

Cover Page

Order ID : Q1062

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q1062-01
Q1062-02
Q1062-03
Q1062-04

Client Sample Number

BP-VPB-190A-TB-20250107
VPB190A-HYD-20250107
BP-VPB-190A-EB-20250107
BP-VPB-190A-GW-898-900

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: 1/14/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1062

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: MAYUR DESAI

Date: 01/14/2025

LAB CHRONICLE

OrderID:	Q1062	OrderDate:	1/10/2025 11:26:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	M11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1062-01	BP-VPB-190A-TB-202 50107	Water	VOCMS Group1	8260-Low	01/07/25		01/15/25	01/09/25
Q1062-02	VPB190A-HYD-20250 107	Water	VOCMS Group1	8260-Low	01/07/25		01/15/25	01/09/25
Q1062-03	BP-VPB-190A-EB-202 50107	Water	VOCMS Group1	8260-Low	01/07/25		01/15/25	01/09/25
Q1062-04	BP-VPB-190A-GW-898 -900	Water	VOCMS Group1	8260-Low	01/07/25		01/15/25	01/09/25

Hit Summary Sheet
SW-846

SDG No.: Q1062

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	BP-VPB-190A-EB-20250107								
Q1062-03	BP-VPB-190A-EB-	Water	Tetrahydrofuran	* 6.50	J	1.20		5.00	ug/L
			Total Tics :	6.50					
			Total Concentration:	6.50					



QC SUMMARY

Surrogate Summary

SDG No.: **Q1062**

Client: **Tetra Tech NUS, Inc.**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1062-01	BP-VPB-190A-TB-20250107	1,2-Dichloroethane-d4	50	53.3	107	81	118
		Dibromofluoromethane	50	50.0	100	80	119
		Toluene-d8	50	48.9	98	89	112
		4-Bromofluorobenzene	50	45.9	92	85	114
Q1062-02	VPB190A-HYD-20250107	1,2-Dichloroethane-d4	50	53.2	106	81	118
		Dibromofluoromethane	50	51.4	103	80	119
		Toluene-d8	50	49.2	98	89	112
		4-Bromofluorobenzene	50	47.0	94	85	114
Q1062-03	BP-VPB-190A-EB-20250107	1,2-Dichloroethane-d4	50	53.6	107	81	118
		Dibromofluoromethane	50	50.8	102	80	119
		Toluene-d8	50	50.0	100	89	112
		4-Bromofluorobenzene	50	46.6	93	85	114
Q1062-04	BP-VPB-190A-GW-898-900	1,2-Dichloroethane-d4	50	52.8	106	81	118
		Dibromofluoromethane	50	52.0	104	80	119
		Toluene-d8	50	49.3	99	89	112
		4-Bromofluorobenzene	50	46.3	93	85	114
VN0115WBL01	VN0115WBL01	1,2-Dichloroethane-d4	50	55.1	110	81	118
		Dibromofluoromethane	50	51.9	104	80	119
		Toluene-d8	50	50.1	100	89	112
		4-Bromofluorobenzene	50	49.0	98	85	114
VN0115WBS01	VN0115WBS01	1,2-Dichloroethane-d4	50	47.6	95	81	118
		Dibromofluoromethane	50	48.5	97	80	119
		Toluene-d8	50	50.4	101	89	112
		4-Bromofluorobenzene	50	49.5	99	85	114
VN0115WBSD0	VN0115WBSD01	1,2-Dichloroethane-d4	50	48.9	98	81	118
		Dibromofluoromethane	50	49.3	99	80	119
		Toluene-d8	50	50.1	100	89	112
		4-Bromofluorobenzene	50	50.4	101	85	114

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1062

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VN085450.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0115WBS01	Chloromethane	20	18.5	ug/L	93			50	139	
	Vinyl chloride	20	18.2	ug/L	91			58	137	
	Bromomethane	20	18.5	ug/L	93			53	141	
	Chloroethane	20	17.8	ug/L	89			60	138	
	Trichlorofluoromethane	20	18.7	ug/L	94			65	141	
	1,1,2-Trichlorotrifluoroethane	20	19.0	ug/L	95			70	136	
	1,1-Dichloroethene	20	18.6	ug/L	93			71	131	
	Acetone	100	87.7	ug/L	88			39	160	
	Carbon disulfide	20	17.4	ug/L	87			64	133	
	Methyl tert-butyl Ether	20	18.7	ug/L	94			71	124	
	Methylene Chloride	20	18.2	ug/L	91			74	124	
	trans-1,2-Dichloroethene	20	18.6	ug/L	93			75	124	
	1,1-Dichloroethane	20	18.6	ug/L	93			77	125	
	2-Butanone	100	91.2	ug/L	91			56	143	
	Carbon Tetrachloride	20	19.0	ug/L	95			72	136	
	cis-1,2-Dichloroethene	20	18.7	ug/L	94			78	123	
	Chloroform	20	18.4	ug/L	92			79	124	
	1,1,1-Trichloroethane	20	18.6	ug/L	93			74	131	
	Methylcyclohexane	20	19.8	ug/L	99			72	132	
	Benzene	20	19.2	ug/L	96			79	120	
	1,2-Dichloroethane	20	18.8	ug/L	94			73	128	
	Trichloroethene	20	19.2	ug/L	96			79	123	
	1,2-Dichloropropane	20	18.9	ug/L	95			78	122	
	Bromodichloromethane	20	19.8	ug/L	99			79	125	
	4-Methyl-2-Pentanone	100	95.3	ug/L	95			67	130	
	Toluene	20	20.1	ug/L	101			80	121	
	t-1,3-Dichloropropene	20	19.0	ug/L	95			73	127	
	cis-1,3-Dichloropropene	20	20.0	ug/L	100			75	124	
	1,1,2-Trichloroethane	20	18.9	ug/L	95			80	119	
	2-Hexanone	100	96.5	ug/L	97			57	139	
	Dibromochloromethane	20	19.1	ug/L	96			74	126	
	Tetrachloroethene	20	20.1	ug/L	101			74	129	
	Chlorobenzene	20	19.3	ug/L	97			82	118	
	Ethyl Benzene	20	20.0	ug/L	100			79	121	
	m/p-Xylenes	40	41.3	ug/L	103			80	121	
	o-Xylene	20	20.2	ug/L	101			78	122	
	Styrene	20	20.4	ug/L	102			78	123	
	Bromoform	20	19.8	ug/L	99			66	130	
	Isopropylbenzene	20	20.7	ug/L	104			72	131	
	1,1,2,2-Tetrachloroethane	20	18.5	ug/L	93			71	121	
	1,3-Dichlorobenzene	20	19.6	ug/L	98			80	119	
	1,4-Dichlorobenzene	20	18.7	ug/L	94			79	118	
	1,2-Dichlorobenzene	20	18.9	ug/L	95			80	119	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1062

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VN085451.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0115WBSD01	Chloromethane	20	19.5	ug/L	98	5		50	139	20
	Vinyl chloride	20	19.1	ug/L	96	5		58	137	20
	Bromomethane	20	19.3	ug/L	97	4		53	141	20
	Chloroethane	20	18.5	ug/L	93	4		60	138	20
	Trichlorofluoromethane	20	19.7	ug/L	99	5		65	141	20
	1,1,2-Trichlorotrifluoroethane	20	19.6	ug/L	98	3		70	136	20
	1,1-Dichloroethene	20	19.3	ug/L	97	4		71	131	20
	Acetone	100	94.9	ug/L	95	8		39	160	20
	Carbon disulfide	20	18.1	ug/L	91	4		64	133	20
	Methyl tert-butyl Ether	20	21.1	ug/L	106	12		71	124	20
	Methylene Chloride	20	20.1	ug/L	101	10		74	124	20
	trans-1,2-Dichloroethene	20	19.9	ug/L	100	7		75	124	20
	1,1-Dichloroethane	20	20.0	ug/L	100	7		77	125	20
	2-Butanone	100	97.6	ug/L	98	7		56	143	20
	Carbon Tetrachloride	20	19.9	ug/L	100	5		72	136	20
	cis-1,2-Dichloroethene	20	19.7	ug/L	99	5		78	123	20
	Chloroform	20	20.1	ug/L	101	9		79	124	20
	1,1,1-Trichloroethane	20	19.9	ug/L	100	7		74	131	20
	Methylcyclohexane	20	20.0	ug/L	100	1		72	132	20
	Benzene	20	20.1	ug/L	101	5		79	120	20
	1,2-Dichloroethane	20	20.7	ug/L	104	10		73	128	20
	Trichloroethene	20	20.1	ug/L	101	5		79	123	20
	1,2-Dichloropropane	20	20.2	ug/L	101	6		78	122	20
	Bromodichloromethane	20	20.9	ug/L	104	5		79	125	20
	4-Methyl-2-Pentanone	100	100	ug/L	100	5		67	130	20
	Toluene	20	21.5	ug/L	108	7		80	121	20
	t-1,3-Dichloropropene	20	20.3	ug/L	102	7		73	127	20
	cis-1,3-Dichloropropene	20	21.0	ug/L	105	5		75	124	20
	1,1,2-Trichloroethane	20	20.9	ug/L	104	9		80	119	20
	2-Hexanone	100	100	ug/L	100	3		57	139	20
	Dibromochloromethane	20	20.2	ug/L	101	5		74	126	20
	Tetrachloroethene	20	20.7	ug/L	104	3		74	129	20
	Chlorobenzene	20	19.5	ug/L	98	1		82	118	20
	Ethyl Benzene	20	20.4	ug/L	102	2		79	121	20
	m/p-Xylenes	40	42.5	ug/L	106	3		80	121	20
	o-Xylene	20	20.9	ug/L	104	3		78	122	20
	Styrene	20	20.8	ug/L	104	2		78	123	20
	Bromoform	20	20.6	ug/L	103	4		66	130	20
	Isopropylbenzene	20	20.6	ug/L	103	1		72	131	20
	1,1,2,2-Tetrachloroethane	20	19.0	ug/L	95	2		71	121	20
	1,3-Dichlorobenzene	20	20.1	ug/L	101	3		80	119	20
	1,4-Dichlorobenzene	20	19.1	ug/L	96	2		79	118	20
	1,2-Dichlorobenzene	20	19.0	ug/L	95	0		80	119	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0115WBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1062

SAS No.: Q1062 SDG NO.: Q1062

Lab File ID: VN085449.D

Lab Sample ID: VN0115WBL01

Date Analyzed: 01/15/2025

Time Analyzed: 10:05

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
VN0115WBS01	VN0115WBS01	VN085450.D	01/15/2025
VN0115WBSD01	VN0115WBSD01	VN085451.D	01/15/2025
BP-VPB-190A-GW-898-900	Q1062-04	VN085452.D	01/15/2025
BP-VPB-190A-TB-20250107	Q1062-01	VN085453.D	01/15/2025
BP-VPB-190A-EB-20250107	Q1062-03	VN085454.D	01/15/2025
VPB190A-HYD-20250107	Q1062-02	VN085455.D	01/15/2025

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1062 SAS No.: Q1062 SDG NO.: Q1062
Lab File ID: VN085437.D BFB Injection Date: 01/14/2025
Instrument ID: MSVOA_N BFB Injection Time: 14:22
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	22.3
75	30.0 - 60.0% of mass 95	58
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	1.4 (1.8) 1
174	50.0 - 100.0% of mass 95	76
175	5.0 - 9.0% of mass 174	5.4 (7.1) 1
176	95.0 - 101.0% of mass 174	74.1 (97.4) 1
177	5.0 - 9.0% of mass 176	4.9 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC100	VSTDICC100	VN085438.D	01/14/2025	14:56
VSTDICCC050	VSTDICCC050	VN085439.D	01/14/2025	15:19
VSTDICC020	VSTDICC020	VN085440.D	01/14/2025	15:43
VSTDICC010	VSTDICC010	VN085441.D	01/14/2025	16:07
VSTDICC005	VSTDICC005	VN085442.D	01/14/2025	16:31
VSTDICC001	VSTDICC001	VN085443.D	01/14/2025	17:19



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1062 SAS No.: Q1062 SDG NO.: Q1062
Lab File ID: VN085446.D BFB Injection Date: 01/15/2025
Instrument ID: MSVOA_N BFB Injection Time: 08:25
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	22.1
75	30.0 - 60.0% of mass 95	56.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1.1 (1.5) 1
174	50.0 - 100.0% of mass 95	70.9
175	5.0 - 9.0% of mass 174	5.3 (7.5) 1
176	95.0 - 101.0% of mass 174	70.4 (99.2) 1
177	5.0 - 9.0% of mass 176	4.3 (6.1) 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	VN085447.D	01/15/2025	09:03
VN0115WBL01	VN0115WBL01	VN085449.D	01/15/2025	10:05
VN0115WBS01	VN0115WBS01	VN085450.D	01/15/2025	10:29
VN0115WBSD01	VN0115WBSD01	VN085451.D	01/15/2025	11:02
BP-VPB-190A-GW-898-900	Q1062-04	VN085452.D	01/15/2025	11:26
BP-VPB-190A-TB-20250107	Q1062-01	VN085453.D	01/15/2025	11:50
BP-VPB-190A-EB-20250107	Q1062-03	VN085454.D	01/15/2025	12:14
VPB190A-HYD-20250107	Q1062-02	VN085455.D	01/15/2025	12:37
VSTDCCC050EC	VSTDCCC050	VN085463.D	01/15/2025	15:58

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1062 SAS No.: Q1062 SDG NO.: Q1062
Lab File ID: VN085447.D Date Analyzed: 01/15/2025
Instrument ID: MSVOA_N Time Analyzed: 09:03
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	218273	8.22	358609	9.09	316952	11.86
UPPER LIMIT	436546	8.718	717218	9.594	633904	12.359
LOWER LIMIT	109137	7.718	179305	8.594	158476	11.359
EPA SAMPLE NO.						
BP-VPB-190A-TB-20250107	196038	8.22	355455	9.09	304386	11.87
VPB190A-HYD-20250107	183777	8.22	332391	9.10	293220	11.87
BP-VPB-190A-EB-20250107	185335	8.22	337105	9.10	298295	11.87
BP-VPB-190A-GW-898-900	175474	8.22	316452	9.10	274227	11.87
VN0115WBL01	195111	8.22	360723	9.10	319974	11.86
VN0115WBS01	208834	8.22	350038	9.09	301633	11.87
VN0115WBSD01	188898	8.22	323122	9.10	286298	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: TETR06
 Lab Code: CHEM Case No.: Q1062 SAS No.: Q1062 SDG NO.: Q1062
 Lab File ID: VN085447.D Date Analyzed: 01/15/2025
 Instrument ID: MSVOA_N Time Analyzed: 09:03
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	158347	13.788				
UPPER LIMIT	316694	14.288				
LOWER LIMIT	79173.5	13.288				
EPA SAMPLE NO.						
BP-VPB-190A-TB-20250107	119672	13.79				
VPB190A-HYD-20250107	116419	13.79				
BP-VPB-190A-EB-20250107	117680	13.79				
BP-VPB-190A-GW-898-900	107831	13.79				
VN0115WBL01	130534	13.79				
VN0115WBS01	141189	13.79				
VN0115WBSD01	136502	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

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	01/07/25		
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	01/09/25		
Client Sample ID:	BP-VPB-190A-TB-20250107			SDG No.:	Q1062		
Lab Sample ID:	Q1062-01			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	RXI-624	ID :	0.25	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085453.D	1		01/15/25 11:50	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	BP-VPB-190A-TB-20250107	SDG No.:	Q1062
Lab Sample ID:	Q1062-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085453.D	1		01/15/25 11:50	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.3		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	48.9		89 - 112		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.9		85 - 114		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	196000	8.218				
540-36-3	1,4-Difluorobenzene	355000	9.094				
3114-55-4	Chlorobenzene-d5	304000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	120000	13.788				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	01/07/25
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	01/09/25
Client Sample ID:	BP-VPB-190A-TB-20250107			SDG No.:	Q1062
Lab Sample ID:	Q1062-01			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085453.D	1		01/15/25 11:50	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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\VN011525\
Data File : VN085453.D
Acq On : 15 Jan 2025 11:50
Operator : JC\MD
Sample : Q1062-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

Quant Time: Jan 16 00:55:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	196038	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	355455	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	304386	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	119672	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	168714	53.315	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	106.640%	
35) Dibromofluoromethane	8.159	113	123337	50.015	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	100.040%	
50) Toluene-d8	10.565	98	428715	48.931	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	97.860%	
62) 4-Bromofluorobenzene	12.847	95	137686	45.939	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	91.880%	

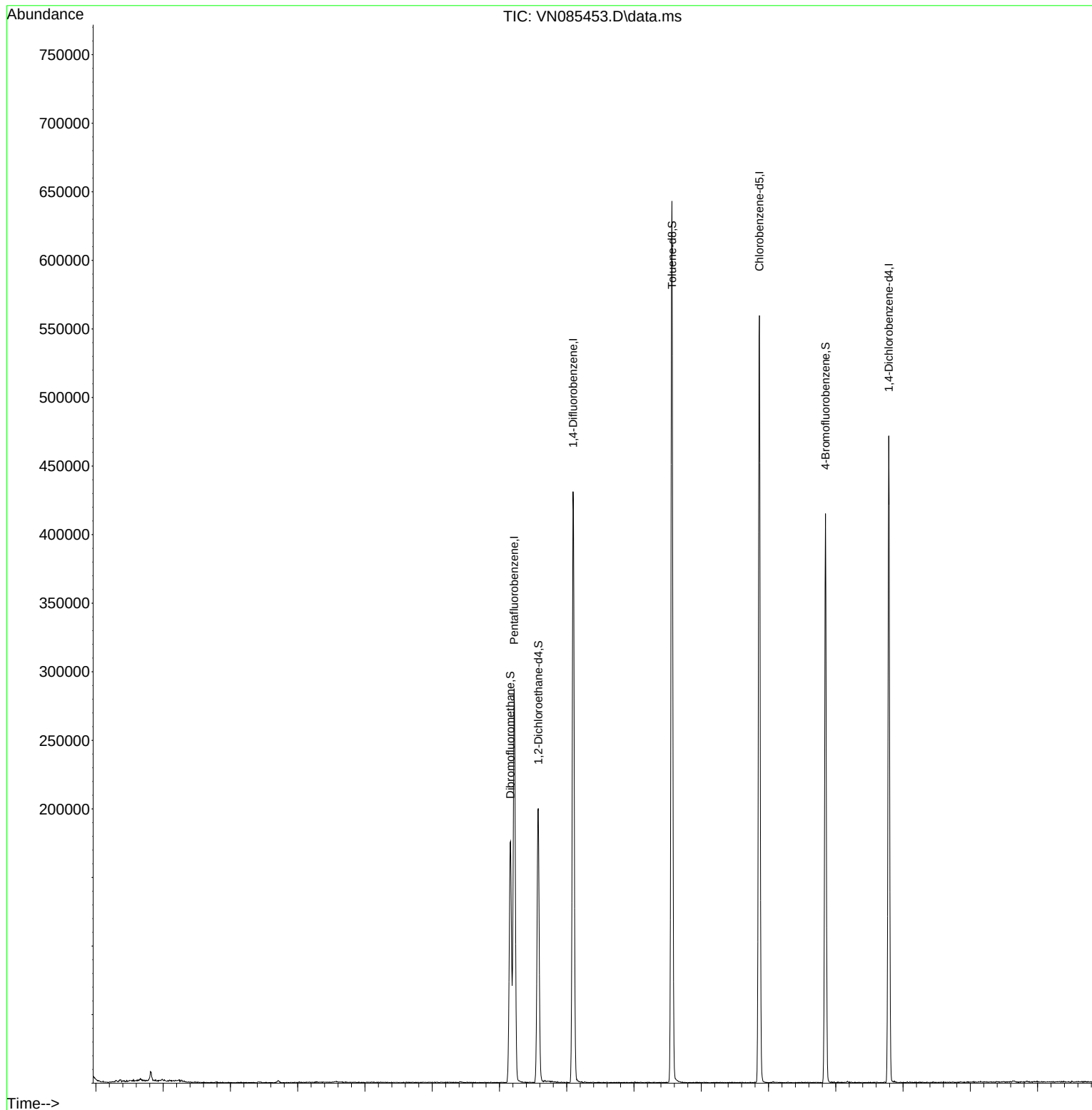
Target Compounds	Qvalue

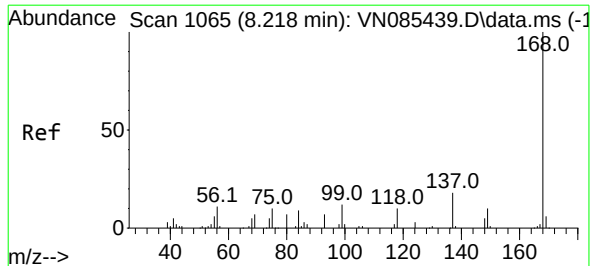
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085453.D
Acq On : 15 Jan 2025 11:50
Operator : JC\MD
Sample : Q1062-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

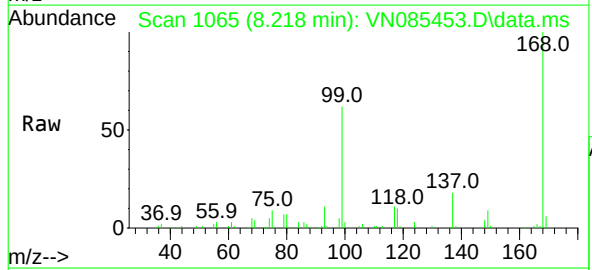
Quant Time: Jan 16 00:55:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration



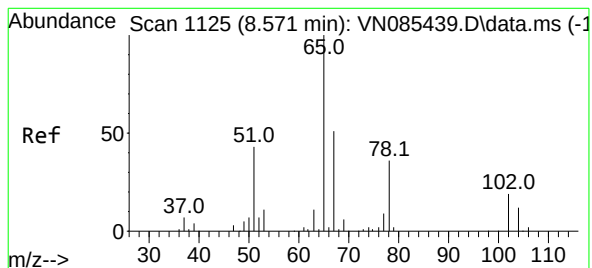
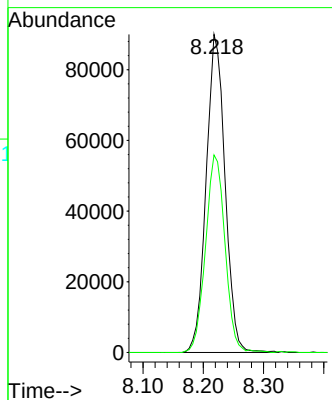
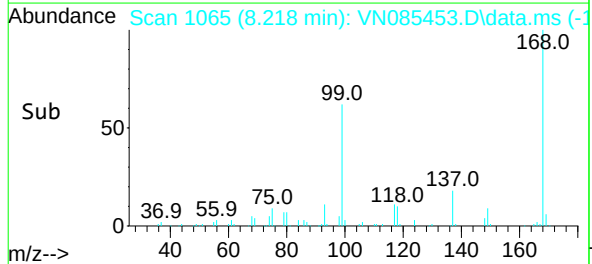


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085453.D
Acq: 15 Jan 2025 11:50

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

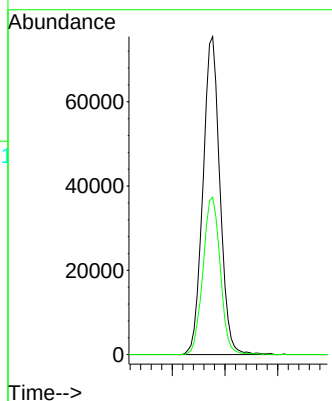
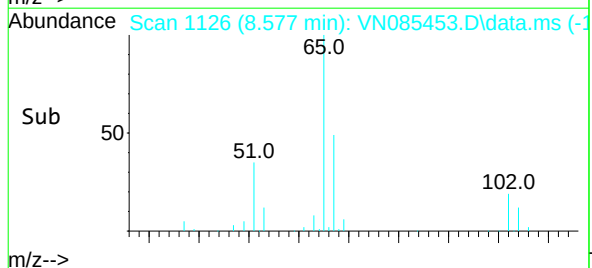
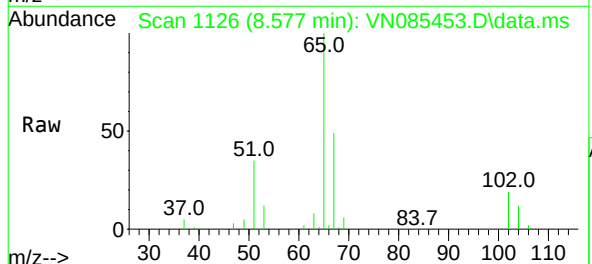


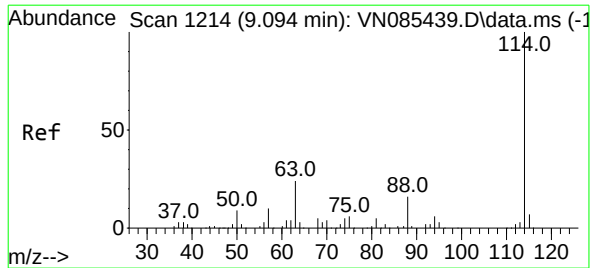
Tgt Ion:168 Resp: 196038
Ion Ratio Lower Upper
168 100
99 62.1 53.6 80.4



#33
1,2-Dichloroethane-d4
Concen: 53.315 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085453.D
Acq: 15 Jan 2025 11:50

Tgt Ion: 65 Resp: 168714
Ion Ratio Lower Upper
65 100
67 50.4 0.0 101.6

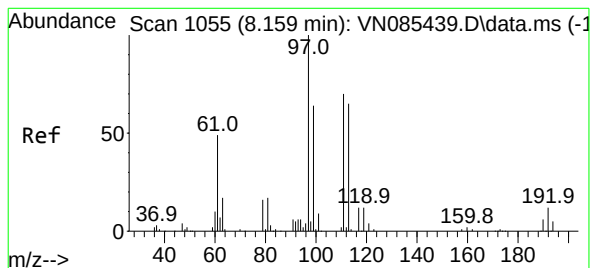
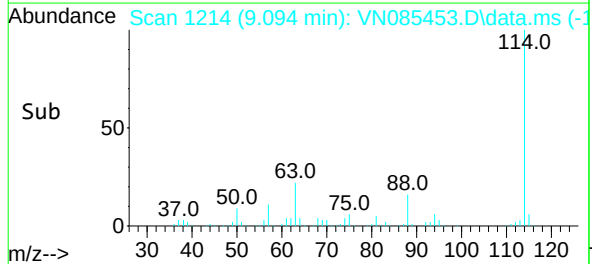
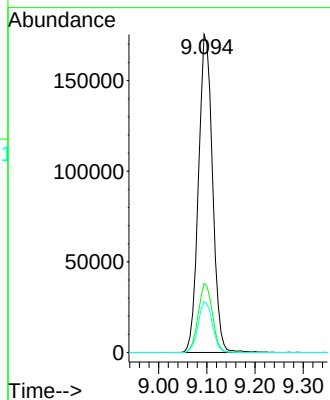
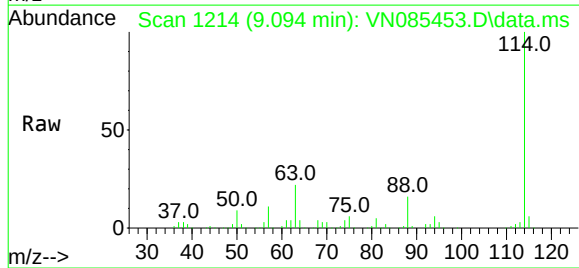




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.000 min
Lab File: VN085453.D
Acq: 15 Jan 2025 11:50

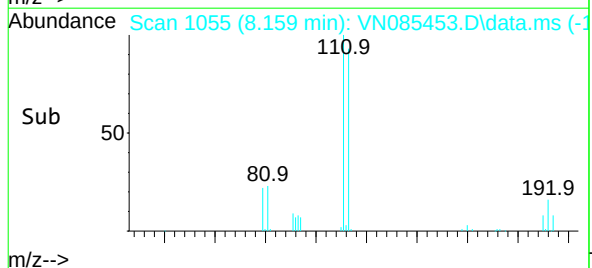
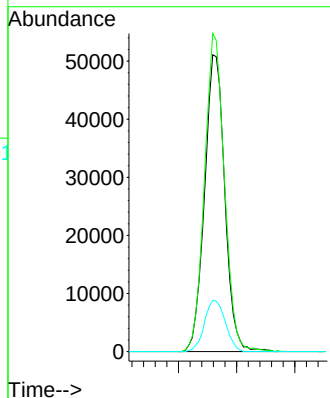
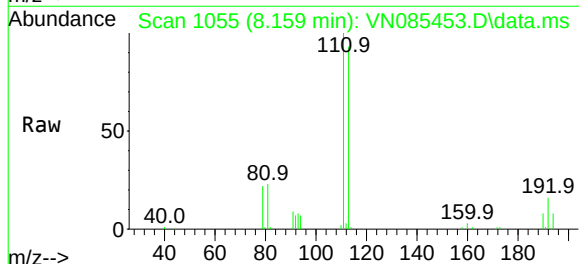
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

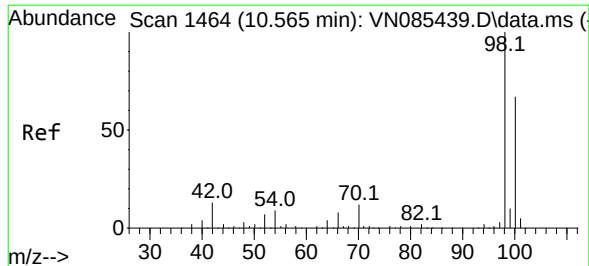
Tgt Ion:	114	Resp:	355455
Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	47.6
88	16.0	0.0	32.6



#35
Dibromofluoromethane
Concen: 50.015 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VN085453.D
Acq: 15 Jan 2025 11:50

Tgt Ion:	113	Resp:	123337
Ion	Ratio	Lower	Upper
113	100		
111	105.8	82.7	124.1
192	17.9	14.3	21.5





#50

Toluene-d8

Concen: 48.931 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085453.D

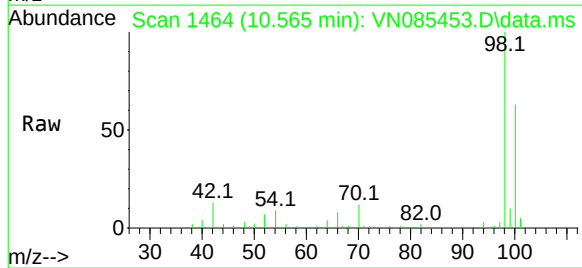
Acq: 15 Jan 2025 11:50

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190A-TB-20250107

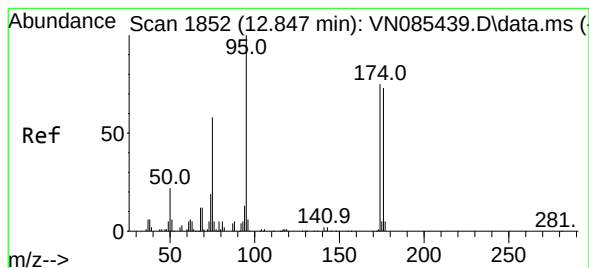
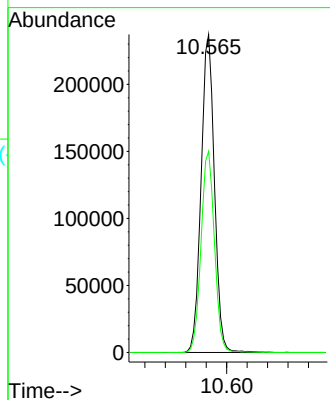
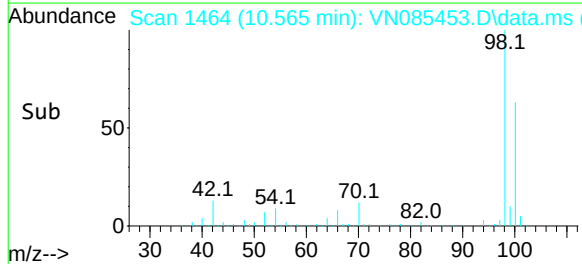


Tgt Ion: 98 Resp: 428715

Ion Ratio Lower Upper

98 100

100 63.8 52.2 78.4



#62

4-Bromofluorobenzene

Concen: 45.939 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN085453.D

Acq: 15 Jan 2025 11:50

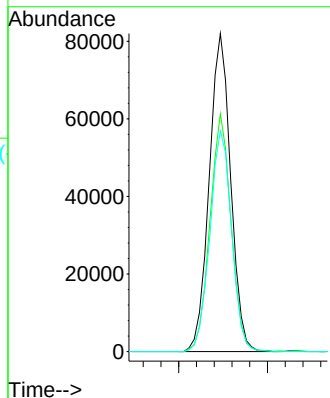
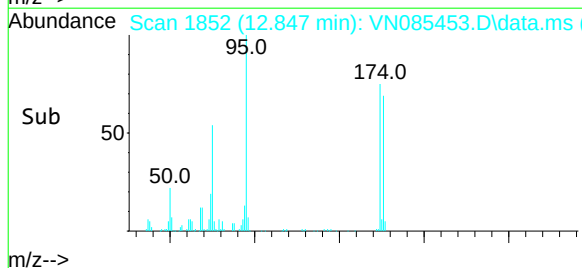
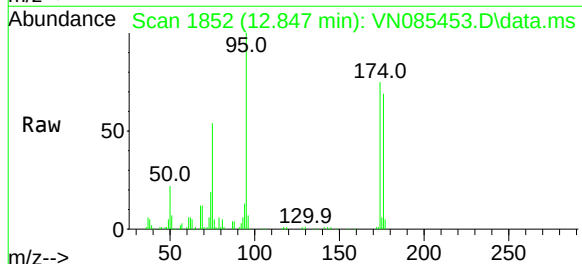
Tgt Ion: 95 Resp: 137686

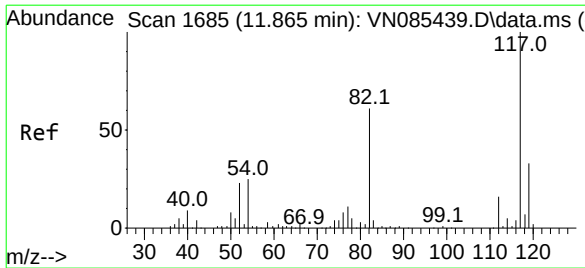
Ion Ratio Lower Upper

95 100

174 73.4 0.0 145.0

176 70.1 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 16

Delta R.T. -0.000 min

Lab File: VN085453.D

Acq: 15 Jan 2025 11:50

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190A-TB-20250107

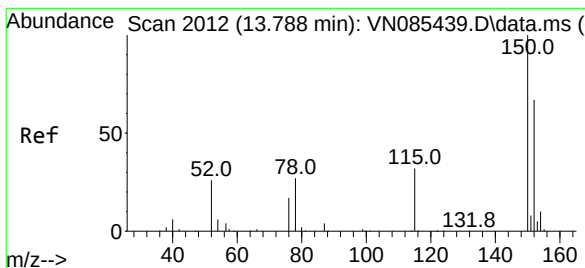
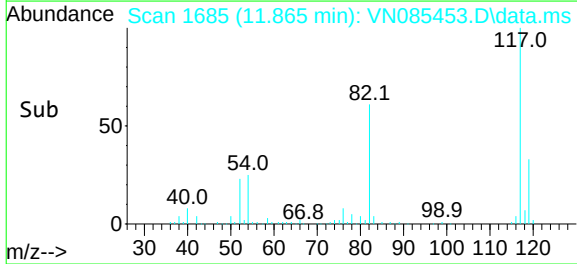
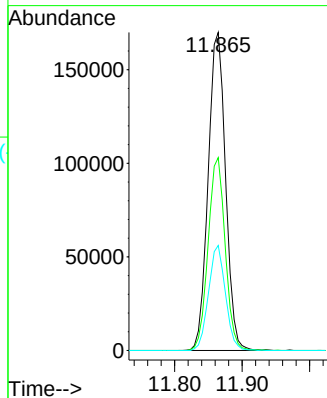
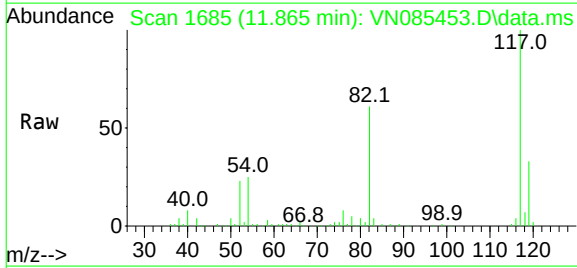
Tgt Ion:117 Resp: 304386

Ion Ratio Lower Upper

117 100

82 60.6 48.6 72.8

119 33.0 26.6 39.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085453.D

Acq: 15 Jan 2025 11:50

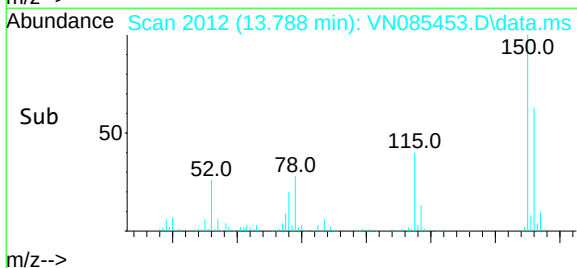
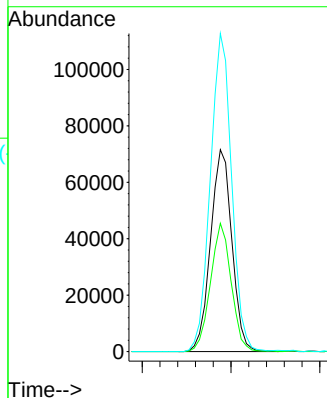
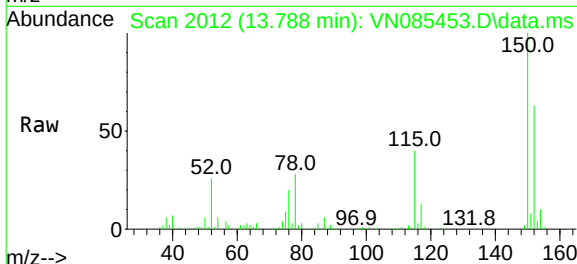
Tgt Ion:152 Resp: 119672

Ion Ratio Lower Upper

152 100

115 61.4 31.1 93.3

150 156.9 0.0 343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085453.D
 Acq On : 15 Jan 2025 11:50
 Operator : JC\MD
 Sample : Q1062-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-190A-TB-20250107

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Title : SW846 8260

Signal : TIC: VN085453.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.812	139	146	152	rBV3	6669	12224	1.04%	0.202%
2	8.165	1045	1056	1060	rBV	175882	418329	35.69%	6.925%
3	8.218	1060	1065	1077	rVB	286274	633544	54.05%	10.487%
4	8.577	1116	1126	1139	rBV	200025	449865	38.38%	7.447%
5	9.094	1206	1214	1225	rBV	430827	877627	74.88%	14.528%
6	10.565	1455	1464	1480	rBV	642571	1172114	100.00%	19.403%
7	11.865	1677	1685	1696	rBV	559123	1001040	85.40%	16.571%
8	12.847	1845	1852	1862	rBV	414847	697222	59.48%	11.541%
9	13.788	2004	2012	2021	rBV	471684	779063	66.47%	12.896%

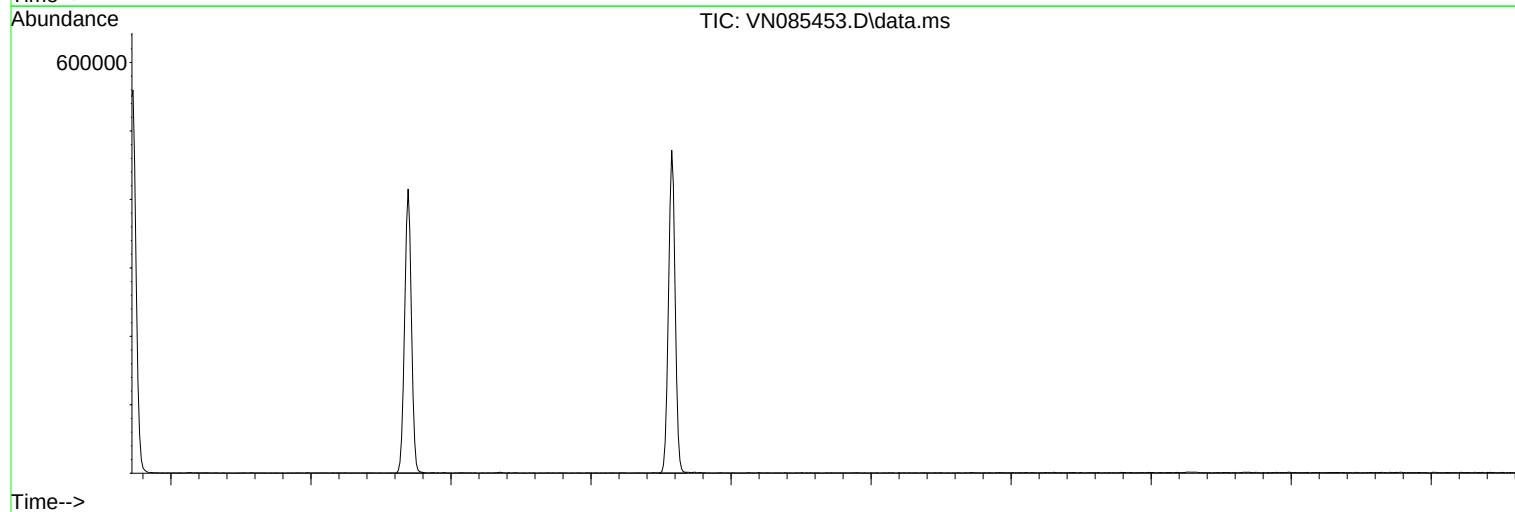
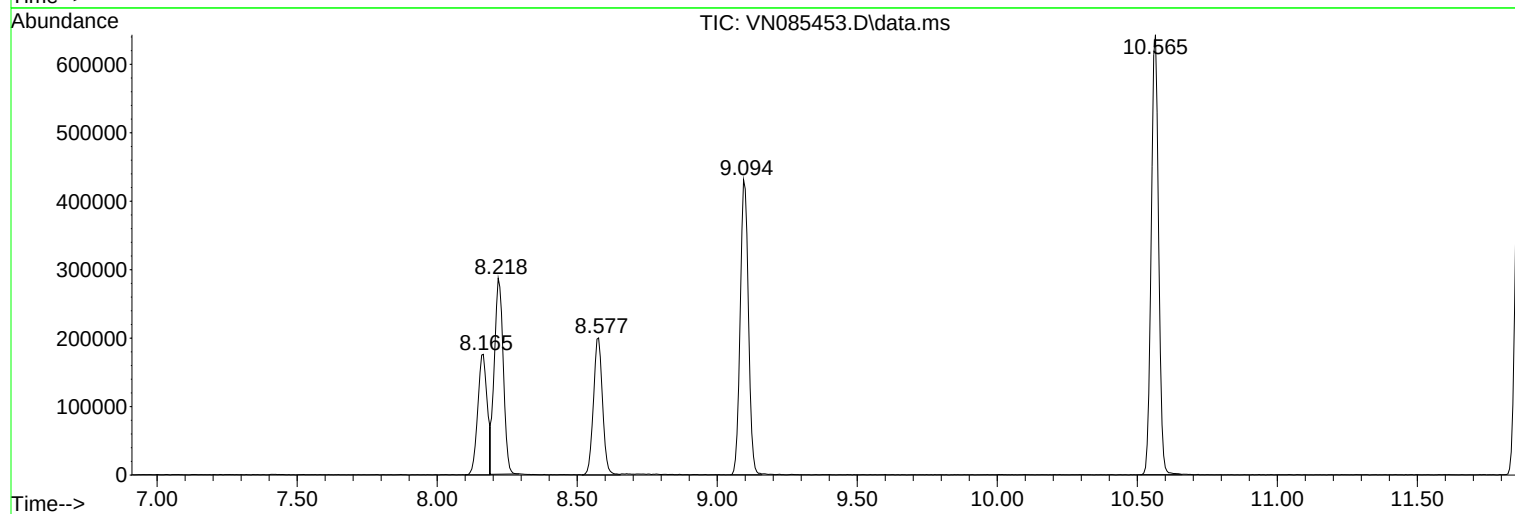
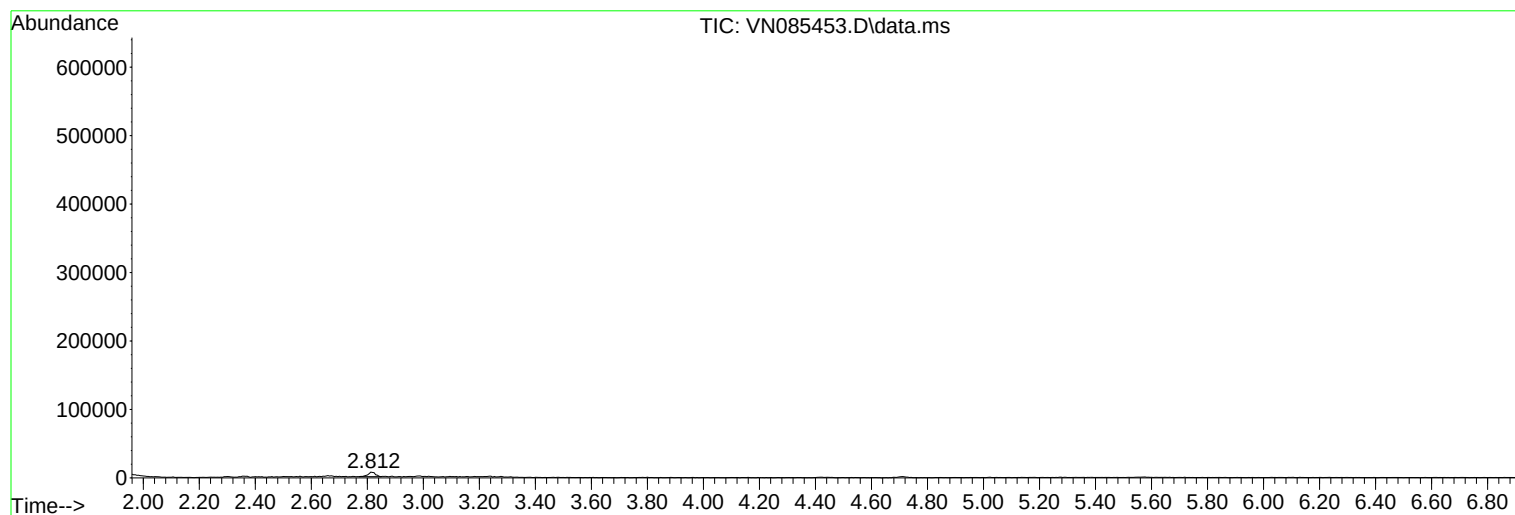
Sum of corrected areas: 6041028

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085453.D
Acq On : 15 Jan 2025 11:50
Operator : JC\MD
Sample : Q1062-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085453.D
Acq On : 15 Jan 2025 11:50
Operator : JC\MD
Sample : Q1062-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085453.D
Acq On : 15 Jan 2025 11:50
Operator : JC\MD
Sample : Q1062-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	01/07/25	
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	01/09/25	
Client Sample ID:	VPB190A-HYD-20250107			SDG No.:	Q1062	
Lab Sample ID:	Q1062-02			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085455.D	1		01/15/25 12:37	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	VPB190A-HYD-20250107	SDG No.:	Q1062
Lab Sample ID:	Q1062-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085455.D	1		01/15/25 12:37	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.2		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	49.2		89 - 112		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.1		85 - 114		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	184000	8.224				
540-36-3	1,4-Difluorobenzene	332000	9.1				
3114-55-4	Chlorobenzene-d5	293000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	116000	13.788				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/07/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	01/09/25	
Client Sample ID:	VPB190A-HYD-20250107		SDG No.:	Q1062	
Lab Sample ID:	Q1062-02		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085455.D	1		01/15/25 12:37	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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\VN011525\
Data File : VN085455.D
Acq On : 15 Jan 2025 12:37
Operator : JC\MD
Sample : Q1062-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

Quant Time: Jan 16 00:56:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	183777	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	332391	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	293220	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	116419	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	157915	53.232	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	106.460%
35) Dibromofluoromethane	8.165	113	118493	51.385	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.780%
50) Toluene-d8	10.565	98	403278	49.222	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.440%
62) 4-Bromofluorobenzene	12.847	95	131868	47.051	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	94.100%

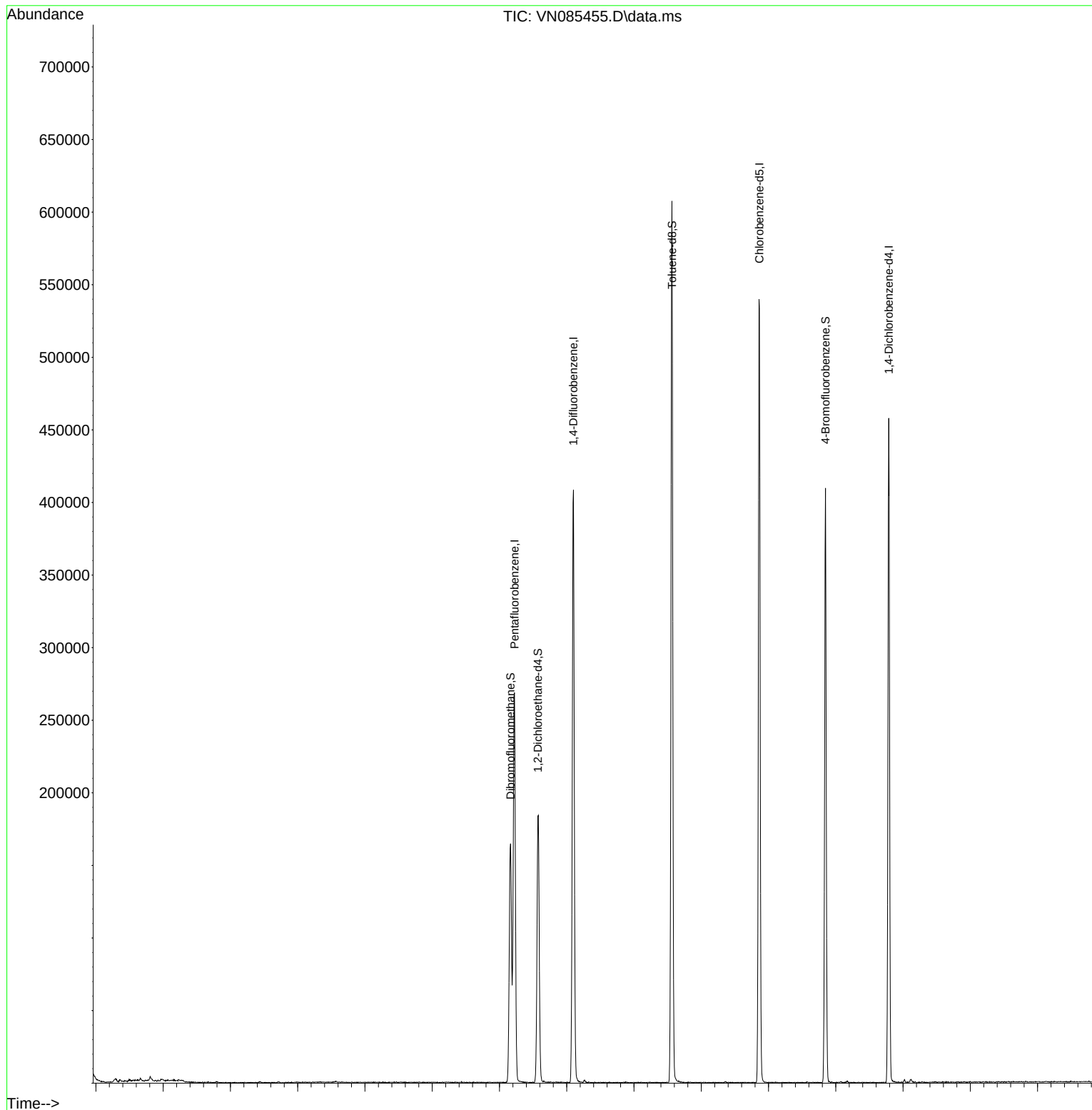
Target Compounds	Qvalue

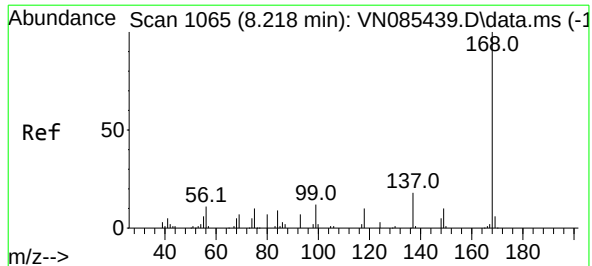
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085455.D
Acq On : 15 Jan 2025 12:37
Operator : JC\MD
Sample : Q1062-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

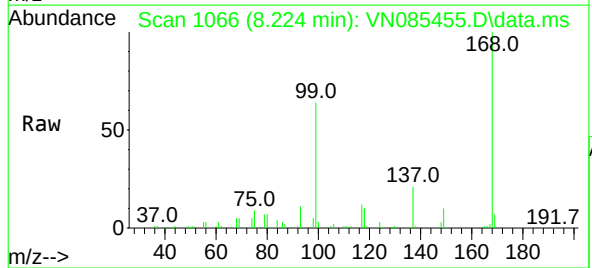
Quant Time: Jan 16 00:56:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration



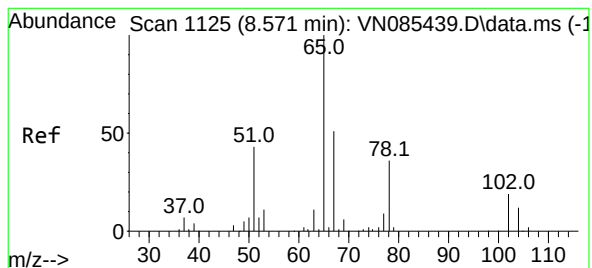
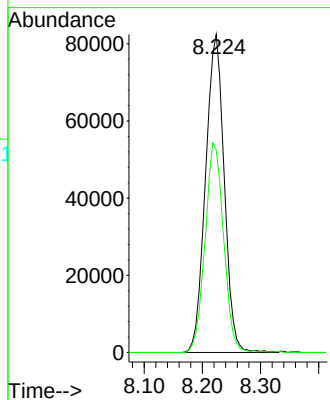
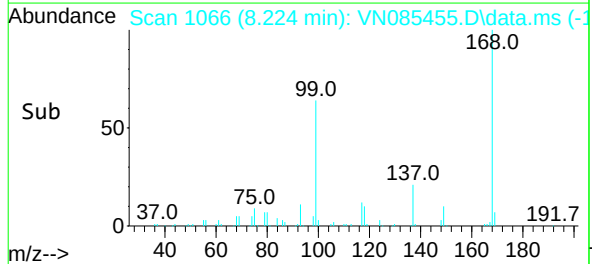


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085455.D
Acq: 15 Jan 2025 12:37

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

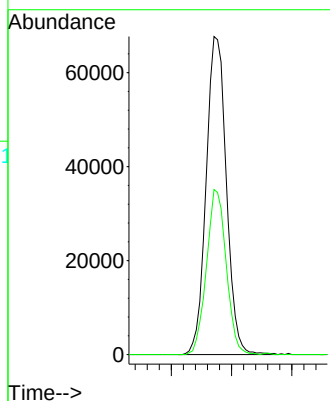
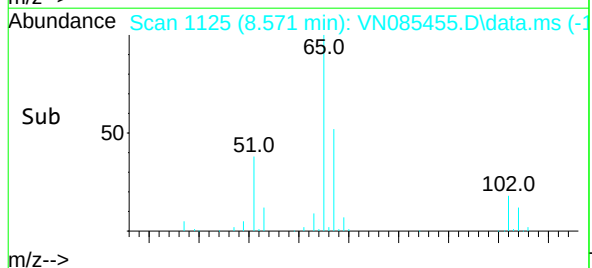
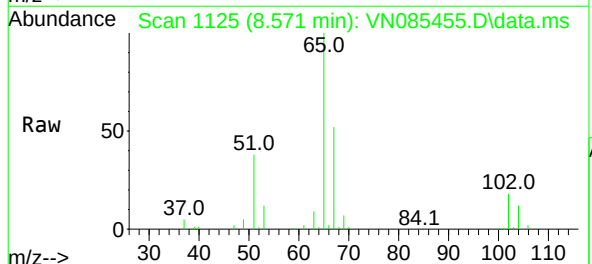


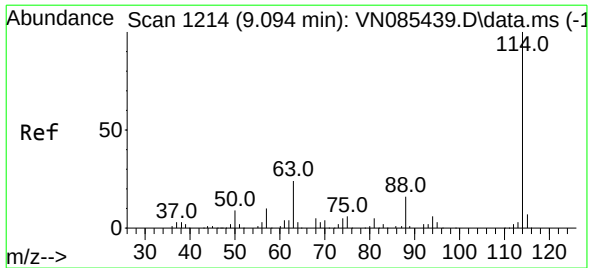
Tgt Ion:168 Resp: 183777
Ion Ratio Lower Upper
168 100
99 63.6 53.6 80.4



#33
1,2-Dichloroethane-d4
Concen: 53.232 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. 0.000 min
Lab File: VN085455.D
Acq: 15 Jan 2025 12:37

Tgt Ion: 65 Resp: 157915
Ion Ratio Lower Upper
65 100
67 50.5 0.0 101.6

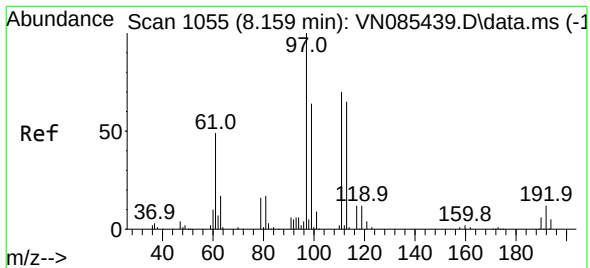
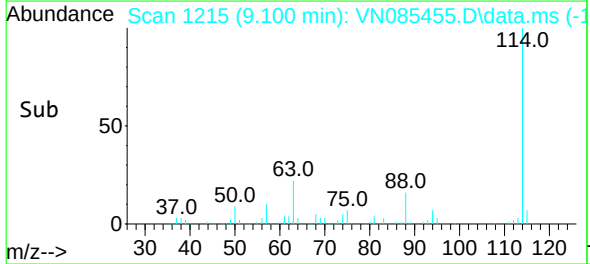
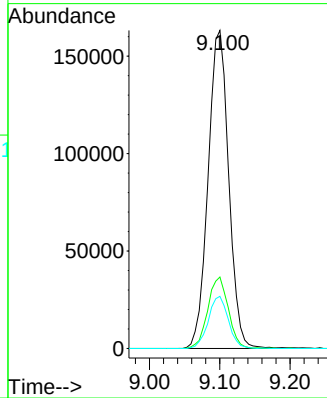
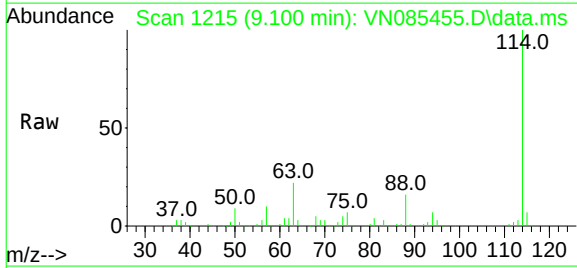




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VN085455.D
Acq: 15 Jan 2025 12:37

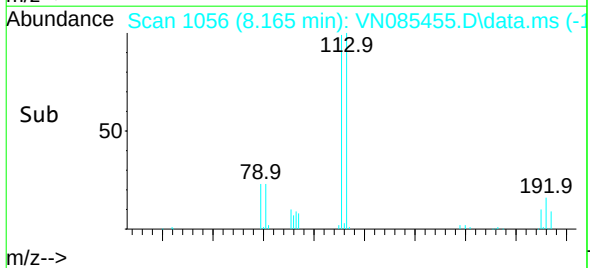
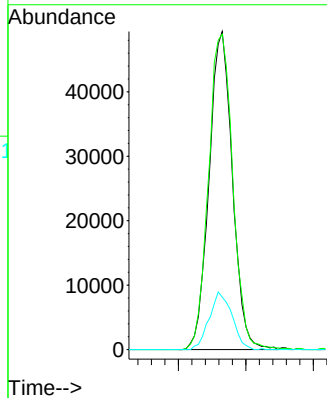
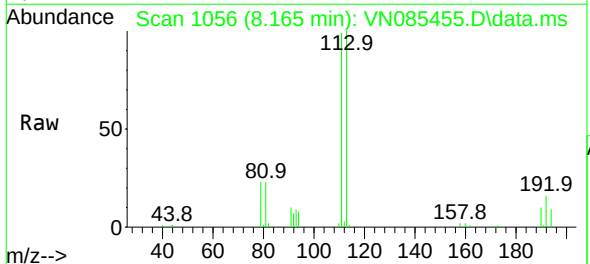
Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

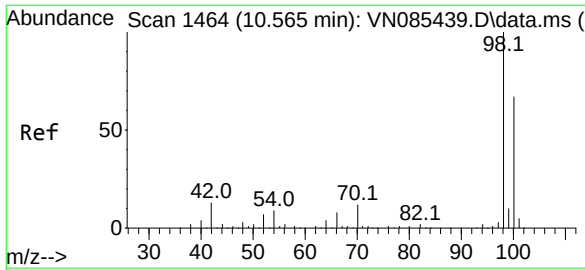
Tgt Ion:	114	Resp:	332391
Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	47.6
88	16.4	0.0	32.6



#35
Dibromofluoromethane
Concen: 51.385 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085455.D
Acq: 15 Jan 2025 12:37

Tgt Ion:	113	Resp:	118493
Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.7	124.1
192	17.6	14.3	21.5





#50

Toluene-d8

Concen: 49.222 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085455.D

Acq: 15 Jan 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

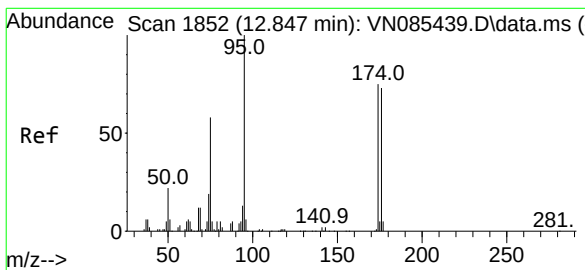
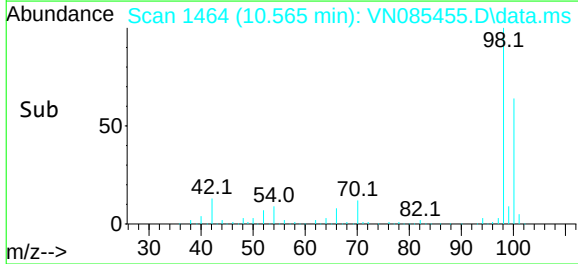
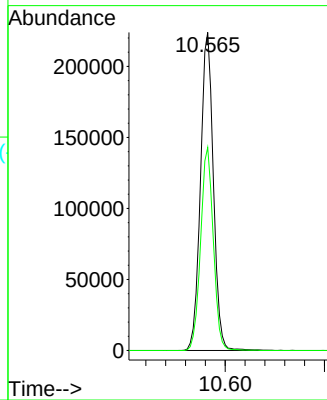
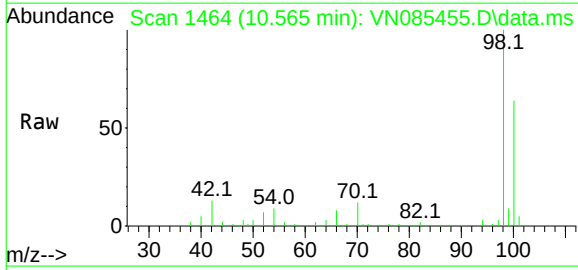
VPB190A-HYD-20250107

Tgt Ion: 98 Resp: 403278

Ion Ratio Lower Upper

98 100

100 63.1 52.2 78.4



#62

4-Bromofluorobenzene

Concen: 47.051 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN085455.D

Acq: 15 Jan 2025 12:37

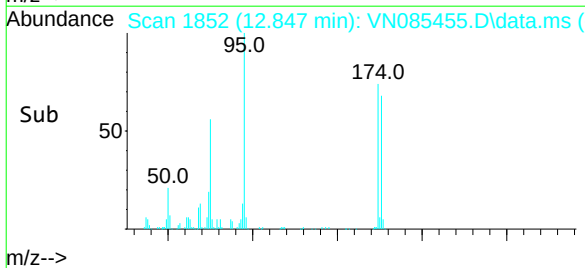
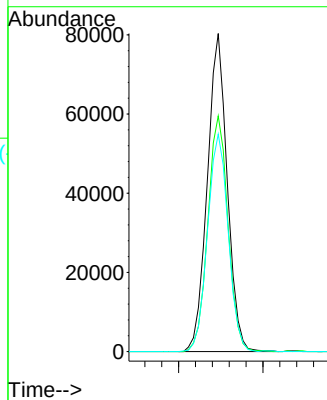
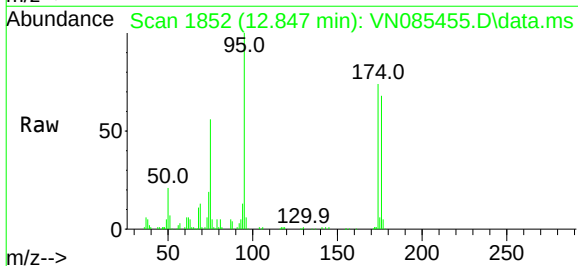
Tgt Ion: 95 Resp: 131868

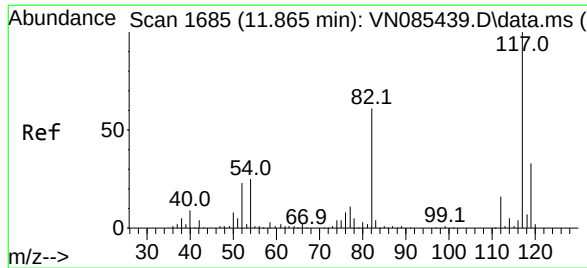
Ion Ratio Lower Upper

95 100

174 75.1 0.0 145.0

176 70.6 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN085455.D

Acq: 15 Jan 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VPB190A-HYD-20250107

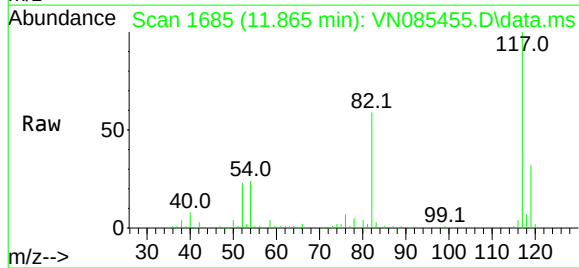
Tgt Ion:117 Resp: 293220

Ion Ratio Lower Upper

117 100

82 58.7 48.6 72.8

119 32.3 26.6 39.8



Abundance

11.865

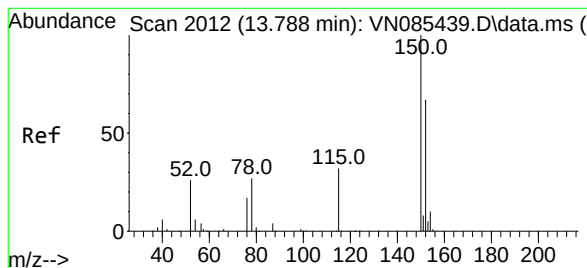
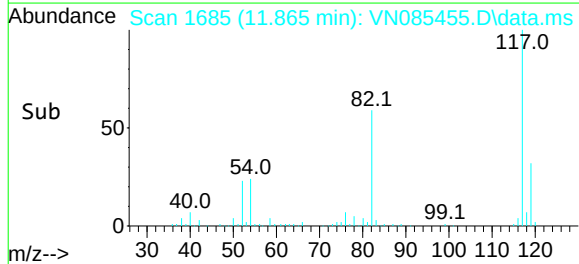
150000

100000

50000

0

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN085455.D

Acq: 15 Jan 2025 12:37

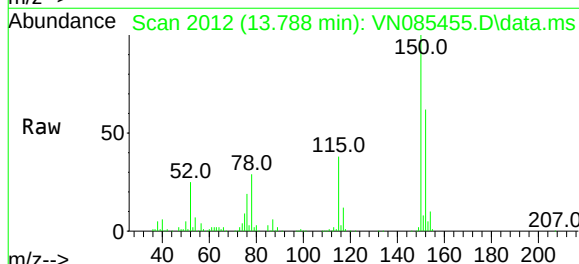
Tgt Ion:152 Resp: 116419

Ion Ratio Lower Upper

152 100

115 61.9 31.1 93.3

150 158.7 0.0 343.6



Abundance

100000

80000

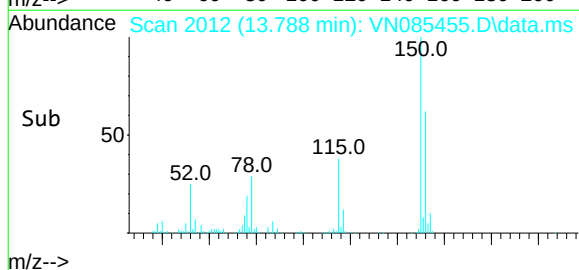
60000

40000

20000

0

Time-->



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085455.D
Acq On : 15 Jan 2025 12:37
Operator : JC\MD
Sample : Q1062-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M

Title : SW846 8260

Signal : TIC: VN085455.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.165	1044	1056	1060	rBV	164657	396665	36.23%	6.878%
2	8.224	1060	1066	1078	rVB	267916	606613	55.41%	10.519%
3	8.577	1115	1126	1138	rBV2	184168	427451	39.05%	7.412%
4	9.100	1205	1215	1229	rBV	408227	833891	76.17%	14.460%
5	10.565	1455	1464	1480	rBV	607078	1094727	100.00%	18.983%
6	11.859	1676	1684	1699	rBV	539546	967457	88.37%	16.776%
7	12.847	1843	1852	1860	rBV	409546	677593	61.90%	11.749%
8	13.788	2005	2012	2024	rBV	457866	762624	69.66%	13.224%

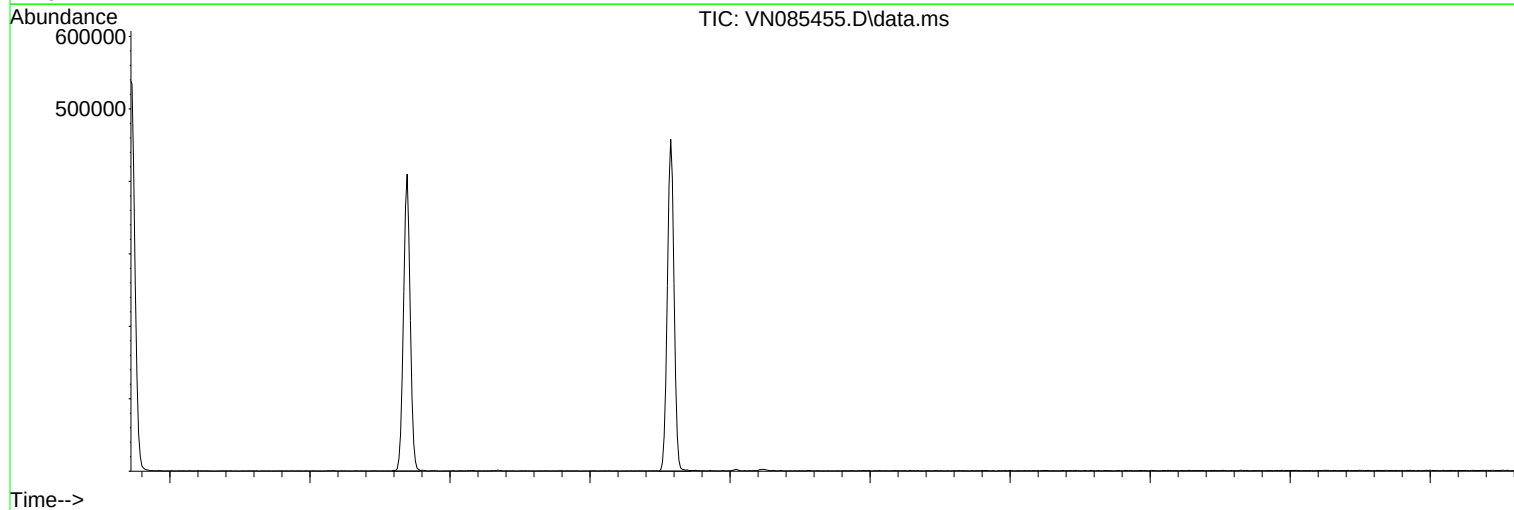
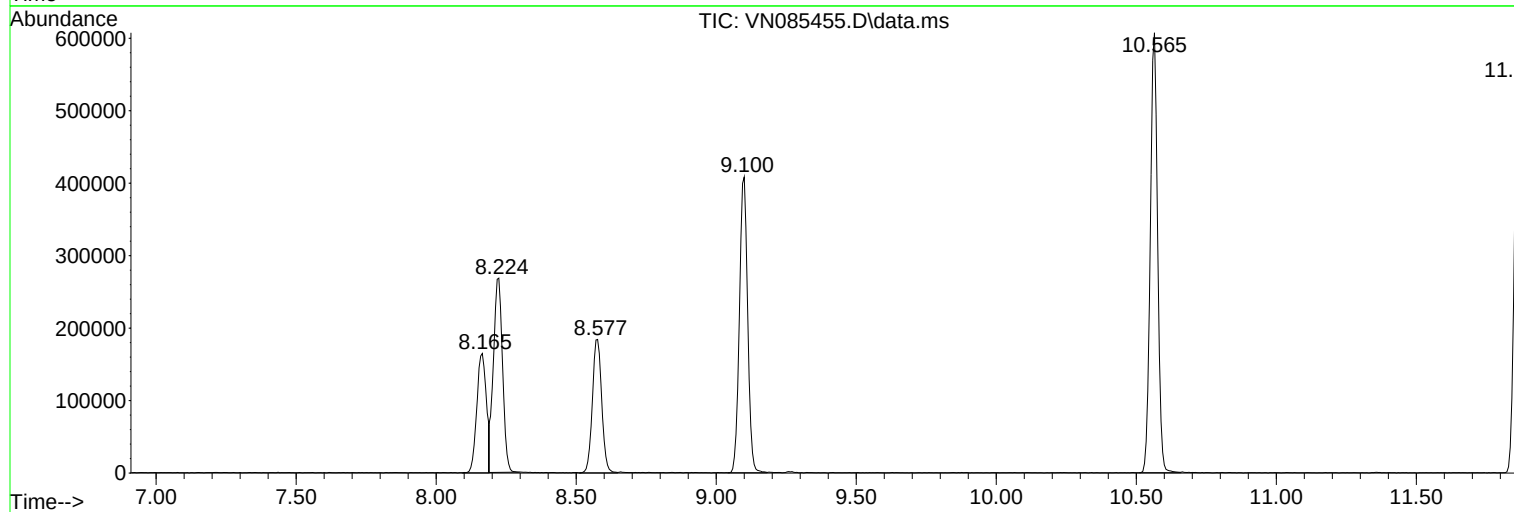
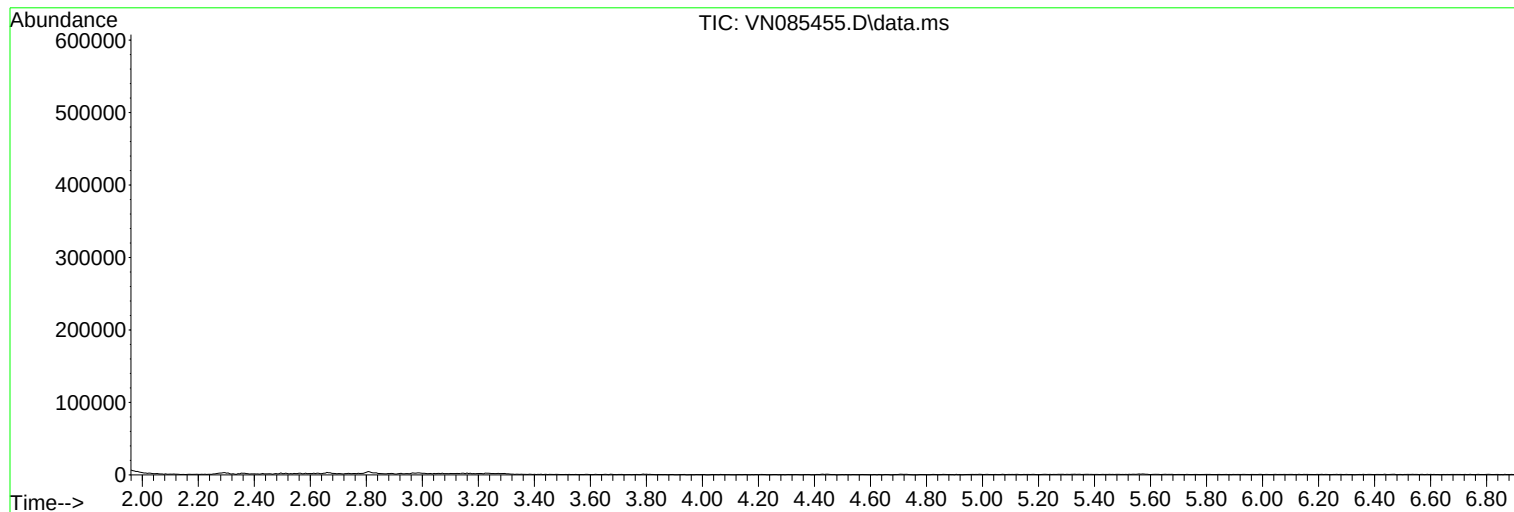
Sum of corrected areas: 5767021

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085455.D
Acq On : 15 Jan 2025 12:37
Operator : JC\MD
Sample : Q1062-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085455.D
Acq On : 15 Jan 2025 12:37
Operator : JC\MD
Sample : Q1062-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085455.D
Acq On : 15 Jan 2025 12:37
Operator : JC\MD
Sample : Q1062-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	01/07/25		
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	01/09/25		
Client Sample ID:	BP-VPB-190A-EB-20250107			SDG No.:	Q1062		
Lab Sample ID:	Q1062-03			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	RXI-624	ID :	0.25	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085454.D	1		01/15/25 12:14	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	01/07/25		
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	01/09/25		
Client Sample ID:	BP-VPB-190A-EB-20250107			SDG No.:	Q1062		
Lab Sample ID:	Q1062-03			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	RXI-624	ID :	0.25	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085454.D	1		01/15/25 12:14	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.6		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.0		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.6		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	185000	8.224				
540-36-3	1,4-Difluorobenzene	337000	9.1				
3114-55-4	Chlorobenzene-d5	298000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	118000	13.788				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	BP-VPB-190A-EB-20250107	SDG No.:	Q1062
Lab Sample ID:	Q1062-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085454.D	1		01/15/25 12:14	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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\VN011525\
Data File : VN085454.D
Acq On : 15 Jan 2025 12:14
Operator : JC\MD
Sample : Q1062-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

Quant Time: Jan 16 00:56:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

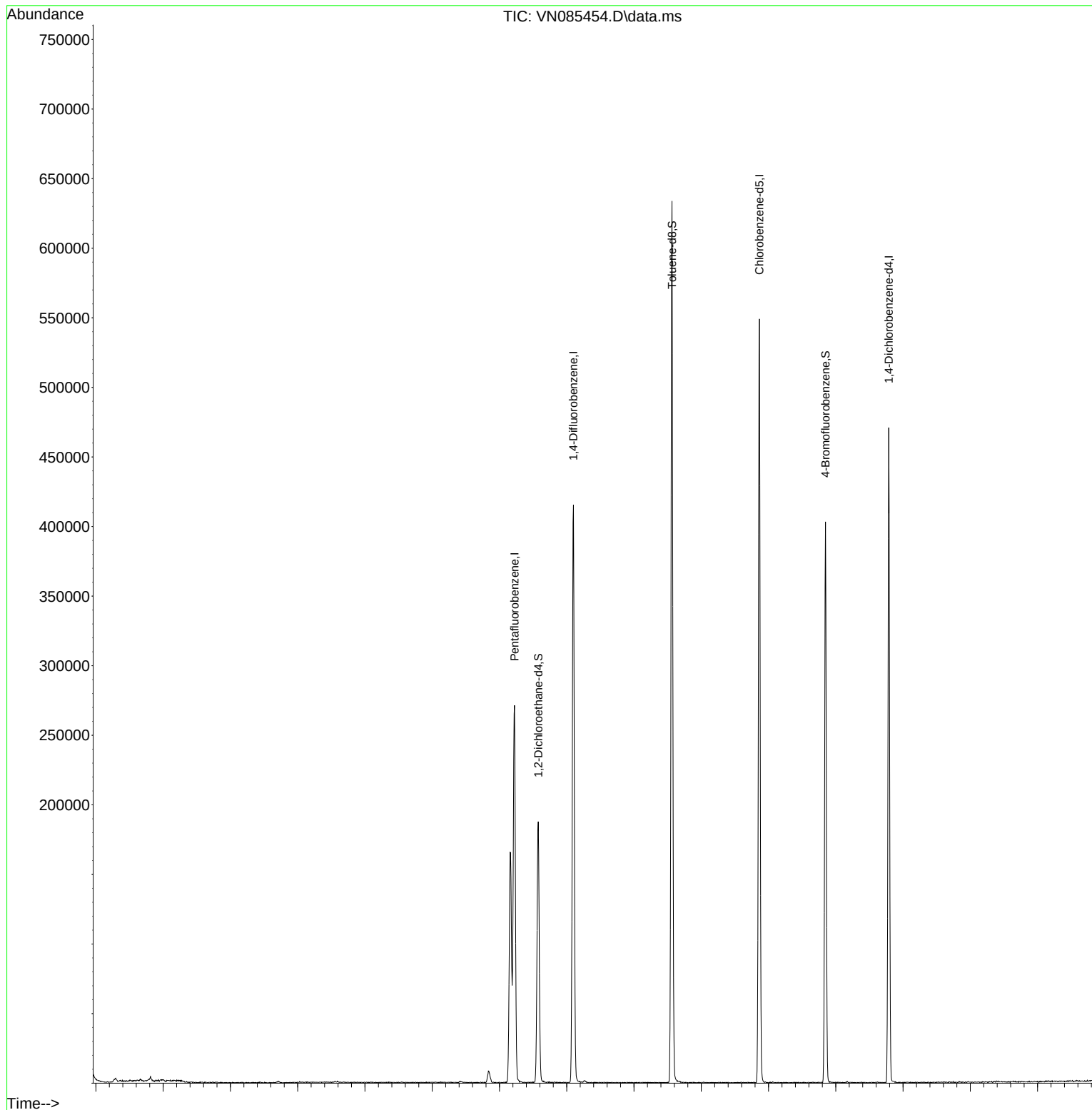
Internal Standards						
1) Pentafluorobenzene	8.224	168	185335	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	337105	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	298295	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	117680	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	160466	53.637	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 107.280%		
35) Dibromofluoromethane	8.159	113	118687	50.750	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 101.500%		
50) Toluene-d8	10.565	98	415115	49.958	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 99.920%		
62) 4-Bromofluorobenzene	12.847	95	132424	46.589	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 93.180%		
Target Compounds						
29) Tetrahydrofuran	7.835	42	5881	6.521	ug/l	Qvalue 97

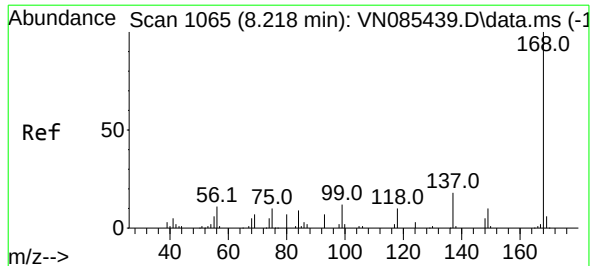
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085454.D
Acq On : 15 Jan 2025 12:14
Operator : JC\MD
Sample : Q1062-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

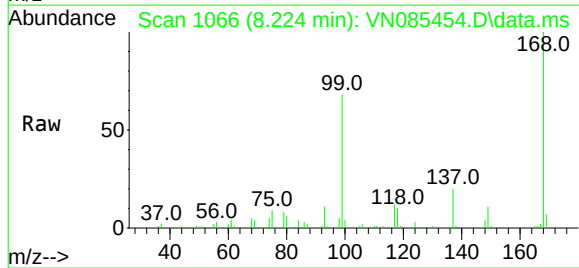
Quant Time: Jan 16 00:56:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration



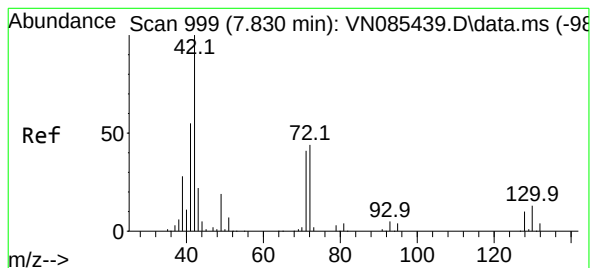
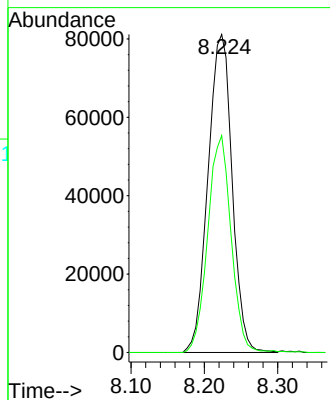
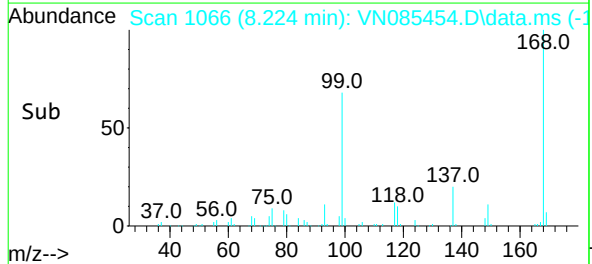


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085454.D
Acq: 15 Jan 2025 12:14

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

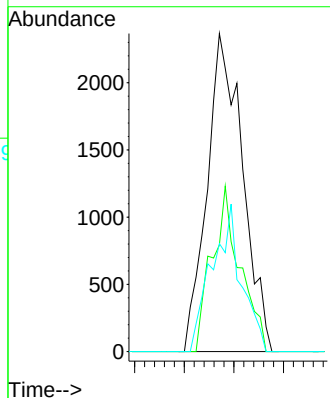
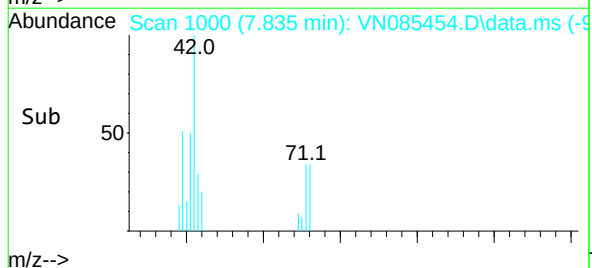
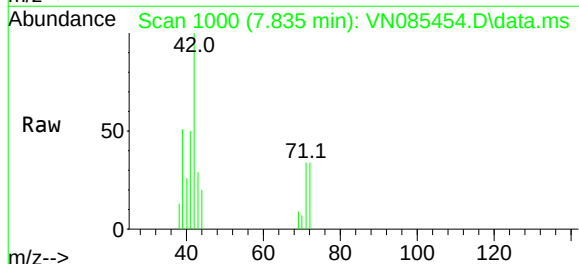


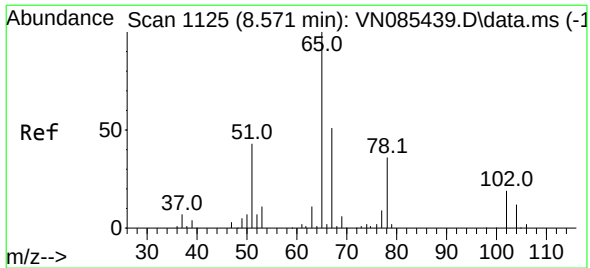
Tgt Ion: 168 Resp: 185335
Ion Ratio Lower Upper
168 100
99 68.2 53.6 80.4



#29
Tetrahydrofuran
Concen: 6.521 ug/l
RT: 7.835 min Scan# 1000
Delta R.T. 0.006 min
Lab File: VN085454.D
Acq: 15 Jan 2025 12:14

Tgt Ion: 42 Resp: 5881
Ion Ratio Lower Upper
42 100
72 41.1 34.2 51.2
71 38.2 32.5 48.7





#33

1,2-Dichloroethane-d4

Concen: 53.637 ug/l

RT: 8.577 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085454.D

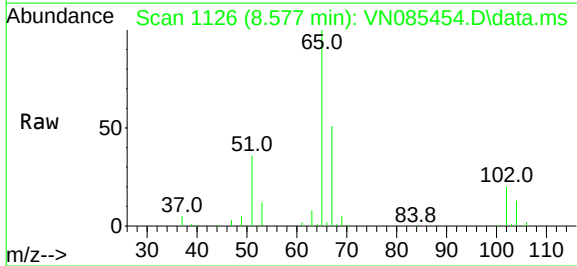
Acq: 15 Jan 2025 12:14

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190A-EB-20250107

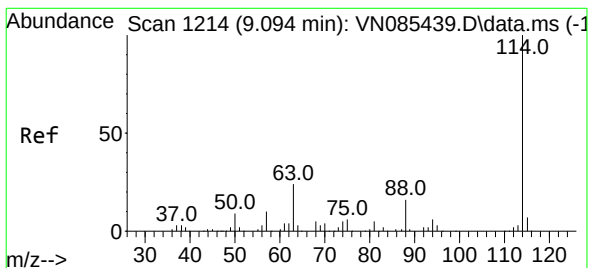
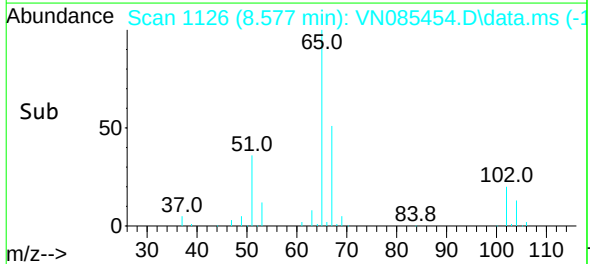
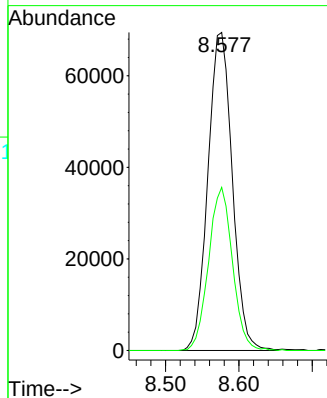


Tgt Ion: 65 Resp: 160466

Ion Ratio Lower Upper

65 100

67 50.3 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085454.D

Acq: 15 Jan 2025 12:14

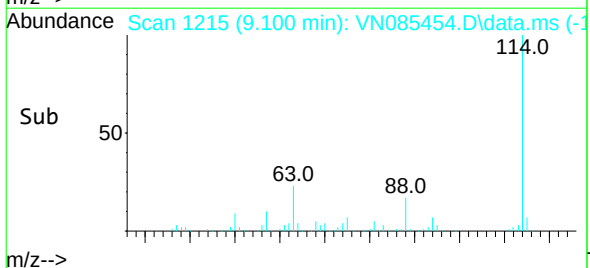
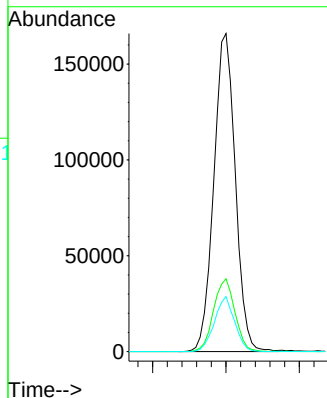
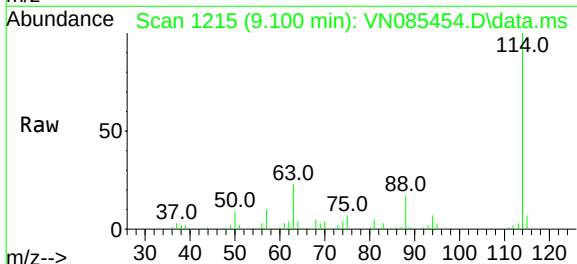
Tgt Ion: 114 Resp: 337105

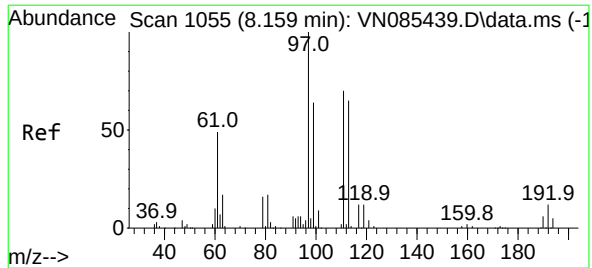
Ion Ratio Lower Upper

114 100

63 22.9 0.0 47.6

88 17.3 0.0 32.6





#35

Dibromofluoromethane

Concen: 50.750 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VN085454.D

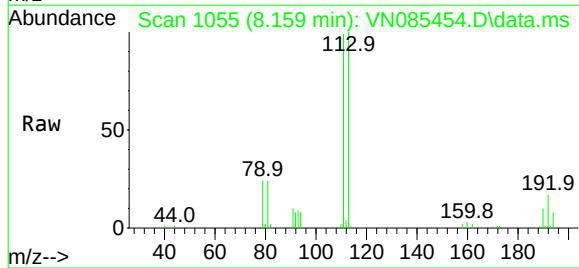
Acq: 15 Jan 2025 12:14

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190A-EB-20250107



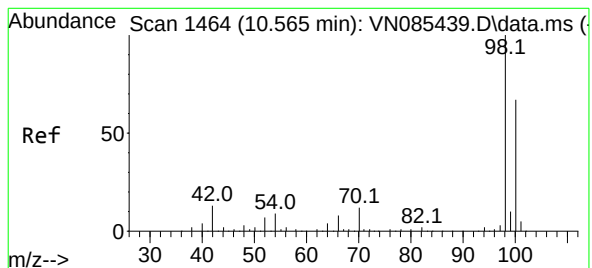
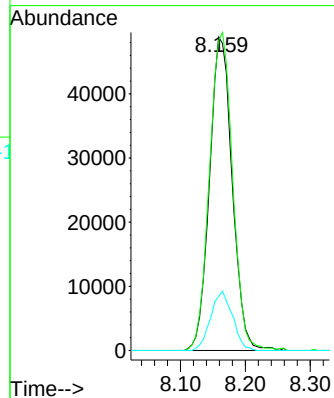
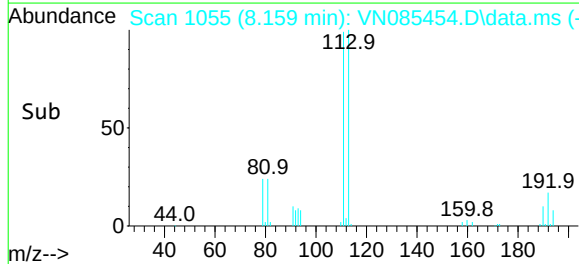
Tgt Ion: 113 Resp: 118687

Ion Ratio Lower Upper

113 100

111 103.8 82.7 124.1

192 18.2 14.3 21.5



#50

Toluene-d8

Concen: 49.958 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085454.D

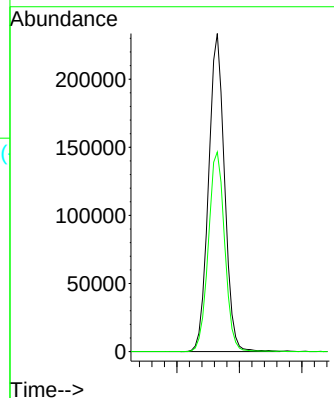
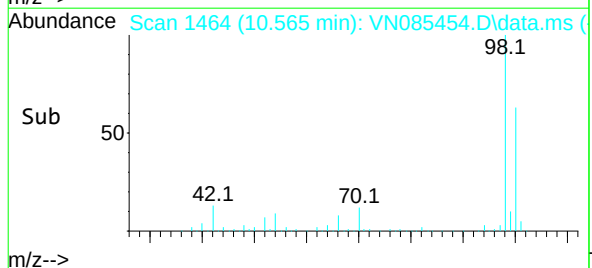
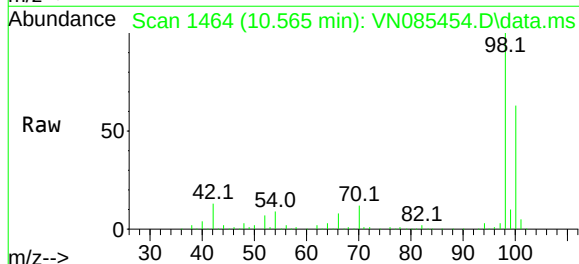
Acq: 15 Jan 2025 12:14

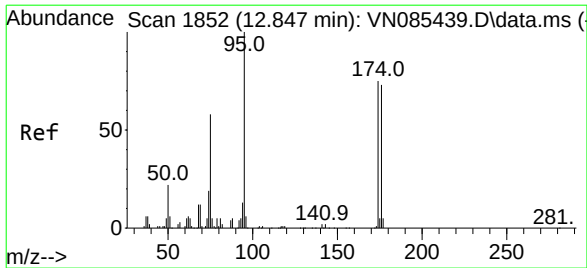
Tgt Ion: 98 Resp: 415115

Ion Ratio Lower Upper

98 100

100 64.2 52.2 78.4

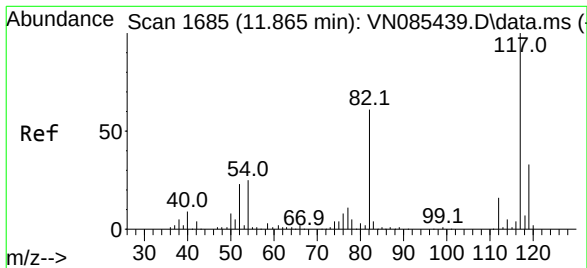
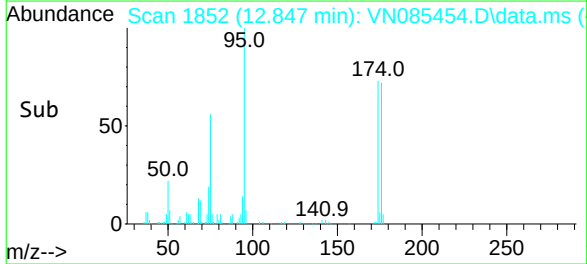
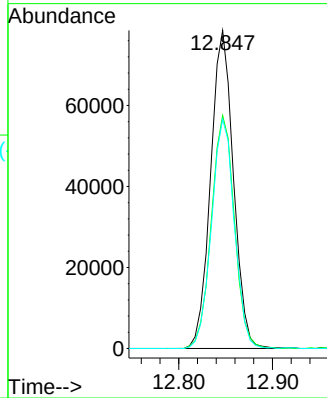
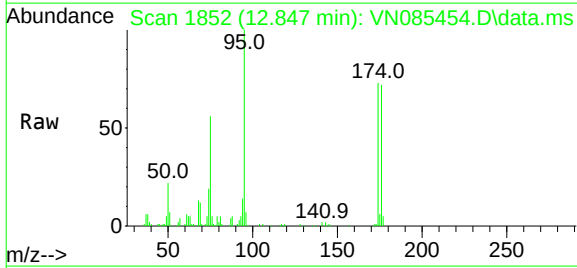




#62
4-Bromofluorobenzene
Concen: 46.589 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085454.D
Acq: 15 Jan 2025 12:14

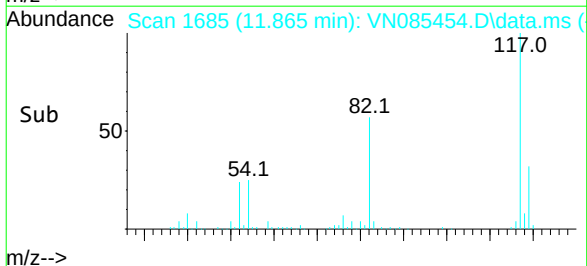
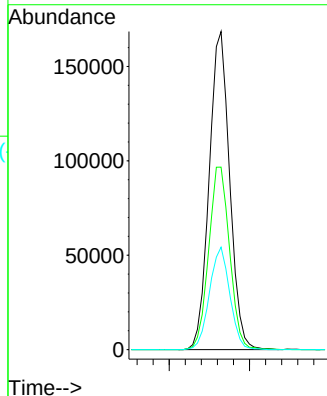
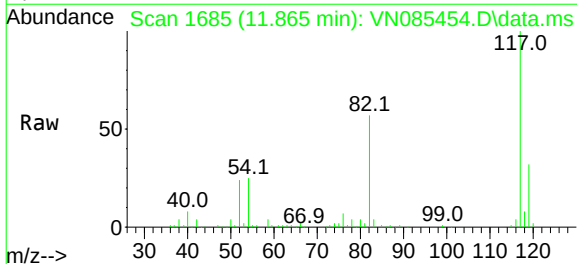
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

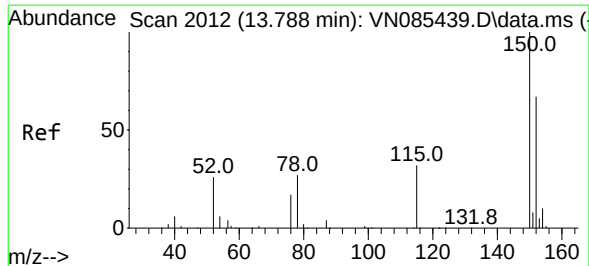
Tgt Ion	Ratio	Lower	Upper
95	100		
174	74.1	0.0	145.0
176	72.4	0.0	142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085454.D
Acq: 15 Jan 2025 12:14

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.4	48.6	72.8
119	32.2	26.6	39.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN085454.D

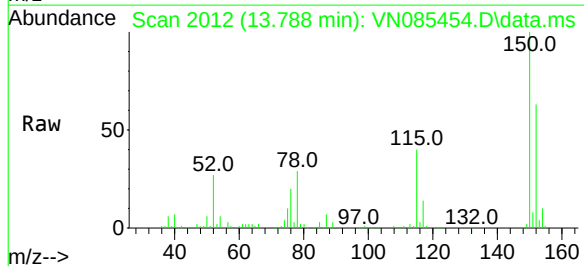
Acq: 15 Jan 2025 12:14

Instrument :

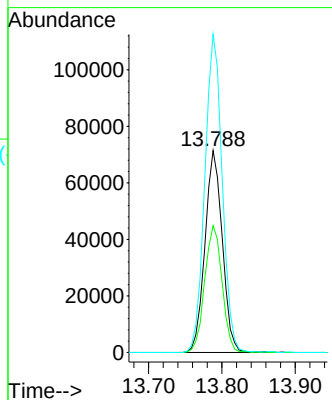
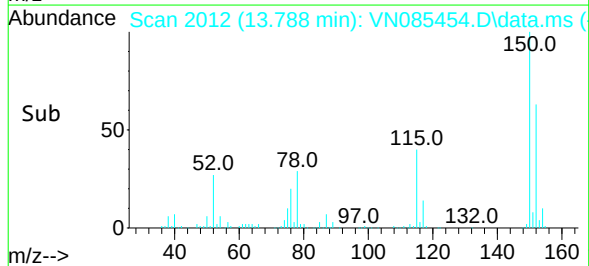
MSVOA_N

ClientSampleId :

BP-VPB-190A-EB-20250107



Tgt Ion:	152	Resp:	117680
Ion	Ratio	Lower	Upper
152	100		
115	62.7	31.1	93.3
150	157.4	0.0	343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085454.D
Acq On : 15 Jan 2025 12:14
Operator : JC\MD
Sample : Q1062-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Title : SW846 8260

Signal : TIC: VN085454.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.835	992	1000	1011	rBV4	8508	22583	1.98%	0.385%
2	8.159	1046	1055	1060	rBV	165500	398963	35.07%	6.797%
3	8.224	1060	1066	1079	rVB	270836	614082	53.98%	10.462%
4	8.577	1116	1126	1139	rBV	187250	425831	37.43%	7.255%
5	9.100	1204	1215	1230	rBV	415156	845739	74.34%	14.409%
6	10.565	1455	1464	1477	rBV	633282	1137700	100.00%	19.383%
7	11.865	1676	1685	1698	rBV	549003	977351	85.91%	16.651%
8	12.847	1845	1852	1862	rBV	402935	679332	59.71%	11.574%
9	13.788	2005	2012	2028	rBV	470615	768078	67.51%	13.086%

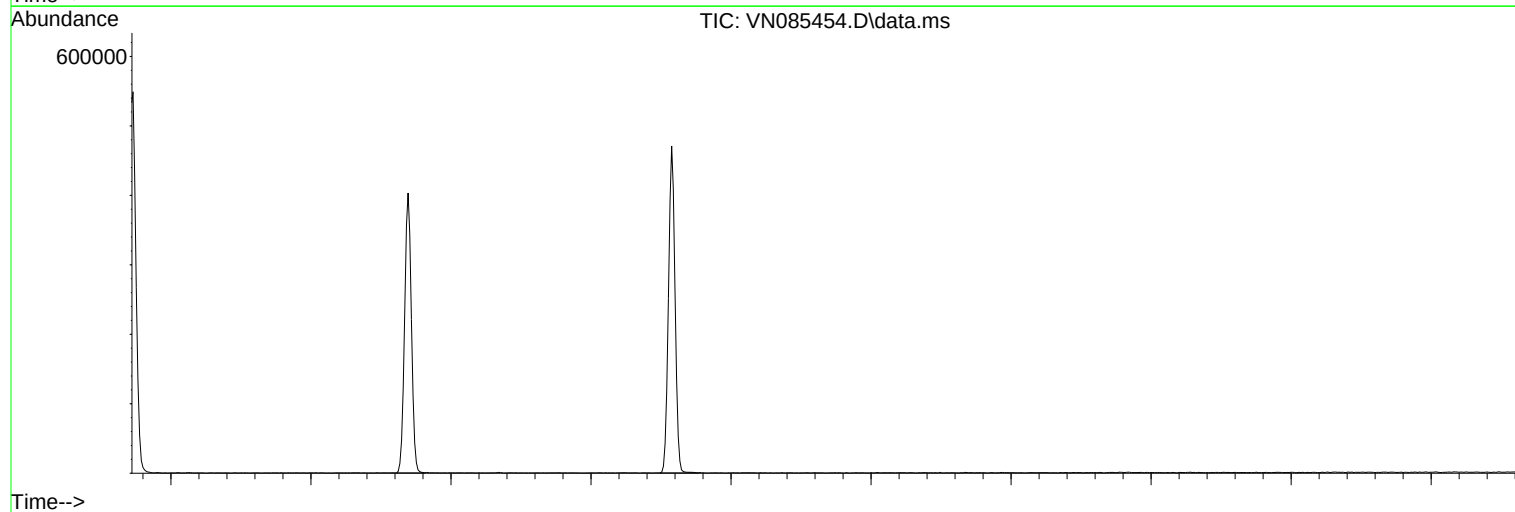
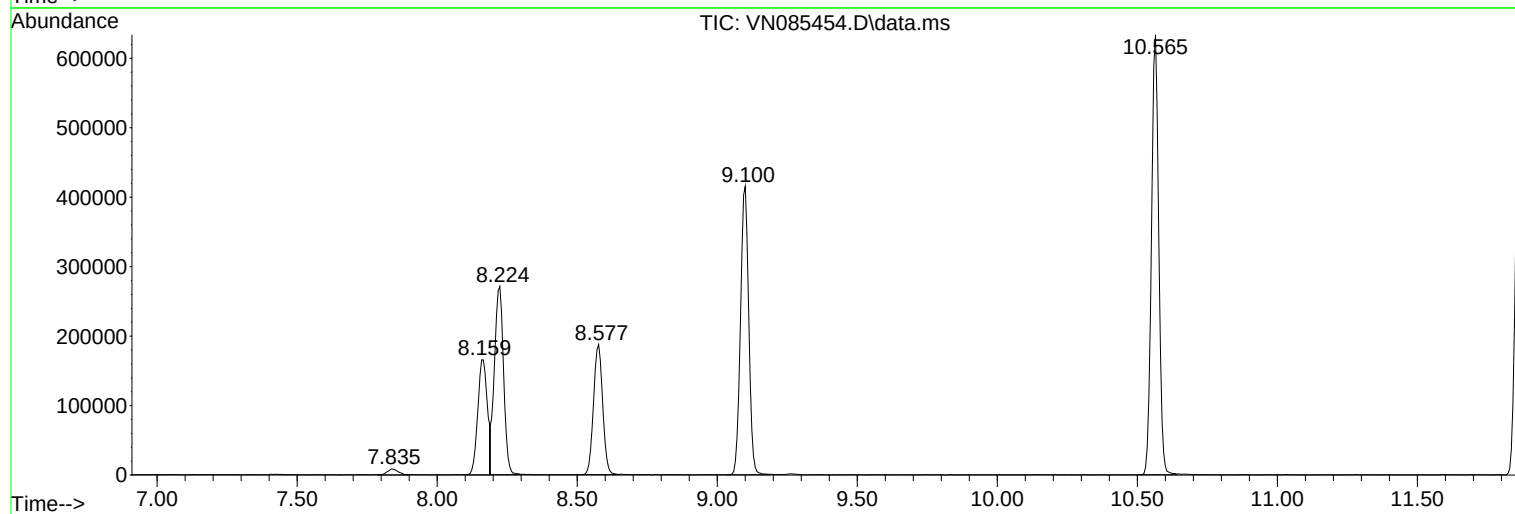
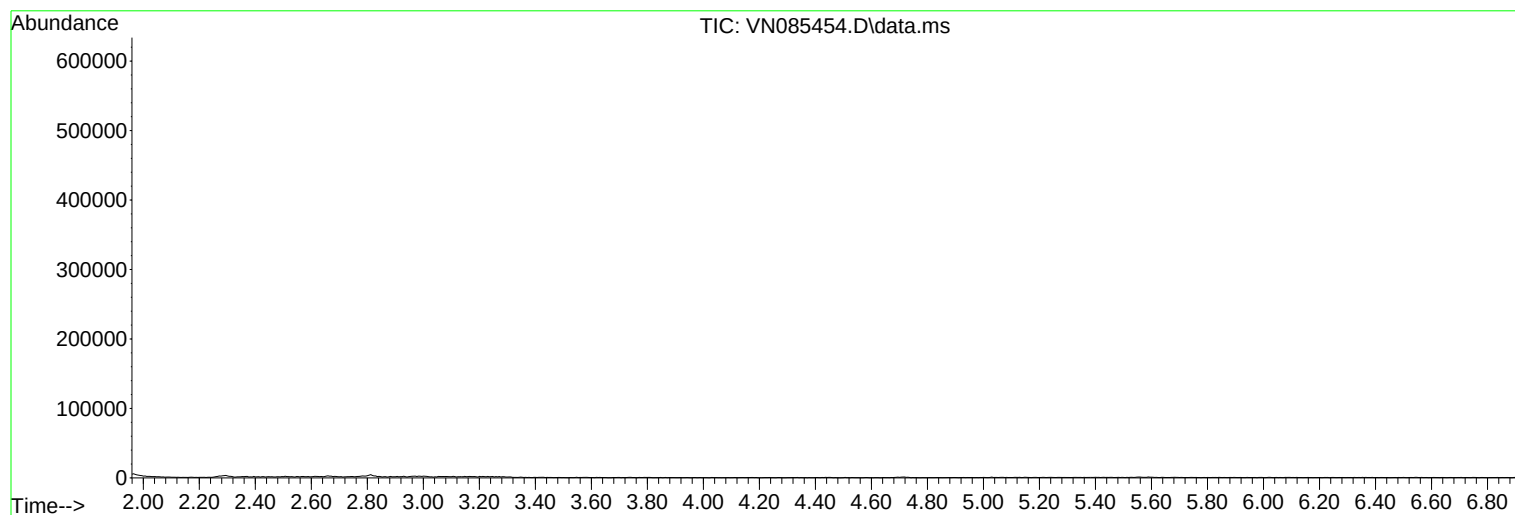
Sum of corrected areas: 5869659

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085454.D
Acq On : 15 Jan 2025 12:14
Operator : JC\MD
Sample : Q1062-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085454.D
Acq On : 15 Jan 2025 12:14
Operator : JC\MD
Sample : Q1062-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085454.D
Acq On : 15 Jan 2025 12:14
Operator : JC\MD
Sample : Q1062-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--
				#	RT Resp Conc

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	01/07/25		
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	01/09/25		
Client Sample ID:	BP-VPB-190A-GW-898-900			SDG No.:	Q1062		
Lab Sample ID:	Q1062-04			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	RXI-624	ID :	0.25	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085452.D	10		01/15/25 11:26	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	5.00	U	3.50	5.00	10.0	ug/L
75-01-4	Vinyl Chloride	7.50	U	3.40	7.50	10.0	ug/L
74-83-9	Bromomethane	37.5	U	13.6	37.5	50.0	ug/L
75-00-3	Chloroethane	7.50	U	5.60	7.50	10.0	ug/L
75-69-4	Trichlorofluoromethane	5.00	U	3.40	5.00	10.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	5.00	U	2.50	5.00	10.0	ug/L
75-35-4	1,1-Dichloroethene	7.50	U	2.60	7.50	10.0	ug/L
67-64-1	Acetone	37.5	U	13.9	37.5	50.0	ug/L
75-15-0	Carbon Disulfide	7.50	U	3.20	7.50	10.0	ug/L
1634-04-4	Methyl tert-butyl Ether	5.00	U	1.60	5.00	10.0	ug/L
75-09-2	Methylene Chloride	5.00	U	3.20	5.00	10.0	ug/L
156-60-5	trans-1,2-Dichloroethene	5.00	U	2.50	5.00	10.0	ug/L
75-34-3	1,1-Dichloroethane	5.00	U	2.30	5.00	10.0	ug/L
78-93-3	2-Butanone	25.0	U	13.0	25.0	50.0	ug/L
56-23-5	Carbon Tetrachloride	5.00	U	2.50	5.00	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	7.50	U	2.50	7.50	10.0	ug/L
67-66-3	Chloroform	5.00	U	2.60	5.00	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	5.00	U	1.90	5.00	10.0	ug/L
108-87-2	Methylcyclohexane	5.00	U	1.90	5.00	10.0	ug/L
71-43-2	Benzene	5.00	U	1.60	5.00	10.0	ug/L
107-06-2	1,2-Dichloroethane	5.00	U	2.40	5.00	10.0	ug/L
79-01-6	Trichloroethene	7.50	U	3.20	7.50	10.0	ug/L
78-87-5	1,2-Dichloropropane	5.00	U	1.90	5.00	10.0	ug/L
75-27-4	Bromodichloromethane	5.00	U	2.40	5.00	10.0	ug/L
108-10-1	4-Methyl-2-Pentanone	25.0	U	7.50	25.0	50.0	ug/L
108-88-3	Toluene	5.00	U	1.80	5.00	10.0	ug/L
10061-02-6	t-1,3-Dichloropropene	5.00	U	2.10	5.00	10.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	5.00	U	1.80	5.00	10.0	ug/L
79-00-5	1,1,2-Trichloroethane	5.00	U	2.10	5.00	10.0	ug/L
591-78-6	2-Hexanone	25.0	U	11.3	25.0	50.0	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/07/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	01/09/25	
Client Sample ID:	BP-VPB-190A-GW-898-900		SDG No.:	Q1062	
Lab Sample ID:	Q1062-04		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085452.D	10		01/15/25 11:26	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	5.00	U	1.80	5.00	10.0	ug/L
127-18-4	Tetrachloroethene	5.00	U	2.50	5.00	10.0	ug/L
108-90-7	Chlorobenzene	5.00	U	1.30	5.00	10.0	ug/L
100-41-4	Ethyl Benzene	5.00	U	1.60	5.00	10.0	ug/L
179601-23-1	m/p-Xylenes	10.0	U	3.10	10.0	20.0	ug/L
95-47-6	o-Xylene	5.00	U	1.40	5.00	10.0	ug/L
100-42-5	Styrene	5.00	U	1.60	5.00	10.0	ug/L
75-25-2	Bromoform	5.00	U	2.10	5.00	10.0	ug/L
98-82-8	Isopropylbenzene	5.00	U	1.30	5.00	10.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	2.70	5.00	10.0	ug/L
541-73-1	1,3-Dichlorobenzene	5.00	U	2.40	5.00	10.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.00	U	2.70	5.00	10.0	ug/L
95-50-1	1,2-Dichlorobenzene	5.00	U	1.90	5.00	10.0	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.8		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	49.3		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	175000	8.218				
540-36-3	1,4-Difluorobenzene	316000	9.1				
3114-55-4	Chlorobenzene-d5	274000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	108000	13.788				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	BP-VPB-190A-GW-898-900	SDG No.:	Q1062
Lab Sample ID:	Q1062-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085452.D	10		01/15/25 11:26	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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\VN011525\
Data File : VN085452.D
Acq On : 15 Jan 2025 11:26
Operator : JC\MD
Sample : Q1062-04 10X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

Quant Time: Jan 16 00:55:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	175474	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	316452	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	274227	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	107831	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	149471	52.770	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	105.540%
35) Dibromofluoromethane	8.165	113	114177	52.007	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.020%
50) Toluene-d8	10.565	98	384211	49.257	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.520%
62) 4-Bromofluorobenzene	12.847	95	123439	46.262	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	92.520%

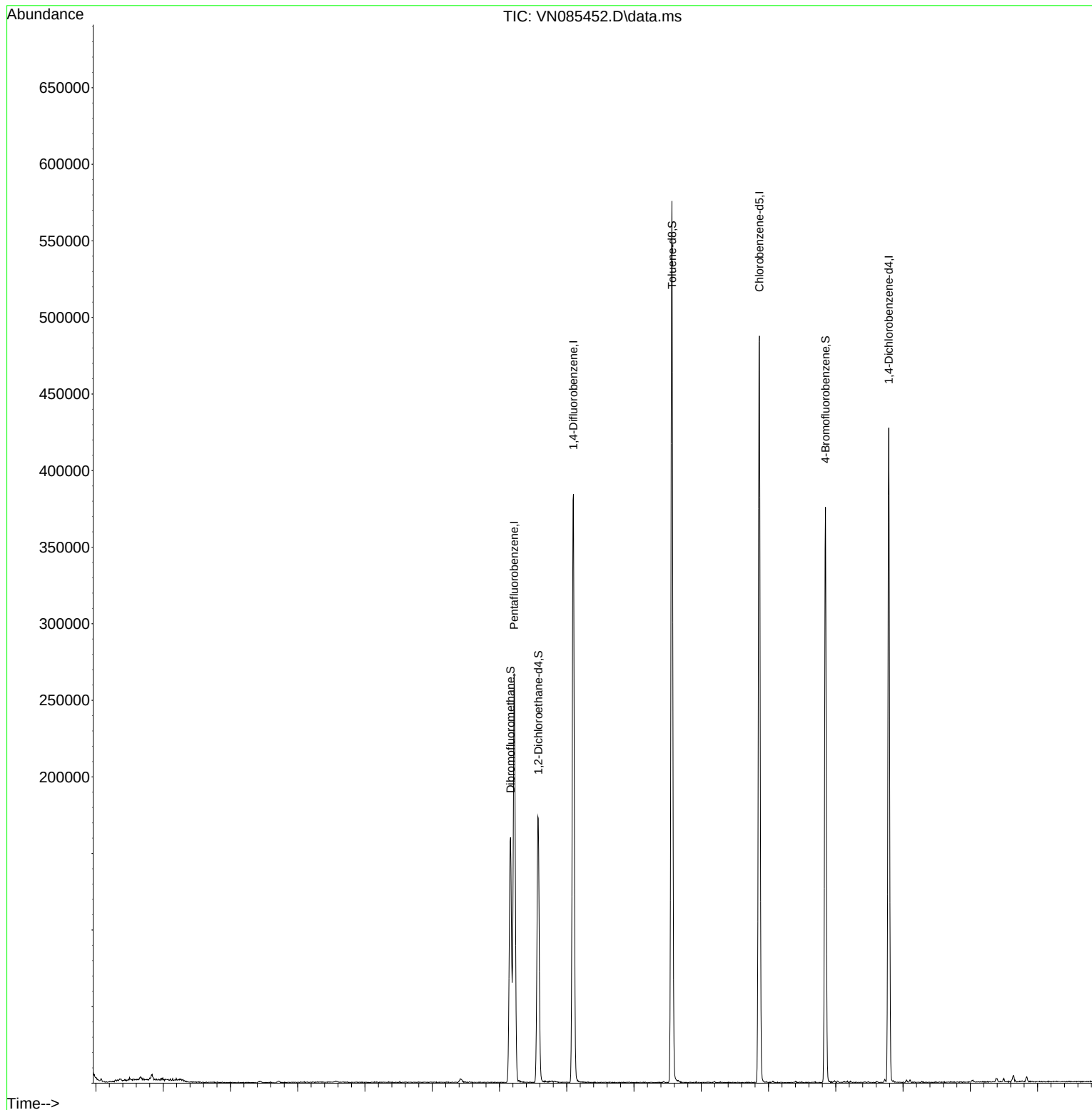
Target Compounds	Qvalue

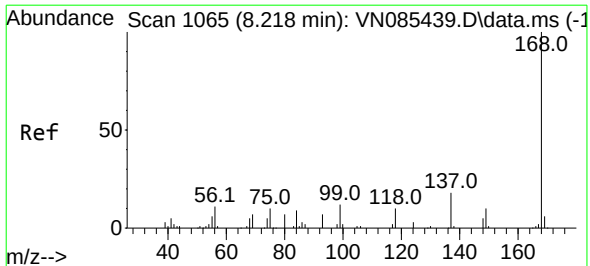
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085452.D
Acq On : 15 Jan 2025 11:26
Operator : JC\MD
Sample : Q1062-04 10X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

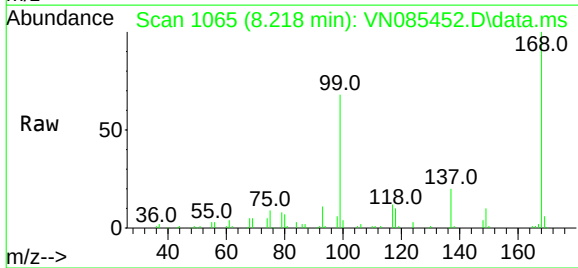
Quant Time: Jan 16 00:55:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration



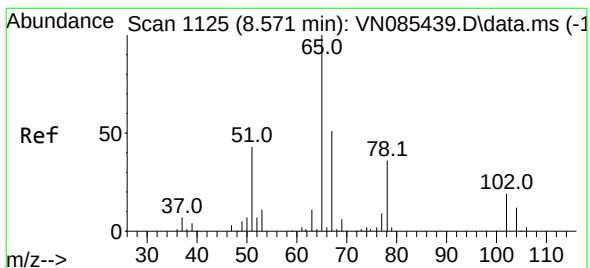
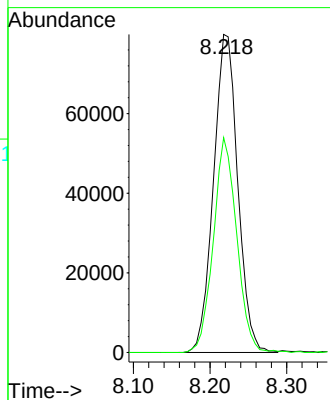
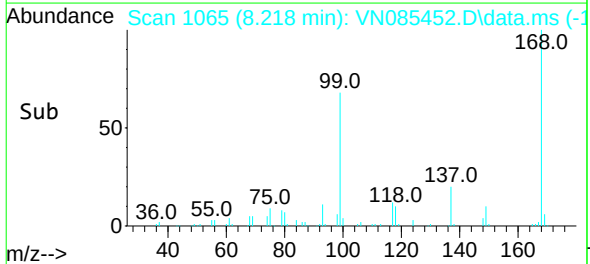


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085452.D
Acq: 15 Jan 2025 11:26

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

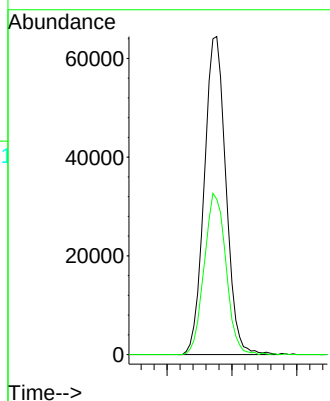
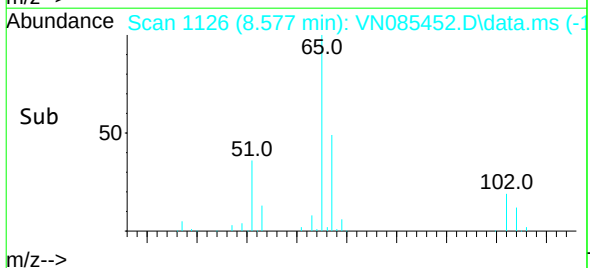
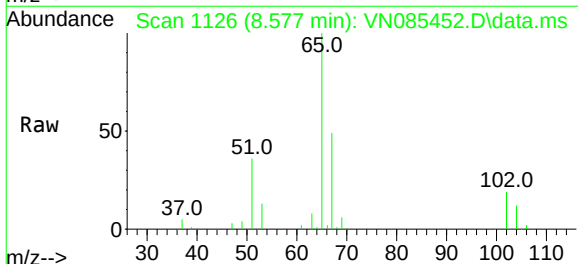


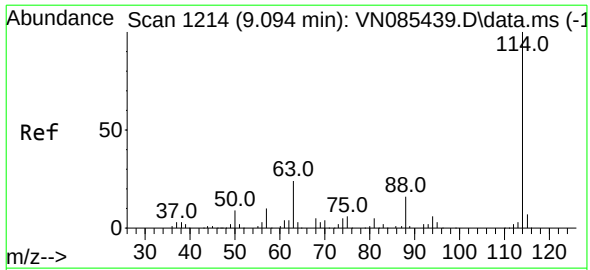
Tgt Ion:168 Resp: 175474
Ion Ratio Lower Upper
168 100
99 67.5 53.6 80.4



#33
1,2-Dichloroethane-d4
Concen: 52.770 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085452.D
Acq: 15 Jan 2025 11:26

Tgt Ion: 65 Resp: 149471
Ion Ratio Lower Upper
65 100
67 50.8 0.0 101.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 12

Delta R.T. 0.006 min

Lab File: VN085452.D

Acq: 15 Jan 2025 11:26

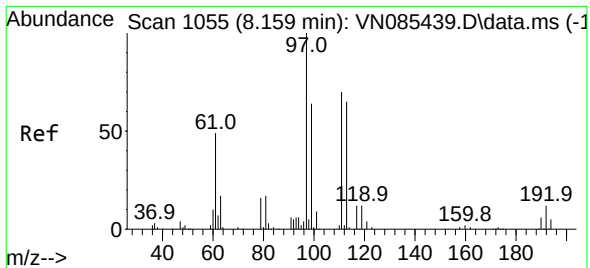
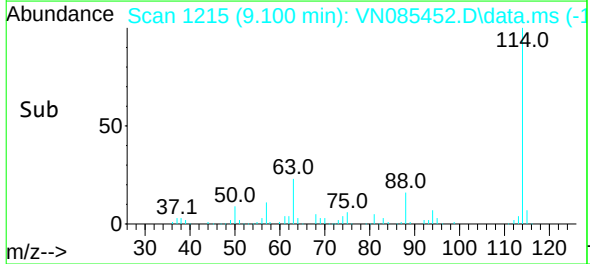
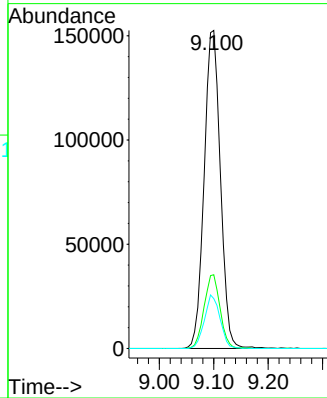
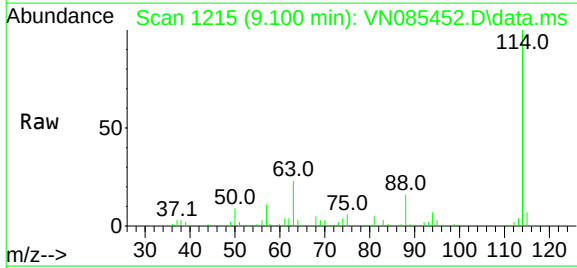
Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190A-GW-898-900

Tgt Ion:114	Resp: 316452
Ion Ratio	Lower Upper
114 100	
63 23.2	0.0 47.6
88 15.7	0.0 32.6



#35

Dibromofluoromethane

Concen: 52.007 ug/l

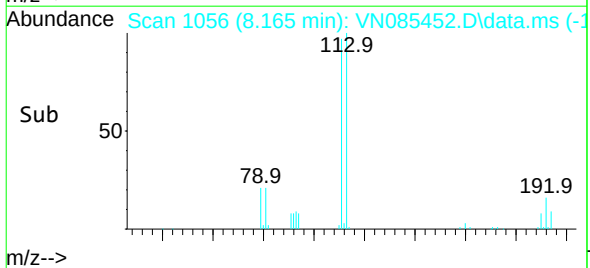
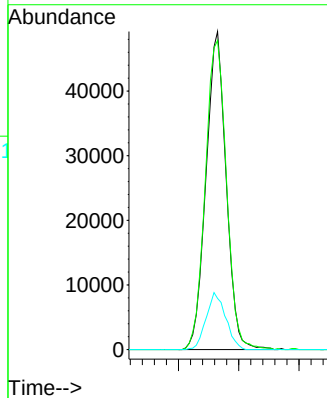
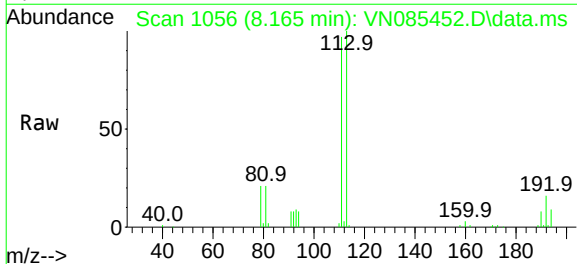
RT: 8.165 min Scan# 1056

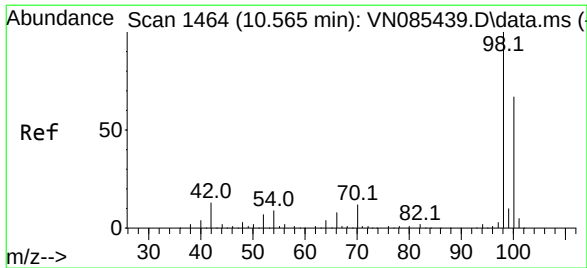
Delta R.T. 0.006 min

Lab File: VN085452.D

Acq: 15 Jan 2025 11:26

Tgt Ion:113	Resp: 114177
Ion Ratio	Lower Upper
113 100	
111 102.3	82.7 124.1
192 17.4	14.3 21.5





#50

Toluene-d8

Concen: 49.257 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085452.D

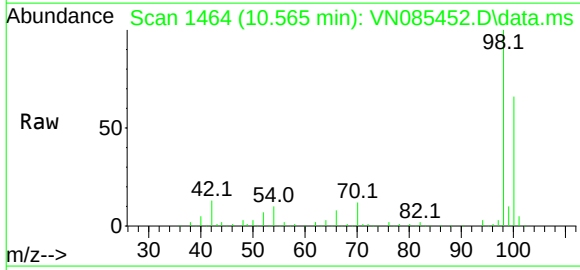
Acq: 15 Jan 2025 11:26

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190A-GW-898-900

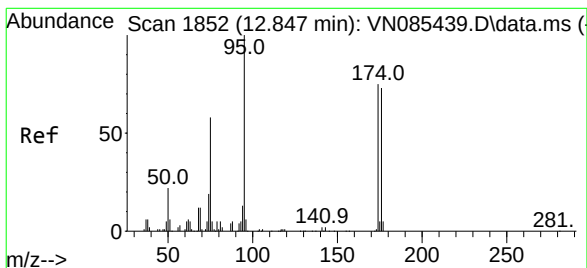
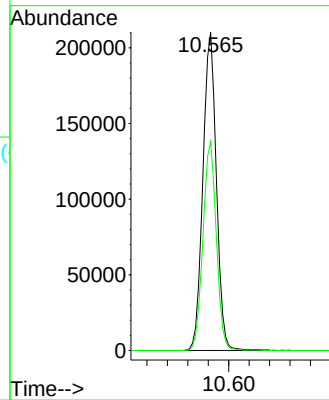
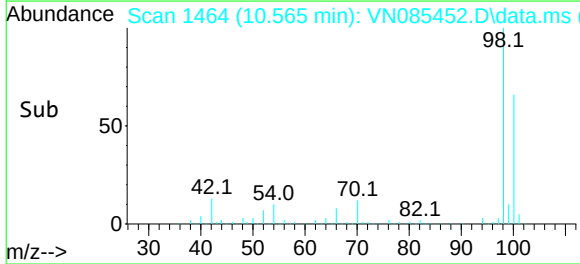


Tgt Ion: 98 Resp: 384211

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.4



#62

4-Bromofluorobenzene

Concen: 46.262 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN085452.D

Acq: 15 Jan 2025 11:26

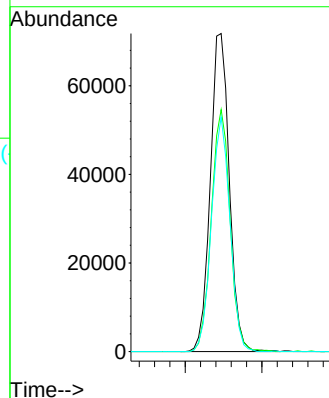
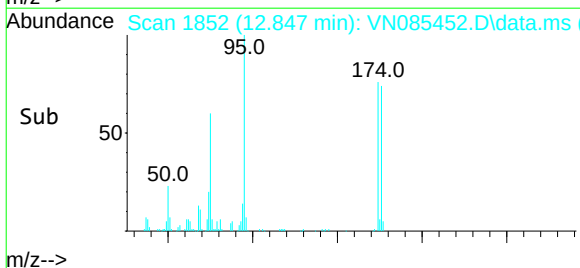
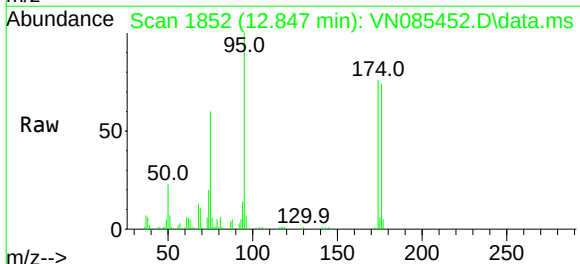
Tgt Ion: 95 Resp: 123439

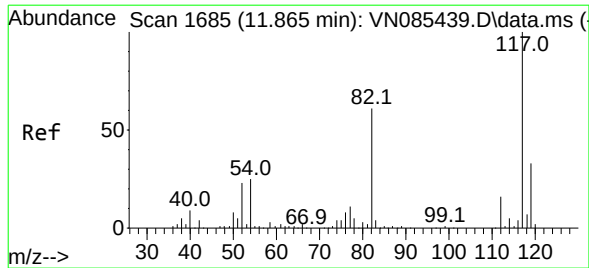
Ion Ratio Lower Upper

95 100

174 75.2 0.0 145.0

176 71.6 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 16

Delta R.T. -0.000 min

Lab File: VN085452.D

Acq: 15 Jan 2025 11:26

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190A-GW-898-900

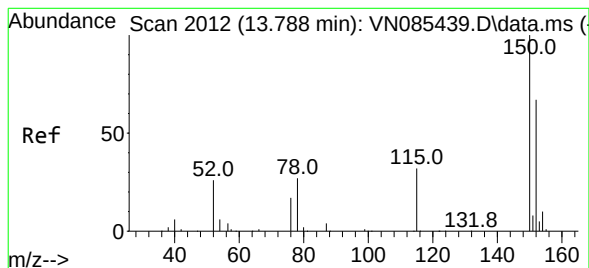
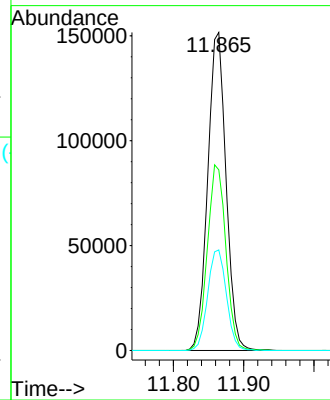
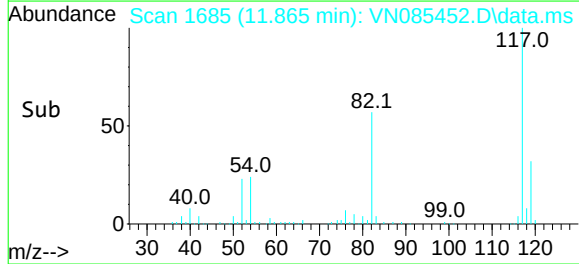
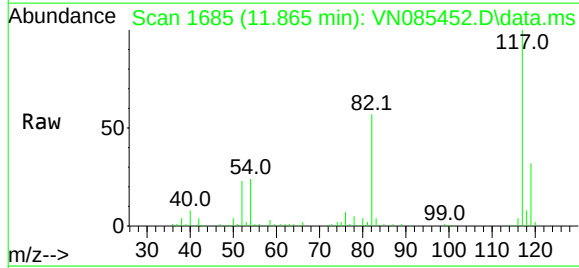
Tgt Ion:117 Resp: 274227

Ion Ratio Lower Upper

117 100

82 56.8 48.6 72.8

119 31.6 26.6 39.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085452.D

Acq: 15 Jan 2025 11:26

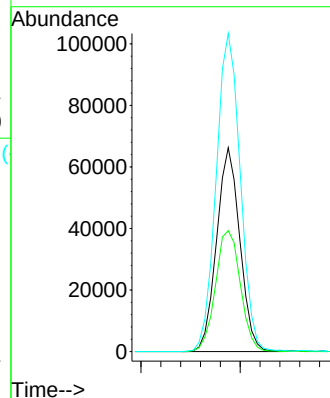
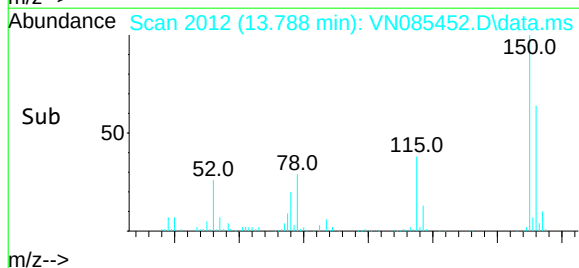
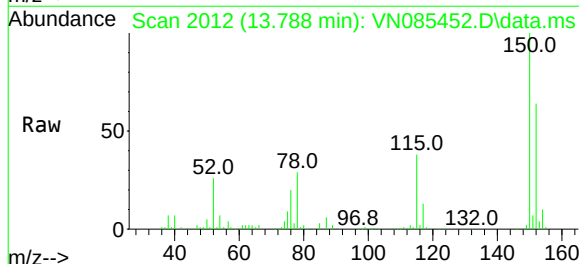
Tgt Ion:152 Resp: 107831

Ion Ratio Lower Upper

152 100

115 63.6 31.1 93.3

150 161.7 0.0 343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085452.D
Acq On : 15 Jan 2025 11:26
Operator : JC\MD
Sample : Q1062-04 10X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Title : SW846 8260

Signal : TIC: VN085452.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.165	1045	1056	1060	rBV	160002	381798	36.03%	6.999%
2	8.218	1060	1065	1075	rVB	266188	573730	54.15%	10.518%
3	8.571	1115	1125	1137	rBV	173693	402386	37.98%	7.376%
4	9.100	1206	1215	1225	rBV	384225	791898	74.74%	14.517%
5	10.565	1454	1464	1477	rBV	575573	1059570	100.00%	19.424%
6	11.865	1677	1685	1699	rBV	487436	898496	84.80%	16.471%
7	12.847	1844	1852	1861	rBV	375524	631058	59.56%	11.568%
8	13.788	2005	2012	2022	rBV	426837	716043	67.58%	13.126%

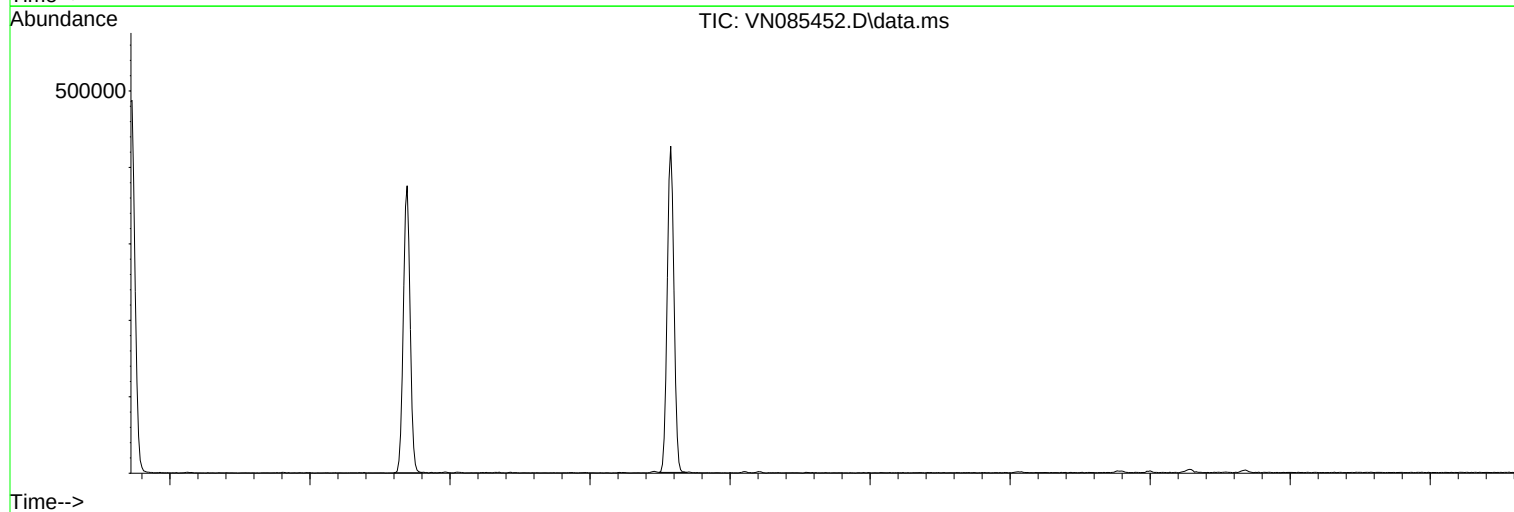
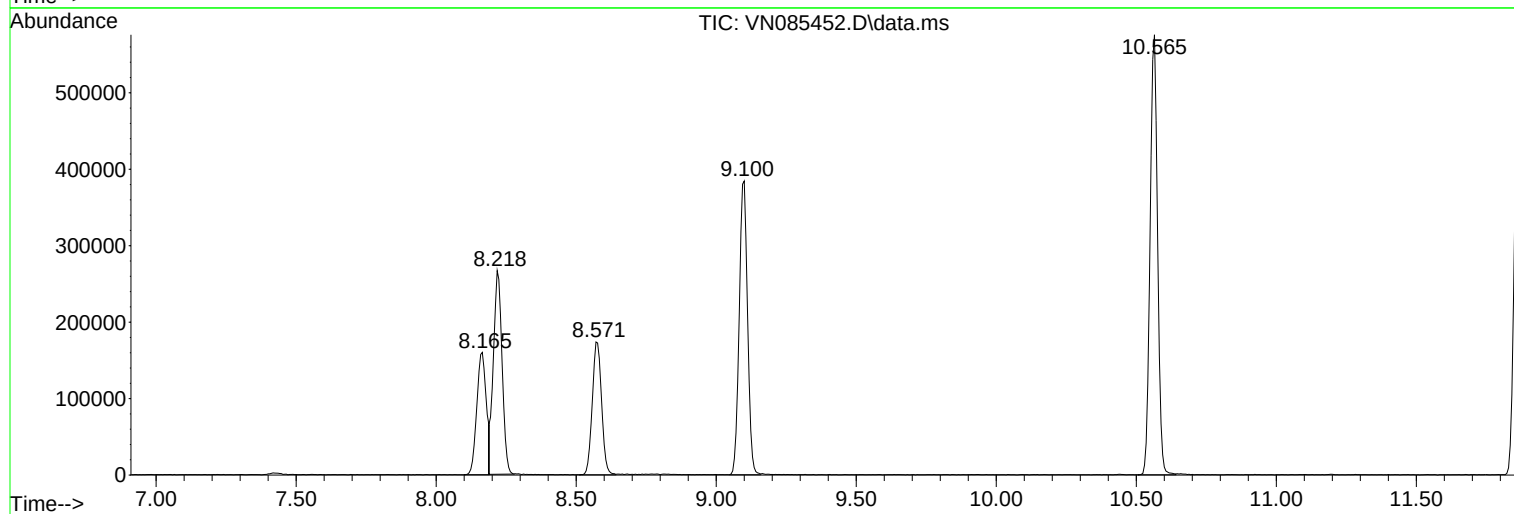
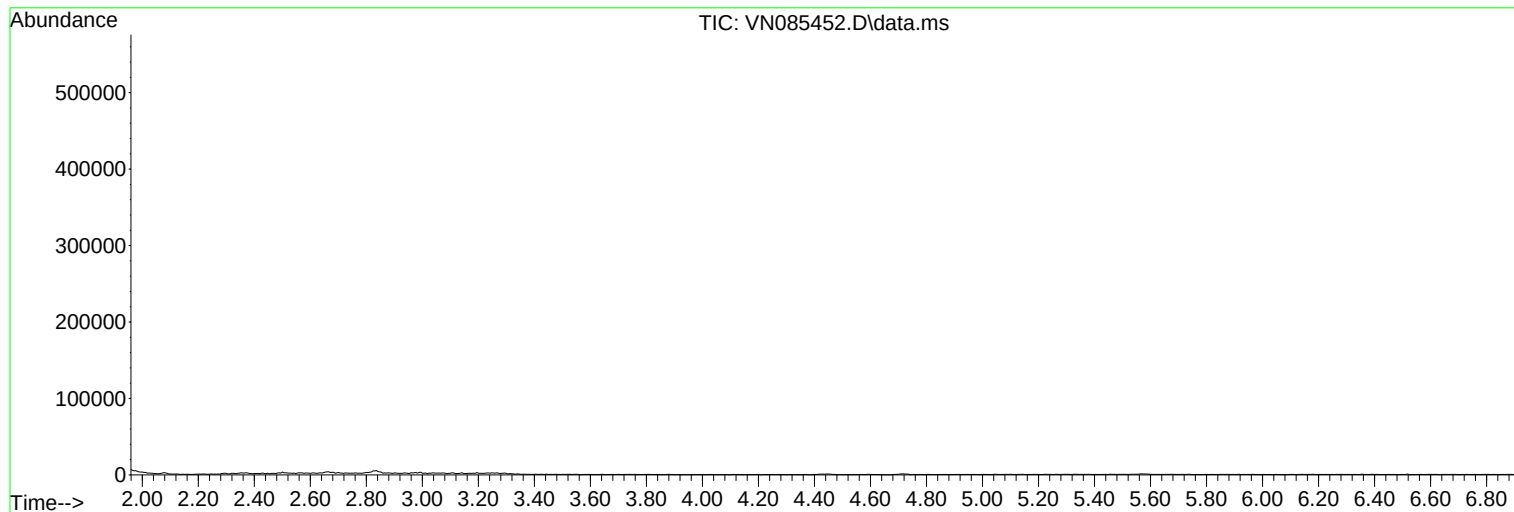
Sum of corrected areas: 5454979

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085452.D
Acq On : 15 Jan 2025 11:26
Operator : JC\MD
Sample : Q1062-04 10X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085452.D
Acq On : 15 Jan 2025 11:26
Operator : JC\MD
Sample : Q1062-04 10X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085452.D
Acq On : 15 Jan 2025 11:26
Operator : JC\MD
Sample : Q1062-04 10X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc



CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06
 Lab Code: CHEM Case No.: Q1062 SAS No.: Q1062 SDG No.: Q1062
 Instrument ID: MSVOA_N Calibration Date(s): 01/14/2025 01/14/2025
 Heated Purge: (Y/N) N Calibration Time(s): 14:56 17:19
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN085438.D		RRF050 = VN085439.D		RRF020 = VN085440.D			
		RRF010 = VN085441.D		RRF005 = VN085442.D		RRF001 = VN085443.D			
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
Chloromethane	0.680	0.680	0.727	0.693	0.779	0.839	0.733	8.8	
Vinyl Chloride	0.697	0.686	0.727	0.711	0.781	0.819	0.737	7.1	
Bromomethane	0.392	0.417	0.454	0.437	0.525		0.445	11.3	
Chloroethane	0.435	0.424	0.468	0.429	0.505	0.542	0.467	10.3	
Trichlorofluoromethane	1.046	0.997	1.097	1.040	1.077	1.157	1.069	5.1	
1,1,2-Trichlorotrifluoroethane	0.590	0.542	0.609	0.587	0.639	0.646	0.602	6.4	
1,1-Dichloroethene	0.548	0.533	0.556	0.526	0.559	0.497	0.537	4.3	
Acetone	0.238	0.252	0.252	0.247	0.269	0.306	0.261	9.3	
Carbon Disulfide	1.555	1.477	1.647	1.537	1.719	1.978	1.652	11	
Methyl tert-butyl Ether	1.834	1.873	1.853	1.664	1.685	1.545	1.742	7.5	
Methylene Chloride	0.629	0.629	0.658	0.606	0.696	0.656	0.646	4.9	
trans-1,2-Dichloroethene	0.571	0.555	0.574	0.539	0.569	0.632	0.573	5.5	
1,1-Dichloroethane	1.164	1.170	1.206	1.100	1.226	1.204	1.178	3.8	
2-Butanone	0.378	0.390	0.398	0.363	0.387	0.386	0.384	3.1	
Carbon Tetrachloride	0.574	0.530	0.579	0.529	0.565	0.567	0.557	4	
cis-1,2-Dichloroethene	0.691	0.683	0.715	0.639	0.669	0.655	0.675	4	
Chloroform	1.197	1.175	1.241	1.169	1.253	1.273	1.218	3.6	
1,1,1-Trichloroethane	1.053	1.016	1.091	1.000	1.148	1.102	1.068	5.2	
Methylcyclohexane	0.564	0.463	0.477	0.407	0.437	0.397	0.457	13.3	
Benzene	1.551	1.449	1.527	1.376	1.474	1.400	1.463	4.7	
1,2-Dichloroethane	0.569	0.547	0.575	0.522	0.574	0.517	0.551	4.8	
Trichloroethene	0.362	0.324	0.352	0.310	0.343	0.352	0.341	5.8	
1,2-Dichloropropane	0.390	0.371	0.388	0.334	0.388	0.371	0.374	5.7	
Bromodichloromethane	0.590	0.559	0.579	0.514	0.569	0.484	0.549	7.5	
4-Methyl-2-Pentanone	0.499	0.492	0.495	0.432	0.443	0.380	0.457	10.3	
Toluene	0.964	0.870	0.919	0.808	0.835	0.690	0.848	11.3	
t-1,3-Dichloropropene	0.594	0.551	0.544	0.481	0.527	0.416	0.519	12	
cis-1,3-Dichloropropene	0.623	0.588	0.601	0.527	0.538	0.450	0.554	11.4	
1,1,2-Trichloroethane	0.348	0.340	0.353	0.309	0.349	0.314	0.335	5.7	
2-Hexanone	0.358	0.357	0.353	0.298	0.302	0.261	0.321	12.6	

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06
 Lab Code: CHEM Case No.: Q1062 SAS No.: Q1062 SDG No.: Q1062
 Instrument ID: MSVOA_N Calibration Date(s): 01/14/2025 01/14/2025
 Heated Purge: (Y/N) N Calibration Time(s): 14:56 17:19
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN085438.D		RRF050 = VN085439.D		RRF020 = VN085440.D			
		RRF010 = VN085441.D		RRF005 = VN085442.D		RRF001 = VN085443.D			
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
Dibromochloromethane	0.430	0.414	0.412	0.368	0.420	0.386	0.405	5.8	
Tetrachloroethene	0.351	0.322	0.365	0.338	0.346	0.323	0.341	4.9	
Chlorobenzene	1.133	1.076	1.154	1.047	1.110	1.051	1.095	4	
Ethyl Benzene	2.072	1.867	1.940	1.685	1.709	1.430	1.784	12.7	
m/p-Xylenes	0.775	0.707	0.750	0.615	0.616	0.492	0.659	16	
o-Xylene	0.738	0.681	0.713	0.584	0.582	0.482	0.630	15.5	
Styrene	1.271	1.173	1.186	0.956	0.929	0.742	1.043	19.2	
Bromoform	0.311	0.311	0.312	0.273	0.284	0.235	0.288	10.6	
Isopropylbenzene	3.922	3.448	3.681	3.272	3.157	2.766	3.375	12.1	
1,1,2,2-Tetrachloroethane	1.121	1.145	1.187	1.157	1.228	1.314	1.192	5.9	
1,3-Dichlorobenzene	1.720	1.565	1.701	1.574	1.656	1.526	1.624	4.9	
1,4-Dichlorobenzene	1.706	1.562	1.713	1.607	1.743	1.767	1.683	4.8	
1,2-Dichlorobenzene	1.611	1.555	1.654	1.532	1.600	1.766	1.620	5.2	
1,2-Dichloroethane-d4	0.774	0.831	0.754	0.762	0.914		0.807	8.3	
Dibromofluoromethane	0.359	0.358	0.335	0.310	0.373		0.347	7.1	
Toluene-d8	1.339	1.267	1.207	1.076	1.274		1.232	8.1	
4-Bromofluorobenzene	0.475	0.449	0.410	0.357	0.417		0.422	10.6	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N011425W.M
 Title : SW846 8260
 Last Update : Wed Jan 15 02:16:08 2025
 Response Via : Initial Calibration

Calibration Files

1 =VN085443.D 5 =VN085442.D 10 =VN085441.D 20 =VN085440.D 50 =VN085439.D 100 =VN085438.

D

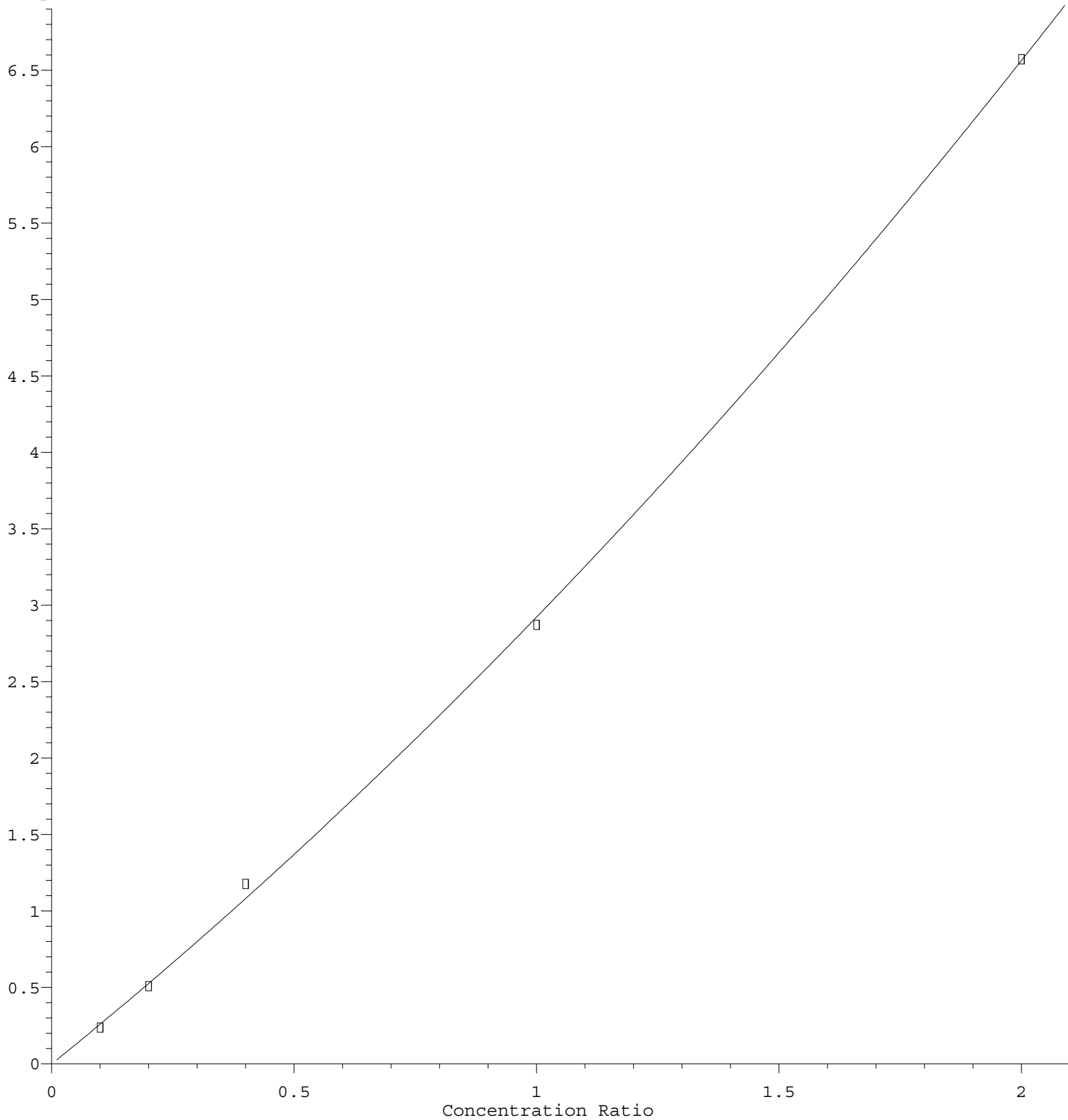
	Compound	1	5	10	20	50	100	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.714	0.708	0.667	0.681	0.629	0.664	0.677	4.59
3) P	Chloromethane	0.839	0.779	0.693	0.727	0.680	0.680	0.733	8.77
4) C	Vinyl Chloride	0.819	0.781	0.711	0.727	0.686	0.697	0.737	7.06#
5) T	Bromomethane	0.525	0.437	0.454	0.417	0.392	0.445		11.26
6) T	Chloroethane	0.542	0.505	0.429	0.468	0.424	0.435	0.467	10.27
7) T	Trichlorofluor...	1.157	1.077	1.040	1.097	0.997	1.046	1.069	5.14
8) T	Diethyl Ether	0.457	0.357	0.317	0.363	0.360	0.362	0.369	12.59
9) T	1,1,2-Trichlor...	0.646	0.639	0.587	0.609	0.542	0.590	0.602	6.35
10) T	Methyl Iodide	0.661	0.640	0.704	0.719	0.723	0.690		5.35
11) T	Tert butyl alc...	0.097	0.092	0.095	0.093	0.085	0.092		4.80
12) CM	1,1-Dichloroet...	0.497	0.559	0.526	0.556	0.533	0.548	0.537	4.31#
13) T	Acrolein	0.101	0.131	0.124	0.140	0.136	0.126		12.09
14) T	Allyl chloride	0.952	0.897	0.823	0.843	0.846	0.863	0.871	5.42
15) T	Acrylonitrile	0.298	0.299	0.275	0.303	0.298	0.289	0.294	3.39
16) T	Acetone	0.306	0.269	0.247	0.252	0.252	0.238	0.261	9.28
17) T	Carbon Disulfide	1.978	1.719	1.537	1.647	1.477	1.555	1.652	10.95
18) T	Methyl Acetate	0.871	0.810	0.779	0.758	0.790	0.751	0.793	5.54
19) T	Methyl tert-bu...	1.545	1.685	1.664	1.853	1.873	1.834	1.742	7.53
20) T	Methylene Chlo...	0.656	0.696	0.606	0.658	0.629	0.629	0.646	4.86
21) T	trans-1,2-Dich...	0.632	0.569	0.539	0.574	0.555	0.571	0.573	5.50
22) T	Diisopropyl ether	1.705	1.918	1.834	2.076	2.037	2.026	1.933	7.38
23) T	Vinyl Acetate	1.110	1.270	1.279	1.466	1.495	1.495	1.353	11.67
24) P	1,1-Dichloroet...	1.204	1.226	1.100	1.206	1.170	1.164	1.178	3.81
25) T	2-Butanone	0.386	0.387	0.363	0.398	0.390	0.378	0.384	3.12
26) T	2,2-Dichloropr...	0.930	0.986	0.922	0.985	0.936	0.958	0.953	2.96
27) T	cis-1,2-Dichlo...	0.655	0.669	0.639	0.715	0.683	0.691	0.675	4.02
28) T	Bromochloromet...	0.624	0.595	0.486	0.513	0.542	0.530	0.548	9.44
29) T	Tetrahydrofuran	0.221	0.236	0.233	0.261	0.260	0.248	0.243	6.58
30) C	Chloroform	1.273	1.253	1.169	1.241	1.175	1.197	1.218	3.59#
31) T	Cyclohexane	1.198	1.026	1.033	0.881	0.984	1.024		11.18
32) T	1,1,1-Trichlor...	1.102	1.148	1.000	1.091	1.016	1.053	1.068	5.24
33) S	1,2-Dichloroet...	0.914	0.762	0.754	0.831	0.774	0.807		8.28
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.373	0.310	0.335	0.358	0.359	0.347		7.10
36) T	1,1-Dichloropr...	0.509	0.490	0.441	0.499	0.462	0.521	0.487	6.17
37) T	Ethyl Acetate	0.504	0.520	0.452	0.488	0.488	0.496	0.491	4.66
38) T	Carbon Tetrach...	0.567	0.565	0.529	0.579	0.530	0.574	0.557	3.96
39) T	Methylcyclohexane	0.397	0.437	0.407	0.477	0.463	0.564	0.457	13.29
40) TM	Benzene	1.400	1.474	1.376	1.527	1.449	1.551	1.463	4.70
41) T	Methacrylonitrile	0.241	0.227	0.248	0.268	0.270	0.280	0.256	7.89
42) TM	1,2-Dichloroet...	0.517	0.574	0.522	0.575	0.547	0.569	0.551	4.78
43) T	Isopropyl Acetate	0.793	0.764	0.719	0.801	0.813	0.835	0.787	5.20
44) TM	Trichloroethene	0.352	0.343	0.310	0.352	0.324	0.362	0.341	5.79
45) C	1,2-Dichloropr...	0.371	0.388	0.334	0.388	0.371	0.390	0.374	5.69#
46) T	Dibromomethane	0.292	0.254	0.254	0.277	0.267	0.275	0.270	5.50
47) T	Bromodichlorom...	0.484	0.569	0.514	0.579	0.559	0.590	0.549	7.48
48) T	Methyl methacr...	0.311	0.326	0.321	0.369	0.392	0.406	0.354	11.37
49) T	1,4-Dioxane	0.006	0.006	0.006	0.006	0.006	0.006	0.006	6.72
50) S	Toluene-d8	1.274	1.076	1.207	1.267	1.339	1.232		8.07
51) T	4-Methyl-2-Pen...	0.380	0.443	0.432	0.495	0.492	0.499	0.457	10.33
52) CM	Toluene	0.690	0.835	0.808	0.919	0.870	0.964	0.848	11.27#
53) T	t-1,3-Dichloro...	0.416	0.527	0.481	0.544	0.551	0.594	0.519	11.98
54) T	cis-1,3-Dichlo...	0.450	0.538	0.527	0.601	0.588	0.623	0.554	11.40
55) T	1,1,2-Trichlor...	0.314	0.349	0.309	0.353	0.340	0.348	0.335	5.67

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\										
Method File : 82N011425W.M										
56)	T	Ethyl methacry...	0.317	0.434	0.418	0.521	0.544	0.582	0.469	20.85
57)	T	1,3-Dichloropr...	0.514	0.584	0.555	0.618	0.602	0.627	0.583	7.31
58)	T	2-Chloroethyl ...	0.163	0.205	0.185	0.226	0.241	0.258	0.213	16.67
59)	T	2-Hexanone	0.261	0.302	0.298	0.353	0.357	0.358	0.321	12.60
60)	T	Dibromochlorom...	0.386	0.420	0.368	0.412	0.414	0.430	0.405	5.79
61)	T	1,2-Dibromoethane	0.334	0.321	0.309	0.356	0.334	0.349	0.334	5.16
62)	S	4-Bromofluorob...		0.417	0.357	0.410	0.449	0.475	0.422	10.57
-----ISTD-----										
63)	I	Chlorobenzene-d5								
64)	T	Tetrachloroethene	0.323	0.346	0.338	0.365	0.322	0.351	0.341	4.87
65)	PM	Chlorobenzene	1.051	1.110	1.047	1.154	1.076	1.133	1.095	4.03
66)	T	1,1,1,2-Tetrac...	0.425	0.412	0.371	0.408	0.392	0.404	0.402	4.65
67)	C	Ethyl Benzene	1.430	1.709	1.685	1.940	1.867	2.072	1.784	12.67#
68)	T	m/p-Xylenes	0.492	0.616	0.615	0.750	0.707	0.775	0.659	16.01
69)	T	o-Xylene	0.482	0.582	0.584	0.713	0.681	0.738	0.630	15.47
70)	T	Styrene	0.742	0.929	0.956	1.186	1.173	1.271	1.043	19.21
71)	P	Bromoform	0.235	0.284	0.273	0.312	0.311	0.311	0.288	10.61
-----ISTD-----										
72)	I	1,4-Dichlorobenzen...								
73)	T	Isopropylbenzene	2.766	3.157	3.272	3.681	3.448	3.922	3.375	12.06
74)	T	N-amyl acetate	1.364	1.394	1.405	1.642	1.622	1.673	1.517	9.43
75)	P	1,1,2,2-Tetrac...	1.314	1.228	1.157	1.187	1.145	1.121	1.192	5.89
76)	T	1,2,3-Trichlor...	1.104	0.965	0.957	1.118	0.893	1.061	1.016	8.96
77)	T	Bromobenzene	0.871	0.880	0.857	0.906	0.858	0.919	0.882	2.90
78)	T	n-propylbenzene	3.227	3.605	3.846	4.400	4.154	4.738	3.995	13.74
79)	T	2-Chlorotoluene	2.252	2.533	2.571	2.761	2.585	2.812	2.586	7.67
80)	T	1,3,5-Trimethy...	2.160	2.529	2.695	3.140	2.940	3.260	2.787	14.69
81)	T	trans-1,4-Dich...		0.335	0.347	0.386	0.390	0.419	0.376	9.04
82)	T	4-Chlorotoluene	2.144	2.536	2.512	2.820	2.588	2.847	2.574	9.91
83)	T	tert-Butylbenzene	1.885	2.189	2.236	2.570	2.439	2.726	2.341	12.85
84)	T	1,2,4-Trimethy...	1.888	2.542	2.710	3.190	3.016	3.323	2.778	18.89
85)	T	sec-Butylbenzene	2.318	3.026	3.147	3.643	3.421	3.912	3.244	17.17
86)	T	p-Isopropyltol...	1.777	2.368	2.541	2.942	2.872	3.286	2.631	20.04
87)	T	1,3-Dichlorobe...	1.526	1.656	1.574	1.701	1.565	1.720	1.624	4.91
88)	T	1,4-Dichlorobe...	1.767	1.743	1.607	1.713	1.562	1.706	1.683	4.78
89)	T	n-Butylbenzene	1.772	2.176	2.168	2.485	2.483	2.881	2.327	16.22
90)	T	Hexachloroethane	0.681	0.616	0.574	0.613	0.577	0.645	0.618	6.59
91)	T	1,2-Dichlorobe...	1.766	1.600	1.532	1.654	1.555	1.611	1.620	5.15
92)	T	1,2-Dibromo-3-...	0.202	0.228	0.212	0.224	0.222	0.218	0.218	4.31
93)	T	1,2,4-Trichlor...	0.658	0.717	0.704	0.799	0.781	0.858	0.753	9.69
94)	T	Hexachlorobuta...	0.413	0.441	0.395	0.396	0.367	0.386	0.400	6.31
95)	T	Naphthalene	2.115	1.987	1.958	2.348	2.482	2.588	2.246	11.79
96)	T	1,2,3-Trichlor...	0.750	0.693	0.732	0.792	0.786	0.817	0.762	5.96

(#) = Out of Range

p-Isopropyltoluene

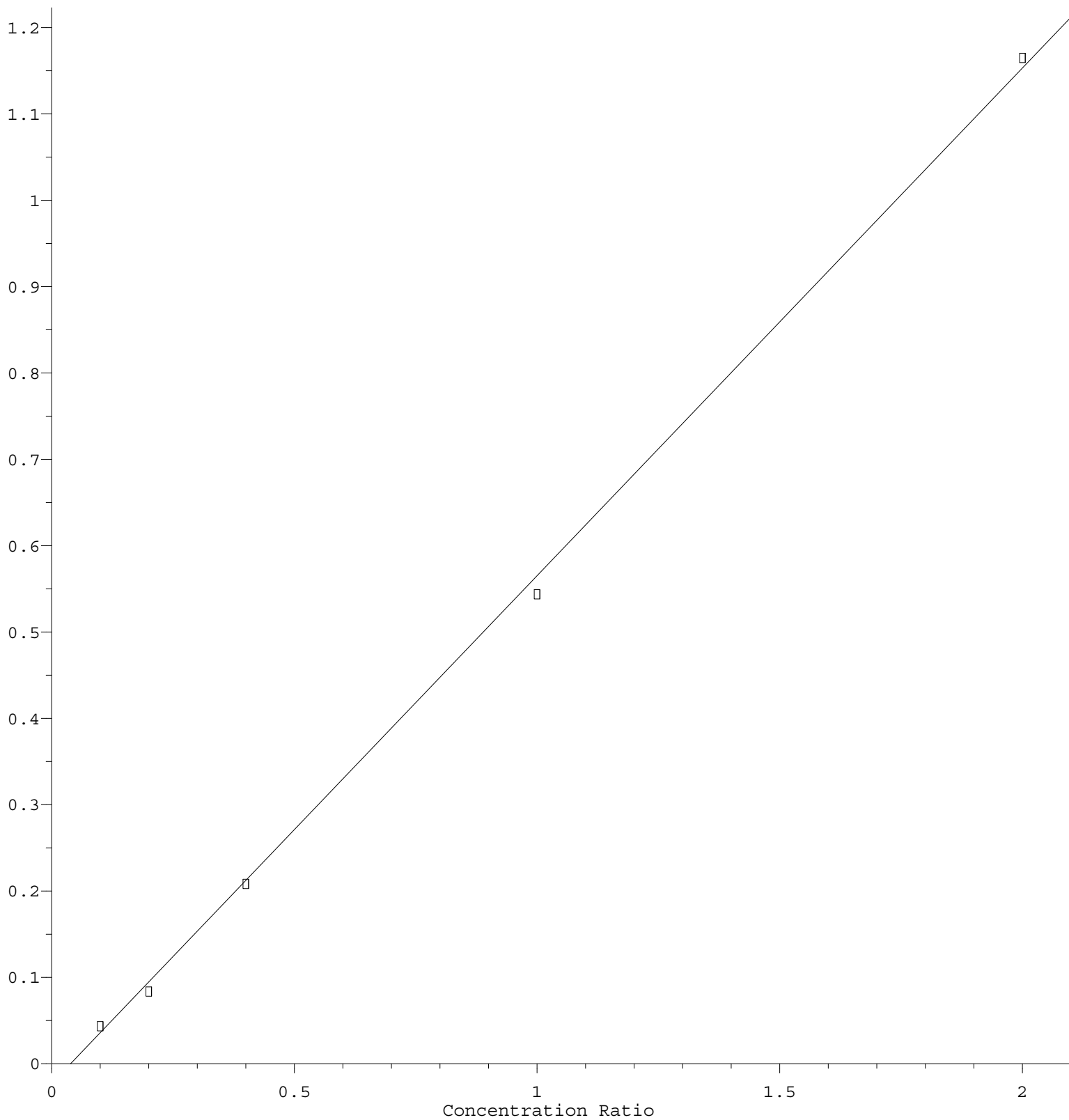
Response Ratio



$R = 3.594e-001 A^2 + 2.563e+000 A - 1.210e-003$
Coef of Det (r^2) = 0.999599 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N011425W.M
Calibration Table Last Updated: Wed Jan 15 02:16:08 2025

Ethyl methacrylate

Response Ratio



$$\text{Response} = 5.877\text{e-}001 * \text{Amt} - 2.270\text{e-}002$$

Coef of Det (r^2) = 0.998904 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N011425W.M

Calibration Table Last Updated: Wed Jan 15 02:16:08 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085438.D
 Acq On : 14 Jan 2025 14:56
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:41:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	202613	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	329363	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	298938	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	146196	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	313645	95.899	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	191.800%#
35) Dibromofluoromethane	8.159	113	236159	103.353	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	206.700%#
50) Toluene-d8	10.565	98	881956	108.636	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	217.280%#
62) 4-Bromofluorobenzene	12.847	95	313161	112.765	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	225.520%#

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	269023	98.065	ug/l	99
3) Chloromethane	2.359	50	275415	92.724	ug/l	98
4) Vinyl Chloride	2.512	62	282361	94.576	ug/l	99
5) Bromomethane	2.942	94	158888	88.105	ug/l	98
6) Chloroethane	3.112	64	176111	93.043	ug/l	99
7) Trichlorofluoromethane	3.494	101	423967	97.870	ug/l	100
8) Diethyl Ether	3.953	74	146889	98.154	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	239104	97.997	ug/l	99
10) Methyl Iodide	4.589	142	292983	104.856	ug/l	95
11) Tert butyl alcohol	5.512	59	173044	462.061	ug/l	99
12) 1,1-Dichloroethene	4.336	96	222117	102.146	ug/l	99
13) Acrolein	4.171	56	275350	538.600	ug/l	99
14) Allyl chloride	5.018	41	349717	99.111	ug/l	98
15) Acrylonitrile	5.712	53	585370	492.095	ug/l	99
16) Acetone	4.418	43	483221	457.268	ug/l	96
17) Carbon Disulfide	4.712	76	630294	94.140	ug/l	100
18) Methyl Acetate	5.012	43	304226	94.674	ug/l	99
19) Methyl tert-butyl Ether	5.788	73	743008	105.230	ug/l	100
20) Methylene Chloride	5.271	84	254912	97.440	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	231503	99.618	ug/l	97
22) Diisopropyl ether	6.665	45	820871	104.812	ug/l	99
23) Vinyl Acetate	6.594	43	3029568	550.850	ug/l	99
24) 1,1-Dichloroethane	6.565	63	471831	98.803	ug/l	99
25) 2-Butanone	7.477	43	764979	491.912	ug/l	98
26) 2,2-Dichloropropane	7.482	77	388140	100.530	ug/l	100
27) cis-1,2-Dichloroethene	7.482	96	280197	102.367	ug/l	99
28) Bromochloromethane	7.806	49	214796	96.679	ug/l	100
29) Tetrahydrofuran	7.830	42	503459	510.635	ug/l	99
30) Chloroform	7.959	83	484941	98.253	ug/l	100
31) Cyclohexane	8.253	56	398641	96.041	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	426782	98.578	ug/l	98
36) 1,1-Dichloropropene	8.365	75	342961	106.945	ug/l	100
37) Ethyl Acetate	7.553	43	326802	100.961	ug/l	97
38) Carbon Tetrachloride	8.359	117	378390	103.065	ug/l	97
39) Methylcyclohexane	9.594	83	371734	123.354	ug/l	99
40) Benzene	8.600	78	1021393	106.001	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085438.D
 Acq On : 14 Jan 2025 14:56
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:41:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	184326	109.454	ug/l	96
42) 1,2-Dichloroethane	8.665	62	374938	103.314	ug/l	100
43) Isopropyl Acetate	8.682	43	549969	106.035	ug/l	100
44) Trichloroethene	9.347	130	238296	106.242	ug/l	96
45) 1,2-Dichloropropane	9.618	63	256964	104.405	ug/l	97
46) Dibromomethane	9.706	93	180990	101.913	ug/l	99
47) Bromodichloromethane	9.882	83	388499	107.377	ug/l	98
48) Methyl methacrylate	9.676	41	267689	114.685	ug/l	99
49) 1,4-Dioxane	9.688	88	83879	2133.992	ug/l	97
51) 4-Methyl-2-Pentanone	10.441	43	1643800	546.159	ug/l	100
52) Toluene	10.623	92	634743	113.689	ug/l	99
53) t-1,3-Dichloropropene	10.829	75	391238	114.424	ug/l	97
54) cis-1,3-Dichloropropene	10.306	75	410403	112.369	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	229522	103.879	ug/l	98
56) Ethyl methacrylate	10.870	69	383663	101.029	ug/l	99
57) 1,3-Dichloropropane	11.159	76	412886	107.469	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	848636	605.243	ug/l	100
59) 2-Hexanone	11.194	43	1178831	556.643	ug/l	99
60) Dibromochloromethane	11.353	129	283361	106.227	ug/l	99
61) 1,2-Dibromoethane	11.465	107	230104	104.623	ug/l	98
64) Tetrachloroethene	11.100	164	209870	102.980	ug/l	98
65) Chlorobenzene	11.888	112	677679	103.482	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	241593	100.517	ug/l	99
67) Ethyl Benzene	11.959	91	1239080	116.169	ug/l	99
68) m/p-Xylenes	12.070	106	927244	235.219	ug/l	99
69) o-Xylene	12.394	106	441279	117.135	ug/l	100
70) Styrene	12.406	104	760136	121.919	ug/l	99
71) Bromoform	12.576	173	186124	108.227	ug/l #	99
73) Isopropylbenzene	12.694	105	1146752	116.221	ug/l	100
74) N-amyl acetate	12.488	43	489217	110.308	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	327767	94.039	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	310115m	104.530	ug/l	
77) Bromobenzene	12.976	156	268616	104.200	ug/l	97
78) n-propylbenzene	13.029	91	1385353	118.600	ug/l	100
79) 2-Chlorotoluene	13.123	91	822258	108.767	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	953066	116.938	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	122508	111.544	ug/l	87
82) 4-Chlorotoluene	13.217	91	832317	110.574	ug/l	99
83) tert-Butylbenzene	13.435	119	797069	116.457	ug/l	98
84) 1,2,4-Trimethylbenzene	13.476	105	971729	119.625	ug/l	100
85) sec-Butylbenzene	13.611	105	1143885	120.587	ug/l	100
86) p-Isopropyltoluene	13.723	119	960747	100.111	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	502960	105.943	ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	498709	101.341	ug/l	97
89) n-Butylbenzene	14.053	91	842368	123.781	ug/l	98
90) Hexachloroethane	14.329	117	188541	104.405	ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	470919	99.445	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	63846	100.313	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	250787	113.946	ug/l	99
94) Hexachlorobutadiene	15.500	225	112899	96.619	ug/l	99
95) Naphthalene	15.635	128	756816	115.234	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	238860	107.256	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085438.D
Acq On : 14 Jan 2025 14:56
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:41:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 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\VN011425\
 Data File : VN085438.D
 Acq On : 14 Jan 2025 14:56
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By : John Carlone 01/15/2025

Supervised By : Mahesh Dadoda 01/15/2025

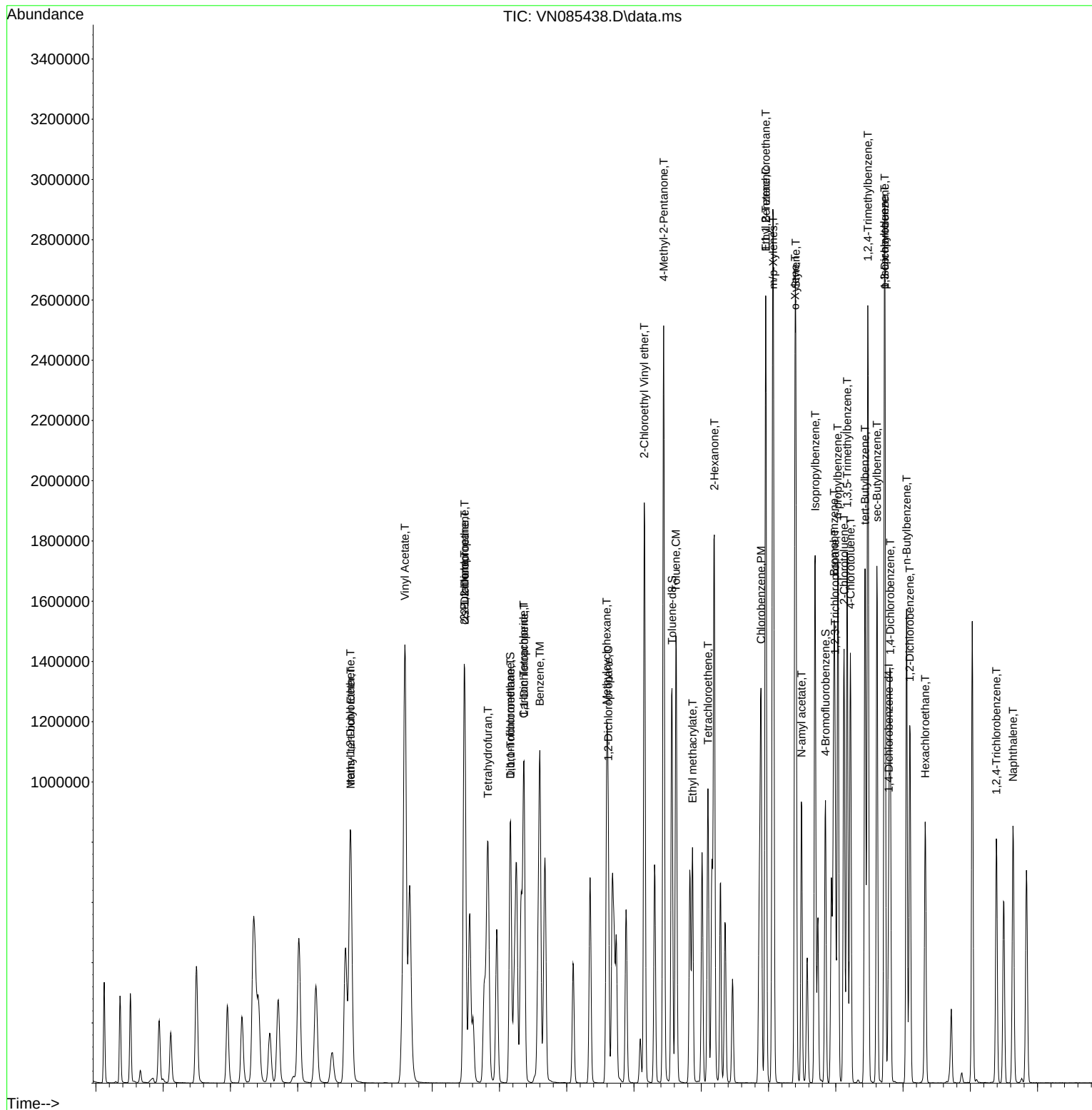
Quant Time: Jan 15 01:41:17 2025

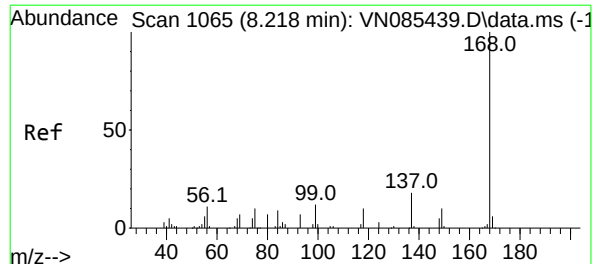
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M

Quant Title : SW846 8260

QLast Update : Wed Jan 15 01:28:51 2025

Response via : Initial Calibration





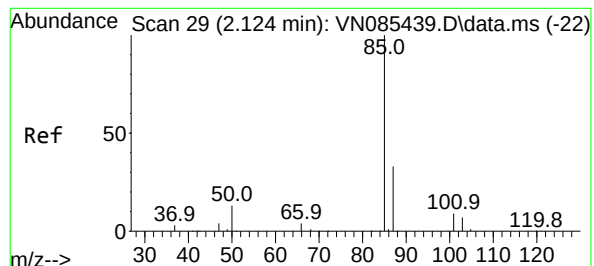
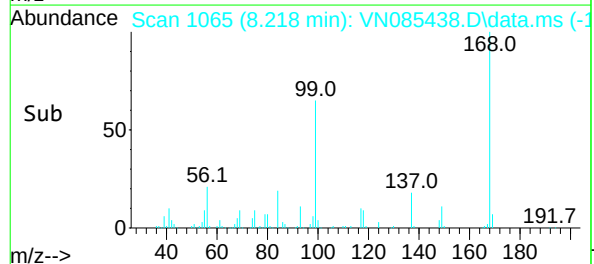
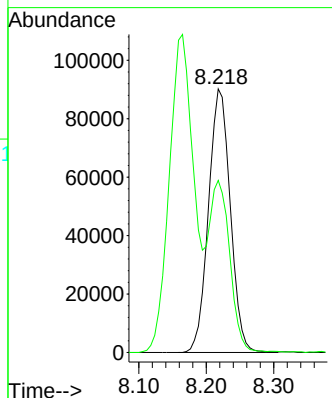
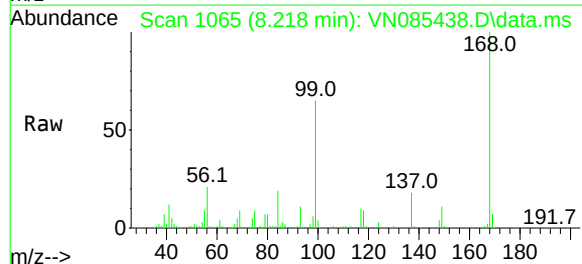
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 202613
Ion Ratio Lower Upper
168 100
99 64.9 53.6 80.4

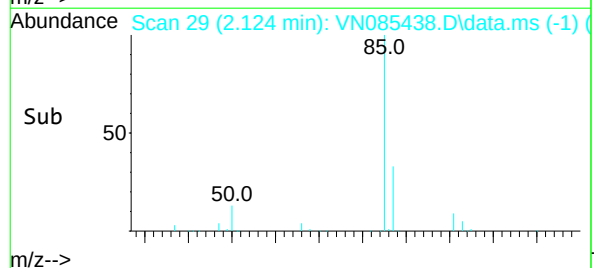
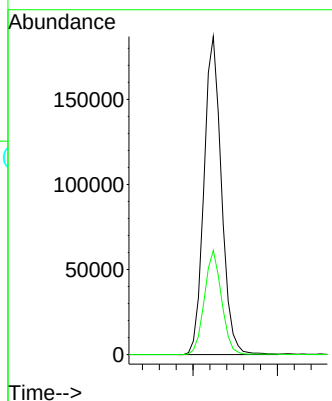
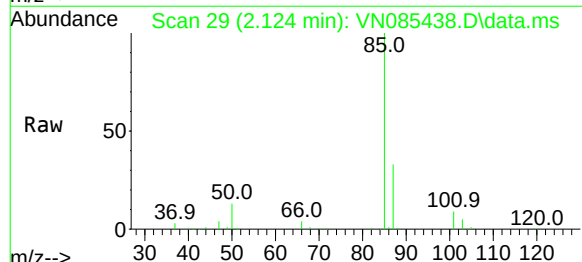
Manual Integrations
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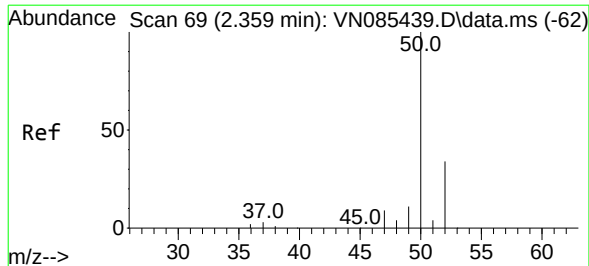
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#2
Dichlorodifluoromethane
Concen: 98.065 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

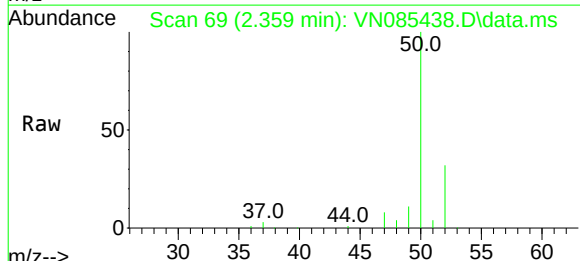
Tgt Ion: 85 Resp: 269023
Ion Ratio Lower Upper
85 100
87 32.7 16.7 50.1





#3
Chloromethane
Concen: 92.724 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

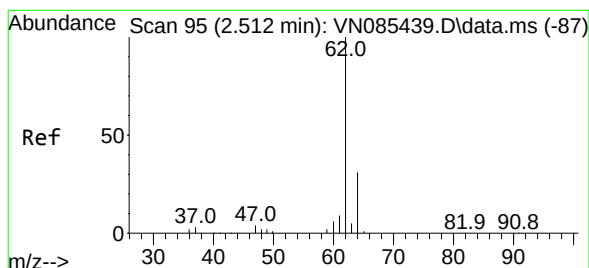
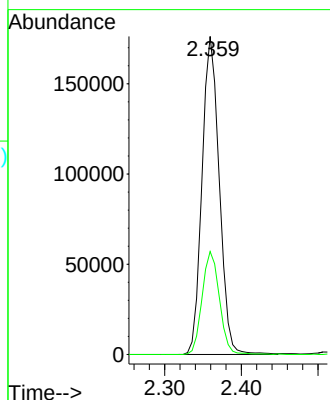
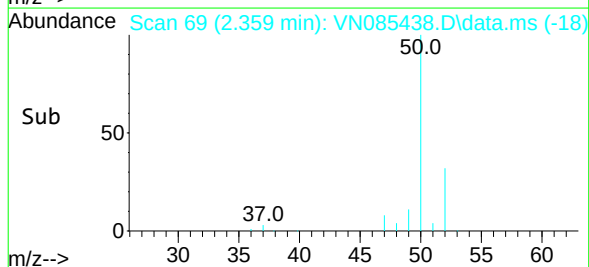
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 50 Resp: 275415
Ion Ratio Lower Upper
50 100
52 32.4 27.0 40.6

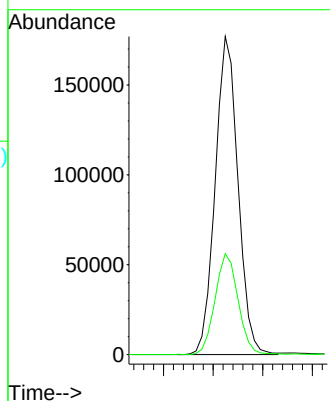
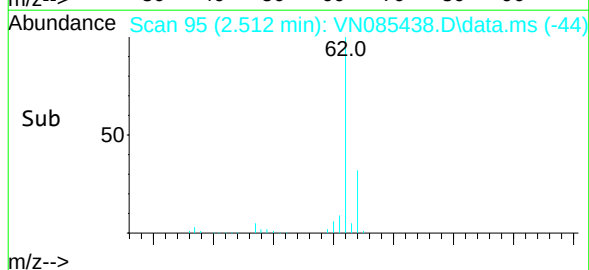
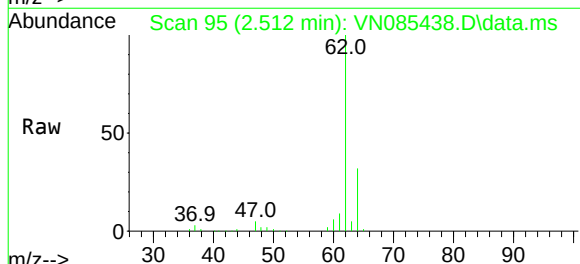
Manual Integrations
APPROVED

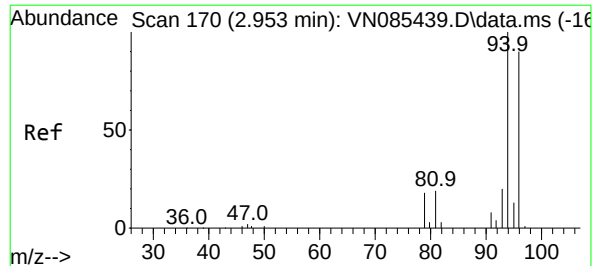
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#4
Vinyl Chloride
Concen: 94.576 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 62 Resp: 282361
Ion Ratio Lower Upper
62 100
64 31.6 24.8 37.2





#5

Bromomethane

Concen: 88.105 ug/l

RT: 2.942 min Scan# 16

Delta R.T. -0.012 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 94 Resp: 158888

Ion Ratio Lower Upper

94 100

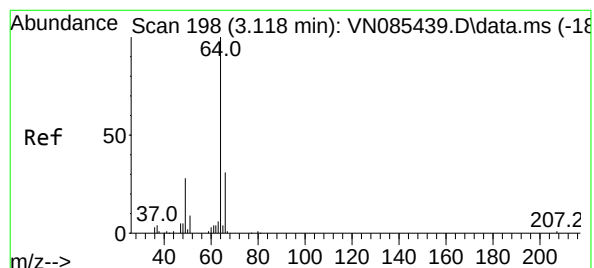
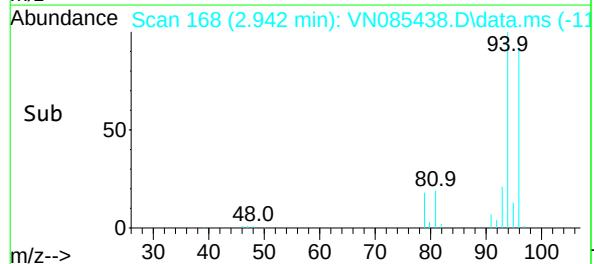
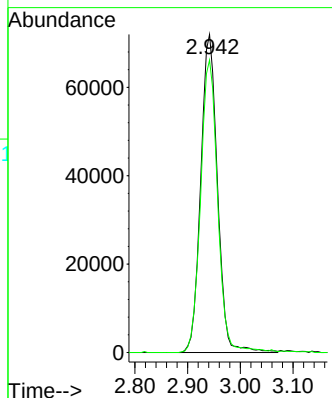
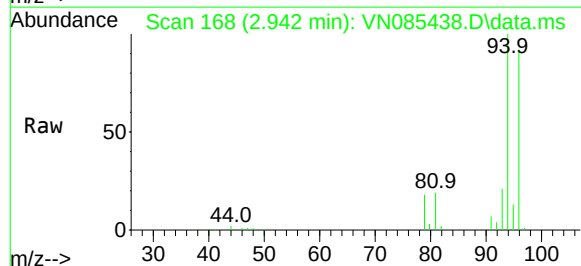
96 91.9 71.8 107.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#6

Chloroethane

Concen: 93.043 ug/l

RT: 3.112 min Scan# 197

Delta R.T. -0.006 min

Lab File: VN085438.D

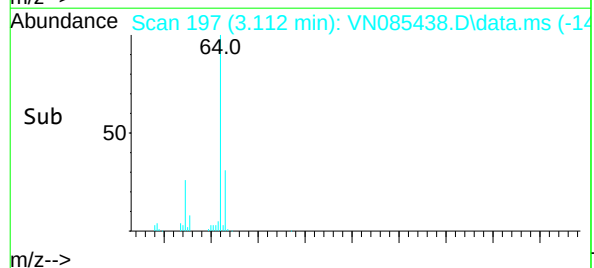
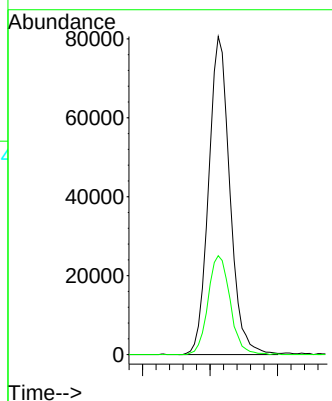
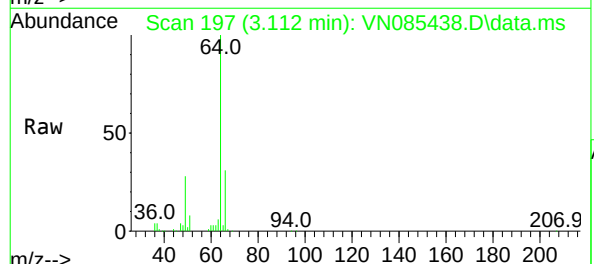
Acq: 14 Jan 2025 14:56

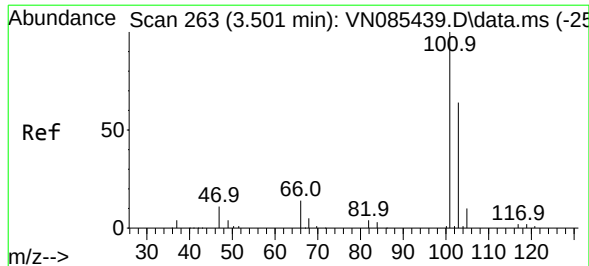
Tgt Ion: 64 Resp: 176111

Ion Ratio Lower Upper

64 100

66 31.1 24.6 36.8





#7

Trichlorofluoromethane

Concen: 97.870 ug/l

RT: 3.494 min Scan# 26

Delta R.T. -0.006 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:101 Resp: 423967

Ion Ratio Lower Upper

101 100

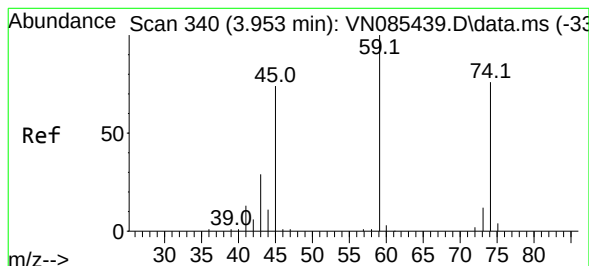
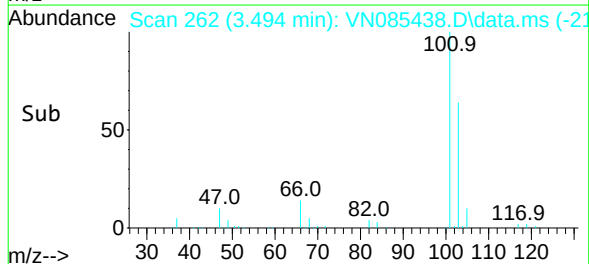
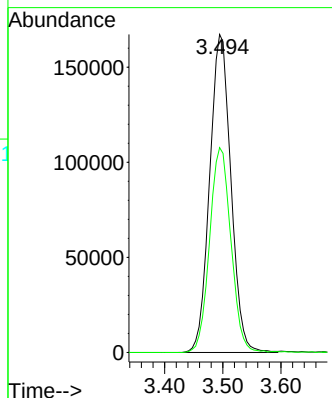
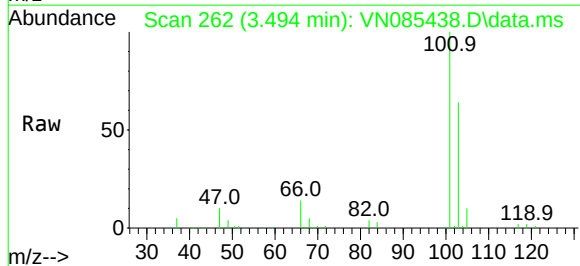
103 64.4 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#8

Diethyl Ether

Concen: 98.154 ug/l

RT: 3.953 min Scan# 340

Delta R.T. -0.000 min

Lab File: VN085438.D

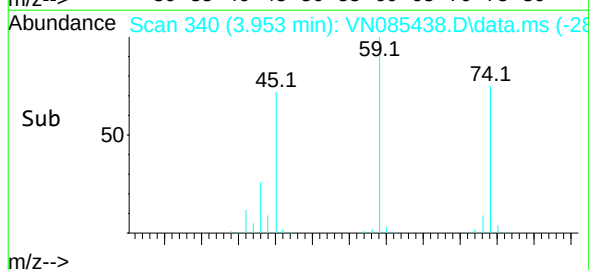
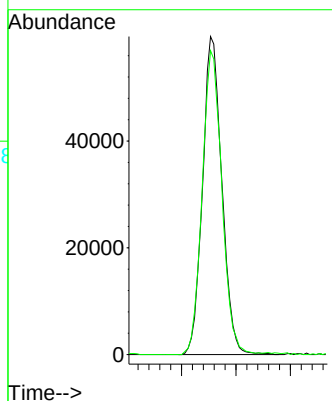
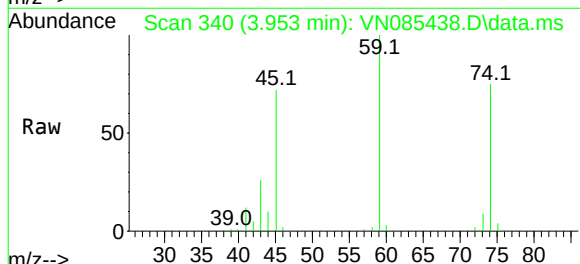
Acq: 14 Jan 2025 14:56

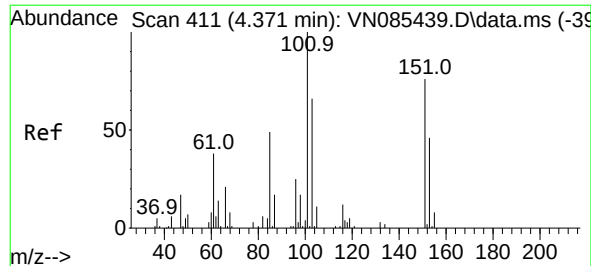
Tgt Ion: 74 Resp: 146889

Ion Ratio Lower Upper

74 100

45 97.4 49.7 149.1





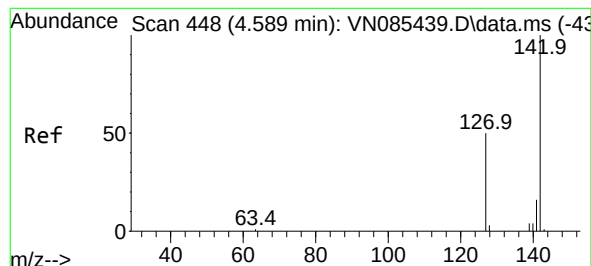
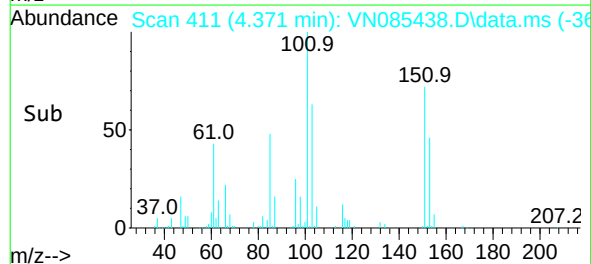
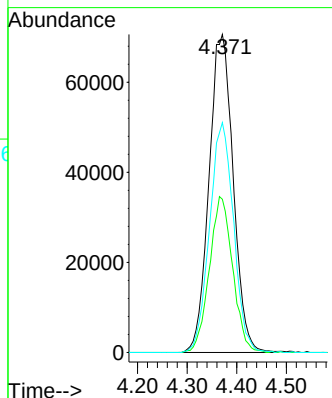
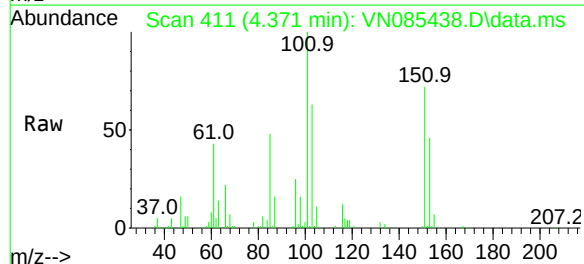
#9
1,1,2-Trichlorotrifluoroethane
Concen: 97.997 ug/l
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 239104
Ion Ratio Lower Upper
101 100
85 47.1 37.8 56.8
151 71.8 58.8 88.2

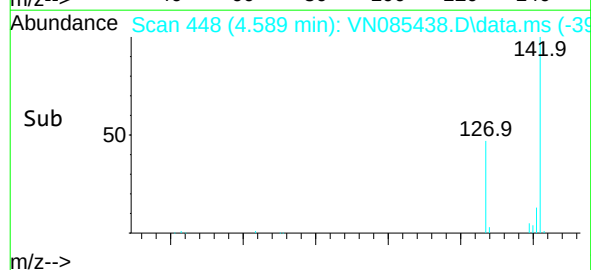
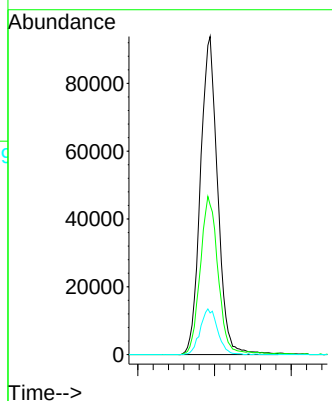
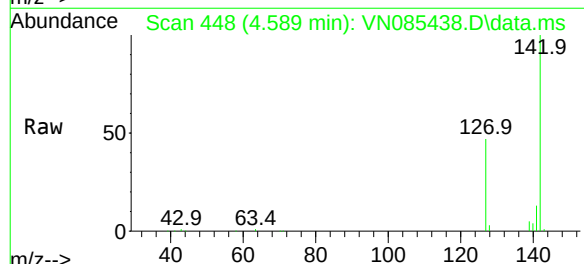
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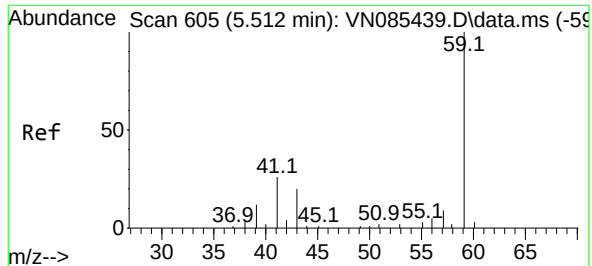
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#10
Methyl Iodide
Concen: 104.856 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:142 Resp: 292983
Ion Ratio Lower Upper
142 100
127 47.1 40.3 60.5
141 13.1 12.8 19.2





#11

Tert butyl alcohol

Concen: 462.061 ug/l

RT: 5.512 min Scan# 605

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 59 Resp: 173044

Ion Ratio Lower Upper

59 100

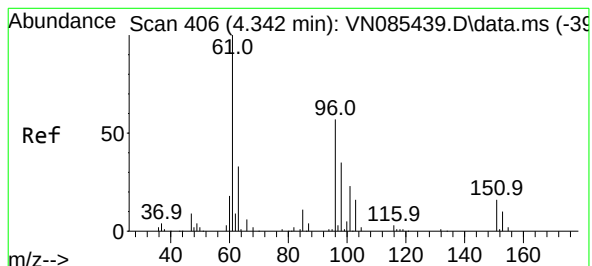
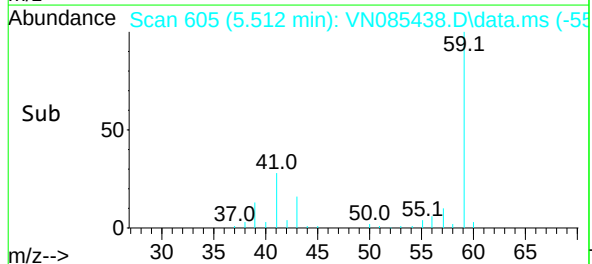
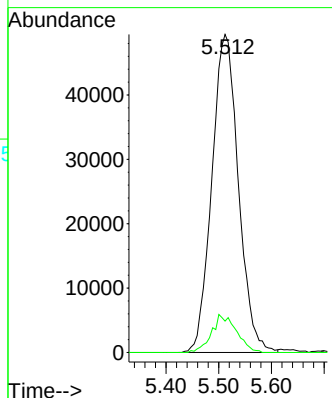
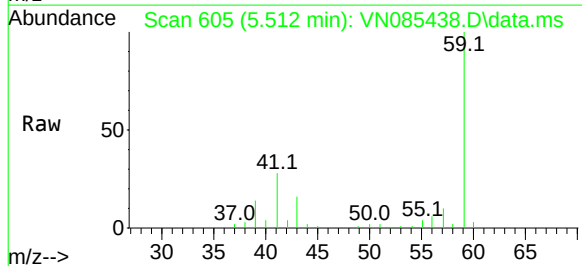
57 11.1 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#12

1,1-Dichloroethene

Concen: 102.146 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.006 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

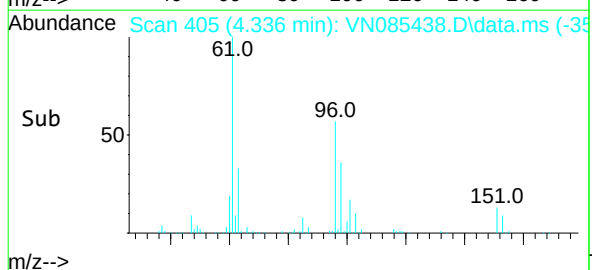
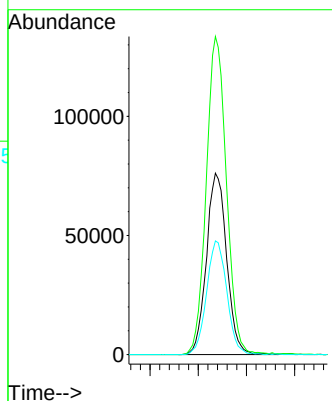
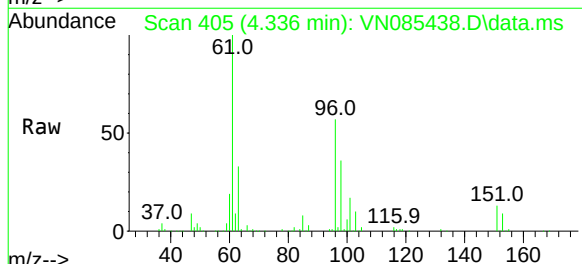
Tgt Ion: 96 Resp: 222117

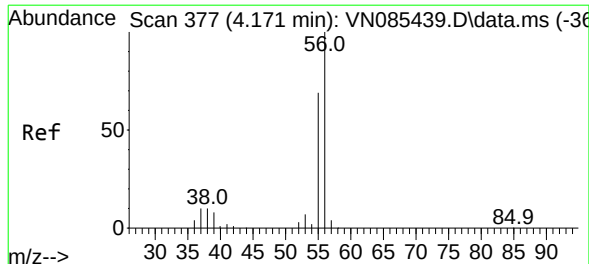
Ion Ratio Lower Upper

96 100

61 175.3 141.0 211.4

98 62.7 49.0 73.6





#13

Acrolein

Concen: 538.600 ug/l

RT: 4.171 min Scan# 377

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 275350

Ion Ratio Lower Upper

56 100

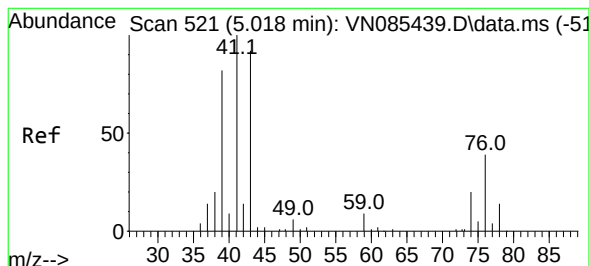
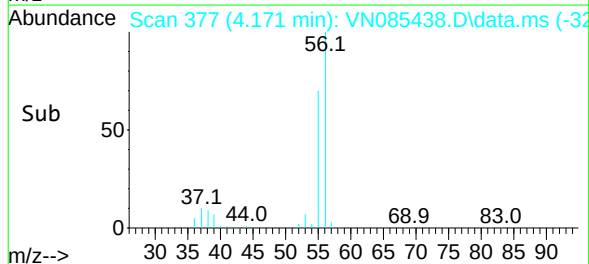
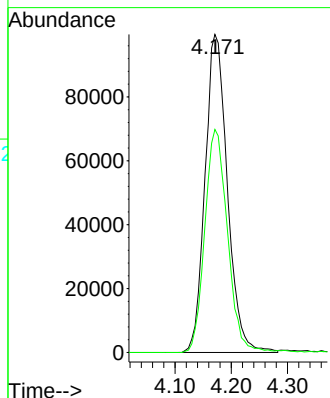
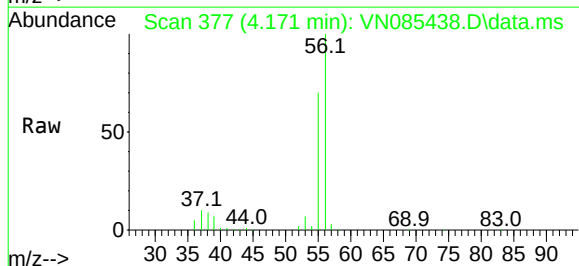
55 71.1 56.3 84.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#14

Allyl chloride

Concen: 99.111 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

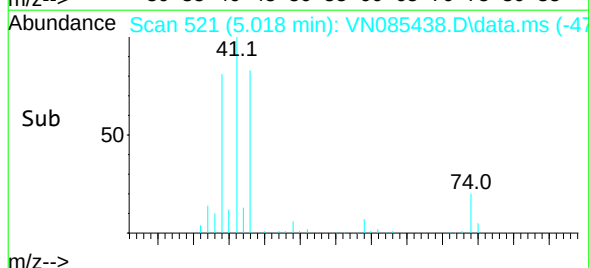
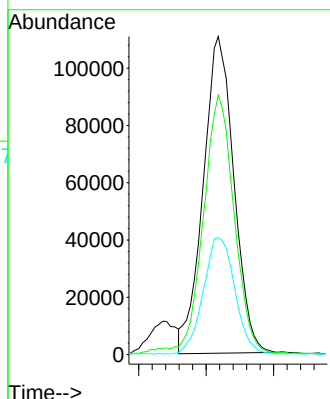
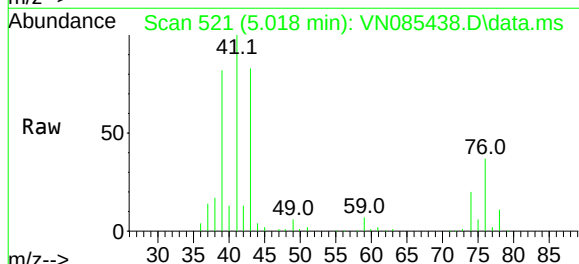
Tgt Ion: 41 Resp: 349717

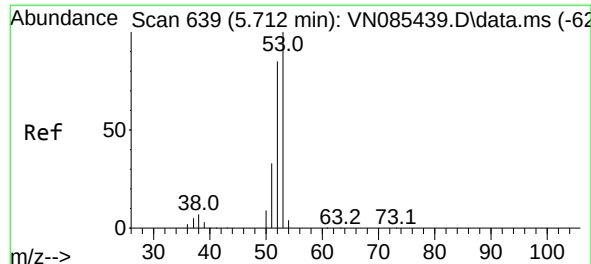
Ion Ratio Lower Upper

41 100

39 83.3 64.4 96.6

76 37.9 30.5 45.7





#15

Acrylonitrile

Concen: 492.095 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

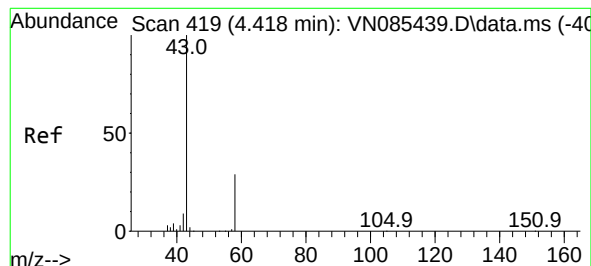
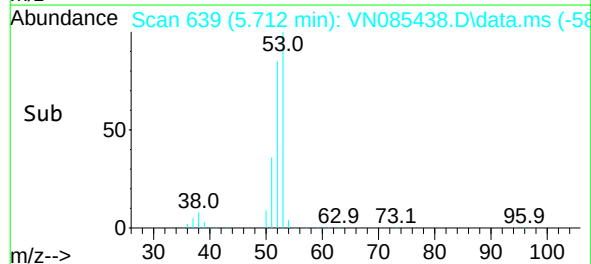
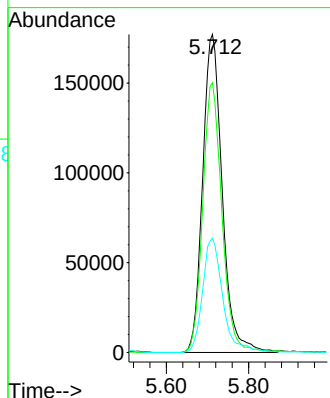
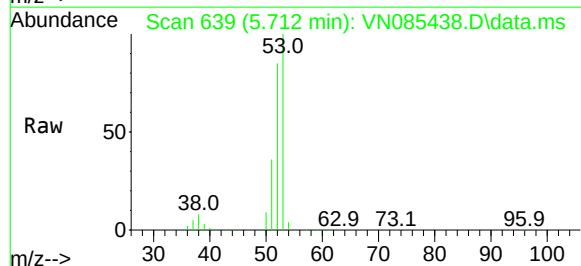
ClientSampleId :

VSTDIC100

Tgt Ion:	53	Resp:	585370
Ion	Ratio	Lower	Upper
53	100		
52	83.0	65.5	98.3
51	37.1	29.8	44.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#16

Acetone

Concen: 457.268 ug/l

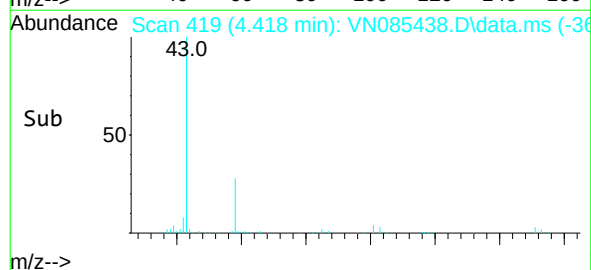
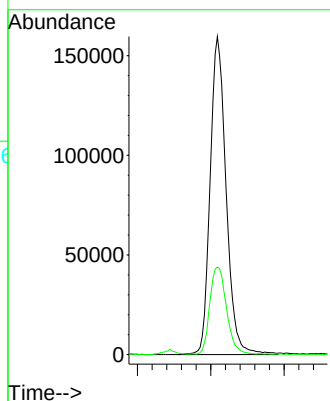
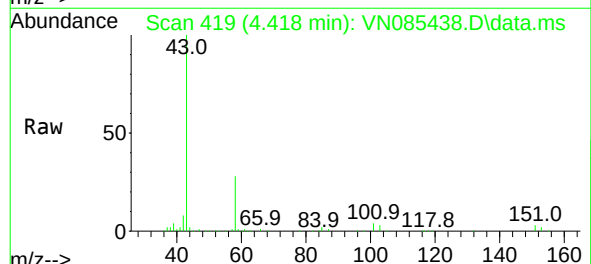
RT: 4.418 min Scan# 419

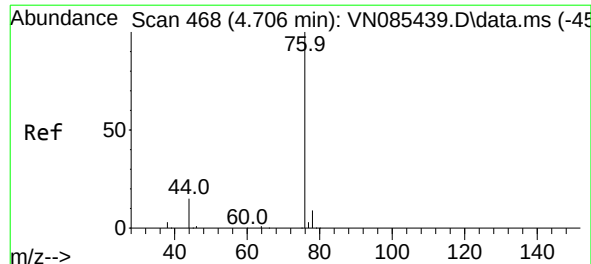
Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion:	43	Resp:	483221
Ion	Ratio	Lower	Upper
43	100		
58	27.3	23.8	35.6





#17

Carbon Disulfide

Concen: 94.140 ug/l

RT: 4.712 min Scan# 46

Delta R.T. 0.006 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion: 76 Resp: 630294

Ion Ratio Lower Upper

76 100

78 8.7 6.9 10.3

Instrument :

MSVOA_N

ClientSampleId :

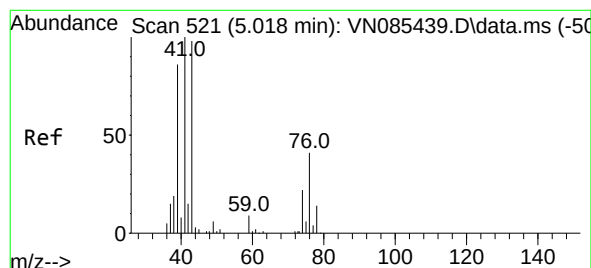
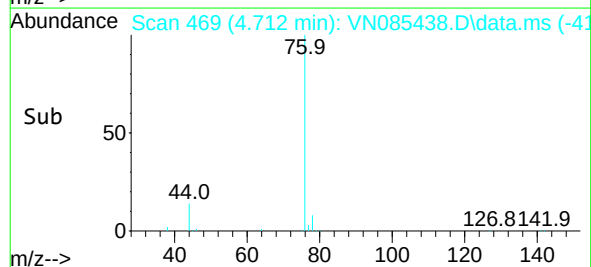
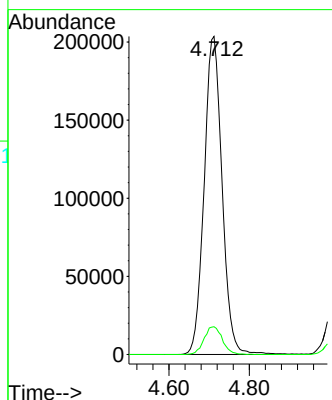
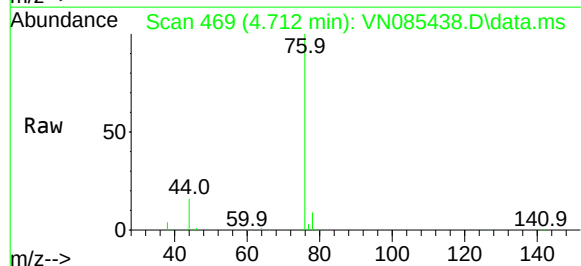
VSTDICC100

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#18

Methyl Acetate

Concen: 94.674 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.006 min

Lab File: VN085438.D

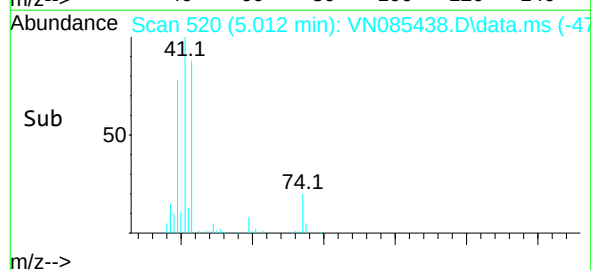
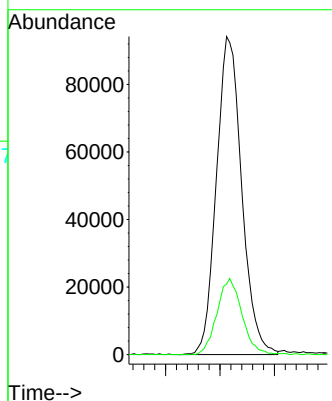
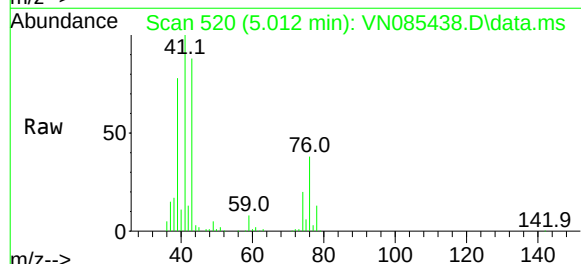
Acq: 14 Jan 2025 14:56

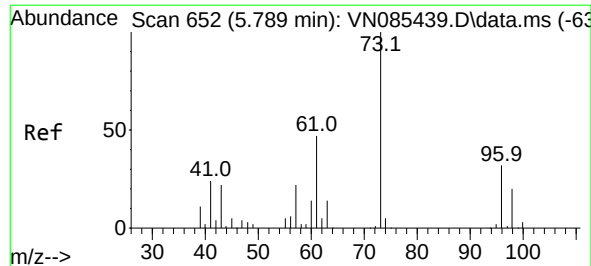
Tgt Ion: 43 Resp: 304226

Ion Ratio Lower Upper

43 100

74 23.6 18.6 28.0





#19

Methyl tert-butyl Ether

Concen: 105.230 ug/l

RT: 5.788 min Scan# 65

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 73 Resp: 743008

Ion Ratio Lower Upper

73 100

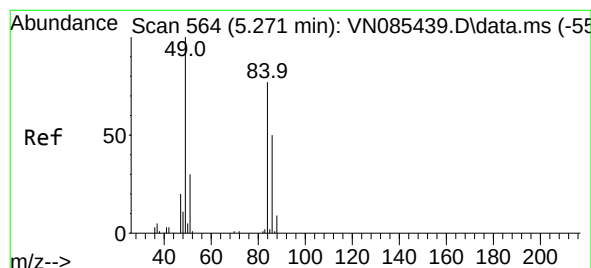
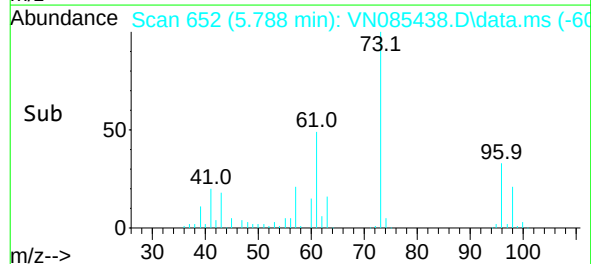
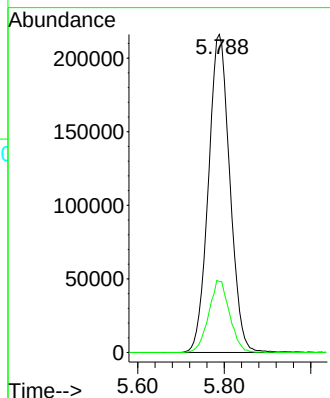
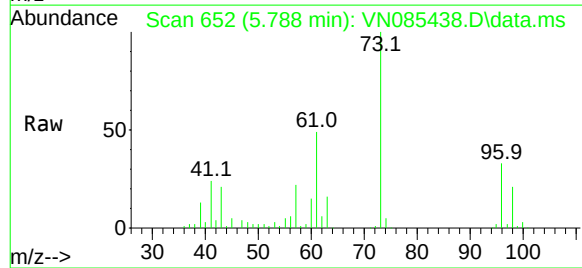
57 22.3 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#20

Methylene Chloride

Concen: 97.440 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion: 84 Resp: 254912

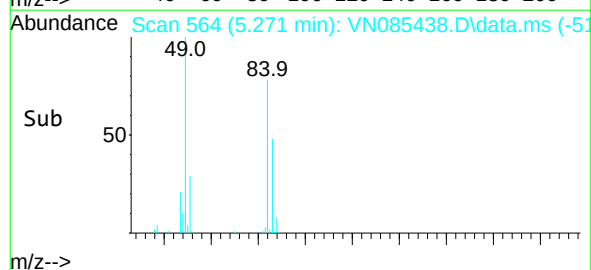
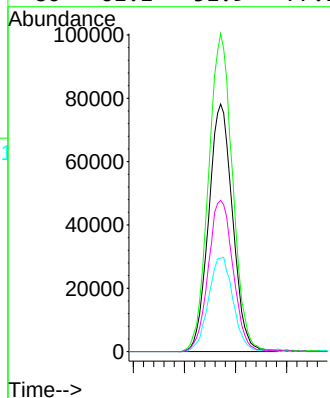
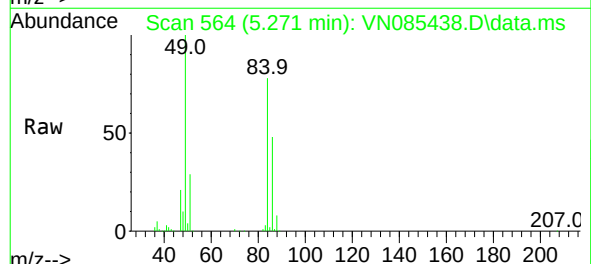
Ion Ratio Lower Upper

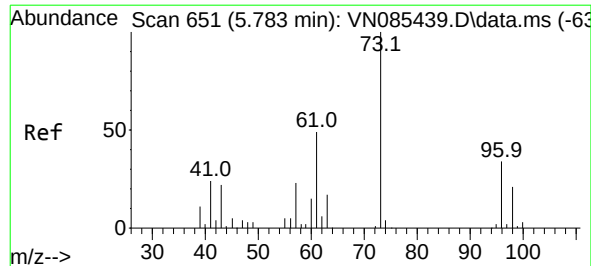
84 100

49 128.5 104.1 156.1

51 37.8 31.0 46.4

86 61.1 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 99.618 ug/l

RT: 5.783 min Scan# 651

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 96 Resp: 231503

Ion Ratio Lower Upper

96 100

61 148.3 115.7 173.5

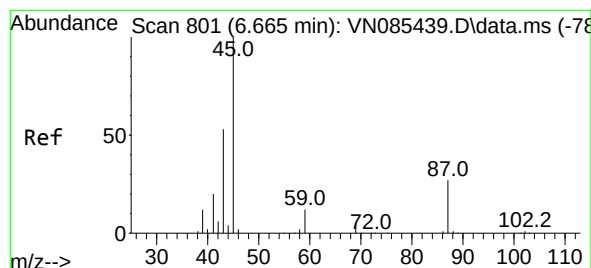
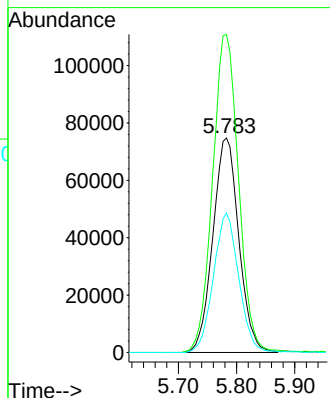
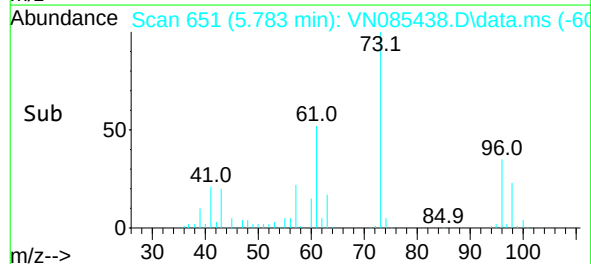
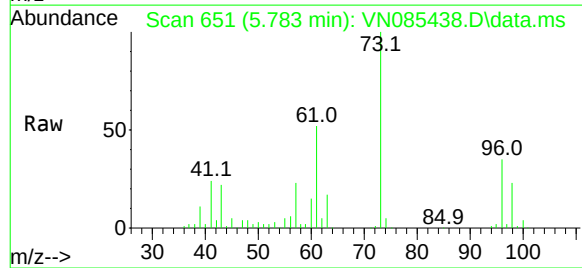
98 65.0 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#22

Diisopropyl ether

Concen: 104.812 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion: 45 Resp: 820871

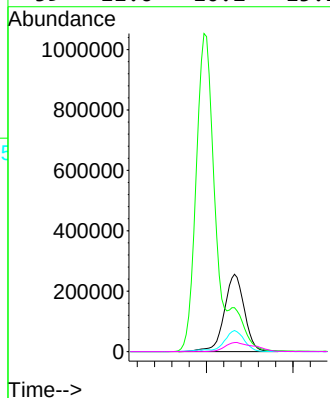
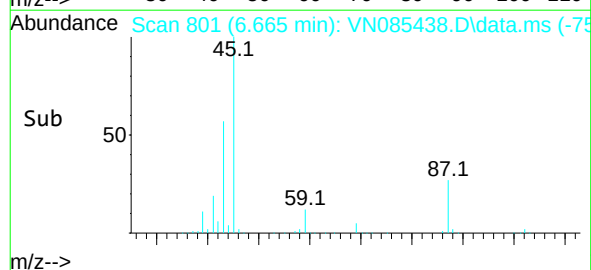
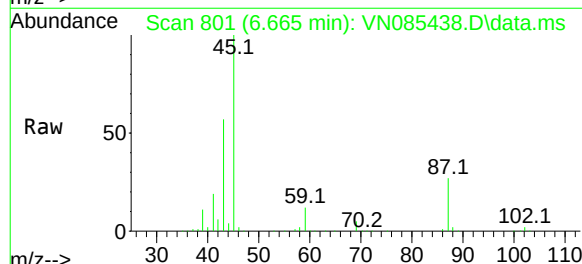
Ion Ratio Lower Upper

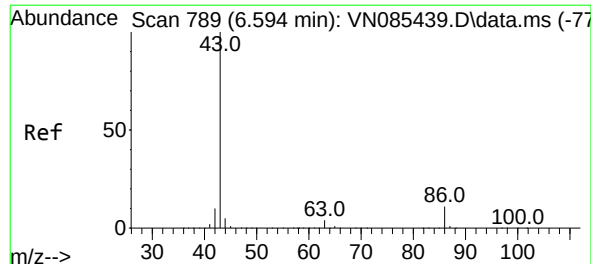
45 100

43 55.7 45.0 67.6

87 27.2 21.8 32.8

59 11.6 10.2 15.2





#23

Vinyl Acetate

Concen: 550.850 ug/l

RT: 6.594 min Scan# 789

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 3029568

Ion Ratio Lower Upper

43 100

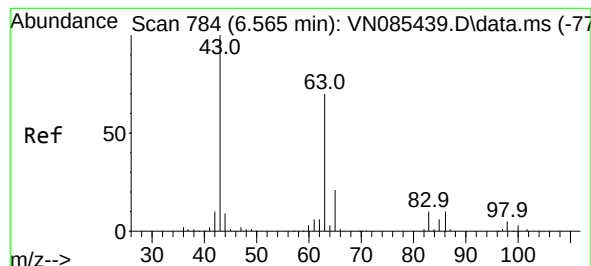
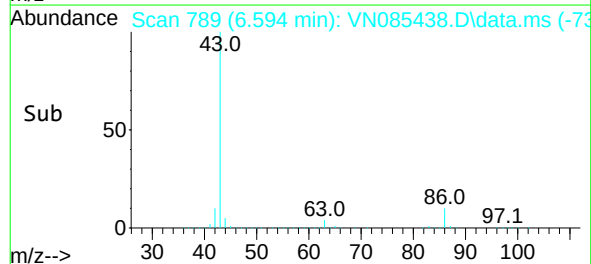
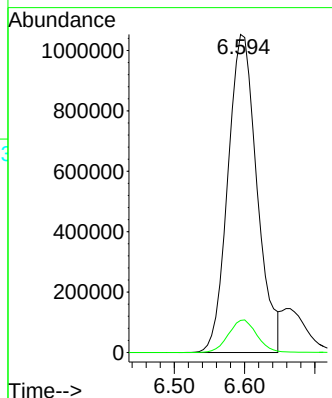
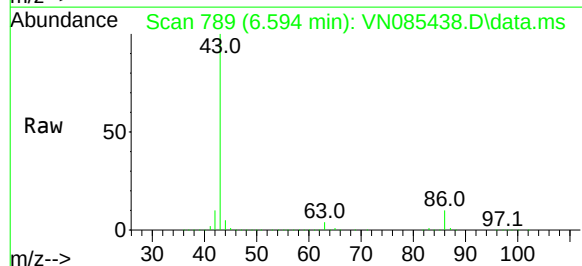
86 10.1 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#24

1,1-Dichloroethane

Concen: 98.803 ug/l

RT: 6.565 min Scan# 784

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

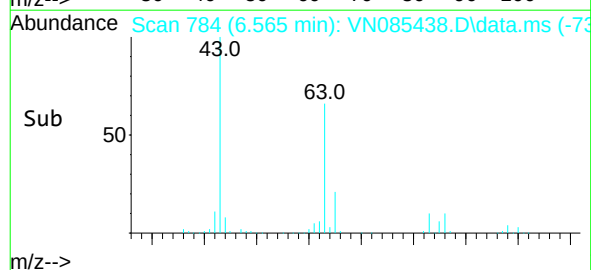
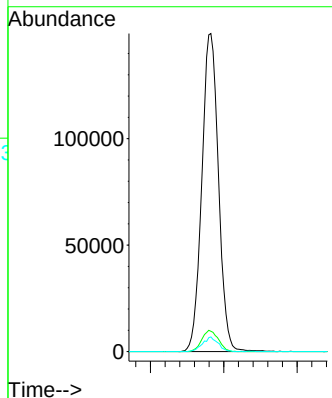
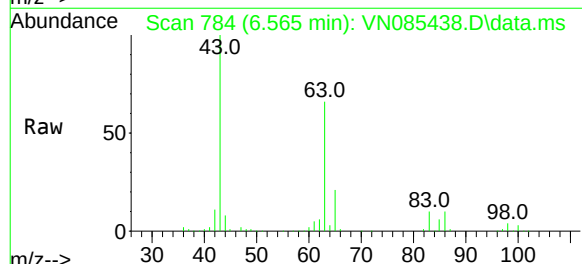
Tgt Ion: 63 Resp: 471831

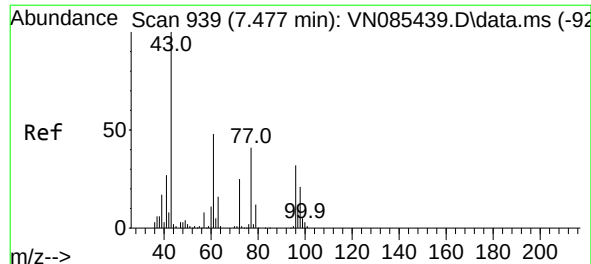
Ion Ratio Lower Upper

63 100

98 6.4 3.3 9.8

100 4.6 2.0 6.0





#25

2-Butanone

Concen: 491.912 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 764979

Ion Ratio Lower Upper

43 100

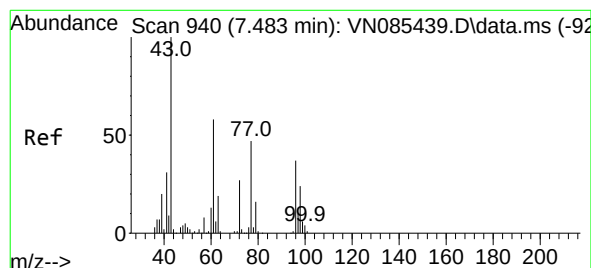
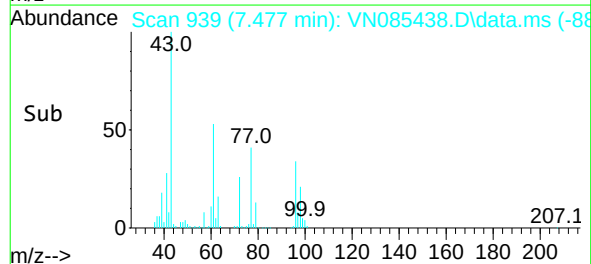
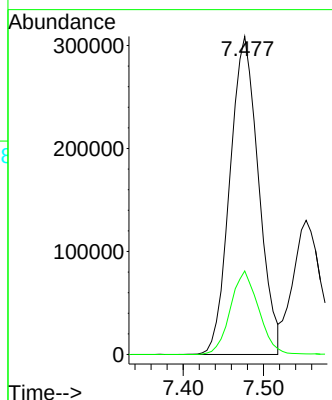
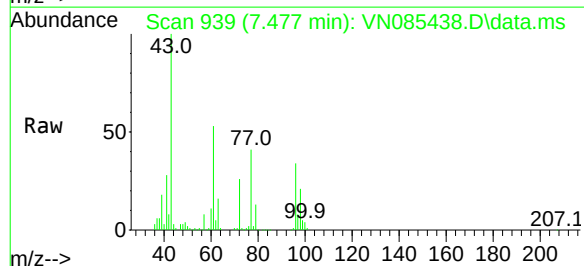
72 26.3 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#26

2,2-Dichloropropane

Concen: 100.530 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085438.D

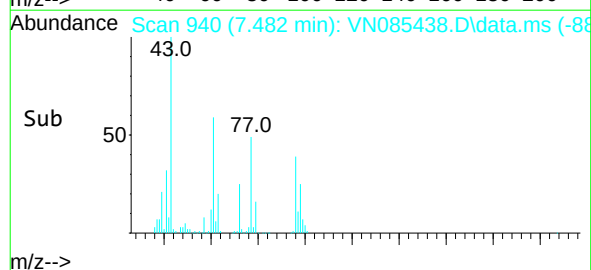
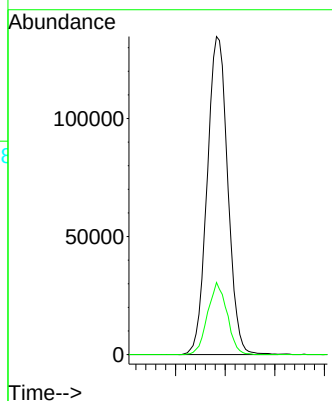
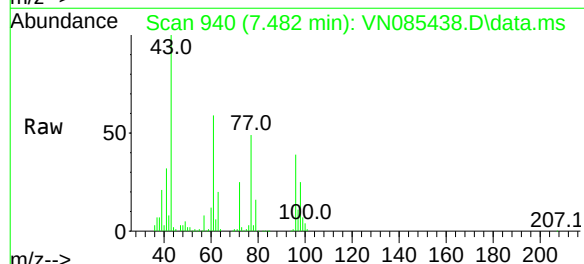
Acq: 14 Jan 2025 14:56

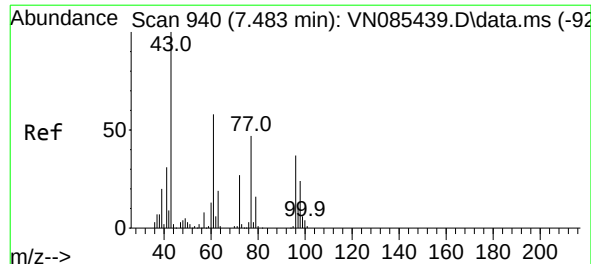
Tgt Ion: 77 Resp: 388140

Ion Ratio Lower Upper

77 100

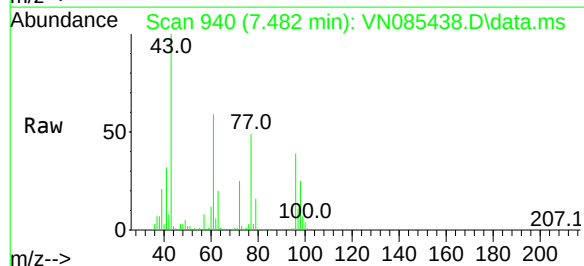
97 21.4 10.7 32.1





#27
cis-1,2-Dichloroethene
Concen: 102.367 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

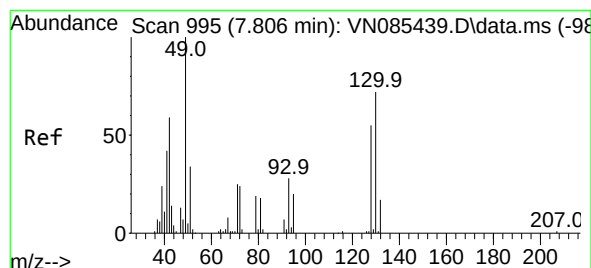
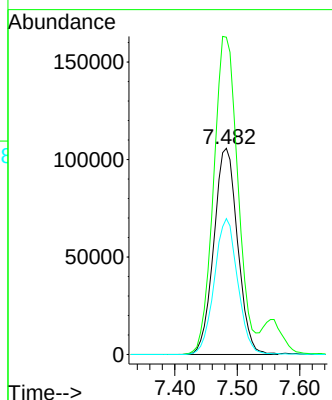
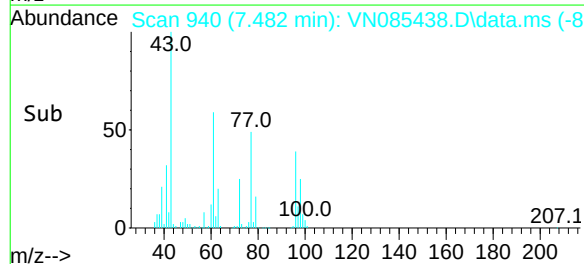
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 96 Resp: 280197
Ion Ratio Lower Upper
96 100
61 156.8 0.0 311.8
98 65.0 0.0 126.0

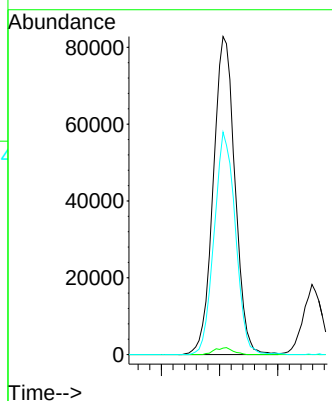
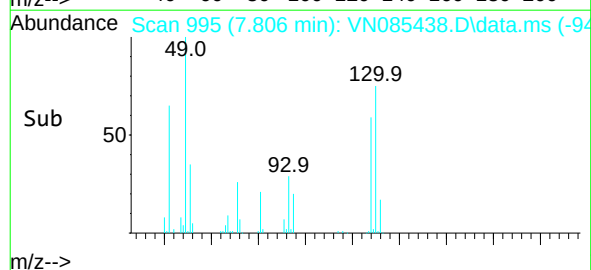
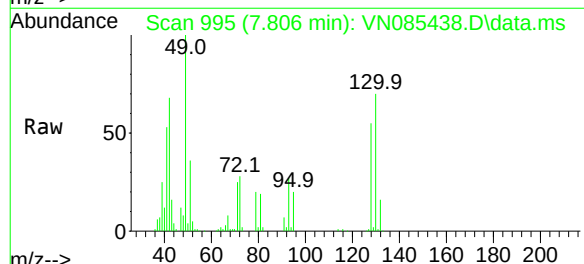
Manual Integrations
APPROVED

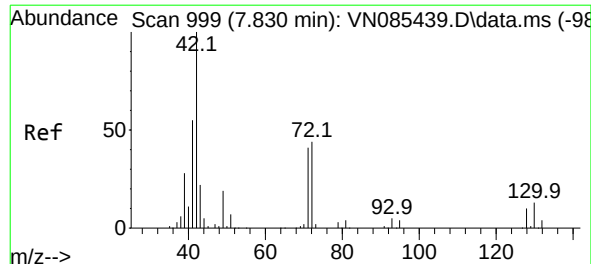
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#28
Bromochloromethane
Concen: 96.679 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 49 Resp: 214796
Ion Ratio Lower Upper
49 100
129 1.9 0.0 4.4
130 68.4 55.0 82.4





#29

Tetrahydrofuran

Concen: 510.635 ug/l

RT: 7.830 min Scan# 999

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 42 Resp: 503459

Ion Ratio Lower Upper

42 100

72 43.1 34.2 51.2

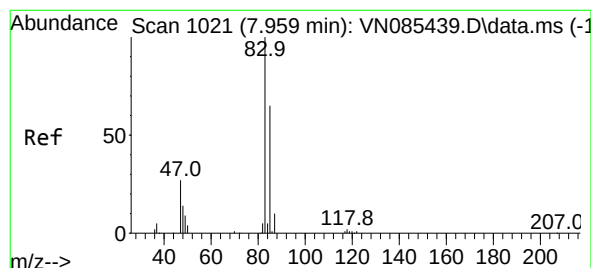
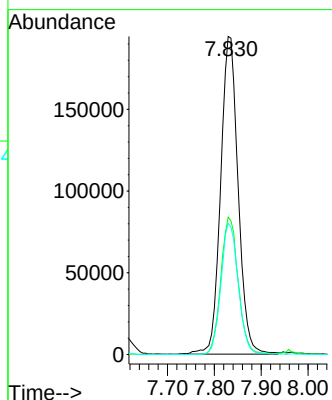
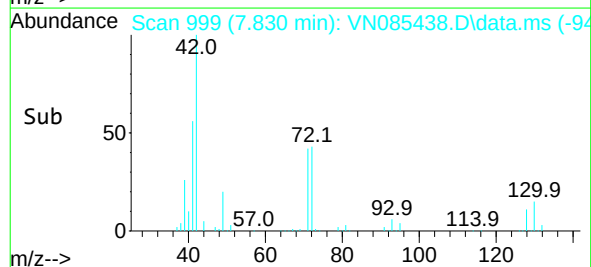
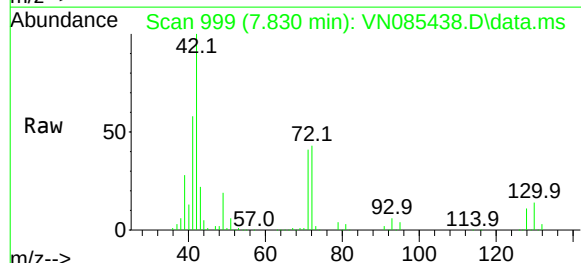
71 40.9 32.5 48.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#30

Chloroform

Concen: 98.253 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.000 min

Lab File: VN085438.D

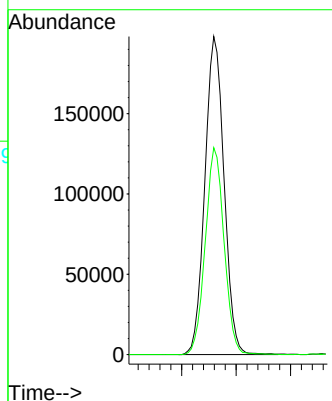
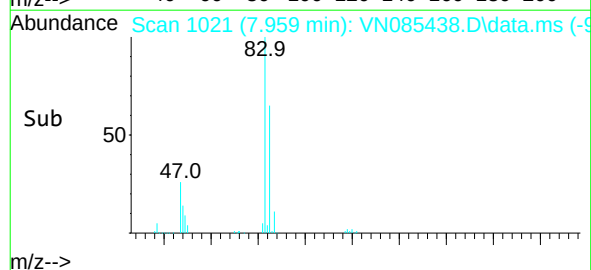
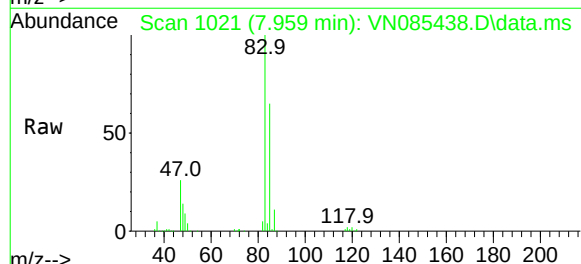
Acq: 14 Jan 2025 14:56

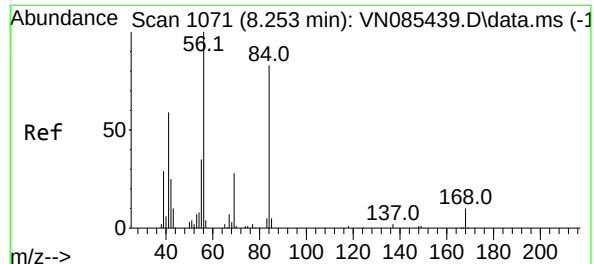
Tgt Ion: 83 Resp: 484941

Ion Ratio Lower Upper

83 100

85 65.0 51.8 77.6





#31

Cyclohexane

Concen: 96.041 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 56 Resp: 398641

Ion Ratio Lower Upper

56 100

69 29.2 22.2 33.4

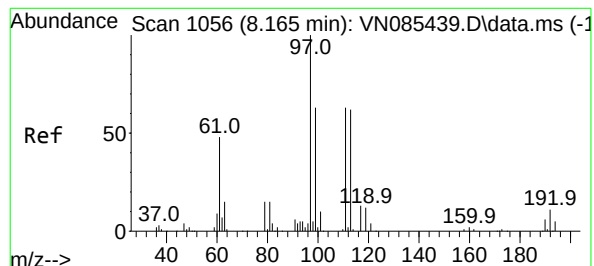
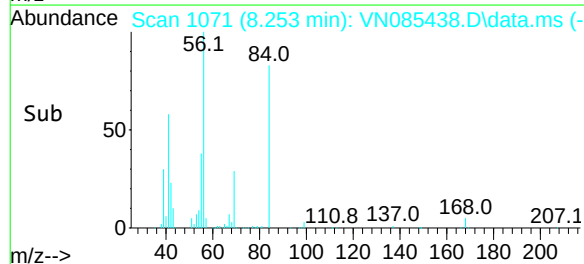
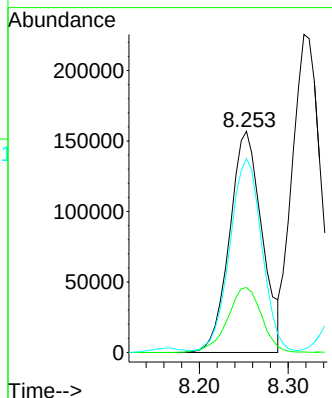
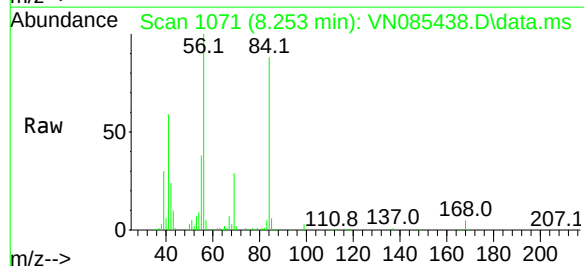
84 86.4 66.4 99.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#32

1,1,1-Trichloroethane

Concen: 98.578 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

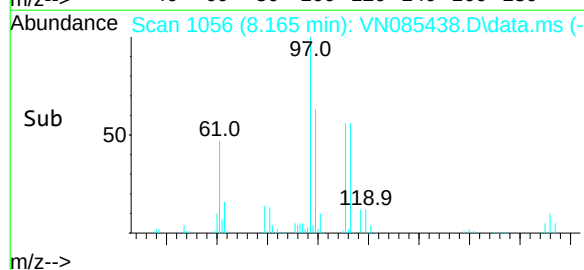
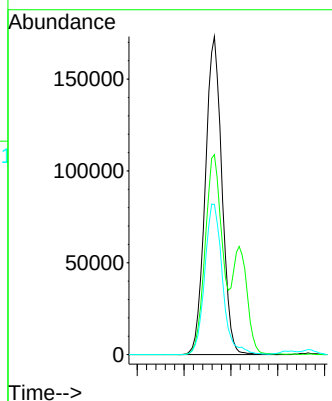
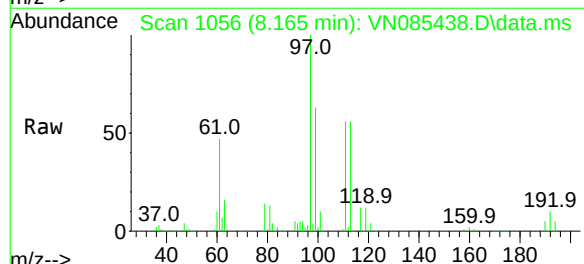
Tgt Ion: 97 Resp: 426782

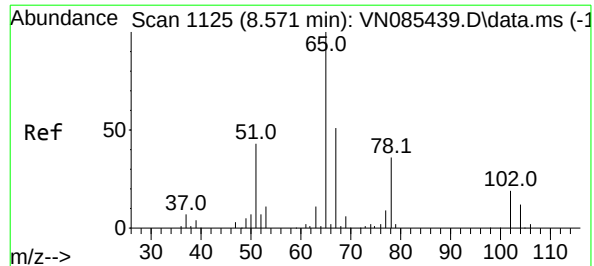
Ion Ratio Lower Upper

97 100

99 64.2 49.8 74.6

61 50.6 41.4 62.2





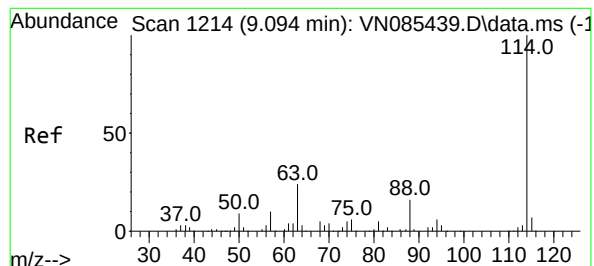
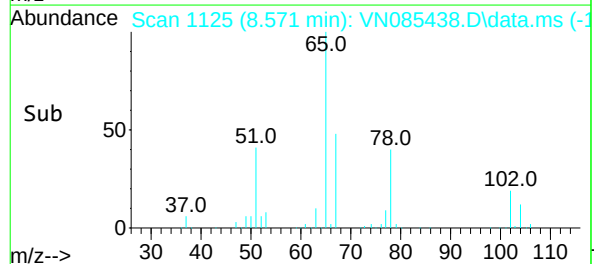
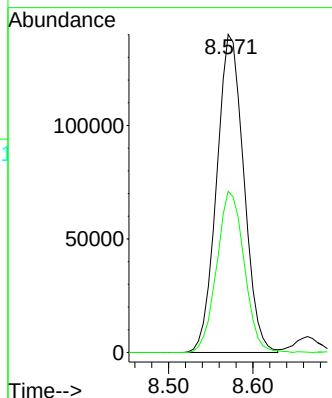
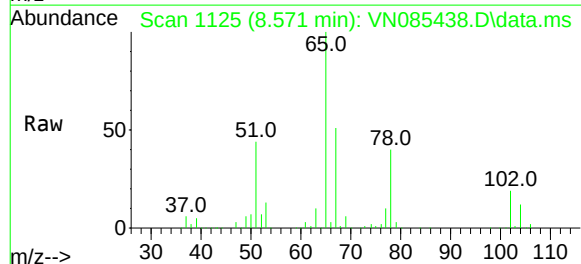
#33
1,2-Dichloroethane-d4
Concen: 95.899 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 65 Resp: 313645
Ion Ratio Lower Upper
65 100
67 51.1 0.0 101.6

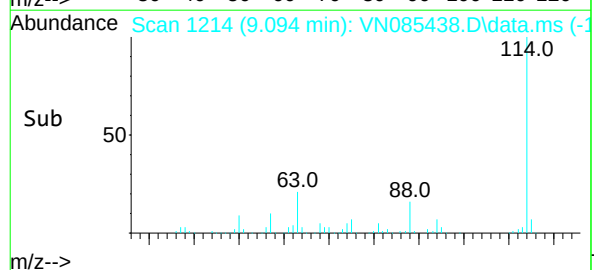
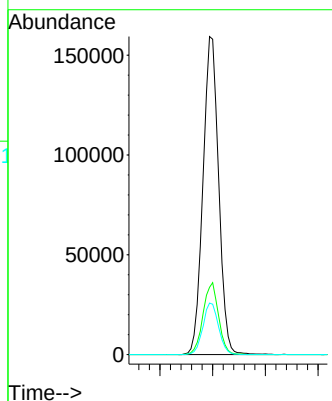
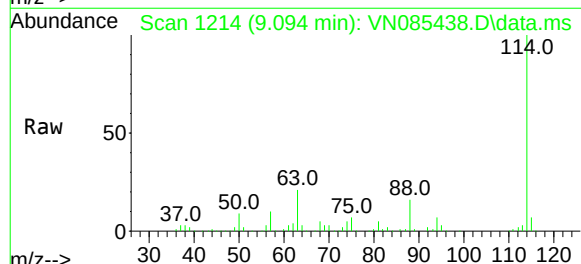
Manual Integrations
APPROVED

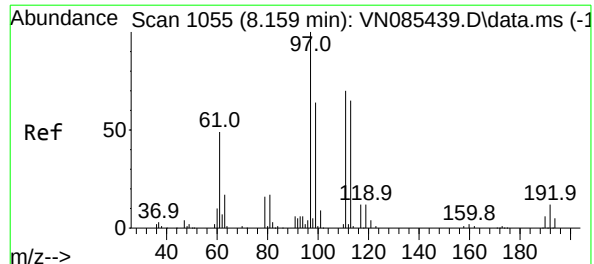
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:114 Resp: 329363
Ion Ratio Lower Upper
114 100
63 21.2 0.0 47.6
88 16.2 0.0 32.6





#35

Dibromofluoromethane

Concen: 103.353 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 113 Resp: 236159

Ion Ratio Lower Upper

113 100

111 102.3 82.7 124.1

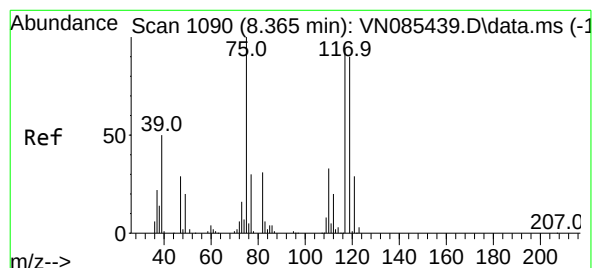
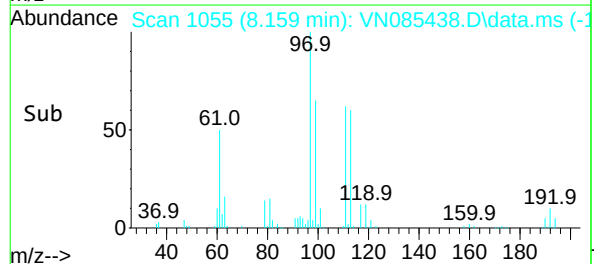
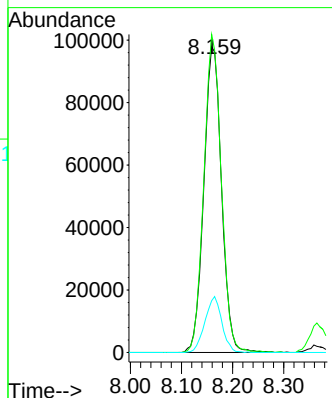
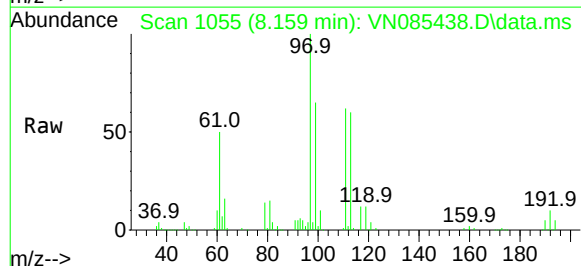
192 17.4 14.3 21.5

Manual Integrations

APPROVED

Reviewed By : John Carlone 01/15/2025

Supervised By : Mahesh Dadoda 01/15/2025



#36

1,1-Dichloropropene

Concen: 106.945 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

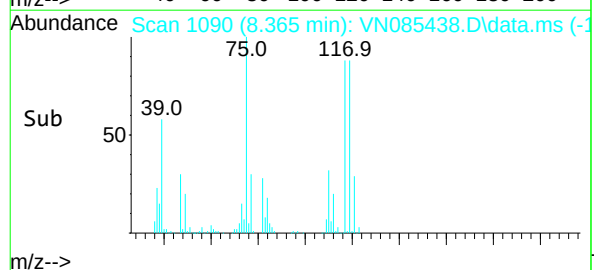
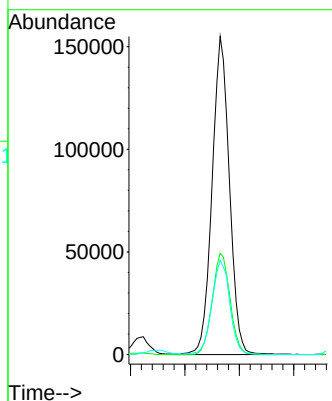
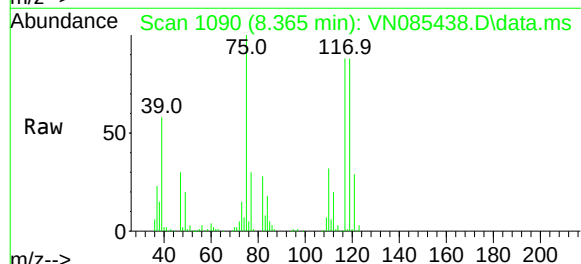
Tgt Ion: 75 Resp: 342961

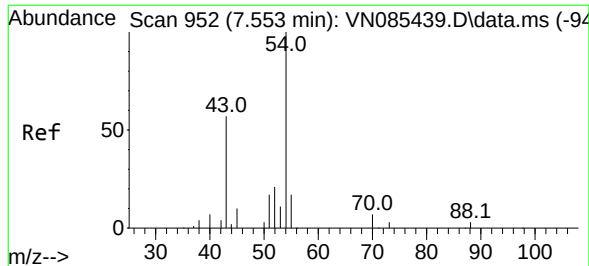
Ion Ratio Lower Upper

75 100

110 32.6 16.5 49.5

77 30.6 24.4 36.6





#37

Ethyl Acetate

Concen: 100.961 ug/l

RT: 7.553 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 326802

Ion Ratio Lower Upper

43 100

61 12.0 10.9 16.3

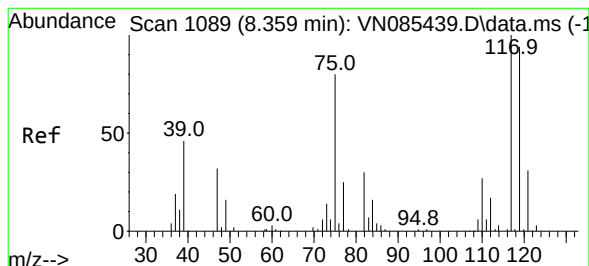
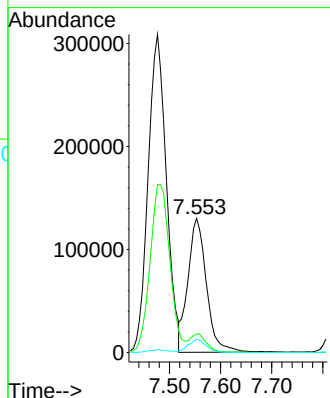
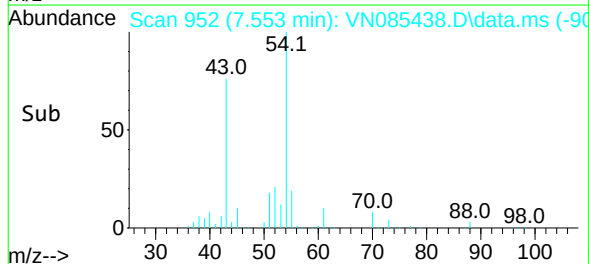
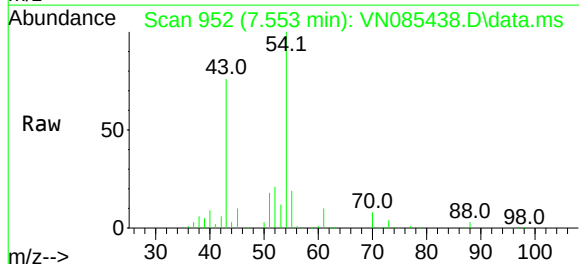
70 9.6 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#38

Carbon Tetrachloride

Concen: 103.065 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

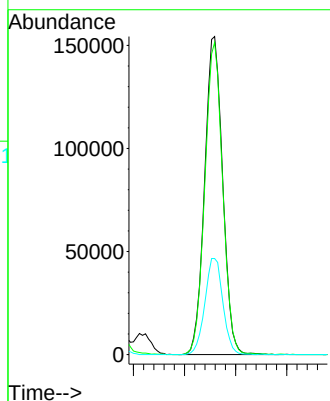
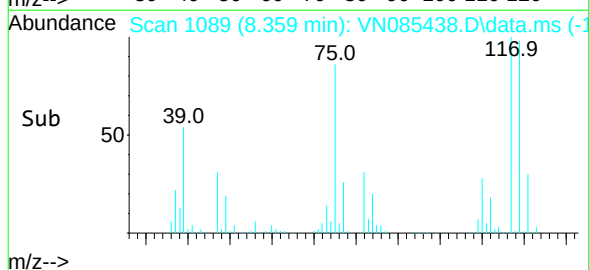
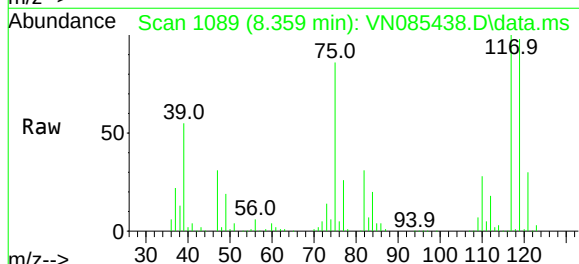
Tgt Ion:117 Resp: 378390

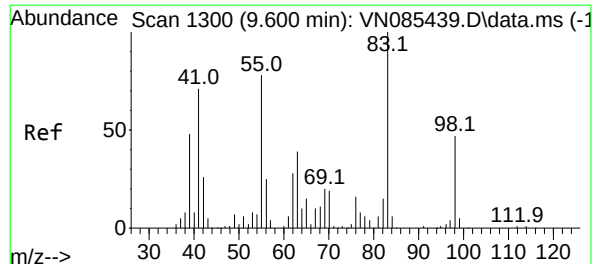
Ion Ratio Lower Upper

117 100

119 98.1 75.4 113.2

121 30.2 24.6 37.0





#39

Methylcyclohexane

Concen: 123.354 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. -0.006 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 371734

Ion Ratio Lower Upper

83 100

55 79.3 62.6 94.0

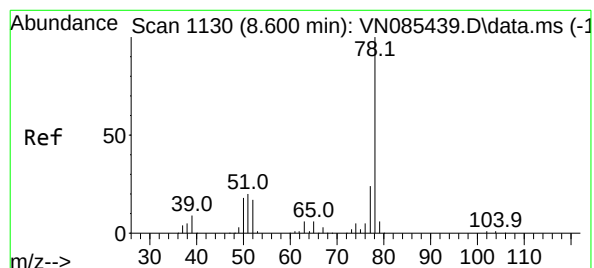
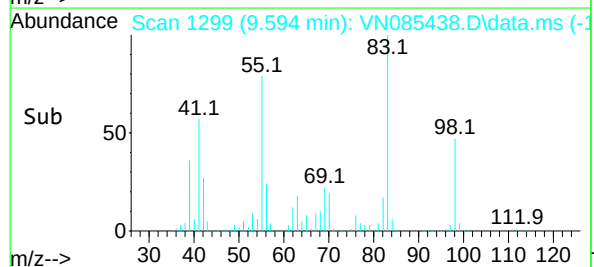
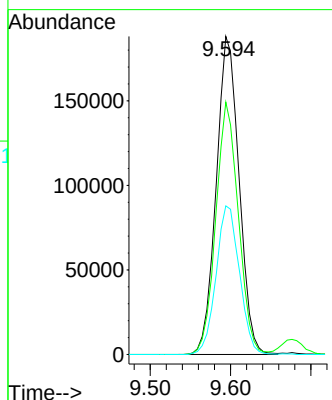
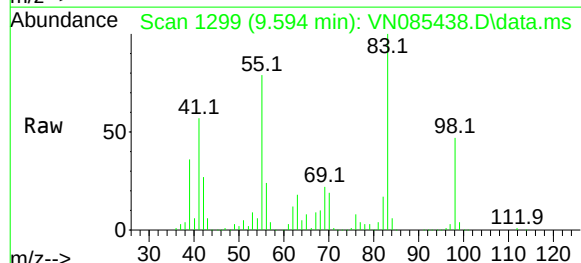
98 46.7 37.7 56.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#40

Benzene

Concen: 106.001 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085438.D

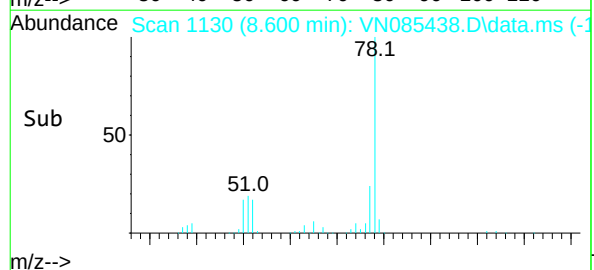
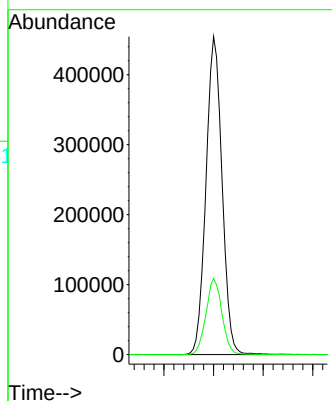
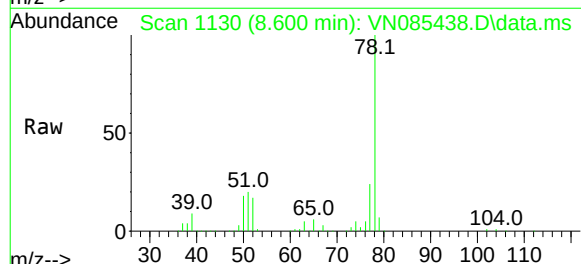
Acq: 14 Jan 2025 14:56

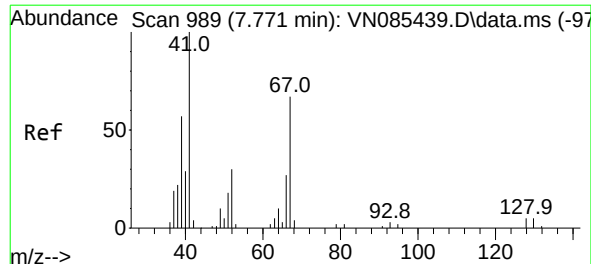
Tgt Ion: 78 Resp: 1021393

Ion Ratio Lower Upper

78 100

77 23.9 19.0 28.6





#41

Methacrylonitrile

Concen: 109.454 ug/l

RT: 7.777 min Scan# 99

Delta R.T. 0.006 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 41 Resp: 184326

Ion Ratio Lower Upper

41 100

39 52.8 46.0 69.0

67 68.8 57.4 86.2

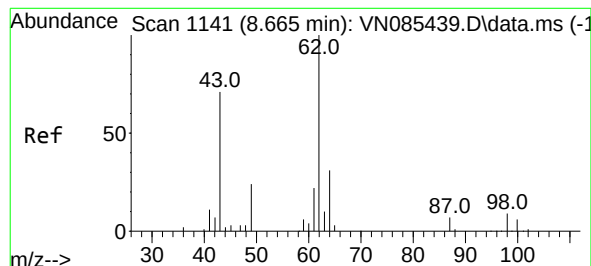
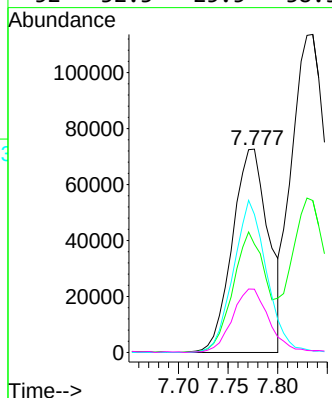
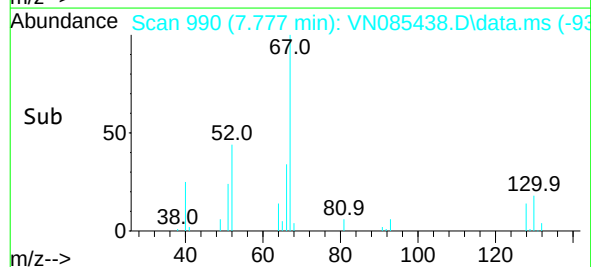
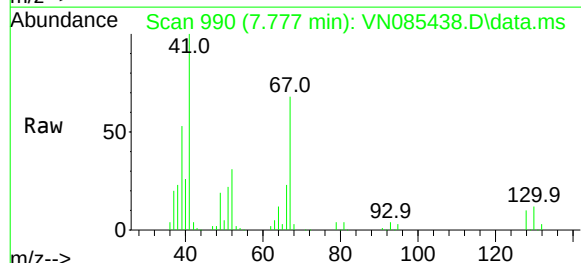
52 32.3 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#42

1,2-Dichloroethane

Concen: 103.314 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN085438.D

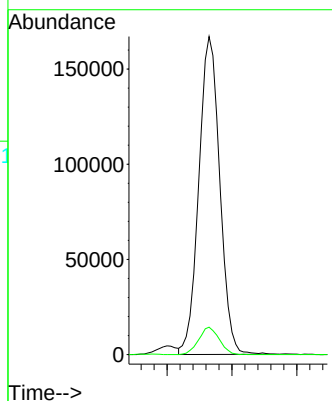
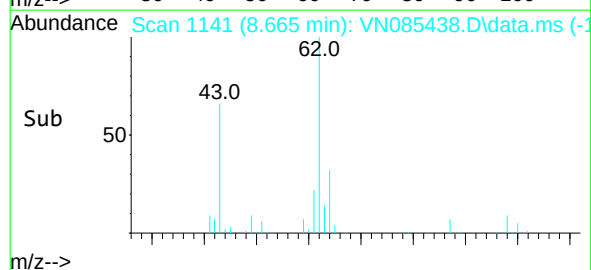
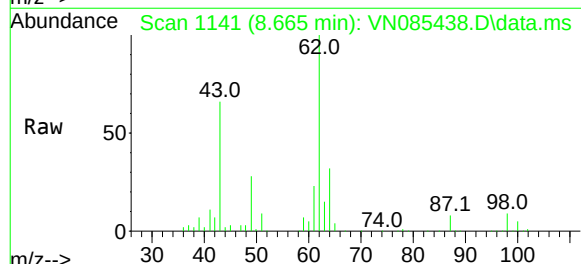
Acq: 14 Jan 2025 14:56

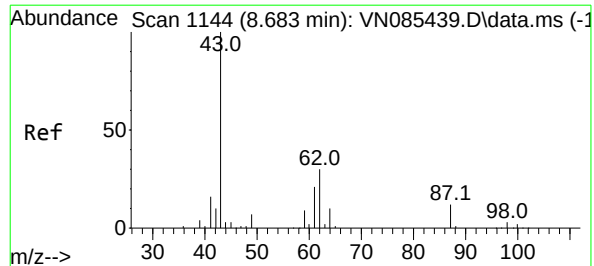
Tgt Ion: 62 Resp: 374938

Ion Ratio Lower Upper

62 100

98 8.4 0.0 17.0





#43

Isopropyl Acetate

Concen: 106.035 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 549969

Ion Ratio Lower Upper

43 100

61 25.7 20.7 31.1

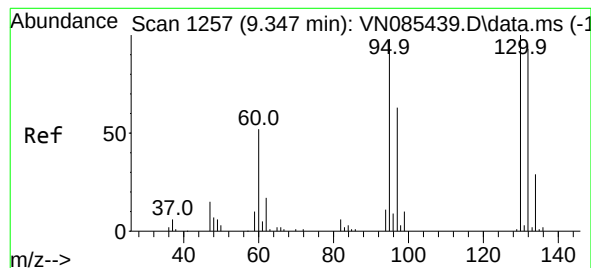
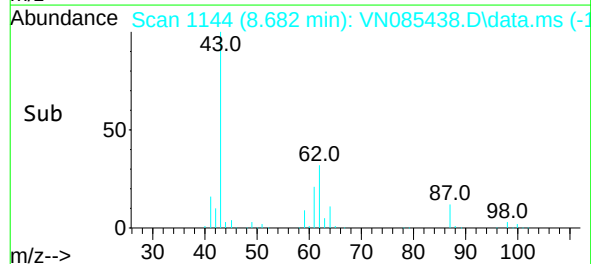
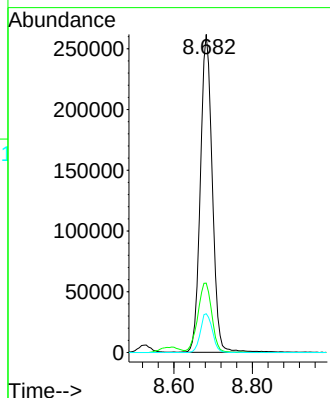
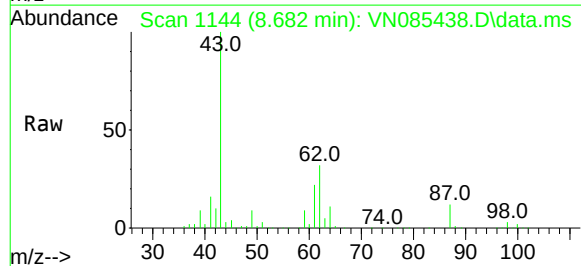
87 12.2 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#44

Trichloroethene

Concen: 106.242 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.000 min

Lab File: VN085438.D

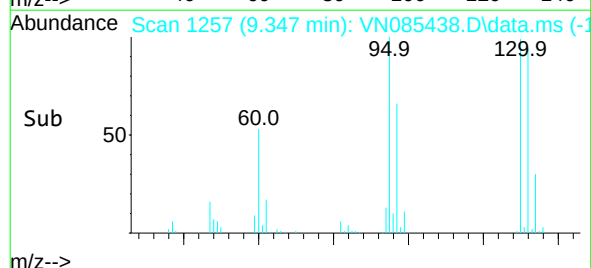
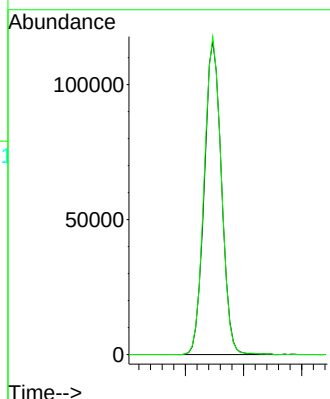
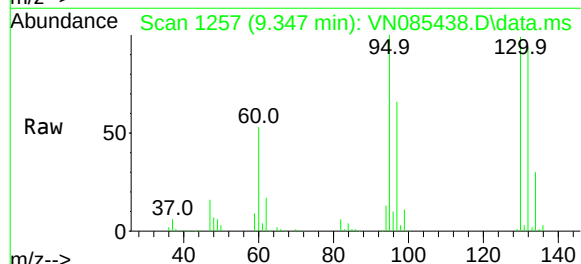
Acq: 14 Jan 2025 14:56

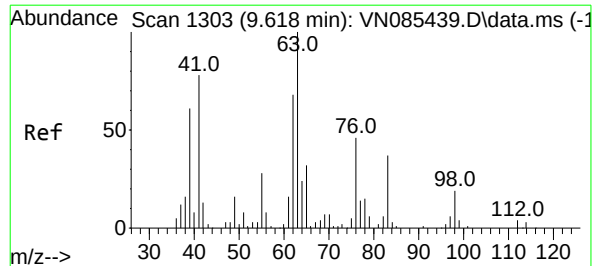
Tgt Ion:130 Resp: 238296

Ion Ratio Lower Upper

130 100

95 101.5 0.0 195.8





#45

1,2-Dichloropropane

Concen: 104.405 ug/l

RT: 9.618 min Scan# 13

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 63 Resp: 256964

Ion Ratio Lower Upper

63 100

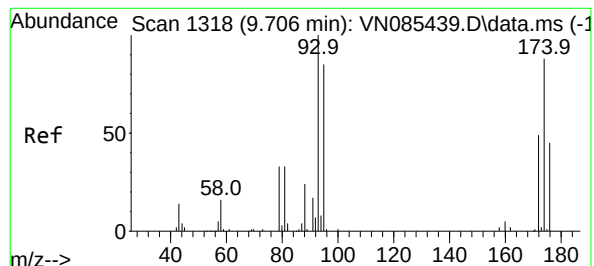
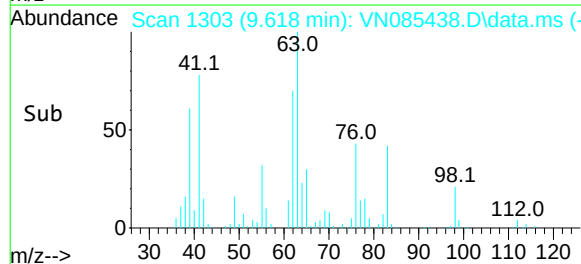
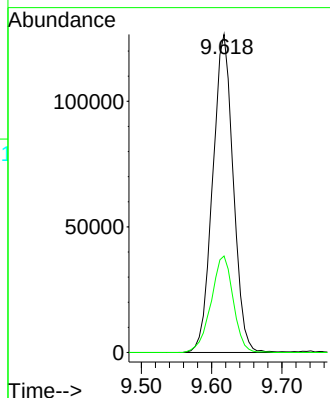
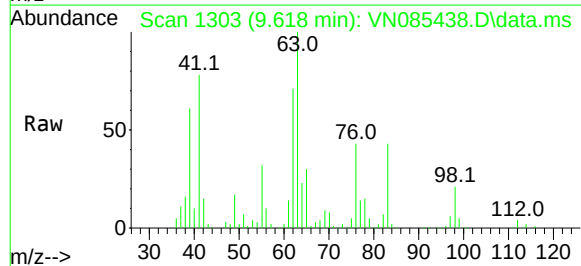
65 30.3 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#46

Dibromomethane

Concen: 101.913 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

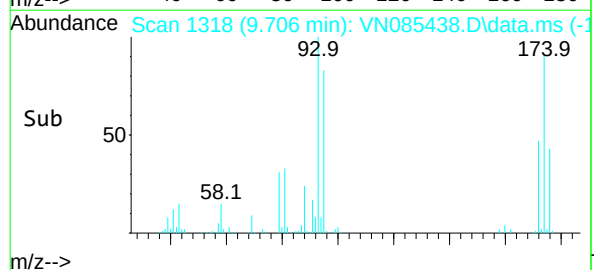
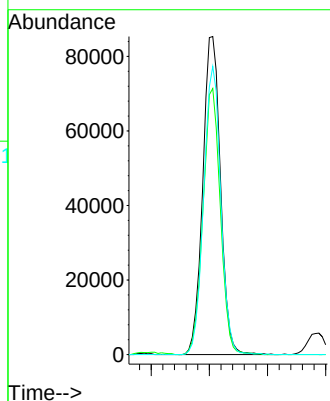
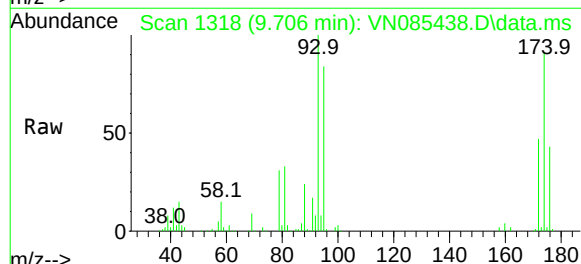
Tgt Ion: 93 Resp: 180990

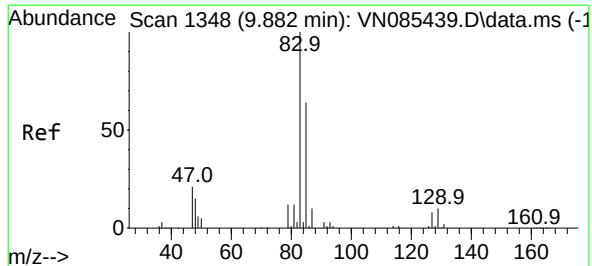
Ion Ratio Lower Upper

93 100

95 81.6 64.7 97.1

174 87.5 69.0 103.4





#47

Bromodichloromethane

Concen: 107.377 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

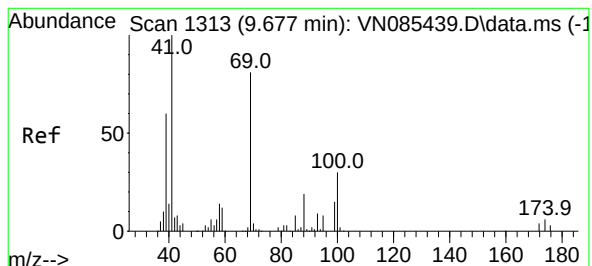
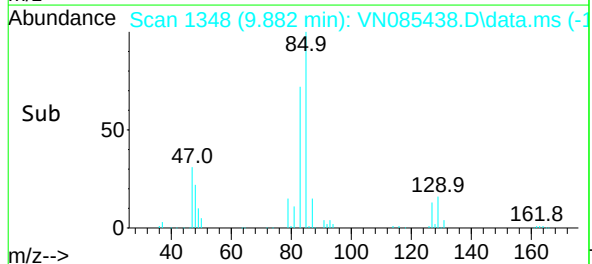
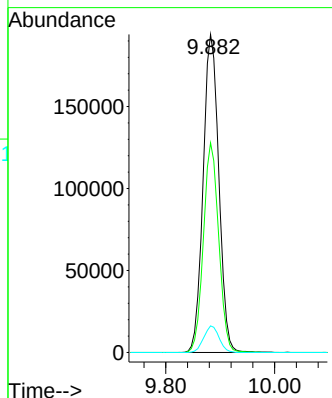
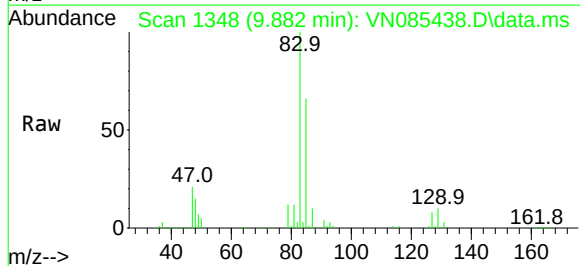
ClientSampleId :

VSTDIC100

Tgt Ion:	83	Resp:	388499
Ion	Ratio	Lower	Upper
83	100		
85	65.9	51.2	76.8
127	8.4	6.5	9.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#48

Methyl methacrylate

Concen: 114.685 ug/l

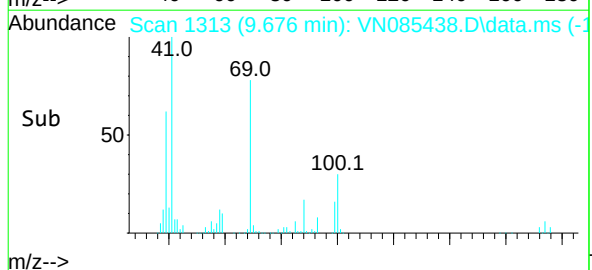
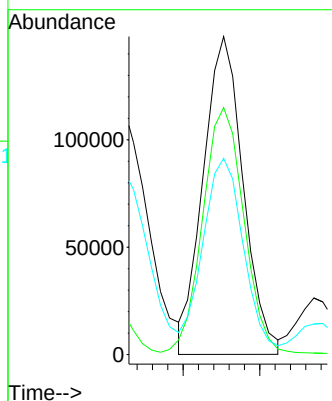
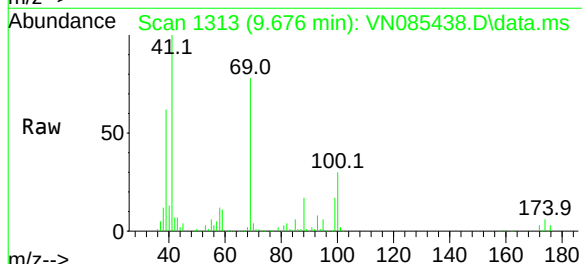
RT: 9.676 min Scan# 1313

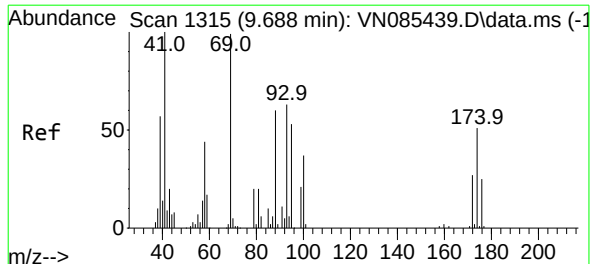
Delta R.T. -0.001 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion:	41	Resp:	267689
Ion	Ratio	Lower	Upper
41	100		
69	80.9	64.7	97.1
39	63.1	49.0	73.6





#49

1,4-Dioxane

Concen: 2133.992 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 88 Resp: 83879

Ion Ratio Lower Upper

88 100

43 31.3 26.6 39.8

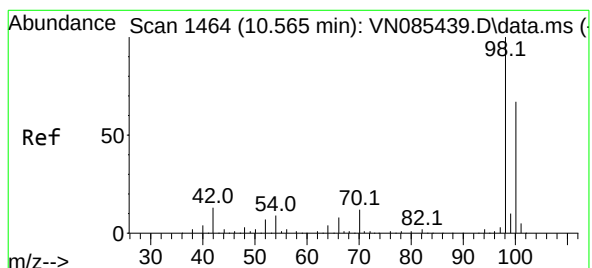
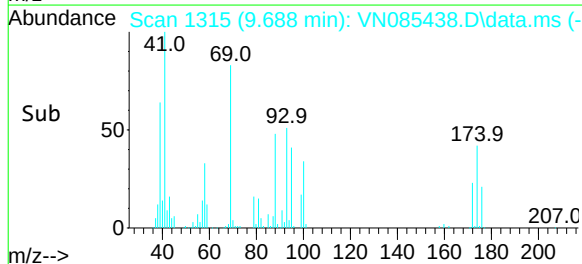
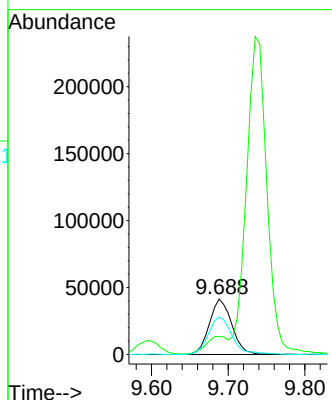
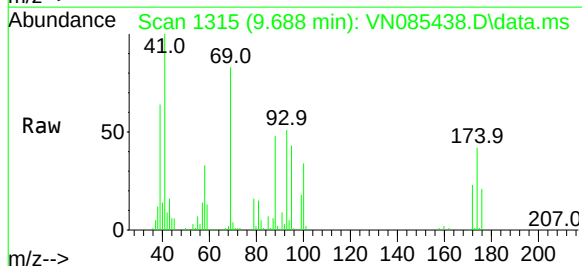
58 72.1 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#50

Toluene-d8

Concen: 108.636 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085438.D

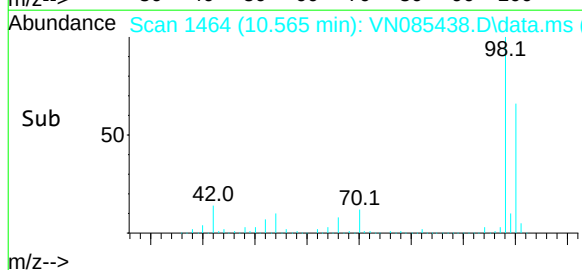
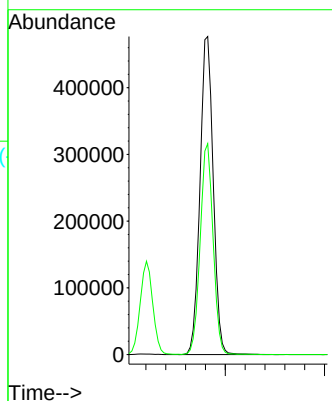
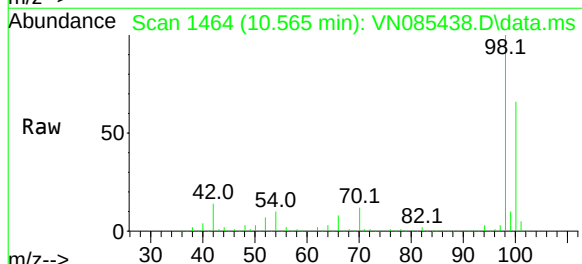
Acq: 14 Jan 2025 14:56

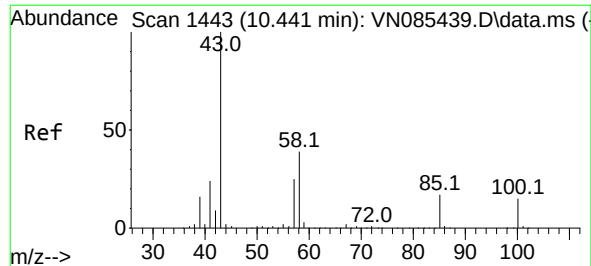
Tgt Ion: 98 Resp: 881956

Ion Ratio Lower Upper

98 100

100 64.5 52.2 78.4





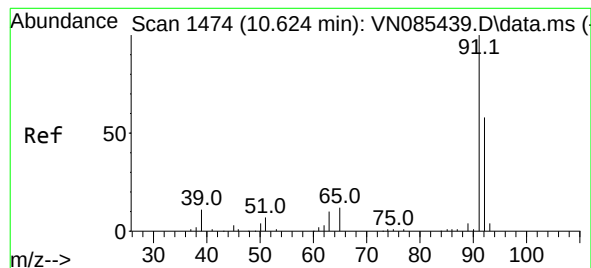
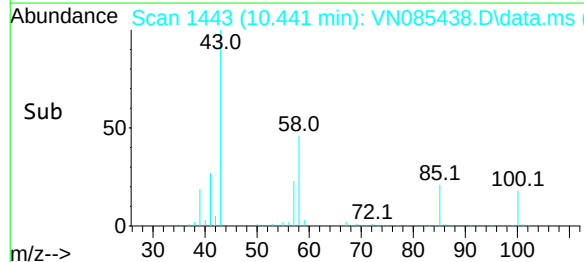
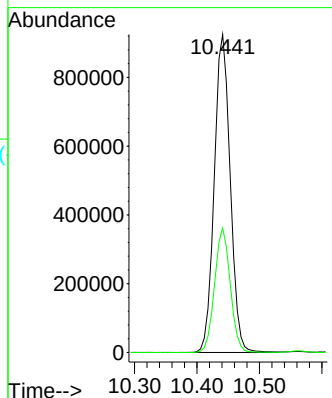
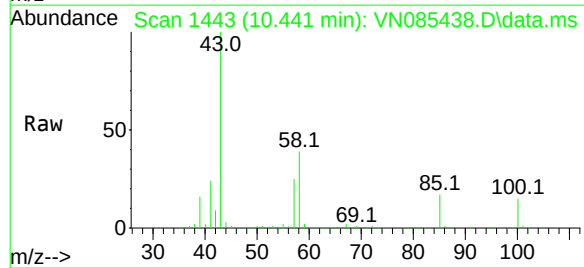
#51
4-Methyl-2-Pentanone
Concen: 546.159 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1643800
Ion Ratio Lower Upper
43 100
58 38.4 30.5 45.7

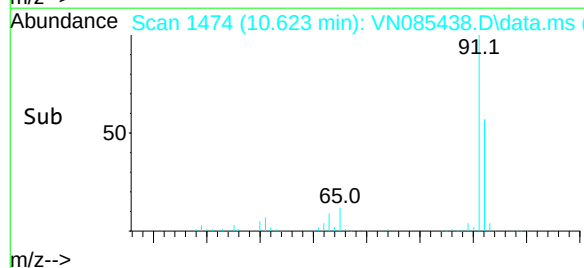
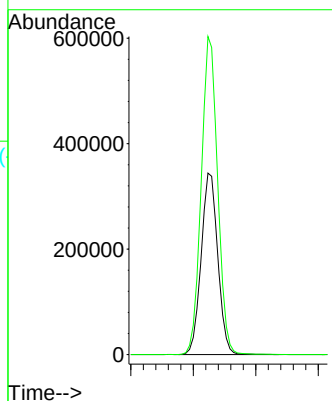
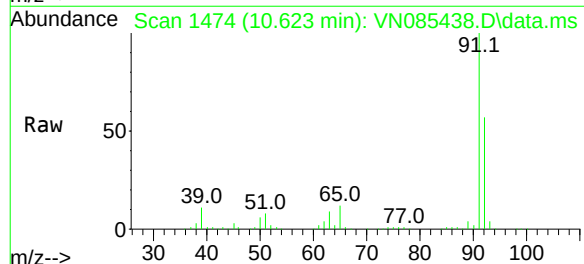
Manual Integrations
APPROVED

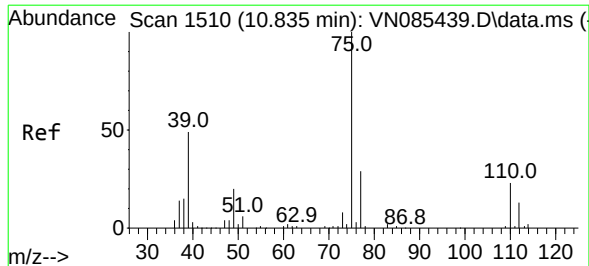
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#52
Toluene
Concen: 113.689 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.001 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 92 Resp: 634743
Ion Ratio Lower Upper
92 100
91 173.1 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 114.424 ug/l

RT: 10.829 min Scan# 1510

Delta R.T. -0.006 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 391238

Ion Ratio Lower Upper

75 100

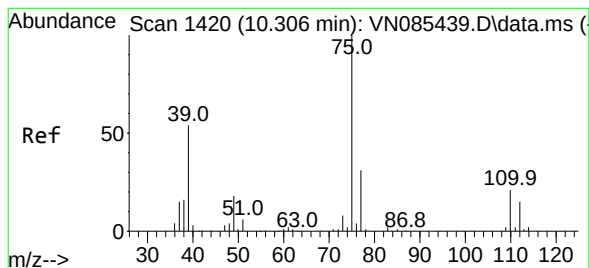
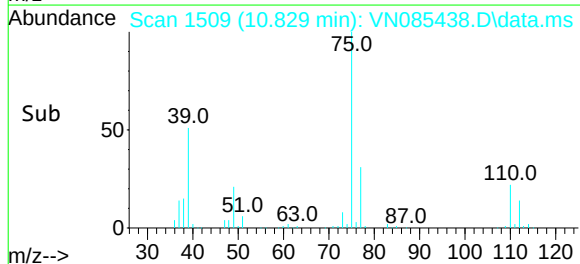
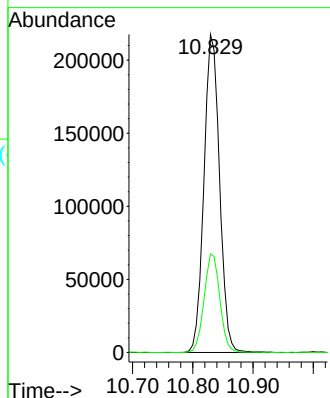
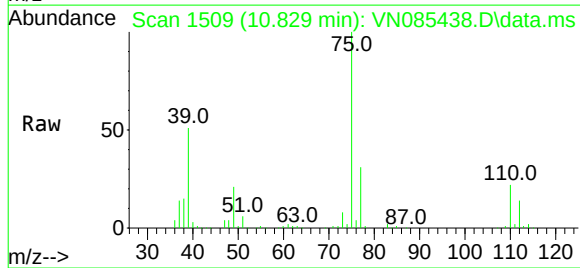
77 31.0 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#54

cis-1,3-Dichloropropene

Concen: 112.369 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

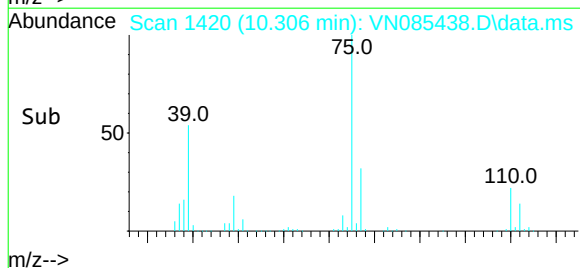
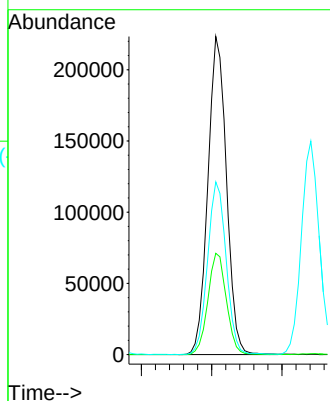
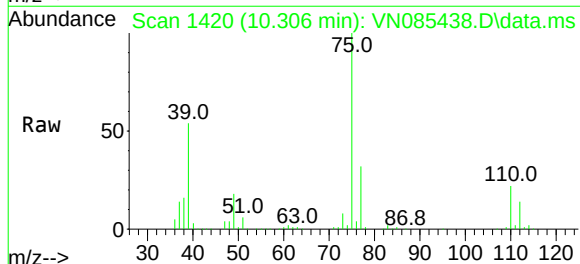
Tgt Ion: 75 Resp: 410403

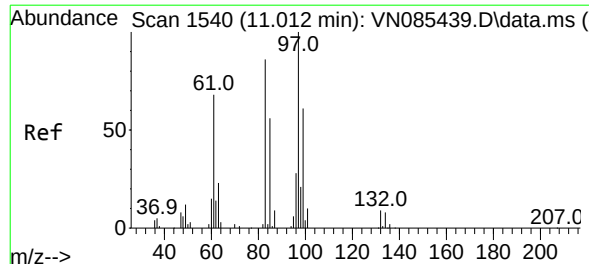
Ion Ratio Lower Upper

75 100

77 31.9 25.0 37.4

39 54.3 43.1 64.7





#55

1,1,2-Trichloroethane

Concen: 103.879 ug/l

RT: 11.012 min Scan# 15

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 97 Resp: 229522

Ion Ratio Lower Upper

97 100

83 88.4 69.0 103.6

85 56.3 44.6 66.8

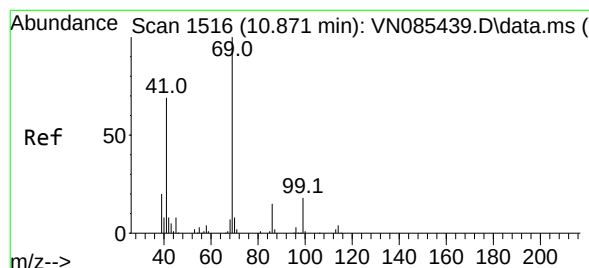
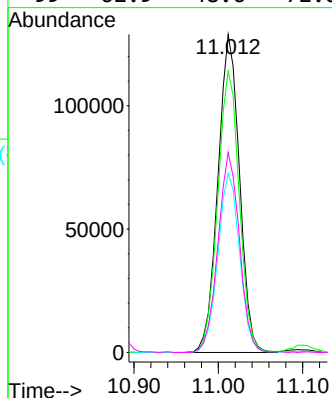
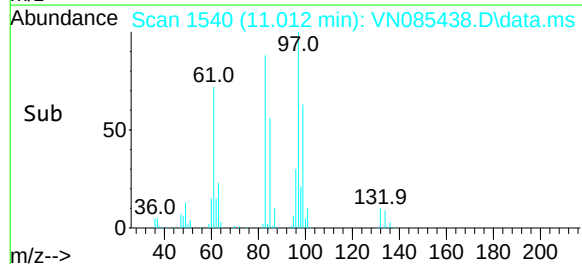
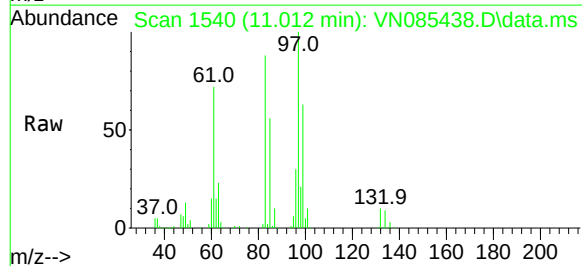
99 62.9 48.6 72.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#56

Ethyl methacrylate

Concen: 101.029 ug/l

RT: 10.870 min Scan# 1516

Delta R.T. -0.001 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

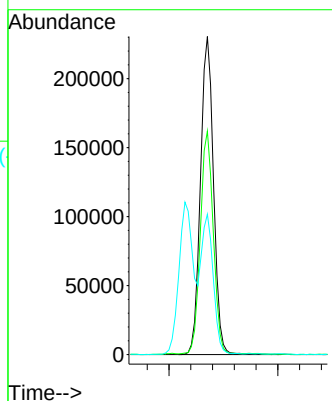
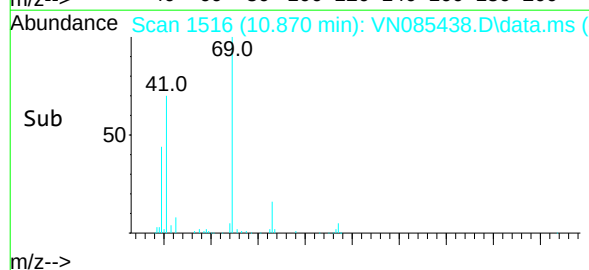
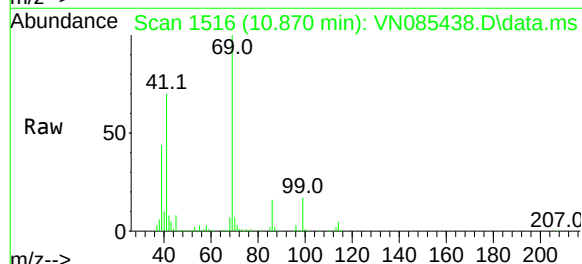
Tgt Ion: 69 Resp: 383663

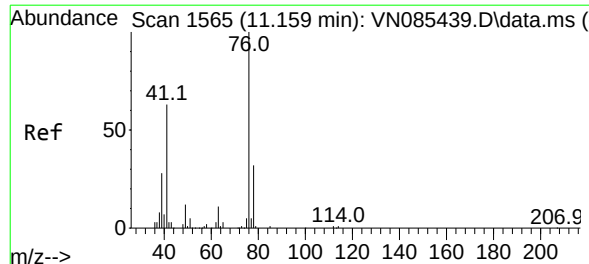
Ion Ratio Lower Upper

69 100

41 69.1 54.6 82.0

39 40.1 32.4 48.6





#57

1,3-Dichloropropane

Concen: 107.469 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 76 Resp: 412886

Ion Ratio Lower Upper

76 100

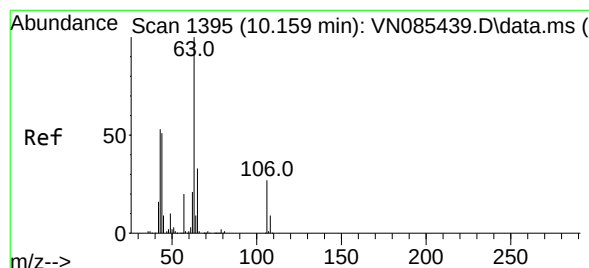
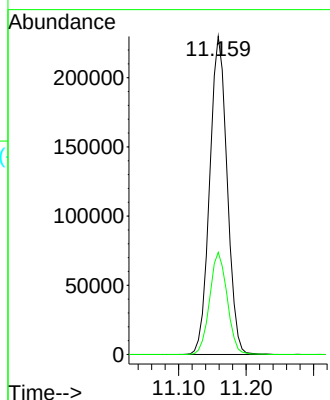
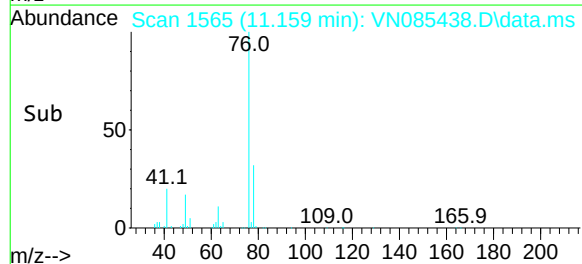
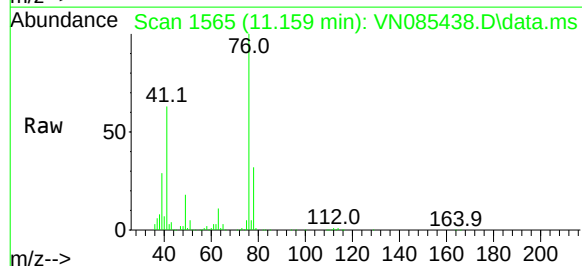
78 32.2 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#58

2-Chloroethyl Vinyl ether

Concen: 605.243 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. -0.006 min

Lab File: VN085438.D

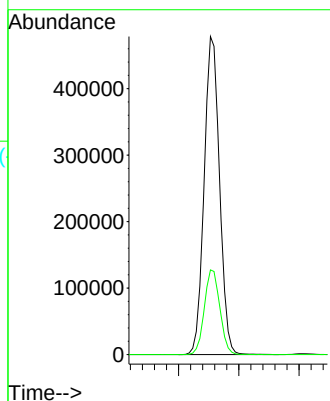
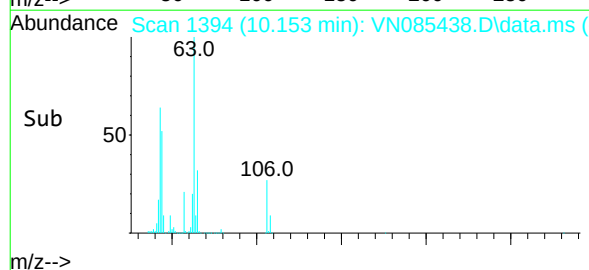
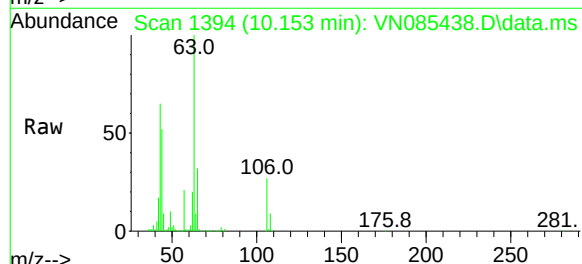
Acq: 14 Jan 2025 14:56

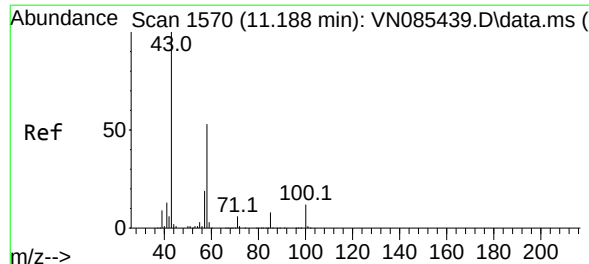
Tgt Ion: 63 Resp: 848636

Ion Ratio Lower Upper

63 100

106 26.8 21.6 32.4





#59

2-Hexanone

Concen: 556.643 ug/l

RT: 11.194 min Scan# 1570

Delta R.T. 0.006 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 1178831

Ion Ratio Lower Upper

43 100

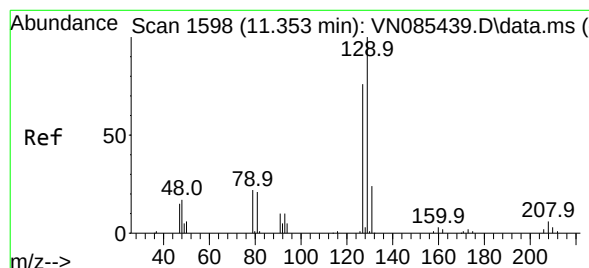
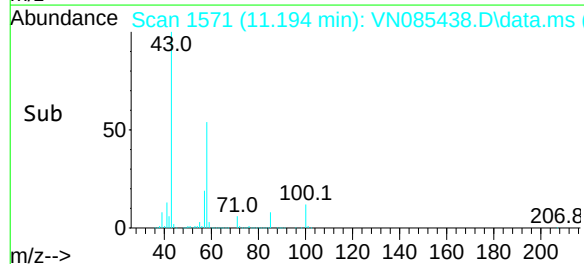
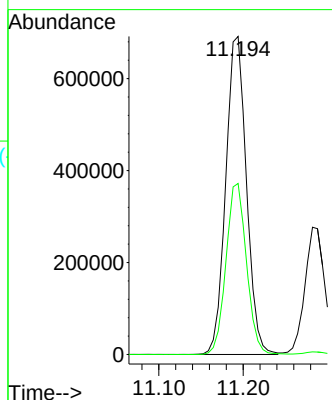
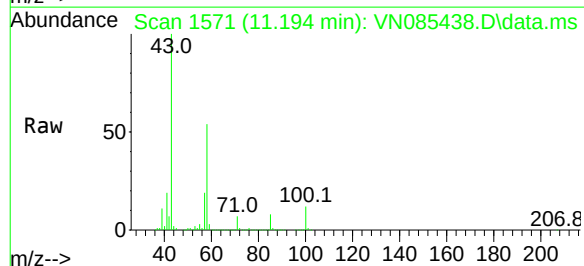
58 53.2 26.2 78.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#60

Dibromochloromethane

Concen: 106.227 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. -0.000 min

Lab File: VN085438.D

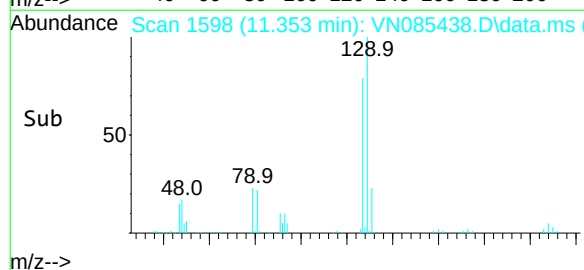
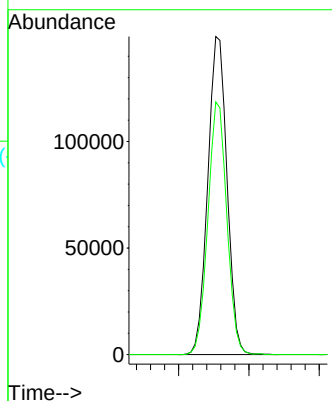
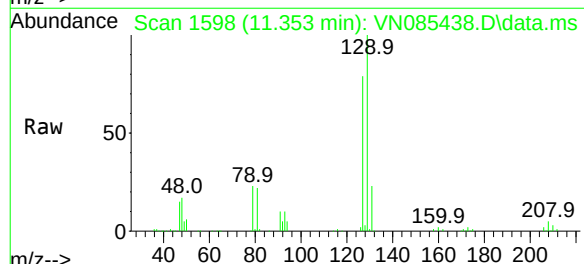
Acq: 14 Jan 2025 14:56

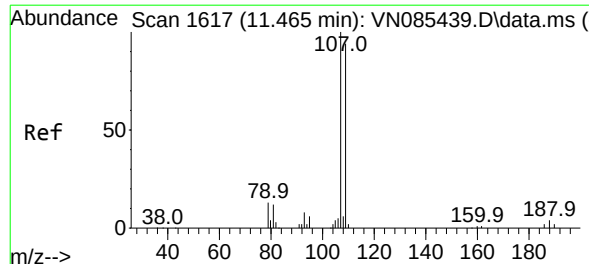
Tgt Ion:129 Resp: 283361

Ion Ratio Lower Upper

129 100

127 78.1 38.6 115.8





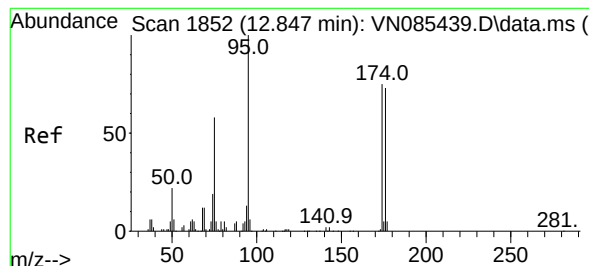
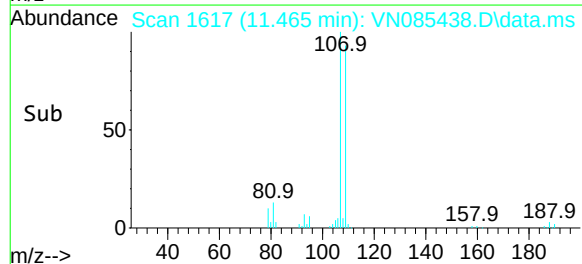
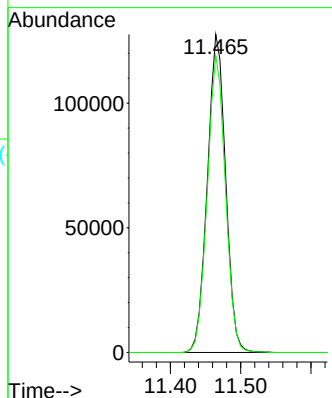
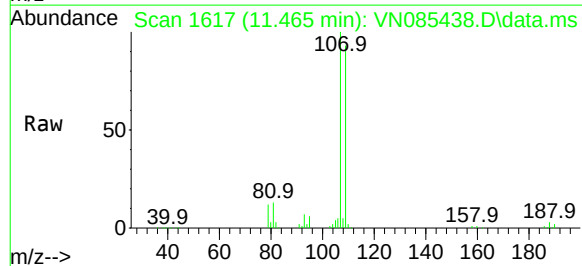
#61
1,2-Dibromoethane
Concen: 104.623 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 107 Resp: 230104
Ion Ratio Lower Upper
107 100
109 93.1 75.9 113.9

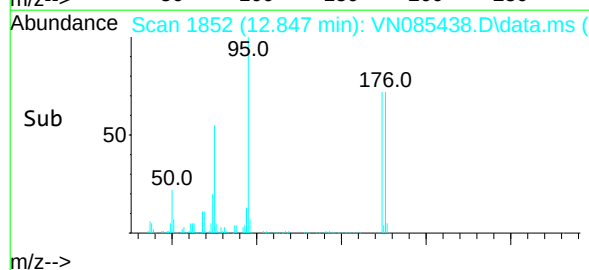
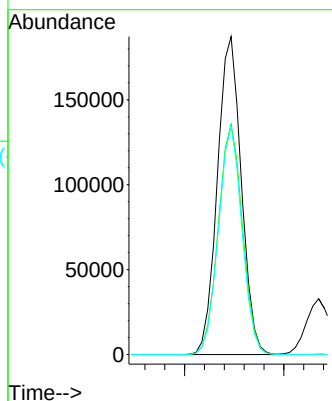
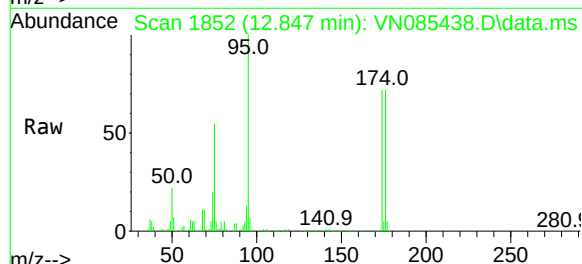
Manual Integrations
APPROVED

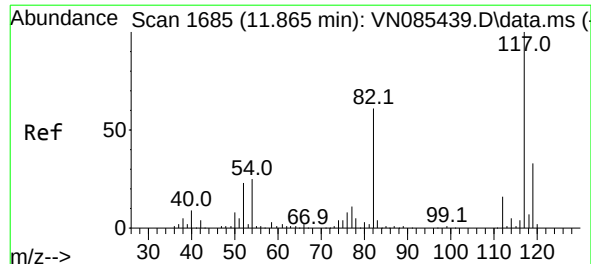
Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



#62
4-Bromofluorobenzene
Concen: 112.765 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 95 Resp: 313161
Ion Ratio Lower Upper
95 100
174 73.4 0.0 145.0
176 70.5 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:117 Resp: 298938

Ion Ratio Lower Upper

117 100

82 59.3 48.6 72.8

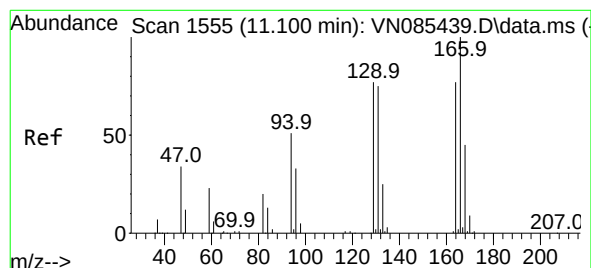
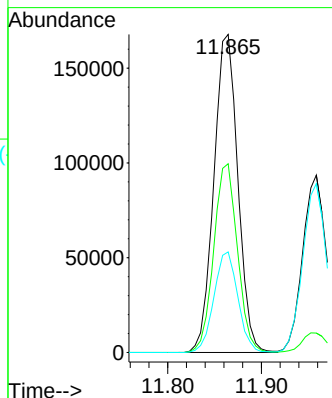
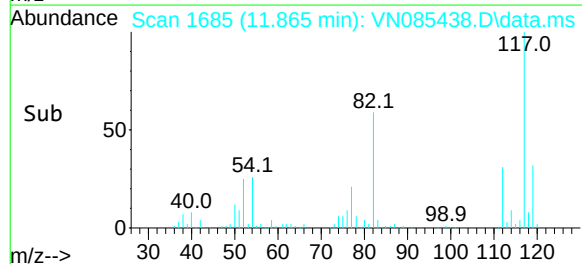
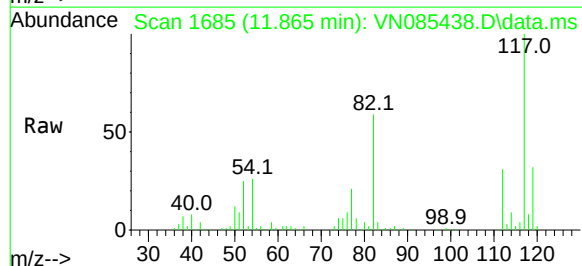
119 31.6 26.6 39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#64

Tetrachloroethene

Concen: 102.980 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion:164 Resp: 209870

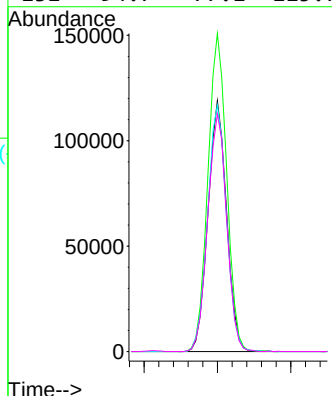
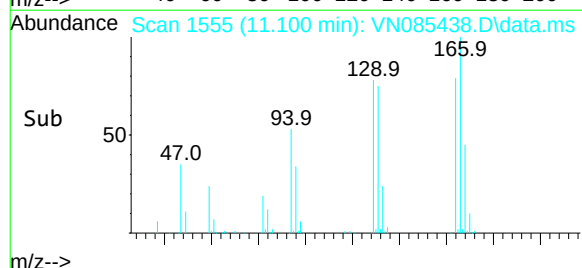
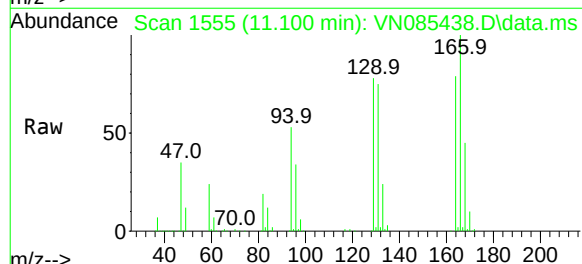
Ion Ratio Lower Upper

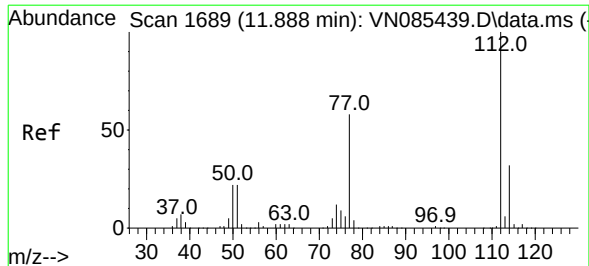
164 100

166 126.8 103.4 155.2

129 98.3 79.2 118.8

131 94.7 77.1 115.7





#65

Chlorobenzene

Concen: 103.482 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:112 Resp: 677679

Ion Ratio Lower Upper

112 100

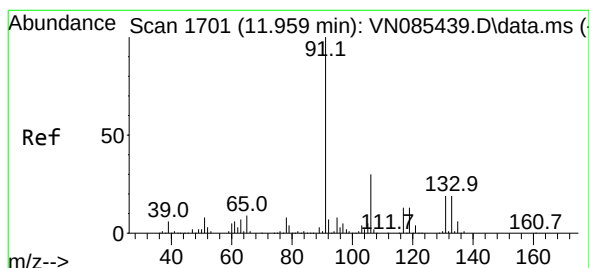
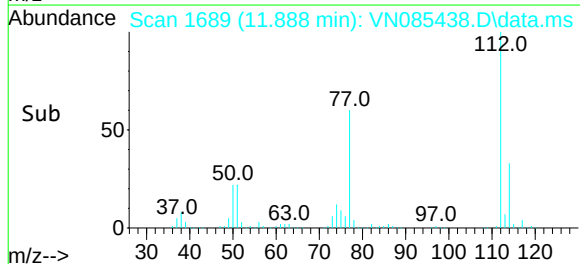
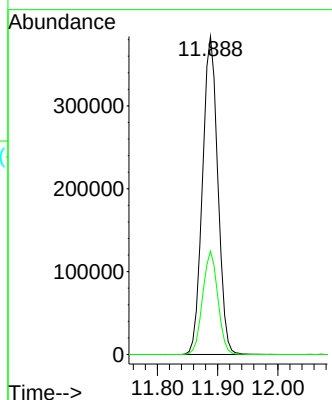
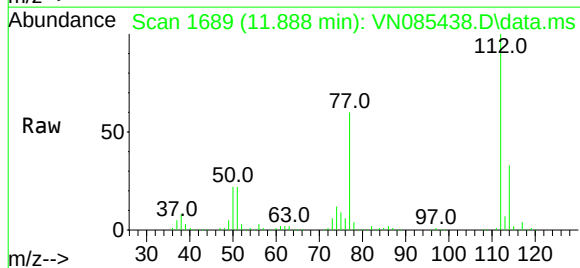
114 32.5 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 100.517 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

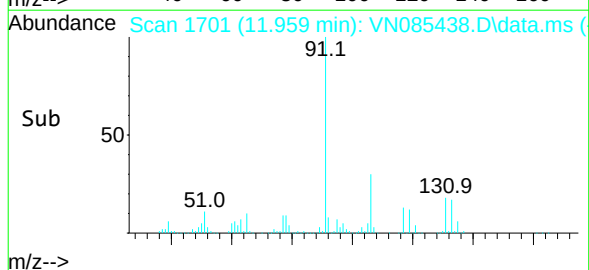
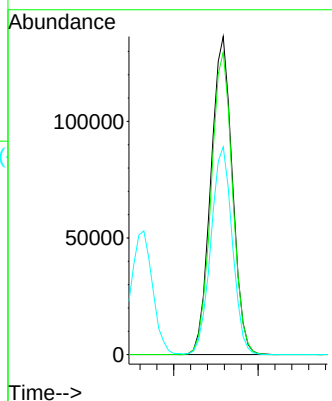
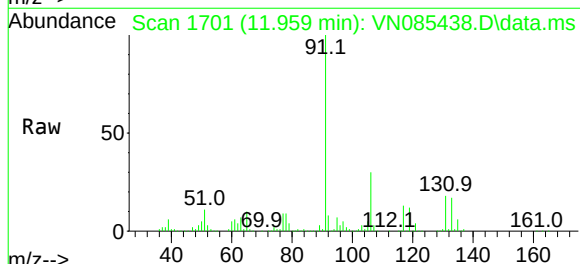
Tgt Ion:131 Resp: 241593

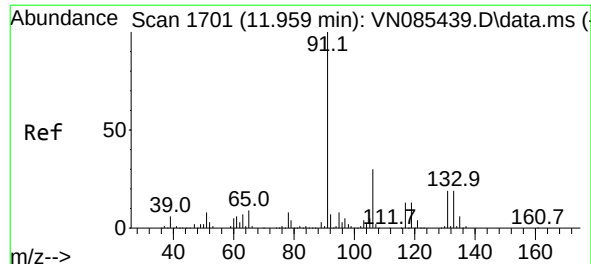
Ion Ratio Lower Upper

131 100

133 94.3 47.4 142.3

119 64.9 33.1 99.5





#67

Ethyl Benzene

Concen: 116.169 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 1239080

Ion Ratio Lower Upper

91 100

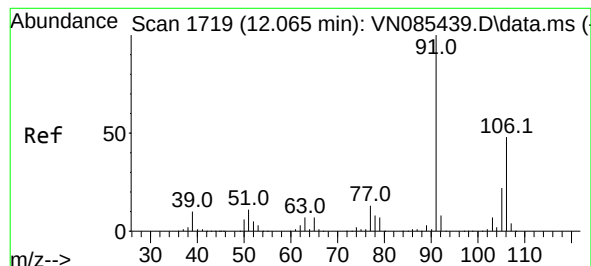
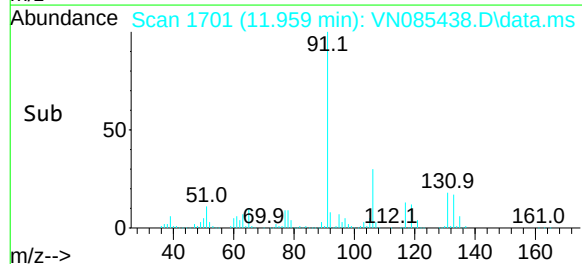
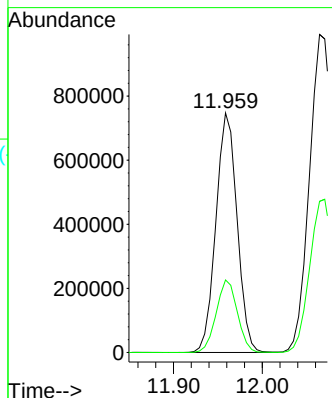
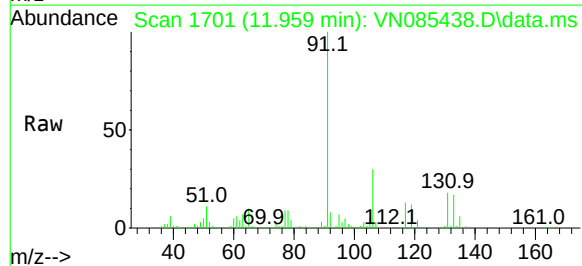
106 30.3 23.8 35.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#68

m/p-Xylenes

Concen: 235.219 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN085438.D

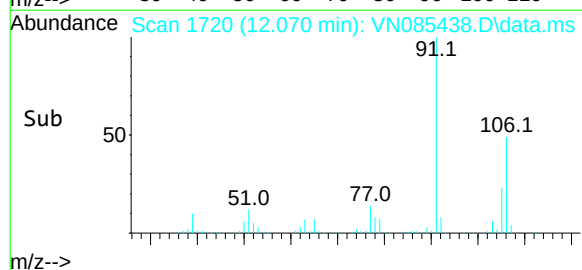
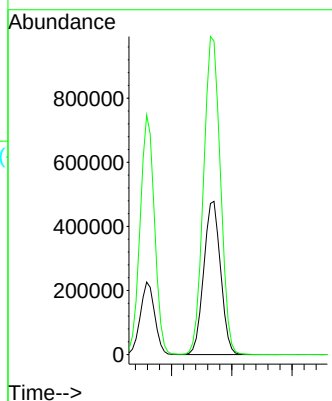
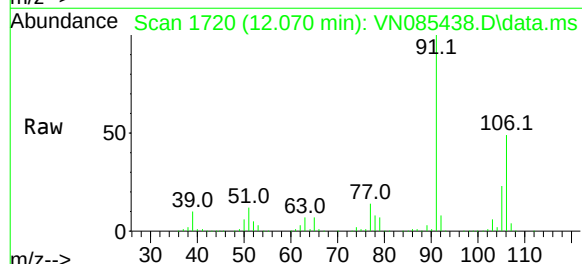
Acq: 14 Jan 2025 14:56

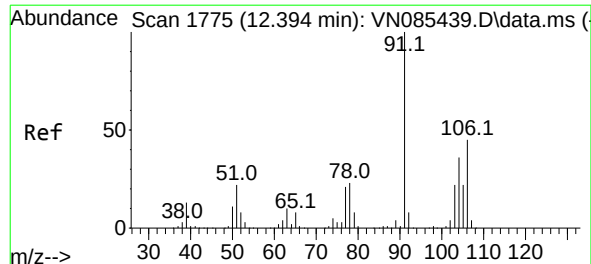
Tgt Ion:106 Resp: 927244

Ion Ratio Lower Upper

106 100

91 208.0 167.7 251.5





#69

o-Xylene

Concen: 117.135 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:106 Resp: 441279

Ion Ratio Lower Upper

106 100

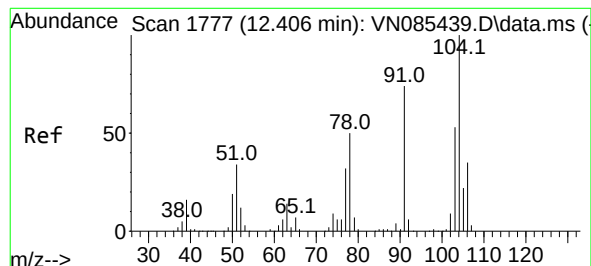
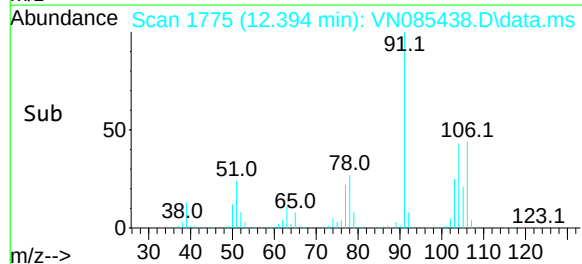
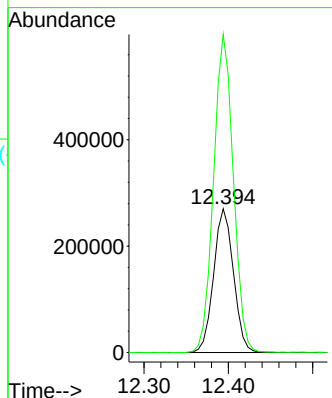
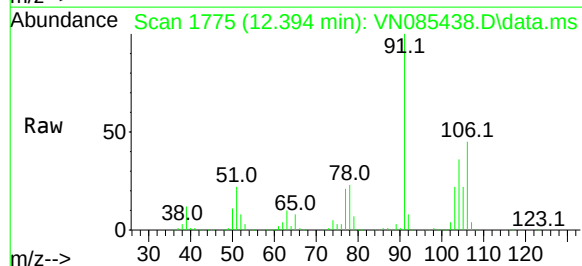
91 221.3 110.4 331.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#70

Styrene

Concen: 121.919 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

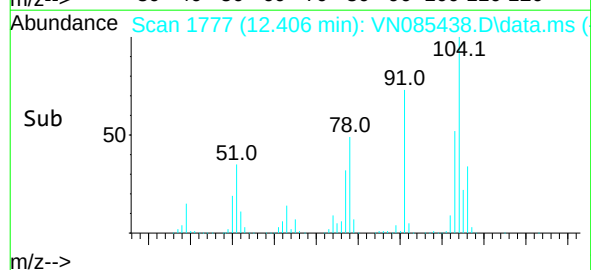
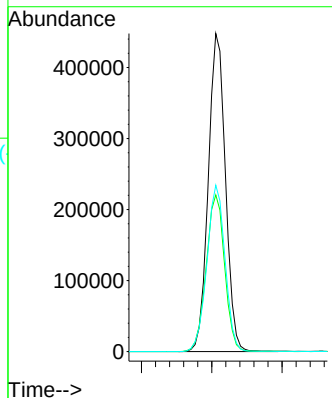
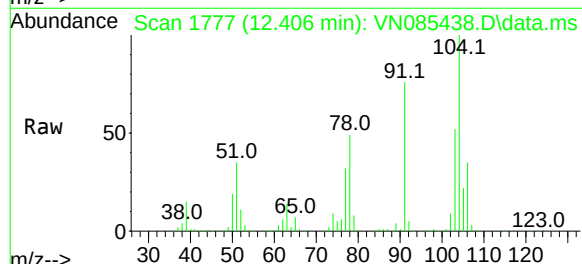
Tgt Ion:104 Resp: 760136

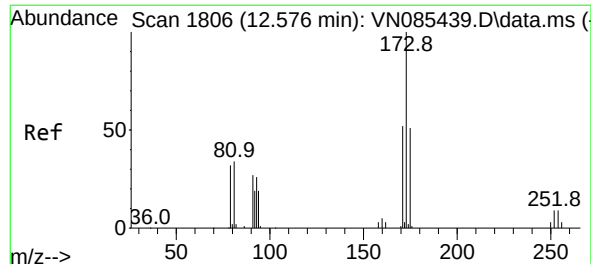
Ion Ratio Lower Upper

104 100

78 52.8 42.5 63.7

103 55.3 43.8 65.8





#71

Bromoform

Concen: 108.227 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

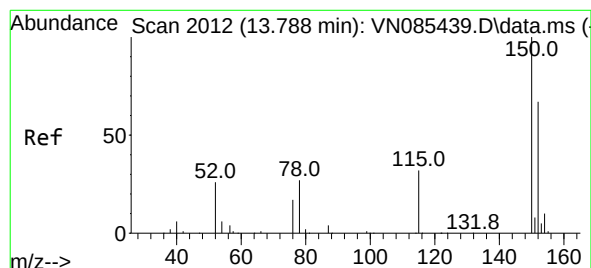
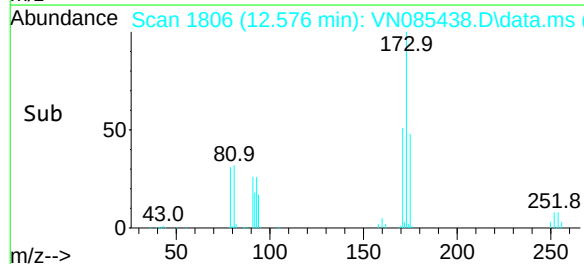
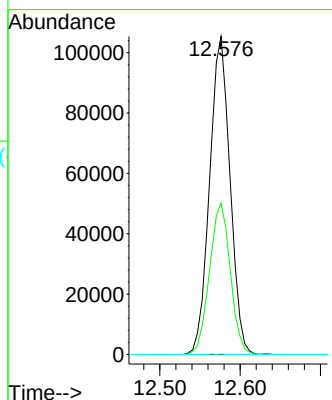
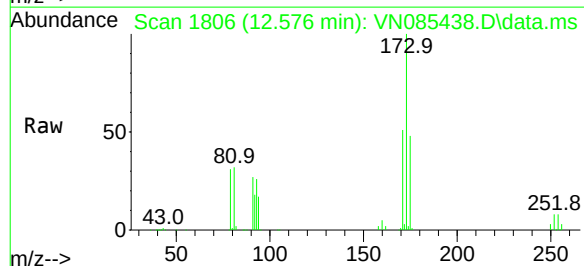
VSTDICC100

Tgt Ion:	173	Resp:	186124
Ion Ratio	Lower	Upper	
173	100		
175	48.4	24.4	73.2
254	0.1	0.0	0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

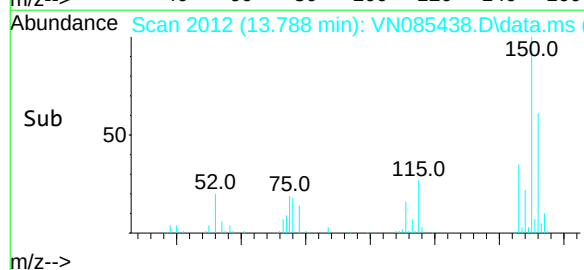
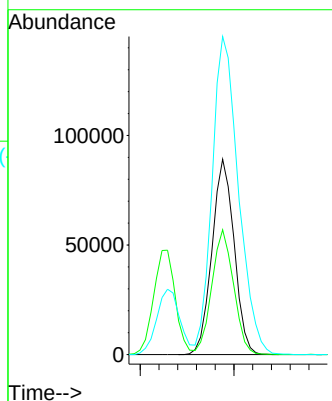
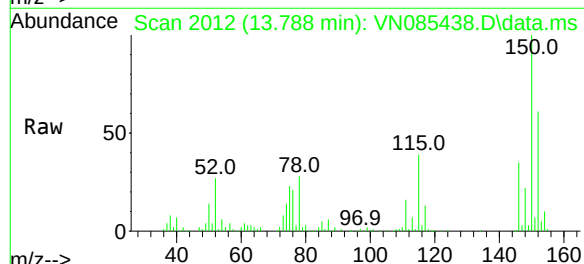
RT: 13.788 min Scan# 2012

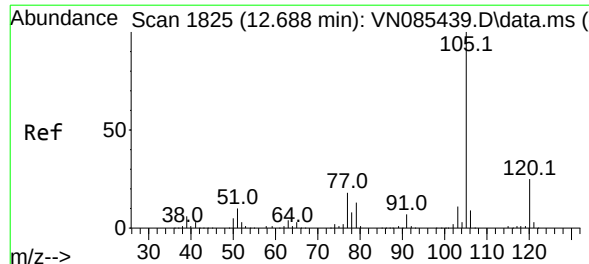
Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion:	152	Resp:	146196
Ion Ratio	Lower	Upper	
152	100		
115	62.7	31.1	93.3
150	193.1	0.0	343.6





#73

Isopropylbenzene

Concen: 116.221 ug/l

RT: 12.694 min Scan# 1825

Delta R.T. 0.006 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion: 105 Resp: 1146752

Ion Ratio Lower Upper

105 100

120 25.7 12.8 38.3

Instrument :

MSVOA_N

ClientSampleId :

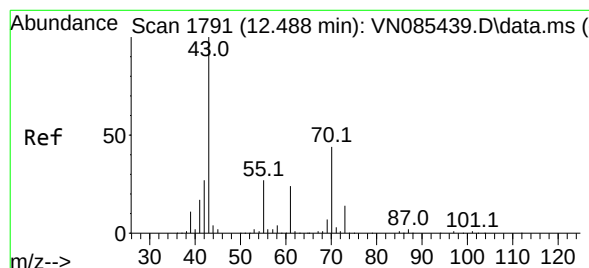
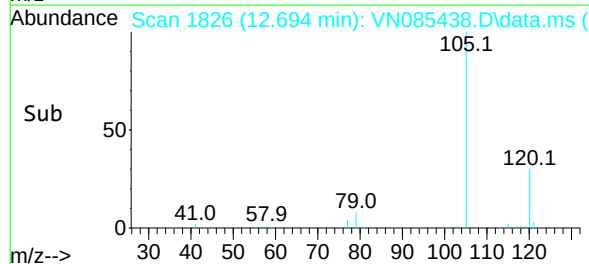
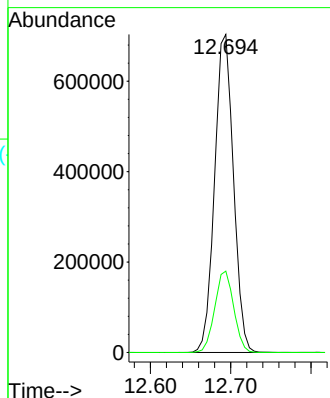
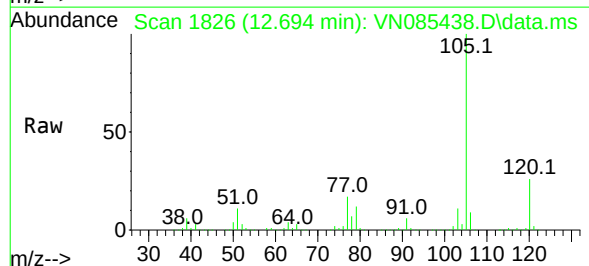
VSTDICC100

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#74

N-ethyl acetate

Concen: 110.308 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion: 43 Resp: 489217

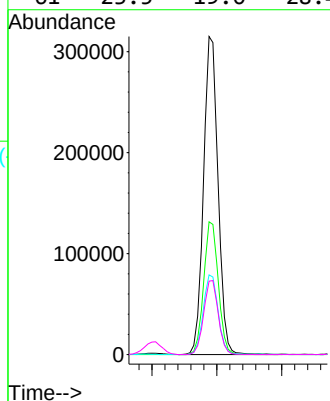
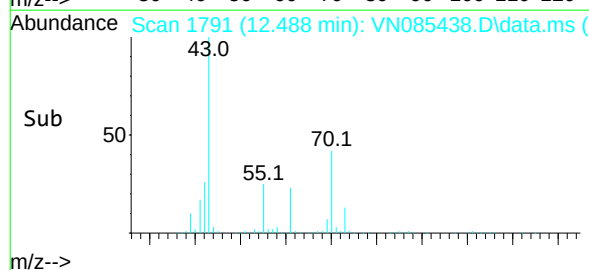
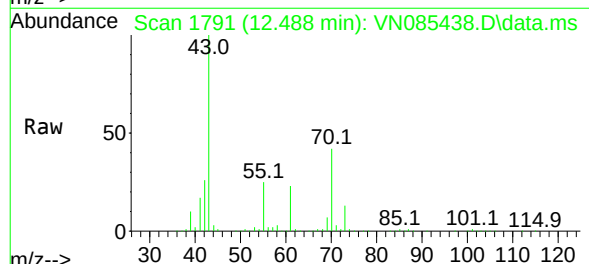
Ion Ratio Lower Upper

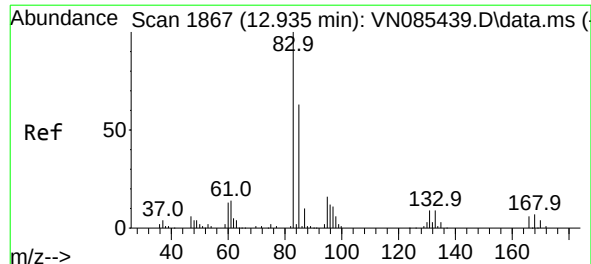
43 100

70 41.9 34.0 51.0

55 25.7 21.4 32.2

61 23.5 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 94.039 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

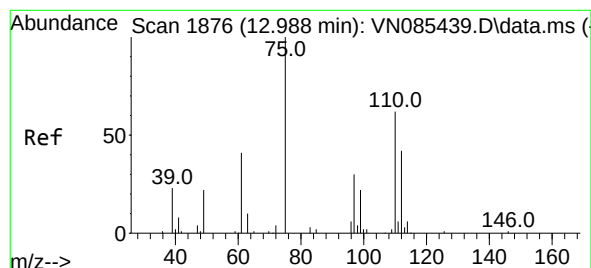
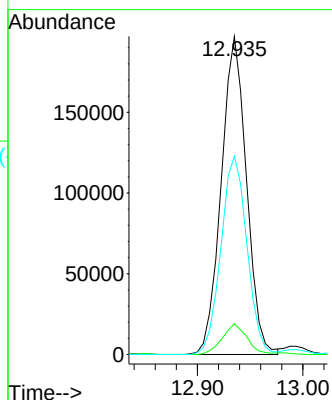
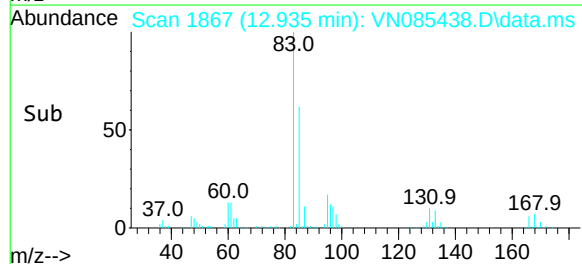
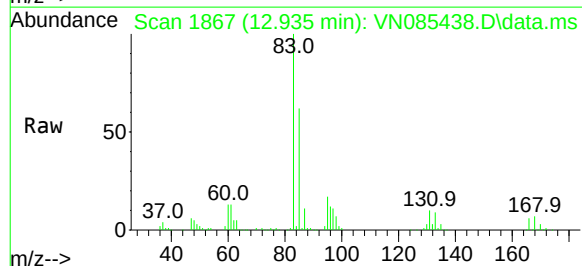
VSTDICC100

Tgt Ion:	83	Resp:	327767
Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.8	14.4
85	64.1	32.2	96.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#76

1,2,3-Trichloropropane

Concen: 104.530 ug/l m

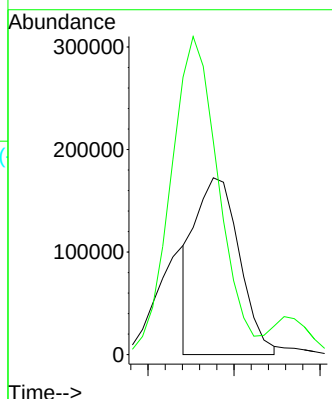
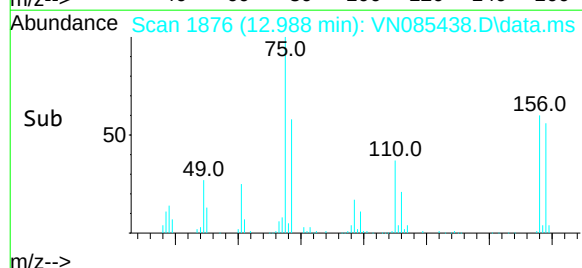
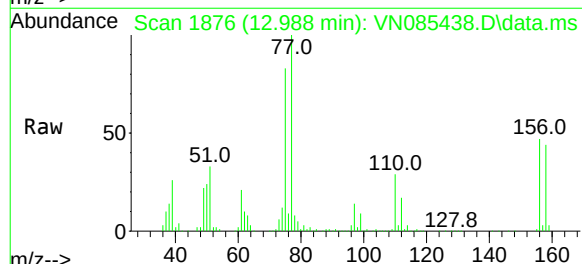
RT: 12.988 min Scan# 1876

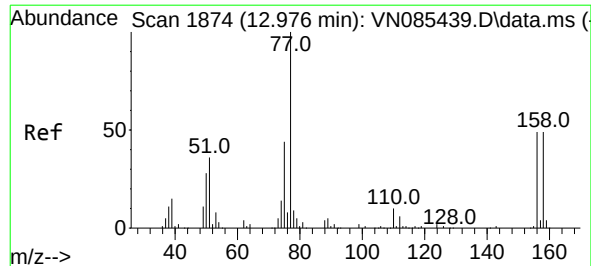
Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion:	75	Resp:	310115
Ion	Ratio	Lower	Upper
75	100		
77	192.6	109.7	329.2





#77

Bromobenzene

Concen: 104.200 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:156 Resp: 268616

Ion Ratio Lower Upper

156 100

77 222.4 114.1 342.4

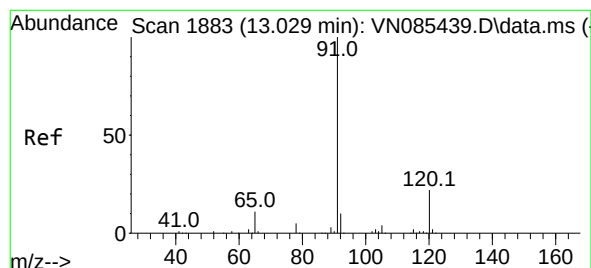
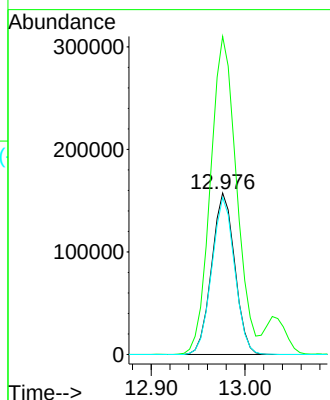
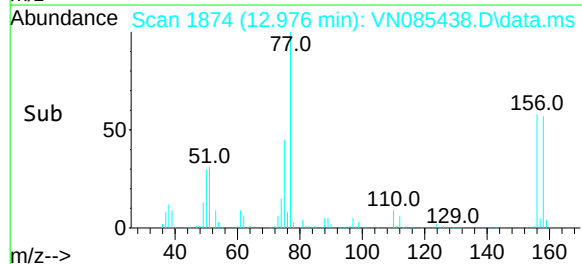
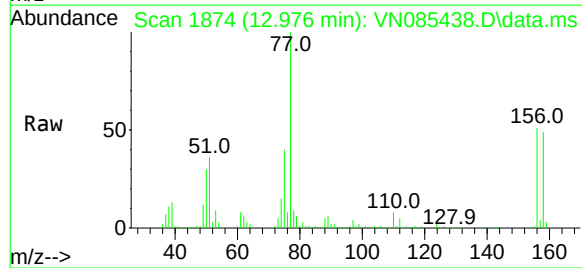
158 96.3 48.9 146.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#78

n-propylbenzene

Concen: 118.600 ug/l

RT: 13.029 min Scan# 1883

Delta R.T. -0.000 min

Lab File: VN085438.D

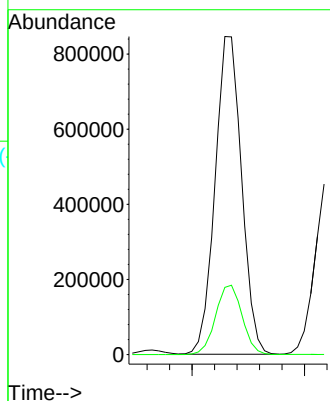
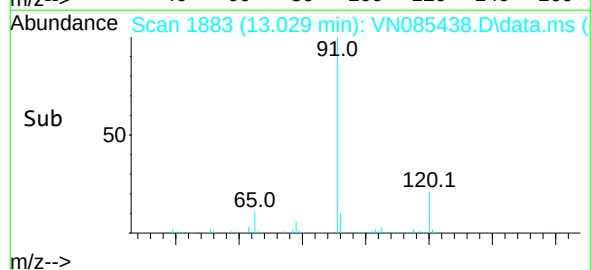
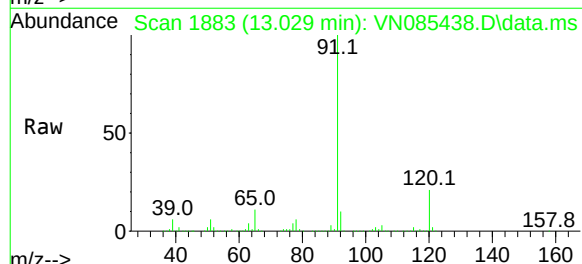
Acq: 14 Jan 2025 14:56

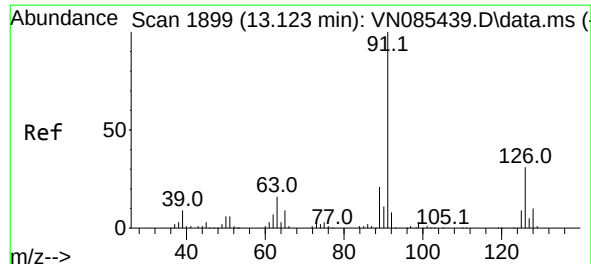
Tgt Ion: 91 Resp: 1385353

Ion Ratio Lower Upper

91 100

120 21.8 10.9 32.6





#79

2-Chlorotoluene

Concen: 108.767 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 822258

Ion Ratio Lower Upper

91 100

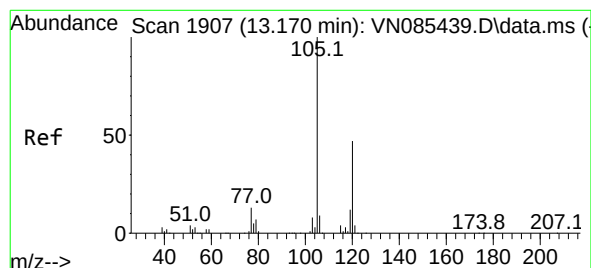
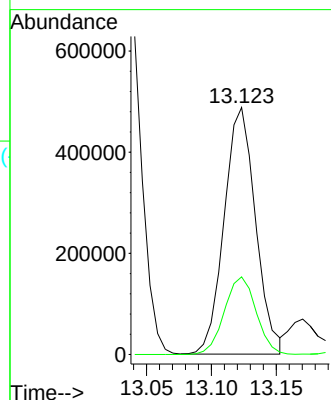
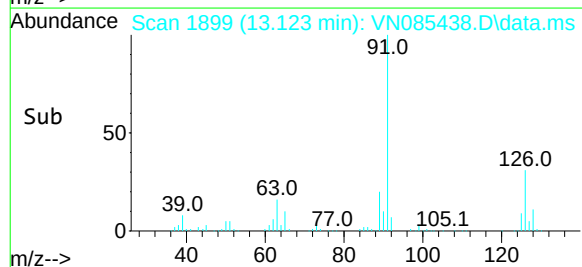
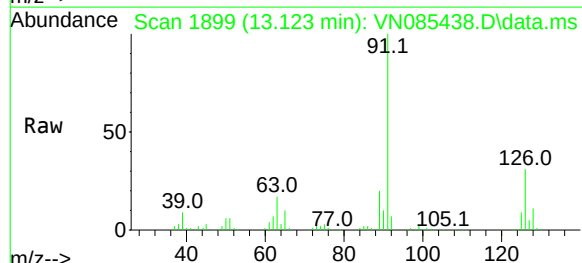
126 31.8 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#80

1,3,5-Trimethylbenzene

Concen: 116.938 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085438.D

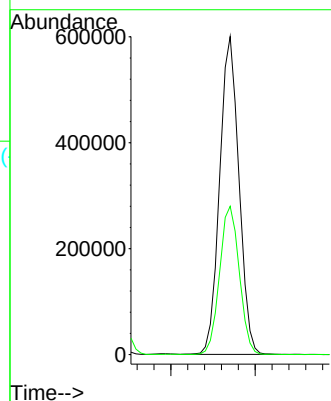
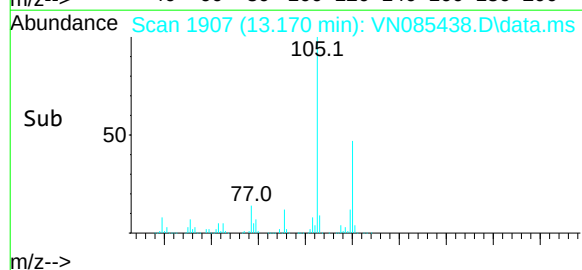
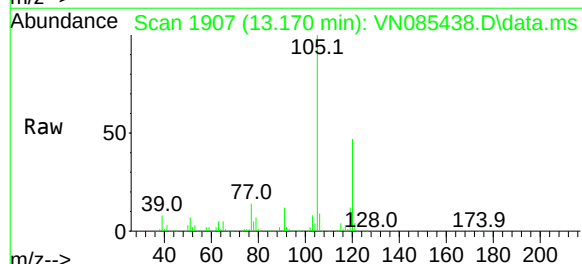
Acq: 14 Jan 2025 14:56

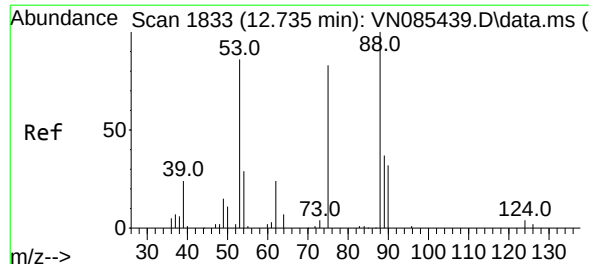
Tgt Ion:105 Resp: 953066

Ion Ratio Lower Upper

105 100

120 47.8 23.9 71.7





#81

trans-1,4-Dichloro-2-butene

Concen: 111.544 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 75 Resp: 122508

Ion Ratio Lower Upper

75 100

53 100.9 95.6 143.4

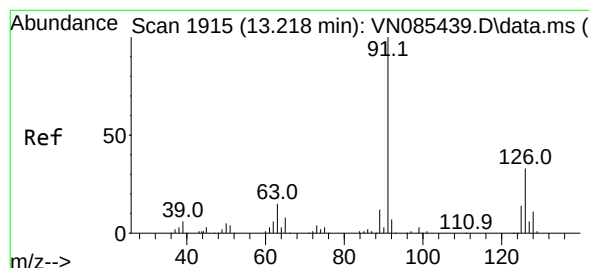
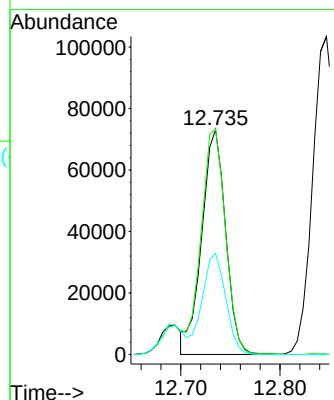
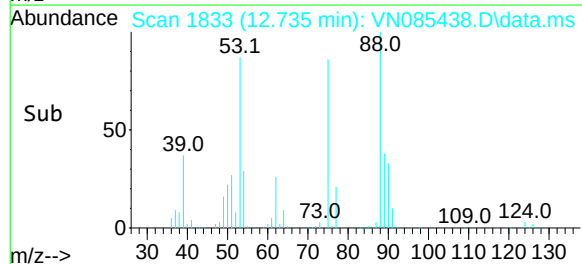
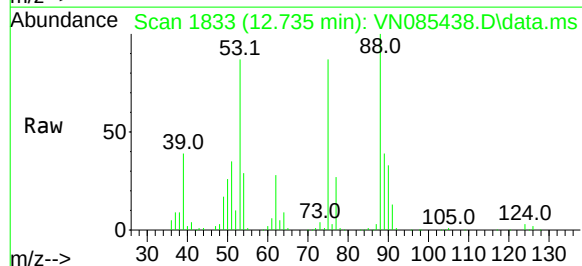
89 44.4 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#82

4-Chlorotoluene

Concen: 110.574 ug/l

RT: 13.217 min Scan# 1915

Delta R.T. -0.000 min

Lab File: VN085438.D

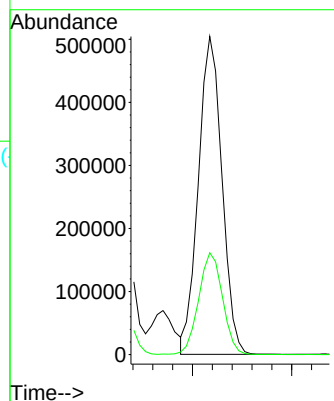
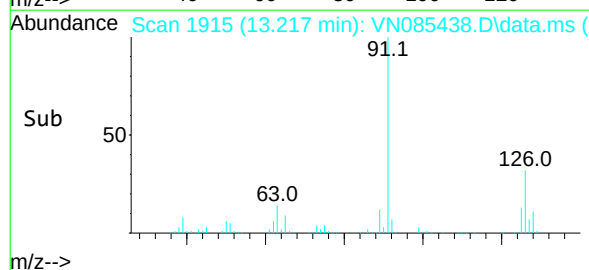
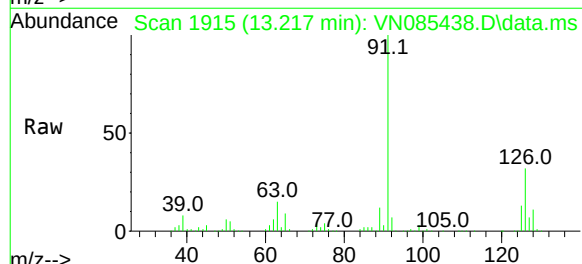
Acq: 14 Jan 2025 14:56

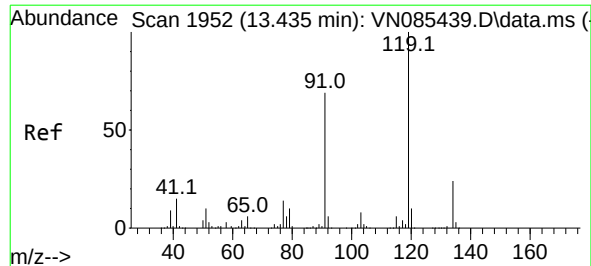
Tgt Ion: 91 Resp: 832317

Ion Ratio Lower Upper

91 100

126 32.5 15.9 47.7





#83

tert-Butylbenzene

Concen: 116.457 ug/l

RT: 13.435 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:119 Resp: 797069

Ion Ratio Lower Upper

119 100

91 70.7 35.1 105.3

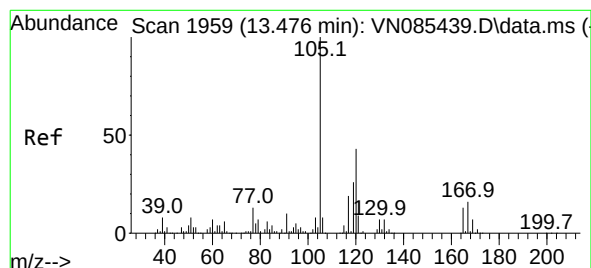
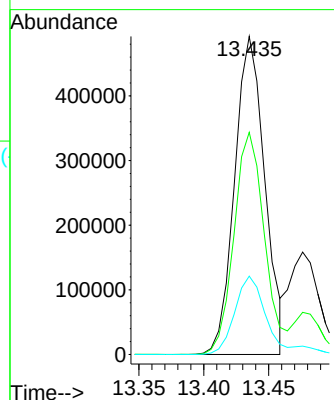
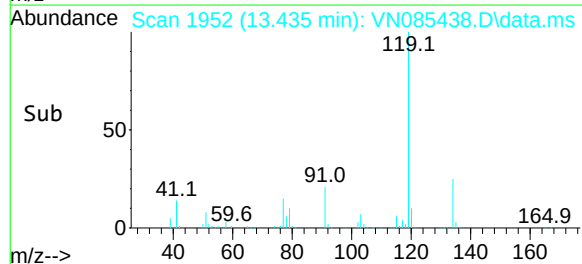
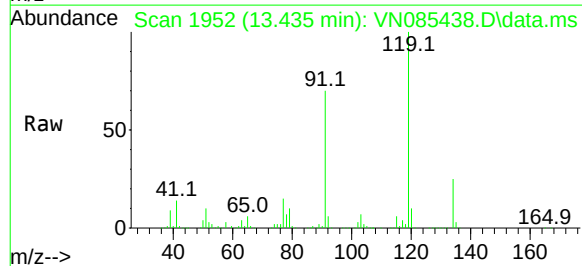
134 26.6 12.0 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#84

1,2,4-Trimethylbenzene

Concen: 119.625 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN085438.D

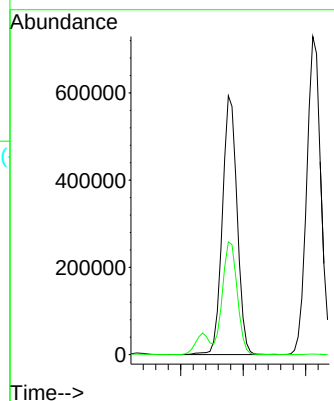
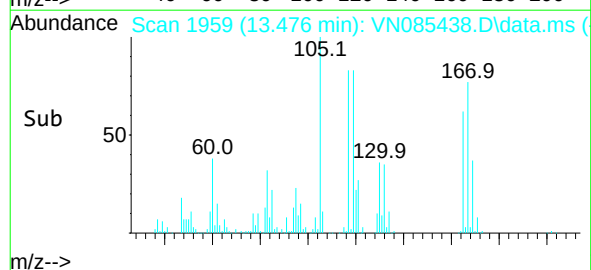
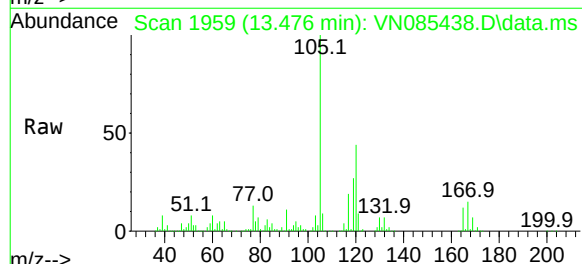
Acq: 14 Jan 2025 14:56

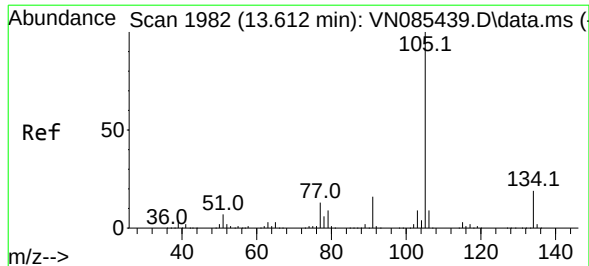
Tgt Ion:105 Resp: 971729

Ion Ratio Lower Upper

105 100

120 43.4 21.6 65.0





#85

sec-Butylbenzene

Concen: 120.587 ug/l

RT: 13.611 min Scan# 19

Delta R.T. -0.001 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:105 Resp: 1143885

Ion Ratio Lower Upper

105 100

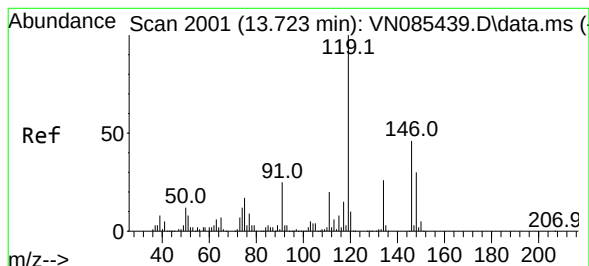
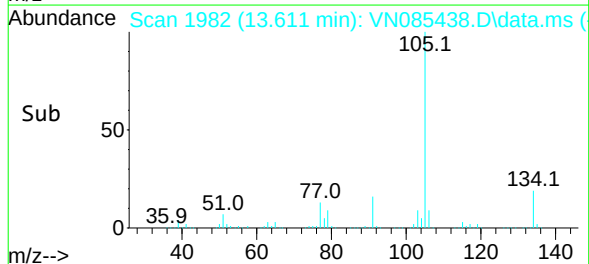
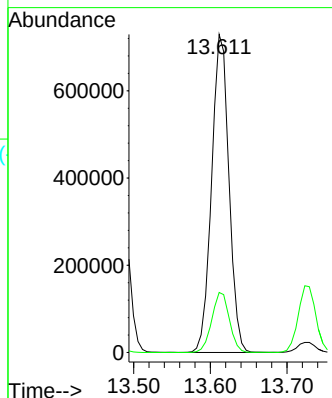
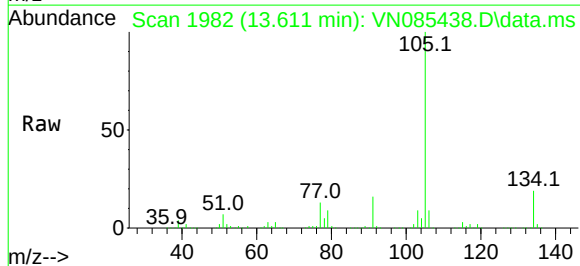
134 19.2 9.7 28.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#86

p-Isopropyltoluene

Concen: 100.111 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

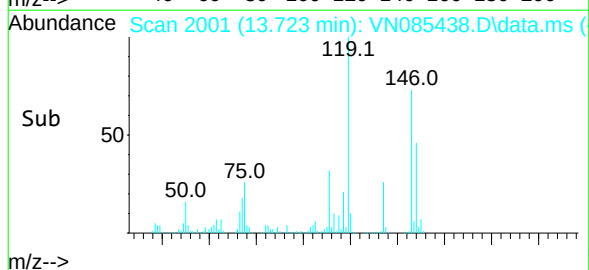
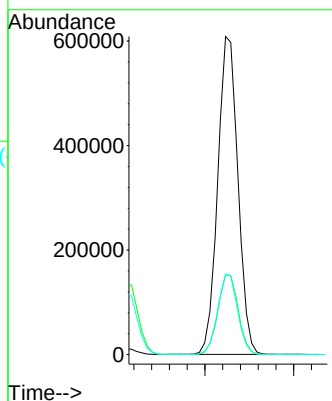
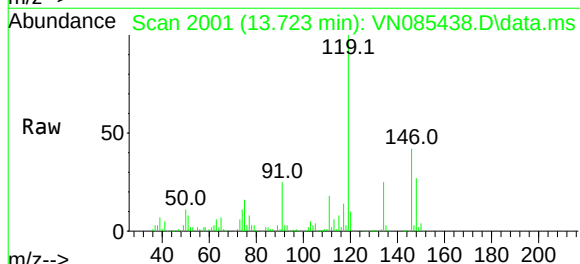
Tgt Ion:119 Resp: 960747

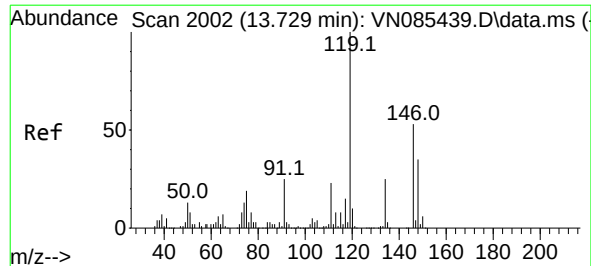
Ion Ratio Lower Upper

119 100

134 25.3 12.7 38.0

91 25.0 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 105.943 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 502960

Ion Ratio Lower Upper

146 100

111 42.8 21.4 64.3

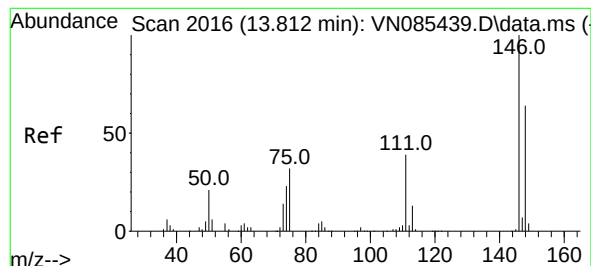
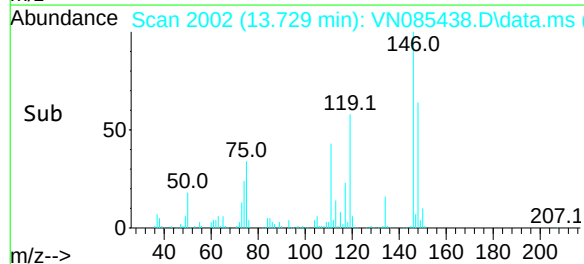
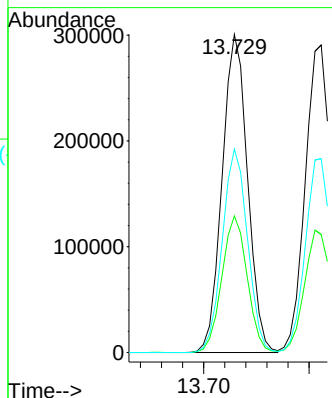
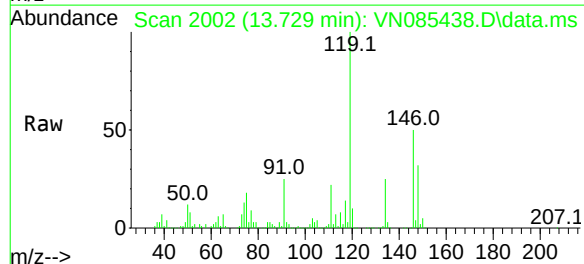
148 63.6 32.3 96.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#88

1,4-Dichlorobenzene

Concen: 101.341 ug/l

RT: 13.811 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

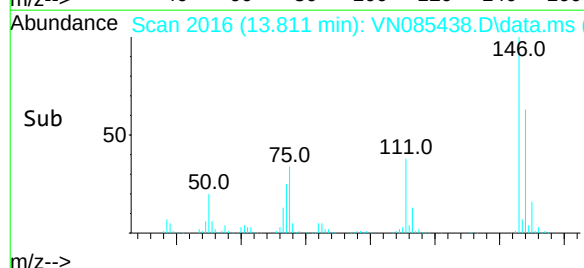
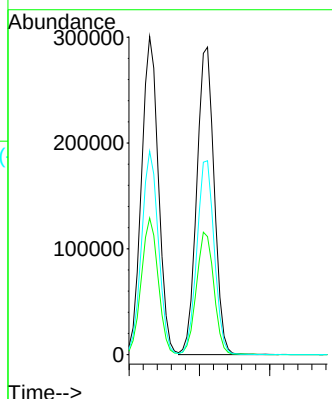
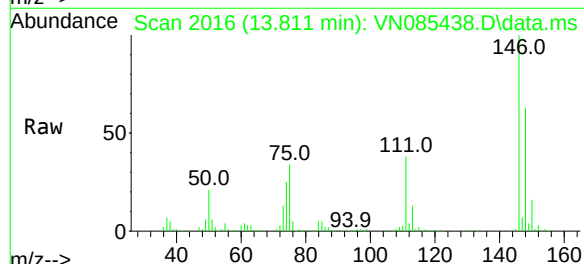
Tgt Ion:146 Resp: 498709

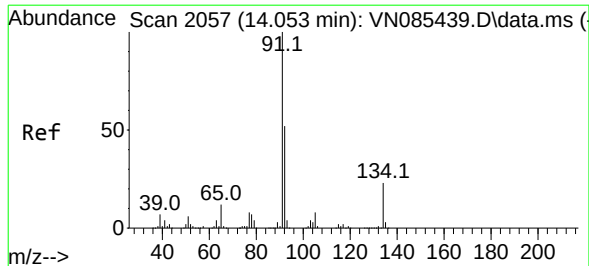
Ion Ratio Lower Upper

146 100

111 40.1 21.3 63.7

148 63.1 32.4 97.0





#89

n-Butylbenzene

Concen: 123.781 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

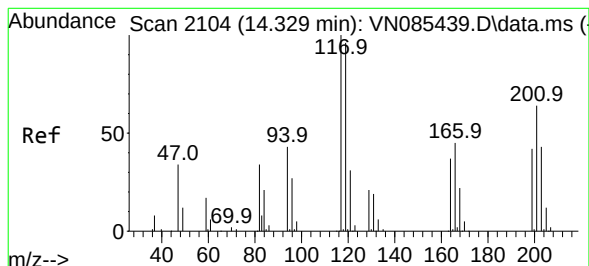
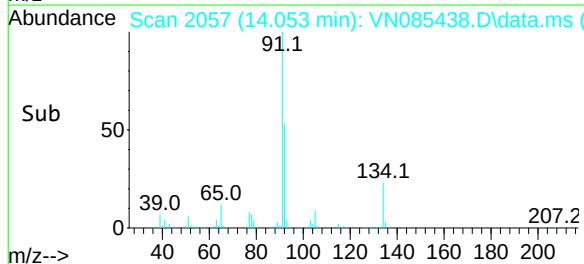
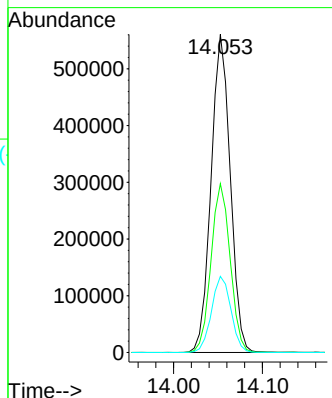
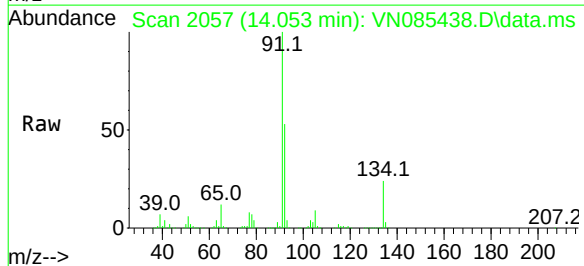
ClientSampleId :

VSTDIC100

Tgt Ion:	91	Resp:	842368
Ion	Ratio	Lower	Upper
91	100		
92	52.8	25.8	77.3
134	24.3	11.7	35.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#90

Hexachloroethane

Concen: 104.405 ug/l

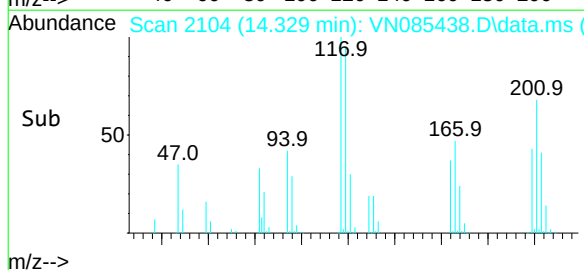
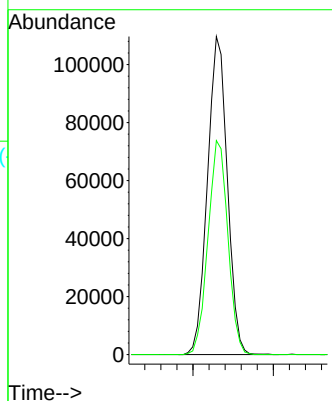
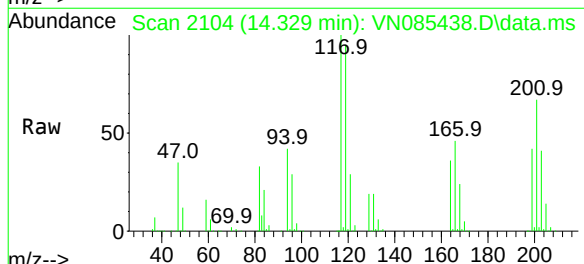
RT: 14.329 min Scan# 2104

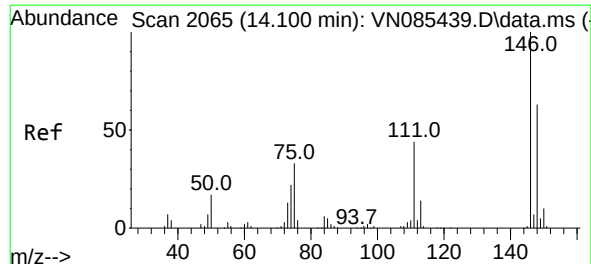
Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion:	117	Resp:	188541
Ion	Ratio	Lower	Upper
117	100		
201	67.2	33.7	101.0





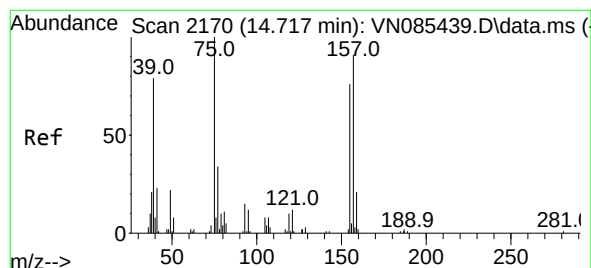
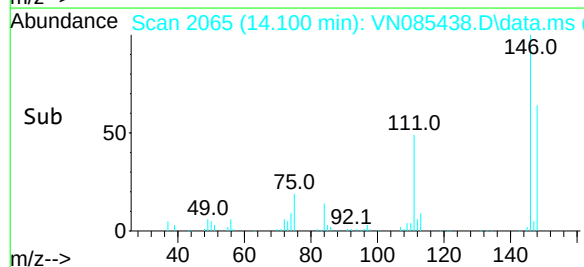
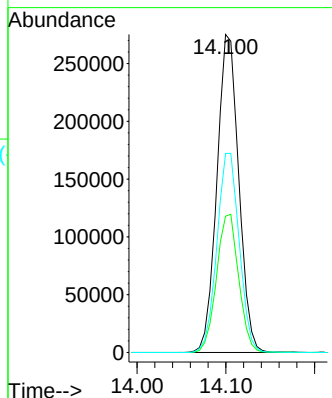
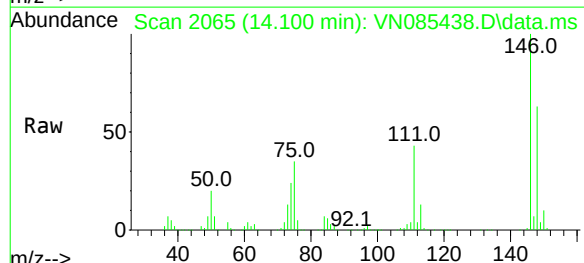
#91
1,2-Dichlorobenzene
Concen: 99.445 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 470919
Ion Ratio Lower Upper
146 100
111 43.9 21.7 65.1
148 64.0 31.4 94.2

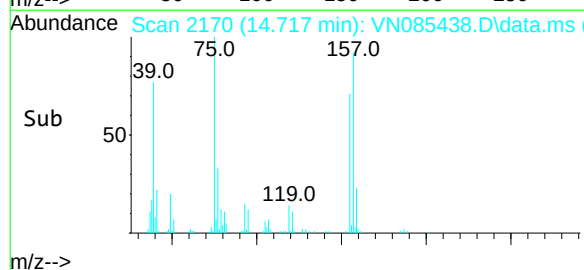
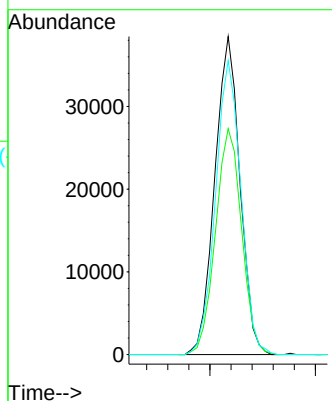
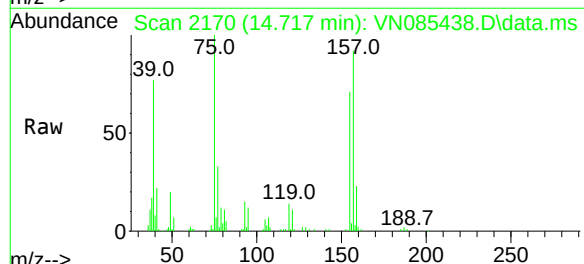
Manual Integrations
APPROVED

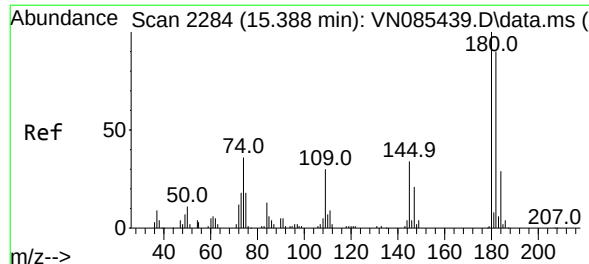
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 100.313 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 75 Resp: 63846
Ion Ratio Lower Upper
75 100
155 73.5 36.4 109.2
157 93.0 45.4 136.1





#93

1,2,4-Trichlorobenzene

Concen: 113.946 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:180 Resp: 250787

Ion Ratio Lower Upper

180 100

182 94.9 46.8 140.3

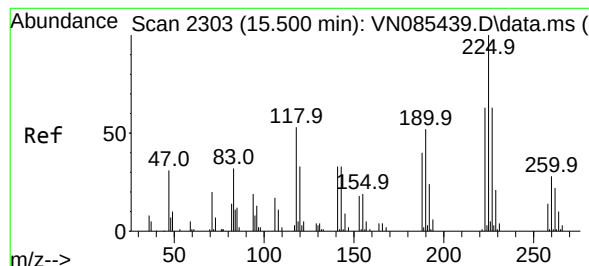
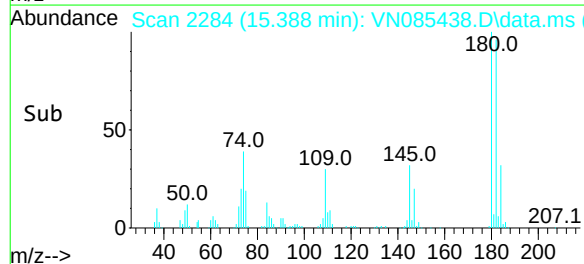
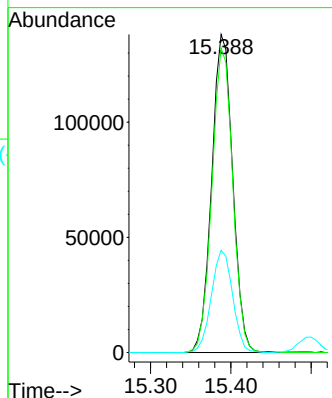
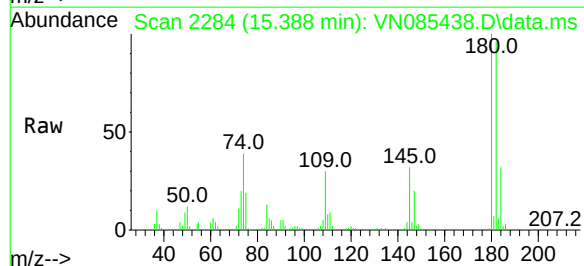
145 32.6 16.0 48.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#94

Hexachlorobutadiene

Concen: 96.619 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

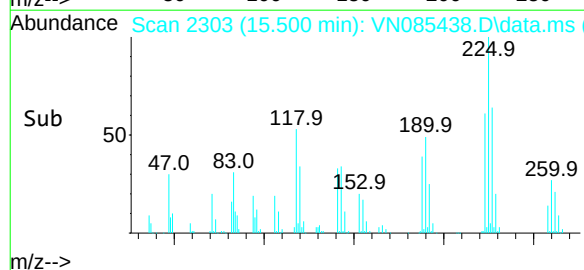
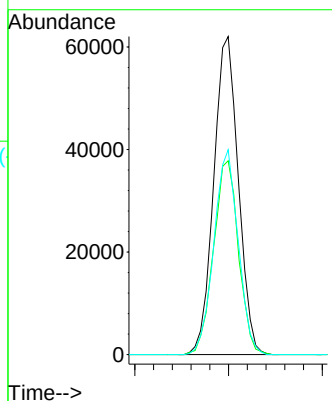
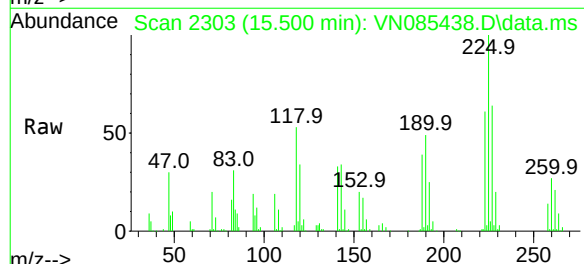
Tgt Ion:225 Resp: 112899

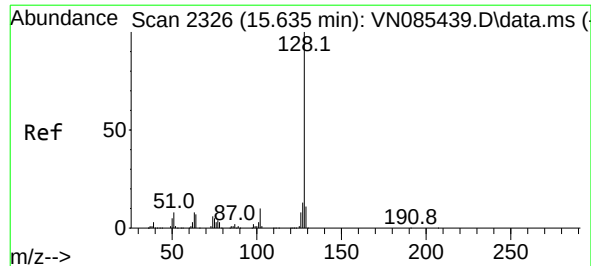
Ion Ratio Lower Upper

225 100

223 61.8 30.7 92.1

227 63.6 30.9 92.5





#95

Naphthalene

Concen: 115.234 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:128 Resp: 756816

Ion Ratio Lower Upper

128 100

127 13.1 10.6 16.0

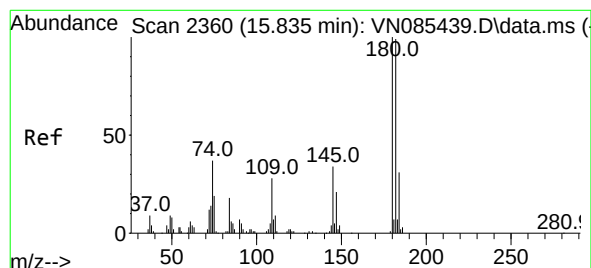
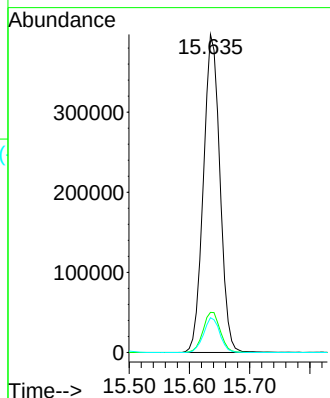
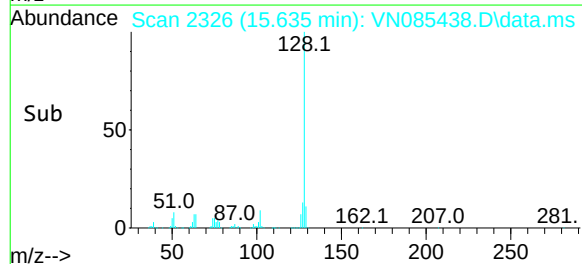
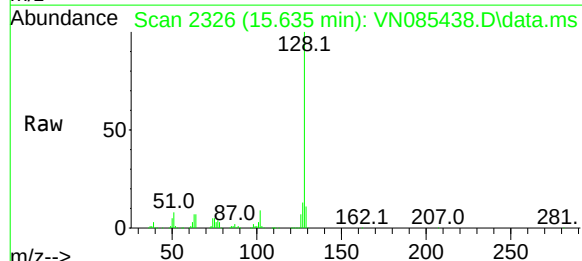
129 10.8 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#96

1,2,3-Trichlorobenzene

Concen: 107.256 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

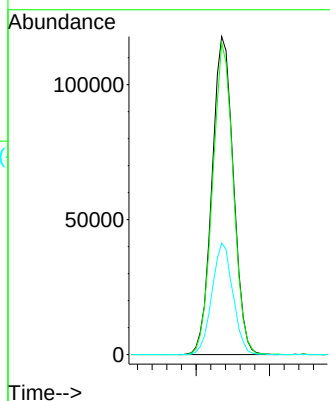
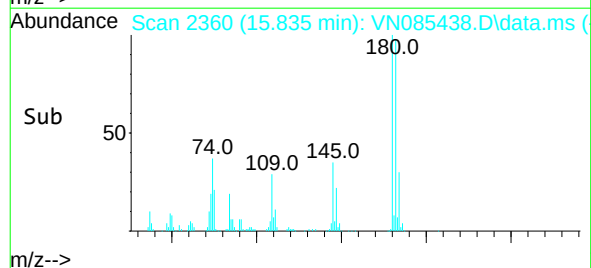
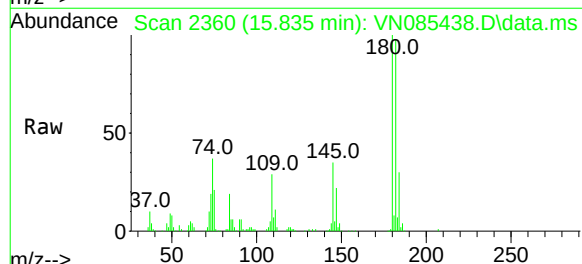
Tgt Ion:180 Resp: 238860

Ion Ratio Lower Upper

180 100

182 95.0 47.4 142.2

145 34.3 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085439.D
 Acq On : 14 Jan 2025 15:19
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Quant Time: Jan 15 01:42:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	199403	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	339872	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	297366	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	146624	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.571	65	165768	51.500	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	103.000%
35) Dibromofluoromethane	8.159	113	121554	51.552	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.100%
50) Toluene-d8	10.565	98	430698	51.411	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.820%
62) 4-Bromofluorobenzene	12.847	95	152568	53.239	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	106.480%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	125504	46.486	ug/l	100
3) Chloromethane	2.359	50	135631	46.398	ug/l	100
4) Vinyl Chloride	2.512	62	136831	46.569	ug/l	100
5) Bromomethane	2.953	94	83199	46.877	ug/l	100
6) Chloroethane	3.118	64	84517	45.371	ug/l	100
7) Trichlorofluoromethane	3.501	101	198726	46.613	ug/l	100
8) Diethyl Ether	3.953	74	71764	48.726	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	108081	45.010	ug/l	100
10) Methyl Iodide	4.589	142	143383	52.142	ug/l	100
11) Tert butyl alcohol	5.512	59	92841	251.894	ug/l	100
12) 1,1-Dichloroethene	4.342	96	106247	49.647	ug/l	100
13) Acrolein	4.171	56	139234	276.734	ug/l	100
14) Allyl chloride	5.018	41	168654	48.567	ug/l	100
15) Acrylonitrile	5.712	53	296781	253.507	ug/l	100
16) Acetone	4.418	43	251271	241.603	ug/l	100
17) Carbon Disulfide	4.706	76	294604	44.710	ug/l	100
18) Methyl Acetate	5.018	43	157485	49.798	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	373561	53.758	ug/l	100
20) Methylene Chloride	5.271	84	125508	48.748	ug/l	100
21) trans-1,2-Dichloroethene	5.783	96	110684	48.395	ug/l	100
22) Diisopropyl ether	6.665	45	406253	52.707	ug/l	100
23) Vinyl Acetate	6.594	43	1491031	275.471	ug/l	100
24) 1,1-Dichloroethane	6.565	63	233336	49.648	ug/l	100
25) 2-Butanone	7.477	43	388457	253.815	ug/l	100
26) 2,2-Dichloropropane	7.483	77	186591	49.106	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	136229	50.571	ug/l	100
28) Bromochloromethane	7.806	49	108148	49.461	ug/l	100
29) Tetrahydrofuran	7.830	42	259683	267.624	ug/l	100
30) Chloroform	7.959	83	234271	48.229	ug/l	100
31) Cyclohexane	8.253	56	175588	42.984	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	202590	47.547	ug/l	100
36) 1,1-Dichloropropene	8.365	75	157031	47.453	ug/l	100
37) Ethyl Acetate	7.553	43	165866	49.658	ug/l	100
38) Carbon Tetrachloride	8.359	117	180199	47.564	ug/l	100
39) Methylcyclohexane	9.600	83	157234	50.562	ug/l	100
40) Benzene	8.600	78	492606	49.542	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085439.D
 Acq On : 14 Jan 2025 15:19
 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 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:42:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	91711	52.775	ug/l	100
42) 1,2-Dichloroethane	8.665	62	186065	49.685	ug/l	100
43) Isopropyl Acetate	8.683	43	276228	51.611	ug/l	100
44) Trichloroethene	9.347	130	109953	47.506	ug/l	100
45) 1,2-Dichloropropane	9.618	63	126084	49.644	ug/l	100
46) Dibromomethane	9.706	93	90670	49.476	ug/l	100
47) Bromodichloromethane	9.882	83	189915	50.867	ug/l	100
48) Methyl methacrylate	9.677	41	133399	55.385	ug/l	100
49) 1,4-Dioxane	9.688	88	43048	1061.334	ug/l	100
51) 4-Methyl-2-Pentanone	10.441	43	836707	269.403	ug/l	100
52) Toluene	10.624	92	295792	51.341	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	187439	53.125	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	199771	53.006	ug/l	100
55) 1,1,2-Trichloroethane	11.012	97	115462	50.641	ug/l	100
56) Ethyl methacrylate	10.871	69	184775	48.182	ug/l	100
57) 1,3-Dichloropropane	11.159	76	204590	51.606	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	409594	283.088	ug/l	100
59) 2-Hexanone	11.188	43	606740	277.643	ug/l	100
60) Dibromochloromethane	11.353	129	140704	51.116	ug/l	100
61) 1,2-Dibromoethane	11.465	107	113541	50.028	ug/l	100
64) Tetrachloroethene	11.100	164	95879	47.295	ug/l	100
65) Chlorobenzene	11.888	112	319992	49.121	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	116488	48.722	ug/l	100
67) Ethyl Benzene	11.959	91	555322	52.339	ug/l	100
68) m/p-Xylenes	12.065	106	420702	107.286	ug/l	100
69) o-Xylene	12.394	106	202597	54.062	ug/l	100
70) Styrene	12.406	104	348720	56.227	ug/l	100
71) Bromoform	12.576	173	92366	53.993	ug/l #	100
73) Isopropylbenzene	12.688	105	505619	51.094	ug/l	100
74) N-amyl acetate	12.488	43	237870	53.478	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	167856	48.019	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	130866m	43.982	ug/l	
77) Bromobenzene	12.976	156	125800	48.657	ug/l	100
78) n-propylbenzene	13.029	91	609022	51.986	ug/l	100
79) 2-Chlorotoluene	13.123	91	378981	49.985	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	431021	52.730	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	57184	51.914	ug/l	100
82) 4-Chlorotoluene	13.218	91	379524	50.273	ug/l	100
83) tert-Butylbenzene	13.435	119	357563	52.090	ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	442175	54.275	ug/l	100
85) sec-Butylbenzene	13.612	105	501561	52.719	ug/l	100
86) p-Isopropyltoluene	13.723	119	421052	49.240	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	229518	48.204	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	229084	46.416	ug/l	100
89) n-Butylbenzene	14.053	91	364111	53.348	ug/l	100
90) Hexachloroethane	14.329	117	84602	46.712	ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	228024	48.012	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	32536	50.971	ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	114468	51.857	ug/l	100
94) Hexachlorobutadiene	15.500	225	53846	45.947	ug/l	100
95) Naphthalene	15.635	128	363882	55.243	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	115251	51.601	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085439.D
Acq On : 14 Jan 2025 15:19
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 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:42:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

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

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

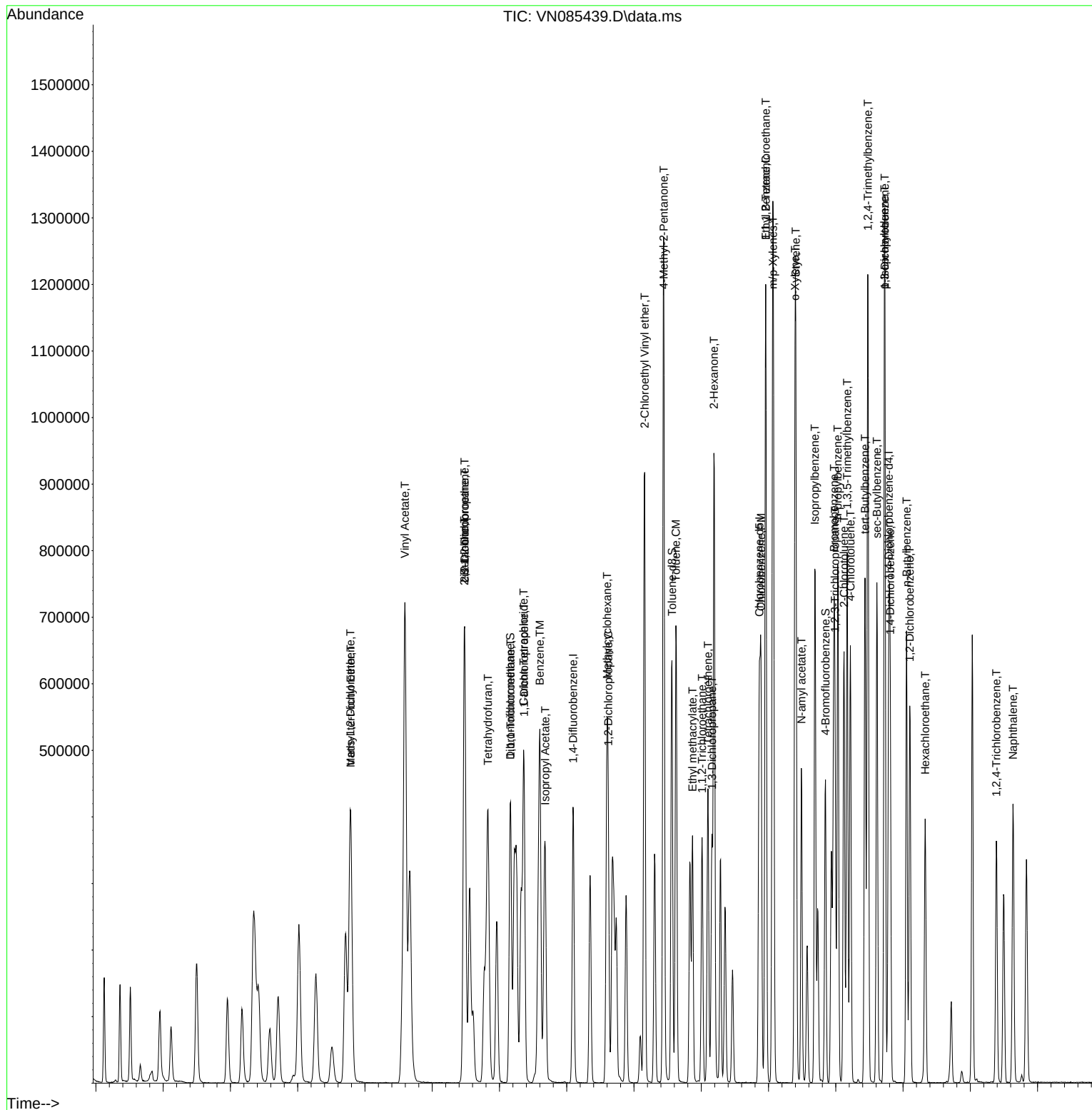
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Data File : VN085439.D
Acq On : 14 Jan 2025 15:19
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

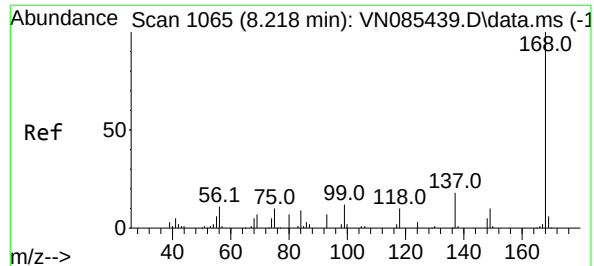
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Quant Time: Jan 15 01:42:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025





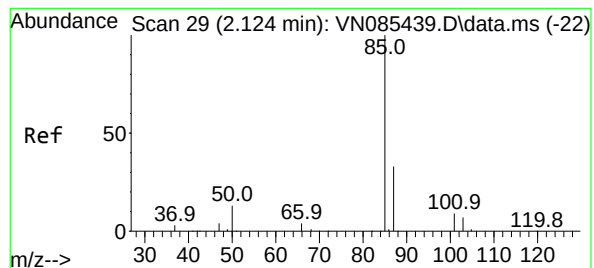
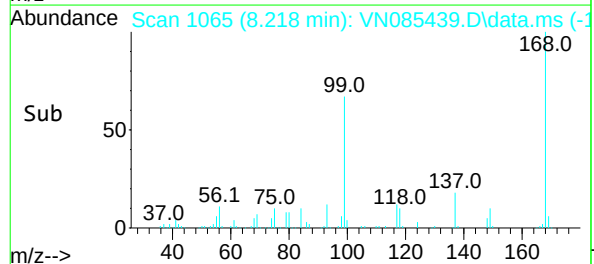
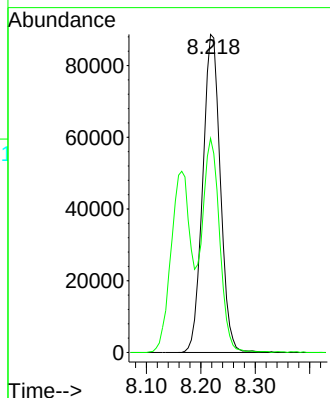
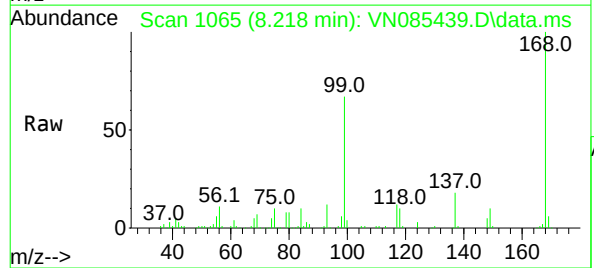
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 199403
Ion Ratio Lower Upper
168 100
99 67.0 53.6 80.4

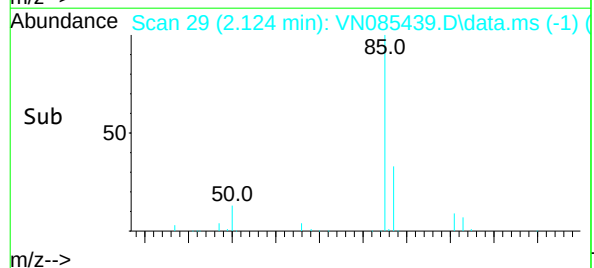
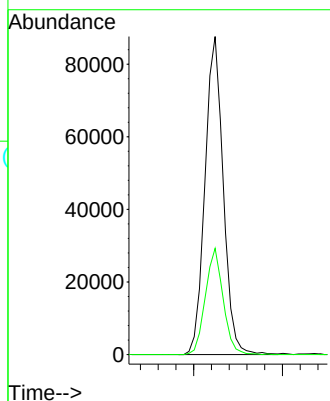
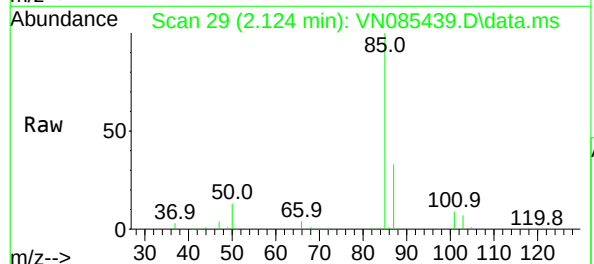
Manual Integrations
APPROVED

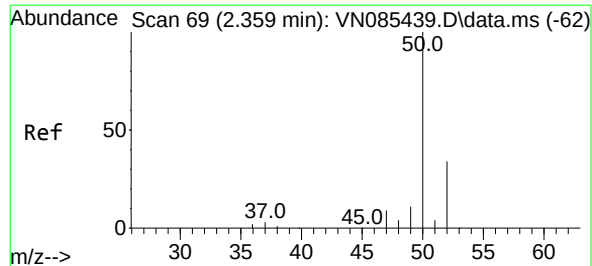
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#2
Dichlorodifluoromethane
Concen: 46.486 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 85 Resp: 125504
Ion Ratio Lower Upper
85 100
87 33.4 16.7 50.1





#3

Chloromethane

Concen: 46.398 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 50 Resp: 135631

Ion Ratio Lower Upper

50 100

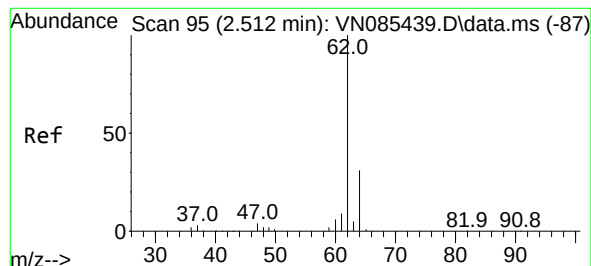
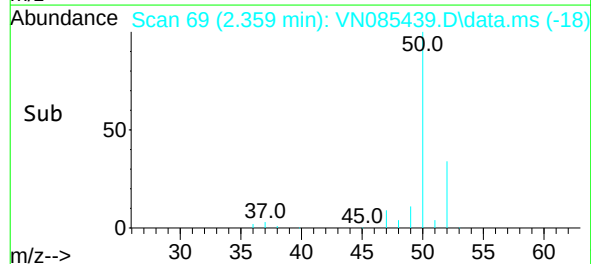
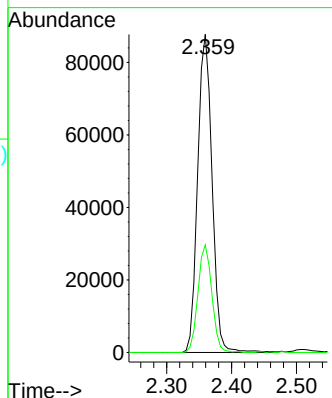
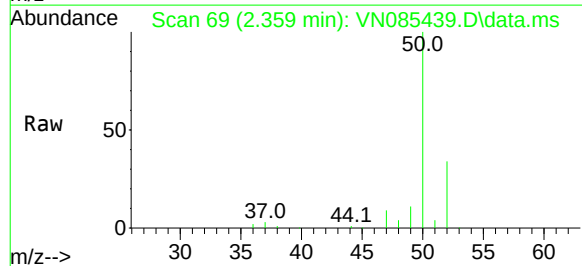
52 33.8 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#4

Vinyl Chloride

Concen: 46.569 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN085439.D

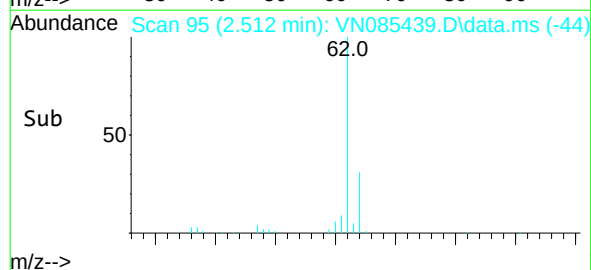
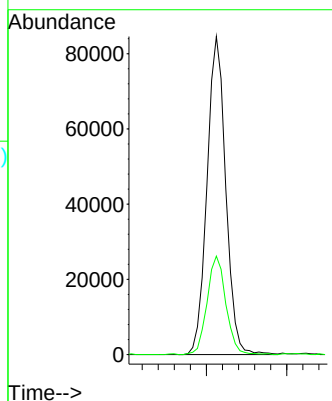
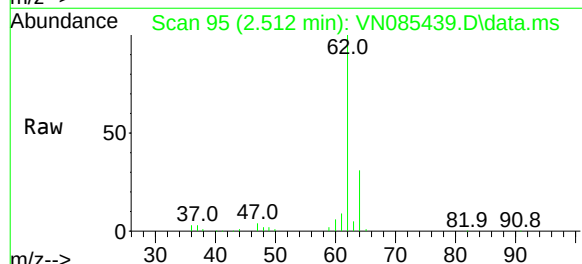
Acq: 14 Jan 2025 15:19

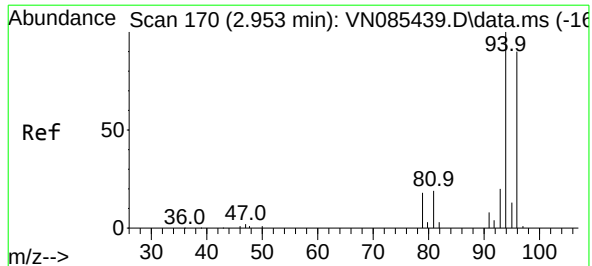
Tgt Ion: 62 Resp: 136831

Ion Ratio Lower Upper

62 100

64 31.0 24.8 37.2





#5

Bromomethane

Concen: 46.877 ug/l

RT: 2.953 min Scan# 170

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 94 Resp: 83199

Ion Ratio Lower Upper

94 100

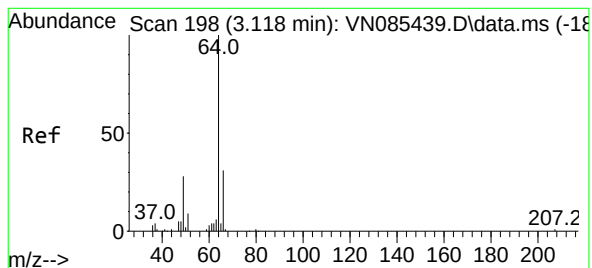
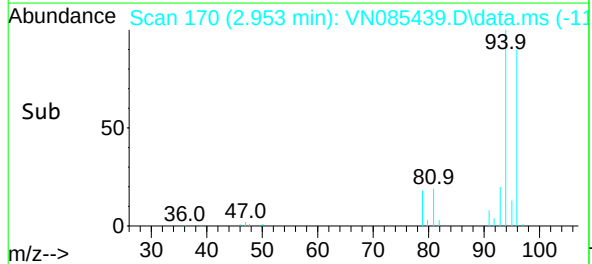
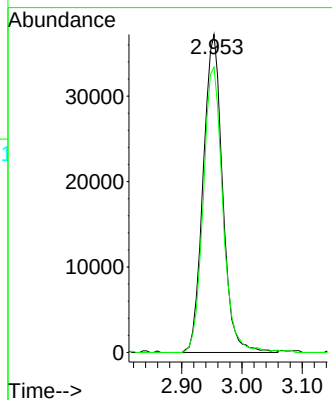
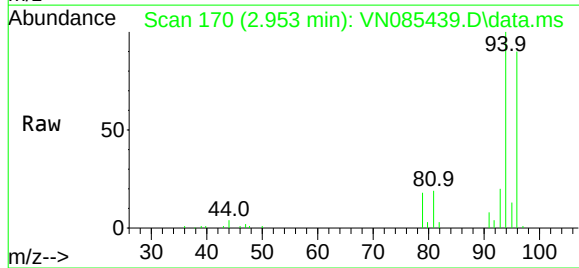
96 89.7 71.8 107.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#6

Chloroethane

Concen: 45.371 ug/l

RT: 3.118 min Scan# 198

Delta R.T. 0.000 min

Lab File: VN085439.D

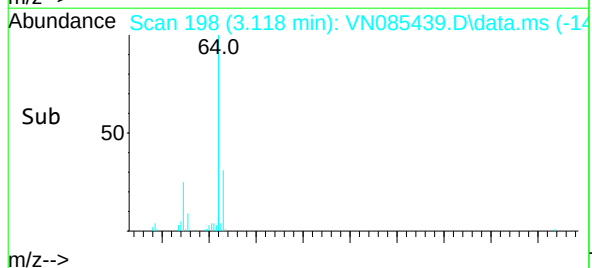
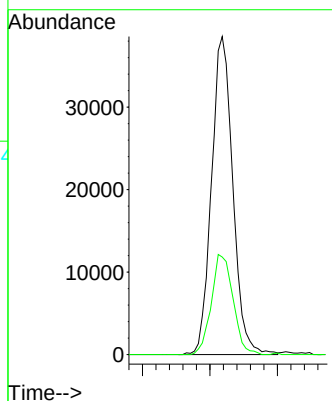
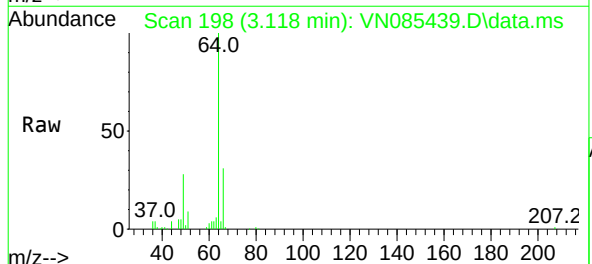
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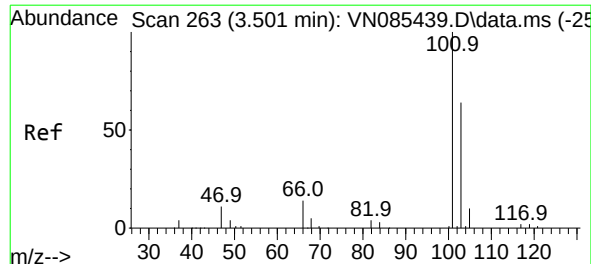
Tgt Ion: 64 Resp: 84517

Ion Ratio Lower Upper

64 100

66 30.7 24.6 36.8





#7

Trichlorofluoromethane

Concen: 46.613 ug/l

RT: 3.501 min Scan# 263

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:101 Resp: 198726

Ion Ratio Lower Upper

101 100

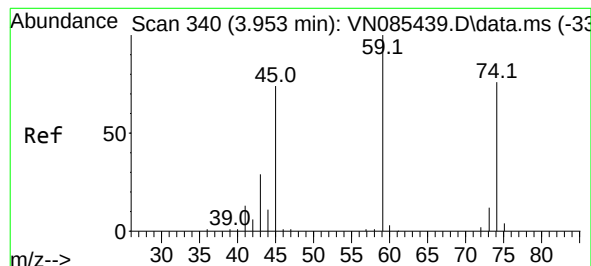
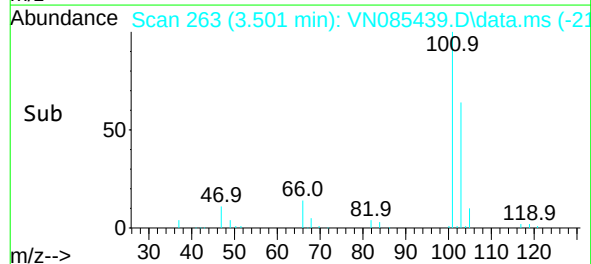
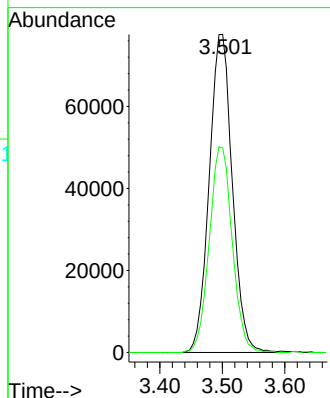
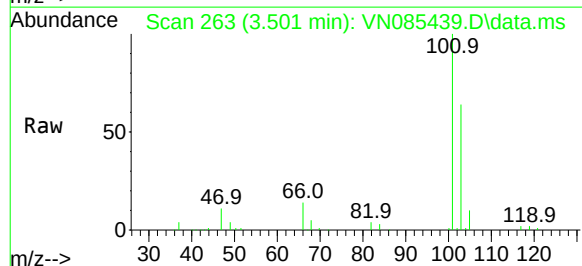
103 64.3 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#8

Diethyl Ether

Concen: 48.726 ug/l

RT: 3.953 min Scan# 340

Delta R.T. 0.000 min

Lab File: VN085439.D

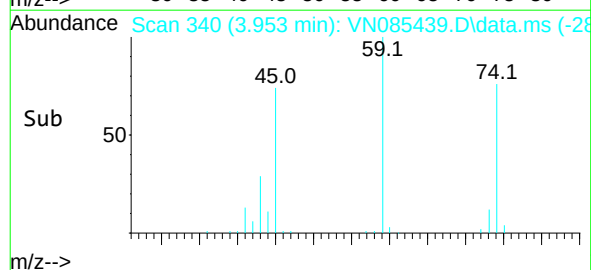
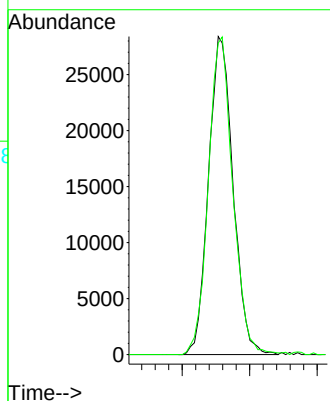
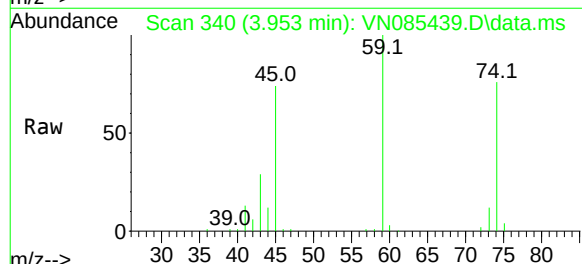
Acq: 14 Jan 2025 15:19

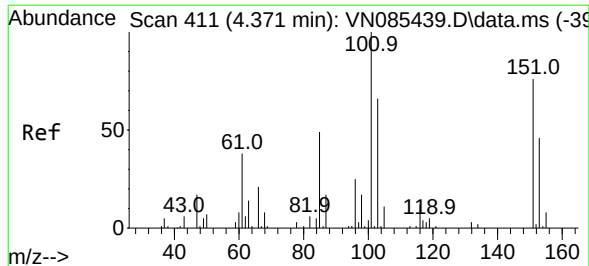
Tgt Ion: 74 Resp: 71764

Ion Ratio Lower Upper

74 100

45 99.4 49.7 149.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.010 ug/l

RT: 4.371 min Scan# 411

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:101 Resp: 108081

Ion Ratio Lower Upper

101 100

85 47.3 37.8 56.8

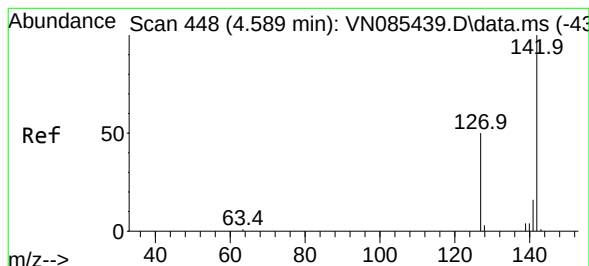
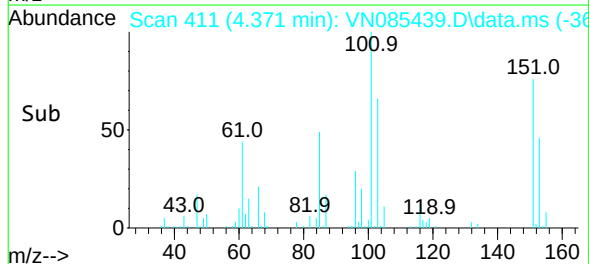
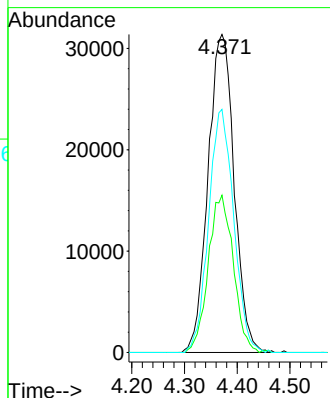
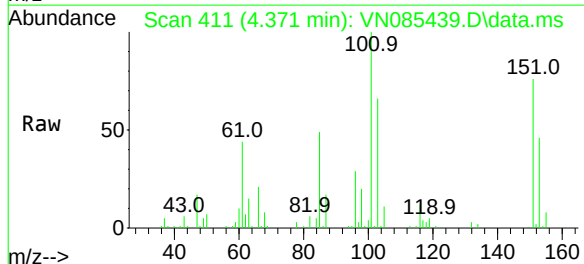
151 73.5 58.8 88.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#10

Methyl Iodide

Concen: 52.142 ug/l

RT: 4.589 min Scan# 448

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

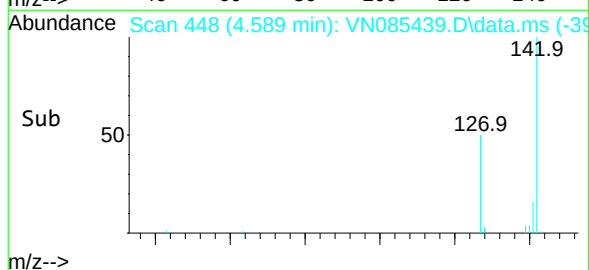
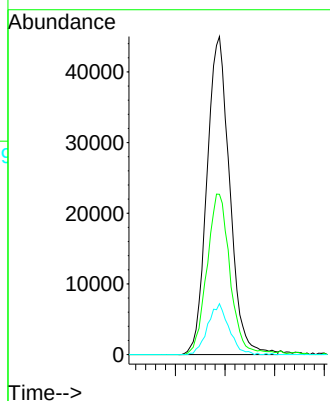
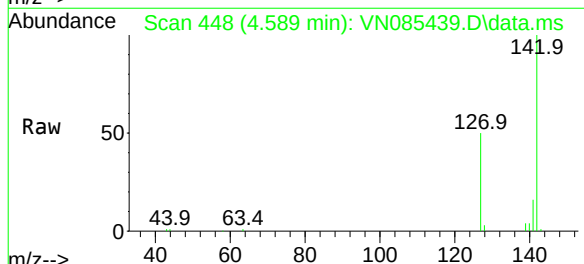
Tgt Ion:142 Resp: 143383

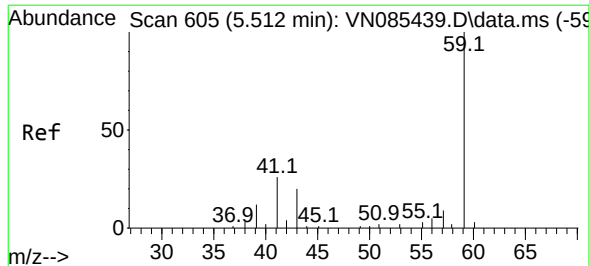
Ion Ratio Lower Upper

142 100

127 50.4 40.3 60.5

141 16.0 12.8 19.2





#11

Tert butyl alcohol

Concen: 251.894 ug/l

RT: 5.512 min Scan# 605

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 92841

Ion Ratio Lower Upper

59 100

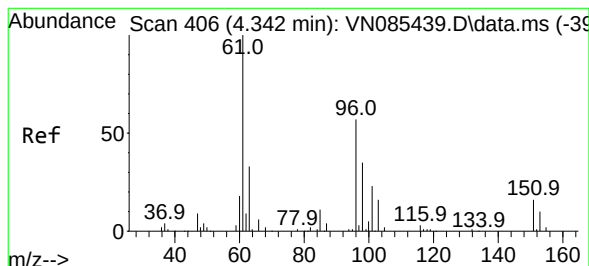
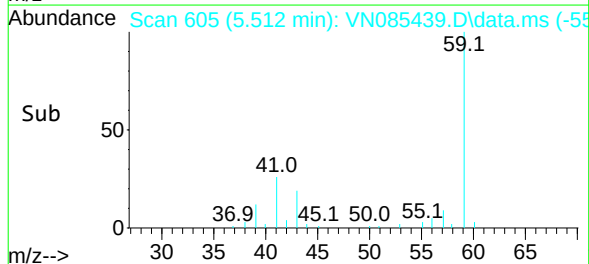
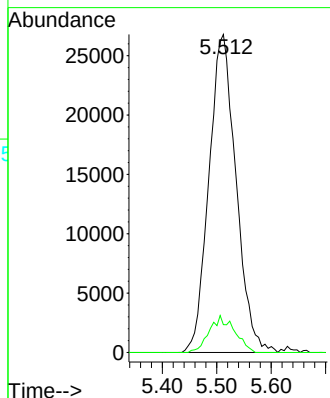
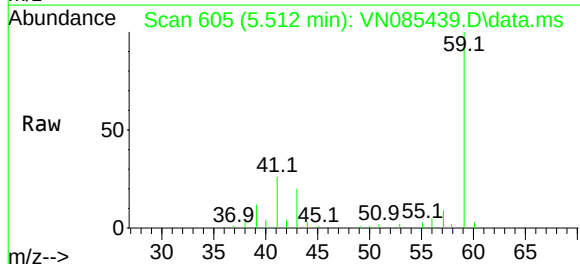
57 10.8 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#12

1,1-Dichloroethene

Concen: 49.647 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

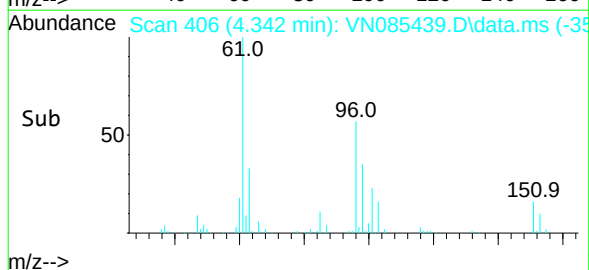
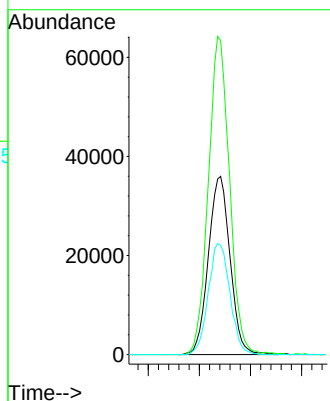
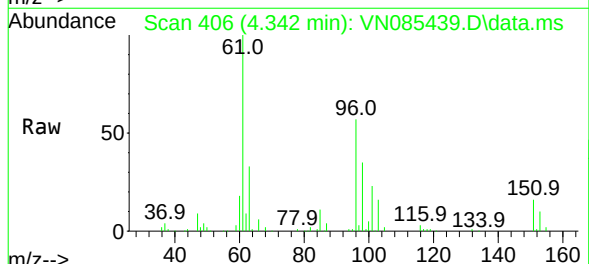
Tgt Ion: 96 Resp: 106247

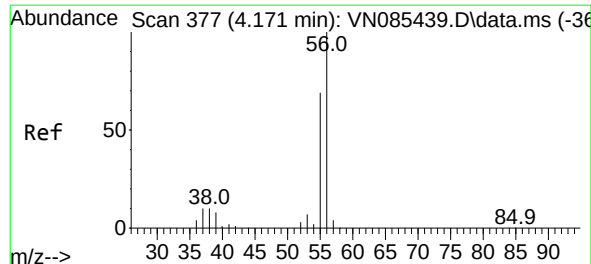
Ion Ratio Lower Upper

96 100

61 176.2 141.0 211.4

98 61.3 49.0 73.6





#13

Acrolein

Concen: 276.734 ug/l

RT: 4.171 min Scan# 377

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 139234

Ion Ratio Lower Upper

56 100

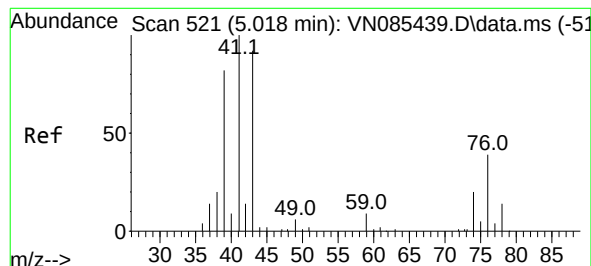
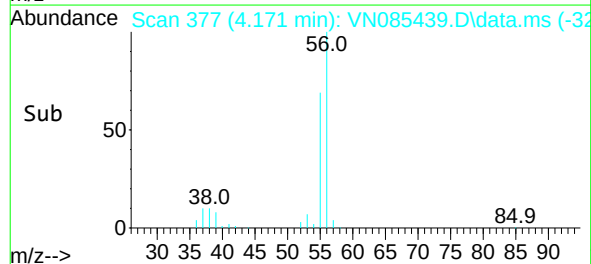
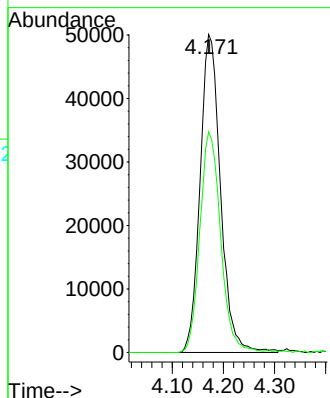
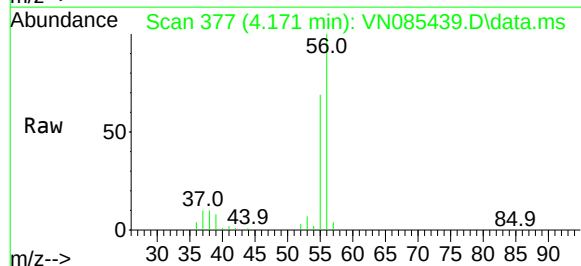
55 70.4 56.3 84.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#14

Allyl chloride

Concen: 48.567 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

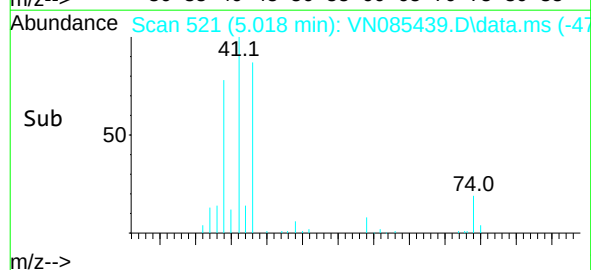
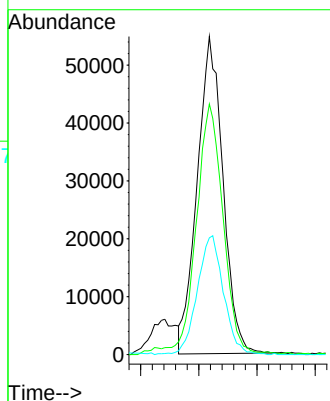
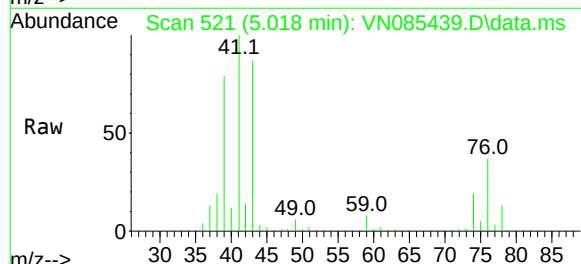
Tgt Ion: 41 Resp: 168654

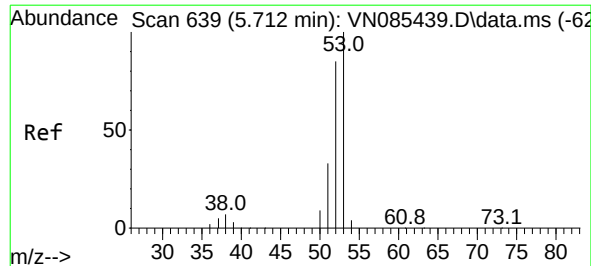
Ion Ratio Lower Upper

41 100

39 80.5 64.4 96.6

76 38.1 30.5 45.7





#15

Acrylonitrile

Concen: 253.507 ug/l

RT: 5.712 min Scan# 639

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

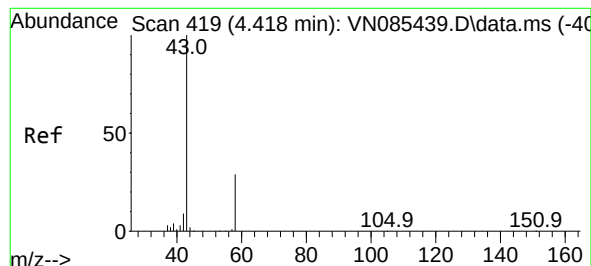
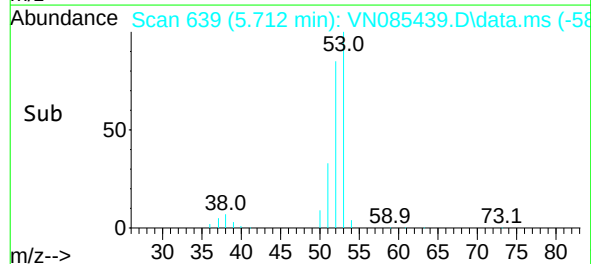
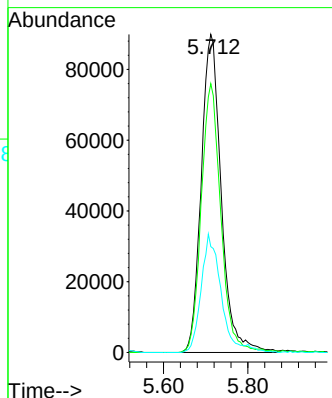
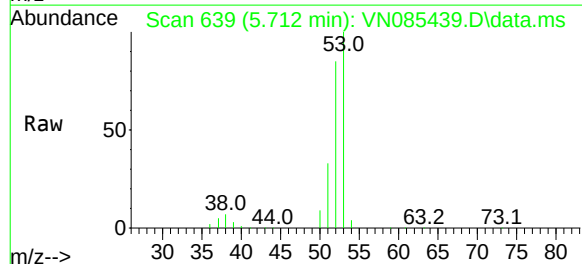
ClientSampleId :

VSTDICCC050

Tgt Ion:	53	Resp:	296781
Ion	Ratio	Lower	Upper
53	100		
52	81.9	65.5	98.3
51	37.3	29.8	44.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#16

Acetone

Concen: 241.603 ug/l

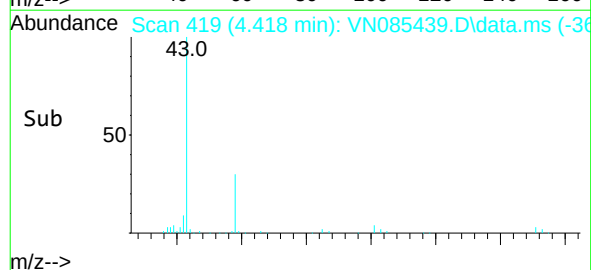
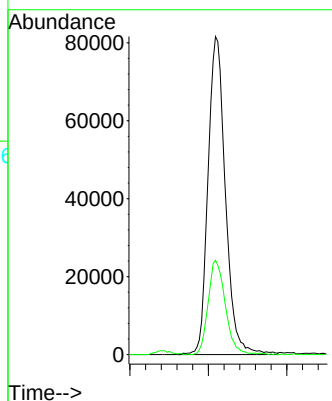
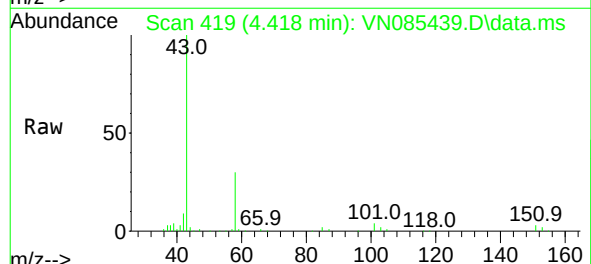
RT: 4.418 min Scan# 419

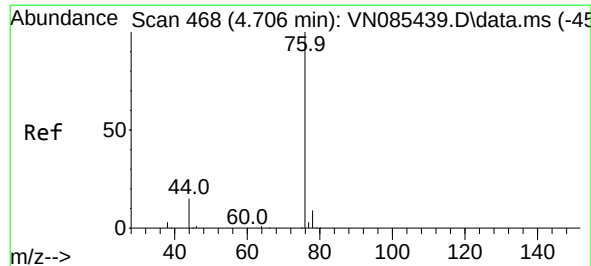
Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	43	Resp:	251271
Ion	Ratio	Lower	Upper
43	100		
58	29.7	23.8	35.6





#17

Carbon Disulfide

Concen: 44.710 ug/l

RT: 4.706 min Scan# 468

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 294604

Ion Ratio Lower Upper

76 100

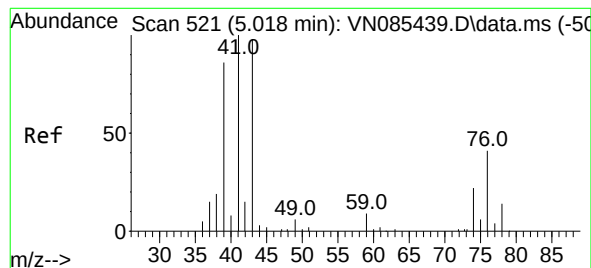
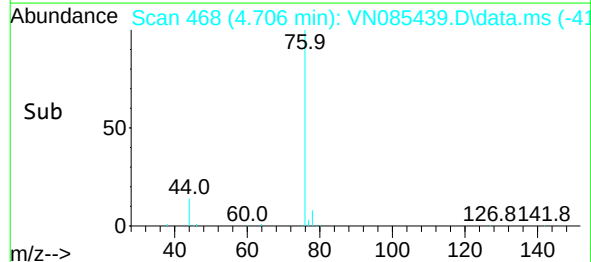
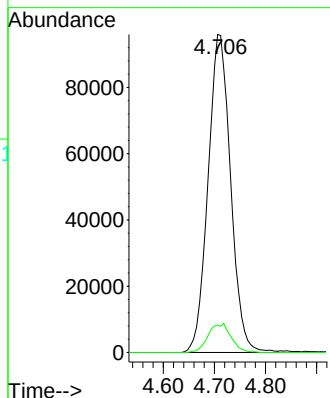
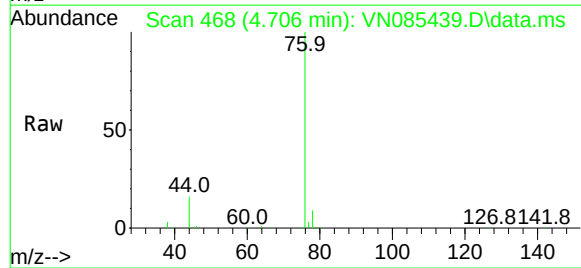
78 8.6 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#18

Methyl Acetate

Concen: 49.798 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085439.D

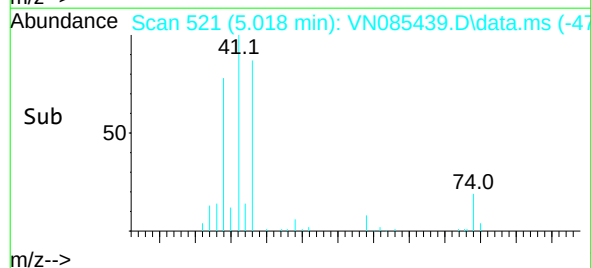
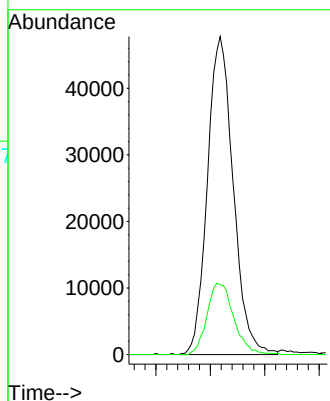
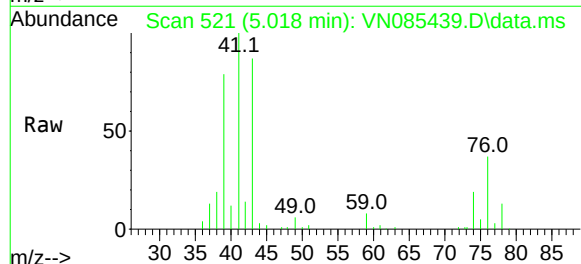
Acq: 14 Jan 2025 15:19

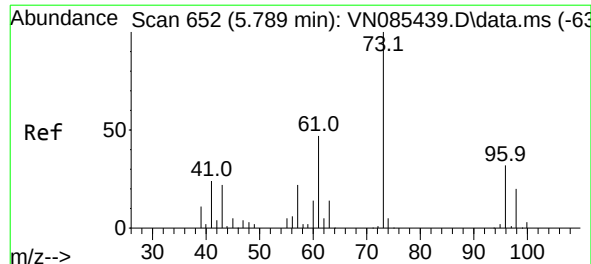
Tgt Ion: 43 Resp: 157485

Ion Ratio Lower Upper

43 100

74 23.3 18.6 28.0





#19

Methyl tert-butyl Ether

Concen: 53.758 ug/l

RT: 5.789 min Scan# 65

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 373561

Ion Ratio Lower Upper

73 100

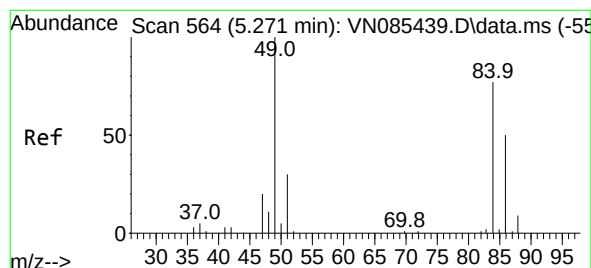
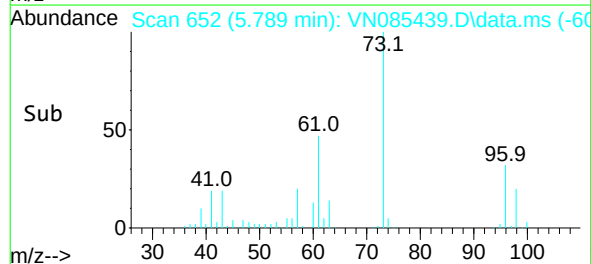
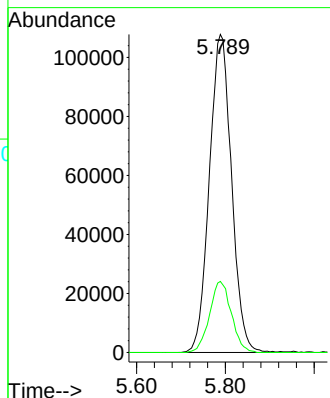
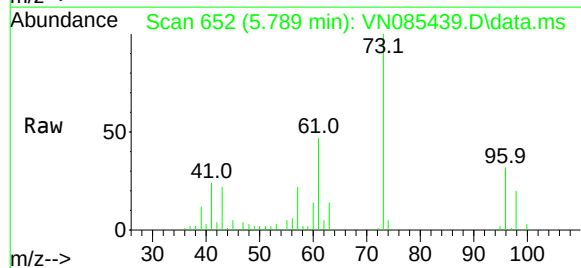
57 22.3 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#20

Methylene Chloride

Concen: 48.748 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion: 84 Resp: 125508

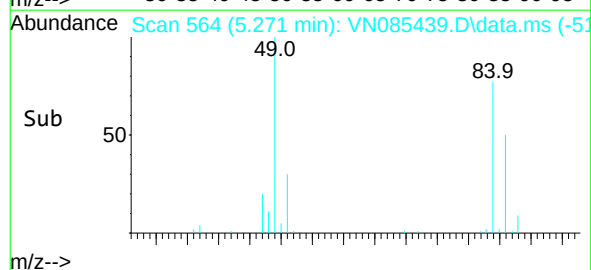
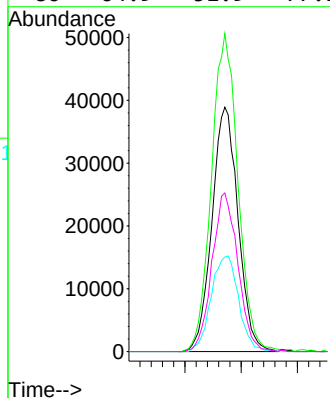
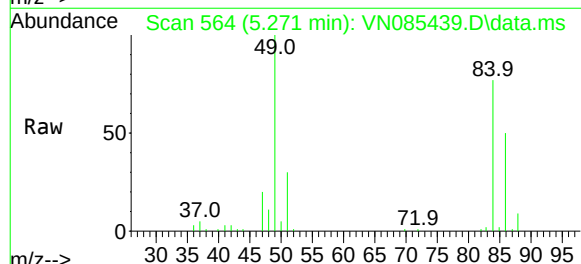
Ion Ratio Lower Upper

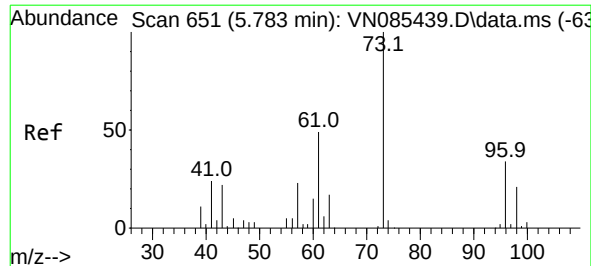
84 100

49 130.1 104.1 156.1

51 38.7 31.0 46.4

86 64.9 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 48.395 ug/l

RT: 5.783 min Scan# 651

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 110684

Ion Ratio Lower Upper

96 100

61 144.6 115.7 173.5

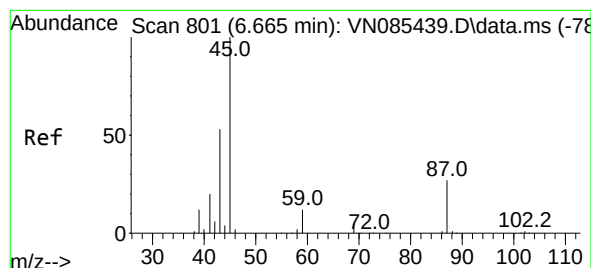
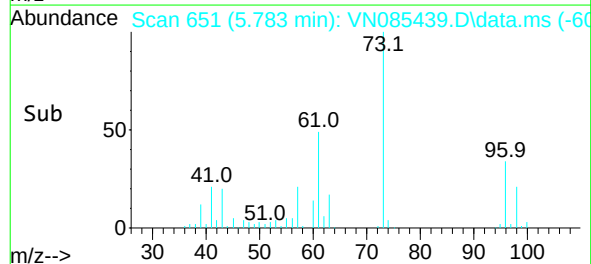
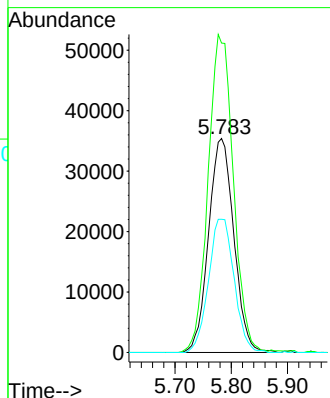
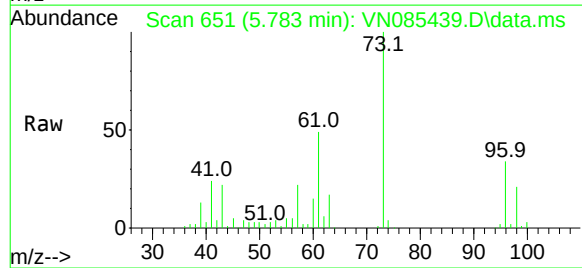
98 62.3 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#22

Diisopropyl ether

Concen: 52.707 ug/l

RT: 6.665 min Scan# 801

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion: 45 Resp: 406253

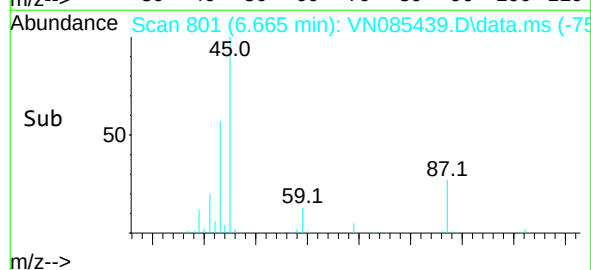
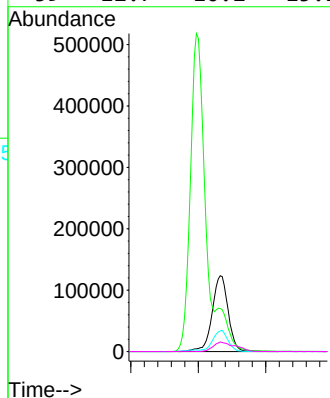
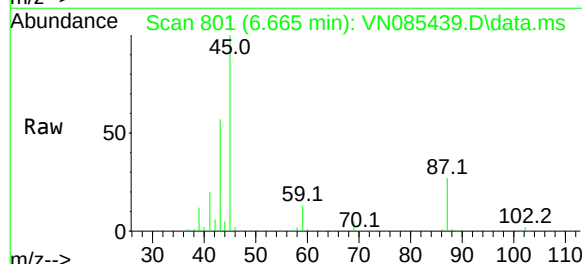
Ion Ratio Lower Upper

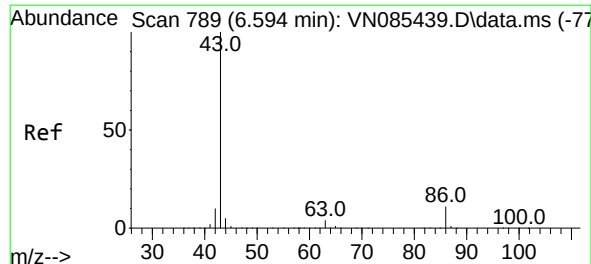
45 100

43 56.3 45.0 67.6

87 27.3 21.8 32.8

59 12.7 10.2 15.2





#23

Vinyl Acetate

Concen: 275.471 ug/l

RT: 6.594 min Scan# 789

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 1491031

Ion Ratio Lower Upper

43 100

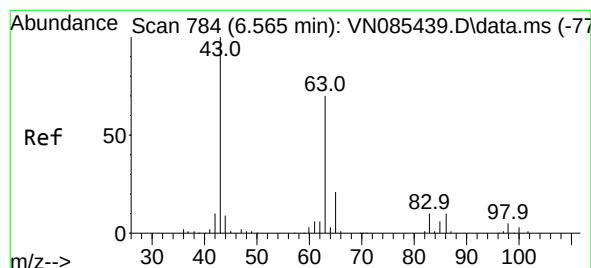
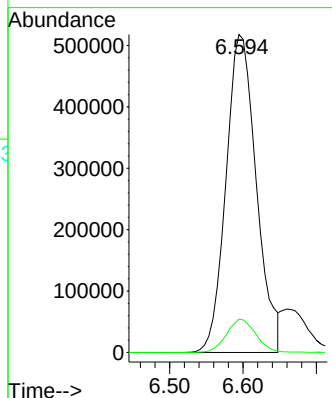
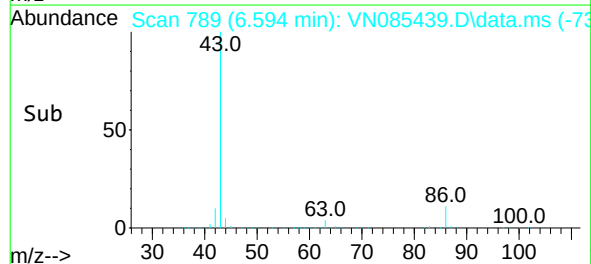
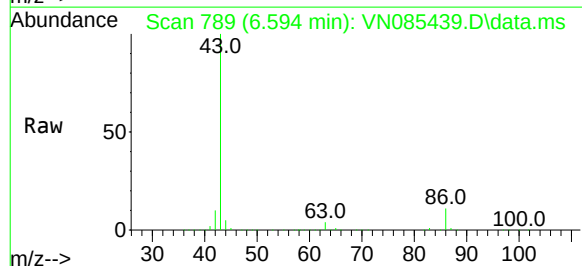
86 10.5 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#24

1,1-Dichloroethane

Concen: 49.648 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

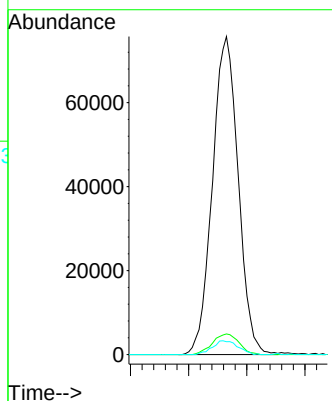
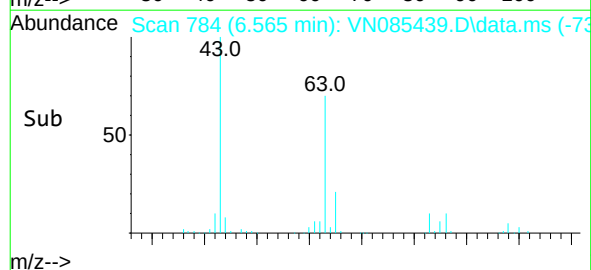
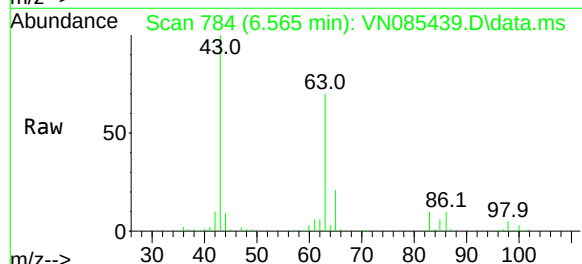
Tgt Ion: 63 Resp: 233336

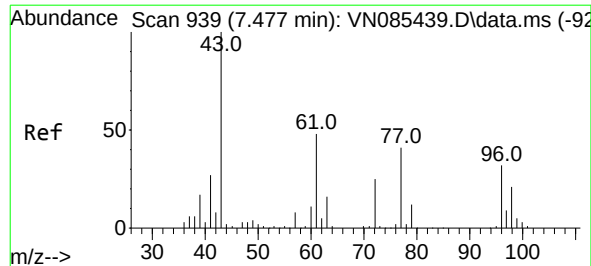
Ion Ratio Lower Upper

63 100

98 6.5 3.3 9.8

100 4.0 2.0 6.0





#25

2-Butanone

Concen: 253.815 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 388457

Ion Ratio Lower Upper

43 100

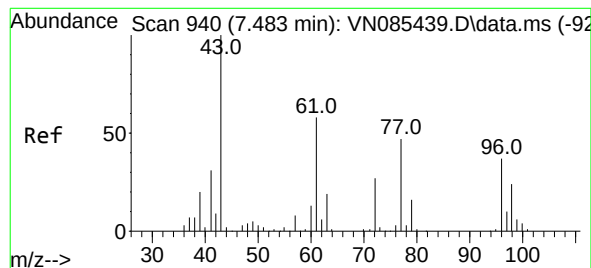
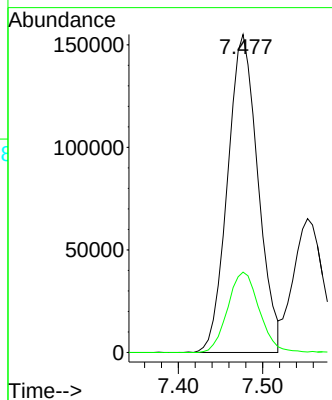
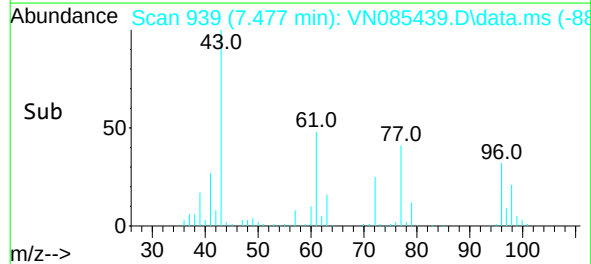
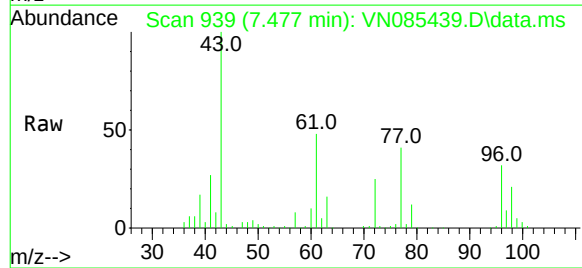
72 25.3 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#26

2,2-Dichloropropane

Concen: 49.106 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085439.D

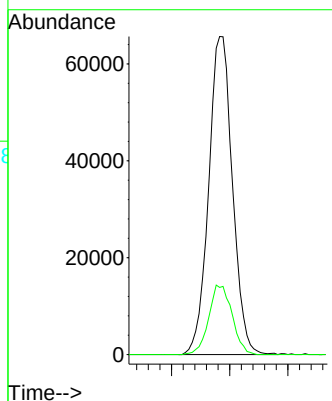
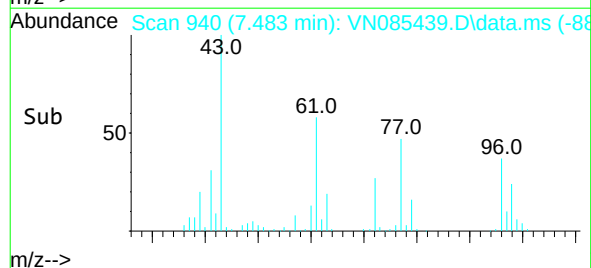
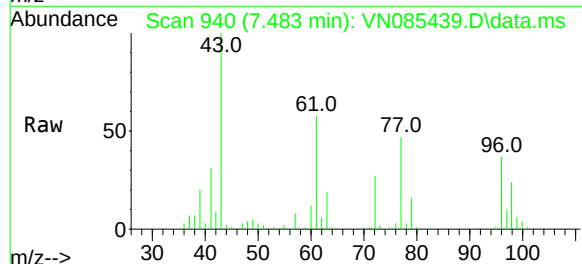
Acq: 14 Jan 2025 15:19

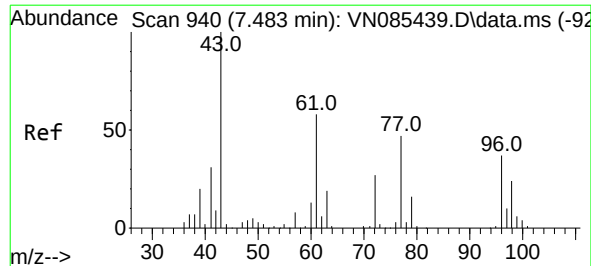
Tgt Ion: 77 Resp: 186591

Ion Ratio Lower Upper

77 100

97 21.4 10.7 32.1





#27

cis-1,2-Dichloroethene

Concen: 50.571 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 136229

Ion Ratio Lower Upper

96 100

61 155.9 0.0 311.8

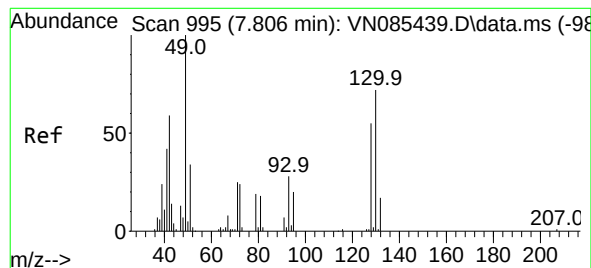
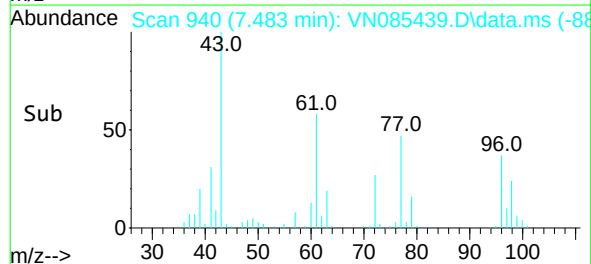
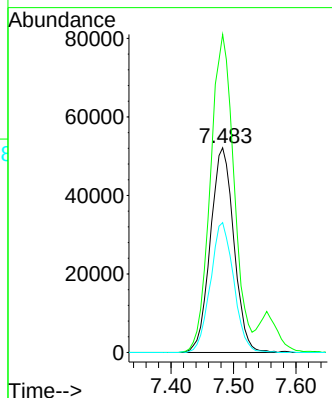
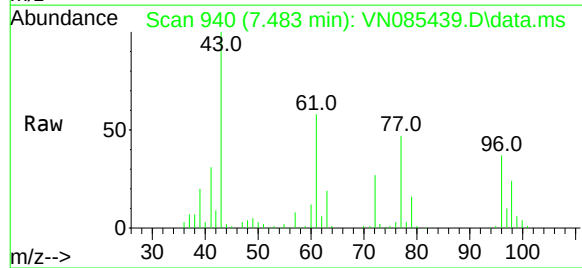
98 63.0 0.0 126.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#28

Bromochloromethane

Concen: 49.461 ug/l

RT: 7.806 min Scan# 995

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

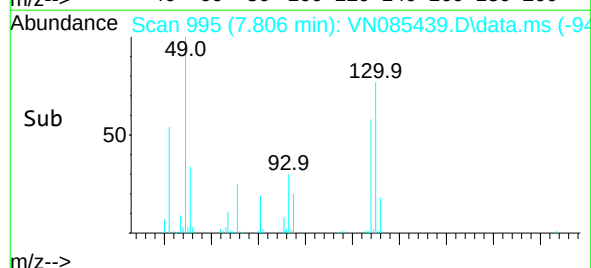
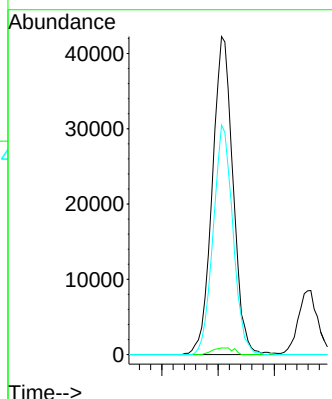
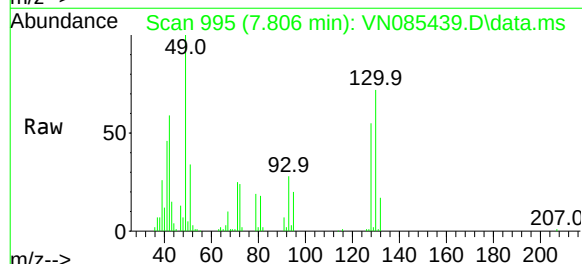
Tgt Ion: 49 Resp: 108148

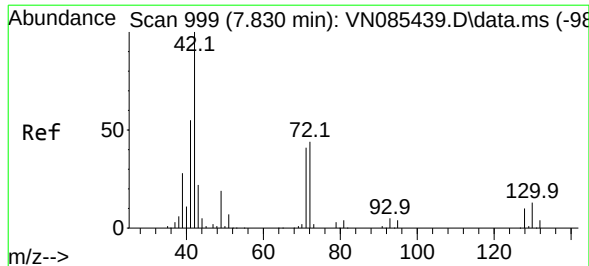
Ion Ratio Lower Upper

49 100

129 2.2 0.0 4.4

130 68.7 55.0 82.4





#29

Tetrahydrofuran

Concen: 267.624 ug/l

RT: 7.830 min Scan# 999

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

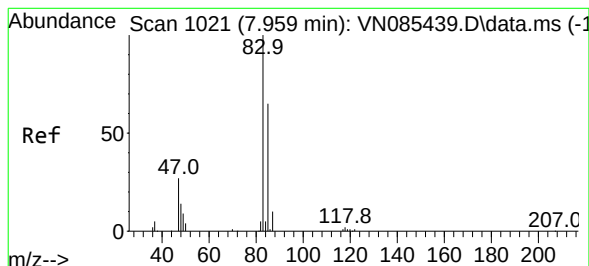
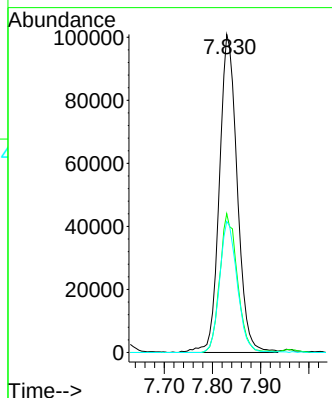
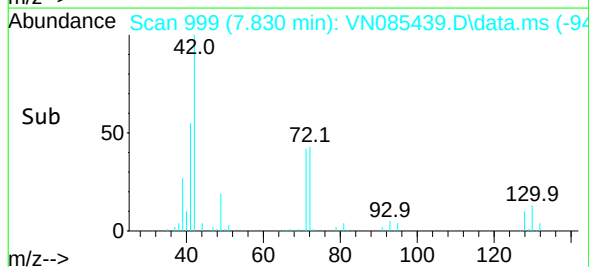
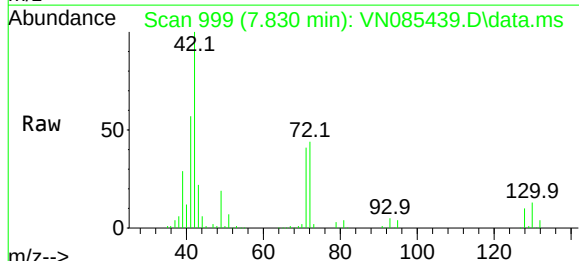
ClientSampleId :

VSTDICCC050

Tgt Ion:	42	Resp:	259683
Ion	Ratio	Lower	Upper
42	100		
72	42.7	34.2	51.2
71	40.6	32.5	48.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#30

Chloroform

Concen: 48.229 ug/l

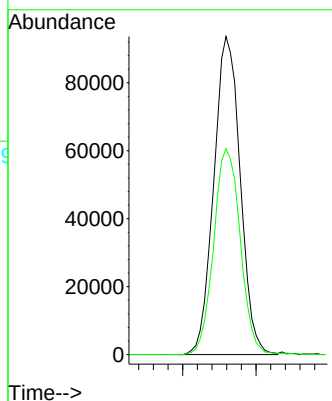
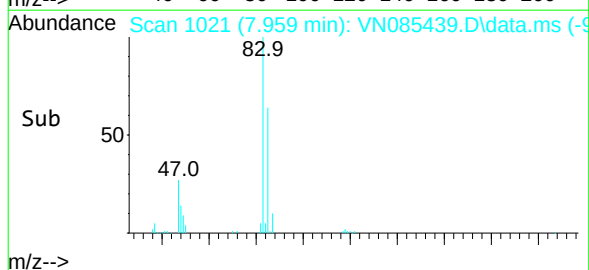
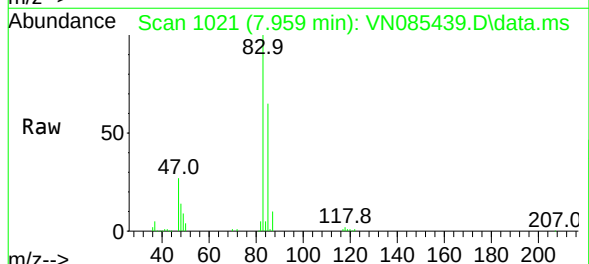
RT: 7.959 min Scan# 1021

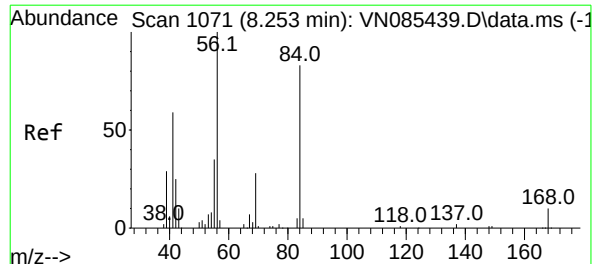
Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	83	Resp:	234271
Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.8	77.6





#31

Cyclohexane

Concen: 42.984 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 175588

Ion Ratio Lower Upper

56 100

69 27.8 22.2 33.4

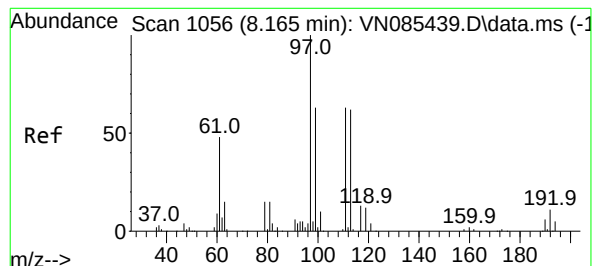
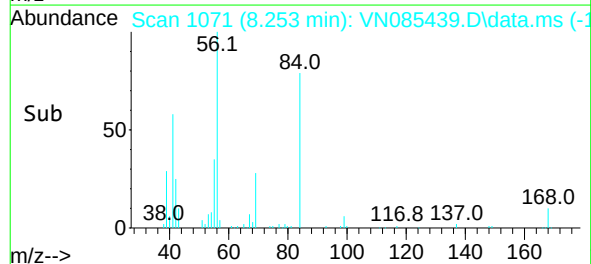
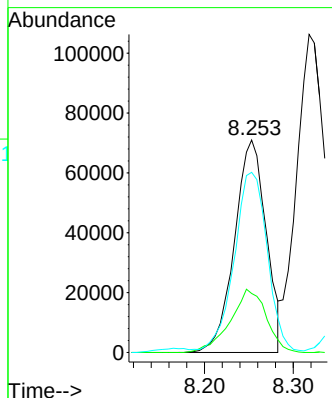
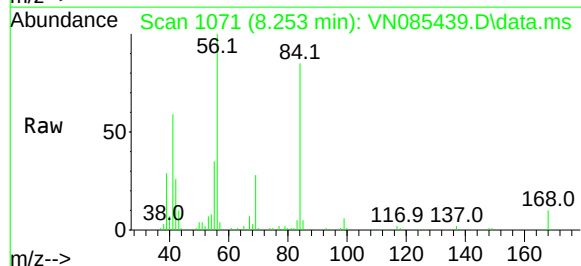
84 83.0 66.4 99.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#32

1,1,1-Trichloroethane

Concen: 47.547 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

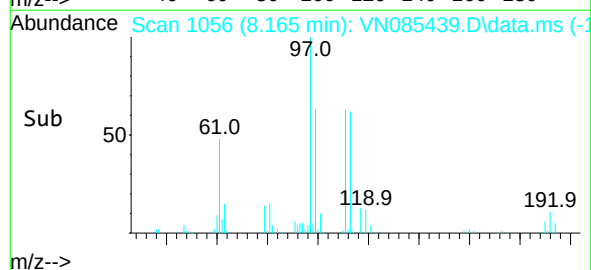
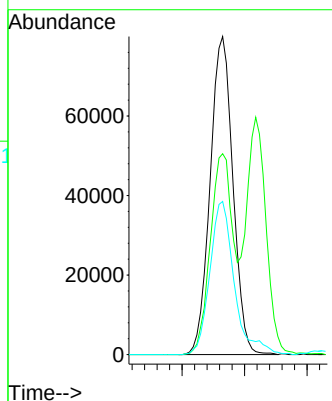
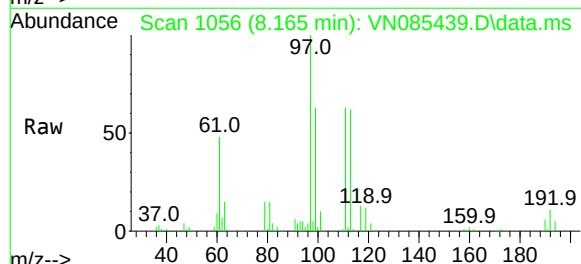
Tgt Ion: 97 Resp: 202590

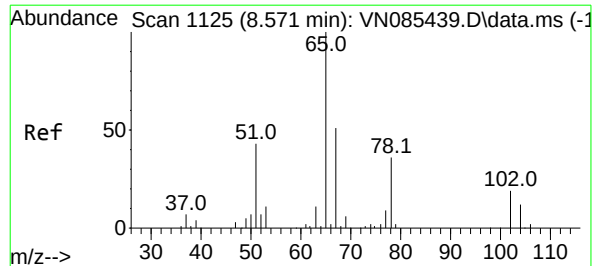
Ion Ratio Lower Upper

97 100

99 62.2 49.8 74.6

61 51.8 41.4 62.2





#33

1,2-Dichloroethane-d4

Concen: 51.500 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 165768

Ion Ratio Lower Upper

65 100

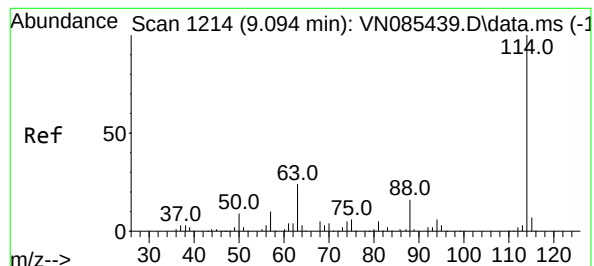
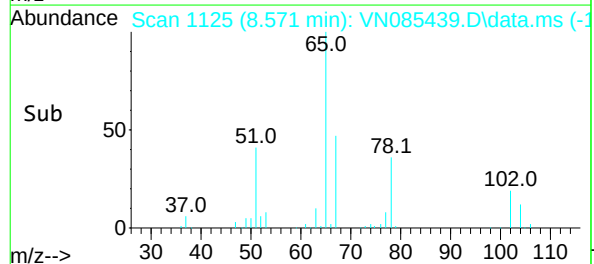
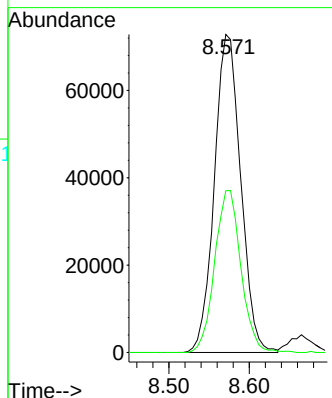
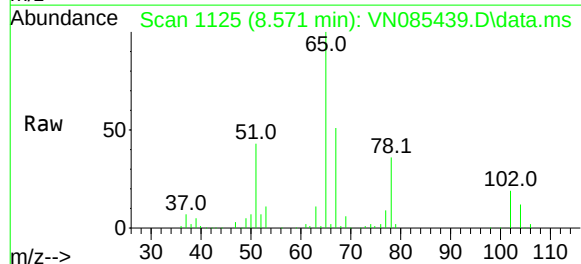
67 50.8 0.0 101.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

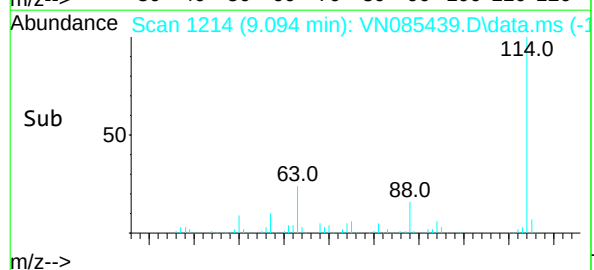
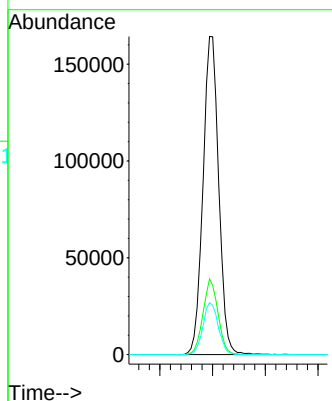
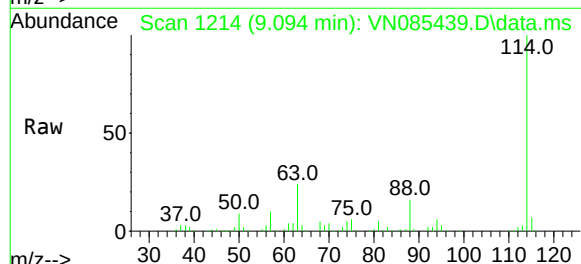
Tgt Ion:114 Resp: 339872

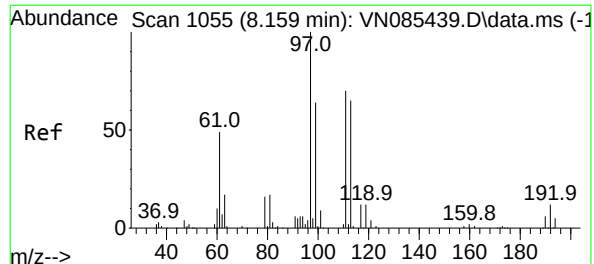
Ion Ratio Lower Upper

114 100

63 23.8 0.0 47.6

88 16.3 0.0 32.6





#35

Dibromofluoromethane

Concen: 51.552 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 113 Resp: 121554

Ion Ratio Lower Upper

113 100

111 103.4 82.7 124.1

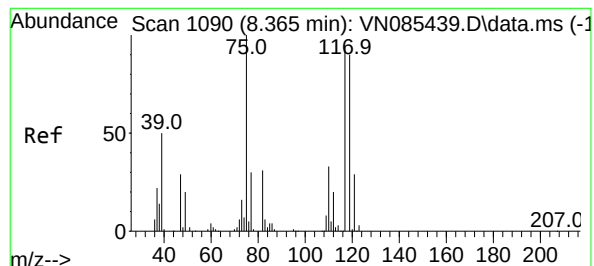
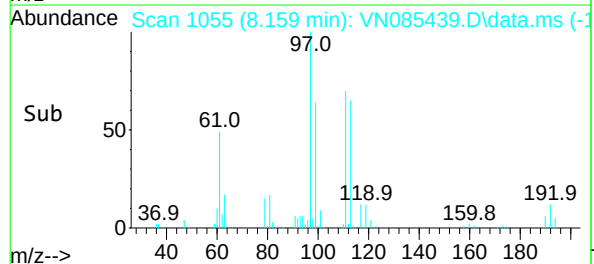
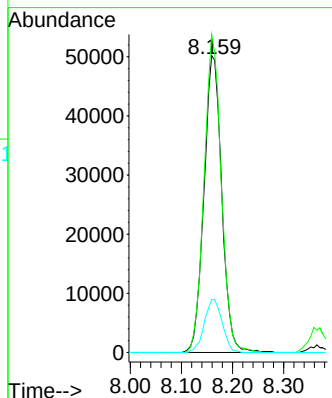
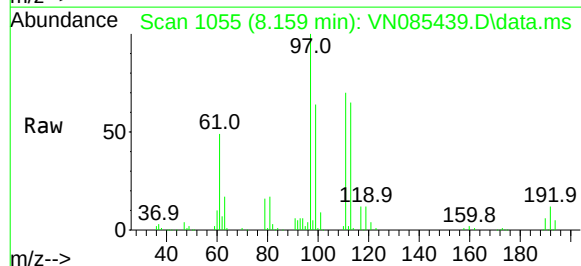
192 17.9 14.3 21.5

Manual Integrations

APPROVED

Reviewed By : John Carlone 01/15/2025

Supervised By : Mahesh Dadoda 01/15/2025



#36

1,1-Dichloropropene

Concen: 47.453 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

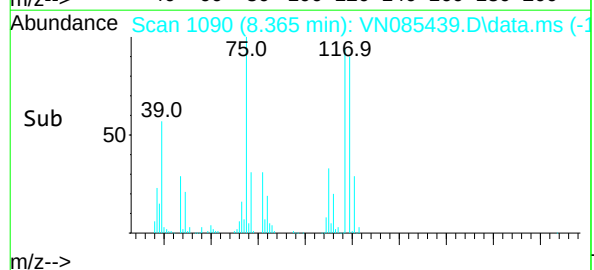
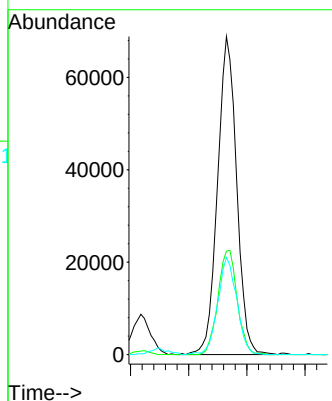
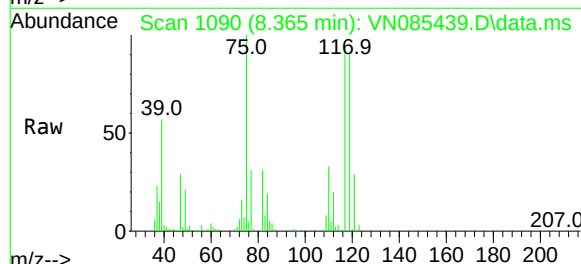
Tgt Ion: 75 Resp: 157031

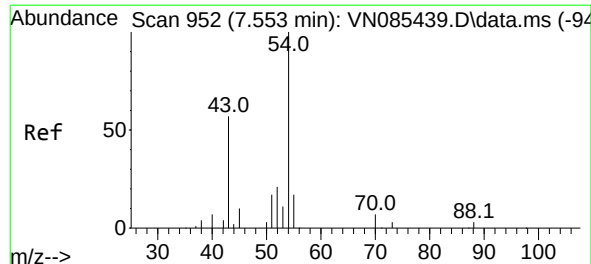
Ion Ratio Lower Upper

75 100

110 33.0 16.5 49.5

77 30.5 24.4 36.6





#37

Ethyl Acetate

Concen: 49.658 ug/l

RT: 7.553 min Scan# 952

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 165866

Ion Ratio Lower Upper

43 100

61 13.6 10.9 16.3

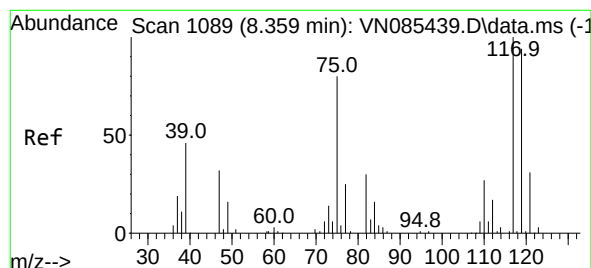
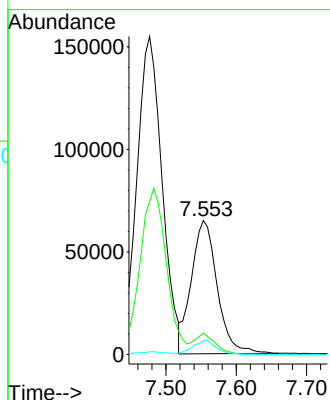
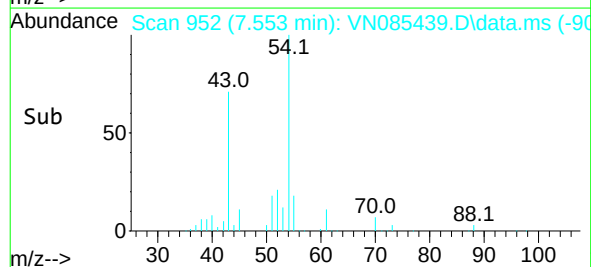
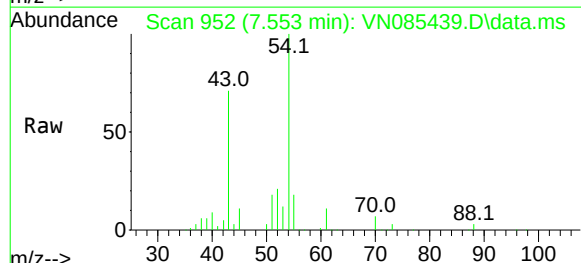
70 9.4 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#38

Carbon Tetrachloride

Concen: 47.564 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

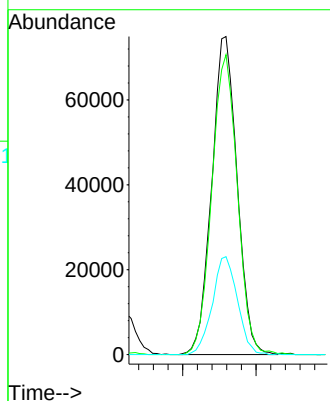
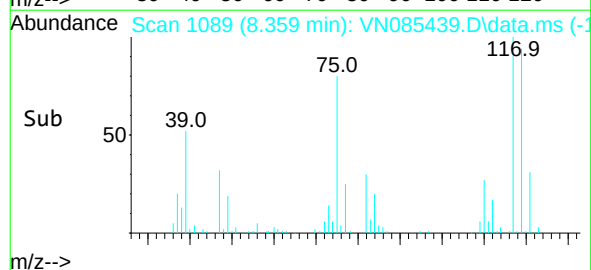
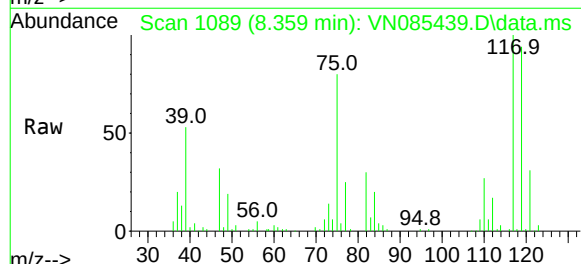
Tgt Ion:117 Resp: 180199

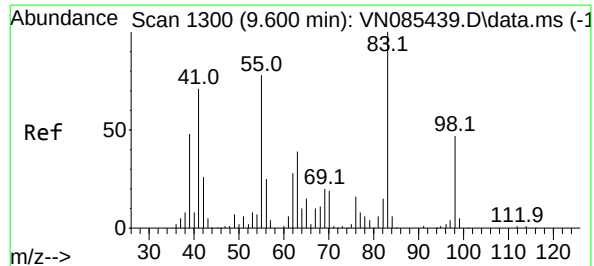
Ion Ratio Lower Upper

117 100

119 94.3 75.4 113.2

121 30.8 24.6 37.0





#39

Methylcyclohexane

Concen: 50.562 ug/l

RT: 9.600 min Scan# 13

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

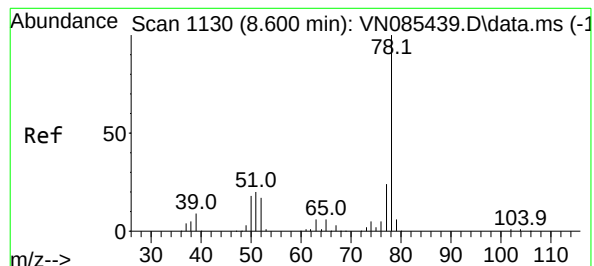
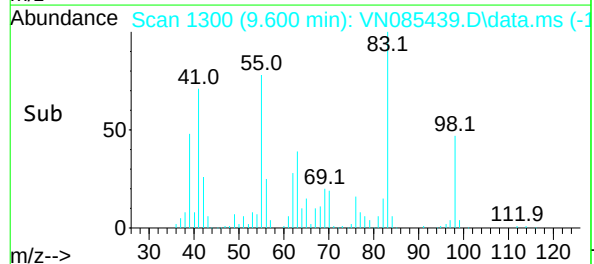
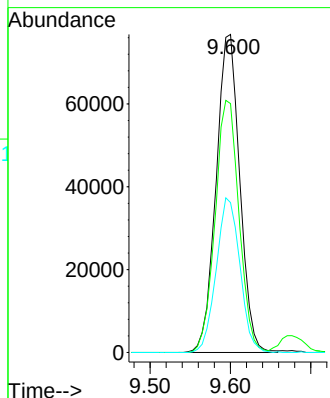
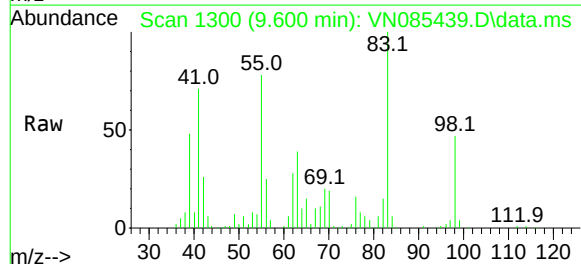
ClientSampleId :

VSTDICCC050

Tgt Ion:	83	Resp:	157234
Ion	Ratio	Lower	Upper
83	100		
55	78.3	62.6	94.0
98	47.1	37.7	56.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#40

Benzene

Concen: 49.542 ug/l

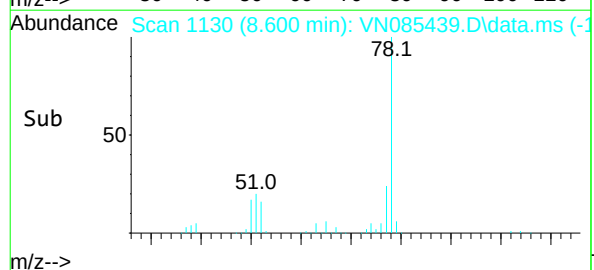
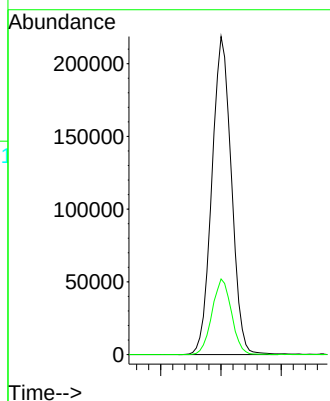
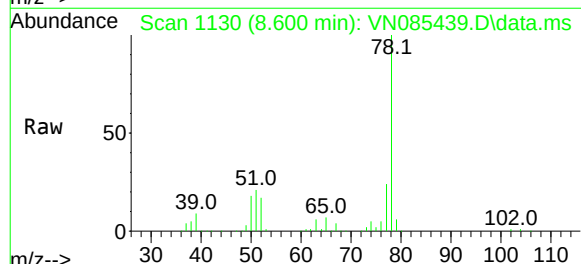
RT: 8.600 min Scan# 1130

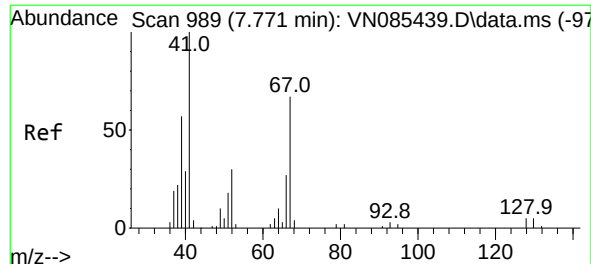
Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	78	Resp:	492606
Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.6





#41

Methacrylonitrile

Concen: 52.775 ug/l

RT: 7.771 min Scan# 989

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

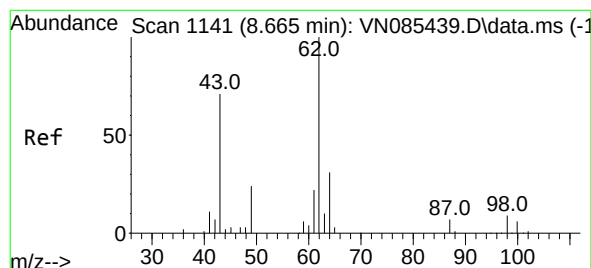
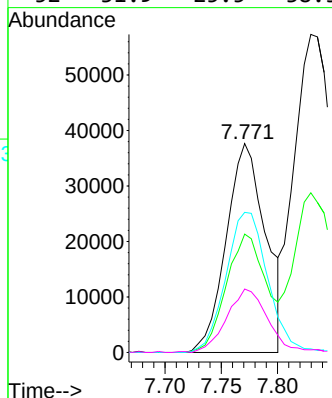
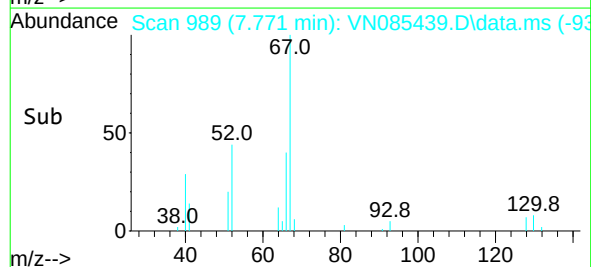
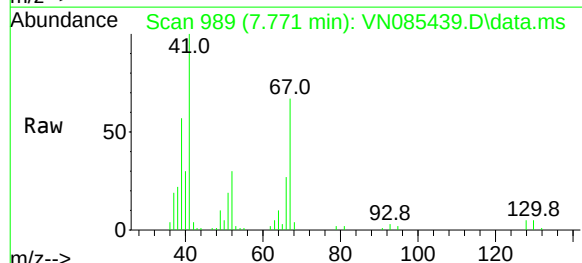
VSTDICCC050

Tgt Ion:	41	Resp:	91711
Ion	Ratio	Lower	Upper
41	100		
39	57.5	46.0	69.0
67	71.8	57.4	86.2
52	31.9	25.5	38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#42

1,2-Dichloroethane

Concen: 49.685 ug/l

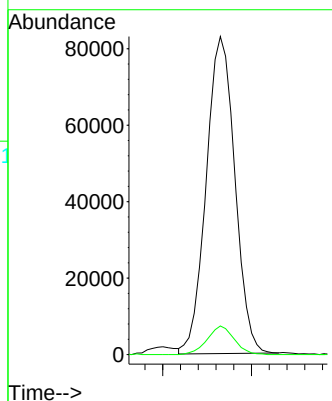
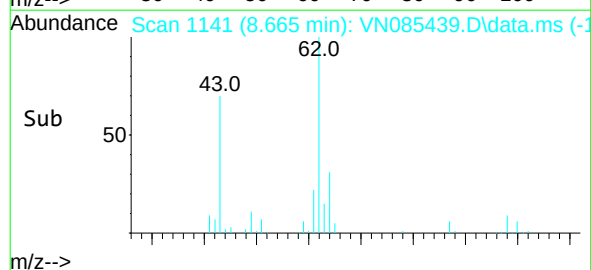
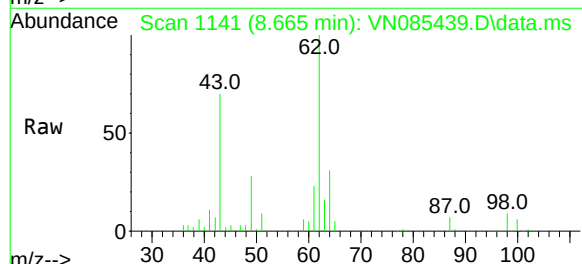
RT: 8.665 min Scan# 1141

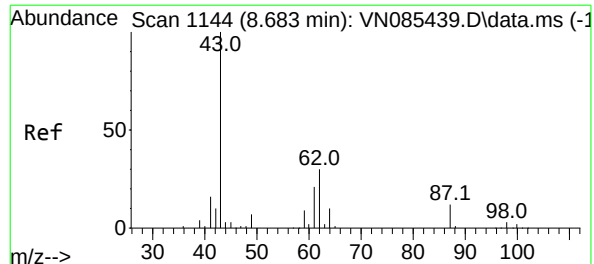
Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	62	Resp:	186065
Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	17.0





#43

Isopropyl Acetate

Concen: 51.611 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 276228

Ion Ratio Lower Upper

43 100

61 25.9 20.7 31.1

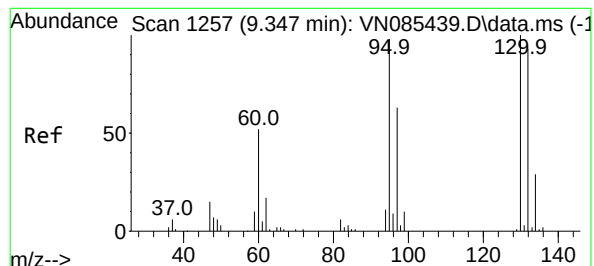
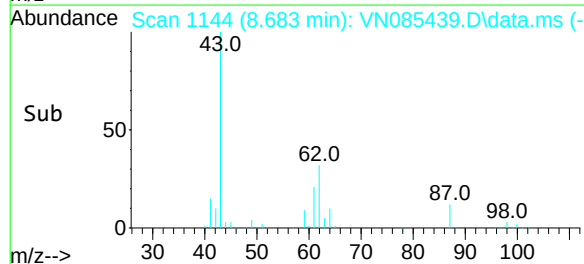
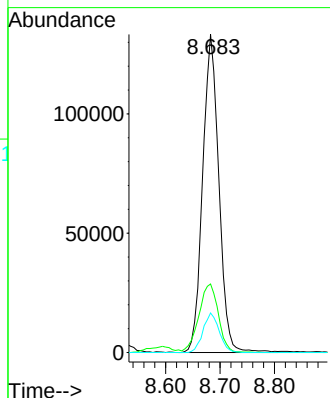
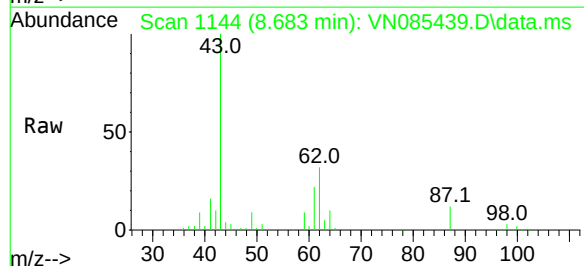
87 12.3 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#44

Trichloroethene

Concen: 47.506 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN085439.D

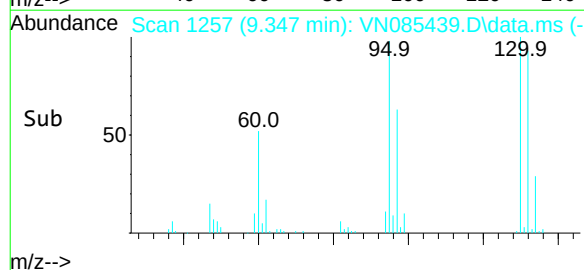
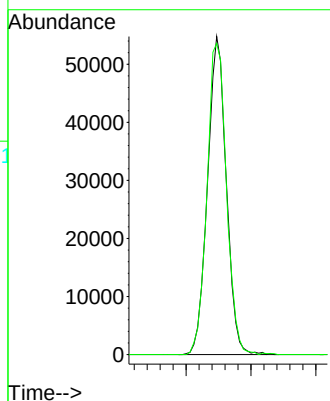
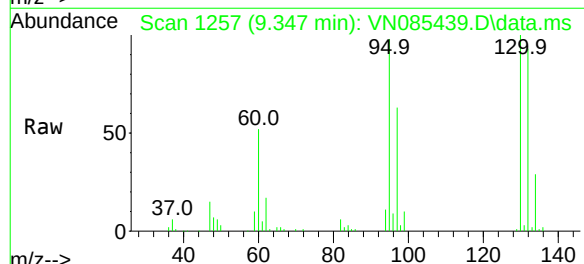
Acq: 14 Jan 2025 15:19

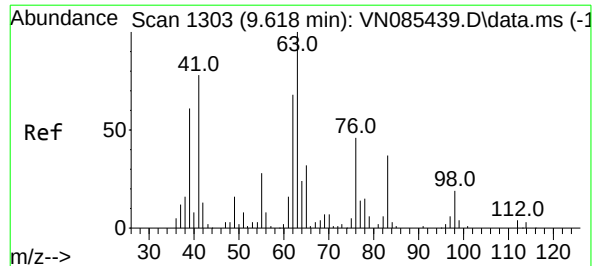
Tgt Ion:130 Resp: 109953

Ion Ratio Lower Upper

130 100

95 97.9 0.0 195.8





#45

1,2-Dichloropropane

Concen: 49.644 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 126084

Ion Ratio Lower Upper

63 100

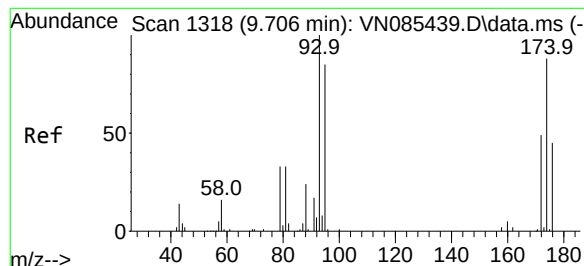
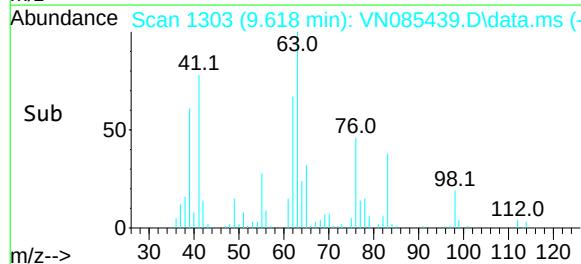
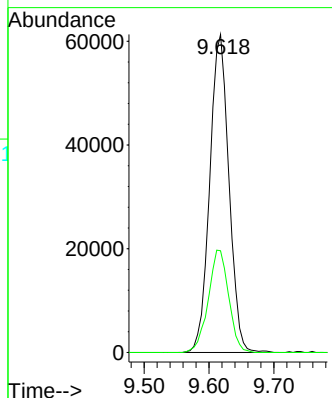
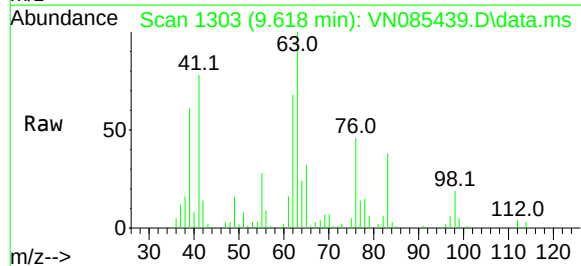
65 32.0 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#46

Dibromomethane

Concen: 49.476 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

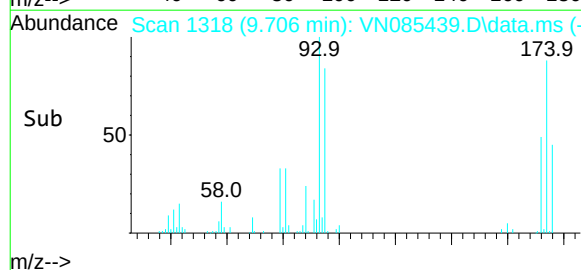
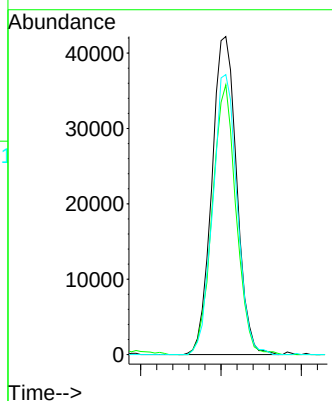
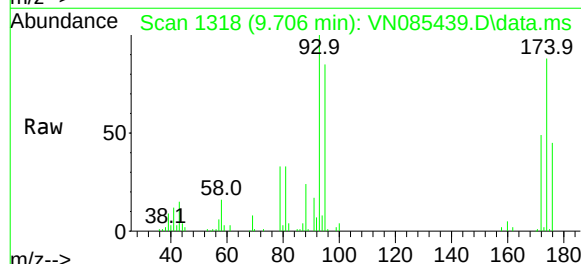
Tgt Ion: 93 Resp: 90670

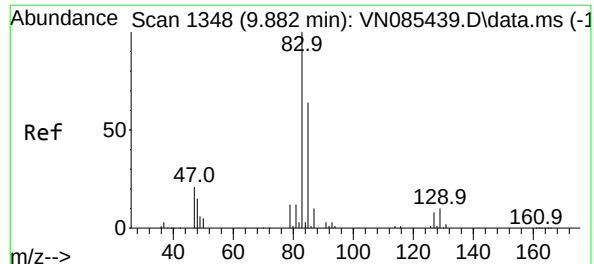
Ion Ratio Lower Upper

93 100

95 80.9 64.7 97.1

174 86.2 69.0 103.4





#47

Bromodichloromethane

Concen: 50.867 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

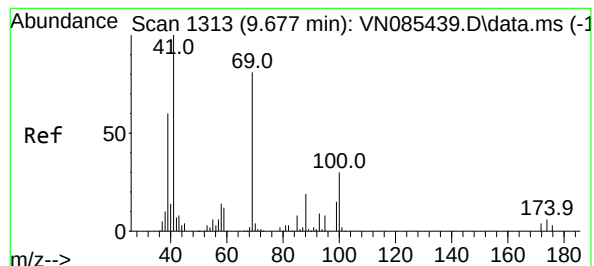
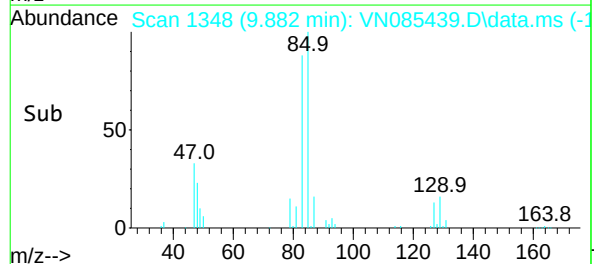
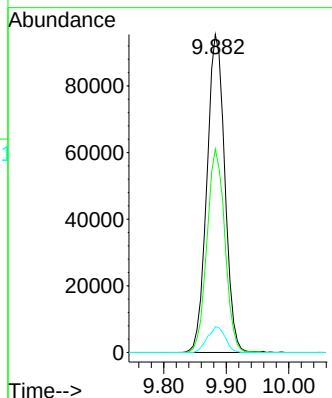
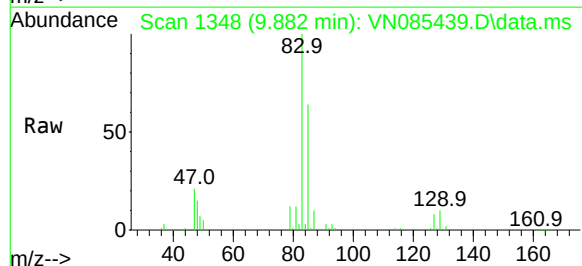
Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:	83	Resp:	189915
Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.2	76.8
127	8.1	6.5	9.7

Manual Integrations
APPROVEDReviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

#48

Methyl methacrylate

Concen: 55.385 ug/l

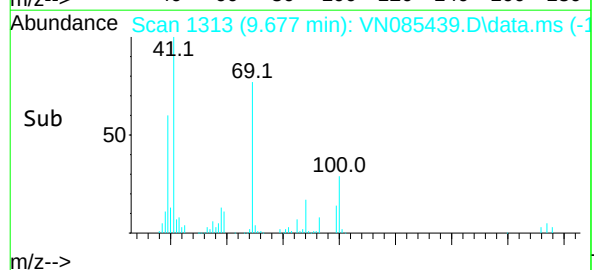
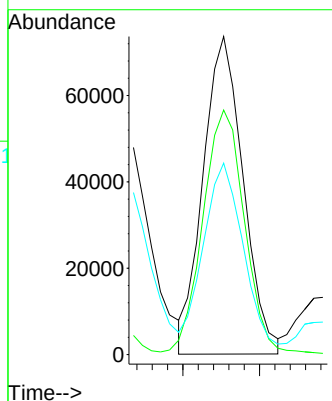
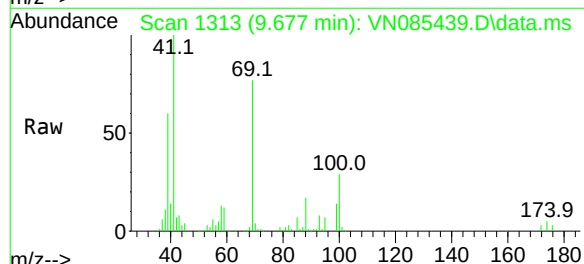
RT: 9.677 min Scan# 1313

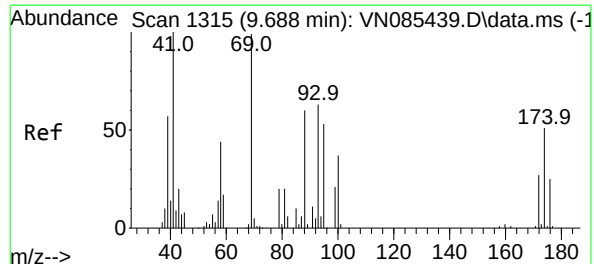
Delta R.T. -0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	41	Resp:	133399
Ion	Ratio	Lower	Upper
41	100		
69	80.9	64.7	97.1
39	61.3	49.0	73.6





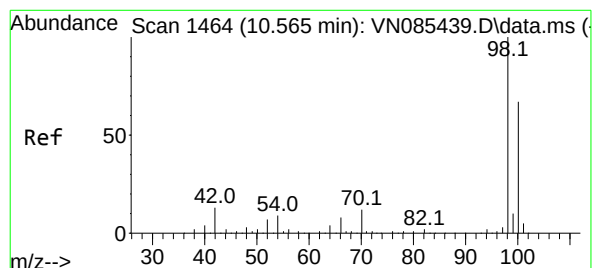
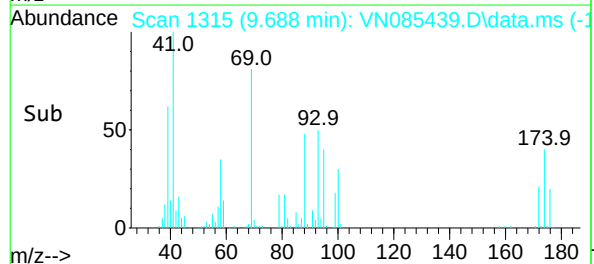
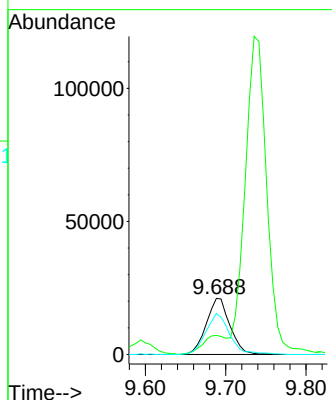
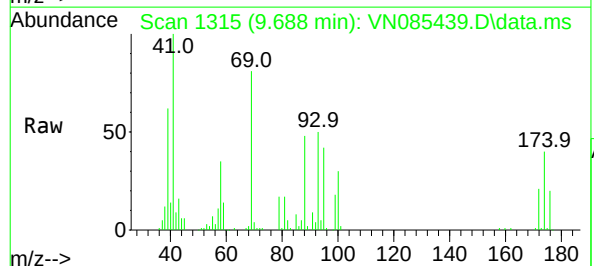
#49
1,4-Dioxane
Concen: 1061.334 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 88 Resp: 43048
Ion Ratio Lower Upper
88 100
43 33.2 26.6 39.8
58 74.4 59.5 89.3

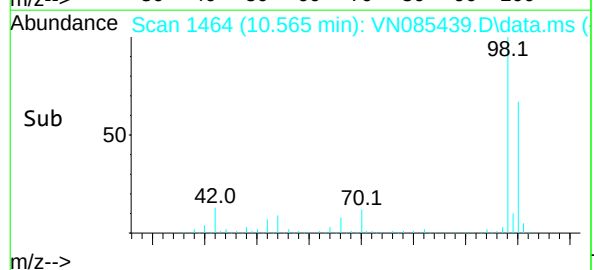
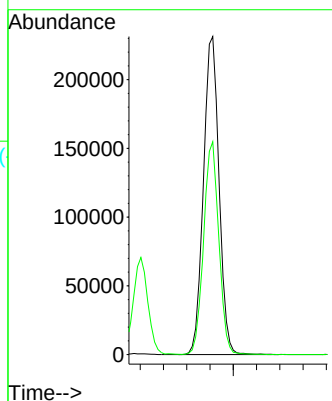
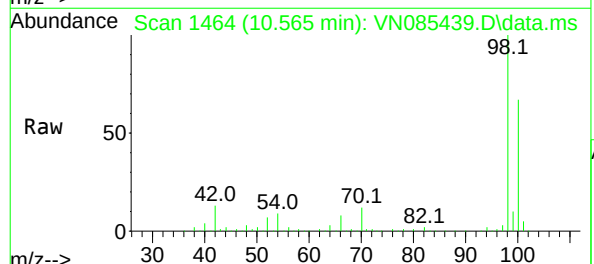
Manual Integrations
APPROVED

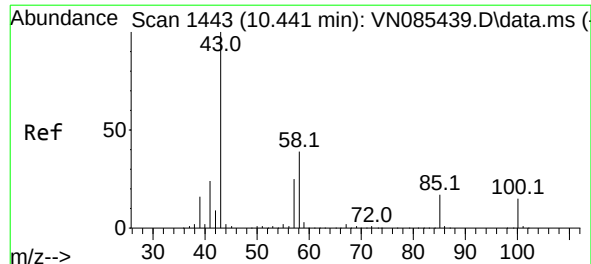
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#50
Toluene-d8
Concen: 51.411 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 98 Resp: 430698
Ion Ratio Lower Upper
98 100
100 65.3 52.2 78.4





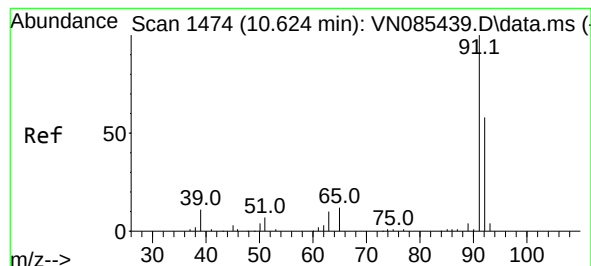
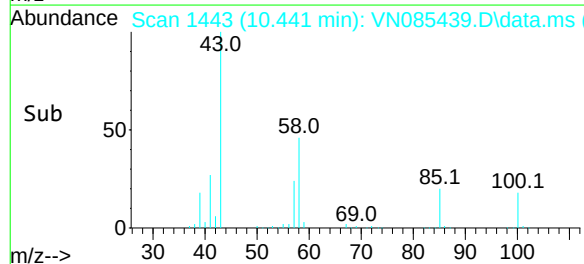
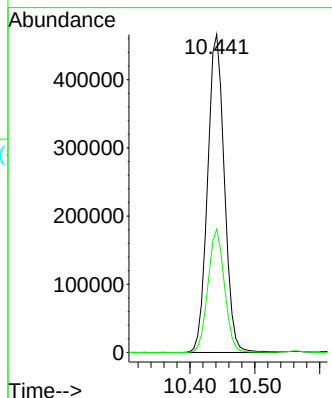
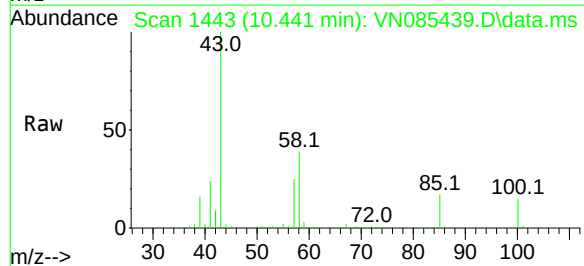
#51
4-Methyl-2-Pentanone
Concen: 269.403 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 836707
Ion Ratio Lower Upper
43 100
58 38.1 30.5 45.7

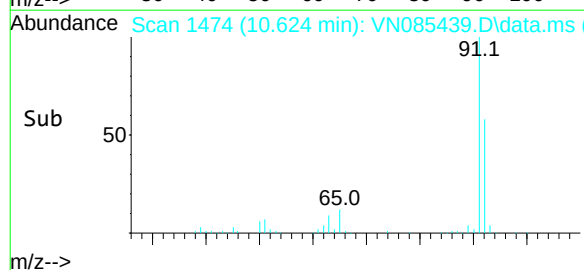
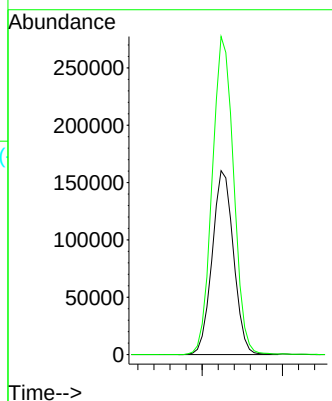
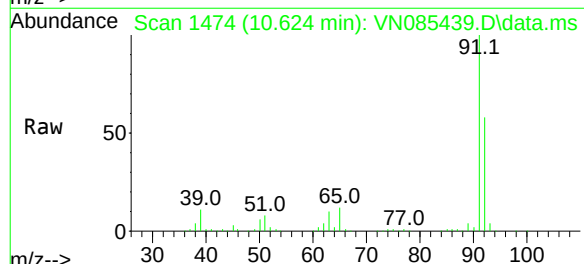
Manual Integrations
APPROVED

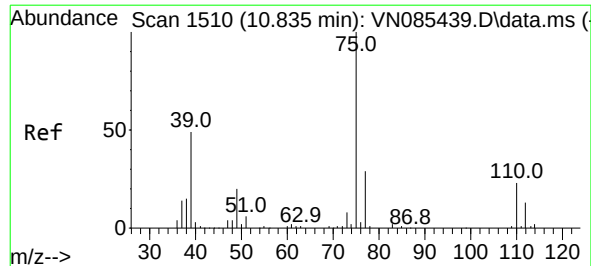
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#52
Toluene
Concen: 51.341 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 92 Resp: 295792
Ion Ratio Lower Upper
92 100
91 174.0 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 53.125 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 75 Resp: 187439

Ion Ratio Lower Upper

75 100

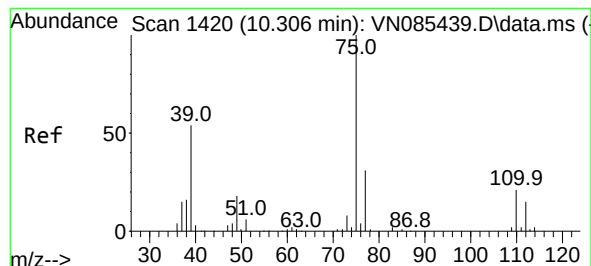
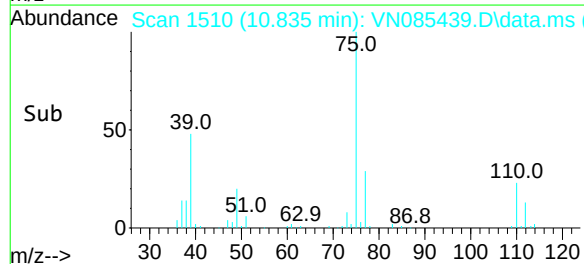
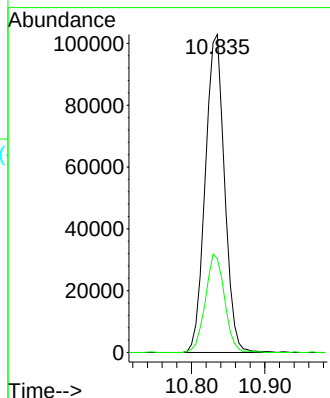
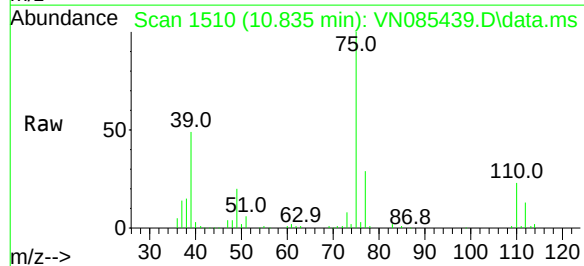
77 29.4 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#54

cis-1,3-Dichloropropene

Concen: 53.006 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. -0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

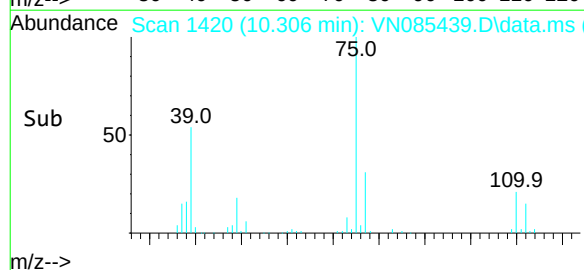
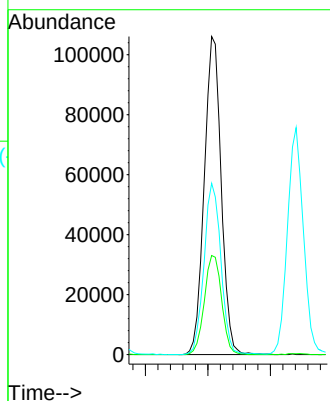
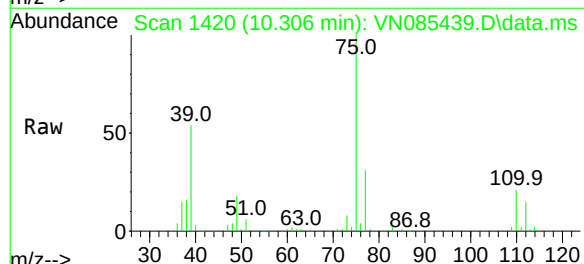
Tgt Ion: 75 Resp: 199771

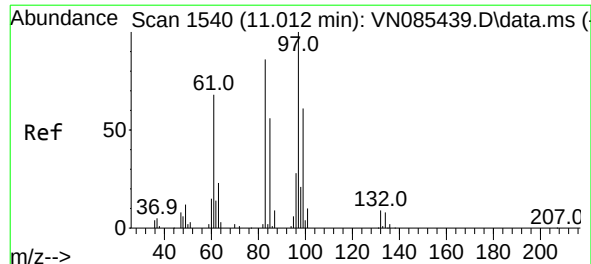
Ion Ratio Lower Upper

75 100

77 31.2 25.0 37.4

39 53.9 43.1 64.7





#55

1,1,2-Trichloroethane

Concen: 50.641 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 97 Resp: 115462

Ion Ratio Lower Upper

97 100

83 86.3 69.0 103.6

85 55.7 44.6 66.8

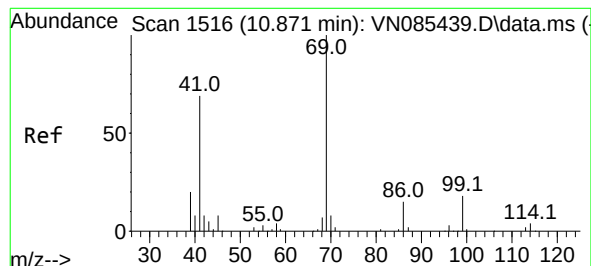
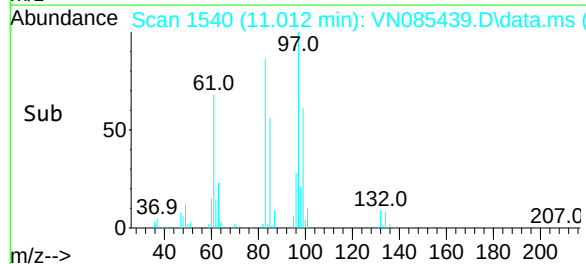
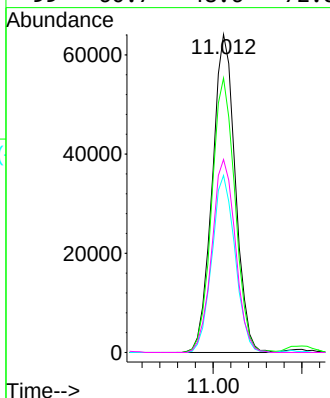
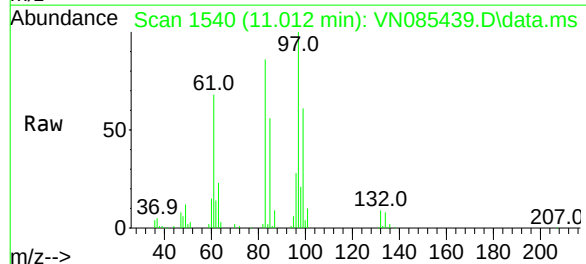
99 60.7 48.6 72.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#56

Ethyl methacrylate

Concen: 48.182 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

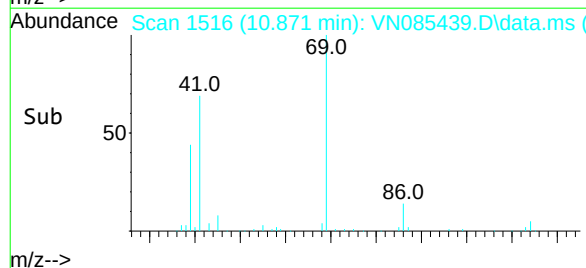
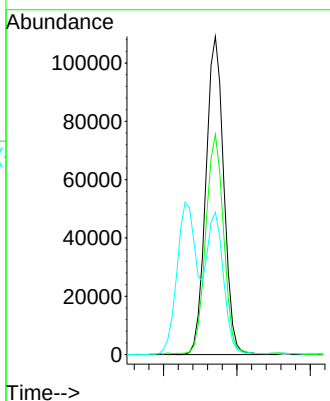
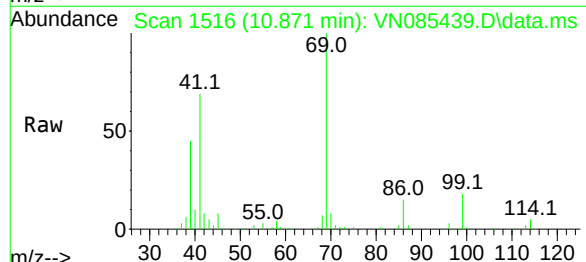
Tgt Ion: 69 Resp: 184775

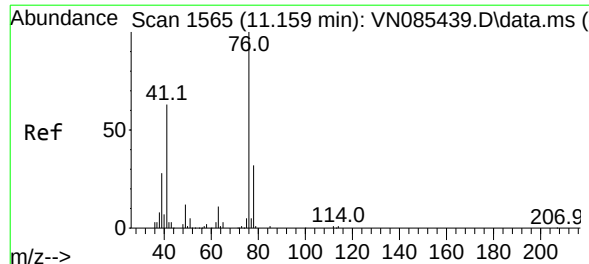
Ion Ratio Lower Upper

69 100

41 68.3 54.6 82.0

39 40.5 32.4 48.6





#57

1,3-Dichloropropane

Concen: 51.606 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 204596

Ion Ratio Lower Upper

76 100

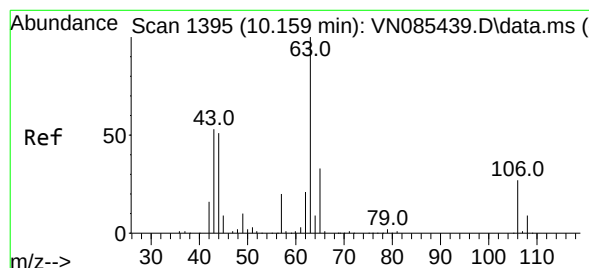
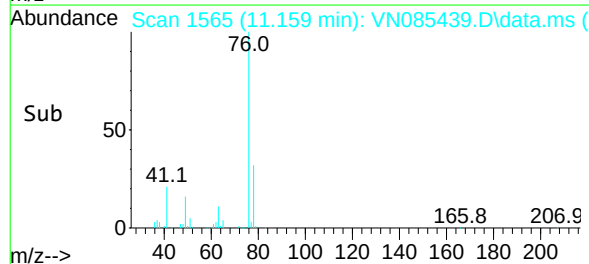
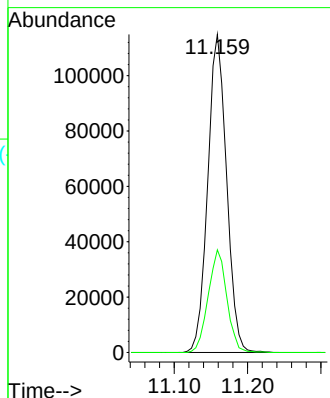
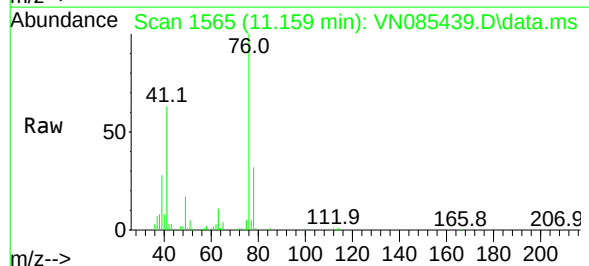
78 32.0 25.6 38.4

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#58

2-Chloroethyl Vinyl ether

Concen: 283.088 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN085439.D

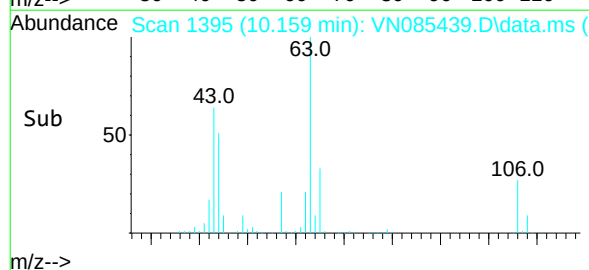
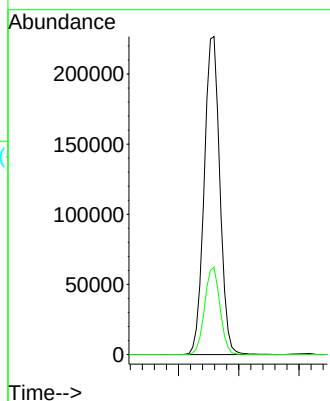
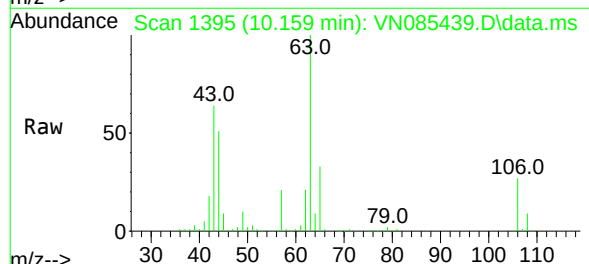
Acq: 14 Jan 2025 15:19

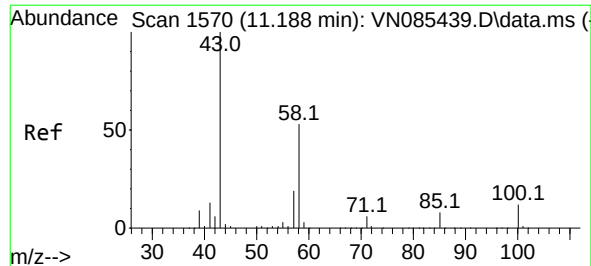
Tgt Ion: 63 Resp: 409594

Ion Ratio Lower Upper

63 100

106 27.0 21.6 32.4





#59

2-Hexanone

Concen: 277.643 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 606740

Ion Ratio Lower Upper

43 100

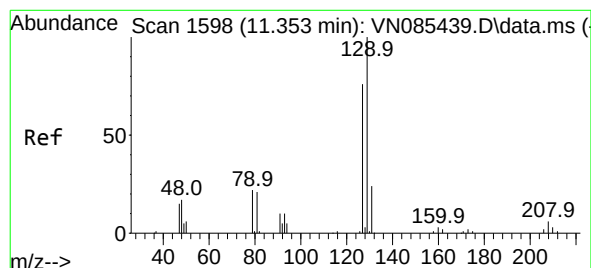
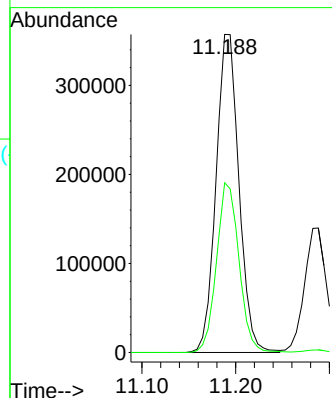
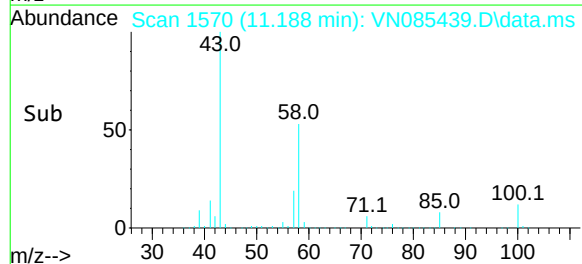
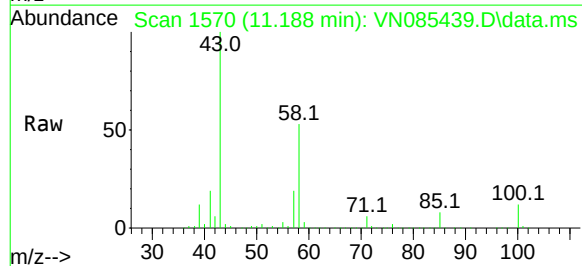
58 52.4 26.2 78.6

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#60

Dibromochloromethane

Concen: 51.116 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. 0.000 min

Lab File: VN085439.D

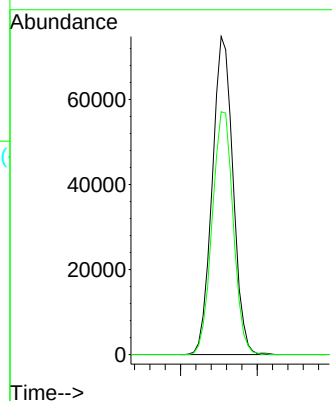
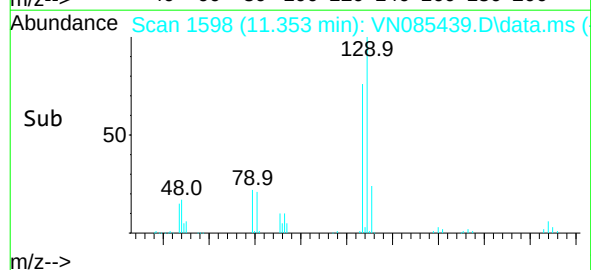
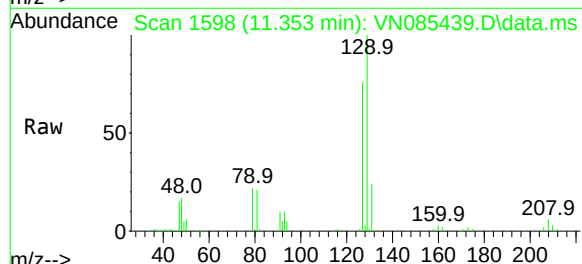
Acq: 14 Jan 2025 15:19

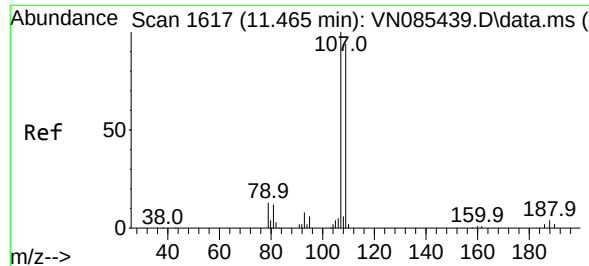
Tgt Ion:129 Resp: 140704

Ion Ratio Lower Upper

129 100

127 77.2 38.6 115.8





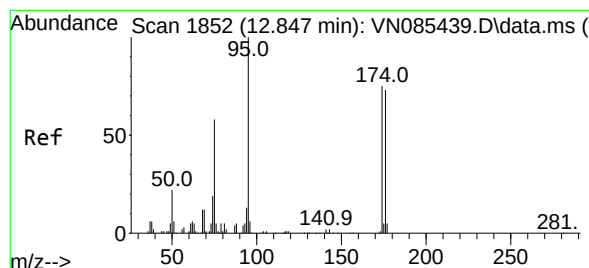
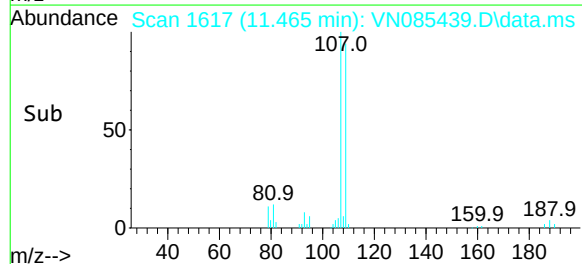
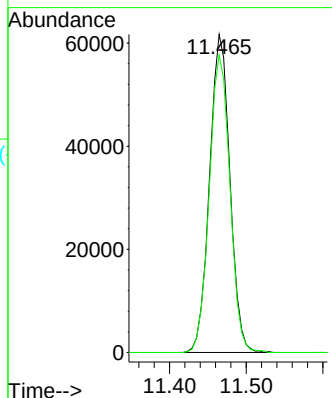
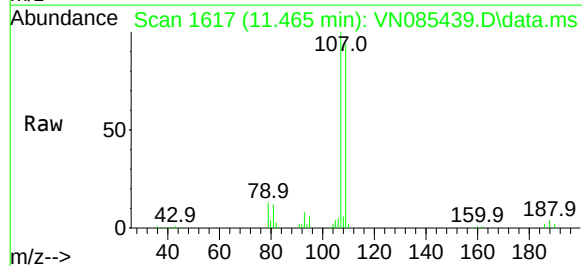
#61
1,2-Dibromoethane
Concen: 50.028 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 107 Resp: 113541
Ion Ratio Lower Upper
107 100
109 94.9 75.9 113.9

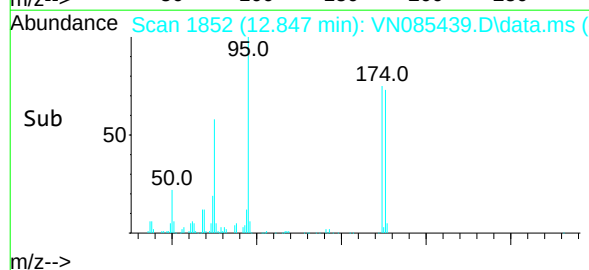
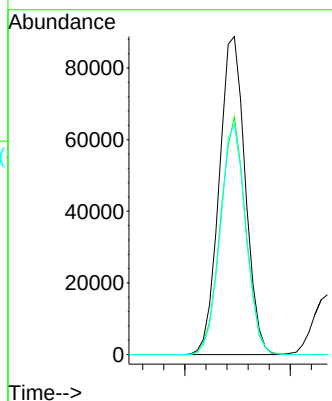
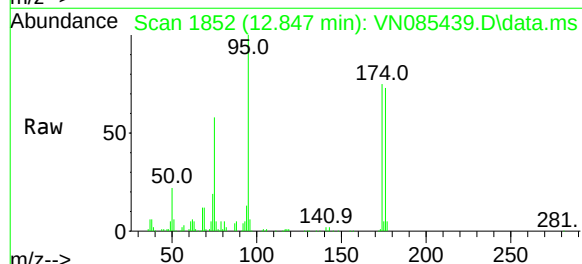
Manual Integrations
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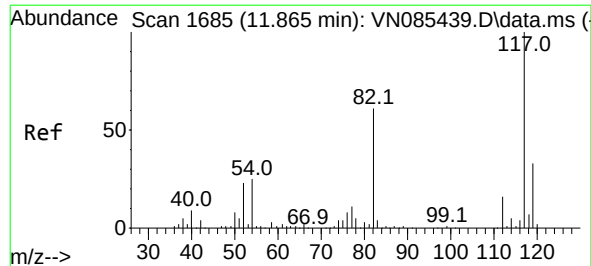
Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



#62
4-Bromofluorobenzene
Concen: 53.239 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 95 Resp: 152568
Ion Ratio Lower Upper
95 100
174 72.5 0.0 145.0
176 71.2 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:117 Resp: 297366

Ion Ratio Lower Upper

117 100

82 60.7 48.6 72.8

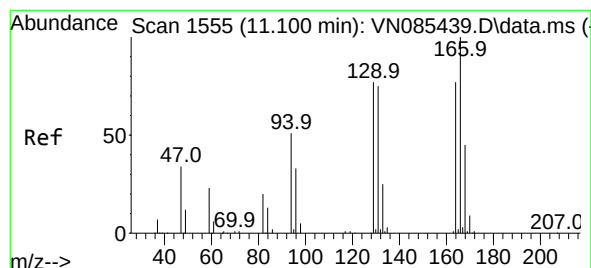
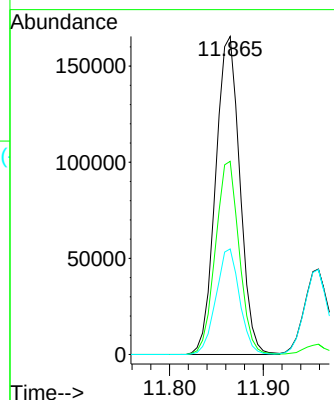
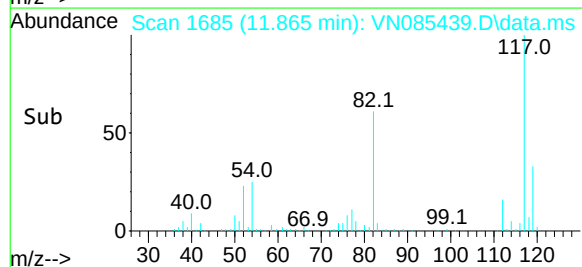
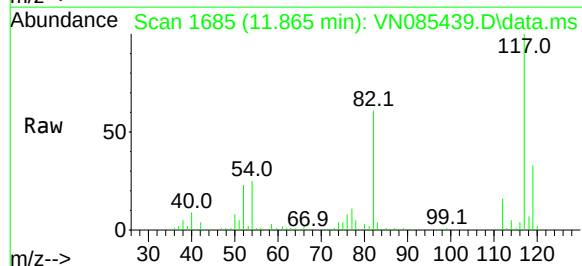
119 33.2 26.6 39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#64

Tetrachloroethene

Concen: 47.295 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:164 Resp: 95879

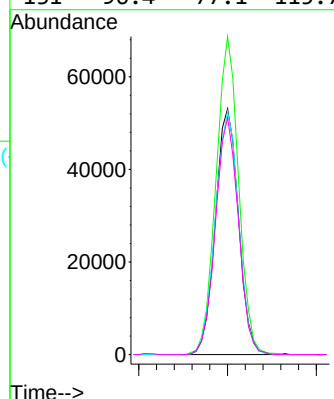
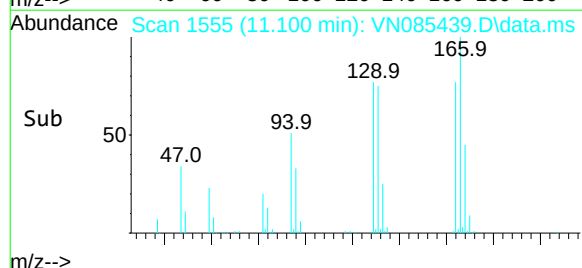
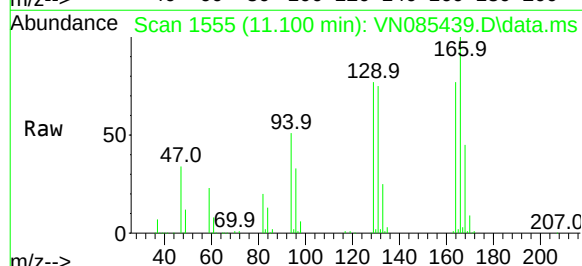
Ion Ratio Lower Upper

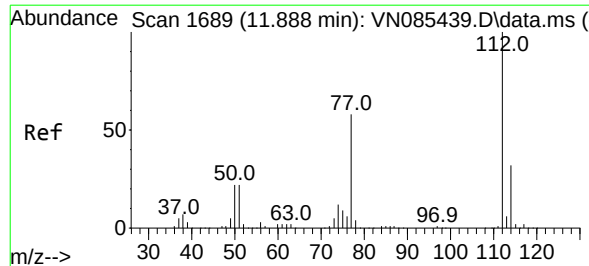
164 100

166 129.3 103.4 155.2

129 99.0 79.2 118.8

131 96.4 77.1 115.7





#65

Chlorobenzene

Concen: 49.121 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:112 Resp: 319992

Ion Ratio Lower Upper

112 100

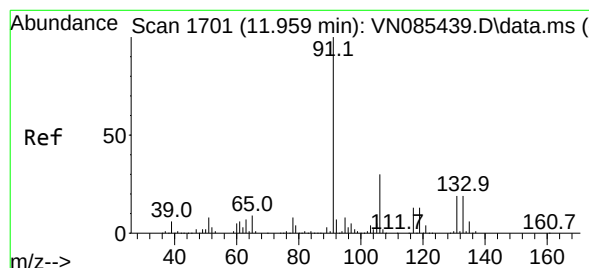
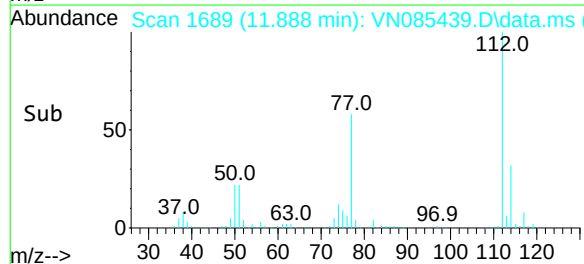
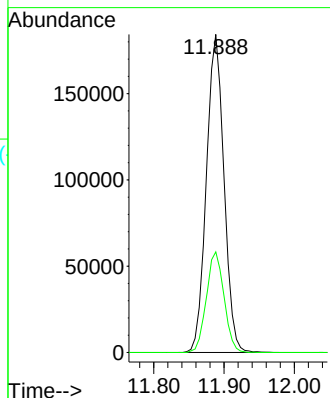
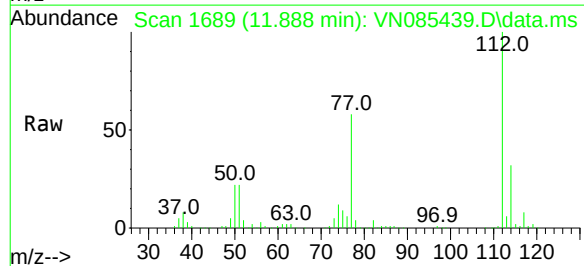
114 31.6 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 48.722 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

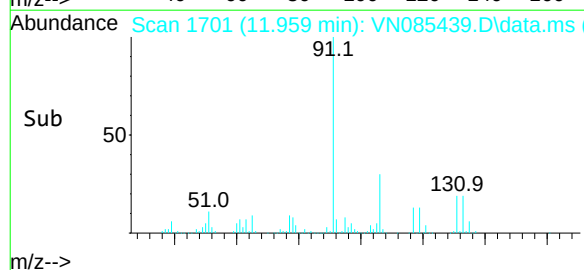
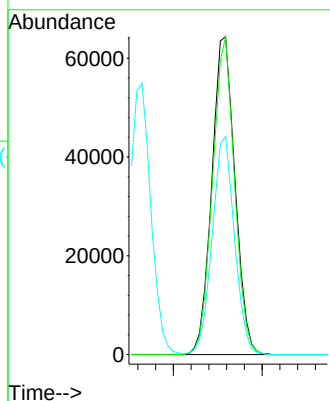
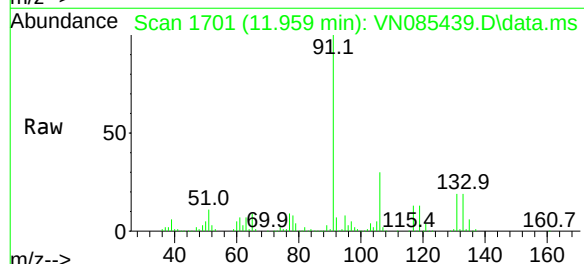
Tgt Ion:131 Resp: 116488

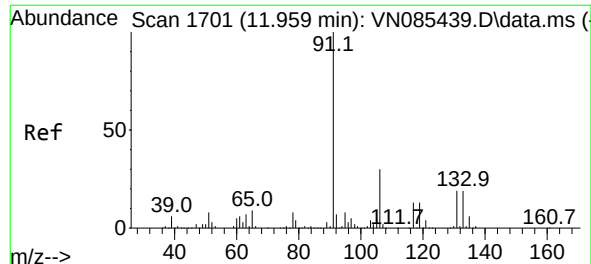
Ion Ratio Lower Upper

131 100

133 94.9 47.4 142.3

119 66.3 33.1 99.5





#67

Ethyl Benzene

Concen: 52.339 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 555322

Ion Ratio Lower Upper

91 100

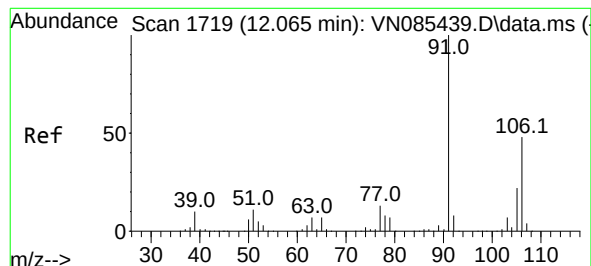
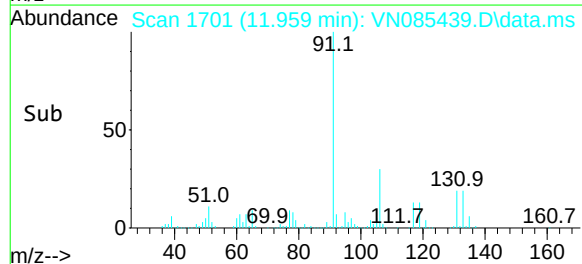
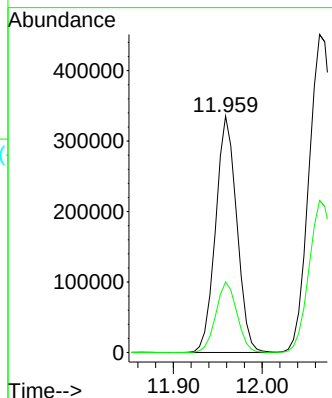
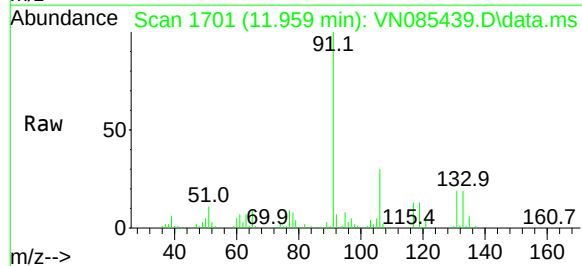
106 29.8 23.8 35.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#68

m/p-Xylenes

Concen: 107.286 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. 0.000 min

Lab File: VN085439.D

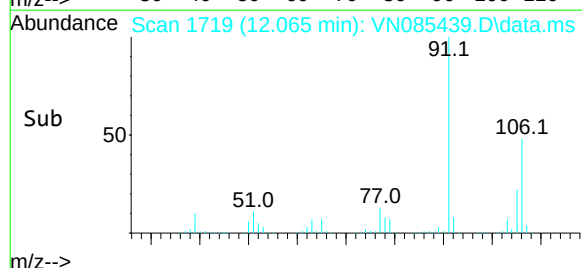
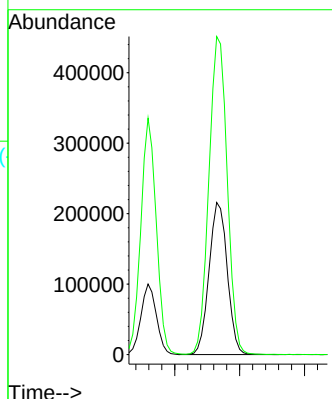
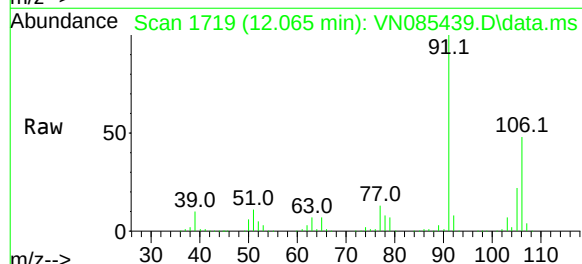
Acq: 14 Jan 2025 15:19

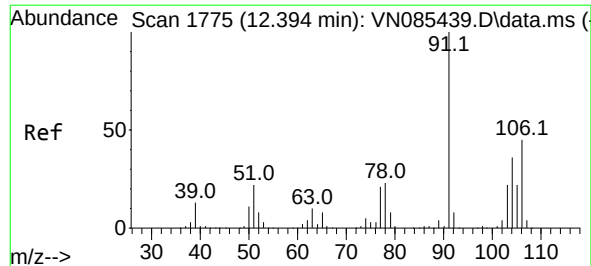
Tgt Ion:106 Resp: 420702

Ion Ratio Lower Upper

106 100

91 209.6 167.7 251.5





#69

o-Xylene

Concen: 54.062 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:106 Resp: 202597

Ion Ratio Lower Upper

106 100

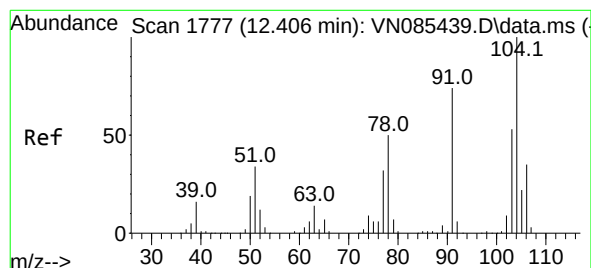
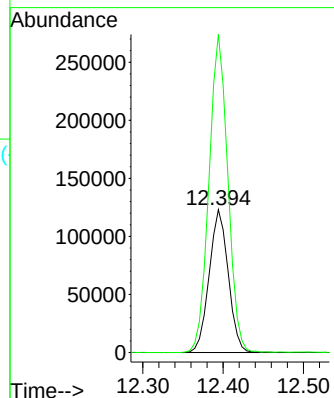
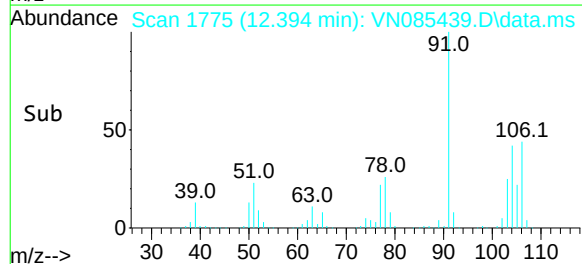
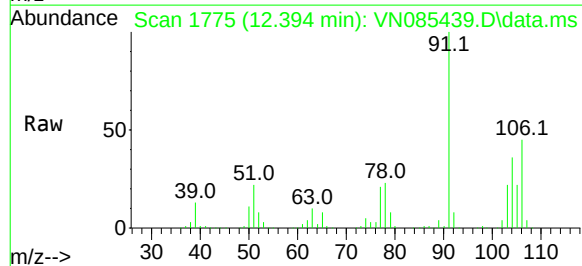
91 220.8 110.4 331.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#70

Styrene

Concen: 56.227 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

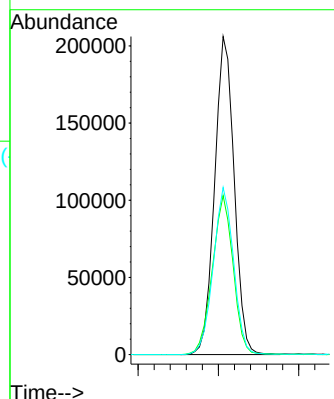
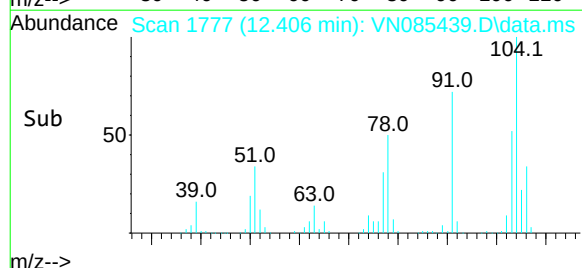
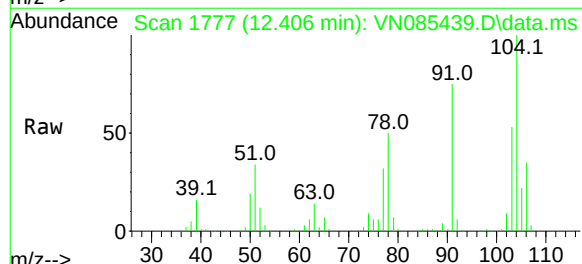
Tgt Ion:104 Resp: 348720

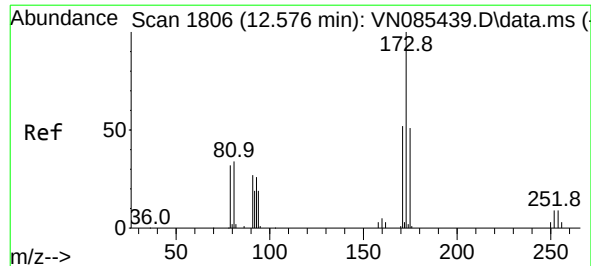
Ion Ratio Lower Upper

104 100

78 53.1 42.5 63.7

103 54.8 43.8 65.8





#71

Bromoform

Concen: 53.993 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

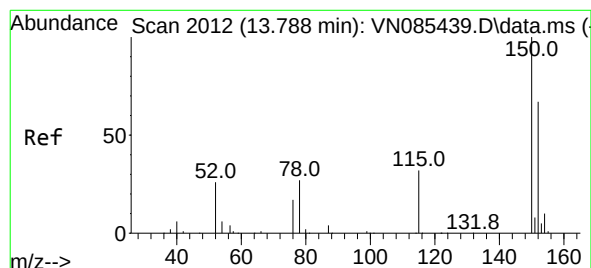
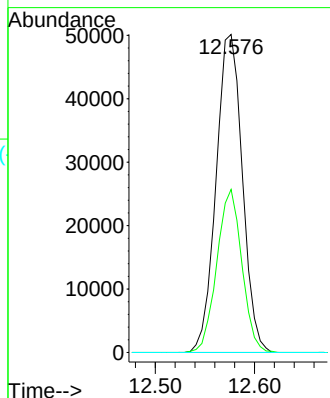
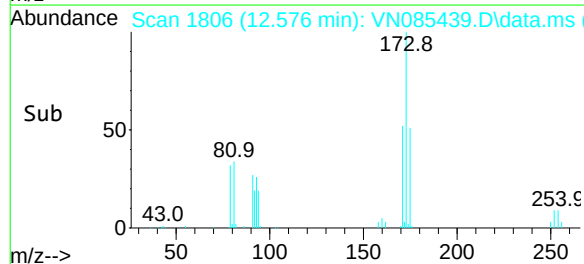
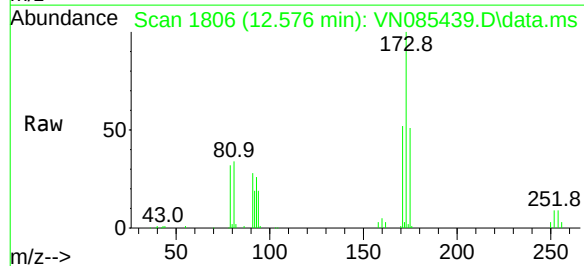
ClientSampleId :

VSTDICCC050

Tgt Ion:	173	Resp:	92366
Ion Ratio	Lower	Upper	
173	100		
175	48.8	24.4	73.2
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

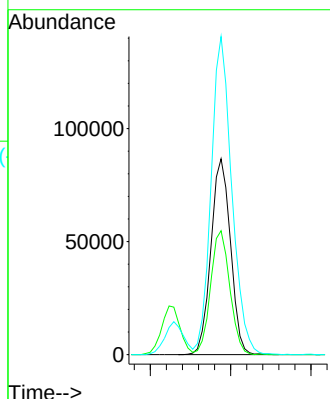
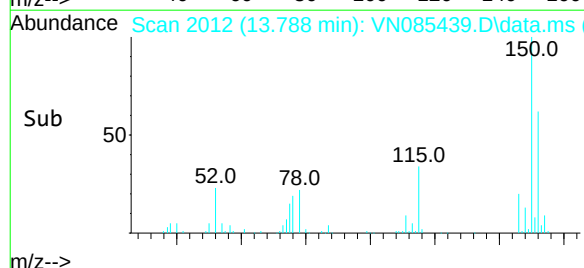
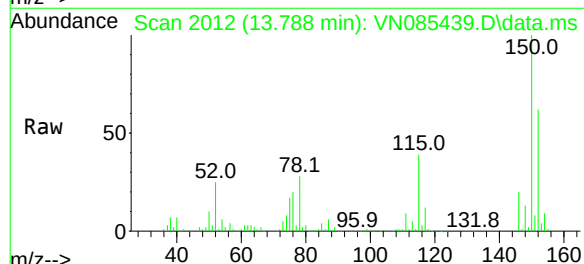
RT: 13.788 min Scan# 2012

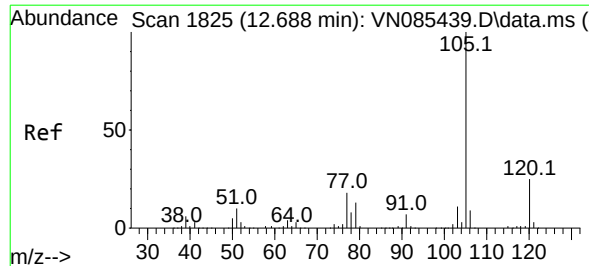
Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	152	Resp:	146624
Ion Ratio	Lower	Upper	
152	100		
115	62.2	31.1	93.3
150	171.8	0.0	343.6





#73

Isopropylbenzene

Concen: 51.094 ug/l

RT: 12.688 min Scan# 1825

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:105 Resp: 505619

Ion Ratio Lower Upper

105 100

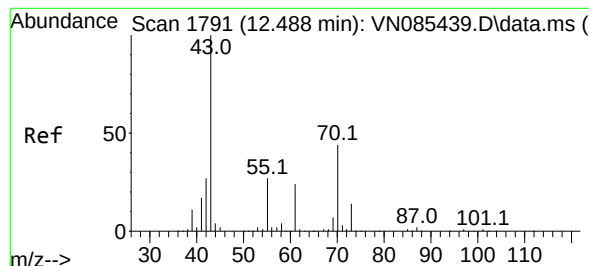
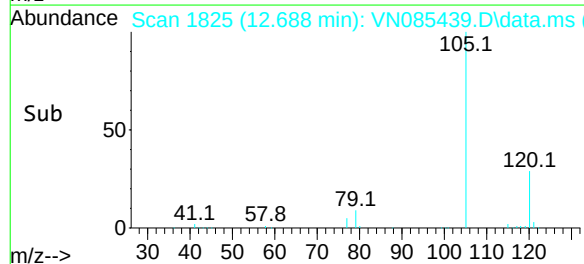
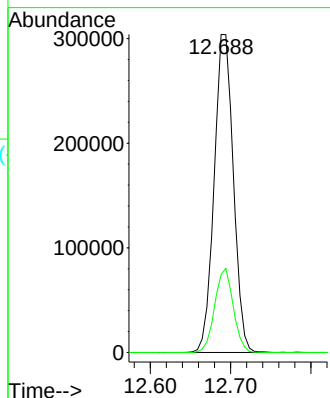
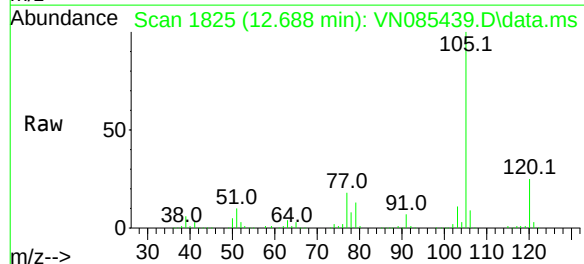
120 25.5 12.8 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#74

N-ethyl acetate

Concen: 53.478 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion: 43 Resp: 237870

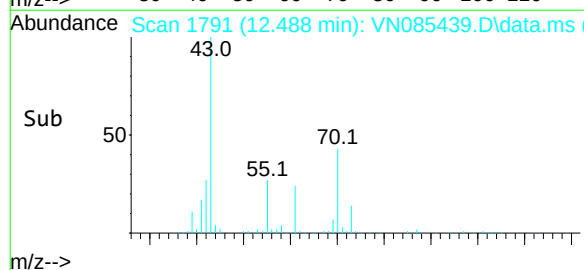
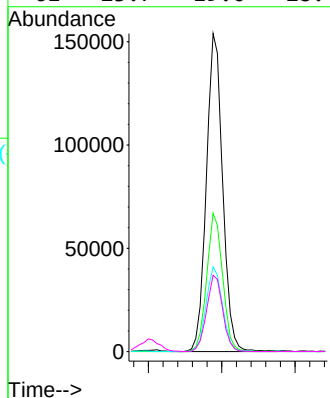
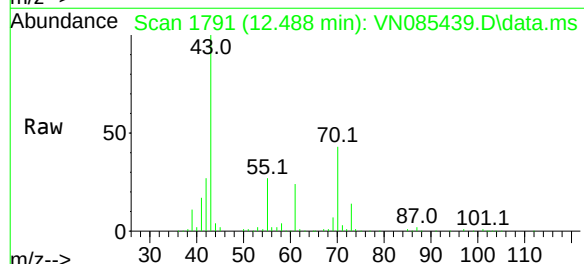
Ion Ratio Lower Upper

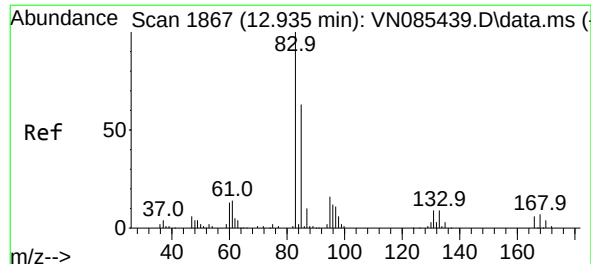
43 100

70 42.5 34.0 51.0

55 26.8 21.4 32.2

61 23.7 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 48.019 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

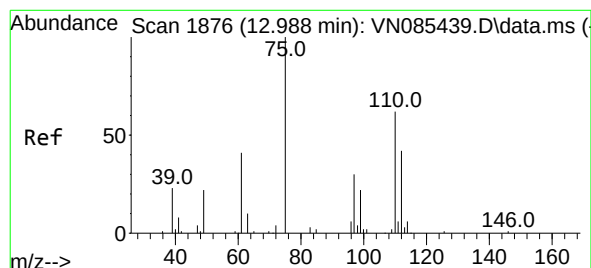
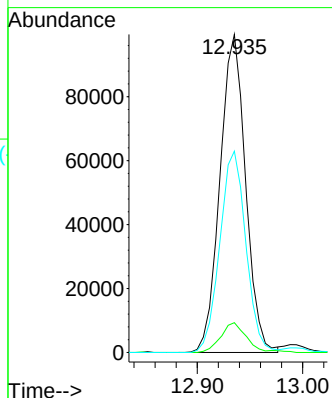
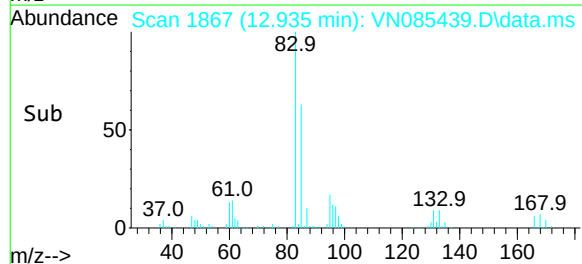
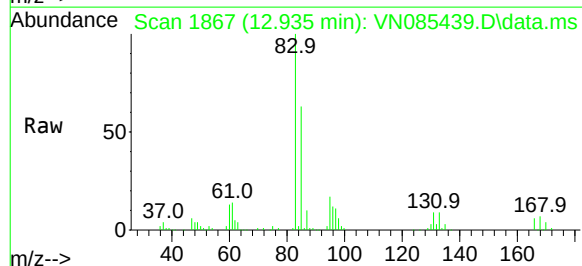
VSTDICCC050

Tgt Ion:	83	Resp:	167856
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	64.4	32.2	96.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#76

1,2,3-Trichloropropane

Concen: 43.982 ug/l m

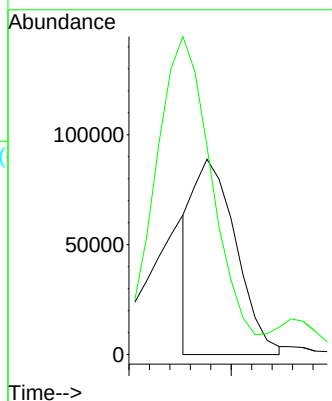
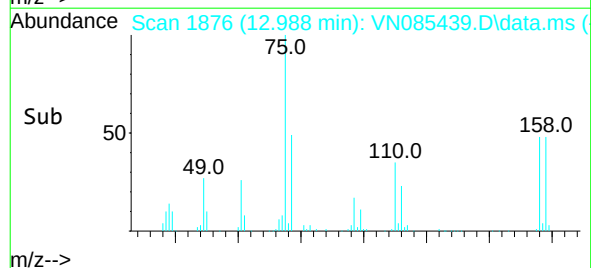
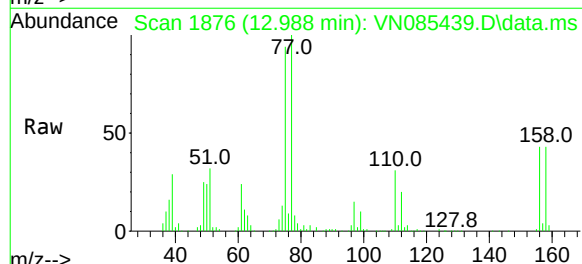
RT: 12.988 min Scan# 1876

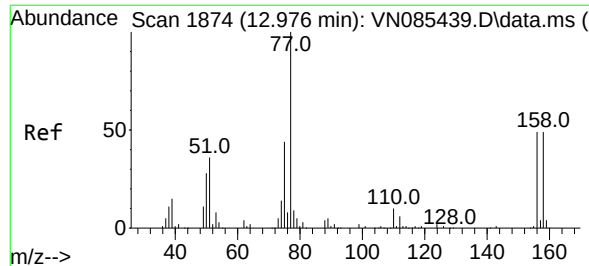
Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	75	Resp:	130866
Ion	Ratio	Lower	Upper
75	100		
77	219.5	109.7	329.2





#77

Bromobenzene

Concen: 48.657 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:156 Resp: 125800

Ion Ratio Lower Upper

156 100

77 228.3 114.1 342.4

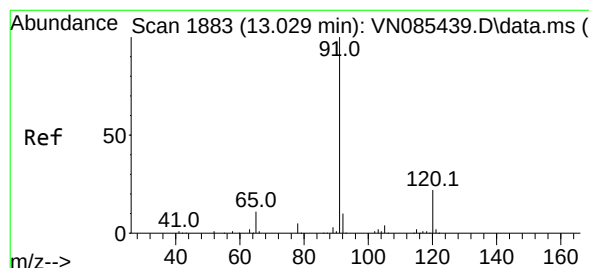
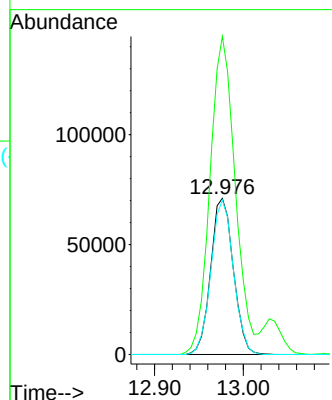
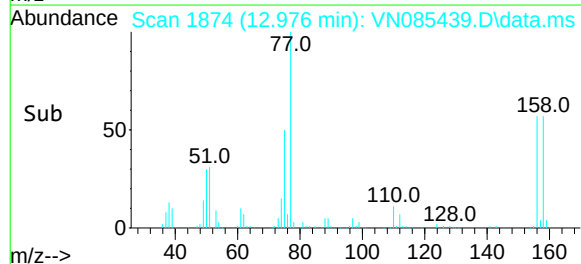
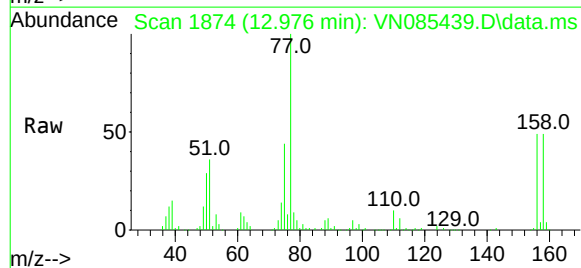
158 97.9 48.9 146.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#78

n-propylbenzene

Concen: 51.986 ug/l

RT: 13.029 min Scan# 1883

Delta R.T. 0.000 min

Lab File: VN085439.D

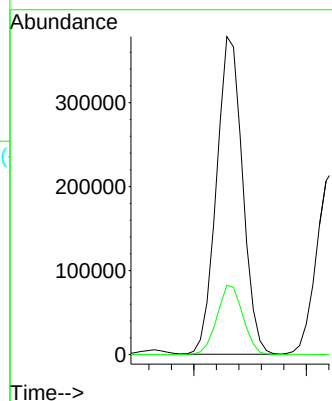
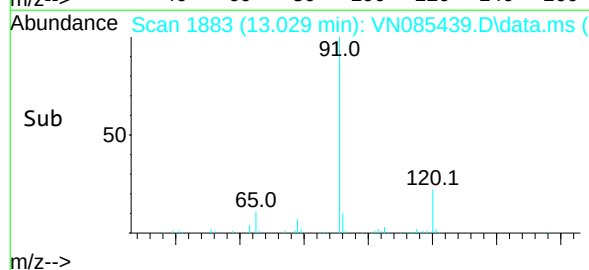
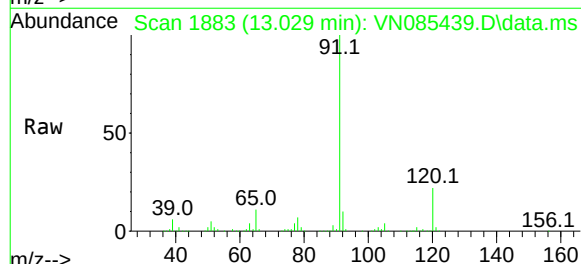
Acq: 14 Jan 2025 15:19

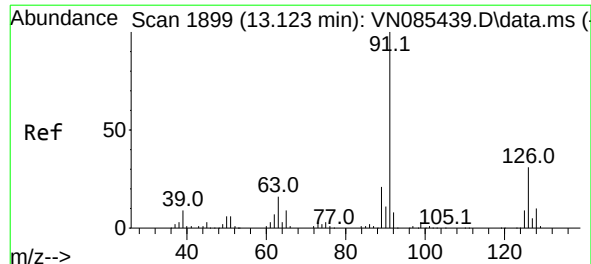
Tgt Ion: 91 Resp: 609022

Ion Ratio Lower Upper

91 100

120 21.7 10.9 32.6





#79

2-Chlorotoluene

Concen: 49.985 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 378981

Ion Ratio Lower Upper

91 100

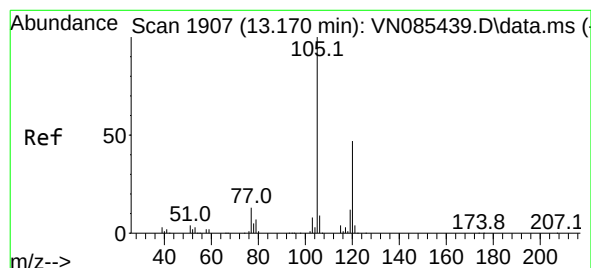
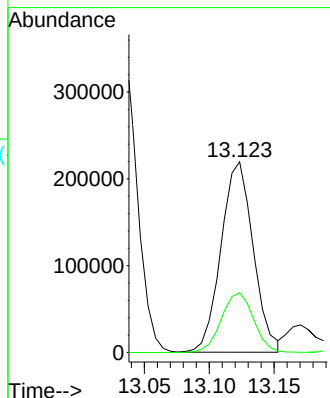
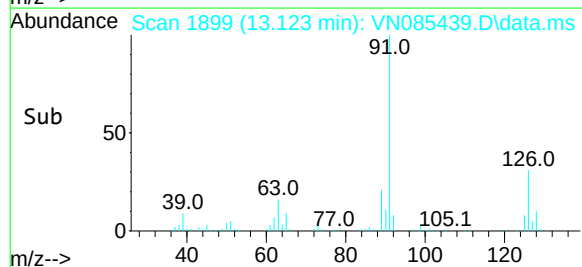
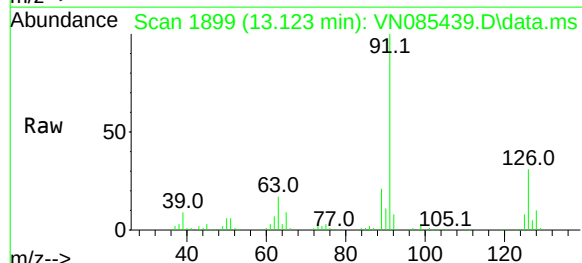
126 31.4 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#80

1,3,5-Trimethylbenzene

Concen: 52.730 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085439.D

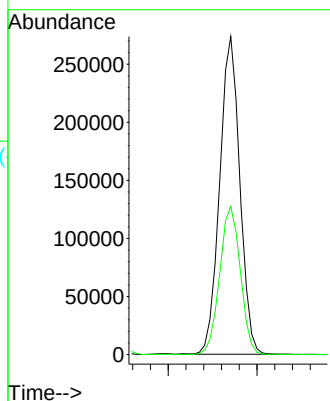
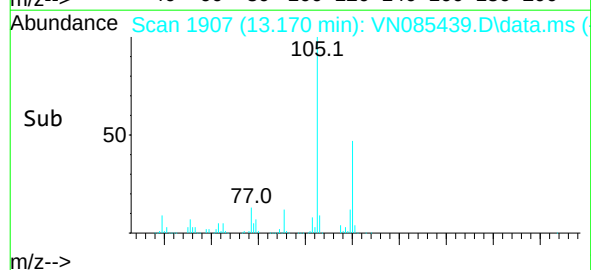
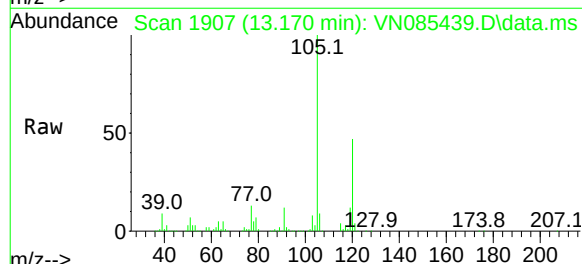
Acq: 14 Jan 2025 15:19

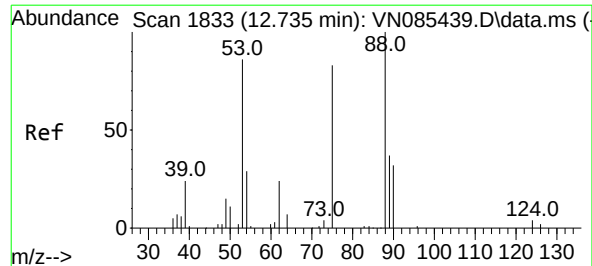
Tgt Ion:105 Resp: 431021

Ion Ratio Lower Upper

105 100

120 47.8 23.9 71.7





#81

trans-1,4-Dichloro-2-butene

Concen: 51.914 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

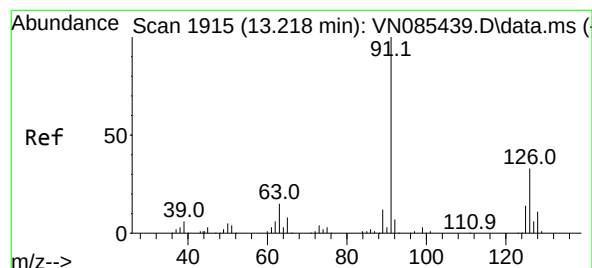
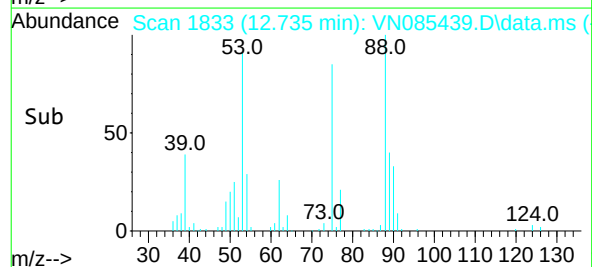
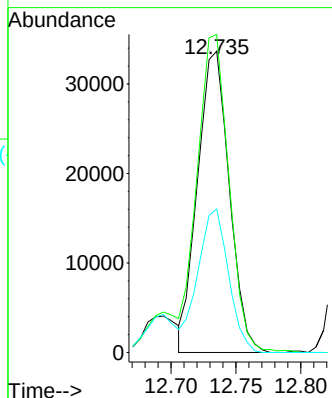
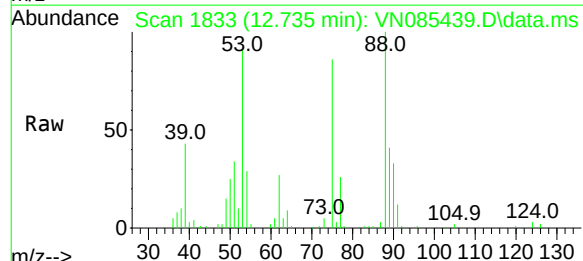
ClientSampleId :

VSTDICCC050

Tgt Ion:	75	Resp:	57184
Ion	Ratio	Lower	Upper
75	100		
53	119.5	95.6	143.4
89	46.3	37.0	55.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#82

4-Chlorotoluene

Concen: 50.273 ug/l

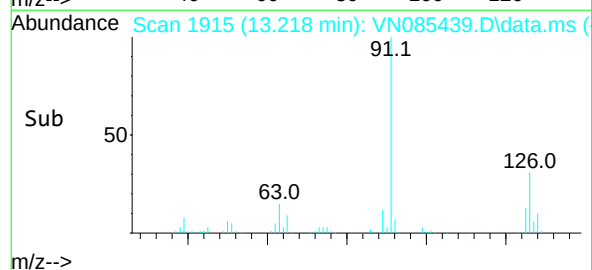
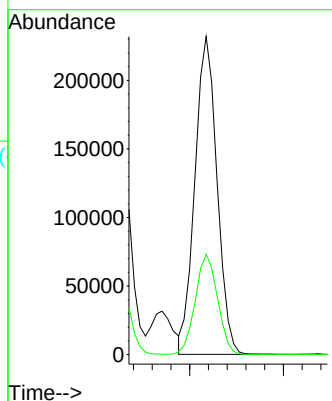
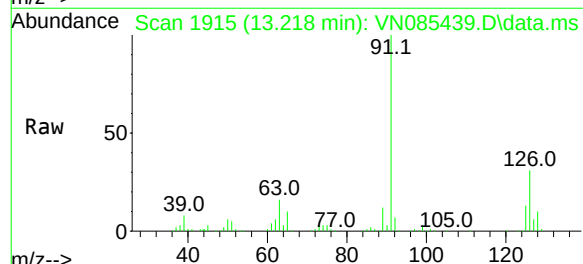
RT: 13.218 min Scan# 1915

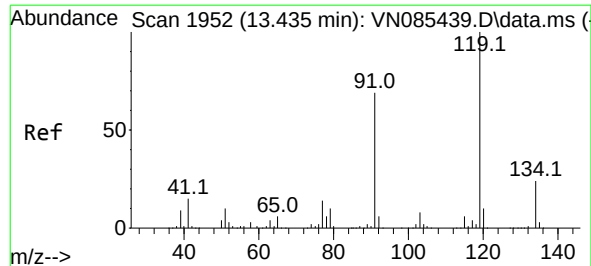
Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	91	Resp:	379524
Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.9	47.7





#83

tert-Butylbenzene

Concen: 52.090 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:119 Resp: 357563

Ion Ratio Lower Upper

119 100

91 70.2 35.1 105.3

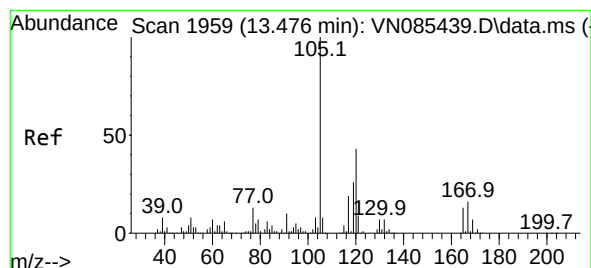
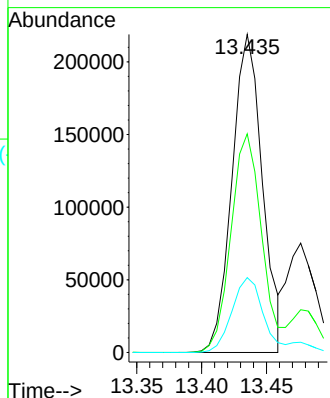
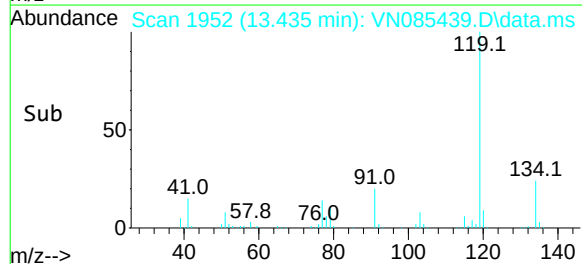
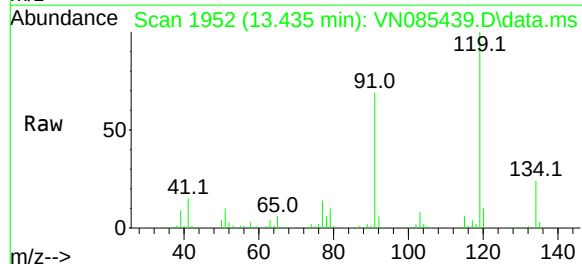
134 24.1 12.0 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#84

1,2,4-Trimethylbenzene

Concen: 54.275 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. 0.000 min

Lab File: VN085439.D

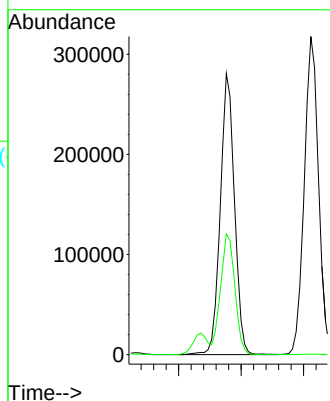
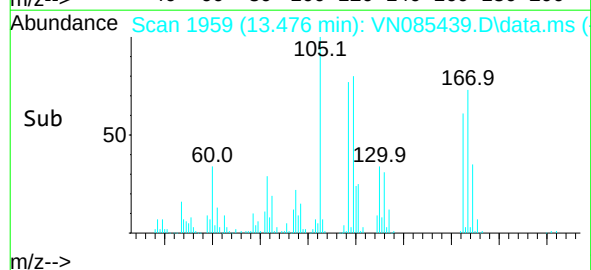
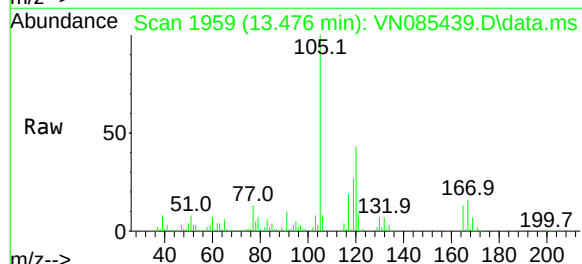
Acq: 14 Jan 2025 15:19

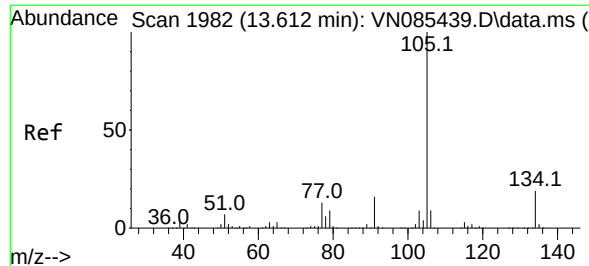
Tgt Ion:105 Resp: 442175

Ion Ratio Lower Upper

105 100

120 43.3 21.6 65.0





#85

sec-Butylbenzene

Concen: 52.719 ug/l

RT: 13.612 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:105 Resp: 501561

Ion Ratio Lower Upper

105 100

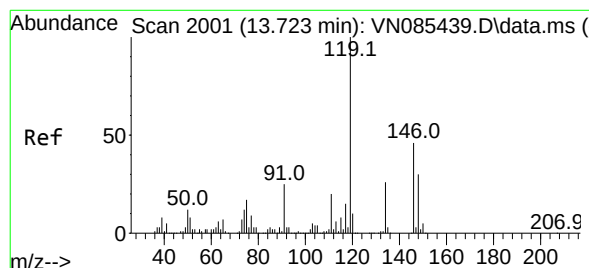
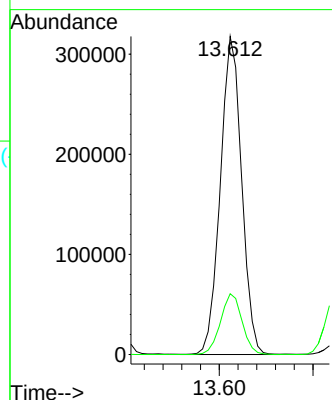
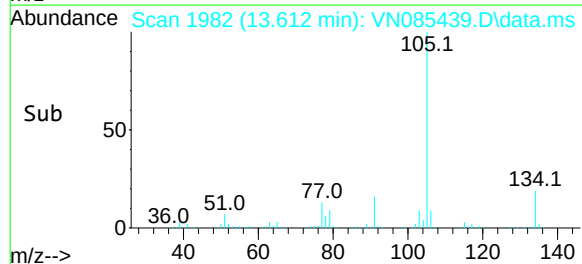
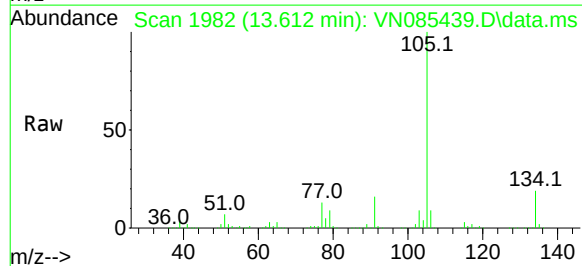
134 19.3 9.7 28.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#86

p-Isopropyltoluene

Concen: 49.240 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

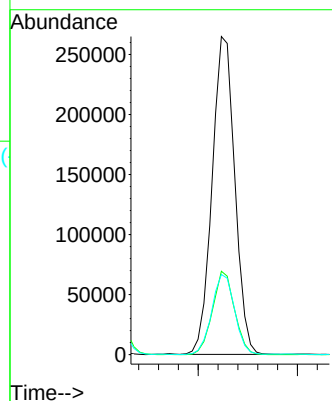
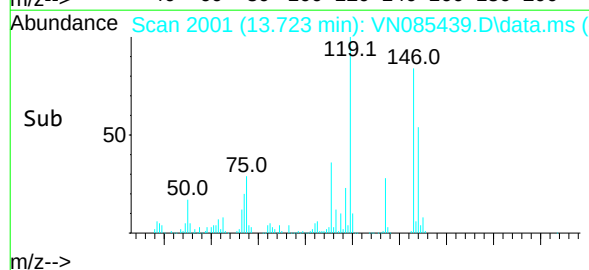
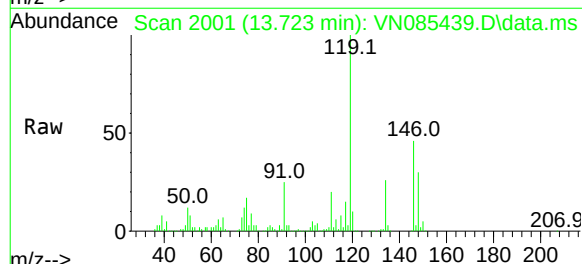
Tgt Ion:119 Resp: 421052

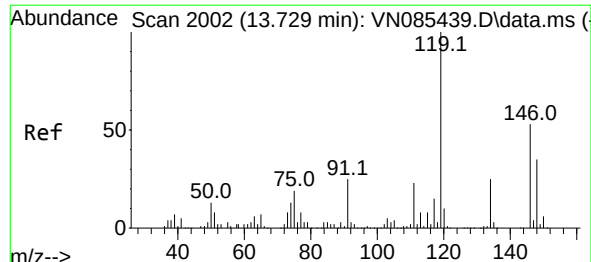
Ion Ratio Lower Upper

119 100

134 25.3 12.7 38.0

91 25.4 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 48.204 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

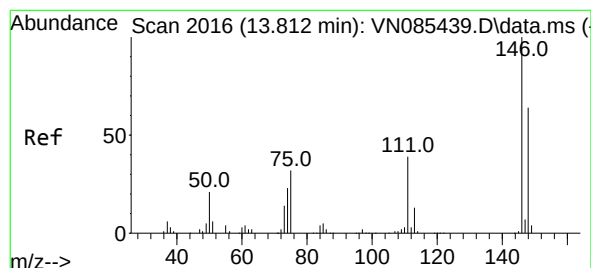
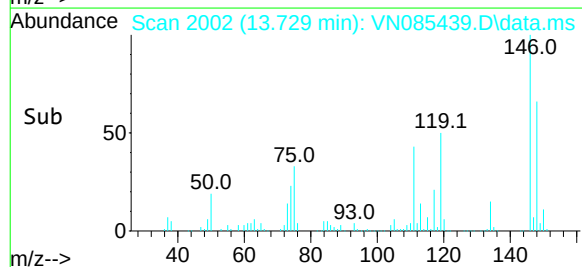
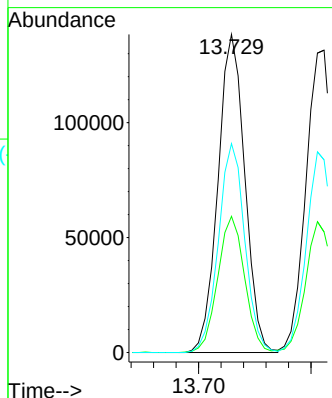
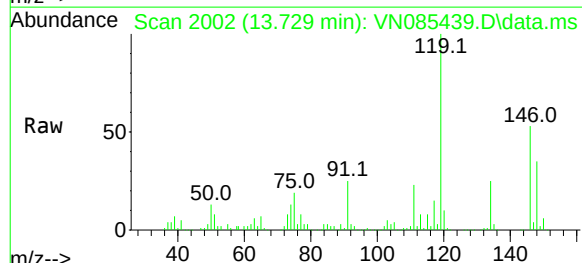
Tgt Ion:	146	Resp:	229518
Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.4	64.3
148	64.6	32.3	96.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#88

1,4-Dichlorobenzene

Concen: 46.416 ug/l

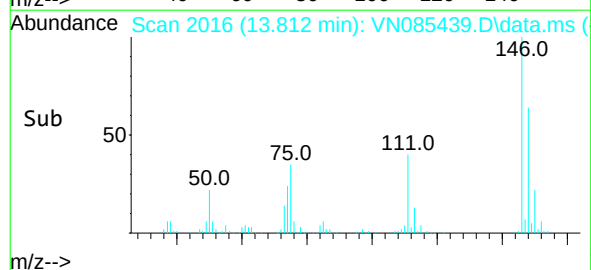
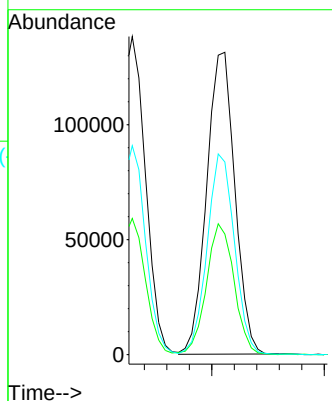
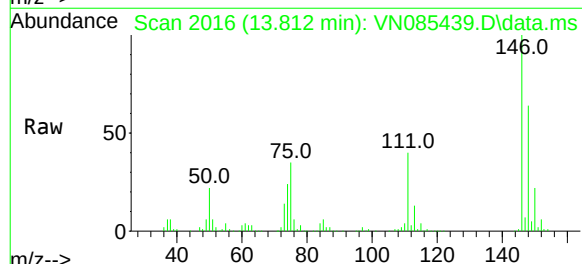
RT: 13.812 min Scan# 2016

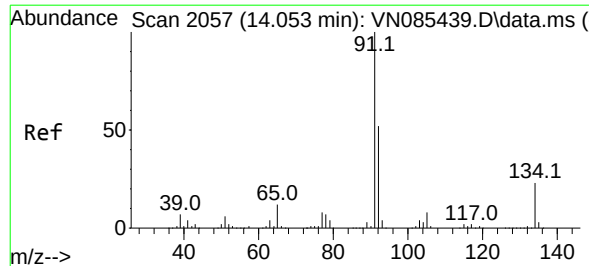
Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	146	Resp:	229084
Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.3	63.7
148	64.7	32.4	97.0





#89

n-Butylbenzene

Concen: 53.348 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

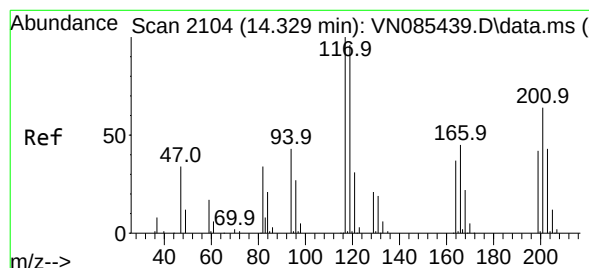
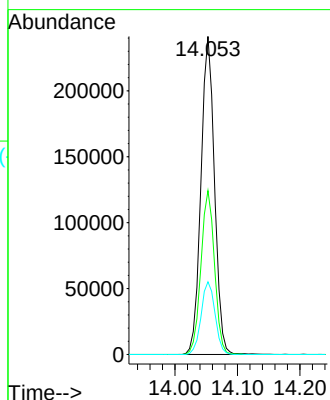
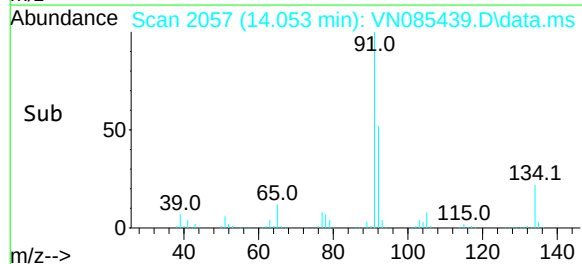
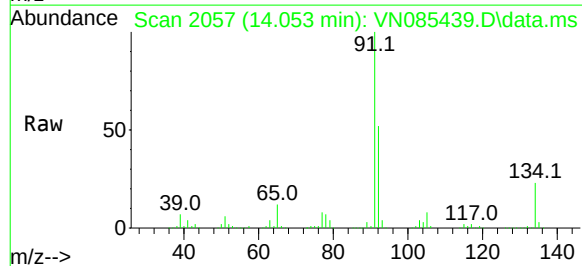
VSTDICCC050

Tgt Ion:	91	Resp:	364111
Ion	Ratio	Lower	Upper
91	100		
92	51.5	25.8	77.3
134	23.4	11.7	35.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#90

Hexachloroethane

Concen: 46.712 ug/l

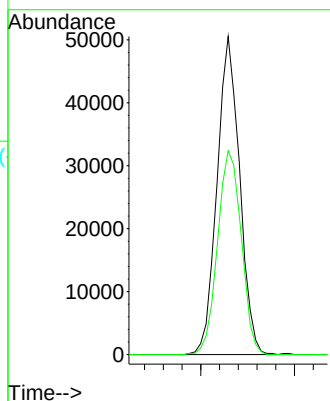
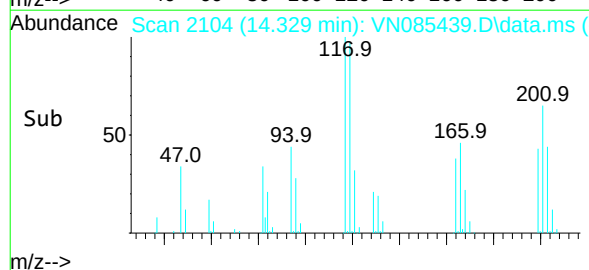
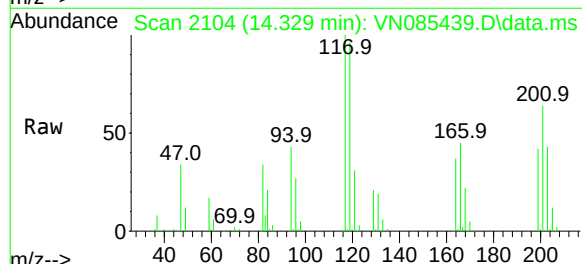
RT: 14.329 min Scan# 2104

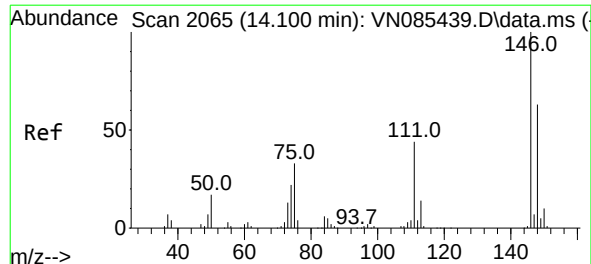
Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	117	Resp:	84602
Ion	Ratio	Lower	Upper
117	100		
201	67.3	33.7	101.0





#91

1,2-Dichlorobenzene

Concen: 48.012 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

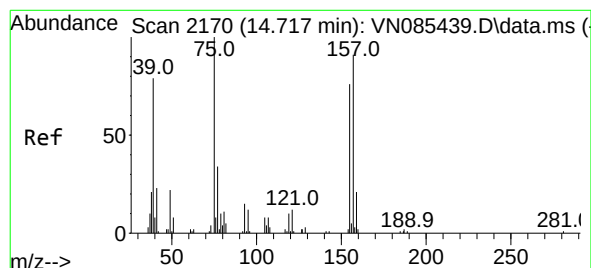
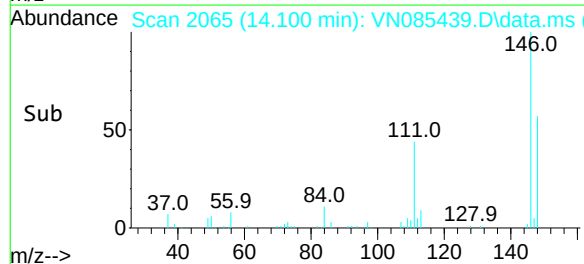
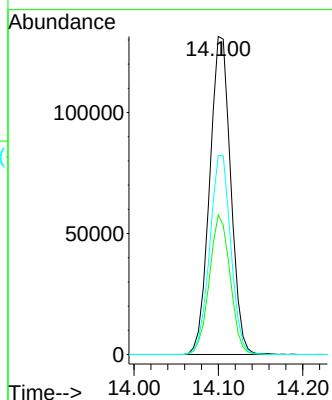
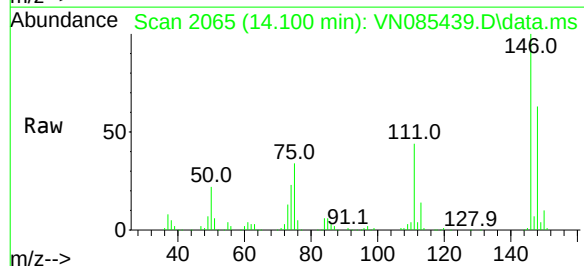
VSTDICCC050

Tgt Ion:	146	Resp:	228024
Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.7	65.1
148	62.8	31.4	94.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 50.971 ug/l

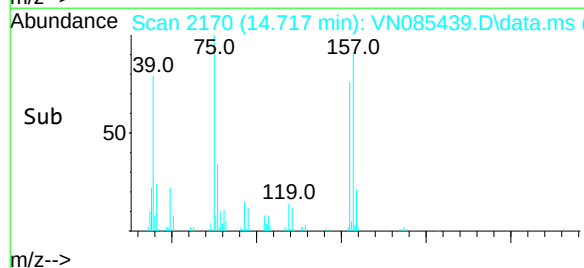
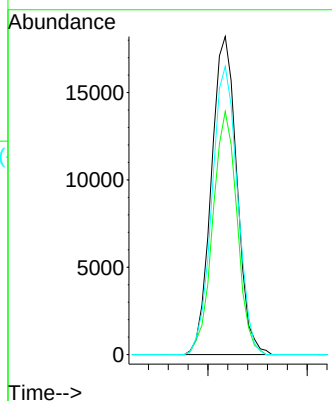
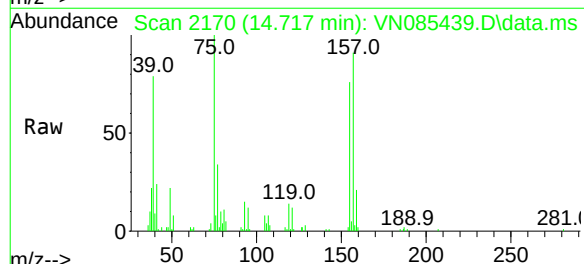
RT: 14.717 min Scan# 2170

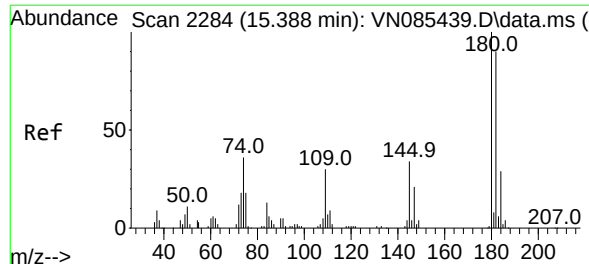
Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	75	Resp:	32536
Ion	Ratio	Lower	Upper
75	100		
155	72.8	36.4	109.2
157	90.7	45.4	136.1





#93

1,2,4-Trichlorobenzene

Concen: 51.857 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

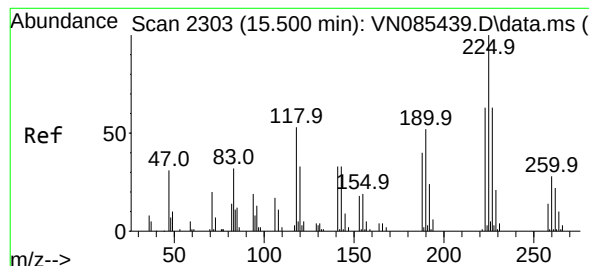
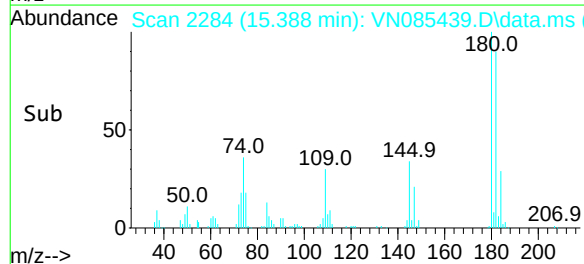
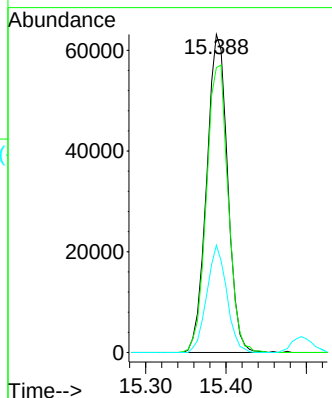
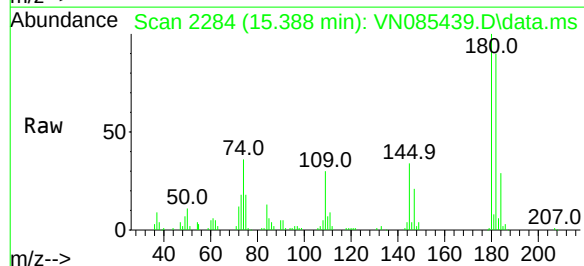
ClientSampleId :

VSTDICCC050

Tgt Ion:	180	Resp:	114468
Ion Ratio	Lower	Upper	
180	100		
182	93.5	46.8	140.3
145	32.0	16.0	48.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#94

Hexachlorobutadiene

Concen: 45.947 ug/l

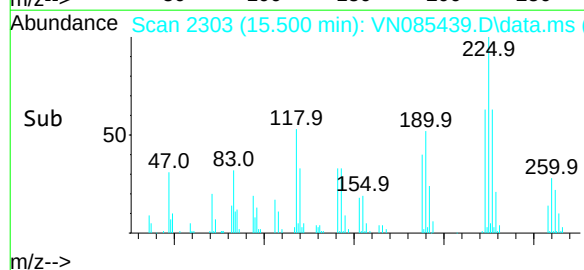
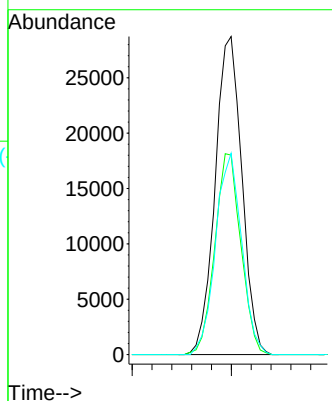
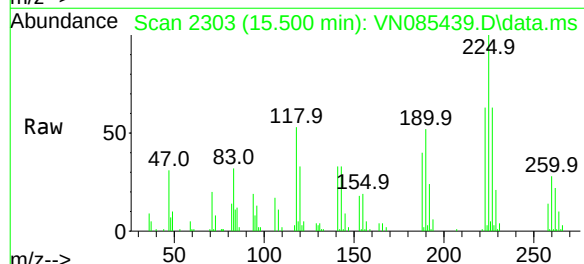
RT: 15.500 min Scan# 2303

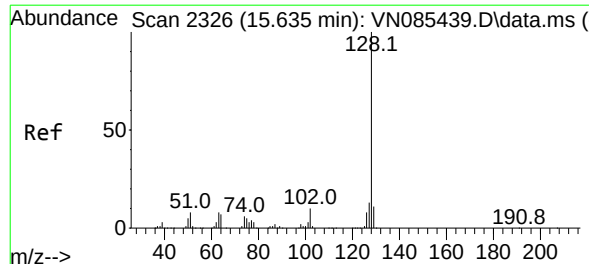
Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	225	Resp:	53846
Ion Ratio	Lower	Upper	
225	100		
223	61.4	30.7	92.1
227	61.7	30.9	92.5





#95

Naphthalene

Concen: 55.243 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:128 Resp: 363882

Ion Ratio Lower Upper

128 100

127 13.3 10.6 16.0

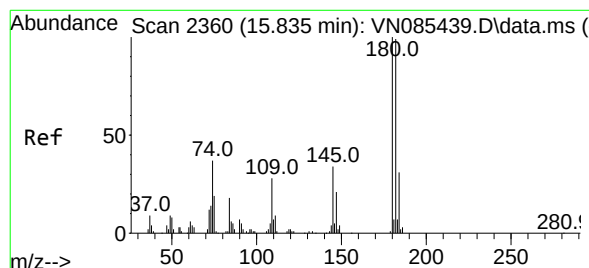
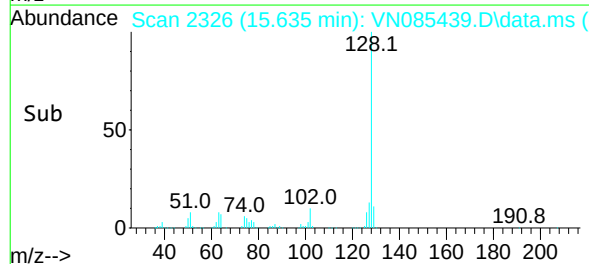
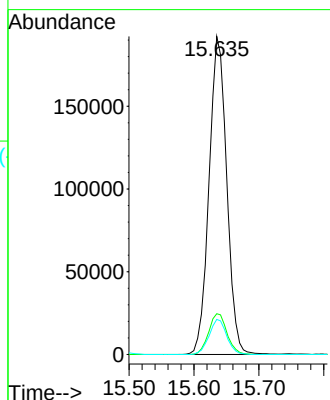
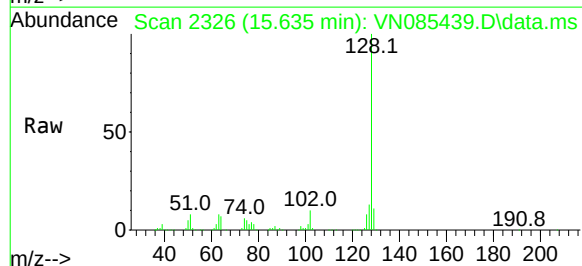
129 11.0 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#96

1,2,3-Trichlorobenzene

Concen: 51.601 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

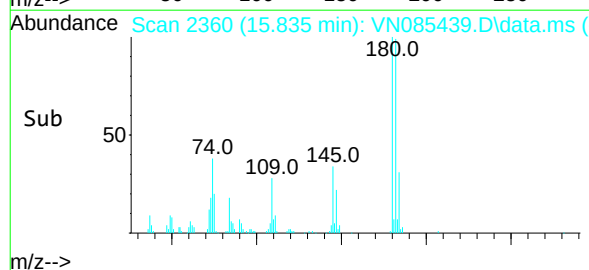
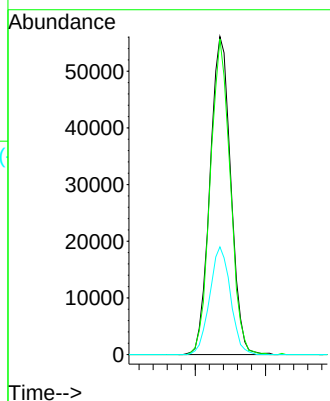
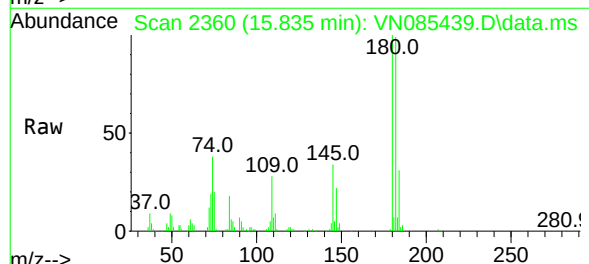
Tgt Ion:180 Resp: 115251

Ion Ratio Lower Upper

180 100

182 94.8 47.4 142.2

145 33.8 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085440.D
 Acq On : 14 Jan 2025 15:43
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:43:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	200796	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	340593	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	296298	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	143526	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	60593	18.694	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	37.380%#
35) Dibromofluoromethane	8.165	113	45655	19.322	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	38.640%#
50) Toluene-d8	10.559	98	164391	19.581	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	39.160%#
62) 4-Bromofluorobenzene	12.847	95	55798	19.430	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	38.860%#

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	54666	20.107	ug/l	98
3) Chloromethane	2.359	50	58426	19.848	ug/l	100
4) Vinyl Chloride	2.512	62	58403	19.739	ug/l	99
5) Bromomethane	2.954	94	36440	20.389	ug/l	94
6) Chloroethane	3.118	64	37594	20.041	ug/l	93
7) Trichlorofluoromethane	3.501	101	88121	20.526	ug/l	99
8) Diethyl Ether	3.965	74	29138	19.647	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	48933	20.237	ug/l	99
10) Methyl Iodide	4.589	142	56567	20.428	ug/l	93
11) Tert butyl alcohol	5.506	59	37984	102.342	ug/l	100
12) 1,1-Dichloroethene	4.342	96	44670	20.728	ug/l	95
13) Acrolein	4.171	56	49649	97.995	ug/l	99
14) Allyl chloride	5.024	41	67705	19.362	ug/l	96
15) Acrylonitrile	5.712	53	121626	103.171	ug/l	99
16) Acetone	4.424	43	101065	96.502	ug/l	96
17) Carbon Disulfide	4.712	76	132300	19.939	ug/l	98
18) Methyl Acetate	5.018	43	60873	19.115	ug/l	99
19) Methyl tert-butyl Ether	5.795	73	148847	21.272	ug/l	100
20) Methylene Chloride	5.271	84	52813	20.370	ug/l	97
21) trans-1,2-Dichloroethene	5.789	96	46115	20.023	ug/l	98
22) Diisopropyl ether	6.671	45	166719	21.480	ug/l	97
23) Vinyl Acetate	6.594	43	588567m	107.984	ug/l	
24) 1,1-Dichloroethane	6.565	63	96875	20.469	ug/l #	96
25) 2-Butanone	7.477	43	159952	103.786	ug/l	98
26) 2,2-Dichloropropane	7.483	77	79145	20.684	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	57454	21.180	ug/l	98
28) Bromochloromethane	7.812	49	41181	18.703	ug/l	99
29) Tetrahydrofuran	7.836	42	104792	107.247	ug/l	99
30) Chloroform	7.959	83	99655	20.374	ug/l	99
31) Cyclohexane	8.253	56	82980	20.173	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	87659	20.431	ug/l	98
36) 1,1-Dichloropropene	8.371	75	67949	20.490	ug/l	98
37) Ethyl Acetate	7.553	43	66443	19.850	ug/l	96
38) Carbon Tetrachloride	8.359	117	78842	20.767	ug/l	96
39) Methylcyclohexane	9.594	83	65012	20.862	ug/l	96
40) Benzene	8.600	78	207985	20.873	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085440.D
 Acq On : 14 Jan 2025 15:43
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:43:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	36578	21.004	ug/l	99
42) 1,2-Dichloroethane	8.665	62	78402	20.891	ug/l	99
43) Isopropyl Acetate	8.683	43	109131	20.347	ug/l	98
44) Trichloroethene	9.347	130	48009	20.699	ug/l	96
45) 1,2-Dichloropropane	9.618	63	52833	20.758	ug/l	93
46) Dibromomethane	9.700	93	37721	20.540	ug/l	98
47) Bromodichloromethane	9.882	83	78918	21.093	ug/l	96
48) Methyl methacrylate	9.677	41	50224	20.808	ug/l	96
49) 1,4-Dioxane	9.688	88	17140	421.686	ug/l	95
51) 4-Methyl-2-Pentanone	10.441	43	336911	108.249	ug/l	100
52) Toluene	10.630	92	125172	21.680	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	74129	20.965	ug/l	96
54) cis-1,3-Dichloropropene	10.306	75	81897	21.684	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	48039	21.025	ug/l	97
56) Ethyl methacrylate	10.871	69	70934	19.649	ug/l	99
57) 1,3-Dichloropropane	11.159	76	84210	21.196	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	153681	105.991	ug/l	100
59) 2-Hexanone	11.194	43	240595	109.863	ug/l	98
60) Dibromochloromethane	11.353	129	56069	20.326	ug/l	96
61) 1,2-Dibromoethane	11.465	107	48465	21.309	ug/l	96
64) Tetrachloroethene	11.100	164	43243	21.408	ug/l	96
65) Chlorobenzene	11.888	112	136809	21.077	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	48370	20.304	ug/l	98
67) Ethyl Benzene	11.959	91	229978	21.753	ug/l	98
68) m/p-Xylenes	12.071	106	177755	45.494	ug/l	100
69) o-Xylene	12.394	106	84548	22.643	ug/l	98
70) Styrene	12.412	104	140581	22.749	ug/l	99
71) Bromoform	12.576	173	36961	21.683	ug/l #	96
73) Isopropylbenzene	12.694	105	211354	21.819	ug/l	100
74) N-amyl acetate	12.494	43	94292	21.656	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	68151	19.917	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	64180m	22.036	ug/l	
77) Bromobenzene	12.976	156	52022	20.556	ug/l	99
78) n-propylbenzene	13.035	91	252610	22.028	ug/l	100
79) 2-Chlorotoluene	13.123	91	158511	21.358	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	180294	22.533	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	22178m	20.569	ug/l	
82) 4-Chlorotoluene	13.218	91	161880	21.906	ug/l	100
83) tert-Butylbenzene	13.435	119	147541	21.958	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	183144	22.965	ug/l	99
85) sec-Butylbenzene	13.612	105	209133	22.457	ug/l	100
86) p-Isopropyltoluene	13.729	119	168888	21.661	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	97652	20.952	ug/l	100
88) 1,4-Dichlorobenzene	13.806	146	98321	20.351	ug/l	99
89) n-Butylbenzene	14.053	91	142673	21.355	ug/l	99
90) Hexachloroethane	14.329	117	35205	19.858	ug/l	98
91) 1,2-Dichlorobenzene	14.100	146	94954	20.425	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	12859	20.580	ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	45878	21.233	ug/l	99
94) Hexachlorobutadiene	15.500	225	22719	19.805	ug/l	95
95) Naphthalene	15.635	128	134793	20.906	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	45468	20.797	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085440.D
Acq On : 14 Jan 2025 15:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:43:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

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

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

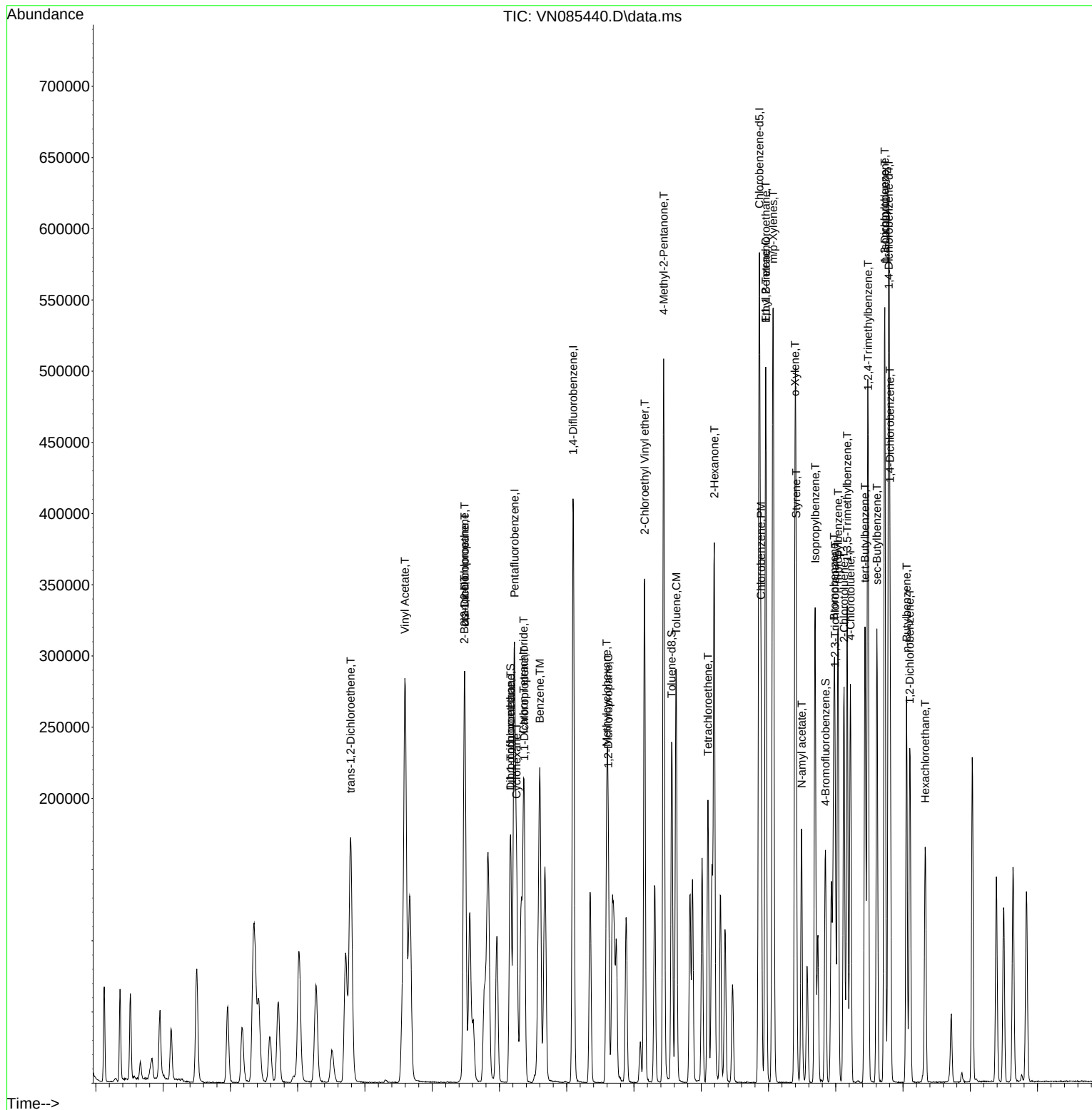
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\  
Data File : VN085440.D  
Acq On    : 14 Jan 2025   15:43  
Operator  : JC\MD  
Sample    : VSTDICC020  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 6   Sample Multiplier: 1
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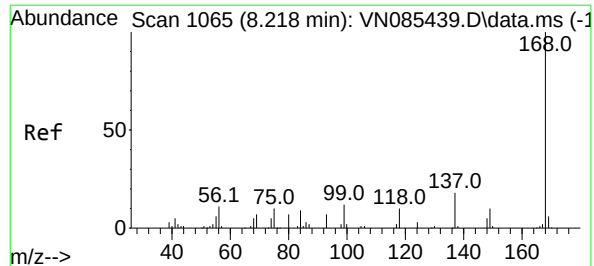
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

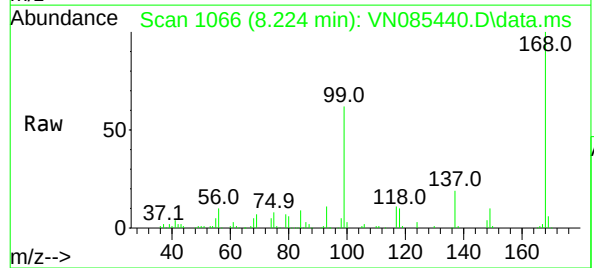
Quant Time: Jan 15 01:43:07 2025
Quant Method : Z:\voasrv\HPCHEM1\M\$VOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

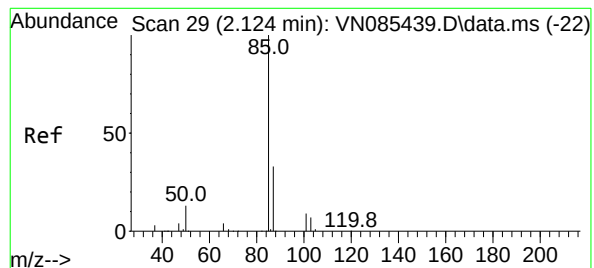
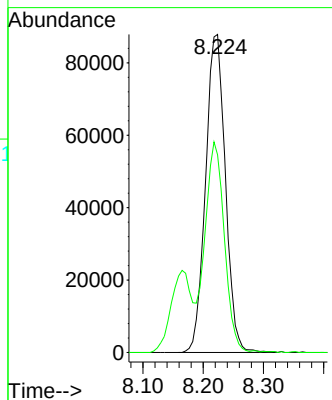
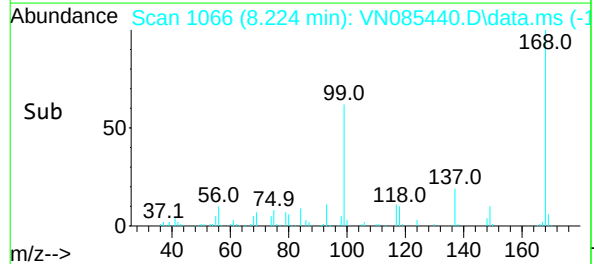
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 168 Resp: 200796
Ion Ratio Lower Upper
168 100
99 62.2 53.6 80.4

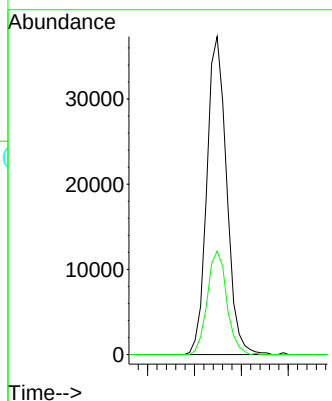
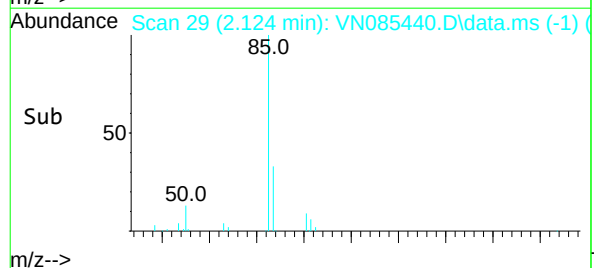
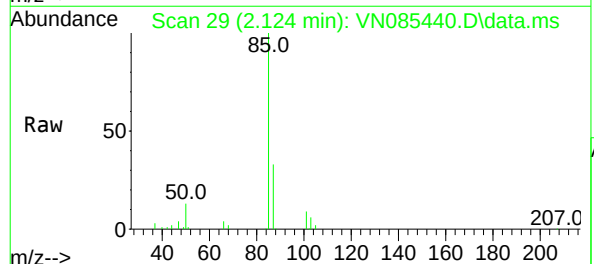
Manual Integrations
APPROVED

Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025

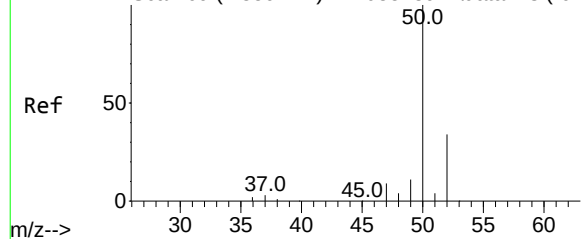


#2
Dichlorodifluoromethane
Concen: 20.107 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 85 Resp: 54666
Ion Ratio Lower Upper
85 100
87 32.5 16.7 50.1



Abundance Scan 69 (2.359 min): VN085439.D\data.ms (-62)



#3

Chloromethane

Concen: 19.848 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 50 Resp: 58426

Ion Ratio Lower Upper

50 100

52 34.0 27.0 40.6

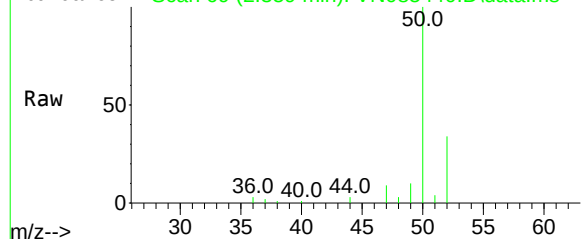
Manual Integrations

APPROVED

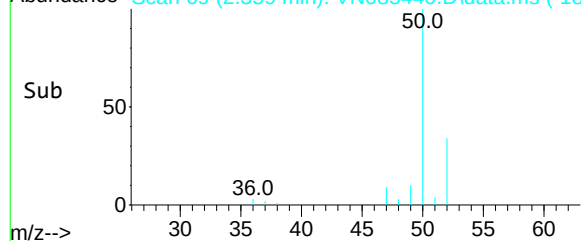
Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025

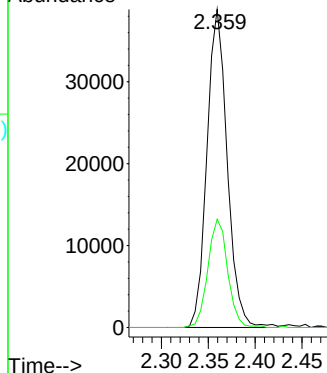
Abundance Scan 69 (2.359 min): VN085440.D\data.ms



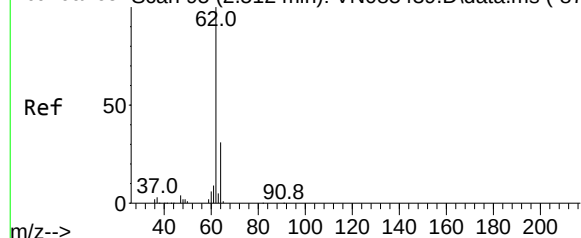
Abundance Scan 69 (2.359 min): VN085440.D\data.ms (-18)



Abundance



Abundance Scan 95 (2.512 min): VN085439.D\data.ms (-87)



#4

Vinyl Chloride

Concen: 19.739 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

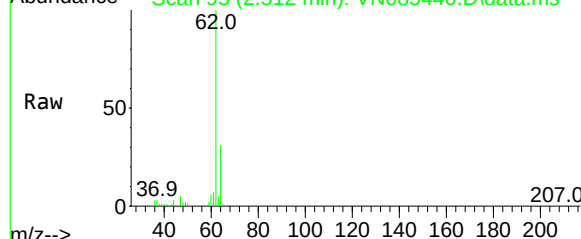
Tgt Ion: 62 Resp: 58403

Ion Ratio Lower Upper

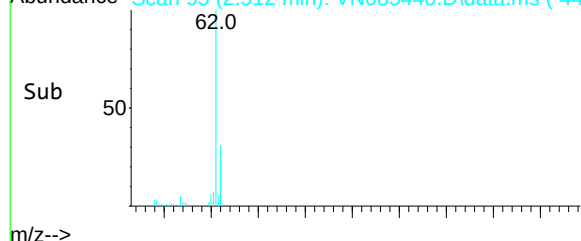
62 100

64 30.7 24.8 37.2

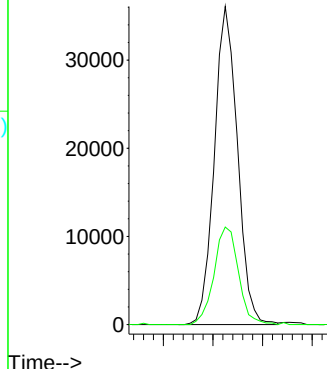
Abundance Scan 95 (2.512 min): VN085440.D\data.ms

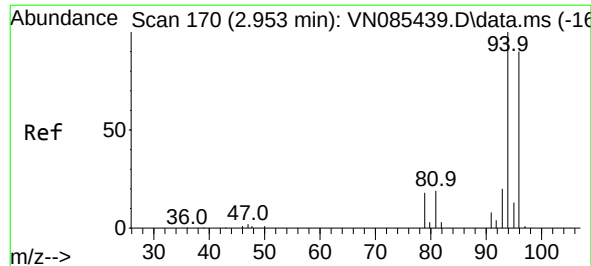


Abundance Scan 95 (2.512 min): VN085440.D\data.ms (-44)



Abundance





#5

Bromomethane

Concen: 20.389 ug/l

RT: 2.954 min Scan# 170

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 94 Resp: 36440

Ion Ratio Lower Upper

94 100

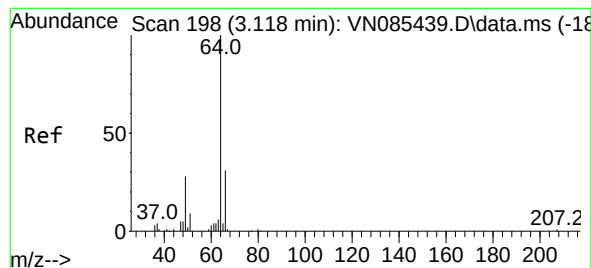
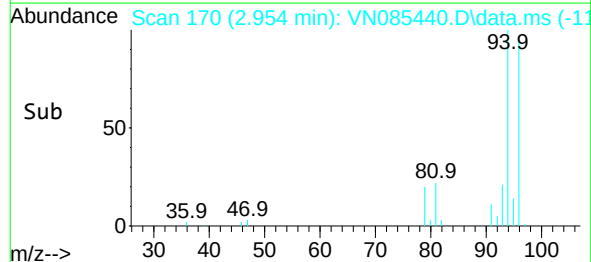
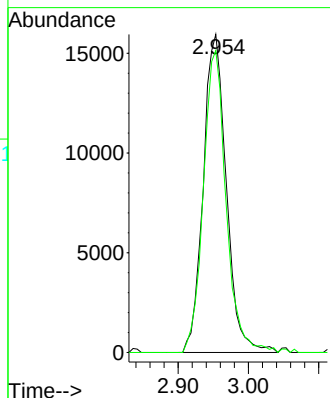
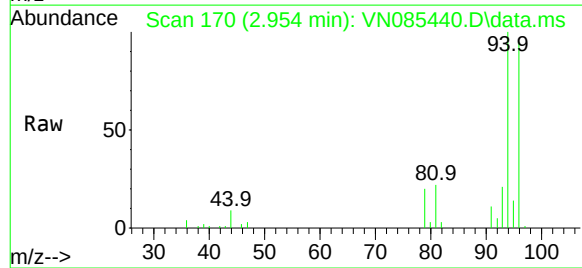
96 94.9 71.8 107.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#6

Chloroethane

Concen: 20.041 ug/l

RT: 3.118 min Scan# 198

Delta R.T. 0.000 min

Lab File: VN085440.D

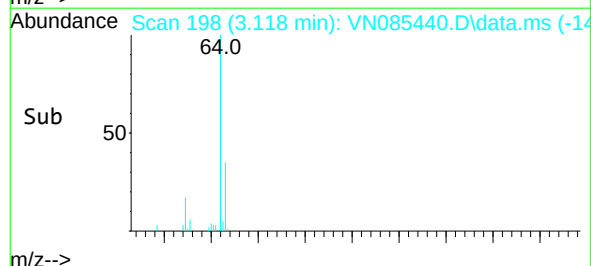
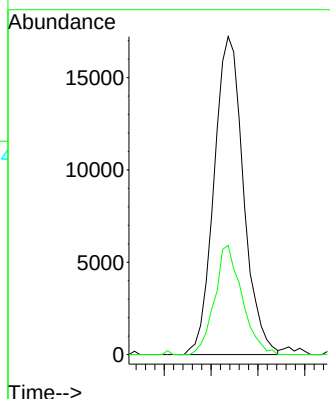
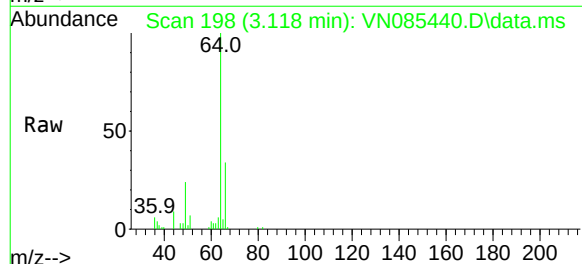
Acq: 14 Jan 2025 15:43

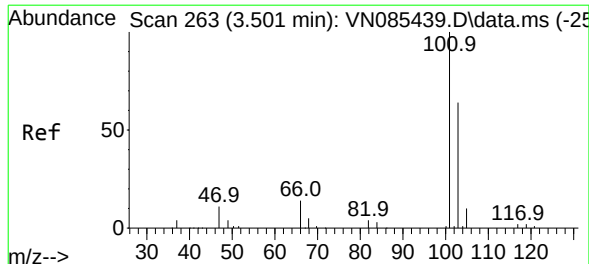
Tgt Ion: 64 Resp: 37594

Ion Ratio Lower Upper

64 100

66 34.3 24.6 36.8





#7

Trichlorofluoromethane

Concen: 20.526 ug/l

RT: 3.501 min Scan# 26

Delta R.T. 0.000 min

Lab File: VN085440.D

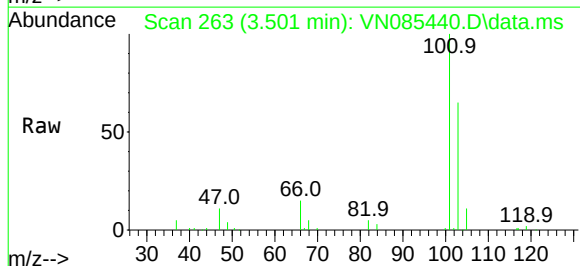
Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020



Tgt Ion:101 Resp: 88121

Ion Ratio Lower Upper

101 100

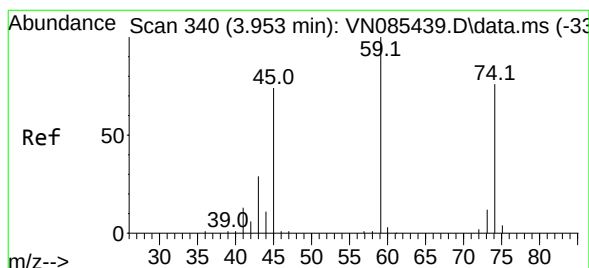
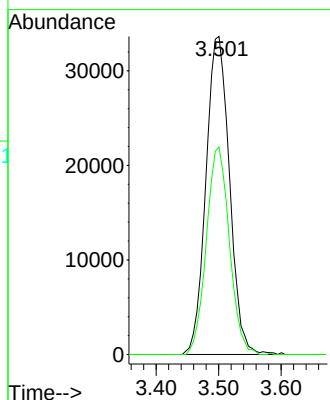
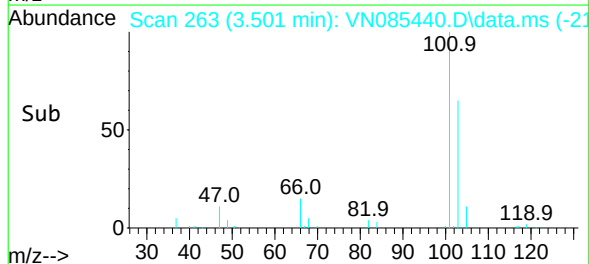
103 65.3 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#8

Diethyl Ether

Concen: 19.647 ug/l

RT: 3.965 min Scan# 342

Delta R.T. 0.012 min

Lab File: VN085440.D

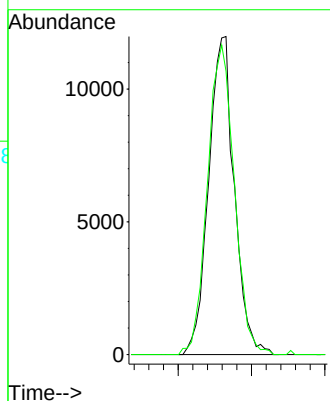
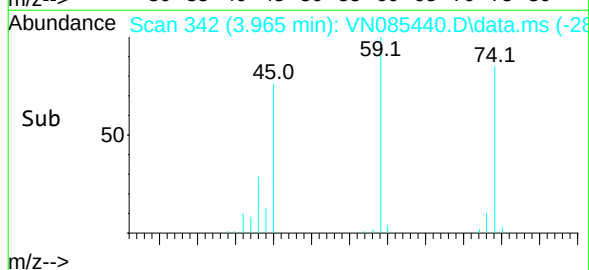
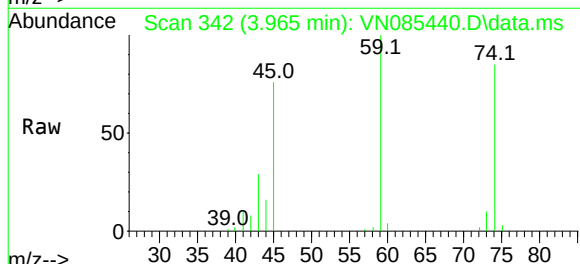
Acq: 14 Jan 2025 15:43

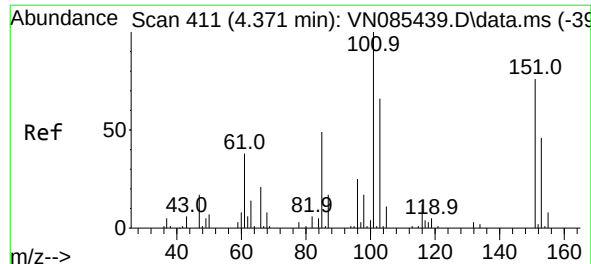
Tgt Ion: 74 Resp: 29138

Ion Ratio Lower Upper

74 100

45 101.8 49.7 149.1





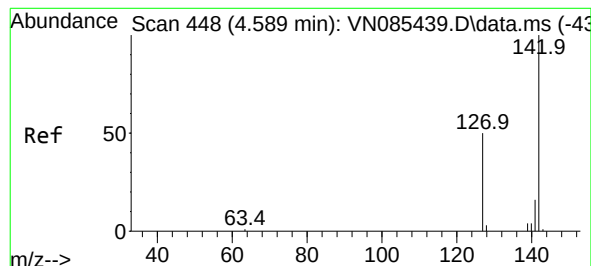
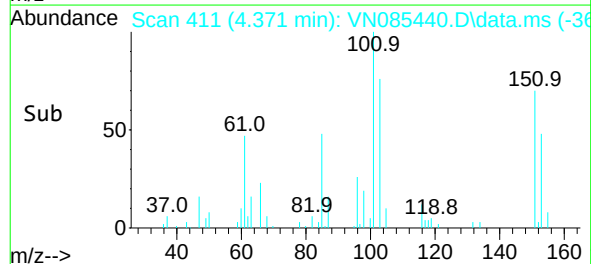
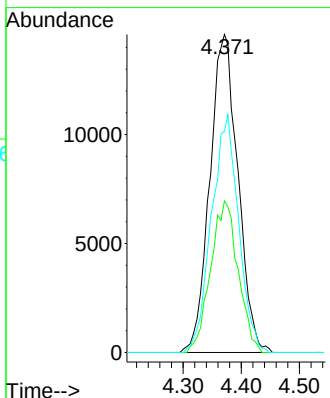
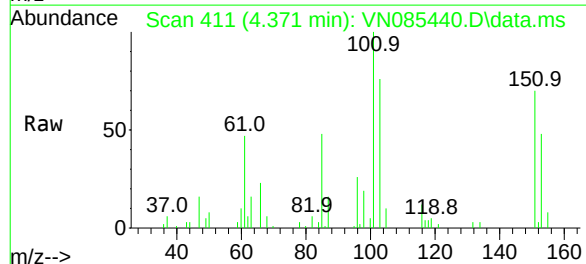
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.237 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion	101	Resp	48933
Ion Ratio	100		
85	46.6	37.8	56.8
151	72.1	58.8	88.2

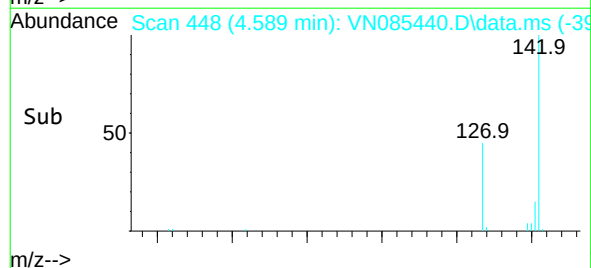
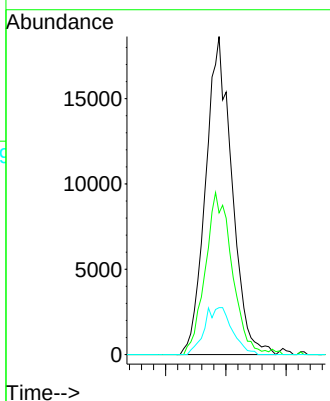
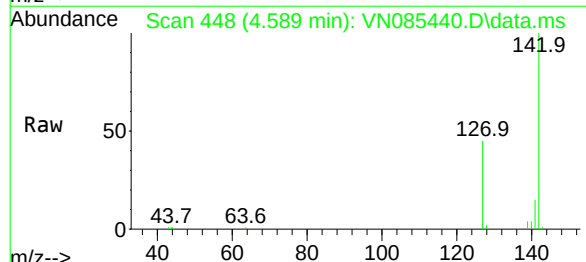
Manual Integrations
APPROVED

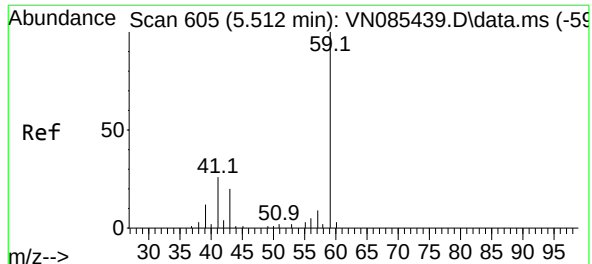
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#10
Methyl Iodide
Concen: 20.428 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion	142	Resp	56567
Ion Ratio <td>100</td> <td></td> <td></td>	100		
127	44.6	40.3	60.5
141	14.8	12.8	19.2





#11

Tert butyl alcohol

Concen: 102.342 ug/l

RT: 5.506 min Scan# 605

Delta R.T. -0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 59 Resp: 37984

Ion Ratio Lower Upper

59 100

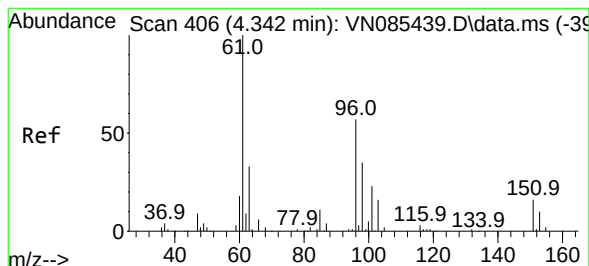
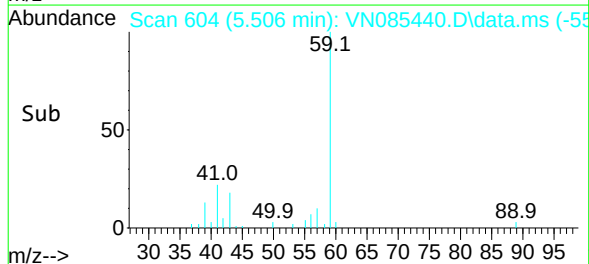
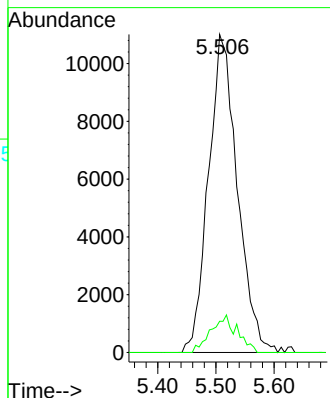
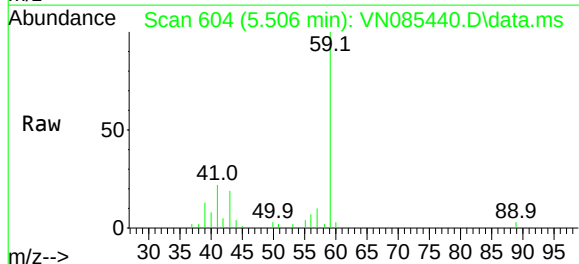
57 10.7 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#12

1,1-Dichloroethene

Concen: 20.728 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

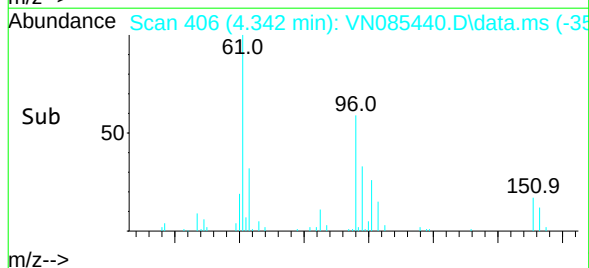
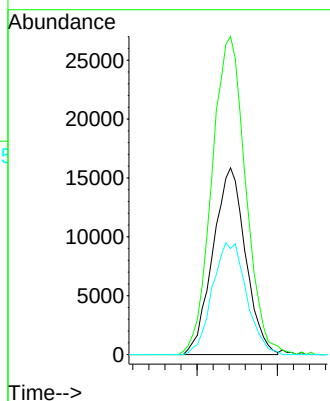
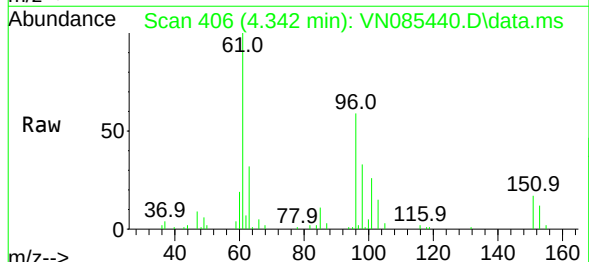
Tgt Ion: 96 Resp: 44670

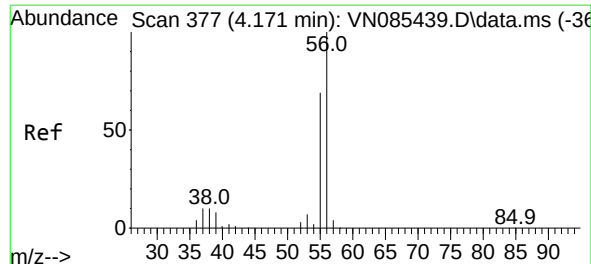
Ion Ratio Lower Upper

96 100

61 170.3 141.0 211.4

98 56.8 49.0 73.6





#13

Acrolein

Concen: 97.995 ug/l

RT: 4.171 min Scan# 37

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 49649

Ion Ratio Lower Upper

56 100

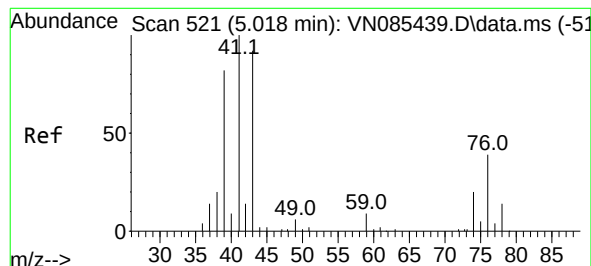
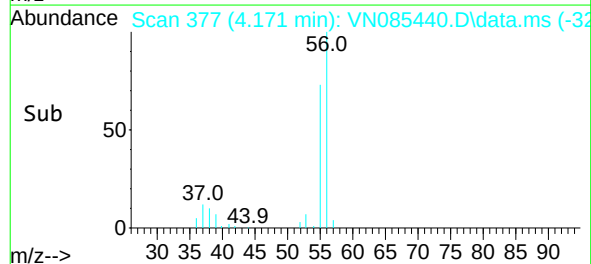
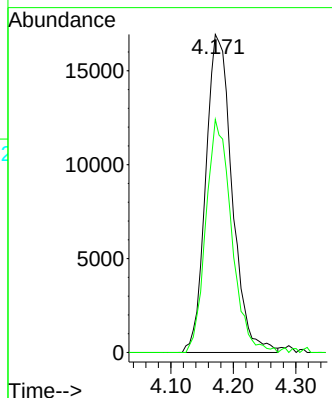
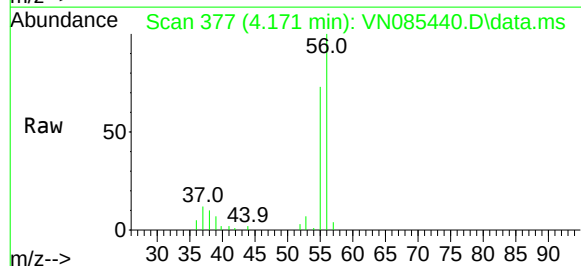
55 71.4 56.3 84.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#14

Allyl chloride

Concen: 19.362 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

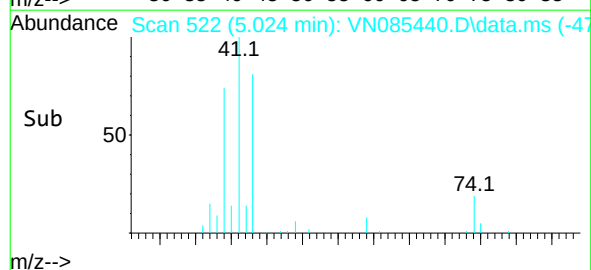
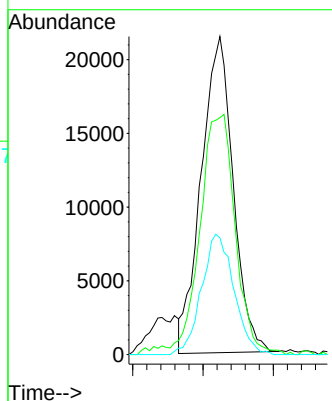
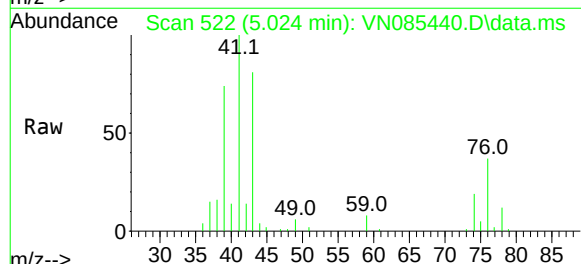
Tgt Ion: 41 Resp: 67705

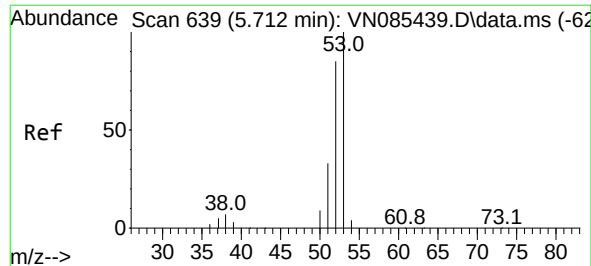
Ion Ratio Lower Upper

41 100

39 85.0 64.4 96.6

76 38.6 30.5 45.7





#15

Acrylonitrile

Concen: 103.171 ug/l

RT: 5.712 min Scan# 639

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 53 Resp: 121626

Ion Ratio Lower Upper

53 100

52 81.1 65.5 98.3

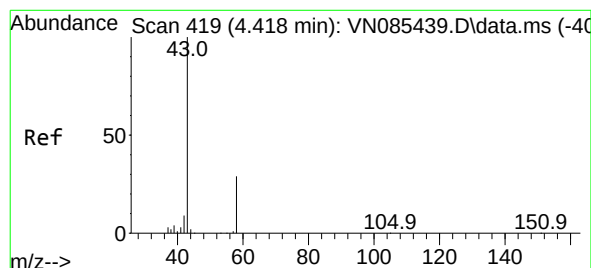
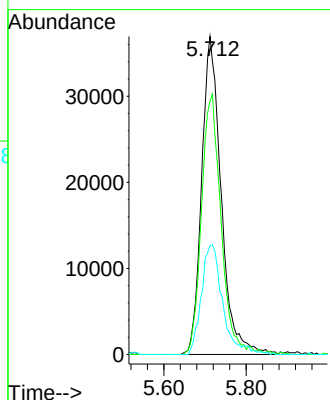
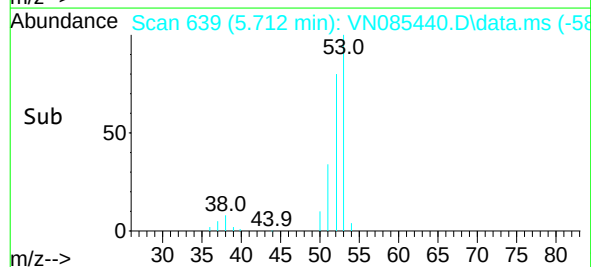
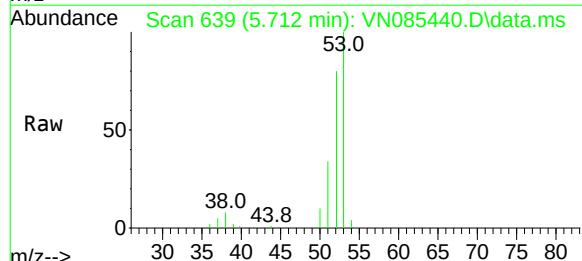
51 36.1 29.8 44.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#16

Acetone

Concen: 96.502 ug/l

RT: 4.424 min Scan# 420

Delta R.T. 0.006 min

Lab File: VN085440.D

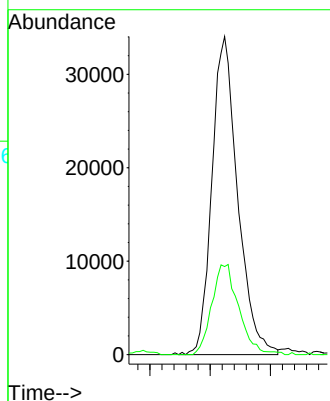
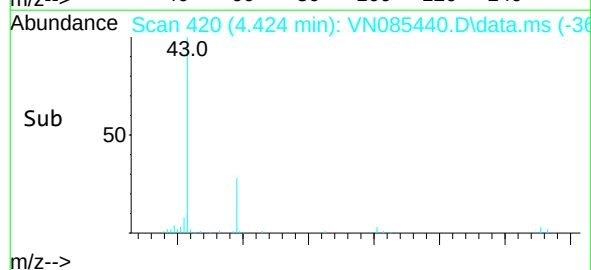
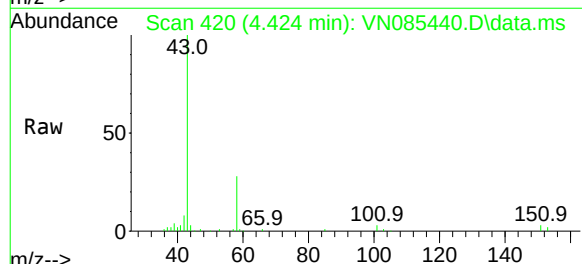
Acq: 14 Jan 2025 15:43

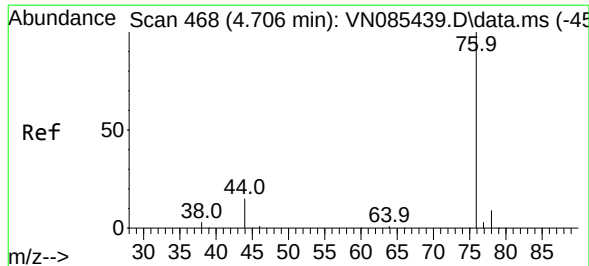
Tgt Ion: 43 Resp: 101065

Ion Ratio Lower Upper

43 100

58 27.7 23.8 35.6





#17

Carbon Disulfide

Concen: 19.939 ug/l

RT: 4.712 min Scan# 468

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 132300

Ion Ratio Lower Upper

76 100

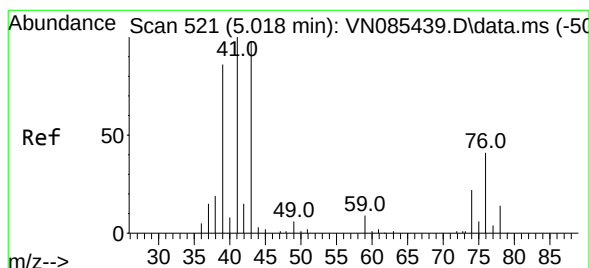
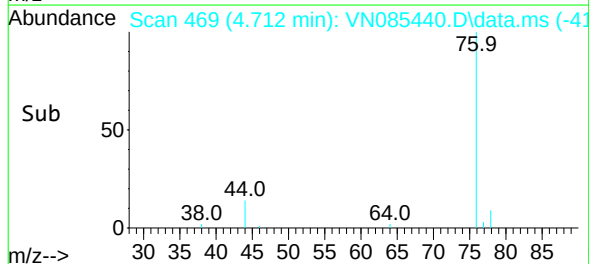
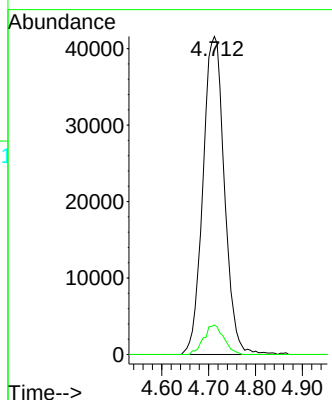
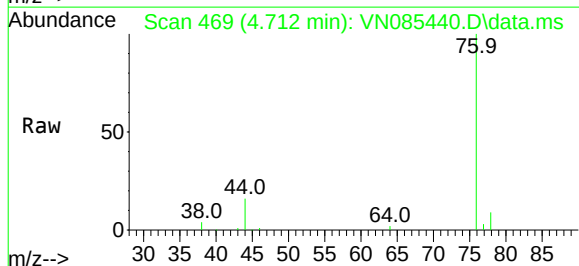
78 9.3 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#18

Methyl Acetate

Concen: 19.115 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085440.D

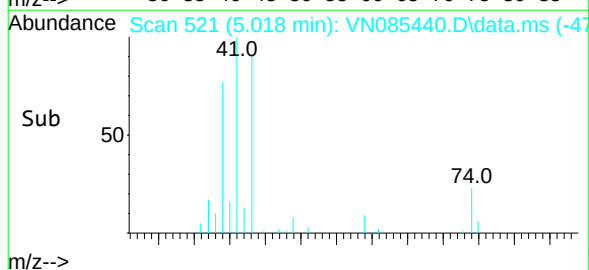
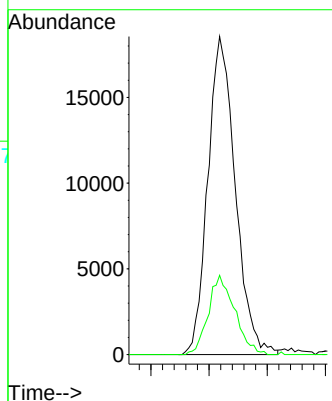
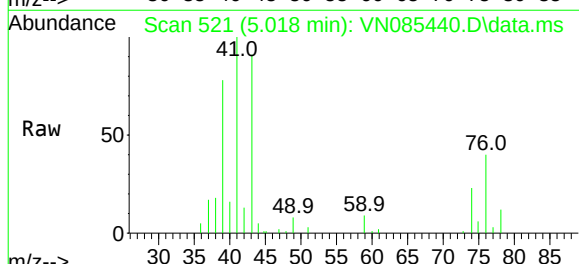
Acq: 14 Jan 2025 15:43

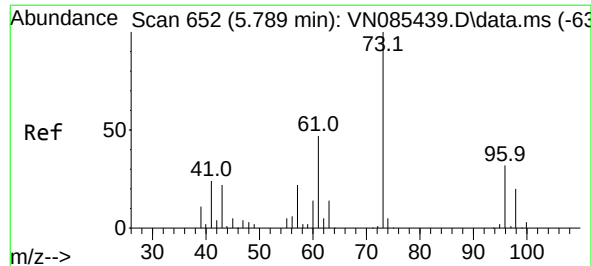
Tgt Ion: 43 Resp: 60873

Ion Ratio Lower Upper

43 100

74 24.0 18.6 28.0





#19

Methyl tert-butyl Ether

Concen: 21.272 ug/l

RT: 5.795 min Scan# 65

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 73 Resp: 148847

Ion Ratio Lower Upper

73 100

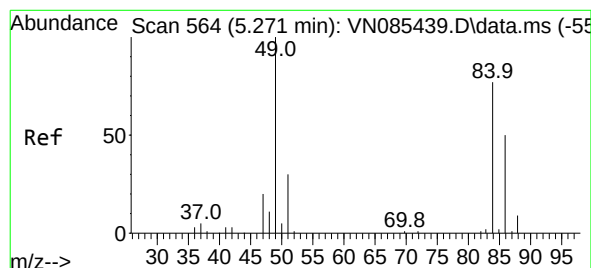
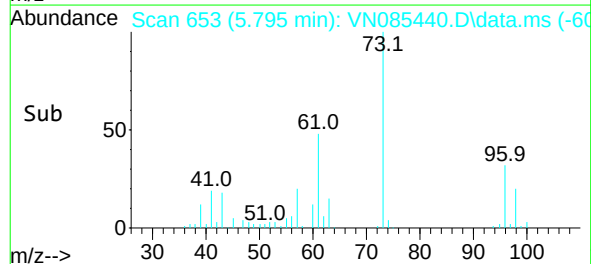
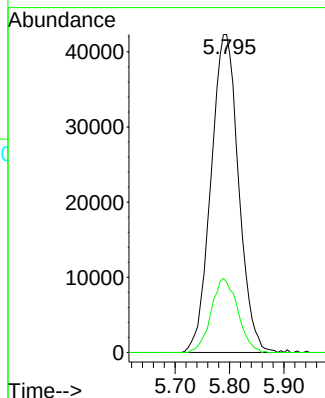
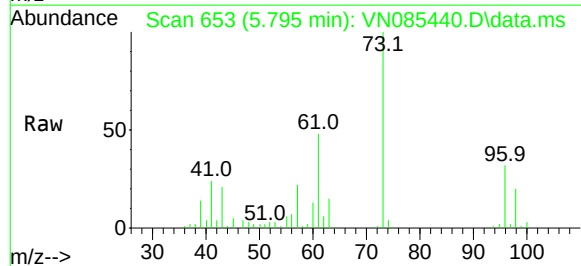
57 22.1 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#20

Methylene Chloride

Concen: 20.370 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion: 84 Resp: 52813

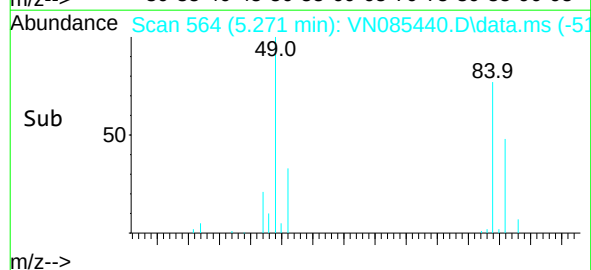
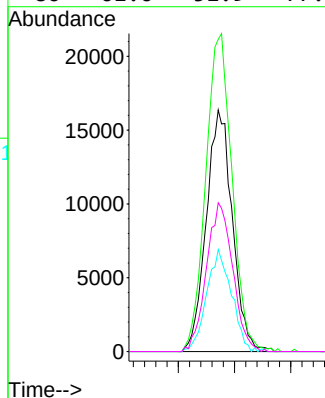
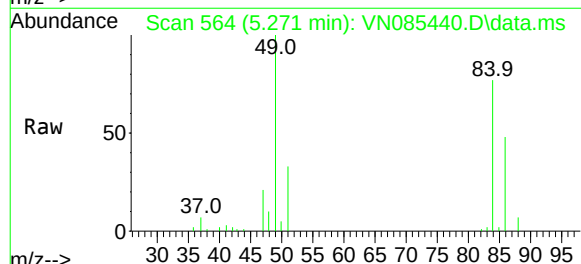
Ion Ratio Lower Upper

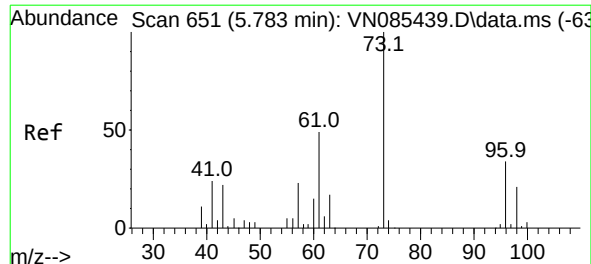
84 100

49 129.2 104.1 156.1

51 42.2 31.0 46.4

86 61.6 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 20.023 ug/l

RT: 5.789 min Scan# 651

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 96 Resp: 46115

Ion Ratio Lower Upper

96 100

61 146.1 115.7 173.5

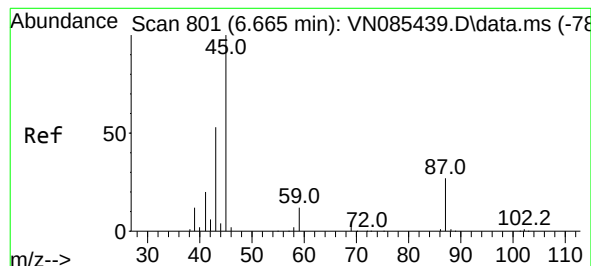
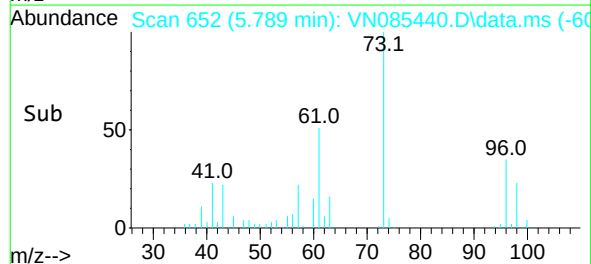
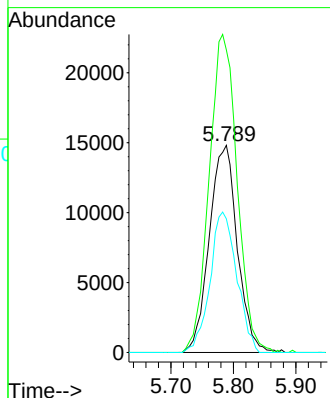
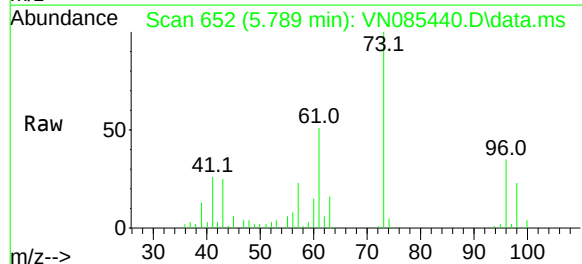
98 64.5 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#22

Diisopropyl ether

Concen: 21.480 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion: 45 Resp: 166719

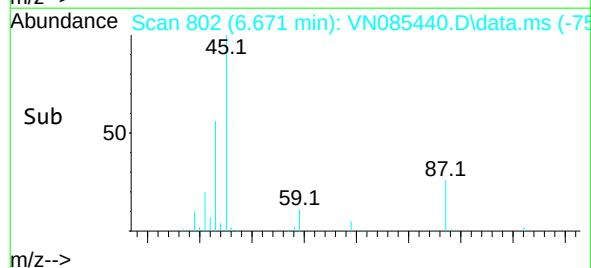
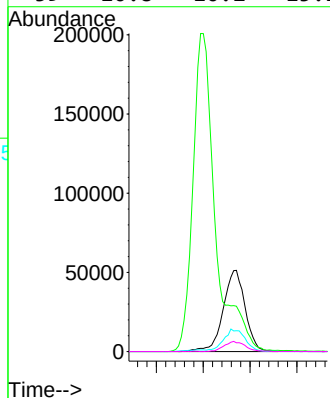
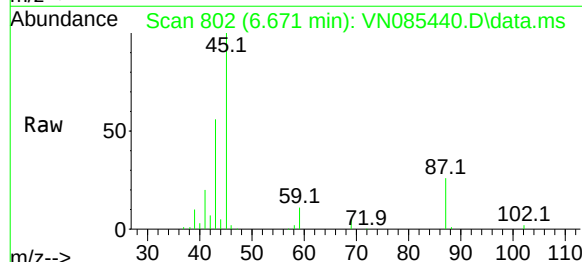
Ion Ratio Lower Upper

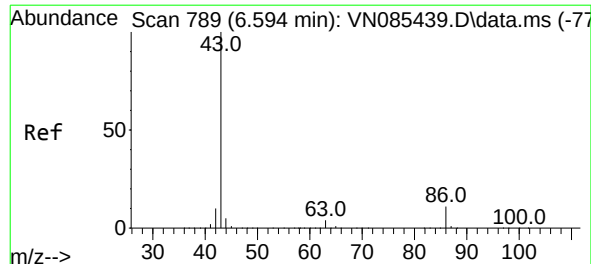
45 100

43 54.3 45.0 67.6

87 25.3 21.8 32.8

59 10.8 10.2 15.2





#23

Vinyl Acetate

Concen: 107.984 ug/l m

RT: 6.594 min Scan# 789

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 588567

Ion Ratio Lower Upper

43 100

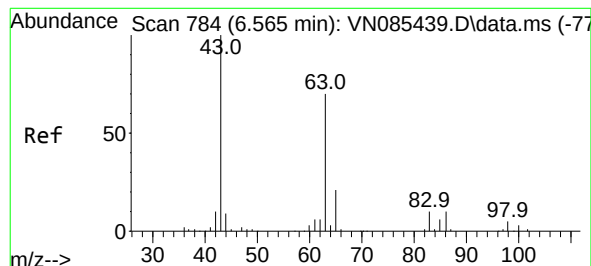
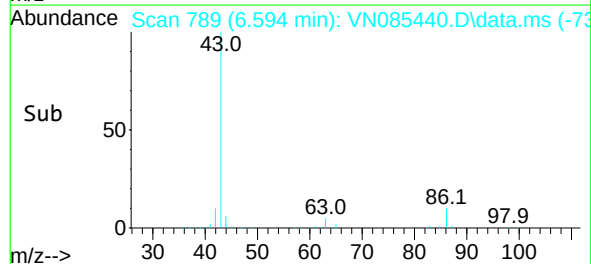
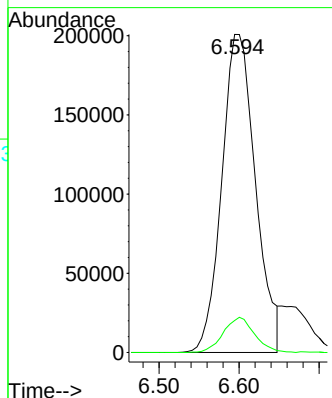
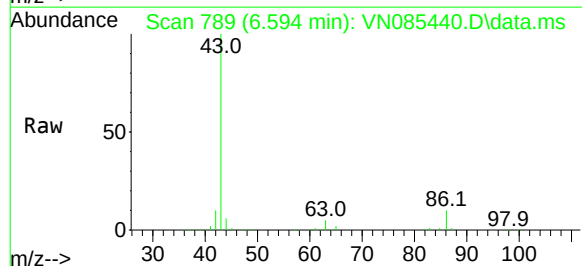
86 10.1 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#24

1,1-Dichloroethane

Concen: 20.469 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

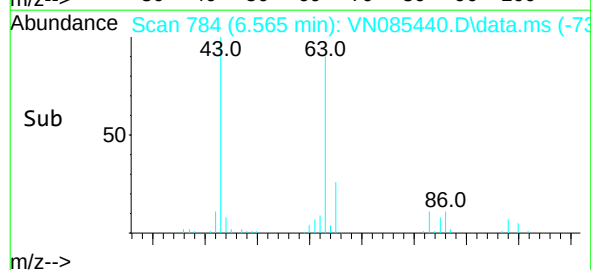
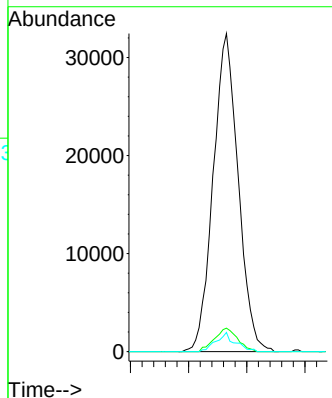
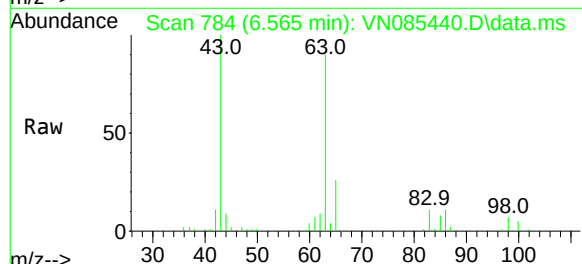
Tgt Ion: 63 Resp: 96875

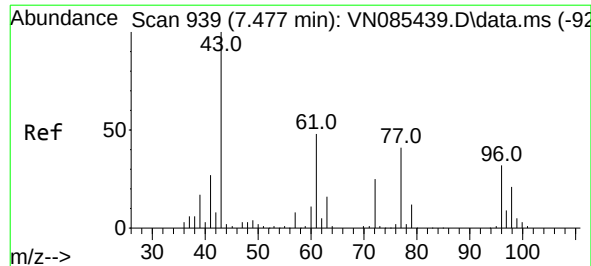
Ion Ratio Lower Upper

63 100

98 7.4 3.3 9.8

100 6.0 2.0 6.0#





#25

2-Butanone

Concen: 103.786 ug/l

RT: 7.477 min Scan# 93

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 159952

Ion Ratio Lower Upper

43 100

72 24.1 20.2 30.4

Instrument :

MSVOA_N

ClientSampleId :

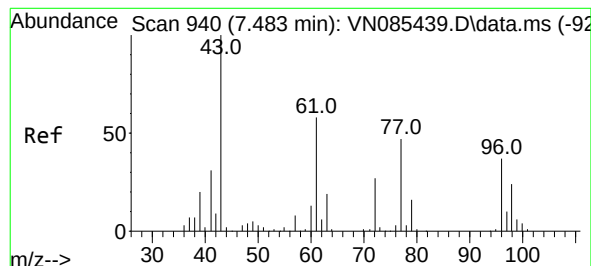
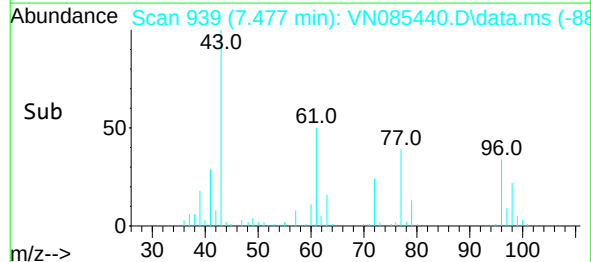
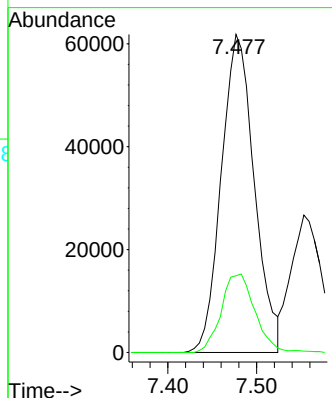
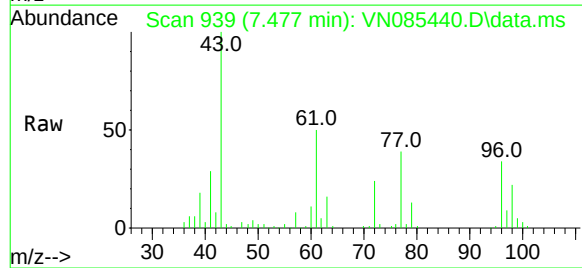
VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#26

2,2-Dichloropropane

Concen: 20.684 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085440.D

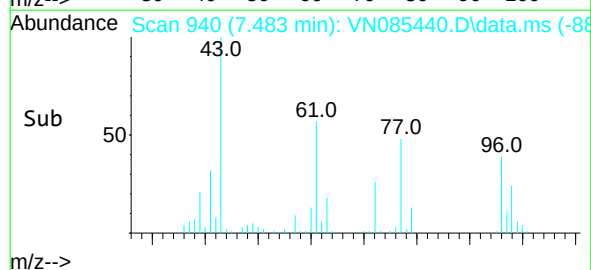
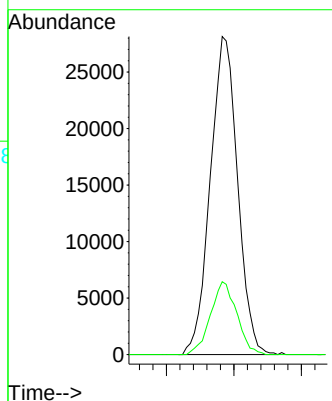
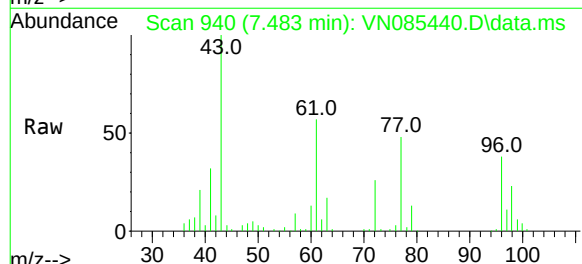
Acq: 14 Jan 2025 15:43

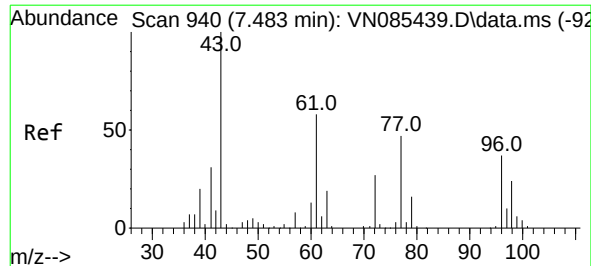
Tgt Ion: 77 Resp: 79145

Ion Ratio Lower Upper

77 100

97 22.0 10.7 32.1





#27

cis-1,2-Dichloroethene

Concen: 21.180 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 96 Resp: 57454

Ion Ratio Lower Upper

96 100

61 153.0 0.0 311.8

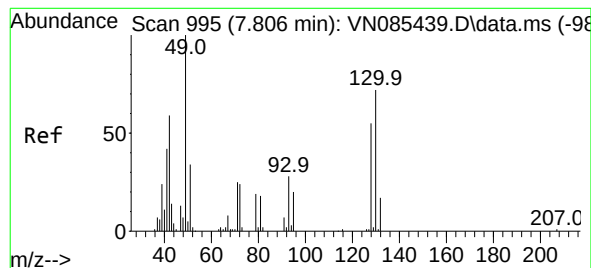
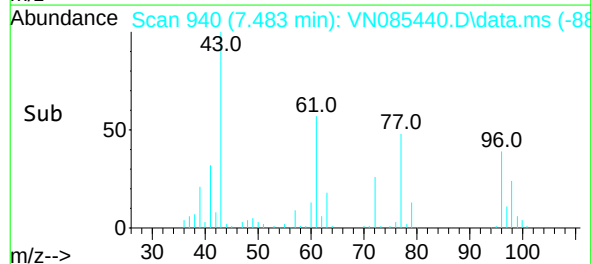
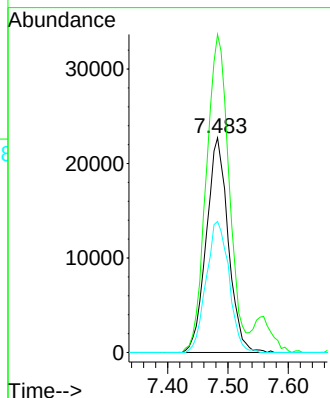
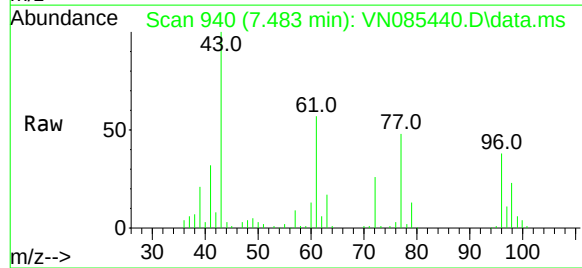
98 63.7 0.0 126.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#28

Bromochloromethane

Concen: 18.703 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

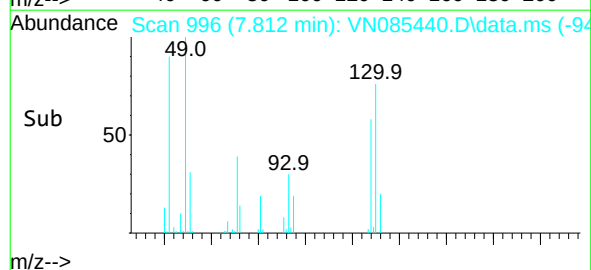
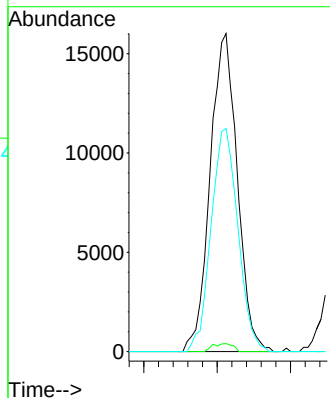
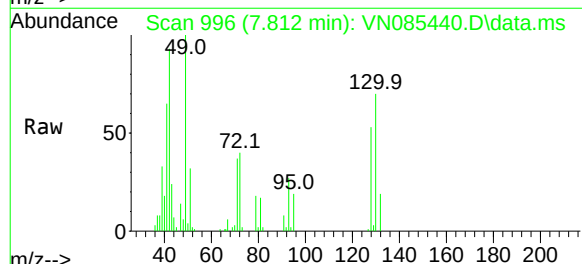
Tgt Ion: 49 Resp: 41181

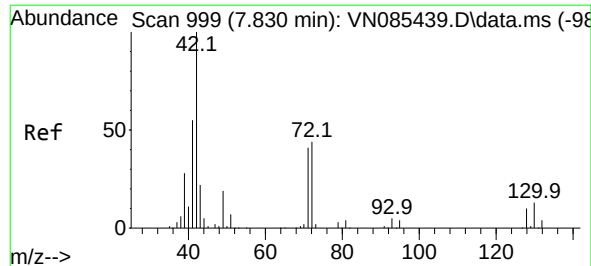
Ion Ratio Lower Upper

49 100

129 1.9 0.0 4.4

130 69.3 55.0 82.4





#29

Tetrahydrofuran

Concen: 107.247 ug/l

RT: 7.836 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 42 Resp: 104792

Ion Ratio Lower Upper

42 100

72 42.6 34.2 51.2

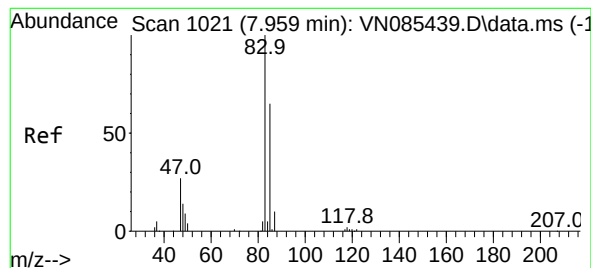
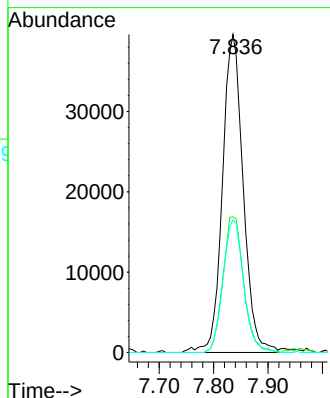
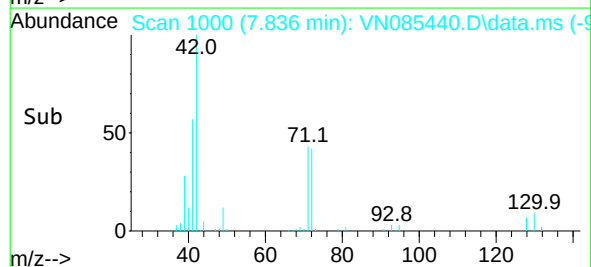
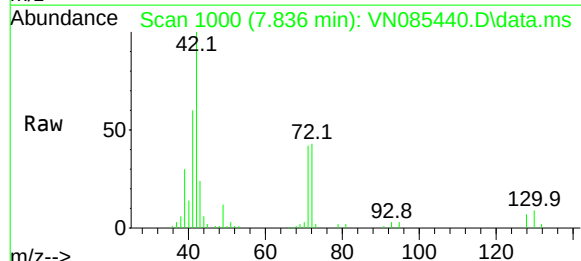
71 41.4 32.5 48.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#30

Chloroform

Concen: 20.374 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. 0.000 min

Lab File: VN085440.D

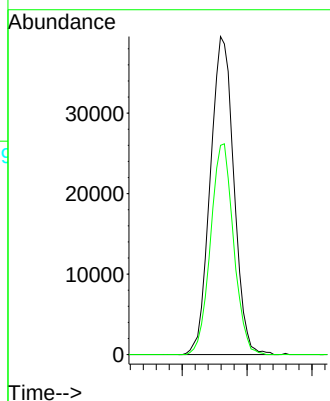
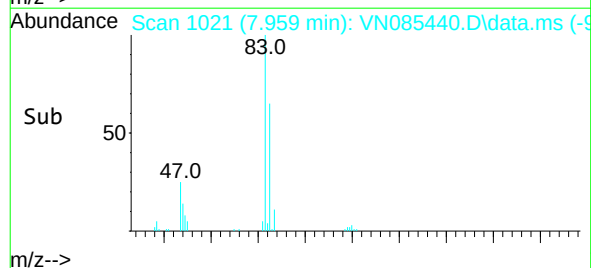
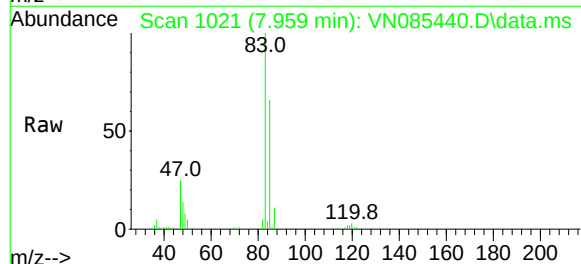
Acq: 14 Jan 2025 15:43

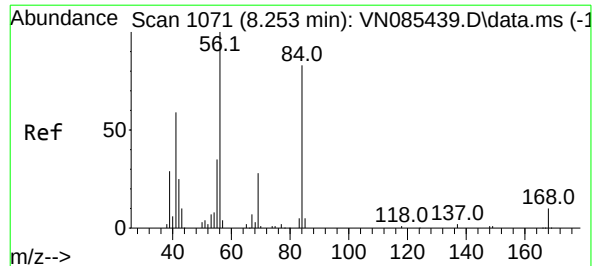
Tgt Ion: 83 Resp: 99655

Ion Ratio Lower Upper

83 100

85 65.8 51.8 77.6





#31

Cyclohexane

Concen: 20.173 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 56 Resp: 82980

Ion Ratio Lower Upper

56 100

69 31.2 22.2 33.4

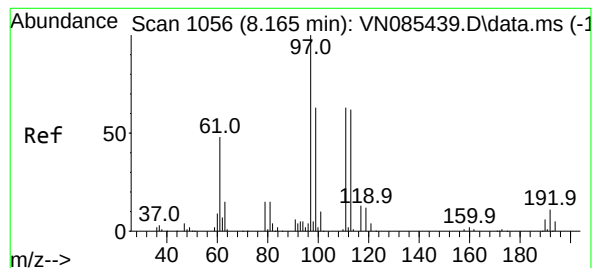
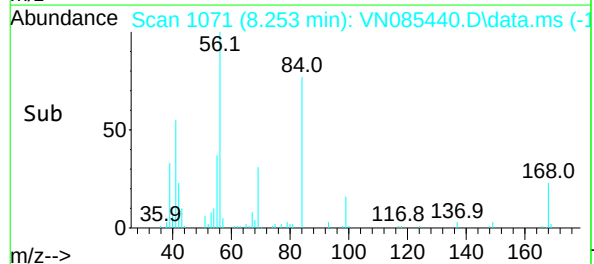
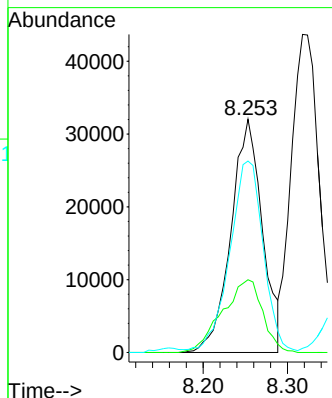
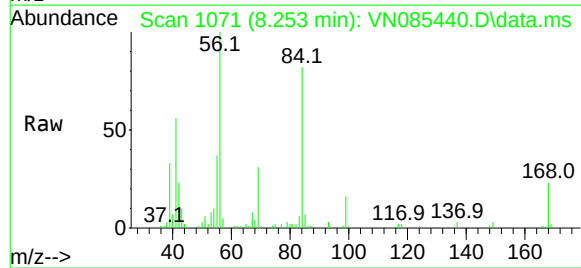
84 80.8 66.4 99.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#32

1,1,1-Trichloroethane

Concen: 20.431 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

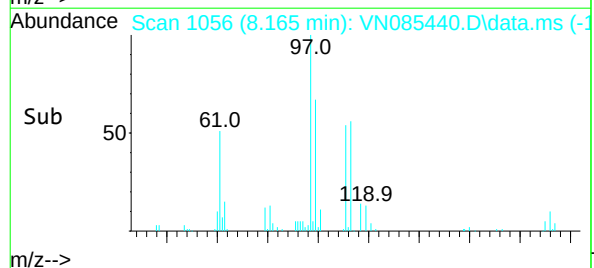
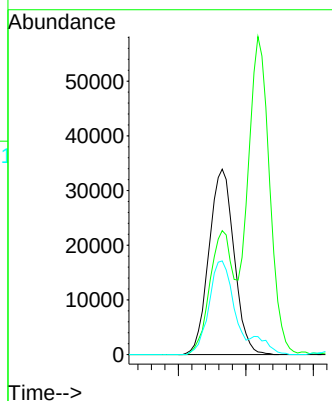
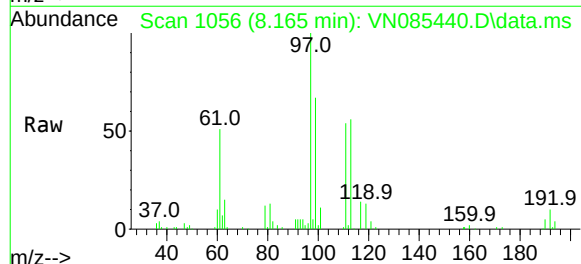
Tgt Ion: 97 Resp: 87659

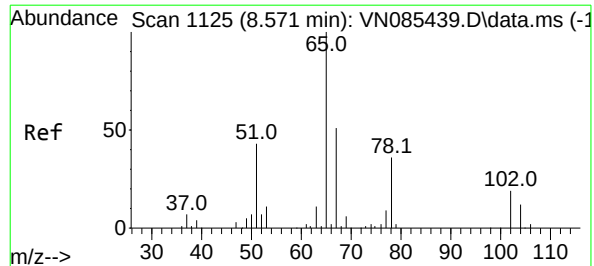
Ion Ratio Lower Upper

97 100

99 64.2 49.8 74.6

61 50.3 41.4 62.2





#33

1,2-Dichloroethane-d4

Concen: 18.694 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 65 Resp: 60593

Ion Ratio Lower Upper

65 100

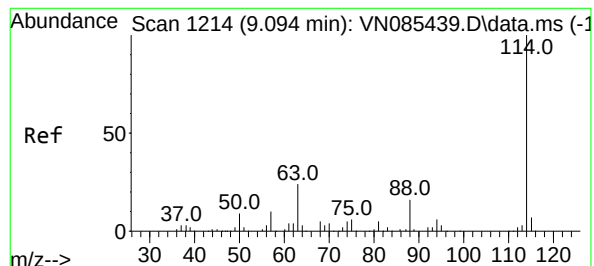
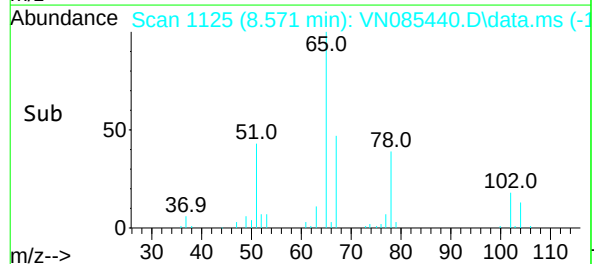
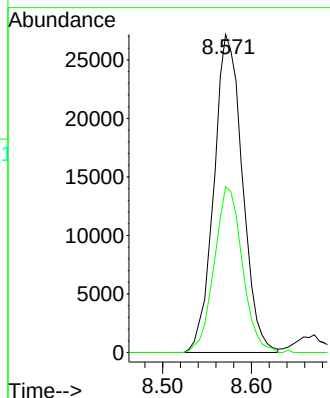
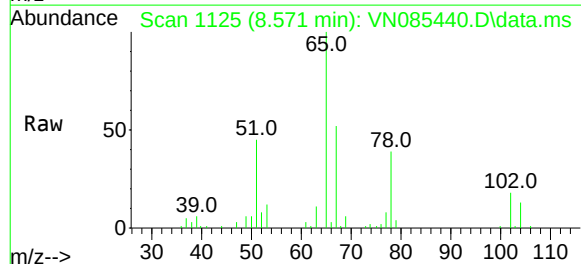
67 51.2 0.0 101.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

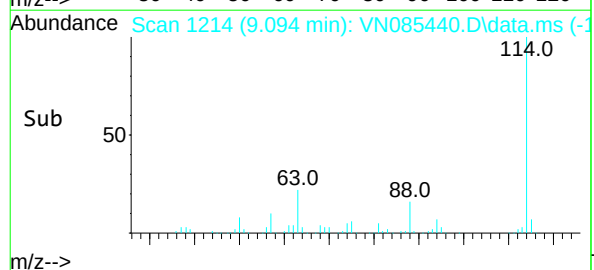
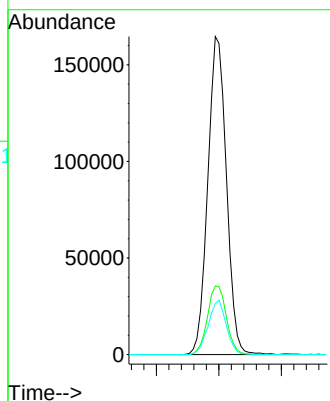
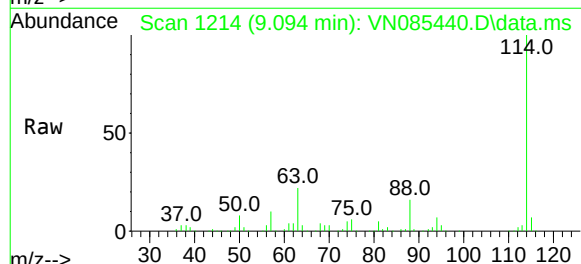
Tgt Ion:114 Resp: 340593

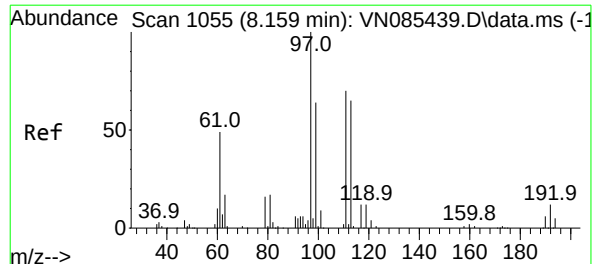
Ion Ratio Lower Upper

114 100

63 21.6 0.0 47.6

88 16.0 0.0 32.6





#35

Dibromofluoromethane

Concen: 19.322 ug/l

RT: 8.165 min Scan# 1055

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 113 Resp: 45655

Ion Ratio Lower Upper

113 100

111 100.6 82.7 124.1

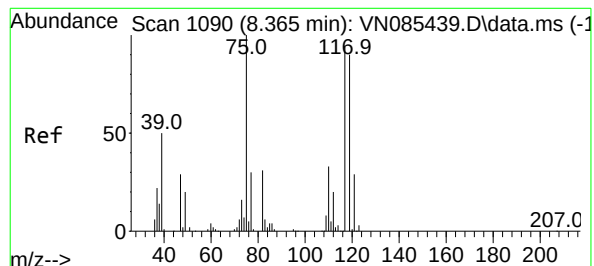
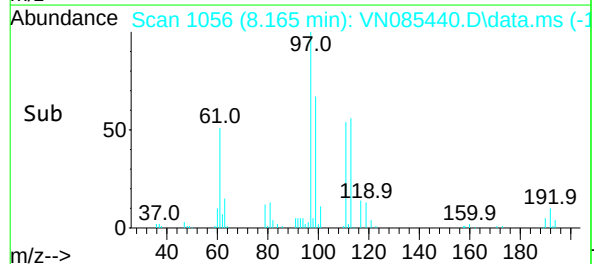
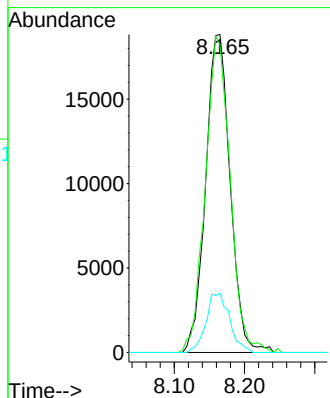
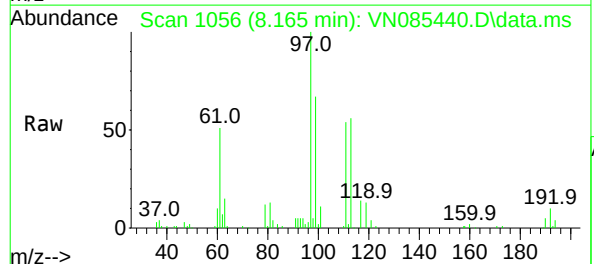
192 17.9 14.3 21.5

Manual Integrations

APPROVED

Reviewed By : John Carlone 01/15/2025

Supervised By : Mahesh Dadoda 01/15/2025



#36

1,1-Dichloropropene

Concen: 20.490 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

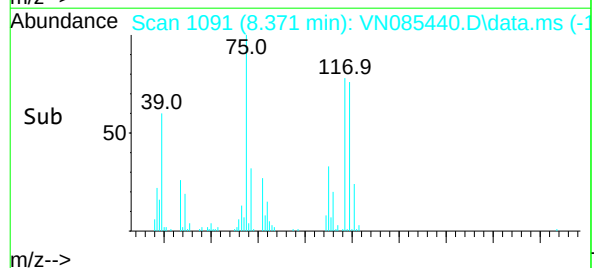
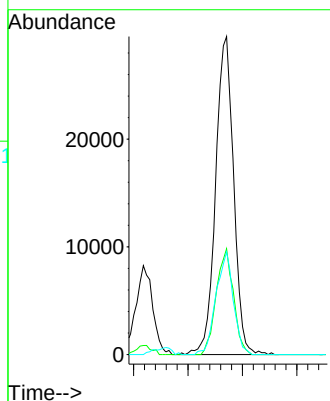
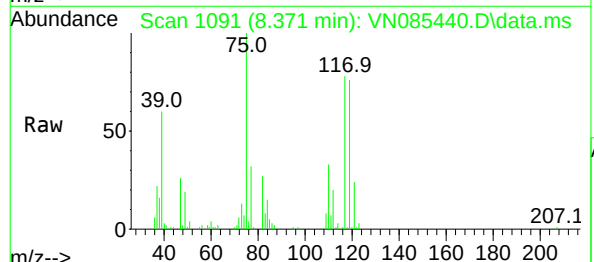
Tgt Ion: 75 Resp: 67949

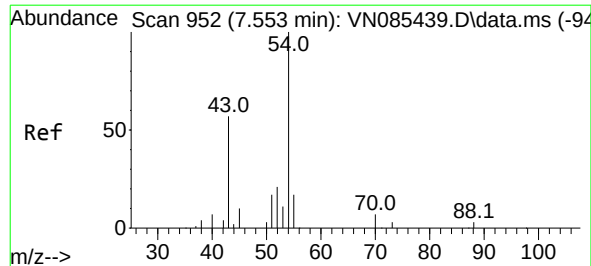
Ion Ratio Lower Upper

75 100

110 31.8 16.5 49.5

77 31.1 24.4 36.6





#37

Ethyl Acetate

Concen: 19.850 ug/l

RT: 7.553 min Scan# 952

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 66443

Ion Ratio Lower Upper

43 100

61 11.9 10.9 16.3

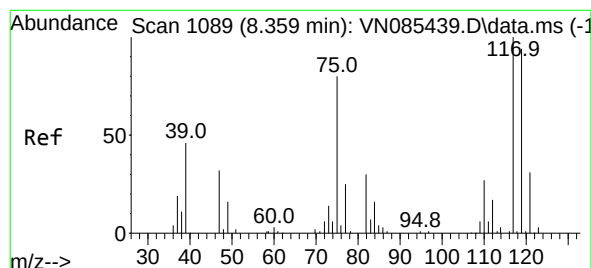
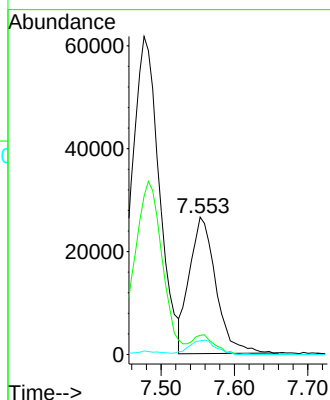
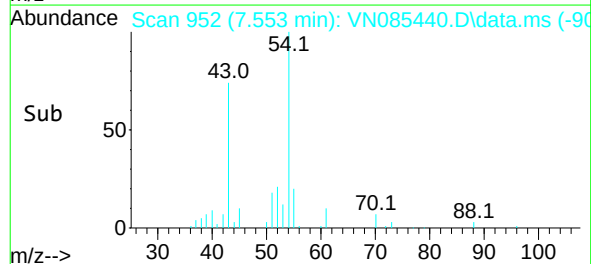
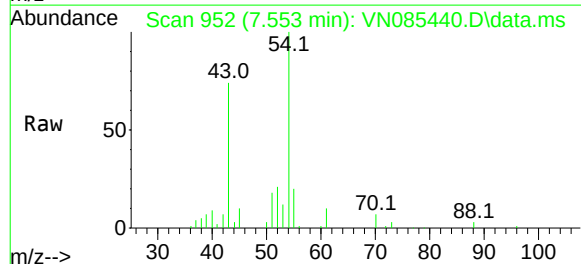
70 10.6 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#38

Carbon Tetrachloride

Concen: 20.767 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

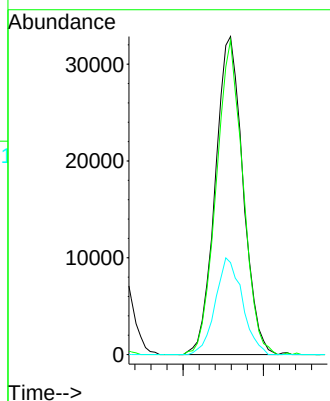
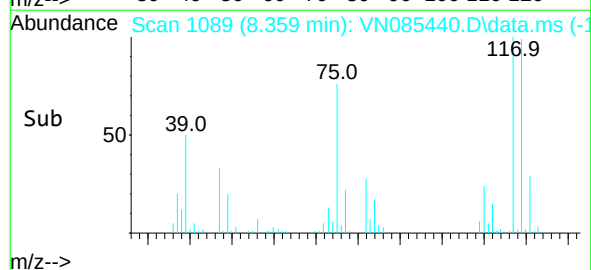
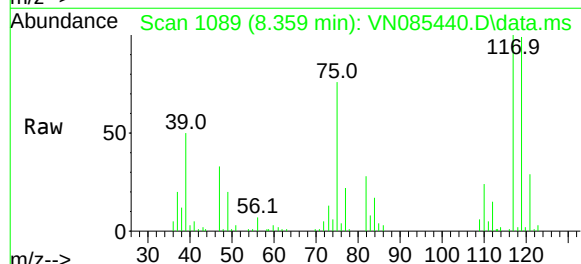
Tgt Ion:117 Resp: 78842

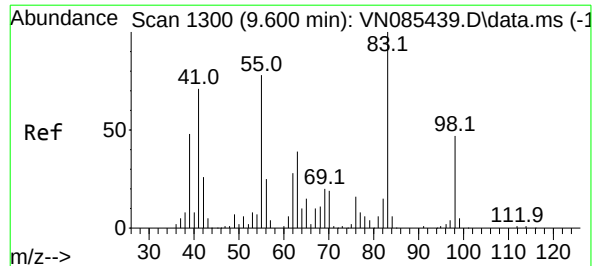
Ion Ratio Lower Upper

117 100

119 98.9 75.4 113.2

121 28.9 24.6 37.0





#39

Methylcyclohexane

Concen: 20.862 ug/l

RT: 9.594 min Scan# 12

Delta R.T. -0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

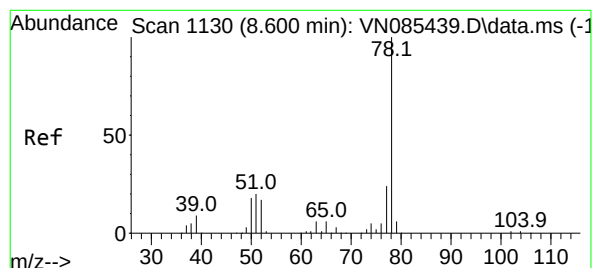
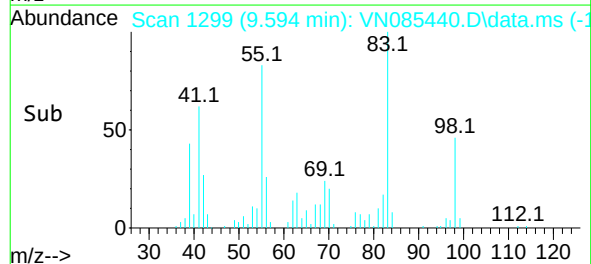
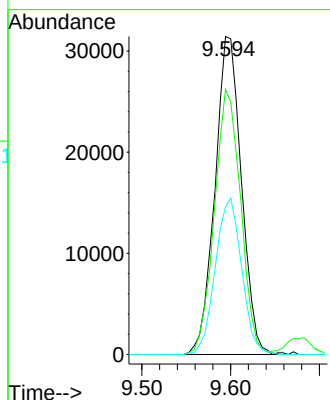
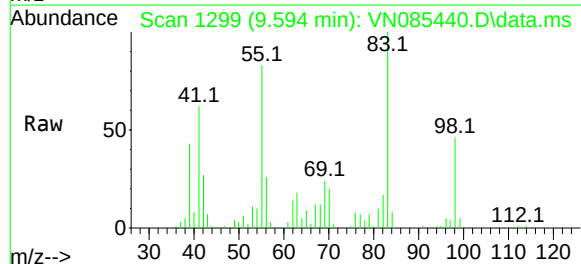
ClientSampleId :

VSTDIC020

Tgt Ion:	83	Resp:	65012
Ion Ratio	Lower	Upper	
83	100		
55	83.4	62.6	94.0
98	46.4	37.7	56.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#40

Benzene

Concen: 20.873 ug/l

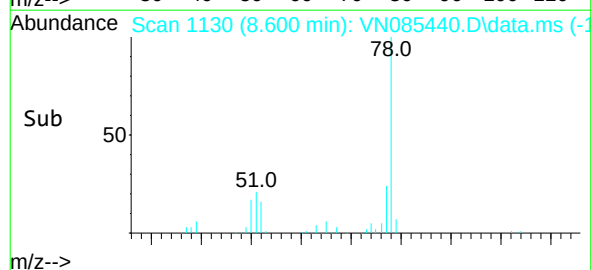
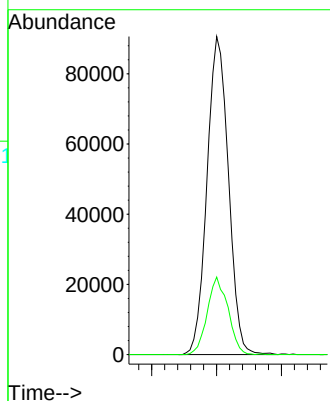
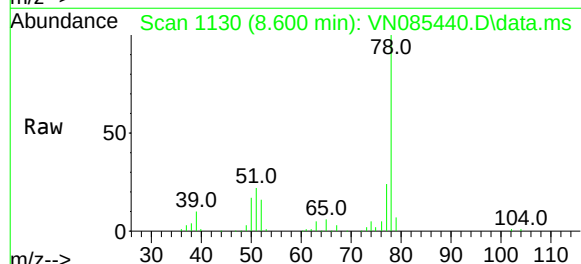
RT: 8.600 min Scan# 1130

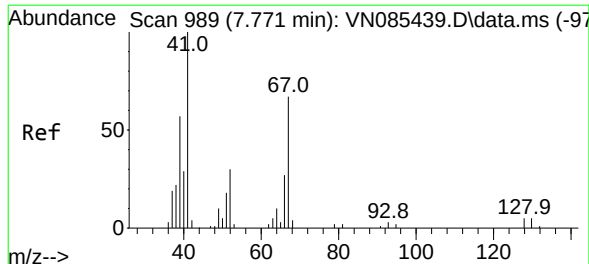
Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion:	78	Resp:	207985
Ion Ratio	Lower	Upper	
78	100		
77	24.4	19.0	28.6





#41

Methacrylonitrile

Concen: 21.004 ug/l

RT: 7.771 min Scan# 989

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 41 Resp: 36578

Ion Ratio Lower Upper

41 100

39 56.6 46.0 69.0

67 70.3 57.4 86.2

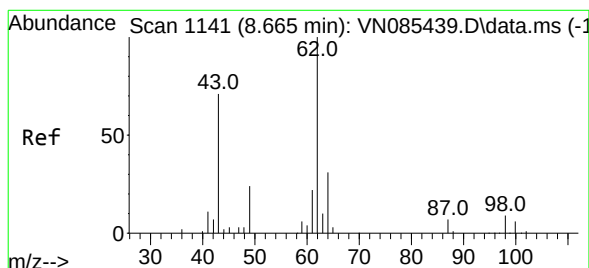
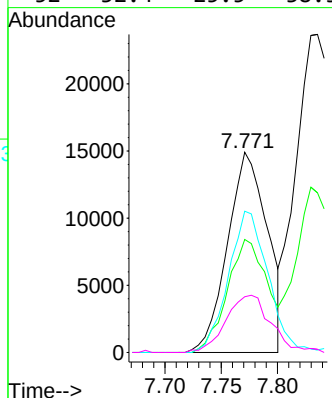
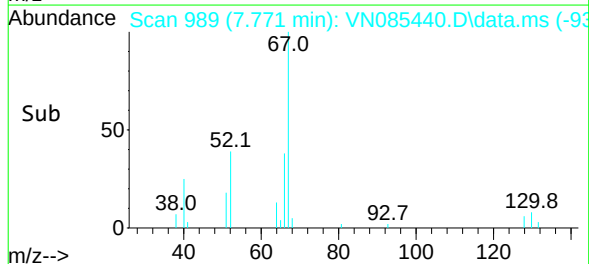
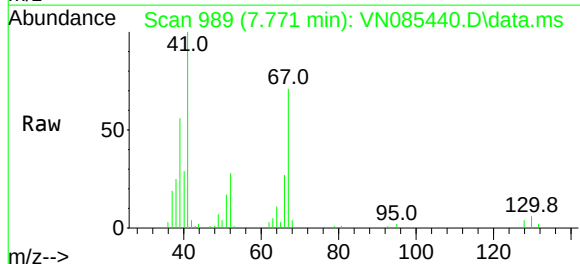
52 32.4 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#42

1,2-Dichloroethane

Concen: 20.891 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. 0.000 min

Lab File: VN085440.D

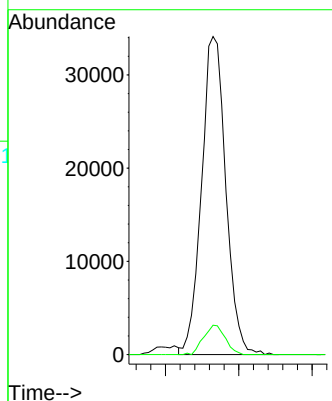
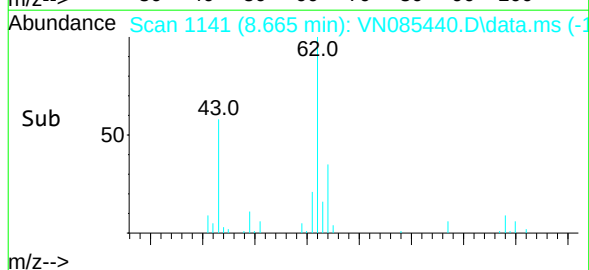
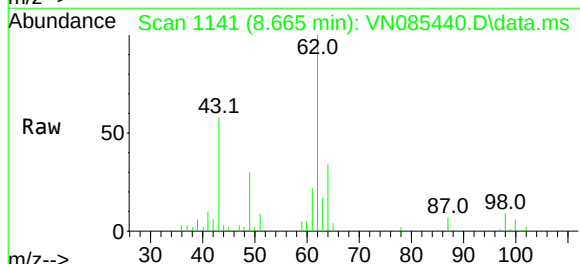
Acq: 14 Jan 2025 15:43

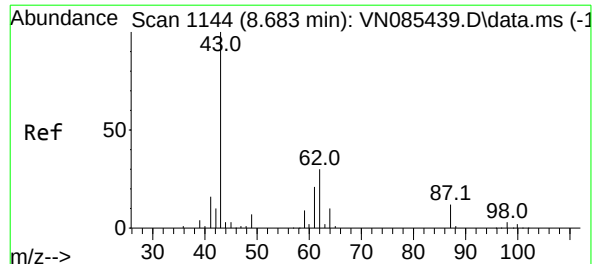
Tgt Ion: 62 Resp: 78402

Ion Ratio Lower Upper

62 100

98 8.3 0.0 17.0





#43

Isopropyl Acetate

Concen: 20.347 ug/l

RT: 8.683 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 109131

Ion Ratio Lower Upper

43 100

61 27.2 20.7 31.1

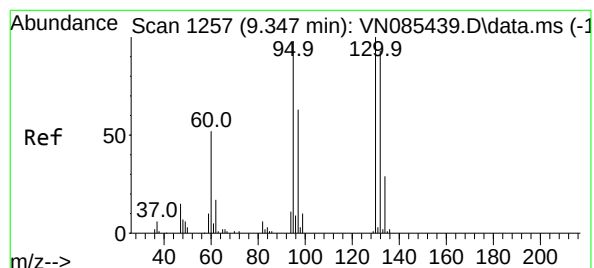
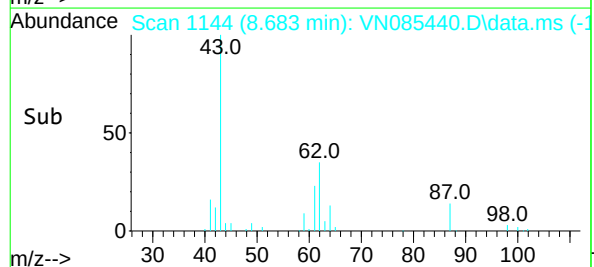
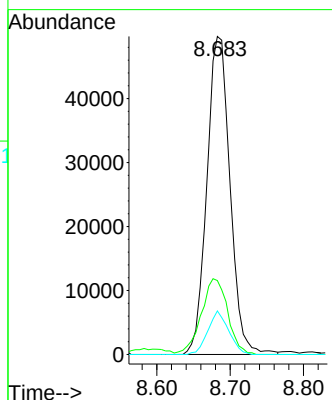
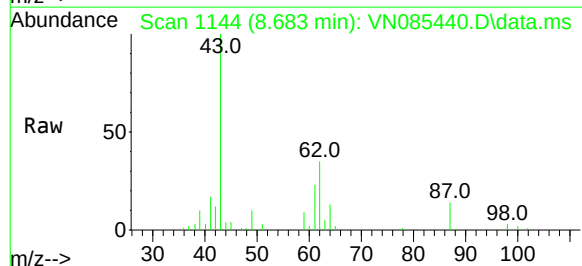
87 12.3 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#44

Trichloroethene

Concen: 20.699 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN085440.D

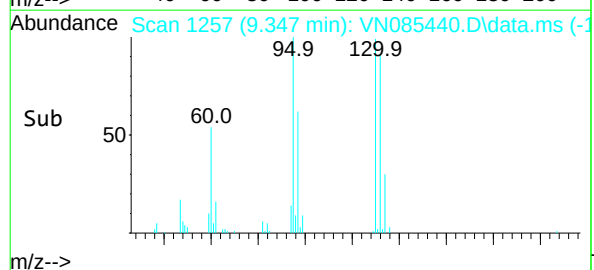
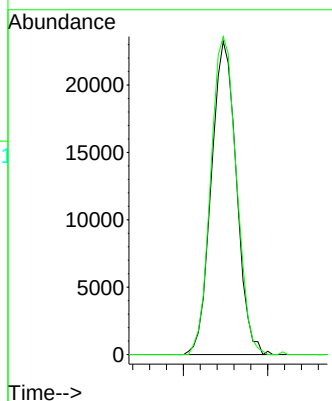
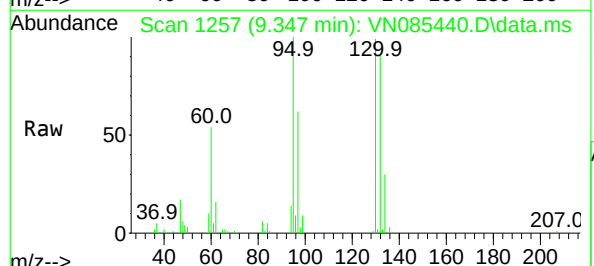
Acq: 14 Jan 2025 15:43

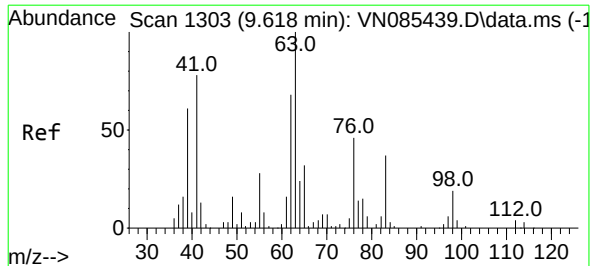
Tgt Ion:130 Resp: 48009

Ion Ratio Lower Upper

130 100

95 101.5 0.0 195.8





#45

1,2-Dichloropropane

Concen: 20.758 ug/l

RT: 9.618 min Scan# 13

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 52833

Ion Ratio Lower Upper

63 100

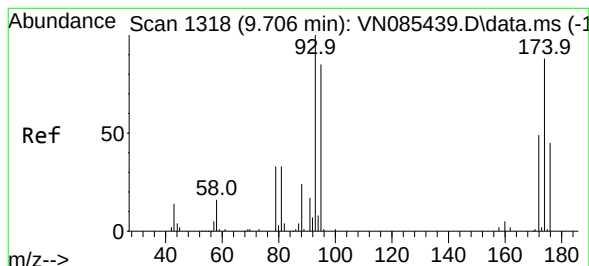
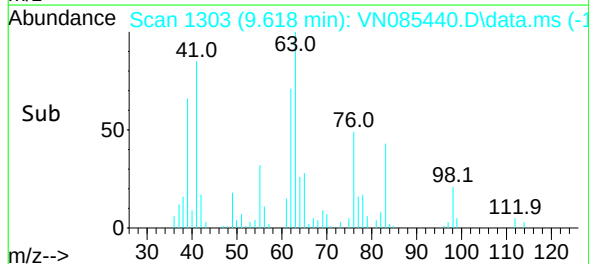
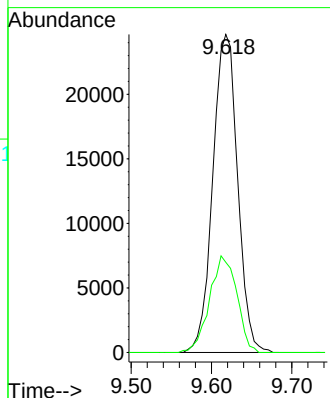
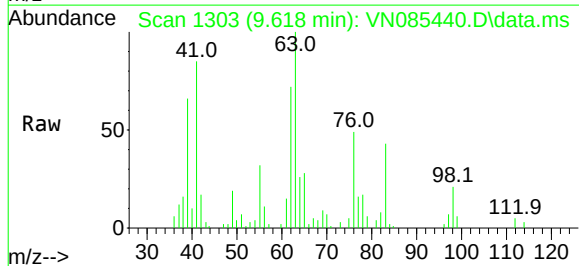
65 28.3 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#46

Dibromomethane

Concen: 20.540 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. -0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

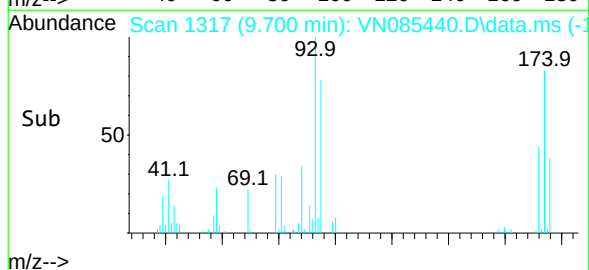
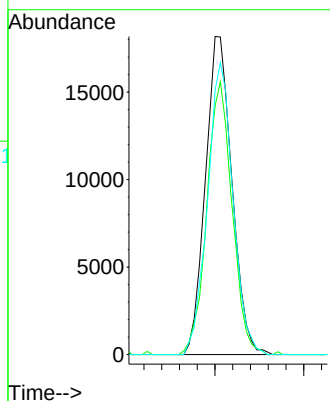
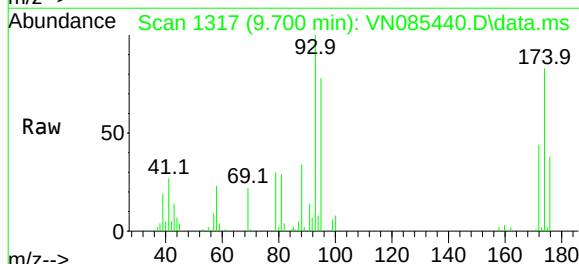
Tgt Ion: 93 Resp: 37721

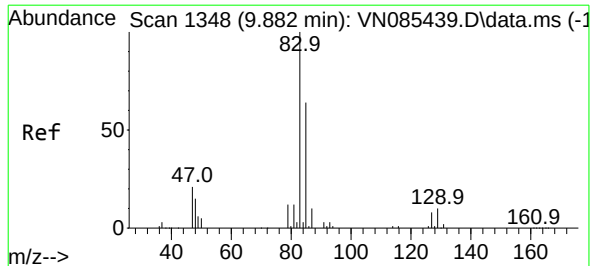
Ion Ratio Lower Upper

93 100

95 82.0 64.7 97.1

174 88.4 69.0 103.4





#47

Bromodichloromethane

Concen: 21.093 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

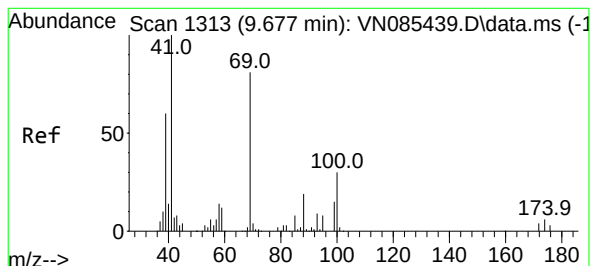
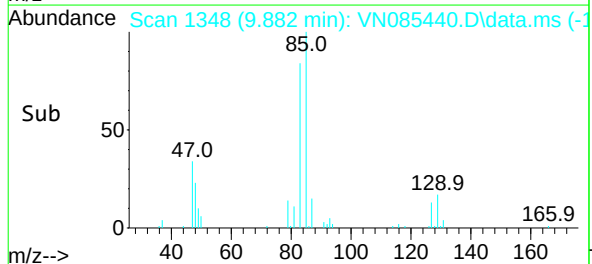
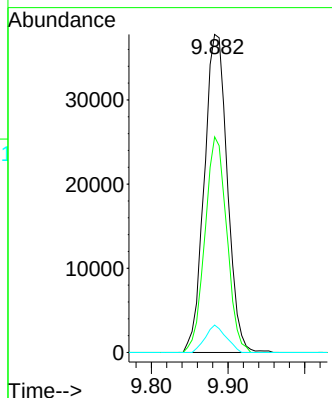
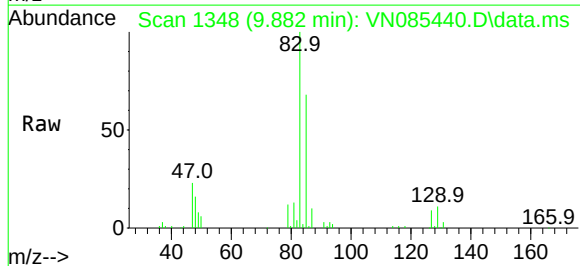
ClientSampleId :

VSTDIC020

Tgt Ion:	83	Resp:	78918
Ion	Ratio	Lower	Upper
83	100		
85	67.8	51.2	76.8
127	8.6	6.5	9.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#48

Methyl methacrylate

Concen: 20.808 ug/l

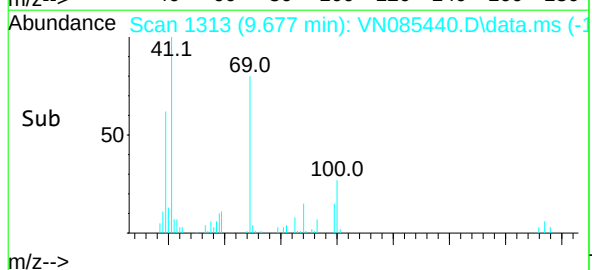
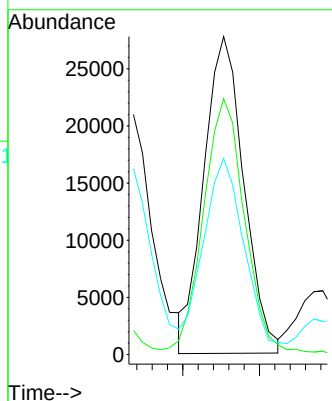
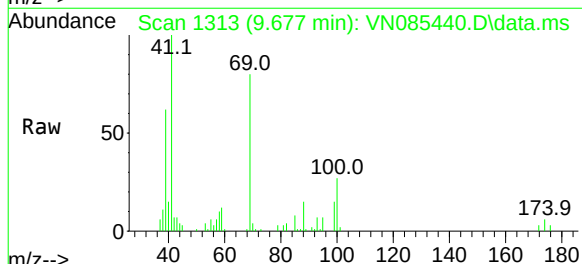
RT: 9.677 min Scan# 1313

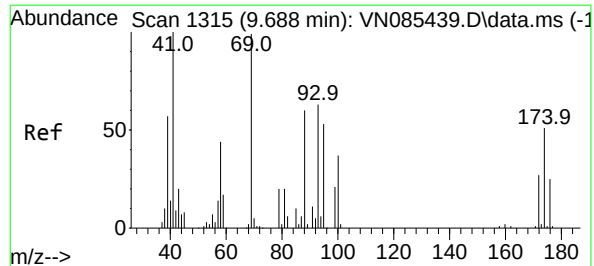
Delta R.T. -0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion:	41	Resp:	50224
Ion	Ratio	Lower	Upper
41	100		
69	84.3	64.7	97.1
39	64.2	49.0	73.6





#49

1,4-Dioxane

Concen: 421.686 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 88 Resp: 17140

Ion Ratio Lower Upper

88 100

43 34.9 26.6 39.8

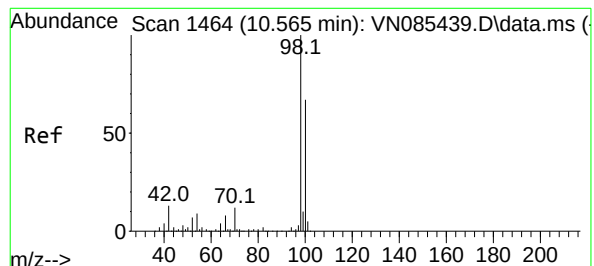
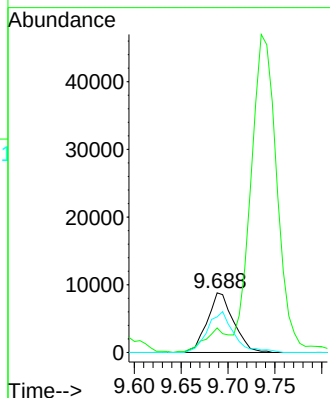
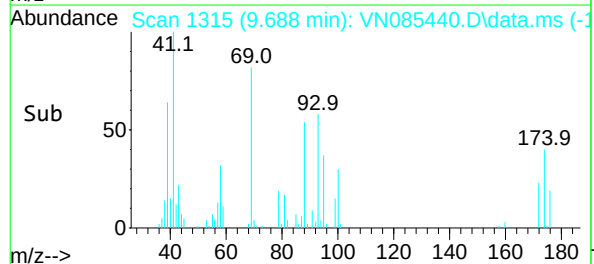
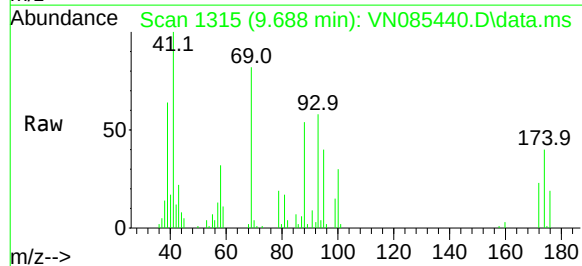
58 69.0 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#50

Toluene-d8

Concen: 19.581 ug/l

RT: 10.559 min Scan# 1463

Delta R.T. -0.006 min

Lab File: VN085440.D

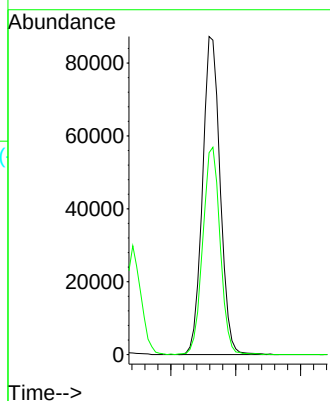
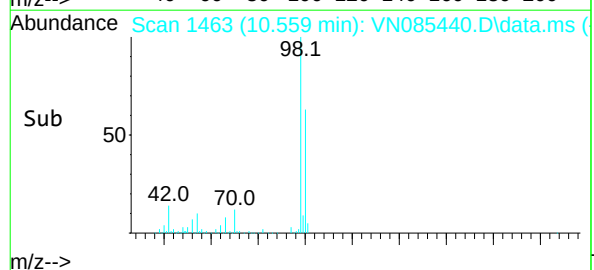
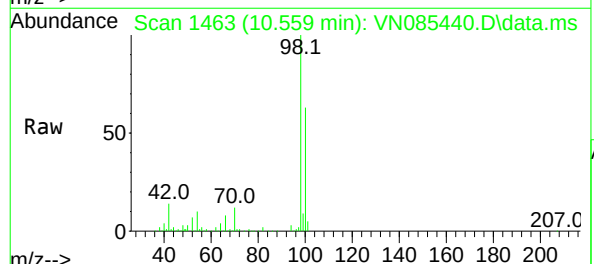
Acq: 14 Jan 2025 15:43

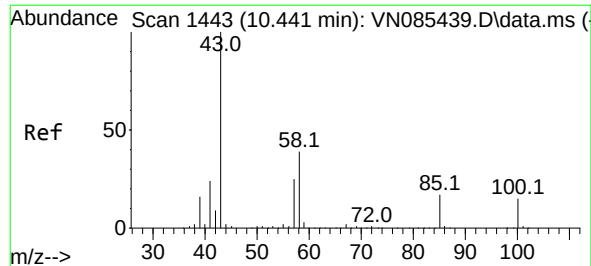
Tgt Ion: 98 Resp: 164391

Ion Ratio Lower Upper

98 100

100 64.4 52.2 78.4





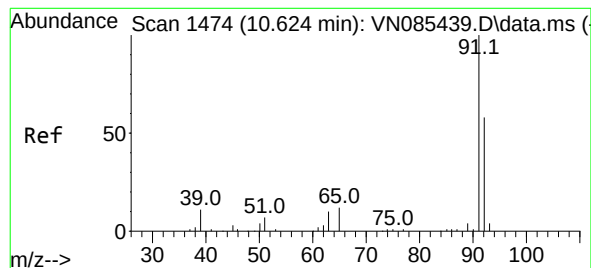
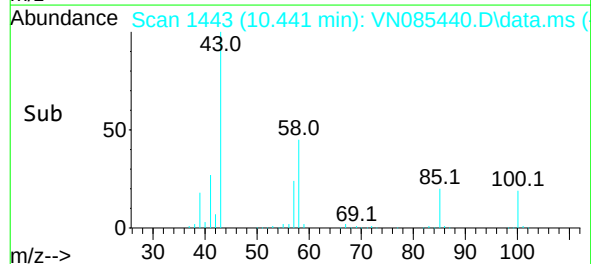
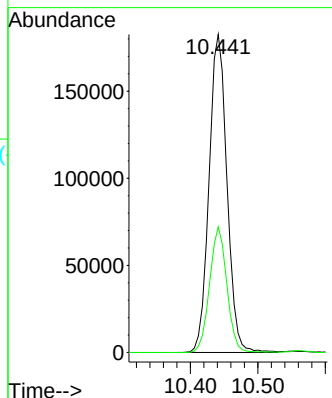
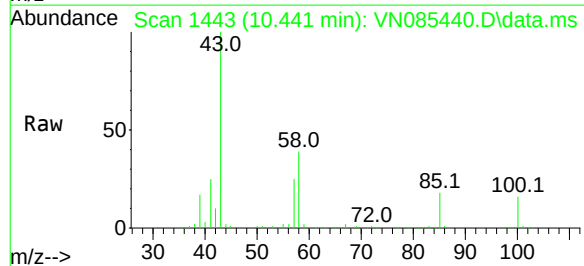
#51
4-Methyl-2-Pentanone
Concen: 108.249 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 43 Resp: 336911
Ion Ratio Lower Upper
43 100
58 38.1 30.5 45.7

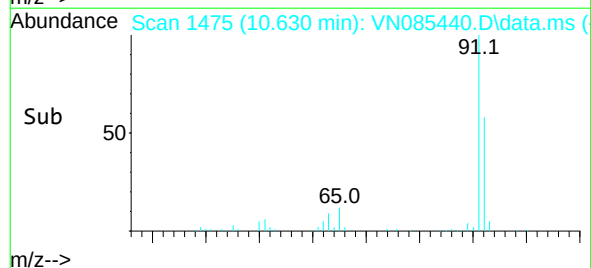
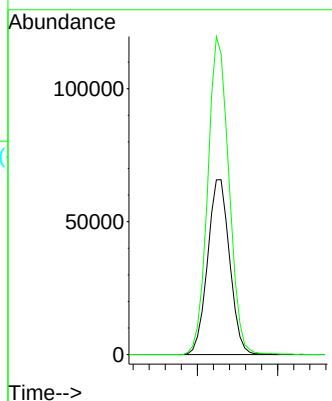
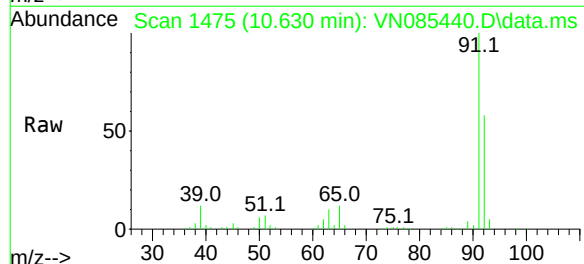
Manual Integrations
APPROVED

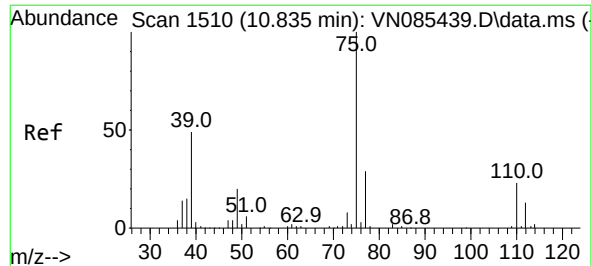
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#52
Toluene
Concen: 21.680 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 92 Resp: 125172
Ion Ratio Lower Upper
92 100
91 175.1 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 20.965 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 75 Resp: 74129

Ion Ratio Lower Upper

75 100

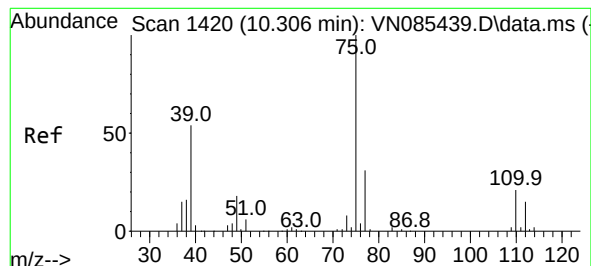
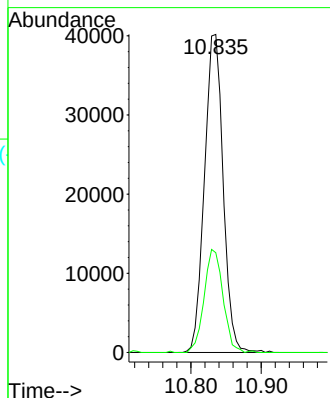
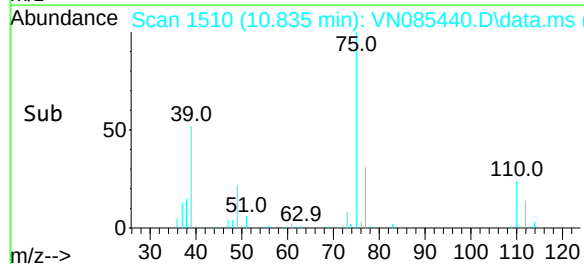
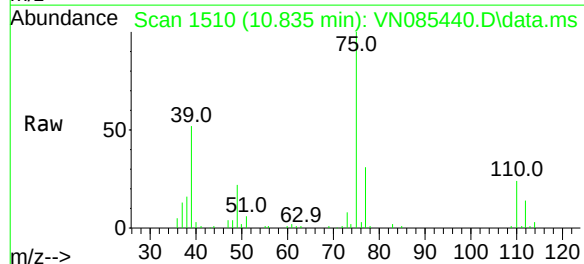
77 31.4 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#54

cis-1,3-Dichloropropene

Concen: 21.684 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. -0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

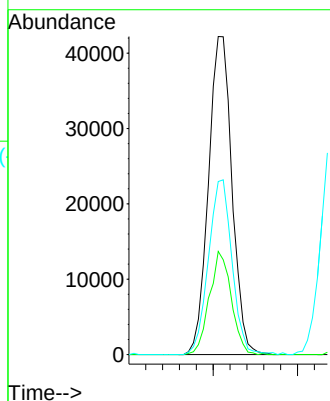
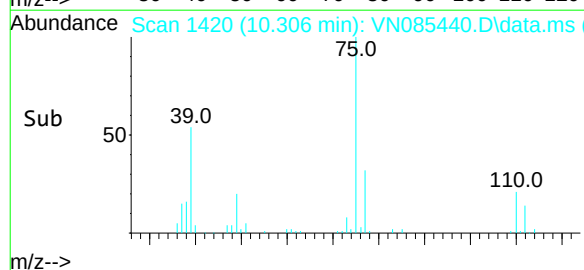
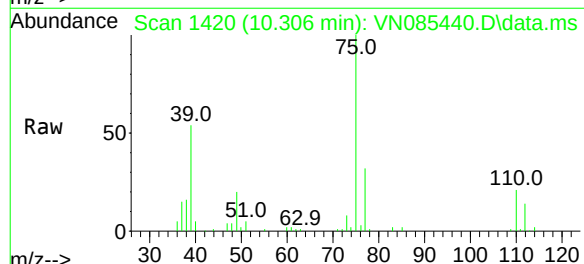
Tgt Ion: 75 Resp: 81897

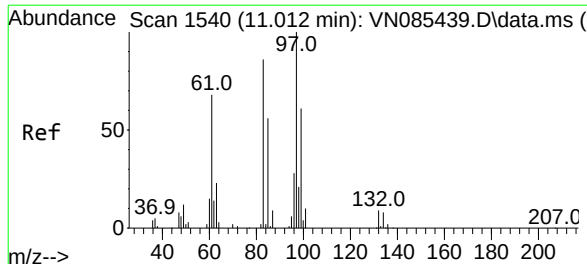
Ion Ratio Lower Upper

75 100

77 32.4 25.0 37.4

39 54.4 43.1 64.7





#55

1,1,2-Trichloroethane

Concen: 21.025 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 97 Resp: 48039

Ion Ratio Lower Upper

97 100

83 84.1 69.0 103.6

85 54.6 44.6 66.8

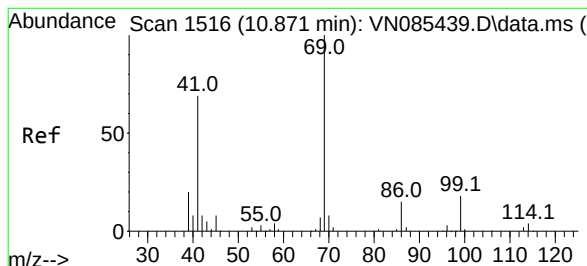
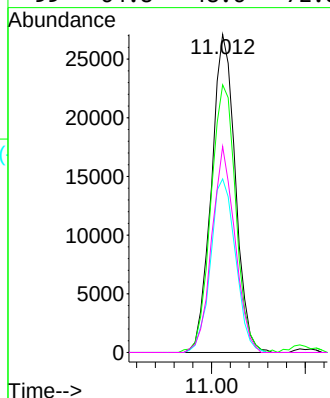
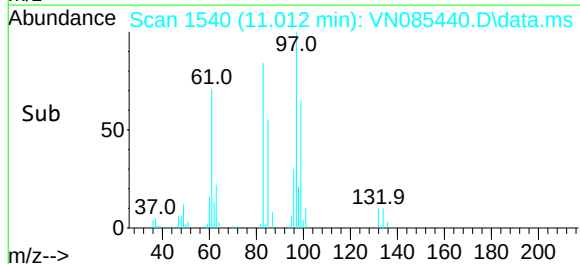
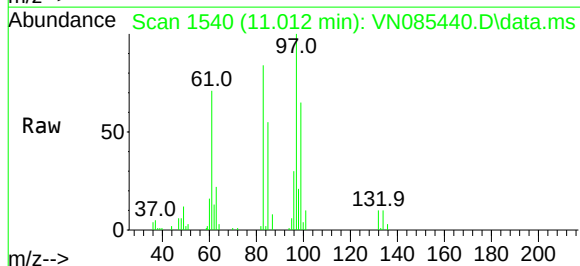
99 64.8 48.6 72.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#56

Ethyl methacrylate

Concen: 19.649 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

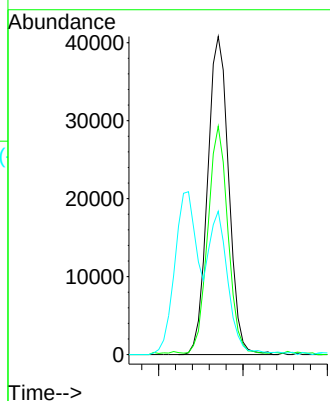
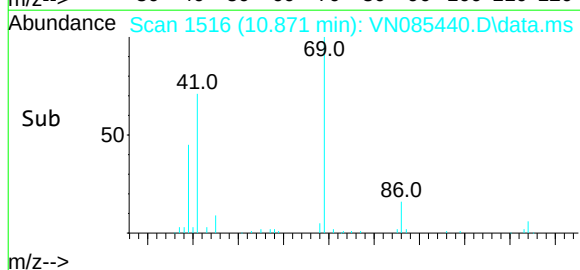
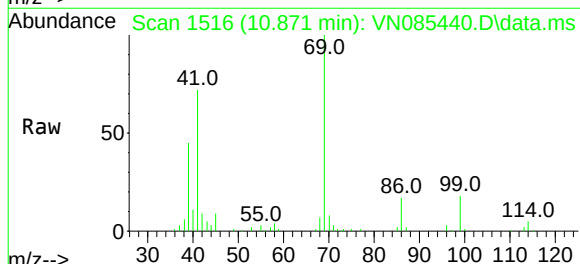
Tgt Ion: 69 Resp: 70934

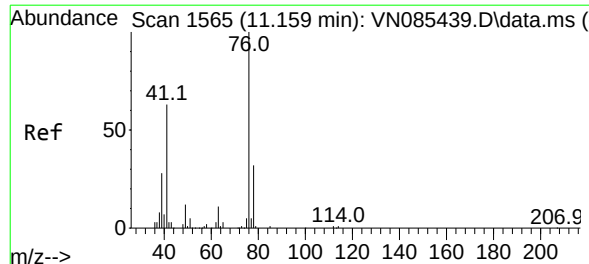
Ion Ratio Lower Upper

69 100

41 67.6 54.6 82.0

39 41.7 32.4 48.6





#57

1,3-Dichloropropane

Concen: 21.196 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 84210

Ion Ratio Lower Upper

76 100

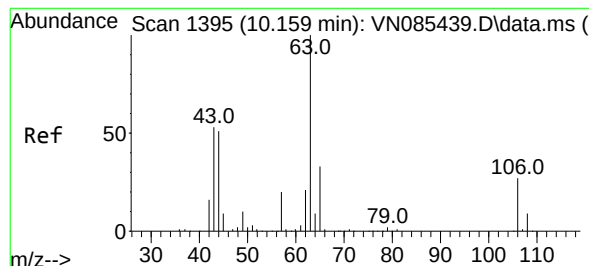
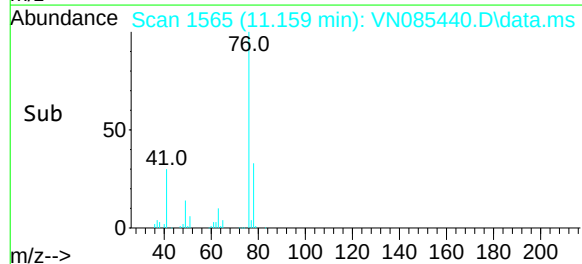
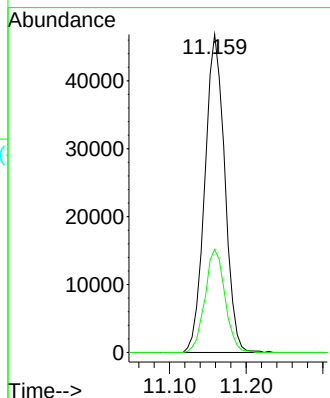
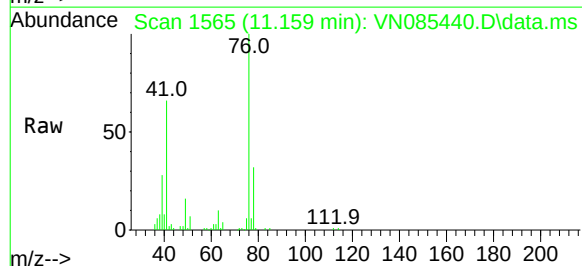
78 32.7 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#58

2-Chloroethyl Vinyl ether

Concen: 105.991 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN085440.D

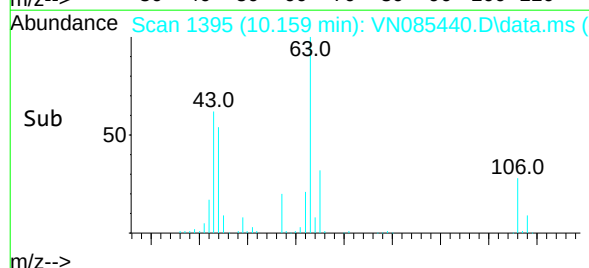
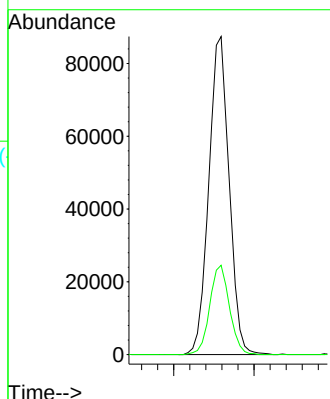
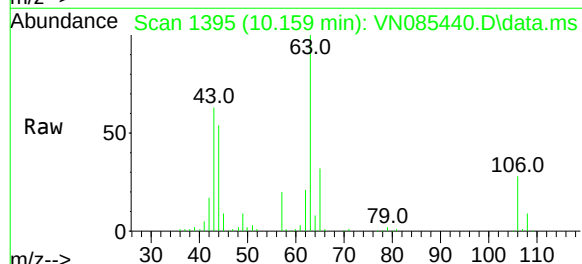
Acq: 14 Jan 2025 15:43

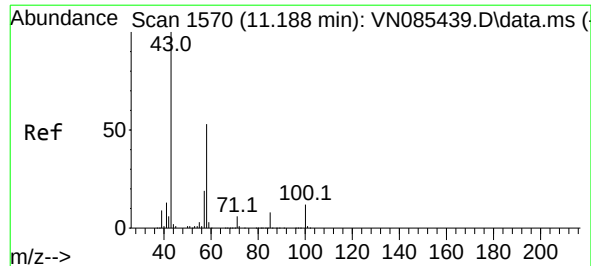
Tgt Ion: 63 Resp: 153681

Ion Ratio Lower Upper

63 100

106 27.2 21.6 32.4





#59

2-Hexanone

Concen: 109.863 ug/l

RT: 11.194 min Scan# 1570

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 240595

Ion Ratio Lower Upper

43 100

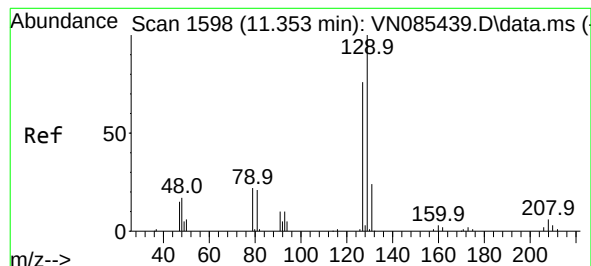
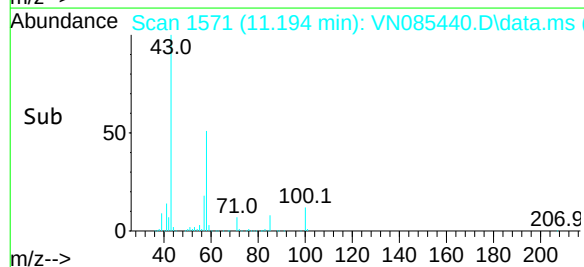
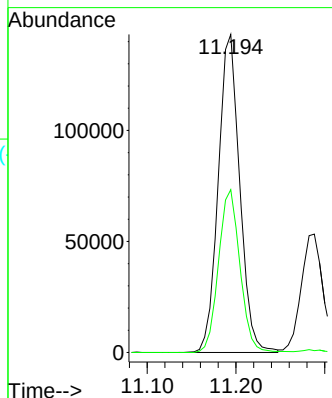
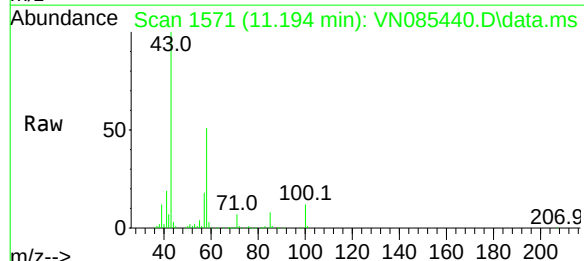
58 51.1 26.2 78.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#60

Dibromochloromethane

Concen: 20.326 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. 0.000 min

Lab File: VN085440.D

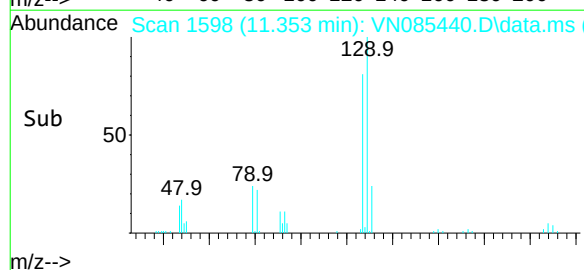
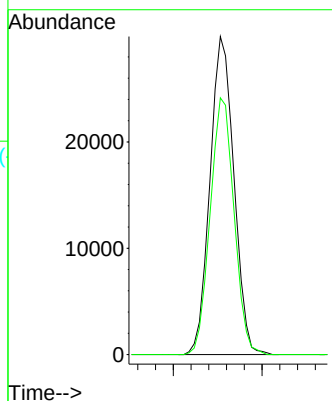
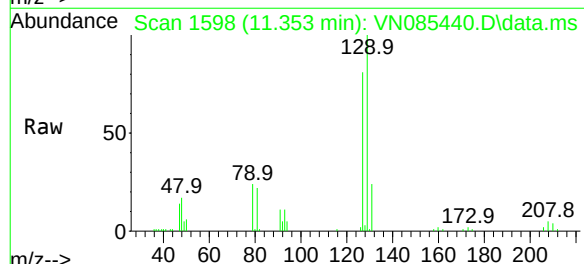
Acq: 14 Jan 2025 15:43

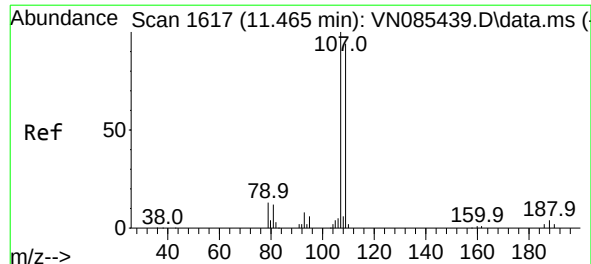
Tgt Ion:129 Resp: 56069

Ion Ratio Lower Upper

129 100

127 80.4 38.6 115.8





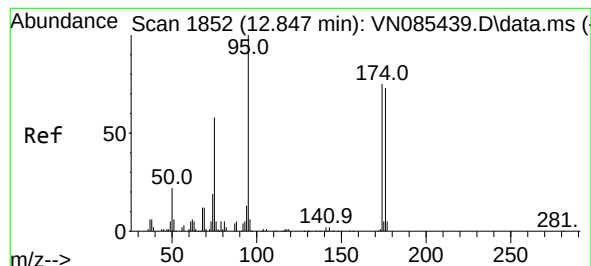
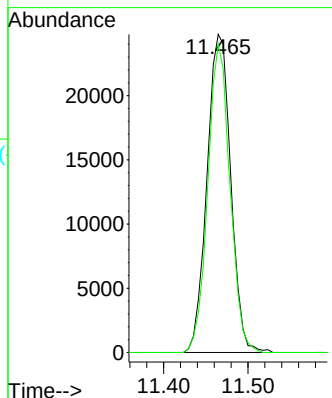
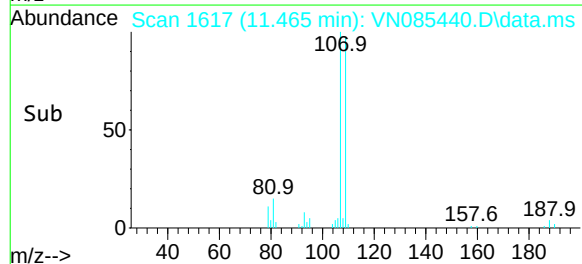
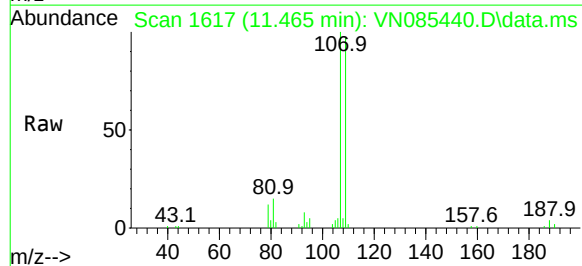
#61
1,2-Dibromoethane
Concen: 21.309 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 107 Resp: 48465
Ion Ratio Lower Upper
107 100
109 90.6 75.9 113.9

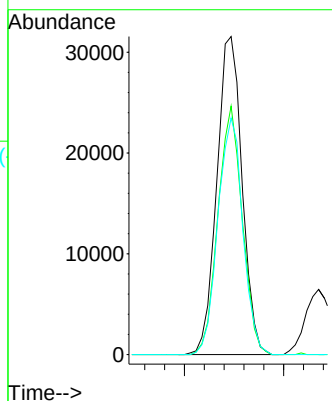
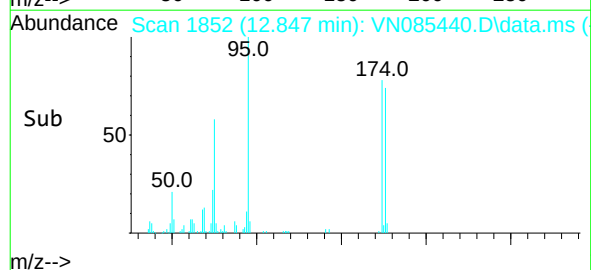
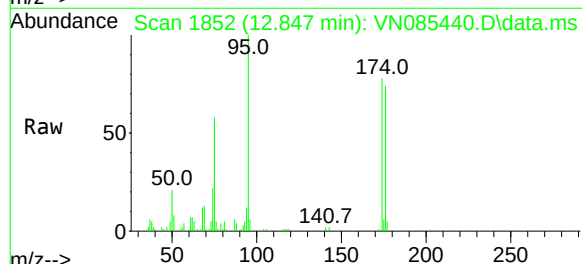
Manual Integrations
APPROVED

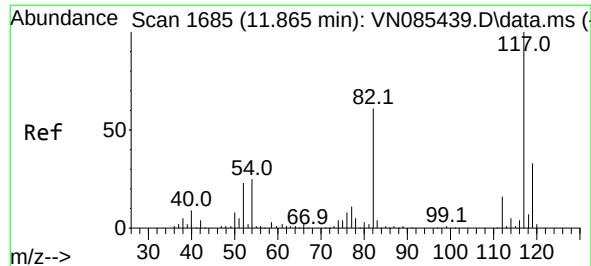
Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



#62
4-Bromofluorobenzene
Concen: 19.430 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 95 Resp: 55798
Ion Ratio Lower Upper
95 100
174 75.2 0.0 145.0
176 73.2 0.0 142.4





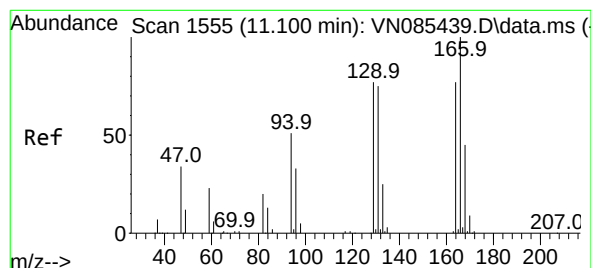
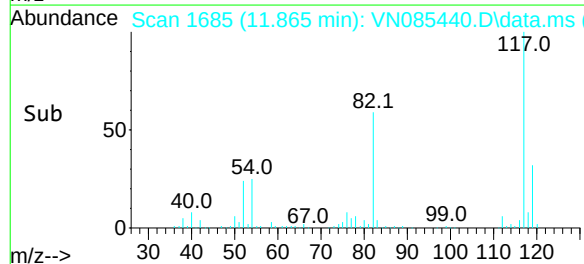
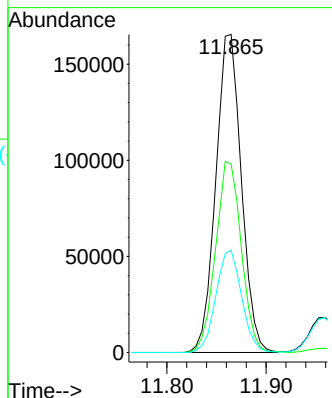
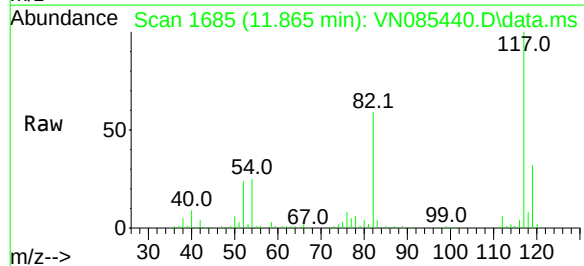
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:117 Resp: 296298
Ion Ratio Lower Upper
117 100
82 59.3 48.6 72.8
119 32.2 26.6 39.8

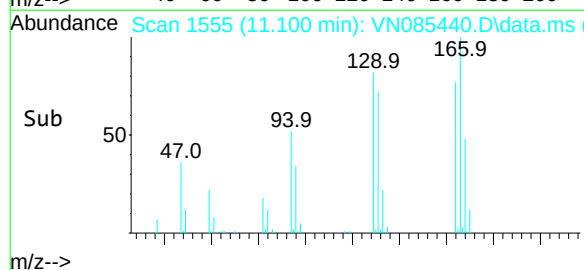
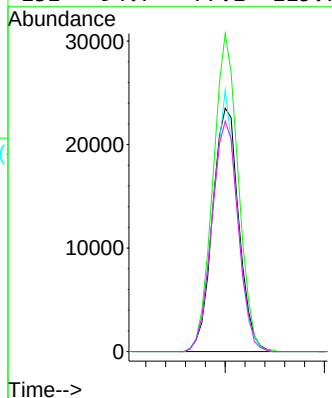
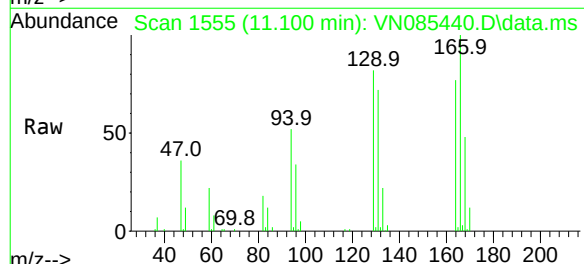
Manual Integrations
APPROVED

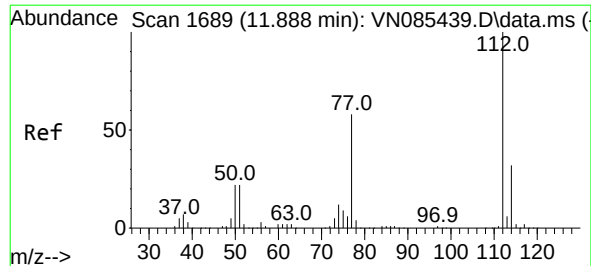
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#64
Tetrachloroethene
Concen: 21.408 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:164 Resp: 43243
Ion Ratio Lower Upper
164 100
166 130.6 103.4 155.2
129 107.4 79.2 118.8
131 94.7 77.1 115.7





#65

Chlorobenzene

Concen: 21.077 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:112 Resp: 136809

Ion Ratio Lower Upper

112 100

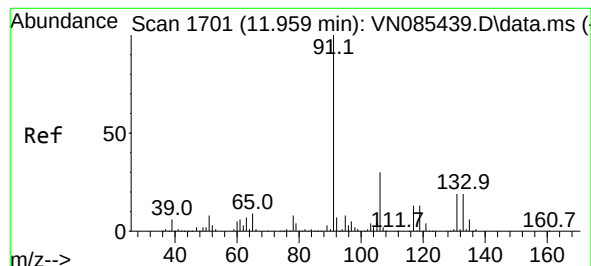
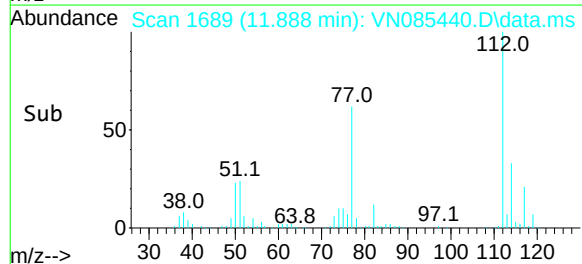
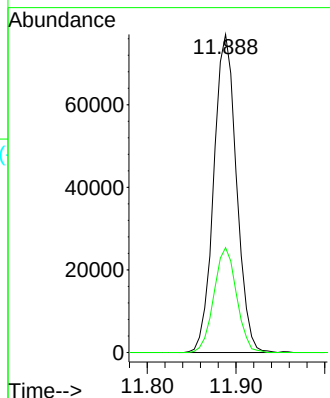
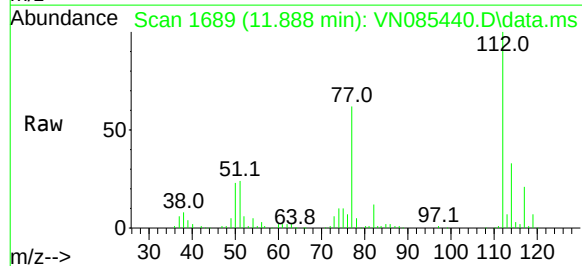
114 32.9 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 20.304 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

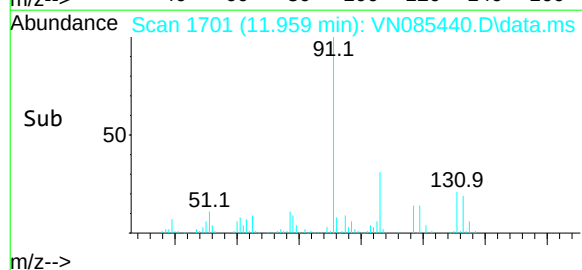
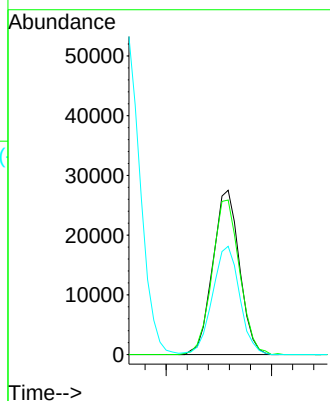
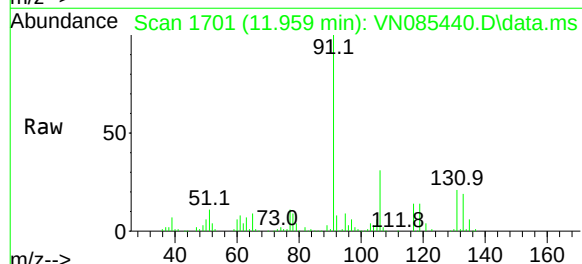
Tgt Ion:131 Resp: 48370

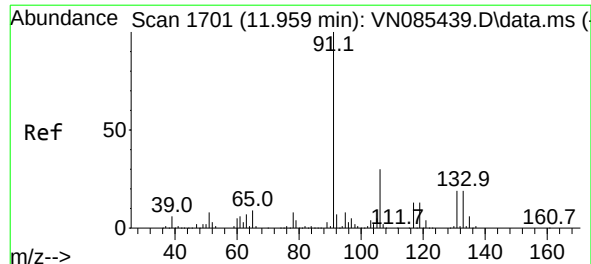
Ion Ratio Lower Upper

131 100

133 96.9 47.4 142.3

119 67.2 33.1 99.5





#67

Ethyl Benzene

Concen: 21.753 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 229978

Ion Ratio Lower Upper

91 100

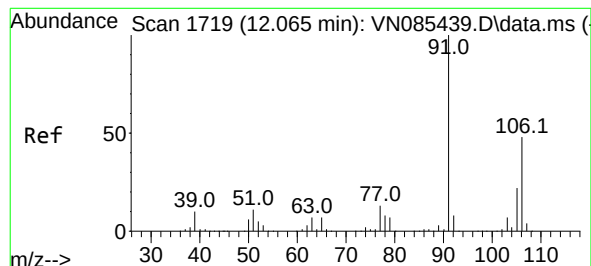
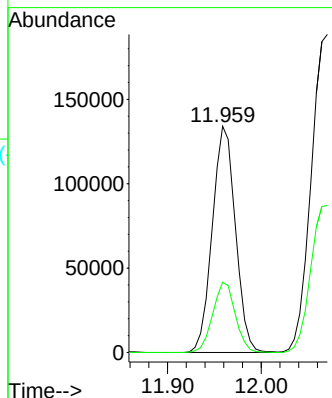
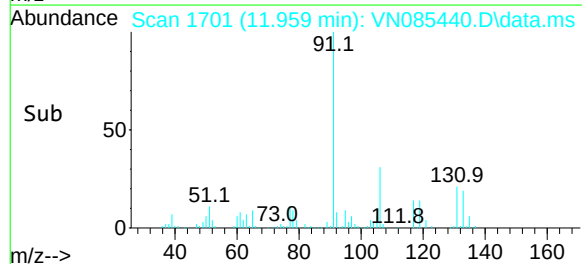
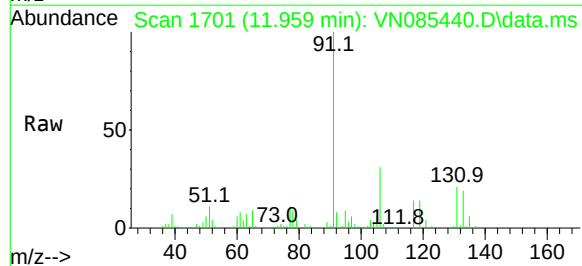
106 31.1 23.8 35.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#68

m/p-Xylenes

Concen: 45.494 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN085440.D

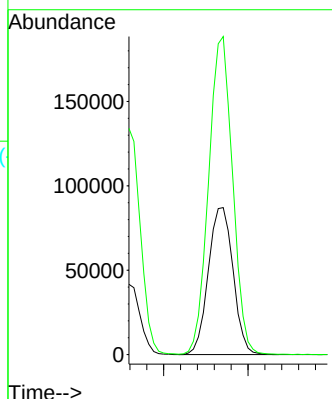
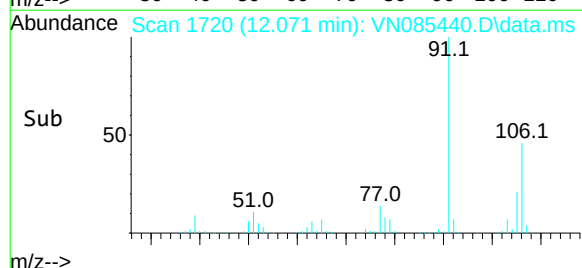
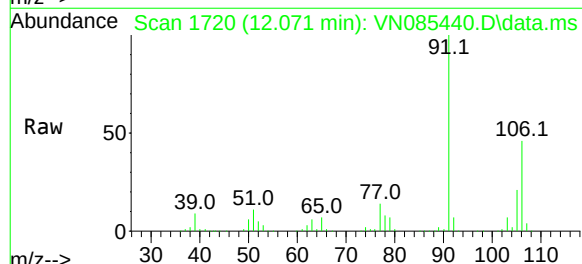
Acq: 14 Jan 2025 15:43

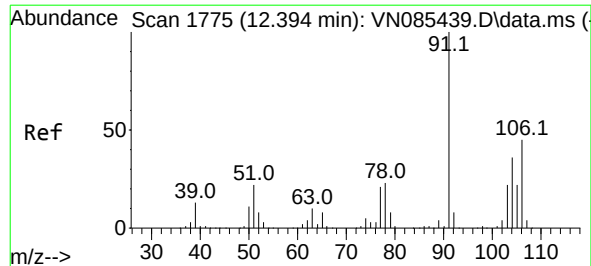
Tgt Ion:106 Resp: 177755

Ion Ratio Lower Upper

106 100

91 209.3 167.7 251.5





#69

o-Xylene

Concen: 22.643 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:106 Resp: 84548

Ion Ratio Lower Upper

106 100

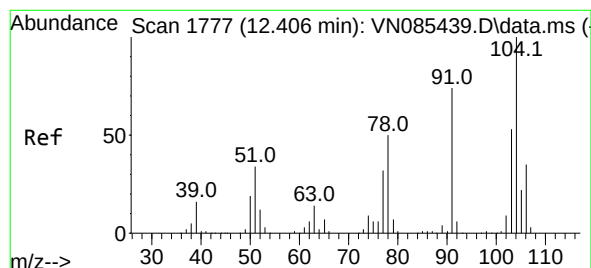
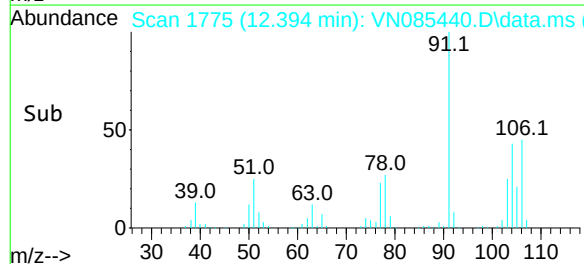
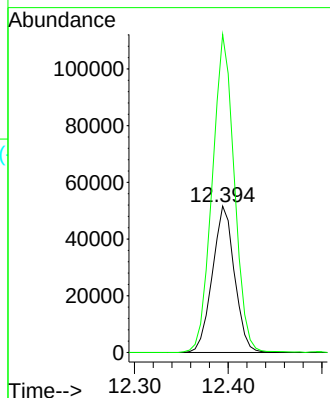
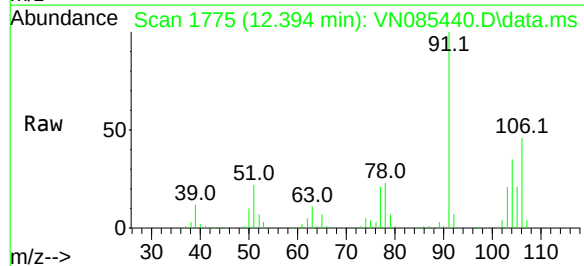
91 217.0 110.4 331.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#70

Styrene

Concen: 22.749 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

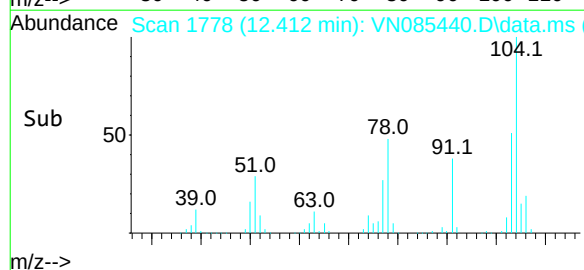
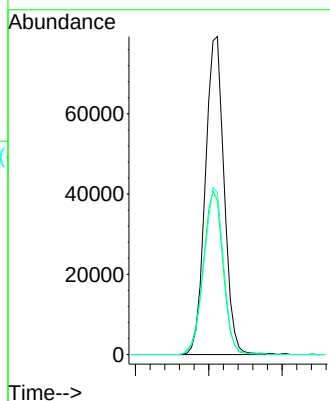
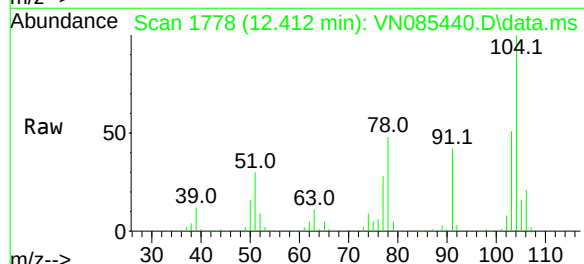
Tgt Ion:104 Resp: 140581

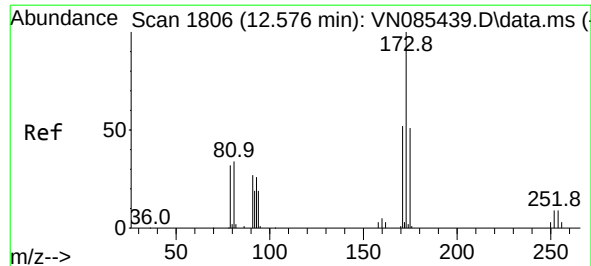
Ion Ratio Lower Upper

104 100

78 54.4 42.5 63.7

103 54.8 43.8 65.8





#71

Bromoform

Concen: 21.683 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

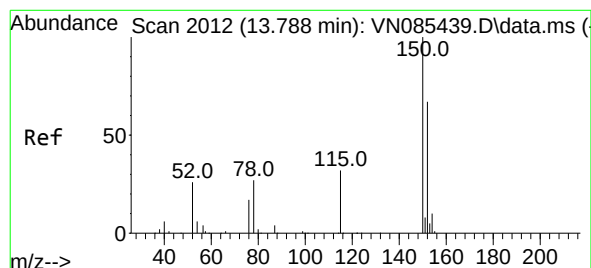
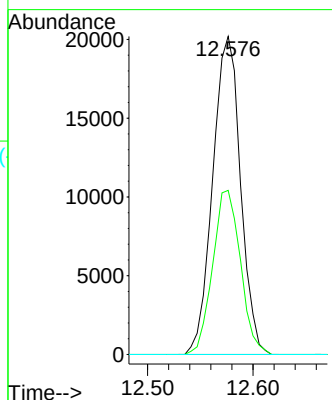
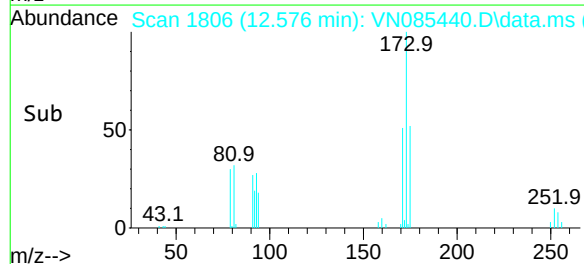
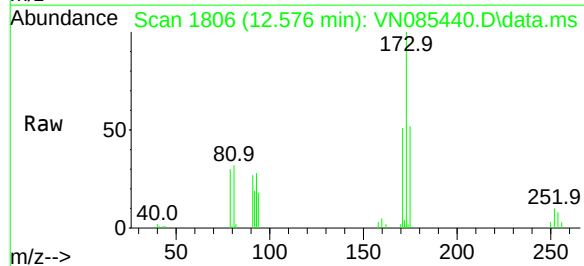
ClientSampleId :

VSTDIC020

Tgt Ion:	173	Resp:	36961
Ion Ratio	Lower	Upper	
173	100		
175	51.7	24.4	73.2
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

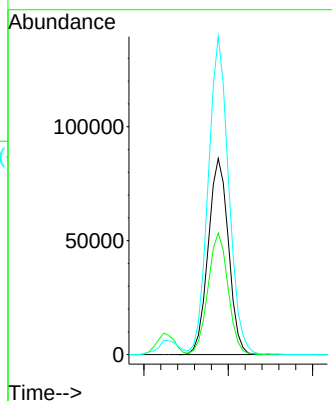
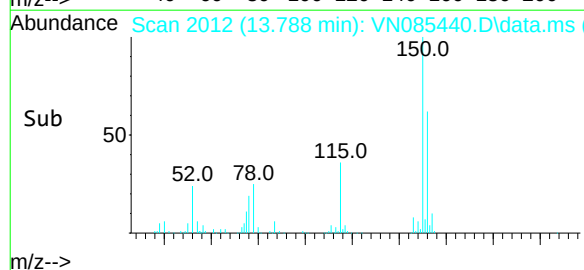
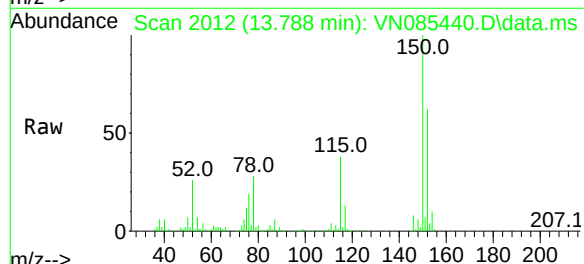
RT: 13.788 min Scan# 2012

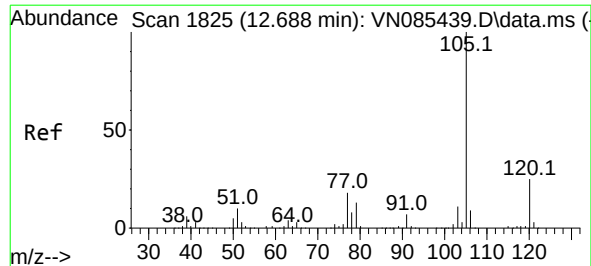
Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion:	152	Resp:	143526
Ion Ratio	Lower	Upper	
152	100		
115	61.4	31.1	93.3
150	163.9	0.0	343.6





#73

Isopropylbenzene

Concen: 21.819 ug/l

RT: 12.694 min Scan# 18

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion: 105 Resp: 211354

Ion Ratio Lower Upper

105 100

120 25.5 12.8 38.3

Instrument :

MSVOA_N

ClientSampleId :

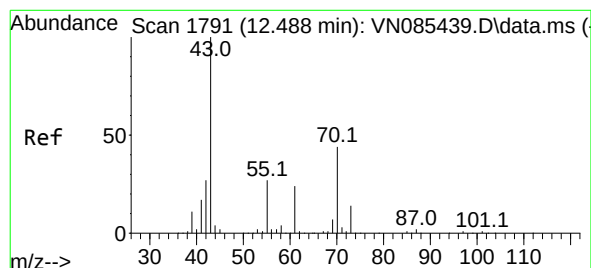
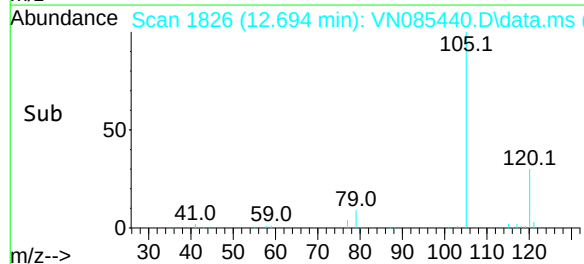
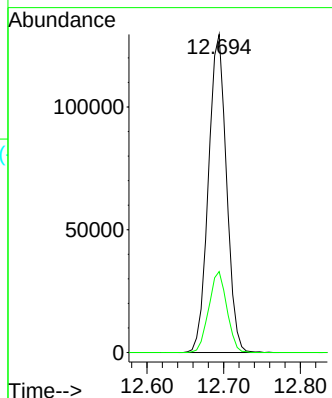
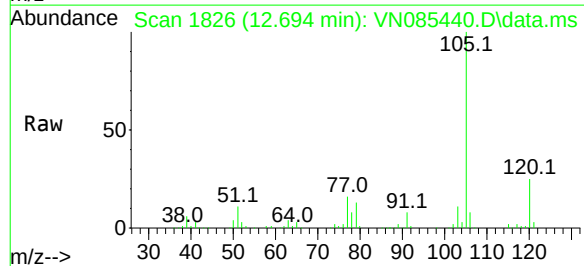
VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#74

N-ethyl acetate

Concen: 21.656 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 94292

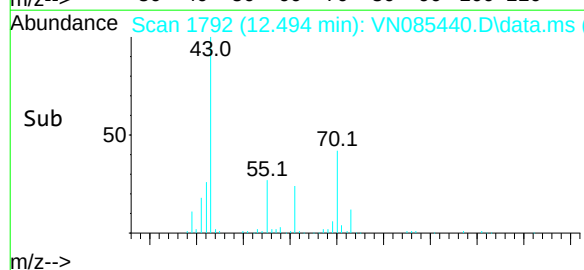
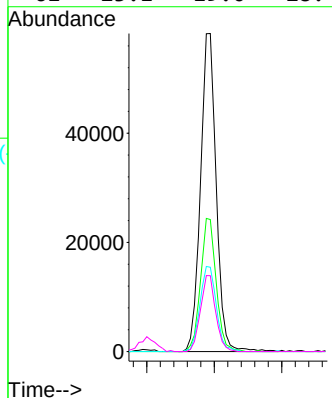
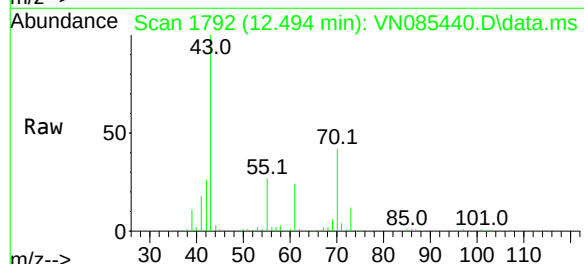
Ion Ratio Lower Upper

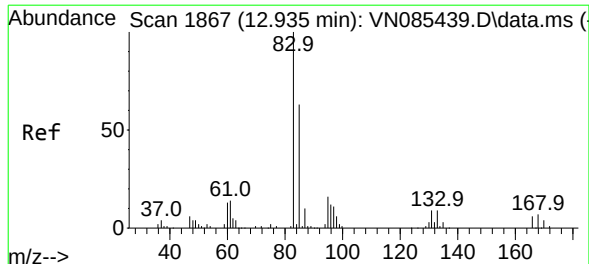
43 100

70 41.4 34.0 51.0

55 27.9 21.4 32.2

61 23.1 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 19.917 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

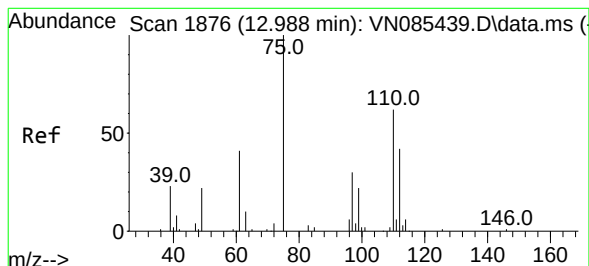
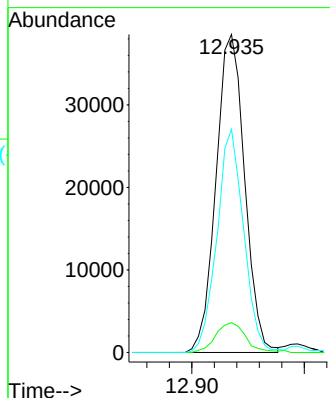
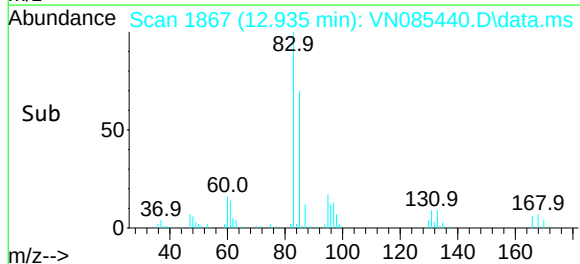
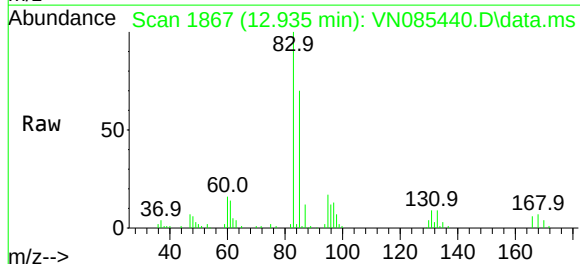
VSTDIC020

Tgt Ion:	83	Resp:	68151
Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.8	14.4
85	65.5	32.2	96.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#76

1,2,3-Trichloropropane

Concen: 22.036 ug/l m

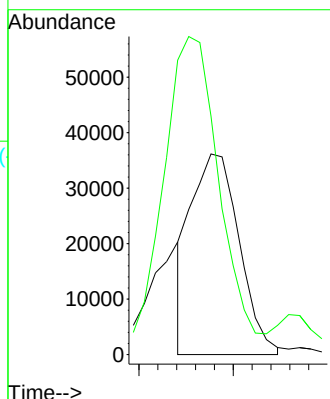
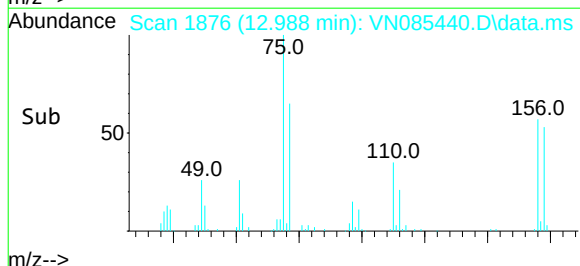
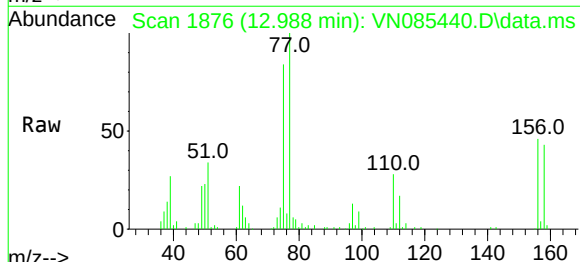
RT: 12.988 min Scan# 1876

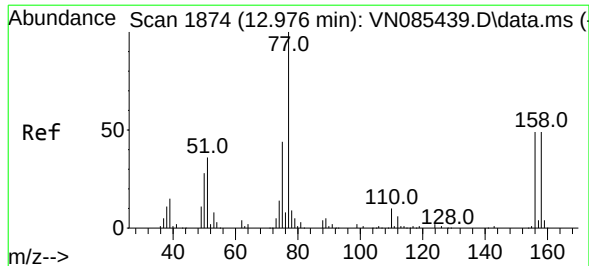
Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion:	75	Resp:	64180
Ion	Ratio	Lower	Upper
75	100		
77	186.8	109.7	329.2





#77

Bromobenzene

Concen: 20.556 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085440.D

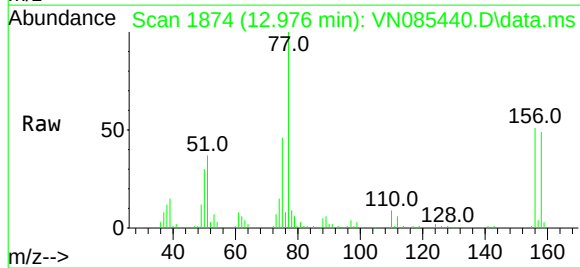
Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020



Tgt Ion:156 Resp: 52022

Ion Ratio Lower Upper

156 100

77 230.4 114.1 342.4

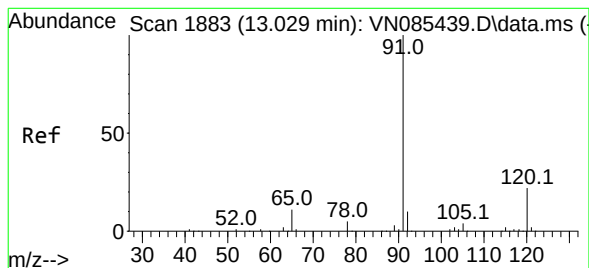
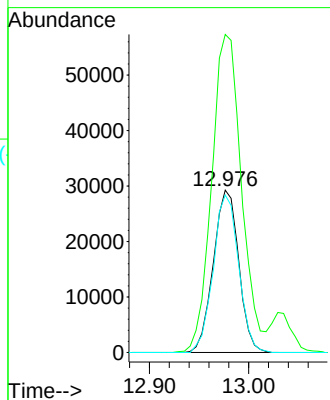
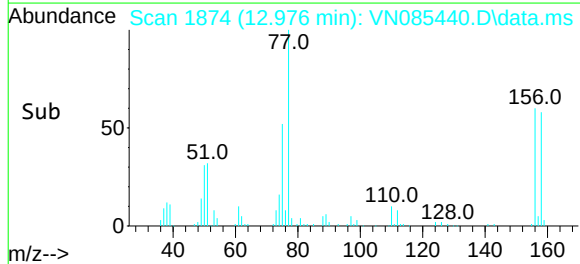
158 97.0 48.9 146.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#78

n-propylbenzene

Concen: 22.028 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.006 min

Lab File: VN085440.D

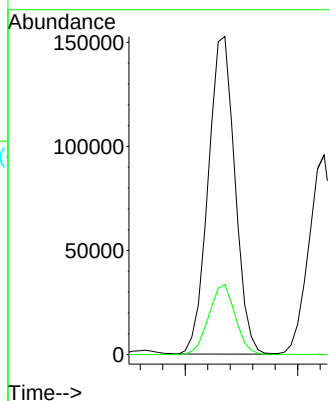
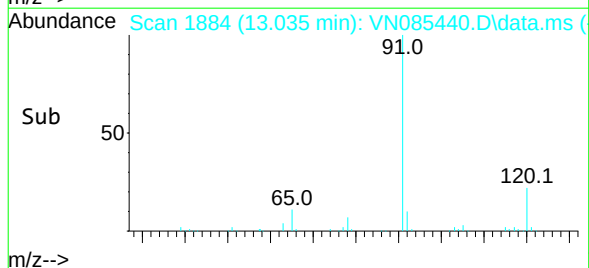
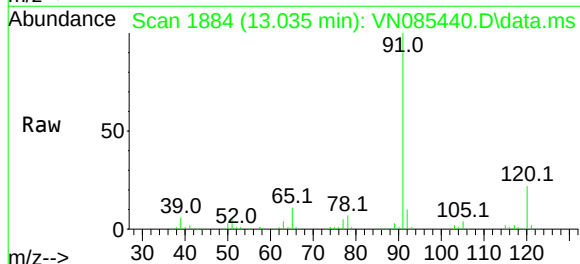
Acq: 14 Jan 2025 15:43

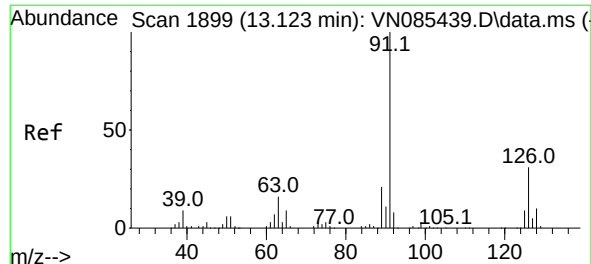
Tgt Ion: 91 Resp: 252610

Ion Ratio Lower Upper

91 100

120 21.8 10.9 32.6





#79

2-Chlorotoluene

Concen: 21.358 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 158511

Ion Ratio Lower Upper

91 100

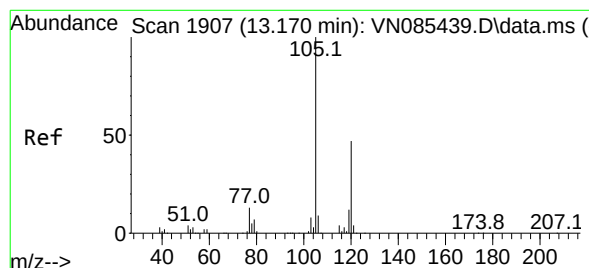
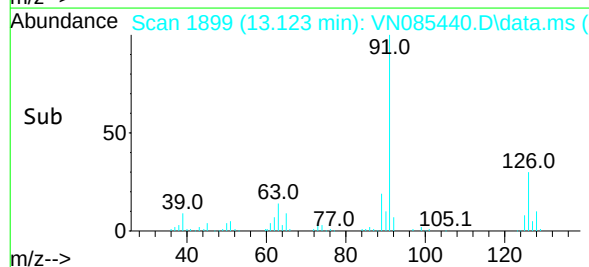
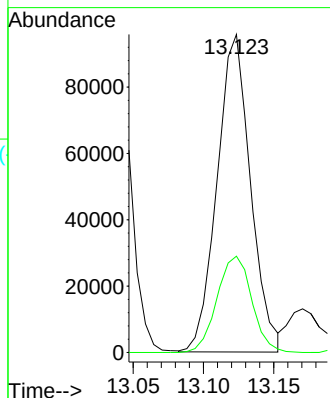
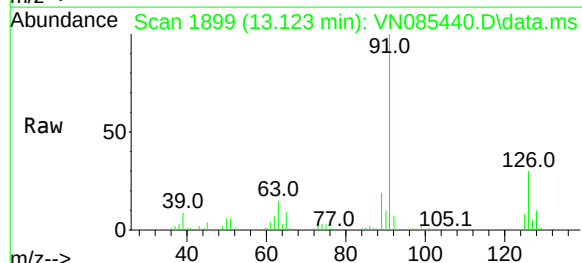
126 31.5 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#80

1,3,5-Trimethylbenzene

Concen: 22.533 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085440.D

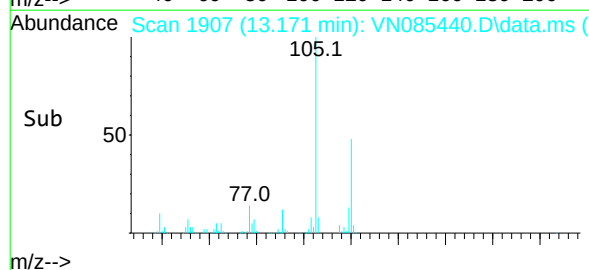
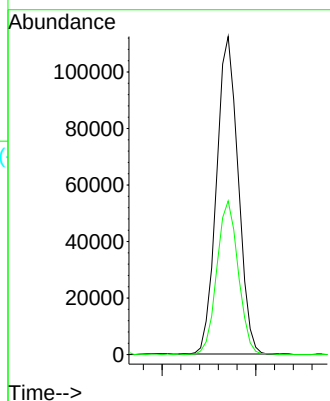
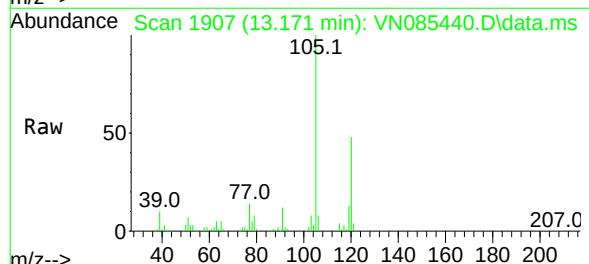
Acq: 14 Jan 2025 15:43

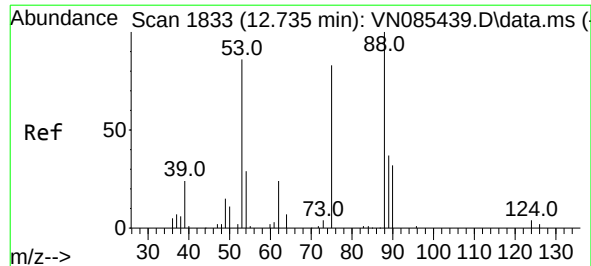
Tgt Ion:105 Resp: 180294

Ion Ratio Lower Upper

105 100

120 47.9 23.9 71.7





#81

trans-1,4-Dichloro-2-butene

Concen: 20.569 ug/l m

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 75 Resp: 22178

Ion Ratio Lower Upper

75 100

53 107.2 95.6 143.4

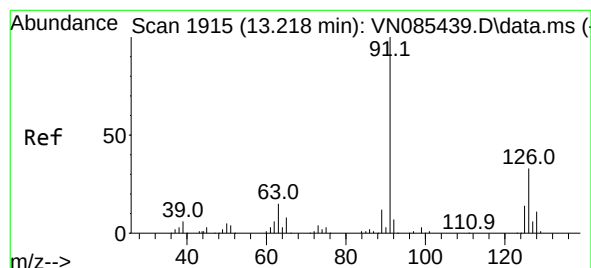
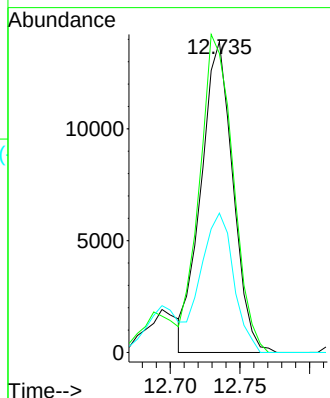
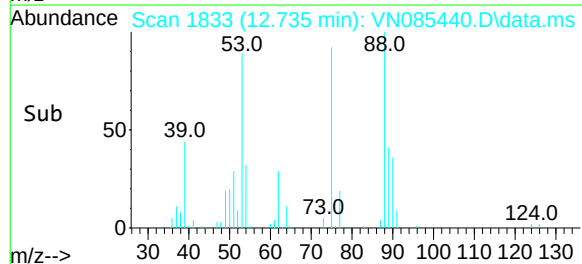
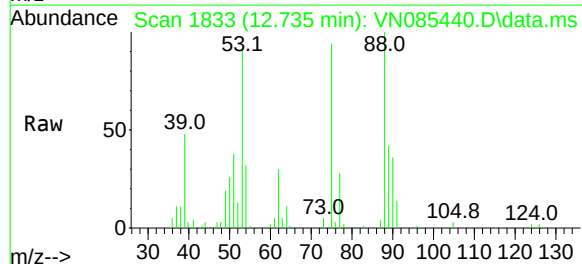
89 46.9 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#82

4-Chlorotoluene

Concen: 21.906 ug/l

RT: 13.218 min Scan# 1915

Delta R.T. 0.000 min

Lab File: VN085440.D

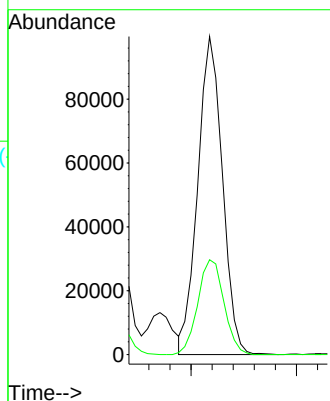
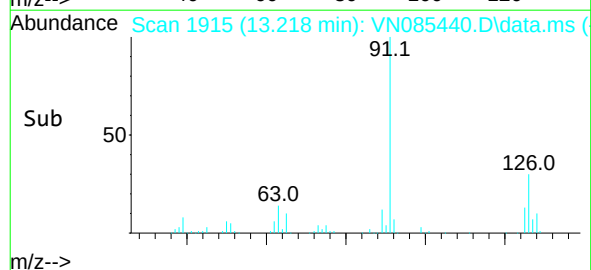
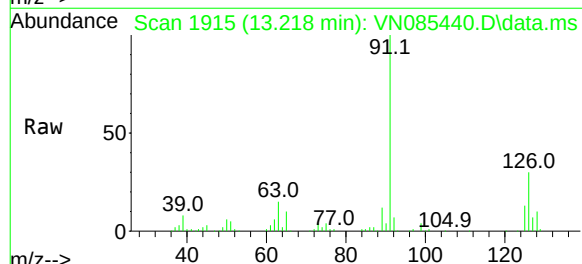
Acq: 14 Jan 2025 15:43

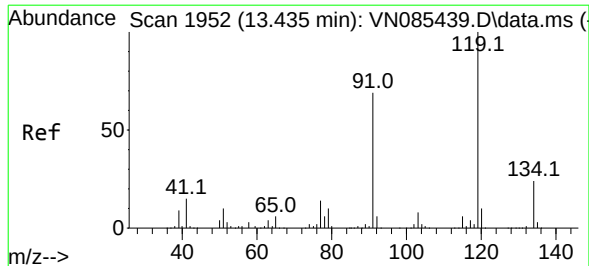
Tgt Ion: 91 Resp: 161880

Ion Ratio Lower Upper

91 100

126 31.6 15.9 47.7





#83

tert-Butylbenzene

Concen: 21.958 ug/l

RT: 13.435 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:119 Resp: 147541

Ion Ratio Lower Upper

119 100

91 69.5 35.1 105.3

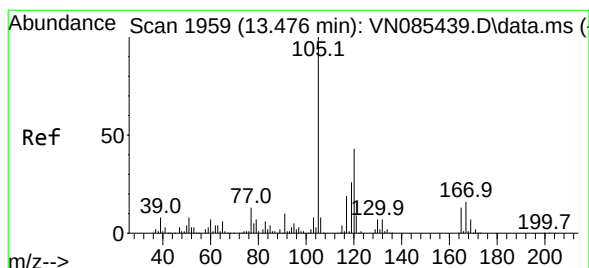
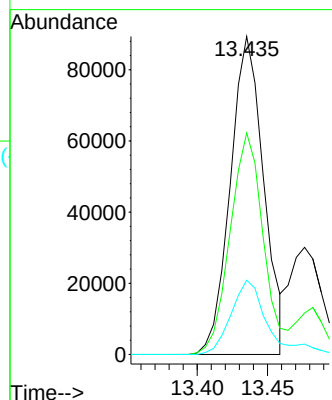
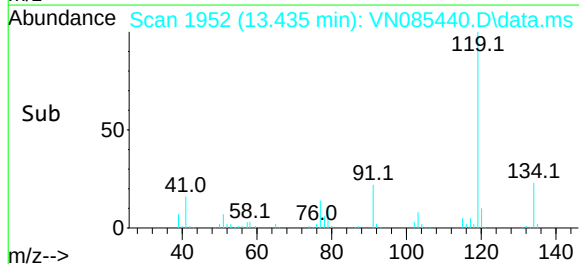
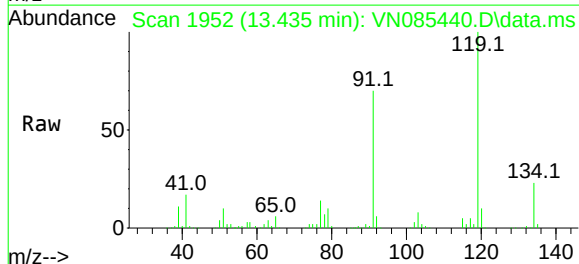
134 25.5 12.0 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#84

1,2,4-Trimethylbenzene

Concen: 22.965 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN085440.D

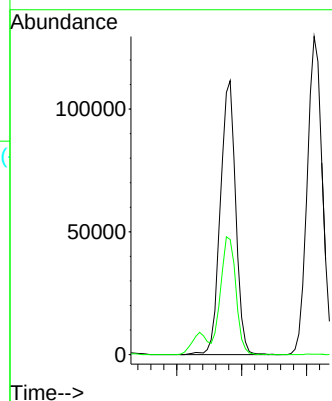
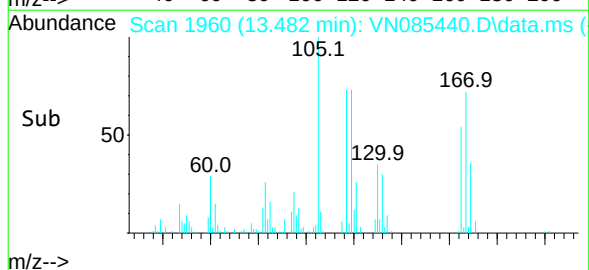
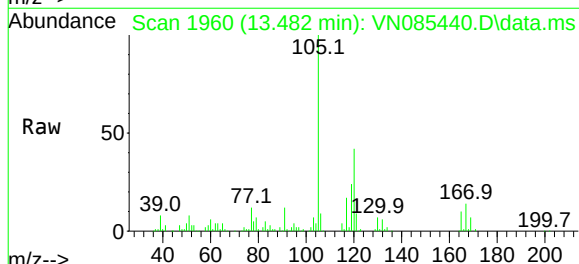
Acq: 14 Jan 2025 15:43

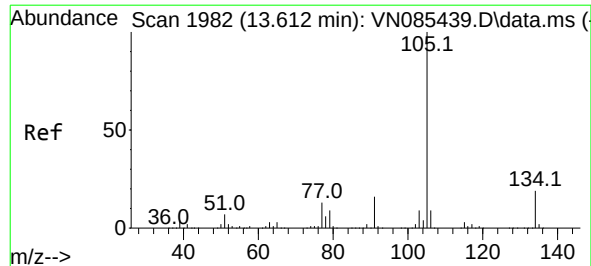
Tgt Ion:105 Resp: 183144

Ion Ratio Lower Upper

105 100

120 42.8 21.6 65.0





#85

sec-Butylbenzene

Concen: 22.457 ug/l

RT: 13.612 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:105 Resp: 209133

Ion Ratio Lower Upper

105 100

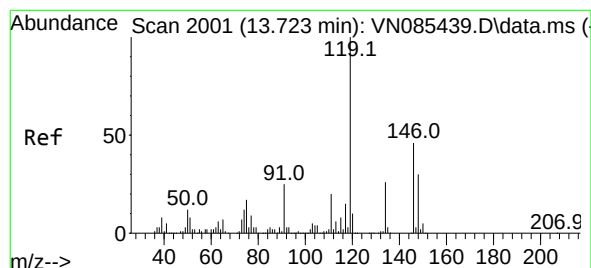
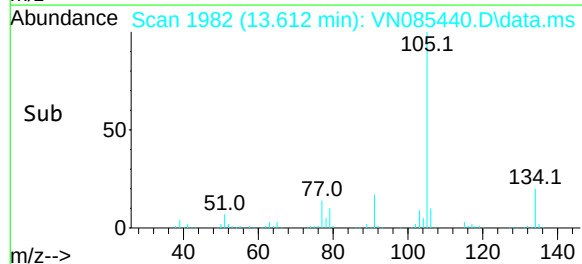
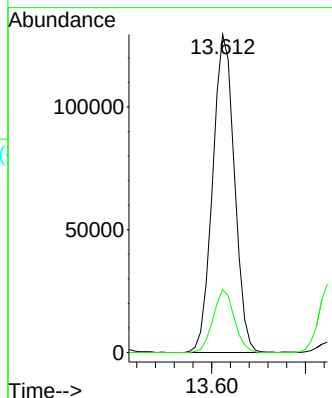
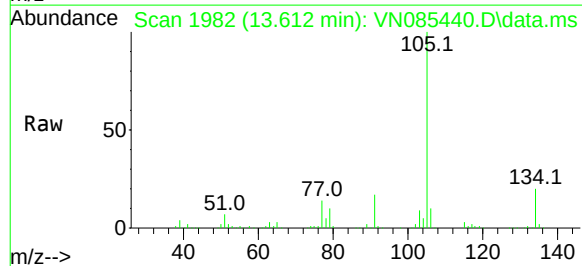
134 19.2 9.7 28.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#86

p-Isopropyltoluene

Concen: 21.661 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

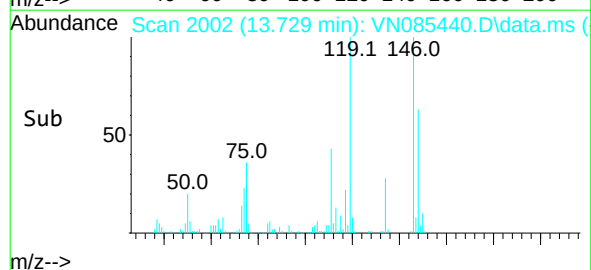
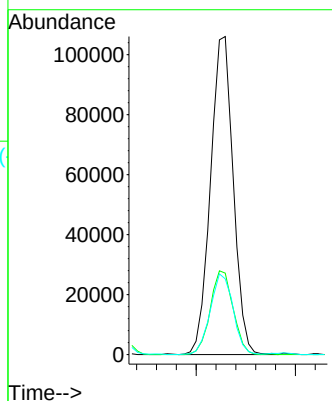
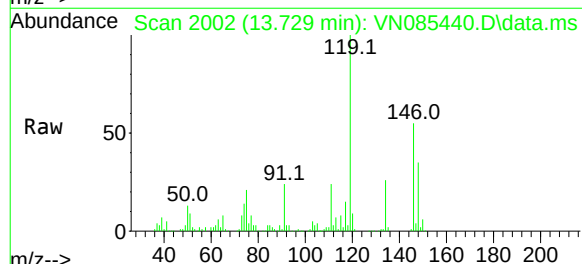
Tgt Ion:119 Resp: 168888

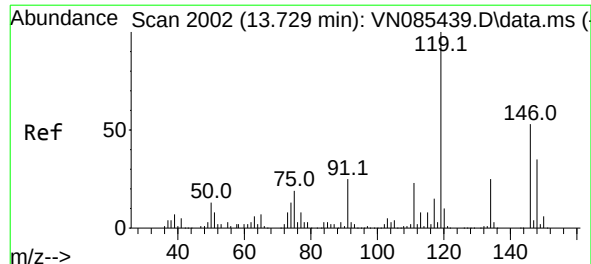
Ion Ratio Lower Upper

119 100

134 26.4 12.7 38.0

91 25.5 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 20.952 ug/l

RT: 13.729 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:146 Resp: 97652

Ion Ratio Lower Upper

146 100

111 42.9 21.4 64.3

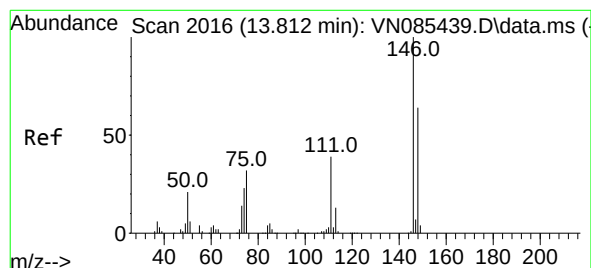
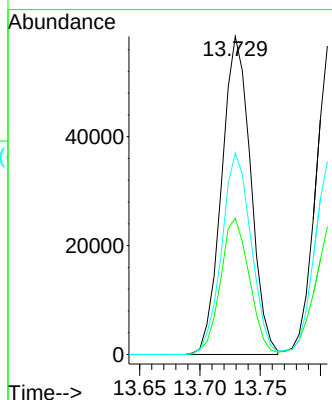
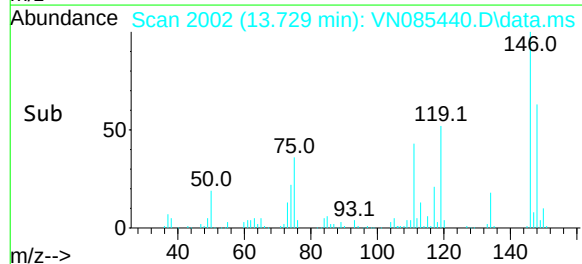
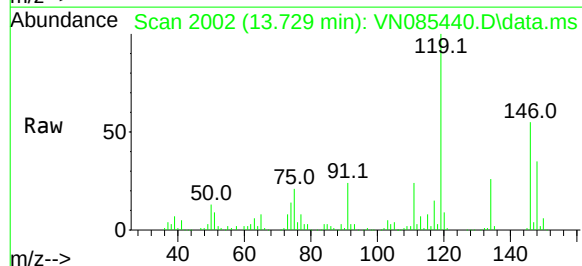
148 64.3 32.3 96.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#88

1,4-Dichlorobenzene

Concen: 20.351 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. -0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

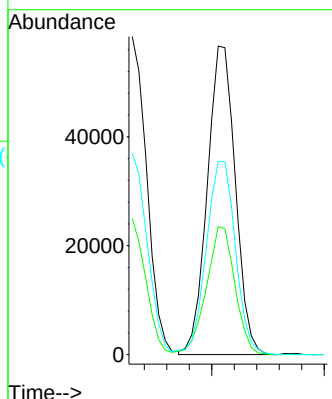
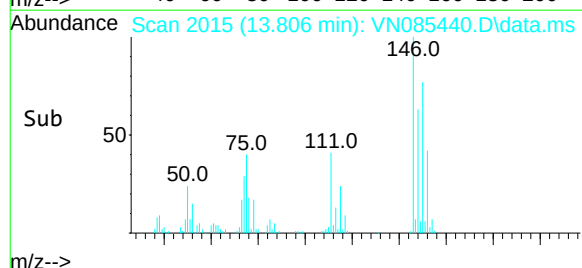
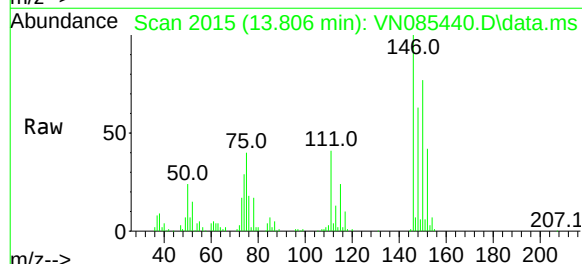
Tgt Ion:146 Resp: 98321

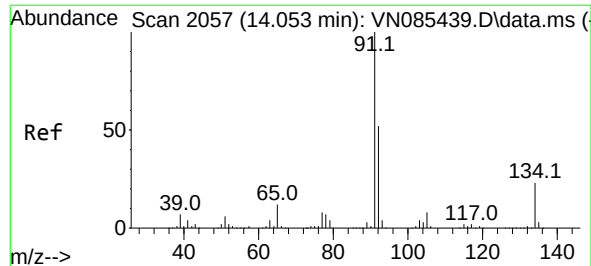
Ion Ratio Lower Upper

146 100

111 42.2 21.3 63.7

148 65.1 32.4 97.0





#89

n-Butylbenzene

Concen: 21.355 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

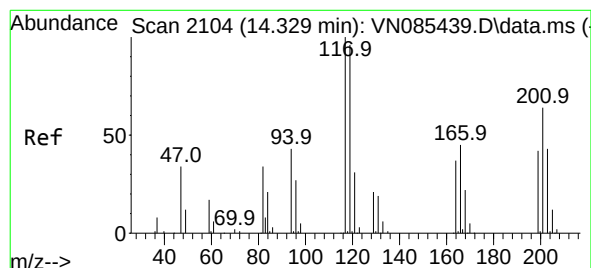
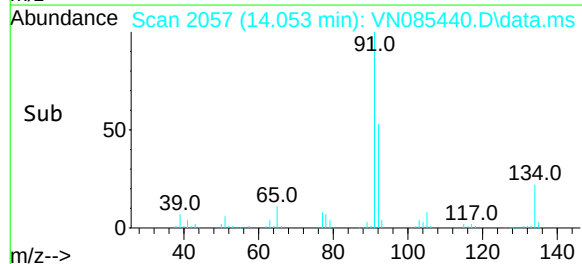
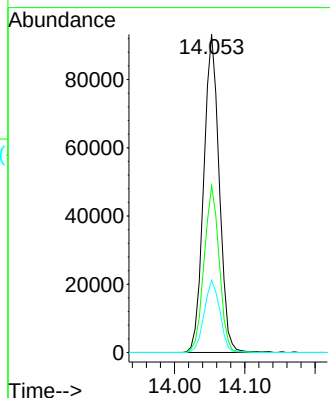
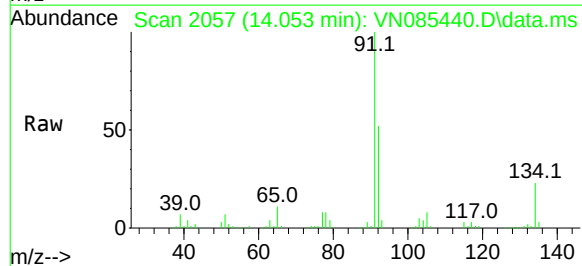
ClientSampleId :

VSTDICC020

Tgt Ion:	91	Resp:	142673
Ion Ratio	Lower	Upper	
91	100		
92	51.0	25.8	77.3
134	23.0	11.7	35.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#90

Hexachloroethane

Concen: 19.858 ug/l

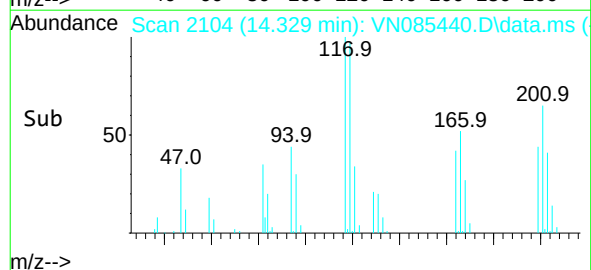
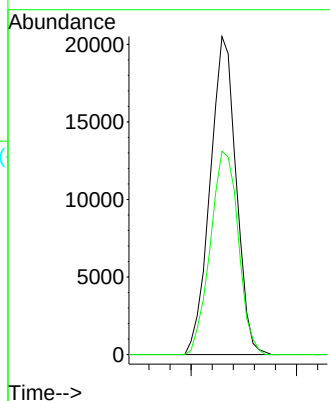
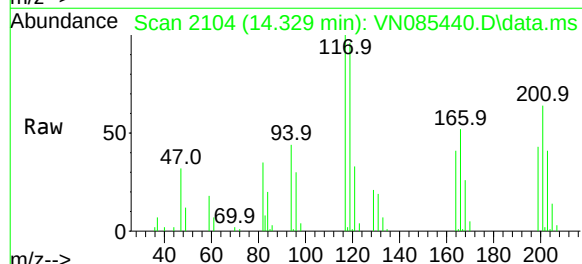
RT: 14.329 min Scan# 2104

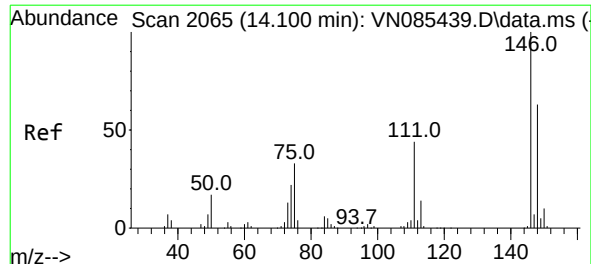
Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion:	117	Resp:	35205
Ion Ratio	Lower	Upper	
117	100		
201	68.8	33.7	101.0





#91

1,2-Dichlorobenzene

Concen: 20.425 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

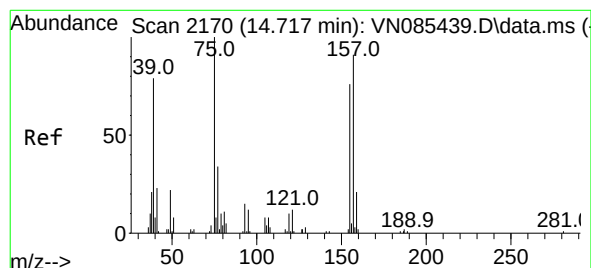
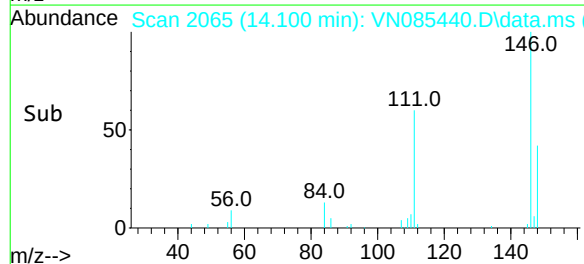
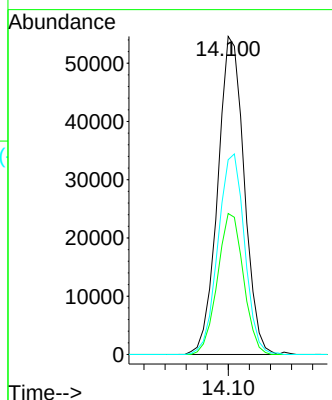
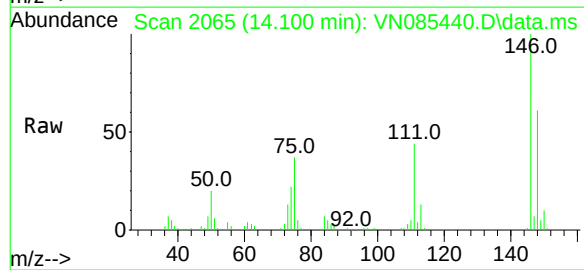
VSTDIC020

Tgt Ion:	146	Resp:	94954
Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.7	65.1
148	63.5	31.4	94.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.580 ug/l

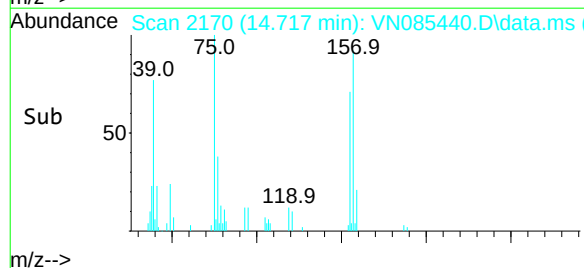
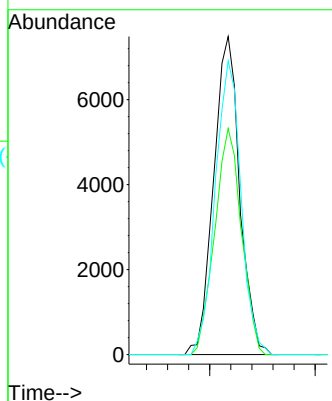
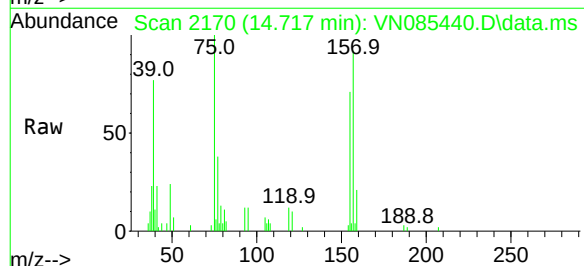
RT: 14.717 min Scan# 2170

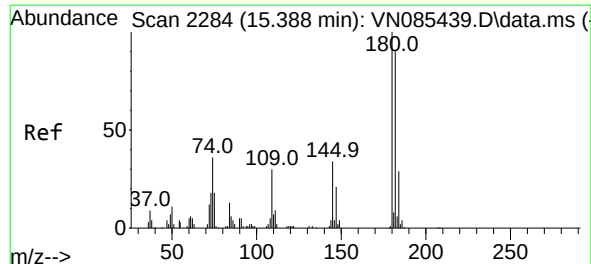
Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion:	75	Resp:	12859
Ion	Ratio	Lower	Upper
75	100		
155	72.7	36.4	109.2
157	90.9	45.4	136.1





#93

1,2,4-Trichlorobenzene

Concen: 21.233 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN085440.D

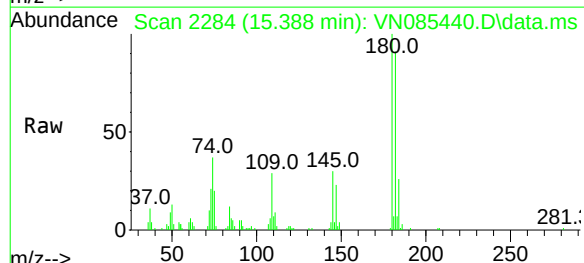
Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

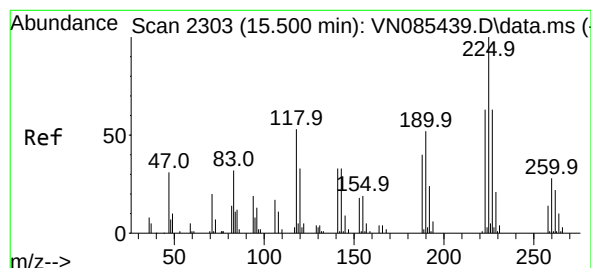
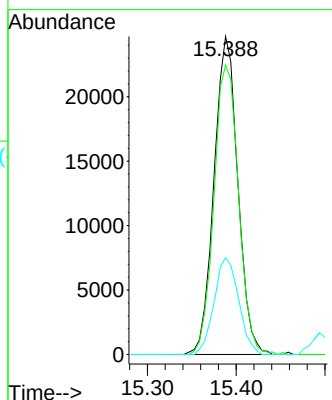
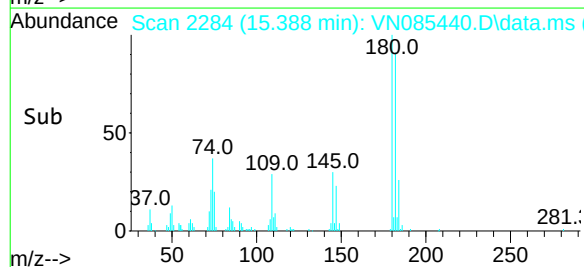
VSTDIC020



Tgt Ion:	180	Resp:	45878
Ion Ratio	Lower	Upper	
180	100		
182	94.2	46.8	140.3
145	31.4	16.0	48.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#94

Hexachlorobutadiene

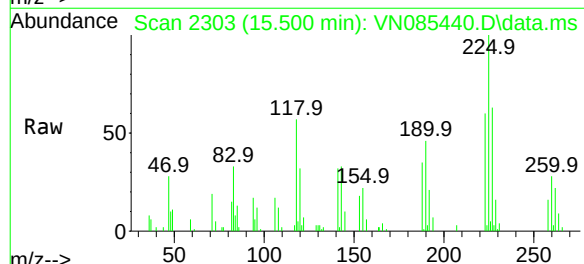
Concen: 19.805 ug/l

RT: 15.500 min Scan# 2303

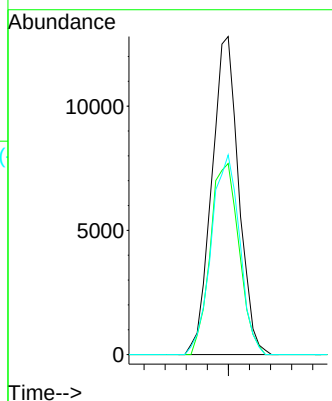
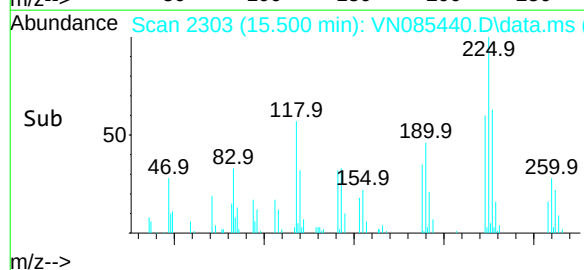
Delta R.T. 0.000 min

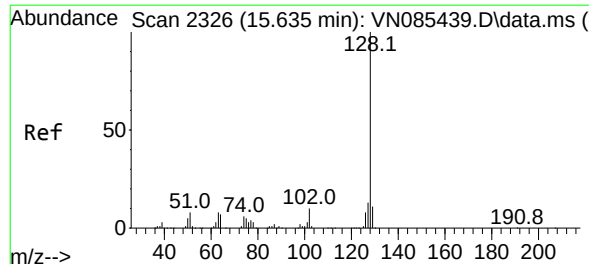
Lab File: VN085440.D

Acq: 14 Jan 2025 15:43



Tgt Ion:	225	Resp:	22719
Ion Ratio	Lower	Upper	
225	100		
223	64.3	30.7	92.1
227	66.3	30.9	92.5





#95

Naphthalene

Concen: 20.906 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

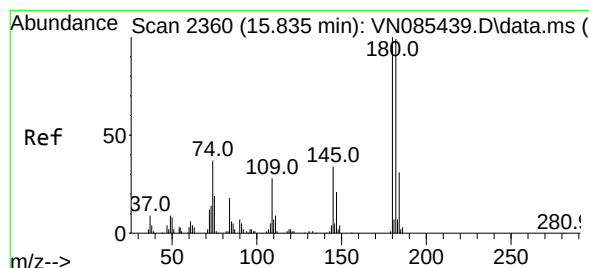
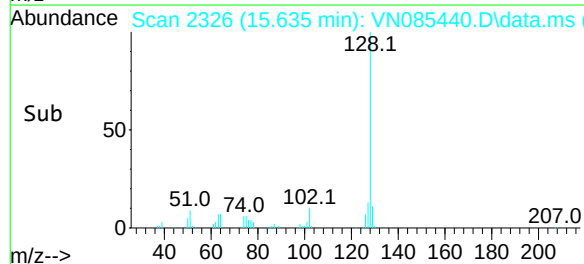
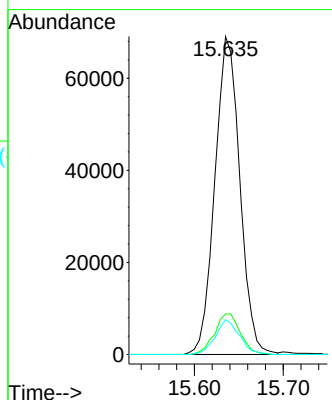
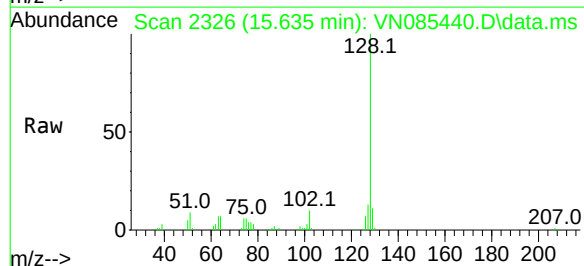
ClientSampleId :

VSTDIC020

Tgt Ion:	128	Resp:	134793
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.6	16.0
129	10.6	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#96

1,2,3-Trichlorobenzene

Concen: 20.797 ug/l

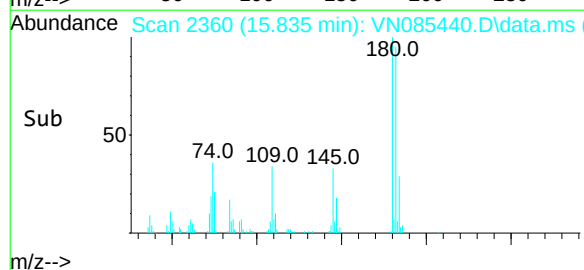
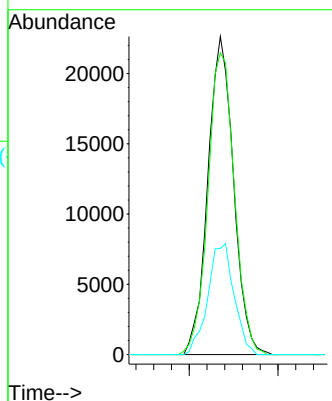
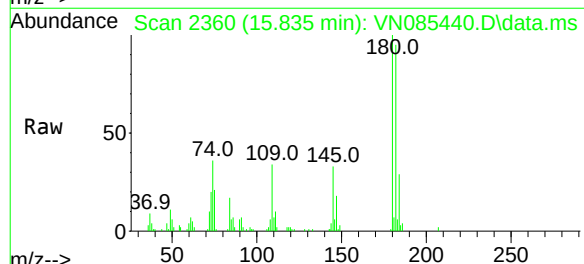
RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion:	180	Resp:	45468
Ion	Ratio	Lower	Upper
180	100		
182	97.9	47.4	142.2
145	35.7	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085441.D
 Acq On : 14 Jan 2025 16:07
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Quant Time: Jan 15 01:44:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	195889	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	340403	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	294508	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	132934	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	29856	9.442	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	18.880%#
35) Dibromofluoromethane	8.165	113	21110	8.939	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	17.880%#
50) Toluene-d8	10.565	98	73223	8.727	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	17.460%#
62) 4-Bromofluorobenzene	12.847	95	24327	8.476	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	16.960%#

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	2.124	85	26124	9.850	ug/l	96
3) Chloromethane	2.359	50	27143	9.452	ug/l	99
4) Vinyl Chloride	2.512	62	27862	9.653	ug/l	100
5) Bromomethane	2.965	94	17139	9.830	ug/l	87
6) Chloroethane	3.130	64	16791	9.175	ug/l	96
7) Trichlorofluoromethane	3.501	101	40755	9.731	ug/l	98
8) Diethyl Ether	3.953	74	12415	8.581	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.371	101	22982	9.742	ug/l	98
10) Methyl Iodide	4.589	142	25085	9.286	ug/l	99
11) Tert butyl alcohol	5.512	59	17962	49.608	ug/l	97
12) 1,1-Dichloroethene	4.342	96	20615	9.806	ug/l	99
13) Acrolein	4.177	56	25568	51.729	ug/l	99
14) Allyl chloride	5.018	41	32240	9.451	ug/l	97
15) Acrylonitrile	5.712	53	53959	46.918	ug/l	98
16) Acetone	4.424	43	48475	47.446	ug/l	98
17) Carbon Disulfide	4.712	76	60201	9.300	ug/l #	94
18) Methyl Acetate	5.030	43	30500	9.817	ug/l	98
19) Methyl tert-butyl Ether	5.789	73	65207	9.552	ug/l	91
20) Methylene Chloride	5.277	84	23723	9.379	ug/l	96
21) trans-1,2-Dichloroethene	5.783	96	21127	9.403	ug/l	97
22) Diisopropyl ether	6.671	45	71857	9.490	ug/l	97
23) Vinyl Acetate	6.600	43	250575	47.125	ug/l	98
24) 1,1-Dichloroethane	6.565	63	43099	9.335	ug/l	95
25) 2-Butanone	7.477	43	71191	47.350	ug/l	99
26) 2,2-Dichloropropane	7.483	77	36105	9.672	ug/l	99
27) cis-1,2-Dichloroethene	7.489	96	25049	9.466	ug/l	97
28) Bromochloromethane	7.806	49	19037	8.863	ug/l	97
29) Tetrahydrofuran	7.836	42	45641	47.881	ug/l	98
30) Chloroform	7.965	83	45792	9.596	ug/l	100
31) Cyclohexane	8.253	56	40211	10.020	ug/l #	93
32) 1,1,1-Trichloroethane	8.165	97	39170	9.358	ug/l	99
36) 1,1-Dichloropropene	8.371	75	30015	9.056	ug/l	97
37) Ethyl Acetate	7.559	43	30760	9.195	ug/l	97
38) Carbon Tetrachloride	8.359	117	36015	9.492	ug/l	94
39) Methylcyclohexane	9.594	83	27721	8.900	ug/l	95
40) Benzene	8.600	78	93680	9.407	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085441.D
 Acq On : 14 Jan 2025 16:07
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Quant Time: Jan 15 01:44:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	16859	9.686	ug/l	96
42) 1,2-Dichloroethane	8.665	62	35569	9.483	ug/l	99
43) Isopropyl Acetate	8.683	43	48926	9.127	ug/l	99
44) Trichloroethene	9.347	130	21113	9.108	ug/l	95
45) 1,2-Dichloropropane	9.618	63	22747	8.942	ug/l	97
46) Dibromomethane	9.706	93	17260	9.404	ug/l	99
47) Bromodichloromethane	9.883	83	35020	9.365	ug/l	98
48) Methyl methacrylate	9.677	41	21873	9.067	ug/l	97
49) 1,4-Dioxane	9.694	88	7734	190.382	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	146990	47.254	ug/l	98
52) Toluene	10.630	92	54976	9.527	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	32780	9.276	ug/l	96
54) cis-1,3-Dichloropropene	10.312	75	35904	9.512	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	21060	9.222	ug/l	98
56) Ethyl methacrylate	10.871	69	28454	9.042	ug/l	95
57) 1,3-Dichloropropane	11.159	76	37768	9.512	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	63110	43.550	ug/l	98
59) 2-Hexanone	11.194	43	101318	46.291	ug/l	98
60) Dibromochloromethane	11.353	129	25029	9.079	ug/l	98
61) 1,2-Dibromoethane	11.465	107	21055	9.263	ug/l	100
64) Tetrachloroethene	11.100	164	19934	9.928	ug/l	97
65) Chlorobenzene	11.888	112	61680	9.560	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.959	131	21853	9.229	ug/l	98
67) Ethyl Benzene	11.959	91	99248	9.445	ug/l	97
68) m/p-Xylenes	12.065	106	72431	18.650	ug/l	99
69) o-Xylene	12.394	106	34382	9.264	ug/l	99
70) Styrene	12.406	104	56285	9.163	ug/l	98
71) Bromoform	12.576	173	16071	9.485	ug/l #	98
73) Isopropylbenzene	12.694	105	87003	9.697	ug/l	99
74) N-amyl acetate	12.494	43	37343	9.260	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	30770	9.709	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	25443m	9.432	ug/l	
77) Bromobenzene	12.976	156	22784	9.720	ug/l	97
78) n-propylbenzene	13.035	91	102262	9.628	ug/l	98
79) 2-Chlorotoluene	13.123	91	68346	9.943	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	71656	9.669	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	9236	9.248	ug/l	100
82) 4-Chlorotoluene	13.218	91	66773	9.756	ug/l	97
83) tert-Butylbenzene	13.435	119	59455	9.553	ug/l	98
84) 1,2,4-Trimethylbenzene	13.476	105	72046	9.754	ug/l	99
85) sec-Butylbenzene	13.612	105	83662	9.699	ug/l	99
86) p-Isopropyltoluene	13.729	119	67556	9.674	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	41843	9.693	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	42728	9.549	ug/l	99
89) n-Butylbenzene	14.053	91	57632	9.314	ug/l	97
90) Hexachloroethane	14.329	117	15261	9.294	ug/l	97
91) 1,2-Dichlorobenzene	14.106	146	40726	9.458	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	5639	9.744	ug/l	95
93) 1,2,4-Trichlorobenzene	15.388	180	18720	9.354	ug/l	99
94) Hexachlorobutadiene	15.500	225	10491	9.874	ug/l	98
95) Naphthalene	15.635	128	52054	8.717	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	19450	9.605	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085441.D
Acq On : 14 Jan 2025 16:07
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:44:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

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

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

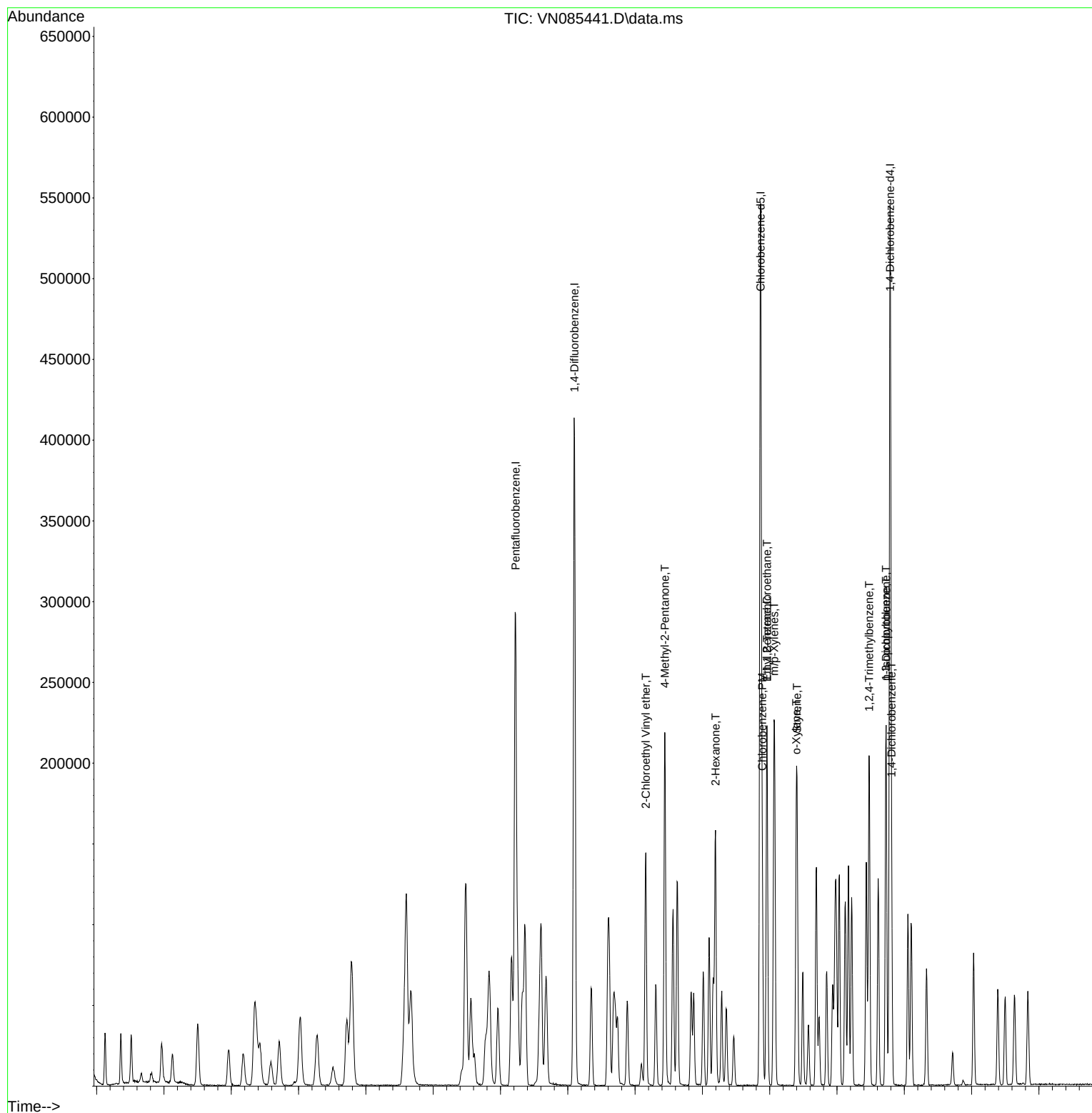
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Acq On : 14 Jan 2025 16:07
Operator : JC\MD
Sample : VSTDIC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

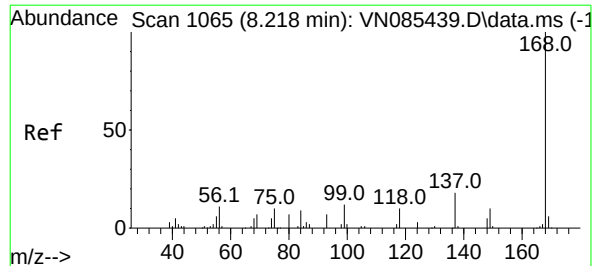
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Manual Integrations
APPROVED

Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:44:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
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Response via : Initial Calibration





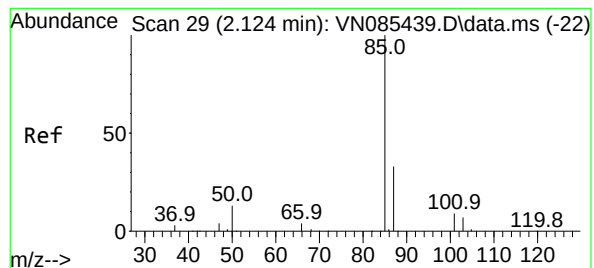
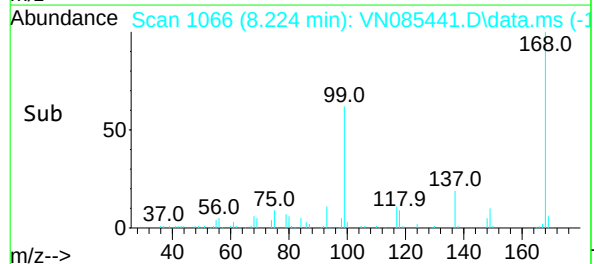
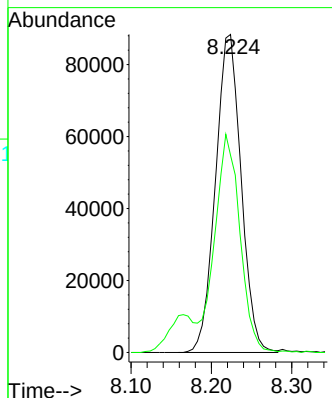
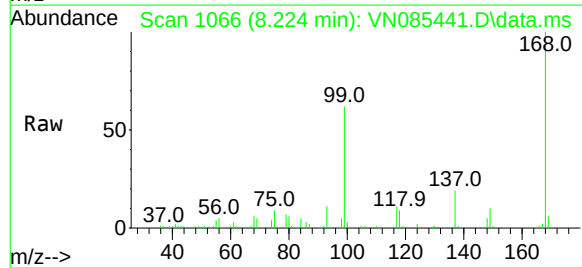
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Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:168 Resp: 195889
Ion Ratio Lower Upper
168 100
99 61.7 53.6 80.4

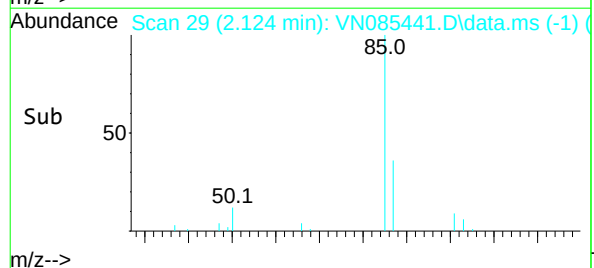
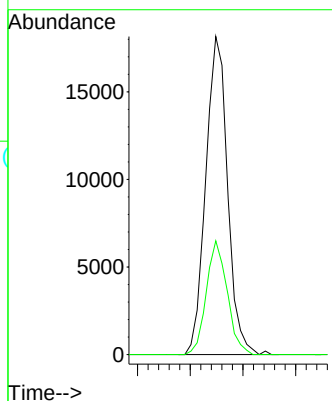
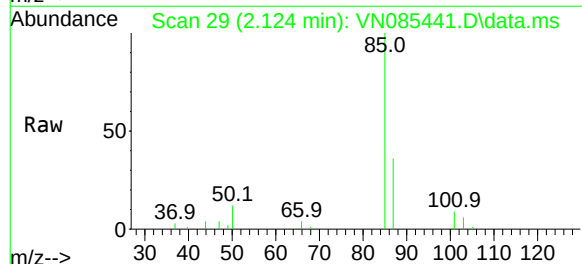
Manual Integrations
APPROVED

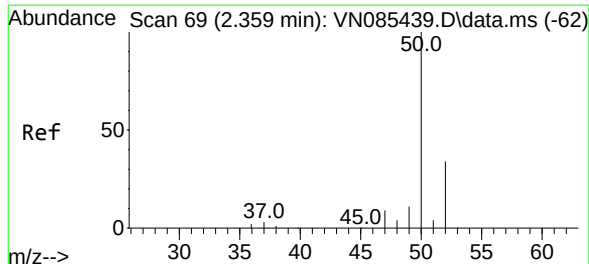
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#2
Dichlorodifluoromethane
Concen: 9.850 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 85 Resp: 26124
Ion Ratio Lower Upper
85 100
87 35.8 16.7 50.1





#3

Chloromethane

Concen: 9.452 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 50 Resp: 27143

Ion Ratio Lower Upper

50 100

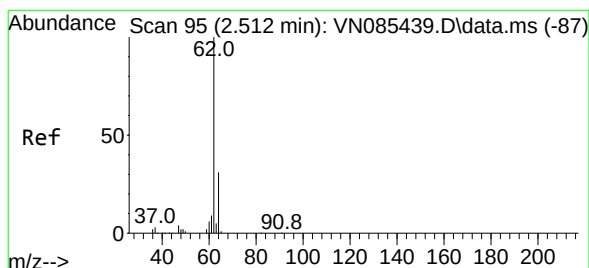
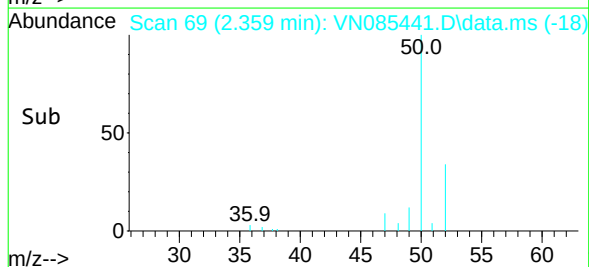
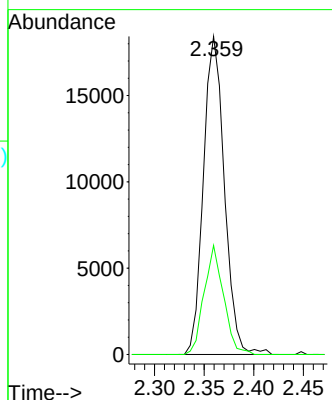
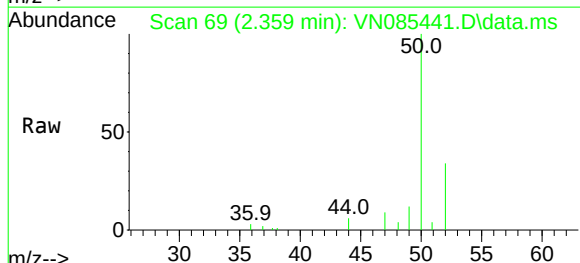
52 34.3 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#4

Vinyl Chloride

Concen: 9.653 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN085441.D

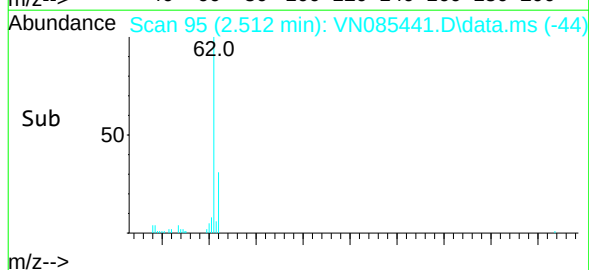
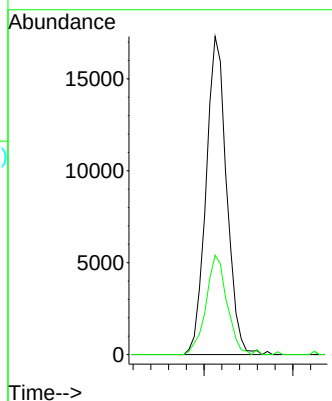
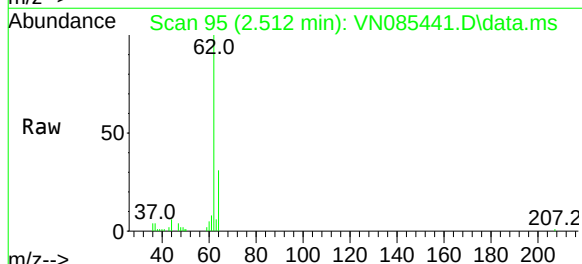
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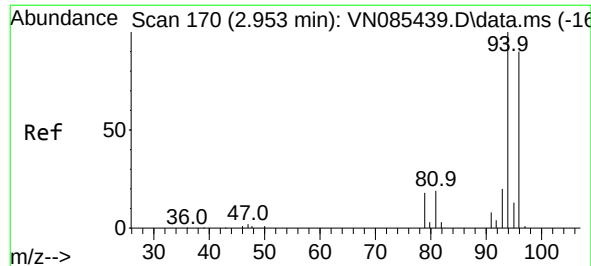
Tgt Ion: 62 Resp: 27862

Ion Ratio Lower Upper

62 100

64 31.2 24.8 37.2





#5

Bromomethane

Concen: 9.830 ug/l

RT: 2.965 min Scan# 171

Delta R.T. 0.012 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 94 Resp: 17139

Ion Ratio Lower Upper

94 100

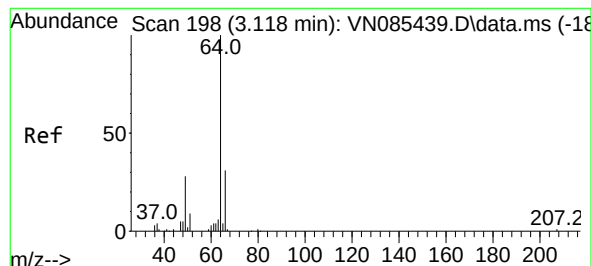
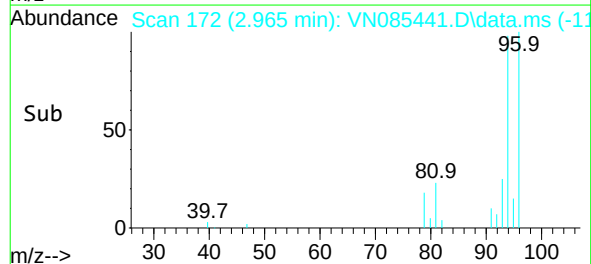
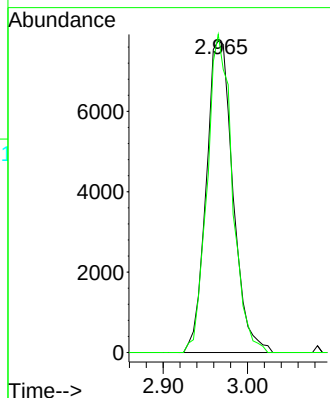
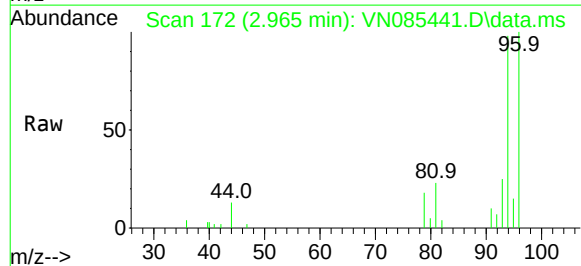
96 102.1 71.8 107.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#6

Chloroethane

Concen: 9.175 ug/l

RT: 3.130 min Scan# 200

Delta R.T. 0.012 min

Lab File: VN085441.D

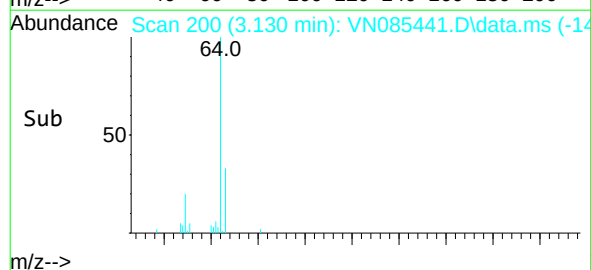
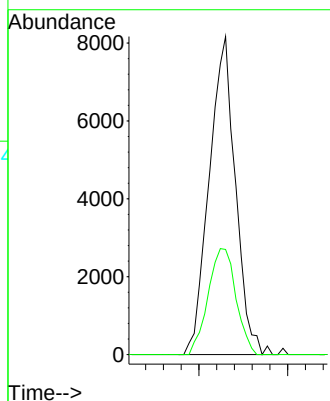
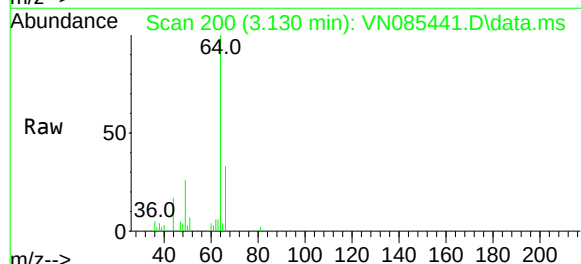
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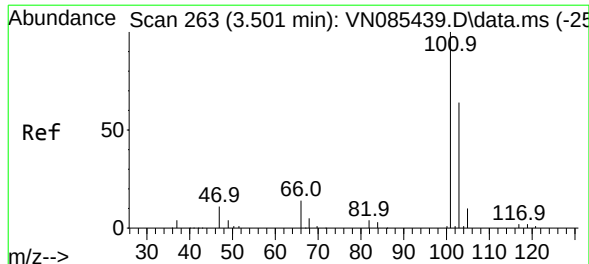
Tgt Ion: 64 Resp: 16791

Ion Ratio Lower Upper

64 100

66 33.1 24.6 36.8





#7

Trichlorofluoromethane

Concen: 9.731 ug/l

RT: 3.501 min Scan# 263

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion:101 Resp: 40755

Ion Ratio Lower Upper

101 100

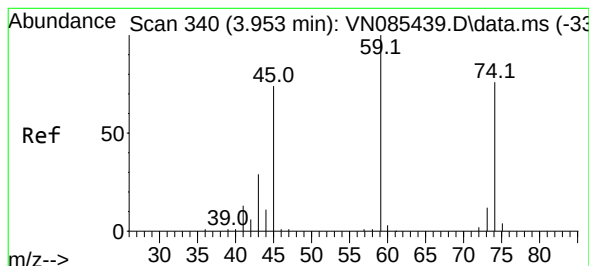
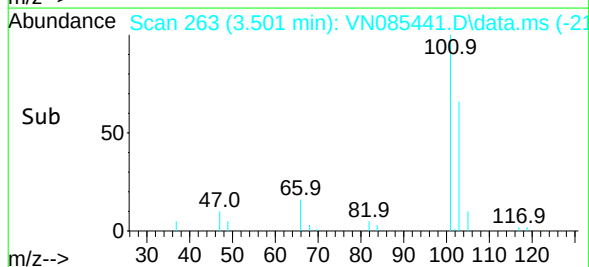
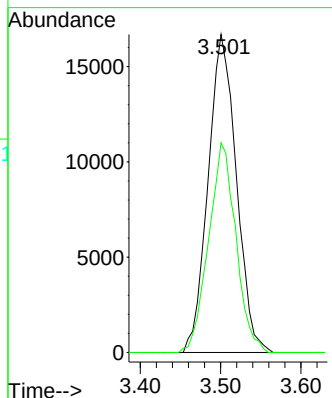
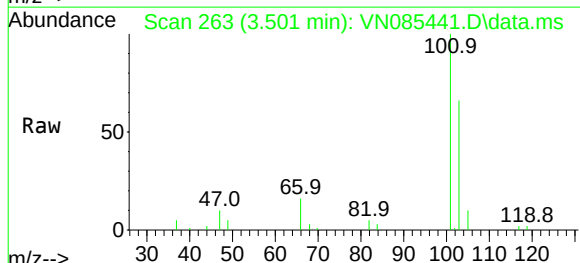
103 65.9 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#8

Diethyl Ether

Concen: 8.581 ug/l

RT: 3.953 min Scan# 340

Delta R.T. 0.000 min

Lab File: VN085441.D

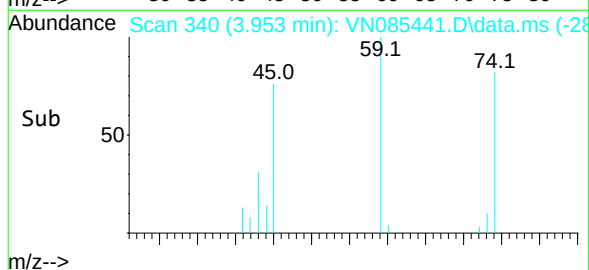
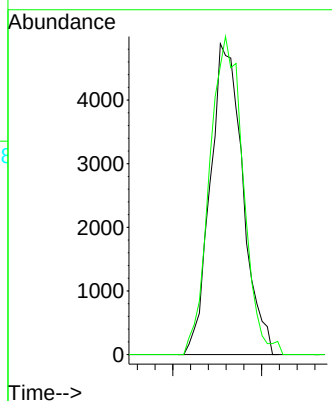
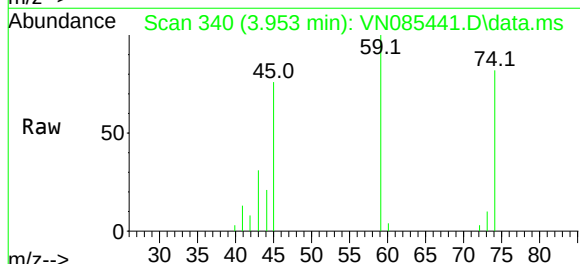
Acq: 14 Jan 2025 16:07

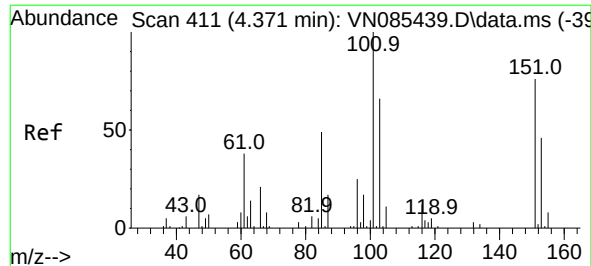
Tgt Ion: 74 Resp: 12415

Ion Ratio Lower Upper

74 100

45 105.3 49.7 149.1





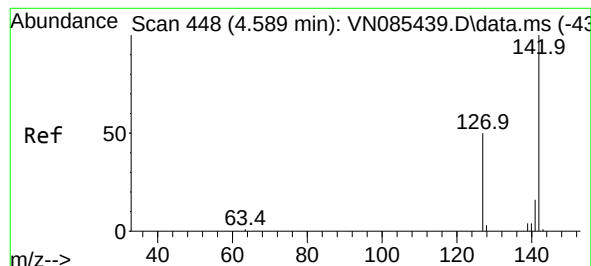
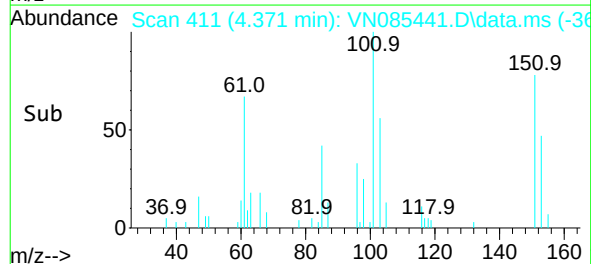
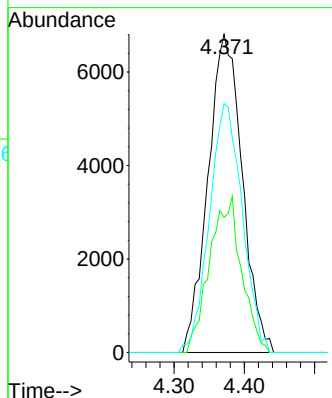
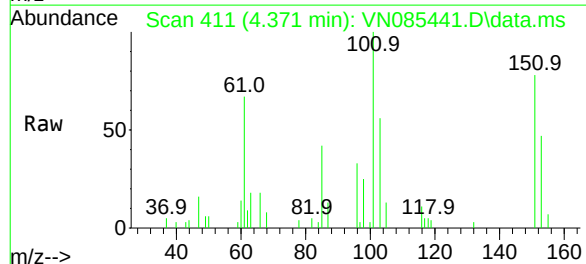
#9
1,1,2-Trichlorotrifluoroethane
Concen: 9.742 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tgt Ion	101	Resp	22982
Ion Ratio	100	Lower	Upper
101	100		
85	45.8	37.8	56.8
151	75.2	58.8	88.2

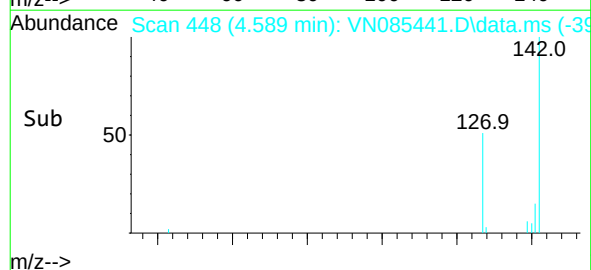
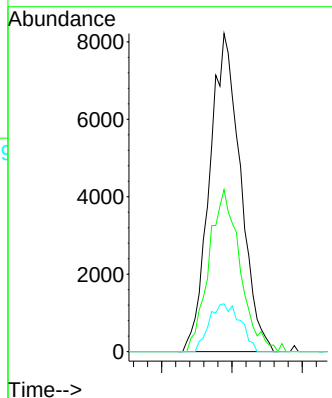
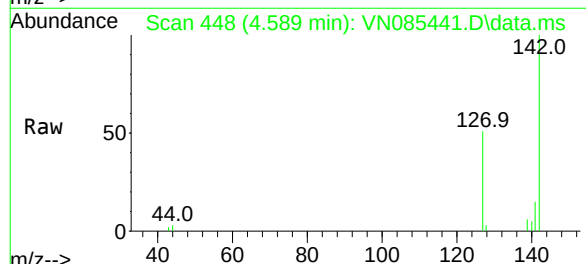
Manual Integrations
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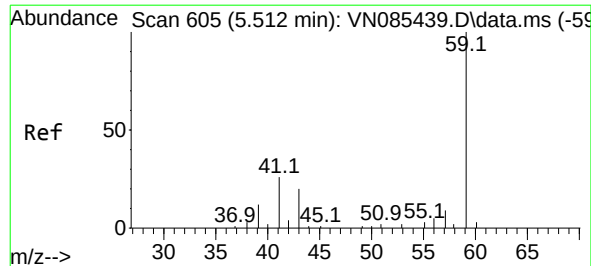
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#10
Methyl Iodide
Concen: 9.286 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion	142	Resp	25085
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
142	100		
127	50.9	40.3	60.5
141	15.0	12.8	19.2





#11

Tert butyl alcohol

Concen: 49.608 ug/l

RT: 5.512 min Scan# 605

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 59 Resp: 17962

Ion Ratio Lower Upper

59 100

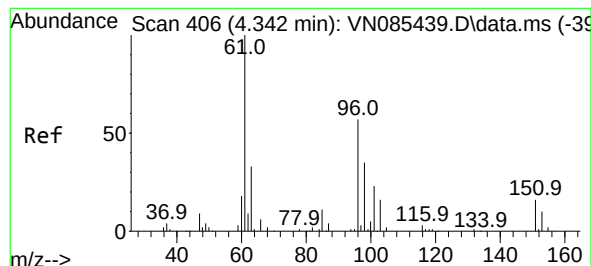
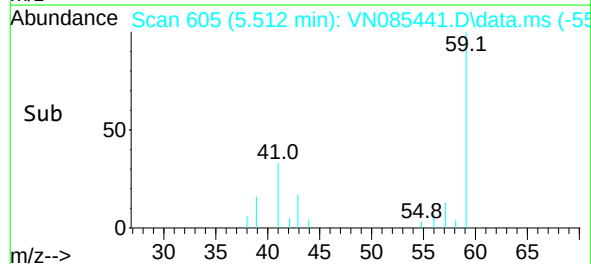
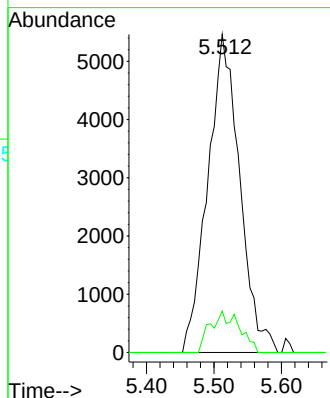
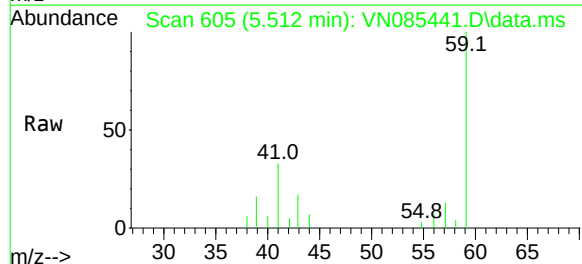
57 11.9 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#12

1,1-Dichloroethene

Concen: 9.806 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

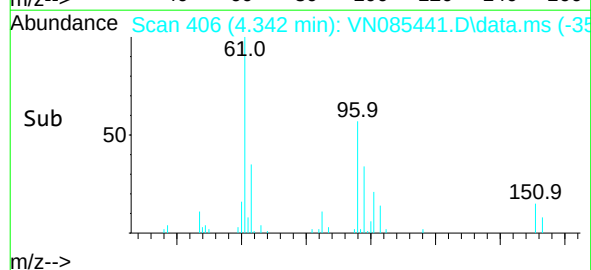
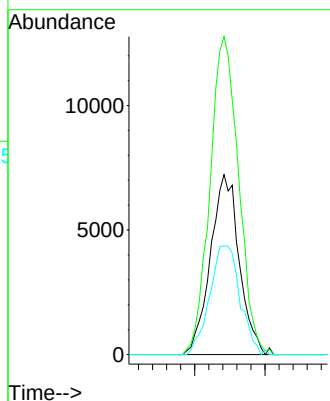
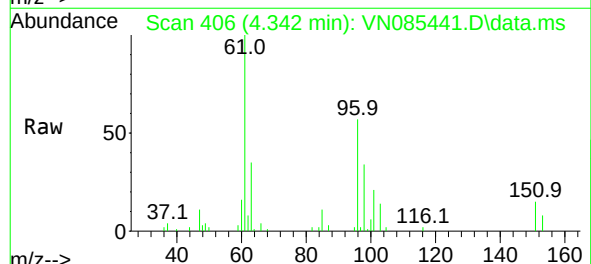
Tgt Ion: 96 Resp: 20615

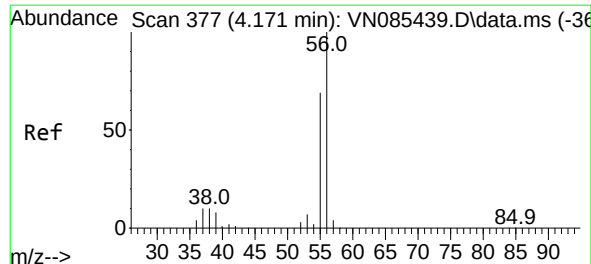
Ion Ratio Lower Upper

96 100

61 176.8 141.0 211.4

98 60.5 49.0 73.6





#13

Acrolein

Concen: 51.729 ug/l

RT: 4.177 min Scan# 377

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 56 Resp: 25568

Ion Ratio Lower Upper

56 100

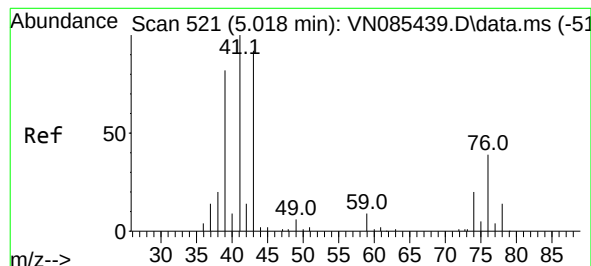
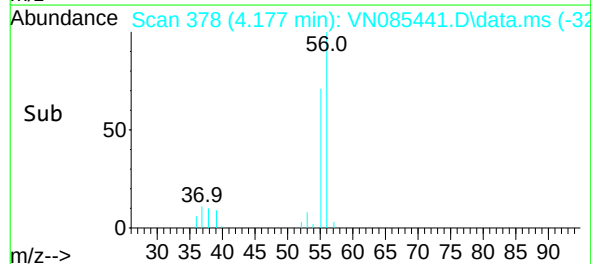
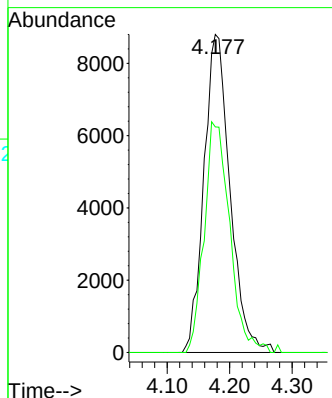
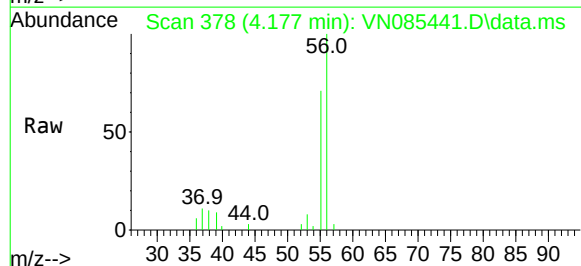
55 70.9 56.3 84.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#14

Allyl chloride

Concen: 9.451 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

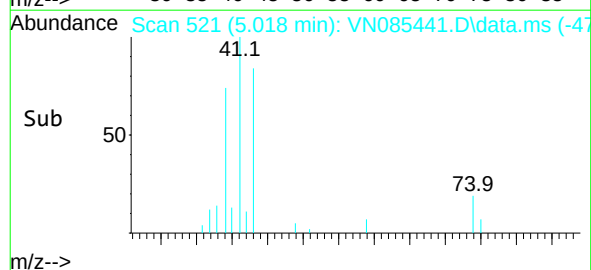
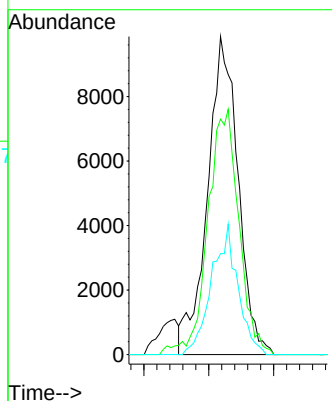
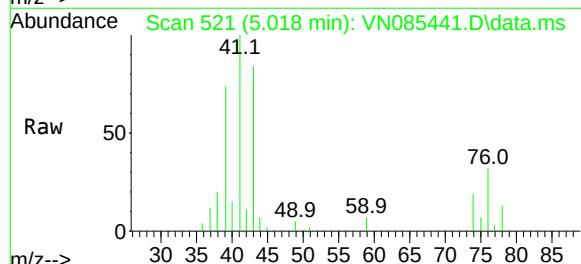
Tgt Ion: 41 Resp: 32240

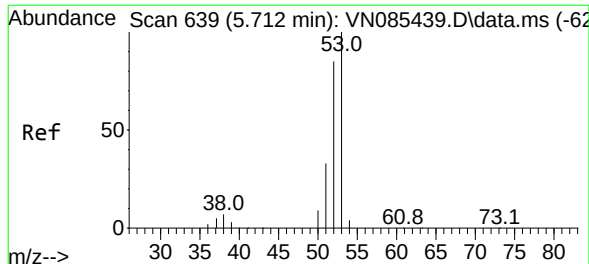
Ion Ratio Lower Upper

41 100

39 78.3 64.4 96.6

76 35.1 30.5 45.7





#15

Acrylonitrile

Concen: 46.918 ug/l

RT: 5.712 min Scan# 63

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

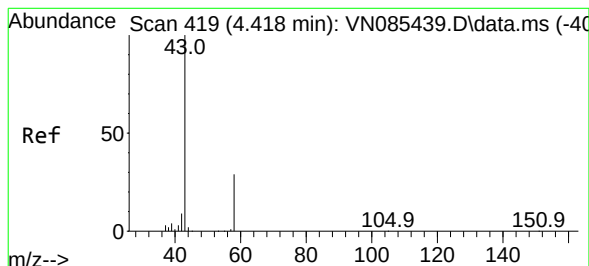
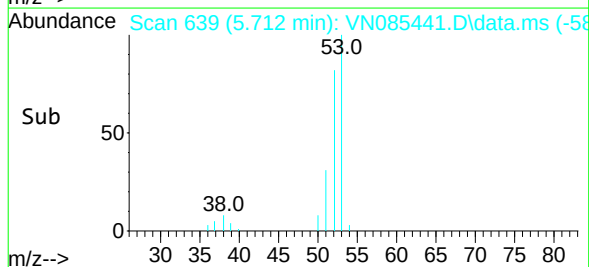
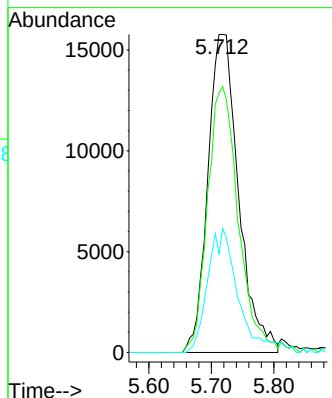
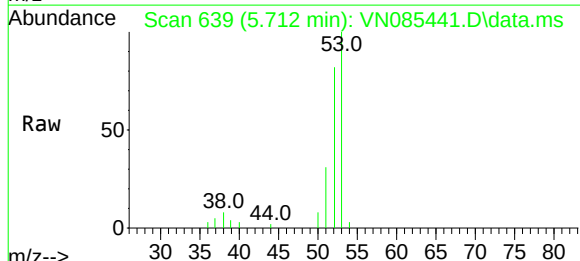
ClientSampleId :

VSTDIC010

Tgt Ion:	53	Resp:	53959
Ion	Ratio	Lower	Upper
53	100		
52	83.3	65.5	98.3
51	38.8	29.8	44.8

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Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#16

Acetone

Concen: 47.446 ug/l

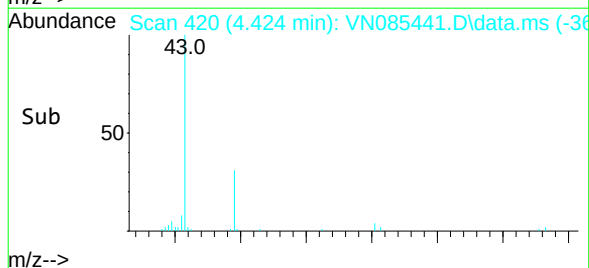
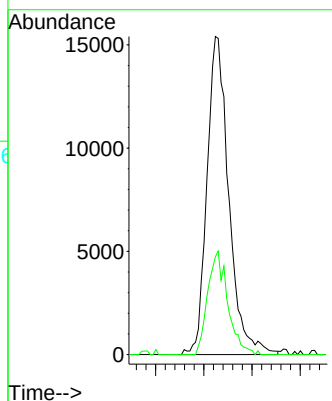
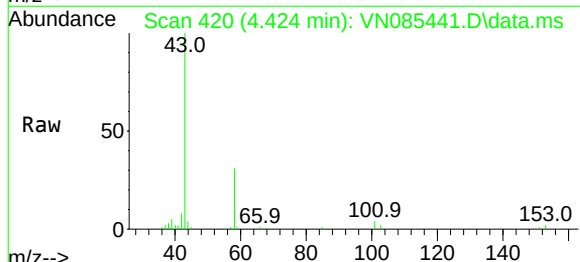
RT: 4.424 min Scan# 420

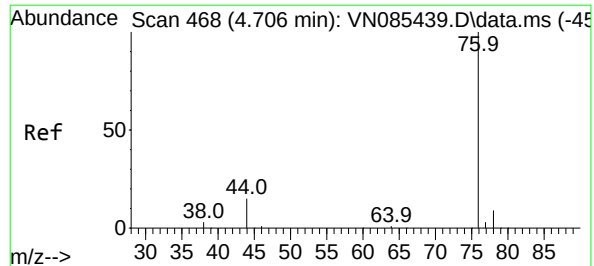
Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	43	Resp:	48475
Ion	Ratio	Lower	Upper
43	100		
58	30.8	23.8	35.6





#17

Carbon Disulfide

Concen: 9.300 ug/l

RT: 4.712 min Scan# 46

Delta R.T. 0.006 min

Lab File: VN085441.D

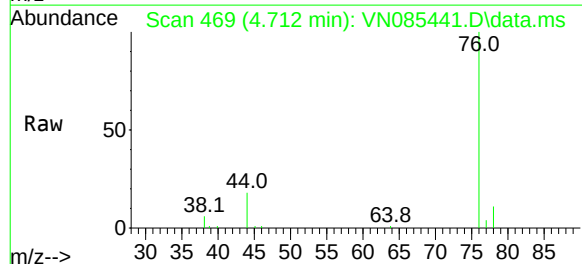
Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010



Tgt Ion: 76 Resp: 60201

Ion Ratio Lower Upper

76 100

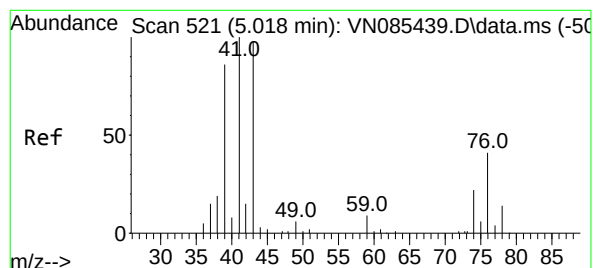
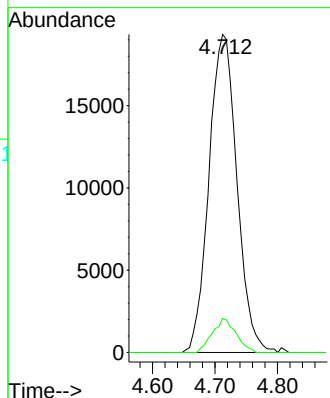
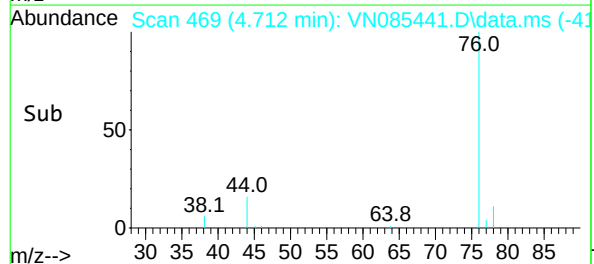
78 10.7 6.9 10.3#

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#18

Methyl Acetate

Concen: 9.817 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN085441.D

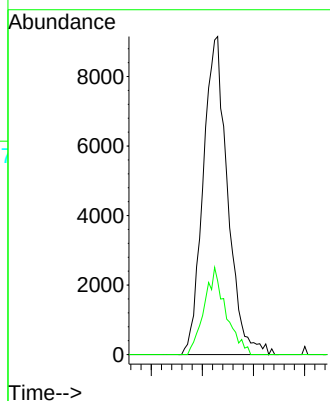
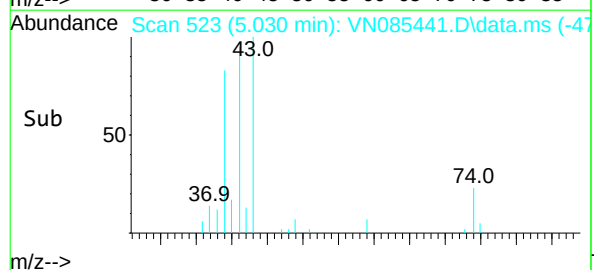
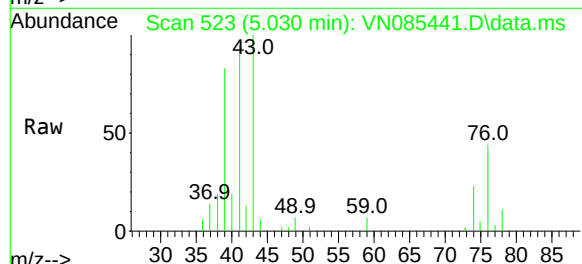
Acq: 14 Jan 2025 16:07

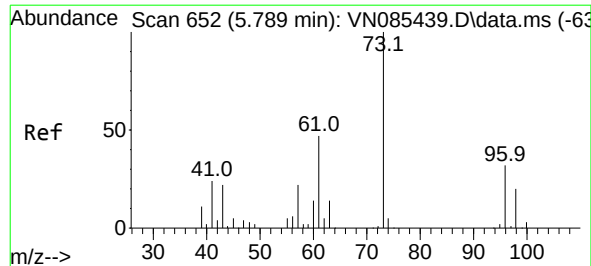
Tgt Ion: 43 Resp: 30500

Ion Ratio Lower Upper

43 100

74 24.3 18.6 28.0





#19

Methyl tert-butyl Ether

Concen: 9.552 ug/l

RT: 5.789 min Scan# 65

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 73 Resp: 65207

Ion Ratio Lower Upper

73 100

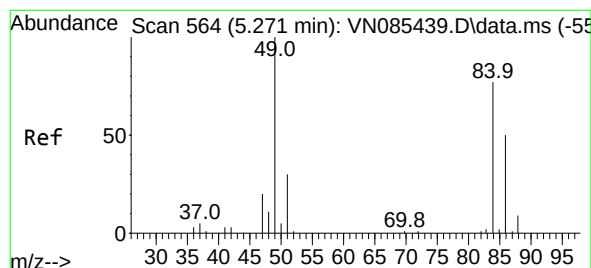
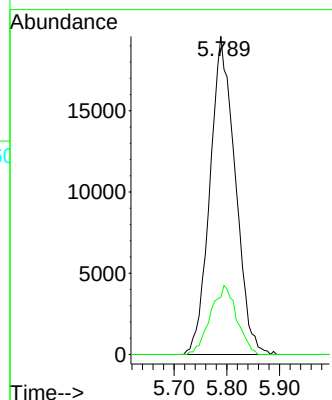
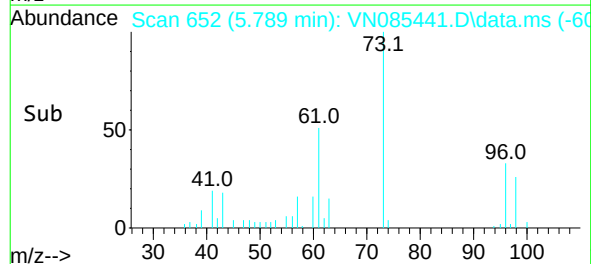
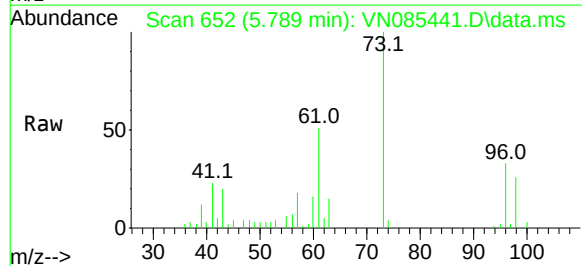
57 18.1 17.8 26.8

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#20

Methylene Chloride

Concen: 9.379 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion: 84 Resp: 23723

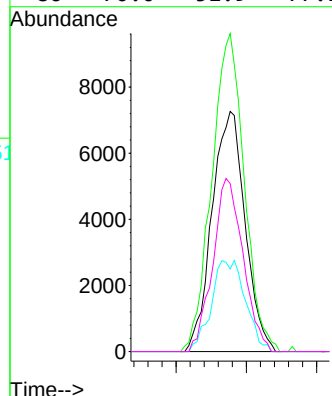
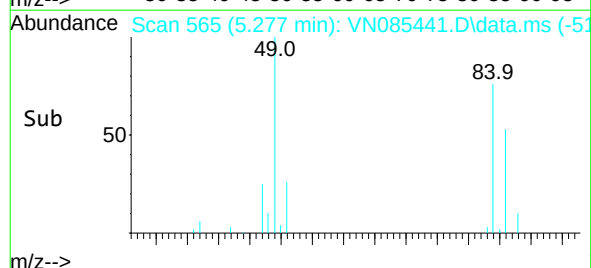
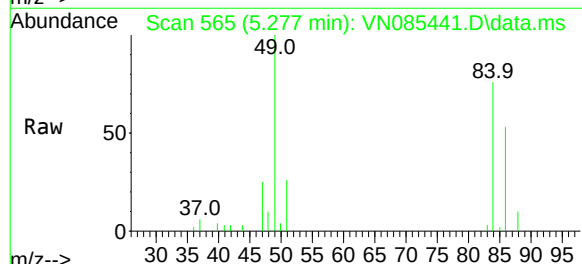
Ion Ratio Lower Upper

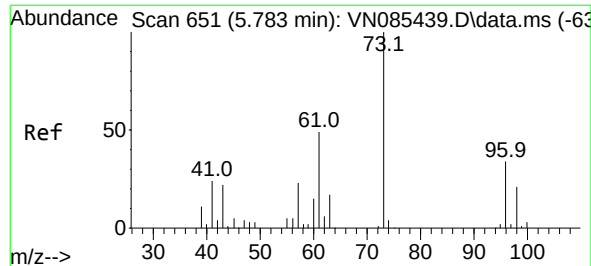
84 100

49 132.4 104.1 156.1

51 34.4 31.0 46.4

86 70.0 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 9.403 ug/l

RT: 5.783 min Scan# 651

Delta R.T. 0.000 min

Lab File: VN085441.D

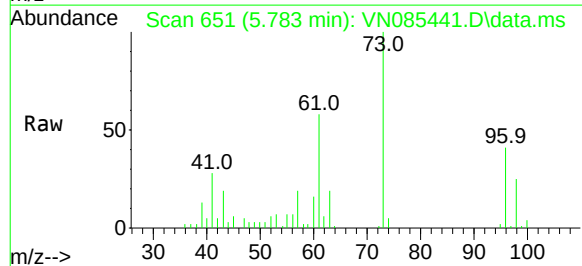
Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

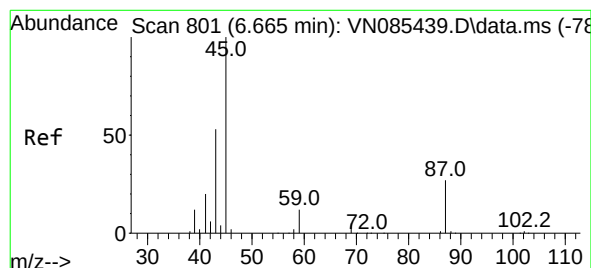
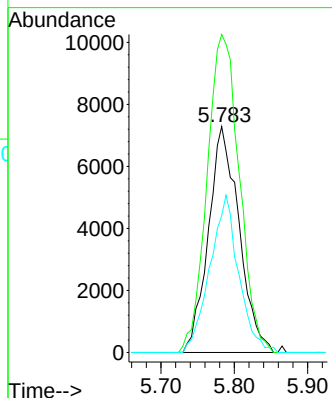
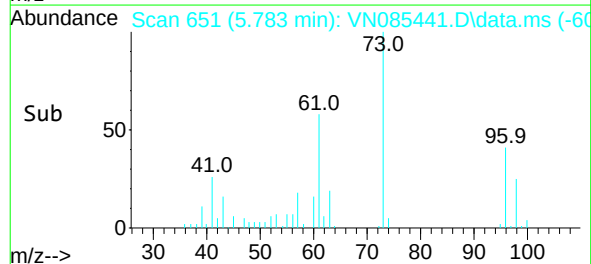
VSTDIC010



Tgt Ion:	96	Resp:	21127
Ion	Ratio	Lower	Upper
96	100		
61	140.8	115.7	173.5
98	60.5	49.8	74.8

Manual Integrations
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Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#22

Diisopropyl ether

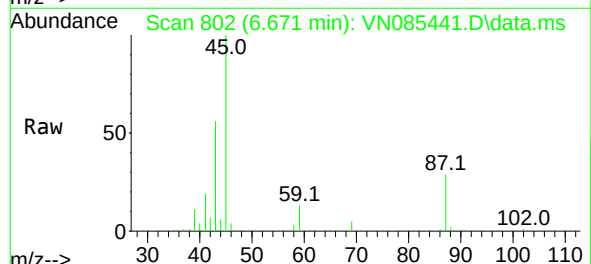
Concen: 9.490 ug/l

RT: 6.671 min Scan# 802

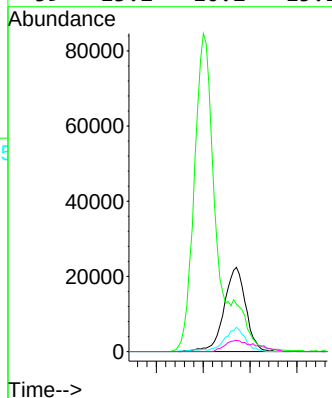
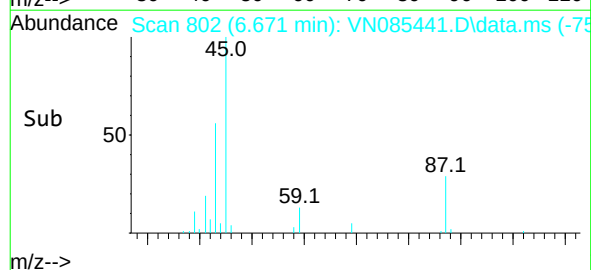
Delta R.T. 0.006 min

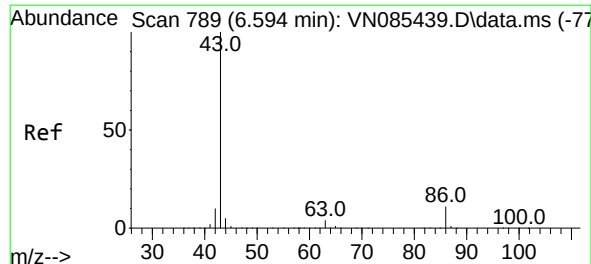
Lab File: VN085441.D

Acq: 14 Jan 2025 16:07



Tgt Ion:	45	Resp:	71857
Ion	Ratio	Lower	Upper
45	100		
43	53.2	45.0	67.6
87	28.8	21.8	32.8
59	13.2	10.2	15.2





#23

Vinyl Acetate

Concen: 47.125 ug/l

RT: 6.600 min Scan# 790

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 43 Resp: 250575

Ion Ratio Lower Upper

43 100

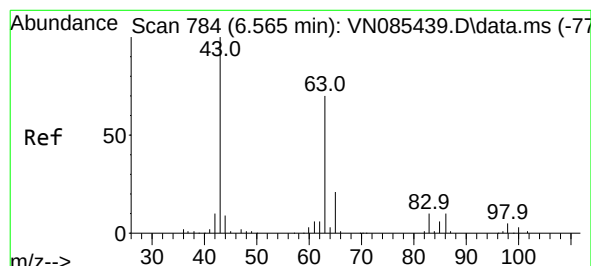
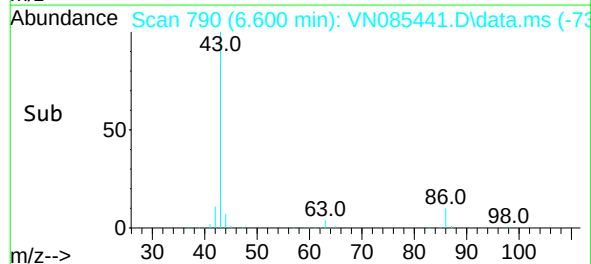
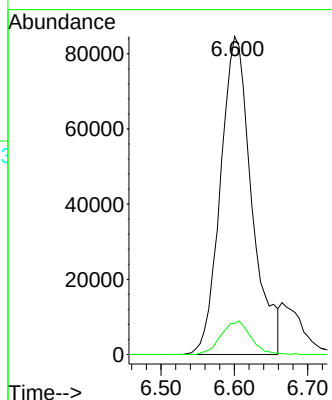
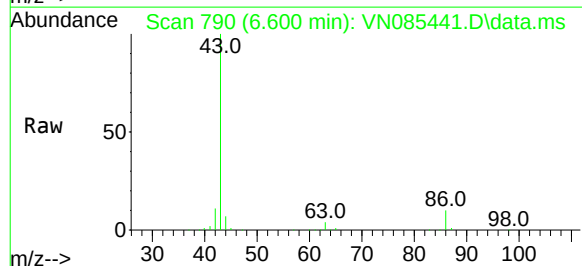
86 9.8 8.4 12.6

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#24

1,1-Dichloroethane

Concen: 9.335 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

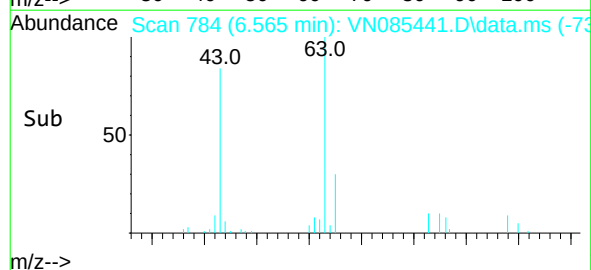
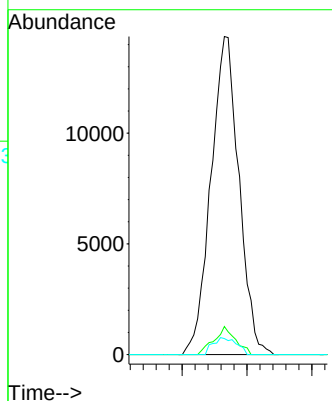
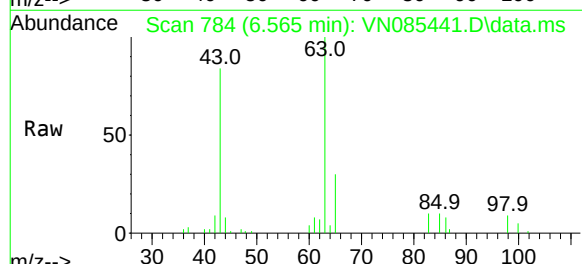
Tgt Ion: 63 Resp: 43099

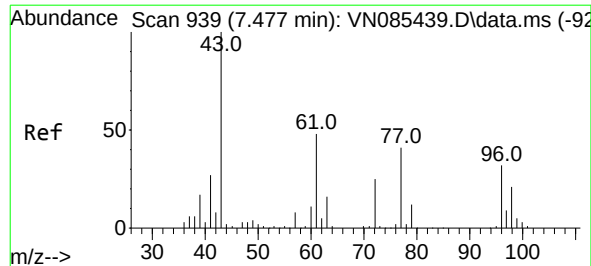
Ion Ratio Lower Upper

63 100

98 8.8 3.3 9.8

100 5.0 2.0 6.0





#25

2-Butanone

Concen: 47.350 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 71191

Ion Ratio Lower Upper

43 100

72 24.8 20.2 30.4

Instrument :

MSVOA_N

ClientSampleId :

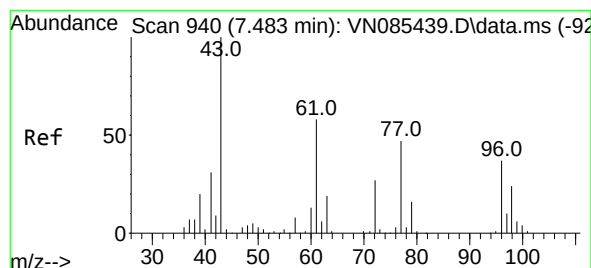
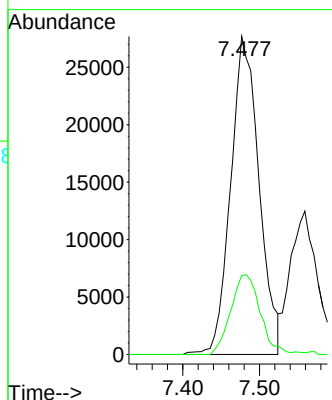
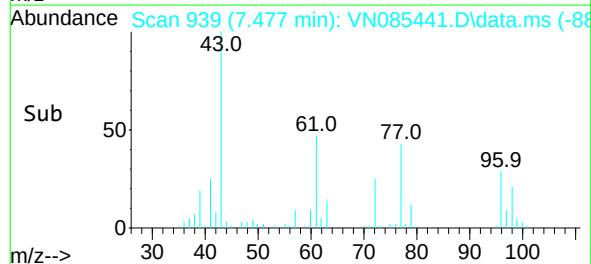
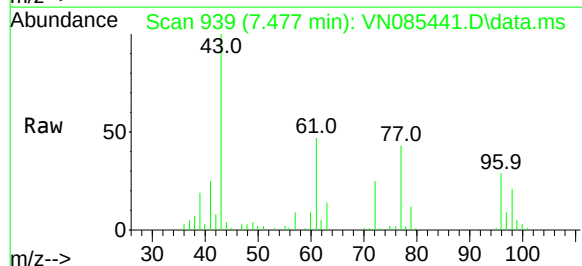
VSTDIC010

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#26

2,2-Dichloropropane

Concen: 9.672 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085441.D

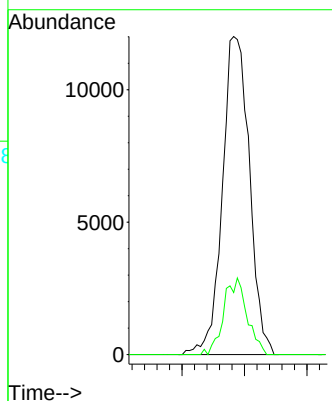
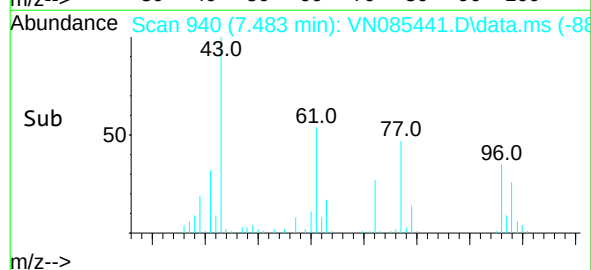
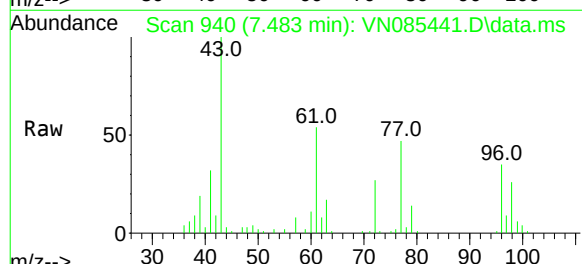
Acq: 14 Jan 2025 16:07

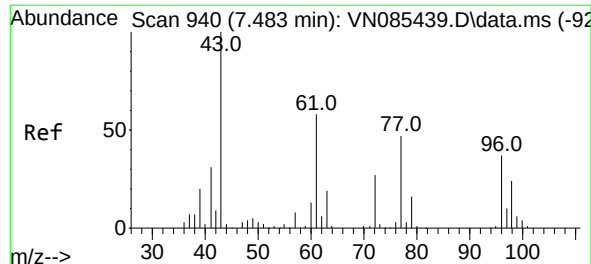
Tgt Ion: 77 Resp: 36105

Ion Ratio Lower Upper

77 100

97 20.8 10.7 32.1





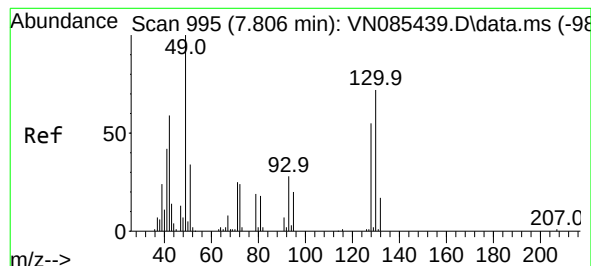
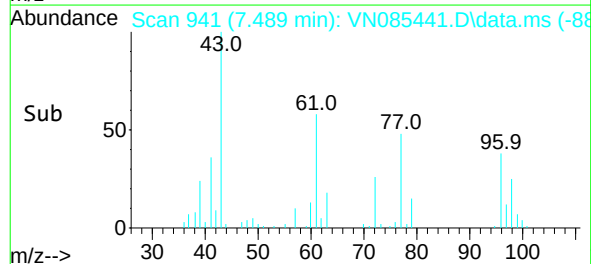
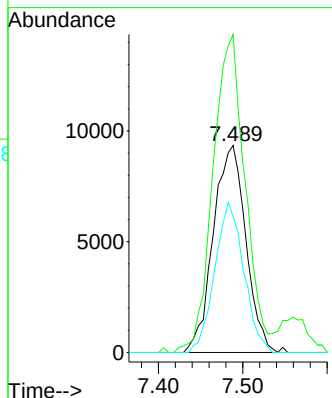
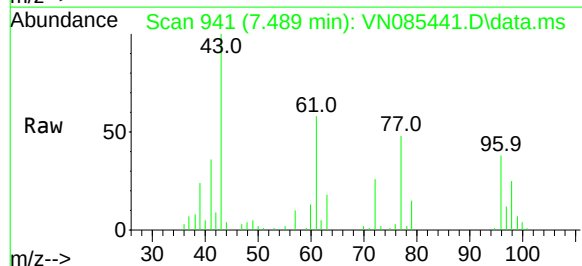
#27
 cis-1,2-Dichloroethene
 Concen: 9.466 ug/l
 RT: 7.489 min Scan# 940
 Delta R.T. 0.006 min
 Lab File: VN085441.D
 Acq: 14 Jan 2025 16:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

Tgt Ion: 96 Resp: 25049
 Ion Ratio Lower Upper
 96 100
 61 151.8 0.0 311.8
 98 64.7 0.0 126.0

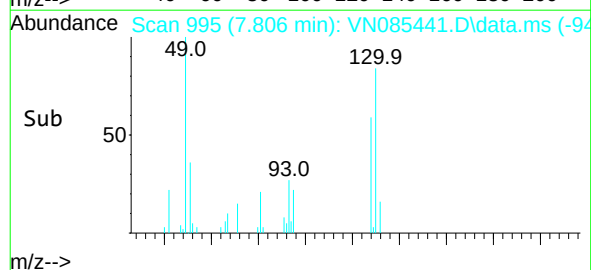
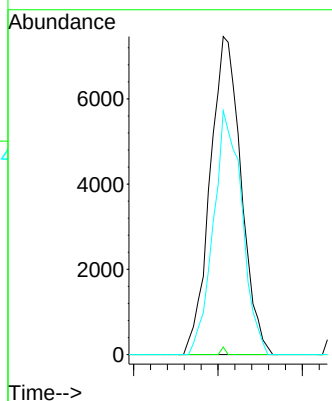
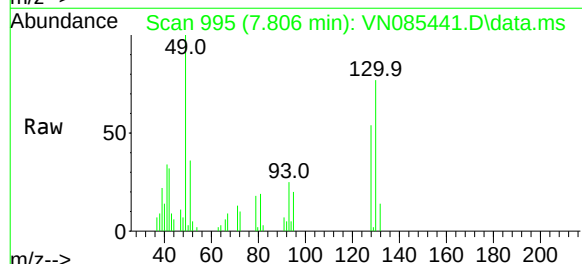
Manual Integrations
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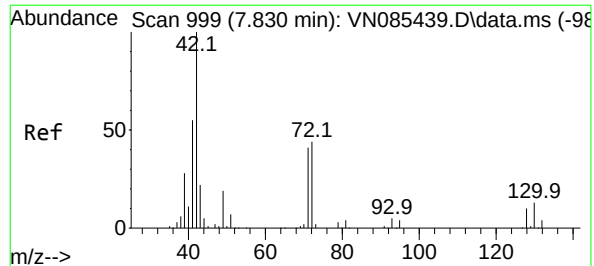
Reviewed By :John Carlone 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025



#28
 Bromochloromethane
 Concen: 8.863 ug/l
 RT: 7.806 min Scan# 995
 Delta R.T. 0.000 min
 Lab File: VN085441.D
 Acq: 14 Jan 2025 16:07

Tgt Ion: 49 Resp: 19037
 Ion Ratio Lower Upper
 49 100
 129 0.3 0.0 4.4
 130 70.8 55.0 82.4





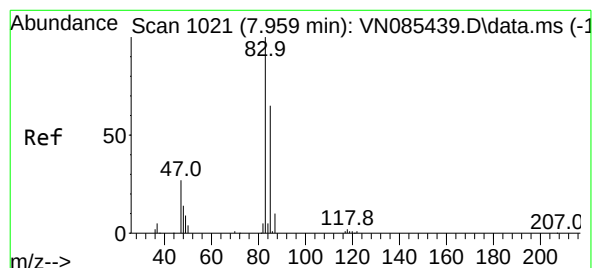
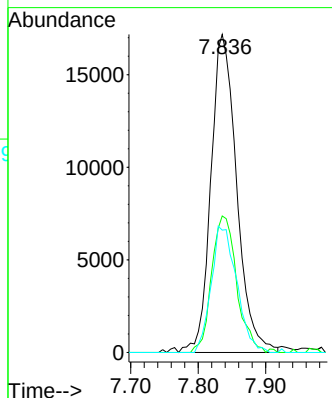
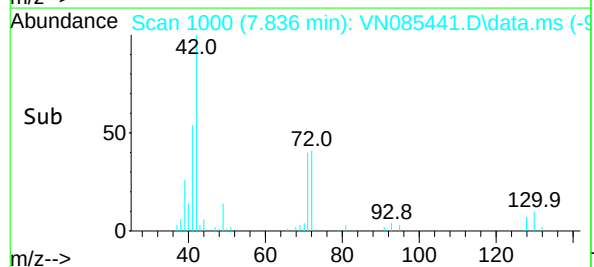
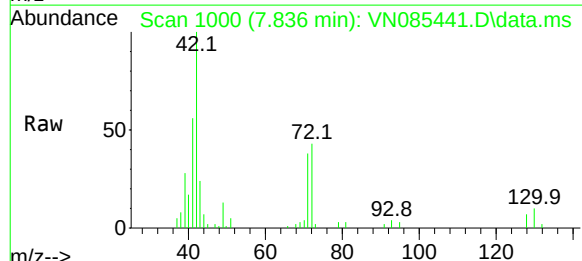
#29
Tetrahydrofuran
Concen: 47.881 ug/l
RT: 7.836 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 42 Resp: 45641
Ion Ratio Lower Upper
42 100
72 41.6 34.2 51.2
71 39.2 32.5 48.7

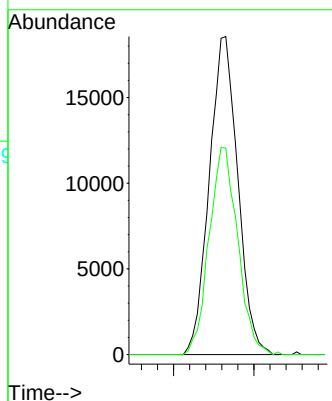
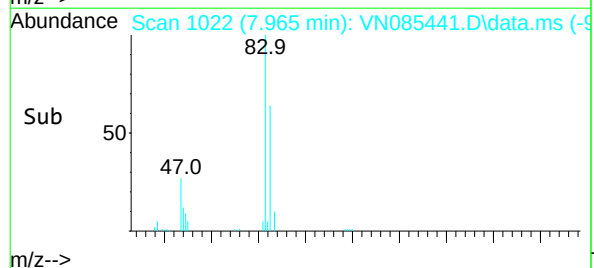
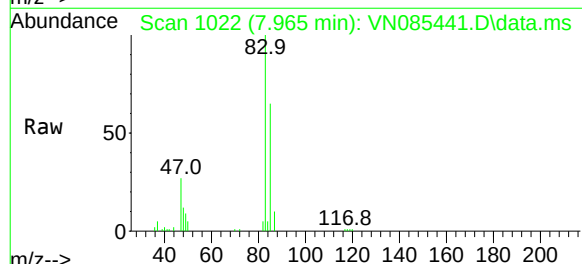
Manual Integrations
APPROVED

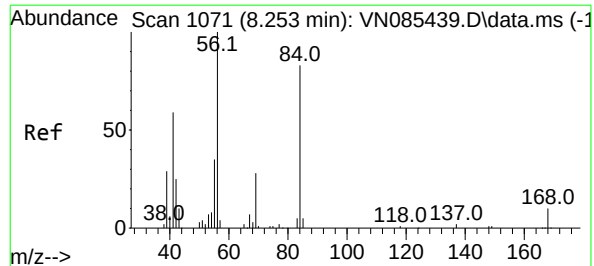
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#30
Chloroform
Concen: 9.596 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 83 Resp: 45792
Ion Ratio Lower Upper
83 100
85 64.9 51.8 77.6





#31

Cyclohexane

Concen: 10.020 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 56 Resp: 40211

Ion Ratio Lower Upper

56 100

69 34.2 22.2 33.4

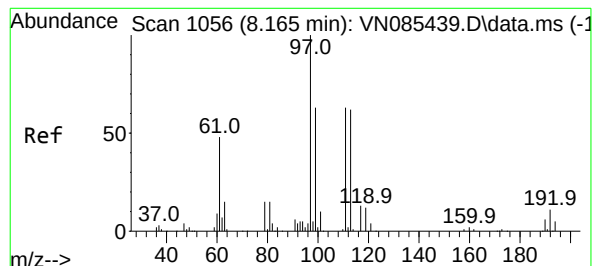
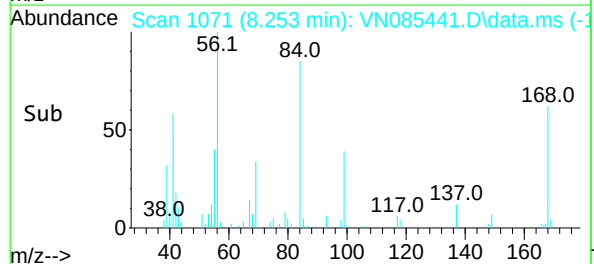
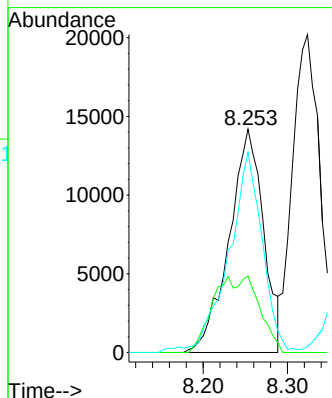
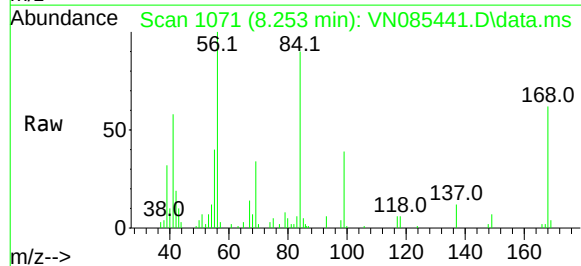
84 87.2 66.4 99.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#32

1,1,1-Trichloroethane

Concen: 9.358 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

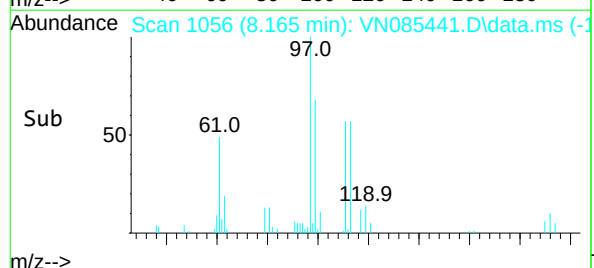
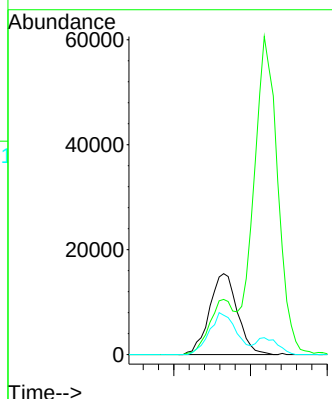
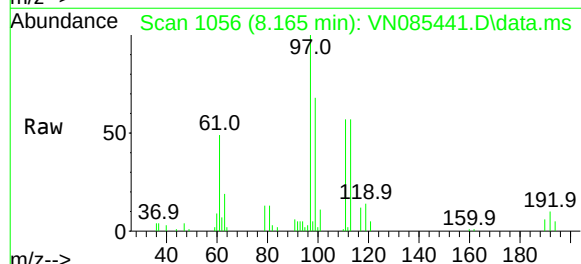
Tgt Ion: 97 Resp: 39170

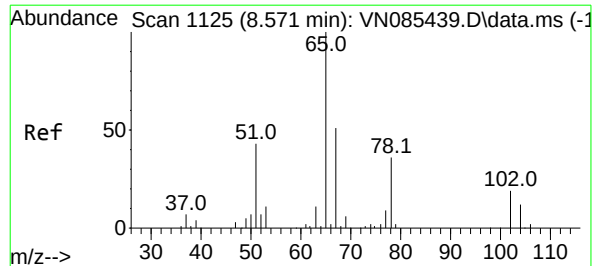
Ion Ratio Lower Upper

97 100

99 62.6 49.8 74.6

61 50.2 41.4 62.2





#33

1,2-Dichloroethane-d4

Concen: 9.442 ug/l

RT: 8.571 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 65 Resp: 29856

Ion Ratio Lower Upper

65 100

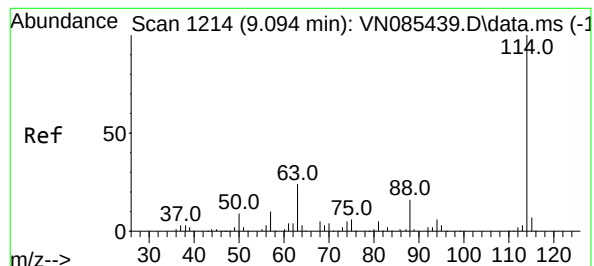
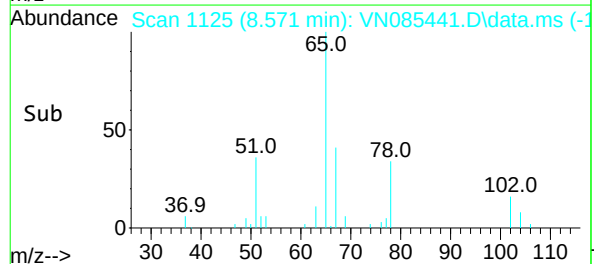
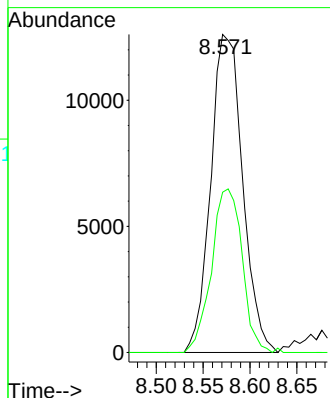
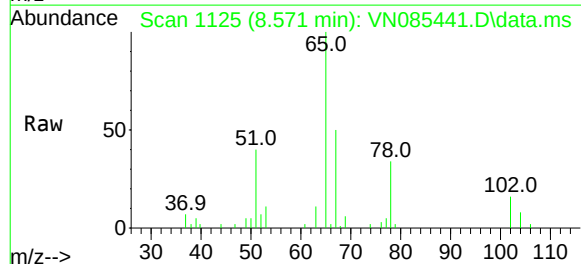
67 49.5 0.0 101.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

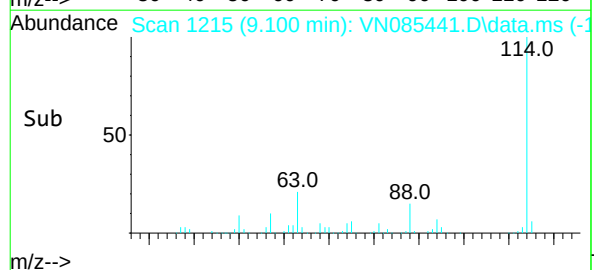
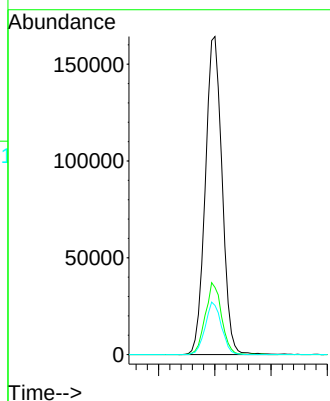
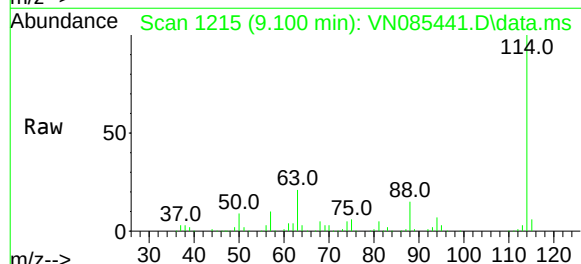
Tgt Ion:114 Resp: 340403

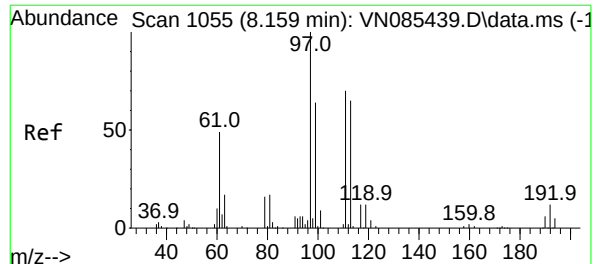
Ion Ratio Lower Upper

114 100

63 21.1 0.0 47.6

88 15.5 0.0 32.6





#35

Dibromofluoromethane

Concen: 8.939 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 113 Resp: 21110

Ion Ratio Lower Upper

113 100

111 103.4 82.7 124.1

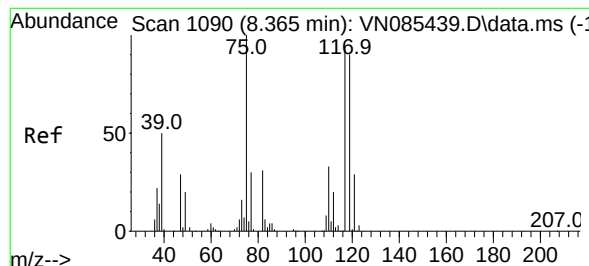
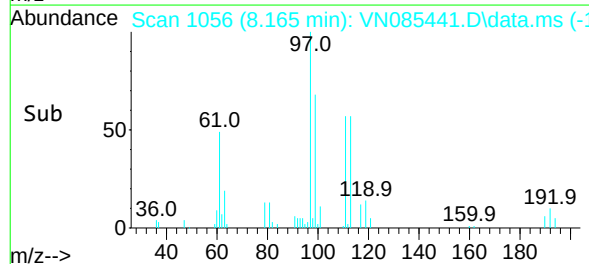
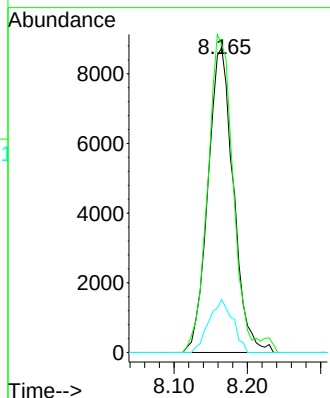
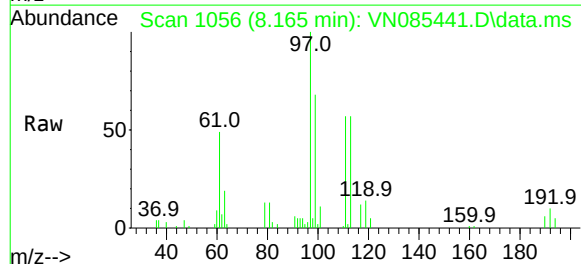
192 16.4 14.3 21.5

Manual Integrations

APPROVED

Reviewed By : John Carlone 01/15/2025

Supervised By : Mahesh Dadoda 01/15/2025



#36

1,1-Dichloropropene

Concen: 9.056 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

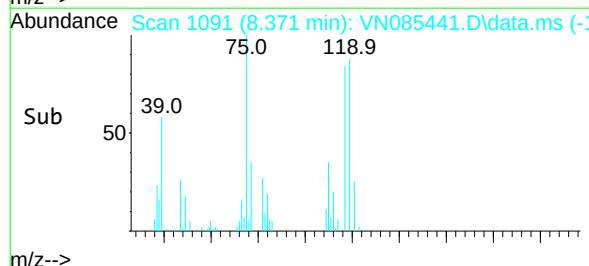
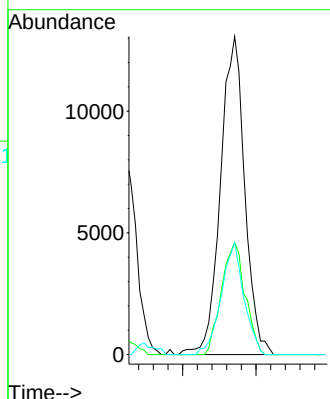
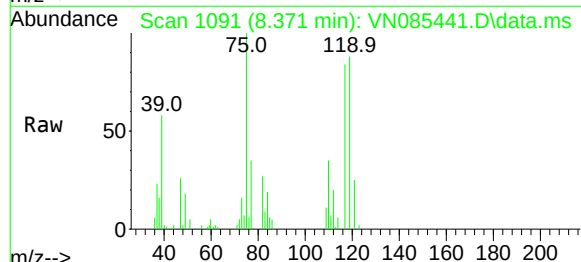
Tgt Ion: 75 Resp: 30015

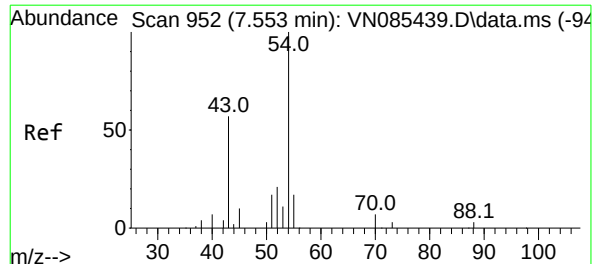
Ion Ratio Lower Upper

75 100

110 34.3 16.5 49.5

77 32.9 24.4 36.6





#37

Ethyl Acetate

Concen: 9.195 ug/l

RT: 7.559 min Scan# 952

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

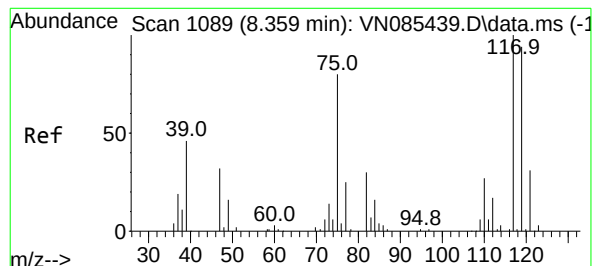
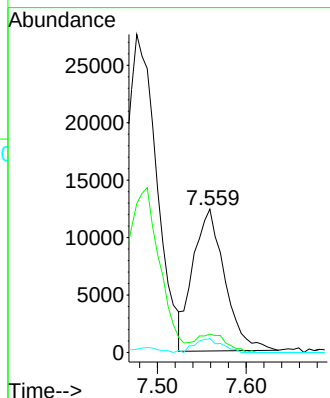
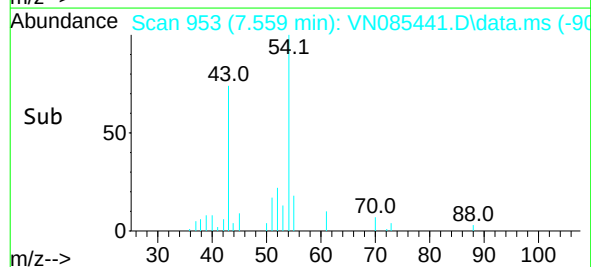
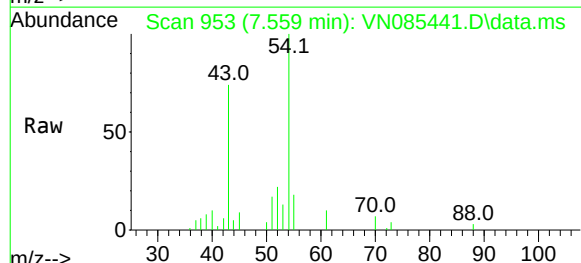
ClientSampleId :

VSTDICC010

Tgt Ion:	43	Resp:	30760
Ion	Ratio	Lower	Upper
43	100		
61	12.2	10.9	16.3
70	8.4	7.5	11.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#38

Carbon Tetrachloride

Concen: 9.492 ug/l

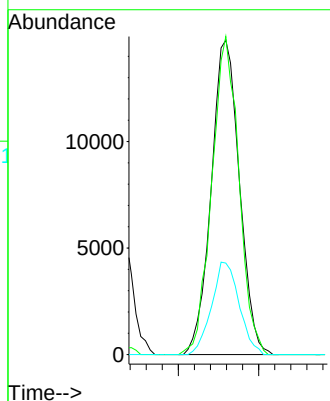
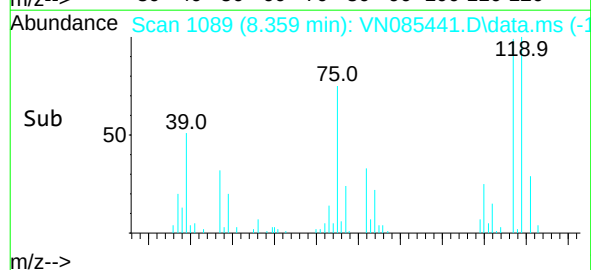
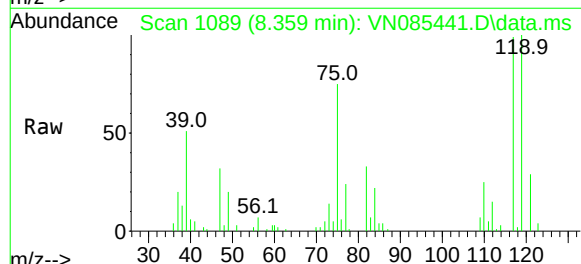
RT: 8.359 min Scan# 1089

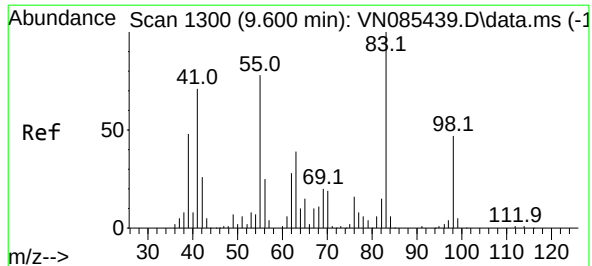
Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	117	Resp:	36015
Ion	Ratio	Lower	Upper
117	100		
119	101.2	75.4	113.2
121	29.1	24.6	37.0





#39

Methylcyclohexane

Concen: 8.900 ug/l

RT: 9.594 min Scan# 12

Delta R.T. -0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 83 Resp: 27721

Ion Ratio Lower Upper

83 100

55 83.8 62.6 94.0

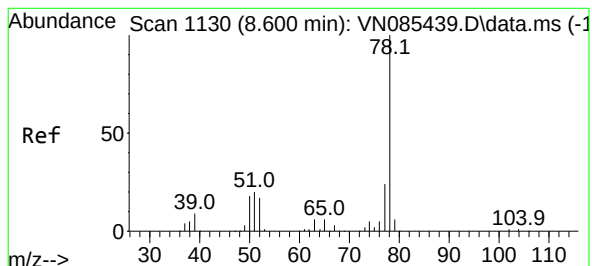
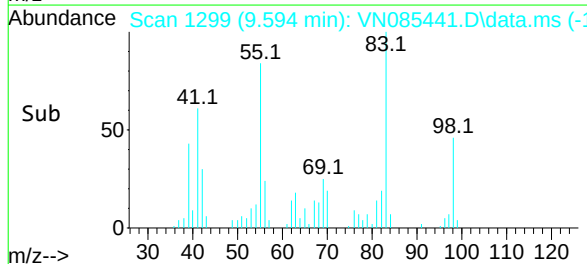
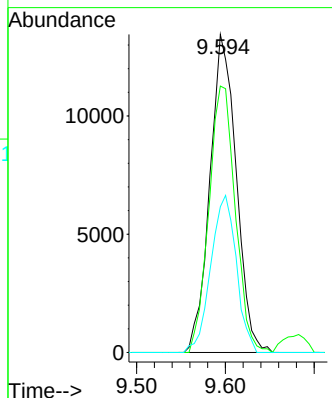
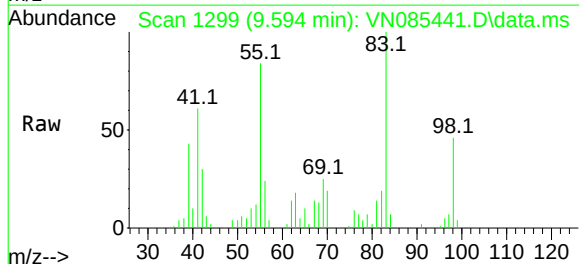
98 45.8 37.7 56.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#40

Benzene

Concen: 9.407 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085441.D

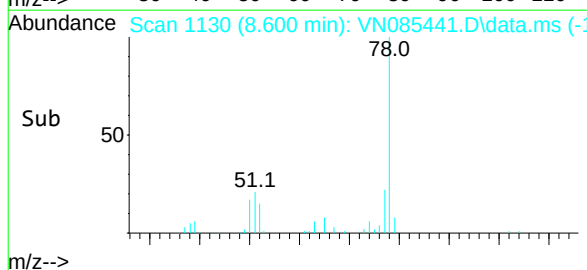
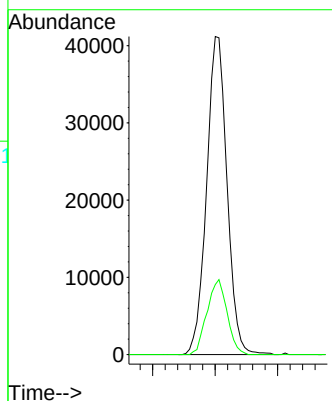
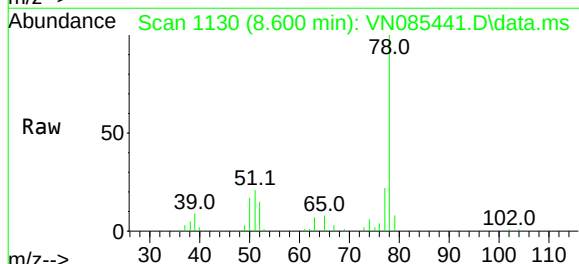
Acq: 14 Jan 2025 16:07

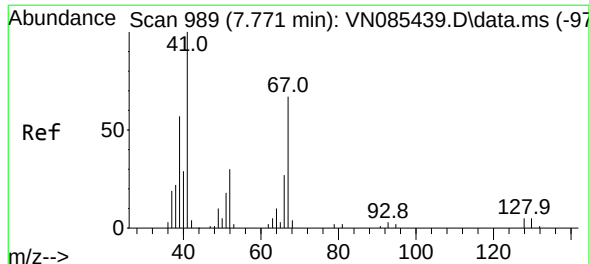
Tgt Ion: 78 Resp: 93680

Ion Ratio Lower Upper

78 100

77 22.0 19.0 28.6





#41

Methacrylonitrile

Concen: 9.686 ug/l

RT: 7.777 min Scan# 990

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

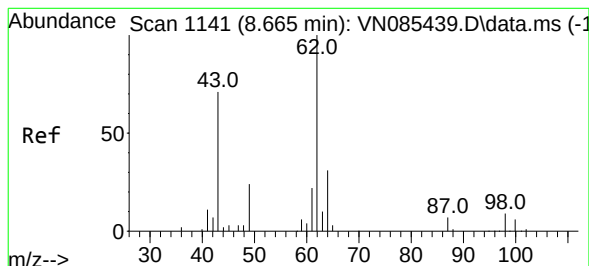
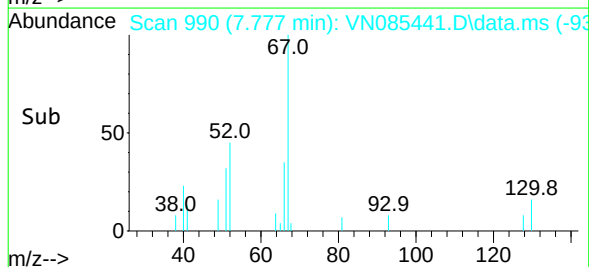
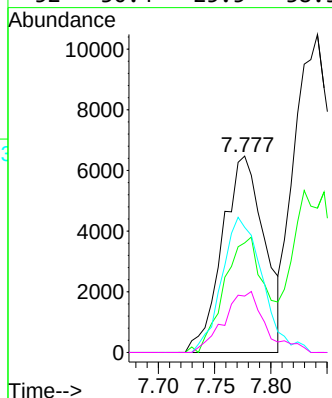
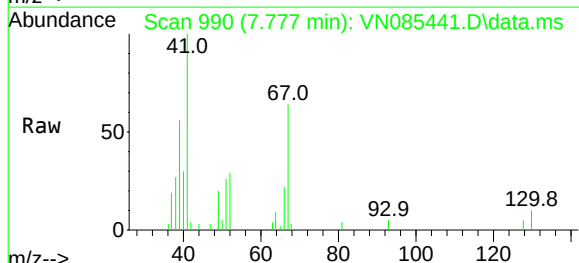
VSTDICC010

Tgt Ion:	41	Resp:	16859
Ion	Ratio	Lower	Upper
41	100		
39	57.3	46.0	69.0
67	66.2	57.4	86.2
52	30.4	25.5	38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#42

1,2-Dichloroethane

Concen: 9.483 ug/l

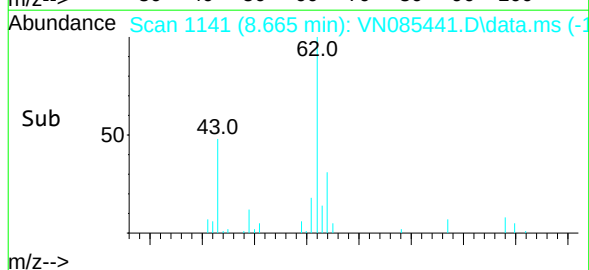
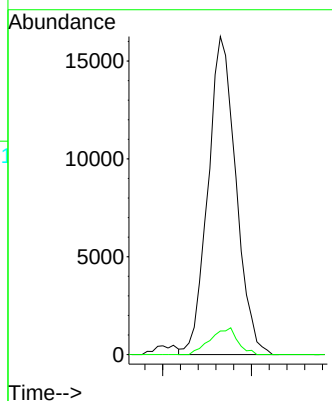
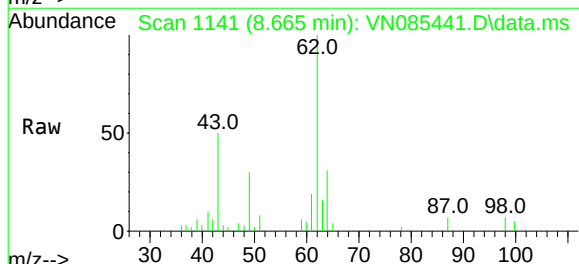
RT: 8.665 min Scan# 1141

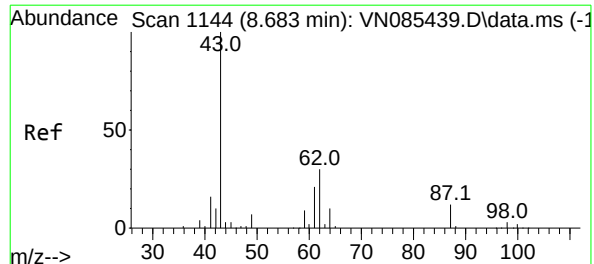
Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	62	Resp:	35569
Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	17.0





#43

Isopropyl Acetate

Concen: 9.127 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 48926

Ion Ratio Lower Upper

43 100

61 26.2 20.7 31.1

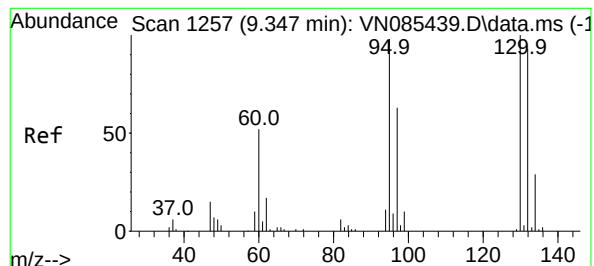
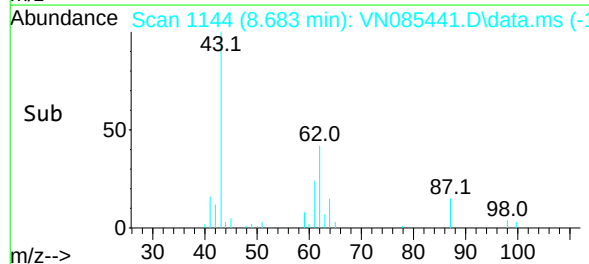
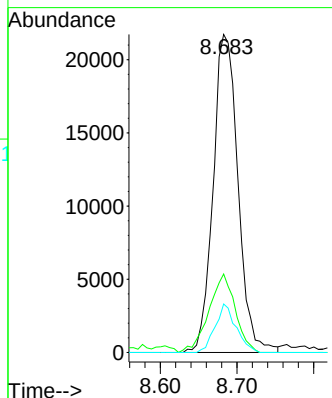
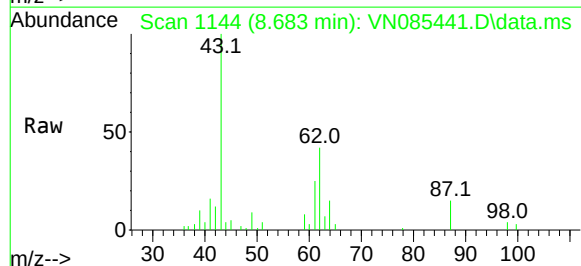
87 12.8 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#44

Trichloroethene

Concen: 9.108 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN085441.D

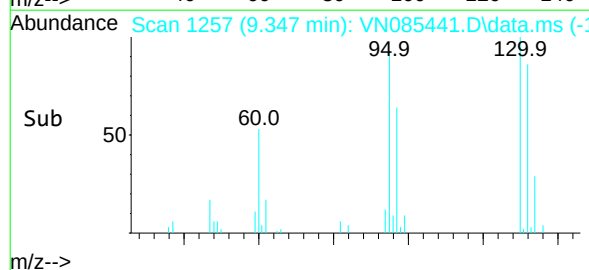
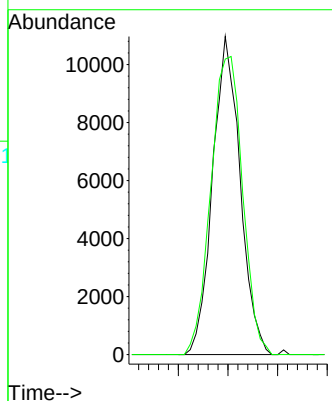
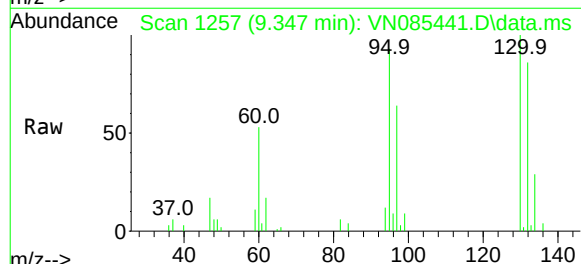
Acq: 14 Jan 2025 16:07

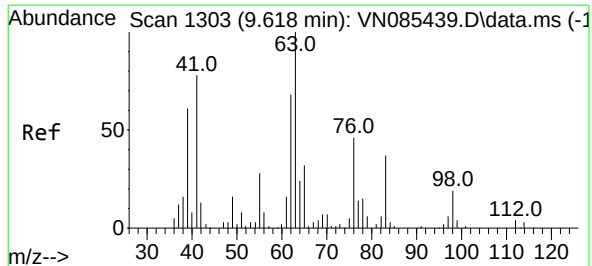
Tgt Ion:130 Resp: 21113

Ion Ratio Lower Upper

130 100

95 92.9 0.0 195.8





#45

1,2-Dichloropropane

Concen: 8.942 ug/l

RT: 9.618 min Scan# 13

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 63 Resp: 22747

Ion Ratio Lower Upper

63 100

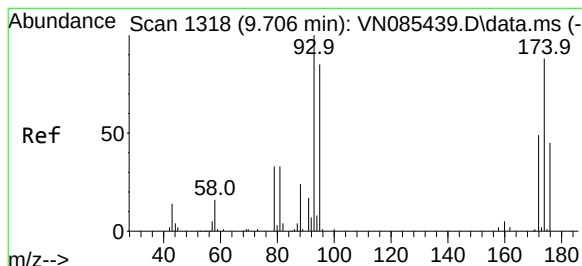
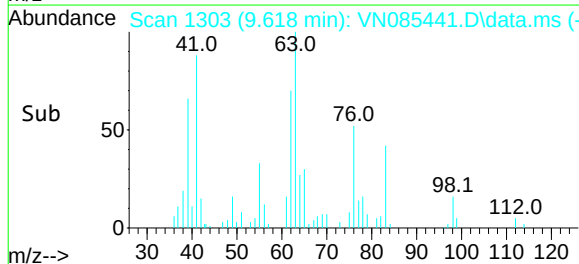
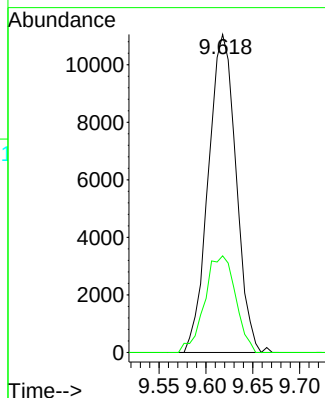
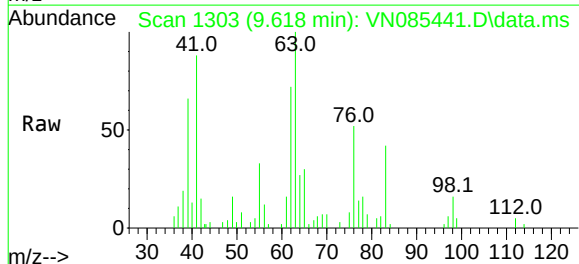
65 30.4 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#46

Dibromomethane

Concen: 9.404 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

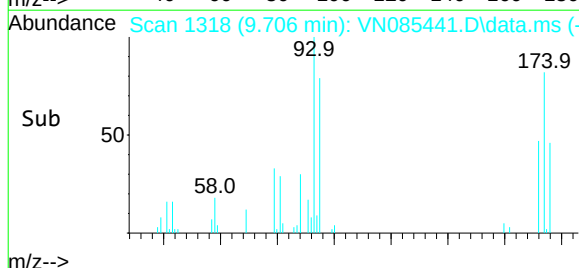
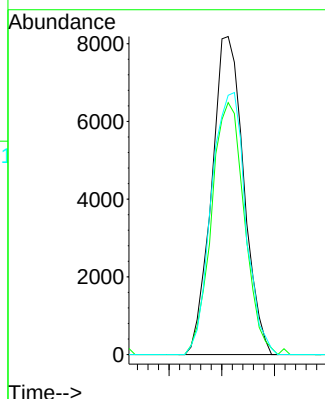
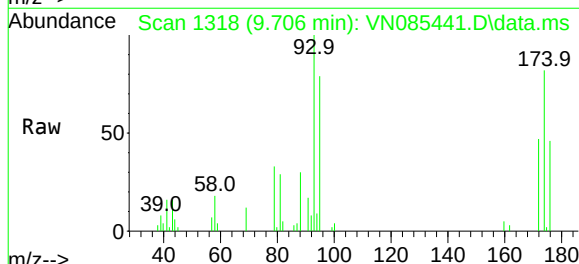
Tgt Ion: 93 Resp: 17260

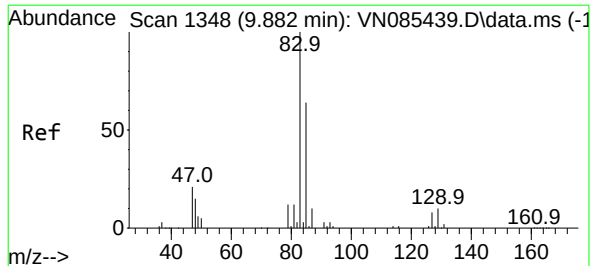
Ion Ratio Lower Upper

93 100

95 81.5 64.7 97.1

174 87.8 69.0 103.4





#47

Bromodichloromethane

Concen: 9.365 ug/l

RT: 9.883 min Scan# 1348

Delta R.T. 0.001 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

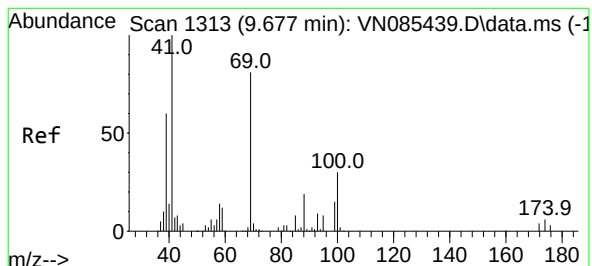
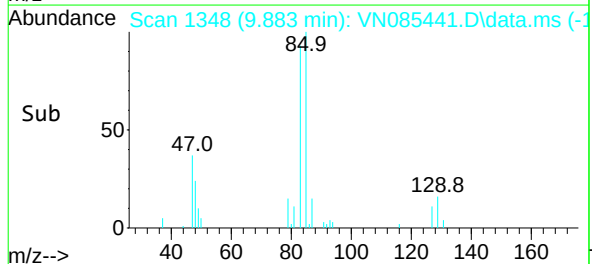
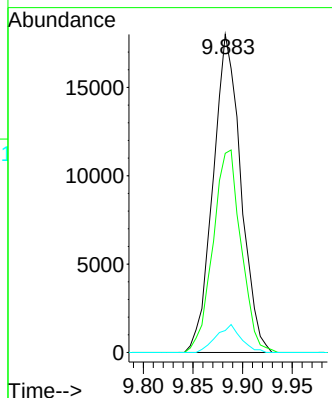
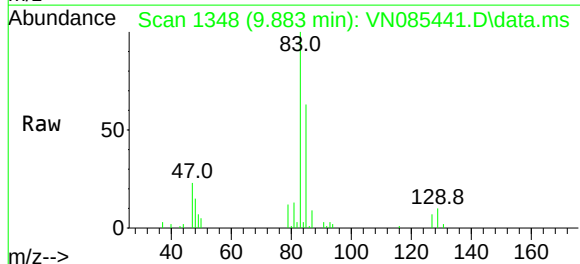
ClientSampleId :

VSTDIC010

Tgt Ion:	83	Resp:	35020
Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.2	76.8
127	6.9	6.5	9.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#48

Methyl methacrylate

Concen: 9.067 ug/l

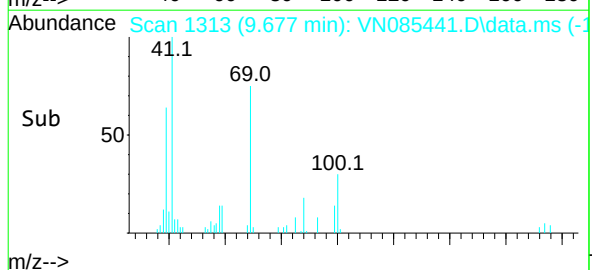
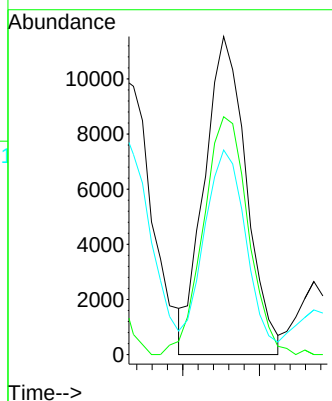
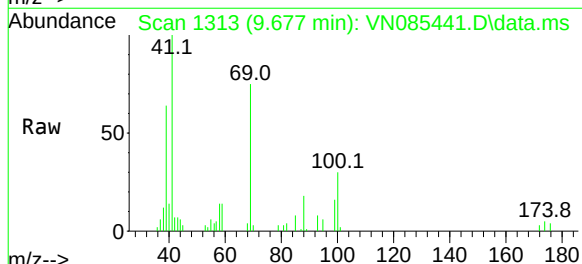
RT: 9.677 min Scan# 1313

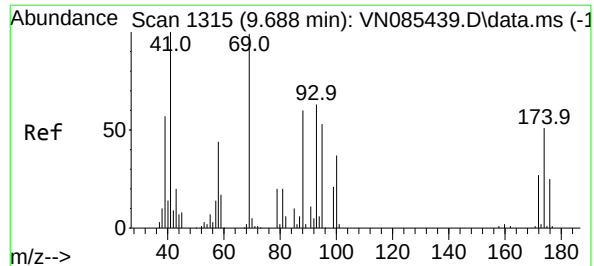
Delta R.T. -0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	41	Resp:	21873
Ion	Ratio	Lower	Upper
41	100		
69	80.0	64.7	97.1
39	65.2	49.0	73.6





#49

1,4-Dioxane

Concen: 190.382 ug/l

RT: 9.694 min Scan# 1315

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 88 Resp: 7734

Ion Ratio Lower Upper

88 100

43 35.2 26.6 39.8

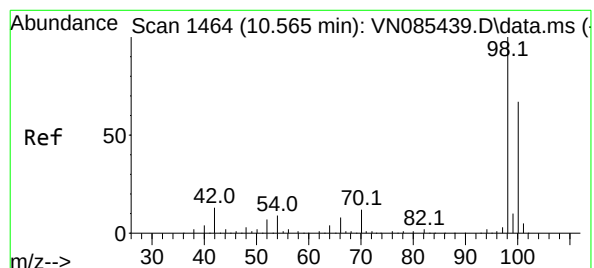
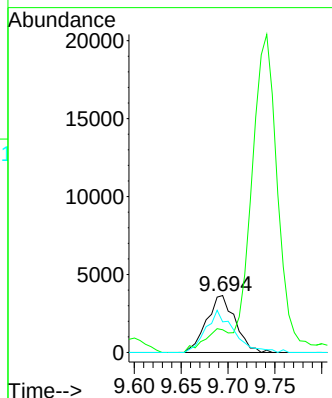
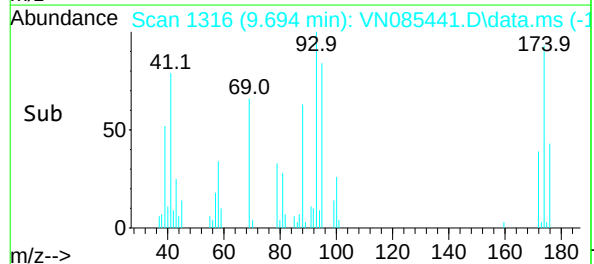
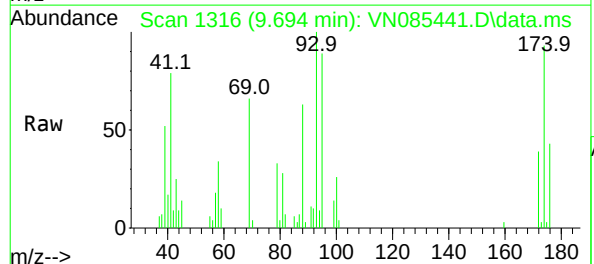
58 73.3 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#50

Toluene-d8

Concen: 8.727 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085441.D

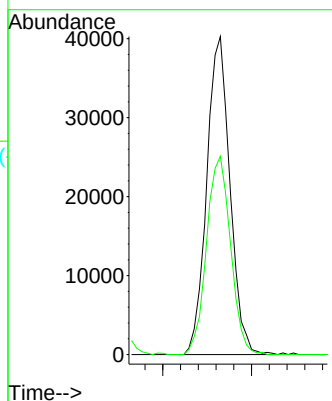
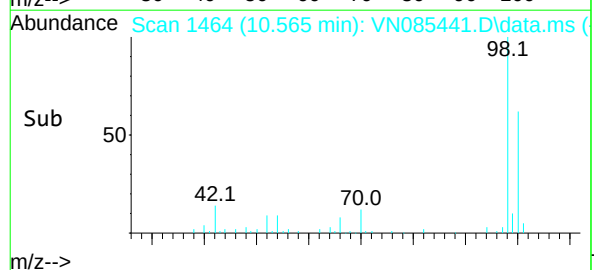
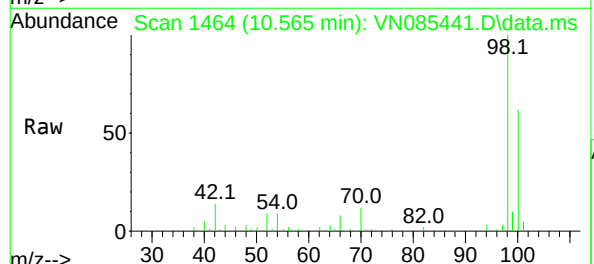
Acq: 14 Jan 2025 16:07

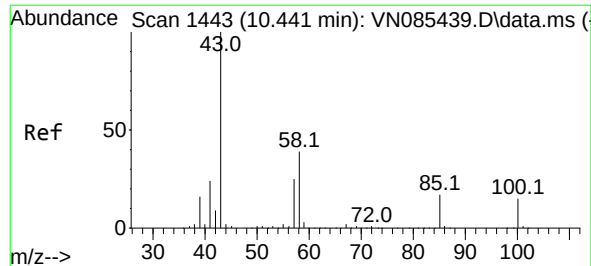
Tgt Ion: 98 Resp: 73223

Ion Ratio Lower Upper

98 100

100 64.5 52.2 78.4





#51

4-Methyl-2-Pentanone

Concen: 47.254 ug/l

RT: 10.441 min Scan# 14

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 146990

Ion Ratio Lower Upper

43 100

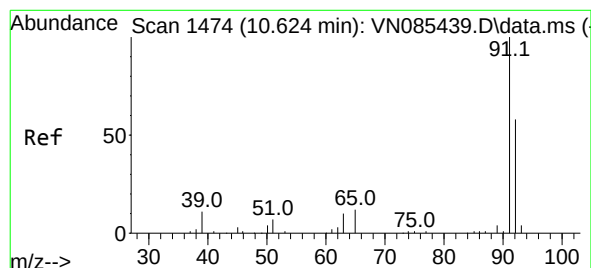
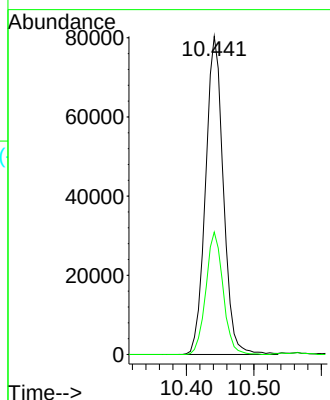
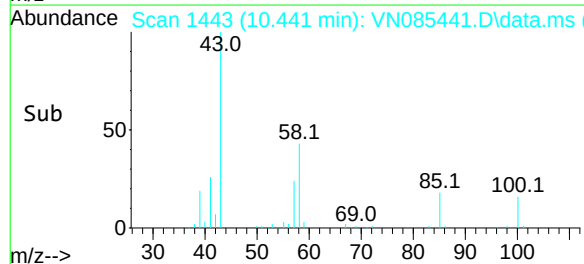
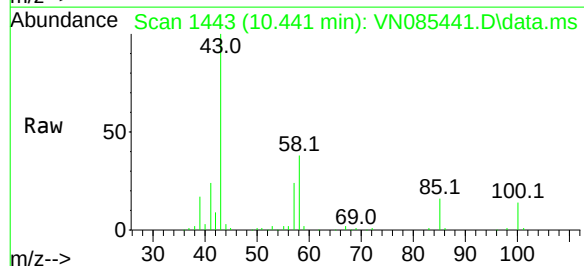
58 37.1 30.5 45.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#52

Toluene

Concen: 9.527 ug/l

RT: 10.630 min Scan# 1475

Delta R.T. 0.006 min

Lab File: VN085441.D

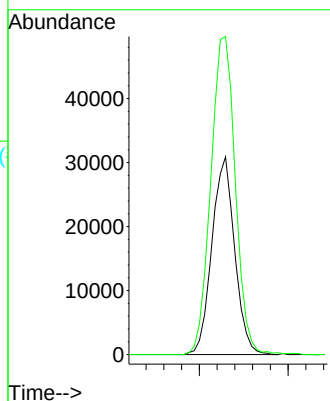
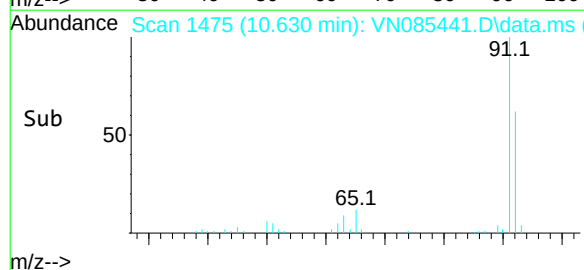
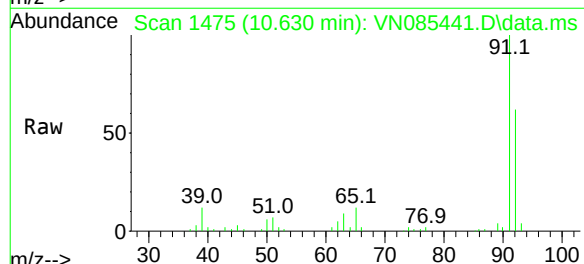
Acq: 14 Jan 2025 16:07

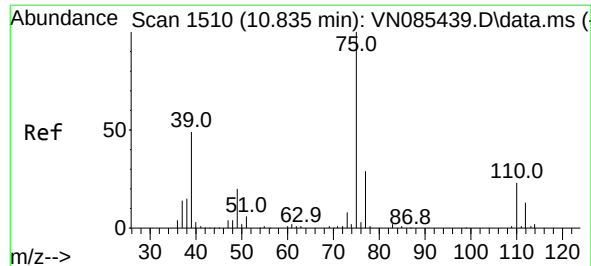
Tgt Ion: 92 Resp: 54976

Ion Ratio Lower Upper

92 100

91 173.7 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 9.276 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 75 Resp: 32780

Ion Ratio Lower Upper

75 100

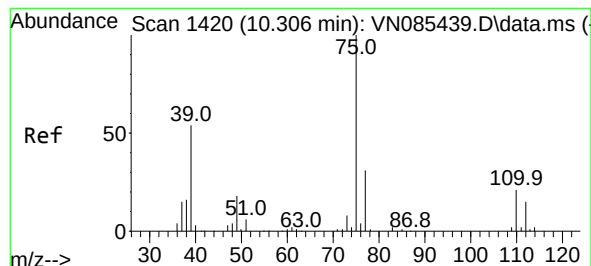
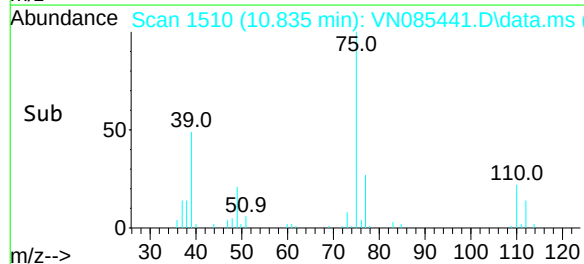
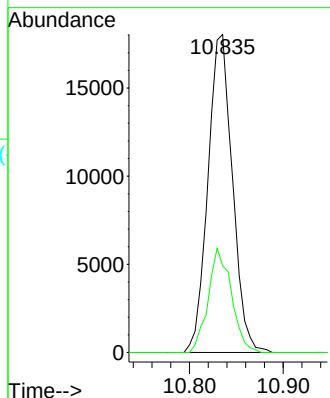
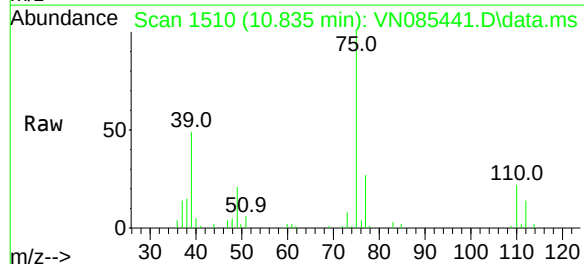
77 27.2 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#54

cis-1,3-Dichloropropene

Concen: 9.512 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

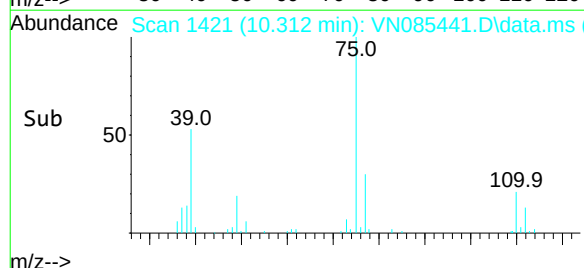
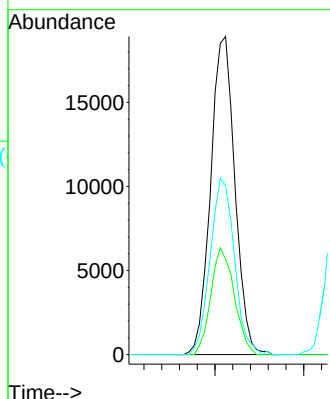
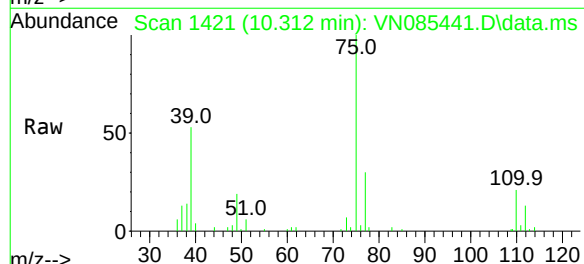
Tgt Ion: 75 Resp: 35904

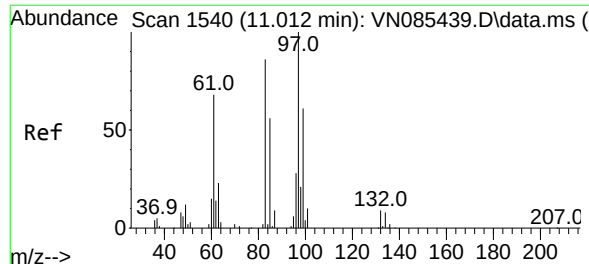
Ion Ratio Lower Upper

75 100

77 30.0 25.0 37.4

39 53.1 43.1 64.7





#55

1,1,2-Trichloroethane

Concen: 9.222 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 97 Resp: 21060

Ion Ratio Lower Upper

97 100

83 88.3 69.0 103.6

85 57.3 44.6 66.8

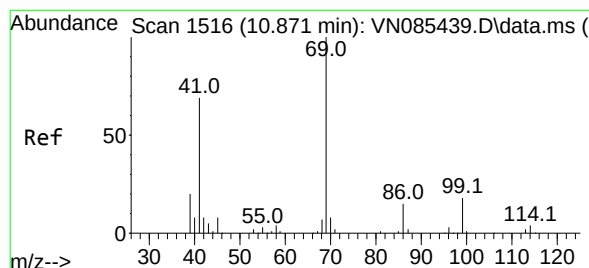
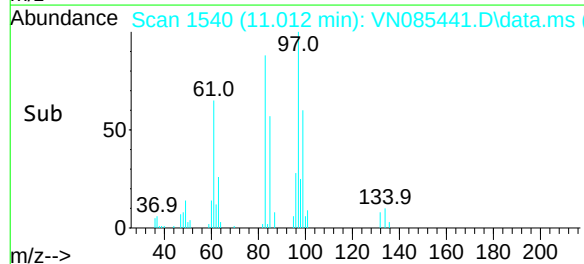
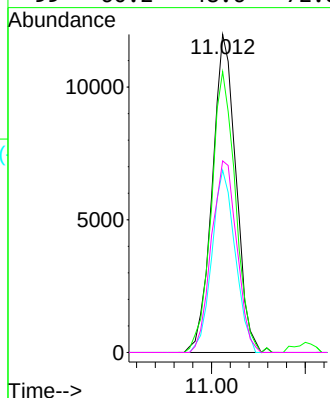
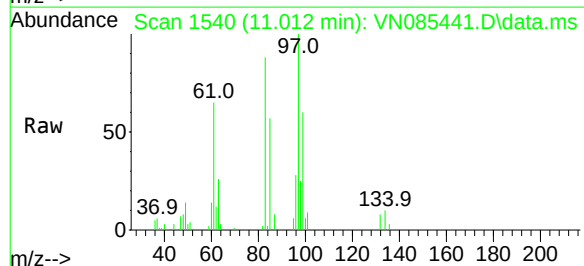
99 60.2 48.6 72.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#56

Ethyl methacrylate

Concen: 9.042 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

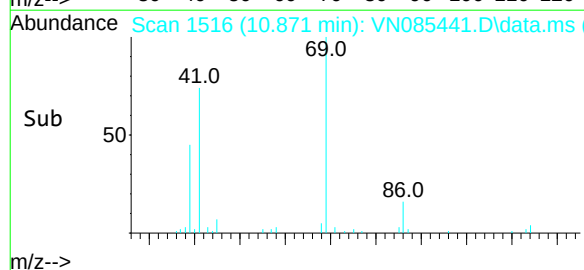
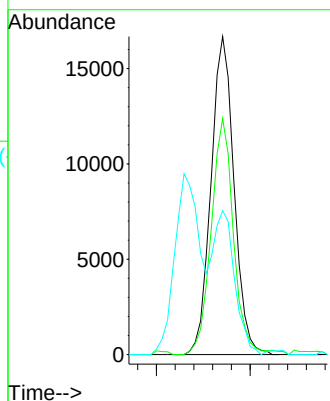
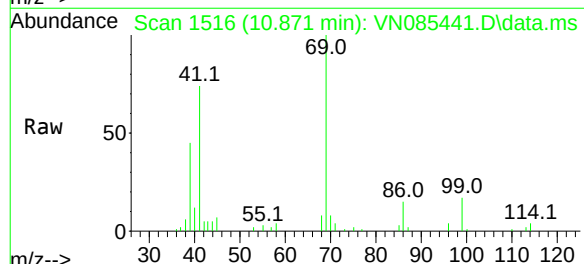
Tgt Ion: 69 Resp: 28454

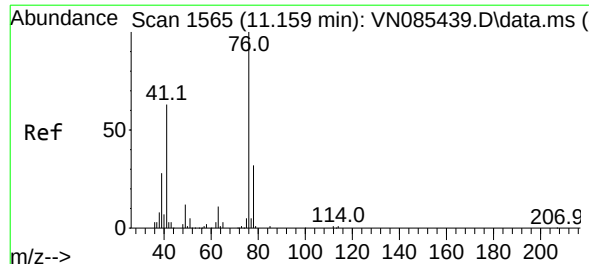
Ion Ratio Lower Upper

69 100

41 72.1 54.6 82.0

39 43.4 32.4 48.6





#57

1,3-Dichloropropane

Concen: 9.512 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 76 Resp: 37768

Ion Ratio Lower Upper

76 100

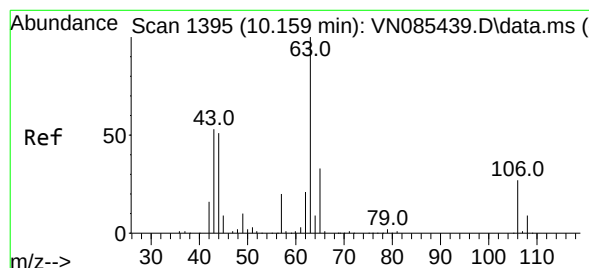
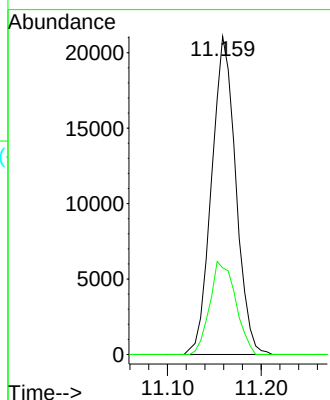
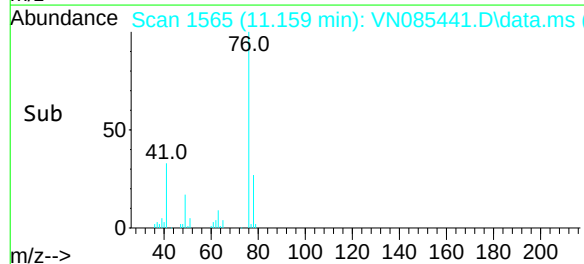
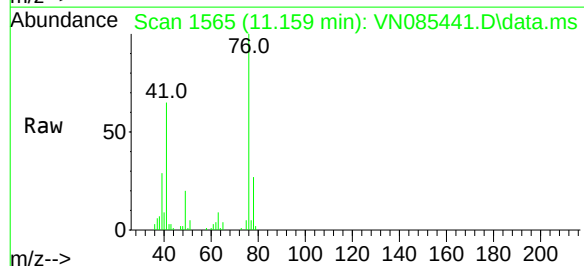
78 31.1 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#58

2-Chloroethyl Vinyl ether

Concen: 43.550 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN085441.D

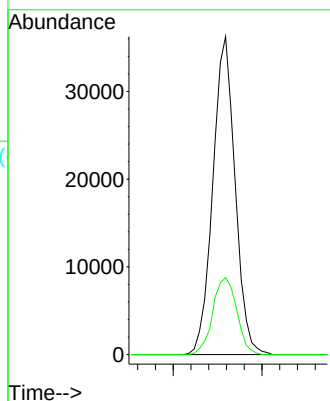
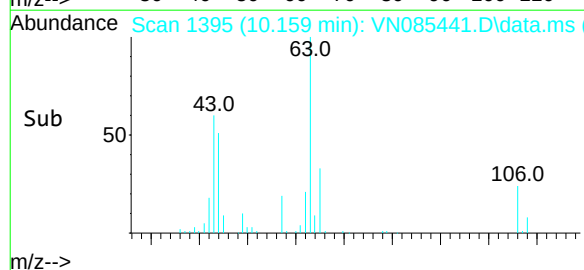
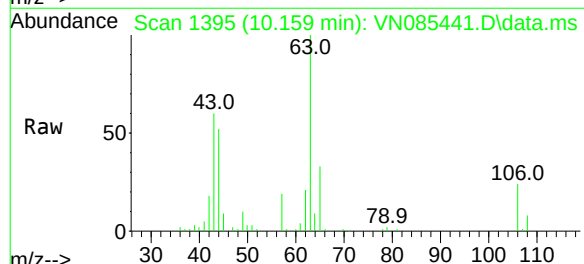
Acq: 14 Jan 2025 16:07

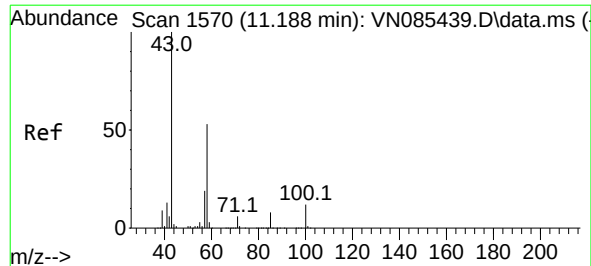
Tgt Ion: 63 Resp: 63110

Ion Ratio Lower Upper

63 100

106 26.1 21.6 32.4





#59

2-Hexanone

Concen: 46.291 ug/l

RT: 11.194 min Scan# 15

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 43 Resp: 101318

Ion Ratio Lower Upper

43 100

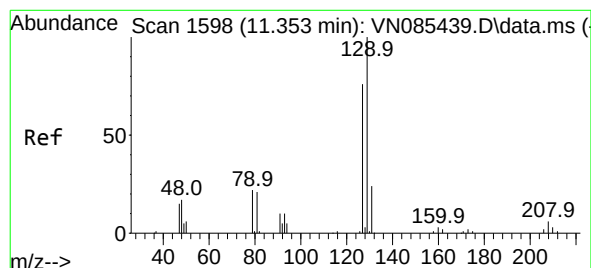
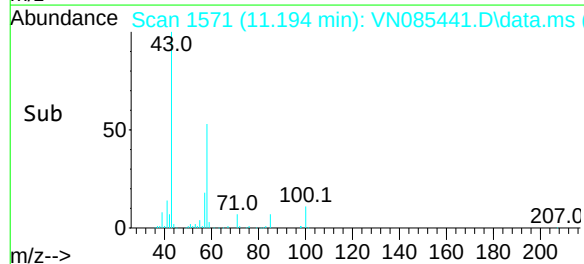
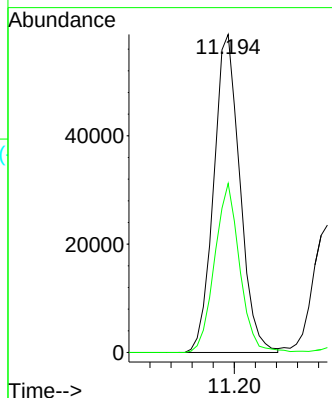
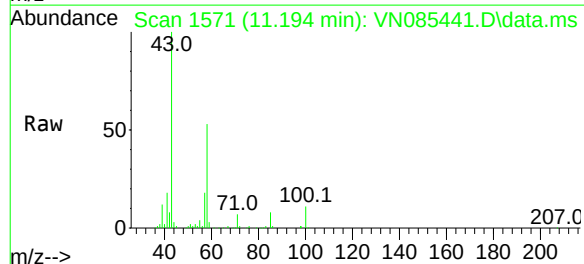
58 50.9 26.2 78.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#60

Dibromochloromethane

Concen: 9.079 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. 0.000 min

Lab File: VN085441.D

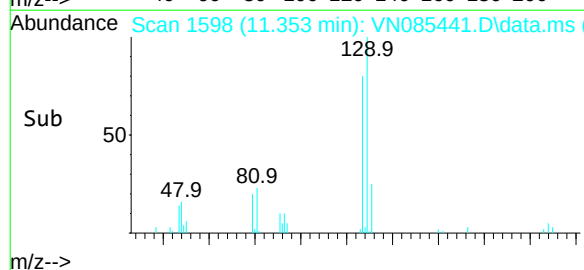
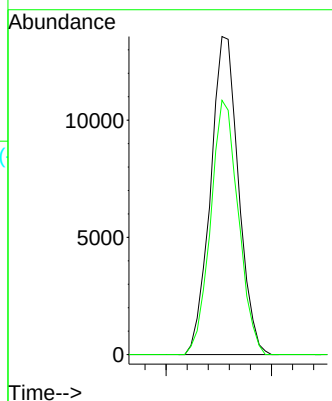
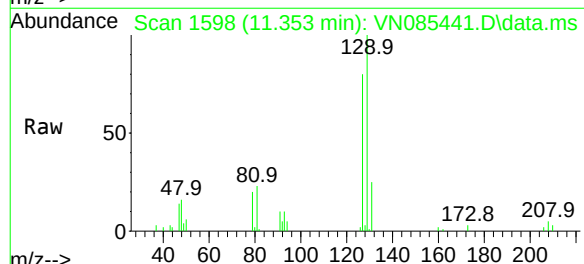
Acq: 14 Jan 2025 16:07

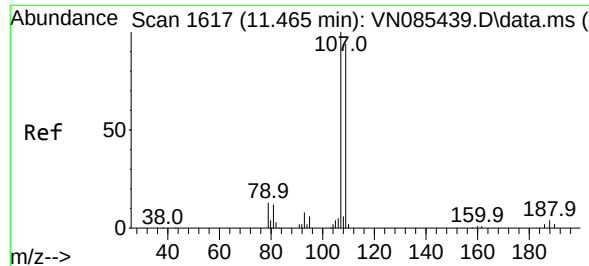
Tgt Ion:129 Resp: 25029

Ion Ratio Lower Upper

129 100

127 79.1 38.6 115.8





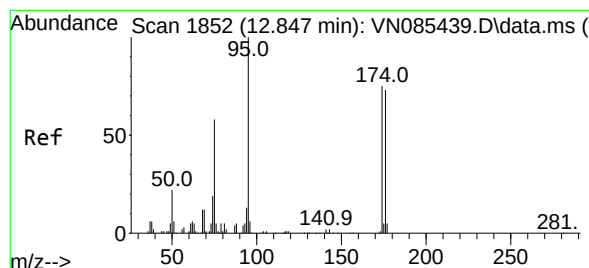
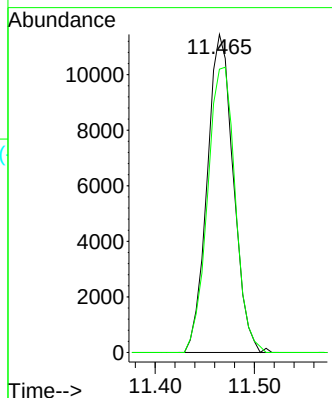
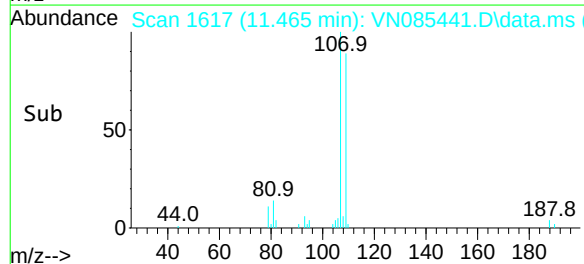
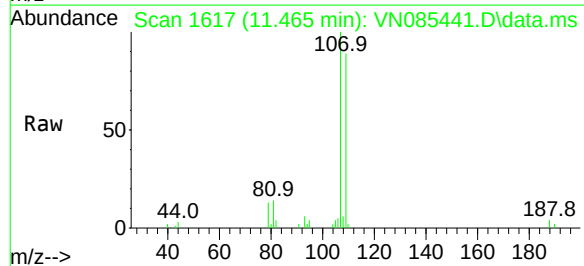
#61
1,2-Dibromoethane
Concen: 9.263 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 107 Resp: 21055
Ion Ratio Lower Upper
107 100
109 94.6 75.9 113.9

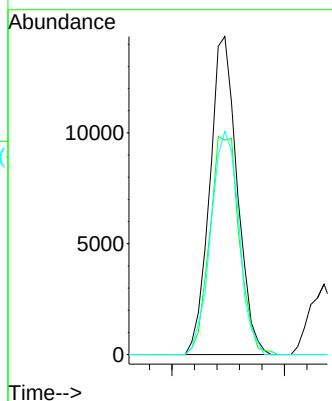
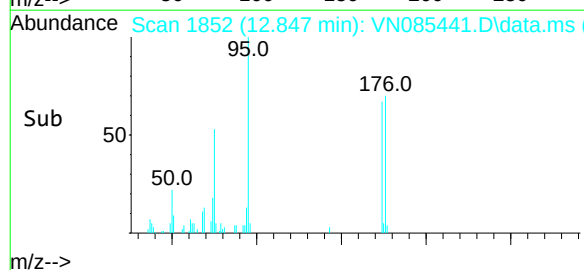
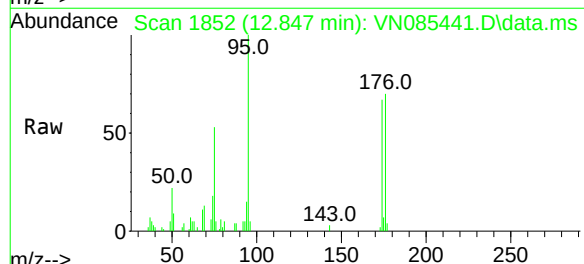
Manual Integrations
APPROVED

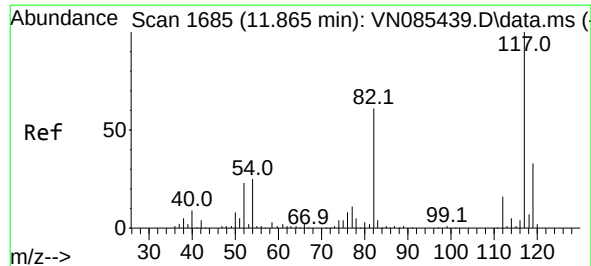
Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



#62
4-Bromofluorobenzene
Concen: 8.476 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 95 Resp: 24327
Ion Ratio Lower Upper
95 100
174 73.9 0.0 145.0
176 72.1 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:117 Resp: 294508

Ion Ratio Lower Upper

117 100

82 58.7 48.6 72.8

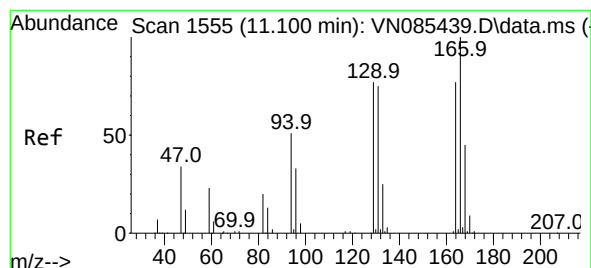
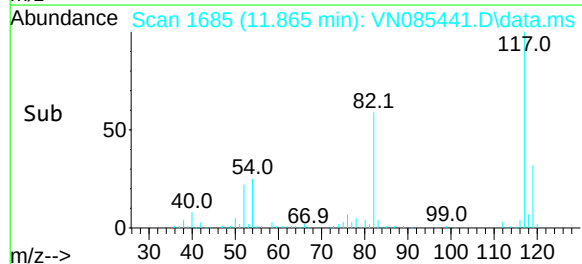
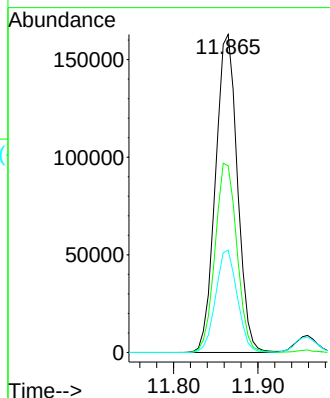
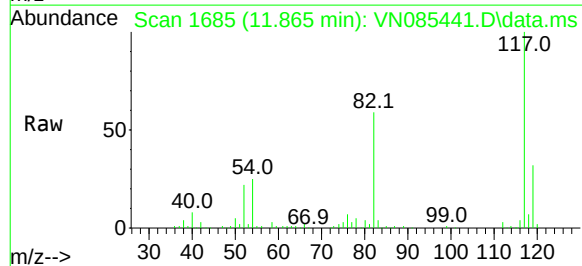
119 32.2 26.6 39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#64

Tetrachloroethene

Concen: 9.928 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:164 Resp: 19934

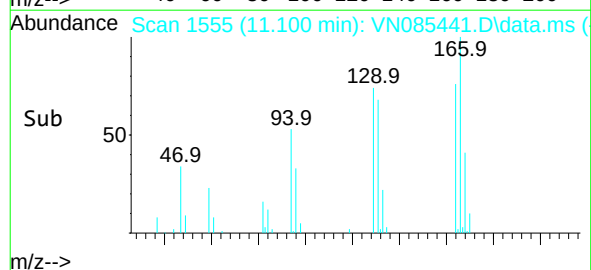
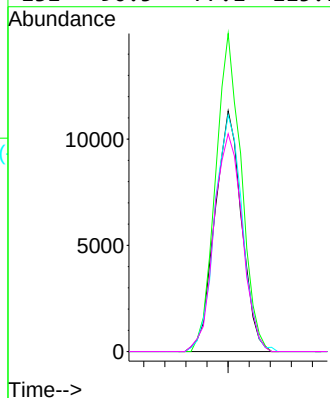
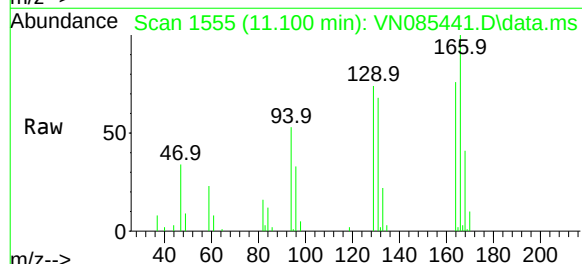
Ion Ratio Lower Upper

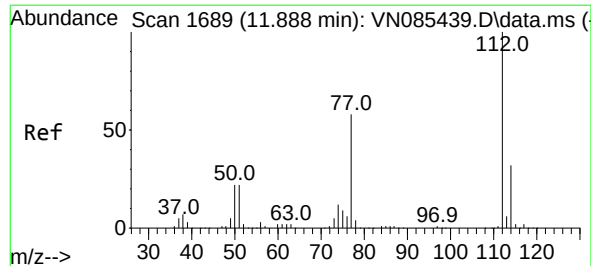
164 100

166 132.2 103.4 155.2

129 98.3 79.2 118.8

131 90.5 77.1 115.7





#65

Chlorobenzene

Concen: 9.560 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion:112 Resp: 61680

Ion Ratio Lower Upper

112 100

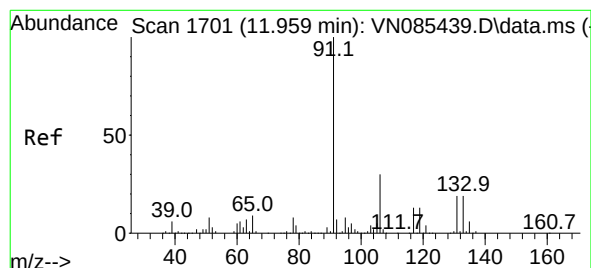
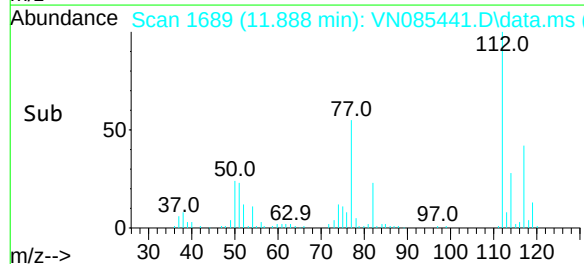
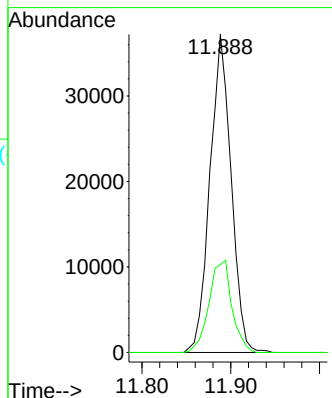
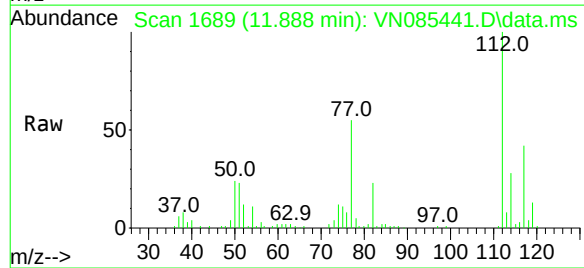
114 27.6 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 9.229 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

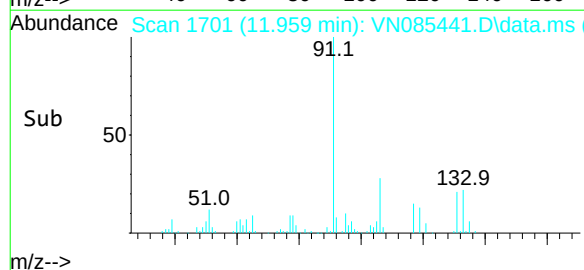
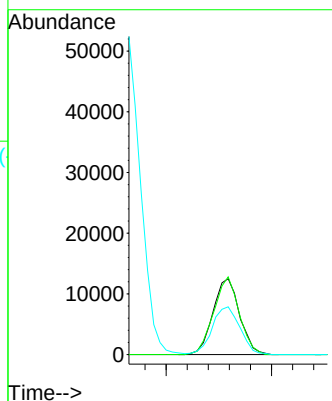
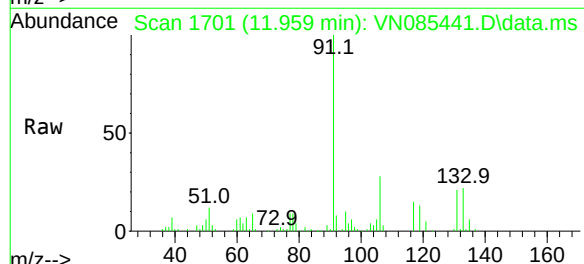
Tgt Ion:131 Resp: 21853

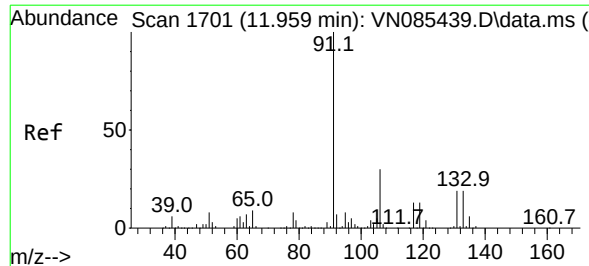
Ion Ratio Lower Upper

131 100

133 98.5 47.4 142.3

119 66.0 33.1 99.5





#67

Ethyl Benzene

Concen: 9.445 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 91 Resp: 99248

Ion Ratio Lower Upper

91 100

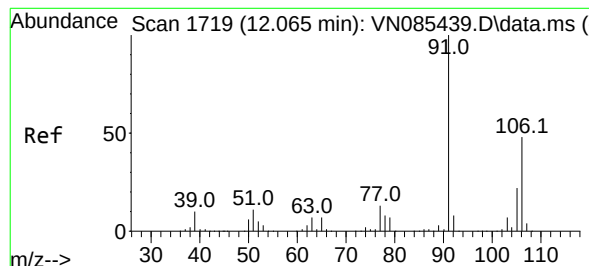
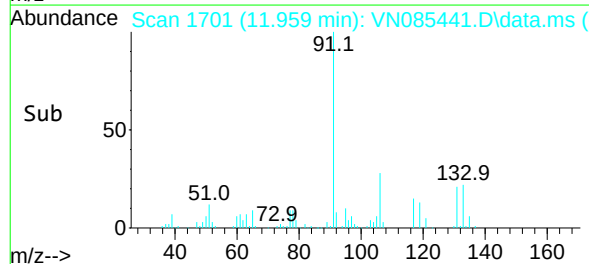
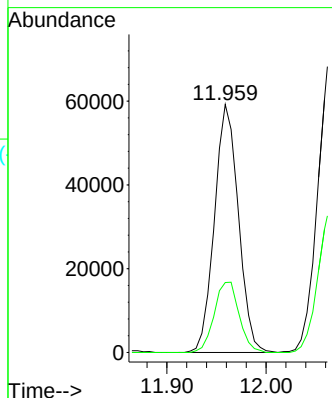
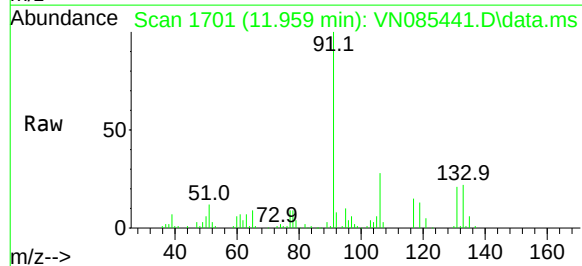
106 28.2 23.8 35.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#68

m/p-Xylenes

Concen: 18.650 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. 0.000 min

Lab File: VN085441.D

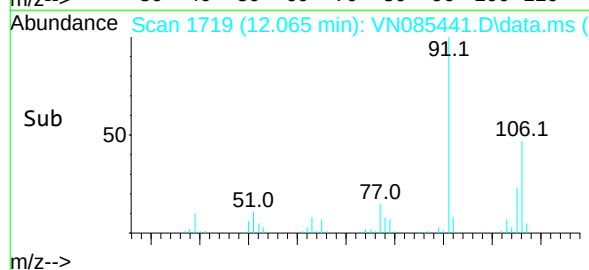
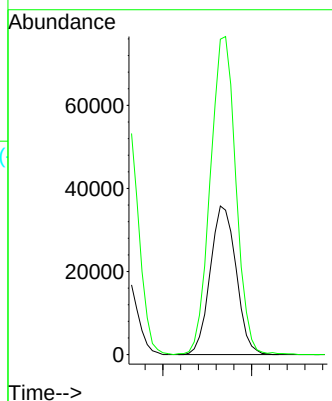
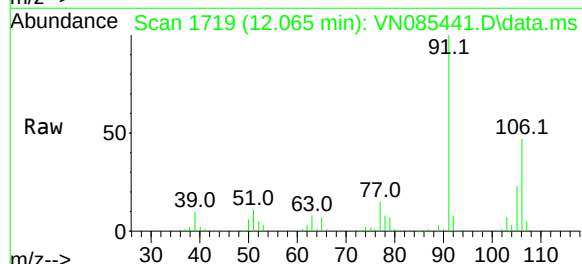
Acq: 14 Jan 2025 16:07

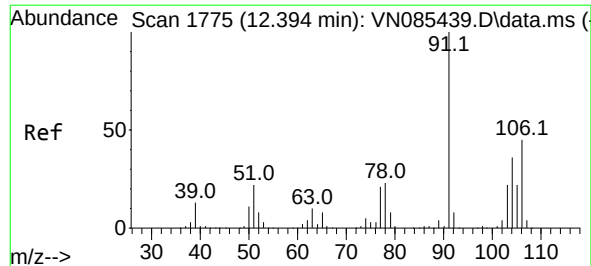
Tgt Ion:106 Resp: 72431

Ion Ratio Lower Upper

106 100

91 211.7 167.7 251.5





#69

o-Xylene

Concen: 9.264 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:106 Resp: 34382

Ion Ratio Lower Upper

106 100

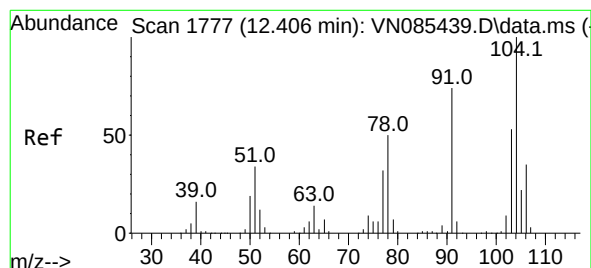
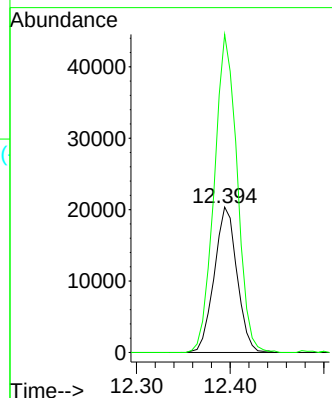
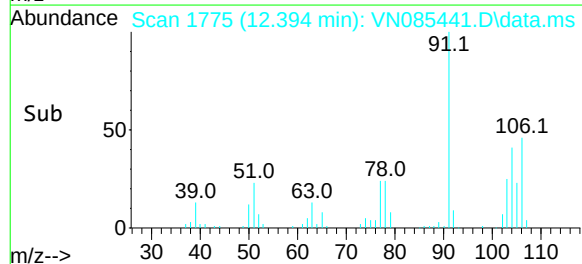
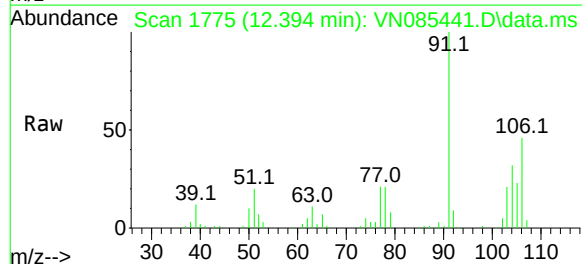
91 219.5 110.4 331.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#70

Styrene

Concen: 9.163 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

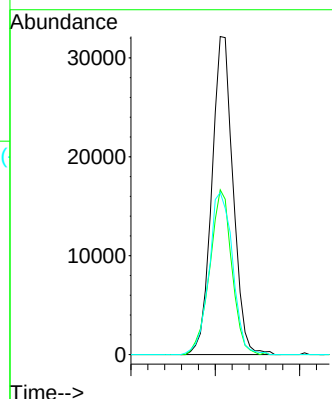
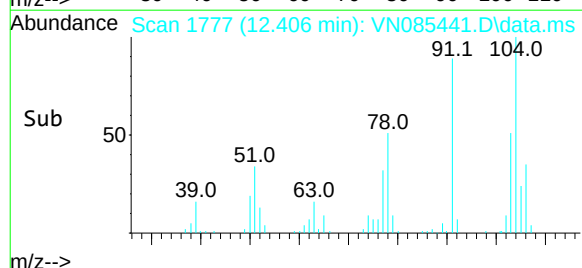
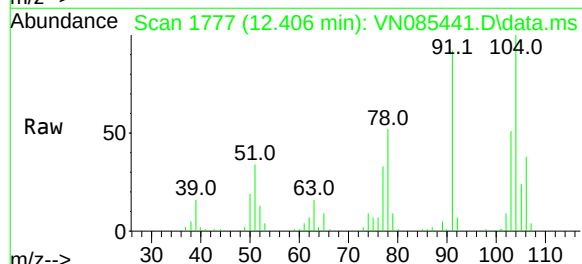
Tgt Ion:104 Resp: 56285

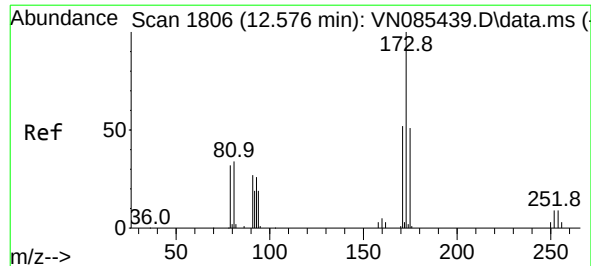
Ion Ratio Lower Upper

104 100

78 53.8 42.5 63.7

103 56.8 43.8 65.8





#71

Bromoform

Concen: 9.485 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

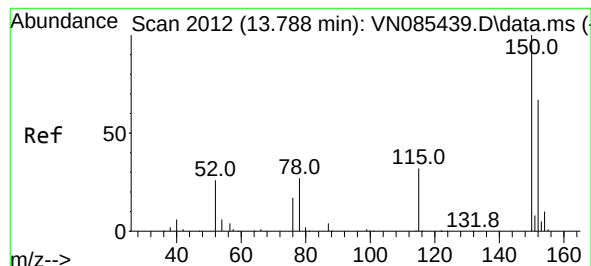
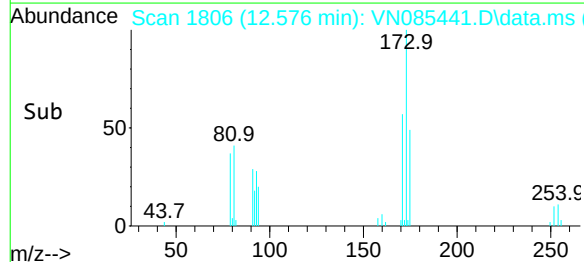
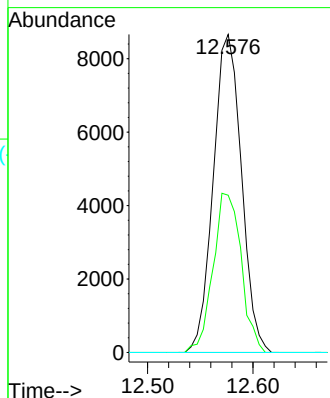
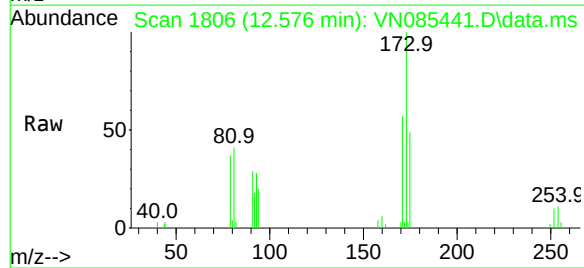
ClientSampleId :

VSTDICC010

Tgt Ion:	173	Resp:	16071
Ion Ratio	Lower	Upper	
173	100		
175	50.0	24.4	73.2
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

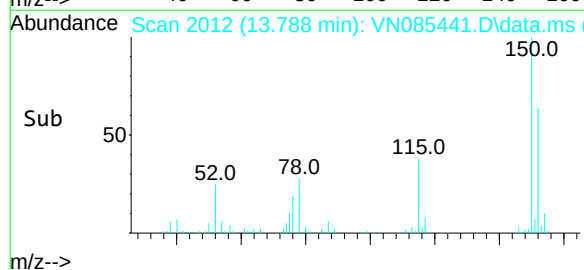
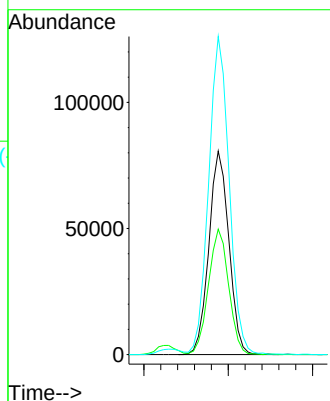
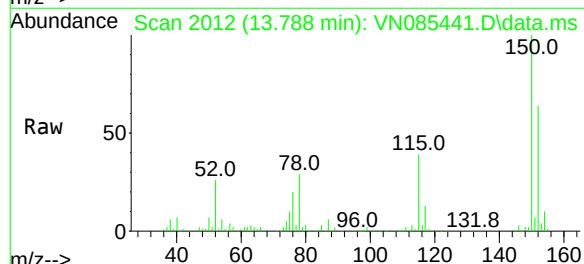
RT: 13.788 min Scan# 2012

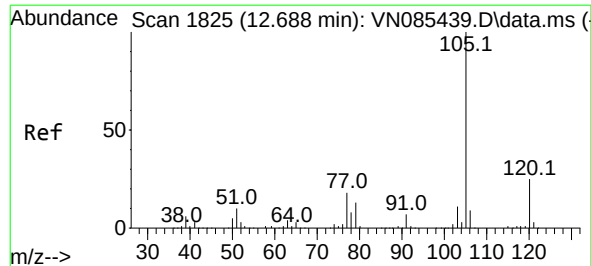
Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	152	Resp:	132934
Ion Ratio	Lower	Upper	
152	100		
115	62.3	31.1	93.3
150	159.8	0.0	343.6





#73

Isopropylbenzene

Concen: 9.697 ug/l

RT: 12.694 min Scan# 18

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 105 Resp: 87003

Ion Ratio Lower Upper

105 100

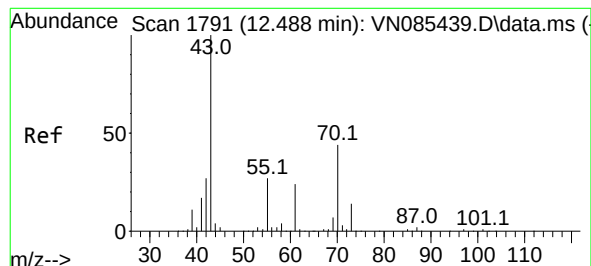
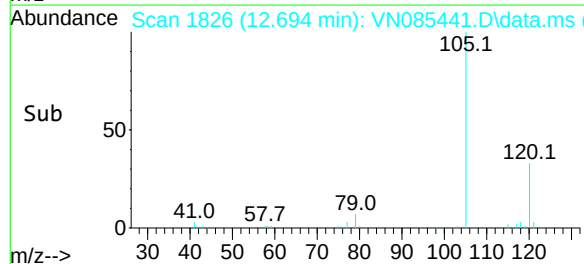
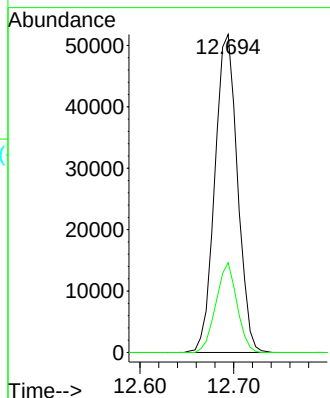
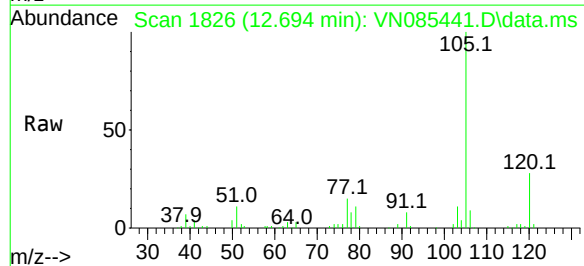
120 26.1 12.8 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#74

N-ethyl acetate

Concen: 9.260 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 37343

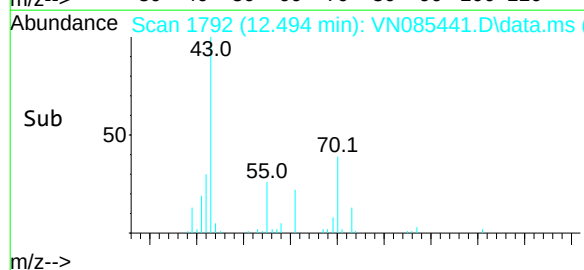
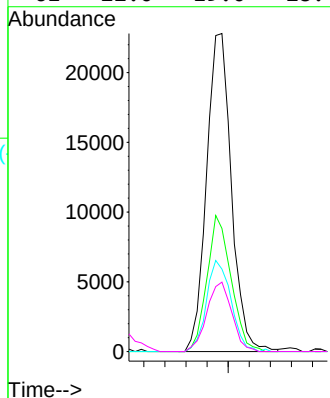
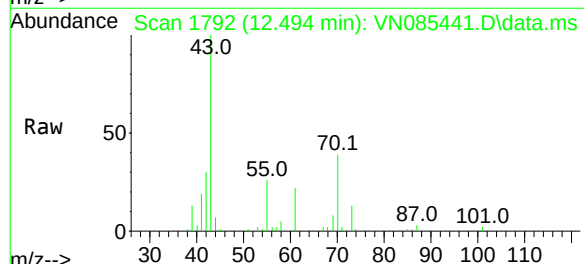
Ion Ratio Lower Upper

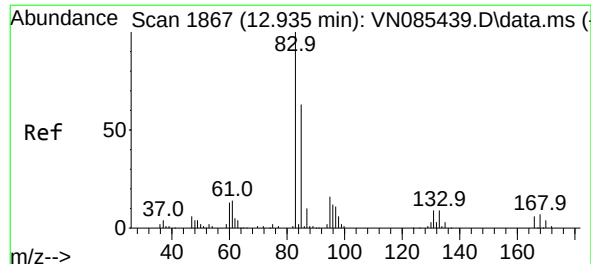
43 100

70 41.4 34.0 51.0

55 28.5 21.4 32.2

61 22.0 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 9.709 ug/l

RT: 12.935 min Scan# 18

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

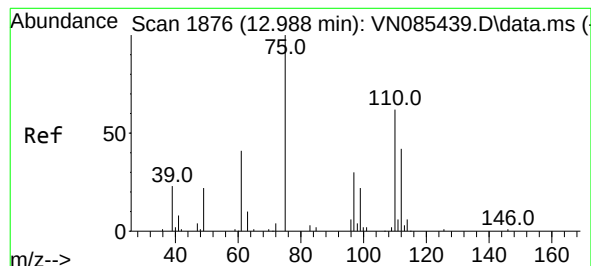
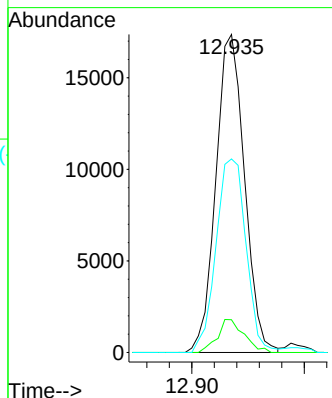
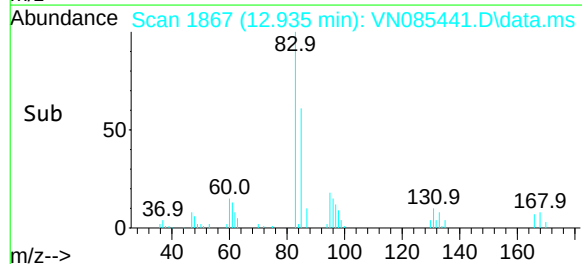
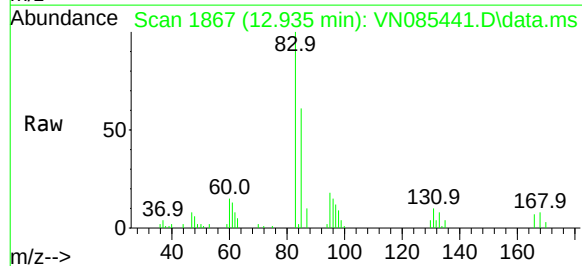
ClientSampleId :

VSTDIC010

Tgt Ion:	83	Resp:	30770
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	63.6	32.2	96.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#76

1,2,3-Trichloropropane

Concen: 9.432 ug/l m

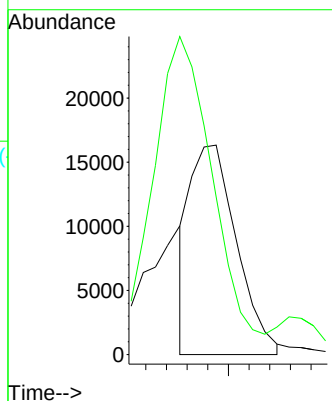
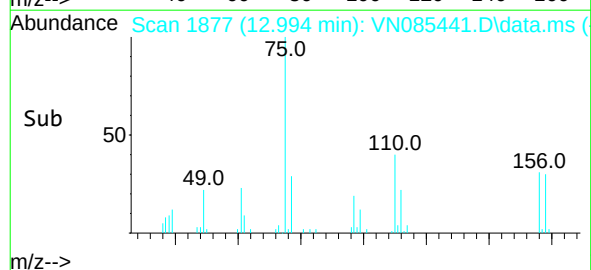
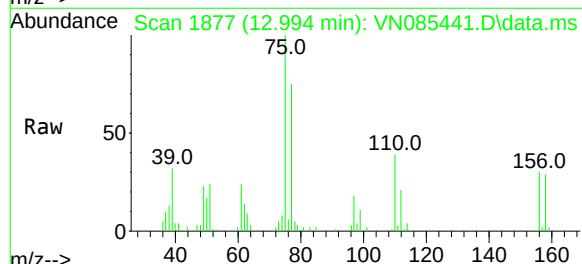
RT: 12.994 min Scan# 1877

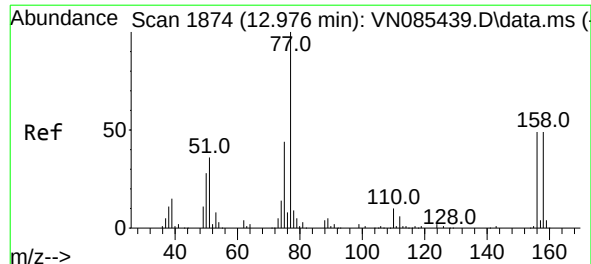
Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	75	Resp:	25443
Ion	Ratio	Lower	Upper
75	100		
77	198.5	109.7	329.2





#77

Bromobenzene

Concen: 9.720 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

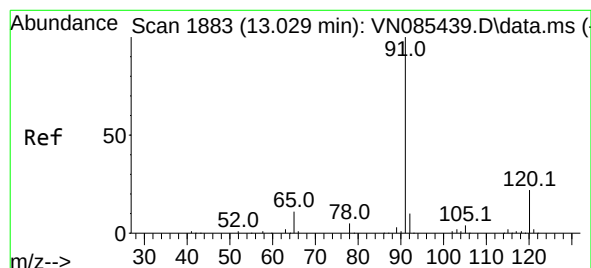
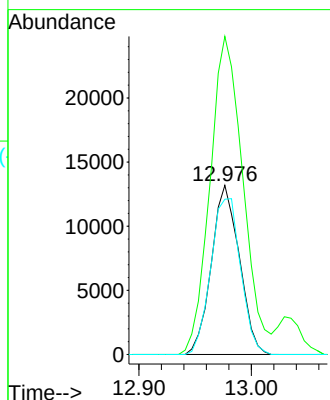
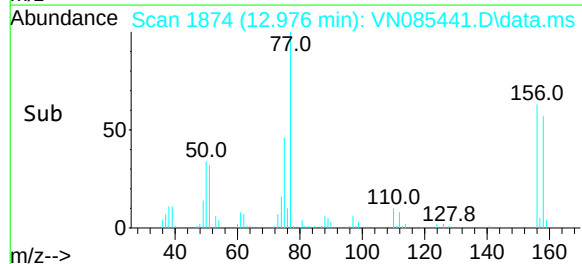
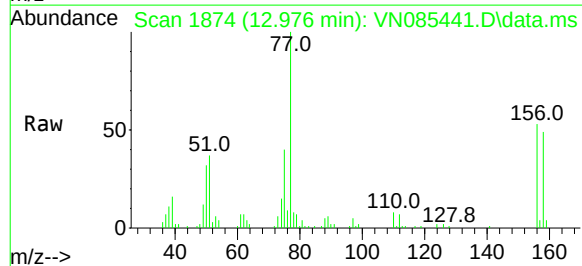
VSTDIC010

Tgt Ion:	156	Resp:	22784
Ion	Ratio	Lower	Upper
156	100		
77	221.6	114.1	342.4
158	98.7	48.9	146.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#78

n-propylbenzene

Concen: 9.628 ug/l

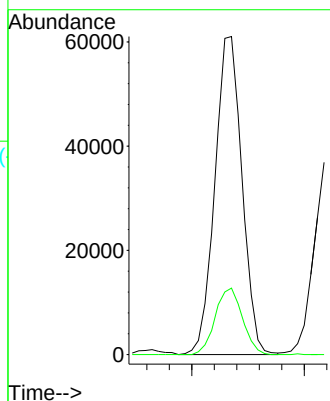
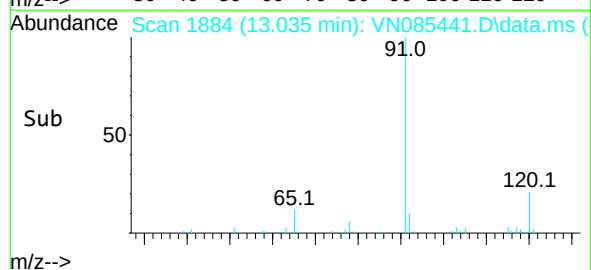
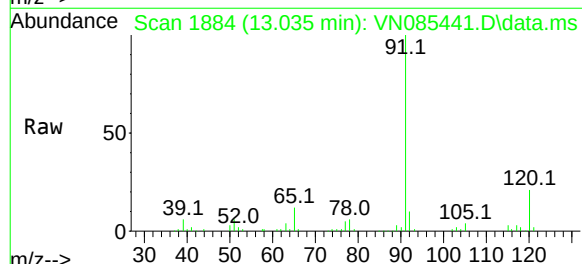
RT: 13.035 min Scan# 1884

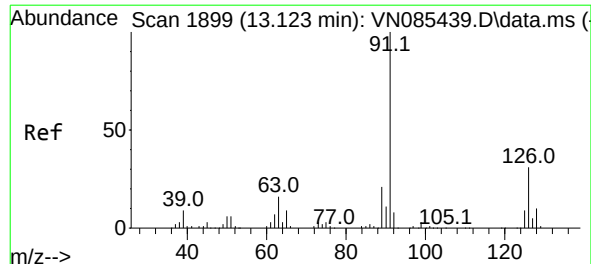
Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	91	Resp:	102262
Ion	Ratio	Lower	Upper
91	100		
120	20.9	10.9	32.6





#79

2-Chlorotoluene

Concen: 9.943 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 91 Resp: 68346

Ion Ratio Lower Upper

91 100

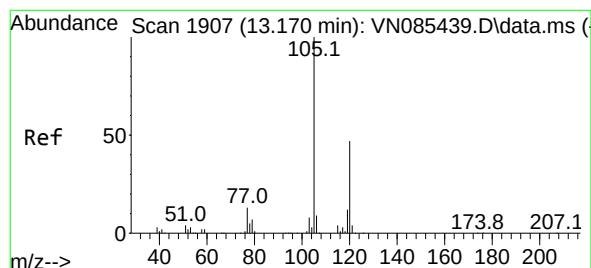
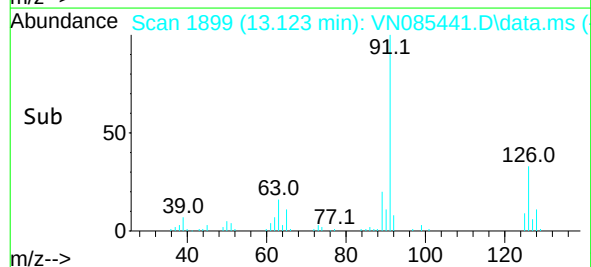
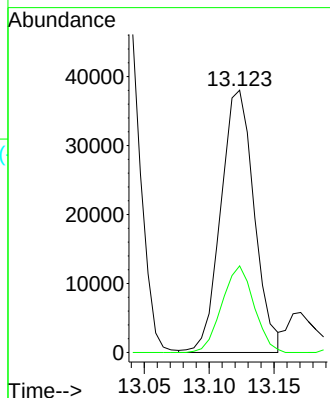
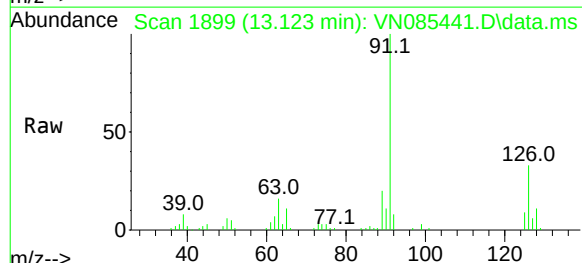
126 31.5 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#80

1,3,5-Trimethylbenzene

Concen: 9.669 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085441.D

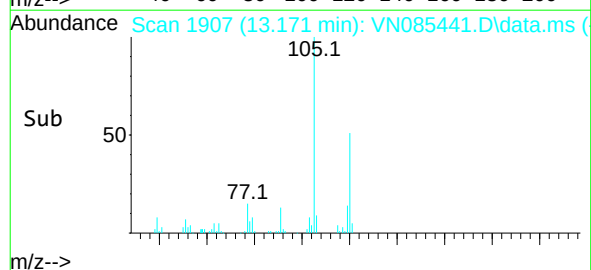
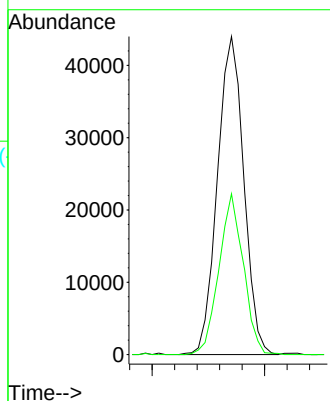
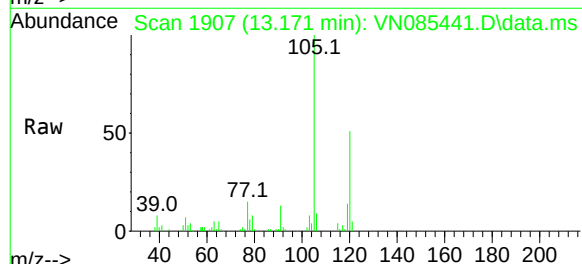
Acq: 14 Jan 2025 16:07

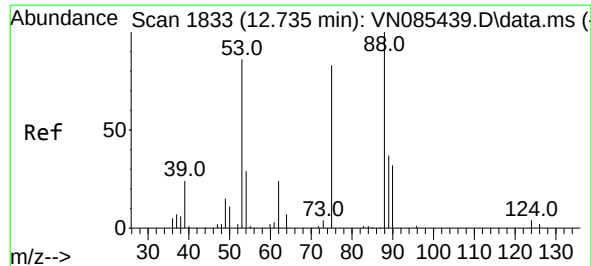
Tgt Ion:105 Resp: 71656

Ion Ratio Lower Upper

105 100

120 46.8 23.9 71.7





#81

trans-1,4-Dichloro-2-butene

Concen: 9.248 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

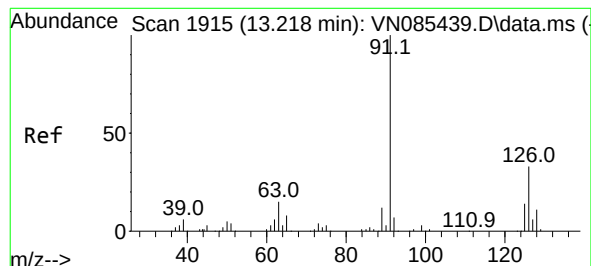
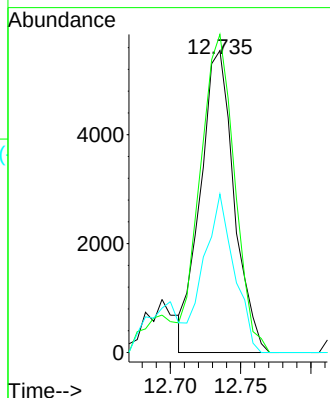
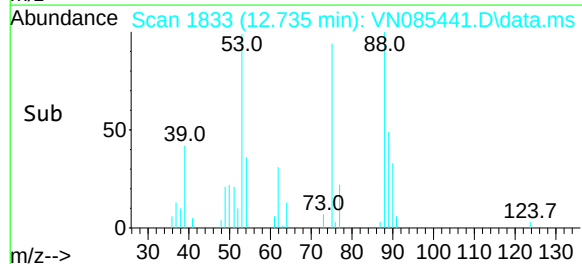
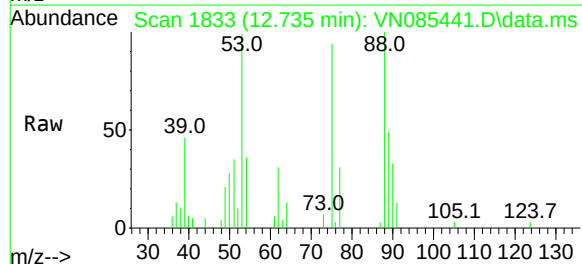
ClientSampleId :

VSTDIC010

Tgt Ion:	75	Resp:	9236
Ion	Ratio	Lower	Upper
75	100		
53	119.6	95.6	143.4
89	46.6	37.0	55.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#82

4-Chlorotoluene

Concen: 9.756 ug/l

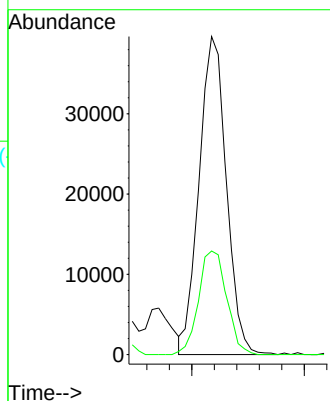
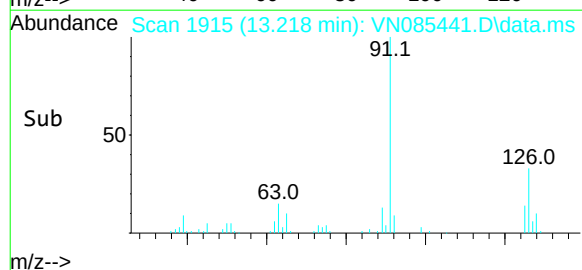
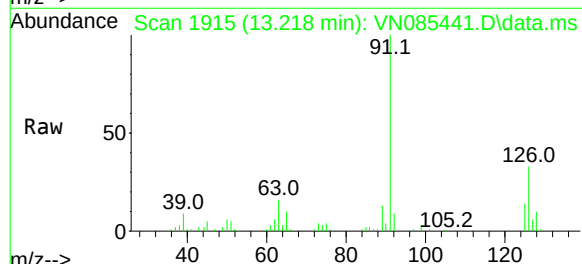
RT: 13.218 min Scan# 1915

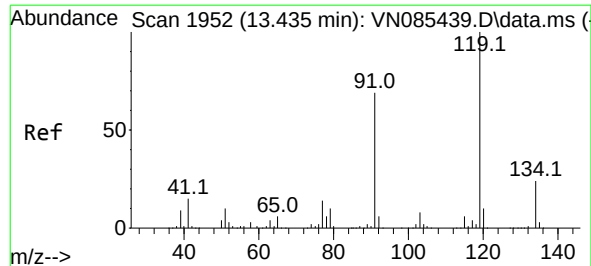
Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	91	Resp:	66773
Ion	Ratio	Lower	Upper
91	100		
126	33.6	15.9	47.7





#83

tert-Butylbenzene

Concen: 9.553 ug/l

RT: 13.435 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN085441.D

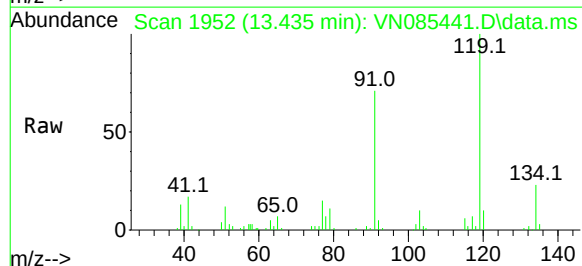
Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

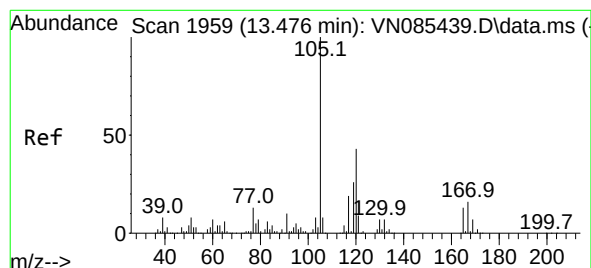
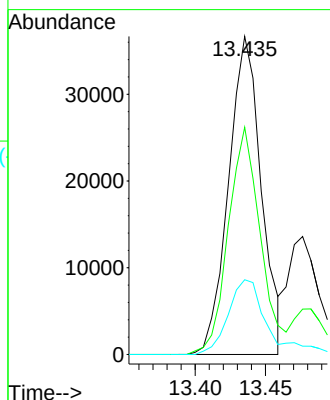
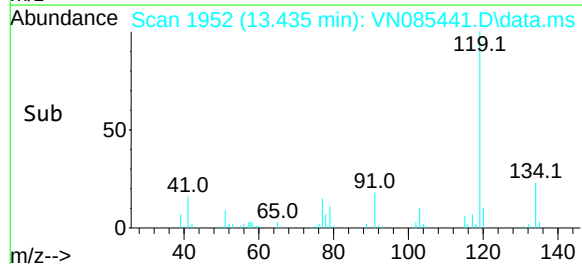
VSTDICC010



Tgt Ion:	119	Resp:	59455
Ion	Ratio	Lower	Upper
119	100		
91	70.0	35.1	105.3
134	27.8	12.0	36.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#84

1,2,4-Trimethylbenzene

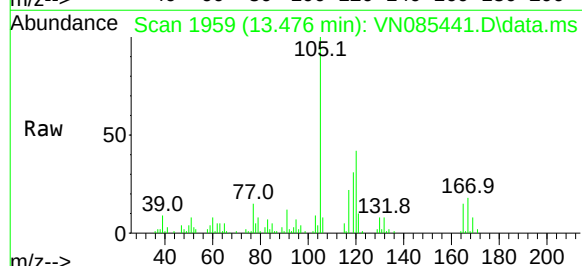
Concen: 9.754 ug/l

RT: 13.476 min Scan# 1959

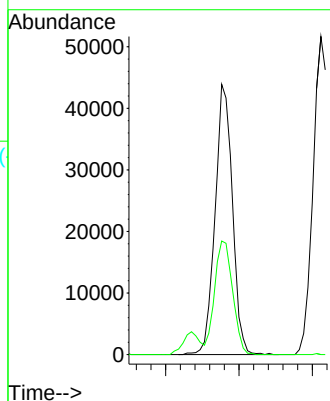
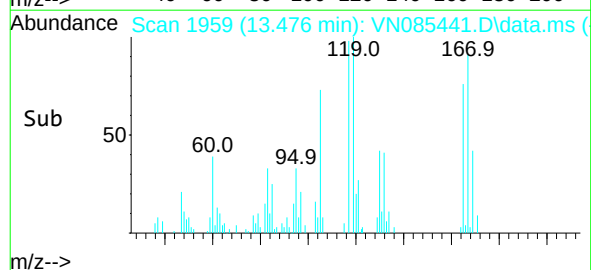
Delta R.T. 0.000 min

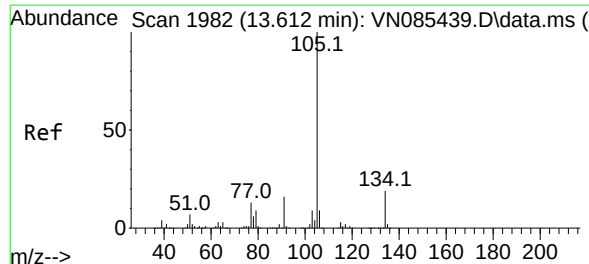
Lab File: VN085441.D

Acq: 14 Jan 2025 16:07



Tgt Ion:	105	Resp:	72046
Ion	Ratio	Lower	Upper
105	100		
120	43.8	21.6	65.0





#85

sec-Butylbenzene

Concen: 9.699 ug/l

RT: 13.612 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:105 Resp: 83662

Ion Ratio Lower Upper

105 100

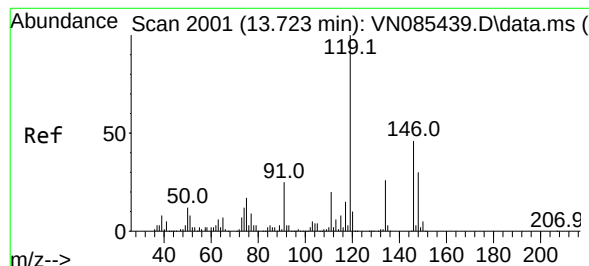
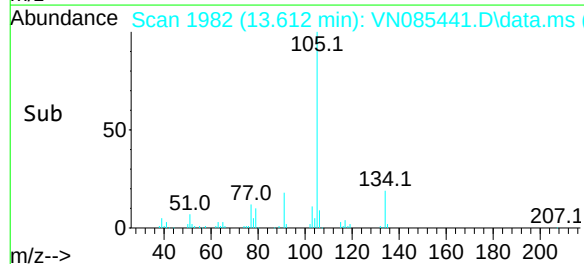
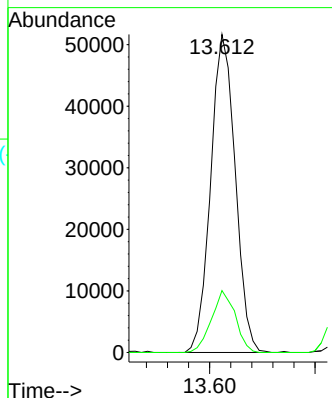
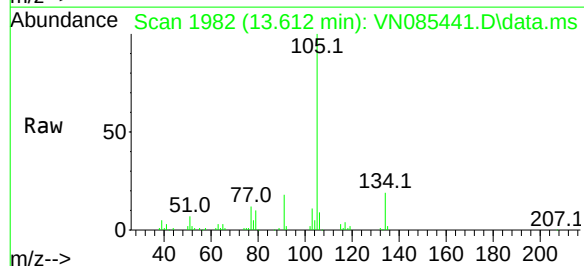
134 18.9 9.7 28.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#86

p-Isopropyltoluene

Concen: 9.674 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

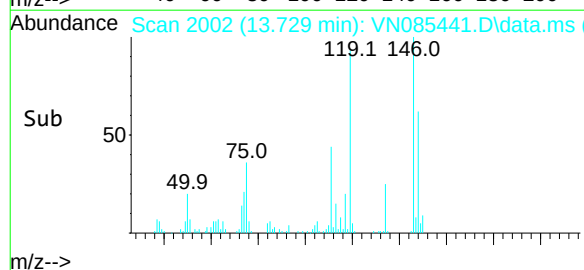
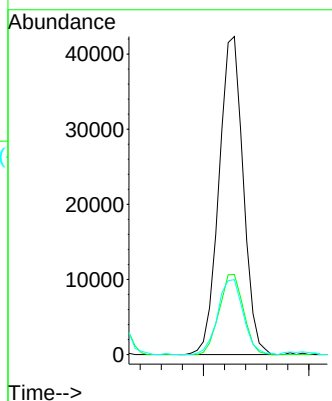
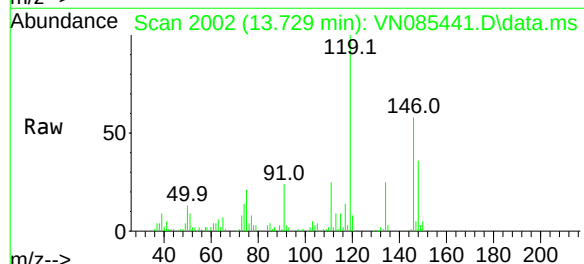
Tgt Ion:119 Resp: 67556

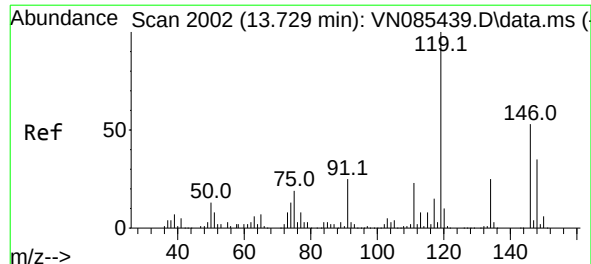
Ion Ratio Lower Upper

119 100

134 25.2 12.7 38.0

91 25.0 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 9.693 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

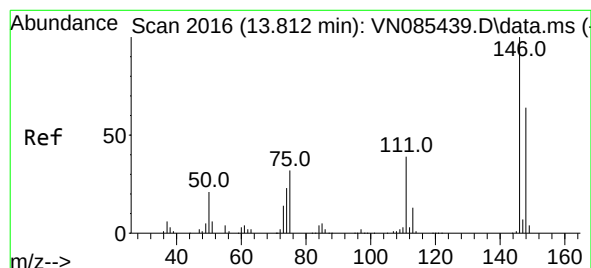
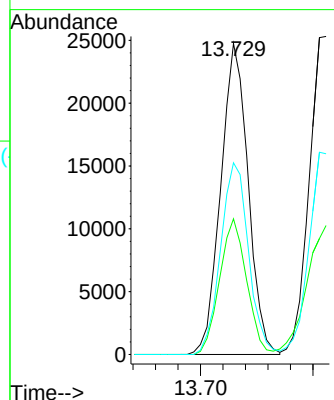
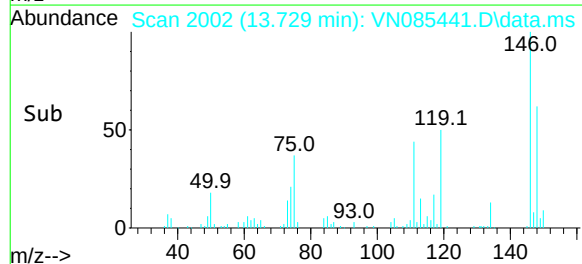
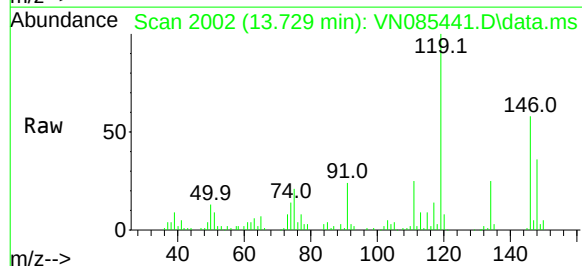
ClientSampleId :

VSTDIC010

Tgt Ion:	146	Resp:	41843
Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.4	64.3
148	63.0	32.3	96.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#88

1,4-Dichlorobenzene

Concen: 9.549 ug/l

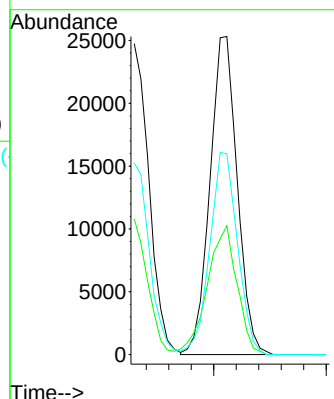
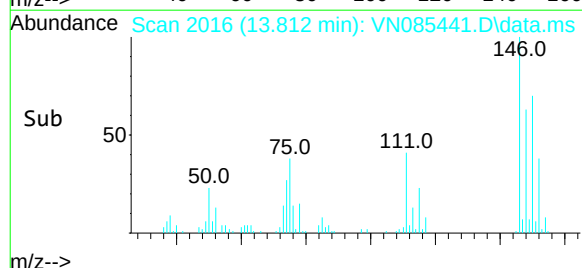
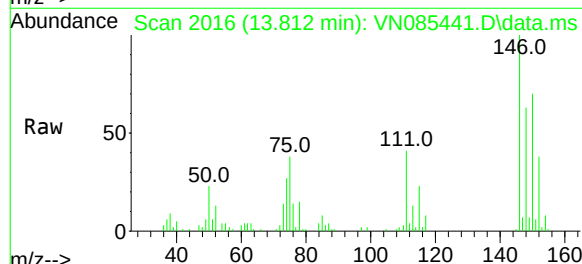
RT: 13.812 min Scan# 2016

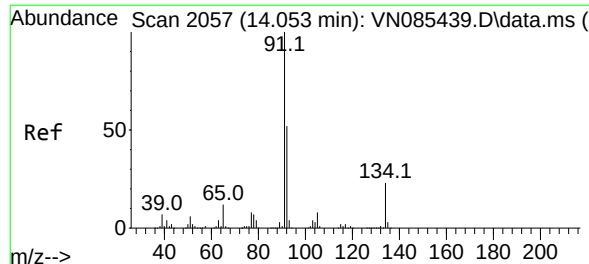
Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	146	Resp:	42728
Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.3	63.7
148	64.6	32.4	97.0





#89

n-Butylbenzene

Concen: 9.314 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

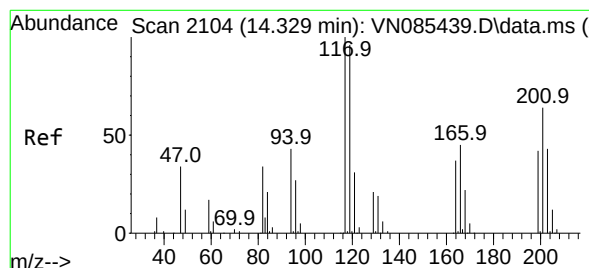
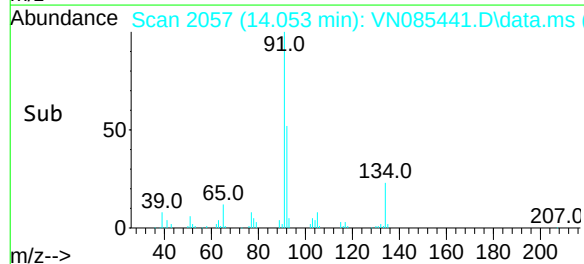
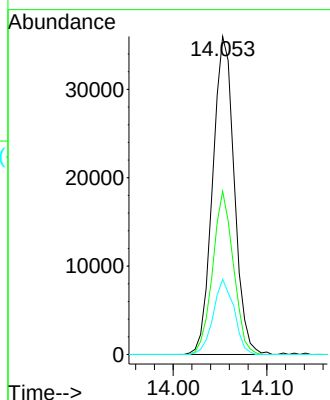
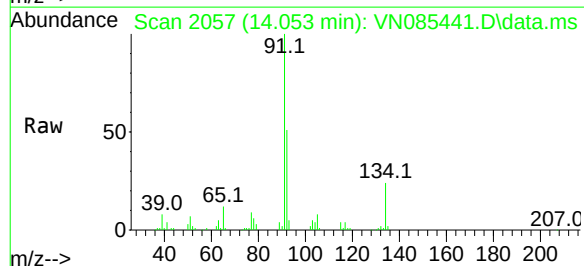
ClientSampleId :

VSTDICC010

Tgt Ion:	91	Resp:	57632
Ion	Ratio	Lower	Upper
91	100		
92	49.2	25.8	77.3
134	22.8	11.7	35.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#90

Hexachloroethane

Concen: 9.294 ug/l

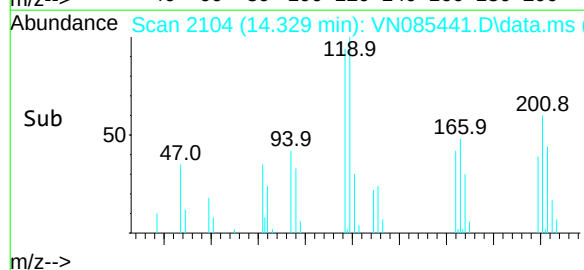
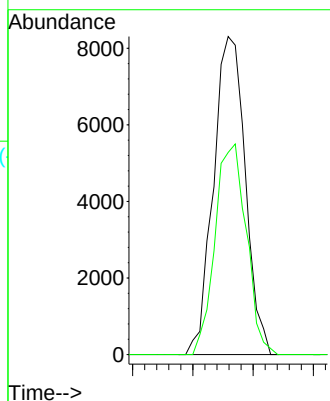
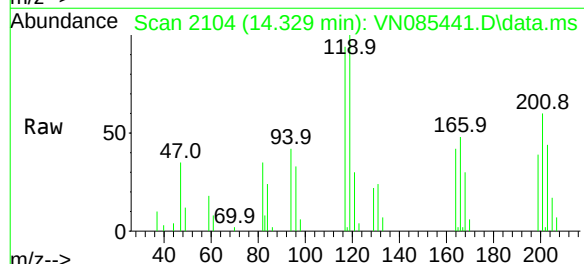
RT: 14.329 min Scan# 2104

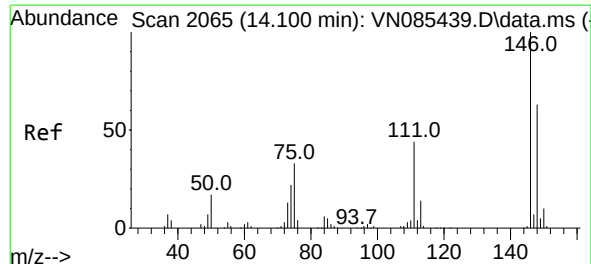
Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	117	Resp:	15261
Ion	Ratio	Lower	Upper
117	100		
201	65.0	33.7	101.0





#91

1,2-Dichlorobenzene

Concen: 9.458 ug/l

RT: 14.106 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

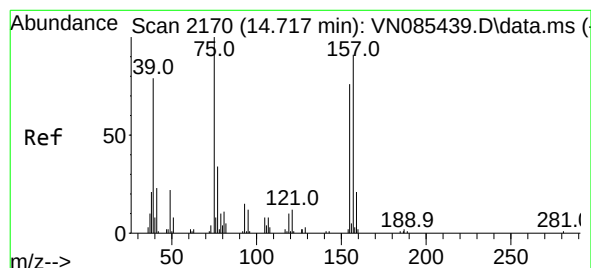
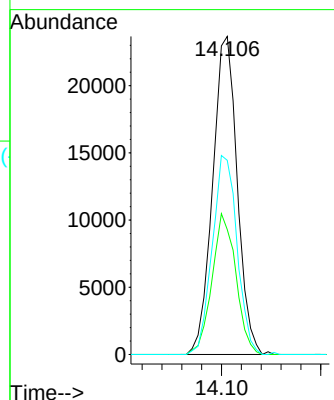
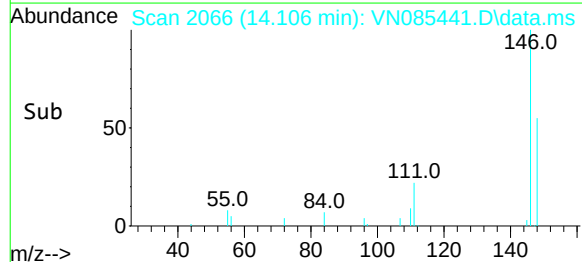
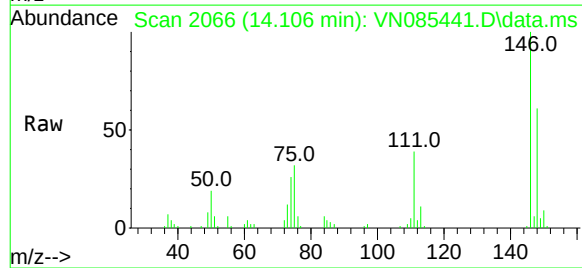
ClientSampleId :

VSTDIC010

Tgt Ion:	146	Resp:	40726
Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.7	65.1
148	62.9	31.4	94.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 9.744 ug/l

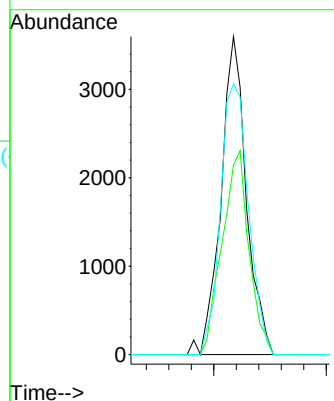
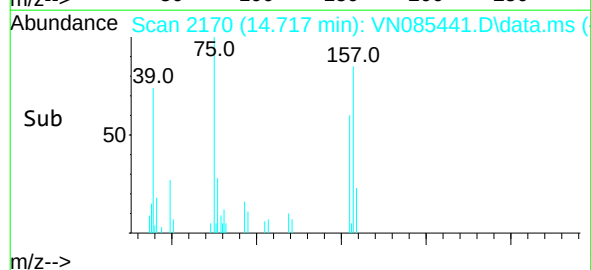
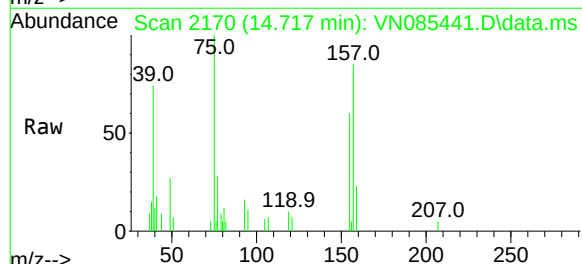
RT: 14.717 min Scan# 2170

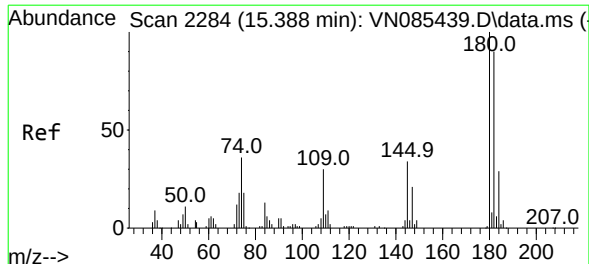
Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	75	Resp:	5639
Ion	Ratio	Lower	Upper
75	100		
155	67.9	36.4	109.2
157	94.1	45.4	136.1





#93

1,2,4-Trichlorobenzene

Concen: 9.354 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion:180 Resp: 18720

Ion Ratio Lower Upper

180 100

182 92.4 46.8 140.3

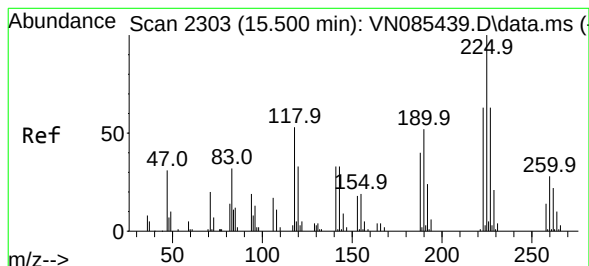
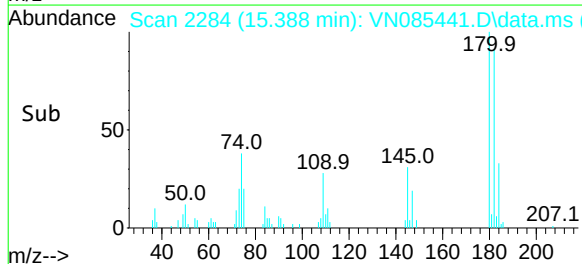
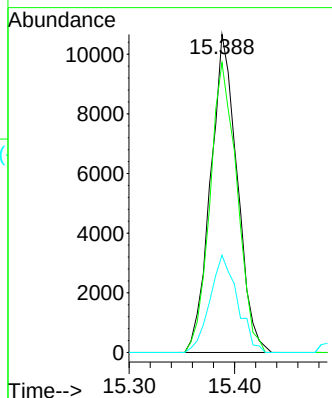
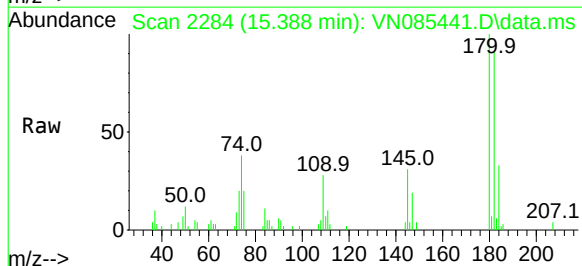
145 31.7 16.0 48.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#94

Hexachlorobutadiene

Concen: 9.874 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

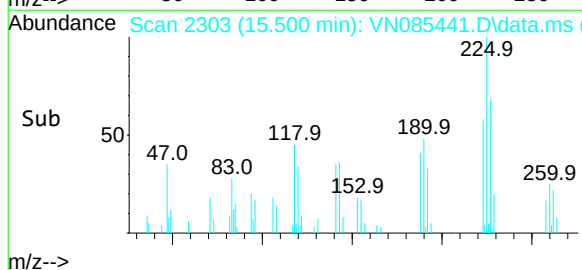
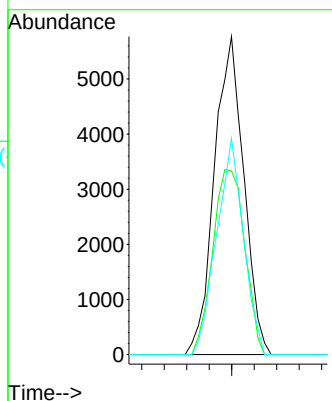
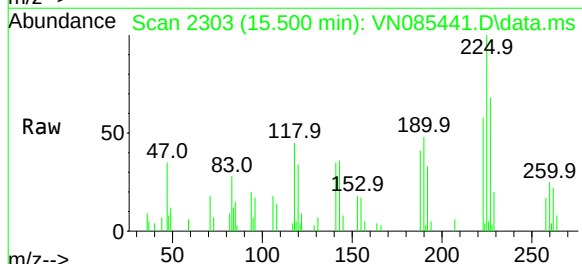
Tgt Ion:225 Resp: 10491

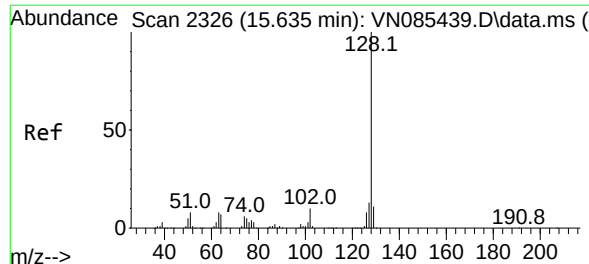
Ion Ratio Lower Upper

225 100

223 63.3 30.7 92.1

227 62.1 30.9 92.5





#95

Naphthalene

Concen: 8.717 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

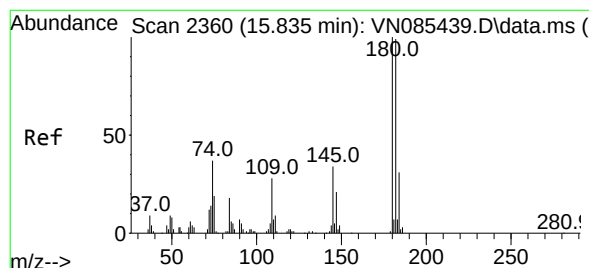
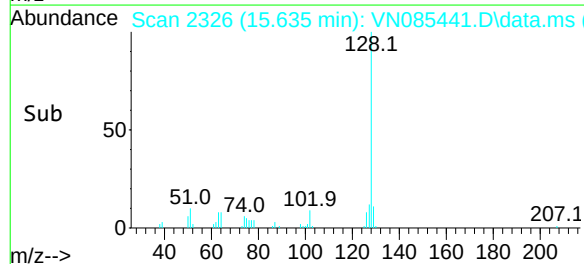
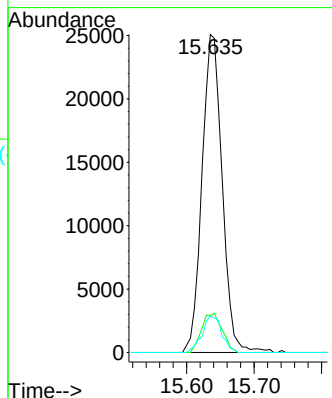
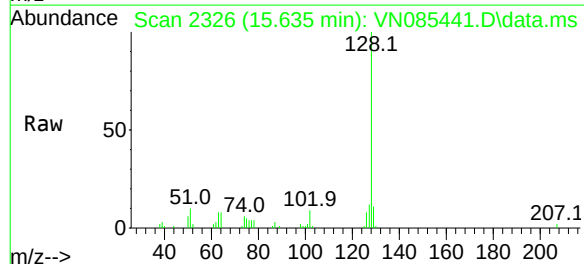
ClientSampleId :

VSTDIC010

Tgt Ion:	128	Resp:	52054
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.6	16.0
129	11.2	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#96

1,2,3-Trichlorobenzene

Concen: 9.605 ug/l

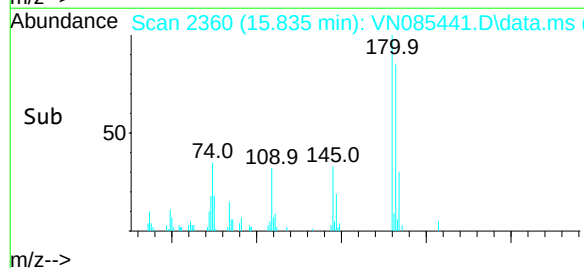
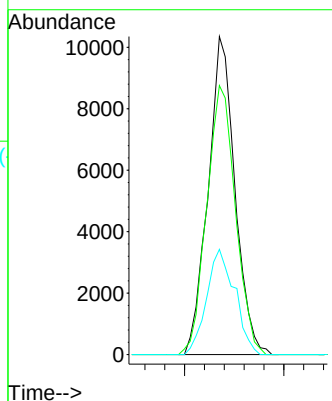
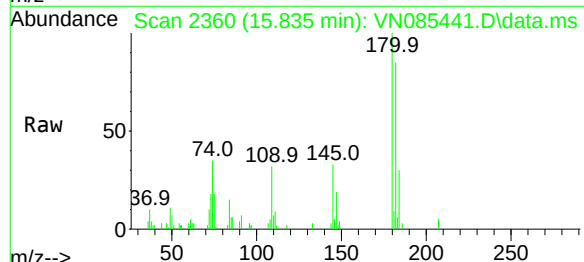
RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	180	Resp:	19450
Ion	Ratio	Lower	Upper
180	100		
182	90.3	47.4	142.2
145	34.7	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085442.D
 Acq On : 14 Jan 2025 16:31
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:45:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	186556	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	324413	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	282203	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	126086	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	17046	5.660	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	11.320%#
35) Dibromofluoromethane	8.165	113	12102	5.377	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	10.760%#
50) Toluene-d8	10.565	98	41328	5.168	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	10.340%#
62) 4-Bromofluorobenzene	12.847	95	13520	4.943	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	9.880%#

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	13199	5.225	ug/l	97
3) Chloromethane	2.359	50	14526	5.311	ug/l	96
4) Vinyl Chloride	2.512	62	14564	5.298	ug/l	98
5) Bromomethane	2.953	94	9788	5.895	ug/l	98
6) Chloroethane	3.124	64	9430	5.411	ug/l	99
7) Trichlorofluoromethane	3.501	101	20098	5.039	ug/l	92
8) Diethyl Ether	3.959	74	6652	4.828	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	11917	5.305	ug/l	97
10) Methyl Iodide	4.583	142	12331	4.793	ug/l	99
11) Tert butyl alcohol	5.518	59	9075	26.318	ug/l #	94
12) 1,1-Dichloroethene	4.342	96	10429	5.209	ug/l	96
13) Acrolein	4.171	56	9430	20.033	ug/l	97
14) Allyl chloride	5.030	41	16741	5.153	ug/l	97
15) Acrylonitrile	5.718	53	27869	25.445	ug/l	97
16) Acetone	4.430	43	25122	25.819	ug/l	97
17) Carbon Disulfide	4.706	76	32068	5.202	ug/l	96
18) Methyl Acetate	5.024	43	15106	5.106	ug/l	97
19) Methyl tert-butyl Ether	5.800	73	31439	4.836	ug/l	94
20) Methylene Chloride	5.271	84	12981	5.389	ug/l #	83
21) trans-1,2-Dichloroethene	5.783	96	10614	4.960	ug/l #	78
22) Diisopropyl ether	6.665	45	35785	4.962	ug/l #	96
23) Vinyl Acetate	6.600	43	118439m	23.389	ug/l	
24) 1,1-Dichloroethane	6.565	63	22865	5.200	ug/l	99
25) 2-Butanone	7.483	43	36127	25.231	ug/l	99
26) 2,2-Dichloropropane	7.488	77	18398	5.175	ug/l	100
27) cis-1,2-Dichloroethene	7.488	96	12477	4.951	ug/l	99
28) Bromochloromethane	7.806	49	11096	5.424	ug/l	99
29) Tetrahydrofuran	7.841	42	21983	24.215	ug/l	99
30) Chloroform	7.959	83	23384	5.146	ug/l	98
31) Cyclohexane	8.247	56	22343	5.846	ug/l #	92
32) 1,1,1-Trichloroethane	8.159	97	21416	5.372	ug/l	91
36) 1,1-Dichloropropene	8.371	75	15886	5.029	ug/l	96
37) Ethyl Acetate	7.553	43	16879m	5.294	ug/l	
38) Carbon Tetrachloride	8.359	117	18317	5.065	ug/l	96
39) Methylcyclohexane	9.600	83	14175	4.776	ug/l	98
40) Benzene	8.600	78	47833	5.040	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085442.D
 Acq On : 14 Jan 2025 16:31
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:45:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M

Quant Title : SW846 8260

QLast Update : Wed Jan 15 01:28:51 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	7380	4.449	ug/l	96
42) 1,2-Dichloroethane	8.671	62	18628	5.211	ug/l	98
43) Isopropyl Acetate	8.688	43	24792	4.853	ug/l	98
44) Trichloroethene	9.347	130	11133	5.039	ug/l	86
45) 1,2-Dichloropropane	9.618	63	12591	5.194	ug/l	92
46) Dibromomethane	9.700	93	8230	4.705	ug/l	91
47) Bromodichloromethane	9.888	83	18456	5.179	ug/l #	96
48) Methyl methacrylate	9.677	41	10574	4.599	ug/l	95
49) 1,4-Dioxane	9.694	88	3619	93.477	ug/l	97
51) 4-Methyl-2-Pentanone	10.441	43	71889	24.250	ug/l	98
52) Toluene	10.629	92	27098	4.928	ug/l	98
53) t-1,3-Dichloropropene	10.829	75	17099	5.077	ug/l	95
54) cis-1,3-Dichloropropene	10.306	75	17440	4.848	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	11311	5.197	ug/l	96
56) Ethyl methacrylate	10.871	69	14094	5.627	ug/l	94
57) 1,3-Dichloropropane	11.159	76	18945	5.006	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	33210	24.047	ug/l	97
59) 2-Hexanone	11.194	43	49021	23.501	ug/l	94
60) Dibromochloromethane	11.353	129	13635	5.190	ug/l	96
61) 1,2-Dibromoethane	11.471	107	10419	4.810	ug/l	98
64) Tetrachloroethene	11.100	164	9756	5.071	ug/l	91
65) Chlorobenzene	11.888	112	31312	5.065	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	11620	5.121	ug/l	98
67) Ethyl Benzene	11.965	91	48216	4.789	ug/l	98
68) m/p-Xylenes	12.065	106	34771	9.344	ug/l	99
69) o-Xylene	12.394	106	16419	4.617	ug/l	98
70) Styrene	12.412	104	26218	4.454	ug/l	99
71) Bromoform	12.576	173	8017	4.938	ug/l #	99
73) Isopropylbenzene	12.694	105	39811	4.678	ug/l	99
74) N-amyl acetate	12.488	43	17577	4.595	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.935	83	15483	5.151	ug/l	97
76) 1,2,3-Trichloropropane	12.994	75	12173m	4.758	ug/l	
77) Bromobenzene	12.982	156	11091	4.989	ug/l	99
78) n-propylbenzene	13.035	91	45450	4.512	ug/l	99
79) 2-Chlorotoluene	13.123	91	31932	4.898	ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	31891	4.537	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	4229	4.465	ug/l	90
82) 4-Chlorotoluene	13.218	91	31976	4.926	ug/l	100
83) tert-Butylbenzene	13.435	119	27597	4.675	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	32054	4.575	ug/l	98
85) sec-Butylbenzene	13.612	105	38148	4.663	ug/l	98
86) p-Isopropyltoluene	13.723	119	29856	4.584	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	20876	5.099	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	21982	5.179	ug/l	97
89) n-Butylbenzene	14.053	91	27437	4.675	ug/l	96
90) Hexachloroethane	14.329	117	7767	4.987	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	20177	4.940	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.729	75	2872	5.232	ug/l	90
93) 1,2,4-Trichlorobenzene	15.388	180	9037	4.761	ug/l	94
94) Hexachlorobutadiene	15.500	225	5563	5.520	ug/l	98
95) Naphthalene	15.641	128	25047	4.422	ug/l	96
96) 1,2,3-Trichlorobenzene	15.841	180	8737	4.549	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085442.D
Acq On : 14 Jan 2025 16:31
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:45:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

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

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

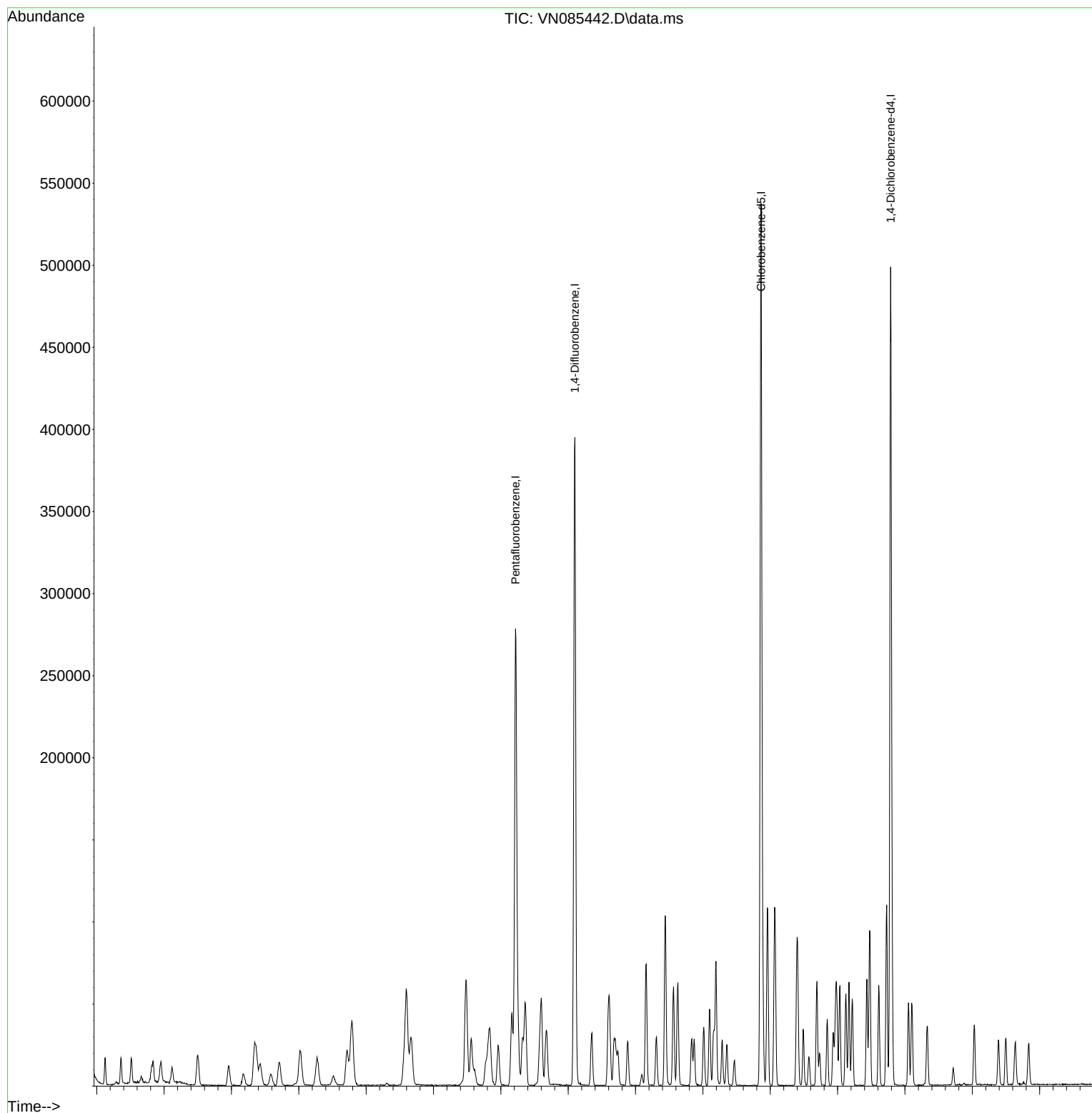
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085442.D
Acq On : 14 Jan 2025 16:31
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

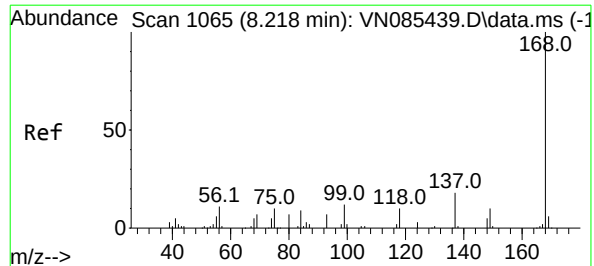
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:45:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration





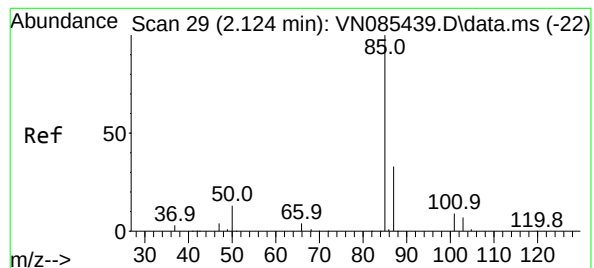
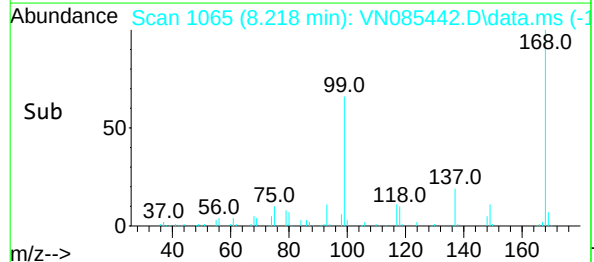
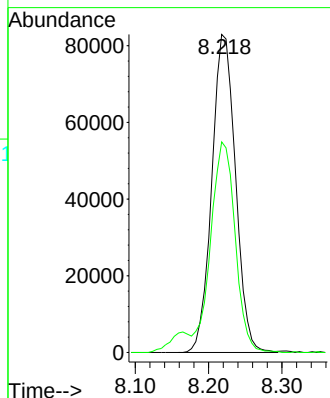
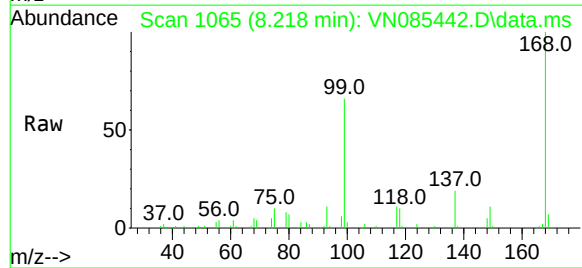
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 168 Resp: 186556
Ion Ratio Lower Upper
168 100
99 65.9 53.6 80.4

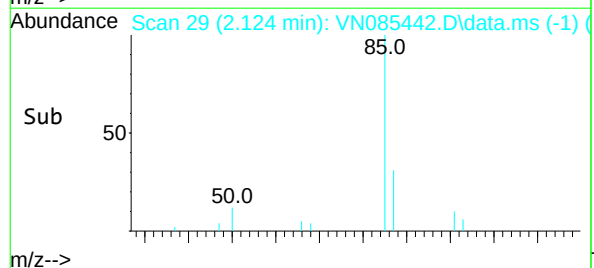
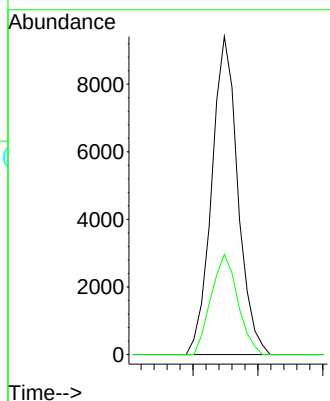
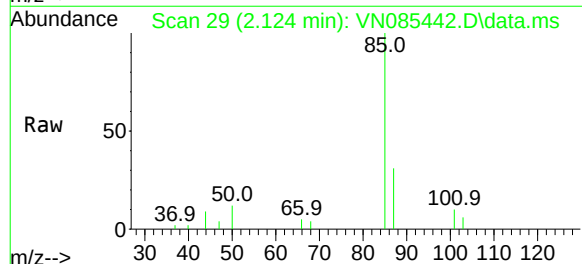
Manual Integrations
APPROVED

Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025

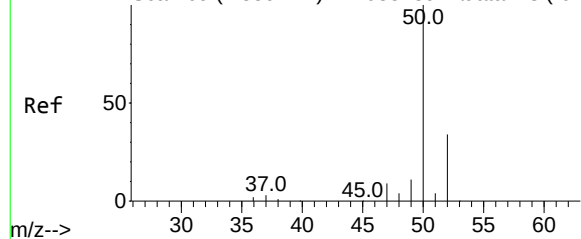


#2
Dichlorodifluoromethane
Concen: 5.225 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 85 Resp: 13199
Ion Ratio Lower Upper
85 100
87 31.5 16.7 50.1



Abundance Scan 69 (2.359 min): VN085439.D\data.ms (-62)



#3

Chloromethane

Concen: 5.311 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 50 Resp: 14526

Ion Ratio Lower Upper

50 100

52 31.6 27.0 40.6

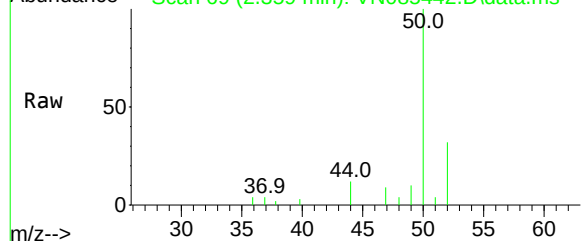
Manual Integrations

APPROVED

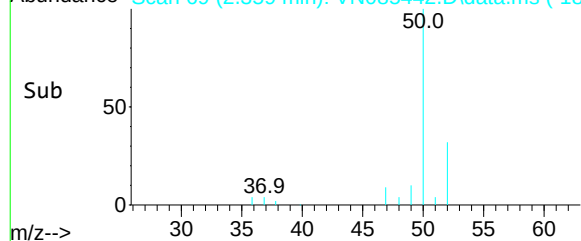
Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025

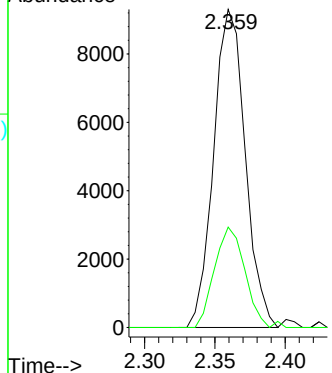
Abundance Scan 69 (2.359 min): VN085442.D\data.ms



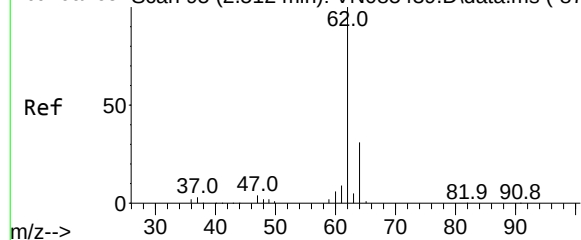
Abundance Scan 69 (2.359 min): VN085442.D\data.ms (-18)



Abundance



Abundance Scan 95 (2.512 min): VN085439.D\data.ms (-87)



#4

Vinyl Chloride

Concen: 5.298 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

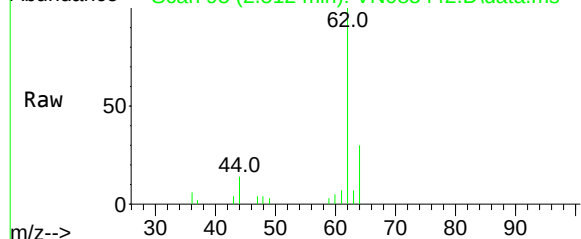
Tgt Ion: 62 Resp: 14564

Ion Ratio Lower Upper

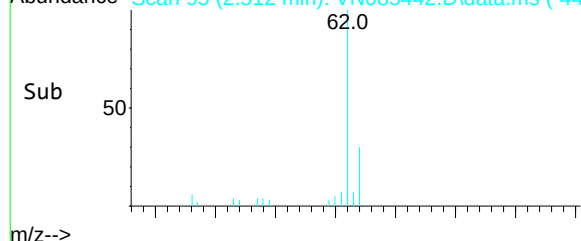
62 100

64 29.9 24.8 37.2

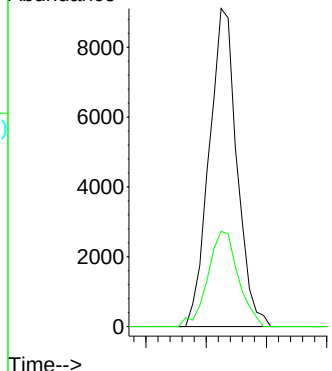
Abundance Scan 95 (2.512 min): VN085442.D\data.ms

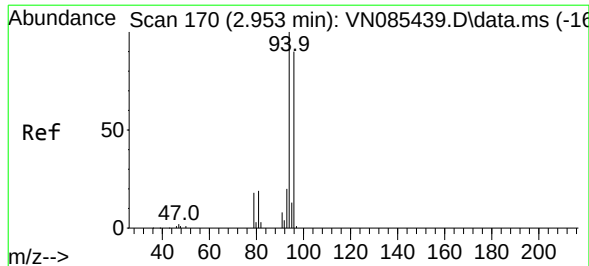


Abundance Scan 95 (2.512 min): VN085442.D\data.ms (-44)



Abundance





#5

Bromomethane

Concen: 5.895 ug/l

RT: 2.953 min Scan# 170

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 94 Resp: 9788

Ion Ratio Lower Upper

94 100

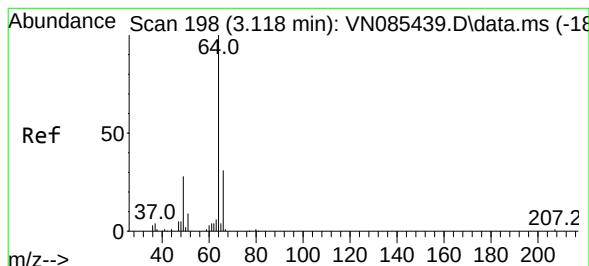
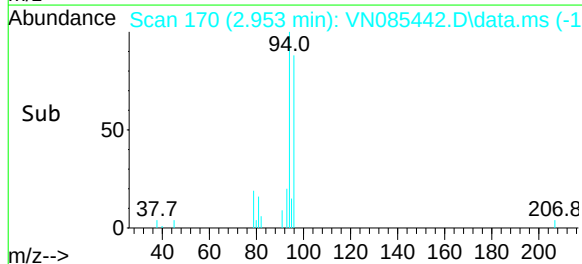
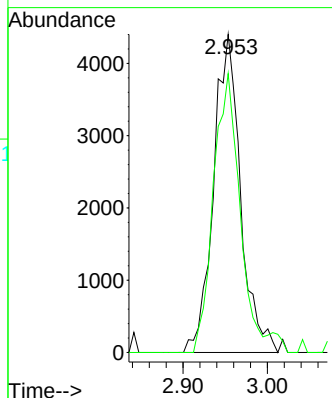
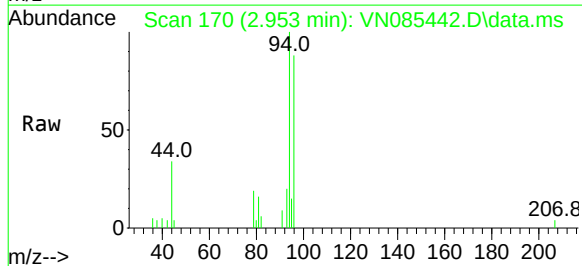
96 87.7 71.8 107.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#6

Chloroethane

Concen: 5.411 ug/l

RT: 3.124 min Scan# 199

Delta R.T. 0.006 min

Lab File: VN085442.D

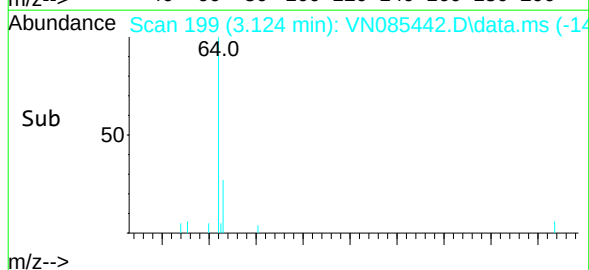
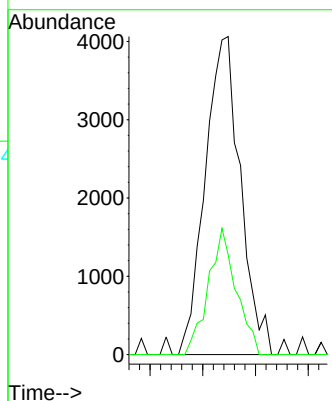
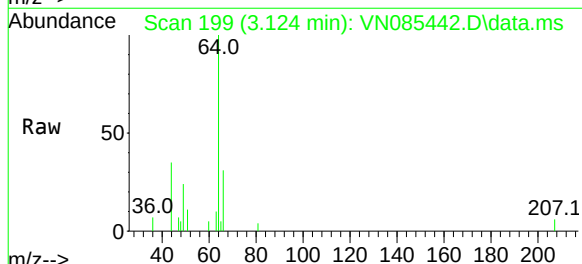
Acq: 14 Jan 2025 16:31

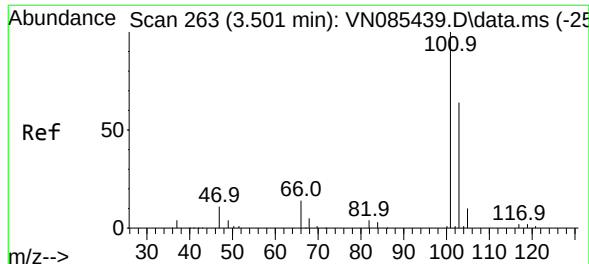
Tgt Ion: 64 Resp: 9430

Ion Ratio Lower Upper

64 100

66 31.4 24.6 36.8





#7

Trichlorofluoromethane

Concen: 5.039 ug/l

RT: 3.501 min Scan# 26

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion:101 Resp: 20098

Ion Ratio Lower Upper

101 100

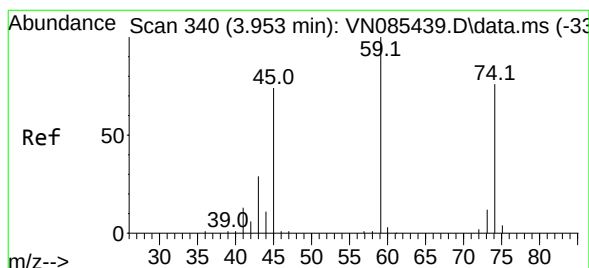
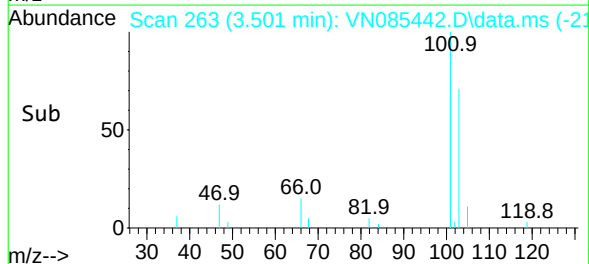
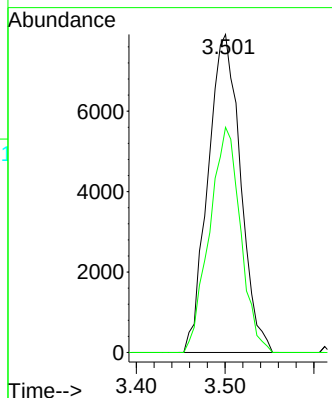
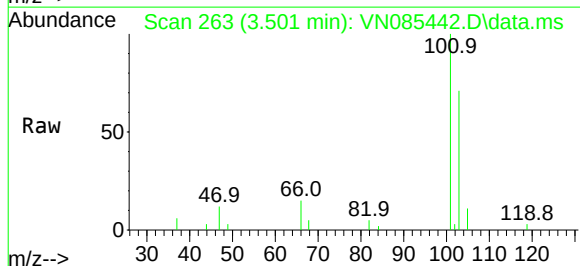
103 70.8 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#8

Diethyl Ether

Concen: 4.828 ug/l

RT: 3.959 min Scan# 341

Delta R.T. 0.006 min

Lab File: VN085442.D

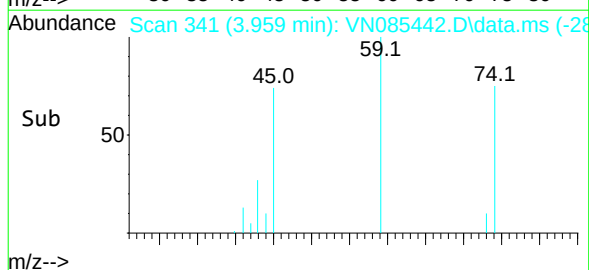
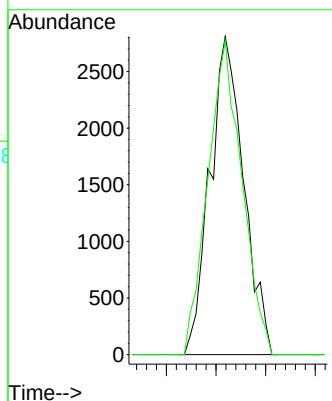
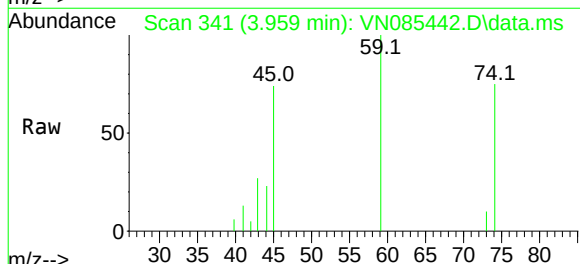
Acq: 14 Jan 2025 16:31

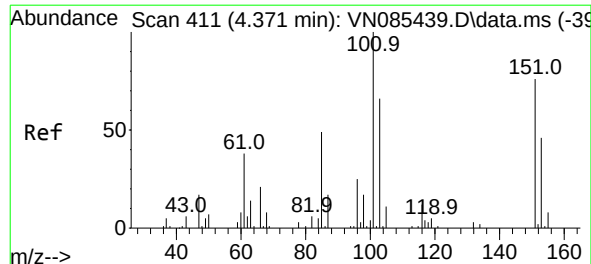
Tgt Ion: 74 Resp: 6652

Ion Ratio Lower Upper

74 100

45 99.5 49.7 149.1





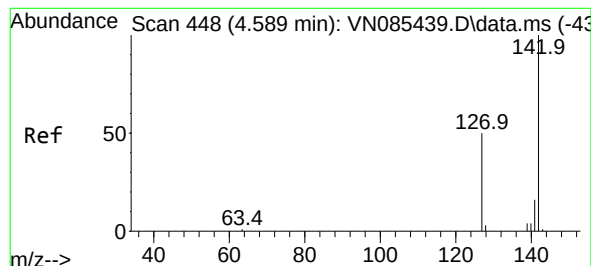
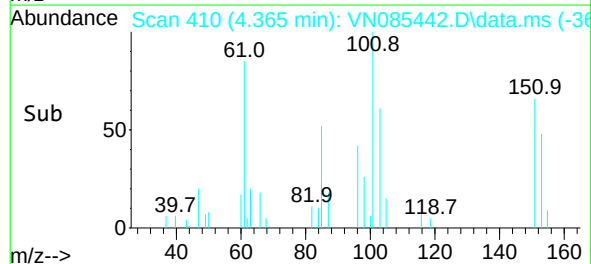
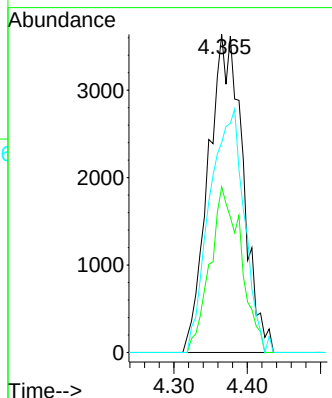
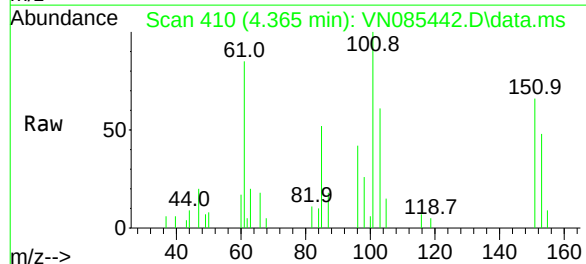
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.305 ug/l
RT: 4.365 min Scan# 411
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 11917
Ion Ratio Lower Upper
101 100
85 46.5 37.8 56.8
151 76.7 58.8 88.2

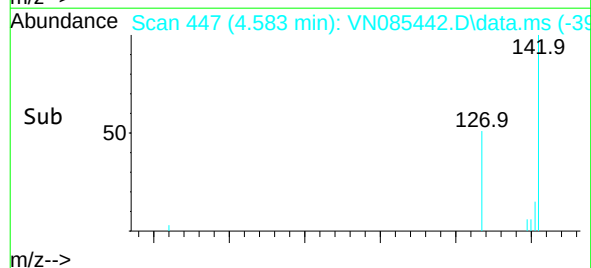
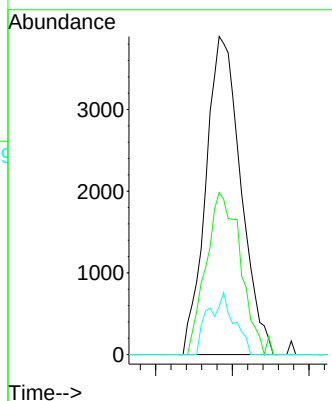
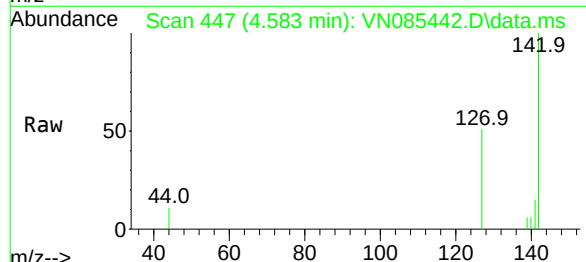
Manual Integrations
APPROVED

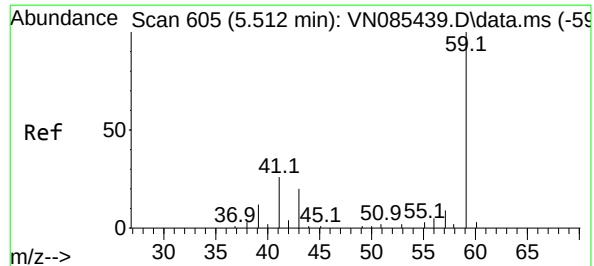
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#10
Methyl Iodide
Concen: 4.793 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:142 Resp: 12331
Ion Ratio Lower Upper
142 100
127 50.9 40.3 60.5
141 15.0 12.8 19.2





#11

Tert butyl alcohol

Concen: 26.318 ug/l

RT: 5.518 min Scan# 605

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 9075

Ion Ratio Lower Upper

59 100

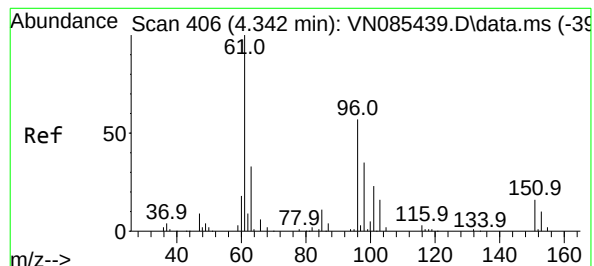
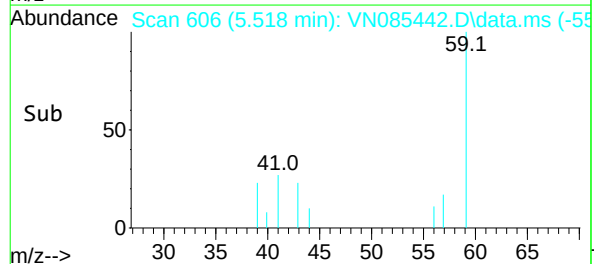
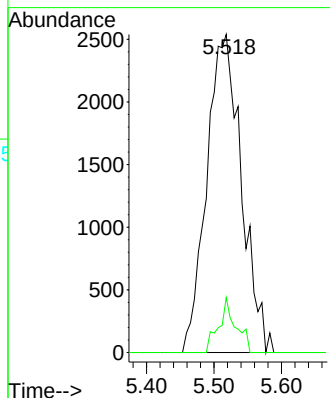
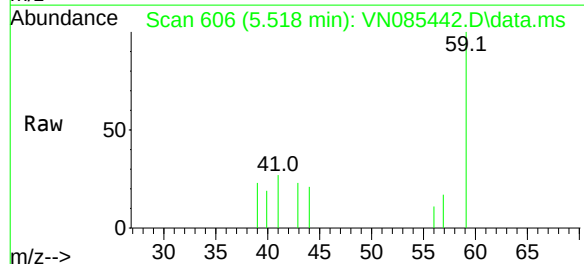
57 8.5 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#12

1,1-Dichloroethene

Concen: 5.209 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

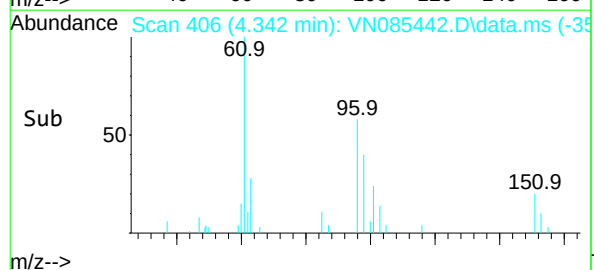
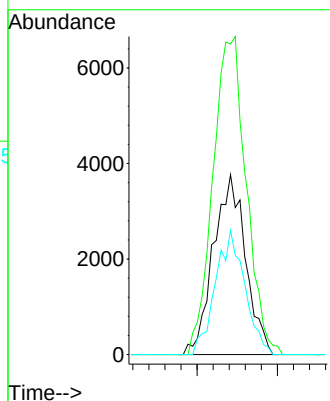
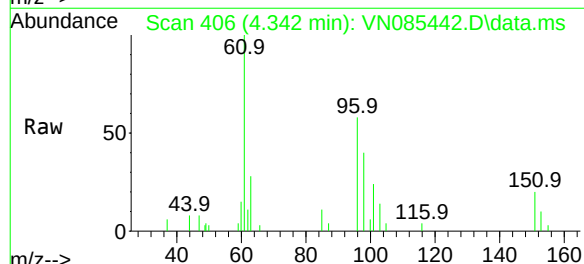
Tgt Ion: 96 Resp: 10429

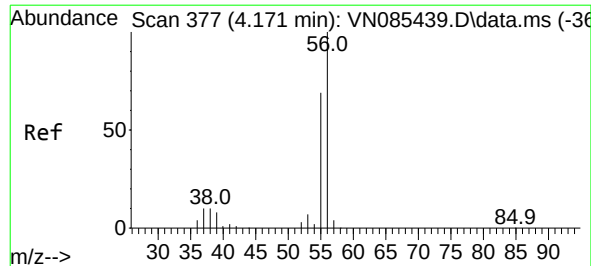
Ion Ratio Lower Upper

96 100

61 172.7 141.0 211.4

98 69.0 49.0 73.6





#13

Acrolein

Concen: 20.033 ug/l

RT: 4.171 min Scan# 377

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 56 Resp: 9430

Ion Ratio Lower Upper

56 100

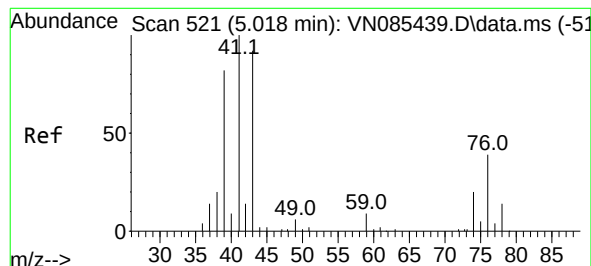
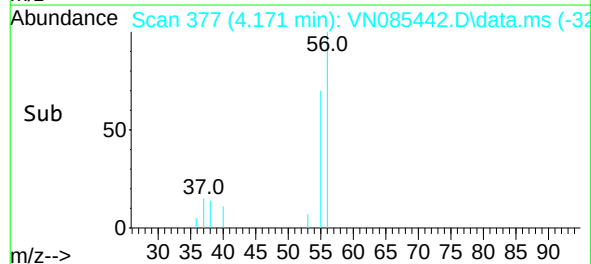
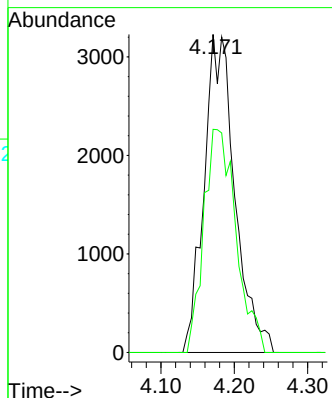
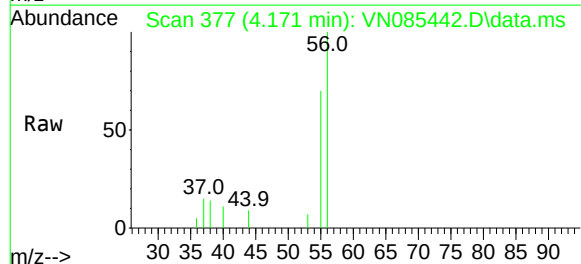
55 73.2 56.3 84.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#14

Allyl chloride

Concen: 5.153 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

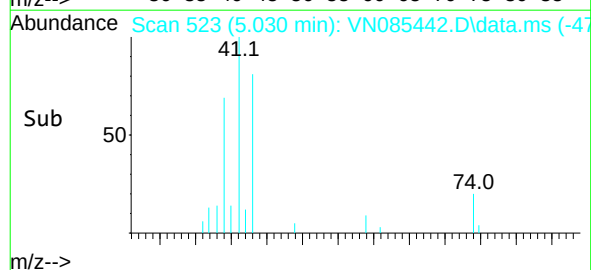
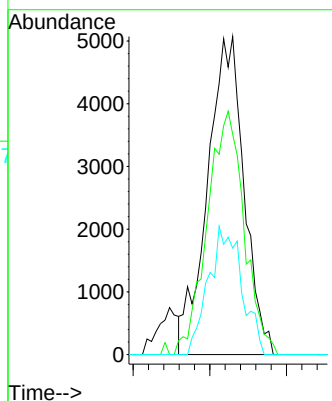
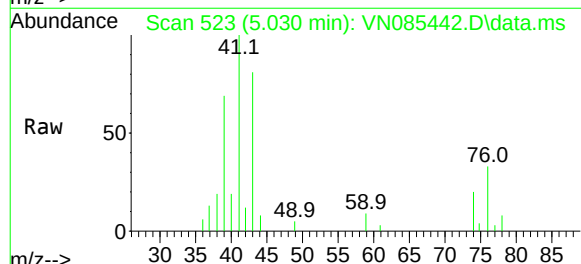
Tgt Ion: 41 Resp: 16741

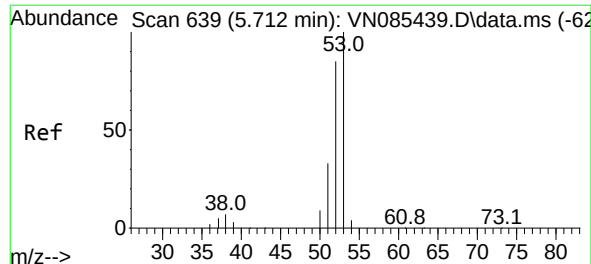
Ion Ratio Lower Upper

41 100

39 77.4 64.4 96.6

76 36.6 30.5 45.7





#15

Acrylonitrile

Concen: 25.445 ug/l

RT: 5.718 min Scan# 64

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

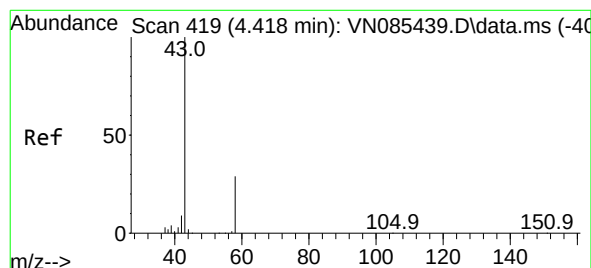
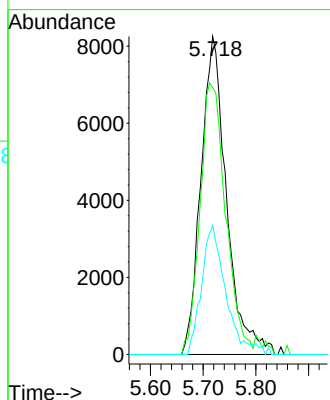
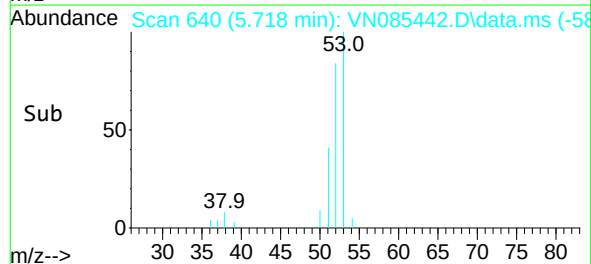
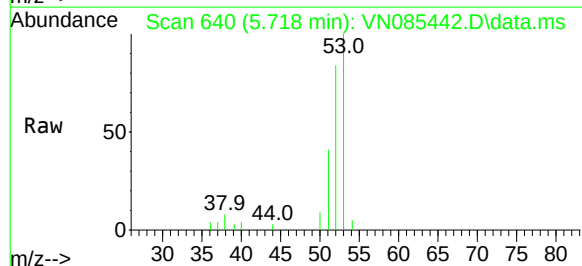
ClientSampleId :

VSTDICC005

Tgt Ion:	53	Resp:	27869
Ion	Ratio	Lower	Upper
53	100		
52	85.5	65.5	98.3
51	38.5	29.8	44.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#16

Acetone

Concen: 25.819 ug/l

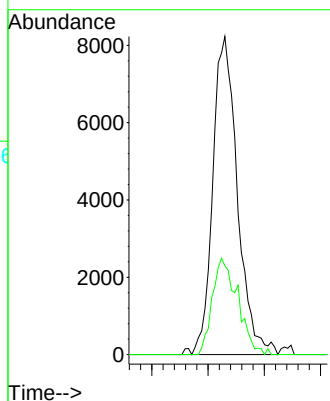
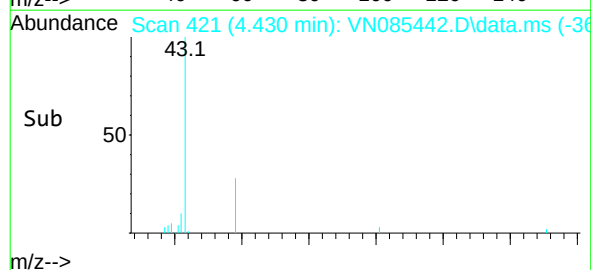
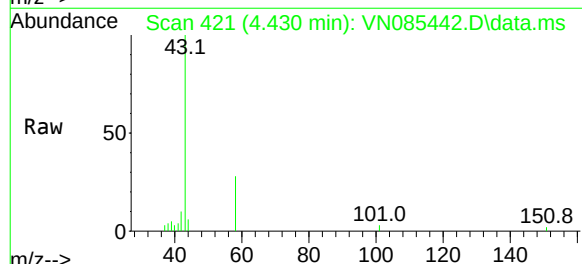
RT: 4.430 min Scan# 421

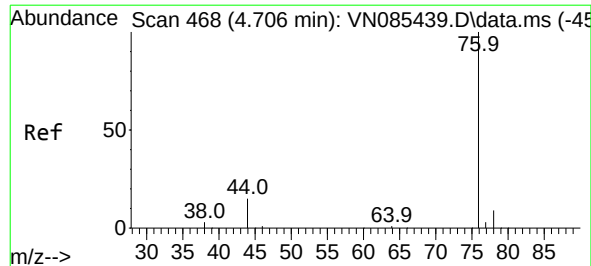
Delta R.T. 0.012 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion:	43	Resp:	25122
Ion	Ratio	Lower	Upper
43	100		
58	27.9	23.8	35.6





#17

Carbon Disulfide

Concen: 5.202 ug/l

RT: 4.706 min Scan# 468

Delta R.T. 0.000 min

Lab File: VN085442.D

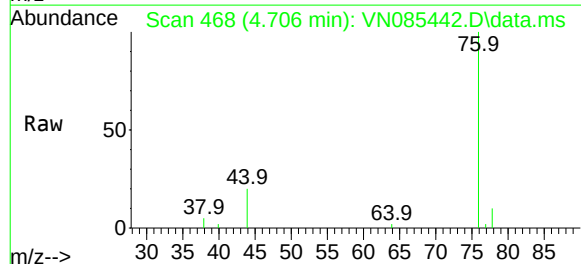
Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005



Tgt Ion: 76 Resp: 32068

Ion Ratio Lower Upper

76 100

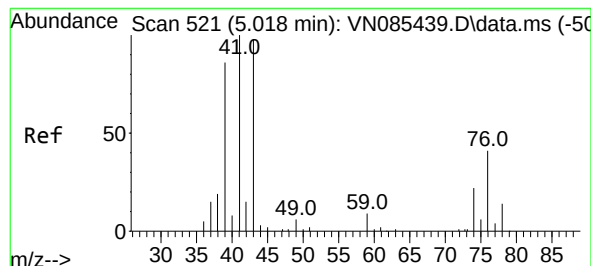
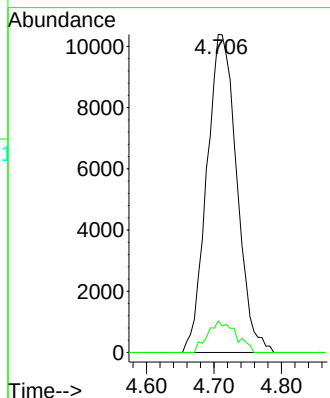
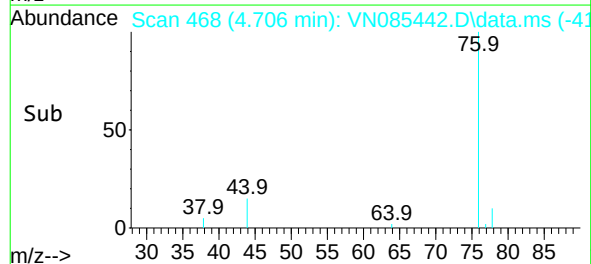
78 9.9 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#18

Methyl Acetate

Concen: 5.106 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085442.D

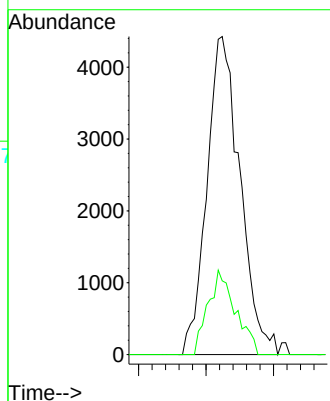
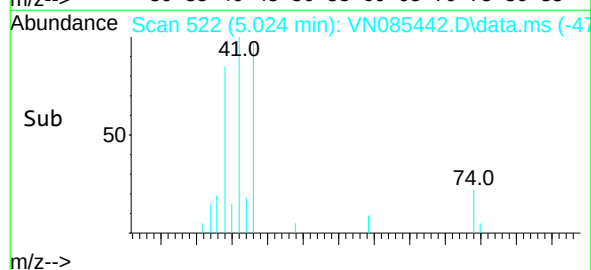
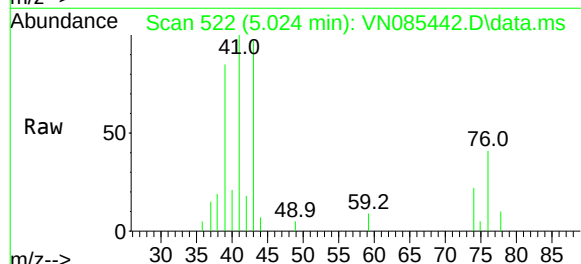
Acq: 14 Jan 2025 16:31

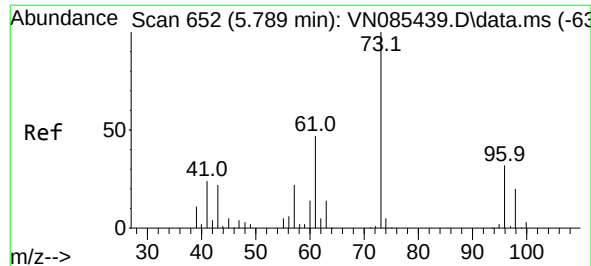
Tgt Ion: 43 Resp: 15106

Ion Ratio Lower Upper

43 100

74 22.0 18.6 28.0





#19

Methyl tert-butyl Ether

Concen: 4.836 ug/l

RT: 5.800 min Scan# 65

Delta R.T. 0.012 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 73 Resp: 31439

Ion Ratio Lower Upper

73 100

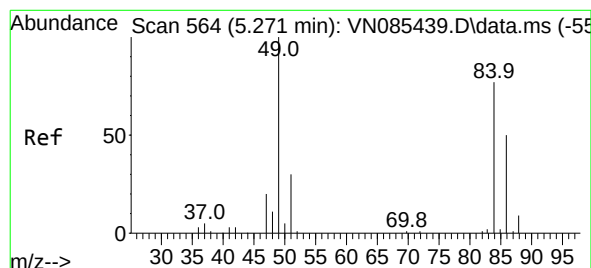
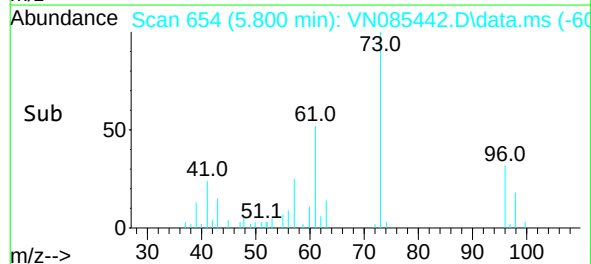
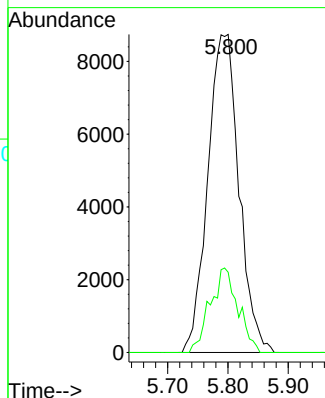
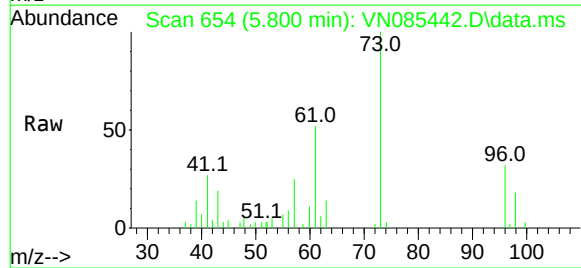
57 25.2 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#20

Methylene Chloride

Concen: 5.389 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion: 84 Resp: 12981

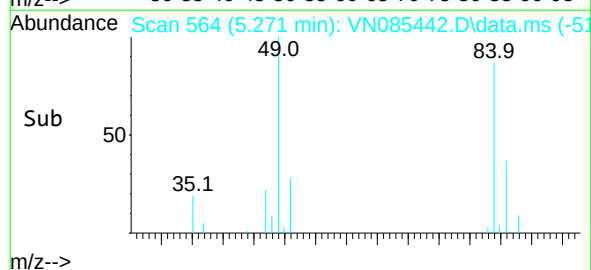
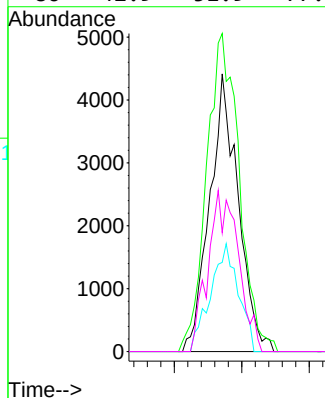
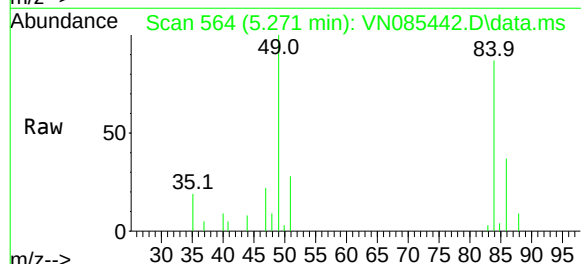
Ion Ratio Lower Upper

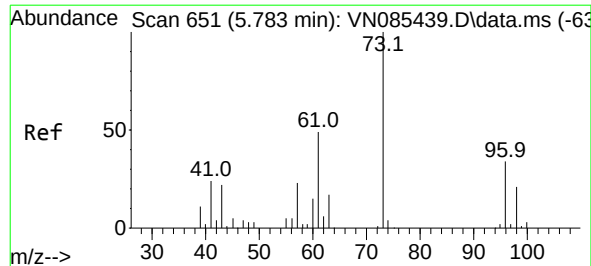
84 100

49 114.5 104.1 156.1

51 32.1 31.0 46.4

86 42.9 51.9 77.9#





#21

trans-1,2-Dichloroethene

Concen: 4.960 ug/l

RT: 5.783 min Scan# 651

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 96 Resp: 10614

Ion Ratio Lower Upper

96 100

61 118.1 115.7 173.5

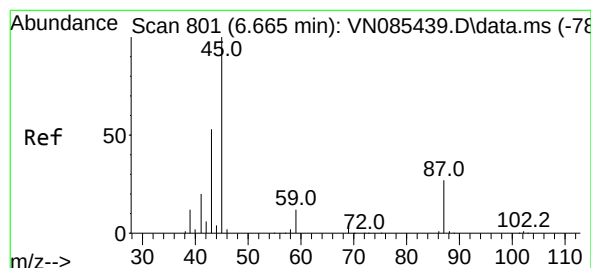
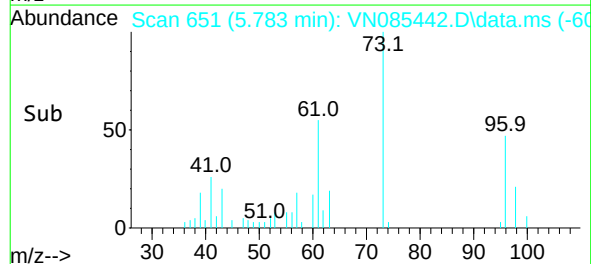
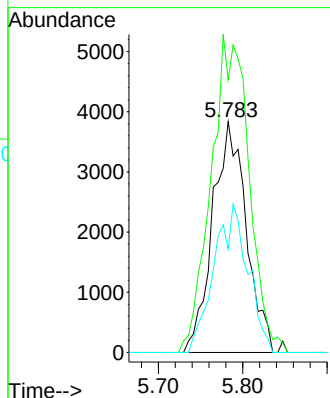
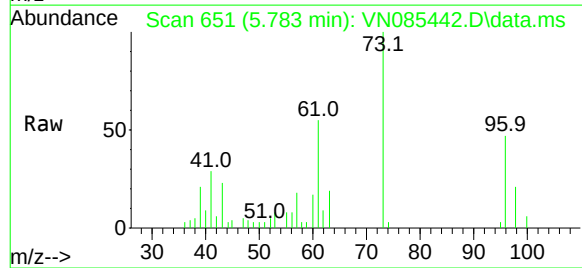
98 44.7 49.8 74.8#

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#22

Diisopropyl ether

Concen: 4.962 ug/l

RT: 6.665 min Scan# 801

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion: 45 Resp: 35785

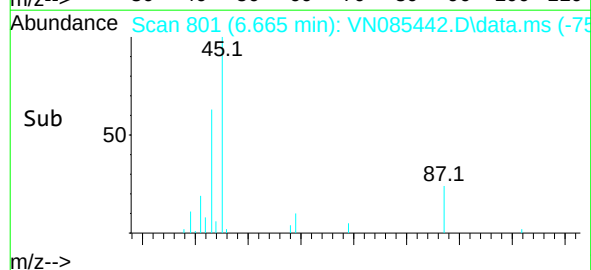
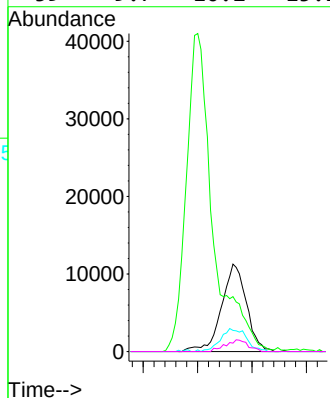
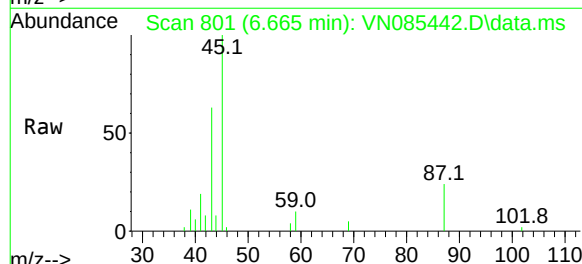
Ion Ratio Lower Upper

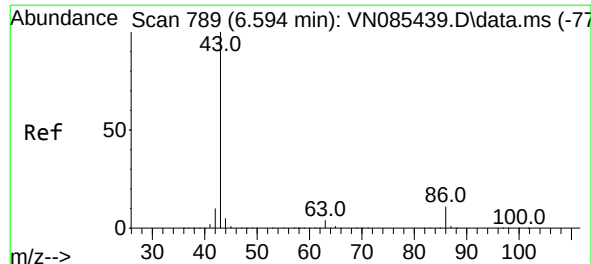
45 100

43 58.3 45.0 67.6

87 24.2 21.8 32.8

59 9.7 10.2 15.2#





#23

Vinyl Acetate

Concen: 23.389 ug/l m

RT: 6.600 min Scan# 790

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 118439

Ion Ratio Lower Upper

43 100

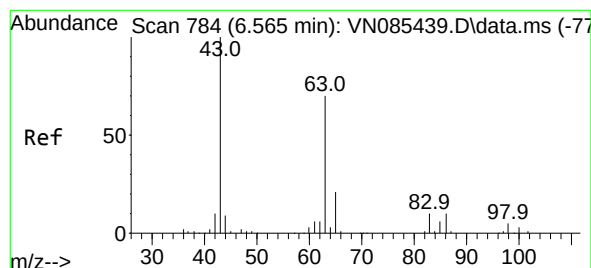
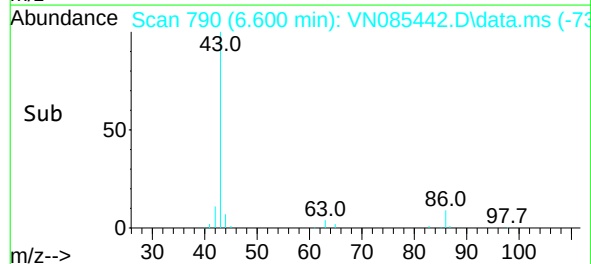
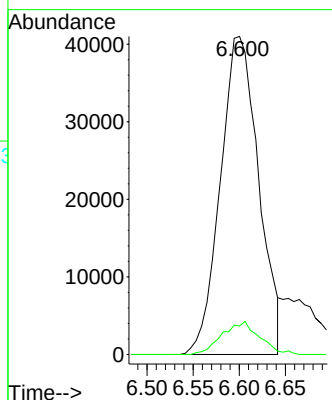
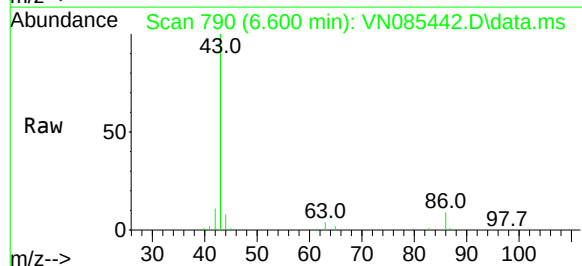
86 9.0 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#24

1,1-Dichloroethane

Concen: 5.200 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

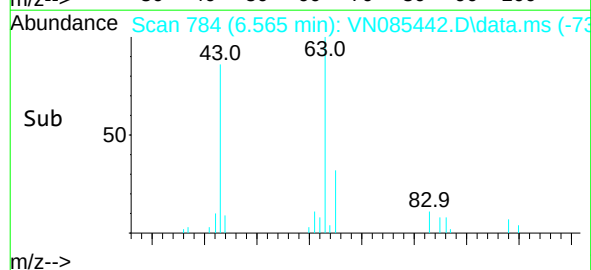
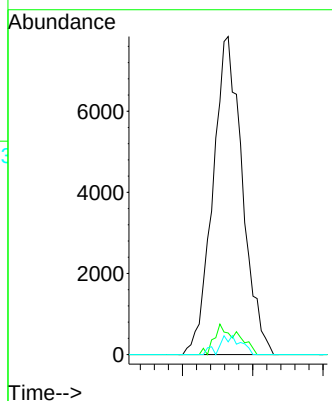
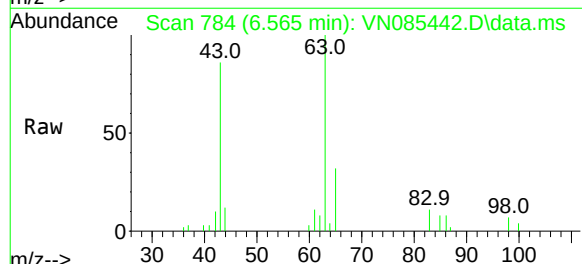
Tgt Ion: 63 Resp: 22865

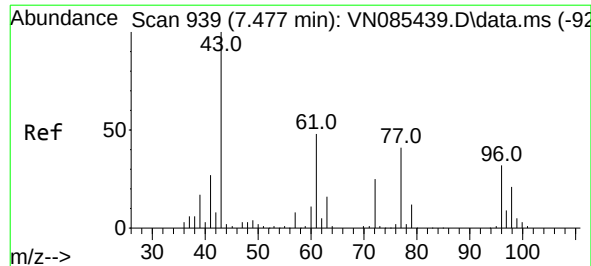
Ion Ratio Lower Upper

63 100

98 6.8 3.3 9.8

100 4.0 2.0 6.0





#25

2-Butanone

Concen: 25.231 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion: 43 Resp: 36127

Ion Ratio Lower Upper

43 100

72 24.9 20.2 30.4

Instrument :

MSVOA_N

ClientSampleId :

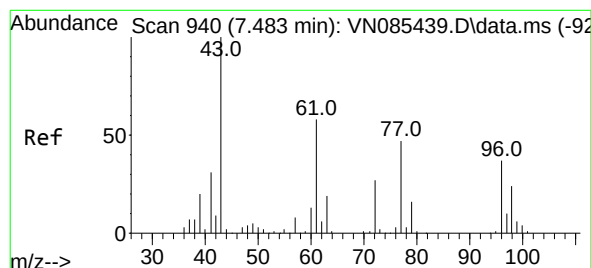
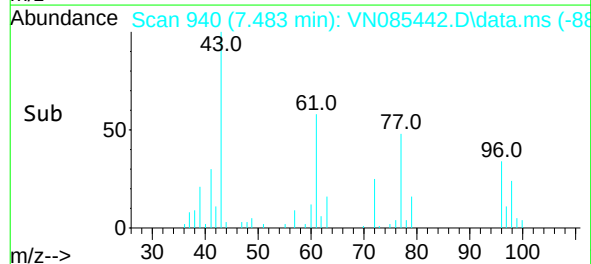
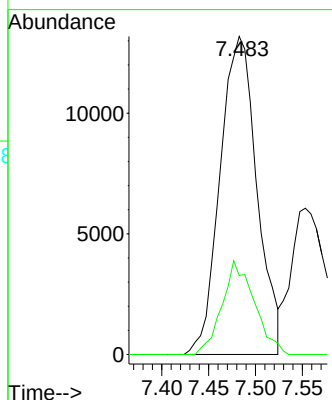
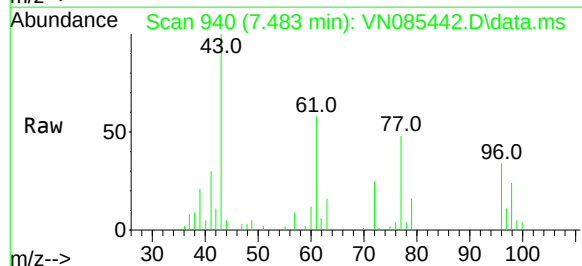
VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#26

2,2-Dichloropropane

Concen: 5.175 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085442.D

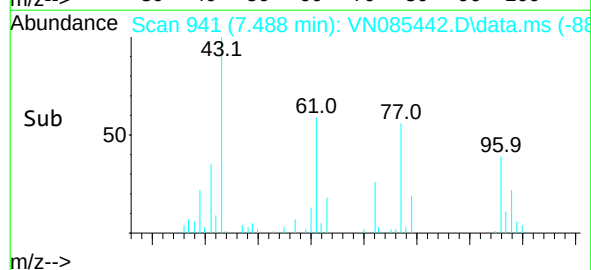
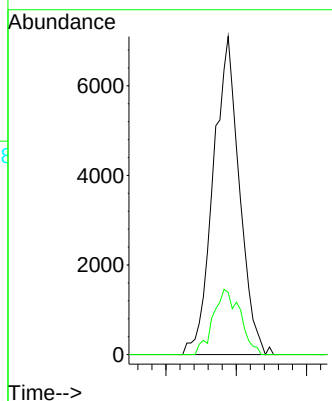
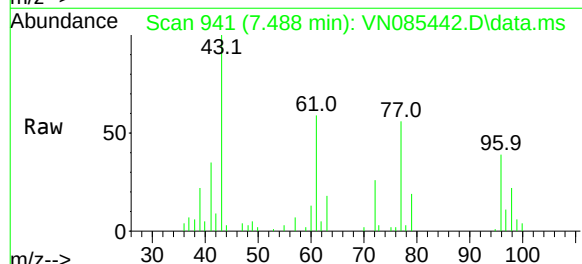
Acq: 14 Jan 2025 16:31

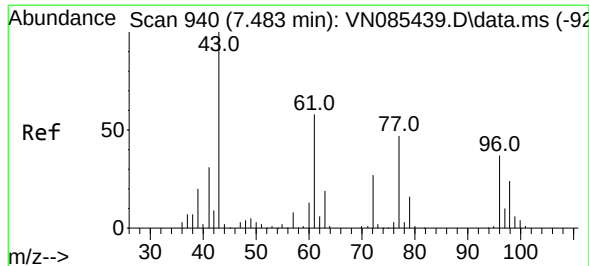
Tgt Ion: 77 Resp: 18398

Ion Ratio Lower Upper

77 100

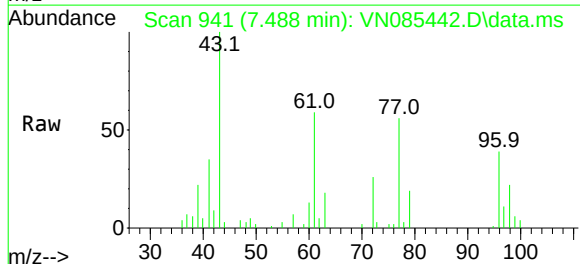
97 21.2 10.7 32.1





#27
cis-1,2-Dichloroethene
Concen: 4.951 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

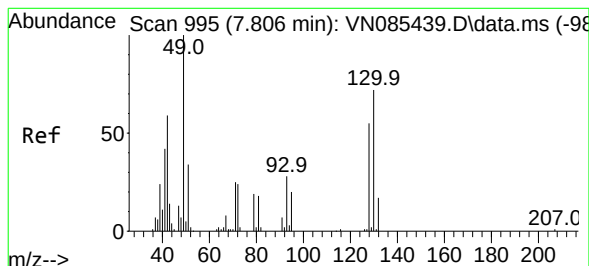
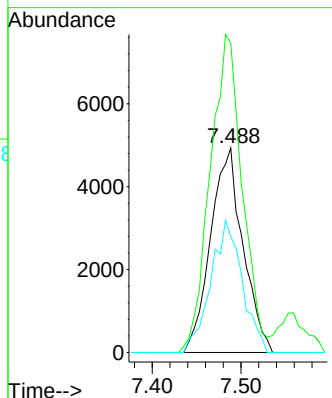
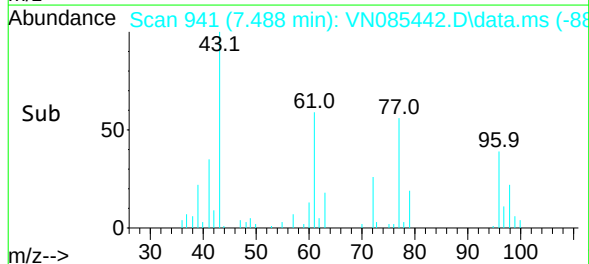
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 96 Resp: 12477
Ion Ratio Lower Upper
96 100
61 154.5 0.0 311.8
98 62.8 0.0 126.0

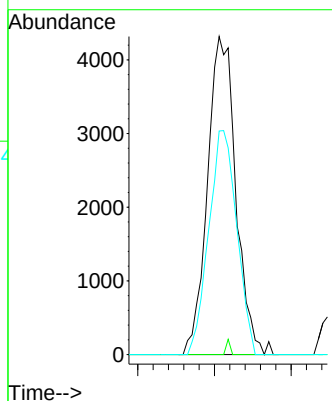
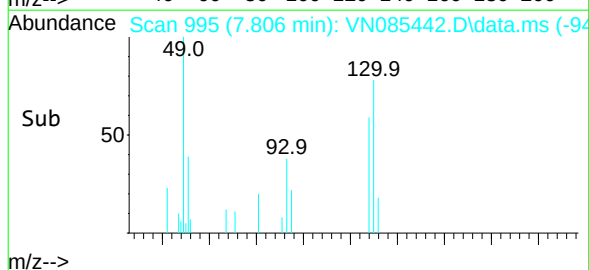
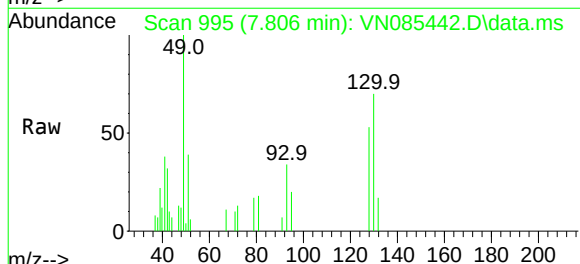
Manual Integrations
APPROVED

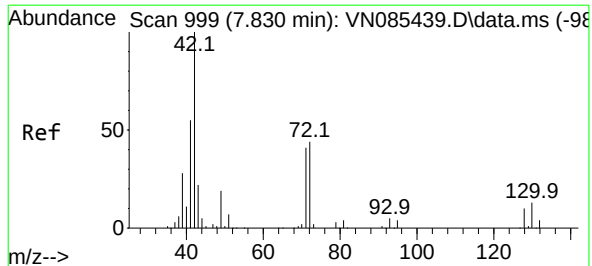
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#28
Bromochloromethane
Concen: 5.424 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 49 Resp: 11096
Ion Ratio Lower Upper
49 100
129 0.7 0.0 4.4
130 69.5 55.0 82.4





#29

Tetrahydrofuran

Concen: 24.215 ug/l

RT: 7.841 min Scan# 10

Delta R.T. 0.012 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 42 Resp: 21983

Ion Ratio Lower Upper

42 100

72 41.5 34.2 51.2

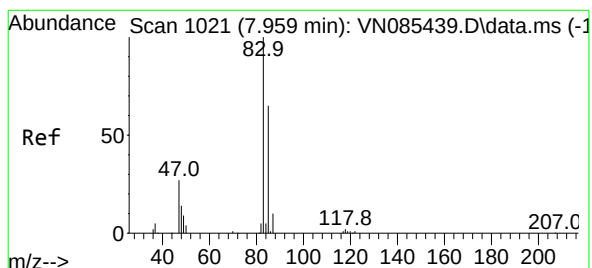
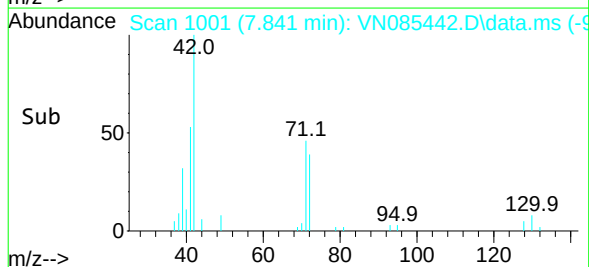
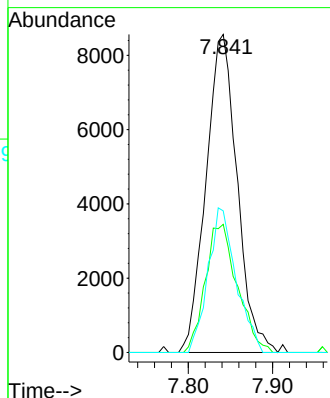
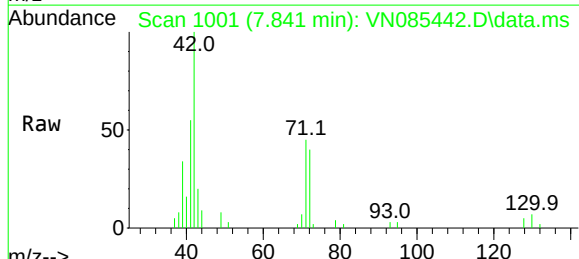
71 41.0 32.5 48.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#30

Chloroform

Concen: 5.146 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. 0.000 min

Lab File: VN085442.D

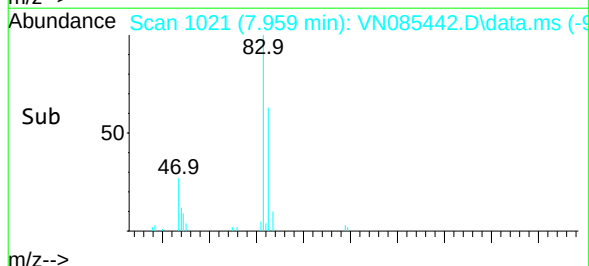
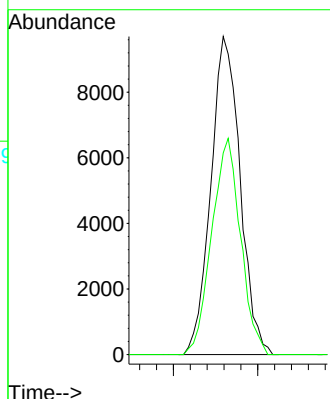
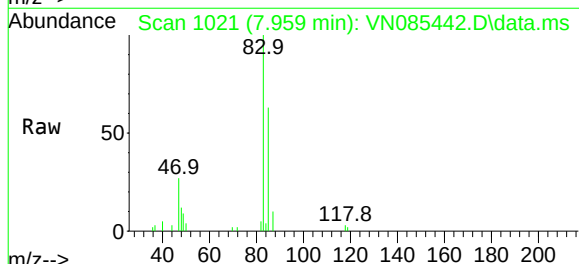
Acq: 14 Jan 2025 16:31

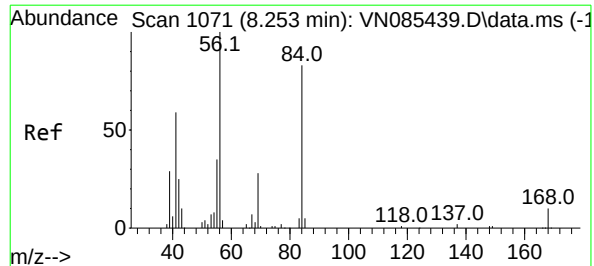
Tgt Ion: 83 Resp: 23384

Ion Ratio Lower Upper

83 100

85 63.4 51.8 77.6





#31

Cyclohexane

Concen: 5.846 ug/l

RT: 8.247 min Scan# 1071

Delta R.T. -0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 22343

Ion Ratio Lower Upper

56 100

69 42.3 22.2 33.4

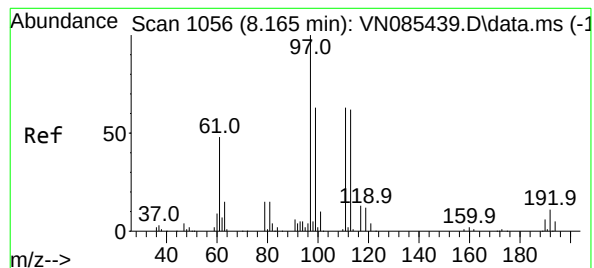
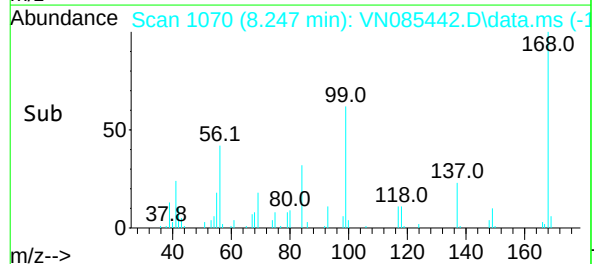
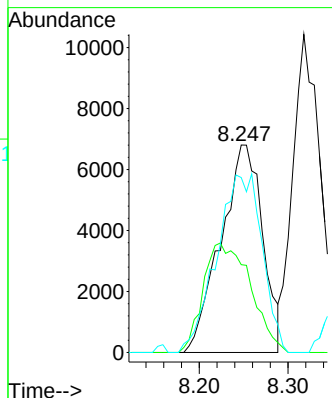
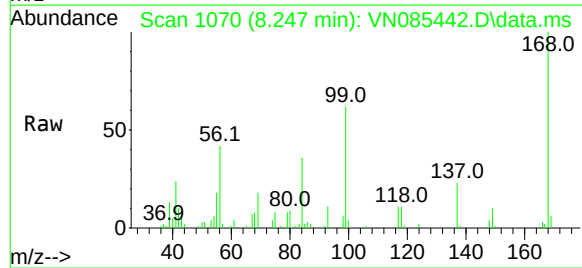
84 84.3 66.4 99.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#32

1,1,1-Trichloroethane

Concen: 5.372 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

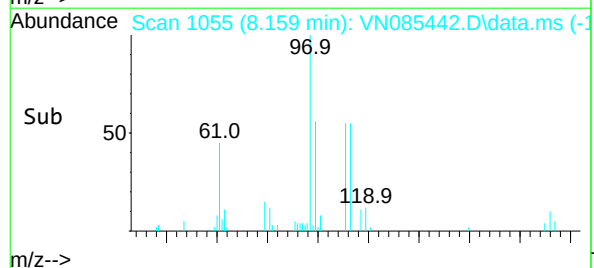
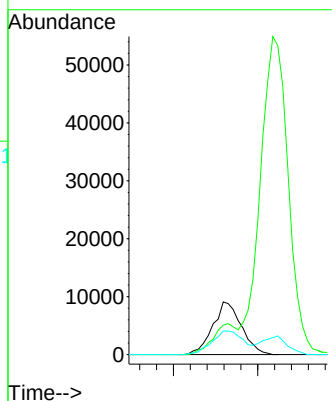
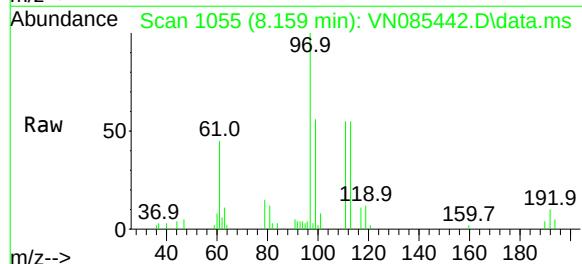
Tgt Ion: 97 Resp: 21416

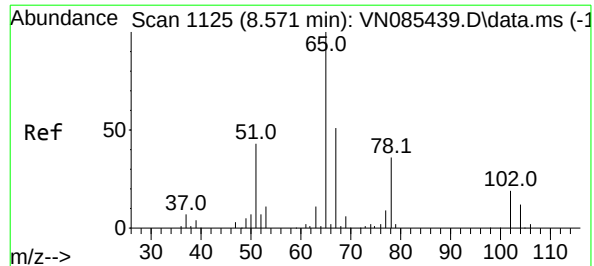
Ion Ratio Lower Upper

97 100

99 50.5 49.8 74.6

61 50.1 41.4 62.2





#33

1,2-Dichloroethane-d4

Concen: 5.660 ug/l

RT: 8.577 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 17046

Ion Ratio Lower Upper

65 100

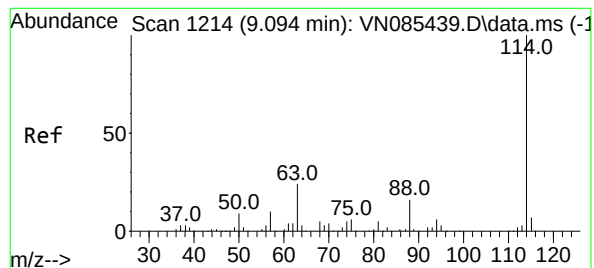
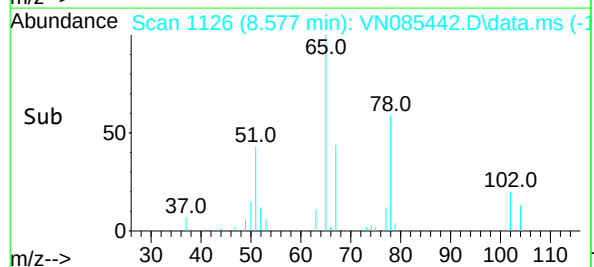
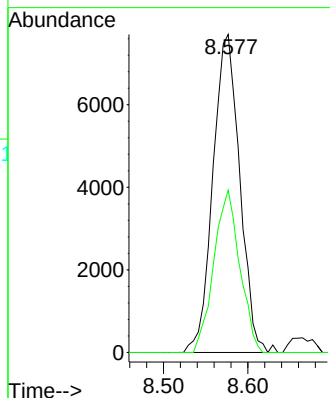
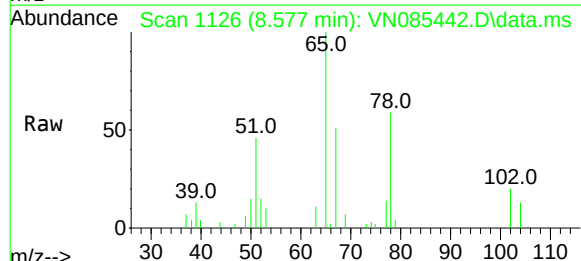
67 49.2 0.0 101.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

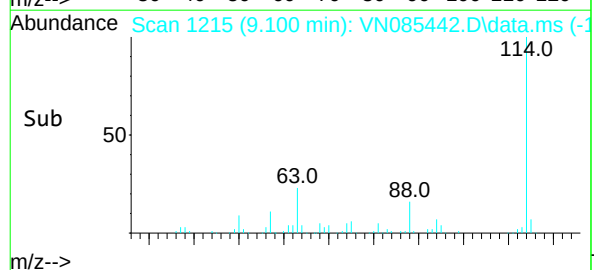
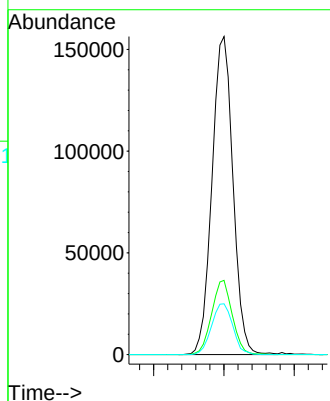
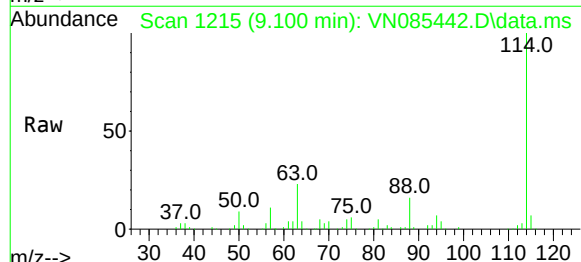
Tgt Ion:114 Resp: 324413

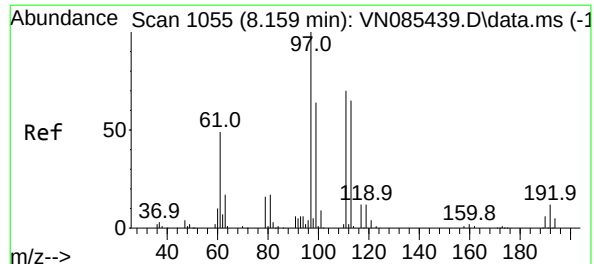
Ion Ratio Lower Upper

114 100

63 23.3 0.0 47.6

88 16.0 0.0 32.6





#35

Dibromofluoromethane

Concen: 5.377 ug/l

RT: 8.165 min Scan# 1055

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:113 Resp: 12102

Ion Ratio Lower Upper

113 100

111 107.4 82.7 124.1

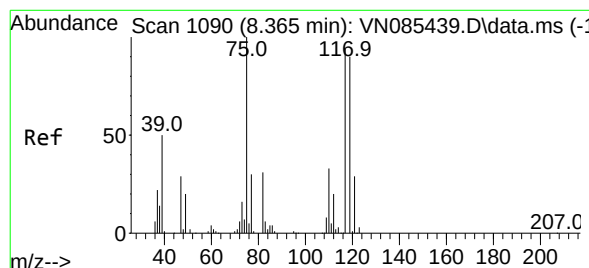
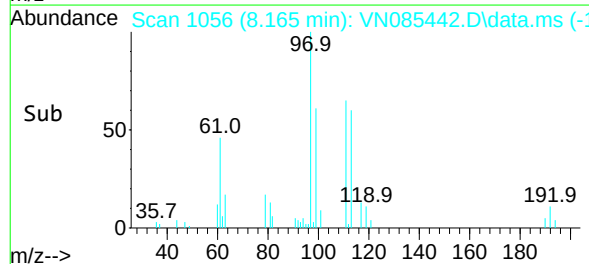
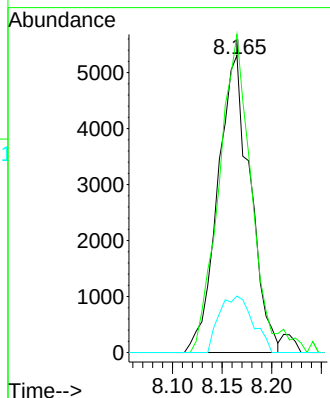
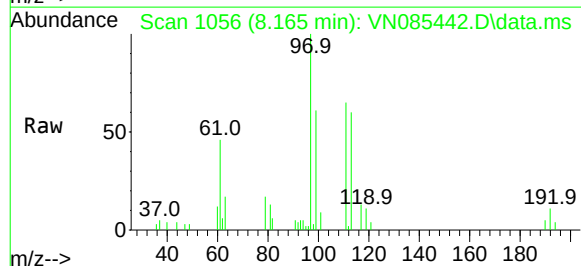
192 19.7 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#36

1,1-Dichloropropene

Concen: 5.029 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

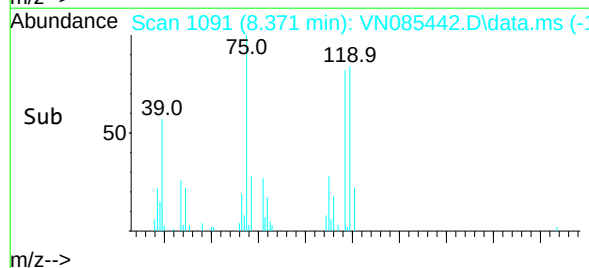
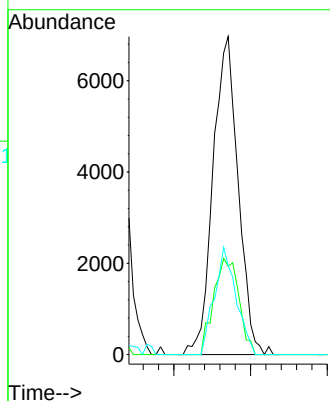
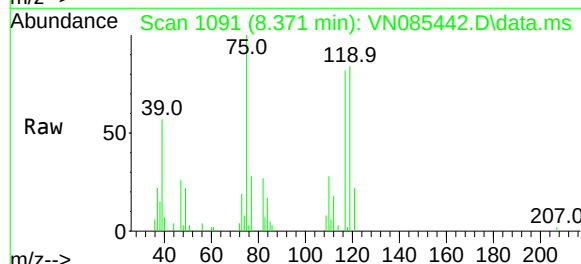
Tgt Ion: 75 Resp: 15886

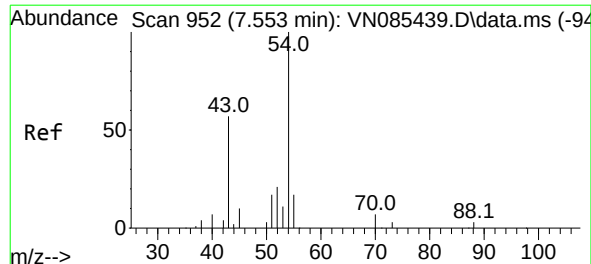
Ion Ratio Lower Upper

75 100

110 30.3 16.5 49.5

77 29.2 24.4 36.6





#37

Ethyl Acetate

Concen: 5.294 ug/l m

RT: 7.553 min Scan# 952

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 16879

Ion Ratio Lower Upper

43 100

61 12.3 10.9 16.3

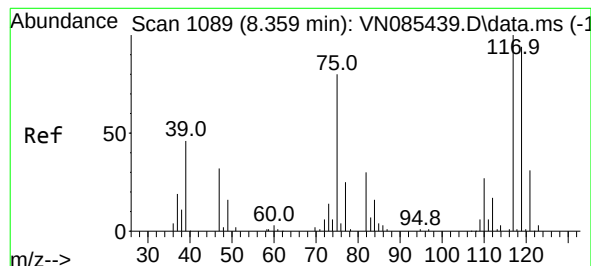
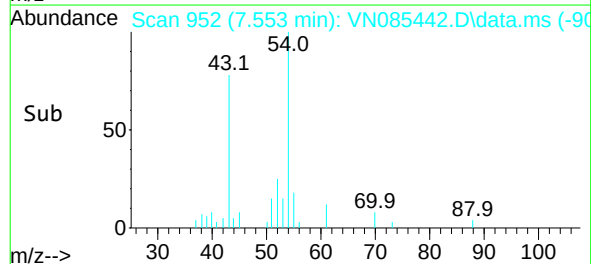
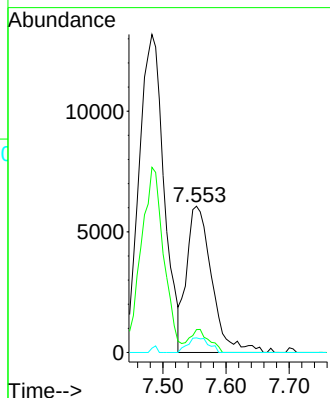
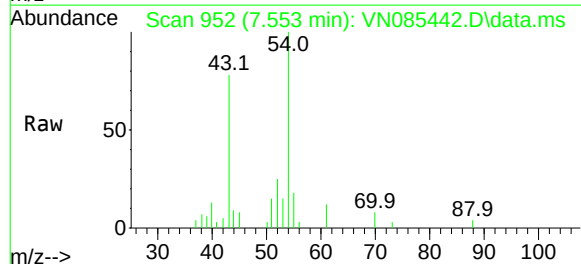
70 8.4 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#38

Carbon Tetrachloride

Concen: 5.065 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

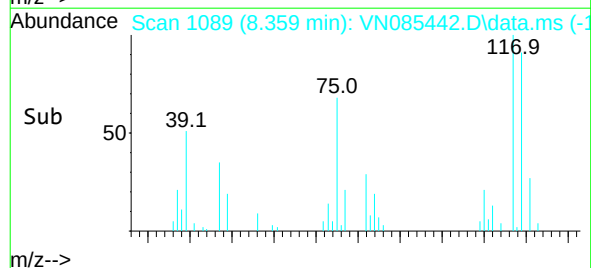
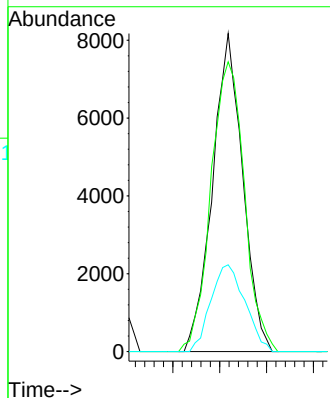
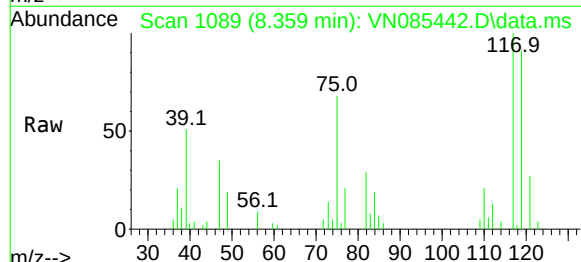
Tgt Ion:117 Resp: 18317

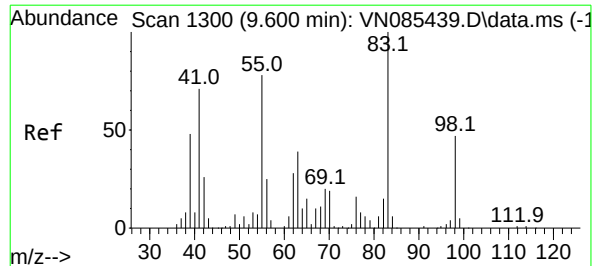
Ion Ratio Lower Upper

117 100

119 91.1 75.4 113.2

121 27.3 24.6 37.0





#39

Methylcyclohexane

Concen: 4.776 ug/l

RT: 9.600 min Scan# 13

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

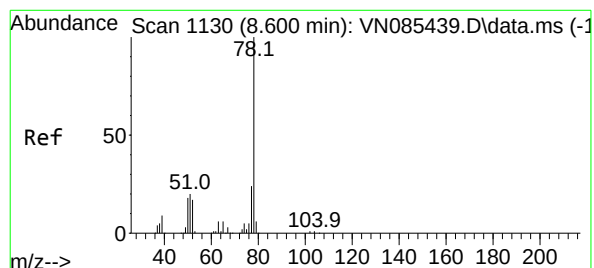
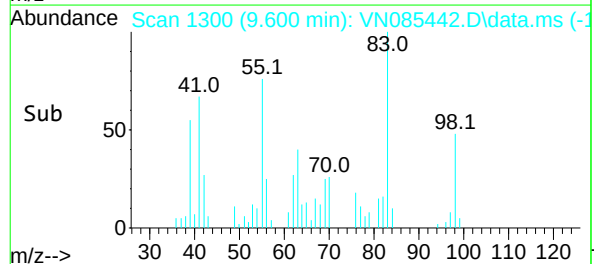
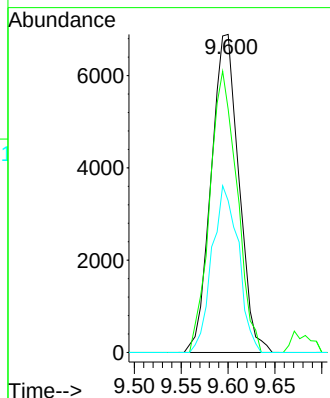
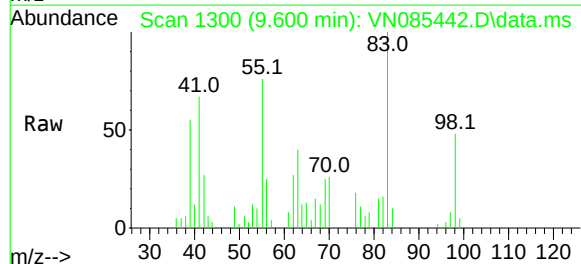
VSTDIC005

Tgt Ion:	83	Resp:	14175
Ion Ratio	Lower	Upper	
83	100		
55	76.5	62.6	94.0
98	47.7	37.7	56.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#40

Benzene

Concen: 5.040 ug/l

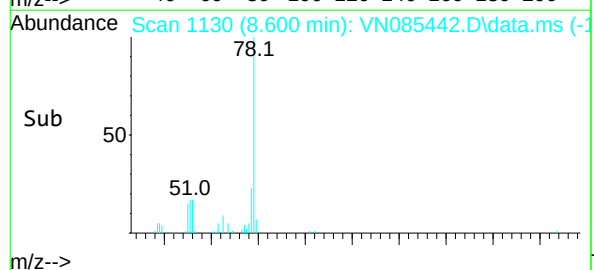
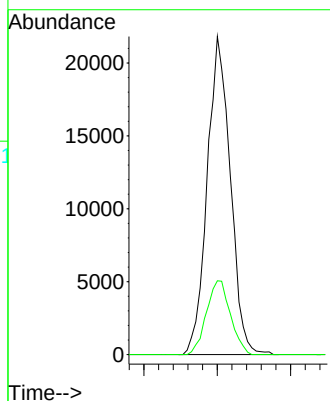
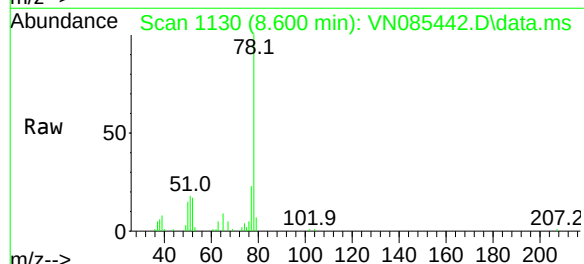
RT: 8.600 min Scan# 1130

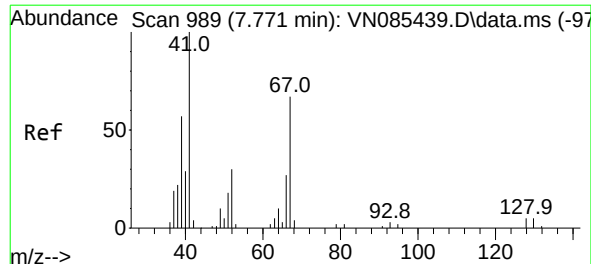
Delta R.T. -0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion:	78	Resp:	47833
Ion Ratio	Lower	Upper	
78	100		
77	23.2	19.0	28.6





#41

Methacrylonitrile

Concen: 4.449 ug/l

RT: 7.777 min Scan# 99

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 41 Resp: 7380

Ion Ratio Lower Upper

41 100

39 60.5 46.0 69.0

67 74.6 57.4 86.2

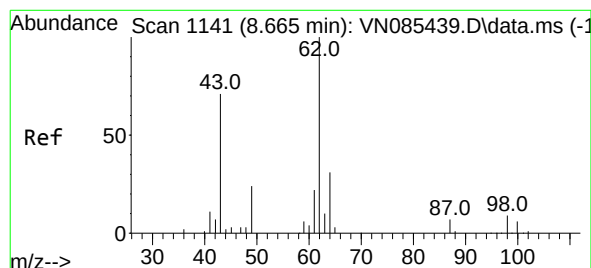
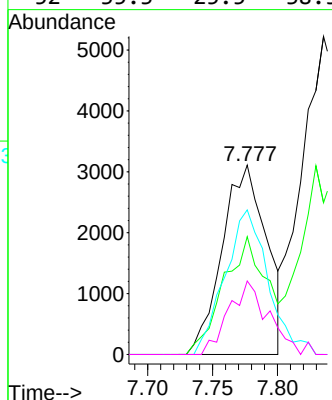
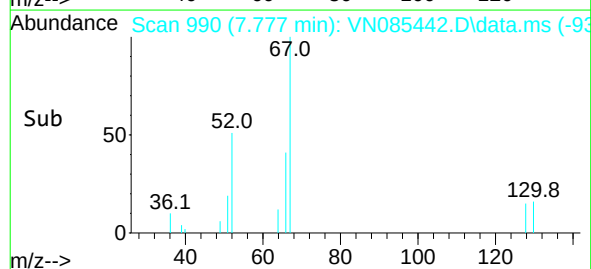
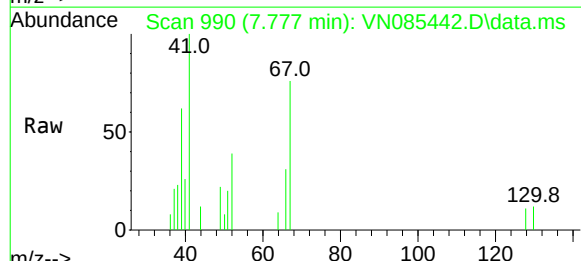
52 35.3 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#42

1,2-Dichloroethane

Concen: 5.211 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN085442.D

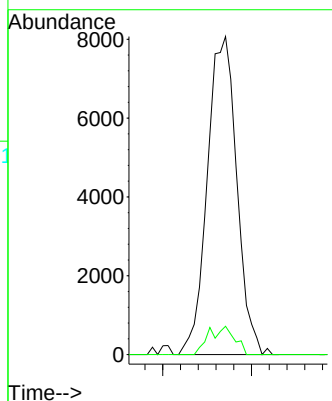
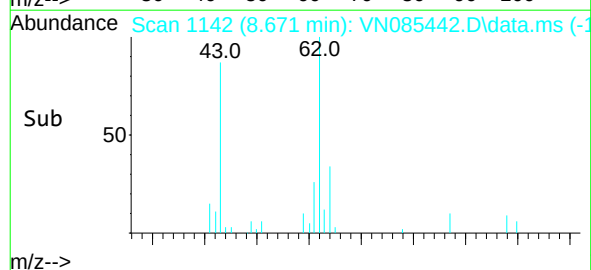
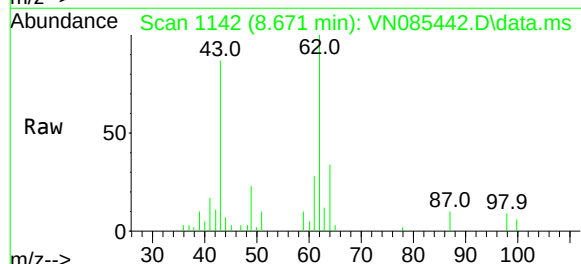
Acq: 14 Jan 2025 16:31

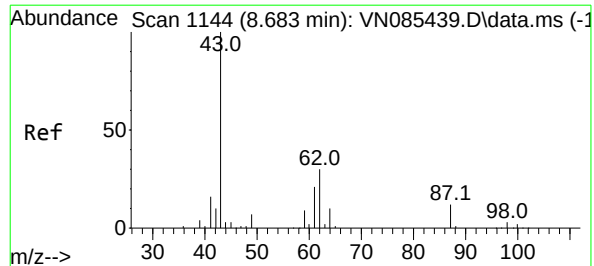
Tgt Ion: 62 Resp: 18628

Ion Ratio Lower Upper

62 100

98 7.8 0.0 17.0





#43

Isopropyl Acetate

Concen: 4.853 ug/l

RT: 8.688 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

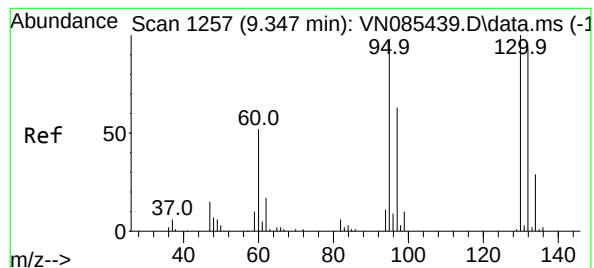
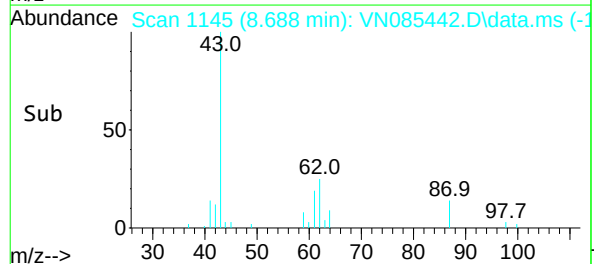
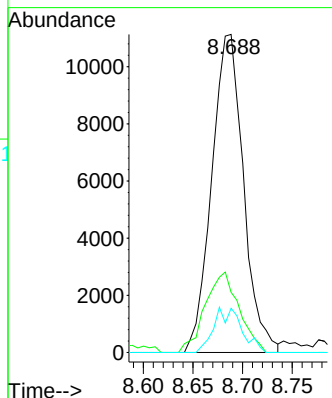
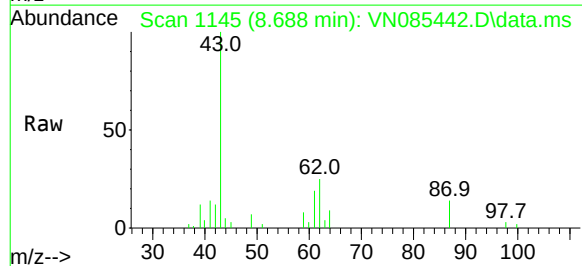
Tgt Ion:	43	Resp:	24792
Ion	Ratio	Lower	Upper
43	100		
61	27.0	20.7	31.1
87	12.3	9.8	14.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#44

Trichloroethene

Concen: 5.039 ug/l

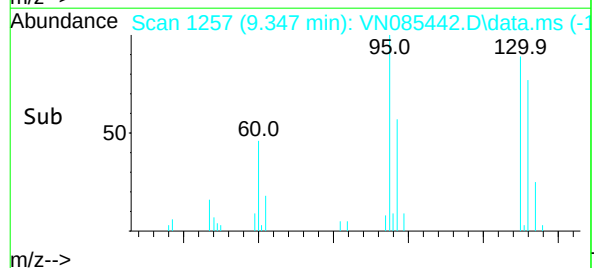
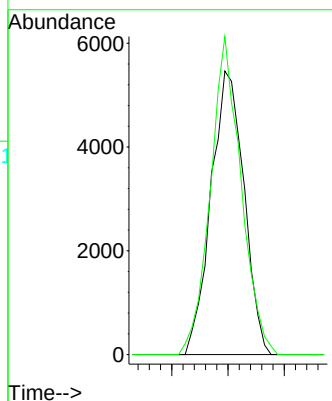
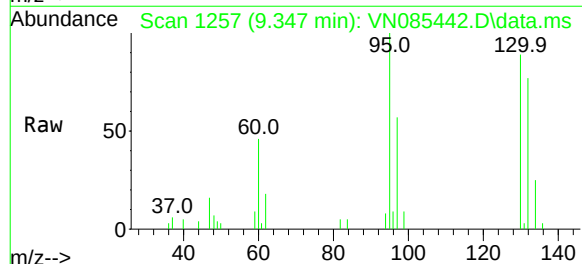
RT: 9.347 min Scan# 1257

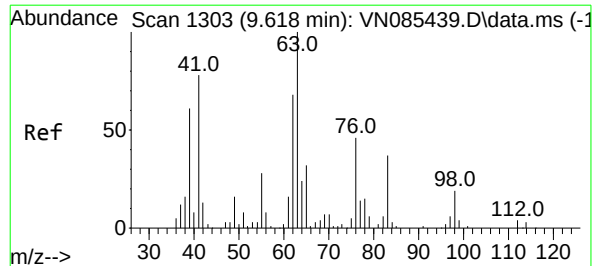
Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion:	130	Resp:	11133
Ion	Ratio	Lower	Upper
130	100		
95	112.2	0.0	195.8





#45

1,2-Dichloropropane

Concen: 5.194 ug/l

RT: 9.618 min Scan# 13

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 63 Resp: 12591

Ion Ratio Lower Upper

63 100

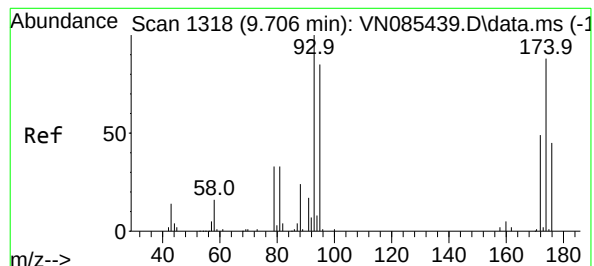
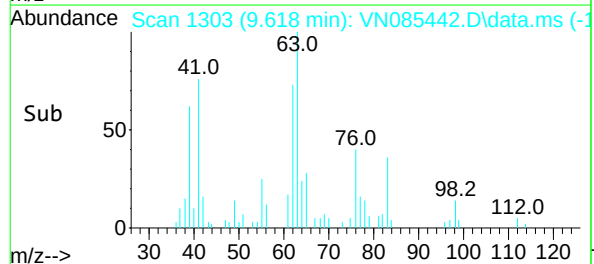
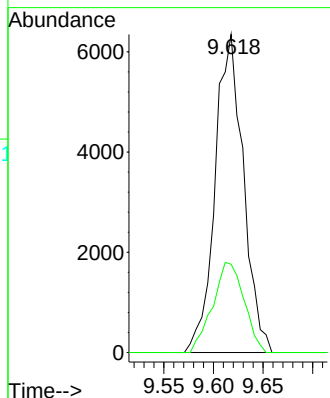
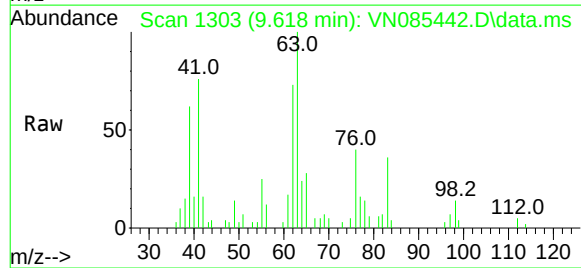
65 27.8 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#46

Dibromomethane

Concen: 4.705 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. -0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

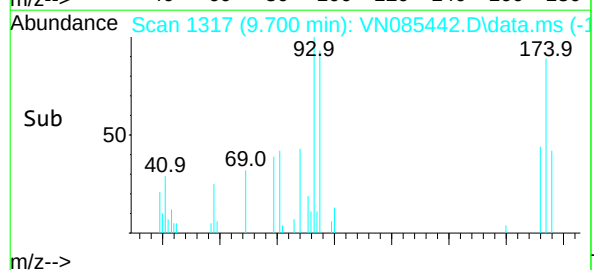
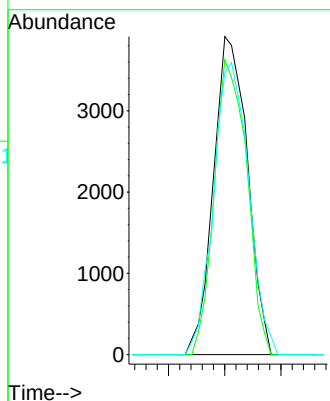
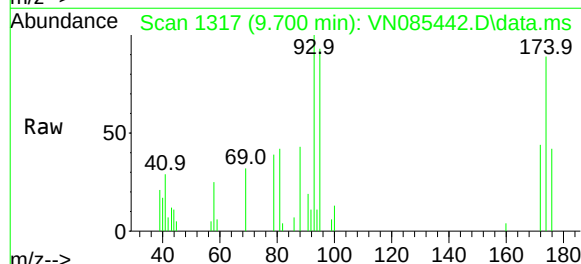
Tgt Ion: 93 Resp: 8230

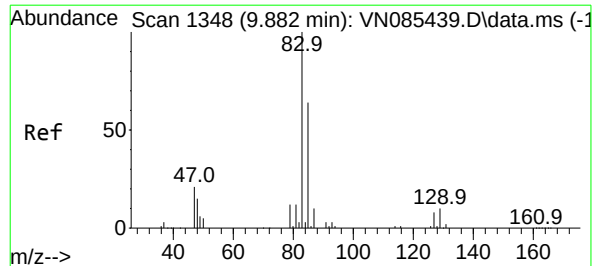
Ion Ratio Lower Upper

93 100

95 88.7 64.7 97.1

174 95.0 69.0 103.4





#47

Bromodichloromethane

Concen: 5.179 ug/l

RT: 9.888 min Scan# 1348

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 83 Resp: 18456

Ion Ratio Lower Upper

83 100

85 67.0 51.2 76.8

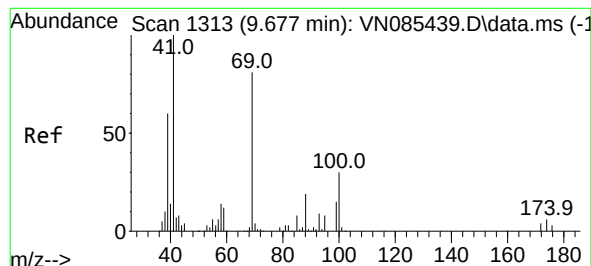
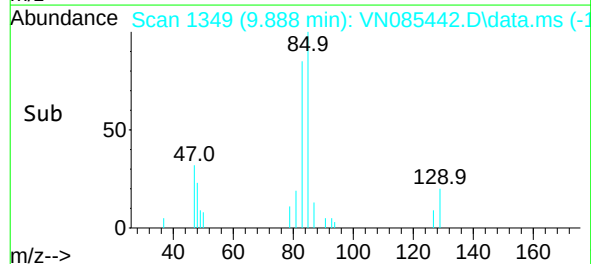
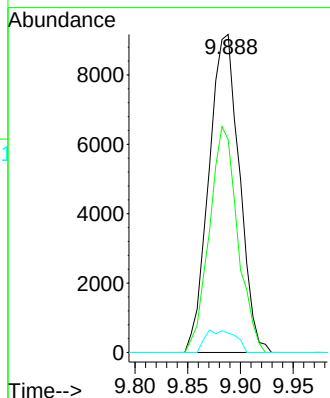
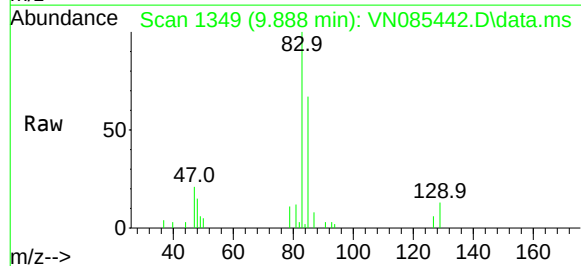
127 6.1 6.5 9.7#

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#48

Methyl methacrylate

Concen: 4.599 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

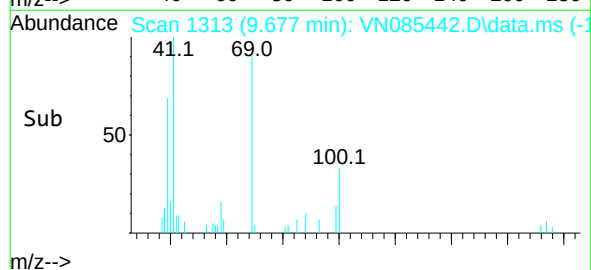
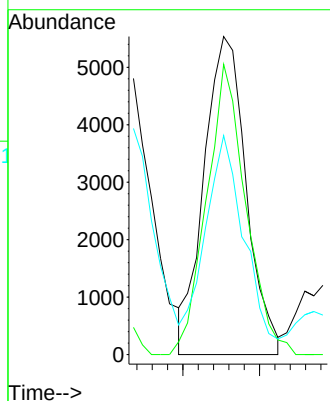
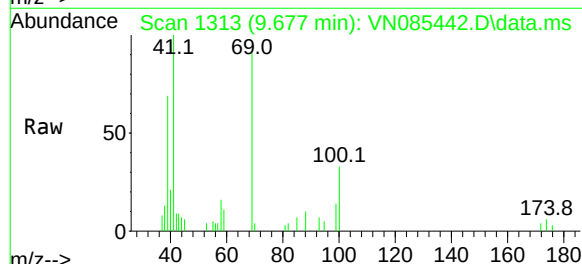
Tgt Ion: 41 Resp: 10574

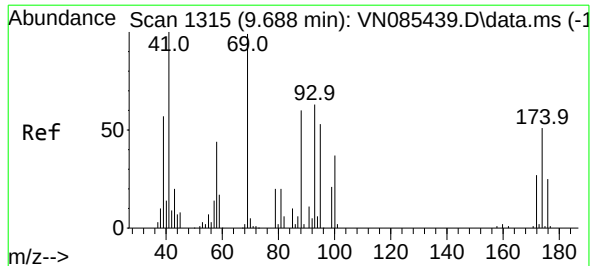
Ion Ratio Lower Upper

41 100

69 84.9 64.7 97.1

39 65.3 49.0 73.6





#49

1,4-Dioxane

Concen: 93.477 ug/l

RT: 9.694 min Scan# 1315

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 88 Resp: 3619

Ion Ratio Lower Upper

88 100

43 32.3 26.6 39.8

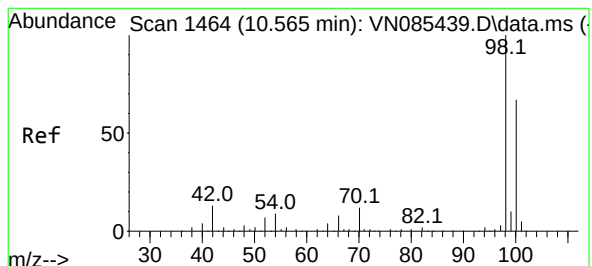
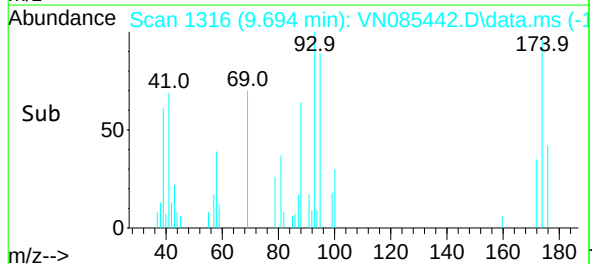
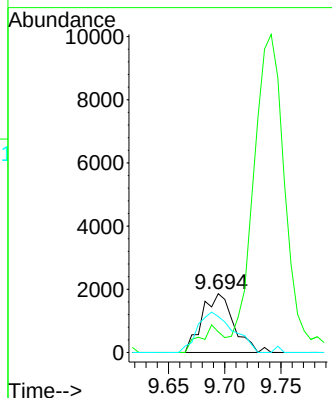
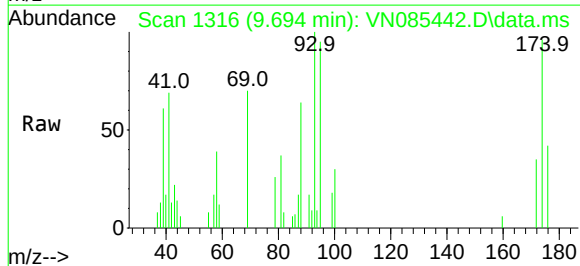
58 77.9 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#50

Toluene-d8

Concen: 5.168 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085442.D

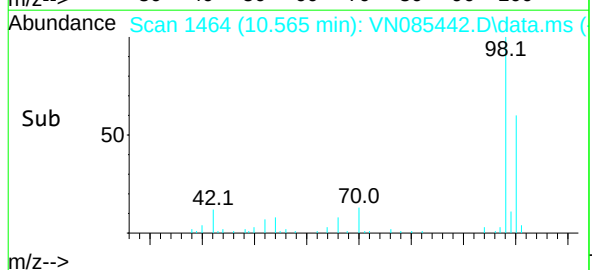
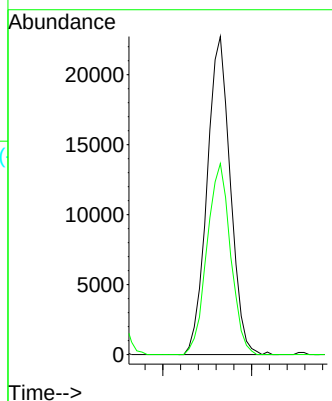
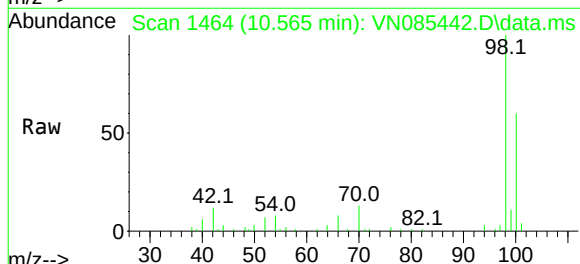
Acq: 14 Jan 2025 16:31

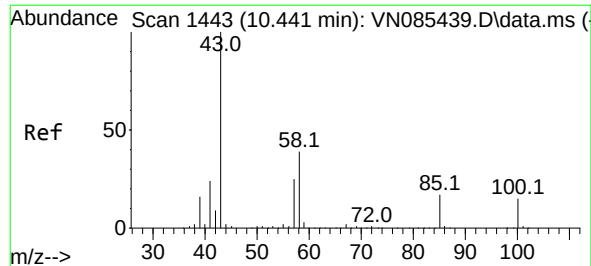
Tgt Ion: 98 Resp: 41328

Ion Ratio Lower Upper

98 100

100 60.9 52.2 78.4





#51

4-Methyl-2-Pentanone

Concen: 24.250 ug/l

RT: 10.441 min Scan# 14

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 71889

Ion Ratio Lower Upper

43 100

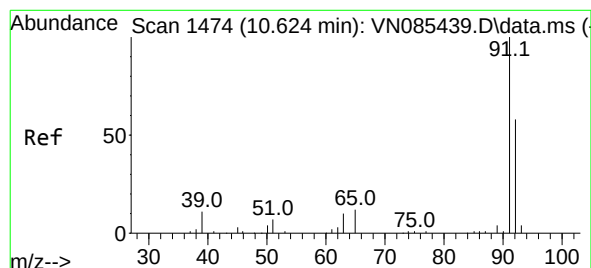
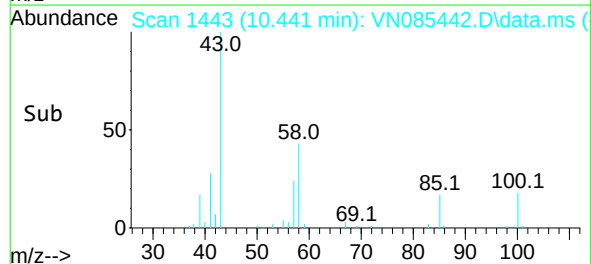
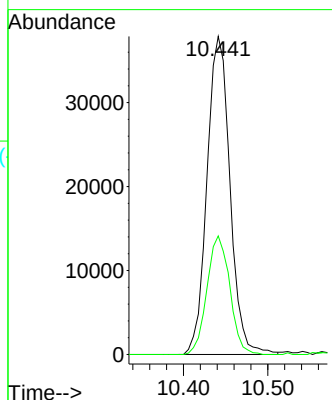
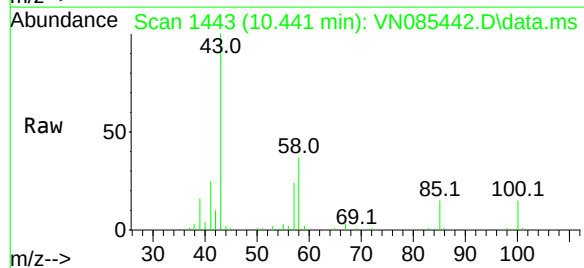
58 36.9 30.5 45.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#52

Toluene

Concen: 4.928 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. 0.005 min

Lab File: VN085442.D

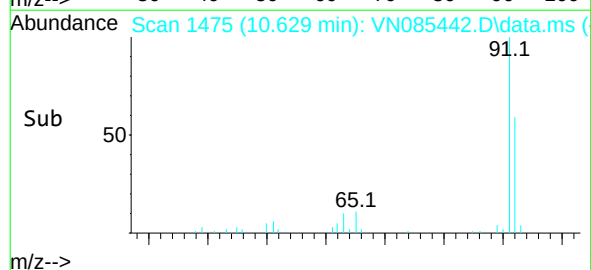
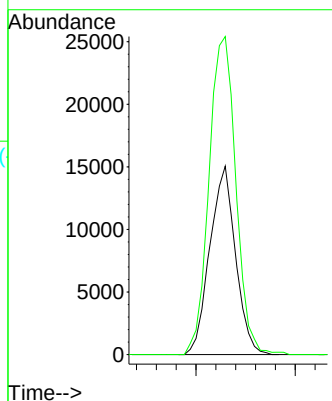
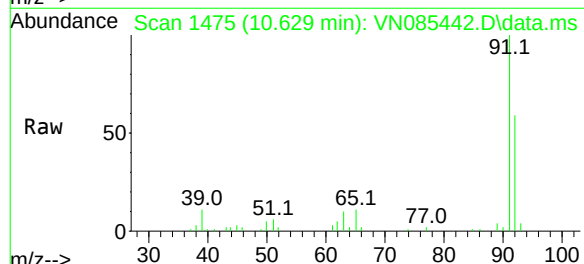
Acq: 14 Jan 2025 16:31

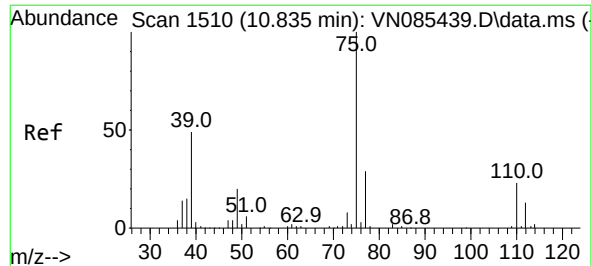
Tgt Ion: 92 Resp: 27098

Ion Ratio Lower Upper

92 100

91 176.4 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 5.077 ug/l

RT: 10.829 min Scan# 1510

Delta R.T. -0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 17099

Ion Ratio Lower Upper

75 100

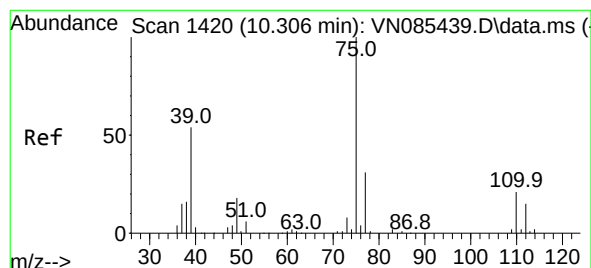
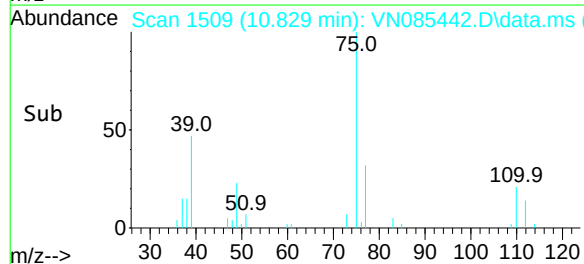
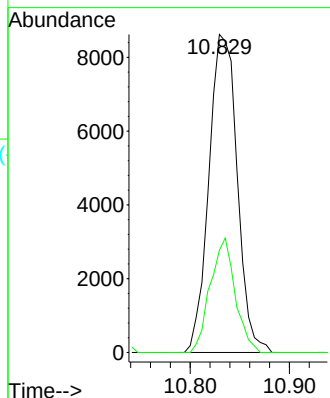
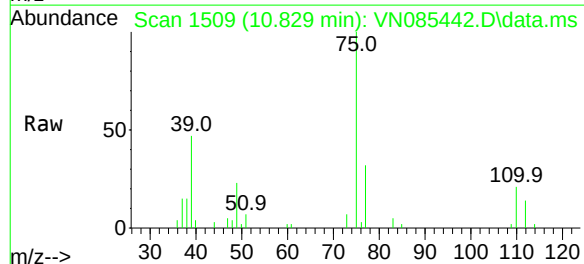
77 32.2 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#54

cis-1,3-Dichloropropene

Concen: 4.848 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. -0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

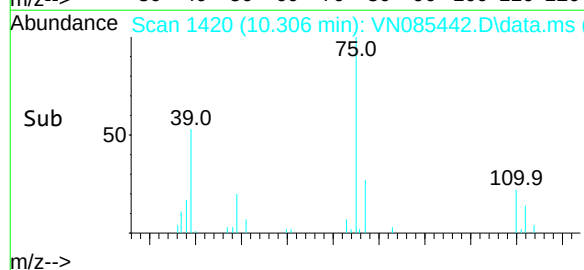
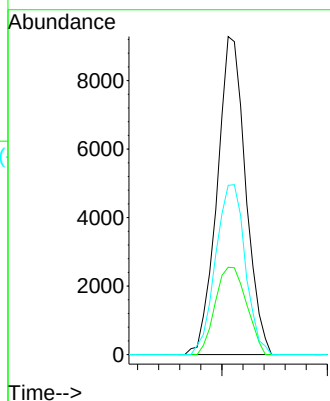
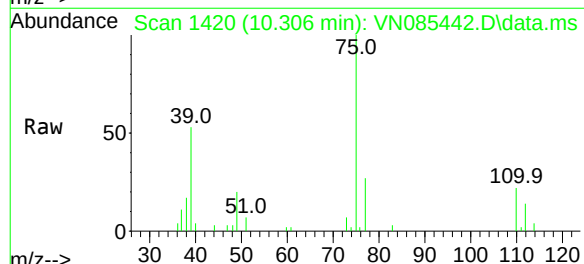
Tgt Ion: 75 Resp: 17440

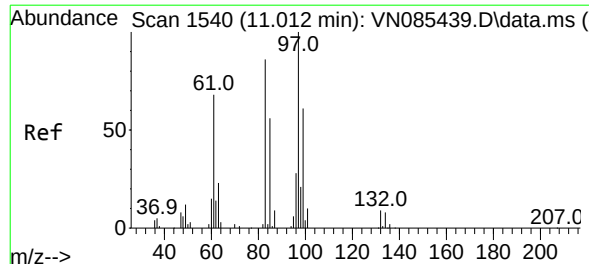
Ion Ratio Lower Upper

75 100

77 27.5 25.0 37.4

39 53.2 43.1 64.7





#55

1,1,2-Trichloroethane

Concen: 5.197 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 97 Resp: 11311

Ion Ratio Lower Upper

97 100

83 82.7 69.0 103.6

85 51.3 44.6 66.8

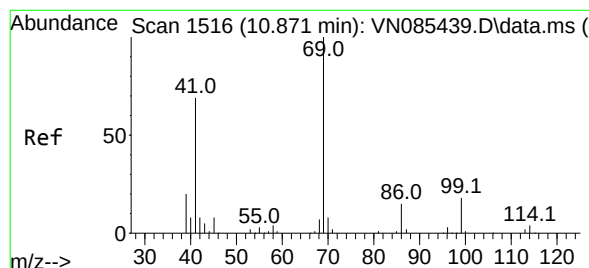
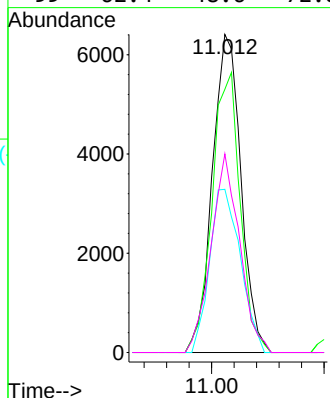
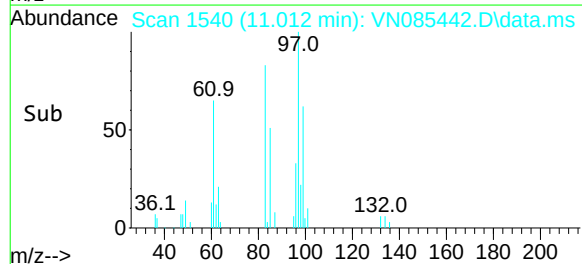
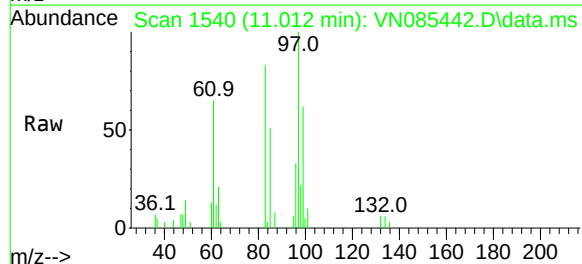
99 62.4 48.6 72.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#56

Ethyl methacrylate

Concen: 5.627 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

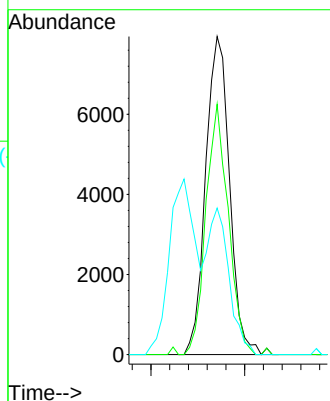
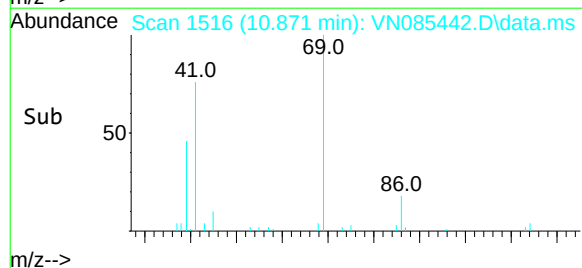
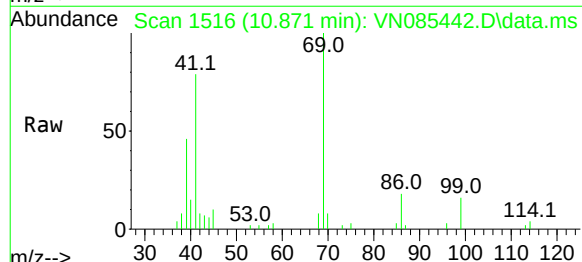
Tgt Ion: 69 Resp: 14094

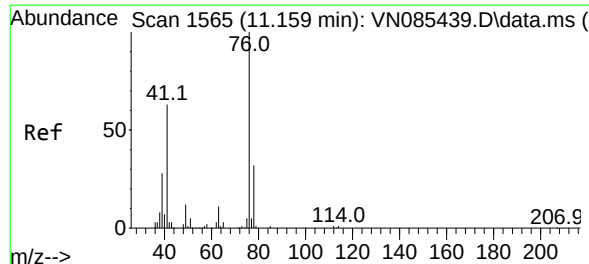
Ion Ratio Lower Upper

69 100

41 73.8 54.6 82.0

39 42.6 32.4 48.6





#57

1,3-Dichloropropane

Concen: 5.006 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 18945

Ion Ratio Lower Upper

76 100

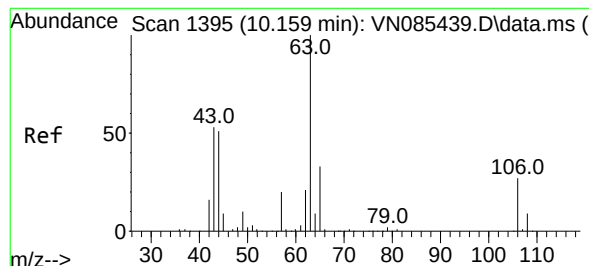
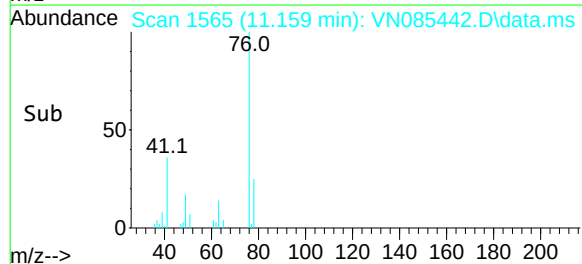
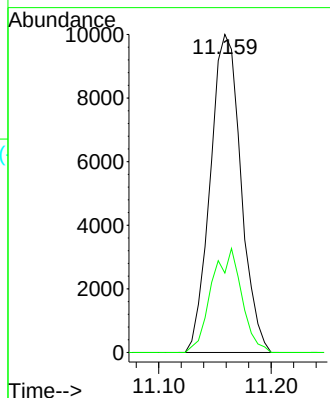
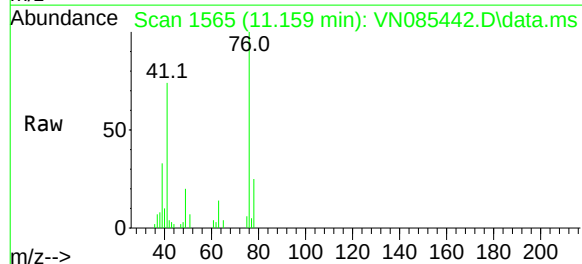
78 32.2 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#58

2-Chloroethyl Vinyl ether

Concen: 24.047 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN085442.D

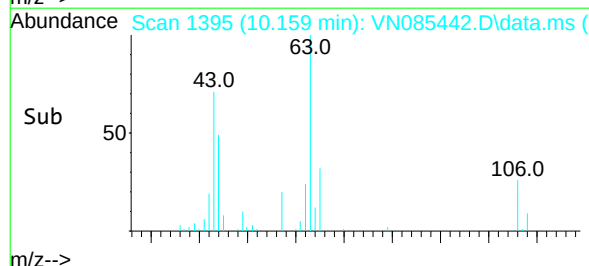
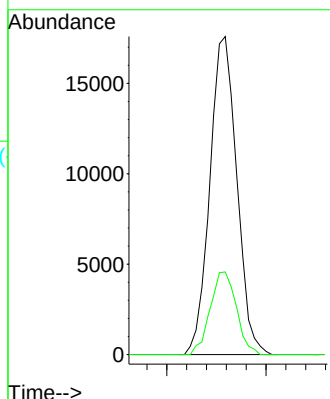
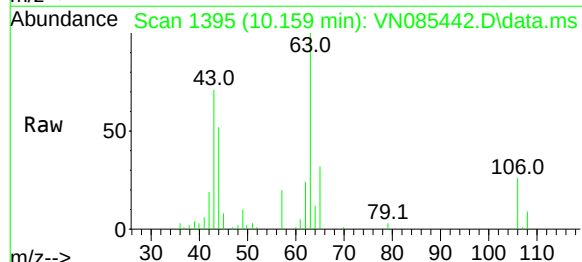
Acq: 14 Jan 2025 16:31

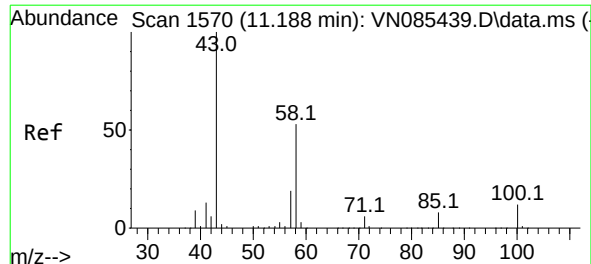
Tgt Ion: 63 Resp: 33210

Ion Ratio Lower Upper

63 100

106 25.2 21.6 32.4





#59

2-Hexanone

Concen: 23.501 ug/l

RT: 11.194 min Scan# 1570

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 49021

Ion Ratio Lower Upper

43 100

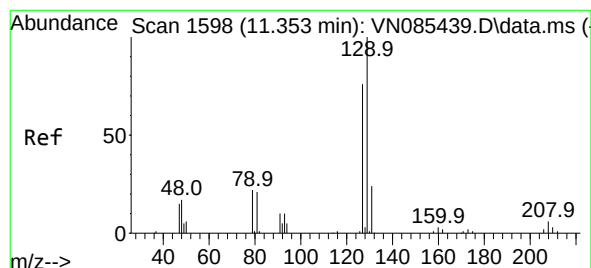
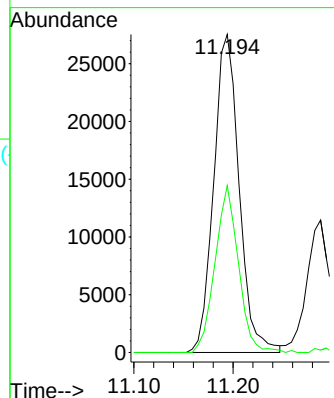
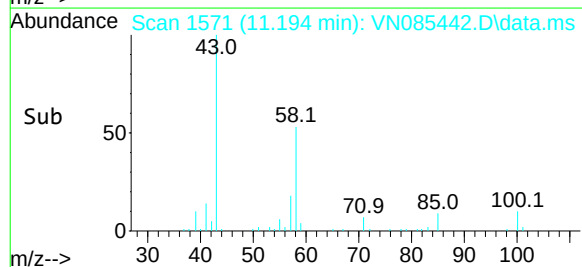
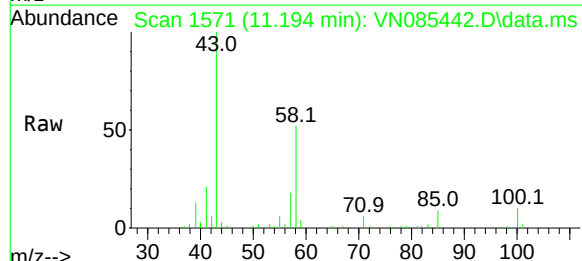
58 48.3 26.2 78.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#60

Dibromochloromethane

Concen: 5.190 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. 0.000 min

Lab File: VN085442.D

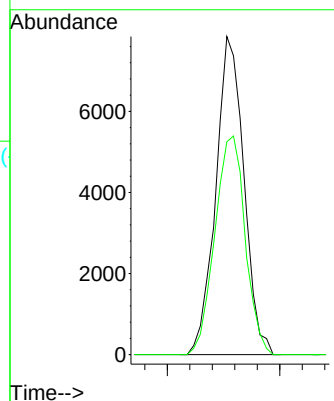
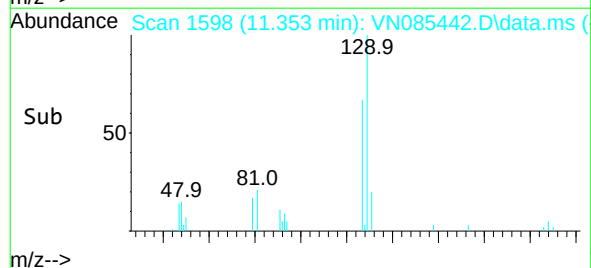
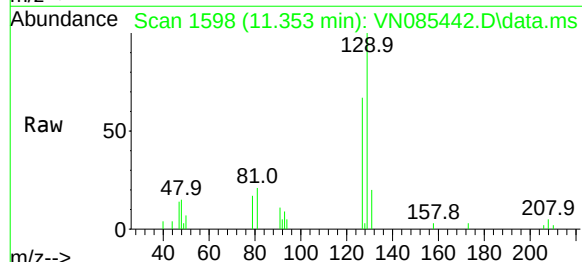
Acq: 14 Jan 2025 16:31

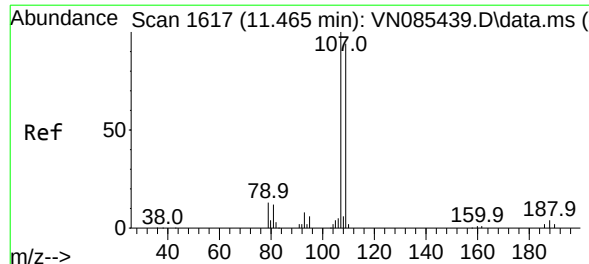
Tgt Ion:129 Resp: 13635

Ion Ratio Lower Upper

129 100

127 73.9 38.6 115.8





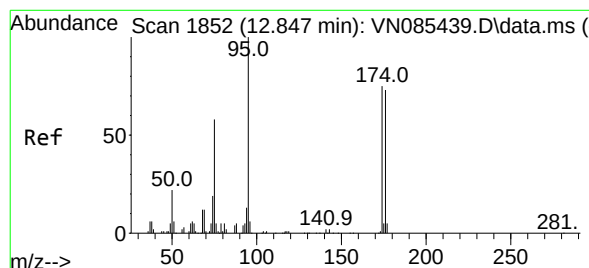
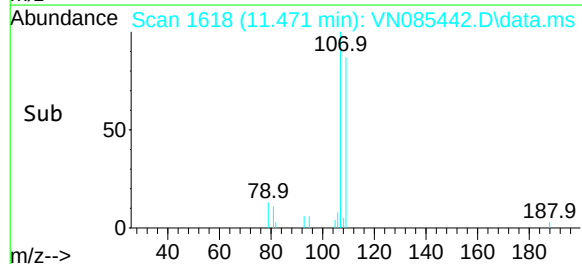
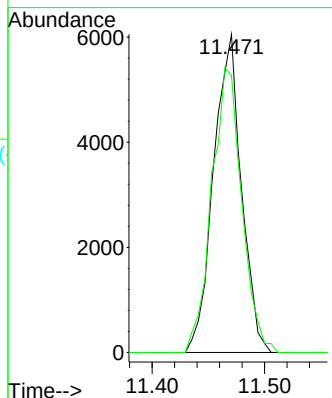
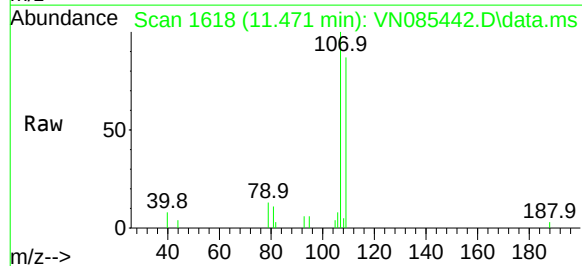
#61
1,2-Dibromoethane
Concen: 4.810 ug/l
RT: 11.471 min Scan# 1617
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 107 Resp: 10419
Ion Ratio Lower Upper
107 100
109 96.8 75.9 113.9

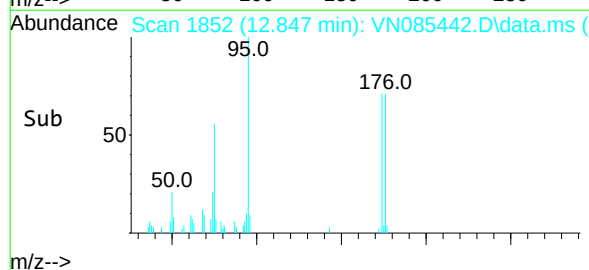
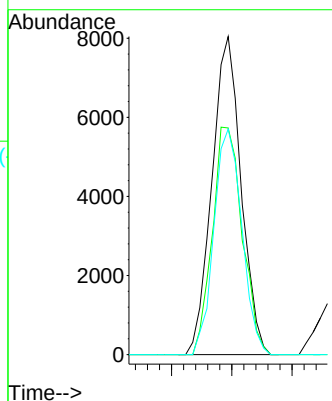
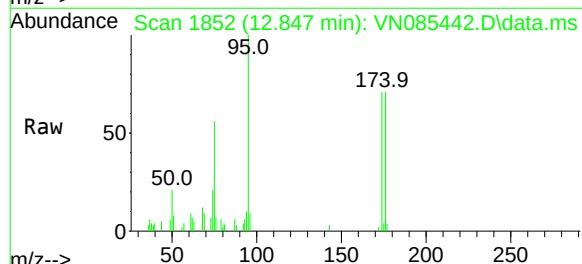
Manual Integrations
APPROVED

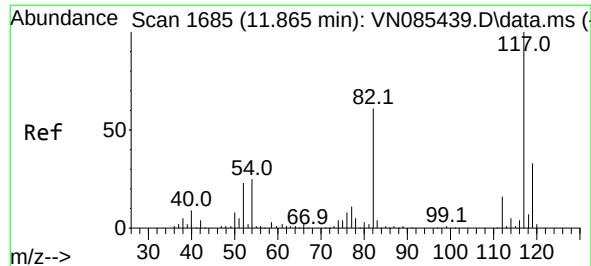
Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



#62
4-Bromofluorobenzene
Concen: 4.943 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 95 Resp: 13520
Ion Ratio Lower Upper
95 100
174 73.2 0.0 145.0
176 68.0 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:117 Resp: 282203

Ion Ratio Lower Upper

117 100

82 58.3 48.6 72.8

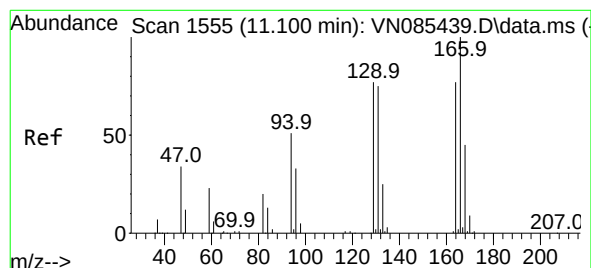
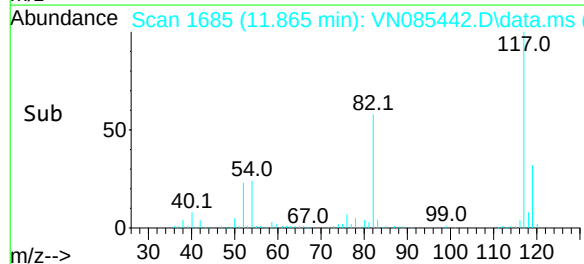
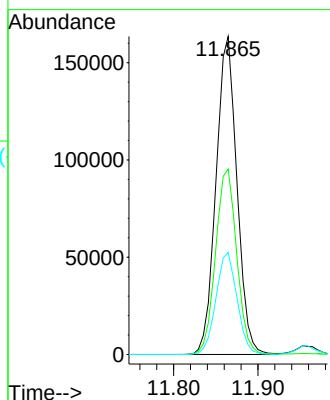
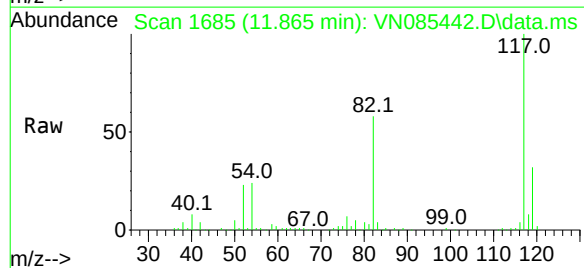
119 32.1 26.6 39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#64

Tetrachloroethene

Concen: 5.071 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion:164 Resp: 9756

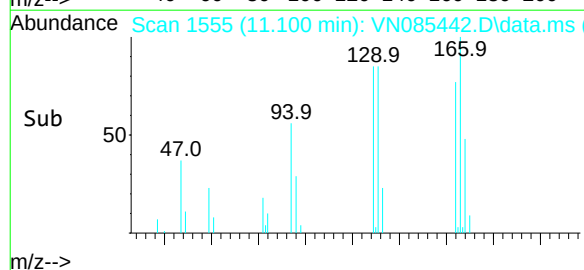
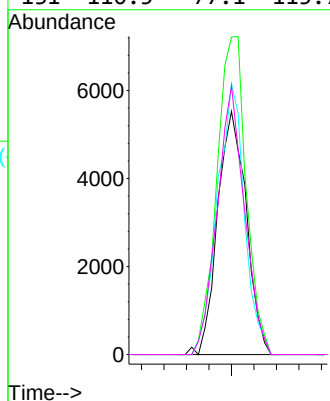
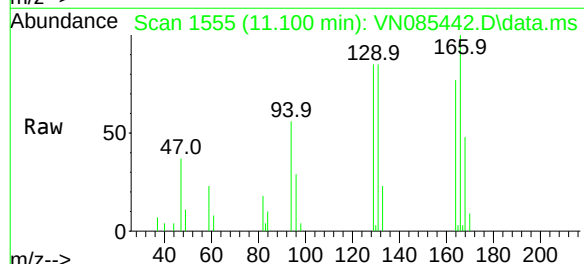
Ion Ratio Lower Upper

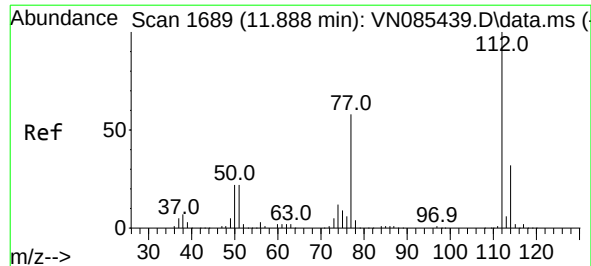
164 100

166 130.6 103.4 155.2

129 111.5 79.2 118.8

131 110.5 77.1 115.7





#65

Chlorobenzene

Concen: 5.065 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:112 Resp: 31312

Ion Ratio Lower Upper

112 100

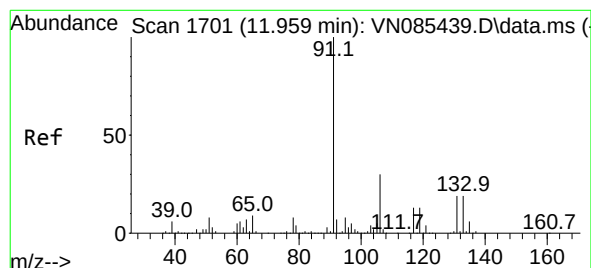
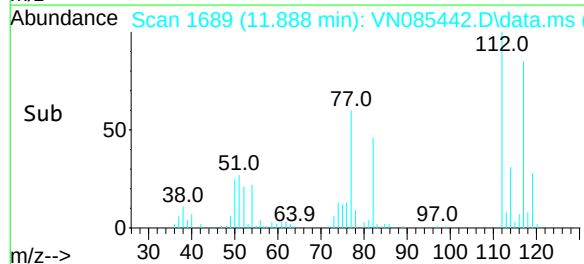
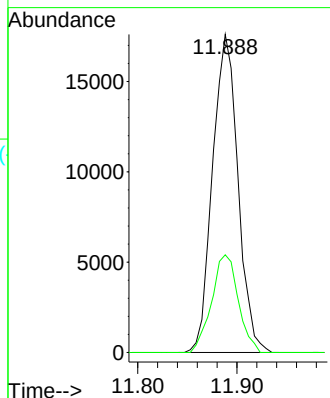
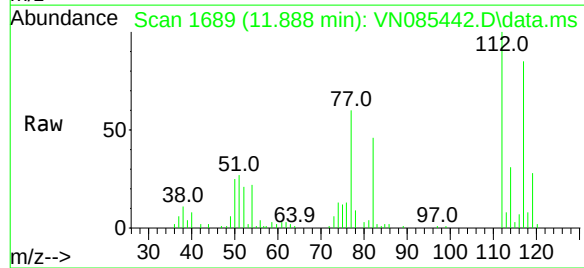
114 30.7 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 5.121 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

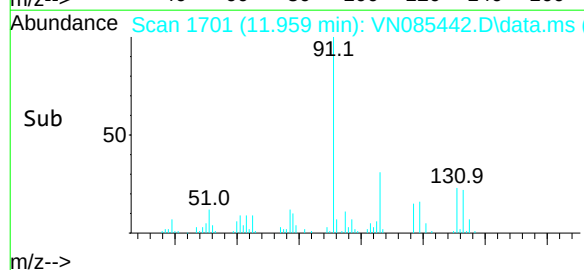
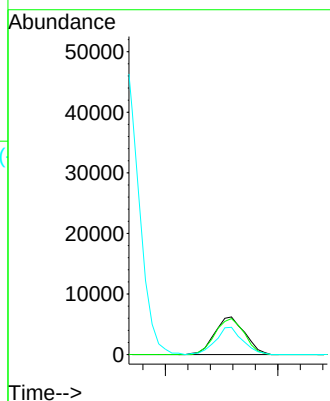
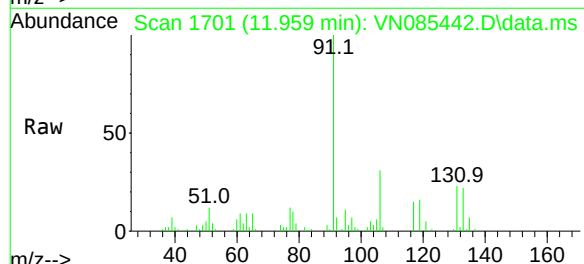
Tgt Ion:131 Resp: 11620

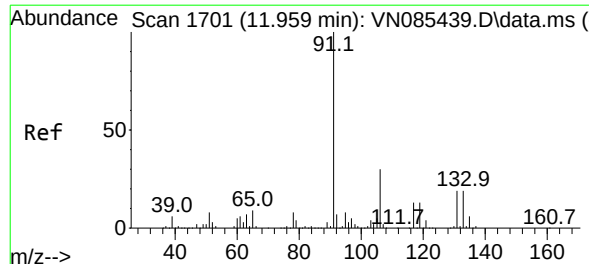
Ion Ratio Lower Upper

131 100

133 92.7 47.4 142.3

119 65.0 33.1 99.5





#67

Ethyl Benzene

Concen: 4.789 ug/l

RT: 11.965 min Scan# 17

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 91 Resp: 48216

Ion Ratio Lower Upper

91 100

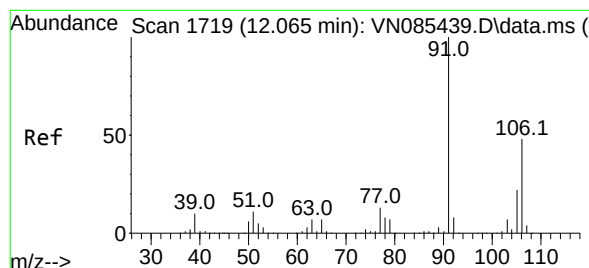
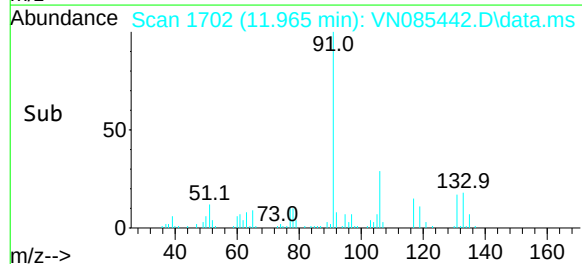
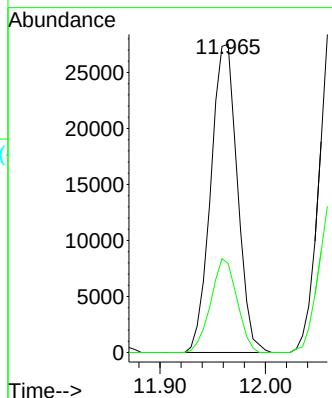
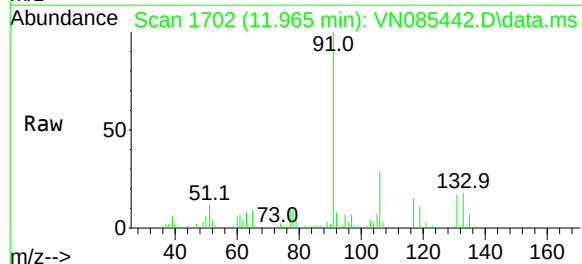
106 28.9 23.8 35.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#68

m/p-Xylenes

Concen: 9.344 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. 0.000 min

Lab File: VN085442.D

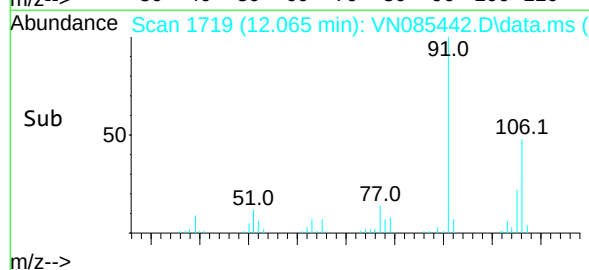
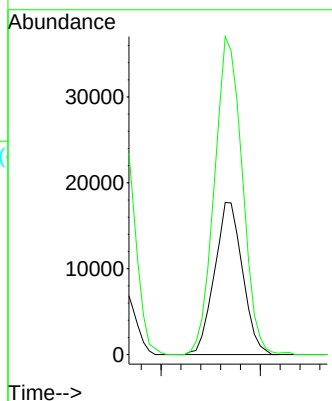
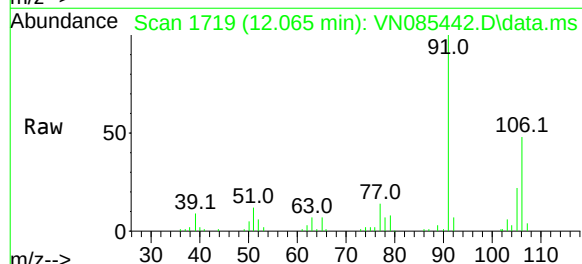
Acq: 14 Jan 2025 16:31

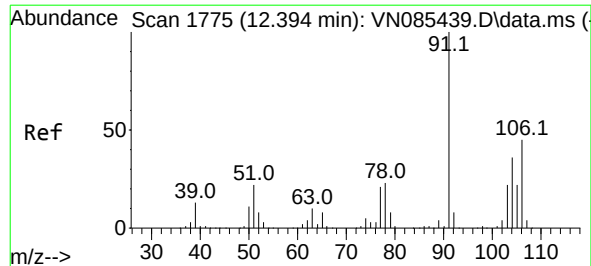
Tgt Ion:106 Resp: 34771

Ion Ratio Lower Upper

106 100

91 207.9 167.7 251.5





#69

o-Xylene

Concen: 4.617 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:106 Resp: 16419

Ion Ratio Lower Upper

106 100

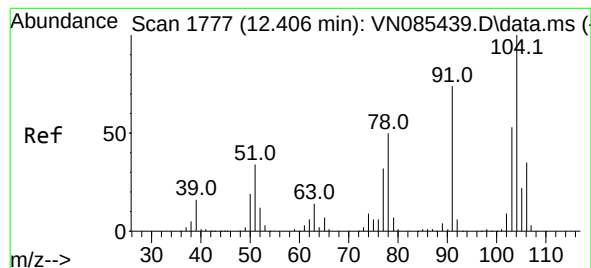
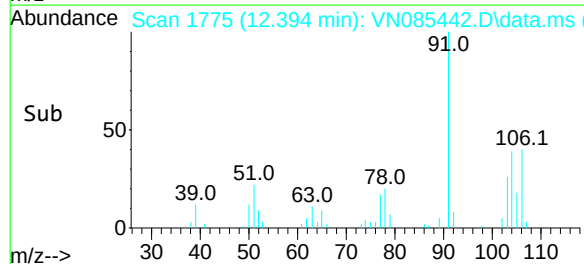
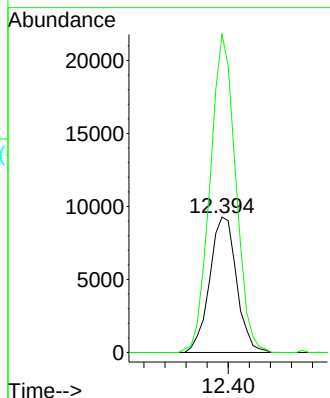
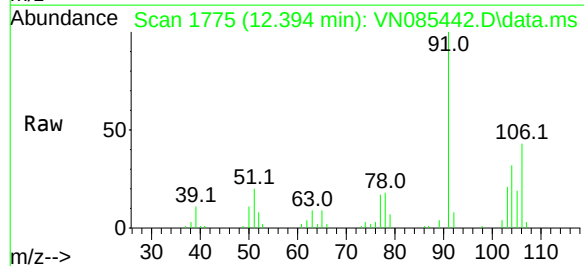
91 224.0 110.4 331.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#70

Styrene

Concen: 4.454 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

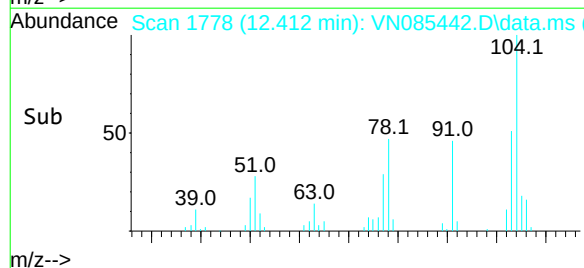
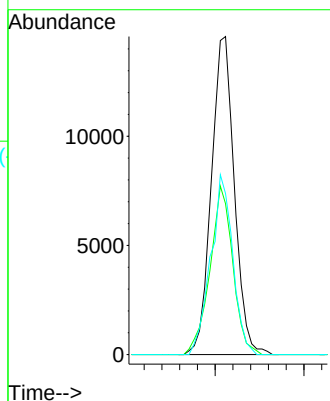
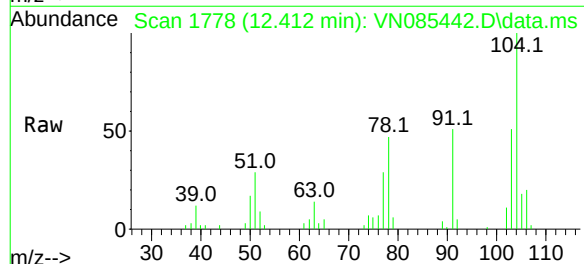
Tgt Ion:104 Resp: 26218

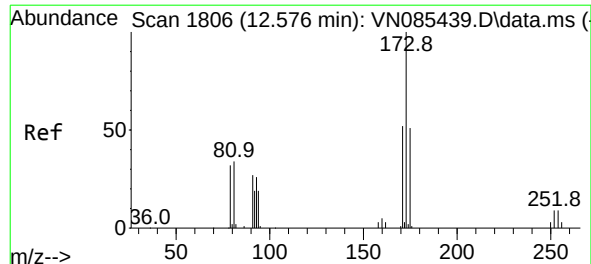
Ion Ratio Lower Upper

104 100

78 52.6 42.5 63.7

103 54.2 43.8 65.8





#71

Bromoform

Concen: 4.938 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

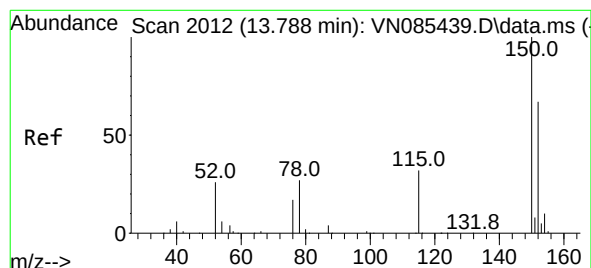
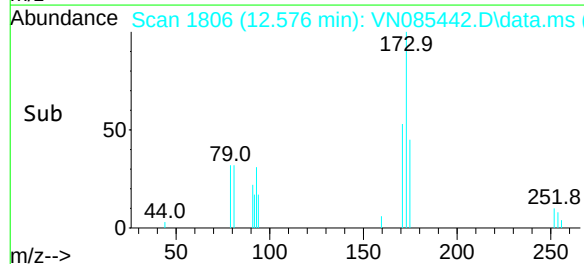
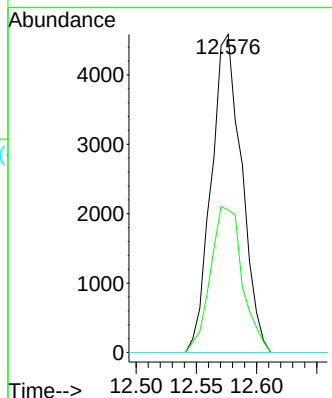
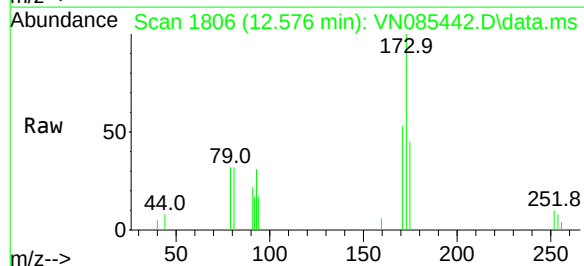
ClientSampleId :

VSTDIC005

Tgt Ion:	173	Resp:	8017
Ion Ratio	Lower	Upper	
173	100		
175	48.3	24.4	73.2
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

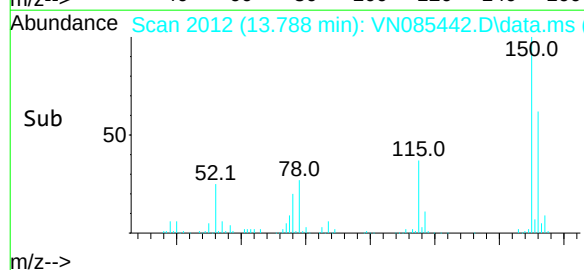
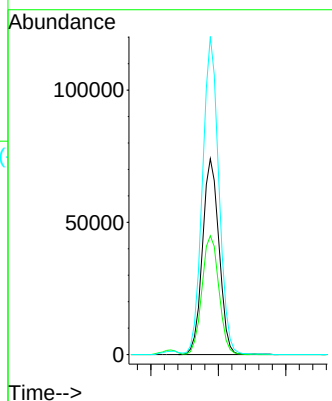
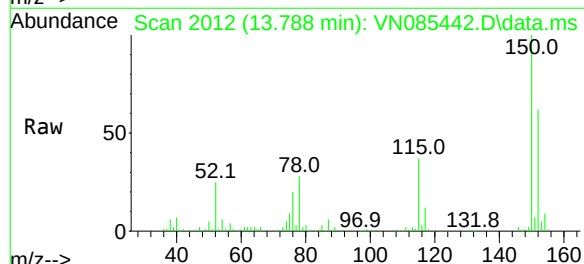
RT: 13.788 min Scan# 2012

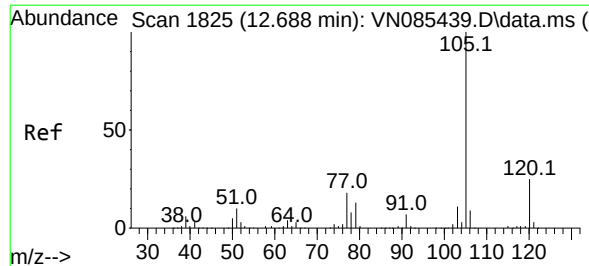
Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion:	152	Resp:	126086
Ion Ratio	Lower	Upper	
152	100		
115	62.0	31.1	93.3
150	160.7	0.0	343.6





#73

Isopropylbenzene

Concen: 4.678 ug/l

RT: 12.694 min Scan# 1825

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 39811

Ion Ratio Lower Upper

105 100

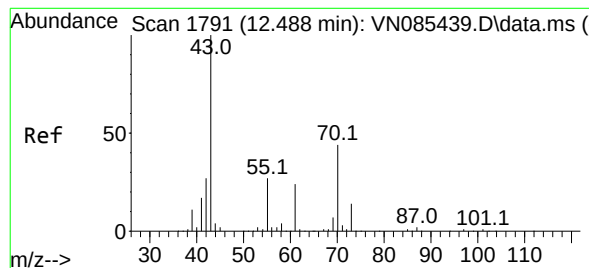
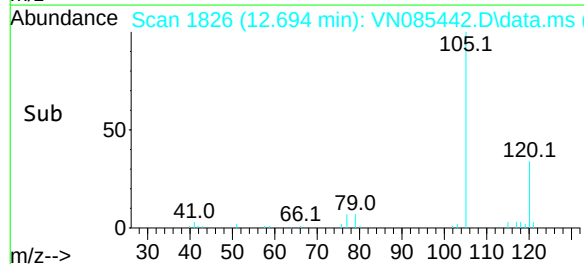
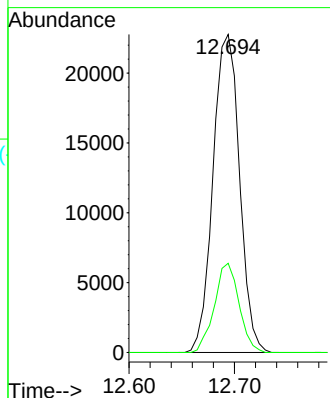
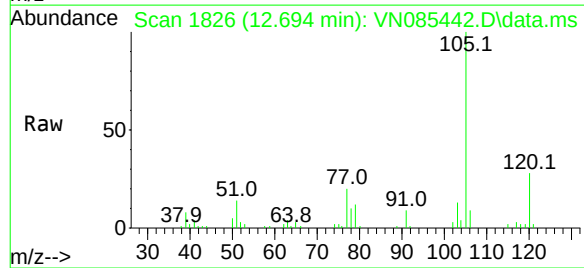
120 26.1 12.8 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#74

N-ethyl acetate

Concen: 4.595 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion: 43 Resp: 17577

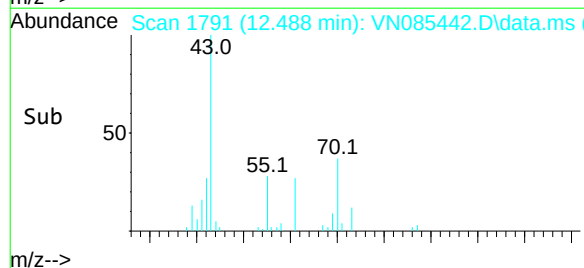
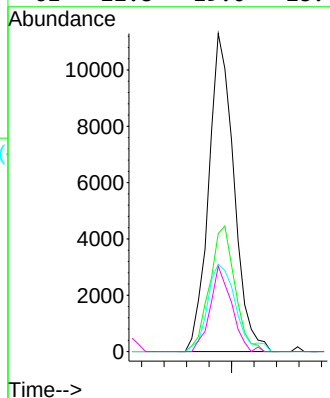
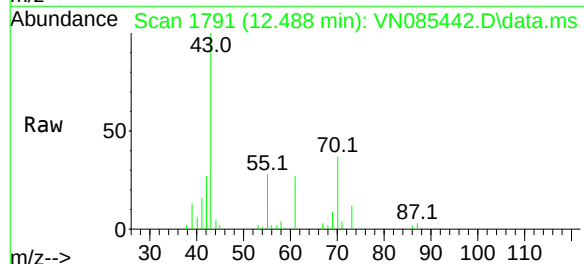
Ion Ratio Lower Upper

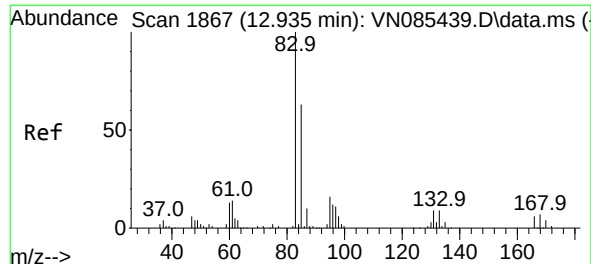
43 100

70 39.5 34.0 51.0

55 30.8 21.4 32.2

61 22.8 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 5.151 ug/l

RT: 12.935 min Scan# 18

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

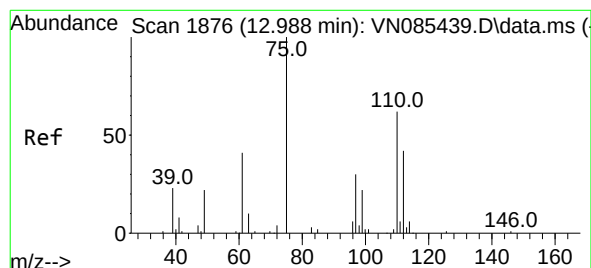
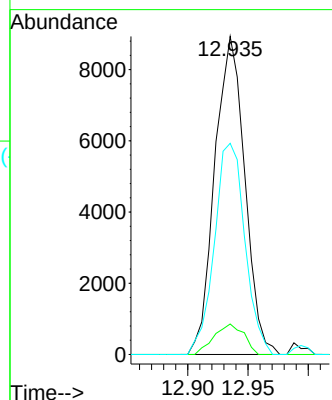
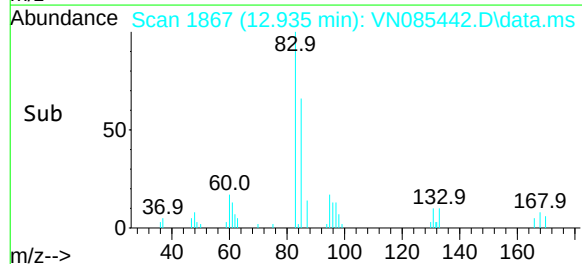
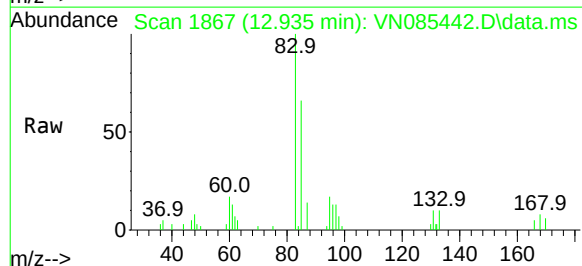
VSTDIC005

Tgt Ion:	83	Resp:	15483
Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.8	14.4
85	67.5	32.2	96.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#76

1,2,3-Trichloropropane

Concen: 4.758 ug/l m

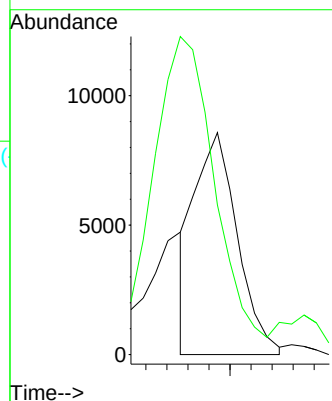
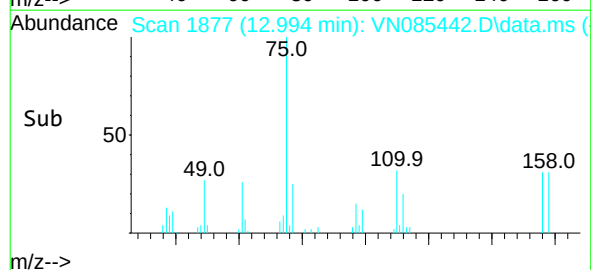
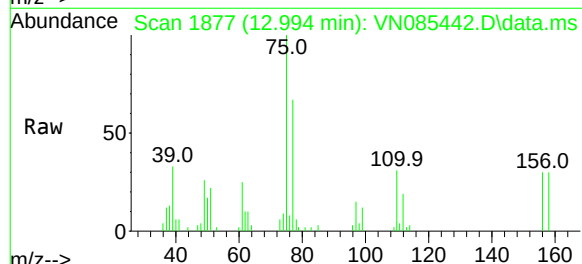
RT: 12.994 min Scan# 1877

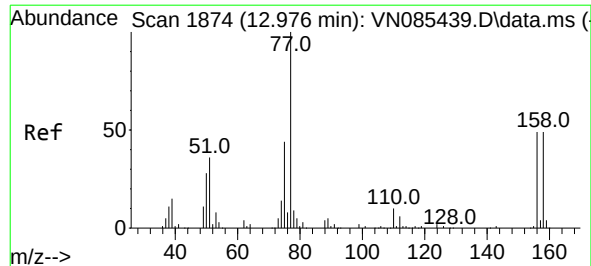
Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion:	75	Resp:	12173
Ion	Ratio	Lower	Upper
75	100		
77	209.1	109.7	329.2





#77

Bromobenzene

Concen: 4.989 ug/l

RT: 12.982 min Scan# 1875

Delta R.T. 0.006 min

Lab File: VN085442.D

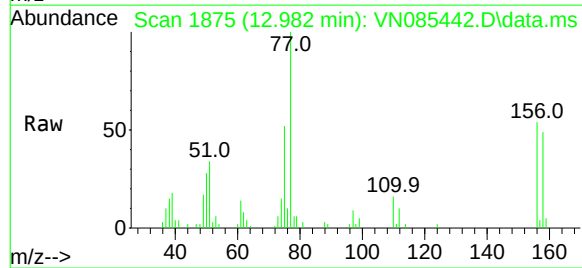
Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005



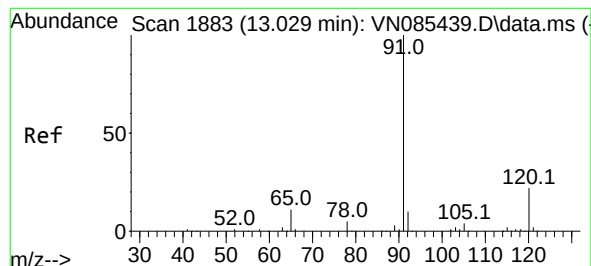
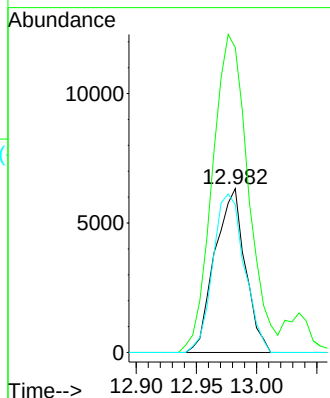
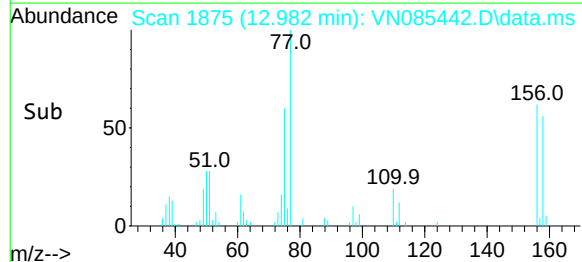
Tgt Ion:	156	Resp:	11091
Ion	Ratio	Lower	Upper
156	100		
77	229.5	114.1	342.4
158	100.8	48.9	146.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#78

n-propylbenzene

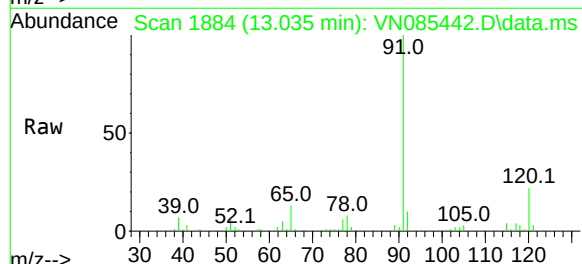
Concen: 4.512 ug/l

RT: 13.035 min Scan# 1884

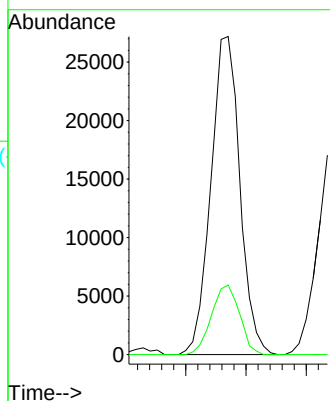
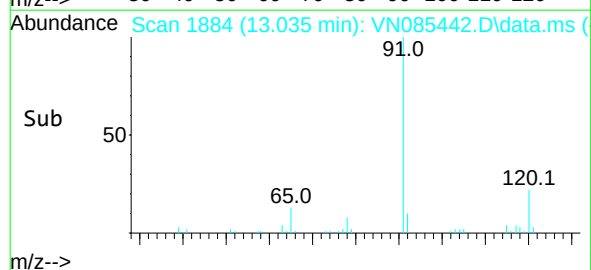
Delta R.T. 0.006 min

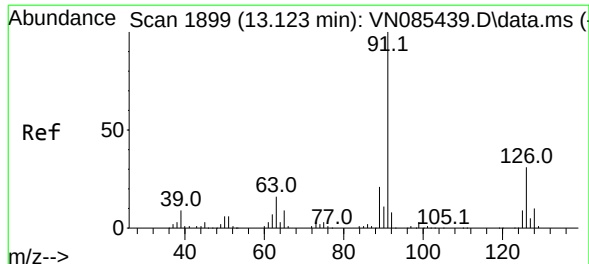
Lab File: VN085442.D

Acq: 14 Jan 2025 16:31



Tgt Ion:	91	Resp:	45450
Ion	Ratio	Lower	Upper
91	100		
120	21.1	10.9	32.6





#79

2-Chlorotoluene

Concen: 4.898 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion: 91 Resp: 31932

Ion Ratio Lower Upper

91 100

126 32.6 15.7 47.1

Instrument :

MSVOA_N

ClientSampleId :

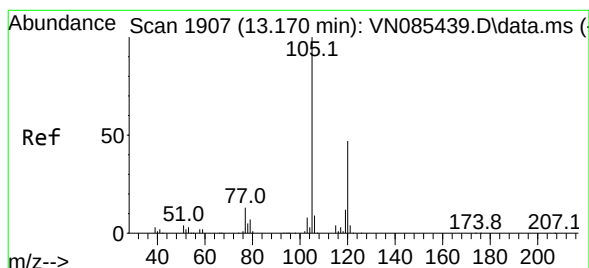
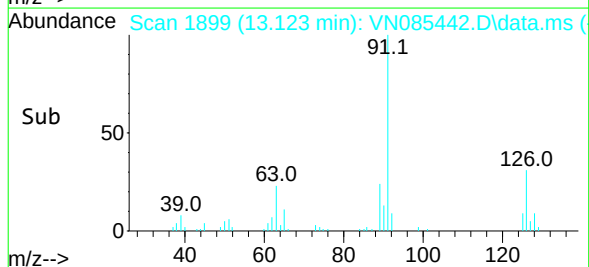
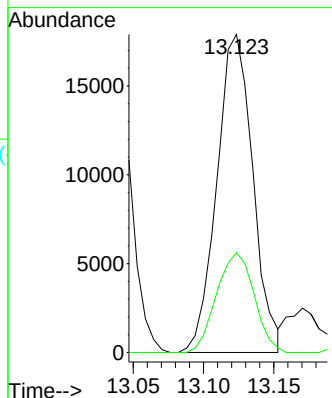
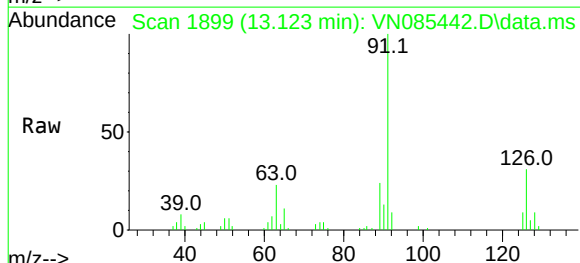
VSTDIC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#80

1,3,5-Trimethylbenzene

Concen: 4.537 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085442.D

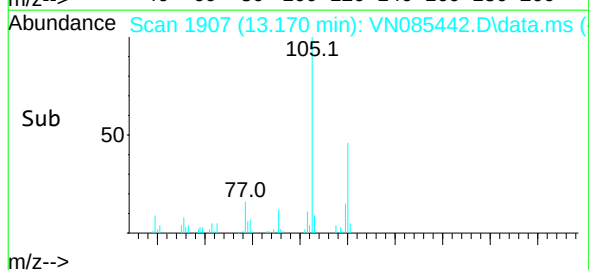
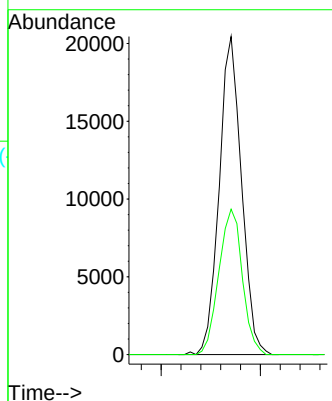
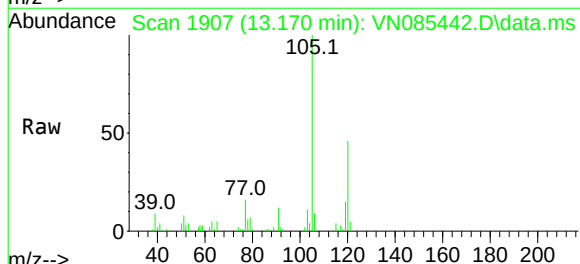
Acq: 14 Jan 2025 16:31

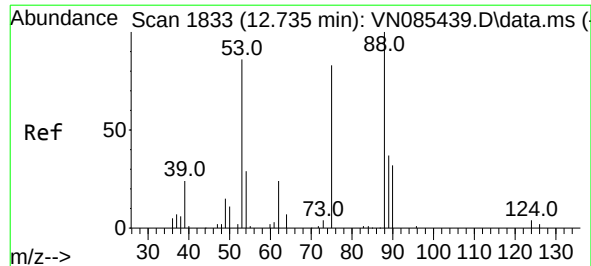
Tgt Ion:105 Resp: 31891

Ion Ratio Lower Upper

105 100

120 48.1 23.9 71.7





#81

trans-1,4-Dichloro-2-butene

Concen: 4.465 ug/l

RT: 12.729 min Scan# 1833

Delta R.T. -0.006 min

Lab File: VN085442.D

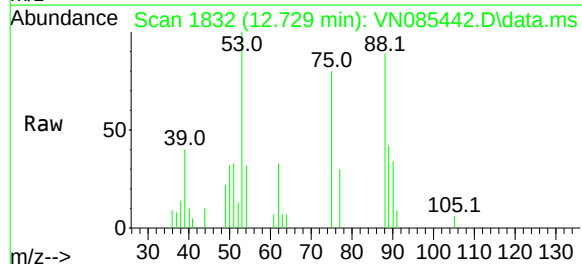
Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

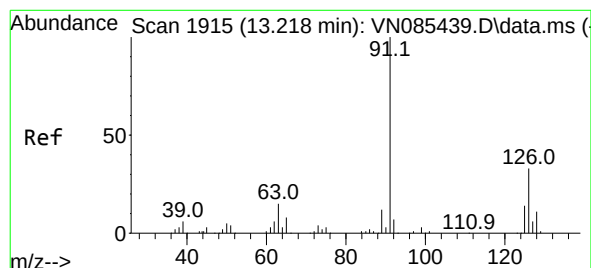
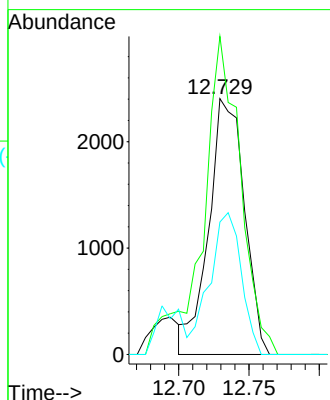
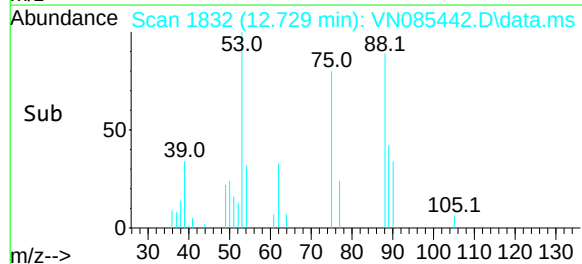
VSTDIC005



Tgt Ion:	75	Resp:	4229
Ion	Ratio	Lower	Upper
75	100		
53	132.6	95.6	143.4
89	49.7	37.0	55.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#82

4-Chlorotoluene

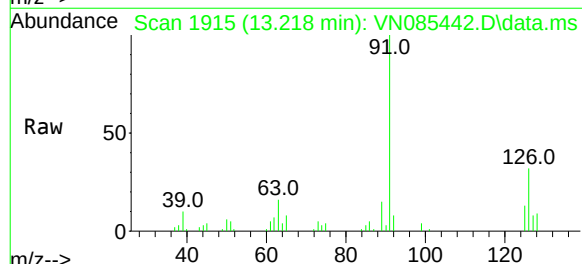
Concen: 4.926 ug/l

RT: 13.218 min Scan# 1915

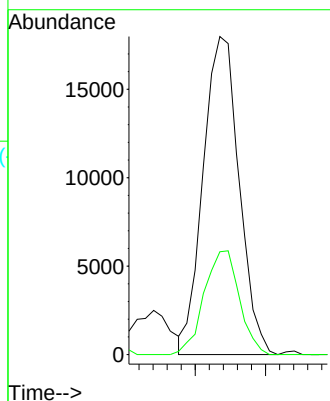
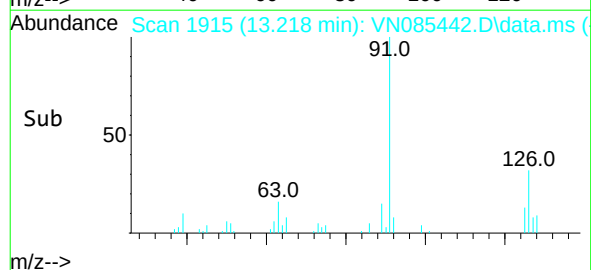
Delta R.T. 0.000 min

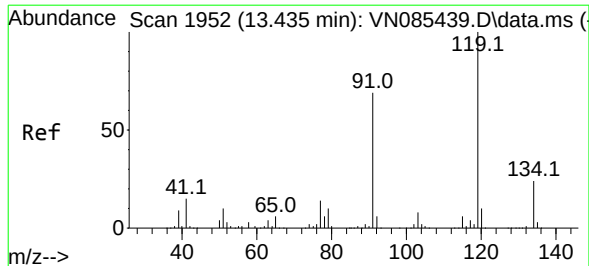
Lab File: VN085442.D

Acq: 14 Jan 2025 16:31



Tgt Ion:	91	Resp:	31976
Ion	Ratio	Lower	Upper
91	100		
126	31.9	15.9	47.7





#83

tert-Butylbenzene

Concen: 4.675 ug/l

RT: 13.435 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN085442.D

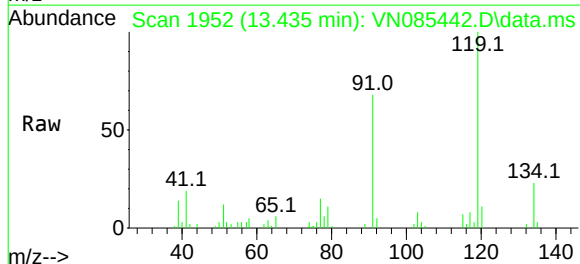
Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

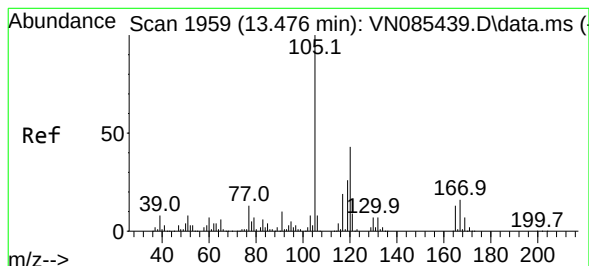
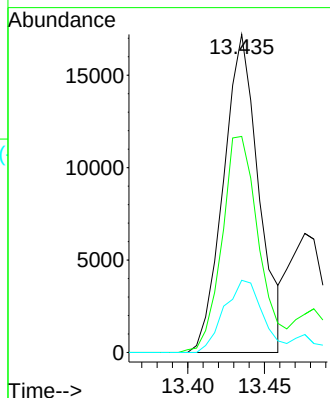
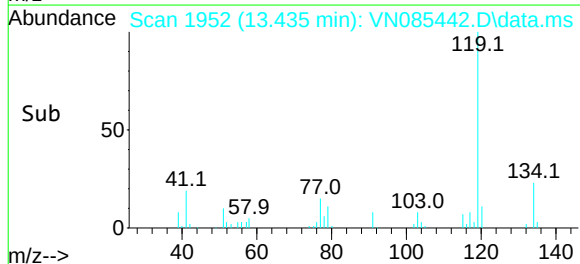
VSTDIC005



Tgt Ion:	119	Resp:	27597
Ion	Ratio	Lower	Upper
119	100		
91	71.1	35.1	105.3
134	24.8	12.0	36.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#84

1,2,4-Trimethylbenzene

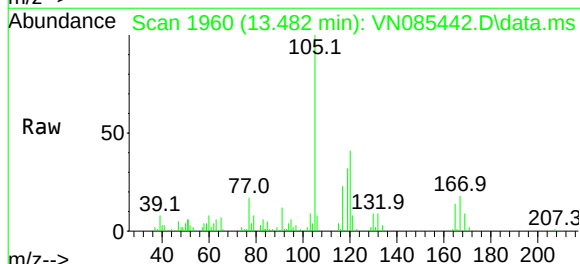
Concen: 4.575 ug/l

RT: 13.482 min Scan# 1960

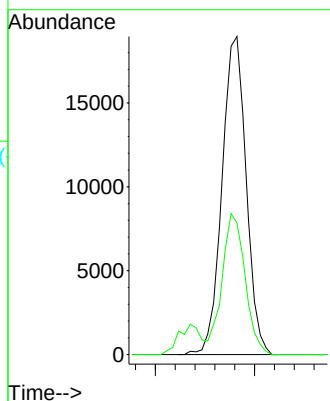
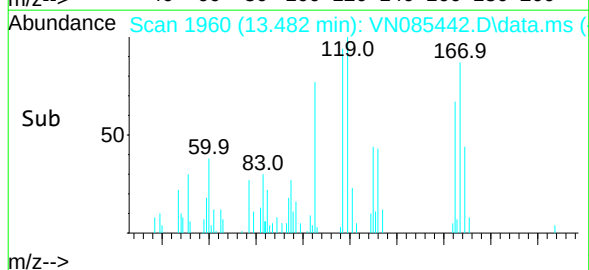
Delta R.T. 0.006 min

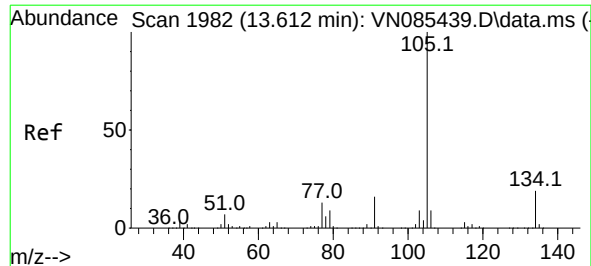
Lab File: VN085442.D

Acq: 14 Jan 2025 16:31



Tgt Ion:	105	Resp:	32054
Ion	Ratio	Lower	Upper
105	100		
120	42.0	21.6	65.0





#85

sec-Butylbenzene

Concen: 4.663 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 38148

Ion Ratio Lower Upper

105 100

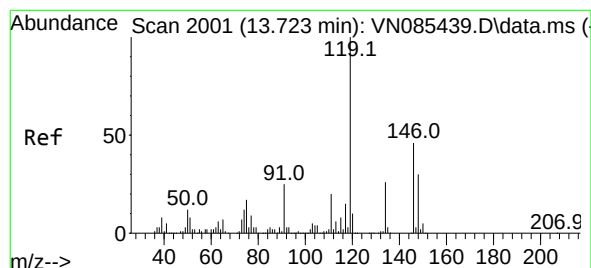
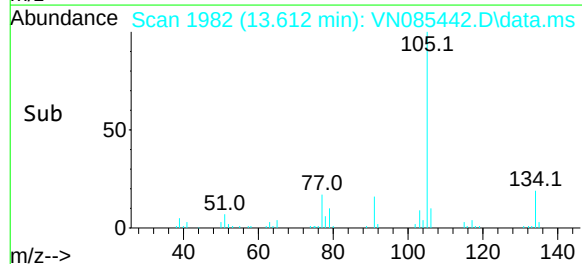
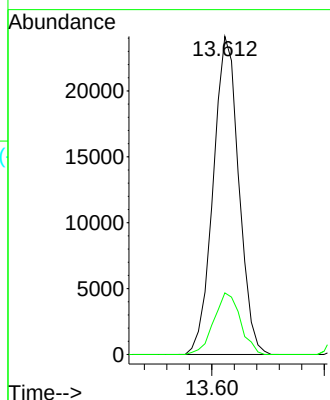
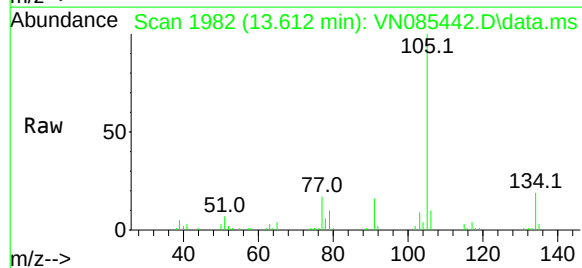
134 20.1 9.7 28.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#86

p-Isopropyltoluene

Concen: 4.584 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

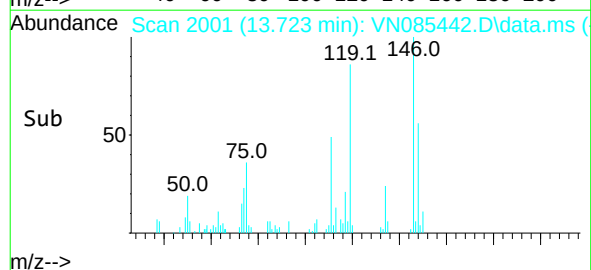
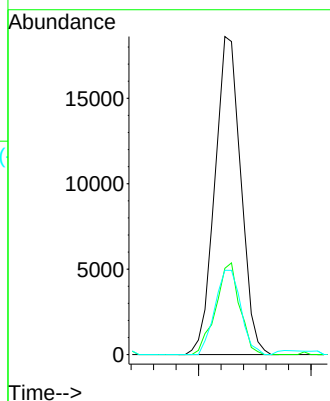
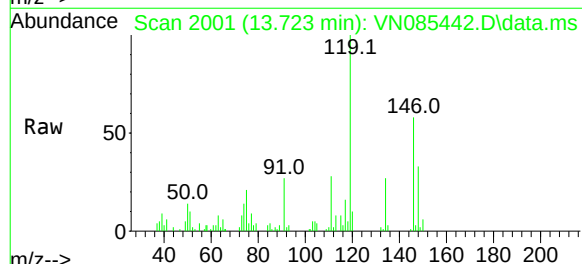
Tgt Ion:119 Resp: 29856

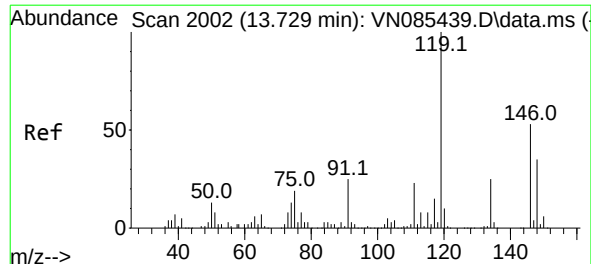
Ion Ratio Lower Upper

119 100

134 26.5 12.7 38.0

91 26.5 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 5.099 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:146 Resp: 20876

Ion Ratio Lower Upper

146 100

111 42.3 21.4 64.3

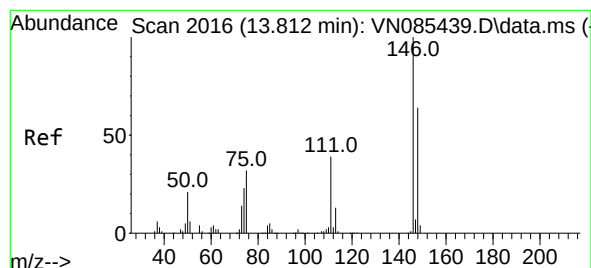
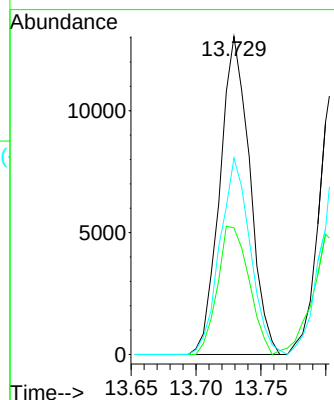
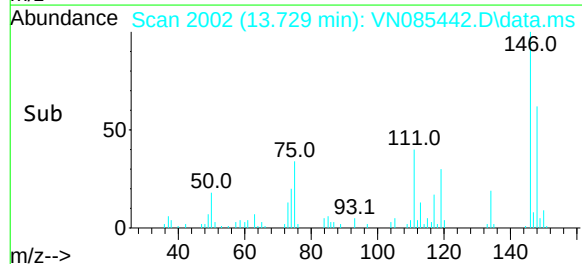
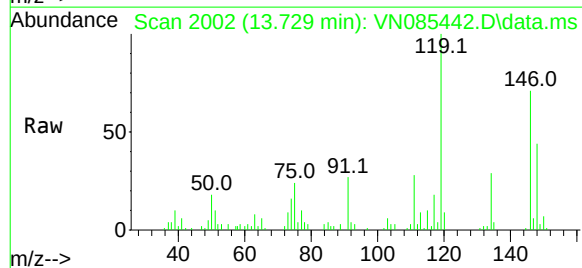
148 62.7 32.3 96.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#88

1,4-Dichlorobenzene

Concen: 5.179 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

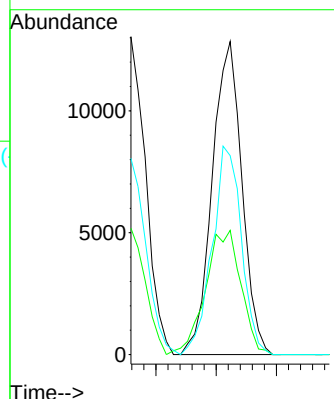
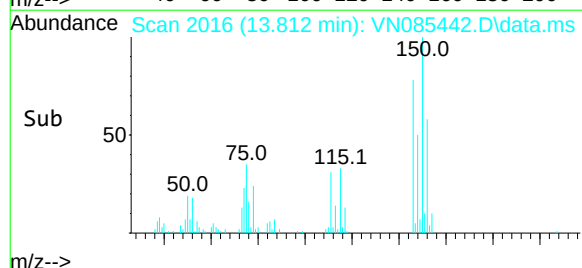
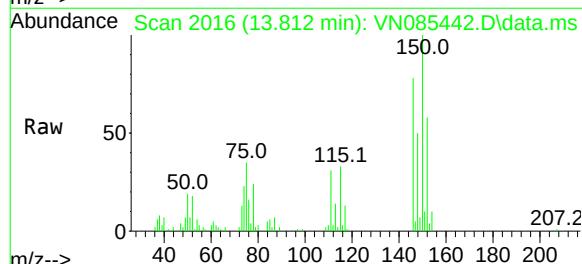
Tgt Ion:146 Resp: 21982

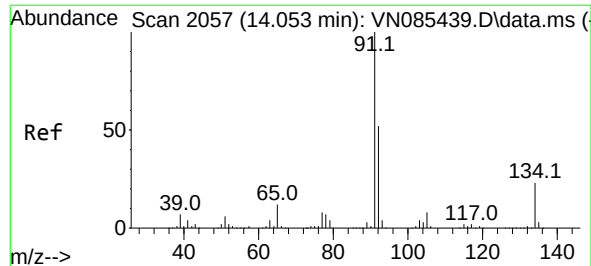
Ion Ratio Lower Upper

146 100

111 47.1 21.3 63.7

148 65.5 32.4 97.0





#89

n-Butylbenzene

Concen: 4.675 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

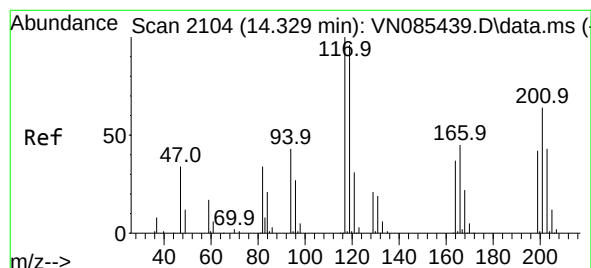
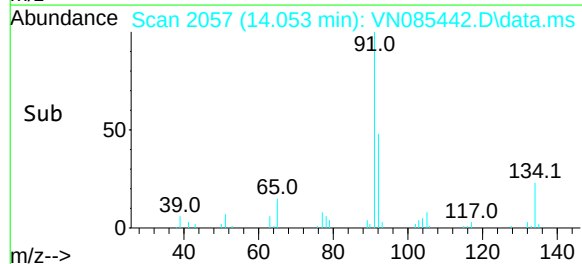
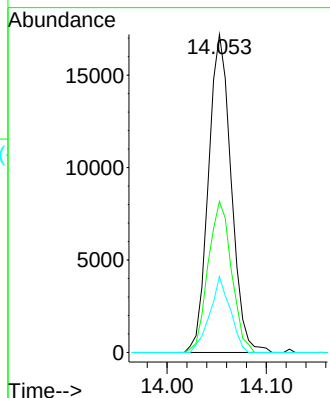
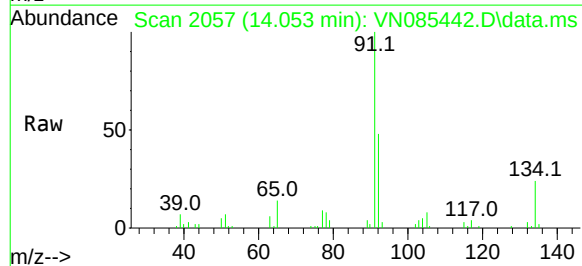
VSTDIC005

Tgt Ion:	91	Resp:	27437
Ion Ratio	Lower	Upper	
91	100		
92	48.7	25.8	77.3
134	21.4	11.7	35.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#90

Hexachloroethane

Concen: 4.987 ug/l

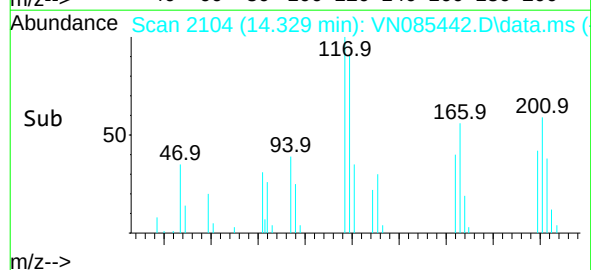
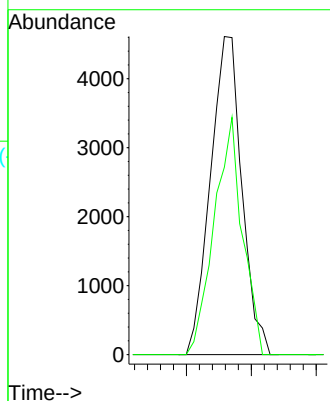
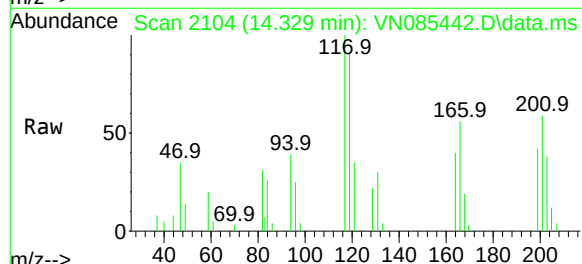
RT: 14.329 min Scan# 2104

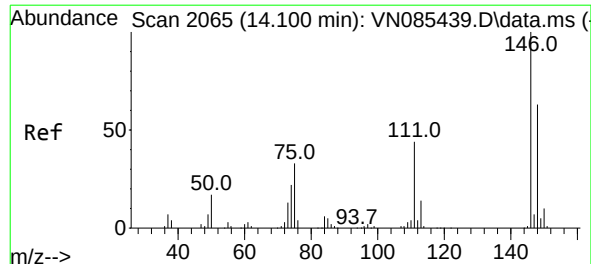
Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion:	117	Resp:	7767
Ion Ratio	Lower	Upper	
117	100		
201	66.9	33.7	101.0





#91

1,2-Dichlorobenzene

Concen: 4.940 ug/l

RT: 14.106 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VN085442.D

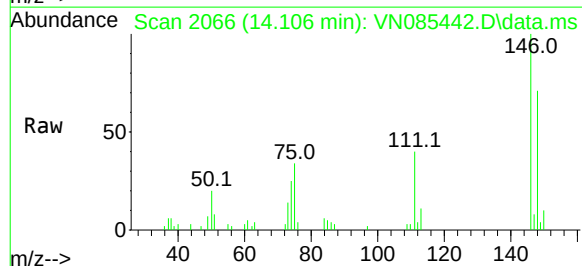
Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

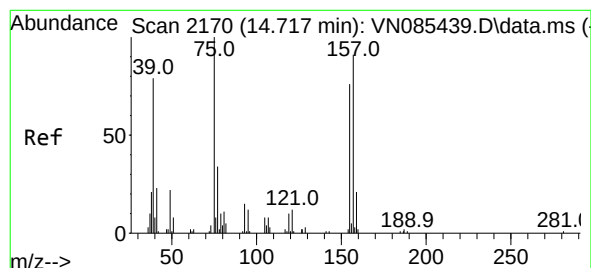
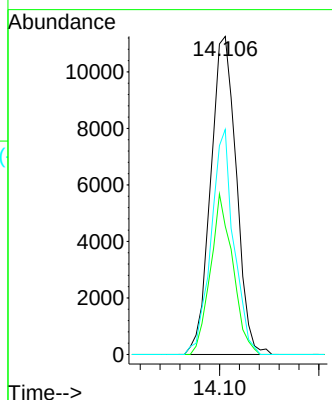
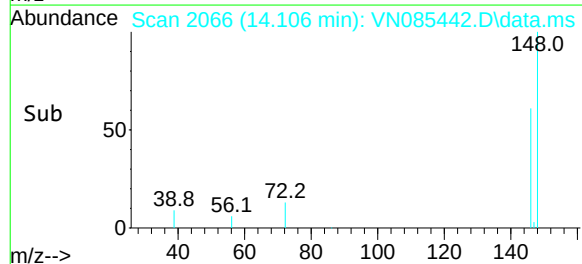
VSTDIC005



Tgt Ion:	146	Resp:	20177
Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.7	65.1
148	62.8	31.4	94.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#92

1,2-Dibromo-3-Chloropropane

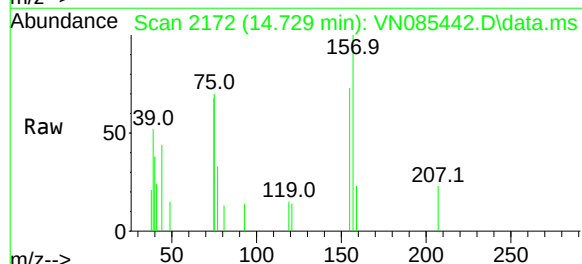
Concen: 5.232 ug/l

RT: 14.729 min Scan# 2172

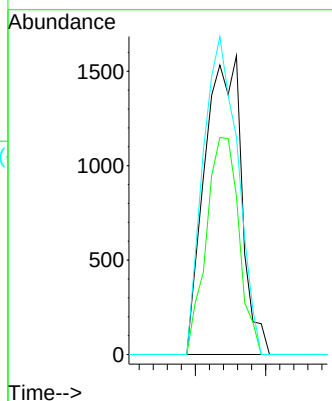
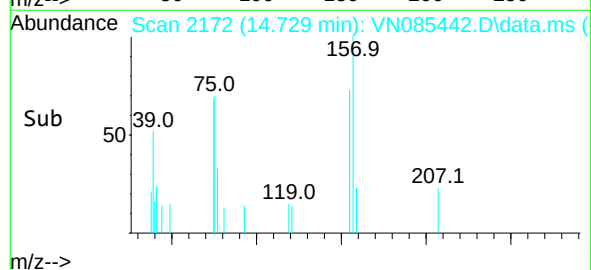
Delta R.T. 0.012 min

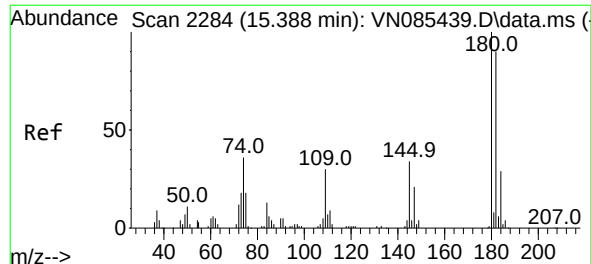
Lab File: VN085442.D

Acq: 14 Jan 2025 16:31



Tgt Ion:	75	Resp:	2872
Ion	Ratio	Lower	Upper
75	100		
155	64.2	36.4	109.2
157	99.8	45.4	136.1





#93

1,2,4-Trichlorobenzene

Concen: 4.761 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

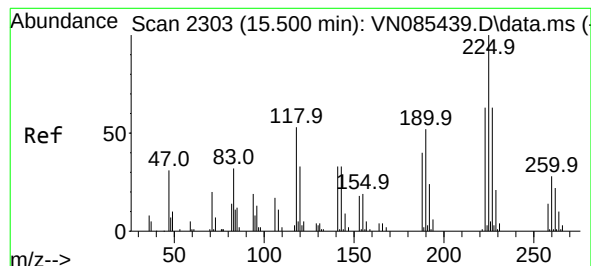
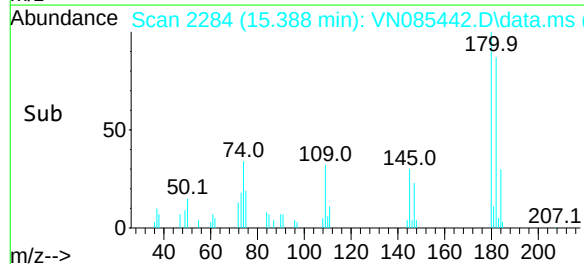
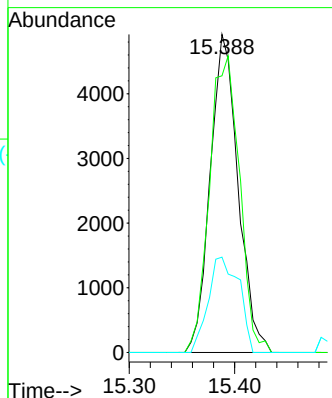
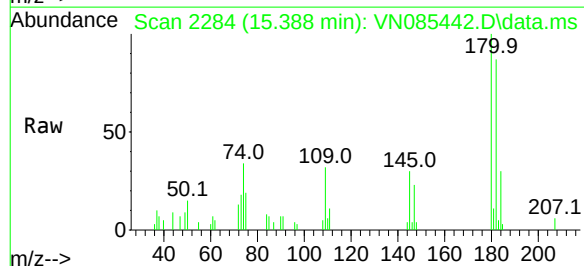
ClientSampleId :

VSTDIC005

Tgt	Ion:180	Resp:	9037
Ion	Ratio	Lower	Upper
180	100		
182	100.5	46.8	140.3
145	33.0	16.0	48.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#94

Hexachlorobutadiene

Concen: 5.520 ug/l

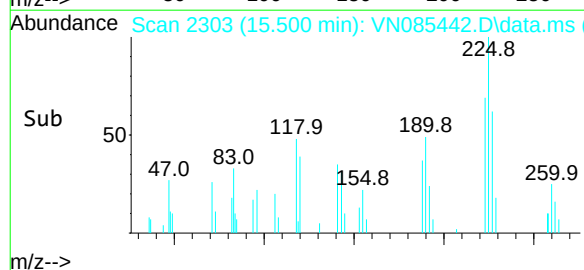
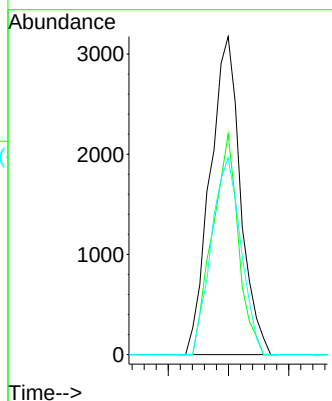
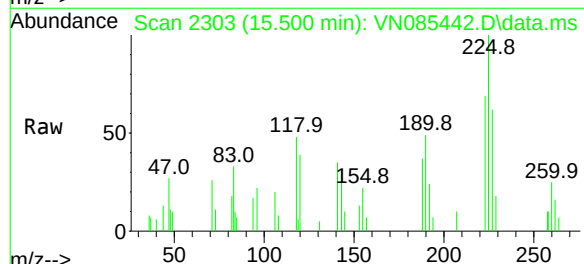
RT: 15.500 min Scan# 2303

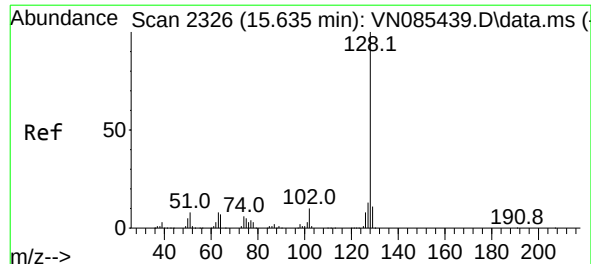
Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt	Ion:225	Resp:	5563
Ion	Ratio	Lower	Upper
225	100		
223	59.2	30.7	92.1
227	60.1	30.9	92.5





#95

Naphthalene

Concen: 4.422 ug/l

RT: 15.641 min Scan# 23

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

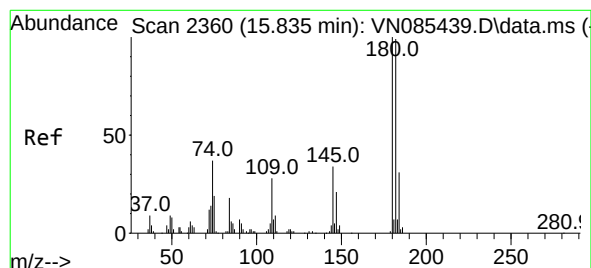
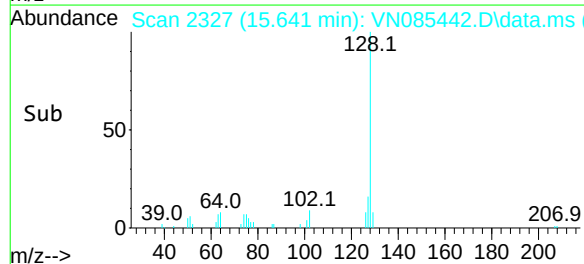
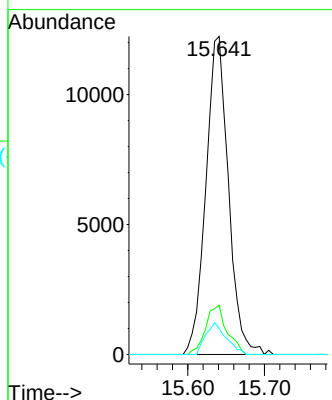
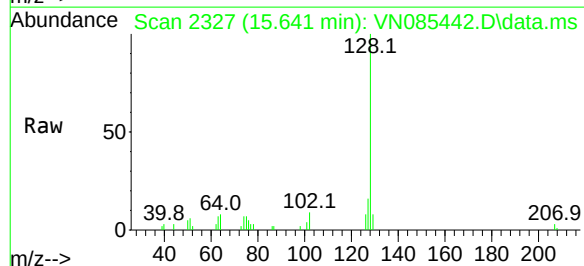
ClientSampleId :

VSTDIC005

Tgt Ion:	128	Resp:	25047
Ion	Ratio	Lower	Upper
128	100		
127	14.7	10.6	16.0
129	9.1	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#96

1,2,3-Trichlorobenzene

Concen: 4.549 ug/l

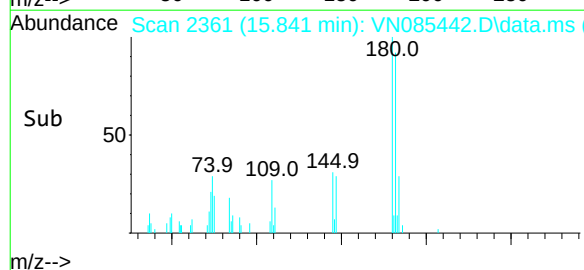
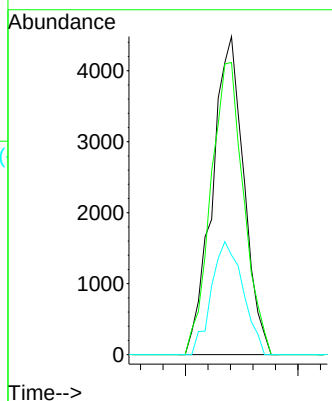
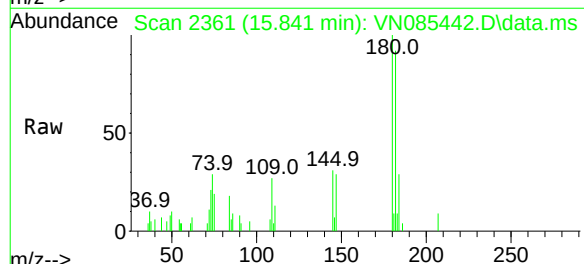
RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion:	180	Resp:	8737
Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.4	142.2
145	35.5	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085443.D
 Acq On : 14 Jan 2025 17:19
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:46:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	166880	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	302938	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	256851	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	99539	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	2.124	85	2382	1.054	ug/l	91
3) Chloromethane	2.359	50	2801	1.145	ug/l	93
4) Vinyl Chloride	2.512	62	2732	1.111	ug/l #	81
6) Chloroethane	3.124	64	1809	1.160	ug/l	94
7) Trichlorofluoromethane	3.512	101	3860	1.082	ug/l	88
8) Diethyl Ether	3.953	74	1526	1.238	ug/l	81
9) 1,1,2-Trichlorotrifluo...	4.359	101	2156m	1.073	ug/l	
12) 1,1-Dichloroethene	4.330	96	1660	0.927	ug/l #	67
14) Allyl chloride	5.024	41	3179	1.094	ug/l #	85
15) Acrylonitrile	5.718	53	4967	5.070	ug/l #	70
16) Acetone	4.436	43	5102	5.862	ug/l	92
17) Carbon Disulfide	4.706	76	6601	1.197	ug/l #	87
18) Methyl Acetate	5.030	43	2908	1.099	ug/l #	80
19) Methyl tert-butyl Ether	5.789	73	5156	0.887	ug/l #	87
20) Methylene Chloride	5.265	84	2190	1.016	ug/l #	87
21) trans-1,2-Dichloroethene	5.794	96	2110	1.102	ug/l #	66
22) Diisopropyl ether	6.677	45	5691	0.882	ug/l #	88
23) Vinyl Acetate	6.606	43	18526m	4.090	ug/l	
24) 1,1-Dichloroethane	6.583	63	4020m	1.022	ug/l	
25) 2-Butanone	7.483	43	6448m	5.034	ug/l	
26) 2,2-Dichloropropane	7.488	77	3104	0.976	ug/l	92
27) cis-1,2-Dichloroethene	7.477	96	2185	0.969	ug/l	92
28) Bromochloromethane	7.812	49	2082	1.138	ug/l #	89
29) Tetrahydrofuran	7.835	42	3693	4.548	ug/l	98
30) Chloroform	7.965	83	4250	1.045	ug/l #	80
32) 1,1,1-Trichloroethane	8.165	97	3678	1.031	ug/l #	56
36) 1,1-Dichloropropene	8.371	75	3084	1.046	ug/l #	84
37) Ethyl Acetate	7.577	43	3056m	1.026	ug/l	
38) Carbon Tetrachloride	8.359	117	3436	1.018	ug/l	90
39) Methylcyclohexane	9.600	83	2403	0.867	ug/l #	87
40) Benzene	8.606	78	8480	0.957	ug/l	91
41) Methacrylonitrile	7.771	41	1458	0.941	ug/l #	76
42) 1,2-Dichloroethane	8.665	62	3131	0.938	ug/l	91
43) Isopropyl Acetate	8.682	43	4803	1.007	ug/l #	87
44) Trichloroethene	9.347	130	2133	1.034	ug/l	71
45) 1,2-Dichloropropane	9.618	63	2246	0.992	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085443.D
 Acq On : 14 Jan 2025 17:19
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:46:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.706	93	1769	1.083	ug/l	92
47) Bromodichloromethane	9.882	83	2935	0.882	ug/l	90
48) Methyl methacrylate	9.677	41	1886	0.878	ug/l	96
49) 1,4-Dioxane	9.688	88	673	18.616	ug/l #	47
51) 4-Methyl-2-Pentanone	10.441	43	11523	4.163	ug/l	93
52) Toluene	10.618	92	4180	0.814	ug/l	93
53) t-1,3-Dichloropropene	10.835	75	2522	0.802	ug/l	92
54) cis-1,3-Dichloropropene	10.312	75	2725	0.811	ug/l #	83
55) 1,1,2-Trichloroethane	11.018	97	1901	0.935	ug/l	91
56) Ethyl methacrylate	10.871	69	1923	2.471	ug/l #	88
57) 1,3-Dichloropropane	11.165	76	3113	0.881	ug/l	95
58) 2-Chloroethyl Vinyl ether	10.153	63	4929	3.822	ug/l	91
59) 2-Hexanone	11.194	43	7905	4.058	ug/l	87
60) Dibromochloromethane	11.359	129	2339	0.953	ug/l	98
61) 1,2-Dibromoethane	11.465	107	2022	1.000	ug/l	90
64) Tetrachloroethene	11.106	164	1658	0.947	ug/l #	83
65) Chlorobenzene	11.888	112	5401	0.960	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.959	131	2185	1.058	ug/l #	64
67) Ethyl Benzene	11.959	91	7347	0.802	ug/l	94
68) m/p-Xylenes	12.070	106	5059	1.494	ug/l	100
69) o-Xylene	12.394	106	2478	0.766	ug/l	97
70) Styrene	12.406	104	3812	0.712	ug/l	99
71) Bromoform	12.582	173	1208	0.818	ug/l #	88
73) Isopropylbenzene	12.688	105	5506	0.820	ug/l	98
74) N-amyl acetate	12.494	43	2716	0.899	ug/l #	87
75) 1,1,1,2-Tetrachloroethane	12.935	83	2616	1.102	ug/l #	96
76) 1,2,3-Trichloropropane	12.982	75	2198m	1.088	ug/l	
77) Bromobenzene	12.976	156	1733	0.987	ug/l	97
78) n-propylbenzene	13.029	91	6424	0.808	ug/l	93
79) 2-Chlorotoluene	13.117	91	4483	0.871	ug/l	97
80) 1,3,5-Trimethylbenzene	13.165	105	4301	0.775	ug/l	90
82) 4-Chlorotoluene	13.223	91	4268	0.833	ug/l	99
83) tert-Butylbenzene	13.435	119	3753	0.805	ug/l	96
84) 1,2,4-Trimethylbenzene	13.482	105	3758	0.679	ug/l	93
85) sec-Butylbenzene	13.612	105	4614	0.714	ug/l	99
86) p-Isopropyltoluene	13.723	119	3538	0.716	ug/l	98
87) 1,3-Dichlorobenzene	13.723	146	3038	0.940	ug/l	95
88) 1,4-Dichlorobenzene	13.806	146	3517m	1.050	ug/l	
89) n-Butylbenzene	14.053	91	3527	0.761	ug/l	93
90) Hexachloroethane	14.341	117	1355	1.102	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	3515	1.090	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.711	75	402	0.928	ug/l	74
93) 1,2,4-Trichlorobenzene	15.394	180	1310	0.874	ug/l #	80
94) Hexachlorobutadiene	15.500	225	822	1.033	ug/l	89
95) Naphthalene	15.641	128	4210	0.941	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.835	180	1494	0.985	ug/l #	86

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

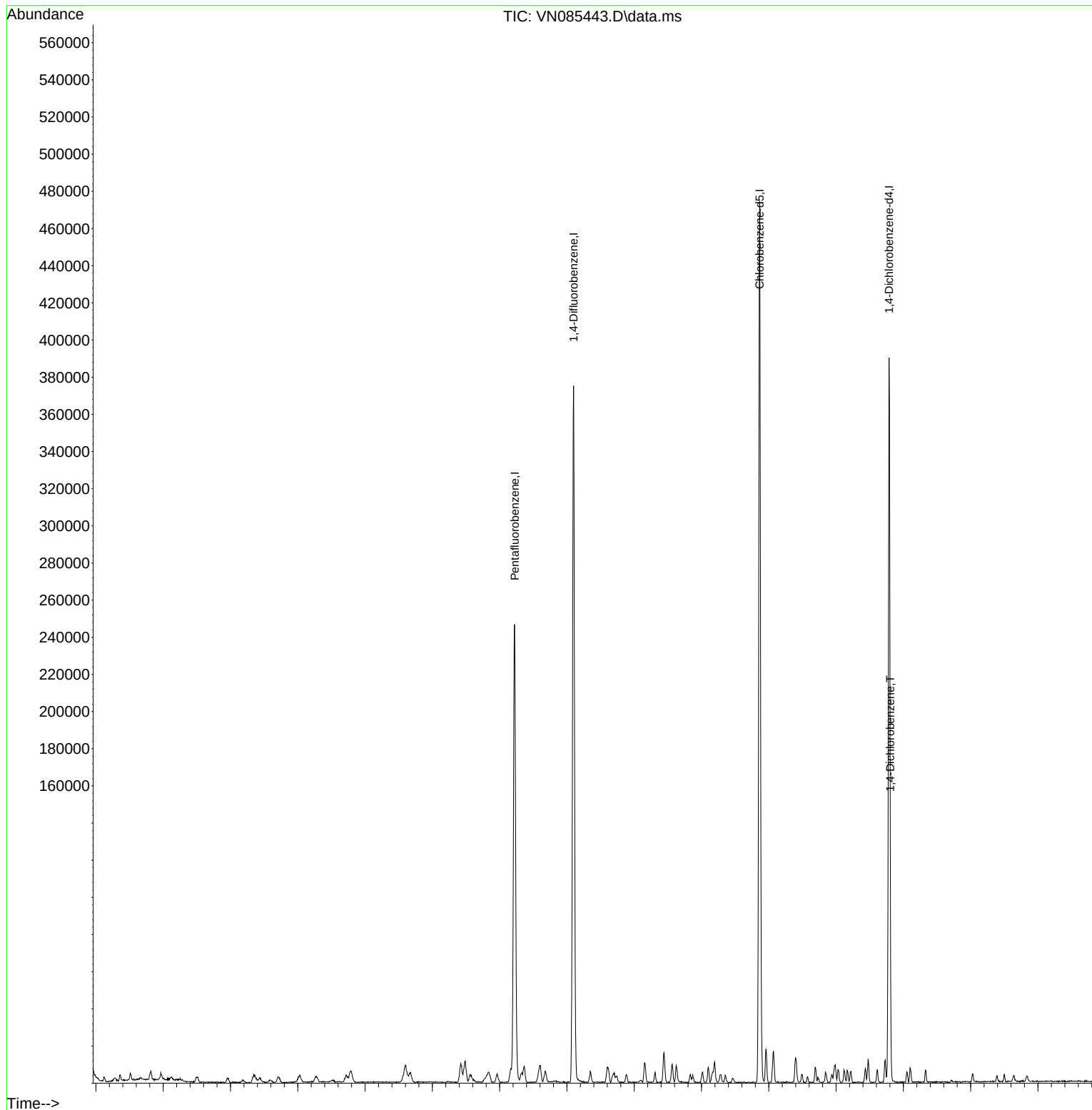
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085443.D
Acq On : 14 Jan 2025 17:19
Operator : JC\MD
Sample : VSTDIC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

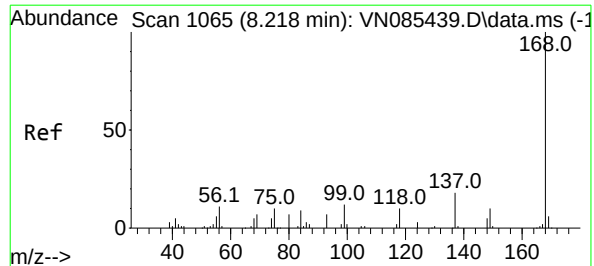
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Manual Integrations
APPROVED

Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025

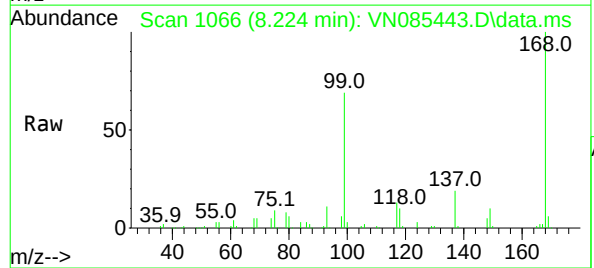
Quant Time: Jan 15 01:46:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

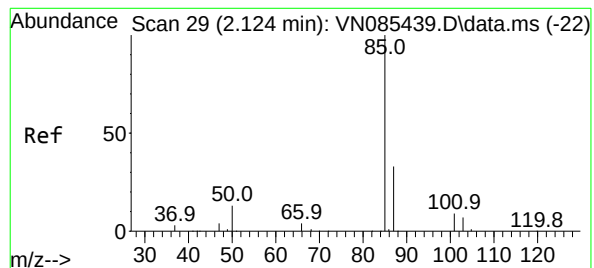
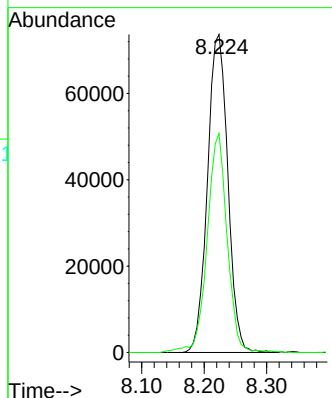
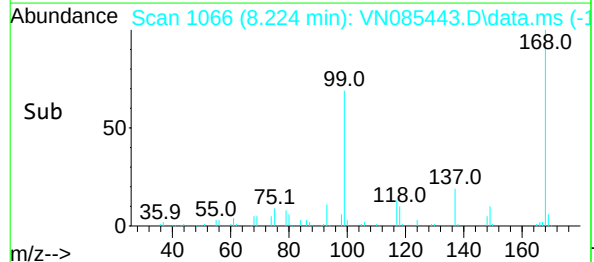
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001



Tgt Ion: 168 Resp: 166880
Ion Ratio Lower Upper
168 100
99 68.6 53.6 80.4

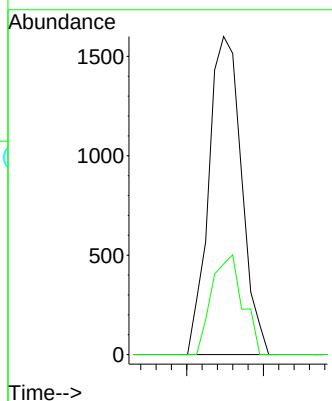
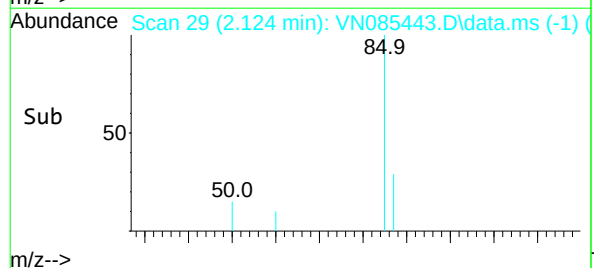
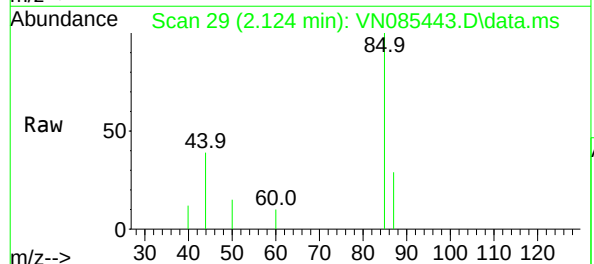
Manual Integrations
APPROVED

Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025

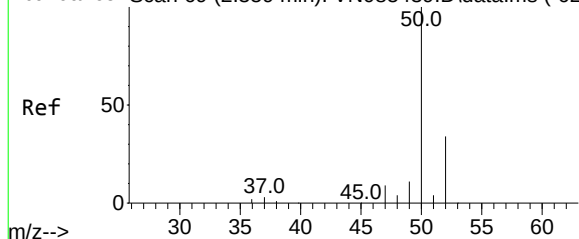


#2
Dichlorodifluoromethane
Concen: 1.054 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 85 Resp: 2382
Ion Ratio Lower Upper
85 100
87 28.5 16.7 50.1



Abundance Scan 69 (2.359 min): VN085439.D\data.ms (-62)



#3

Chloromethane

Concen: 1.145 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

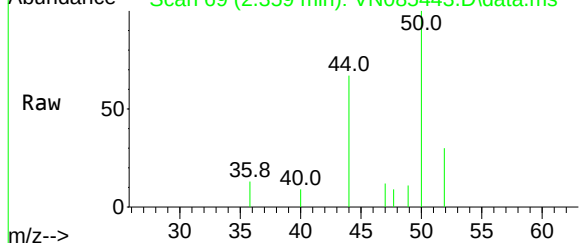
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Abundance Scan 69 (2.359 min): VN085443.D\data.ms



Tgt Ion: 50 Resp: 2801

Ion Ratio Lower Upper

50 100

52 29.7 27.0 40.6

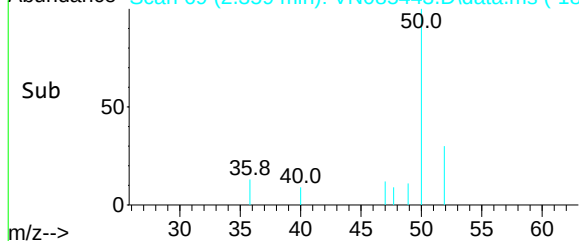
Manual Integrations

APPROVED

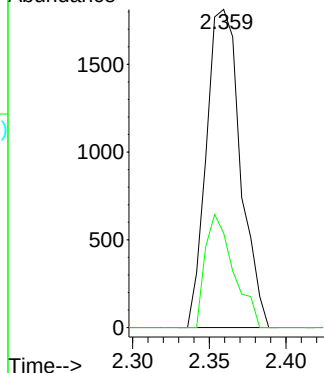
Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025

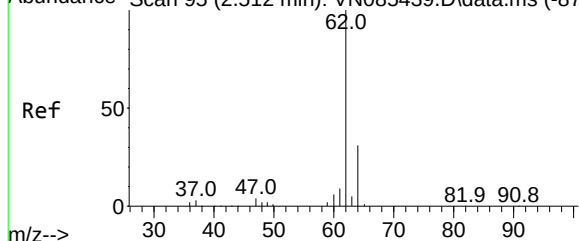
Abundance Scan 69 (2.359 min): VN085443.D\data.ms (-18)



Abundance



Abundance Scan 95 (2.512 min): VN085439.D\data.ms (-87)



#4

Vinyl Chloride

Concen: 1.111 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

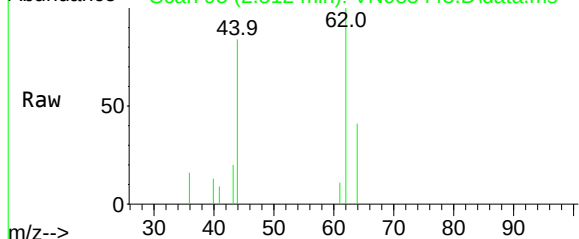
Tgt Ion: 62 Resp: 2732

Ion Ratio Lower Upper

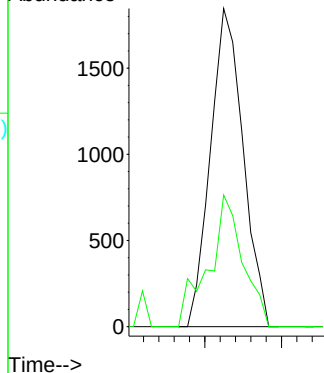
62 100

64 41.4 24.8 37.2

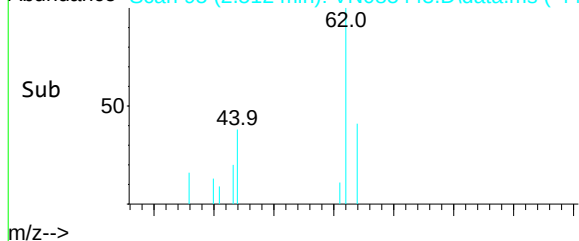
Abundance Scan 95 (2.512 min): VN085443.D\data.ms

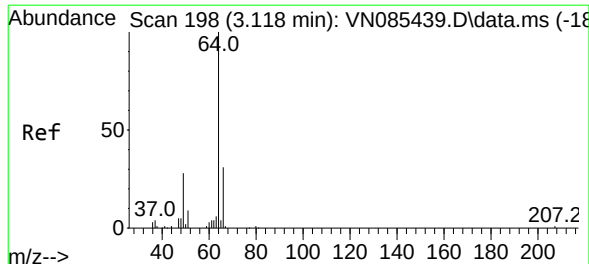


Abundance



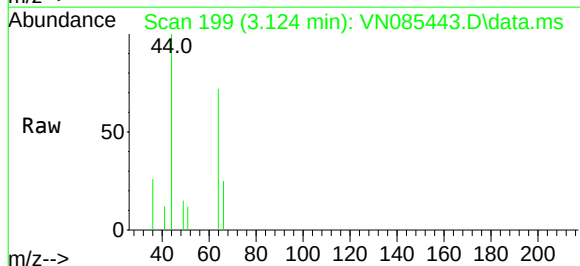
Abundance Scan 95 (2.512 min): VN085443.D\data.ms (-44)





#6
Chloroethane
Concen: 1.160 ug/l
RT: 3.124 min Scan# 198
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

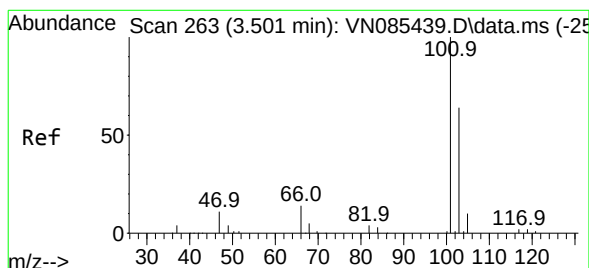
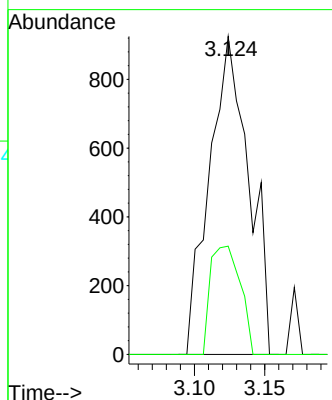
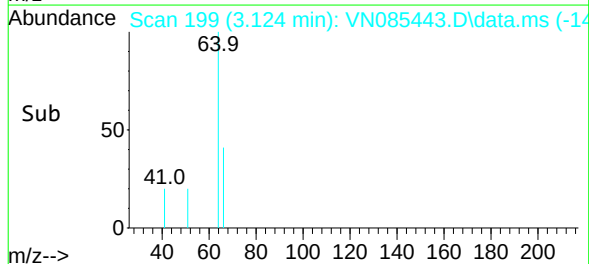
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001



Tgt Ion: 64 Resp: 1809
Ion Ratio Lower Upper
64 100
66 34.1 24.6 36.8

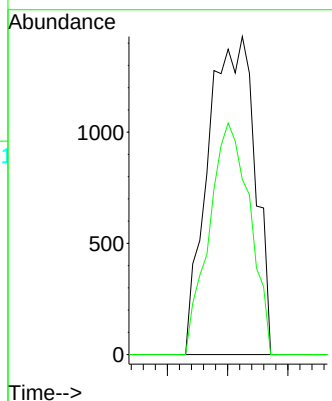
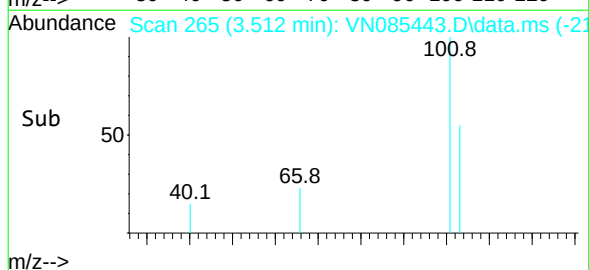
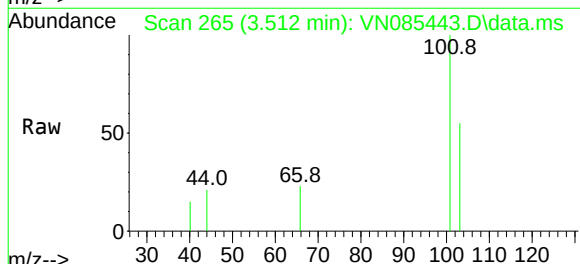
Manual Integrations
APPROVED

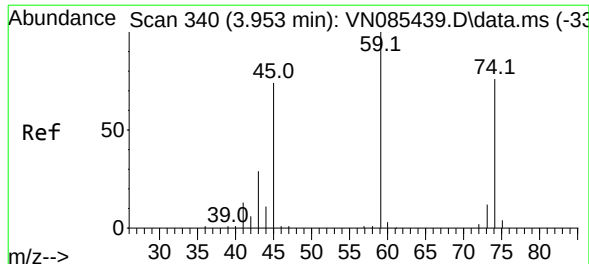
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#7
Trichlorofluoromethane
Concen: 1.082 ug/l
RT: 3.512 min Scan# 265
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

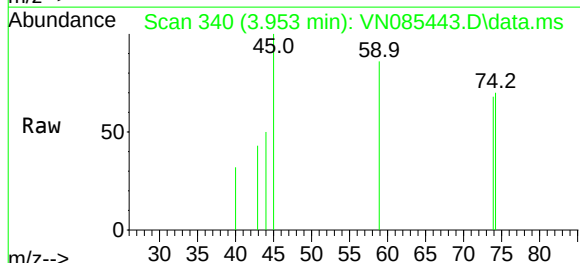
Tgt Ion:101 Resp: 3860
Ion Ratio Lower Upper
101 100
103 55.0 51.4 77.2





#8
Diethyl Ether
Concen: 1.238 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

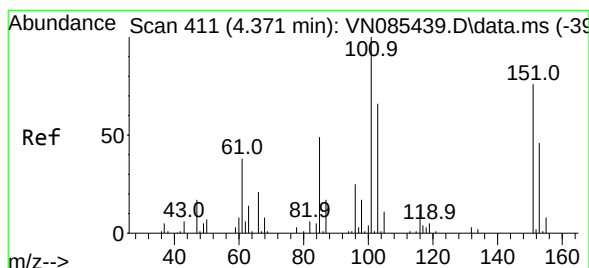
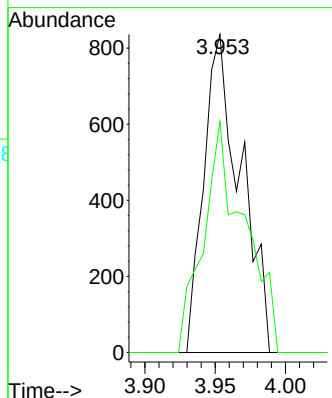
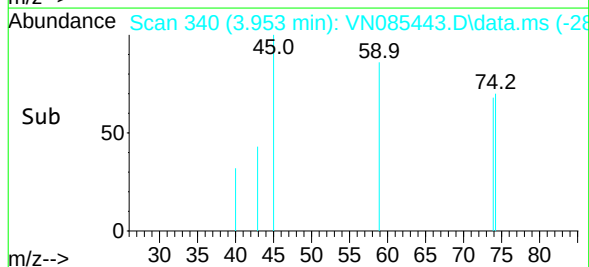
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 74 Resp: 1526
Ion Ratio Lower Upper
74 100
45 80.9 49.7 149.1

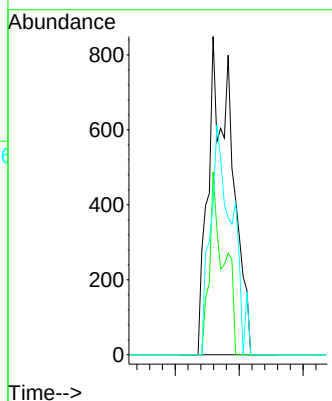
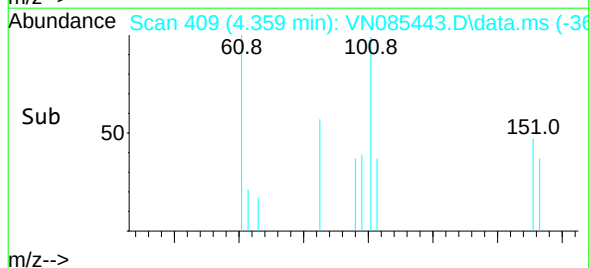
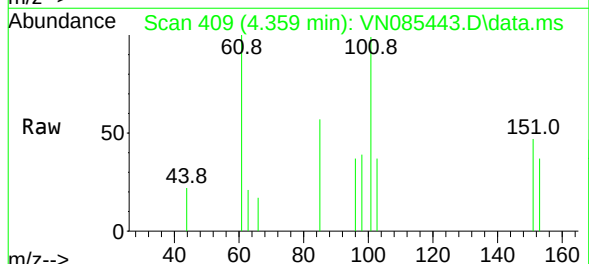
Manual Integrations
APPROVED

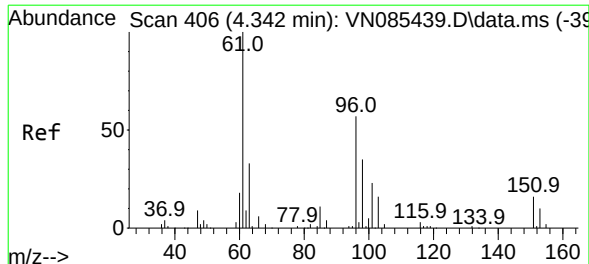
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.073 ug/l m
RT: 4.359 min Scan# 409
Delta R.T. -0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:101 Resp: 2156
Ion Ratio Lower Upper
101 100
85 35.3 37.8 56.8#
151 66.4 58.8 88.2





#12

1,1-Dichloroethene

Concen: 0.927 ug/l

RT: 4.330 min Scan# 406

Delta R.T. -0.012 min

Lab File: VN085443.D

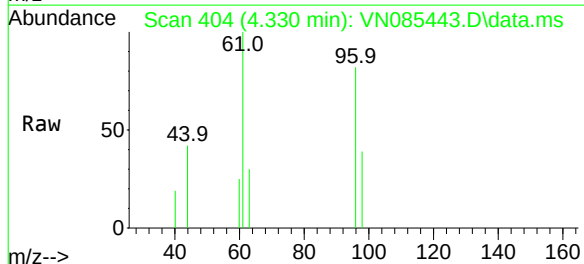
Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001



Tgt Ion: 96 Resp: 1660

Ion Ratio Lower Upper

96 100

61 122.1 141.0 211.4#

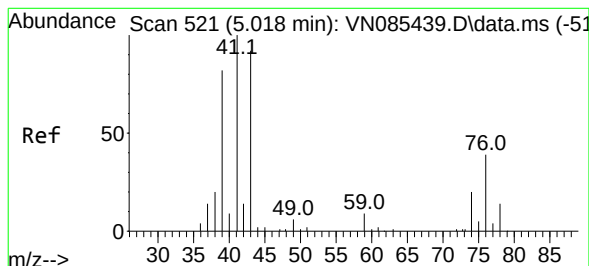
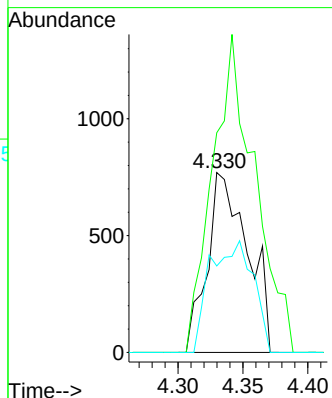
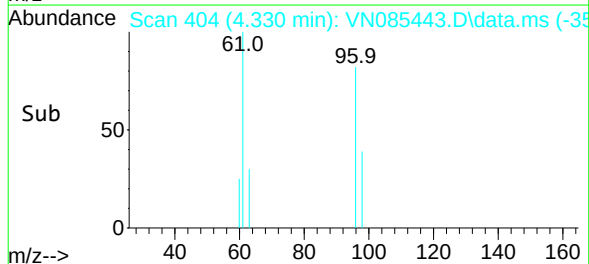
98 48.1 49.0 73.6#

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#14

Allyl chloride

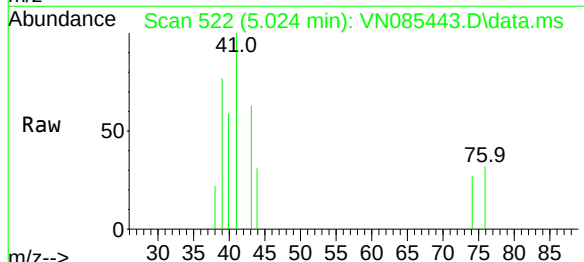
Concen: 1.094 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19



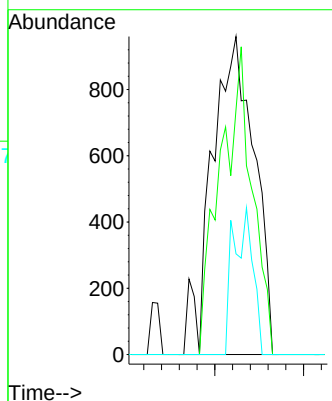
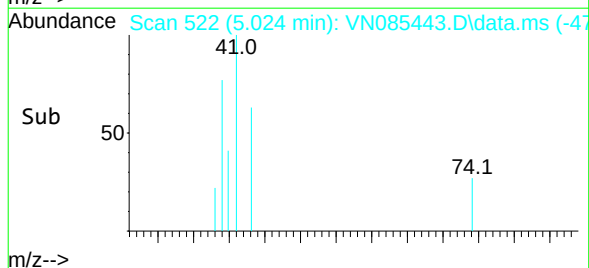
Tgt Ion: 41 Resp: 3179

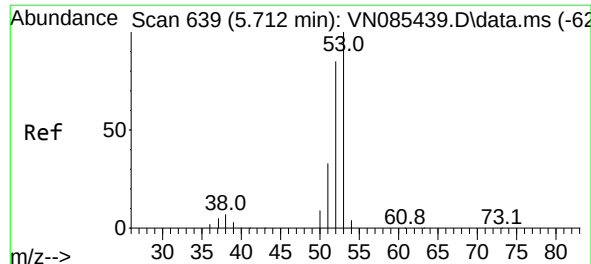
Ion Ratio Lower Upper

41 100

39 73.1 64.4 96.6

76 21.4 30.5 45.7#





#15

Acrylonitrile

Concen: 5.070 ug/l

RT: 5.718 min Scan# 64

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

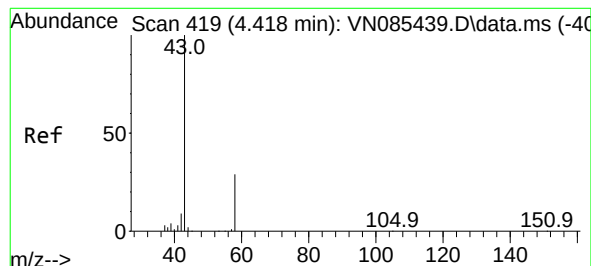
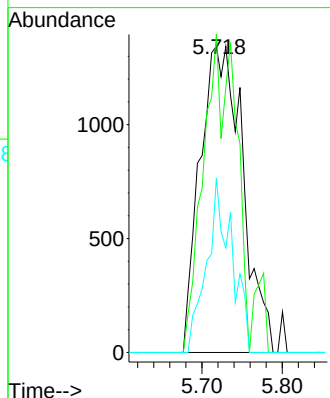
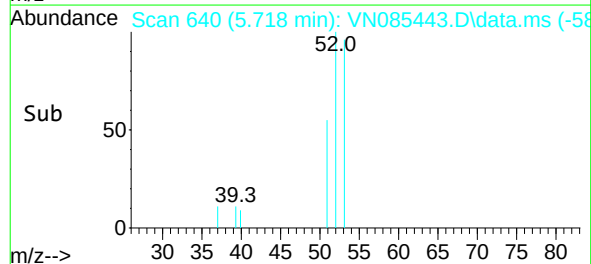
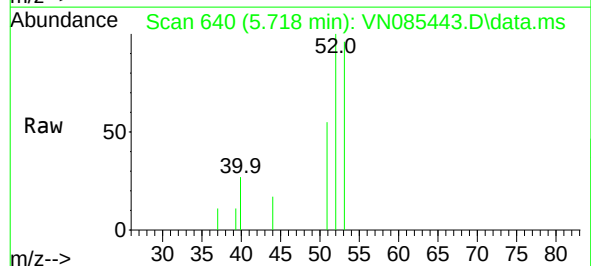
ClientSampleId :

VSTDIC001

Tgt Ion:	53	Resp:	4967
Ion	Ratio	Lower	Upper
53	100		
52	45.1	65.5	98.3
51	33.3	29.8	44.8

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Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#16

Acetone

Concen: 5.862 ug/l

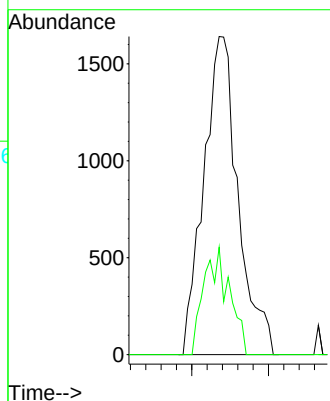
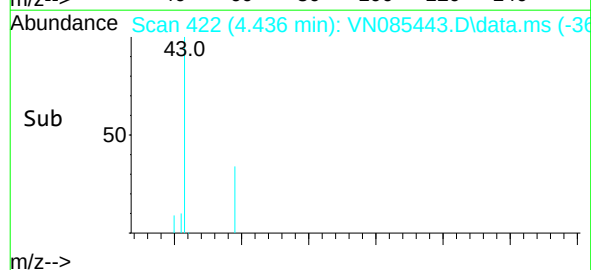
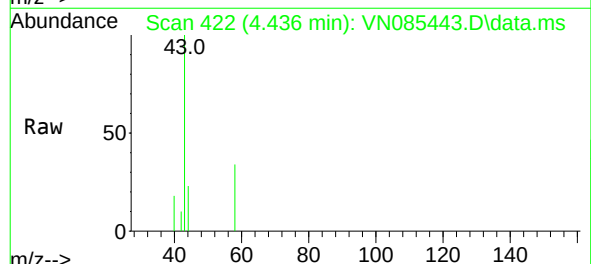
RT: 4.436 min Scan# 422

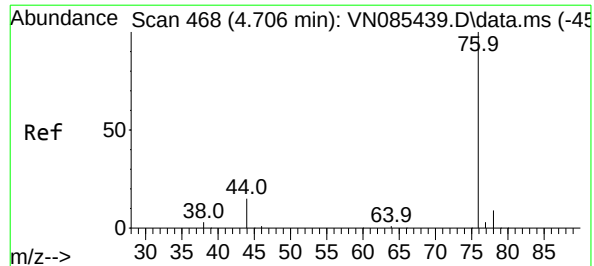
Delta R.T. 0.018 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion:	43	Resp:	5102
Ion	Ratio	Lower	Upper
43	100		
58	33.8	23.8	35.6





#17

Carbon Disulfide

Concen: 1.197 ug/l

RT: 4.706 min Scan# 468

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 76 Resp: 6601

Ion Ratio Lower Upper

76 100

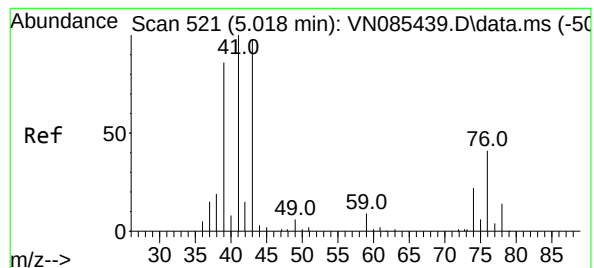
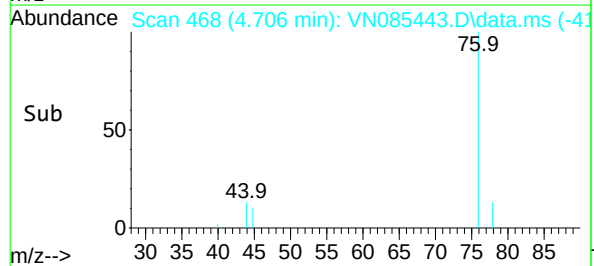
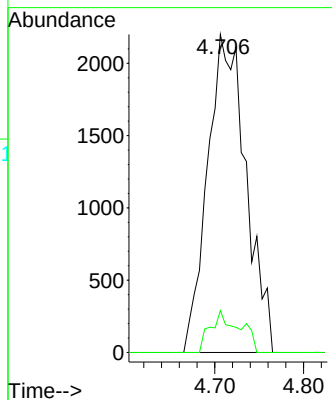
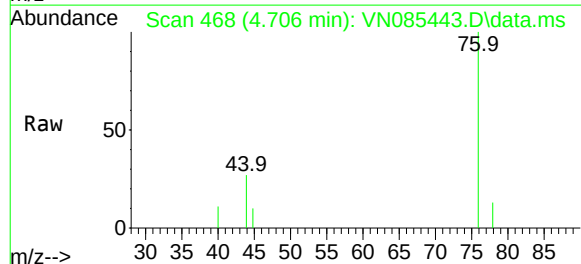
78 13.2 6.9 10.3#

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#18

Methyl Acetate

Concen: 1.099 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN085443.D

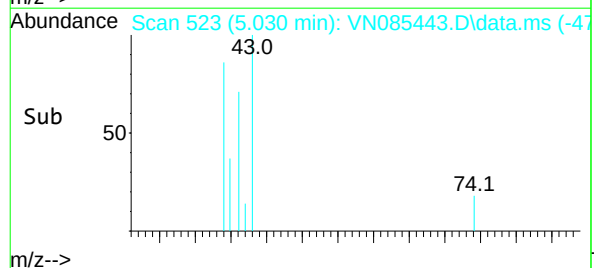
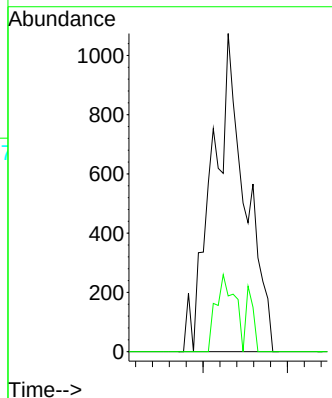
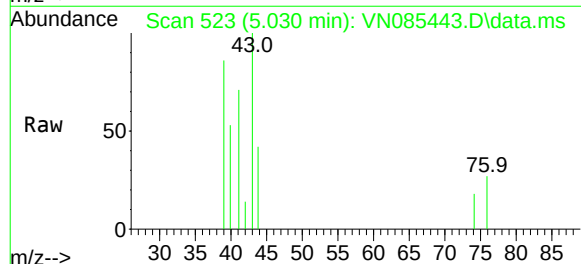
Acq: 14 Jan 2025 17:19

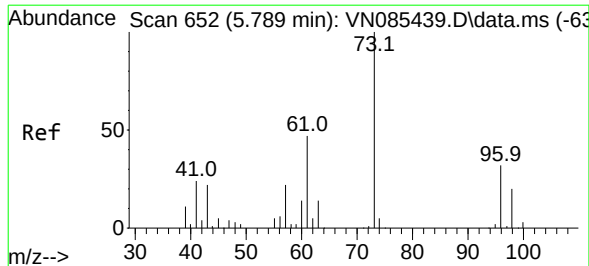
Tgt Ion: 43 Resp: 2908

Ion Ratio Lower Upper

43 100

74 13.8 18.6 28.0#





#19

Methyl tert-butyl Ether

Concen: 0.887 ug/l

RT: 5.789 min Scan# 65

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 73 Resp: 5156

Ion Ratio Lower Upper

73 100

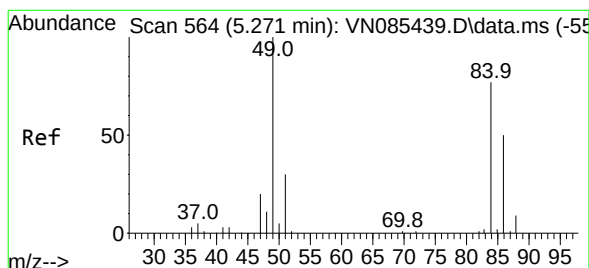
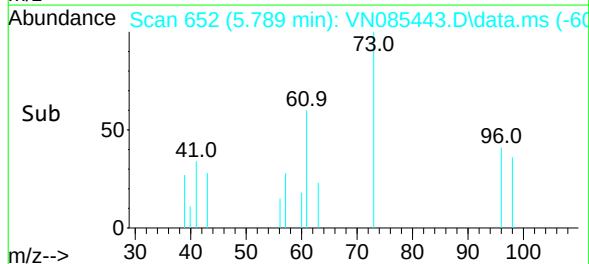
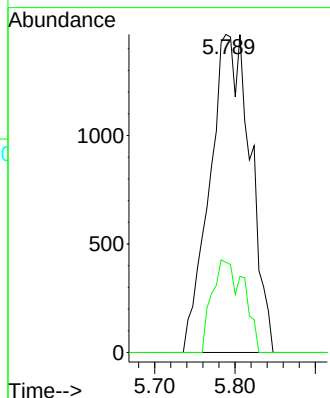
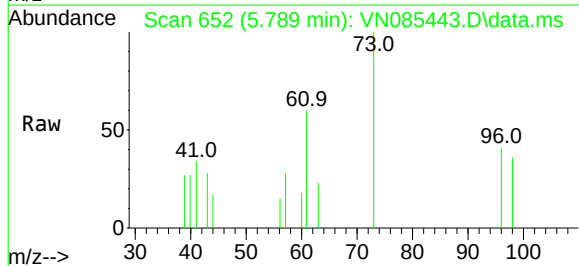
57 28.4 17.8 26.8#

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#20

Methylene Chloride

Concen: 1.016 ug/l

RT: 5.265 min Scan# 563

Delta R.T. -0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion: 84 Resp: 2190

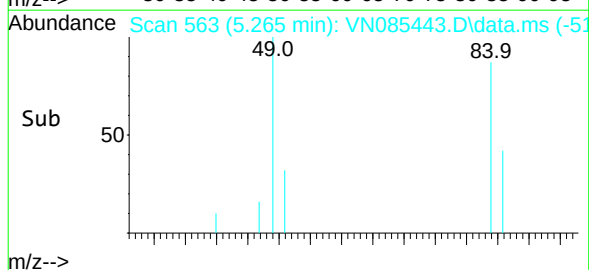
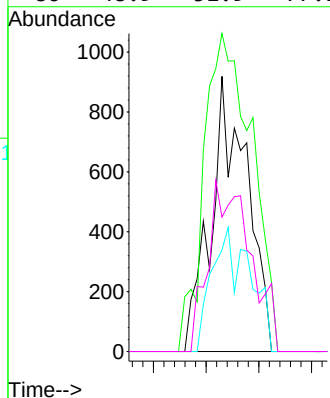
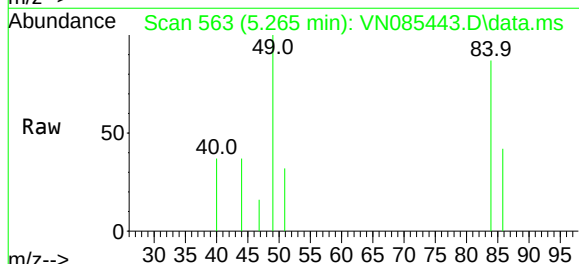
Ion Ratio Lower Upper

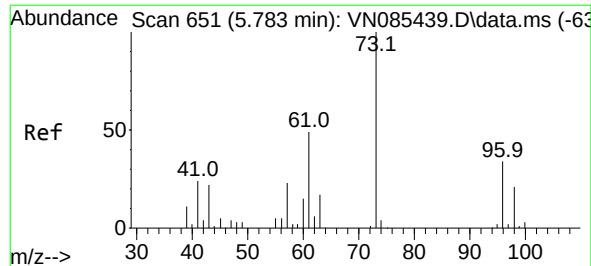
84 100

49 115.6 104.1 156.1

51 36.9 31.0 46.4

86 48.9 51.9 77.9#





#21

trans-1,2-Dichloroethene

Concen: 1.102 ug/l

RT: 5.794 min Scan# 651

Delta R.T. 0.012 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 96 Resp: 2110

Ion Ratio Lower Upper

96 100

61 98.7 115.7 173.5#

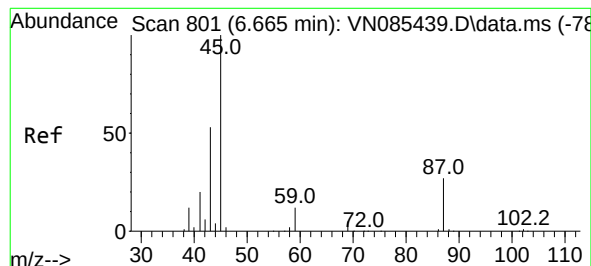
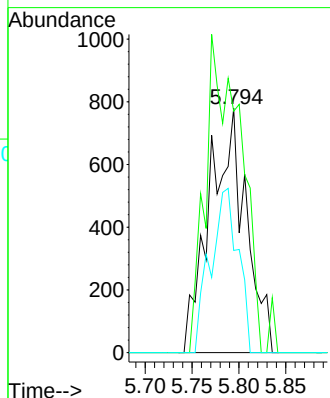
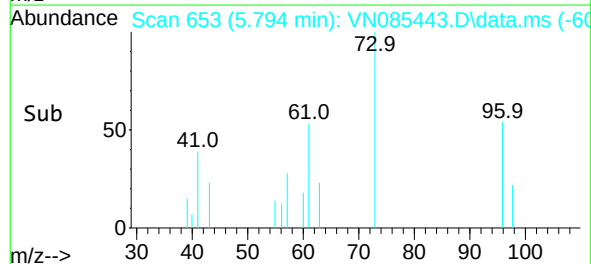
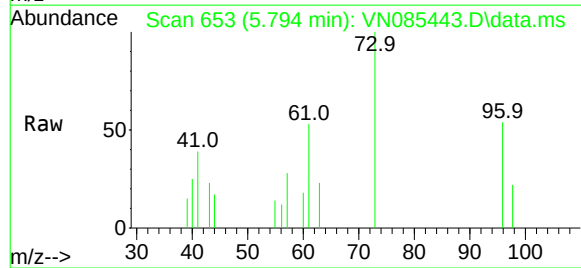
98 41.8 49.8 74.8#

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#22

Diisopropyl ether

Concen: 0.882 ug/l

RT: 6.677 min Scan# 803

Delta R.T. 0.012 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion: 45 Resp: 5691

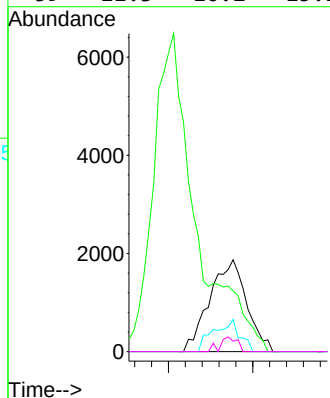
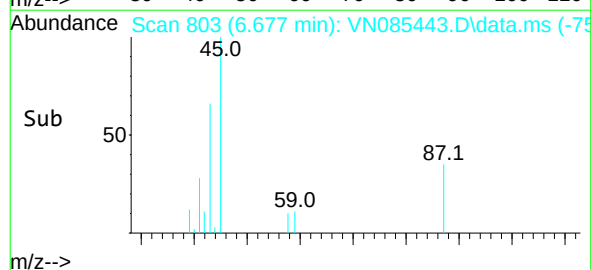
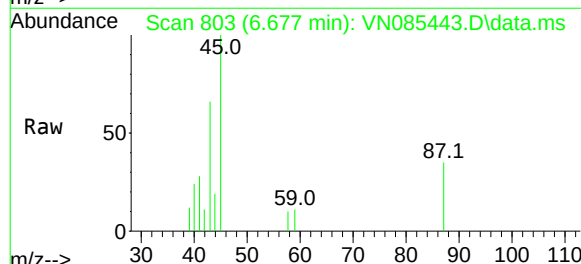
Ion Ratio Lower Upper

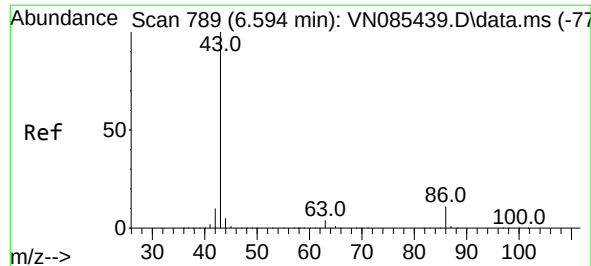
45 100

43 65.9 45.0 67.6

87 35.0 21.8 32.8#

59 11.3 10.2 15.2





#23

Vinyl Acetate

Concen: 4.090 ug/l m

RT: 6.606 min Scan# 791

Delta R.T. 0.012 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 18526

Ion Ratio Lower Upper

43 100

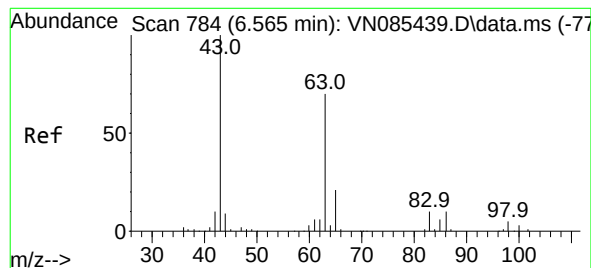
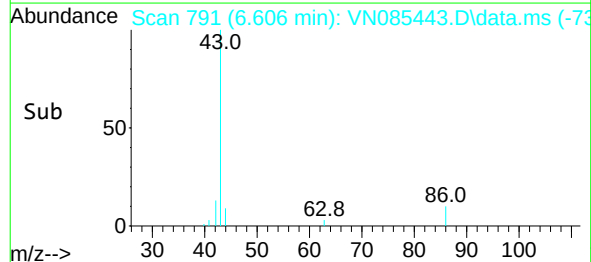
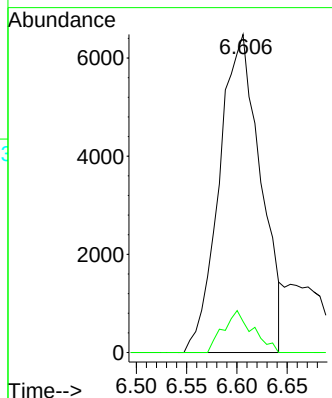
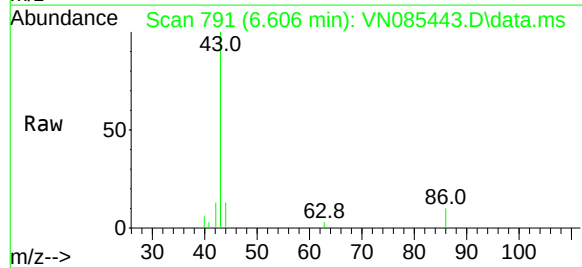
86 9.8 8.4 12.6

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#24

1,1-Dichloroethane

Concen: 1.022 ug/l m

RT: 6.583 min Scan# 787

Delta R.T. 0.018 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

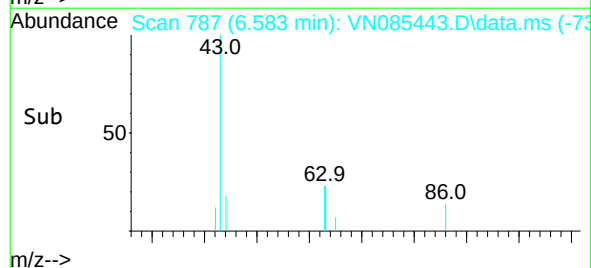
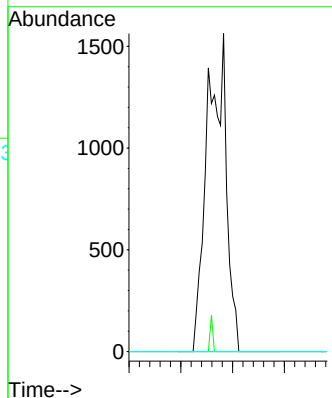
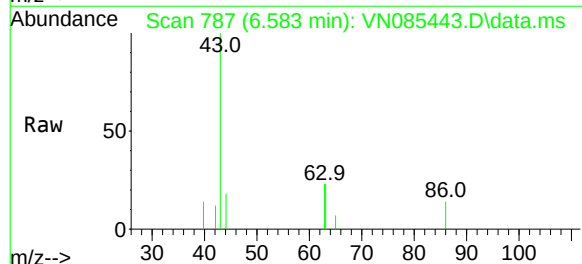
Tgt Ion: 63 Resp: 4020

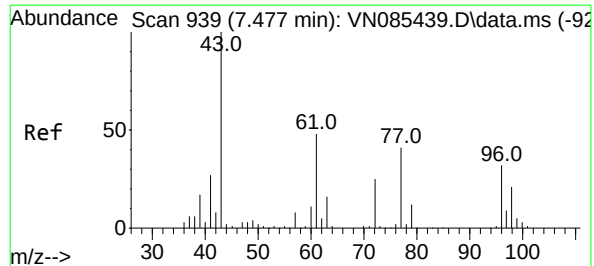
Ion Ratio Lower Upper

63 100

98 0.0 3.3 9.8#

100 0.0 2.0 6.0#





#25

2-Butanone

Concen: 5.034 ug/l m

RT: 7.483 min Scan# 940

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 6448

Ion Ratio Lower Upper

43 100

72 18.0 20.2 30.4#

Instrument :

MSVOA_N

ClientSampleId :

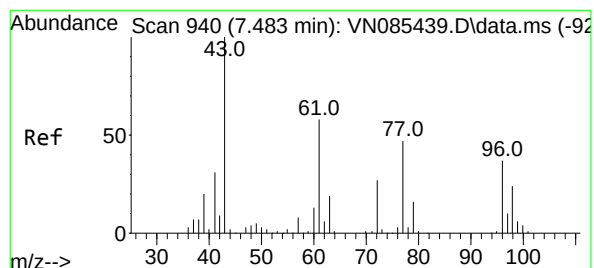
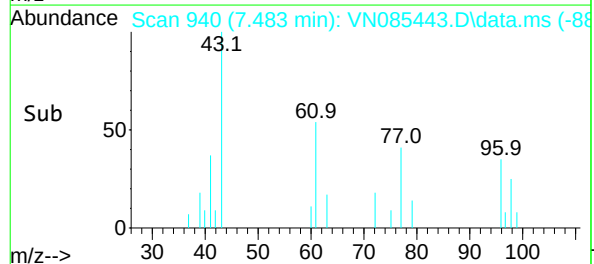
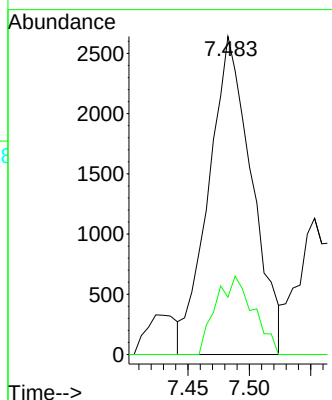
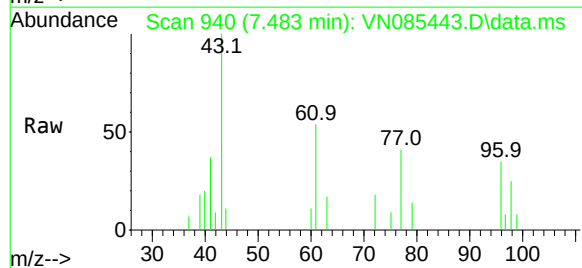
VSTDIC001

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#26

2,2-Dichloropropane

Concen: 0.976 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085443.D

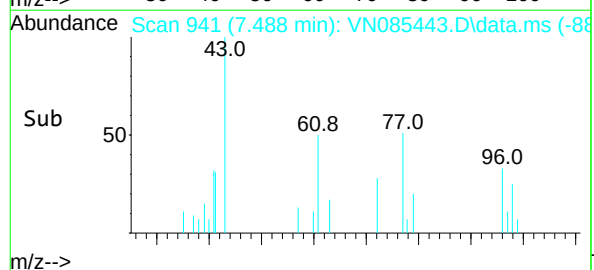
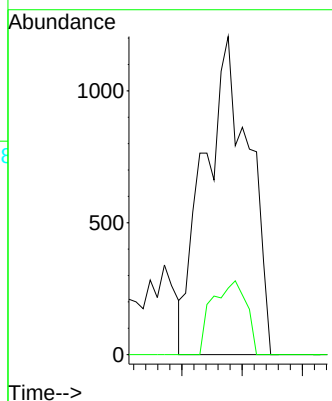
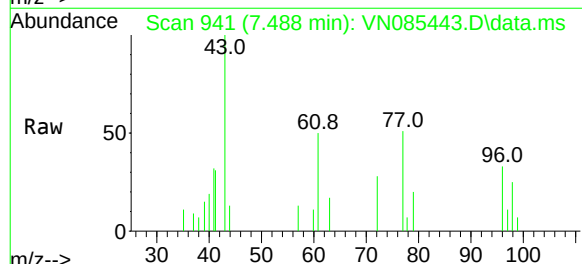
Acq: 14 Jan 2025 17:19

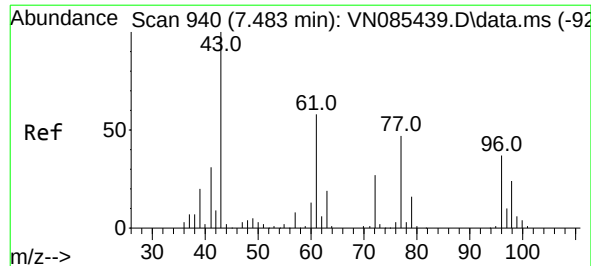
Tgt Ion: 77 Resp: 3104

Ion Ratio Lower Upper

77 100

97 17.7 10.7 32.1





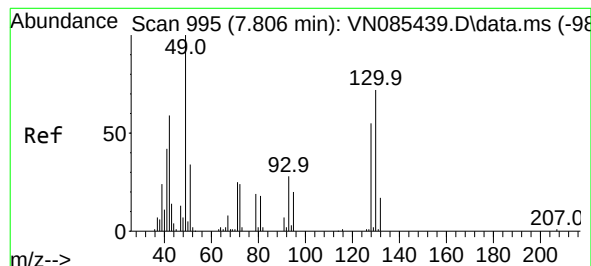
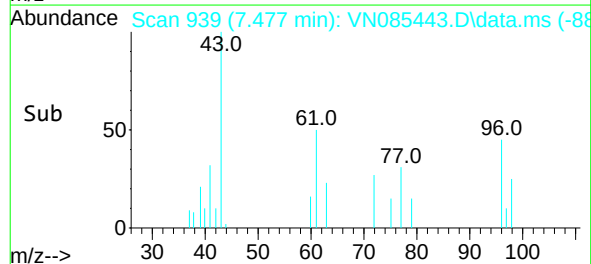
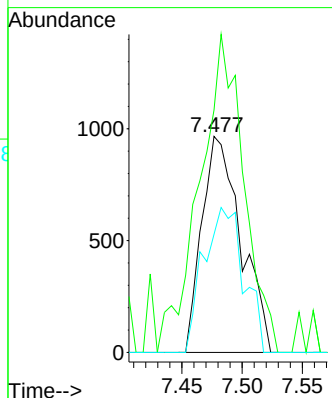
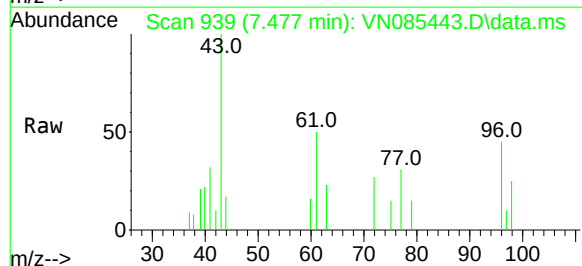
#27
cis-1,2-Dichloroethene
Concen: 0.969 ug/l
RT: 7.477 min Scan# 935
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tgt Ion	Ratio	Lower	Upper
96	100		
61	166.1	0.0	311.8
98	68.7	0.0	126.0

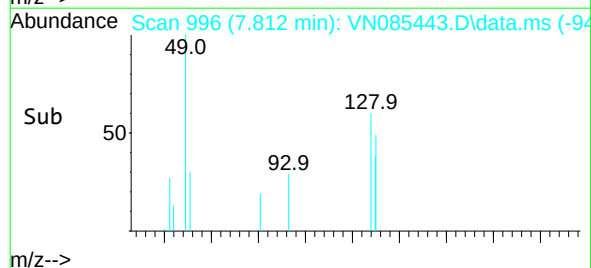
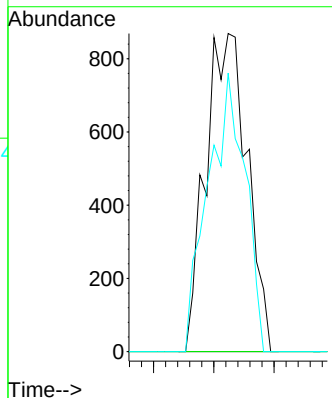
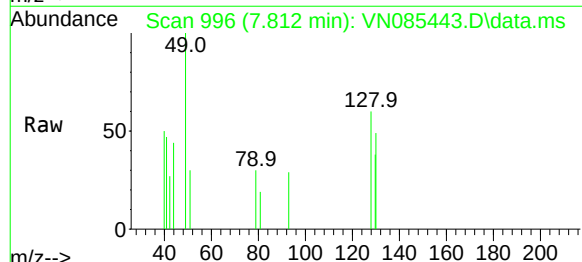
Manual Integrations
APPROVED

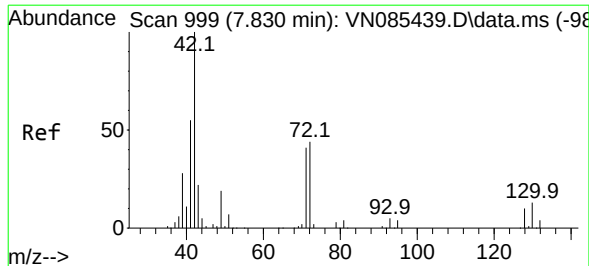
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#28
Bromochloromethane
Concen: 1.138 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.4
130	78.0	55.0	82.4





#29

Tetrahydrofuran

Concen: 4.548 ug/l

RT: 7.835 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

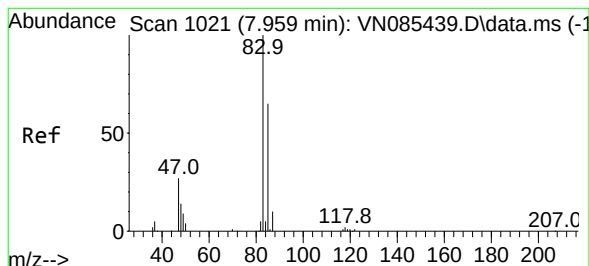
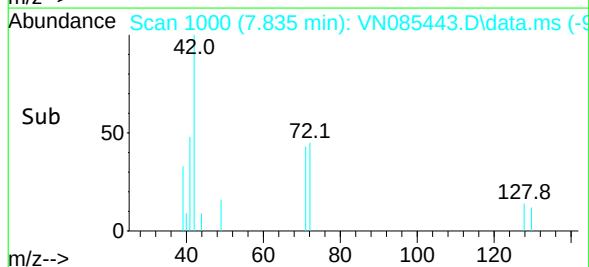
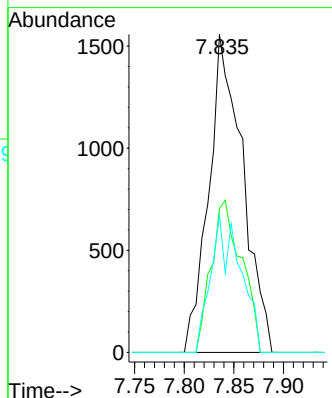
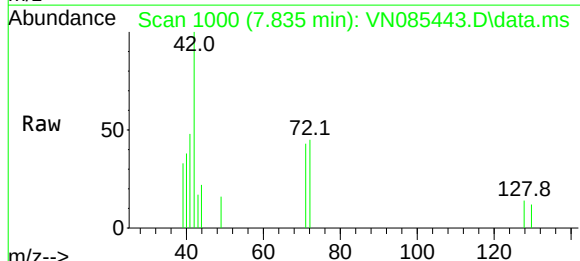
VSTDIC001

Tgt Ion:	42	Resp:	3693
Ion	Ratio	Lower	Upper
42	100		
72	43.1	34.2	51.2
71	37.9	32.5	48.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#30

Chloroform

Concen: 1.045 ug/l

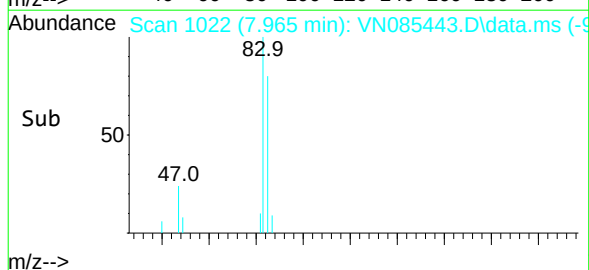
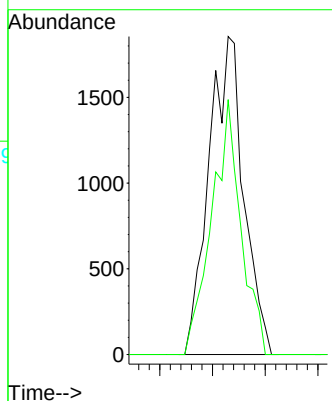
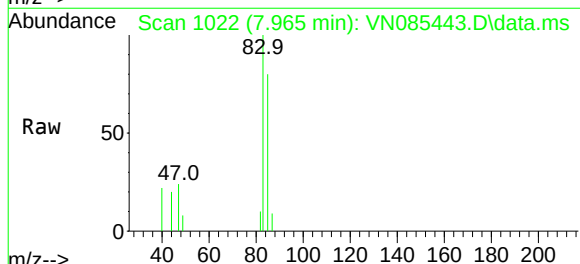
RT: 7.965 min Scan# 1022

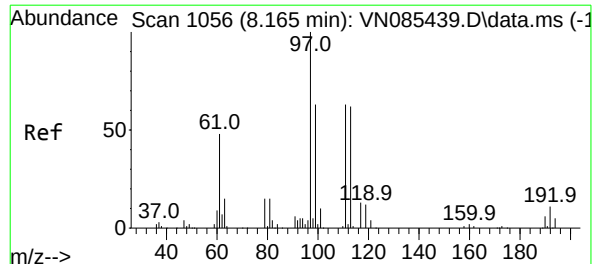
Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

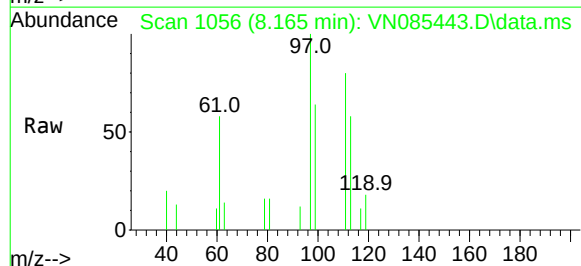
Tgt Ion:	83	Resp:	4250
Ion	Ratio	Lower	Upper
83	100		
85	80.2	51.8	77.6





#32
1,1,1-Trichloroethane
Concen: 1.031 ug/l
RT: 8.165 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

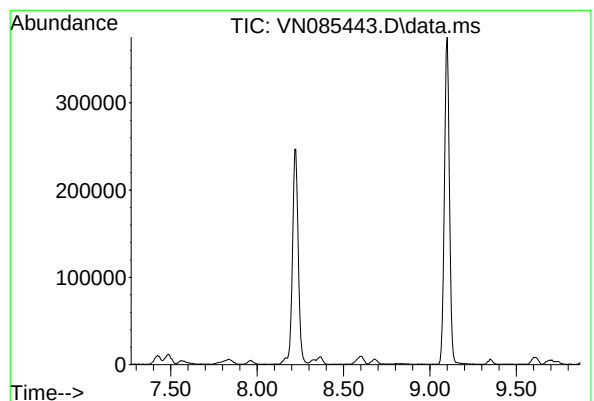
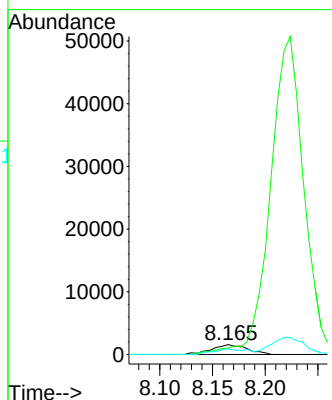
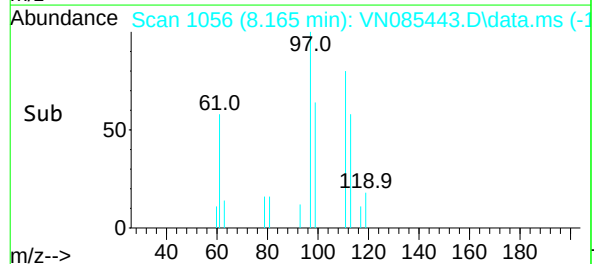
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 97 Resp: 3678
Ion Ratio Lower Upper
97 100
99 0.0 49.8 74.6#
61 52.2 41.4 62.2

Manual Integrations
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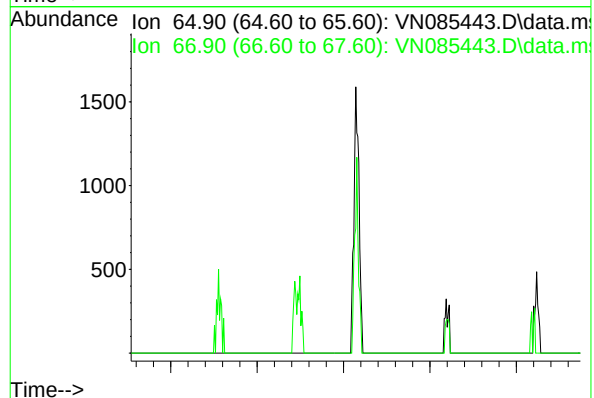
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

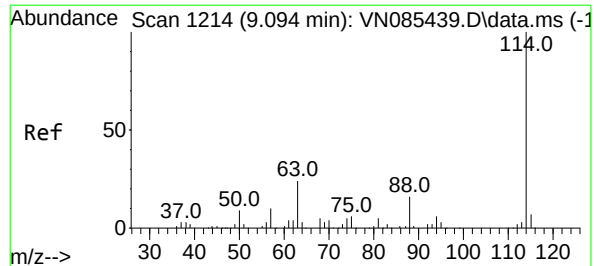


#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 8.57 min

Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 65
Sig Exp Ratio
65 100
67 50.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 12

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:114 Resp: 302938

Ion Ratio Lower Upper

114 100

63 22.3 0.0 47.6

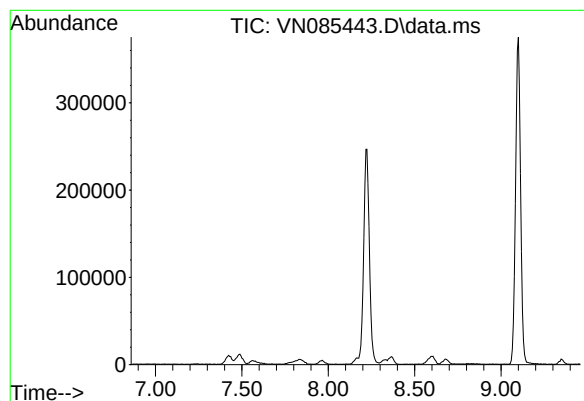
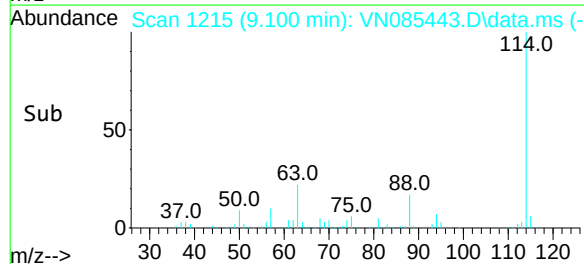
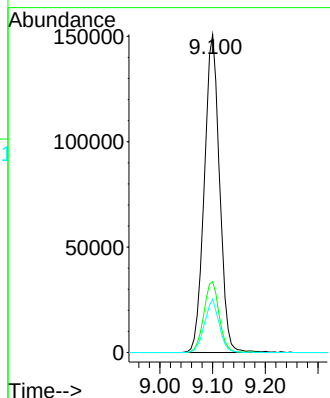
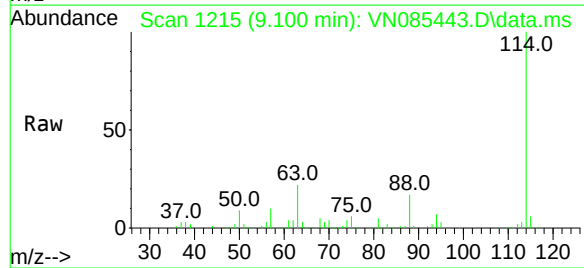
88 16.8 0.0 32.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 8.16 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

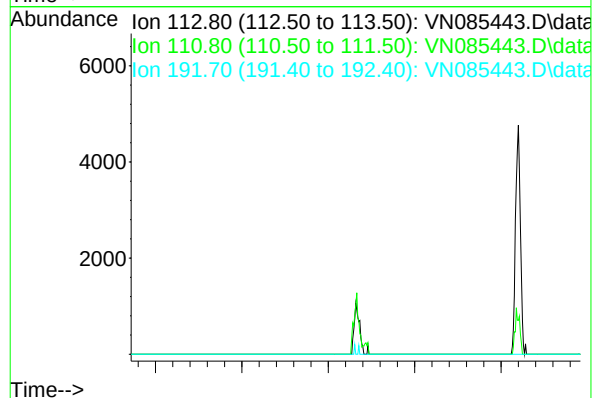
Tgt Ion: 113

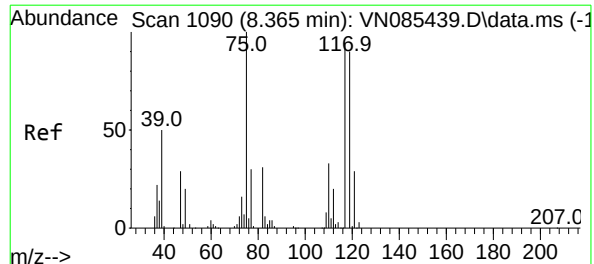
Sig Exp Ratio

113 100

111 103.4

192 17.9





#36

1,1-Dichloropropene

Concen: 1.046 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 75 Resp: 3084

Ion Ratio Lower Upper

75 100

110 30.1 16.5 49.5

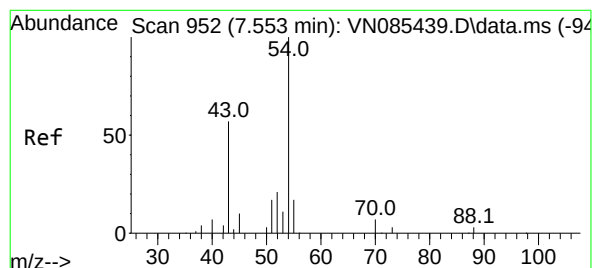
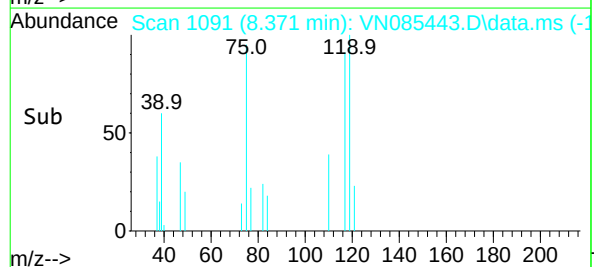
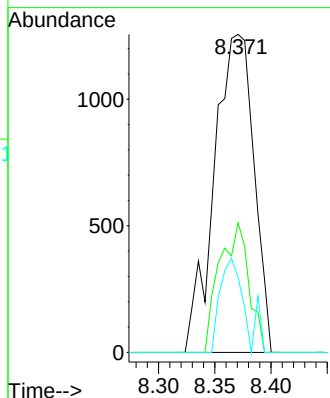
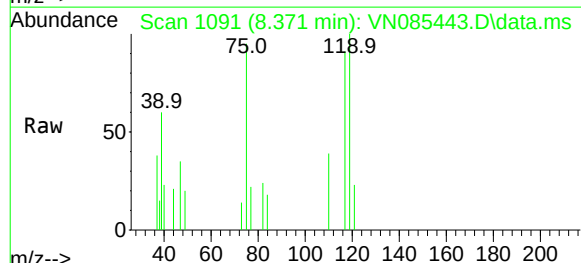
77 15.9 24.4 36.6#

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#37

Ethyl Acetate

Concen: 1.026 ug/l m

RT: 7.577 min Scan# 956

Delta R.T. 0.023 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

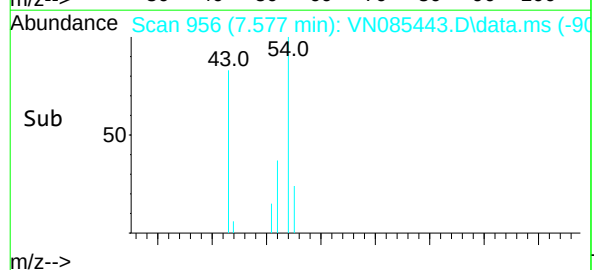
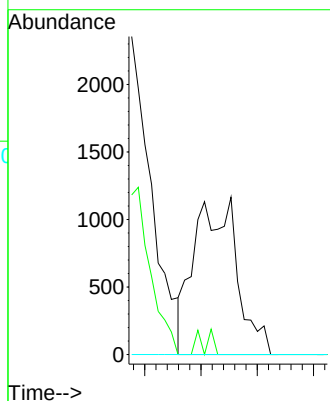
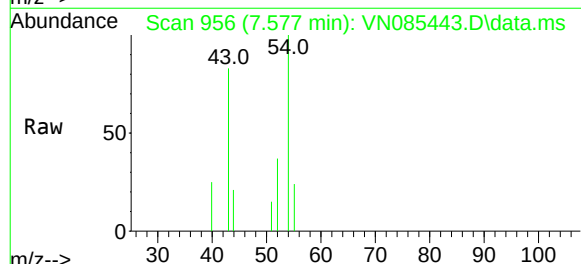
Tgt Ion: 43 Resp: 3056

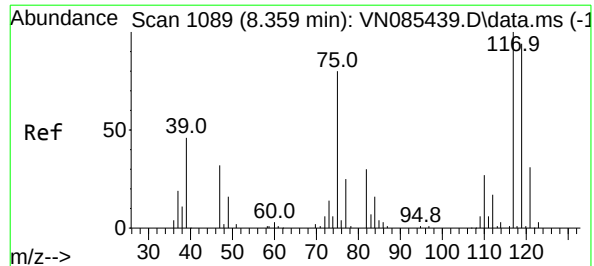
Ion Ratio Lower Upper

43 100

61 4.3 10.9 16.3#

70 0.0 7.5 11.3#





#38

Carbon Tetrachloride

Concen: 1.018 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 117 Resp: 3436

Ion Ratio Lower Upper

117 100

119 106.6 75.4 113.2

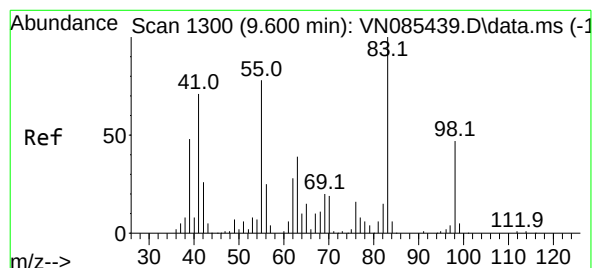
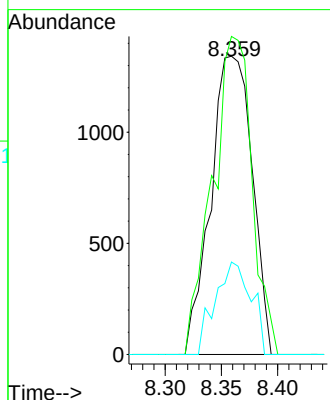
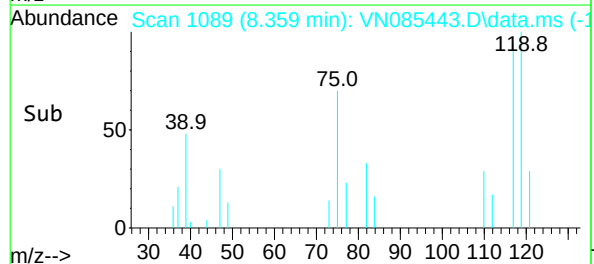
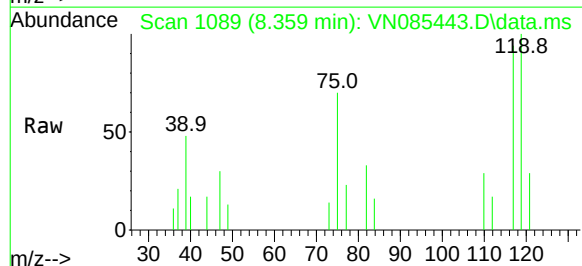
121 31.0 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#39

Methylcyclohexane

Concen: 0.867 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

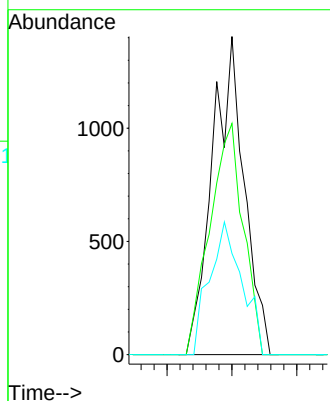
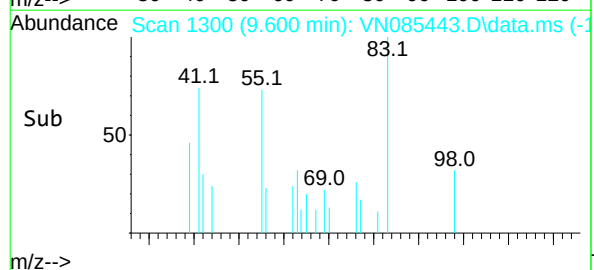
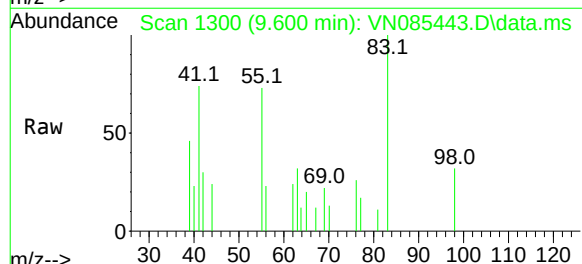
Tgt Ion: 83 Resp: 2403

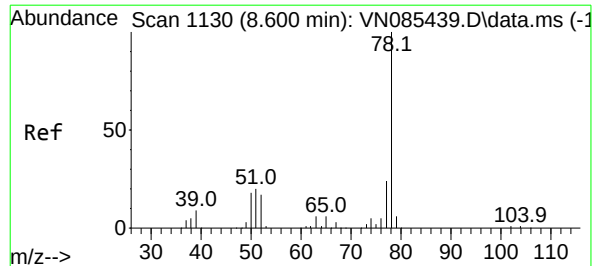
Ion Ratio Lower Upper

83 100

55 72.7 62.6 94.0

98 31.8 37.7 56.5#





#40

Benzene

Concen: 0.957 ug/l

RT: 8.606 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 78 Resp: 8480

Ion Ratio Lower Upper

78 100

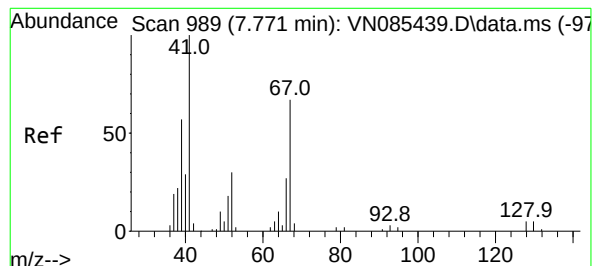
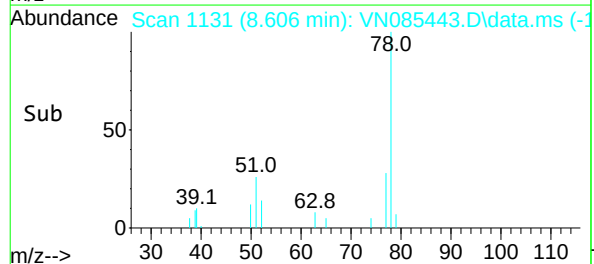
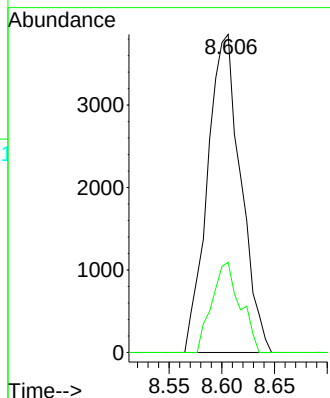
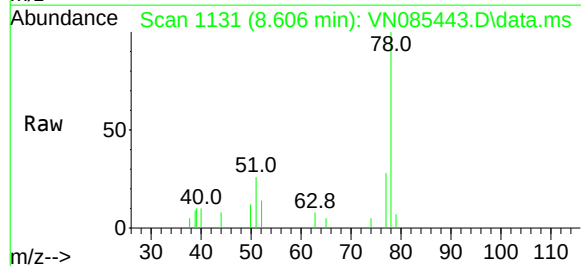
77 28.3 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#41

Methacrylonitrile

Concen: 0.941 ug/l

RT: 7.771 min Scan# 989

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion: 41 Resp: 1458

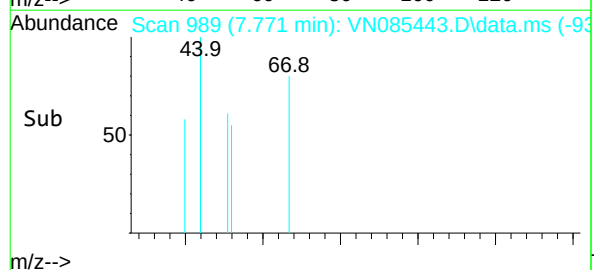
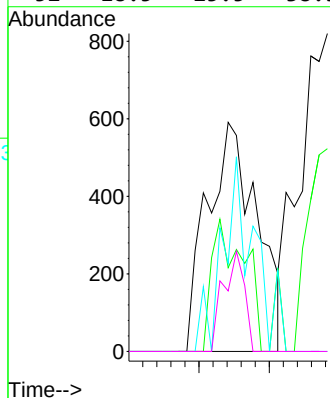
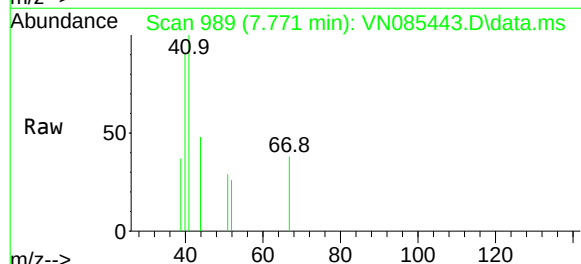
Ion Ratio Lower Upper

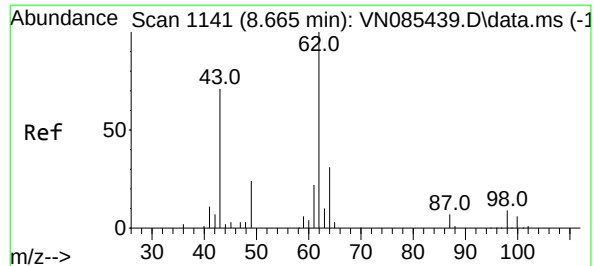
41 100

39 37.6 46.0 69.0#

67 53.8 57.4 86.2#

52 18.5 25.5 38.3#





#42

1,2-Dichloroethane

Concen: 0.938 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 62 Resp: 3131

Ion Ratio Lower Upper

62 100

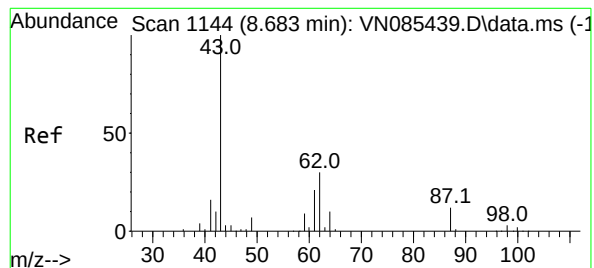
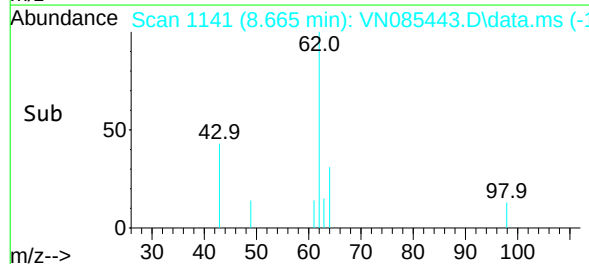
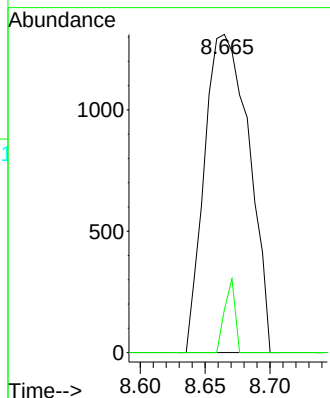
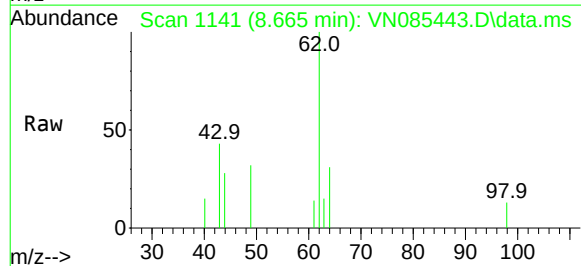
98 5.4 0.0 17.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#43

Isopropyl Acetate

Concen: 1.007 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

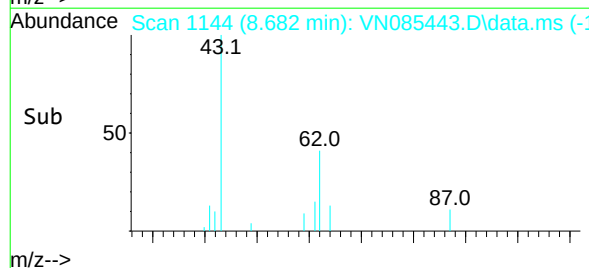
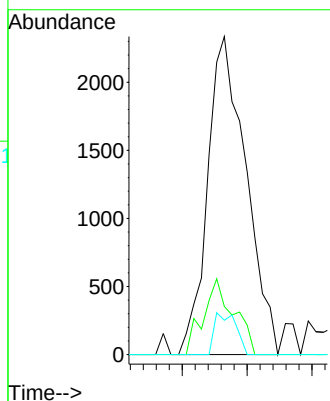
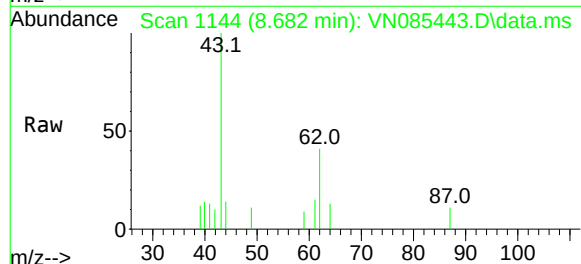
Tgt Ion: 43 Resp: 4803

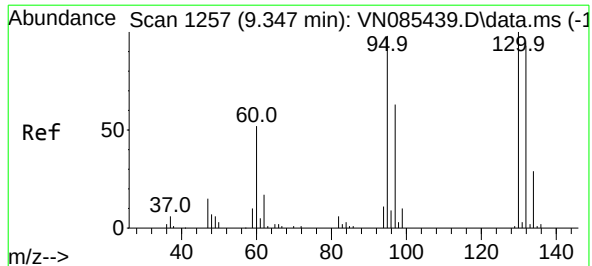
Ion Ratio Lower Upper

43 100

61 18.9 20.7 31.1#

87 7.3 9.8 14.8#





#44

Trichloroethene

Concen: 1.034 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.000 min

Lab File: VN085443.D

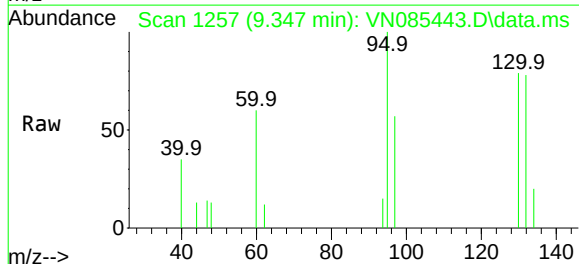
Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001



Tgt Ion:130 Resp: 2133

Ion Ratio Lower Upper

130 100

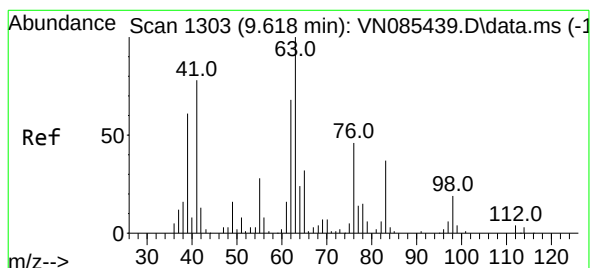
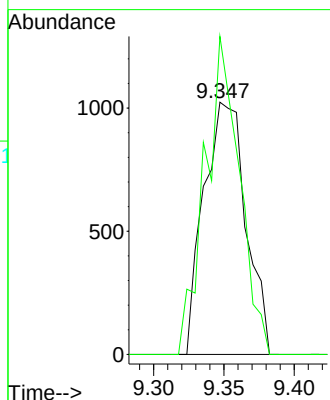
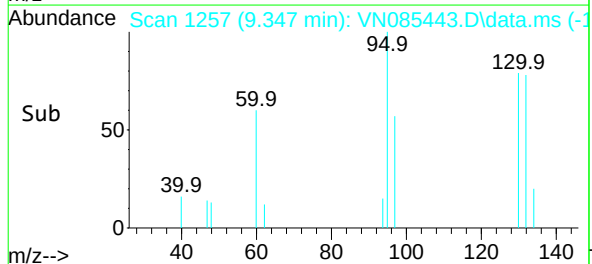
95 126.1 0.0 195.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#45

1,2-Dichloropropane

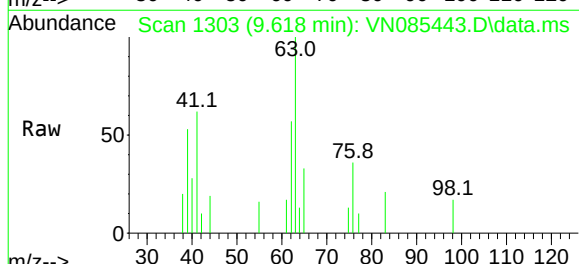
Concen: 0.992 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

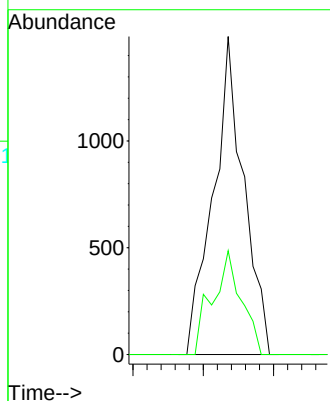
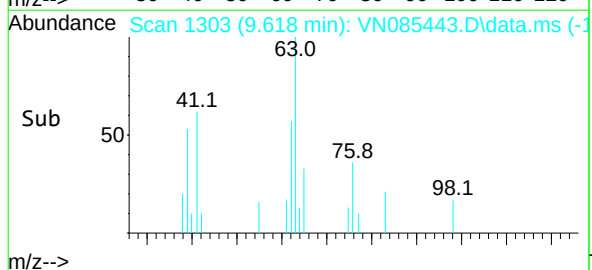


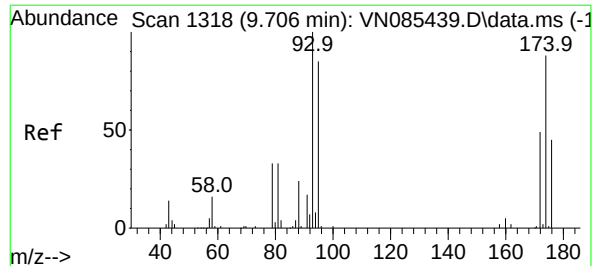
Tgt Ion: 63 Resp: 2246

Ion Ratio Lower Upper

63 100

65 32.6 25.6 38.4





#46

Dibromomethane

Concen: 1.083 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085443.D

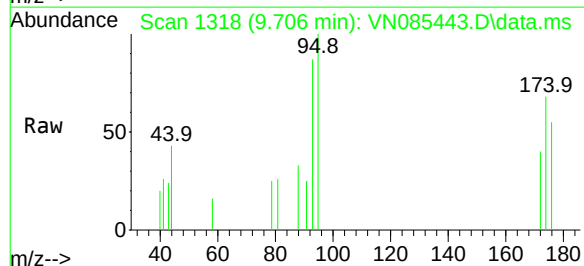
Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

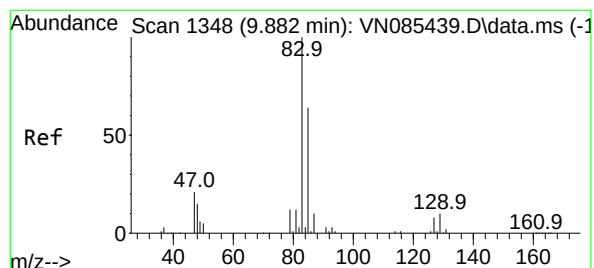
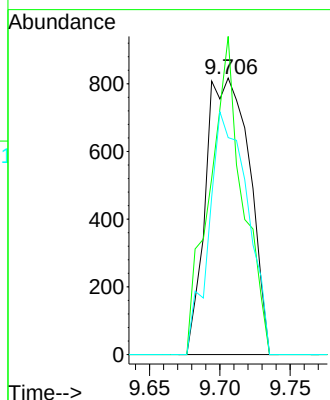
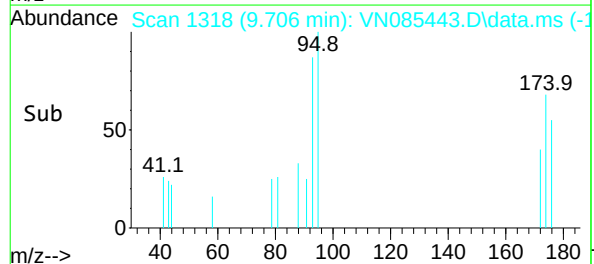
VSTDIC001



Tgt Ion:	93	Resp:	1769
Ion	Ratio	Lower	Upper
93	100		
95	86.5	64.7	97.1
174	77.4	69.0	103.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#47

Bromodichloromethane

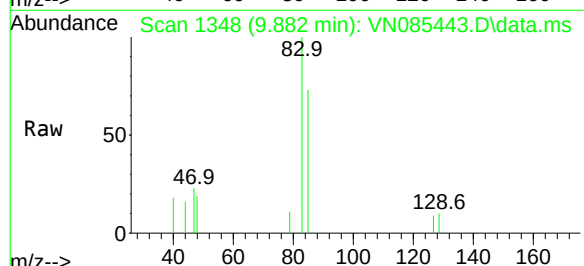
Concen: 0.882 ug/l

RT: 9.882 min Scan# 1348

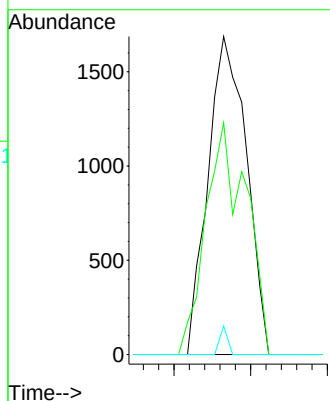
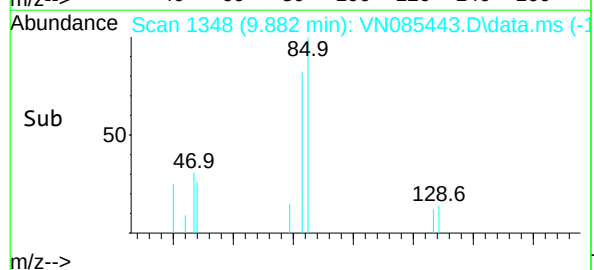
Delta R.T. 0.000 min

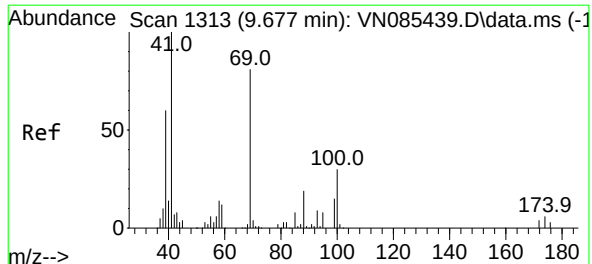
Lab File: VN085443.D

Acq: 14 Jan 2025 17:19



Tgt Ion:	83	Resp:	2935
Ion	Ratio	Lower	Upper
83	100		
85	72.9	51.2	76.8
127	9.0	6.5	9.7





#48

Methyl methacrylate

Concen: 0.878 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 41 Resp: 1886

Ion Ratio Lower Upper

41 100

69 76.2 64.7 97.1

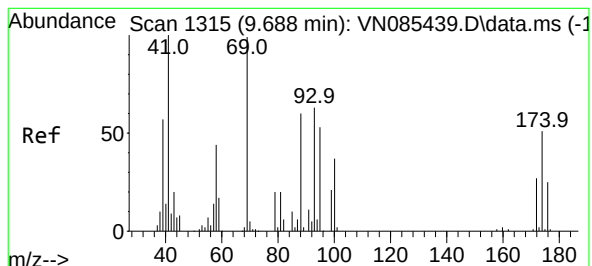
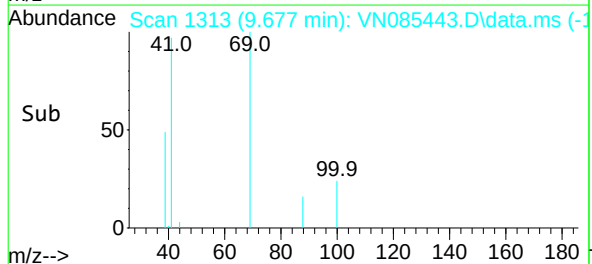
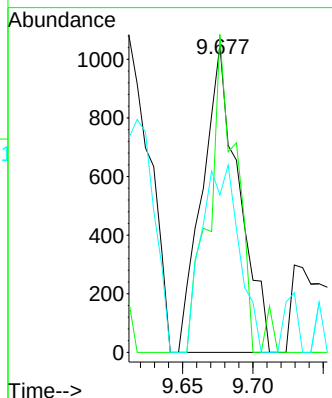
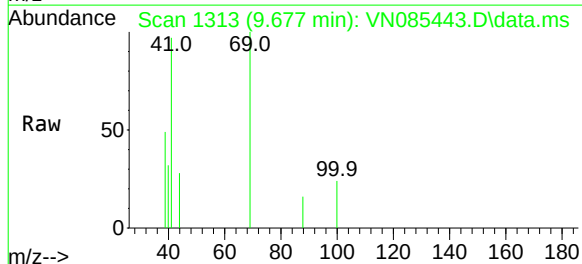
39 62.8 49.0 73.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#49

1,4-Dioxane

Concen: 18.616 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

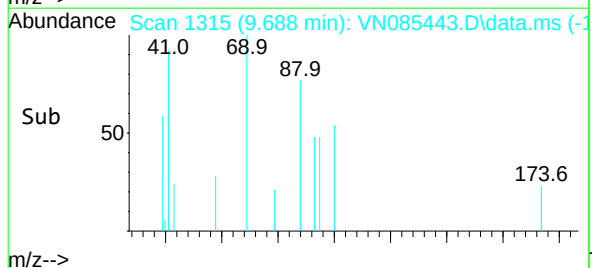
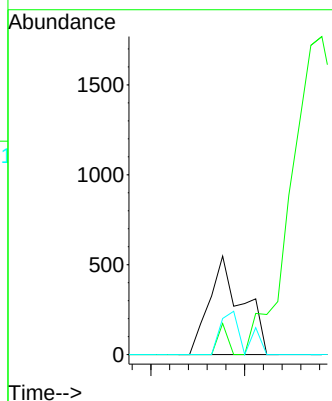
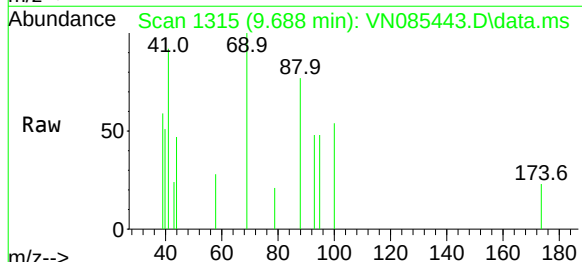
Tgt Ion: 88 Resp: 673

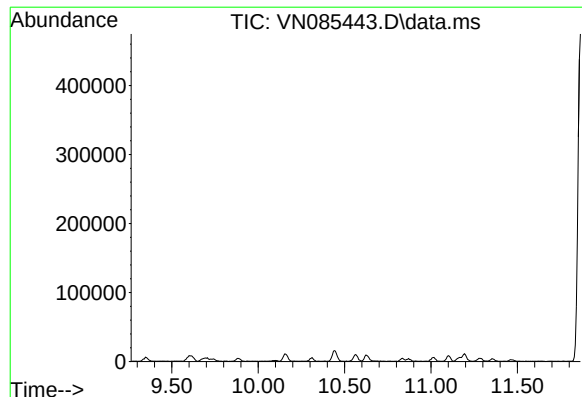
Ion Ratio Lower Upper

88 100

43 0.0 26.6 39.8#

58 31.1 59.5 89.3#





#50

Toluene-d8

Concen: 0.000 ug/l

Expected RT: 10.56 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion: 98

Sig Exp Ratio

98	100
100	65.3

Instrument :

MSVOA_N

ClientSampleId :

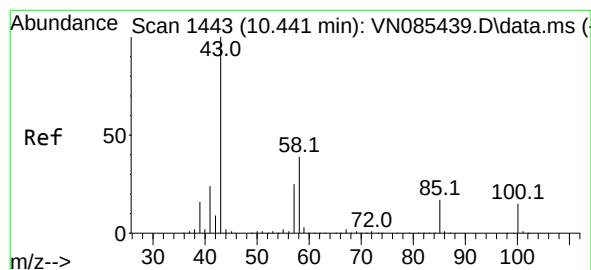
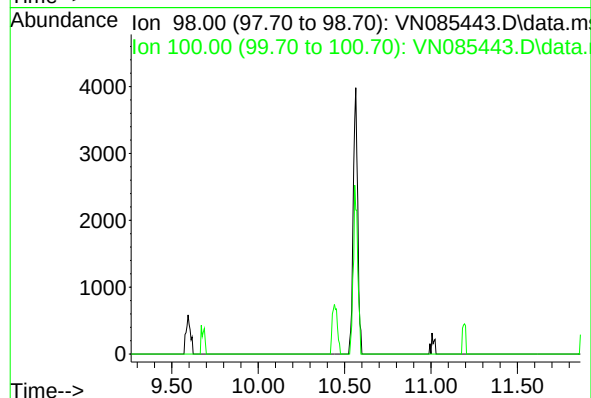
VSTDICC001

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#51

4-Methyl-2-Pentanone

Concen: 4.163 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. 0.000 min

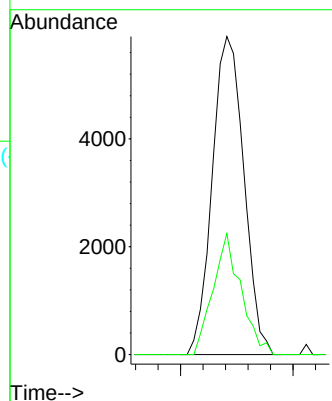
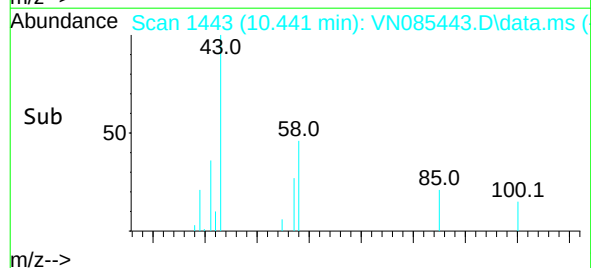
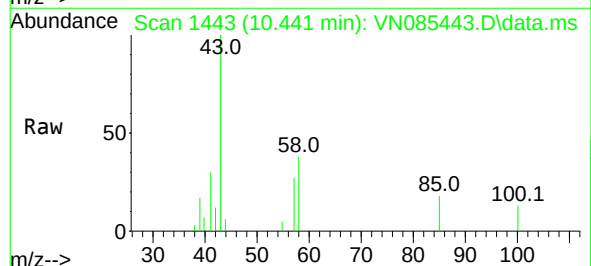
Lab File: VN085443.D

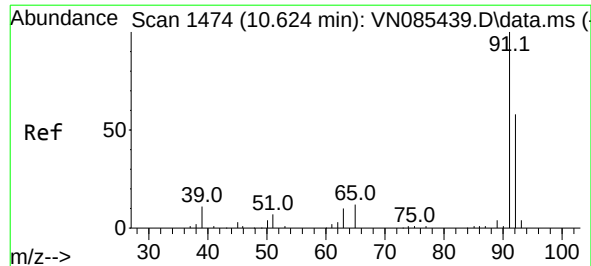
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 11523

Ion Ratio Lower Upper

43	100		
58	33.6	30.5	45.7





#52

Toluene

Concen: 0.814 ug/l

RT: 10.618 min Scan# 1473

Delta R.T. -0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 92 Resp: 4180

Ion Ratio Lower Upper

92 100

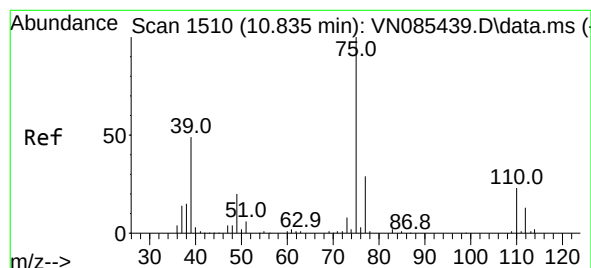
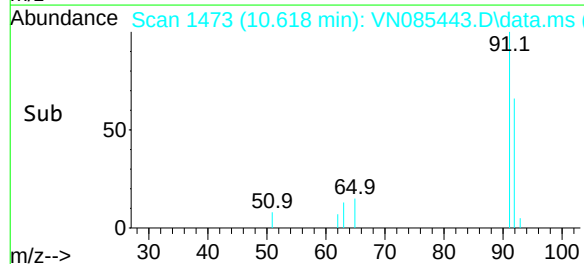
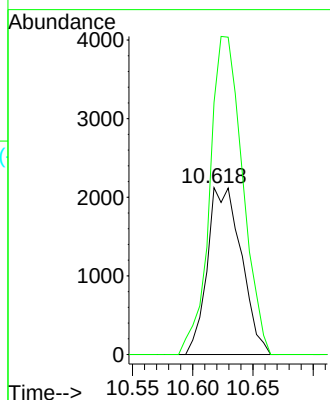
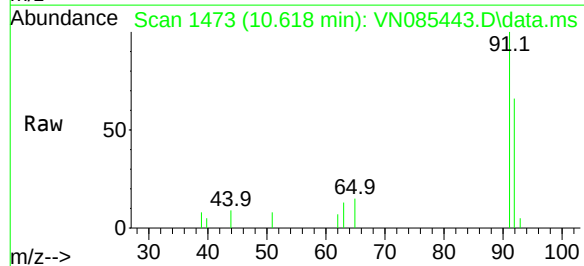
91 183.9 139.2 208.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#53

t-1,3-Dichloropropene

Concen: 0.802 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VN085443.D

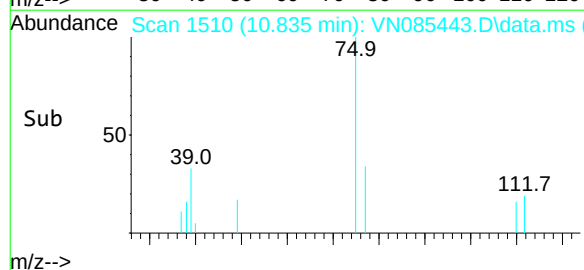
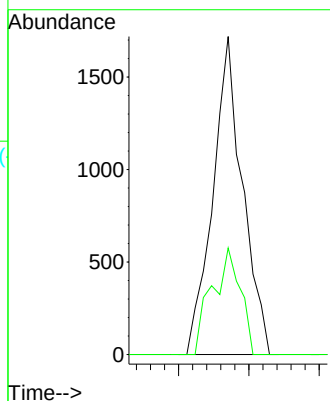
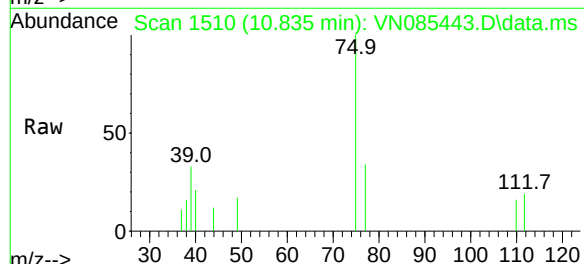
Acq: 14 Jan 2025 17:19

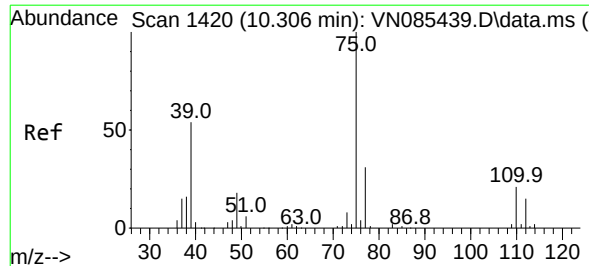
Tgt Ion: 75 Resp: 2522

Ion Ratio Lower Upper

75 100

77 33.5 23.5 35.3





#54

cis-1,3-Dichloropropene

Concen: 0.811 ug/l

RT: 10.312 min Scan# 14

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 75 Resp: 2725

Ion Ratio Lower Upper

75 100

77 39.0 25.0 37.4#

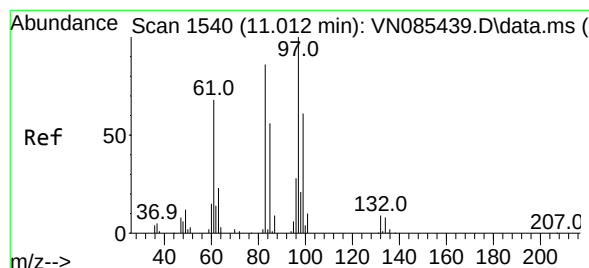
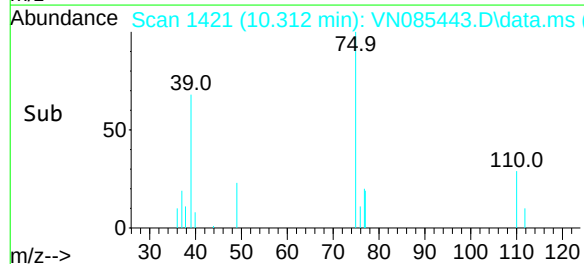
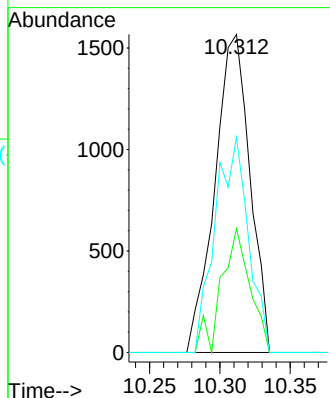
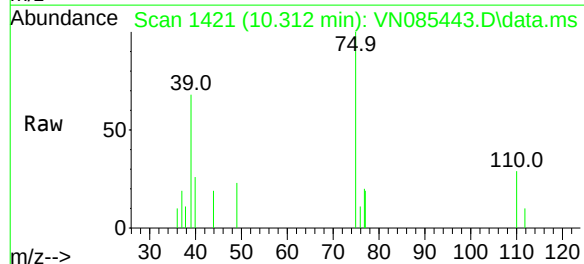
39 67.6 43.1 64.7#

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#55

1,1,2-Trichloroethane

Concen: 0.935 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion: 97 Resp: 1901

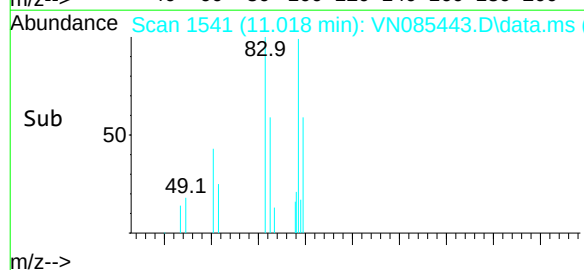
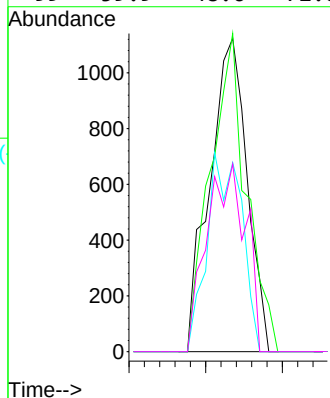
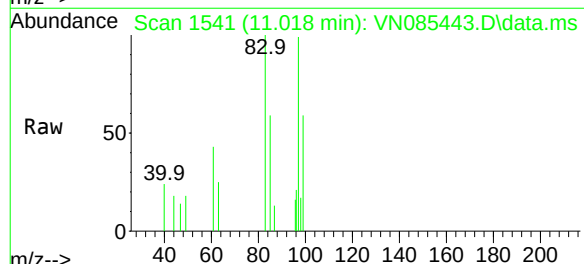
Ion Ratio Lower Upper

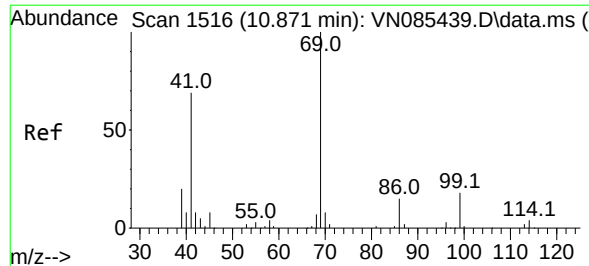
97 100

83 101.5 69.0 103.6

85 60.3 44.6 66.8

99 59.9 48.6 72.8





#56

Ethyl methacrylate

Concen: 2.471 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 69 Resp: 1923

Ion Ratio Lower Upper

69 100

41 74.4 54.6 82.0

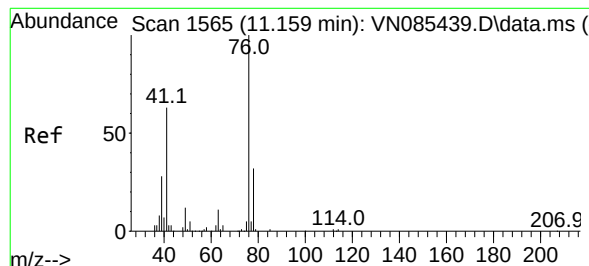
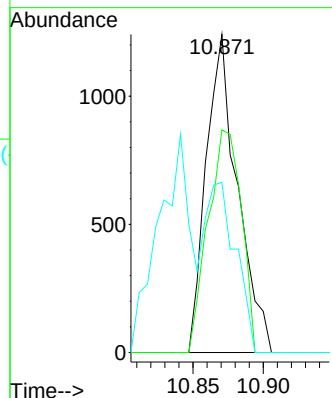
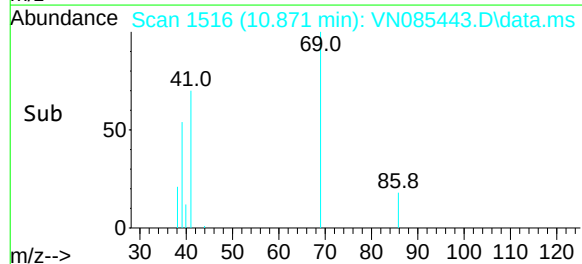
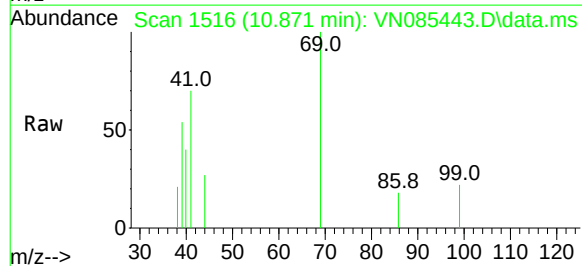
39 52.4 32.4 48.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#57

1,3-Dichloropropane

Concen: 0.881 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. 0.006 min

Lab File: VN085443.D

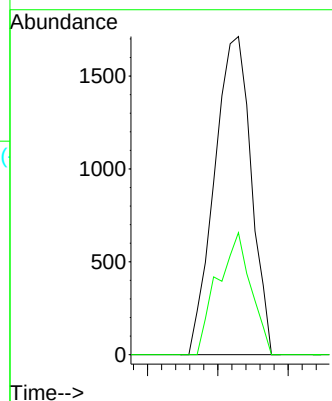
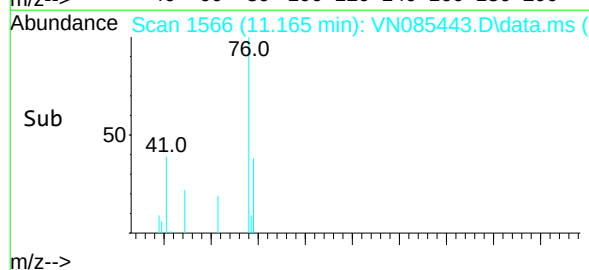
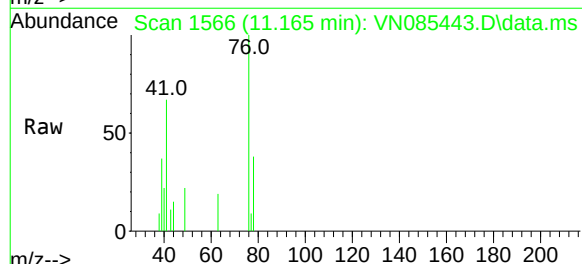
Acq: 14 Jan 2025 17:19

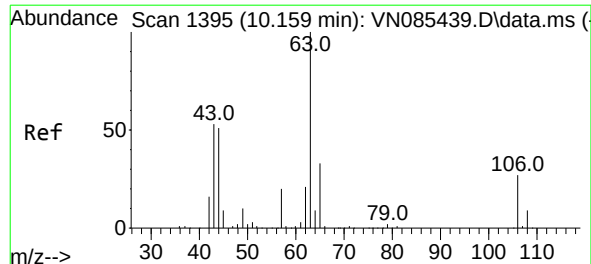
Tgt Ion: 76 Resp: 3113

Ion Ratio Lower Upper

76 100

78 34.9 25.6 38.4





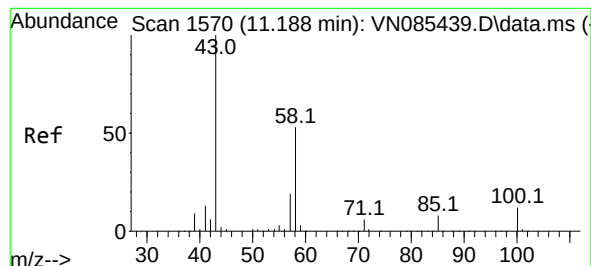
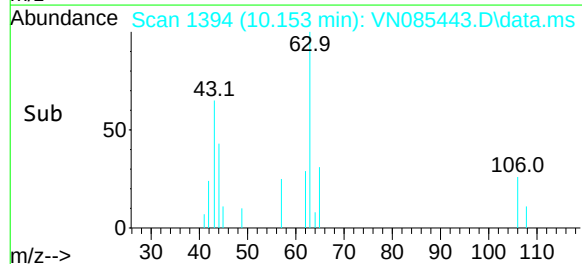
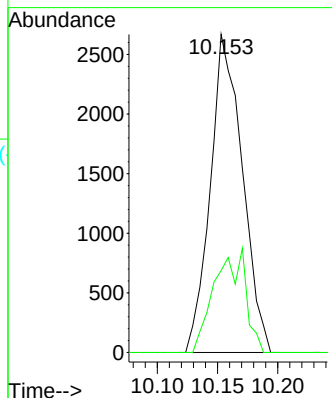
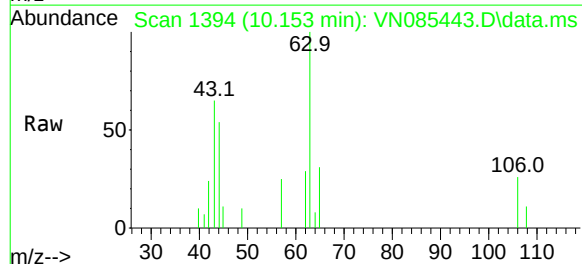
#58
2-Chloroethyl Vinyl ether
Concen: 3.822 ug/l
RT: 10.153 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tgt Ion: 63 Resp: 4929
Ion Ratio Lower Upper
63 100
106 31.7 21.6 32.4

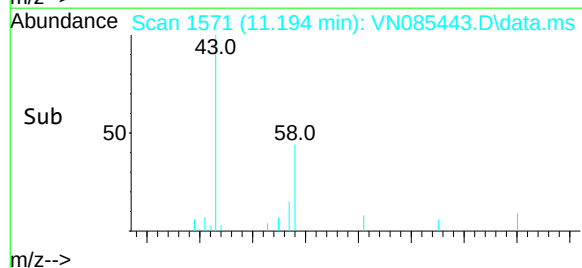
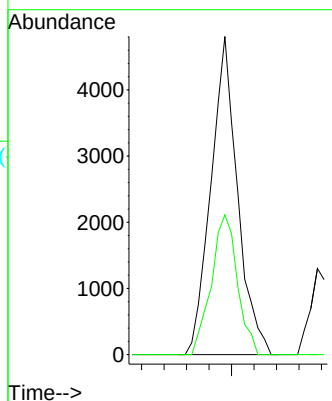
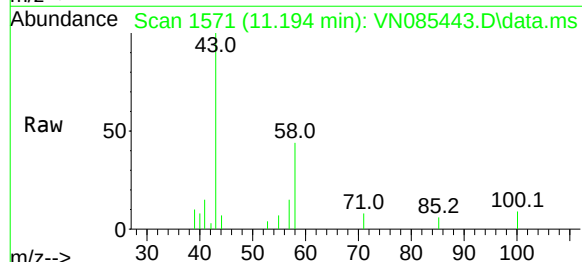
Manual Integrations
APPROVED

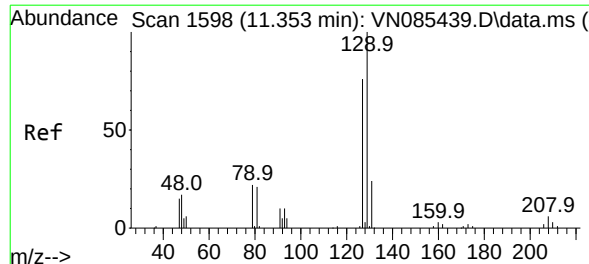
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#59
2-Hexanone
Concen: 4.058 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 7905
Ion Ratio Lower Upper
43 100
58 42.9 26.2 78.6





#60

Dibromochloromethane

Concen: 0.953 ug/l

RT: 11.359 min Scan# 1598

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion:129 Resp: 2339

Ion Ratio Lower Upper

129 100

127 78.9 38.6 115.8

Instrument :

MSVOA_N

ClientSampleId :

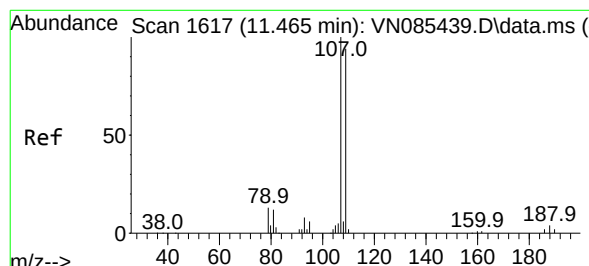
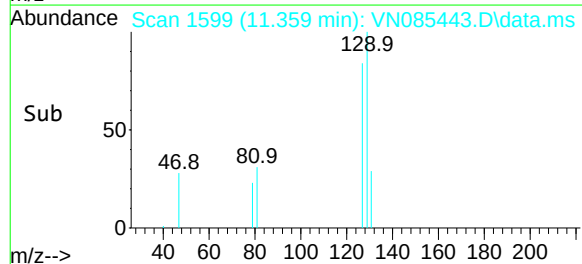
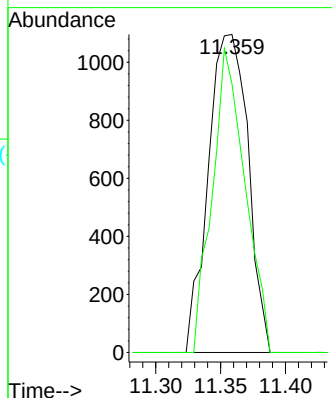
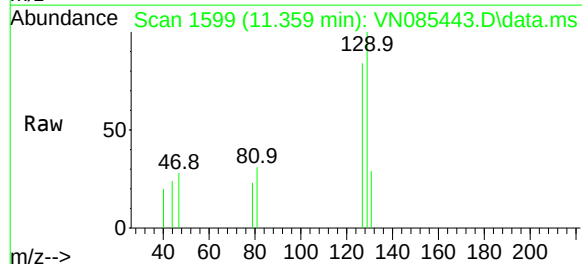
VSTDIC001

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#61

1,2-Dibromoethane

Concen: 1.000 ug/l

RT: 11.465 min Scan# 1617

Delta R.T. -0.000 min

Lab File: VN085443.D

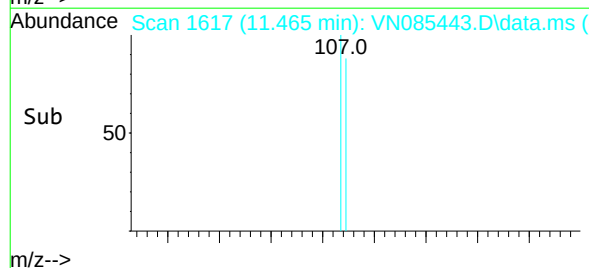
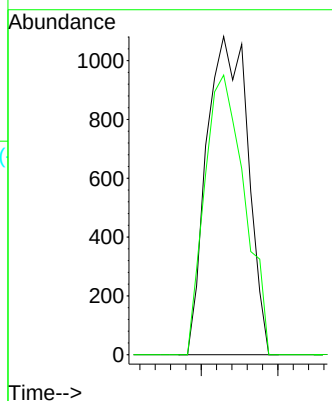
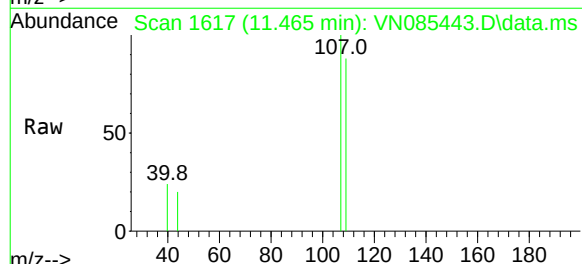
Acq: 14 Jan 2025 17:19

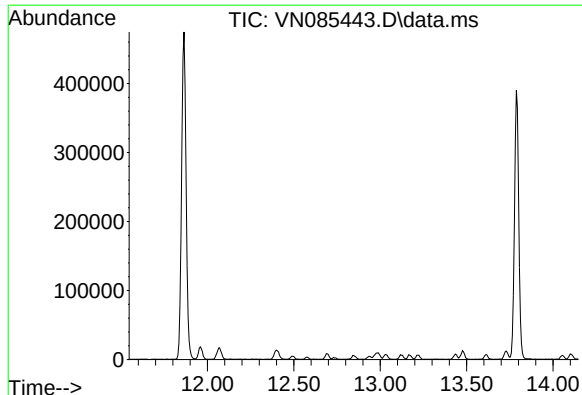
Tgt Ion:107 Resp: 2022

Ion Ratio Lower Upper

107 100

109 84.8 75.9 113.9





#62

4-Bromofluorobenzene

Concen: 0.000 ug/l

Expected RT: 12.85 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion: 95

Sig Exp Ratio

95 100

174 72.5

176 71.2

Instrument :

MSVOA_N

ClientSampleId :

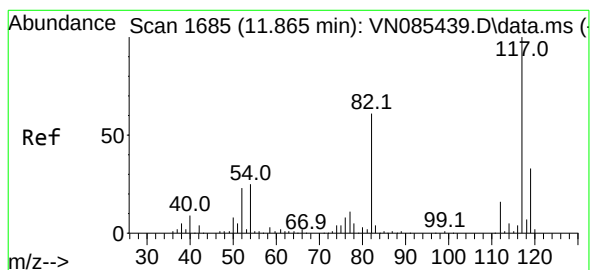
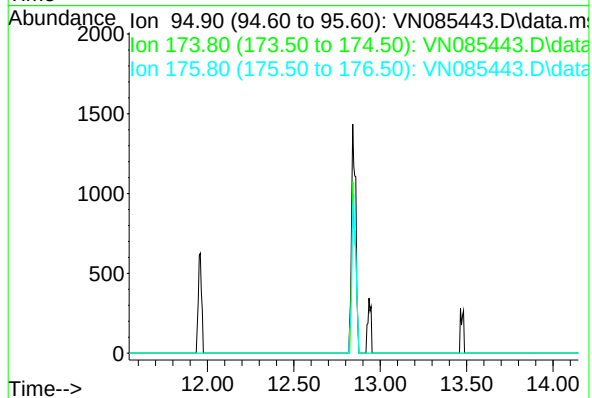
VSTDICC001

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

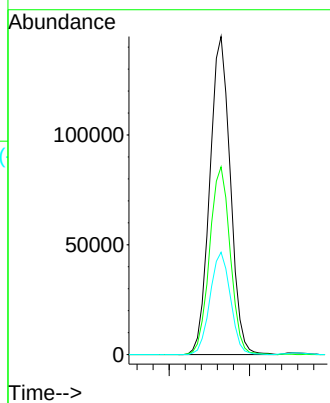
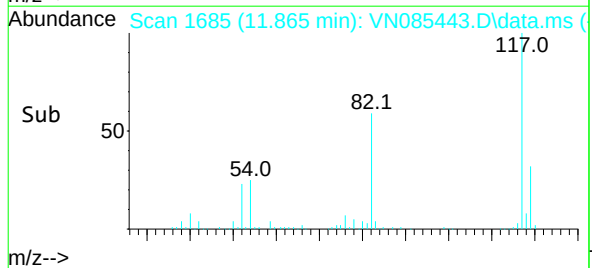
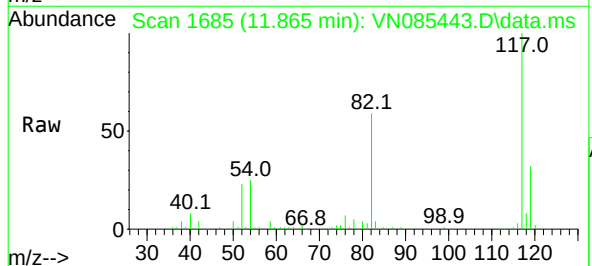
Tgt Ion:117 Resp: 256851

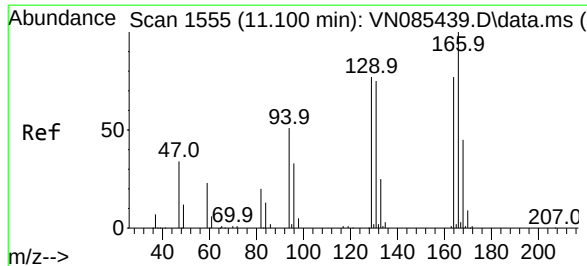
Ion Ratio Lower Upper

117 100

82 59.0 48.6 72.8

119 32.2 26.6 39.8





#64

Tetrachloroethene

Concen: 0.947 ug/l

RT: 11.106 min Scan# 1555

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:164 Resp: 1658

Ion Ratio Lower Upper

164 100

166 152.1 103.4 155.2

129 128.3 79.2 118.8#

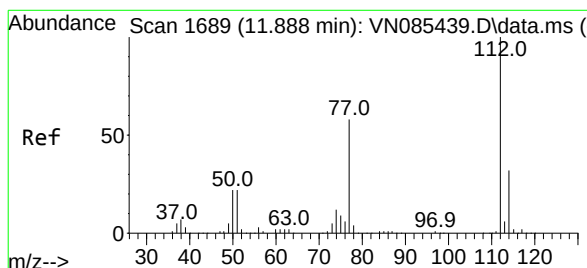
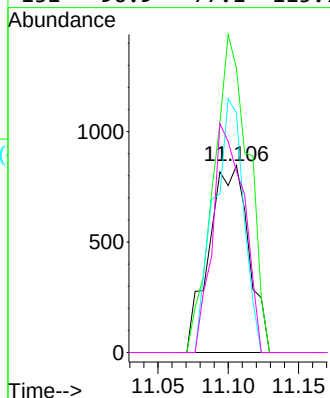
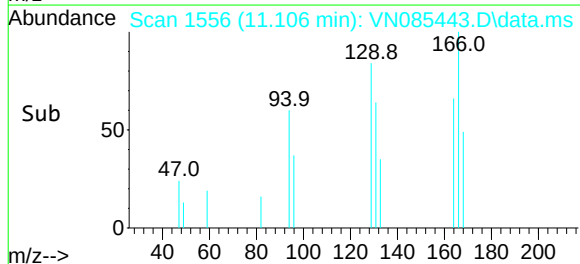
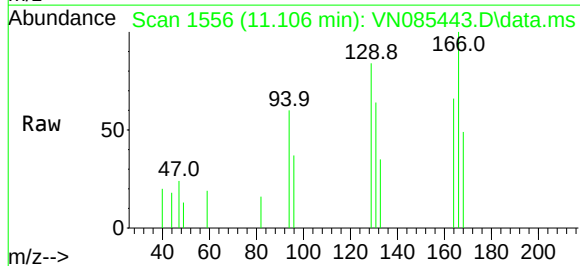
131 96.9 77.1 115.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#65

Chlorobenzene

Concen: 0.960 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN085443.D

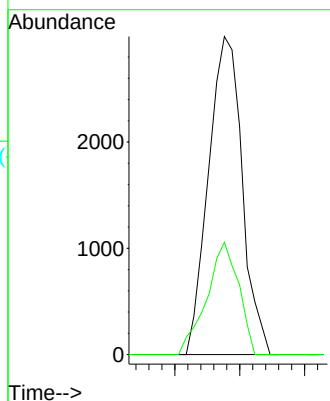
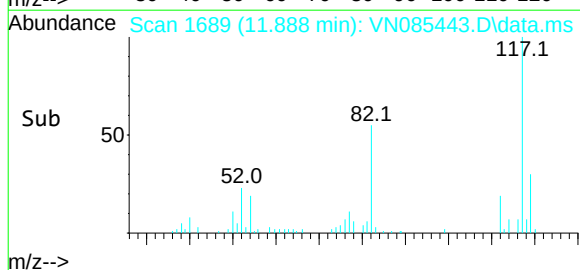
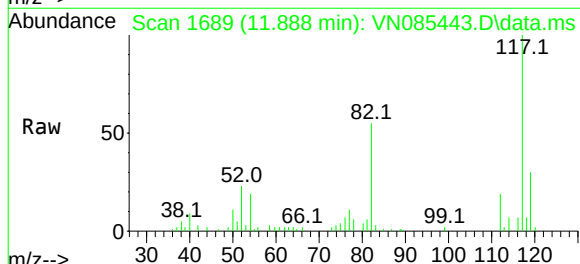
Acq: 14 Jan 2025 17:19

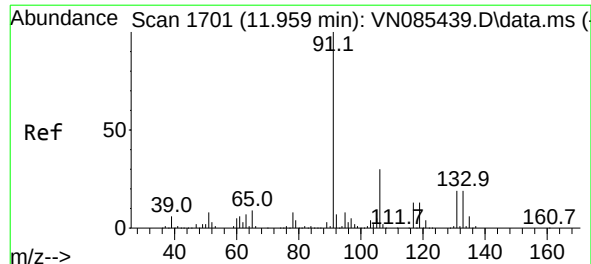
Tgt Ion:112 Resp: 5401

Ion Ratio Lower Upper

112 100

114 35.3 25.3 37.9





#66

1,1,1,2-Tetrachloroethane

Concen: 1.058 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

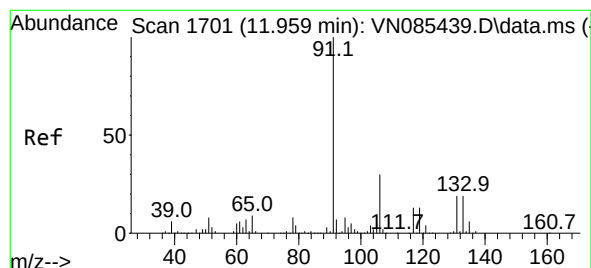
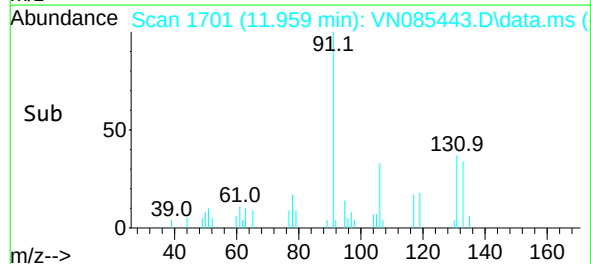
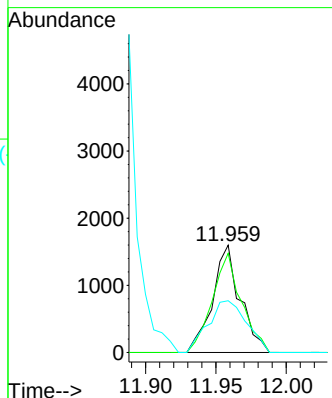
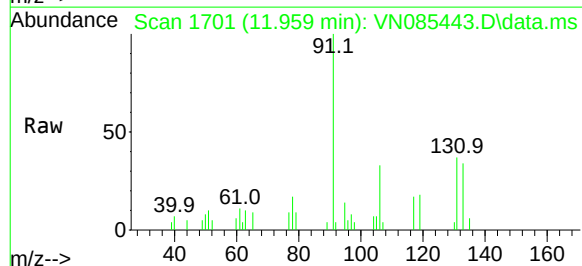
Tgt Ion:	131	Resp:	2185
Ion Ratio	Lower	Upper	
131	100		
133	97.7	47.4	142.3
119	0.0	33.1	99.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#67

Ethyl Benzene

Concen: 0.802 ug/l

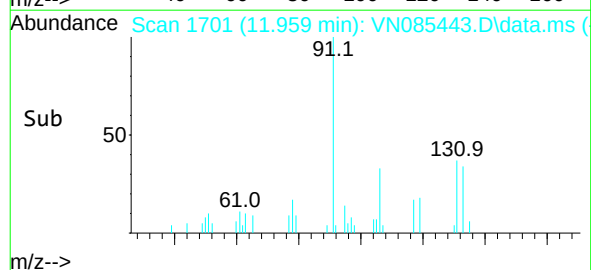
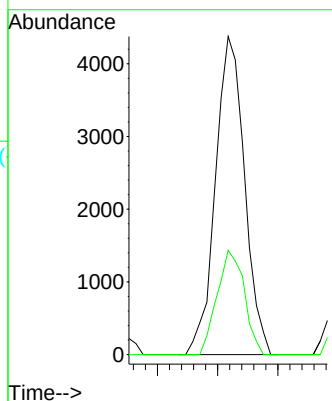
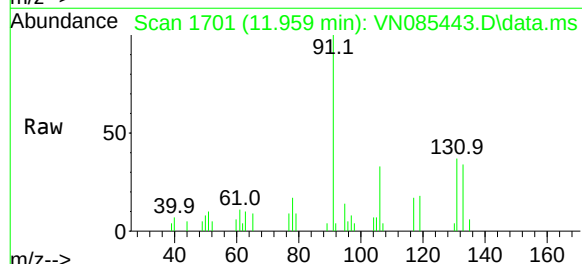
RT: 11.959 min Scan# 1701

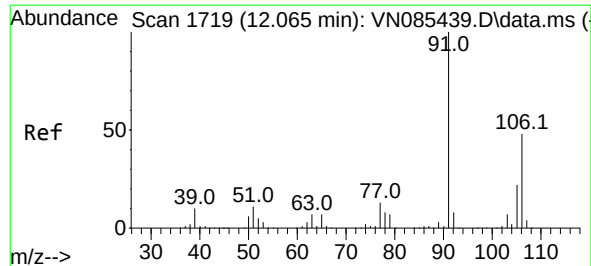
Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion:	91	Resp:	7347
Ion Ratio	Lower	Upper	
91	100		
106	32.8	23.8	35.8





#68

m/p-Xylenes

Concen: 1.494 ug/l

RT: 12.070 min Scan# 1719

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:106 Resp: 5059

Ion Ratio Lower Upper

106 100

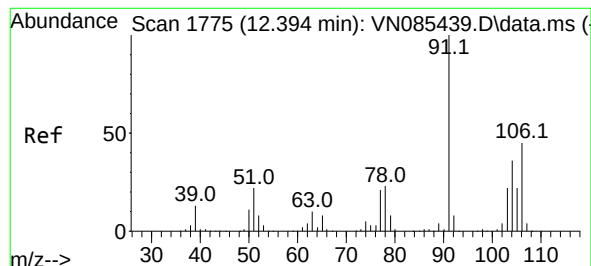
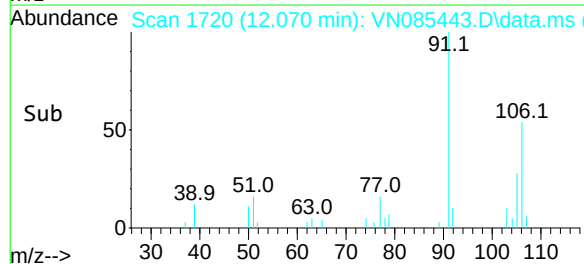
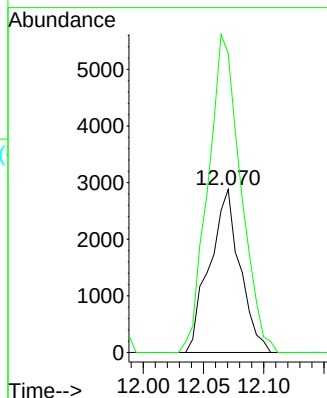
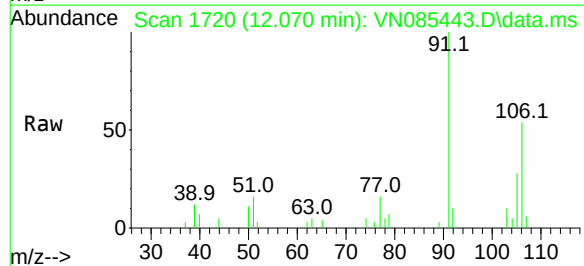
91 209.3 167.7 251.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#69

o-Xylene

Concen: 0.766 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085443.D

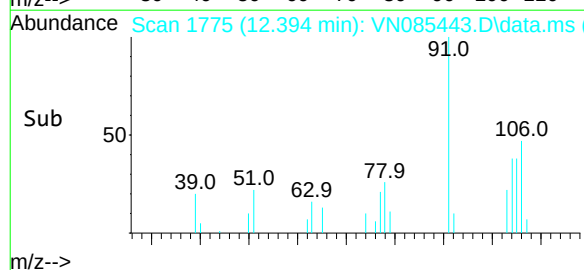
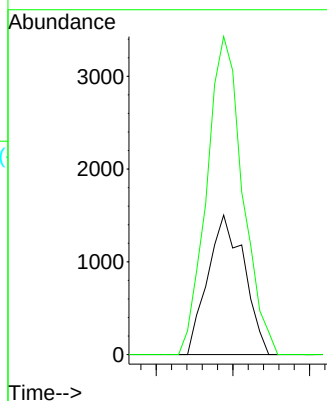
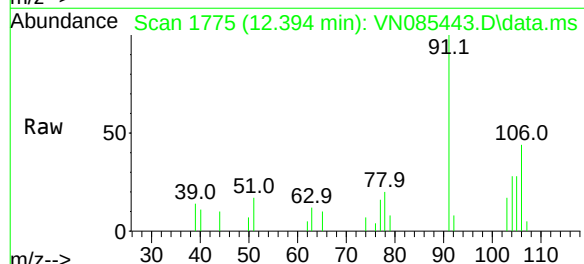
Acq: 14 Jan 2025 17:19

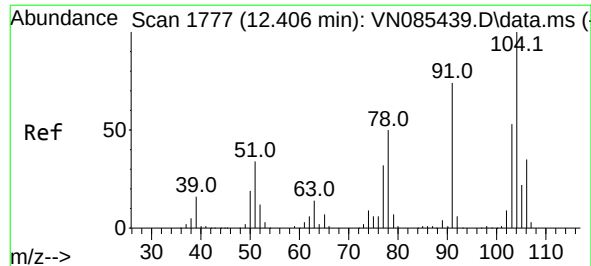
Tgt Ion:106 Resp: 2478

Ion Ratio Lower Upper

106 100

91 225.4 110.4 331.2





#70

Styrene

Concen: 0.712 ug/l

RT: 12.406 min Scan# 17

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

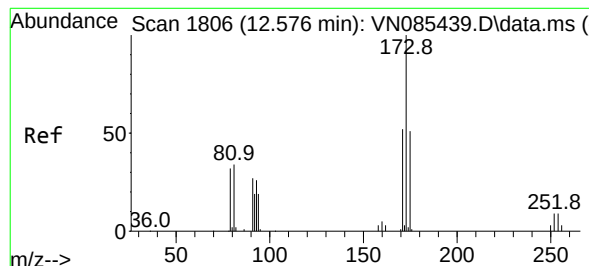
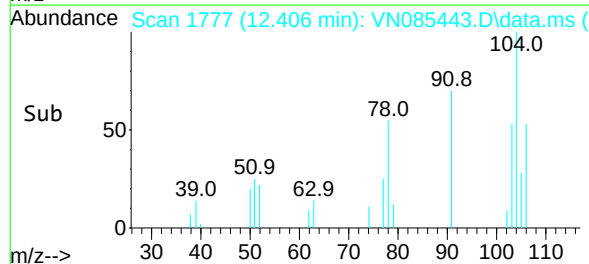
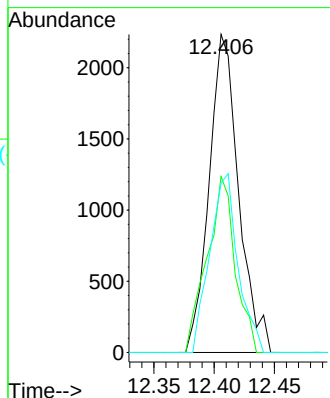
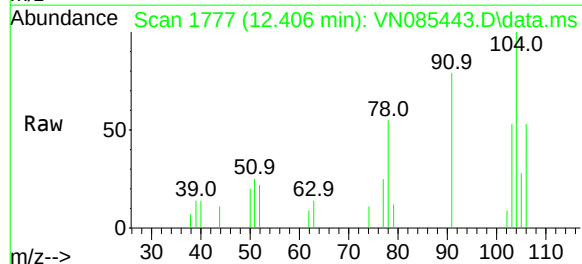
ClientSampleId :

VSTDIC001

Tgt Ion:	104	Resp:	3812
Ion	Ratio	Lower	Upper
104	100		
78	52.9	42.5	63.7
103	53.7	43.8	65.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#71

Bromoform

Concen: 0.818 ug/l

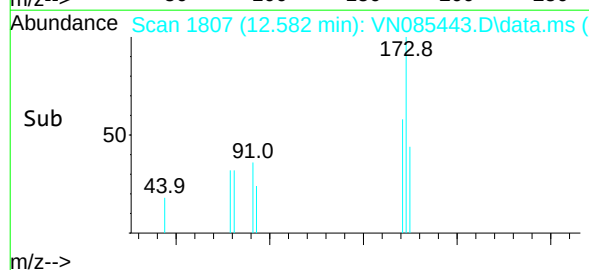
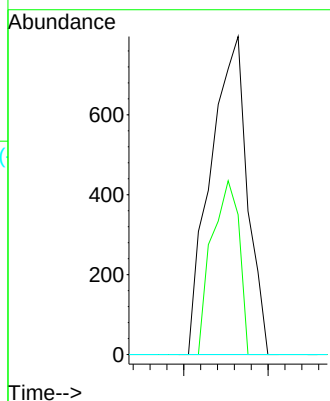
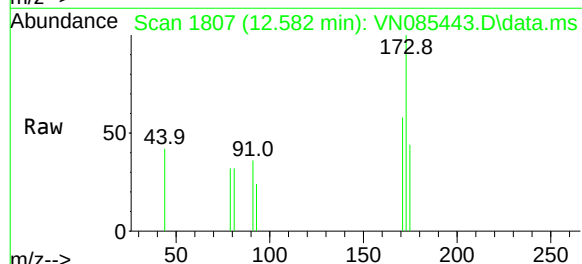
RT: 12.582 min Scan# 1807

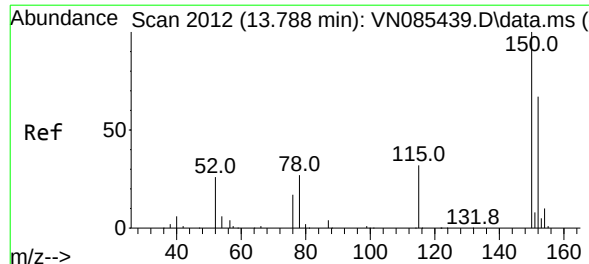
Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion:	173	Resp:	1208
Ion	Ratio	Lower	Upper
173	100		
175	40.7	24.4	73.2
254	0.0	0.0	0.0





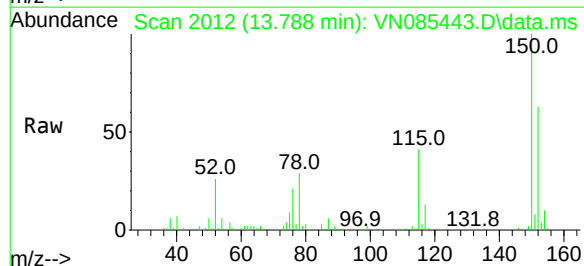
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

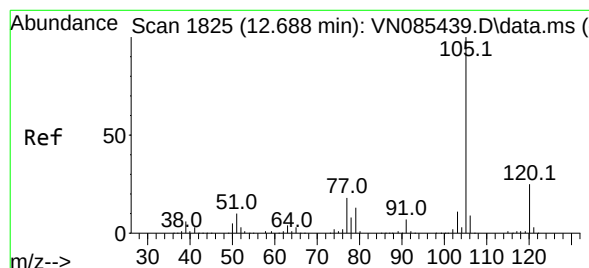
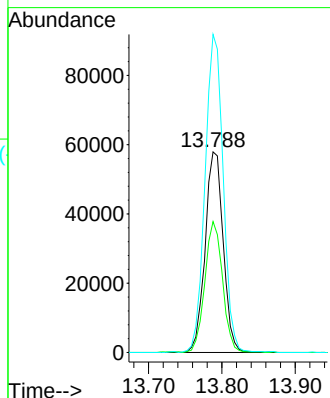
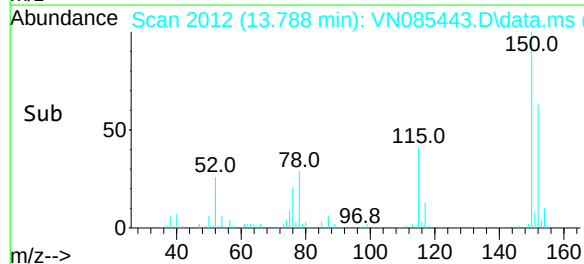
VSTDIC001



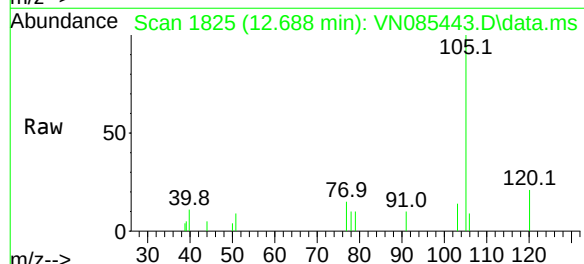
Tgt Ion:152 Resp: 99539
Ion Ratio Lower Upper
152 100
115 63.8 31.1 93.3
150 158.5 0.0 343.6

Manual Integrations
APPROVED

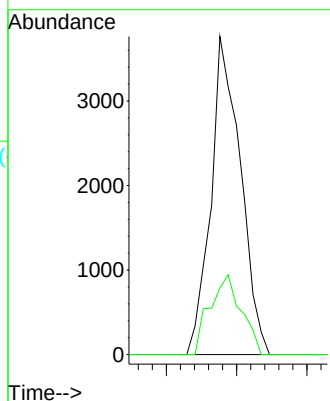
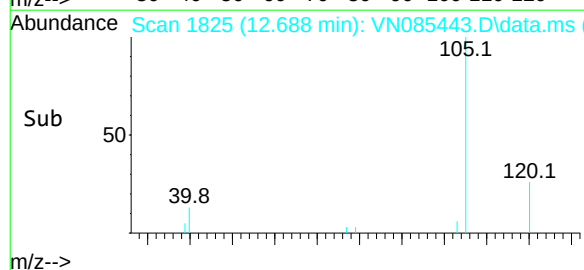
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

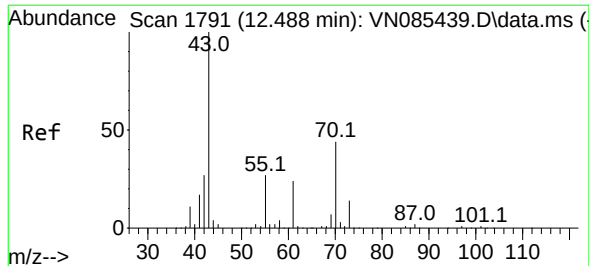


#73
Isopropylbenzene
Concen: 0.820 ug/l
RT: 12.688 min Scan# 1825
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19



Tgt Ion:105 Resp: 5506
Ion Ratio Lower Upper
105 100
120 26.7 12.8 38.3





#74

N-amy1 acetate

Concen: 0.899 ug/l

RT: 12.494 min Scan# 1791

Delta R.T. 0.006 min

Lab File: VN085443.D

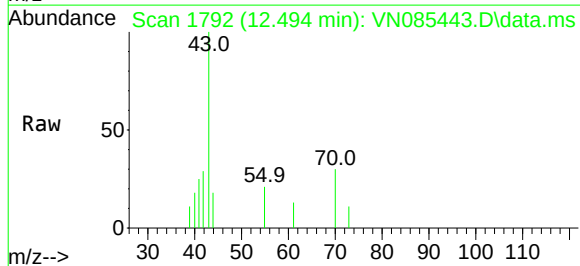
Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

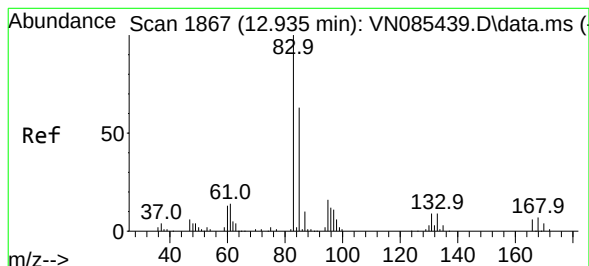
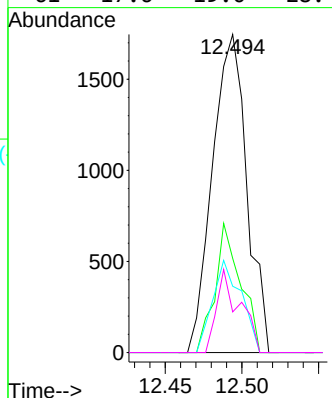
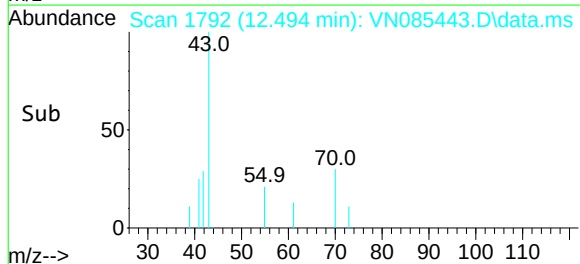
VSTDIC001



Tgt Ion:	43	Resp:	2716
Ion	Ratio	Lower	Upper
43	100		
70	30.4	34.0	51.0#
55	24.2	21.4	32.2
61	17.6	19.0	28.4#

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#75

1,1,2,2-Tetrachloroethane

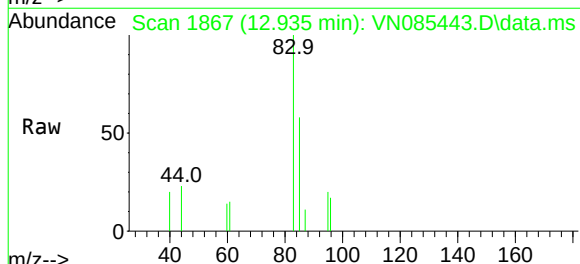
Concen: 1.102 ug/l

RT: 12.935 min Scan# 1867

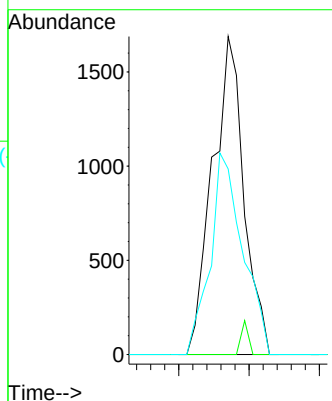
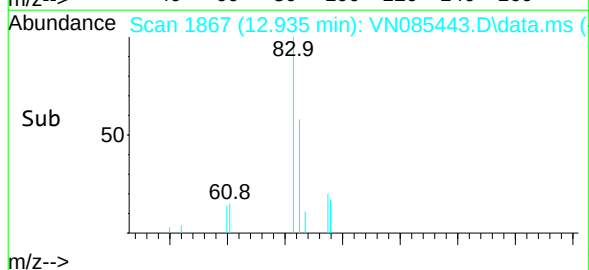
Delta R.T. -0.000 min

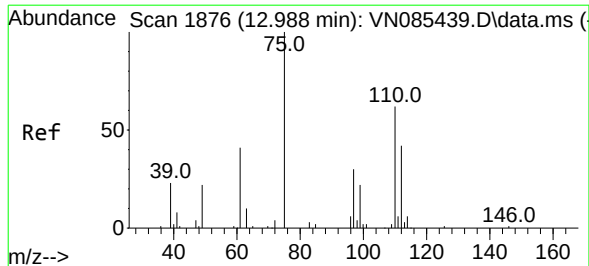
Lab File: VN085443.D

Acq: 14 Jan 2025 17:19



Tgt Ion:	83	Resp:	2616
Ion	Ratio	Lower	Upper
83	100		
131	2.4	4.8	14.4#
85	65.7	32.2	96.6





#76

1,2,3-Trichloropropane

Concen: 1.088 ug/l m

RT: 12.982 min Scan# 18

Delta R.T. -0.006 min

Lab File: VN085443.D

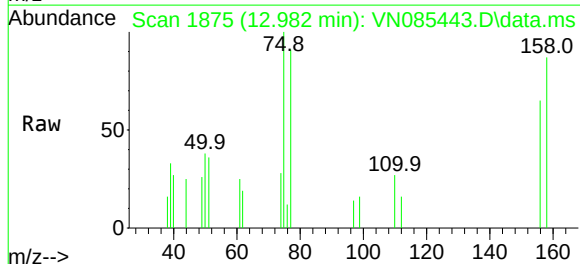
Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001



Tgt Ion: 75 Resp: 2198

Ion Ratio Lower Upper

75 100

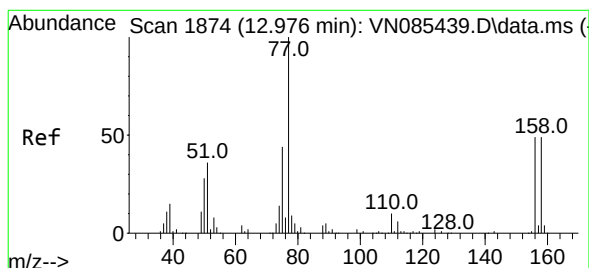
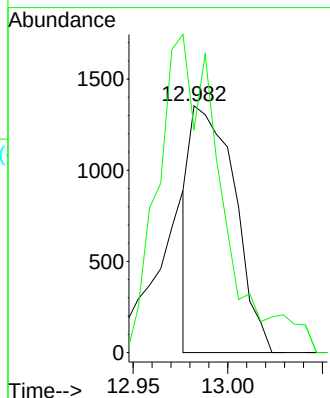
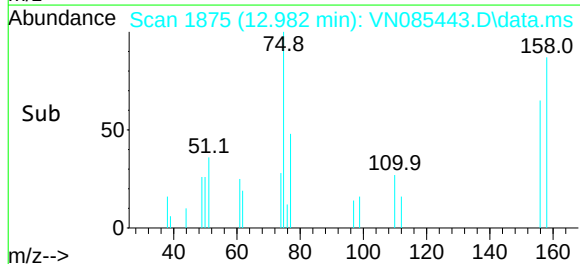
77 184.2 109.7 329.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#77

Bromobenzene

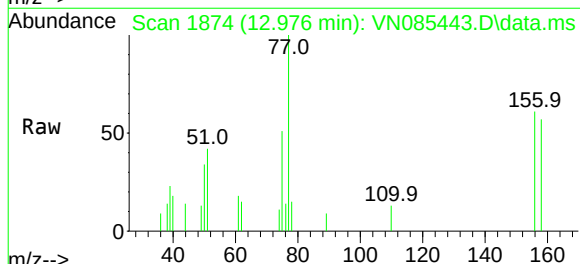
Concen: 0.987 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19



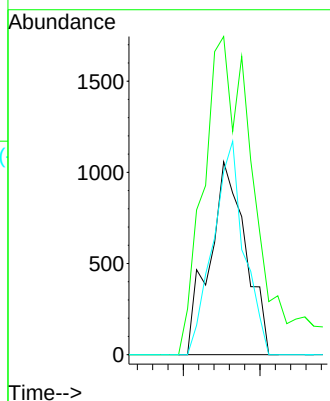
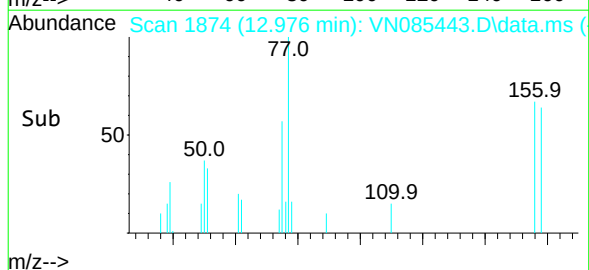
Tgt Ion:156 Resp: 1733

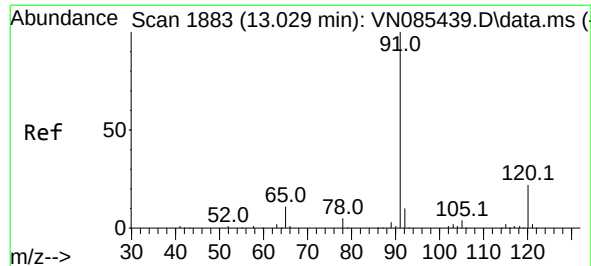
Ion Ratio Lower Upper

156 100

77 233.6 114.1 342.4

158 94.9 48.9 146.8





#78

n-propylbenzene

Concen: 0.808 ug/l

RT: 13.029 min Scan# 18

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 6424

Ion Ratio Lower Upper

91 100

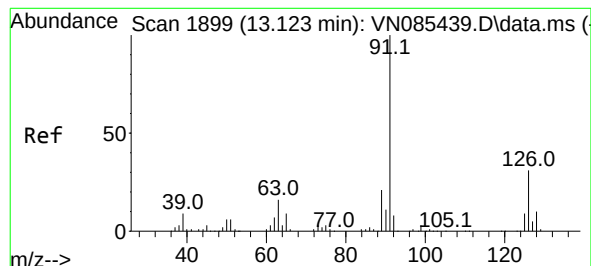
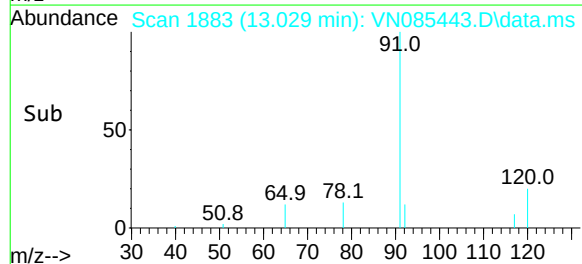
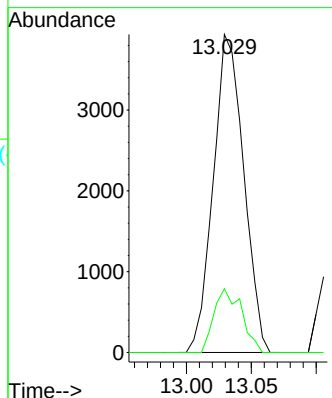
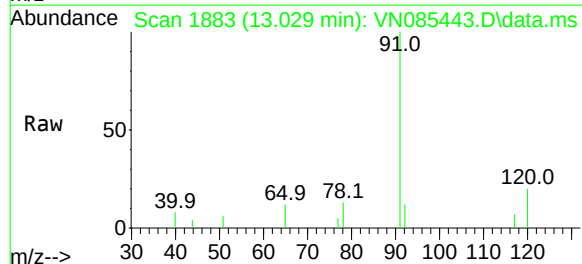
120 18.2 10.9 32.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#79

2-Chlorotoluene

Concen: 0.871 ug/l

RT: 13.117 min Scan# 1898

Delta R.T. -0.006 min

Lab File: VN085443.D

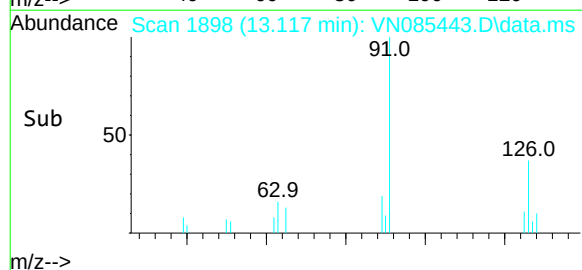
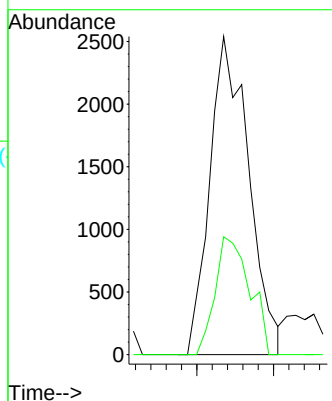
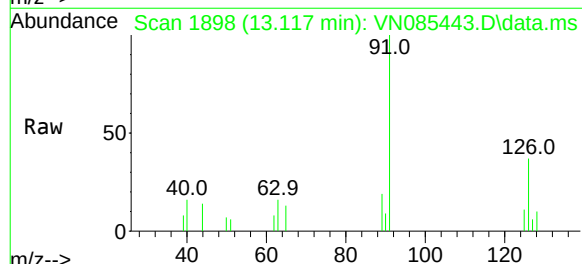
Acq: 14 Jan 2025 17:19

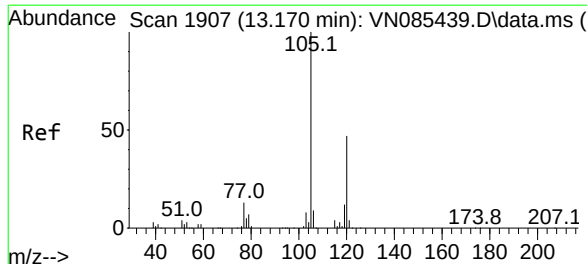
Tgt Ion: 91 Resp: 4483

Ion Ratio Lower Upper

91 100

126 32.9 15.7 47.1





#80

1,3,5-Trimethylbenzene

Concen: 0.775 ug/l

RT: 13.165 min Scan# 19

Delta R.T. -0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 105 Resp: 4301

Ion Ratio Lower Upper

105 100

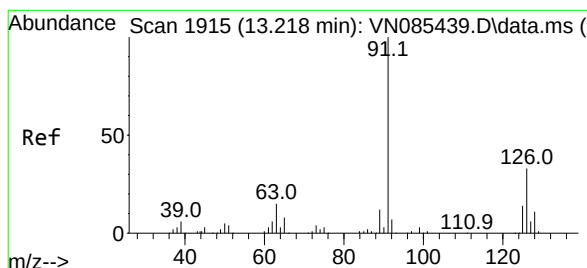
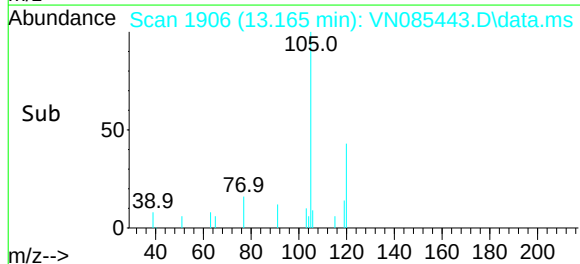
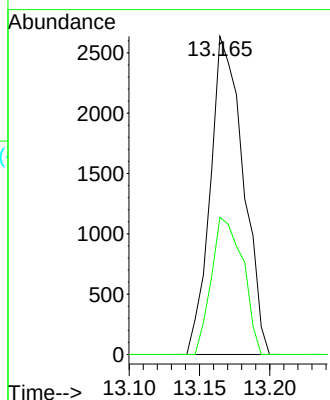
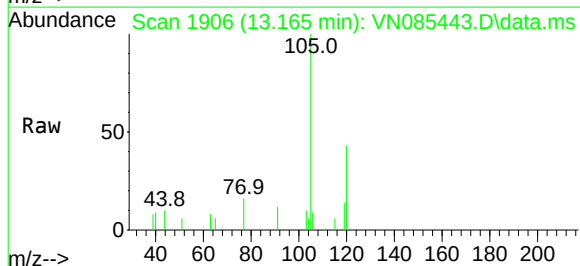
120 41.2 23.9 71.7

Manual Integrations

APPROVED

Reviewed By : John Carlone 01/15/2025

Supervised By : Mahesh Dadoda 01/15/2025



#82

4-Chlorotoluene

Concen: 0.833 ug/l

RT: 13.223 min Scan# 1916

Delta R.T. 0.006 min

Lab File: VN085443.D

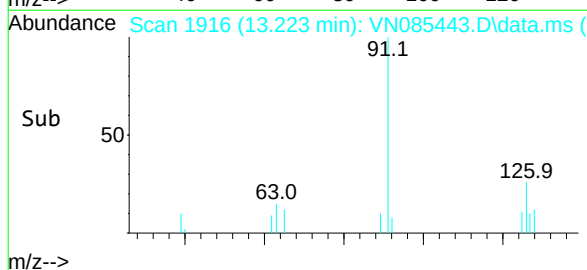
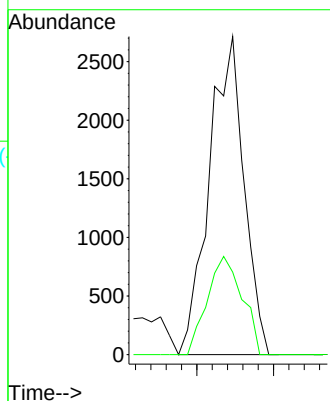
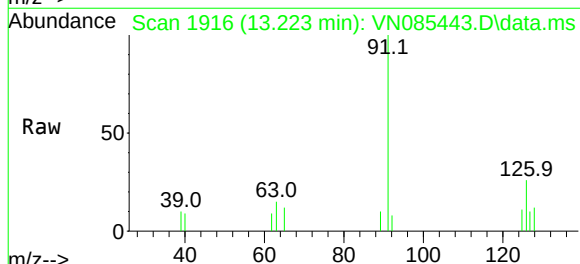
Acq: 14 Jan 2025 17:19

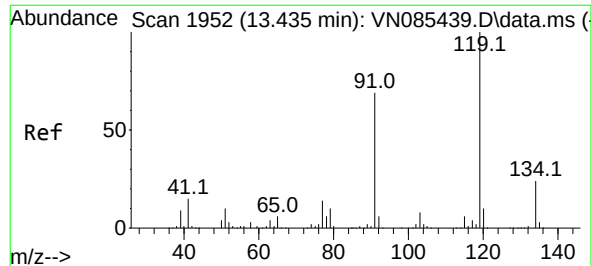
Tgt Ion: 91 Resp: 4268

Ion Ratio Lower Upper

91 100

126 31.0 15.9 47.7





#83

tert-Butylbenzene

Concen: 0.805 ug/l

RT: 13.435 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

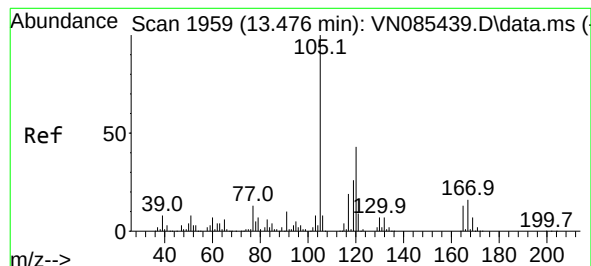
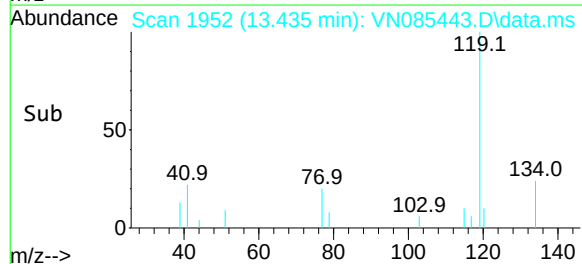
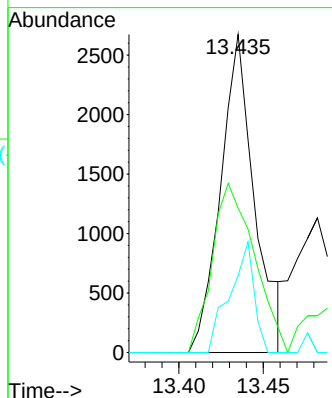
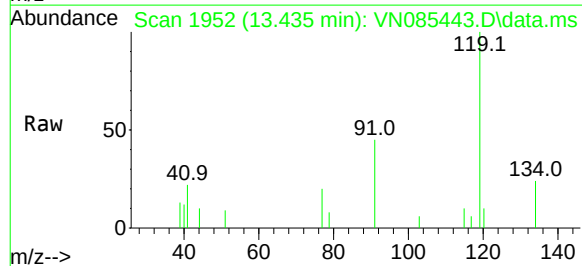
ClientSampleId :

VSTDIC001

Tgt Ion:	119	Resp:	3753
Ion	Ratio	Lower	Upper
119	100		
91	65.9	35.1	105.3
134	24.9	12.0	36.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#84

1,2,4-Trimethylbenzene

Concen: 0.679 ug/l

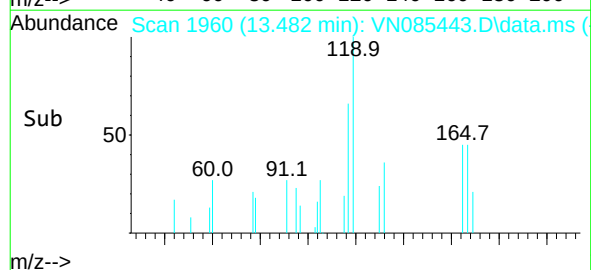
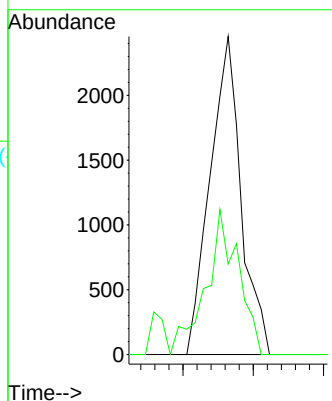
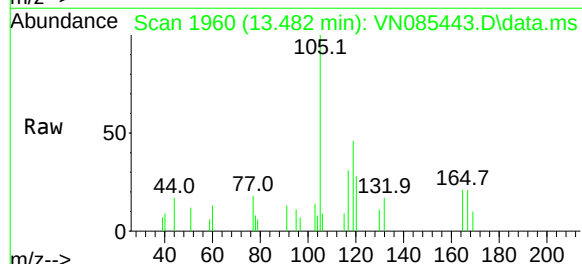
RT: 13.482 min Scan# 1960

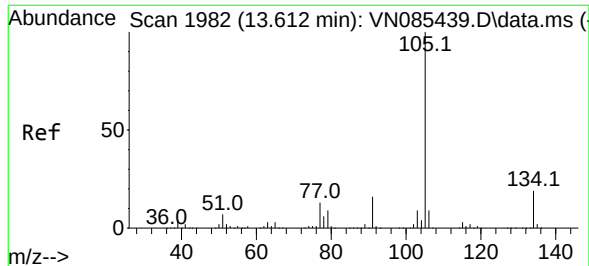
Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion:	105	Resp:	3758
Ion	Ratio	Lower	Upper
105	100		
120	47.7	21.6	65.0





#85

sec-Butylbenzene

Concen: 0.714 ug/l

RT: 13.612 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085443.D

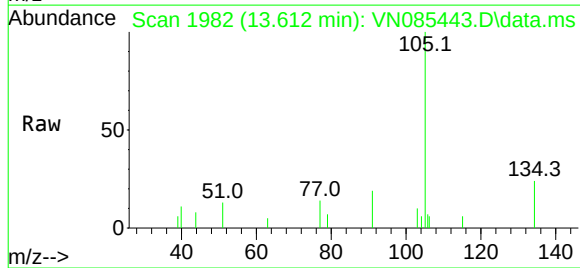
Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001



Tgt Ion:105 Resp: 4614

Ion Ratio Lower Upper

105 100

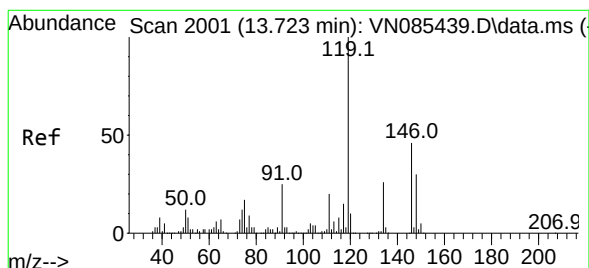
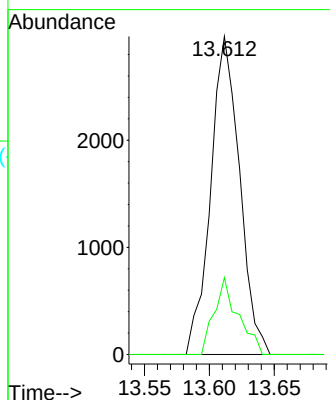
134 19.9 9.7 28.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#86

p-Isopropyltoluene

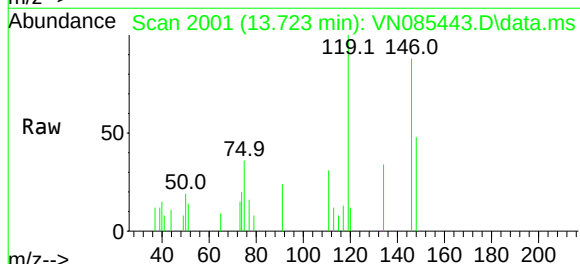
Concen: 0.716 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19



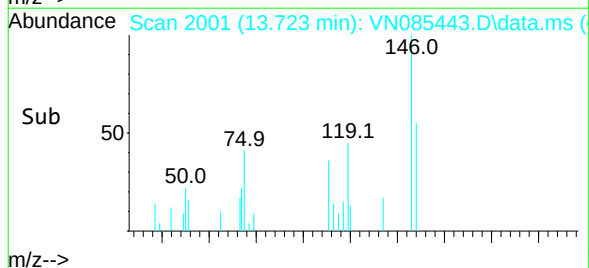
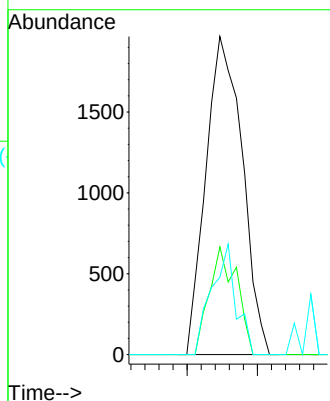
Tgt Ion:119 Resp: 3538

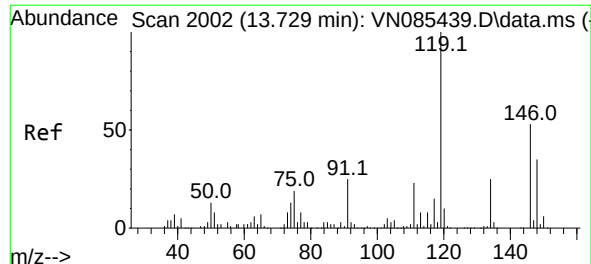
Ion Ratio Lower Upper

119 100

134 25.6 12.7 38.0

91 23.2 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 0.940 ug/l

RT: 13.723 min Scan# 20

Delta R.T. -0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

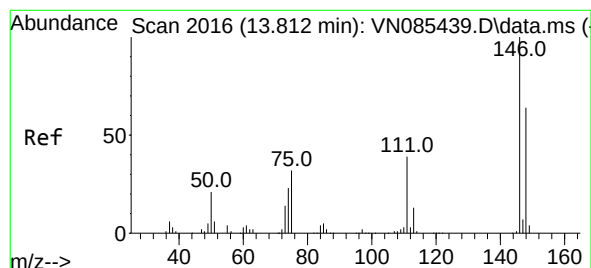
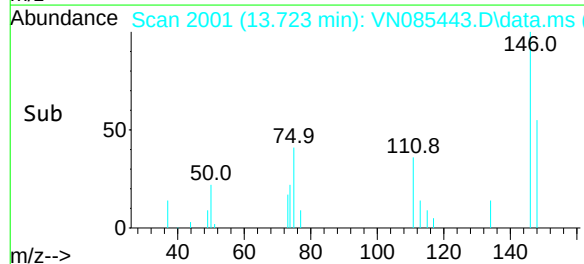
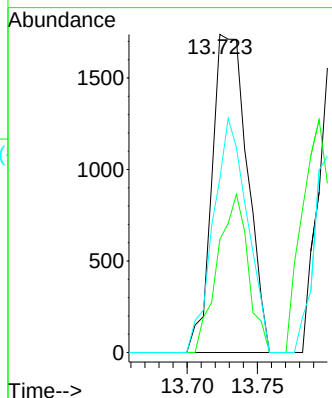
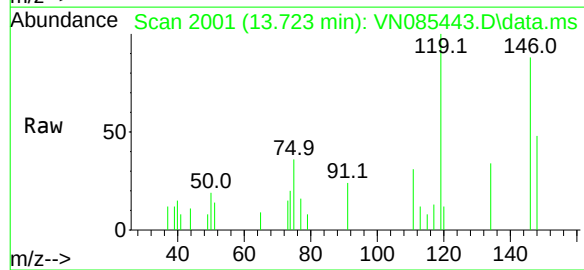
ClientSampleId :

VSTDIC001

Tgt	Ion:	146	Resp:	3038
Ion	Ratio	Lower	Upper	
146	100			
111	43.0	21.4	64.3	
148	70.9	32.3	96.9	

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#88

1,4-Dichlorobenzene

Concen: 1.050 ug/l m

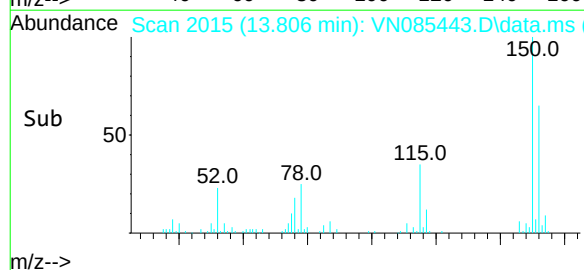
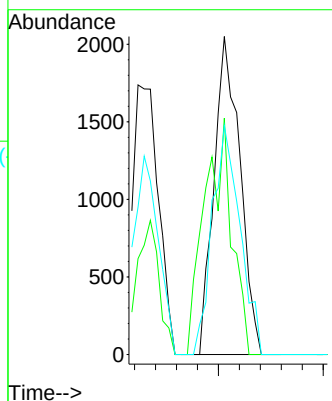
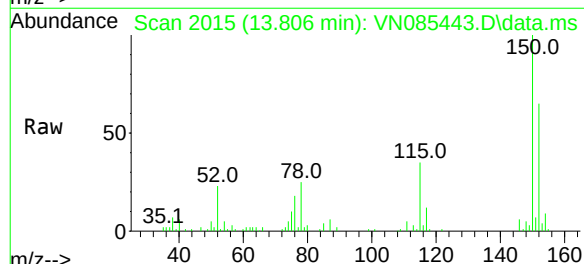
RT: 13.806 min Scan# 2015

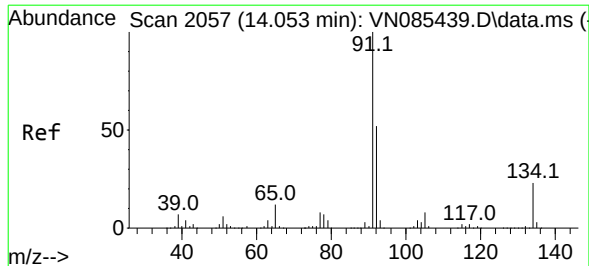
Delta R.T. -0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt	Ion:	146	Resp:	3517
Ion	Ratio	Lower	Upper	
146	100			
111	37.2	21.3	63.7	
148	61.2	32.4	97.0	





#89

n-Butylbenzene

Concen: 0.761 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

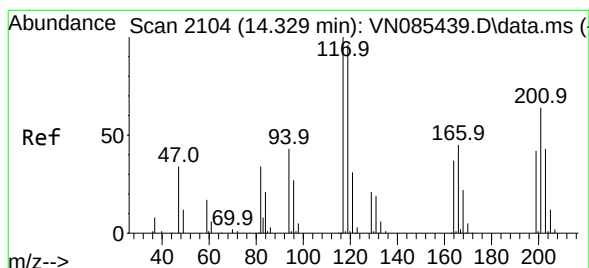
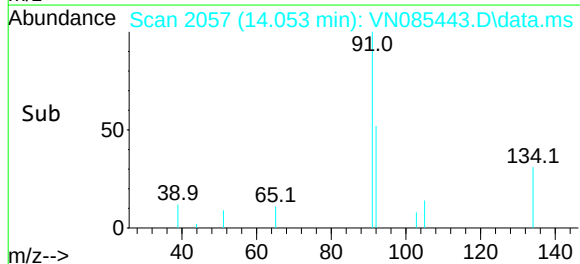
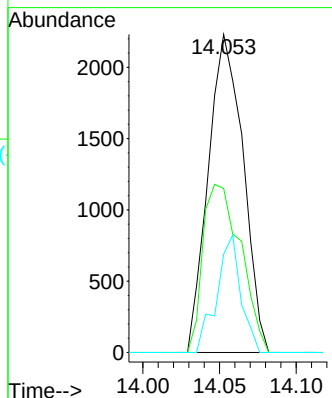
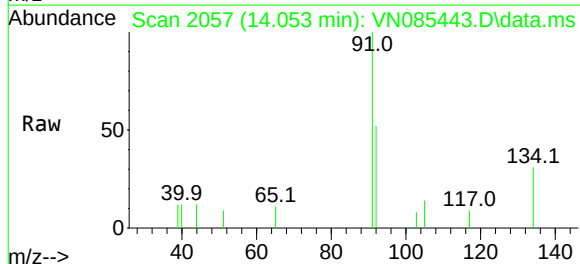
ClientSampleId :

VSTDIC001

Tgt Ion:	91	Resp:	3527
Ion	Ratio	Lower	Upper
91	100		
92	57.2	25.8	77.3
134	25.5	11.7	35.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#90

Hexachloroethane

Concen: 1.102 ug/l

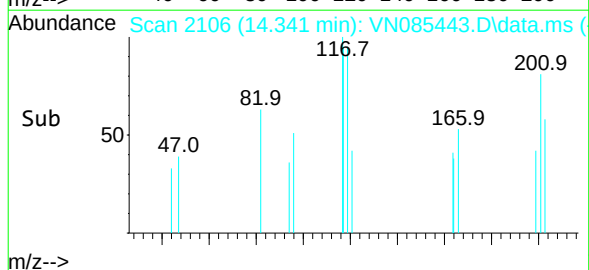
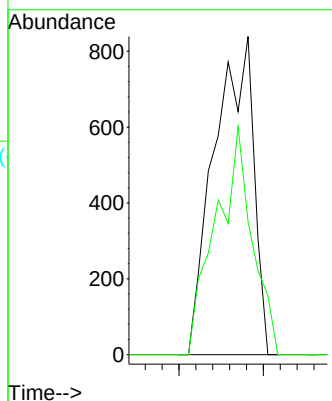
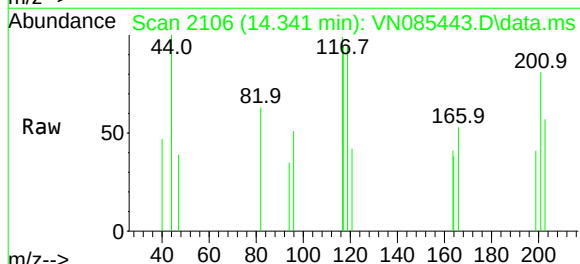
RT: 14.341 min Scan# 2106

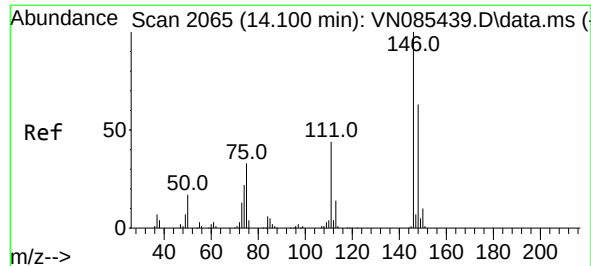
Delta R.T. 0.012 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion:	117	Resp:	1355
Ion	Ratio	Lower	Upper
117	100		
201	66.5	33.7	101.0





#91

1,2-Dichlorobenzene

Concen: 1.090 ug/l

RT: 14.106 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

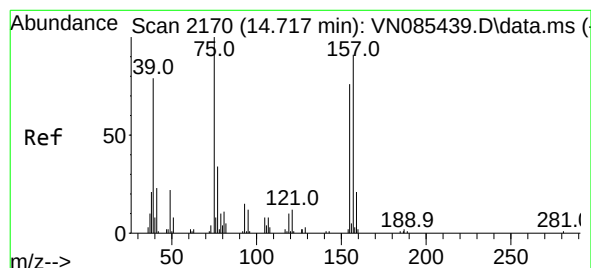
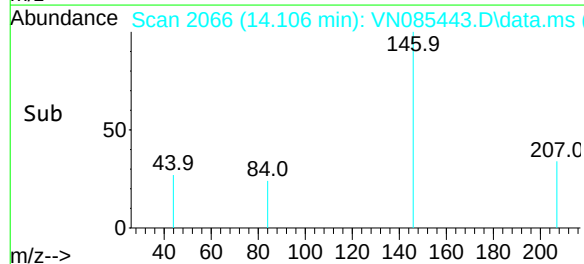
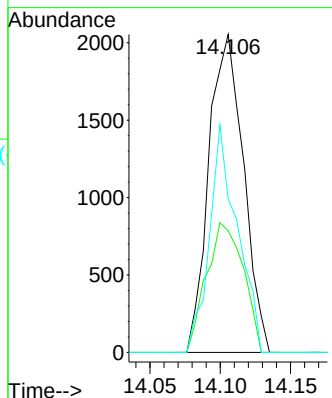
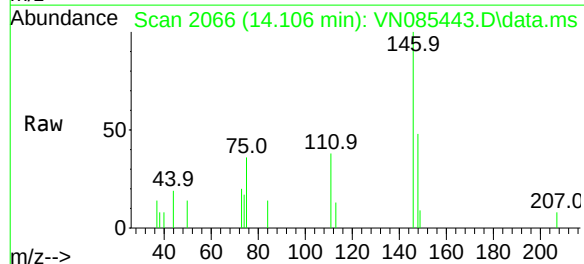
VSTDIC001

Tgt	Ion	146	Resp:	3515
Ion	Ratio	Lower	Upper	
146	100			
111	43.4	21.7	65.1	
148	57.8	31.4	94.2	

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.928 ug/l

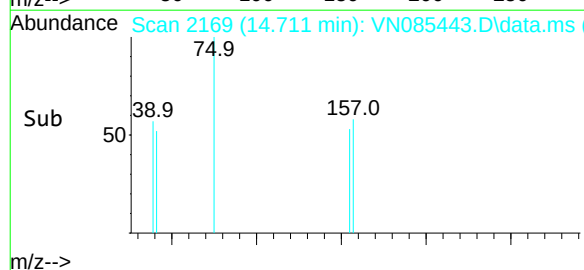
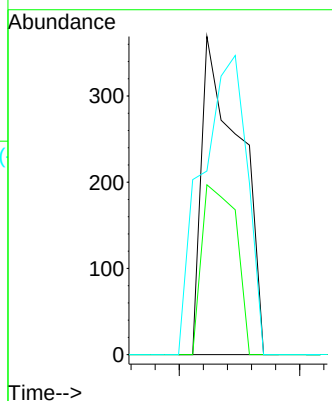
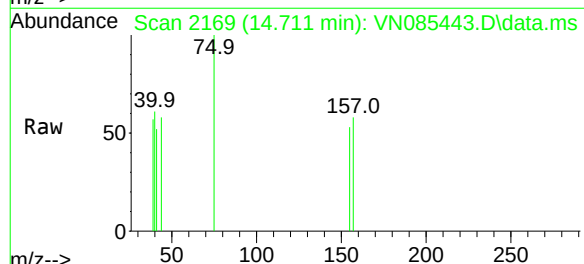
RT: 14.711 min Scan# 2169

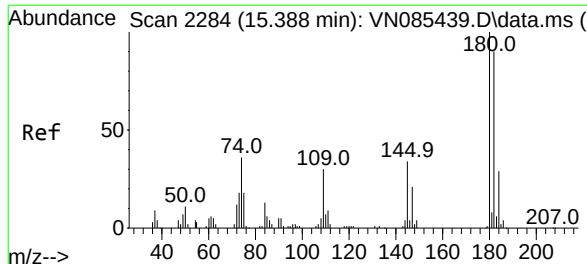
Delta R.T. -0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt	Ion	75	Resp:	402
Ion	Ratio	Lower	Upper	
75	100			
155	48.0	36.4	109.2	
157	112.7	45.4	136.1	





#93

1,2,4-Trichlorobenzene

Concen: 0.874 ug/l

RT: 15.394 min Scan# 2284

Delta R.T. 0.006 min

Lab File: VN085443.D

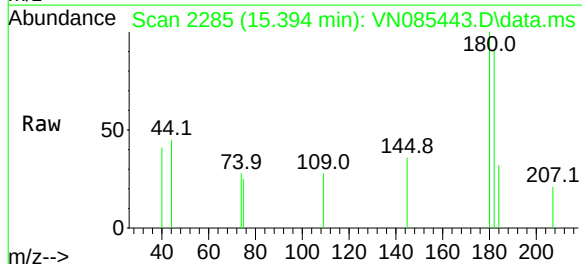
Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

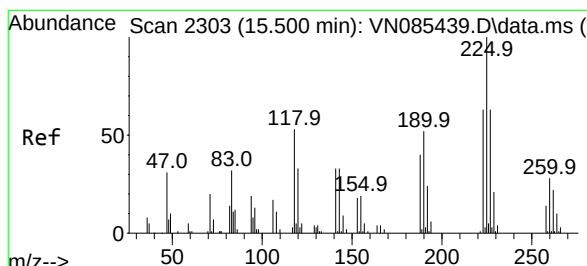
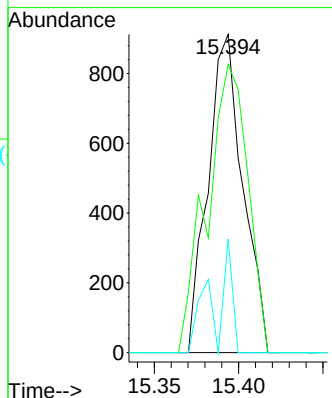
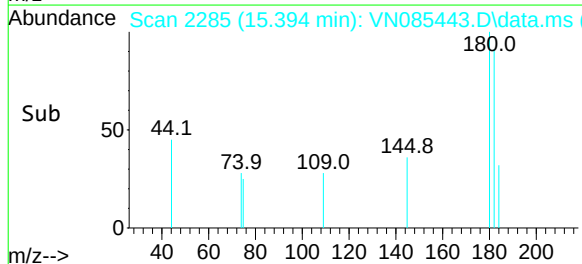
VSTDIC001



Tgt Ion:	180	Resp:	1310
Ion Ratio	Lower	Upper	
180	100		
182	106.3	46.8	140.3
145	9.7	16.0	48.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#94

Hexachlorobutadiene

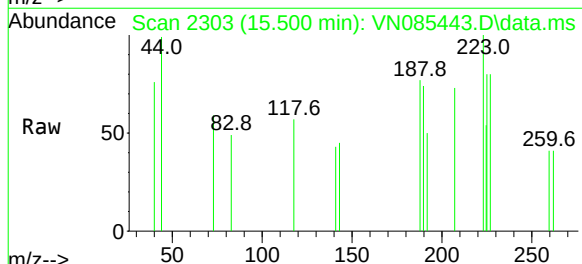
Concen: 1.033 ug/l

RT: 15.500 min Scan# 2303

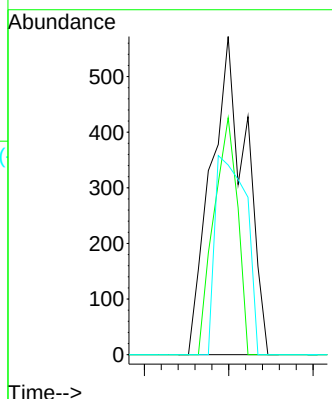
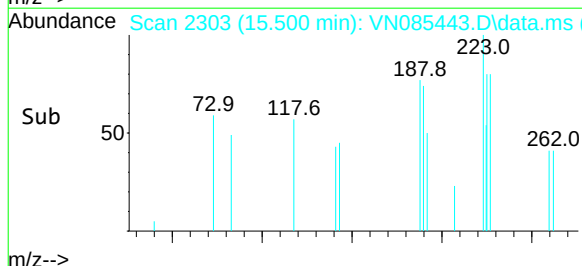
Delta R.T. -0.000 min

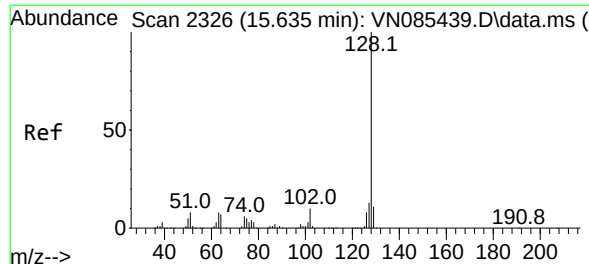
Lab File: VN085443.D

Acq: 14 Jan 2025 17:19



Tgt Ion:	225	Resp:	822
Ion Ratio	Lower	Upper	
225	100		
223	50.7	30.7	92.1
227	55.7	30.9	92.5





#95

Naphthalene

Concen: 0.941 ug/l

RT: 15.641 min Scan# 2326

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

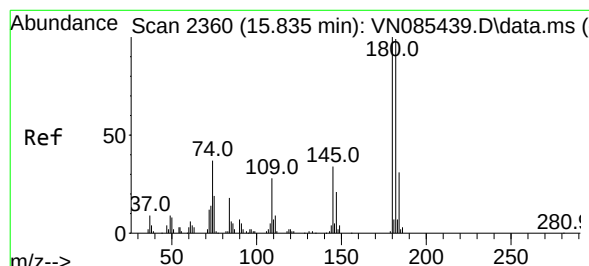
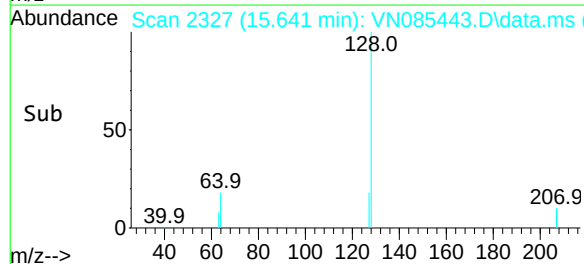
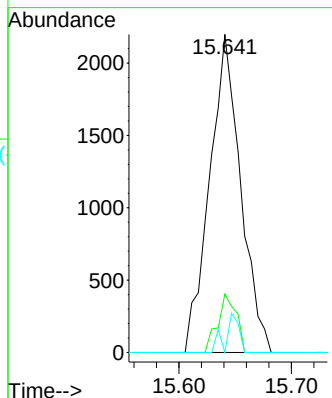
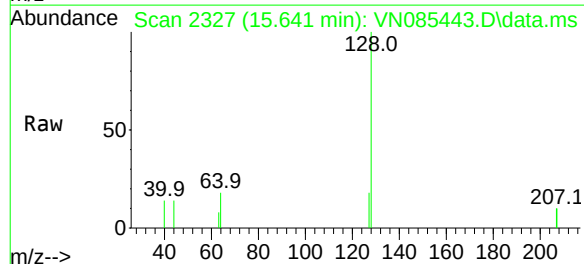
ClientSampleId :

VSTDIC001

Tgt Ion:	128	Resp:	4210
Ion	Ratio	Lower	Upper
128	100		
127	11.1	10.6	16.0
129	5.3	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#96

1,2,3-Trichlorobenzene

Concen: 0.985 ug/l

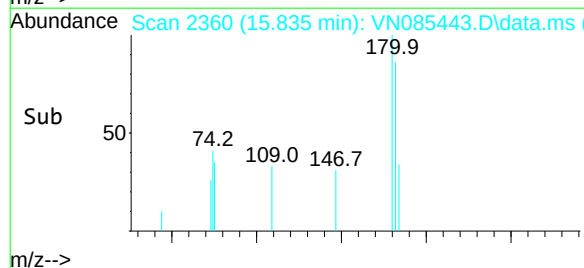
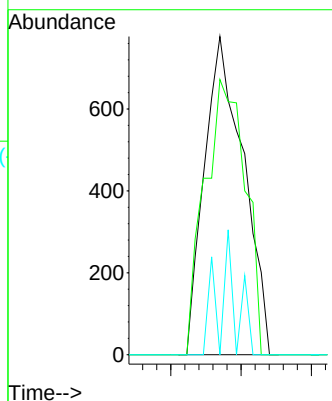
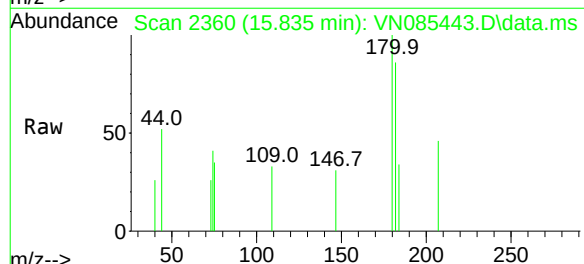
RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion:	180	Resp:	1494
Ion	Ratio	Lower	Upper
180	100		
182	90.2	47.4	142.2
145	11.8	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085445.D
 Acq On : 14 Jan 2025 18:06
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN011425

Quant Time: Jan 15 02:20:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	219757	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	370487	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	320948	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	158525	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	176594	49.782	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.560%		
35) Dibromofluoromethane	8.165	113	130487	50.768	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	101.540%		
50) Toluene-d8	10.565	98	477630	52.302	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	104.600%		
62) 4-Bromofluorobenzene	12.847	95	165249	52.899	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	105.800%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	130242	43.772	ug/l	100
3) Chloromethane	2.360	50	138152	42.883	ug/l	99
4) Vinyl Chloride	2.513	62	138316	42.715	ug/l	99
5) Bromomethane	2.954	94	80019	40.910	ug/l	91
6) Chloroethane	3.124	64	86837	42.299	ug/l	99
7) Trichlorofluoromethane	3.501	101	206526	43.956	ug/l	99
8) Diethyl Ether	3.959	74	69545	42.846	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	118310	44.706	ug/l	98
10) Methyl Iodide	4.595	142	140190	46.259	ug/l	98
11) Tert butyl alcohol	5.518	59	83933	206.633	ug/l	99
12) 1,1-Dichloroethene	4.342	96	106880	45.317	ug/l	98
13) Acrolein	4.177	56	135720	244.765	ug/l	99
14) Allyl chloride	5.024	41	170308	44.501	ug/l	99
15) Acrylonitrile	5.712	53	294062	227.920	ug/l	99
16) Acetone	4.418	43	245248	213.971	ug/l	98
17) Carbon Disulfide	4.712	76	300215	41.342	ug/l	100
18) Methyl Acetate	5.018	43	156938	45.028	ug/l	100
19) Methyl tert-butyl Ether	5.795	73	365819	47.768	ug/l	100
20) Methylene Chloride	5.271	84	122059	43.017	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	112597	44.672	ug/l	93
22) Diisopropyl ether	6.665	45	399206	46.996	ug/l	99
23) Vinyl Acetate	6.601	43	1471068	247.459	ug/l	100
24) 1,1-Dichloroethane	6.571	63	228489	44.114	ug/l	98
25) 2-Butanone	7.477	43	386125	228.924	ug/l	100
26) 2,2-Dichloropropane	7.489	77	199303	47.593	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	134920	45.446	ug/l	98
28) Bromochloromethane	7.812	49	106323	44.122	ug/l	100
29) Tetrahydrofuran	7.836	42	255650	239.065	ug/l	99
30) Chloroform	7.965	83	235923	44.071	ug/l	98
31) Cyclohexane	8.253	56	193034	42.878	ug/l	93
32) 1,1,1-Trichloroethane	8.165	97	208172	44.332	ug/l	99
36) 1,1-Dichloropropene	8.365	75	161834	44.863	ug/l	98
37) Ethyl Acetate	7.559	43	160656	44.123	ug/l	97
38) Carbon Tetrachloride	8.359	117	183592	44.456	ug/l	99
39) Methylcyclohexane	9.600	83	168431	49.687	ug/l	98
40) Benzene	8.600	78	494871	45.657	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085445.D
 Acq On : 14 Jan 2025 18:06
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN011425

Quant Time: Jan 15 02:20:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	89326	47.155	ug/l	99
42) 1,2-Dichloroethane	8.665	62	185663	45.481	ug/l	100
43) Isopropyl Acetate	8.683	43	265107	45.440	ug/l	99
44) Trichloroethene	9.347	130	110058	43.622	ug/l	96
45) 1,2-Dichloropropane	9.618	63	123876	44.744	ug/l	97
46) Dibromomethane	9.700	93	88325	44.214	ug/l	98
47) Bromodichloromethane	9.889	83	185808	45.655	ug/l	99
48) Methyl methacrylate	9.677	41	131142	49.948	ug/l	97
49) 1,4-Dioxane	9.689	88	35051	792.760	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	832426	245.877	ug/l	99
52) Toluene	10.630	92	301911	48.073	ug/l	99
53) t-1,3-Dichloropropene	10.830	75	183680	47.757	ug/l	94
54) cis-1,3-Dichloropropene	10.312	75	196307	47.783	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	114757	46.173	ug/l	97
56) Ethyl methacrylate	10.871	69	182170	43.762	ug/l	98
57) 1,3-Dichloropropane	11.159	76	202583	46.877	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	403949	256.116	ug/l	99
59) 2-Hexanone	11.194	43	598433	251.213	ug/l	100
60) Dibromochloromethane	11.353	129	137831	45.935	ug/l	99
61) 1,2-Dibromoethane	11.465	107	110926	44.837	ug/l	100
64) Tetrachloroethene	11.100	164	98211	44.886	ug/l	96
65) Chlorobenzene	11.888	112	322723	45.901	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	115379	44.712	ug/l	99
67) Ethyl Benzene	11.959	91	577059	50.391	ug/l	97
68) m/p-Xylenes	12.071	106	437367	103.341	ug/l	100
69) o-Xylene	12.394	106	210698	52.093	ug/l	99
70) Styrene	12.406	104	355459	53.103	ug/l	100
71) Bromoform	12.577	173	90693	49.119	ug/l #	100
73) Isopropylbenzene	12.694	105	534428	49.951	ug/l	99
74) N-amyl acetate	12.488	43	234342	48.730	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	164882	43.627	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	134976m	41.891	ug/l	
77) Bromobenzene	12.977	156	128968	46.138	ug/l	97
78) n-propylbenzene	13.029	91	645977	51.001	ug/l	100
79) 2-Chlorotoluene	13.124	91	392404	47.870	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	456048	51.604	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	58623m	49.226	ug/l	
82) 4-Chlorotoluene	13.218	91	398110	48.776	ug/l	100
83) tert-Butylbenzene	13.435	119	378478	50.997	ug/l	98
84) 1,2,4-Trimethylbenzene	13.477	105	457340	51.922	ug/l	100
85) sec-Butylbenzene	13.612	105	532578	51.777	ug/l	100
86) p-Isopropyltoluene	13.729	119	440284	47.795	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	236387	45.920	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	235319	44.102	ug/l	99
89) n-Butylbenzene	14.053	91	373227	50.578	ug/l	99
90) Hexachloroethane	14.329	117	88538	45.215	ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	231646	45.113	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.718	75	31899	46.221	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	109157	45.739	ug/l	98
94) Hexachlorobutadiene	15.500	225	53358	42.112	ug/l	99
95) Naphthalene	15.641	128	335535	47.116	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	107583	44.551	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

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

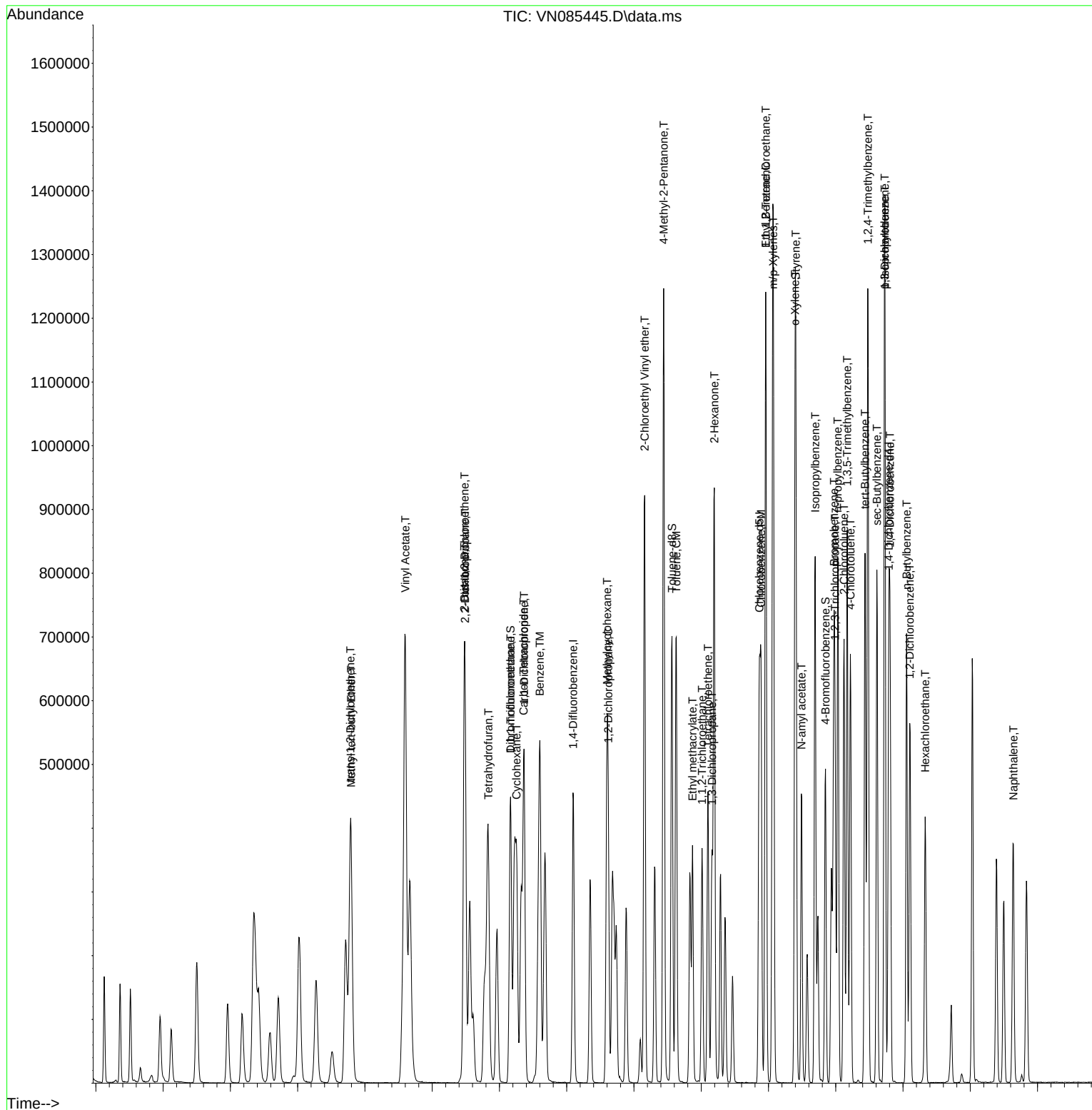
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Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

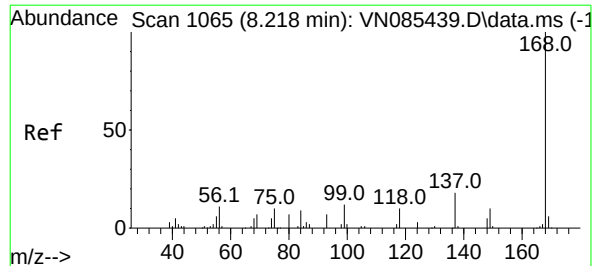
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations
APPROVED

Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025

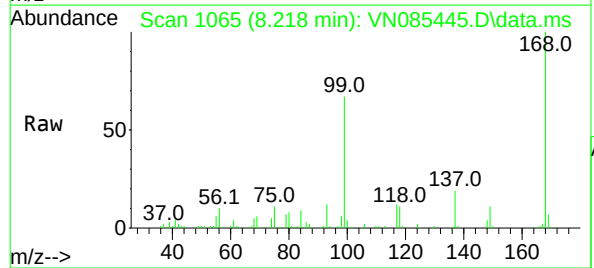
Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

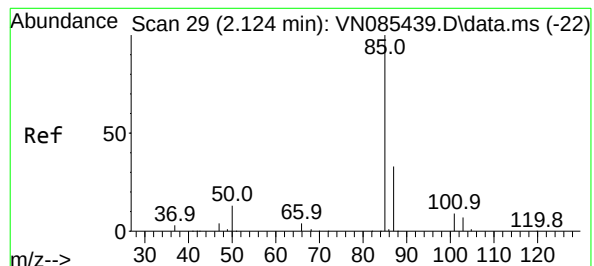
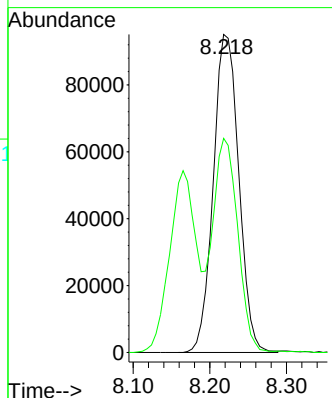
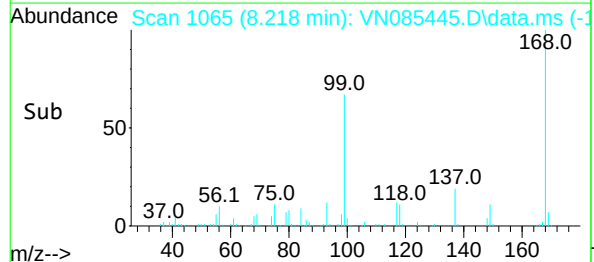
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425



Tgt Ion:168 Resp: 219757
Ion Ratio Lower Upper
168 100
99 66.9 53.6 80.4

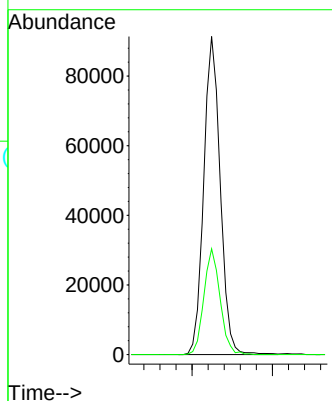
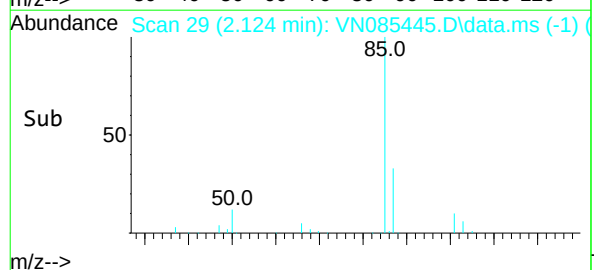
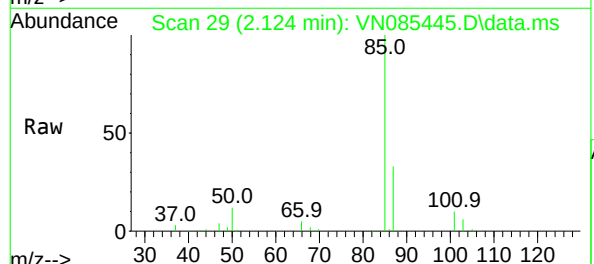
Manual Integrations
APPROVED

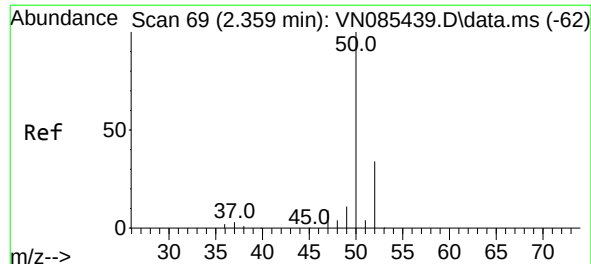
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#2
Dichlorodifluoromethane
Concen: 43.772 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 85 Resp: 130242
Ion Ratio Lower Upper
85 100
87 33.2 16.7 50.1





#3

Chloromethane

Concen: 42.883 ug/l

RT: 2.360 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 50 Resp: 138152

Ion Ratio Lower Upper

50 100

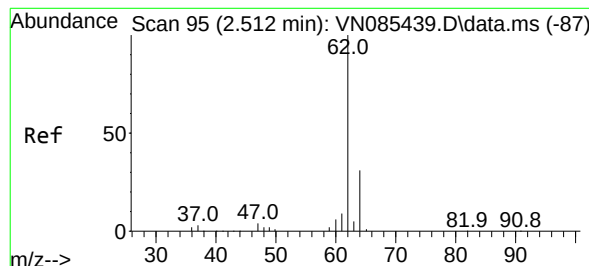
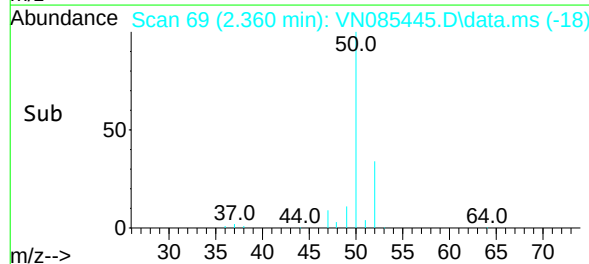
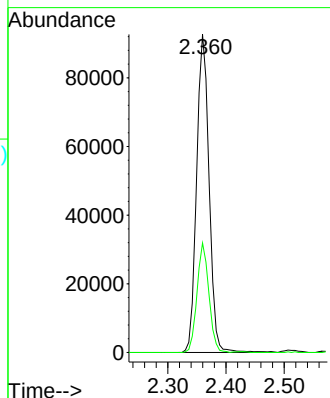
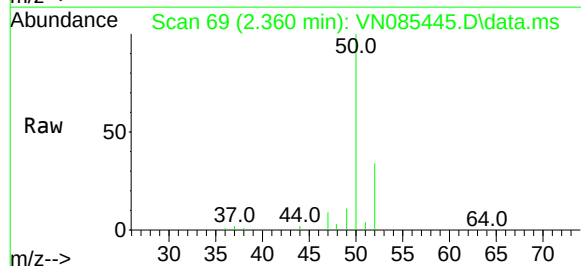
52 34.4 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#4

Vinyl Chloride

Concen: 42.715 ug/l

RT: 2.513 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN085445.D

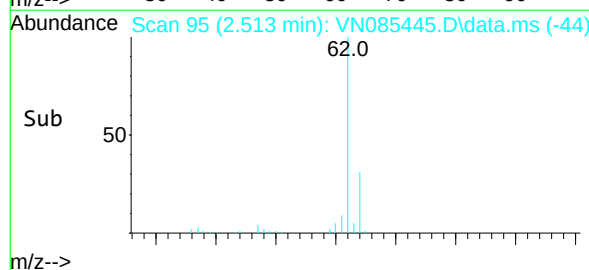
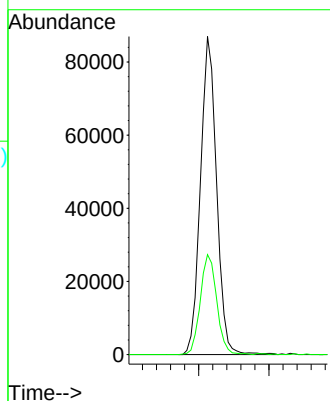
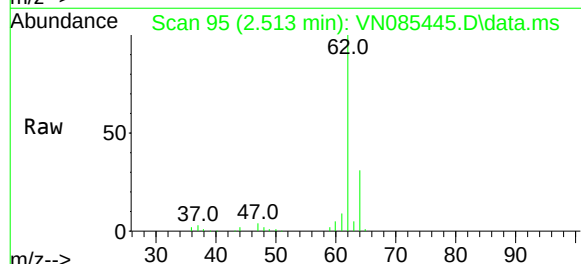
Acq: 14 Jan 2025 18:06

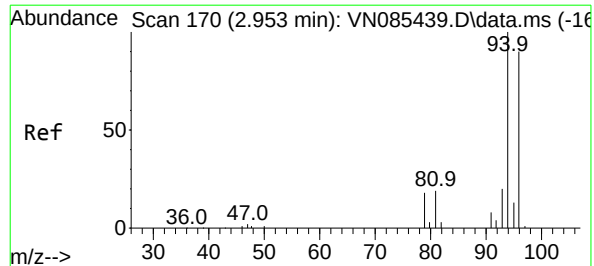
Tgt Ion: 62 Resp: 138316

Ion Ratio Lower Upper

62 100

64 31.4 24.8 37.2





#5

Bromomethane

Concen: 40.910 ug/l

RT: 2.954 min Scan# 170

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 94 Resp: 80019

Ion Ratio Lower Upper

94 100

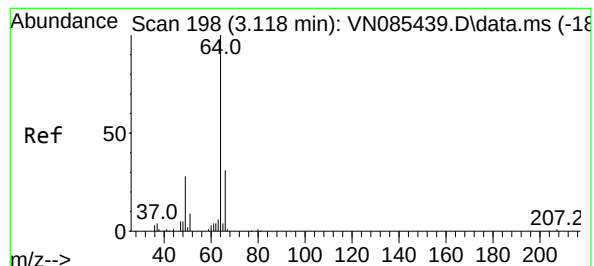
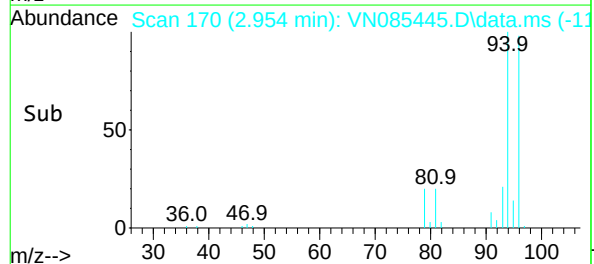
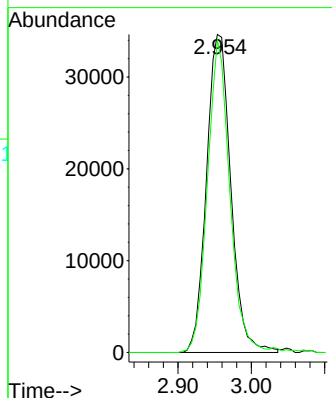
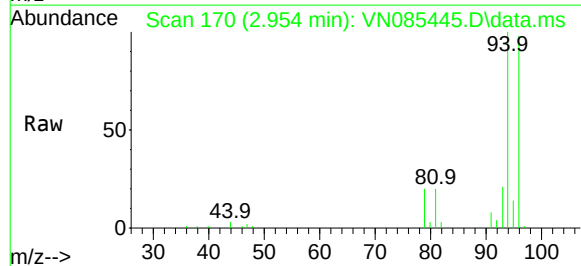
96 98.2 71.8 107.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#6

Chloroethane

Concen: 42.299 ug/l

RT: 3.124 min Scan# 199

Delta R.T. 0.006 min

Lab File: VN085445.D

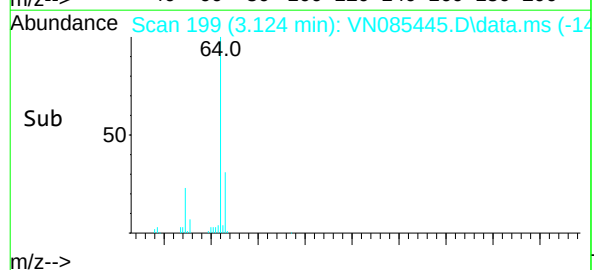
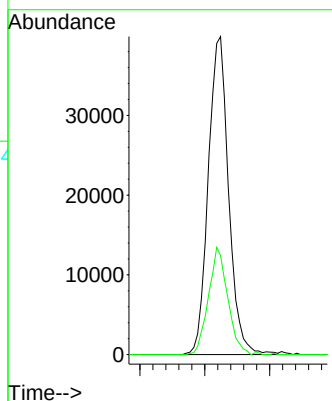
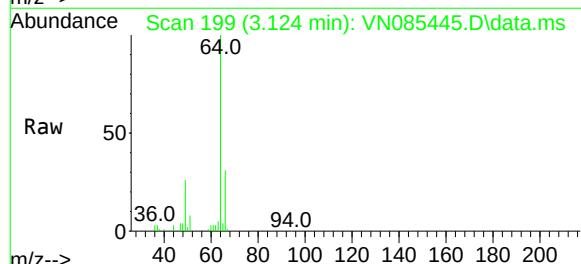
Acq: 14 Jan 2025 18:06

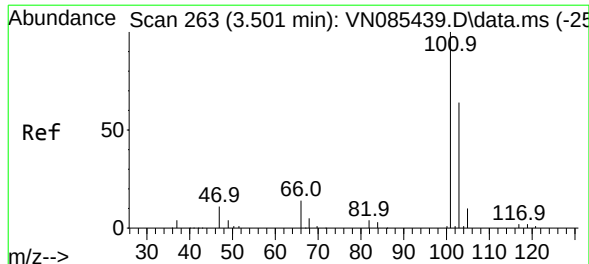
Tgt Ion: 64 Resp: 86837

Ion Ratio Lower Upper

64 100

66 31.1 24.6 36.8





#7

Trichlorofluoromethane

Concen: 43.956 ug/l

RT: 3.501 min Scan# 26

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion:101 Resp: 206526

Ion Ratio Lower Upper

101 100

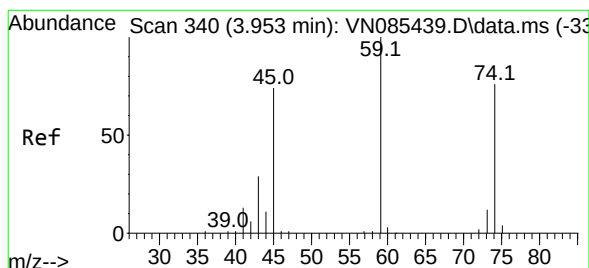
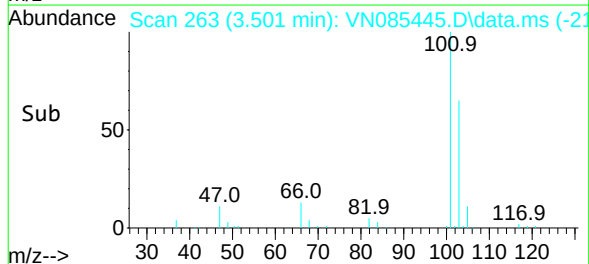
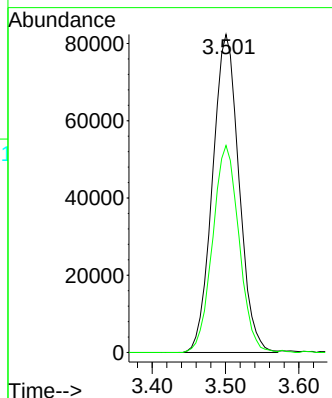
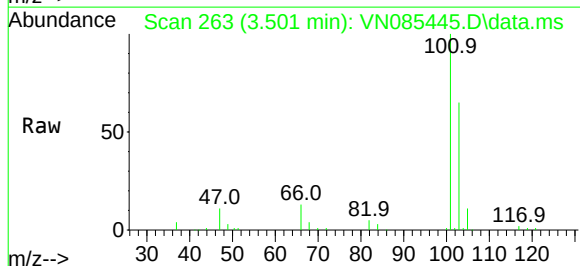
103 65.1 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#8

Diethyl Ether

Concen: 42.846 ug/l

RT: 3.959 min Scan# 341

Delta R.T. 0.006 min

Lab File: VN085445.D

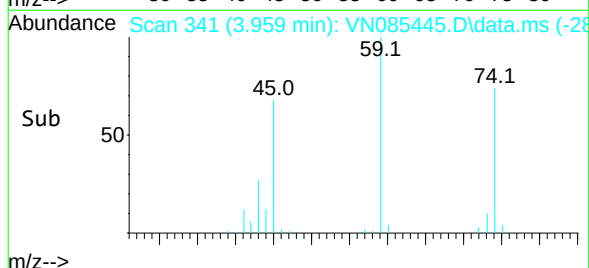
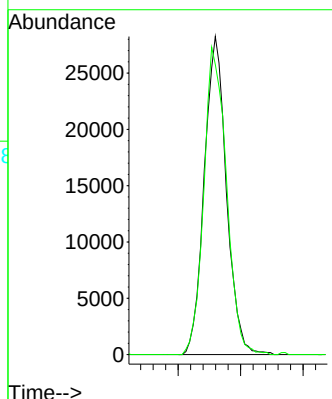
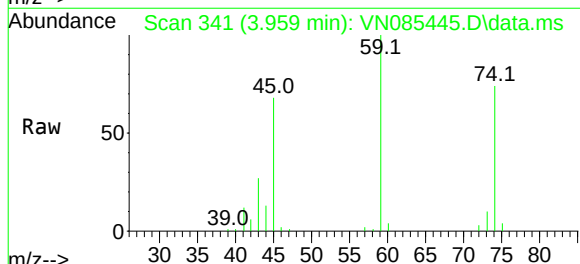
Acq: 14 Jan 2025 18:06

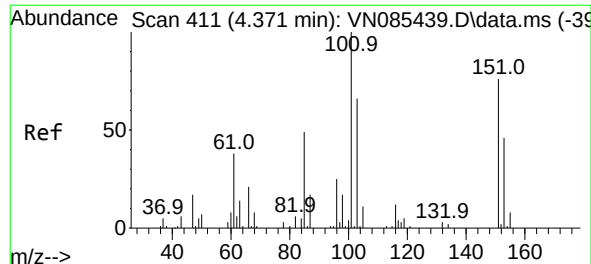
Tgt Ion: 74 Resp: 69545

Ion Ratio Lower Upper

74 100

45 99.0 49.7 149.1





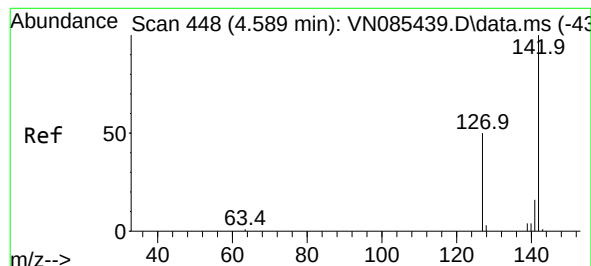
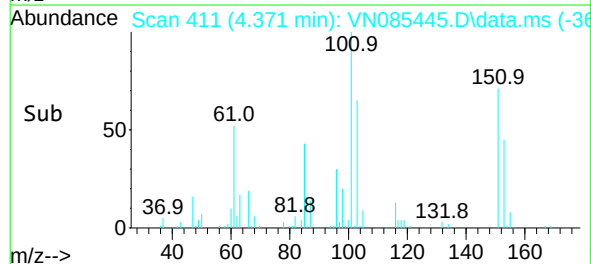
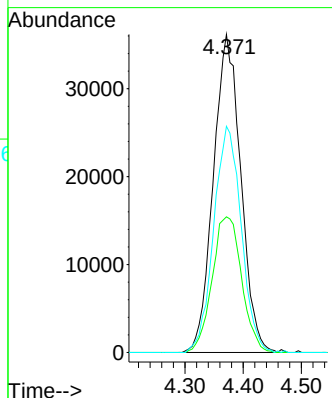
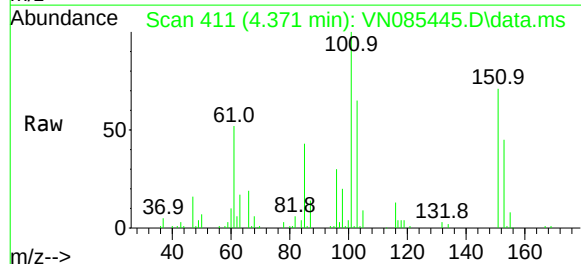
#9
1,1,2-Trichlorotrifluoroethane
Concen: 44.706 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion:101 Resp: 118310
Ion Ratio Lower Upper
101 100
85 45.9 37.8 56.8
151 71.5 58.8 88.2

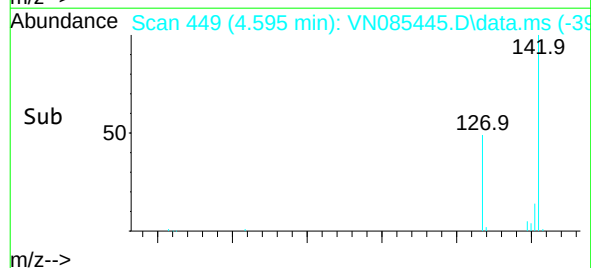
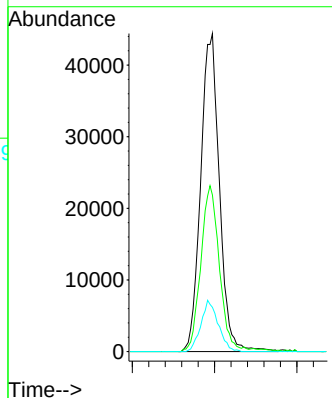
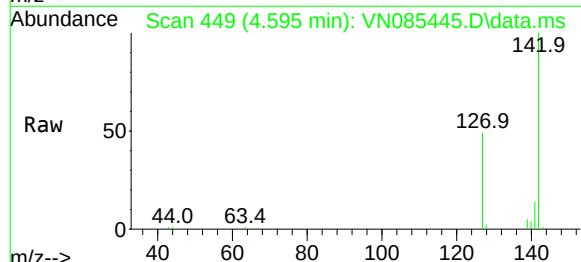
Manual Integrations
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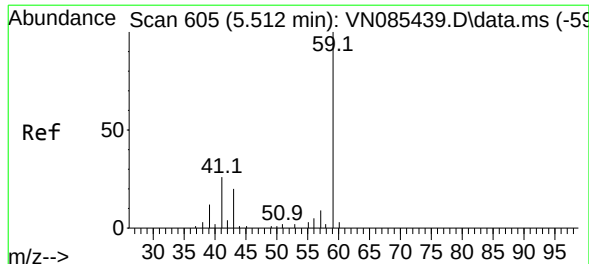
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#10
Methyl Iodide
Concen: 46.259 ug/l
RT: 4.595 min Scan# 449
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:142 Resp: 140190
Ion Ratio Lower Upper
142 100
127 49.2 40.3 60.5
141 13.9 12.8 19.2





#11

Tert butyl alcohol

Concen: 206.633 ug/l

RT: 5.518 min Scan# 605

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 59 Resp: 83933

Ion Ratio Lower Upper

59 100

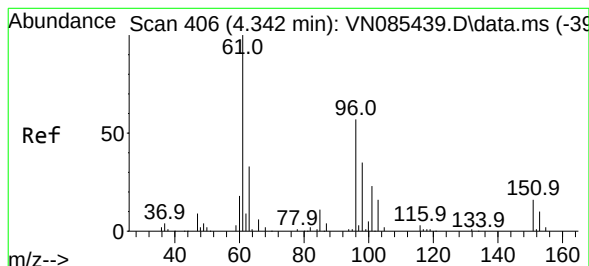
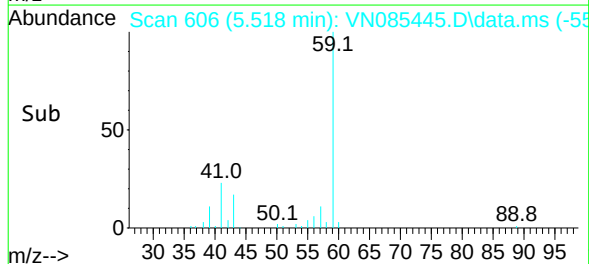
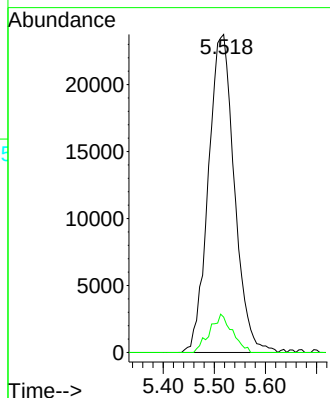
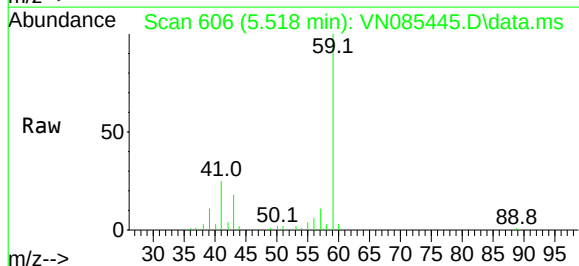
57 10.4 8.6 13.0

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Supervised By :Mahesh Dadoda 01/15/2025



#12

1,1-Dichloroethene

Concen: 45.317 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

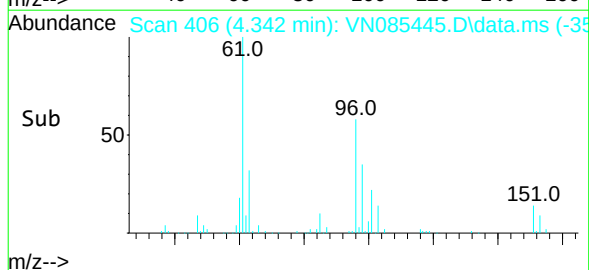
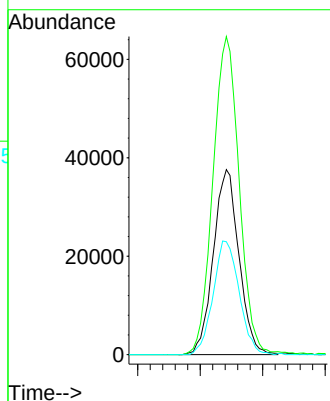
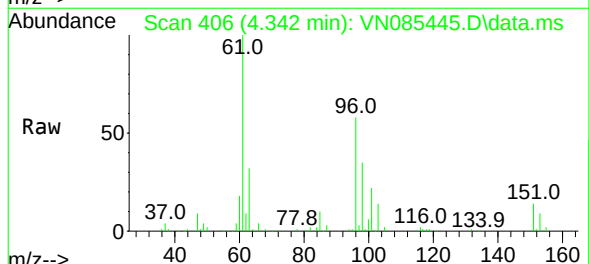
Tgt Ion: 96 Resp: 106880

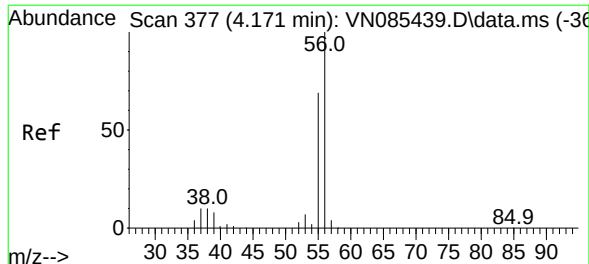
Ion Ratio Lower Upper

96 100

61 171.9 141.0 211.4

98 61.0 49.0 73.6





#13

Acrolein

Concen: 244.765 ug/l

RT: 4.177 min Scan# 37

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 56 Resp: 135720

Ion Ratio Lower Upper

56 100

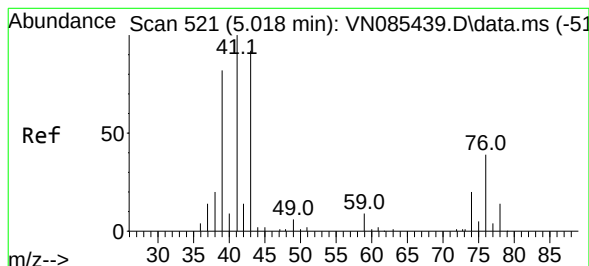
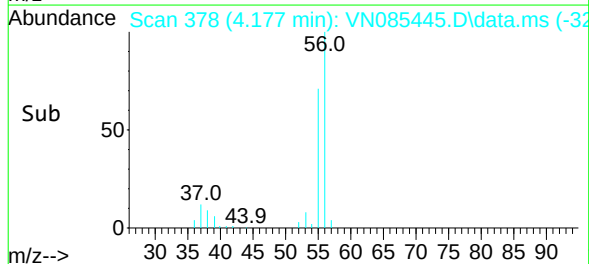
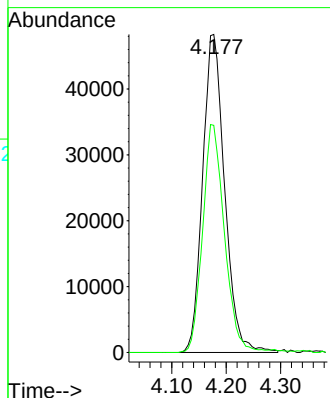
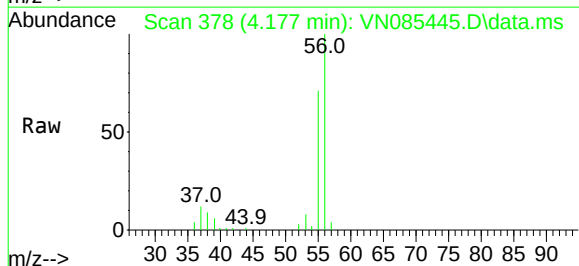
55 70.9 56.3 84.5

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Supervised By :Mahesh Dadoda 01/15/2025



#14

Allyl chloride

Concen: 44.501 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

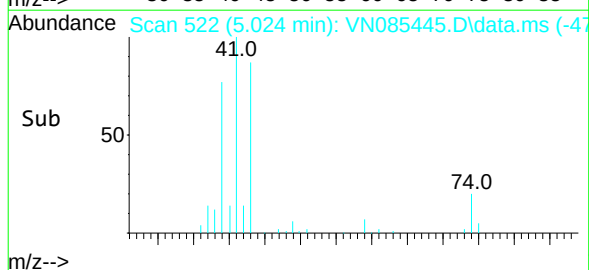
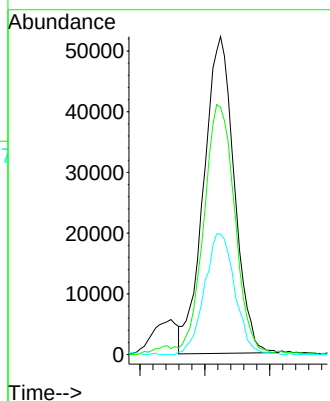
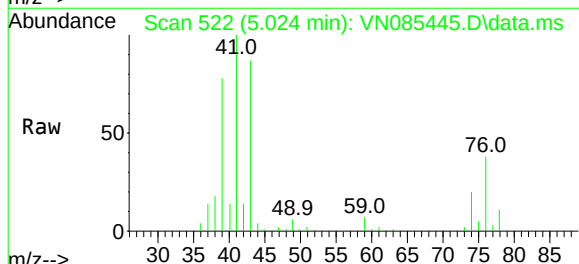
Tgt Ion: 41 Resp: 170308

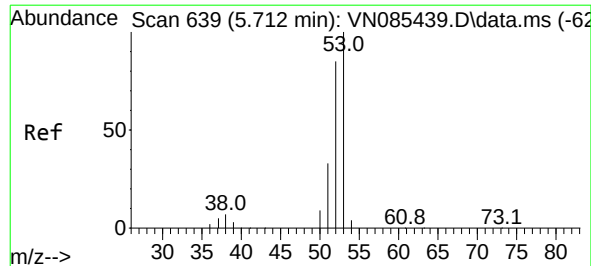
Ion Ratio Lower Upper

41 100

39 78.9 64.4 96.6

76 38.2 30.5 45.7





#15

Acrylonitrile

Concen: 227.920 ug/l

RT: 5.712 min Scan# 639

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 53 Resp: 294062

Ion Ratio Lower Upper

53 100

52 82.7 65.5 98.3

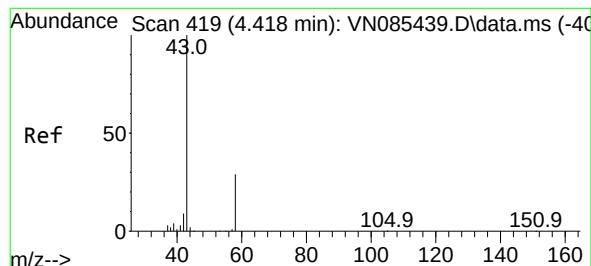
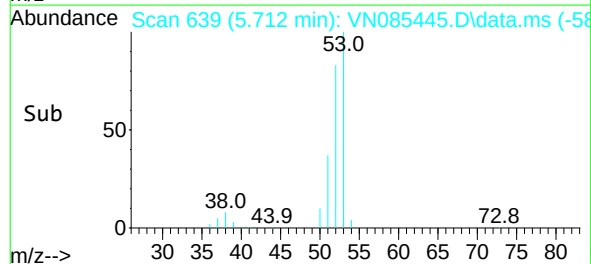
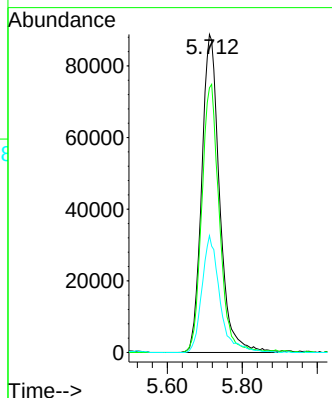
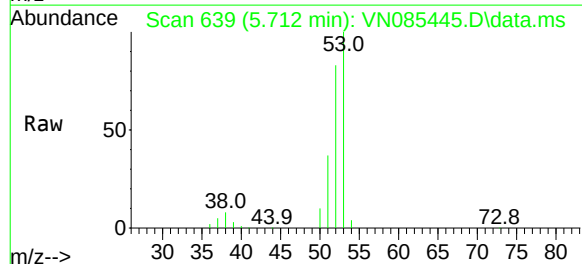
51 36.8 29.8 44.8

Manual Integrations

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Supervised By :Mahesh Dadoda 01/15/2025



#16

Acetone

Concen: 213.971 ug/l

RT: 4.418 min Scan# 419

Delta R.T. 0.000 min

Lab File: VN085445.D

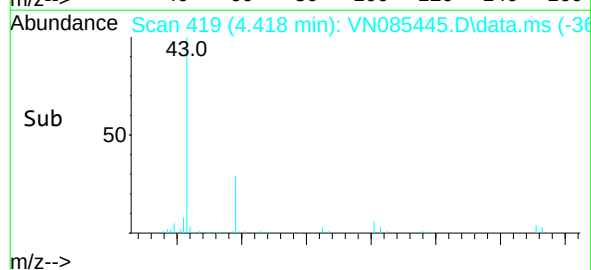
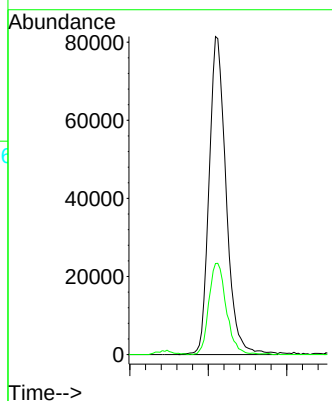
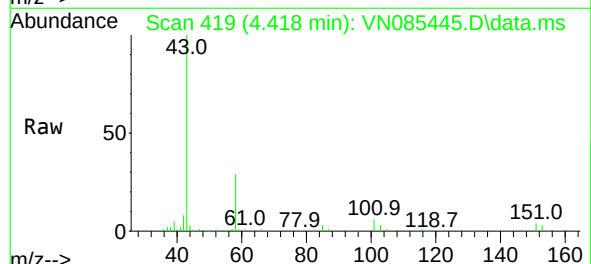
Acq: 14 Jan 2025 18:06

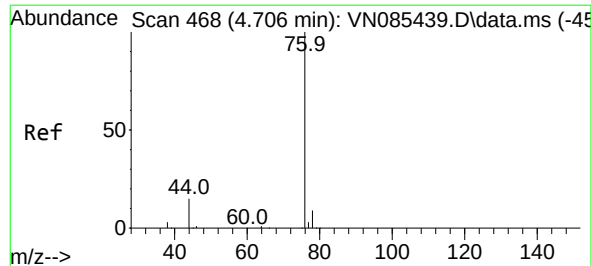
Tgt Ion: 43 Resp: 245248

Ion Ratio Lower Upper

43 100

58 28.4 23.8 35.6





#17

Carbon Disulfide

Concen: 41.342 ug/l

RT: 4.712 min Scan# 468

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion: 76 Resp: 300215

Ion Ratio Lower Upper

76 100

78 8.7 6.9 10.3

Instrument :

MSVOA_N

ClientSampleId :

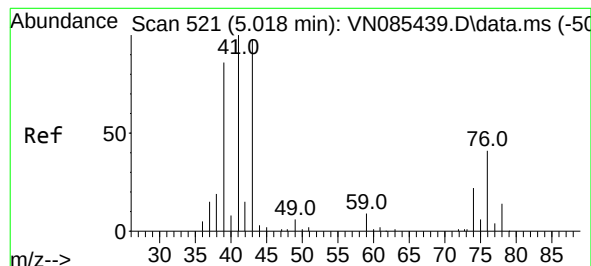
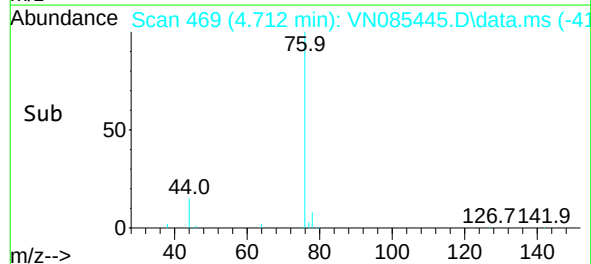
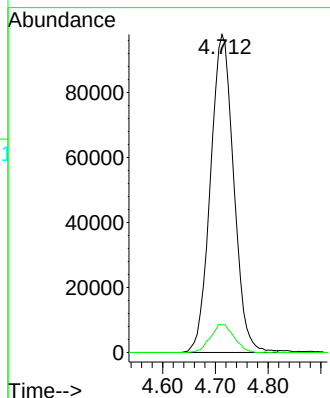
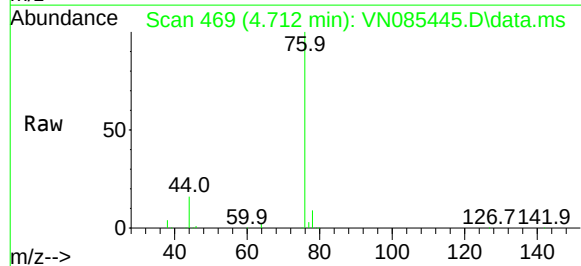
ICVVN011425

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#18

Methyl Acetate

Concen: 45.028 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085445.D

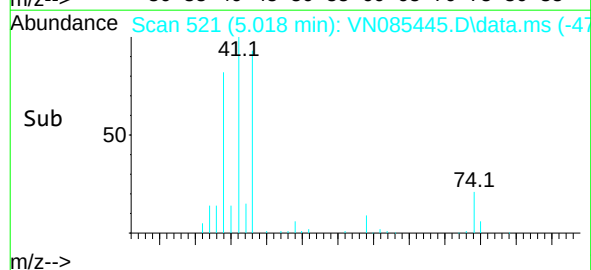
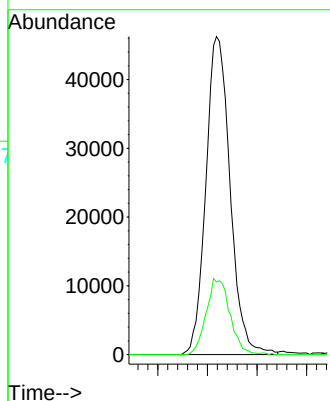
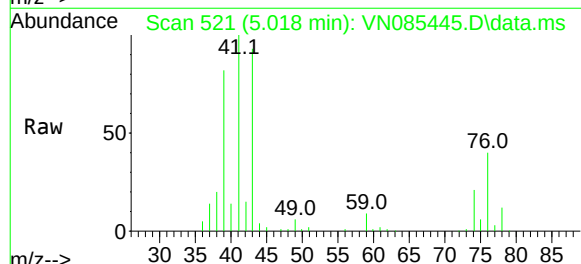
Acq: 14 Jan 2025 18:06

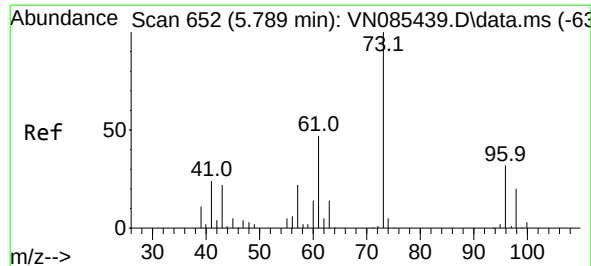
Tgt Ion: 43 Resp: 156938

Ion Ratio Lower Upper

43 100

74 23.4 18.6 28.0





#19

Methyl tert-butyl Ether

Concen: 47.768 ug/l

RT: 5.795 min Scan# 65

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 73 Resp: 365819

Ion Ratio Lower Upper

73 100

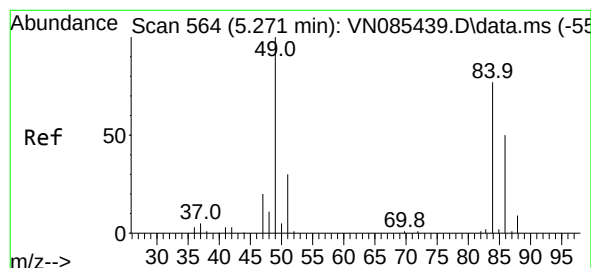
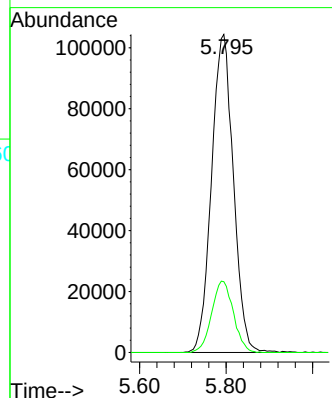
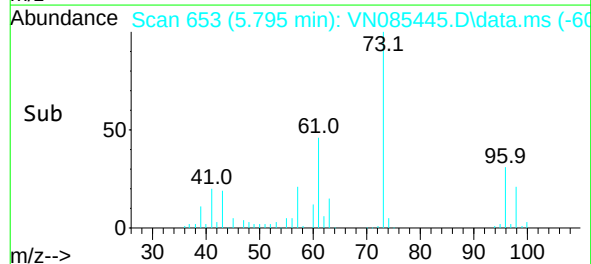
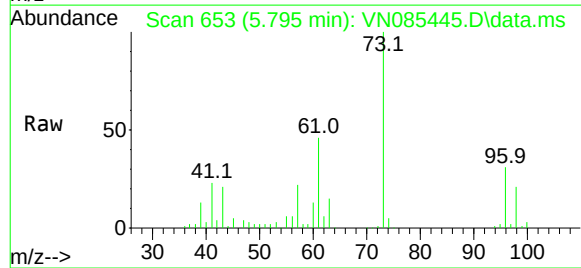
57 22.3 17.8 26.8

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#20

Methylene Chloride

Concen: 43.017 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion: 84 Resp: 122059

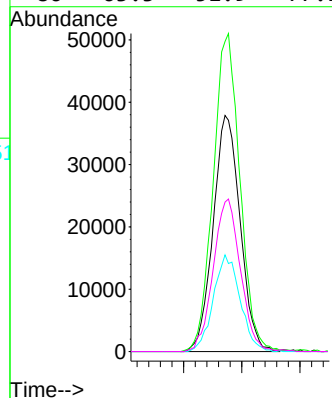
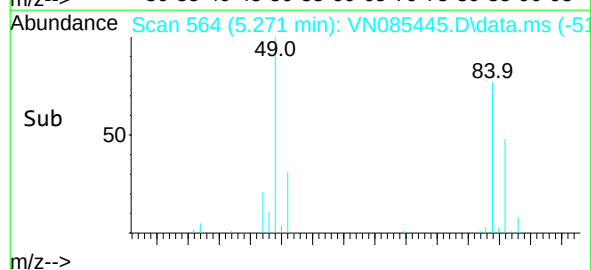
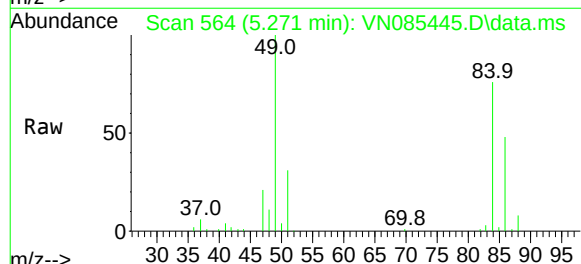
Ion Ratio Lower Upper

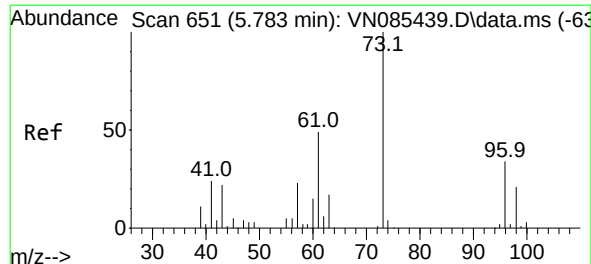
84 100

49 131.3 104.1 156.1

51 41.0 31.0 46.4

86 63.3 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 44.672 ug/l

RT: 5.783 min Scan# 651

Delta R.T. 0.000 min

Lab File: VN085445.D

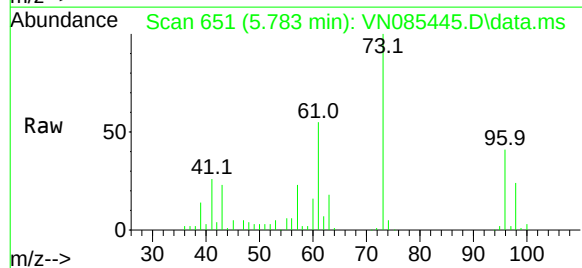
Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

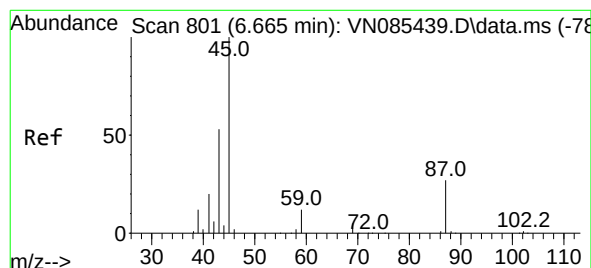
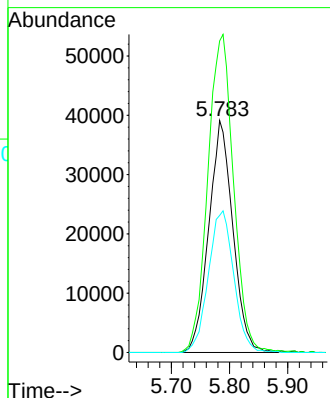
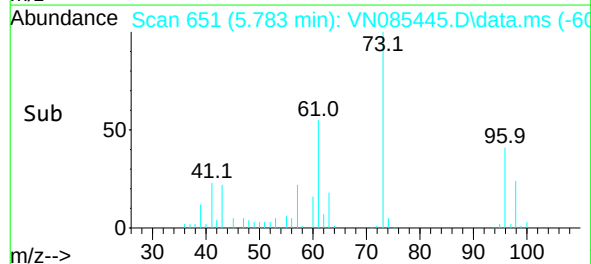
ICVVN011425



Tgt Ion:	96	Resp:	112597
Ion	Ratio	Lower	Upper
96	100		
61	134.3	115.7	173.5
98	59.1	49.8	74.8

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Supervised By :Mahesh Dadoda 01/15/2025



#22

Diisopropyl ether

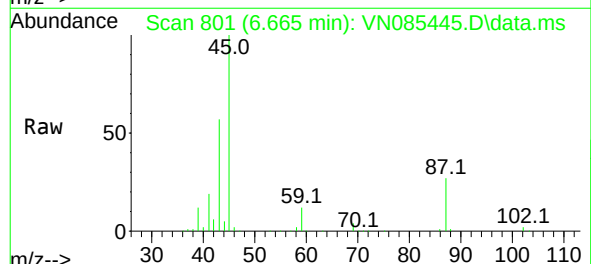
Concen: 46.996 ug/l

RT: 6.665 min Scan# 801

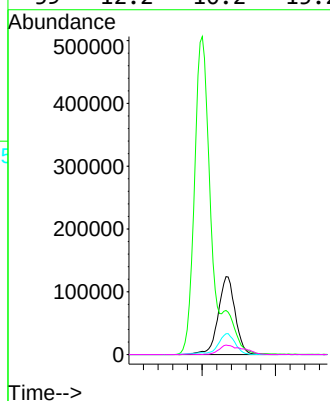
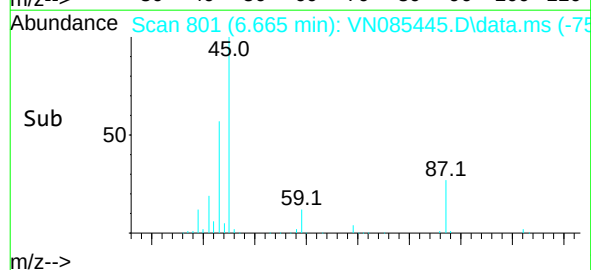
Delta R.T. 0.000 min

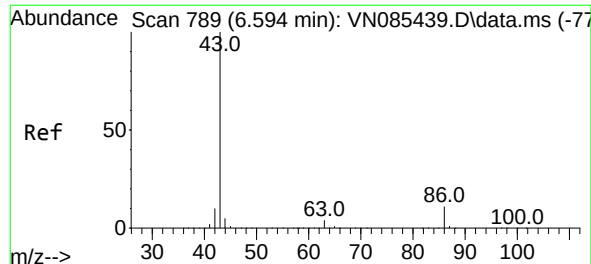
Lab File: VN085445.D

Acq: 14 Jan 2025 18:06



Tgt Ion:	45	Resp:	399206
Ion	Ratio	Lower	Upper
45	100		
43	56.0	45.0	67.6
87	26.8	21.8	32.8
59	12.2	10.2	15.2





#23

Vinyl Acetate

Concen: 247.459 ug/l

RT: 6.601 min Scan# 790

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 43 Resp: 1471068

Ion Ratio Lower Upper

43 100

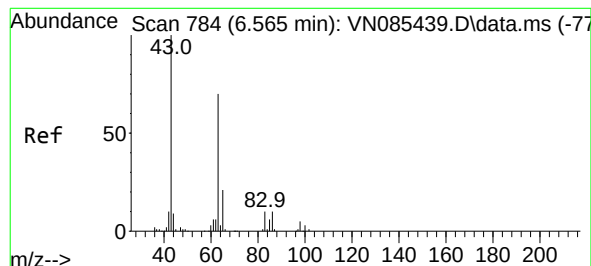
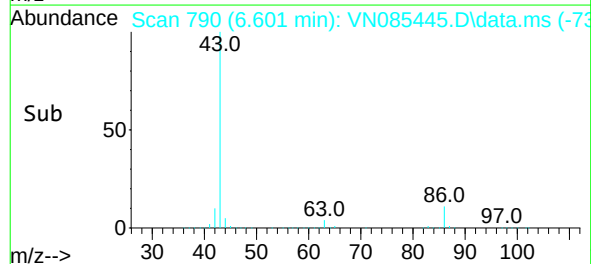
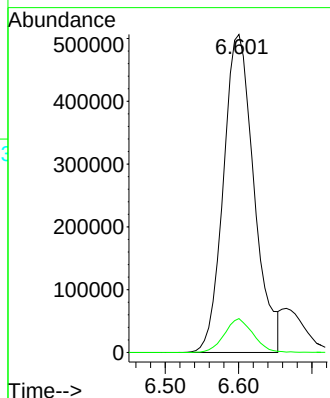
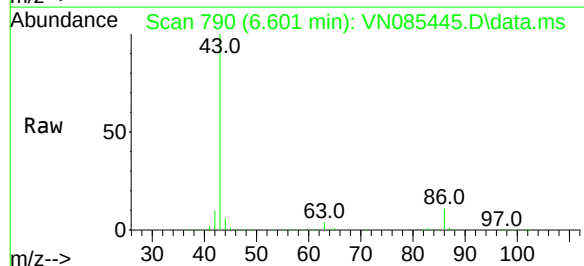
86 10.7 8.4 12.6

Manual Integrations

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Supervised By :Mahesh Dadoda 01/15/2025



#24

1,1-Dichloroethane

Concen: 44.114 ug/l

RT: 6.571 min Scan# 785

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

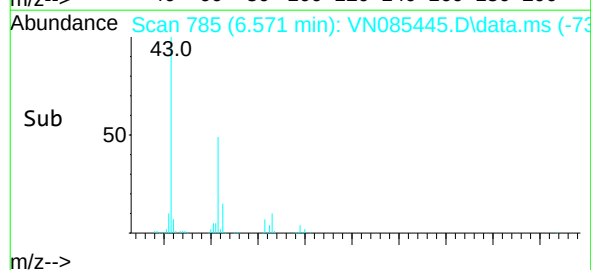
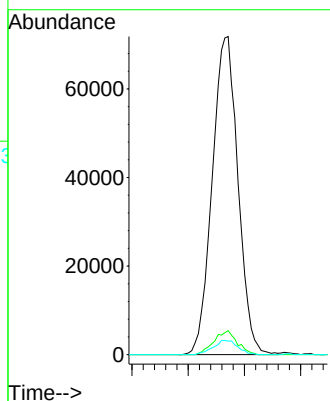
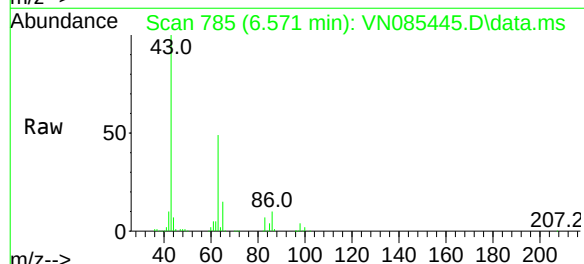
Tgt Ion: 63 Resp: 228489

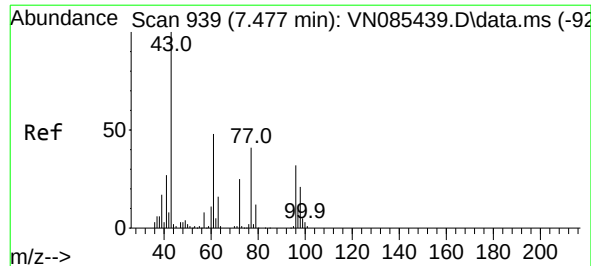
Ion Ratio Lower Upper

63 100

98 7.5 3.3 9.8

100 4.2 2.0 6.0





#25

2-Butanone

Concen: 228.924 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 43 Resp: 386125

Ion Ratio Lower Upper

43 100

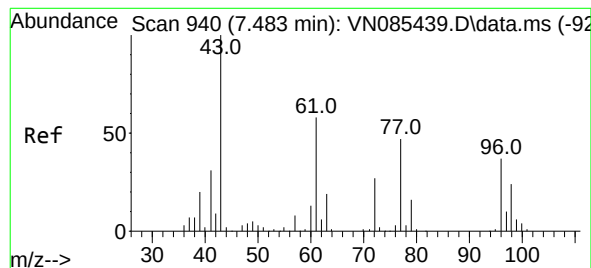
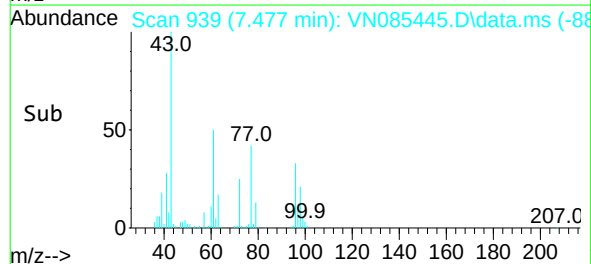
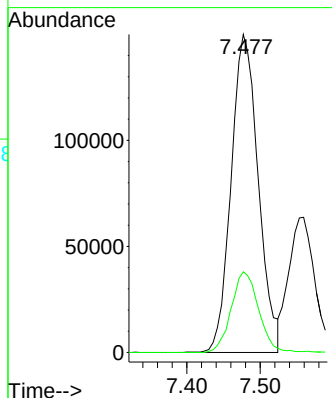
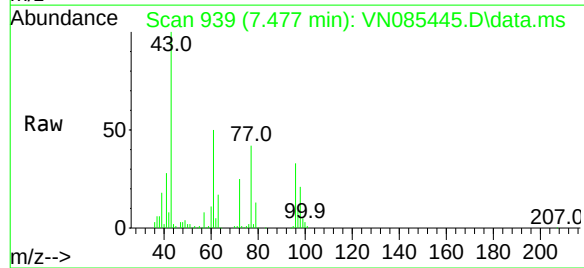
72 25.4 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#26

2,2-Dichloropropane

Concen: 47.593 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085445.D

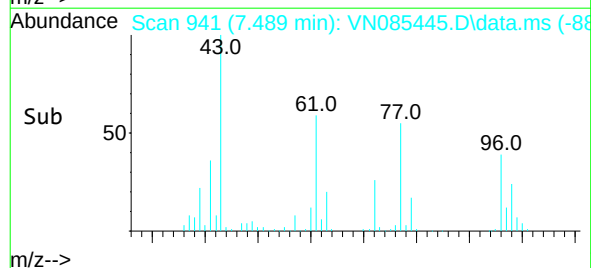
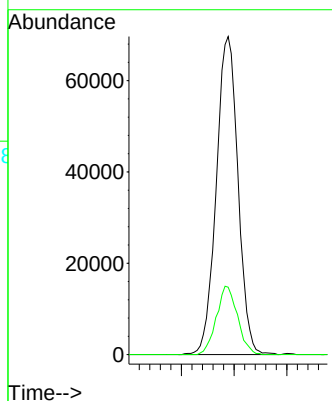
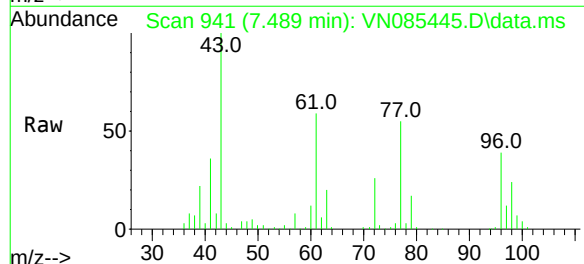
Acq: 14 Jan 2025 18:06

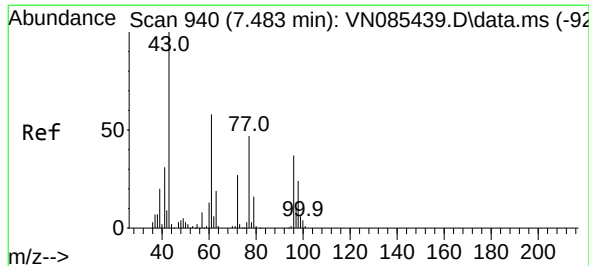
Tgt Ion: 77 Resp: 199303

Ion Ratio Lower Upper

77 100

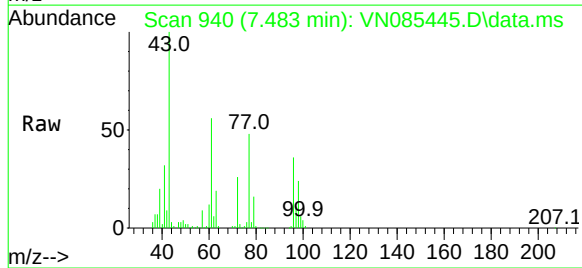
97 20.9 10.7 32.1





#27
cis-1,2-Dichloroethene
Concen: 45.446 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

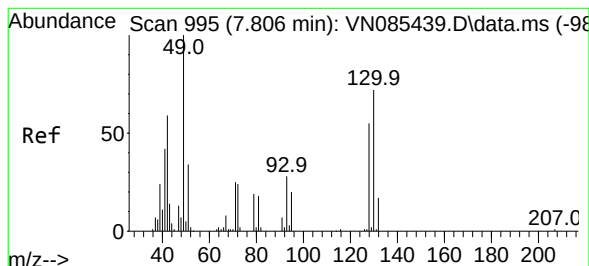
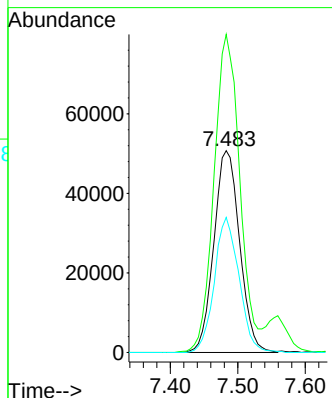
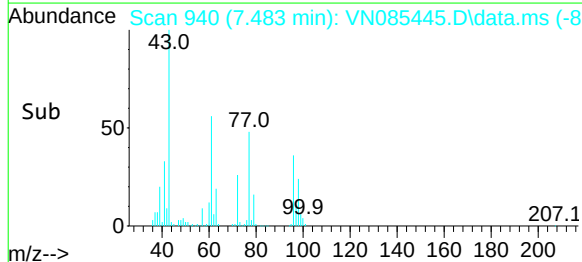
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425



Tgt Ion: 96 Resp: 134920
Ion Ratio Lower Upper
96 100
61 158.0 0.0 311.8
98 64.1 0.0 126.0

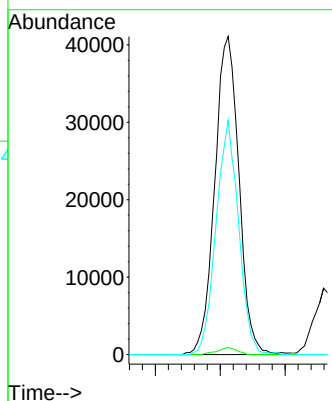
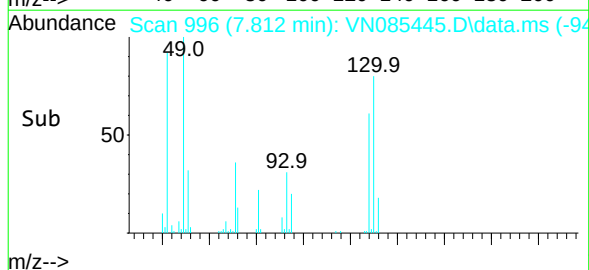
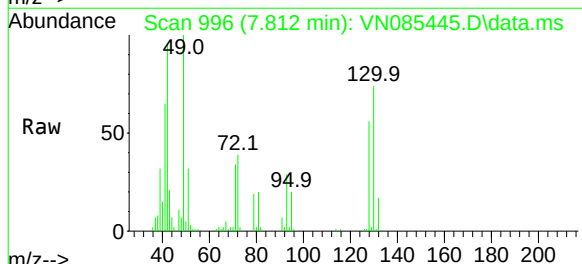
Manual Integrations
APPROVED

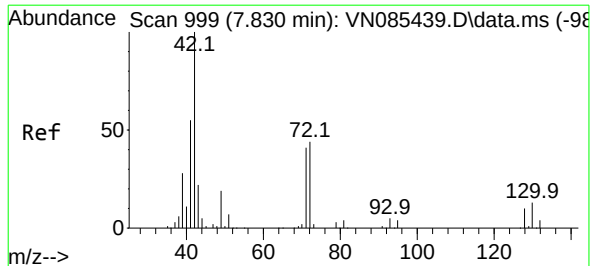
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#28
Bromochloromethane
Concen: 44.122 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 49 Resp: 106323
Ion Ratio Lower Upper
49 100
129 1.8 0.0 4.4
130 68.6 55.0 82.4





#29

Tetrahydrofuran

Concen: 239.065 ug/l

RT: 7.836 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 42 Resp: 255650

Ion Ratio Lower Upper

42 100

72 42.5 34.2 51.2

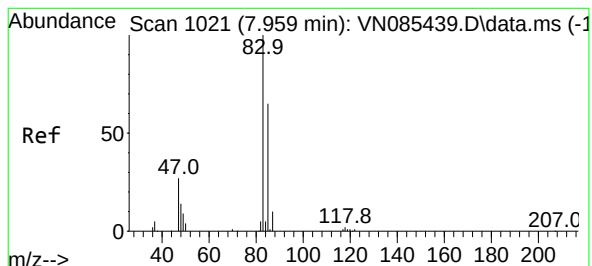
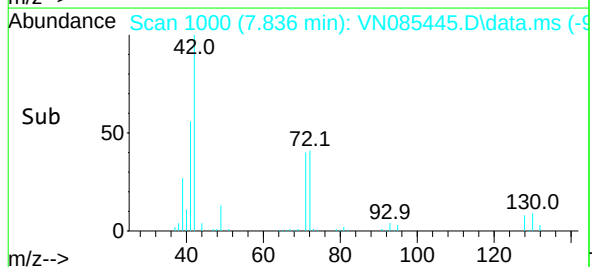
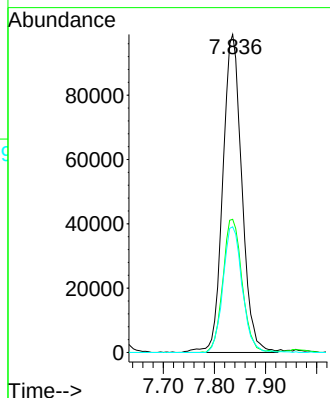
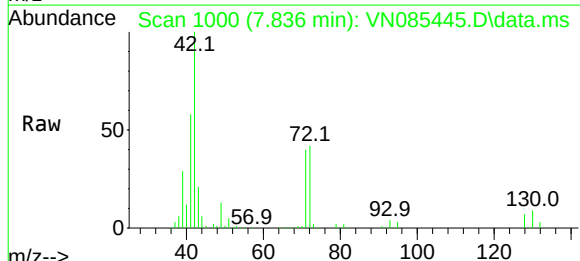
71 39.9 32.5 48.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#30

Chloroform

Concen: 44.071 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085445.D

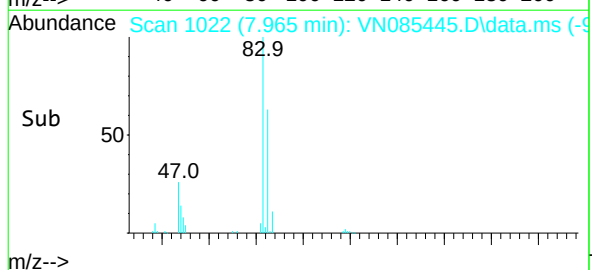
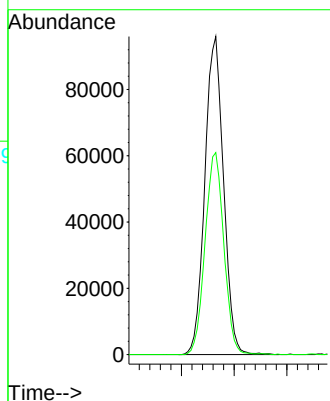
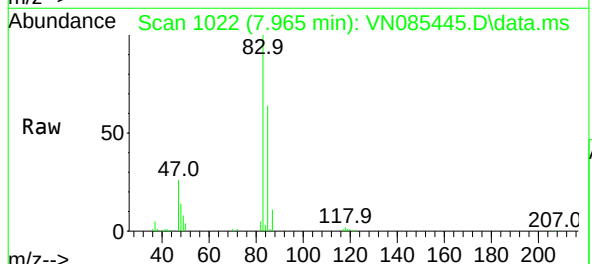
Acq: 14 Jan 2025 18:06

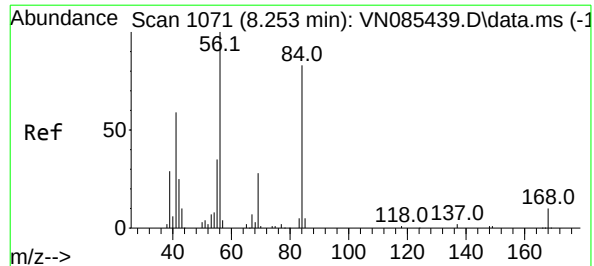
Tgt Ion: 83 Resp: 235923

Ion Ratio Lower Upper

83 100

85 63.5 51.8 77.6





#31

Cyclohexane

Concen: 42.878 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 56 Resp: 193034

Ion Ratio Lower Upper

56 100

69 30.5 22.2 33.4

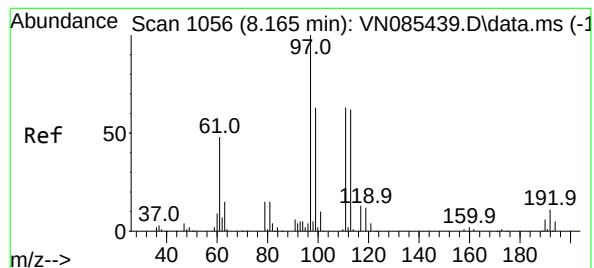
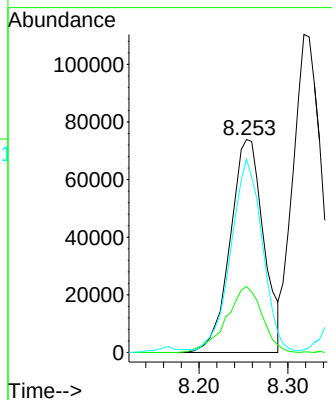
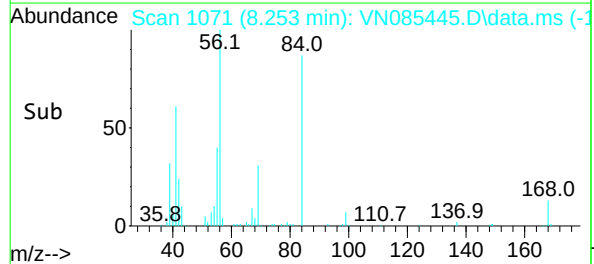
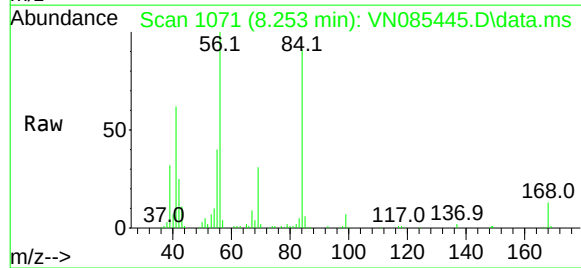
84 89.4 66.4 99.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#32

1,1,1-Trichloroethane

Concen: 44.332 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

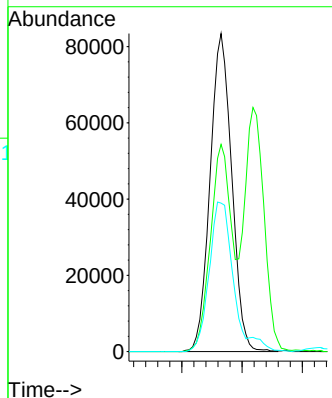
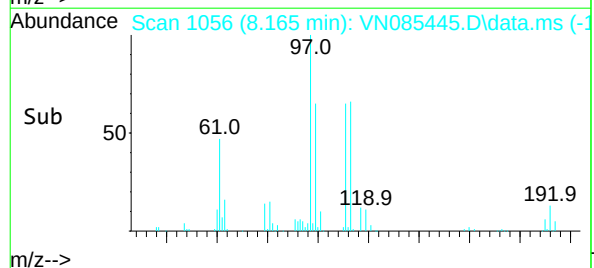
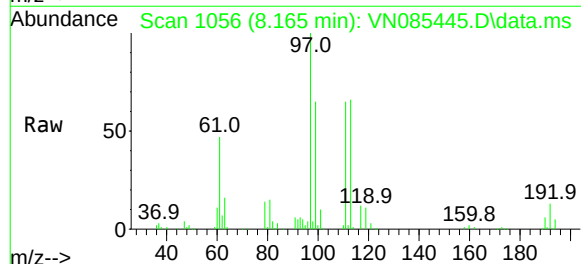
Tgt Ion: 97 Resp: 208172

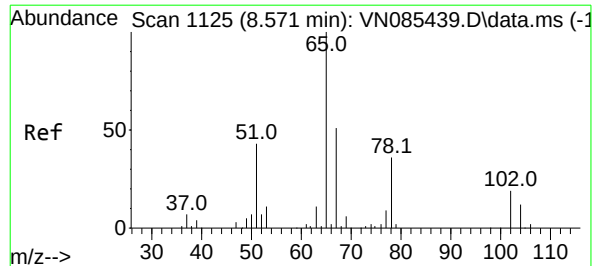
Ion Ratio Lower Upper

97 100

99 61.8 49.8 74.6

61 52.8 41.4 62.2





#33

1,2-Dichloroethane-d4

Concen: 49.782 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 65 Resp: 176594

Ion Ratio Lower Upper

65 100

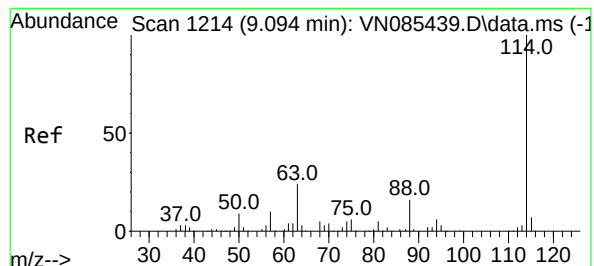
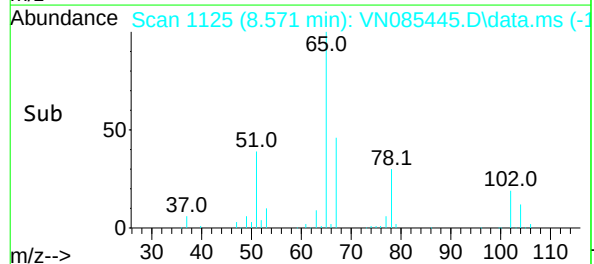
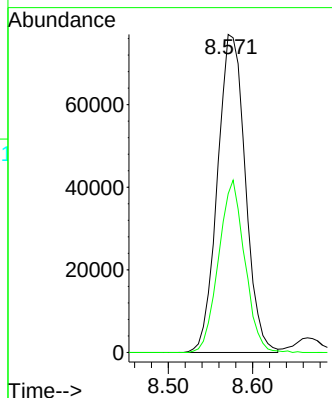
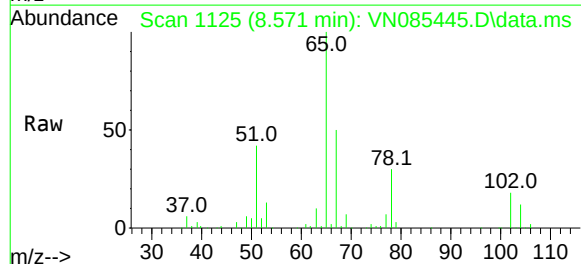
67 50.9 0.0 101.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

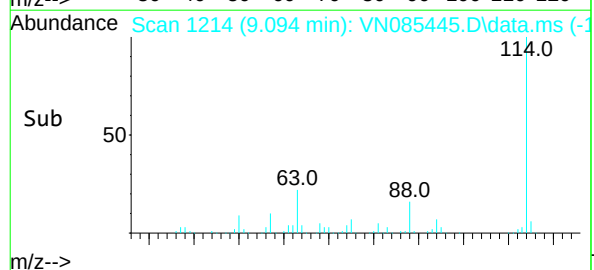
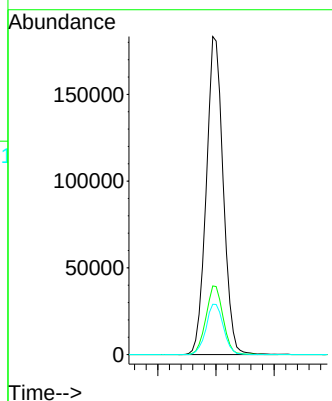
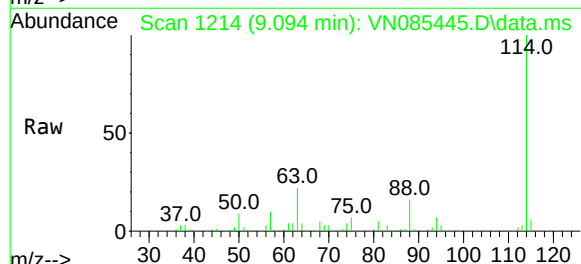
Tgt Ion:114 Resp: 370487

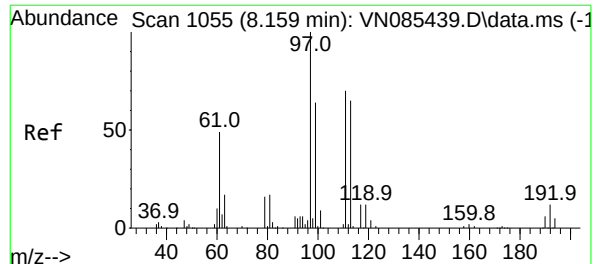
Ion Ratio Lower Upper

114 100

63 21.6 0.0 47.6

88 15.8 0.0 32.6





#35

Dibromofluoromethane

Concen: 50.768 ug/l

RT: 8.165 min Scan# 1055

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion:113 Resp: 130487

Ion Ratio Lower Upper

113 100

111 102.5 82.7 124.1

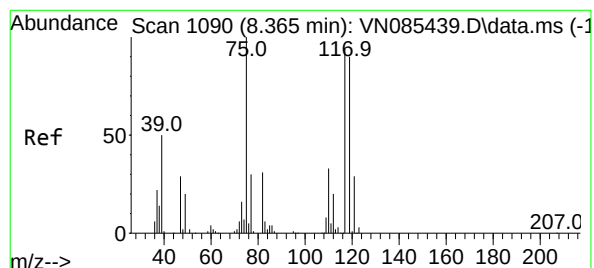
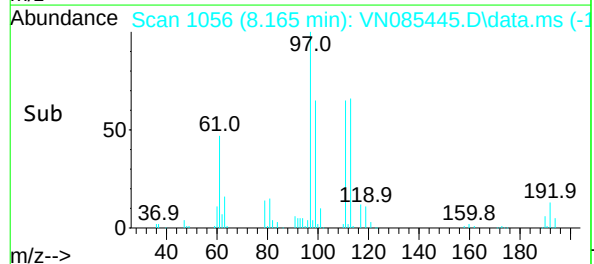
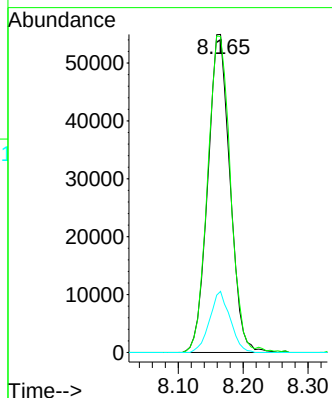
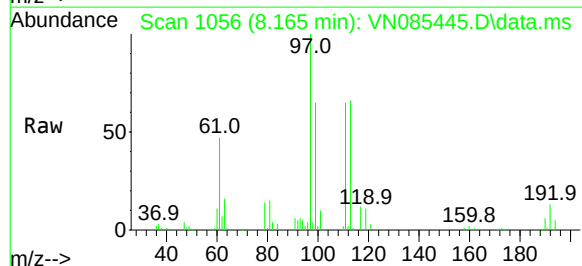
192 17.7 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#36

1,1-Dichloropropene

Concen: 44.863 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

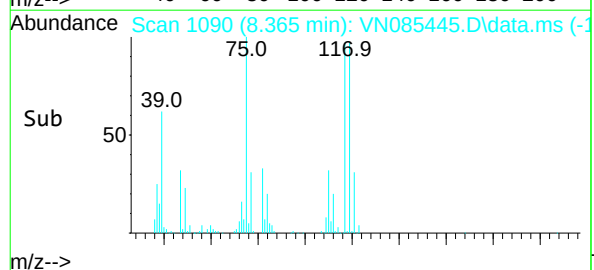
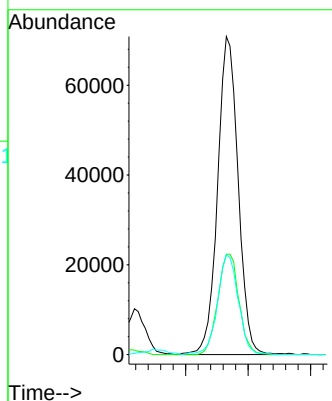
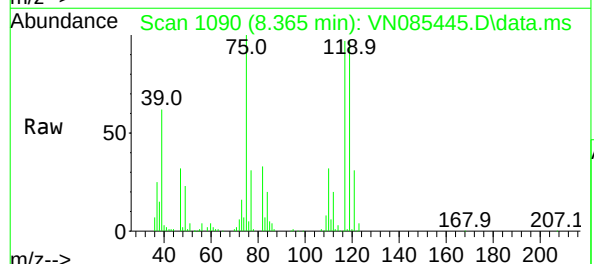
Tgt Ion: 75 Resp: 161834

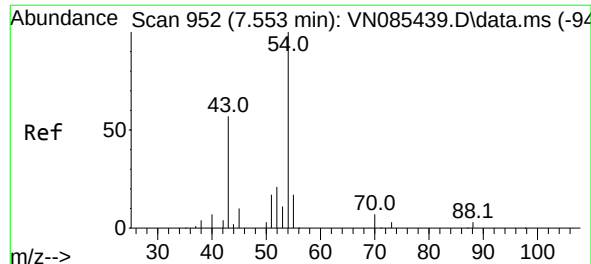
Ion Ratio Lower Upper

75 100

110 32.4 16.5 49.5

77 31.8 24.4 36.6





#37

Ethyl Acetate

Concen: 44.123 ug/l

RT: 7.559 min Scan# 952

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

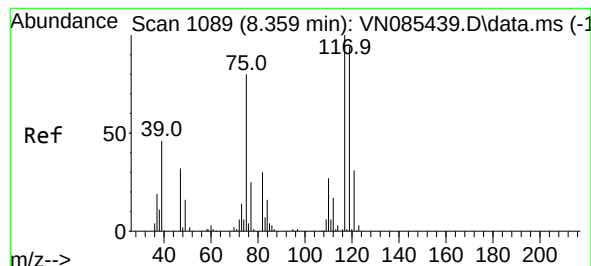
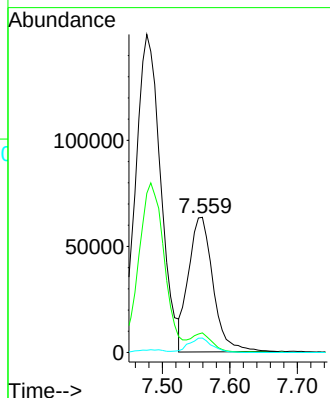
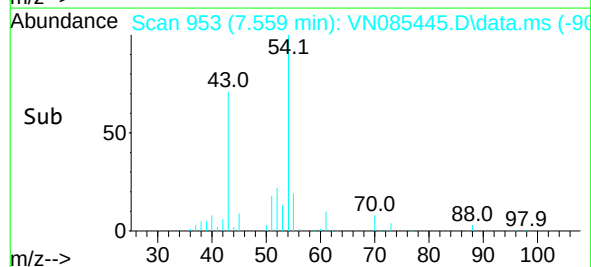
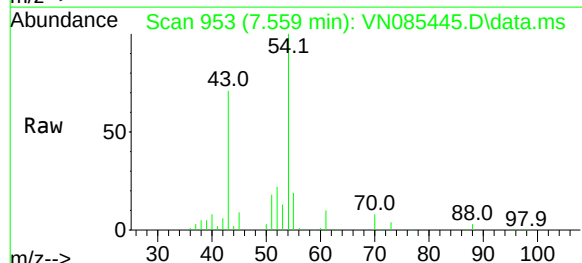
ClientSampleId :

ICVVN011425

Tgt Ion:	43	Resp:	160656
Ion	Ratio	Lower	Upper
43	100		
61	11.9	10.9	16.3
70	10.2	7.5	11.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#38

Carbon Tetrachloride

Concen: 44.456 ug/l

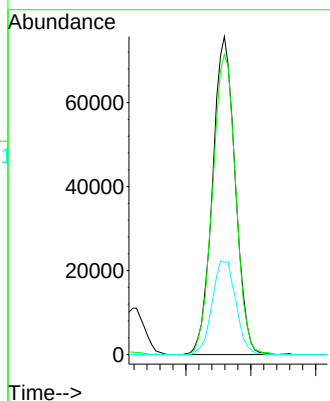
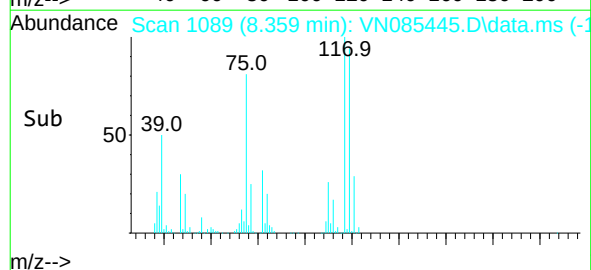
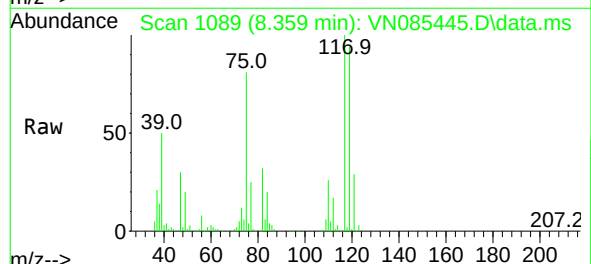
RT: 8.359 min Scan# 1089

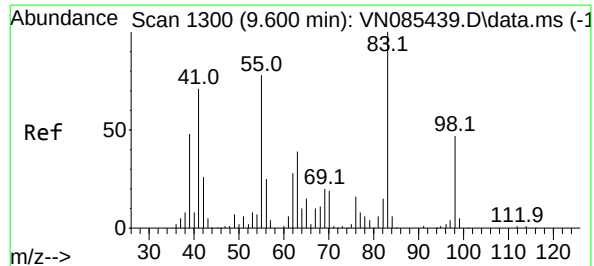
Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion:	117	Resp:	183592
Ion	Ratio	Lower	Upper
117	100		
119	94.4	75.4	113.2
121	29.0	24.6	37.0





#39

Methylcyclohexane

Concen: 49.687 ug/l

RT: 9.600 min Scan# 13

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 83 Resp: 168431

Ion Ratio Lower Upper

83 100

55 80.9 62.6 94.0

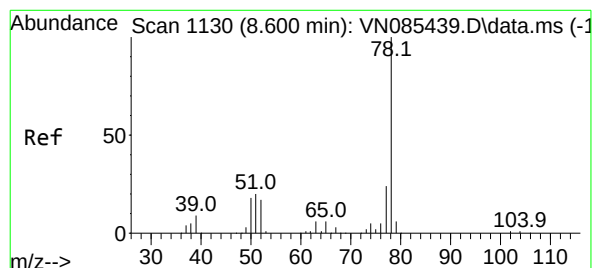
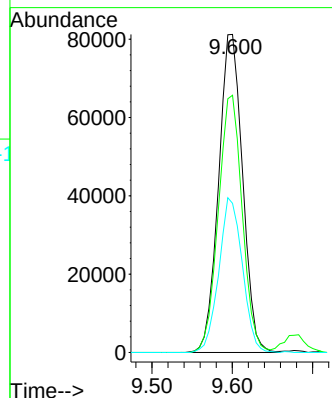
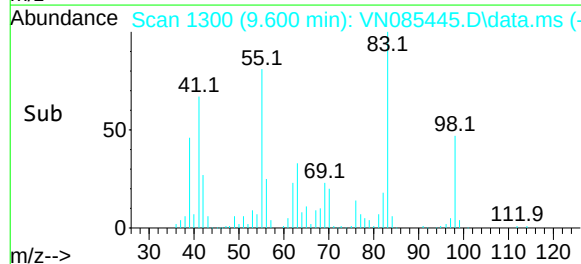
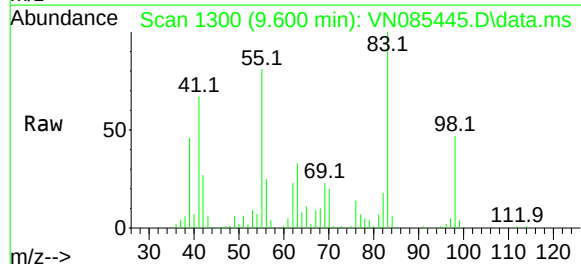
98 46.9 37.7 56.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#40

Benzene

Concen: 45.657 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085445.D

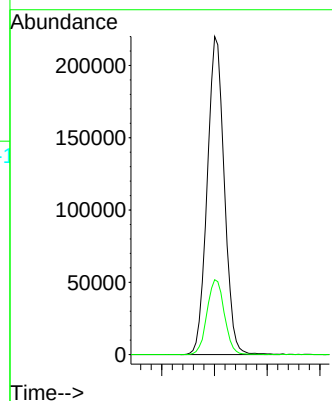
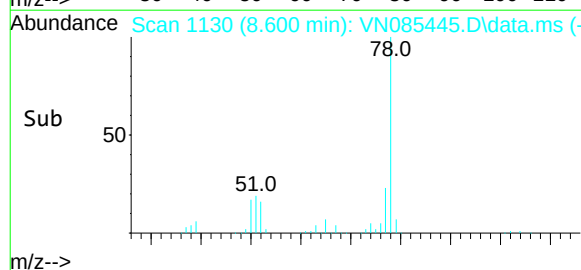
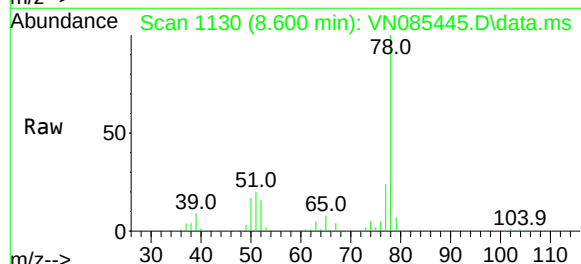
Acq: 14 Jan 2025 18:06

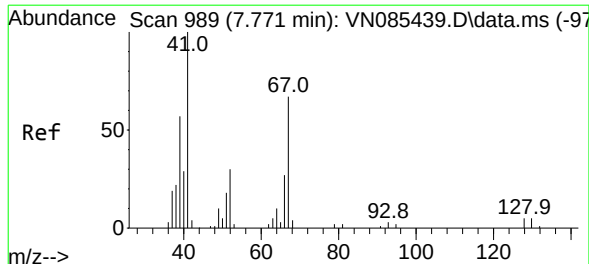
Tgt Ion: 78 Resp: 494871

Ion Ratio Lower Upper

78 100

77 23.5 19.0 28.6





#41

Methacrylonitrile

Concen: 47.155 ug/l

RT: 7.777 min Scan# 99

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 41 Resp: 89326

Ion Ratio Lower Upper

41 100

39 56.6 46.0 69.0

67 70.9 57.4 86.2

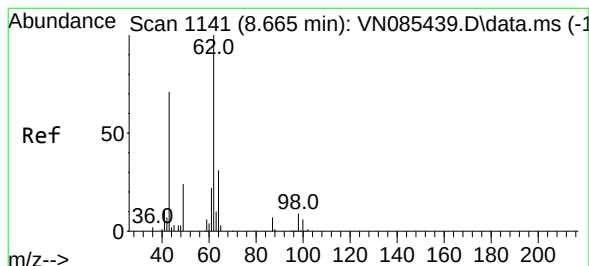
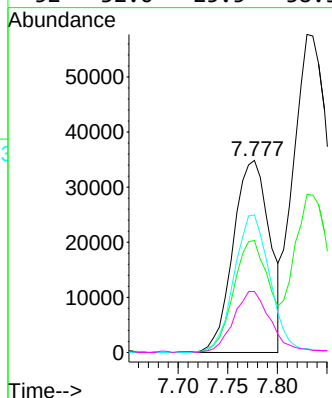
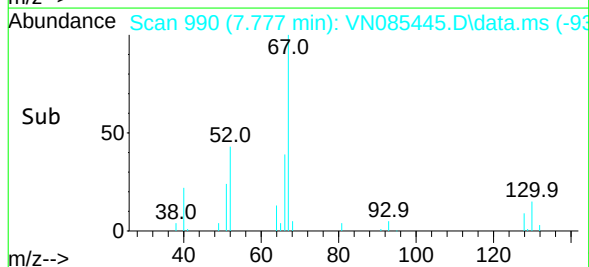
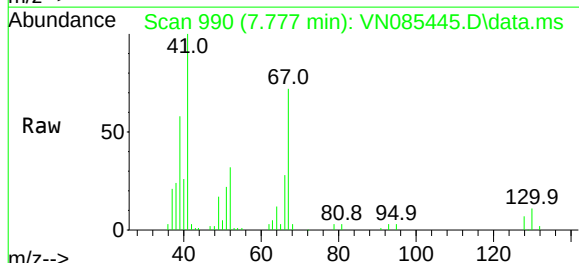
52 32.6 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#42

1,2-Dichloroethane

Concen: 45.481 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. 0.000 min

Lab File: VN085445.D

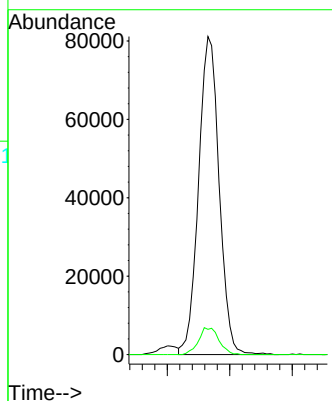
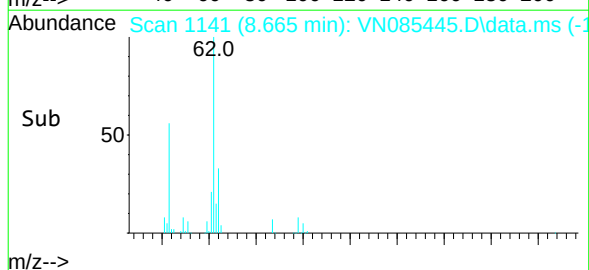
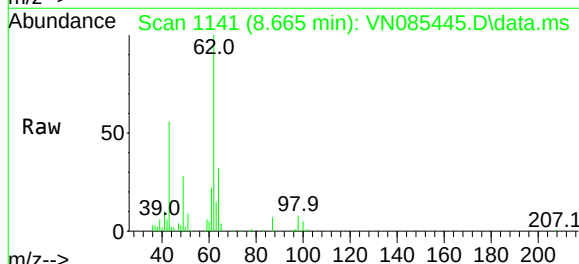
Acq: 14 Jan 2025 18:06

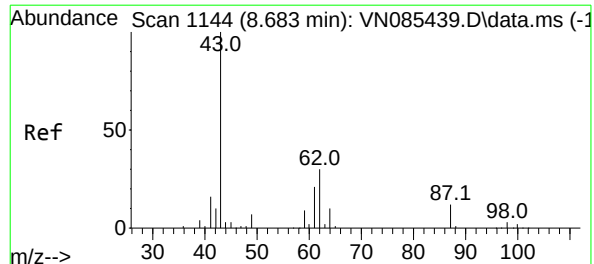
Tgt Ion: 62 Resp: 185663

Ion Ratio Lower Upper

62 100

98 8.3 0.0 17.0





#43

Isopropyl Acetate

Concen: 45.440 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

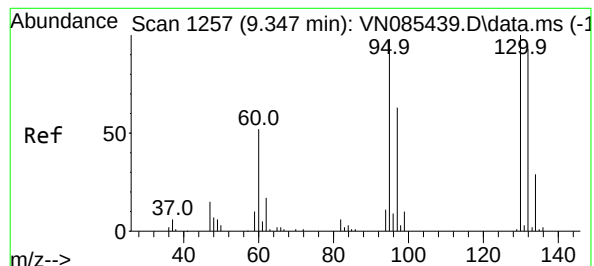
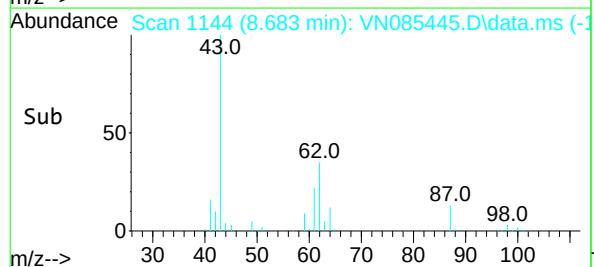
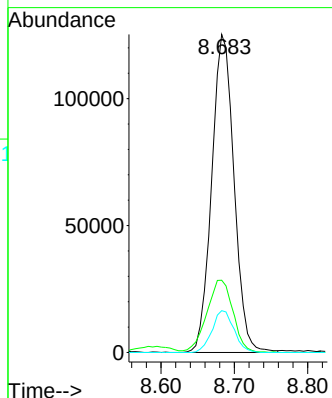
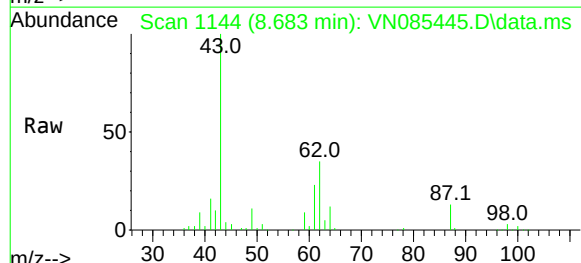
ICVVN011425

Tgt Ion:	43	Resp:	265107
Ion	Ratio	Lower	Upper
43	100		
61	26.7	20.7	31.1
87	12.9	9.8	14.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#44

Trichloroethene

Concen: 43.622 ug/l

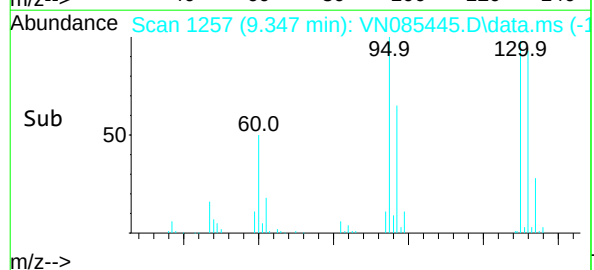
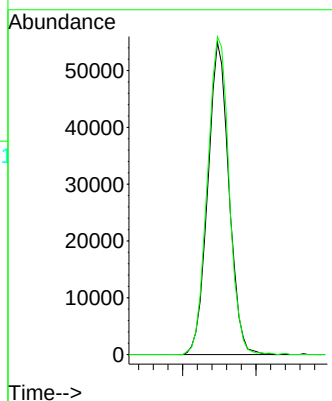
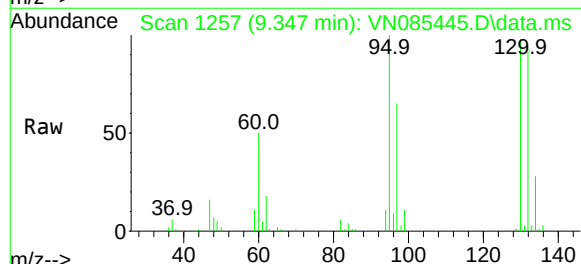
RT: 9.347 min Scan# 1257

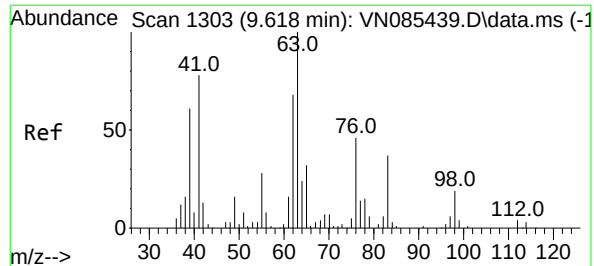
Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion:	130	Resp:	110058
Ion	Ratio	Lower	Upper
130	100		
95	101.9	0.0	195.8





#45

1,2-Dichloropropane

Concen: 44.744 ug/l

RT: 9.618 min Scan# 13

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 63 Resp: 123876

Ion Ratio Lower Upper

63 100

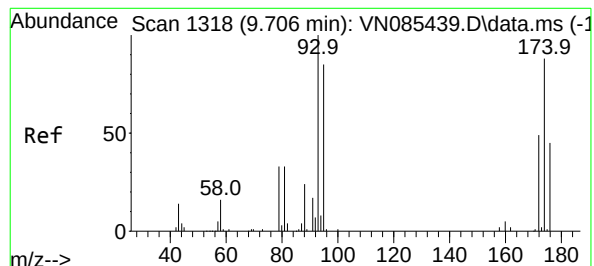
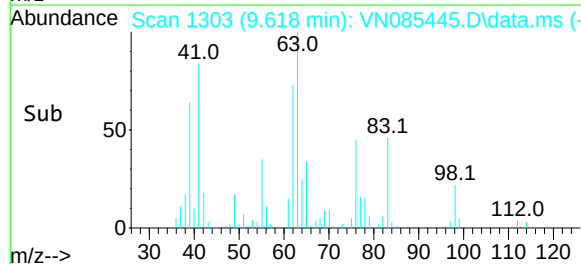
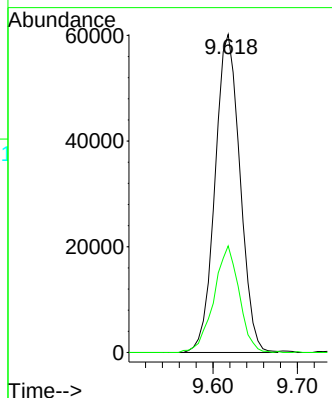
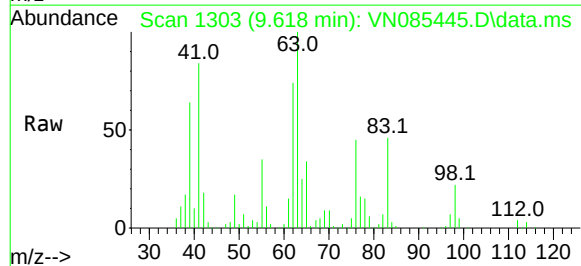
65 33.5 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#46

Dibromomethane

Concen: 44.214 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. -0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

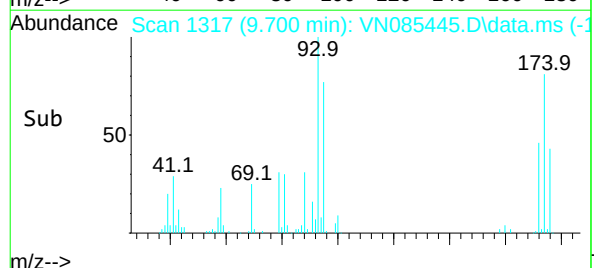
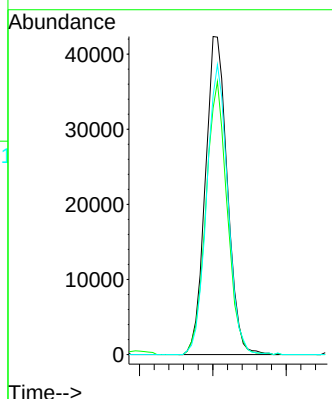
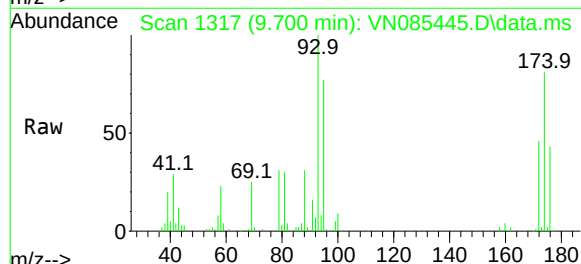
Tgt Ion: 93 Resp: 88325

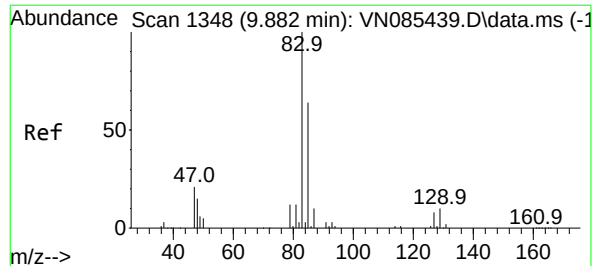
Ion Ratio Lower Upper

93 100

95 82.9 64.7 97.1

174 88.0 69.0 103.4





#47

Bromodichloromethane

Concen: 45.655 ug/l

RT: 9.889 min Scan# 1348

Delta R.T. 0.007 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 83 Resp: 185808

Ion Ratio Lower Upper

83 100

85 63.5 51.2 76.8

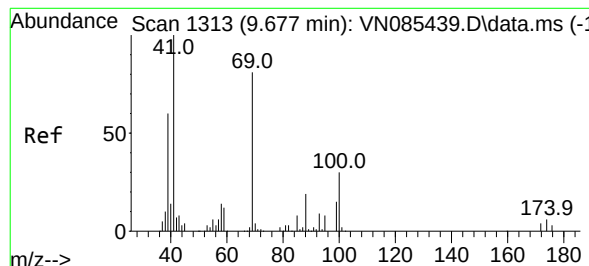
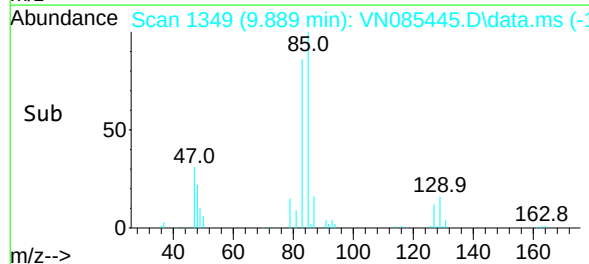
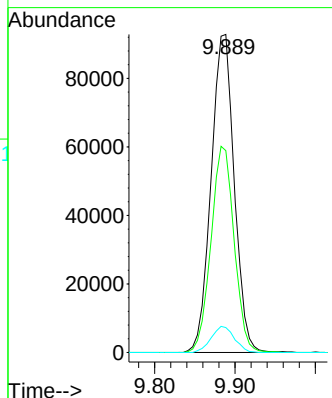
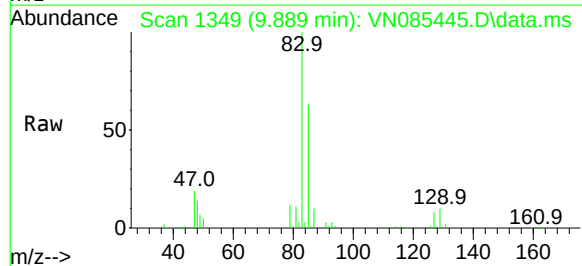
127 7.8 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#48

Methyl methacrylate

Concen: 49.948 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

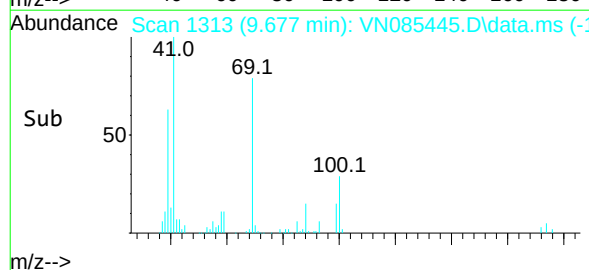
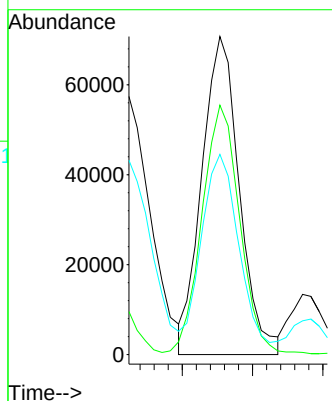
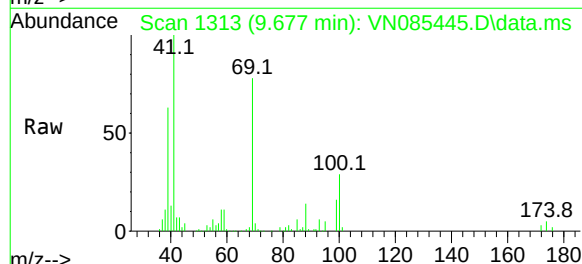
Tgt Ion: 41 Resp: 131142

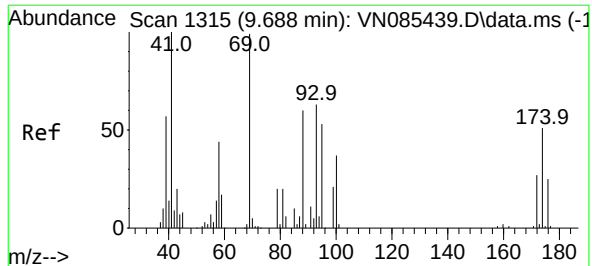
Ion Ratio Lower Upper

41 100

69 78.6 64.7 97.1

39 63.3 49.0 73.6





#49

1,4-Dioxane

Concen: 792.760 ug/l

RT: 9.689 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 88 Resp: 35051

Ion Ratio Lower Upper

88 100

43 33.8 26.6 39.8

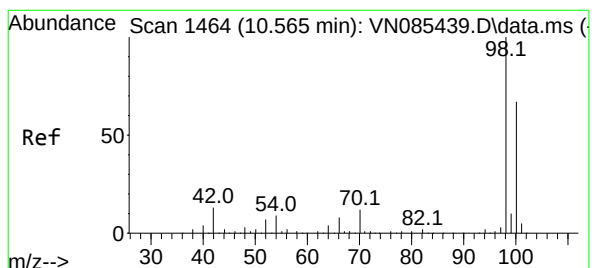
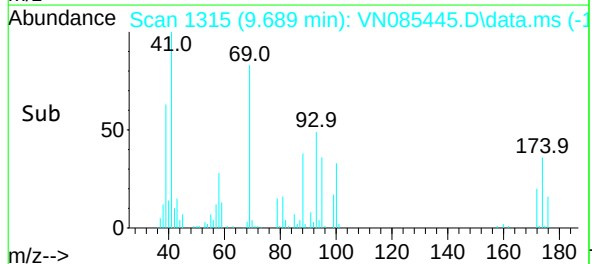
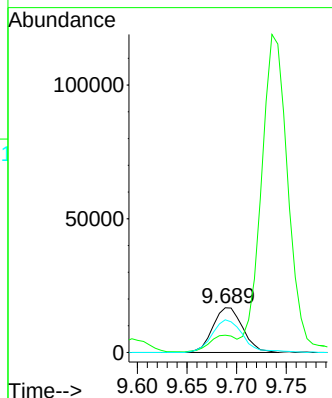
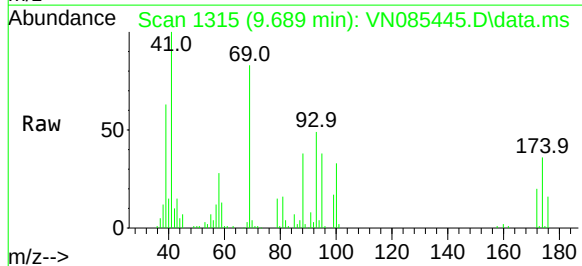
58 76.1 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#50

Toluene-d8

Concen: 52.302 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085445.D

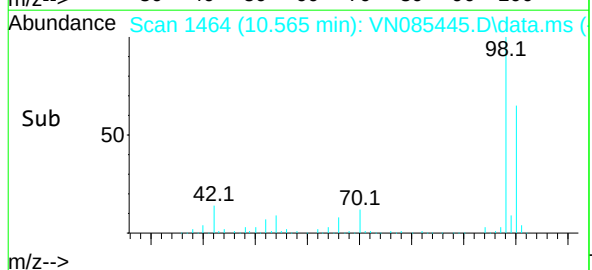
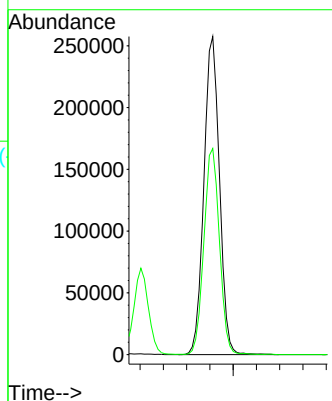
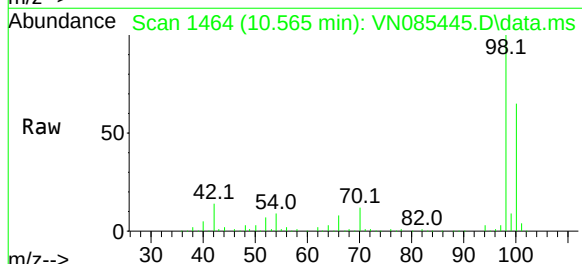
Acq: 14 Jan 2025 18:06

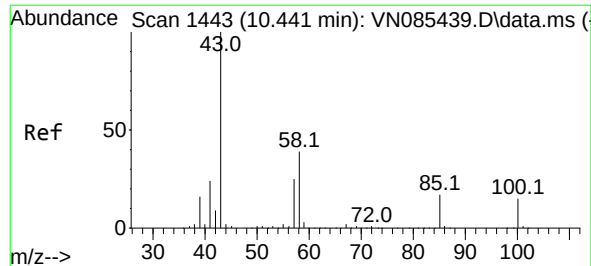
Tgt Ion: 98 Resp: 477630

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.4





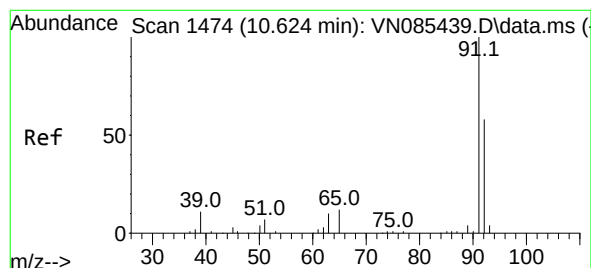
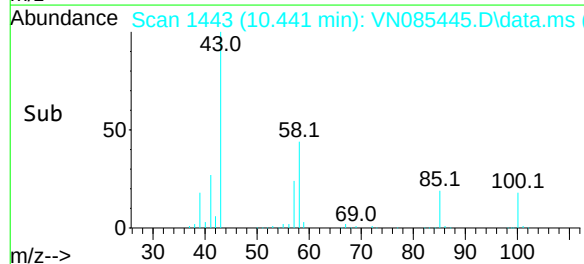
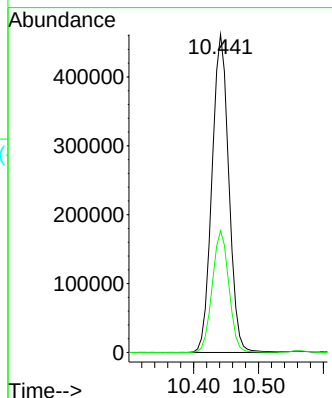
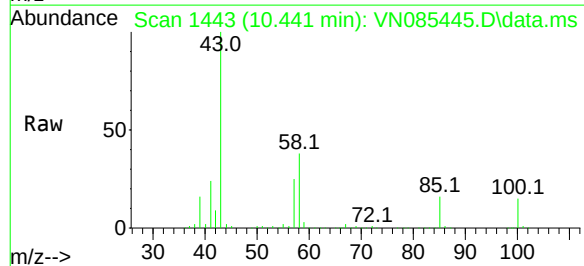
#51
4-Methyl-2-Pentanone
Concen: 245.877 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 43 Resp: 832426
Ion Ratio Lower Upper
43 100
58 37.8 30.5 45.7

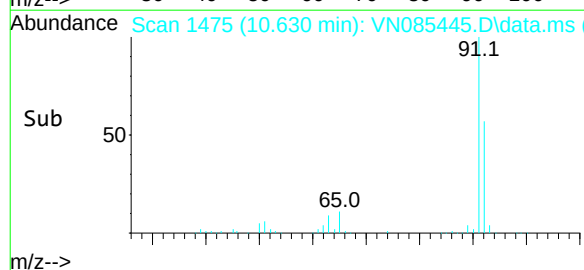
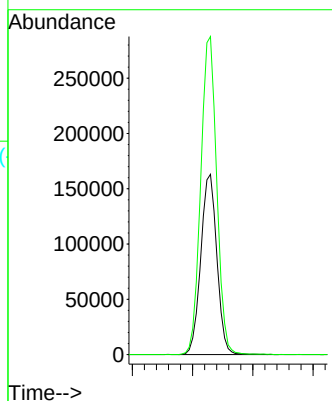
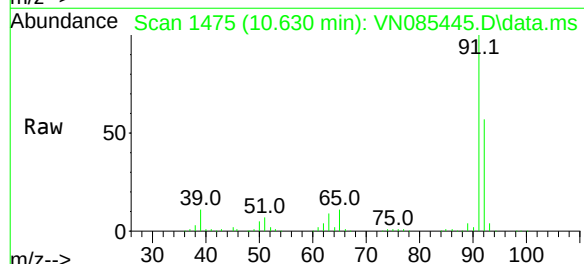
Manual Integrations
APPROVED

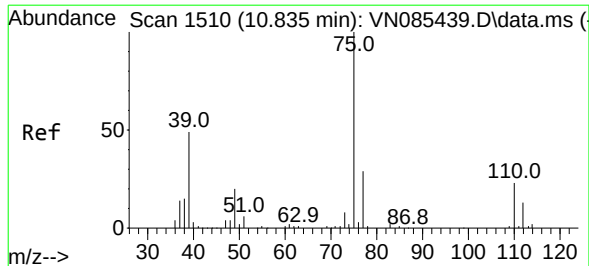
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#52
Toluene
Concen: 48.073 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 92 Resp: 301911
Ion Ratio Lower Upper
92 100
91 175.7 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 47.757 ug/l

RT: 10.830 min Scan# 1510

Delta R.T. -0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 75 Resp: 183680

Ion Ratio Lower Upper

75 100

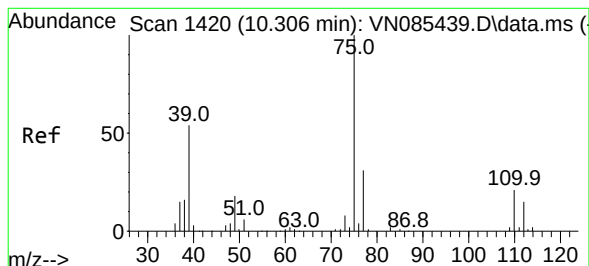
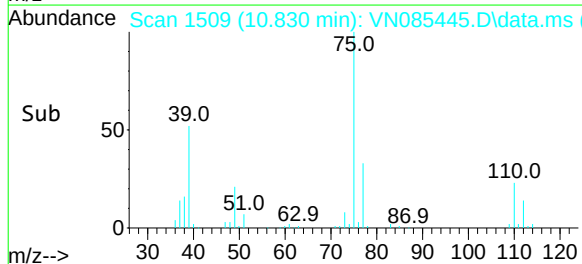
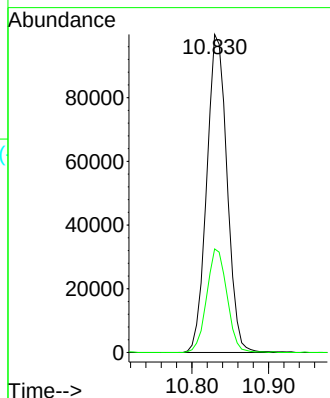
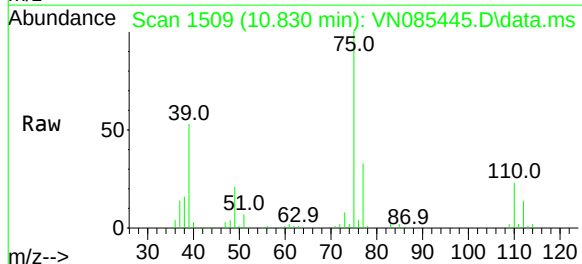
77 32.6 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#54

cis-1,3-Dichloropropene

Concen: 47.783 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

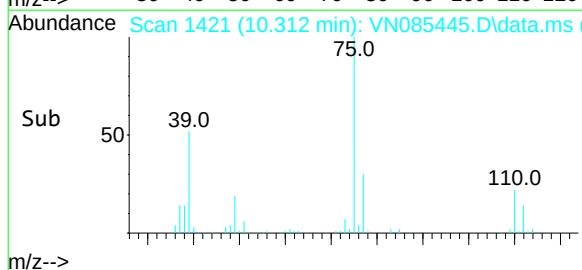
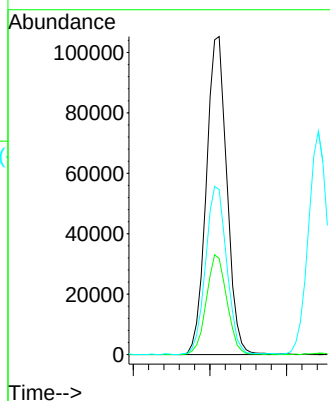
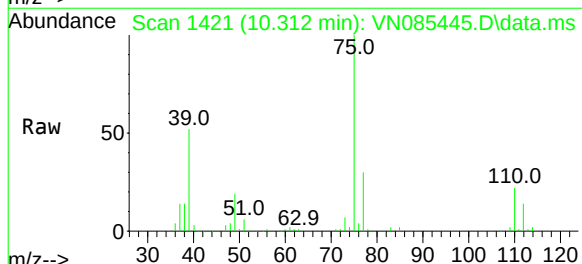
Tgt Ion: 75 Resp: 196307

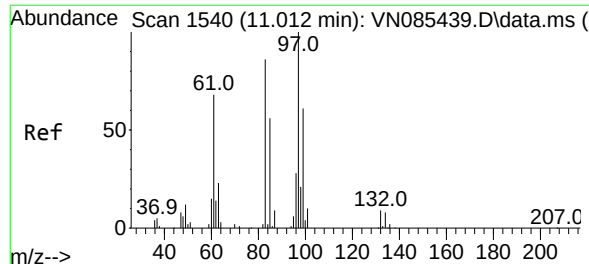
Ion Ratio Lower Upper

75 100

77 30.2 25.0 37.4

39 51.9 43.1 64.7





#55

1,1,2-Trichloroethane

Concen: 46.173 ug/l

RT: 11.012 min Scan# 15

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 97 Resp: 114757

Ion Ratio Lower Upper

97 100

83 83.7 69.0 103.6

85 53.2 44.6 66.8

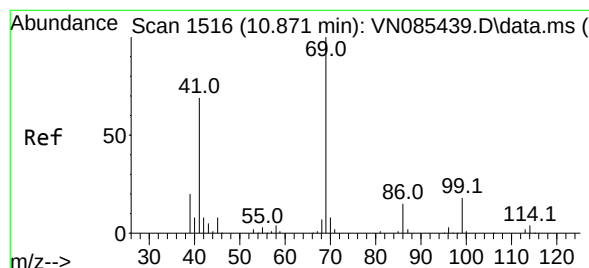
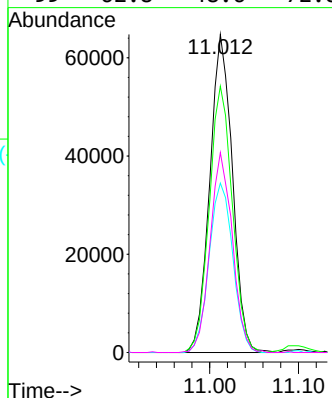
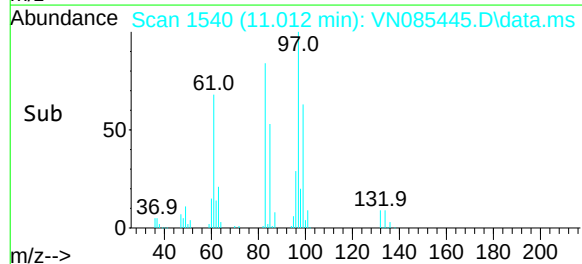
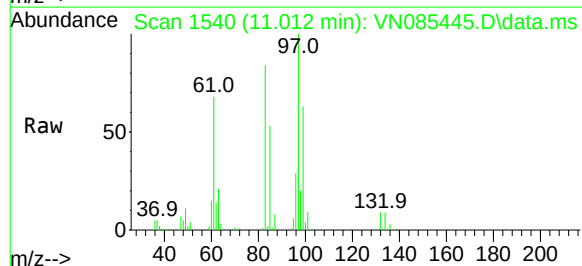
99 62.8 48.6 72.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#56

Ethyl methacrylate

Concen: 43.762 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

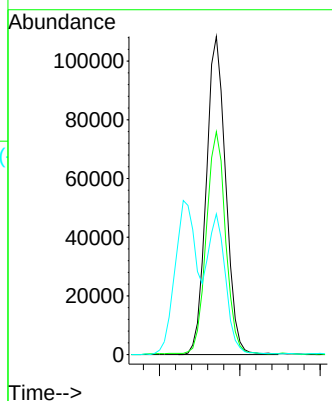
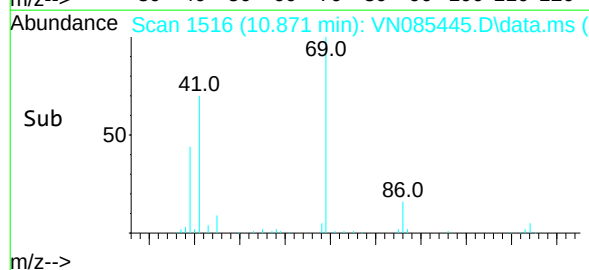
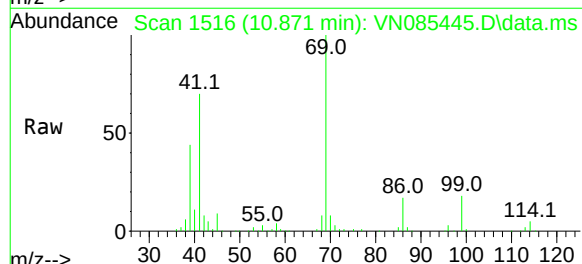
Tgt Ion: 69 Resp: 182170

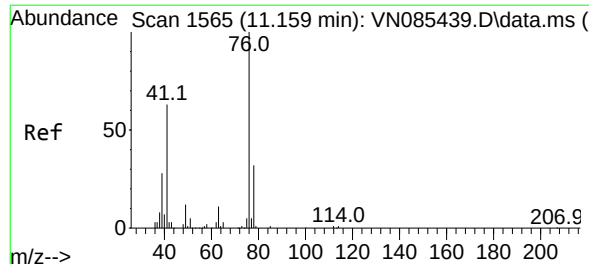
Ion Ratio Lower Upper

69 100

41 70.4 54.6 82.0

39 40.2 32.4 48.6





#57

1,3-Dichloropropane

Concen: 46.877 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 76 Resp: 202583

Ion Ratio Lower Upper

76 100

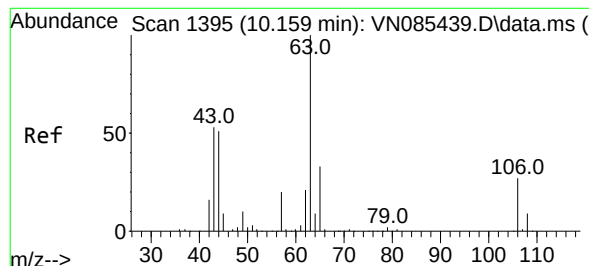
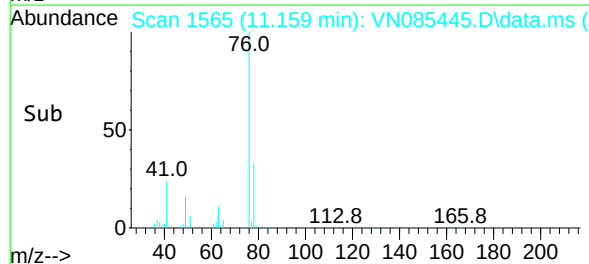
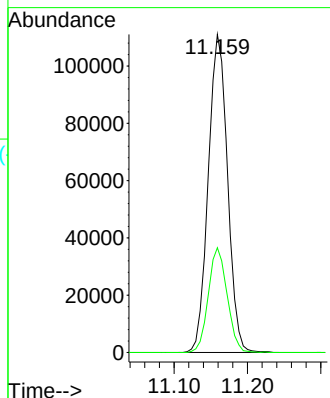
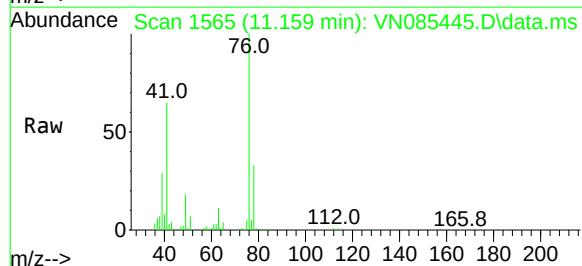
78 32.1 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#58

2-Chloroethyl Vinyl ether

Concen: 256.116 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN085445.D

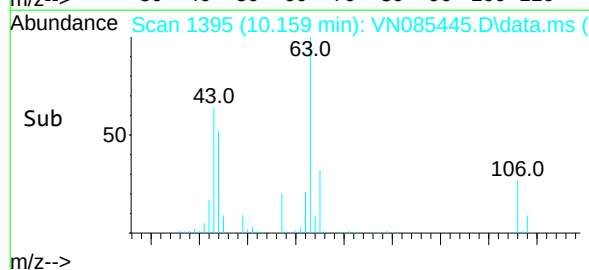
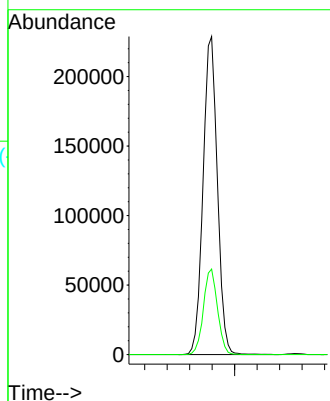
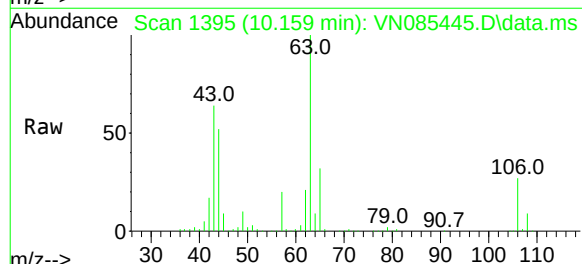
Acq: 14 Jan 2025 18:06

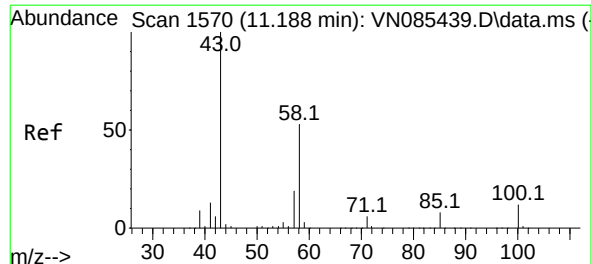
Tgt Ion: 63 Resp: 403949

Ion Ratio Lower Upper

63 100

106 26.4 21.6 32.4





#59

2-Hexanone

Concen: 251.213 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 43 Resp: 598433

Ion Ratio Lower Upper

43 100

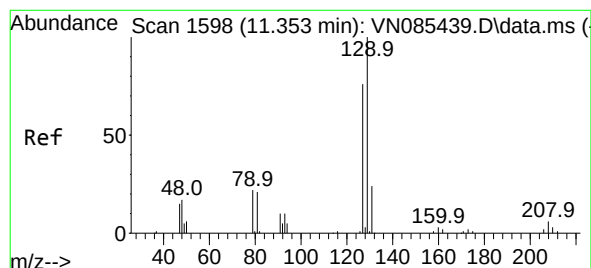
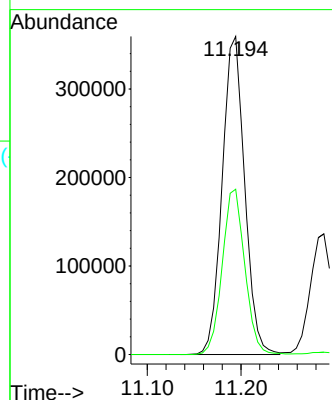
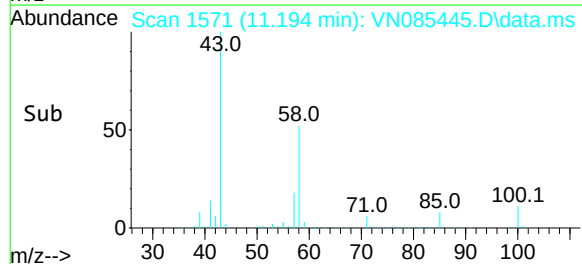
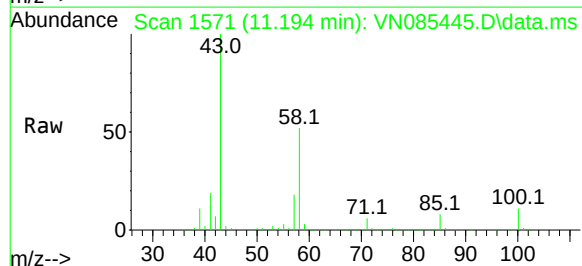
58 52.1 26.2 78.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#60

Dibromochloromethane

Concen: 45.935 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. 0.000 min

Lab File: VN085445.D

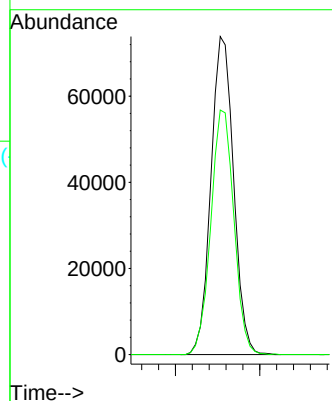
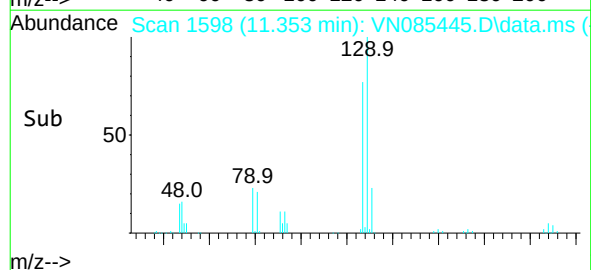
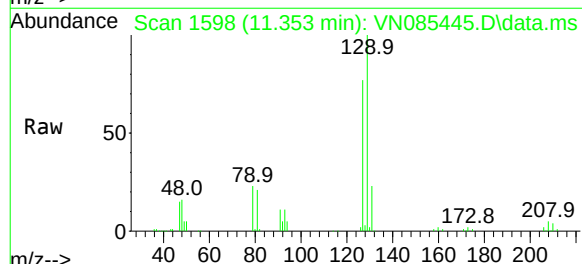
Acq: 14 Jan 2025 18:06

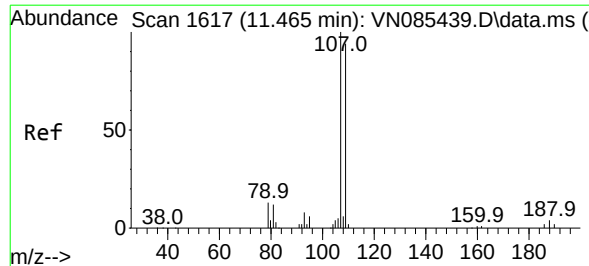
Tgt Ion:129 Resp: 137831

Ion Ratio Lower Upper

129 100

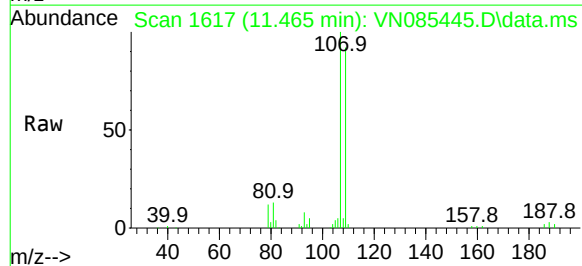
127 78.1 38.6 115.8





#61
1,2-Dibromoethane
Concen: 44.837 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

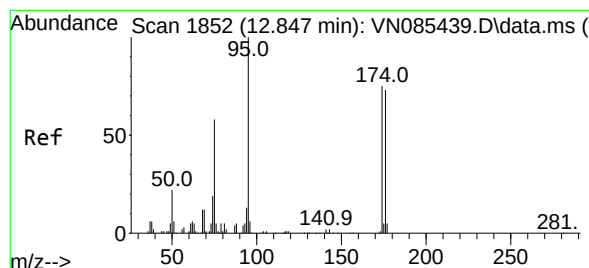
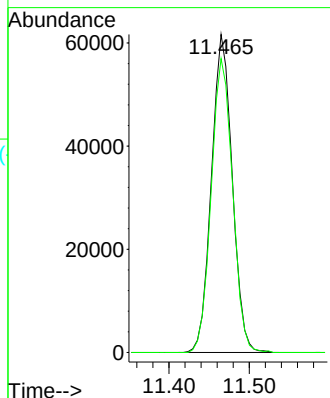
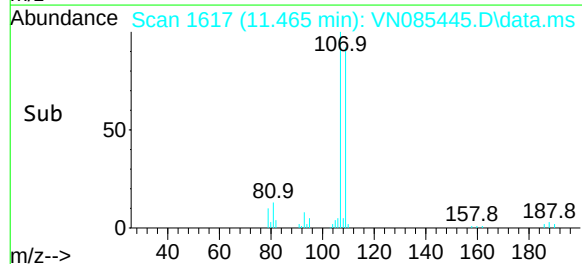
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425



Tgt Ion: 107 Resp: 110926
Ion Ratio Lower Upper
107 100
109 94.7 75.9 113.9

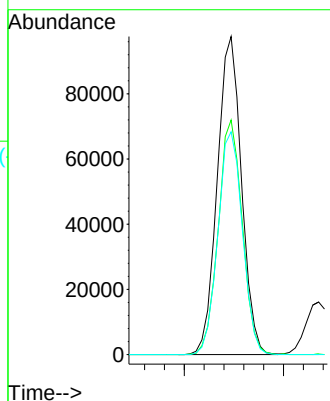
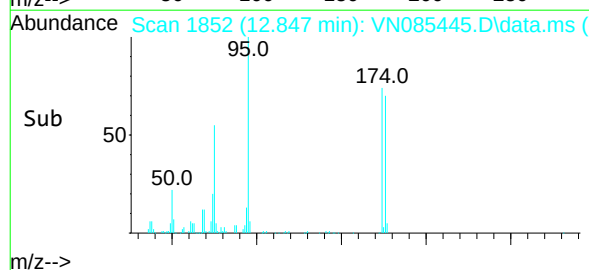
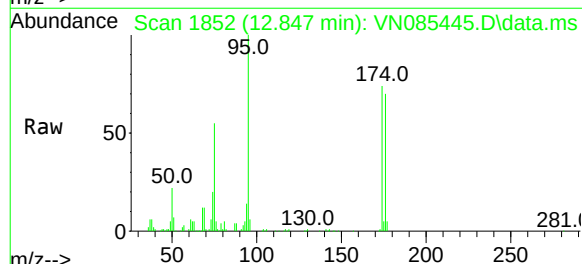
Manual Integrations
APPROVED

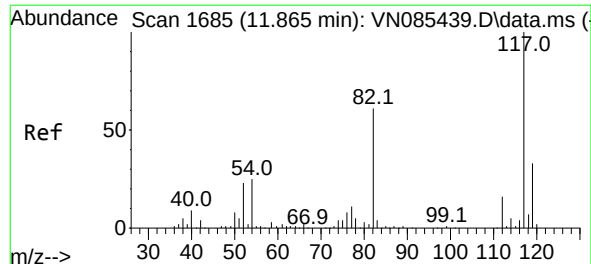
Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



#62
4-Bromofluorobenzene
Concen: 52.899 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 95 Resp: 165249
Ion Ratio Lower Upper
95 100
174 73.1 0.0 145.0
176 70.8 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion:117 Resp: 320948

Ion Ratio Lower Upper

117 100

82 60.1 48.6 72.8

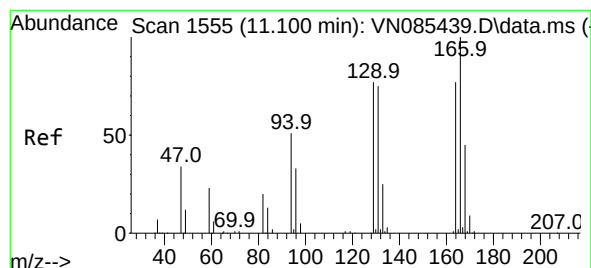
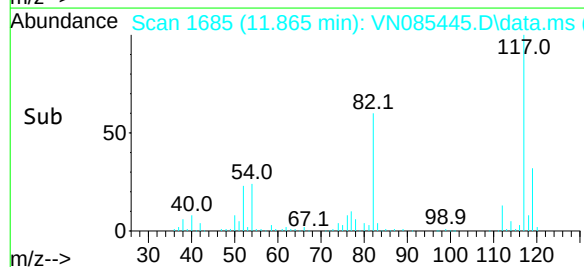
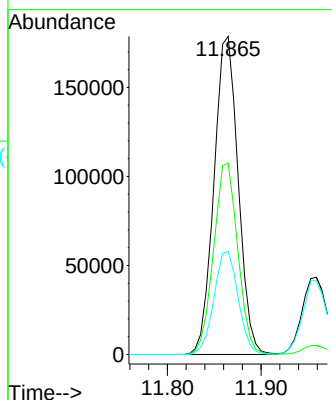
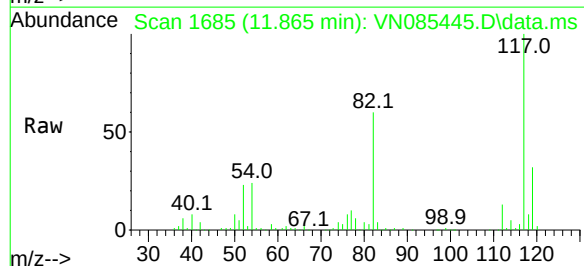
119 32.4 26.6 39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#64

Tetrachloroethene

Concen: 44.886 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion:164 Resp: 98211

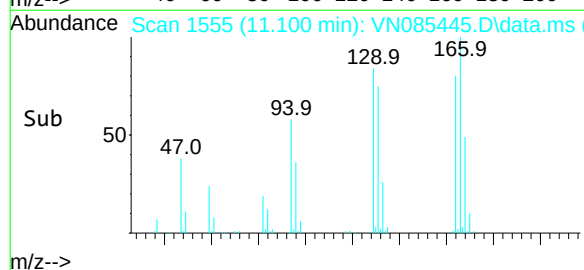
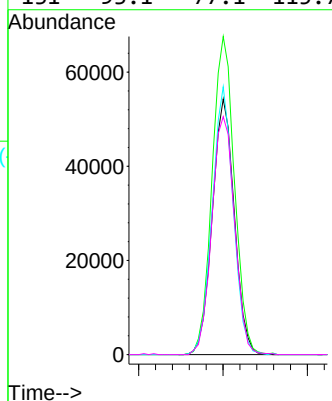
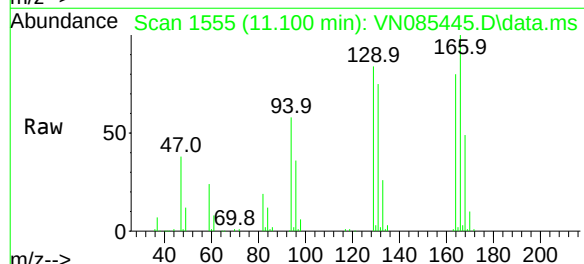
Ion Ratio Lower Upper

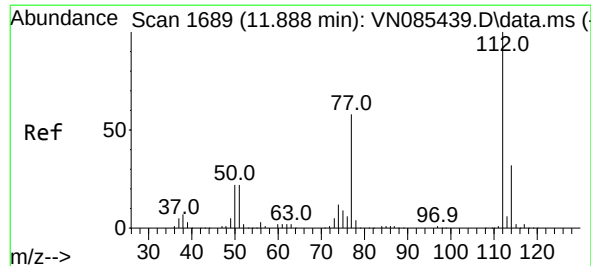
164 100

166 124.4 103.4 155.2

129 104.8 79.2 118.8

131 93.1 77.1 115.7





#65

Chlorobenzene

Concen: 45.901 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion:112 Resp: 322723

Ion Ratio Lower Upper

112 100

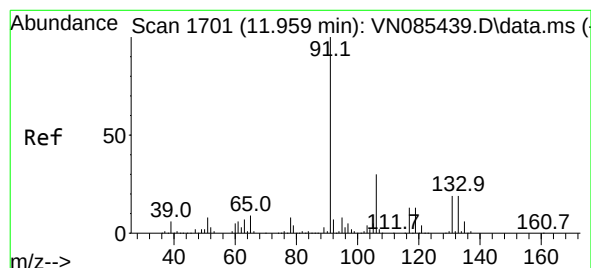
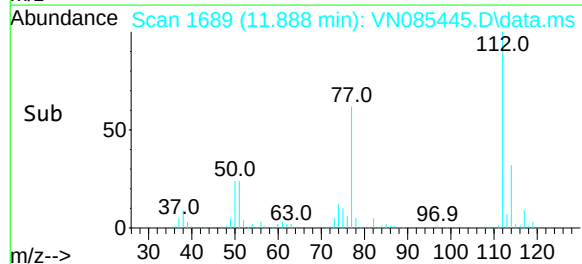
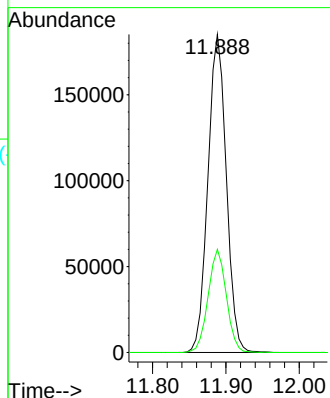
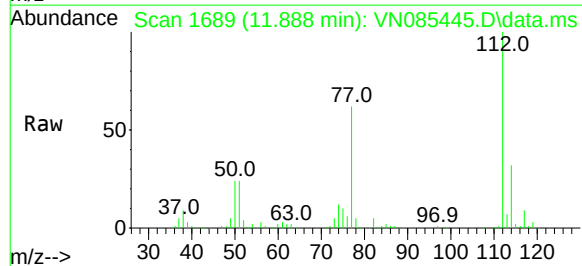
114 32.4 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 44.712 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

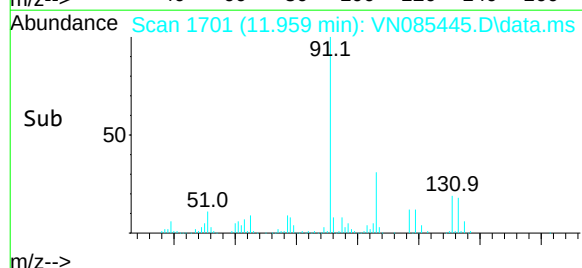
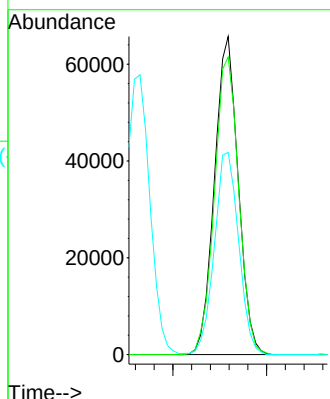
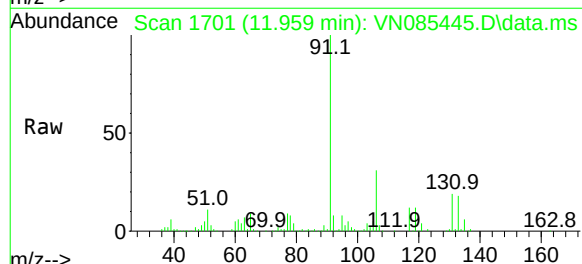
Tgt Ion:131 Resp: 115379

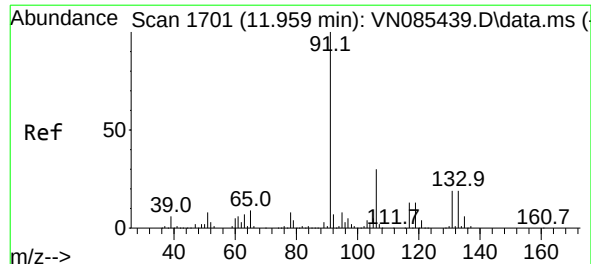
Ion Ratio Lower Upper

131 100

133 95.8 47.4 142.3

119 65.2 33.1 99.5





#67

Ethyl Benzene

Concen: 50.391 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 91 Resp: 577059

Ion Ratio Lower Upper

91 100

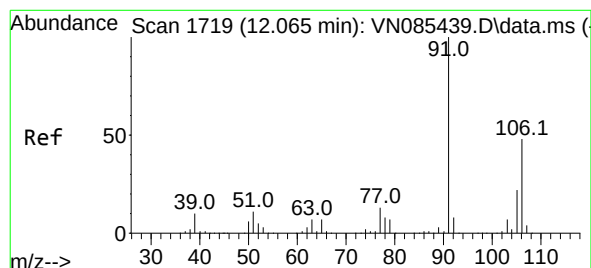
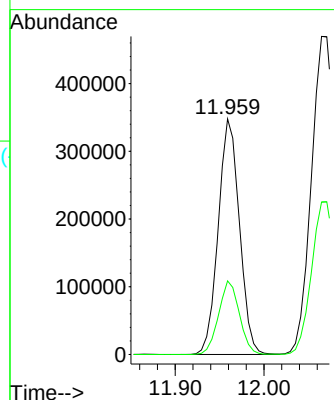
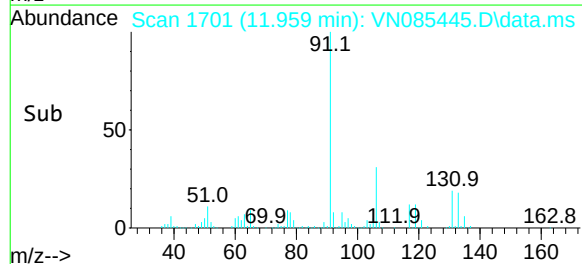
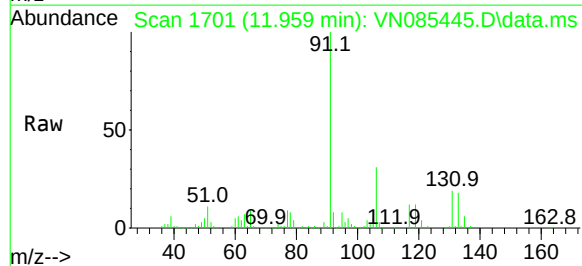
106 31.2 23.8 35.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#68

m/p-Xylenes

Concen: 103.341 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN085445.D

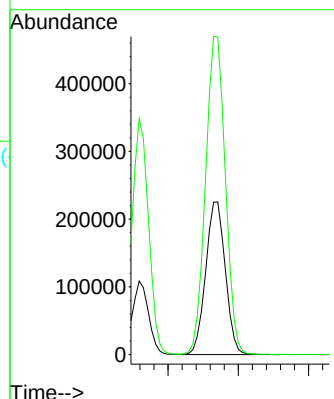
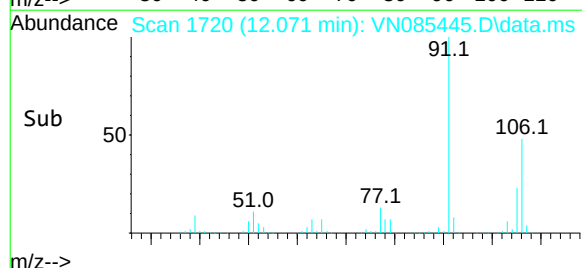
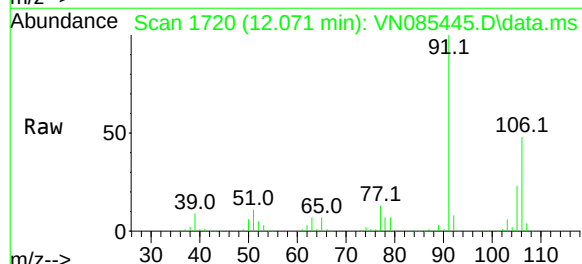
Acq: 14 Jan 2025 18:06

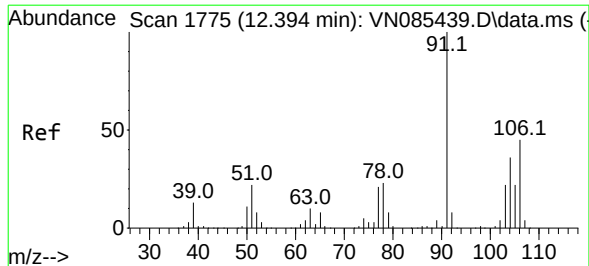
Tgt Ion:106 Resp: 437367

Ion Ratio Lower Upper

106 100

91 210.1 167.7 251.5





#69

o-Xylene

Concen: 52.093 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion:106 Resp: 210698

Ion Ratio Lower Upper

106 100

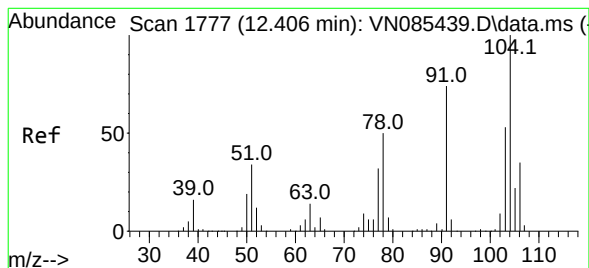
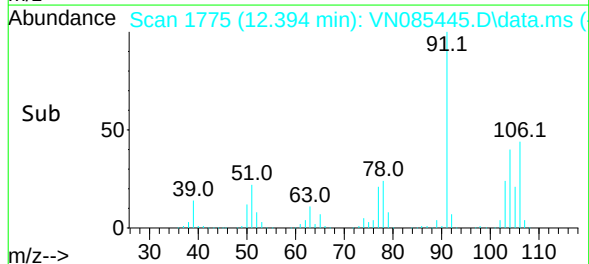
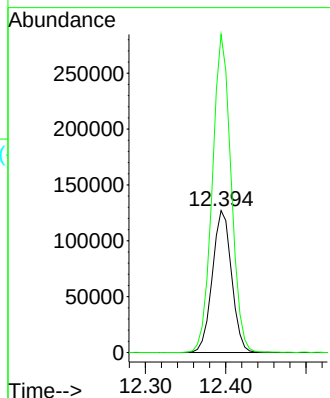
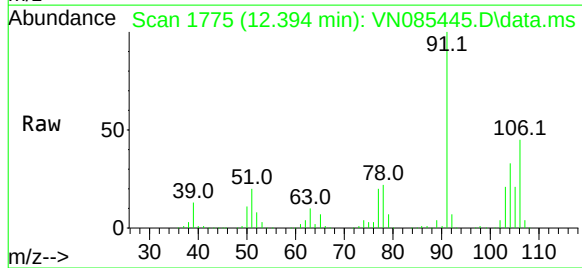
91 219.9 110.4 331.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#70

Styrene

Concen: 53.103 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

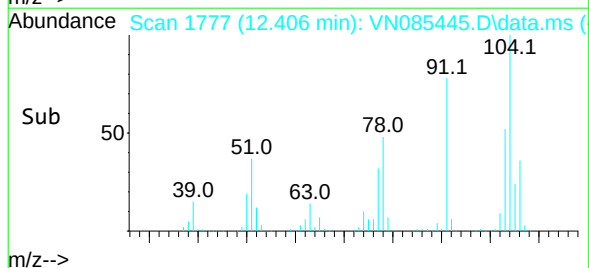
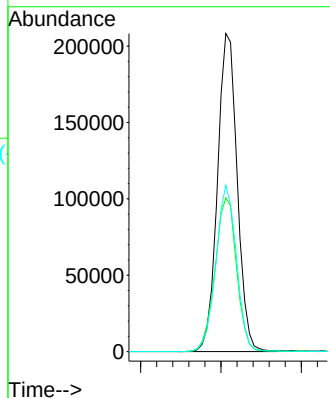
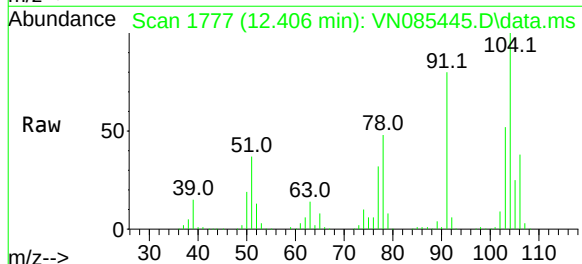
Tgt Ion:104 Resp: 355459

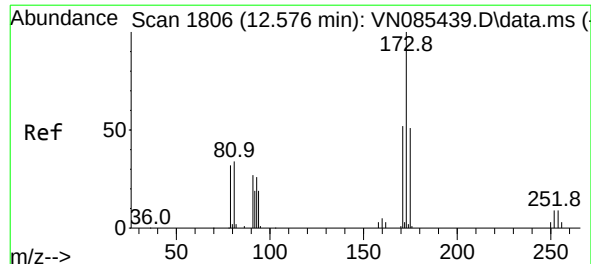
Ion Ratio Lower Upper

104 100

78 52.8 42.5 63.7

103 54.5 43.8 65.8





#71

Bromoform

Concen: 49.119 ug/l

RT: 12.577 min Scan# 1806

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

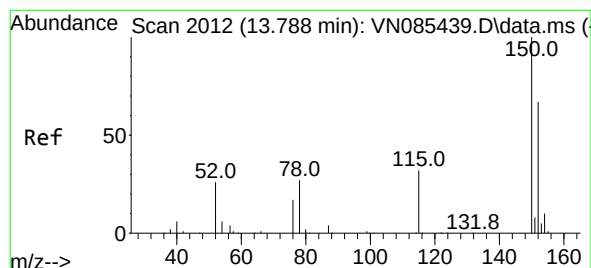
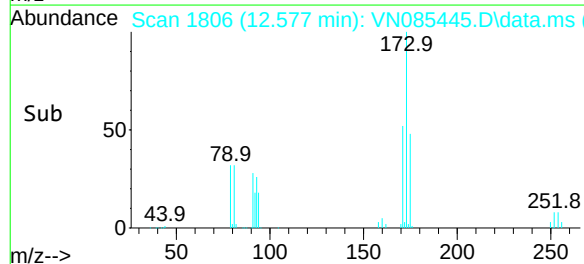
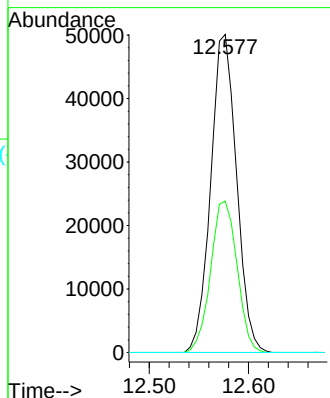
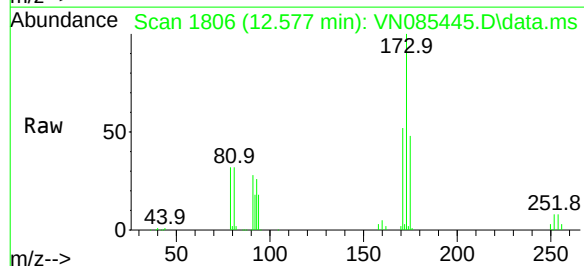
ICVVN011425

Tgt Ion:	173	Resp:	90693
Ion Ratio	Lower	Upper	
173	100		
175	48.7	24.4	73.2
254	0.0	0.0	0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

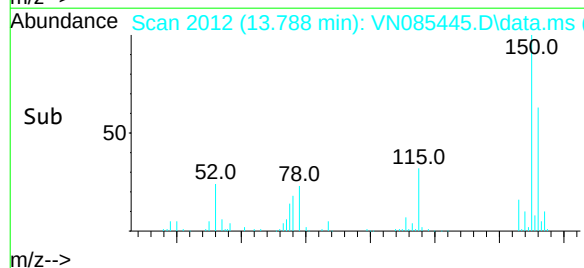
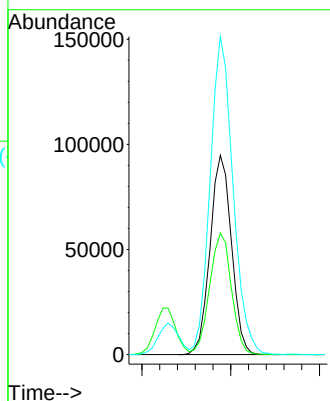
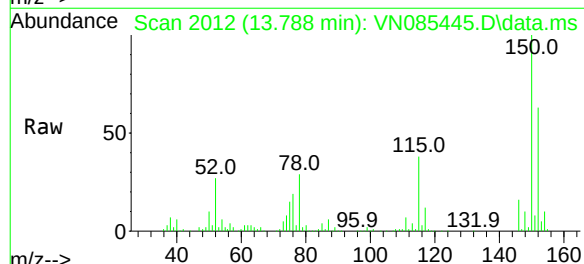
RT: 13.788 min Scan# 2012

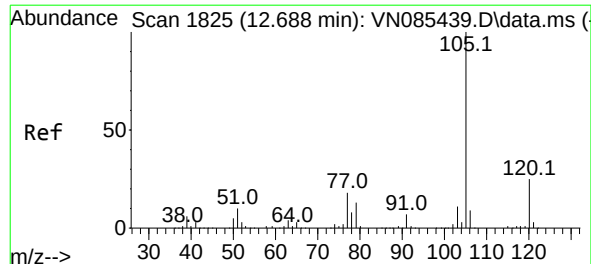
Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion:	152	Resp:	158525
Ion Ratio	Lower	Upper	
152	100		
115	62.2	31.1	93.3
150	171.0	0.0	343.6





#73

Isopropylbenzene

Concen: 49.951 ug/l

RT: 12.694 min Scan# 1825

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 105 Resp: 534428

Ion Ratio Lower Upper

105 100

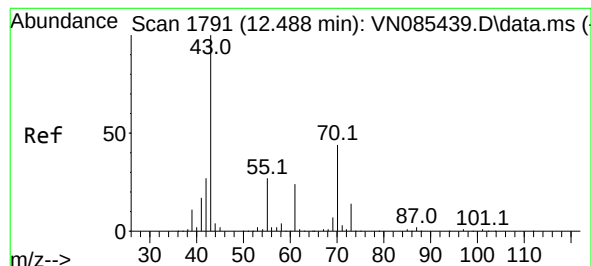
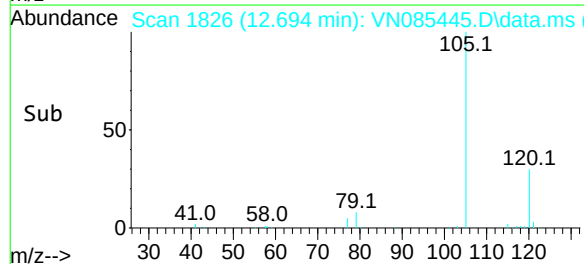
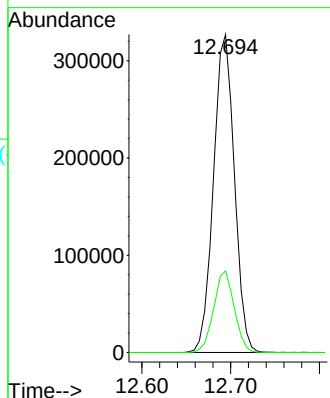
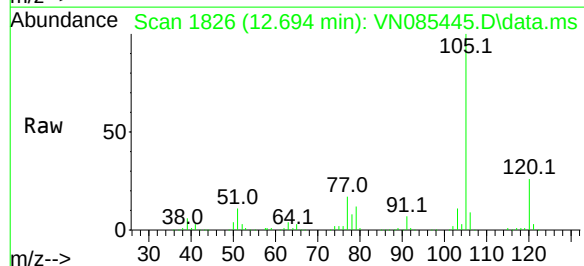
120 25.2 12.8 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#74

N-ethyl acetate

Concen: 48.730 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 234342

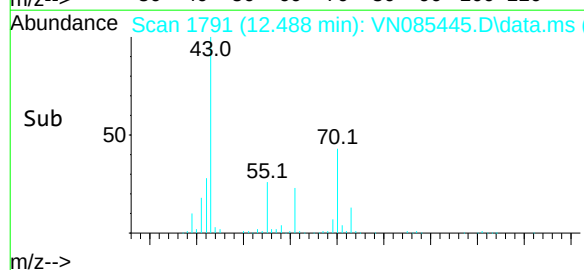
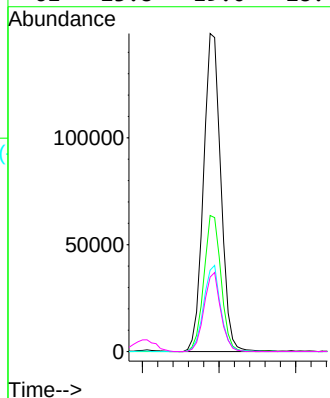
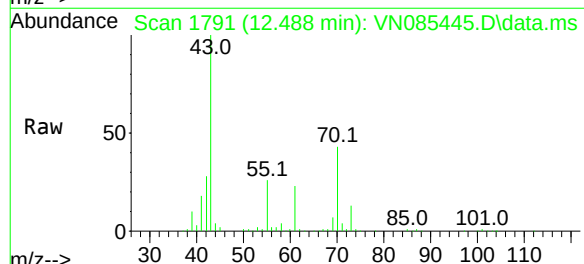
Ion Ratio Lower Upper

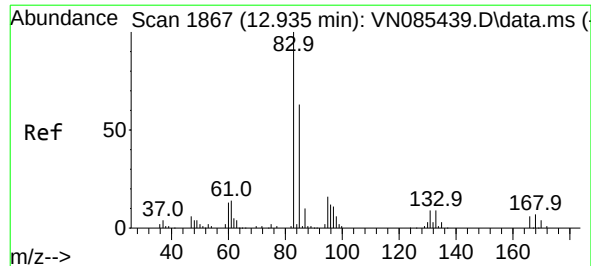
43 100

70 42.2 34.0 51.0

55 26.5 21.4 32.2

61 23.8 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 43.627 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

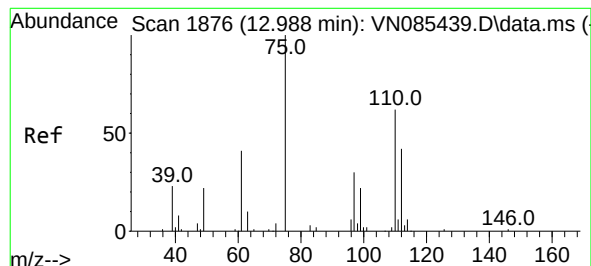
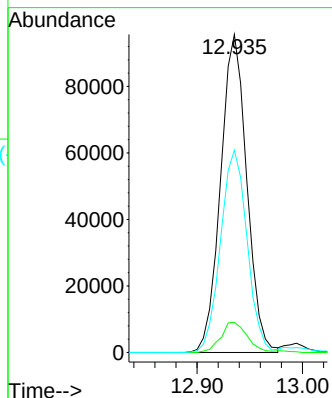
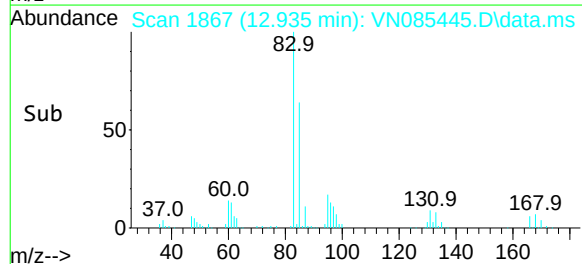
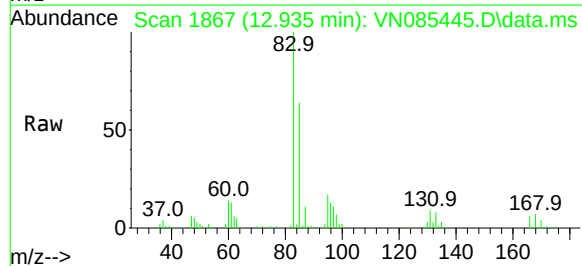
ClientSampleId :

ICVVN011425

Tgt Ion:	83	Resp:	164882
Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.8	14.4
85	64.6	32.2	96.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#76

1,2,3-Trichloropropane

Concen: 41.891 ug/l m

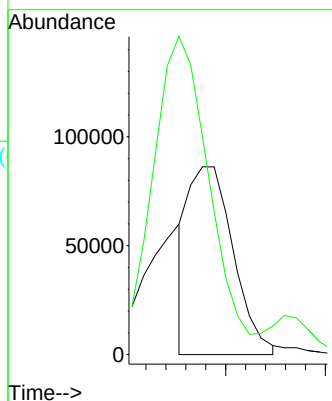
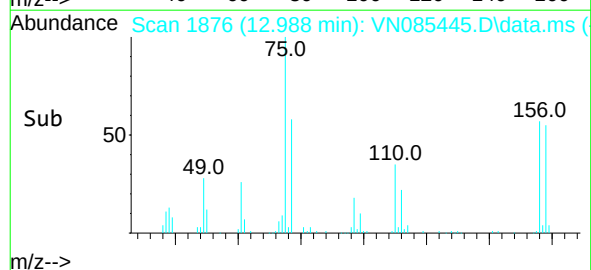
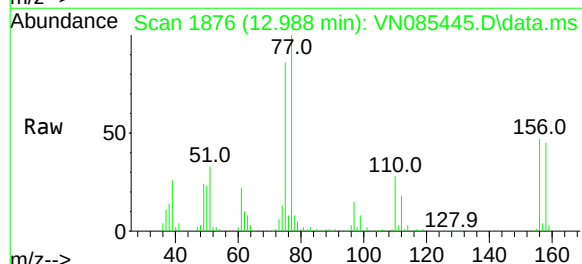
RT: 12.988 min Scan# 1876

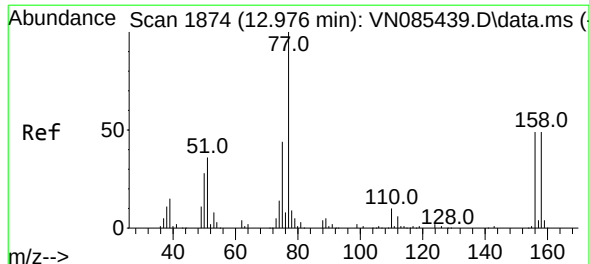
Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion:	75	Resp:	134976
Ion	Ratio	Lower	Upper
75	100		
77	213.9	109.7	329.2





#77

Bromobenzene

Concen: 46.138 ug/l

RT: 12.977 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085445.D

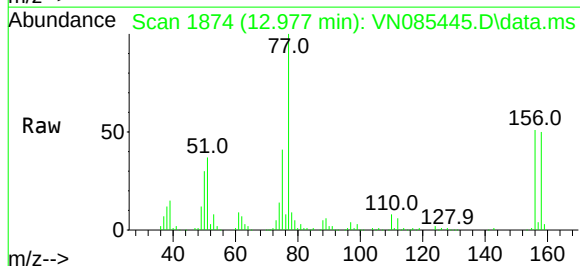
Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

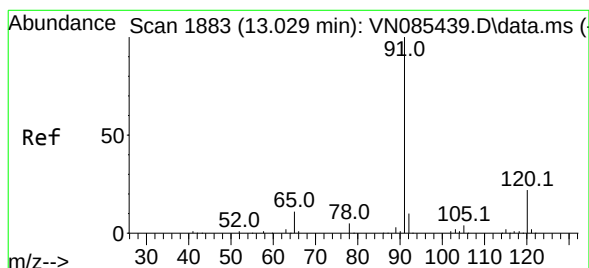
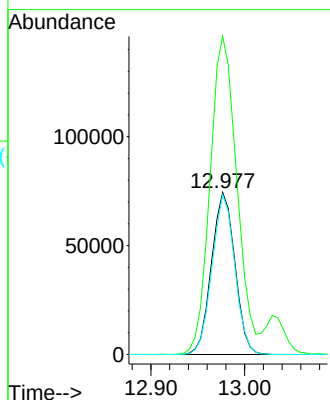
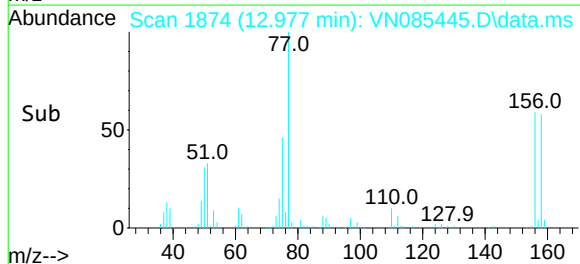
ICVVN011425



Tgt Ion	156	Resp	128968
Ion Ratio	100	Lower	Upper
156	100		
77	223.8	114.1	342.4
158	95.7	48.9	146.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#78

n-propylbenzene

Concen: 51.001 ug/l

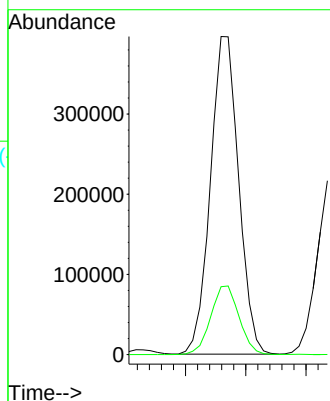
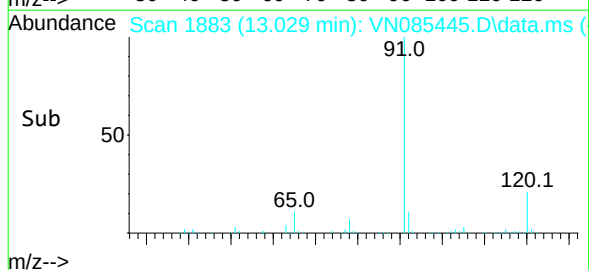
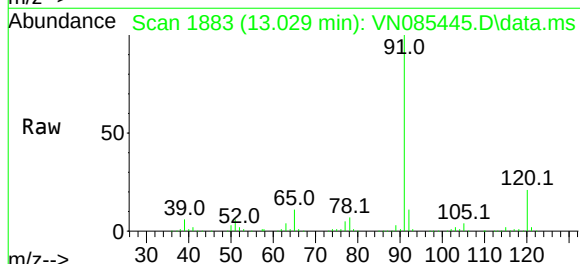
RT: 13.029 min Scan# 1883

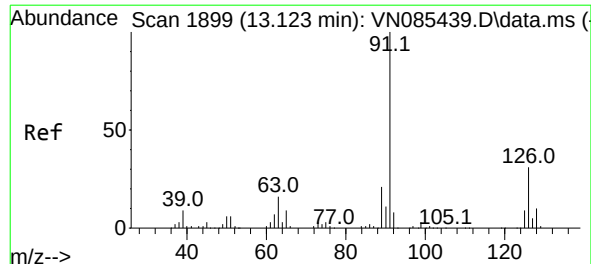
Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion	91	Resp	645977
Ion Ratio	100	Lower	Upper
91	100		
120	21.7	10.9	32.6





#79

2-Chlorotoluene

Concen: 47.870 ug/l

RT: 13.124 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 91 Resp: 392404

Ion Ratio Lower Upper

91 100

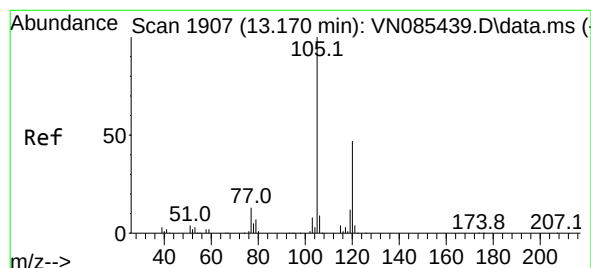
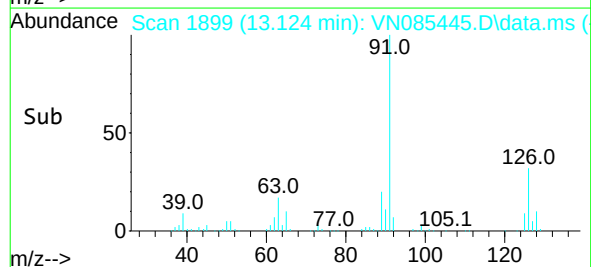
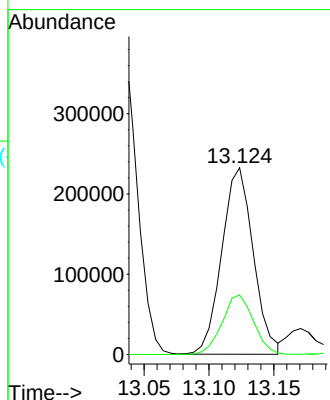
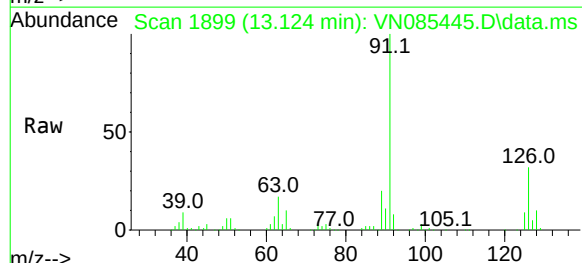
126 31.8 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#80

1,3,5-Trimethylbenzene

Concen: 51.604 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085445.D

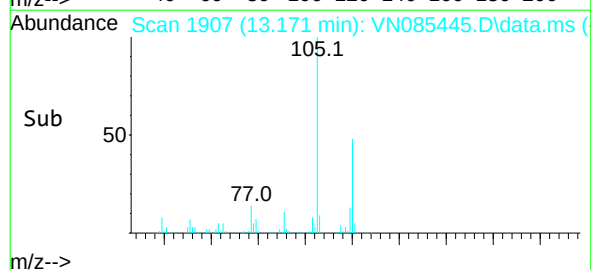
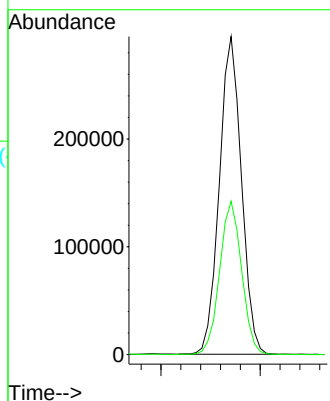
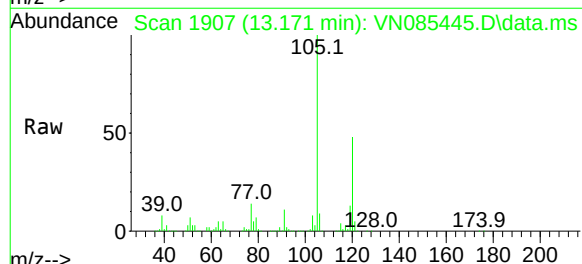
Acq: 14 Jan 2025 18:06

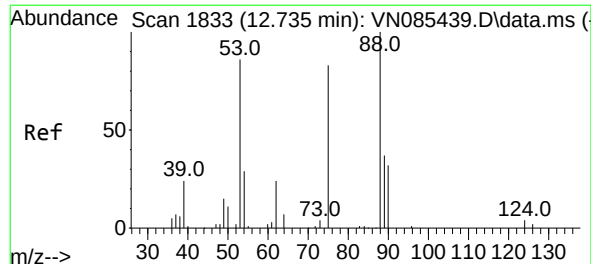
Tgt Ion:105 Resp: 456048

Ion Ratio Lower Upper

105 100

120 48.1 23.9 71.7





#81

trans-1,4-Dichloro-2-butene

Concen: 49.226 ug/l m

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN085445.D

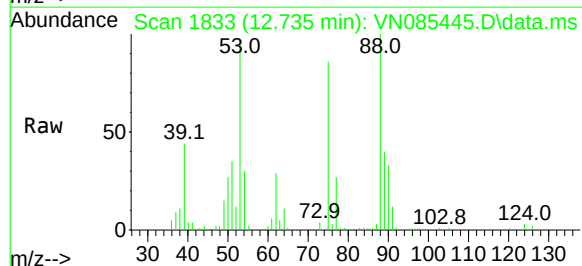
Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

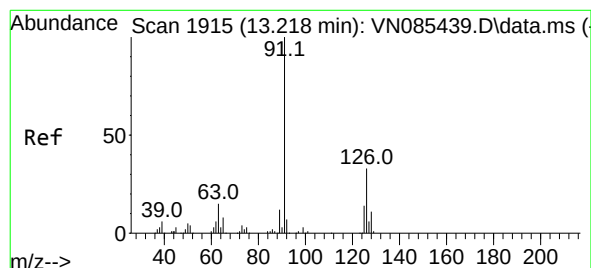
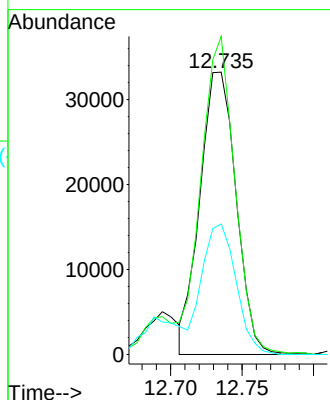
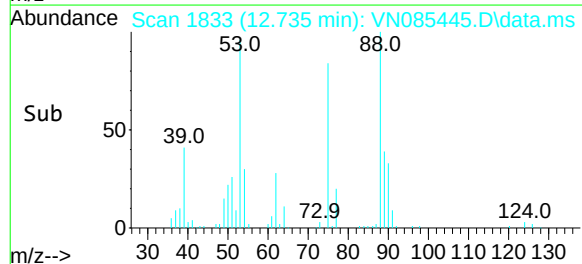
ICVVN011425



Tgt Ion:	75	Resp:	58623
Ion	Ratio	Lower	Upper
75	100		
53	118.0	95.6	143.4
89	43.3	37.0	55.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#82

4-Chlorotoluene

Concen: 48.776 ug/l

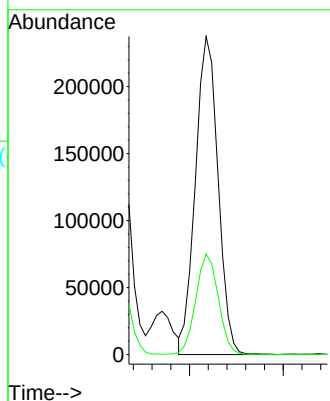
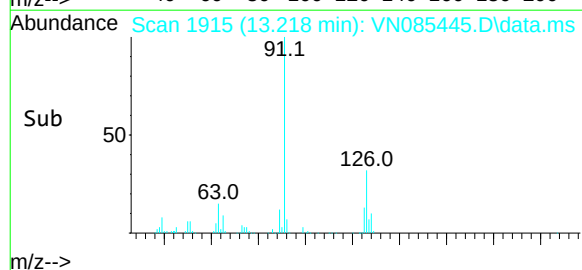
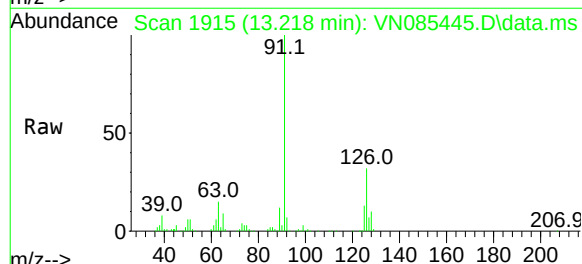
RT: 13.218 min Scan# 1915

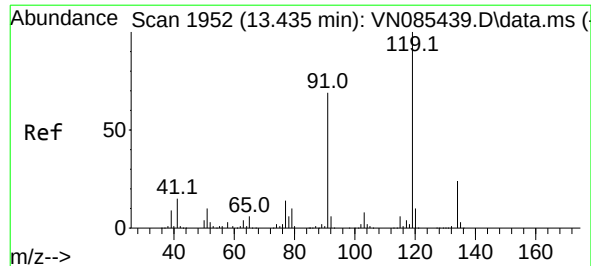
Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion:	91	Resp:	398110
Ion	Ratio	Lower	Upper
91	100		
126	31.6	15.9	47.7





#83

tert-Butylbenzene

Concen: 50.997 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion:119 Resp: 378478

Ion Ratio Lower Upper

119 100

91 70.6 35.1 105.3

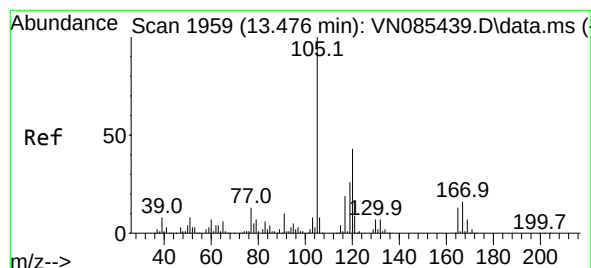
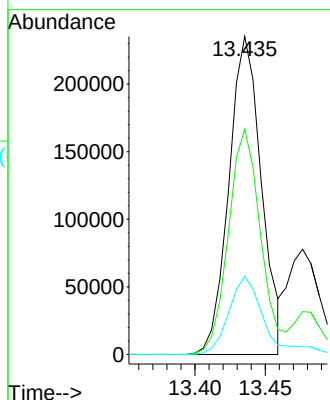
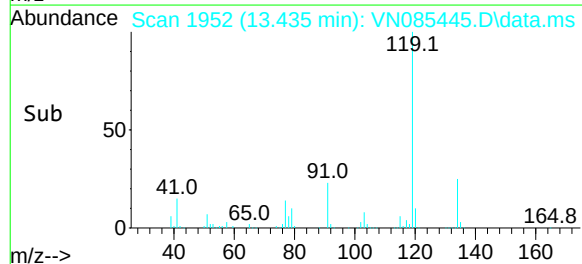
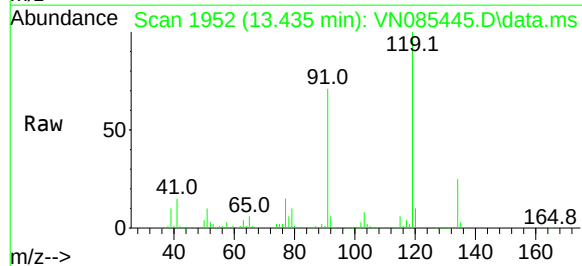
134 26.7 12.0 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#84

1,2,4-Trimethylbenzene

Concen: 51.922 ug/l

RT: 13.477 min Scan# 1959

Delta R.T. 0.000 min

Lab File: VN085445.D

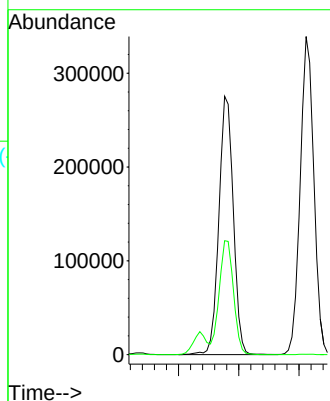
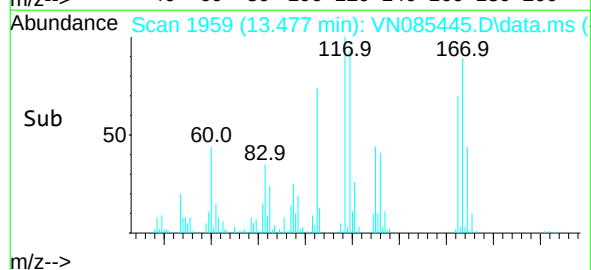
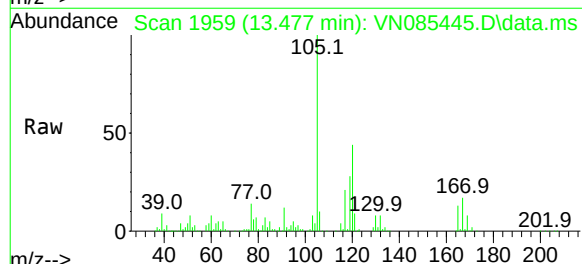
Acq: 14 Jan 2025 18:06

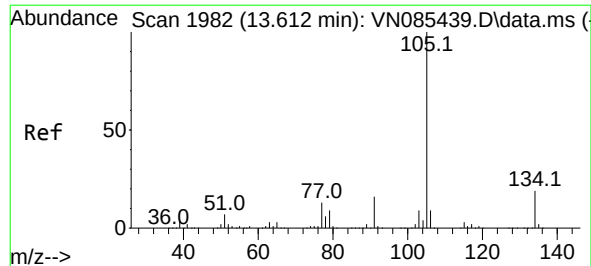
Tgt Ion:105 Resp: 457340

Ion Ratio Lower Upper

105 100

120 43.6 21.6 65.0





#85

sec-Butylbenzene

Concen: 51.777 ug/l

RT: 13.612 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion:105 Resp: 532578

Ion Ratio Lower Upper

105 100

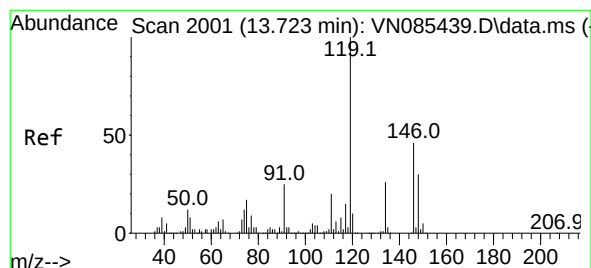
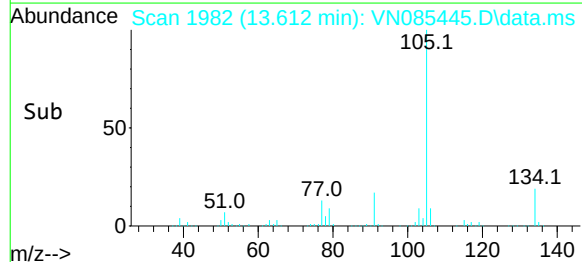
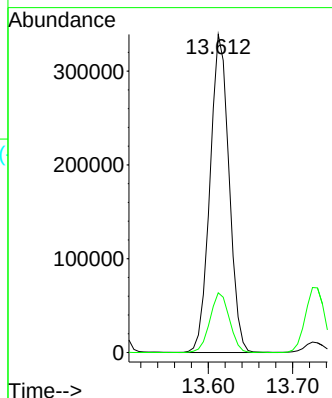
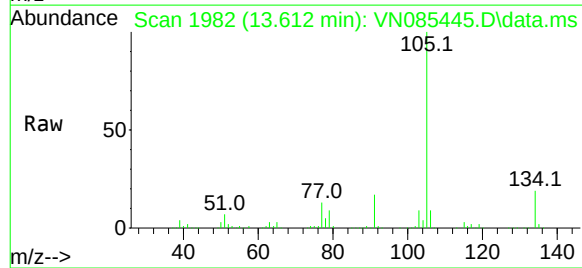
134 19.2 9.7 28.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#86

p-Isopropyltoluene

Concen: 47.795 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

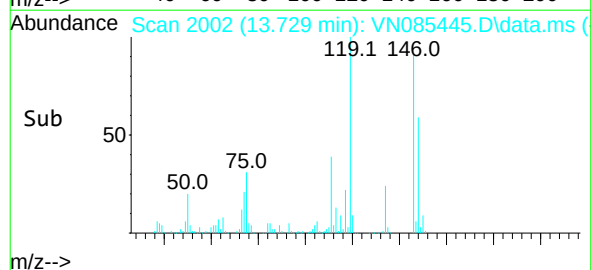
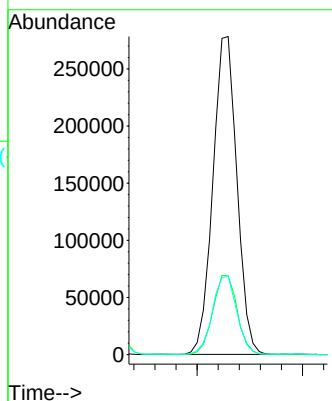
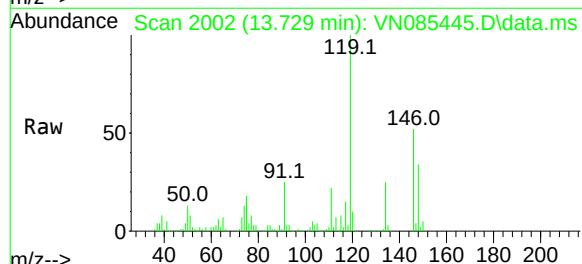
Tgt Ion:119 Resp: 440284

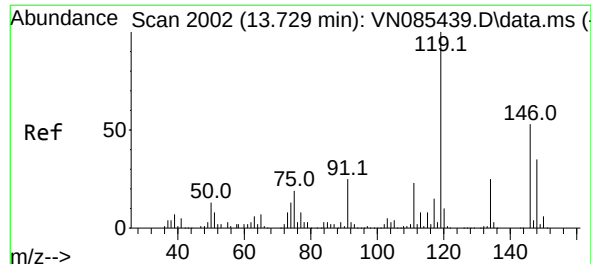
Ion Ratio Lower Upper

119 100

134 25.3 12.7 38.0

91 25.0 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 45.920 ug/l

RT: 13.729 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion:146 Resp: 236387

Ion Ratio Lower Upper

146 100

111 42.6 21.4 64.3

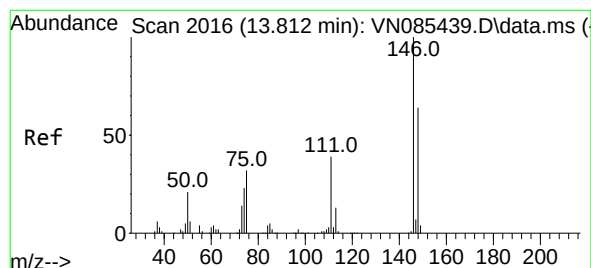
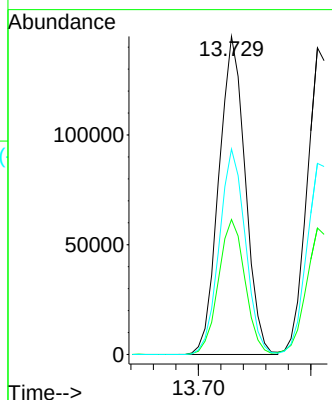
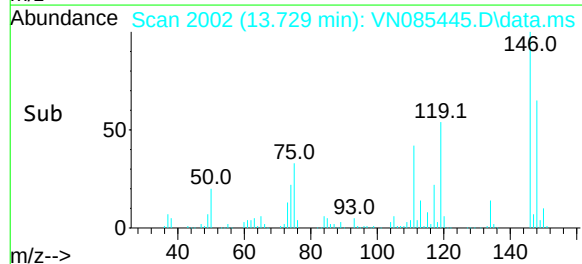
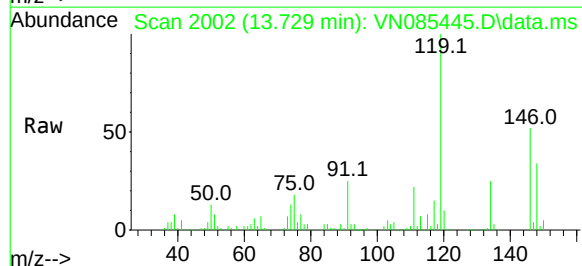
148 63.8 32.3 96.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#88

1,4-Dichlorobenzene

Concen: 44.102 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. -0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

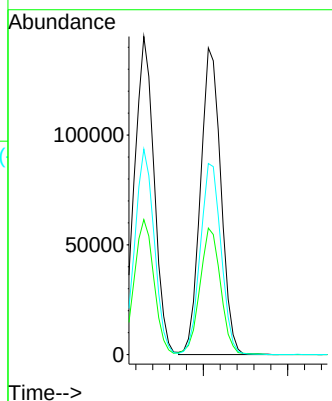
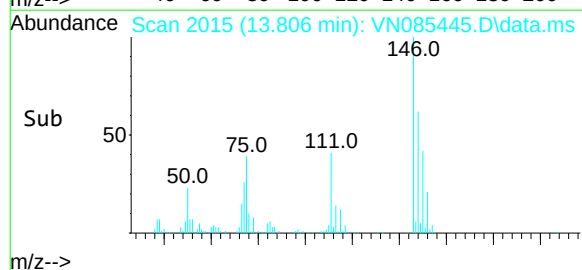
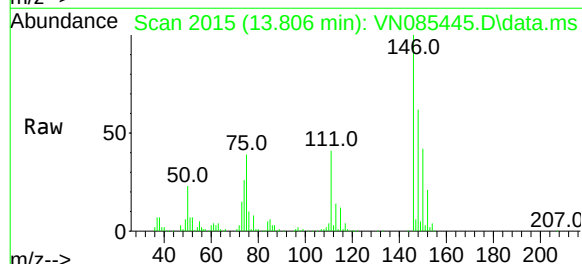
Tgt Ion:146 Resp: 235319

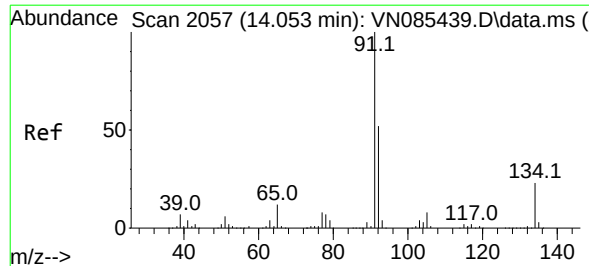
Ion Ratio Lower Upper

146 100

111 41.9 21.3 63.7

148 63.5 32.4 97.0





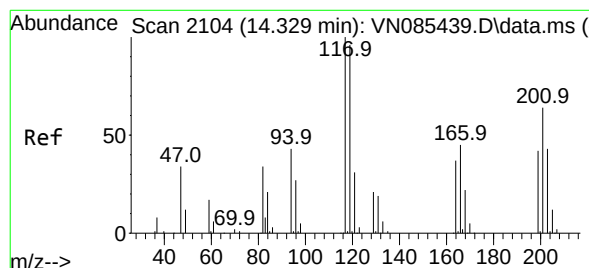
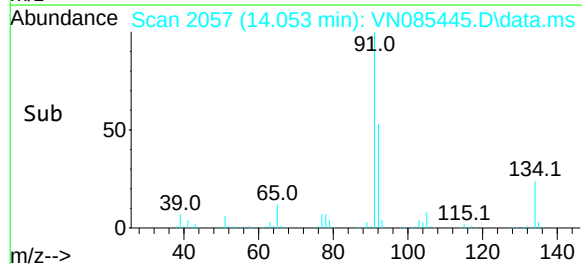
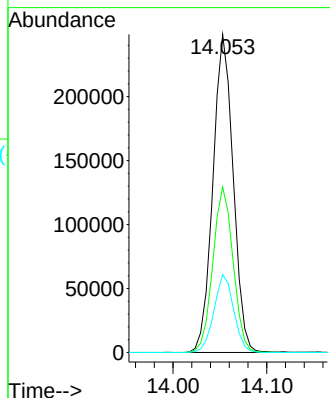
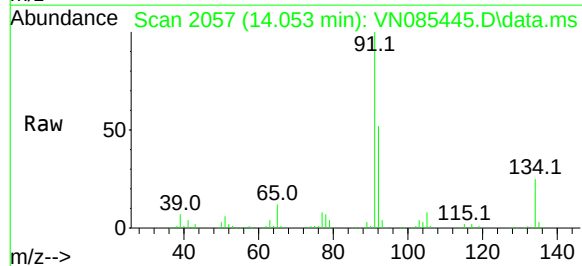
#89
n-Butylbenzene
Concen: 50.578 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion:	91	Resp:	373227
Ion	Ratio	Lower	Upper
91	100		
92	51.9	25.8	77.3
134	23.8	11.7	35.1

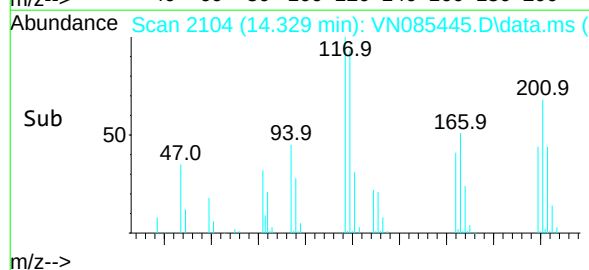
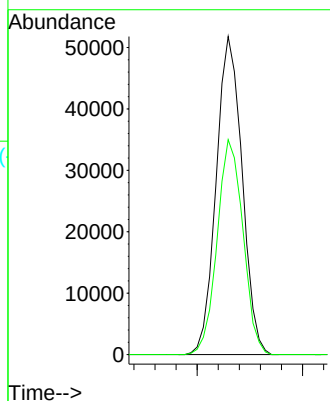
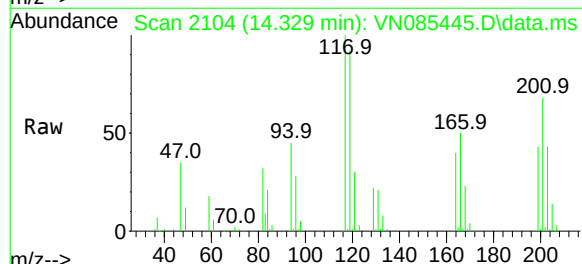
Manual Integrations
APPROVED

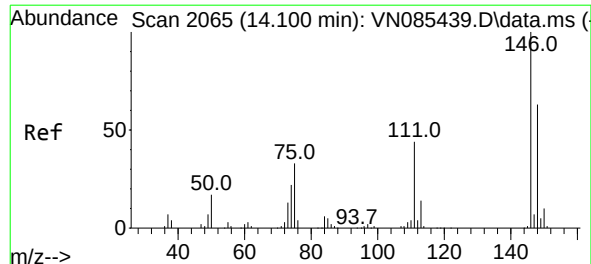
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#90
Hexachloroethane
Concen: 45.215 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:	117	Resp:	88538
Ion	Ratio	Lower	Upper
117	100		
201	67.2	33.7	101.0





#91

1,2-Dichlorobenzene

Concen: 45.113 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion:146 Resp: 231646

Ion Ratio Lower Upper

146 100

111 43.9 21.7 65.1

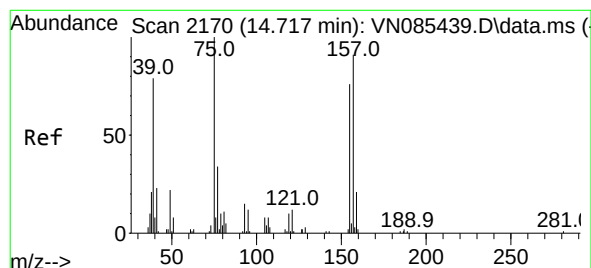
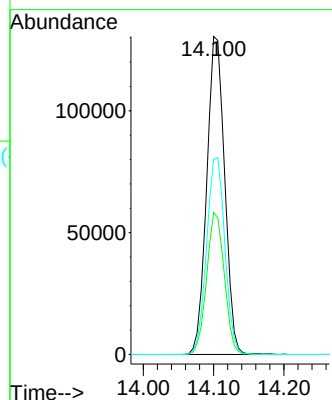
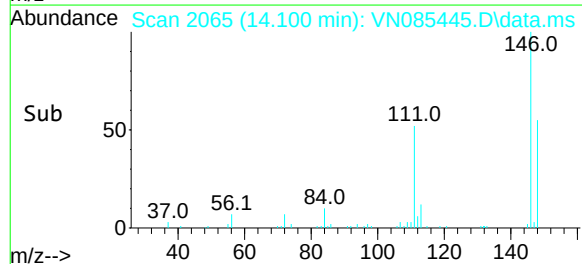
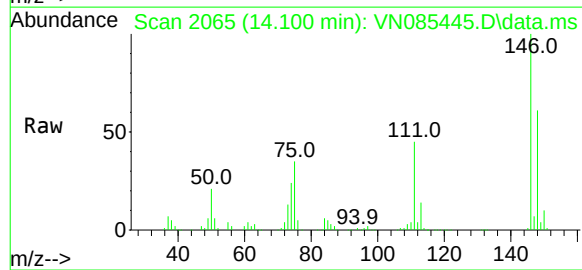
148 63.1 31.4 94.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 46.221 ug/l

RT: 14.718 min Scan# 2170

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

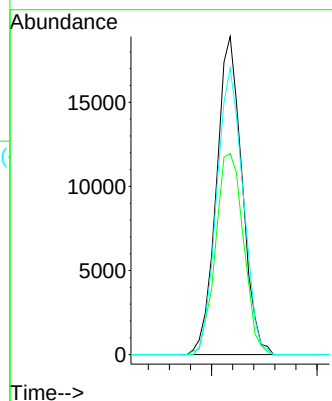
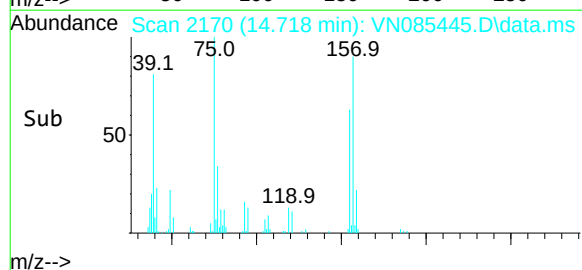
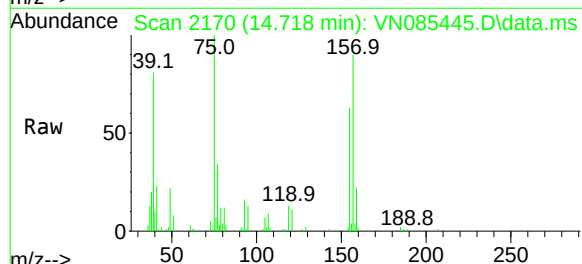
Tgt Ion: 75 Resp: 31899

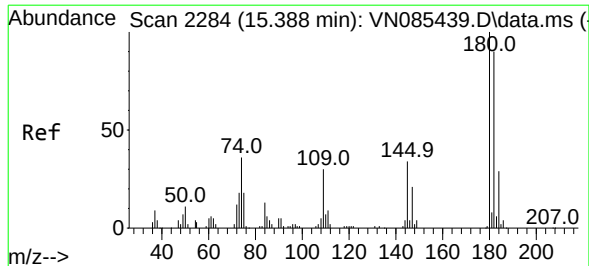
Ion Ratio Lower Upper

75 100

155 69.0 36.4 109.2

157 92.3 45.4 136.1





#93

1,2,4-Trichlorobenzene

Concen: 45.739 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN085445.D

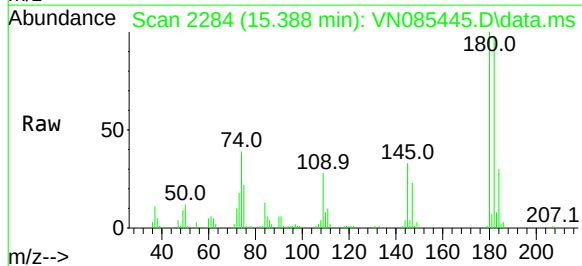
Acq: 14 Jan 2025 18:06

Instrument :

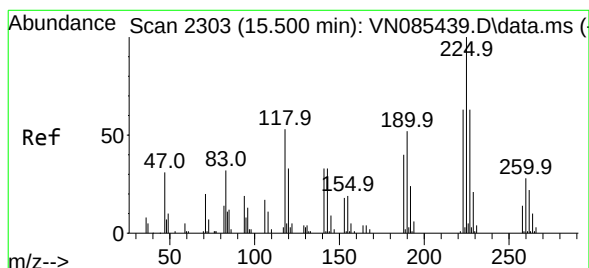
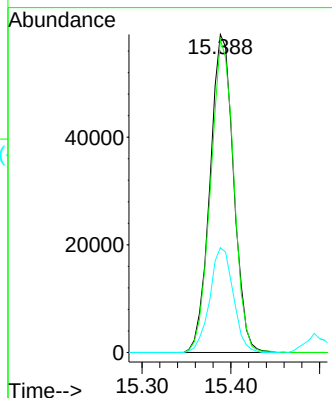
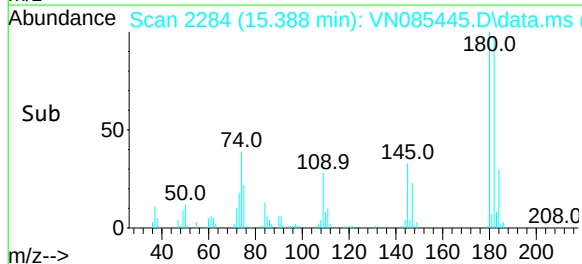
MSVOA_N

ClientSampleId :

ICVVN011425



Tgt Ion:	180	Resp:	109157
Ion Ratio	Lower	Upper	
180	100		
182	96.3	46.8	140.3
145	32.7	16.0	48.0

Manual Integrations
APPROVEDReviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

#94

Hexachlorobutadiene

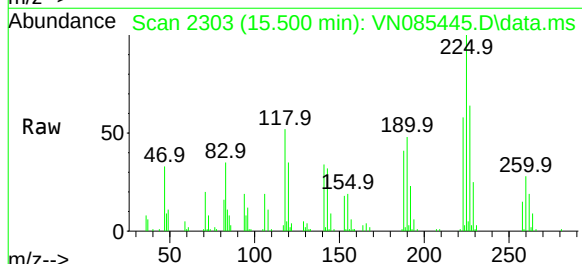
Concen: 42.112 ug/l

RT: 15.500 min Scan# 2303

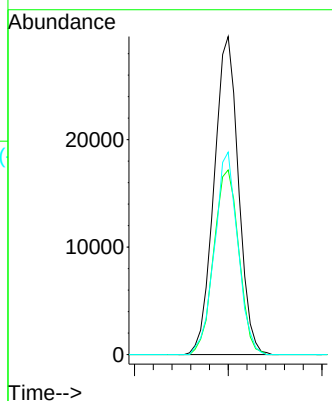
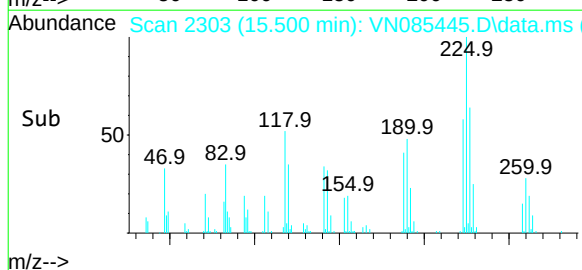
Delta R.T. 0.000 min

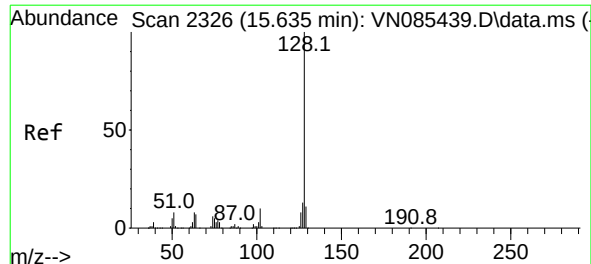
Lab File: VN085445.D

Acq: 14 Jan 2025 18:06



Tgt Ion:	225	Resp:	53358
Ion Ratio	Lower	Upper	
225	100		
223	59.8	30.7	92.1
227	61.2	30.9	92.5





#95

Naphthalene

Concen: 47.116 ug/l

RT: 15.641 min Scan# 2326

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

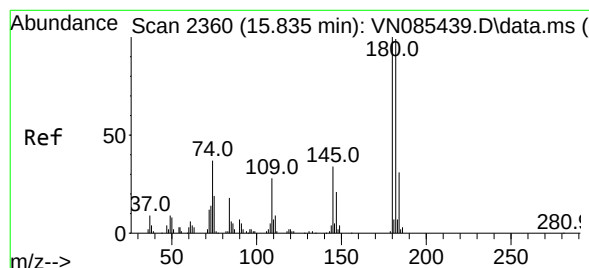
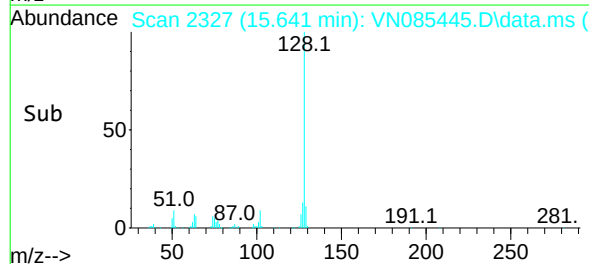
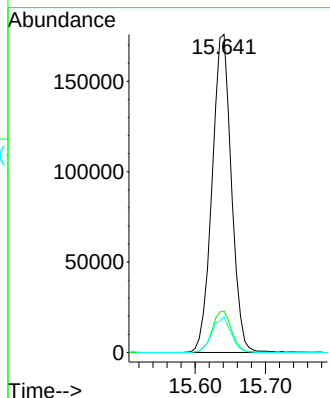
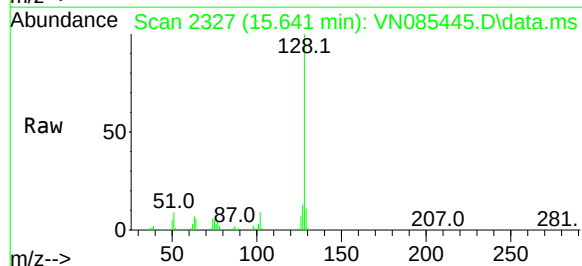
ICVVN011425

Tgt Ion:	128	Resp:	335535
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.6	16.0
129	11.1	8.8	13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#96

1,2,3-Trichlorobenzene

Concen: 44.551 ug/l

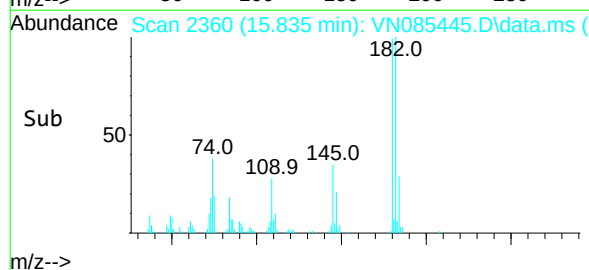
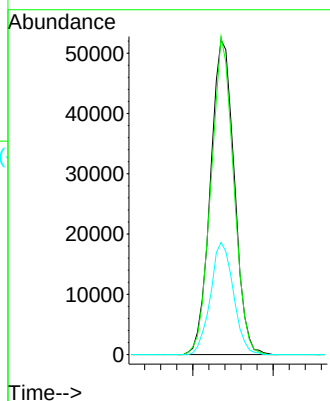
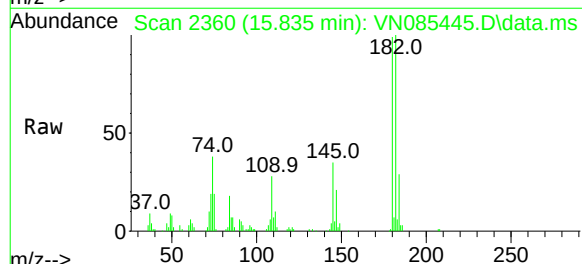
RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion:	180	Resp:	107583
Ion Ratio	Lower	Upper	
180	100		
182	95.6	47.4	142.2
145	34.3	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085445.D
 Acq On : 14 Jan 2025 18:06
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN011425

Quant Time: Jan 15 02:20:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 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	110	0.00
2 T	Dichlorodifluoromethane	0.677	0.593	12.4	104	0.00
3 P	Chloromethane	0.733	0.629	14.2	102	0.00
4 C	Vinyl Chloride	0.737	0.629	14.7#	101	0.00
5 T	Bromomethane	0.445	0.364	18.2	96	0.00
6 T	Chloroethane	0.467	0.395	15.4	103	0.00
7 T	Trichlorofluoromethane	1.069	0.940	12.1	104	0.00
8 T	Diethyl Ether	0.369	0.316	14.4	97	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.602	0.538	10.6	109	0.00
10 T	Methyl Iodide	0.690	0.638	7.5	98	0.00
11 T	Tert butyl alcohol	0.092	0.076	17.4	90	0.00
12 CM	1,1-Dichloroethene	0.537	0.486	9.5#	101	0.00
13 T	Acrolein	0.126	0.124	1.6	97	0.00
14 T	Allyl chloride	0.871	0.775	11.0	101	0.00
15 T	Acrylonitrile	0.294	0.268	8.8	99	0.00
16 T	Acetone	0.261	0.223	14.6	98	0.00
17 T	Carbon Disulfide	1.652	1.366	17.3	102	0.00
18 T	Methyl Acetate	0.793	0.714	10.0	100	0.00
19 T	Methyl tert-butyl Ether	1.742	1.665	4.4	98	0.00
20 T	Methylene Chloride	0.646	0.555	14.1	97	0.00
21 T	trans-1,2-Dichloroethene	0.573	0.512	10.6	102	0.00
22 T	Diisopropyl ether	1.933	1.817	6.0	98	0.00
23 T	Vinyl Acetate	1.353	1.339	1.0	99	0.00
24 P	1,1-Dichloroethane	1.178	1.040	11.7	98	0.00
25 T	2-Butanone	0.384	0.351	8.6	99	0.00
26 T	2,2-Dichloropropane	0.953	0.907	4.8	107	0.00
27 T	cis-1,2-Dichloroethene	0.675	0.614	9.0	99	0.00
28 T	Bromochloromethane	0.548	0.484	11.7	98	0.00
29 T	Tetrahydrofuran	0.243	0.233	4.1	98	0.00
30 C	Chloroform	1.218	1.074	11.8#	101	0.00
31 T	Cyclohexane	1.024	0.878	14.3	110	0.00
32 T	1,1,1-Trichloroethane	1.068	0.947	11.3	103	0.00
33 S	1,2-Dichloroethane-d4	0.807	0.804	0.4	107	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	109	0.00
35 S	Dibromofluoromethane	0.347	0.352	-1.4	107	0.00
36 T	1,1-Dichloropropene	0.487	0.437	10.3	103	0.00
37 T	Ethyl Acetate	0.491	0.434	11.6	97	0.00
38 T	Carbon Tetrachloride	0.557	0.496	11.0	102	0.00
39 T	Methylcyclohexane	0.457	0.455	0.4	107	0.00
40 TM	Benzene	1.463	1.336	8.7	100	0.00
41 T	Methacrylonitrile	0.256	0.241	5.9	97	0.00
42 TM	1,2-Dichloroethane	0.551	0.501	9.1	100	0.00
43 T	Isopropyl Acetate	0.787	0.716	9.0	96	0.00
44 TM	Trichloroethene	0.341	0.297	12.9	100	0.00
45 C	1,2-Dichloropropane	0.374	0.334	10.7#	98	0.00
46 T	Dibromomethane	0.270	0.238	11.9	97	0.00
47 T	Bromodichloromethane	0.549	0.502	8.6	98	0.00
48 T	Methyl methacrylate	0.354	0.354	0.0	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085445.D
 Acq On : 14 Jan 2025 18:06
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN011425

Quant Time: Jan 15 02:20:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.006	0.005	16.7	81	0.00
50 S	Toluene-d8	1.232	1.289	-4.6	111	0.00
51 T	4-Methyl-2-Pentanone	0.457	0.449	1.8	99	0.00
52 CM	Toluene	0.848	0.815	3.9#	102	0.00
53 T	t-1,3-Dichloropropene	0.519	0.496	4.4	98	0.00
54 T	cis-1,3-Dichloropropene	0.554	0.530	4.3	98	0.00
55 T	1,1,2-Trichloroethane	0.335	0.310	7.5	99	0.00
56 T	Ethyl methacrylate	0.469	0.492	-4.9	99	0.00
57 T	1,3-Dichloropropane	0.583	0.547	6.2	99	0.00
58 T	2-Chloroethyl Vinyl ether	0.213	0.218	-2.3	99	0.00
59 T	2-Hexanone	0.321	0.323	-0.6	99	0.00
60 T	Dibromochloromethane	0.405	0.372	8.1	98	0.00
61 T	1,2-Dibromoethane	0.334	0.299	10.5	98	0.00
62 S	4-Bromofluorobenzene	0.422	0.446	-5.7	108	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	108	0.00
64 T	Tetrachloroethene	0.341	0.306	10.3	102	0.00
65 PM	Chlorobenzene	1.095	1.006	8.1	101	0.00
66 T	1,1,1,2-Tetrachloroethane	0.402	0.359	10.7	99	0.00
67 C	Ethyl Benzene	1.784	1.798	-0.8#	104	0.00
68 T	m/p-Xylenes	0.659	0.681	-3.3	104	0.00
69 T	o-Xylene	0.630	0.656	-4.1	104	0.00
70 T	Styrene	1.043	1.108	-6.2	102	0.00
71 P	Bromoform	0.288	0.283	1.7	98	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00
73 T	Isopropylbenzene	3.375	3.371	0.1	106	0.00
74 T	N-amyl acetate	1.517	1.478	2.6	99	0.00
75 P	1,1,2,2-Tetrachloroethane	1.192	1.040	12.8	98	0.00
76 T	1,2,3-Trichloropropane	1.016	0.851	16.2	103	0.00
77 T	Bromobenzene	0.882	0.814	7.7	103	0.00
78 T	n-propylbenzene	3.995	4.075	-2.0	106	0.00
79 T	2-Chlorotoluene	2.586	2.475	4.3	104	0.00
80 T	1,3,5-Trimethylbenzene	2.787	2.877	-3.2	106	0.00
81 T	trans-1,4-Dichloro-2-butene	0.376	0.370	1.6	103	0.00
82 T	4-Chlorotoluene	2.574	2.511	2.4	105	0.00
83 T	tert-Butylbenzene	2.341	2.387	-2.0	106	0.00
84 T	1,2,4-Trimethylbenzene	2.778	2.885	-3.9	103	0.00
85 T	sec-Butylbenzene	3.244	3.360	-3.6	106	0.00
86 T	p-Isopropyltoluene	2.631	2.777	-5.5	105	0.00
87 T	1,3-Dichlorobenzene	1.624	1.491	8.2	103	0.00
88 T	1,4-Dichlorobenzene	1.683	1.484	11.8	103	0.00
89 T	n-Butylbenzene	2.327	2.354	-1.2	103	0.00
90 T	Hexachloroethane	0.618	0.559	9.5	105	0.00
91 T	1,2-Dichlorobenzene	1.620	1.461	9.8	102	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.218	0.201	7.8	98	0.00
93 T	1,2,4-Trichlorobenzene	0.753	0.689	8.5	95	0.00
94 T	Hexachlorobutadiene	0.400	0.337	15.8	99	0.00
95 T	Naphthalene	2.246	2.117	5.7	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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	0.762	0.679	10.9	93	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085445.D
 Acq On : 14 Jan 2025 18:06
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN011425

Quant Time: Jan 15 02:20:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 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	110	0.00
2 T	Dichlorodifluoromethane	50.000	43.772	12.5	104	0.00
3 P	Chloromethane	50.000	42.883	14.2	102	0.00
4 C	Vinyl Chloride	50.000	42.715	14.6#	101	0.00
5 T	Bromomethane	50.000	40.910	18.2	96	0.00
6 T	Chloroethane	50.000	42.299	15.4	103	0.00
7 T	Trichlorofluoromethane	50.000	43.956	12.1	104	0.00
8 T	Diethyl Ether	50.000	42.846	14.3	97	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	44.706	10.6	109	0.00
10 T	Methyl Iodide	50.000	46.259	7.5	98	0.00
11 T	Tert butyl alcohol	250.000	206.633	17.3	90	0.00
12 CM	1,1-Dichloroethene	50.000	45.317	9.4#	101	0.00
13 T	Acrolein	250.000	244.765	2.1	97	0.00
14 T	Allyl chloride	50.000	44.501	11.0	101	0.00
15 T	Acrylonitrile	250.000	227.920	8.8	99	0.00
16 T	Acetone	250.000	213.971	14.4	98	0.00
17 T	Carbon Disulfide	50.000	41.342	17.3	102	0.00
18 T	Methyl Acetate	50.000	45.028	9.9	100	0.00
19 T	Methyl tert-butyl Ether	50.000	47.768	4.5	98	0.00
20 T	Methylene Chloride	50.000	43.017	14.0	97	0.00
21 T	trans-1,2-Dichloroethene	50.000	44.672	10.7	102	0.00
22 T	Diisopropyl ether	50.000	46.996	6.0	98	0.00
23 T	Vinyl Acetate	250.000	247.459	1.0	99	0.00
24 P	1,1-Dichloroethane	50.000	44.114	11.8	98	0.00
25 T	2-Butanone	250.000	228.924	8.4	99	0.00
26 T	2,2-Dichloropropane	50.000	47.593	4.8	107	0.00
27 T	cis-1,2-Dichloroethene	50.000	45.446	9.1	99	0.00
28 T	Bromochloromethane	50.000	44.122	11.8	98	0.00
29 T	Tetrahydrofuran	250.000	239.065	4.4	98	0.00
30 C	Chloroform	50.000	44.071	11.9#	101	0.00
31 T	Cyclohexane	50.000	42.878	14.2	110	0.00
32 T	1,1,1-Trichloroethane	50.000	44.332	11.3	103	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.782	0.4	107	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	109	0.00
35 S	Dibromofluoromethane	50.000	50.768	-1.5	107	0.00
36 T	1,1-Dichloropropene	50.000	44.863	10.3	103	0.00
37 T	Ethyl Acetate	50.000	44.123	11.8	97	0.00
38 T	Carbon Tetrachloride	50.000	44.456	11.1	102	0.00
39 T	Methylcyclohexane	50.000	49.687	0.6	107	0.00
40 TM	Benzene	50.000	45.657	8.7	100	0.00
41 T	Methacrylonitrile	50.000	47.155	5.7	97	0.00
42 TM	1,2-Dichloroethane	50.000	45.481	9.0	100	0.00
43 T	Isopropyl Acetate	50.000	45.440	9.1	96	0.00
44 TM	Trichloroethene	50.000	43.622	12.8	100	0.00
45 C	1,2-Dichloropropane	50.000	44.744	10.5#	98	0.00
46 T	Dibromomethane	50.000	44.214	11.6	97	0.00
47 T	Bromodichloromethane	50.000	45.655	8.7	98	0.00
48 T	Methyl methacrylate	50.000	49.948	0.1	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085445.D
 Acq On : 14 Jan 2025 18:06
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN011425

Quant Time: Jan 15 02:20:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 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	792.760	20.7	81	0.00
50 S	Toluene-d8	50.000	52.302	-4.6	111	0.00
51 T	4-Methyl-2-Pentanone	250.000	245.877	1.6	99	0.00
52 CM	Toluene	50.000	48.073	3.9#	102	0.00
53 T	t-1,3-Dichloropropene	50.000	47.757	4.5	98	0.00
54 T	cis-1,3-Dichloropropene	50.000	47.783	4.4	98	0.00
55 T	1,1,2-Trichloroethane	50.000	46.173	7.7	99	0.00
56 T	Ethyl methacrylate	50.000	43.762	12.5	99	0.00
57 T	1,3-Dichloropropane	50.000	46.877	6.2	99	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	256.116	-2.4	99	0.00
59 T	2-Hexanone	250.000	251.213	-0.5	99	0.00
60 T	Dibromochloromethane	50.000	45.935	8.1	98	0.00
61 T	1,2-Dibromoethane	50.000	44.837	10.3	98	0.00
62 S	4-Bromofluorobenzene	50.000	52.899	-5.8	108	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	108	0.00
64 T	Tetrachloroethene	50.000	44.886	10.2	102	0.00
65 PM	Chlorobenzene	50.000	45.901	8.2	101	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	44.712	10.6	99	0.00
67 C	Ethyl Benzene	50.000	50.391	-0.8#	104	0.00
68 T	m/p-Xylenes	100.000	103.341	-3.3	104	0.00
69 T	o-Xylene	50.000	52.093	-4.2	104	0.00
70 T	Styrene	50.000	53.103	-6.2	102	0.00
71 P	Bromoform	50.000	49.119	1.8	98	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	108	0.00
73 T	Isopropylbenzene	50.000	49.951	0.1	106	0.00
74 T	N-amyl acetate	50.000	48.730	2.5	99	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	43.627	12.7	98	0.00
76 T	1,2,3-Trichloropropane	50.000	41.891	16.2	103	0.00
77 T	Bromobenzene	50.000	46.138	7.7	103	0.00
78 T	n-propylbenzene	50.000	51.001	-2.0	106	0.00
79 T	2-Chlorotoluene	50.000	47.870	4.3	104	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.604	-3.2	106	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	49.226	1.5	103	0.00
82 T	4-Chlorotoluene	50.000	48.776	2.4	105	0.00
83 T	tert-Butylbenzene	50.000	50.997	-2.0	106	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.922	-3.8	103	0.00
85 T	sec-Butylbenzene	50.000	51.777	-3.6	106	0.00
86 T	p-Isopropyltoluene	50.000	47.795	4.4	105	0.00
87 T	1,3-Dichlorobenzene	50.000	45.920	8.2	103	0.00
88 T	1,4-Dichlorobenzene	50.000	44.102	11.8	103	0.00
89 T	n-Butylbenzene	50.000	50.578	-1.2	103	0.00
90 T	Hexachloroethane	50.000	45.215	9.6	105	0.00
91 T	1,2-Dichlorobenzene	50.000	45.113	9.8	102	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	46.221	7.6	98	0.00
93 T	1,2,4-Trichlorobenzene	50.000	45.739	8.5	95	0.00
94 T	Hexachlorobutadiene	50.000	42.112	15.8	99	0.00
95 T	Naphthalene	50.000	47.116	5.8	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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	44.551	10.9	93	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: TETR06

Lab Code: CHEM Case No.: Q1062 SAS No.: Q1062 SDG No.: Q1062

Instrument ID: MSVOA_N Calibration Date/Time: 01/15/2025 09:03

Lab File ID: VN085447.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.733	0.674	0.1	-8.05	20
Vinyl Chloride	0.737	0.696		-5.56	20
Bromomethane	0.445	0.401		-9.89	20
Chloroethane	0.467	0.426		-8.78	20
Trichlorofluoromethane	1.069	1.042		-2.53	20
1,1,2-Trichlorotrifluoroethane	0.602	0.600		-0.33	20
1,1-Dichloroethene	0.537	0.531		-1.12	20
Acetone	0.261	0.230		-11.88	20
Carbon Disulfide	1.652	1.522		-7.87	20
Methyl tert-butyl Ether	1.742	1.757		0.86	20
Methylene Chloride	0.646	0.605		-6.35	20
trans-1,2-Dichloroethene	0.573	0.562		-1.92	20
1,1-Dichloroethane	1.178	1.146	0.1	-2.72	20
2-Butanone	0.384	0.337		-12.24	20
Carbon Tetrachloride	0.557	0.563		1.08	20
cis-1,2-Dichloroethene	0.675	0.674		-0.15	20
Chloroform	1.218	1.163		-4.52	20
1,1,1-Trichloroethane	1.068	1.035		-3.09	20
Methylcyclohexane	0.457	0.528		15.54	20
Benzene	1.463	1.504		2.8	20
1,2-Dichloroethane	0.551	0.550		-0.18	20
Trichloroethene	0.341	0.345		1.17	20
1,2-Dichloropropane	0.374	0.377		0.8	20
Bromodichloromethane	0.549	0.568		3.46	20
4-Methyl-2-Pentanone	0.457	0.440		-3.72	20
Toluene	0.848	0.916		8.02	20
t-1,3-Dichloropropene	0.519	0.555		6.94	20
cis-1,3-Dichloropropene	0.554	0.594		7.22	20
1,1,2-Trichloroethane	0.335	0.337		0.6	20
2-Hexanone	0.321	0.312		-2.8	20
Dibromochloromethane	0.405	0.408		0.74	20
Tetrachloroethene	0.341	0.355		4.11	20
Chlorobenzene	1.095	1.101	0.3	0.55	20
Ethyl Benzene	1.784	1.967		10.26	20
m/p-Xylenes	0.659	0.755		14.57	20
o-Xylene	0.630	0.699		10.95	20
Styrene	1.043	1.208		15.82	20
Bromoform	0.288	0.302	0.1	4.86	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1062 SAS No.: Q1062 SDG No.: Q1062

Instrument ID: MSVOA_N Calibration Date/Time: 01/15/2025 09:03

Lab File ID: VN085447.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.375	3.662		8.5	20
1,1,2,2-Tetrachloroethane	1.192	1.047	0.3	-12.16	20
1,3-Dichlorobenzene	1.624	1.628		0.25	20
1,4-Dichlorobenzene	1.683	1.618		-3.86	20
1,2-Dichlorobenzene	1.620	1.533		-5.37	20
1,2-Dichloroethane-d4	0.807	0.819		1.49	20
Dibromofluoromethane	0.347	0.369		6.34	20
Toluene-d8	1.232	1.356		10.06	20
4-Bromofluorobenzene	0.422	0.469		11.14	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\VN011525\
 Data File : VN085447.D
 Acq On : 15 Jan 2025 09:03
 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 :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:51:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	218273	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	358609	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	316952	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	158347	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.571	65	178793	50.745	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	101.480%
35) Dibromofluoromethane	8.159	113	132381	53.211	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	106.420%
50) Toluene-d8	10.559	98	486444	55.032	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	110.060%
62) 4-Bromofluorobenzene	12.847	95	168340	55.673	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	111.340%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	143408	48.525	ug/l	99
3) Chloromethane	2.359	50	147166	45.992	ug/l	98
4) Vinyl Chloride	2.518	62	151933	47.239	ug/l	99
5) Bromomethane	2.959	94	87556	45.067	ug/l	97
6) Chloroethane	3.124	64	93081	45.648	ug/l	95
7) Trichlorofluoromethane	3.500	101	227366	48.720	ug/l	100
8) Diethyl Ether	3.959	74	73785	45.767	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	130921	49.808	ug/l	99
10) Methyl Iodide	4.589	142	149033	49.511	ug/l	98
11) Tert butyl alcohol	5.506	59	74825	185.463	ug/l	100
12) 1,1-Dichloroethene	4.336	96	115861	49.459	ug/l	99
13) Acrolein	4.177	56	131470	238.713	ug/l	99
14) Allyl chloride	5.018	41	181372	47.714	ug/l	99
15) Acrylonitrile	5.712	53	284008	221.624	ug/l	99
16) Acetone	4.418	43	250548	220.081	ug/l	100
17) Carbon Disulfide	4.712	76	332259	46.066	ug/l	99
18) Methyl Acetate	5.018	43	152823	44.146	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	383442	50.410	ug/l	98
20) Methylene Chloride	5.271	84	132073	46.863	ug/l	97
21) trans-1,2-Dichloroethene	5.789	96	122694	49.008	ug/l	99
22) Diisopropyl ether	6.665	45	429155	50.865	ug/l	99
23) Vinyl Acetate	6.594	43	1530873	259.270	ug/l	99
24) 1,1-Dichloroethane	6.565	63	250056	48.606	ug/l	99
25) 2-Butanone	7.477	43	367726	219.497	ug/l	98
26) 2,2-Dichloropropane	7.483	77	224423	53.956	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	147121	49.893	ug/l	100
28) Bromochloromethane	7.806	49	117821	49.226	ug/l	99
29) Tetrahydrofuran	7.830	42	245371	231.013	ug/l	99
30) Chloroform	7.959	83	253854	47.743	ug/l	99
31) Cyclohexane	8.253	56	205522	45.962	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	225987	48.453	ug/l	99
36) 1,1-Dichloropropene	8.365	75	180278	51.631	ug/l	99
37) Ethyl Acetate	7.553	43	157899	44.802	ug/l	97
38) Carbon Tetrachloride	8.359	117	201730	50.466	ug/l	99
39) Methylcyclohexane	9.594	83	189425	57.732	ug/l	98
40) Benzene	8.600	78	539436	51.417	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085447.D
 Acq On : 15 Jan 2025 09:03
 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 :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:51:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M

Quant Title : SW846 8260

QLast Update : Wed Jan 15 02:16:08 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	90556	49.387	ug/l	98
42) 1,2-Dichloroethane	8.665	62	197097	49.881	ug/l	99
43) Isopropyl Acetate	8.682	43	266284	47.153	ug/l	99
44) Trichloroethene	9.347	130	123817	50.700	ug/l	97
45) 1,2-Dichloropropane	9.612	63	135244	50.468	ug/l	96
46) Dibromomethane	9.706	93	94501	48.873	ug/l	98
47) Bromodichloromethane	9.882	83	203552	51.671	ug/l	99
48) Methyl methacrylate	9.677	41	129471	50.945	ug/l	98
49) 1,4-Dioxane	9.688	88	37393	873.742	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	789380	240.885	ug/l	99
52) Toluene	10.624	92	328434	54.029	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	198974	53.447	ug/l	95
54) cis-1,3-Dichloropropene	10.306	75	213072	53.582	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	120803	50.215	ug/l	99
56) Ethyl methacrylate	10.871	69	184561	45.714	ug/l	99
57) 1,3-Dichloropropane	11.159	76	211921	50.662	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.153	63	416723	272.966	ug/l	100
59) 2-Hexanone	11.188	43	558711	242.307	ug/l	100
60) Dibromochloromethane	11.353	129	146358	50.392	ug/l	99
61) 1,2-Dibromoethane	11.465	107	117431	49.039	ug/l	99
64) Tetrachloroethene	11.100	164	112592	52.107	ug/l	96
65) Chlorobenzene	11.888	112	348954	50.257	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.953	131	126127	49.494	ug/l	99
67) Ethyl Benzene	11.959	91	623373	55.122	ug/l	98
68) m/p-Xylenes	12.065	106	478857	114.570	ug/l	98
69) o-Xylene	12.394	106	221609	55.481	ug/l	98
70) Styrene	12.406	104	382963	57.933	ug/l	100
71) Bromoform	12.570	173	95715	52.493	ug/l #	97
73) Isopropylbenzene	12.688	105	579887	54.261	ug/l	100
74) N-amyl acetate	12.488	43	229808	47.841	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	165720	43.898	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	150178m	46.662	ug/l	
77) Bromobenzene	12.976	156	137136	49.115	ug/l	96
78) n-propylbenzene	13.029	91	703936	55.640	ug/l	100
79) 2-Chlorotoluene	13.123	91	423036	51.665	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	492256	55.763	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	58114	48.853	ug/l	92
82) 4-Chlorotoluene	13.217	91	425288	52.164	ug/l	100
83) tert-Butylbenzene	13.435	119	405351	54.680	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	498787	56.692	ug/l	97
85) sec-Butylbenzene	13.612	105	580478	56.497	ug/l	99
86) p-Isopropyltoluene	13.723	119	492423	52.852	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	257806	50.137	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	256221	48.073	ug/l	99
89) n-Butylbenzene	14.053	91	424966	57.654	ug/l	98
90) Hexachloroethane	14.329	117	95205	48.675	ug/l	99
91) 1,2-Dichlorobenzene	14.100	146	242707	47.320	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	29578	42.906	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	120596	50.589	ug/l	98
94) Hexachlorobutadiene	15.494	225	60079	47.470	ug/l	97
95) Naphthalene	15.635	128	327305	46.012	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	113937	47.236	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085447.D
Acq On : 15 Jan 2025 09:03
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 :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:51:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

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

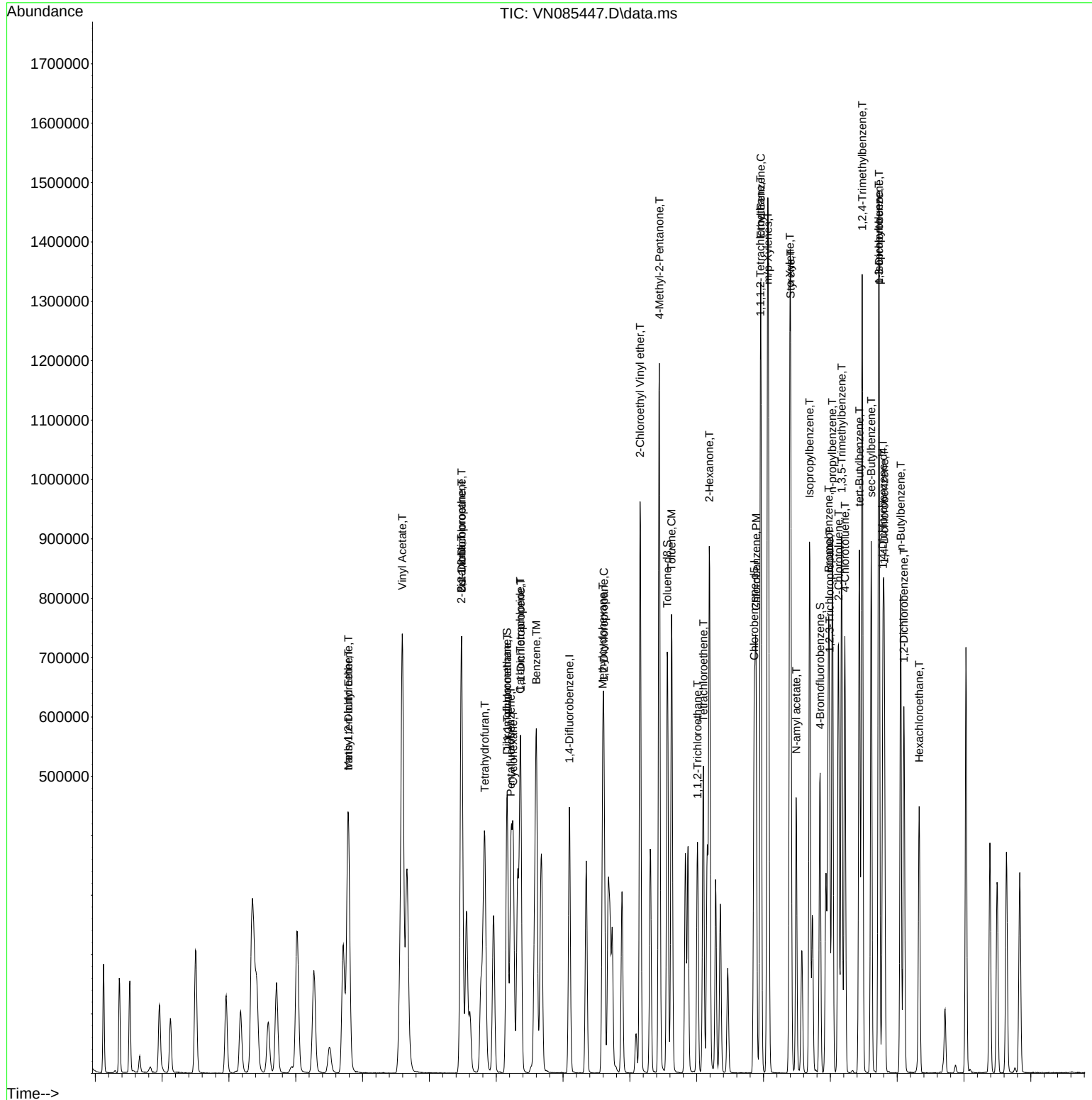
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085447.D
Acq On : 15 Jan 2025 09:03
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

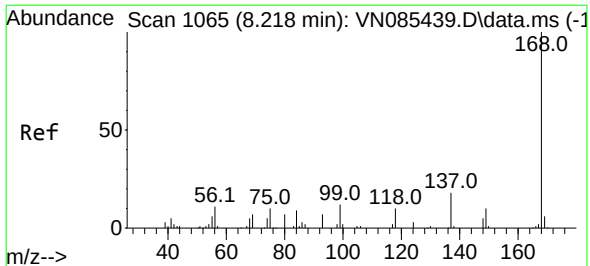
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By : Mahesh Dadoda 01/16/2025
Supervised By : Semsettin Yesilyurt 01/16/2025

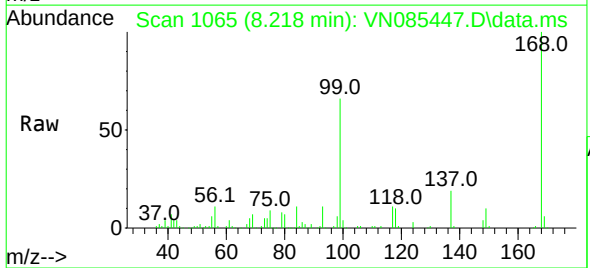
Quant Time: Jan 16 00:51:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

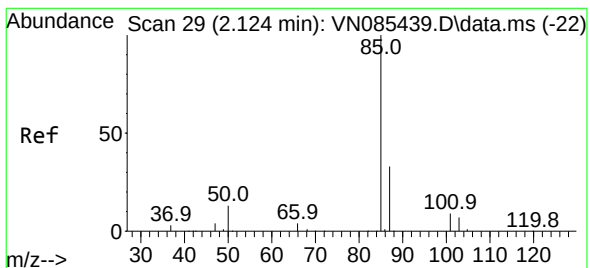
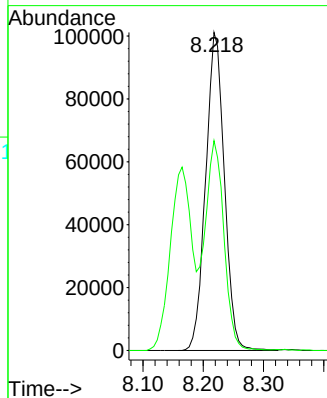
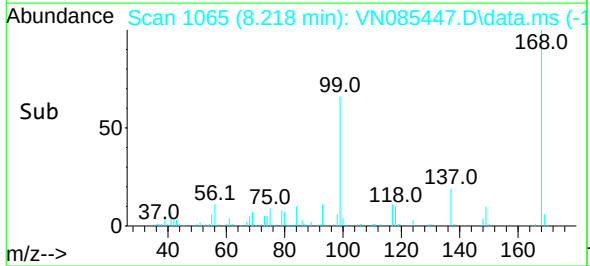
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 168 Resp: 218273
Ion Ratio Lower Upper
168 100
99 65.7 53.6 80.4

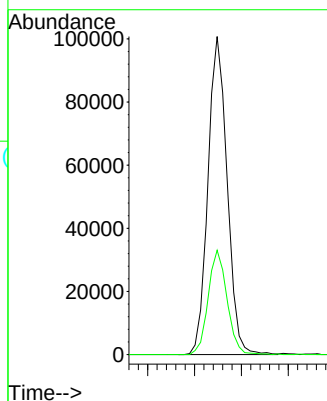
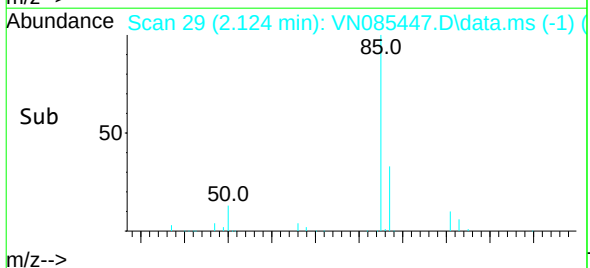
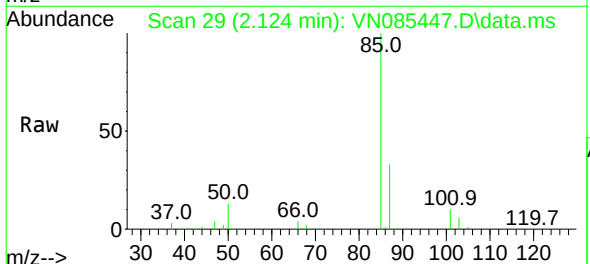
Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

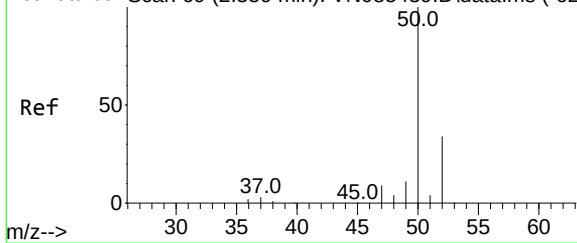


#2
Dichlorodifluoromethane
Concen: 48.525 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 85 Resp: 143408
Ion Ratio Lower Upper
85 100
87 32.8 16.7 50.1



Abundance Scan 69 (2.359 min): VN085439.D\data.ms (-62)



#3

Chloromethane

Concen: 45.992 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 50 Resp: 147166

Ion Ratio Lower Upper

50 100

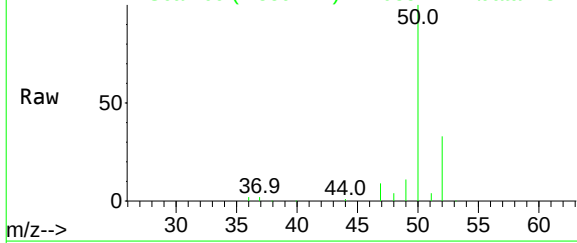
52 32.9 27.0 40.6

Manual Integrations

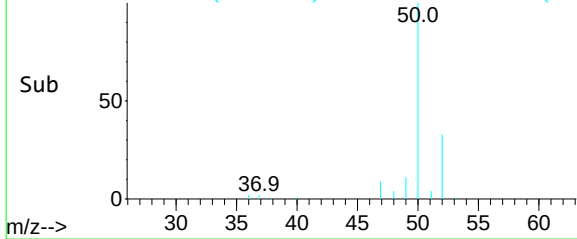
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

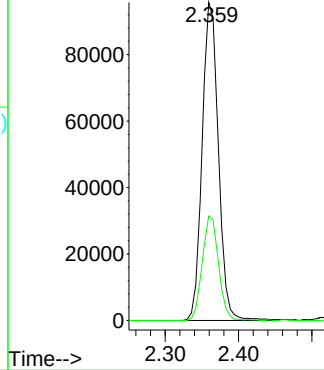
Abundance Scan 69 (2.359 min): VN085447.D\data.ms



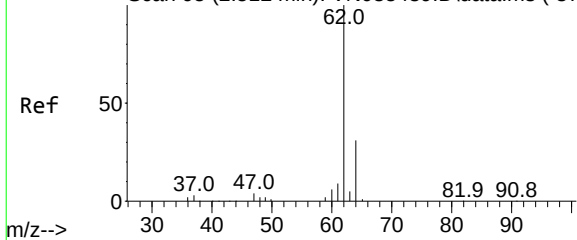
Abundance Scan 69 (2.359 min): VN085447.D\data.ms (-18)



Abundance



Abundance Scan 95 (2.512 min): VN085439.D\data.ms (-87)



#4

Vinyl Chloride

Concen: 47.239 ug/l

RT: 2.518 min Scan# 96

Delta R.T. 0.006 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

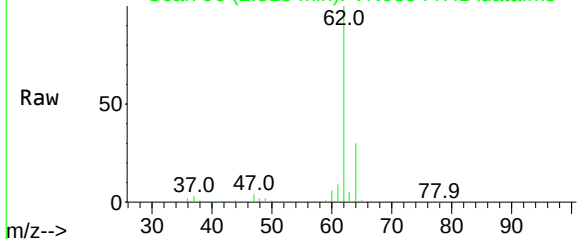
Tgt Ion: 62 Resp: 151933

Ion Ratio Lower Upper

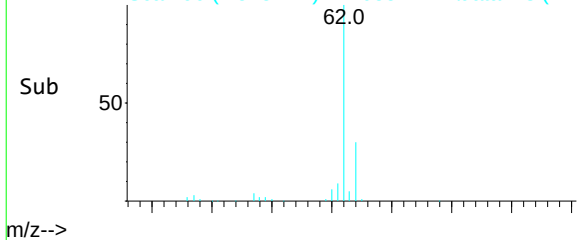
62 100

64 30.3 24.8 37.2

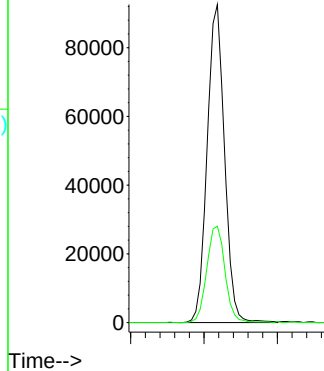
Abundance Scan 96 (2.518 min): VN085447.D\data.ms

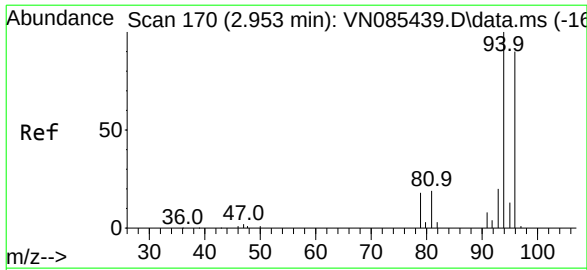


Abundance Scan 96 (2.518 min): VN085447.D\data.ms (-44)



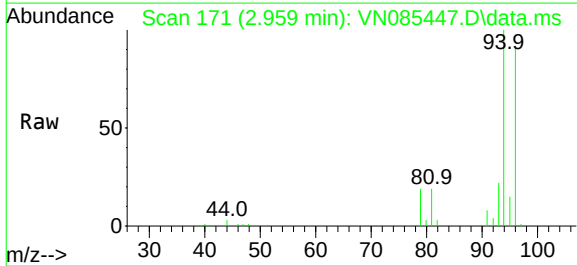
Abundance





#5
Bromomethane
Concen: 45.067 ug/l
RT: 2.959 min Scan# 171
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

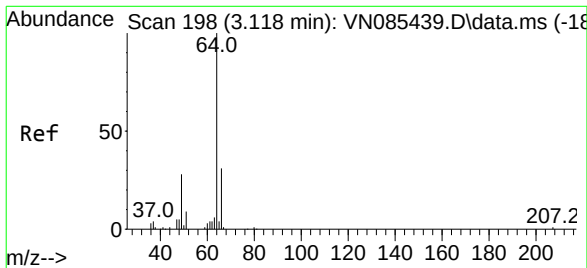
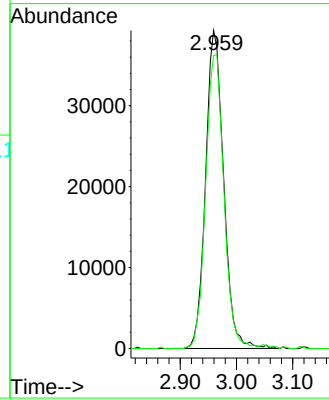
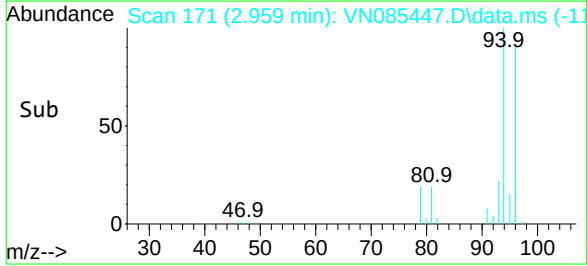
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 94 Resp: 87556
Ion Ratio Lower Upper
94 100
96 92.2 71.8 107.6

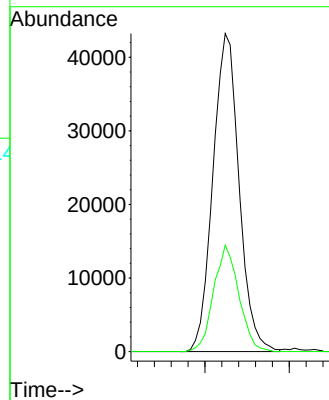
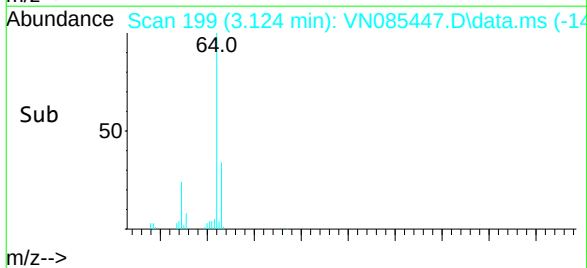
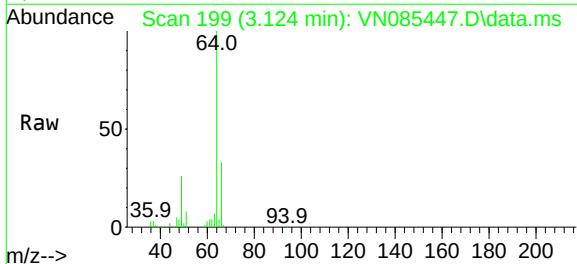
Manual Integrations
APPROVED

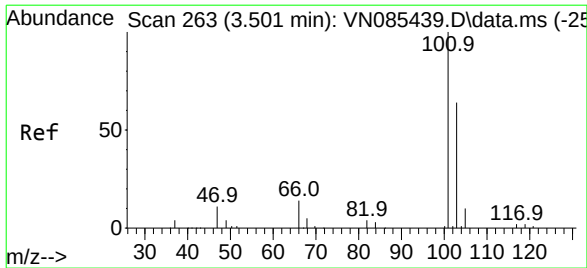
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#6
Chloroethane
Concen: 45.648 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

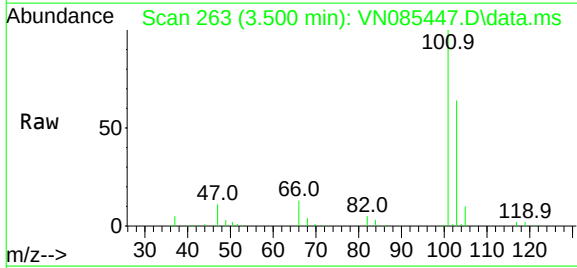
Tgt Ion: 64 Resp: 93081
Ion Ratio Lower Upper
64 100
66 33.5 24.6 36.8





#7
Trichlorofluoromethane
Concen: 48.720 ug/l
RT: 3.500 min Scan# 263
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

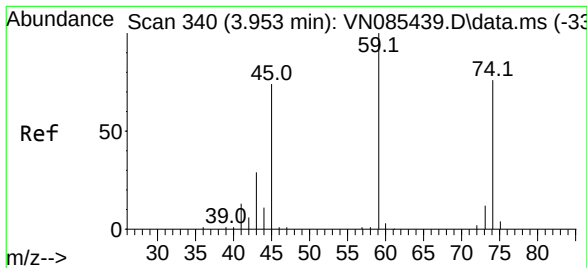
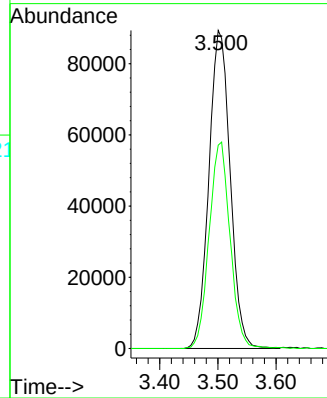
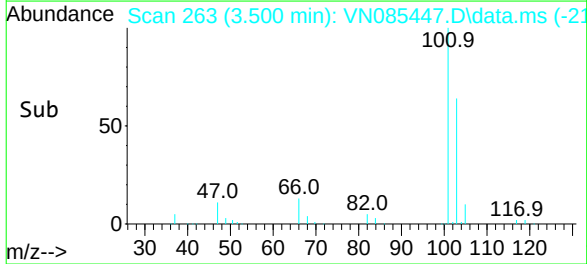
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 101 Resp: 227366
Ion Ratio Lower Upper
101 100
103 63.9 51.4 77.2

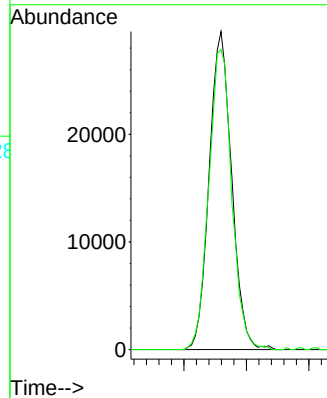
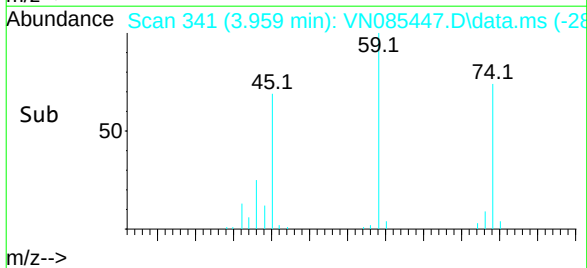
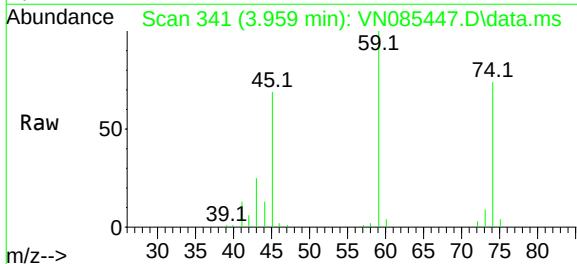
Manual Integrations
APPROVED

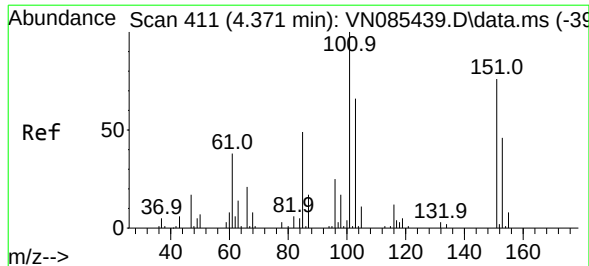
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#8
Diethyl Ether
Concen: 45.767 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 74 Resp: 73785
Ion Ratio Lower Upper
74 100
45 96.7 49.7 149.1





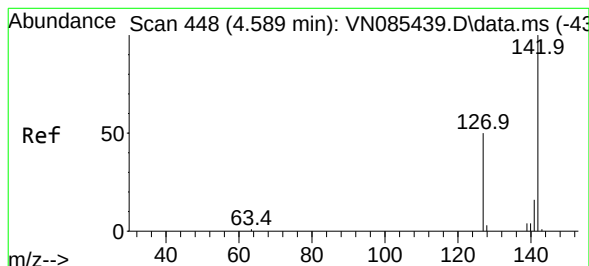
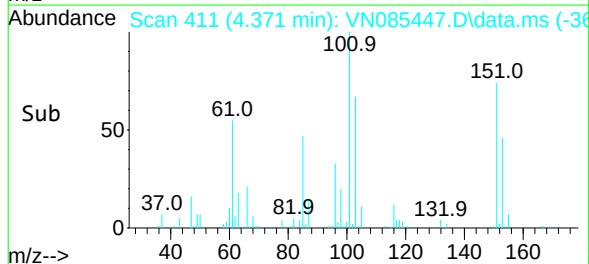
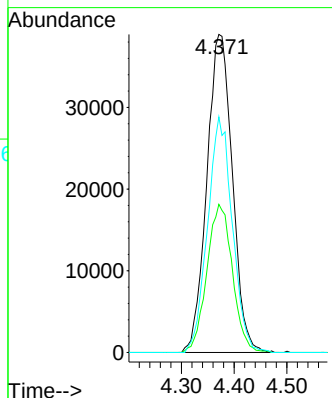
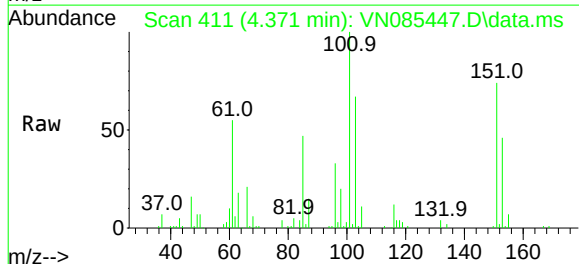
#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.808 ug/l
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 130921
Ion Ratio Lower Upper
101 100
85 46.6 37.8 56.8
151 72.0 58.8 88.2

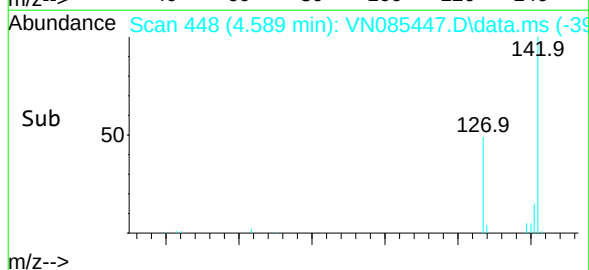
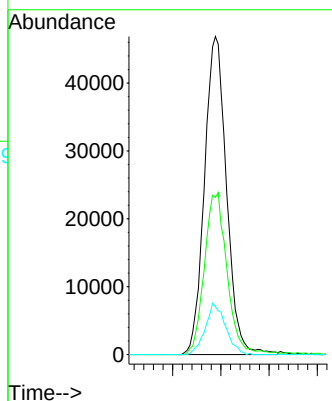
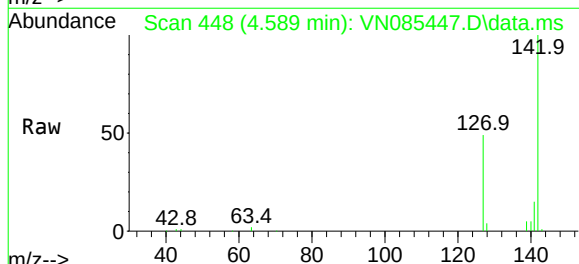
Manual Integrations
APPROVED

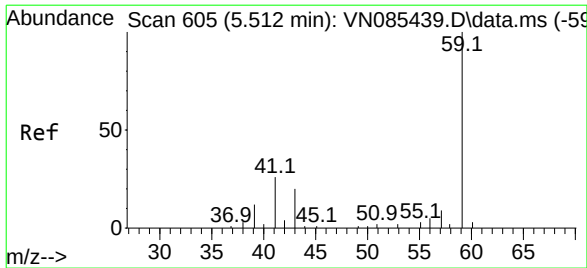
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#10
Methyl Iodide
Concen: 49.511 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:142 Resp: 149033
Ion Ratio Lower Upper
142 100
127 49.4 40.3 60.5
141 15.0 12.8 19.2





#11

Tert butyl alcohol

Concen: 185.463 ug/l

RT: 5.506 min Scan# 605

Delta R.T. -0.006 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 74825

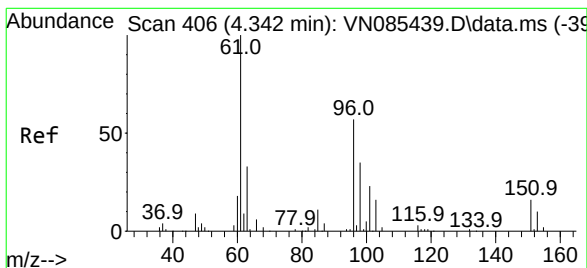
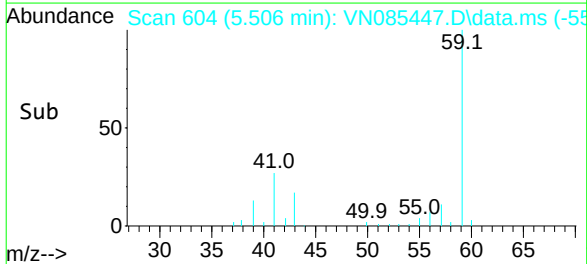
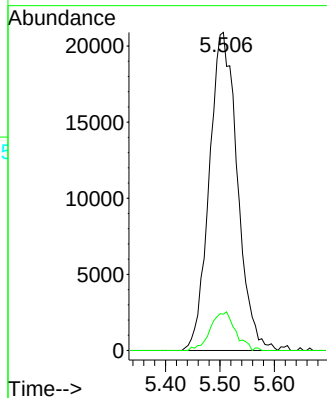
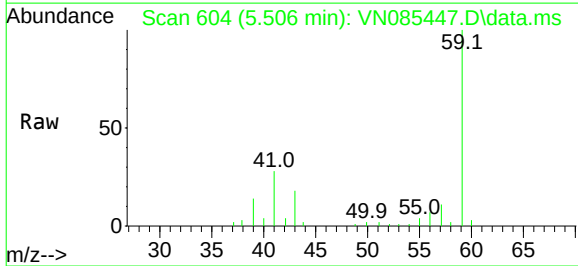
Ion Ratio Lower Upper

59 100

57 10.9 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#12

1,1-Dichloroethene

Concen: 49.459 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.006 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

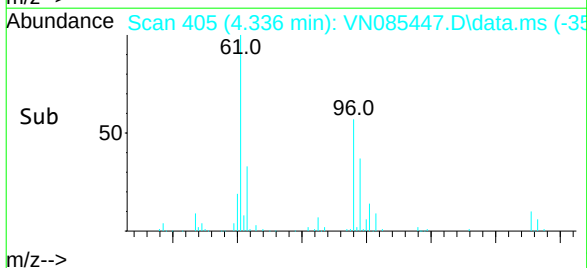
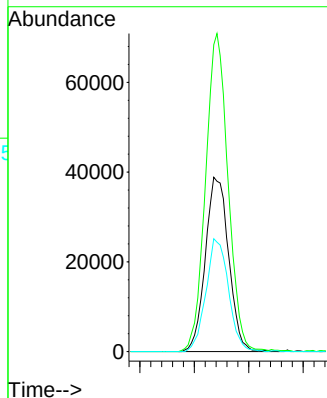
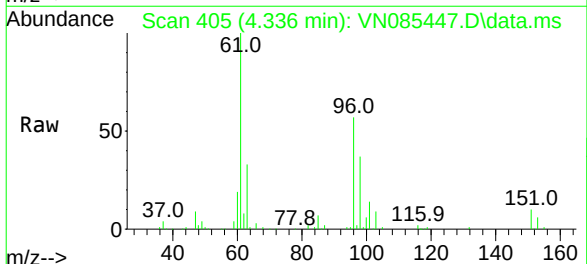
Tgt Ion: 96 Resp: 115861

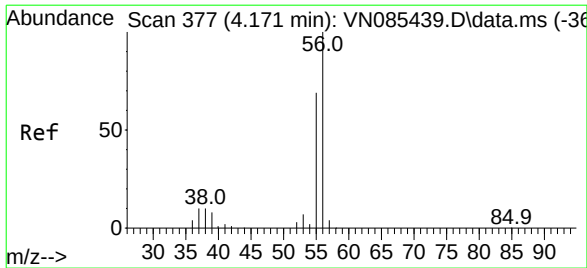
Ion Ratio Lower Upper

96 100

61 176.0 141.0 211.4

98 64.8 49.0 73.6





#13

Acrolein

Concen: 238.713 ug/l

RT: 4.177 min Scan# 377

Delta R.T. 0.006 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 131476

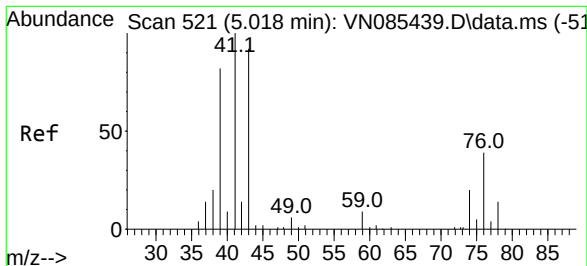
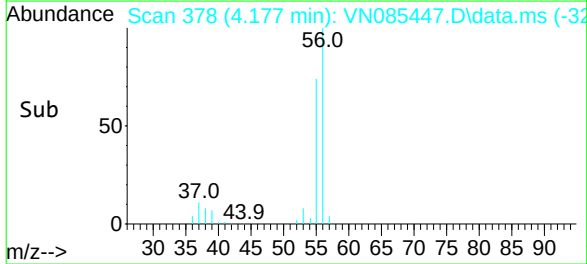
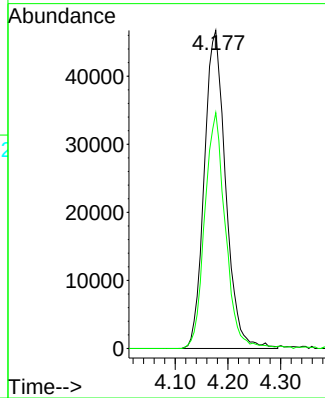
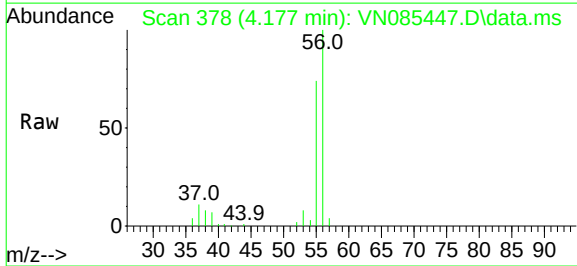
Ion Ratio Lower Upper

56 100

55 71.5 56.3 84.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#14

Allyl chloride

Concen: 47.714 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

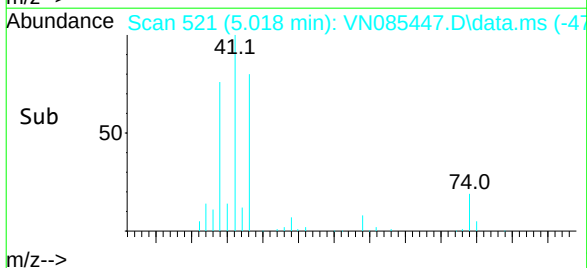
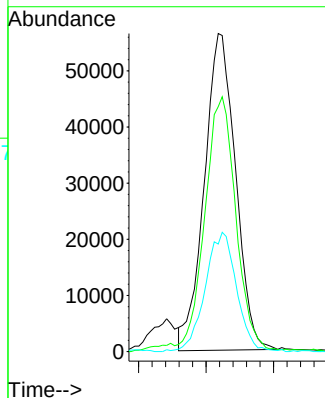
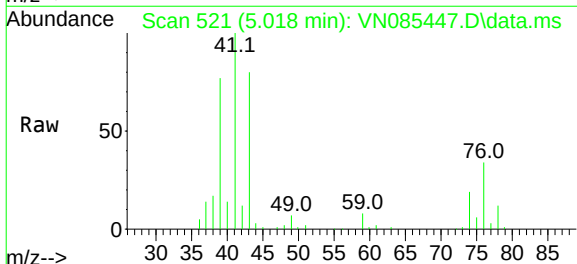
Tgt Ion: 41 Resp: 181372

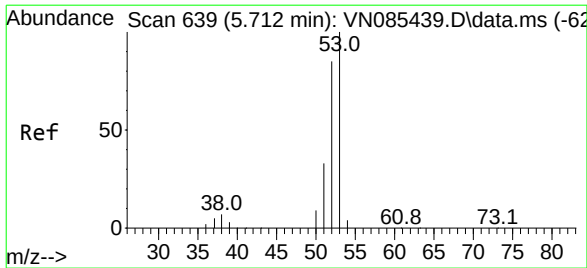
Ion Ratio Lower Upper

41 100

39 81.7 64.4 96.6

76 37.8 30.5 45.7





#15

Acrylonitrile

Concen: 221.624 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 53 Resp: 284008

Ion Ratio Lower Upper

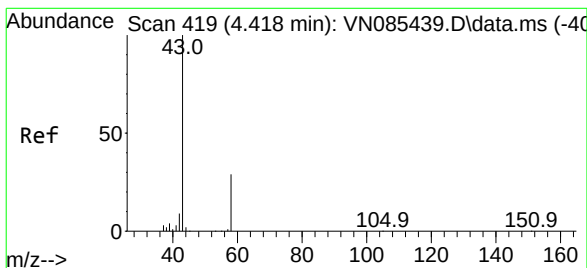
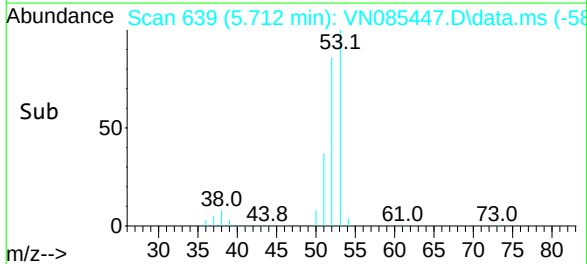
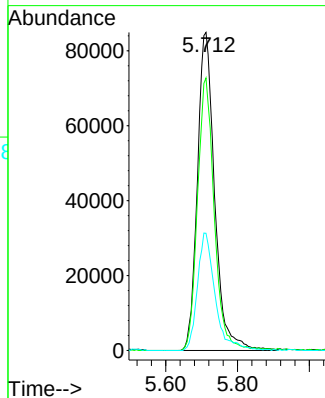
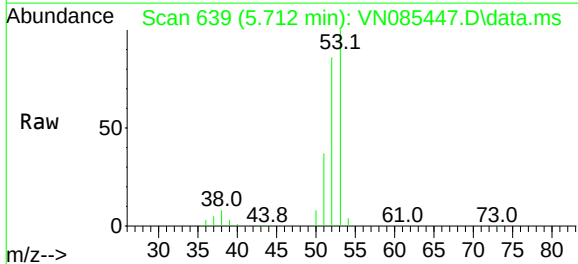
53 100

52 82.6 65.5 98.3

51 37.8 29.8 44.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#16

Acetone

Concen: 220.081 ug/l

RT: 4.418 min Scan# 419

Delta R.T. -0.000 min

Lab File: VN085447.D

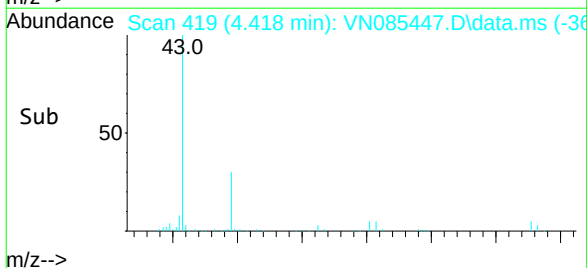
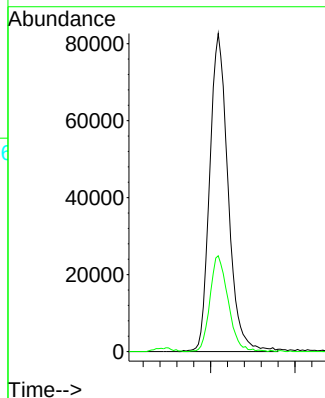
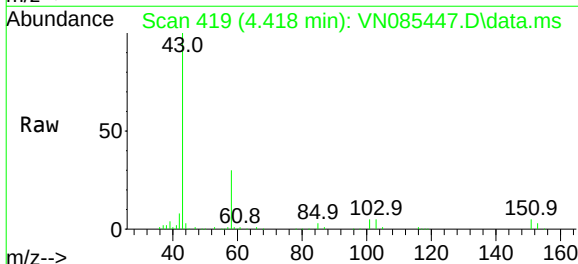
Acq: 15 Jan 2025 09:03

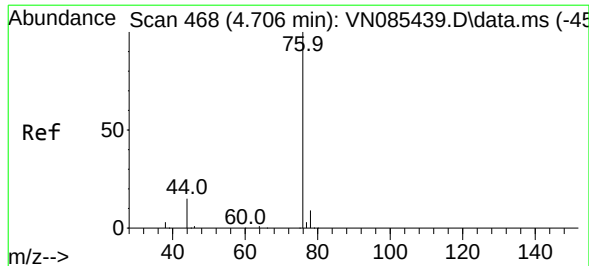
Tgt Ion: 43 Resp: 250548

Ion Ratio Lower Upper

43 100

58 29.9 23.8 35.6





#17

Carbon Disulfide

Concen: 46.066 ug/l

RT: 4.712 min Scan# 468

Delta R.T. 0.006 min

Lab File: VN085447.D

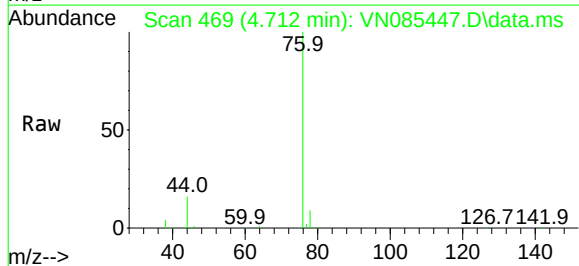
Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050



Tgt Ion: 76 Resp: 332259

Ion Ratio Lower Upper

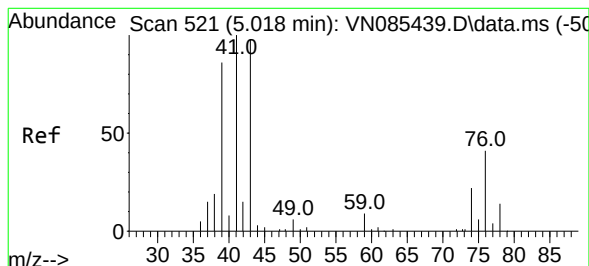
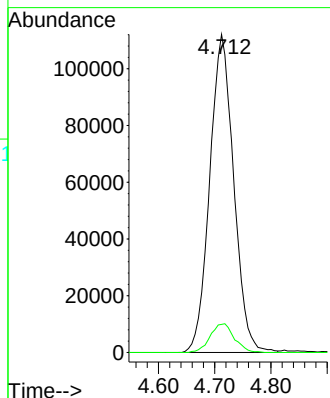
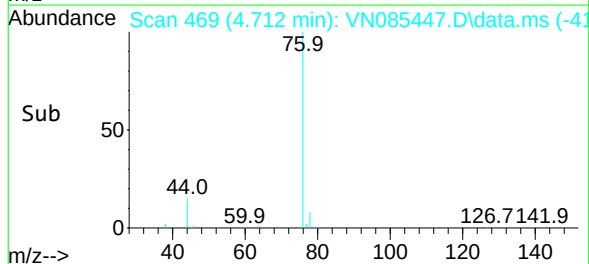
76 100

78 8.8 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#18

Methyl Acetate

Concen: 44.146 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085447.D

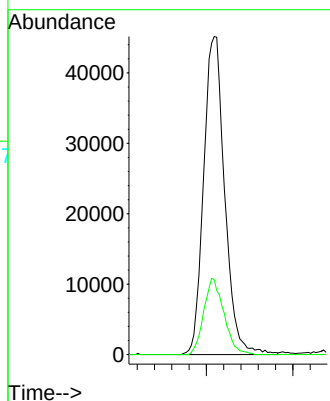
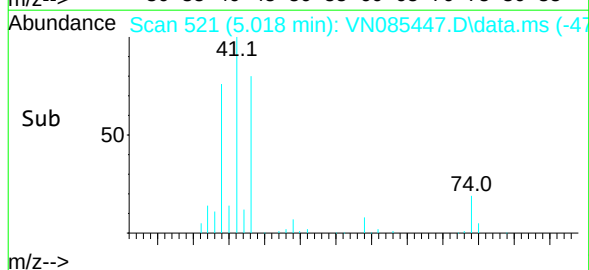
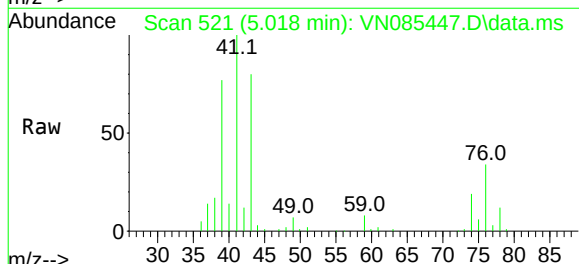
Acq: 15 Jan 2025 09:03

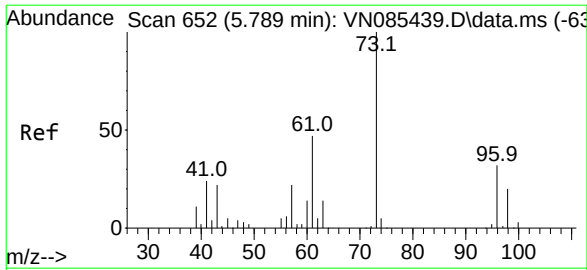
Tgt Ion: 43 Resp: 152823

Ion Ratio Lower Upper

43 100

74 22.9 18.6 28.0





#19

Methyl tert-butyl Ether

Concen: 50.410 ug/l

RT: 5.789 min Scan# 65

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 383442

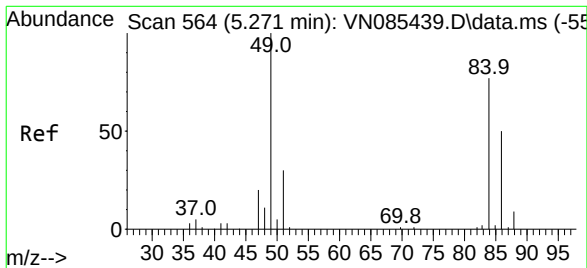
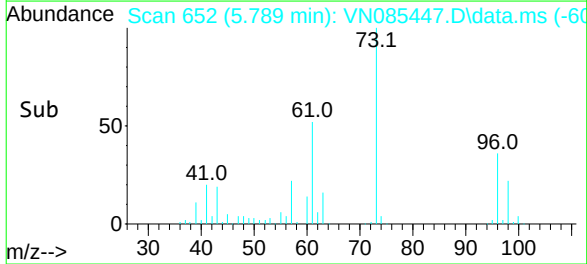
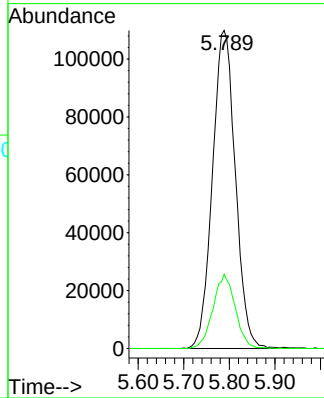
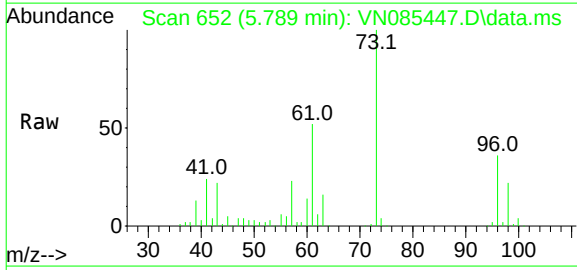
Ion Ratio Lower Upper

73 100

57 23.4 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#20

Methylene Chloride

Concen: 46.863 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Tgt Ion: 84 Resp: 132073

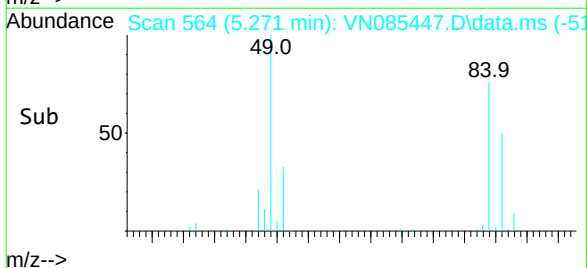
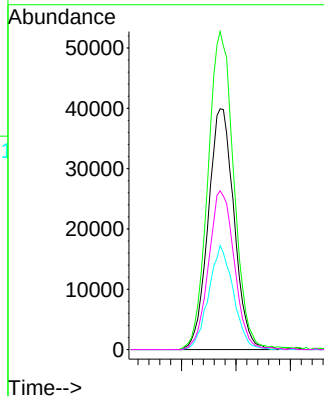
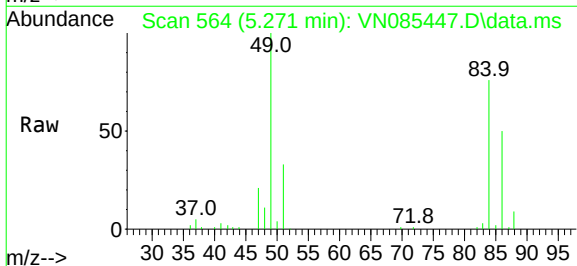
Ion Ratio Lower Upper

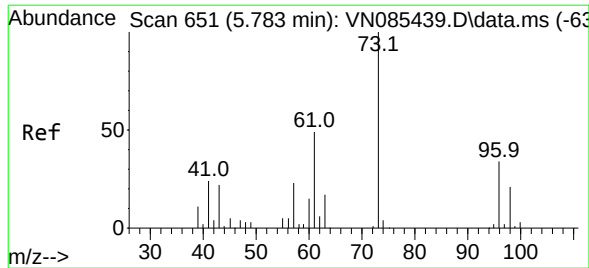
84 100

49 132.1 104.1 156.1

51 43.2 31.0 46.4

86 65.9 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 49.008 ug/l

RT: 5.789 min Scan# 651

Delta R.T. 0.006 min

Lab File: VN085447.D

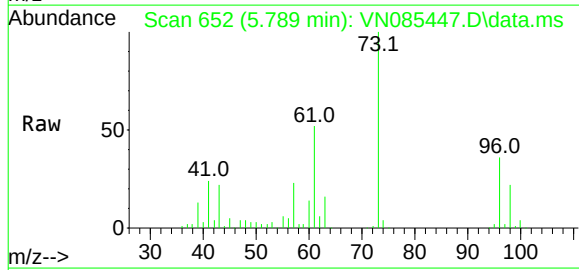
Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050



Tgt Ion: 96 Resp: 122694

Ion Ratio Lower Upper

96 100

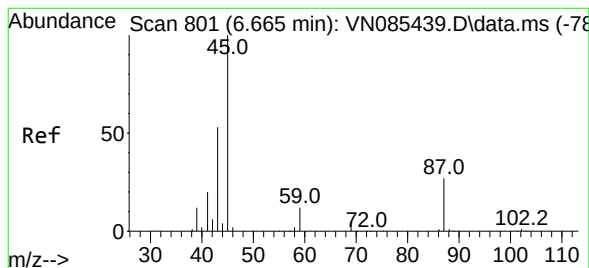
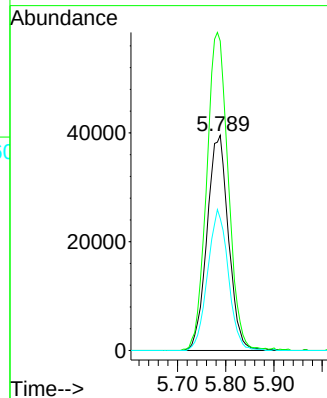
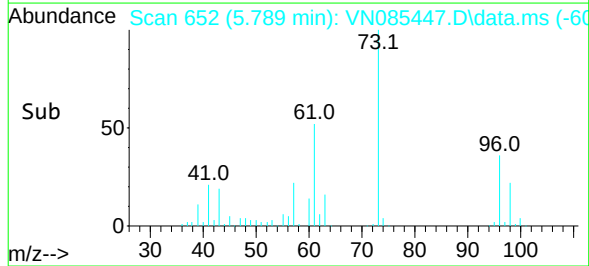
61 143.8 115.7 173.5

98 61.4 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#22

Diisopropyl ether

Concen: 50.865 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Tgt Ion: 45 Resp: 429155

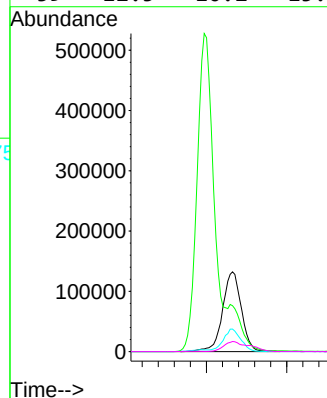
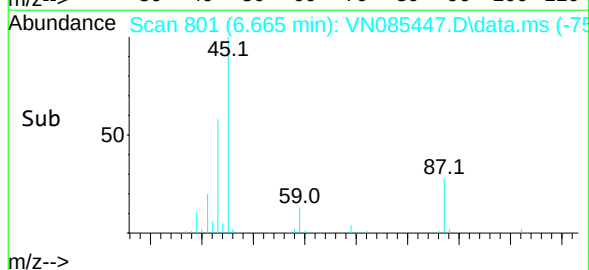
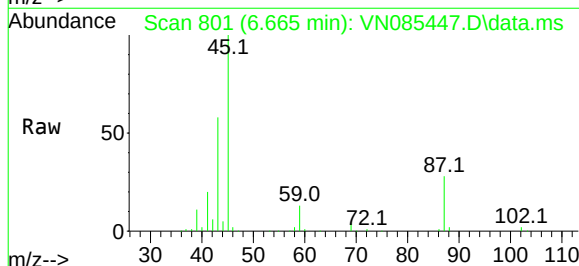
Ion Ratio Lower Upper

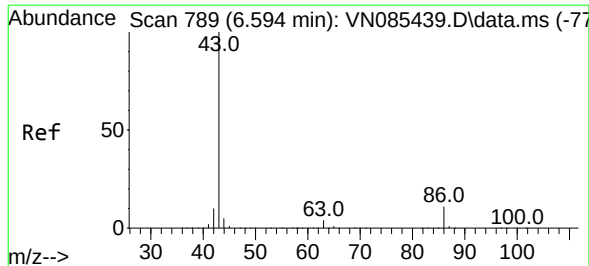
45 100

43 56.6 45.0 67.6

87 28.3 21.8 32.8

59 12.5 10.2 15.2





#23

Vinyl Acetate

Concen: 259.270 ug/l

RT: 6.594 min Scan# 789

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 1530873

Ion Ratio Lower Upper

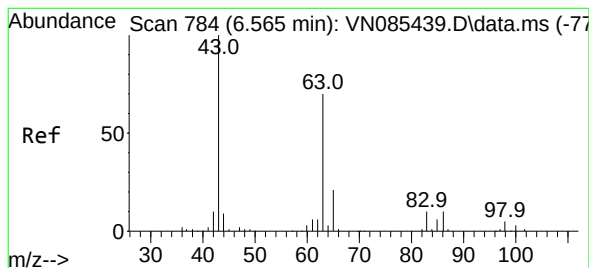
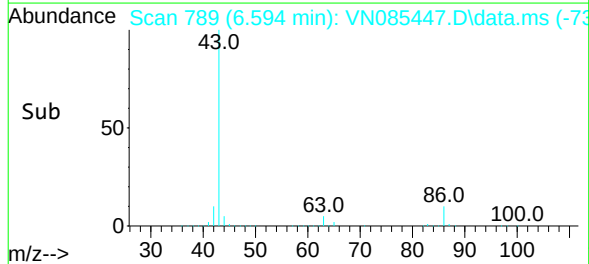
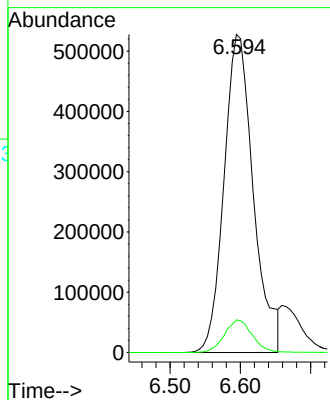
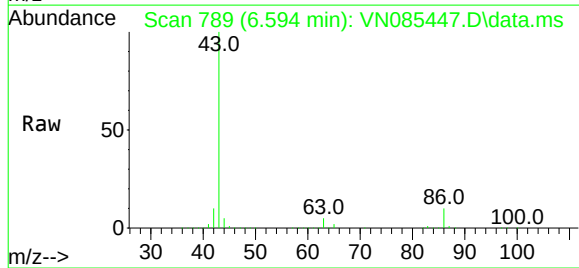
43 100

86 10.2 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025



#24

1,1-Dichloroethane

Concen: 48.606 ug/l

RT: 6.565 min Scan# 784

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

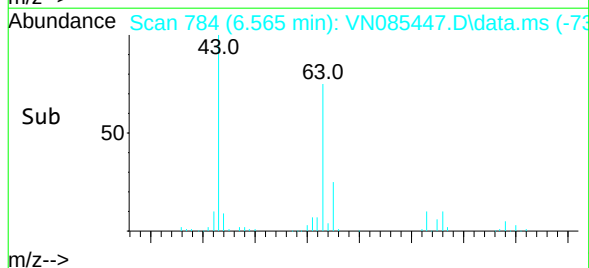
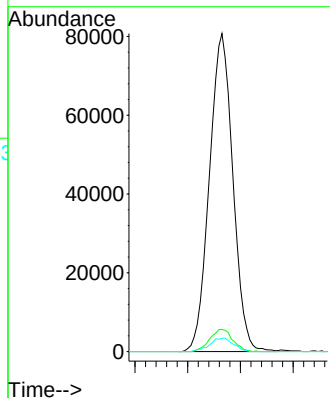
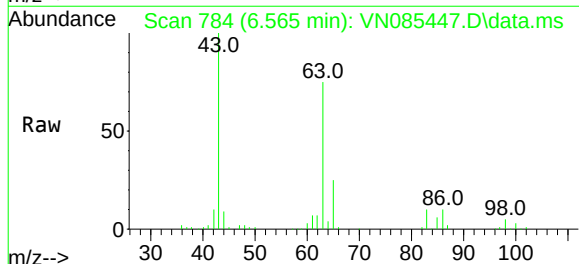
Tgt Ion: 63 Resp: 250056

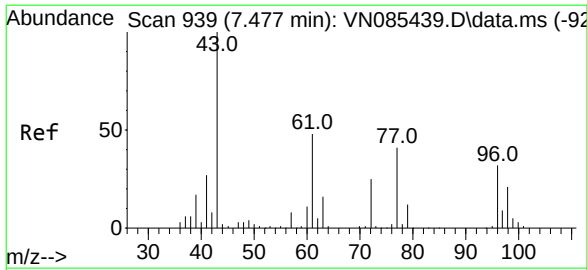
Ion Ratio Lower Upper

63 100

98 6.9 3.3 9.8

100 4.2 2.0 6.0





#25

2-Butanone

Concen: 219.497 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 367726

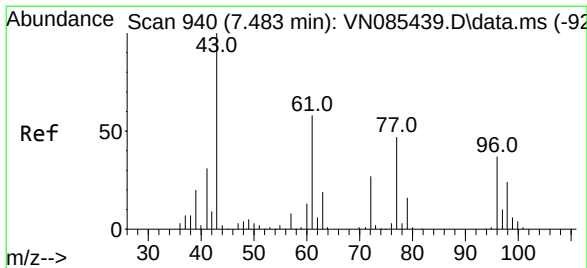
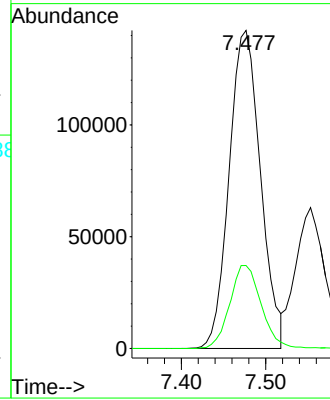
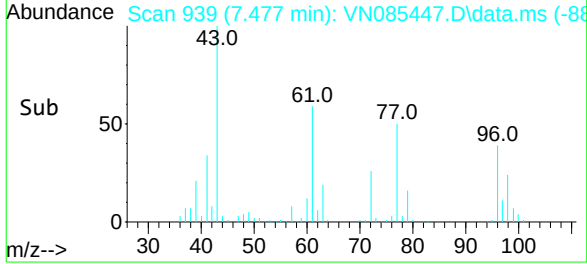
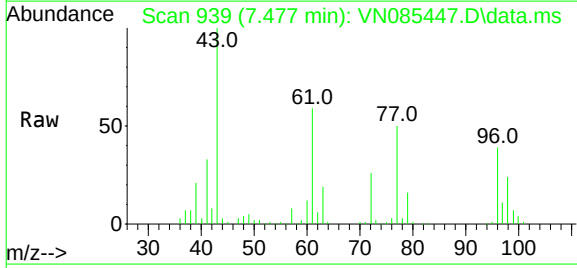
Ion Ratio Lower Upper

43 100

72 26.1 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#26

2,2-Dichloropropane

Concen: 53.956 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085447.D

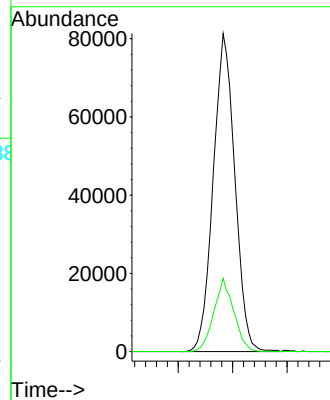
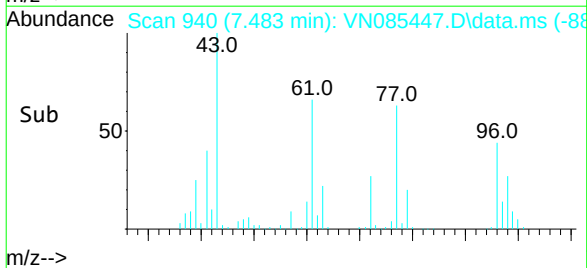
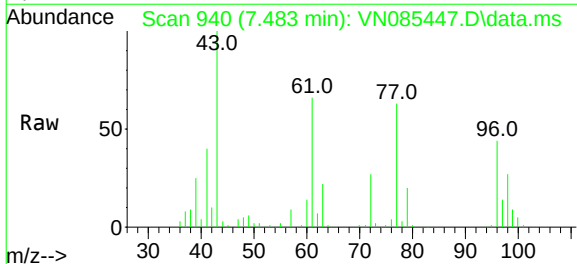
Acq: 15 Jan 2025 09:03

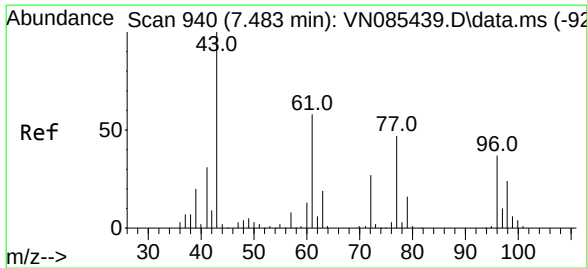
Tgt Ion: 77 Resp: 224423

Ion Ratio Lower Upper

77 100

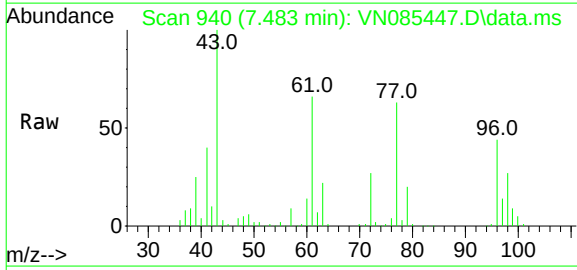
97 21.2 10.7 32.1





#27
cis-1,2-Dichloroethene
Concen: 49.893 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

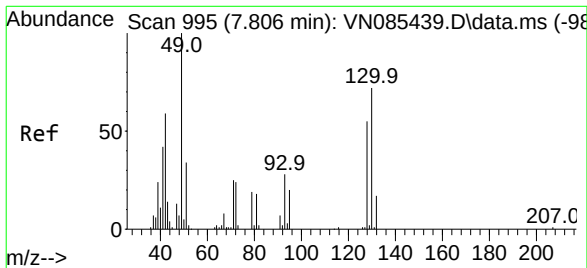
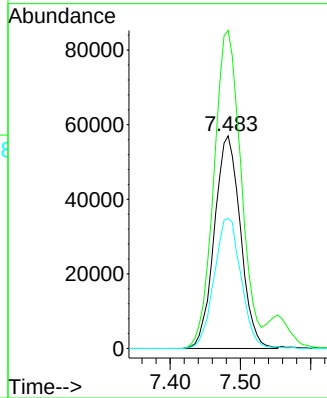
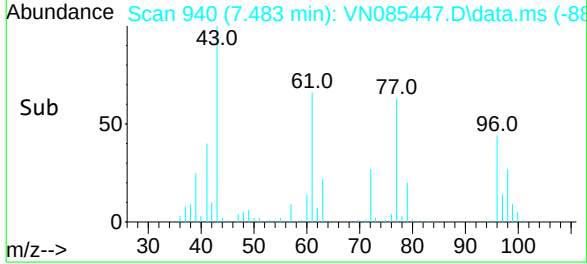
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 96 Resp: 147121
Ion Ratio Lower Upper
96 100
61 155.3 0.0 311.8
98 63.3 0.0 126.0

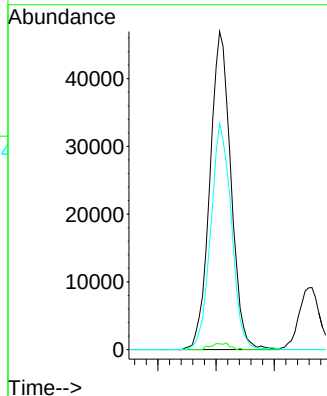
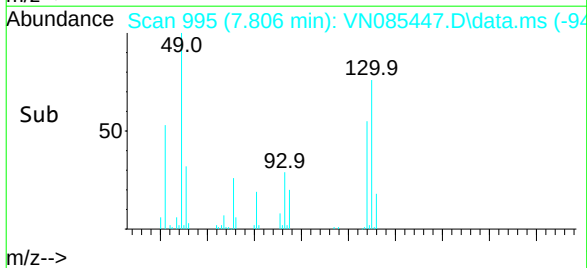
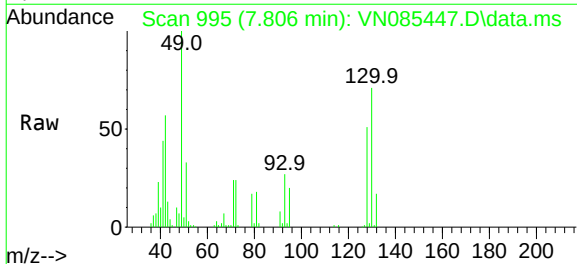
Manual Integrations
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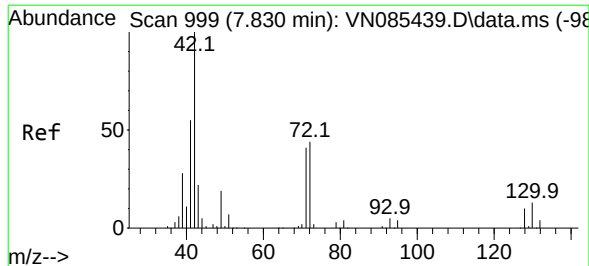
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#28
Bromochloromethane
Concen: 49.226 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

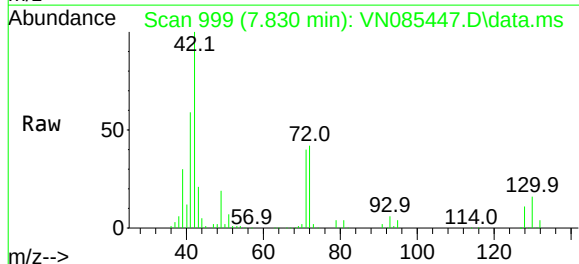
Tgt Ion: 49 Resp: 117821
Ion Ratio Lower Upper
49 100
129 1.8 0.0 4.4
130 69.6 55.0 82.4





#29
Tetrahydrofuran
Concen: 231.013 ug/l
RT: 7.830 min Scan# 999
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

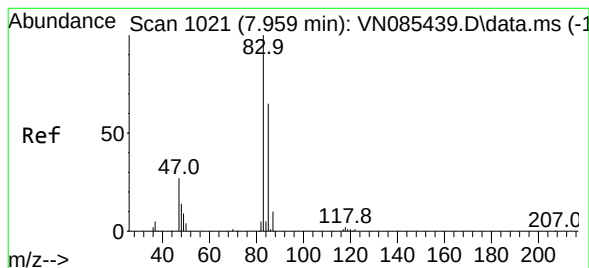
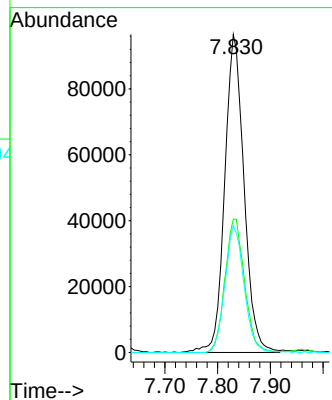
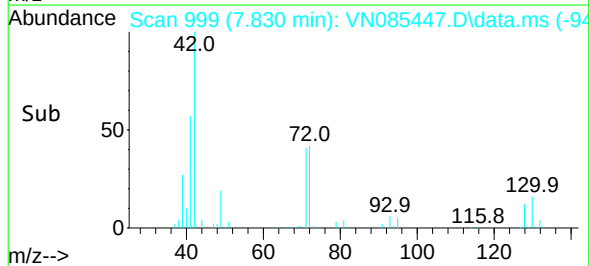
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 42 Resp: 245371
Ion Ratio Lower Upper
42 100
72 42.6 34.2 51.2
71 39.6 32.5 48.7

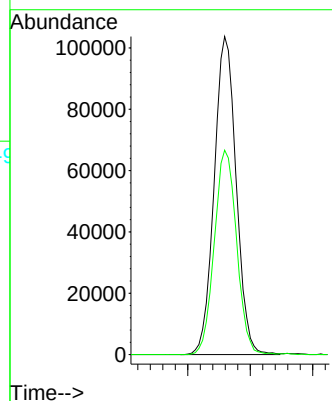
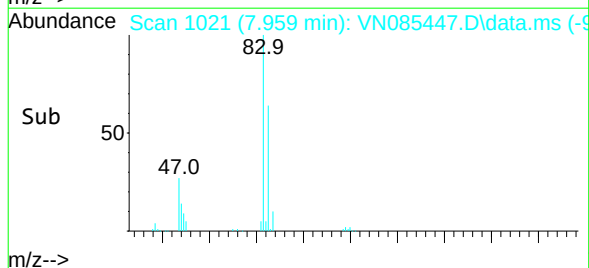
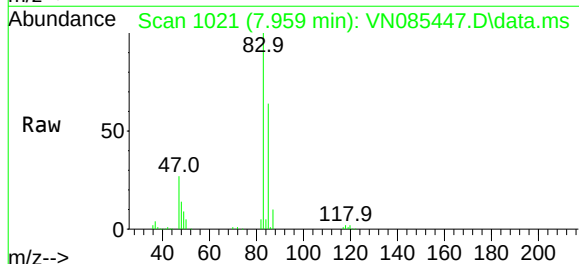
Manual Integrations
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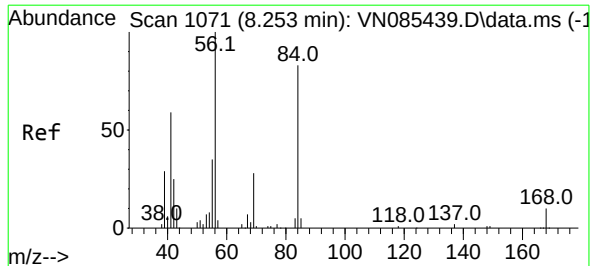
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#30
Chloroform
Concen: 47.743 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 83 Resp: 253854
Ion Ratio Lower Upper
83 100
85 64.3 51.8 77.6





#31

Cyclohexane

Concen: 45.962 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 205522

Ion Ratio Lower Upper

56 100

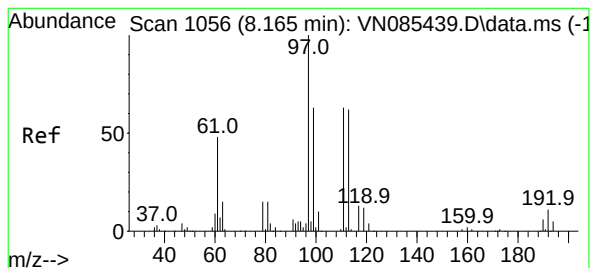
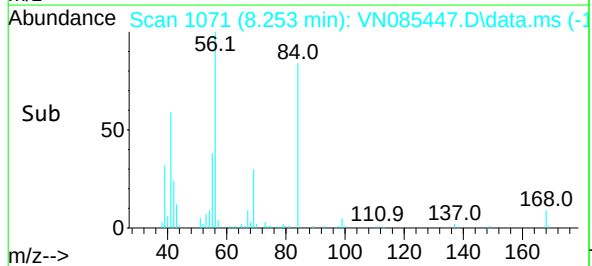
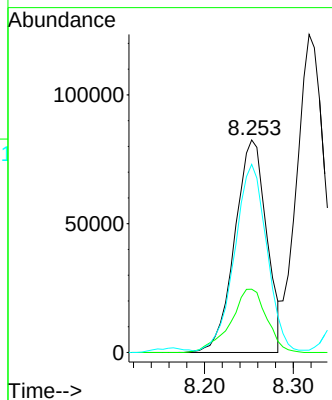
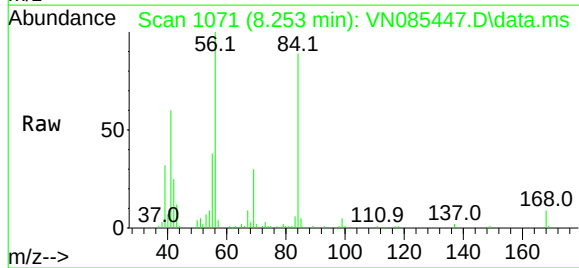
69 29.8 22.2 33.4

84 86.8 66.4 99.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025



#32

1,1,1-Trichloroethane

Concen: 48.453 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

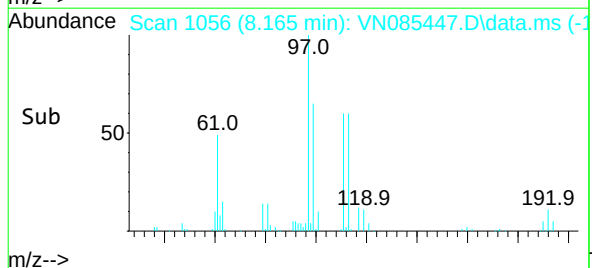
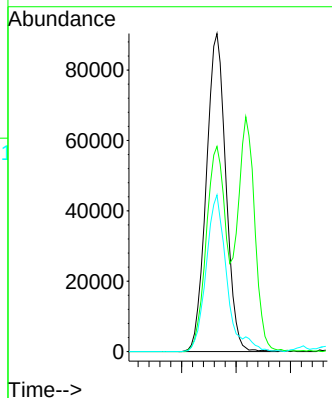
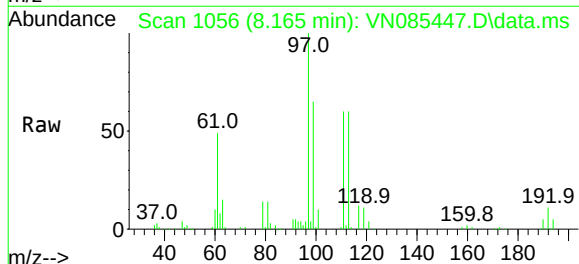
Tgt Ion: 97 Resp: 225987

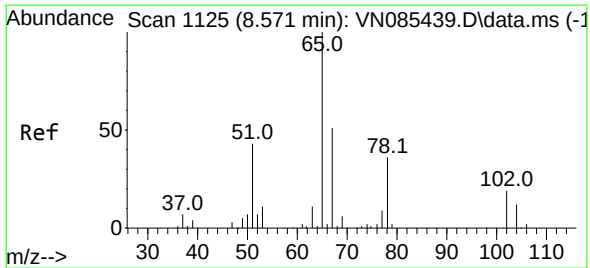
Ion Ratio Lower Upper

97 100

99 63.5 49.8 74.6

61 51.8 41.4 62.2





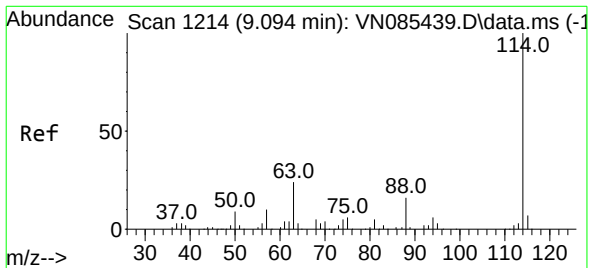
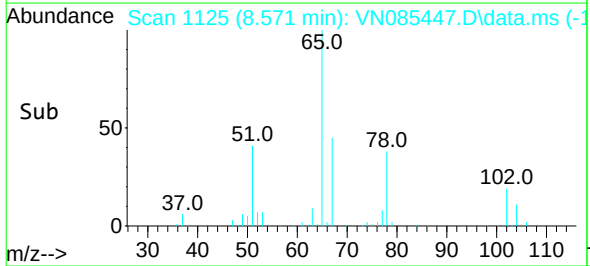
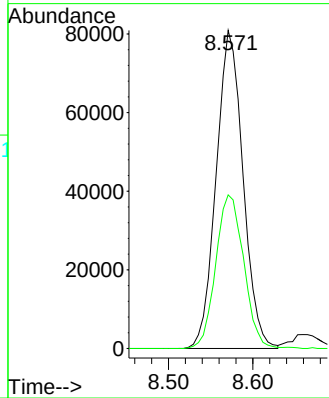
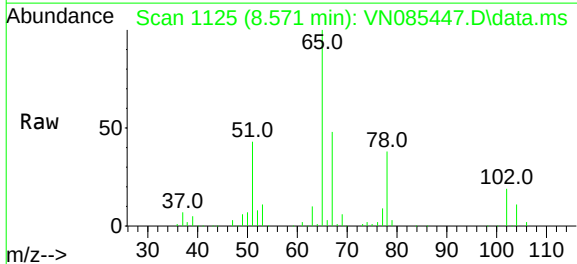
#33
1,2-Dichloroethane-d4
Concen: 50.745 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 178793
Ion Ratio Lower Upper
65 100
67 50.2 0.0 101.6

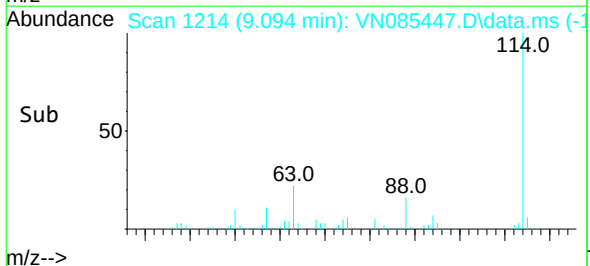
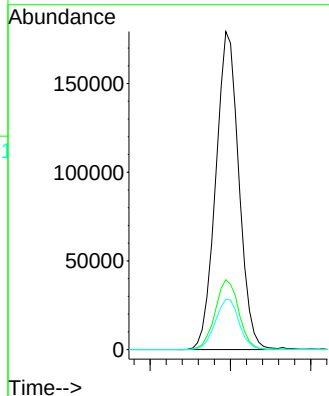
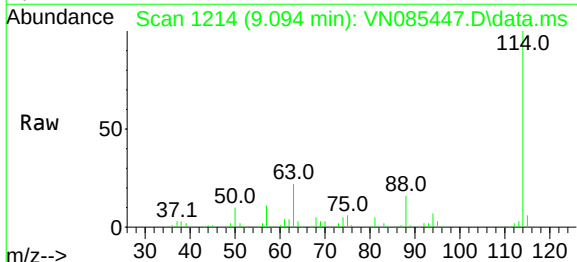
Manual Integrations
APPROVED

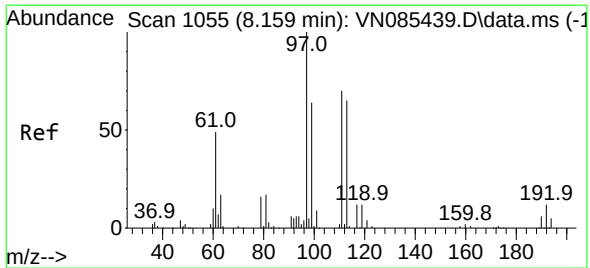
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:114 Resp: 358609
Ion Ratio Lower Upper
114 100
63 22.0 0.0 47.6
88 15.9 0.0 32.6





#35

Dibromofluoromethane

Concen: 53.211 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:113 Resp: 132381

Ion Ratio Lower Upper

113 100

111 101.2 82.7 124.1

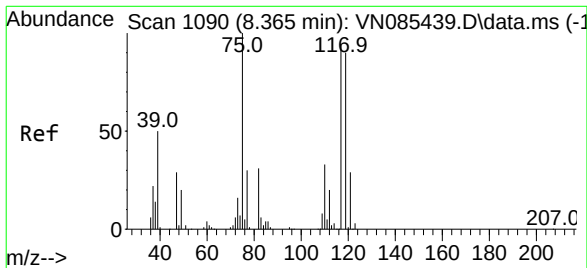
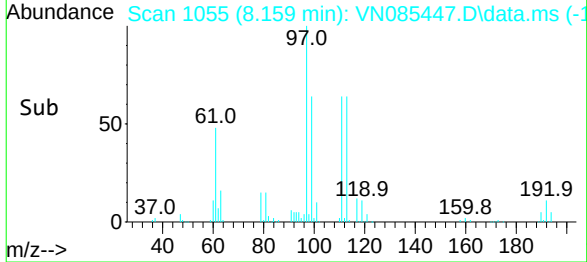
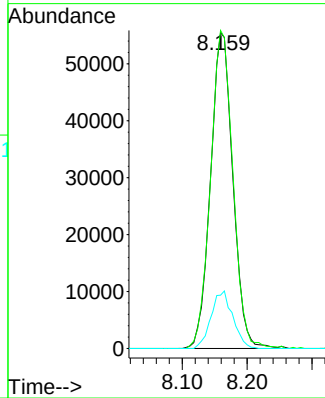
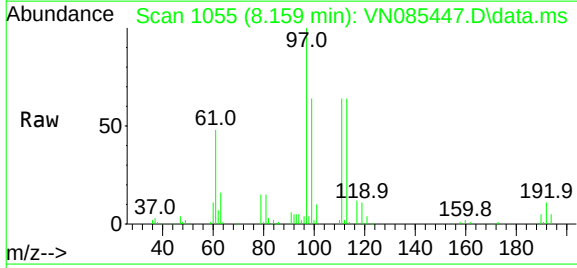
192 17.7 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#36

1,1-Dichloropropene

Concen: 51.631 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

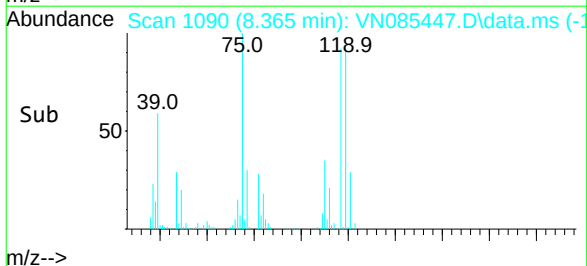
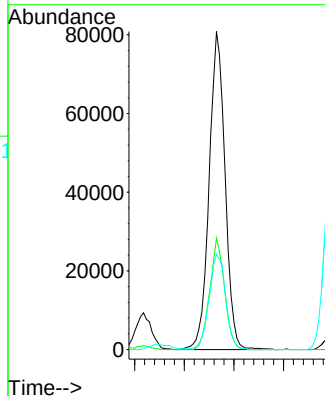
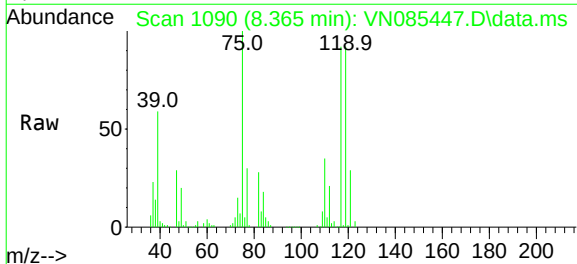
Tgt Ion: 75 Resp: 180278

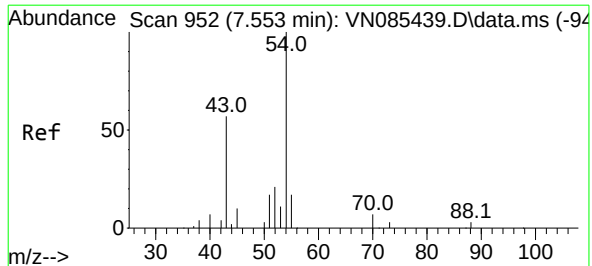
Ion Ratio Lower Upper

75 100

110 32.6 16.5 49.5

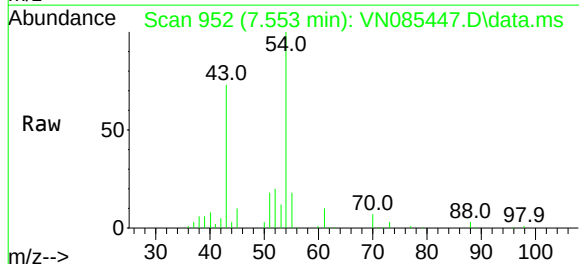
77 30.9 24.4 36.6





#37
Ethyl Acetate
Concen: 44.802 ug/l
RT: 7.553 min Scan# 952
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

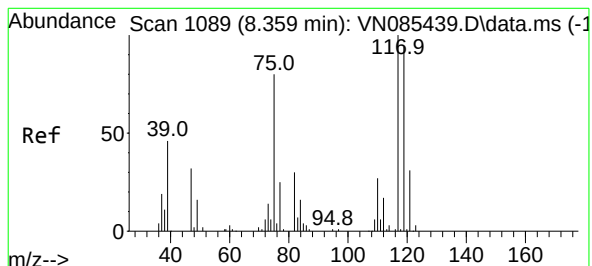
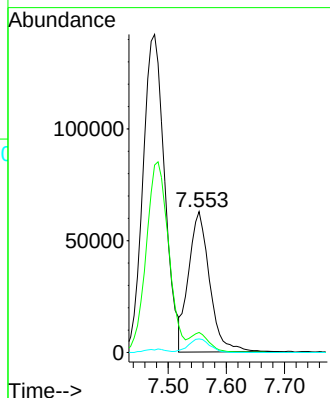
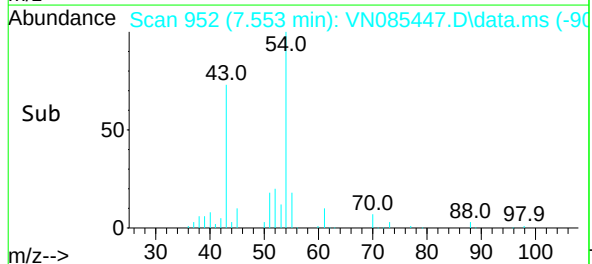
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



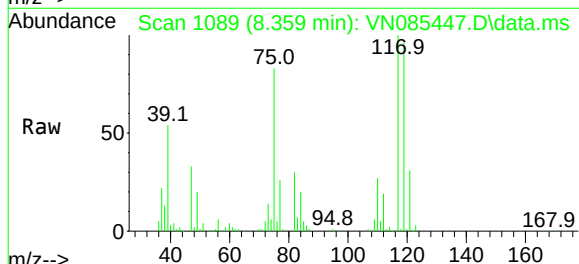
Tgt Ion: 43 Resp: 157899
Ion Ratio Lower Upper
43 100
61 11.7 10.9 16.3
70 9.8 7.5 11.3

Manual Integrations
APPROVED

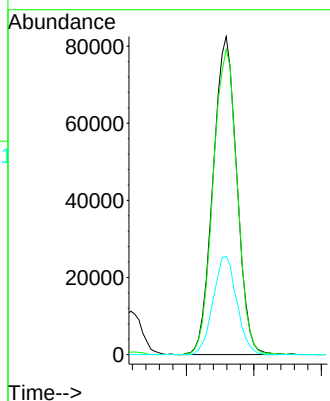
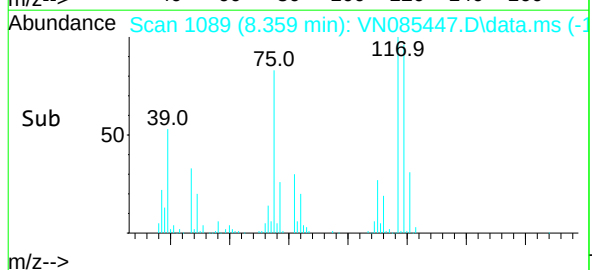
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

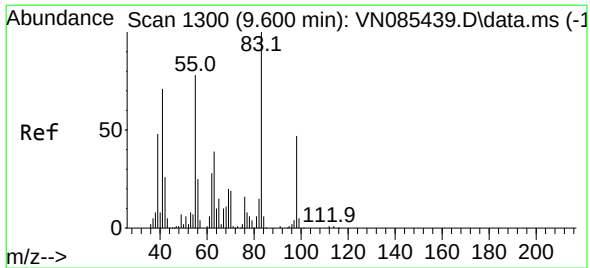


#38
Carbon Tetrachloride
Concen: 50.466 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03



Tgt Ion:117 Resp: 201730
Ion Ratio Lower Upper
117 100
119 96.0 75.4 113.2
121 30.9 24.6 37.0





#39

Methylcyclohexane

Concen: 57.732 ug/l

RT: 9.594 min Scan# 12

Delta R.T. -0.006 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 189425

Ion Ratio Lower Upper

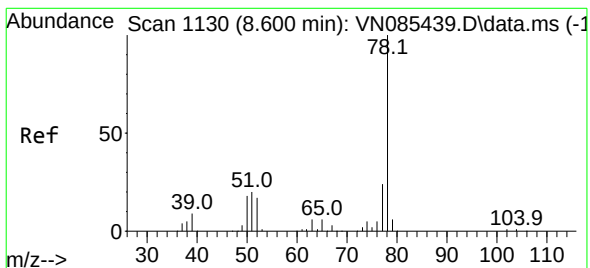
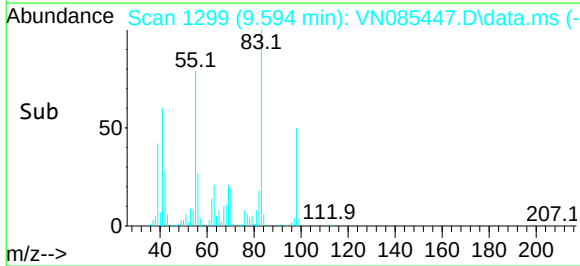
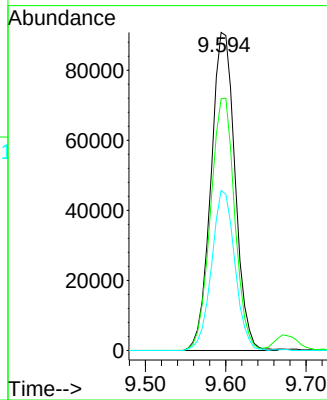
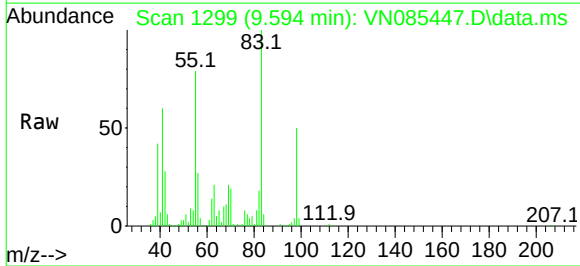
83 100

55 79.1 62.6 94.0

98 50.3 37.7 56.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#40

Benzene

Concen: 51.417 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085447.D

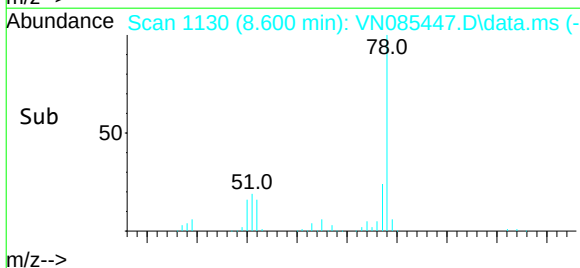
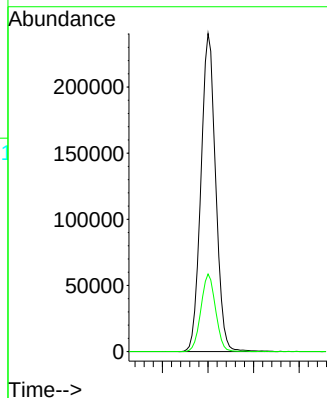
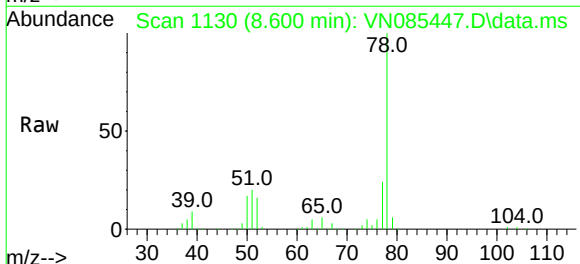
Acq: 15 Jan 2025 09:03

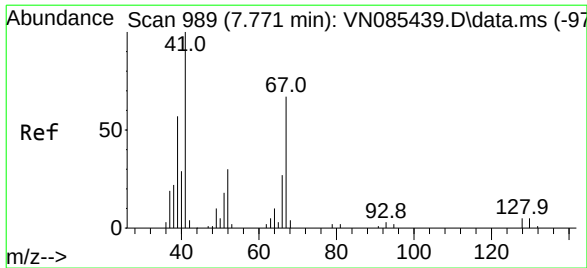
Tgt Ion: 78 Resp: 539436

Ion Ratio Lower Upper

78 100

77 24.4 19.0 28.6





#41

Methacrylonitrile

Concen: 49.387 ug/l

RT: 7.771 min Scan# 989

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 41 Resp: 90556

Ion Ratio Lower Upper

41 100

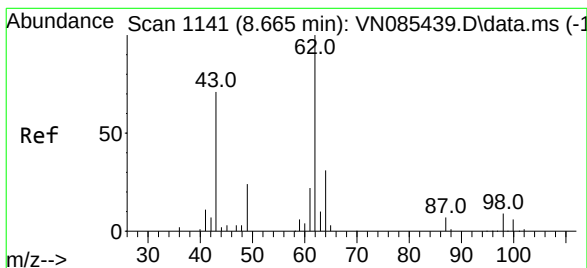
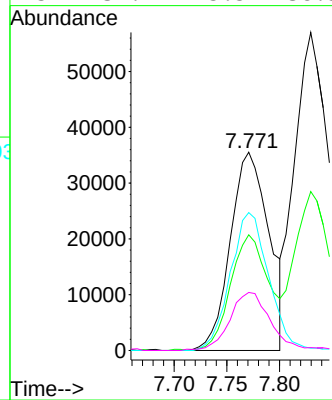
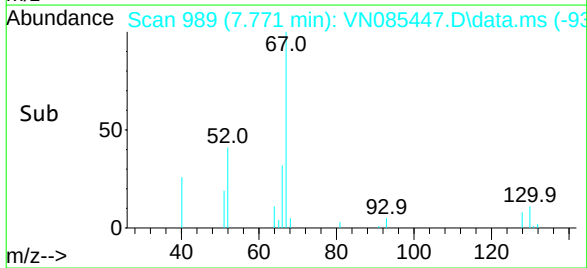
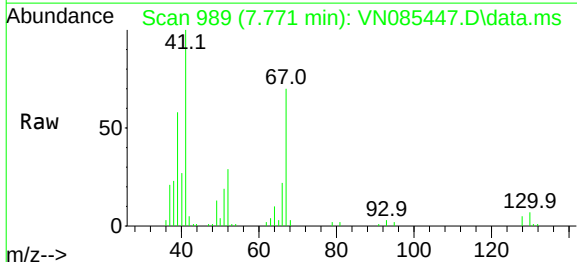
39 57.8 46.0 69.0

67 69.2 57.4 86.2

52 31.4 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#42

1,2-Dichloroethane

Concen: 49.881 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN085447.D

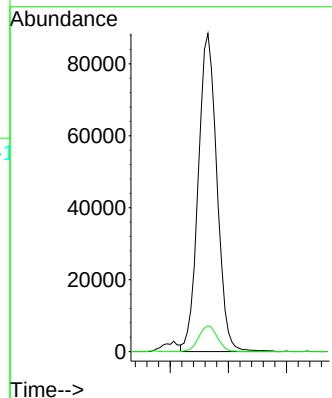
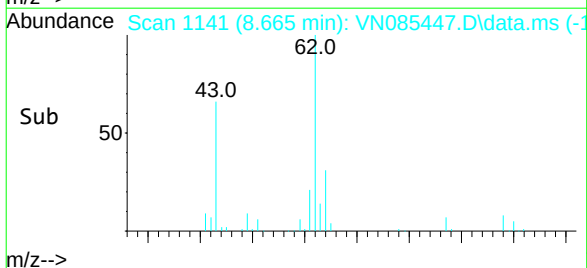
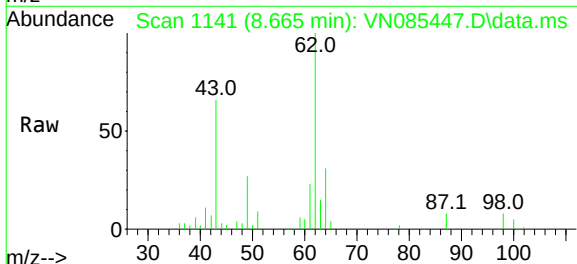
Acq: 15 Jan 2025 09:03

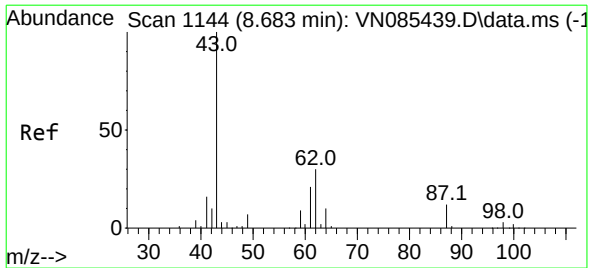
Tgt Ion: 62 Resp: 197097

Ion Ratio Lower Upper

62 100

98 8.1 0.0 17.0





#43

Isopropyl Acetate

Concen: 47.153 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 266284

Ion Ratio Lower Upper

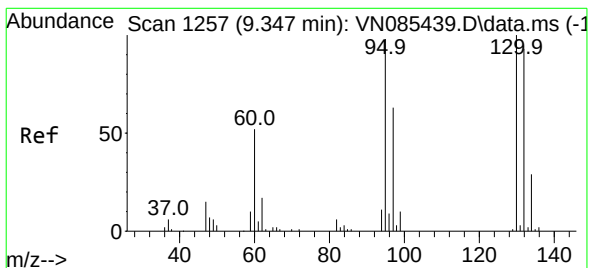
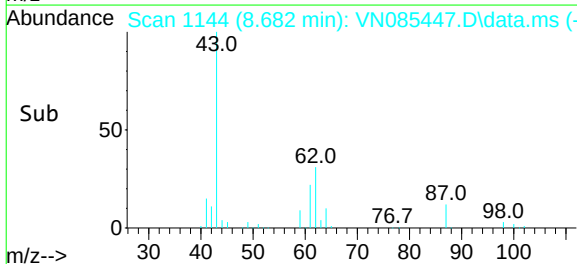
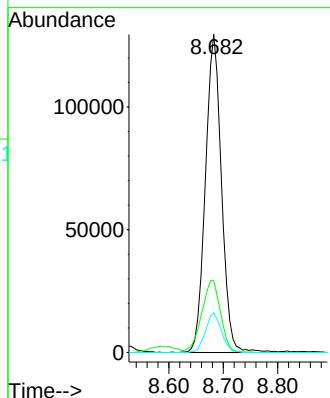
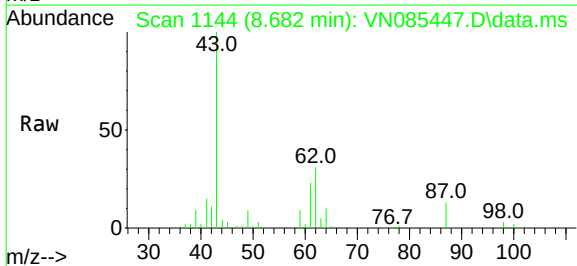
43 100

61 26.6 20.7 31.1

87 12.3 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#44

Trichloroethene

Concen: 50.700 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.000 min

Lab File: VN085447.D

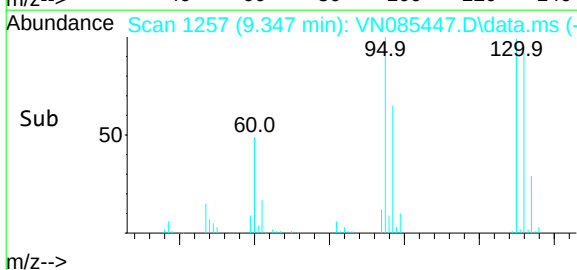
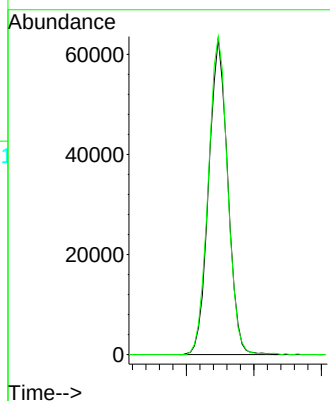
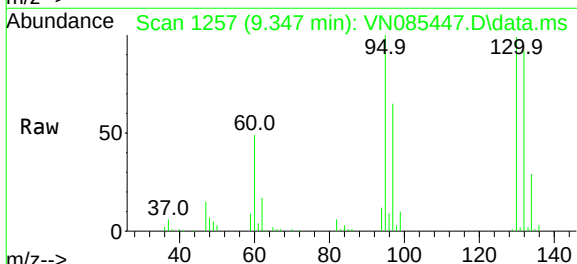
Acq: 15 Jan 2025 09:03

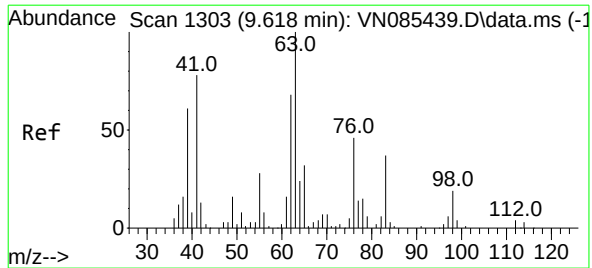
Tgt Ion:130 Resp: 123817

Ion Ratio Lower Upper

130 100

95 100.6 0.0 195.8





#45

1,2-Dichloropropane

Concen: 50.468 ug/l

RT: 9.612 min Scan# 13

Delta R.T. -0.006 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 135244

Ion Ratio Lower Upper

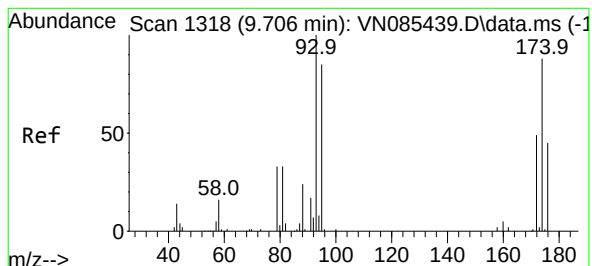
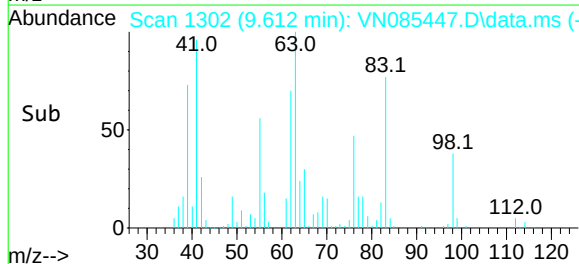
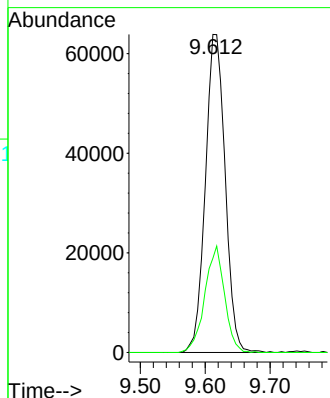
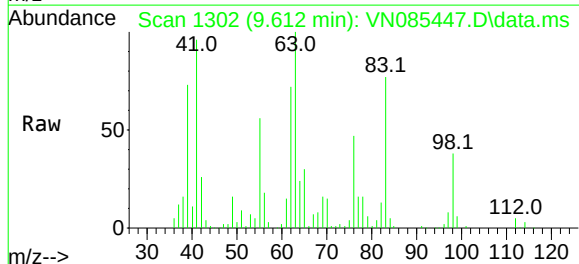
63 100

65 29.6 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025



#46

Dibromomethane

Concen: 48.873 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

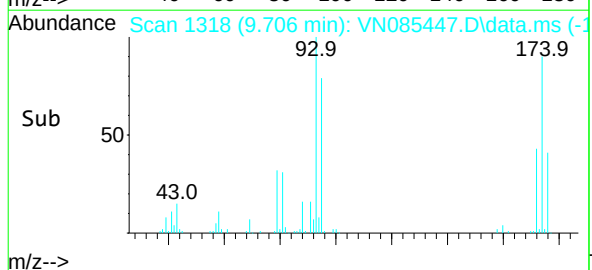
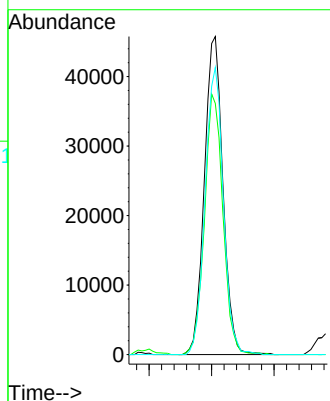
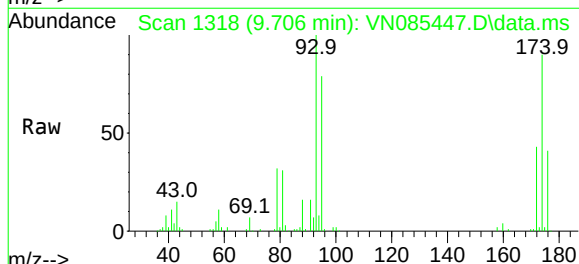
Tgt Ion: 93 Resp: 94501

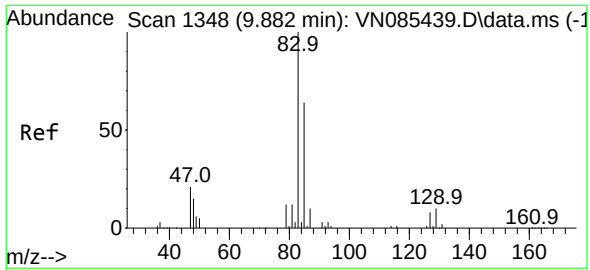
Ion Ratio Lower Upper

93 100

95 81.3 64.7 97.1

174 88.9 69.0 103.4





#47

Bromodichloromethane

Concen: 51.671 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 203552

Ion Ratio Lower Upper

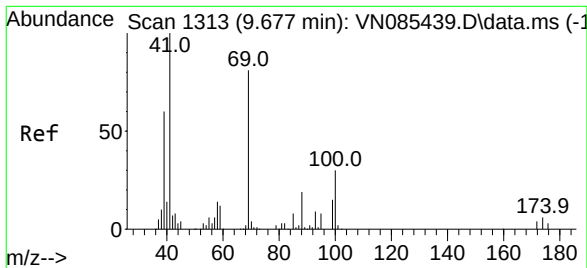
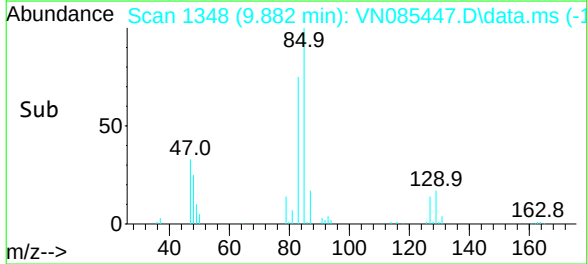
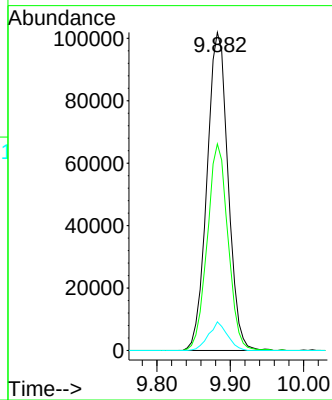
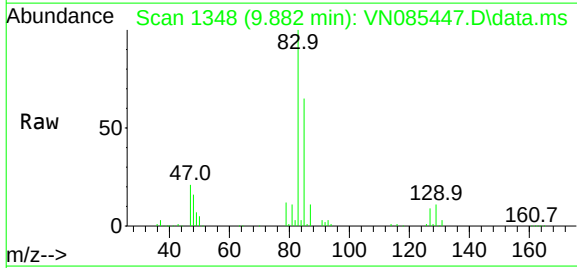
83 100

85 64.9 51.2 76.8

127 9.0 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#48

Methyl methacrylate

Concen: 50.945 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

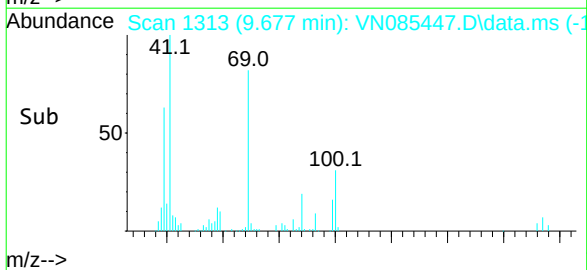
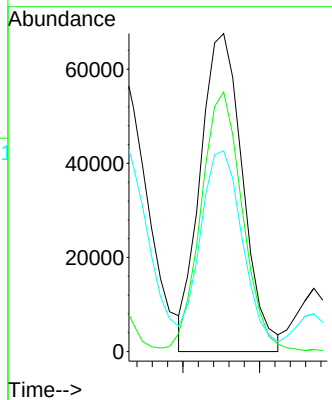
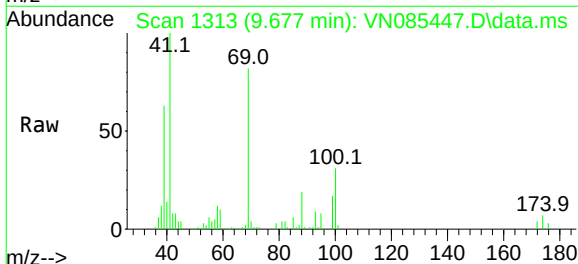
Tgt Ion: 41 Resp: 129471

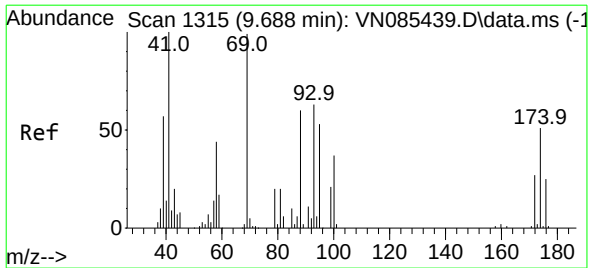
Ion Ratio Lower Upper

41 100

69 80.8 64.7 97.1

39 63.9 49.0 73.6





#49

1,4-Dioxane

Concen: 873.742 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VN085447.D

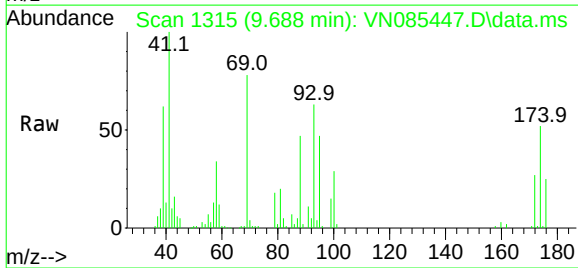
Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050



Tgt Ion: 88 Resp: 37393

Ion Ratio Lower Upper

88 100

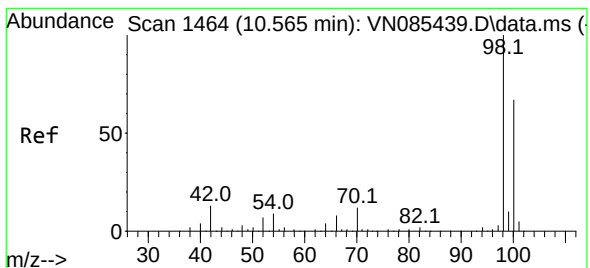
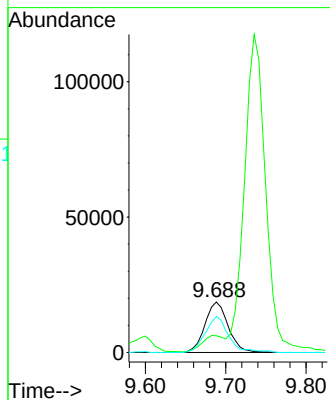
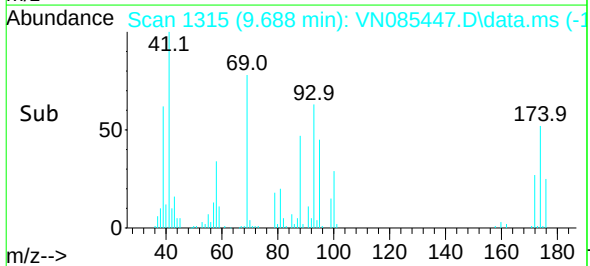
43 32.7 26.6 39.8

58 72.0 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025



#50

Toluene-d8

Concen: 55.032 ug/l

RT: 10.559 min Scan# 1463

Delta R.T. -0.006 min

Lab File: VN085447.D

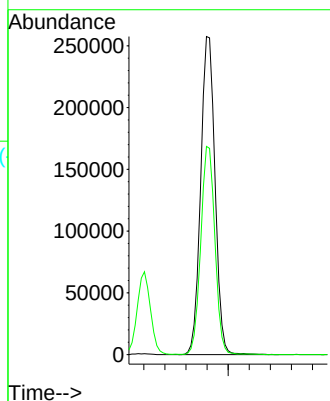
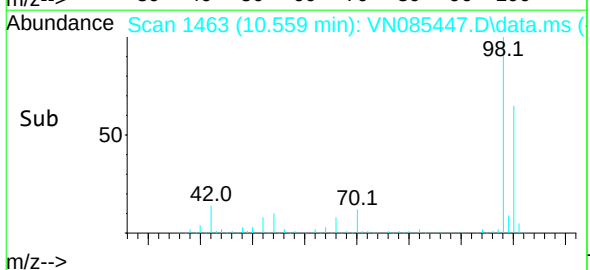
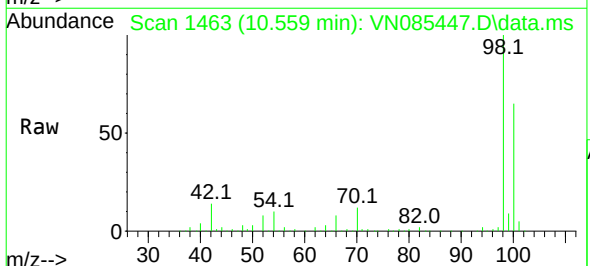
Acq: 15 Jan 2025 09:03

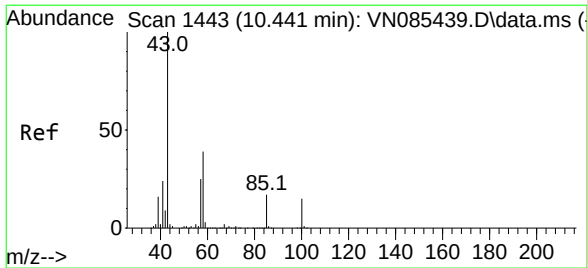
Tgt Ion: 98 Resp: 486444

Ion Ratio Lower Upper

98 100

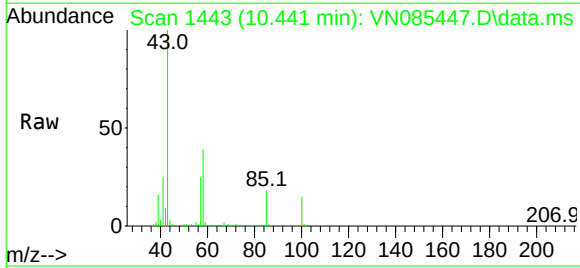
100 64.7 52.2 78.4





#51
4-Methyl-2-Pentanone
Concen: 240.885 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

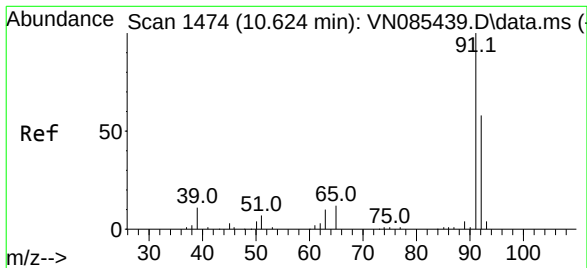
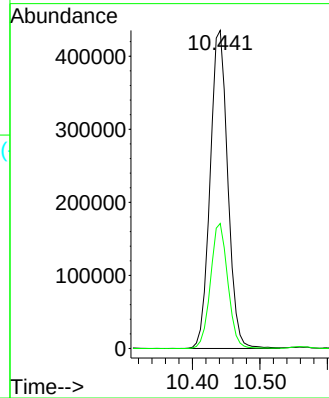
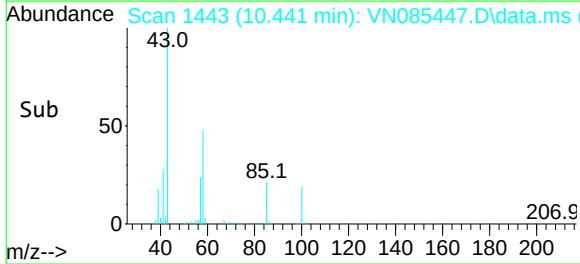
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 43 Resp: 789380
Ion Ratio Lower Upper
43 100
58 38.6 30.5 45.7

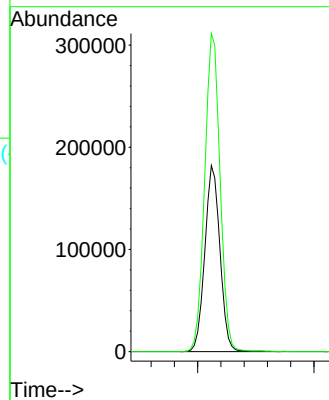
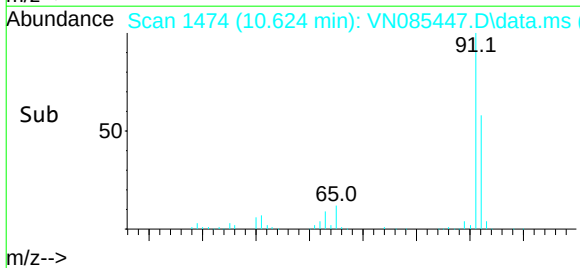
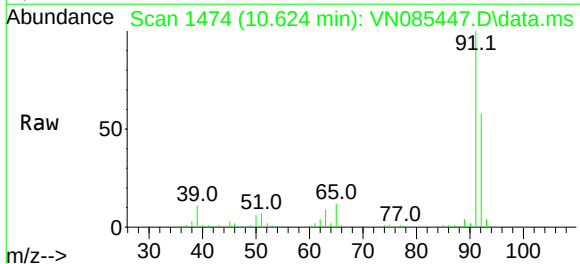
Manual Integrations
APPROVED

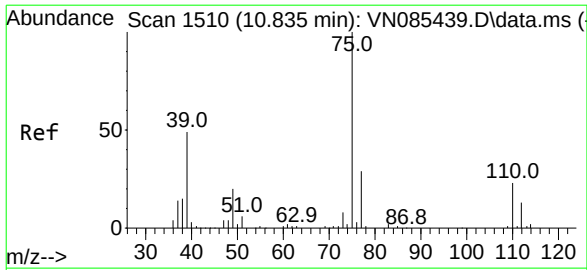
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#52
Toluene
Concen: 54.029 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

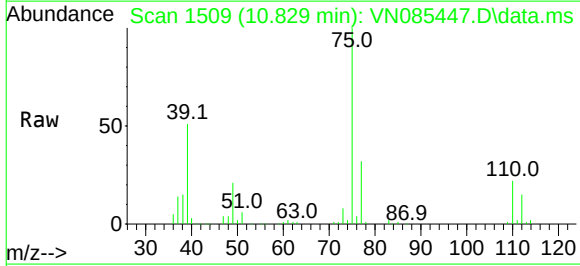
Tgt Ion: 92 Resp: 328434
Ion Ratio Lower Upper
92 100
91 174.2 139.2 208.8





#53
t-1,3-Dichloropropene
Concen: 53.447 ug/l
RT: 10.829 min Scan# 1510
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

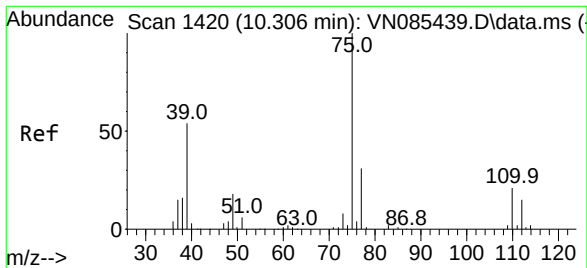
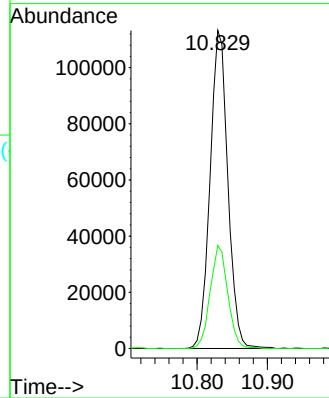
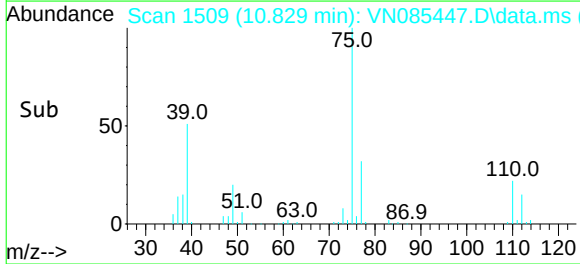
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 75 Resp: 198974
Ion Ratio Lower Upper
75 100
77 32.4 23.5 35.3

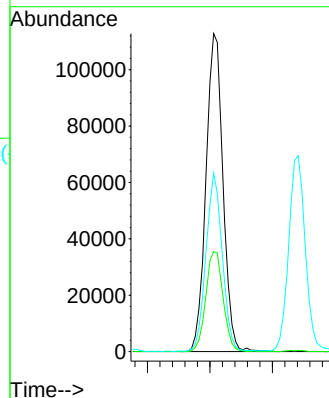
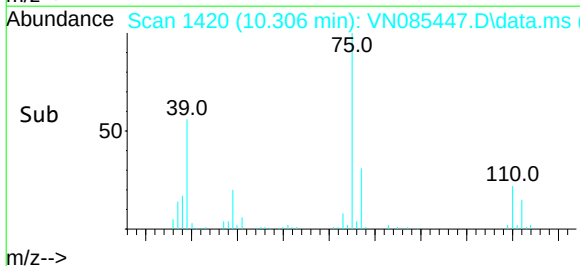
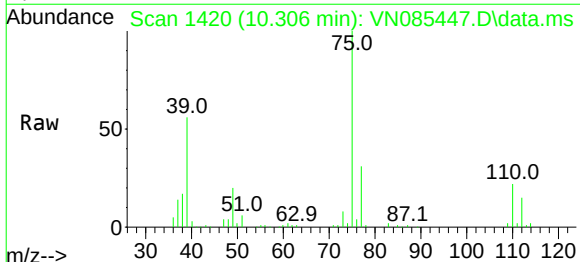
Manual Integrations
APPROVED

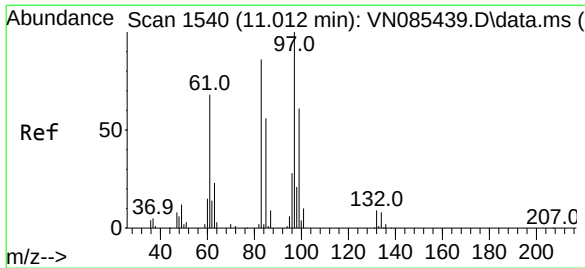
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#54
cis-1,3-Dichloropropene
Concen: 53.582 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 75 Resp: 213072
Ion Ratio Lower Upper
75 100
77 31.4 25.0 37.4
39 56.0 43.1 64.7





#55

1,1,2-Trichloroethane

Concen: 50.215 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 97 Resp: 120803

Ion Ratio Lower Upper

97 100

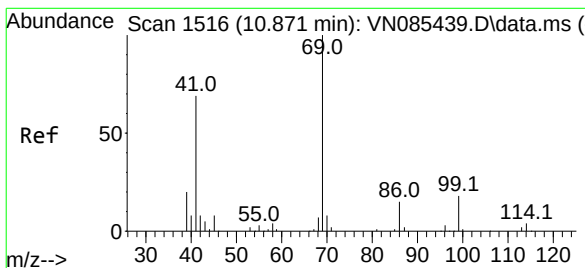
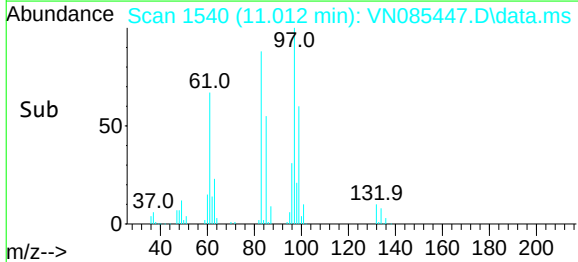
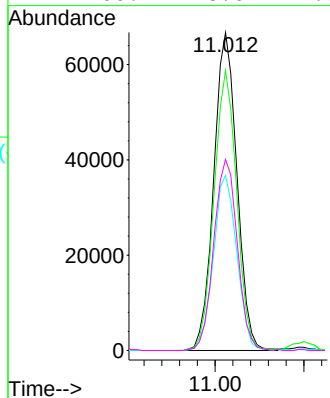
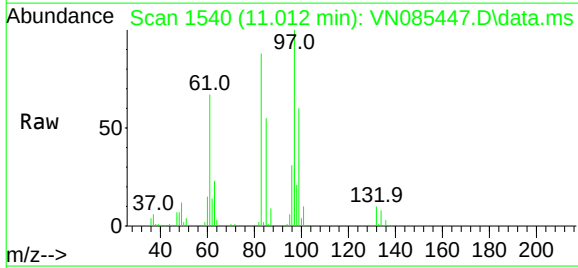
83 88.0 69.0 103.6

85 55.1 44.6 66.8

99 60.1 48.6 72.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#56

Ethyl methacrylate

Concen: 45.714 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

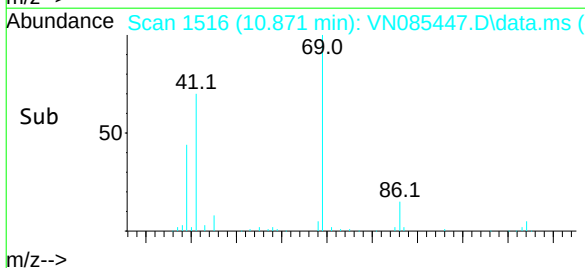
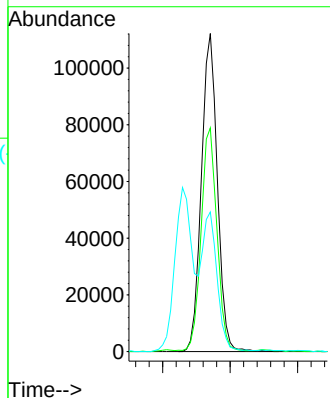
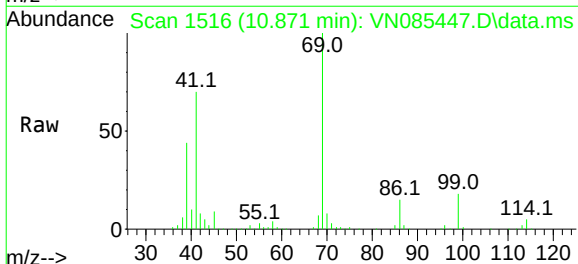
Tgt Ion: 69 Resp: 184561

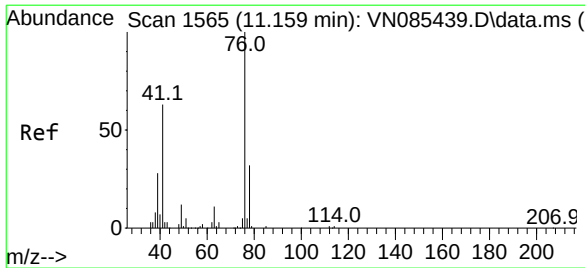
Ion Ratio Lower Upper

69 100

41 68.8 54.6 82.0

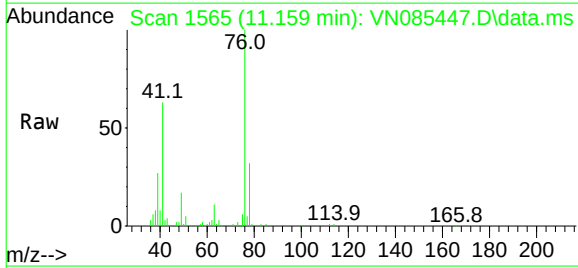
39 39.6 32.4 48.6





1,3-Dichloropropane
Concen: 50.662 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

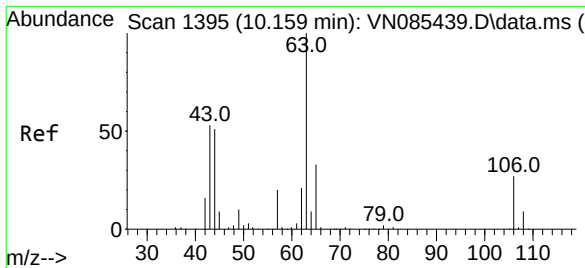
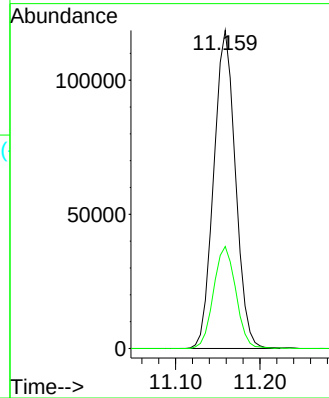
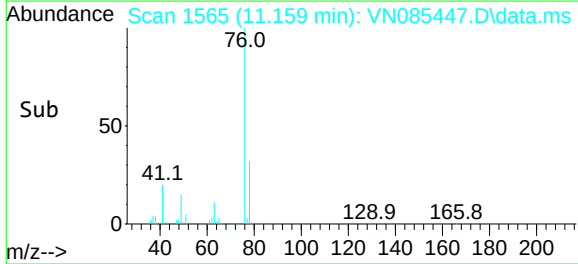
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 76 Resp: 211921
Ion Ratio Lower Upper
76 100
78 32.9 25.6 38.4

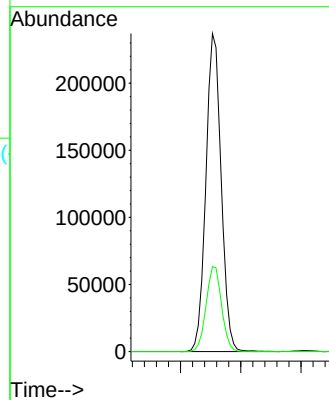
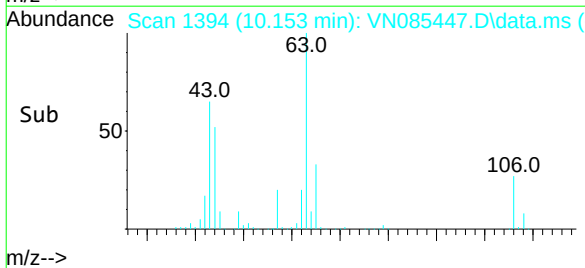
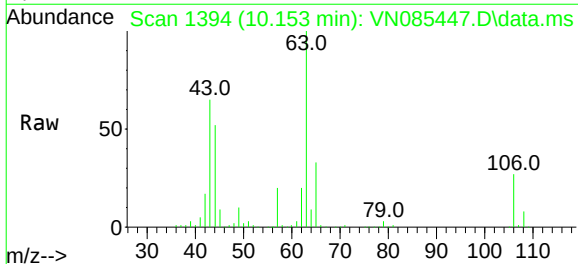
Manual Integrations
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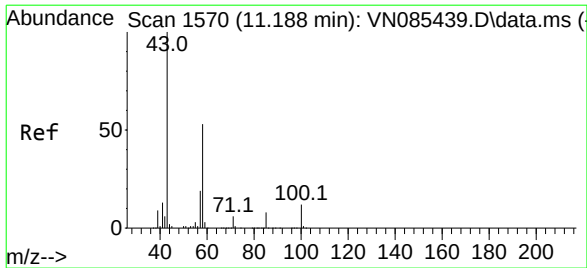
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



2-Chloroethyl Vinyl ether
Concen: 272.966 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 63 Resp: 416723
Ion Ratio Lower Upper
63 100
106 27.1 21.6 32.4





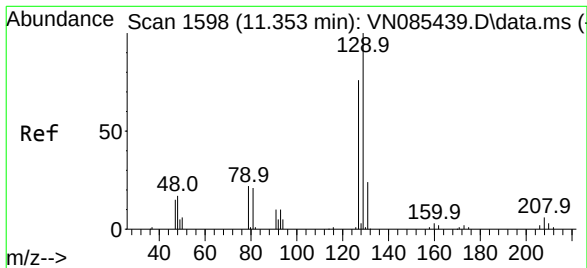
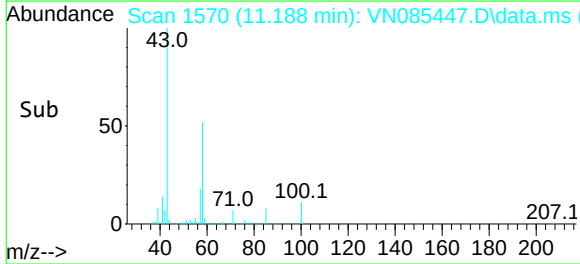
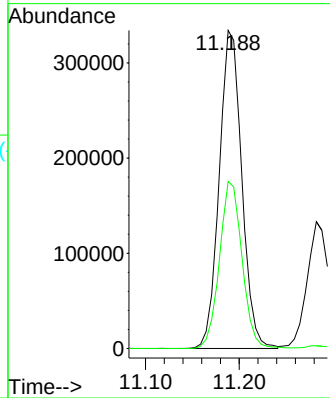
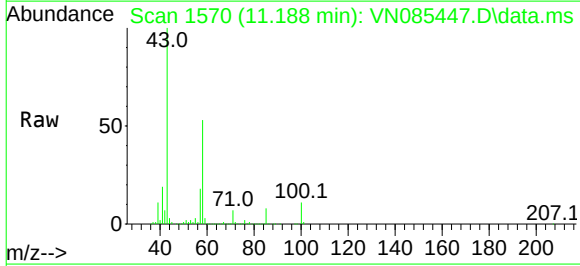
#59
2-Hexanone
Concen: 242.307 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 558711
Ion Ratio Lower Upper
43 100
58 52.6 26.2 78.6

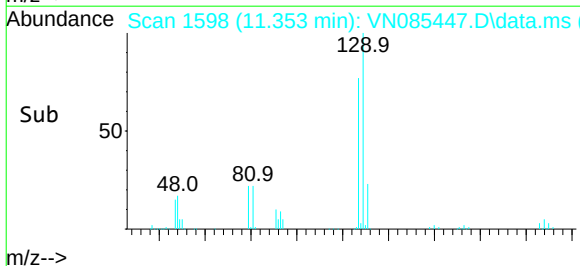
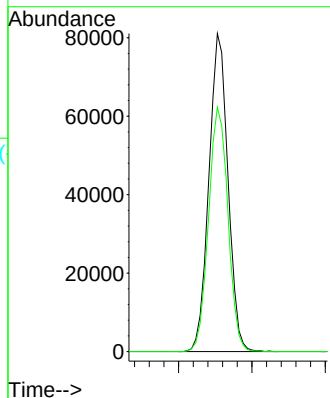
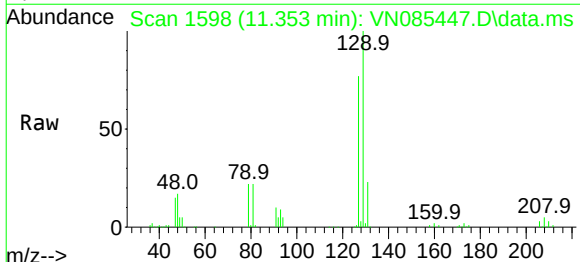
Manual Integrations
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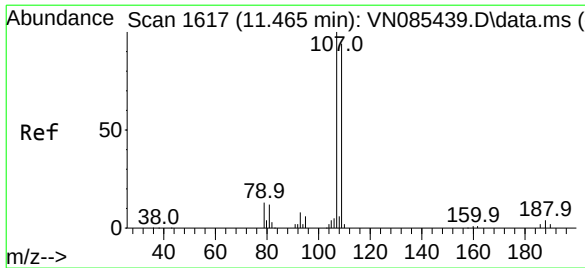
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#60
Dibromochloromethane
Concen: 50.392 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:129 Resp: 146358
Ion Ratio Lower Upper
129 100
127 78.3 38.6 115.8





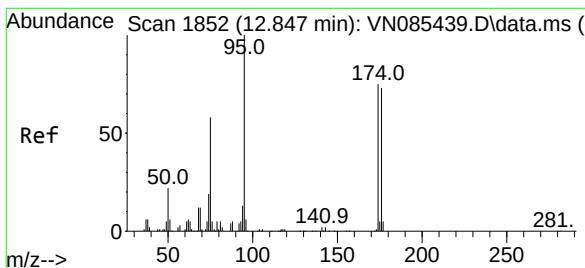
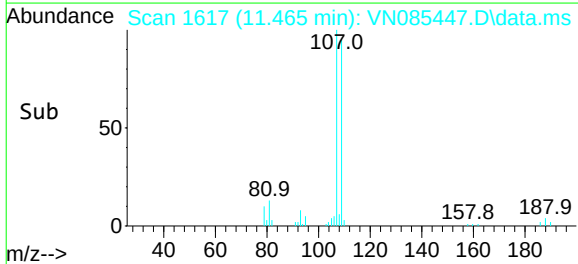
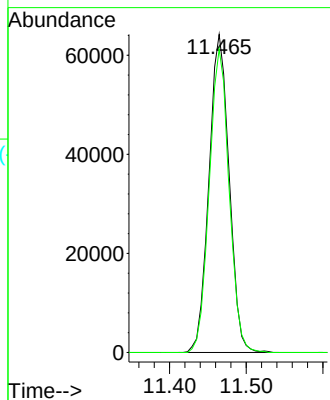
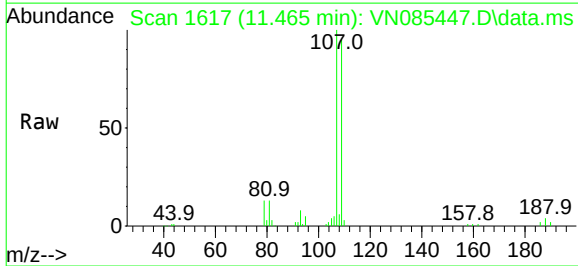
#61
1,2-Dibromoethane
Concen: 49.039 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 107 Resp: 117431
Ion Ratio Lower Upper
107 100
109 93.8 75.9 113.9

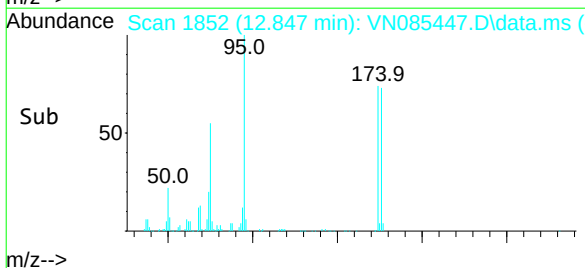
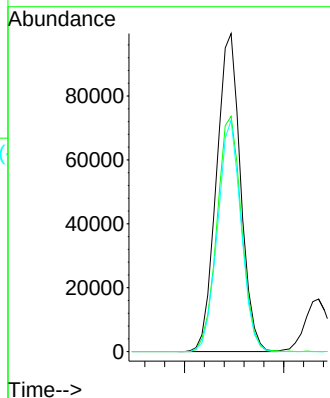
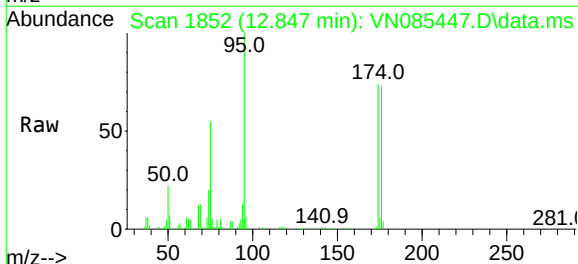
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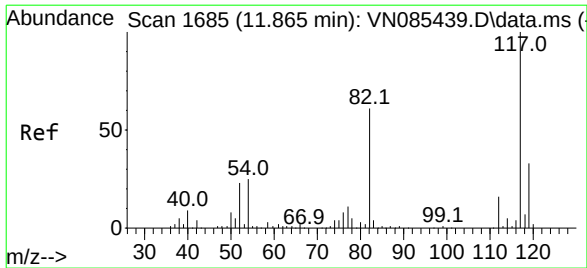
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#62
4-Bromofluorobenzene
Concen: 55.673 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

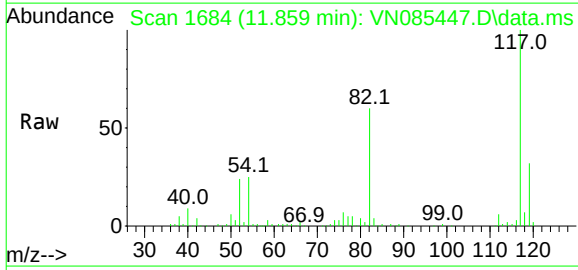
Tgt Ion: 95 Resp: 168340
Ion Ratio Lower Upper
95 100
174 75.1 0.0 145.0
176 70.8 0.0 142.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.859 min Scan# 1685
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

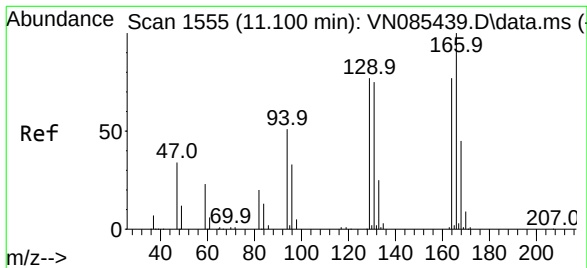
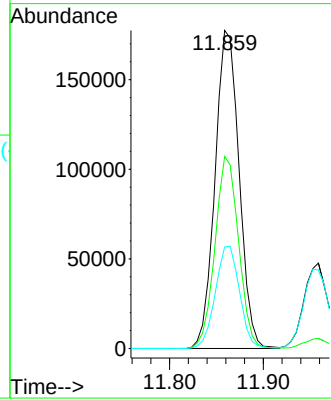
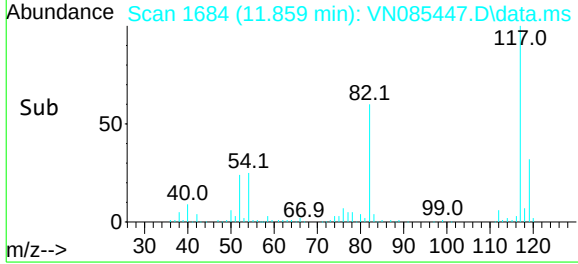
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:117 Resp: 316952
Ion Ratio Lower Upper
117 100
82 60.4 48.6 72.8
119 31.9 26.6 39.8

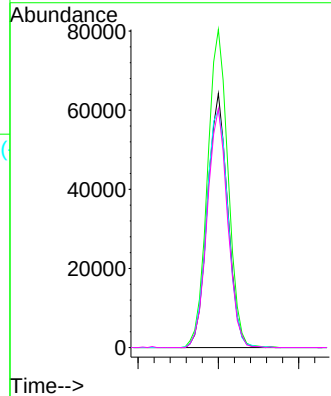
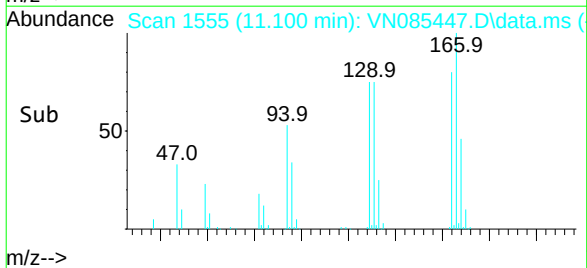
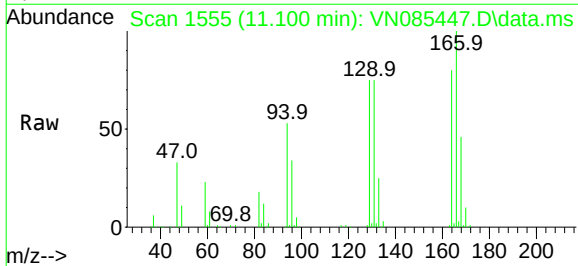
Manual Integrations
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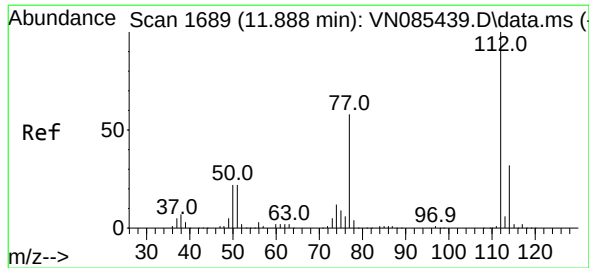
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#64
Tetrachloroethene
Concen: 52.107 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:164 Resp: 112592
Ion Ratio Lower Upper
164 100
166 125.2 103.4 155.2
129 93.6 79.2 118.8
131 94.0 77.1 115.7





#65

Chlorobenzene

Concen: 50.257 ug/l

RT: 11.888 min Scan# 16

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:112 Resp: 348954

Ion Ratio Lower Upper

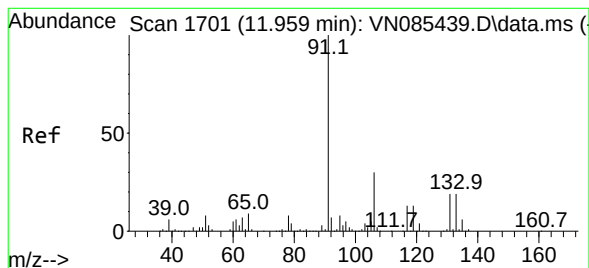
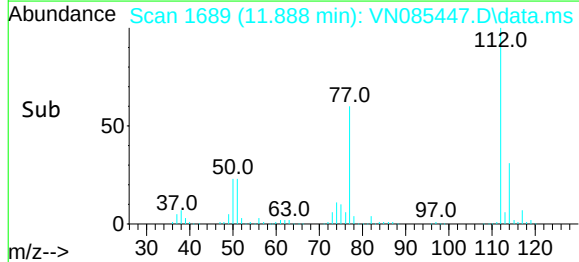
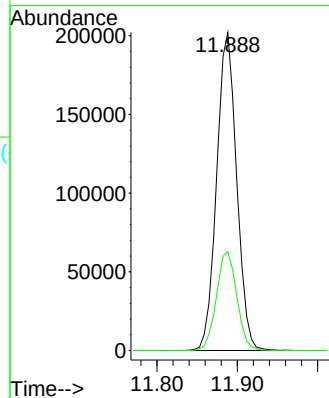
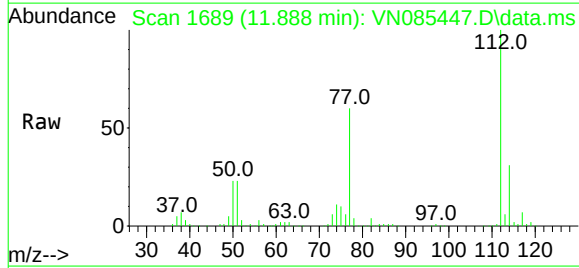
112 100

114 31.1 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 49.494 ug/l

RT: 11.953 min Scan# 1700

Delta R.T. -0.006 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

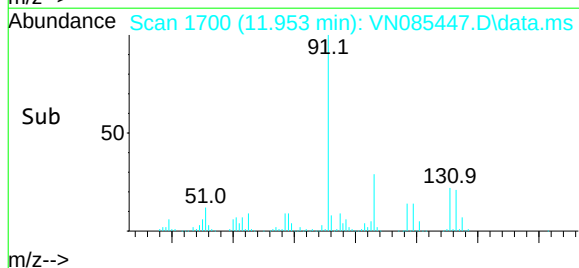
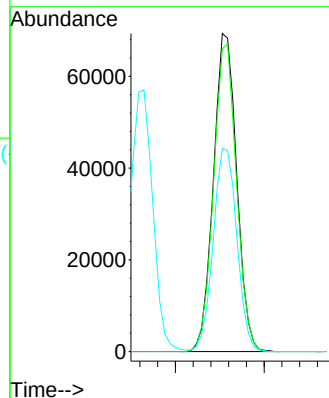
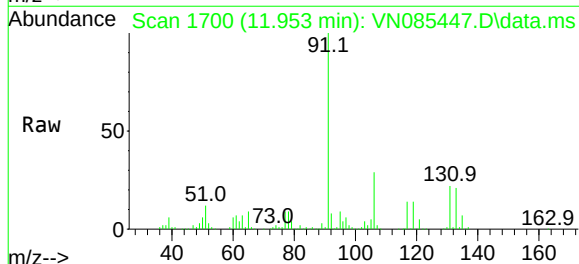
Tgt Ion:131 Resp: 126127

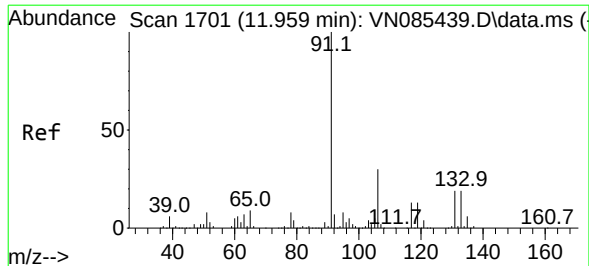
Ion Ratio Lower Upper

131 100

133 95.6 47.4 142.3

119 65.1 33.1 99.5





#67

Ethyl Benzene

Concen: 55.122 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 623373

Ion Ratio Lower Upper

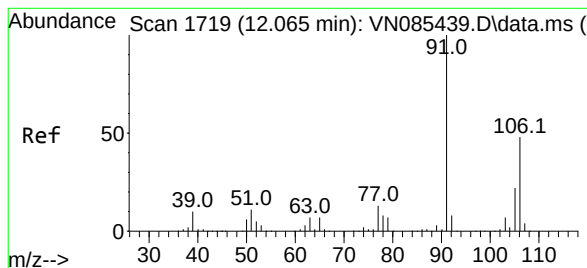
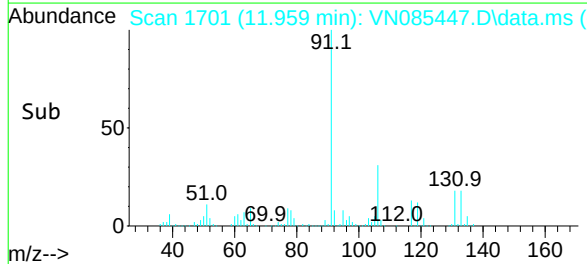
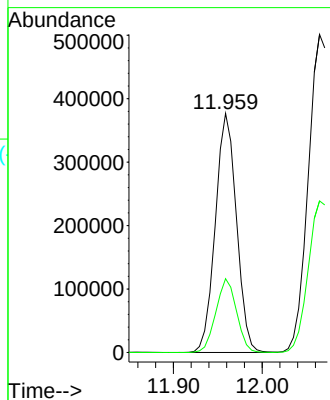
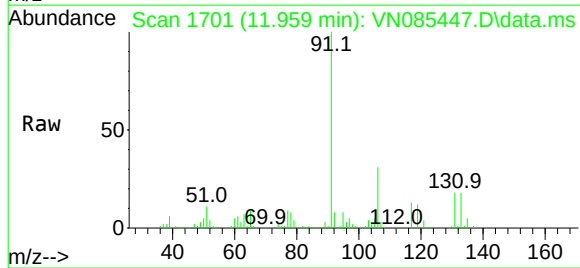
91 100

106 30.9 23.8 35.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#68

m/p-Xylenes

Concen: 114.570 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. -0.000 min

Lab File: VN085447.D

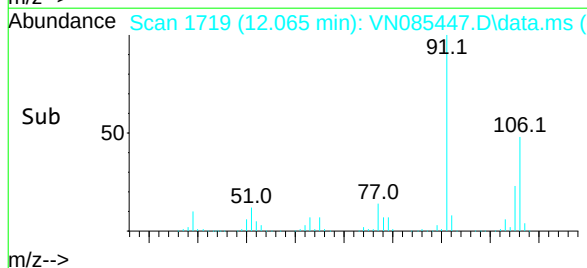
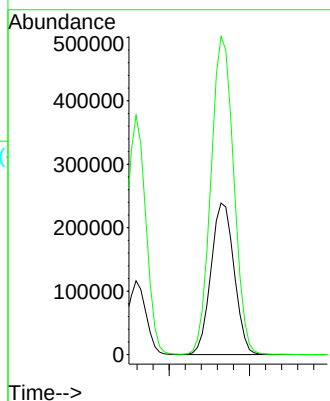
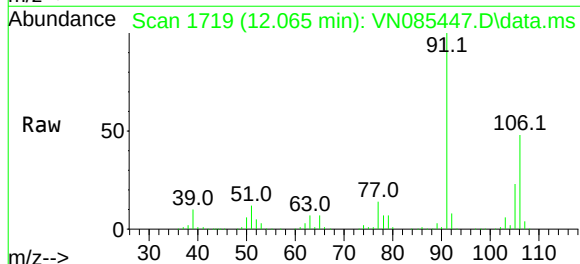
Acq: 15 Jan 2025 09:03

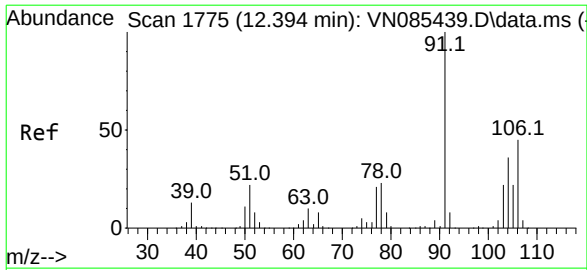
Tgt Ion:106 Resp: 478857

Ion Ratio Lower Upper

106 100

91 207.2 167.7 251.5





#69

o-Xylene

Concen: 55.481 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:106 Resp: 221609

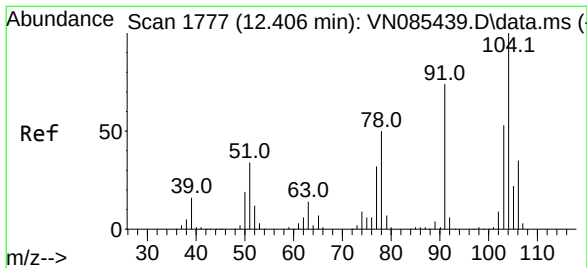
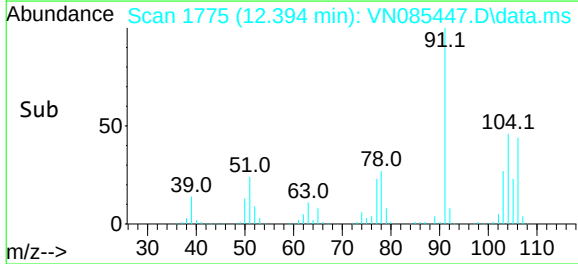
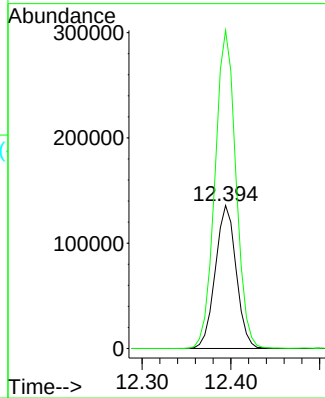
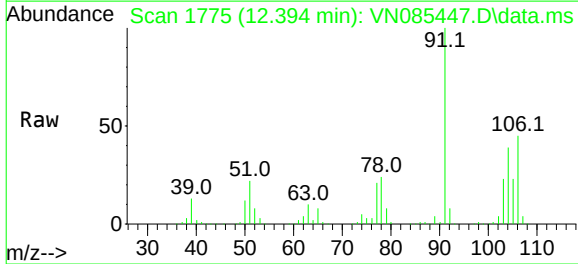
Ion Ratio Lower Upper

106 100

91 223.4 110.4 331.2

Manual Integrations

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Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#70

Styrene

Concen: 57.933 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

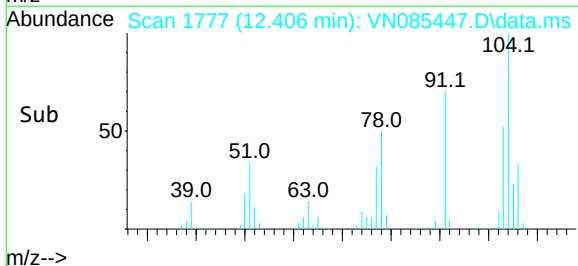
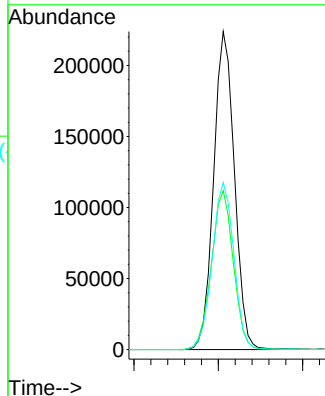
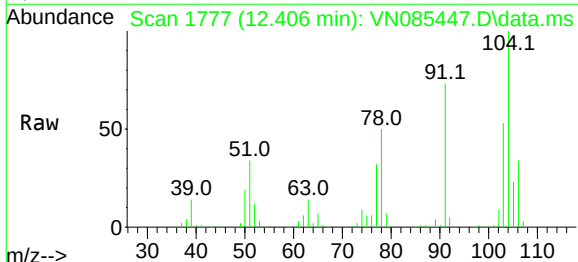
Tgt Ion:104 Resp: 382963

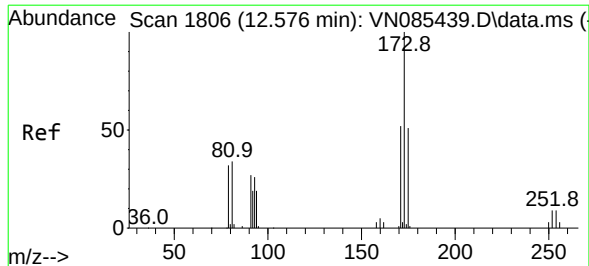
Ion Ratio Lower Upper

104 100

78 52.8 42.5 63.7

103 55.0 43.8 65.8





#71

Bromoform

Concen: 52.493 ug/l

RT: 12.570 min Scan# 1806

Delta R.T. -0.006 min

Lab File: VN085447.D

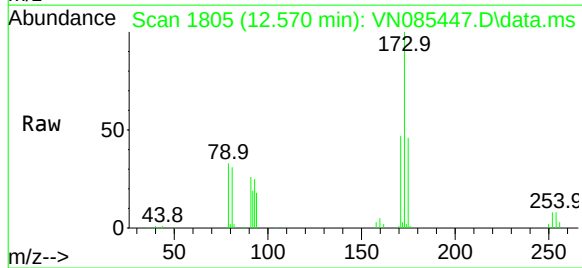
Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

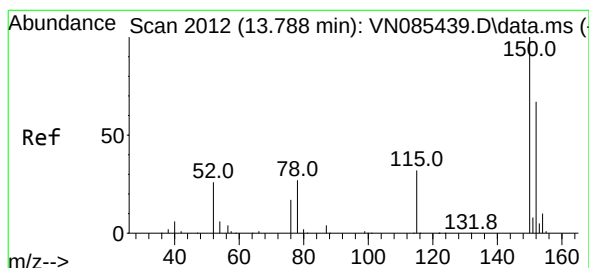
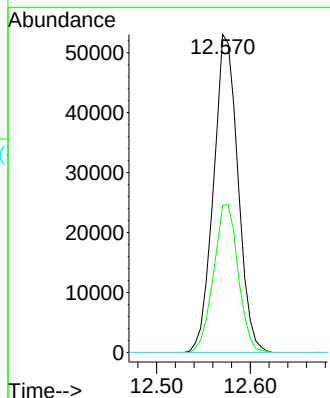
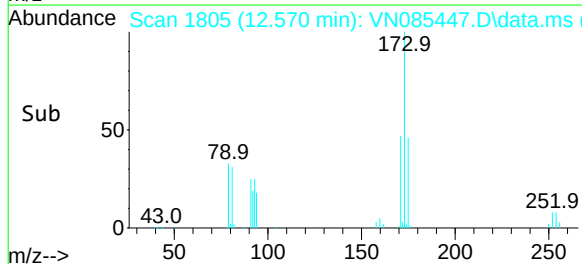


Tgt Ion:	173	Resp:	95715
Ion Ratio	Lower	Upper	
173	100		
175	47.0	24.4	73.2
254	0.0	0.0	0.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

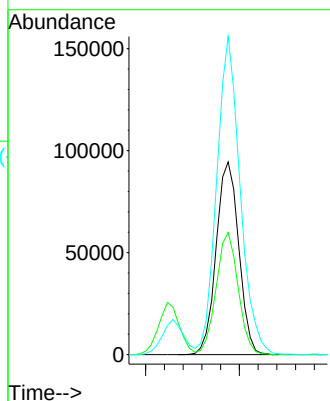
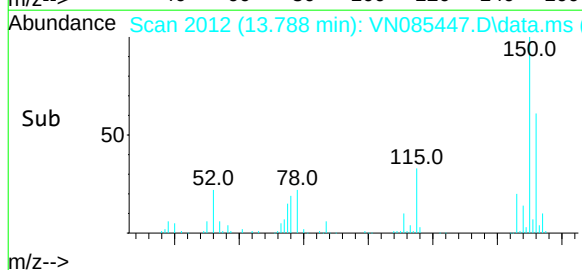
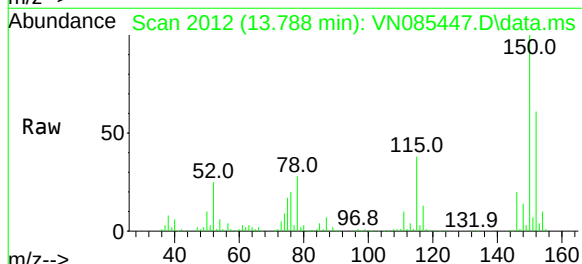
RT: 13.788 min Scan# 2012

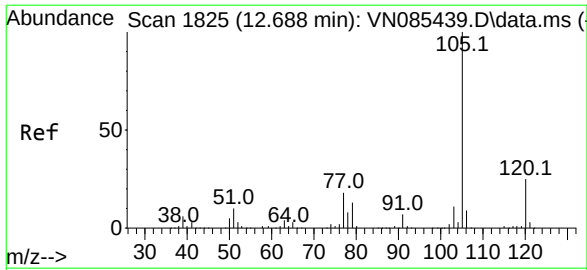
Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Tgt Ion:	152	Resp:	158347
Ion Ratio	Lower	Upper	
152	100		
115	61.8	31.1	93.3
150	171.2	0.0	343.6





#73

Isopropylbenzene

Concen: 54.261 ug/l

RT: 12.688 min Scan# 1825

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 105 Resp: 579887

Ion Ratio Lower Upper

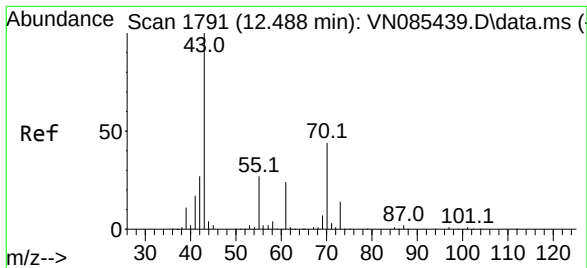
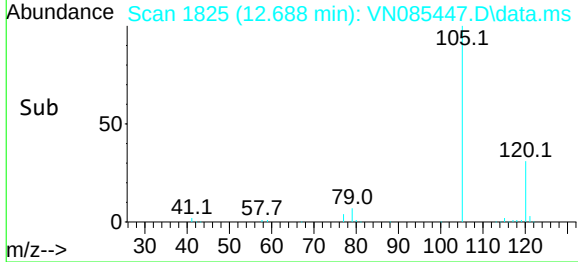
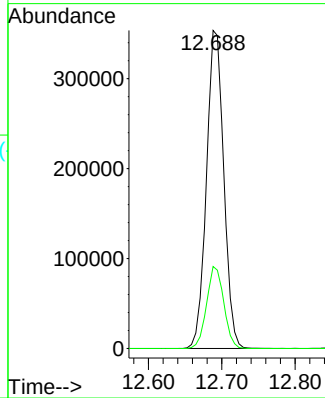
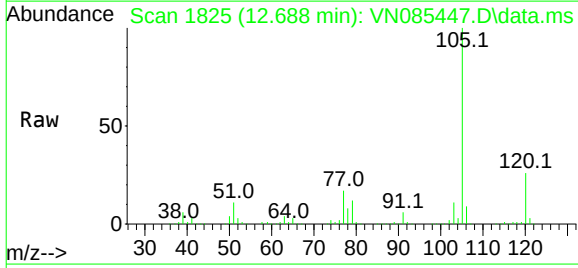
105 100

120 25.6 12.8 38.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#74

N-ethyl acetate

Concen: 47.841 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Tgt Ion: 43 Resp: 229808

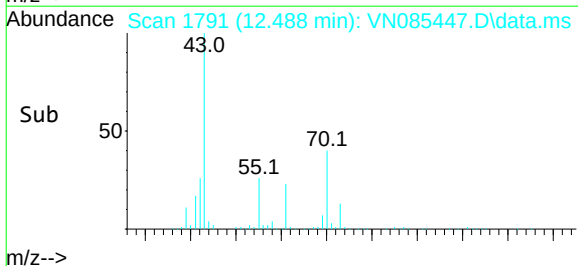
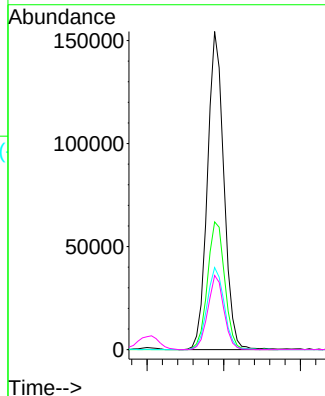
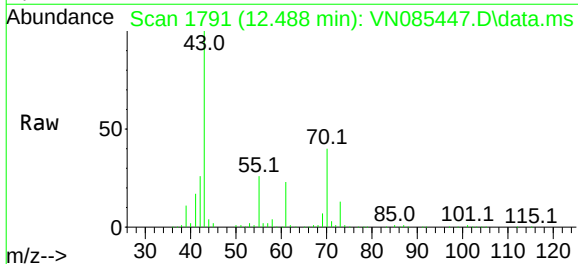
Ion Ratio Lower Upper

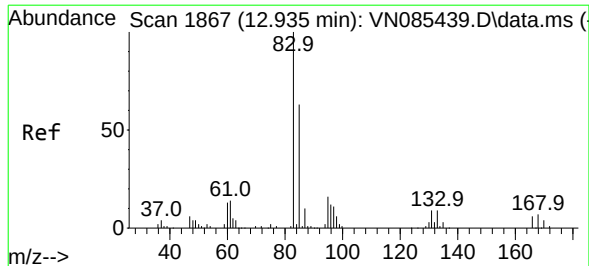
43 100

70 42.0 34.0 51.0

55 26.8 21.4 32.2

61 22.7 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 43.898 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

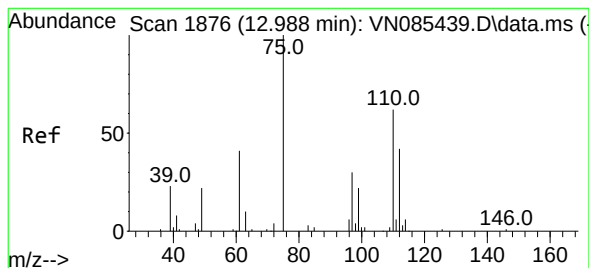
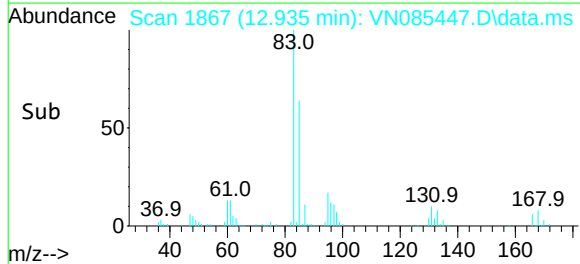
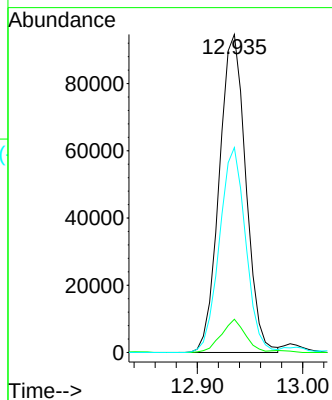
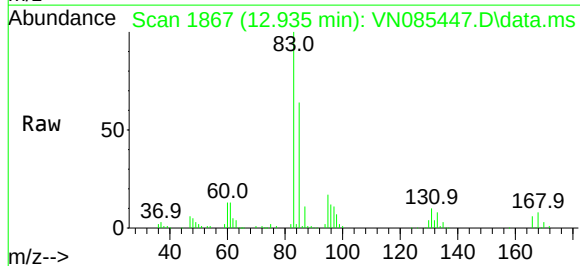
VSTDCCC050

Tgt Ion:	83	Resp:	165720
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	63.6	32.2	96.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#76

1,2,3-Trichloropropane

Concen: 46.662 ug/l m

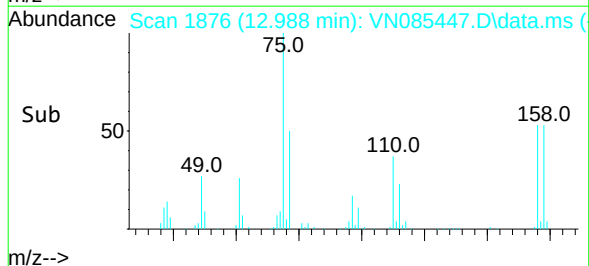
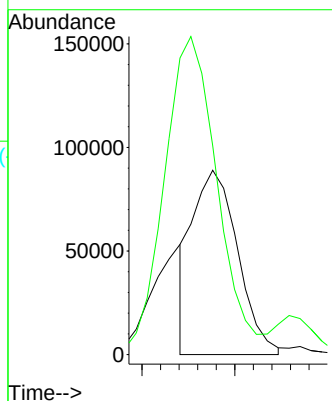
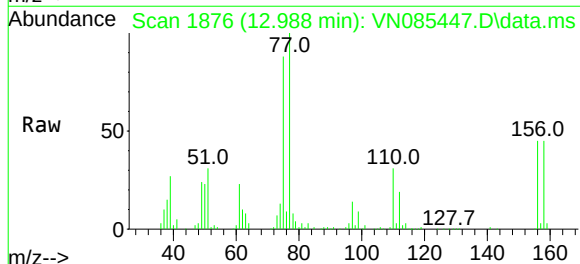
RT: 12.988 min Scan# 1876

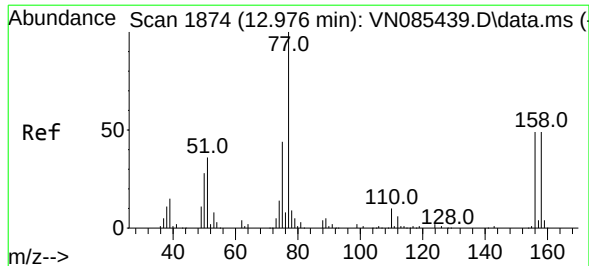
Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Tgt Ion:	75	Resp:	150178
Ion	Ratio	Lower	Upper
75	100		
77	201.4	109.7	329.2





#77

Bromobenzene

Concen: 49.115 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN085447.D

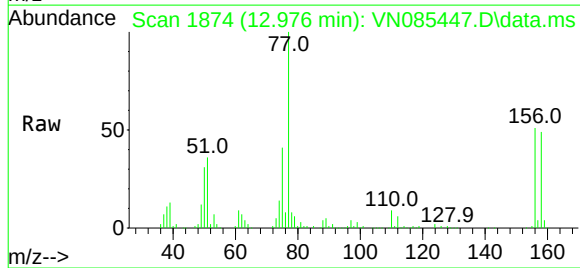
Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050



Tgt Ion:156 Resp: 137136

Ion Ratio Lower Upper

156 100

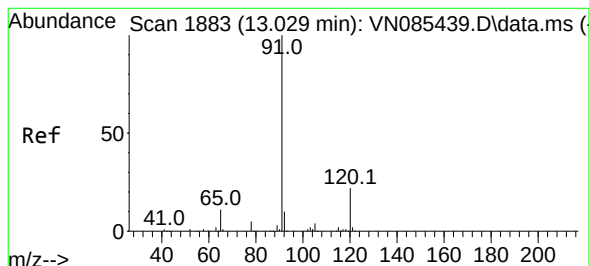
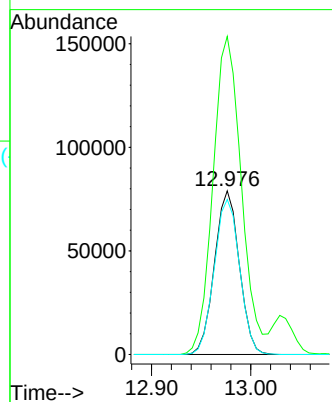
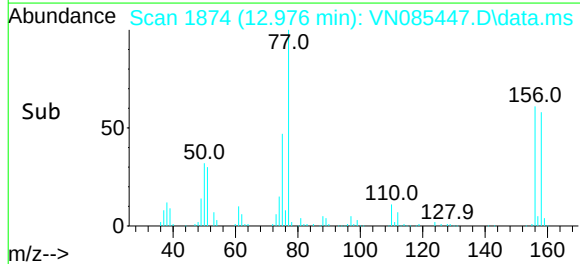
77 220.6 114.1 342.4

158 97.1 48.9 146.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#78

n-propylbenzene

Concen: 55.640 ug/l

RT: 13.029 min Scan# 1883

Delta R.T. -0.000 min

Lab File: VN085447.D

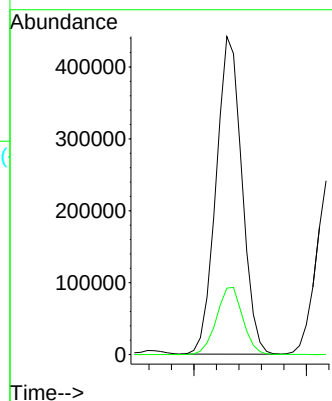
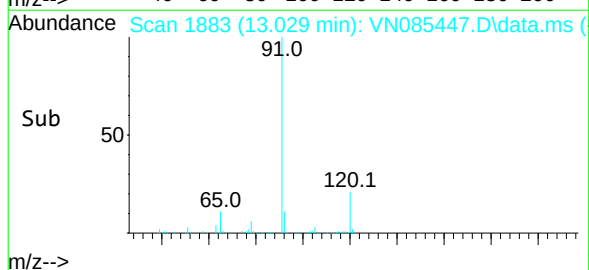
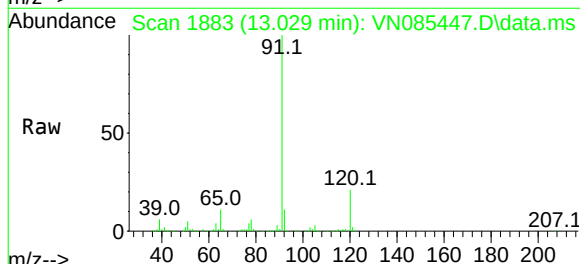
Acq: 15 Jan 2025 09:03

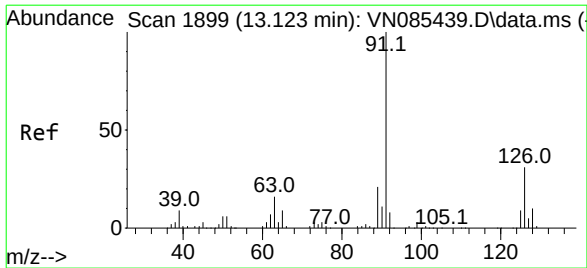
Tgt Ion: 91 Resp: 703936

Ion Ratio Lower Upper

91 100

120 21.5 10.9 32.6





#79

2-Chlorotoluene

Concen: 51.665 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 423036

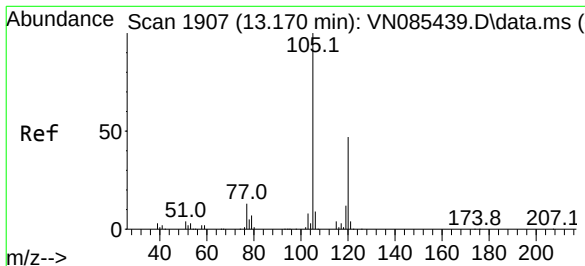
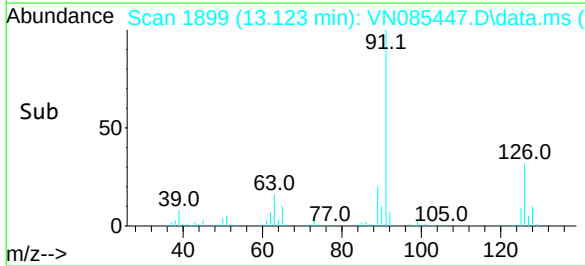
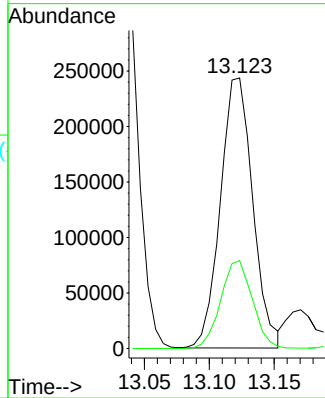
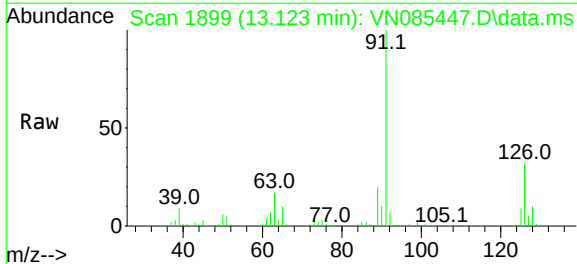
Ion Ratio Lower Upper

91 100

126 31.9 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#80

1,3,5-Trimethylbenzene

Concen: 55.763 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085447.D

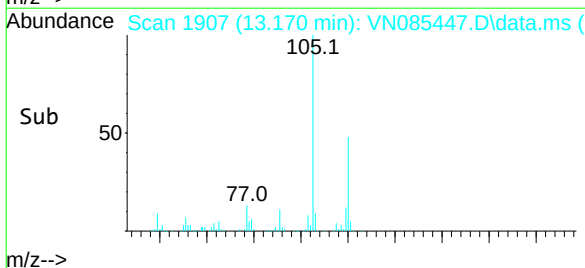
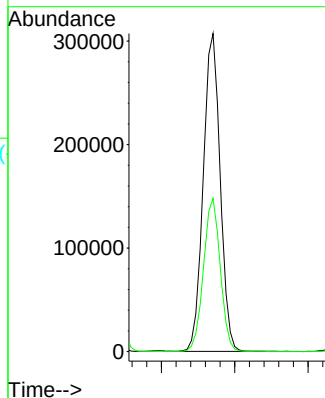
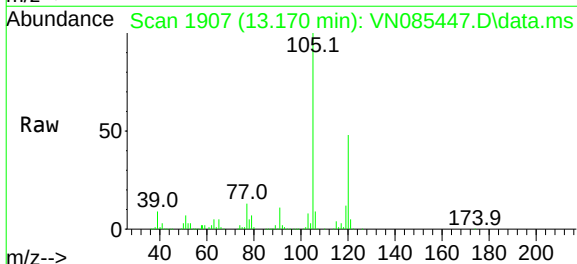
Acq: 15 Jan 2025 09:03

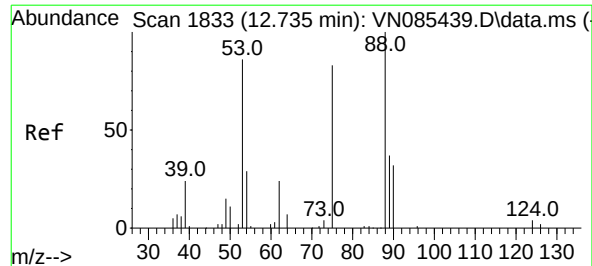
Tgt Ion:105 Resp: 492256

Ion Ratio Lower Upper

105 100

120 47.9 23.9 71.7





#81

trans-1,4-Dichloro-2-butene

Concen: 48.853 ug/l

RT: 12.729 min Scan# 1833

Delta R.T. -0.006 min

Lab File: VN085447.D

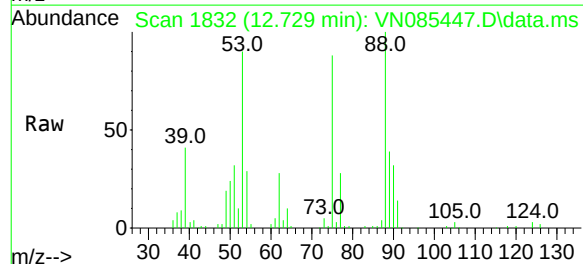
Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

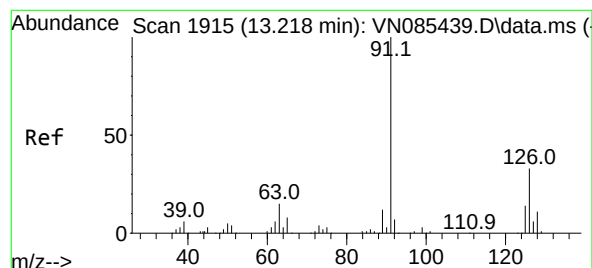
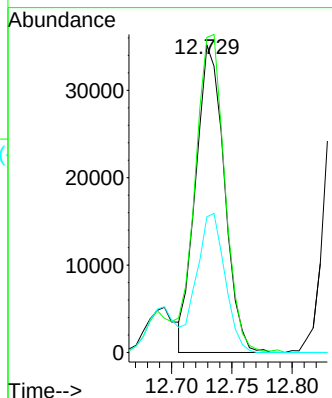
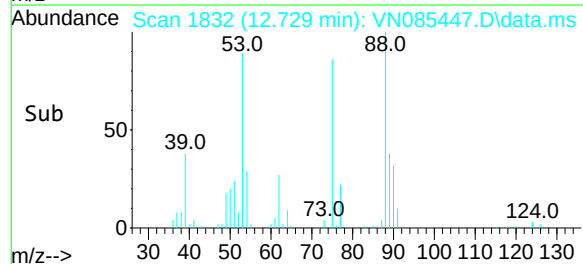
VSTDCCC050



Tgt Ion:	75	Resp:	58114
Ion	Ratio	Lower	Upper
75	100		
53	108.1	95.6	143.4
89	45.1	37.0	55.6

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#82

4-Chlorotoluene

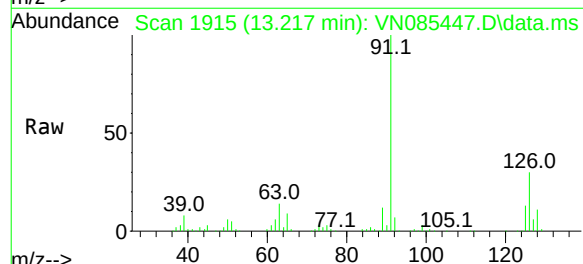
Concen: 52.164 ug/l

RT: 13.217 min Scan# 1915

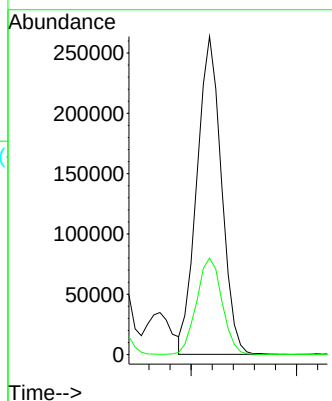
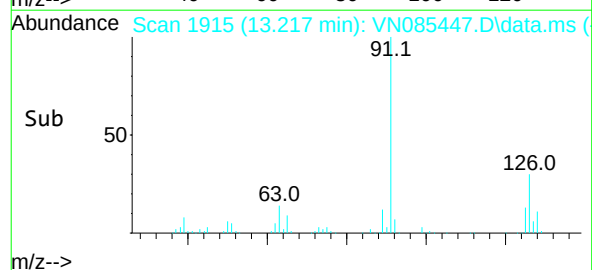
Delta R.T. -0.000 min

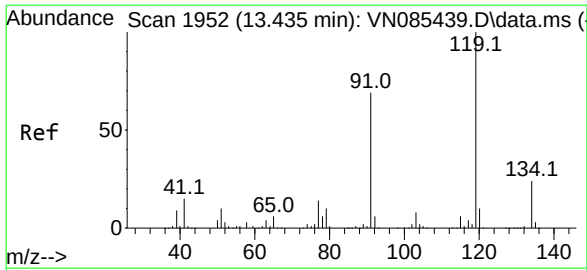
Lab File: VN085447.D

Acq: 15 Jan 2025 09:03



Tgt Ion:	91	Resp:	425288
Ion	Ratio	Lower	Upper
91	100		
126	31.6	15.9	47.7





#83

tert-Butylbenzene

Concen: 54.680 ug/l

RT: 13.435 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:119 Resp: 405351

Ion Ratio Lower Upper

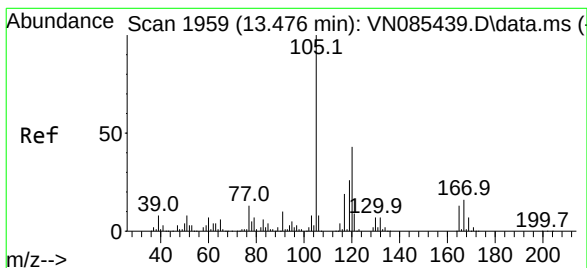
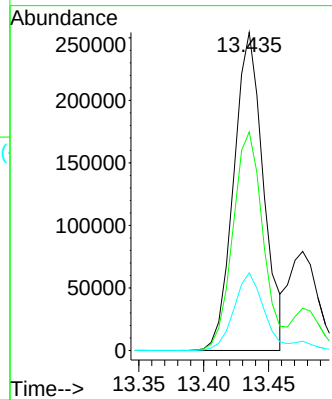
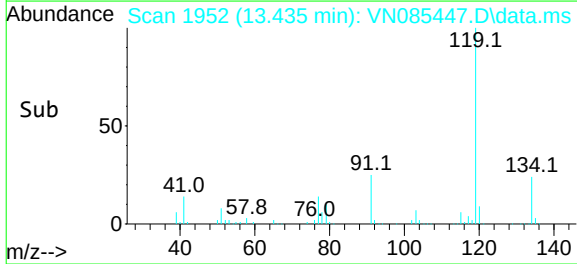
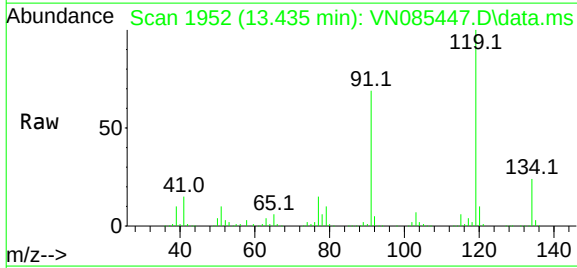
119 100

91 70.7 35.1 105.3

134 24.5 12.0 36.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#84

1,2,4-Trimethylbenzene

Concen: 56.692 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN085447.D

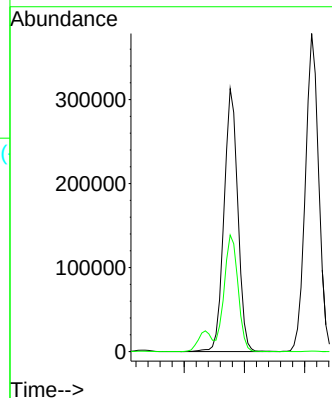
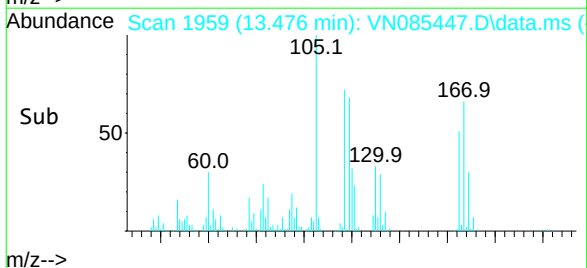
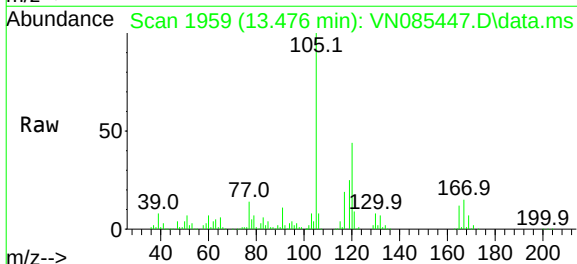
Acq: 15 Jan 2025 09:03

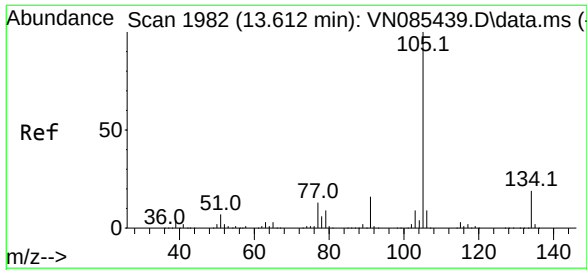
Tgt Ion:105 Resp: 498787

Ion Ratio Lower Upper

105 100

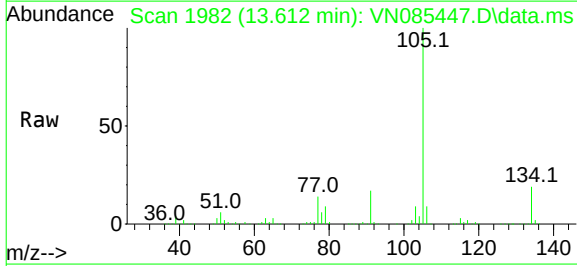
120 45.0 21.6 65.0





#85
sec-Butylbenzene
Concen: 56.497 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

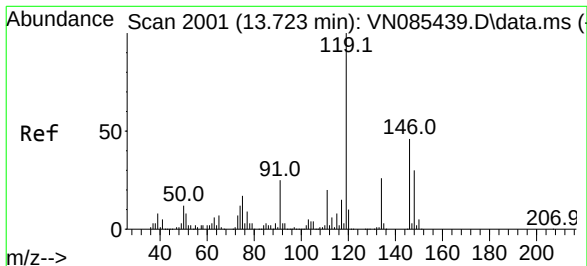
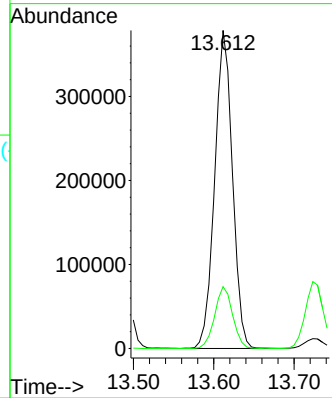
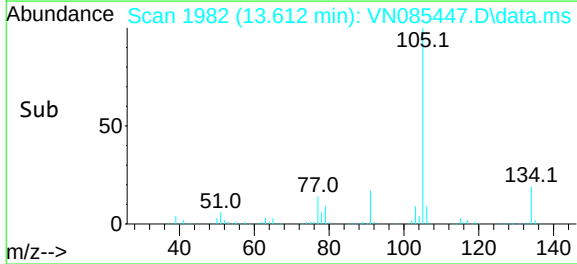
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:105 Resp: 580478
Ion Ratio Lower Upper
105 100
134 19.6 9.7 28.9

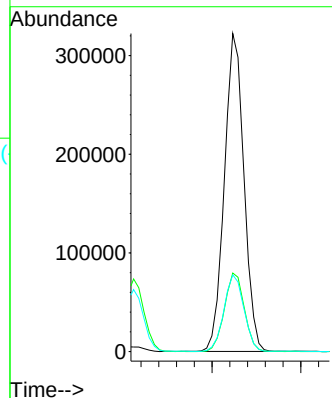
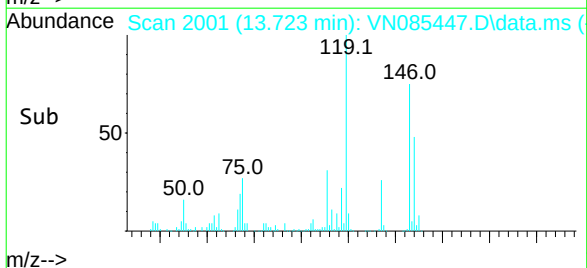
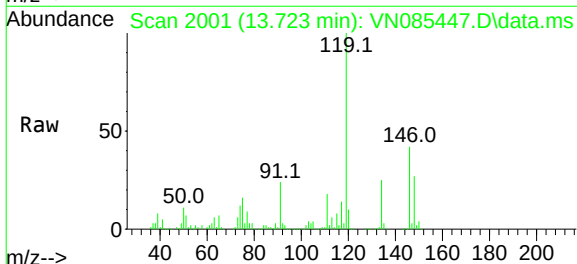
Manual Integrations
APPROVED

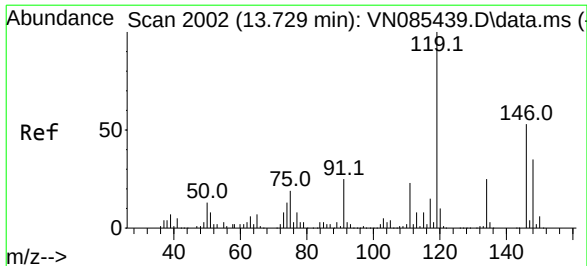
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#86
p-Isopropyltoluene
Concen: 52.852 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:119 Resp: 492423
Ion Ratio Lower Upper
119 100
134 25.1 12.7 38.0
91 24.5 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 50.137 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:146 Resp: 257806

Ion Ratio Lower Upper

146 100

111 42.0 21.4 64.3

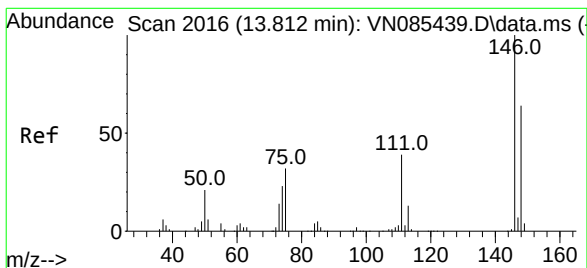
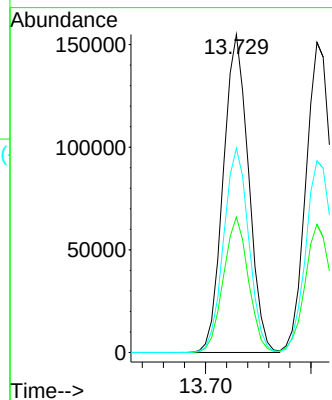
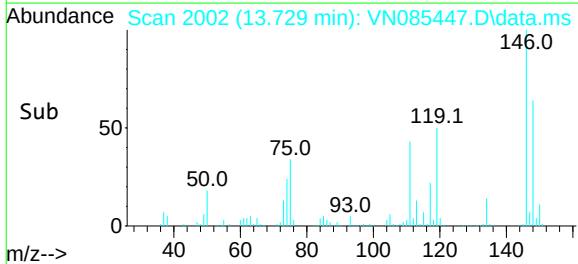
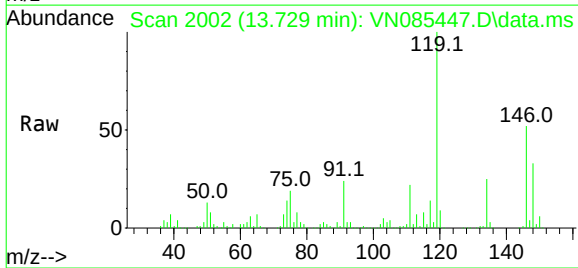
148 63.9 32.3 96.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#88

1,4-Dichlorobenzene

Concen: 48.073 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. -0.006 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

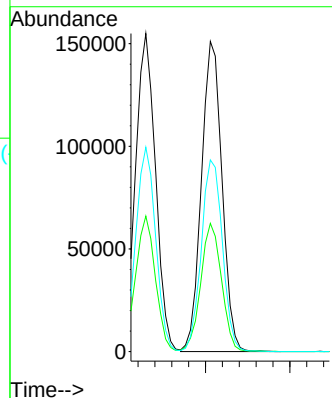
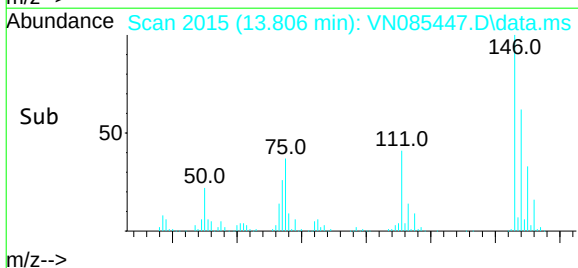
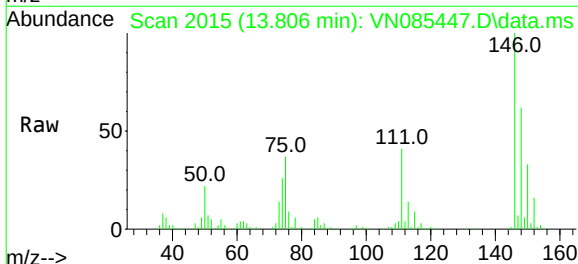
Tgt Ion:146 Resp: 256221

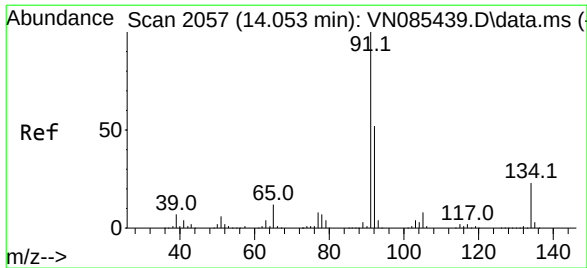
Ion Ratio Lower Upper

146 100

111 41.8 21.3 63.7

148 63.5 32.4 97.0





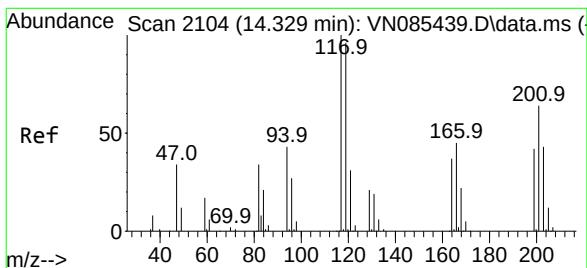
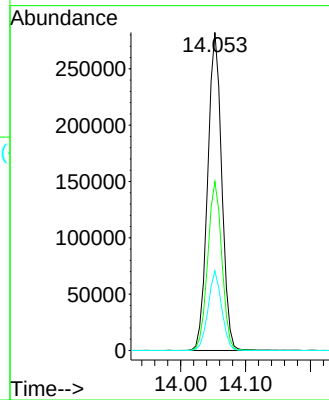
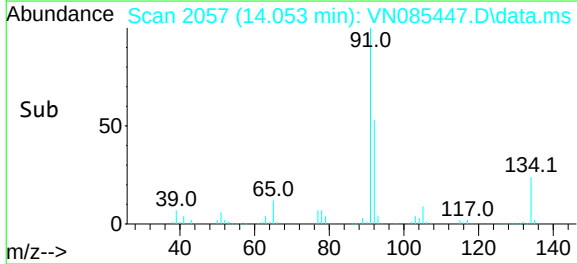
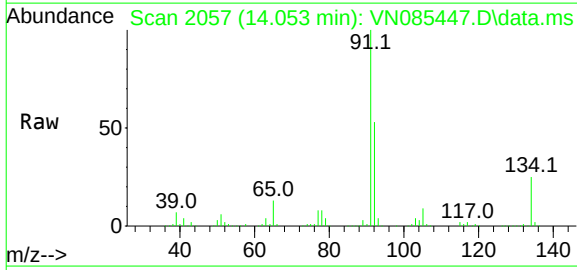
#89
n-Butylbenzene
Concen: 57.654 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 424966
Ion Ratio Lower Upper
91 100
92 53.2 25.8 77.3
134 24.2 11.7 35.1

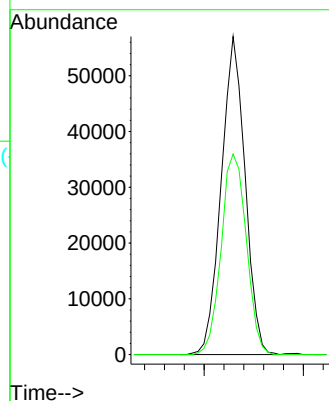
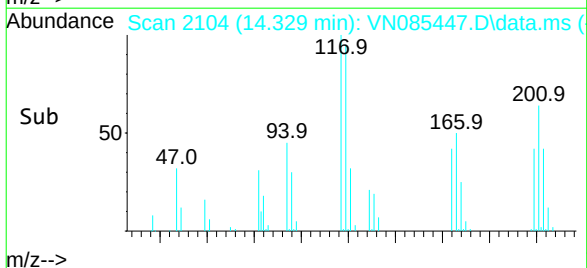
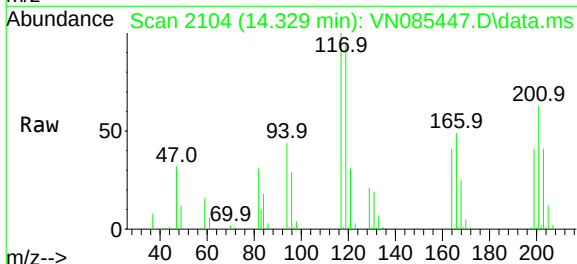
Manual Integrations
APPROVED

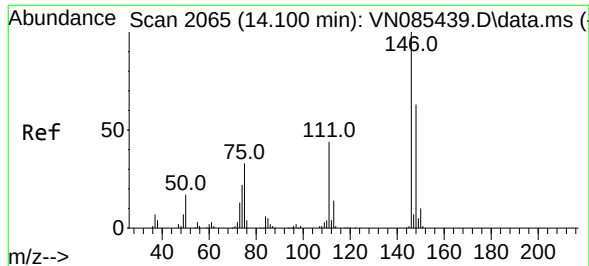
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#90
Hexachloroethane
Concen: 48.675 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

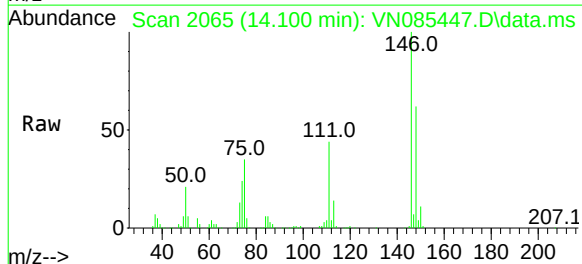
Tgt Ion:117 Resp: 95205
Ion Ratio Lower Upper
117 100
201 66.4 33.7 101.0





#91
1,2-Dichlorobenzene
Concen: 47.320 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

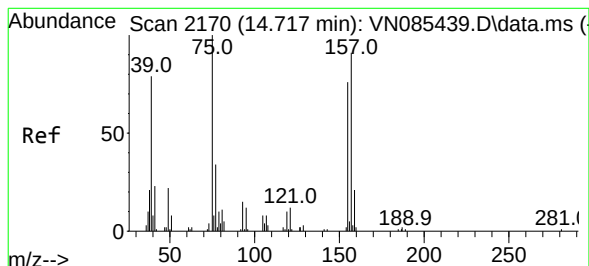
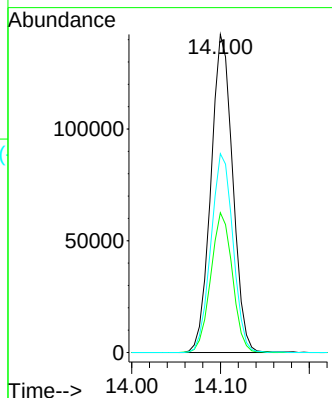
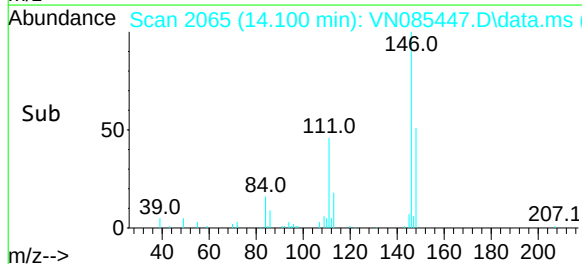
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 146 Resp: 242707
Ion Ratio Lower Upper
146 100
111 43.6 21.7 65.1
148 63.3 31.4 94.2

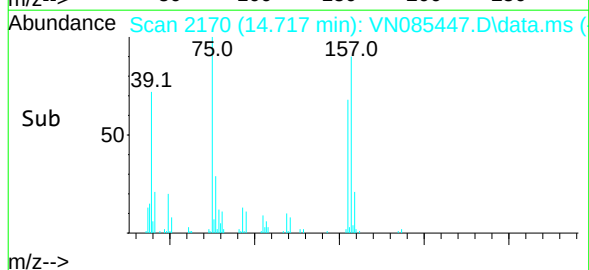
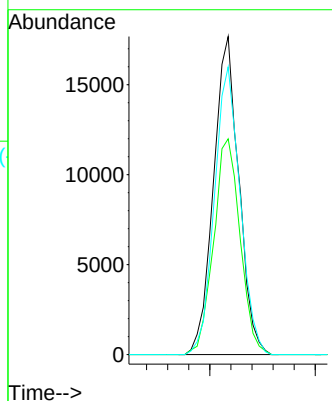
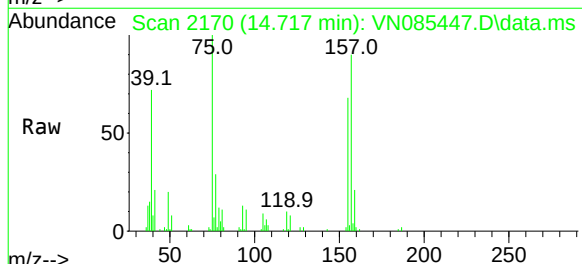
Manual Integrations
APPROVED

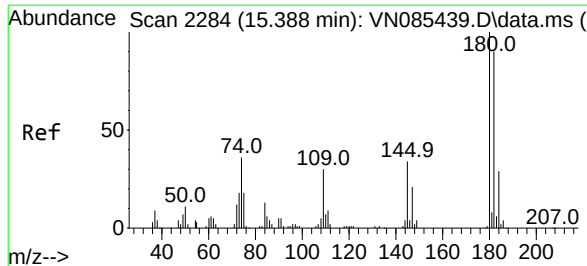
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 42.906 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 75 Resp: 29578
Ion Ratio Lower Upper
75 100
155 70.6 36.4 109.2
157 91.5 45.4 136.1





#93

1,2,4-Trichlorobenzene

Concen: 50.589 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. -0.000 min

Lab File: VN085447.D

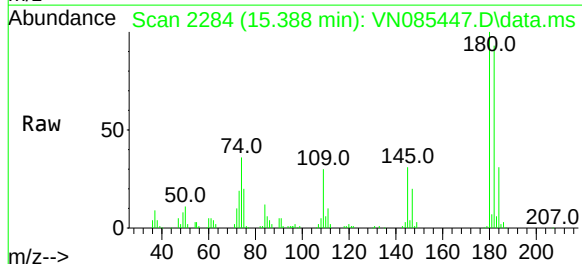
Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050



Tgt Ion:180 Resp: 120596

Ion Ratio Lower Upper

180 100

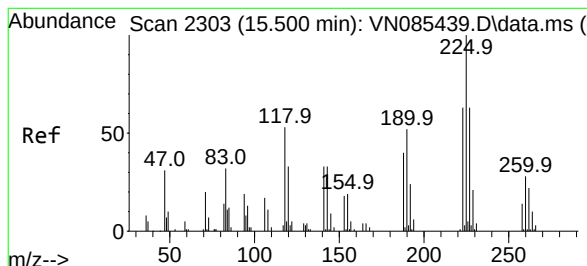
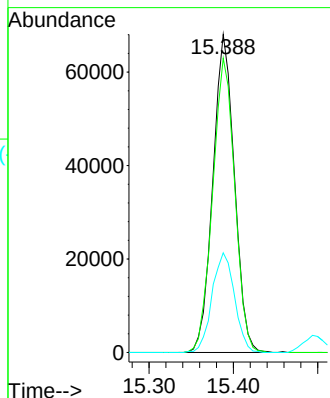
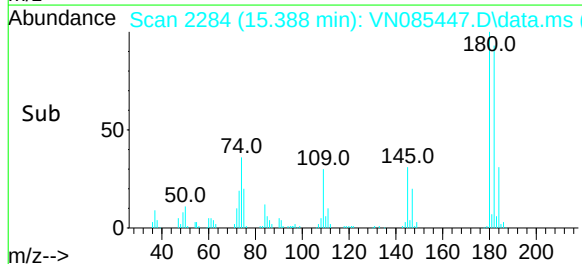
182 95.1 46.8 140.3

145 32.8 16.0 48.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#94

Hexachlorobutadiene

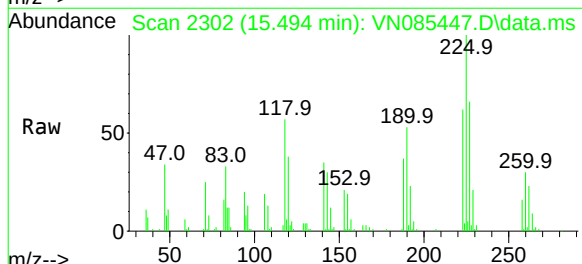
Concen: 47.470 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. -0.006 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03



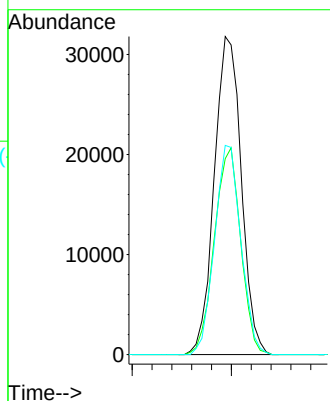
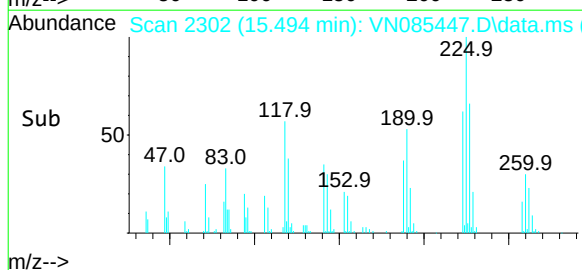
Tgt Ion:225 Resp: 60079

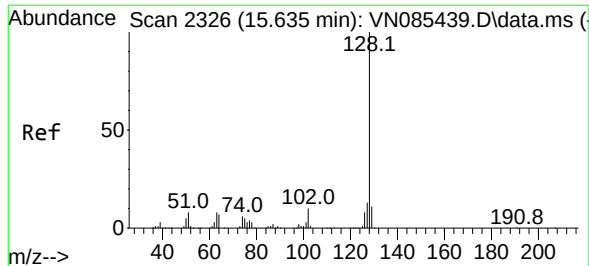
Ion Ratio Lower Upper

225 100

223 63.2 30.7 92.1

227 63.9 30.9 92.5





#95

Naphthalene

Concen: 46.012 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.000 min

Lab File: VN085447.D

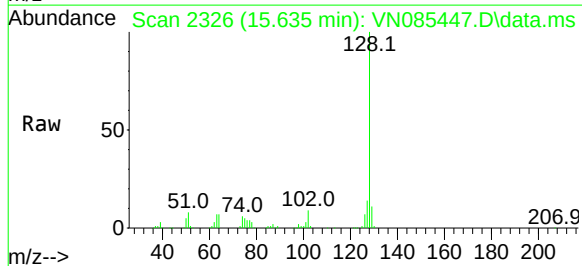
Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050



Tgt Ion:128 Resp: 327305

Ion Ratio Lower Upper

128 100

127 13.2 10.6 16.0

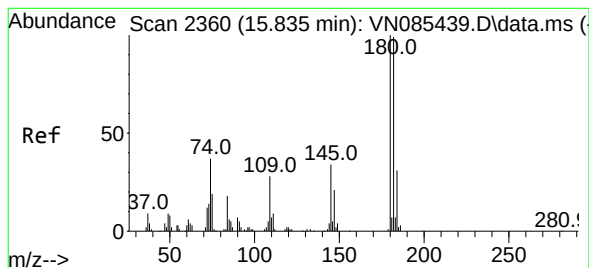
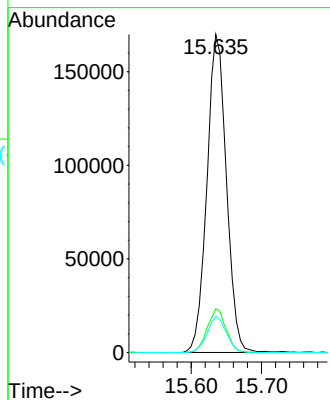
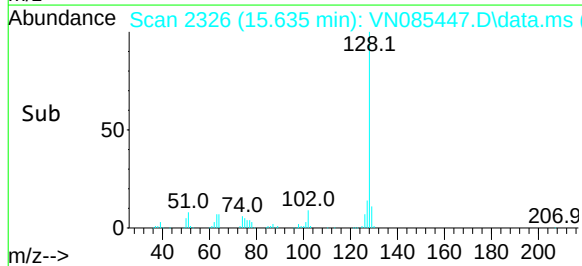
129 11.1 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#96

1,2,3-Trichlorobenzene

Concen: 47.236 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

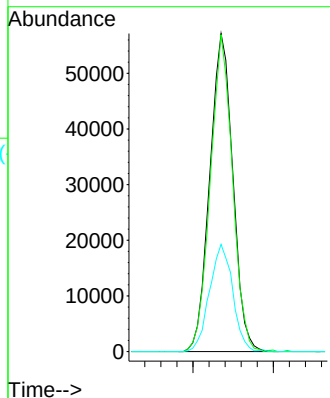
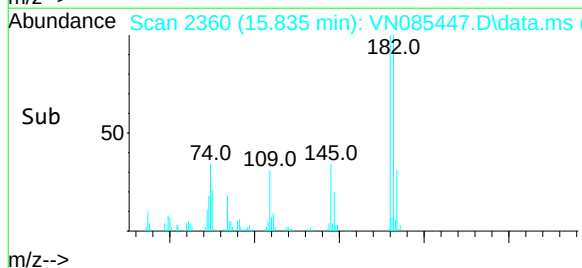
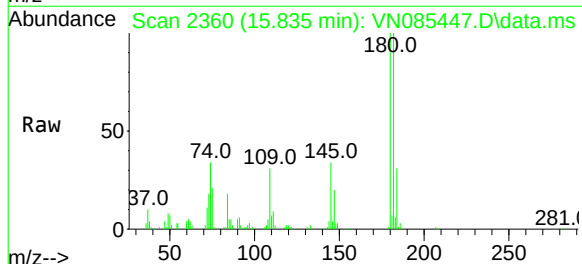
Tgt Ion:180 Resp: 113937

Ion Ratio Lower Upper

180 100

182 95.4 47.4 142.2

145 33.9 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085447.D
 Acq On : 15 Jan 2025 09:03
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jan 16 00:51:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 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	109	0.00
2 T	Dichlorodifluoromethane	0.677	0.657	3.0	114	0.00
3 P	Chloromethane	0.733	0.674	8.0	109	0.00
4 C	Vinyl Chloride	0.737	0.696	5.6#	111	0.00
5 T	Bromomethane	0.445	0.401	9.9	105	0.00
6 T	Chloroethane	0.467	0.426	8.8	110	0.00
7 T	Trichlorofluoromethane	1.069	1.042	2.5	114	0.00
8 T	Diethyl Ether	0.369	0.338	8.4	103	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.602	0.600	0.3	121	0.00
10 T	Methyl Iodide	0.690	0.683	1.0	104	0.00
11 T	Tert butyl alcohol	0.092	0.069	25.0	81	0.00
12 CM	1,1-Dichloroethene	0.537	0.531	1.1#	109	0.00
13 T	Acrolein	0.126	0.120	4.8	94	0.00
14 T	Allyl chloride	0.871	0.831	4.6	108	0.00
15 T	Acrylonitrile	0.294	0.260	11.6	96	0.00
16 T	Acetone	0.261	0.230	11.9	100	0.00
17 T	Carbon Disulfide	1.652	1.522	7.9	113	0.00
18 T	Methyl Acetate	0.793	0.700	11.7	97	0.00
19 T	Methyl tert-butyl Ether	1.742	1.757	-0.9	103	0.00
20 T	Methylene Chloride	0.646	0.605	6.3	105	0.00
21 T	trans-1,2-Dichloroethene	0.573	0.562	1.9	111	0.00
22 T	Diisopropyl ether	1.933	1.966	-1.7	106	0.00
23 T	Vinyl Acetate	1.353	1.403	-3.7	103	0.00
24 P	1,1-Dichloroethane	1.178	1.146	2.7	107	0.00
25 T	2-Butanone	0.384	0.337	12.2	95	0.00
26 T	2,2-Dichloropropane	0.953	1.028	-7.9	120	0.00
27 T	cis-1,2-Dichloroethene	0.675	0.674	0.1	108	0.00
28 T	Bromochloromethane	0.548	0.540	1.5	109	0.00
29 T	Tetrahydrofuran	0.243	0.225	7.4	94	0.00
30 C	Chloroform	1.218	1.163	4.5#	108	0.00
31 T	Cyclohexane	1.024	0.942	8.0	117	0.00
32 T	1,1,1-Trichloroethane	1.068	1.035	3.1	112	0.00
33 S	1,2-Dichloroethane-d4	0.807	0.819	-1.5	108	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	106	0.00
35 S	Dibromofluoromethane	0.347	0.369	-6.3	109	0.00
36 T	1,1-Dichloropropene	0.487	0.503	-3.3	115	0.00
37 T	Ethyl Acetate	0.491	0.440	10.4	95	0.00
38 T	Carbon Tetrachloride	0.557	0.563	-1.1	112	0.00
39 T	Methylcyclohexane	0.457	0.528	-15.5	120	0.00
40 TM	Benzene	1.463	1.504	-2.8	110	0.00
41 T	Methacrylonitrile	0.256	0.253	1.2	99	0.00
42 TM	1,2-Dichloroethane	0.551	0.550	0.2	106	0.00
43 T	Isopropyl Acetate	0.787	0.743	5.6	96	0.00
44 TM	Trichloroethene	0.341	0.345	-1.2	113	0.00
45 C	1,2-Dichloropropane	0.374	0.377	-0.8#	107	0.00
46 T	Dibromomethane	0.270	0.264	2.2	104	0.00
47 T	Bromodichloromethane	0.549	0.568	-3.5	107	0.00
48 T	Methyl methacrylate	0.354	0.361	-2.0	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085447.D
 Acq On : 15 Jan 2025 09:03
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jan 16 00:51:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.006	0.005	16.7	87	0.00
50 S	Toluene-d8	1.232	1.356	-10.1	113	0.00
51 T	4-Methyl-2-Pentanone	0.457	0.440	3.7	94	0.00
52 CM	Toluene	0.848	0.916	-8.0#	111	0.00
53 T	t-1,3-Dichloropropene	0.519	0.555	-6.9	106	0.00
54 T	cis-1,3-Dichloropropene	0.554	0.594	-7.2	107	0.00
55 T	1,1,2-Trichloroethane	0.335	0.337	-0.6	105	0.00
56 T	Ethyl methacrylate	0.469	0.515	-9.8	100	0.00
57 T	1,3-Dichloropropane	0.583	0.591	-1.4	104	0.00
58 T	2-Chloroethyl Vinyl ether	0.213	0.232	-8.9	102	0.00
59 T	2-Hexanone	0.321	0.312	2.8	92	0.00
60 T	Dibromochloromethane	0.405	0.408	-0.7	104	0.00
61 T	1,2-Dibromoethane	0.334	0.327	2.1	103	0.00
62 S	4-Bromofluorobenzene	0.422	0.469	-11.1	110	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
64 T	Tetrachloroethene	0.341	0.355	-4.1	117	0.00
65 PM	Chlorobenzene	1.095	1.101	-0.5	109	0.00
66 T	1,1,1,2-Tetrachloroethane	0.402	0.398	1.0	108	0.00
67 C	Ethyl Benzene	1.784	1.967	-10.3#	112	0.00
68 T	m/p-Xylenes	0.659	0.755	-14.6	114	0.00
69 T	o-Xylene	0.630	0.699	-11.0	109	0.00
70 T	Styrene	1.043	1.208	-15.8	110	0.00
71 P	Bromoform	0.288	0.302	-4.9	104	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00
73 T	Isopropylbenzene	3.375	3.662	-8.5	115	0.00
74 T	N-amyl acetate	1.517	1.451	4.4	97	0.00
75 P	1,1,2,2-Tetrachloroethane	1.192	1.047	12.2	99	0.00
76 T	1,2,3-Trichloropropane	1.016	0.948	6.7	115	0.00
77 T	Bromobenzene	0.882	0.866	1.8	109	0.00
78 T	n-propylbenzene	3.995	4.446	-11.3	116	0.00
79 T	2-Chlorotoluene	2.586	2.672	-3.3	112	0.00
80 T	1,3,5-Trimethylbenzene	2.787	3.109	-11.6	114	0.00
81 T	trans-1,4-Dichloro-2-butene	0.376	0.367	2.4	102	0.00
82 T	4-Chlorotoluene	2.574	2.686	-4.4	112	0.00
83 T	tert-Butylbenzene	2.341	2.560	-9.4	113	0.00
84 T	1,2,4-Trimethylbenzene	2.778	3.150	-13.4	113	0.00
85 T	sec-Butylbenzene	3.244	3.666	-13.0	116	0.00
86 T	p-Isopropyltoluene	2.631	3.110	-18.2	117	0.00
87 T	1,3-Dichlorobenzene	1.624	1.628	-0.2	112	0.00
88 T	1,4-Dichlorobenzene	1.683	1.618	3.9	112	0.00
89 T	n-Butylbenzene	2.327	2.684	-15.3	117	0.00
90 T	Hexachloroethane	0.618	0.601	2.8	113	0.00
91 T	1,2-Dichlorobenzene	1.620	1.533	5.4	106	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.218	0.187	14.2	91	0.00
93 T	1,2,4-Trichlorobenzene	0.753	0.762	-1.2	105	0.00
94 T	Hexachlorobutadiene	0.400	0.379	5.3	112	0.00
95 T	Naphthalene	2.246	2.067	8.0	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085447.D
Acq On : 15 Jan 2025 09:03
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jan 16 00:51:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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	0.762	0.720	5.5	99	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085447.D
 Acq On : 15 Jan 2025 09:03
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jan 16 00:51:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 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	109	0.00
2 T	Dichlorodifluoromethane	50.000	48.525	3.0	114	0.00
3 P	Chloromethane	50.000	45.992	8.0	109	0.00
4 C	Vinyl Chloride	50.000	47.239	5.5#	111	0.00
5 T	Bromomethane	50.000	45.067	9.9	105	0.00
6 T	Chloroethane	50.000	45.648	8.7	110	0.00
7 T	Trichlorofluoromethane	50.000	48.720	2.6	114	0.00
8 T	Diethyl Ether	50.000	45.767	8.5	103	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	49.808	0.4	121	0.00
10 T	Methyl Iodide	50.000	49.511	1.0	104	0.00
11 T	Tert butyl alcohol	250.000	185.463	25.8#	81	0.00
12 CM	1,1-Dichloroethene	50.000	49.459	1.1#	109	0.00
13 T	Acrolein	250.000	238.713	4.5	94	0.00
14 T	Allyl chloride	50.000	47.714	4.6	108	0.00
15 T	Acrylonitrile	250.000	221.624	11.4	96	0.00
16 T	Acetone	250.000	220.081	12.0	100	0.00
17 T	Carbon Disulfide	50.000	46.066	7.9	113	0.00
18 T	Methyl Acetate	50.000	44.146	11.7	97	0.00
19 T	Methyl tert-butyl Ether	50.000	50.410	-0.8	103	0.00
20 T	Methylene Chloride	50.000	46.863	6.3	105	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.008	2.0	111	0.00
22 T	Diisopropyl ether	50.000	50.865	-1.7	106	0.00
23 T	Vinyl Acetate	250.000	259.270	-3.7	103	0.00
24 P	1,1-Dichloroethane	50.000	48.606	2.8	107	0.00
25 T	2-Butanone	250.000	219.497	12.2	95	0.00
26 T	2,2-Dichloropropane	50.000	53.956	-7.9	120	0.00
27 T	cis-1,2-Dichloroethene	50.000	49.893	0.2	108	0.00
28 T	Bromochloromethane	50.000	49.226	1.5	109	0.00
29 T	Tetrahydrofuran	250.000	231.013	7.6	94	0.00
30 C	Chloroform	50.000	47.743	4.5#	108	0.00
31 T	Cyclohexane	50.000	45.962	8.1	117	0.00
32 T	1,1,1-Trichloroethane	50.000	48.453	3.1	112	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.745	-1.5	108	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	106	0.00
35 S	Dibromofluoromethane	50.000	53.211	-6.4	109	0.00
36 T	1,1-Dichloropropene	50.000	51.631	-3.3	115	0.00
37 T	Ethyl Acetate	50.000	44.802	10.4	95	0.00
38 T	Carbon Tetrachloride	50.000	50.466	-0.9	112	0.00
39 T	Methylcyclohexane	50.000	57.732	-15.5	120	0.00
40 TM	Benzene	50.000	51.417	-2.8	110	0.00
41 T	Methacrylonitrile	50.000	49.387	1.2	99	0.00
42 TM	1,2-Dichloroethane	50.000	49.881	0.2	106	0.00
43 T	Isopropyl Acetate	50.000	47.153	5.7	96	0.00
44 TM	Trichloroethene	50.000	50.700	-1.4	113	0.00
45 C	1,2-Dichloropropane	50.000	50.468	-0.9#	107	0.00
46 T	Dibromomethane	50.000	48.873	2.3	104	0.00
47 T	Bromodichloromethane	50.000	51.671	-3.3	107	0.00
48 T	Methyl methacrylate	50.000	50.945	-1.9	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085447.D
 Acq On : 15 Jan 2025 09:03
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jan 16 00:51:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 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	873.742	12.6	87	0.00
50 S	Toluene-d8	50.000	55.032	-10.1	113	0.00
51 T	4-Methyl-2-Pentanone	250.000	240.885	3.6	94	0.00
52 CM	Toluene	50.000	54.029	-8.1#	111	0.00
53 T	t-1,3-Dichloropropene	50.000	53.447	-6.9	106	0.00
54 T	cis-1,3-Dichloropropene	50.000	53.582	-7.2	107	0.00
55 T	1,1,2-Trichloroethane	50.000	50.215	-0.4	105	0.00
56 T	Ethyl methacrylate	50.000	45.714	8.6	100	0.00
57 T	1,3-Dichloropropane	50.000	50.662	-1.3	104	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	272.966	-9.2	102	0.00
59 T	2-Hexanone	250.000	242.307	3.1	92	0.00
60 T	Dibromochloromethane	50.000	50.392	-0.8	104	0.00
61 T	1,2-Dibromoethane	50.000	49.039	1.9	103	0.00
62 S	4-Bromofluorobenzene	50.000	55.673	-11.3	110	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	107	0.00
64 T	Tetrachloroethene	50.000	52.107	-4.2	117	0.00
65 PM	Chlorobenzene	50.000	50.257	-0.5	109	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	49.494	1.0	108	0.00
67 C	Ethyl Benzene	50.000	55.122	-10.2#	112	0.00
68 T	m/p-Xylenes	100.000	114.570	-14.6	114	0.00
69 T	o-Xylene	50.000	55.481	-11.0	109	0.00
70 T	Styrene	50.000	57.933	-15.9	110	0.00
71 P	Bromoform	50.000	52.493	-5.0	104	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	108	0.00
73 T	Isopropylbenzene	50.000	54.261	-8.5	115	0.00
74 T	N-amyl acetate	50.000	47.841	4.3	97	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	43.898	12.2	99	0.00
76 T	1,2,3-Trichloropropane	50.000	46.662	6.7	115	0.00
77 T	Bromobenzene	50.000	49.115	1.8	109	0.00
78 T	n-propylbenzene	50.000	55.640	-11.3	116	0.00
79 T	2-Chlorotoluene	50.000	51.665	-3.3	112	0.00
80 T	1,3,5-Trimethylbenzene	50.000	55.763	-11.5	114	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	48.853	2.3	102	0.00
82 T	4-Chlorotoluene	50.000	52.164	-4.3	112	0.00
83 T	tert-Butylbenzene	50.000	54.680	-9.4	113	0.00
84 T	1,2,4-Trimethylbenzene	50.000	56.692	-13.4	113	0.00
85 T	sec-Butylbenzene	50.000	56.497	-13.0	116	0.00
86 T	p-Isopropyltoluene	50.000	52.852	-5.7	117	0.00
87 T	1,3-Dichlorobenzene	50.000	50.137	-0.3	112	0.00
88 T	1,4-Dichlorobenzene	50.000	48.073	3.9	112	0.00
89 T	n-Butylbenzene	50.000	57.654	-15.3	117	0.00
90 T	Hexachloroethane	50.000	48.675	2.7	113	0.00
91 T	1,2-Dichlorobenzene	50.000	47.320	5.4	106	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	42.906	14.2	91	0.00
93 T	1,2,4-Trichlorobenzene	50.000	50.589	-1.2	105	0.00
94 T	Hexachlorobutadiene	50.000	47.470	5.1	112	0.00
95 T	Naphthalene	50.000	46.012	8.0	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085447.D
Acq On : 15 Jan 2025 09:03
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jan 16 00:51:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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	47.236	5.5	99	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: TETR06

Lab Code: CHEM Case No.: Q1062 SAS No.: Q1062 SDG No.: Q1062

Instrument ID: MSVOA_N Calibration Date/Time: 01/15/2025 15:58

Lab File ID: VN085463.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.733	0.702	0.1	-4.23	50
Vinyl Chloride	0.737	0.708		-3.93	50
Bromomethane	0.445	0.408		-8.31	50
Chloroethane	0.467	0.455		-2.57	50
Trichlorofluoromethane	1.069	1.073		0.37	50
1,1,2-Trichlorotrifluoroethane	0.602	0.611		1.5	50
1,1-Dichloroethene	0.537	0.553		2.98	50
Acetone	0.261	0.262		0.38	50
Carbon Disulfide	1.652	1.549		-6.24	50
Methyl tert-butyl Ether	1.742	1.940		11.37	50
Methylene Chloride	0.646	0.639		-1.08	50
trans-1,2-Dichloroethene	0.573	0.583		1.75	50
1,1-Dichloroethane	1.178	1.209	0.1	2.63	50
2-Butanone	0.384	0.414		7.81	50
Carbon Tetrachloride	0.557	0.568		1.98	50
cis-1,2-Dichloroethene	0.675	0.710		5.18	50
Chloroform	1.218	1.244		2.13	50
1,1,1-Trichloroethane	1.068	1.085		1.59	50
Methylcyclohexane	0.457	0.526		15.1	50
Benzene	1.463	1.516		3.62	50
1,2-Dichloroethane	0.551	0.569		3.27	50
Trichloroethene	0.341	0.335		-1.76	50
1,2-Dichloropropane	0.374	0.381		1.87	50
Bromodichloromethane	0.549	0.580		5.65	50
4-Methyl-2-Pentanone	0.457	0.517		13.13	50
Toluene	0.848	0.933		10.02	50
t-1,3-Dichloropropene	0.519	0.581		11.95	50
cis-1,3-Dichloropropene	0.554	0.617		11.37	50
1,1,2-Trichloroethane	0.335	0.347		3.58	50
2-Hexanone	0.321	0.376		17.13	50
Dibromochloromethane	0.405	0.424		4.69	50
Tetrachloroethene	0.341	0.322		-5.57	50
Chlorobenzene	1.095	1.124	0.3	2.65	50
Ethyl Benzene	1.784	2.015		12.95	50
m/p-Xylenes	0.659	0.755		14.57	50
o-Xylene	0.630	0.715		13.49	50
Styrene	1.043	1.237		18.6	50
Bromoform	0.288	0.318	0.1	10.42	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06
 Lab Code: CHEM Case No.: Q1062 SAS No.: Q1062 SDG No.: Q1062
 Instrument ID: MSVOA_N Calibration Date/Time: 01/15/2025 15:58
 Lab File ID: VN085463.D Init. Calib. Date(s): 01/14/2025 01/14/2025
 Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19
 GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.375	3.695		9.48	50
1,1,2,2-Tetrachloroethane	1.192	1.175	0.3	-1.43	50
1,3-Dichlorobenzene	1.624	1.668		2.71	50
1,4-Dichlorobenzene	1.683	1.639		-2.61	50
1,2-Dichlorobenzene	1.620	1.603		-1.05	50
1,2-Dichloroethane-d4	0.807	0.841		4.21	50
Dibromofluoromethane	0.347	0.359		3.46	50
Toluene-d8	1.232	1.331		8.04	50
4-Bromofluorobenzene	0.422	0.473		12.09	50

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\VN011525\
 Data File : VN085463.D
 Acq On : 15 Jan 2025 15:58
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:00:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	218558	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	374640	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	330319	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	166317	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	183857	52.114	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	104.220%
35) Dibromofluoromethane	8.165	113	134312	51.677	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.360%
50) Toluene-d8	10.565	98	498748	54.009	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	108.020%
62) 4-Bromofluorobenzene	12.847	95	177300	56.127	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	112.260%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	149573	50.545	ug/l	99
3) Chloromethane	2.359	50	153360	47.865	ug/l	97
4) Vinyl Chloride	2.512	62	154638	48.017	ug/l	99
5) Bromomethane	2.948	94	89160	45.833	ug/l	100
6) Chloroethane	3.118	64	99471	48.718	ug/l	98
7) Trichlorofluoromethane	3.500	101	234589	50.203	ug/l	98
8) Diethyl Ether	3.959	74	78639	48.714	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	133519	50.730	ug/l	99
10) Methyl Iodide	4.589	142	158063	52.443	ug/l	97
11) Tert butyl alcohol	5.506	59	107622	266.406	ug/l	98
12) 1,1-Dichloroethene	4.342	96	120856	51.524	ug/l	97
13) Acrolein	4.171	56	156827	284.383	ug/l	98
14) Allyl chloride	5.018	41	195577	51.384	ug/l	98
15) Acrylonitrile	5.718	53	337135	262.738	ug/l	98
16) Acetone	4.418	43	286337	251.190	ug/l	97
17) Carbon Disulfide	4.712	76	338441	46.862	ug/l	99
18) Methyl Acetate	5.018	43	179563	51.803	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	424024	55.672	ug/l	100
20) Methylene Chloride	5.277	84	139560	49.455	ug/l	93
21) trans-1,2-Dichloroethene	5.783	96	127358	50.805	ug/l	96
22) Diisopropyl ether	6.665	45	467061	55.286	ug/l	96
23) Vinyl Acetate	6.600	43	1731604	292.883	ug/l	99
24) 1,1-Dichloroethane	6.565	63	264195	51.287	ug/l	98
25) 2-Butanone	7.477	43	452029	269.467	ug/l	99
26) 2,2-Dichloropropane	7.488	77	236796	56.857	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	155179	52.557	ug/l	99
28) Bromochloromethane	7.806	49	119440	49.837	ug/l	99
29) Tetrahydrofuran	7.835	42	302642	284.562	ug/l	98
30) Chloroform	7.965	83	271813	51.054	ug/l	99
31) Cyclohexane	8.253	56	218304	48.757	ug/l	95
32) 1,1,1-Trichloroethane	8.165	97	237039	50.757	ug/l	97
36) 1,1-Dichloropropene	8.371	75	184438	50.562	ug/l	99
37) Ethyl Acetate	7.553	43	187078	50.810	ug/l	98
38) Carbon Tetrachloride	8.359	117	212942	50.991	ug/l	100
39) Methylcyclohexane	9.594	83	196879	57.436	ug/l	97
40) Benzene	8.600	78	567975	51.821	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085463.D
 Acq On : 15 Jan 2025 15:58
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:00:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	105319	54.981	ug/l	98
42) 1,2-Dichloroethane	8.665	62	213125	51.629	ug/l	99
43) Isopropyl Acetate	8.682	43	339818	57.599	ug/l	96
44) Trichloroethene	9.347	130	125677	49.260	ug/l	95
45) 1,2-Dichloropropane	9.618	63	142897	51.043	ug/l	99
46) Dibromomethane	9.706	93	100497	49.750	ug/l	97
47) Bromodichloromethane	9.882	83	217353	52.814	ug/l	99
48) Methyl methacrylate	9.677	41	153447	57.796	ug/l	98
49) 1,4-Dioxane	9.688	88	43495	972.836	ug/l	99
51) 4-Methyl-2-Pentanone	10.441	43	967748	282.679	ug/l	100
52) Toluene	10.629	92	349488	55.032	ug/l	98
53) t-1,3-Dichloropropene	10.829	75	217586	55.946	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	231235	55.661	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	130083	51.759	ug/l	99
56) Ethyl methacrylate	10.871	69	211176	49.885	ug/l	98
57) 1,3-Dichloropropane	11.159	76	233088	53.338	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	462882	290.228	ug/l	99
59) 2-Hexanone	11.194	43	703719	292.136	ug/l	99
60) Dibromochloromethane	11.353	129	158806	52.339	ug/l	100
61) 1,2-Dibromoethane	11.465	107	127688	51.040	ug/l	99
64) Tetrachloroethene	11.100	164	106305	47.207	ug/l	99
65) Chlorobenzene	11.888	112	371312	51.313	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	133724	50.351	ug/l	99
67) Ethyl Benzene	11.959	91	665536	56.469	ug/l	99
68) m/p-Xylenes	12.065	106	498925	114.541	ug/l	99
69) o-Xylene	12.394	106	236130	56.724	ug/l	99
70) Styrene	12.406	104	408614	59.312	ug/l	99
71) Bromoform	12.576	173	105169	55.344	ug/l #	98
73) Isopropylbenzene	12.694	105	614595	54.752	ug/l	100
74) N-amyl acetate	12.488	43	283775	56.244	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	195465	49.296	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	154649m	45.748	ug/l	
77) Bromobenzene	12.976	156	146854	50.075	ug/l	99
78) n-propylbenzene	13.035	91	748465	56.324	ug/l	100
79) 2-Chlorotoluene	13.123	91	450235	52.351	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	523728	56.485	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	70693m	56.580	ug/l	
82) 4-Chlorotoluene	13.217	91	459658	53.678	ug/l	100
83) tert-Butylbenzene	13.435	119	437674	56.211	ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	531276	57.491	ug/l	100
85) sec-Butylbenzene	13.612	105	626587	58.063	ug/l	100
86) p-Isopropyltoluene	13.729	119	525049	53.560	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	277409	51.364	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	272594	48.694	ug/l	99
89) n-Butylbenzene	14.053	91	455243	58.802	ug/l	99
90) Hexachloroethane	14.329	117	103728	50.491	ug/l	99
91) 1,2-Dichlorobenzene	14.100	146	266635	49.494	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	36986	51.081	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	133515	53.324	ug/l	99
94) Hexachlorobutadiene	15.500	225	64832	48.771	ug/l	99
95) Naphthalene	15.635	128	399446	53.462	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	128843	50.856	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085463.D
Acq On : 15 Jan 2025 15:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

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

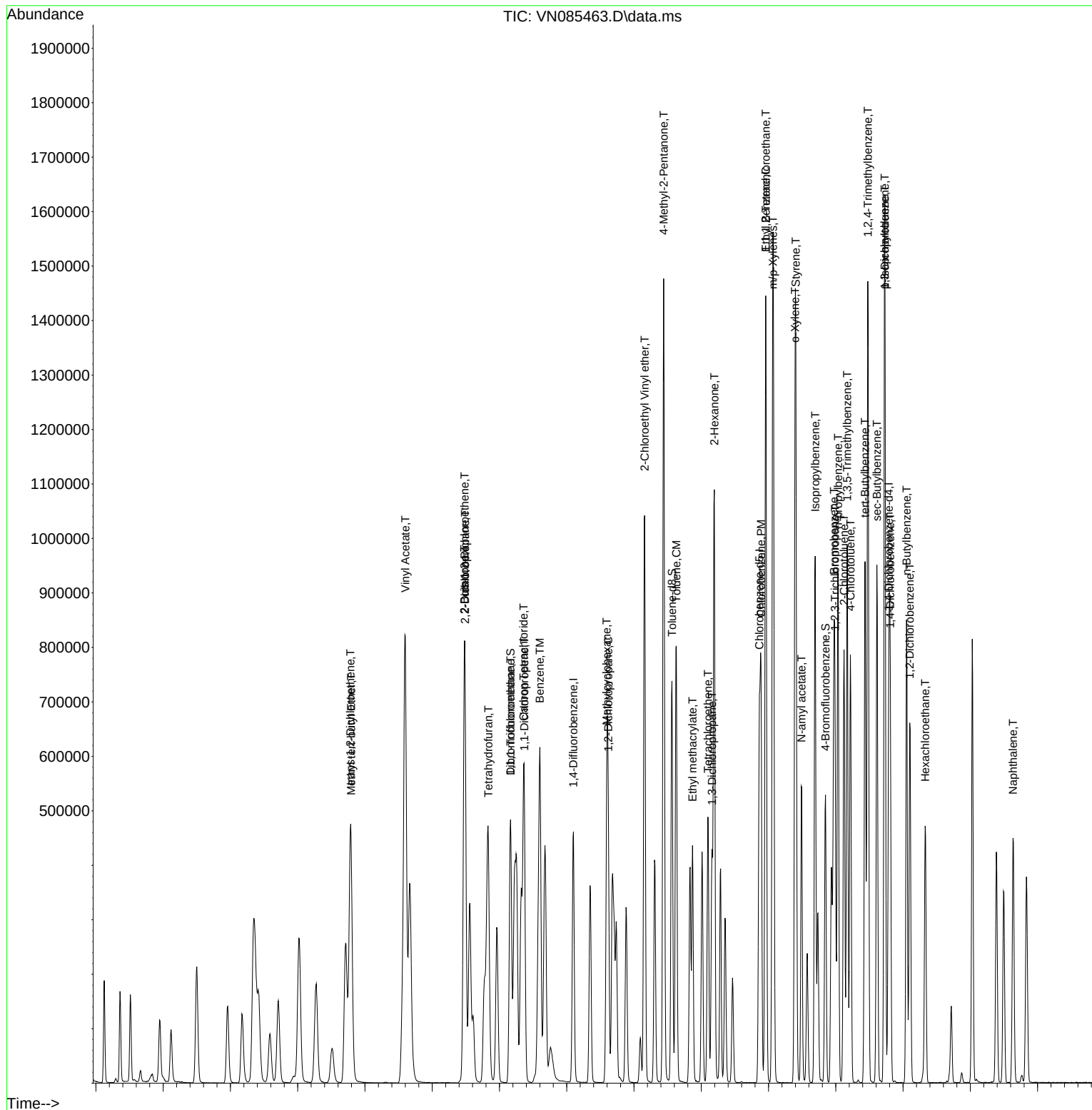
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085463.D
Acq On : 15 Jan 2025 15:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

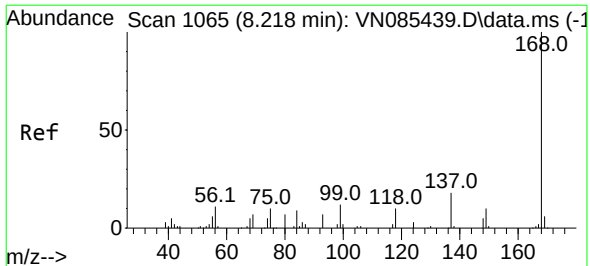
Quant Time: Jan 16 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

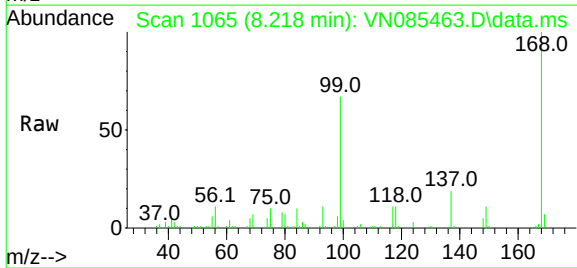
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

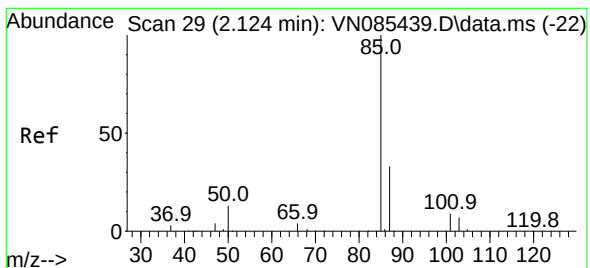
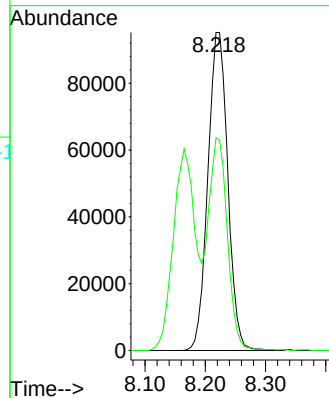
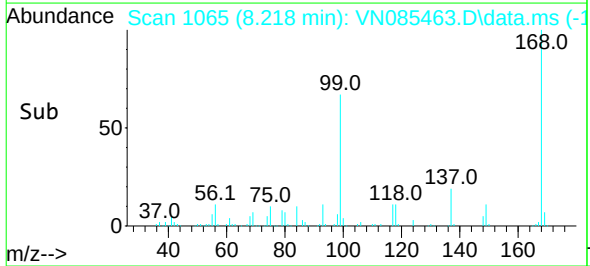
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 168 Resp: 218558
Ion Ratio Lower Upper
168 100
99 66.6 53.6 80.4

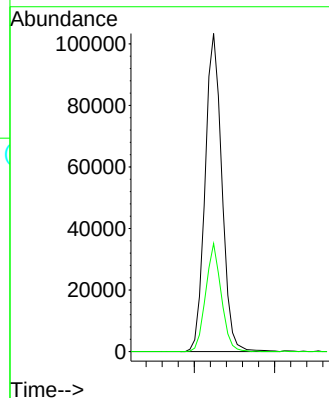
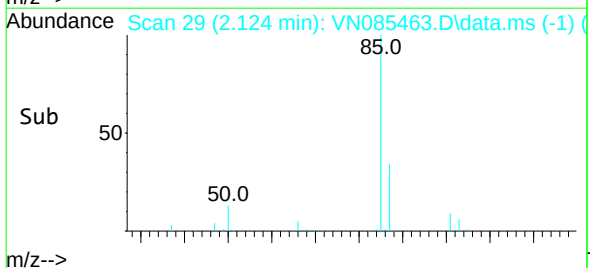
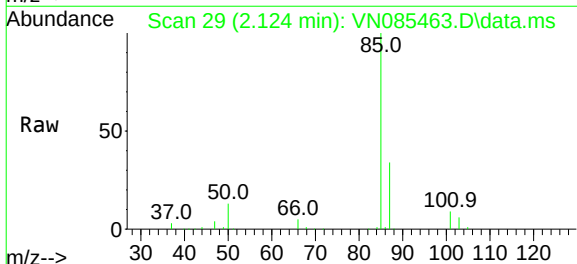
Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

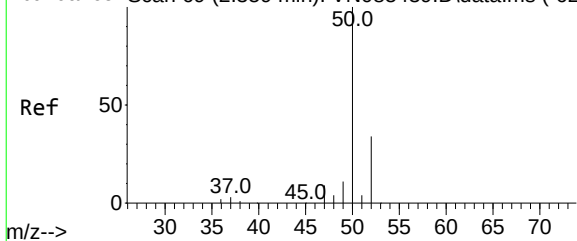


#2
Dichlorodifluoromethane
Concen: 50.545 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 85 Resp: 149573
Ion Ratio Lower Upper
85 100
87 34.0 16.7 50.1



Abundance Scan 69 (2.359 min): VN085439.D\data.ms (-62)



#3

Chloromethane

Concen: 47.865 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 50 Resp: 153360

Ion Ratio Lower Upper

50 100

52 32.1 27.0 40.6

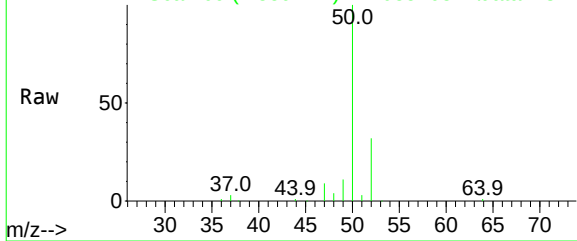
Manual Integrations

APPROVED

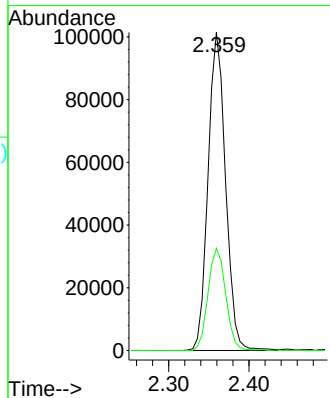
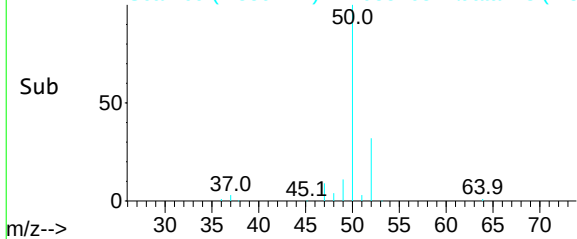
Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025

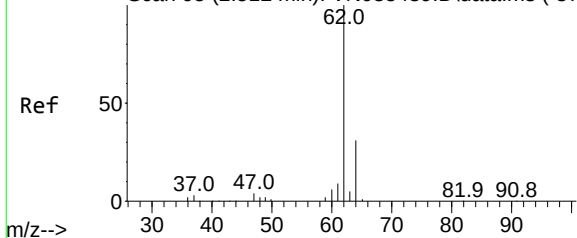
Abundance Scan 69 (2.359 min): VN085463.D\data.ms



Abundance Scan 69 (2.359 min): VN085463.D\data.ms (-18)



Abundance Scan 95 (2.512 min): VN085439.D\data.ms (-87)



#4

Vinyl Chloride

Concen: 48.017 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

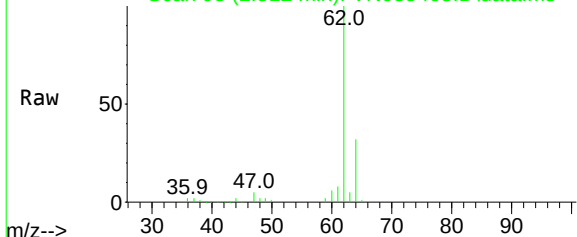
Tgt Ion: 62 Resp: 154638

Ion Ratio Lower Upper

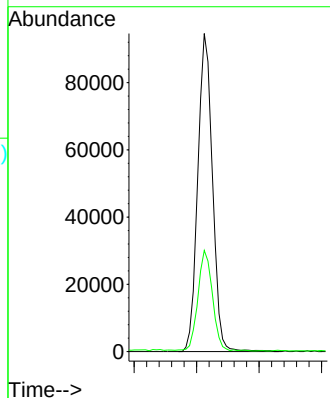
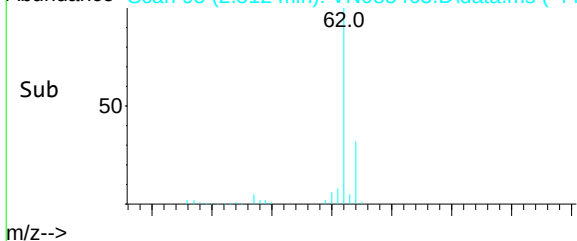
62 100

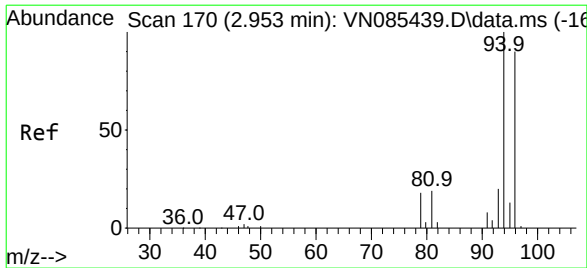
64 31.4 24.8 37.2

Abundance Scan 95 (2.512 min): VN085463.D\data.ms



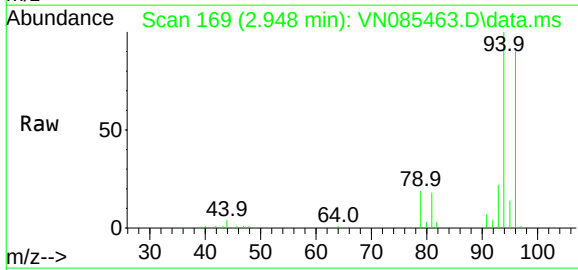
Abundance Scan 95 (2.512 min): VN085463.D\data.ms (-44)





#5
Bromomethane
Concen: 45.833 ug/l
RT: 2.948 min Scan# 16
Delta R.T. -0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

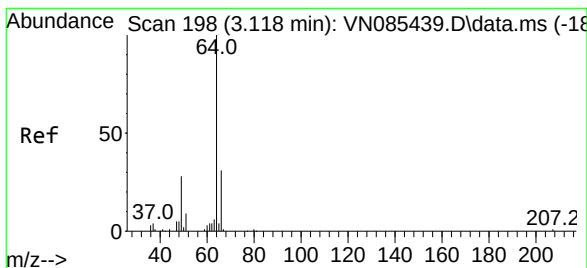
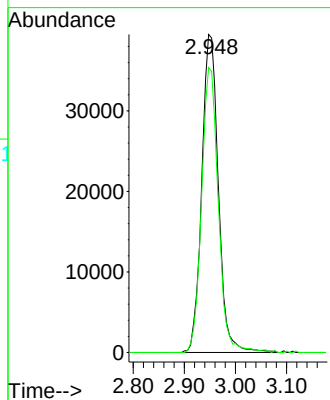
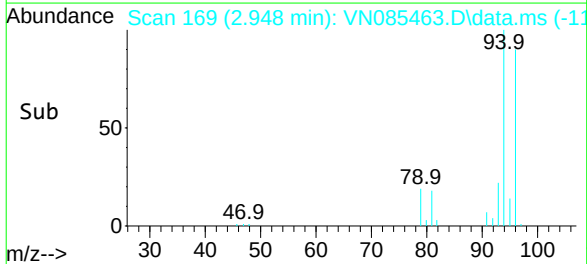
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 94 Resp: 89160
Ion Ratio Lower Upper
94 100
96 89.6 71.8 107.6

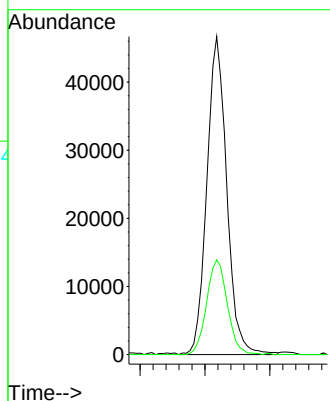
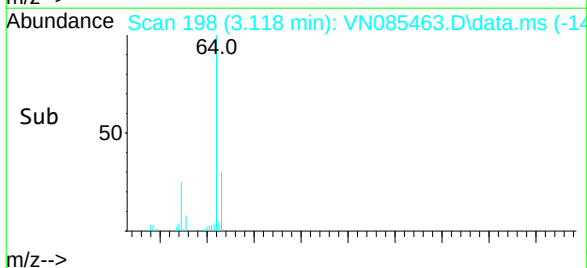
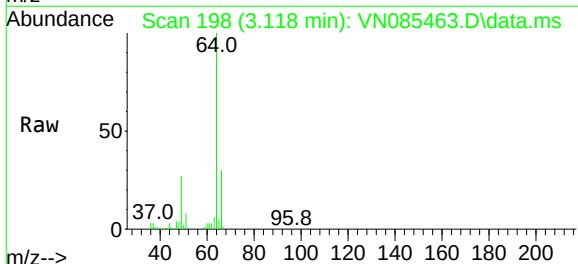
Manual Integrations
APPROVED

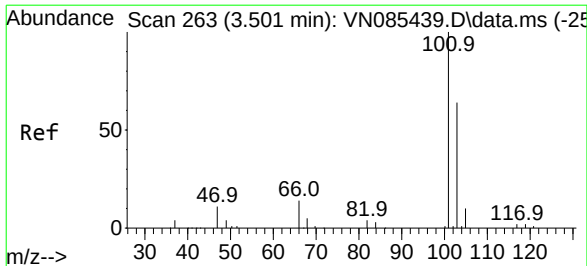
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#6
Chloroethane
Concen: 48.718 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

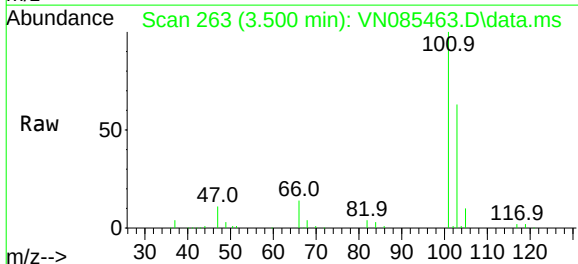
Tgt Ion: 64 Resp: 99471
Ion Ratio Lower Upper
64 100
66 29.8 24.6 36.8





#7
Trichlorofluoromethane
Concen: 50.203 ug/l
RT: 3.500 min Scan# 263
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

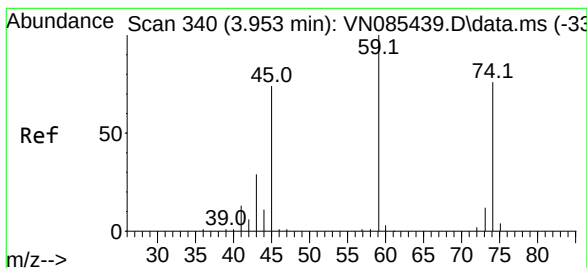
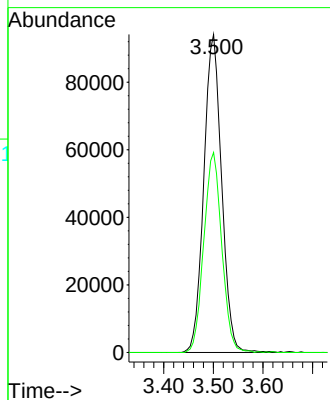
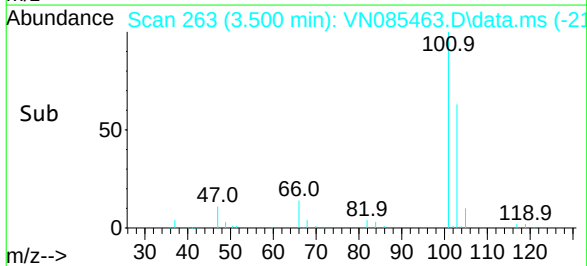
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 101 Resp: 234589
Ion Ratio Lower Upper
101 100
103 62.9 51.4 77.2

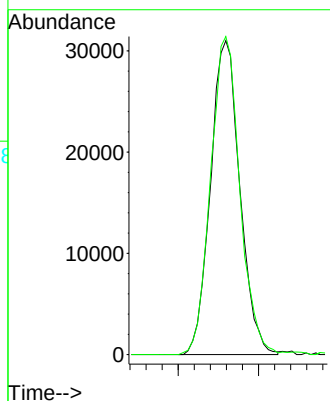
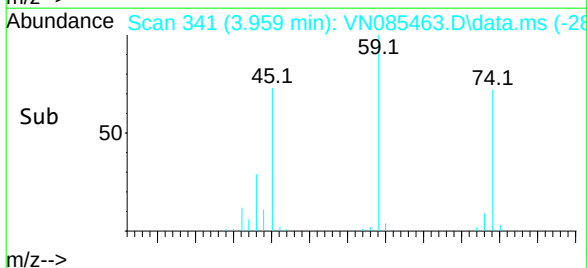
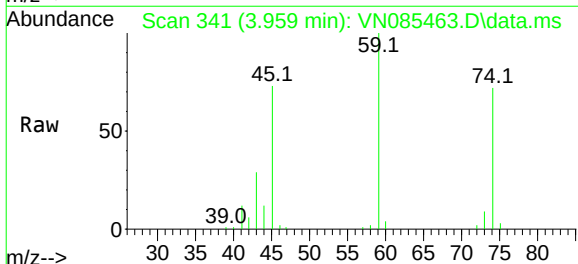
Manual Integrations
APPROVED

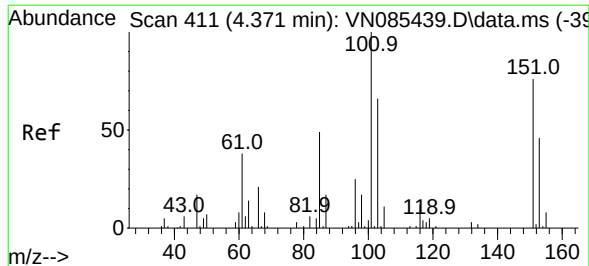
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#8
Diethyl Ether
Concen: 48.714 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

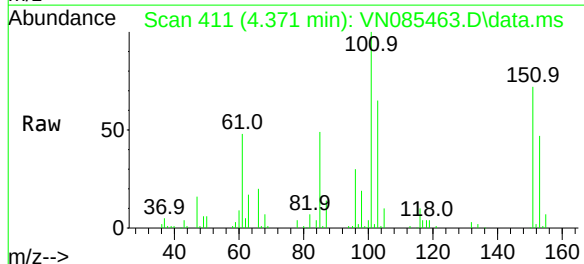
Tgt Ion: 74 Resp: 78639
Ion Ratio Lower Upper
74 100
45 100.9 49.7 149.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.730 ug/l
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

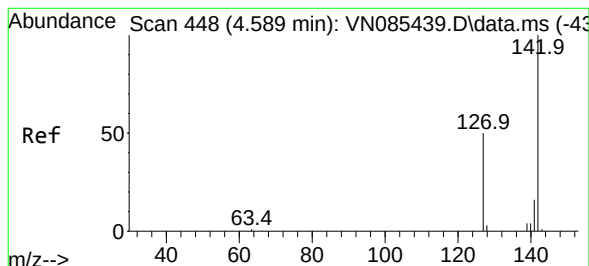
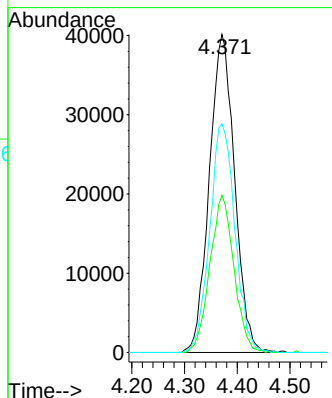
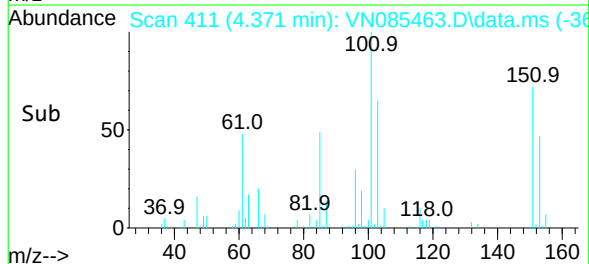
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



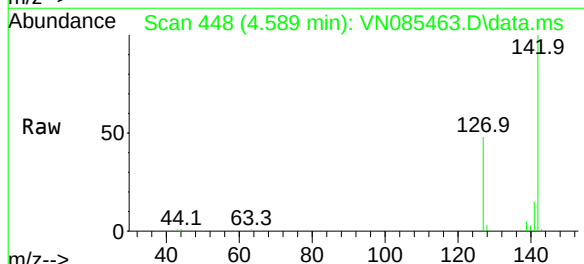
Tgt Ion:101 Resp: 133519
Ion Ratio Lower Upper
101 100
85 47.1 37.8 56.8
151 71.8 58.8 88.2

Manual Integrations
APPROVED

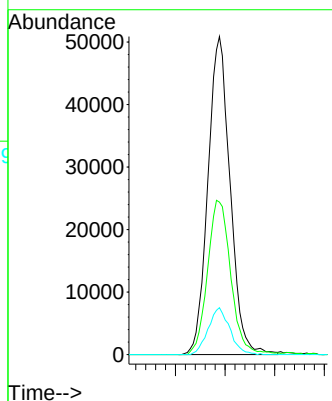
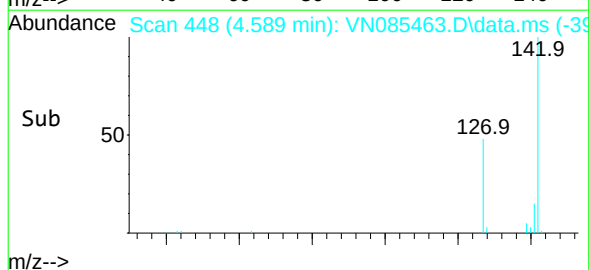
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

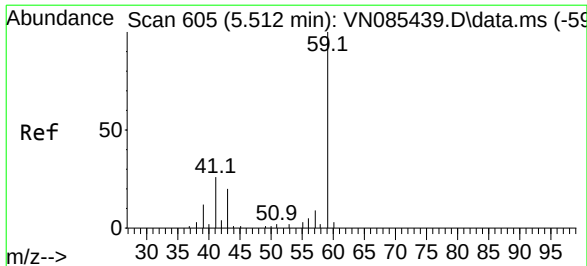


#10
Methyl Iodide
Concen: 52.443 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58



Tgt Ion:142 Resp: 158063
Ion Ratio Lower Upper
142 100
127 47.9 40.3 60.5
141 14.8 12.8 19.2





#11

Tert butyl alcohol

Concen: 266.406 ug/l

RT: 5.506 min Scan# 605

Delta R.T. -0.006 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 59 Resp: 107622

Ion Ratio Lower Upper

59 100

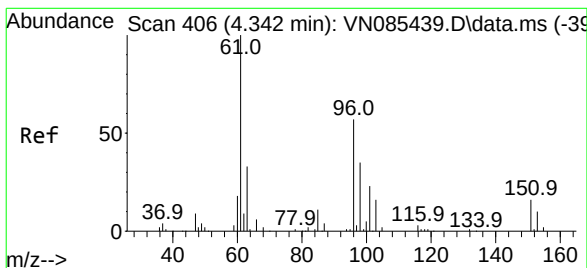
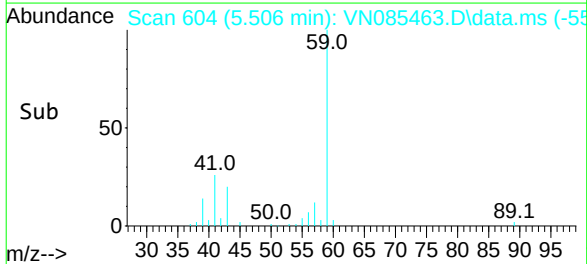
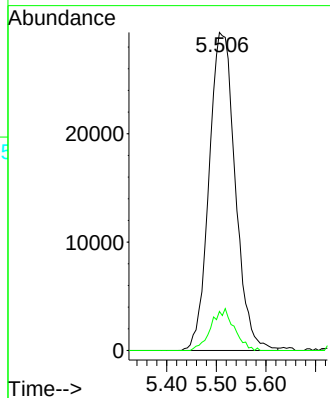
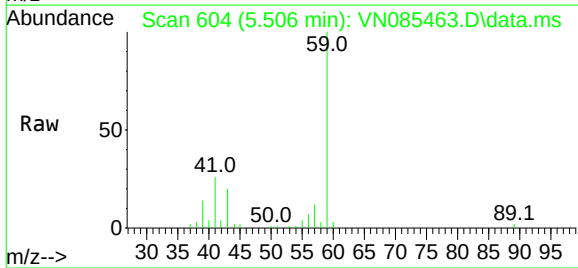
57 11.7 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#12

1,1-Dichloroethene

Concen: 51.524 ug/l

RT: 4.342 min Scan# 406

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

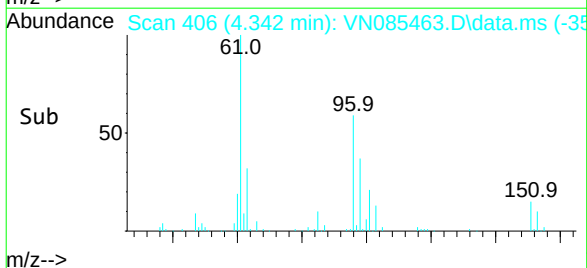
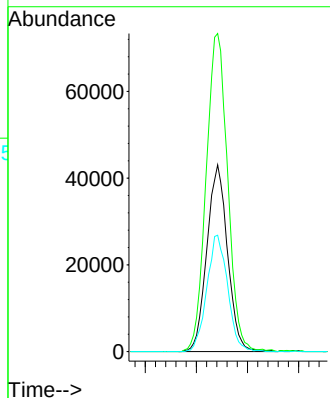
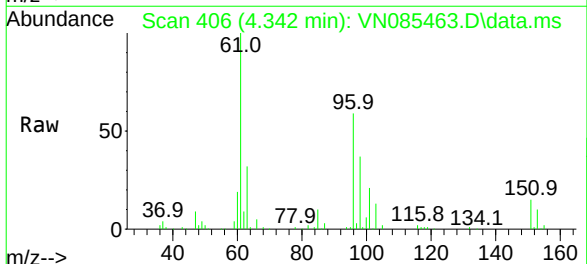
Tgt Ion: 96 Resp: 120856

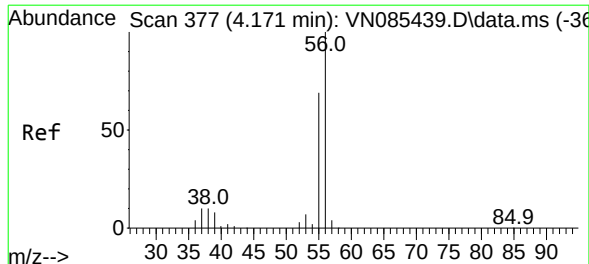
Ion Ratio Lower Upper

96 100

61 170.3 141.0 211.4

98 62.3 49.0 73.6





#13

Acrolein

Concen: 284.383 ug/l

RT: 4.171 min Scan# 377

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 56 Resp: 156827

Ion Ratio Lower Upper

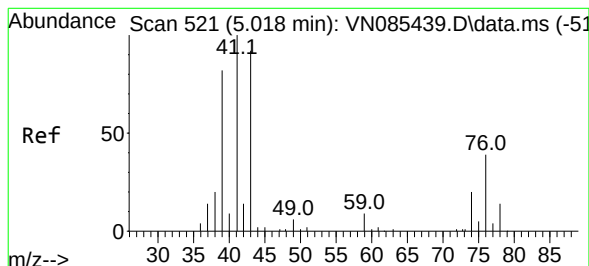
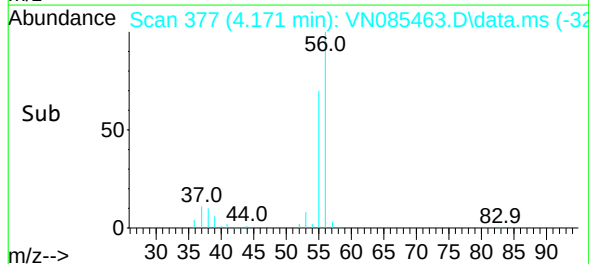
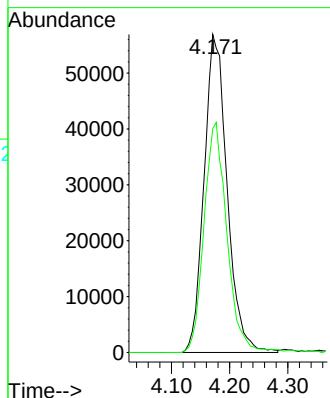
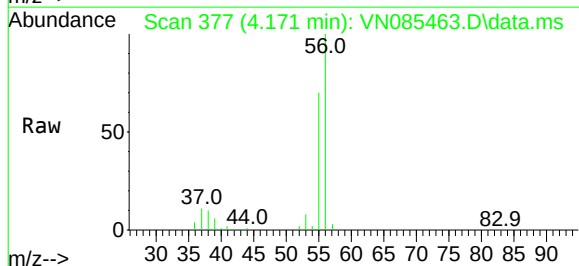
56 100

55 71.8 56.3 84.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025



#14

Allyl chloride

Concen: 51.384 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

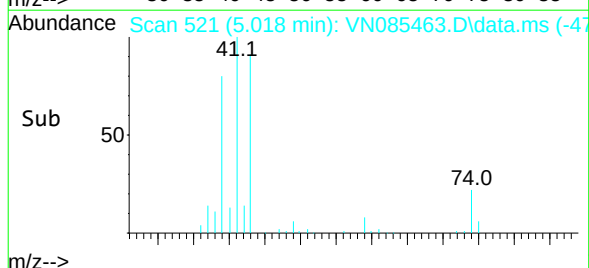
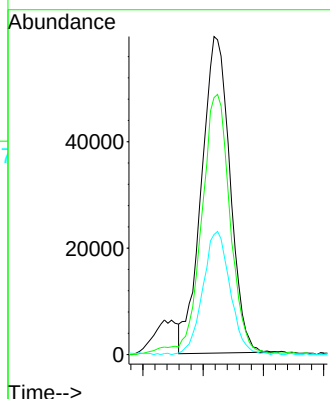
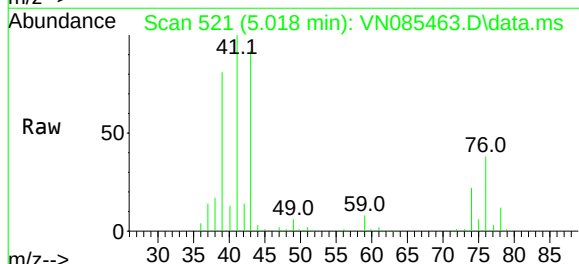
Tgt Ion: 41 Resp: 195577

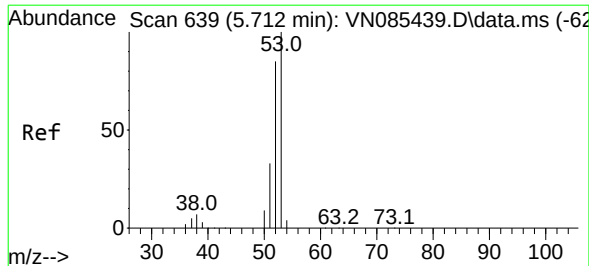
Ion Ratio Lower Upper

41 100

39 82.9 64.4 96.6

76 37.2 30.5 45.7





#15

Acrylonitrile

Concen: 262.738 ug/l

RT: 5.718 min Scan# 64

Delta R.T. 0.006 min

Lab File: VN085463.D

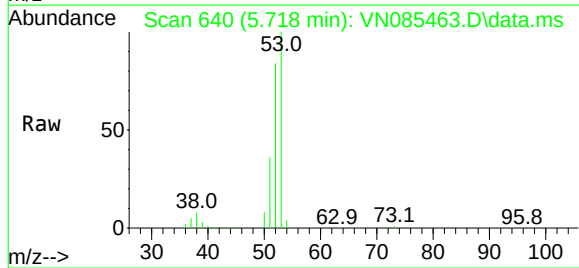
Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

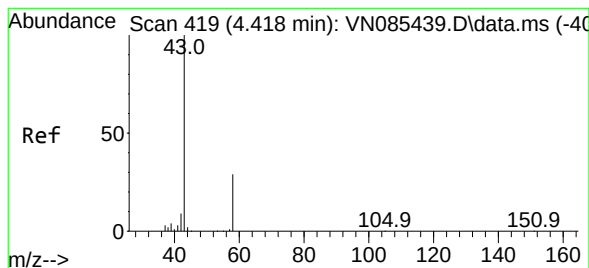
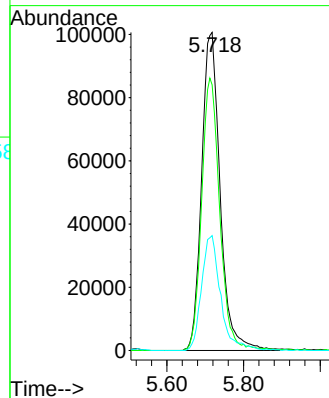
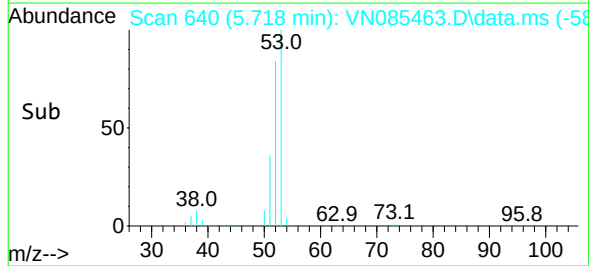
VSTDCCC050EC



Tgt Ion:	53	Resp:	337135
Ion	Ratio	Lower	Upper
53	100		
52	84.0	65.5	98.3
51	37.1	29.8	44.8

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#16

Acetone

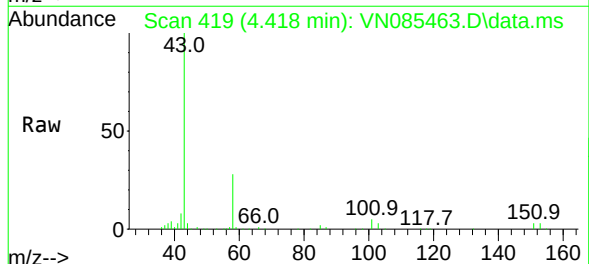
Concen: 251.190 ug/l

RT: 4.418 min Scan# 419

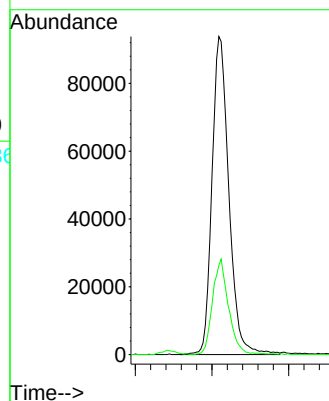
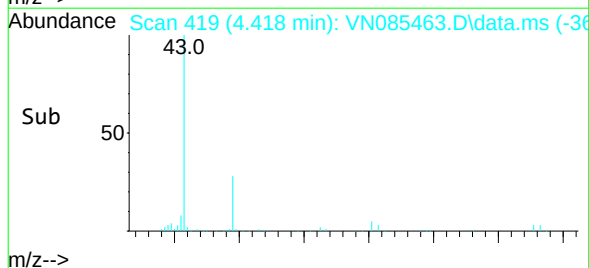
Delta R.T. -0.000 min

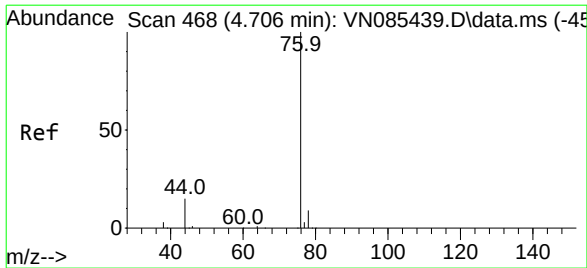
Lab File: VN085463.D

Acq: 15 Jan 2025 15:58



Tgt Ion:	43	Resp:	286337
Ion	Ratio	Lower	Upper
43	100		
58	27.9	23.8	35.6





#17

Carbon Disulfide

Concen: 46.862 ug/l

RT: 4.712 min Scan# 468

Delta R.T. 0.006 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 76 Resp: 338441

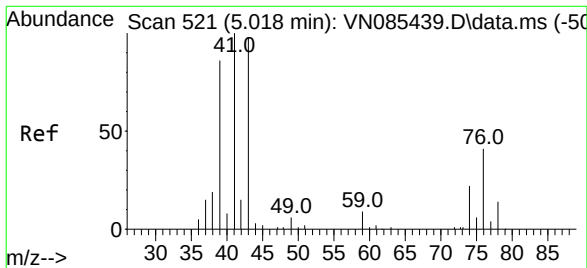
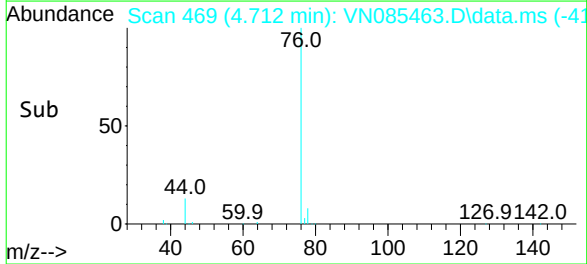
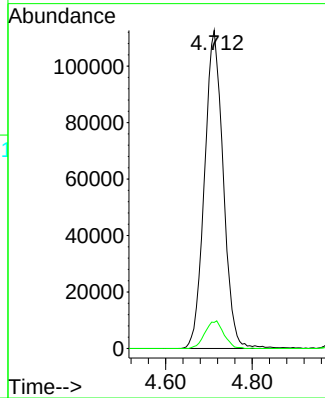
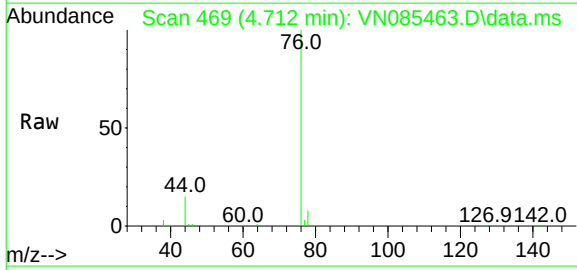
Ion Ratio Lower Upper

76 100

78 8.2 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#18

Methyl Acetate

Concen: 51.803 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085463.D

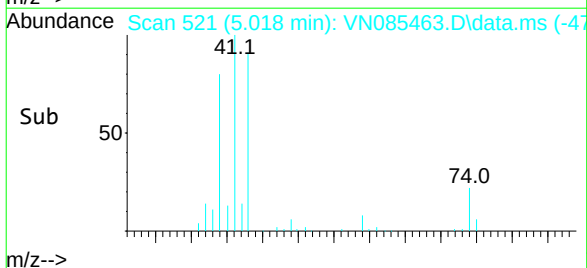
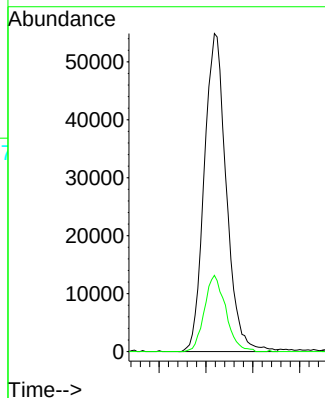
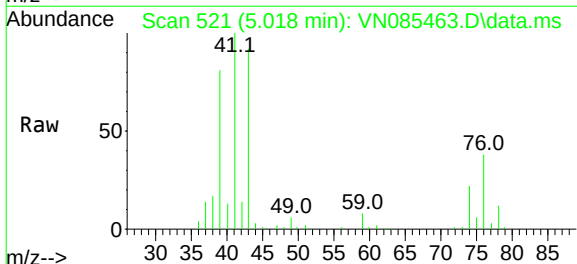
Acq: 15 Jan 2025 15:58

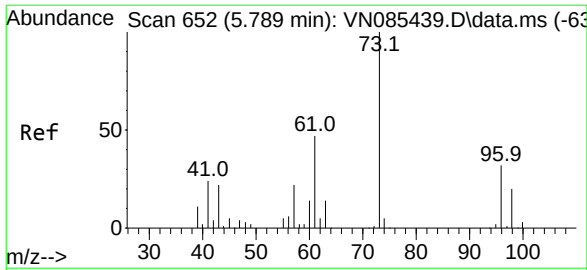
Tgt Ion: 43 Resp: 179563

Ion Ratio Lower Upper

43 100

74 23.2 18.6 28.0





#19

Methyl tert-butyl Ether

Concen: 55.672 ug/l

RT: 5.794 min Scan# 65

Delta R.T. 0.006 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 73 Resp: 424024

Ion Ratio Lower Upper

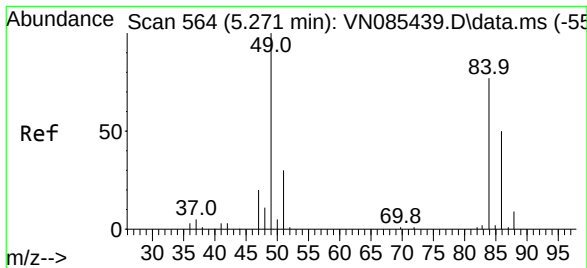
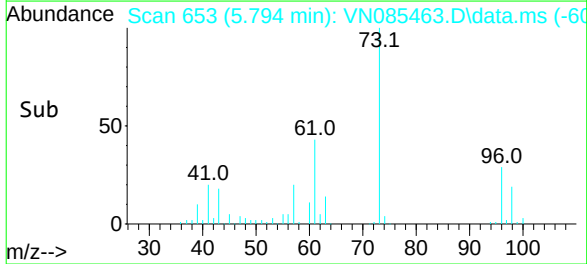
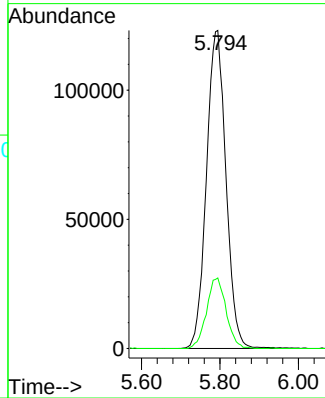
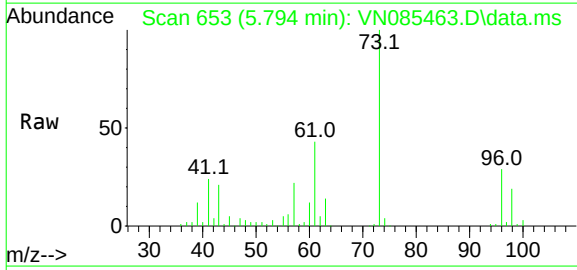
73 100

57 22.2 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025



#20

Methylene Chloride

Concen: 49.455 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Tgt Ion: 84 Resp: 139560

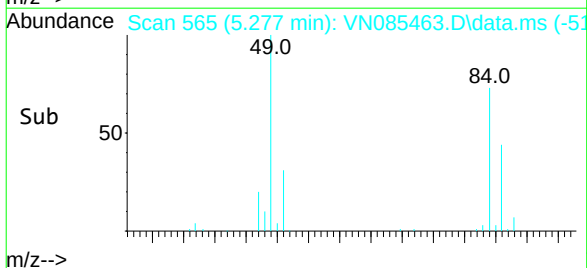
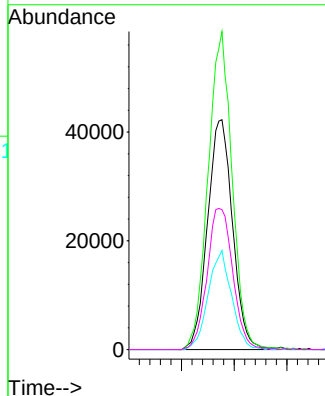
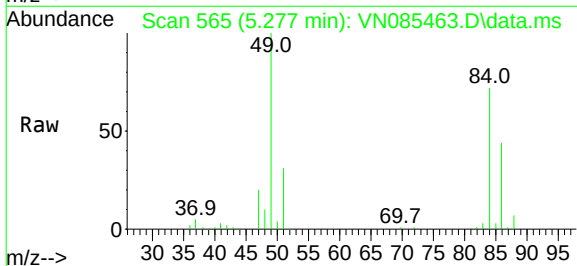
Ion Ratio Lower Upper

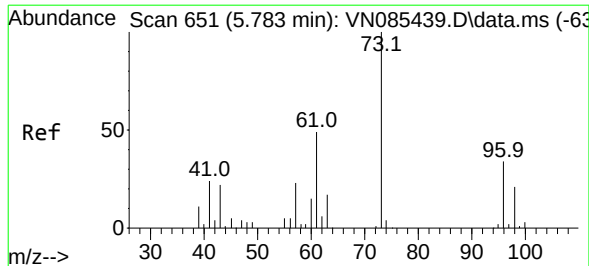
84 100

49 138.4 104.1 156.1

51 43.1 31.0 46.4

86 60.8 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 50.805 ug/l

RT: 5.783 min Scan# 651

Delta R.T. -0.000 min

Lab File: VN085463.D

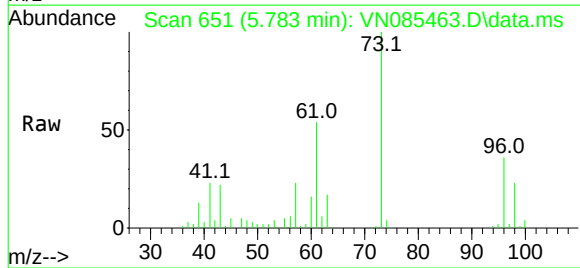
Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC



Tgt Ion: 96 Resp: 127358

Ion Ratio Lower Upper

96 100

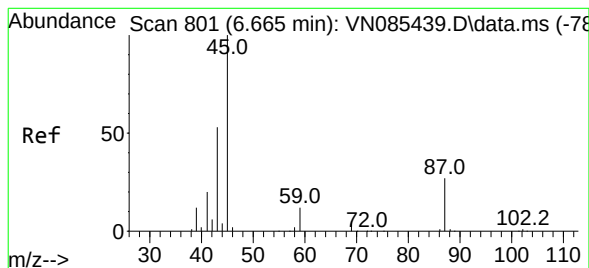
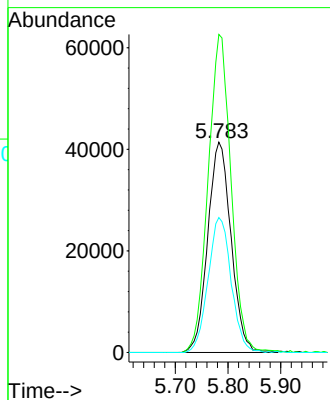
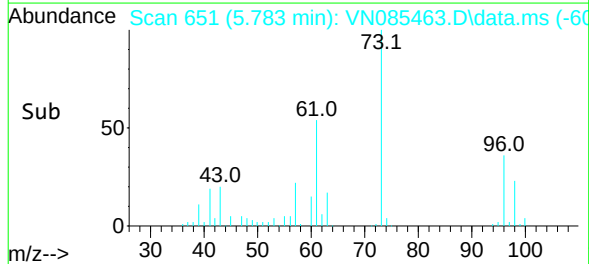
61 151.2 115.7 173.5

98 64.1 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#22

Diisopropyl ether

Concen: 55.286 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Tgt Ion: 45 Resp: 467061

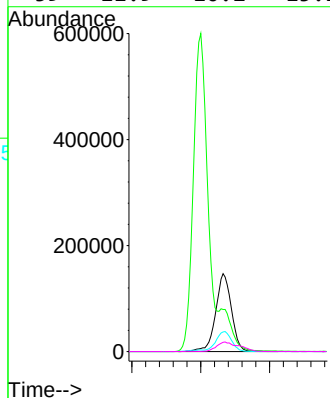
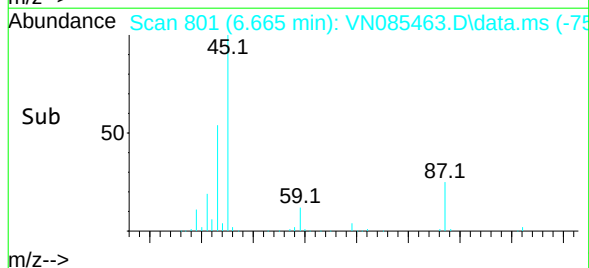
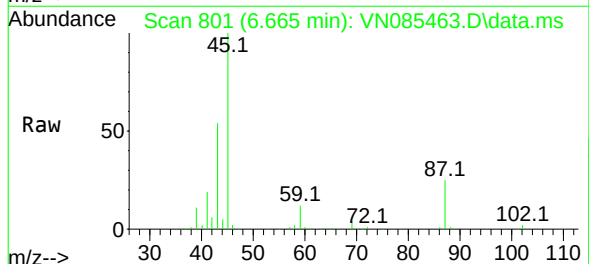
Ion Ratio Lower Upper

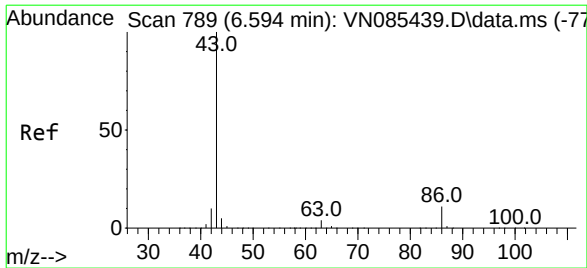
45 100

43 53.5 45.0 67.6

87 25.2 21.8 32.8

59 11.9 10.2 15.2





#23

Vinyl Acetate

Concen: 292.883 ug/l

RT: 6.600 min Scan# 790

Delta R.T. 0.006 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 1731604

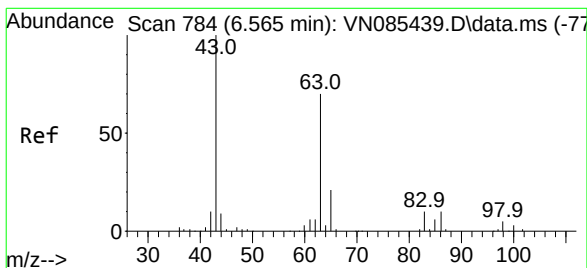
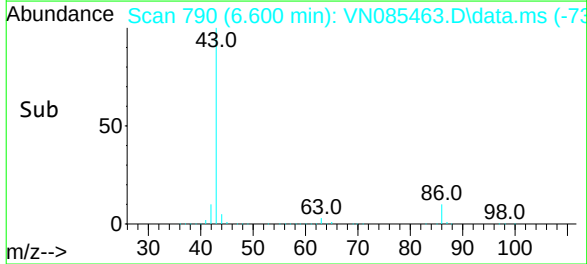
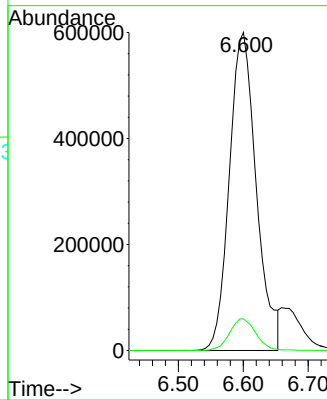
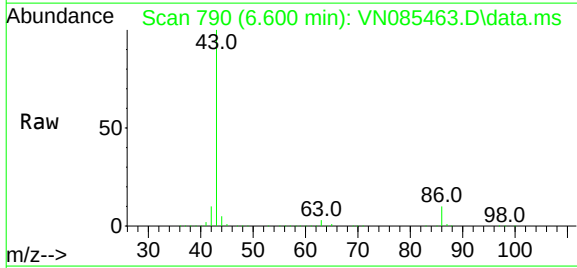
Ion Ratio Lower Upper

43 100

86 9.9 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#24

1,1-Dichloroethane

Concen: 51.287 ug/l

RT: 6.565 min Scan# 784

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

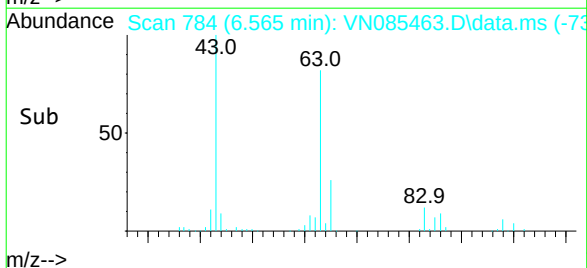
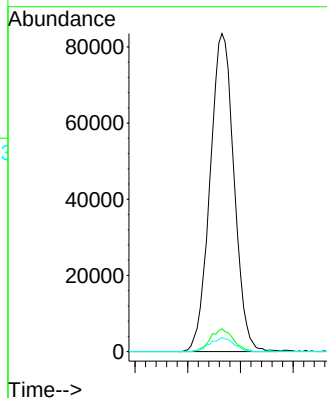
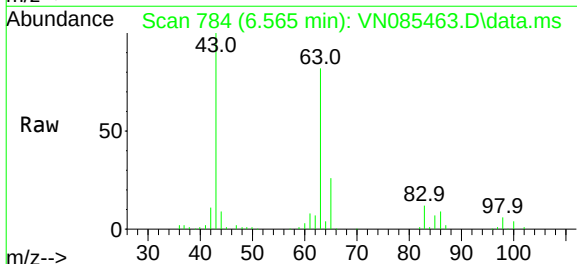
Tgt Ion: 63 Resp: 264195

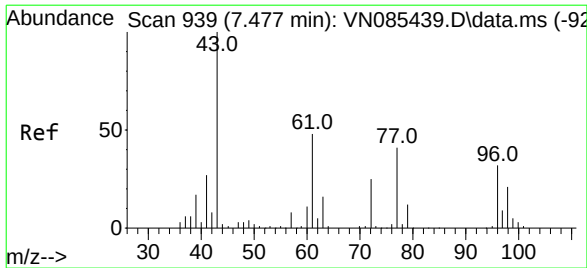
Ion Ratio Lower Upper

63 100

98 7.2 3.3 9.8

100 4.5 2.0 6.0





#25

2-Butanone

Concen: 269.467 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 452029

Ion Ratio Lower Upper

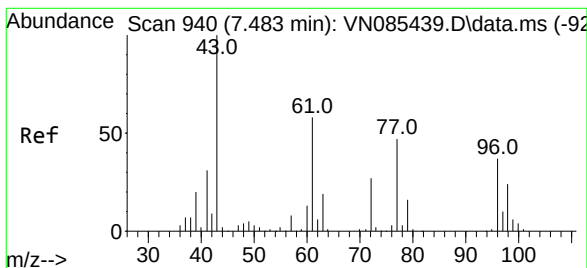
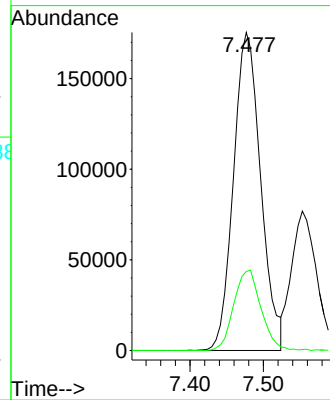
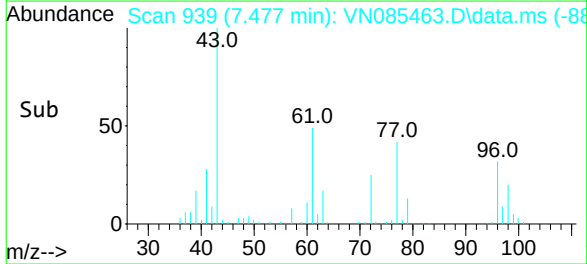
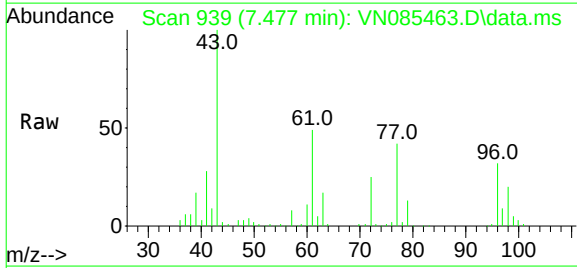
43 100

72 24.8 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#26

2,2-Dichloropropane

Concen: 56.857 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085463.D

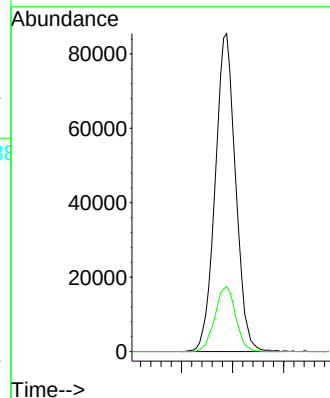
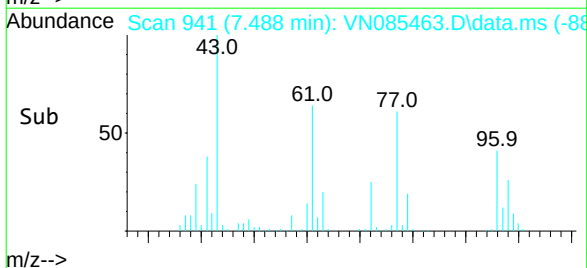
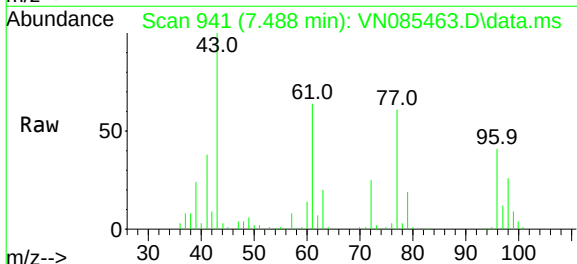
Acq: 15 Jan 2025 15:58

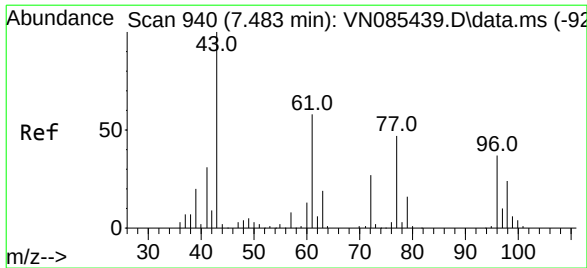
Tgt Ion: 77 Resp: 236796

Ion Ratio Lower Upper

77 100

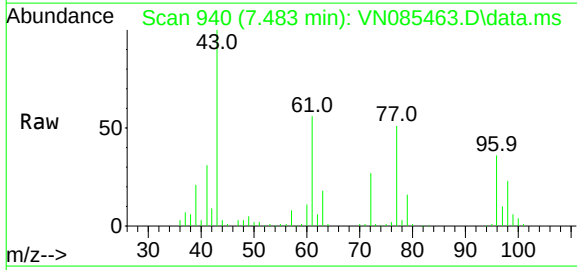
97 20.8 10.7 32.1





#27
cis-1,2-Dichloroethene
Concen: 52.557 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

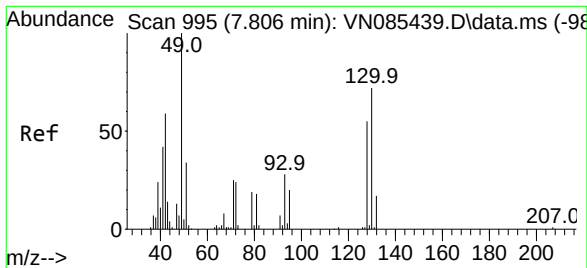
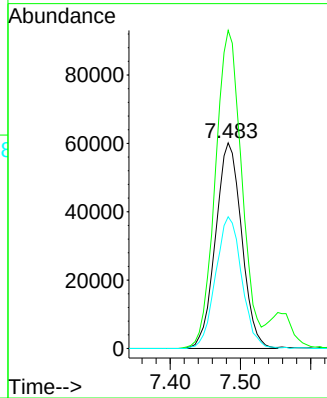
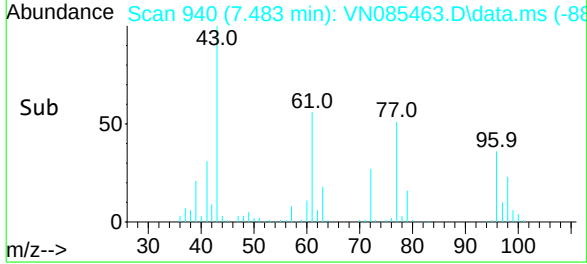
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 96 Resp: 155179
Ion Ratio Lower Upper
96 100
61 156.3 0.0 311.8
98 64.4 0.0 126.0

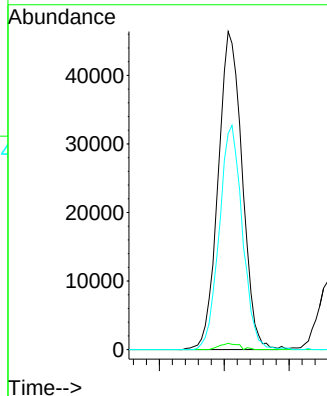
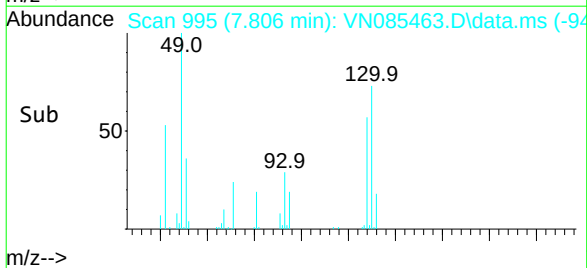
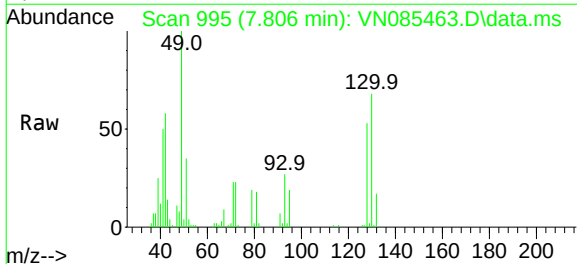
Manual Integrations
APPROVED

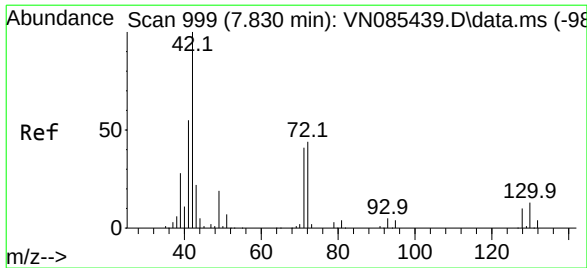
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#28
Bromochloromethane
Concen: 49.837 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 49 Resp: 119440
Ion Ratio Lower Upper
49 100
129 1.6 0.0 4.4
130 68.0 55.0 82.4





#29

Tetrahydrofuran

Concen: 284.562 ug/l

RT: 7.835 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 42 Resp: 302642

Ion Ratio Lower Upper

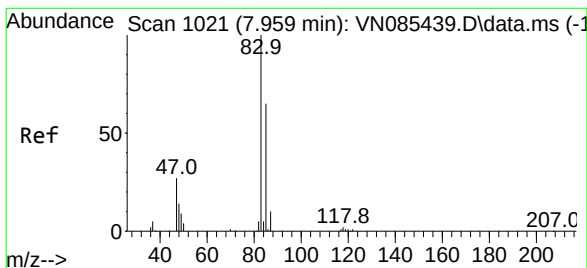
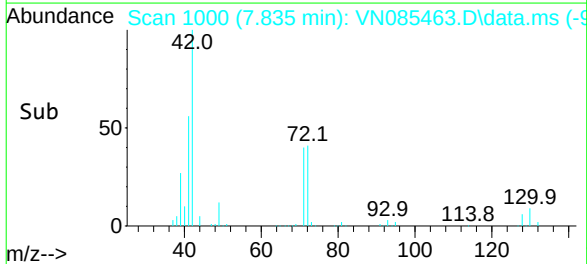
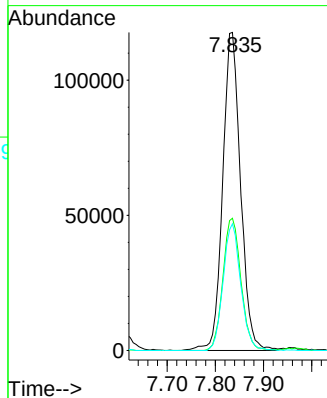
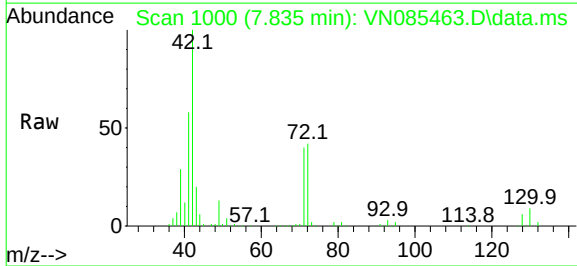
42 100

72 42.0 34.2 51.2

71 39.2 32.5 48.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#30

Chloroform

Concen: 51.054 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085463.D

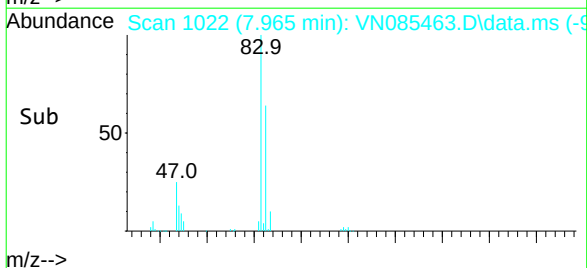
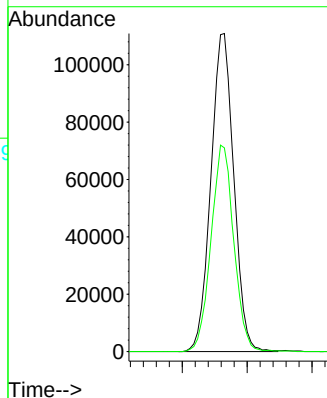
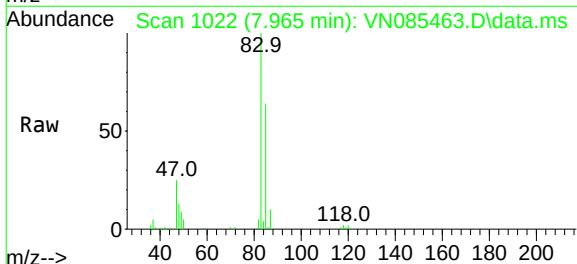
Acq: 15 Jan 2025 15:58

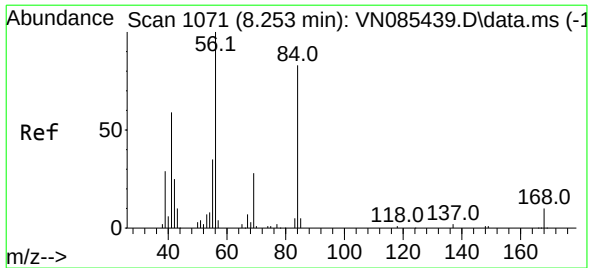
Tgt Ion: 83 Resp: 271813

Ion Ratio Lower Upper

83 100

85 64.1 51.8 77.6





#31

Cyclohexane

Concen: 48.757 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 56 Resp: 218304

Ion Ratio Lower Upper

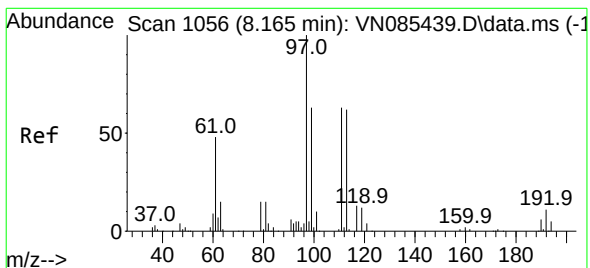
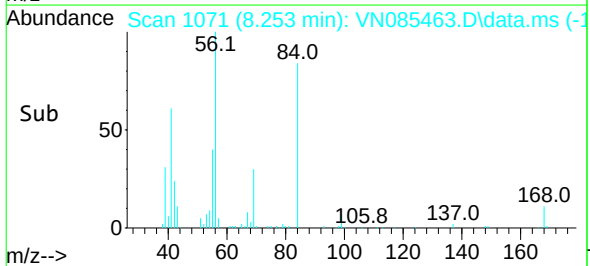
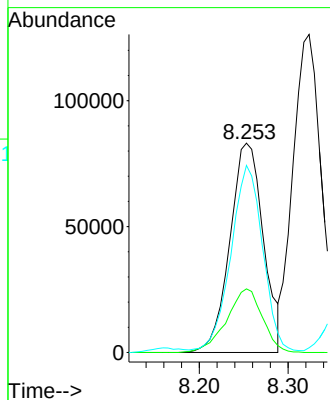
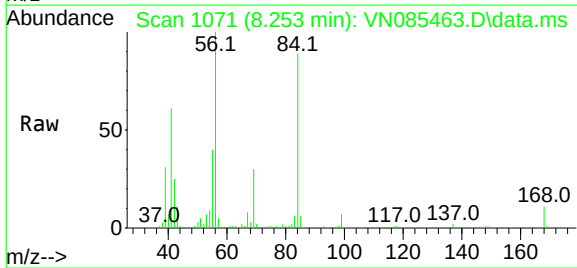
56 100

69 30.4 22.2 33.4

84 87.7 66.4 99.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#32

1,1,1-Trichloroethane

Concen: 50.757 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

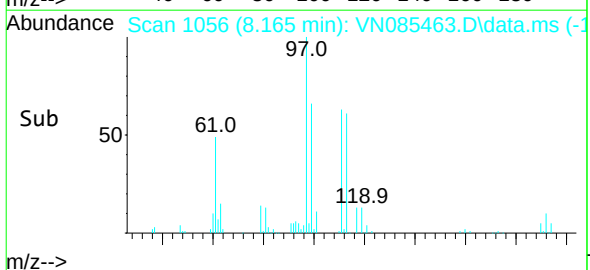
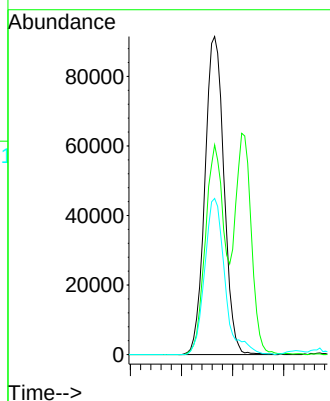
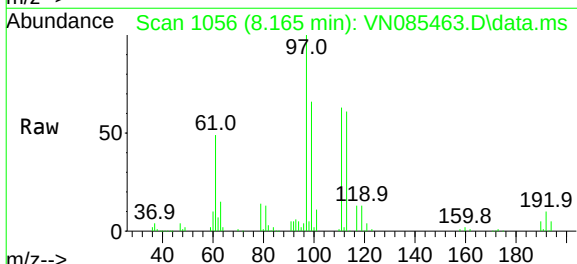
Tgt Ion: 97 Resp: 237039

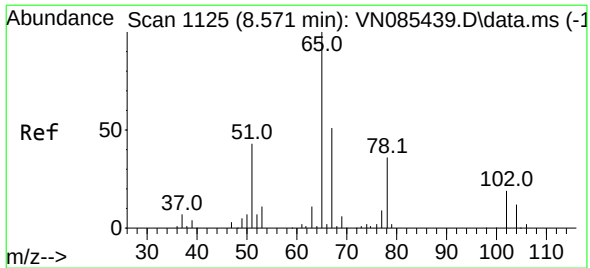
Ion Ratio Lower Upper

97 100

99 65.5 49.8 74.6

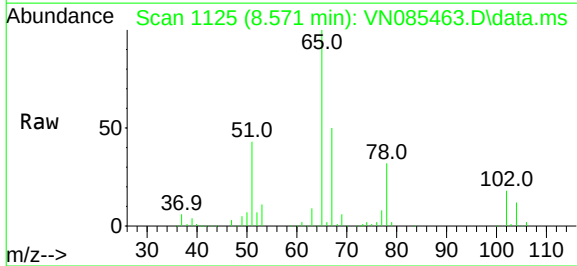
61 52.1 41.4 62.2





#33
1,2-Dichloroethane-d4
Concen: 52.114 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

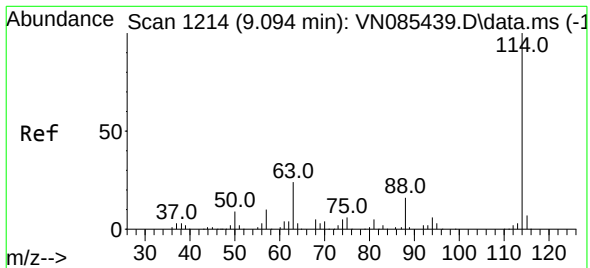
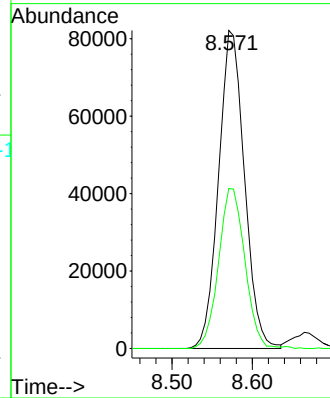
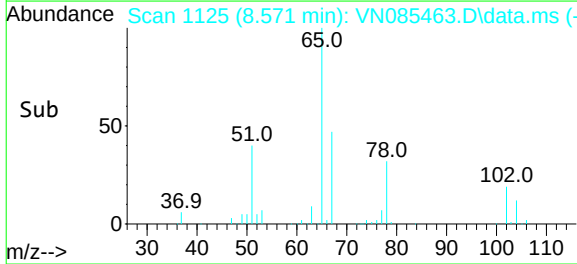
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 65 Resp: 183857
Ion Ratio Lower Upper
65 100
67 51.2 0.0 101.6

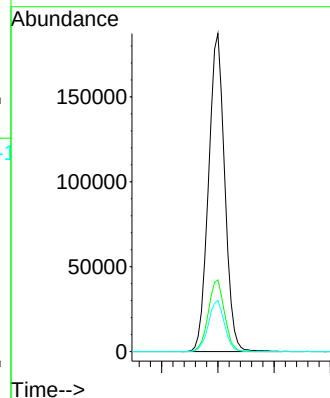
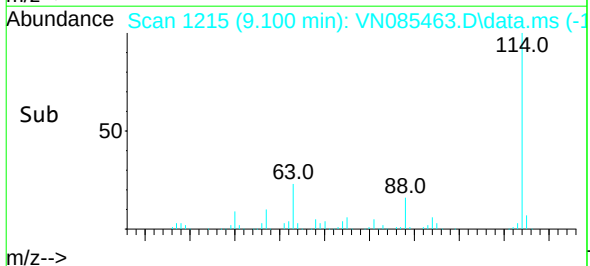
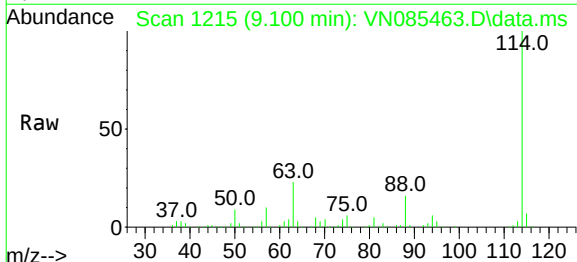
Manual Integrations
APPROVED

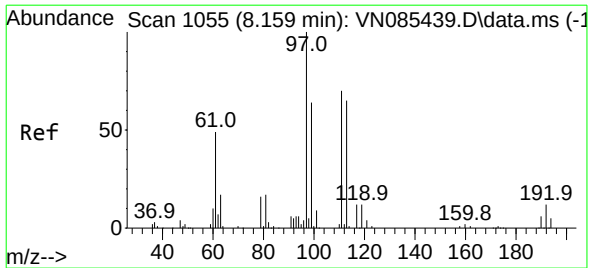
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:114 Resp: 374640
Ion Ratio Lower Upper
114 100
63 22.5 0.0 47.6
88 16.1 0.0 32.6





#35

Dibromofluoromethane

Concen: 51.677 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 113 Resp: 134312

Ion Ratio Lower Upper

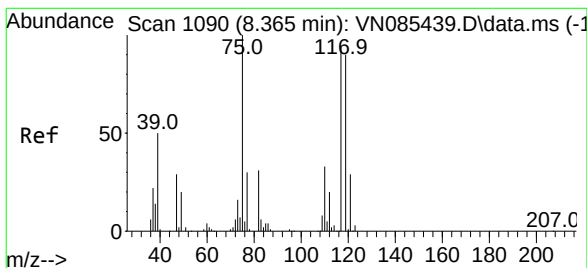
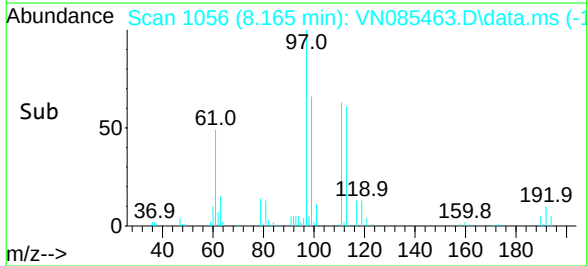
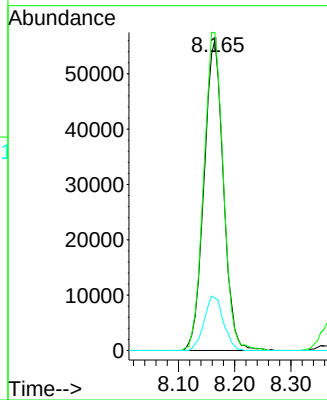
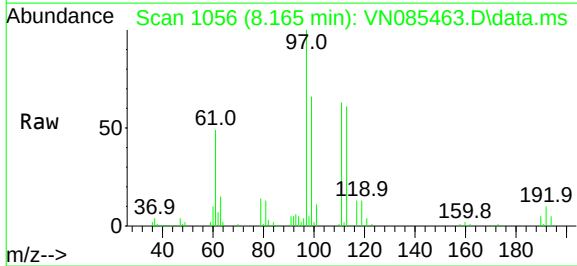
113 100

111 103.3 82.7 124.1

192 17.4 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#36

1,1-Dichloropropene

Concen: 50.562 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

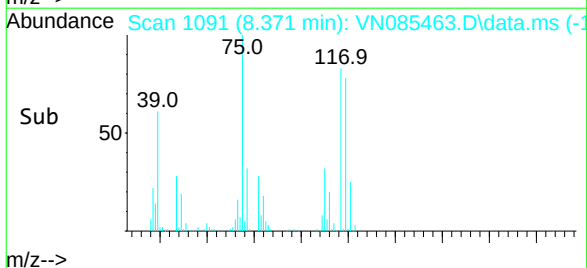
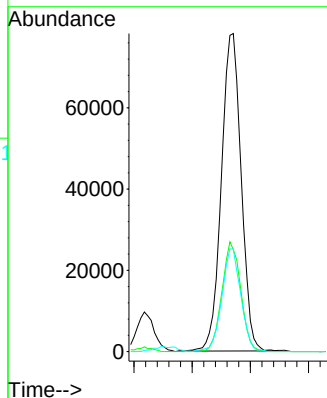
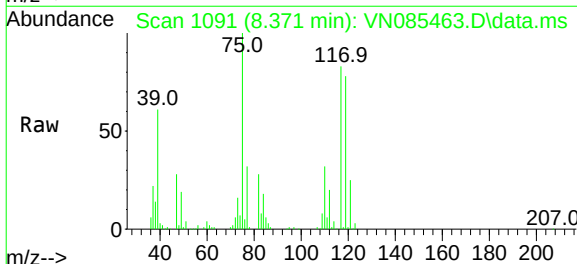
Tgt Ion: 75 Resp: 184438

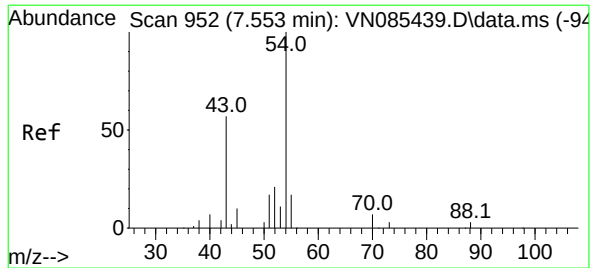
Ion Ratio Lower Upper

75 100

110 32.8 16.5 49.5

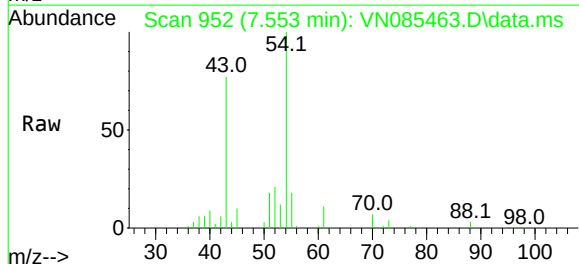
77 31.2 24.4 36.6





#37
Ethyl Acetate
Concen: 50.810 ug/l
RT: 7.553 min Scan# 952
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

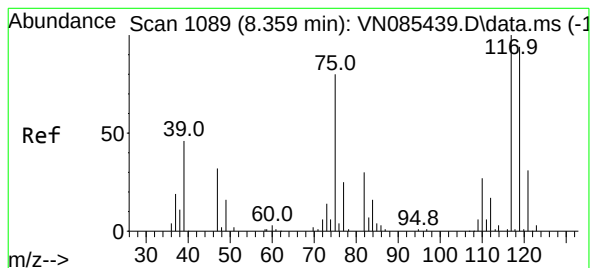
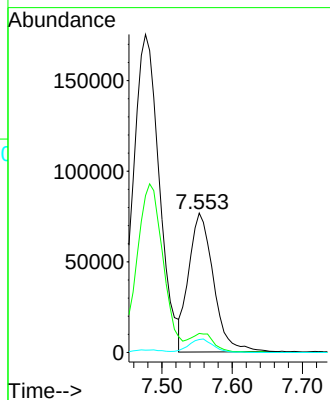
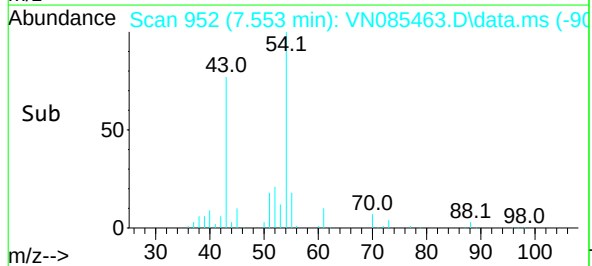
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 43 Resp: 187078
Ion Ratio Lower Upper
43 100
61 12.1 10.9 16.3
70 9.6 7.5 11.3

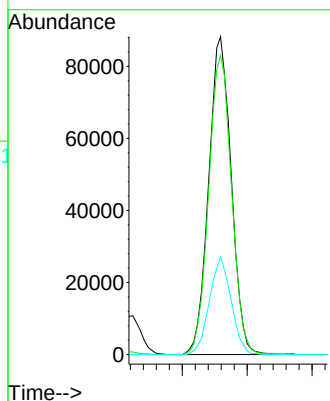
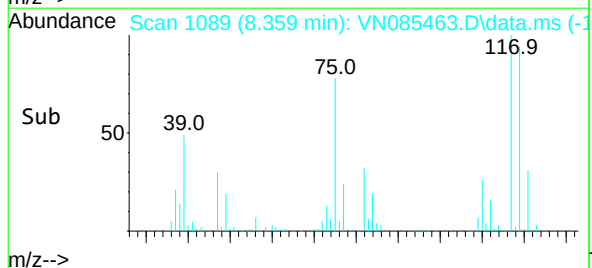
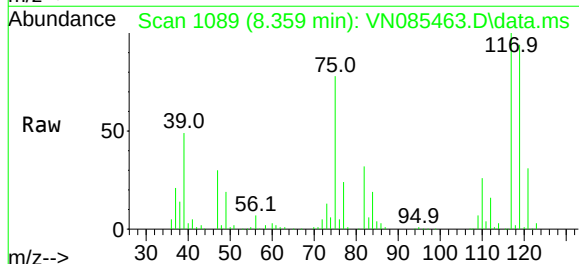
Manual Integrations
APPROVED

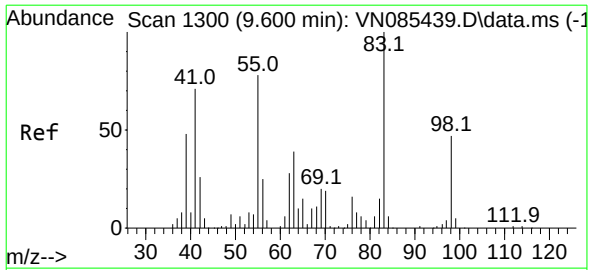
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#38
Carbon Tetrachloride
Concen: 50.991 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:117 Resp: 212942
Ion Ratio Lower Upper
117 100
119 93.8 75.4 113.2
121 30.8 24.6 37.0





#39

Methylcyclohexane

Concen: 57.436 ug/l

RT: 9.594 min Scan# 12

Delta R.T. -0.006 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

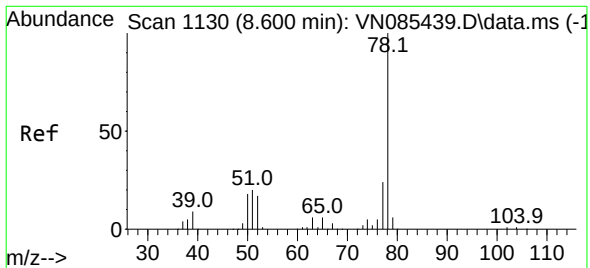
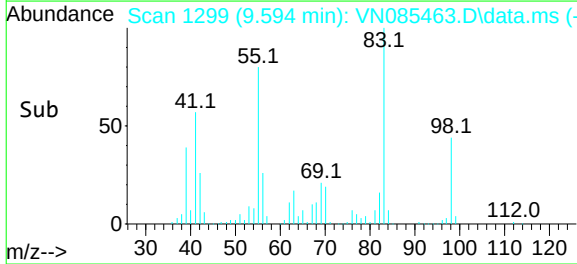
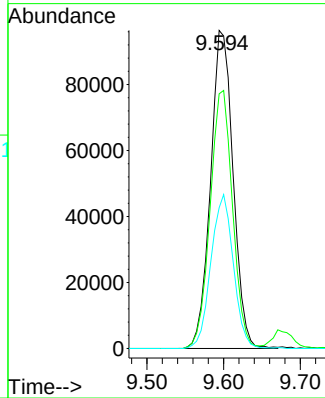
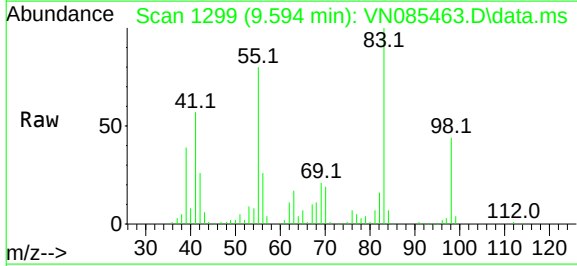
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	83	Resp:	196879
Ion	Ratio	Lower	Upper
83	100		
55	80.1	62.6	94.0
98	44.2	37.7	56.5

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#40

Benzene

Concen: 51.821 ug/l

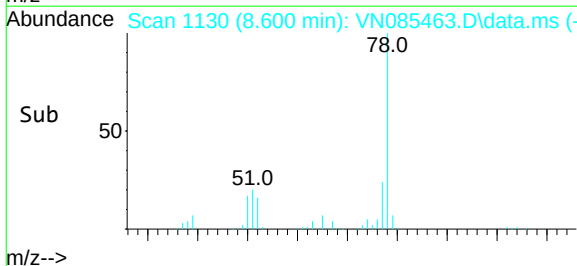
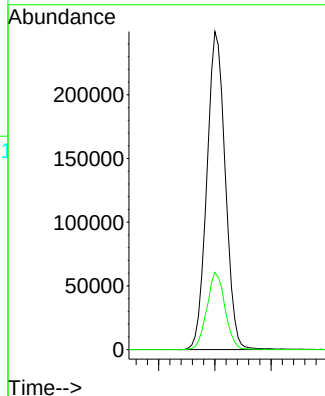
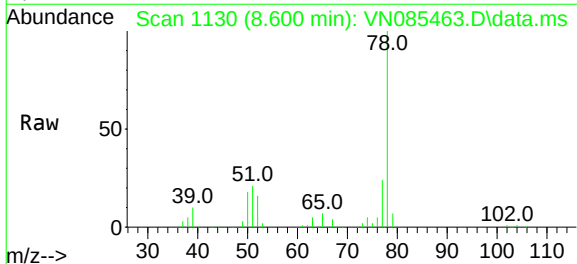
RT: 8.600 min Scan# 1130

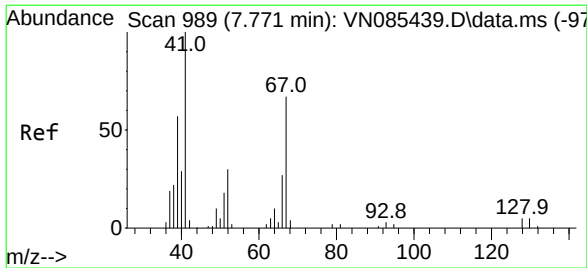
Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Tgt Ion:	78	Resp:	567975
Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.0	28.6





#41

Methacrylonitrile

Concen: 54.981 ug/l

RT: 7.771 min Scan# 989

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 41 Resp: 105319

Ion Ratio Lower Upper

41 100

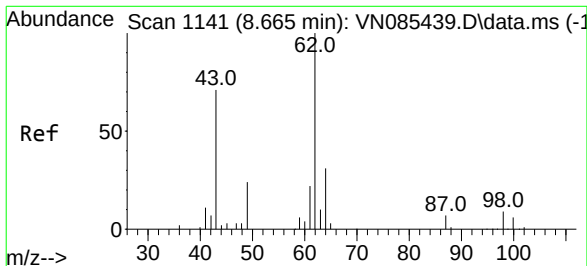
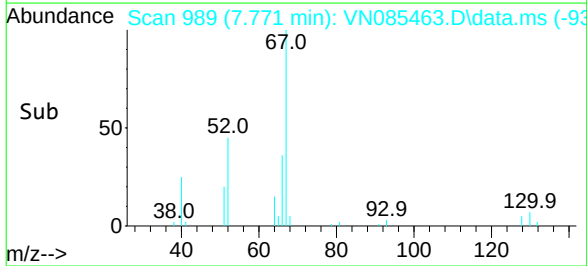
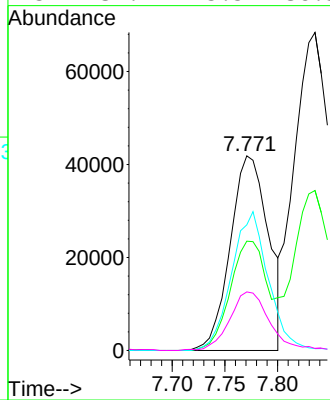
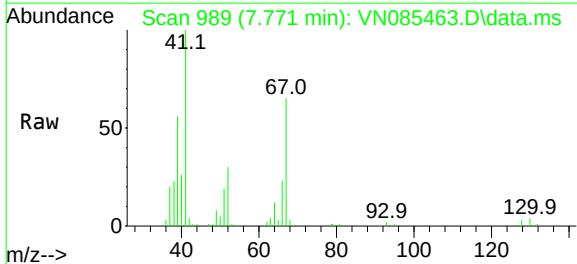
39 56.3 46.0 69.0

67 68.8 57.4 86.2

52 32.1 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#42

1,2-Dichloroethane

Concen: 51.629 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN085463.D

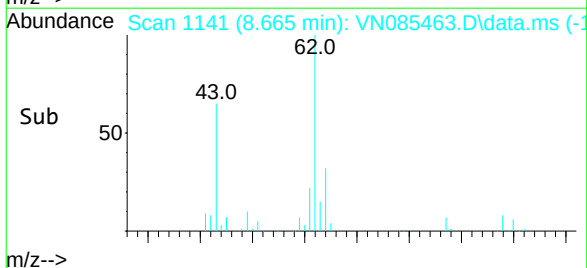
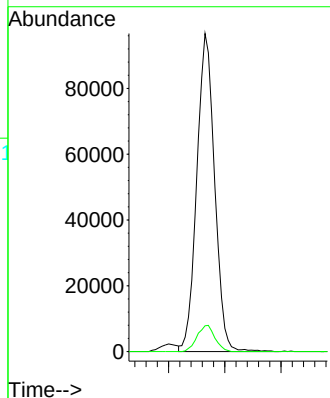
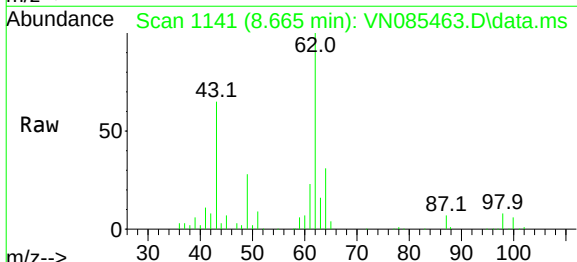
Acq: 15 Jan 2025 15:58

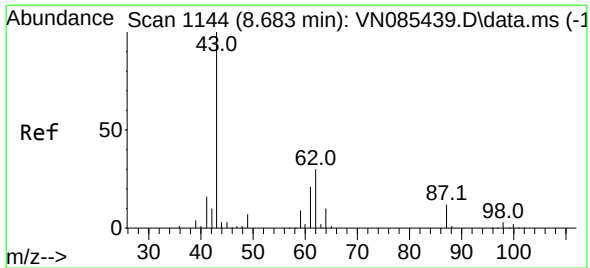
Tgt Ion: 62 Resp: 213125

Ion Ratio Lower Upper

62 100

98 8.2 0.0 17.0





#43

Isopropyl Acetate

Concen: 57.599 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 339818

Ion Ratio Lower Upper

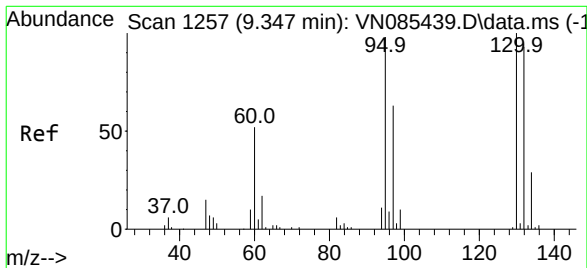
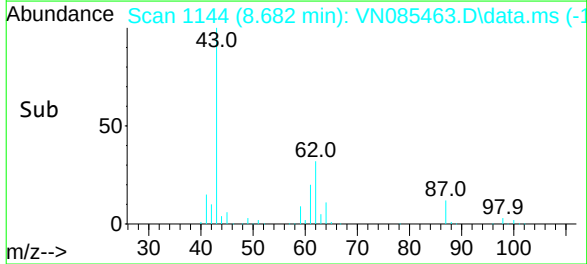
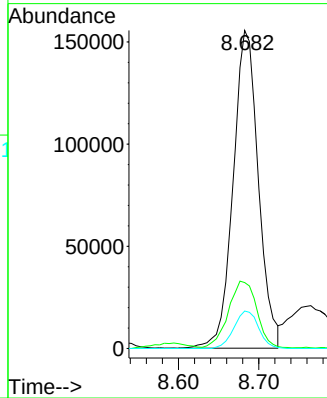
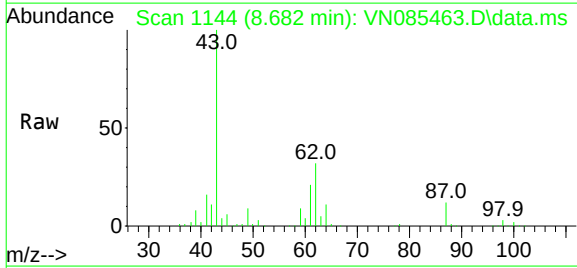
43 100

61 23.7 20.7 31.1

87 11.5 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#44

Trichloroethene

Concen: 49.260 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.000 min

Lab File: VN085463.D

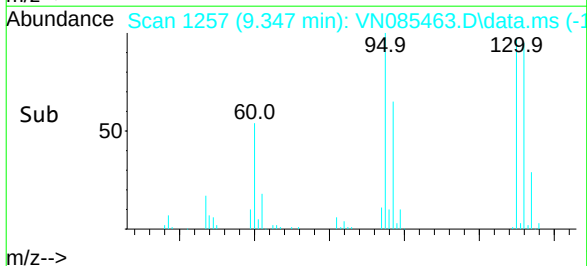
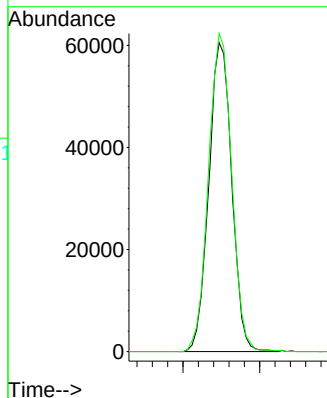
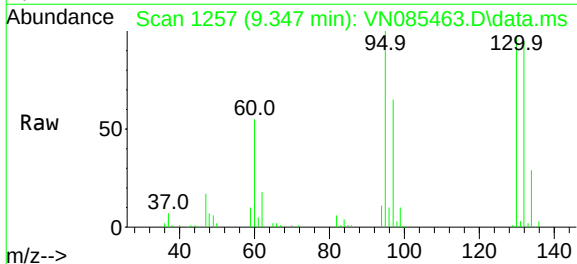
Acq: 15 Jan 2025 15:58

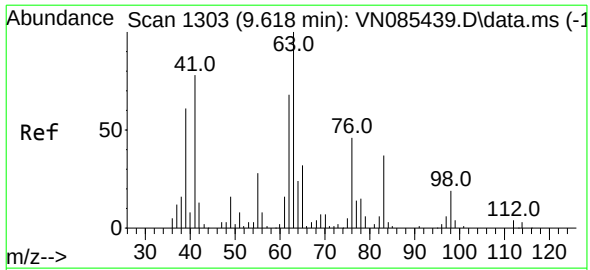
Tgt Ion:130 Resp: 125677

Ion Ratio Lower Upper

130 100

95 103.0 0.0 195.8





#45

1,2-Dichloropropane

Concen: 51.043 ug/l

RT: 9.618 min Scan# 13

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 63 Resp: 142897

Ion Ratio Lower Upper

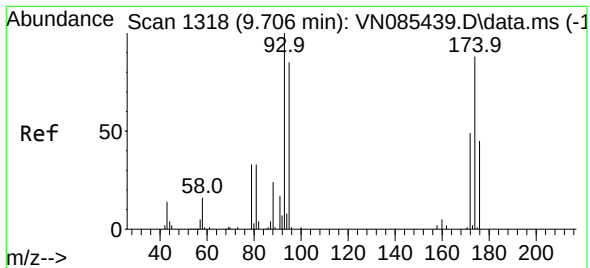
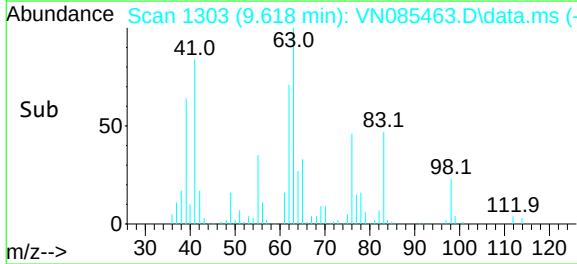
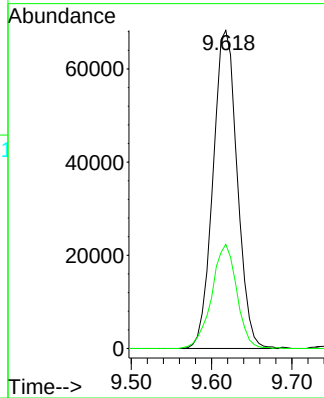
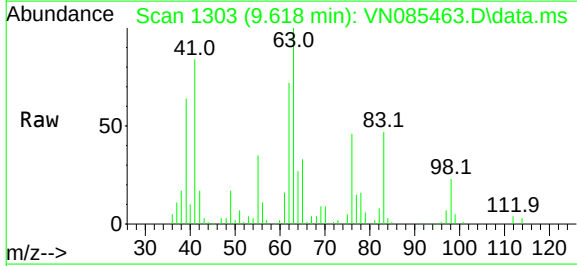
63 100

65 32.7 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#46

Dibromomethane

Concen: 49.750 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

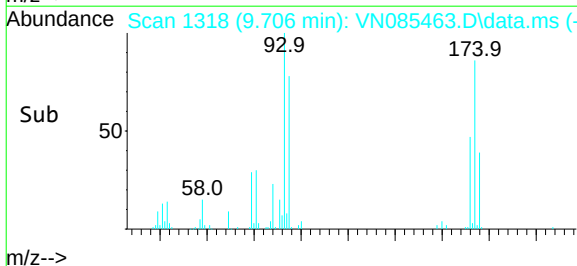
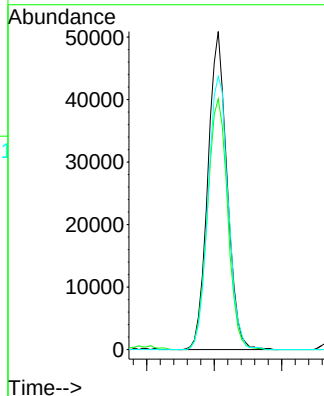
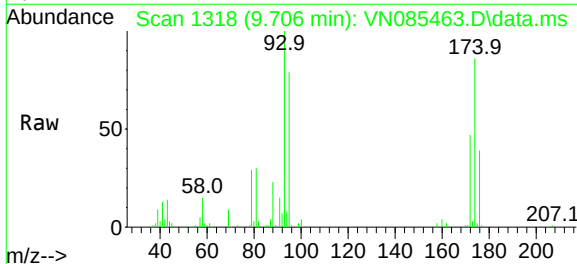
Tgt Ion: 93 Resp: 100497

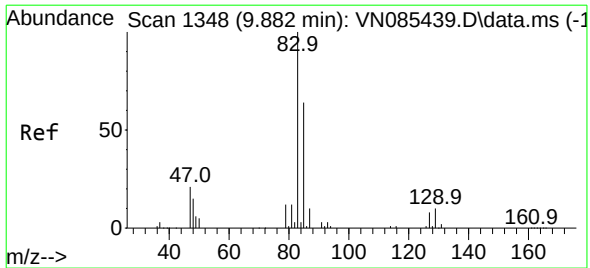
Ion Ratio Lower Upper

93 100

95 82.8 64.7 97.1

174 90.0 69.0 103.4





#47

Bromodichloromethane

Concen: 52.814 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085463.D

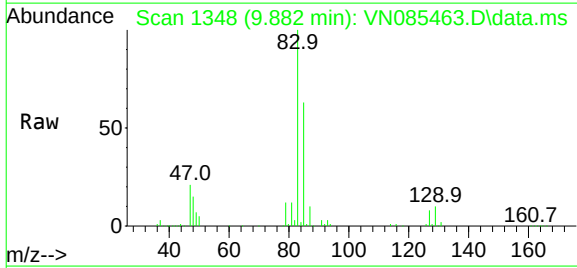
Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

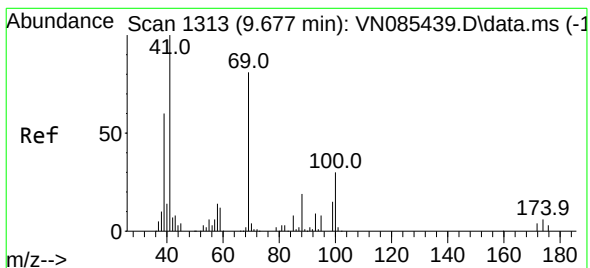
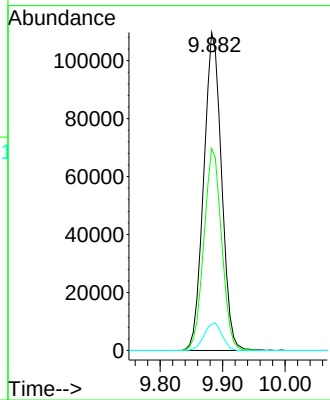
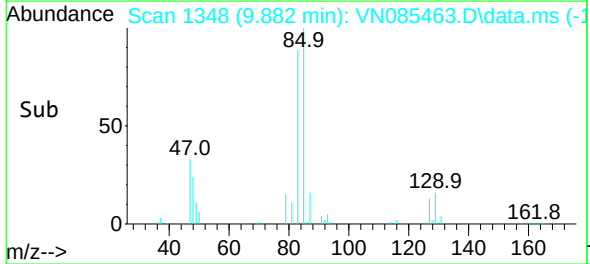


Tgt Ion	83	Resp	217353
Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.2	76.8
127	8.2	6.5	9.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#48

Methyl methacrylate

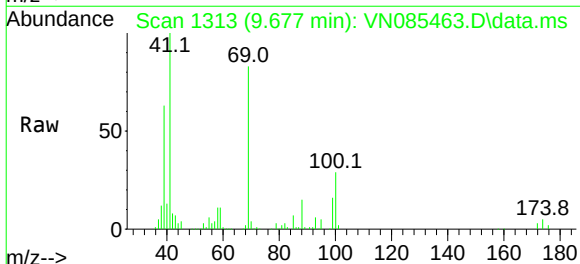
Concen: 57.796 ug/l

RT: 9.677 min Scan# 1313

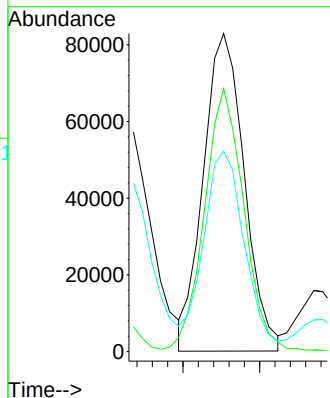
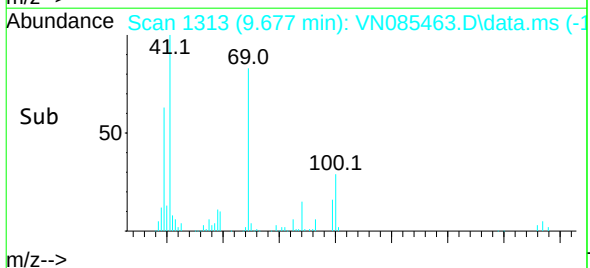
Delta R.T. -0.000 min

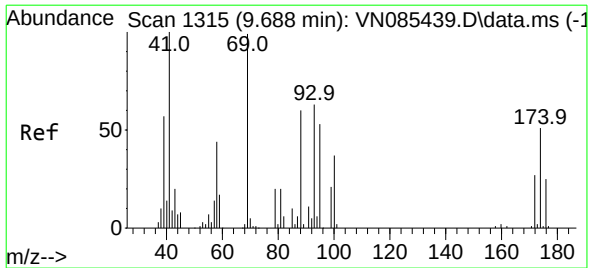
Lab File: VN085463.D

Acq: 15 Jan 2025 15:58



Tgt Ion	41	Resp	153447
Ion	Ratio	Lower	Upper
41	100		
69	80.2	64.7	97.1
39	63.2	49.0	73.6





#49

1,4-Dioxane

Concen: 972.836 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 88 Resp: 43495

Ion Ratio Lower Upper

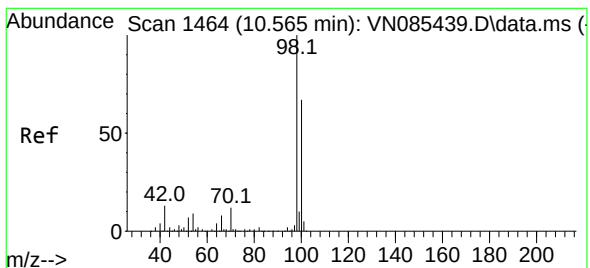
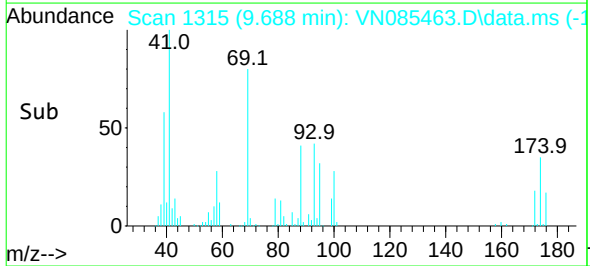
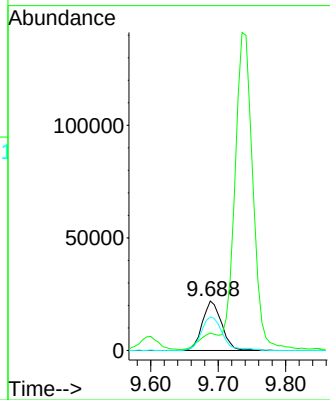
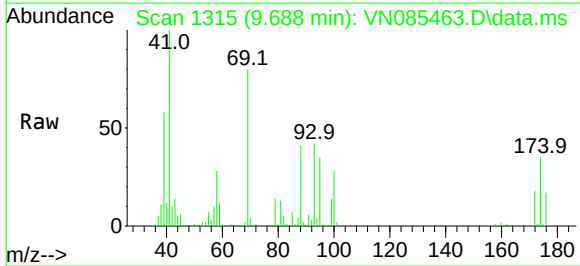
88 100

43 32.9 26.6 39.8

58 75.2 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#50

Toluene-d8

Concen: 54.009 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085463.D

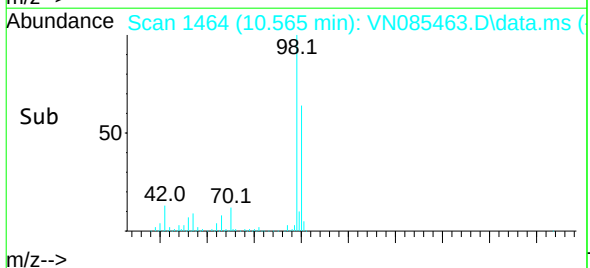
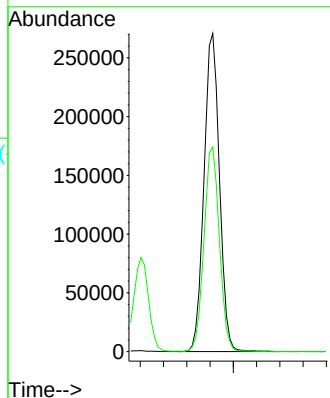
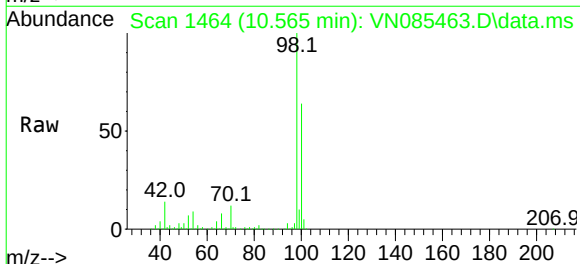
Acq: 15 Jan 2025 15:58

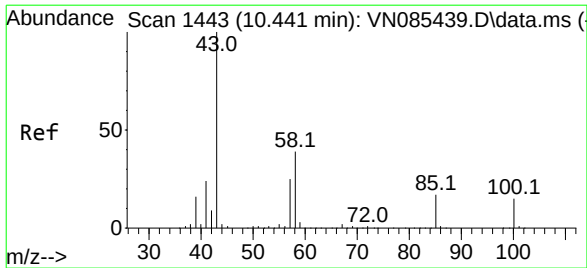
Tgt Ion: 98 Resp: 498748

Ion Ratio Lower Upper

98 100

100 64.2 52.2 78.4





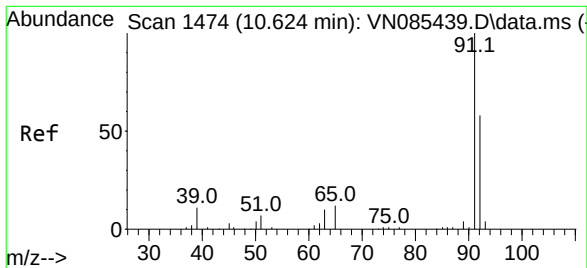
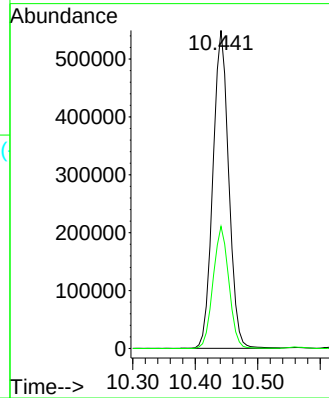
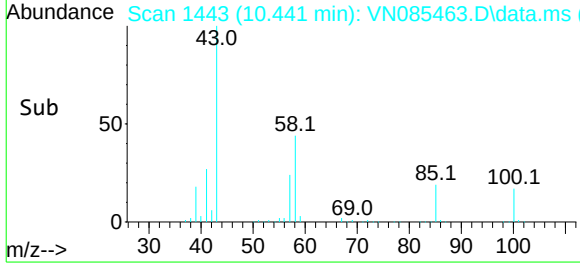
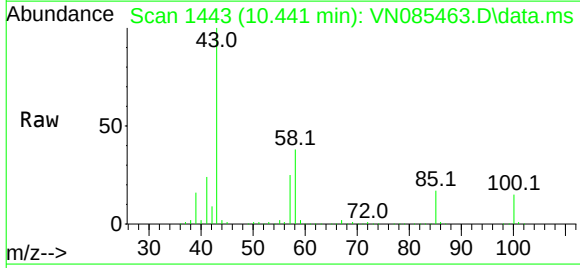
#51
4-Methyl-2-Pentanone
Concen: 282.679 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 967748
Ion Ratio Lower Upper
43 100
58 38.2 30.5 45.7

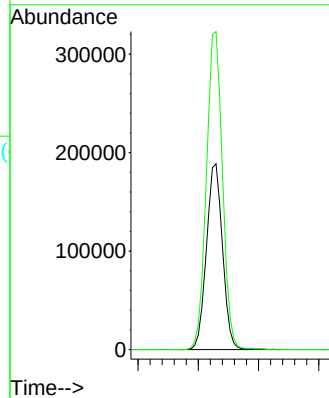
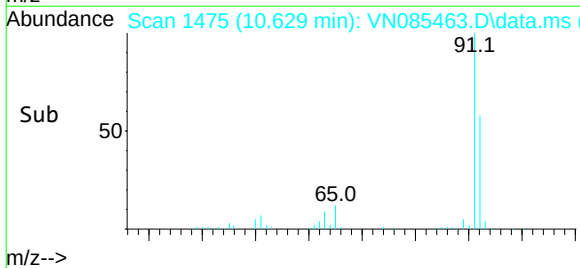
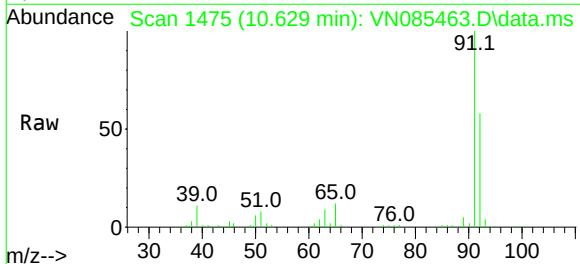
Manual Integrations
APPROVED

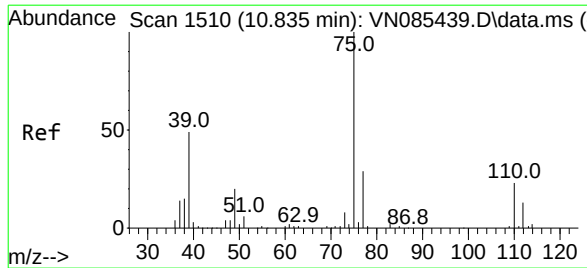
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#52
Toluene
Concen: 55.032 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 92 Resp: 349488
Ion Ratio Lower Upper
92 100
91 171.6 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 55.946 ug/l

RT: 10.829 min Scan# 1510

Delta R.T. -0.006 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 75 Resp: 217586

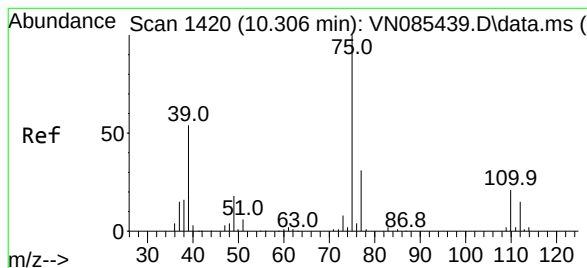
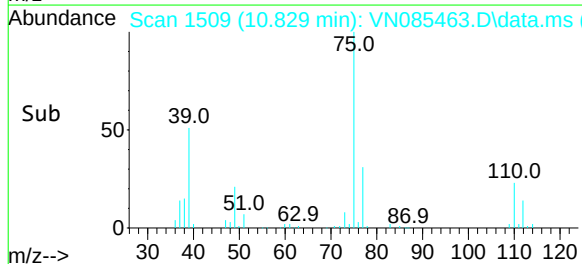
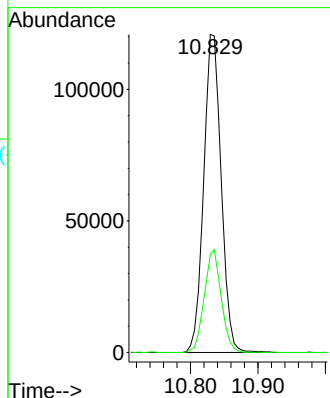
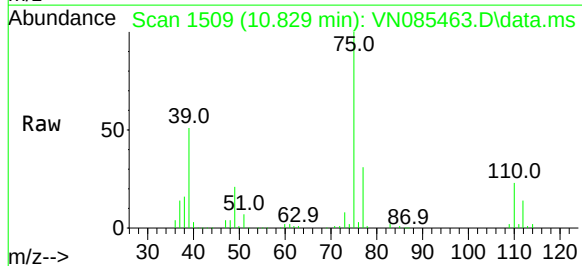
Ion Ratio Lower Upper

75 100

77 30.8 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#54

cis-1,3-Dichloropropene

Concen: 55.661 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.006 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

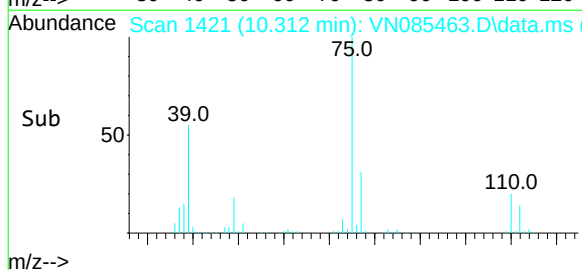
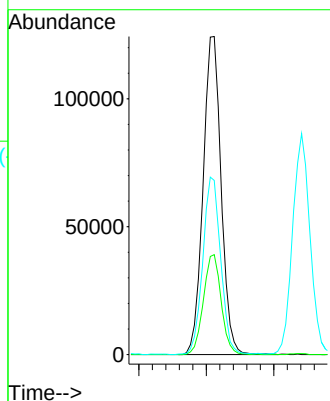
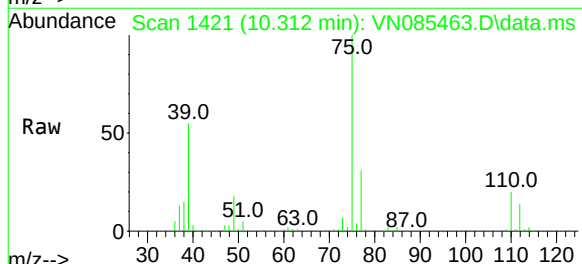
Tgt Ion: 75 Resp: 231235

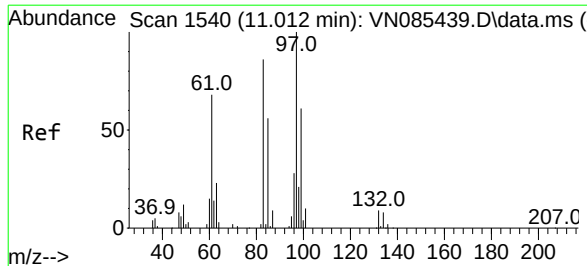
Ion Ratio Lower Upper

75 100

77 31.4 25.0 37.4

39 54.6 43.1 64.7





#55

1,1,2-Trichloroethane

Concen: 51.759 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 97 Resp: 130083

Ion Ratio Lower Upper

97 100

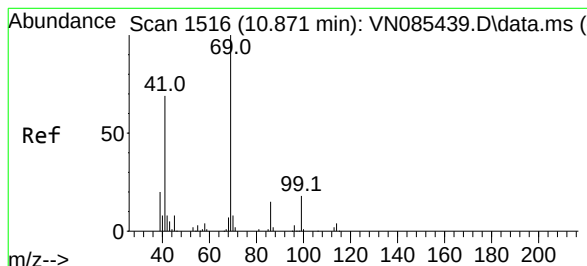
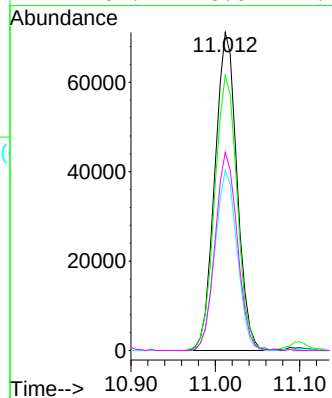
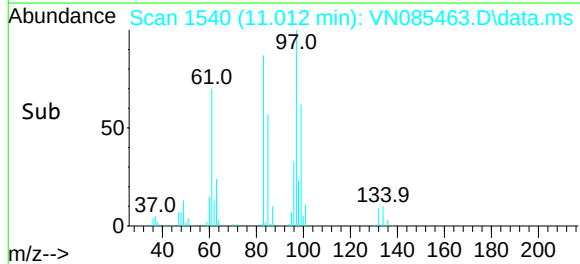
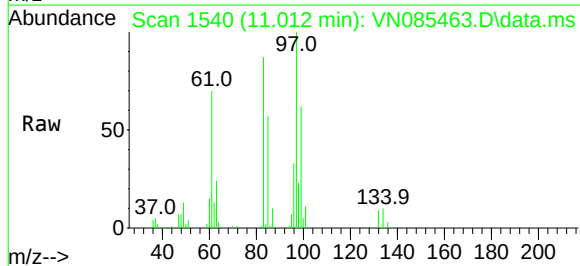
83 86.5 69.0 103.6

85 56.7 44.6 66.8

99 62.4 48.6 72.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#56

Ethyl methacrylate

Concen: 49.885 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

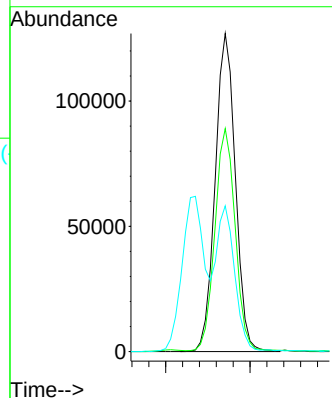
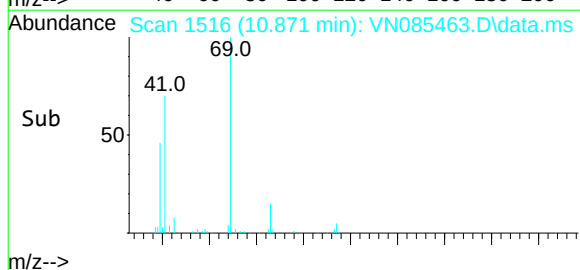
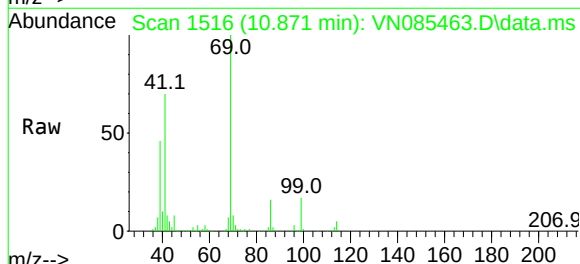
Tgt Ion: 69 Resp: 211176

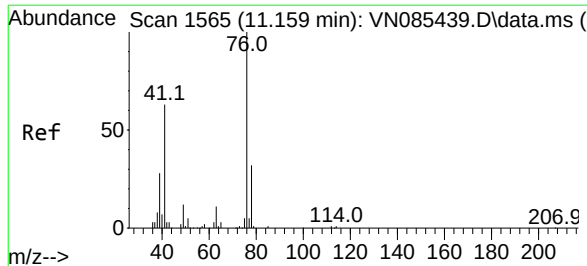
Ion Ratio Lower Upper

69 100

41 70.3 54.6 82.0

39 41.5 32.4 48.6





#57

1,3-Dichloropropane

Concen: 53.338 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 76 Resp: 233088

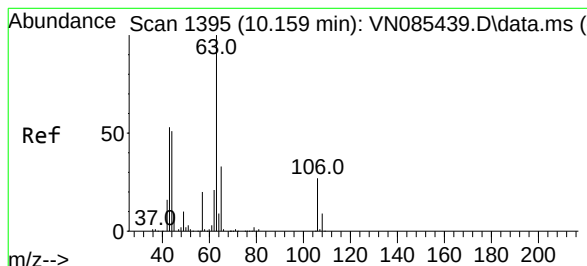
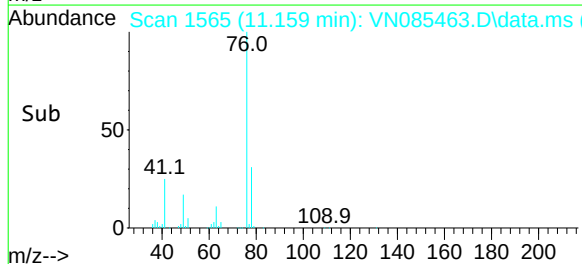
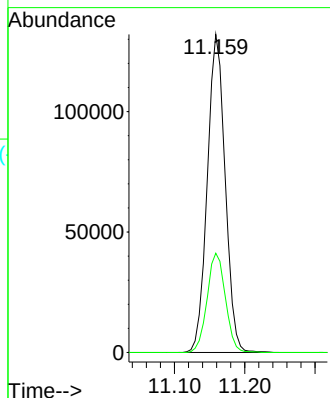
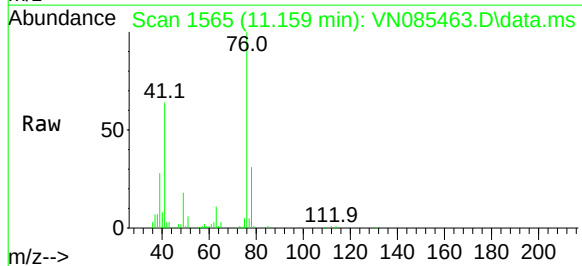
Ion Ratio Lower Upper

76 100

78 32.0 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#58

2-Chloroethyl Vinyl ether

Concen: 290.228 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN085463.D

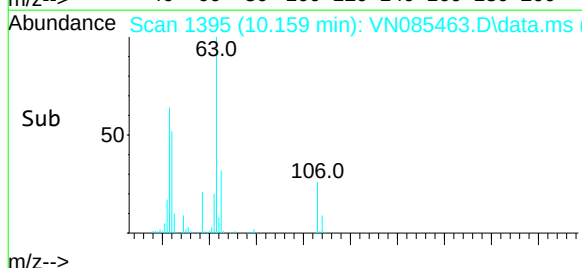
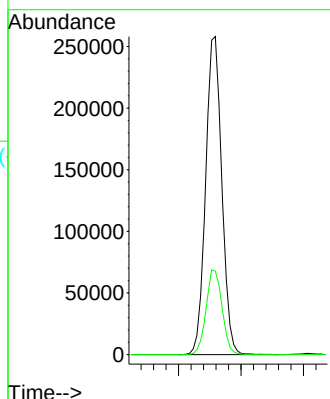
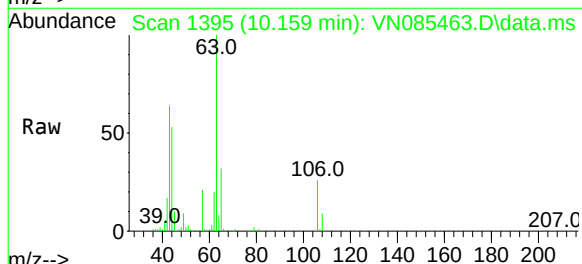
Acq: 15 Jan 2025 15:58

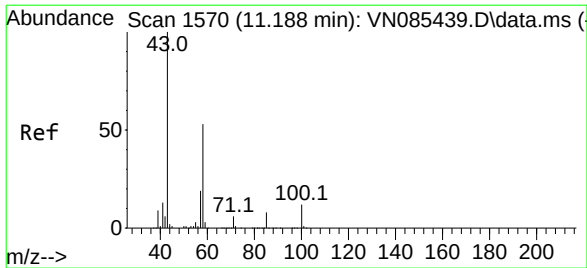
Tgt Ion: 63 Resp: 462882

Ion Ratio Lower Upper

63 100

106 26.4 21.6 32.4





#59

2-Hexanone

Concen: 292.136 ug/l

RT: 11.194 min Scan# 1570

Delta R.T. 0.006 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 703719

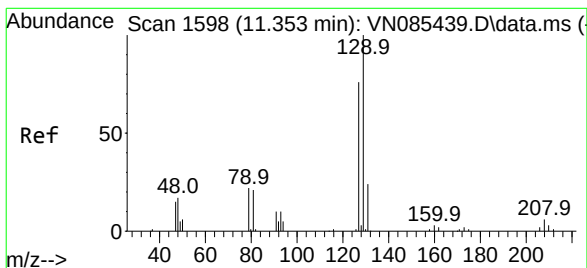
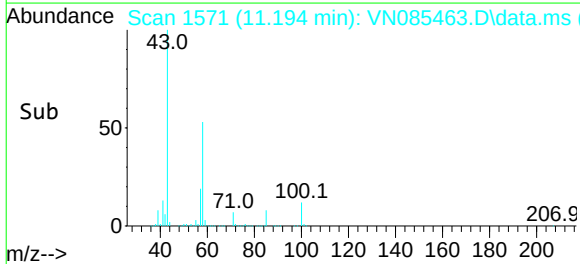
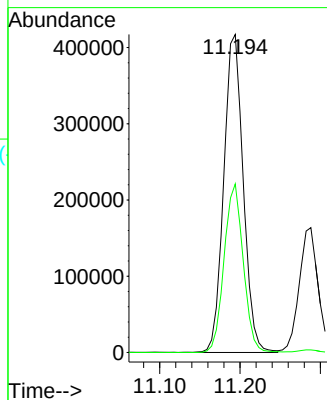
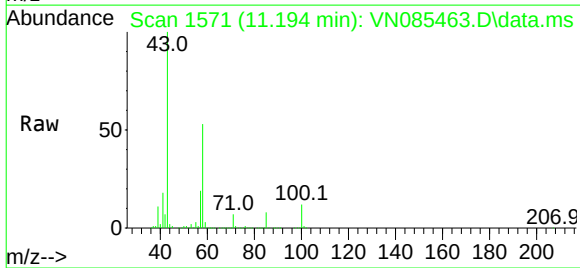
Ion Ratio Lower Upper

43 100

58 52.0 26.2 78.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#60

Dibromochloromethane

Concen: 52.339 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. -0.000 min

Lab File: VN085463.D

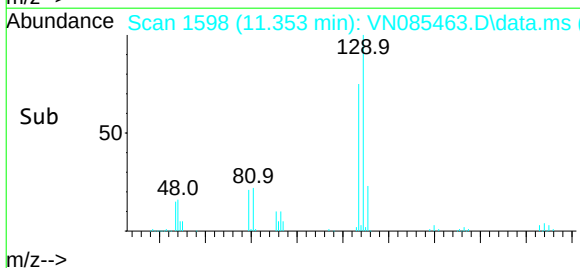
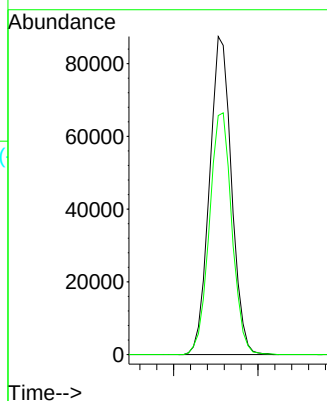
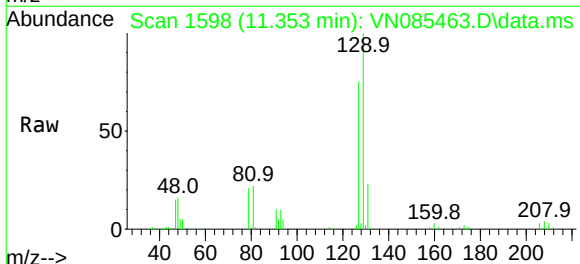
Acq: 15 Jan 2025 15:58

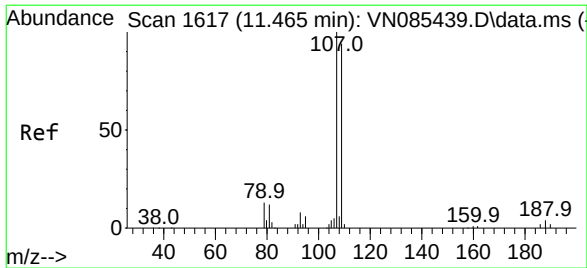
Tgt Ion:129 Resp: 158806

Ion Ratio Lower Upper

129 100

127 77.4 38.6 115.8





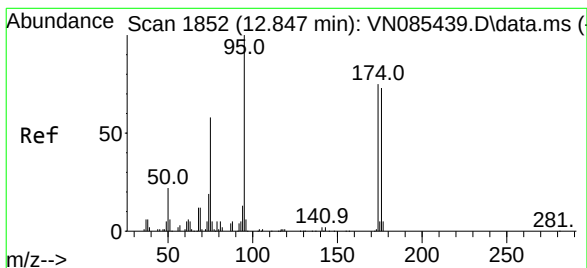
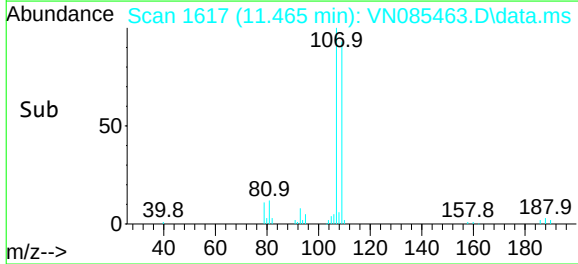
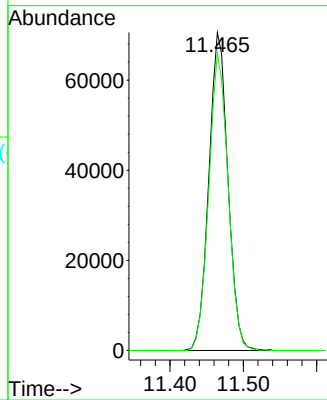
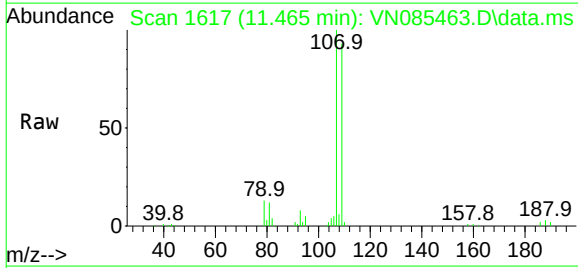
#61
1,2-Dibromoethane
Concen: 51.040 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 107 Resp: 127688
Ion Ratio Lower Upper
107 100
109 94.2 75.9 113.9

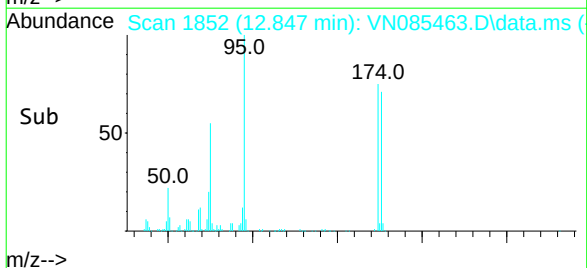
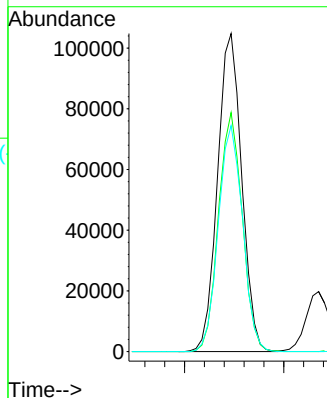
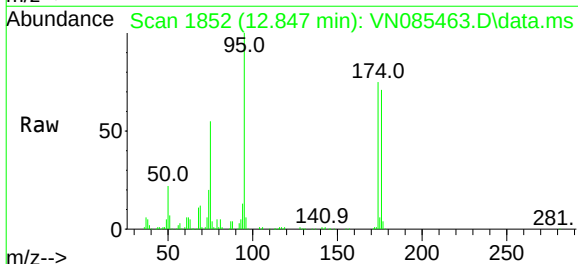
Manual Integrations
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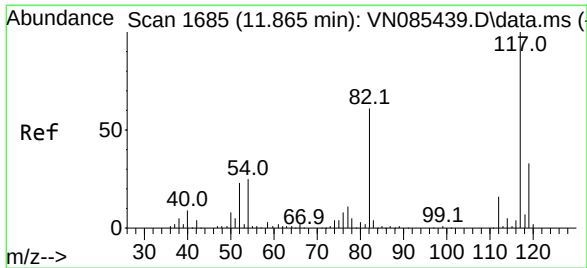
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#62
4-Bromofluorobenzene
Concen: 56.127 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 95 Resp: 177300
Ion Ratio Lower Upper
95 100
174 73.9 0.0 145.0
176 71.4 0.0 142.4





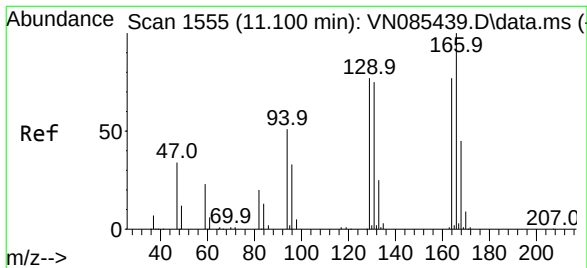
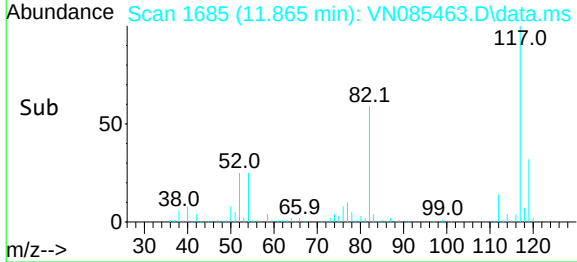
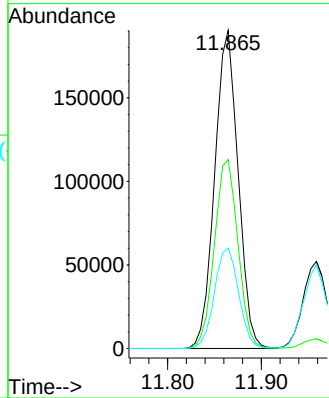
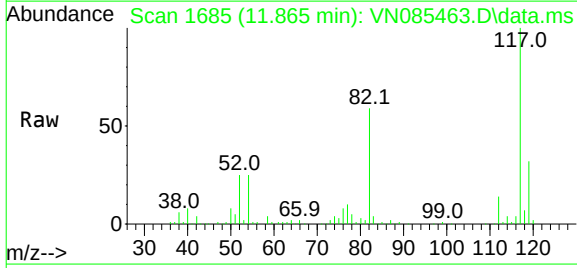
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 330319
Ion Ratio Lower Upper
117 100
82 59.4 48.6 72.8
119 31.6 26.6 39.8

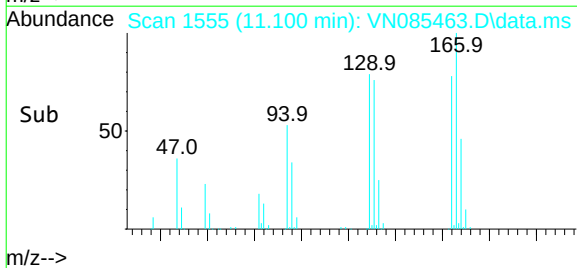
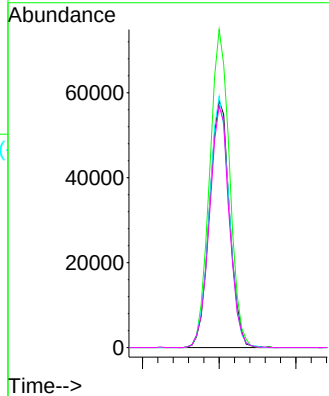
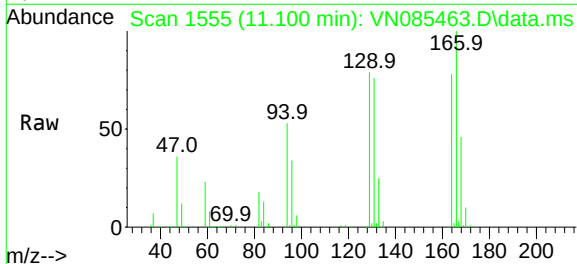
Manual Integrations
APPROVED

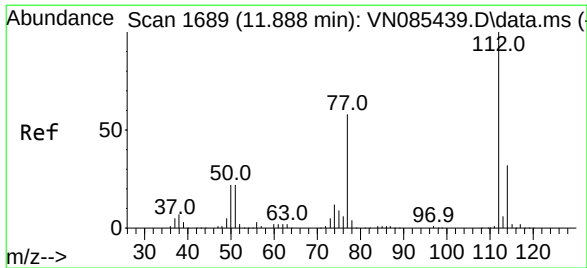
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#64
Tetrachloroethene
Concen: 47.207 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:164 Resp: 106305
Ion Ratio Lower Upper
164 100
166 128.8 103.4 155.2
129 101.8 79.2 118.8
131 97.9 77.1 115.7





#65

Chlorobenzene

Concen: 51.313 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:112 Resp: 371312

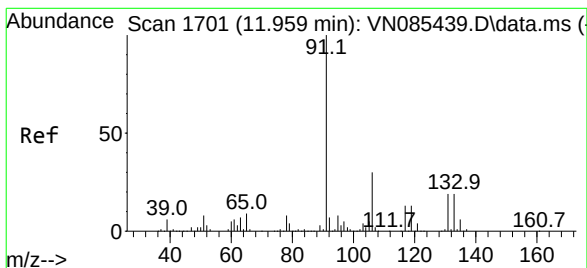
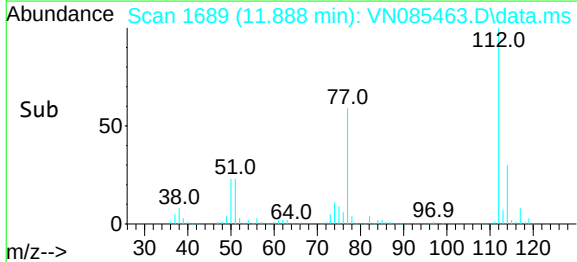
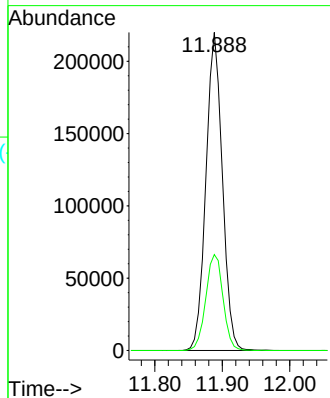
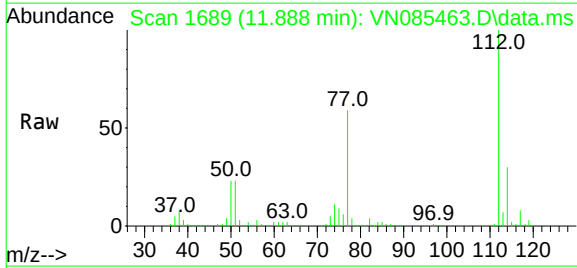
Ion Ratio Lower Upper

112 100

114 30.2 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#66

1,1,1,2-Tetrachloroethane

Concen: 50.351 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

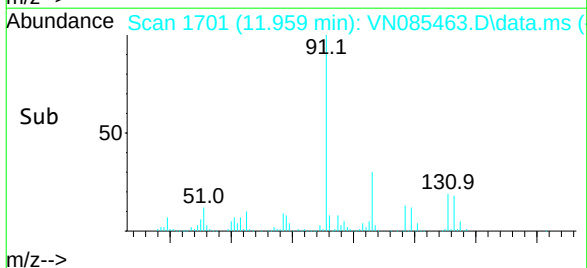
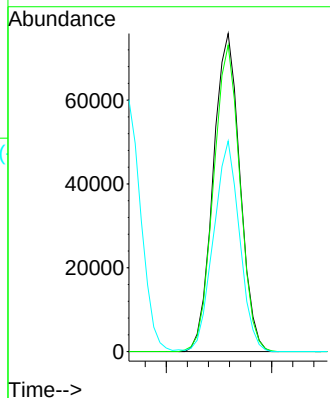
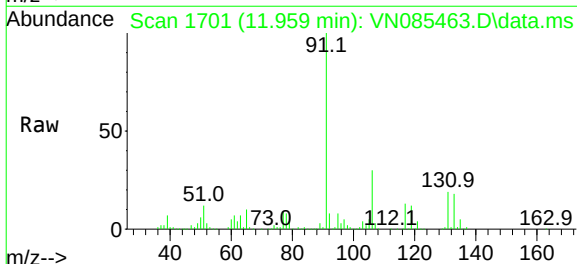
Tgt Ion:131 Resp: 133724

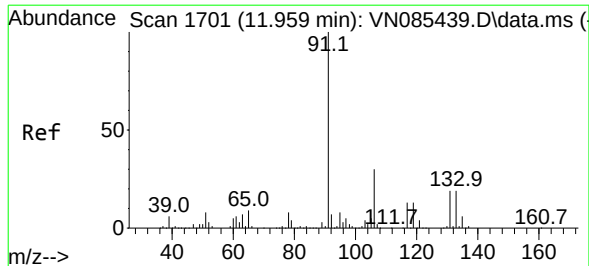
Ion Ratio Lower Upper

131 100

133 95.2 47.4 142.3

119 64.4 33.1 99.5





#67

Ethyl Benzene

Concen: 56.469 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 91 Resp: 665536

Ion Ratio Lower Upper

91 100

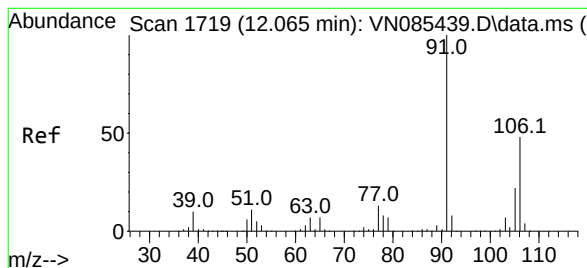
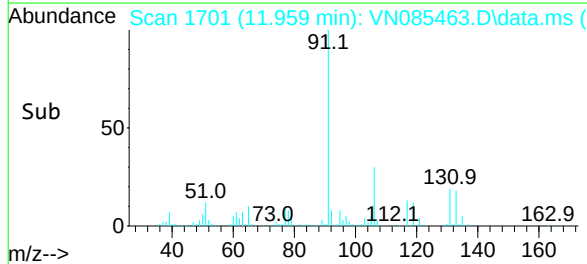
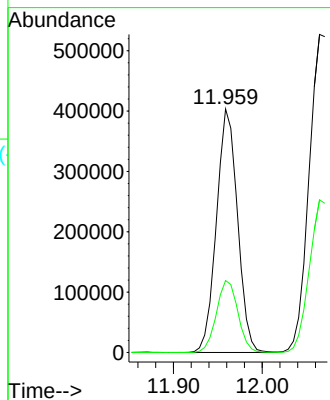
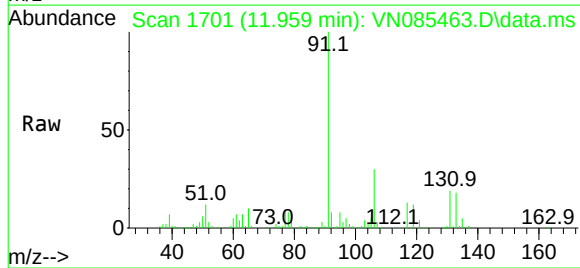
106 29.5 23.8 35.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#68

m/p-Xylenes

Concen: 114.541 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. -0.000 min

Lab File: VN085463.D

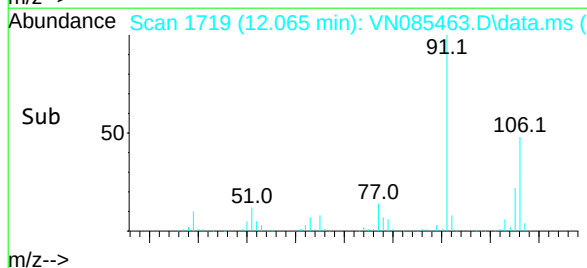
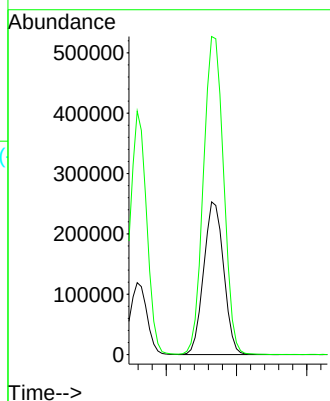
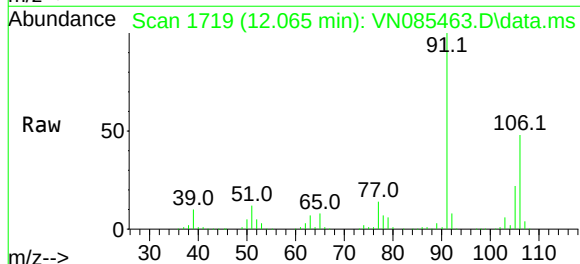
Acq: 15 Jan 2025 15:58

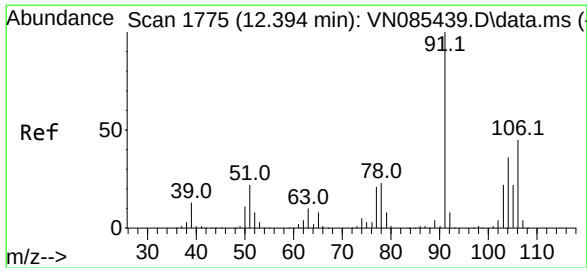
Tgt Ion:106 Resp: 498925

Ion Ratio Lower Upper

106 100

91 210.4 167.7 251.5





#69

o-Xylene

Concen: 56.724 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:106 Resp: 236130

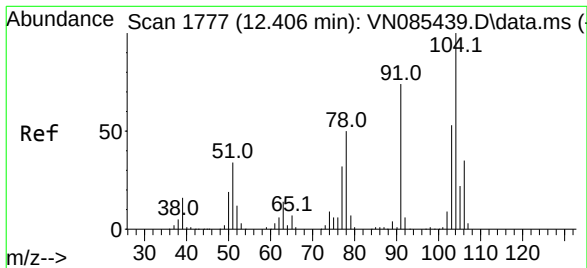
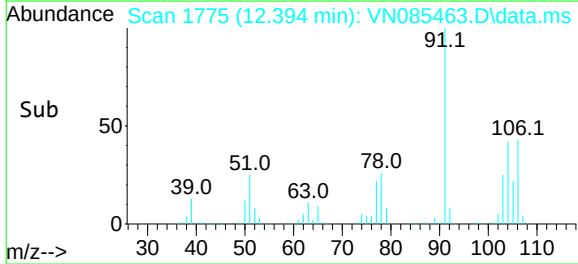
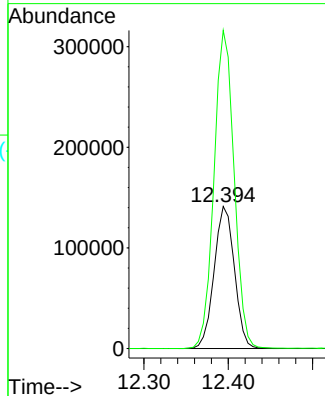
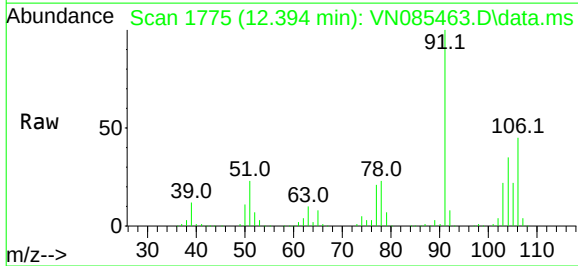
Ion Ratio Lower Upper

106 100

91 222.0 110.4 331.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#70

Styrene

Concen: 59.312 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

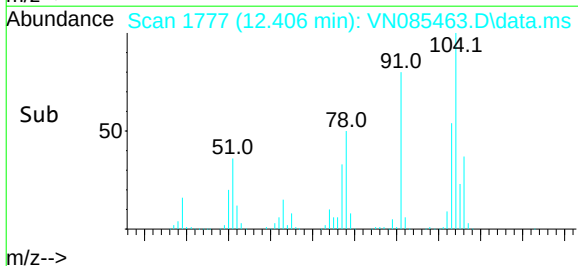
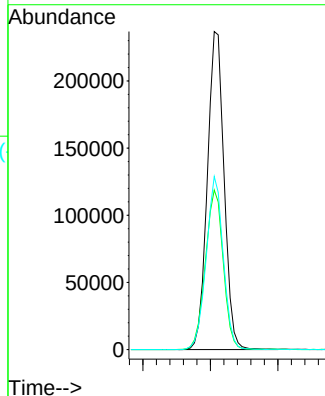
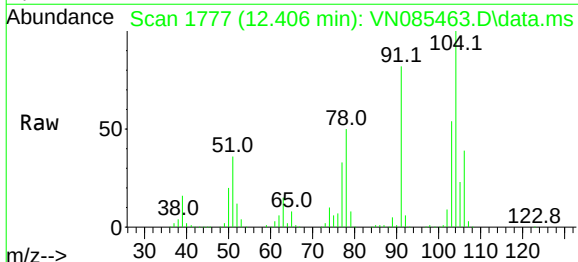
Tgt Ion:104 Resp: 408614

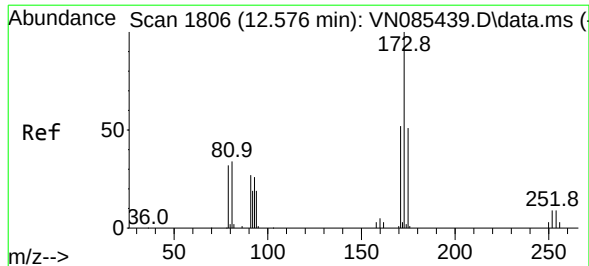
Ion Ratio Lower Upper

104 100

78 53.4 42.5 63.7

103 55.4 43.8 65.8





#71

Bromoform

Concen: 55.344 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:173 Resp: 105169

Ion Ratio Lower Upper

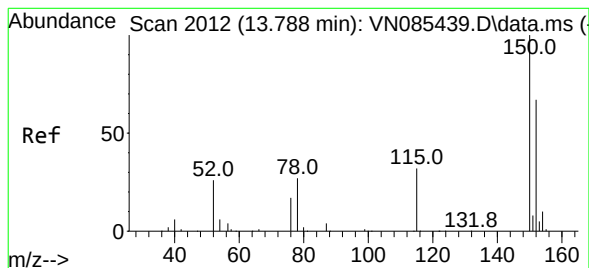
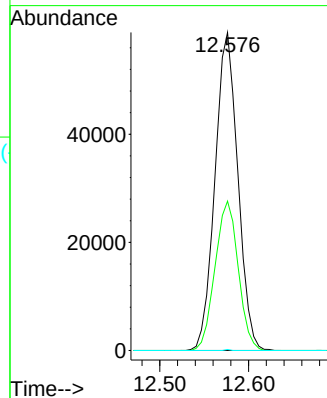
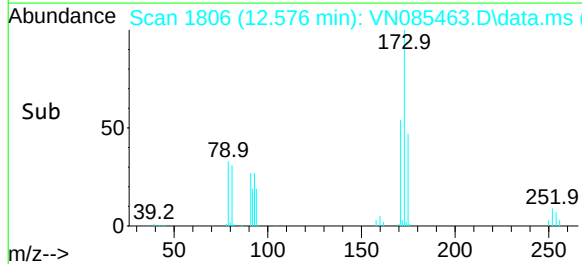
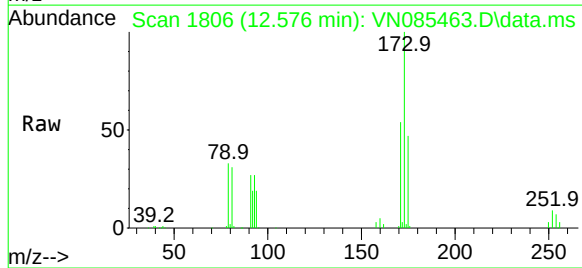
173 100

175 47.5 24.4 73.2

254 0.1 0.0 0.0#

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

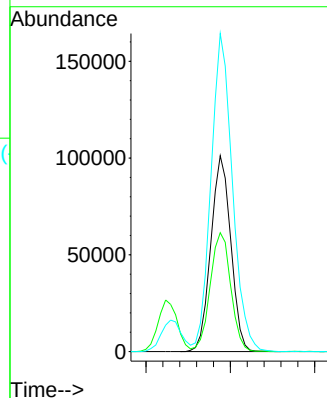
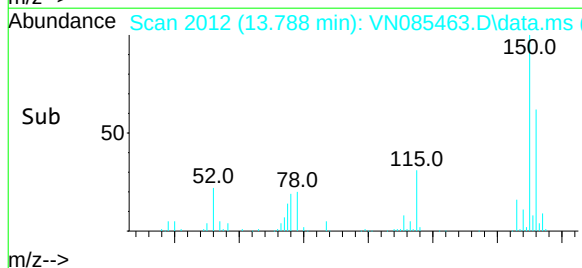
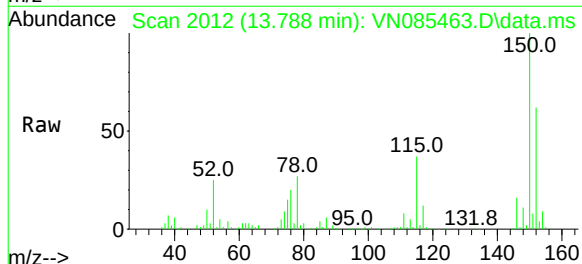
Tgt Ion:152 Resp: 166317

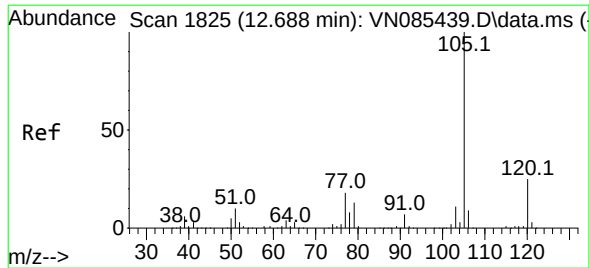
Ion Ratio Lower Upper

152 100

115 62.7 31.1 93.3

150 174.6 0.0 343.6





#73

Isopropylbenzene

Concen: 54.752 ug/l

RT: 12.694 min Scan# 1825

Delta R.T. 0.006 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Tgt Ion: 105 Resp: 614595

Ion Ratio Lower Upper

105 100

120 25.5 12.8 38.3

Instrument :

MSVOA_N

ClientSampleId :

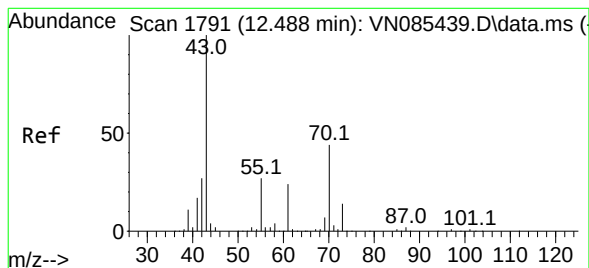
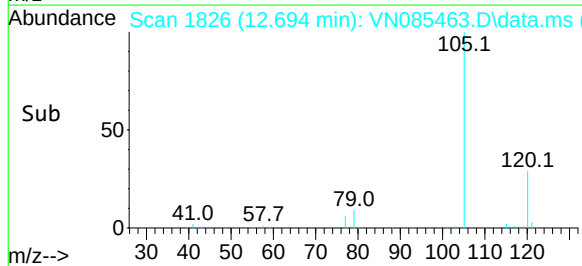
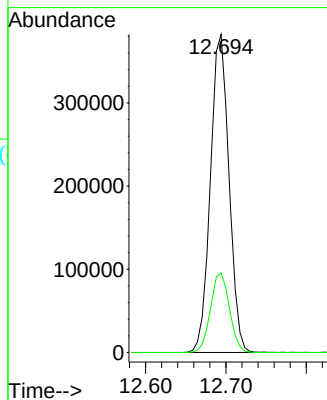
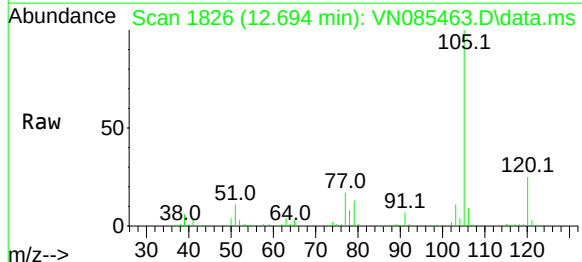
VSTDCCC050EC

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#74

N-ethyl acetate

Concen: 56.244 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Tgt Ion: 43 Resp: 283775

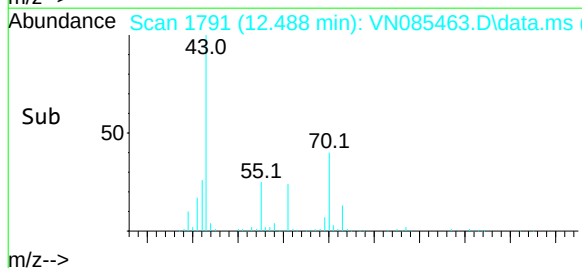
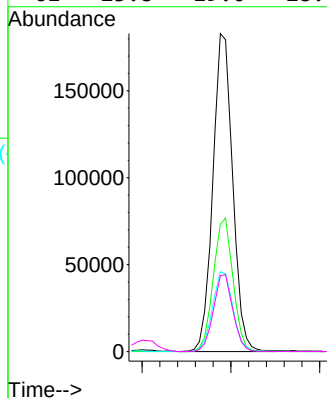
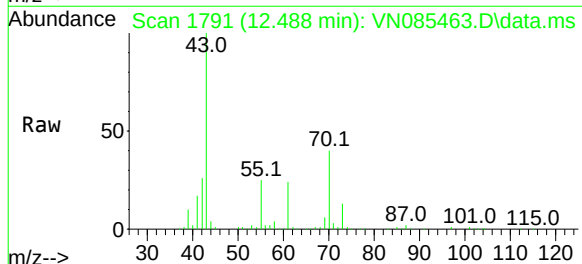
Ion Ratio Lower Upper

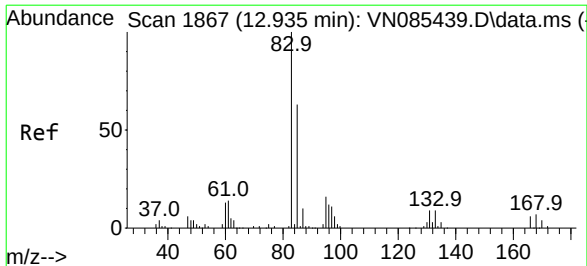
43 100

70 41.8 34.0 51.0

55 25.9 21.4 32.2

61 23.8 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 49.296 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 83 Resp: 195465

Ion Ratio Lower Upper

83 100

131 9.7 4.8 14.4

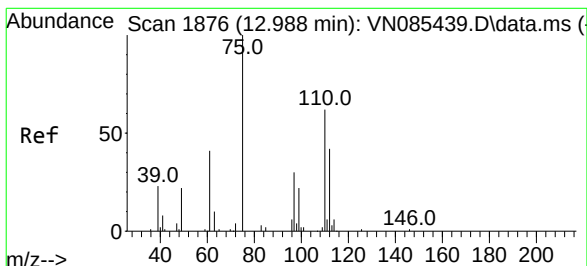
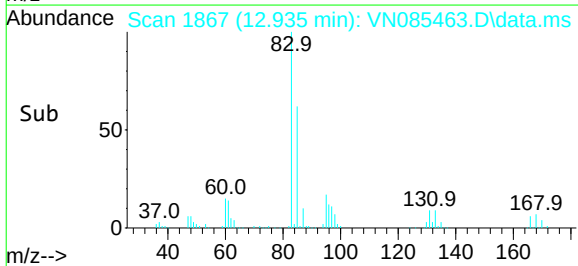
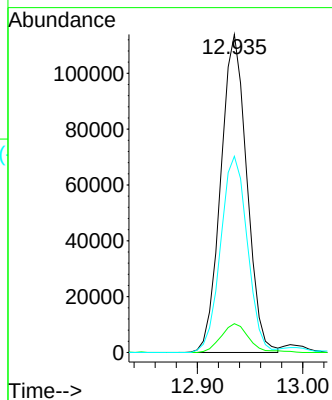
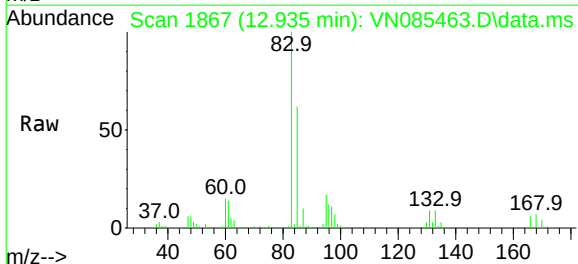
85 63.5 32.2 96.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#76

1,2,3-Trichloropropane

Concen: 45.748 ug/l m

RT: 12.988 min Scan# 1876

Delta R.T. -0.000 min

Lab File: VN085463.D

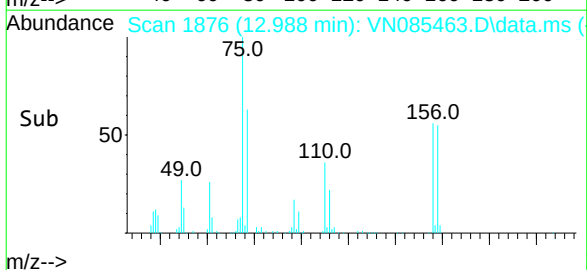
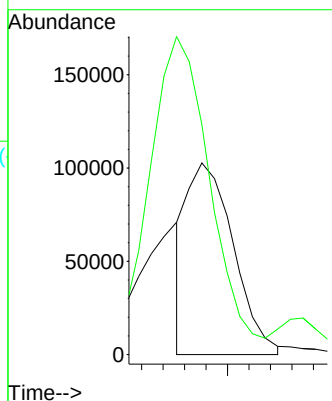
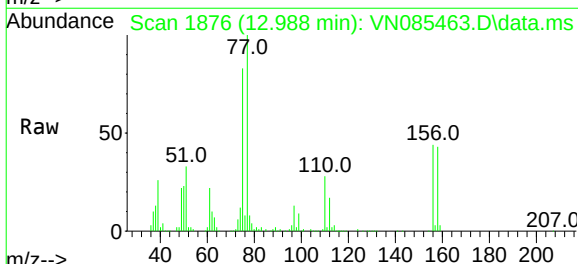
Acq: 15 Jan 2025 15:58

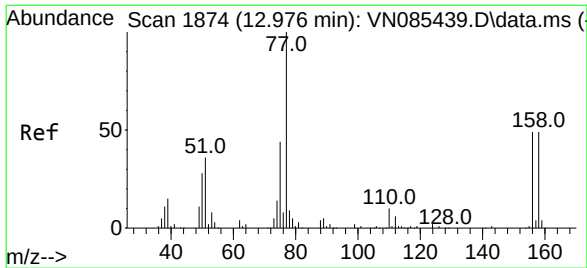
Tgt Ion: 75 Resp: 154649

Ion Ratio Lower Upper

75 100

77 218.6 109.7 329.2





#77

Bromobenzene

Concen: 50.075 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN085463.D

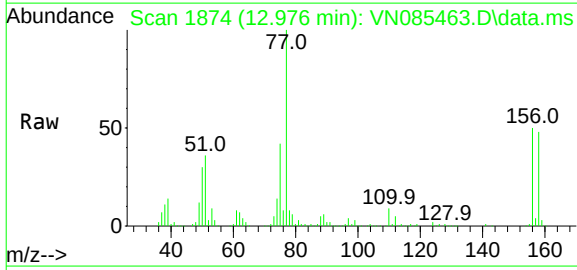
Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC



Tgt Ion:156 Resp: 146854

Ion Ratio Lower Upper

156 100

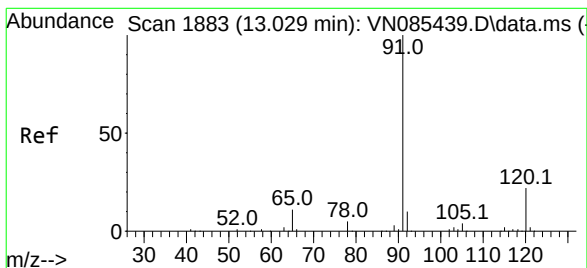
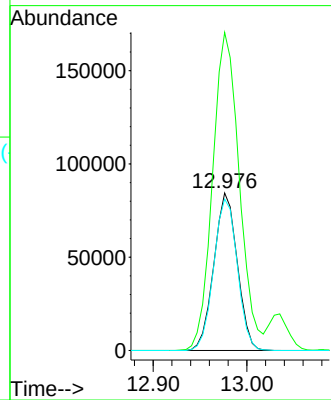
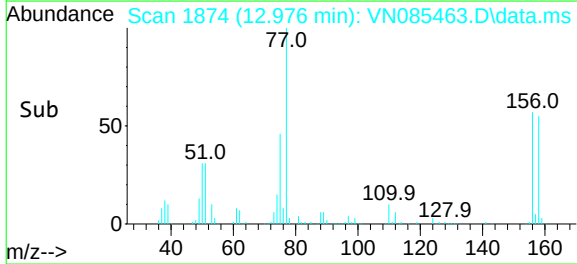
77 230.3 114.1 342.4

158 96.8 48.9 146.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025



#78

n-propylbenzene

Concen: 56.324 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.006 min

Lab File: VN085463.D

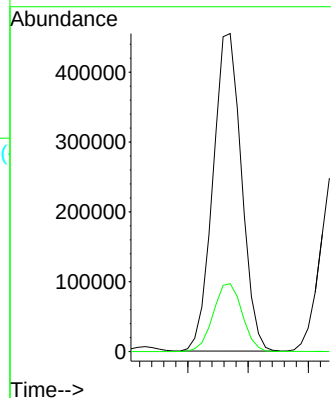
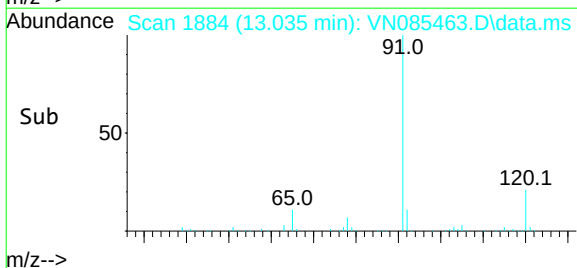
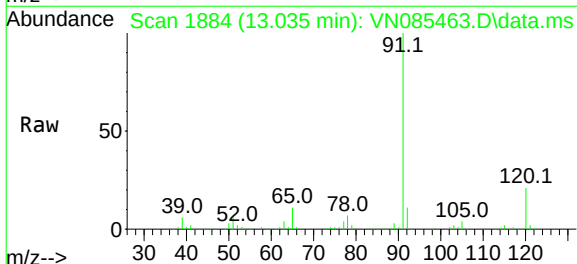
Acq: 15 Jan 2025 15:58

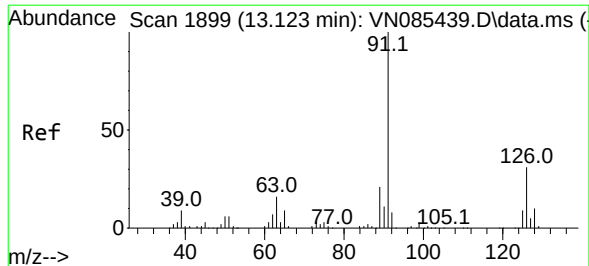
Tgt Ion: 91 Resp: 748465

Ion Ratio Lower Upper

91 100

120 21.8 10.9 32.6





#79

2-Chlorotoluene

Concen: 52.351 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 91 Resp: 450235

Ion Ratio Lower Upper

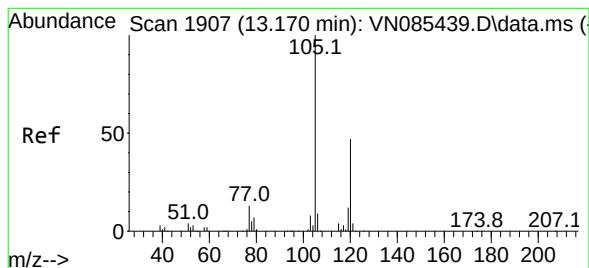
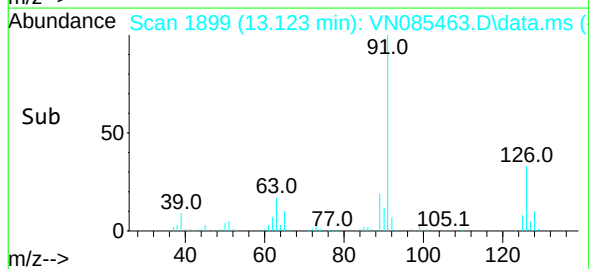
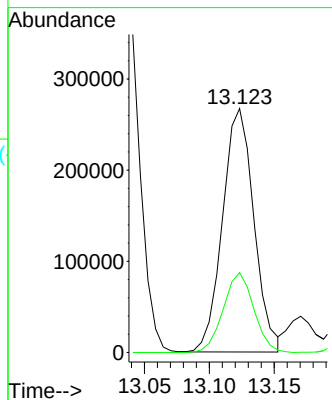
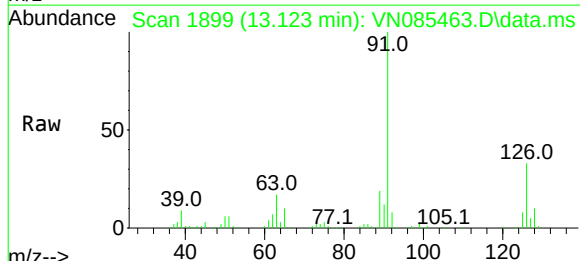
91 100

126 31.8 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#80

1,3,5-Trimethylbenzene

Concen: 56.485 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085463.D

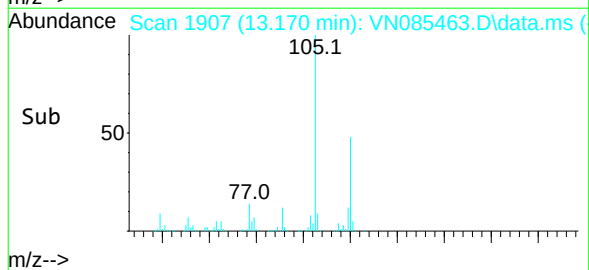
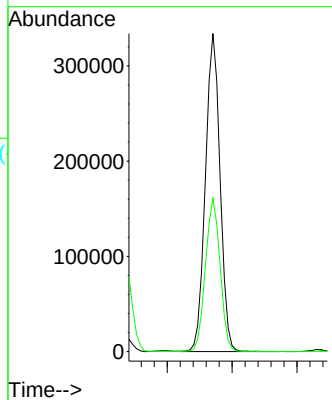
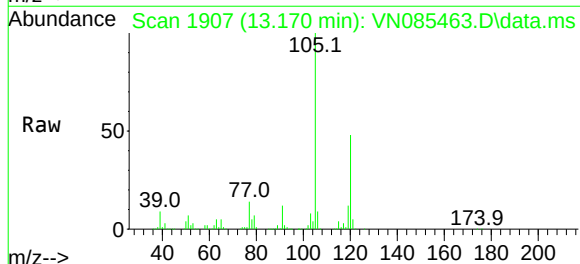
Acq: 15 Jan 2025 15:58

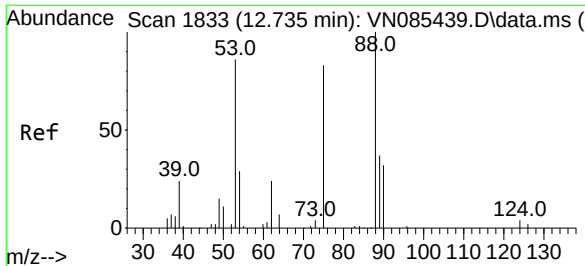
Tgt Ion:105 Resp: 523728

Ion Ratio Lower Upper

105 100

120 48.2 23.9 71.7





#81

trans-1,4-Dichloro-2-butene

Concen: 56.580 ug/l m

RT: 12.735 min Scan# 18

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 75 Resp: 70693

Ion Ratio Lower Upper

75 100

53 114.6 95.6 143.4

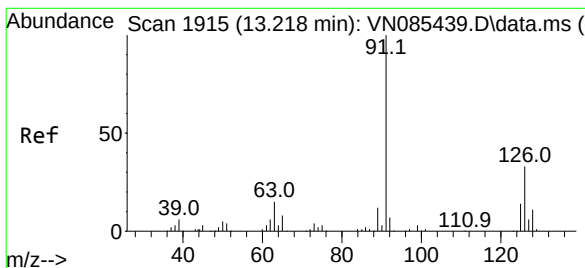
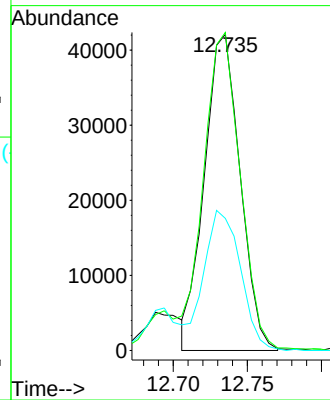
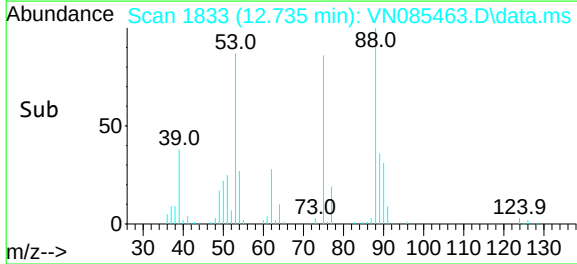
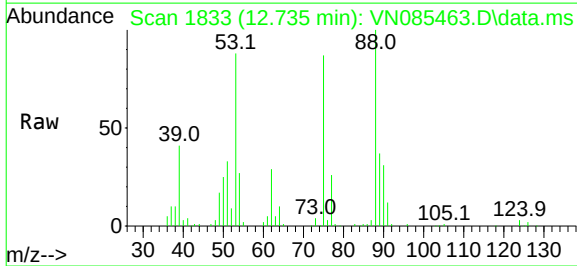
89 45.8 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#82

4-Chlorotoluene

Concen: 53.678 ug/l

RT: 13.217 min Scan# 1915

Delta R.T. -0.000 min

Lab File: VN085463.D

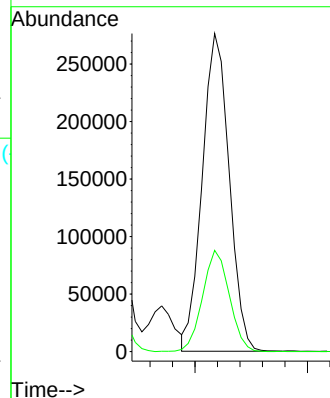
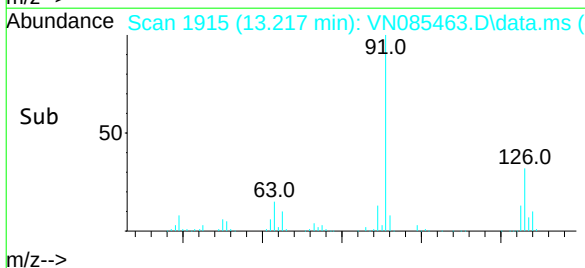
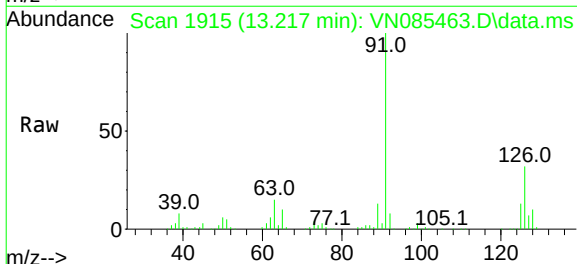
Acq: 15 Jan 2025 15:58

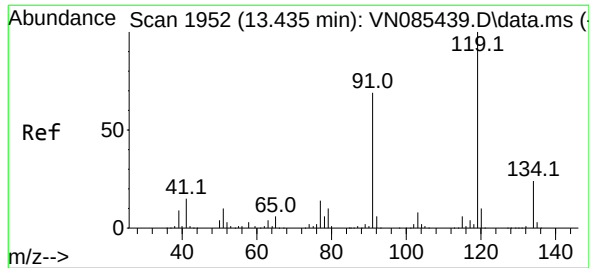
Tgt Ion: 91 Resp: 459658

Ion Ratio Lower Upper

91 100

126 31.6 15.9 47.7





#83

tert-Butylbenzene

Concen: 56.211 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN085463.D

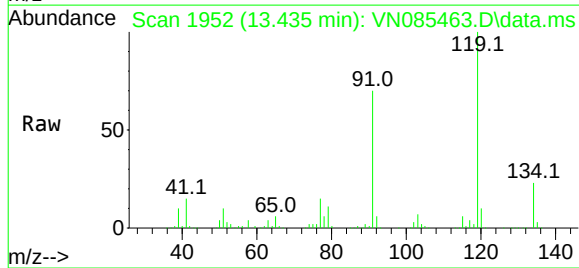
Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC



Tgt Ion:119 Resp: 437674

Ion Ratio Lower Upper

119 100

91 69.9 35.1 105.3

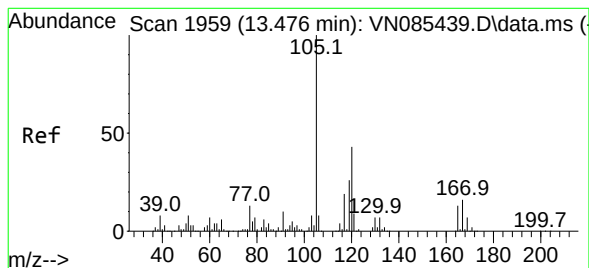
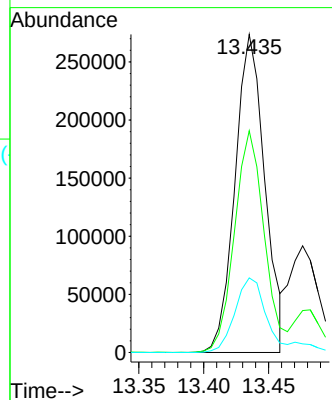
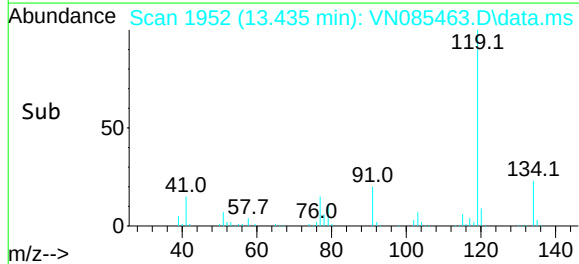
134 24.1 12.0 36.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#84

1,2,4-Trimethylbenzene

Concen: 57.491 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN085463.D

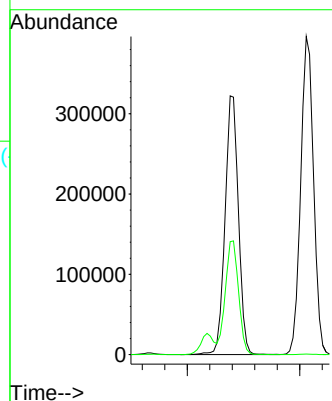
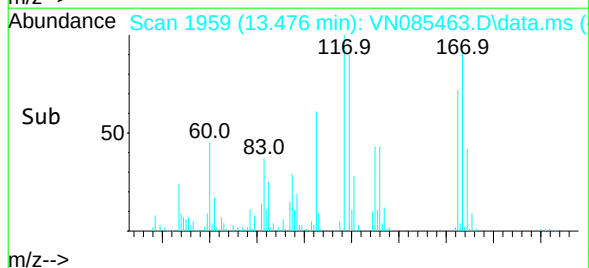
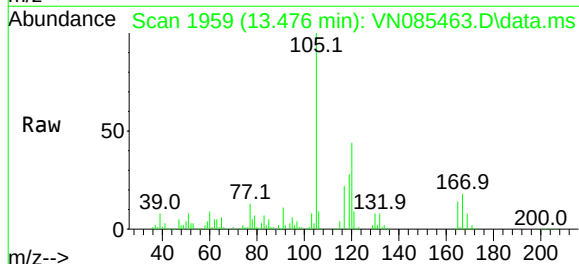
Acq: 15 Jan 2025 15:58

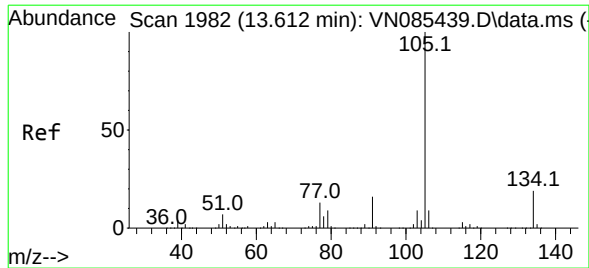
Tgt Ion:105 Resp: 531276

Ion Ratio Lower Upper

105 100

120 43.5 21.6 65.0





#85

sec-Butylbenzene

Concen: 58.063 ug/l

RT: 13.612 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:105 Resp: 626587

Ion Ratio Lower Upper

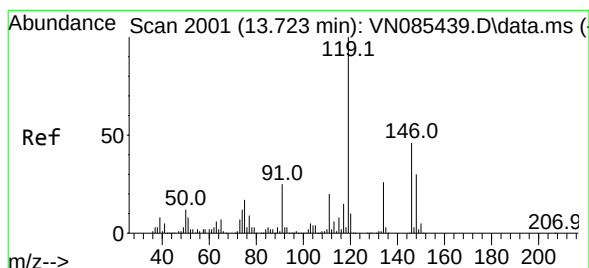
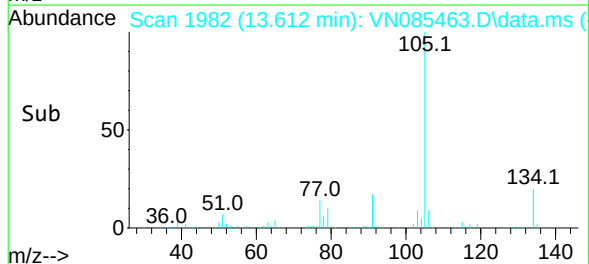
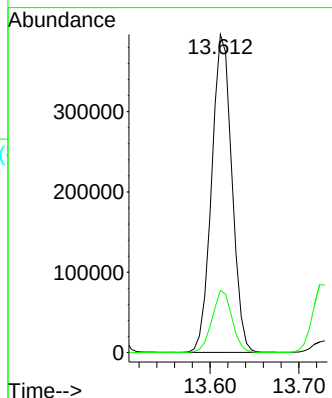
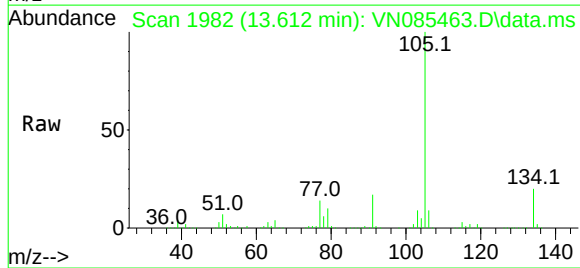
105 100

134 19.2 9.7 28.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025



#86

p-Isopropyltoluene

Concen: 53.560 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

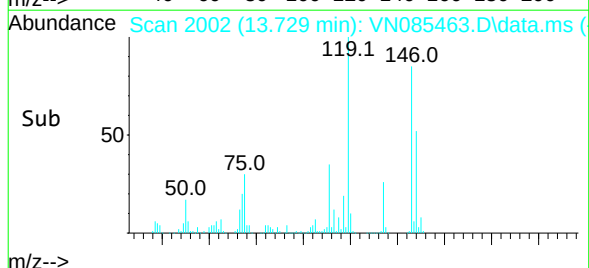
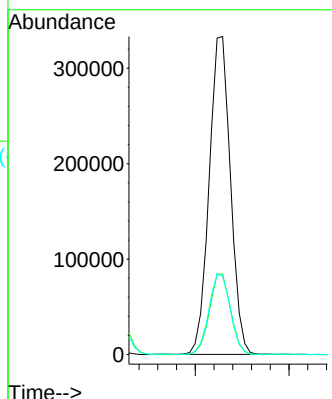
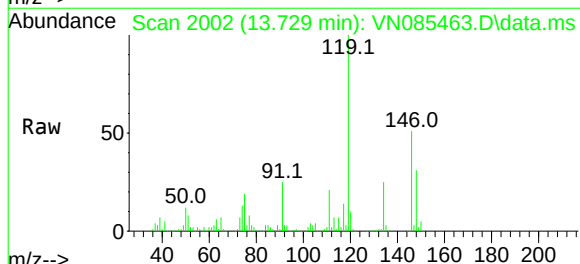
Tgt Ion:119 Resp: 525049

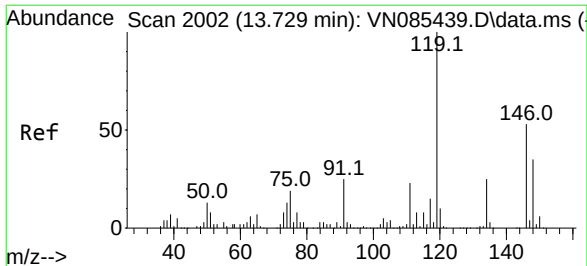
Ion Ratio Lower Upper

119 100

134 25.2 12.7 38.0

91 25.6 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 51.364 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085463.D

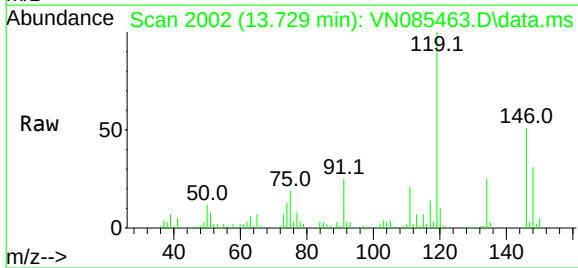
Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC



Tgt Ion:146 Resp: 277409

Ion Ratio Lower Upper

146 100

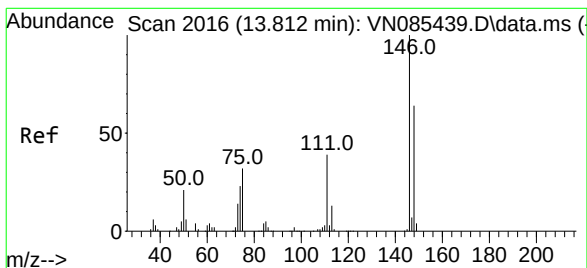
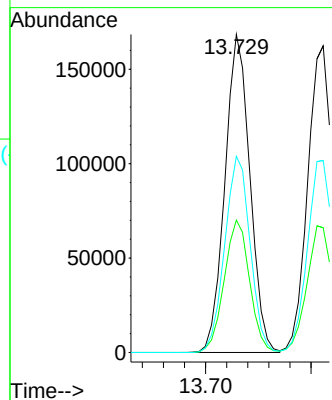
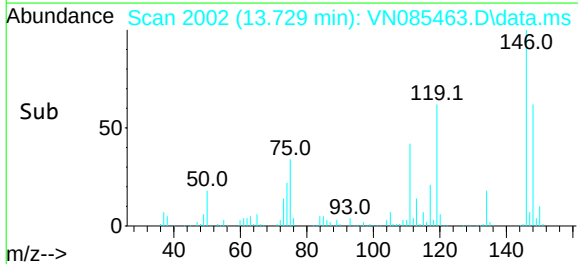
111 42.2 21.4 64.3

148 62.6 32.3 96.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025



#88

1,4-Dichlorobenzene

Concen: 48.694 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

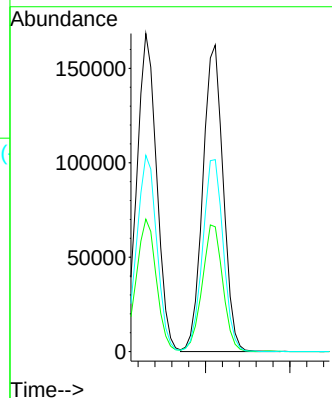
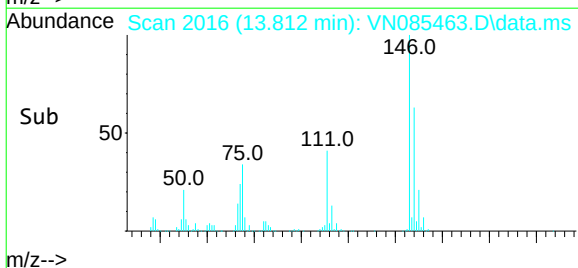
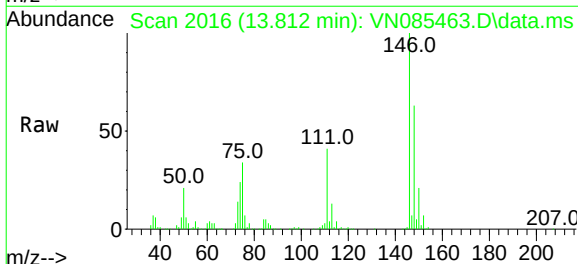
Tgt Ion:146 Resp: 272594

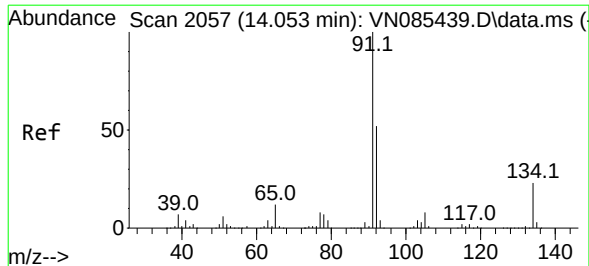
Ion Ratio Lower Upper

146 100

111 41.7 21.3 63.7

148 63.5 32.4 97.0





#89

n-Butylbenzene

Concen: 58.802 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

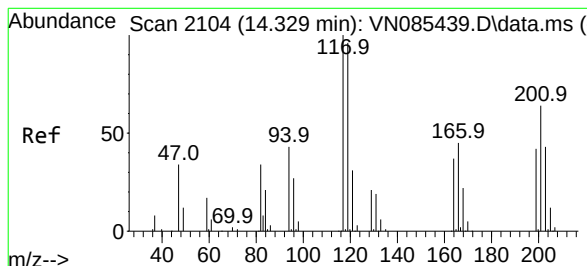
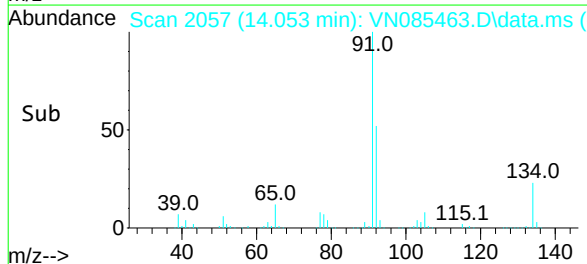
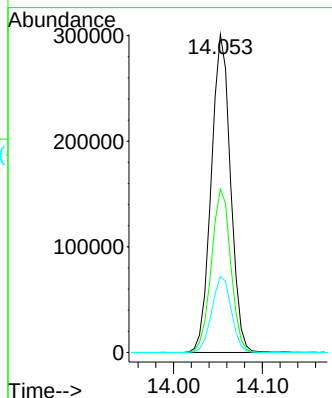
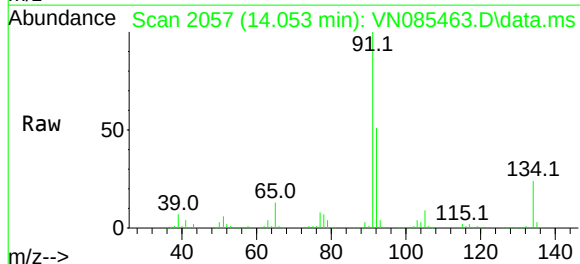
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	91	Resp:	455243
Ion Ratio	Lower	Upper	
91	100		
92	51.7	25.8	77.3
134	24.2	11.7	35.1

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#90

Hexachloroethane

Concen: 50.491 ug/l

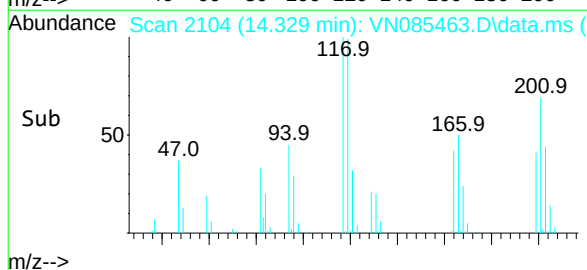
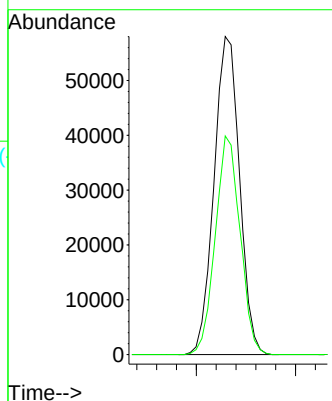
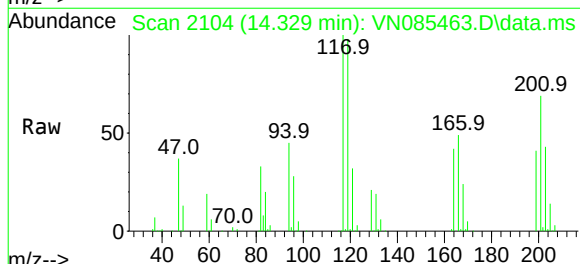
RT: 14.329 min Scan# 2104

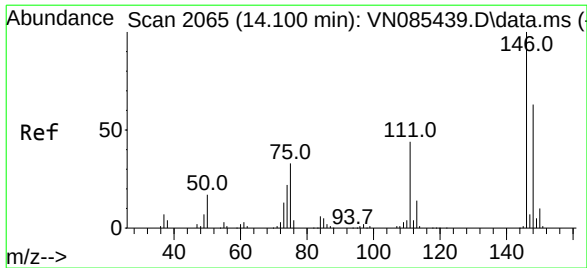
Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

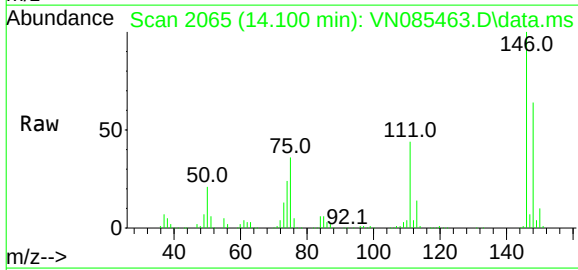
Tgt Ion:	117	Resp:	103728
Ion Ratio	Lower	Upper	
117	100		
201	66.7	33.7	101.0





#91
1,2-Dichlorobenzene
Concen: 49.494 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

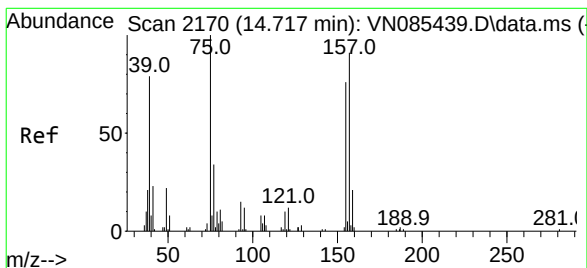
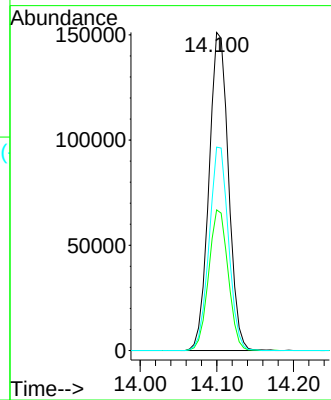
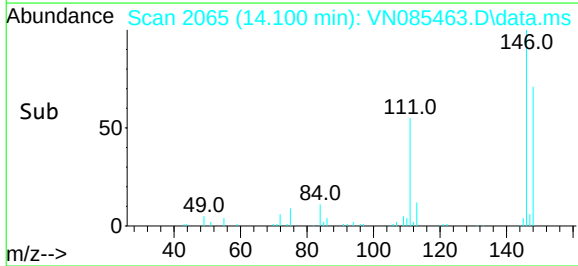
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 146 Resp: 266635
Ion Ratio Lower Upper
146 100
111 44.1 21.7 65.1
148 63.3 31.4 94.2

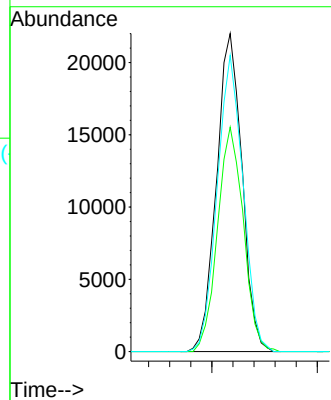
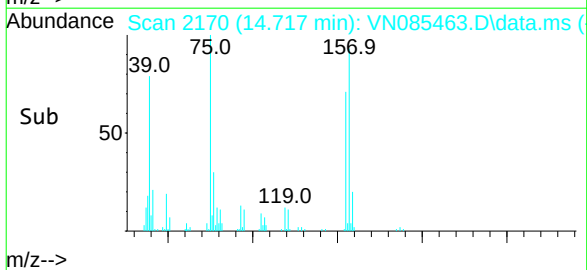
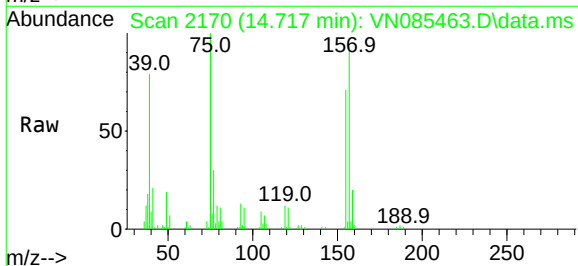
Manual Integrations
APPROVED

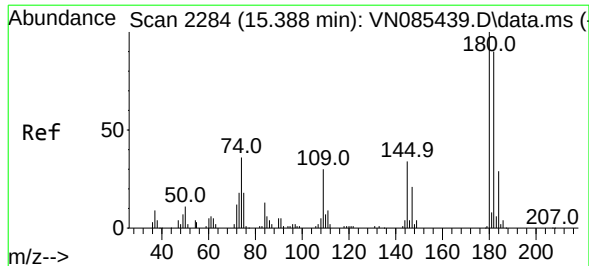
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 51.081 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 75 Resp: 36986
Ion Ratio Lower Upper
75 100
155 71.4 36.4 109.2
157 94.1 45.4 136.1





#93

1,2,4-Trichlorobenzene

Concen: 53.324 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. -0.000 min

Lab File: VN085463.D

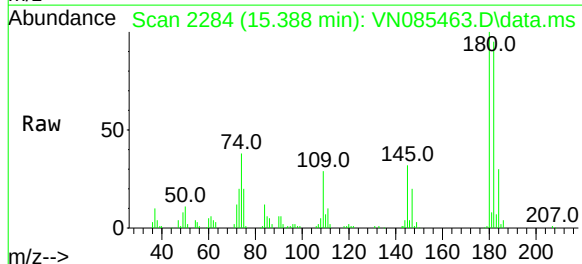
Acq: 15 Jan 2025 15:58

Instrument :

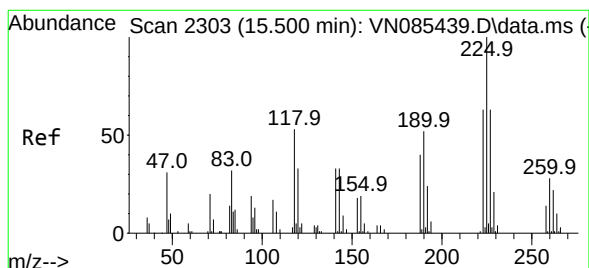
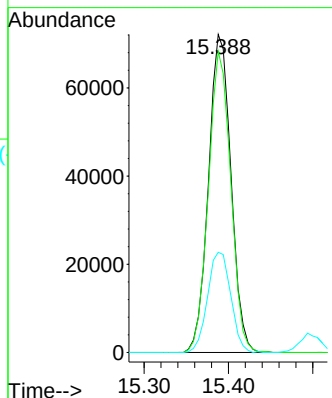
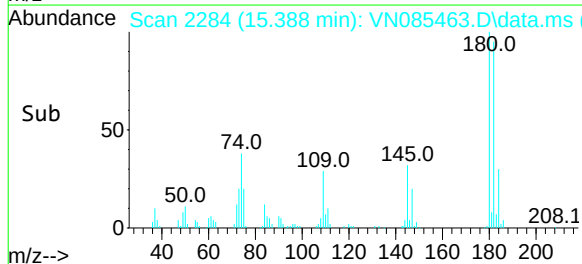
MSVOA_N

ClientSampleId :

VSTDCCC050EC



Tgt Ion:	180	Resp:	133515
Ion Ratio	Lower	Upper	
180	100		
182	94.2	46.8	140.3
145	32.5	16.0	48.0

Manual Integrations
APPROVEDReviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#94

Hexachlorobutadiene

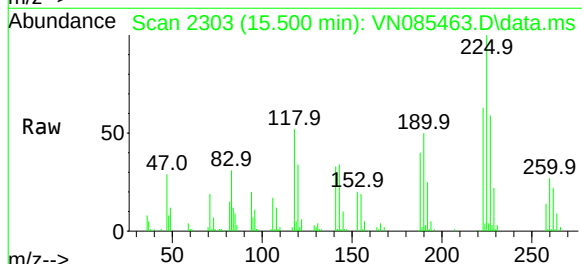
Concen: 48.771 ug/l

RT: 15.500 min Scan# 2303

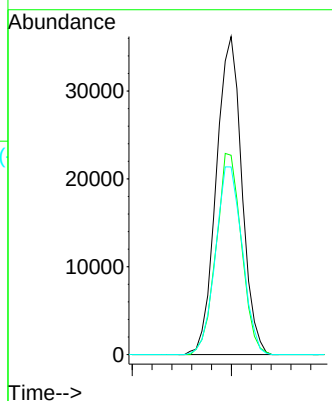
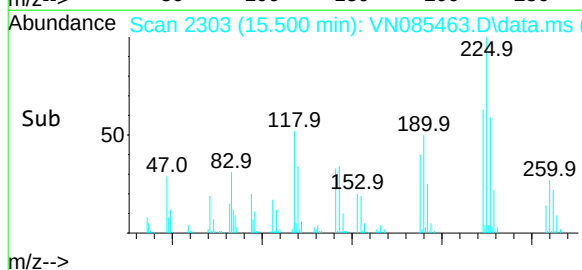
Delta R.T. -0.000 min

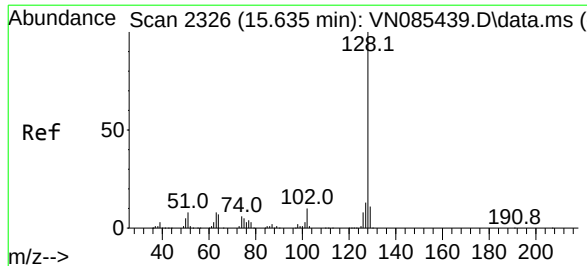
Lab File: VN085463.D

Acq: 15 Jan 2025 15:58



Tgt Ion:	225	Resp:	64832
Ion Ratio	Lower	Upper	
225	100		
223	62.7	30.7	92.1
227	61.7	30.9	92.5





#95

Naphthalene

Concen: 53.462 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.000 min

Lab File: VN085463.D

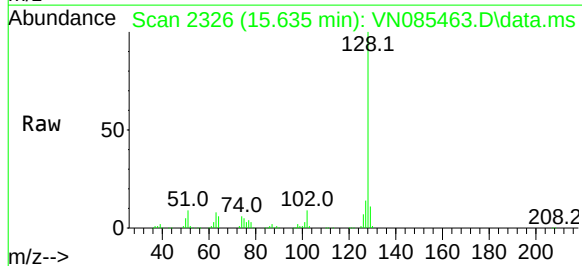
Acq: 15 Jan 2025 15:58

Instrument :

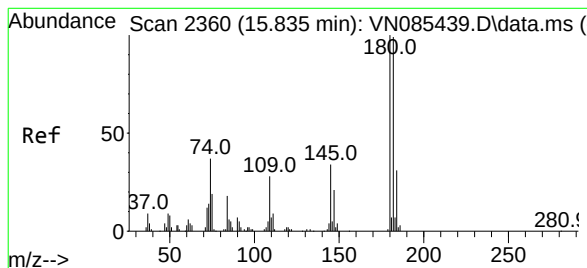
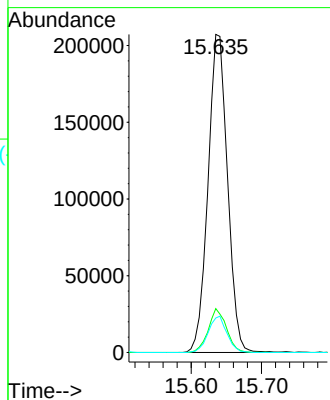
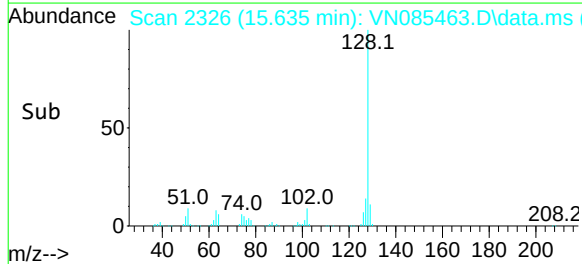
MSVOA_N

ClientSampleId :

VSTDCCC050EC



Tgt Ion:	128	Resp:	399446
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.6	16.0
129	11.0	8.8	13.2

Manual Integrations
APPROVEDReviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#96

1,2,3-Trichlorobenzene

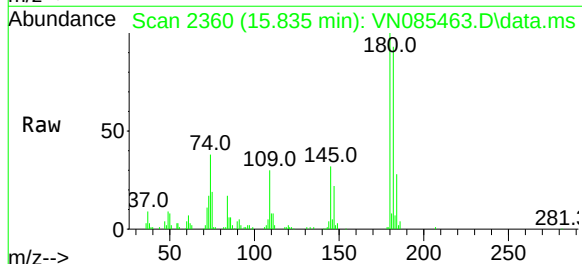
Concen: 50.856 ug/l

RT: 15.835 min Scan# 2360

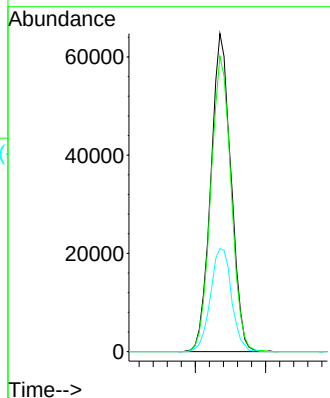
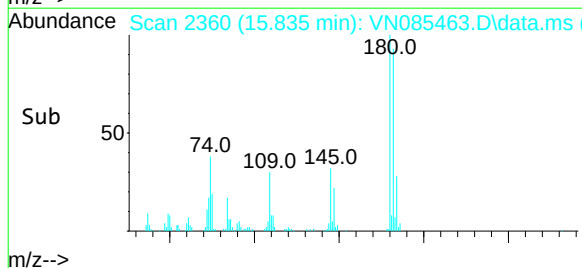
Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58



Tgt Ion:	180	Resp:	128843
Ion Ratio	Lower	Upper	
180	100		
182	93.6	47.4	142.2
145	34.0	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085463.D
 Acq On : 15 Jan 2025 15:58
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jan 16 01:00:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 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	110	0.00
2 T	Dichlorodifluoromethane	0.677	0.684	-1.0	119	0.00
3 P	Chloromethane	0.733	0.702	4.2	113	0.00
4 C	Vinyl Chloride	0.737	0.708	3.9#	113	0.00
5 T	Bromomethane	0.445	0.408	8.3	107	0.00
6 T	Chloroethane	0.467	0.455	2.6	118	0.00
7 T	Trichlorofluoromethane	1.069	1.073	-0.4	118	0.00
8 T	Diethyl Ether	0.369	0.360	2.4	110	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.602	0.611	-1.5	124	0.00
10 T	Methyl Iodide	0.690	0.723	-4.8	110	0.00
11 T	Tert butyl alcohol	0.092	0.098	-6.5	116	0.00
12 CM	1,1-Dichloroethene	0.537	0.553	-3.0#	114	0.00
13 T	Acrolein	0.126	0.144	-14.3	113	0.00
14 T	Allyl chloride	0.871	0.895	-2.8	116	0.00
15 T	Acrylonitrile	0.294	0.309	-5.1	114	0.00
16 T	Acetone	0.261	0.262	-0.4	114	0.00
17 T	Carbon Disulfide	1.652	1.549	6.2	115	0.00
18 T	Methyl Acetate	0.793	0.822	-3.7	114	0.00
19 T	Methyl tert-butyl Ether	1.742	1.940	-11.4	114	0.00
20 T	Methylene Chloride	0.646	0.639	1.1	111	0.00
21 T	trans-1,2-Dichloroethene	0.573	0.583	-1.7	115	0.00
22 T	Diisopropyl ether	1.933	2.137	-10.6	115	0.00
23 T	Vinyl Acetate	1.353	1.585	-17.1	116	0.00
24 P	1,1-Dichloroethane	1.178	1.209	-2.6	113	0.00
25 T	2-Butanone	0.384	0.414	-7.8	116	0.00
26 T	2,2-Dichloropropane	0.953	1.083	-13.6	127	0.00
27 T	cis-1,2-Dichloroethene	0.675	0.710	-5.2	114	0.00
28 T	Bromochloromethane	0.548	0.546	0.4	110	0.00
29 T	Tetrahydrofuran	0.243	0.277	-14.0	117	0.00
30 C	Chloroform	1.218	1.244	-2.1#	116	0.00
31 T	Cyclohexane	1.024	0.999	2.4	124	0.00
32 T	1,1,1-Trichloroethane	1.068	1.085	-1.6	117	0.00
33 S	1,2-Dichloroethane-d4	0.807	0.841	-4.2	111	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	110	0.00
35 S	Dibromofluoromethane	0.347	0.359	-3.5	110	0.00
36 T	1,1-Dichloropropene	0.487	0.492	-1.0	117	0.00
37 T	Ethyl Acetate	0.491	0.499	-1.6	113	0.00
38 T	Carbon Tetrachloride	0.557	0.568	-2.0	118	0.00
39 T	Methylcyclohexane	0.457	0.526	-15.1	125	0.00
40 TM	Benzene	1.463	1.516	-3.6	115	0.00
41 T	Methacrylonitrile	0.256	0.281	-9.8	115	0.00
42 TM	1,2-Dichloroethane	0.551	0.569	-3.3	115	0.00
43 T	Isopropyl Acetate	0.787	0.907	-15.2	123	0.00
44 TM	Trichloroethene	0.341	0.335	1.8	114	0.00
45 C	1,2-Dichloropropane	0.374	0.381	-1.9#	113	0.00
46 T	Dibromomethane	0.270	0.268	0.7	111	0.00
47 T	Bromodichloromethane	0.549	0.580	-5.6	114	0.00
48 T	Methyl methacrylate	0.354	0.410	-15.8	115	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085463.D
 Acq On : 15 Jan 2025 15:58
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jan 16 01:00:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.006	0.006	0.0	101	0.00
50 S	Toluene-d8	1.232	1.331	-8.0	116	0.00
51 T	4-Methyl-2-Pentanone	0.457	0.517	-13.1	116	0.00
52 CM	Toluene	0.848	0.933	-10.0#	118	0.00
53 T	t-1,3-Dichloropropene	0.519	0.581	-11.9	116	0.00
54 T	cis-1,3-Dichloropropene	0.554	0.617	-11.4	116	0.00
55 T	1,1,2-Trichloroethane	0.335	0.347	-3.6	113	0.00
56 T	Ethyl methacrylate	0.469	0.564	-20.3	114	0.00
57 T	1,3-Dichloropropane	0.583	0.622	-6.7	114	0.00
58 T	2-Chloroethyl Vinyl ether	0.213	0.247	-16.0	113	0.00
59 T	2-Hexanone	0.321	0.376	-17.1	116	0.00
60 T	Dibromochloromethane	0.405	0.424	-4.7	113	0.00
61 T	1,2-Dibromoethane	0.334	0.341	-2.1	112	0.00
62 S	4-Bromofluorobenzene	0.422	0.473	-12.1	116	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	111	0.00
64 T	Tetrachloroethene	0.341	0.322	5.6	111	0.00
65 PM	Chlorobenzene	1.095	1.124	-2.6	116	0.00
66 T	1,1,1,2-Tetrachloroethane	0.402	0.405	-0.7	115	0.00
67 C	Ethyl Benzene	1.784	2.015	-12.9#	120	0.00
68 T	m/p-Xylenes	0.659	0.755	-14.6	119	0.00
69 T	o-Xylene	0.630	0.715	-13.5	117	0.00
70 T	Styrene	1.043	1.237	-18.6	117	0.00
71 P	Bromoform	0.288	0.318	-10.4	114	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	113	0.00
73 T	Isopropylbenzene	3.375	3.695	-9.5	122	0.00
74 T	N-amyl acetate	1.517	1.706	-12.5	119	0.00
75 P	1,1,2,2-Tetrachloroethane	1.192	1.175	1.4	116	0.00
76 T	1,2,3-Trichloropropane	1.016	0.930	8.5	118	0.00
77 T	Bromobenzene	0.882	0.883	-0.1	117	0.00
78 T	n-propylbenzene	3.995	4.500	-12.6	123	0.00
79 T	2-Chlorotoluene	2.586	2.707	-4.7	119	0.00
80 T	1,3,5-Trimethylbenzene	2.787	3.149	-13.0	122	0.00
81 T	trans-1,4-Dichloro-2-butene	0.376	0.425	-13.0	124	0.00
82 T	4-Chlorotoluene	2.574	2.764	-7.4	121	0.00
83 T	tert-Butylbenzene	2.341	2.632	-12.4	122	0.00
84 T	1,2,4-Trimethylbenzene	2.778	3.194	-15.0	120	0.00
85 T	sec-Butylbenzene	3.244	3.767	-16.1	125	0.00
86 T	p-Isopropyltoluene	2.631	3.157	-20.0	125	0.00
87 T	1,3-Dichlorobenzene	1.624	1.668	-2.7	121	0.00
88 T	1,4-Dichlorobenzene	1.683	1.639	2.6	119	0.00
89 T	n-Butylbenzene	2.327	2.737	-17.6	125	0.00
90 T	Hexachloroethane	0.618	0.624	-1.0	123	0.00
91 T	1,2-Dichlorobenzene	1.620	1.603	1.0	117	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.218	0.222	-1.8	114	0.00
93 T	1,2,4-Trichlorobenzene	0.753	0.803	-6.6	117	0.00
94 T	Hexachlorobutadiene	0.400	0.390	2.5	120	0.00
95 T	Naphthalene	2.246	2.402	-6.9	110	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085463.D
Acq On : 15 Jan 2025 15:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jan 16 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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	0.762	0.775	-1.7	112	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085463.D
 Acq On : 15 Jan 2025 15:58
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jan 16 01:00:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 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	110	0.00
2 T	Dichlorodifluoromethane	50.000	50.545	-1.1	119	0.00
3 P	Chloromethane	50.000	47.865	4.3	113	0.00
4 C	Vinyl Chloride	50.000	48.017	4.0#	113	0.00
5 T	Bromomethane	50.000	45.833	8.3	107	0.00
6 T	Chloroethane	50.000	48.718	2.6	118	0.00
7 T	Trichlorofluoromethane	50.000	50.203	-0.4	118	0.00
8 T	Diethyl Ether	50.000	48.714	2.6	110	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	50.730	-1.5	124	0.00
10 T	Methyl Iodide	50.000	52.443	-4.9	110	0.00
11 T	Tert butyl alcohol	250.000	266.406	-6.6	116	0.00
12 CM	1,1-Dichloroethene	50.000	51.524	-3.0#	114	0.00
13 T	Acrolein	250.000	284.383	-13.8	113	0.00
14 T	Allyl chloride	50.000	51.384	-2.8	116	0.00
15 T	Acrylonitrile	250.000	262.738	-5.1	114	0.00
16 T	Acetone	250.000	251.190	-0.5	114	0.00
17 T	Carbon Disulfide	50.000	46.862	6.3	115	0.00
18 T	Methyl Acetate	50.000	51.803	-3.6	114	0.00
19 T	Methyl tert-butyl Ether	50.000	55.672	-11.3	114	0.00
20 T	Methylene Chloride	50.000	49.455	1.1	111	0.00
21 T	trans-1,2-Dichloroethene	50.000	50.805	-1.6	115	0.00
22 T	Diisopropyl ether	50.000	55.286	-10.6	115	0.00
23 T	Vinyl Acetate	250.000	292.883	-17.2	116	0.00
24 P	1,1-Dichloroethane	50.000	51.287	-2.6	113	0.00
25 T	2-Butanone	250.000	269.467	-7.8	116	0.00
26 T	2,2-Dichloropropane	50.000	56.857	-13.7	127	0.00
27 T	cis-1,2-Dichloroethene	50.000	52.557	-5.1	114	0.00
28 T	Bromochloromethane	50.000	49.837	0.3	110	0.00
29 T	Tetrahydrofuran	250.000	284.562	-13.8	117	0.00
30 C	Chloroform	50.000	51.054	-2.1#	116	0.00
31 T	Cyclohexane	50.000	48.757	2.5	124	0.00
32 T	1,1,1-Trichloroethane	50.000	50.757	-1.5	117	0.00
33 S	1,2-Dichloroethane-d4	50.000	52.114	-4.2	111	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	110	0.00
35 S	Dibromofluoromethane	50.000	51.677	-3.4	110	0.00
36 T	1,1-Dichloropropene	50.000	50.562	-1.1	117	0.00
37 T	Ethyl Acetate	50.000	50.810	-1.6	113	0.00
38 T	Carbon Tetrachloride	50.000	50.991	-2.0	118	0.00
39 T	Methylcyclohexane	50.000	57.436	-14.9	125	0.00
40 TM	Benzene	50.000	51.821	-3.6	115	0.00
41 T	Methacrylonitrile	50.000	54.981	-10.0	115	0.00
42 TM	1,2-Dichloroethane	50.000	51.629	-3.3	115	0.00
43 T	Isopropyl Acetate	50.000	57.599	-15.2	123	0.00
44 TM	Trichloroethene	50.000	49.260	1.5	114	0.00
45 C	1,2-Dichloropropane	50.000	51.043	-2.1#	113	0.00
46 T	Dibromomethane	50.000	49.750	0.5	111	0.00
47 T	Bromodichloromethane	50.000	52.814	-5.6	114	0.00
48 T	Methyl methacrylate	50.000	57.796	-15.6	115	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085463.D
 Acq On : 15 Jan 2025 15:58
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jan 16 01:00:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 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	972.836	2.7	101	0.00
50 S	Toluene-d8	50.000	54.009	-8.0	116	0.00
51 T	4-Methyl-2-Pentanone	250.000	282.679	-13.1	116	0.00
52 CM	Toluene	50.000	55.032	-10.1#	118	0.00
53 T	t-1,3-Dichloropropene	50.000	55.946	-11.9	116	0.00
54 T	cis-1,3-Dichloropropene	50.000	55.661	-11.3	116	0.00
55 T	1,1,2-Trichloroethane	50.000	51.759	-3.5	113	0.00
56 T	Ethyl methacrylate	50.000	49.885	0.2	114	0.00
57 T	1,3-Dichloropropane	50.000	53.338	-6.7	114	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	290.228	-16.1	113	0.00
59 T	2-Hexanone	250.000	292.136	-16.9	116	0.00
60 T	Dibromochloromethane	50.000	52.339	-4.7	113	0.00
61 T	1,2-Dibromoethane	50.000	51.040	-2.1	112	0.00
62 S	4-Bromofluorobenzene	50.000	56.127	-12.3	116	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	111	0.00
64 T	Tetrachloroethene	50.000	47.207	5.6	111	0.00
65 PM	Chlorobenzene	50.000	51.313	-2.6	116	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.351	-0.7	115	0.00
67 C	Ethyl Benzene	50.000	56.469	-12.9#	120	0.00
68 T	m/p-Xylenes	100.000	114.541	-14.5	119	0.00
69 T	o-Xylene	50.000	56.724	-13.4	117	0.00
70 T	Styrene	50.000	59.312	-18.6	117	0.00
71 P	Bromoform	50.000	55.344	-10.7	114	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	113	0.00
73 T	Isopropylbenzene	50.000	54.752	-9.5	122	0.00
74 T	N-amyl acetate	50.000	56.244	-12.5	119	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.296	1.4	116	0.00
76 T	1,2,3-Trichloropropane	50.000	45.748	8.5	118	0.00
77 T	Bromobenzene	50.000	50.075	-0.2	117	0.00
78 T	n-propylbenzene	50.000	56.324	-12.6	123	0.00
79 T	2-Chlorotoluene	50.000	52.351	-4.7	119	0.00
80 T	1,3,5-Trimethylbenzene	50.000	56.485	-13.0	122	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	56.580	-13.2	124	0.00
82 T	4-Chlorotoluene	50.000	53.678	-7.4	121	0.00
83 T	tert-Butylbenzene	50.000	56.211	-12.4	122	0.00
84 T	1,2,4-Trimethylbenzene	50.000	57.491	-15.0	120	0.00
85 T	sec-Butylbenzene	50.000	58.063	-16.1	125	0.00
86 T	p-Isopropyltoluene	50.000	53.560	-7.1	125	0.00
87 T	1,3-Dichlorobenzene	50.000	51.364	-2.7	121	0.00
88 T	1,4-Dichlorobenzene	50.000	48.694	2.6	119	0.00
89 T	n-Butylbenzene	50.000	58.802	-17.6	125	0.00
90 T	Hexachloroethane	50.000	50.491	-1.0	123	0.00
91 T	1,2-Dichlorobenzene	50.000	49.494	1.0	117	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	51.081	-2.2	114	0.00
93 T	1,2,4-Trichlorobenzene	50.000	53.324	-6.6	117	0.00
94 T	Hexachlorobutadiene	50.000	48.771	2.5	120	0.00
95 T	Naphthalene	50.000	53.462	-6.9	110	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085463.D
Acq On : 15 Jan 2025 15:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jan 16 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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	50.856	-1.7	112	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6



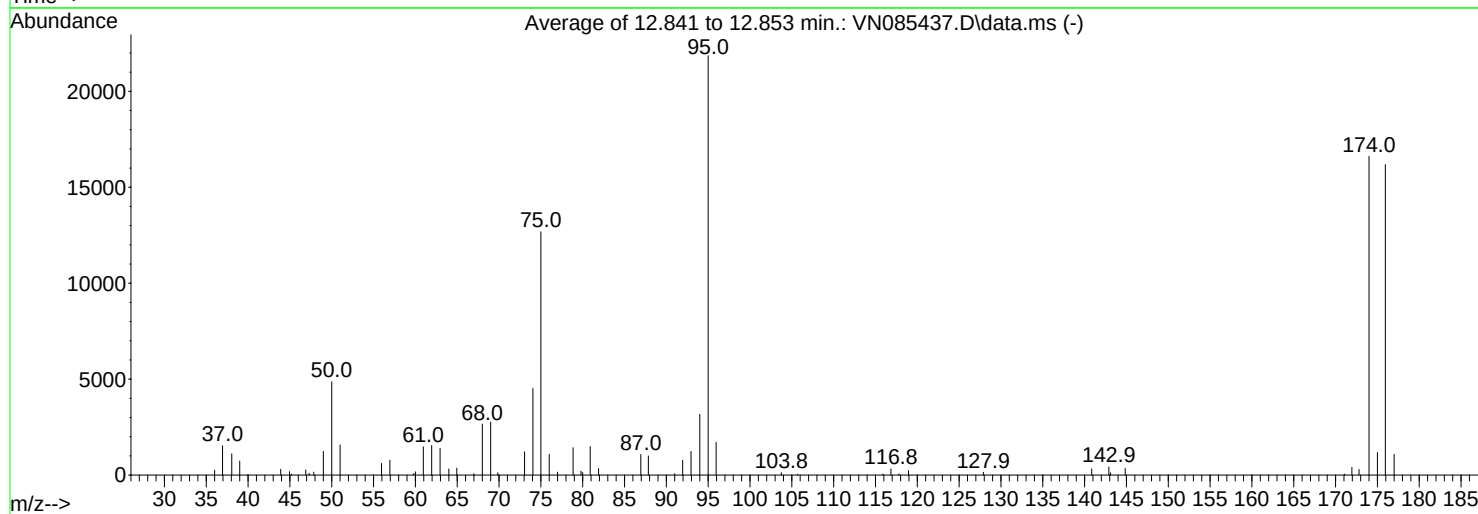
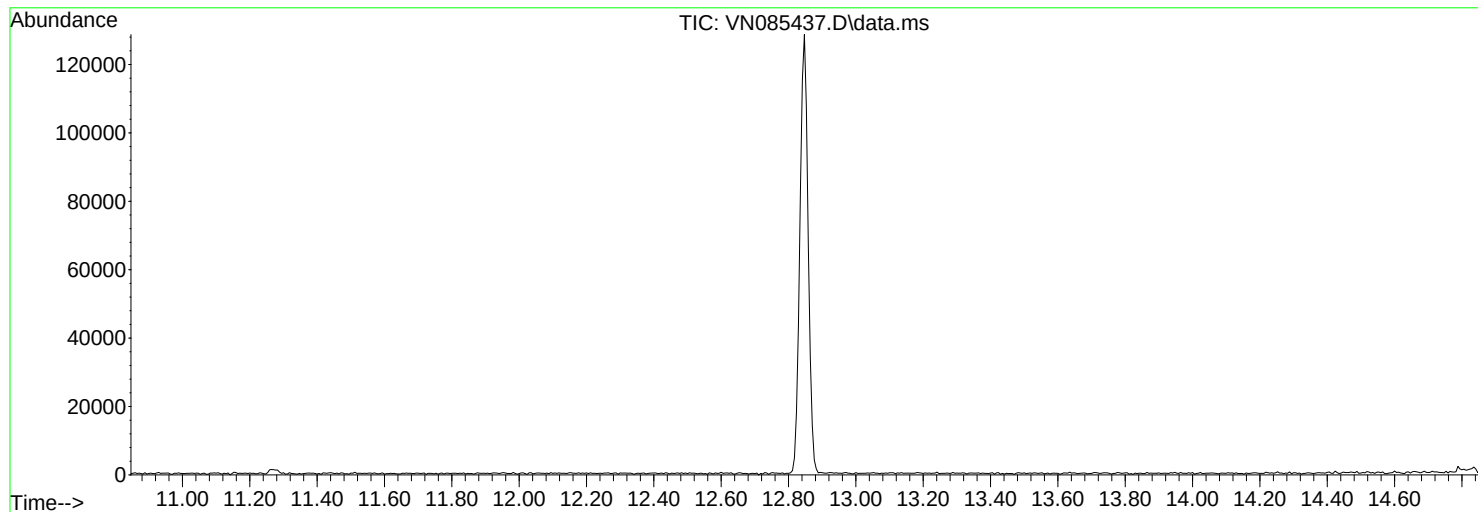
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085437.D
Acq On : 14 Jan 2025 14:22
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Title : SW846 8260
Last Update : Wed Jan 15 02:16:08 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.3	4864	PASS
75	95	30	60	58.0	12679	PASS
95	95	100	100	100.0	21856	PASS
96	95	5	9	7.8	1703	PASS
173	174	0.00	2	1.8	296	PASS
174	95	50	100	76.0	16613	PASS
175	174	5	9	7.1	1179	PASS
176	174	95	101	97.4	16185	PASS
177	176	5	9	6.7	1079	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	254	49.00	1237	64.95	364	79.80	211
36.95	1525	50.00	4864	67.00	71	80.00	136
38.05	1107	51.00	1571	68.00	2658	80.90	1487
39.00	730	55.95	608	69.00	2763	81.90	338
39.90	5	56.95	779	69.85	123	86.95	1072
43.90	302	59.80	76	73.05	1212	87.85	997
44.95	180	60.00	170	74.05	4514	91.00	68
45.20	50	60.95	1471	75.00	12679	91.95	773
46.90	269	61.95	1539	76.00	1086	92.95	1234
47.30	94	62.95	1390	77.00	153	94.00	3163
47.85	154	64.00	325	78.85	1426	95.00	21856

Average of 12.841 to 12.853 min.: VN085437.D\data.ms

BFB

Modified:subtracted

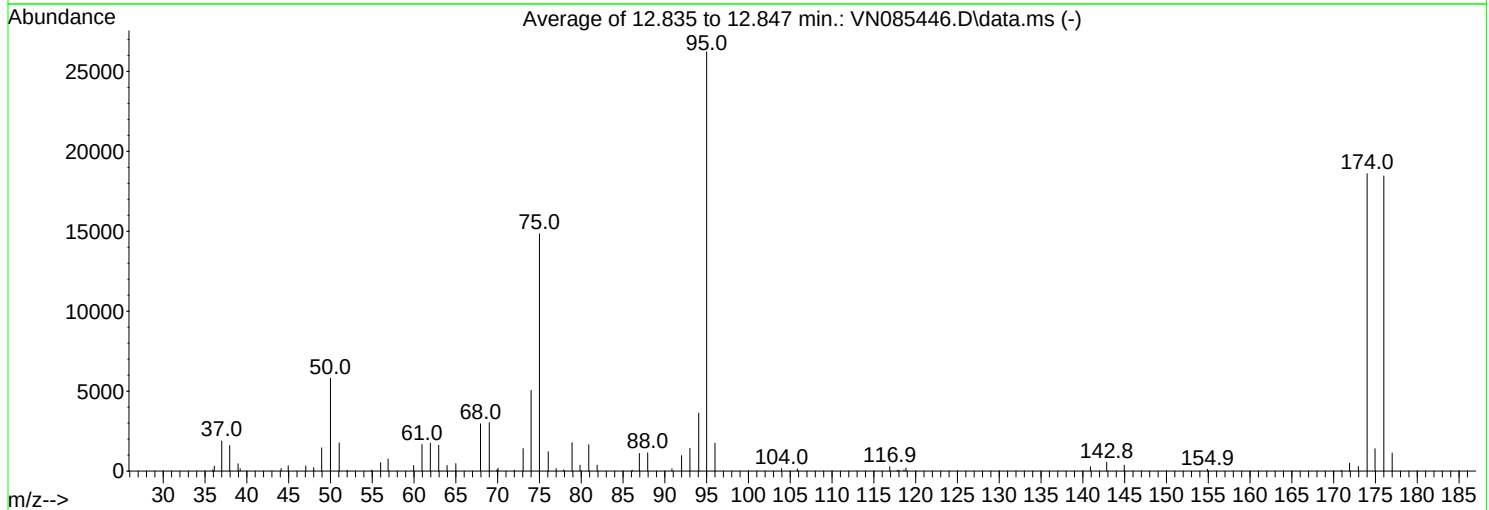
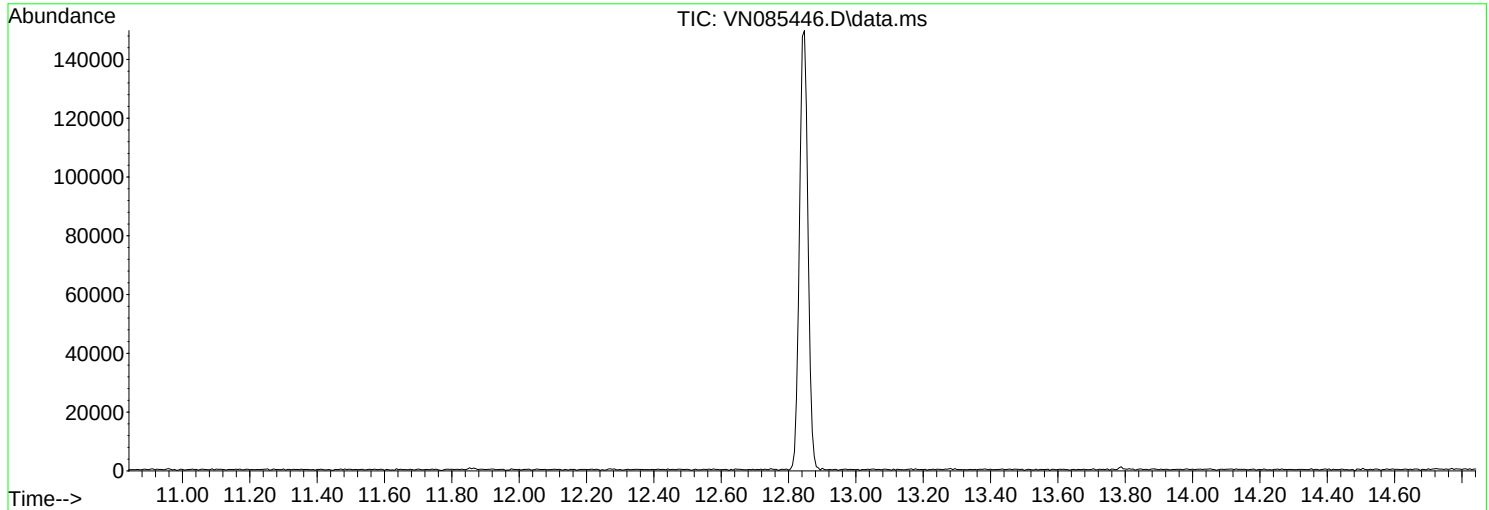
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.95	1703	144.85	346				
103.75	127	171.10	56				
105.70	51	171.95	407				
115.90	59	172.80	296				
116.85	327	174.00	16613				
117.80	58	175.00	1179				
118.95	233	175.95	16185				
127.90	145	177.00	1079				
140.85	328						
142.90	422						
143.10	115						

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085446.D
Acq On : 15 Jan 2025 08:25
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\82N011425W.M
Title : SW846 8260
Last Update : Wed Jan 15 02:16:08 2025



AutoFind: Scans 1850, 1851, 1852; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.1	5803	PASS
75	95	30	60	56.6	14841	PASS
95	95	100	100	100.0	26229	PASS
96	95	5	9	6.7	1751	PASS
173	174	0.00	2	1.5	282	PASS
174	95	50	100	70.9	18601	PASS
175	174	5	9	7.5	1400	PASS
176	174	95	101	99.2	18460	PASS
177	176	5	9	6.1	1123	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	68	50.00	5803	65.00	470	77.90	74
36.10	301	51.05	1765	67.95	2957	78.90	1776
37.00	1886	52.00	51	69.00	3028	79.85	366
37.95	1600	54.90	57	69.90	78	80.90	1647
38.95	455	56.00	526	70.05	183	81.90	371
39.20	148	56.90	756	72.00	63	86.10	50
44.10	162	59.95	348	73.05	1410	86.95	1098
44.95	335	60.95	1665	74.00	5045	87.95	1141
47.05	324	61.95	1750	75.00	14841	90.85	141
48.00	215	62.95	1619	76.05	1214	92.00	968
48.95	1451	63.95	348	77.00	157	93.00	1420

Average of 12.835 to 12.847 min.: VN085446.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.05	3627	142.85	553				
95.00	26229	144.95	368				
96.00	1751	154.90	115				
103.95	154	170.90	51				
105.85	141	171.90	499				
116.90	277	172.95	282				
117.80	60	174.00	18601				
118.00	50	174.95	1400				
118.60	78	176.00	18460				
118.85	195	177.00	1123				
140.90	275						

Instrument :

MSVOA_N

ClientSampleId :

BFB

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:			
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:			
Client Sample ID:	VN0115WBL01			SDG No.:	Q1062		
Lab Sample ID:	VN0115WBL01			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	RXI-624	ID :	0.25	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085449.D	1		01/15/25 10:05	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VN0115WBL01	SDG No.:	Q1062
Lab Sample ID:	VN0115WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085449.D	1		01/15/25 10:05	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.1		81 - 118		110%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	50.1		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.1		85 - 114		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	195000	8.218				
540-36-3	1,4-Difluorobenzene	361000	9.1				
3114-55-4	Chlorobenzene-d5	320000	11.859				
3855-82-1	1,4-Dichlorobenzene-d4	131000	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\VN011525\
 Data File : VN085449.D
 Acq On : 15 Jan 2025 10:05
 Operator : JC\MD
 Sample : VN0115WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBL01

Quant Time: Jan 16 00:53:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	195111	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	360723	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	319974	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130534	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	173401	55.057	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	110.120%	
35) Dibromofluoromethane	8.165	113	129916	51.914	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	103.820%	
50) Toluene-d8	10.565	98	445519	50.107	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	100.220%	
62) 4-Bromofluorobenzene	12.847	95	149204	49.055	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	98.120%	

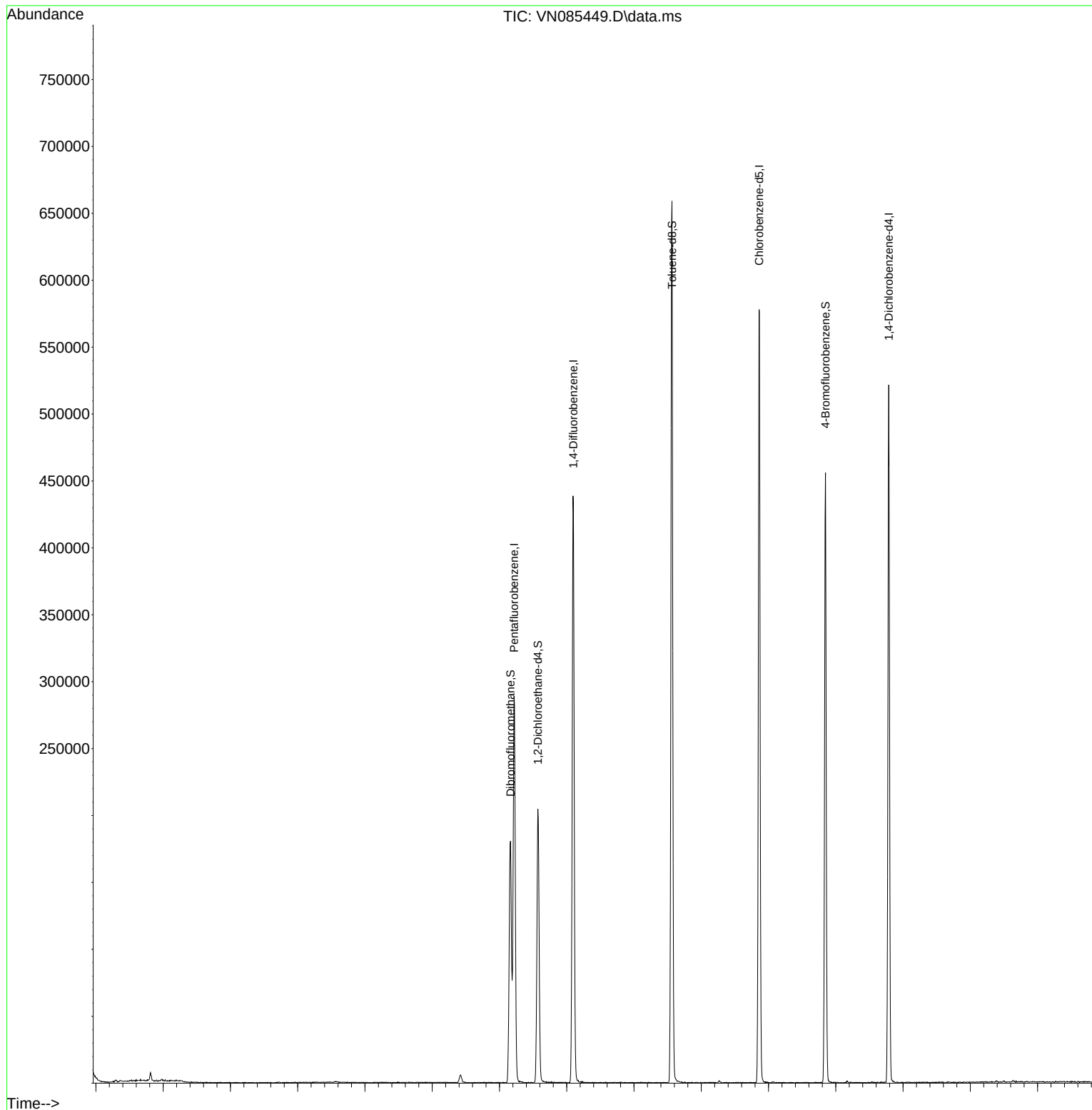
Target Compounds Qvalue

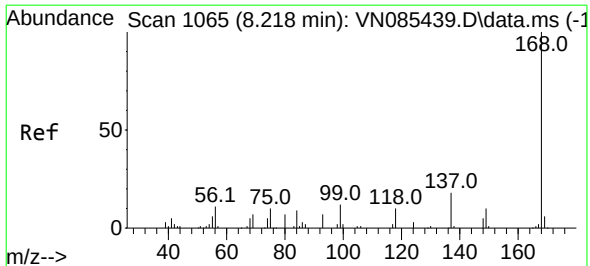
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085449.D
Acq On : 15 Jan 2025 10:05
Operator : JC\MD
Sample : VN0115WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBL01

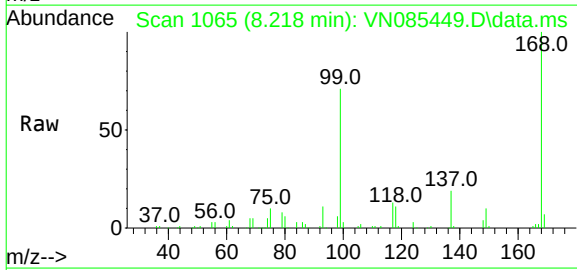
Quant Time: Jan 16 00:53:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration



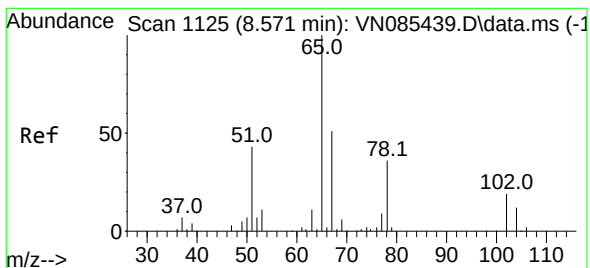
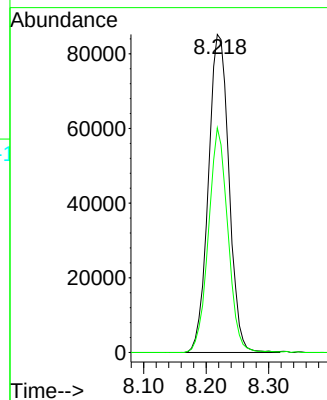
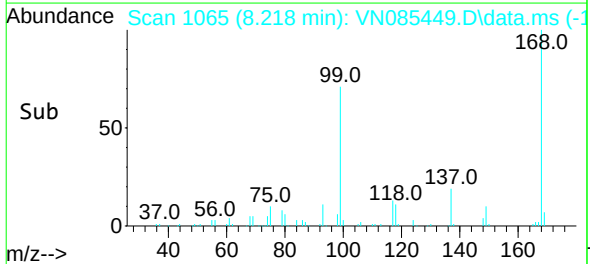


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085449.D
Acq: 15 Jan 2025 10:05

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBL01

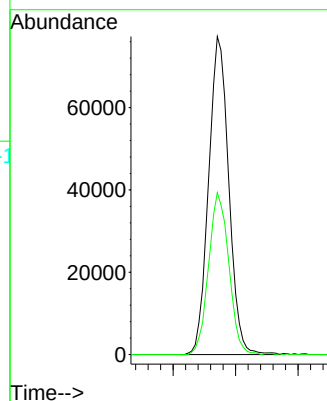
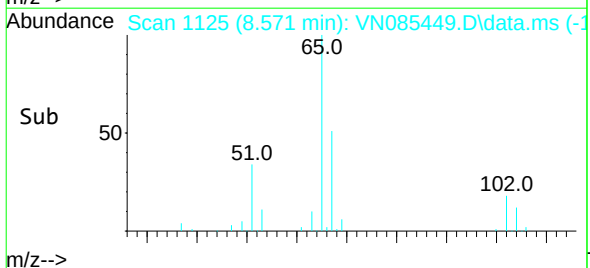
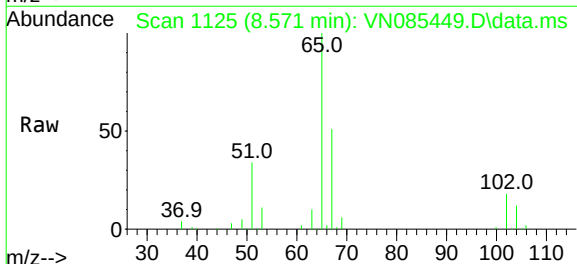


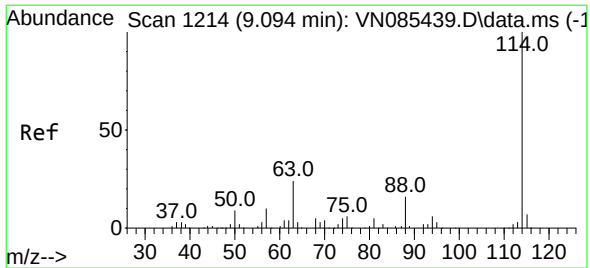
Tgt Ion:168 Resp: 195111
Ion Ratio Lower Upper
168 100
99 70.6 53.6 80.4



#33
1,2-Dichloroethane-d4
Concen: 55.057 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.000 min
Lab File: VN085449.D
Acq: 15 Jan 2025 10:05

Tgt Ion: 65 Resp: 173401
Ion Ratio Lower Upper
65 100
67 51.0 0.0 101.6

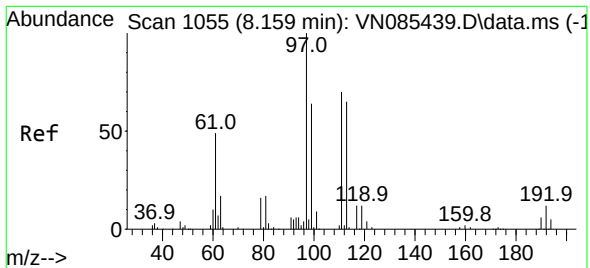
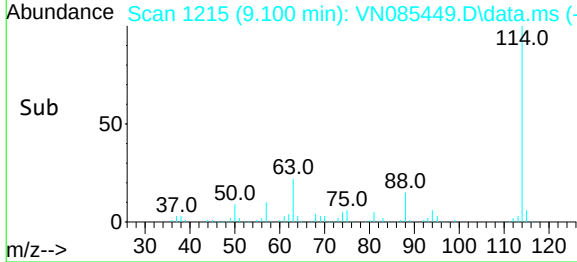
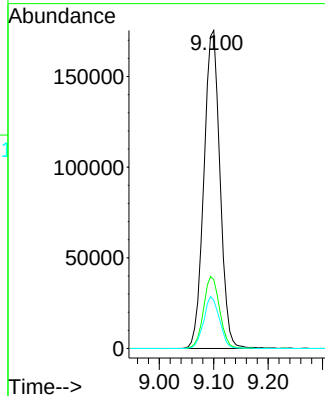
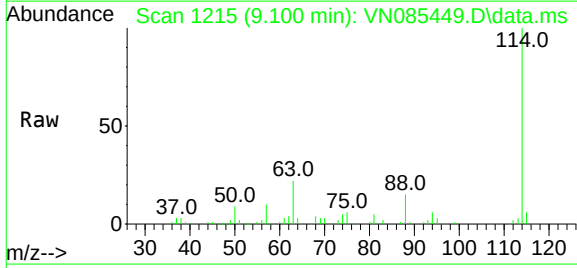




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VN085449.D
Acq: 15 Jan 2025 10:05

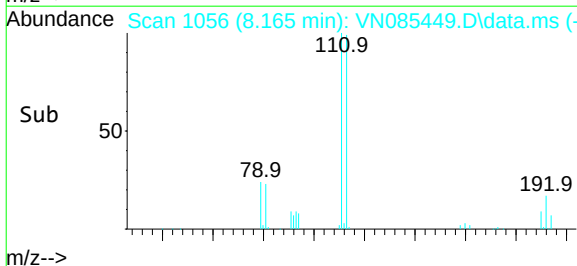
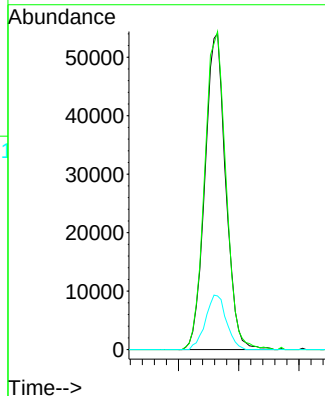
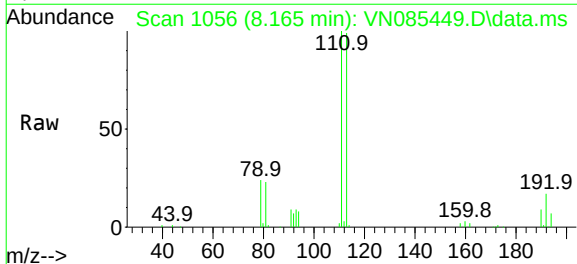
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBL01

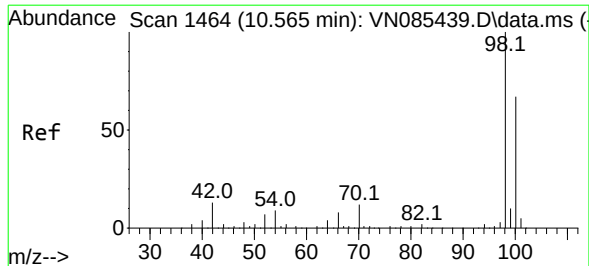
Tgt Ion:	114	Resp:	360723
Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	47.6
88	15.1	0.0	32.6



#35
Dibromofluoromethane
Concen: 51.914 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085449.D
Acq: 15 Jan 2025 10:05

Tgt Ion:	113	Resp:	129916
Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.7	124.1
192	17.2	14.3	21.5





#50

Toluene-d8

Concen: 50.107 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085449.D

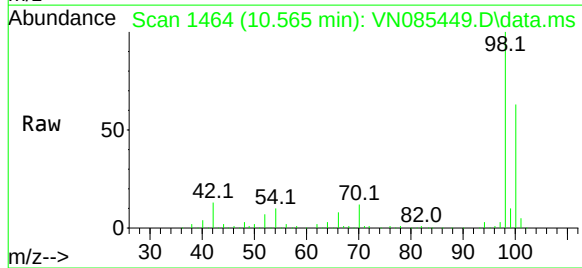
Acq: 15 Jan 2025 10:05

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBL01

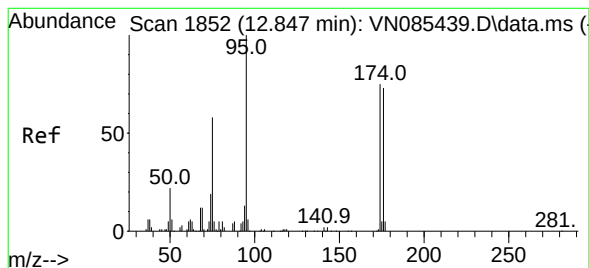
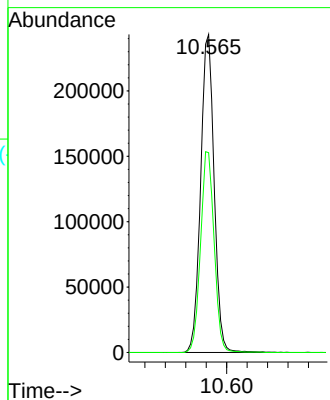
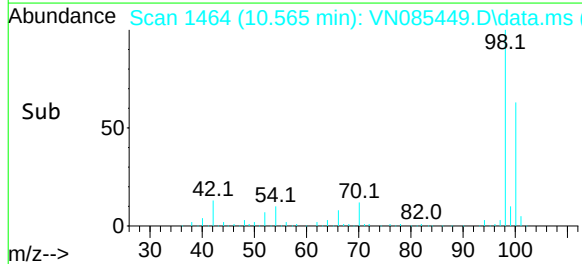


Tgt Ion: 98 Resp: 445519

Ion Ratio Lower Upper

98 100

100 63.5 52.2 78.4



#62

4-Bromofluorobenzene

Concen: 49.055 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN085449.D

Acq: 15 Jan 2025 10:05

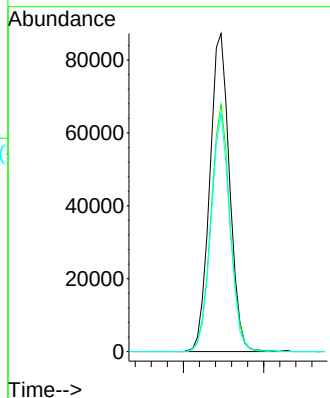
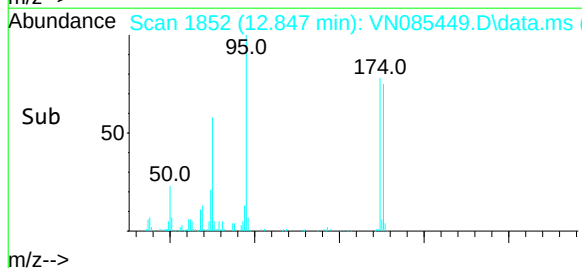
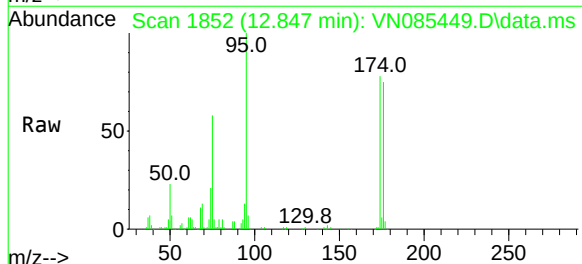
Tgt Ion: 95 Resp: 149204

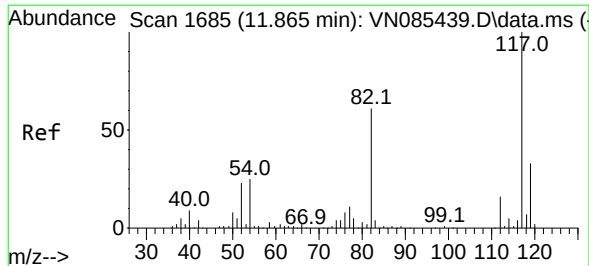
Ion Ratio Lower Upper

95 100

174 75.4 0.0 145.0

176 71.3 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.859 min Scan# 16

Delta R.T. -0.006 min

Lab File: VN085449.D

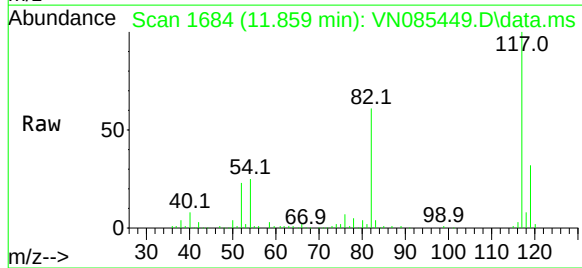
Acq: 15 Jan 2025 10:05

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBL01



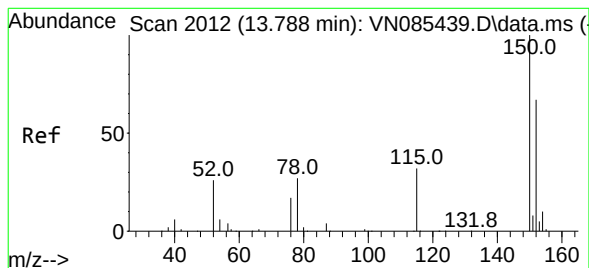
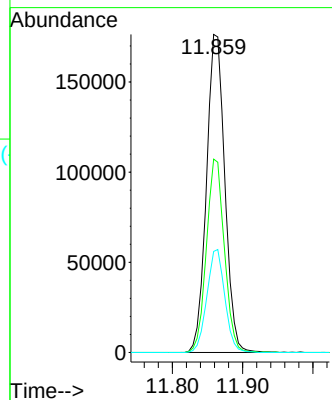
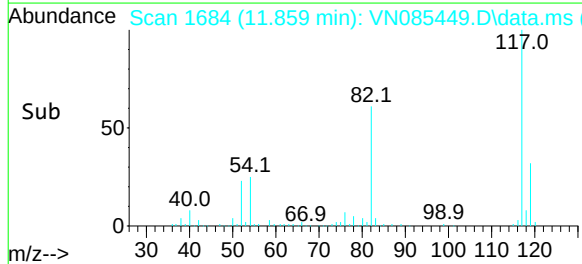
Tgt Ion:117 Resp: 319974

Ion Ratio Lower Upper

117 100

82 60.8 48.6 72.8

119 31.8 26.6 39.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085449.D

Acq: 15 Jan 2025 10:05

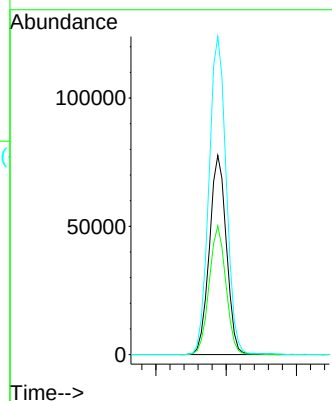
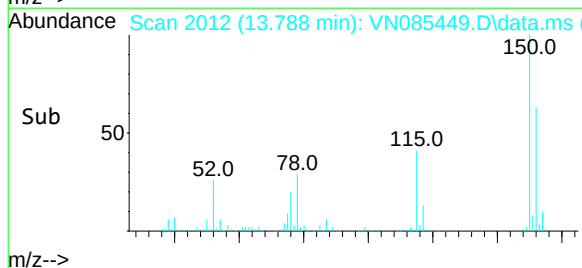
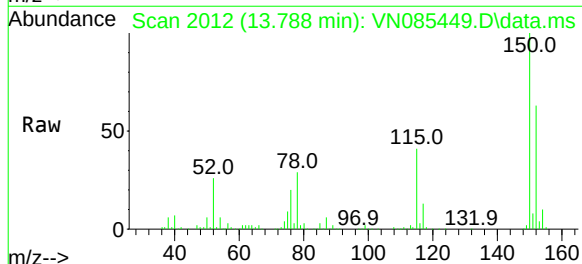
Tgt Ion:152 Resp: 130534

Ion Ratio Lower Upper

152 100

115 63.5 31.1 93.3

150 162.1 0.0 343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085449.D
Acq On : 15 Jan 2025 10:05
Operator : JC\MD
Sample : VN0115WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M

Title : SW846 8260

Signal : TIC: VN085449.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.424	921	930	940	rBV2	5847	15794	1.31%	0.249%
2	8.165	1046	1056	1060	rBV	180742	440963	36.53%	6.945%
3	8.218	1060	1065	1078	rVB	288383	641210	53.12%	10.099%
4	8.571	1115	1125	1138	rBV	204455	463778	38.42%	7.305%
5	9.094	1205	1214	1225	rBV	438702	900841	74.63%	14.188%
6	10.565	1456	1464	1478	rBV	658553	1207121	100.00%	19.012%
7	11.859	1676	1684	1698	rBV	577768	1045316	86.60%	16.464%
8	12.847	1843	1852	1862	rBV	455849	765121	63.38%	12.051%
9	13.788	2004	2012	2023	rBV	521223	868998	71.99%	13.687%

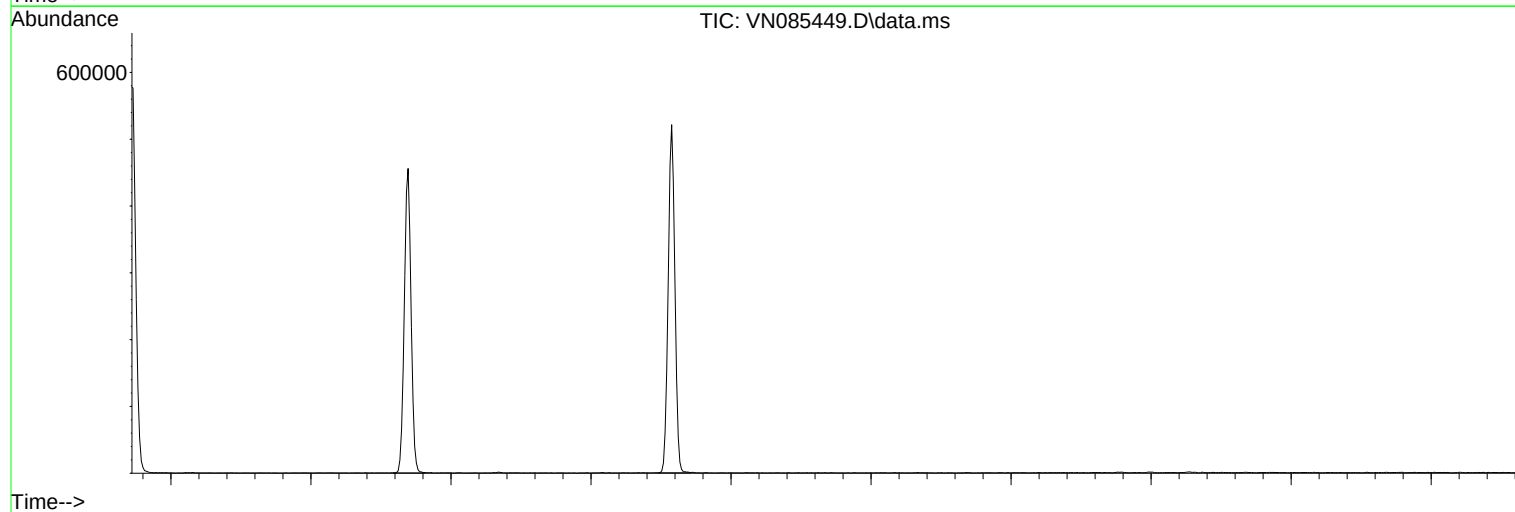
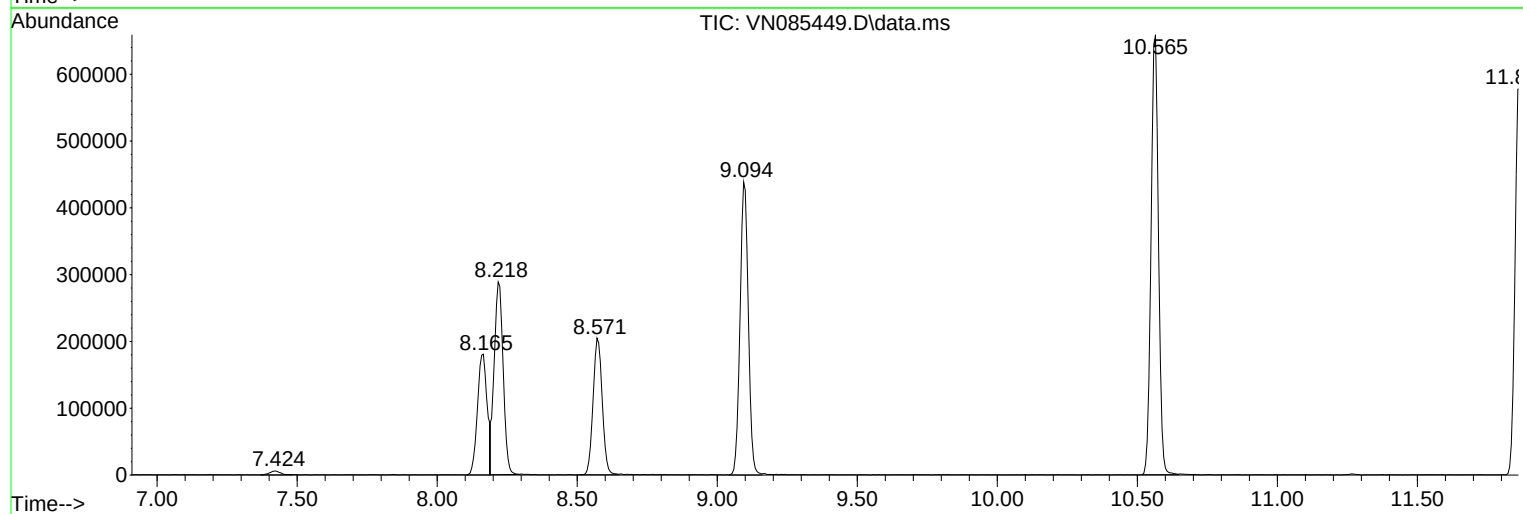
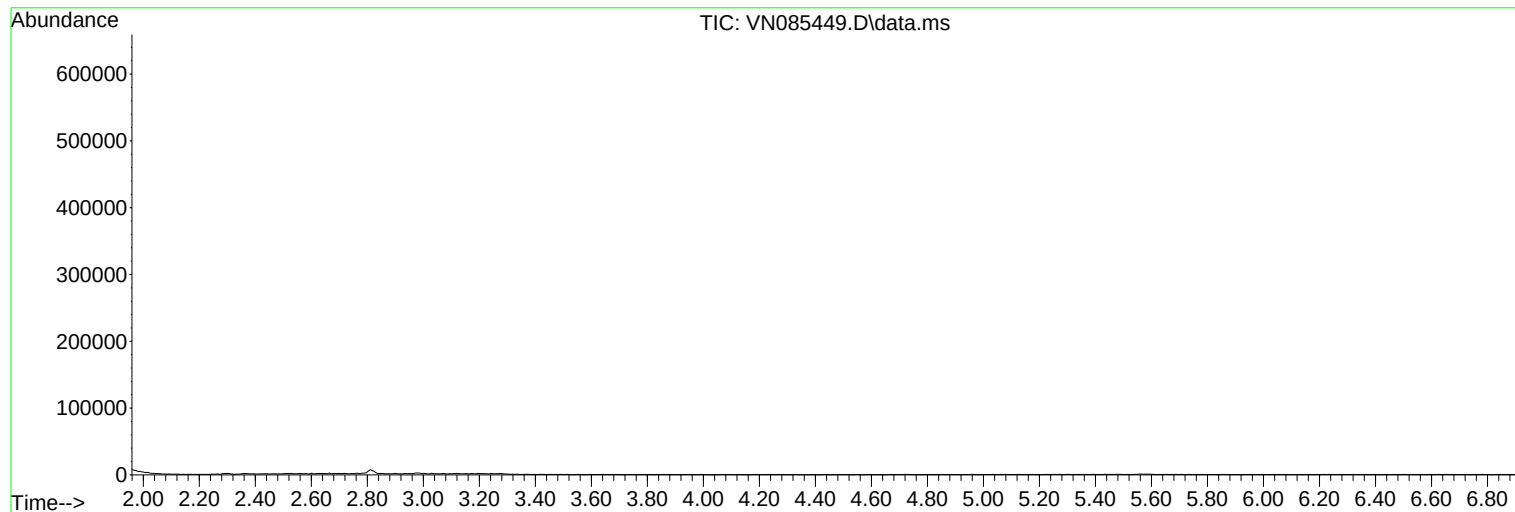
Sum of corrected areas: 6349142

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085449.D
Acq On : 15 Jan 2025 10:05
Operator : JC\MD
Sample : VN0115WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085449.D
Acq On : 15 Jan 2025 10:05
Operator : JC\MD
Sample : VN0115WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085449.D
Acq On : 15 Jan 2025 10:05
Operator : JC\MD
Sample : VN0115WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--
				#	RT Resp Conc

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VN0115WBS01	SDG No.:	Q1062
Lab Sample ID:	VN0115WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085450.D	1		01/15/25 10:29	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	18.5		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	18.2		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	18.5		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	17.8		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.7		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.0		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.6		0.26	0.75	1.00	ug/L
67-64-1	Acetone	87.7		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	17.4		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.7		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	18.2		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.6		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.6		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	91.2		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.0		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.7		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	18.4		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.6		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	19.8		0.19	0.50	1.00	ug/L
71-43-2	Benzene	19.2		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.8		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.2		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.9		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.8		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	95.3		0.75	2.50	5.00	ug/L
108-88-3	Toluene	20.1		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.0		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.0		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.9		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	96.5		1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VN0115WBS01	SDG No.:	Q1062
Lab Sample ID:	VN0115WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085450.D	1		01/15/25 10:29	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	19.1		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.1		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.3		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	20.0		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	41.3		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	20.2		0.14	0.50	1.00	ug/L
100-42-5	Styrene	20.4		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	19.8		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	20.7		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.5		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.6		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.7		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.9		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47.6		81 - 118		95%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	50.4		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	209000	8.224				
540-36-3	1,4-Difluorobenzene	350000	9.094				
3114-55-4	Chlorobenzene-d5	302000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	141000	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\VN011525\
 Data File : VN085450.D
 Acq On : 15 Jan 2025 10:29
 Operator : JC\MD
 Sample : VN0115WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:53:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	208834	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	350038	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	301633	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	141189	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.576	65	160496	47.611	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.220%
35) Dibromofluoromethane	8.165	113	117791	48.506	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.020%
50) Toluene-d8	10.559	98	434650	50.376	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.760%
62) 4-Bromofluorobenzene	12.847	95	146069	49.491	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.980%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	53406	18.888	ug/l	97
3) Chloromethane	2.359	50	56766	18.542	ug/l	100
4) Vinyl Chloride	2.518	62	55927	18.175	ug/l	98
5) Bromomethane	2.959	94	34404	18.509	ug/l	93
6) Chloroethane	3.130	64	34817	17.847	ug/l	99
7) Trichlorofluoromethane	3.500	101	83471	18.695	ug/l	98
8) Diethyl Ether	3.959	74	26372	17.097	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	47665	18.954	ug/l	98
10) Methyl Iodide	4.589	142	52836	18.346	ug/l	94
11) Tert butyl alcohol	5.500	59	34842	90.264	ug/l	98
12) 1,1-Dichloroethene	4.347	96	41789	18.645	ug/l	97
13) Acrolein	4.177	56	57066	108.299	ug/l	99
14) Allyl chloride	5.024	41	64682	17.785	ug/l	98
15) Acrylonitrile	5.718	53	111192	90.690	ug/l	98
16) Acetone	4.424	43	95481	87.661	ug/l	97
17) Carbon Disulfide	4.712	76	120042	17.395	ug/l	99
18) Methyl Acetate	5.024	43	59306	17.906	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	136088	18.700	ug/l	100
20) Methylene Chloride	5.277	84	48956	18.156	ug/l	98
21) trans-1,2-Dichloroethene	5.788	96	44485	18.572	ug/l	95
22) Diisopropyl ether	6.665	45	156113	19.339	ug/l	99
23) Vinyl Acetate	6.600	43	540854	95.740	ug/l	100
24) 1,1-Dichloroethane	6.565	63	91537	18.597	ug/l	99
25) 2-Butanone	7.477	43	146109	91.155	ug/l	99
26) 2,2-Dichloropropane	7.488	77	81881	20.576	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	52626	18.654	ug/l	99
28) Bromochloromethane	7.806	49	39408	17.209	ug/l	99
29) Tetrahydrofuran	7.835	42	97170	95.619	ug/l	98
30) Chloroform	7.959	83	93604	18.400	ug/l	100
31) Cyclohexane	8.259	56	79144	18.500	ug/l	95
32) 1,1,1-Trichloroethane	8.159	97	83081	18.618	ug/l	97
36) 1,1-Dichloropropene	8.365	75	63125	18.521	ug/l	99
37) Ethyl Acetate	7.553	43	62310	18.113	ug/l	97
38) Carbon Tetrachloride	8.359	117	74287	19.039	ug/l	97
39) Methylcyclohexane	9.594	83	63410	19.799	ug/l	99
40) Benzene	8.600	78	196843	19.222	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085450.D
 Acq On : 15 Jan 2025 10:29
 Operator : JC\MD
 Sample : VN0115WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:53:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	34152	19.082	ug/l	96
42) 1,2-Dichloroethane	8.665	62	72644	18.835	ug/l	100
43) Isopropyl Acetate	8.682	43	99545	18.059	ug/l	100
44) Trichloroethene	9.347	130	45825	19.224	ug/l	98
45) 1,2-Dichloropropane	9.618	63	49517	18.931	ug/l	96
46) Dibromomethane	9.706	93	34976	18.531	ug/l	99
47) Bromodichloromethane	9.882	83	75979	19.759	ug/l	96
48) Methyl methacrylate	9.676	41	47488	19.143	ug/l	98
49) 1,4-Dioxane	9.694	88	14354	343.615	ug/l	95
51) 4-Methyl-2-Pentanone	10.441	43	304924	95.328	ug/l	100
52) Toluene	10.629	92	118985	20.053	ug/l	98
53) t-1,3-Dichloropropene	10.829	75	69201	19.044	ug/l	96
54) cis-1,3-Dichloropropene	10.306	75	77467	19.958	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	44394	18.906	ug/l	99
56) Ethyl methacrylate	10.870	69	63560	17.379	ug/l	99
57) 1,3-Dichloropropane	11.159	76	78133	19.136	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.153	63	148732	99.810	ug/l	99
59) 2-Hexanone	11.194	43	217128	96.472	ug/l	98
60) Dibromochloromethane	11.353	129	54139	19.097	ug/l	99
61) 1,2-Dibromoethane	11.465	107	44253	18.932	ug/l	98
64) Tetrachloroethene	11.100	164	41267	20.068	ug/l	96
65) Chlorobenzene	11.888	112	127557	19.304	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	45645	18.821	ug/l	100
67) Ethyl Benzene	11.959	91	215448	20.019	ug/l	95
68) m/p-Xylenes	12.065	106	164329	41.314	ug/l	100
69) o-Xylene	12.394	106	76723	20.184	ug/l	98
70) Styrene	12.406	104	128074	20.358	ug/l	100
71) Bromoform	12.570	173	34422	19.837	ug/l #	99
73) Isopropylbenzene	12.694	105	196948	20.668	ug/l	100
74) N-ethyl acetate	12.488	43	80290	18.746	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	62306	18.510	ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	57678m	20.099	ug/l	
77) Bromobenzene	12.976	156	48006	19.283	ug/l	98
78) n-propylbenzene	13.029	91	234178	20.759	ug/l	99
79) 2-Chlorotoluene	13.123	91	148584	20.351	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	167516	21.282	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.729	75	20052m	18.905	ug/l	
82) 4-Chlorotoluene	13.217	91	148888	20.481	ug/l	100
83) tert-Butylbenzene	13.435	119	137144	20.748	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	168611	21.493	ug/l	97
85) sec-Butylbenzene	13.611	105	193667	21.140	ug/l	99
86) p-Isopropyltoluene	13.729	119	158593	20.730	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	89998	19.629	ug/l	98
88) 1,4-Dichlorobenzene	13.806	146	88968	18.721	ug/l	99
89) n-Butylbenzene	14.053	91	132410	20.147	ug/l	99
90) Hexachloroethane	14.329	117	32875	18.850	ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	86586	18.933	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10904	17.740	ug/l	96
93) 1,2,4-Trichlorobenzene	15.388	180	38461	18.095	ug/l	98
94) Hexachlorobutadiene	15.500	225	21171	18.761	ug/l	98
95) Naphthalene	15.635	128	104770	16.518	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	38077	17.704	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085450.D
Acq On : 15 Jan 2025 10:29
Operator : JC\MD
Sample : VN0115WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:53:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

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

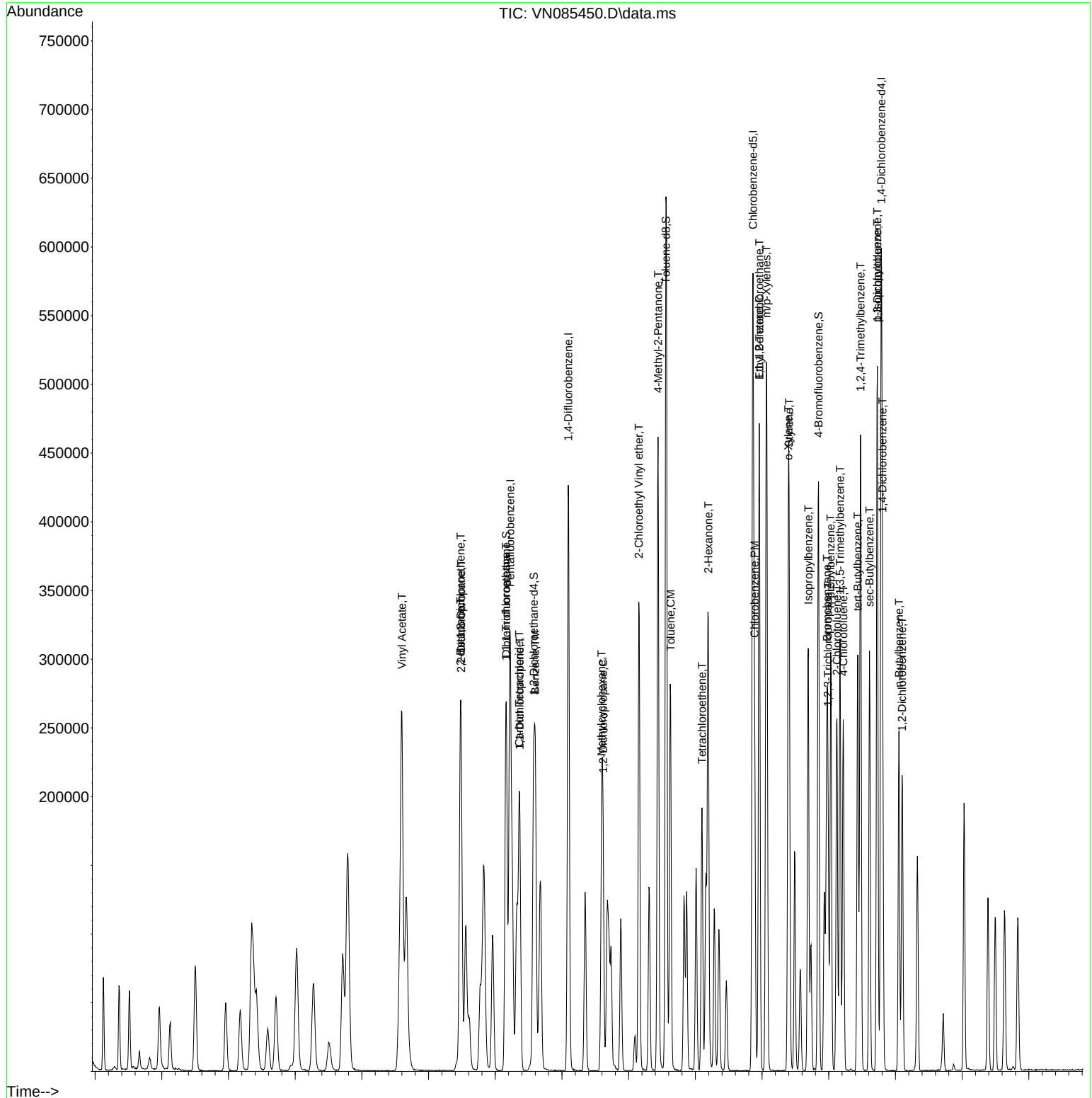
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085450.D
Acq On : 15 Jan 2025 10:29
Operator : JC\MD
Sample : VN0115WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

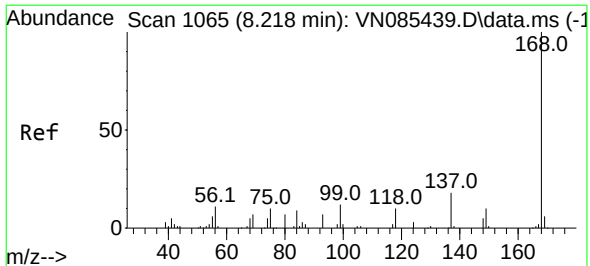
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

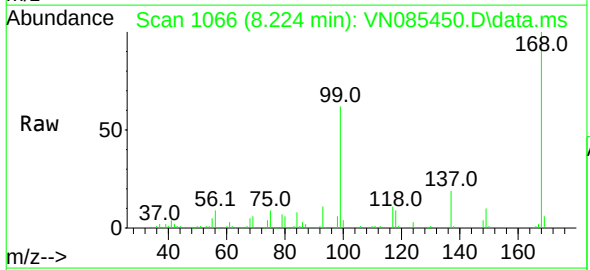
Quant Time: Jan 16 00:53:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

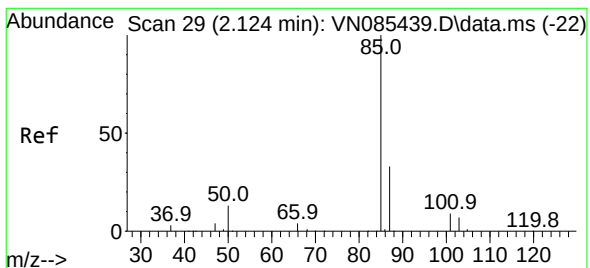
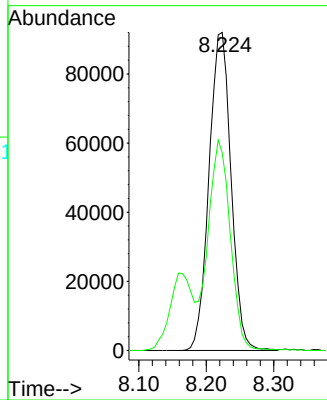
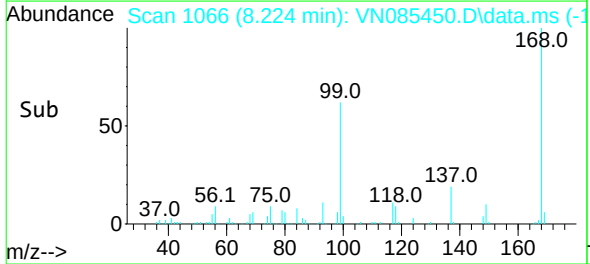
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01



Tgt Ion: 168 Resp: 208834
Ion Ratio Lower Upper
168 100
99 62.0 53.6 80.4

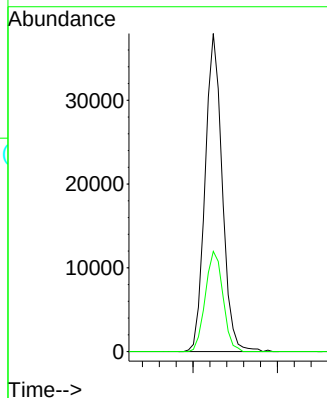
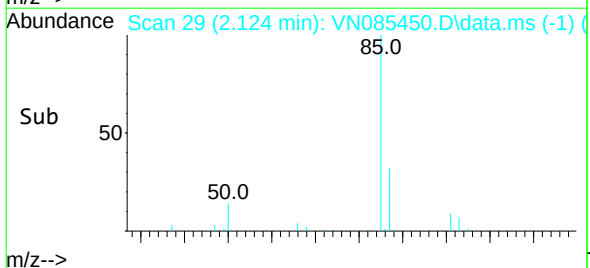
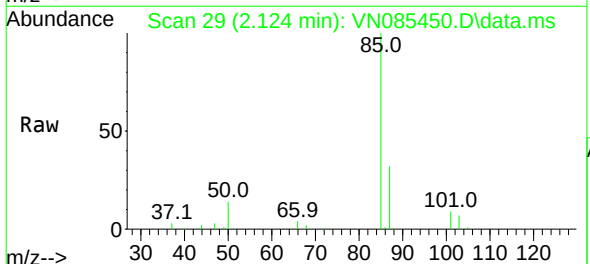
Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

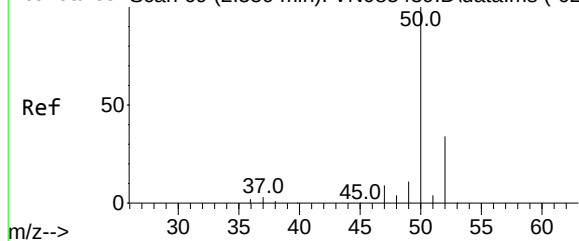


#2
Dichlorodifluoromethane
Concen: 18.888 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 85 Resp: 53406
Ion Ratio Lower Upper
85 100
87 31.5 16.7 50.1



Abundance Scan 69 (2.359 min): VN085439.D\data.ms (-62)



#3

Chloromethane

Concen: 18.542 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

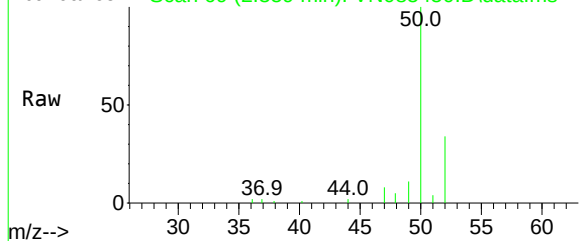
Instrument :

MSVOA_N

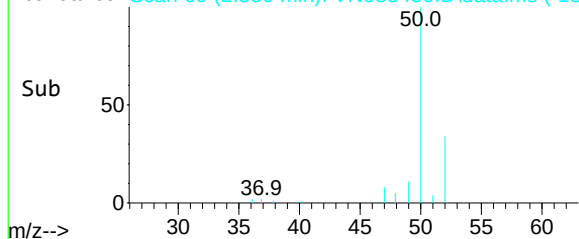
ClientSampleId :

VN0115WBS01

Abundance Scan 69 (2.359 min): VN085450.D\data.ms



Abundance Scan 69 (2.359 min): VN085450.D\data.ms (-18)



Tgt Ion: 50 Resp: 56766

Ion Ratio Lower Upper

50 100

52 33.9 27.0 40.6

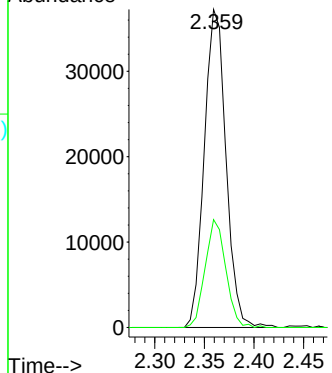
Manual Integrations

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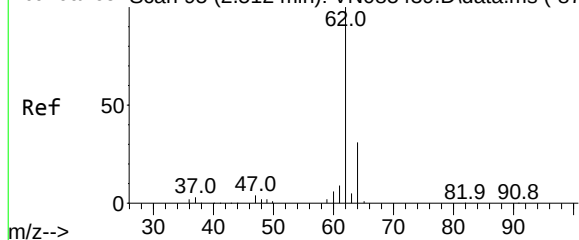
Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025

Abundance



Abundance Scan 95 (2.512 min): VN085439.D\data.ms (-87)



#4

Vinyl Chloride

Concen: 18.175 ug/l

RT: 2.518 min Scan# 96

Delta R.T. 0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

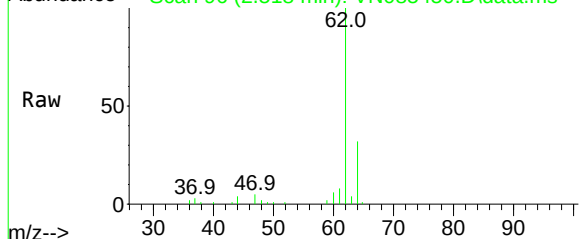
Tgt Ion: 62 Resp: 55927

Ion Ratio Lower Upper

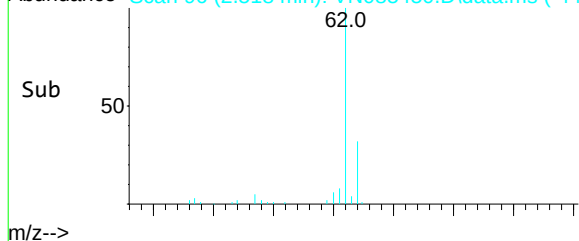
62 100

64 32.2 24.8 37.2

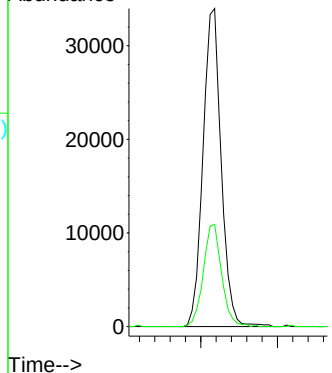
Abundance Scan 96 (2.518 min): VN085450.D\data.ms

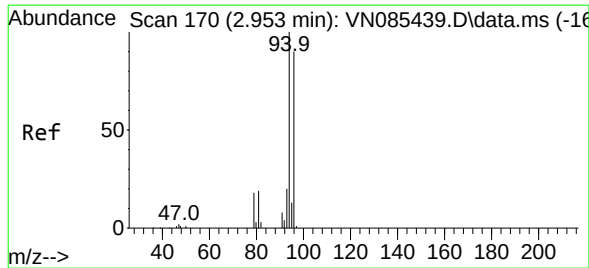


Abundance Scan 96 (2.518 min): VN085450.D\data.ms (-44)



Abundance





#5

Bromomethane

Concen: 18.509 ug/l

RT: 2.959 min Scan# 171

Delta R.T. 0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion: 94 Resp: 34404

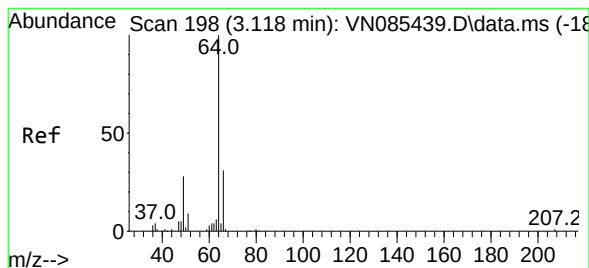
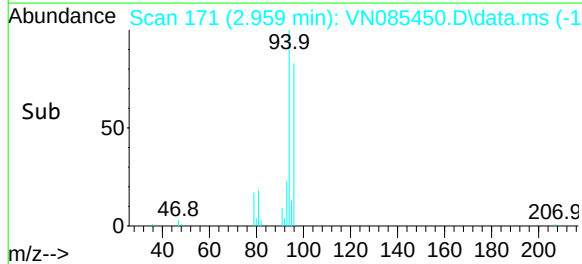
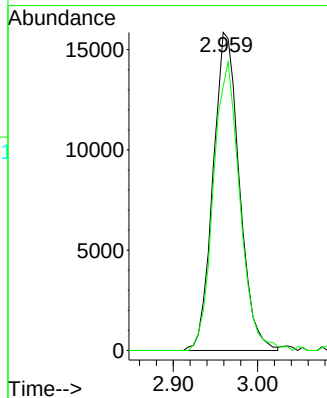
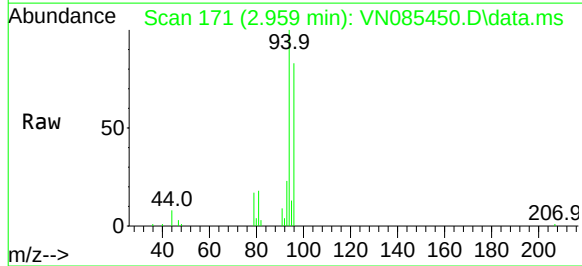
Ion Ratio Lower Upper

94 100

96 83.0 71.8 107.6

Manual Integrations

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Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#6

Chloroethane

Concen: 17.847 ug/l

RT: 3.130 min Scan# 200

Delta R.T. 0.012 min

Lab File: VN085450.D

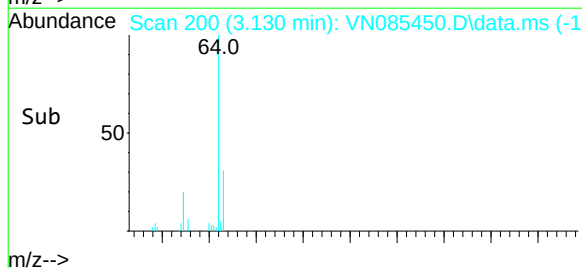
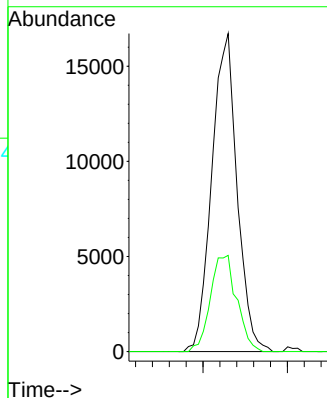
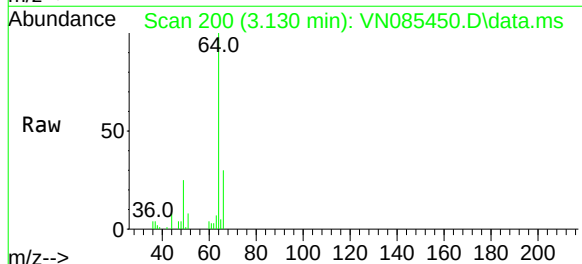
Acq: 15 Jan 2025 10:29

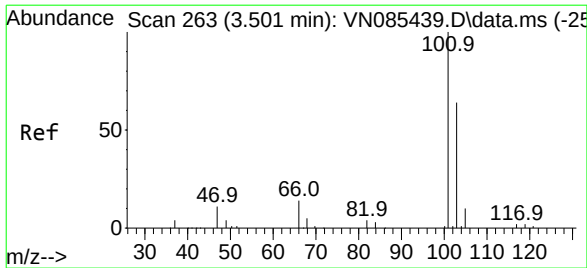
Tgt Ion: 64 Resp: 34817

Ion Ratio Lower Upper

64 100

66 30.2 24.6 36.8





#7

Trichlorofluoromethane

Concen: 18.695 ug/l

RT: 3.500 min Scan# 26

Delta R.T. -0.000 min

Lab File: VN085450.D

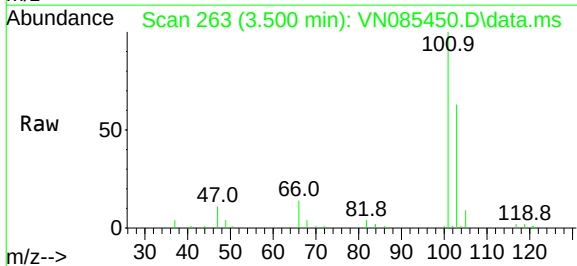
Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01



Tgt Ion:101 Resp: 83471

Ion Ratio Lower Upper

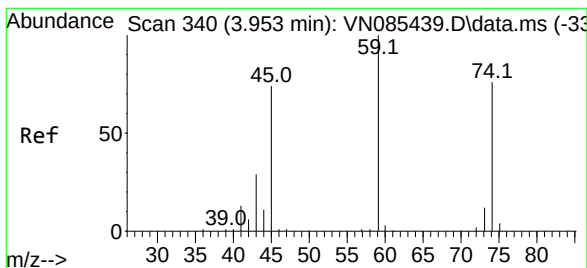
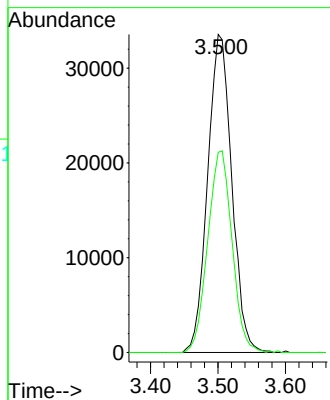
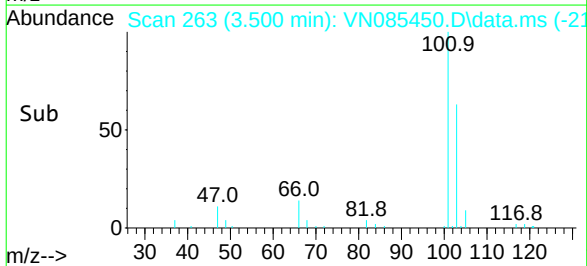
101 100

103 62.9 51.4 77.2

Manual Integrations

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Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#8

Diethyl Ether

Concen: 17.097 ug/l

RT: 3.959 min Scan# 341

Delta R.T. 0.006 min

Lab File: VN085450.D

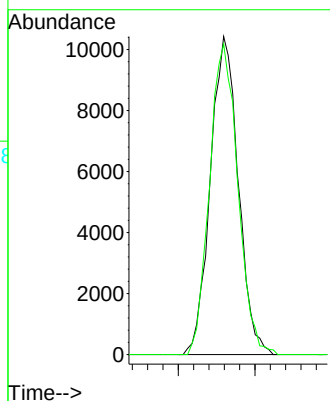
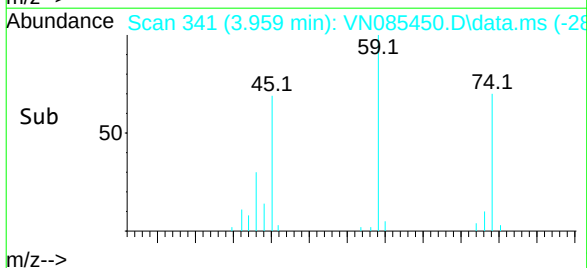
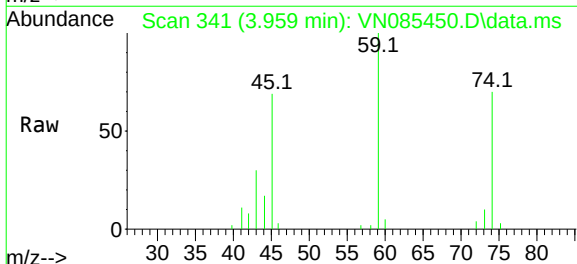
Acq: 15 Jan 2025 10:29

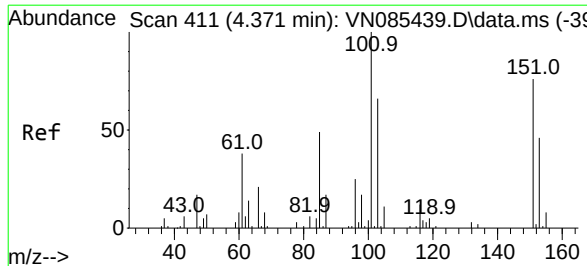
Tgt Ion: 74 Resp: 26372

Ion Ratio Lower Upper

74 100

45 98.9 49.7 149.1





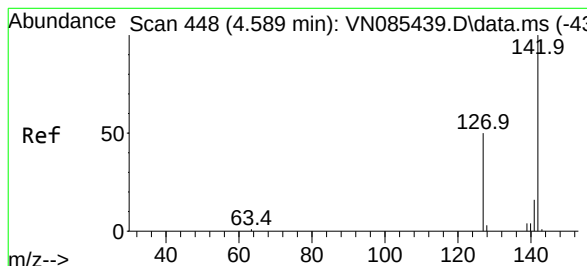
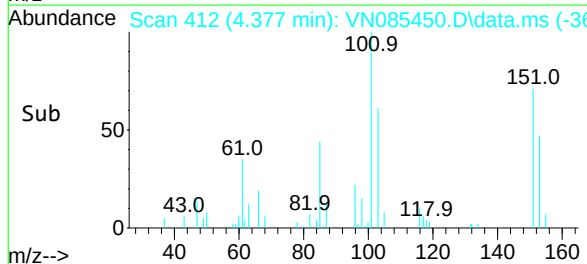
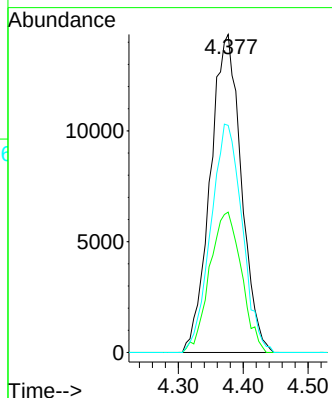
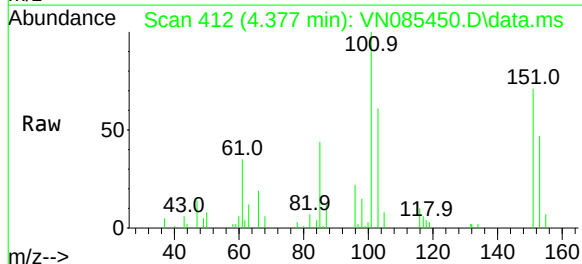
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.954 ug/l
RT: 4.377 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion:101 Resp: 47665
Ion Ratio Lower Upper
101 100
85 45.2 37.8 56.8
151 72.6 58.8 88.2

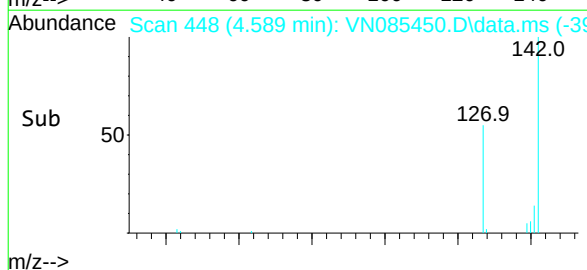
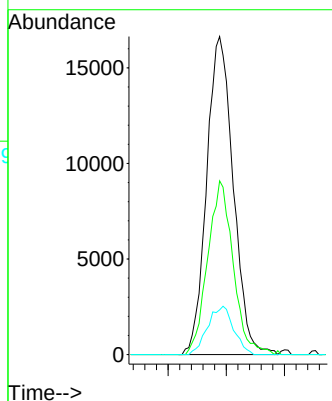
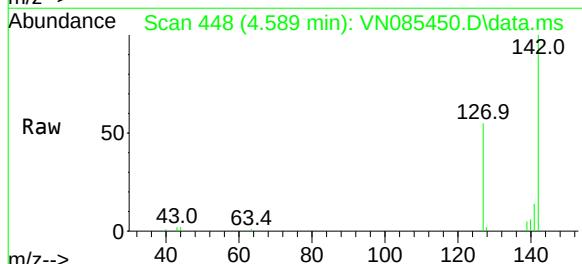
Manual Integrations
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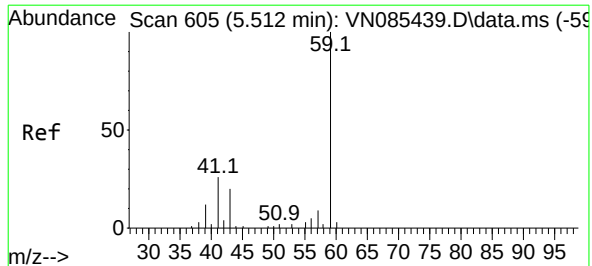
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#10
Methyl Iodide
Concen: 18.346 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:142 Resp: 52836
Ion Ratio Lower Upper
142 100
127 54.6 40.3 60.5
141 14.1 12.8 19.2





#11

Tert butyl alcohol

Concen: 90.264 ug/l

RT: 5.500 min Scan# 60

Delta R.T. -0.012 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion: 59 Resp: 34842

Ion Ratio Lower Upper

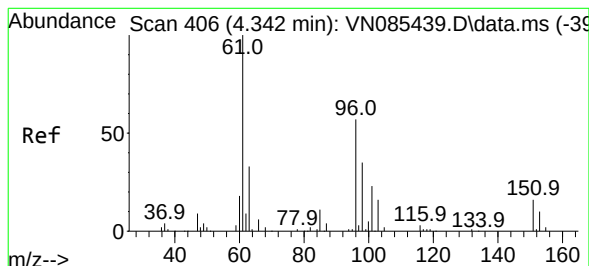
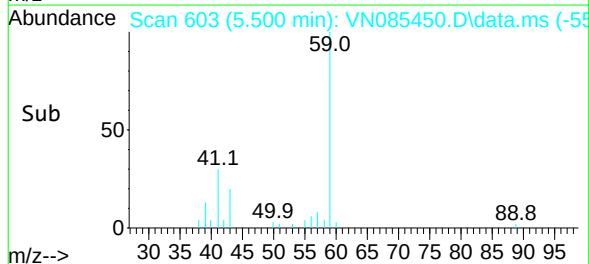
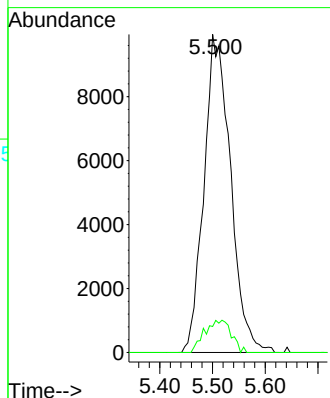
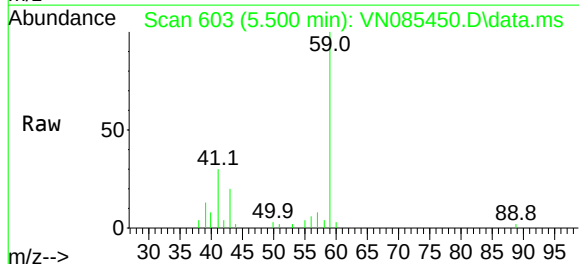
59 100

57 10.2 8.6 13.0

Manual Integrations

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Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025



#12

1,1-Dichloroethene

Concen: 18.645 ug/l

RT: 4.347 min Scan# 407

Delta R.T. 0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

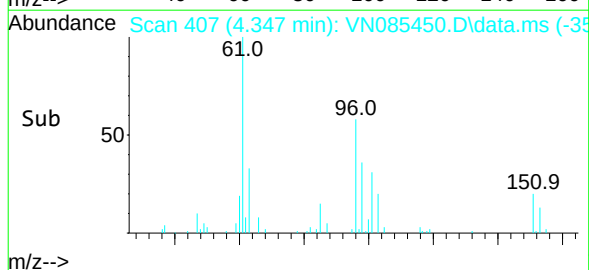
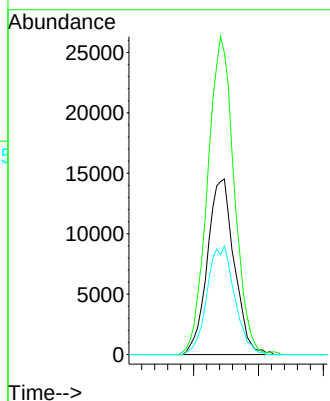
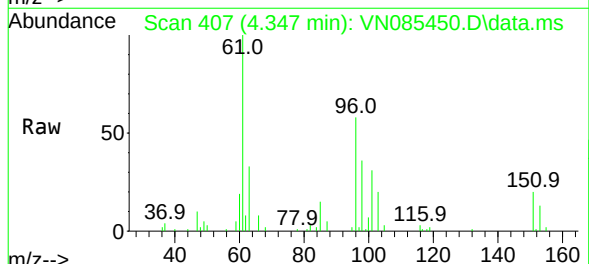
Tgt Ion: 96 Resp: 41789

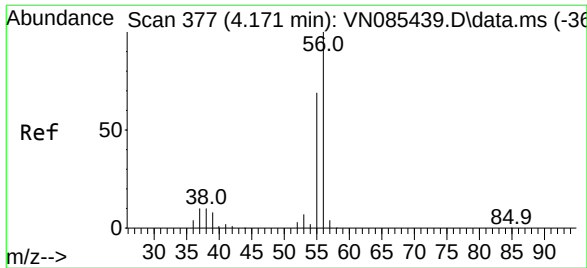
Ion Ratio Lower Upper

96 100

61 171.8 141.0 211.4

98 62.0 49.0 73.6





#13

Acrolein

Concen: 108.299 ug/l

RT: 4.177 min Scan# 377

Delta R.T. 0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion: 56 Resp: 57066

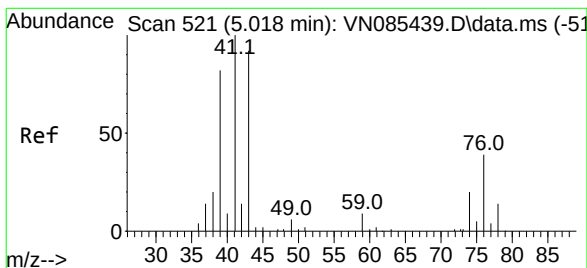
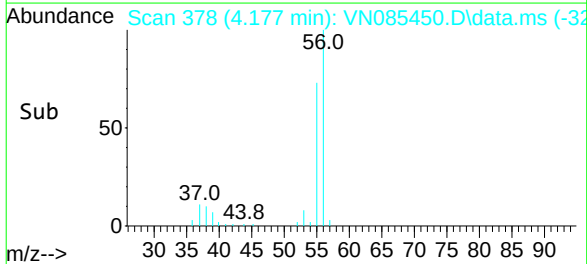
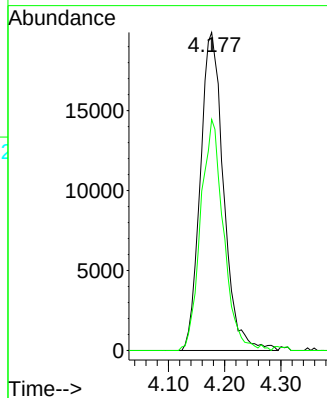
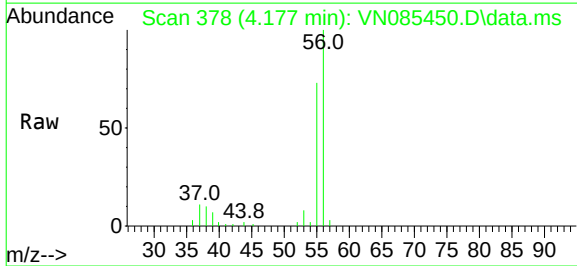
Ion Ratio Lower Upper

56 100

55 71.4 56.3 84.5

Manual Integrations

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Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#14

Allyl chloride

Concen: 17.785 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

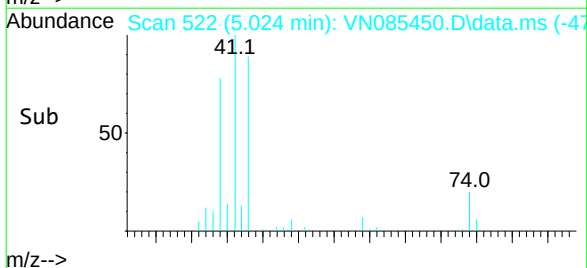
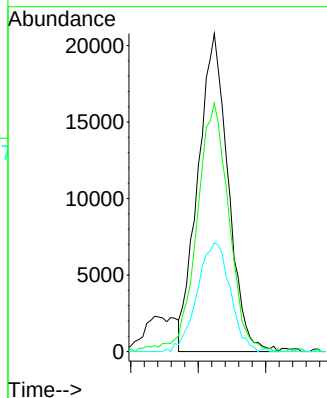
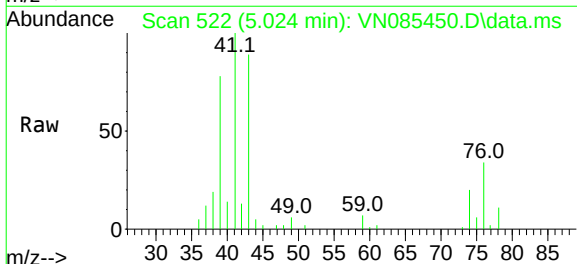
Tgt Ion: 41 Resp: 64682

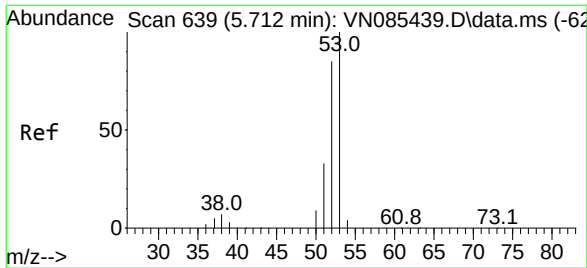
Ion Ratio Lower Upper

41 100

39 83.1 64.4 96.6

76 37.5 30.5 45.7





#15

Acrylonitrile

Concen: 90.690 ug/l

RT: 5.718 min Scan# 64

Delta R.T. 0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion: 53 Resp: 111192

Ion Ratio Lower Upper

53 100

52 83.8 65.5 98.3

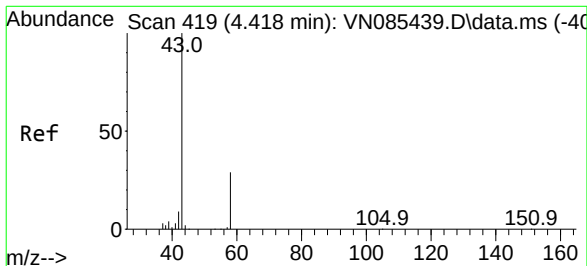
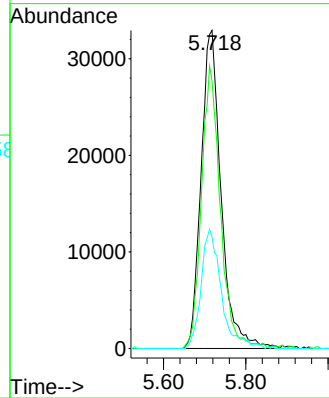
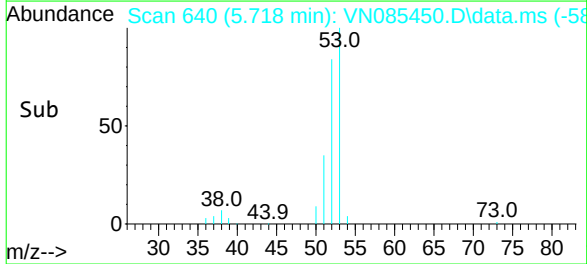
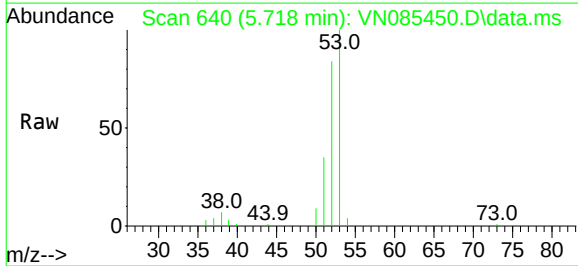
51 37.5 29.8 44.8

Manual Integrations

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Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#16

Acetone

Concen: 87.661 ug/l

RT: 4.424 min Scan# 420

Delta R.T. 0.006 min

Lab File: VN085450.D

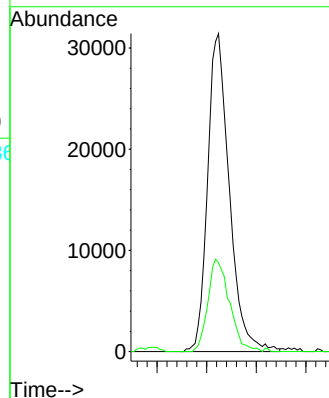
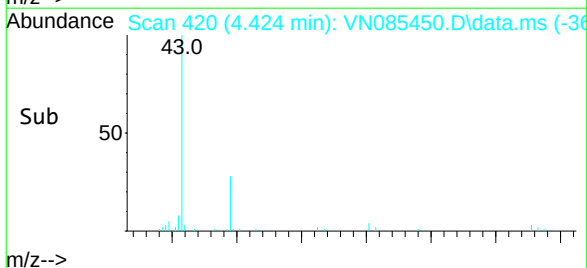
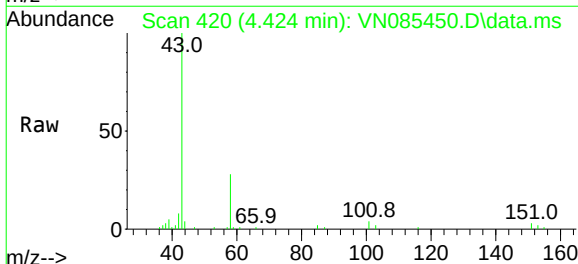
Acq: 15 Jan 2025 10:29

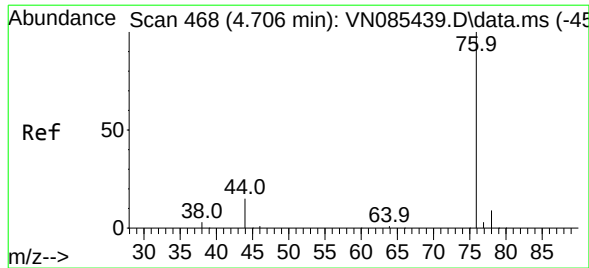
Tgt Ion: 43 Resp: 95481

Ion Ratio Lower Upper

43 100

58 28.0 23.8 35.6





#17

Carbon Disulfide

Concen: 17.395 ug/l

RT: 4.712 min Scan# 46

Delta R.T. 0.006 min

Lab File: VN085450.D

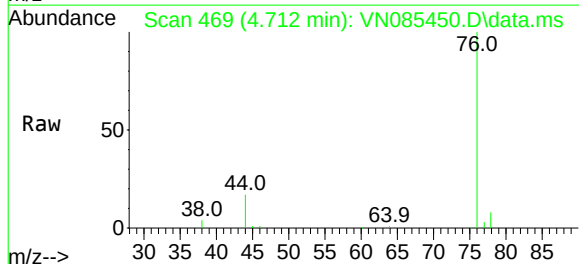
Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01



Tgt Ion: 76 Resp: 120042

Ion Ratio Lower Upper

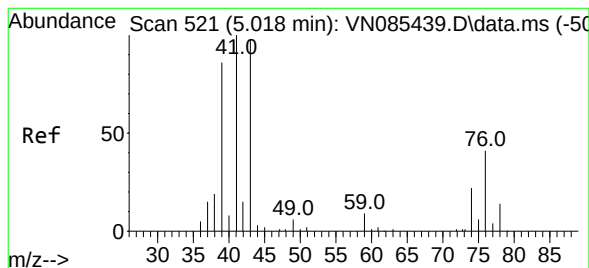
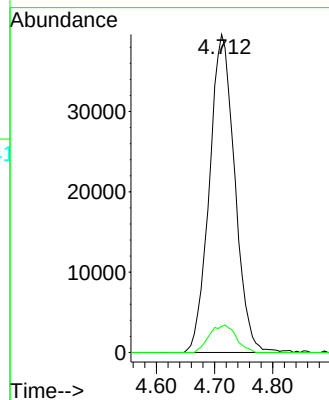
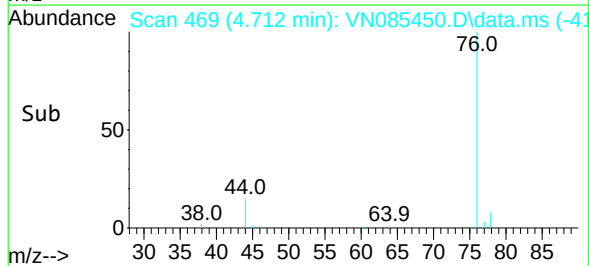
76 100

78 8.2 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#18

Methyl Acetate

Concen: 17.906 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085450.D

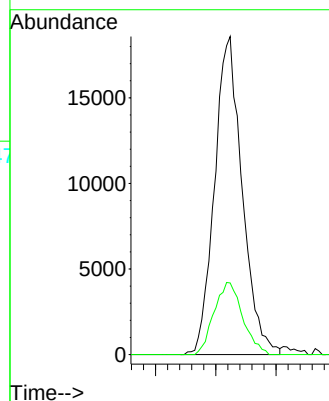
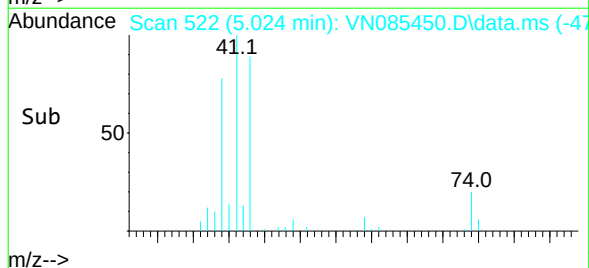
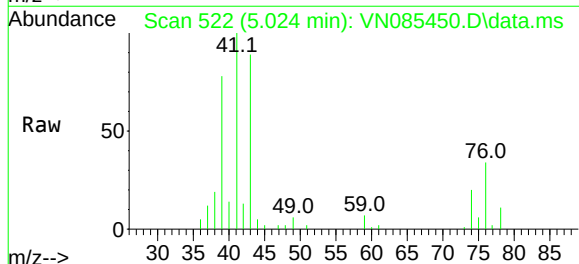
Acq: 15 Jan 2025 10:29

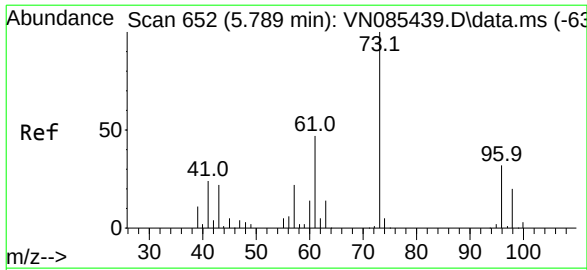
Tgt Ion: 43 Resp: 59306

Ion Ratio Lower Upper

43 100

74 23.4 18.6 28.0





#19

Methyl tert-butyl Ether

Concen: 18.700 ug/l

RT: 5.794 min Scan# 65

Delta R.T. 0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion: 73 Resp: 136088

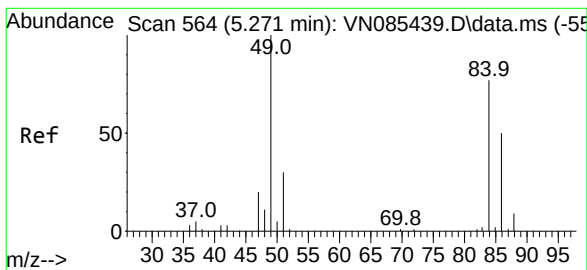
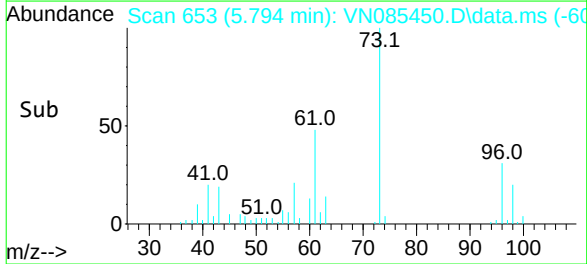
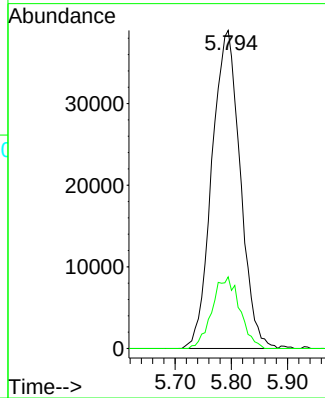
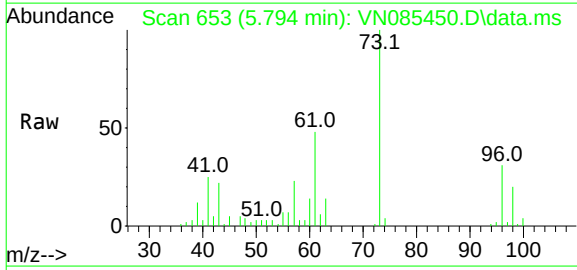
Ion Ratio Lower Upper

73 100

57 22.5 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#20

Methylene Chloride

Concen: 18.156 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Tgt Ion: 84 Resp: 48956

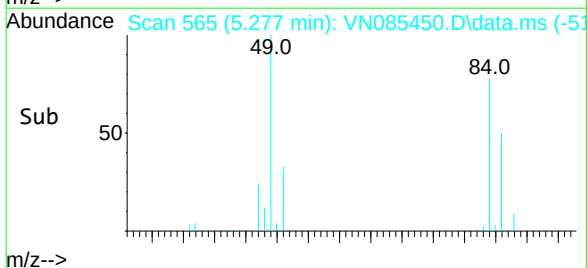
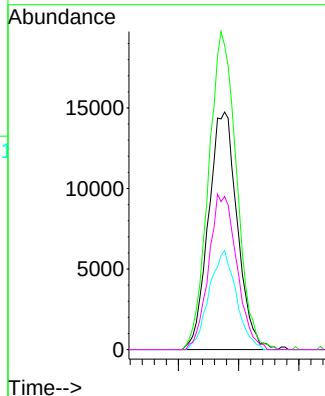
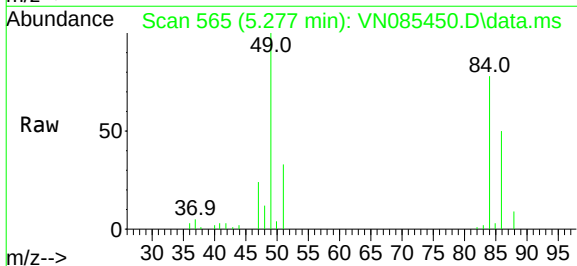
Ion Ratio Lower Upper

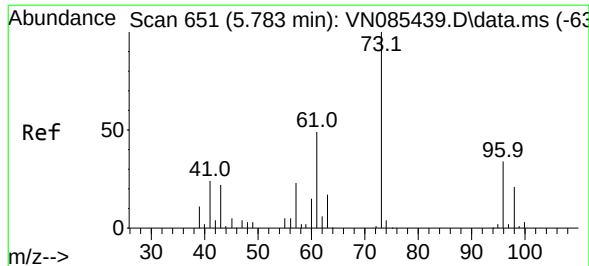
84 100

49 128.0 104.1 156.1

51 41.7 31.0 46.4

86 64.5 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 18.572 ug/l

RT: 5.788 min Scan# 651

Delta R.T. 0.006 min

Lab File: VN085450.D

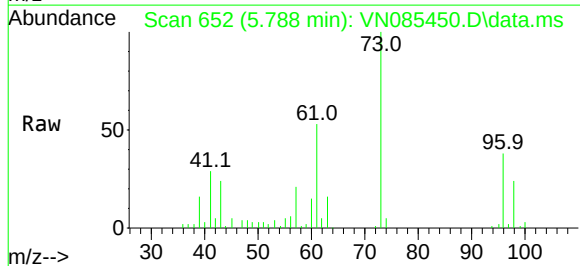
Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01



Tgt Ion: 96 Resp: 44485

Ion Ratio Lower Upper

96 100

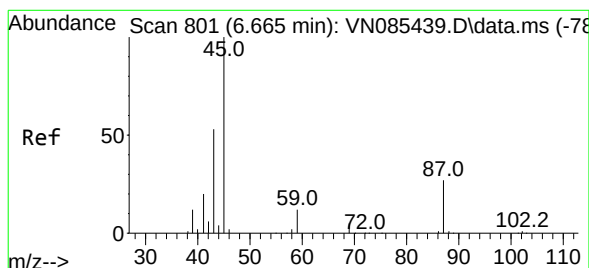
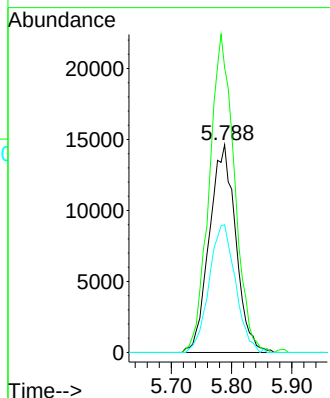
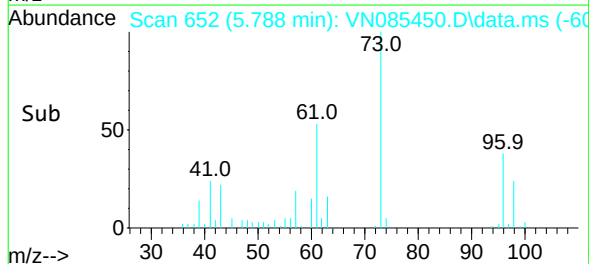
61 137.2 115.7 173.5

98 61.4 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#22

Diisopropyl ether

Concen: 19.339 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Tgt Ion: 45 Resp: 156113

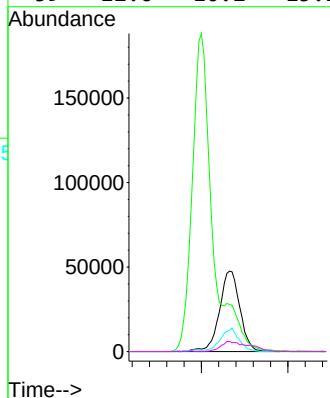
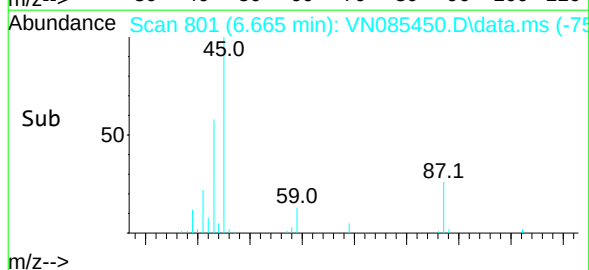
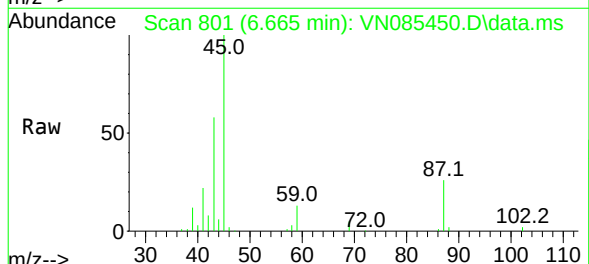
Ion Ratio Lower Upper

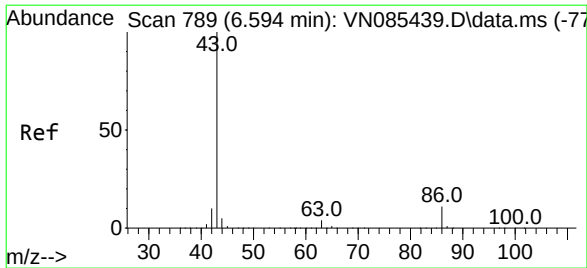
45 100

43 56.9 45.0 67.6

87 26.4 21.8 32.8

59 12.6 10.2 15.2





#23

Vinyl Acetate

Concen: 95.740 ug/l

RT: 6.600 min Scan# 790

Delta R.T. 0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion: 43 Resp: 540854

Ion Ratio Lower Upper

43 100

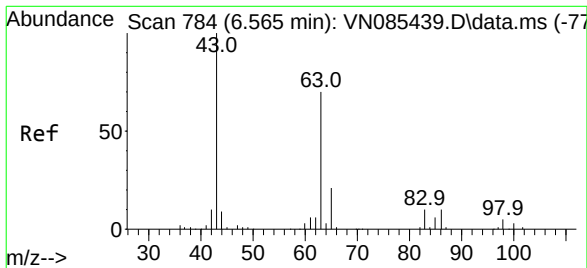
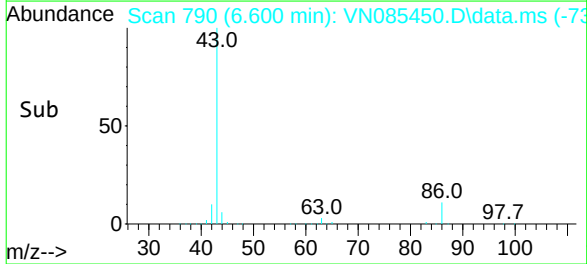
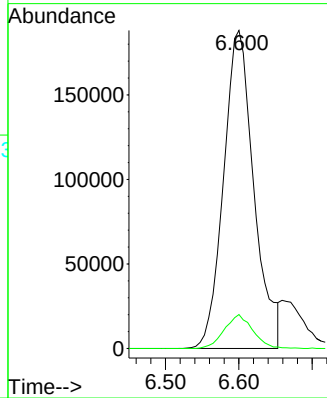
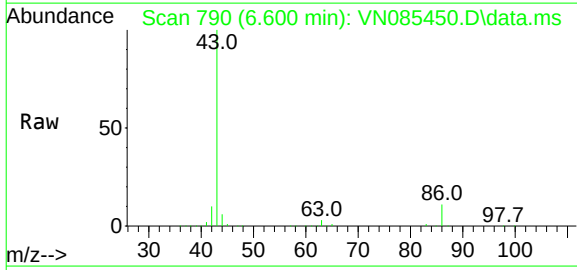
86 10.7 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#24

1,1-Dichloroethane

Concen: 18.597 ug/l

RT: 6.565 min Scan# 784

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

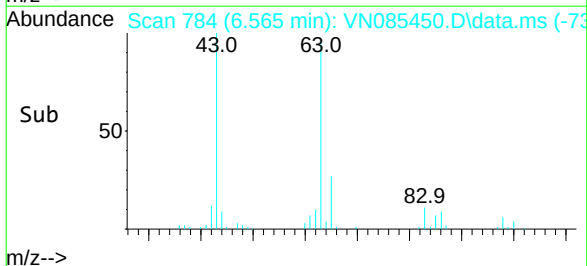
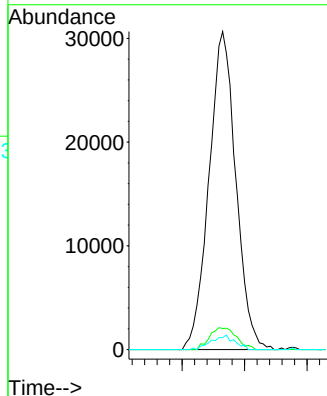
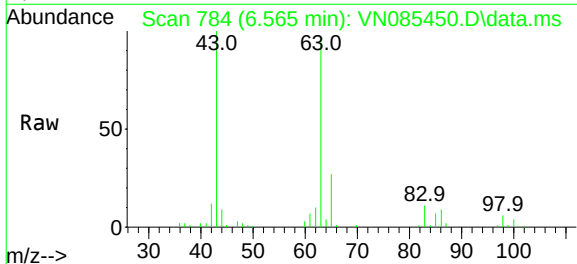
Tgt Ion: 63 Resp: 91537

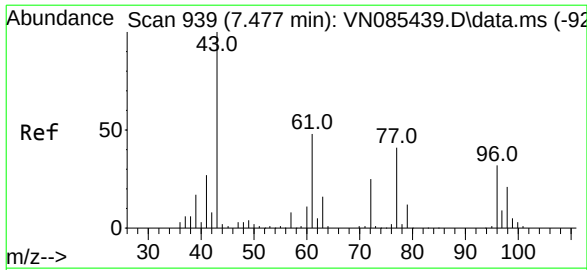
Ion Ratio Lower Upper

63 100

98 6.6 3.3 9.8

100 3.8 2.0 6.0





#25

2-Butanone

Concen: 91.155 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion: 43 Resp: 146109

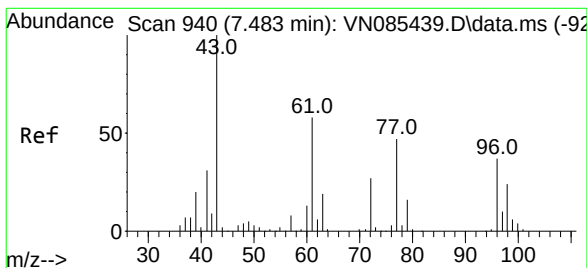
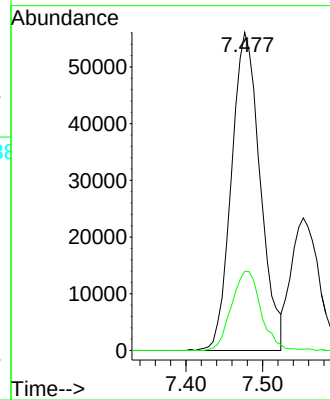
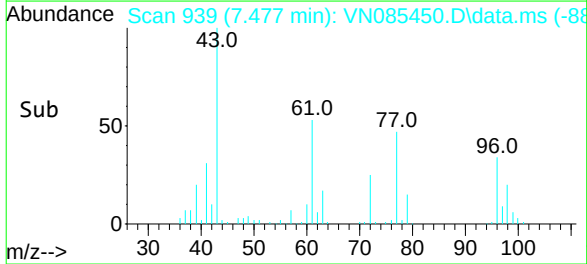
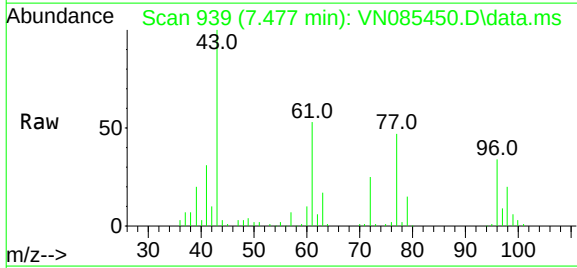
Ion Ratio Lower Upper

43 100

72 24.9 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#26

2,2-Dichloropropane

Concen: 20.576 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085450.D

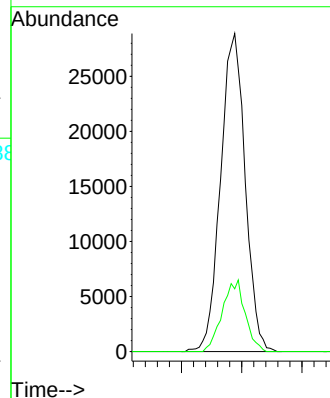
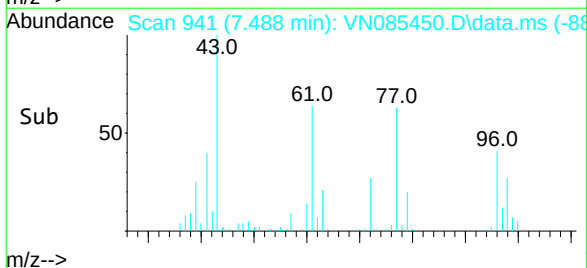
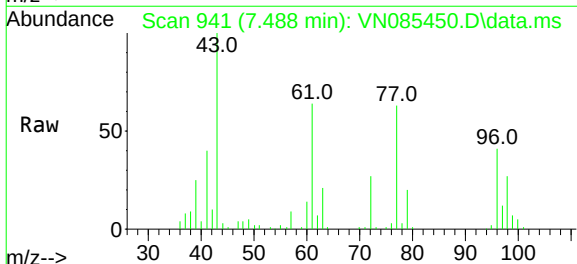
Acq: 15 Jan 2025 10:29

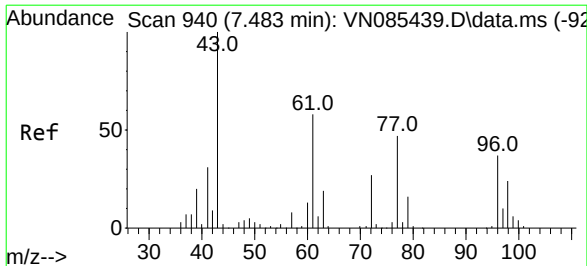
Tgt Ion: 77 Resp: 81881

Ion Ratio Lower Upper

77 100

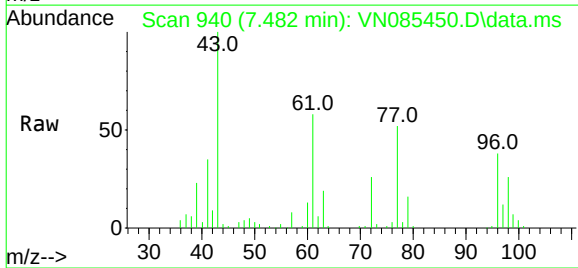
97 20.8 10.7 32.1





#27
 cis-1,2-Dichloroethene
 Concen: 18.654 ug/l
 RT: 7.482 min Scan# 940
 Delta R.T. -0.000 min
 Lab File: VN085450.D
 Acq: 15 Jan 2025 10:29

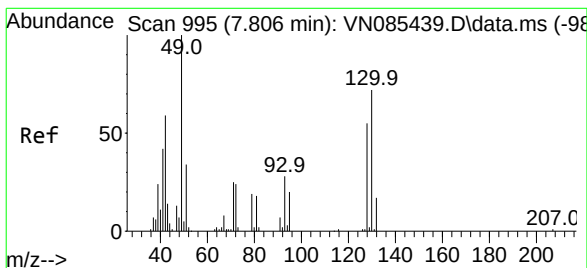
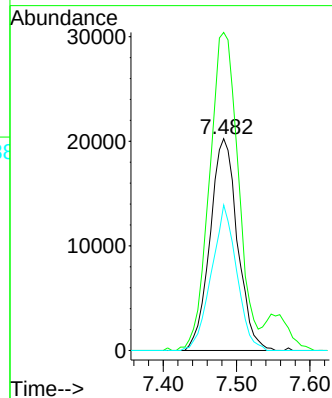
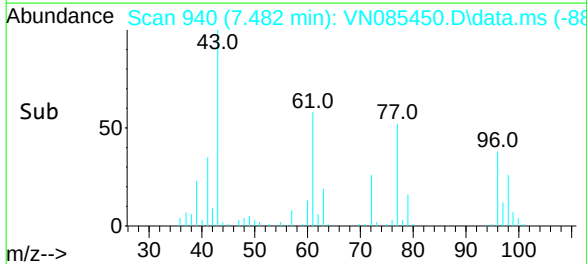
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBS01



Tgt Ion: 96 Resp: 52626
 Ion Ratio Lower Upper
 96 100
 61 157.4 0.0 311.8
 98 63.4 0.0 126.0

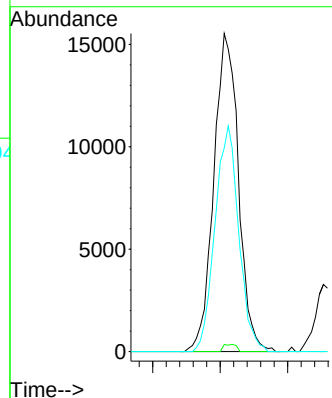
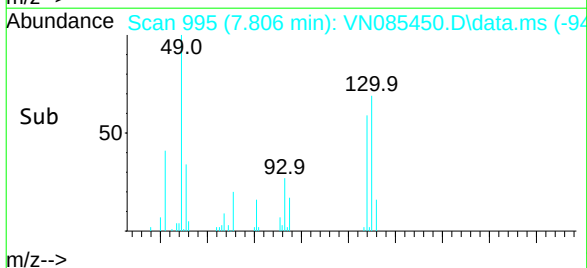
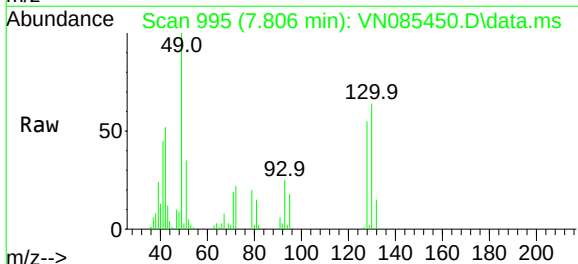
Manual Integrations
 APPROVED

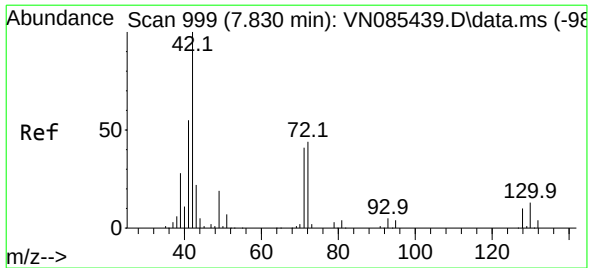
Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025



#28
 Bromochloromethane
 Concen: 17.209 ug/l
 RT: 7.806 min Scan# 995
 Delta R.T. -0.000 min
 Lab File: VN085450.D
 Acq: 15 Jan 2025 10:29

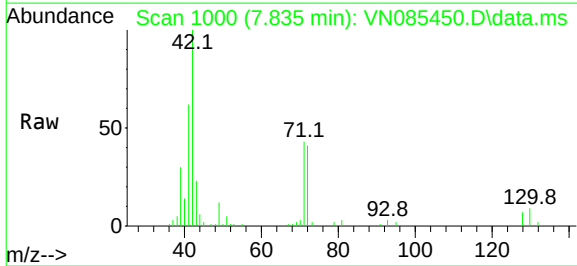
Tgt Ion: 49 Resp: 39408
 Ion Ratio Lower Upper
 49 100
 129 1.2 0.0 4.4
 130 68.3 55.0 82.4





#29
Tetrahydrofuran
Concen: 95.619 ug/l
RT: 7.835 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

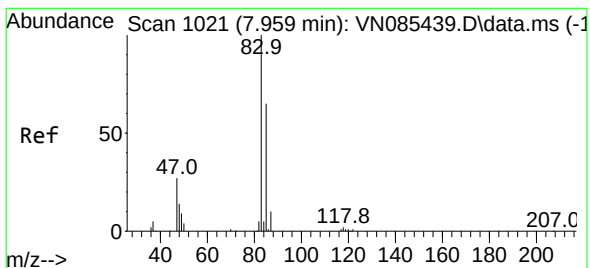
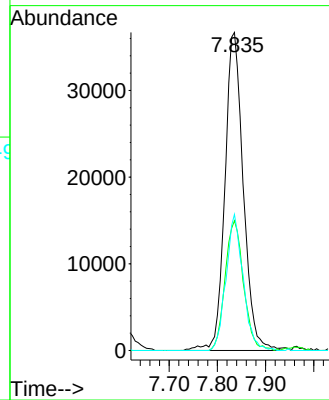
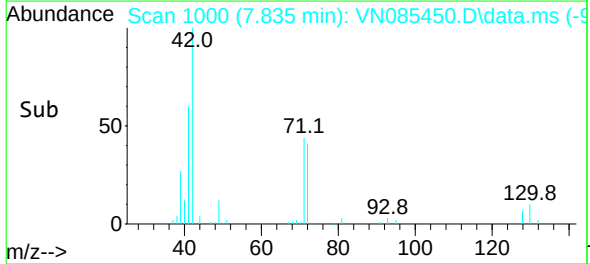
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01



Tgt Ion: 42 Resp: 97170
Ion Ratio Lower Upper
42 100
72 40.8 34.2 51.2
71 39.9 32.5 48.7

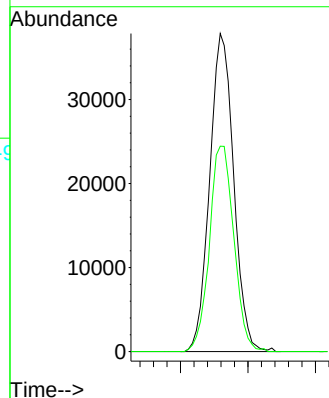
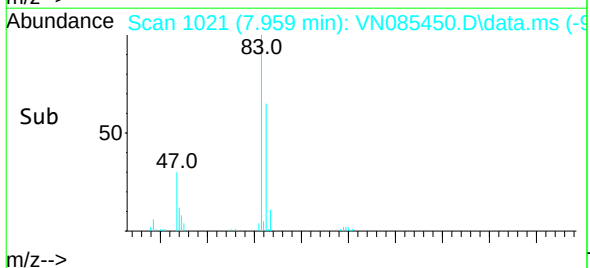
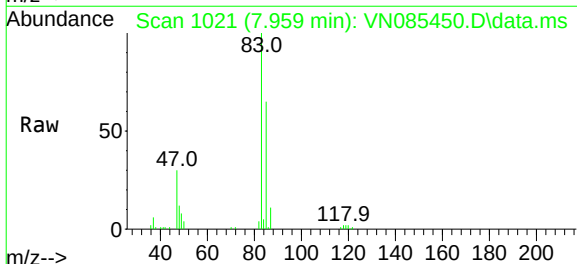
Manual Integrations
APPROVED

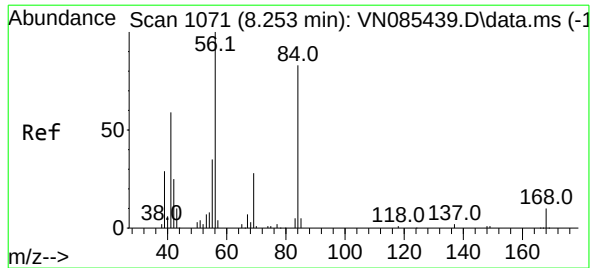
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#30
Chloroform
Concen: 18.400 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 83 Resp: 93604
Ion Ratio Lower Upper
83 100
85 64.6 51.8 77.6





#31

Cyclohexane

Concen: 18.500 ug/l

RT: 8.259 min Scan# 1071

Delta R.T. 0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion: 56 Resp: 79144

Ion Ratio Lower Upper

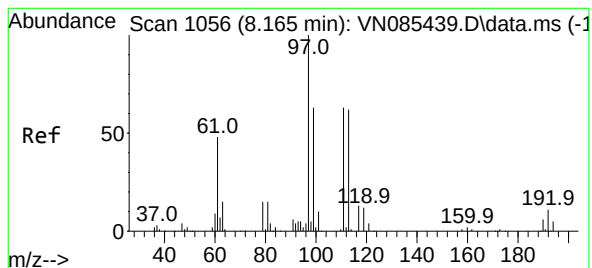
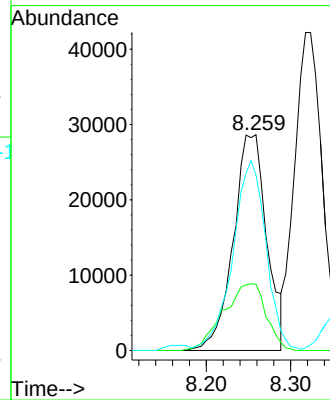
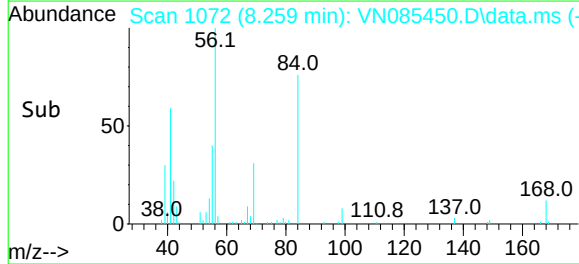
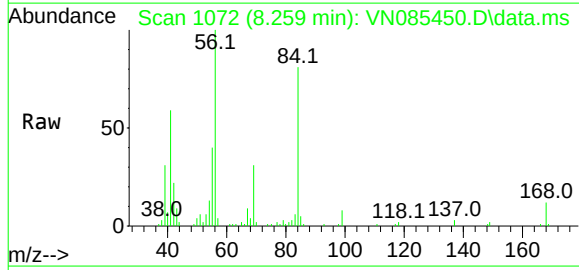
56 100

69 30.0 22.2 33.4

84 78.9 66.4 99.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#32

1,1,1-Trichloroethane

Concen: 18.618 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

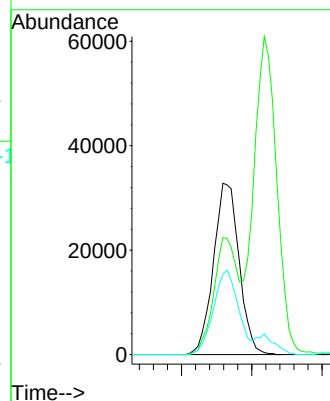
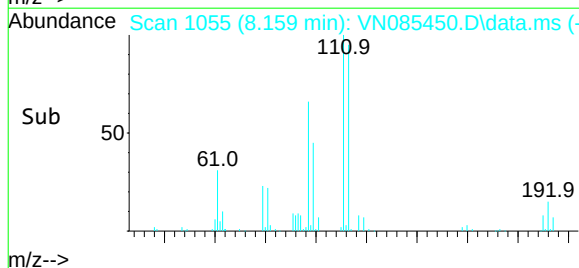
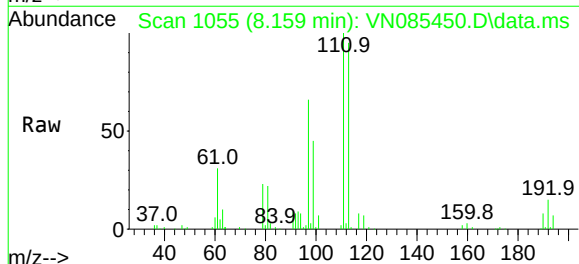
Tgt Ion: 97 Resp: 83081

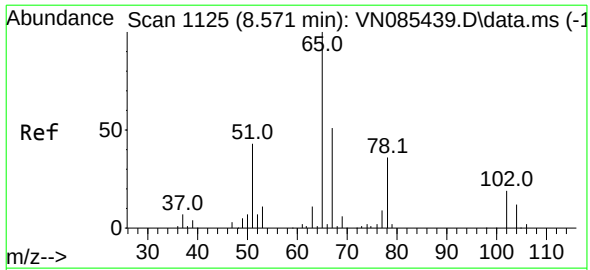
Ion Ratio Lower Upper

97 100

99 61.6 49.8 74.6

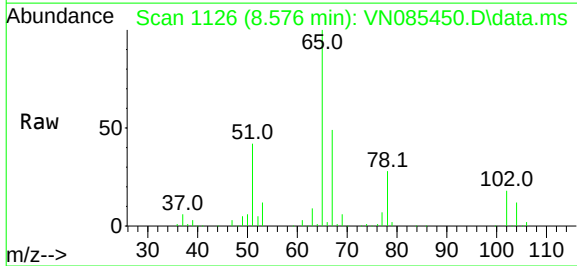
61 48.2 41.4 62.2





#33
1,2-Dichloroethane-d4
Concen: 47.611 ug/l
RT: 8.576 min Scan# 1125
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

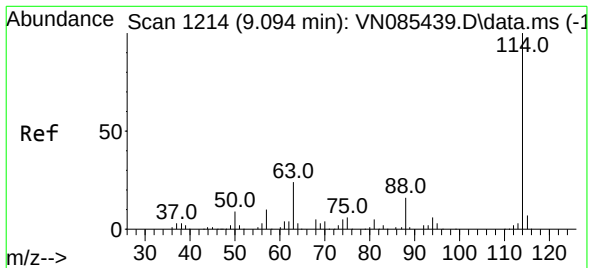
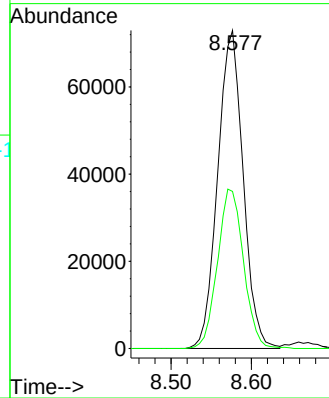
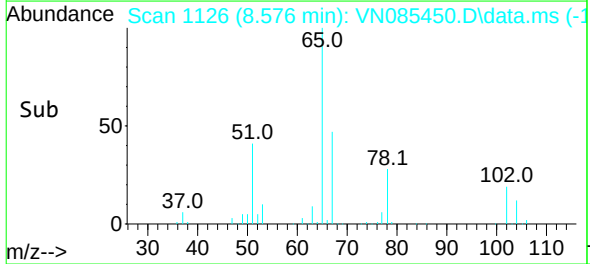
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01



Tgt Ion: 65 Resp: 160496
Ion Ratio Lower Upper
65 100
67 51.3 0.0 101.6

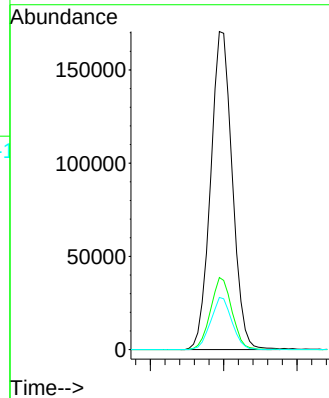
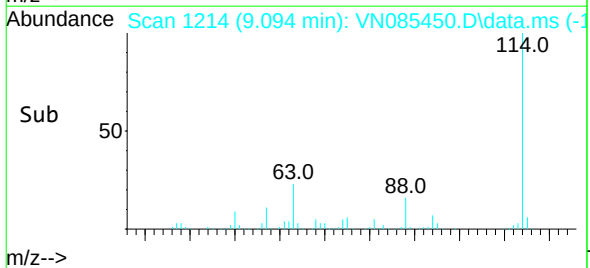
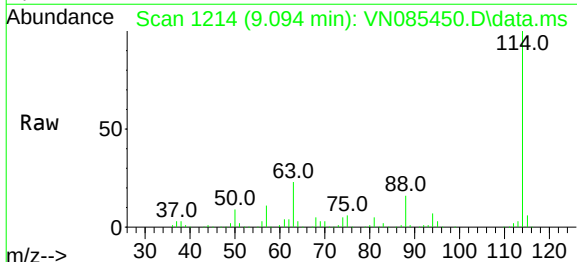
Manual Integrations
APPROVED

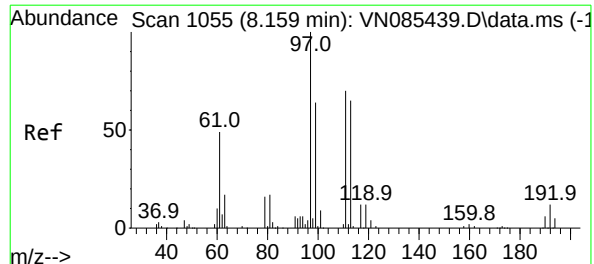
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

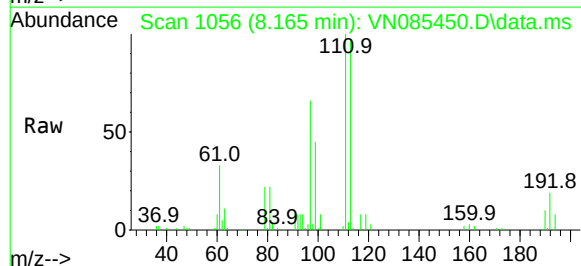
Tgt Ion:114 Resp: 350038
Ion Ratio Lower Upper
114 100
63 22.7 0.0 47.6
88 16.4 0.0 32.6





#35
Dibromofluoromethane
Concen: 48.506 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

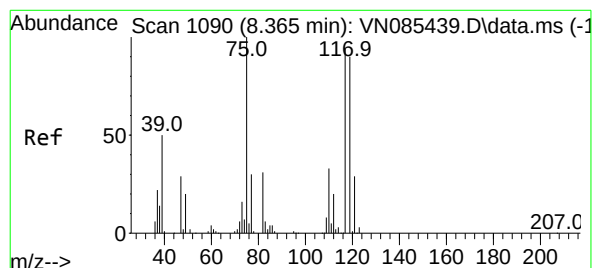
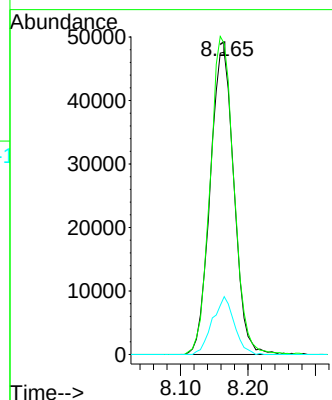
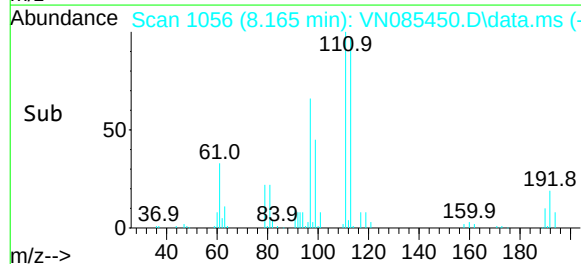
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01



Tgt Ion: 113 Resp: 117791
Ion Ratio Lower Upper
113 100
111 103.8 82.7 124.1
192 17.4 14.3 21.5

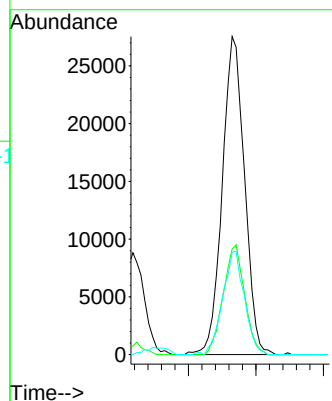
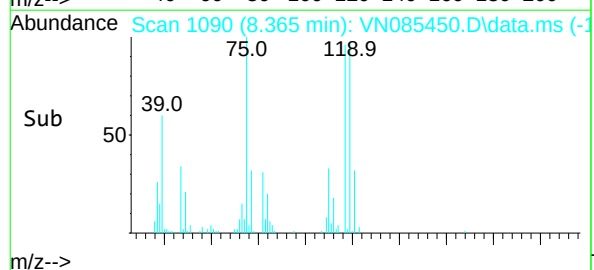
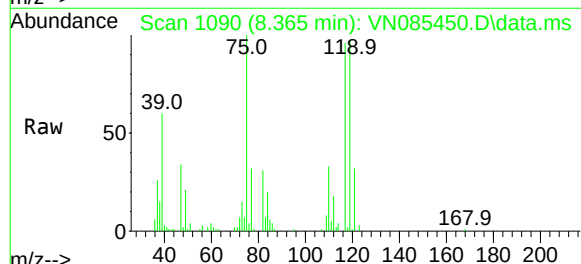
Manual Integrations
APPROVED

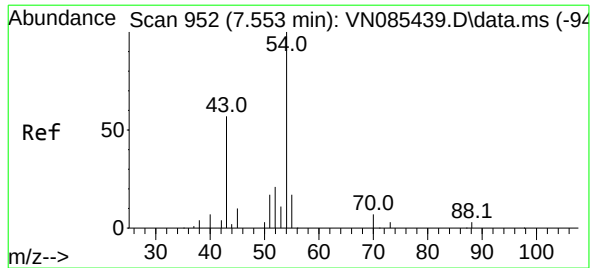
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#36
1,1-Dichloropropene
Concen: 18.521 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 75 Resp: 63125
Ion Ratio Lower Upper
75 100
110 33.2 16.5 49.5
77 31.7 24.4 36.6





#37

Ethyl Acetate

Concen: 18.113 ug/l

RT: 7.553 min Scan# 952

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion: 43 Resp: 62310

Ion Ratio Lower Upper

43 100

61 12.0 10.9 16.3

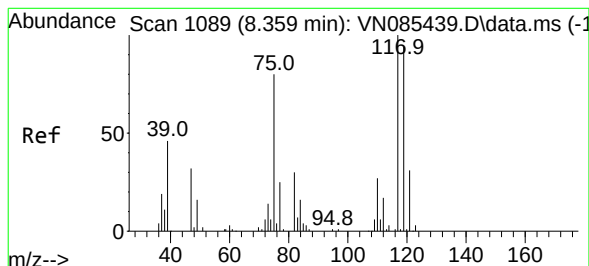
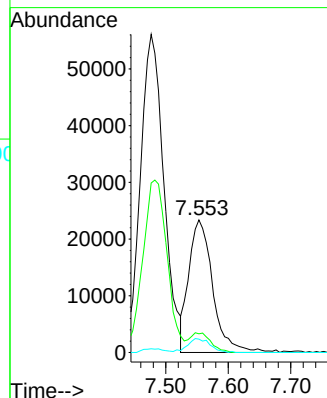
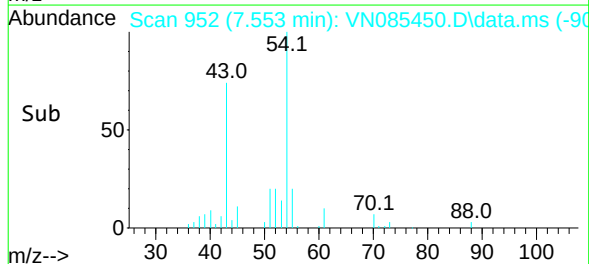
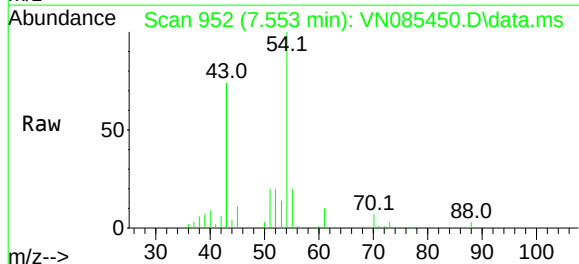
70 9.8 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#38

Carbon Tetrachloride

Concen: 19.039 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

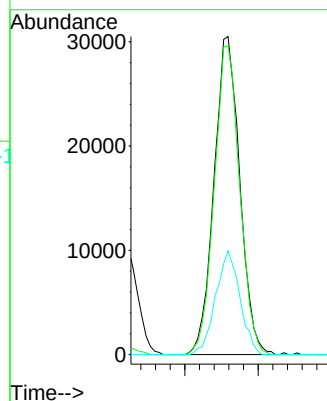
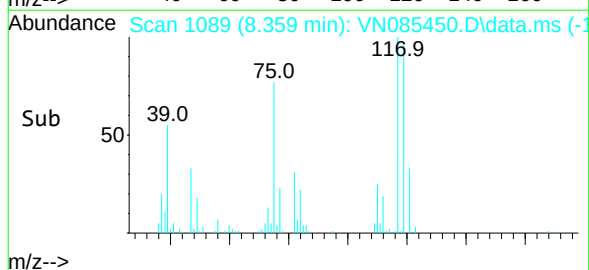
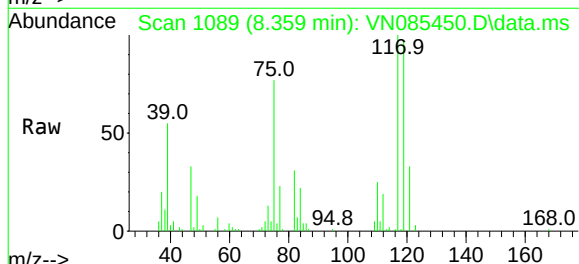
Tgt Ion:117 Resp: 74287

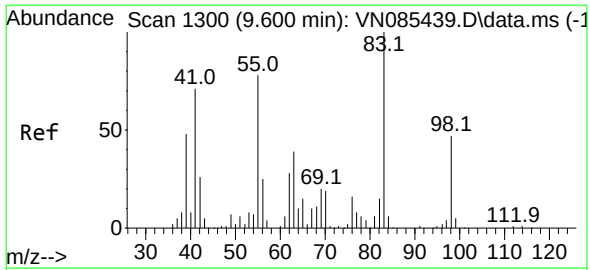
Ion Ratio Lower Upper

117 100

119 97.1 75.4 113.2

121 32.6 24.6 37.0





#39

Methylcyclohexane

Concen: 19.799 ug/l

RT: 9.594 min Scan# 12

Delta R.T. -0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion: 83 Resp: 63410

Ion Ratio Lower Upper

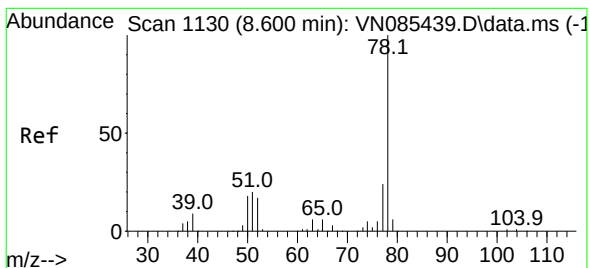
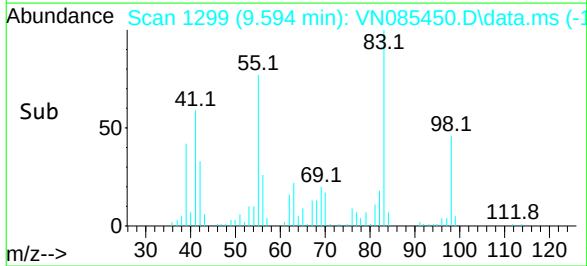
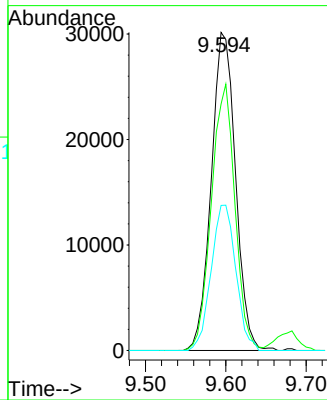
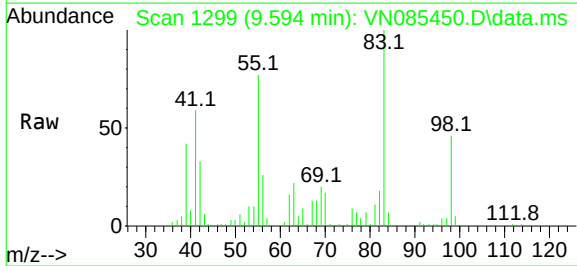
83 100

55 77.5 62.6 94.0

98 45.6 37.7 56.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#40

Benzene

Concen: 19.222 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085450.D

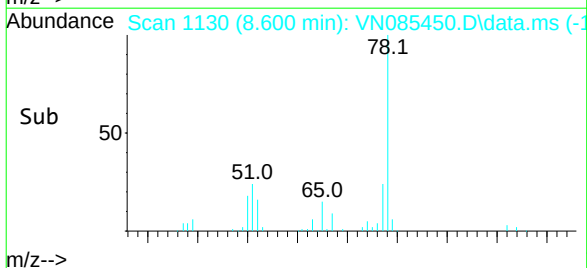
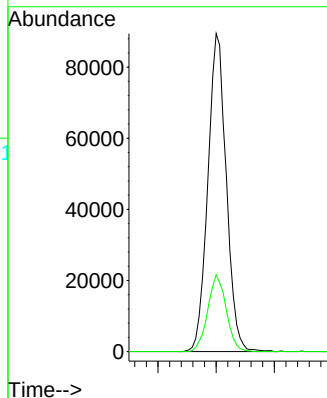
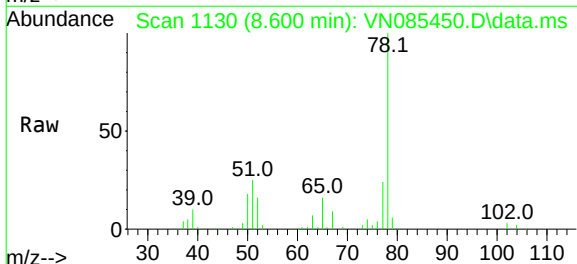
Acq: 15 Jan 2025 10:29

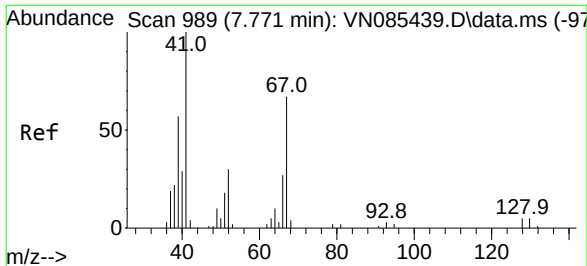
Tgt Ion: 78 Resp: 196843

Ion Ratio Lower Upper

78 100

77 24.1 19.0 28.6





#41

Methacrylonitrile

Concen: 19.082 ug/l

RT: 7.771 min Scan# 989

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion: 41 Resp: 34152

Ion Ratio Lower Upper

41 100

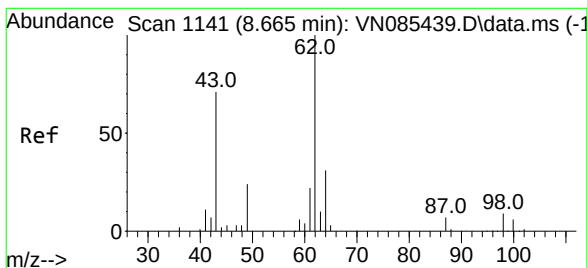
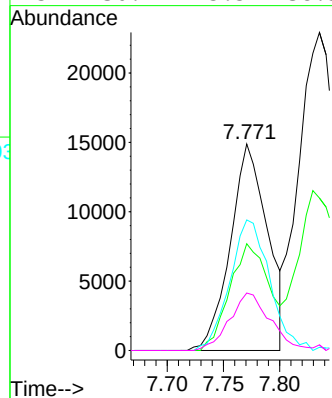
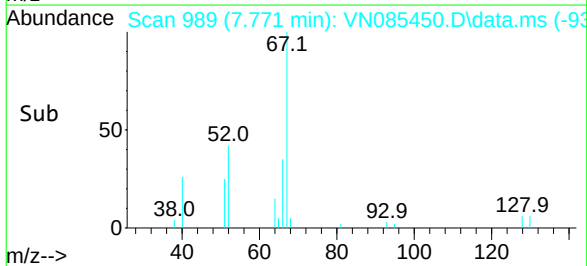
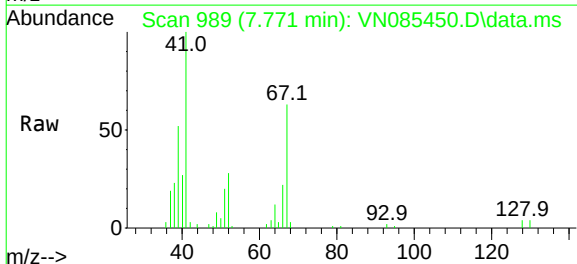
39 55.0 46.0 69.0

67 68.1 57.4 86.2

52 30.4 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#42

1,2-Dichloroethane

Concen: 18.835 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN085450.D

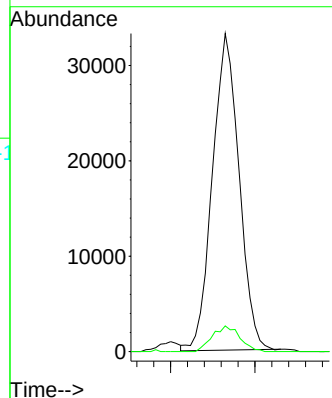
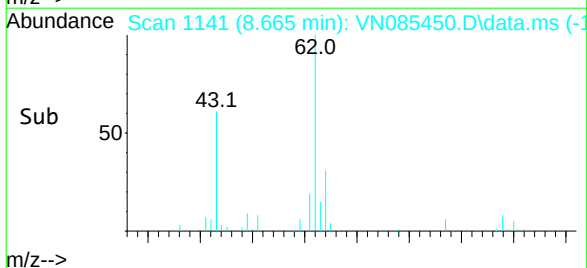
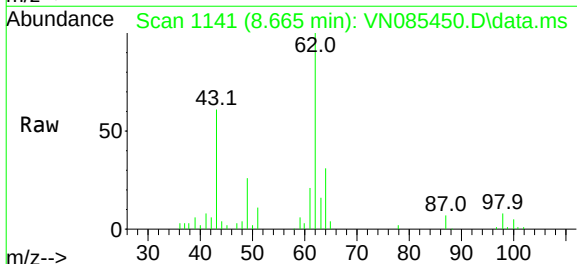
Acq: 15 Jan 2025 10:29

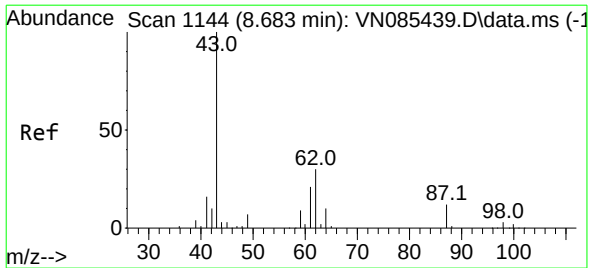
Tgt Ion: 62 Resp: 72644

Ion Ratio Lower Upper

62 100

98 8.4 0.0 17.0





#43

Isopropyl Acetate

Concen: 18.059 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion: 43 Resp: 99545

Ion Ratio Lower Upper

43 100

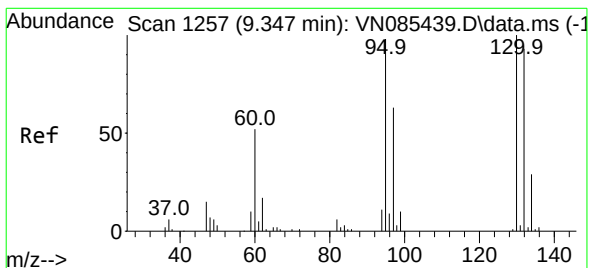
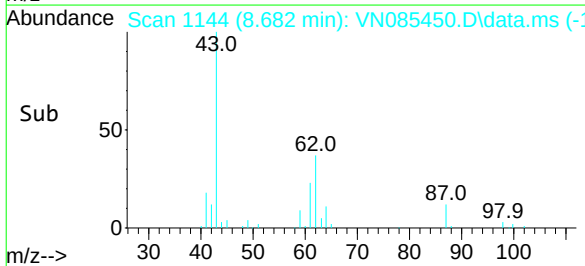
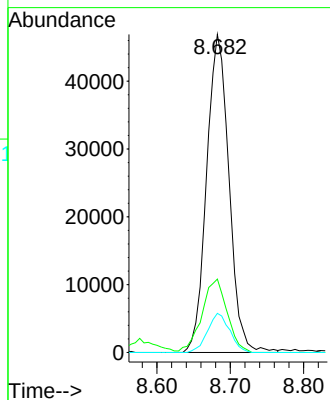
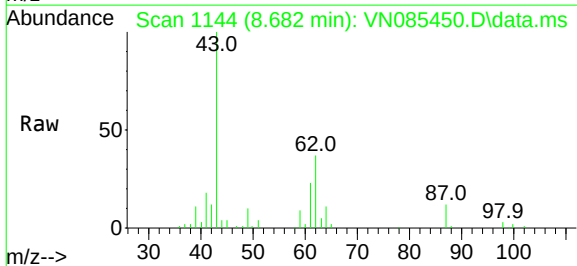
61 26.0 20.7 31.1

87 12.1 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#44

Trichloroethene

Concen: 19.224 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.000 min

Lab File: VN085450.D

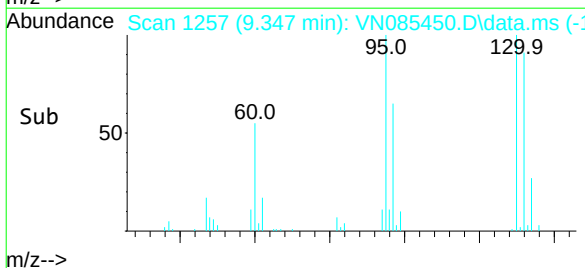
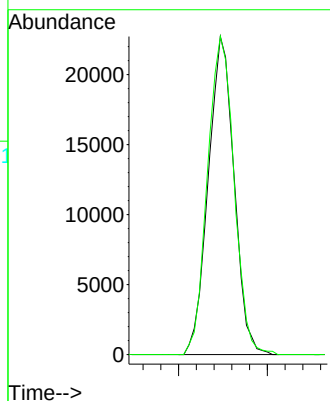
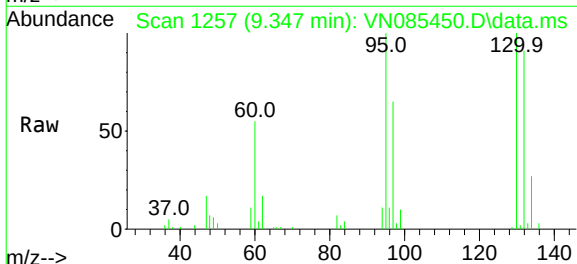
Acq: 15 Jan 2025 10:29

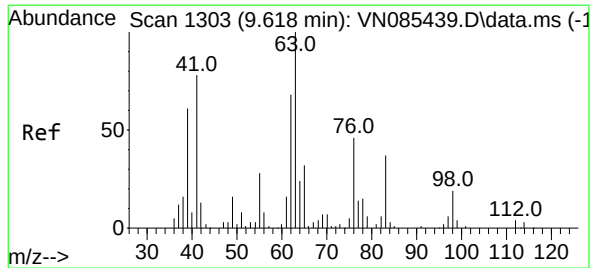
Tgt Ion:130 Resp: 45825

Ion Ratio Lower Upper

130 100

95 100.0 0.0 195.8





#45

1,2-Dichloropropane

Concen: 18.931 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion: 63 Resp: 49517

Ion Ratio Lower Upper

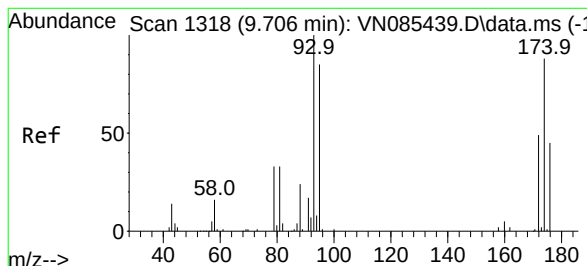
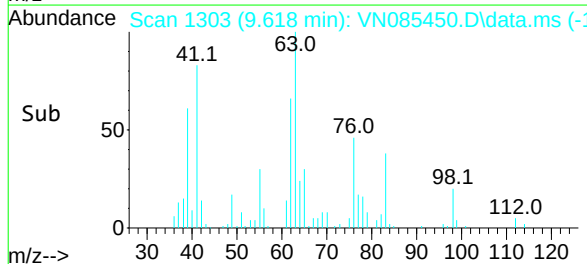
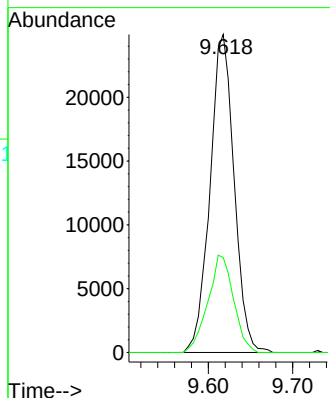
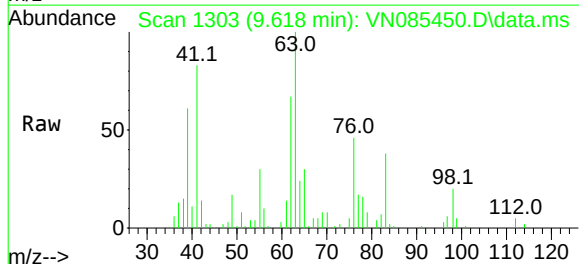
63 100

65 29.8 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025



#46

Dibromomethane

Concen: 18.531 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

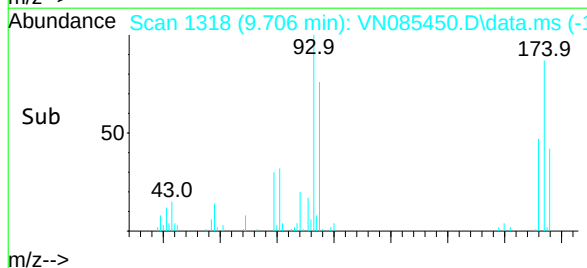
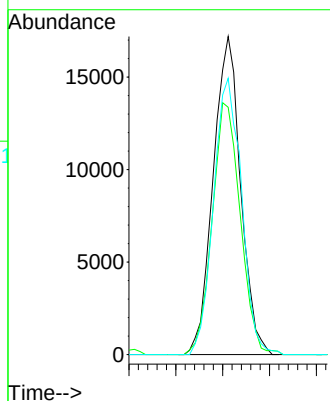
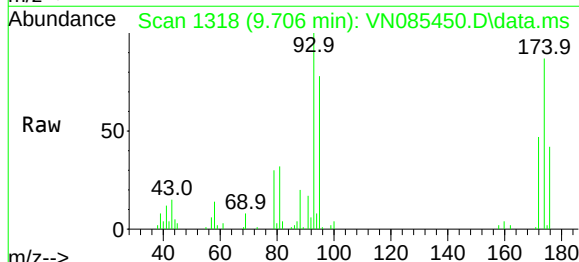
Tgt Ion: 93 Resp: 34976

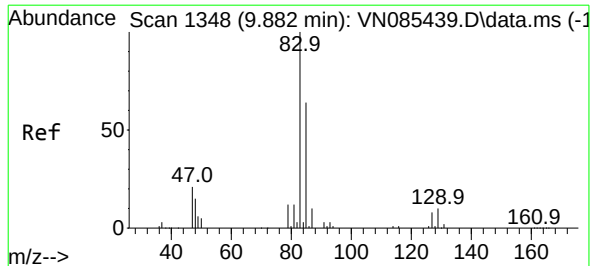
Ion Ratio Lower Upper

93 100

95 80.9 64.7 97.1

174 88.6 69.0 103.4





#47

Bromodichloromethane

Concen: 19.759 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

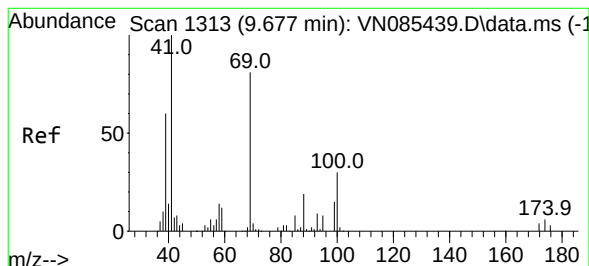
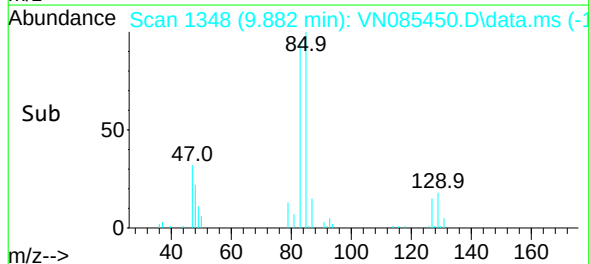
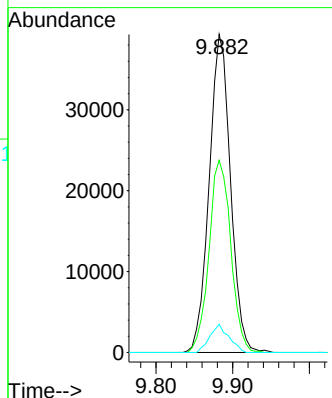
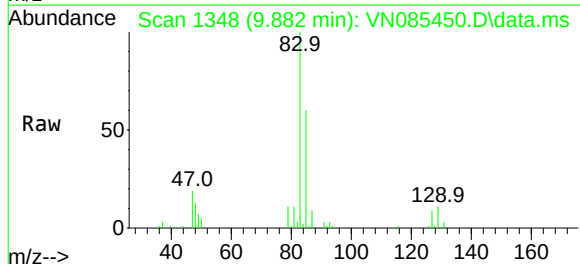
ClientSampleId :

VN0115WBS01

Tgt Ion:	83	Resp:	75979
Ion	Ratio	Lower	Upper
83	100		
85	60.4	51.2	76.8
127	8.8	6.5	9.7

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#48

Methyl methacrylate

Concen: 19.143 ug/l

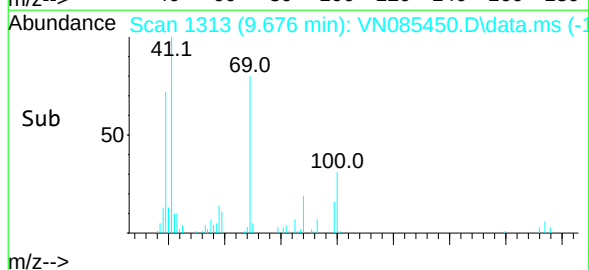
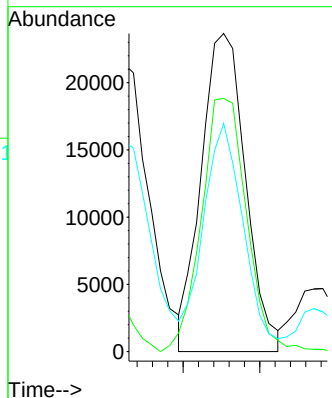
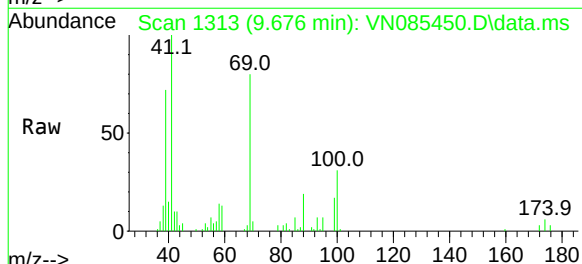
RT: 9.676 min Scan# 1313

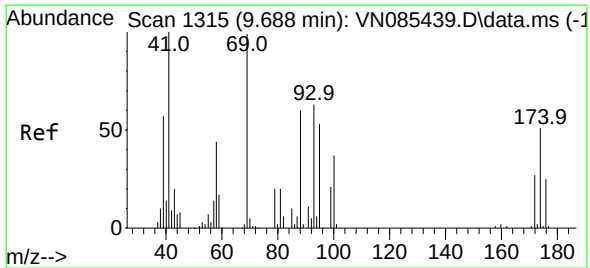
Delta R.T. -0.001 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

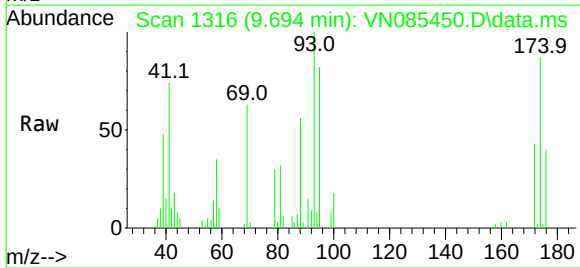
Tgt Ion:	41	Resp:	47488
Ion	Ratio	Lower	Upper
41	100		
69	81.2	64.7	97.1
39	65.3	49.0	73.6





#49
1,4-Dioxane
Concen: 343.615 ug/l
RT: 9.694 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

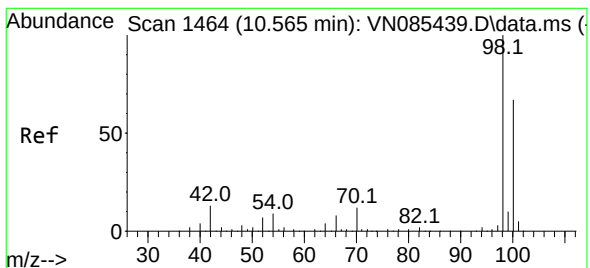
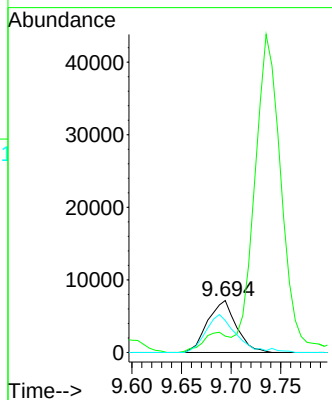
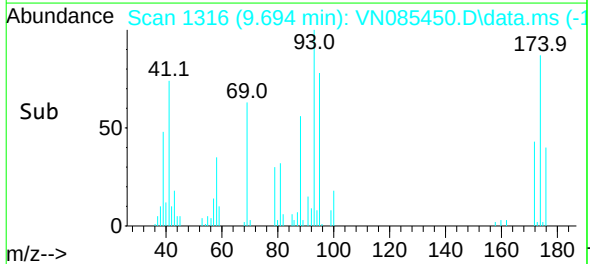
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01



Tgt Ion: 88 Resp: 14354
Ion Ratio Lower Upper
88 100
43 36.4 26.6 39.8
58 77.8 59.5 89.3

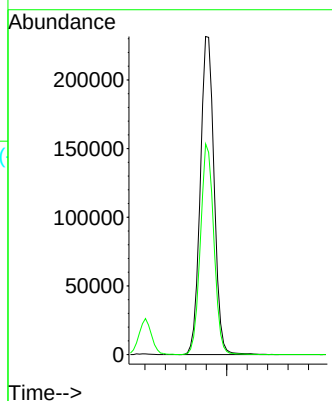
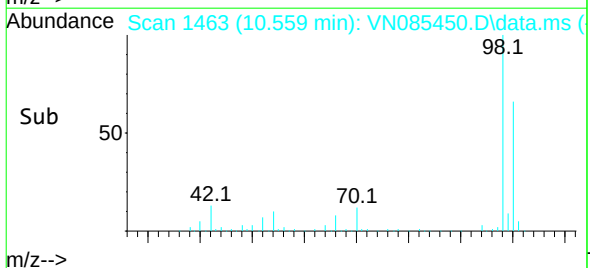
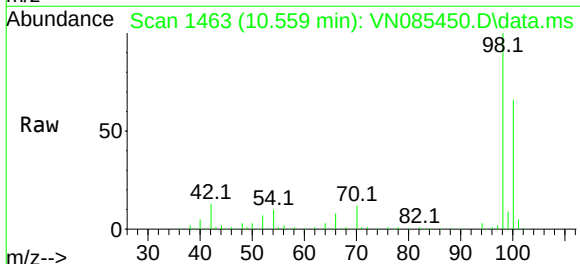
Manual Integrations
APPROVED

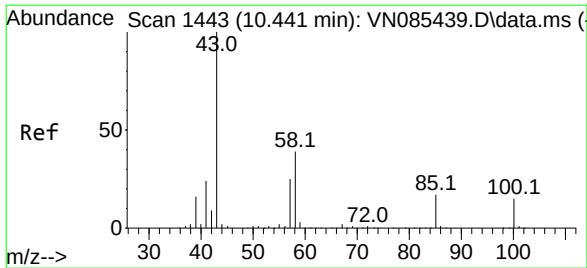
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#50
Toluene-d8
Concen: 50.376 ug/l
RT: 10.559 min Scan# 1463
Delta R.T. -0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 98 Resp: 434650
Ion Ratio Lower Upper
98 100
100 64.6 52.2 78.4





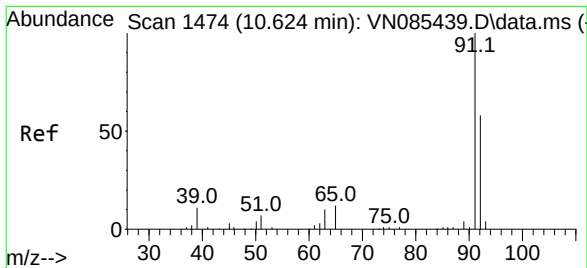
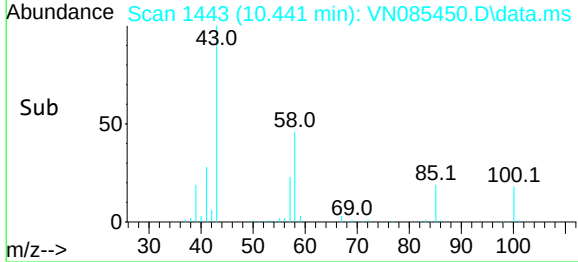
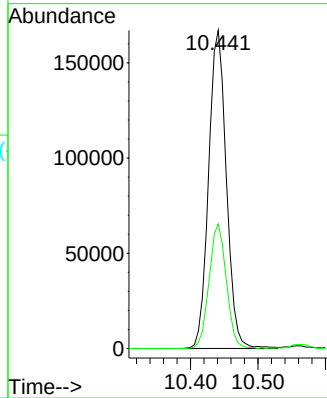
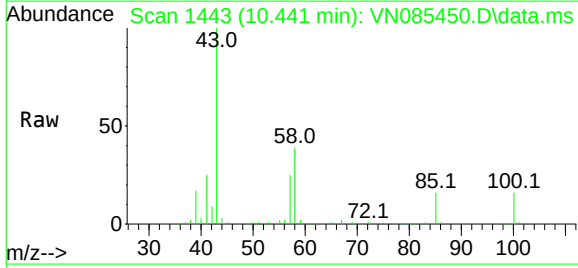
#51
4-Methyl-2-Pentanone
Concen: 95.328 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 43 Resp: 304924
Ion Ratio Lower Upper
43 100
58 38.1 30.5 45.7

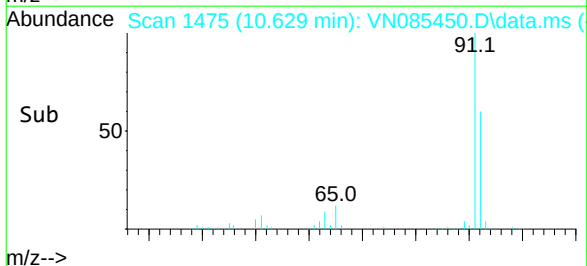
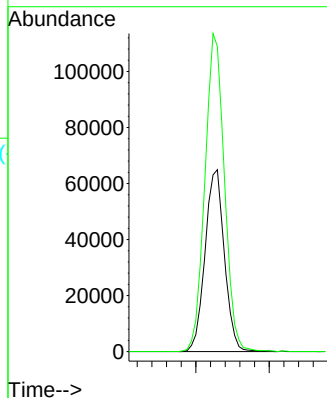
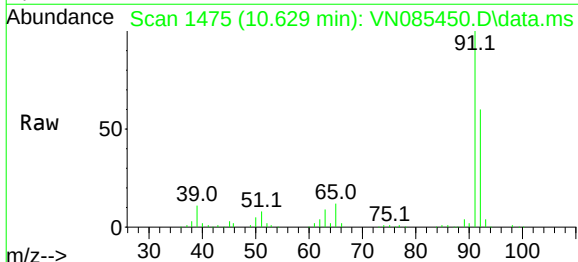
Manual Integrations
APPROVED

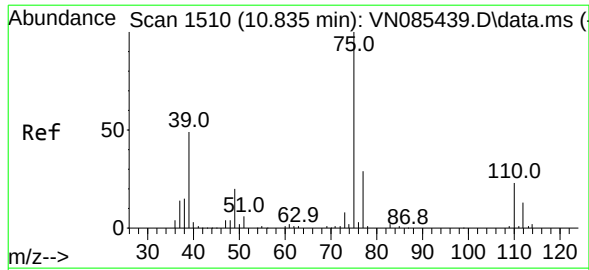
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#52
Toluene
Concen: 20.053 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 92 Resp: 118985
Ion Ratio Lower Upper
92 100
91 176.2 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 19.044 ug/l

RT: 10.829 min Scan# 1510

Delta R.T. -0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion: 75 Resp: 69201

Ion Ratio Lower Upper

75 100

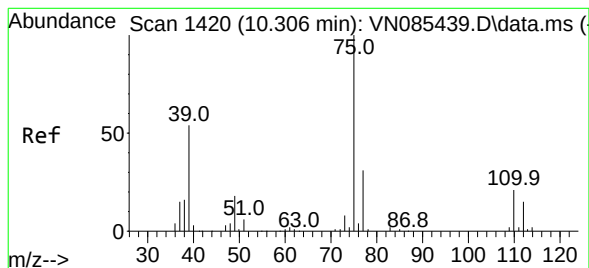
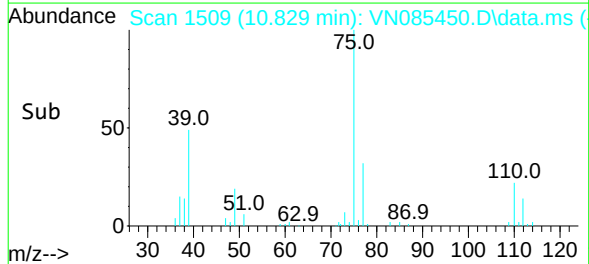
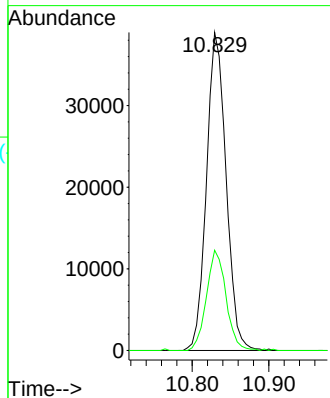
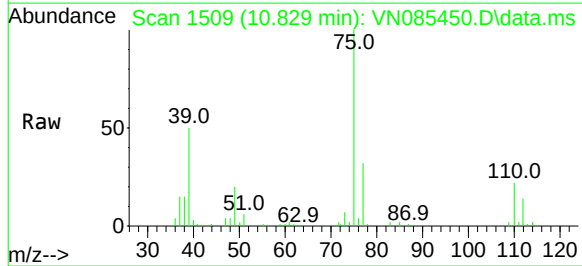
77 31.5 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#54

cis-1,3-Dichloropropene

Concen: 19.958 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

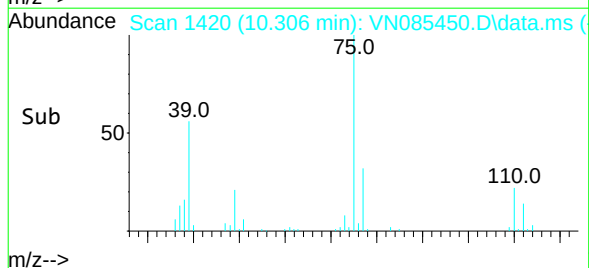
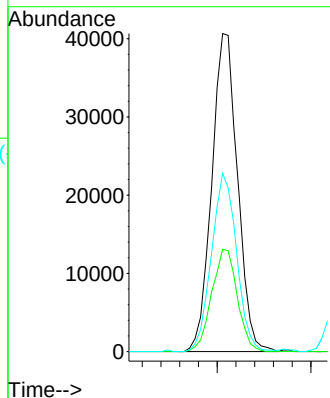
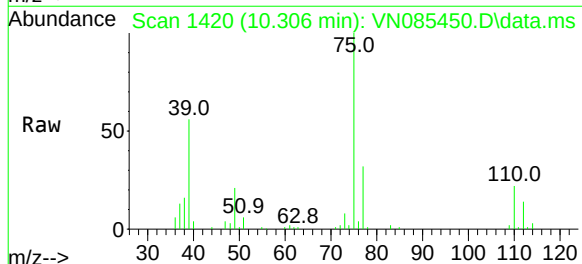
Tgt Ion: 75 Resp: 77467

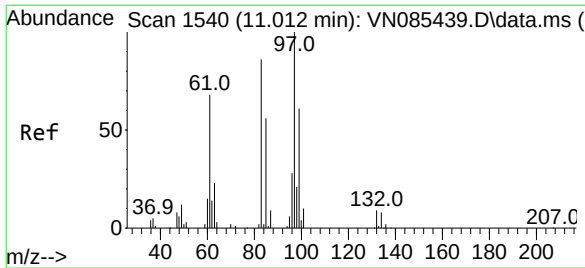
Ion Ratio Lower Upper

75 100

77 32.2 25.0 37.4

39 56.1 43.1 64.7





#55

1,1,2-Trichloroethane

Concen: 18.906 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion: 97 Resp: 44394

Ion Ratio Lower Upper

97 100

83 84.9 69.0 103.6

85 56.3 44.6 66.8

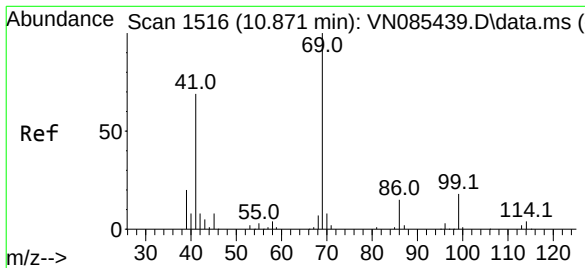
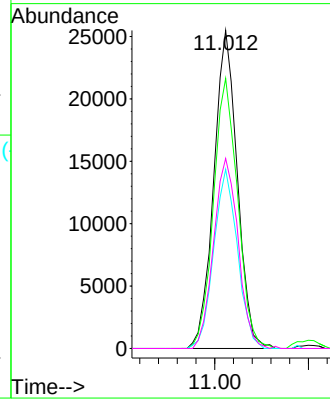
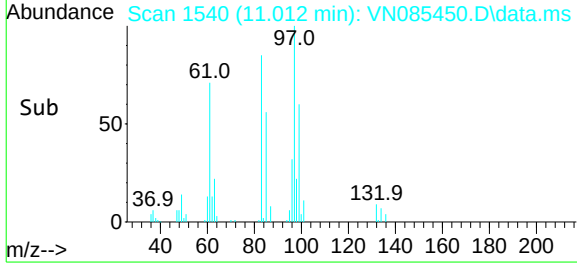
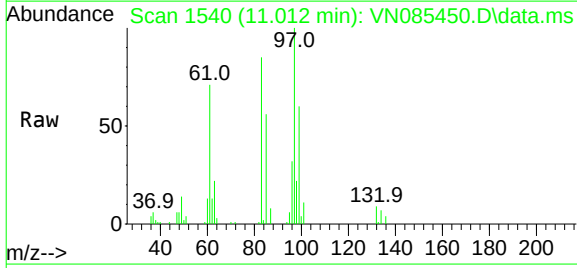
99 59.7 48.6 72.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#56

Ethyl methacrylate

Concen: 17.379 ug/l

RT: 10.870 min Scan# 1516

Delta R.T. -0.001 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

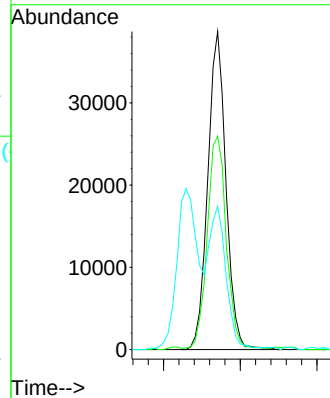
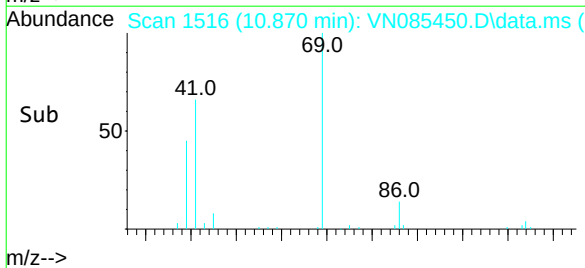
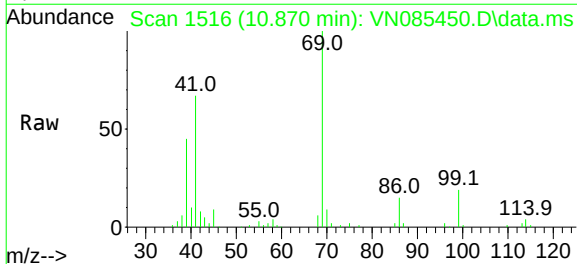
Tgt Ion: 69 Resp: 63560

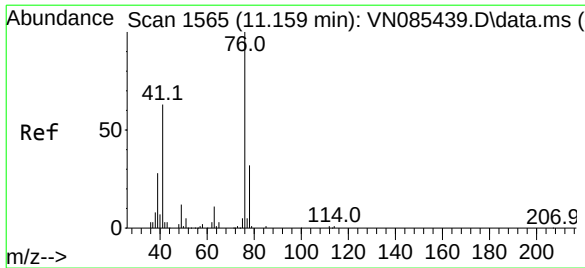
Ion Ratio Lower Upper

69 100

41 69.4 54.6 82.0

39 41.4 32.4 48.6





#57

1,3-Dichloropropane

Concen: 19.136 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion: 76 Resp: 78133

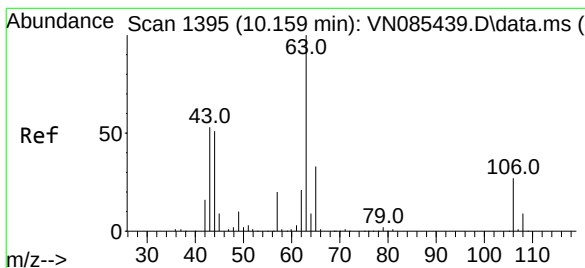
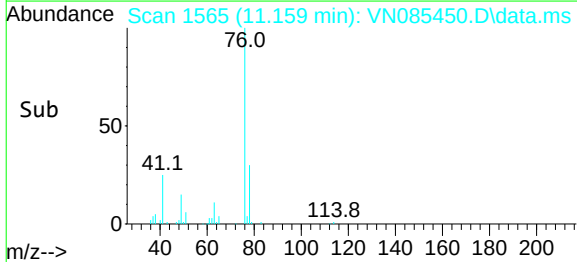
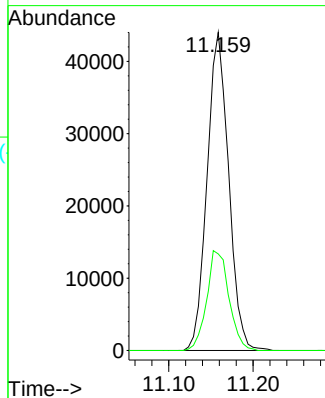
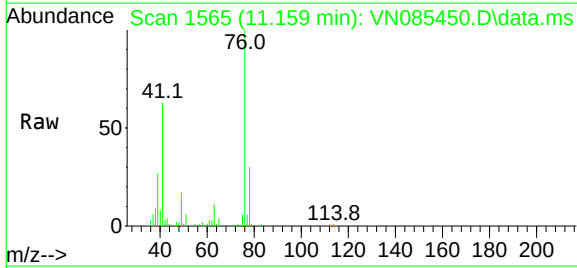
Ion Ratio Lower Upper

76 100

78 32.3 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#58

2-Chloroethyl Vinyl ether

Concen: 99.810 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. -0.006 min

Lab File: VN085450.D

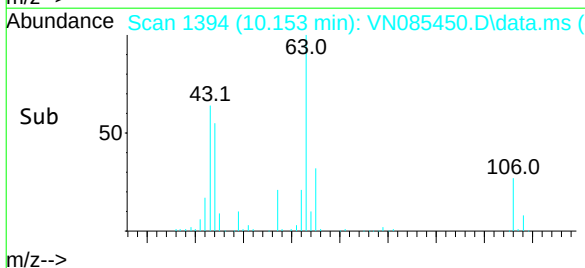
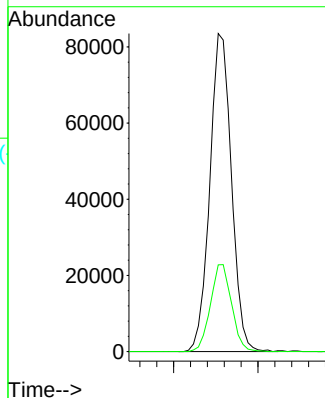
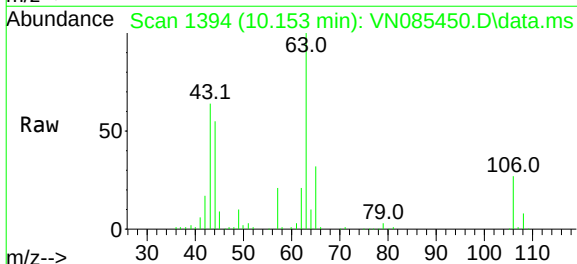
Acq: 15 Jan 2025 10:29

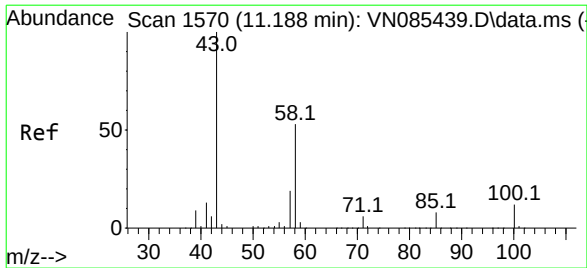
Tgt Ion: 63 Resp: 148732

Ion Ratio Lower Upper

63 100

106 26.7 21.6 32.4





#59

2-Hexanone

Concen: 96.472 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion: 43 Resp: 217128

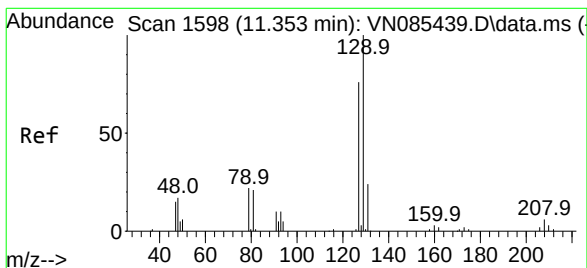
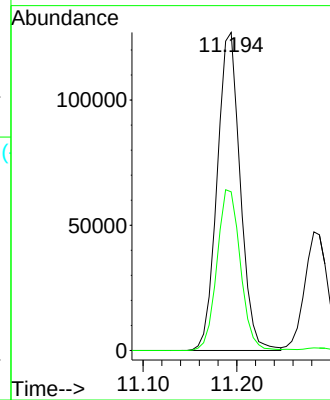
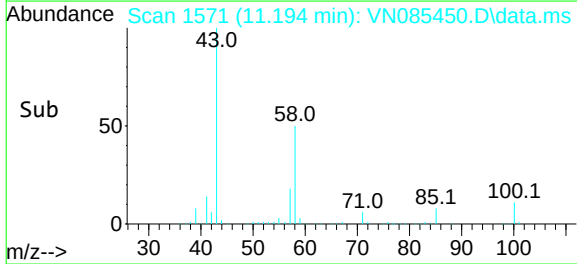
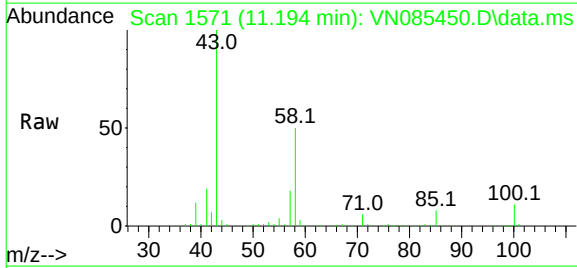
Ion Ratio Lower Upper

43 100

58 51.2 26.2 78.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#60

Dibromochloromethane

Concen: 19.097 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. -0.000 min

Lab File: VN085450.D

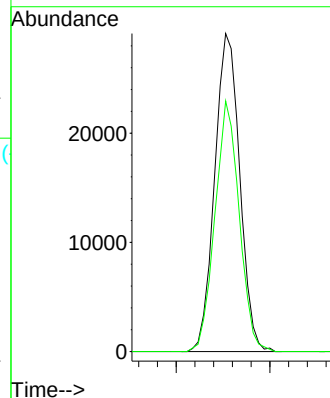
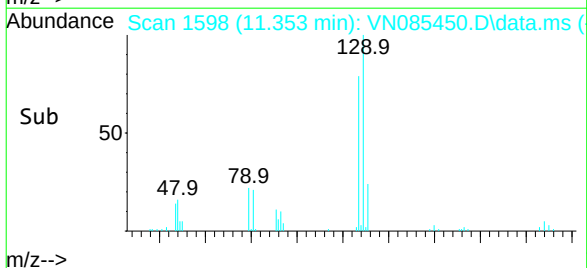
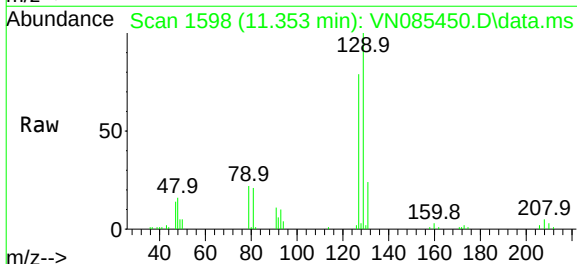
Acq: 15 Jan 2025 10:29

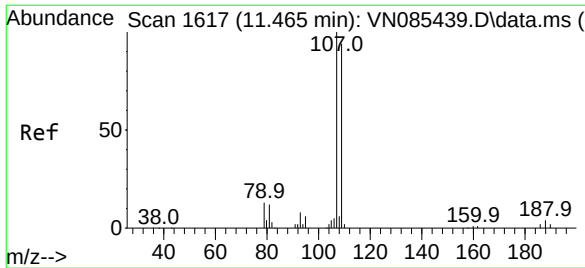
Tgt Ion:129 Resp: 54139

Ion Ratio Lower Upper

129 100

127 76.2 38.6 115.8





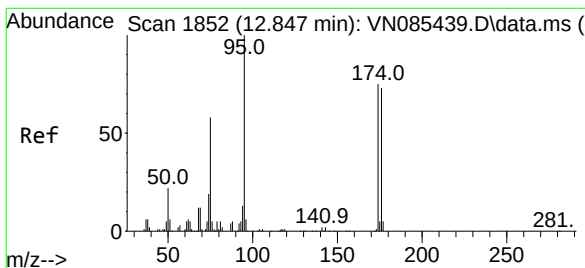
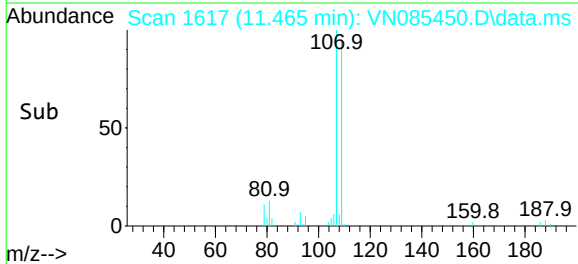
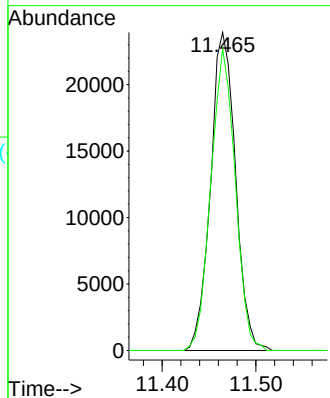
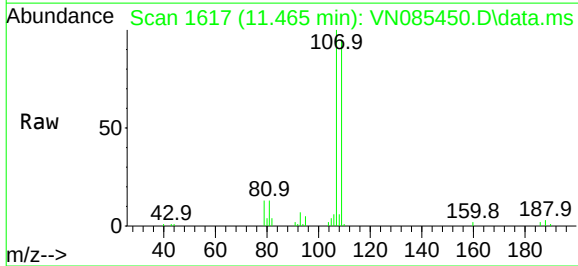
#61
1,2-Dibromoethane
Concen: 18.932 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 107 Resp: 44253
Ion Ratio Lower Upper
107 100
109 92.6 75.9 113.9

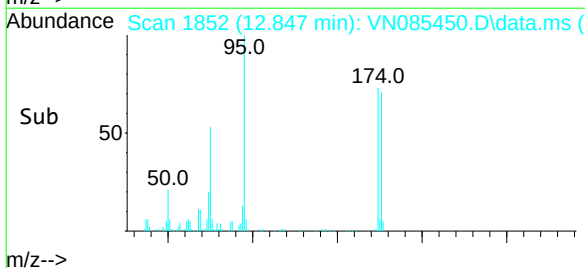
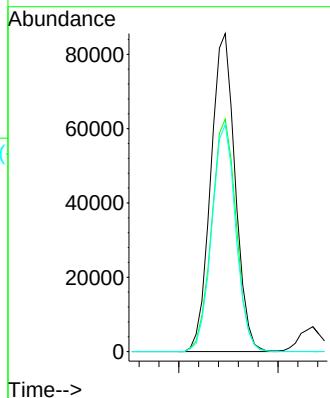
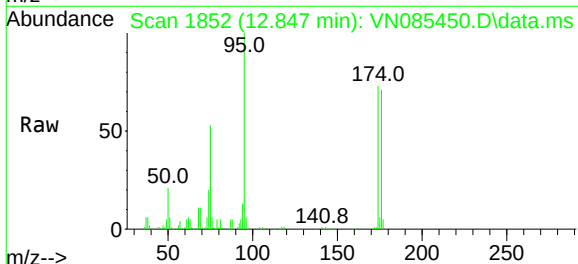
Manual Integrations
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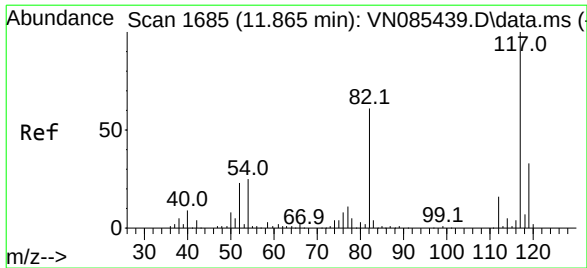
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#62
4-Bromofluorobenzene
Concen: 49.491 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 95 Resp: 146069
Ion Ratio Lower Upper
95 100
174 73.5 0.0 145.0
176 70.2 0.0 142.4





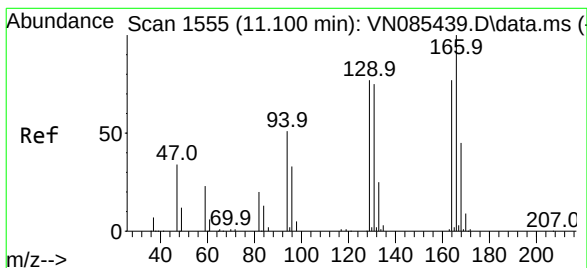
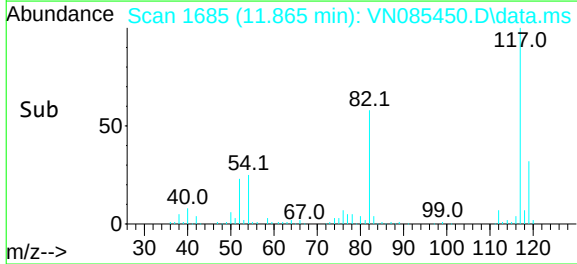
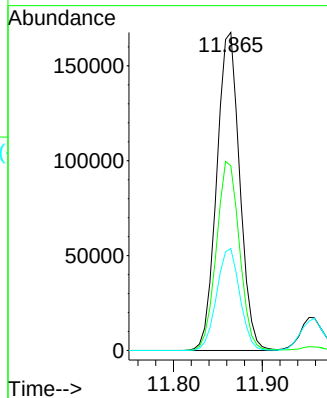
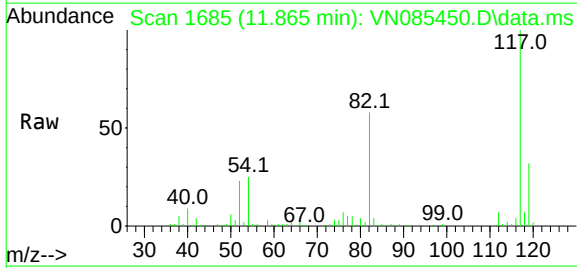
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion:117 Resp: 301633
Ion Ratio Lower Upper
117 100
82 58.1 48.6 72.8
119 32.1 26.6 39.8

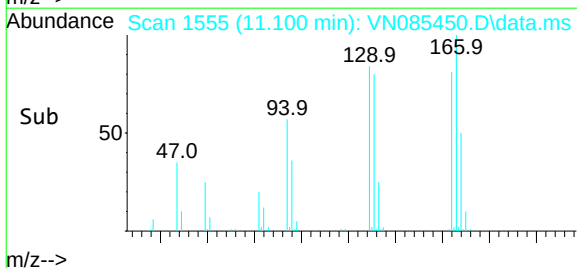
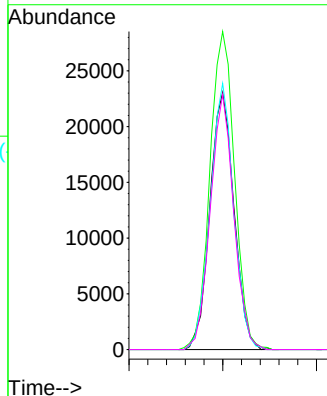
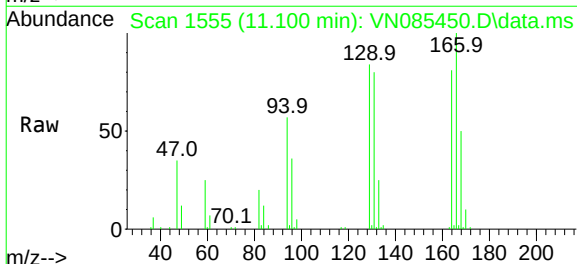
Manual Integrations
APPROVED

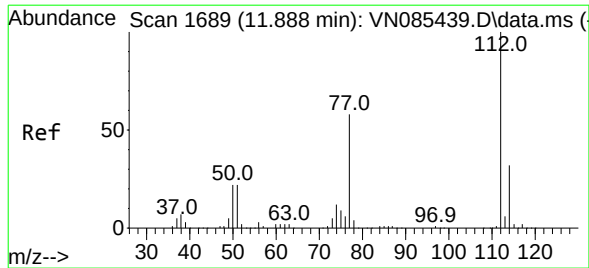
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#64
Tetrachloroethene
Concen: 20.068 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:164 Resp: 41267
Ion Ratio Lower Upper
164 100
166 123.7 103.4 155.2
129 103.5 79.2 118.8
131 99.2 77.1 115.7





#65

Chlorobenzene

Concen: 19.304 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion:112 Resp: 127557

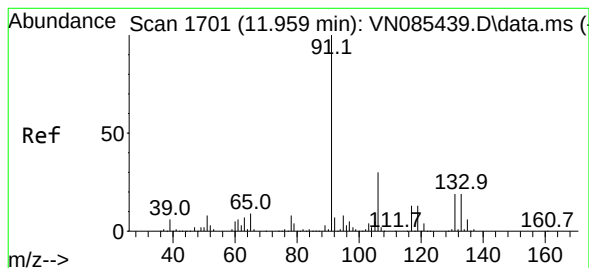
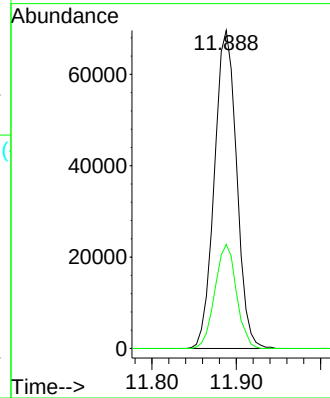
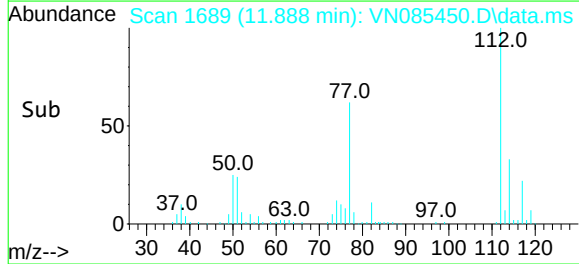
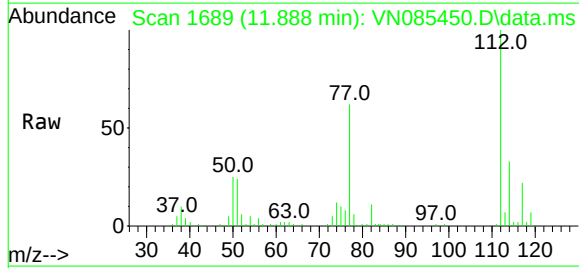
Ion Ratio Lower Upper

112 100

114 32.7 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#66

1,1,1,2-Tetrachloroethane

Concen: 18.821 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

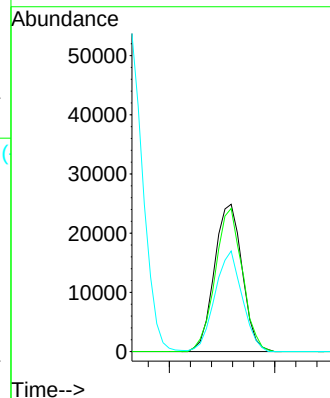
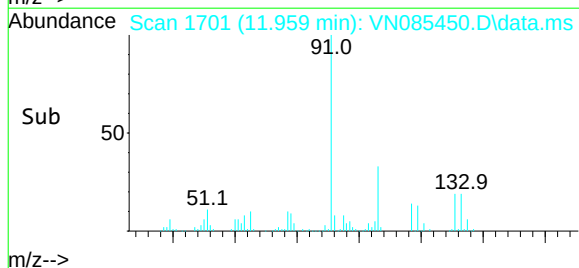
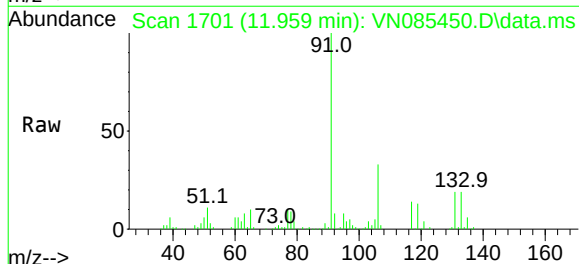
Tgt Ion:131 Resp: 45645

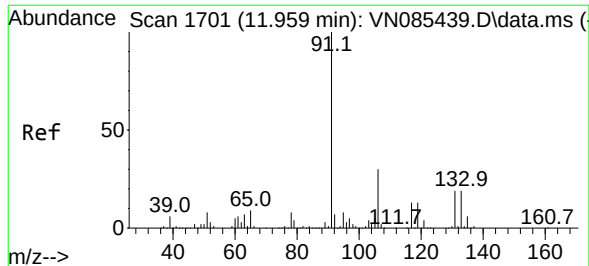
Ion Ratio Lower Upper

131 100

133 94.9 47.4 142.3

119 66.9 33.1 99.5





#67

Ethyl Benzene

Concen: 20.019 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085450.D

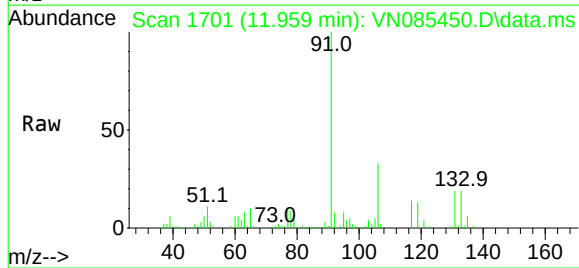
Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01



Tgt Ion: 91 Resp: 215448

Ion Ratio Lower Upper

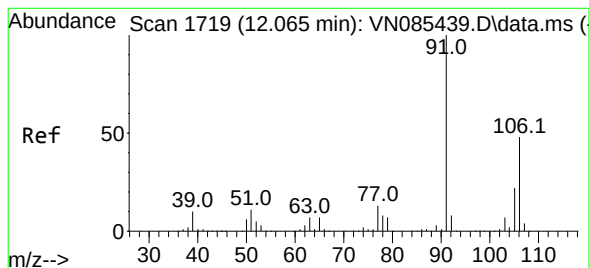
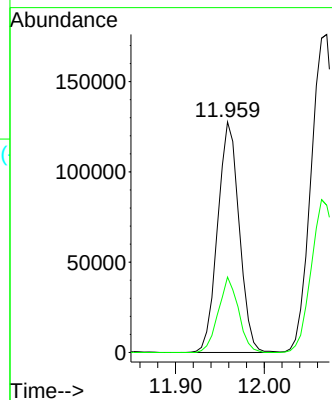
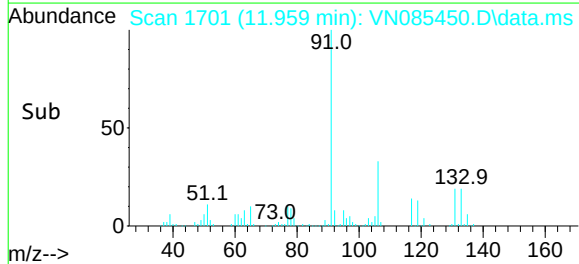
91 100

106 32.7 23.8 35.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#68

m/p-Xylenes

Concen: 41.314 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. -0.000 min

Lab File: VN085450.D

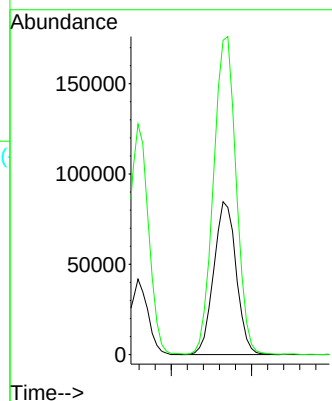
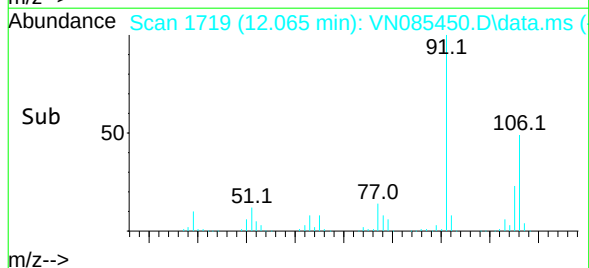
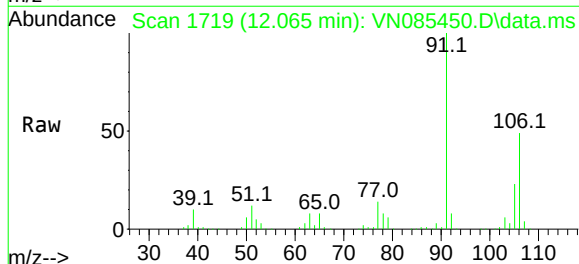
Acq: 15 Jan 2025 10:29

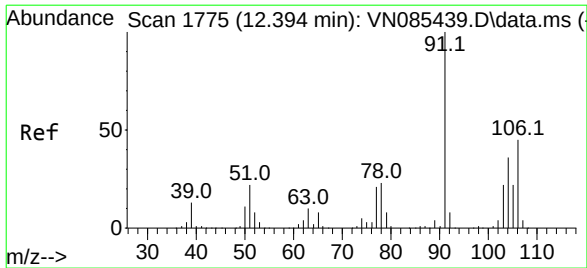
Tgt Ion:106 Resp: 164329

Ion Ratio Lower Upper

106 100

91 209.5 167.7 251.5





#69

o-Xylene

Concen: 20.184 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion:106 Resp: 76723

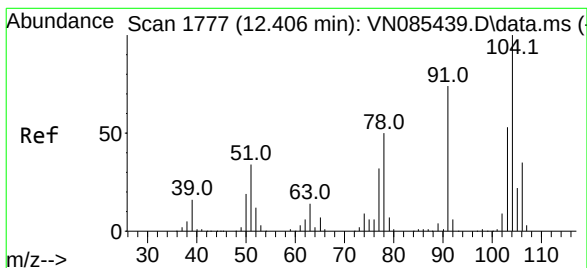
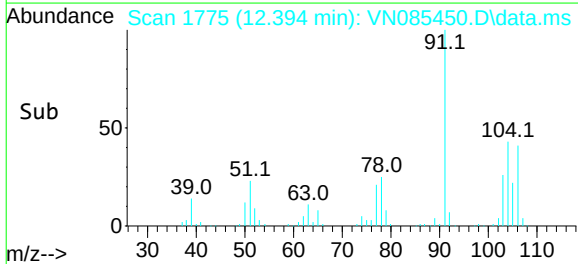
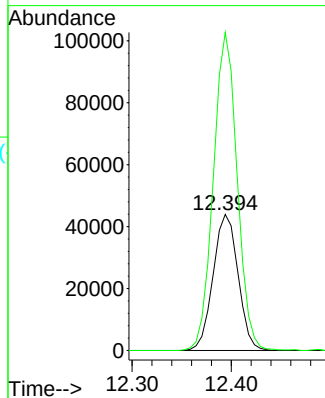
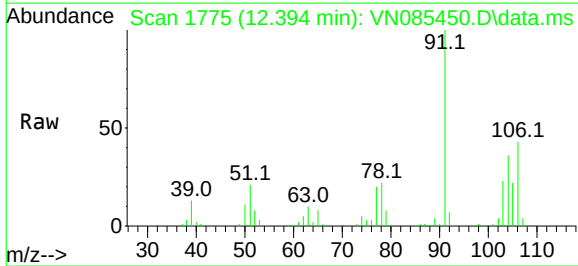
Ion Ratio Lower Upper

106 100

91 223.5 110.4 331.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#70

Styrene

Concen: 20.358 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

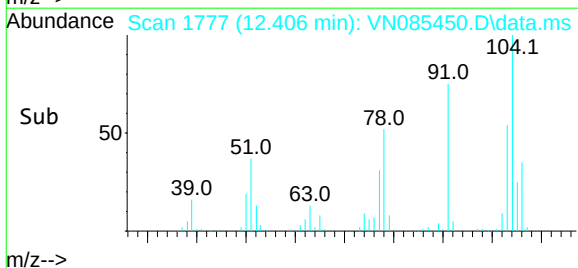
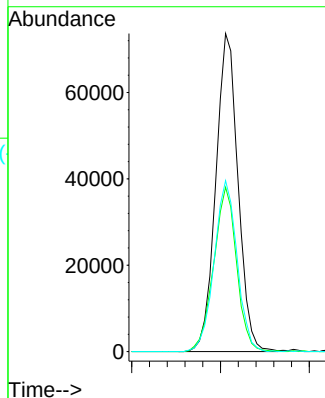
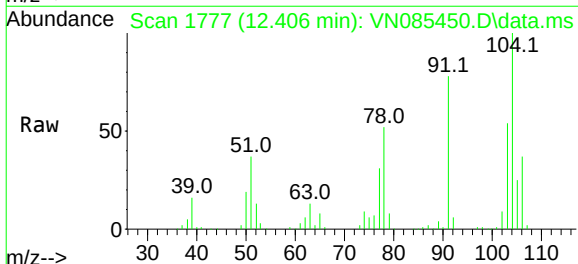
Tgt Ion:104 Resp: 128074

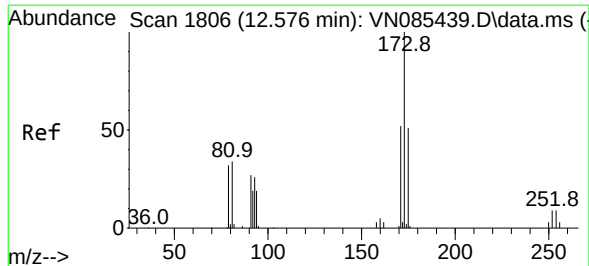
Ion Ratio Lower Upper

104 100

78 53.2 42.5 63.7

103 55.3 43.8 65.8





#71

Bromoform

Concen: 19.837 ug/l

RT: 12.570 min Scan# 1806

Delta R.T. -0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion:173 Resp: 34422

Ion Ratio Lower Upper

173 100

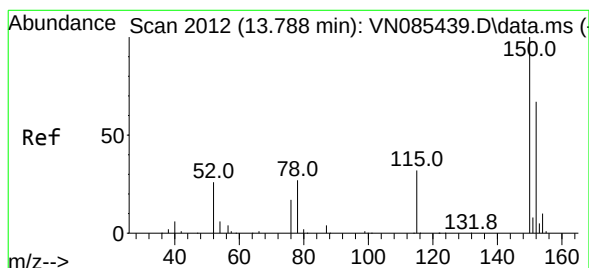
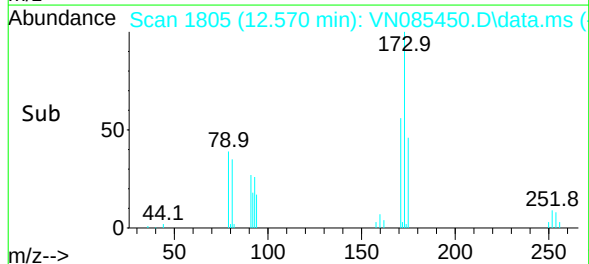
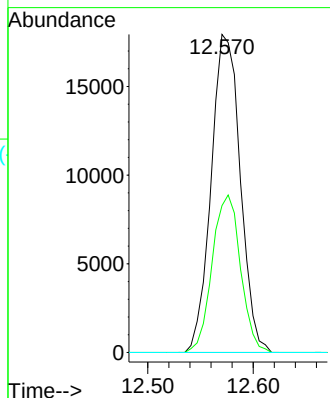
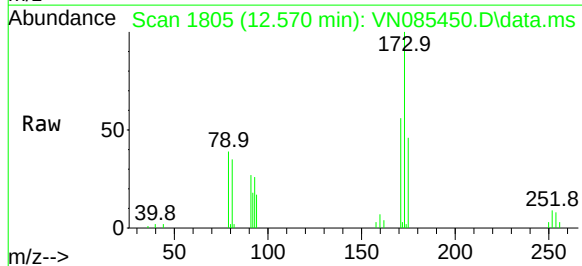
175 48.1 24.4 73.2

254 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

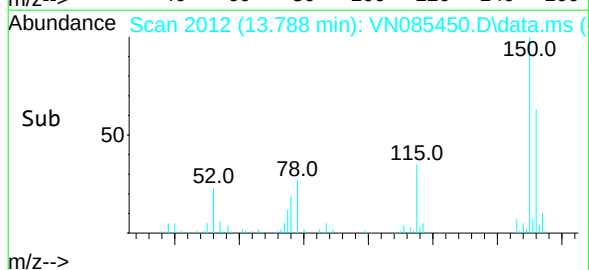
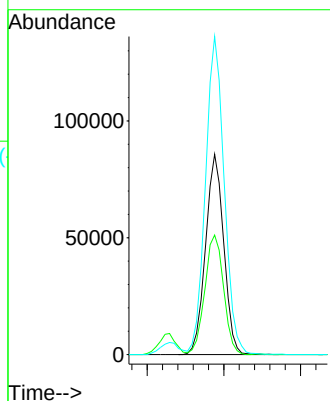
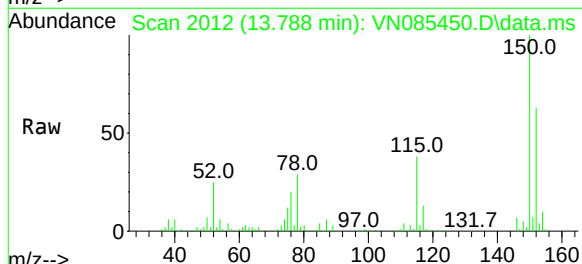
Tgt Ion:152 Resp: 141189

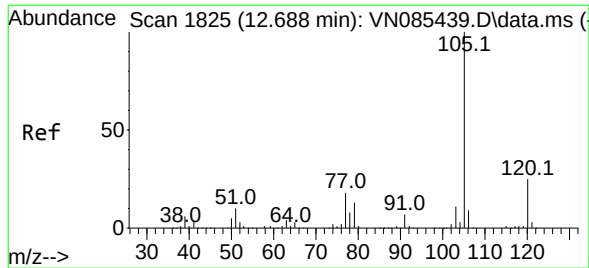
Ion Ratio Lower Upper

152 100

115 61.5 31.1 93.3

150 163.3 0.0 343.6





#73

Isopropylbenzene

Concen: 20.668 ug/l

RT: 12.694 min Scan# 1825

Delta R.T. 0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion: 105 Resp: 196948

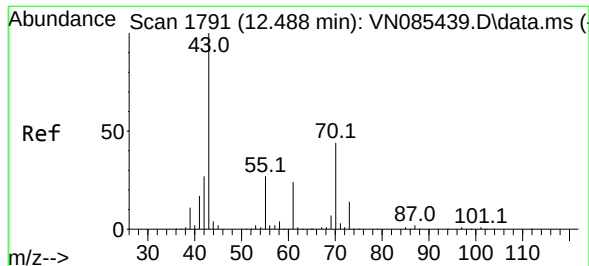
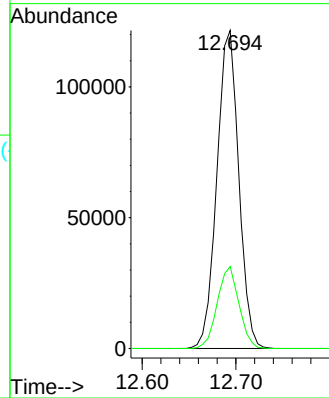
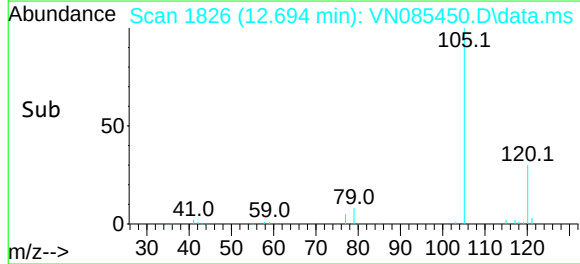
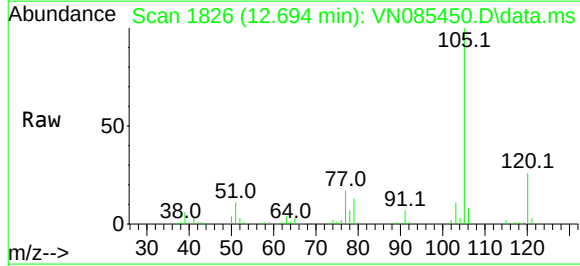
Ion Ratio Lower Upper

105 100

120 25.5 12.8 38.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#74

N-ethyl acetate

Concen: 18.746 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Tgt Ion: 43 Resp: 80290

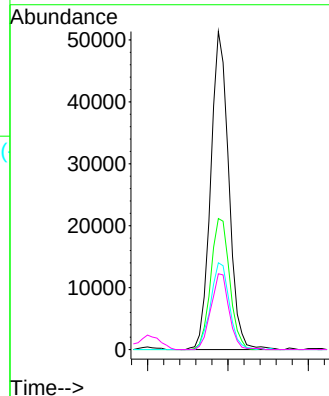
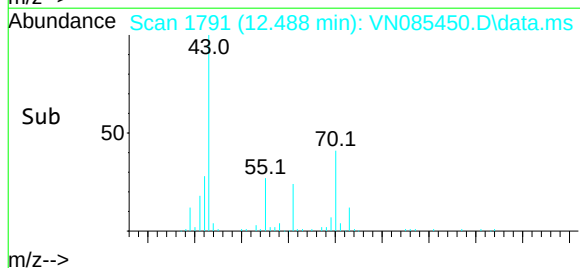
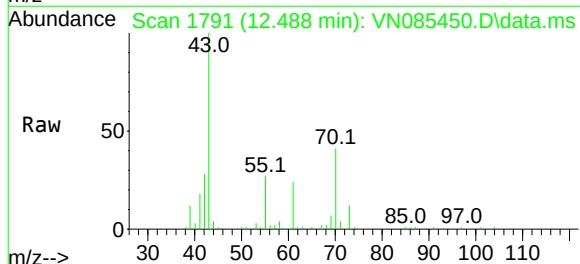
Ion Ratio Lower Upper

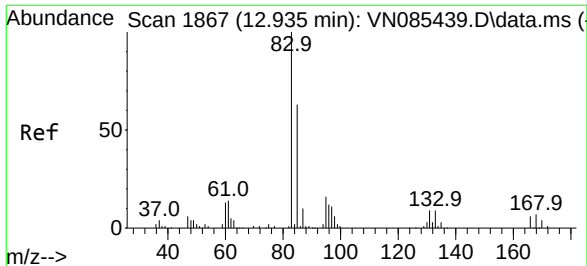
43 100

70 43.0 34.0 51.0

55 28.2 21.4 32.2

61 23.8 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 18.510 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

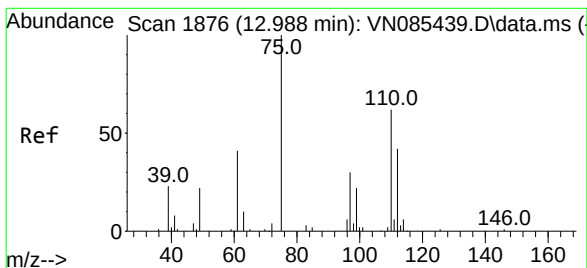
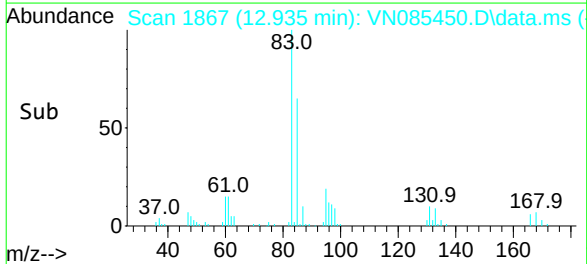
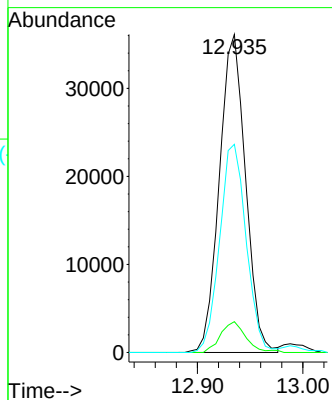
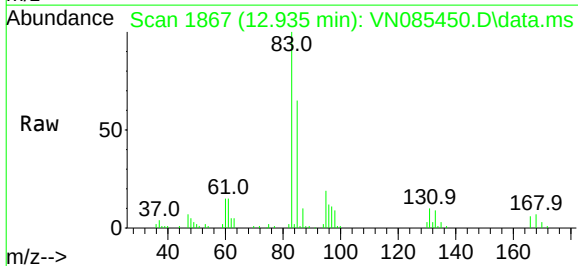
VN0115WBS01

Tgt Ion:	83	Resp:	62306
Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.8	14.4
85	66.2	32.2	96.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#76

1,2,3-Trichloropropane

Concen: 20.099 ug/l m

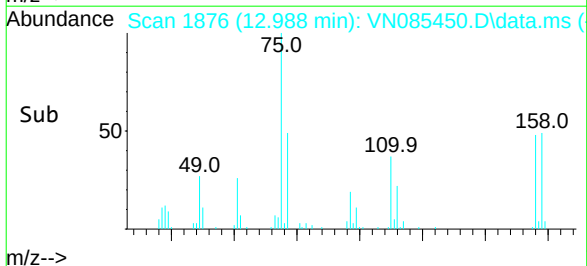
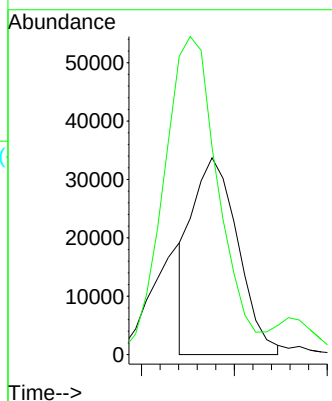
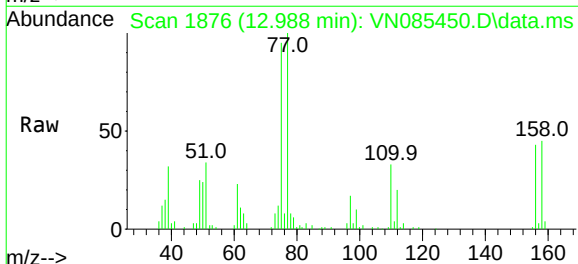
RT: 12.988 min Scan# 1876

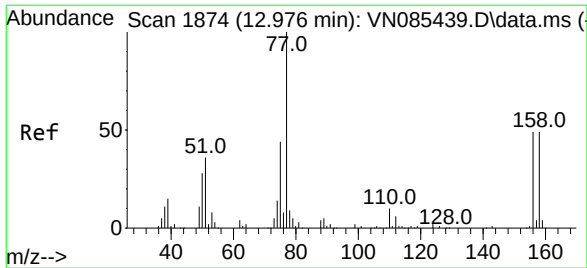
Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Tgt Ion:	75	Resp:	57678
Ion	Ratio	Lower	Upper
75	100		
77	194.7	109.7	329.2





#77

Bromobenzene

Concen: 19.283 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN085450.D

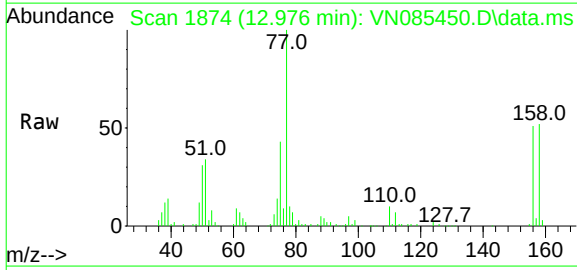
Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01



Tgt Ion: 156 Resp: 48006

Ion Ratio Lower Upper

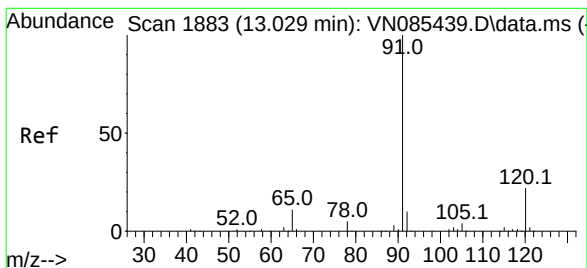
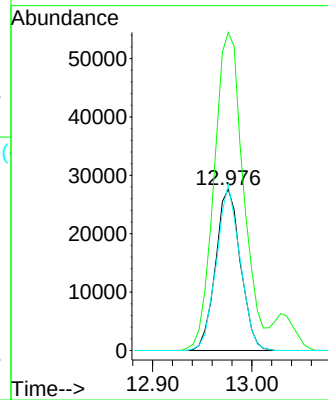
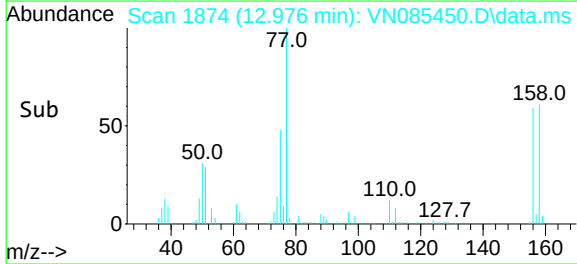
156 100

77 233.9 114.1 342.4

158 97.9 48.9 146.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#78

n-propylbenzene

Concen: 20.759 ug/l

RT: 13.029 min Scan# 1883

Delta R.T. -0.000 min

Lab File: VN085450.D

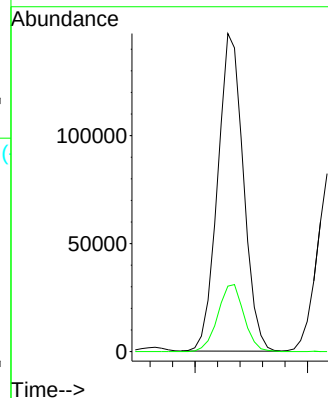
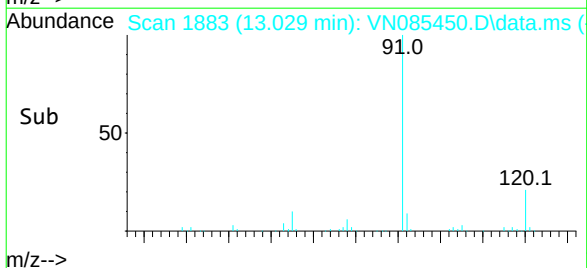
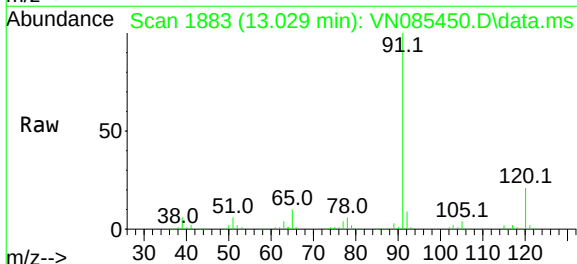
Acq: 15 Jan 2025 10:29

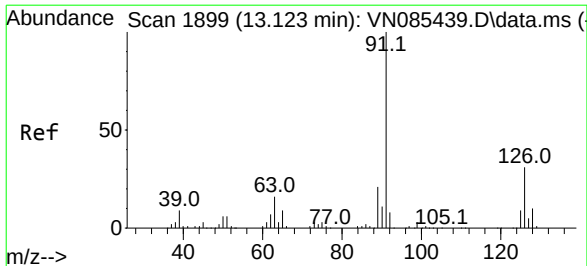
Tgt Ion: 91 Resp: 234178

Ion Ratio Lower Upper

91 100

120 21.4 10.9 32.6





#79

2-Chlorotoluene

Concen: 20.351 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion: 91 Resp: 148584

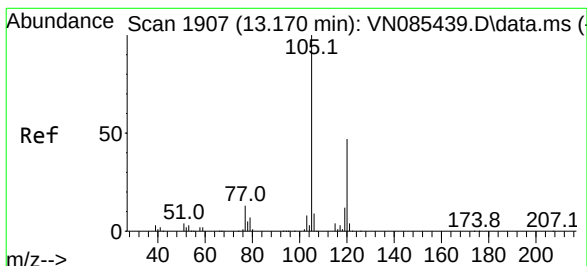
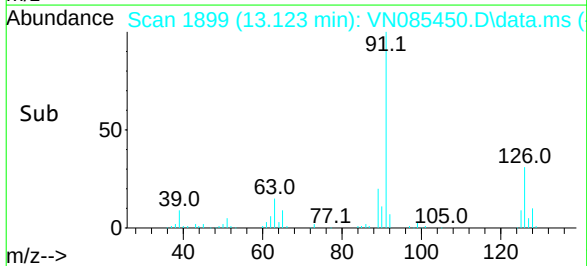
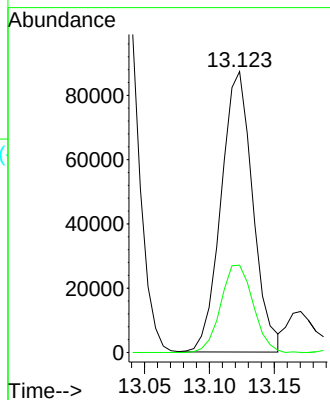
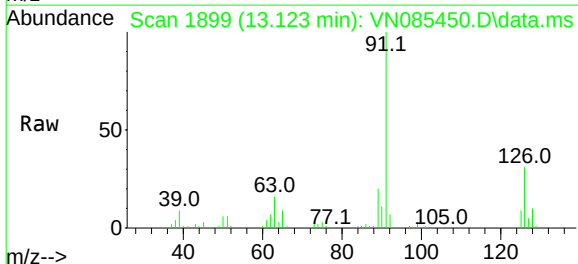
Ion Ratio Lower Upper

91 100

126 31.7 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#80

1,3,5-Trimethylbenzene

Concen: 21.282 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085450.D

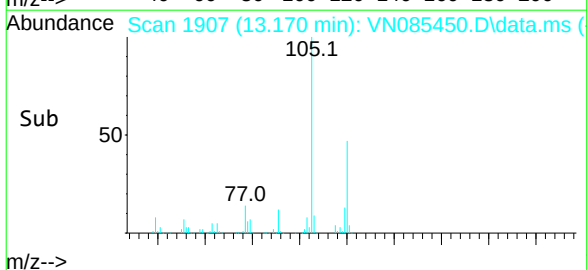
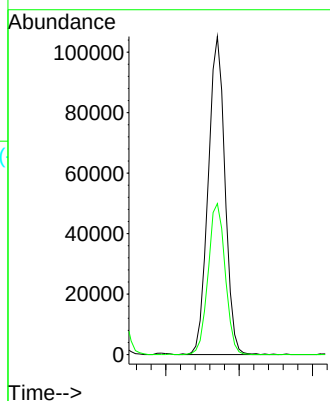
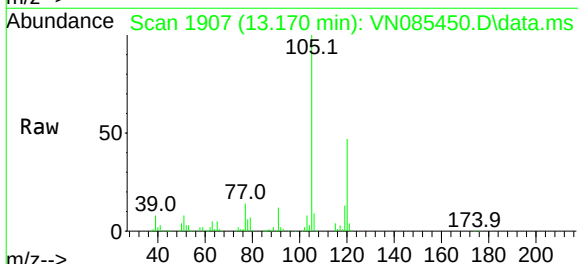
Acq: 15 Jan 2025 10:29

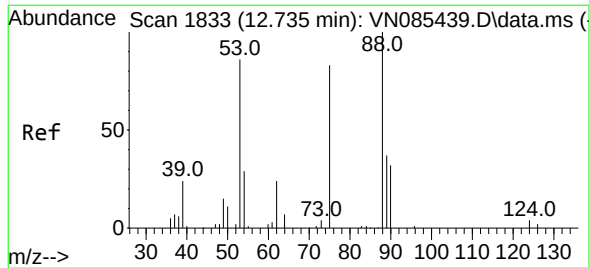
Tgt Ion:105 Resp: 167516

Ion Ratio Lower Upper

105 100

120 48.1 23.9 71.7





#81

trans-1,4-Dichloro-2-butene

Concen: 18.905 ug/l m

RT: 12.729 min Scan# 18

Delta R.T. -0.006 min

Lab File: VN085450.D

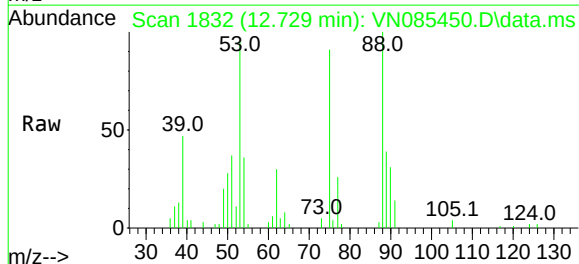
Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01



Tgt Ion: 75 Resp: 20052

Ion Ratio Lower Upper

75 100

53 125.4 95.6 143.4

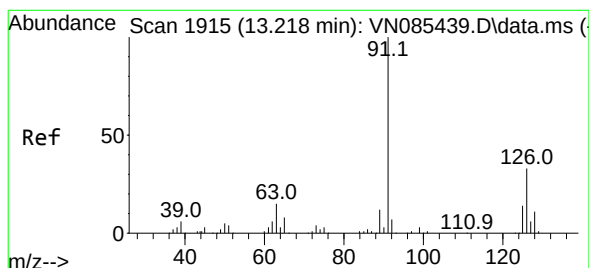
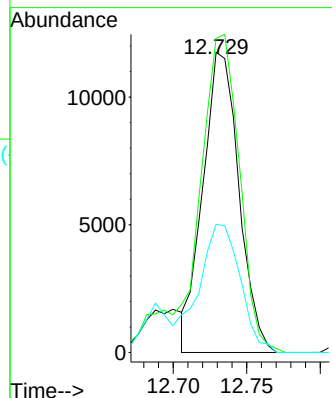
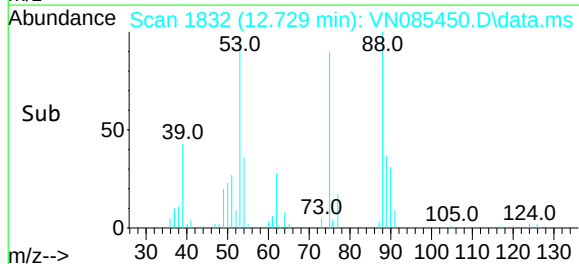
89 49.2 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#82

4-Chlorotoluene

Concen: 20.481 ug/l

RT: 13.217 min Scan# 1915

Delta R.T. -0.000 min

Lab File: VN085450.D

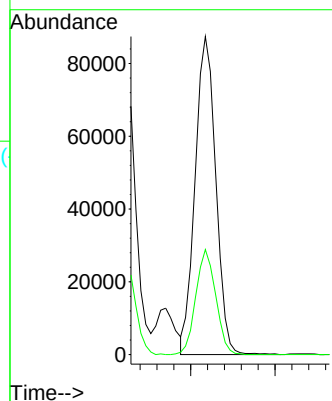
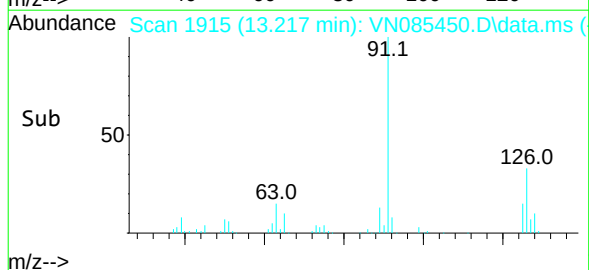
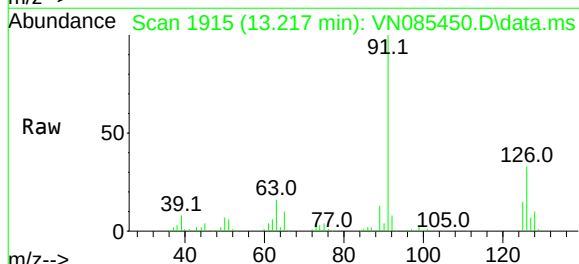
Acq: 15 Jan 2025 10:29

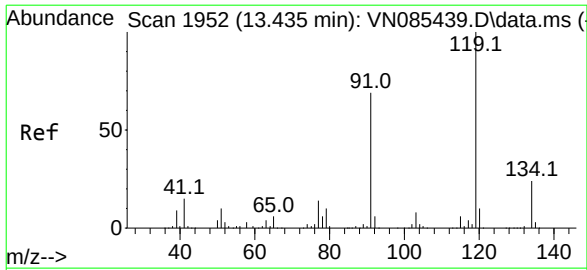
Tgt Ion: 91 Resp: 148888

Ion Ratio Lower Upper

91 100

126 31.8 15.9 47.7





#83

tert-Butylbenzene

Concen: 20.748 ug/l

RT: 13.435 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion:119 Resp: 137144

Ion Ratio Lower Upper

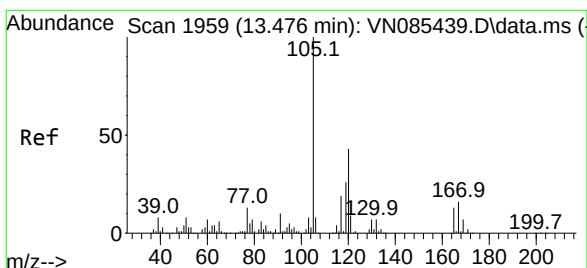
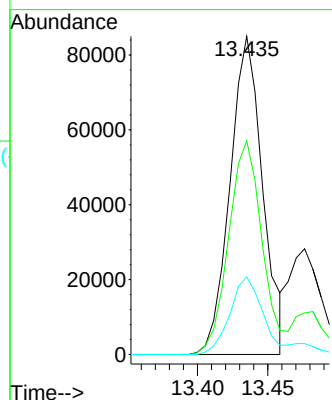
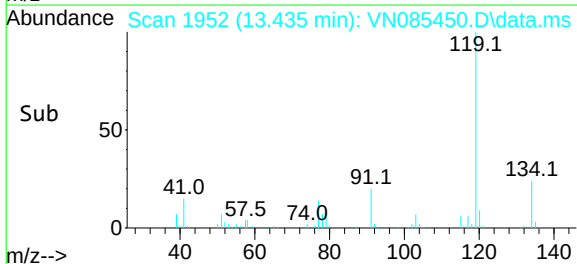
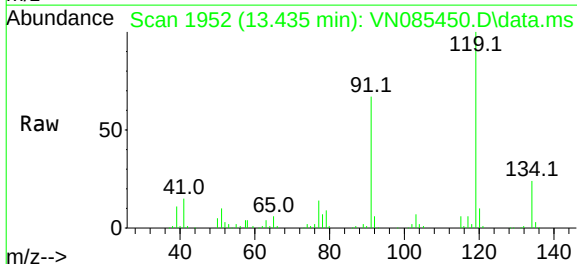
119 100

91 69.5 35.1 105.3

134 24.7 12.0 36.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#84

1,2,4-Trimethylbenzene

Concen: 21.493 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN085450.D

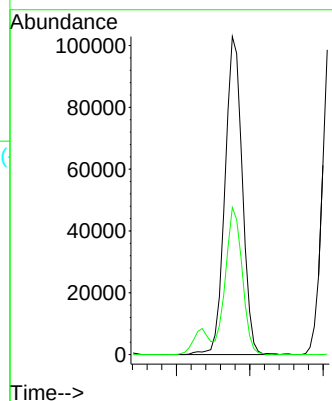
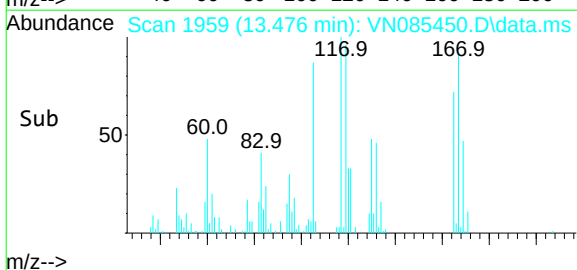
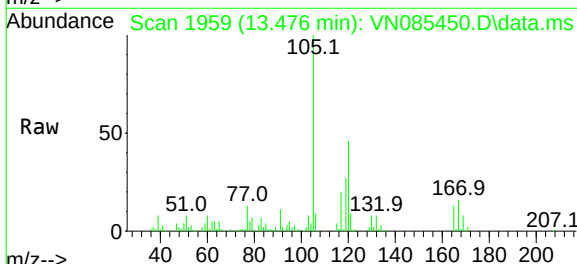
Acq: 15 Jan 2025 10:29

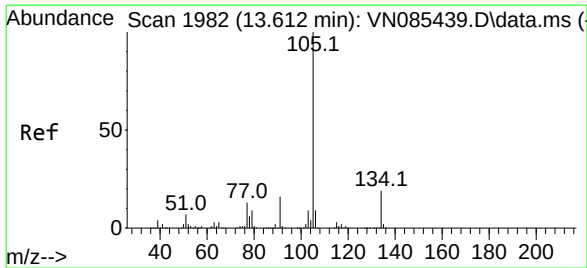
Tgt Ion:105 Resp: 168611

Ion Ratio Lower Upper

105 100

120 45.1 21.6 65.0





#85

sec-Butylbenzene

Concen: 21.140 ug/l

RT: 13.611 min Scan# 19

Delta R.T. -0.001 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion:105 Resp: 193667

Ion Ratio Lower Upper

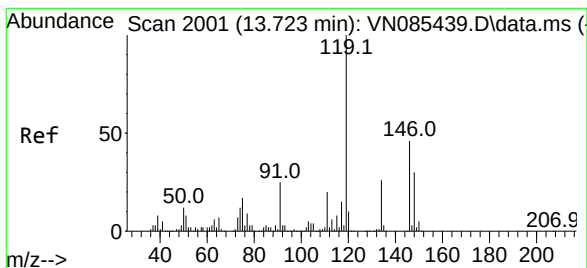
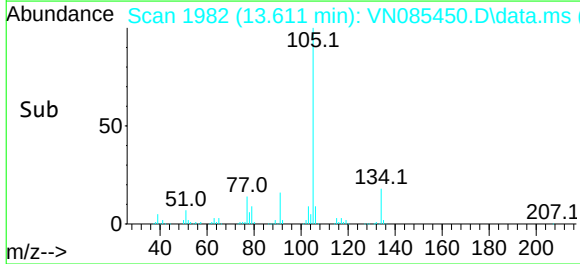
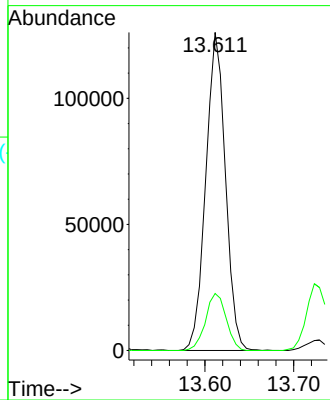
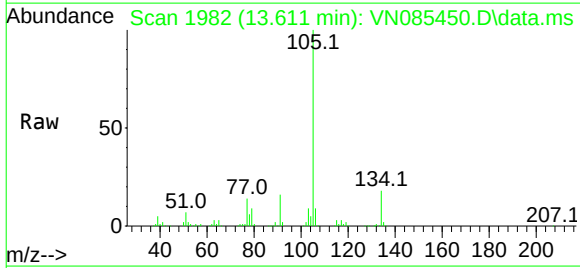
105 100

134 18.8 9.7 28.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025



#86

p-Isopropyltoluene

Concen: 20.730 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

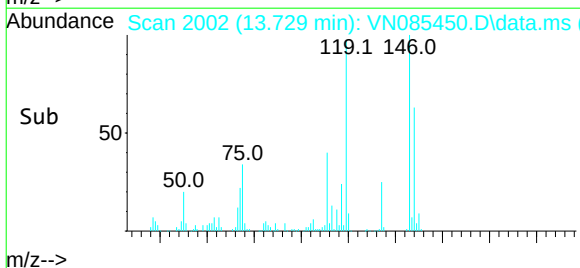
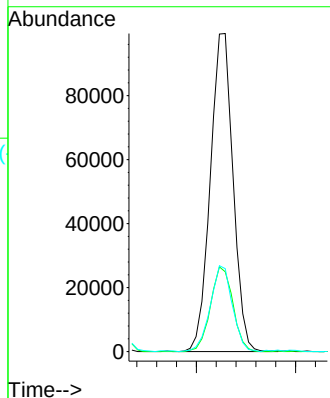
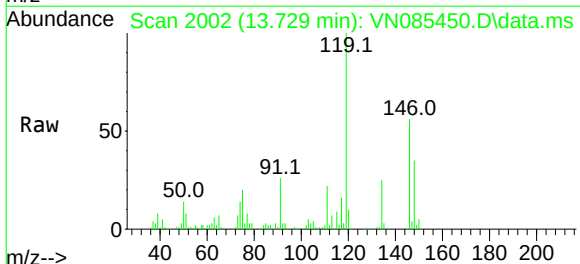
Tgt Ion:119 Resp: 158593

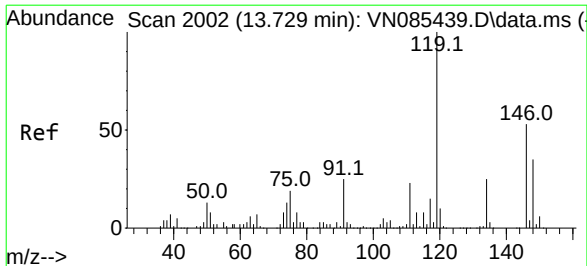
Ion Ratio Lower Upper

119 100

134 26.1 12.7 38.0

91 26.2 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 19.629 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion:146 Resp: 89998

Ion Ratio Lower Upper

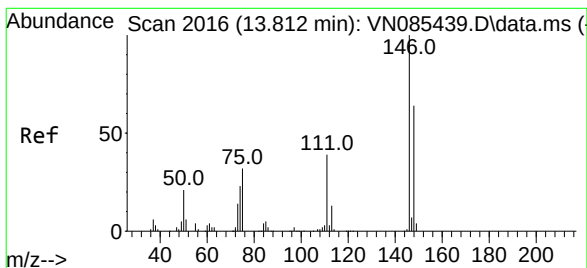
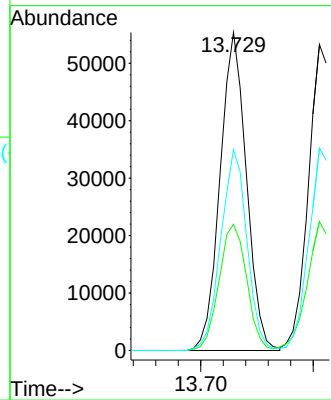
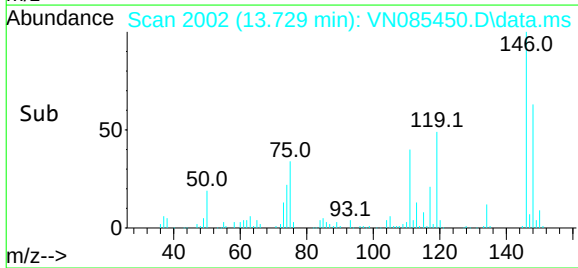
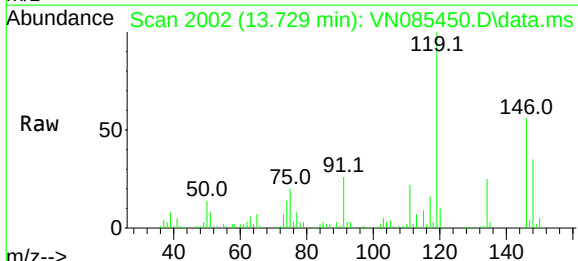
146 100

111 41.6 21.4 64.3

148 62.7 32.3 96.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#88

1,4-Dichlorobenzene

Concen: 18.721 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. -0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

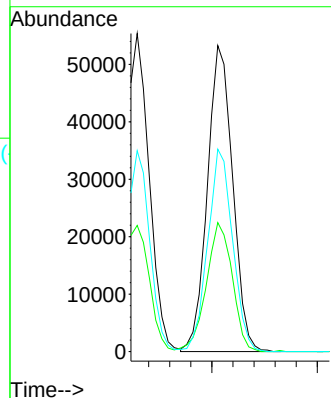
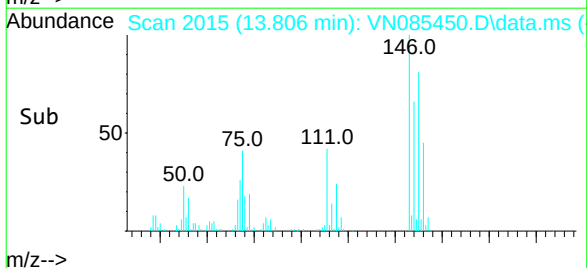
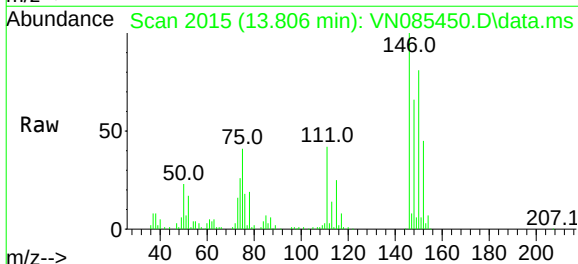
Tgt Ion:146 Resp: 88968

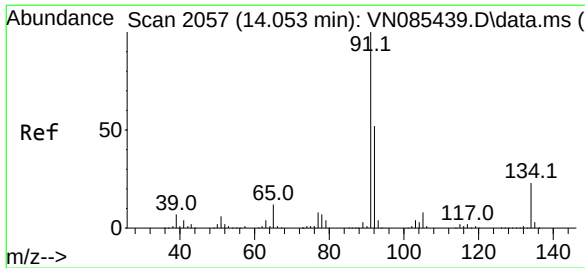
Ion Ratio Lower Upper

146 100

111 43.2 21.3 63.7

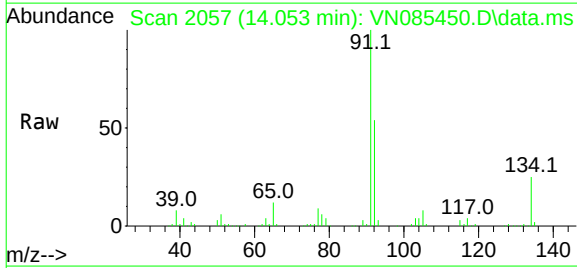
148 65.2 32.4 97.0





#89
n-Butylbenzene
Concen: 20.147 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

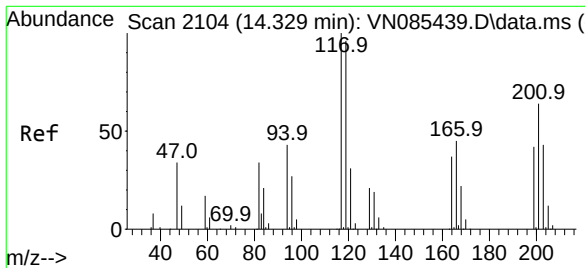
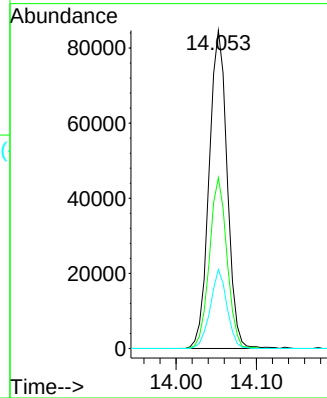
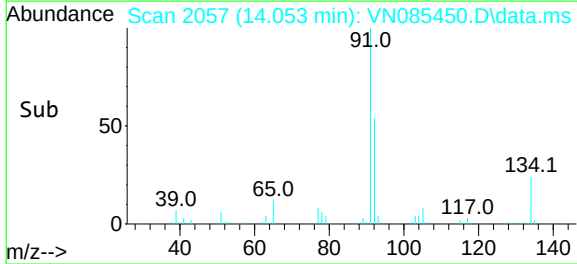
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01



Tgt Ion: 91 Resp: 132410
Ion Ratio Lower Upper
91 100
92 52.0 25.8 77.3
134 22.9 11.7 35.1

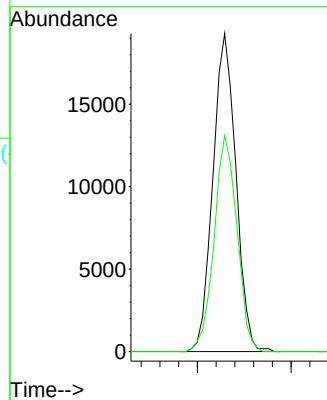
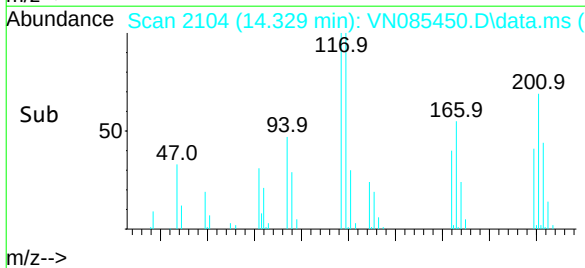
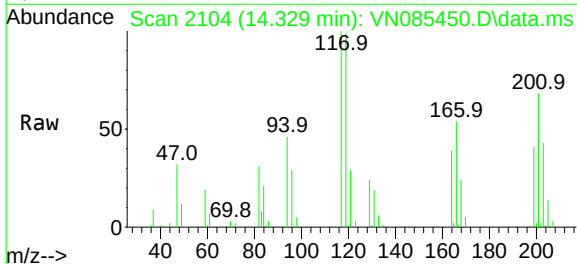
Manual Integrations
APPROVED

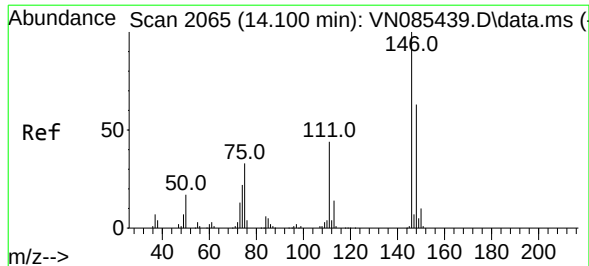
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#90
Hexachloroethane
Concen: 18.850 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

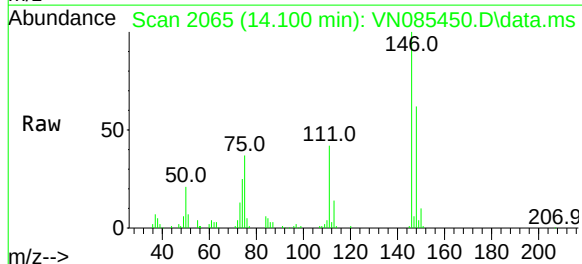
Tgt Ion:117 Resp: 32875
Ion Ratio Lower Upper
117 100
201 67.6 33.7 101.0





#91
1,2-Dichlorobenzene
Concen: 18.933 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

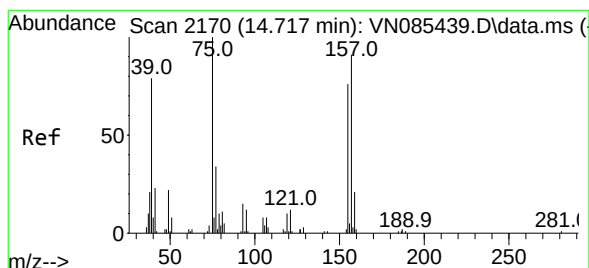
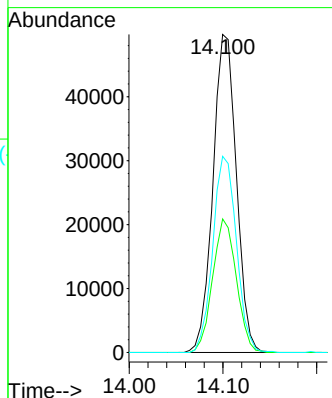
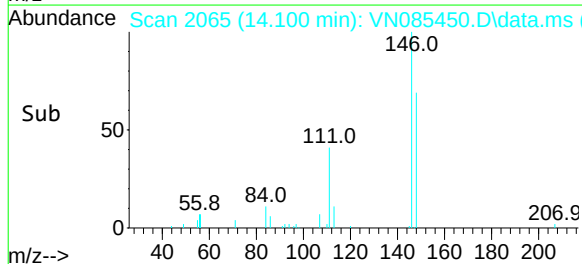
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01



Tgt Ion: 146 Resp: 86586
Ion Ratio Lower Upper
146 100
111 42.4 21.7 65.1
148 62.3 31.4 94.2

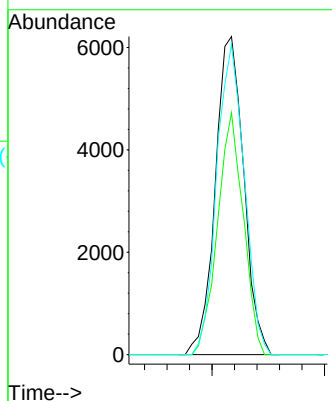
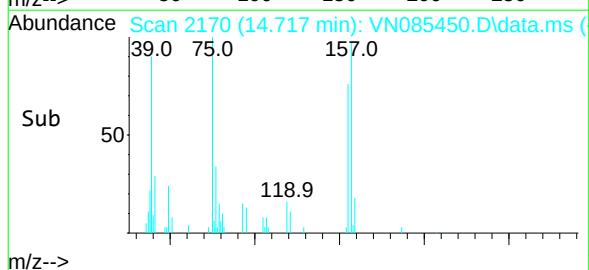
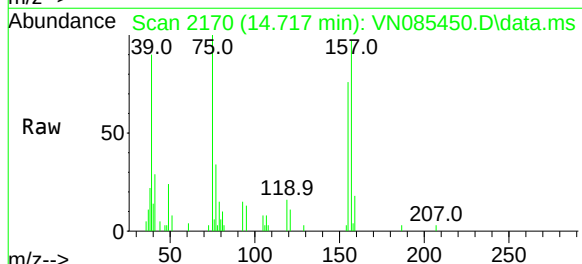
Manual Integrations
APPROVED

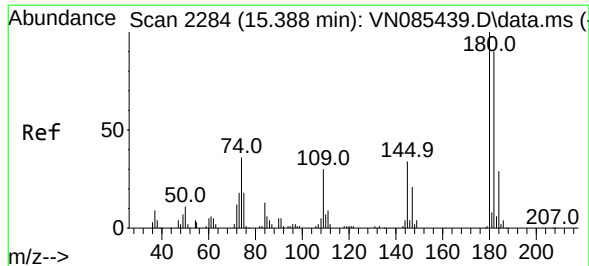
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 17.740 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 75 Resp: 10904
Ion Ratio Lower Upper
75 100
155 69.0 36.4 109.2
157 94.7 45.4 136.1





#93

1,2,4-Trichlorobenzene

Concen: 18.095 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion:180 Resp: 38461

Ion Ratio Lower Upper

180 100

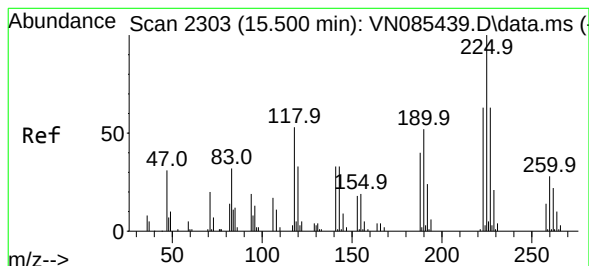
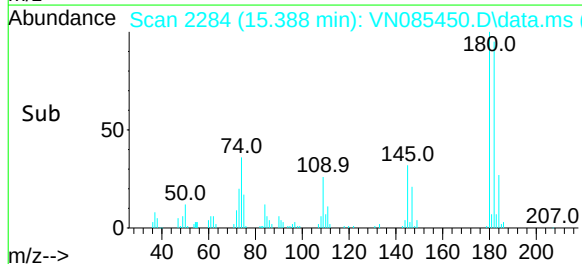
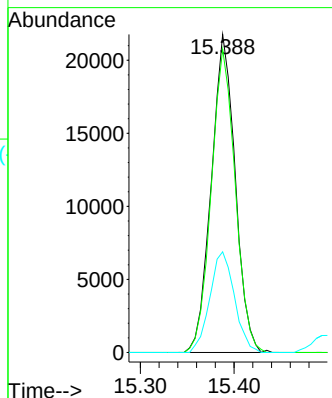
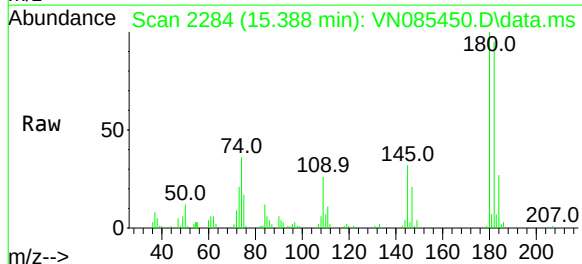
182 95.9 46.8 140.3

145 32.7 16.0 48.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025



#94

Hexachlorobutadiene

Concen: 18.761 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

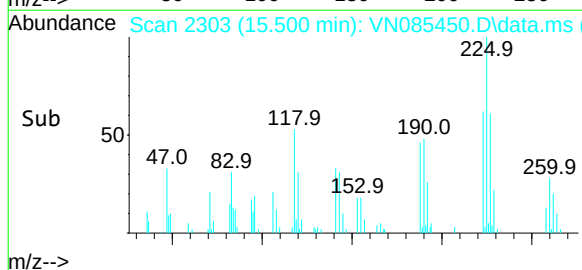
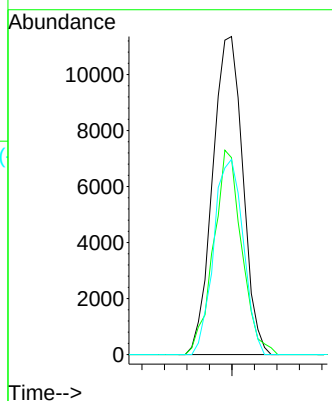
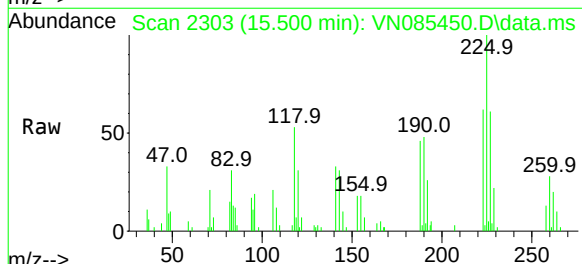
Tgt Ion:225 Resp: 21171

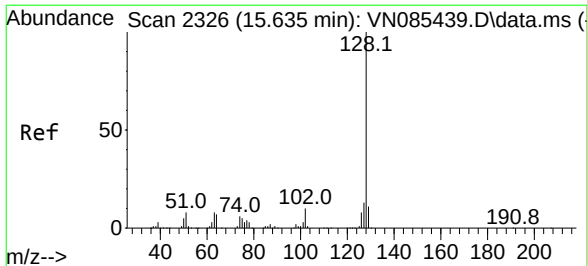
Ion Ratio Lower Upper

225 100

223 60.1 30.7 92.1

227 60.0 30.9 92.5





#95

Naphthalene

Concen: 16.518 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

Tgt Ion:128 Resp: 104770

Ion Ratio Lower Upper

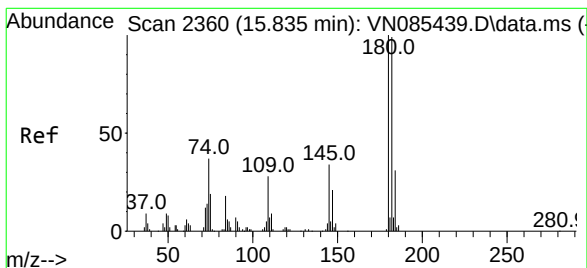
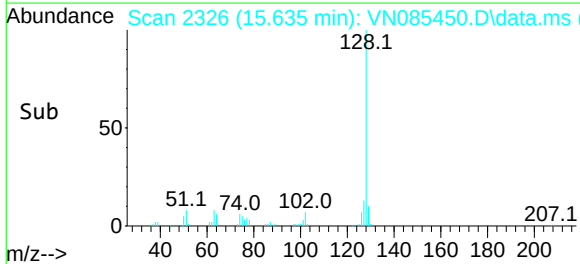
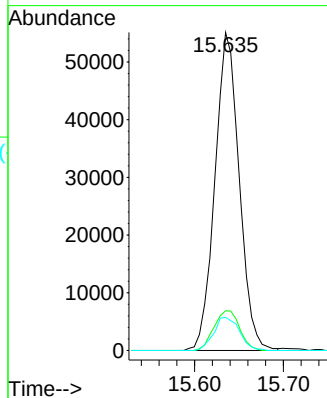
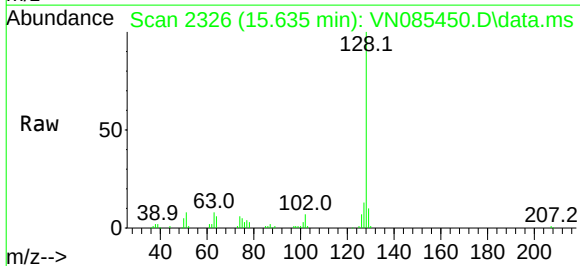
128 100

127 13.2 10.6 16.0

129 11.0 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#96

1,2,3-Trichlorobenzene

Concen: 17.704 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

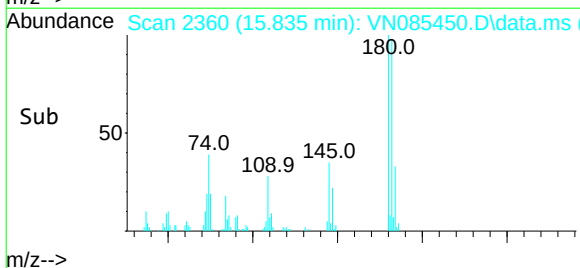
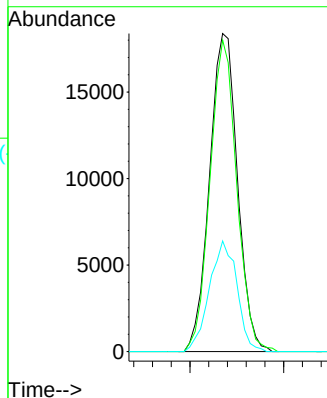
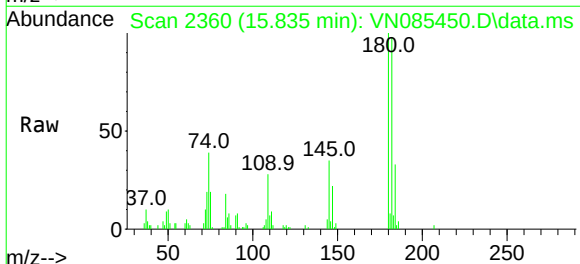
Tgt Ion:180 Resp: 38077

Ion Ratio Lower Upper

180 100

182 93.7 47.4 142.2

145 34.4 16.9 50.7



Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:		
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:		
Client Sample ID:	VN0115WBSD01			SDG No.:	Q1062	
Lab Sample ID:	VN0115WBSD01			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085451.D	1		01/15/25 11:02	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	19.5		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	19.1		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	19.3		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	18.5		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.7		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.6		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.3		0.26	0.75	1.00	ug/L
67-64-1	Acetone	94.9		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	18.1		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.1		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	20.1		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.9		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.0		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	97.6		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.9		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.7		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	20.1		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.9		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	20.0		0.19	0.50	1.00	ug/L
71-43-2	Benzene	20.1		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.7		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	20.1		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.2		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	20.9		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.75	2.50	5.00	ug/L
108-88-3	Toluene	21.5		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	20.3		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.0		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.9		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	100		1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VN0115WBSD01	SDG No.:	Q1062
Lab Sample ID:	VN0115WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085451.D	1		01/15/25 11:02	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	20.2		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.7		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.5		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	20.4		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	42.5		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	20.9		0.14	0.50	1.00	ug/L
100-42-5	Styrene	20.8		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	20.6		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	20.6		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.0		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.1		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.1		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.0		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	48.9		81 - 118		98%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	50.1		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	189000	8.218				
540-36-3	1,4-Difluorobenzene	323000	9.1				
3114-55-4	Chlorobenzene-d5	286000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	137000	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\VN011525\
 Data File : VN085451.D
 Acq On : 15 Jan 2025 11:02
 Operator : JC\MD
 Sample : VN0115WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBSD01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:54:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	188898	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	323122	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	286298	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	136502	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.576	65	149231	48.941	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.880%
35) Dibromofluoromethane	8.159	113	110423	49.259	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.520%
50) Toluene-d8	10.565	98	399040	50.102	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.200%
62) 4-Bromofluorobenzene	12.847	95	137216	50.364	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	100.720%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	50526	19.755	ug/l	95
3) Chloromethane	2.359	50	53907	19.467	ug/l	98
4) Vinyl Chloride	2.512	62	53251	19.131	ug/l	98
5) Bromomethane	2.965	94	32421	19.283	ug/l	95
6) Chloroethane	3.124	64	32723	18.543	ug/l	98
7) Trichlorofluoromethane	3.506	101	79391	19.658	ug/l	98
8) Diethyl Ether	3.965	74	26011	18.643	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	44531	19.576	ug/l	99
10) Methyl Iodide	4.594	142	52886	20.302	ug/l	95
11) Tert butyl alcohol	5.500	59	33491	95.920	ug/l	100
12) 1,1-Dichloroethene	4.341	96	39080	19.277	ug/l	98
13) Acrolein	4.171	56	55291	116.005	ug/l	99
14) Allyl chloride	5.030	41	63692	19.361	ug/l	99
15) Acrylonitrile	5.712	53	108425	97.766	ug/l	99
16) Acetone	4.418	43	93485	94.887	ug/l	98
17) Carbon Disulfide	4.718	76	112944	18.094	ug/l	99
18) Methyl Acetate	5.012	43	58686	19.589	ug/l	100
19) Methyl tert-butyl Ether	5.788	73	138775	21.081	ug/l	98
20) Methylene Chloride	5.271	84	49058	20.114	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	43073	19.880	ug/l	93
22) Diisopropyl ether	6.665	45	156331	21.410	ug/l	97
23) Vinyl Acetate	6.600	43	528099m	103.348	ug/l	
24) 1,1-Dichloroethane	6.565	63	88831	19.952	ug/l	99
25) 2-Butanone	7.477	43	141498	97.595	ug/l	93
26) 2,2-Dichloropropane	7.488	77	78212	21.728	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	50200	19.672	ug/l	95
28) Bromochloromethane	7.806	49	38238	18.460	ug/l	100
29) Tetrahydrofuran	7.835	42	93959	102.217	ug/l	99
30) Chloroform	7.965	83	92715	20.149	ug/l	98
31) Cyclohexane	8.247	56	72255	18.672	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	80190	19.867	ug/l	98
36) 1,1-Dichloropropene	8.371	75	61822	19.650	ug/l	98
37) Ethyl Acetate	7.553	43	59684	18.795	ug/l	97
38) Carbon Tetrachloride	8.359	117	71714	19.911	ug/l	97
39) Methylcyclohexane	9.600	83	59161	20.011	ug/l	93
40) Benzene	8.600	78	189640	20.061	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085451.D
 Acq On : 15 Jan 2025 11:02
 Operator : JC\MD
 Sample : VN0115WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBSD01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:54:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	31866	19.288	ug/l	99
42) 1,2-Dichloroethane	8.665	62	73669	20.692	ug/l	98
43) Isopropyl Acetate	8.682	43	100283	19.708	ug/l	99
44) Trichloroethene	9.347	130	44329	20.145	ug/l	97
45) 1,2-Dichloropropane	9.618	63	48696	20.167	ug/l	99
46) Dibromomethane	9.706	93	34080	19.561	ug/l	97
47) Bromodichloromethane	9.882	83	74218	20.909	ug/l	99
48) Methyl methacrylate	9.676	41	46655	20.374	ug/l	99
49) 1,4-Dioxane	9.688	88	14983	388.550	ug/l #	76
51) 4-Methyl-2-Pentanone	10.441	43	300611	101.808	ug/l	100
52) Toluene	10.623	92	117631	21.476	ug/l	97
53) t-1,3-Dichloropropene	10.829	75	68014	20.276	ug/l	96
54) cis-1,3-Dichloropropene	10.306	75	75146	20.973	ug/l	100
55) 1,1,2-Trichloroethane	11.012	97	45220	20.861	ug/l	98
56) Ethyl methacrylate	10.870	69	63954	18.769	ug/l	98
57) 1,3-Dichloropropane	11.159	76	76979	20.424	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	148262	107.782	ug/l	97
59) 2-Hexanone	11.188	43	211689	101.890	ug/l	99
60) Dibromochloromethane	11.353	129	52957	20.236	ug/l	100
61) 1,2-Dibromoethane	11.465	107	42146	19.533	ug/l	100
64) Tetrachloroethene	11.100	164	40480	20.740	ug/l	97
65) Chlorobenzene	11.888	112	122590	19.546	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	44850	19.484	ug/l	100
67) Ethyl Benzene	11.959	91	208196	20.381	ug/l	100
68) m/p-Xylenes	12.070	106	160511	42.515	ug/l	98
69) o-Xylene	12.394	106	75509	20.928	ug/l	99
70) Styrene	12.406	104	124126	20.788	ug/l	100
71) Bromoform	12.576	173	34000	20.643	ug/l #	99
73) Isopropylbenzene	12.694	105	189617	20.582	ug/l	99
74) N-amyl acetate	12.488	43	81241	19.619	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	61871	19.012	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	56609m	20.404	ug/l	
77) Bromobenzene	12.976	156	48489	20.145	ug/l	98
78) n-propylbenzene	13.035	91	228827	20.981	ug/l	100
79) 2-Chlorotoluene	13.123	91	143092	20.272	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	163195	21.445	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	20113m	19.614	ug/l	
82) 4-Chlorotoluene	13.217	91	144513	20.562	ug/l	99
83) tert-Butylbenzene	13.435	119	131013	20.501	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	164079	21.634	ug/l	100
85) sec-Butylbenzene	13.611	105	189519	21.398	ug/l	99
86) p-Isopropyltoluene	13.723	119	153867	20.798	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	89126	20.107	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	87559	19.057	ug/l	99
89) n-Butylbenzene	14.053	91	128246	20.183	ug/l	100
90) Hexachloroethane	14.329	117	31733	18.820	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	83864	18.967	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10944	18.416	ug/l	99
93) 1,2,4-Trichlorobenzene	15.388	180	39555	19.248	ug/l	98
94) Hexachlorobutadiene	15.500	225	20590	18.872	ug/l	98
95) Naphthalene	15.635	128	106293	17.334	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	39966	19.221	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085451.D
Acq On : 15 Jan 2025 11:02
Operator : JC\MD
Sample : VN0115WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:54:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

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

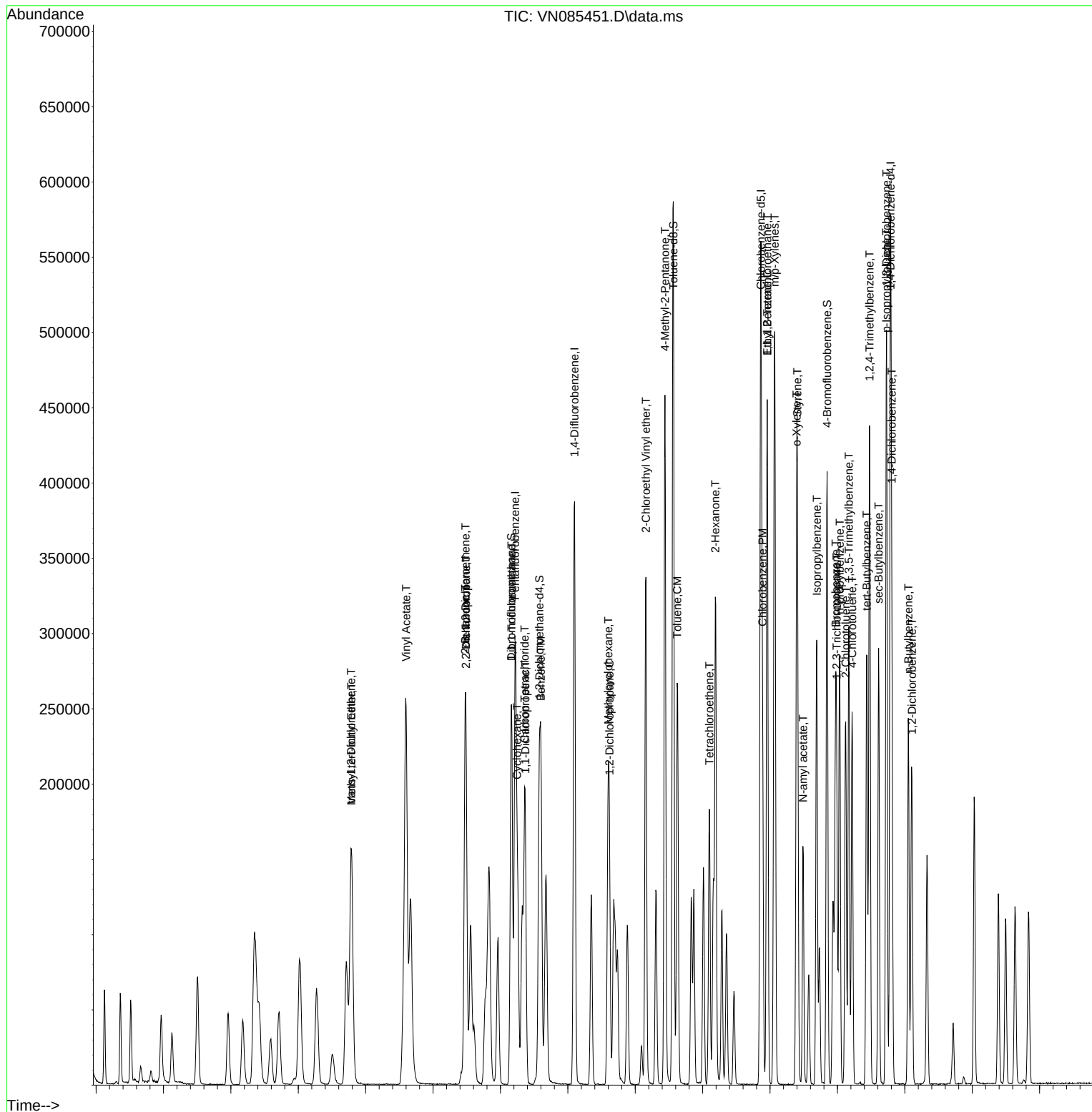
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\  
Data File : VN085451.D  
Acq On    : 15 Jan 2025  11:02  
Operator  : JC\MD  
Sample    : VN0115WBSD01  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 6   Sample Multiplier: 1
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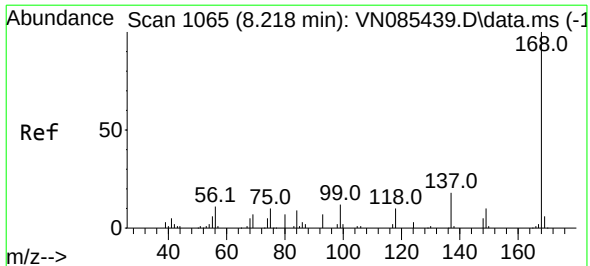
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

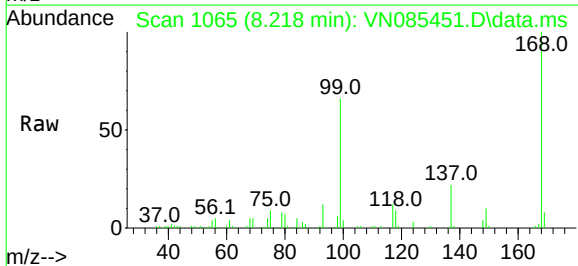
Quant Time: Jan 16 00:54:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

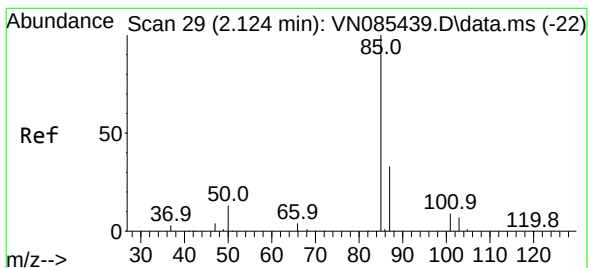
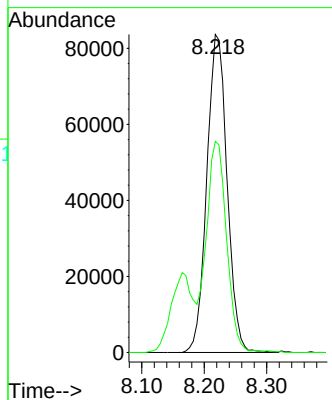
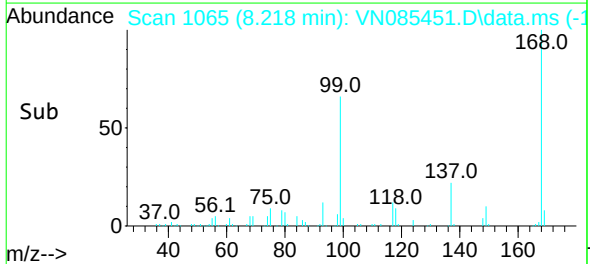
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01



Tgt Ion: 168 Resp: 188898
Ion Ratio Lower Upper
168 100
99 66.1 53.6 80.4

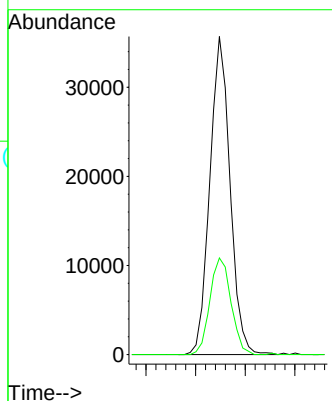
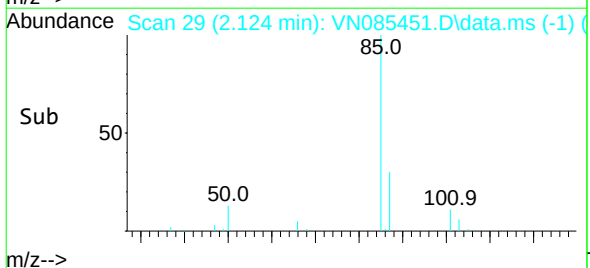
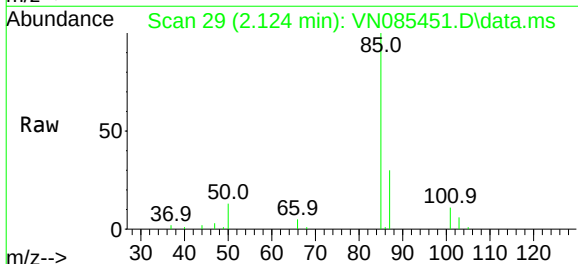
Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

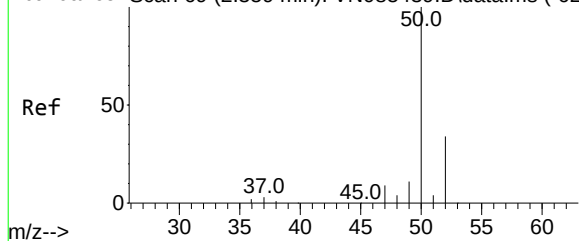


#2
Dichlorodifluoromethane
Concen: 19.755 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 85 Resp: 50526
Ion Ratio Lower Upper
85 100
87 30.4 16.7 50.1



Abundance Scan 69 (2.359 min): VN085439.D\data.ms (-62)



#3

Chloromethane

Concen: 19.467 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

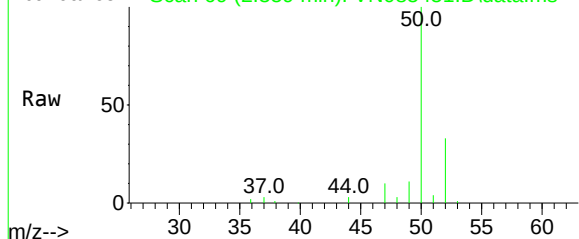
Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Abundance Scan 69 (2.359 min): VN085451.D\data.ms



Tgt Ion: 50 Resp: 53907

Ion Ratio Lower Upper

50 100

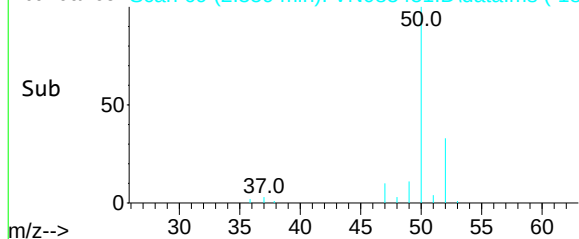
52 32.6 27.0 40.6

Manual Integrations

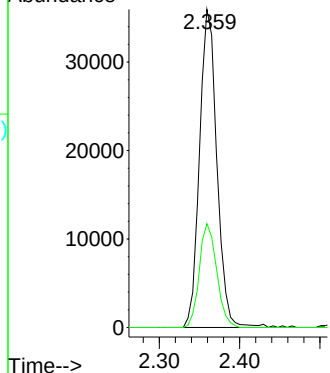
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

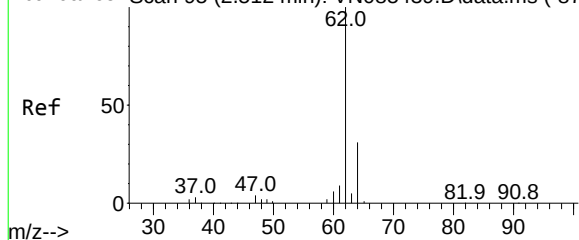
Abundance Scan 69 (2.359 min): VN085451.D\data.ms (-18)



Abundance



Abundance Scan 95 (2.512 min): VN085439.D\data.ms (-87)



#4

Vinyl Chloride

Concen: 19.131 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

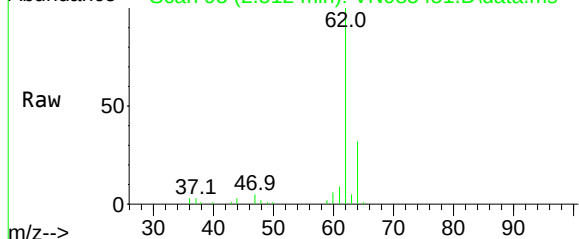
Tgt Ion: 62 Resp: 53251

Ion Ratio Lower Upper

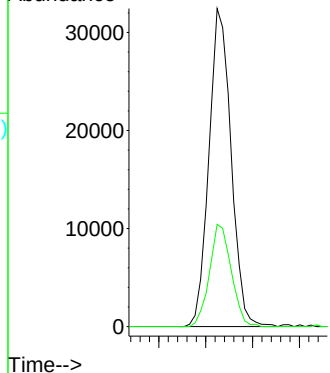
62 100

64 32.1 24.8 37.2

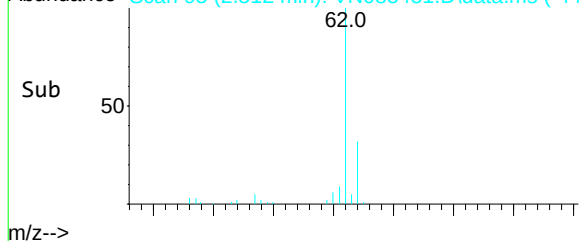
Abundance Scan 95 (2.512 min): VN085451.D\data.ms

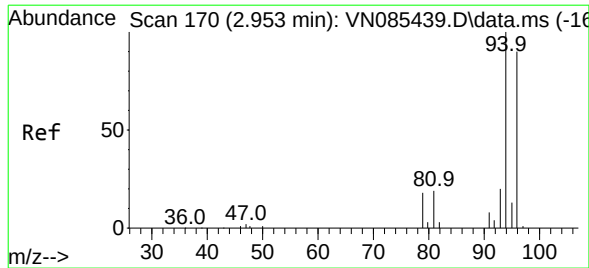


Abundance



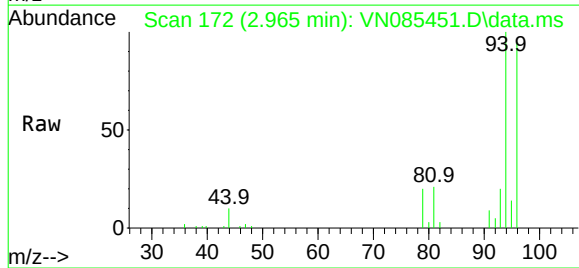
Abundance Scan 95 (2.512 min): VN085451.D\data.ms (-44)





#5
Bromomethane
Concen: 19.283 ug/l
RT: 2.965 min Scan# 170
Delta R.T. 0.012 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

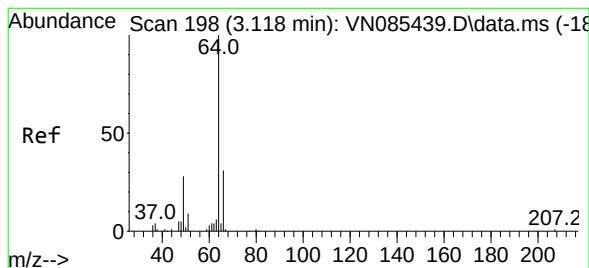
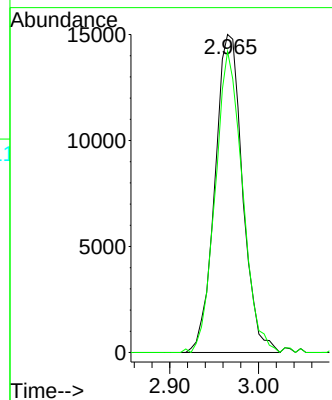
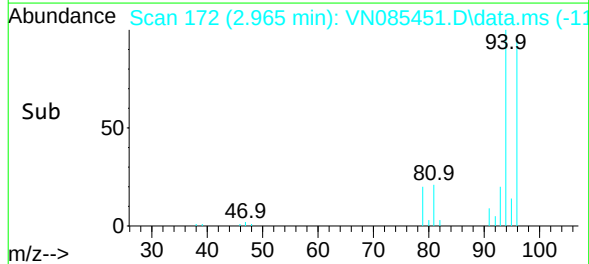
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01



Tgt Ion: 94 Resp: 32421
Ion Ratio Lower Upper
94 100
96 94.7 71.8 107.6

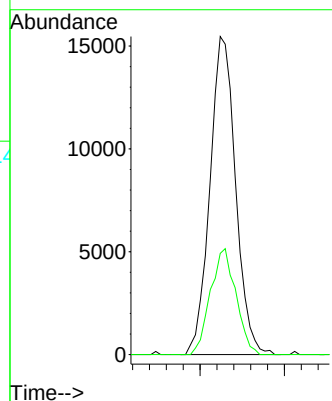
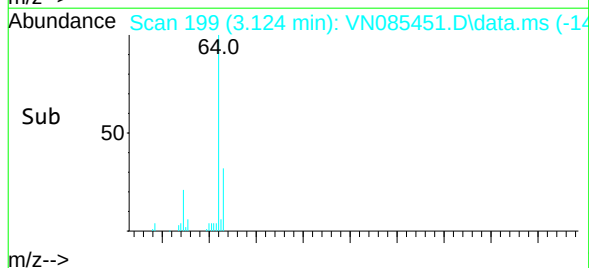
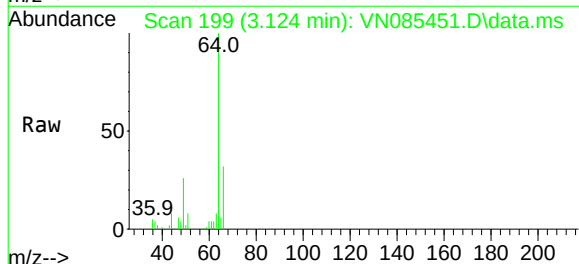
Manual Integrations
APPROVED

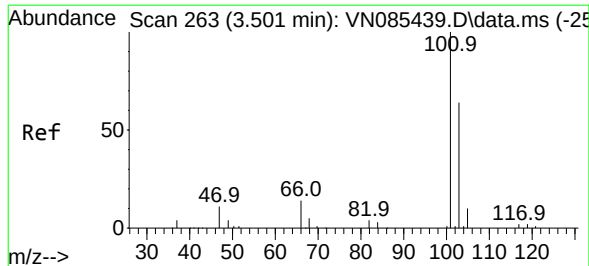
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#6
Chloroethane
Concen: 18.543 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

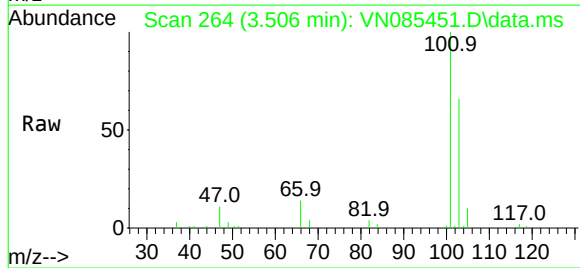
Tgt Ion: 64 Resp: 32723
Ion Ratio Lower Upper
64 100
66 31.8 24.6 36.8





#7
Trichlorofluoromethane
Concen: 19.658 ug/l
RT: 3.506 min Scan# 263
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

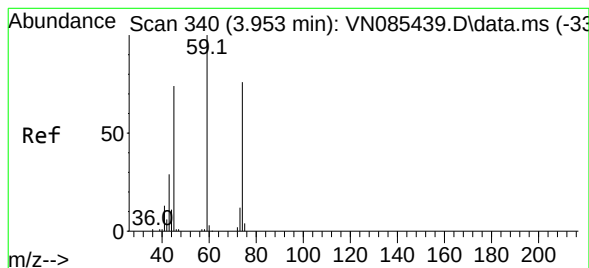
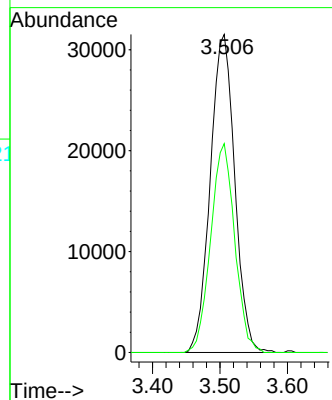
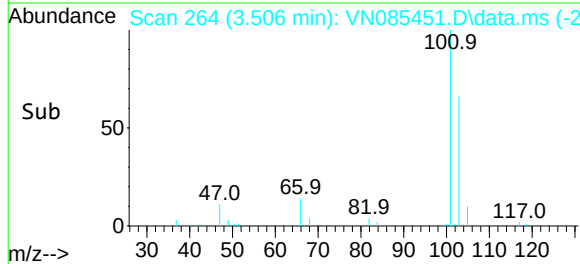
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MSVOA_N
ClientSampleId :
VN0115WBSD01



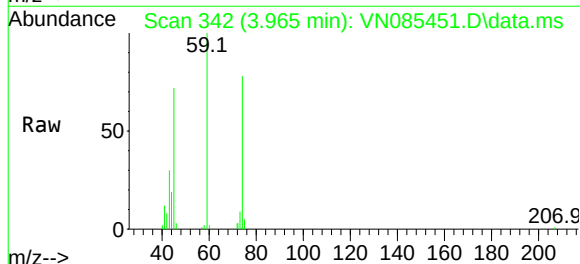
Tgt Ion: 101 Resp: 79391
Ion Ratio Lower Upper
101 100
103 65.7 51.4 77.2

Manual Integrations
APPROVED

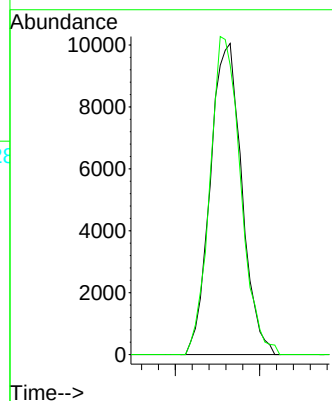
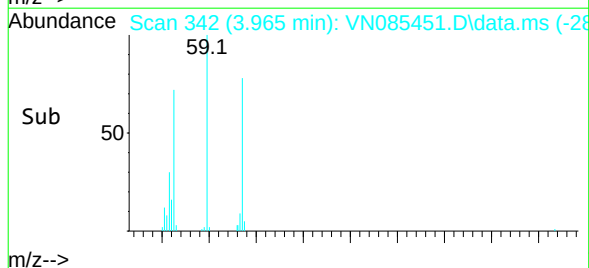
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

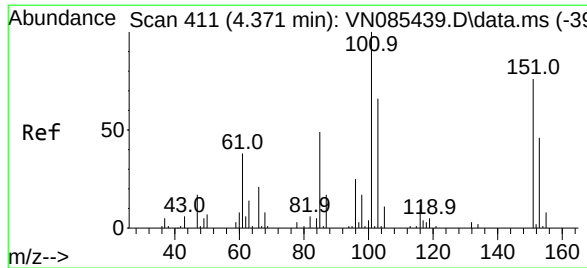


#8
Diethyl Ether
Concen: 18.643 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.012 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02



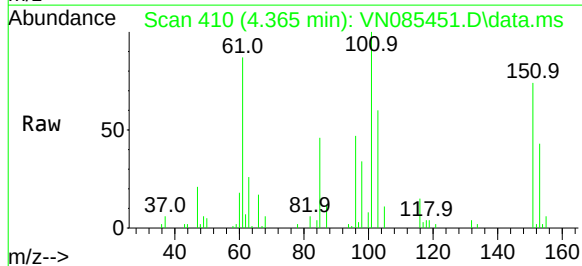
Tgt Ion: 74 Resp: 26011
Ion Ratio Lower Upper
74 100
45 100.1 49.7 149.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.576 ug/l
RT: 4.365 min Scan# 411
Delta R.T. -0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

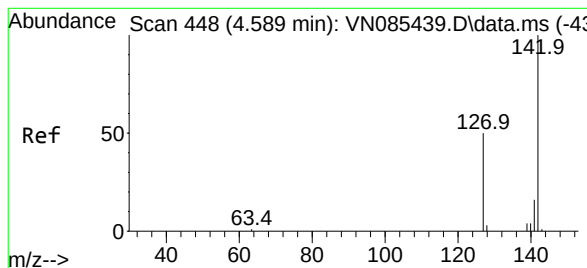
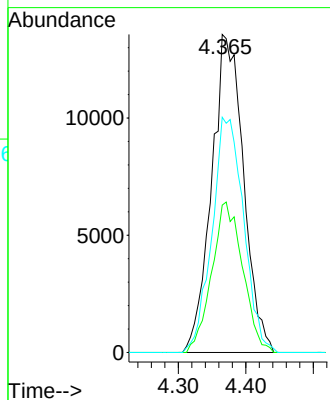
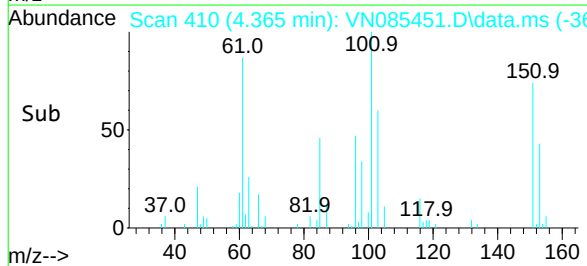
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01



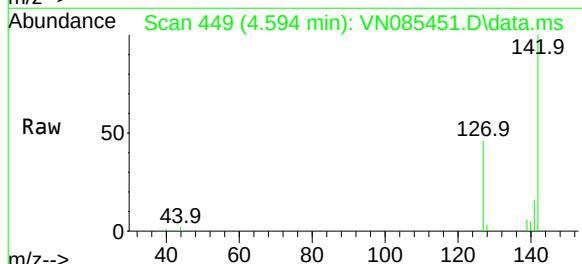
Tgt Ion:101 Resp: 44531
Ion Ratio Lower Upper
101 100
85 45.8 37.8 56.8
151 73.3 58.8 88.2

Manual Integrations
APPROVED

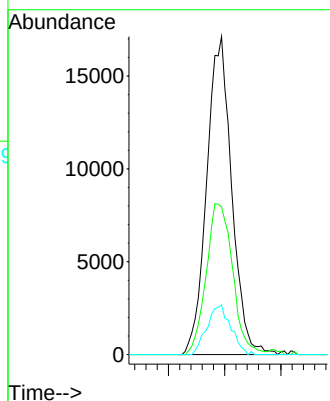
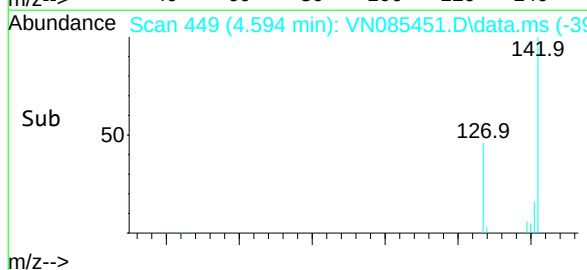
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

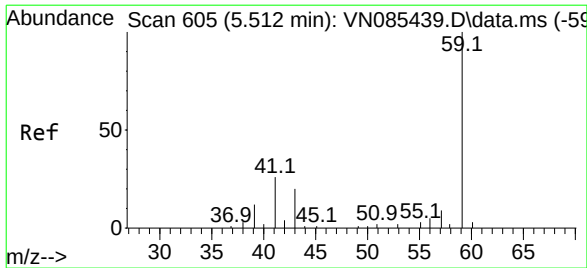


#10
Methyl Iodide
Concen: 20.302 ug/l
RT: 4.594 min Scan# 449
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02



Tgt Ion:142 Resp: 52886
Ion Ratio Lower Upper
142 100
127 46.4 40.3 60.5
141 15.6 12.8 19.2





#11

Tert butyl alcohol

Concen: 95.920 ug/l

RT: 5.500 min Scan# 605

Delta R.T. -0.012 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion: 59 Resp: 33491

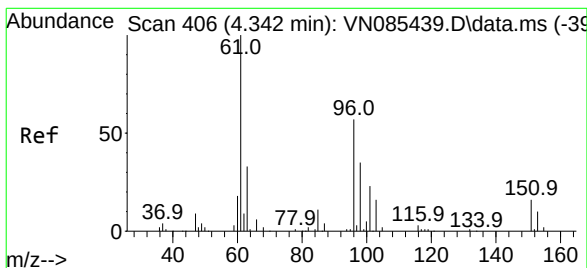
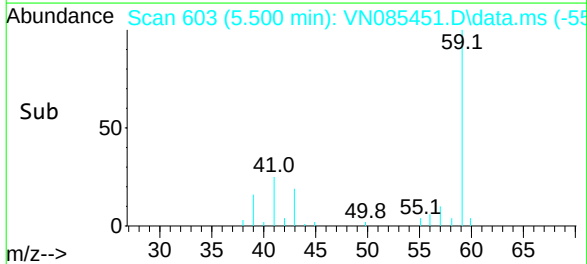
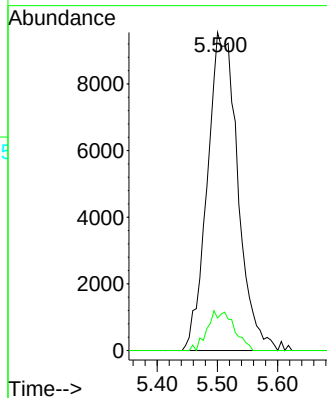
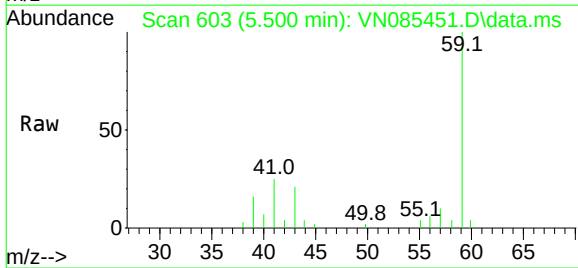
Ion Ratio Lower Upper

59 100

57 10.9 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#12

1,1-Dichloroethene

Concen: 19.277 ug/l

RT: 4.341 min Scan# 406

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

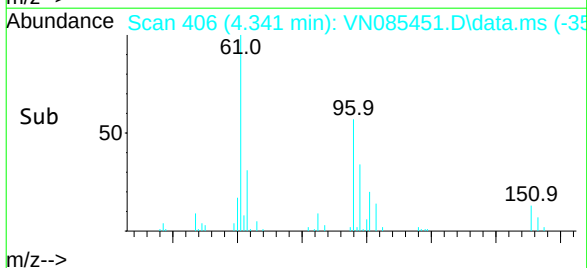
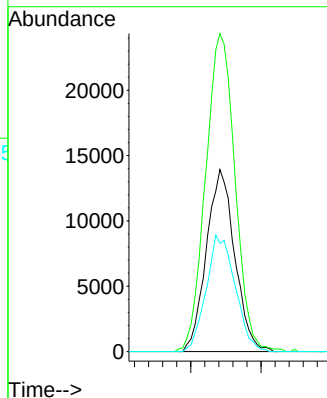
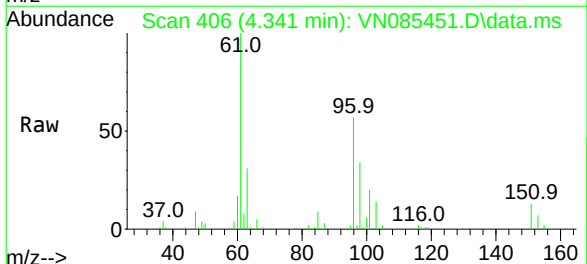
Tgt Ion: 96 Resp: 39080

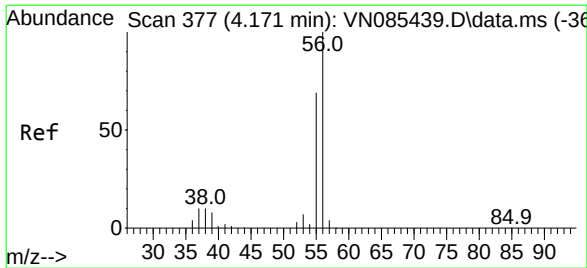
Ion Ratio Lower Upper

96 100

61 173.3 141.0 211.4

98 59.5 49.0 73.6





#13

Acrolein

Concen: 116.005 ug/l

RT: 4.171 min Scan# 377

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion: 56 Resp: 55291

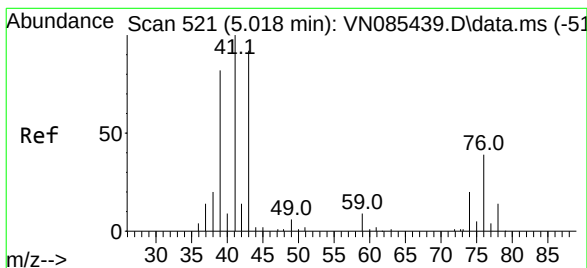
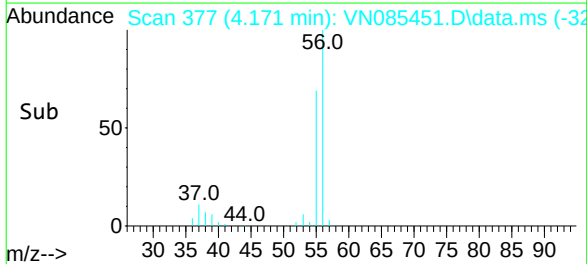
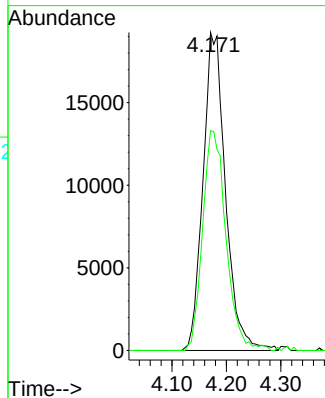
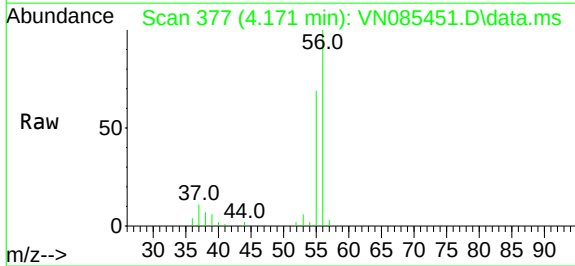
Ion Ratio Lower Upper

56 100

55 71.3 56.3 84.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#14

Allyl chloride

Concen: 19.361 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

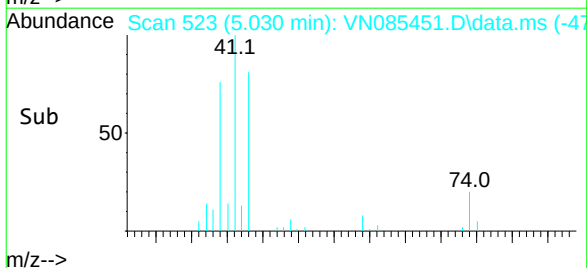
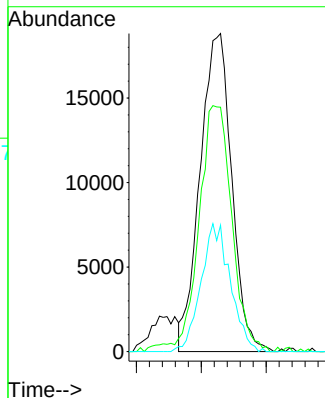
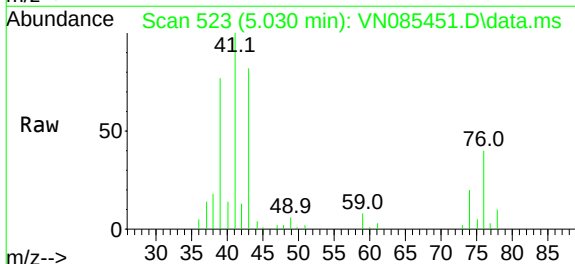
Tgt Ion: 41 Resp: 63692

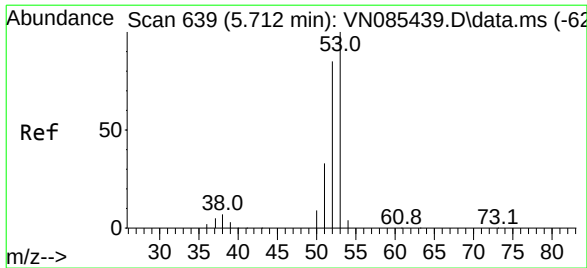
Ion Ratio Lower Upper

41 100

39 80.8 64.4 96.6

76 37.4 30.5 45.7





#15

Acrylonitrile

Concen: 97.766 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion: 53 Resp: 108425

Ion Ratio Lower Upper

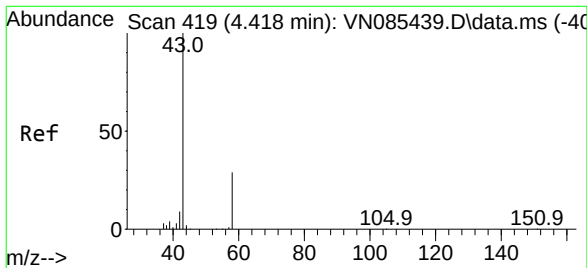
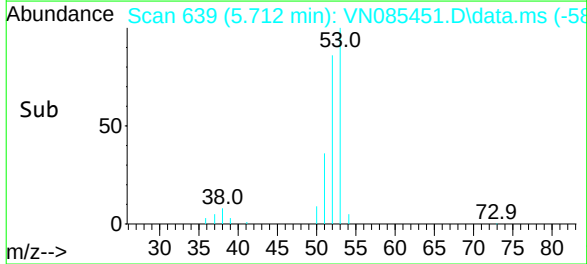
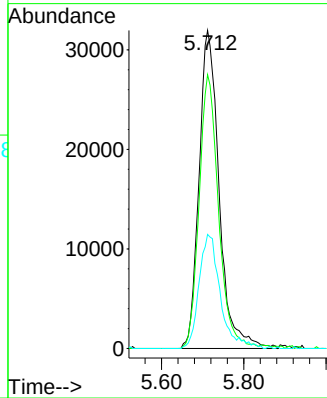
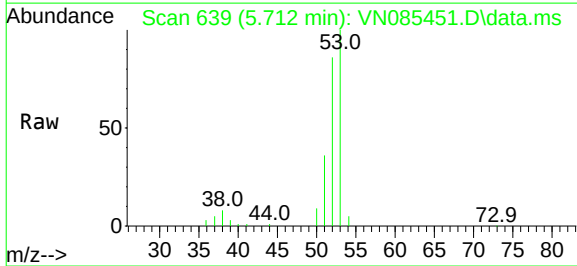
53 100

52 83.1 65.5 98.3

51 37.9 29.8 44.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#16

Acetone

Concen: 94.887 ug/l

RT: 4.418 min Scan# 419

Delta R.T. -0.000 min

Lab File: VN085451.D

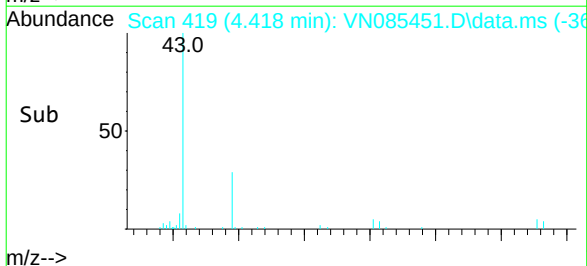
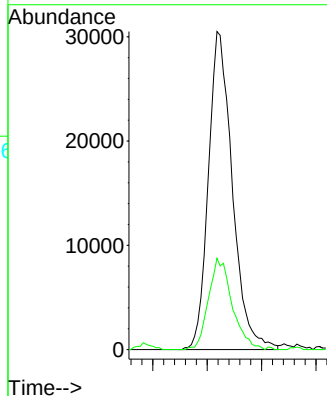
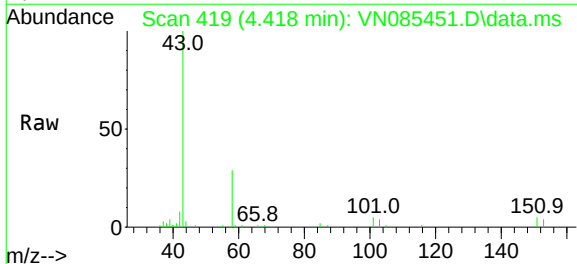
Acq: 15 Jan 2025 11:02

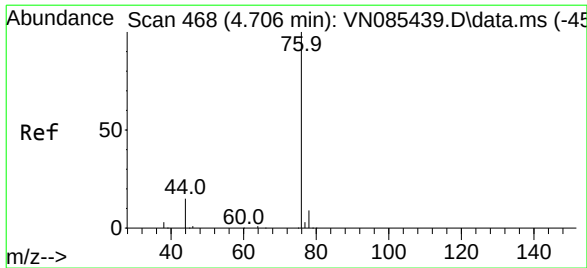
Tgt Ion: 43 Resp: 93485

Ion Ratio Lower Upper

43 100

58 28.7 23.8 35.6





#17

Carbon Disulfide

Concen: 18.094 ug/l

RT: 4.718 min Scan# 47

Delta R.T. 0.012 min

Lab File: VN085451.D

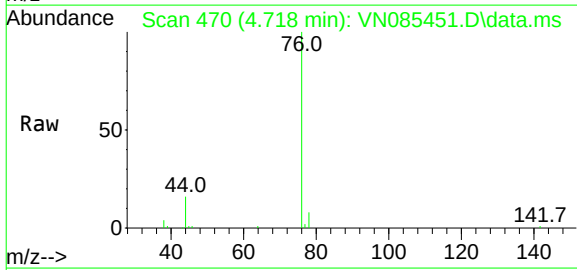
Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01



Tgt Ion: 76 Resp: 112944

Ion Ratio Lower Upper

76 100

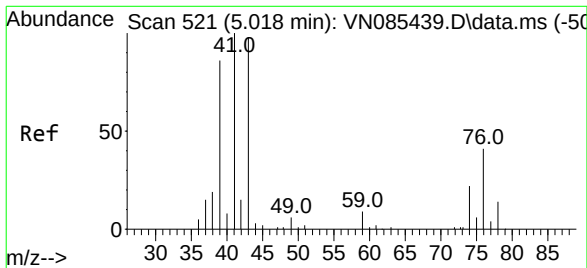
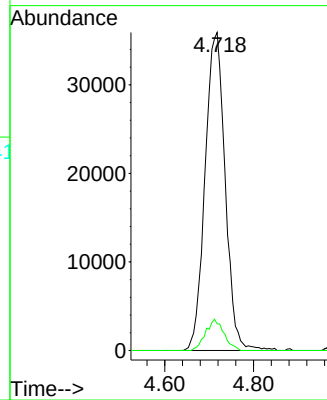
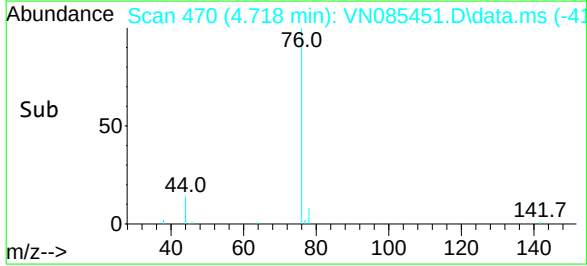
78 8.4 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#18

Methyl Acetate

Concen: 19.589 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.006 min

Lab File: VN085451.D

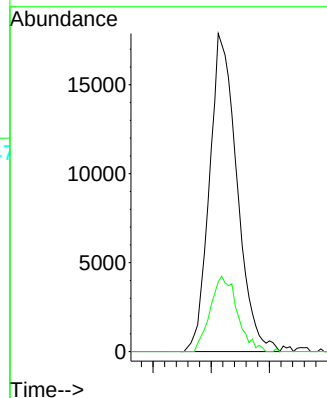
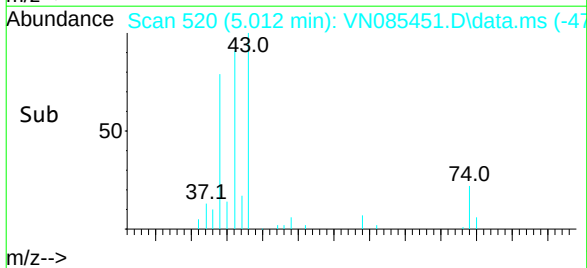
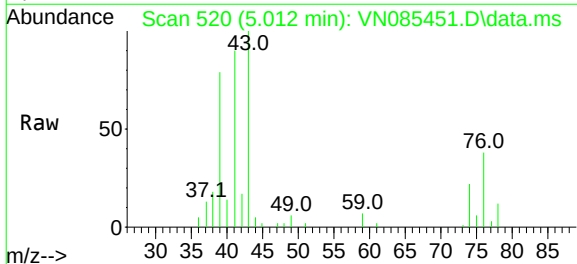
Acq: 15 Jan 2025 11:02

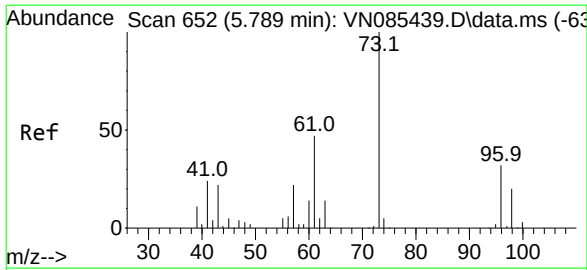
Tgt Ion: 43 Resp: 58686

Ion Ratio Lower Upper

43 100

74 23.2 18.6 28.0





#19

Methyl tert-butyl Ether

Concen: 21.081 ug/l

RT: 5.788 min Scan# 65

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion: 73 Resp: 138775

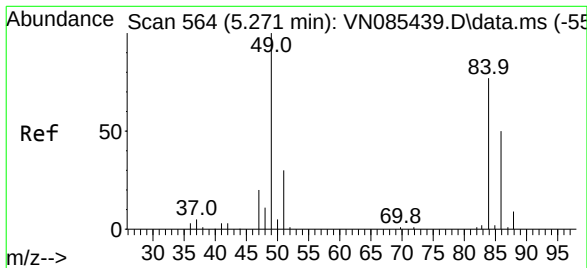
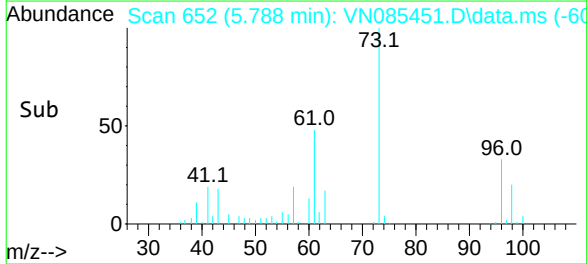
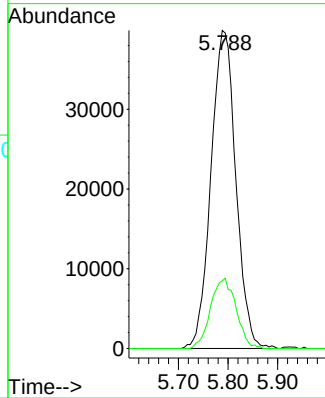
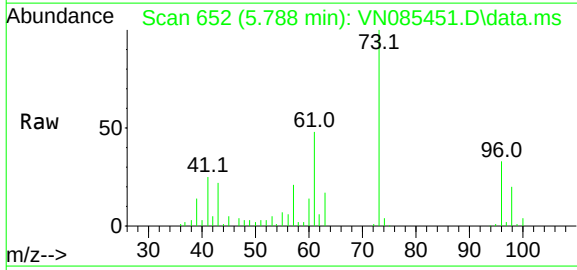
Ion Ratio Lower Upper

73 100

57 21.3 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#20

Methylene Chloride

Concen: 20.114 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Tgt Ion: 84 Resp: 49058

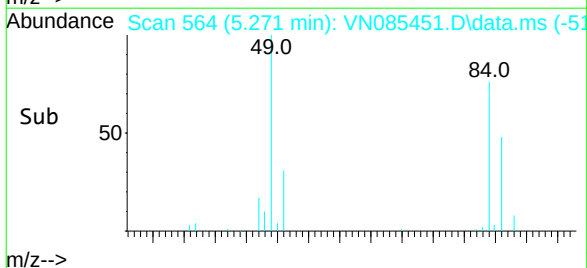
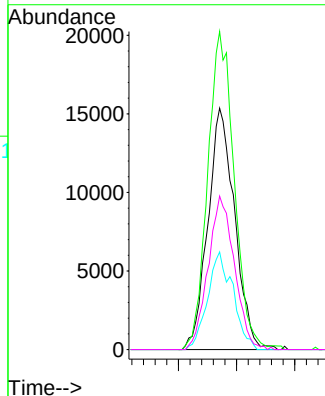
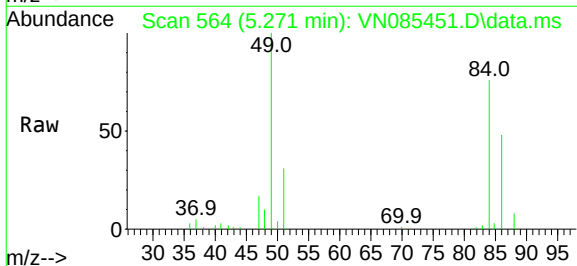
Ion Ratio Lower Upper

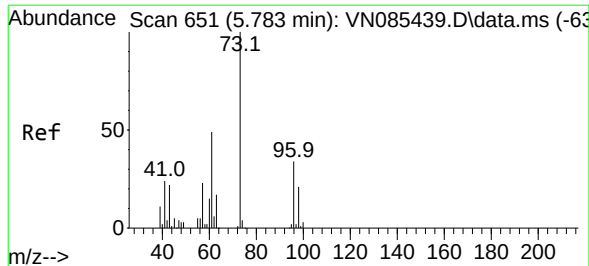
84 100

49 131.8 104.1 156.1

51 40.5 31.0 46.4

86 63.6 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 19.880 ug/l

RT: 5.783 min Scan# 651

Delta R.T. -0.000 min

Lab File: VN085451.D

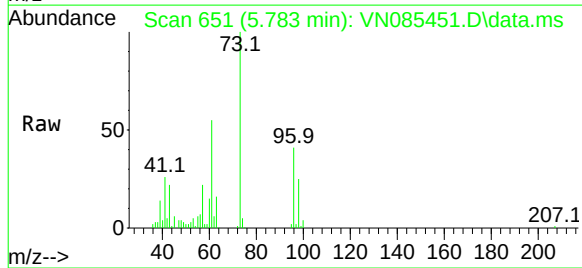
Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01



Tgt Ion: 96 Resp: 43073

Ion Ratio Lower Upper

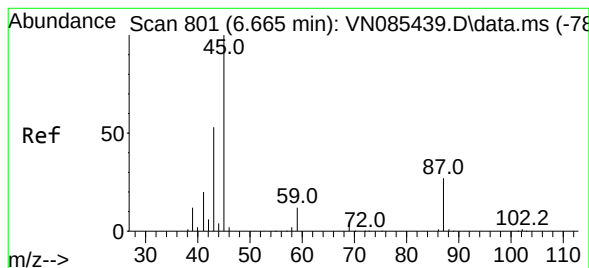
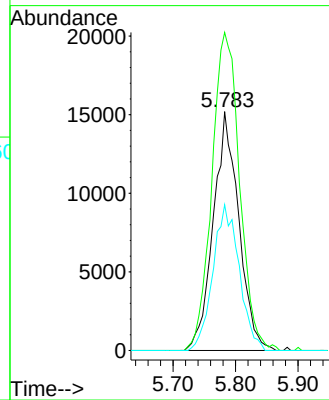
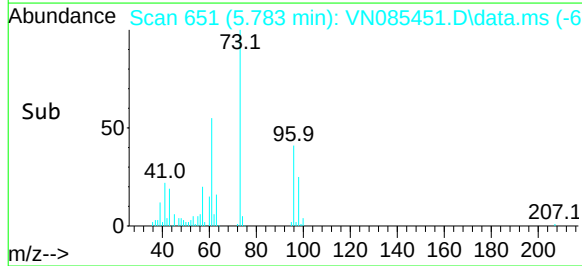
96 100

61 133.1 115.7 173.5

98 61.0 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#22

Diisopropyl ether

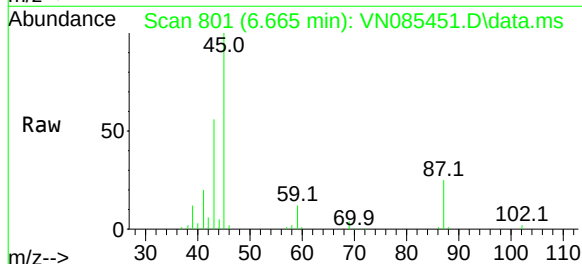
Concen: 21.410 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02



Tgt Ion: 45 Resp: 156331

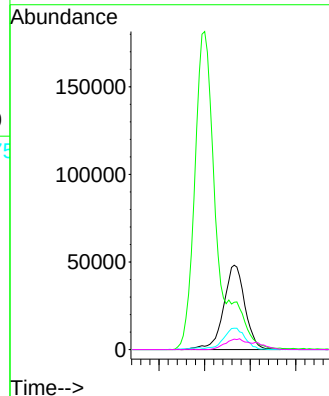
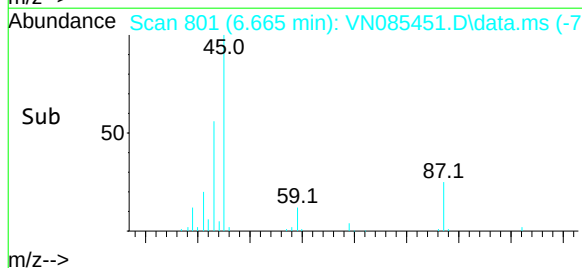
Ion Ratio Lower Upper

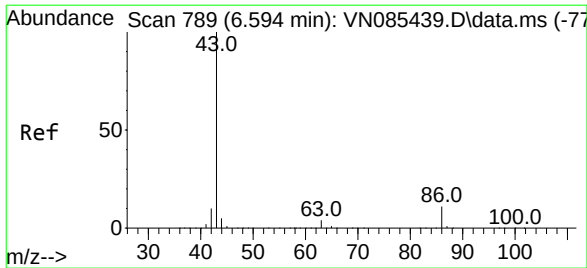
45 100

43 54.3 45.0 67.6

87 25.3 21.8 32.8

59 12.4 10.2 15.2





#23

Vinyl Acetate

Concen: 103.348 ug/l m

RT: 6.600 min Scan# 79

Delta R.T. 0.006 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion: 43 Resp: 528099

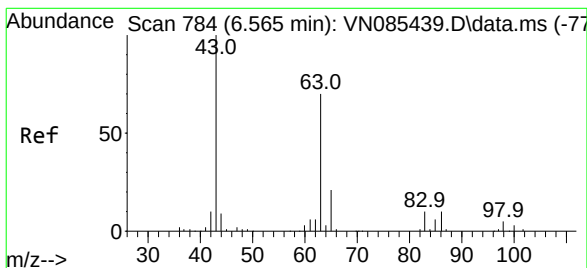
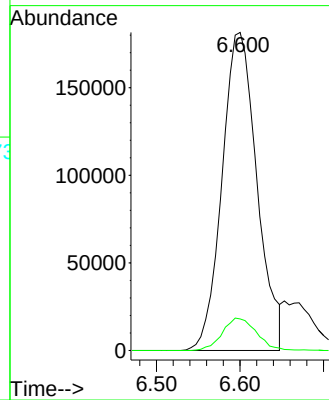
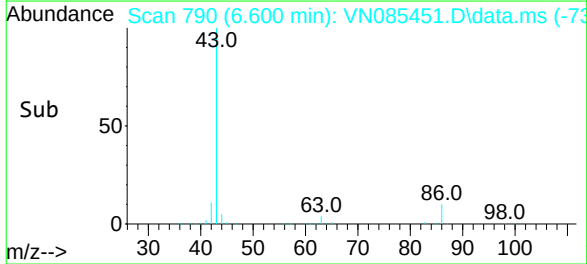
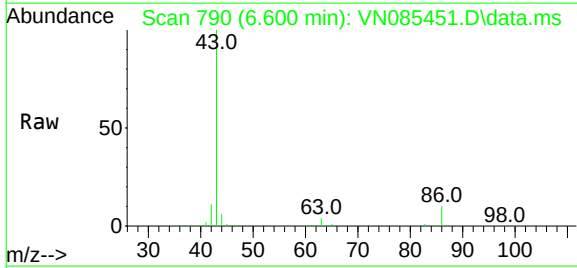
Ion Ratio Lower Upper

43 100

86 9.9 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#24

1,1-Dichloroethane

Concen: 19.952 ug/l

RT: 6.565 min Scan# 784

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

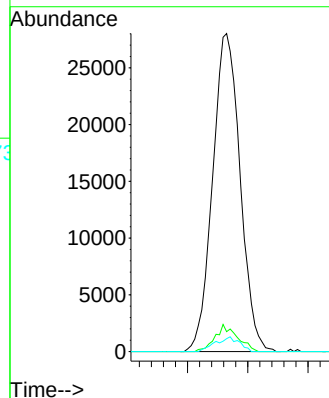
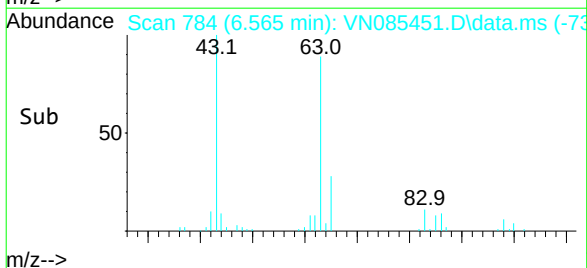
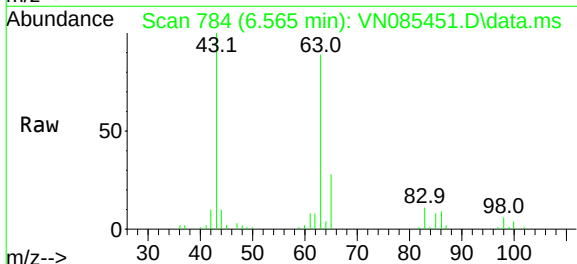
Tgt Ion: 63 Resp: 88831

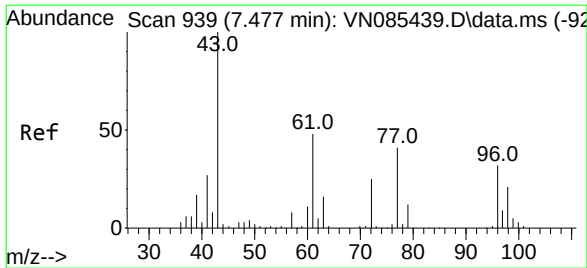
Ion Ratio Lower Upper

63 100

98 6.3 3.3 9.8

100 4.1 2.0 6.0





#25

2-Butanone

Concen: 97.595 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion: 43 Resp: 141498

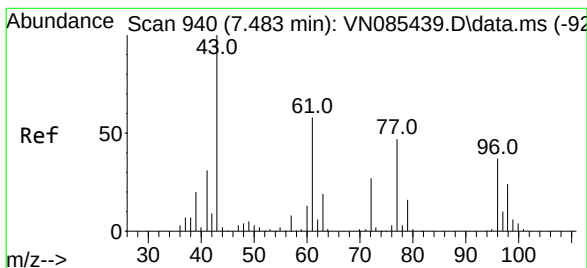
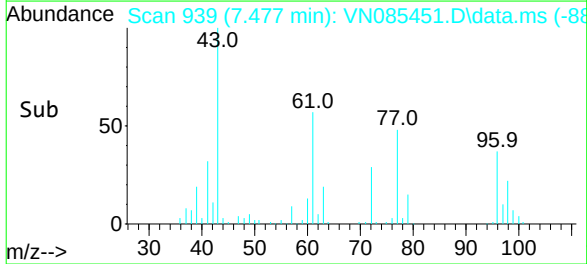
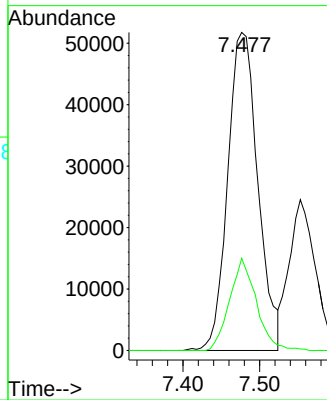
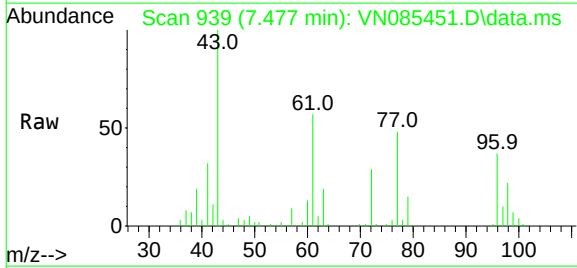
Ion Ratio Lower Upper

43 100

72 29.0 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#26

2,2-Dichloropropane

Concen: 21.728 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085451.D

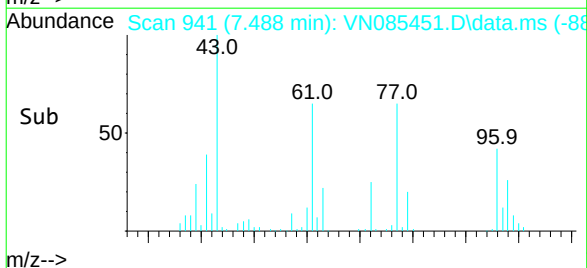
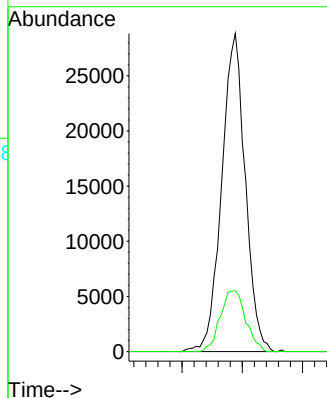
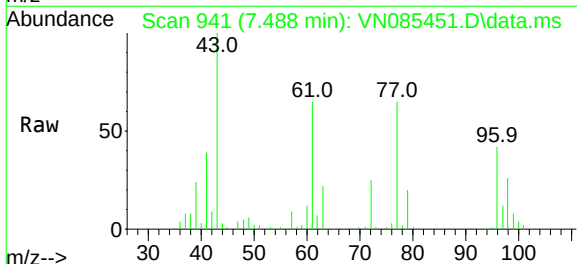
Acq: 15 Jan 2025 11:02

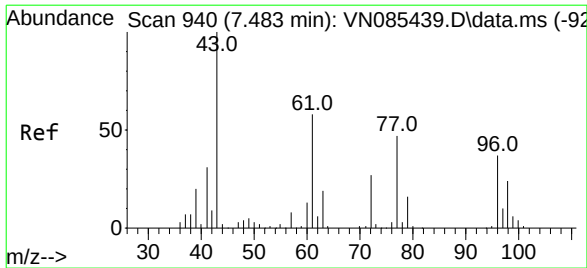
Tgt Ion: 77 Resp: 78212

Ion Ratio Lower Upper

77 100

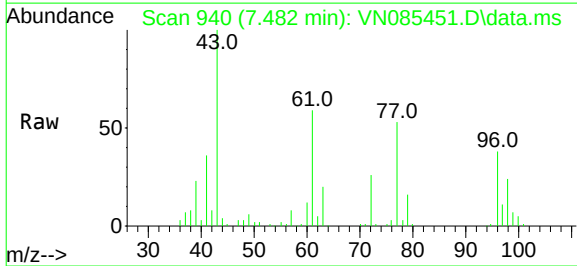
97 20.7 10.7 32.1





#27
cis-1,2-Dichloroethene
Concen: 19.672 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

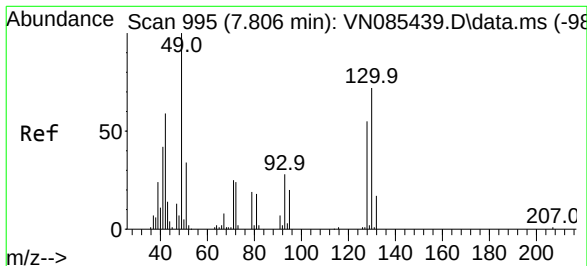
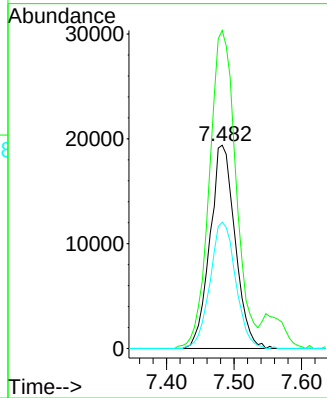
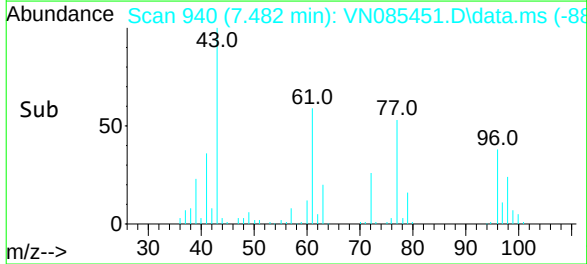
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01



Tgt Ion: 96 Resp: 50200
Ion Ratio Lower Upper
96 100
61 165.3 0.0 311.8
98 63.3 0.0 126.0

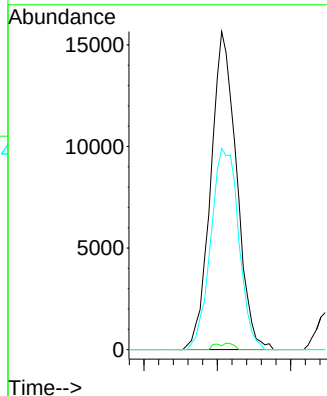
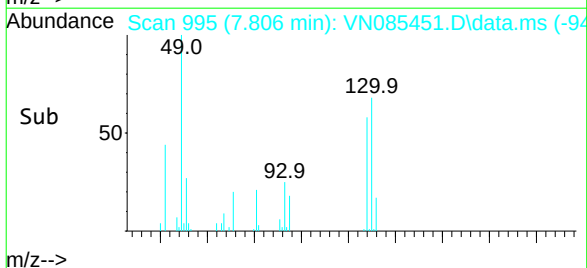
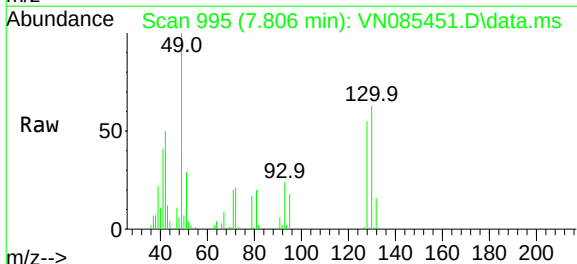
Manual Integrations
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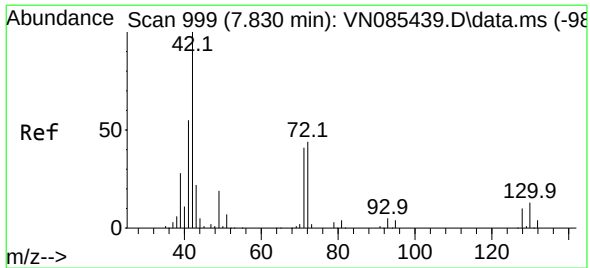
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#28
Bromochloromethane
Concen: 18.460 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 49 Resp: 38238
Ion Ratio Lower Upper
49 100
129 0.7 0.0 4.4
130 68.4 55.0 82.4





#29

Tetrahydrofuran

Concen: 102.217 ug/l

RT: 7.835 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion: 42 Resp: 93959

Ion Ratio Lower Upper

42 100

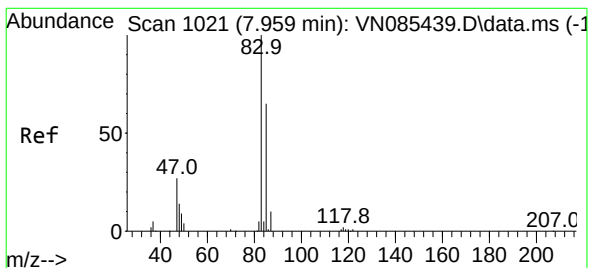
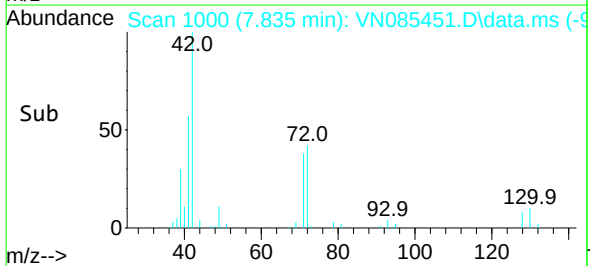
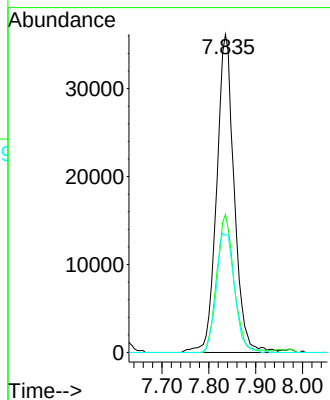
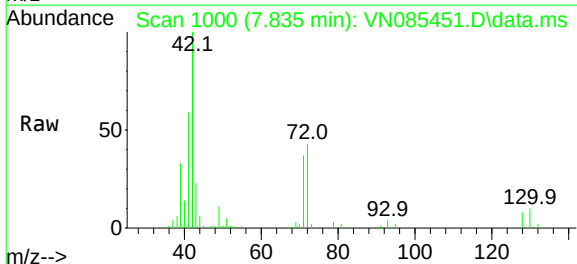
72 42.2 34.2 51.2

71 39.3 32.5 48.7

Manual Integrations

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Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025



#30

Chloroform

Concen: 20.149 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085451.D

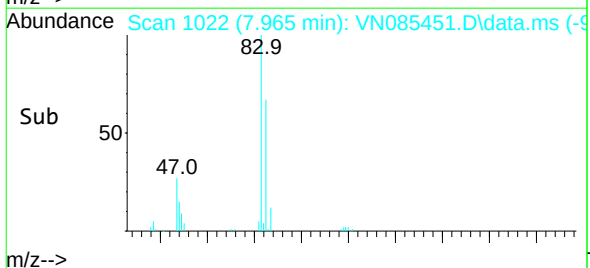
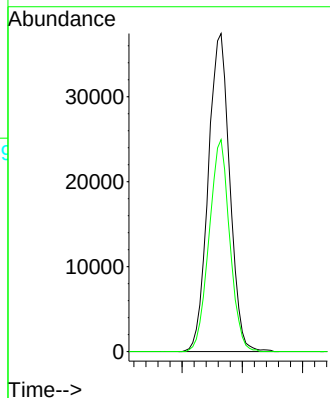
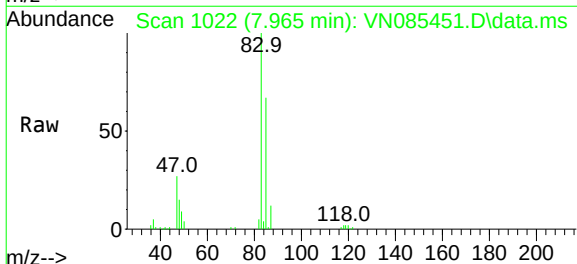
Acq: 15 Jan 2025 11:02

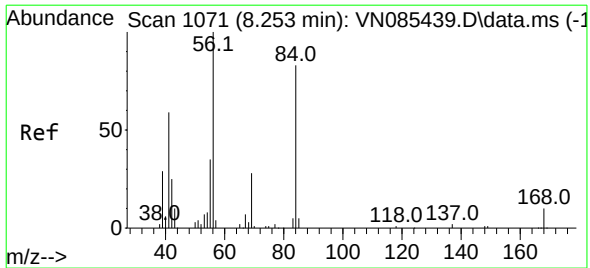
Tgt Ion: 83 Resp: 92715

Ion Ratio Lower Upper

83 100

85 66.6 51.8 77.6





#31

Cyclohexane

Concen: 18.672 ug/l

RT: 8.247 min Scan# 1071

Delta R.T. -0.006 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion: 56 Resp: 72255

Ion Ratio Lower Upper

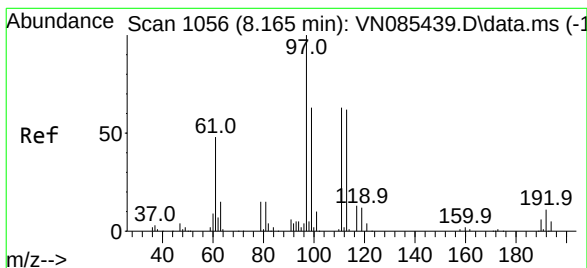
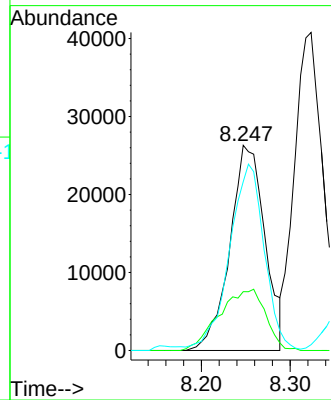
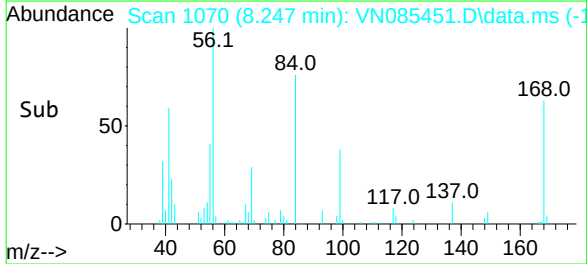
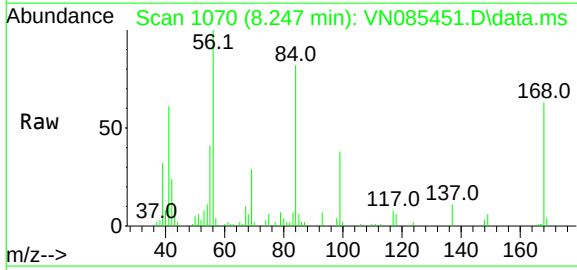
56 100

69 28.7 22.2 33.4

84 80.4 66.4 99.6

Manual Integrations

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Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#32

1,1,1-Trichloroethane

Concen: 19.867 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

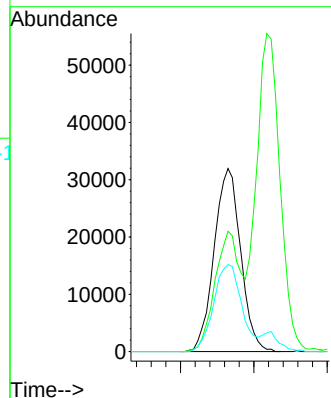
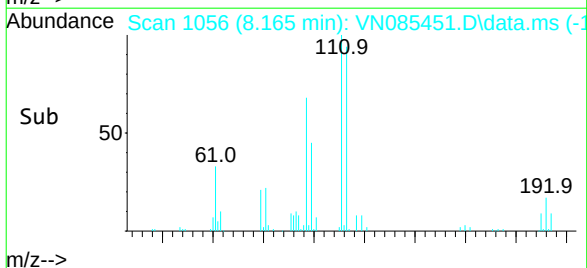
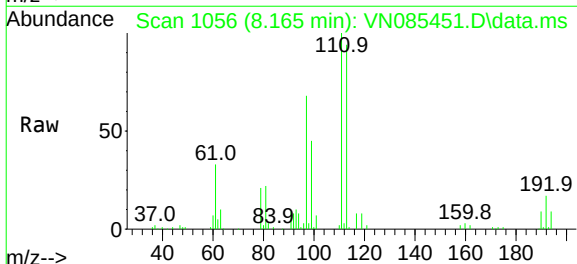
Tgt Ion: 97 Resp: 80190

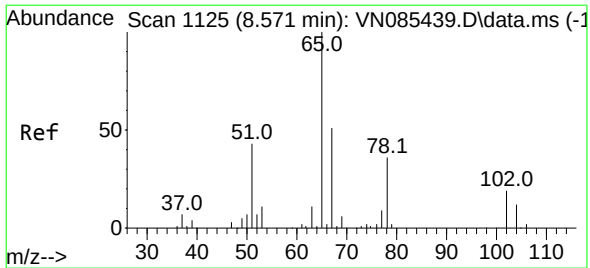
Ion Ratio Lower Upper

97 100

99 64.5 49.8 74.6

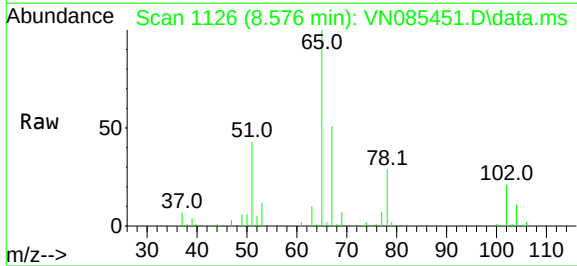
61 50.6 41.4 62.2





#33
1,2-Dichloroethane-d4
Concen: 48.941 ug/l
RT: 8.576 min Scan# 111
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

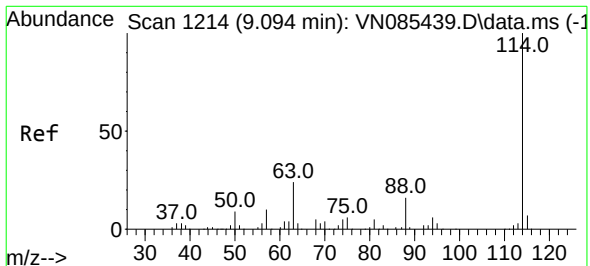
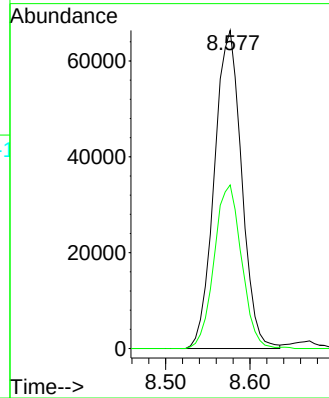
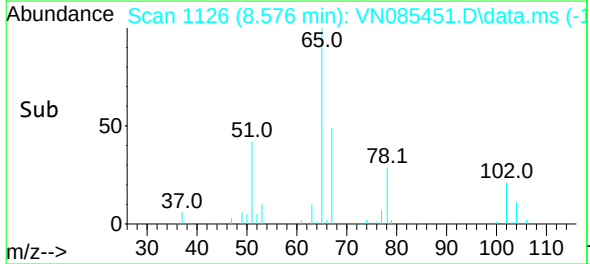
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01



Tgt Ion: 65 Resp: 149231
Ion Ratio Lower Upper
65 100
67 51.7 0.0 101.6

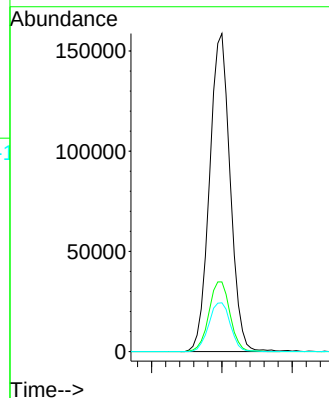
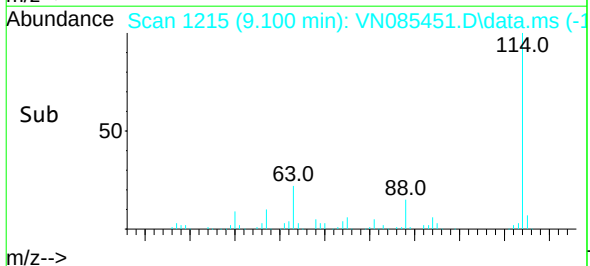
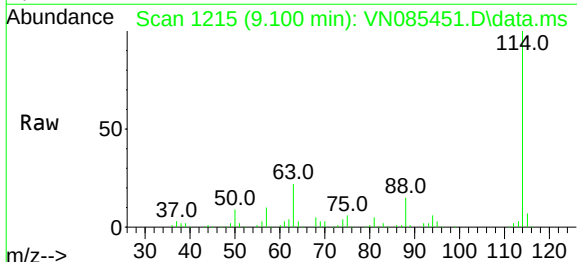
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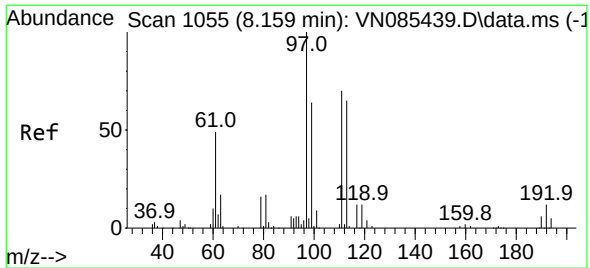
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:114 Resp: 323122
Ion Ratio Lower Upper
114 100
63 21.9 0.0 47.6
88 15.3 0.0 32.6





#35

Dibromofluoromethane

Concen: 49.259 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion: 113 Resp: 110423

Ion Ratio Lower Upper

113 100

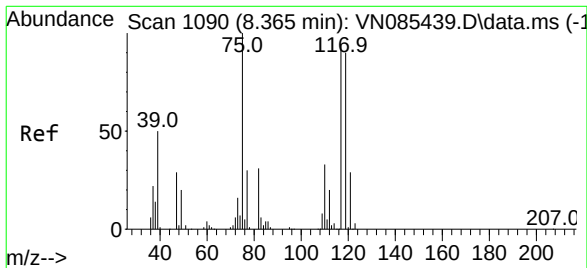
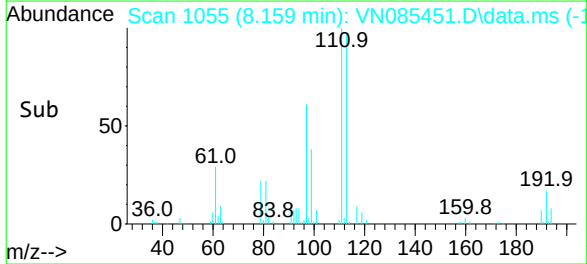
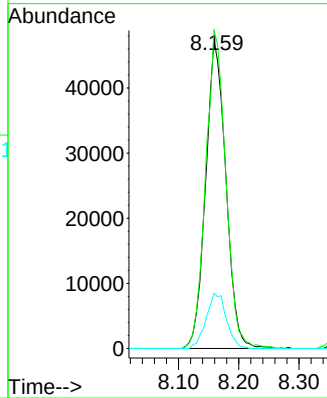
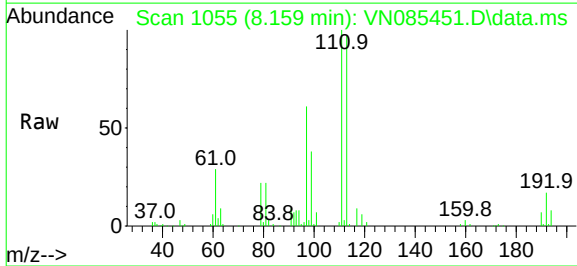
111 103.1 82.7 124.1

192 17.9 14.3 21.5

Manual Integrations

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Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025



#36

1,1-Dichloropropene

Concen: 19.650 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

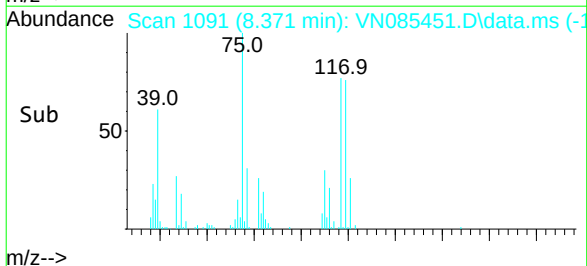
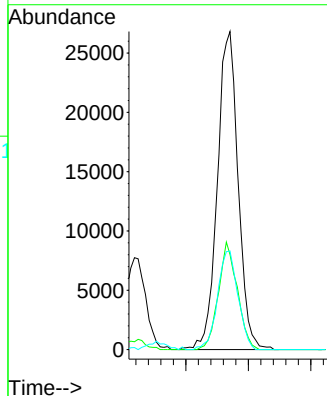
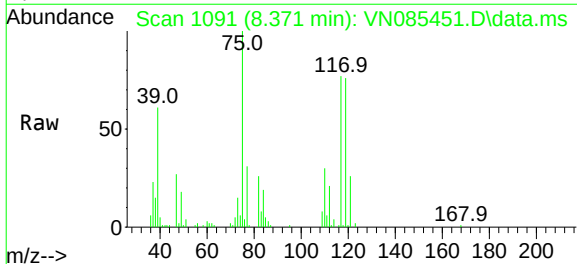
Tgt Ion: 75 Resp: 61822

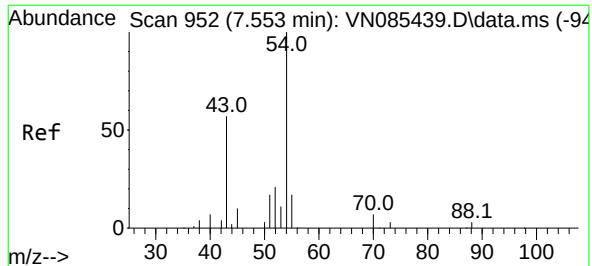
Ion Ratio Lower Upper

75 100

110 30.8 16.5 49.5

77 30.6 24.4 36.6





#37

Ethyl Acetate

Concen: 18.795 ug/l

RT: 7.553 min Scan# 952

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion: 43 Resp: 59684

Ion Ratio Lower Upper

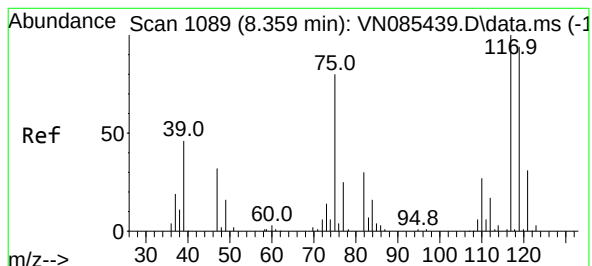
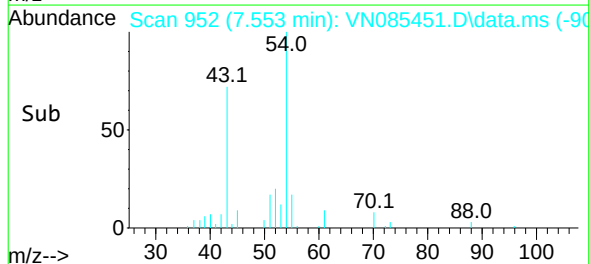
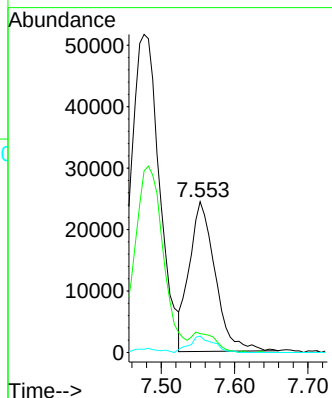
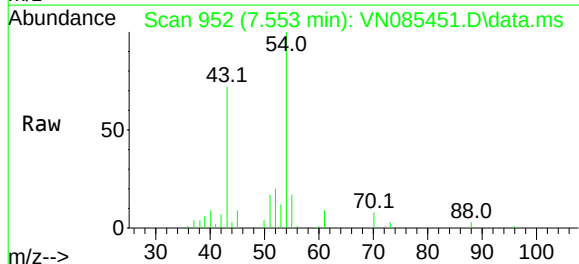
43 100

61 12.3 10.9 16.3

70 10.1 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#38

Carbon Tetrachloride

Concen: 19.911 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

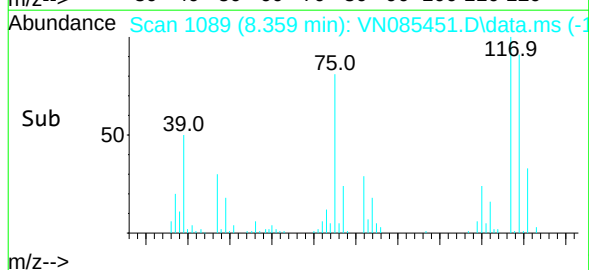
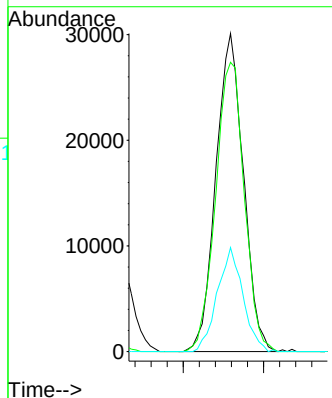
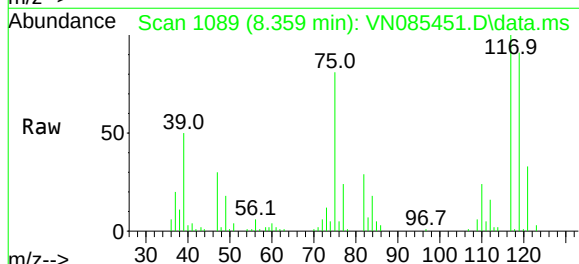
Tgt Ion:117 Resp: 71714

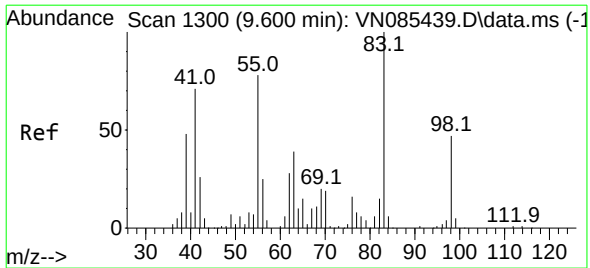
Ion Ratio Lower Upper

117 100

119 91.0 75.4 113.2

121 32.7 24.6 37.0





#39

Methylcyclohexane

Concen: 20.011 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

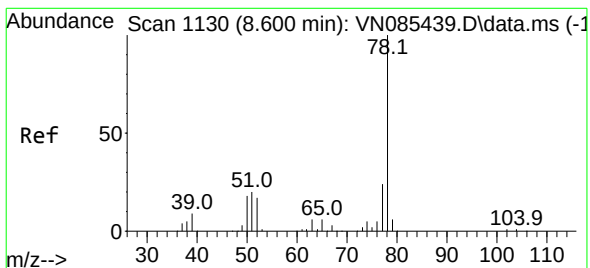
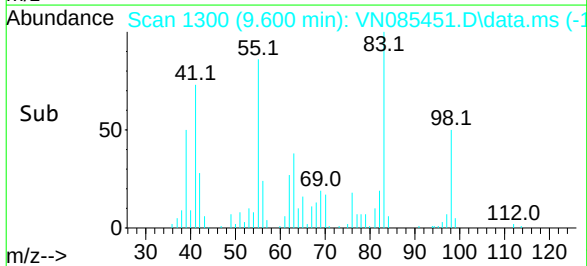
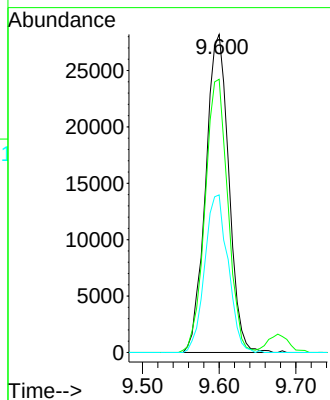
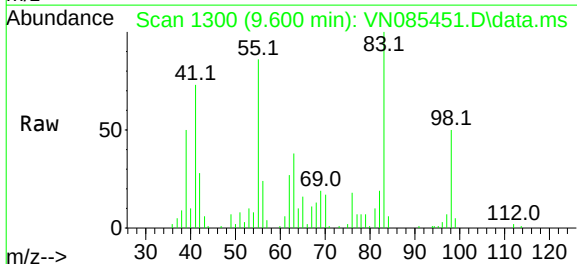
ClientSampleId :

VN0115WBSD01

Tgt Ion:	83	Resp:	59161
Ion	Ratio	Lower	Upper
83	100		
55	85.9	62.6	94.0
98	49.6	37.7	56.5

Manual Integrations
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Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#40

Benzene

Concen: 20.061 ug/l

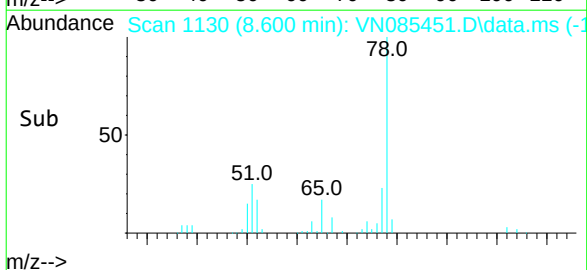
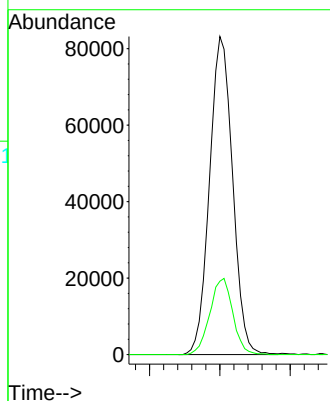
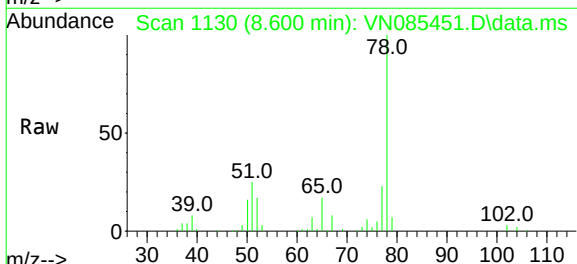
RT: 8.600 min Scan# 1130

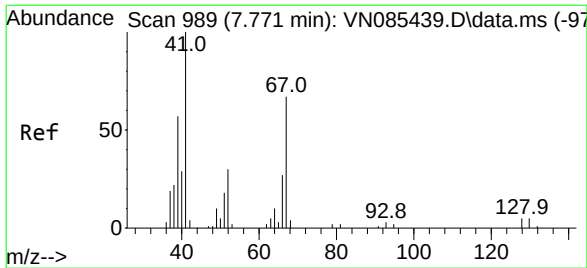
Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Tgt Ion:	78	Resp:	189640
Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.0	28.6





#41

Methacrylonitrile

Concen: 19.288 ug/l

RT: 7.771 min Scan# 989

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion: 41 Resp: 31866

Ion Ratio Lower Upper

41 100

39 58.3 46.0 69.0

67 71.3 57.4 86.2

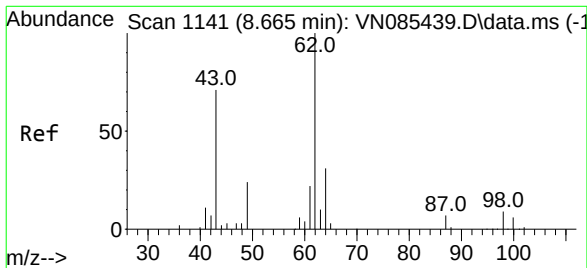
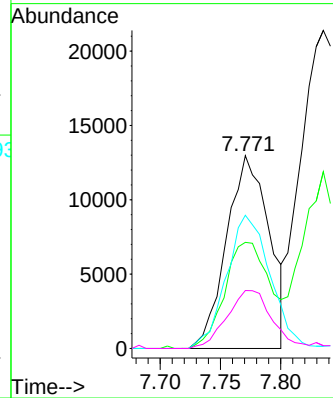
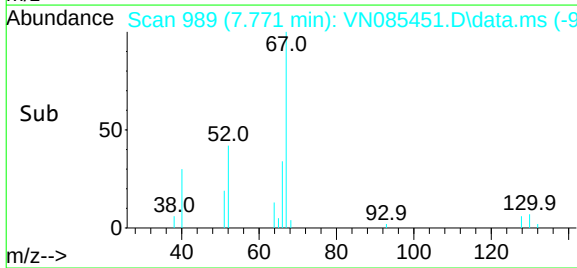
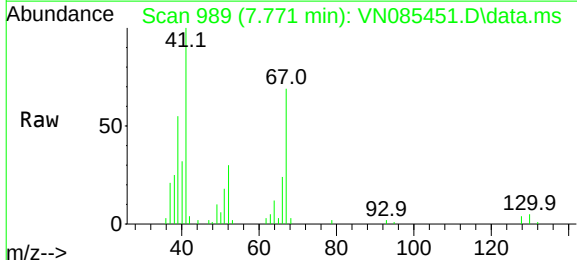
52 31.7 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#42

1,2-Dichloroethane

Concen: 20.692 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN085451.D

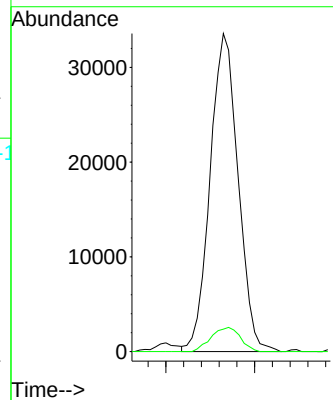
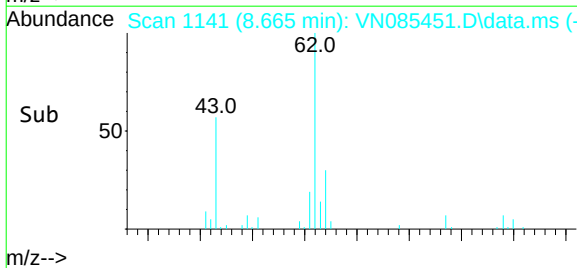
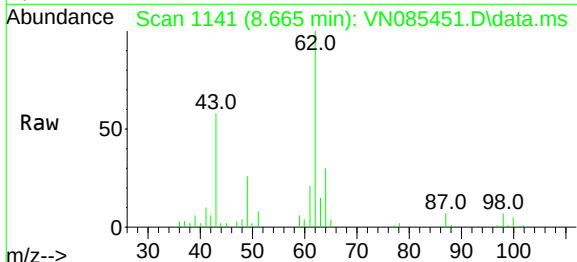
Acq: 15 Jan 2025 11:02

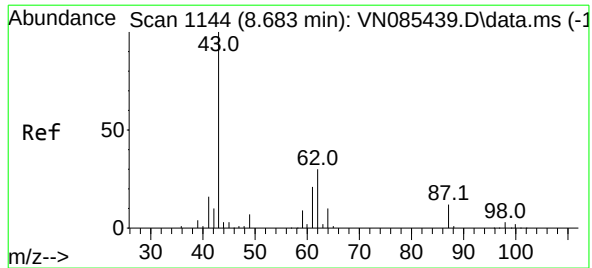
Tgt Ion: 62 Resp: 73669

Ion Ratio Lower Upper

62 100

98 7.9 0.0 17.0





#43

Isopropyl Acetate

Concen: 19.708 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion: 43 Resp: 100283

Ion Ratio Lower Upper

43 100

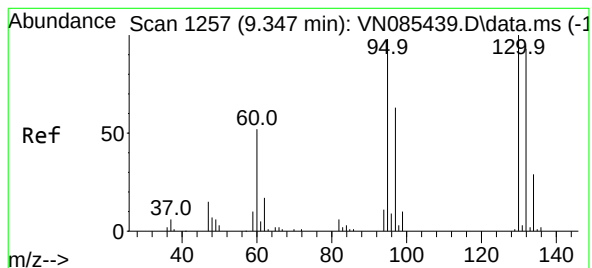
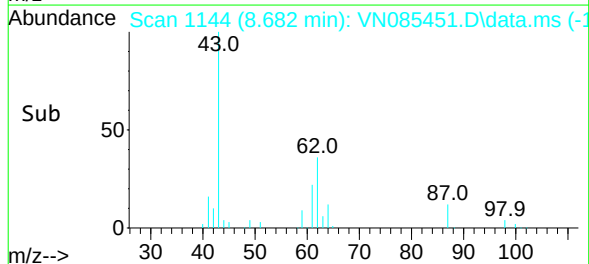
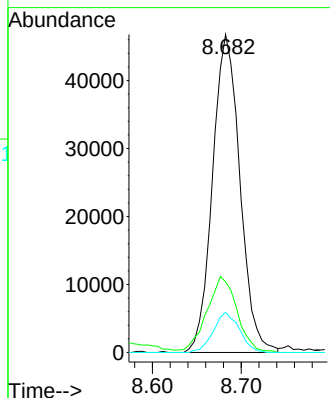
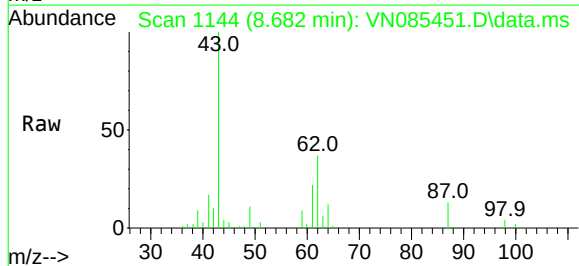
61 26.5 20.7 31.1

87 12.0 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025



#44

Trichloroethene

Concen: 20.145 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.000 min

Lab File: VN085451.D

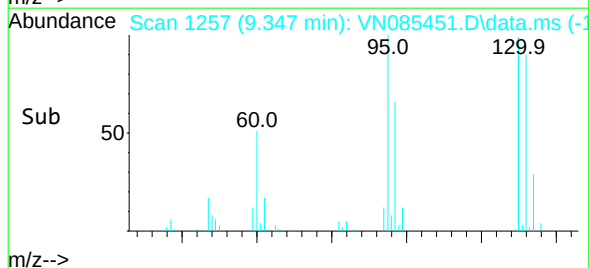
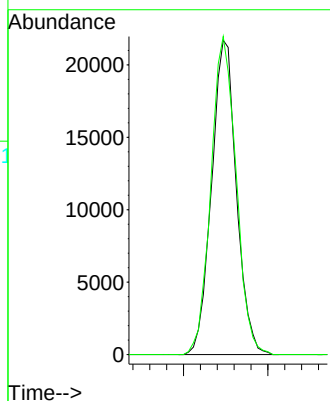
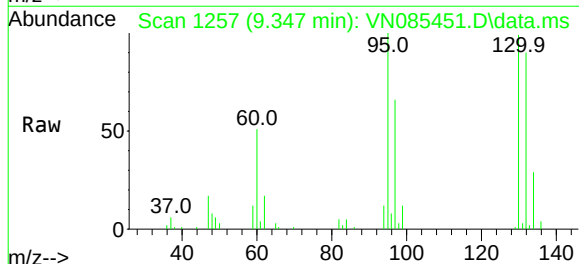
Acq: 15 Jan 2025 11:02

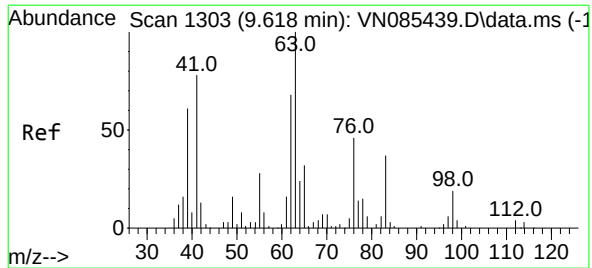
Tgt Ion:130 Resp: 44329

Ion Ratio Lower Upper

130 100

95 101.2 0.0 195.8





#45

1,2-Dichloropropane

Concen: 20.167 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion: 63 Resp: 48696

Ion Ratio Lower Upper

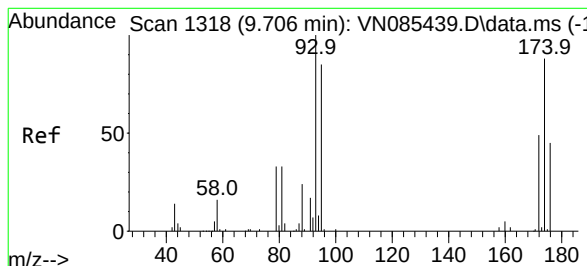
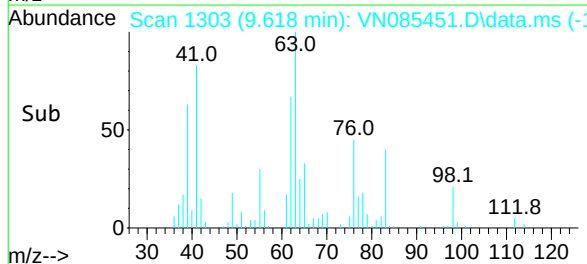
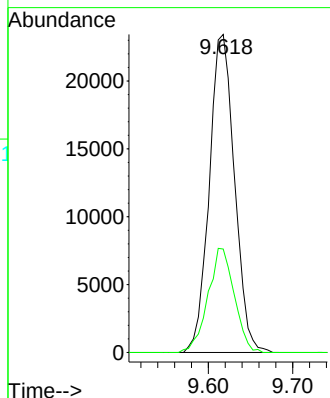
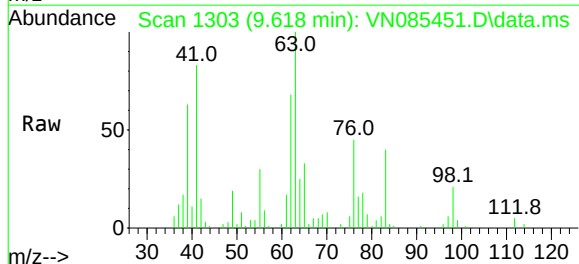
63 100

65 32.5 25.6 38.4

Manual Integrations

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Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#46

Dibromomethane

Concen: 19.561 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

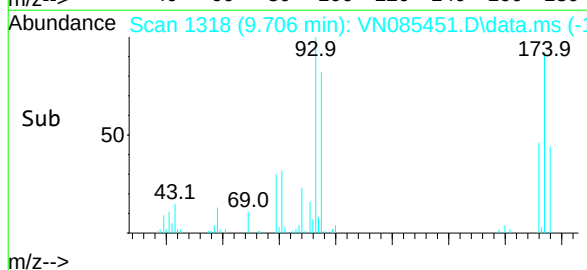
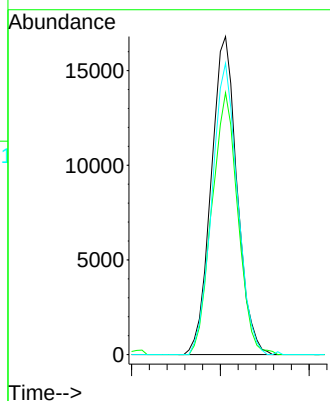
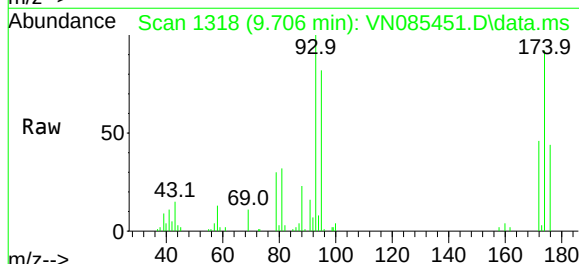
Tgt Ion: 93 Resp: 34080

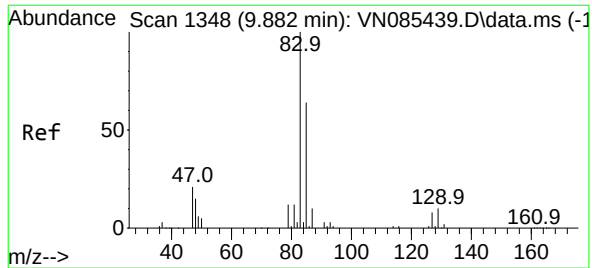
Ion Ratio Lower Upper

93 100

95 82.2 64.7 97.1

174 90.2 69.0 103.4





#47

Bromodichloromethane

Concen: 20.909 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085451.D

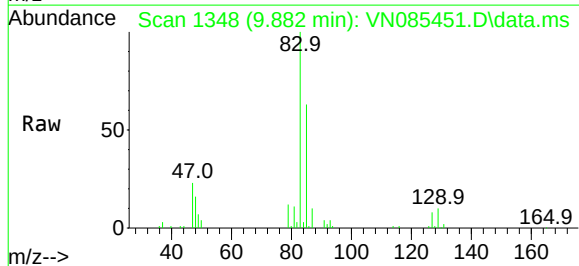
Acq: 15 Jan 2025 11:02

Instrument :

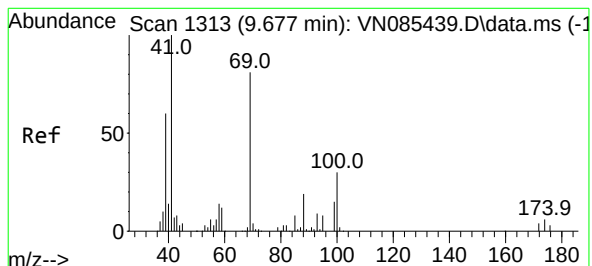
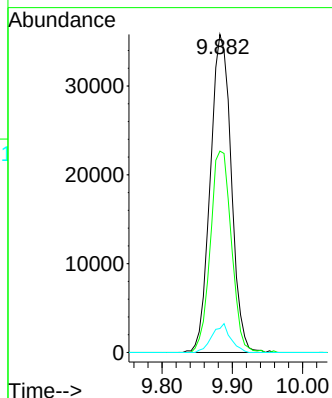
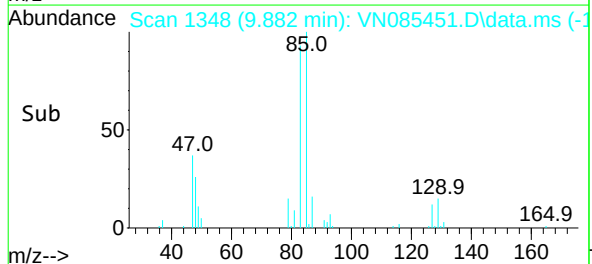
MSVOA_N

ClientSampleId :

VN0115WBSD01



Tgt Ion:	83	Resp:	74218
Ion Ratio	Lower	Upper	
83	100		
85	63.3	51.2	76.8
127	7.5	6.5	9.7

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Supervised By :Semsettin Yesilyurt 01/16/2025

#48

Methyl methacrylate

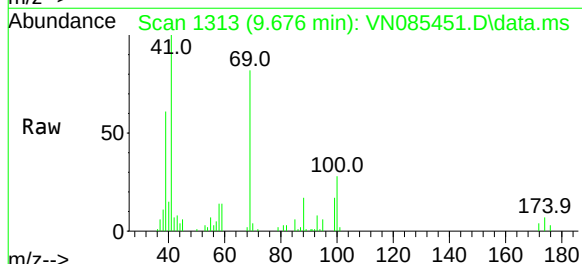
Concen: 20.374 ug/l

RT: 9.676 min Scan# 1313

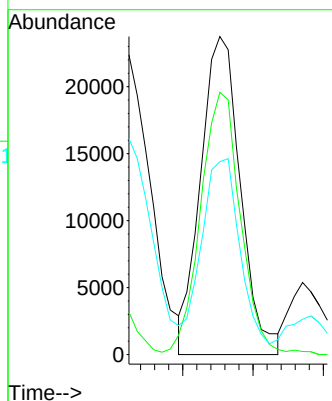
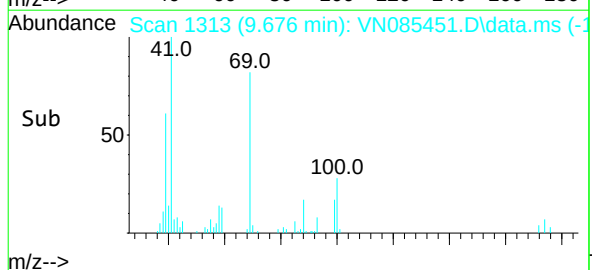
Delta R.T. -0.001 min

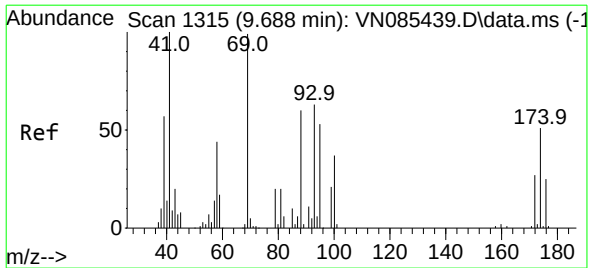
Lab File: VN085451.D

Acq: 15 Jan 2025 11:02



Tgt Ion:	41	Resp:	46655
Ion Ratio	Lower	Upper	
41	100		
69	82.9	64.7	97.1
39	61.1	49.0	73.6





#49

1,4-Dioxane

Concen: 388.550 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion: 88 Resp: 14983

Ion Ratio Lower Upper

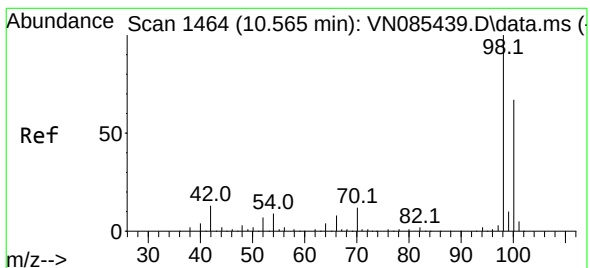
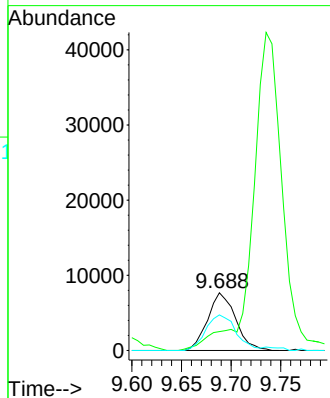
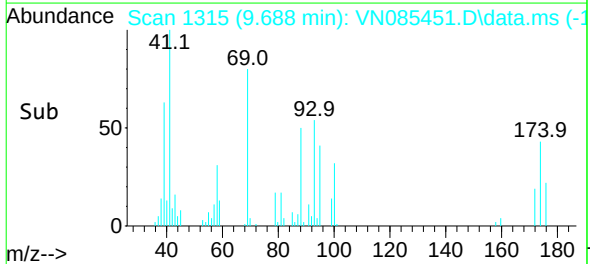
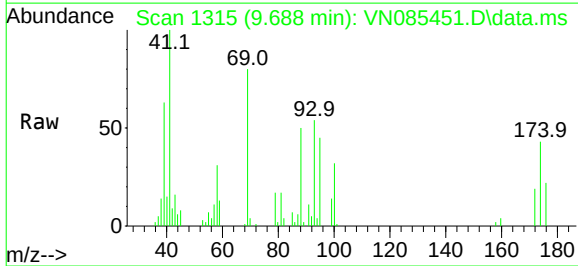
88 100

43 0.0 26.6 39.8

58 66.8 59.5 89.3

Manual Integrations

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Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#50

Toluene-d8

Concen: 50.102 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085451.D

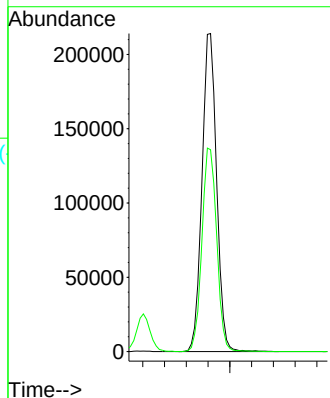
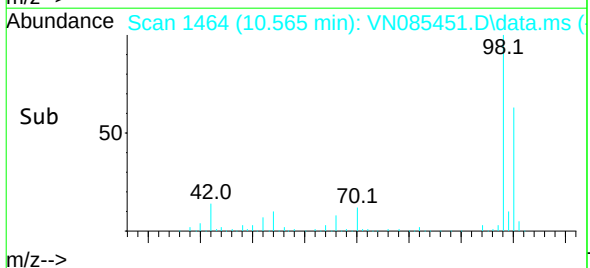
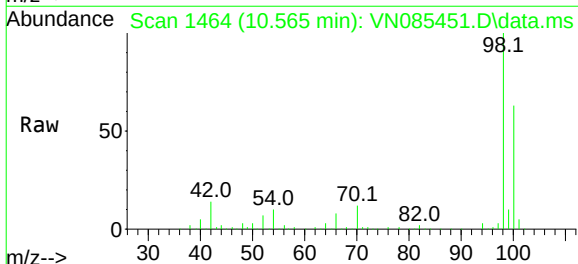
Acq: 15 Jan 2025 11:02

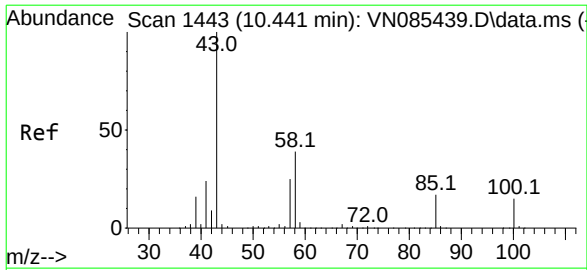
Tgt Ion: 98 Resp: 399040

Ion Ratio Lower Upper

98 100

100 64.8 52.2 78.4





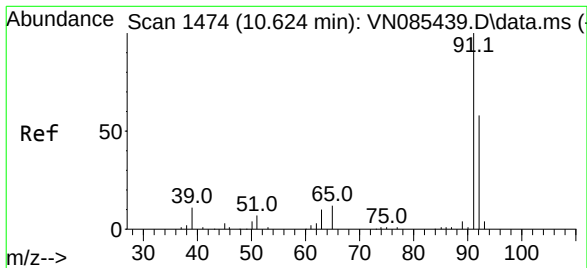
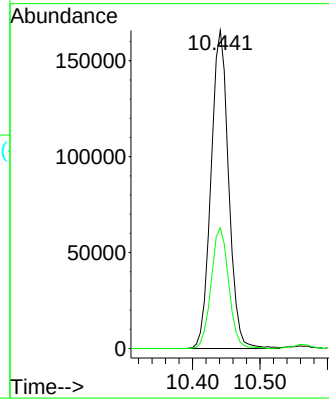
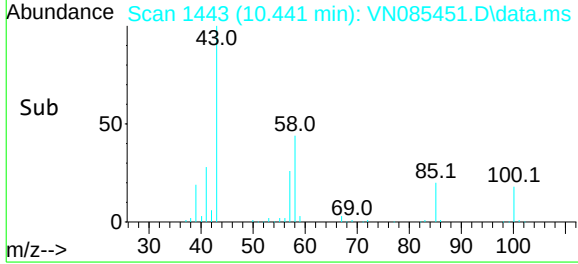
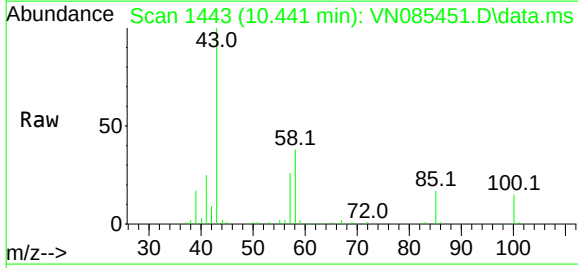
#51
4-Methyl-2-Pentanone
Concen: 101.808 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 43 Resp: 300611
Ion Ratio Lower Upper
43 100
58 37.8 30.5 45.7

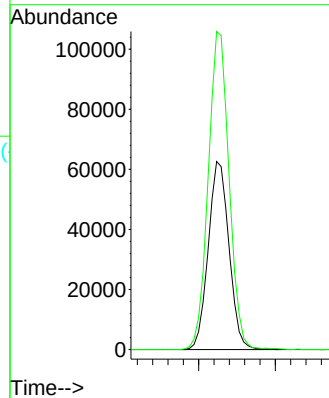
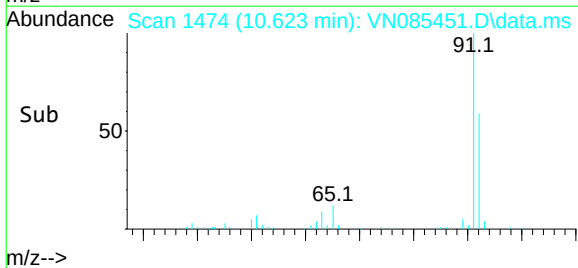
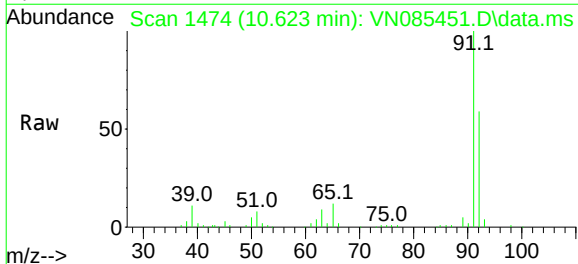
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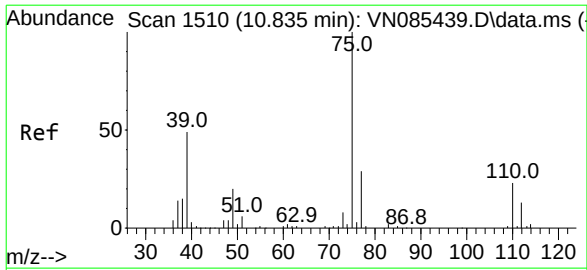
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#52
Toluene
Concen: 21.476 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.001 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 92 Resp: 117631
Ion Ratio Lower Upper
92 100
91 169.9 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 20.276 ug/l

RT: 10.829 min Scan# 1510

Delta R.T. -0.006 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion: 75 Resp: 68014

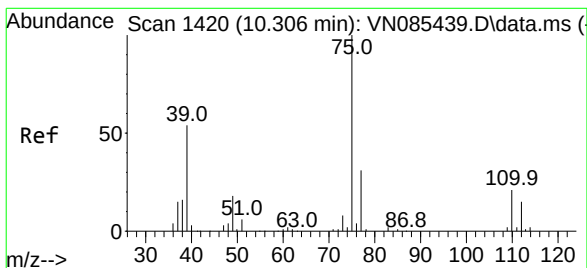
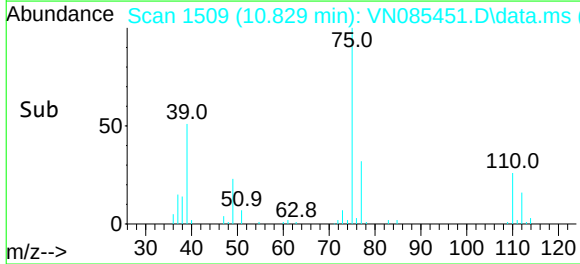
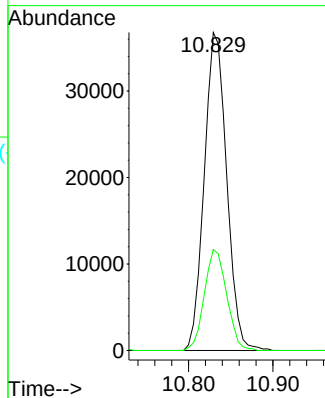
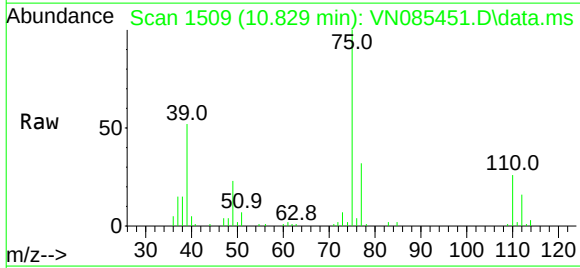
Ion Ratio Lower Upper

75 100

77 31.7 23.5 35.3

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Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#54

cis-1,3-Dichloropropene

Concen: 20.973 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

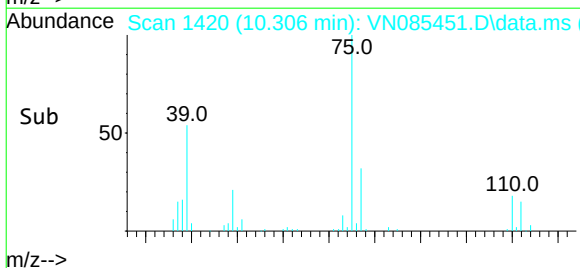
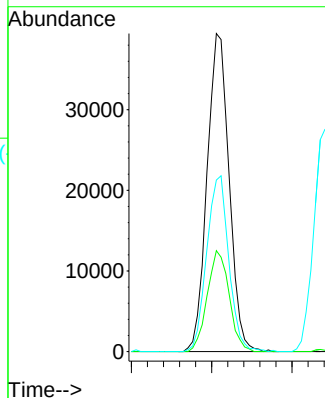
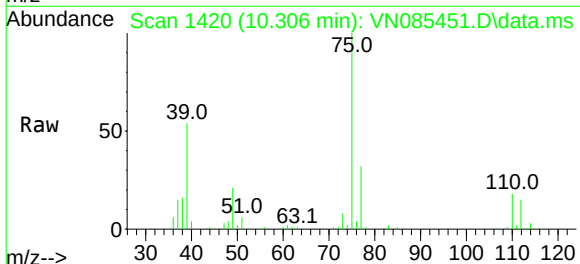
Tgt Ion: 75 Resp: 75146

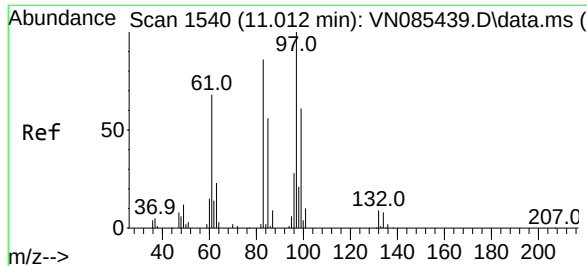
Ion Ratio Lower Upper

75 100

77 31.7 25.0 37.4

39 53.9 43.1 64.7





#55

1,1,2-Trichloroethane

Concen: 20.861 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion: 97 Resp: 45220

Ion Ratio Lower Upper

97 100

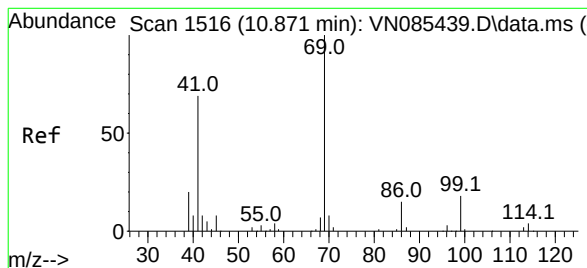
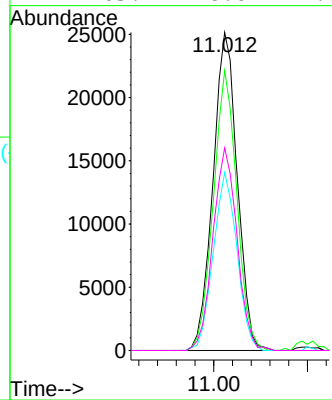
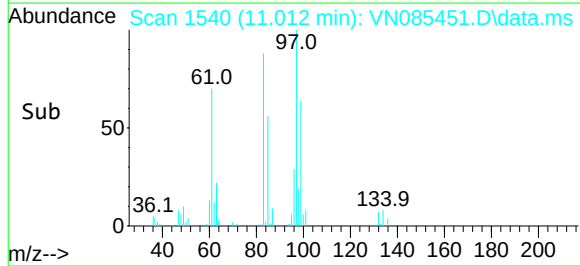
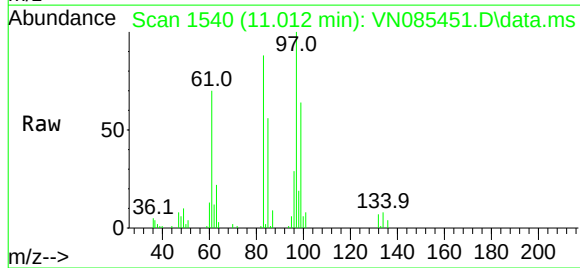
83 88.0 69.0 103.6

85 55.9 44.6 66.8

99 63.7 48.6 72.8

Manual Integrations

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Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#56

Ethyl methacrylate

Concen: 18.769 ug/l

RT: 10.870 min Scan# 1516

Delta R.T. -0.001 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

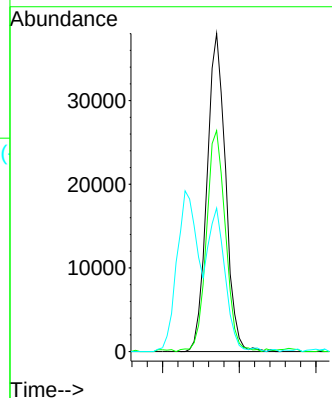
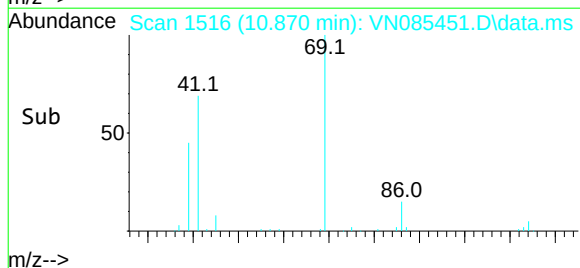
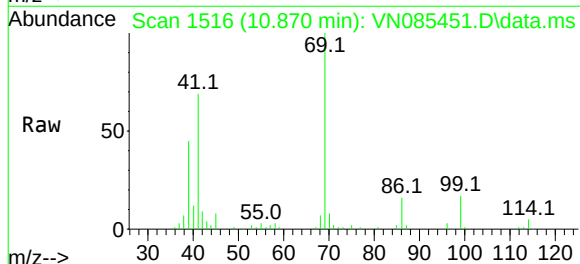
Tgt Ion: 69 Resp: 63954

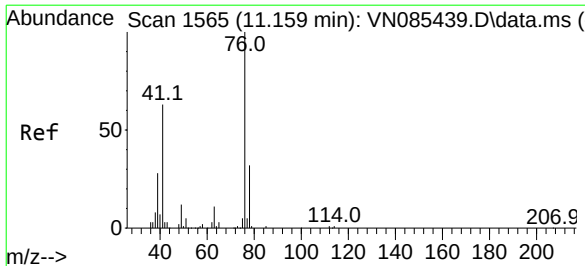
Ion Ratio Lower Upper

69 100

41 71.0 54.6 82.0

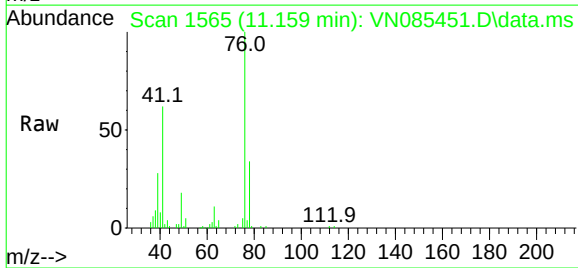
39 40.3 32.4 48.6





#57
1,3-Dichloropropane
Concen: 20.424 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

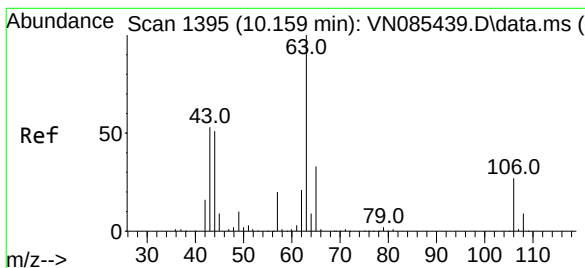
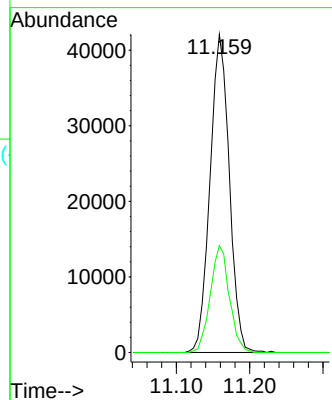
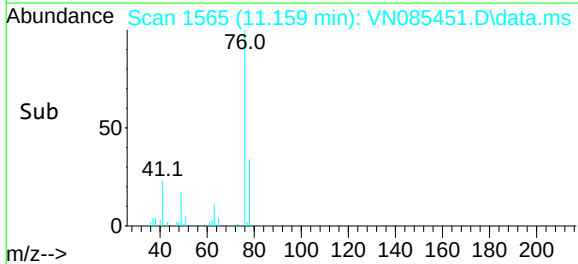
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01



Tgt Ion: 76 Resp: 76979
Ion Ratio Lower Upper
76 100
78 33.2 25.6 38.4

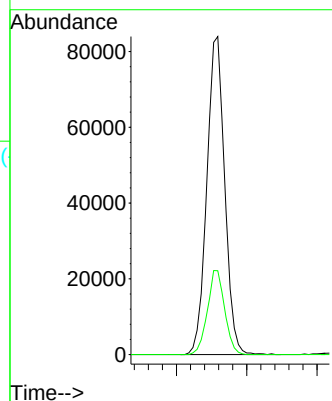
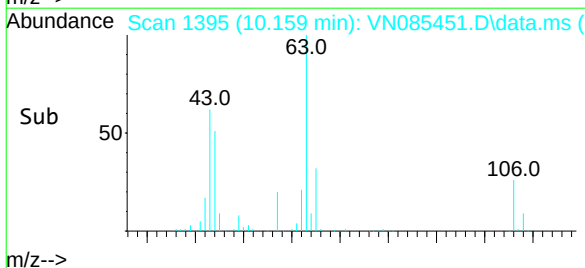
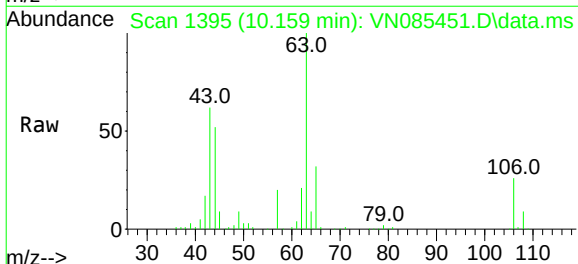
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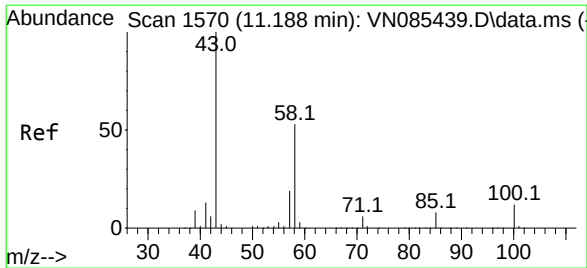
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#58
2-Chloroethyl Vinyl ether
Concen: 107.782 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 63 Resp: 148262
Ion Ratio Lower Upper
63 100
106 25.5 21.6 32.4





#59

2-Hexanone

Concen: 101.890 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion: 43 Resp: 211689

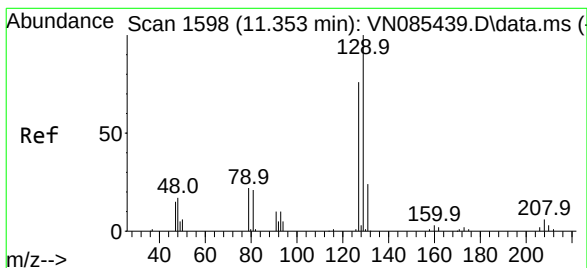
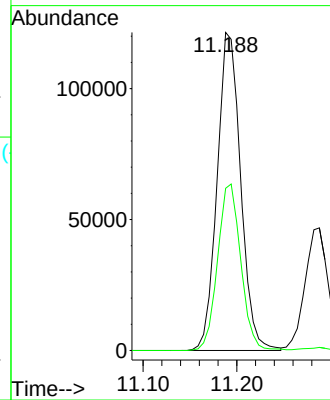
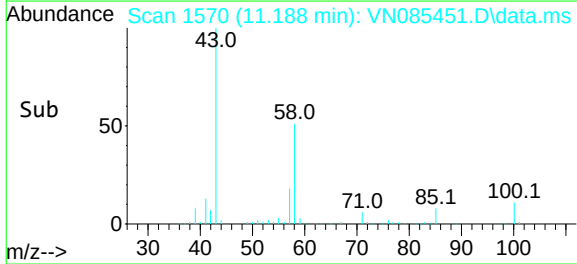
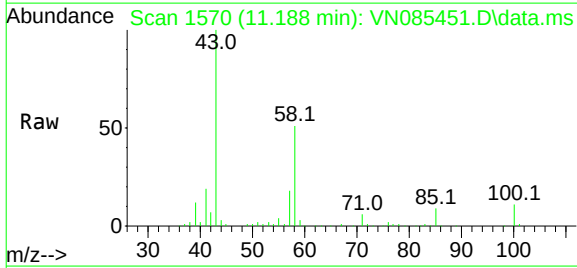
Ion Ratio Lower Upper

43 100

58 51.5 26.2 78.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#60

Dibromochloromethane

Concen: 20.236 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. -0.000 min

Lab File: VN085451.D

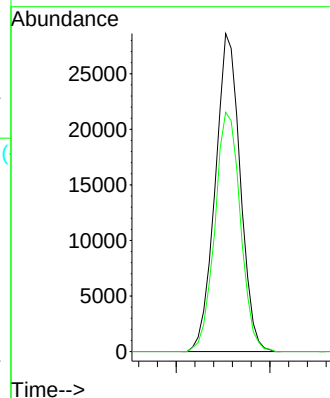
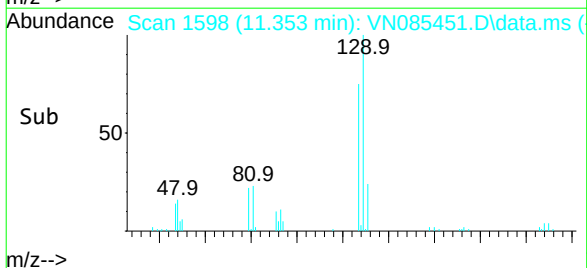
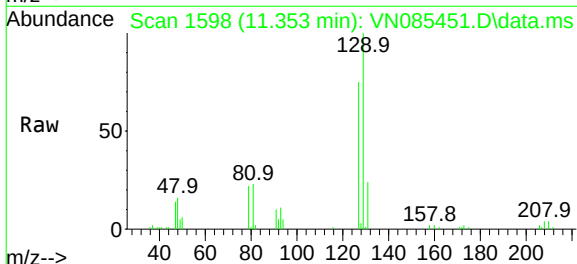
Acq: 15 Jan 2025 11:02

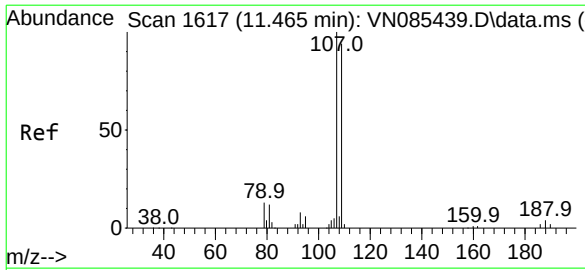
Tgt Ion:129 Resp: 52957

Ion Ratio Lower Upper

129 100

127 76.8 38.6 115.8





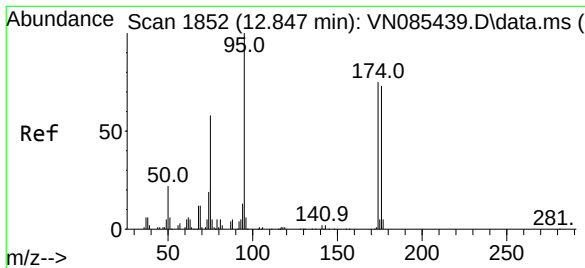
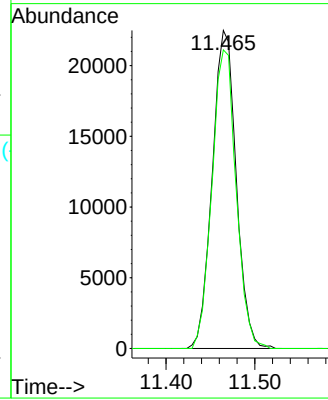
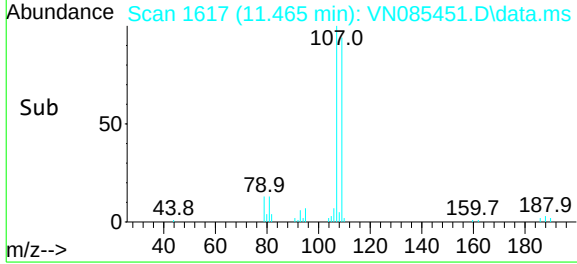
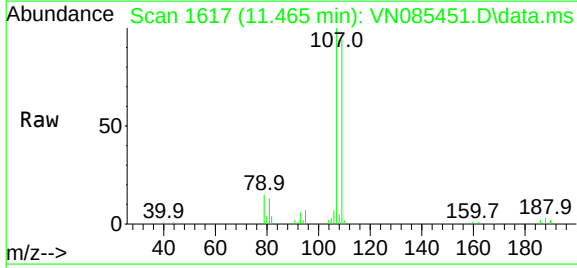
#61
1,2-Dibromoethane
Concen: 19.533 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 107 Resp: 42146
Ion Ratio Lower Upper
107 100
109 94.7 75.9 113.9

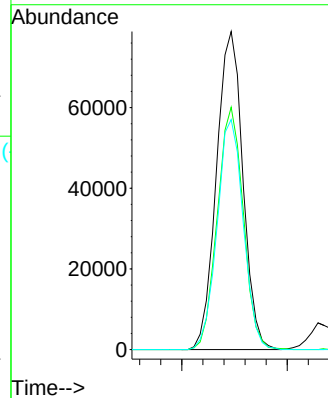
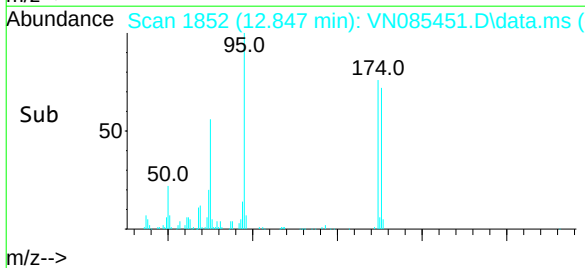
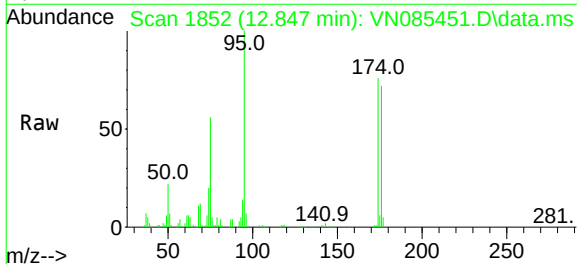
Manual Integrations
APPROVED

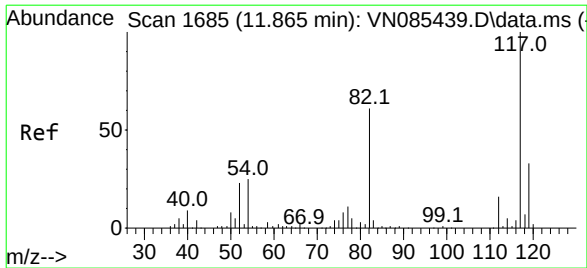
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#62
4-Bromofluorobenzene
Concen: 50.364 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

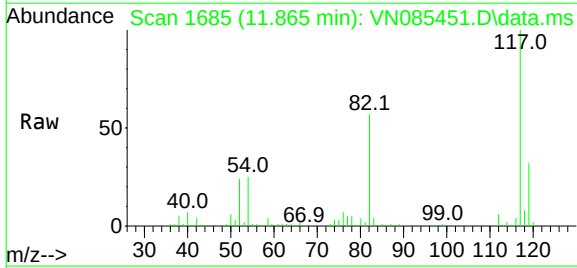
Tgt Ion: 95 Resp: 137216
Ion Ratio Lower Upper
95 100
174 74.8 0.0 145.0
176 71.6 0.0 142.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

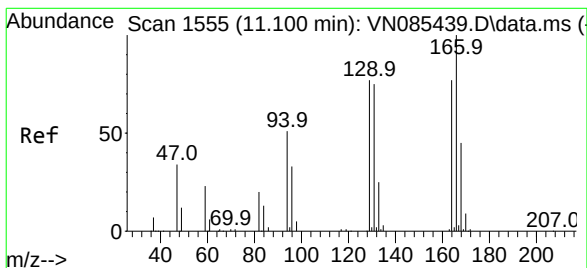
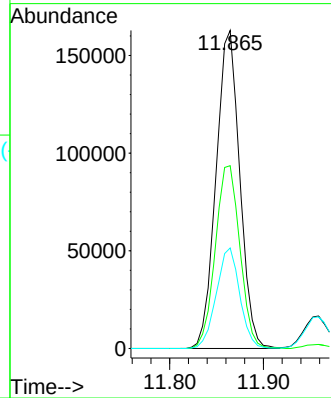
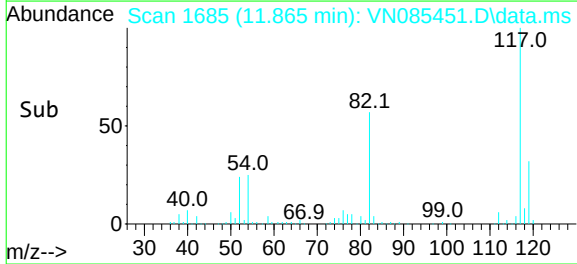
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01



Tgt Ion:117 Resp: 286298
Ion Ratio Lower Upper
117 100
82 57.5 48.6 72.8
119 31.6 26.6 39.8

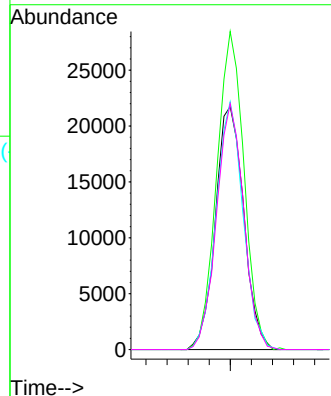
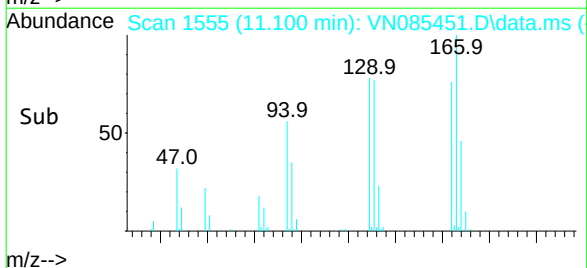
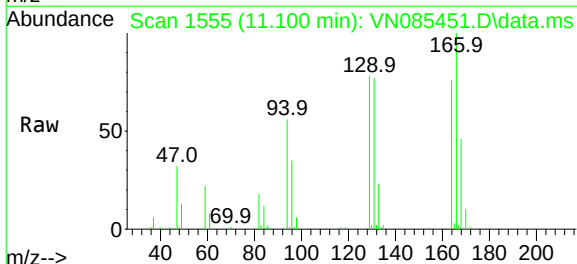
Manual Integrations
APPROVED

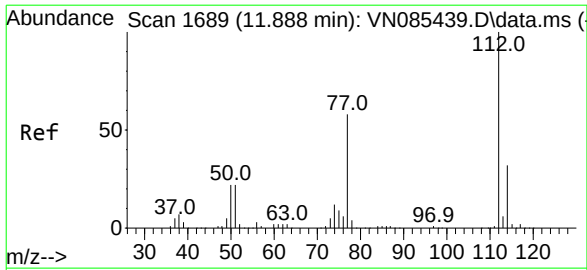
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#64
Tetrachloroethene
Concen: 20.740 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:164 Resp: 40480
Ion Ratio Lower Upper
164 100
166 130.9 103.4 155.2
129 101.9 79.2 118.8
131 101.1 77.1 115.7





#65

Chlorobenzene

Concen: 19.546 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion:112 Resp: 122590

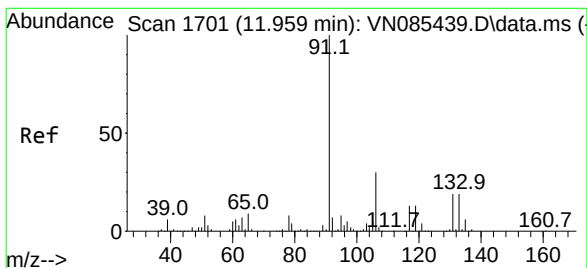
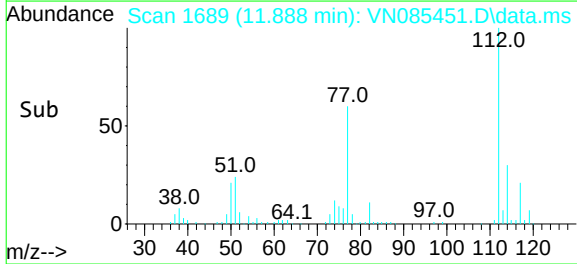
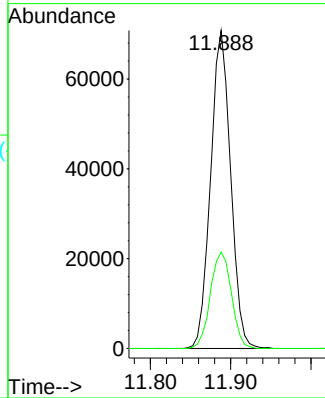
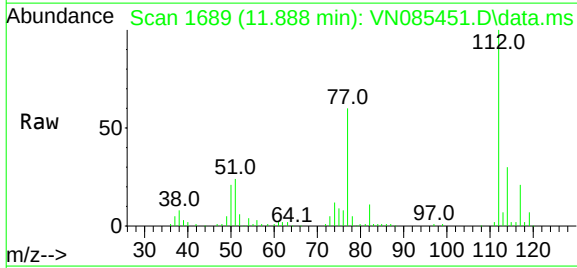
Ion Ratio Lower Upper

112 100

114 30.3 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#66

1,1,1,2-Tetrachloroethane

Concen: 19.484 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

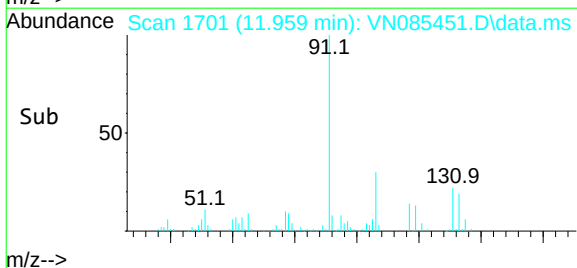
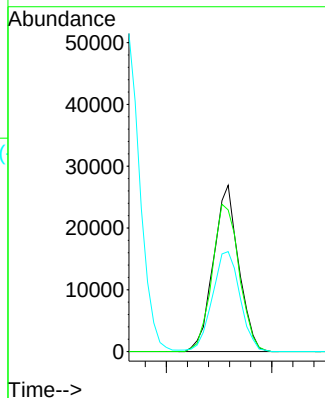
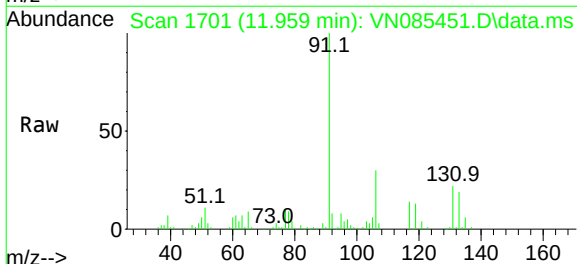
Tgt Ion:131 Resp: 44850

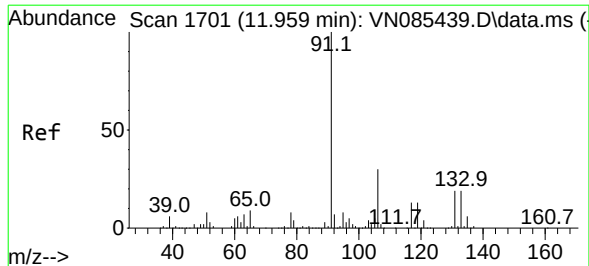
Ion Ratio Lower Upper

131 100

133 94.6 47.4 142.3

119 65.9 33.1 99.5





#67

Ethyl Benzene

Concen: 20.381 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion: 91 Resp: 208196

Ion Ratio Lower Upper

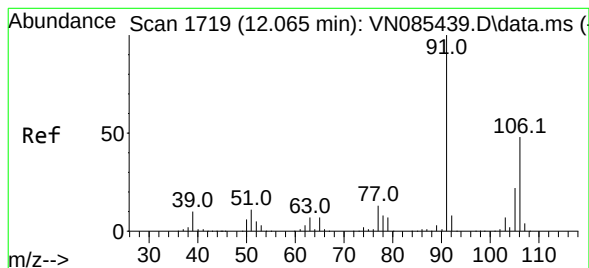
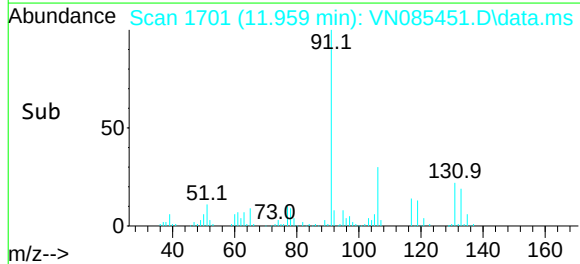
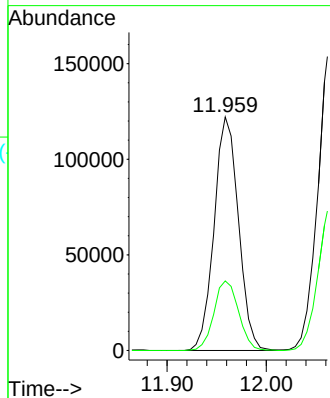
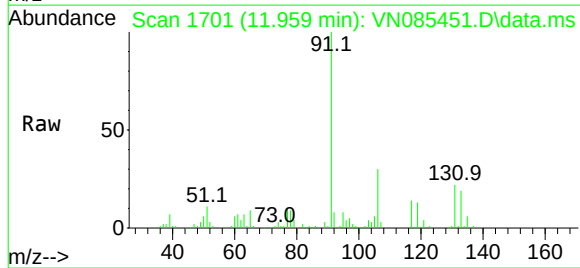
91 100

106 29.8 23.8 35.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025



#68

m/p-Xylenes

Concen: 42.515 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN085451.D

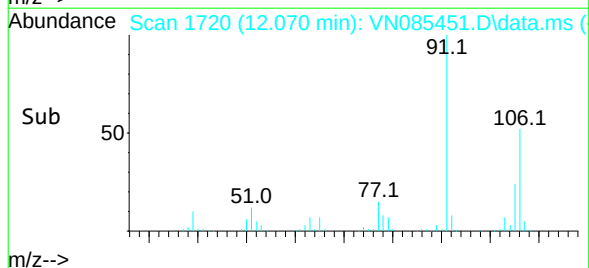
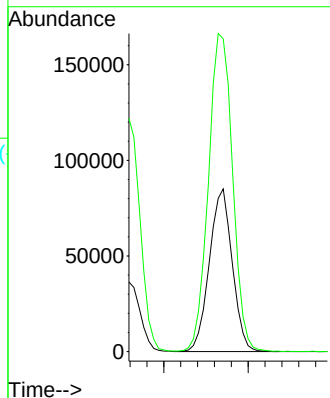
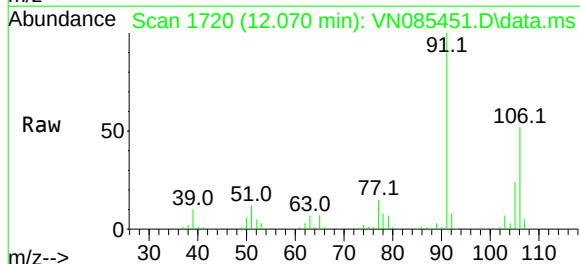
Acq: 15 Jan 2025 11:02

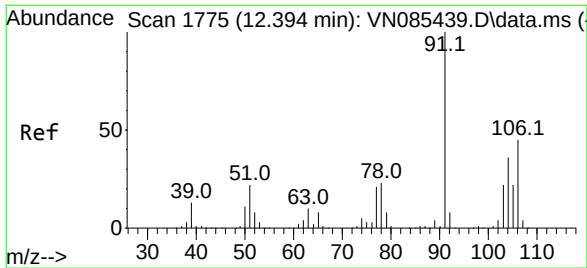
Tgt Ion:106 Resp: 160511

Ion Ratio Lower Upper

106 100

91 206.6 167.7 251.5





#69

o-Xylene

Concen: 20.928 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion:106 Resp: 75509

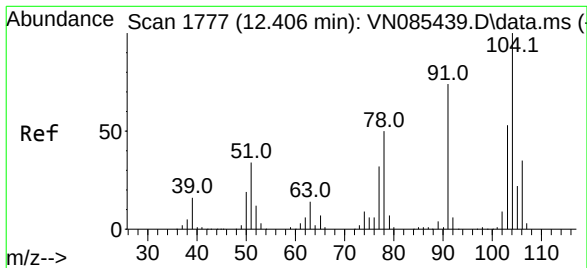
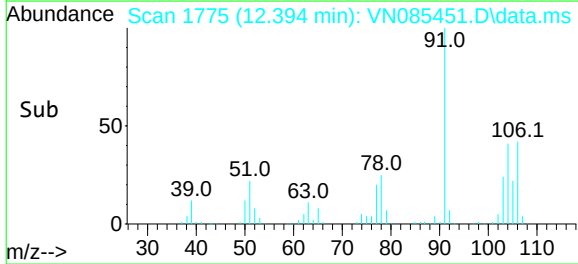
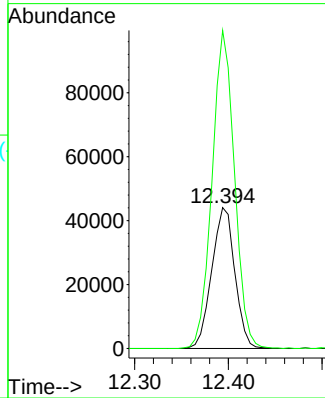
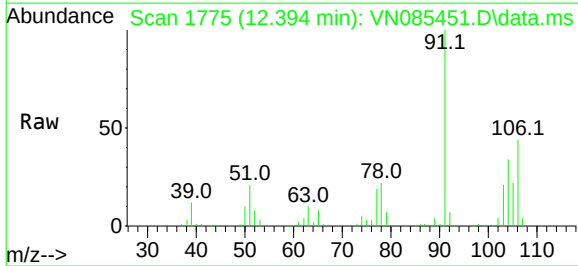
Ion Ratio Lower Upper

106 100

91 219.1 110.4 331.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#70

Styrene

Concen: 20.788 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

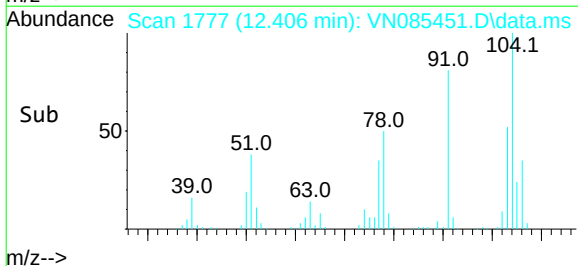
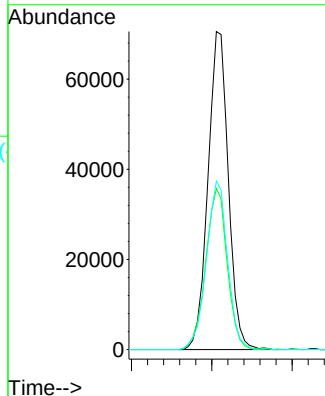
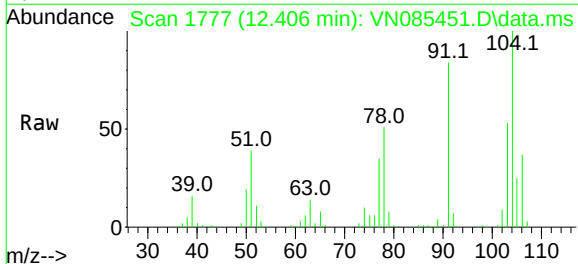
Tgt Ion:104 Resp: 124126

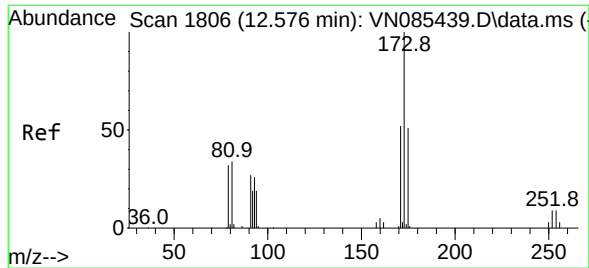
Ion Ratio Lower Upper

104 100

78 53.5 42.5 63.7

103 54.9 43.8 65.8





#71

Bromoform

Concen: 20.643 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion:173 Resp: 34000

Ion Ratio Lower Upper

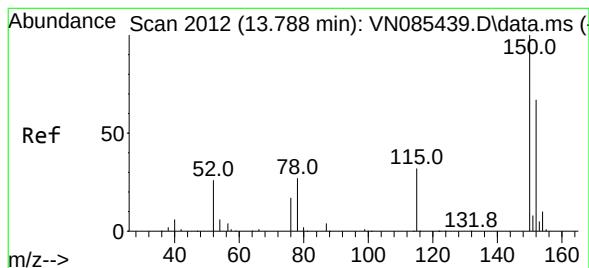
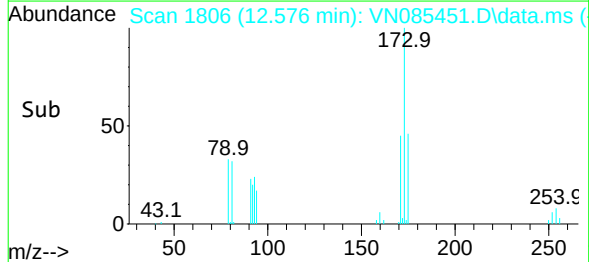
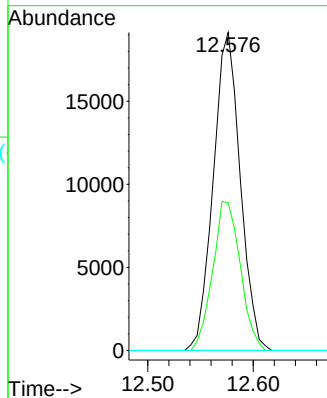
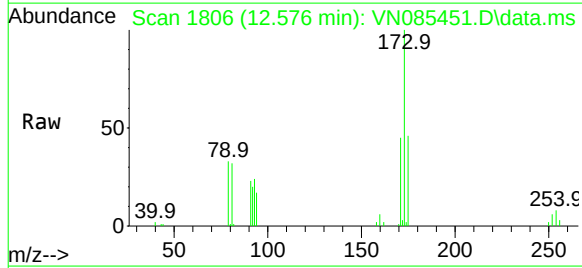
173 100

175 48.0 24.4 73.2

254 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

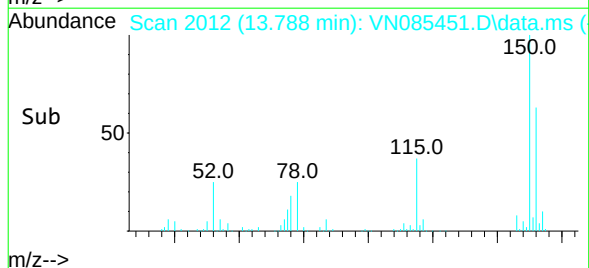
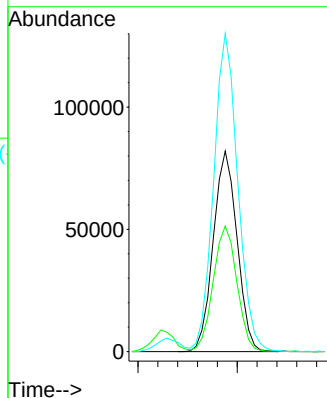
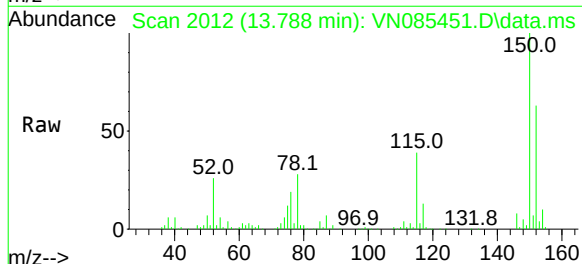
Tgt Ion:152 Resp: 136502

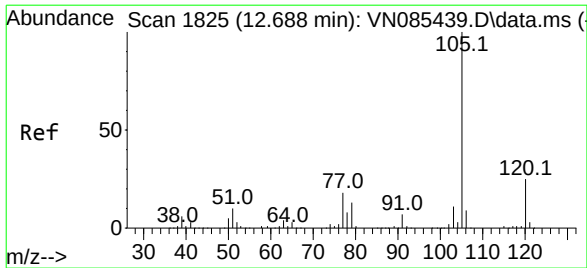
Ion Ratio Lower Upper

152 100

115 62.5 31.1 93.3

150 160.9 0.0 343.6





#73

Isopropylbenzene

Concen: 20.582 ug/l

RT: 12.694 min Scan# 1825

Delta R.T. 0.006 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion: 105 Resp: 189617

Ion Ratio Lower Upper

105 100

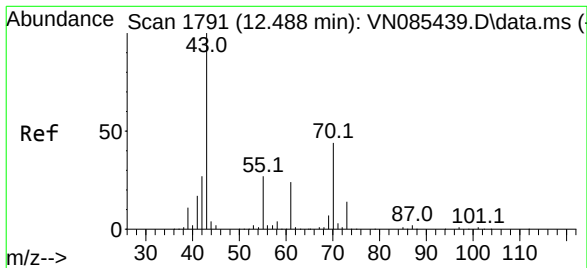
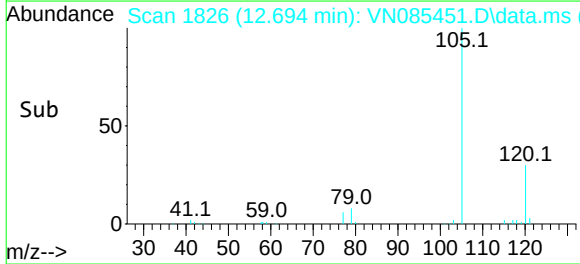
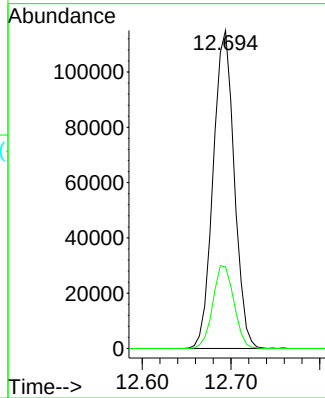
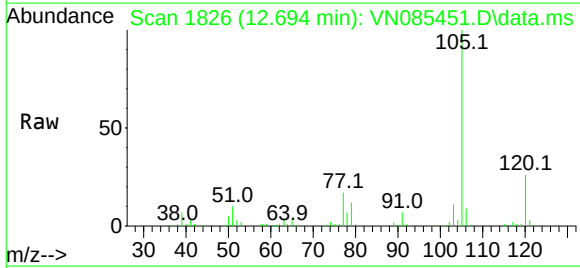
120 26.1 12.8 38.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#74

N-ethyl acetate

Concen: 19.619 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Tgt Ion: 43 Resp: 81241

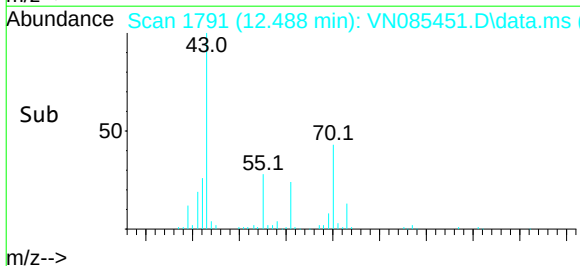
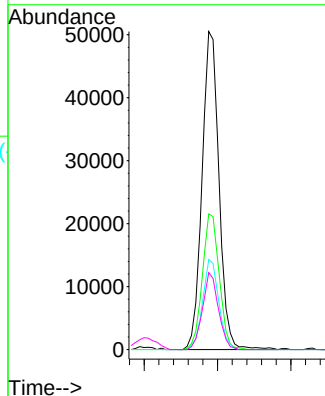
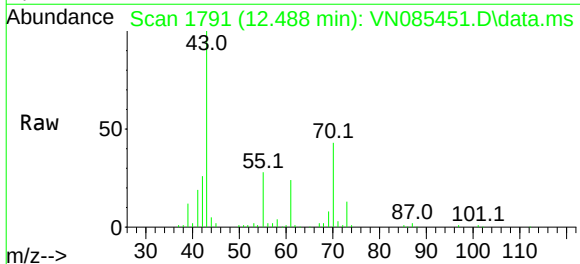
Ion Ratio Lower Upper

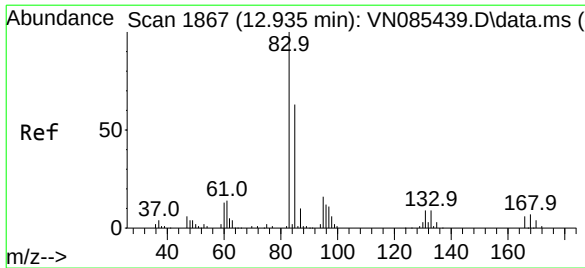
43 100

70 42.3 34.0 51.0

55 26.9 21.4 32.2

61 22.6 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 19.012 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

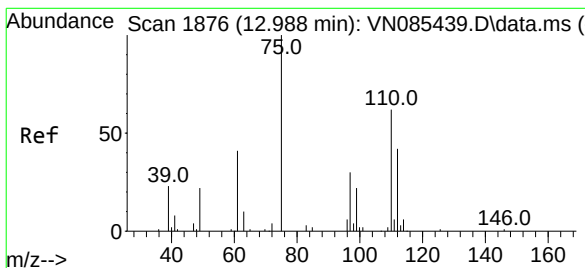
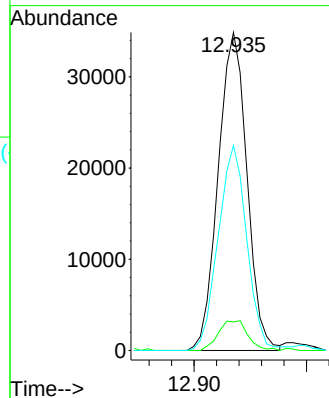
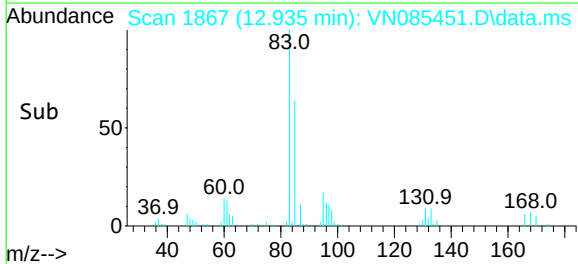
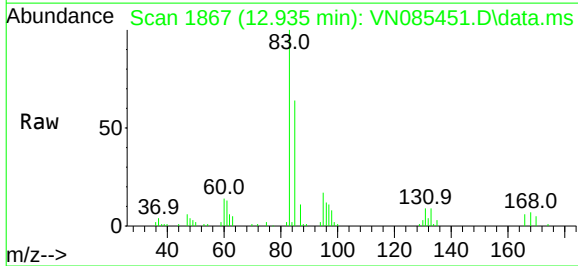
VN0115WBSD01

Tgt Ion:	83	Resp:	61871
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	63.9	32.2	96.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#76

1,2,3-Trichloropropane

Concen: 20.404 ug/l m

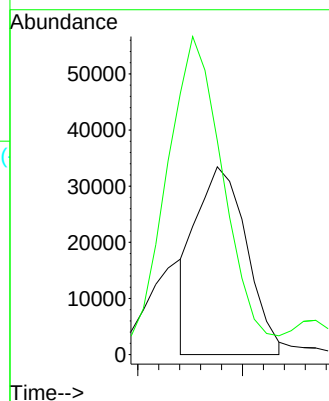
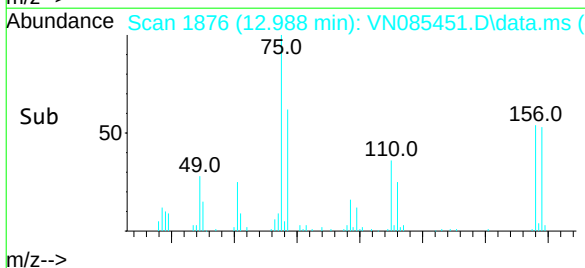
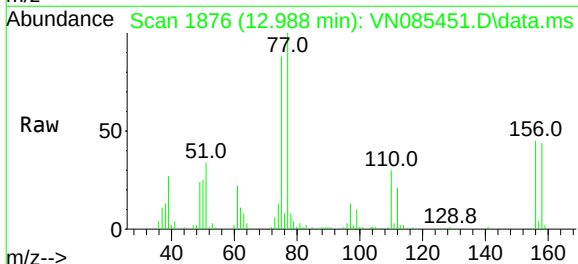
RT: 12.988 min Scan# 1876

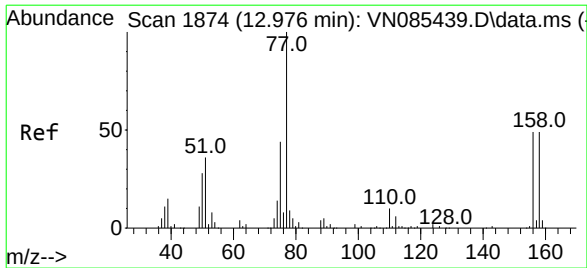
Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Tgt Ion:	75	Resp:	56609
Ion	Ratio	Lower	Upper
75	100		
77	193.4	109.7	329.2





#77

Bromobenzene

Concen: 20.145 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion: 156 Resp: 48489

Ion Ratio Lower Upper

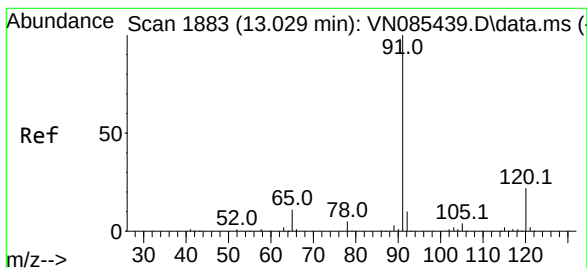
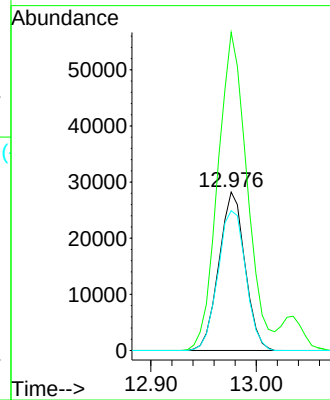
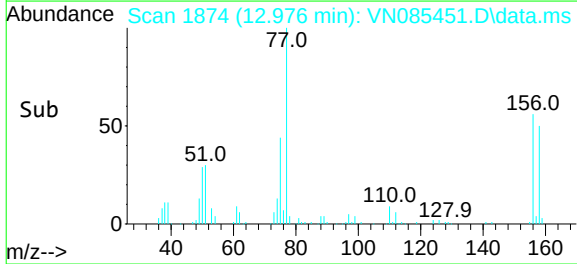
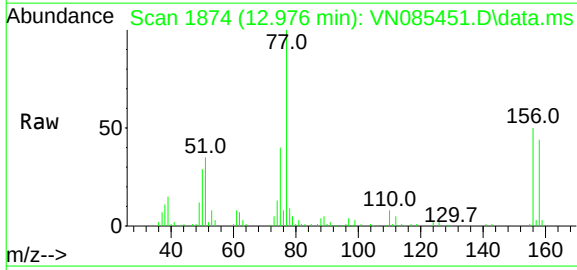
156 100

77 225.8 114.1 342.4

158 94.1 48.9 146.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#78

n-propylbenzene

Concen: 20.981 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.006 min

Lab File: VN085451.D

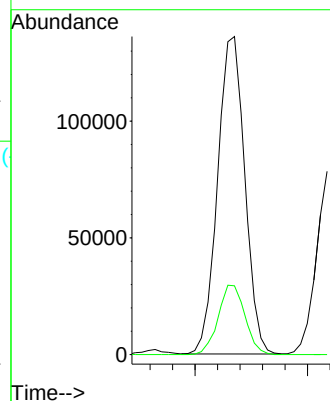
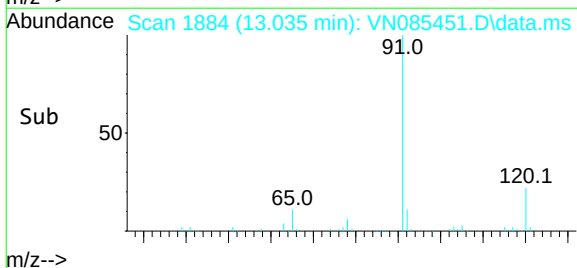
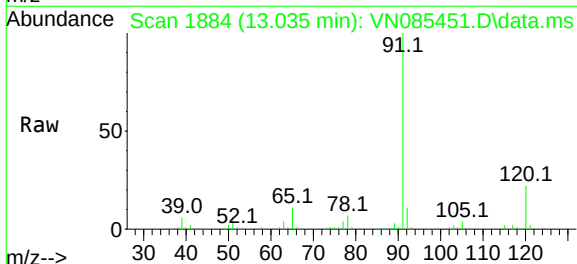
Acq: 15 Jan 2025 11:02

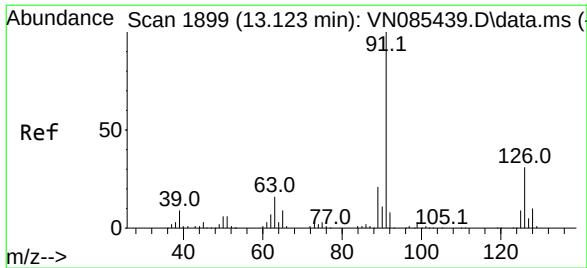
Tgt Ion: 91 Resp: 228827

Ion Ratio Lower Upper

91 100

120 21.5 10.9 32.6





#79

2-Chlorotoluene

Concen: 20.272 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion: 91 Resp: 143092

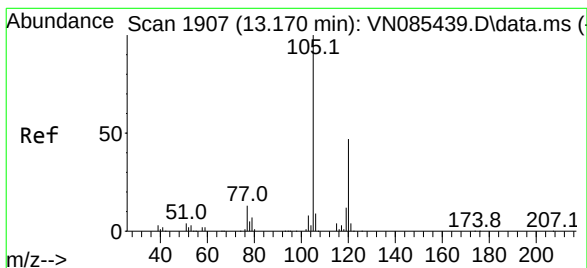
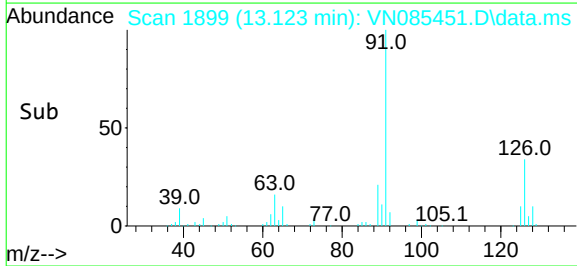
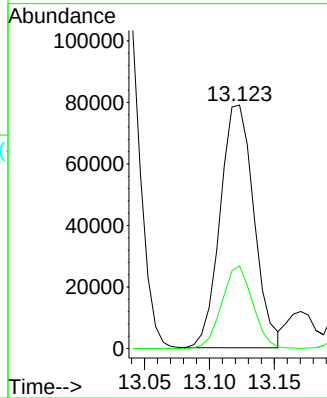
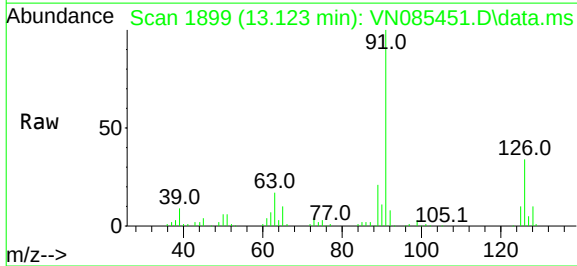
Ion Ratio Lower Upper

91 100

126 31.0 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#80

1,3,5-Trimethylbenzene

Concen: 21.445 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085451.D

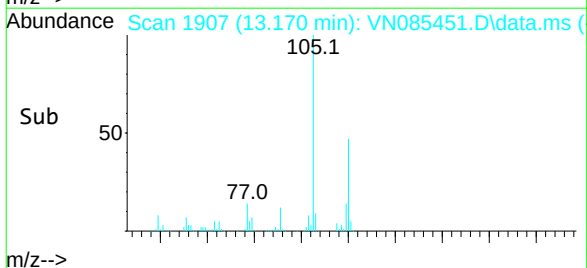
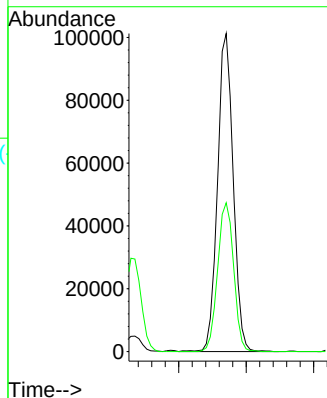
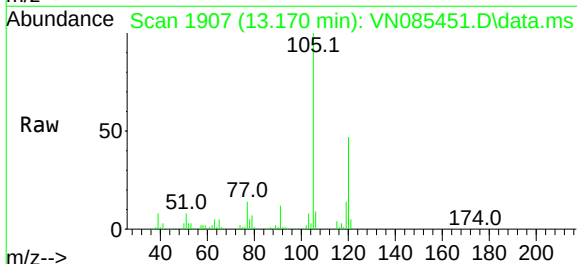
Acq: 15 Jan 2025 11:02

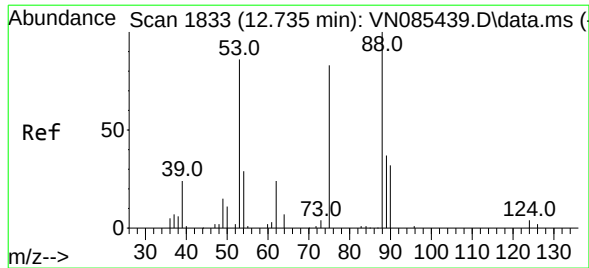
Tgt Ion:105 Resp: 163195

Ion Ratio Lower Upper

105 100

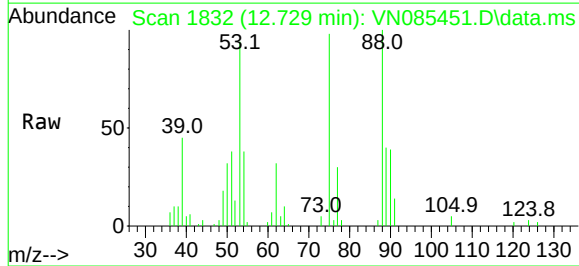
120 47.8 23.9 71.7





#81
trans-1,4-Dichloro-2-butene
Concen: 19.614 ug/l m
RT: 12.729 min Scan# 18
Delta R.T. -0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

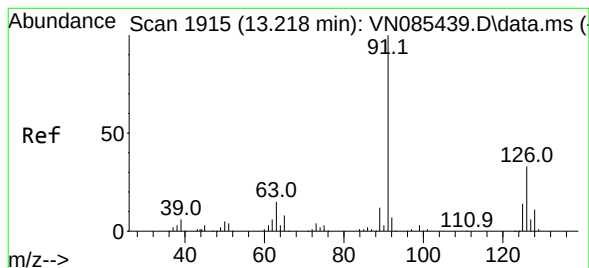
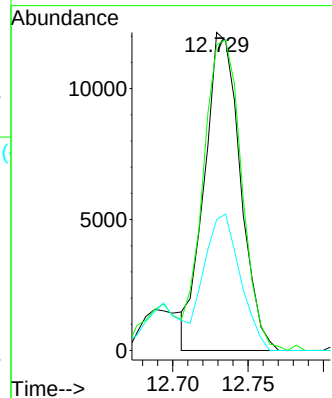
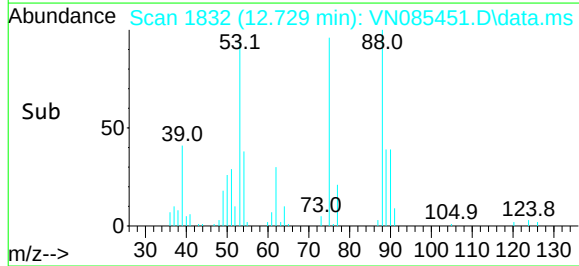
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01



Tgt Ion: 75 Resp: 20113
Ion Ratio Lower Upper
75 100
53 104.2 95.6 143.4
89 42.6 37.0 55.6

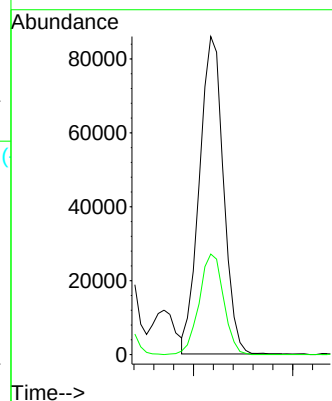
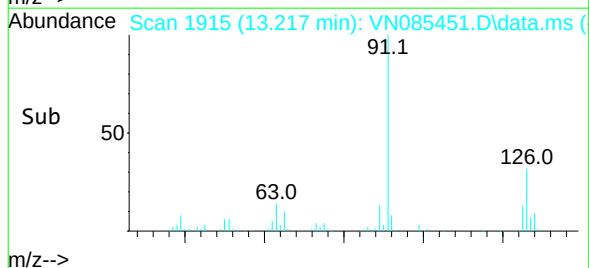
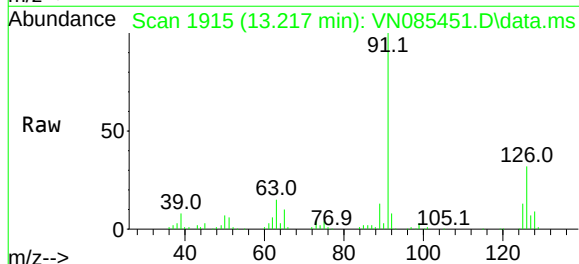
Manual Integrations
APPROVED

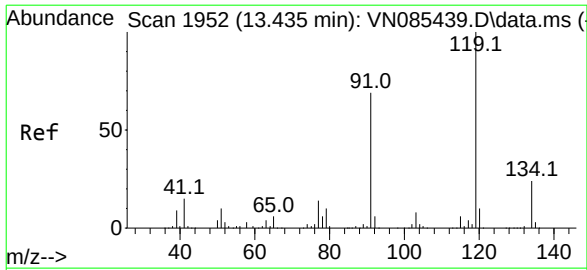
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#82
4-Chlorotoluene
Concen: 20.562 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 91 Resp: 144513
Ion Ratio Lower Upper
91 100
126 32.2 15.9 47.7





#83

tert-Butylbenzene

Concen: 20.501 ug/l

RT: 13.435 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion:119 Resp: 131013

Ion Ratio Lower Upper

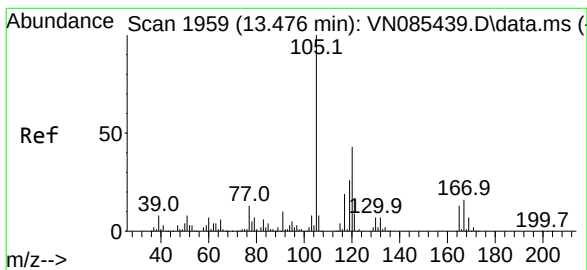
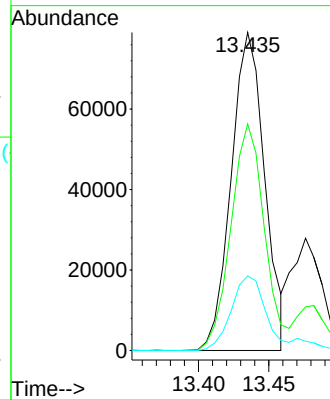
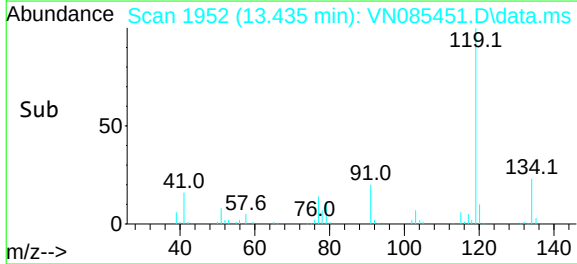
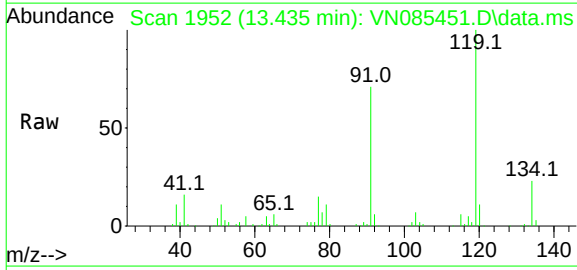
119 100

91 71.6 35.1 105.3

134 24.0 12.0 36.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#84

1,2,4-Trimethylbenzene

Concen: 21.634 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN085451.D

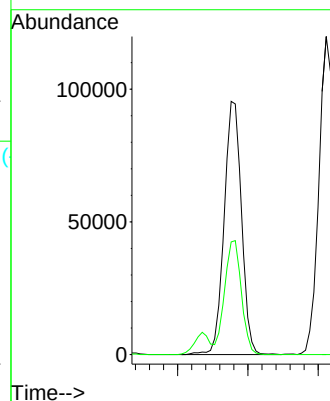
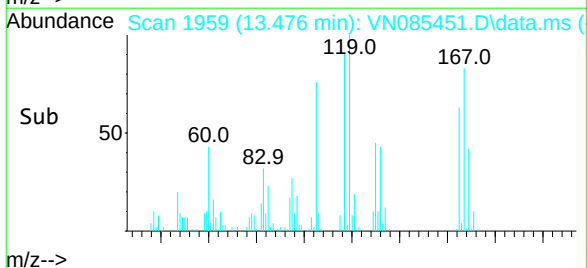
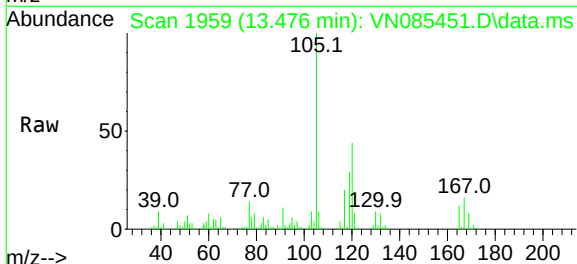
Acq: 15 Jan 2025 11:02

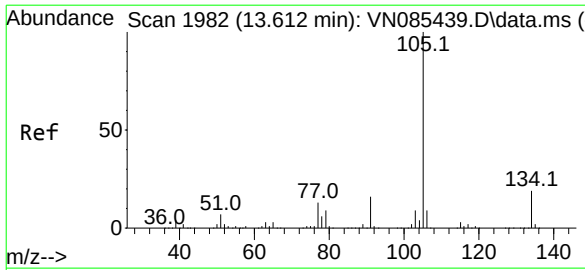
Tgt Ion:105 Resp: 164079

Ion Ratio Lower Upper

105 100

120 43.3 21.6 65.0





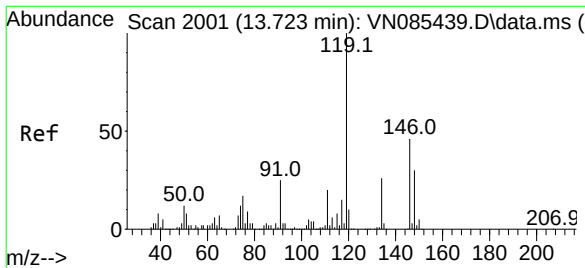
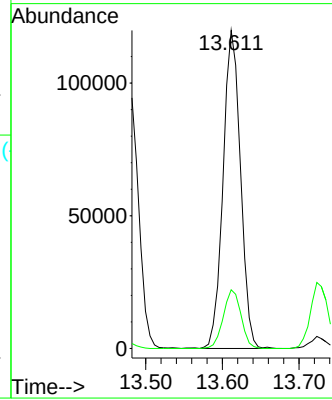
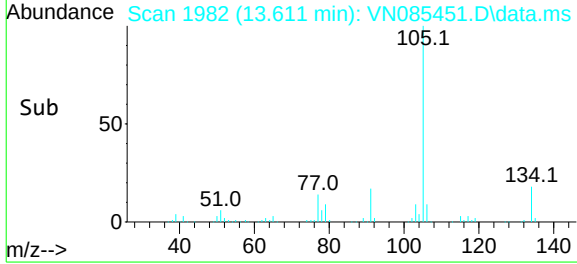
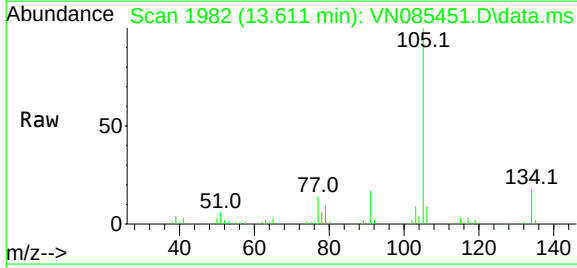
#85
sec-Butylbenzene
Concen: 21.398 ug/l
RT: 13.611 min Scan# 1982
Delta R.T. -0.001 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion:105 Resp: 189519
Ion Ratio Lower Upper
105 100
134 18.7 9.7 28.9

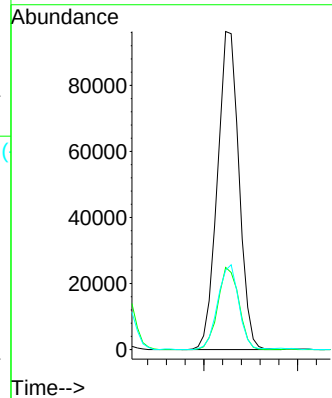
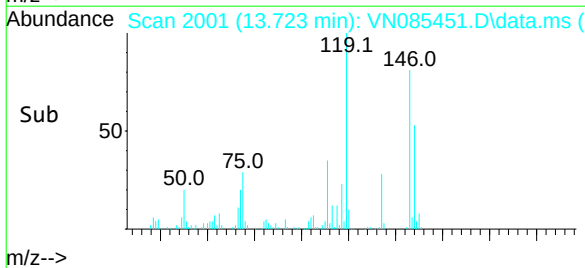
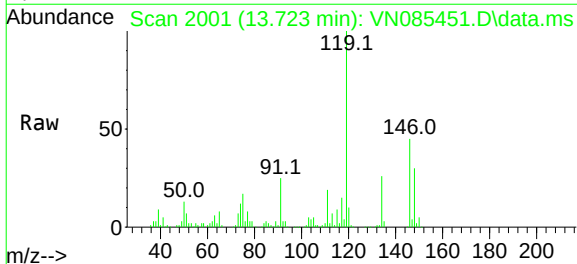
Manual Integrations
APPROVED

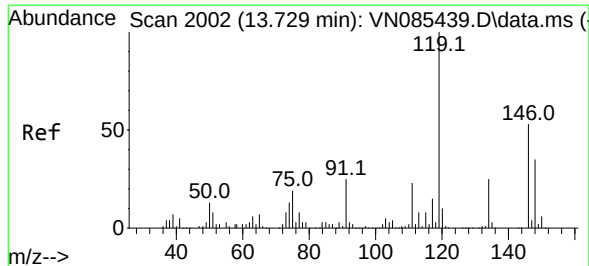
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#86
p-Isopropyltoluene
Concen: 20.798 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:119 Resp: 153867
Ion Ratio Lower Upper
119 100
134 25.3 12.7 38.0
91 26.0 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 20.107 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085451.D

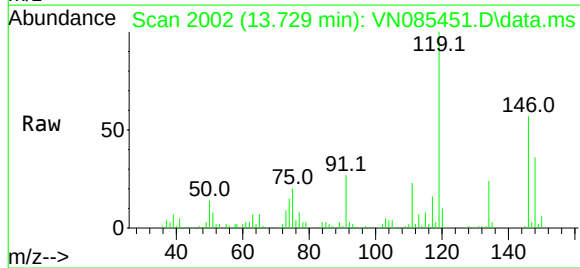
Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01



Tgt Ion:146 Resp: 89126

Ion Ratio Lower Upper

146 100

111 42.0 21.4 64.3

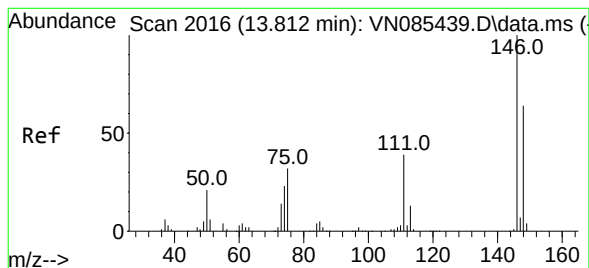
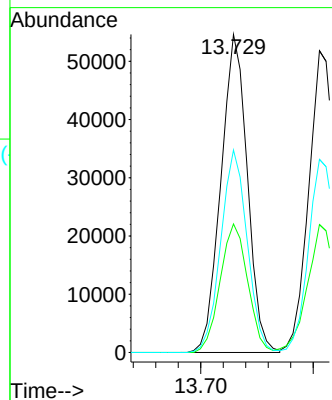
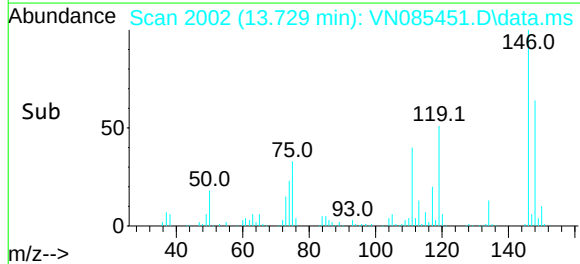
148 63.8 32.3 96.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#88

1,4-Dichlorobenzene

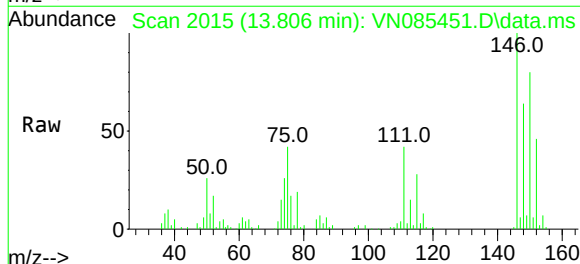
Concen: 19.057 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. -0.006 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02



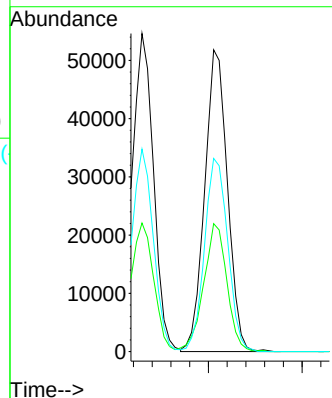
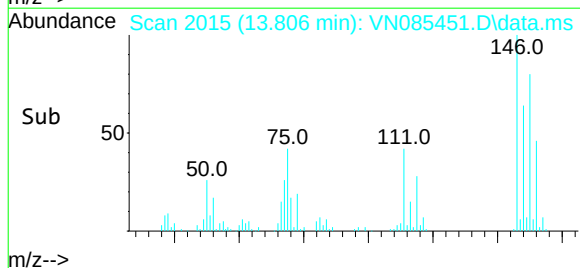
Tgt Ion:146 Resp: 87559

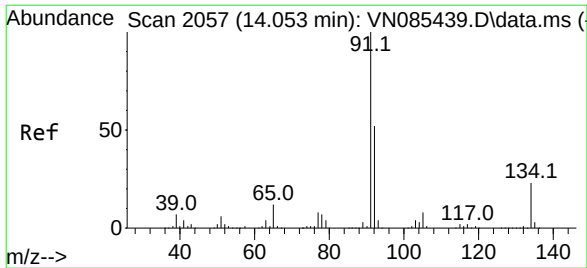
Ion Ratio Lower Upper

146 100

111 43.5 21.3 63.7

148 65.5 32.4 97.0





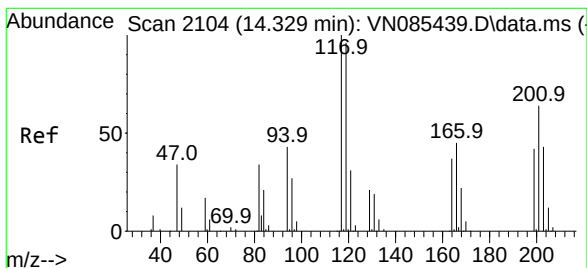
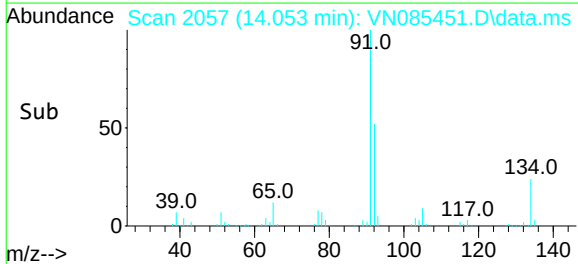
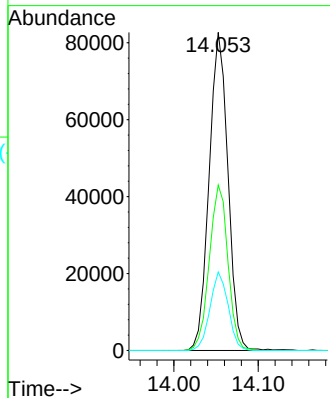
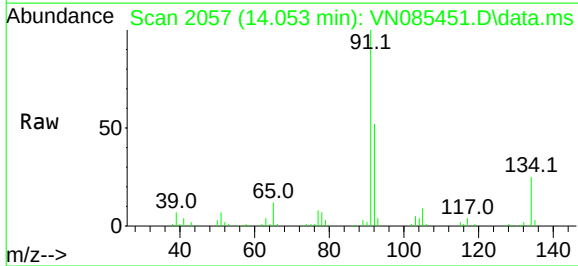
#89
n-Butylbenzene
Concen: 20.183 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion:	91	Resp:	128246
Ion Ratio	Lower	Upper	
91	100		
92	51.4	25.8	77.3
134	23.8	11.7	35.1

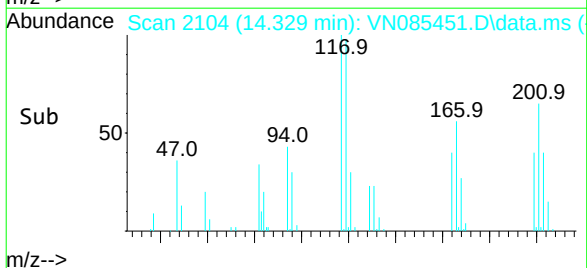
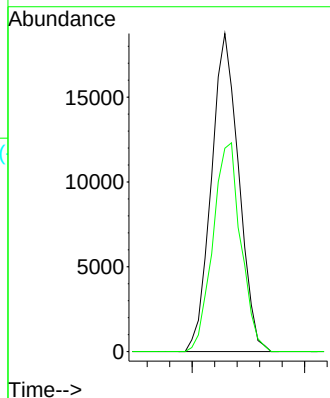
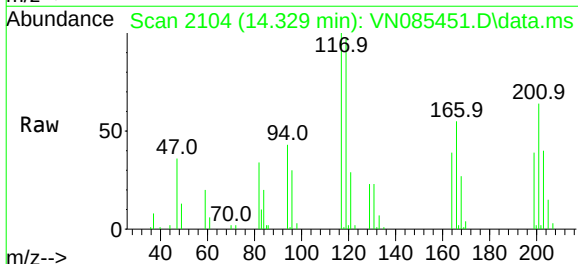
Manual Integrations
APPROVED

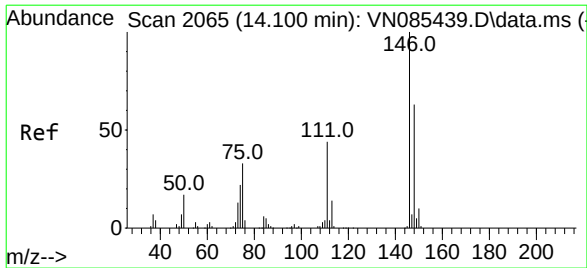
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#90
Hexachloroethane
Concen: 18.820 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

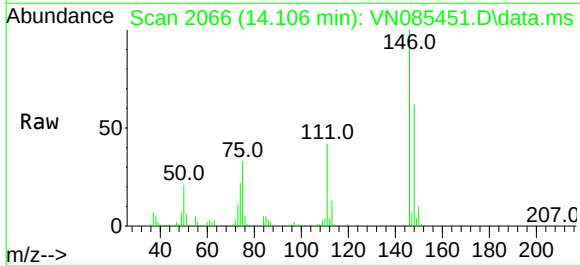
Tgt Ion:	117	Resp:	31733
Ion Ratio	Lower	Upper	
117	100		
201	67.1	33.7	101.0





#91
1,2-Dichlorobenzene
Concen: 18.967 ug/l
RT: 14.106 min Scan# 2065
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

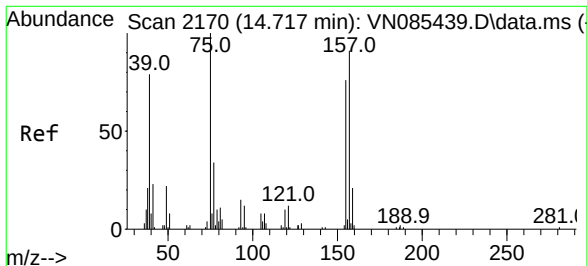
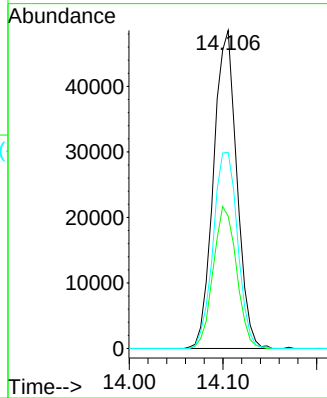
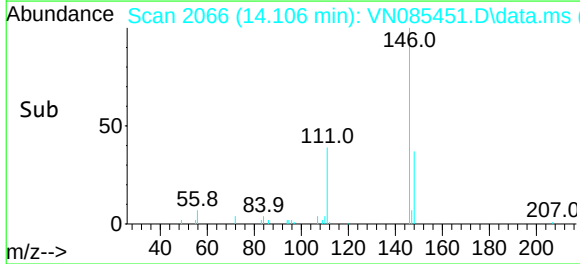
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01



Tgt Ion:146 Resp: 83864
Ion Ratio Lower Upper
146 100
111 44.6 21.7 65.1
148 64.9 31.4 94.2

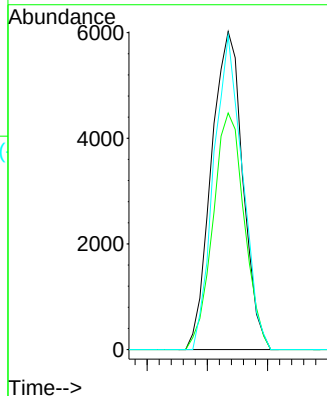
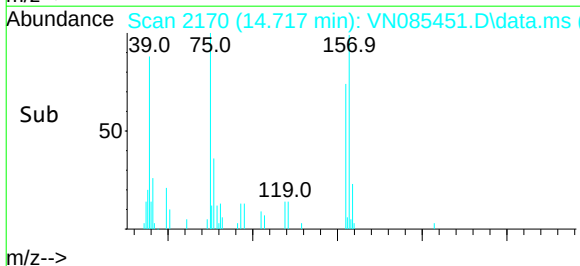
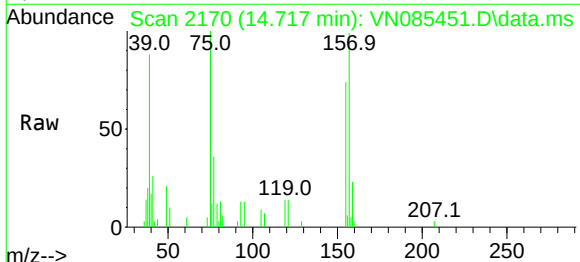
Manual Integrations
APPROVED

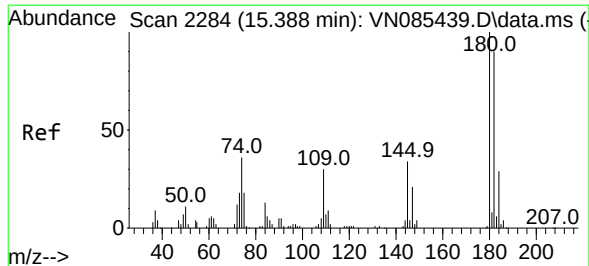
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 18.416 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 75 Resp: 10944
Ion Ratio Lower Upper
75 100
155 74.0 36.4 109.2
157 90.2 45.4 136.1





#93

1,2,4-Trichlorobenzene

Concen: 19.248 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion:180 Resp: 39555

Ion Ratio Lower Upper

180 100

182 96.1 46.8 140.3

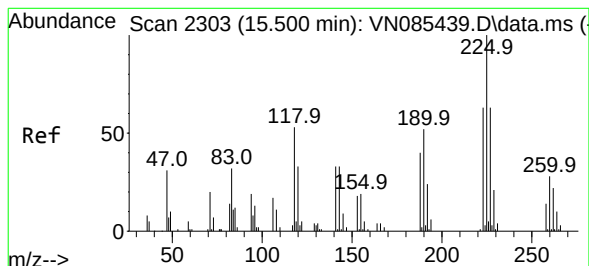
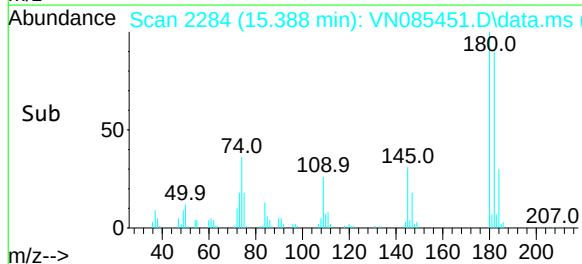
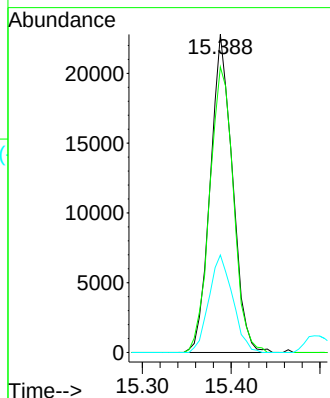
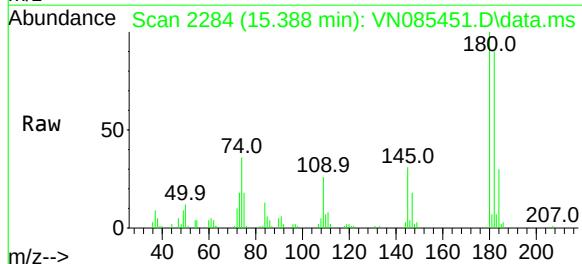
145 32.8 16.0 48.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#94

Hexachlorobutadiene

Concen: 18.872 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

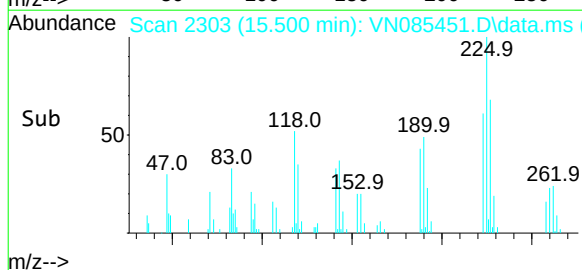
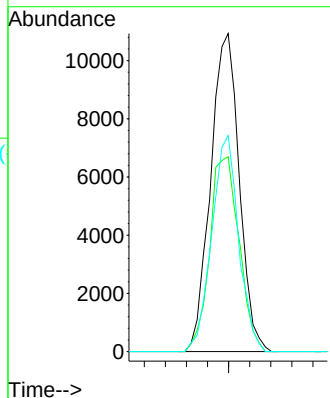
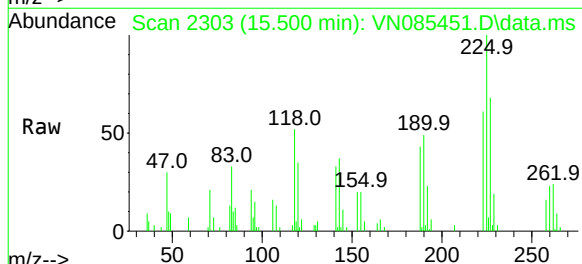
Tgt Ion:225 Resp: 20590

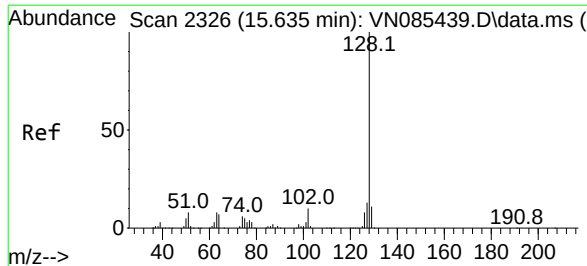
Ion Ratio Lower Upper

225 100

223 62.9 30.7 92.1

227 63.8 30.9 92.5





#95

Naphthalene

Concen: 17.334 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

Tgt Ion:128 Resp: 106293

Ion Ratio Lower Upper

128 100

127 13.4 10.6 16.0

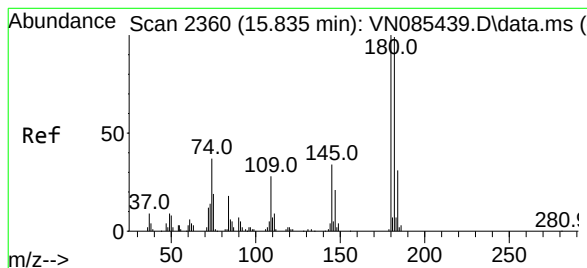
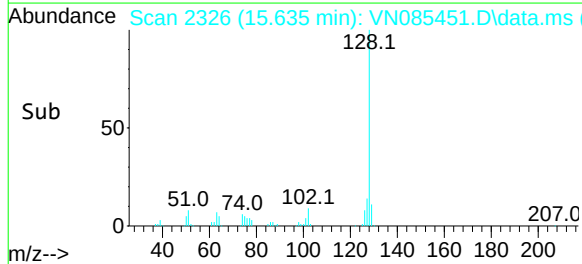
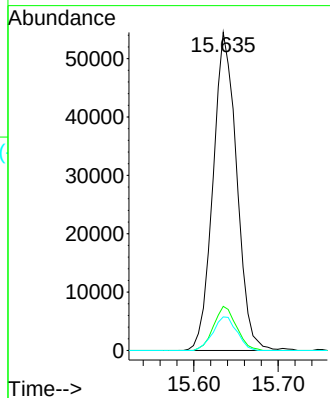
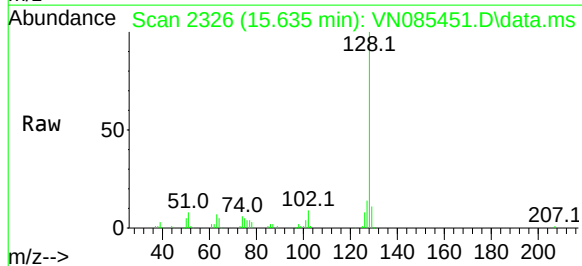
129 10.7 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#96

1,2,3-Trichlorobenzene

Concen: 19.221 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

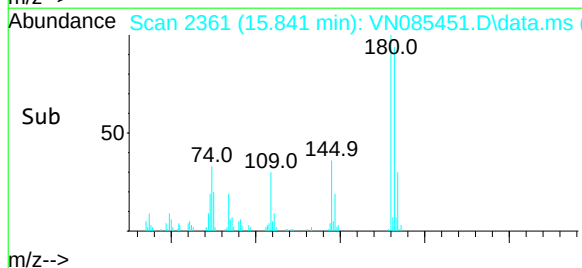
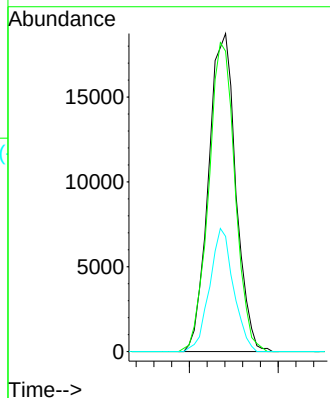
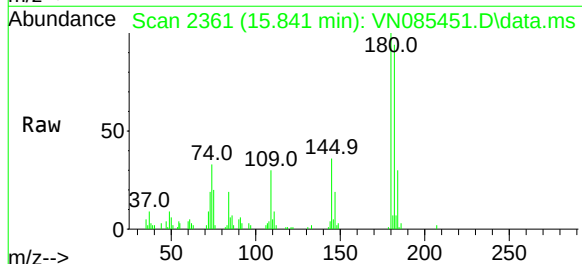
Tgt Ion:180 Resp: 39966

Ion Ratio Lower Upper

180 100

182 94.0 47.4 142.2

145 33.9 16.9 50.7



Manual Integration Report

Sequence:	VN011425	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN085438.D	1,2,3-Trichloropropane	JOHN	1/15/2025 9:31:09 AM	MMDadoda	1/15/2025 12:55:19 PM	Peak Integrated by Software
VSTDICCC050	VN085439.D	1,2,3-Trichloropropane	JOHN	1/15/2025 9:31:14 AM	MMDadoda	1/15/2025 12:55:22 PM	Peak Integrated by Software
VSTDICC020	VN085440.D	1,2,3-Trichloropropane	JOHN	1/15/2025 9:31:19 AM	MMDadoda	1/15/2025 12:55:25 PM	Peak Integrated by Software
VSTDICC020	VN085440.D	trans-1,4-Dichloro-2-but ene	JOHN	1/15/2025 9:31:19 AM	MMDadoda	1/15/2025 12:55:25 PM	Peak Integrated by Software
VSTDICC020	VN085440.D	Vinyl Acetate	JOHN	1/15/2025 9:31:19 AM	MMDadoda	1/15/2025 12:55:25 PM	Peak Integrated by Software
VSTDICC010	VN085441.D	1,2,3-Trichloropropane	JOHN	1/15/2025 9:31:23 AM	MMDadoda	1/15/2025 12:55:29 PM	Peak Integrated by Software
VSTDICC005	VN085442.D	1,2,3-Trichloropropane	JOHN	1/15/2025 9:31:28 AM	MMDadoda	1/15/2025 12:55:34 PM	Peak Integrated by Software
VSTDICC005	VN085442.D	Ethyl Acetate	JOHN	1/15/2025 9:31:28 AM	MMDadoda	1/15/2025 12:55:34 PM	Peak Integrated by Software
VSTDICC005	VN085442.D	Vinyl Acetate	JOHN	1/15/2025 9:31:28 AM	MMDadoda	1/15/2025 12:55:34 PM	Peak Integrated by Software
VSTDICC001	VN085443.D	1,1,2-Trichlorotrifluoroet hane	JOHN	1/15/2025 9:31:32 AM	MMDadoda	1/15/2025 12:55:39 PM	Peak Integrated by Software
VSTDICC001	VN085443.D	1,1-Dichloroethane	JOHN	1/15/2025 9:31:32 AM	MMDadoda	1/15/2025 12:55:39 PM	Peak Integrated by Software
VSTDICC001	VN085443.D	1,2,3-Trichloropropane	JOHN	1/15/2025 9:31:32 AM	MMDadoda	1/15/2025 12:55:39 PM	Peak Integrated by Software
VSTDICC001	VN085443.D	1,4-Dichlorobenzene	JOHN	1/15/2025 9:31:32 AM	MMDadoda	1/15/2025 12:55:39 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VN011425

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN085443.D	2-Butanone	JOHN	1/15/2025 9:31:32 AM	MMDadoda	1/15/2025 12:55:39 PM	Peak Integrated by Software
VSTDICC001	VN085443.D	Ethyl Acetate	JOHN	1/15/2025 9:31:32 AM	MMDadoda	1/15/2025 12:55:39 PM	Peak Integrated by Software
VSTDICC001	VN085443.D	Vinyl Acetate	JOHN	1/15/2025 9:31:32 AM	MMDadoda	1/15/2025 12:55:39 PM	Peak Integrated by Software
VSTDICV050	VN085445.D	1,2,3-Trichloropropane	JOHN	1/15/2025 9:31:37 AM	MMDadoda	1/15/2025 12:55:43 PM	Peak Integrated by Software
VSTDICV050	VN085445.D	trans-1,4-Dichloro-2-butene	JOHN	1/15/2025 9:31:37 AM	MMDadoda	1/15/2025 12:55:43 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN011525	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN085447.D	1,2,3-Trichloropropane	MMDADO DA	1/16/2025 7:34:24 AM	SAM	1/16/2025 7:37:05 AM	Peak Integrated by Software
VN0115WBS01	VN085450.D	1,2,3-Trichloropropane	MMDADO DA	1/16/2025 7:34:27 AM	SAM	1/16/2025 7:37:06 AM	Peak Integrated by Software
VN0115WBS01	VN085450.D	trans-1,4-Dichloro-2-but ene	MMDADO DA	1/16/2025 7:34:27 AM	SAM	1/16/2025 7:37:06 AM	Peak Integrated by Software
VN0115WBSD0 1	VN085451.D	1,2,3-Trichloropropane	MMDADO DA	1/16/2025 7:34:29 AM	SAM	1/16/2025 7:37:08 AM	Peak Integrated by Software
VN0115WBSD0 1	VN085451.D	trans-1,4-Dichloro-2-but ene	MMDADO DA	1/16/2025 7:34:29 AM	SAM	1/16/2025 7:37:08 AM	Peak Integrated by Software
VN0115WBSD0 1	VN085451.D	Vinyl Acetate	MMDADO DA	1/16/2025 7:34:29 AM	SAM	1/16/2025 7:37:08 AM	Peak Integrated by Software
VSTDCCC050	VN085463.D	1,2,3-Trichloropropane	MMDADO DA	1/16/2025 7:34:34 AM	SAM	1/16/2025 7:37:13 AM	Peak Integrated by Software
VSTDCCC050	VN085463.D	trans-1,4-Dichloro-2-but ene	MMDADO DA	1/16/2025 7:34:34 AM	SAM	1/16/2025 7:37:13 AM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN011425

Review By	John Carlone	Review On	1/15/2025 9:31:51 AM
Supervise By	Mahesh Dadoda	Supervise On	1/15/2025 12:55:51 PM
SubDirectory	VN011425	HP Acquire Method	HP Processing Method 82N011425W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP132529		
Initial Calibration Stds	VP132530,VP132531,VP132532,VP132533,VP132534,VP132535		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP132544		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085437.D	14 Jan 2025 14:22	JC\MD	Ok
2	VSTDICC100	VN085438.D	14 Jan 2025 14:56	JC\MD	Ok,M
3	VSTDICCC050	VN085439.D	14 Jan 2025 15:19	JC\MD	Ok,M
4	VSTDICC020	VN085440.D	14 Jan 2025 15:43	JC\MD	Ok,M
5	VSTDICC010	VN085441.D	14 Jan 2025 16:07	JC\MD	Ok,M
6	VSTDICC005	VN085442.D	14 Jan 2025 16:31	JC\MD	Ok,M
7	VSTDICC001	VN085443.D	14 Jan 2025 17:19	JC\MD	Ok,M
8	IBLK	VN085444.D	14 Jan 2025 17:42	JC\MD	Ok
9	VSTDICV050	VN085445.D	14 Jan 2025 18:06	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN011525

Review By	Mahesh Dadoda	Review On	1/16/2025 7:34:37 AM
Supervise By	Semsettin Yesilyurt	Supervise On	1/16/2025 7:37:16 AM
SubDirectory	VN011525	HP Acquire Method	HP Processing Method 82N011425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP132547		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP132548,VP132549		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085446.D	15 Jan 2025 08:25	JC\MD	Ok
2	VSTDCCC050	VN085447.D	15 Jan 2025 09:03	JC\MD	Ok,M
3	VN0115MBL01	VN085448.D	15 Jan 2025 09:41	JC\MD	Ok
4	VN0115WBL01	VN085449.D	15 Jan 2025 10:05	JC\MD	Ok
5	VN0115WBS01	VN085450.D	15 Jan 2025 10:29	JC\MD	Ok,M
6	VN0115WBSD01	VN085451.D	15 Jan 2025 11:02	JC\MD	Ok,M
7	Q1062-04	VN085452.D	15 Jan 2025 11:26	JC\MD	Ok
8	Q1062-01	VN085453.D	15 Jan 2025 11:50	JC\MD	Ok
9	Q1062-03	VN085454.D	15 Jan 2025 12:14	JC\MD	Ok
10	Q1062-02	VN085455.D	15 Jan 2025 12:37	JC\MD	Ok
11	PB166029TB	VN085456.D	15 Jan 2025 13:01	JC\MD	Ok
12	PB166029ZHE#01	VN085457.D	15 Jan 2025 13:25	JC\MD	Ok
13	PB166029ZHE#02	VN085458.D	15 Jan 2025 13:49	JC\MD	Ok
14	PB166029ZHE#03	VN085459.D	15 Jan 2025 14:13	JC\MD	Ok
15	Q1069-02	VN085460.D	15 Jan 2025 14:37	JC\MD	ReRun
16	Q1074-02	VN085461.D	15 Jan 2025 15:00	JC\MD	Ok
17	Q1076-02	VN085462.D	15 Jan 2025 15:24	JC\MD	Ok,M
18	VSTDCCC050	VN085463.D	15 Jan 2025 15:58	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN011425

Review By	John Carlone	Review On	1/15/2025 9:31:51 AM
Supervise By	Maresh Dadoda	Supervise On	1/15/2025 12:55:51 PM
SubDirectory	VN011425	HP Acquire Method	HP Processing Method 82N011425W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP132529 VP132530,VP132531,VP132532,VP132533,VP132534,VP132535 VP132544

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085437.D	14 Jan 2025 14:22		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN085438.D	14 Jan 2025 14:56		JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN085439.D	14 Jan 2025 15:19	Comp.#56 is on Linear Regression	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN085440.D	14 Jan 2025 15:43	Comp.#86 is on Quadratic Regression	JC\MD	Ok,M
5	VSTDICC010	VSTDICC010	VN085441.D	14 Jan 2025 16:07		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN085442.D	14 Jan 2025 16:31		JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN085443.D	14 Jan 2025 17:19		JC\MD	Ok,M
8	IBLK	IBLK	VN085444.D	14 Jan 2025 17:42		JC\MD	Ok
9	VSTDICV050	ICVVN011425	VN085445.D	14 Jan 2025 18:06		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN011525

Review By	Maresh Dadoda	Review On	1/16/2025 7:34:37 AM
Supervise By	Semsettin Yesilyurt	Supervise On	1/16/2025 7:37:16 AM
SubDirectory	VN011525	HP Acquire Method	HP Processing Method 82N011425W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP132547
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP132548,VP132549

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085446.D	15 Jan 2025 08:25		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN085447.D	15 Jan 2025 09:03	V13516	JC\MD	Ok,M
3	VN0115MBL01	VN0115MBL01	VN085448.D	15 Jan 2025 09:41		JC\MD	Ok
4	VN0115WBL01	VN0115WBL01	VN085449.D	15 Jan 2025 10:05		JC\MD	Ok
5	VN0115WBS01	VN0115WBS01	VN085450.D	15 Jan 2025 10:29		JC\MD	Ok,M
6	VN0115WBSD01	VN0115WBSD01	VN085451.D	15 Jan 2025 11:02		JC\MD	Ok,M
7	Q1062-04	BP-VPB-190A-GW-898	VN085452.D	15 Jan 2025 11:26	vial B pH<2	JC\MD	Ok
8	Q1062-01	BP-VPB-190A-TB-2025	VN085453.D	15 Jan 2025 11:50	vial B pH<2 TB	JC\MD	Ok
9	Q1062-03	BP-VPB-190A-EB-2025	VN085454.D	15 Jan 2025 12:14	vial B pH<2 EB	JC\MD	Ok
10	Q1062-02	VPB190A-HYD-202501	VN085455.D	15 Jan 2025 12:37	vial B pH<2	JC\MD	Ok
11	PB166029TB	PB166029TB	VN085456.D	15 Jan 2025 13:01		JC\MD	Ok
12	PB166029ZHE#01	PB166029ZHE#01	VN085457.D	15 Jan 2025 13:25		JC\MD	Ok
13	PB166029ZHE#02	PB166029ZHE#02	VN085458.D	15 Jan 2025 13:49		JC\MD	Ok
14	PB166029ZHE#03	PB166029ZHE#03	VN085459.D	15 Jan 2025 14:13		JC\MD	Ok
15	Q1069-02	RW7B-CARBON-20250	VN085460.D	15 Jan 2025 14:37	vial A pH#6.0 Surrogate Fail	JC\MD	ReRun
16	Q1074-02	HACKENSACK-DGA	VN085461.D	15 Jan 2025 15:00	vial A pH#5.0	JC\MD	Ok
17	Q1076-02	ARS20-0006	VN085462.D	15 Jan 2025 15:24	vial A pH#5.0	JC\MD	Ok,M
18	VSTDCCC050	VSTDCCC050EC	VN085463.D	15 Jan 2025 15:58		JC\MD	Ok,M

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN011525

Review By	Mahesh Dadoda	Review On	1/16/2025 7:34:37 AM
Supervise By	Semsettin Yesilyurt	Supervise On	1/16/2025 7:37:16 AM
SubDirectory	VN011525	HP Acquire Method	HP Processing Method 82N011425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP132547		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP132548,VP132549		

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q1062

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: VN011525,

Standard ID :

VP130430,VP131746,VP131767,VP132005,VP132035,VP132096,VP132468,VP132547,VP132548,VP132549,

Chemical ID :

V13391,V13445,V13457,V13460,V13465,V13466,V13707,V13806,V14020,V14021,V14105,V14106,V14145,V14152,V14154,V14173,V14174,V14192,V14194,V14201,V14289,V14434,V14437,V14614,V14627,V14630,V14631,V14632,V14633,V14830,V14831,V14832,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	VP130430	09/20/2024	02/28/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								09/26/2024

FROM 0.40000ml of V13707 + 24.60000ml of V14145 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
247	8260 Internal Standard, 250PPM	VP131746	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								11/23/2024

FROM 0.50000ml of V14289 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
218	BFB, 25PPM	VP131767	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								11/27/2024

FROM 0.50000ml of V13391 + 49.50000ml of V14154 = 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>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP132005	12/09/2024	01/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/12/2024

FROM 0.40000ml of V13445 + 1.00000ml of V13806 + 1.00000ml of V14020 + 1.00000ml of V14021 + 1.00000ml of V14105 + 1.00000ml of V14106 + 1.00000ml of V14173 + 1.00000ml of V14174 + 1.00000ml of V14194 + 1.00000ml of V14434 + 1.00000ml of V14437 + 1.50000ml of V14192 + 1.50000ml of V14201 + 10.60000ml of V14152 = 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>
1810	8260 Working Std(2-CVE)-800ppm	VP132035	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024
<u>FROM</u> 1.00000ml of V14630 + 1.00000ml of V14631 + 1.00000ml of V14632 + 1.00000ml of V14633 + 46.00000ml of V14614 = 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>
719	8260 Working STD (BCM)-First source, 400PPM	VP132096	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024
<u>FROM</u> 1.00000ml of V13465 + 1.00000ml of V13466 + 1.50000ml of V13457 + 1.50000ml of V13460 + 20.00000ml of V14614 = 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	VP132468	01/08/2025	02/07/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								01/17/2025

FROM 1.00000ml of V14832 + 1.50000ml of V14830 + 1.50000ml of V14831 + 21.00000ml of V14627 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
589	BFB TUNE CHECK	VP132547	01/15/2025	01/16/2025	John Carlone	None	None	Maresh Dadoda
								01/17/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = 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	VP132548	01/15/2025	01/16/2025	John Carlone	None	None	Mahesh Dadoda 01/17/2025
<u>FROM</u>	39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP132005 + 0.01250ml of VP132035 + 0.01250ml of VP132468 = 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	VP132549	01/15/2025	01/16/2025	John Carlone	None	None	Mahesh Dadoda 01/17/2025
<u>FROM</u> 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP132005 + 0.01250ml of VP132035 + 0.01250ml of VP132468 = Final Quantity: 40.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0181905	02/28/2025	11/26/2024 / SAM	01/23/2023 / SAM	V13445

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	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13457

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	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13460

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	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13465

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	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13466

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	06/10/2025	06/10/2024 / SAM	04/12/2023 / SAM	V13707

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	A0194279	03/16/2025	09/16/2024 / SAM	05/31/2023 / SAM	V13806

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)	032922	03/29/2025	11/26/2024 / SAM	11/22/2023 / SAM	V14020

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)	032922	03/29/2025	11/26/2024 / SAM	11/22/2023 / SAM	V14021

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	A0205179	05/26/2025	11/26/2024 / SAM	12/22/2023 / SAM	V14105

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	A0205179	05/26/2025	11/26/2024 / SAM	12/22/2023 / SAM	V14106

LOTS

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	02/28/2025	08/29/2024 / SAM	02/06/2024 / SAM	V14145

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	04/14/2025	10/14/2024 / SAM	02/06/2024 / SAM	V14152

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	05/18/2025	11/18/2024 / pedro	02/06/2024 / SAM	V14154

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	05/26/2025	11/26/2024 / SAM	02/20/2024 / SAM	V14173

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	05/26/2025	11/26/2024 / SAM	02/20/2024 / SAM	V14174

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	05/26/2025	11/26/2024 / SAM	02/28/2024 / SAM	V14192

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	05/26/2025	11/26/2024 / SAM	02/28/2024 / SAM	V14194

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	05/26/2025	11/26/2024 / SAM	02/28/2024 / SAM	V14201

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	11/22/2025	11/22/2024 / SAM	04/15/2024 / SAM	V14289

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	05/26/2025	11/26/2024 / SAM	08/15/2024 / SAM	V14434

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	05/26/2025	11/26/2024 / SAM	08/15/2024 / SAM	V14437

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	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

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)	2310762004	07/06/2025	01/06/2025 / SAM	11/26/2024 / SAM	V14627

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	010725	02/07/2025	01/08/2025 / SAM	01/08/2025 / SAM	V14830

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	010725	02/07/2025	01/08/2025 / SAM	01/08/2025 / SAM	V14831

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	010725	02/07/2025	01/08/2025 / SAM	01/08/2025 / SAM	V14832

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

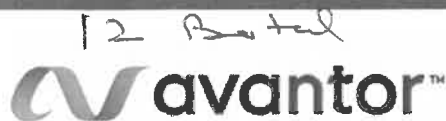
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



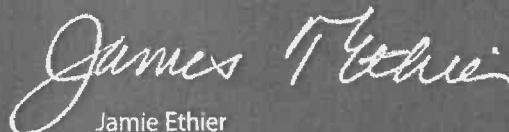
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 010725
Description: Acrolein
Expiration Date: 020725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UJB

Weight(s) shown below were combined and diluted to (mL):

Solvent(s): Water
Lot# 072324Q

V 14823 to V 14827
V 14829

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

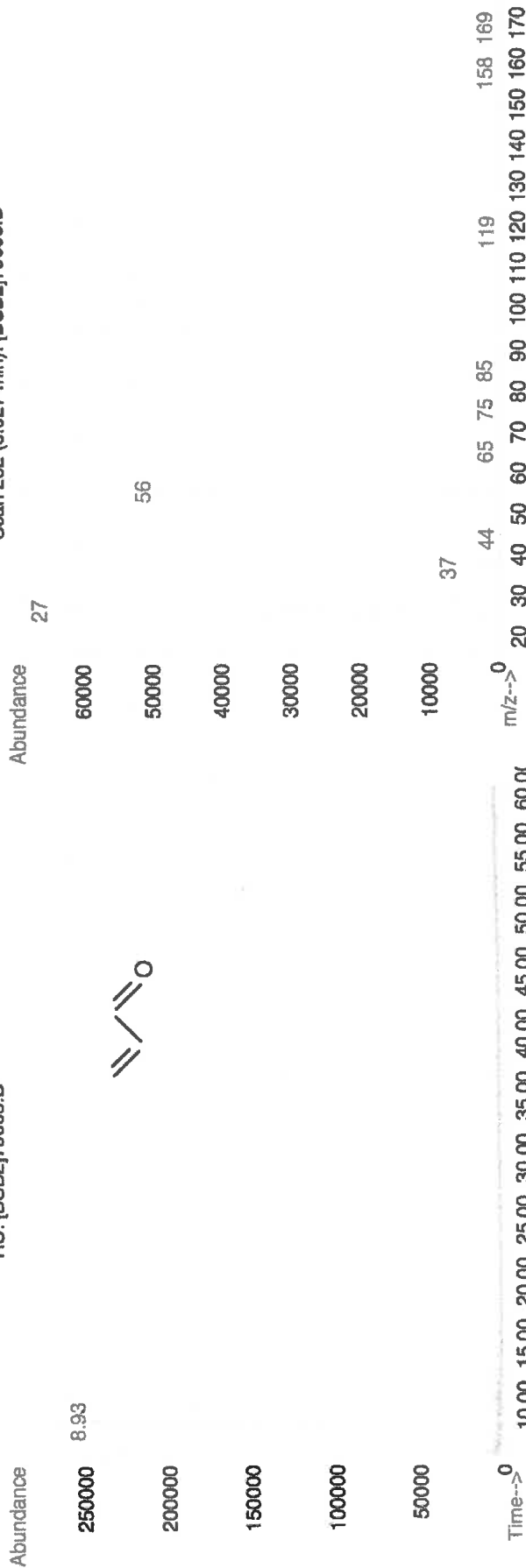
Formulated By:	Anthony Mahoney	010725	DATE
Reviewed By:	Pedro L. Rentas	010725	DATE

Expanded Uncertainty (Solvent Safety Info. On Attached pg.)
Uncertainty (µg/mL) (+/-) (µg/mL) CAS# OSHA PEL (TWA) LD50

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL) (+/-)	CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5011.8	52.6	107-02-8	0.1 ppm	or-rat 48mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Columns: 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.

TIC: [BSB2]79005.D



The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossetto 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)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#: 7732-18-5	% (optional)
Water		> 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

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.
Hazardous Decomposition products	Carbon oxides

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

Water	CAS#: 7732-18-5	TWA: 500 ppm
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	100°C	Specific Gravity (H ₂ O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible		NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products -	No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

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 Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 010725
Description: Acrolein
Expiration Date: 020725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UJB

Solvent(s): Water
Lot# 072324Q

V14823 to V14827
V14829

Weight(s) shown below were combined and diluted to (mL):
5E-05 Balance Uncertainty 10.0
0.001 Flask Uncertainty

Formulated By: Anthony Mahoney	010725
Reviewed By: Pedro L. Rentas	010725
DATE	DATE

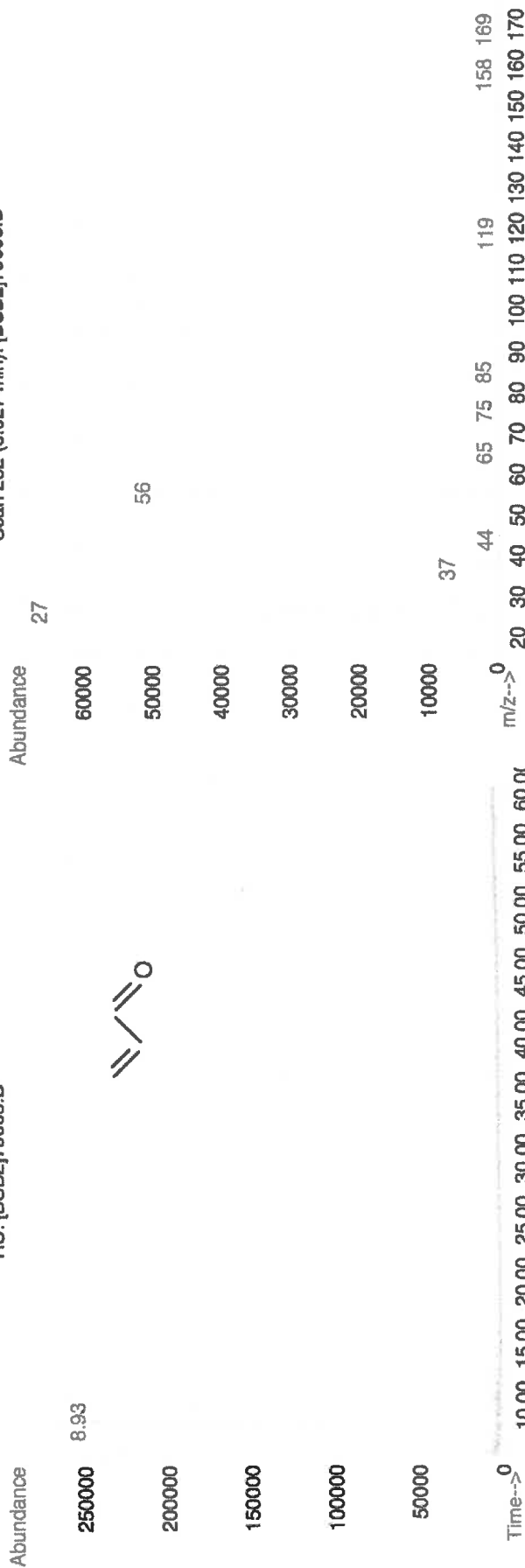
Expanded Uncertainty (Solvent Safety Info. On Attached pg.)
Uncertainty (µg/mL) (+/-) (µg/mL) CAS# OSHA PEL (TWA) LD50

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL) (+/-)	CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5011.8	52.6	107-02-8	0.1 ppm	or-rat 48mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Columns: 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.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D



• The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
• Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
• Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
• All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
• Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossetto 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)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#: 7732-18-5	% (optional)
Water		> 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

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.
Hazardous Decomposition products	Carbon oxides

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

Water	CAS#: 7732-18-5	TWA: 500 ppm
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	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	NA		NA
Appearance and Odor	Completely miscible CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products -	No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

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 Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 010725
Description: Acrolein
Expiration Date: 020725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UJB

Solvent(s): Water
Lot# 072324Q

V14823 to V14827
V14829

Weight(s) shown below were combined and diluted to (mL):
5E-05 Balance Uncertainty 10.0
0.001 Flask Uncertainty

Formulated By:	Anthony Mahoney	010725	DATE
Reviewed By:	Pedro L. Rentas	010725	DATE

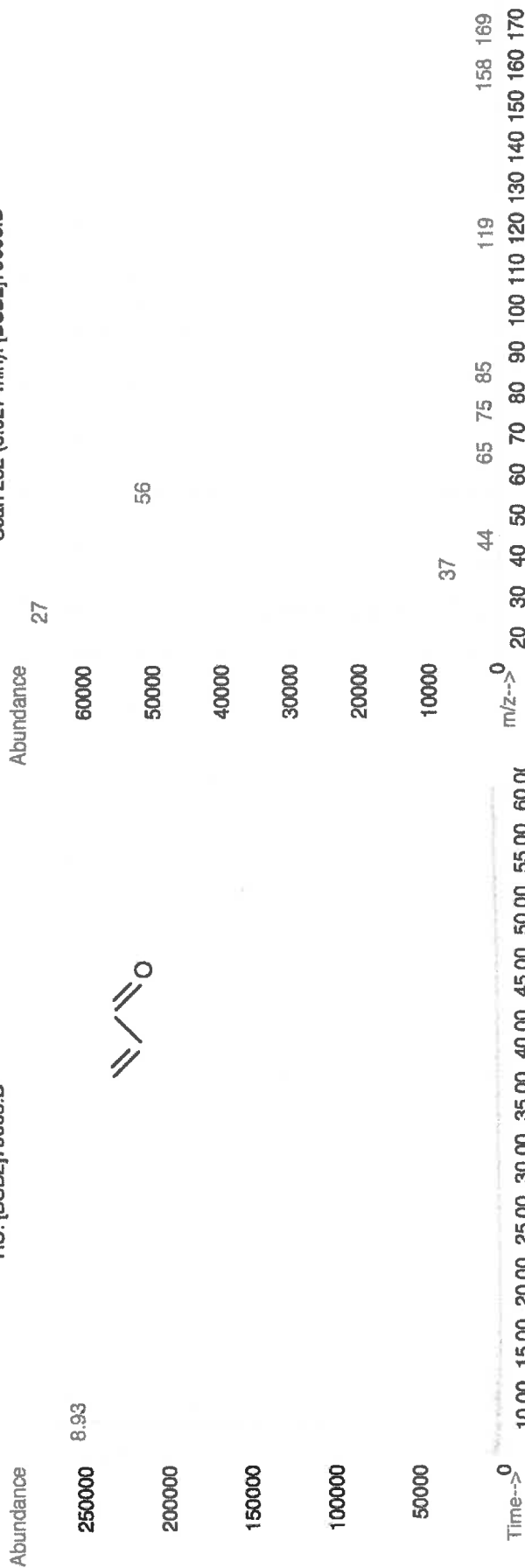
Expanded Uncertainty (Solvent Safety Info. On Attached pg.)
Uncertainty (µg/mL) (+/-) (µg/mL) CAS# OSHA PEL (TWA) LD50

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	ppm	or-rat 48mg/kg
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5011.8	52.6	107-02-8

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Columns: 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.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D



The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossetto 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)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#: 7732-18-5	% (optional)
Water		> 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

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.
Hazardous Decomposition products	Carbon oxides

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

Water	CAS#: 7732-18-5	TWA: 500 ppm
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	100°C	Specific Gravity (H ₂ O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible		NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products -	No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

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CERTIFIED 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#: 8UTB

Solvent(s): **Methanol**
Lot#: **EG359-USQ12**

Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty: **5E-05** Flask Uncertainty: **0.021**

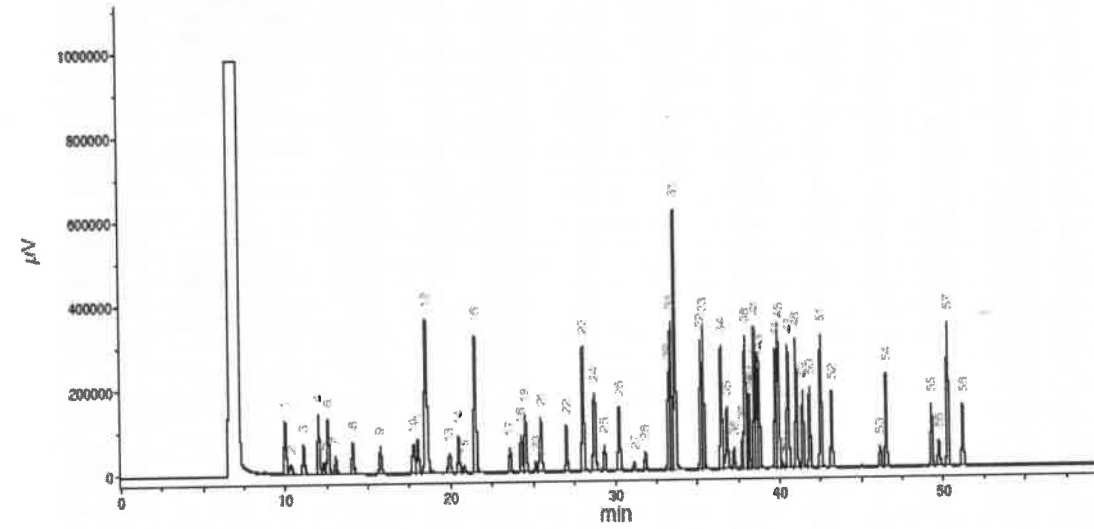
		021624
Formulated By:	Prashant Chauhan	DATE
		021624
Reviewed By:	Pedro L. Rentes	DATE

Compound	(RM#)	Lot	Di.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc. (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	(+/-) (µg/mL)	CAS#	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)	102395	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	0.21058	0.21069	2001.1	6.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CA5000K	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)	06126PK	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)	5HBF8718V	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 70mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8h) (skin)	or-rat 1200mg/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)	MKBW5137V	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 700mg/kg
14. 2-Nitropropane	(0461)	14002JK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8h)	or-rat 720mg/kg
15. Perfluorooctane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7800mg/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 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 840mg/kg
19. cis-1,2-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.6	22.9	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 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8h)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-68-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	or-rat 105mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	N/A	or-rat 108mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	100 ppm	or-rat 725mg/kg
29. Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	1999.8	20.4	584-20-7	N/A	N/A
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8h) (linal)	or-rat 2629mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8h)	or-rat 10300mg/kg
32. 1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-9	0.001 ppm	or-rat 170mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	106-93-4	20 ppm (8h)	or-rat 108mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2000.2	22.9	107-06-2	50 ppm (8h)	or-rat 870mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2000.2	22.9	78-57-5	75 ppm (350mg/m3/8h)	or-rat 1947mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	un-rat 3600mg/kg
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-56-6	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	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	630-20-6	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 (46mg/m3/8h) (skin)	or-rat 836mg/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-rat 2400mg/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 (50mg/m3/8h)	or-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	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	1999.7	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	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	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	1999.7	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	N/A	or-rat 5g/kg
55. 1,2,4,5-Trichlorobenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-67-8	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	108-38-3	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	98-06-6	N/A	N/A
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	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	1999.6	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	40003.8	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	40003.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	or-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1				

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.46
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.38
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Hydropropane	25.46
22	cis-1,3-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-butene	36.48
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
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, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
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 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#: 8UTB

Solvent(s): **Methanol**
Lot#: **EG359-USQ12**

Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty: **5E-05** Flask Uncertainty: **0.021**

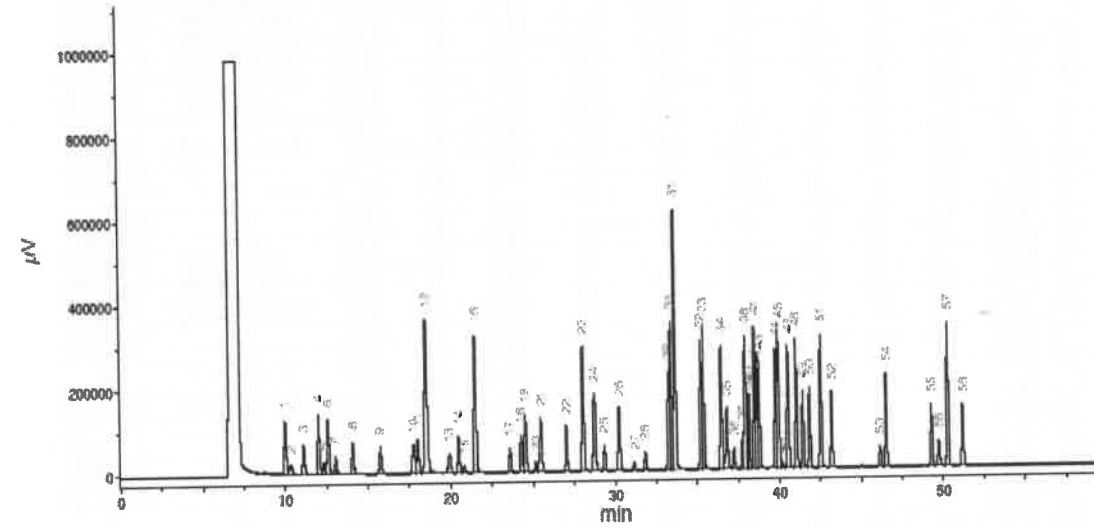
Formulated By: <i>Prashant Chauhan</i>		021624
Reviewed By: <i>Pedro L. Rentes</i>		021624
		DATE

Compound	(RM#)	Lot Number	Di. Factor	Initial Vol. (mL)	Initial Conc. (µg/mL)	Nominal Conc. (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	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
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
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
Carbon disulfide	(0060)	MKCR8581	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
cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
Diethyl ether	(0153)	IK18CA5000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
Ethyl methacrylate	(0381)	06126PK	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
Iodomethane	(0489)	5HBF8718V	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 70mg/kg
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 3480mg/kg
Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 1200mg/kg
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
Methyl methacrylate	(0404)	MKBW5137V	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
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 700mg/kg
2-Nitropropane	(0461)	14002JK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7800mg/m3/8H)	or-rat 43g/kg
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 910mg/kg
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 840mg/kg
cis-1,2-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
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
1,1-Dichloroethene	32251	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
Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg
Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-68-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-85-3	N/A	or-rat 105mg/kg
1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 725mg/kg
2,2-Dichloropropane	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
Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
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
1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg
1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg
1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-08-2	50 ppm (8H)	or-rat 870mg/kg
1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-57-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg
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	un-rat 3600mg/kg
1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	22.9	563-56-6	N/A	N/A
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
trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	22.9	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	or-rat 670mg/kg
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
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 (46mg/m3/8H) (skin)	or-rat 836mg/kg
2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-rat 2400mg/kg
Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (50mg/m3/8H)	or-rat 149.6mg/kg
Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	104-51-8	1 ppm	or-rat 4694mg/kg
n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-88-1	N/A	or-rat 2699mg/kg
Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg
Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
Toluene	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
2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-88-3	200 ppm	or-rat 5000mg/kg
2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	or-rat 1390mg/kg
2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	95-63-6	N/A	or-rat 5g/kg
Xylene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-57-8	N/A	or-rat 5000mg/kg
tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	100 ppm (435mg/m3/8H)	or-rat 5g/kg
sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	N/A
Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-49-8	75 ppm (350mg/m3/8H)	or-rat 2240mg/kg
Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	108-90-7	50 ppm (250mg/m3/8H)	or-rat 2290mg/kg
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 3900mg/kg
2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
3-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 500mg/kg
4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	or-rat 900mg/kg
propylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	96-82-8	50 ppm (245mg/m3/8H)	or-rat 500mg/kg
propylbenzene																

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	10.33
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.46
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.38
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Hitropropane	25.46
22	cis-1,3-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-butene	36.48
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
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, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
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 WEIGHT REPORT

Part Number:
Lot Number:
Description:

95319
032922
Revised Additions Mix

Solvent(s):
Methanol
Lot#
EC592-US

11 components

Expiration Date:

Recommended Storage:

Nominal Concentration (µg/mL):

NIST Test ID#:

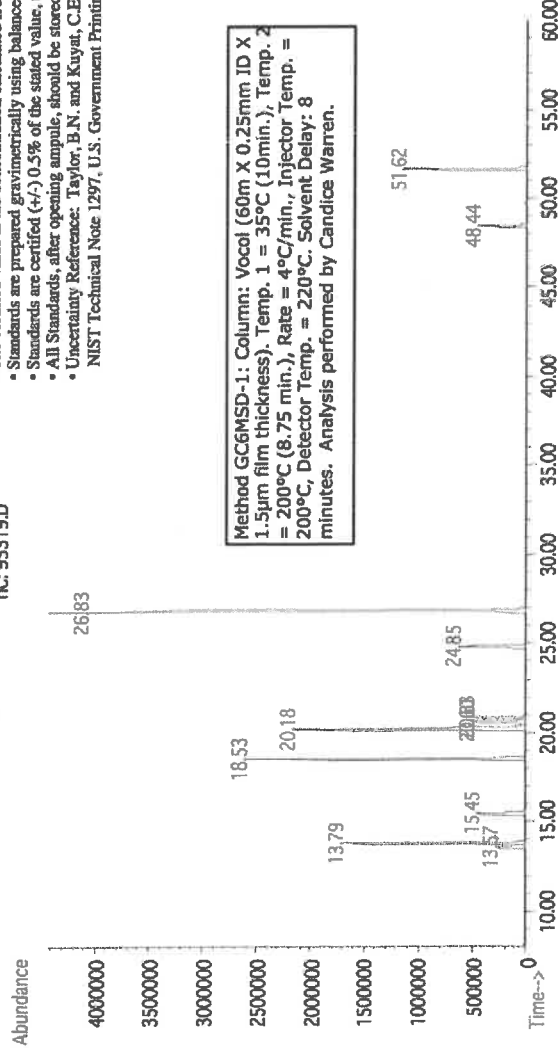
Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.012 Flask Uncertainty

Formulated By:	Prashant Chauhan	DATE	032922
Reviewed By:	Pedro L. Rentas	DATE	032922

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
										(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01015	1.01030	10001.5	40.5	107-13-1	N/A
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A
3. Cyclohexane	1023	28930	2000	99	0.2	0.20203	0.20215	2001.2	8.2	110-82-7	300 ppm (1050mg/m ³ /8h)
4. Di-Isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20203	0.20215	2001.2	8.2	109-20-3	500 ppm (2100mg/m ³ /8h)
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m ³ /8h)(skin)
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m ³ /8h)(skin)
7. Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A
8. Methyl tert-butyl ether (MTBE)	209	02197JJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A
9. Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00105	1.00120	10001.5	40.1	109-99-9	20 ppm (590mg/m ³ /8h)
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21520	2001.3	8.7	488-23-3	N/A

TIC: 95319.D



Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

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, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water
  	Signal Word: DANGER		

Section III - Composition

Components:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

See Certified Weight Report For Other Analytes Present At Trace Quantities.
INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice
If inhaled
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Wash with soap and water. Consult a physician.
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Flammability
Suitable extinguishing media
Protective equipment for fire
Wear self contained breathing apparatus for fire fighting if necessary.
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
heat/sparks/open flame/hot surface. No smoking.

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.
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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.
Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).
Clean up

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.
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
TWA 200 ppm
Skin notation
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

Section X. STABILITY AND REACTIVITY			
Solubility in Water			
COMPLETE			
Appearance and Odor			
CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.			
Boiling Point			
65°C			
Vapor Pressure (mm Hg)			
96			
Vapor Density (AIR = 1)			
1.11			
Melting Point			
-98°C			
Specific Gravity (H ₂ O = 1)			
0.79			
Evaporation rate (Butyl Acetate = 1)			
4.6			

Section XI. TOXICOLOGICAL INFORMATION			
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 XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.			
LD50 Oral - rat - 5,628 mg/kg			
LC50 Inhalation - rat - 4 h - 6400 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 XIII. DISPOSAL CONSIDERATIONS			
LC50			
15,400 mg/l - 96 h			
EC50			
24,500.00 mg/l - 48 h			
EC100			
10,000.00 mg/l - 24 h			
Section XIV. TRANSPORT INFORMATION			
DOT (US)			
UN number: 1280 Class: 3 Packing group: II			
Proper shipping name: Methanol			
ATA			
UN number: 1280 Class: 3 Packing group: II			
Proper shipping name: Methanol			

Section XV. REGULATORY INFORMATION			
OSHA Hazards			
Flammable liquid, Target Organ Effect, Toxic by inhalation, 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 chemicals or 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 WEIGHT REPORT

Part Number:
Lot Number:
Description:

95319
032922
Revised Additions Mix

Solvent(s):
Methanol
Lot#
EC592-US

11 components

Expiration Date:

Recommended Storage:

Nominal Concentration (µg/mL):

NIST Test ID#:

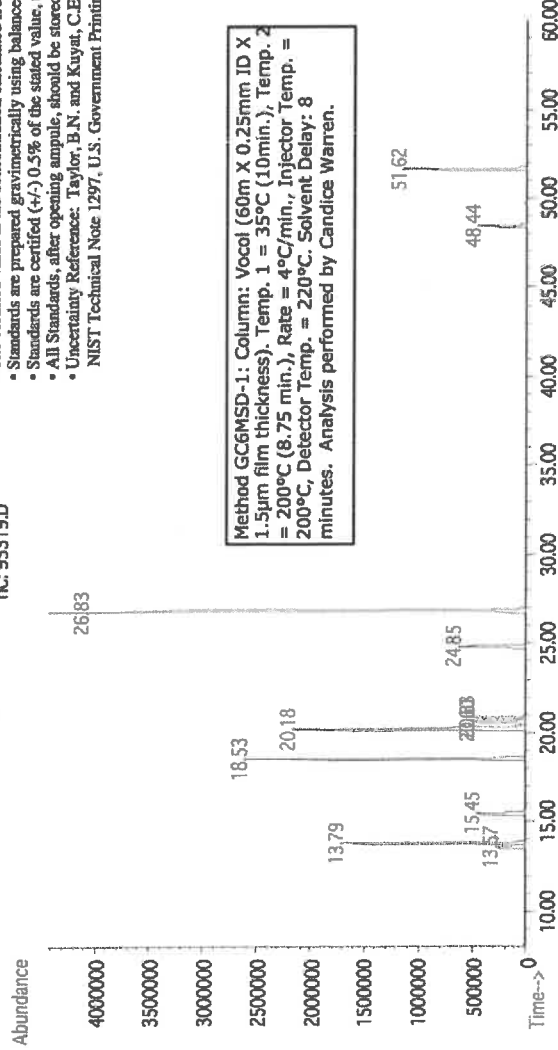
Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.012 Flask Uncertainty

Formulated By:	Prashant Chauhan	032922	DATE
Reviewed By:	Pedro L. Rentas	032922	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
										(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01015	1.01030	10001.5	40.5	107-13-1	N/A
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A
3. Cyclohexane	1023	28930	2000	99	0.2	0.20203	0.20215	2001.2	8.2	110-82-7	300 ppm (1050mg/m3/8H) orl-rat 2870mg/kg
4. Di-Isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20203	0.20215	2001.2	8.2	109-20-3	500 ppm (2100mg/m3/8H) orl-rat 12705mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m3/8H)(skin) orl-rat 8470mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin) orl-rat 4970mg/kg
7. Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A
8. Methyl tert-butyl ether (MTBE)	209	02197LJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A
9. Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00105	1.00120	10001.5	40.1	109-99-9	20 ppm (590mg/m3/8H) orl-rat 38mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21520	2001.3	8.7	488-23-3	N/A

TIC: 95319.D



Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

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, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water
  	Signal Word: DANGER		

Section III - Composition

Components:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

See Certified Weight Report For Other Analytes Present At Trace Quantities.
INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice
If inhaled
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Wash with soap and water. Consult a physician.
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability
Suitable extinguishing media
Protective equipment for fire
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.
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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.
Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).
Clean up

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.
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.
Storage Conditions

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol
67-56-1 TWA 200 ppm
TWA 200 ppm
Skin notation
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

Section X. STABILITY AND REACTIVITY			
Boiling Point		65°C	Specific Gravity (H ₂ O = 1)
Vapor Pressure (mm Hg)		96	Melting Point
Vapor Density (AIR = 1)		1.11	Evaporation rate (Butyl Acetate = 1)
Solubility in Water		COMPLETE	
Appearance and Odor		CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.	

Section XI. TOXICOLOGICAL INFORMATION	
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 XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.	
LD50 Oral - rat - 5,628 mg/kg LC50 Inhalation - rat - 4 h - 6400 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 XIII. DISPOSAL CONSIDERATIONS	
LC50 15,400 mg/l - 96 h EC50 24,500.00 mg/l - 48 h EC100 10,000.00 mg/l - 24 h	

Section XIV. TRANSPORT INFORMATION	
DOT (US)	IATA
UN number: 1280 Class: 3 Packing group: II	UN number: 1280 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 chemicals or 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.	



Dec 12/6/24
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

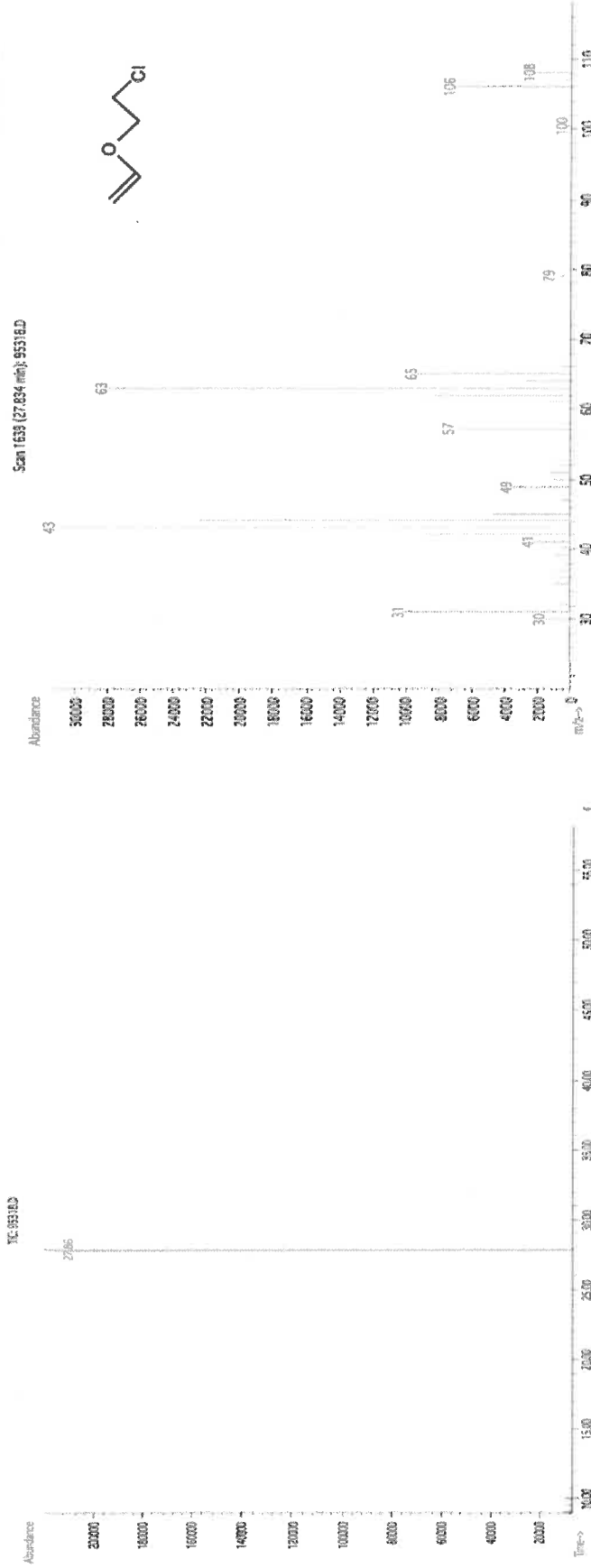
✓ 14630 to
✓ 14649

Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8 N/A or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	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.



Rec 1216124
20 vial

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

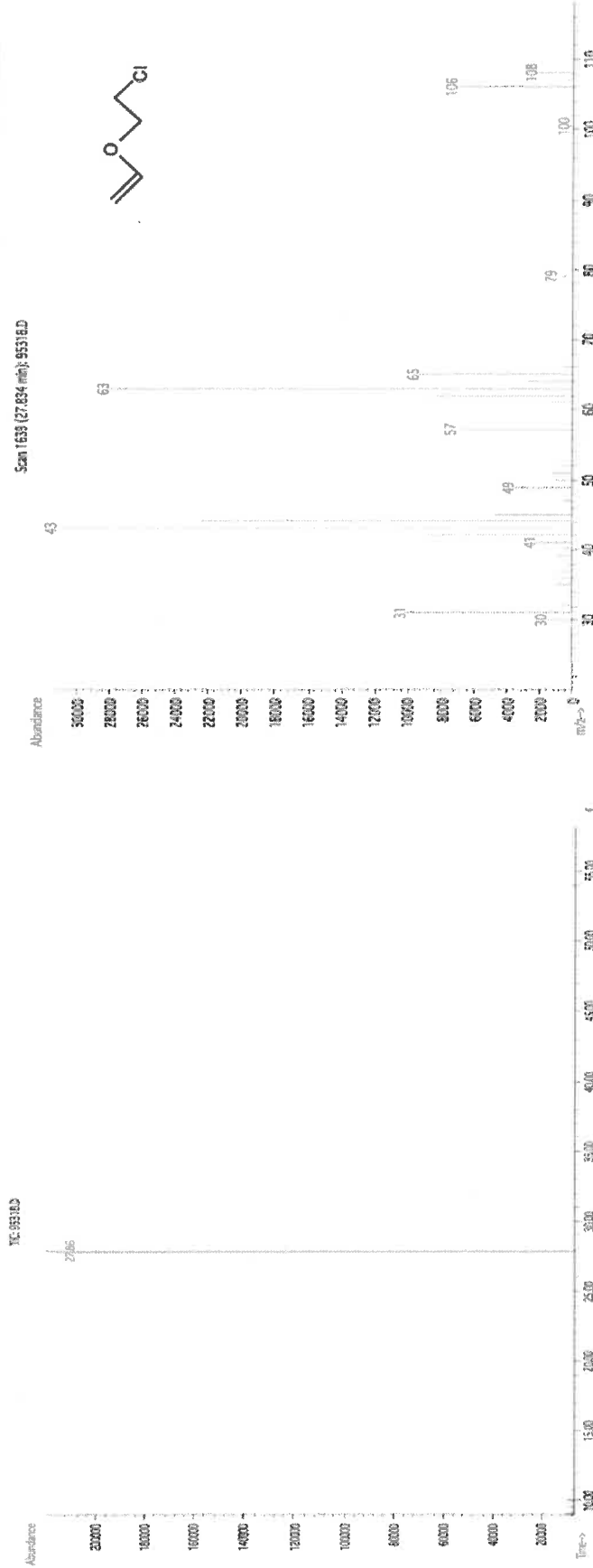
Formulated By: Prashant Chauhan 120524
Reviewed By: Pedro L. Rentas 120524

Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8 N/A or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

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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))	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. 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	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.



Dec 12/6/24
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol 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):

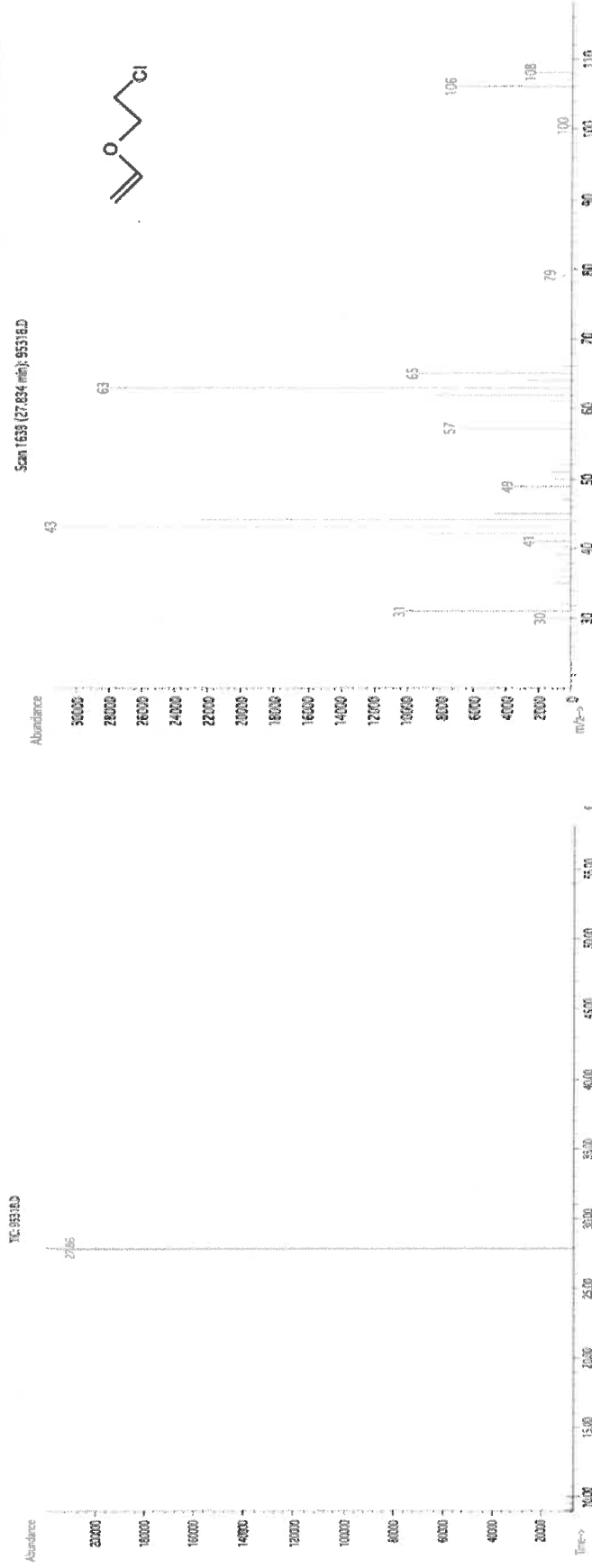
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By: Prashant Chauhan 120524
Reviewed By: Pedro L. Rentas 120524

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.)	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	or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



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Safety Data Sheet (SDS)

GHS/OSHA Compliant

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GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

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H370	Cause damage to organs	H351	Suspected of causing cancer
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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.
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Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

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Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	67-56-1	TWA 200 ppm
Skin notation			TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.			
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Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

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
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Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

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.



Dec 12/6/24
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

✓ 14630 to
✓ 14649

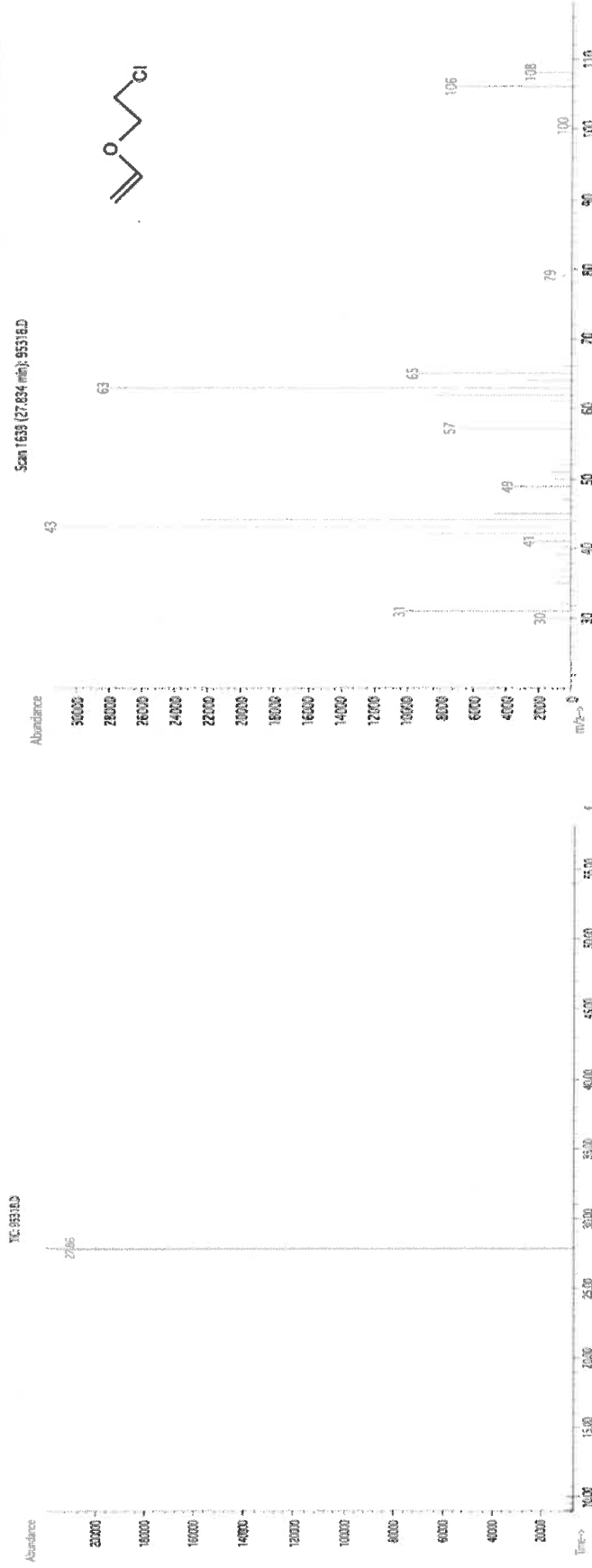
Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	(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	or-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).

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 Rosotto Dr. Hamden CT. 06514	Emergency Telephone International Date Prepared/Revised	1-352-323-3500 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))	CAS#	% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1
		> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm		
Skin notation	TWA 200 ppm		
Potential for skin absorption, ingestion and inhalation.			
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 Lot No.: A0181905
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 : February 28, 2025 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)												
1	tert-Butanol (TBA) CAS # 75-65-0 Purity 99% (Lot SHBM7694)	50,126.0 µg/mL	<table><tr><td>+/-</td><td>293.4988</td><td>µg/mL</td><td>Gravimetric</td></tr><tr><td>+/-</td><td>1,073.7654</td><td>µg/mL</td><td>Unstressed</td></tr><tr><td>+/-</td><td>1,104.9494</td><td>µg/mL</td><td>Stressed</td></tr></table>	+/-	293.4988	µg/mL	Gravimetric	+/-	1,073.7654	µg/mL	Unstressed	+/-	1,104.9494	µg/mL	Stressed
+/-	293.4988	µg/mL	Gravimetric												
+/-	1,073.7654	µg/mL	Unstressed												
+/-	1,104.9494	µg/mL	Stressed												

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

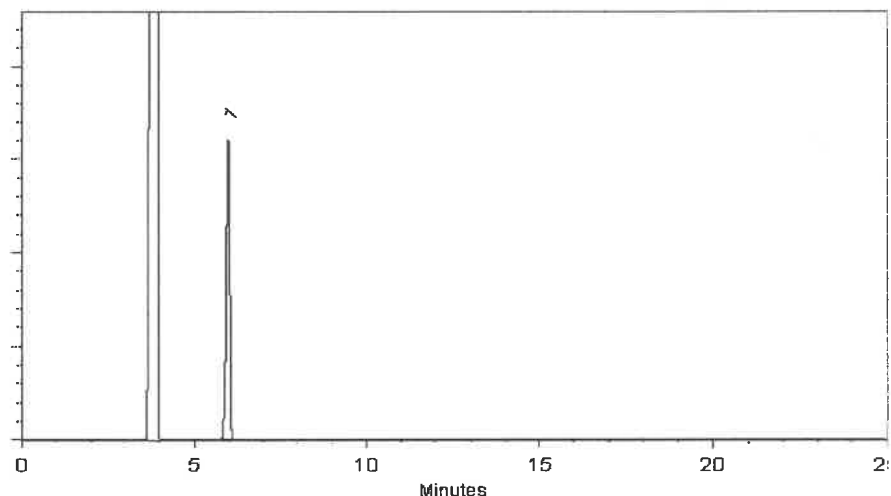
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 16-Feb-2022

Balance: B442140311

Marlene Cowan - Operations Tech I

Date Passed: 21-Feb-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



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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:

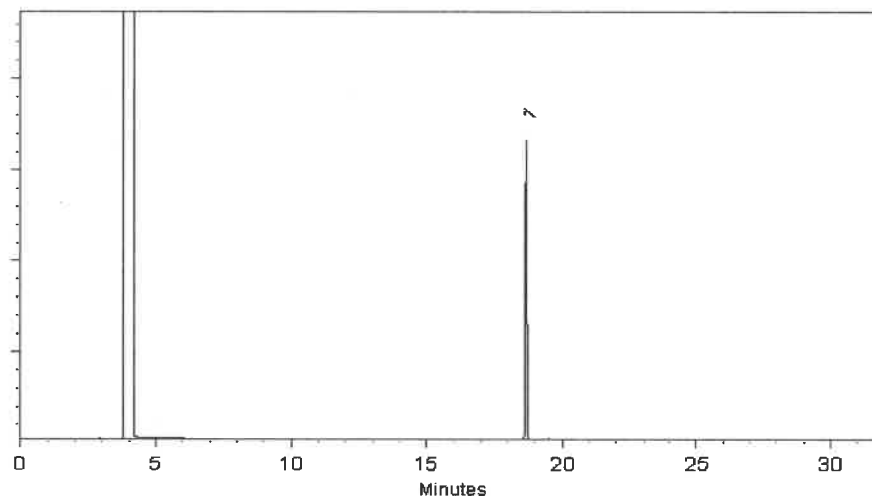
FID

Split Vent:

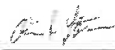
40 ml/min

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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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. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 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	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* 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:

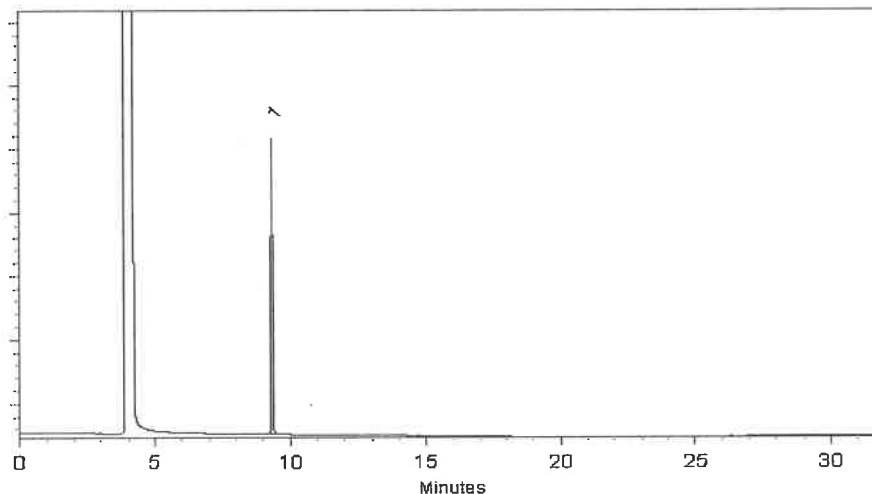
FID

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.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 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	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* 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:

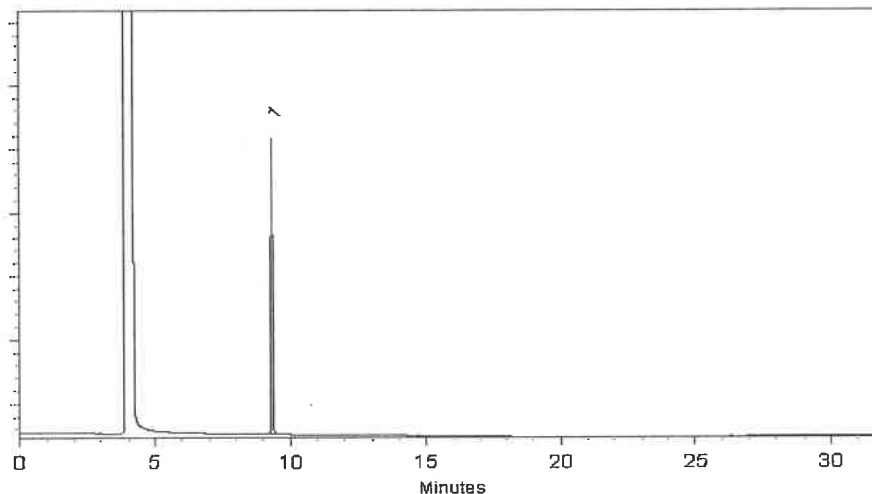
FID

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.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 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	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* 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:

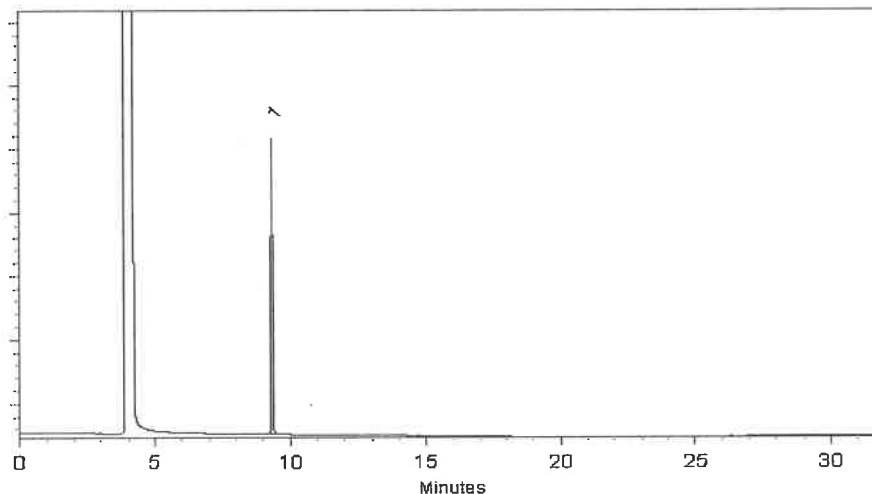
FID

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.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 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	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* 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:

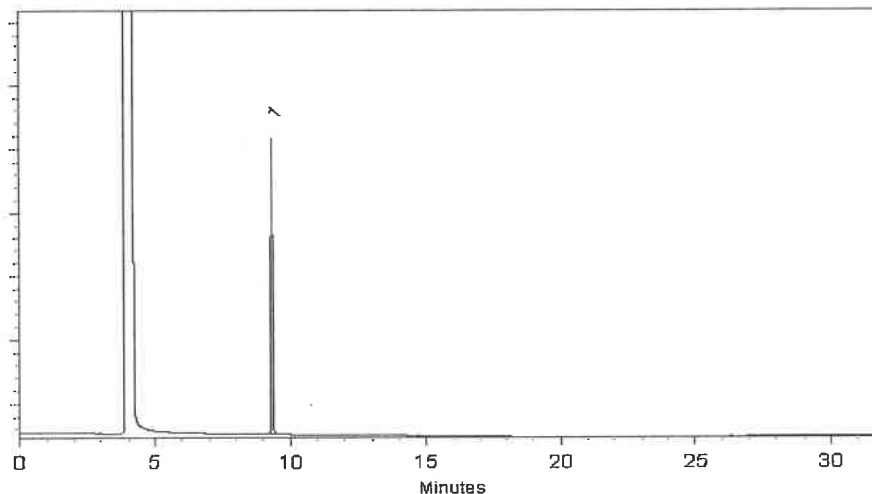
FID

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.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0194279

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 : October 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	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.5 µg/mL	+/- 112.7231
2	Chloromethane (methyl chloride)	74-87-3	SHBK6571	99%	2,001.2 µg/mL	+/- 112.5863
3	Vinyl chloride	75-01-4	00015559	99%	2,001.4 µg/mL	+/- 112.6561
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8262
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,001.9 µg/mL	+/- 112.5897
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,000.8 µg/mL	+/- 112.6473

* 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:

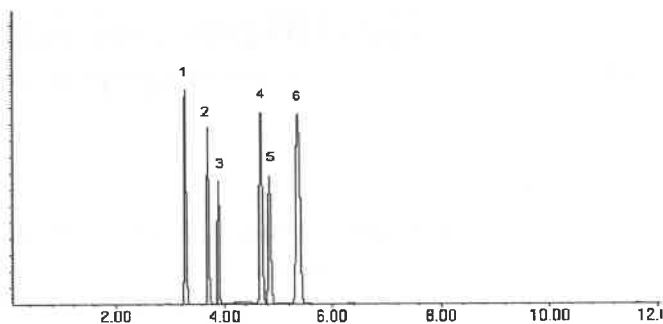
MSD

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 Suckar - Mix Technician

Date Mixed: 03-Feb-2023

Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Feb-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0196865

Description : Custom 8260A/B Surrogate Mix
Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023

Balance: 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

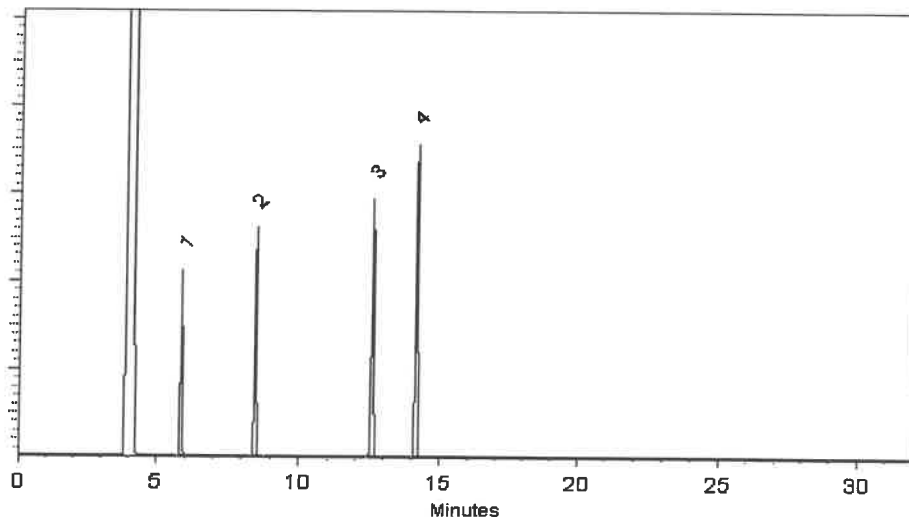
FID

Split Vent:

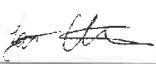
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

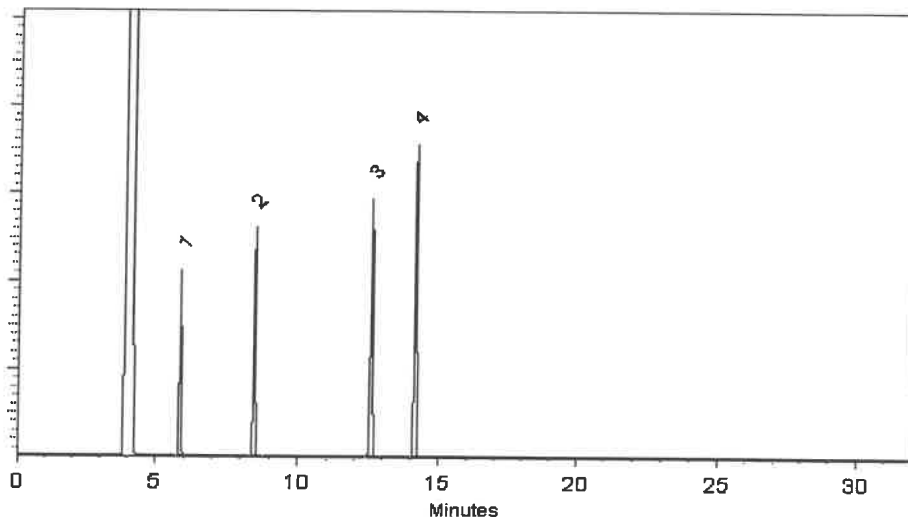
FID

Split Vent:

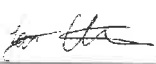
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

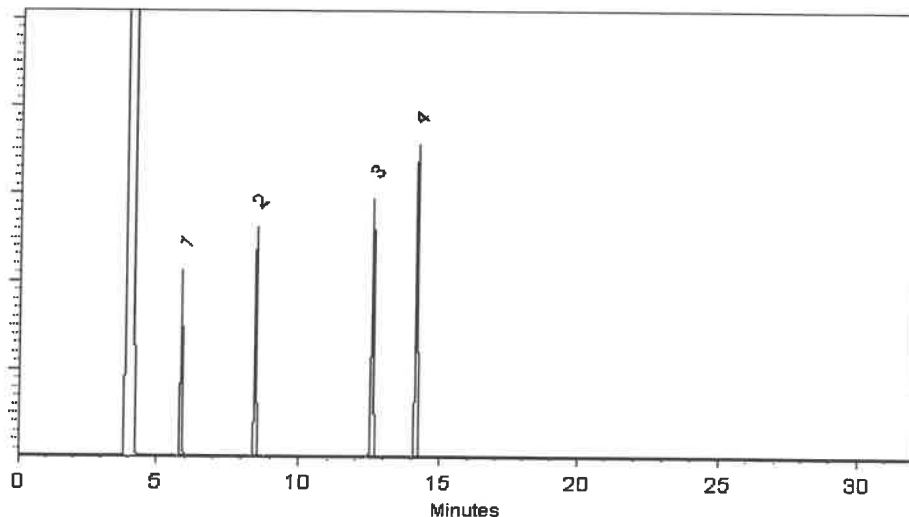
FID

Split Vent:

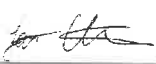
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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12
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic



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.:** A0205179
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, 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	Vinyl acetate	108-05-4	RP231030CTH	98%	8,075.2 µg/mL	+/- 279.1159

* 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:

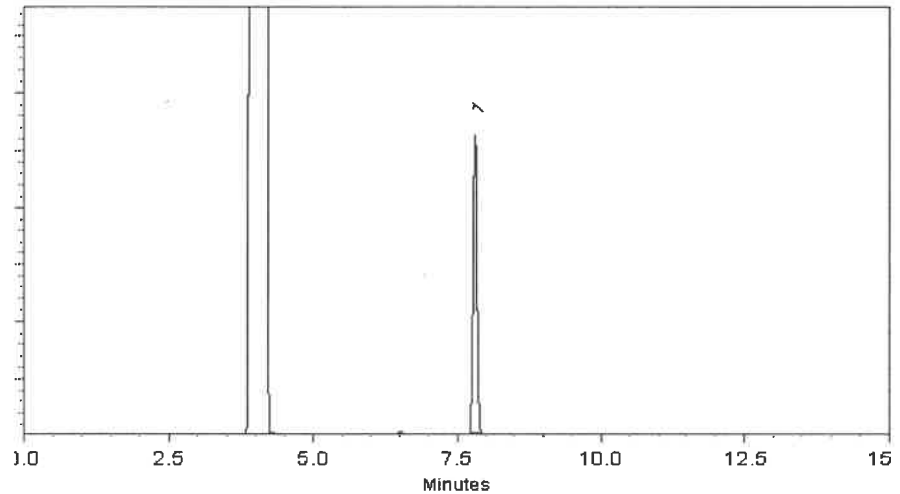
FID

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.


Daniel Wasson - Operations Tech I

Date Mixed: 06-Dec-2023 Balance Serial # 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Dec-2023

APPROVED
By: Jennifer Pollino (Date: 11-Dec-2023)

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ 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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12
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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. : 555408-SL **Lot No.:** A0205179
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, 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	Vinyl acetate	108-05-4	RP231030CTH	98%	8,075.2 µg/mL	+/- 279.1159

* 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:

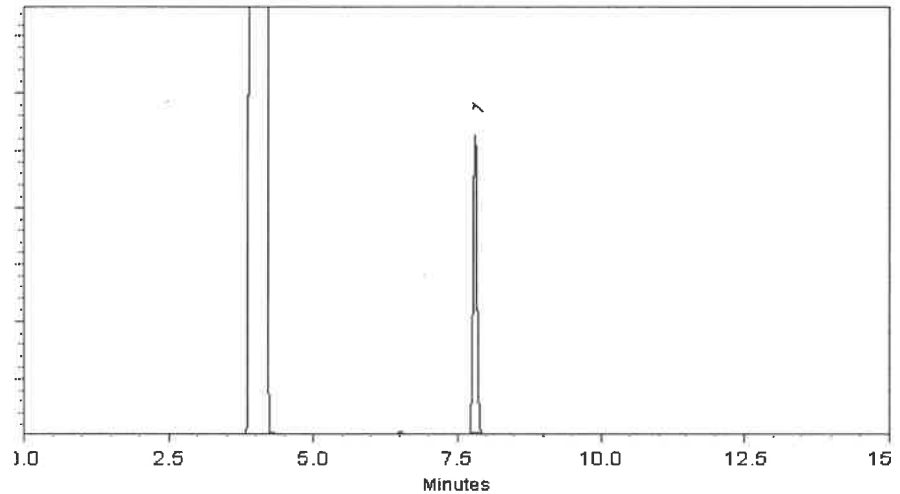
FID

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.

Daniel Wasson - Operations Tech I

Date Mixed: 06-Dec-2023

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Dec-2023

APPROVED
(Signature Required for Log to HPLC)

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

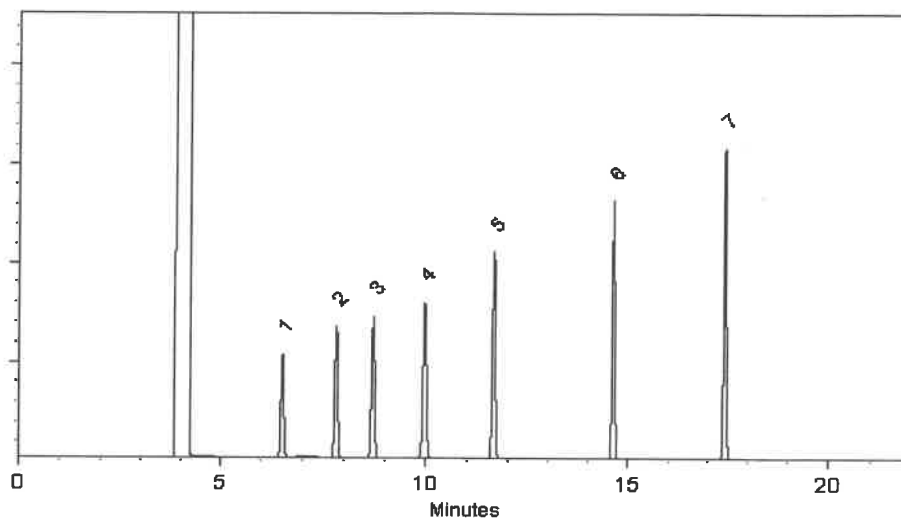
FID

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

Dillon Murphy
Dillon 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:

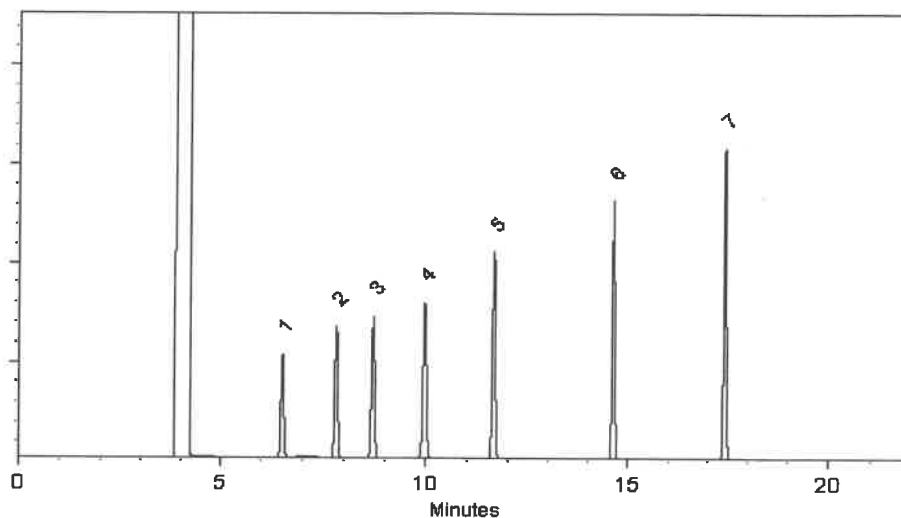
FID

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

Dillon Murphy
Dillon 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.



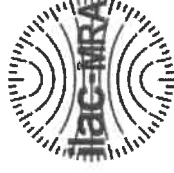
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 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: 11275.10105



Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



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

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500 Series for Drinking Water
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Jamie Ethier
Vice President Global Quality



SHIPPING DOCUMENTS



CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092

(908) 789-8900 Fax: (908) 78-8922

www.chemtech.net

Chemtech Project Number:

Q1062/Q1063

COC Number:

CLIENT INFORMATION

COMPANY: Tetra Tech

ADDRESS: 4433 Corporation Lane Suite 300

CITY: Virginia Beach STATE: VA ZIP: 23462

ATTENTION: Ernie Wu

PHONE: 757-466-4901

FAX: 757-461-4148

PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage

PROJECT #: 112G08005-WE13 LOCATION: VPB-190

PROJECT MANAGER: Ernie Wu

E-MAIL: ernie.wu@tetrattech.com

PHONE: 757-466-4901

FAX: 757-461-4148

DATA TURNAROUND INFORMATION

FAX: 2 & 10 DAYS*

HARD COPY: 2 & 10 DAYS*

EDD 2 & 10 DAYS*

* TO BE APPROVED BY CHEMTECH

STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY☐ RESULTS + QC☐ New Jersey REDUCED☐ New Jersey CLP☐ EDD Format☐ USEPA CLP☐ New York State ASP "B"☐ New York State ASP "A"☐ Other

BILLING INFORMATION

BILL TO: SEE CONTRACT

PO#

ADDRESS:

CITY:

STATE: ZIP:

ATTENTION:

PHONE:

ANALYSIS

VOC(SW846-8260B)

1,4 Dioxane (8270 SIM)

1,4 Dioxane (522 PREC)

1

2

3

4

5

6

7

8

9

PRESERVATIVES

COMMENTS

<-- Specify Preservatives

A-HCl B-HNO3

C-H2SO4 D-NaOH

E-ICE F-Other

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles										
			COMP	GRAB	DATE	TIME		A		F							
1.	BP-VPB-190A-TB-20250107	QA		X	1/7/25	8:00	2	2									Trip Blank
2.	VPB190A-HYD-20250107	QA		X	1/7/25	9:30	5	2	1	2							Hydrant sample
3.	BP-VPB-190A-EB-20250107	QA		X	1/7/25	10:30	2	2									Equipment Blank
4.	BP-VPB-190A-GW-898-900	AQ		X	1/7/25	14:50	2	2									
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

RECEIVED BY

RELINQUISHED BY

DATE/TIME

RECEIVED BY

RELINQUISHED BY

DATE/TIME

RECEIVED FOR LAB BY

Conditions of bottles or coolers at receipt:

☐ Compliant☐ Non Compliant☐ Cooler Temp 2.5°C

MeOH extraction requires an additional 4oz. Jar for percent solid

☐ Ice in Cooler?:

Comments: 48hr TAT - For VOC's see worksheet #15 of SAP 2018 for VPB program VOC list

10-DAY TAT - For 1,4 Dioxane (8270 SIM)

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ OvernightCHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete

☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

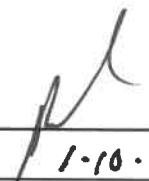
LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1062	TETR06	Order Date : 1/10/2025 11:26:00 AM	Project Mgr : Kiran
Client Name : Tetra Tech NUS, Inc.		Project Name : NWIRP Bethpage 112G080	Report Type : Level 4
Client Contact : Ernie Wu		Receive DateTime : 1/9/2025 4:15:00 PM	EDD Type : ADAPT
Invoice Name : Tetra Tech NUS, Inc.		Purchase Order :	Hard Copy Date :
Invoice Contact : Ernie Wu			Date Signoff : 1/10/2025 12:45:41 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1062-01	BP-VPB-190A-TB-20250107	Water	01/07/2025	08:00					
					VOCMS Group1		8260-Low	2 Bus. Days	
Q1062-02	VPB190A-HYD-20250107	Water	01/07/2025	09:30					
					VOCMS Group1		8260-Low	2 Bus. Days	
Q1062-03	BP-VPB-190A-EB-20250107	Water	01/07/2025	10:30					
					VOCMS Group1		8260-Low	2 Bus. Days	
Q1062-04	BP-VPB-190A-GW-898-900	Water	01/07/2025	14:50					
					VOCMS Group1		8260-Low	2 Bus. Days	

Relinquished By : 

Date / Time : 1-10-25 1305

Received By : 

Date / Time : 1-10-25 13:05

Storage Area : VOA Refridgerator Room

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085447.D
 Acq On : 15 Jan 2025 09:03
 Operator : JC\MD
 Sample : VSTDC0050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0050

Quant Time: Jan 16 00:51:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	218273	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	358609	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	316952	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	158347	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	178793	50.745	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 101.480%	
35) Dibromofluoromethane	8.159	113	132381	53.211	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 106.420%	
50) Toluene-d8	10.559	98	486444	55.032	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 110.060%	
62) 4-Bromofluorobenzene	12.847	95	168340	55.673	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 111.340%	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	143408	48.525	ug/l	99
3) Chloromethane	2.359	50	147166	45.992	ug/l	98
4) Vinyl Chloride	2.518	62	151933	47.239	ug/l	99
5) Bromomethane	2.959	94	87556	45.067	ug/l	97
6) Chloroethane	3.124	64	93081	45.648	ug/l	95
7) Trichlorofluoromethane	3.500	101	227366	48.720	ug/l	100
8) Diethyl Ether	3.959	74	73785	45.767	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	130921	49.808	ug/l	99
10) Methyl Iodide	4.589	142	149033	49.511	ug/l	98
11) Tert butyl alcohol	5.506	59	74825	185.463	ug/l	100
12) 1,1-Dichloroethene	4.336	96	115861	49.459	ug/l	99
13) Acrolein	4.177	56	131470	238.713	ug/l	99
14) Allyl chloride	5.018	41	181372	47.714	ug/l	99
15) Acrylonitrile	5.712	53	284008	221.624	ug/l	99
16) Acetone	4.418	43	250548	220.081	ug/l	100
17) Carbon Disulfide	4.712	76	332259	46.066	ug/l	99
18) Methyl Acetate	5.018	43	152823	44.146	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	383442	50.410	ug/l	98
20) Methylene Chloride	5.271	84	132073	46.863	ug/l	97
21) trans-1,2-Dichloroethene	5.789	96	122694	49.008	ug/l	99
22) Diisopropyl ether	6.665	45	429155	50.865	ug/l	99
23) Vinyl Acetate	6.594	43	1530873	259.270	ug/l	99
24) 1,1-Dichloroethane	6.565	63	250056	48.606	ug/l	99
25) 2-Butanone	7.477	43	367726	219.497	ug/l	98
26) 2,2-Dichloropropane	7.483	77	224423	53.956	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	147121	49.893	ug/l	100
28) Bromochloromethane	7.806	49	117821	49.226	ug/l	99
29) Tetrahydrofuran	7.830	42	245371	231.013	ug/l	99
30) Chloroform	7.959	83	253854	47.743	ug/l	99
31) Cyclohexane	8.253	56	205522	45.962	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	225987	48.453	ug/l	99
36) 1,1-Dichloropropene	8.365	75	180278	51.631	ug/l	99
37) Ethyl Acetate	7.553	43	157899	44.802	ug/l	97
38) Carbon Tetrachloride	8.359	117	201730	50.466	ug/l	99
39) Methylcyclohexane	9.594	83	189425	57.732	ug/l	98
40) Benzene	8.600	78	539436	51.417	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085447.D
 Acq On : 15 Jan 2025 09:03
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Quant Time: Jan 16 00:51:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	90556	49.387	ug/l	98
42) 1,2-Dichloroethane	8.665	62	197097	49.881	ug/l	99
43) Isopropyl Acetate	8.682	43	266284	47.153	ug/l	99
44) Trichloroethene	9.347	130	123817	50.700	ug/l	97
45) 1,2-Dichloropropane	9.612	63	135244	50.468	ug/l	96
46) Dibromomethane	9.706	93	94501	48.873	ug/l	98
47) Bromodichloromethane	9.882	83	203552	51.671	ug/l	99
48) Methyl methacrylate	9.677	41	129471	50.945	ug/l	98
49) 1,4-Dioxane	9.688	88	37393	873.742	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	789380	240.885	ug/l	99
52) Toluene	10.624	92	328434	54.029	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	198974	53.447	ug/l	95
54) cis-1,3-Dichloropropene	10.306	75	213072	53.582	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	120803	50.215	ug/l	99
56) Ethyl methacrylate	10.871	69	184561	45.714	ug/l	99
57) 1,3-Dichloropropane	11.159	76	211921	50.662	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.153	63	416723	272.966	ug/l	100
59) 2-Hexanone	11.188	43	558711	242.307	ug/l	100
60) Dibromochloromethane	11.353	129	146358	50.392	ug/l	99
61) 1,2-Dibromoethane	11.465	107	117431	49.039	ug/l	99
64) Tetrachloroethene	11.100	164	112592	52.107	ug/l	96
65) Chlorobenzene	11.888	112	348954	50.257	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.953	131	126127	49.494	ug/l	99
67) Ethyl Benzene	11.959	91	623373	55.122	ug/l	98
68) m/p-Xylenes	12.065	106	478857	114.570	ug/l	98
69) o-Xylene	12.394	106	221609	55.481	ug/l	98
70) Styrene	12.406	104	382963	57.933	ug/l	100
71) Bromoform	12.570	173	95715	52.493	ug/l #	97
73) Isopropylbenzene	12.688	105	579887	54.261	ug/l	100
74) N-amyl acetate	12.488	43	229808	47.841	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	165720	43.898	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	218540	67.902	ug/l	50
77) Bromobenzene	12.976	156	137136	49.115	ug/l	96
78) n-propylbenzene	13.029	91	703936	55.640	ug/l	100
79) 2-Chlorotoluene	13.123	91	423036	51.665	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	492256	55.763	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	58114	48.853	ug/l	92
82) 4-Chlorotoluene	13.217	91	425288	52.164	ug/l	100
83) tert-Butylbenzene	13.435	119	405351	54.680	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	498787	56.692	ug/l	97
85) sec-Butylbenzene	13.612	105	580478	56.497	ug/l	99
86) p-Isopropyltoluene	13.723	119	492423	52.852	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	257806	50.137	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	256221	48.073	ug/l	99
89) n-Butylbenzene	14.053	91	424966	57.654	ug/l	98
90) Hexachloroethane	14.329	117	95205	48.675	ug/l	99
91) 1,2-Dichlorobenzene	14.100	146	242707	47.320	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	29578	42.906	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	120596	50.589	ug/l	98
94) Hexachlorobutadiene	15.494	225	60079	47.470	ug/l	97
95) Naphthalene	15.635	128	327305	46.012	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	113937	47.236	ug/l	99

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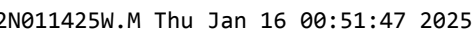
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

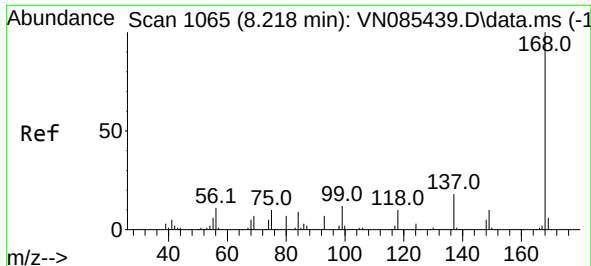
Quant Time: Jan 16 00:51:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

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

Quant Time: Jan 16 00:51:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

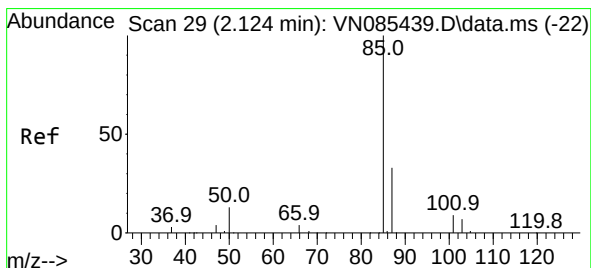
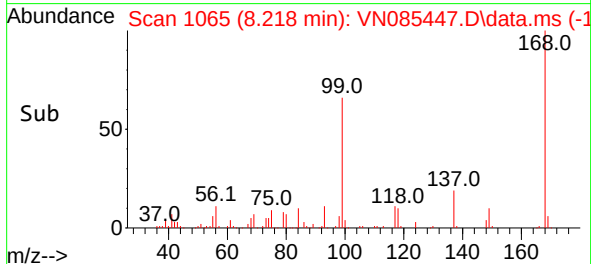
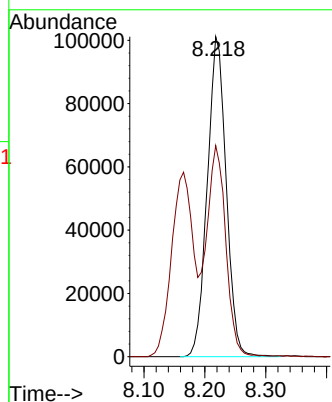
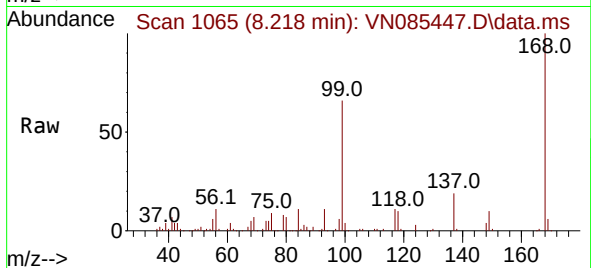




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

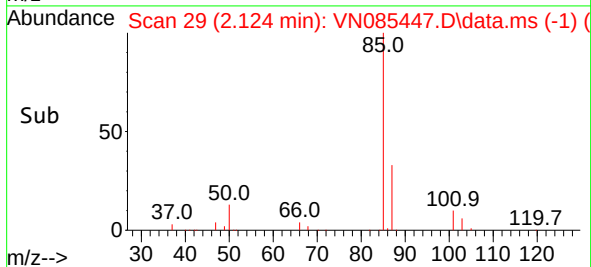
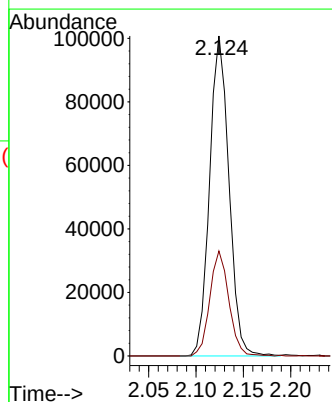
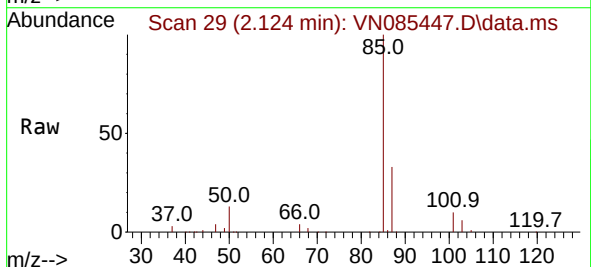
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

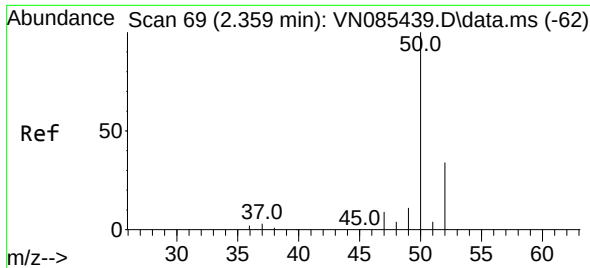
Tgt Ion:168 Resp: 218273
Ion Ratio Lower Upper
168 100
99 65.7 53.6 80.4



#2
Dichlorodifluoromethane
Concen: 48.525 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 85 Resp: 143408
Ion Ratio Lower Upper
85 100
87 32.8 16.7 50.1

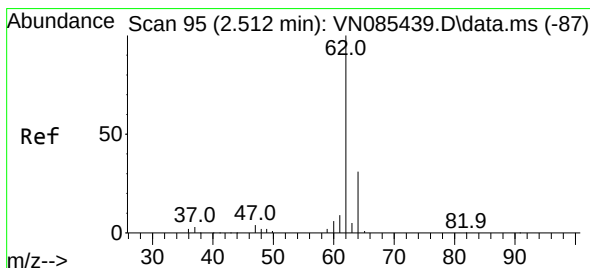
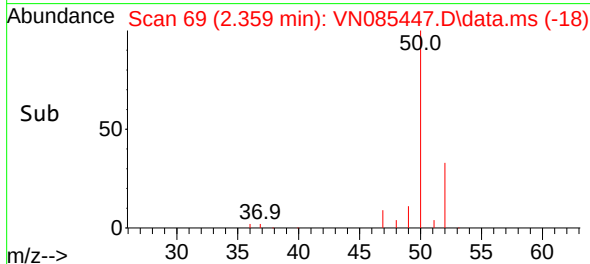
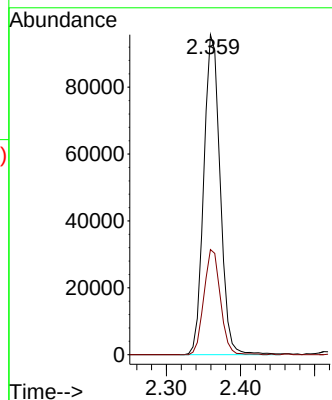
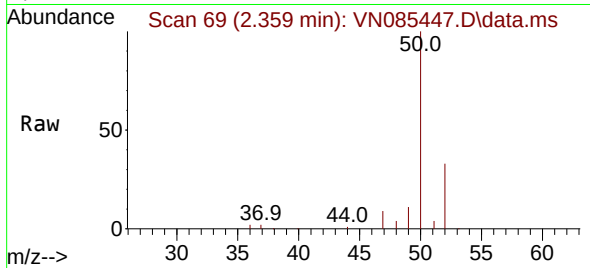




#3
Chloromethane
Concen: 45.992 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

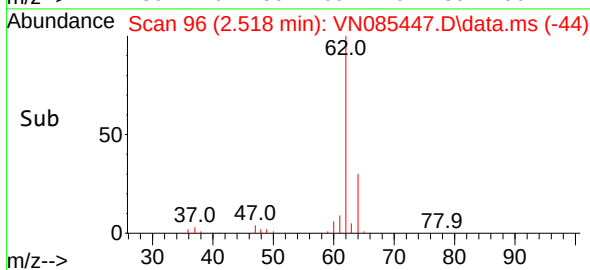
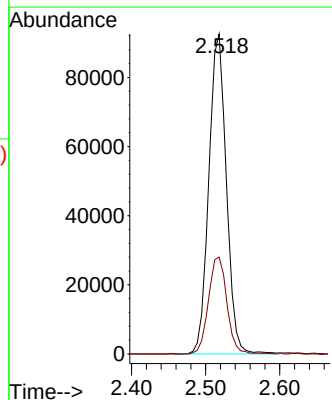
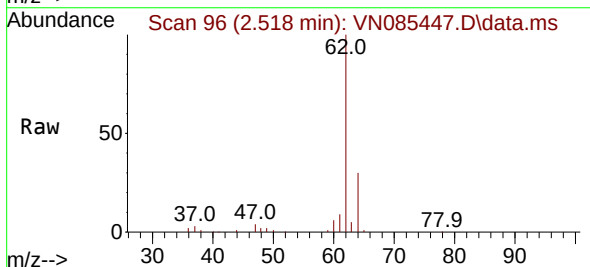
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

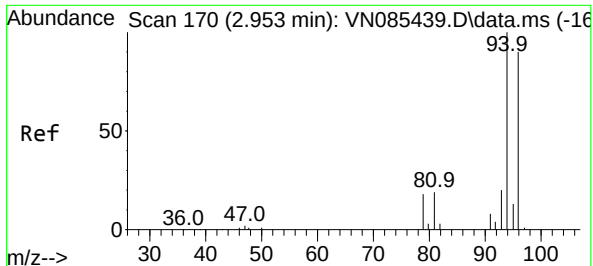
Tgt Ion: 50 Resp: 147166
Ion Ratio Lower Upper
50 100
52 32.9 27.0 40.6



#4
Vinyl Chloride
Concen: 47.239 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 62 Resp: 151933
Ion Ratio Lower Upper
62 100
64 30.3 24.8 37.2

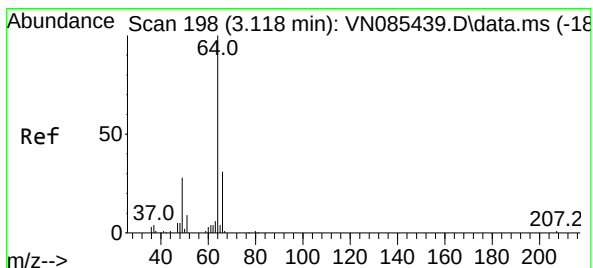
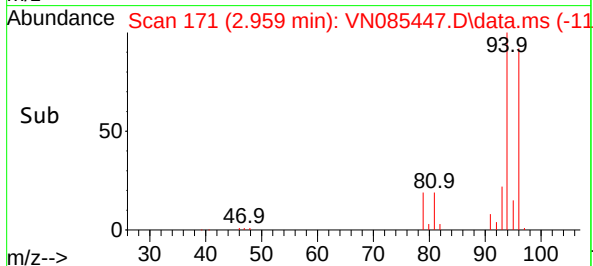
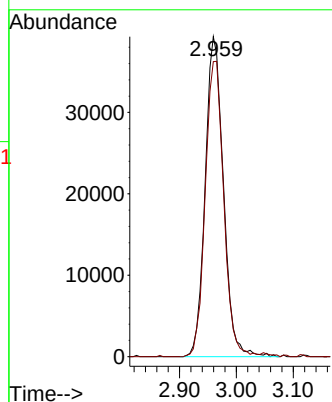
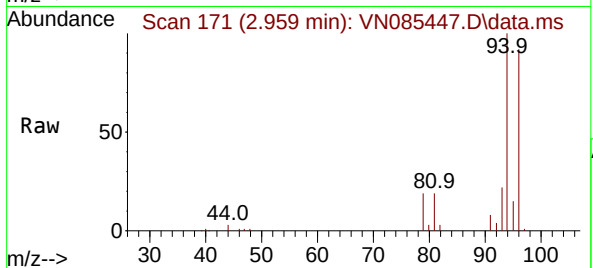




#5
Bromomethane
Concen: 45.067 ug/l
RT: 2.959 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

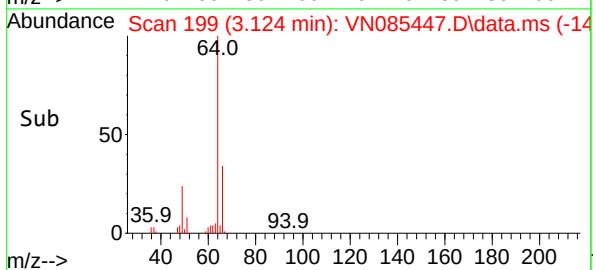
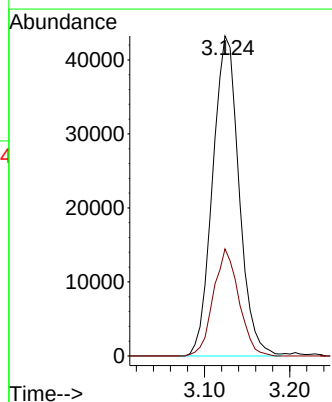
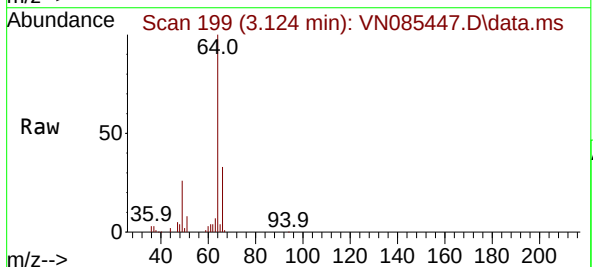
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

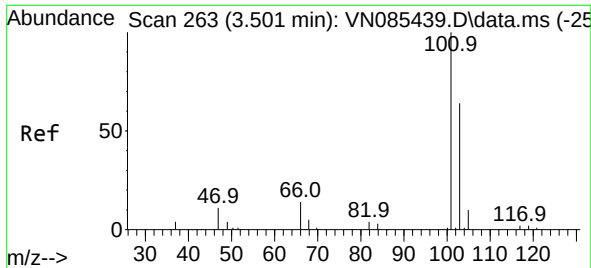
Tgt Ion: 94 Resp: 87556
Ion Ratio Lower Upper
94 100
96 92.2 71.8 107.6



#6
Chloroethane
Concen: 45.648 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 64 Resp: 93081
Ion Ratio Lower Upper
64 100
66 33.5 24.6 36.8

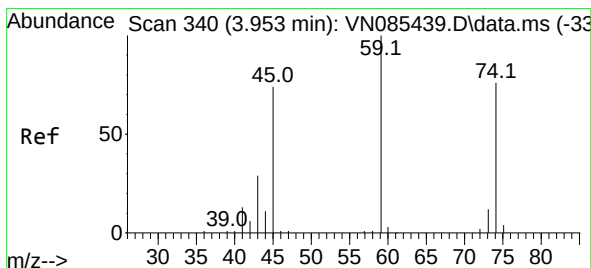
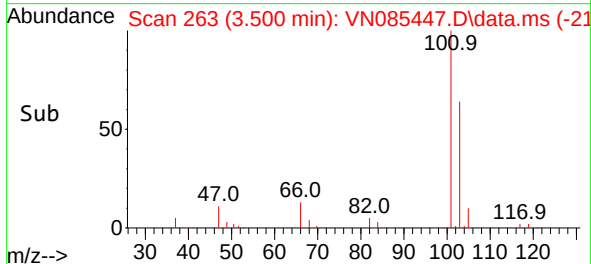
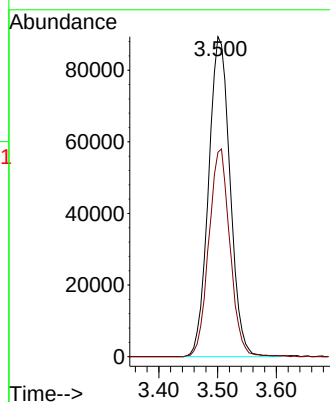
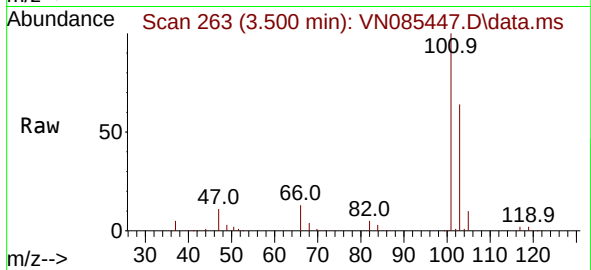




#7
 Trichlorofluoromethane
 Concen: 48.720 ug/l
 RT: 3.500 min Scan# 210
 Delta R.T. -0.000 min
 Lab File: VN085447.D
 Acq: 15 Jan 2025 09:03

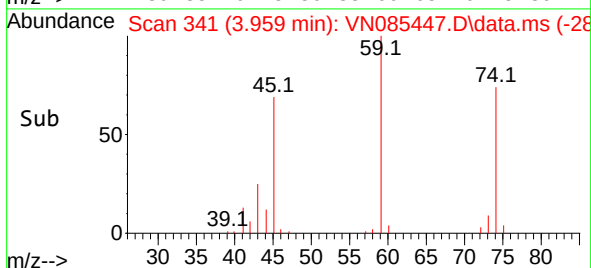
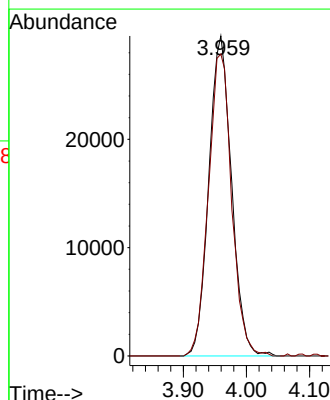
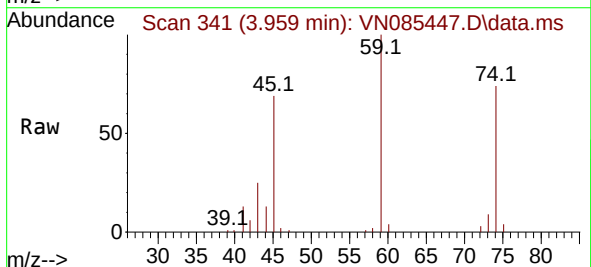
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

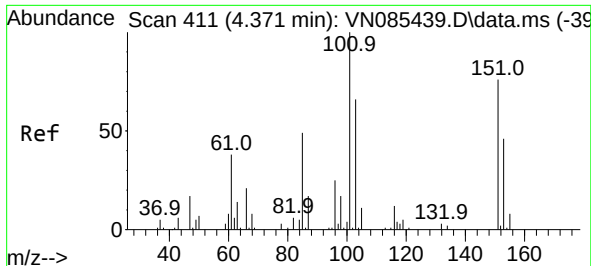
Tgt Ion:101 Resp: 227366
 Ion Ratio Lower Upper
 101 100
 103 63.9 51.4 77.2



#8
 Diethyl Ether
 Concen: 45.767 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. 0.006 min
 Lab File: VN085447.D
 Acq: 15 Jan 2025 09:03

Tgt Ion: 74 Resp: 73785
 Ion Ratio Lower Upper
 74 100
 45 96.7 49.7 149.1

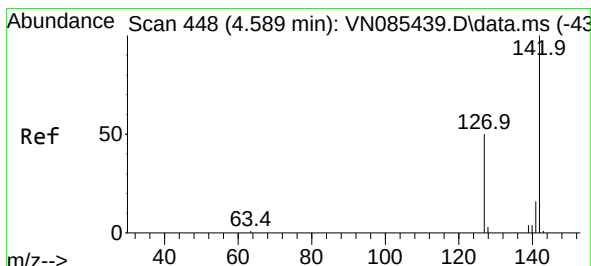
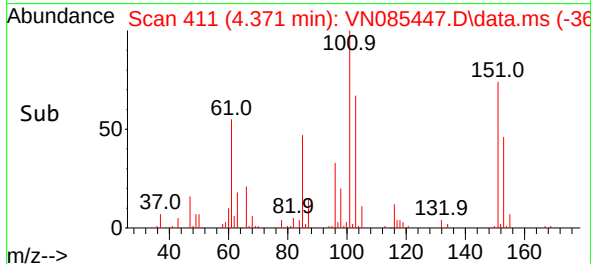
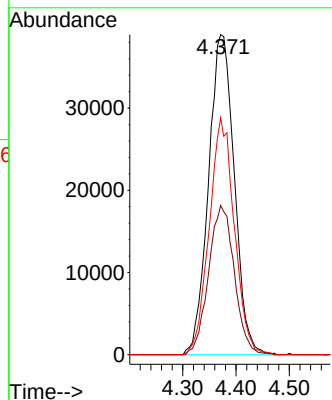
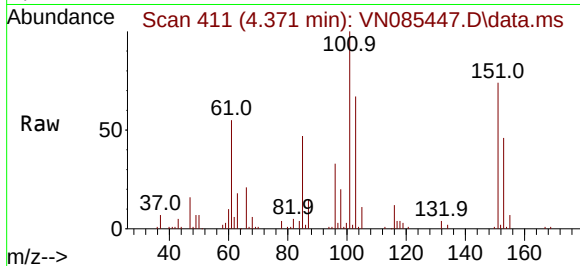




#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.808 ug/l
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

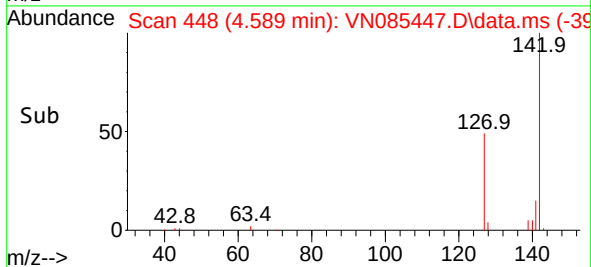
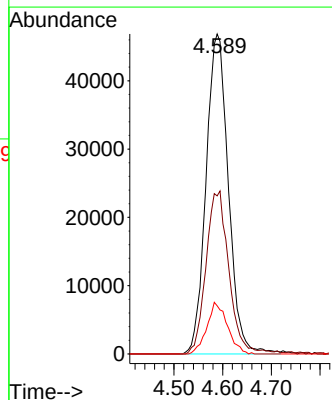
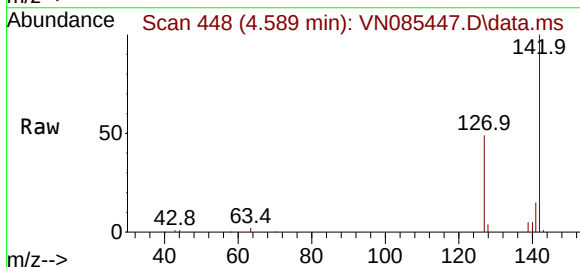
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

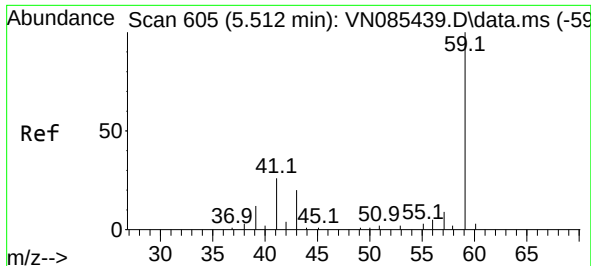
Tgt Ion:101 Resp: 130921
Ion Ratio Lower Upper
101 100
85 46.6 37.8 56.8
151 72.0 58.8 88.2



#10
Methyl Iodide
Concen: 49.511 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:142 Resp: 149033
Ion Ratio Lower Upper
142 100
127 49.4 40.3 60.5
141 15.0 12.8 19.2

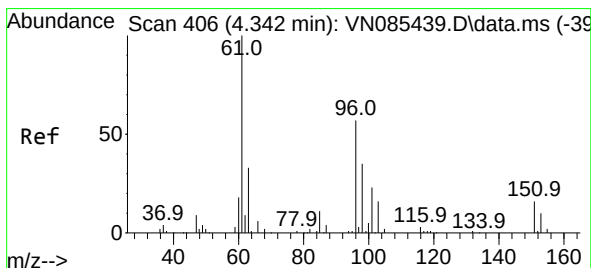
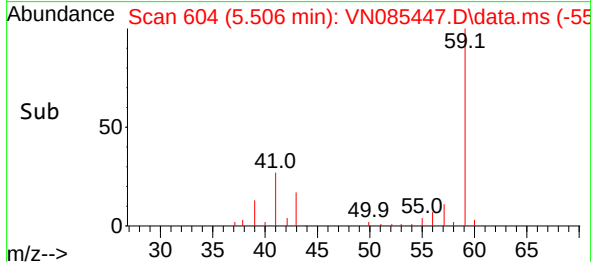
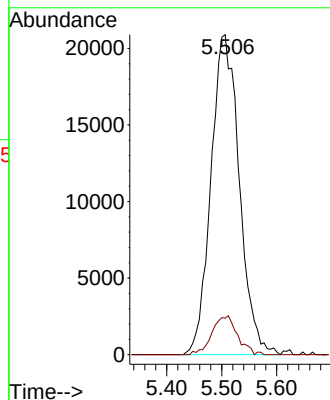
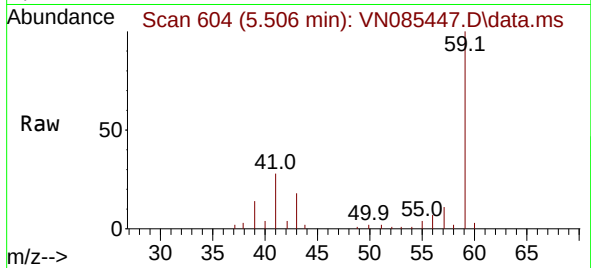




#11
Tert butyl alcohol
Concen: 185.463 ug/l
RT: 5.506 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

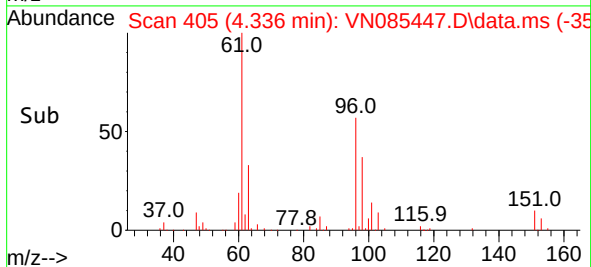
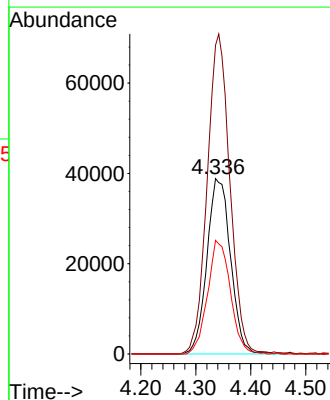
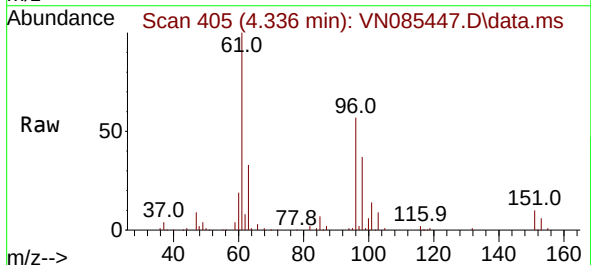
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

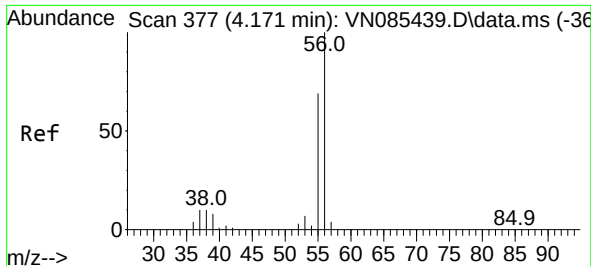
Tgt Ion: 59 Resp: 74825
Ion Ratio Lower Upper
59 100
57 10.9 8.6 13.0



#12
1,1-Dichloroethene
Concen: 49.459 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 96 Resp: 115861
Ion Ratio Lower Upper
96 100
61 176.0 141.0 211.4
98 64.8 49.0 73.6

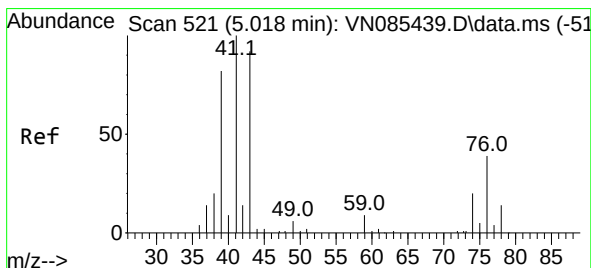
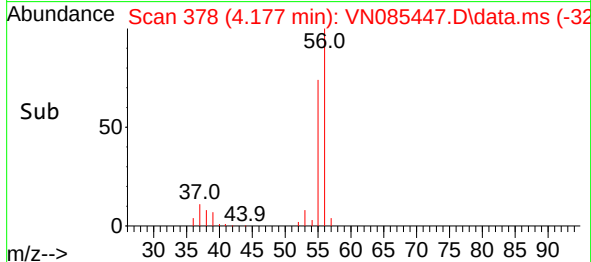
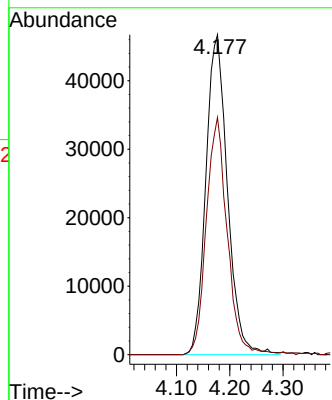
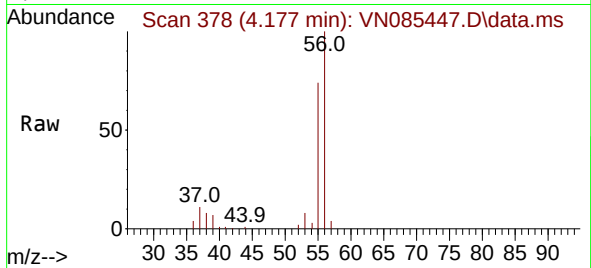




#13
Acrolein
Concen: 238.713 ug/l
RT: 4.177 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

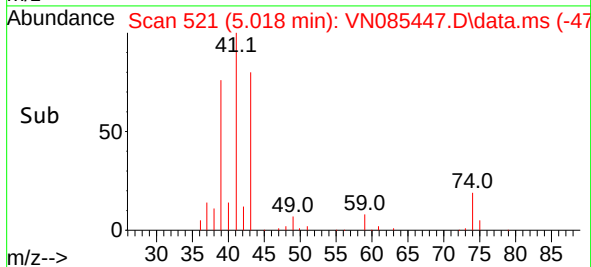
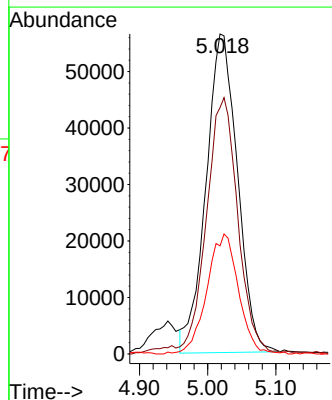
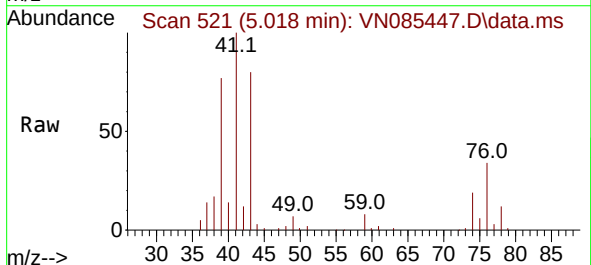
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

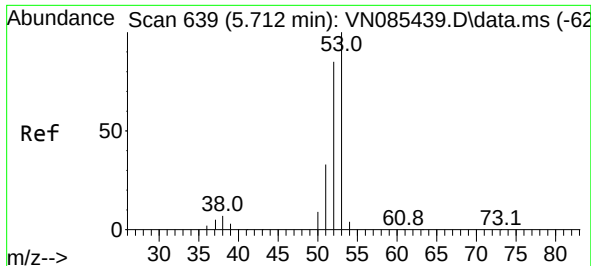
Tgt Ion: 56 Resp: 131470
Ion Ratio Lower Upper
56 100
55 71.5 56.3 84.5



#14
Allyl chloride
Concen: 47.714 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 41 Resp: 181372
Ion Ratio Lower Upper
41 100
39 81.7 64.4 96.6
76 37.8 30.5 45.7

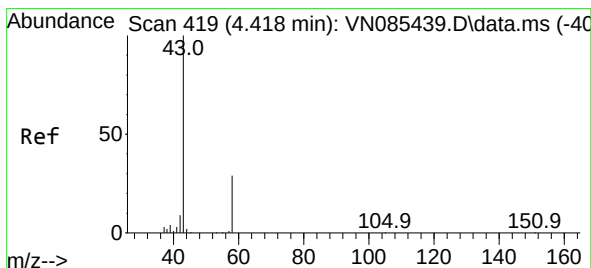
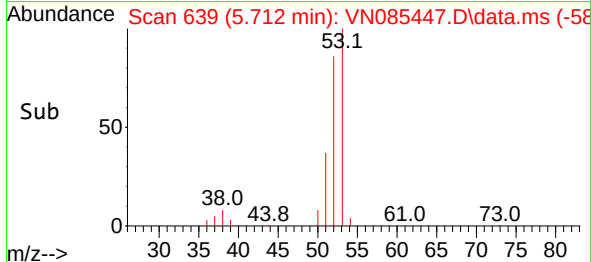
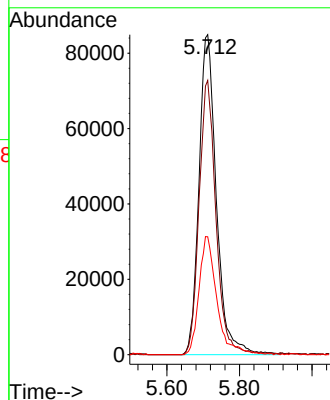
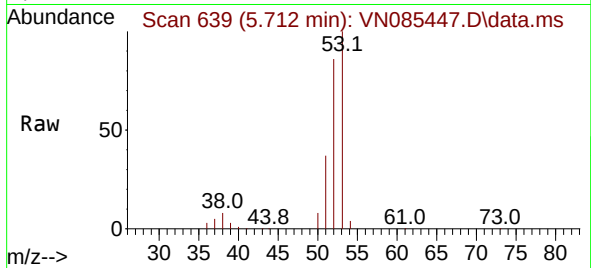




#15
Acrylonitrile
Concen: 221.624 ug/l
RT: 5.712 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

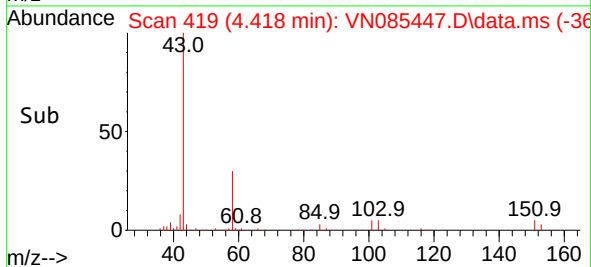
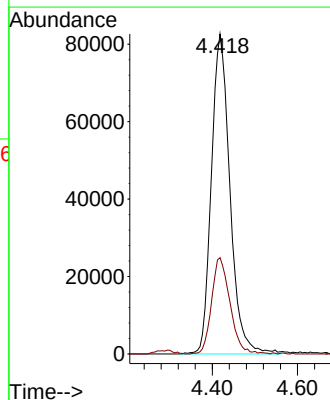
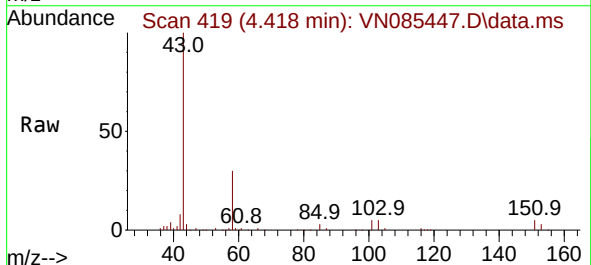
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

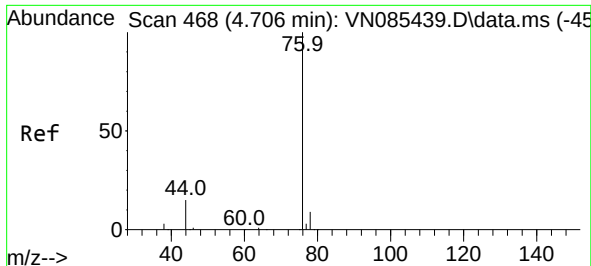
Tgt Ion: 53 Resp: 284008
Ion Ratio Lower Upper
53 100
52 82.6 65.5 98.3
51 37.8 29.8 44.8



#16
Acetone
Concen: 220.081 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 43 Resp: 250548
Ion Ratio Lower Upper
43 100
58 29.9 23.8 35.6

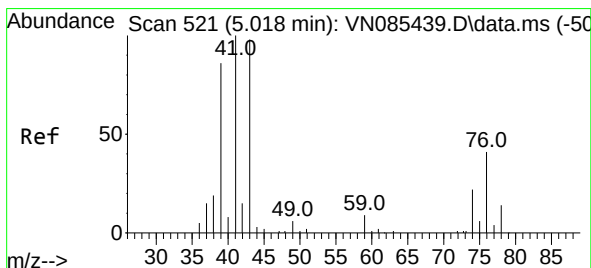
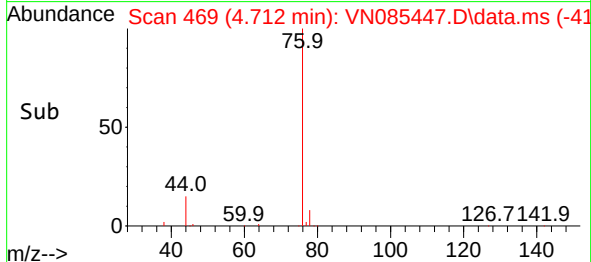
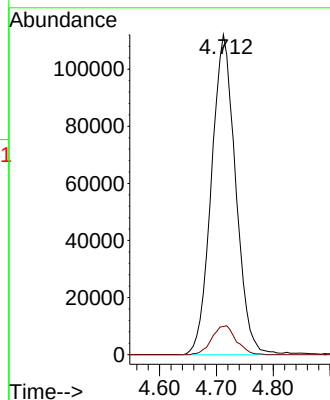
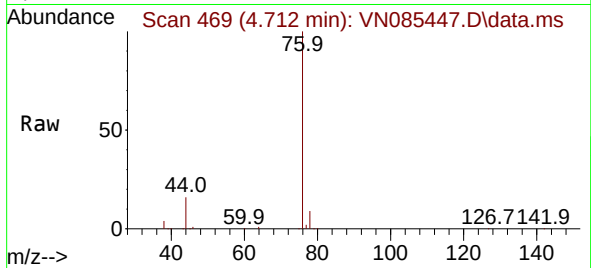




#17
Carbon Disulfide
Concen: 46.066 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

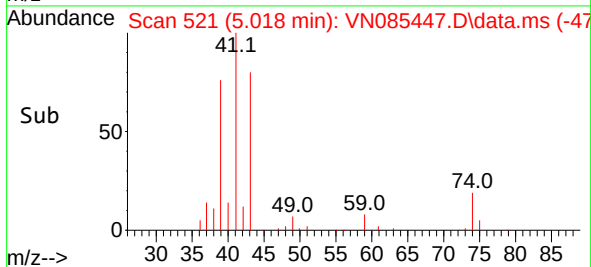
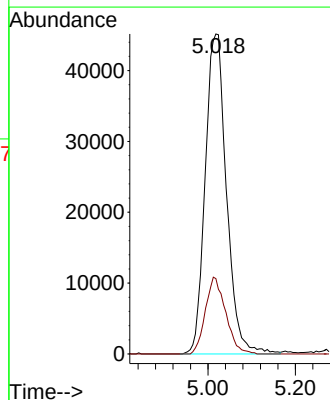
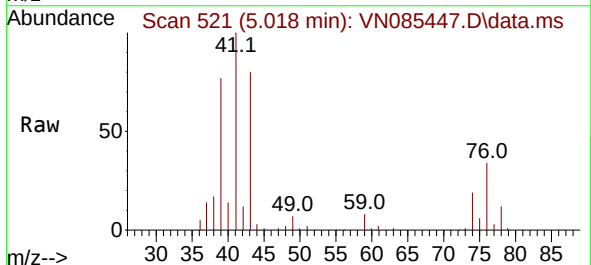
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

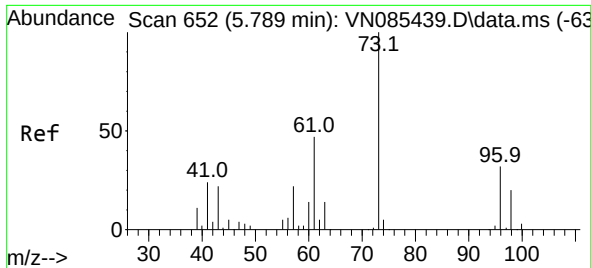
Tgt Ion: 76 Resp: 332259
Ion Ratio Lower Upper
76 100
78 8.8 6.9 10.3



#18
Methyl Acetate
Concen: 44.146 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 43 Resp: 152823
Ion Ratio Lower Upper
43 100
74 22.9 18.6 28.0

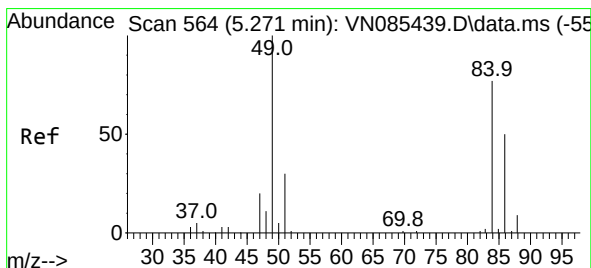
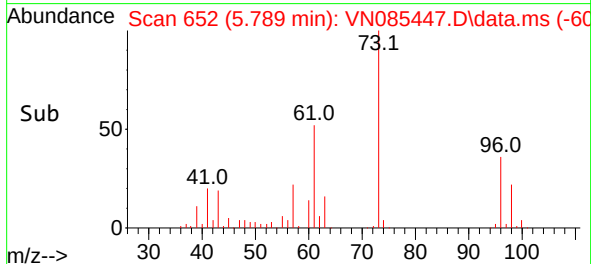
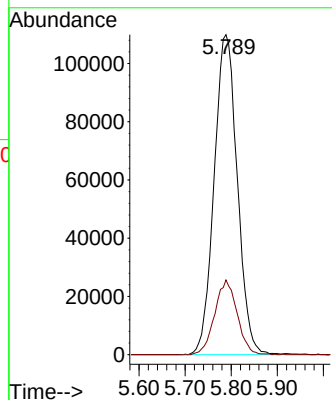
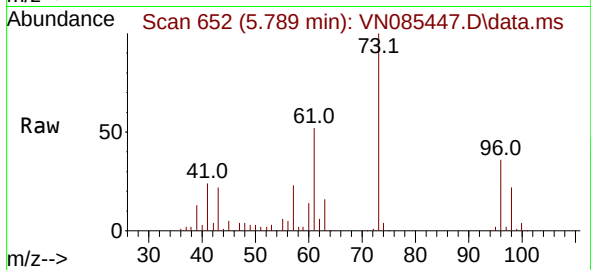




#19
Methyl tert-butyl Ether
Concen: 50.410 ug/l
RT: 5.789 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

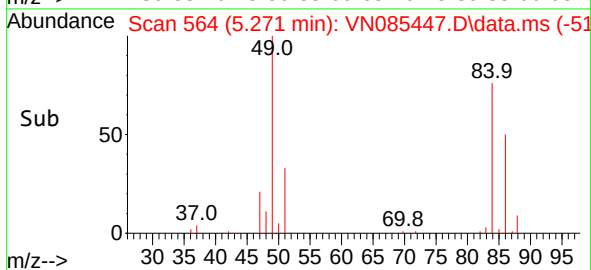
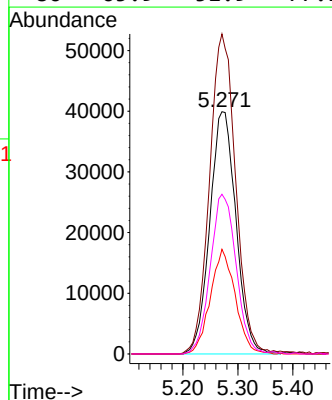
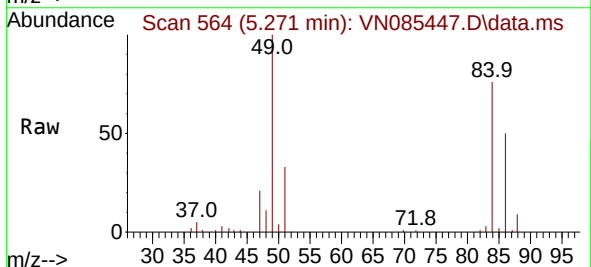
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

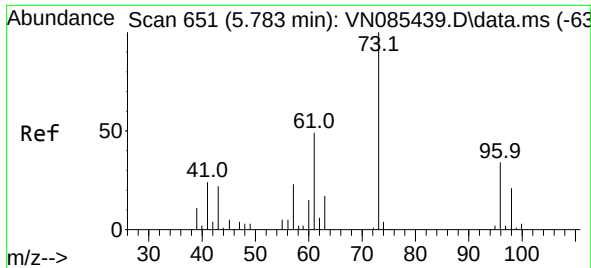
Tgt Ion: 73 Resp: 383442
Ion Ratio Lower Upper
73 100
57 23.4 17.8 26.8



#20
Methylene Chloride
Concen: 46.863 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 84 Resp: 132073
Ion Ratio Lower Upper
84 100
49 132.1 104.1 156.1
51 43.2 31.0 46.4
86 65.9 51.9 77.9

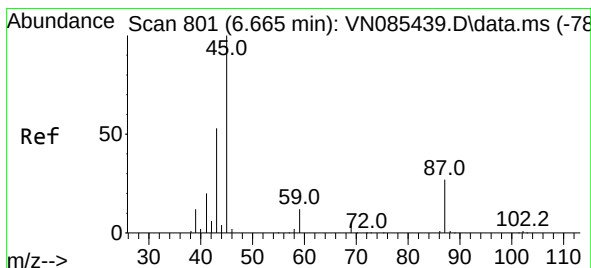
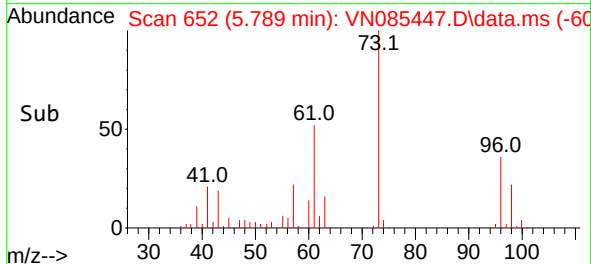
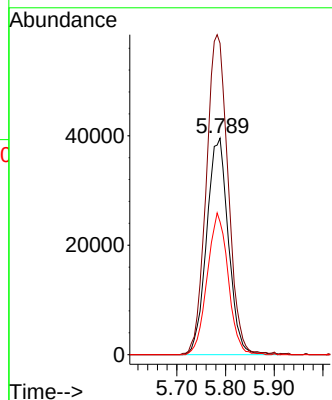
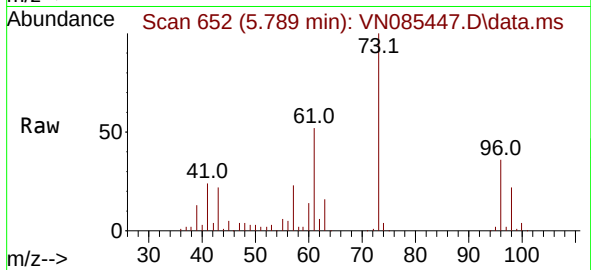




#21
trans-1,2-Dichloroethene
Concen: 49.008 ug/l
RT: 5.789 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

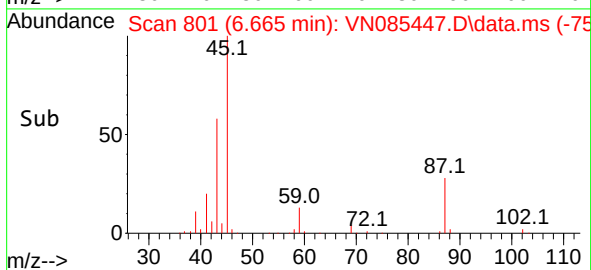
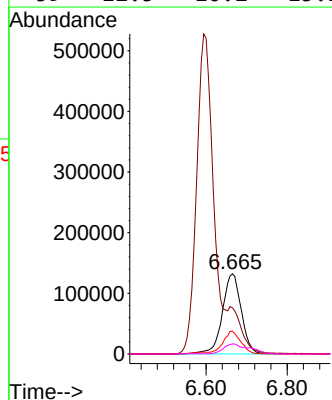
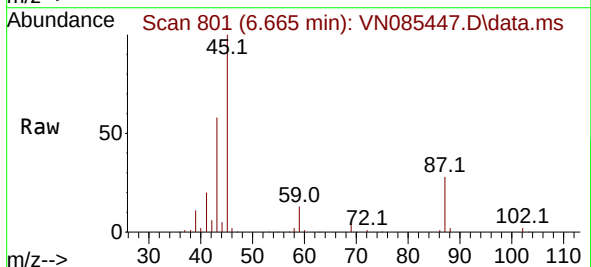
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

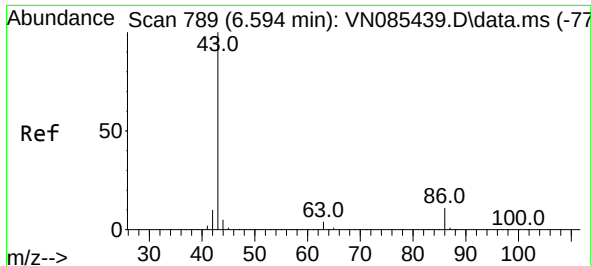
Tgt Ion: 96 Resp: 122694
Ion Ratio Lower Upper
96 100
61 143.8 115.7 173.5
98 61.4 49.8 74.8



#22
Diisopropyl ether
Concen: 50.865 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 45 Resp: 429155
Ion Ratio Lower Upper
45 100
43 56.6 45.0 67.6
87 28.3 21.8 32.8
59 12.5 10.2 15.2

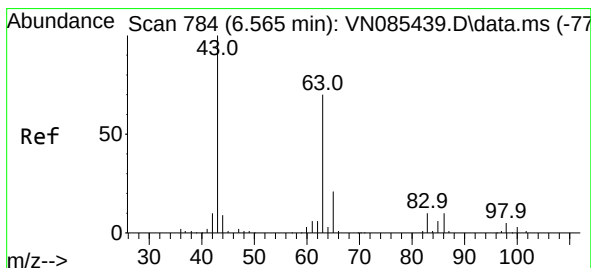
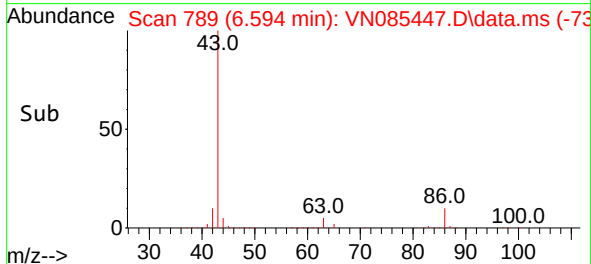
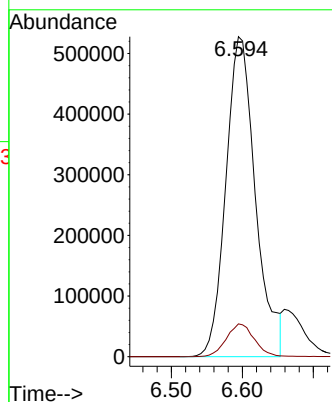
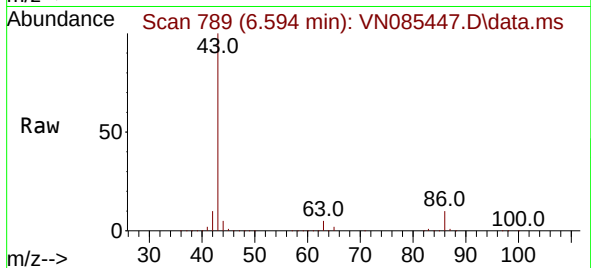




#23
 Vinyl Acetate
 Concen: 259.270 ug/l
 RT: 6.594 min Scan# 789
 Delta R.T. -0.000 min
 Lab File: VN085447.D
 Acq: 15 Jan 2025 09:03

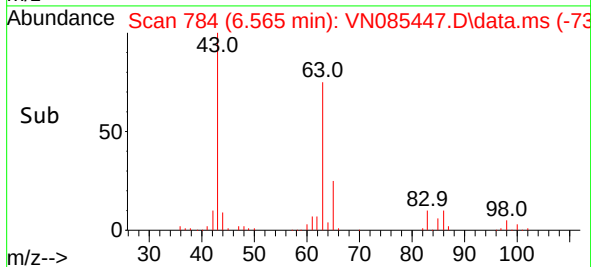
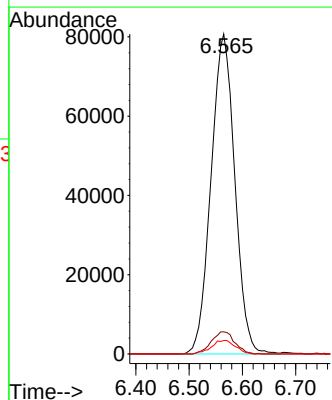
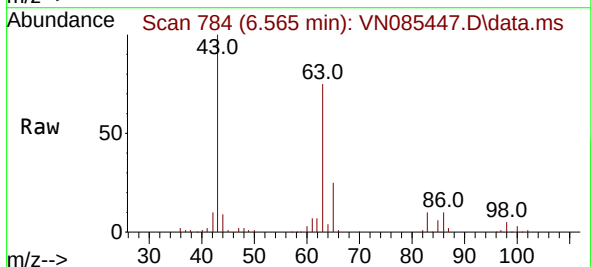
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

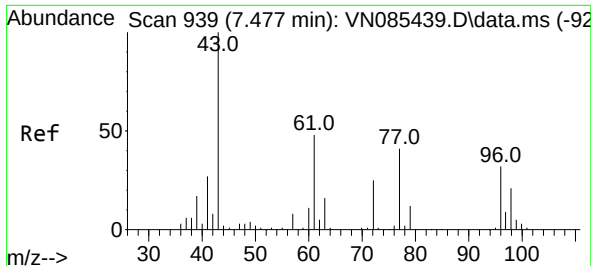
Tgt Ion: 43 Resp: 1530873
 Ion Ratio Lower Upper
 43 100
 86 10.2 8.4 12.6



#24
 1,1-Dichloroethane
 Concen: 48.606 ug/l
 RT: 6.565 min Scan# 784
 Delta R.T. -0.000 min
 Lab File: VN085447.D
 Acq: 15 Jan 2025 09:03

Tgt Ion: 63 Resp: 250056
 Ion Ratio Lower Upper
 63 100
 98 6.9 3.3 9.8
 100 4.2 2.0 6.0

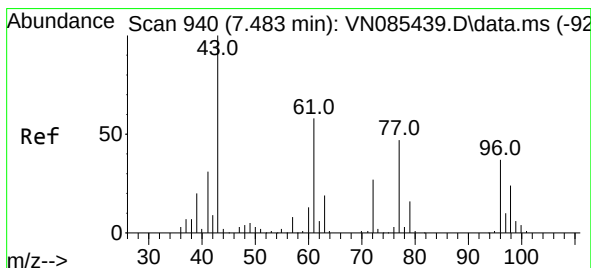
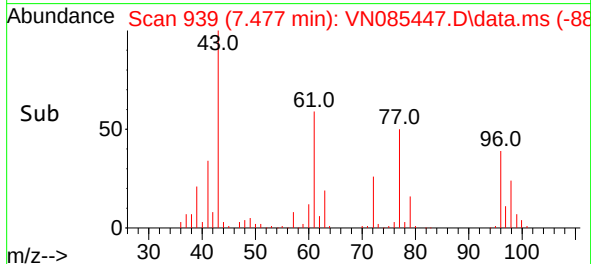
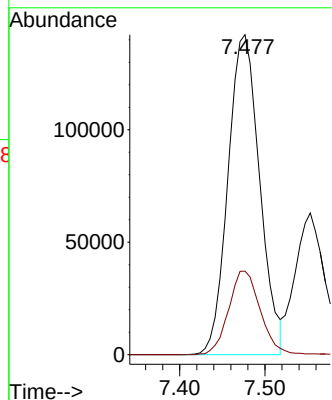
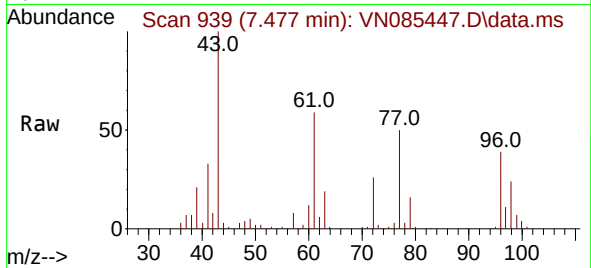




#25
2-Butanone
Concen: 219.497 ug/l
RT: 7.477 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

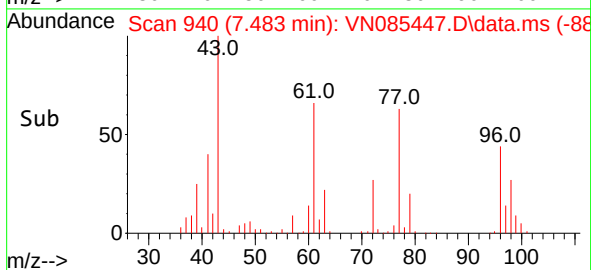
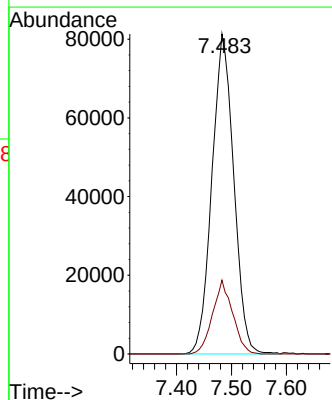
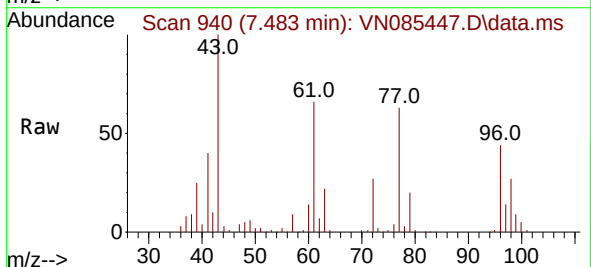
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

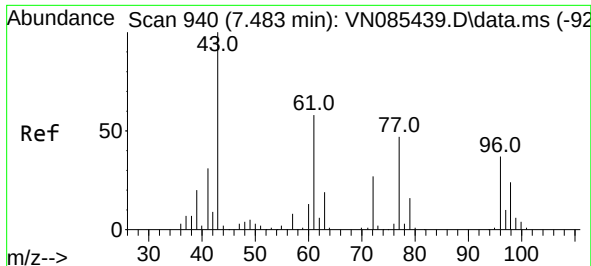
Tgt Ion: 43 Resp: 367726
Ion Ratio Lower Upper
43 100
72 26.1 20.2 30.4



#26
2,2-Dichloropropane
Concen: 53.956 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 77 Resp: 224423
Ion Ratio Lower Upper
77 100
97 21.2 10.7 32.1



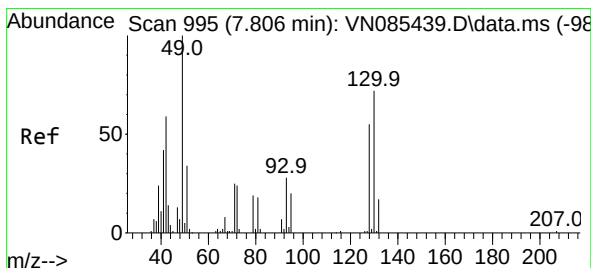
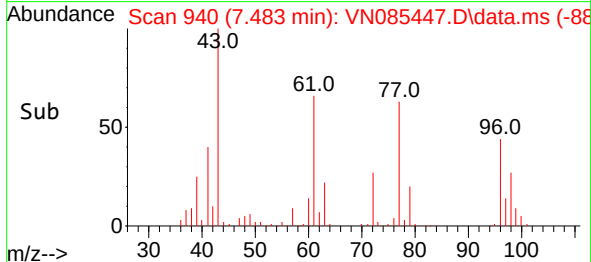
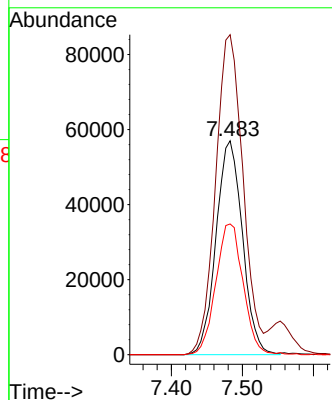
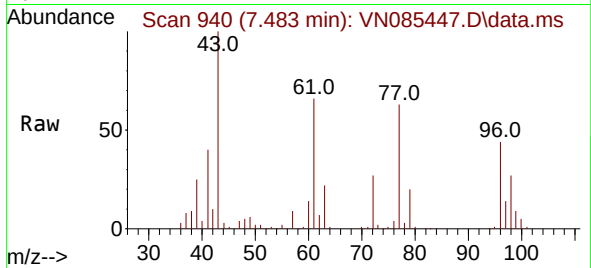


#27
 cis-1,2-Dichloroethene
 Concen: 49.893 ug/l
 RT: 7.483 min Scan# 940
 Delta R.T. -0.000 min
 Lab File: VN085447.D
 Acq: 15 Jan 2025 09:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 96 Resp: 147121

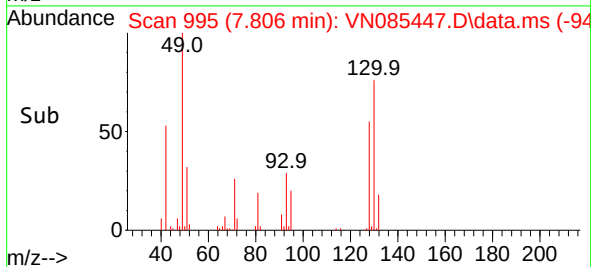
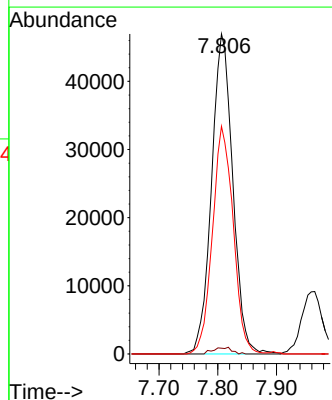
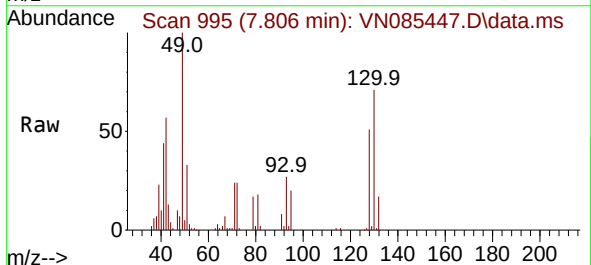
Ion	Ratio	Lower	Upper
96	100		
61	155.3	0.0	311.8
98	63.3	0.0	126.0

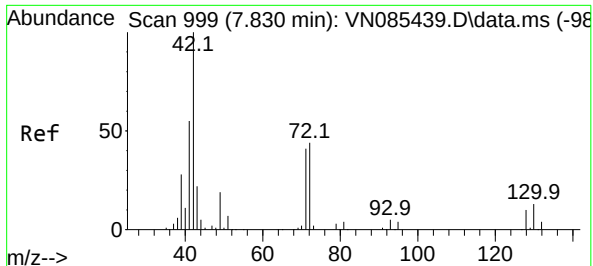


#28
 Bromochloromethane
 Concen: 49.226 ug/l
 RT: 7.806 min Scan# 995
 Delta R.T. -0.000 min
 Lab File: VN085447.D
 Acq: 15 Jan 2025 09:03

Tgt Ion: 49 Resp: 117821

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.4
130	69.6	55.0	82.4





#29

Tetrahydrofuran

Concen: 231.013 ug/l

RT: 7.830 min Scan# 999

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

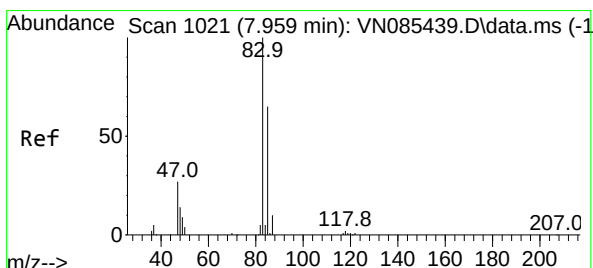
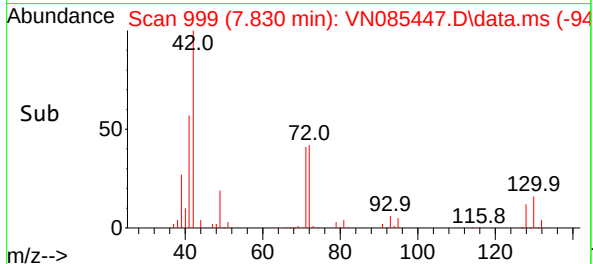
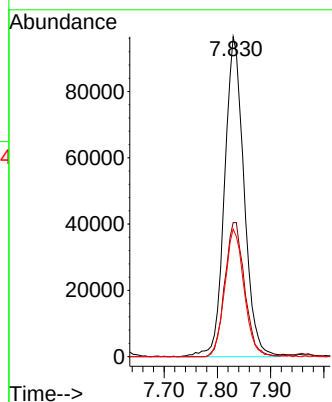
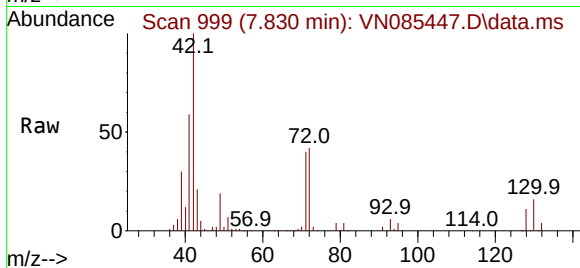
Tgt Ion: 42 Resp: 245371

Ion Ratio Lower Upper

42 100

72 42.6 34.2 51.2

71 39.6 32.5 48.7



#30

Chloroform

Concen: 47.743 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.000 min

Lab File: VN085447.D

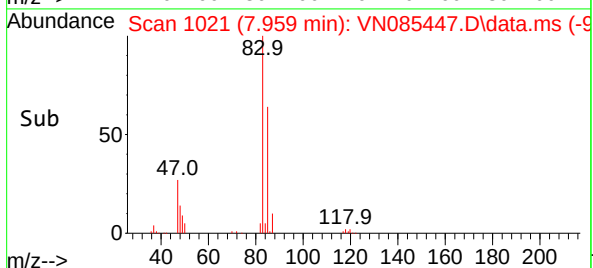
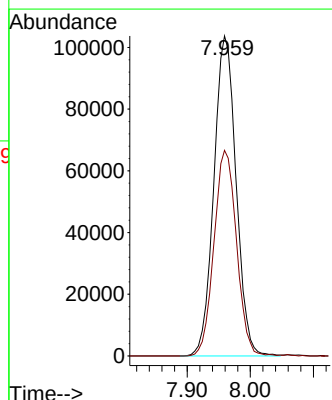
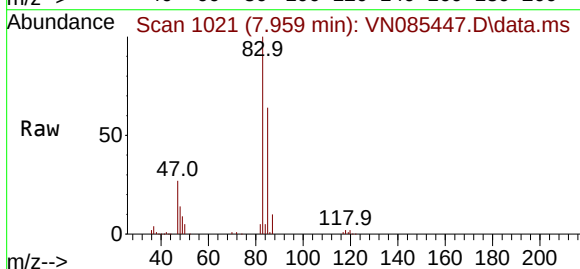
Acq: 15 Jan 2025 09:03

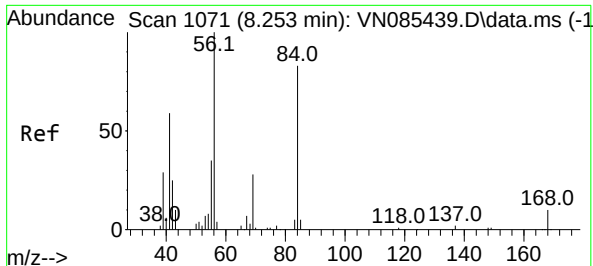
Tgt Ion: 83 Resp: 253854

Ion Ratio Lower Upper

83 100

85 64.3 51.8 77.6

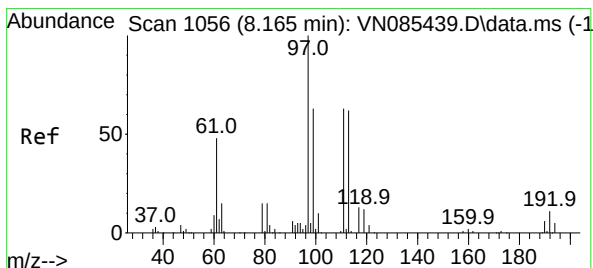
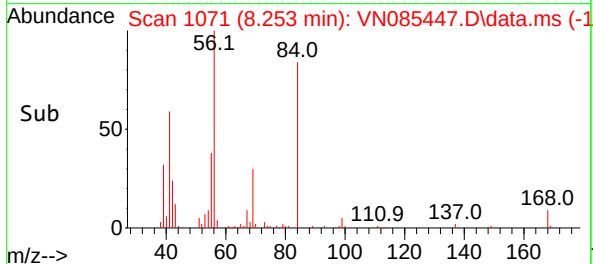
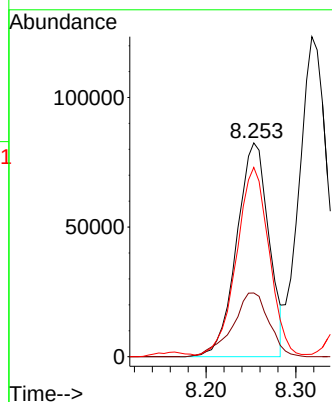
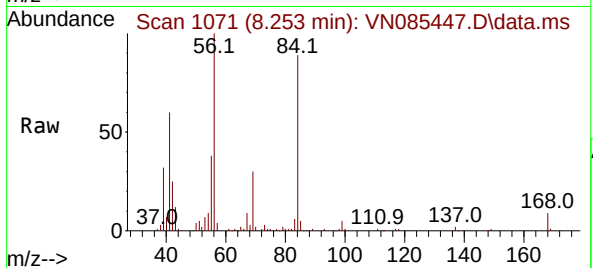




#31
Cyclohexane
Concen: 45.962 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

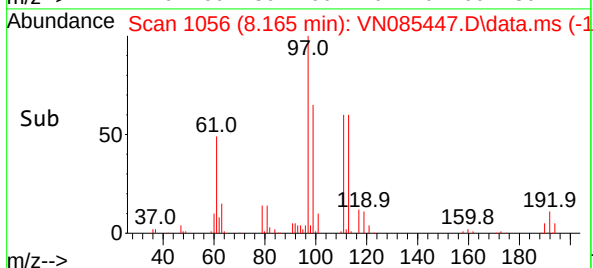
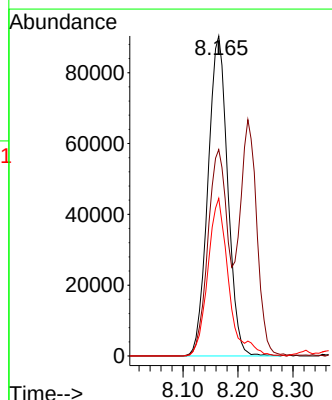
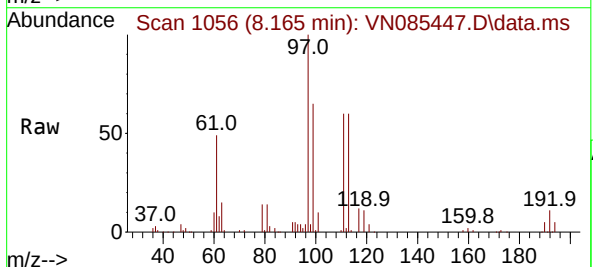
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

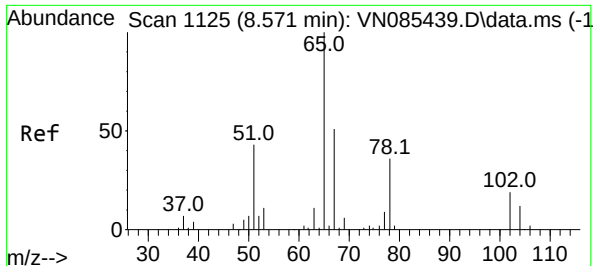
Tgt Ion: 56 Resp: 205522
Ion Ratio Lower Upper
56 100
69 29.8 22.2 33.4
84 86.8 66.4 99.6



#32
1,1,1-Trichloroethane
Concen: 48.453 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 97 Resp: 225987
Ion Ratio Lower Upper
97 100
99 63.5 49.8 74.6
61 51.8 41.4 62.2





#33

1,2-Dichloroethane-d4

Concen: 50.745 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

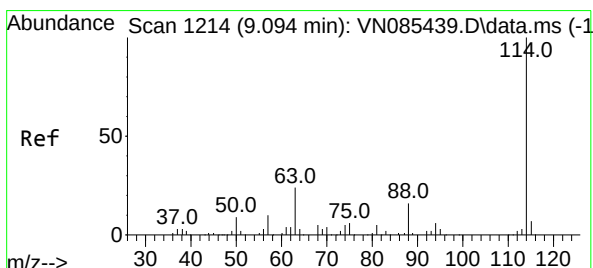
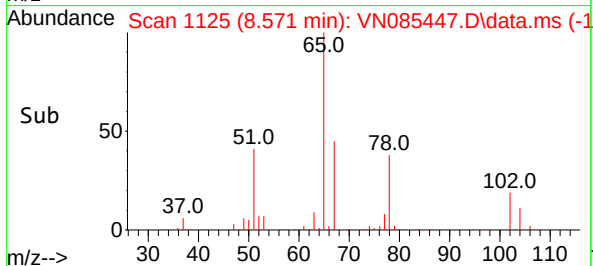
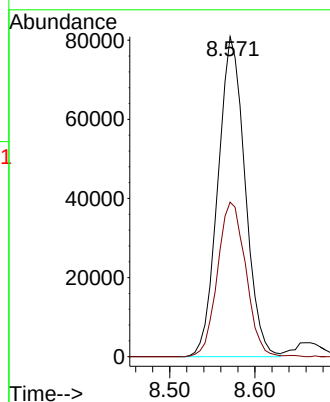
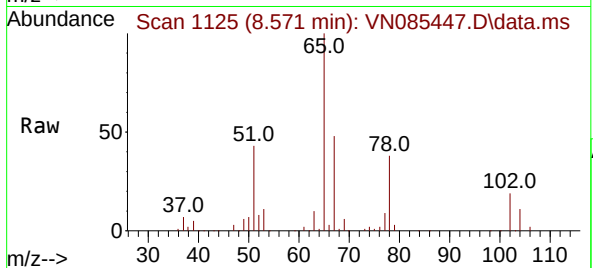
VSTDCCC050

Tgt Ion: 65 Resp: 178793

Ion Ratio Lower Upper

65 100

67 50.2 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

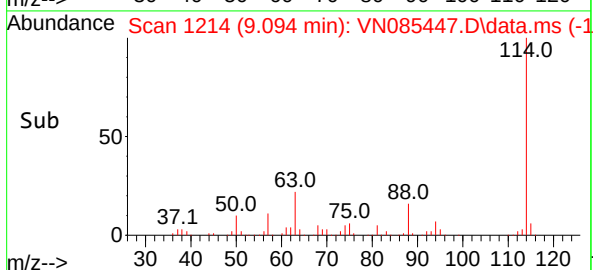
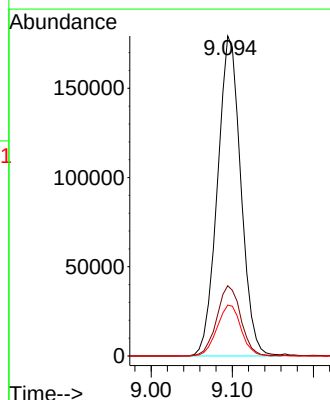
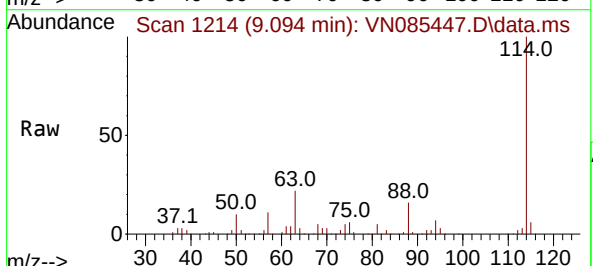
Tgt Ion: 114 Resp: 358609

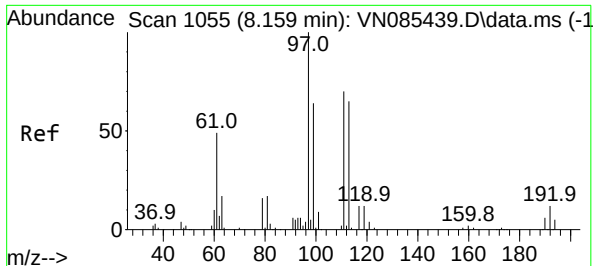
Ion Ratio Lower Upper

114 100

63 22.0 0.0 47.6

88 15.9 0.0 32.6





#35

Dibromofluoromethane

Concen: 53.211 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

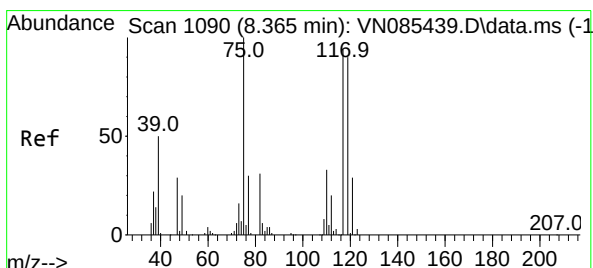
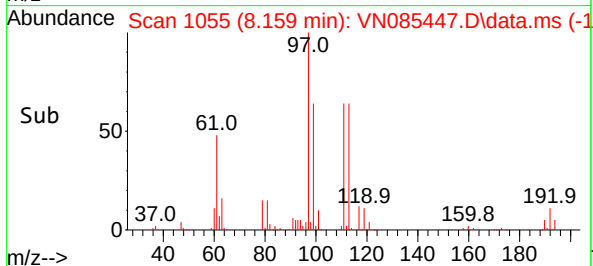
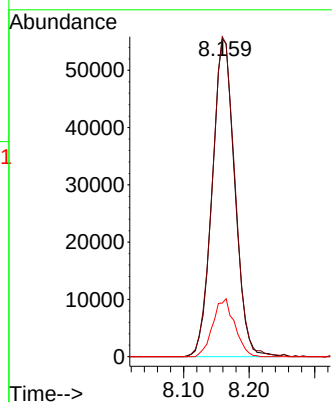
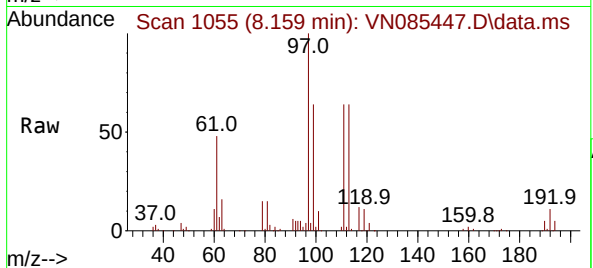
Tgt Ion:113 Resp: 132381

Ion Ratio Lower Upper

113 100

111 101.2 82.7 124.1

192 17.7 14.3 21.5



#36

1,1-Dichloropropene

Concen: 51.631 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

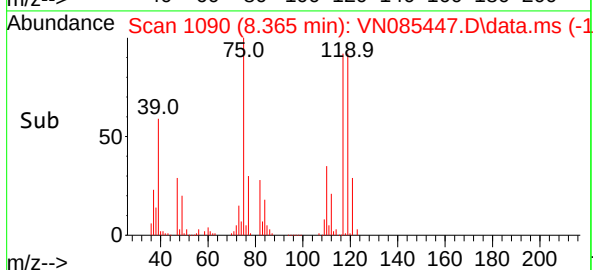
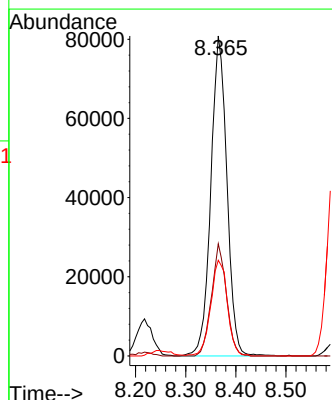
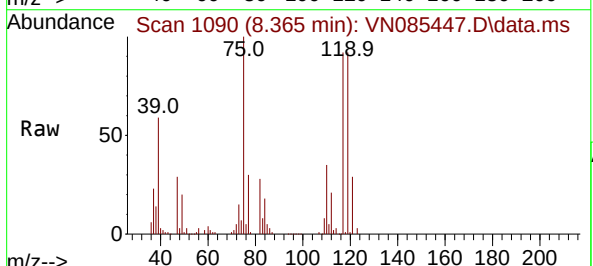
Tgt Ion: 75 Resp: 180278

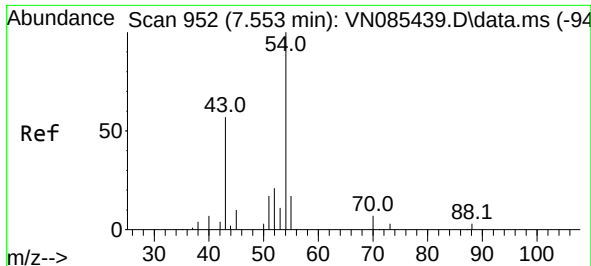
Ion Ratio Lower Upper

75 100

110 32.6 16.5 49.5

77 30.9 24.4 36.6

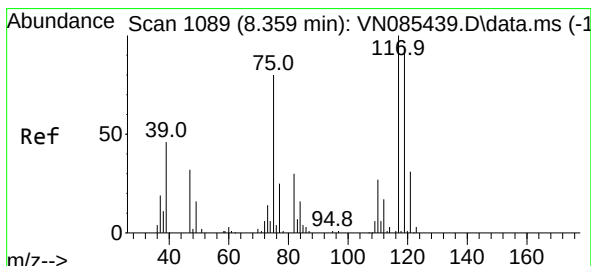
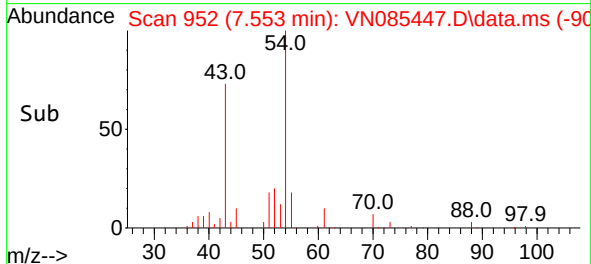
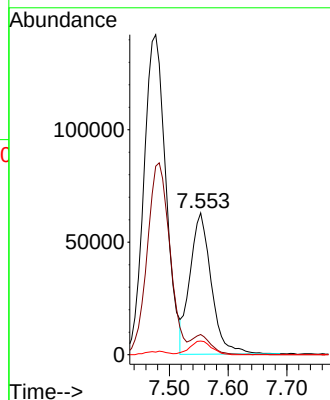
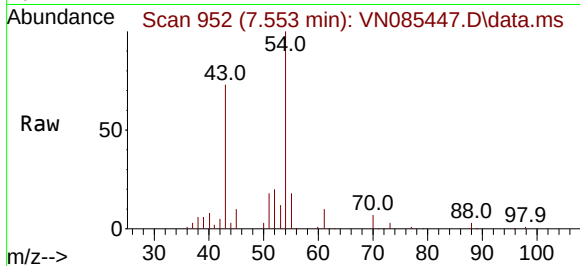




#37
Ethyl Acetate
Concen: 44.802 ug/l
RT: 7.553 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

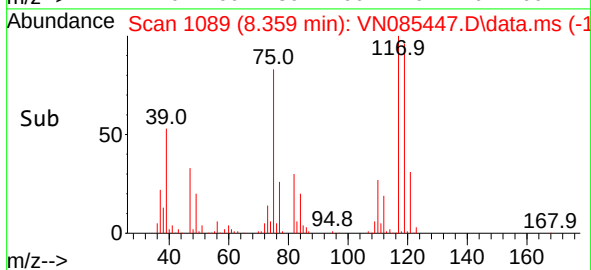
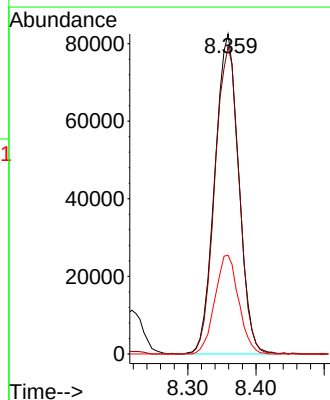
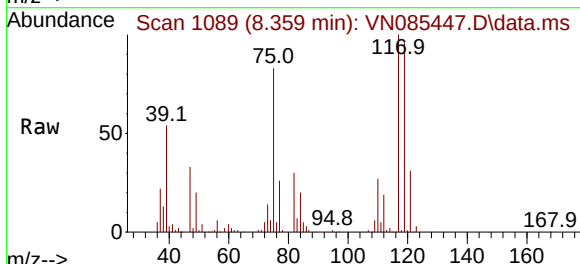
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

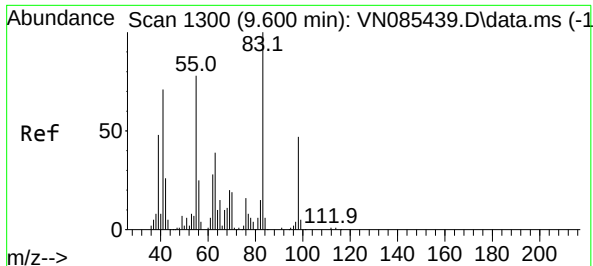
Tgt Ion: 43 Resp: 157899
Ion Ratio Lower Upper
43 100
61 11.7 10.9 16.3
70 9.8 7.5 11.3



#38
Carbon Tetrachloride
Concen: 50.466 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 117 Resp: 201730
Ion Ratio Lower Upper
117 100
119 96.0 75.4 113.2
121 30.9 24.6 37.0





#39

Methylcyclohexane

Concen: 57.732 ug/l

RT: 9.594 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

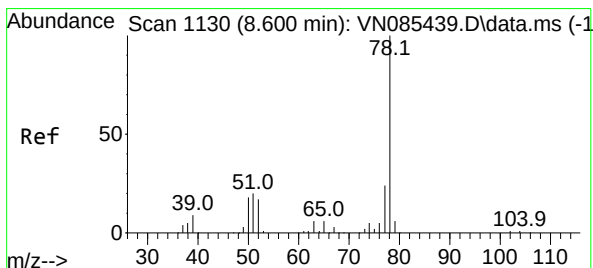
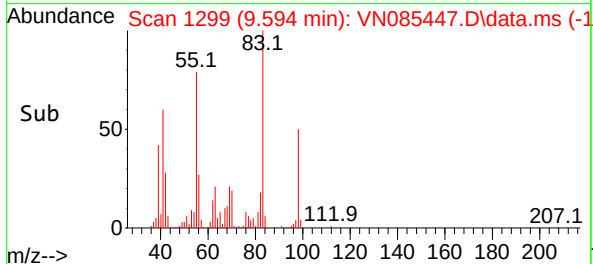
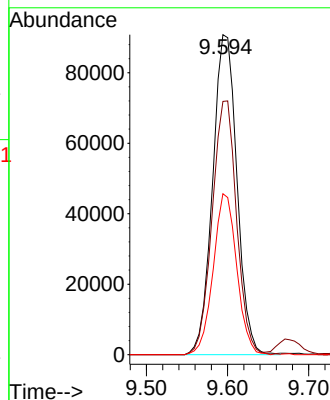
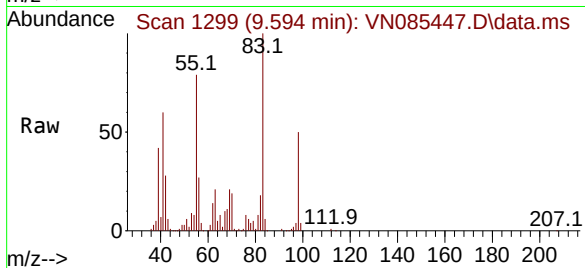
Tgt Ion: 83 Resp: 189425

Ion Ratio Lower Upper

83 100

55 79.1 62.6 94.0

98 50.3 37.7 56.5



#40

Benzene

Concen: 51.417 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085447.D

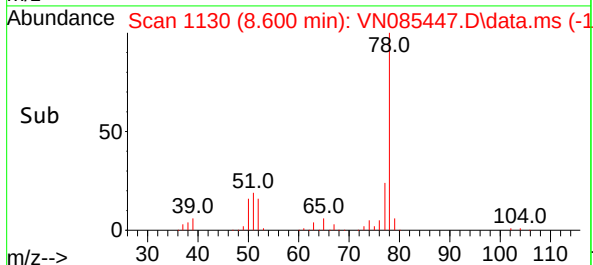
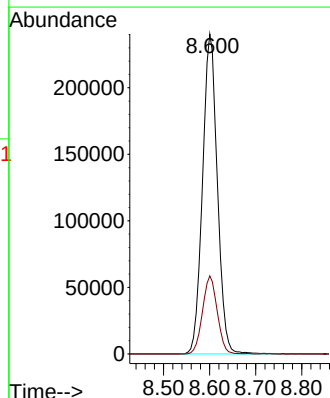
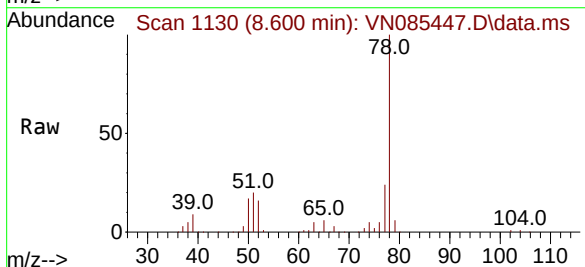
Acq: 15 Jan 2025 09:03

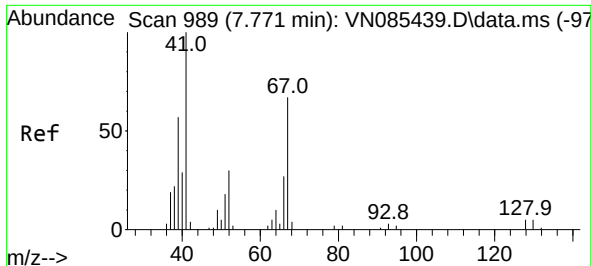
Tgt Ion: 78 Resp: 539436

Ion Ratio Lower Upper

78 100

77 24.4 19.0 28.6

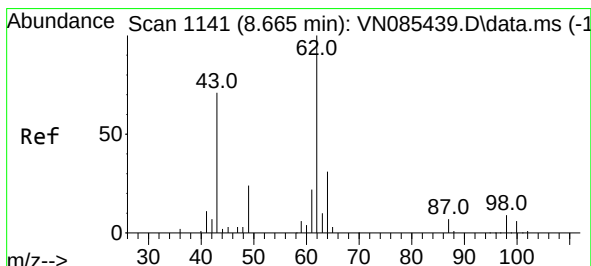
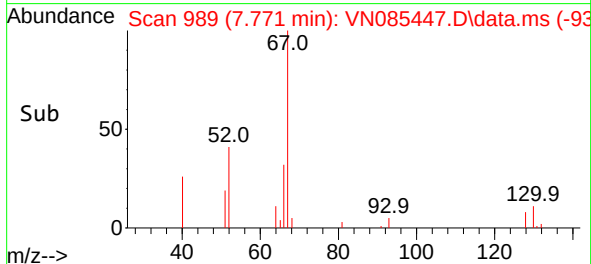
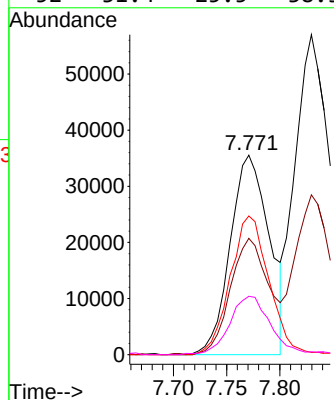
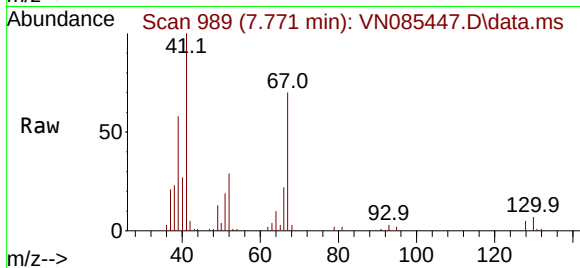




#41
Methacrylonitrile
Concen: 49.387 ug/l
RT: 7.771 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

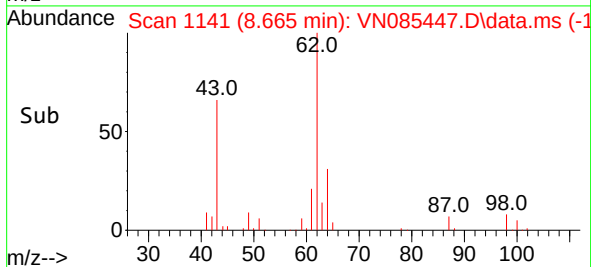
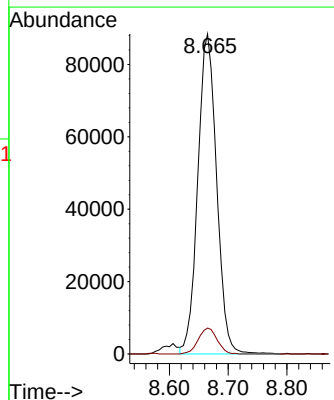
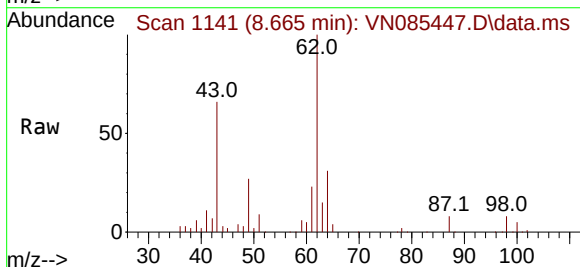
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

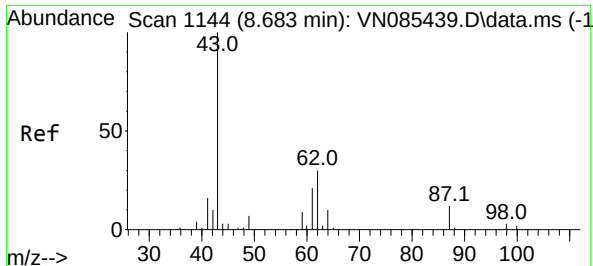
Tgt Ion:	41	Resp:	90556
Ion	Ratio	Lower	Upper
41	100		
39	57.8	46.0	69.0
67	69.2	57.4	86.2
52	31.4	25.5	38.3



#42
1,2-Dichloroethane
Concen: 49.881 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:	62	Resp:	197097
Ion	Ratio	Lower	Upper
62	100		
98	8.1	0.0	17.0

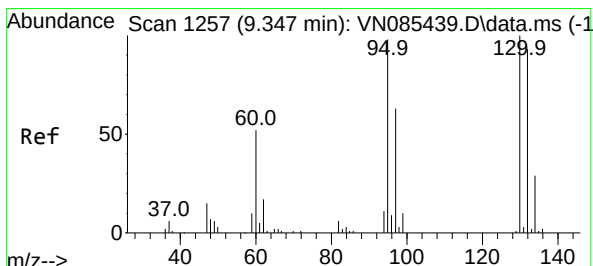
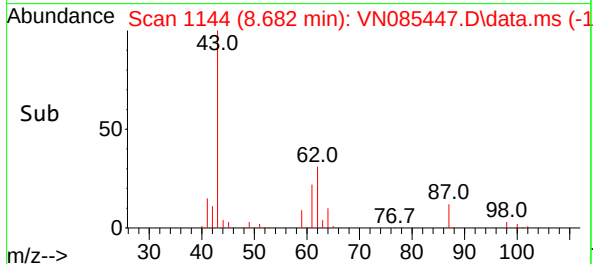
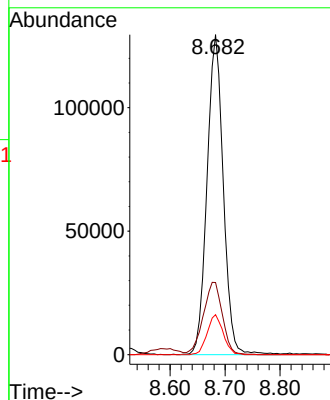
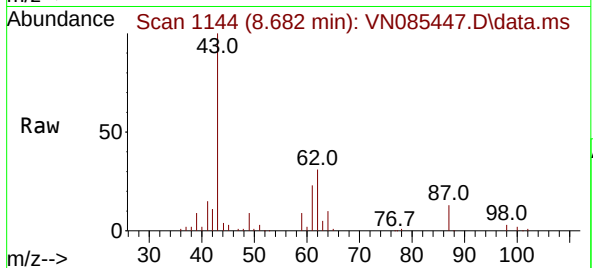




#43
Isopropyl Acetate
Concen: 47.153 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

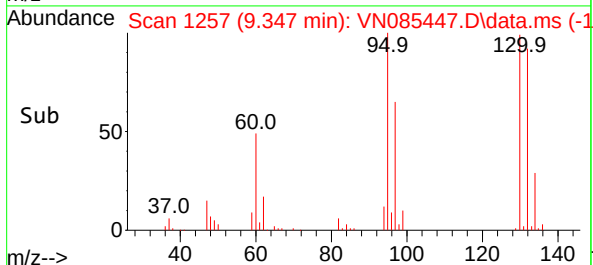
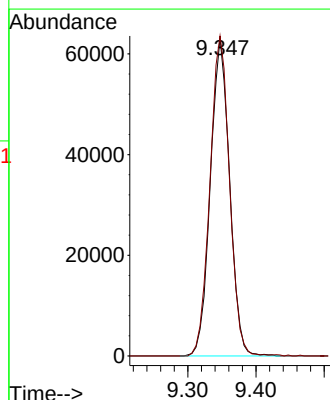
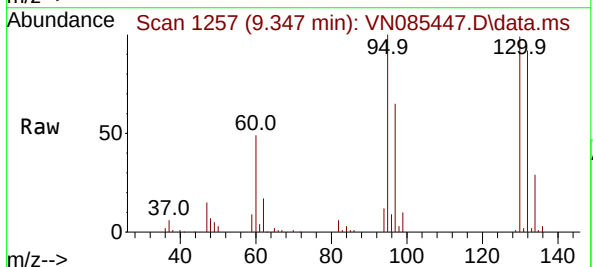
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

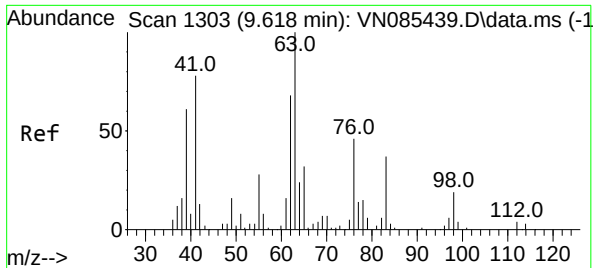
Tgt Ion: 43 Resp: 266284
Ion Ratio Lower Upper
43 100
61 26.6 20.7 31.1
87 12.3 9.8 14.8



#44
Trichloroethene
Concen: 50.700 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:130 Resp: 123817
Ion Ratio Lower Upper
130 100
95 100.6 0.0 195.8

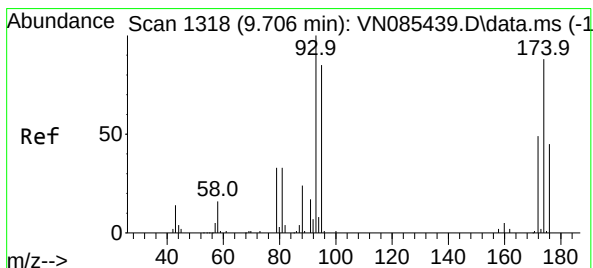
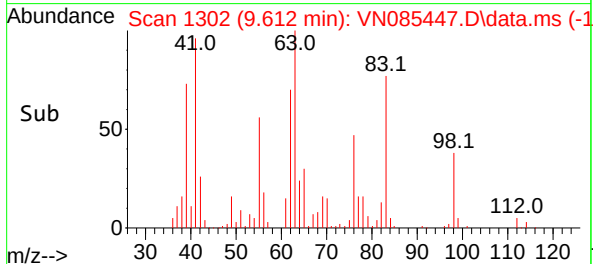
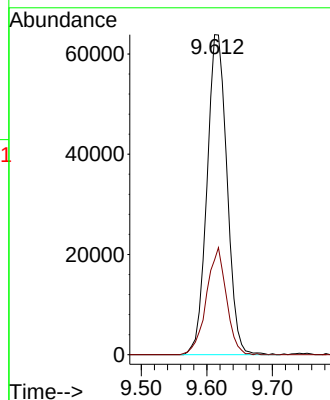
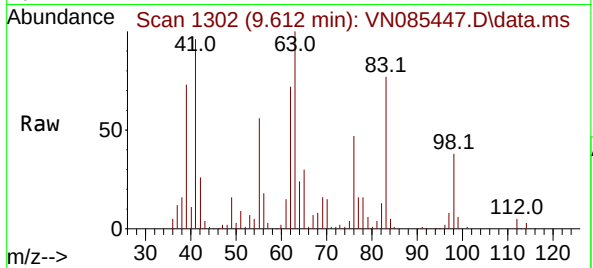




#45
1,2-Dichloropropane
Concen: 50.468 ug/l
RT: 9.612 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

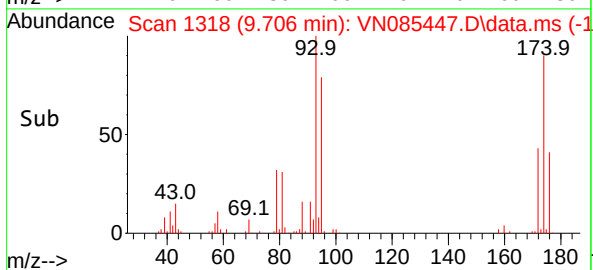
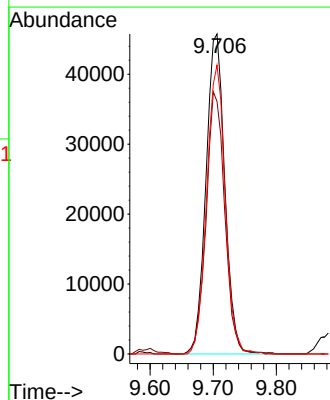
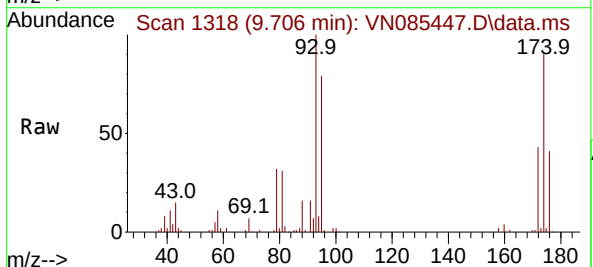
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

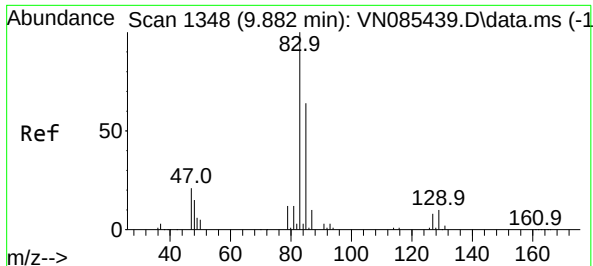
Tgt Ion: 63 Resp: 135244
Ion Ratio Lower Upper
63 100
65 29.6 25.6 38.4



#46
Dibromomethane
Concen: 48.873 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 93 Resp: 94501
Ion Ratio Lower Upper
93 100
95 81.3 64.7 97.1
174 88.9 69.0 103.4

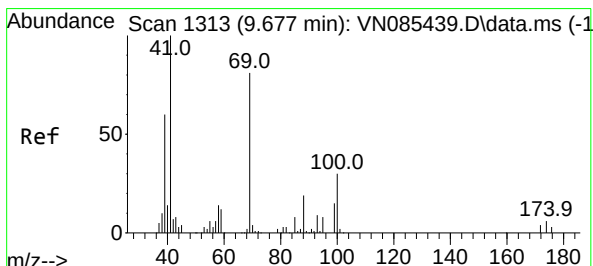
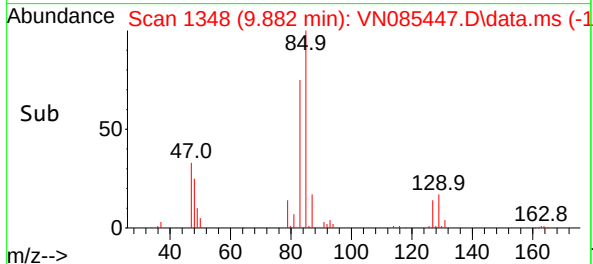
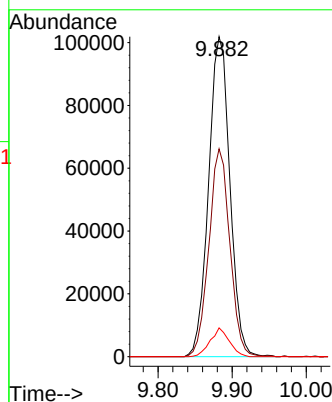
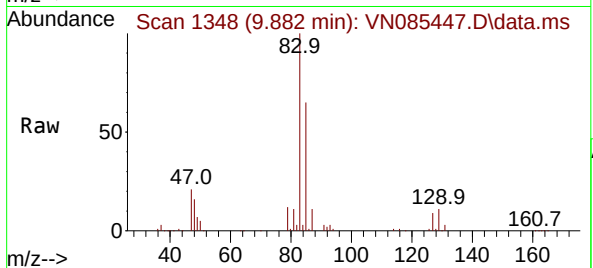




#47
Bromodichloromethane
Concen: 51.671 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. 0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

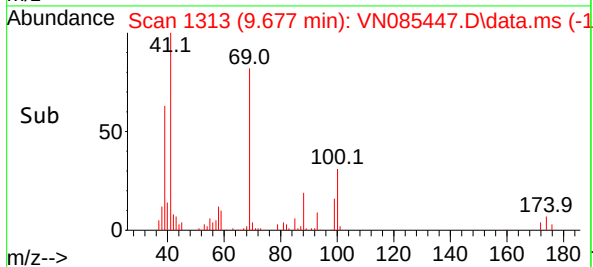
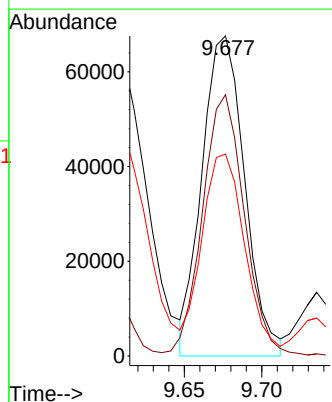
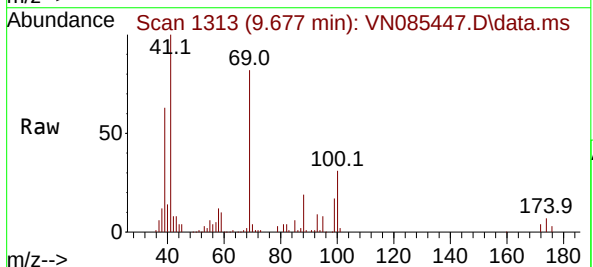
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

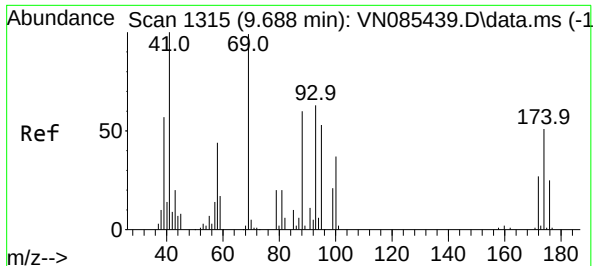
Tgt Ion: 83 Resp: 203552
Ion Ratio Lower Upper
83 100
85 64.9 51.2 76.8
127 9.0 6.5 9.7



#48
Methyl methacrylate
Concen: 50.945 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 41 Resp: 129471
Ion Ratio Lower Upper
41 100
69 80.8 64.7 97.1
39 63.9 49.0 73.6





#49

1,4-Dioxane

Concen: 873.742 ug/l

RT: 9.688 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

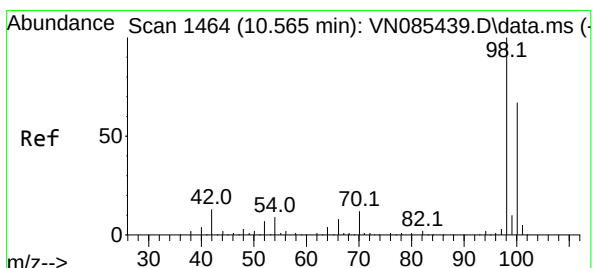
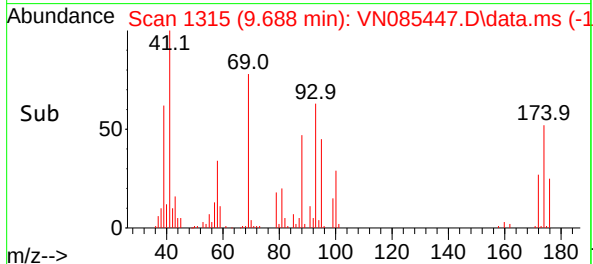
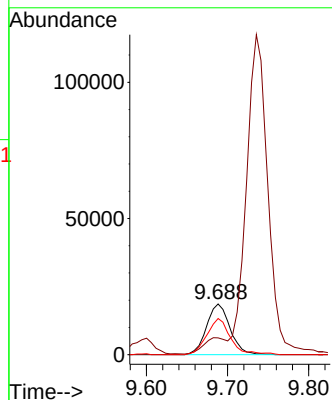
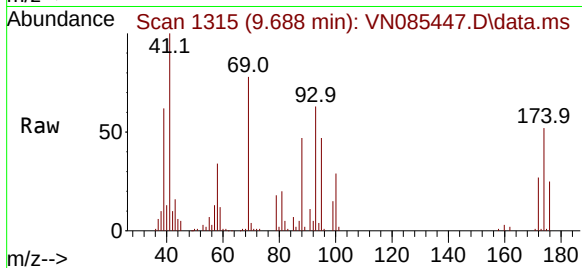
Tgt Ion: 88 Resp: 37393

Ion Ratio Lower Upper

88 100

43 32.7 26.6 39.8

58 72.0 59.5 89.3



#50

Toluene-d8

Concen: 55.032 ug/l

RT: 10.559 min Scan# 1463

Delta R.T. -0.006 min

Lab File: VN085447.D

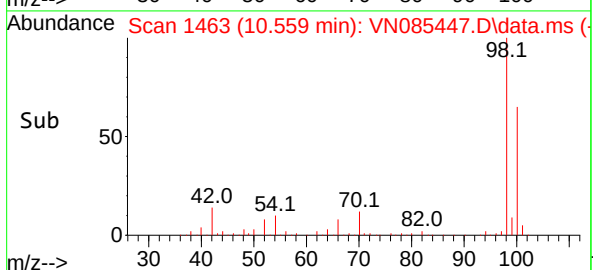
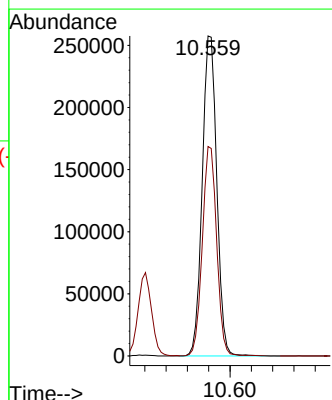
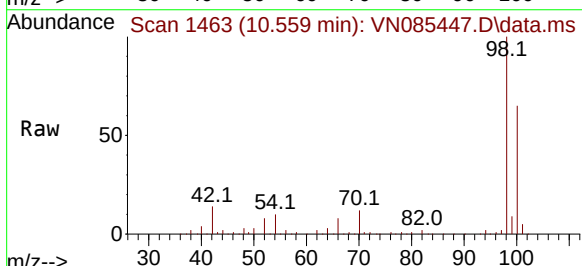
Acq: 15 Jan 2025 09:03

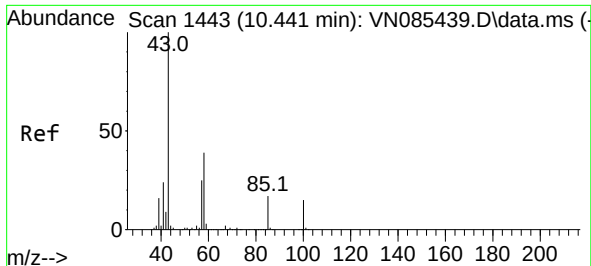
Tgt Ion: 98 Resp: 486444

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.4

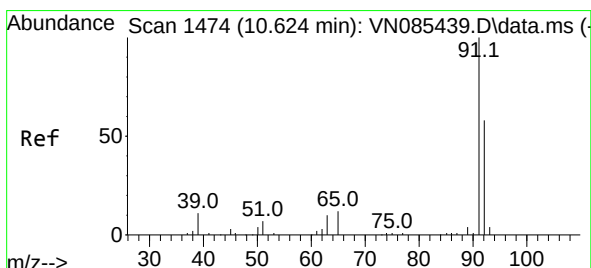
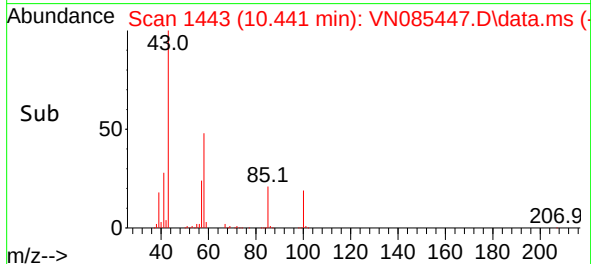
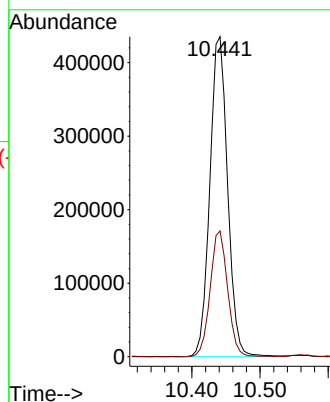
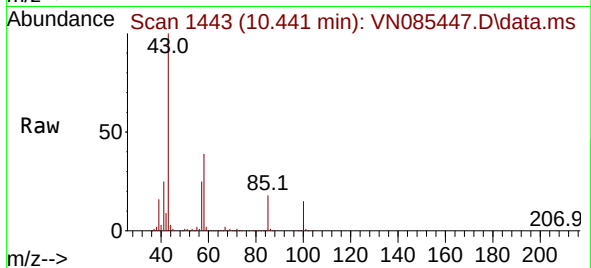




#51
4-Methyl-2-Pentanone
Concen: 240.885 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

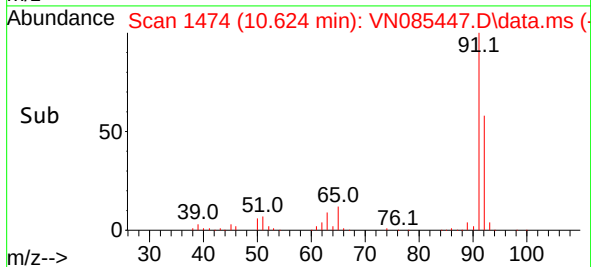
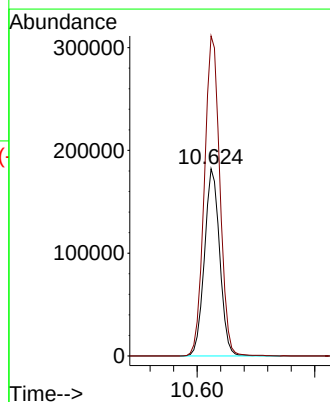
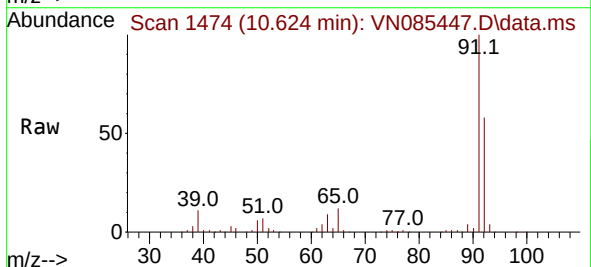
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

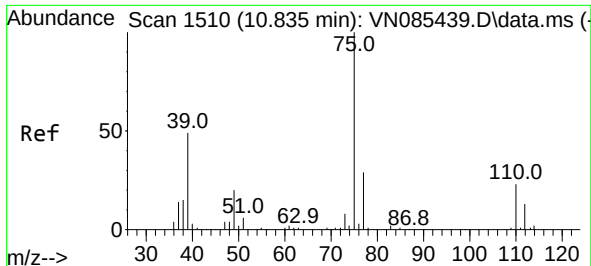
Tgt Ion: 43 Resp: 789380
Ion Ratio Lower Upper
43 100
58 38.6 30.5 45.7



#52
Toluene
Concen: 54.029 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 92 Resp: 328434
Ion Ratio Lower Upper
92 100
91 174.2 139.2 208.8

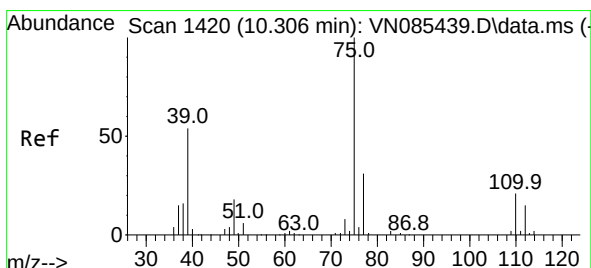
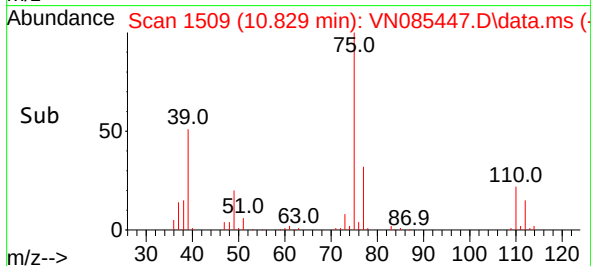
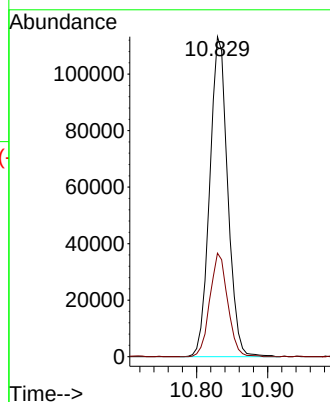
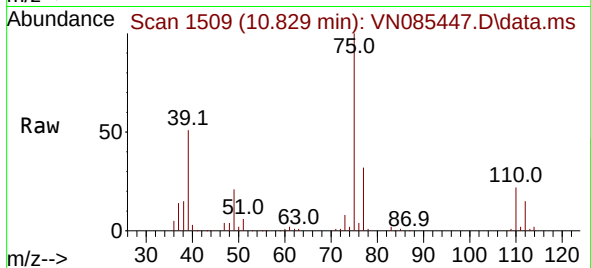




#53
t-1,3-Dichloropropene
Concen: 53.447 ug/l
RT: 10.829 min Scan# 1510
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

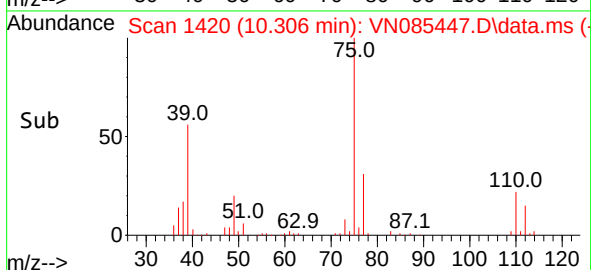
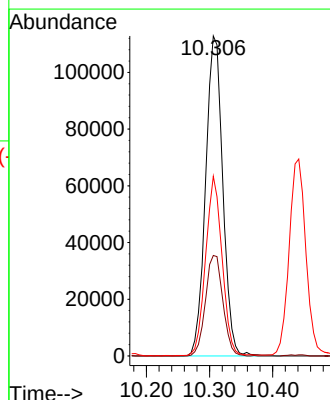
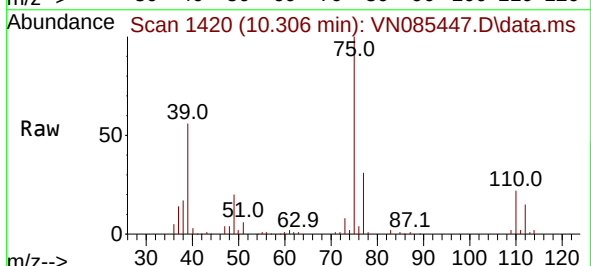
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

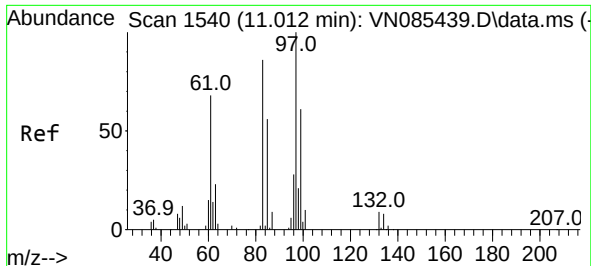
Tgt Ion: 75 Resp: 198974
Ion Ratio Lower Upper
75 100
77 32.4 23.5 35.3



#54
cis-1,3-Dichloropropene
Concen: 53.582 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 75 Resp: 213072
Ion Ratio Lower Upper
75 100
77 31.4 25.0 37.4
39 56.0 43.1 64.7



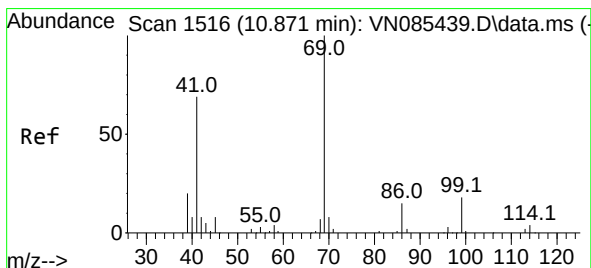
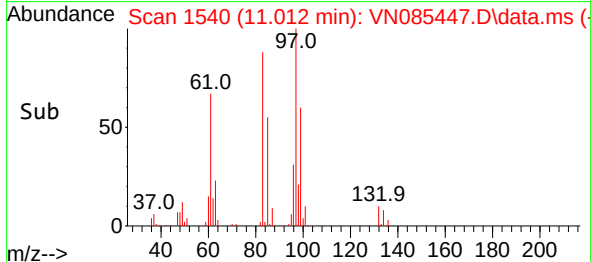
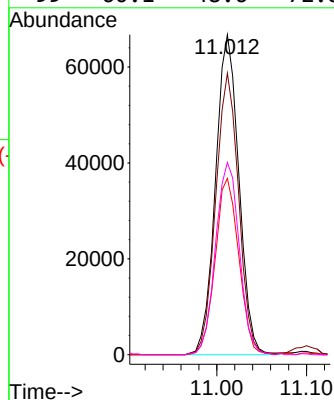
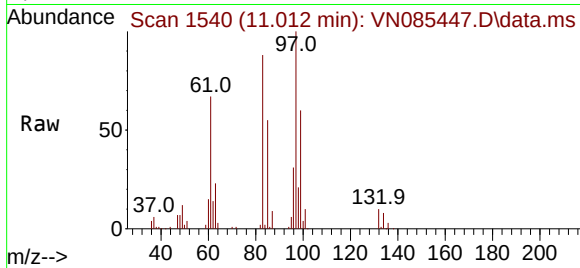


#55
1,1,2-Trichloroethane
Concen: 50.215 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 120803

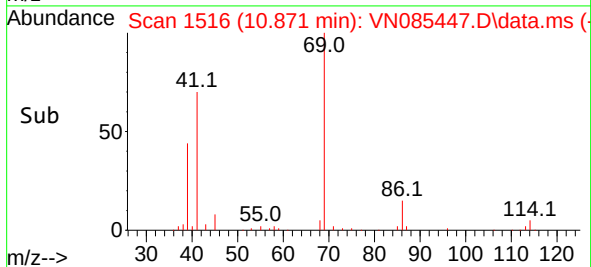
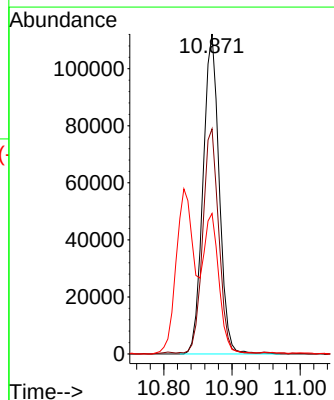
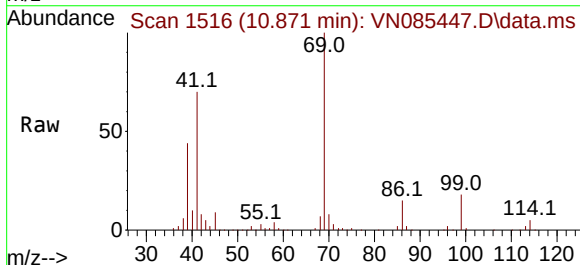
Ion	Ratio	Lower	Upper
97	100		
83	88.0	69.0	103.6
85	55.1	44.6	66.8
99	60.1	48.6	72.8

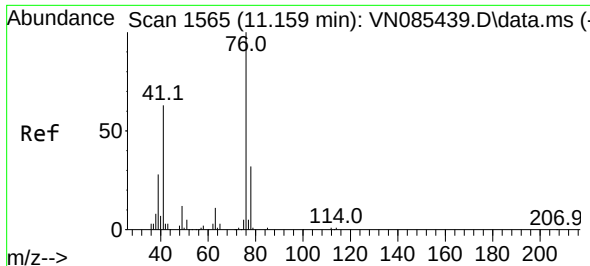


#56
Ethyl methacrylate
Concen: 45.714 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 69 Resp: 184561

Ion	Ratio	Lower	Upper
69	100		
41	68.8	54.6	82.0
39	39.6	32.4	48.6





#57

1,3-Dichloropropane

Concen: 50.662 ug/l

RT: 11.159 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

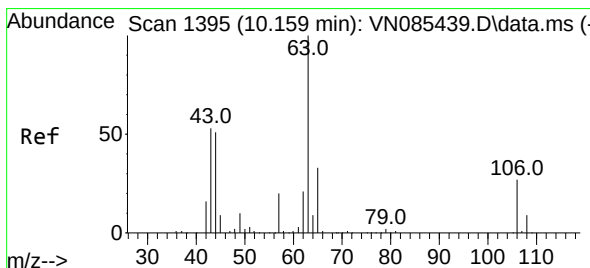
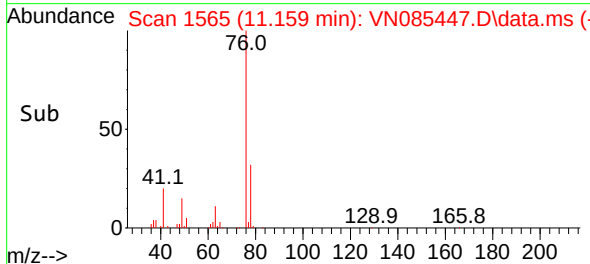
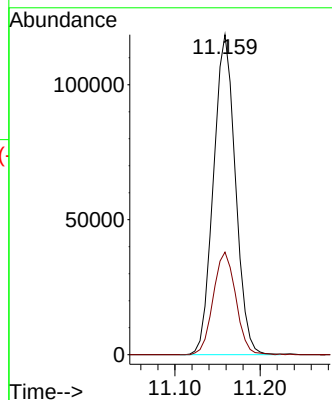
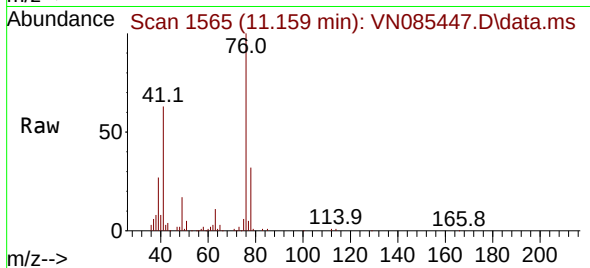
VSTDCCC050

Tgt Ion: 76 Resp: 211921

Ion Ratio Lower Upper

76 100

78 32.9 25.6 38.4



#58

2-Chloroethyl Vinyl ether

Concen: 272.966 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. -0.006 min

Lab File: VN085447.D

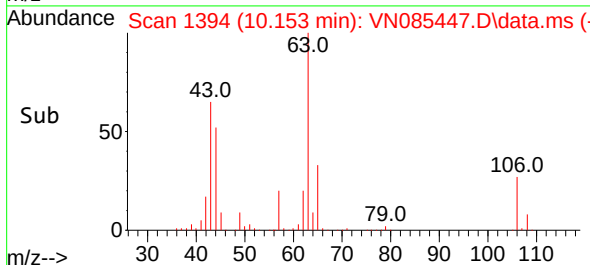
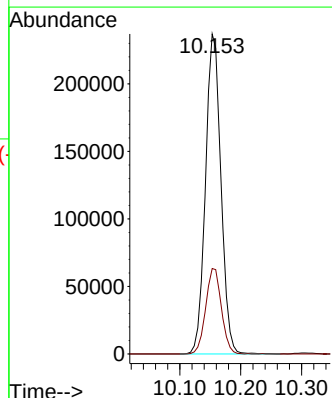
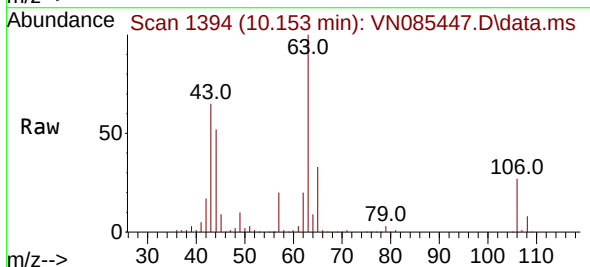
Acq: 15 Jan 2025 09:03

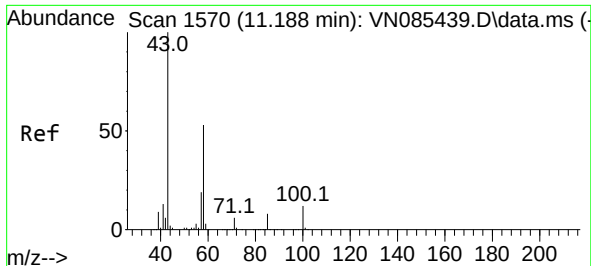
Tgt Ion: 63 Resp: 416723

Ion Ratio Lower Upper

63 100

106 27.1 21.6 32.4

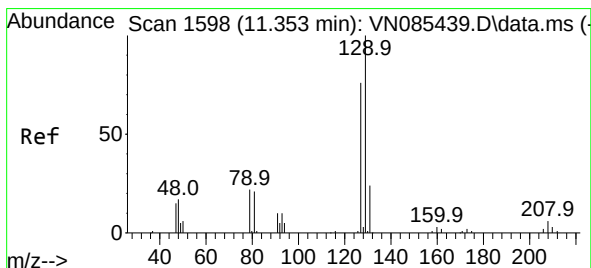
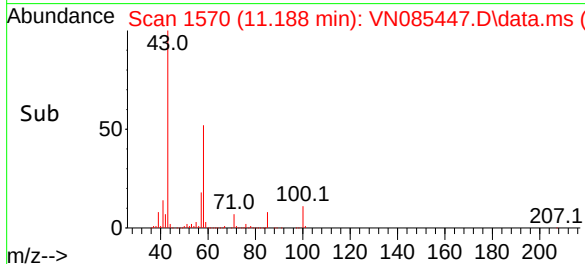
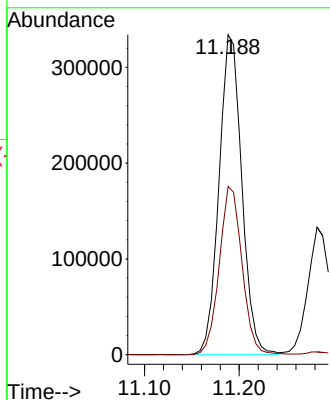
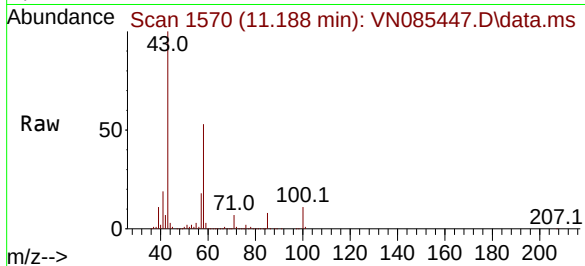




#59
2-Hexanone
Concen: 242.307 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

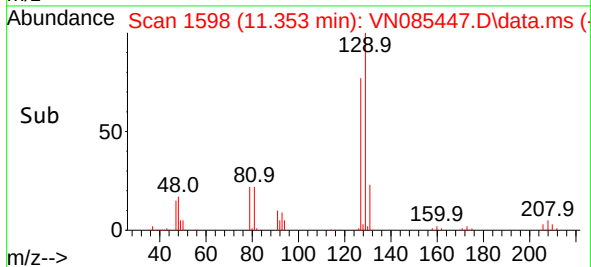
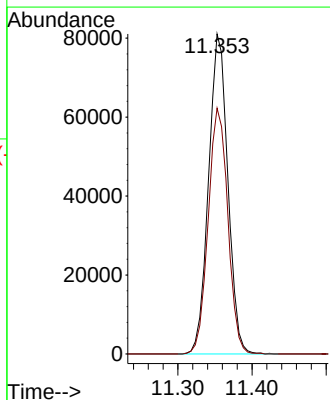
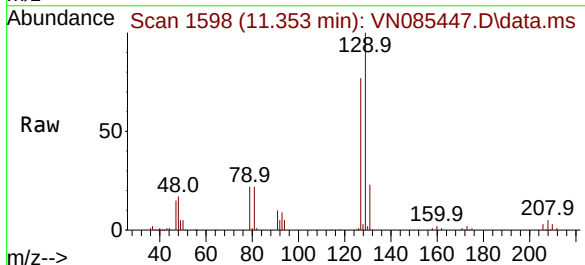
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

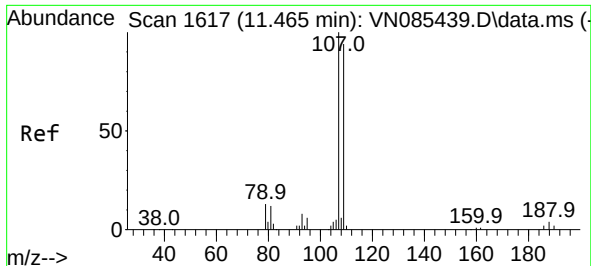
Tgt Ion: 43 Resp: 558711
Ion Ratio Lower Upper
43 100
58 52.6 26.2 78.6



#60
Dibromochloromethane
Concen: 50.392 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:129 Resp: 146358
Ion Ratio Lower Upper
129 100
127 78.3 38.6 115.8

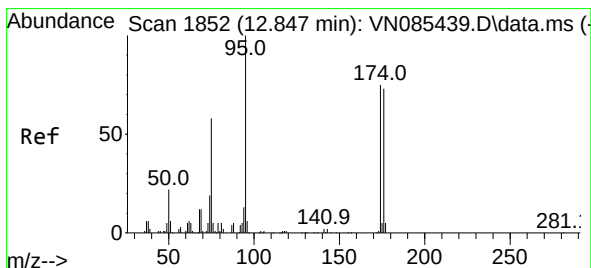
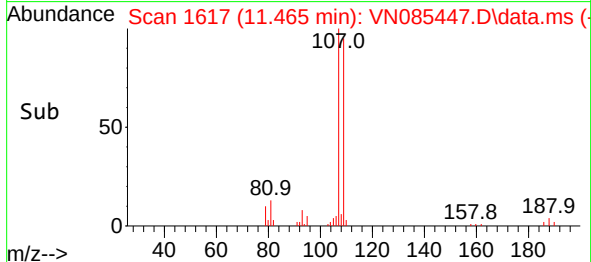
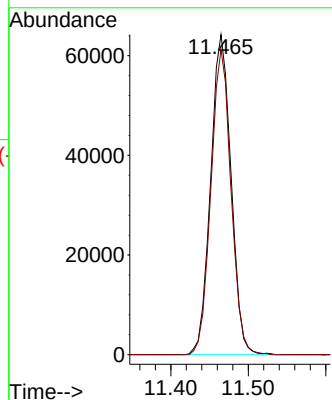
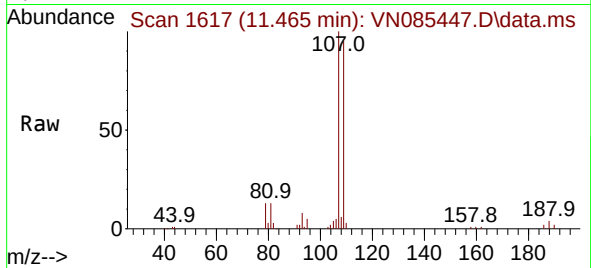




#61
1,2-Dibromoethane
Concen: 49.039 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

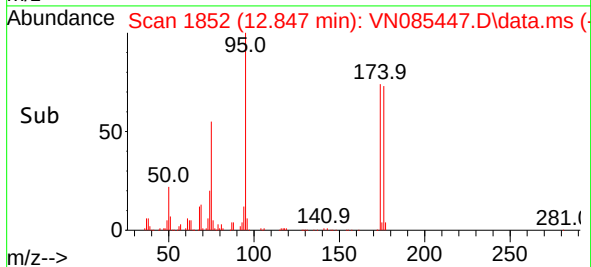
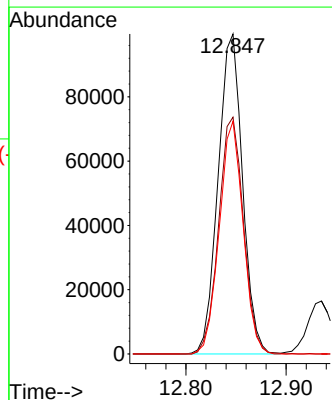
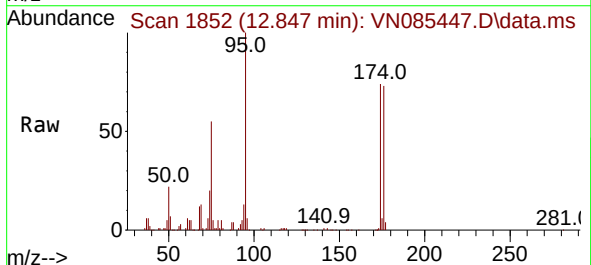
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

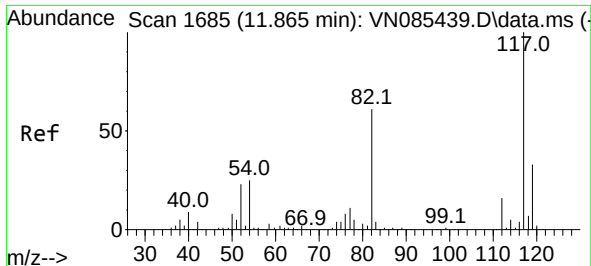
Tgt Ion:107 Resp: 117431
Ion Ratio Lower Upper
107 100
109 93.8 75.9 113.9



#62
4-Bromofluorobenzene
Concen: 55.673 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 95 Resp: 168340
Ion Ratio Lower Upper
95 100
174 75.1 0.0 145.0
176 70.8 0.0 142.4

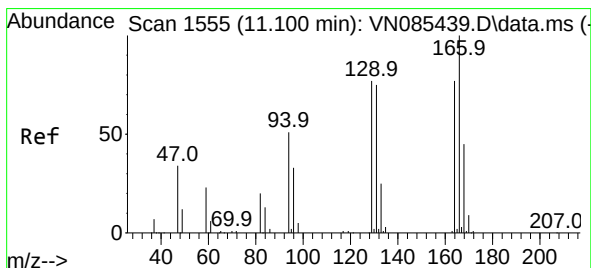
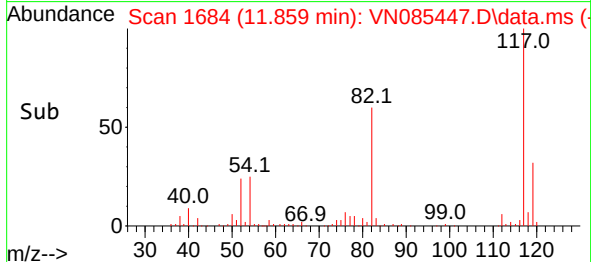
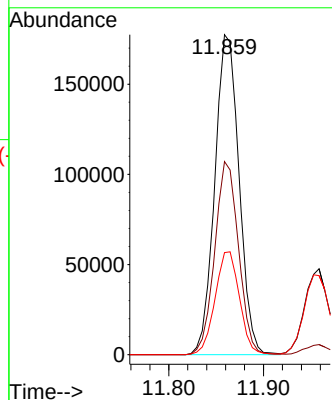
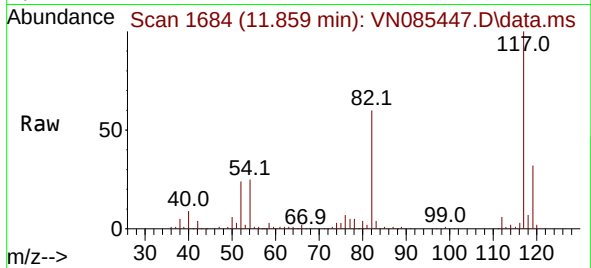




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.859 min Scan# 117
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

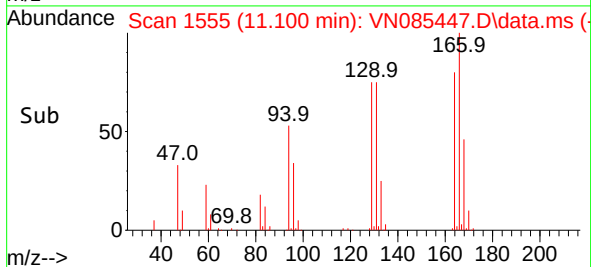
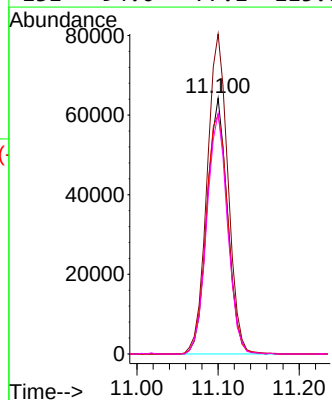
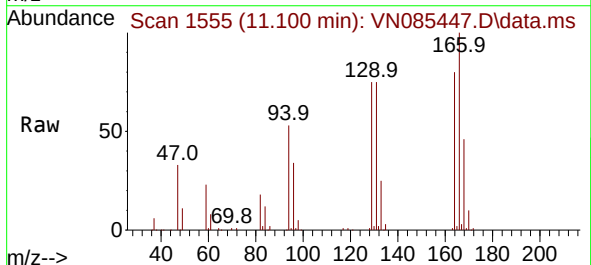
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

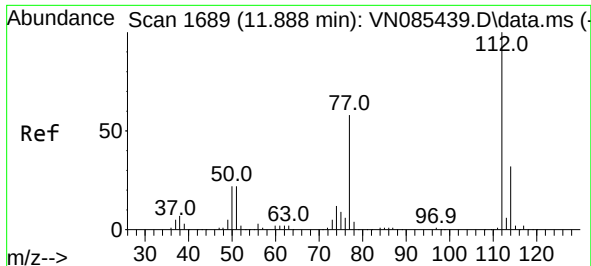
Tgt Ion:117 Resp: 316952
Ion Ratio Lower Upper
117 100
82 60.4 48.6 72.8
119 31.9 26.6 39.8



#64
Tetrachloroethene
Concen: 52.107 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:164 Resp: 112592
Ion Ratio Lower Upper
164 100
166 125.2 103.4 155.2
129 93.6 79.2 118.8
131 94.0 77.1 115.7

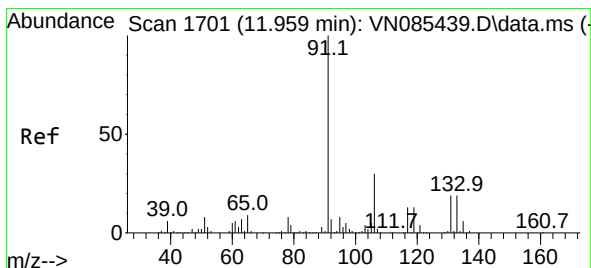
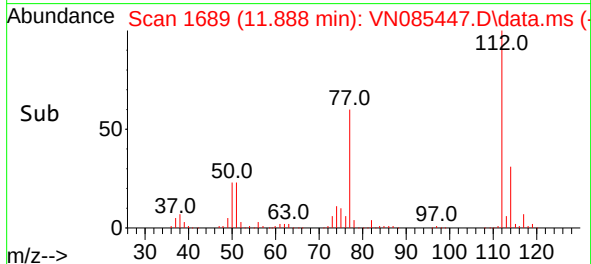
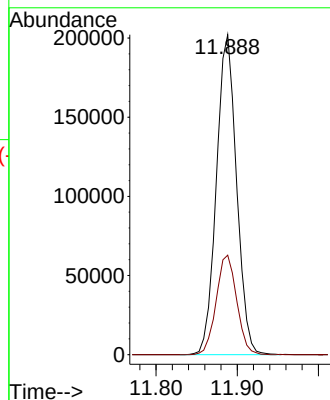
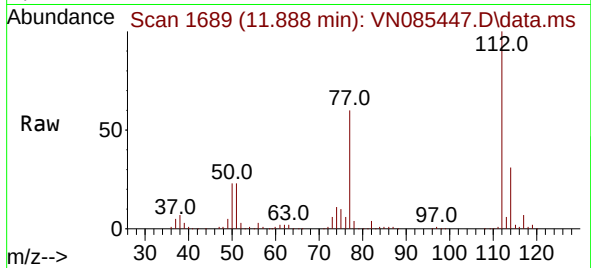




#65
Chlorobenzene
Concen: 50.257 ug/l
RT: 11.888 min Scan# 111
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

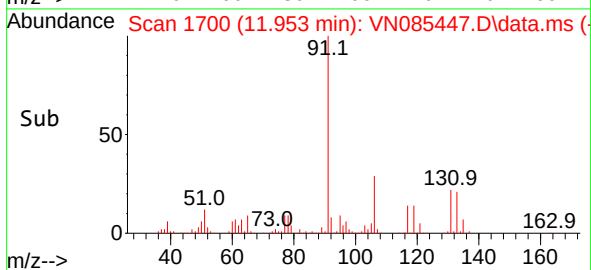
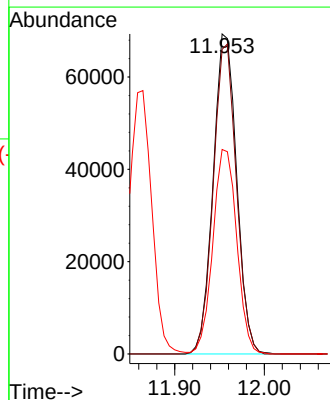
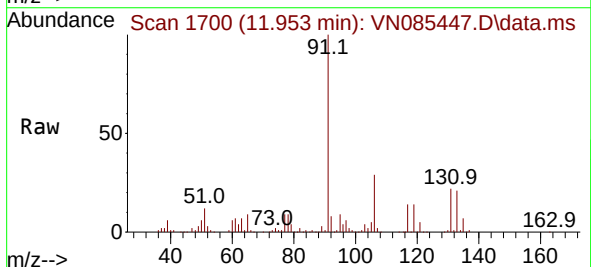
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

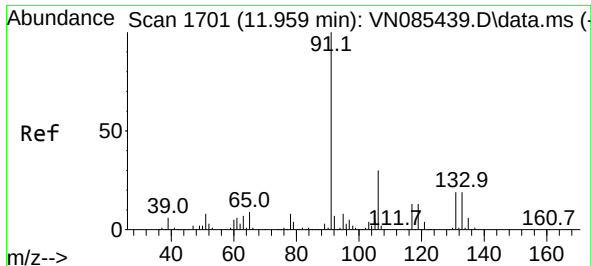
Tgt Ion:112 Resp: 348954
Ion Ratio Lower Upper
112 100
114 31.1 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 49.494 ug/l
RT: 11.953 min Scan# 1700
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:131 Resp: 126127
Ion Ratio Lower Upper
131 100
133 95.6 47.4 142.3
119 65.1 33.1 99.5

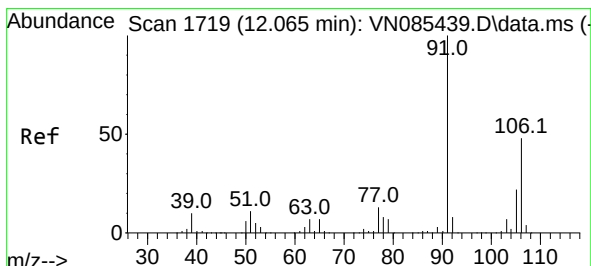
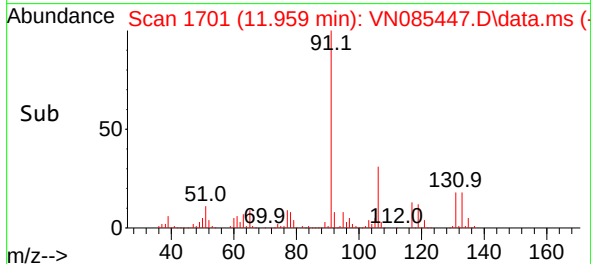
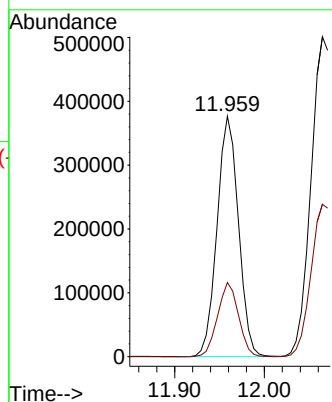
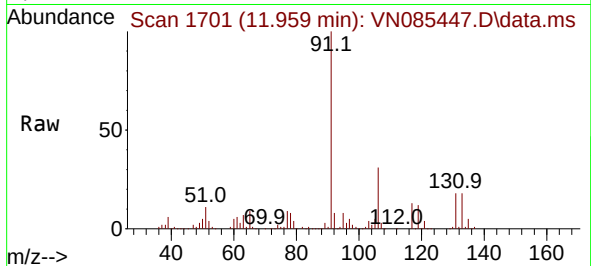




#67
Ethyl Benzene
Concen: 55.122 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

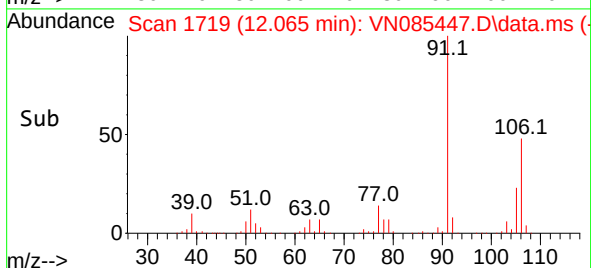
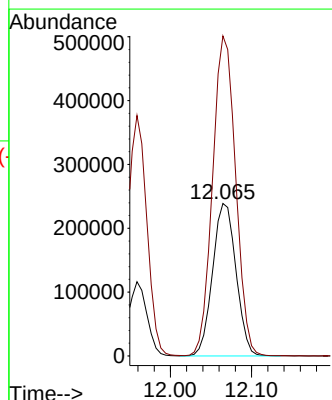
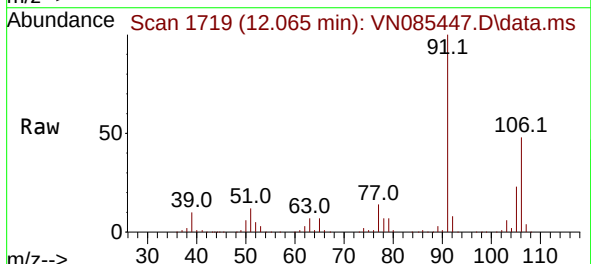
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

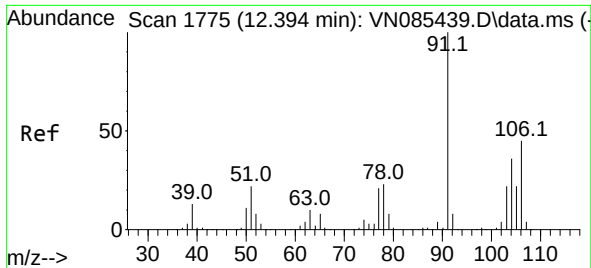
Tgt Ion: 91 Resp: 623373
Ion Ratio Lower Upper
91 100
106 30.9 23.8 35.8



#68
m/p-Xylenes
Concen: 114.570 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:106 Resp: 478857
Ion Ratio Lower Upper
106 100
91 207.2 167.7 251.5

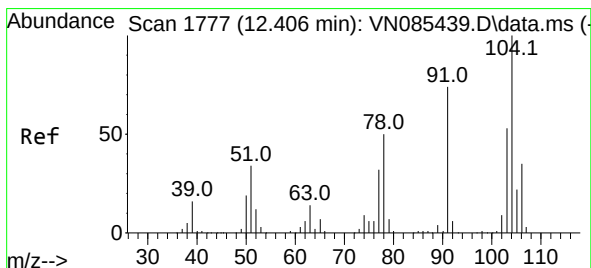
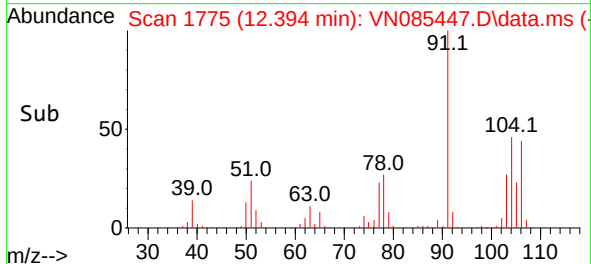
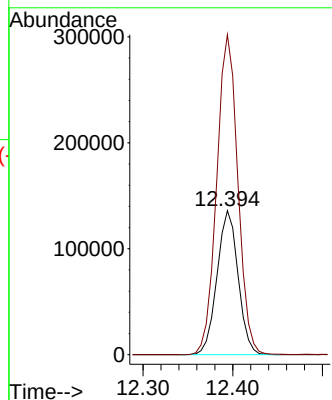
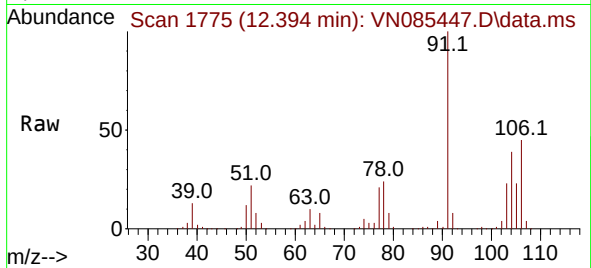




#69
o-Xylene
Concen: 55.481 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

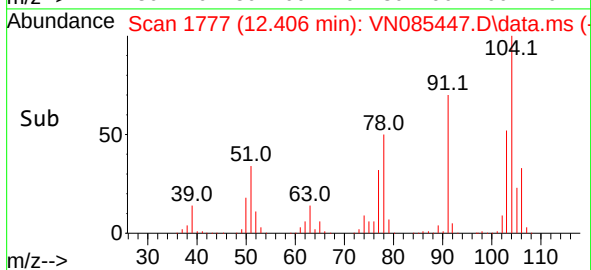
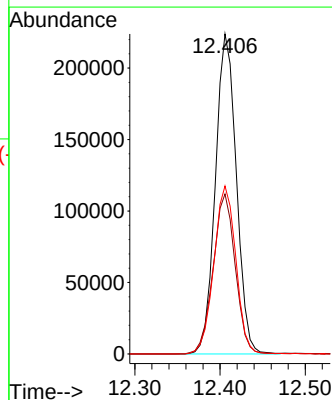
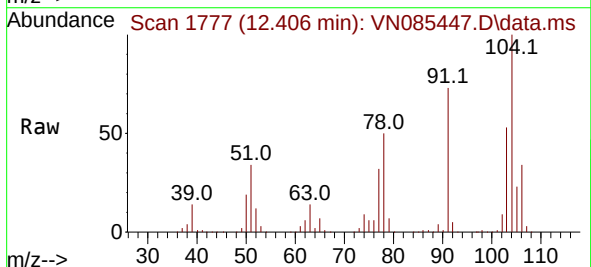
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

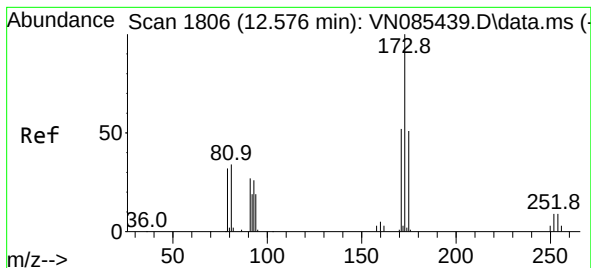
Tgt Ion:106 Resp: 221609
Ion Ratio Lower Upper
106 100
91 223.4 110.4 331.2



#70
Styrene
Concen: 57.933 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:104 Resp: 382963
Ion Ratio Lower Upper
104 100
78 52.8 42.5 63.7
103 55.0 43.8 65.8





#71

Bromoform

Concen: 52.493 ug/l

RT: 12.570 min Scan# 1805

Delta R.T. -0.006 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

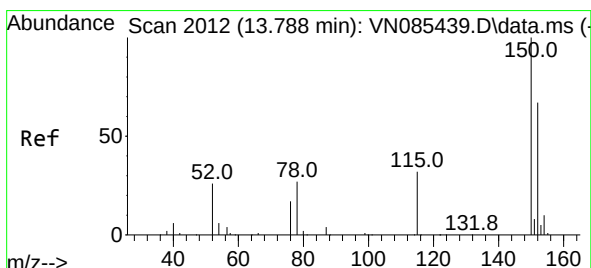
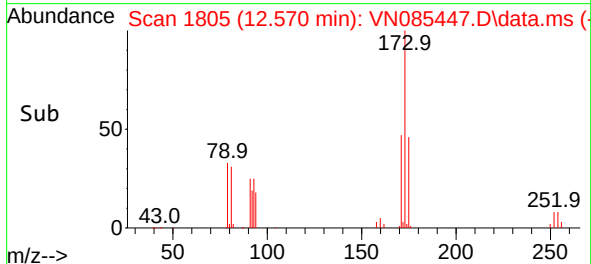
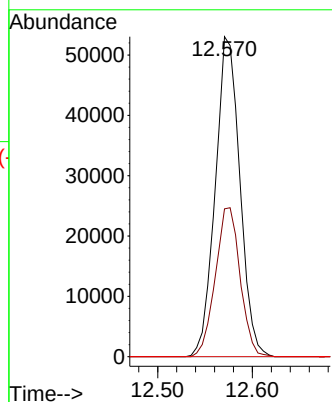
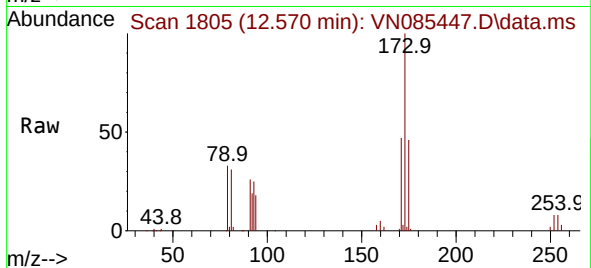
Tgt Ion:173 Resp: 95715

Ion Ratio Lower Upper

173 100

175 47.0 24.4 73.2

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

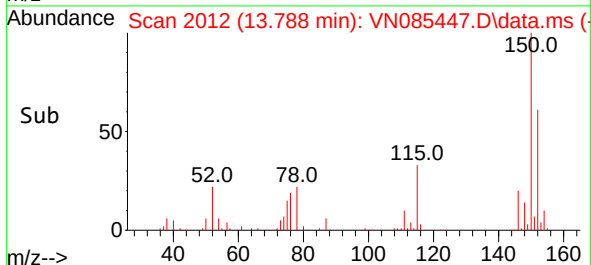
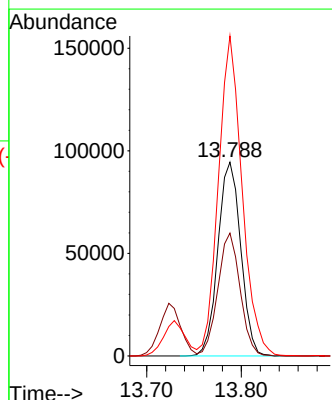
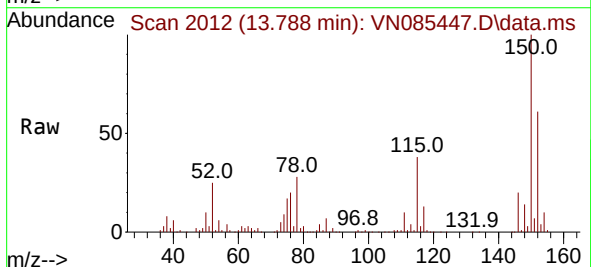
Tgt Ion:152 Resp: 158347

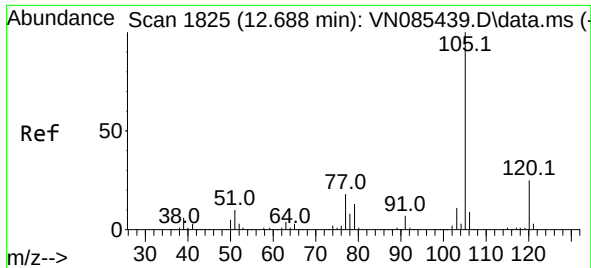
Ion Ratio Lower Upper

152 100

115 61.8 31.1 93.3

150 171.2 0.0 343.6

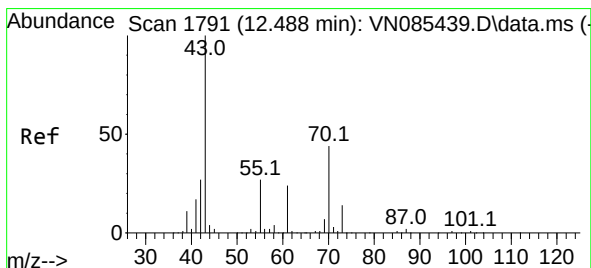
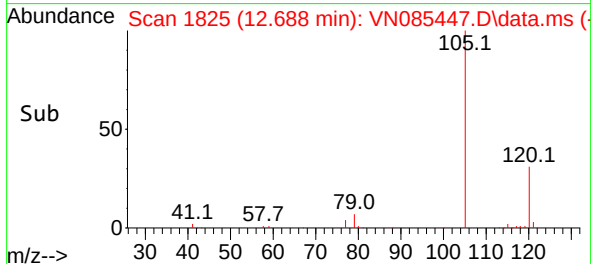
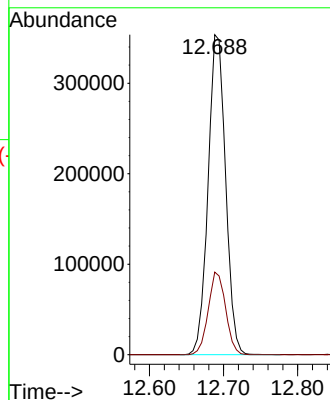
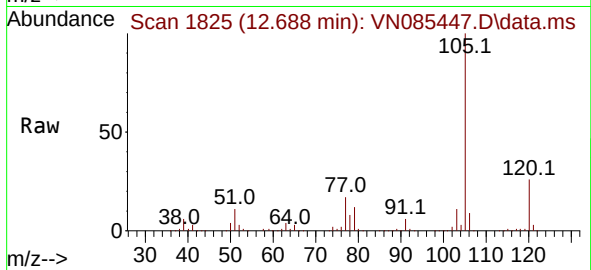




#73
Isopropylbenzene
Concen: 54.261 ug/l
RT: 12.688 min Scan# 1825
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

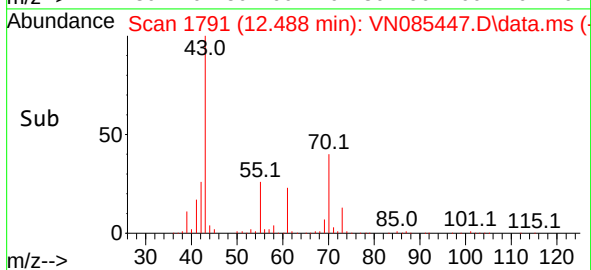
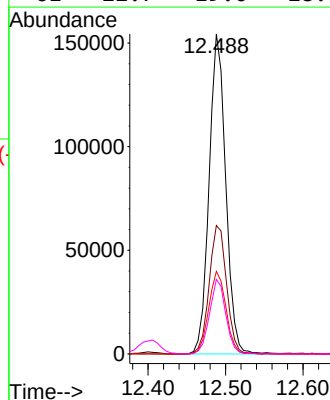
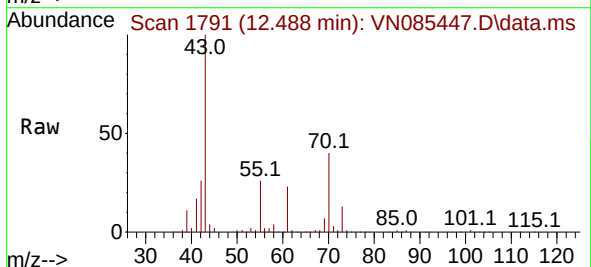
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

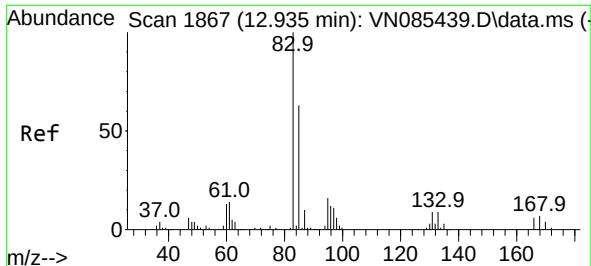
Tgt Ion:105 Resp: 579887
Ion Ratio Lower Upper
105 100
120 25.6 12.8 38.3



#74
N-ethyl acetate
Concen: 47.841 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 43 Resp: 229808
Ion Ratio Lower Upper
43 100
70 42.0 34.0 51.0
55 26.8 21.4 32.2
61 22.7 19.0 28.4

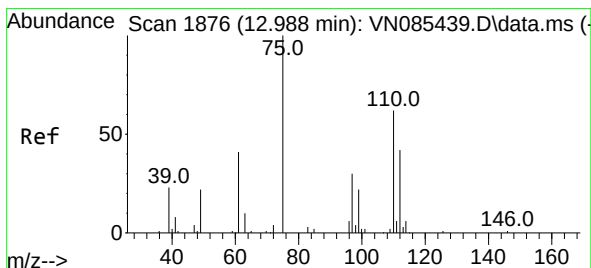
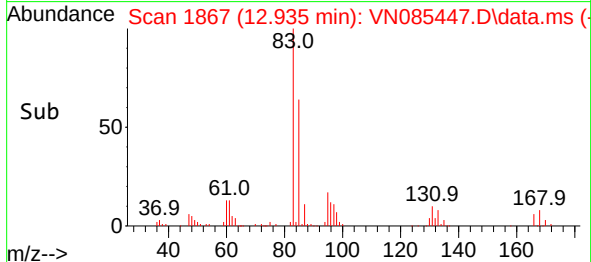
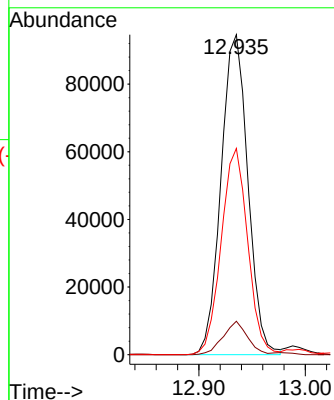
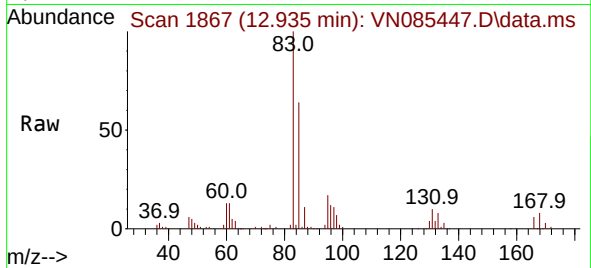




#75
1,1,2-Tetrachloroethane
Concen: 43.898 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

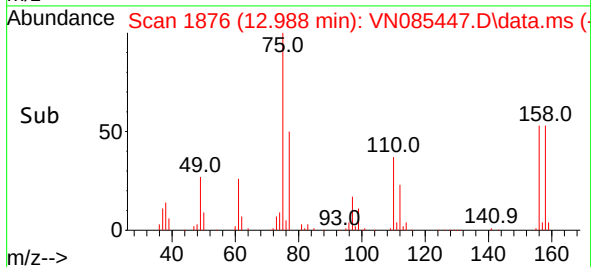
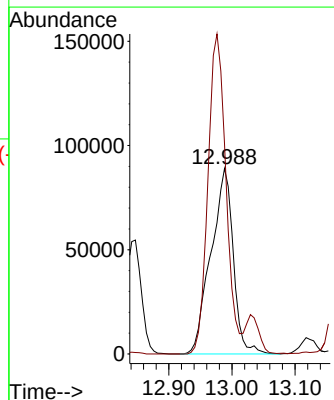
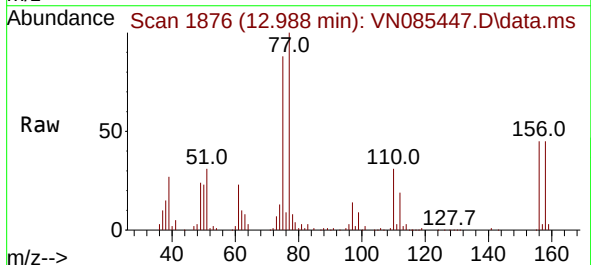
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

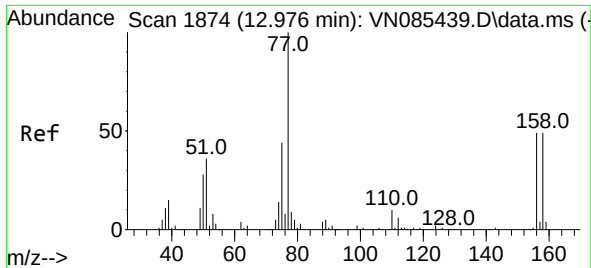
Tgt Ion: 83 Resp: 165720
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.4
85 63.6 32.2 96.6



#76
1,2,3-Trichloropropane
Concen: 67.902 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 75 Resp: 218540
Ion Ratio Lower Upper
75 100
77 138.4 109.7 329.2

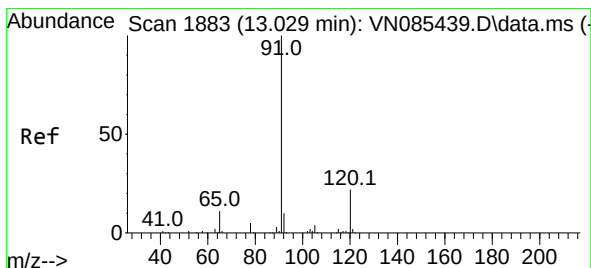
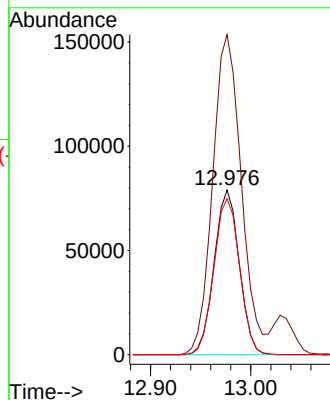
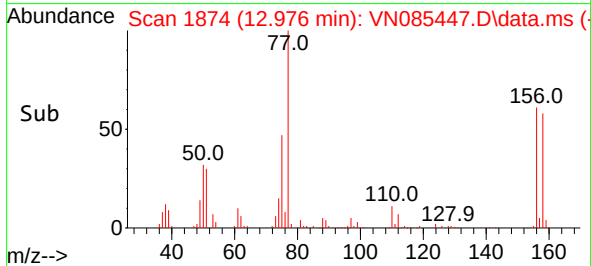
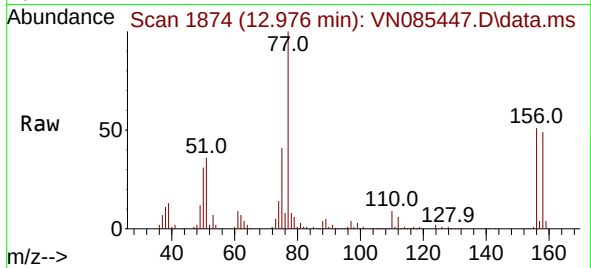




#77
Bromobenzene
Concen: 49.115 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

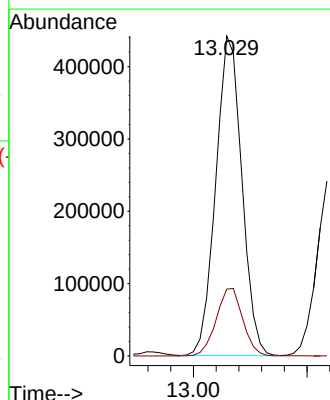
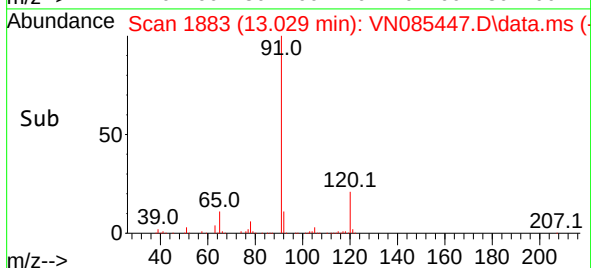
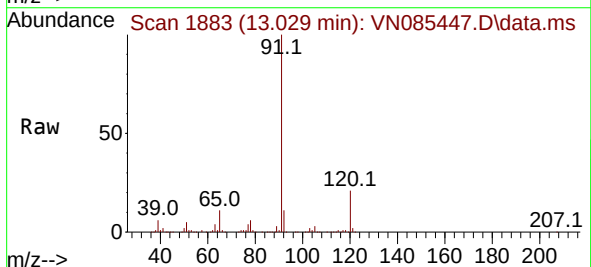
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

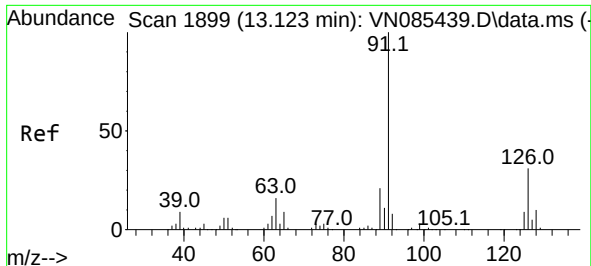
Tgt Ion:156 Resp: 137136
Ion Ratio Lower Upper
156 100
77 220.6 114.1 342.4
158 97.1 48.9 146.8



#78
n-propylbenzene
Concen: 55.640 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 91 Resp: 703936
Ion Ratio Lower Upper
91 100
120 21.5 10.9 32.6

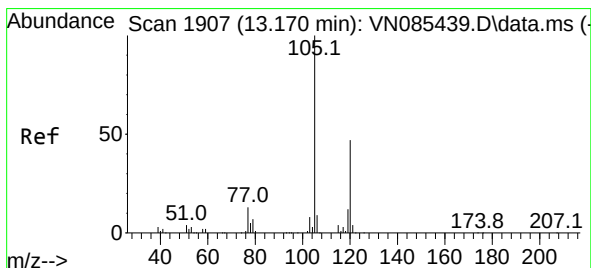
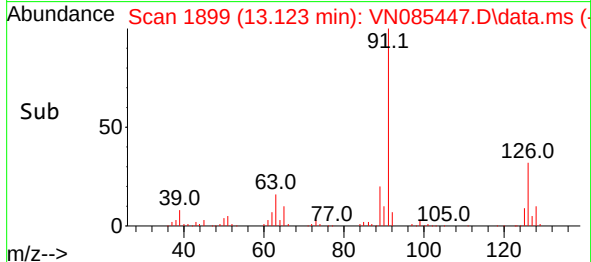
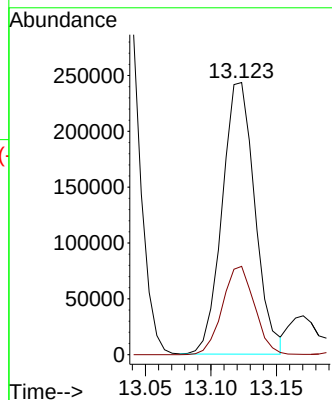
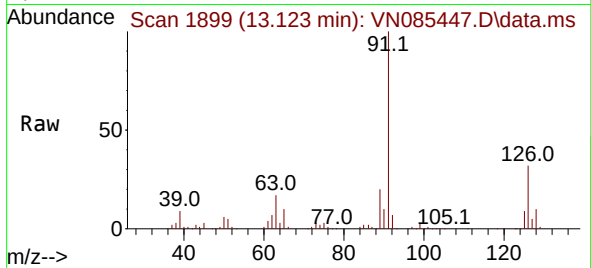




#79
2-Chlorotoluene
Concen: 51.665 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

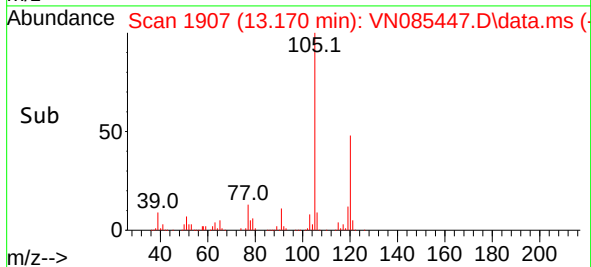
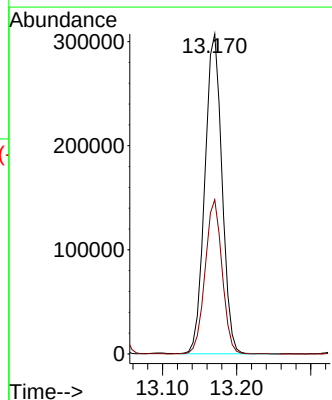
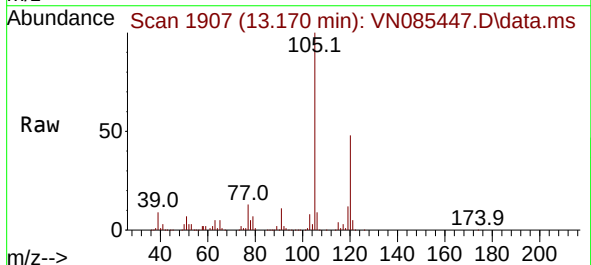
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

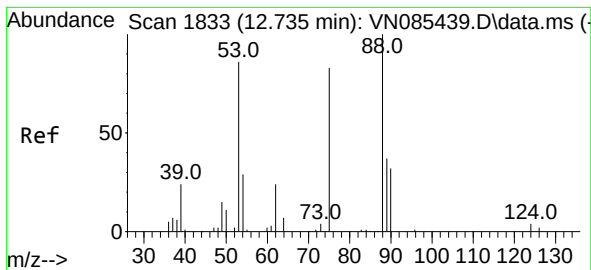
Tgt Ion: 91 Resp: 423036
Ion Ratio Lower Upper
91 100
126 31.9 15.7 47.1



#80
1,3,5-Trimethylbenzene
Concen: 55.763 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 105 Resp: 492256
Ion Ratio Lower Upper
105 100
120 47.9 23.9 71.7





#81

trans-1,4-Dichloro-2-butene

Concen: 48.853 ug/l

RT: 12.729 min Scan# 1832

Delta R.T. -0.006 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

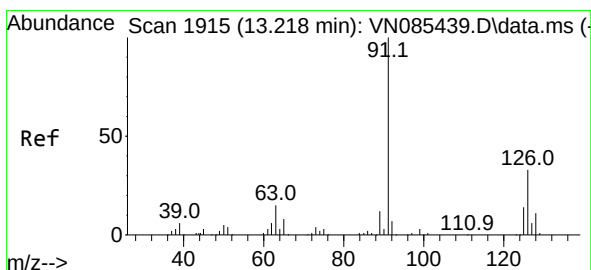
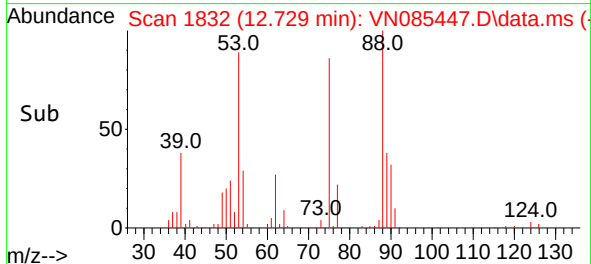
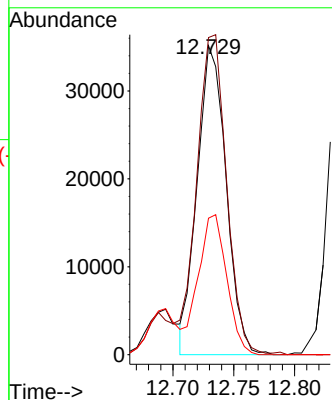
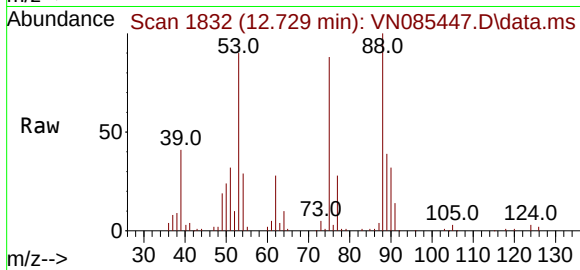
Tgt Ion: 75 Resp: 58114

Ion Ratio Lower Upper

75 100

53 108.1 95.6 143.4

89 45.1 37.0 55.6



#82

4-Chlorotoluene

Concen: 52.164 ug/l

RT: 13.217 min Scan# 1915

Delta R.T. -0.000 min

Lab File: VN085447.D

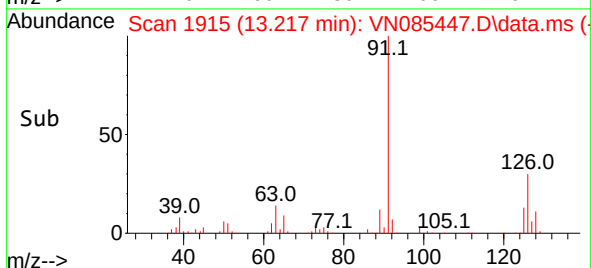
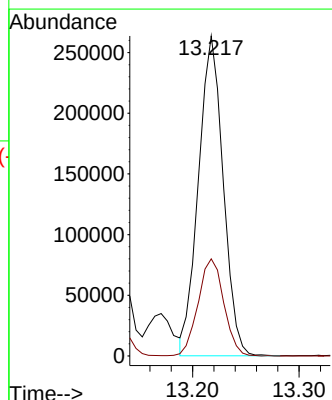
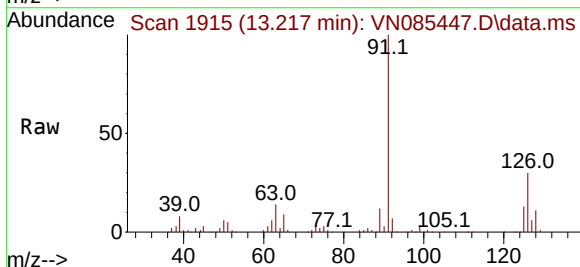
Acq: 15 Jan 2025 09:03

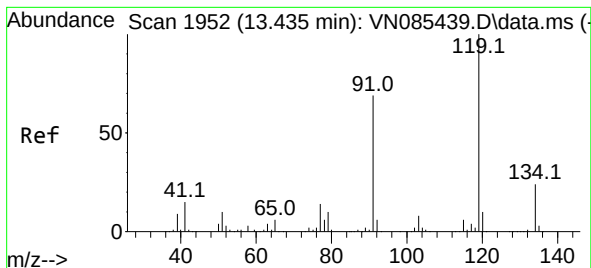
Tgt Ion: 91 Resp: 425288

Ion Ratio Lower Upper

91 100

126 31.6 15.9 47.7





#83

tert-Butylbenzene

Concen: 54.680 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

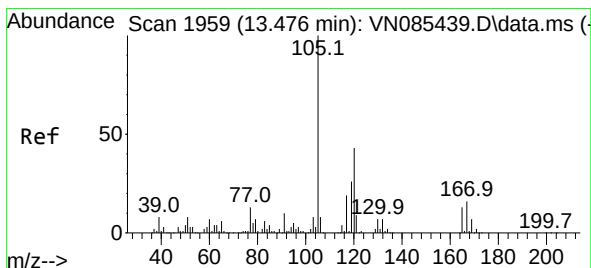
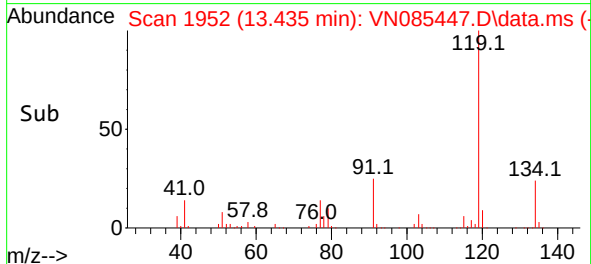
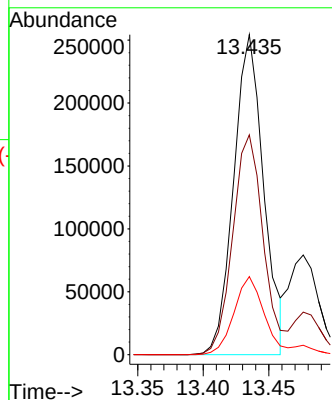
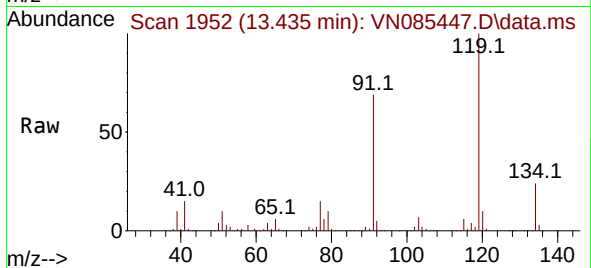
Tgt Ion:119 Resp: 405351

Ion Ratio Lower Upper

119 100

91 70.7 35.1 105.3

134 24.5 12.0 36.1



#84

1,2,4-Trimethylbenzene

Concen: 56.692 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN085447.D

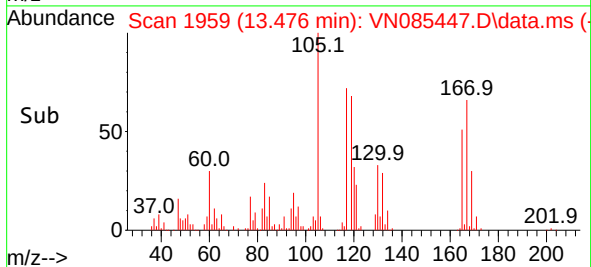
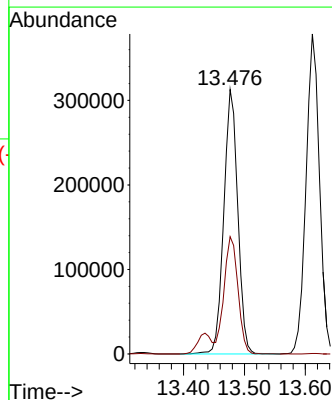
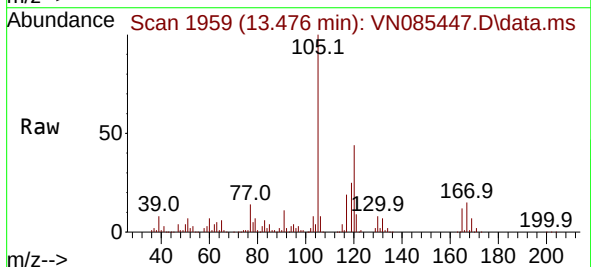
Acq: 15 Jan 2025 09:03

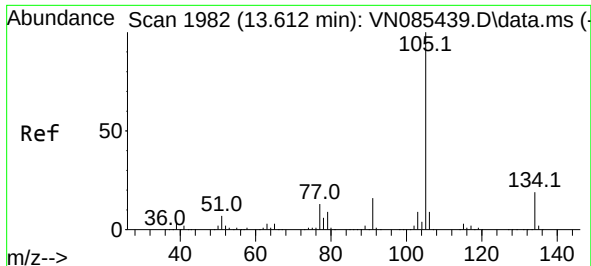
Tgt Ion:105 Resp: 498787

Ion Ratio Lower Upper

105 100

120 45.0 21.6 65.0

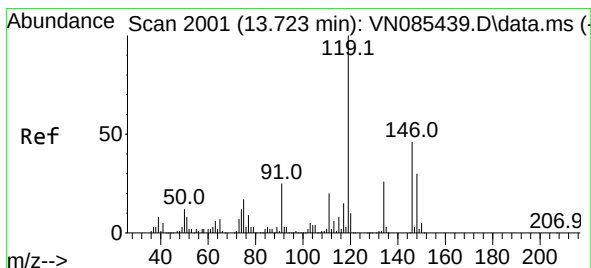
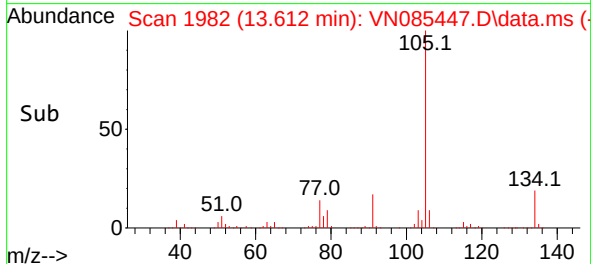
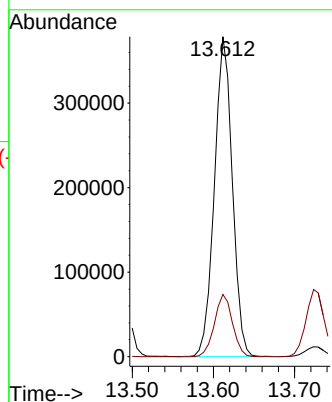
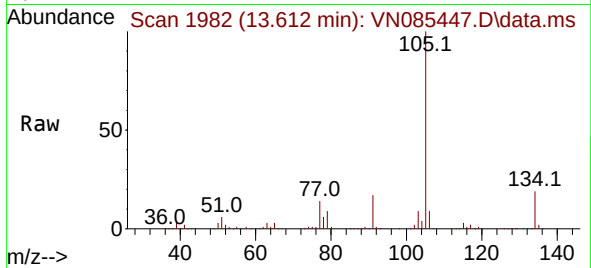




#85
 sec-Butylbenzene
 Concen: 56.497 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. -0.000 min
 Lab File: VN085447.D
 Acq: 15 Jan 2025 09:03

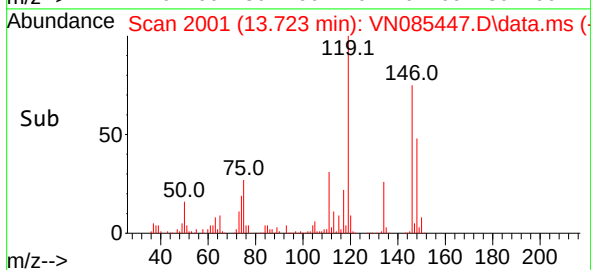
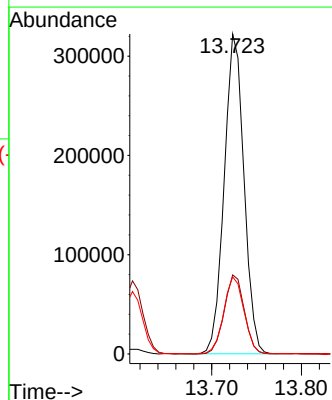
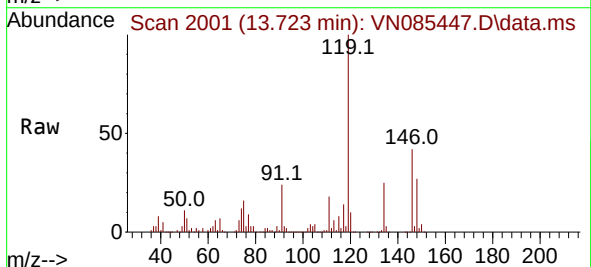
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

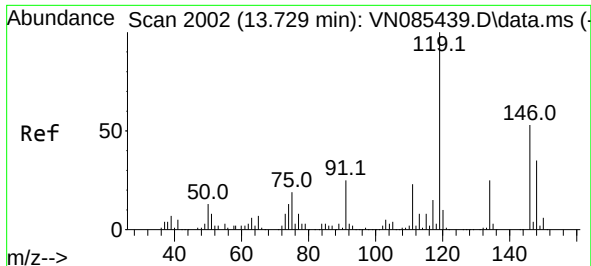
Tgt Ion:105 Resp: 580478
 Ion Ratio Lower Upper
 105 100
 134 19.6 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 52.852 ug/l
 RT: 13.723 min Scan# 2001
 Delta R.T. 0.000 min
 Lab File: VN085447.D
 Acq: 15 Jan 2025 09:03

Tgt Ion:119 Resp: 492423
 Ion Ratio Lower Upper
 119 100
 134 25.1 12.7 38.0
 91 24.5 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 50.137 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

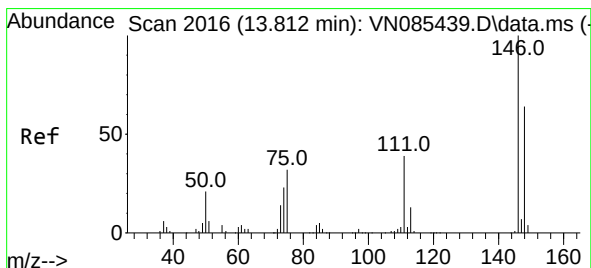
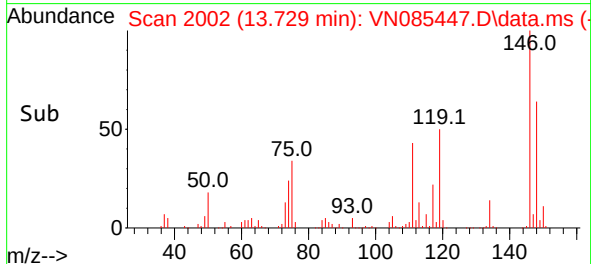
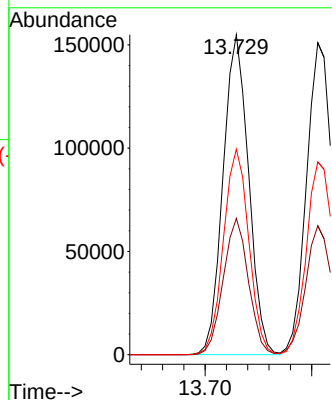
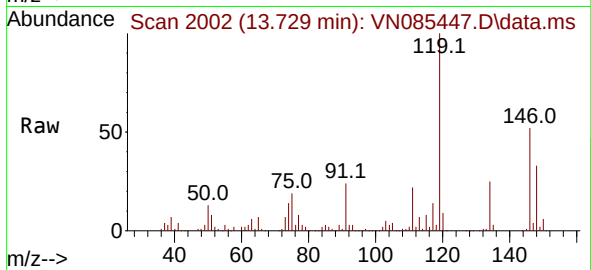
Tgt Ion:146 Resp: 257806

Ion Ratio Lower Upper

146 100

111 42.0 21.4 64.3

148 63.9 32.3 96.9



#88

1,4-Dichlorobenzene

Concen: 48.073 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. -0.006 min

Lab File: VN085447.D

Acq: 15 Jan 2025 09:03

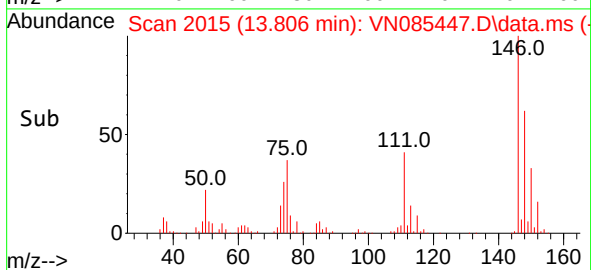
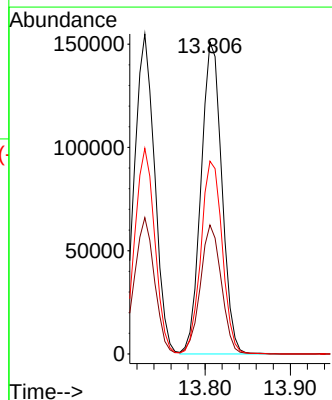
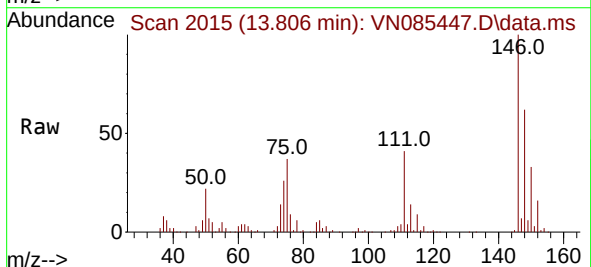
Tgt Ion:146 Resp: 256221

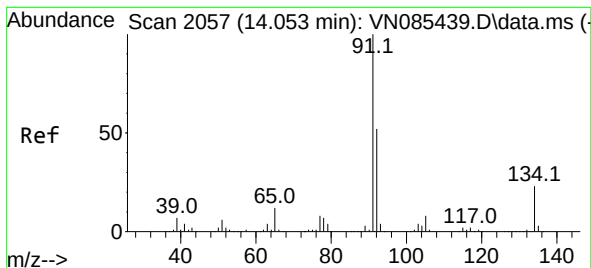
Ion Ratio Lower Upper

146 100

111 41.8 21.3 63.7

148 63.5 32.4 97.0

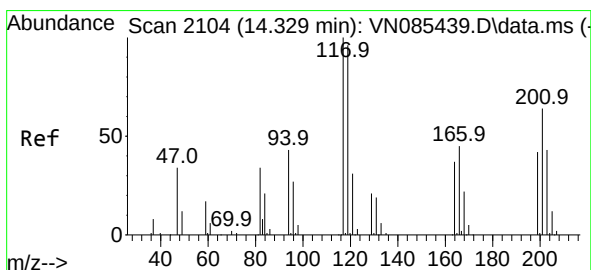
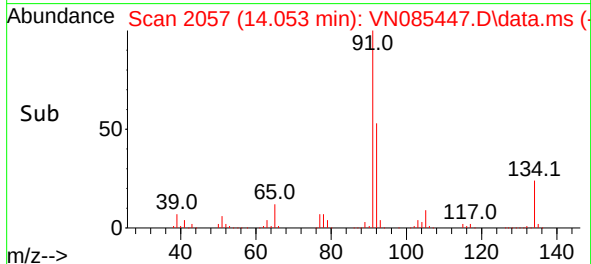
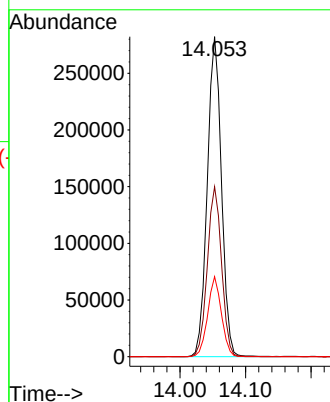
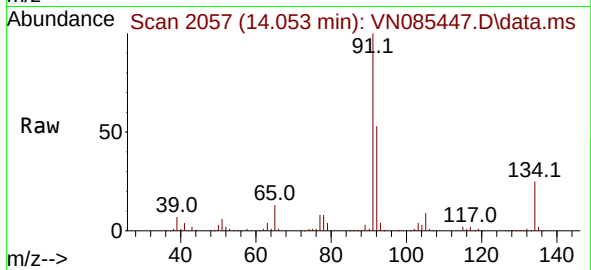




#89
n-Butylbenzene
Concen: 57.654 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

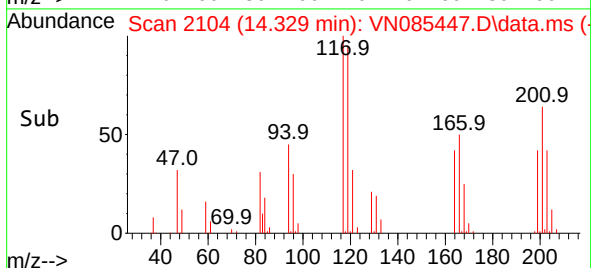
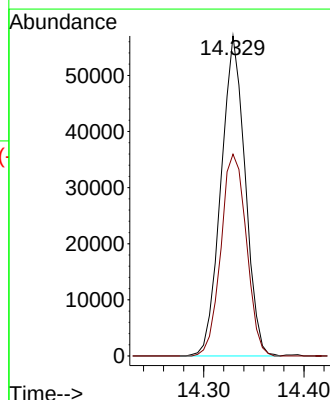
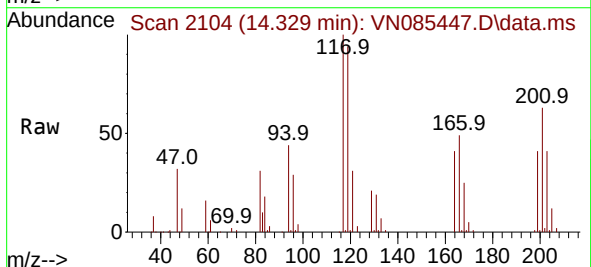
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

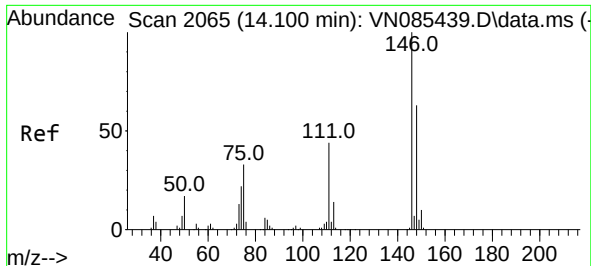
Tgt Ion: 91 Resp: 424966
Ion Ratio Lower Upper
91 100
92 53.2 25.8 77.3
134 24.2 11.7 35.1



#90
Hexachloroethane
Concen: 48.675 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 117 Resp: 95205
Ion Ratio Lower Upper
117 100
201 66.4 33.7 101.0

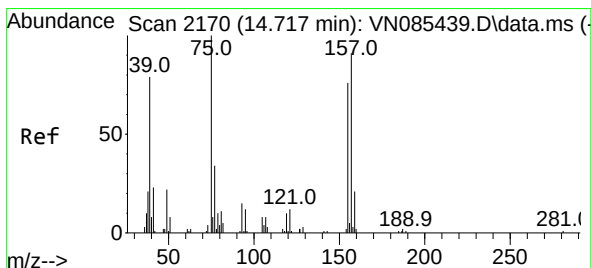
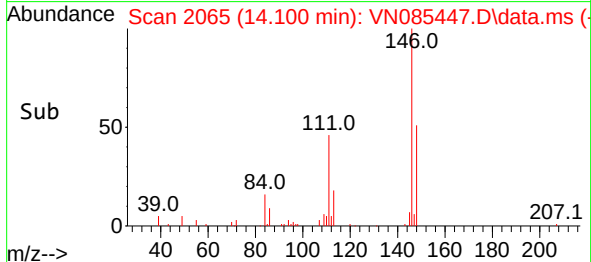
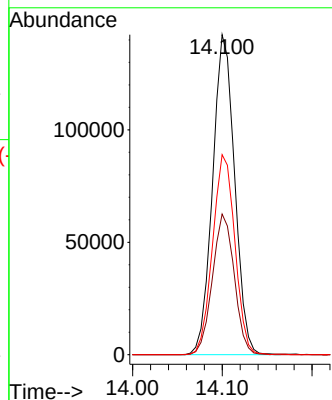
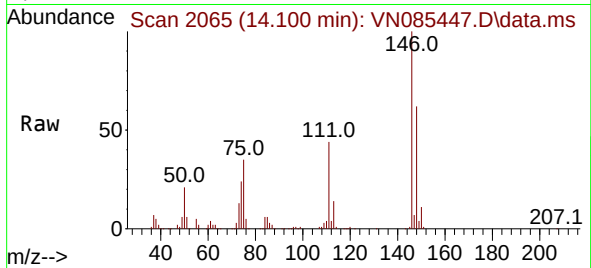




#91
 1,2-Dichlorobenzene
 Concen: 47.320 ug/l
 RT: 14.100 min Scan# 2065
 Delta R.T. -0.000 min
 Lab File: VN085447.D
 Acq: 15 Jan 2025 09:03

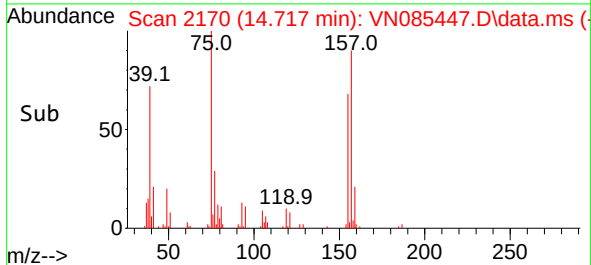
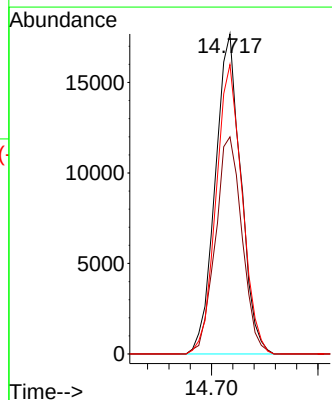
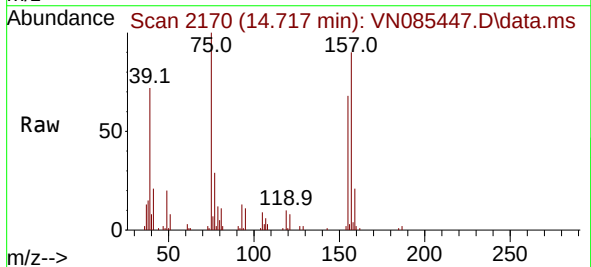
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

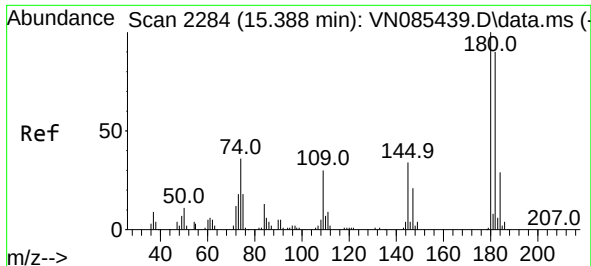
Tgt Ion:146 Resp: 242707
 Ion Ratio Lower Upper
 146 100
 111 43.6 21.7 65.1
 148 63.3 31.4 94.2



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 42.906 ug/l
 RT: 14.717 min Scan# 2170
 Delta R.T. -0.000 min
 Lab File: VN085447.D
 Acq: 15 Jan 2025 09:03

Tgt Ion: 75 Resp: 29578
 Ion Ratio Lower Upper
 75 100
 155 70.6 36.4 109.2
 157 91.5 45.4 136.1

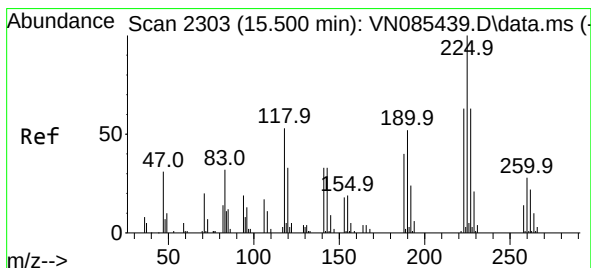
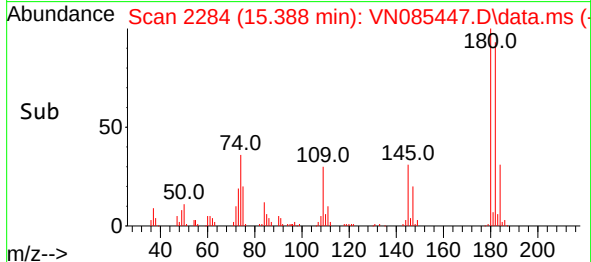
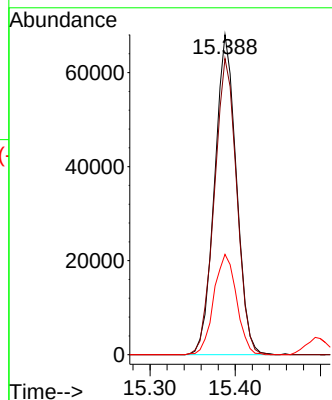
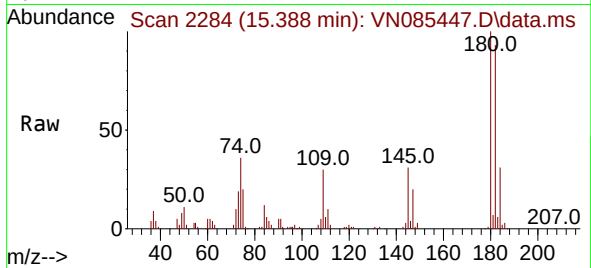




#93
 1,2,4-Trichlorobenzene
 Concen: 50.589 ug/l
 RT: 15.388 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN085447.D
 Acq: 15 Jan 2025 09:03

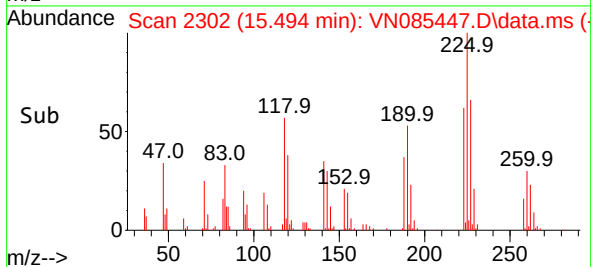
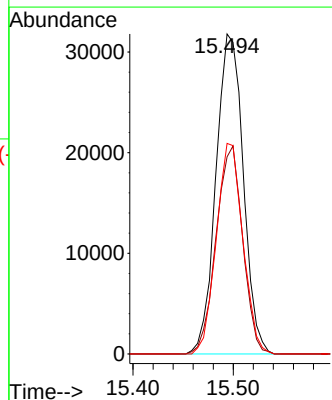
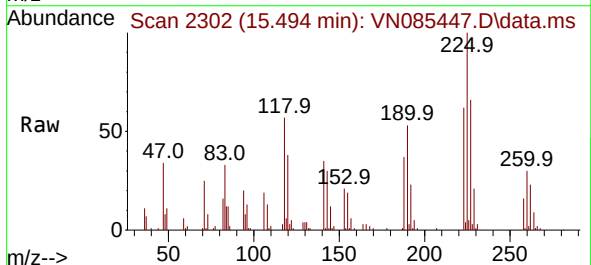
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

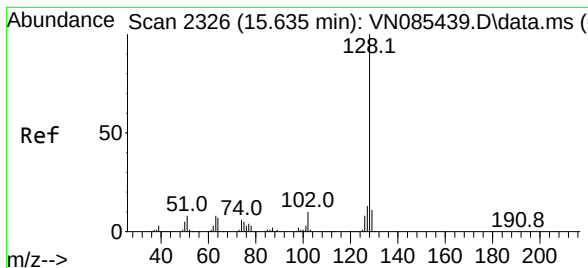
Tgt Ion:180 Resp: 120596
 Ion Ratio Lower Upper
 180 100
 182 95.1 46.8 140.3
 145 32.8 16.0 48.0



#94
 Hexachlorobutadiene
 Concen: 47.470 ug/l
 RT: 15.494 min Scan# 2302
 Delta R.T. -0.006 min
 Lab File: VN085447.D
 Acq: 15 Jan 2025 09:03

Tgt Ion:225 Resp: 60079
 Ion Ratio Lower Upper
 225 100
 223 63.2 30.7 92.1
 227 63.9 30.9 92.5

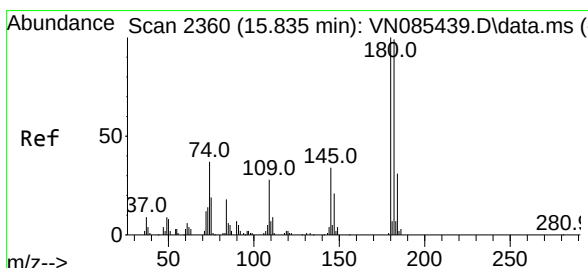
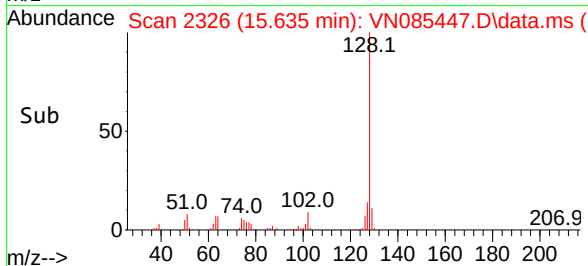
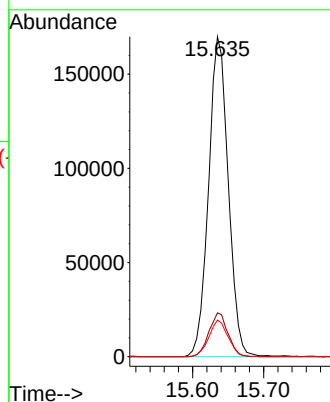
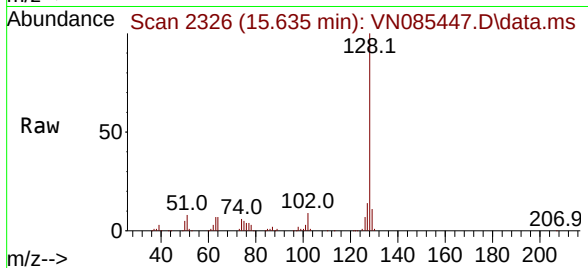




#95
Naphthalene
Concen: 46.012 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

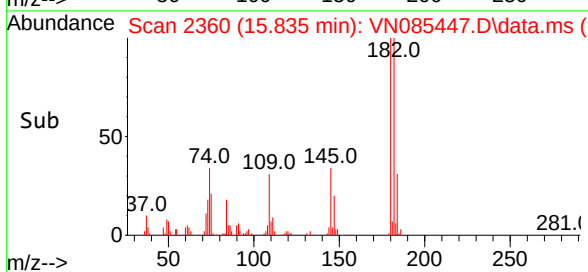
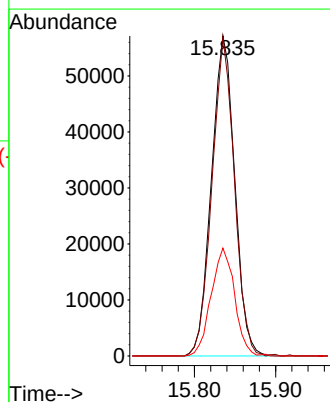
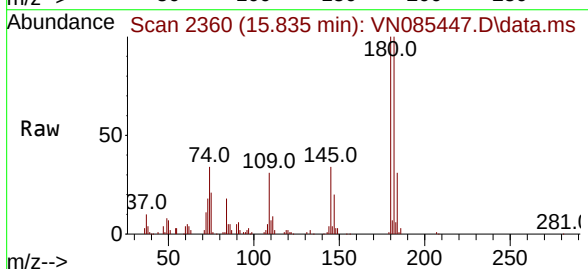
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 327305
Ion Ratio Lower Upper
128 100
127 13.2 10.6 16.0
129 11.1 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 47.236 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:180 Resp: 113937
Ion Ratio Lower Upper
180 100
182 95.4 47.4 142.2
145 33.9 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085450.D
 Acq On : 15 Jan 2025 10:29
 Operator : JC\MD
 Sample : VN0115WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBS01

Quant Time: Jan 16 00:53:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	208834	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	350038	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	301633	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	141189	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	160496	47.611	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.220%
35) Dibromofluoromethane	8.165	113	117791	48.506	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.020%
50) Toluene-d8	10.559	98	434650	50.376	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.760%
62) 4-Bromofluorobenzene	12.847	95	146069	49.491	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.980%

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	2.124	85	53406	18.888	ug/l	97
3) Chloromethane	2.359	50	56766	18.542	ug/l	100
4) Vinyl Chloride	2.518	62	55927	18.175	ug/l	98
5) Bromomethane	2.959	94	34404	18.509	ug/l	93
6) Chloroethane	3.130	64	34817	17.847	ug/l	99
7) Trichlorofluoromethane	3.500	101	83471	18.695	ug/l	98
8) Diethyl Ether	3.959	74	26372	17.097	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	47665	18.954	ug/l	98
10) Methyl Iodide	4.589	142	52836	18.346	ug/l	94
11) Tert butyl alcohol	5.500	59	34842	90.264	ug/l	98
12) 1,1-Dichloroethene	4.347	96	41789	18.645	ug/l	97
13) Acrolein	4.177	56	57066	108.299	ug/l	99
14) Allyl chloride	5.024	41	64682	17.785	ug/l	98
15) Acrylonitrile	5.718	53	111192	90.690	ug/l	98
16) Acetone	4.424	43	95481	87.661	ug/l	97
17) Carbon Disulfide	4.712	76	120042	17.395	ug/l	99
18) Methyl Acetate	5.024	43	59306	17.906	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	136088	18.700	ug/l	100
20) Methylene Chloride	5.277	84	48956	18.156	ug/l	98
21) trans-1,2-Dichloroethene	5.788	96	44485	18.572	ug/l	95
22) Diisopropyl ether	6.665	45	156113	19.339	ug/l	99
23) Vinyl Acetate	6.600	43	540854	95.740	ug/l	100
24) 1,1-Dichloroethane	6.565	63	91537	18.597	ug/l	99
25) 2-Butanone	7.477	43	146109	91.155	ug/l	99
26) 2,2-Dichloropropane	7.488	77	81881	20.576	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	52626	18.654	ug/l	99
28) Bromochloromethane	7.806	49	39408	17.209	ug/l	99
29) Tetrahydrofuran	7.835	42	97170	95.619	ug/l	98
30) Chloroform	7.959	83	93604	18.400	ug/l	100
31) Cyclohexane	8.259	56	79144	18.500	ug/l	95
32) 1,1,1-Trichloroethane	8.159	97	83081	18.618	ug/l	97
36) 1,1-Dichloropropene	8.365	75	63125	18.521	ug/l	99
37) Ethyl Acetate	7.553	43	62310	18.113	ug/l	97
38) Carbon Tetrachloride	8.359	117	74287	19.039	ug/l	97
39) Methylcyclohexane	9.594	83	63410	19.799	ug/l	99
40) Benzene	8.600	78	196843	19.222	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085450.D
 Acq On : 15 Jan 2025 10:29
 Operator : JC\MD
 Sample : VN0115WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBS01

Quant Time: Jan 16 00:53:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	34152	19.082	ug/l	96
42) 1,2-Dichloroethane	8.665	62	72644	18.835	ug/l	100
43) Isopropyl Acetate	8.682	43	99545	18.059	ug/l	100
44) Trichloroethene	9.347	130	45825	19.224	ug/l	98
45) 1,2-Dichloropropane	9.618	63	49517	18.931	ug/l	96
46) Dibromomethane	9.706	93	34976	18.531	ug/l	99
47) Bromodichloromethane	9.882	83	75979	19.759	ug/l	96
48) Methyl methacrylate	9.676	41	47488	19.143	ug/l	98
49) 1,4-Dioxane	9.694	88	14354	343.615	ug/l	95
51) 4-Methyl-2-Pentanone	10.441	43	304924	95.328	ug/l	100
52) Toluene	10.629	92	118985	20.053	ug/l	98
53) t-1,3-Dichloropropene	10.829	75	69201	19.044	ug/l	96
54) cis-1,3-Dichloropropene	10.306	75	77467	19.958	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	44394	18.906	ug/l	99
56) Ethyl methacrylate	10.870	69	63560	17.379	ug/l	99
57) 1,3-Dichloropropane	11.159	76	78133	19.136	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.153	63	148732	99.810	ug/l	99
59) 2-Hexanone	11.194	43	217128	96.472	ug/l	98
60) Dibromochloromethane	11.353	129	54139	19.097	ug/l	99
61) 1,2-Dibromoethane	11.465	107	44253	18.932	ug/l	98
64) Tetrachloroethene	11.100	164	41267	20.068	ug/l	96
65) Chlorobenzene	11.888	112	127557	19.304	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	45645	18.821	ug/l	100
67) Ethyl Benzene	11.959	91	215448	20.019	ug/l	95
68) m/p-Xylenes	12.065	106	164329	41.314	ug/l	100
69) o-Xylene	12.394	106	76723	20.184	ug/l	98
70) Styrene	12.406	104	128074	20.358	ug/l	100
71) Bromoform	12.570	173	34422	19.837	ug/l #	99
73) Isopropylbenzene	12.694	105	196948	20.668	ug/l	100
74) N-amyl acetate	12.488	43	80290	18.746	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	62306	18.510	ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	82085	28.604	ug/l	48
77) Bromobenzene	12.976	156	48006	19.283	ug/l	98
78) n-propylbenzene	13.029	91	234178	20.759	ug/l	99
79) 2-Chlorotoluene	13.123	91	148584	20.351	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	167516	21.282	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.729	75	23140	21.817	ug/l	91
82) 4-Chlorotoluene	13.217	91	148888	20.481	ug/l	100
83) tert-Butylbenzene	13.435	119	137144	20.748	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	168611	21.493	ug/l	97
85) sec-Butylbenzene	13.611	105	193667	21.140	ug/l	99
86) p-Isopropyltoluene	13.729	119	158593	20.730	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	89998	19.629	ug/l	98
88) 1,4-Dichlorobenzene	13.806	146	88968	18.721	ug/l	99
89) n-Butylbenzene	14.053	91	132410	20.147	ug/l	99
90) Hexachloroethane	14.329	117	32875	18.850	ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	86586	18.933	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10904	17.740	ug/l	96
93) 1,2,4-Trichlorobenzene	15.388	180	38461	18.095	ug/l	98
94) Hexachlorobutadiene	15.500	225	21171	18.761	ug/l	98
95) Naphthalene	15.635	128	104770	16.518	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	38077	17.704	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085450.D
Acq On : 15 Jan 2025 10:29
Operator : JC\MD
Sample : VN0115WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

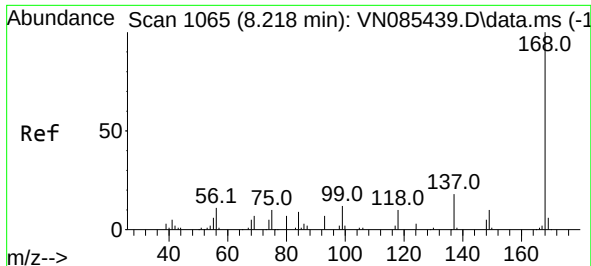
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

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

Quant Time: Jan 16 00:53:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

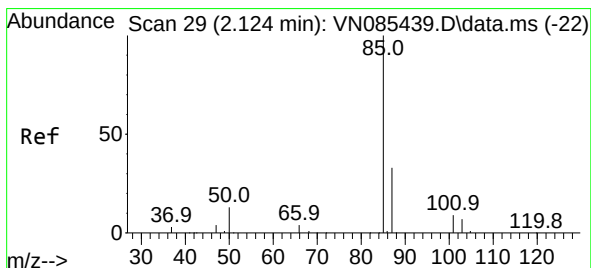
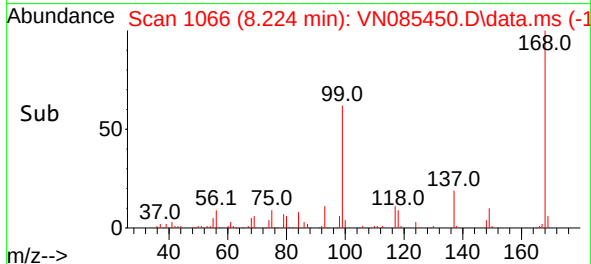
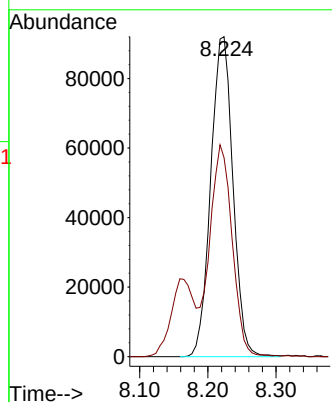
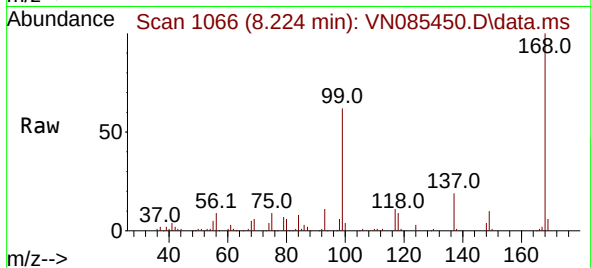




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

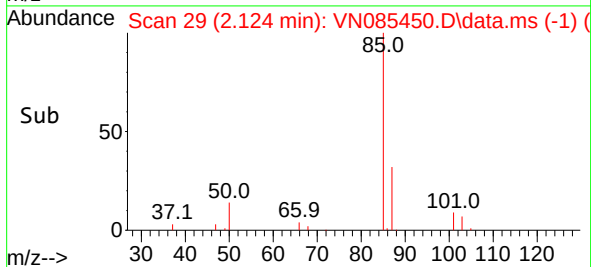
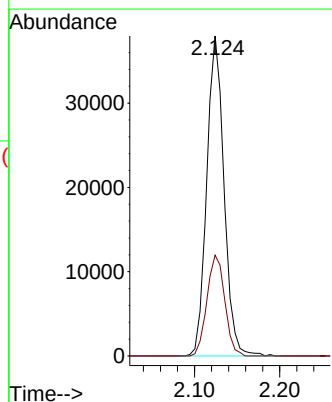
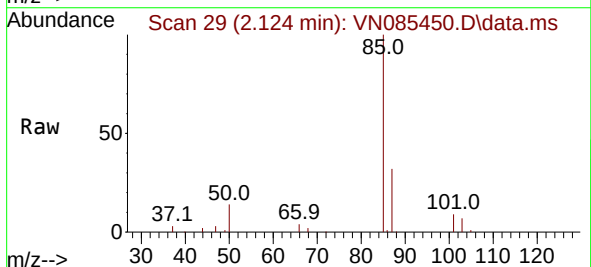
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

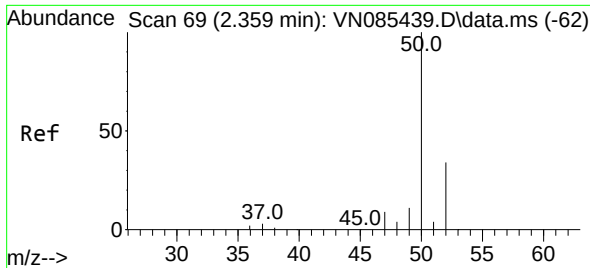
Tgt Ion:168 Resp: 208834
Ion Ratio Lower Upper
168 100
99 62.0 53.6 80.4



#2
Dichlorodifluoromethane
Concen: 18.888 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 85 Resp: 53406
Ion Ratio Lower Upper
85 100
87 31.5 16.7 50.1

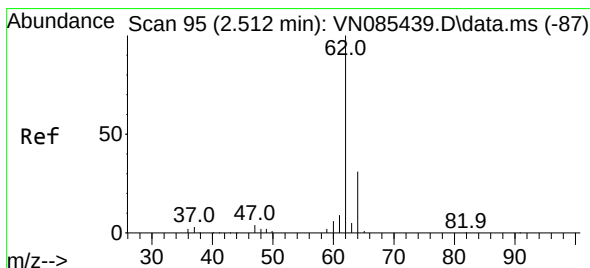
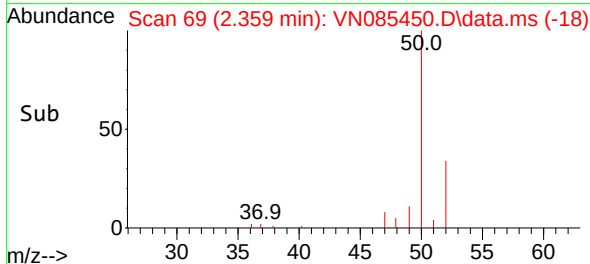
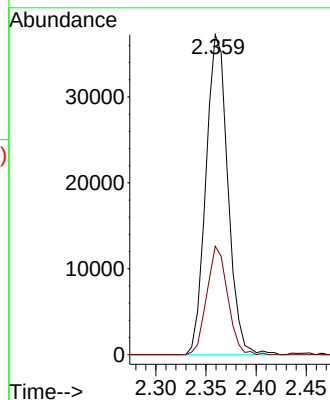
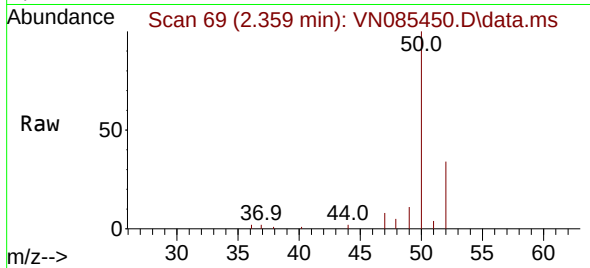




#3
Chloromethane
Concen: 18.542 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

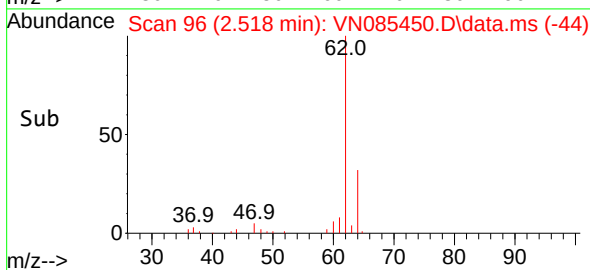
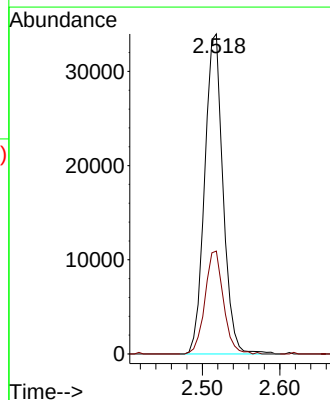
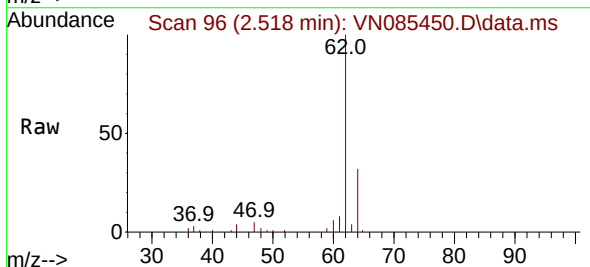
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

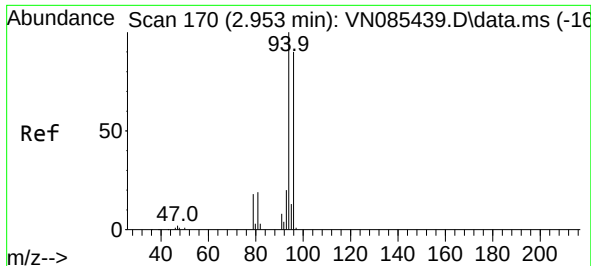
Tgt Ion: 50 Resp: 56766
Ion Ratio Lower Upper
50 100
52 33.9 27.0 40.6



#4
Vinyl Chloride
Concen: 18.175 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 62 Resp: 55927
Ion Ratio Lower Upper
62 100
64 32.2 24.8 37.2

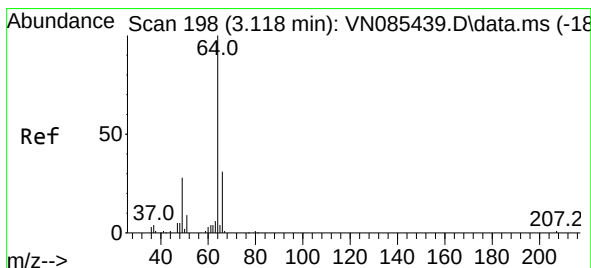
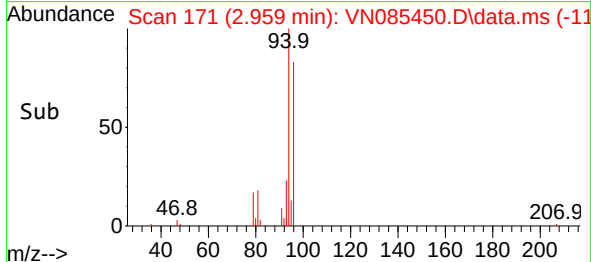
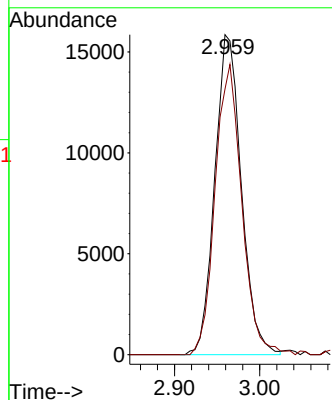
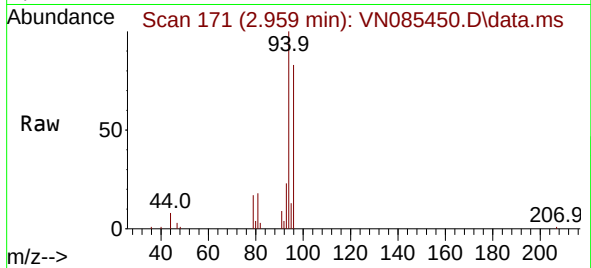




#5
Bromomethane
Concen: 18.509 ug/l
RT: 2.959 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

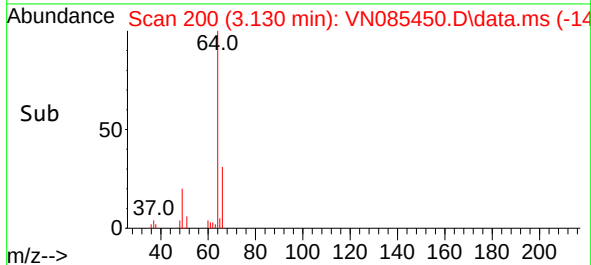
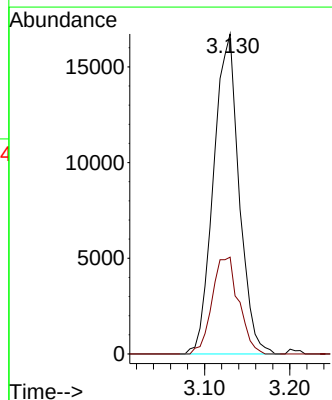
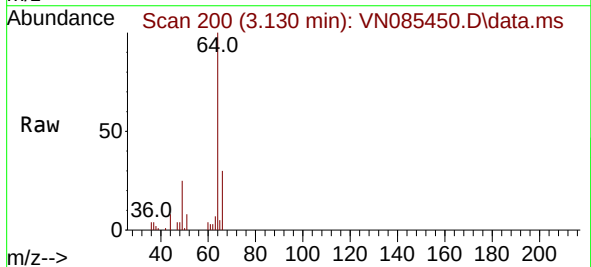
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

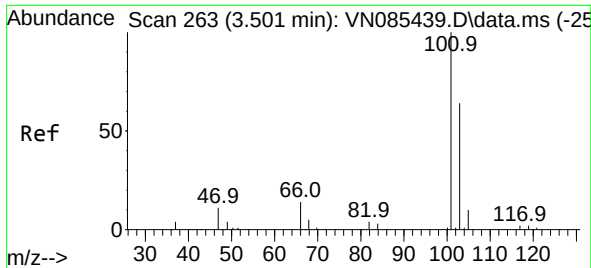
Tgt Ion: 94 Resp: 34404
Ion Ratio Lower Upper
94 100
96 83.0 71.8 107.6



#6
Chloroethane
Concen: 17.847 ug/l
RT: 3.130 min Scan# 200
Delta R.T. 0.012 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 64 Resp: 34817
Ion Ratio Lower Upper
64 100
66 30.2 24.6 36.8

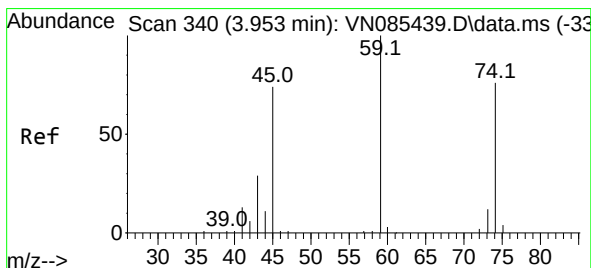
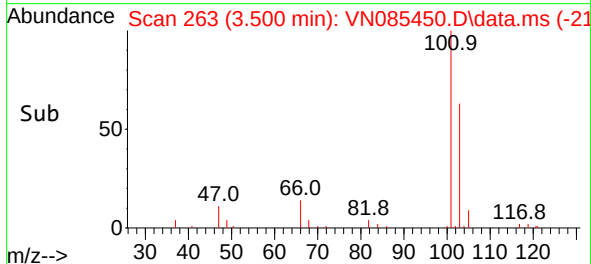
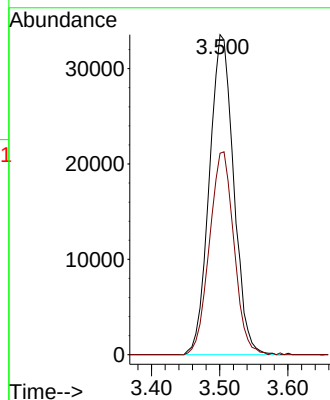
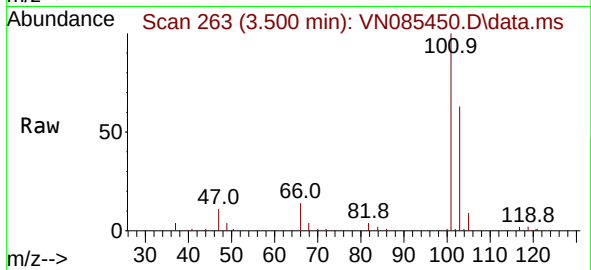




#7
 Trichlorofluoromethane
 Concen: 18.695 ug/l
 RT: 3.500 min Scan# 210
 Delta R.T. -0.000 min
 Lab File: VN085450.D
 Acq: 15 Jan 2025 10:29

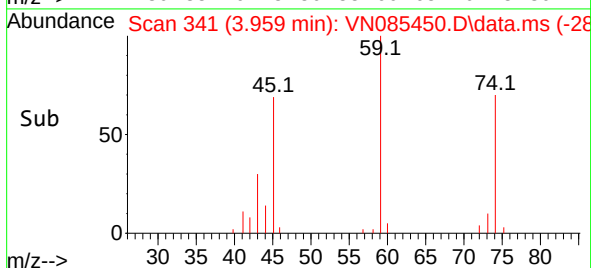
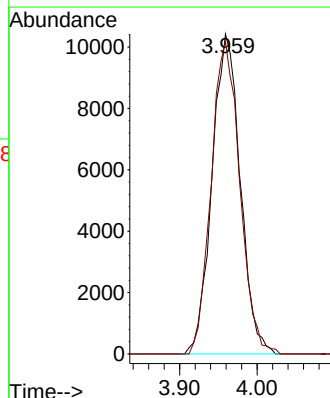
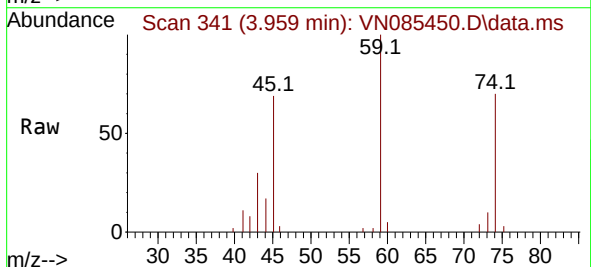
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBS01

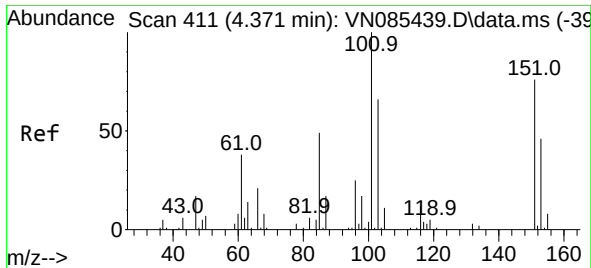
Tgt Ion:101 Resp: 83471
 Ion Ratio Lower Upper
 101 100
 103 62.9 51.4 77.2



#8
 Diethyl Ether
 Concen: 17.097 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. 0.006 min
 Lab File: VN085450.D
 Acq: 15 Jan 2025 10:29

Tgt Ion: 74 Resp: 26372
 Ion Ratio Lower Upper
 74 100
 45 98.9 49.7 149.1

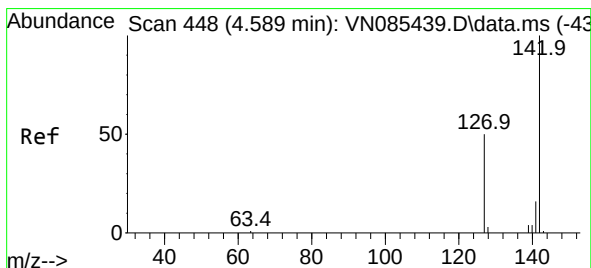
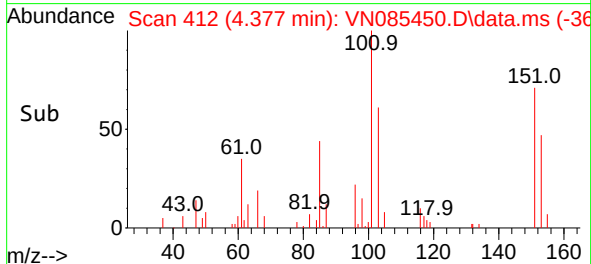
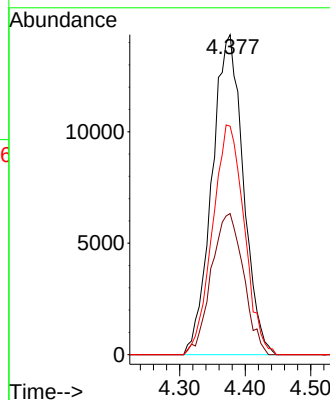
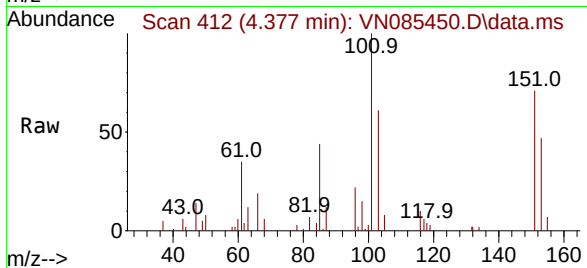




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 18.954 ug/l
 RT: 4.377 min Scan# 411
 Delta R.T. 0.006 min
 Lab File: VN085450.D
 Acq: 15 Jan 2025 10:29

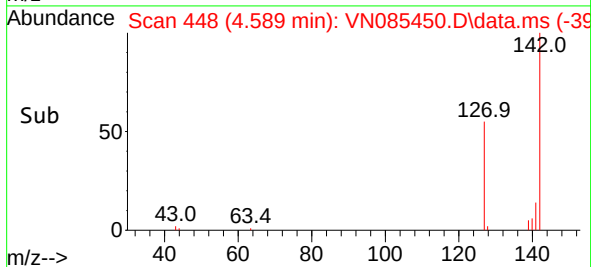
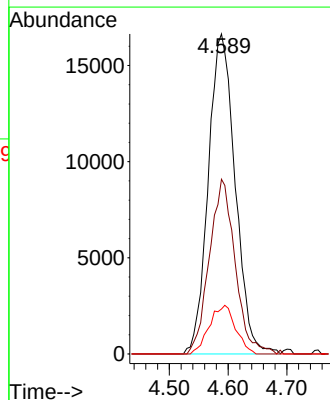
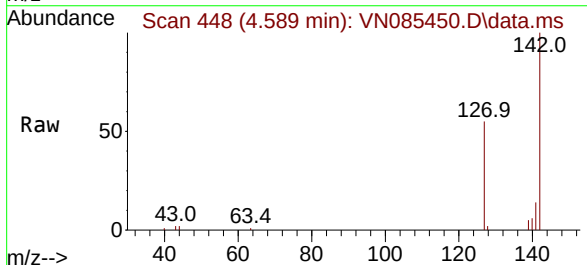
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBS01

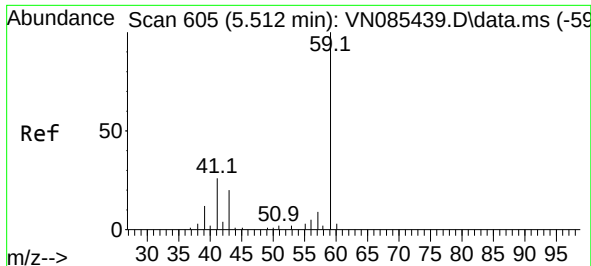
Tgt Ion:101 Resp: 47665
 Ion Ratio Lower Upper
 101 100
 85 45.2 37.8 56.8
 151 72.6 58.8 88.2



#10
 Methyl Iodide
 Concen: 18.346 ug/l
 RT: 4.589 min Scan# 448
 Delta R.T. -0.000 min
 Lab File: VN085450.D
 Acq: 15 Jan 2025 10:29

Tgt Ion:142 Resp: 52836
 Ion Ratio Lower Upper
 142 100
 127 54.6 40.3 60.5
 141 14.1 12.8 19.2

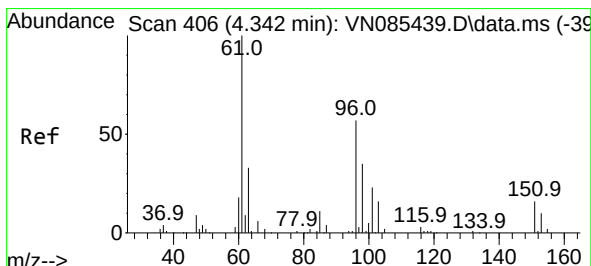
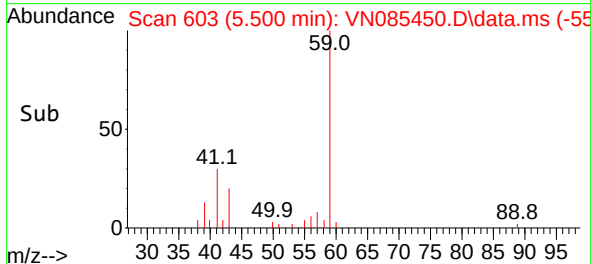
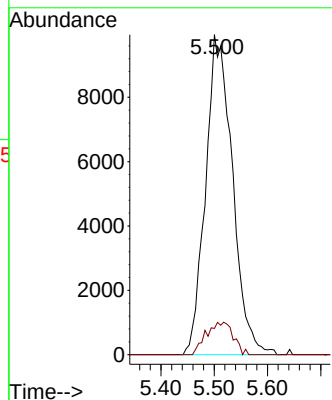
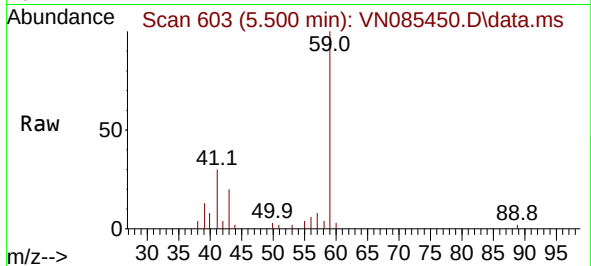




#11
Tert butyl alcohol
Concen: 90.264 ug/l
RT: 5.500 min Scan# 605
Delta R.T. -0.012 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

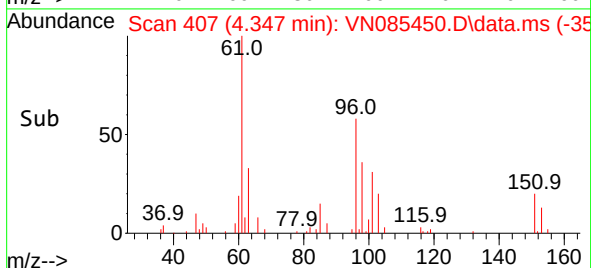
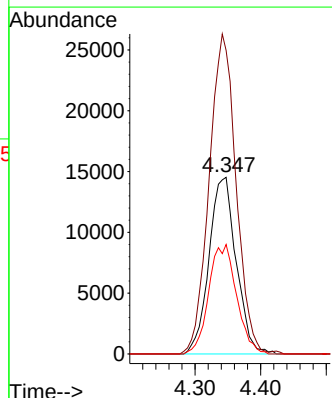
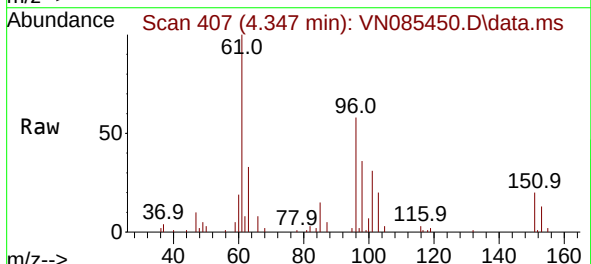
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

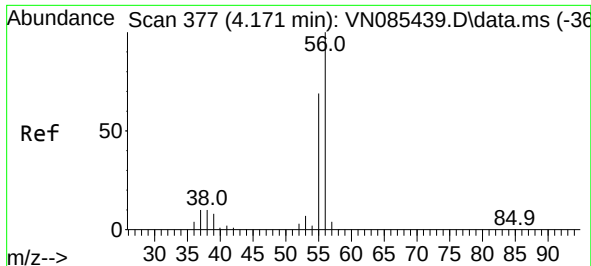
Tgt Ion: 59 Resp: 34842
Ion Ratio Lower Upper
59 100
57 10.2 8.6 13.0



#12
1,1-Dichloroethene
Concen: 18.645 ug/l
RT: 4.347 min Scan# 407
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 96 Resp: 41789
Ion Ratio Lower Upper
96 100
61 171.8 141.0 211.4
98 62.0 49.0 73.6





#13

Acrolein

Concen: 108.299 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

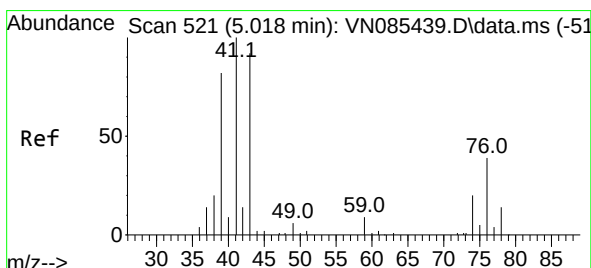
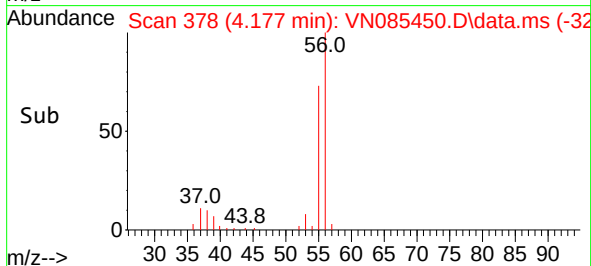
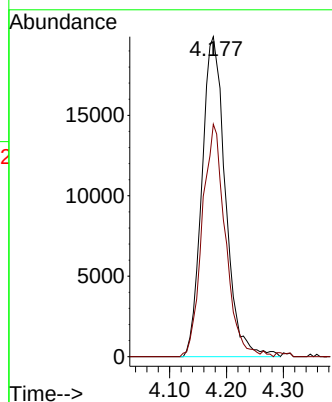
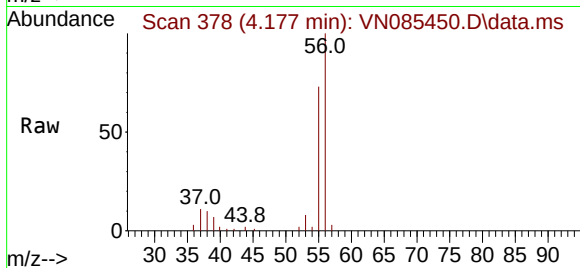
VN0115WBS01

Tgt Ion: 56 Resp: 57066

Ion Ratio Lower Upper

56 100

55 71.4 56.3 84.5



#14

Allyl chloride

Concen: 17.785 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

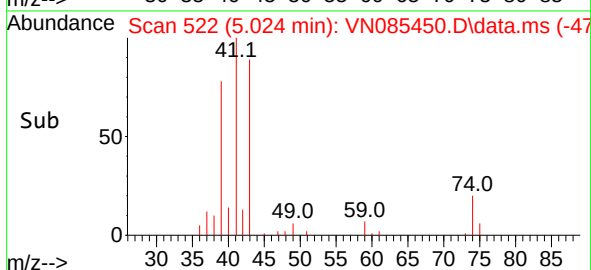
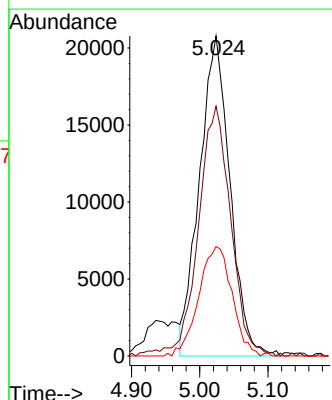
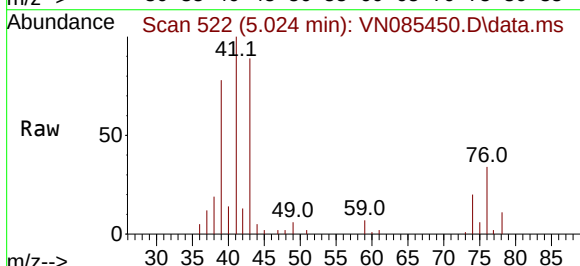
Tgt Ion: 41 Resp: 64682

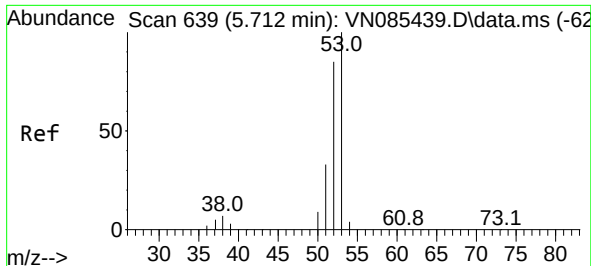
Ion Ratio Lower Upper

41 100

39 83.1 64.4 96.6

76 37.5 30.5 45.7

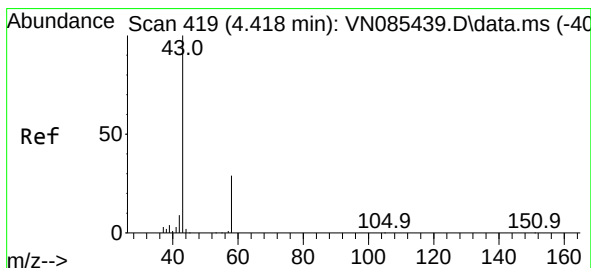
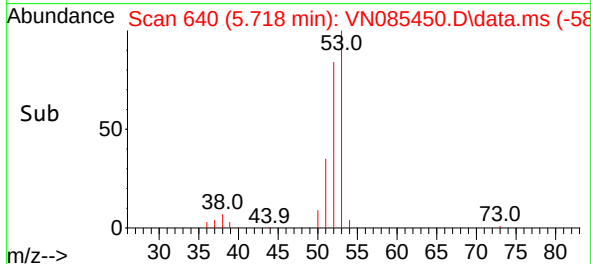
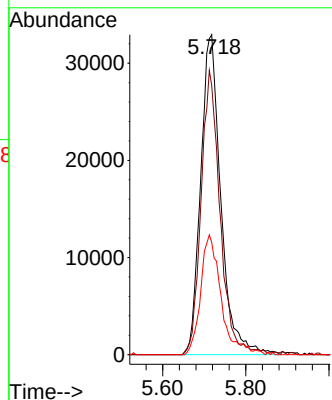
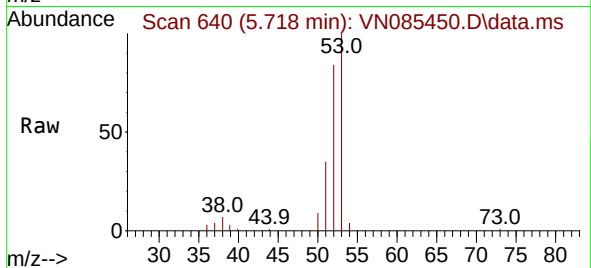




#15
Acrylonitrile
Concen: 90.690 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

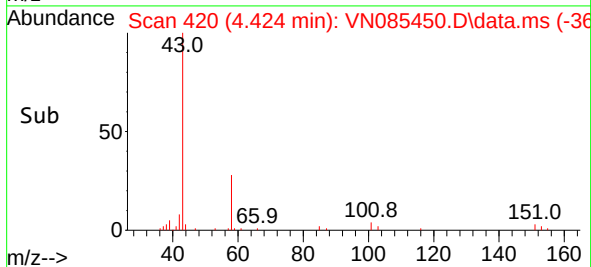
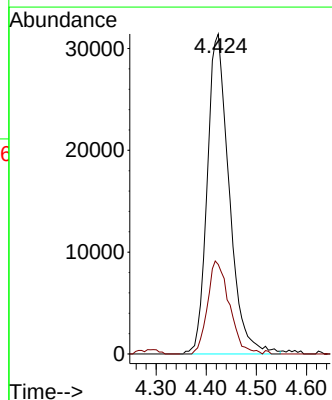
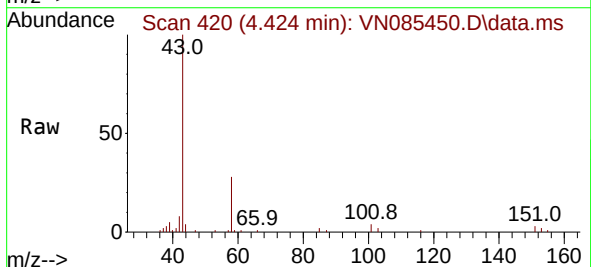
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

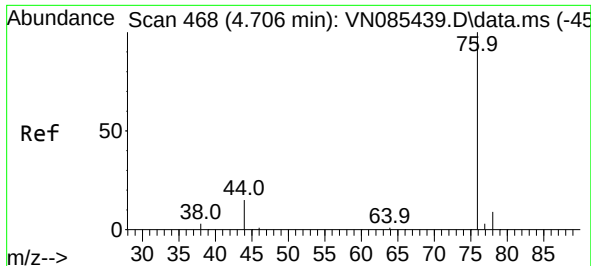
Tgt Ion: 53 Resp: 111192
Ion Ratio Lower Upper
53 100
52 83.8 65.5 98.3
51 37.5 29.8 44.8



#16
Acetone
Concen: 87.661 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 43 Resp: 95481
Ion Ratio Lower Upper
43 100
58 28.0 23.8 35.6

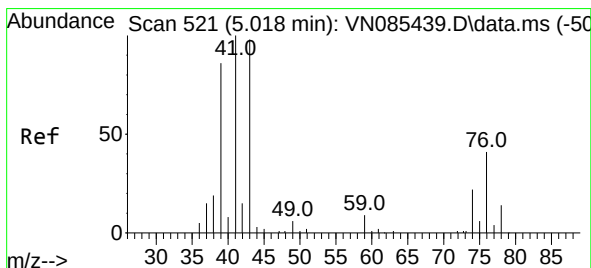
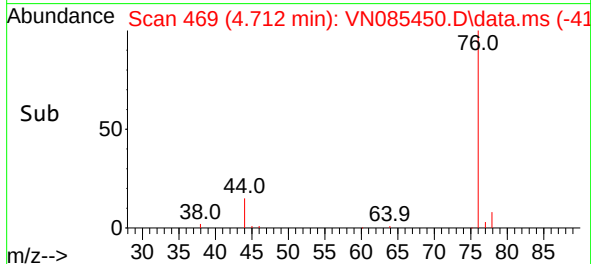
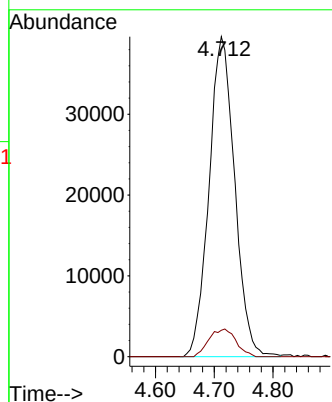
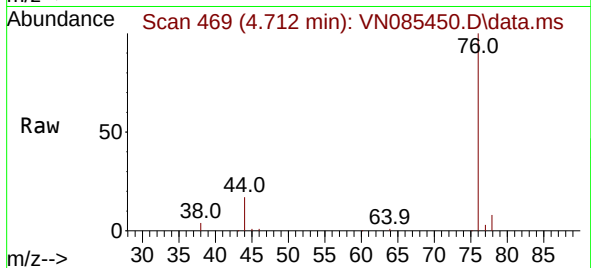




#17
Carbon Disulfide
Concen: 17.395 ug/l
RT: 4.712 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

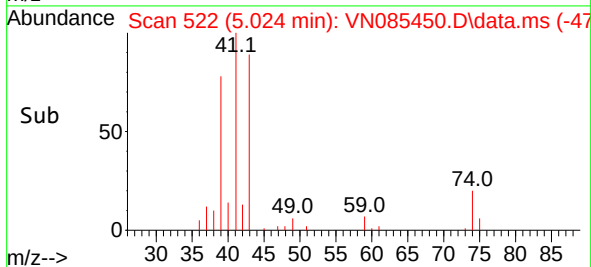
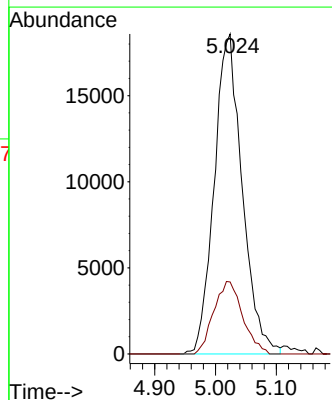
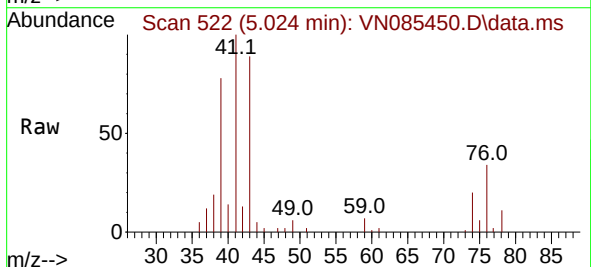
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

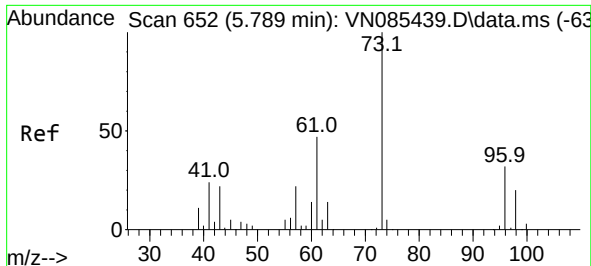
Tgt Ion: 76 Resp: 120042
Ion Ratio Lower Upper
76 100
78 8.2 6.9 10.3



#18
Methyl Acetate
Concen: 17.906 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 43 Resp: 59306
Ion Ratio Lower Upper
43 100
74 23.4 18.6 28.0

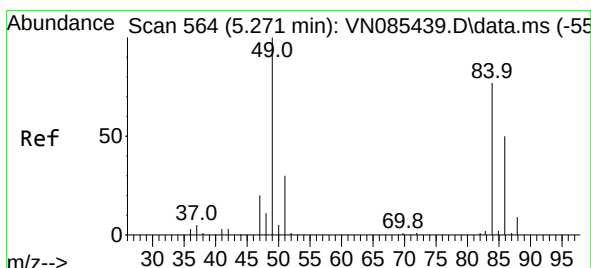
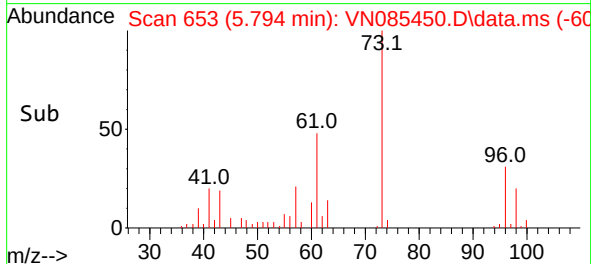
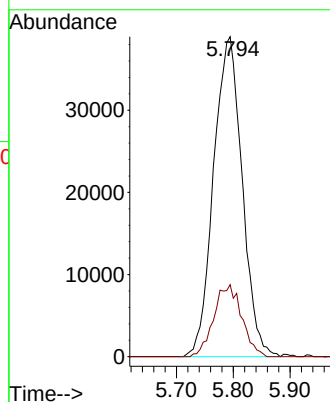
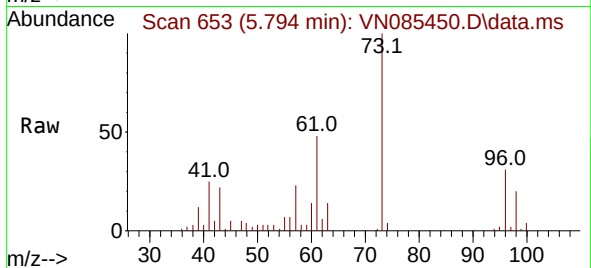




#19
Methyl tert-butyl Ether
Concen: 18.700 ug/l
RT: 5.794 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

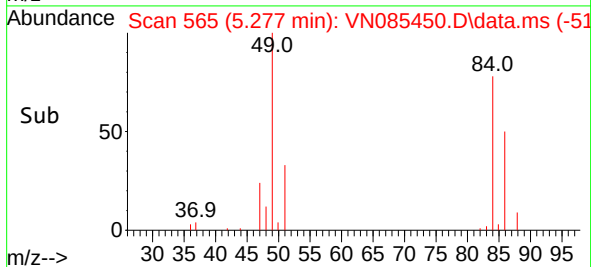
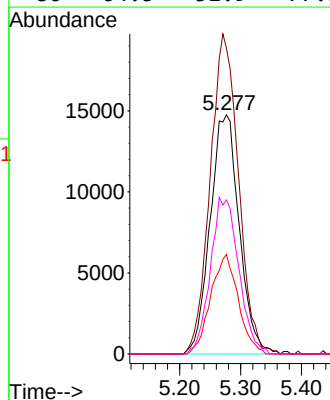
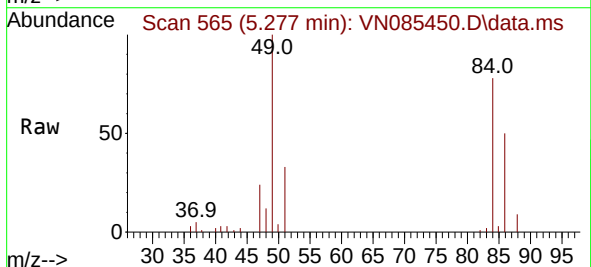
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

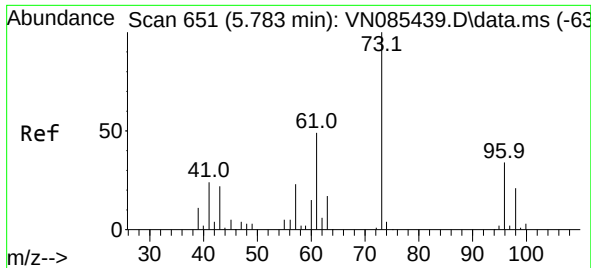
Tgt Ion: 73 Resp: 136088
Ion Ratio Lower Upper
73 100
57 22.5 17.8 26.8



#20
Methylene Chloride
Concen: 18.156 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 84 Resp: 48956
Ion Ratio Lower Upper
84 100
49 128.0 104.1 156.1
51 41.7 31.0 46.4
86 64.5 51.9 77.9

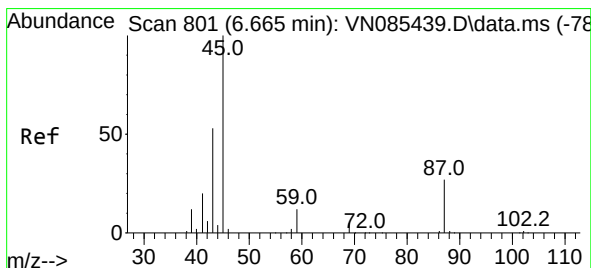
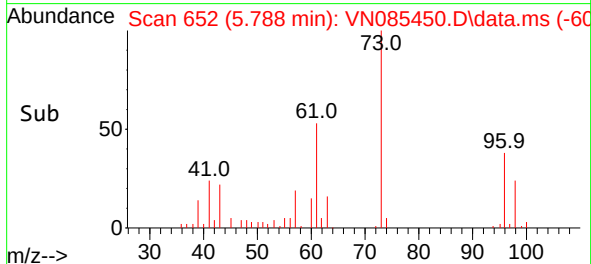
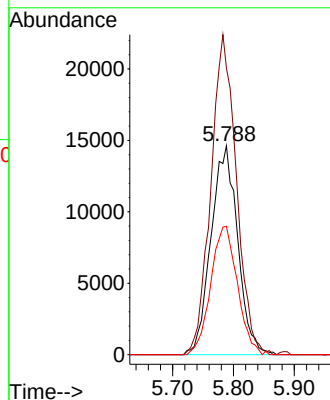
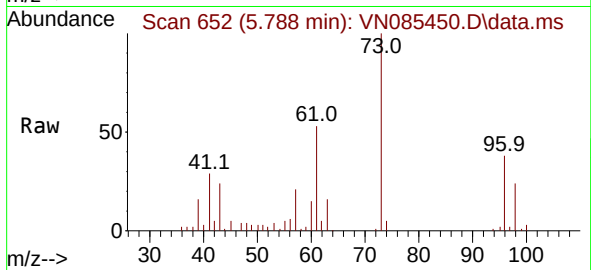




#21
trans-1,2-Dichloroethene
Concen: 18.572 ug/l
RT: 5.788 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

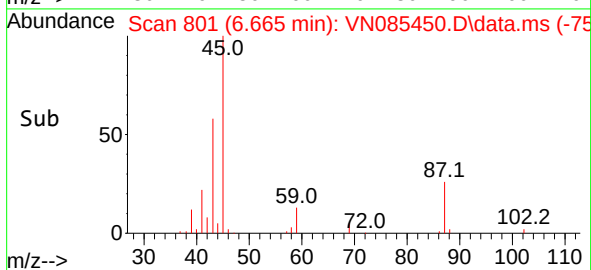
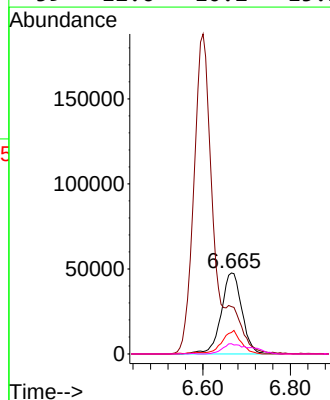
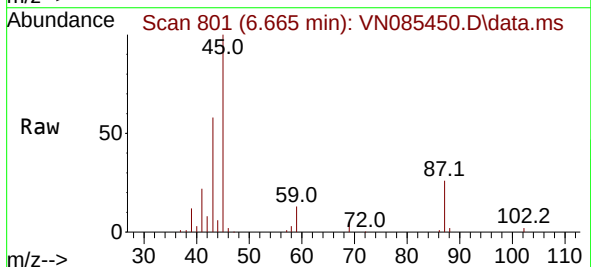
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

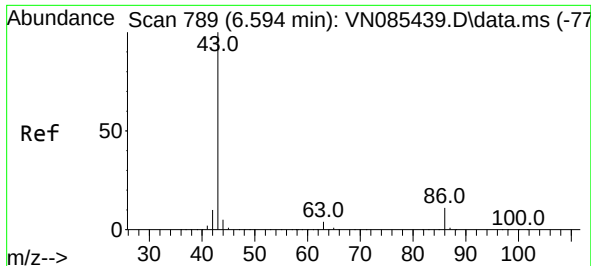
Tgt Ion: 96 Resp: 44485
Ion Ratio Lower Upper
96 100
61 137.2 115.7 173.5
98 61.4 49.8 74.8



#22
Diisopropyl ether
Concen: 19.339 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 45 Resp: 156113
Ion Ratio Lower Upper
45 100
43 56.9 45.0 67.6
87 26.4 21.8 32.8
59 12.6 10.2 15.2

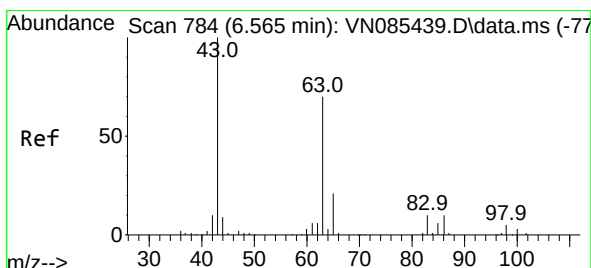
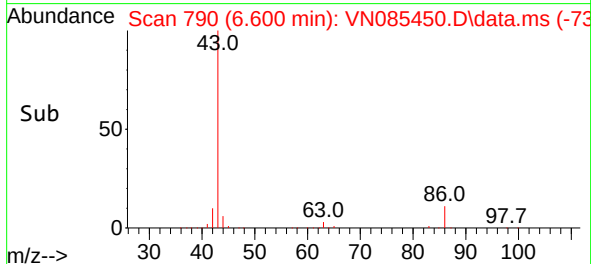
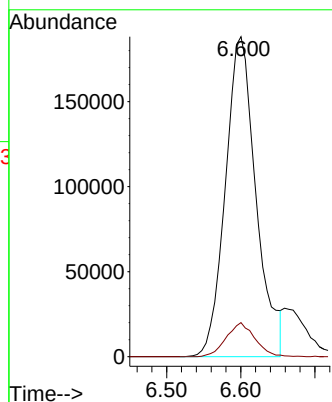
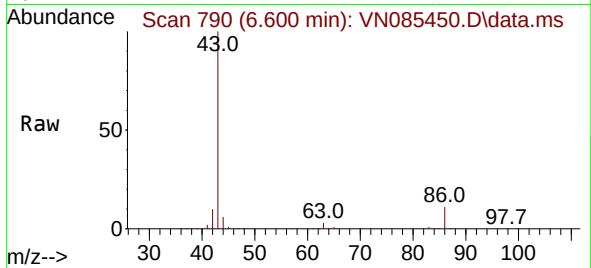




#23
 Vinyl Acetate
 Concen: 95.740 ug/l
 RT: 6.600 min Scan# 790
 Delta R.T. 0.006 min
 Lab File: VN085450.D
 Acq: 15 Jan 2025 10:29

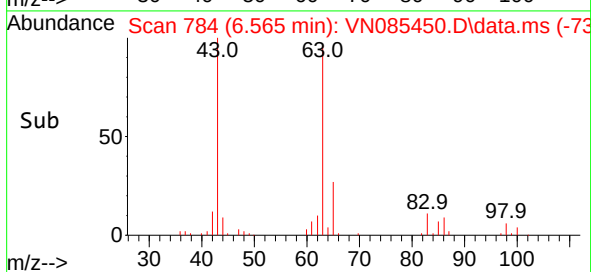
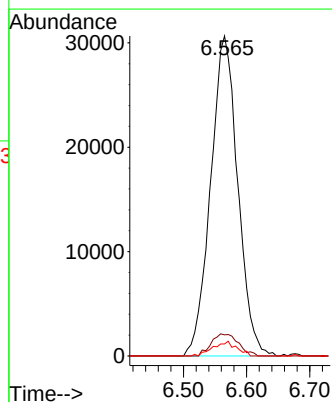
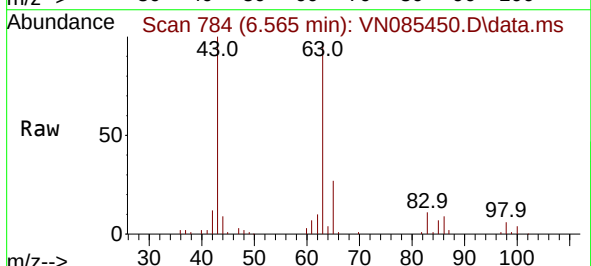
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBS01

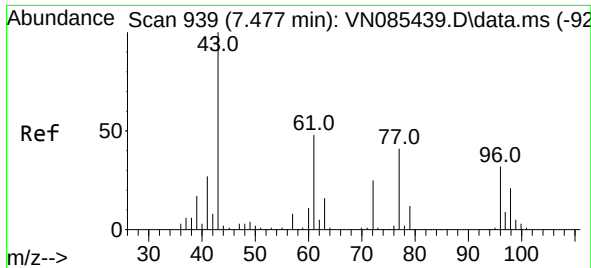
Tgt Ion: 43 Resp: 540854
 Ion Ratio Lower Upper
 43 100
 86 10.7 8.4 12.6



#24
 1,1-Dichloroethane
 Concen: 18.597 ug/l
 RT: 6.565 min Scan# 784
 Delta R.T. -0.000 min
 Lab File: VN085450.D
 Acq: 15 Jan 2025 10:29

Tgt Ion: 63 Resp: 91537
 Ion Ratio Lower Upper
 63 100
 98 6.6 3.3 9.8
 100 3.8 2.0 6.0

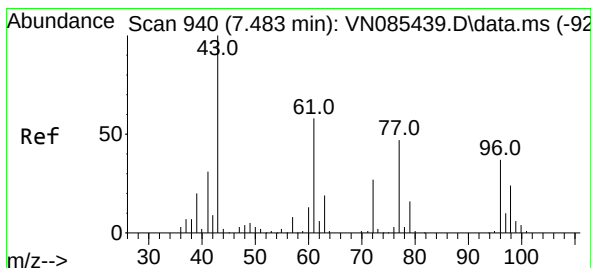
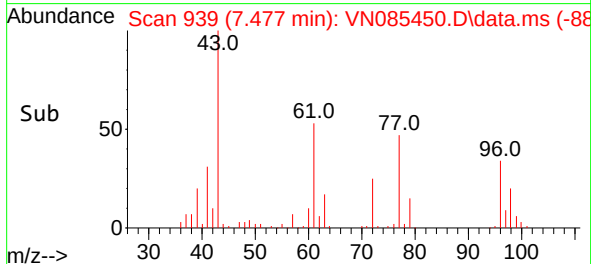
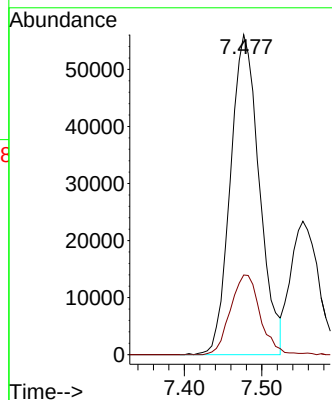
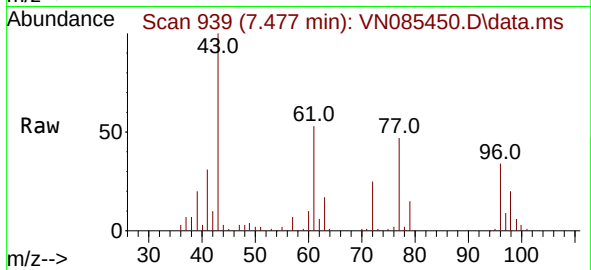




#25
2-Butanone
Concen: 91.155 ug/l
RT: 7.477 min Scan# 911
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

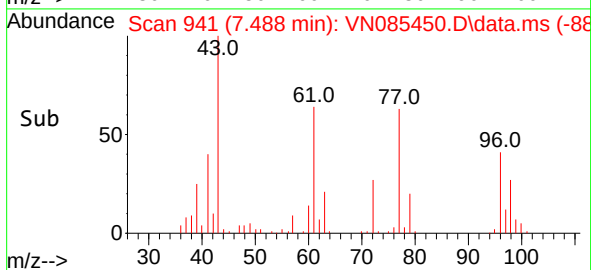
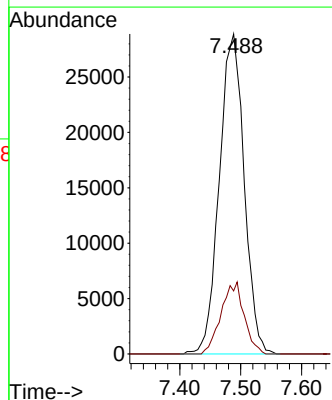
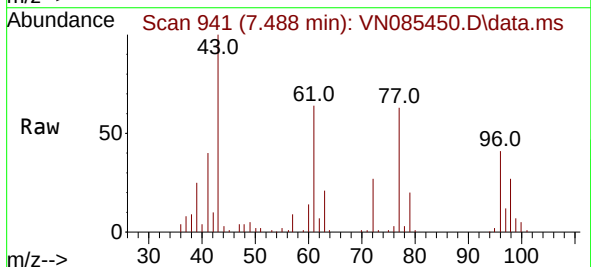
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

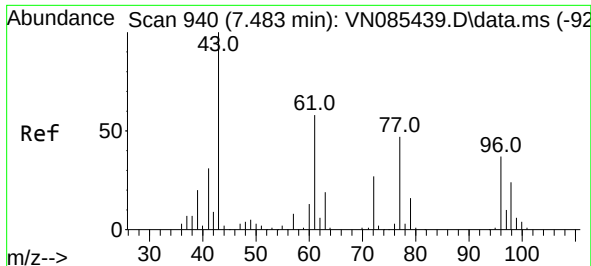
Tgt Ion: 43 Resp: 146109
Ion Ratio Lower Upper
43 100
72 24.9 20.2 30.4



#26
2,2-Dichloropropane
Concen: 20.576 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 77 Resp: 81881
Ion Ratio Lower Upper
77 100
97 20.8 10.7 32.1

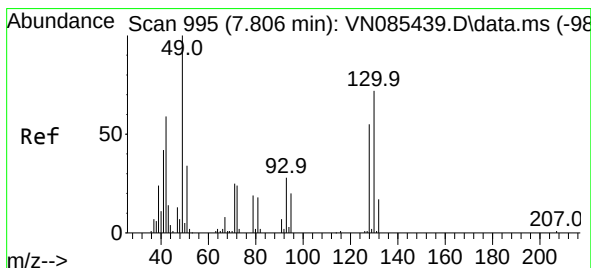
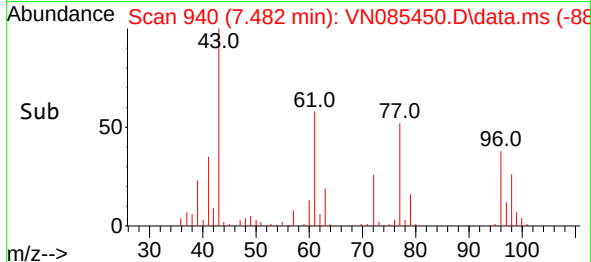
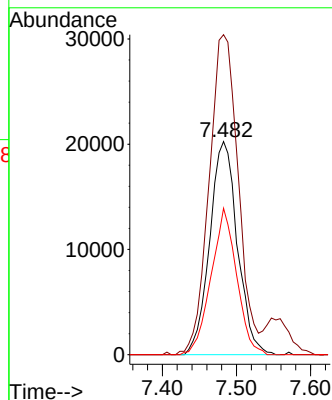
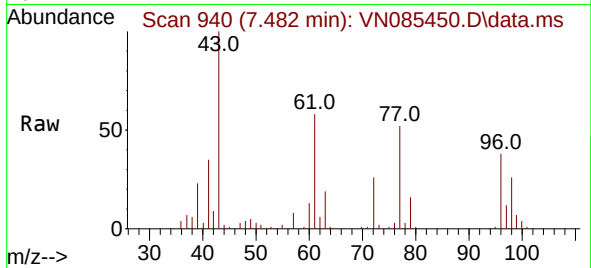




#27
 cis-1,2-Dichloroethene
 Concen: 18.654 ug/l
 RT: 7.482 min Scan# 940
 Delta R.T. -0.000 min
 Lab File: VN085450.D
 Acq: 15 Jan 2025 10:29

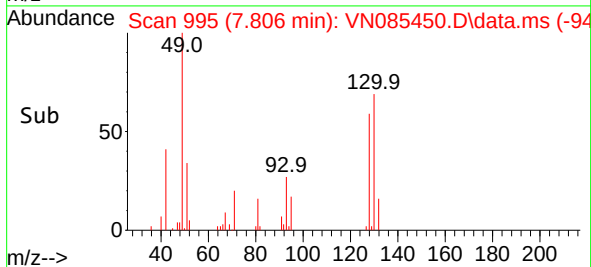
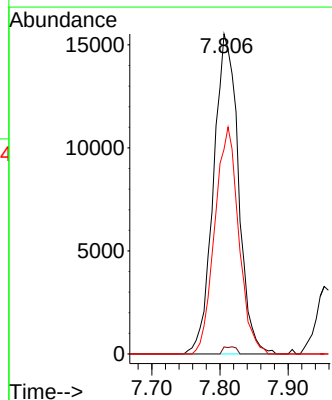
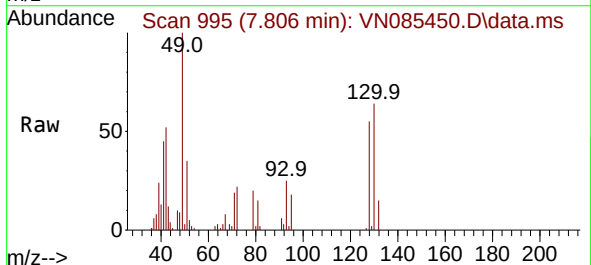
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBS01

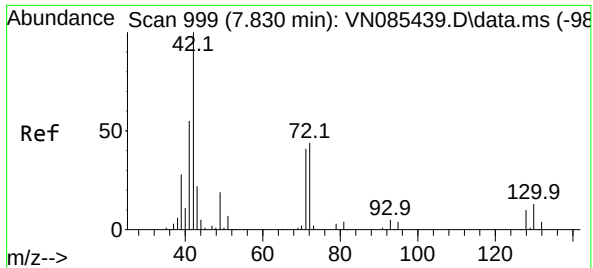
Tgt Ion: 96 Resp: 52626
 Ion Ratio Lower Upper
 96 100
 61 157.4 0.0 311.8
 98 63.4 0.0 126.0



#28
 Bromochloromethane
 Concen: 17.209 ug/l
 RT: 7.806 min Scan# 995
 Delta R.T. -0.000 min
 Lab File: VN085450.D
 Acq: 15 Jan 2025 10:29

Tgt Ion: 49 Resp: 39408
 Ion Ratio Lower Upper
 49 100
 129 1.2 0.0 4.4
 130 68.3 55.0 82.4

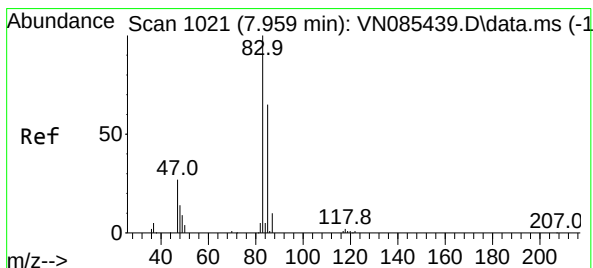
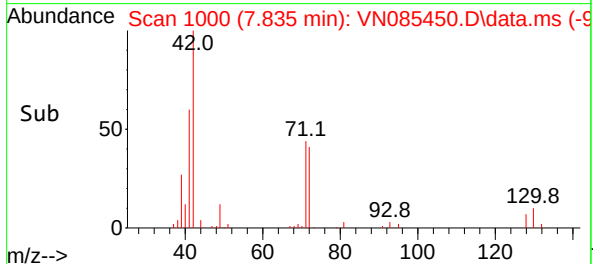
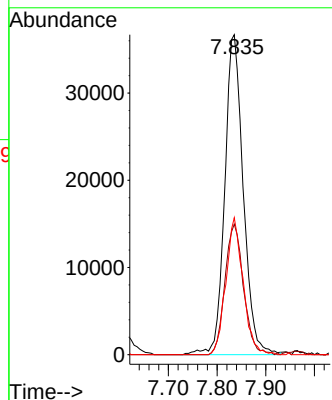
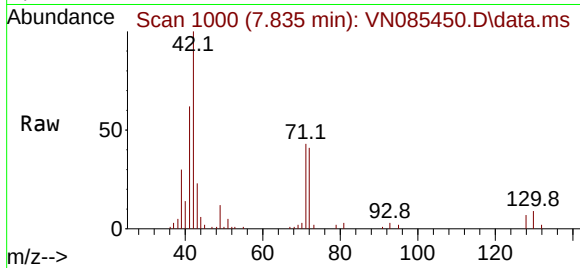




#29
Tetrahydrofuran
Concen: 95.619 ug/l
RT: 7.835 min Scan# 1000
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

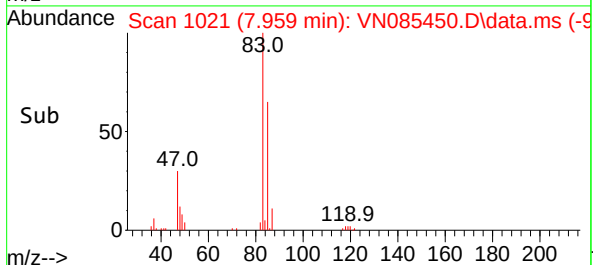
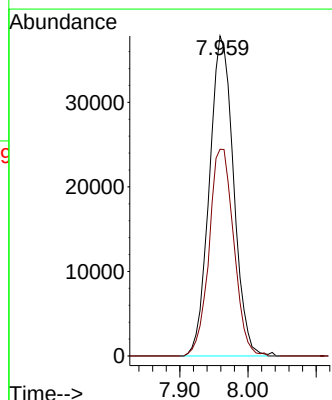
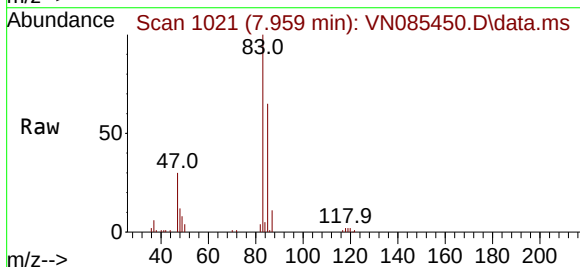
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

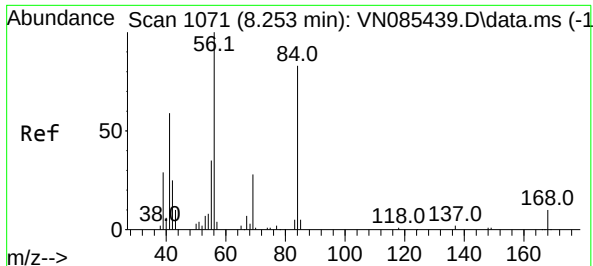
Tgt Ion: 42 Resp: 97170
Ion Ratio Lower Upper
42 100
72 40.8 34.2 51.2
71 39.9 32.5 48.7



#30
Chloroform
Concen: 18.400 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 83 Resp: 93604
Ion Ratio Lower Upper
83 100
85 64.6 51.8 77.6

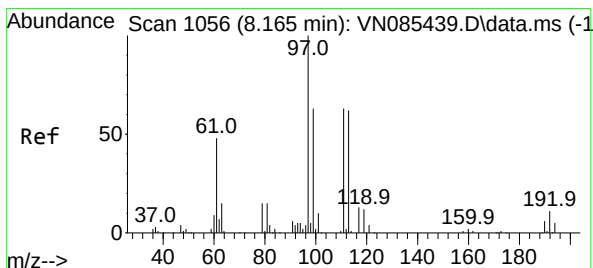
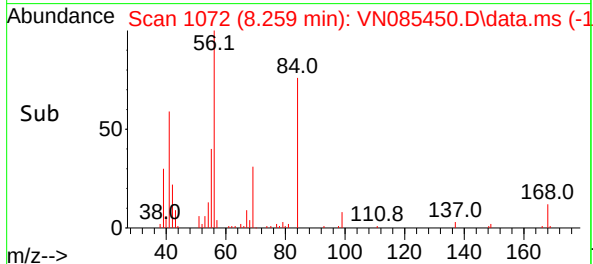
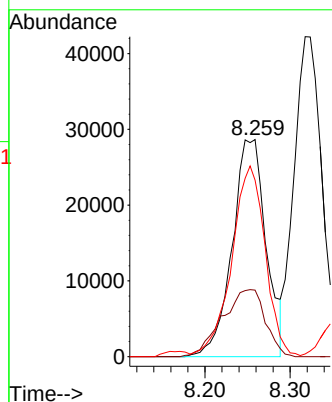
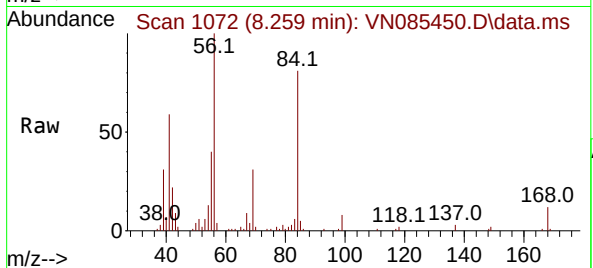




#31
Cyclohexane
Concen: 18.500 ug/l
RT: 8.259 min Scan# 1072
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

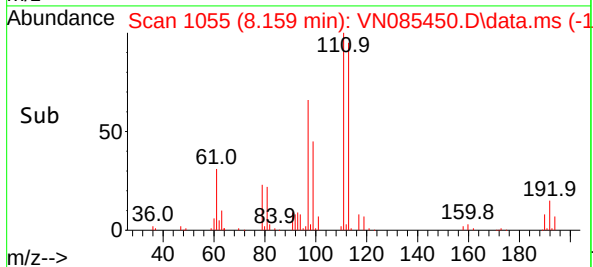
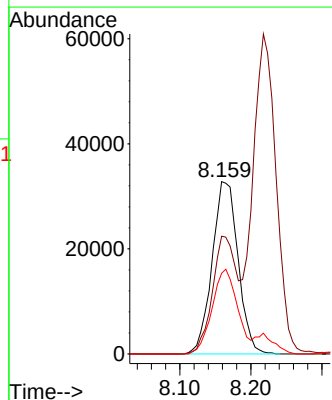
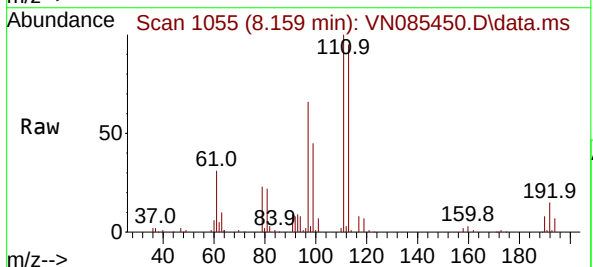
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

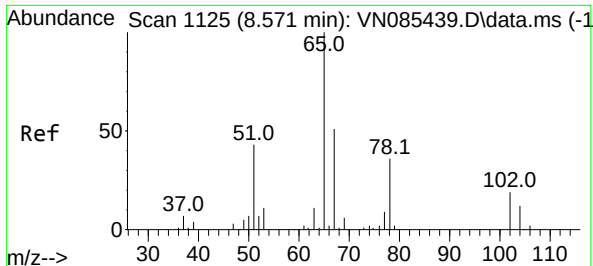
Tgt Ion: 56 Resp: 79144
Ion Ratio Lower Upper
56 100
69 30.0 22.2 33.4
84 78.9 66.4 99.6



#32
1,1,1-Trichloroethane
Concen: 18.618 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 97 Resp: 83081
Ion Ratio Lower Upper
97 100
99 61.6 49.8 74.6
61 48.2 41.4 62.2





#33

1,2-Dichloroethane-d4

Concen: 47.611 ug/l

RT: 8.576 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

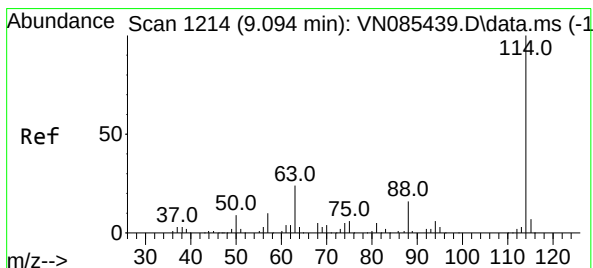
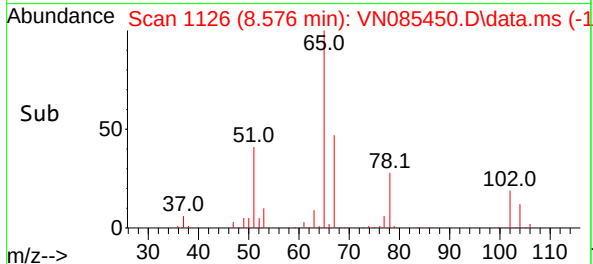
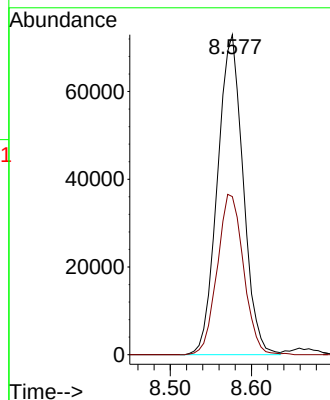
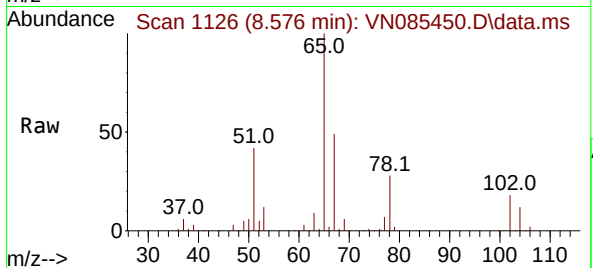
VN0115WBS01

Tgt Ion: 65 Resp: 160496

Ion Ratio Lower Upper

65 100

67 51.3 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

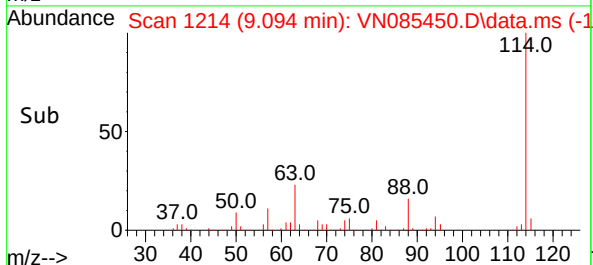
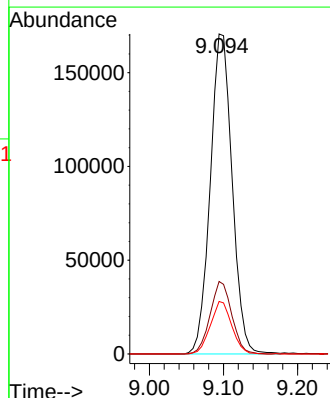
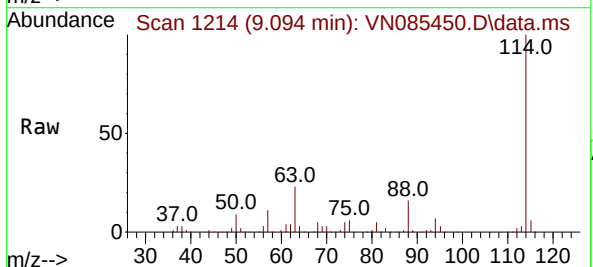
Tgt Ion: 114 Resp: 350038

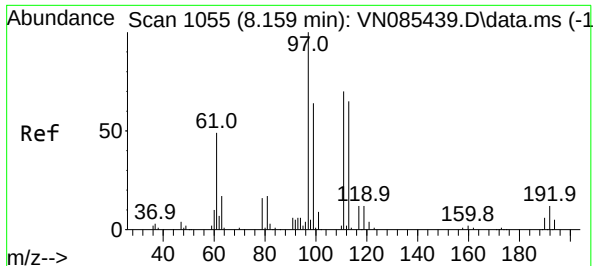
Ion Ratio Lower Upper

114 100

63 22.7 0.0 47.6

88 16.4 0.0 32.6





#35

Dibromofluoromethane

Concen: 48.506 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

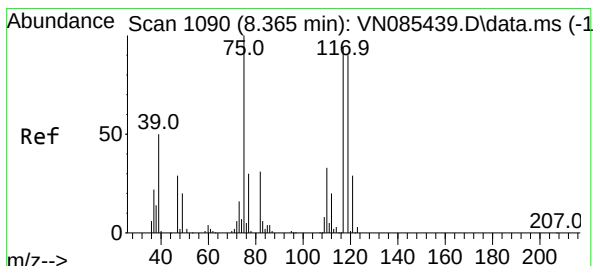
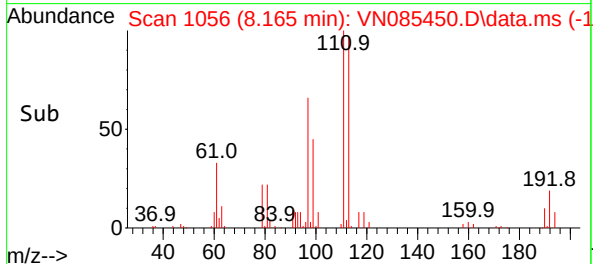
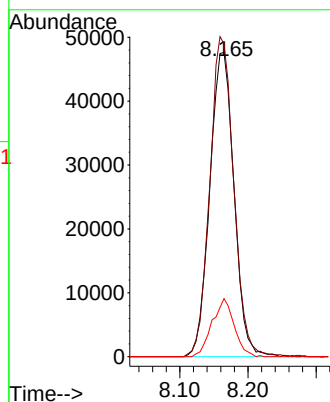
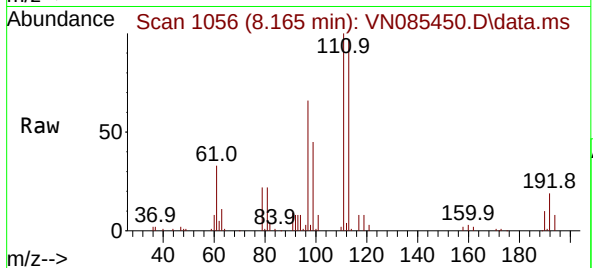
Tgt Ion:113 Resp: 117791

Ion Ratio Lower Upper

113 100

111 103.8 82.7 124.1

192 17.4 14.3 21.5



#36

1,1-Dichloropropene

Concen: 18.521 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

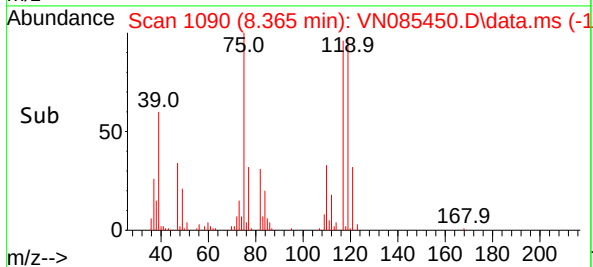
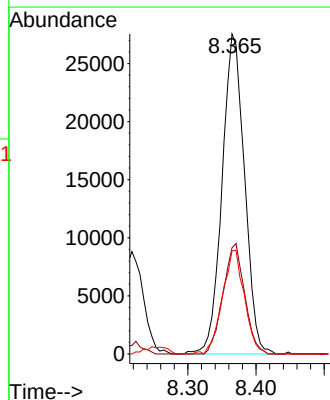
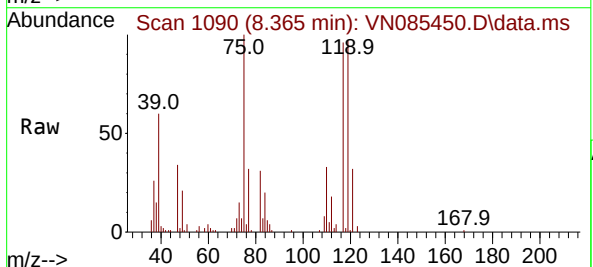
Tgt Ion: 75 Resp: 63125

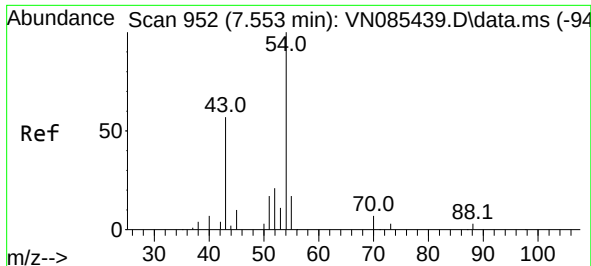
Ion Ratio Lower Upper

75 100

110 33.2 16.5 49.5

77 31.7 24.4 36.6





#37

Ethyl Acetate

Concen: 18.113 ug/l

RT: 7.553 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

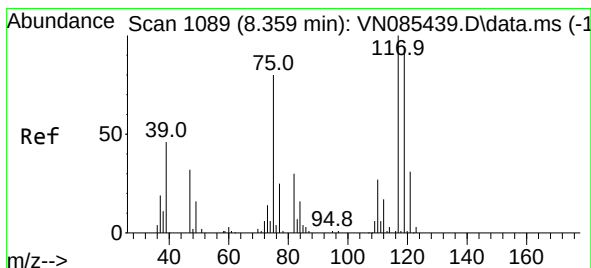
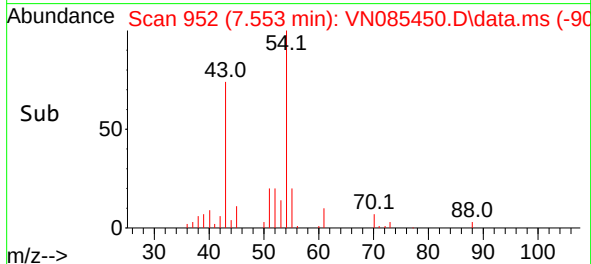
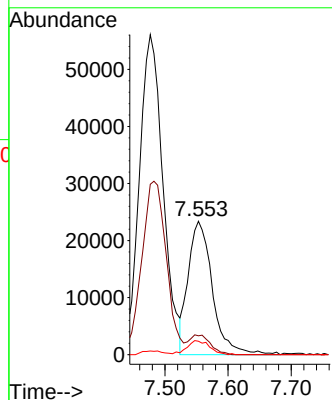
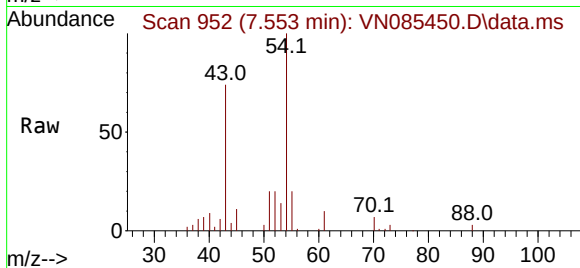
Tgt Ion: 43 Resp: 62310

Ion Ratio Lower Upper

43 100

61 12.0 10.9 16.3

70 9.8 7.5 11.3



#38

Carbon Tetrachloride

Concen: 19.039 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

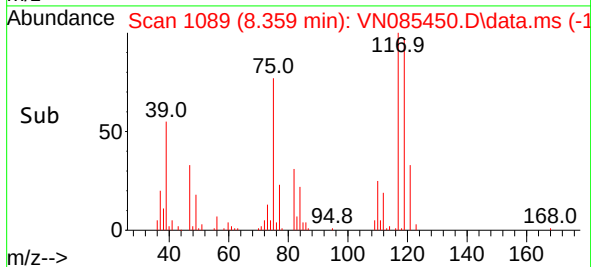
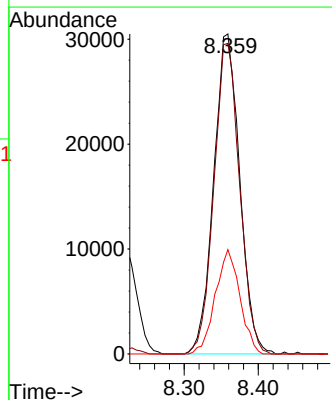
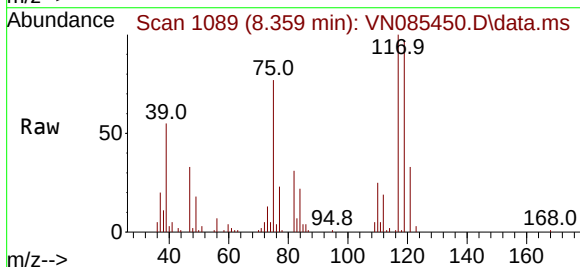
Tgt Ion: 117 Resp: 74287

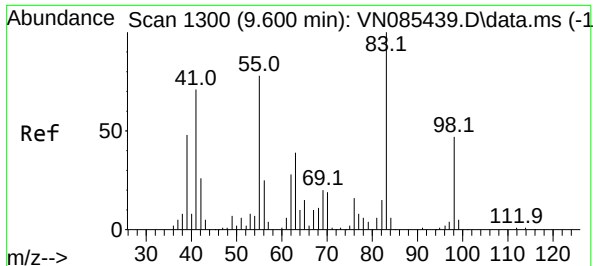
Ion Ratio Lower Upper

117 100

119 97.1 75.4 113.2

121 32.6 24.6 37.0





#39

Methylcyclohexane

Concen: 19.799 ug/l

RT: 9.594 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

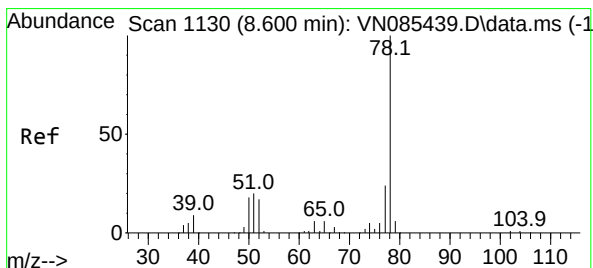
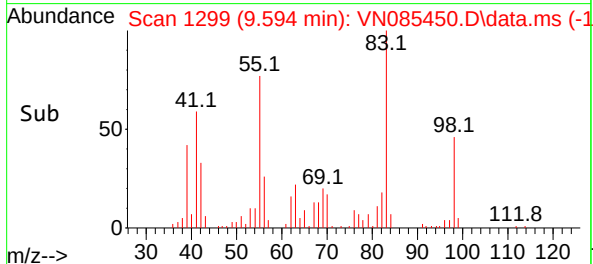
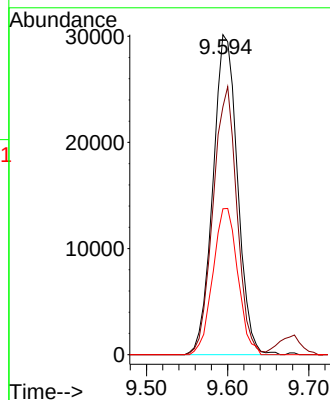
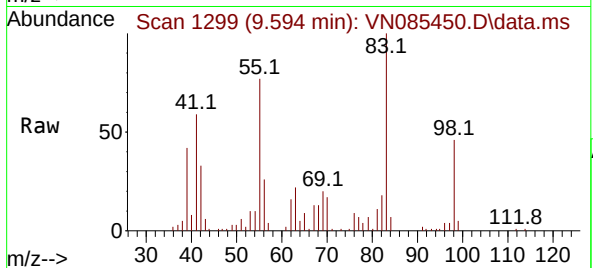
Tgt Ion: 83 Resp: 63410

Ion Ratio Lower Upper

83 100

55 77.5 62.6 94.0

98 45.6 37.7 56.5



#40

Benzene

Concen: 19.222 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085450.D

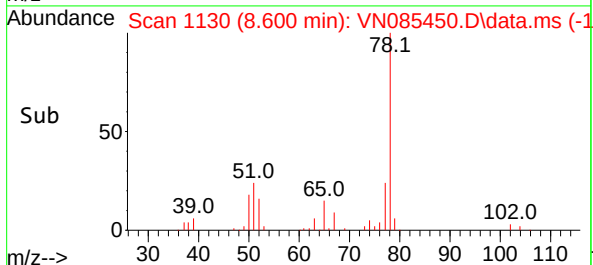
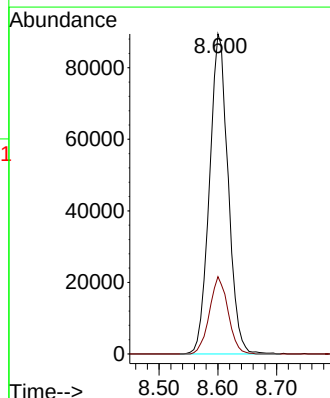
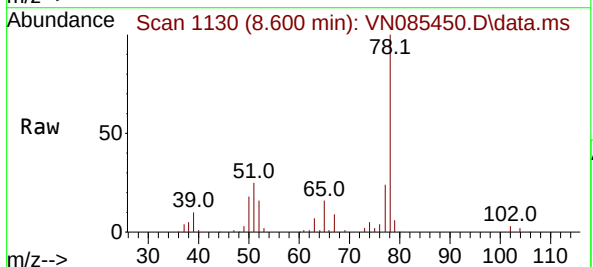
Acq: 15 Jan 2025 10:29

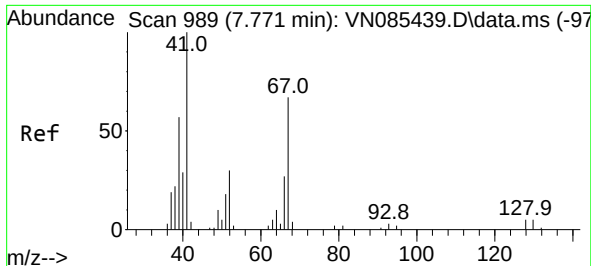
Tgt Ion: 78 Resp: 196843

Ion Ratio Lower Upper

78 100

77 24.1 19.0 28.6

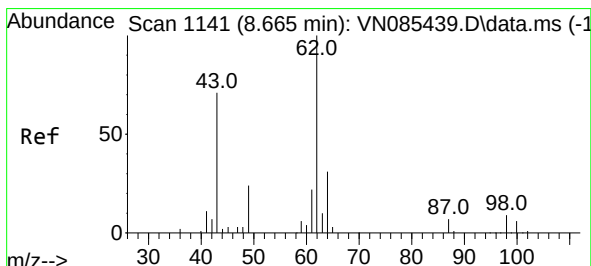
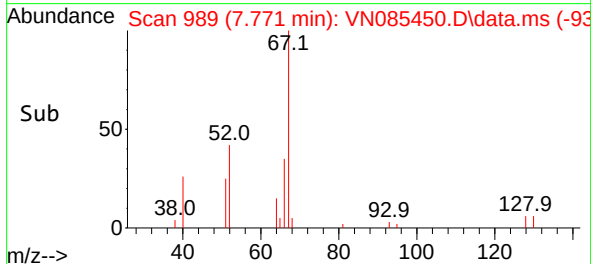
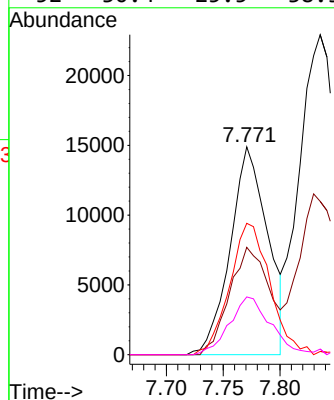
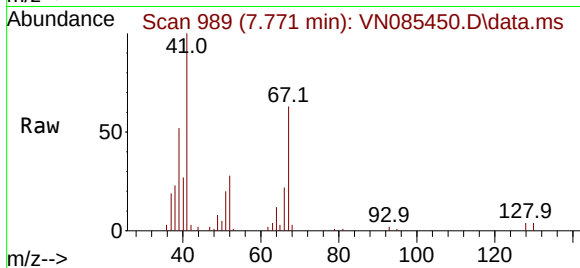




#41
Methacrylonitrile
Concen: 19.082 ug/l
RT: 7.771 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

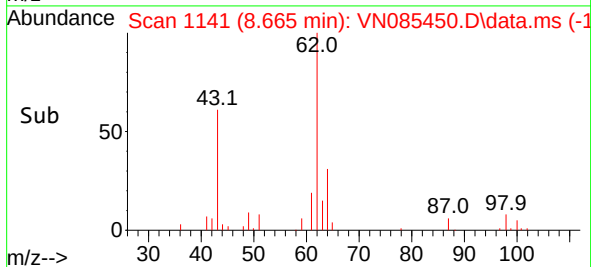
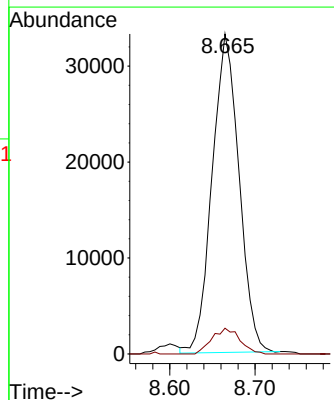
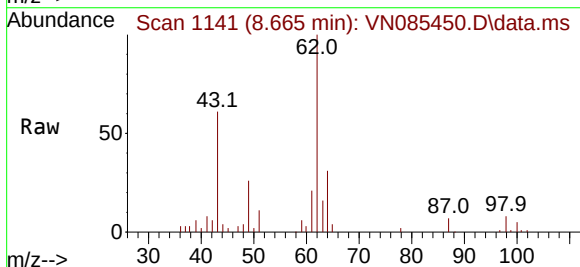
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

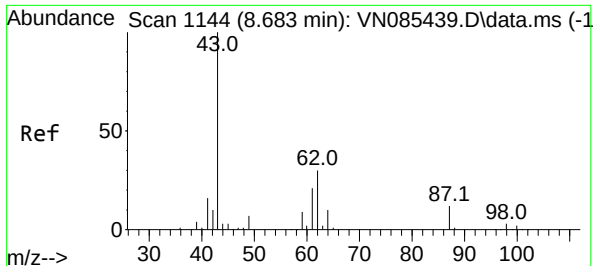
Tgt Ion:	41	Resp:	34152
Ion	Ratio	Lower	Upper
41	100		
39	55.0	46.0	69.0
67	68.1	57.4	86.2
52	30.4	25.5	38.3



#42
1,2-Dichloroethane
Concen: 18.835 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:	62	Resp:	72644
Ion	Ratio	Lower	Upper
62	100		
98	8.4	0.0	17.0





#43

Isopropyl Acetate

Concen: 18.059 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

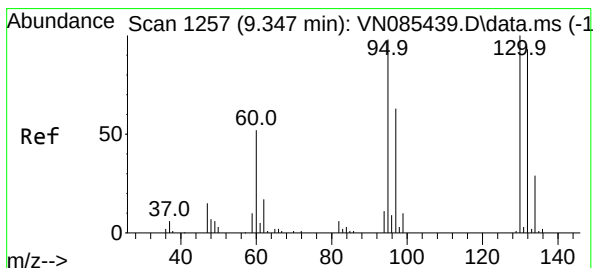
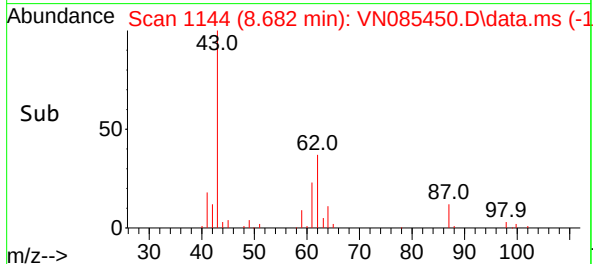
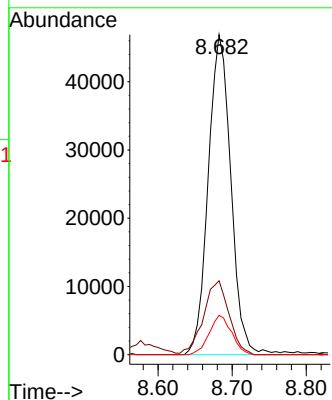
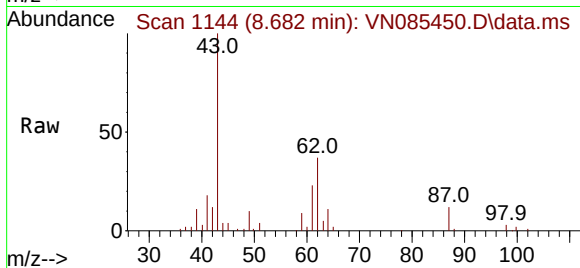
Tgt Ion: 43 Resp: 99545

Ion Ratio Lower Upper

43 100

61 26.0 20.7 31.1

87 12.1 9.8 14.8



#44

Trichloroethene

Concen: 19.224 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.000 min

Lab File: VN085450.D

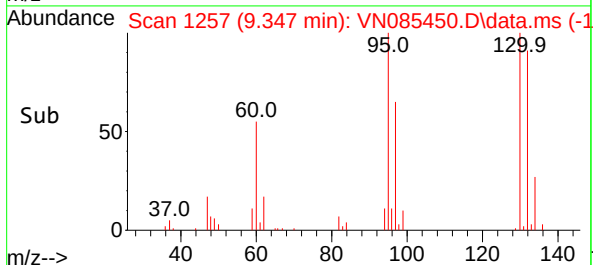
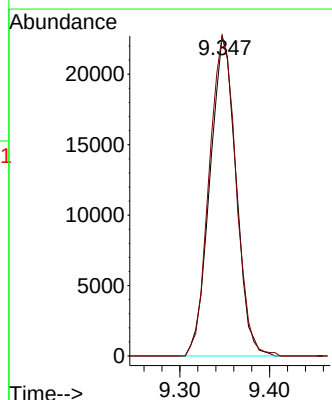
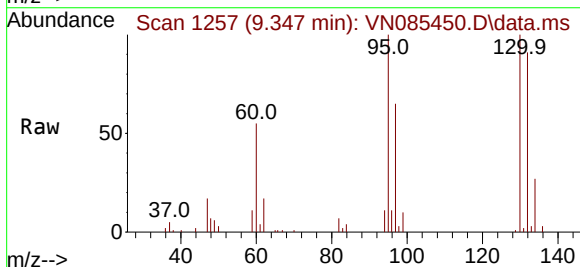
Acq: 15 Jan 2025 10:29

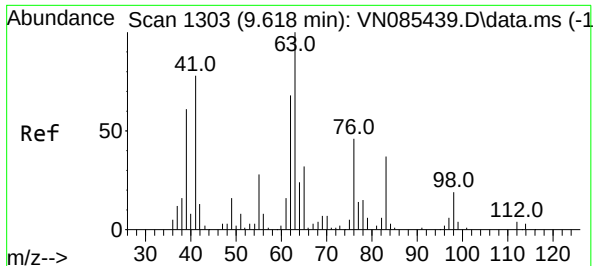
Tgt Ion:130 Resp: 45825

Ion Ratio Lower Upper

130 100

95 100.0 0.0 195.8





#45

1,2-Dichloropropane

Concen: 18.931 ug/l

RT: 9.618 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

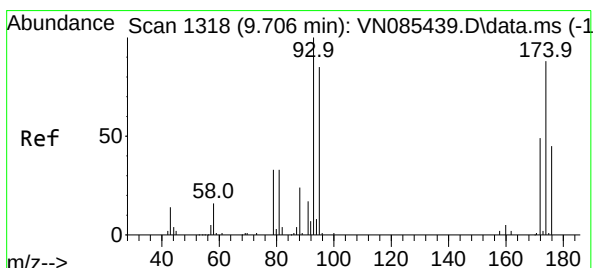
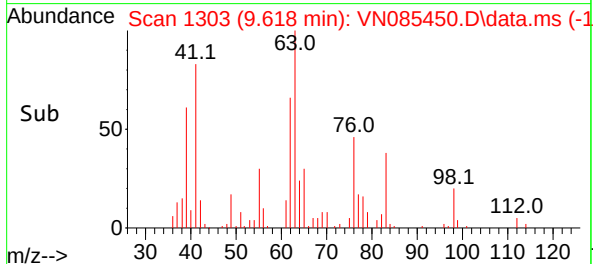
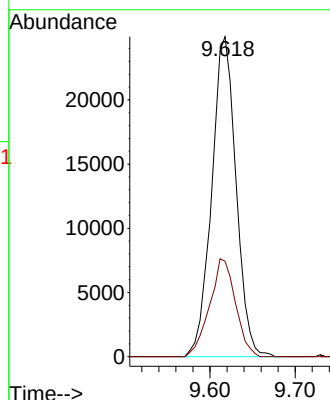
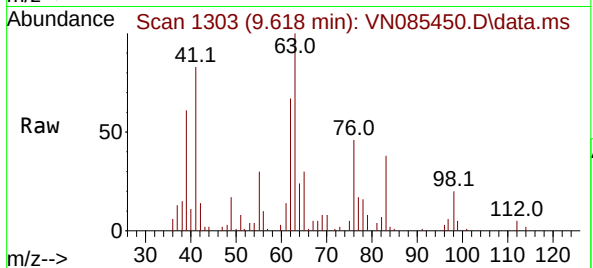
VN0115WBS01

Tgt Ion: 63 Resp: 49517

Ion Ratio Lower Upper

63 100

65 29.8 25.6 38.4



#46

Dibromomethane

Concen: 18.531 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

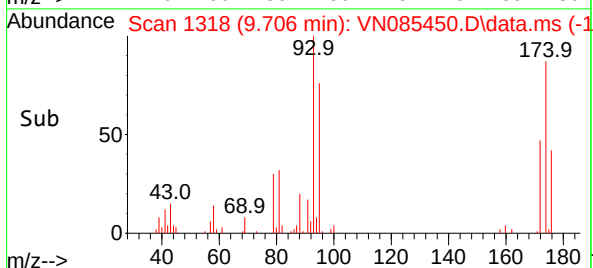
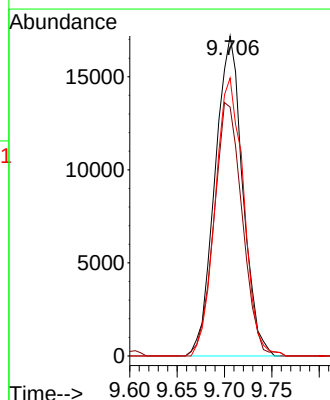
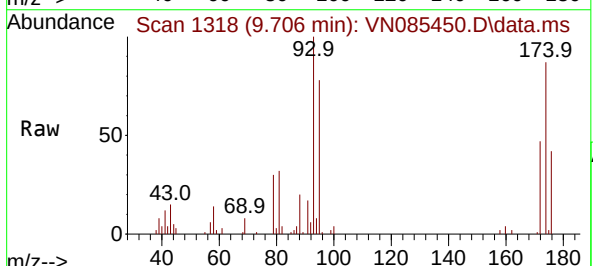
Tgt Ion: 93 Resp: 34976

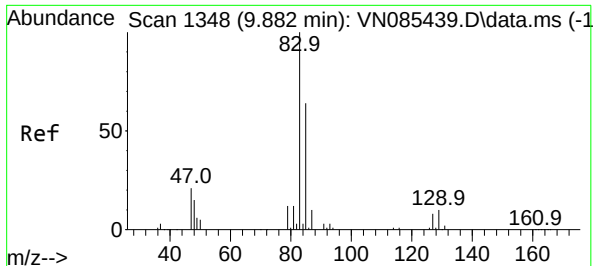
Ion Ratio Lower Upper

93 100

95 80.9 64.7 97.1

174 88.6 69.0 103.4

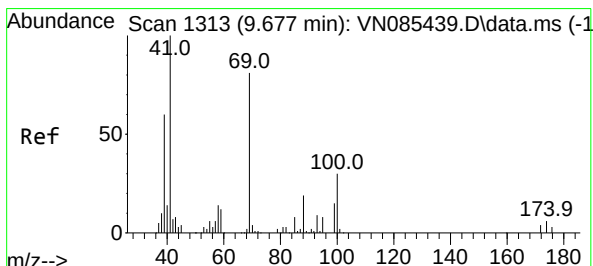
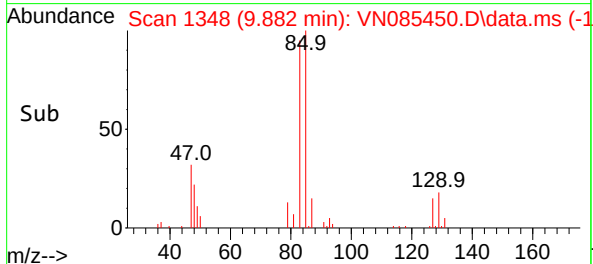
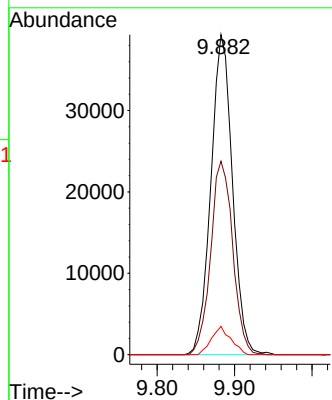
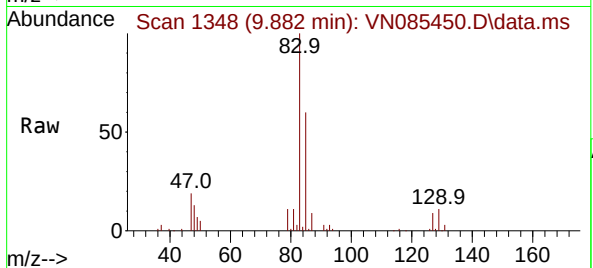




#47
Bromodichloromethane
Concen: 19.759 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. 0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

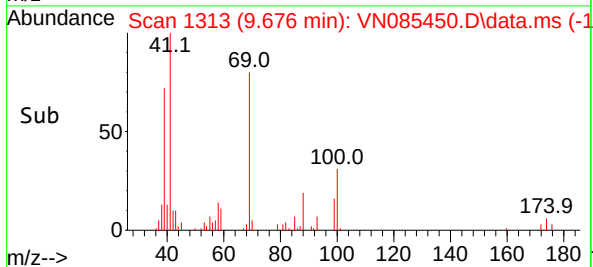
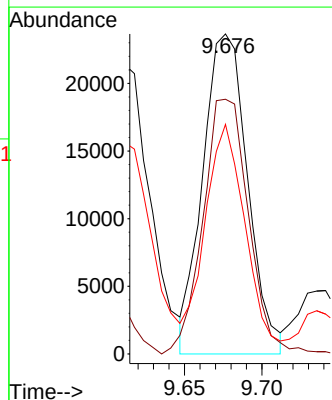
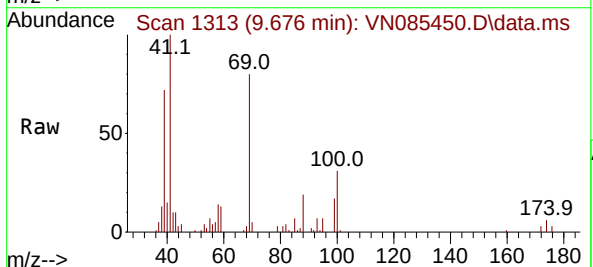
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

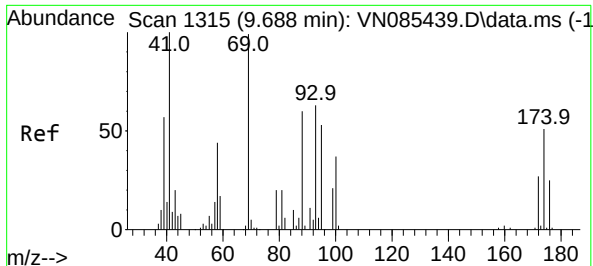
Tgt Ion: 83 Resp: 75979
Ion Ratio Lower Upper
83 100
85 60.4 51.2 76.8
127 8.8 6.5 9.7



#48
Methyl methacrylate
Concen: 19.143 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.001 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 41 Resp: 47488
Ion Ratio Lower Upper
41 100
69 81.2 64.7 97.1
39 65.3 49.0 73.6

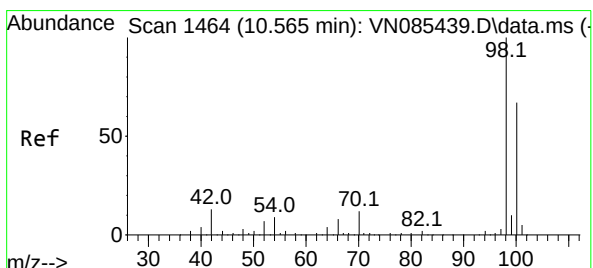
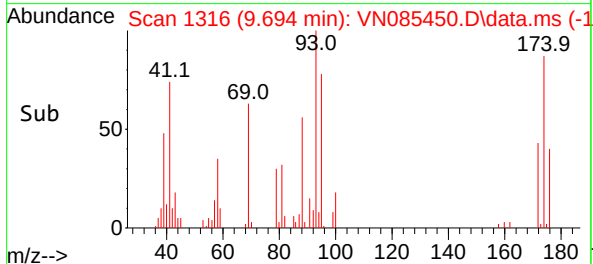
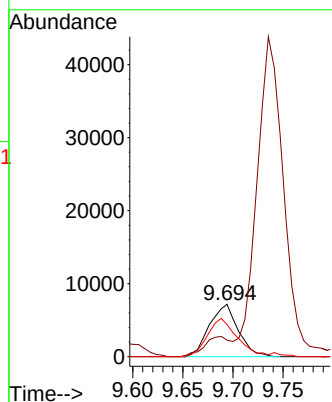
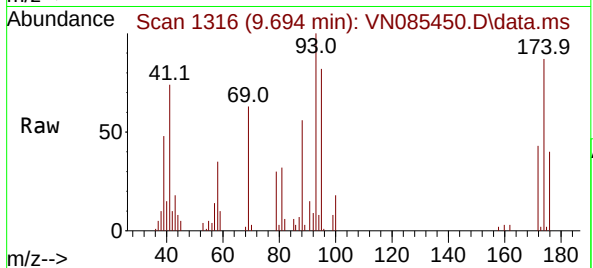




#49
1,4-Dioxane
Concen: 343.615 ug/l
RT: 9.694 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

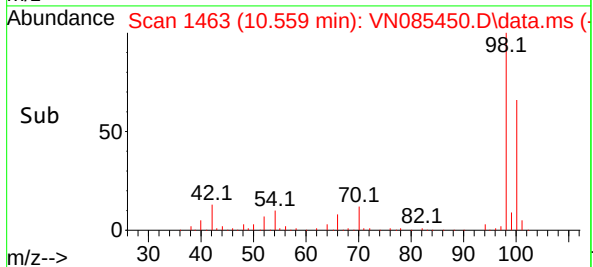
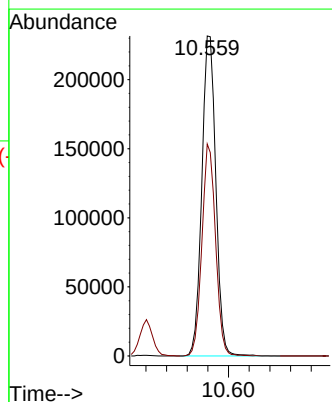
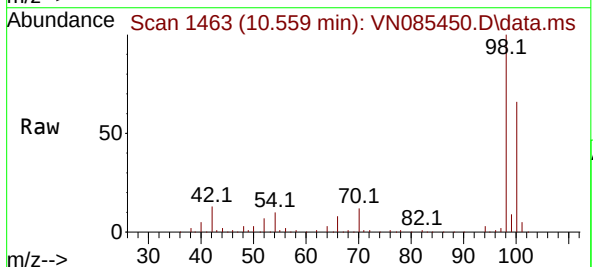
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

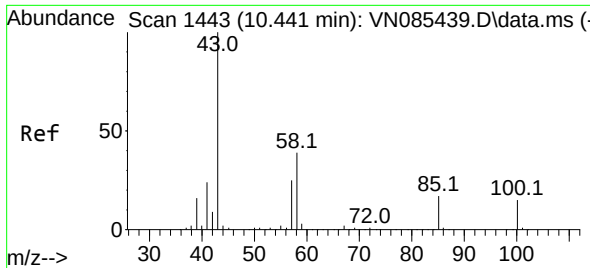
Tgt Ion: 88 Resp: 14354
Ion Ratio Lower Upper
88 100
43 36.4 26.6 39.8
58 77.8 59.5 89.3



#50
Toluene-d8
Concen: 50.376 ug/l
RT: 10.559 min Scan# 1463
Delta R.T. -0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 98 Resp: 434650
Ion Ratio Lower Upper
98 100
100 64.6 52.2 78.4

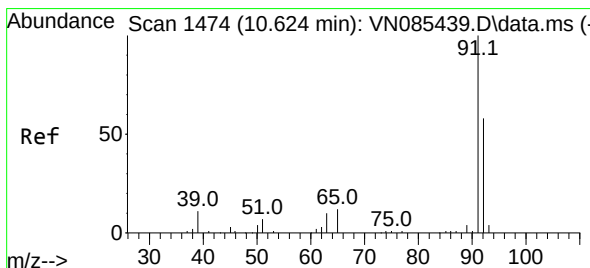
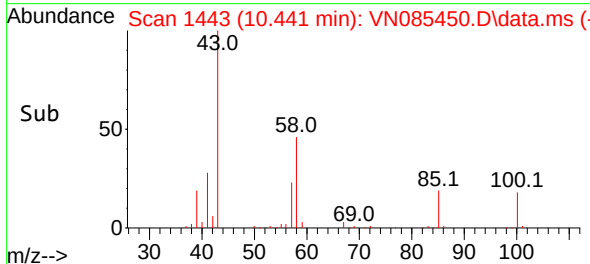
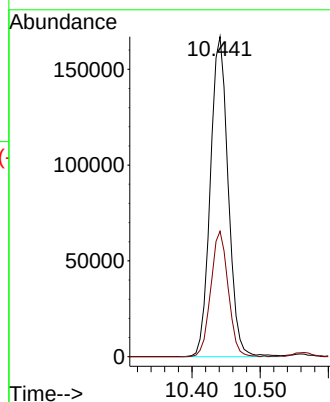
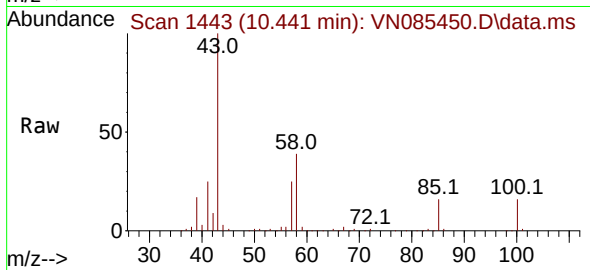




#51
4-Methyl-2-Pentanone
Concen: 95.328 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

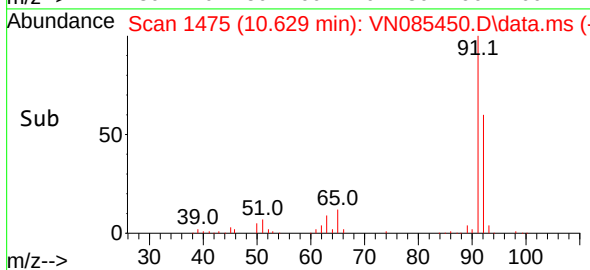
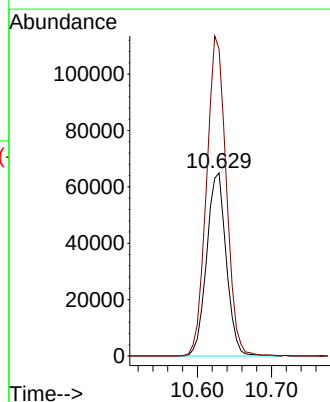
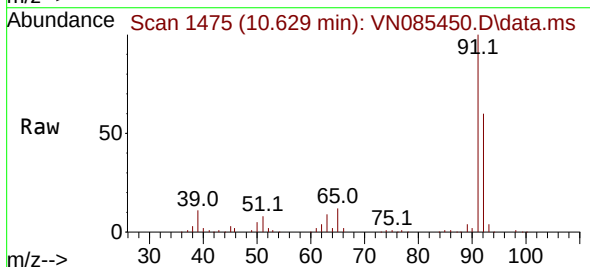
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

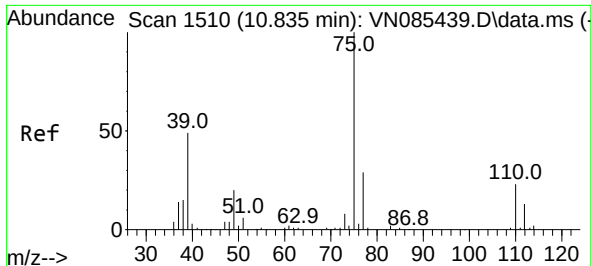
Tgt Ion: 43 Resp: 304924
Ion Ratio Lower Upper
43 100
58 38.1 30.5 45.7



#52
Toluene
Concen: 20.053 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 92 Resp: 118985
Ion Ratio Lower Upper
92 100
91 176.2 139.2 208.8

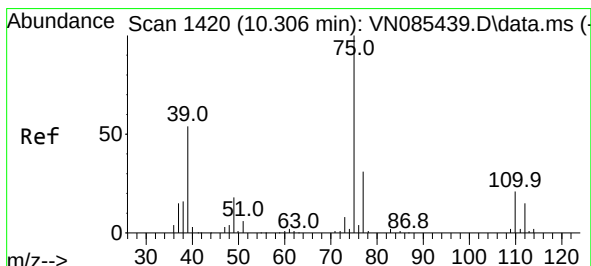
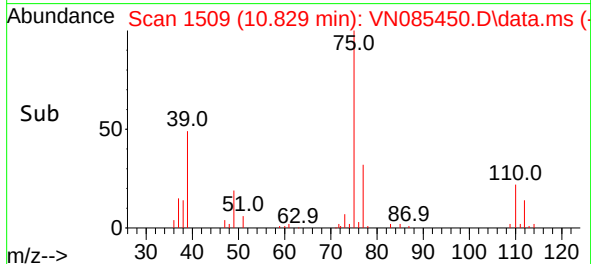
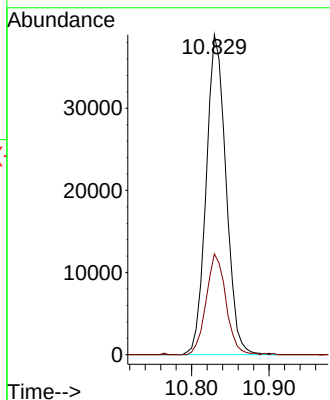
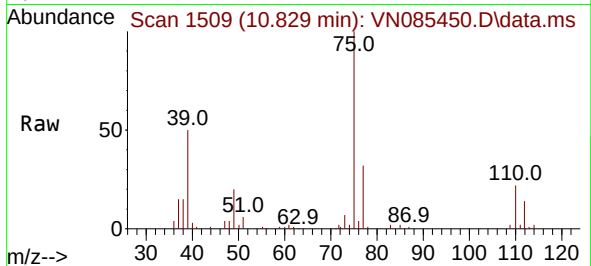




#53
 t-1,3-Dichloropropene
 Concen: 19.044 ug/l
 RT: 10.829 min Scan# 1509
 Delta R.T. -0.006 min
 Lab File: VN085450.D
 Acq: 15 Jan 2025 10:29

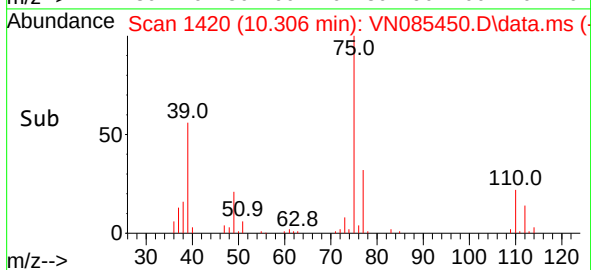
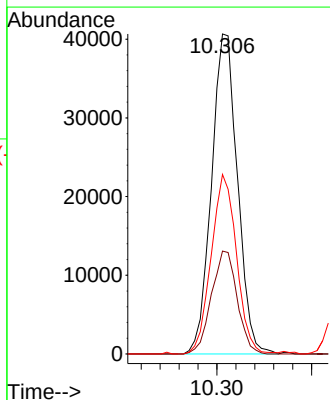
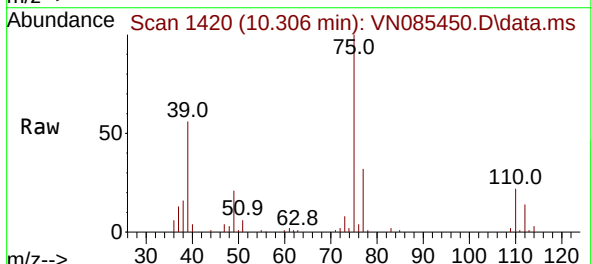
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBS01

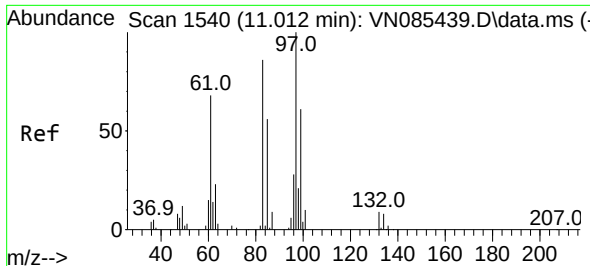
Tgt Ion: 75 Resp: 69201
 Ion Ratio Lower Upper
 75 100
 77 31.5 23.5 35.3



#54
 cis-1,3-Dichloropropene
 Concen: 19.958 ug/l
 RT: 10.306 min Scan# 1420
 Delta R.T. -0.000 min
 Lab File: VN085450.D
 Acq: 15 Jan 2025 10:29

Tgt Ion: 75 Resp: 77467
 Ion Ratio Lower Upper
 75 100
 77 32.2 25.0 37.4
 39 56.1 43.1 64.7

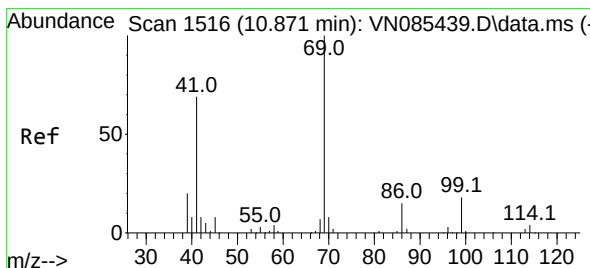
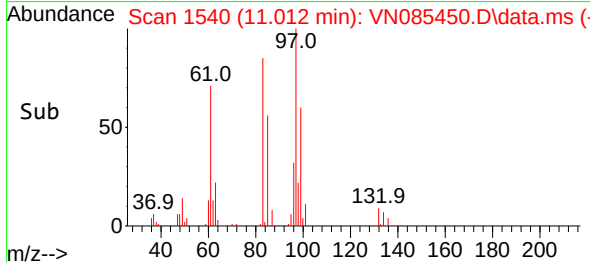
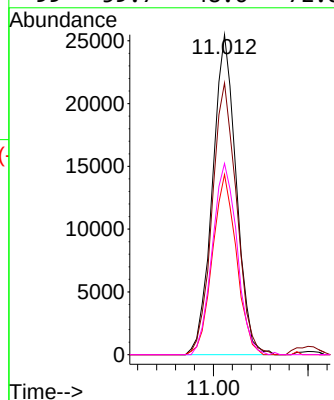
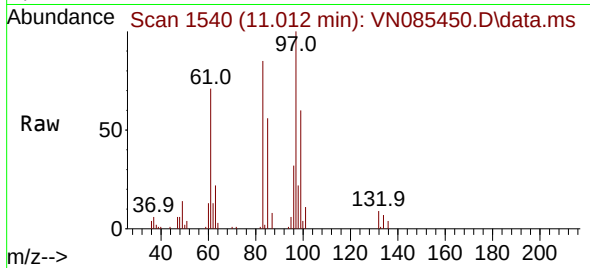




#55
1,1,2-Trichloroethane
Concen: 18.906 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

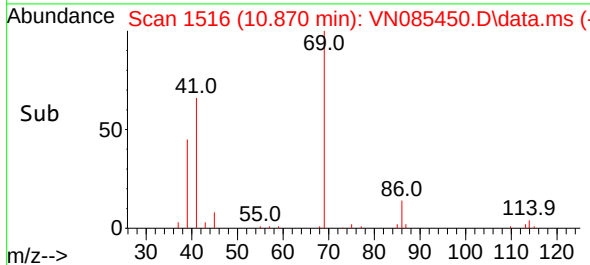
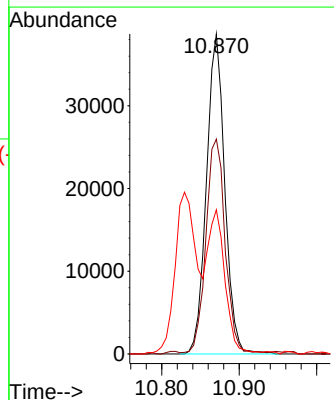
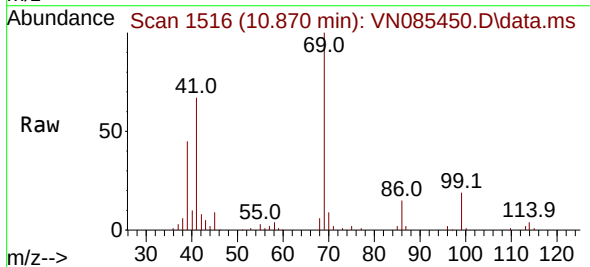
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

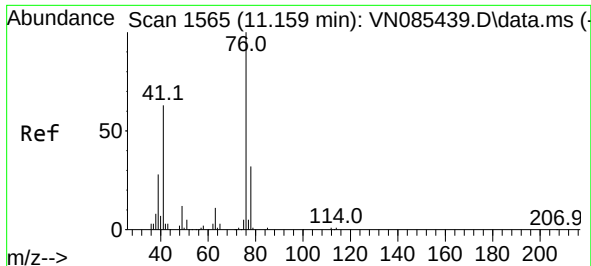
Tgt Ion: 97	Resp: 44394
Ion Ratio	Lower Upper
97 100	
83 84.9	69.0 103.6
85 56.3	44.6 66.8
99 59.7	48.6 72.8



#56
Ethyl methacrylate
Concen: 17.379 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.001 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 69	Resp: 63560		
Ion Ratio	Lower	Upper	
69 100			
41 69.4	54.6	82.0	
39 41.4	32.4	48.6	

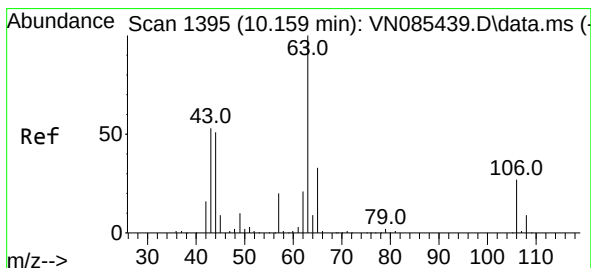
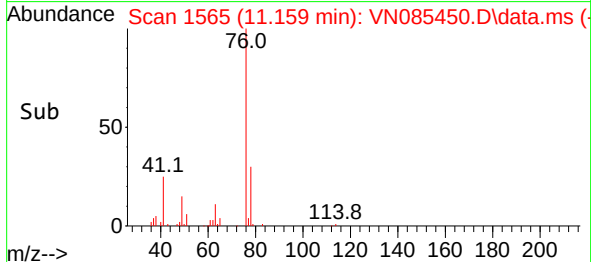
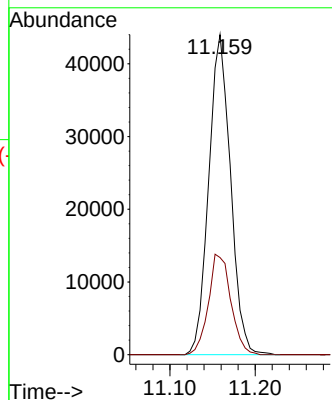
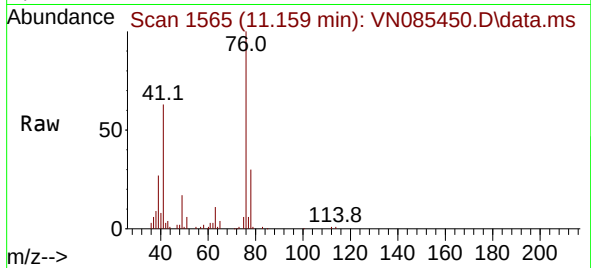




#57
1,3-Dichloropropane
Concen: 19.136 ug/l
RT: 11.159 min Scan# 111
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

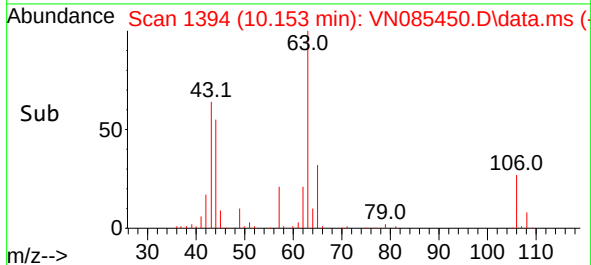
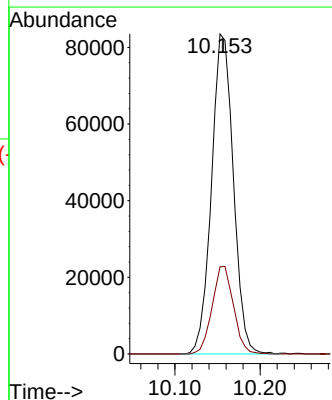
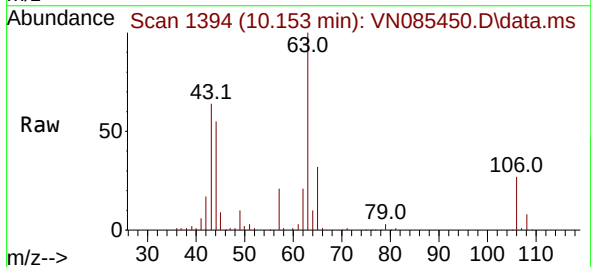
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

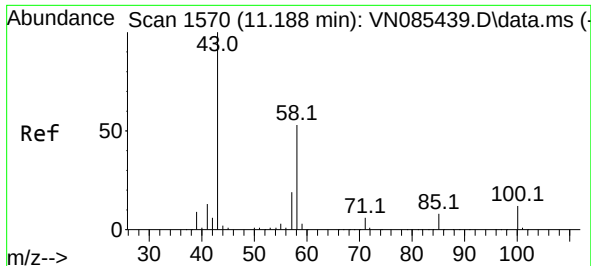
Tgt Ion: 76 Resp: 78133
Ion Ratio Lower Upper
76 100
78 32.3 25.6 38.4



#58
2-Chloroethyl Vinyl ether
Concen: 99.810 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 63 Resp: 148732
Ion Ratio Lower Upper
63 100
106 26.7 21.6 32.4

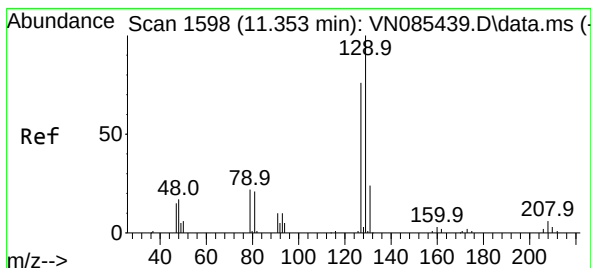
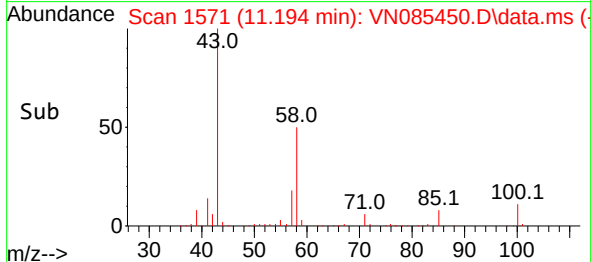
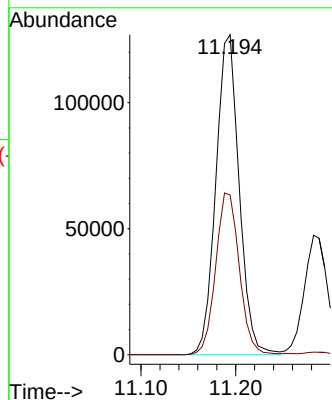
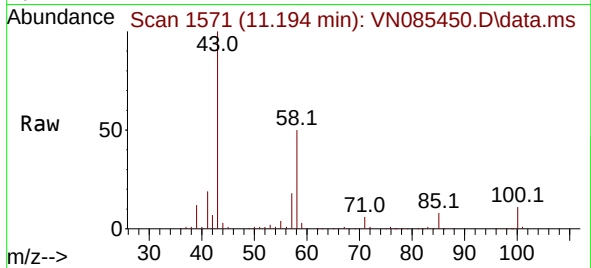




#59
2-Hexanone
Concen: 96.472 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

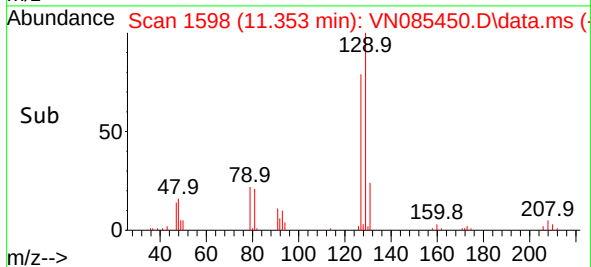
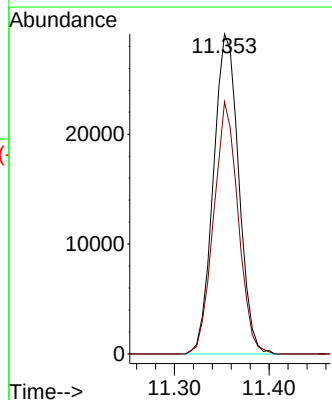
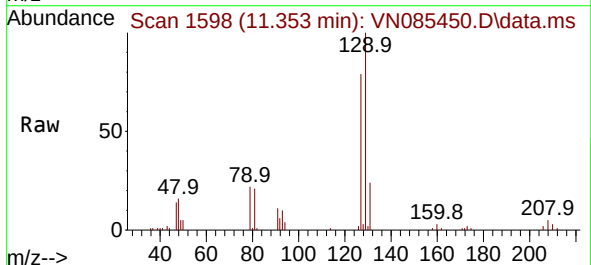
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

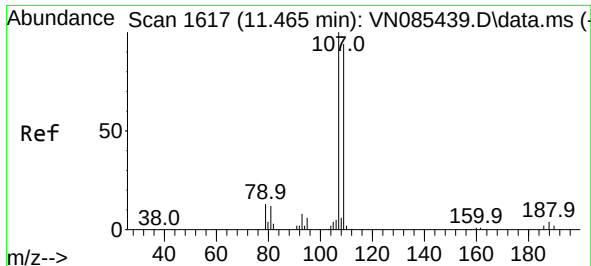
Tgt Ion: 43 Resp: 217128
Ion Ratio Lower Upper
43 100
58 51.2 26.2 78.6



#60
Dibromochloromethane
Concen: 19.097 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:129 Resp: 54139
Ion Ratio Lower Upper
129 100
127 76.2 38.6 115.8

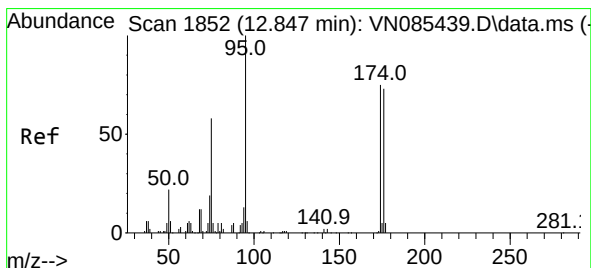
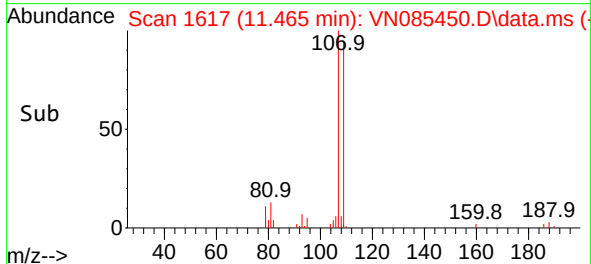
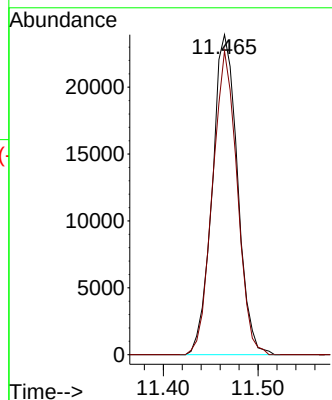
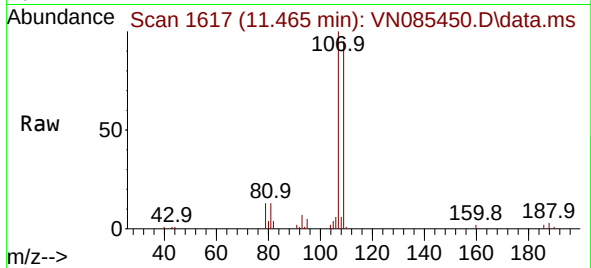




#61
1,2-Dibromoethane
Concen: 18.932 ug/l
RT: 11.465 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

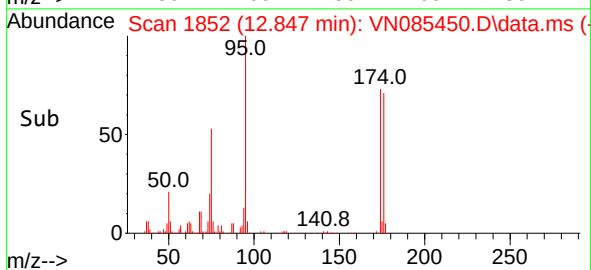
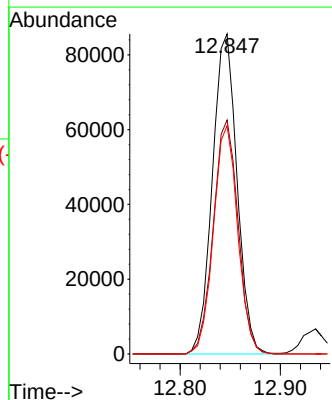
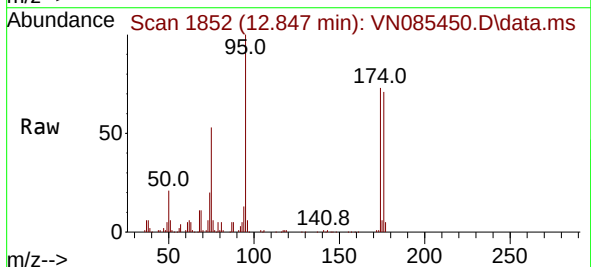
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

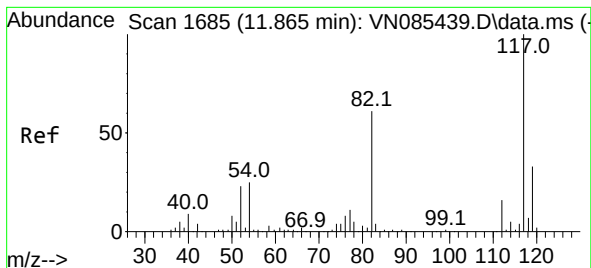
Tgt Ion:107 Resp: 44253
Ion Ratio Lower Upper
107 100
109 92.6 75.9 113.9



#62
4-Bromofluorobenzene
Concen: 49.491 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 95 Resp: 146069
Ion Ratio Lower Upper
95 100
174 73.5 0.0 145.0
176 70.2 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

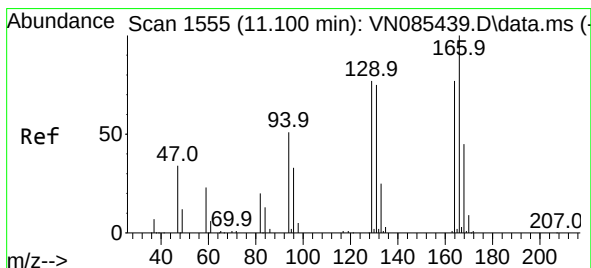
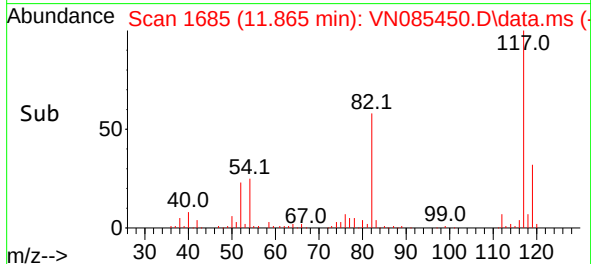
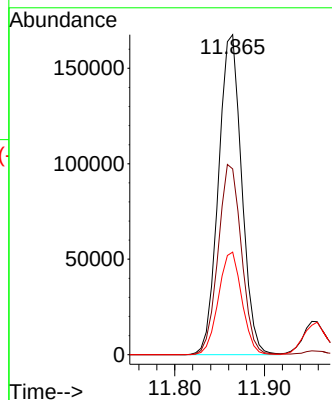
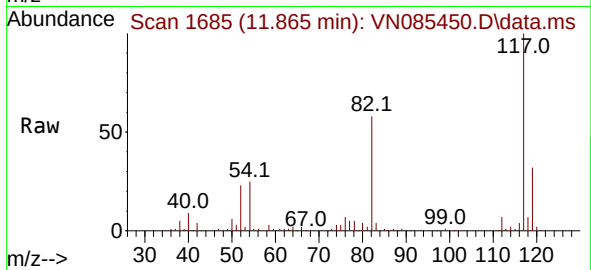
Tgt Ion:117 Resp: 301633

Ion Ratio Lower Upper

117 100

82 58.1 48.6 72.8

119 32.1 26.6 39.8



#64

Tetrachloroethene

Concen: 20.068 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Tgt Ion:164 Resp: 41267

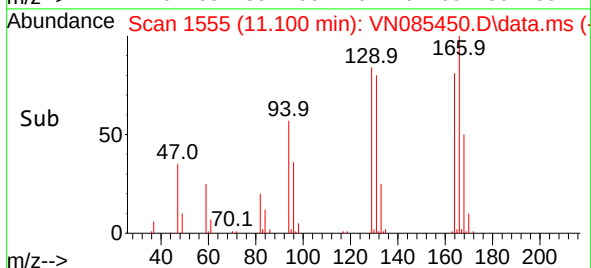
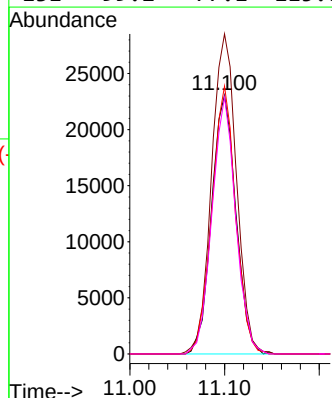
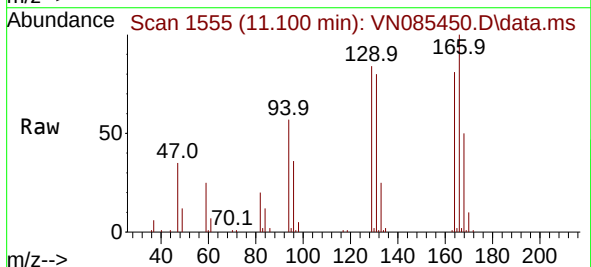
Ion Ratio Lower Upper

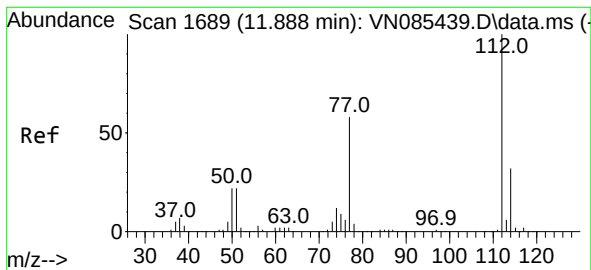
164 100

166 123.7 103.4 155.2

129 103.5 79.2 118.8

131 99.2 77.1 115.7





#65

Chlorobenzene

Concen: 19.304 ug/l

RT: 11.888 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

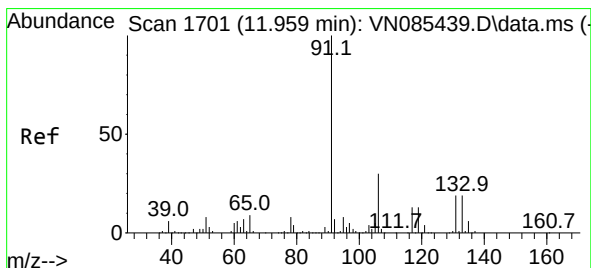
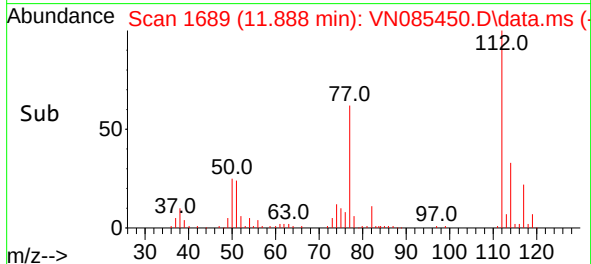
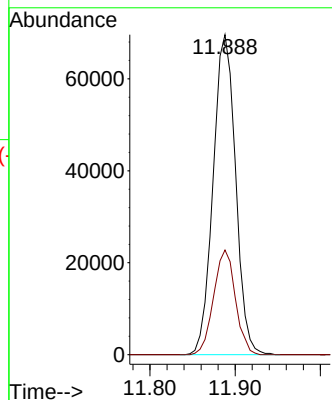
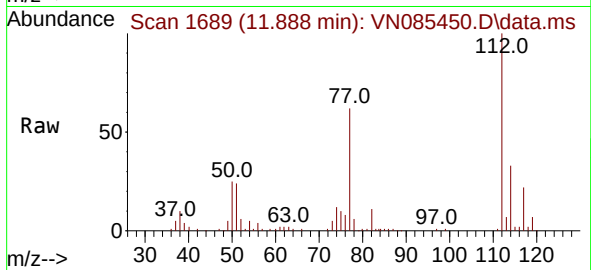
VN0115WBS01

Tgt Ion:112 Resp: 127557

Ion Ratio Lower Upper

112 100

114 32.7 25.3 37.9



#66

1,1,1,2-Tetrachloroethane

Concen: 18.821 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

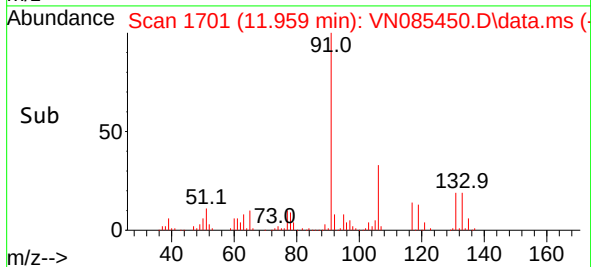
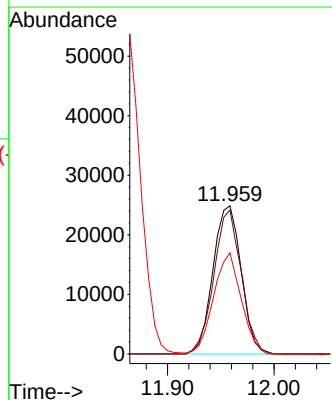
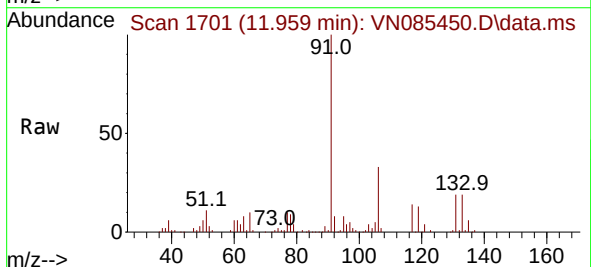
Tgt Ion:131 Resp: 45645

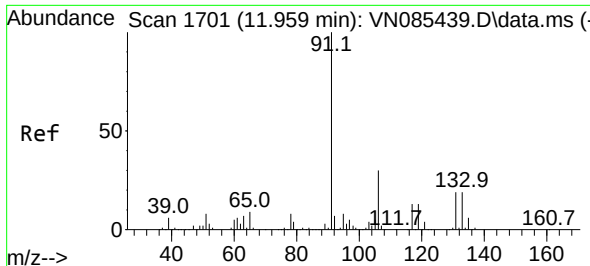
Ion Ratio Lower Upper

131 100

133 94.9 47.4 142.3

119 66.9 33.1 99.5

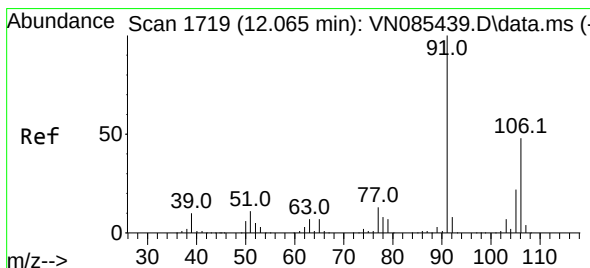
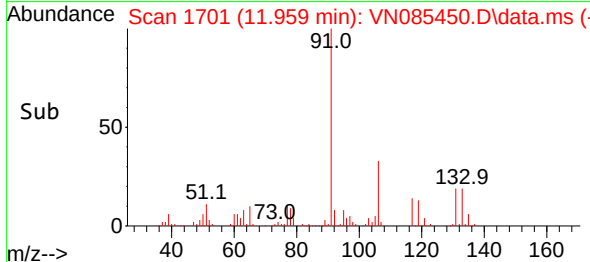
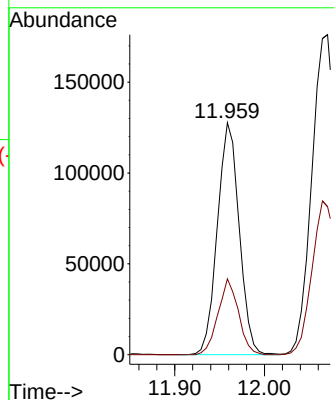
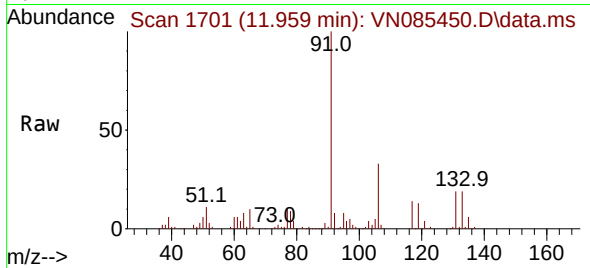




#67
Ethyl Benzene
Concen: 20.019 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

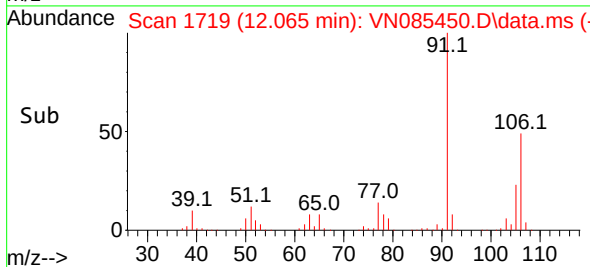
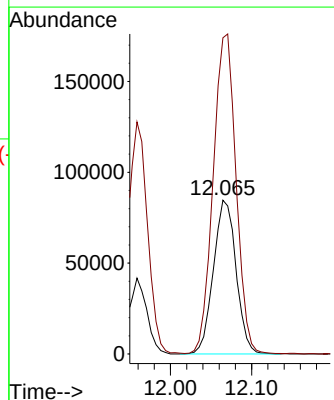
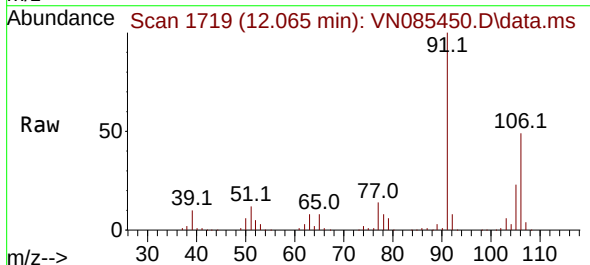
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

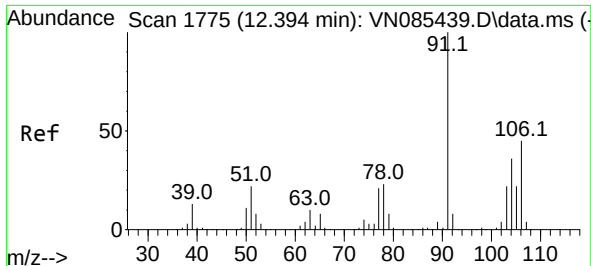
Tgt Ion: 91 Resp: 215448
Ion Ratio Lower Upper
91 100
106 32.7 23.8 35.8



#68
m/p-Xylenes
Concen: 41.314 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:106 Resp: 164329
Ion Ratio Lower Upper
106 100
91 209.5 167.7 251.5

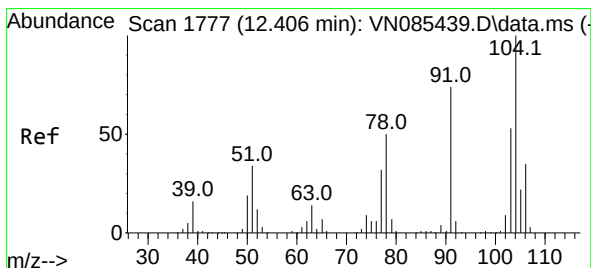
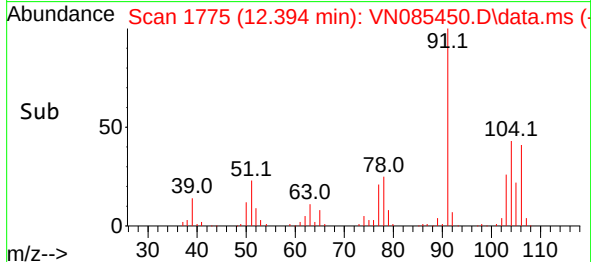
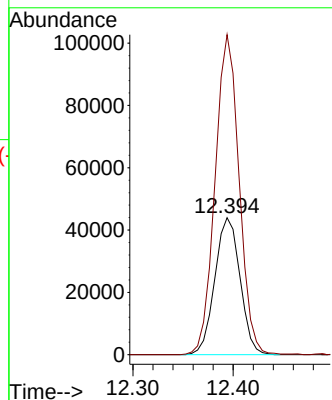
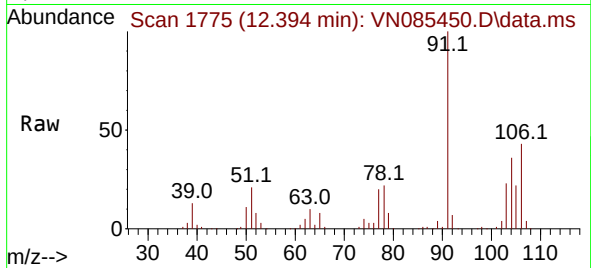




#69
o-Xylene
Concen: 20.184 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

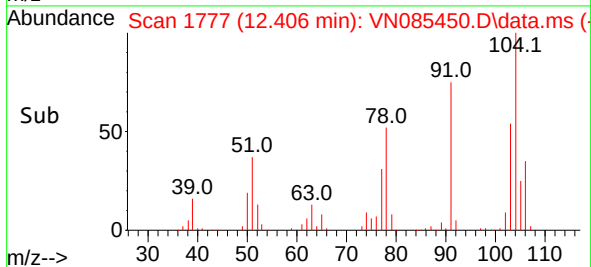
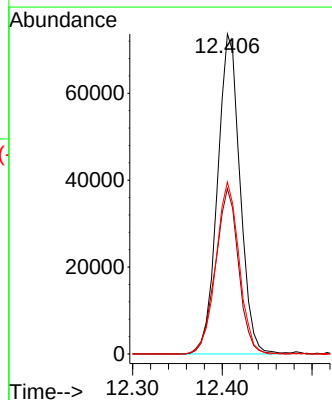
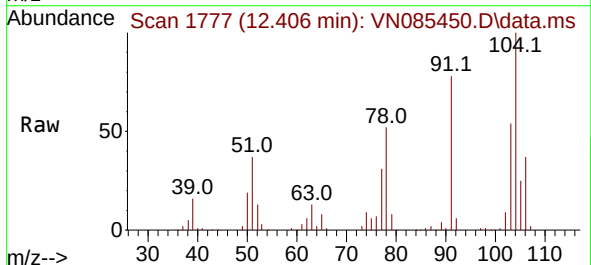
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

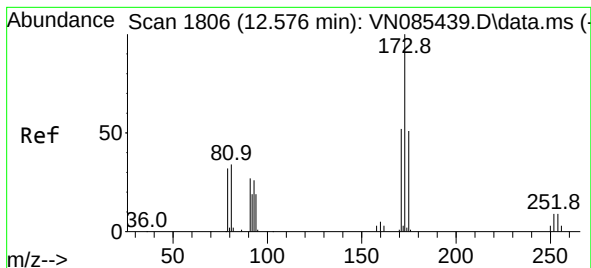
Tgt Ion:106 Resp: 76723
Ion Ratio Lower Upper
106 100
91 223.5 110.4 331.2



#70
Styrene
Concen: 20.358 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:104 Resp: 128074
Ion Ratio Lower Upper
104 100
78 53.2 42.5 63.7
103 55.3 43.8 65.8





#71

Bromoform

Concen: 19.837 ug/l

RT: 12.570 min Scan# 1805

Delta R.T. -0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

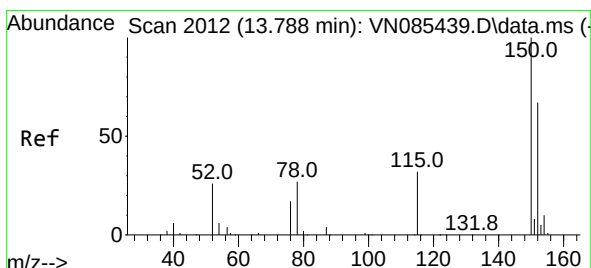
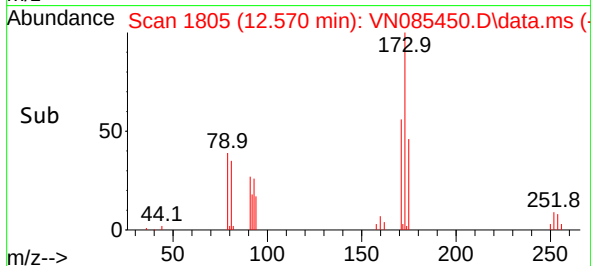
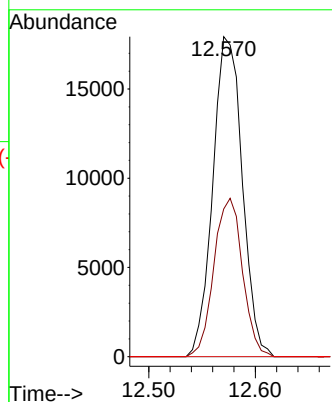
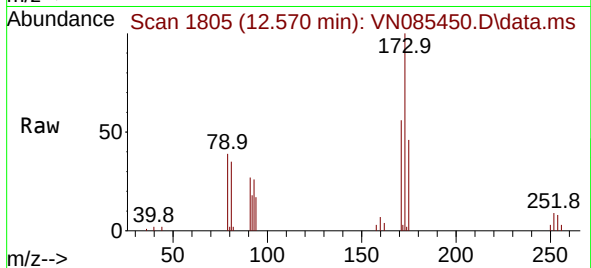
Tgt Ion:173 Resp: 34422

Ion Ratio Lower Upper

173 100

175 48.1 24.4 73.2

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

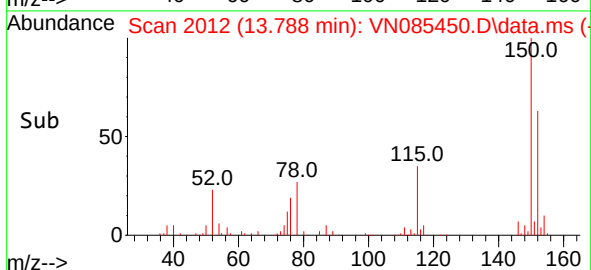
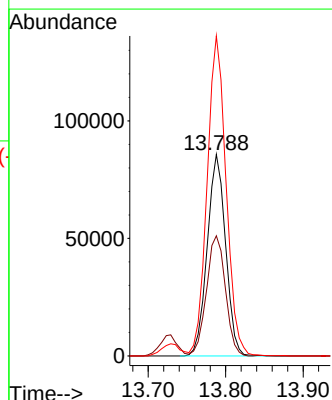
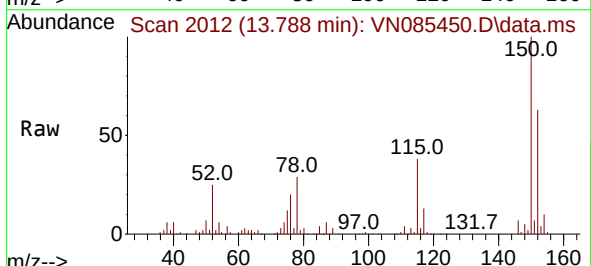
Tgt Ion:152 Resp: 141189

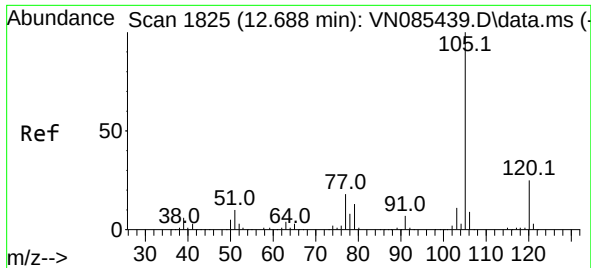
Ion Ratio Lower Upper

152 100

115 61.5 31.1 93.3

150 163.3 0.0 343.6

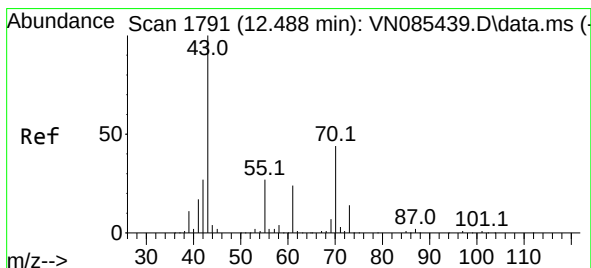
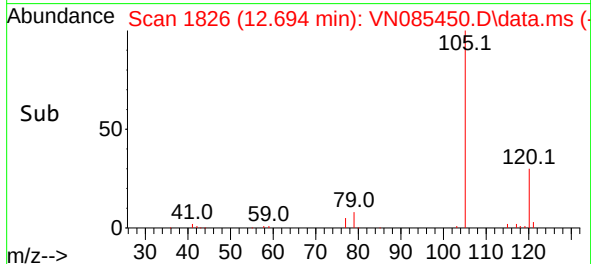
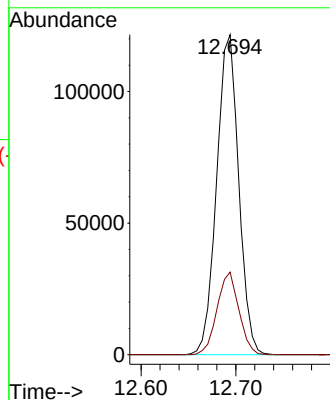
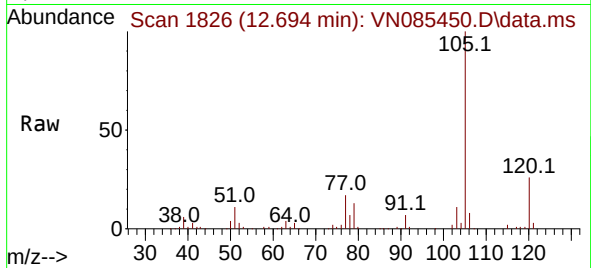




#73
Isopropylbenzene
Concen: 20.668 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

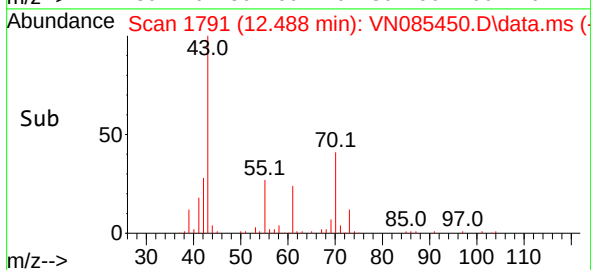
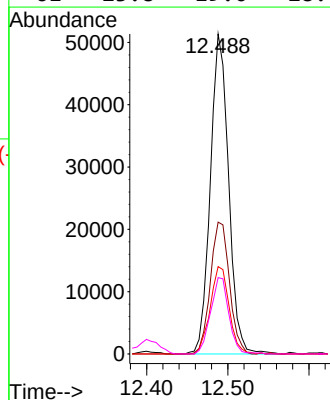
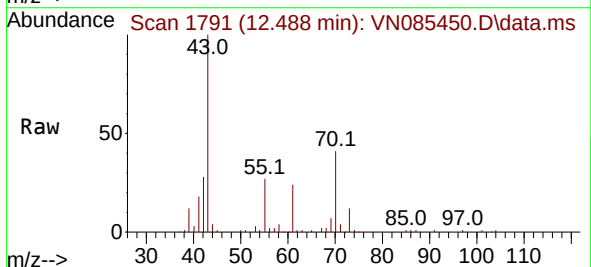
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

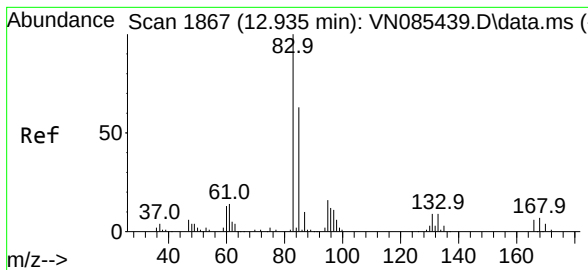
Tgt Ion:105 Resp: 196948
Ion Ratio Lower Upper
105 100
120 25.5 12.8 38.3



#74
N-ethyl acetate
Concen: 18.746 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 43 Resp: 80290
Ion Ratio Lower Upper
43 100
70 43.0 34.0 51.0
55 28.2 21.4 32.2
61 23.8 19.0 28.4

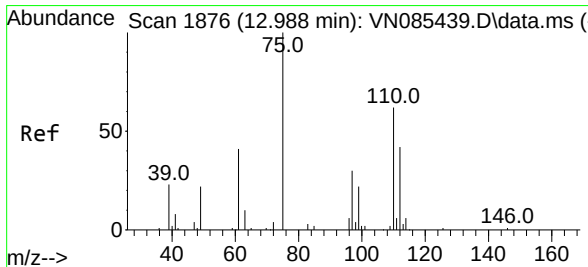
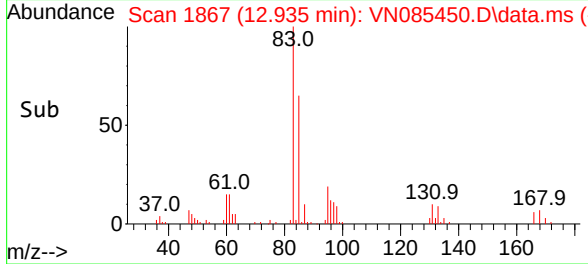
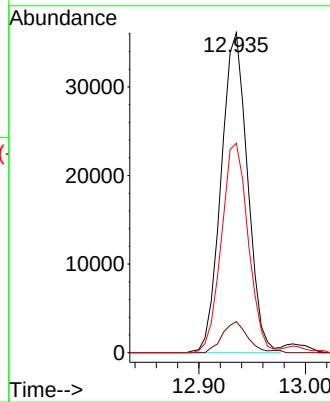
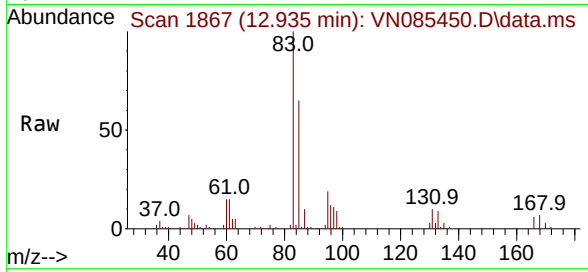




#75
 1,1,2,2-Tetrachloroethane
 Concen: 18.510 ug/l
 RT: 12.935 min Scan# 1867
 Delta R.T. -0.000 min
 Lab File: VN085450.D
 Acq: 15 Jan 2025 10:29

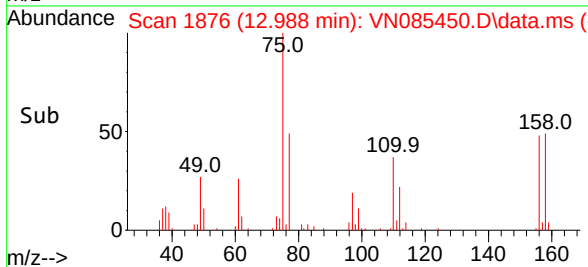
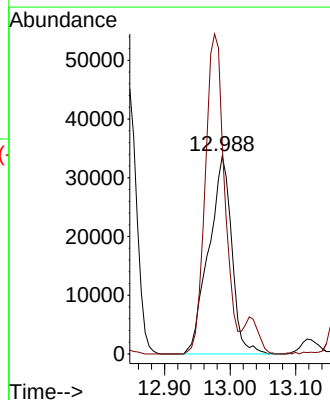
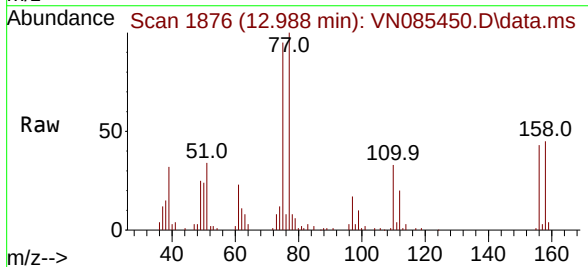
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBS01

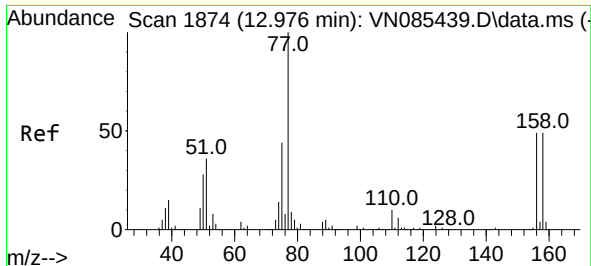
Tgt Ion: 83 Resp: 62306
 Ion Ratio Lower Upper
 83 100
 131 9.4 4.8 14.4
 85 66.2 32.2 96.6



#76
 1,2,3-Trichloropropane
 Concen: 28.604 ug/l
 RT: 12.988 min Scan# 1876
 Delta R.T. -0.000 min
 Lab File: VN085450.D
 Acq: 15 Jan 2025 10:29

Tgt Ion: 75 Resp: 82085
 Ion Ratio Lower Upper
 75 100
 77 136.8 109.7 329.2

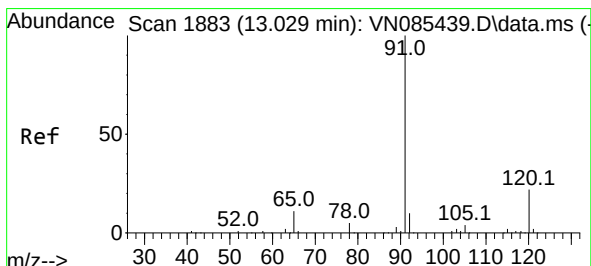
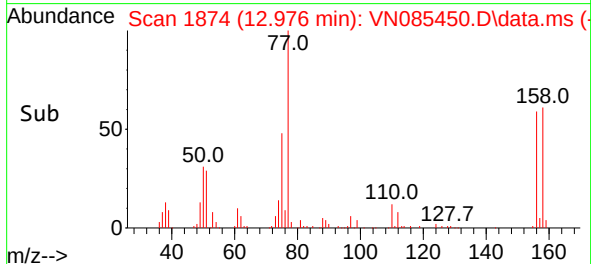
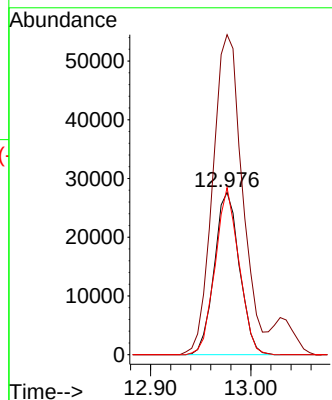
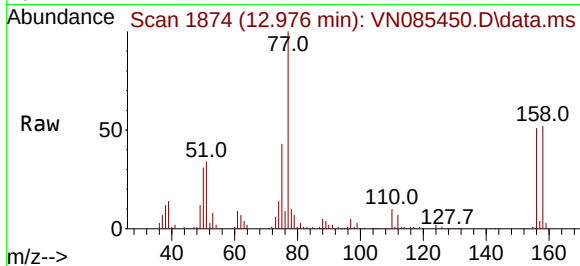




#77
Bromobenzene
Concen: 19.283 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

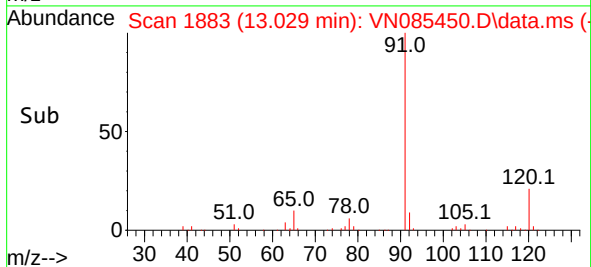
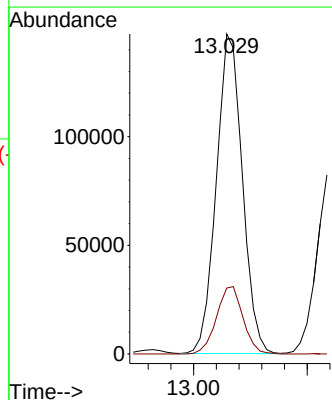
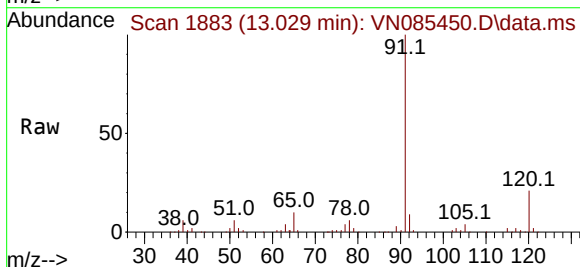
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

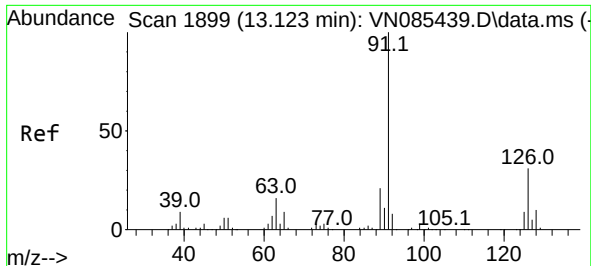
Tgt Ion:156 Resp: 48006
Ion Ratio Lower Upper
156 100
77 233.9 114.1 342.4
158 97.9 48.9 146.8



#78
n-propylbenzene
Concen: 20.759 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 91 Resp: 234178
Ion Ratio Lower Upper
91 100
120 21.4 10.9 32.6

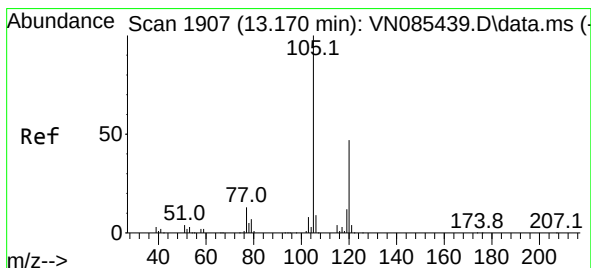
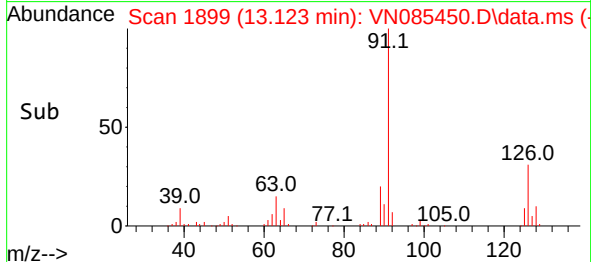
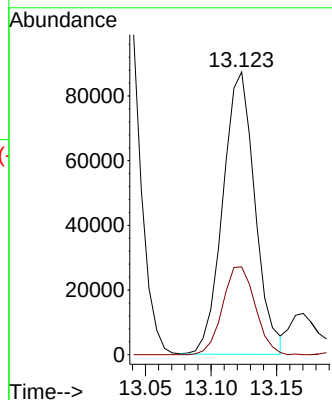
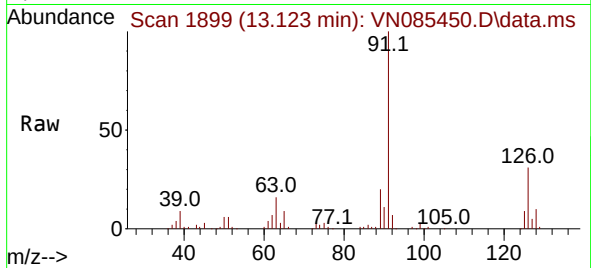




#79
2-Chlorotoluene
Concen: 20.351 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

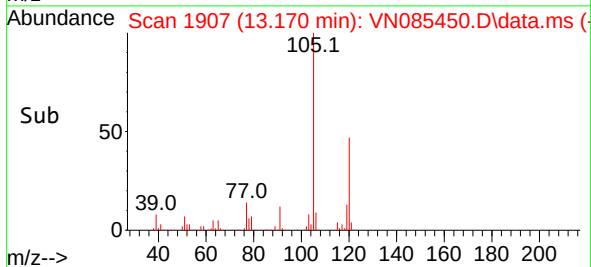
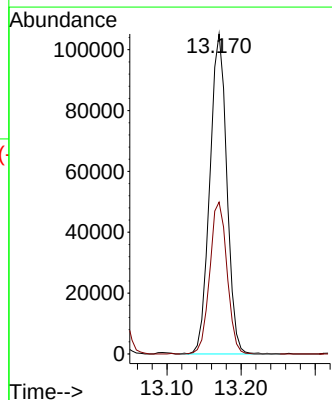
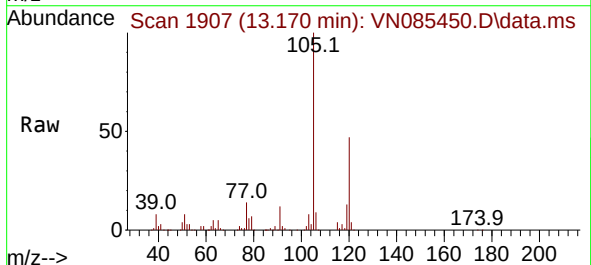
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

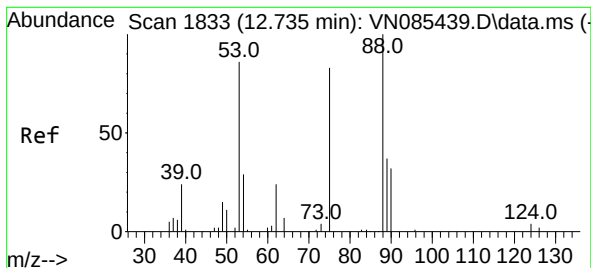
Tgt Ion: 91 Resp: 148584
Ion Ratio Lower Upper
91 100
126 31.7 15.7 47.1



#80
1,3,5-Trimethylbenzene
Concen: 21.282 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 105 Resp: 167516
Ion Ratio Lower Upper
105 100
120 48.1 23.9 71.7

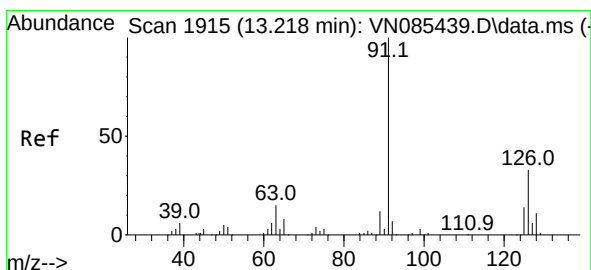
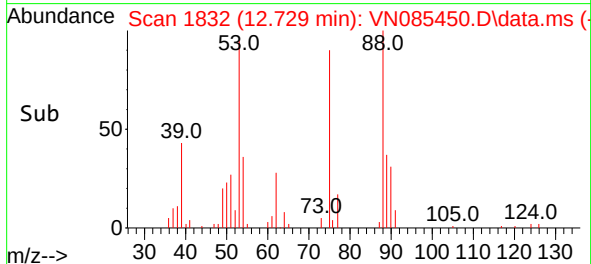
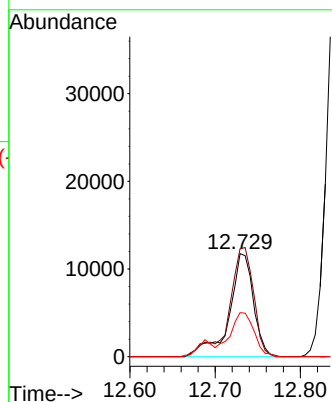
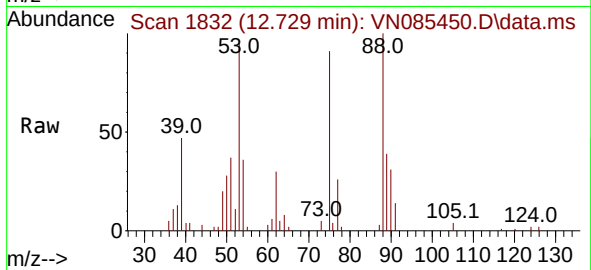




#81
trans-1,4-Dichloro-2-butene
Concen: 21.817 ug/l
RT: 12.729 min Scan# 1832
Delta R.T. -0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

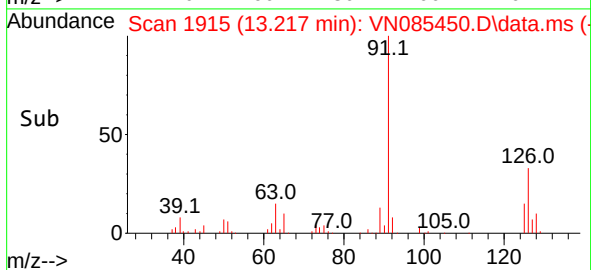
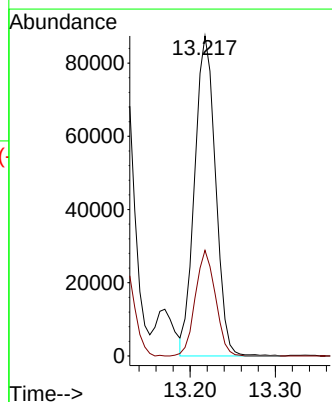
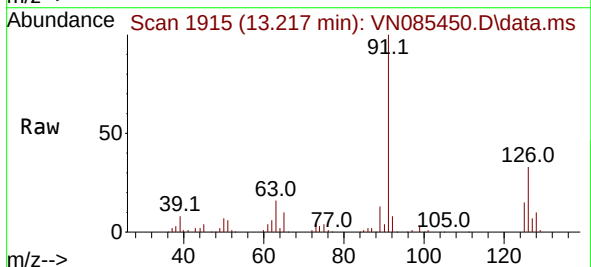
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

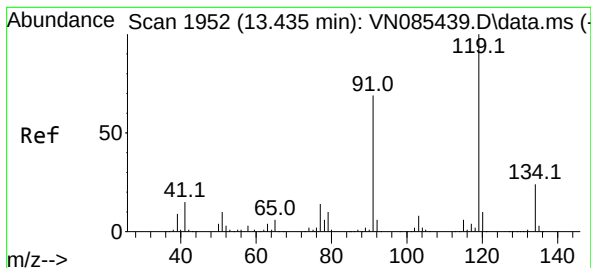
Tgt Ion: 75 Resp: 23140
Ion Ratio Lower Upper
75 100
53 108.7 95.6 143.4
89 42.6 37.0 55.6



#82
4-Chlorotoluene
Concen: 20.481 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 91 Resp: 148888
Ion Ratio Lower Upper
91 100
126 31.8 15.9 47.7





#83

tert-Butylbenzene

Concen: 20.748 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

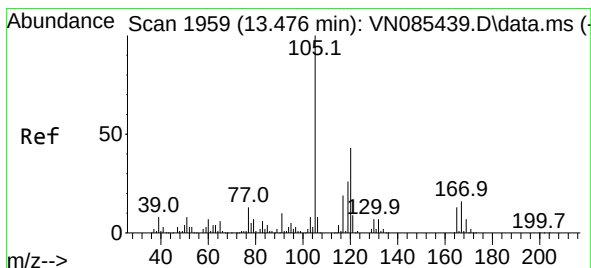
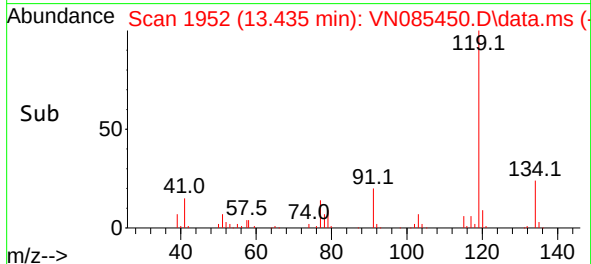
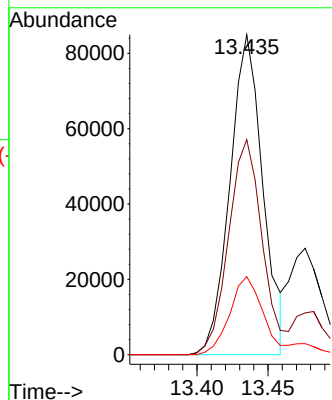
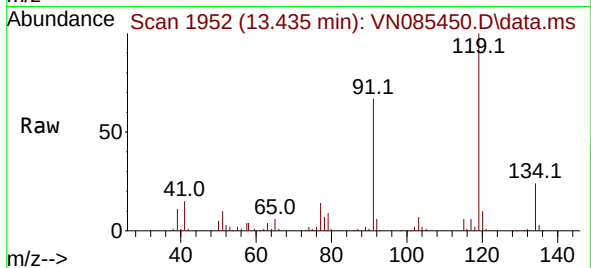
Tgt Ion:119 Resp: 137144

Ion Ratio Lower Upper

119 100

91 69.5 35.1 105.3

134 24.7 12.0 36.1



#84

1,2,4-Trimethylbenzene

Concen: 21.493 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN085450.D

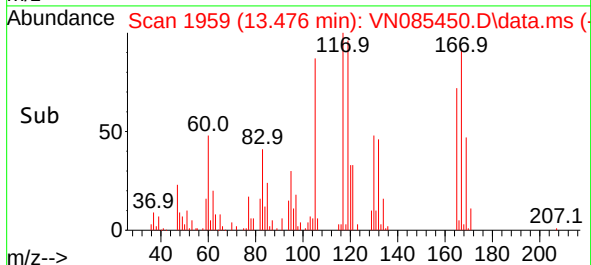
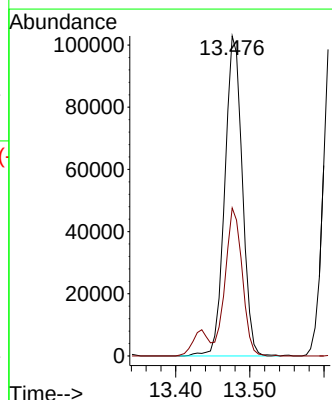
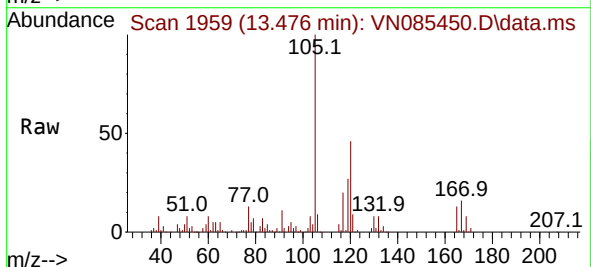
Acq: 15 Jan 2025 10:29

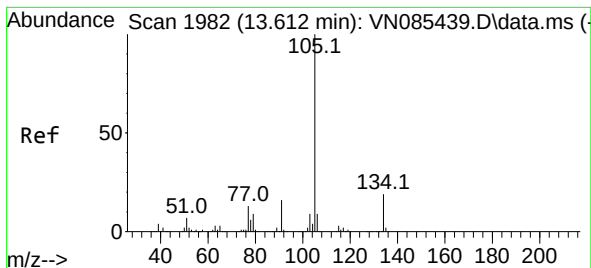
Tgt Ion:105 Resp: 168611

Ion Ratio Lower Upper

105 100

120 45.1 21.6 65.0





#85

sec-Butylbenzene

Concen: 21.140 ug/l

RT: 13.611 min Scan# 1982

Delta R.T. -0.001 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

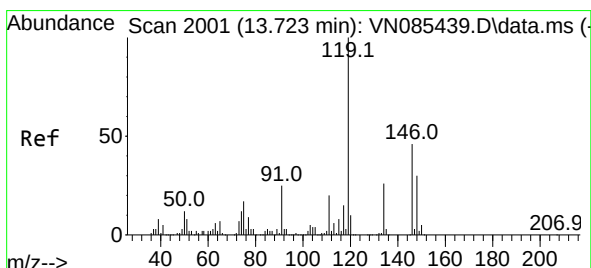
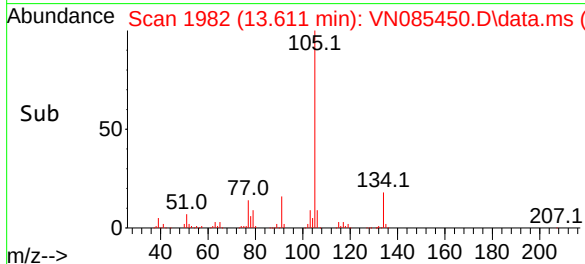
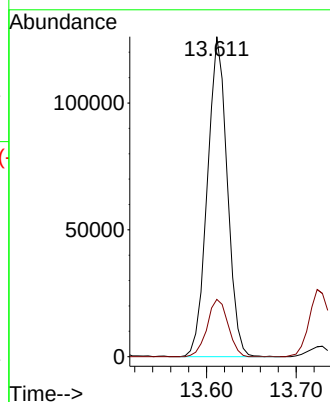
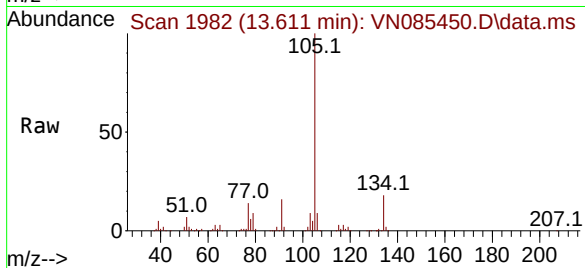
VN0115WBS01

Tgt Ion:105 Resp: 193667

Ion Ratio Lower Upper

105 100

134 18.8 9.7 28.9



#86

p-Isopropyltoluene

Concen: 20.730 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

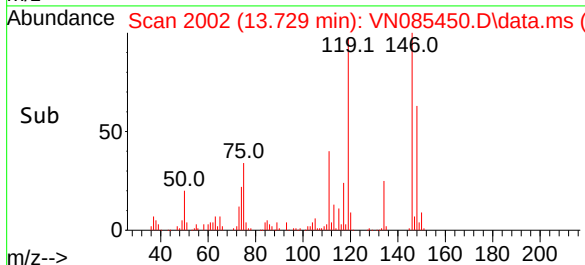
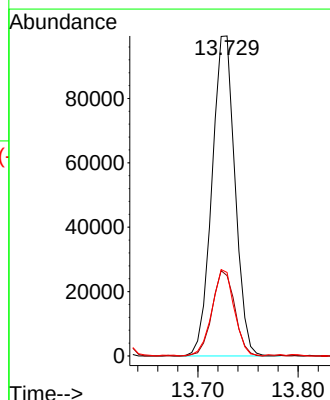
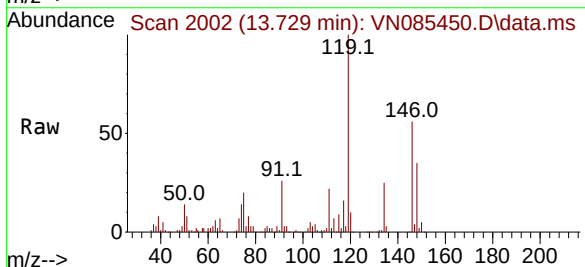
Tgt Ion:119 Resp: 158593

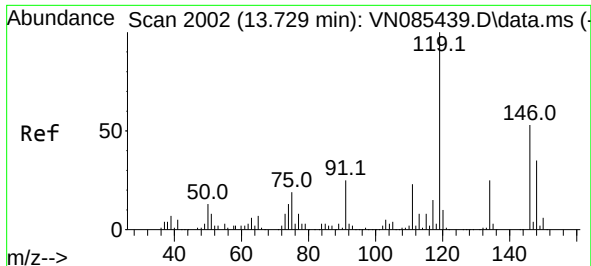
Ion Ratio Lower Upper

119 100

134 26.1 12.7 38.0

91 26.2 12.7 38.1

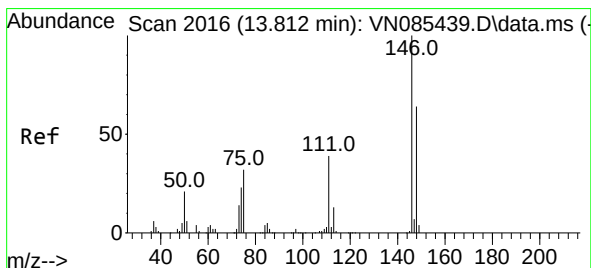
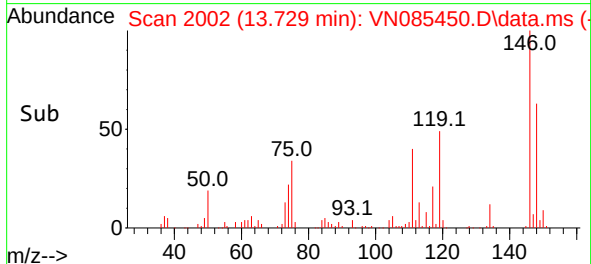
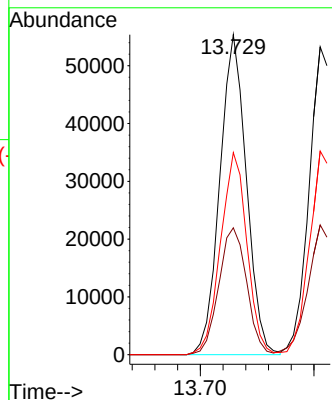
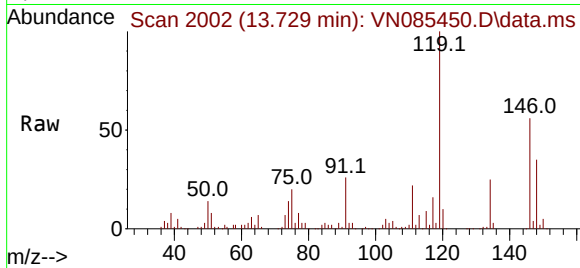




#87
 1,3-Dichlorobenzene
 Concen: 19.629 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.000 min
 Lab File: VN085450.D
 Acq: 15 Jan 2025 10:29

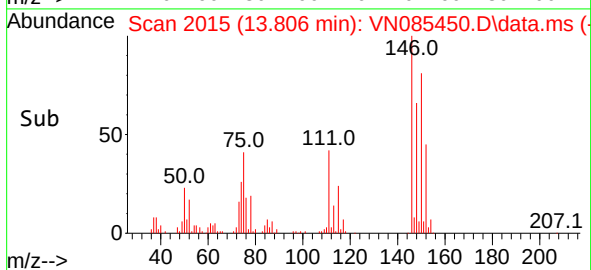
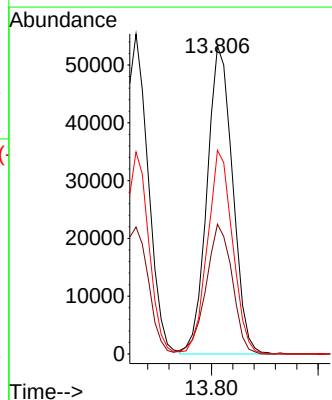
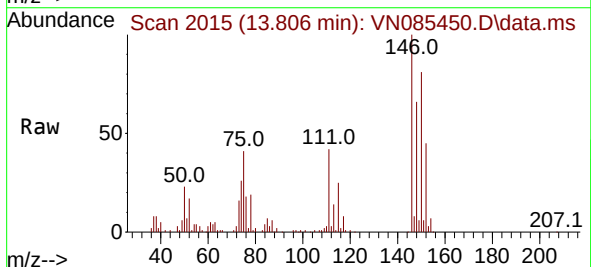
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBS01

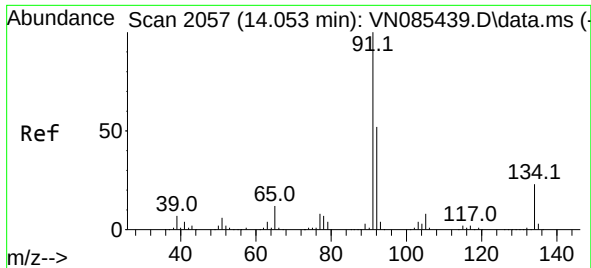
Tgt Ion:146 Resp: 89998
 Ion Ratio Lower Upper
 146 100
 111 41.6 21.4 64.3
 148 62.7 32.3 96.9



#88
 1,4-Dichlorobenzene
 Concen: 18.721 ug/l
 RT: 13.806 min Scan# 2015
 Delta R.T. -0.006 min
 Lab File: VN085450.D
 Acq: 15 Jan 2025 10:29

Tgt Ion:146 Resp: 88968
 Ion Ratio Lower Upper
 146 100
 111 43.2 21.3 63.7
 148 65.2 32.4 97.0

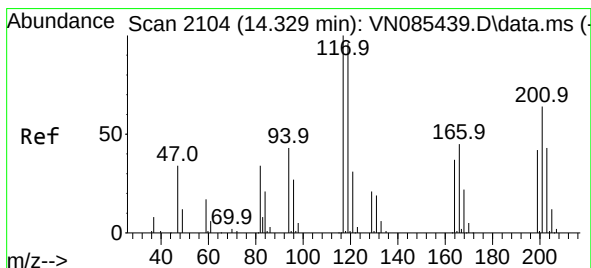
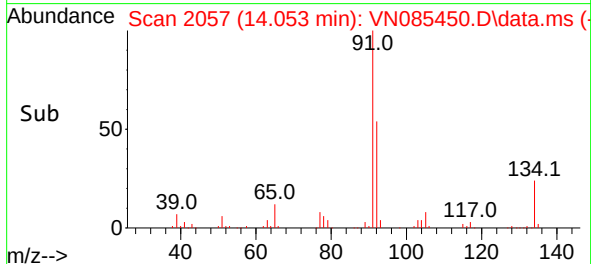
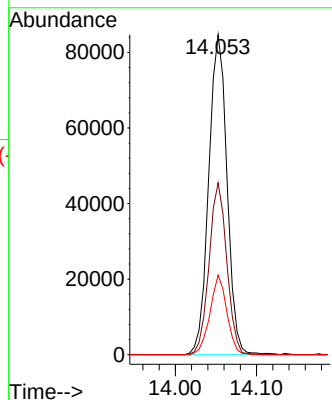
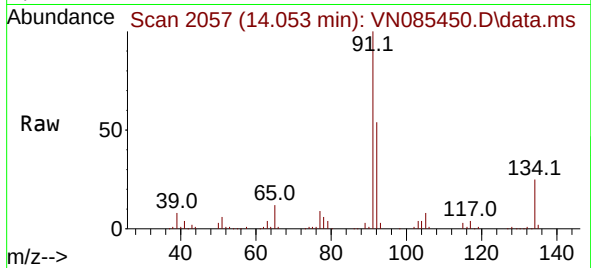




#89
n-Butylbenzene
Concen: 20.147 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

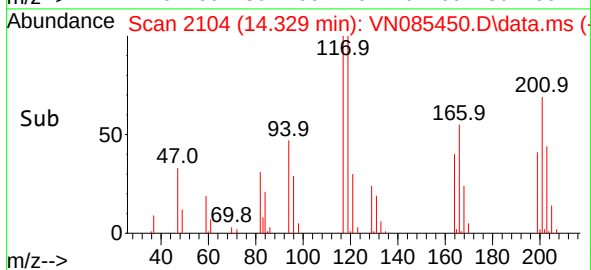
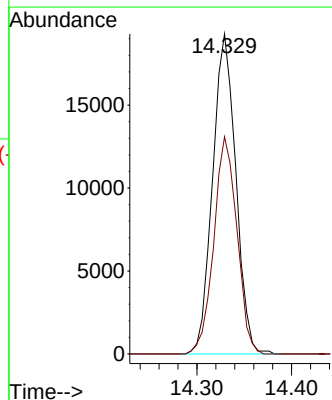
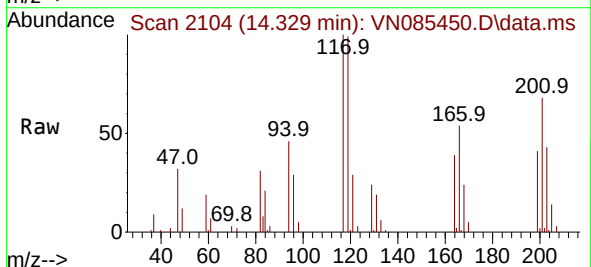
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

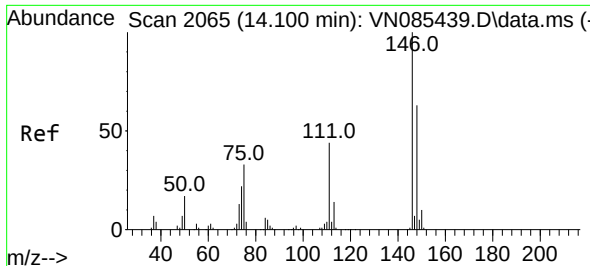
Tgt Ion: 91 Resp: 132410
Ion Ratio Lower Upper
91 100
92 52.0 25.8 77.3
134 22.9 11.7 35.1



#90
Hexachloroethane
Concen: 18.850 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 117 Resp: 32875
Ion Ratio Lower Upper
117 100
201 67.6 33.7 101.0

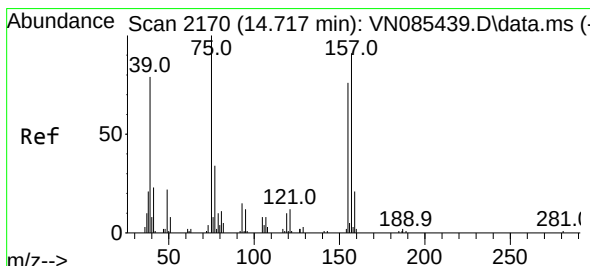
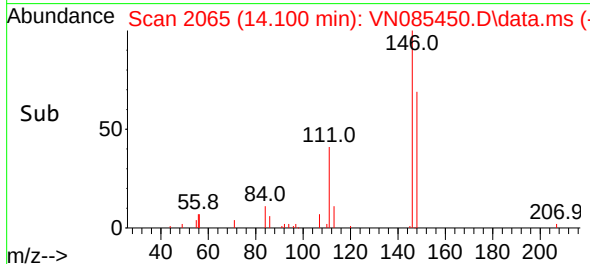
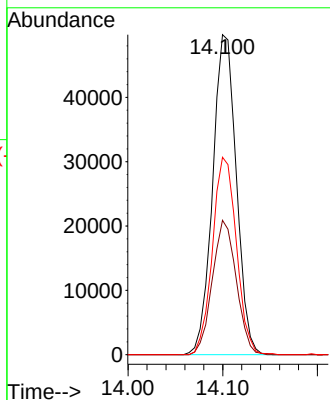
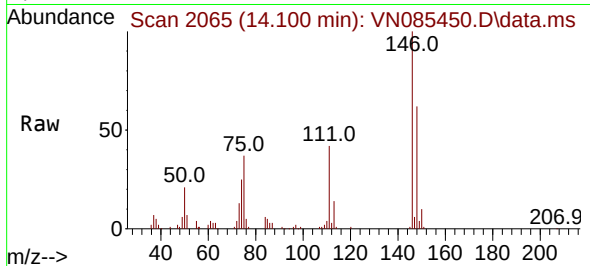




#91
 1,2-Dichlorobenzene
 Concen: 18.933 ug/l
 RT: 14.100 min Scan# 2065
 Delta R.T. -0.000 min
 Lab File: VN085450.D
 Acq: 15 Jan 2025 10:29

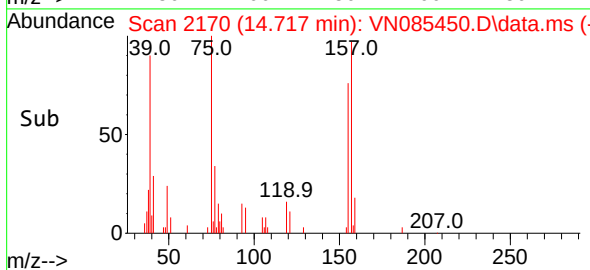
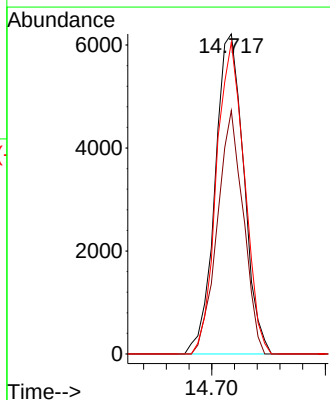
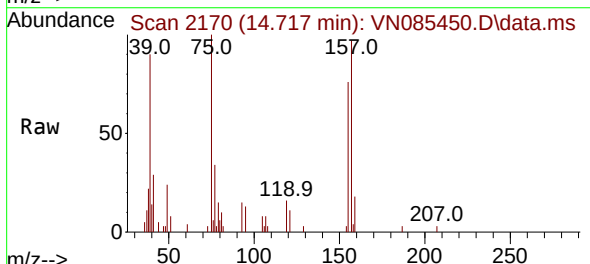
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBS01

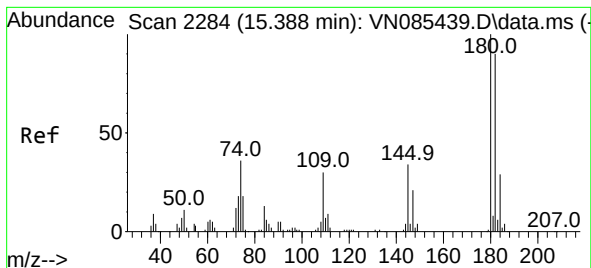
Tgt Ion:146 Resp: 86586
 Ion Ratio Lower Upper
 146 100
 111 42.4 21.7 65.1
 148 62.3 31.4 94.2



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.740 ug/l
 RT: 14.717 min Scan# 2170
 Delta R.T. -0.000 min
 Lab File: VN085450.D
 Acq: 15 Jan 2025 10:29

Tgt Ion: 75 Resp: 10904
 Ion Ratio Lower Upper
 75 100
 155 69.0 36.4 109.2
 157 94.7 45.4 136.1





#93

1,2,4-Trichlorobenzene

Concen: 18.095 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBS01

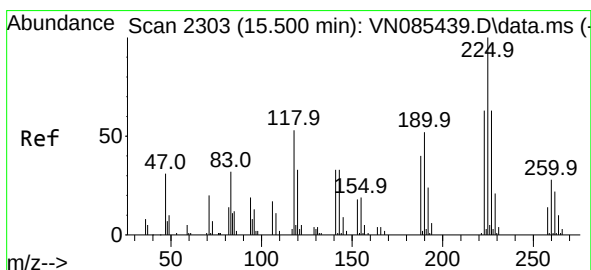
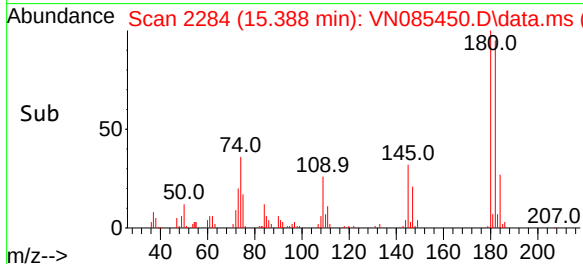
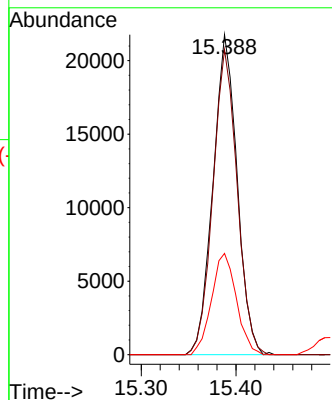
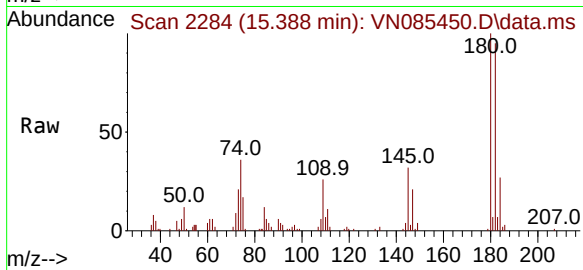
Tgt Ion:180 Resp: 38461

Ion Ratio Lower Upper

180 100

182 95.9 46.8 140.3

145 32.7 16.0 48.0



#94

Hexachlorobutadiene

Concen: 18.761 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN085450.D

Acq: 15 Jan 2025 10:29

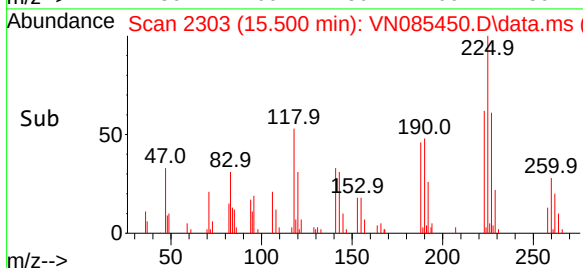
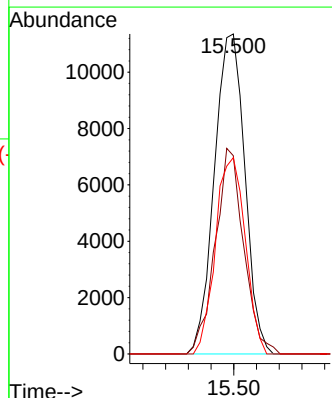
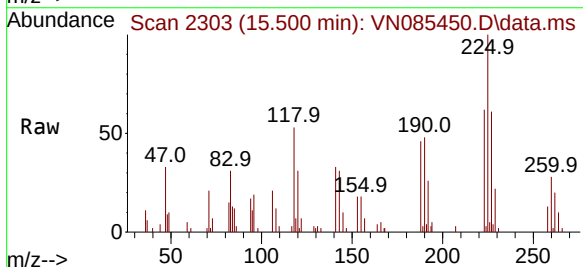
Tgt Ion:225 Resp: 21171

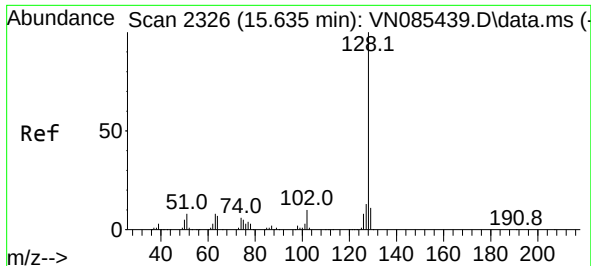
Ion Ratio Lower Upper

225 100

223 60.1 30.7 92.1

227 60.0 30.9 92.5

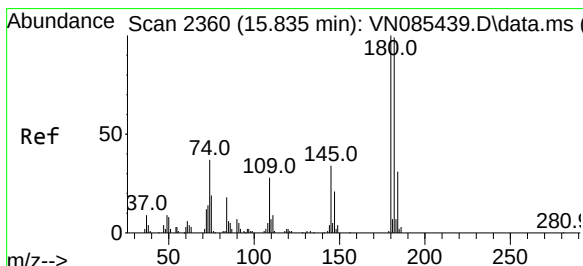
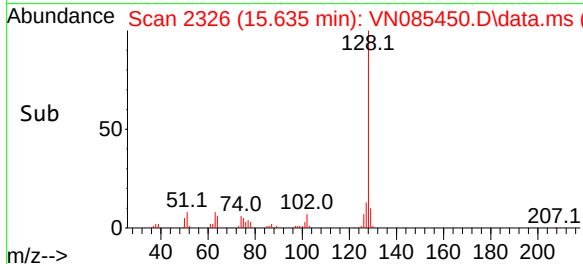
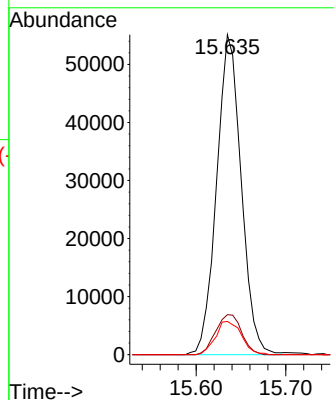
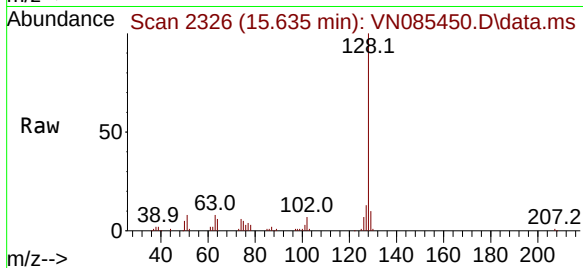




#95
Naphthalene
Concen: 16.518 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

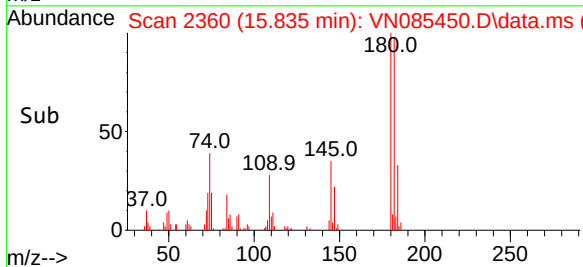
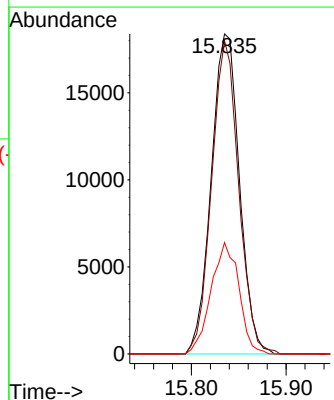
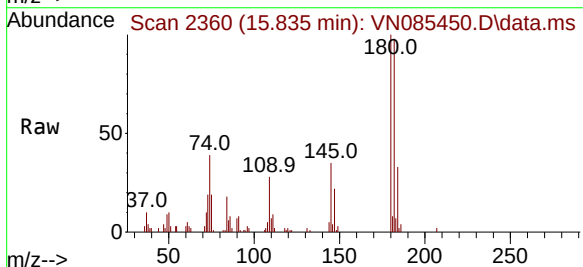
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion:128 Resp: 104770
Ion Ratio Lower Upper
128 100
127 13.2 10.6 16.0
129 11.0 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 17.704 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:180 Resp: 38077
Ion Ratio Lower Upper
180 100
182 93.7 47.4 142.2
145 34.4 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085451.D
 Acq On : 15 Jan 2025 11:02
 Operator : JC\MD
 Sample : VN0115WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBSD01

Quant Time: Jan 16 00:54:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	188898	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	323122	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	286298	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	136502	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	149231	48.941	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.880%
35) Dibromofluoromethane	8.159	113	110423	49.259	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.520%
50) Toluene-d8	10.565	98	399040	50.102	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.200%
62) 4-Bromofluorobenzene	12.847	95	137216	50.364	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	100.720%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	50526	19.755	ug/l	95
3) Chloromethane	2.359	50	53907	19.467	ug/l	98
4) Vinyl Chloride	2.512	62	53251	19.131	ug/l	98
5) Bromomethane	2.965	94	32421	19.283	ug/l	95
6) Chloroethane	3.124	64	32723	18.543	ug/l	98
7) Trichlorofluoromethane	3.506	101	79391	19.658	ug/l	98
8) Diethyl Ether	3.965	74	26011	18.643	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	44531	19.576	ug/l	99
10) Methyl Iodide	4.594	142	52886	20.302	ug/l	95
11) Tert butyl alcohol	5.500	59	33491	95.920	ug/l	100
12) 1,1-Dichloroethene	4.341	96	39080	19.277	ug/l	98
13) Acrolein	4.171	56	55291	116.005	ug/l	99
14) Allyl chloride	5.030	41	63692	19.361	ug/l	99
15) Acrylonitrile	5.712	53	108425	97.766	ug/l	99
16) Acetone	4.418	43	93485	94.887	ug/l	98
17) Carbon Disulfide	4.718	76	112944	18.094	ug/l	99
18) Methyl Acetate	5.012	43	58686	19.589	ug/l	100
19) Methyl tert-butyl Ether	5.788	73	138775	21.081	ug/l	98
20) Methylene Chloride	5.271	84	49058	20.114	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	43073	19.880	ug/l	93
22) Diisopropyl ether	6.665	45	156331	21.410	ug/l	97
23) Vinyl Acetate	6.600	43	604101	118.221	ug/l	98
24) 1,1-Dichloroethane	6.565	63	88831	19.952	ug/l	99
25) 2-Butanone	7.477	43	141498	97.595	ug/l	93
26) 2,2-Dichloropropane	7.488	77	78212	21.728	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	50200	19.672	ug/l	95
28) Bromochloromethane	7.806	49	38238	18.460	ug/l	100
29) Tetrahydrofuran	7.835	42	93959	102.217	ug/l	99
30) Chloroform	7.965	83	92715	20.149	ug/l	98
31) Cyclohexane	8.247	56	72255	18.672	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	80190	19.867	ug/l	98
36) 1,1-Dichloropropene	8.371	75	61822	19.650	ug/l	98
37) Ethyl Acetate	7.553	43	59684	18.795	ug/l	97
38) Carbon Tetrachloride	8.359	117	71714	19.911	ug/l	97
39) Methylcyclohexane	9.600	83	59161	20.011	ug/l	93
40) Benzene	8.600	78	189640	20.061	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085451.D
 Acq On : 15 Jan 2025 11:02
 Operator : JC\MD
 Sample : VN0115WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBSD01

Quant Time: Jan 16 00:54:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	31866	19.288	ug/l	99
42) 1,2-Dichloroethane	8.665	62	73669	20.692	ug/l	98
43) Isopropyl Acetate	8.682	43	100283	19.708	ug/l	99
44) Trichloroethene	9.347	130	44329	20.145	ug/l	97
45) 1,2-Dichloropropane	9.618	63	48696	20.167	ug/l	99
46) Dibromomethane	9.706	93	34080	19.561	ug/l	97
47) Bromodichloromethane	9.882	83	74218	20.909	ug/l	99
48) Methyl methacrylate	9.676	41	46655	20.374	ug/l	99
49) 1,4-Dioxane	9.688	88	14983	388.550	ug/l #	76
51) 4-Methyl-2-Pentanone	10.441	43	300611	101.808	ug/l	100
52) Toluene	10.623	92	117631	21.476	ug/l	97
53) t-1,3-Dichloropropene	10.829	75	68014	20.276	ug/l	96
54) cis-1,3-Dichloropropene	10.306	75	75146	20.973	ug/l	100
55) 1,1,2-Trichloroethane	11.012	97	45220	20.861	ug/l	98
56) Ethyl methacrylate	10.870	69	63954	18.769	ug/l	98
57) 1,3-Dichloropropane	11.159	76	76979	20.424	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	148262	107.782	ug/l	97
59) 2-Hexanone	11.188	43	211689	101.890	ug/l	99
60) Dibromochloromethane	11.353	129	52957	20.236	ug/l	100
61) 1,2-Dibromoethane	11.465	107	42146	19.533	ug/l	100
64) Tetrachloroethene	11.100	164	40480	20.740	ug/l	97
65) Chlorobenzene	11.888	112	122590	19.546	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	44850	19.484	ug/l	100
67) Ethyl Benzene	11.959	91	208196	20.381	ug/l	100
68) m/p-Xylenes	12.070	106	160511	42.515	ug/l	98
69) o-Xylene	12.394	106	75509	20.928	ug/l	99
70) Styrene	12.406	104	124126	20.788	ug/l	100
71) Bromoform	12.576	173	34000	20.643	ug/l #	99
73) Isopropylbenzene	12.694	105	189617	20.582	ug/l	99
74) N-amyl acetate	12.488	43	81241	19.619	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	61871	19.012	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	79469	28.643	ug/l	49
77) Bromobenzene	12.976	156	48489	20.145	ug/l	98
78) n-propylbenzene	13.035	91	228827	20.981	ug/l	100
79) 2-Chlorotoluene	13.123	91	143092	20.272	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	163195	21.445	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	22916	22.347	ug/l #	78
82) 4-Chlorotoluene	13.217	91	144513	20.562	ug/l	99
83) tert-Butylbenzene	13.435	119	131013	20.501	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	164079	21.634	ug/l	100
85) sec-Butylbenzene	13.611	105	189519	21.398	ug/l	99
86) p-Isopropyltoluene	13.723	119	153867	20.798	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	89126	20.107	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	87559	19.057	ug/l	99
89) n-Butylbenzene	14.053	91	128246	20.183	ug/l	100
90) Hexachloroethane	14.329	117	31733	18.820	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	83864	18.967	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10944	18.416	ug/l	99
93) 1,2,4-Trichlorobenzene	15.388	180	39555	19.248	ug/l	98
94) Hexachlorobutadiene	15.500	225	20590	18.872	ug/l	98
95) Naphthalene	15.635	128	106293	17.334	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	39966	19.221	ug/l	99

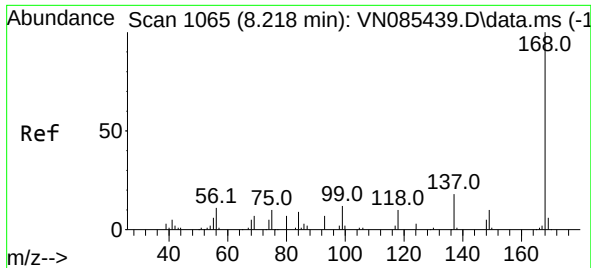
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Data File : VN085451.D
Acq On : 15 Jan 2025 11:02
Operator : JC\MD
Sample : VN0115WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Quant Time: Jan 16 00:54:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

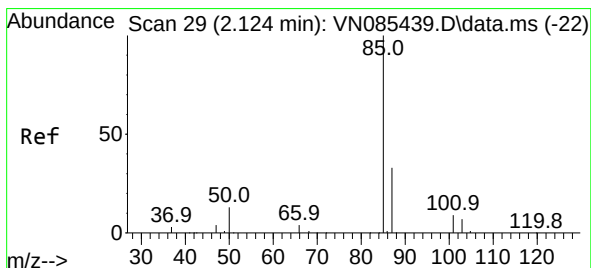
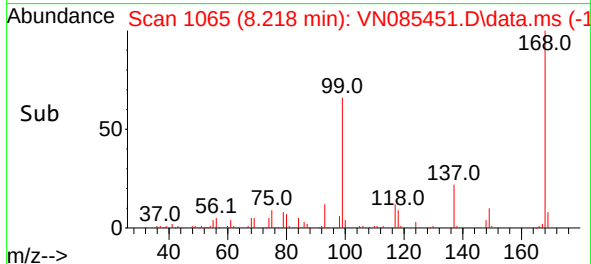
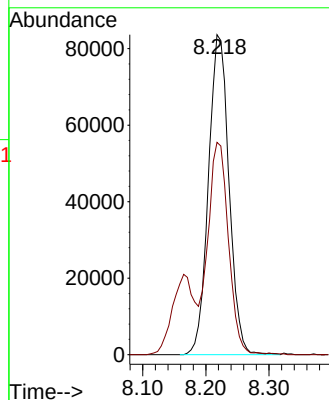
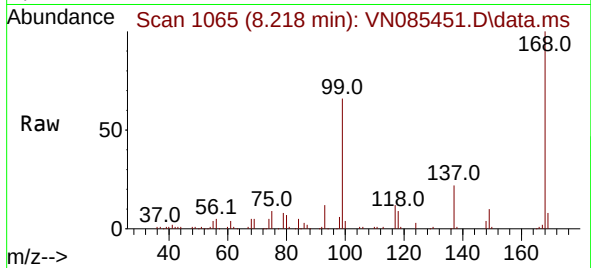
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

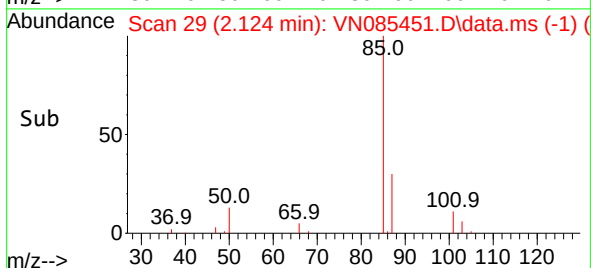
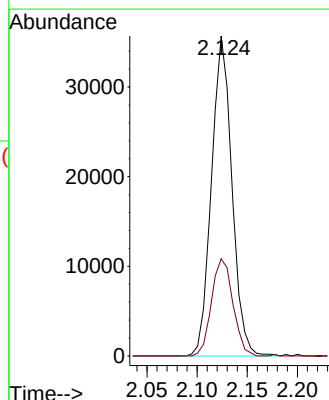
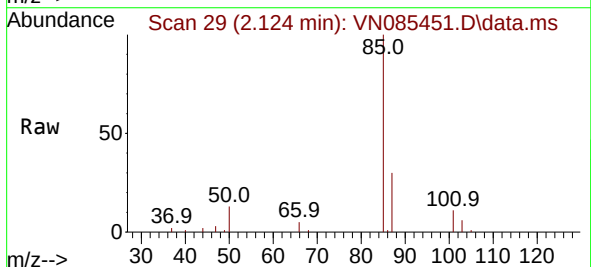
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

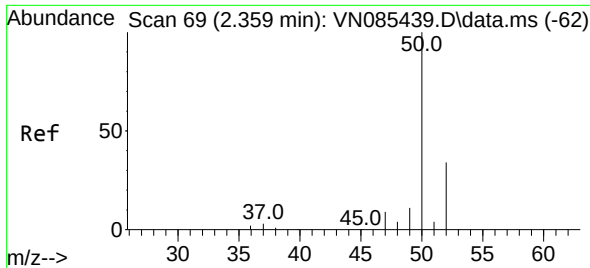
Tgt Ion:168 Resp: 188898
Ion Ratio Lower Upper
168 100
99 66.1 53.6 80.4



#2
Dichlorodifluoromethane
Concen: 19.755 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 85 Resp: 50526
Ion Ratio Lower Upper
85 100
87 30.4 16.7 50.1

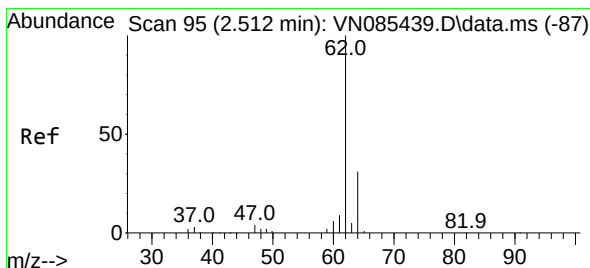
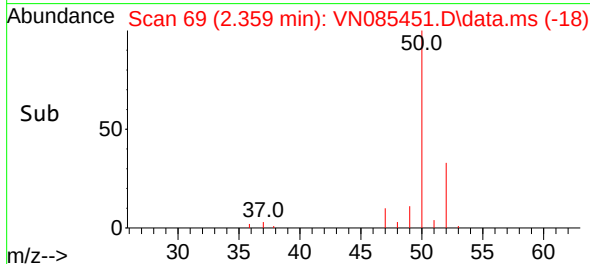
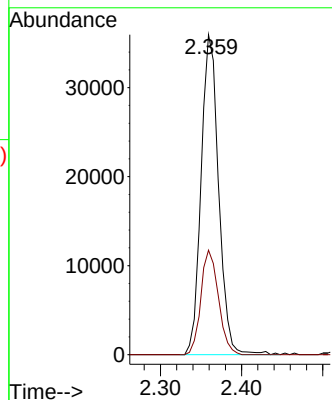
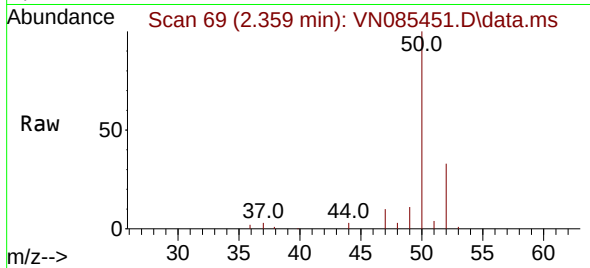




#3
Chloromethane
Concen: 19.467 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

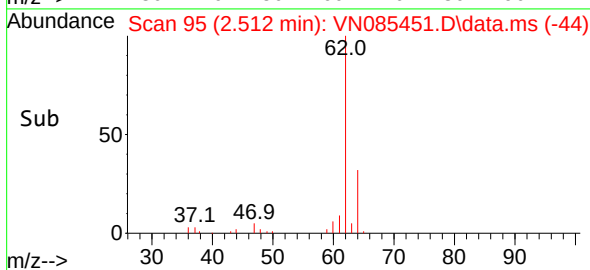
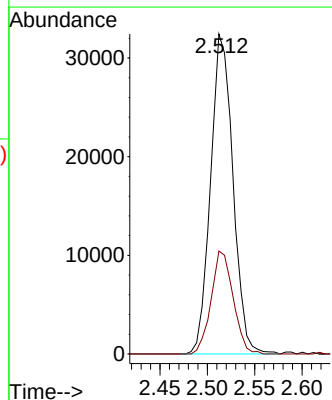
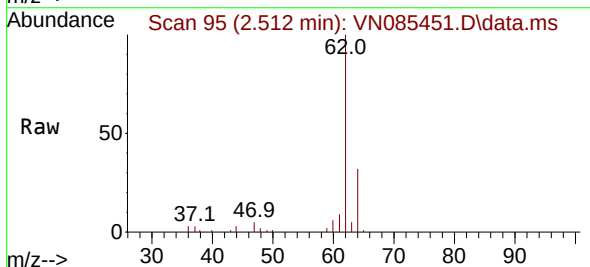
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

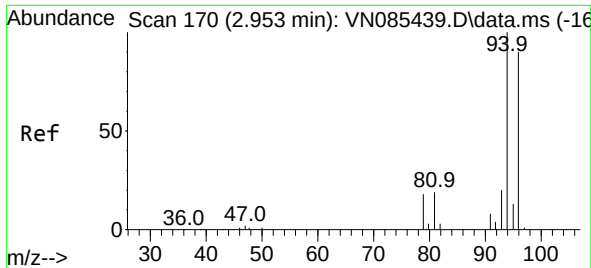
Tgt Ion: 50 Resp: 53907
Ion Ratio Lower Upper
50 100
52 32.6 27.0 40.6



#4
Vinyl Chloride
Concen: 19.131 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 62 Resp: 53251
Ion Ratio Lower Upper
62 100
64 32.1 24.8 37.2

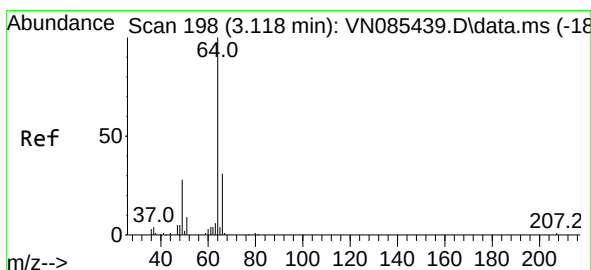
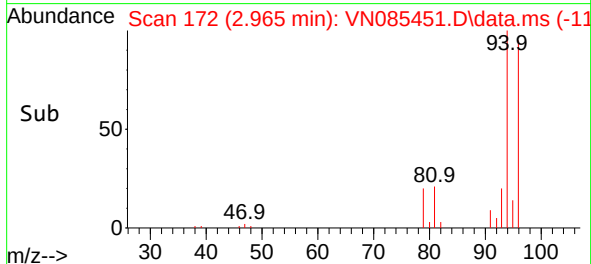
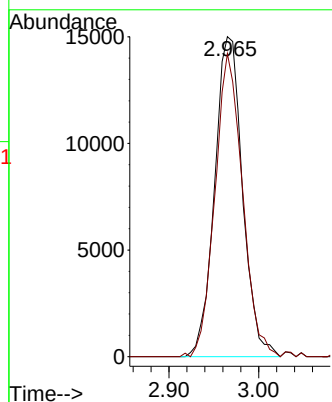
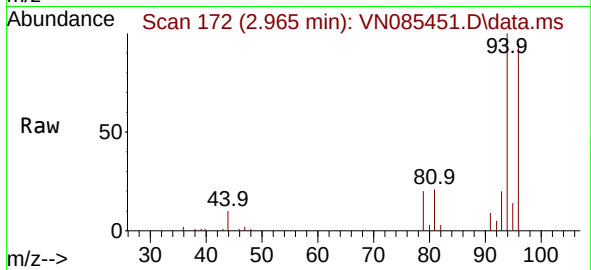




#5
Bromomethane
Concen: 19.283 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

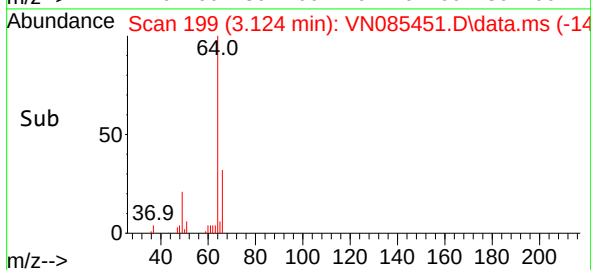
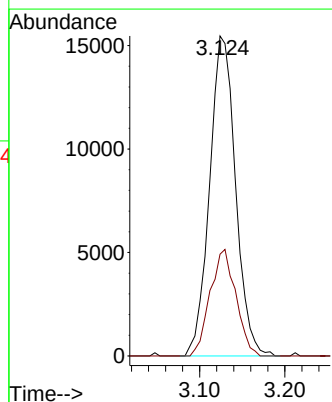
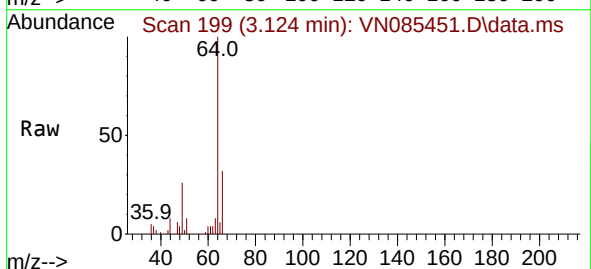
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

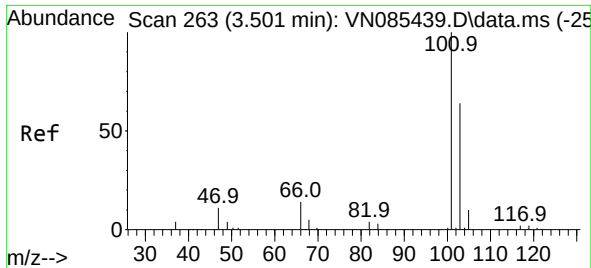
Tgt Ion: 94 Resp: 32421
Ion Ratio Lower Upper
94 100
96 94.7 71.8 107.6



#6
Chloroethane
Concen: 18.543 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 64 Resp: 32723
Ion Ratio Lower Upper
64 100
66 31.8 24.6 36.8

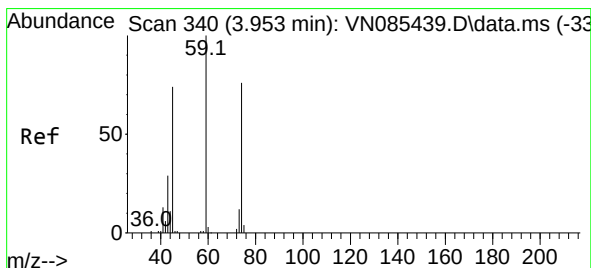
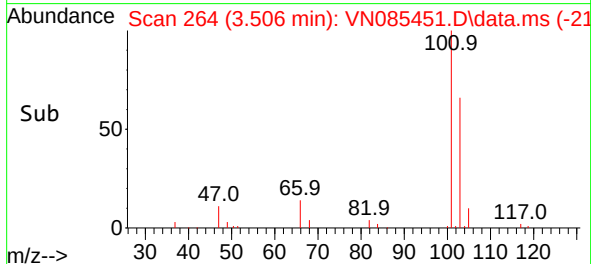
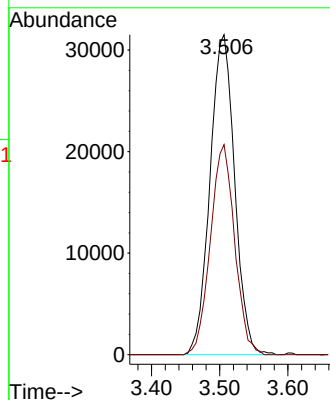
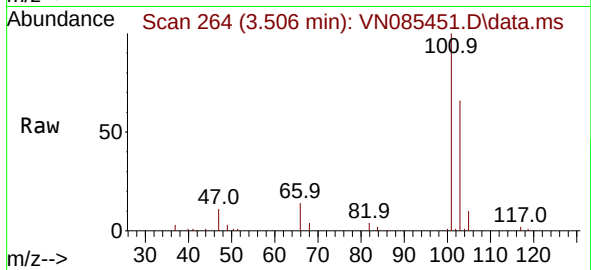




#7
 Trichlorofluoromethane
 Concen: 19.658 ug/l
 RT: 3.506 min Scan# 210
 Delta R.T. 0.006 min
 Lab File: VN085451.D
 Acq: 15 Jan 2025 11:02

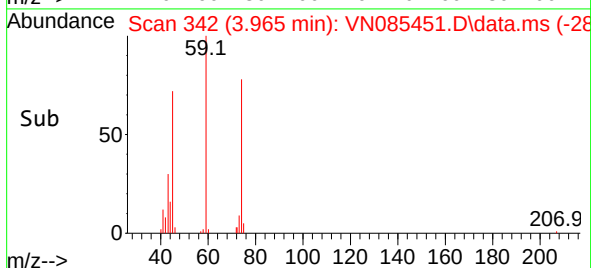
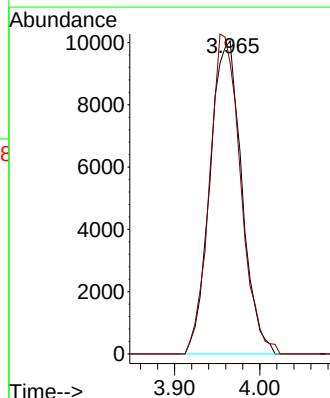
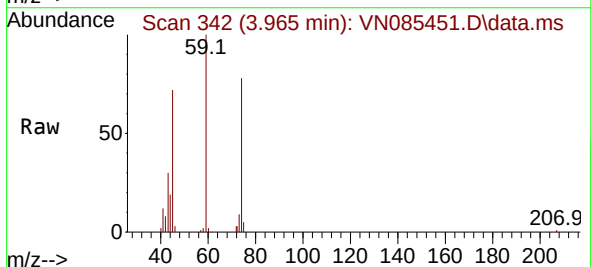
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBSD01

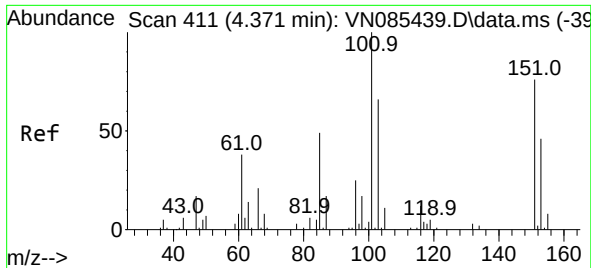
Tgt Ion:101 Resp: 79391
 Ion Ratio Lower Upper
 101 100
 103 65.7 51.4 77.2



#8
 Diethyl Ether
 Concen: 18.643 ug/l
 RT: 3.965 min Scan# 342
 Delta R.T. 0.012 min
 Lab File: VN085451.D
 Acq: 15 Jan 2025 11:02

Tgt Ion: 74 Resp: 26011
 Ion Ratio Lower Upper
 74 100
 45 100.1 49.7 149.1

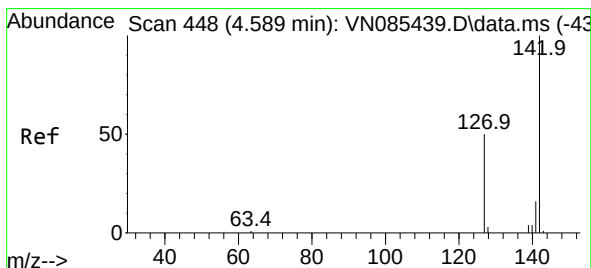
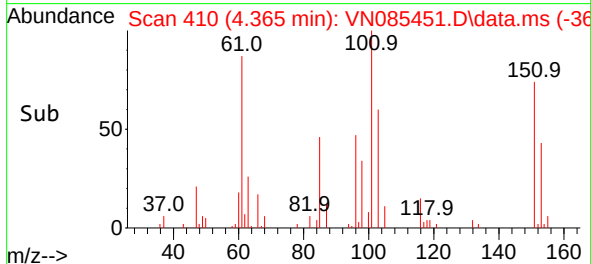
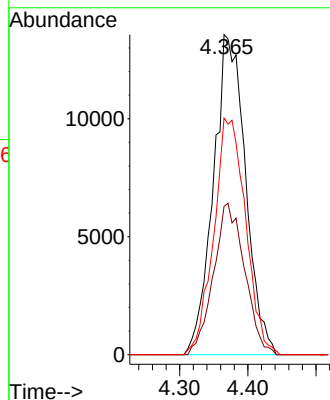
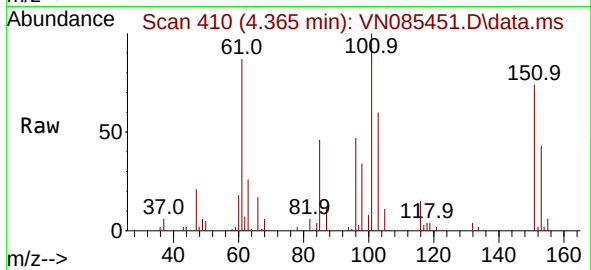




#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.576 ug/l
RT: 4.365 min Scan# 411
Delta R.T. -0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

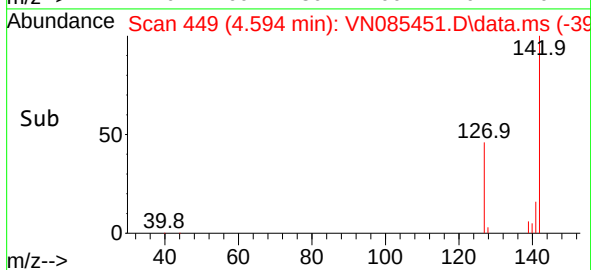
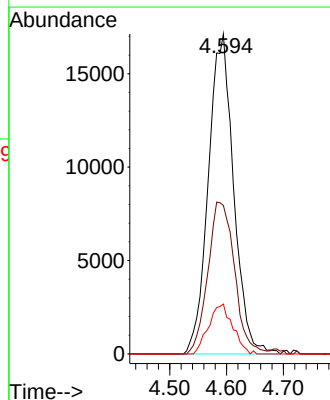
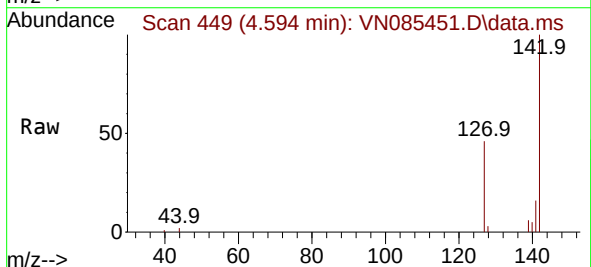
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

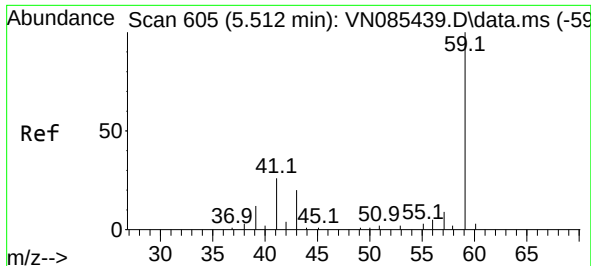
Tgt Ion:101 Resp: 44531
Ion Ratio Lower Upper
101 100
85 45.8 37.8 56.8
151 73.3 58.8 88.2



#10
Methyl Iodide
Concen: 20.302 ug/l
RT: 4.594 min Scan# 449
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:142 Resp: 52886
Ion Ratio Lower Upper
142 100
127 46.4 40.3 60.5
141 15.6 12.8 19.2

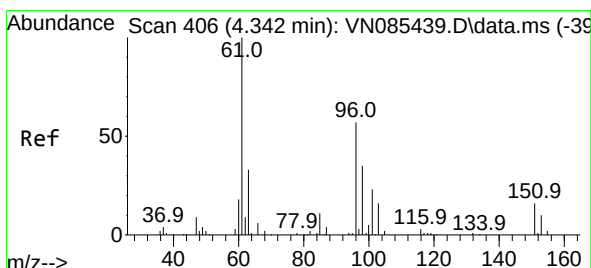
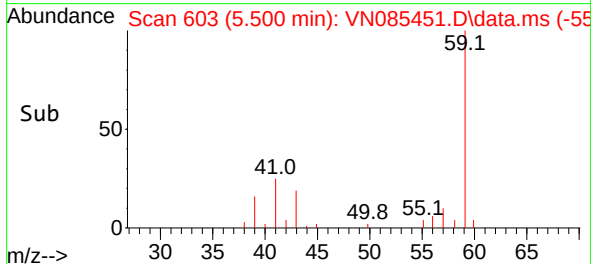
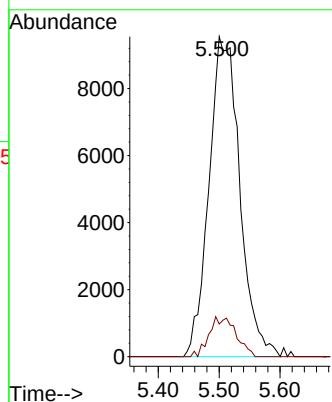
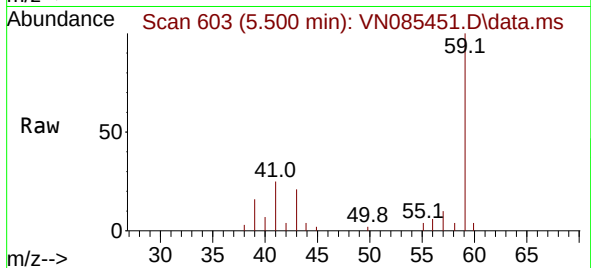




#11
Tert butyl alcohol
Concen: 95.920 ug/l
RT: 5.500 min Scan# 605
Delta R.T. -0.012 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

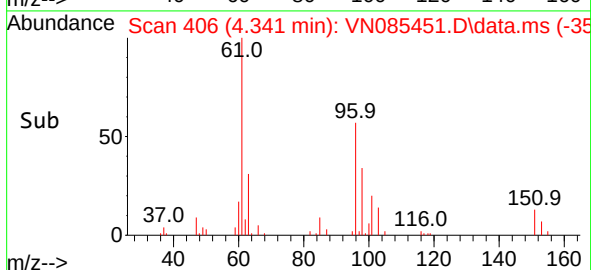
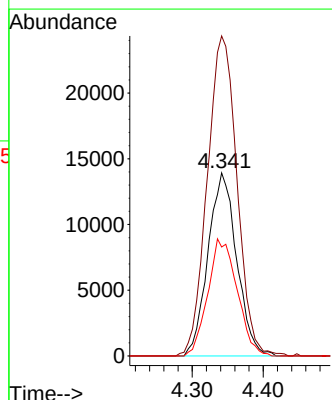
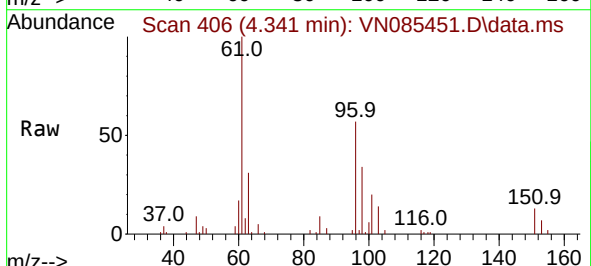
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

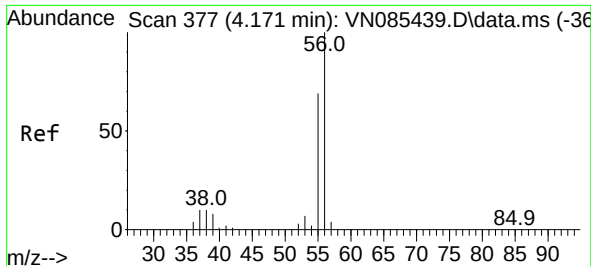
Tgt Ion: 59 Resp: 33491
Ion Ratio Lower Upper
59 100
57 10.9 8.6 13.0



#12
1,1-Dichloroethene
Concen: 19.277 ug/l
RT: 4.341 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 96 Resp: 39080
Ion Ratio Lower Upper
96 100
61 173.3 141.0 211.4
98 59.5 49.0 73.6





#13

Acrolein

Concen: 116.005 ug/l

RT: 4.171 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

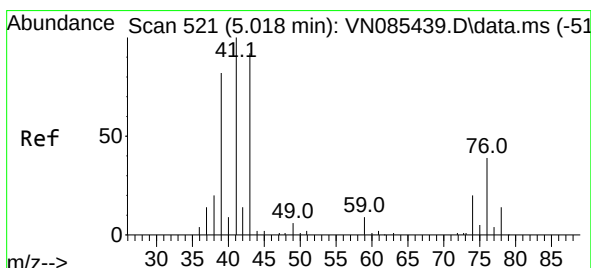
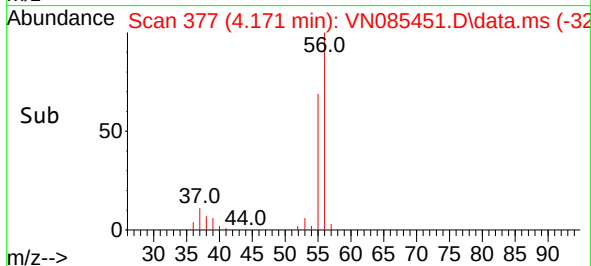
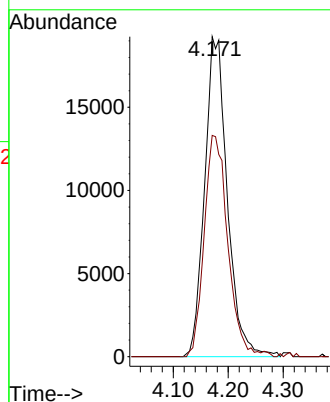
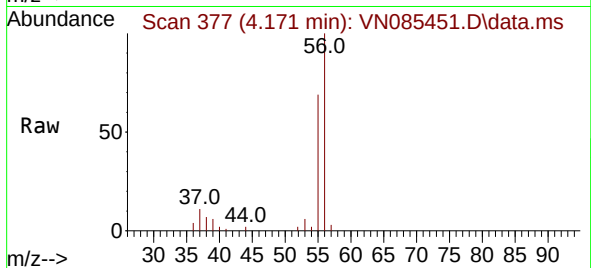
VN0115WBSD01

Tgt Ion: 56 Resp: 55291

Ion Ratio Lower Upper

56 100

55 71.3 56.3 84.5



#14

Allyl chloride

Concen: 19.361 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

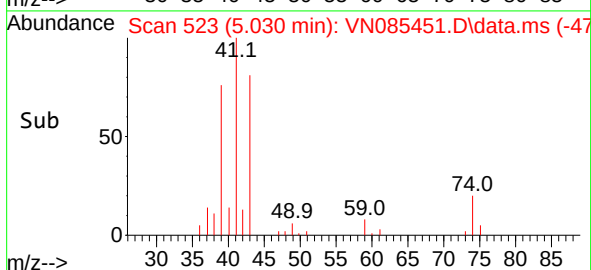
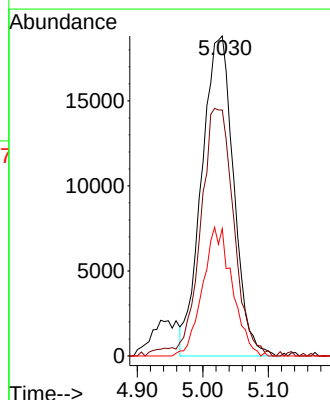
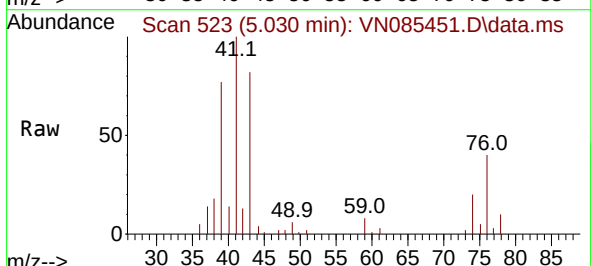
Tgt Ion: 41 Resp: 63692

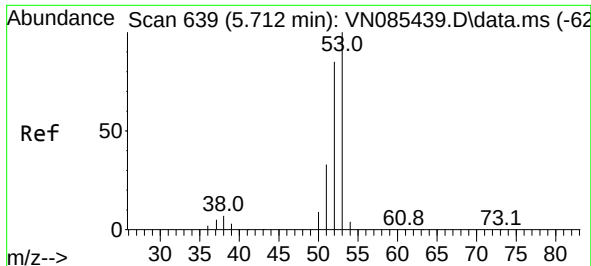
Ion Ratio Lower Upper

41 100

39 80.8 64.4 96.6

76 37.4 30.5 45.7

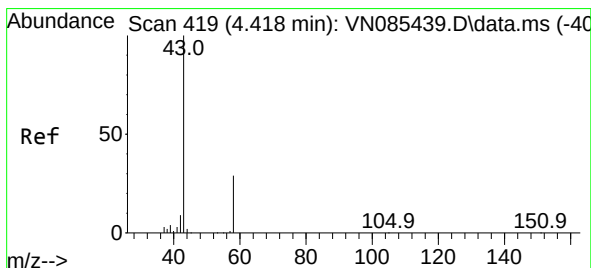
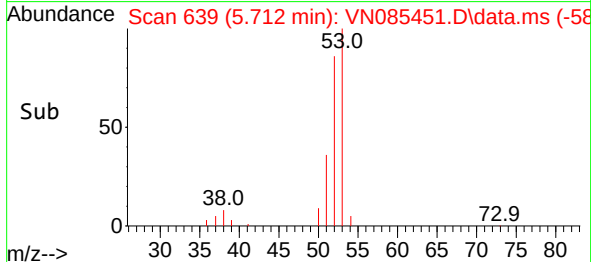
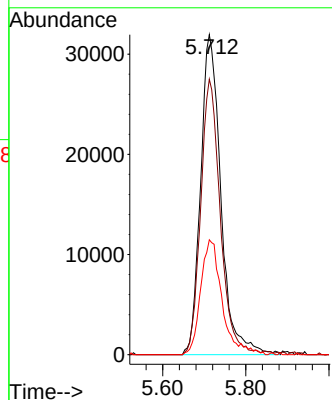
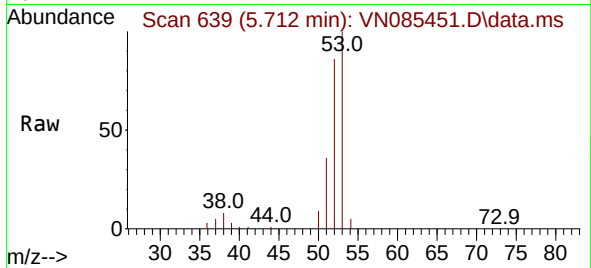




#15
Acrylonitrile
Concen: 97.766 ug/l
RT: 5.712 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

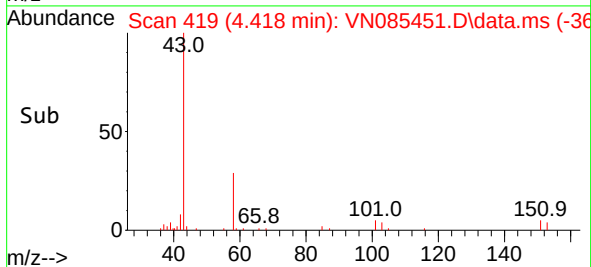
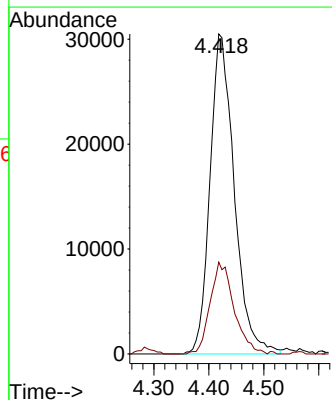
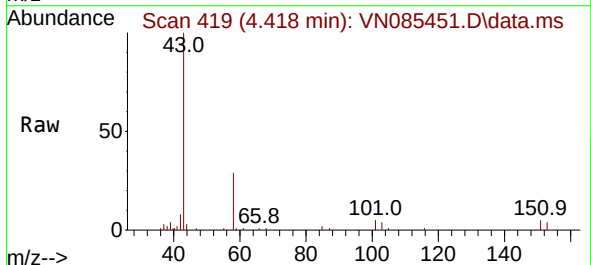
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

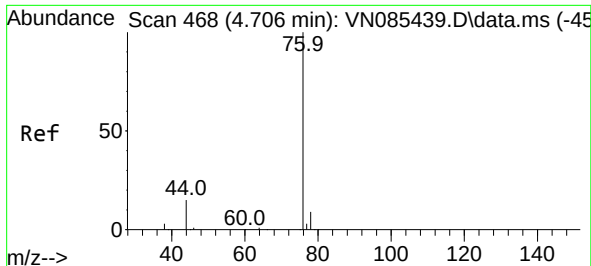
Tgt Ion: 53 Resp: 108425
Ion Ratio Lower Upper
53 100
52 83.1 65.5 98.3
51 37.9 29.8 44.8



#16
Acetone
Concen: 94.887 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 43 Resp: 93485
Ion Ratio Lower Upper
43 100
58 28.7 23.8 35.6

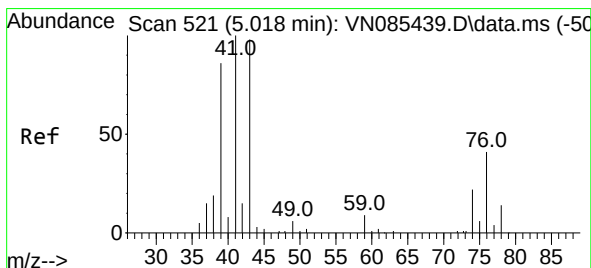
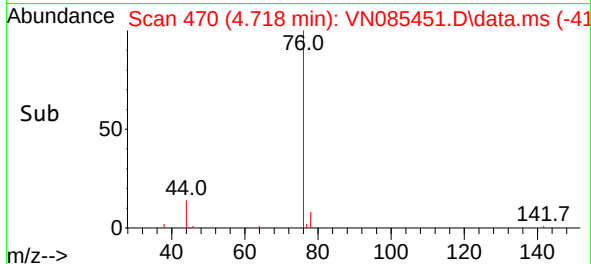
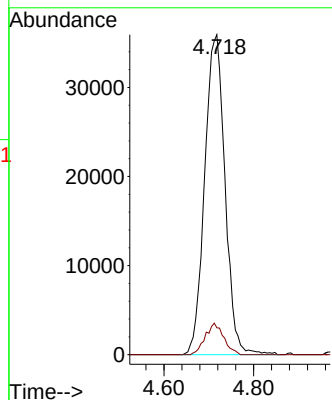
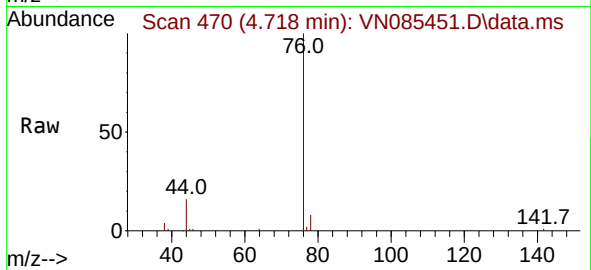




#17
Carbon Disulfide
Concen: 18.094 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

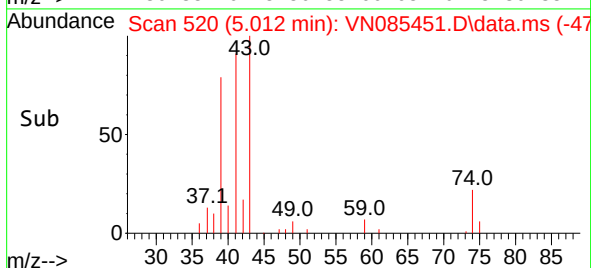
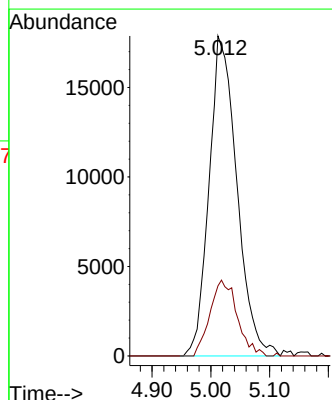
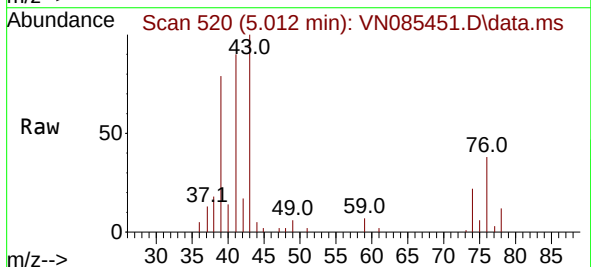
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

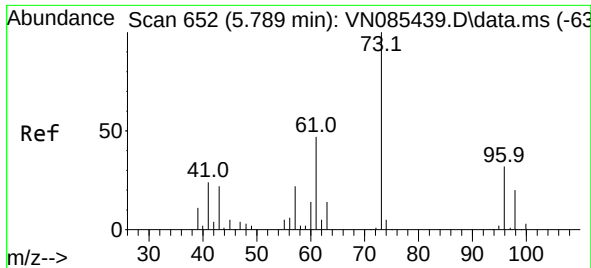
Tgt Ion: 76 Resp: 112944
Ion Ratio Lower Upper
76 100
78 8.4 6.9 10.3



#18
Methyl Acetate
Concen: 19.589 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 43 Resp: 58686
Ion Ratio Lower Upper
43 100
74 23.2 18.6 28.0

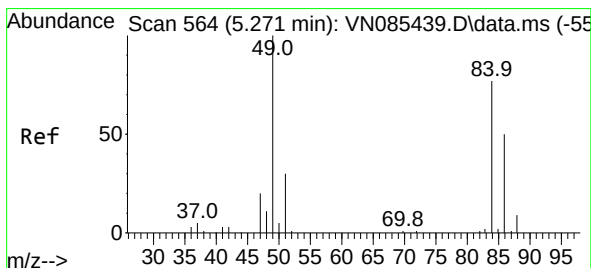
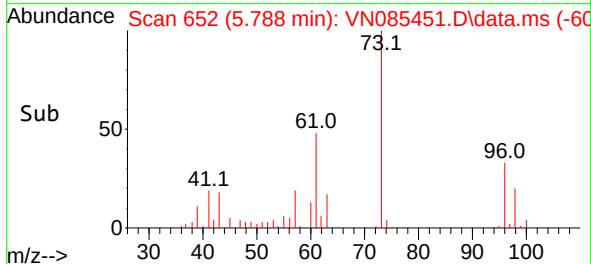
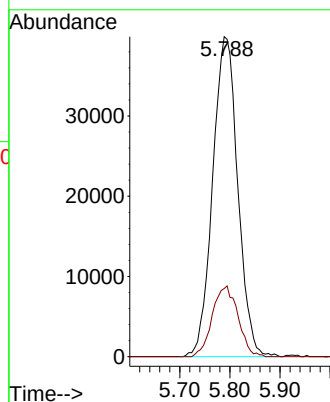
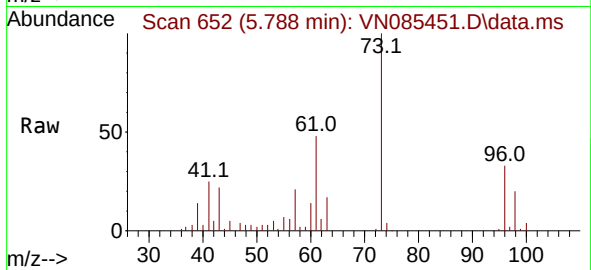




#19
Methyl tert-butyl Ether
Concen: 21.081 ug/l
RT: 5.788 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

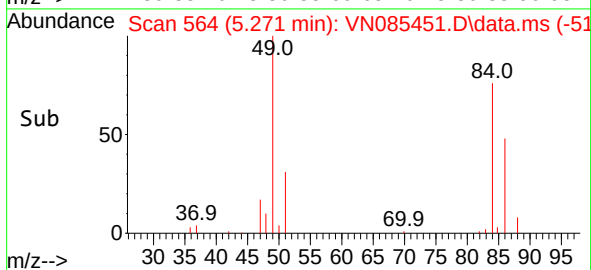
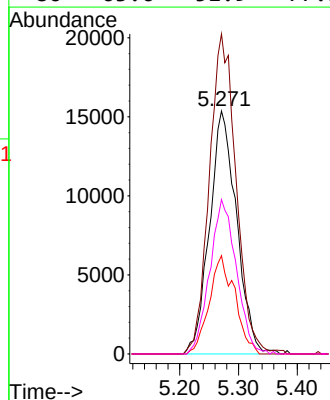
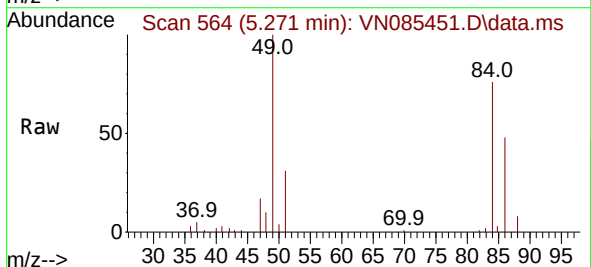
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

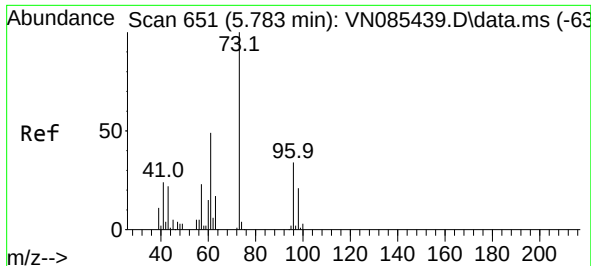
Tgt Ion: 73 Resp: 138775
Ion Ratio Lower Upper
73 100
57 21.3 17.8 26.8



#20
Methylene Chloride
Concen: 20.114 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 84 Resp: 49058
Ion Ratio Lower Upper
84 100
49 131.8 104.1 156.1
51 40.5 31.0 46.4
86 63.6 51.9 77.9

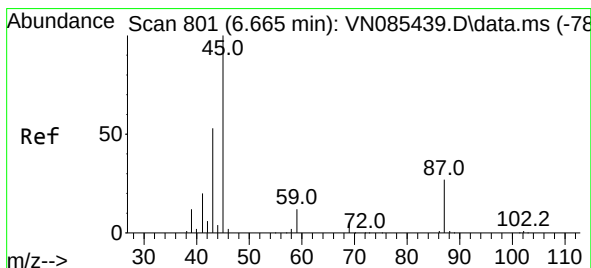
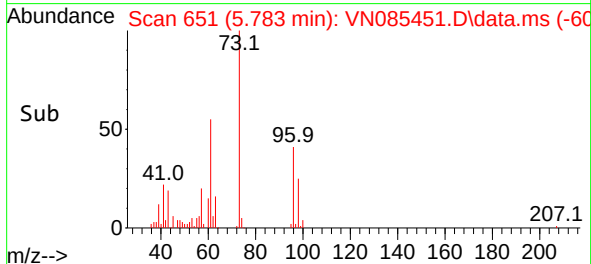
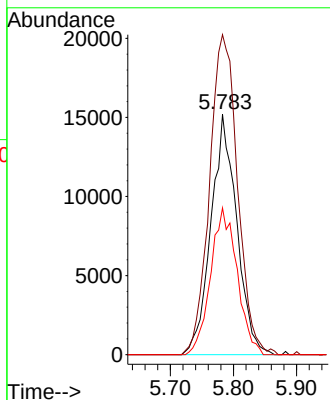
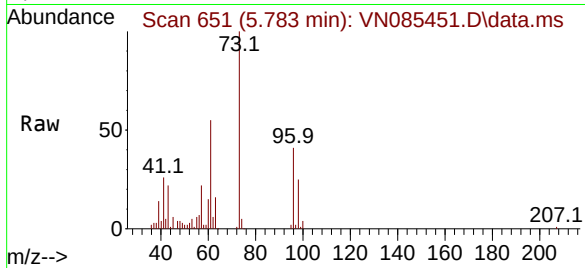




#21
trans-1,2-Dichloroethene
Concen: 19.880 ug/l
RT: 5.783 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

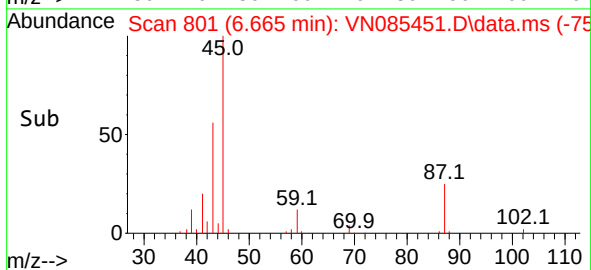
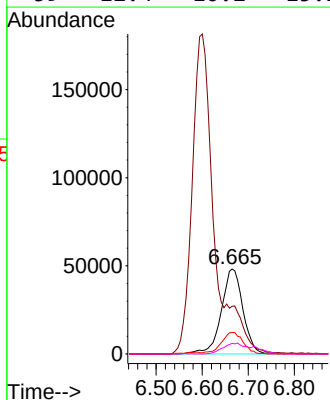
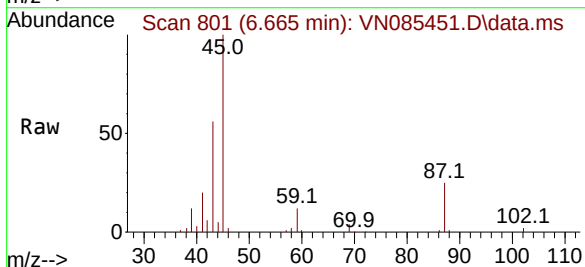
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

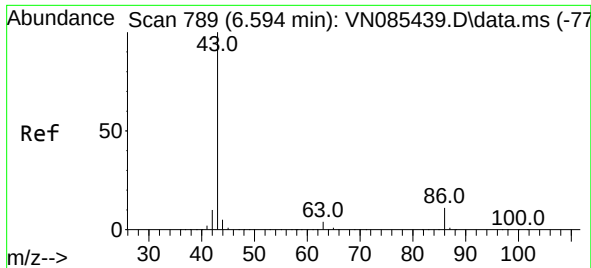
Tgt Ion: 96 Resp: 43073
Ion Ratio Lower Upper
96 100
61 133.1 115.7 173.5
98 61.0 49.8 74.8



#22
Diisopropyl ether
Concen: 21.410 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 45 Resp: 156331
Ion Ratio Lower Upper
45 100
43 54.3 45.0 67.6
87 25.3 21.8 32.8
59 12.4 10.2 15.2

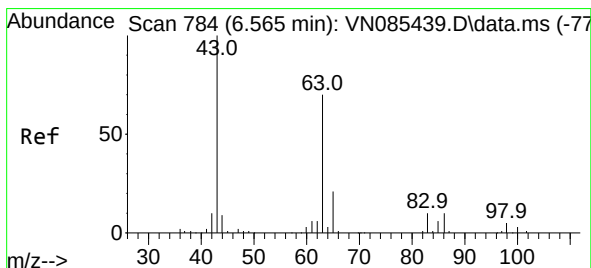
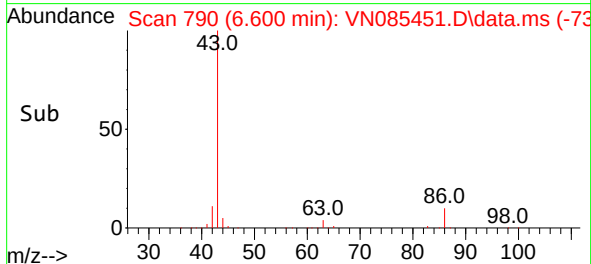
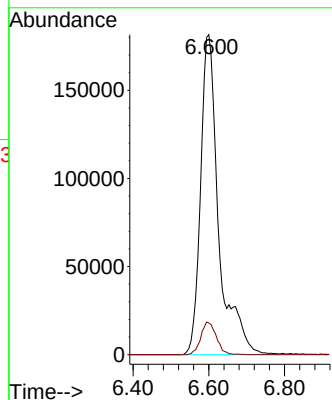
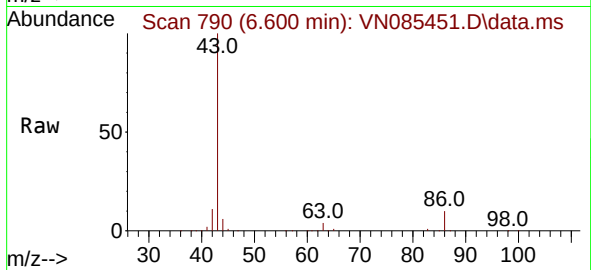




#23
 Vinyl Acetate
 Concen: 118.221 ug/l
 RT: 6.600 min Scan# 790
 Delta R.T. 0.006 min
 Lab File: VN085451.D
 Acq: 15 Jan 2025 11:02

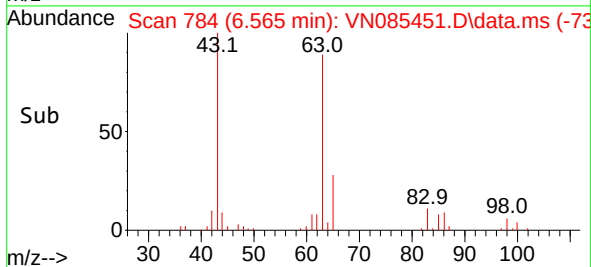
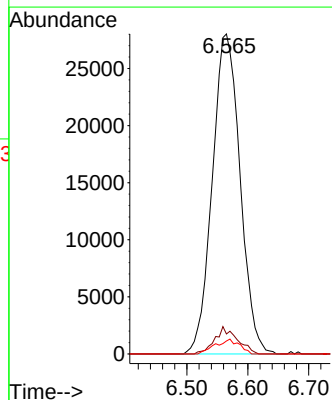
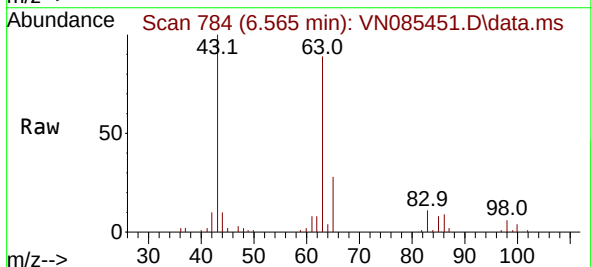
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBSD01

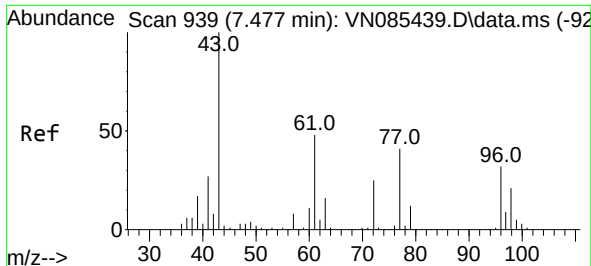
Tgt Ion: 43 Resp: 604101
 Ion Ratio Lower Upper
 43 100
 86 9.9 8.4 12.6



#24
 1,1-Dichloroethane
 Concen: 19.952 ug/l
 RT: 6.565 min Scan# 784
 Delta R.T. -0.000 min
 Lab File: VN085451.D
 Acq: 15 Jan 2025 11:02

Tgt Ion: 63 Resp: 88831
 Ion Ratio Lower Upper
 63 100
 98 6.3 3.3 9.8
 100 4.1 2.0 6.0

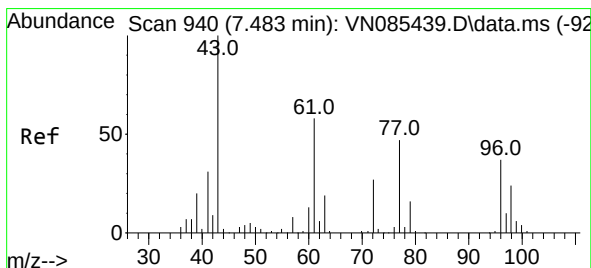
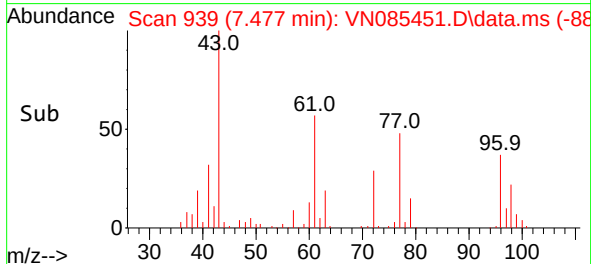
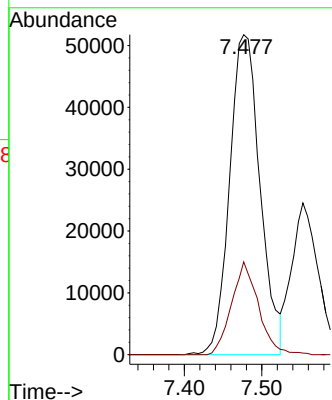
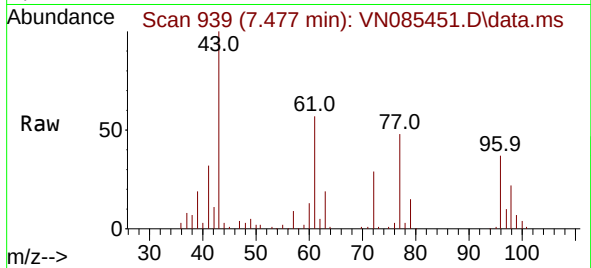




#25
2-Butanone
Concen: 97.595 ug/l
RT: 7.477 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

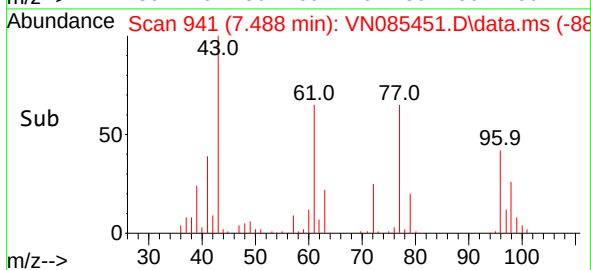
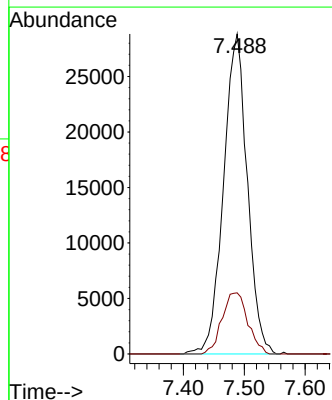
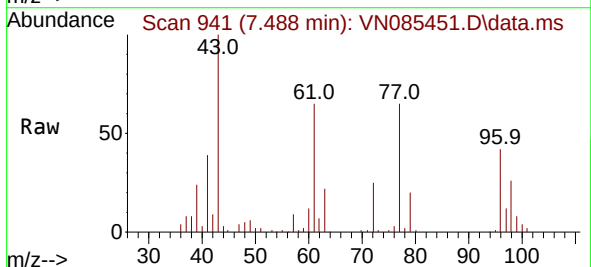
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

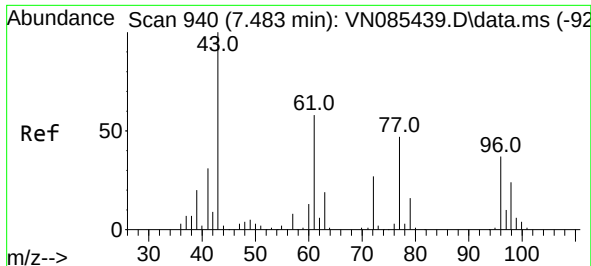
Tgt Ion: 43 Resp: 141498
Ion Ratio Lower Upper
43 100
72 29.0 20.2 30.4



#26
2,2-Dichloropropane
Concen: 21.728 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 77 Resp: 78212
Ion Ratio Lower Upper
77 100
97 20.7 10.7 32.1

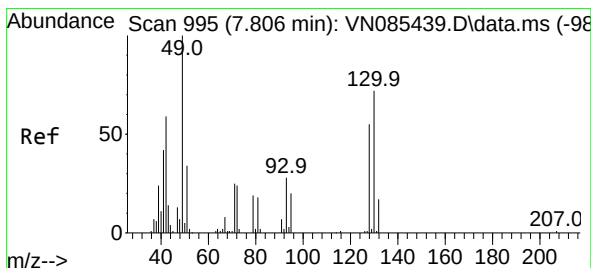
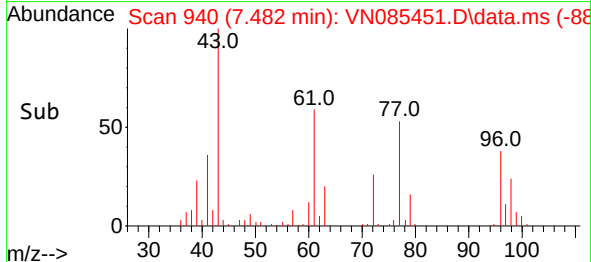
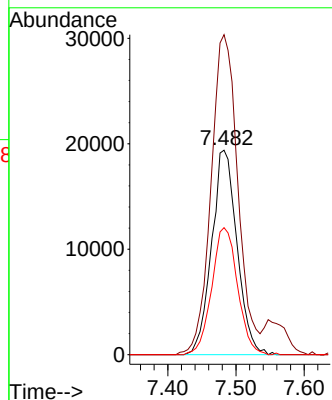
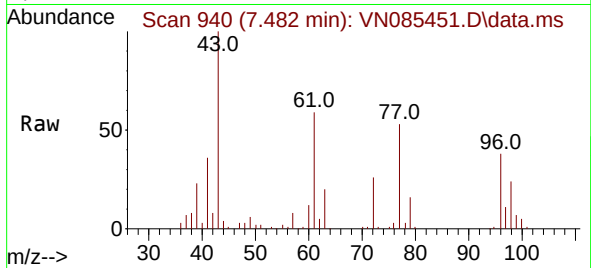




#27
 cis-1,2-Dichloroethene
 Concen: 19.672 ug/l
 RT: 7.482 min Scan# 940
 Delta R.T. -0.000 min
 Lab File: VN085451.D
 Acq: 15 Jan 2025 11:02

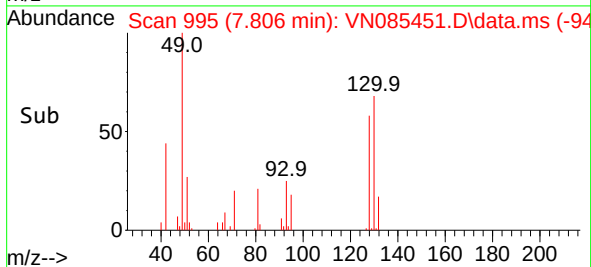
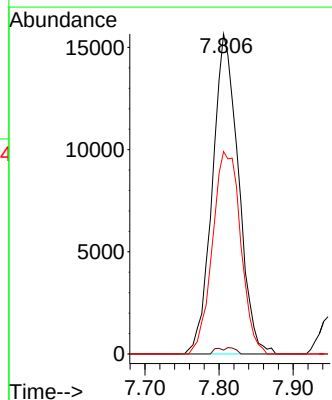
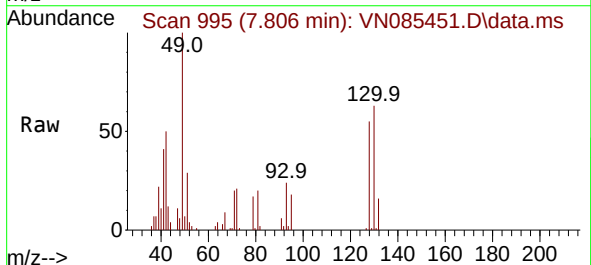
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBSD01

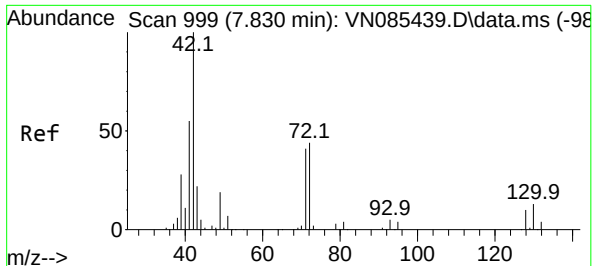
Tgt Ion: 96 Resp: 50200
 Ion Ratio Lower Upper
 96 100
 61 165.3 0.0 311.8
 98 63.3 0.0 126.0



#28
 Bromochloromethane
 Concen: 18.460 ug/l
 RT: 7.806 min Scan# 995
 Delta R.T. -0.000 min
 Lab File: VN085451.D
 Acq: 15 Jan 2025 11:02

Tgt Ion: 49 Resp: 38238
 Ion Ratio Lower Upper
 49 100
 129 0.7 0.0 4.4
 130 68.4 55.0 82.4





#29

Tetrahydrofuran

Concen: 102.217 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

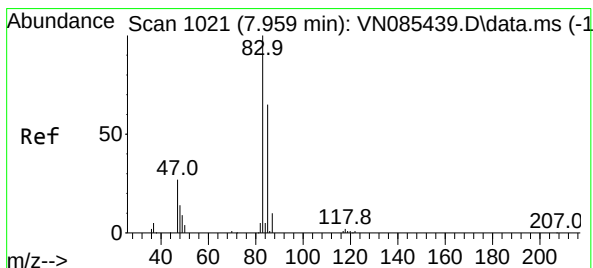
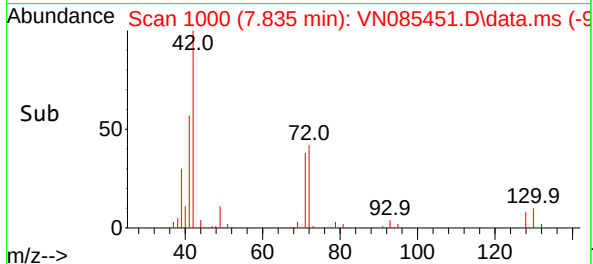
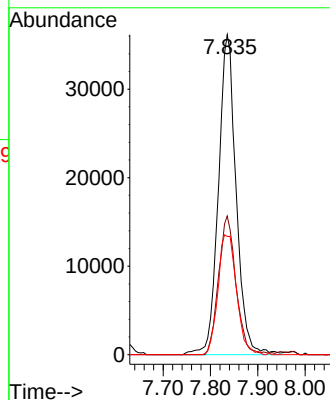
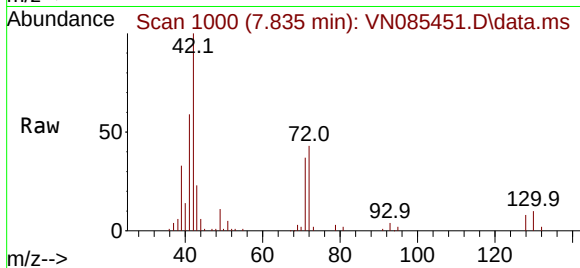
Tgt Ion: 42 Resp: 93959

Ion Ratio Lower Upper

42 100

72 42.2 34.2 51.2

71 39.3 32.5 48.7



#30

Chloroform

Concen: 20.149 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085451.D

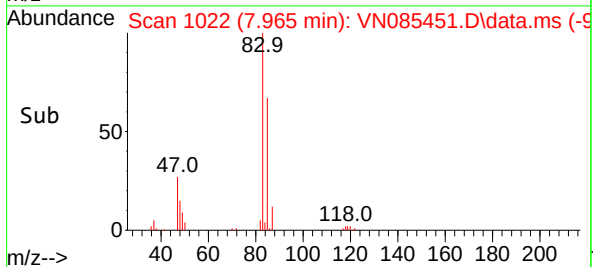
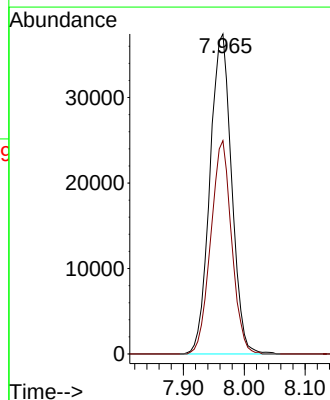
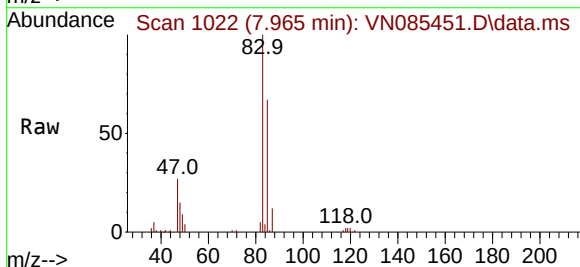
Acq: 15 Jan 2025 11:02

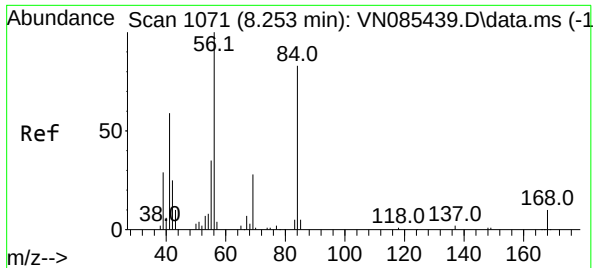
Tgt Ion: 83 Resp: 92715

Ion Ratio Lower Upper

83 100

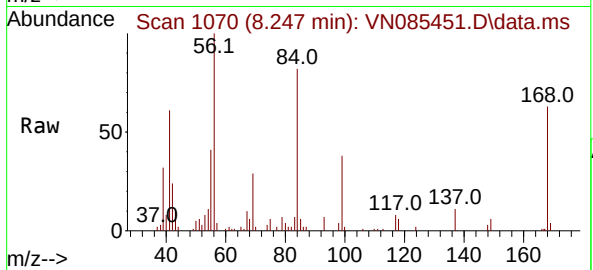
85 66.6 51.8 77.6



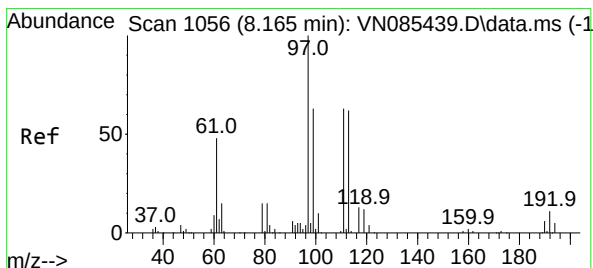
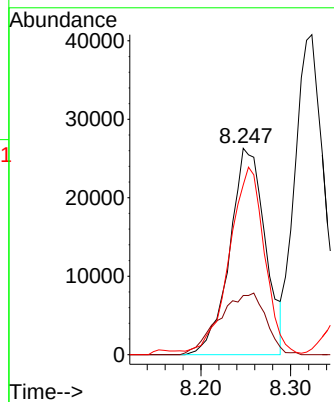
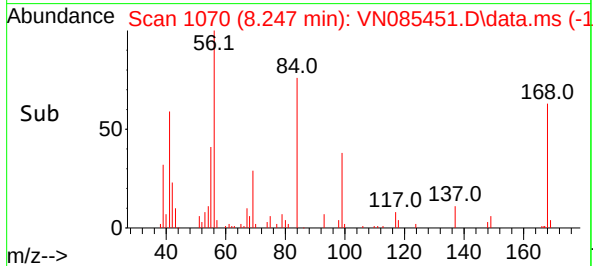


#31
Cyclohexane
Concen: 18.672 ug/l
RT: 8.247 min Scan# 1070
Delta R.T. -0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

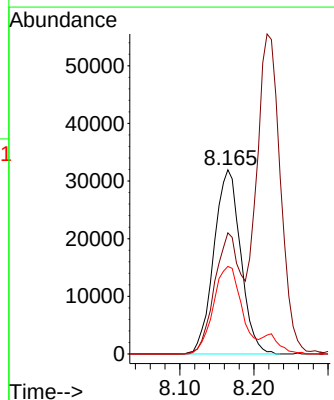
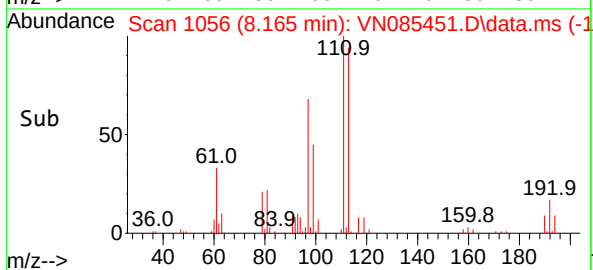
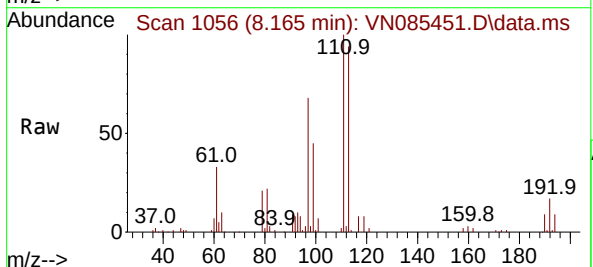


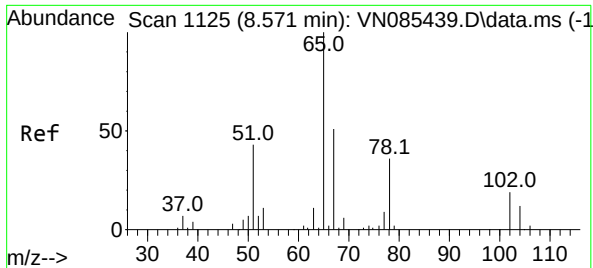
Tgt Ion: 56 Resp: 72255
Ion Ratio Lower Upper
56 100
69 28.7 22.2 33.4
84 80.4 66.4 99.6



#32
1,1,1-Trichloroethane
Concen: 19.867 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 97 Resp: 80190
Ion Ratio Lower Upper
97 100
99 64.5 49.8 74.6
61 50.6 41.4 62.2





#33

1,2-Dichloroethane-d4

Concen: 48.941 ug/l

RT: 8.576 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

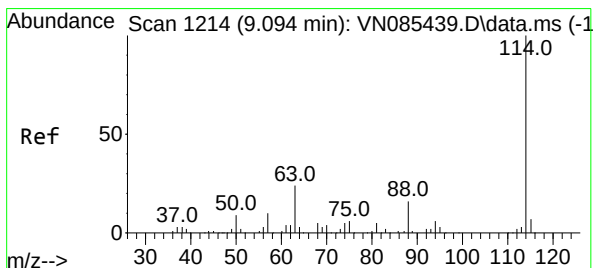
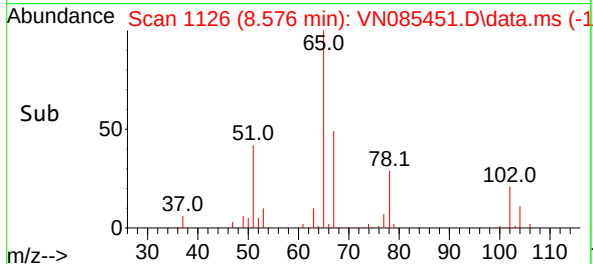
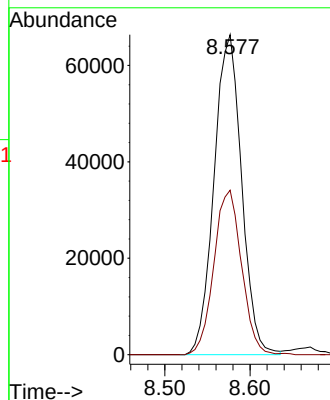
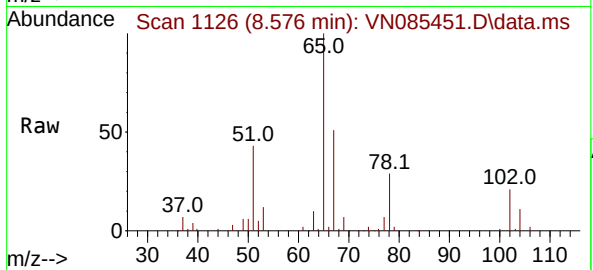
VN0115WBSD01

Tgt Ion: 65 Resp: 149231

Ion Ratio Lower Upper

65 100

67 51.7 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

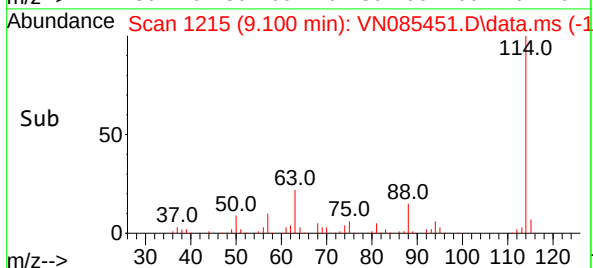
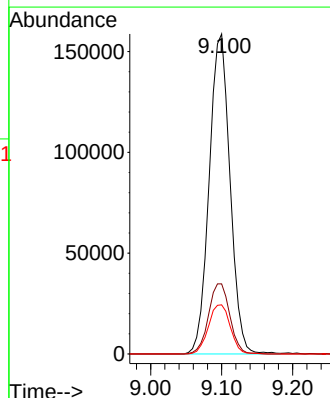
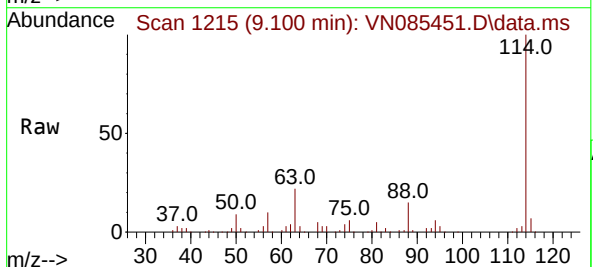
Tgt Ion: 114 Resp: 323122

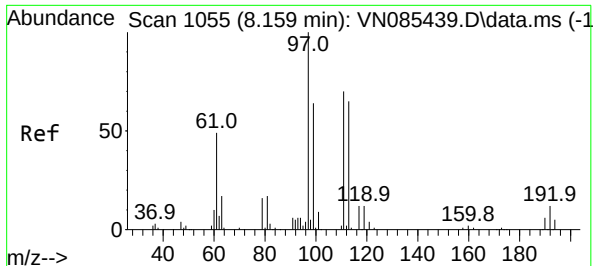
Ion Ratio Lower Upper

114 100

63 21.9 0.0 47.6

88 15.3 0.0 32.6





#35

Dibromofluoromethane

Concen: 49.259 ug/l

RT: 8.159 min Scan# 110423

Delta R.T. -0.000 min

Lab File: VN085451.D

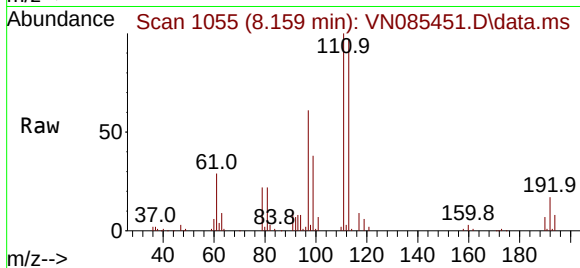
Acq: 15 Jan 2025 11:02

Instrument :

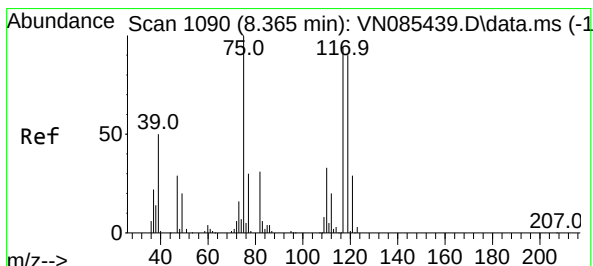
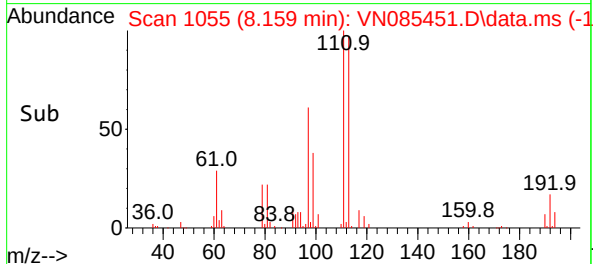
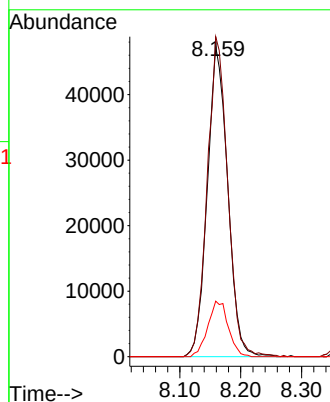
MSVOA_N

ClientSampleId :

VN0115WBSD01



Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.7	124.1
192	17.9	14.3	21.5



#36

1,1-Dichloropropene

Concen: 19.650 ug/l

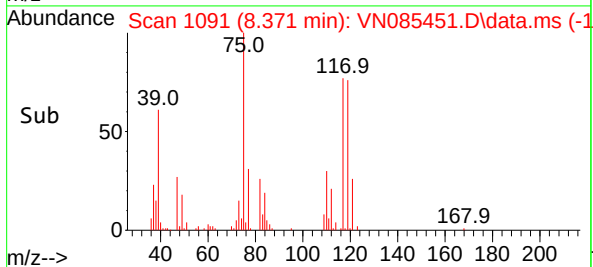
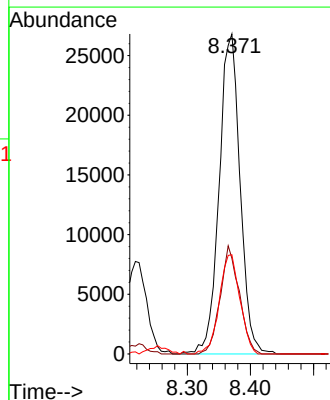
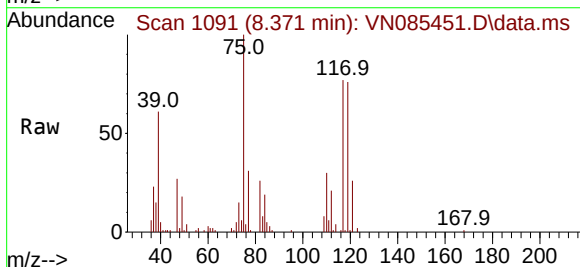
RT: 8.371 min Scan# 1091

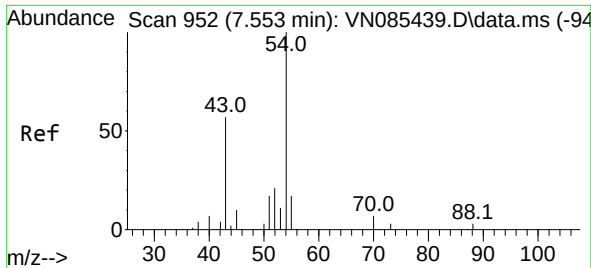
Delta R.T. 0.006 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Tgt Ion	Ratio	Lower	Upper
75	100		
110	30.8	16.5	49.5
77	30.6	24.4	36.6

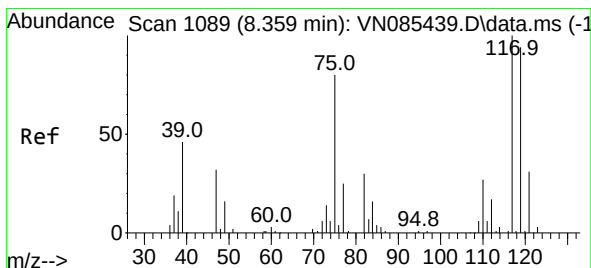
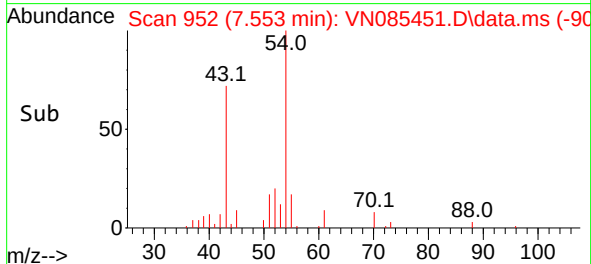
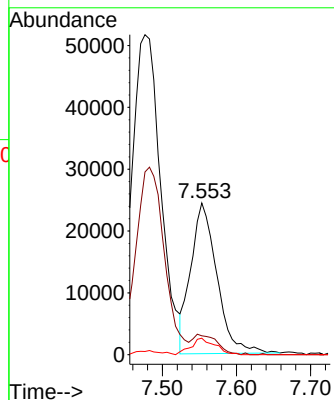
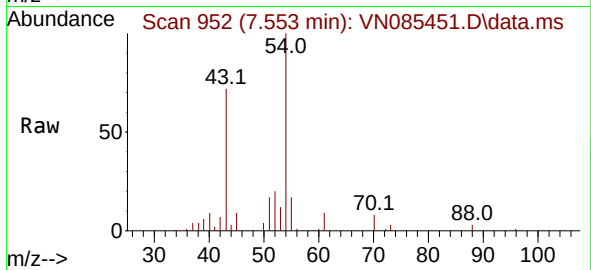




#37
Ethyl Acetate
Concen: 18.795 ug/l
RT: 7.553 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

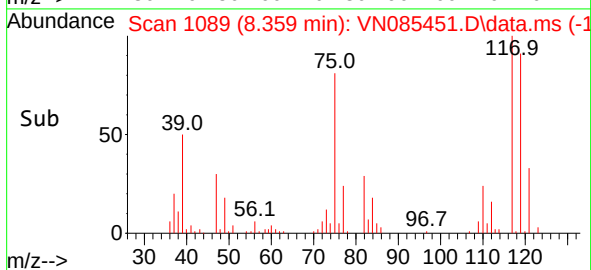
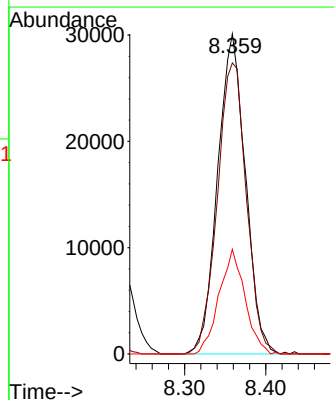
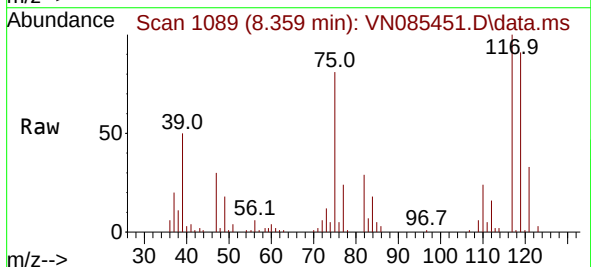
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

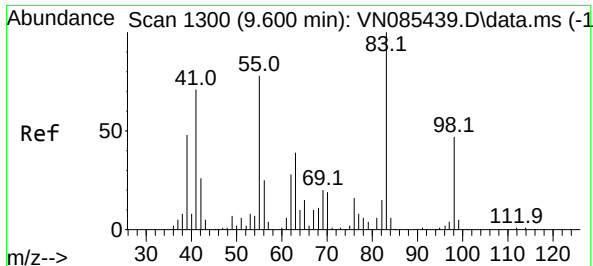
Tgt Ion: 43 Resp: 59684
Ion Ratio Lower Upper
43 100
61 12.3 10.9 16.3
70 10.1 7.5 11.3



#38
Carbon Tetrachloride
Concen: 19.911 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 117 Resp: 71714
Ion Ratio Lower Upper
117 100
119 91.0 75.4 113.2
121 32.7 24.6 37.0





#39

Methylcyclohexane

Concen: 20.011 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

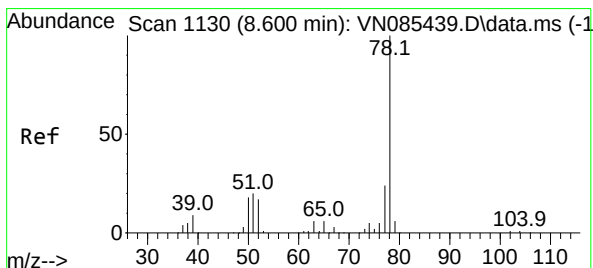
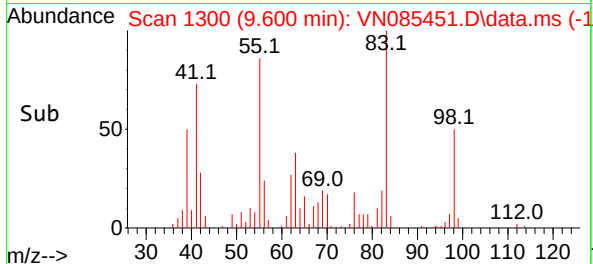
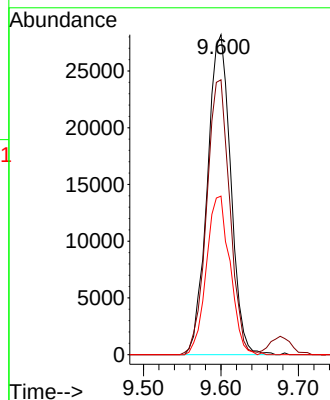
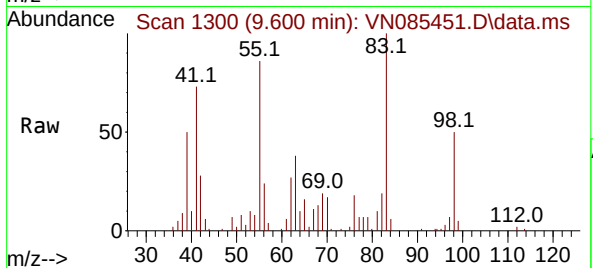
Tgt Ion: 83 Resp: 59161

Ion Ratio Lower Upper

83 100

55 85.9 62.6 94.0

98 49.6 37.7 56.5



#40

Benzene

Concen: 20.061 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085451.D

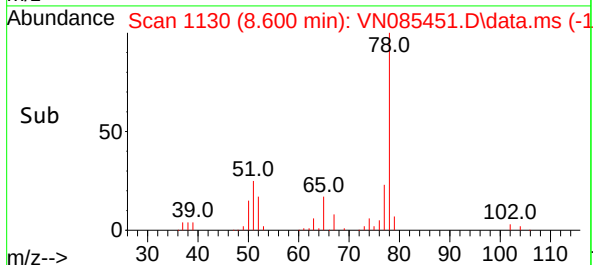
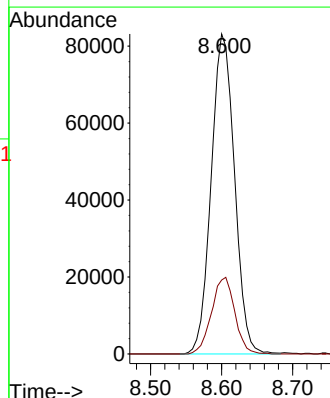
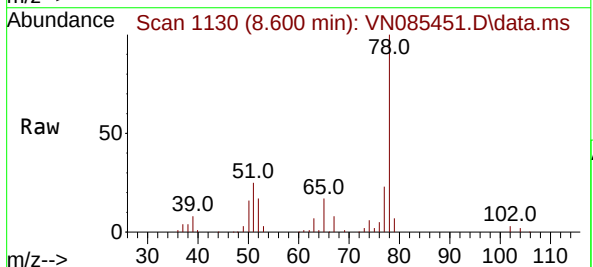
Acq: 15 Jan 2025 11:02

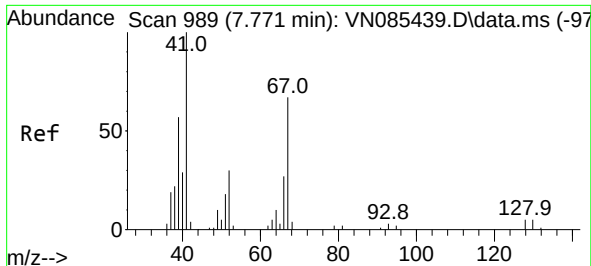
Tgt Ion: 78 Resp: 189640

Ion Ratio Lower Upper

78 100

77 23.1 19.0 28.6

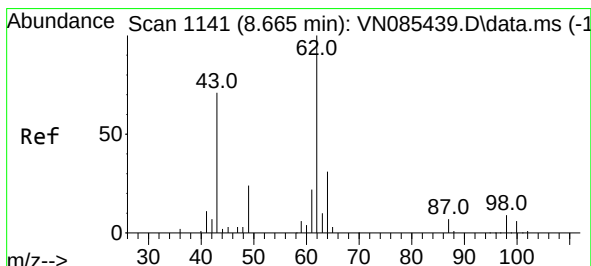
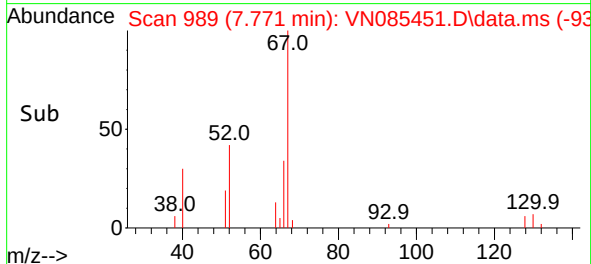
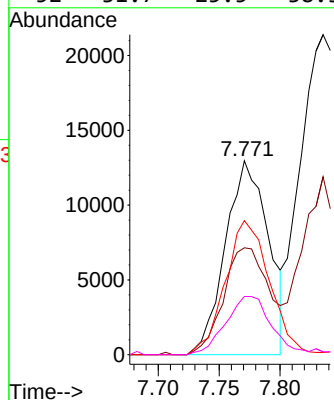
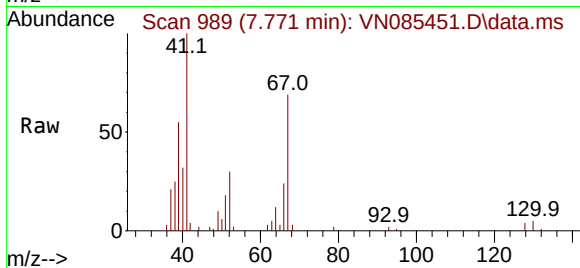




#41
Methacrylonitrile
Concen: 19.288 ug/l
RT: 7.771 min Scan# 911
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

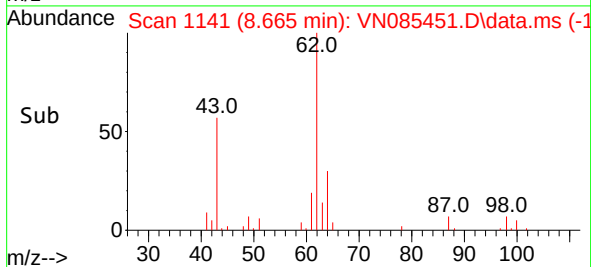
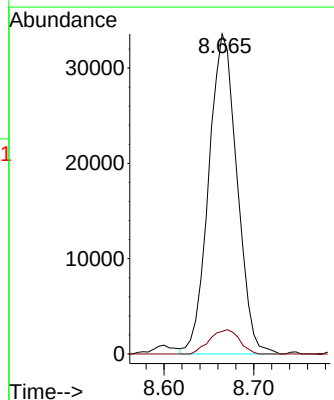
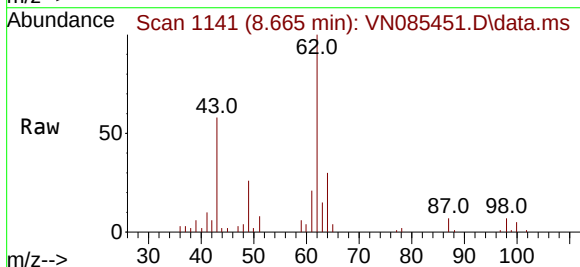
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

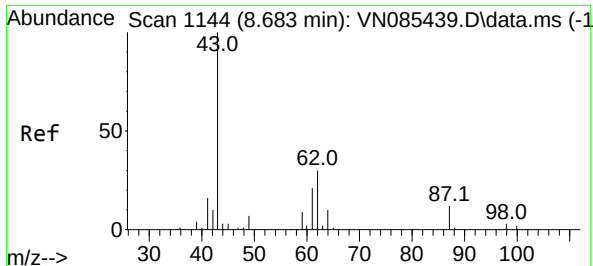
Tgt Ion:	41	Resp:	31866
Ion	Ratio	Lower	Upper
41	100		
39	58.3	46.0	69.0
67	71.3	57.4	86.2
52	31.7	25.5	38.3



#42
1,2-Dichloroethane
Concen: 20.692 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:	62	Resp:	73669
Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	17.0





#43

Isopropyl Acetate

Concen: 19.708 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

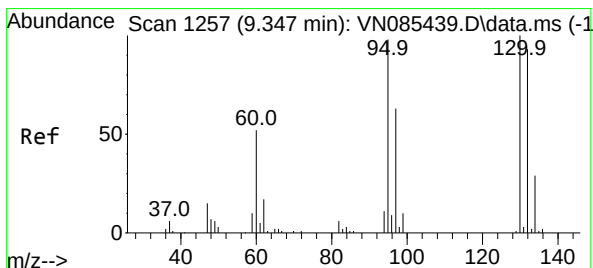
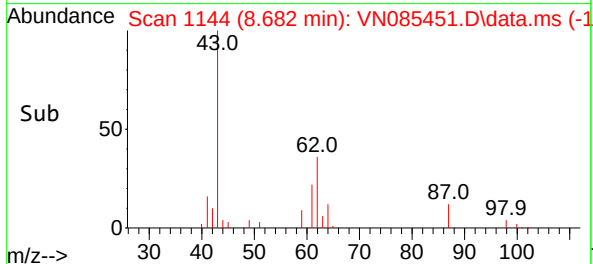
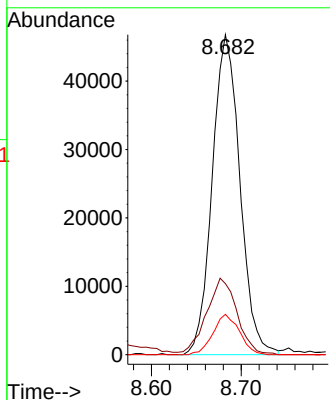
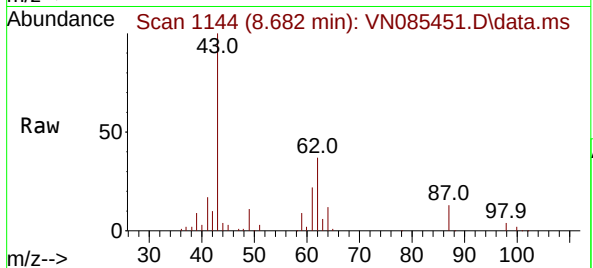
Tgt Ion: 43 Resp: 100283

Ion Ratio Lower Upper

43 100

61 26.5 20.7 31.1

87 12.0 9.8 14.8



#44

Trichloroethene

Concen: 20.145 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.000 min

Lab File: VN085451.D

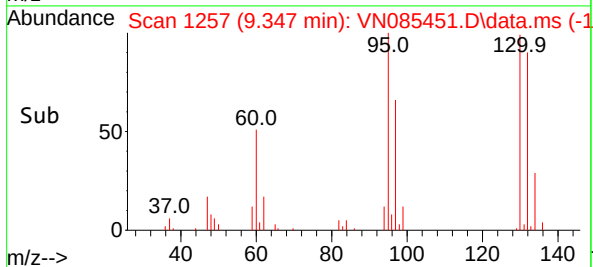
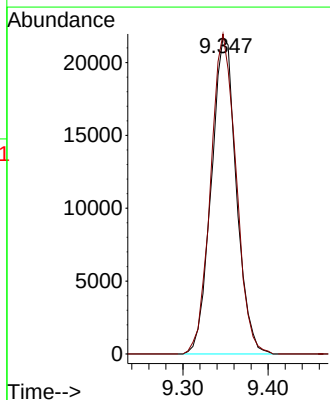
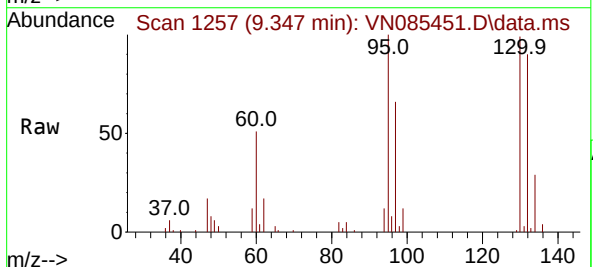
Acq: 15 Jan 2025 11:02

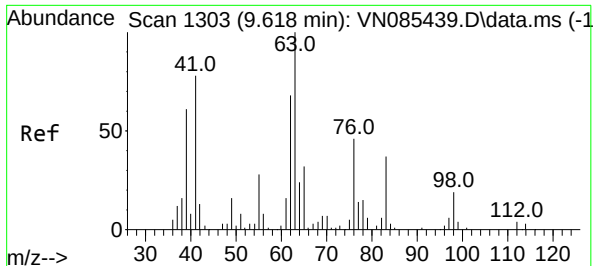
Tgt Ion:130 Resp: 44329

Ion Ratio Lower Upper

130 100

95 101.2 0.0 195.8





#45

1,2-Dichloropropane

Concen: 20.167 ug/l

RT: 9.618 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

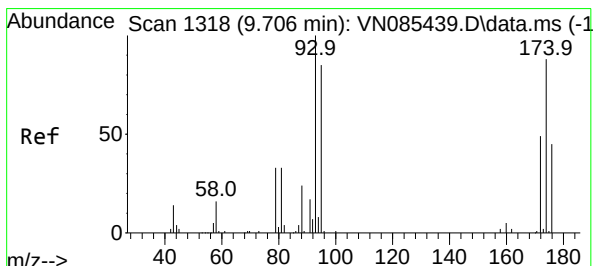
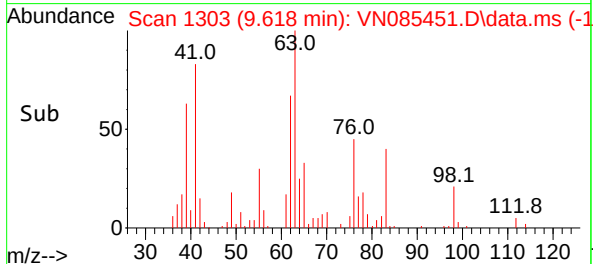
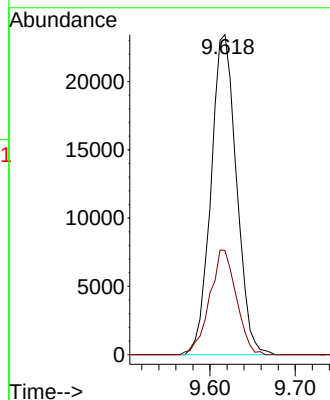
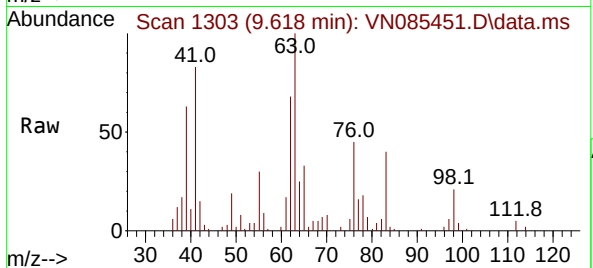
VN0115WBSD01

Tgt Ion: 63 Resp: 48696

Ion Ratio Lower Upper

63 100

65 32.5 25.6 38.4



#46

Dibromomethane

Concen: 19.561 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

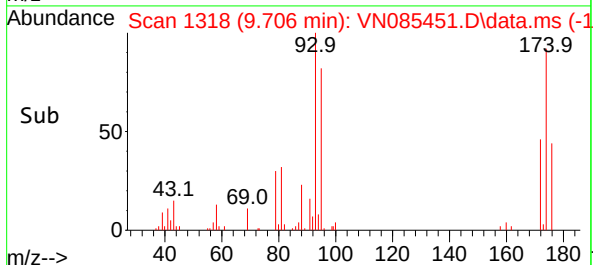
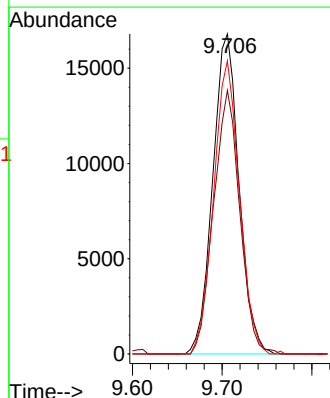
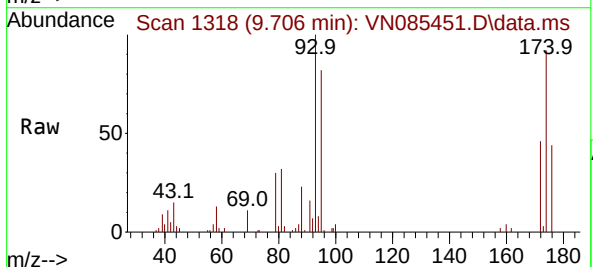
Tgt Ion: 93 Resp: 34080

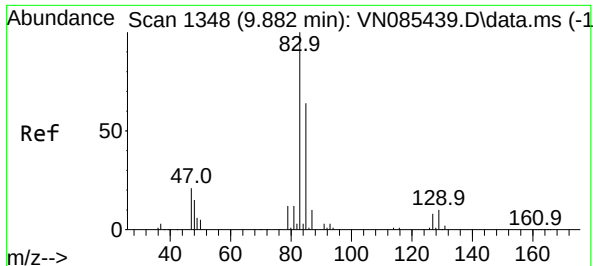
Ion Ratio Lower Upper

93 100

95 82.2 64.7 97.1

174 90.2 69.0 103.4

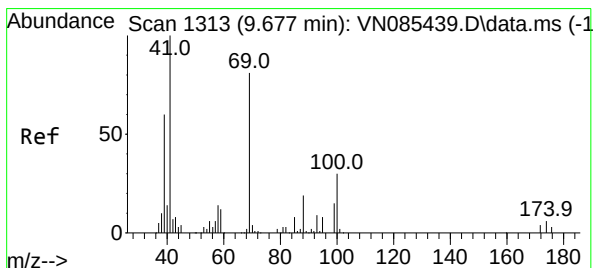
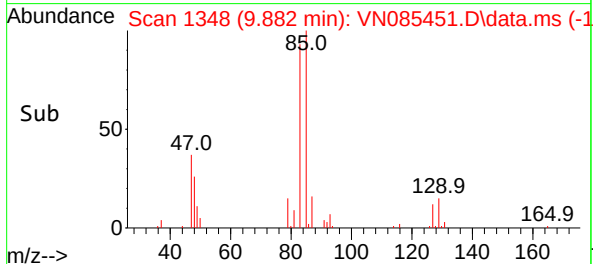
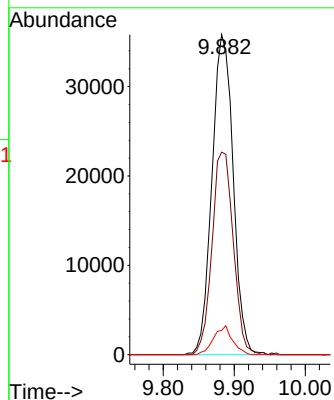
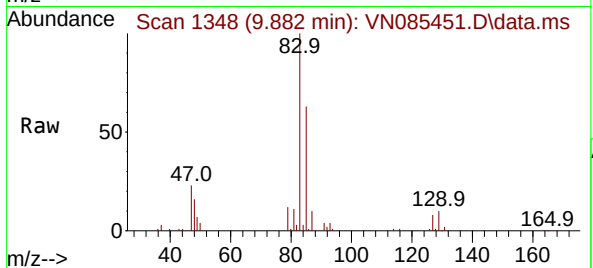




#47
Bromodichloromethane
Concen: 20.909 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. 0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

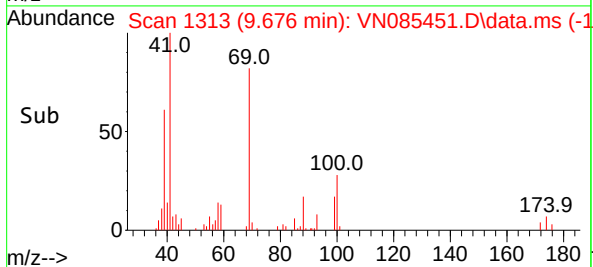
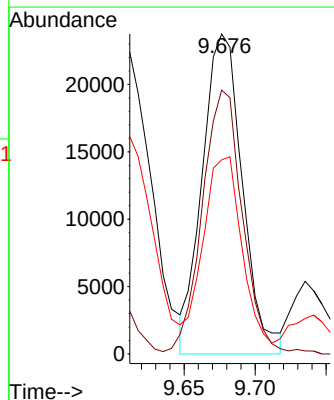
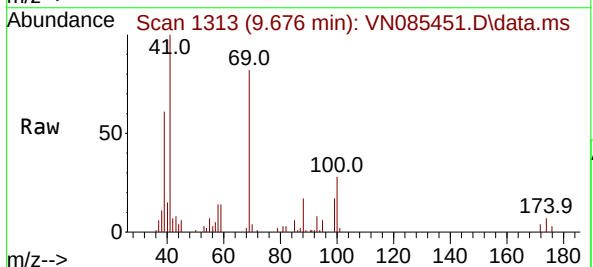
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

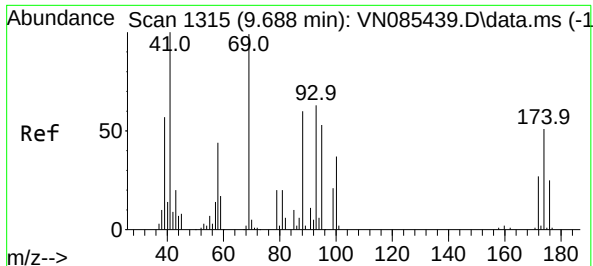
Tgt Ion: 83 Resp: 74218
Ion Ratio Lower Upper
83 100
85 63.3 51.2 76.8
127 7.5 6.5 9.7



#48
Methyl methacrylate
Concen: 20.374 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.001 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 41 Resp: 46655
Ion Ratio Lower Upper
41 100
69 82.9 64.7 97.1
39 61.1 49.0 73.6





#49

1,4-Dioxane

Concen: 388.550 ug/l

RT: 9.688 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

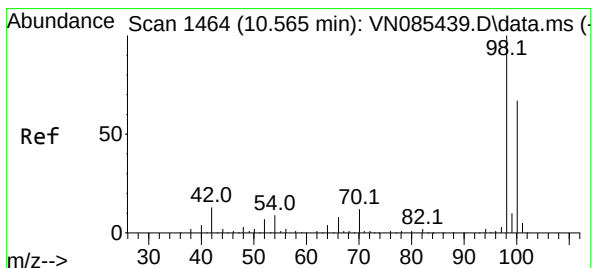
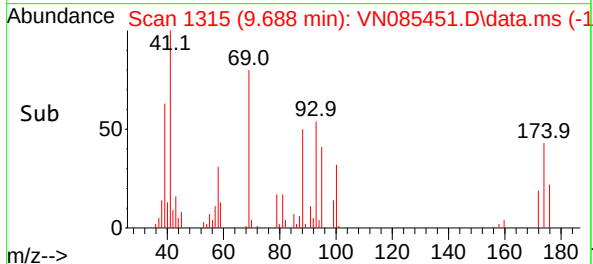
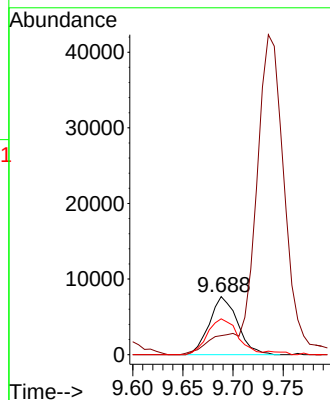
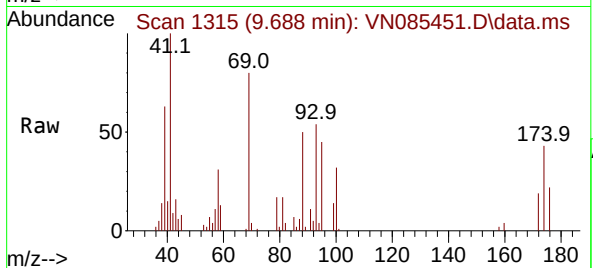
Tgt Ion: 88 Resp: 14983

Ion Ratio Lower Upper

88 100

43 0.0 26.6 39.8#

58 66.8 59.5 89.3



#50

Toluene-d8

Concen: 50.102 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085451.D

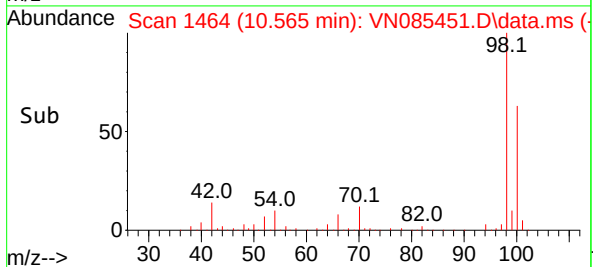
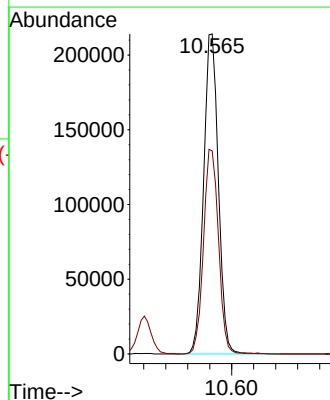
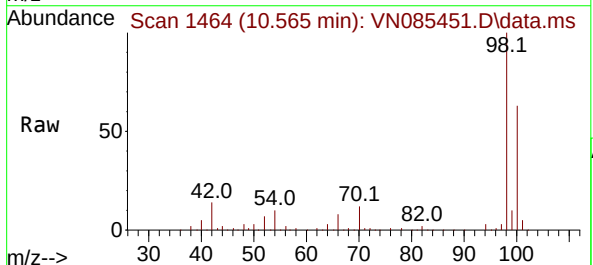
Acq: 15 Jan 2025 11:02

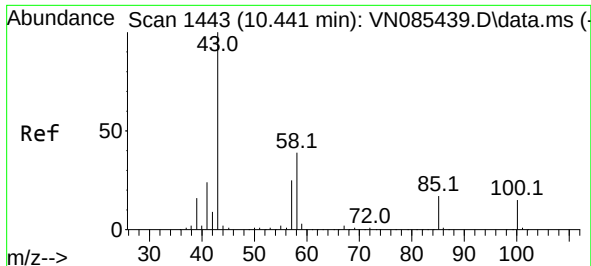
Tgt Ion: 98 Resp: 399040

Ion Ratio Lower Upper

98 100

100 64.8 52.2 78.4

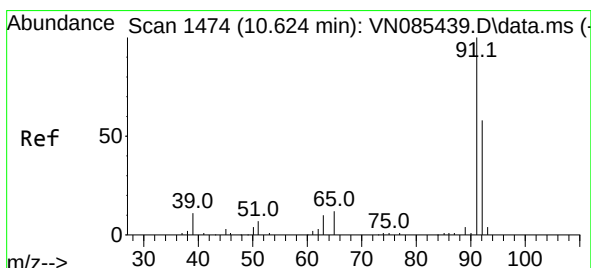
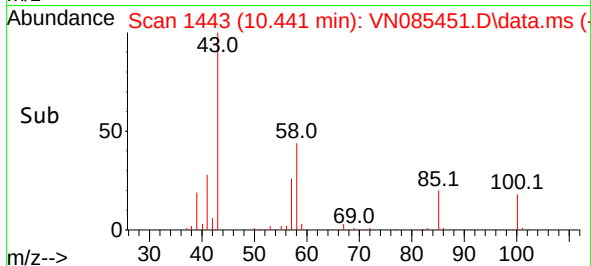
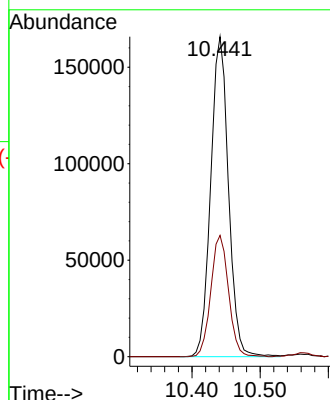
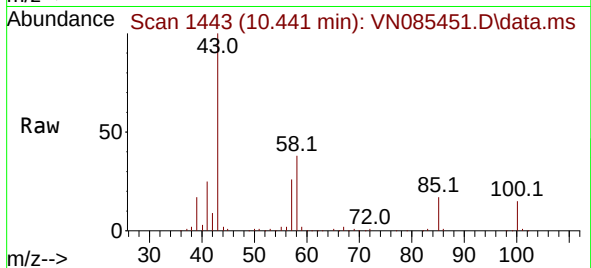




#51
4-Methyl-2-Pentanone
Concen: 101.808 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

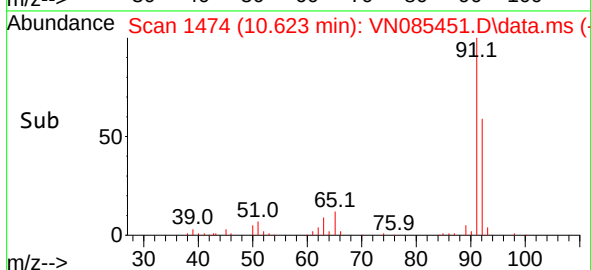
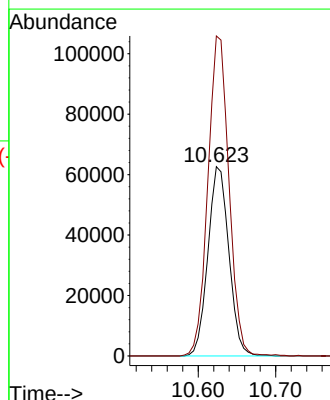
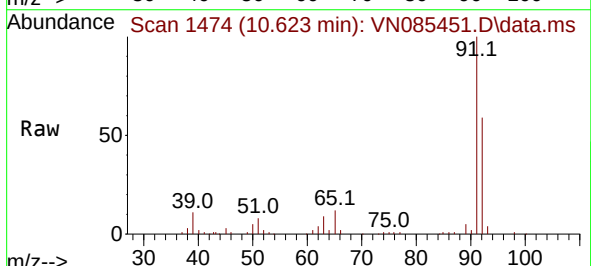
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

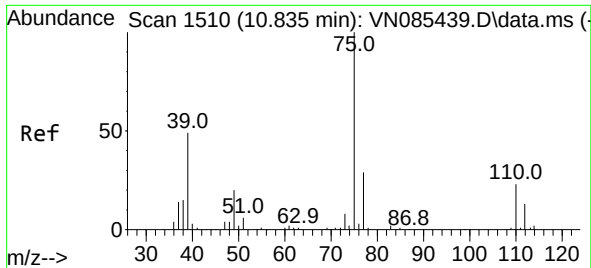
Tgt Ion: 43 Resp: 300611
Ion Ratio Lower Upper
43 100
58 37.8 30.5 45.7



#52
Toluene
Concen: 21.476 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.001 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 92 Resp: 117631
Ion Ratio Lower Upper
92 100
91 169.9 139.2 208.8

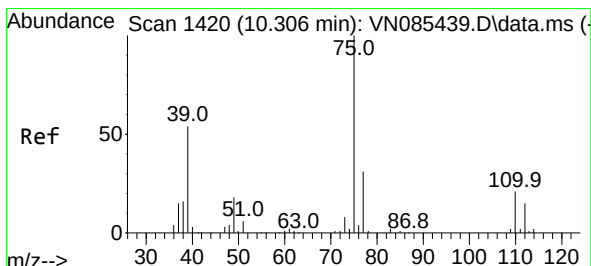
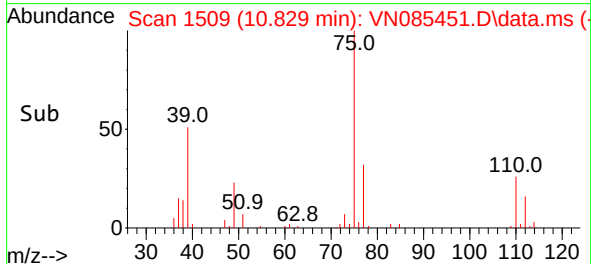
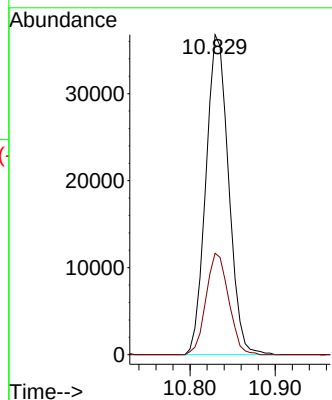
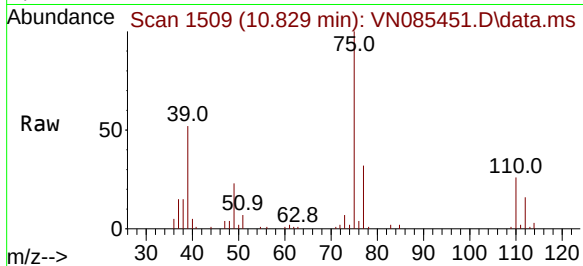




#53
 t-1,3-Dichloropropene
 Concen: 20.276 ug/l
 RT: 10.829 min Scan# 1509
 Delta R.T. -0.006 min
 Lab File: VN085451.D
 Acq: 15 Jan 2025 11:02

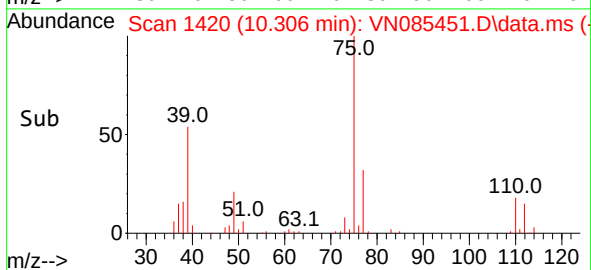
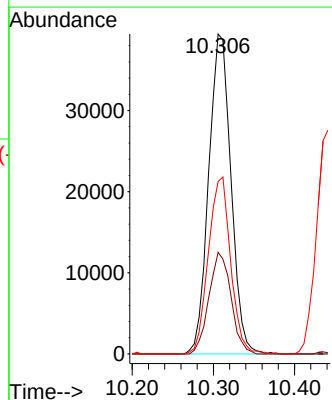
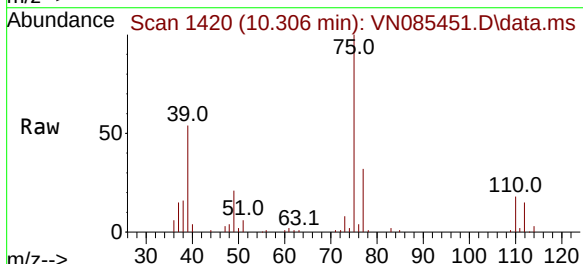
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBSD01

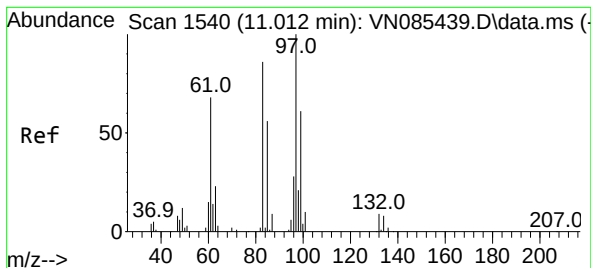
Tgt Ion: 75 Resp: 68014
 Ion Ratio Lower Upper
 75 100
 77 31.7 23.5 35.3



#54
 cis-1,3-Dichloropropene
 Concen: 20.973 ug/l
 RT: 10.306 min Scan# 1420
 Delta R.T. -0.000 min
 Lab File: VN085451.D
 Acq: 15 Jan 2025 11:02

Tgt Ion: 75 Resp: 75146
 Ion Ratio Lower Upper
 75 100
 77 31.7 25.0 37.4
 39 53.9 43.1 64.7

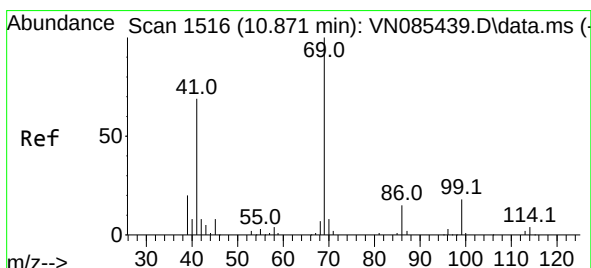
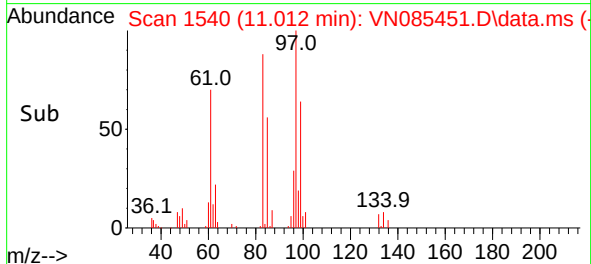
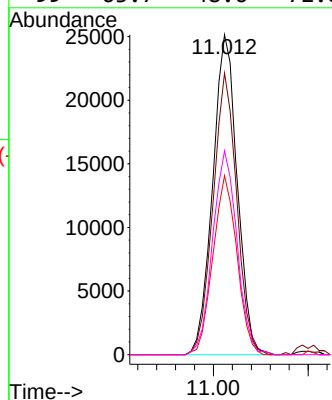
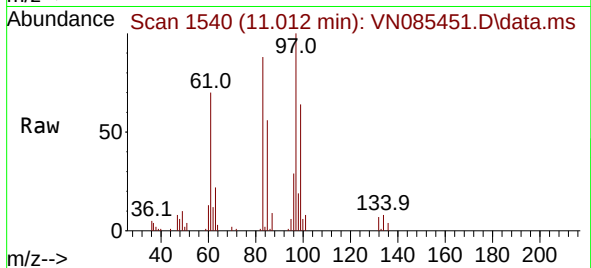




#55
1,1,2-Trichloroethane
Concen: 20.861 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

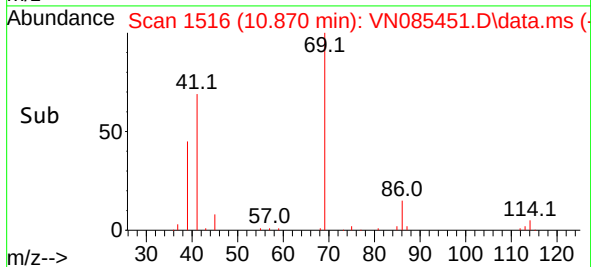
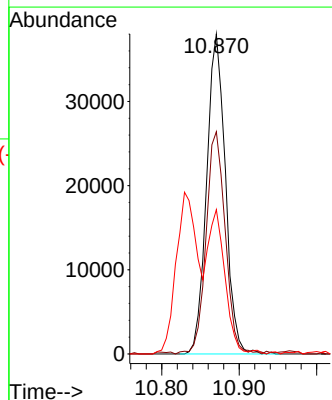
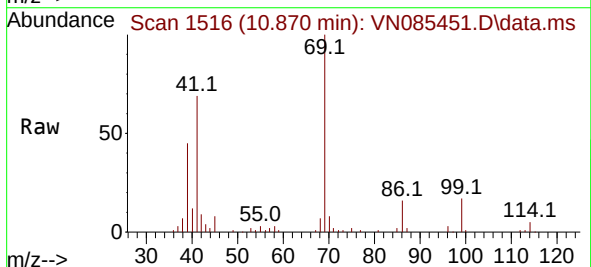
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

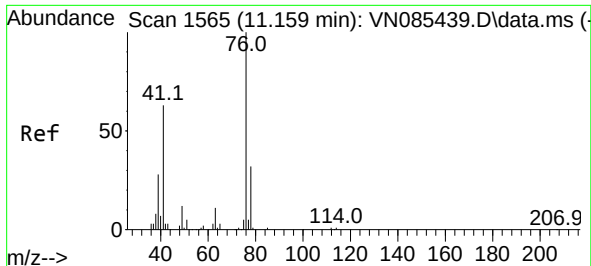
Tgt Ion: 97	Resp: 45220
Ion Ratio	Lower Upper
97 100	
83 88.0	69.0 103.6
85 55.9	44.6 66.8
99 63.7	48.6 72.8



#56
Ethyl methacrylate
Concen: 18.769 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.001 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 69	Resp: 63954
Ion Ratio	Lower Upper
69 100	
41 71.0	54.6 82.0
39 40.3	32.4 48.6





#57

1,3-Dichloropropane

Concen: 20.424 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN085451.D

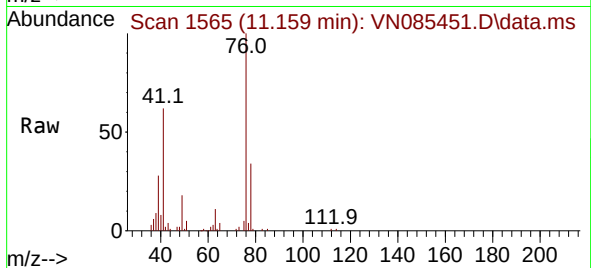
Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

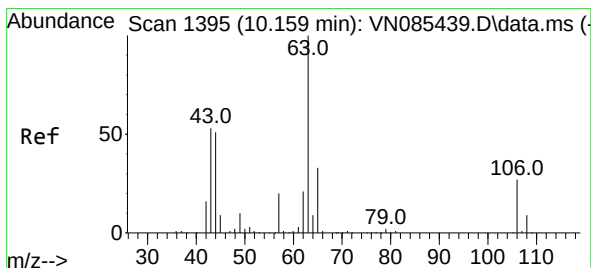
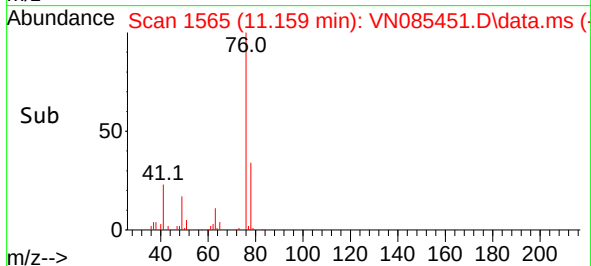
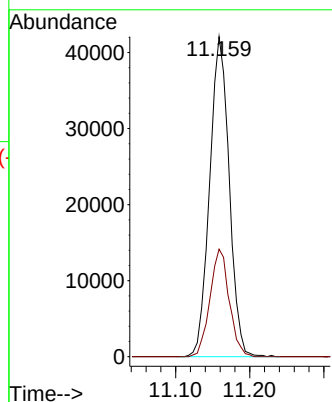


Tgt Ion: 76 Resp: 76979

Ion Ratio Lower Upper

76 100

78 33.2 25.6 38.4



#58

2-Chloroethyl Vinyl ether

Concen: 107.782 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN085451.D

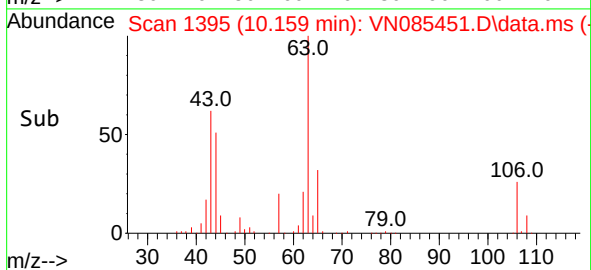
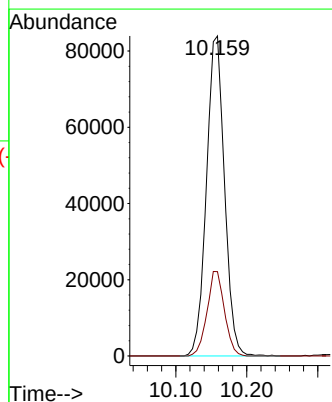
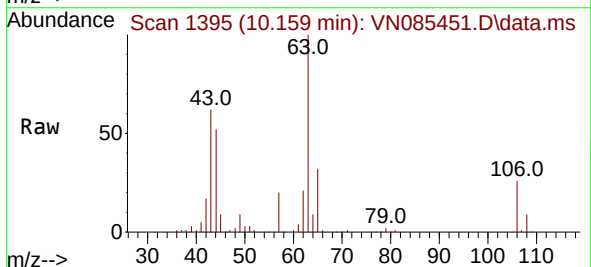
Acq: 15 Jan 2025 11:02

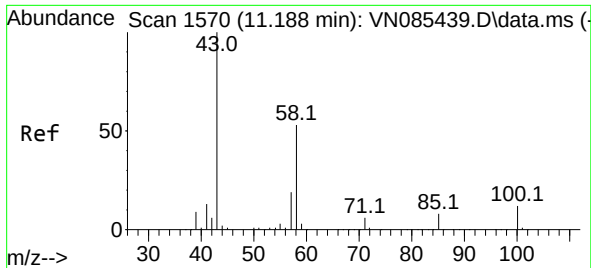
Tgt Ion: 63 Resp: 148262

Ion Ratio Lower Upper

63 100

106 25.5 21.6 32.4

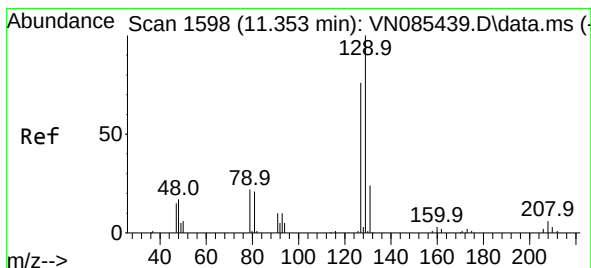
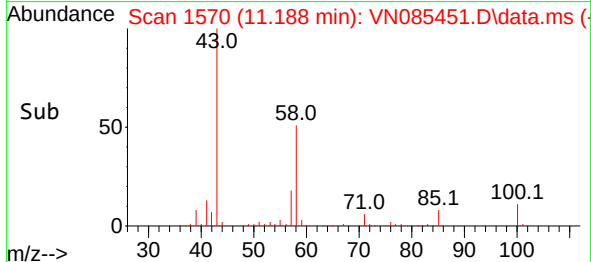
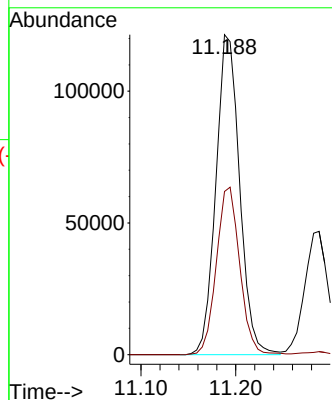
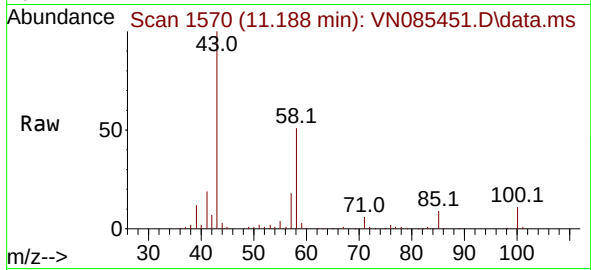




#59
2-Hexanone
Concen: 101.890 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

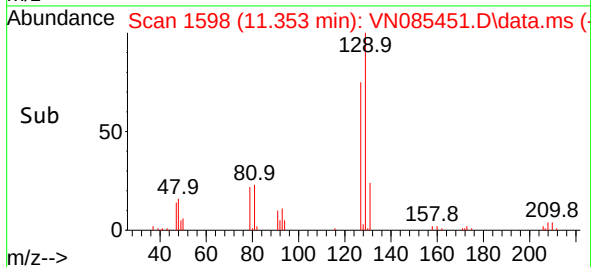
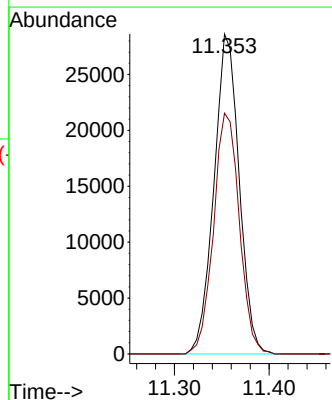
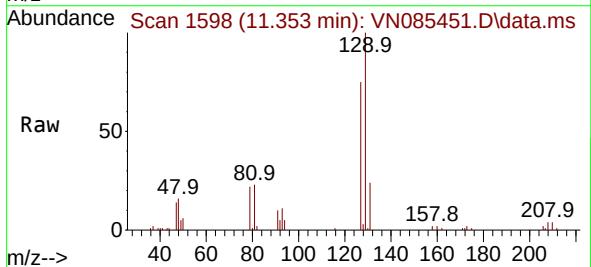
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

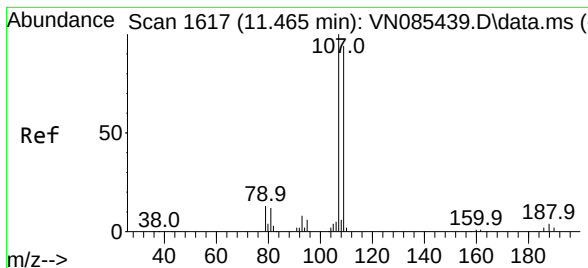
Tgt Ion: 43 Resp: 211689
Ion Ratio Lower Upper
43 100
58 51.5 26.2 78.6



#60
Dibromochloromethane
Concen: 20.236 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:129 Resp: 52957
Ion Ratio Lower Upper
129 100
127 76.8 38.6 115.8

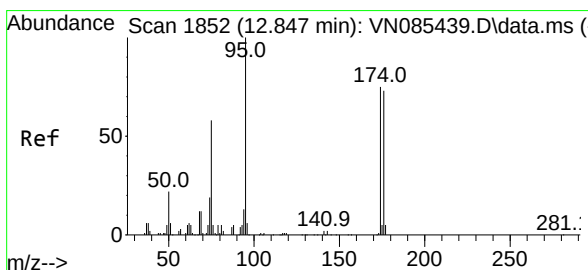
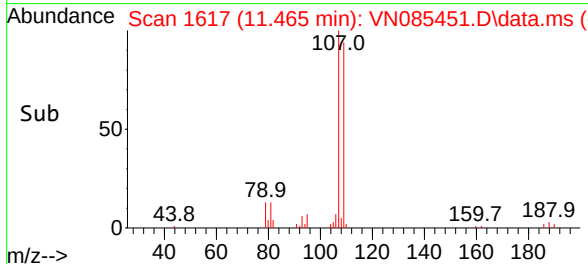
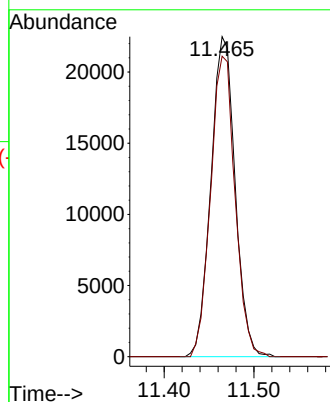
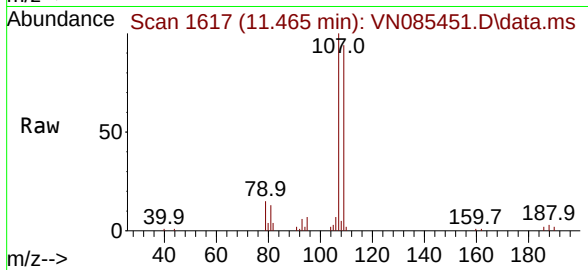




#61
1,2-Dibromoethane
Concen: 19.533 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

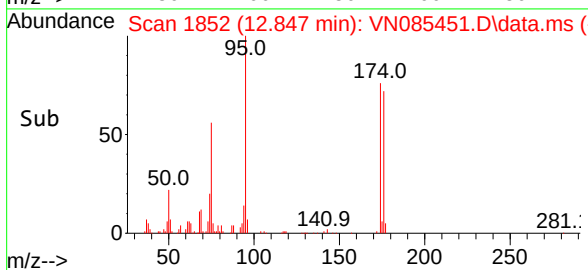
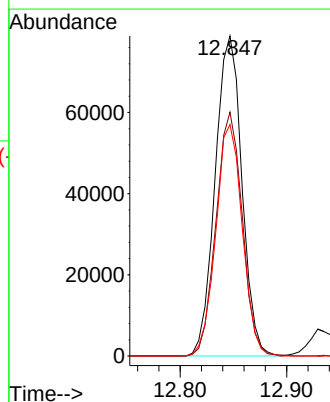
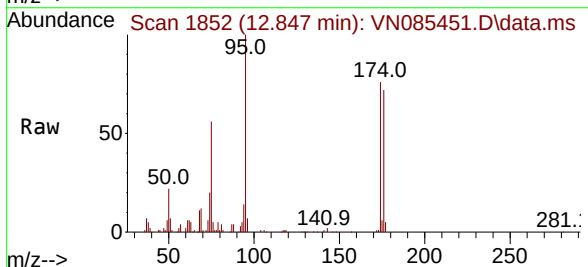
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

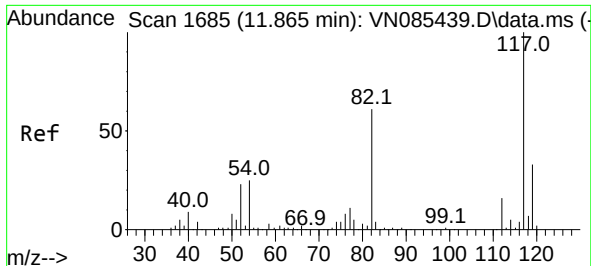
Tgt Ion:107 Resp: 42146
Ion Ratio Lower Upper
107 100
109 94.7 75.9 113.9



#62
4-Bromofluorobenzene
Concen: 50.364 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 95 Resp: 137216
Ion Ratio Lower Upper
95 100
174 74.8 0.0 145.0
176 71.6 0.0 142.4

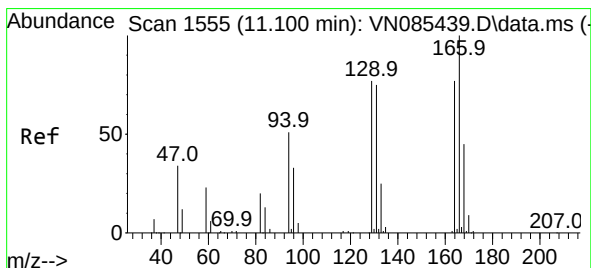
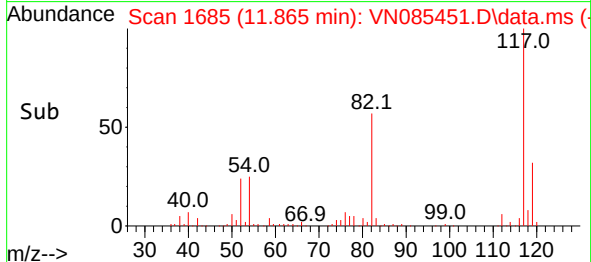
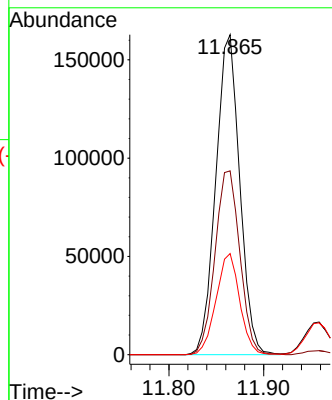
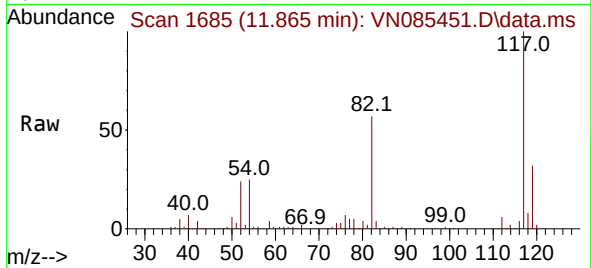




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

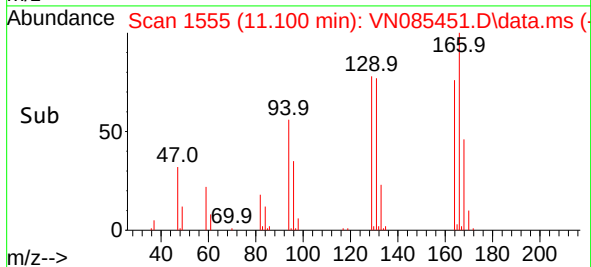
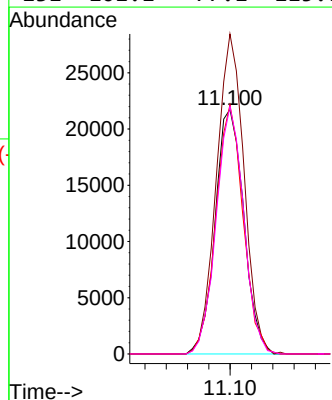
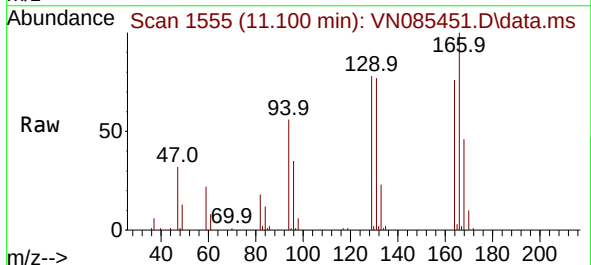
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

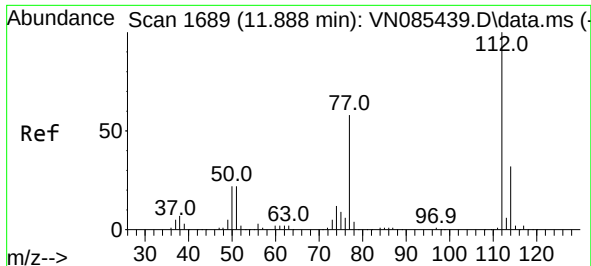
Tgt Ion:117 Resp: 286298
Ion Ratio Lower Upper
117 100
82 57.5 48.6 72.8
119 31.6 26.6 39.8



#64
Tetrachloroethene
Concen: 20.740 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:164 Resp: 40480
Ion Ratio Lower Upper
164 100
166 130.9 103.4 155.2
129 101.9 79.2 118.8
131 101.1 77.1 115.7

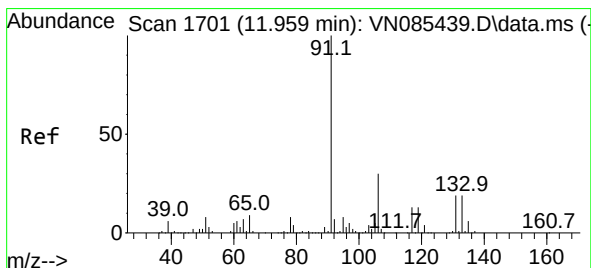
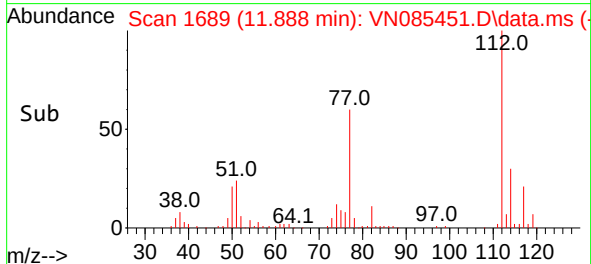
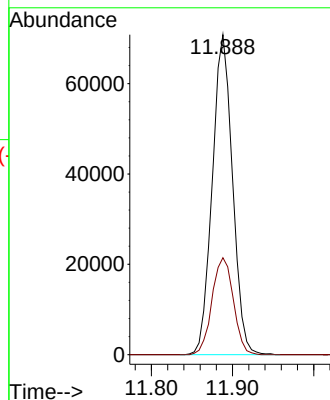
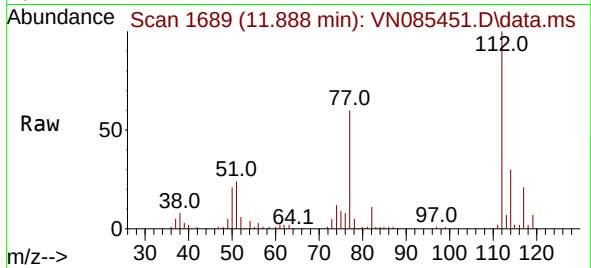




#65
Chlorobenzene
Concen: 19.546 ug/l
RT: 11.888 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

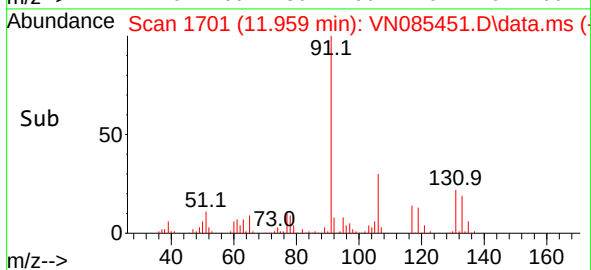
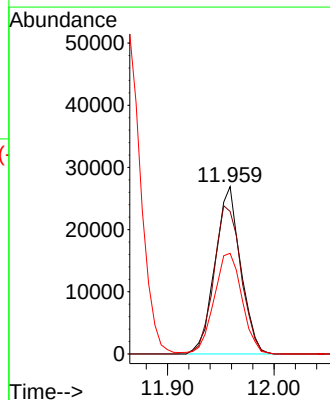
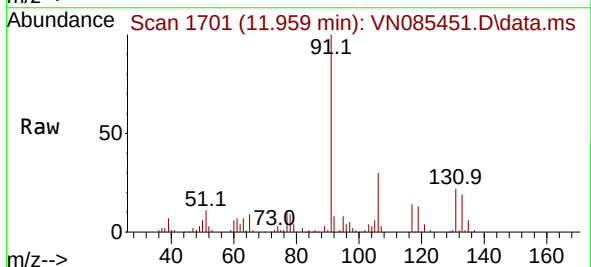
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

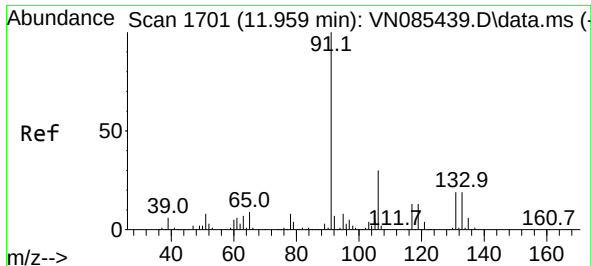
Tgt Ion:112 Resp: 122590
Ion Ratio Lower Upper
112 100
114 30.3 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 19.484 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:131 Resp: 44850
Ion Ratio Lower Upper
131 100
133 94.6 47.4 142.3
119 65.9 33.1 99.5

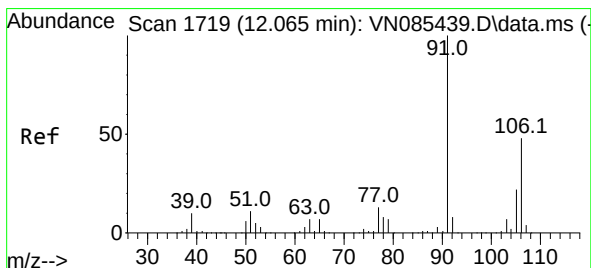
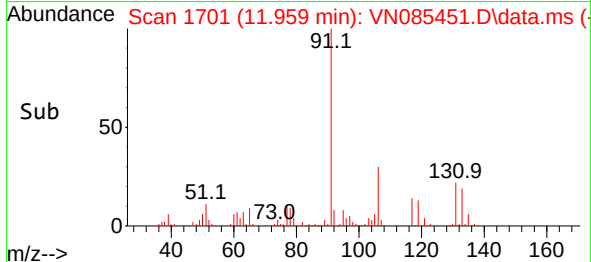
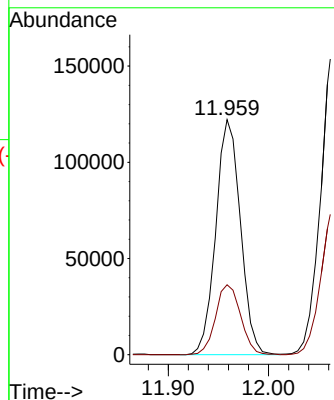
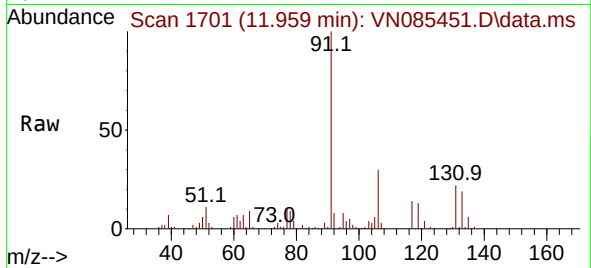




#67
Ethyl Benzene
Concen: 20.381 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

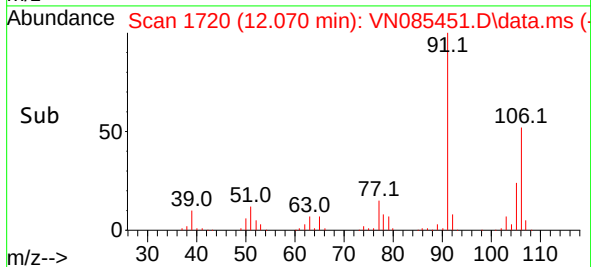
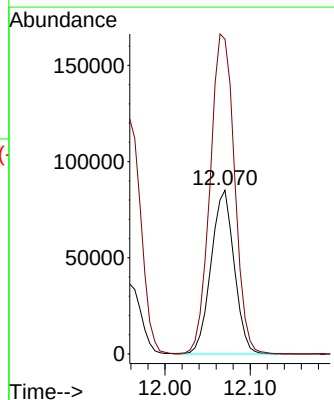
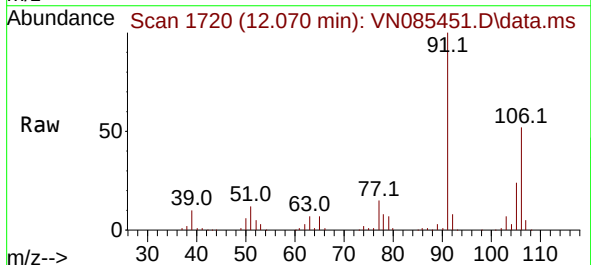
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

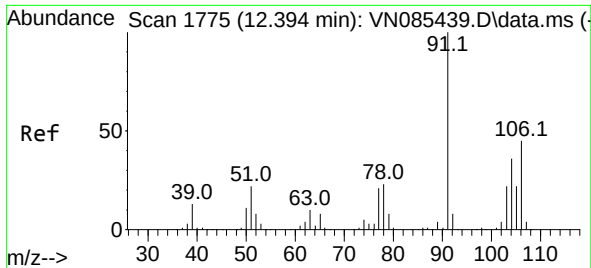
Tgt Ion: 91 Resp: 208196
Ion Ratio Lower Upper
91 100
106 29.8 23.8 35.8



#68
m/p-Xylenes
Concen: 42.515 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:106 Resp: 160511
Ion Ratio Lower Upper
106 100
91 206.6 167.7 251.5

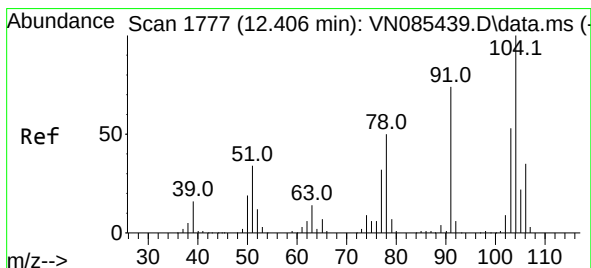
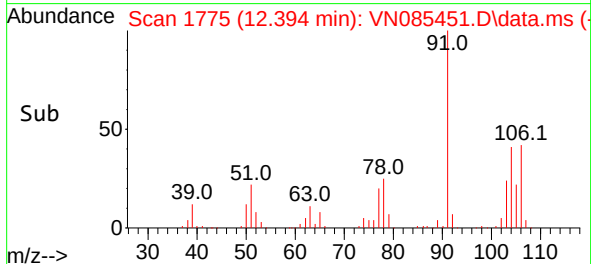
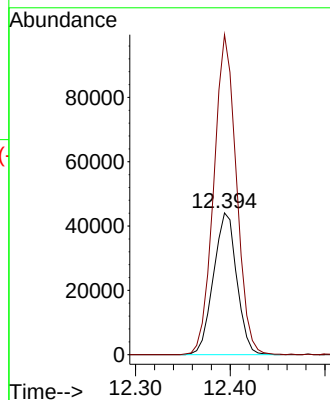
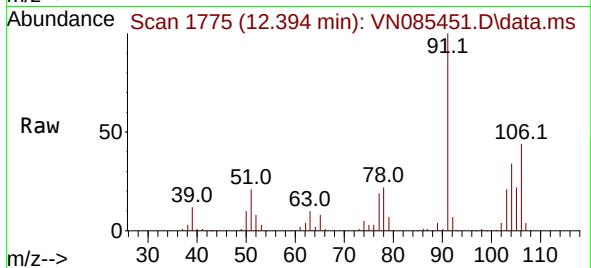




#69
o-Xylene
Concen: 20.928 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

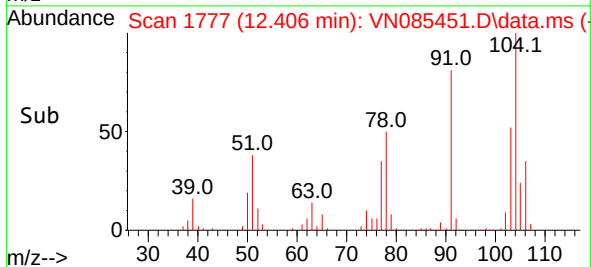
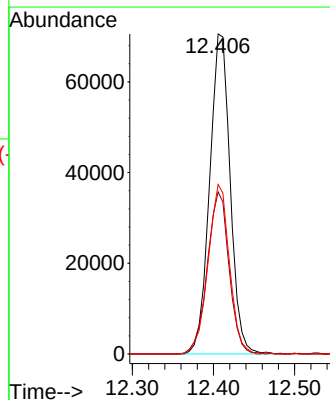
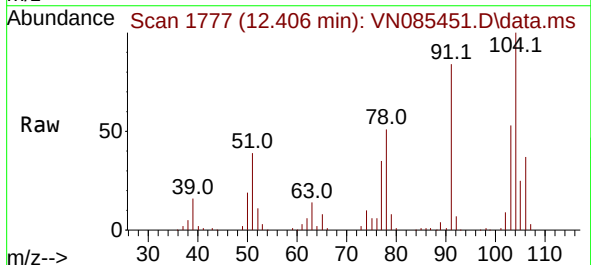
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

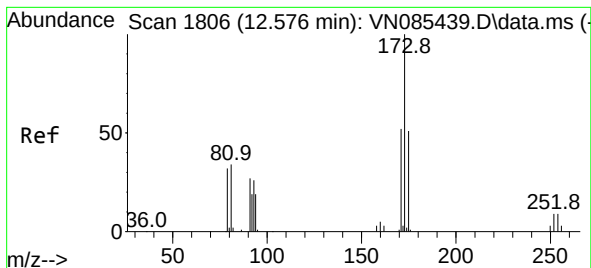
Tgt Ion:106 Resp: 75509
Ion Ratio Lower Upper
106 100
91 219.1 110.4 331.2



#70
Styrene
Concen: 20.788 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:104 Resp: 124126
Ion Ratio Lower Upper
104 100
78 53.5 42.5 63.7
103 54.9 43.8 65.8





#71

Bromoform

Concen: 20.643 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

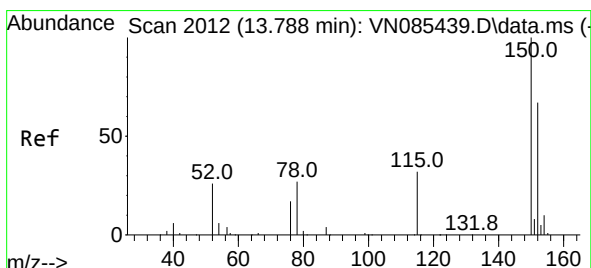
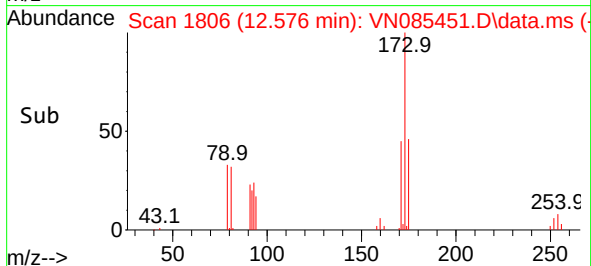
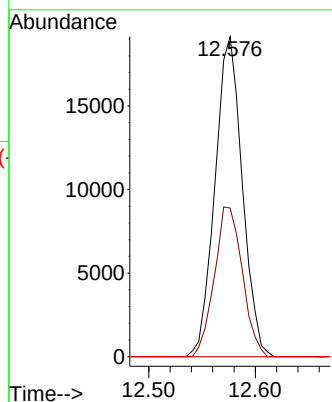
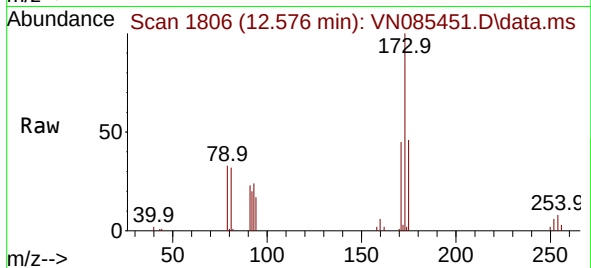
Tgt Ion:173 Resp: 34000

Ion Ratio Lower Upper

173 100

175 48.0 24.4 73.2

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

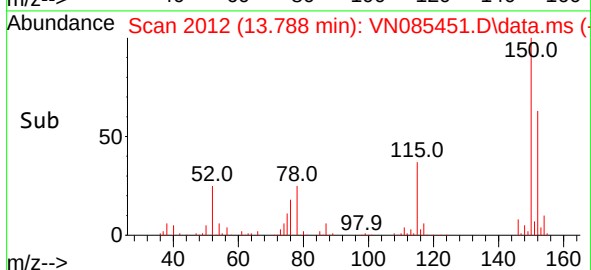
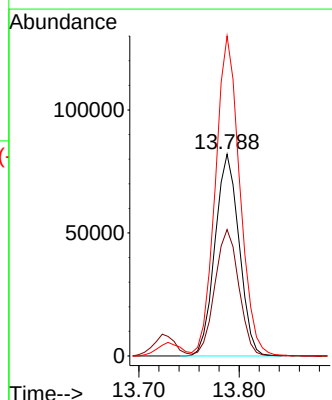
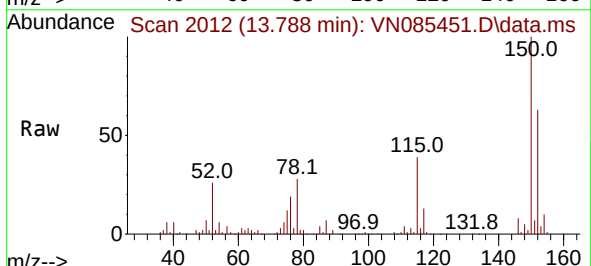
Tgt Ion:152 Resp: 136502

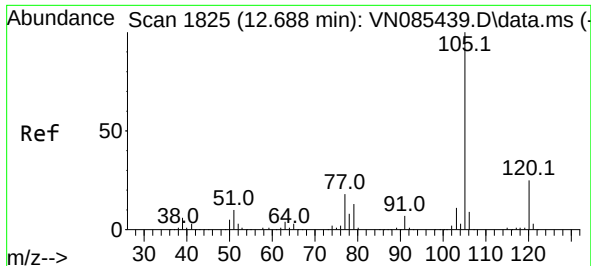
Ion Ratio Lower Upper

152 100

115 62.5 31.1 93.3

150 160.9 0.0 343.6

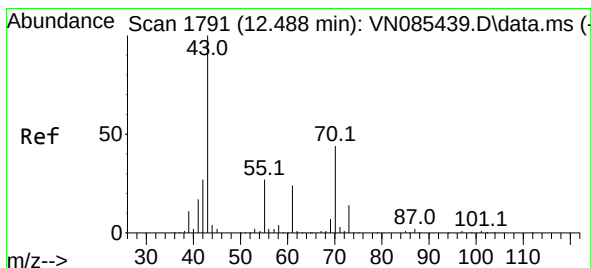
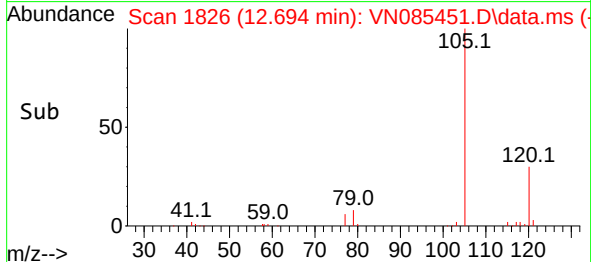
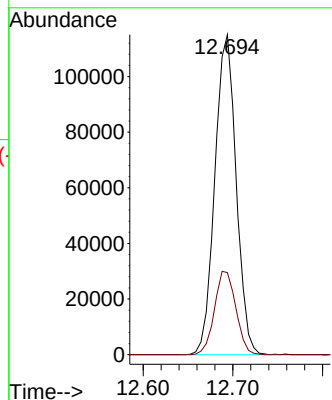
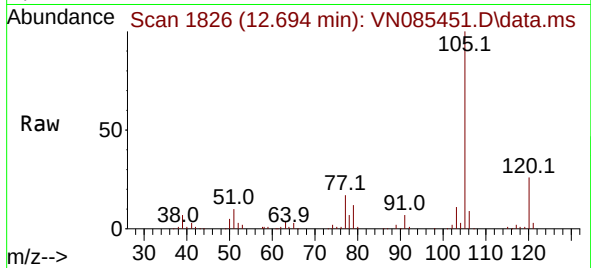




#73
Isopropylbenzene
Concen: 20.582 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

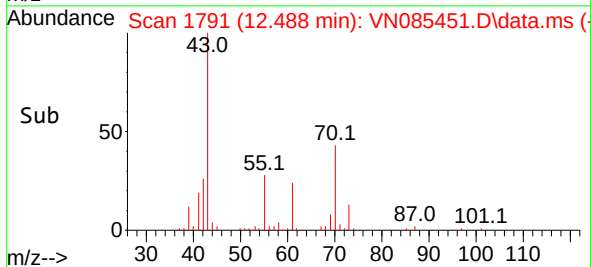
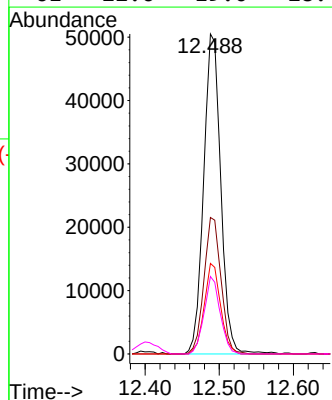
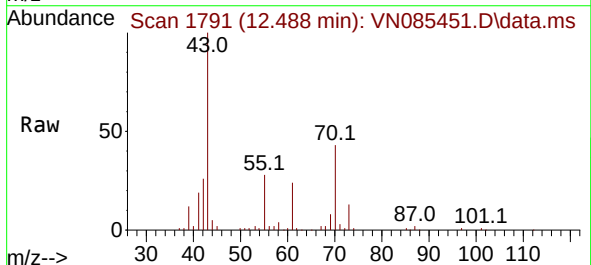
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

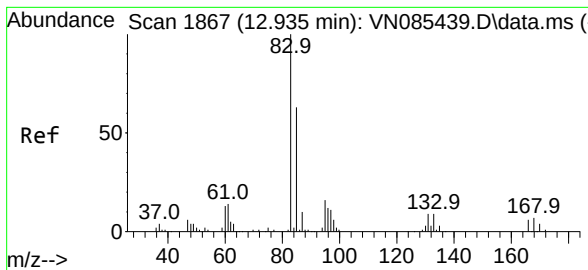
Tgt Ion:105 Resp: 189617
Ion Ratio Lower Upper
105 100
120 26.1 12.8 38.3



#74
N-ethyl acetate
Concen: 19.619 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 43 Resp: 81241
Ion Ratio Lower Upper
43 100
70 42.3 34.0 51.0
55 26.9 21.4 32.2
61 22.6 19.0 28.4

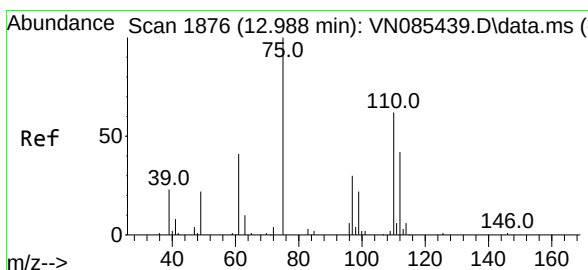
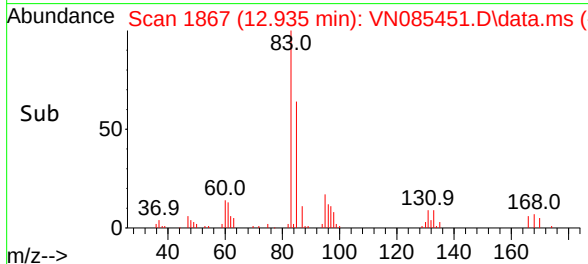
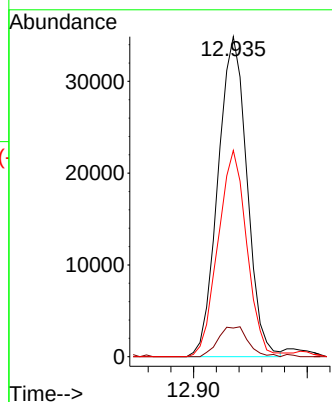
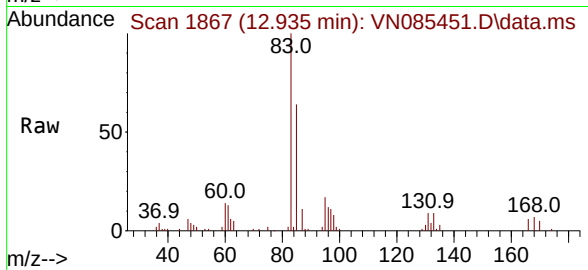




#75
1,1,2,2-Tetrachloroethane
Concen: 19.012 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

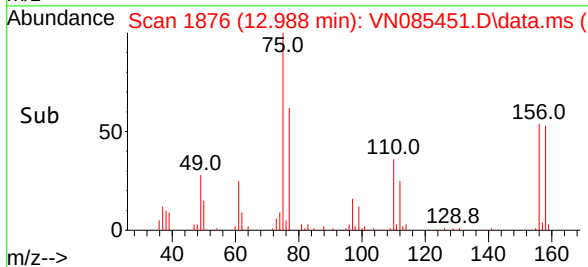
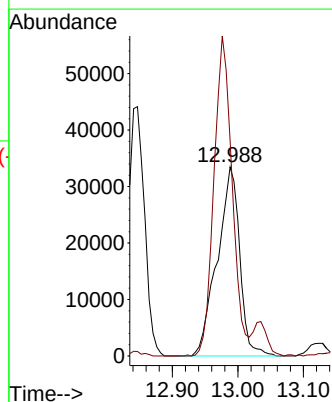
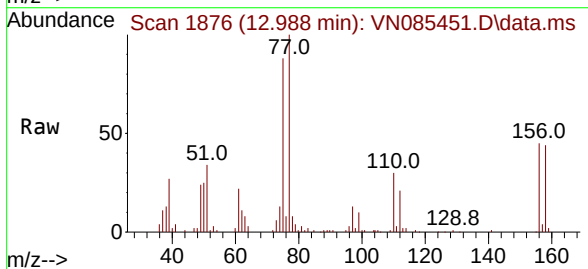
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

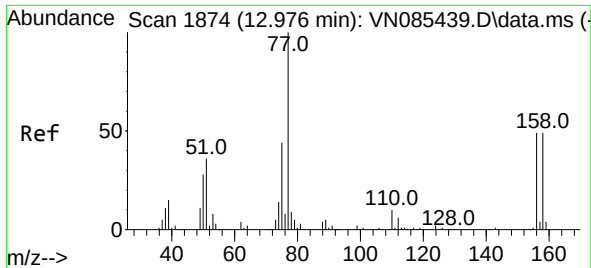
Tgt Ion: 83 Resp: 61871
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.4
85 63.9 32.2 96.6



#76
1,2,3-Trichloropropane
Concen: 28.643 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 75 Resp: 79469
Ion Ratio Lower Upper
75 100
77 137.8 109.7 329.2

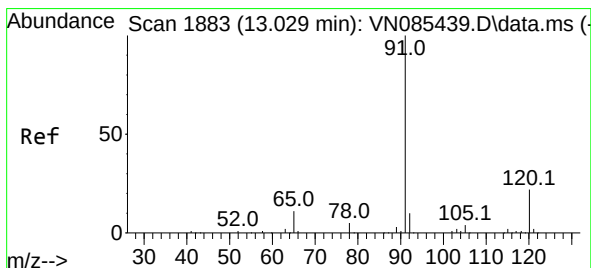
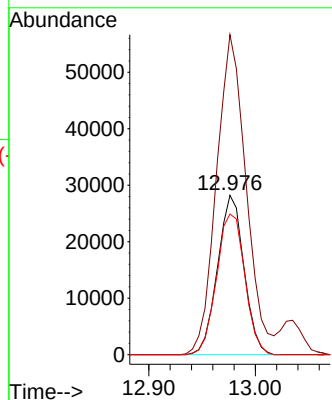
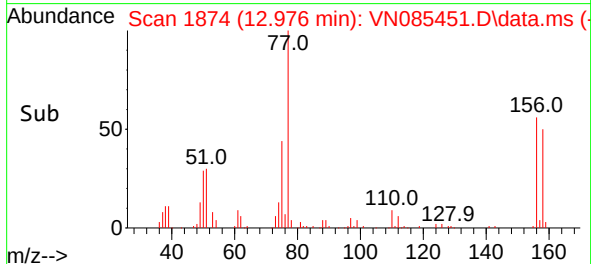
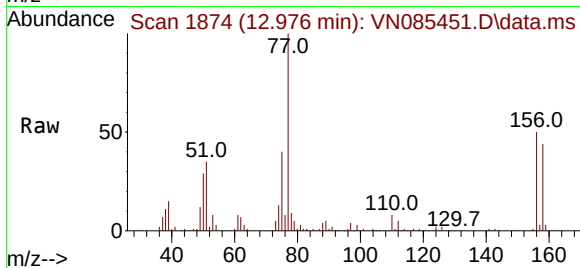




#77
Bromobenzene
Concen: 20.145 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

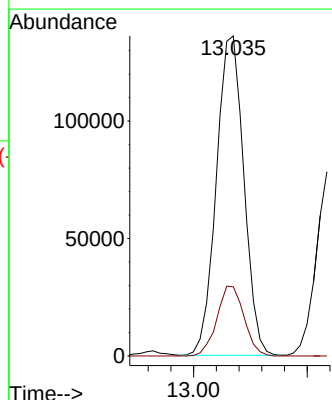
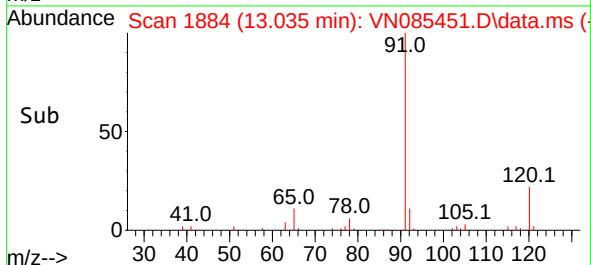
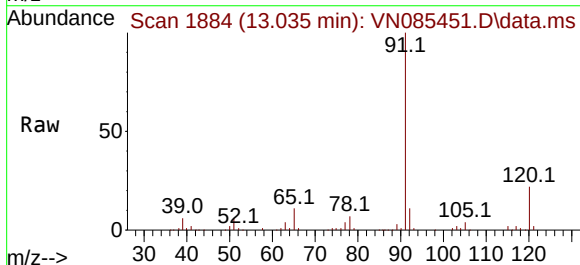
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

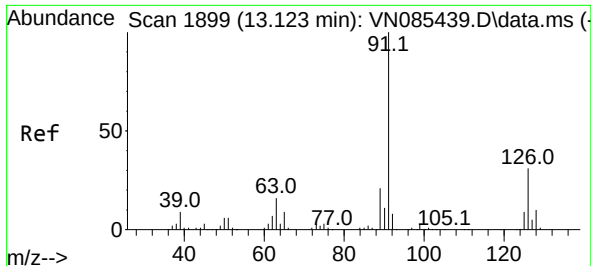
Tgt Ion:156 Resp: 48489
Ion Ratio Lower Upper
156 100
77 225.8 114.1 342.4
158 94.1 48.9 146.8



#78
n-propylbenzene
Concen: 20.981 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 91 Resp: 228827
Ion Ratio Lower Upper
91 100
120 21.5 10.9 32.6

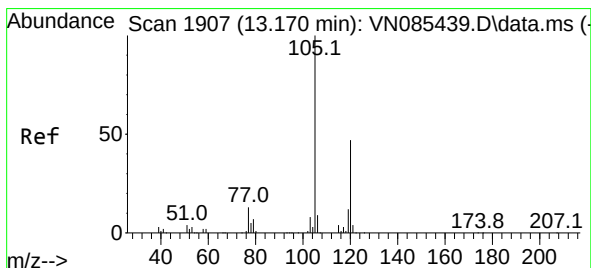
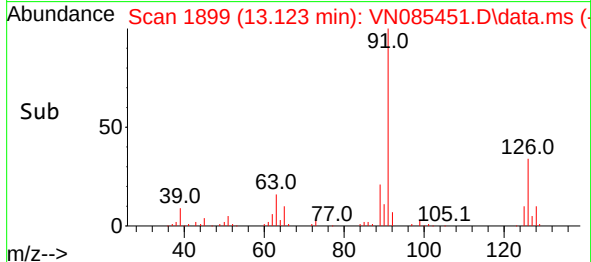
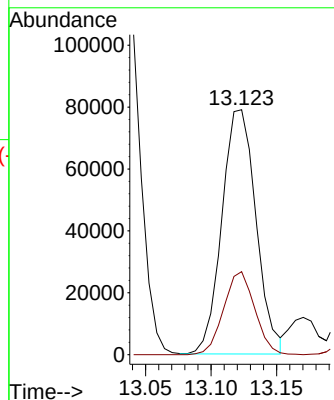
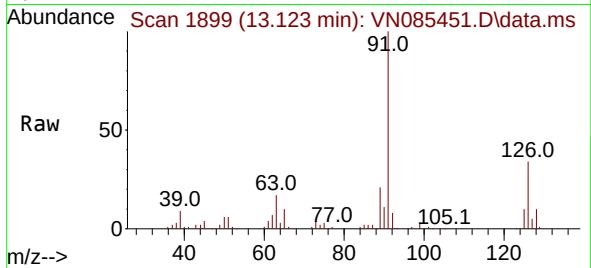




#79
2-Chlorotoluene
Concen: 20.272 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

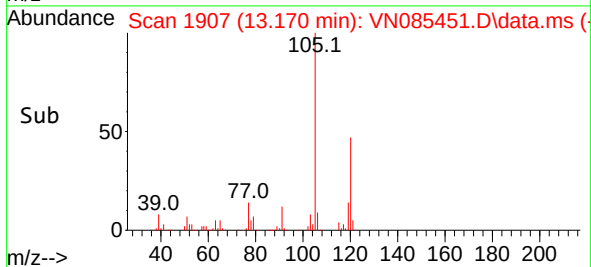
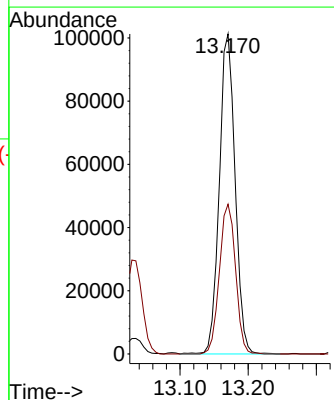
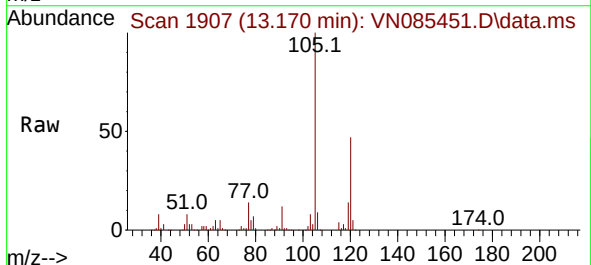
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

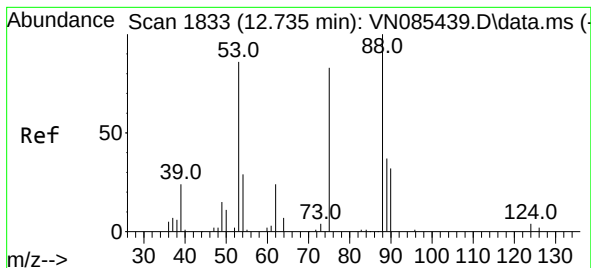
Tgt Ion: 91 Resp: 143092
Ion Ratio Lower Upper
91 100
126 31.0 15.7 47.1



#80
1,3,5-Trimethylbenzene
Concen: 21.445 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 105 Resp: 163195
Ion Ratio Lower Upper
105 100
120 47.8 23.9 71.7

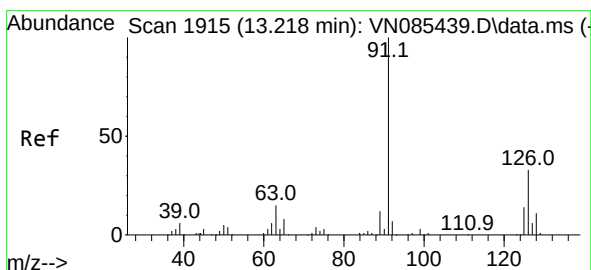
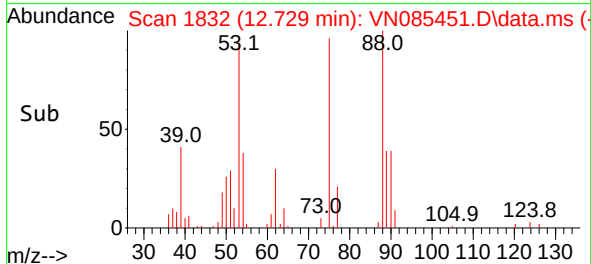
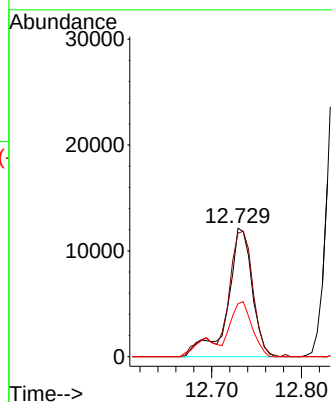
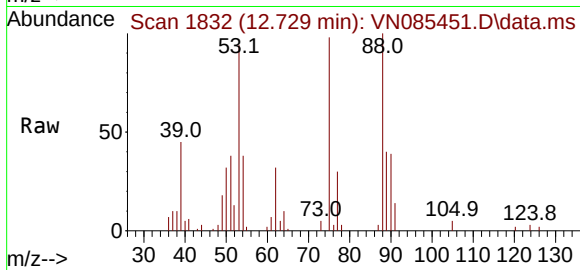




#81
trans-1,4-Dichloro-2-butene
Concen: 22.347 ug/l
RT: 12.729 min Scan# 1832
Delta R.T. -0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

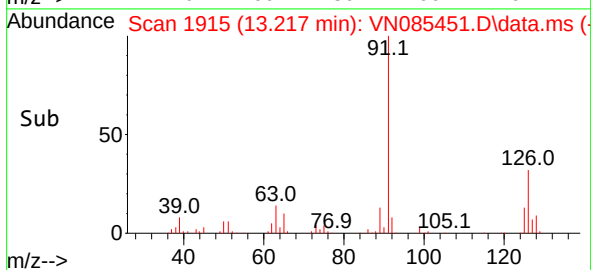
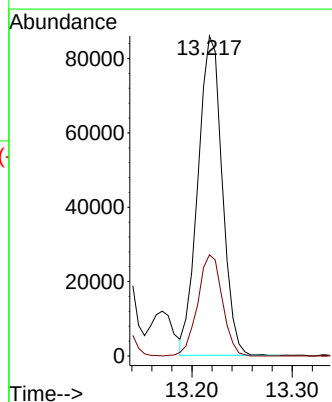
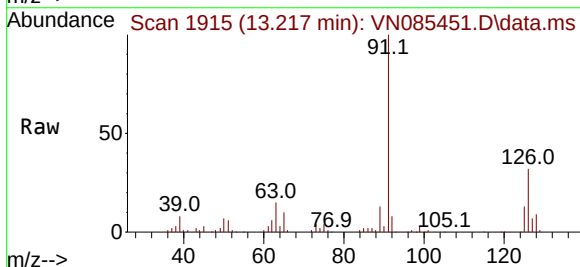
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

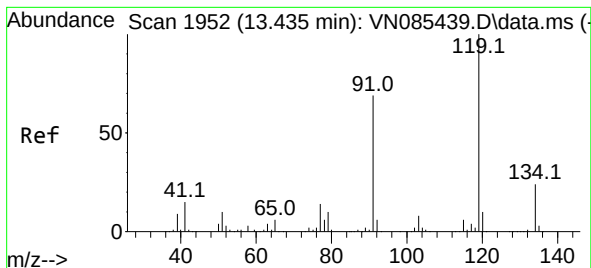
Tgt Ion: 75 Resp: 22916
Ion Ratio Lower Upper
75 100
53 91.5 95.6 143.4#
89 37.4 37.0 55.6



#82
4-Chlorotoluene
Concen: 20.562 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 91 Resp: 144513
Ion Ratio Lower Upper
91 100
126 32.2 15.9 47.7





#83

tert-Butylbenzene

Concen: 20.501 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

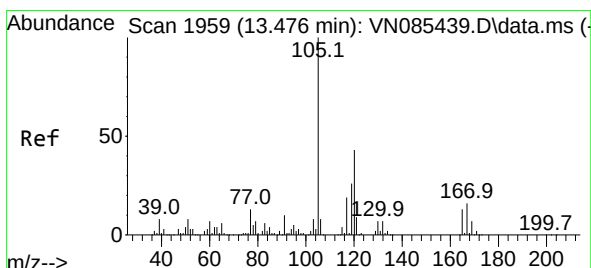
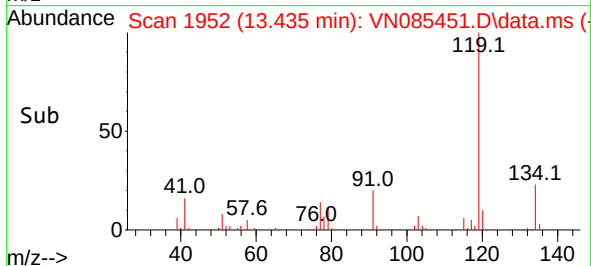
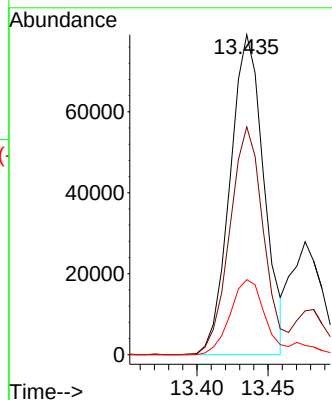
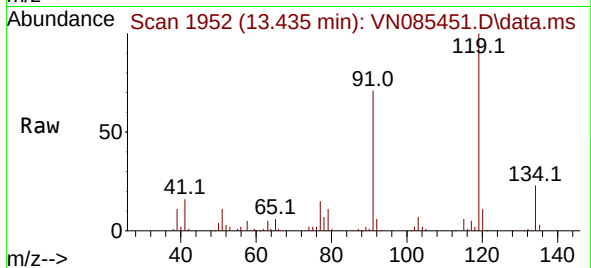
Tgt Ion:119 Resp: 131013

Ion Ratio Lower Upper

119 100

91 71.6 35.1 105.3

134 24.0 12.0 36.1



#84

1,2,4-Trimethylbenzene

Concen: 21.634 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN085451.D

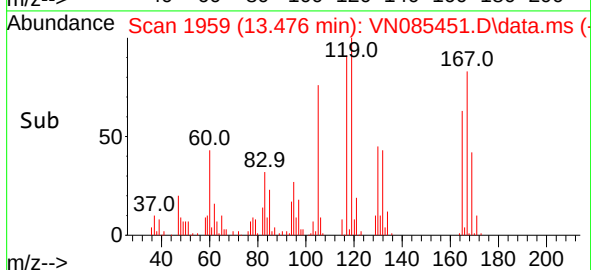
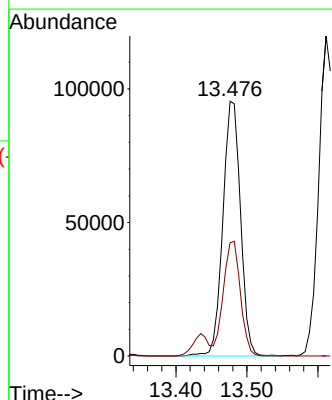
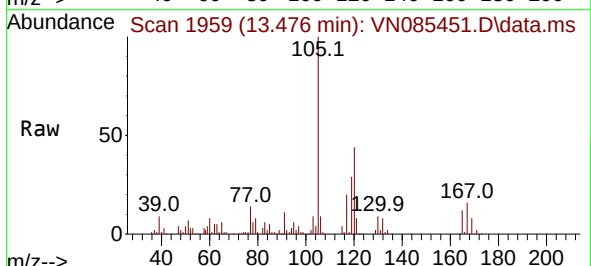
Acq: 15 Jan 2025 11:02

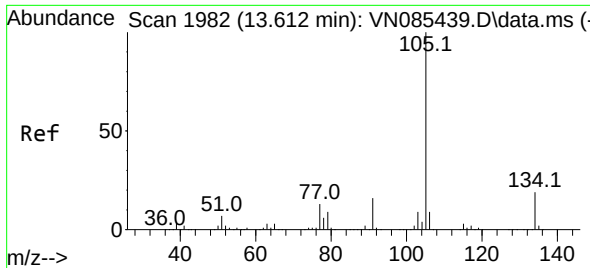
Tgt Ion:105 Resp: 164079

Ion Ratio Lower Upper

105 100

120 43.3 21.6 65.0

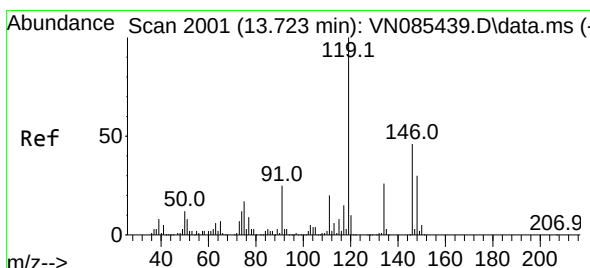
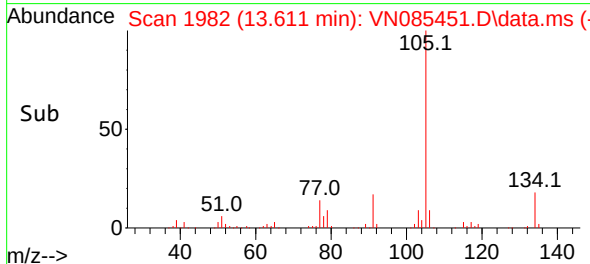
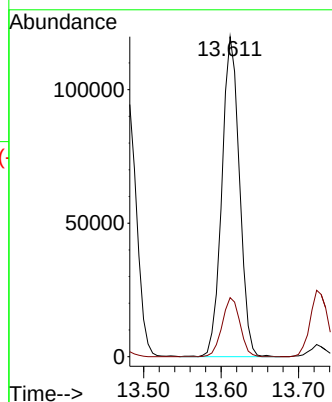
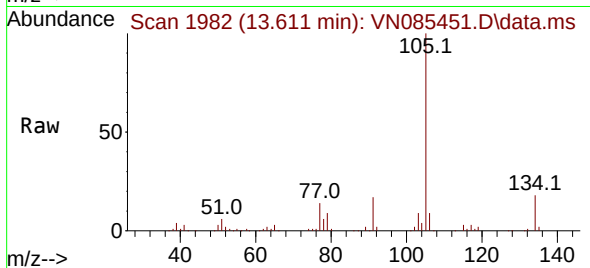




#85
 sec-Butylbenzene
 Concen: 21.398 ug/l
 RT: 13.611 min Scan# 1982
 Delta R.T. -0.001 min
 Lab File: VN085451.D
 Acq: 15 Jan 2025 11:02

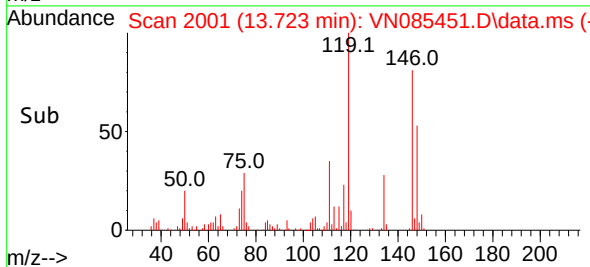
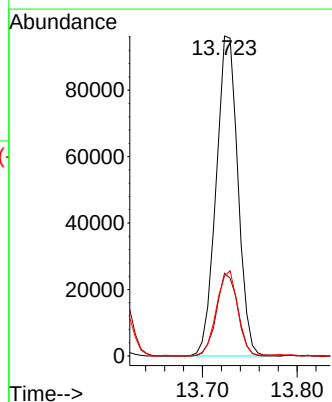
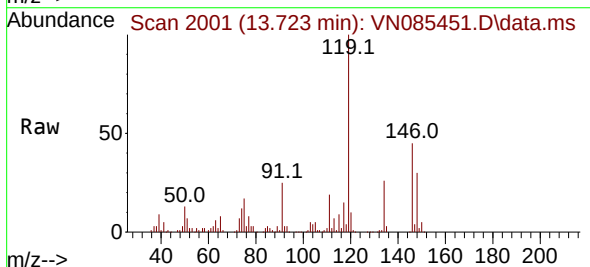
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBSD01

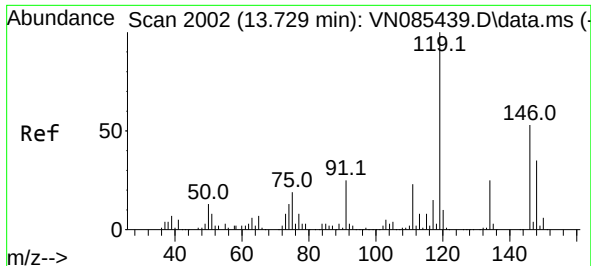
Tgt Ion:105 Resp: 189519
 Ion Ratio Lower Upper
 105 100
 134 18.7 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 20.798 ug/l
 RT: 13.723 min Scan# 2001
 Delta R.T. 0.000 min
 Lab File: VN085451.D
 Acq: 15 Jan 2025 11:02

Tgt Ion:119 Resp: 153867
 Ion Ratio Lower Upper
 119 100
 134 25.3 12.7 38.0
 91 26.0 12.7 38.1

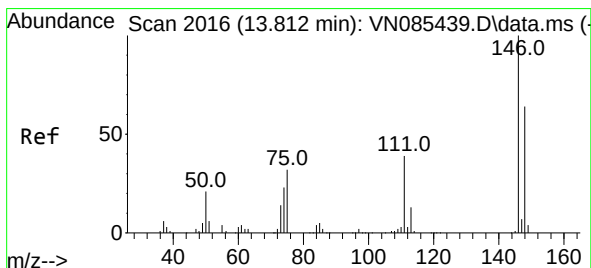
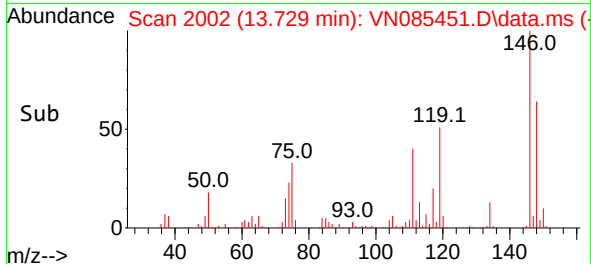
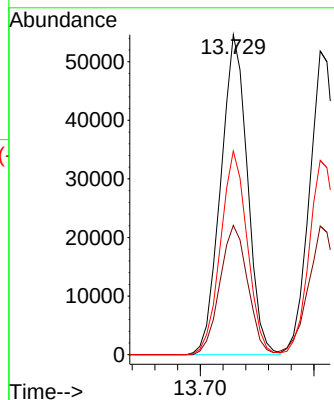
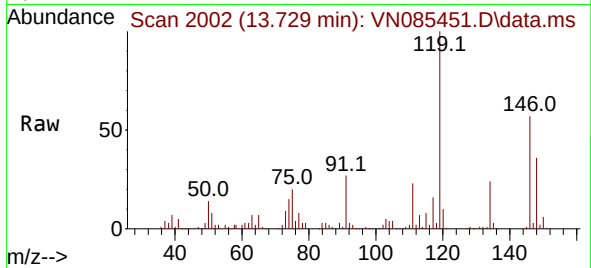




#87
 1,3-Dichlorobenzene
 Concen: 20.107 ug/l
 RT: 13.729 min Scan# 2015
 Delta R.T. -0.000 min
 Lab File: VN085451.D
 Acq: 15 Jan 2025 11:02

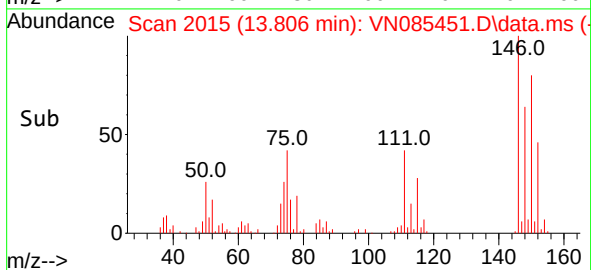
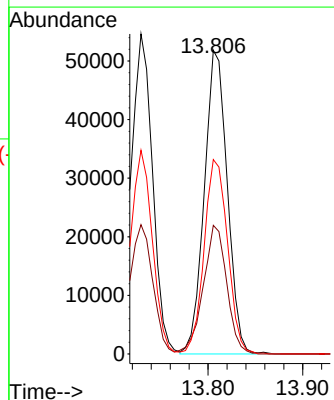
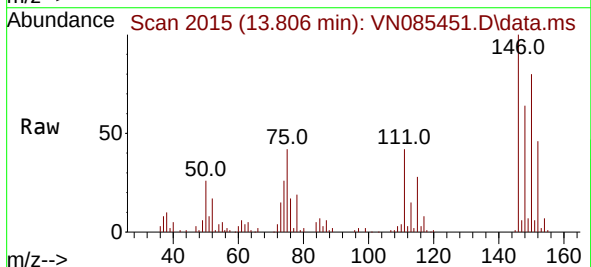
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0115WBSD01

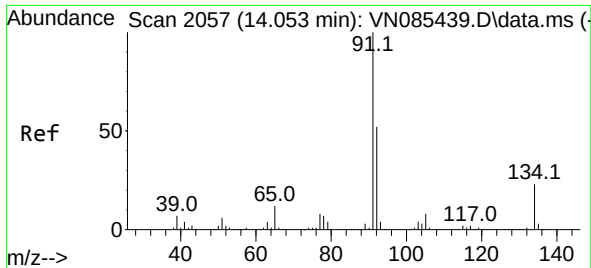
Tgt Ion:146 Resp: 89126
 Ion Ratio Lower Upper
 146 100
 111 42.0 21.4 64.3
 148 63.8 32.3 96.9



#88
 1,4-Dichlorobenzene
 Concen: 19.057 ug/l
 RT: 13.806 min Scan# 2015
 Delta R.T. -0.006 min
 Lab File: VN085451.D
 Acq: 15 Jan 2025 11:02

Tgt Ion:146 Resp: 87559
 Ion Ratio Lower Upper
 146 100
 111 43.5 21.3 63.7
 148 65.5 32.4 97.0

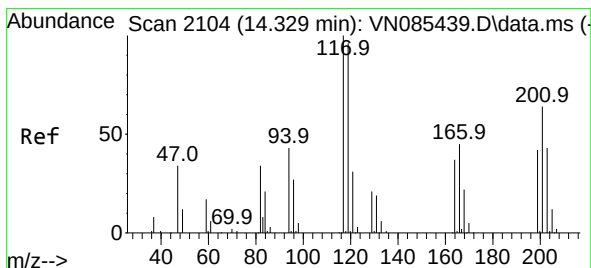
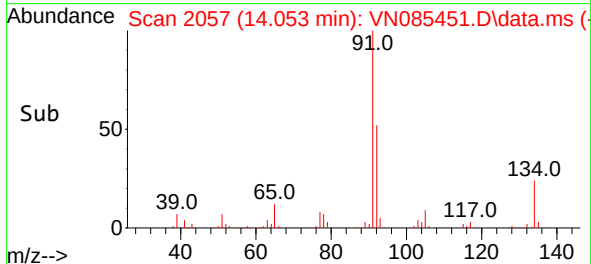
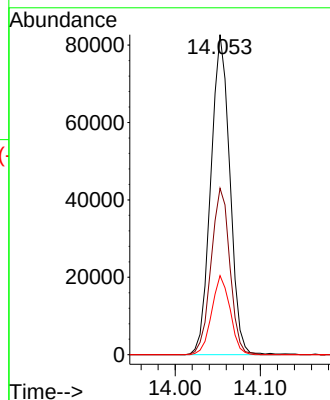
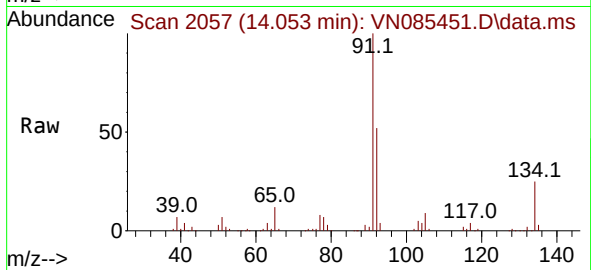




#89
n-Butylbenzene
Concen: 20.183 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

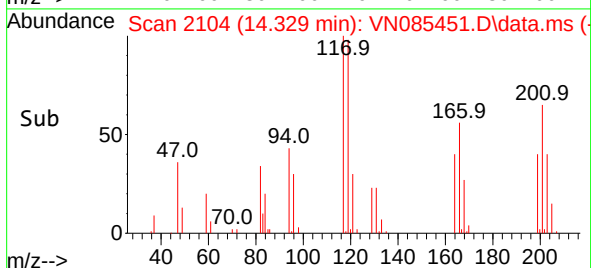
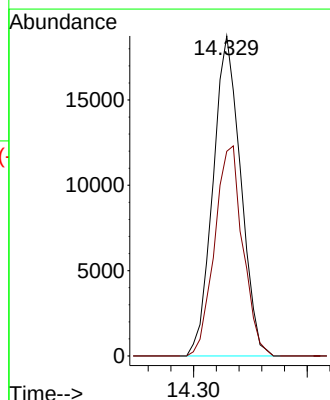
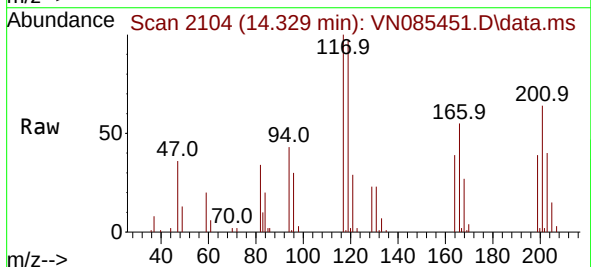
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

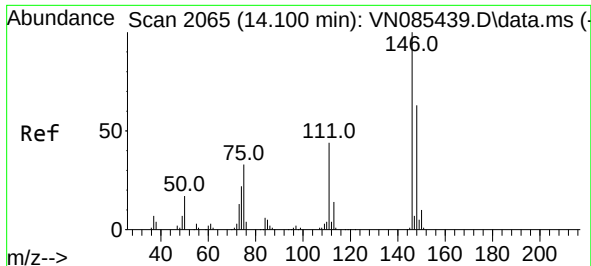
Tgt Ion: 91 Resp: 128246
Ion Ratio Lower Upper
91 100
92 51.4 25.8 77.3
134 23.8 11.7 35.1



#90
Hexachloroethane
Concen: 18.820 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 117 Resp: 31733
Ion Ratio Lower Upper
117 100
201 67.1 33.7 101.0

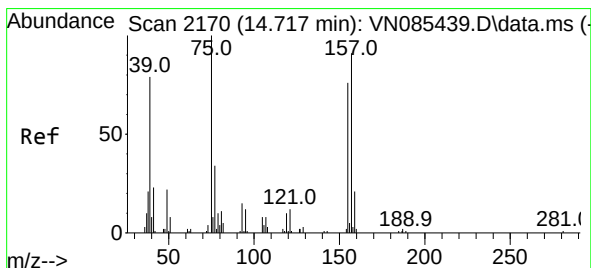
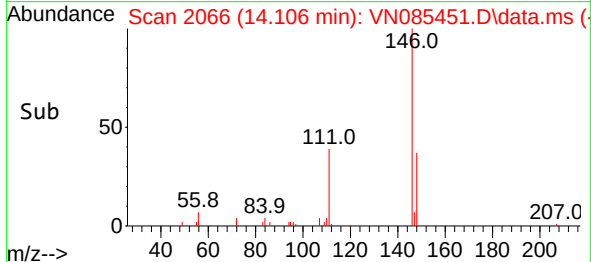
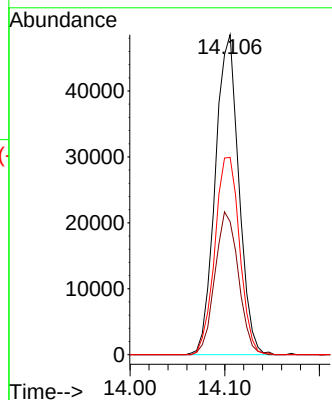
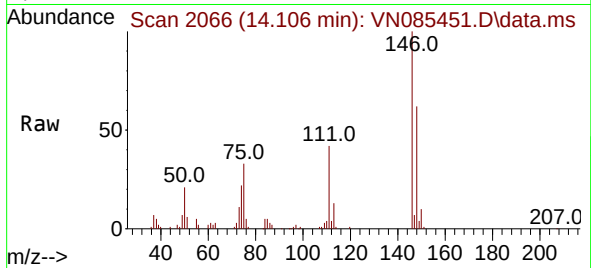




#91
1,2-Dichlorobenzene
Concen: 18.967 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

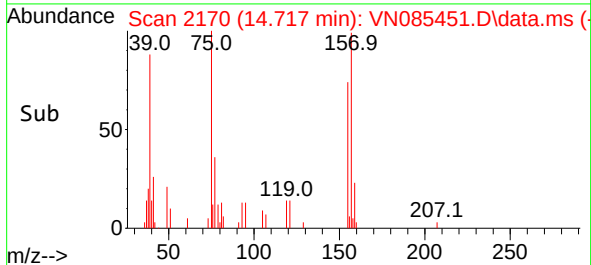
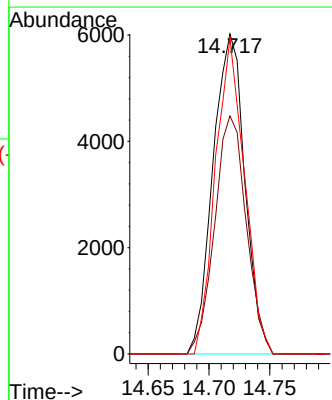
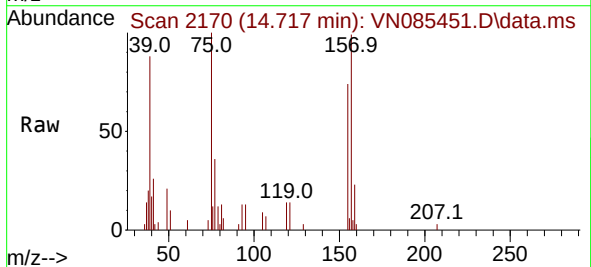
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

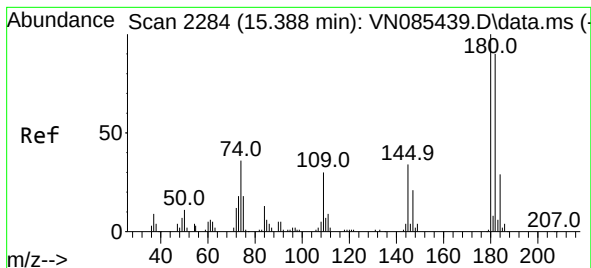
Tgt Ion:146 Resp: 83864
Ion Ratio Lower Upper
146 100
111 44.6 21.7 65.1
148 64.9 31.4 94.2



#92
1,2-Dibromo-3-Chloropropane
Concen: 18.416 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 75 Resp: 10944
Ion Ratio Lower Upper
75 100
155 74.0 36.4 109.2
157 90.2 45.4 136.1





#93

1,2,4-Trichlorobenzene

Concen: 19.248 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN085451.D

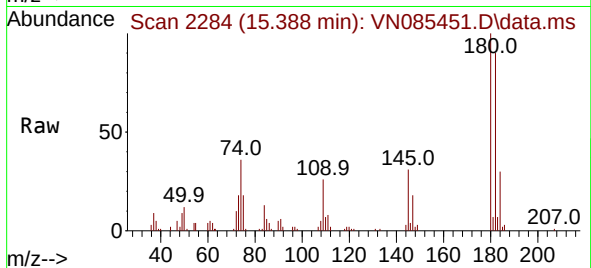
Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01



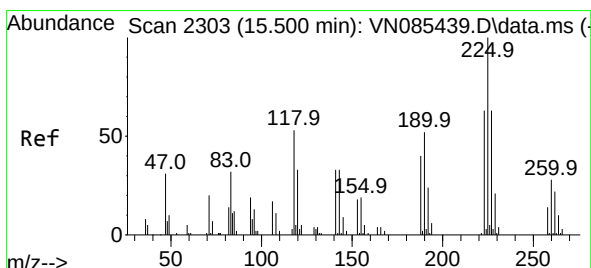
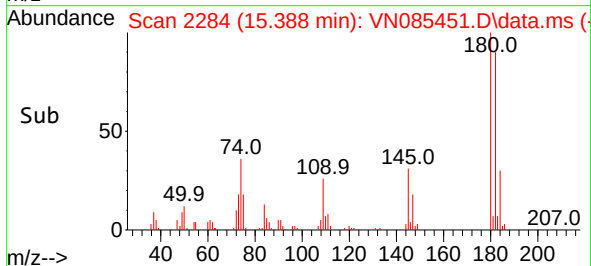
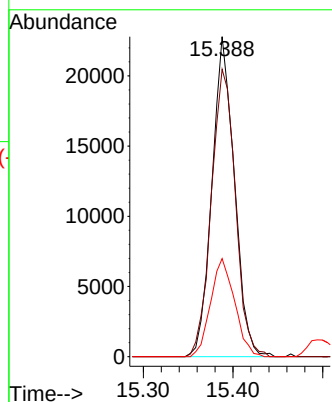
Tgt Ion:180 Resp: 39555

Ion Ratio Lower Upper

180 100

182 96.1 46.8 140.3

145 32.8 16.0 48.0



#94

Hexachlorobutadiene

Concen: 18.872 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

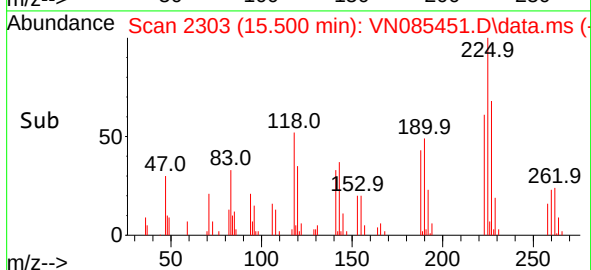
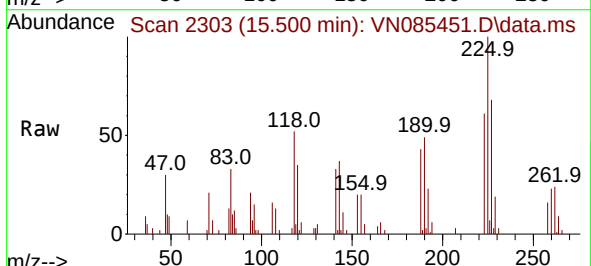
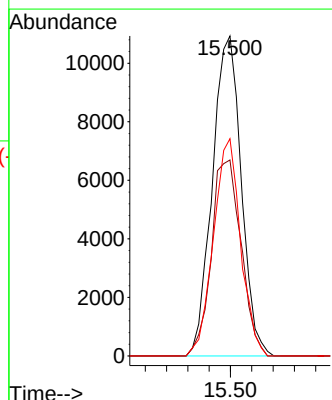
Tgt Ion:225 Resp: 20590

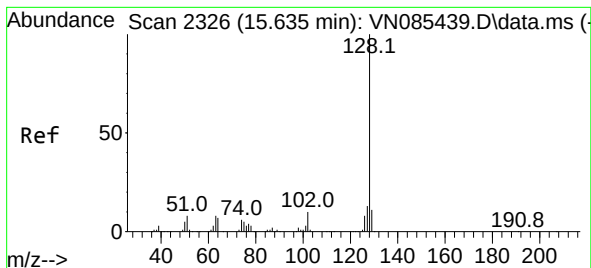
Ion Ratio Lower Upper

225 100

223 62.9 30.7 92.1

227 63.8 30.9 92.5





#95

Naphthalene

Concen: 17.334 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.000 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

Instrument :

MSVOA_N

ClientSampleId :

VN0115WBSD01

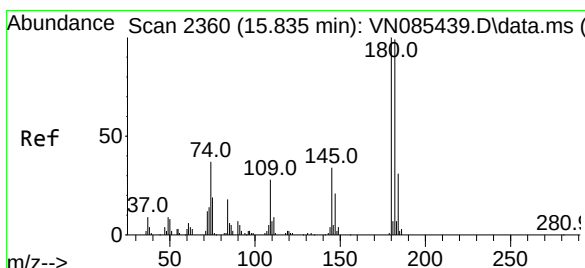
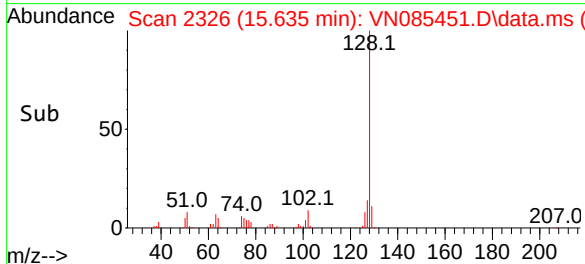
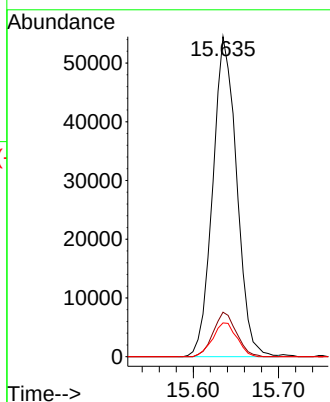
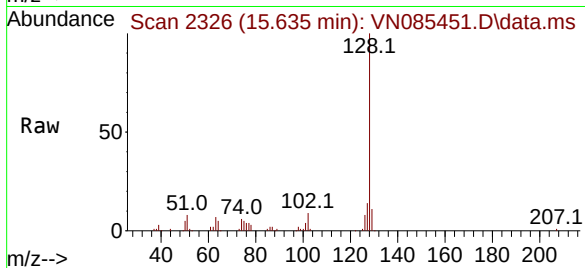
Tgt Ion:128 Resp: 106293

Ion Ratio Lower Upper

128 100

127 13.4 10.6 16.0

129 10.7 8.8 13.2



#96

1,2,3-Trichlorobenzene

Concen: 19.221 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN085451.D

Acq: 15 Jan 2025 11:02

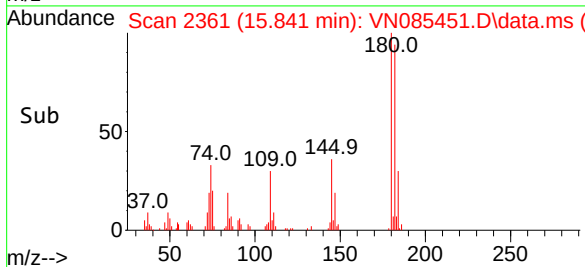
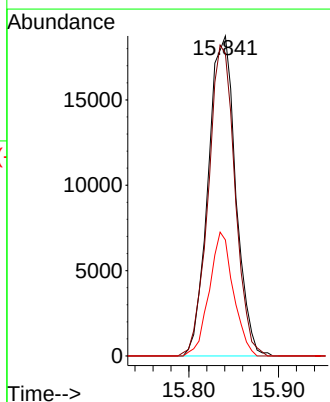
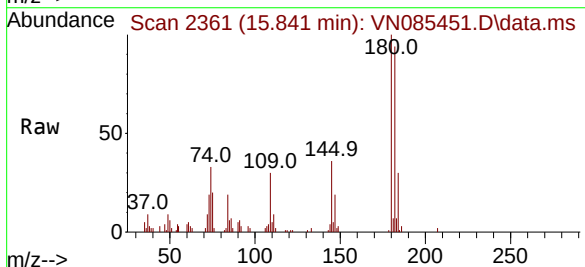
Tgt Ion:180 Resp: 39966

Ion Ratio Lower Upper

180 100

182 94.0 47.4 142.2

145 33.9 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085463.D
 Acq On : 15 Jan 2025 15:58
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Quant Time: Jan 16 01:00:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	218558	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	374640	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	330319	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	166317	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	183857	52.114	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 104.220%	
35) Dibromofluoromethane	8.165	113	134312	51.677	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.360%	
50) Toluene-d8	10.565	98	498748	54.009	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 108.020%	
62) 4-Bromofluorobenzene	12.847	95	177300	56.127	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 112.260%	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	149573	50.545	ug/l	99
3) Chloromethane	2.359	50	153360	47.865	ug/l	97
4) Vinyl Chloride	2.512	62	154638	48.017	ug/l	99
5) Bromomethane	2.948	94	89160	45.833	ug/l	100
6) Chloroethane	3.118	64	99471	48.718	ug/l	98
7) Trichlorofluoromethane	3.500	101	234589	50.203	ug/l	98
8) Diethyl Ether	3.959	74	78639	48.714	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	133519	50.730	ug/l	99
10) Methyl Iodide	4.589	142	158063	52.443	ug/l	97
11) Tert butyl alcohol	5.506	59	107622	266.406	ug/l	98
12) 1,1-Dichloroethene	4.342	96	120856	51.524	ug/l	97
13) Acrolein	4.171	56	156827	284.383	ug/l	98
14) Allyl chloride	5.018	41	195577	51.384	ug/l	98
15) Acrylonitrile	5.718	53	337135	262.738	ug/l	98
16) Acetone	4.418	43	286337	251.190	ug/l	97
17) Carbon Disulfide	4.712	76	338441	46.862	ug/l	99
18) Methyl Acetate	5.018	43	179563	51.803	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	424024	55.672	ug/l	100
20) Methylene Chloride	5.277	84	139560	49.455	ug/l	93
21) trans-1,2-Dichloroethene	5.783	96	127358	50.805	ug/l	96
22) Diisopropyl ether	6.665	45	467061	55.286	ug/l	96
23) Vinyl Acetate	6.600	43	1731604	292.883	ug/l	99
24) 1,1-Dichloroethane	6.565	63	264195	51.287	ug/l	98
25) 2-Butanone	7.477	43	452029	269.467	ug/l	99
26) 2,2-Dichloropropane	7.488	77	236796	56.857	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	155179	52.557	ug/l	99
28) Bromochloromethane	7.806	49	119440	49.837	ug/l	99
29) Tetrahydrofuran	7.835	42	302642	284.562	ug/l	98
30) Chloroform	7.965	83	271813	51.054	ug/l	99
31) Cyclohexane	8.253	56	218304	48.757	ug/l	95
32) 1,1,1-Trichloroethane	8.165	97	237039	50.757	ug/l	97
36) 1,1-Dichloropropene	8.371	75	184438	50.562	ug/l	99
37) Ethyl Acetate	7.553	43	187078	50.810	ug/l	98
38) Carbon Tetrachloride	8.359	117	212942	50.991	ug/l	100
39) Methylcyclohexane	9.594	83	196879	57.436	ug/l	97
40) Benzene	8.600	78	567975	51.821	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085463.D
 Acq On : 15 Jan 2025 15:58
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Quant Time: Jan 16 01:00:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	105319	54.981	ug/l	98
42) 1,2-Dichloroethane	8.665	62	213125	51.629	ug/l	99
43) Isopropyl Acetate	8.682	43	339818	57.599	ug/l	96
44) Trichloroethene	9.347	130	125677	49.260	ug/l	95
45) 1,2-Dichloropropane	9.618	63	142897	51.043	ug/l	99
46) Dibromomethane	9.706	93	100497	49.750	ug/l	97
47) Bromodichloromethane	9.882	83	217353	52.814	ug/l	99
48) Methyl methacrylate	9.677	41	153447	57.796	ug/l	98
49) 1,4-Dioxane	9.688	88	43495	972.836	ug/l	99
51) 4-Methyl-2-Pentanone	10.441	43	967748	282.679	ug/l	100
52) Toluene	10.629	92	349488	55.032	ug/l	98
53) t-1,3-Dichloropropene	10.829	75	217586	55.946	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	231235	55.661	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	130083	51.759	ug/l	99
56) Ethyl methacrylate	10.871	69	211176	49.885	ug/l	98
57) 1,3-Dichloropropane	11.159	76	233088	53.338	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	462882	290.228	ug/l	99
59) 2-Hexanone	11.194	43	703719	292.136	ug/l	99
60) Dibromochloromethane	11.353	129	158806	52.339	ug/l	100
61) 1,2-Dibromoethane	11.465	107	127688	51.040	ug/l	99
64) Tetrachloroethene	11.100	164	106305	47.207	ug/l	99
65) Chlorobenzene	11.888	112	371312	51.313	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	133724	50.351	ug/l	99
67) Ethyl Benzene	11.959	91	665536	56.469	ug/l	99
68) m/p-Xylenes	12.065	106	498925	114.541	ug/l	99
69) o-Xylene	12.394	106	236130	56.724	ug/l	99
70) Styrene	12.406	104	408614	59.312	ug/l	99
71) Bromoform	12.576	173	105169	55.344	ug/l #	98
73) Isopropylbenzene	12.694	105	614595	54.752	ug/l	100
74) N-amyl acetate	12.488	43	283775	56.244	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	195465	49.296	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	257490	76.171	ug/l	45
77) Bromobenzene	12.976	156	146854	50.075	ug/l	99
78) n-propylbenzene	13.035	91	748465	56.324	ug/l	100
79) 2-Chlorotoluene	13.123	91	450235	52.351	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	523728	56.485	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	79734	63.816	ug/l	86
82) 4-Chlorotoluene	13.217	91	459658	53.678	ug/l	100
83) tert-Butylbenzene	13.435	119	437674	56.211	ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	531276	57.491	ug/l	100
85) sec-Butylbenzene	13.612	105	626587	58.063	ug/l	100
86) p-Isopropyltoluene	13.729	119	525049	53.560	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	277409	51.364	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	272594	48.694	ug/l	99
89) n-Butylbenzene	14.053	91	455243	58.802	ug/l	99
90) Hexachloroethane	14.329	117	103728	50.491	ug/l	99
91) 1,2-Dichlorobenzene	14.100	146	266635	49.494	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	36986	51.081	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	133515	53.324	ug/l	99
94) Hexachlorobutadiene	15.500	225	64832	48.771	ug/l	99
95) Naphthalene	15.635	128	399446	53.462	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	128843	50.856	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085463.D
Acq On : 15 Jan 2025 15:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Quant Time: Jan 16 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

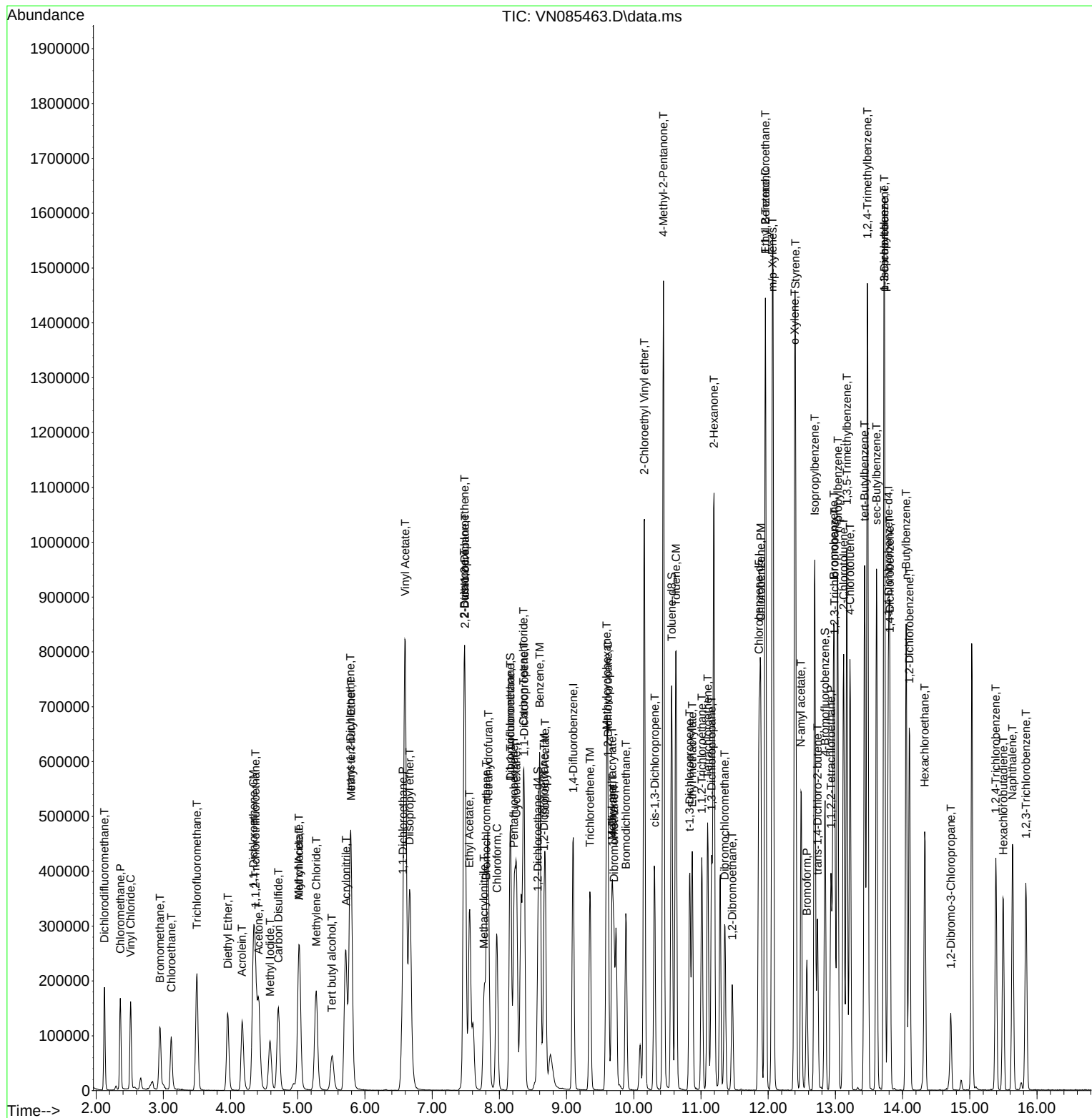
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

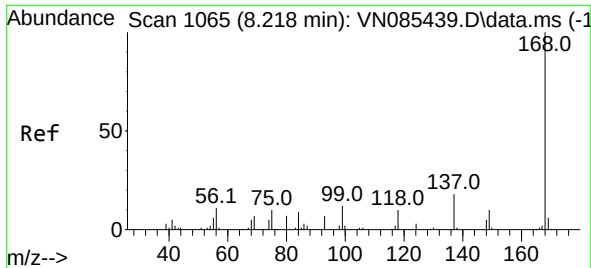
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085463.D
 Acq On : 15 Jan 2025 15:58
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 ClientSampleId :
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Quant Time: Jan 16 01:00:39 2025
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 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

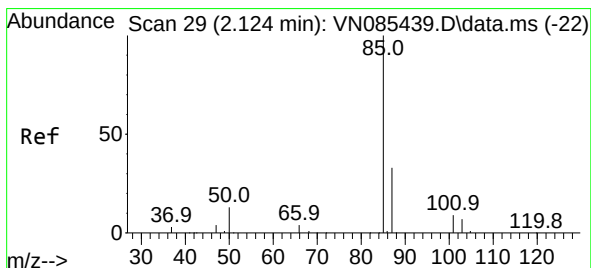
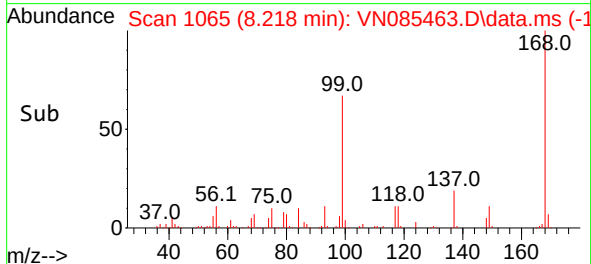
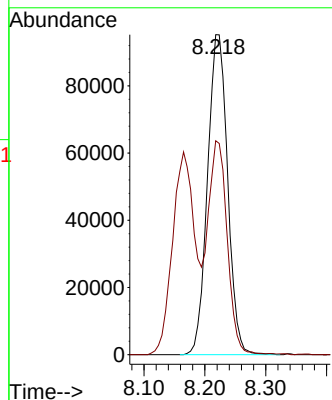
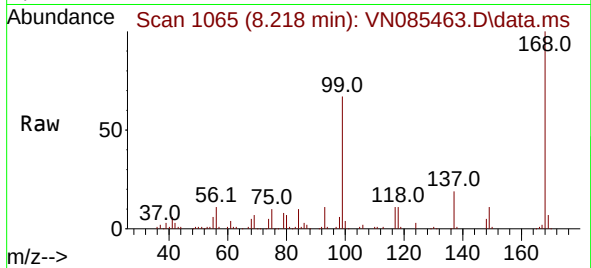




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

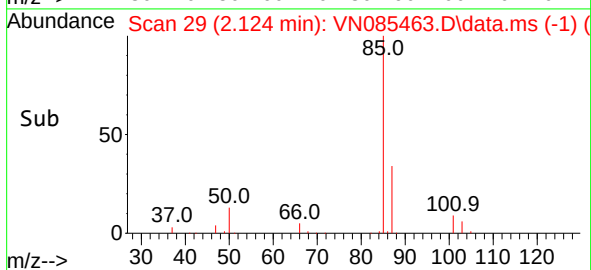
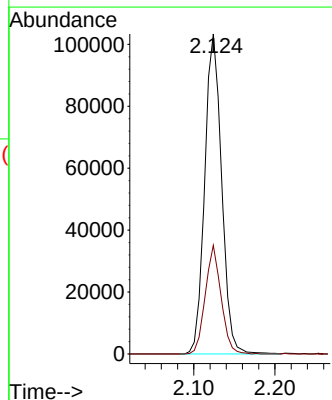
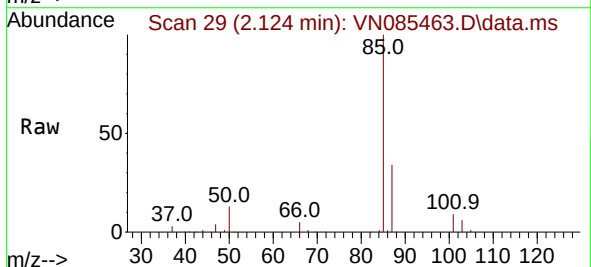
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

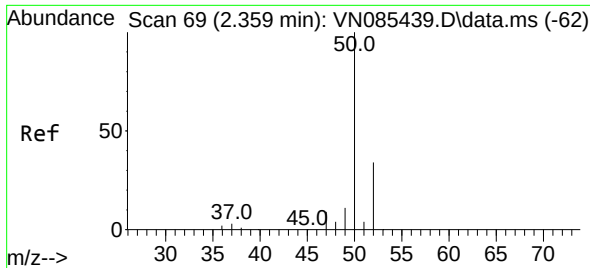
Tgt Ion:168 Resp: 218558
Ion Ratio Lower Upper
168 100
99 66.6 53.6 80.4



#2
Dichlorodifluoromethane
Concen: 50.545 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 85 Resp: 149573
Ion Ratio Lower Upper
85 100
87 34.0 16.7 50.1

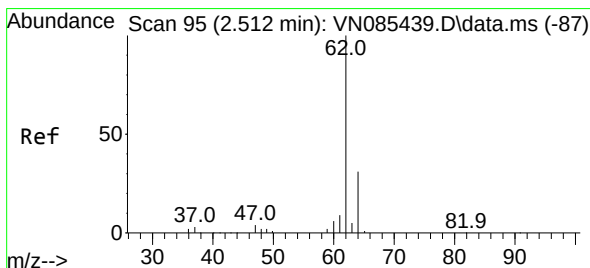
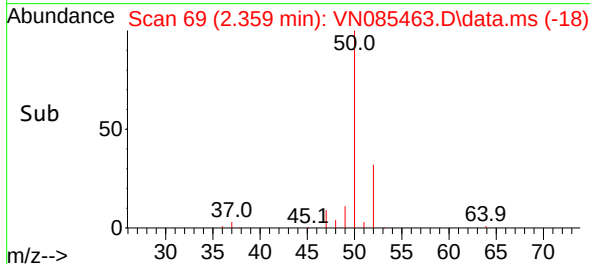
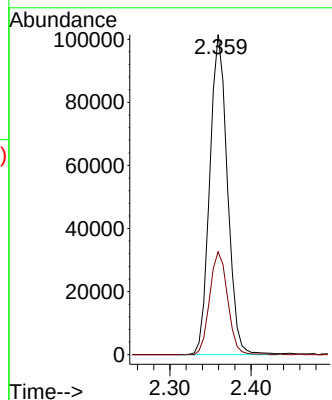
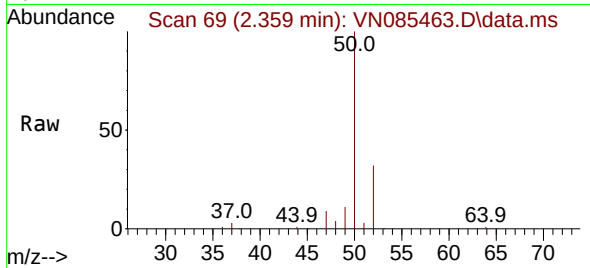




#3
Chloromethane
Concen: 47.865 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

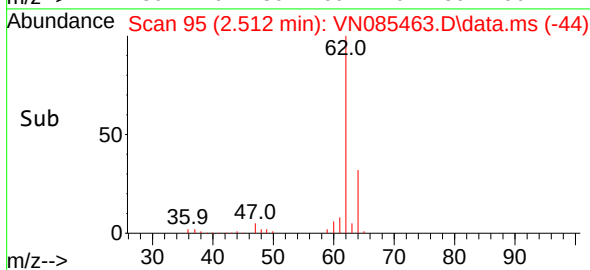
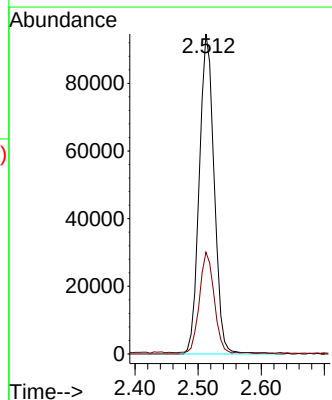
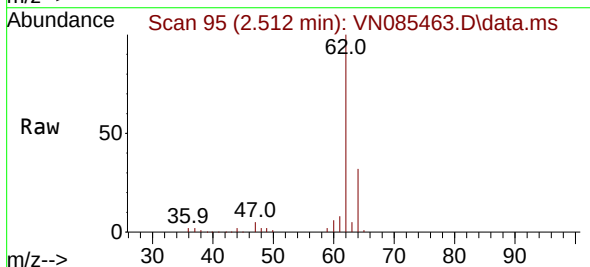
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

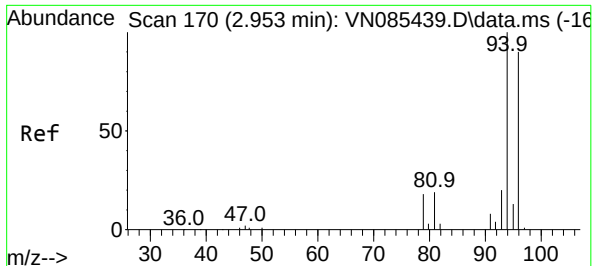
Tgt Ion: 50 Resp: 153360
Ion Ratio Lower Upper
50 100
52 32.1 27.0 40.6



#4
Vinyl Chloride
Concen: 48.017 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 62 Resp: 154638
Ion Ratio Lower Upper
62 100
64 31.4 24.8 37.2

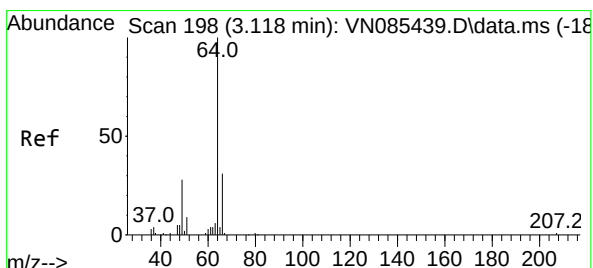
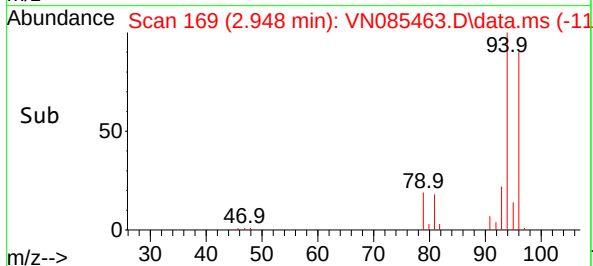
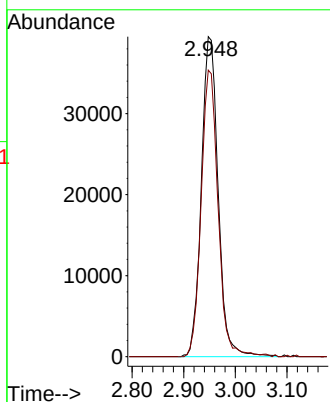
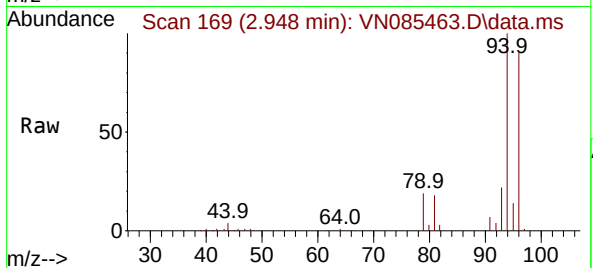




#5
Bromomethane
Concen: 45.833 ug/l
RT: 2.948 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

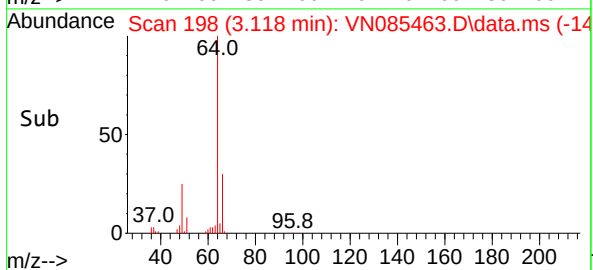
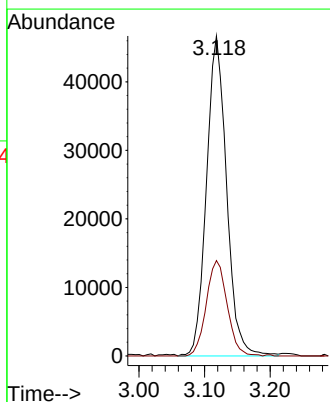
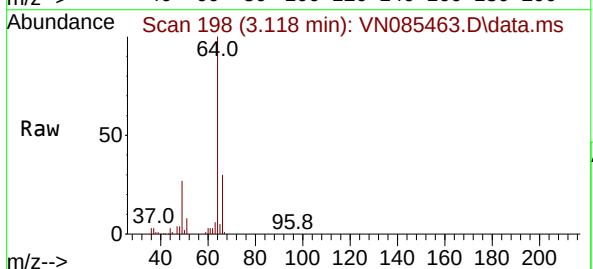
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

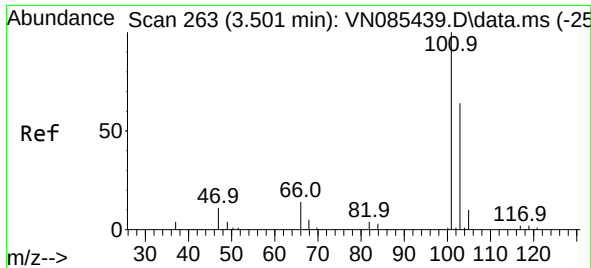
Tgt Ion: 94 Resp: 89160
Ion Ratio Lower Upper
94 100
96 89.6 71.8 107.6



#6
Chloroethane
Concen: 48.718 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 64 Resp: 99471
Ion Ratio Lower Upper
64 100
66 29.8 24.6 36.8

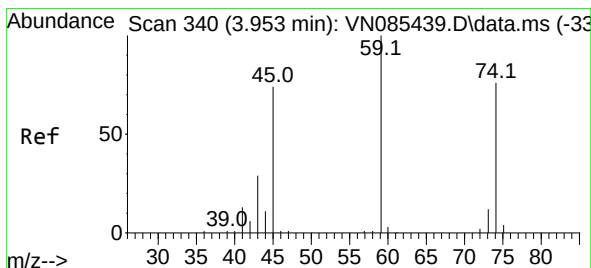
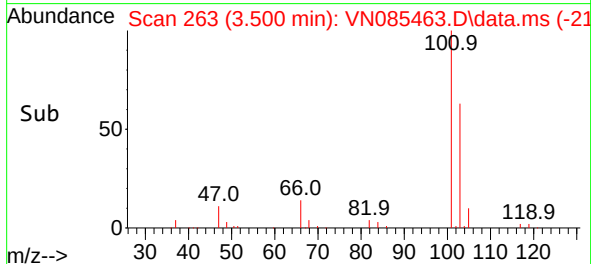
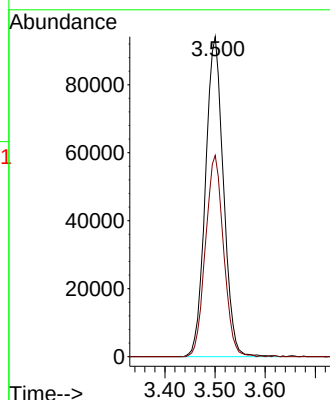
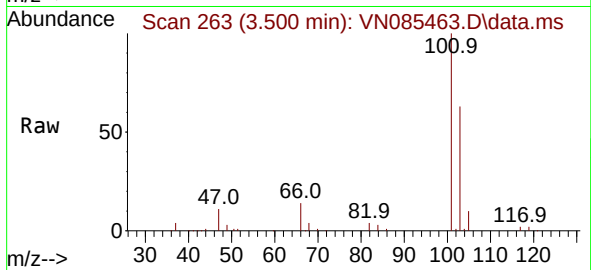




#7
 Trichlorofluoromethane
 Concen: 50.203 ug/l
 RT: 3.500 min Scan# 210
 Delta R.T. -0.000 min
 Lab File: VN085463.D
 Acq: 15 Jan 2025 15:58

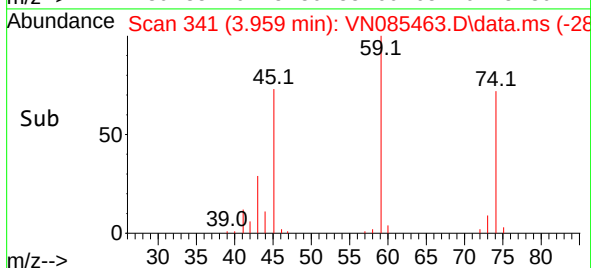
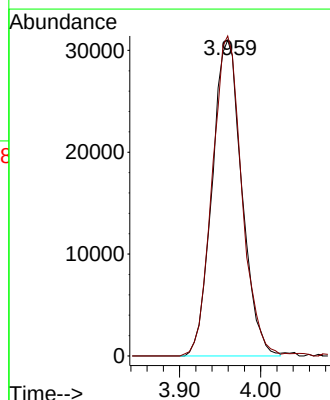
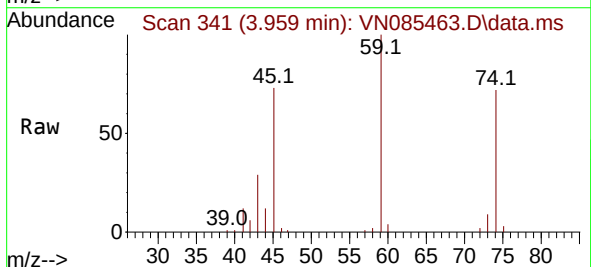
Instrument :
 MSVOA_N
 ClientSampleId :
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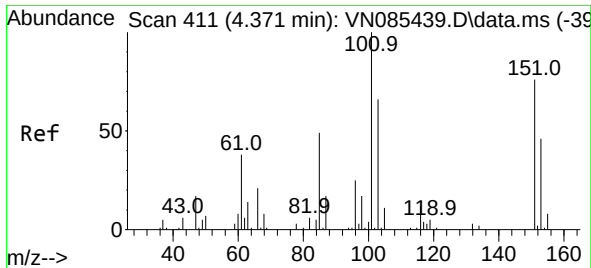
Tgt Ion:101 Resp: 234589
 Ion Ratio Lower Upper
 101 100
 103 62.9 51.4 77.2



#8
 Diethyl Ether
 Concen: 48.714 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. 0.006 min
 Lab File: VN085463.D
 Acq: 15 Jan 2025 15:58

Tgt Ion: 74 Resp: 78639
 Ion Ratio Lower Upper
 74 100
 45 100.9 49.7 149.1

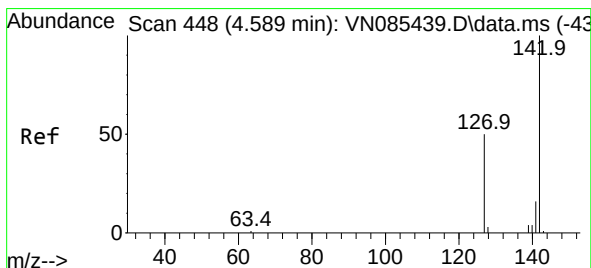
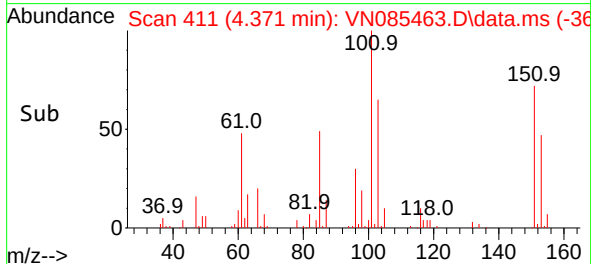
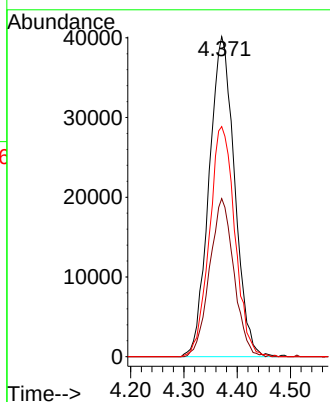
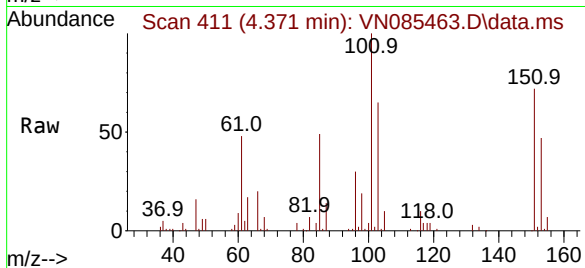




#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.730 ug/l
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

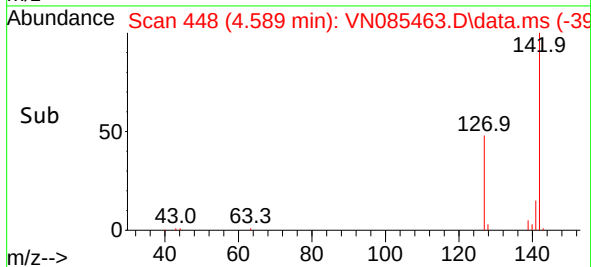
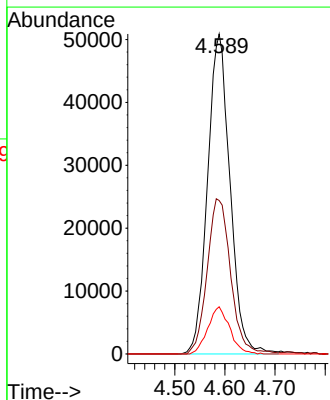
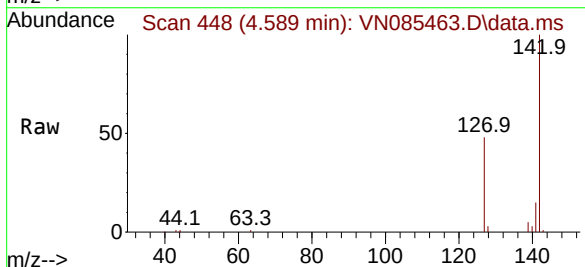
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

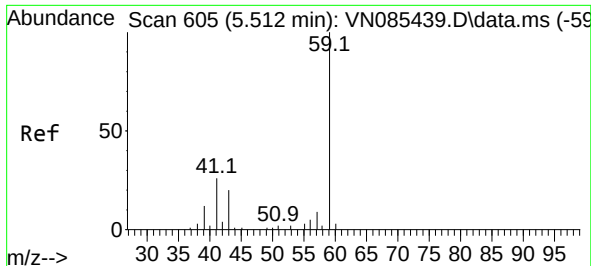
Tgt Ion:101 Resp: 133519
Ion Ratio Lower Upper
101 100
85 47.1 37.8 56.8
151 71.8 58.8 88.2



#10
Methyl Iodide
Concen: 52.443 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:142 Resp: 158063
Ion Ratio Lower Upper
142 100
127 47.9 40.3 60.5
141 14.8 12.8 19.2

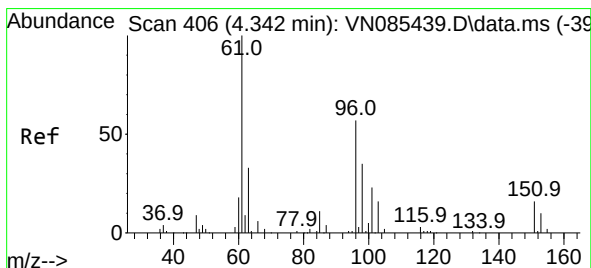
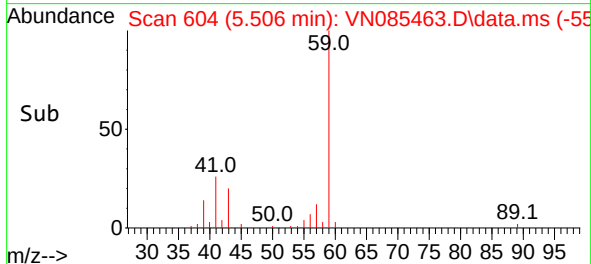
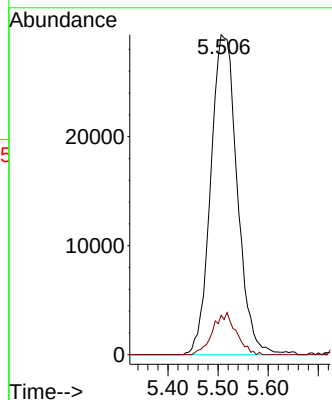
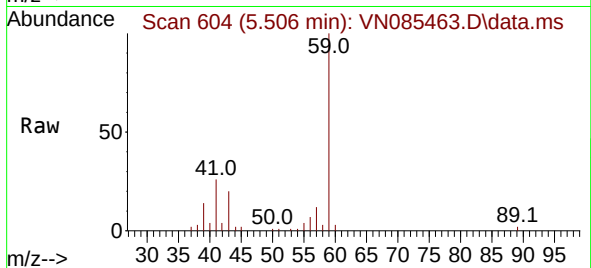




#11
Tert butyl alcohol
Concen: 266.406 ug/l
RT: 5.506 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

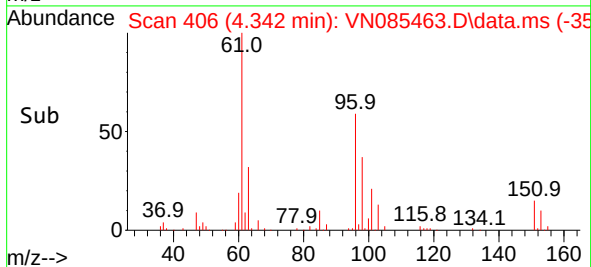
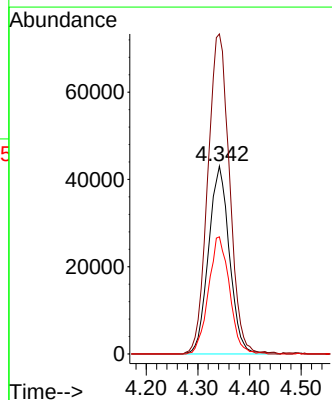
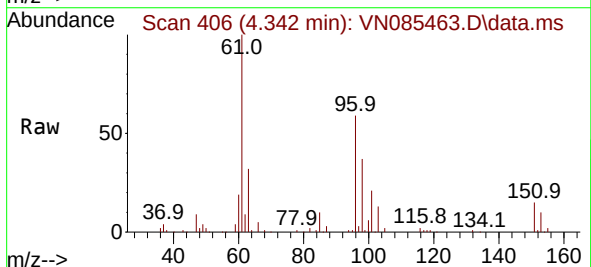
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

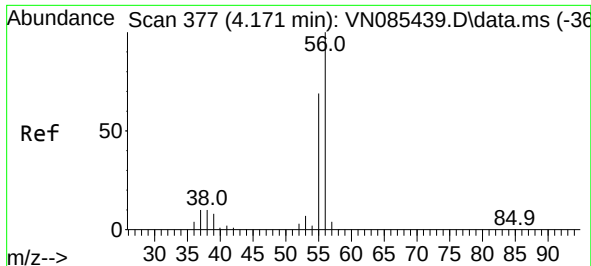
Tgt Ion: 59 Resp: 107622
Ion Ratio Lower Upper
59 100
57 11.7 8.6 13.0



#12
1,1-Dichloroethene
Concen: 51.524 ug/l
RT: 4.342 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 96 Resp: 120856
Ion Ratio Lower Upper
96 100
61 170.3 141.0 211.4
98 62.3 49.0 73.6





#13

Acrolein

Concen: 284.383 ug/l

RT: 4.171 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

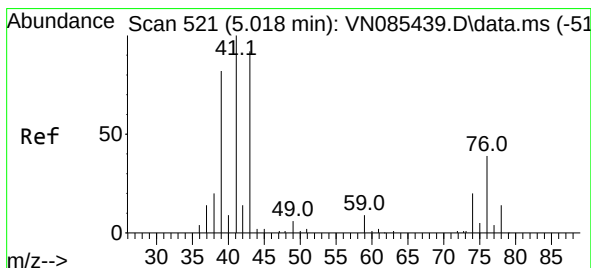
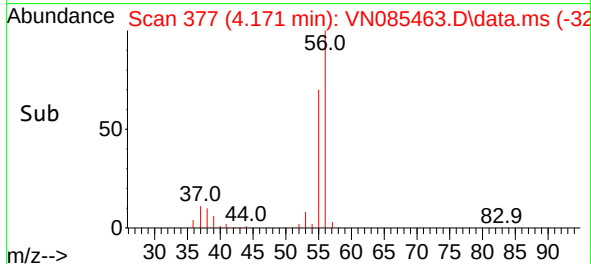
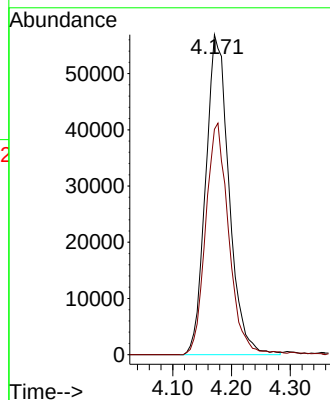
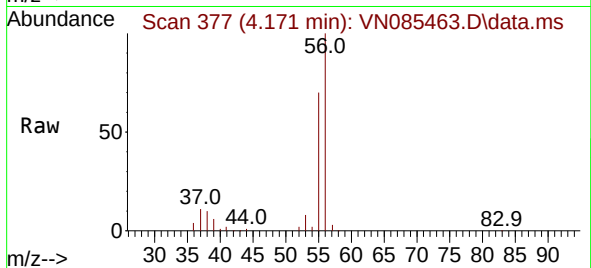
VSTDCCC050EC

Tgt Ion: 56 Resp: 156827

Ion Ratio Lower Upper

56 100

55 71.8 56.3 84.5



#14

Allyl chloride

Concen: 51.384 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

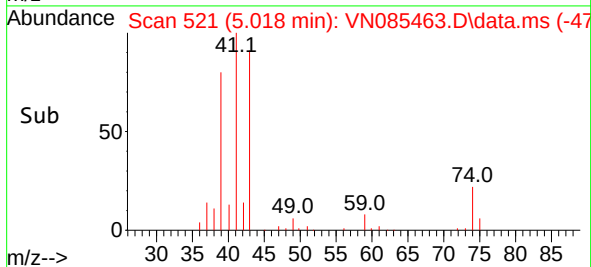
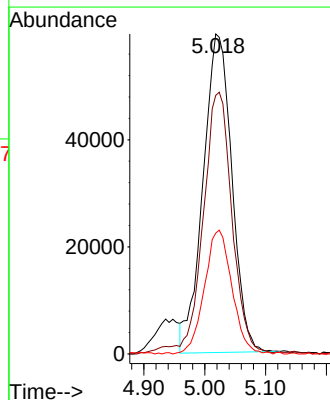
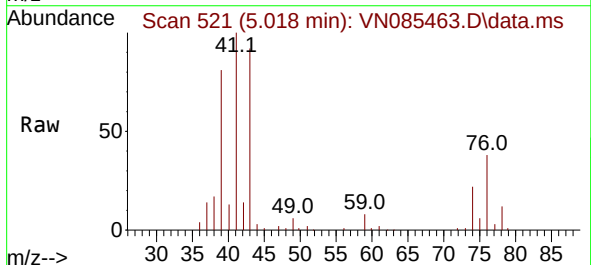
Tgt Ion: 41 Resp: 195577

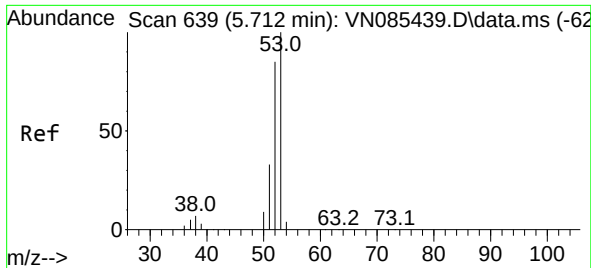
Ion Ratio Lower Upper

41 100

39 82.9 64.4 96.6

76 37.2 30.5 45.7

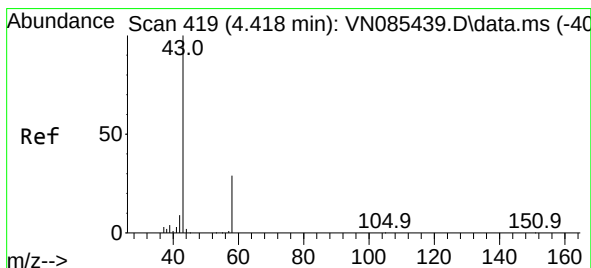
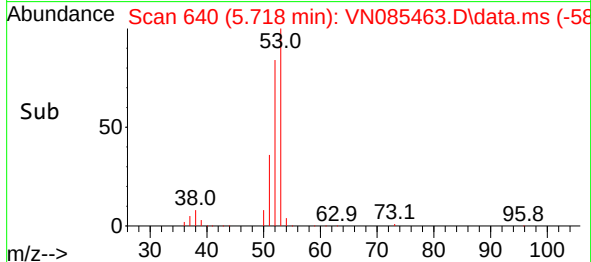
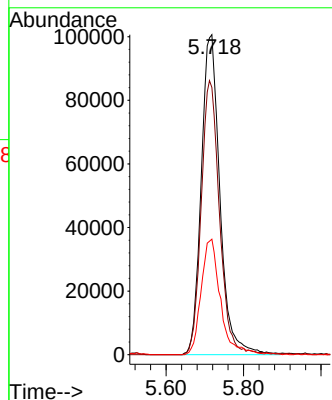
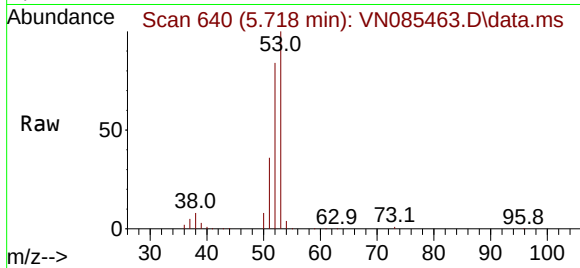




#15
Acrylonitrile
Concen: 262.738 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

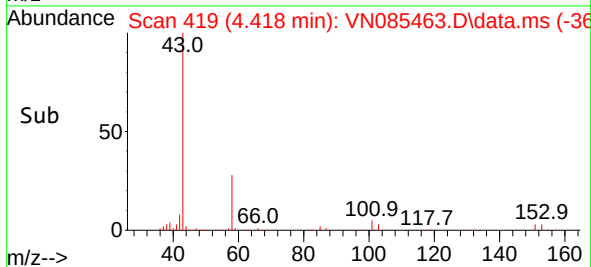
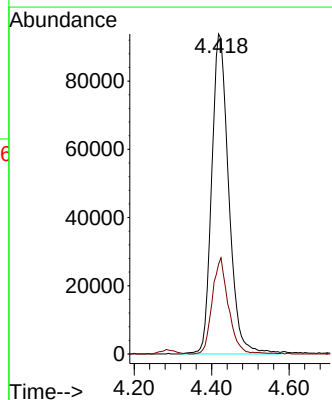
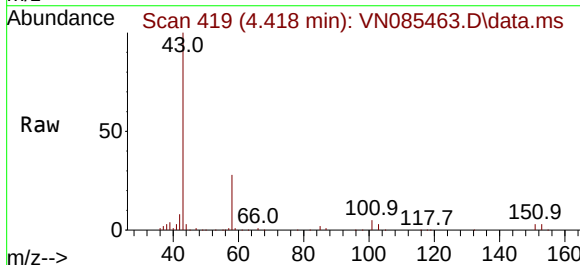
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

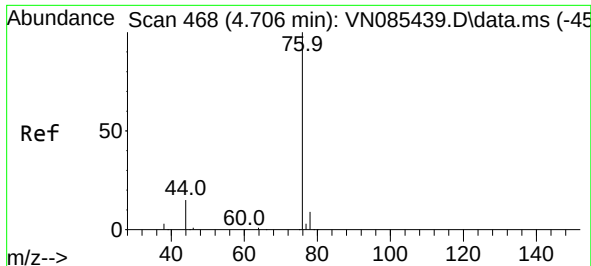
Tgt Ion: 53 Resp: 337135
Ion Ratio Lower Upper
53 100
52 84.0 65.5 98.3
51 37.1 29.8 44.8



#16
Acetone
Concen: 251.190 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 43 Resp: 286337
Ion Ratio Lower Upper
43 100
58 27.9 23.8 35.6

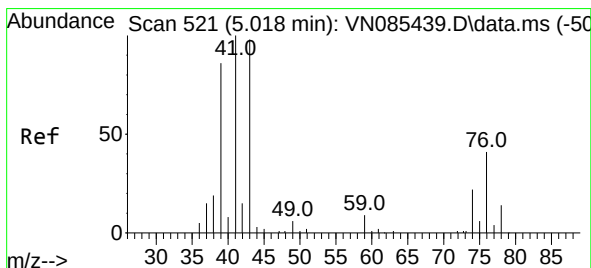
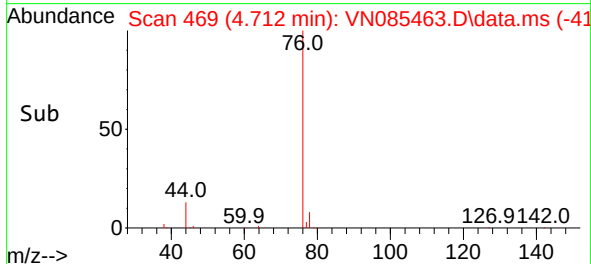
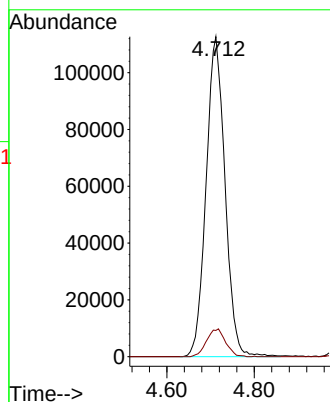
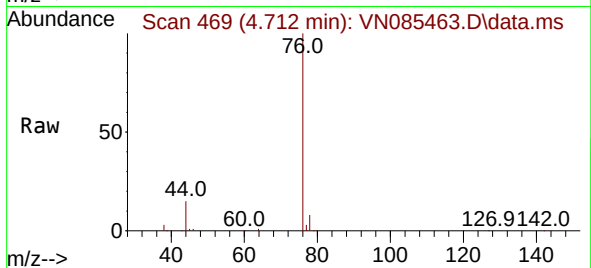




#17
Carbon Disulfide
Concen: 46.862 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

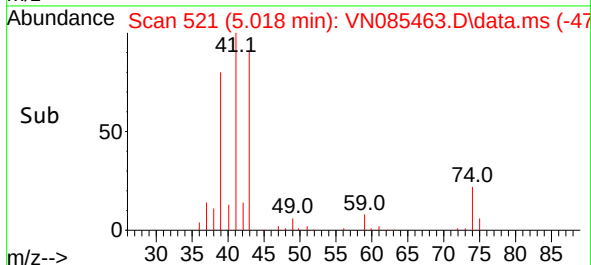
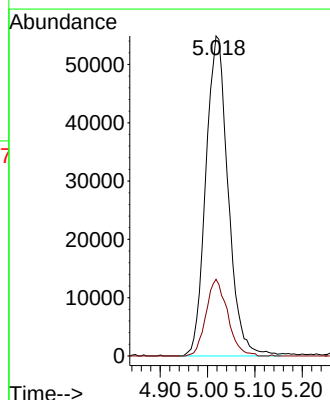
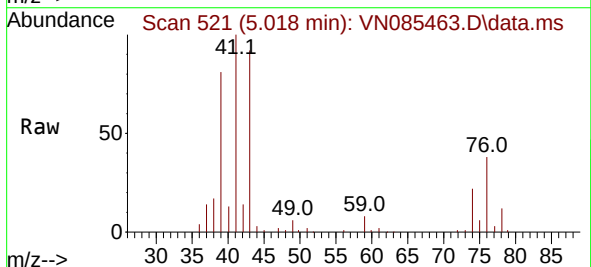
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

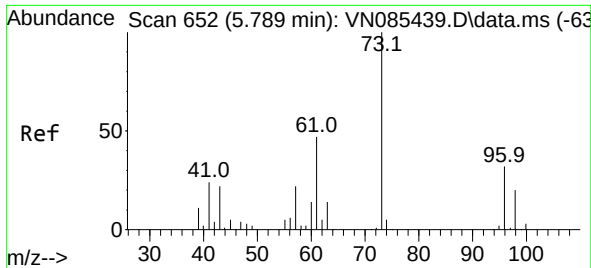
Tgt Ion: 76 Resp: 338441
Ion Ratio Lower Upper
76 100
78 8.2 6.9 10.3



#18
Methyl Acetate
Concen: 51.803 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 43 Resp: 179563
Ion Ratio Lower Upper
43 100
74 23.2 18.6 28.0

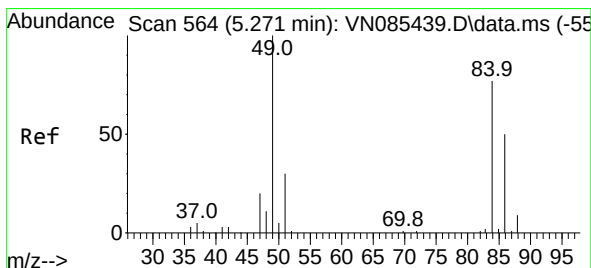
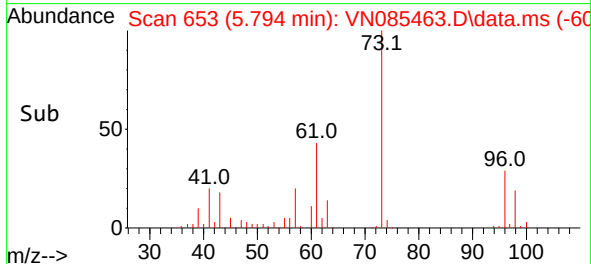
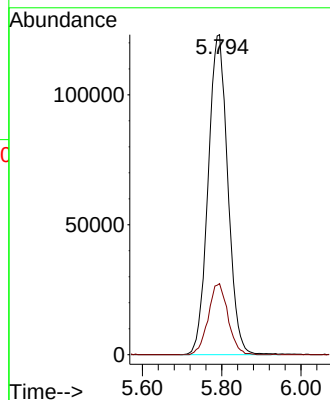
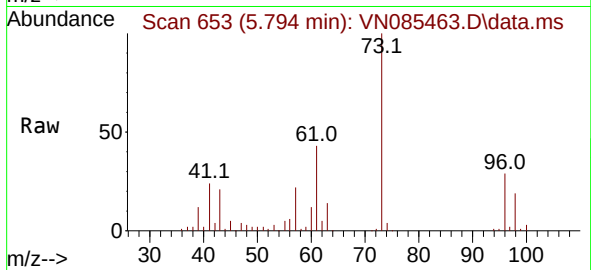




#19
Methyl tert-butyl Ether
Concen: 55.672 ug/l
RT: 5.794 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

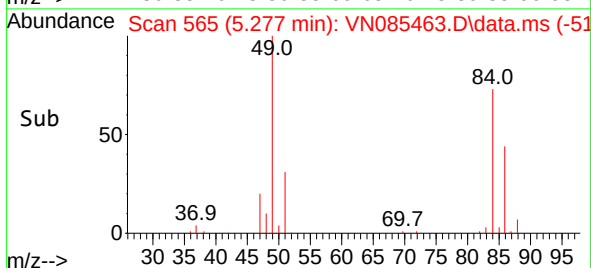
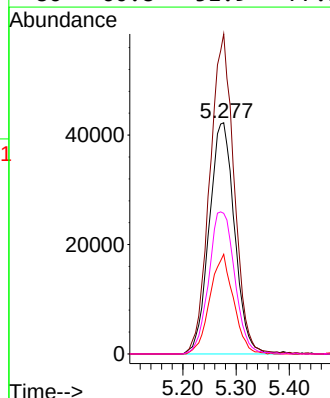
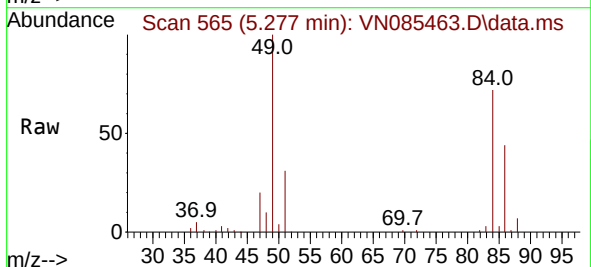
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

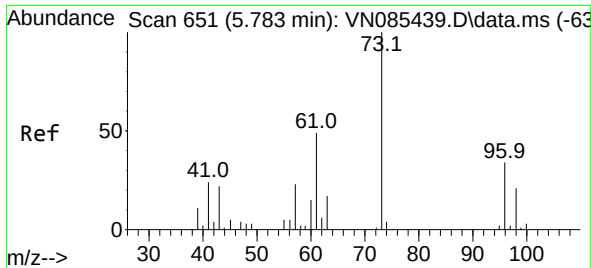
Tgt Ion: 73 Resp: 424024
Ion Ratio Lower Upper
73 100
57 22.2 17.8 26.8



#20
Methylene Chloride
Concen: 49.455 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 84 Resp: 139560
Ion Ratio Lower Upper
84 100
49 138.4 104.1 156.1
51 43.1 31.0 46.4
86 60.8 51.9 77.9

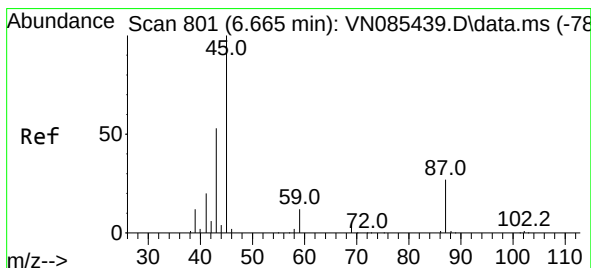
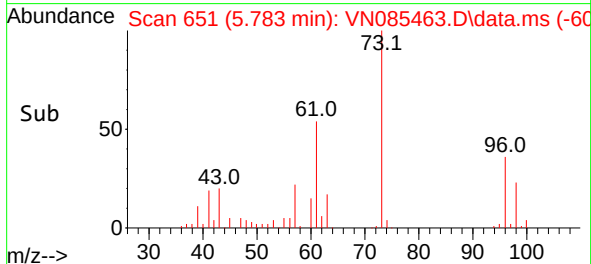
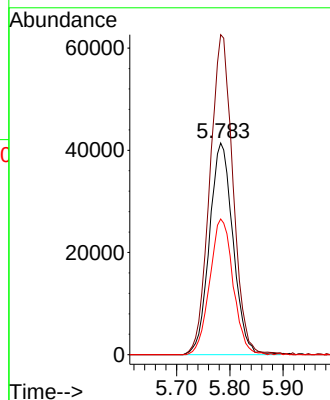
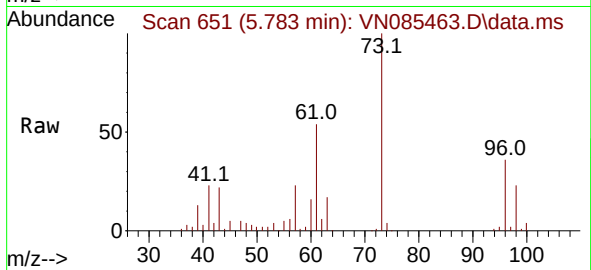




#21
trans-1,2-Dichloroethene
Concen: 50.805 ug/l
RT: 5.783 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

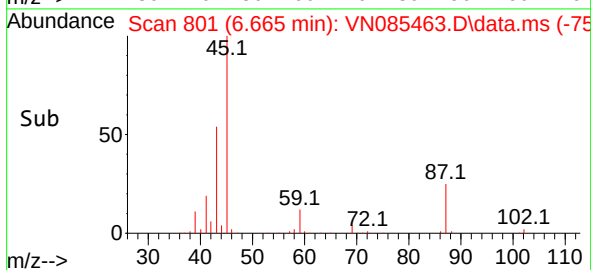
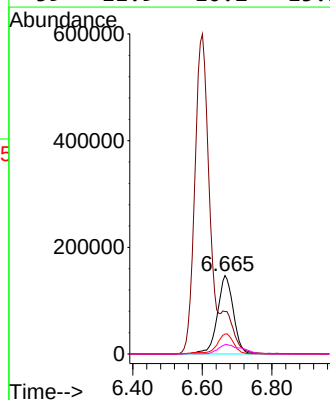
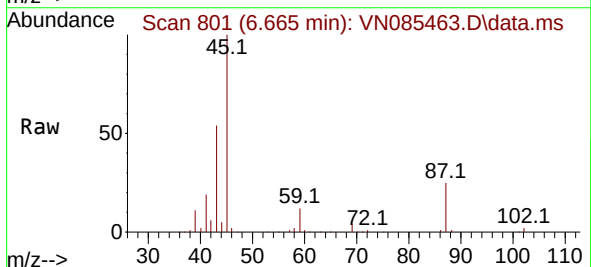
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

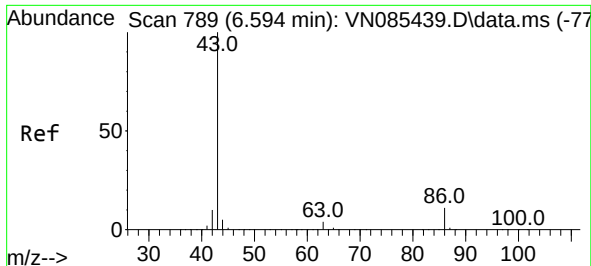
Tgt Ion: 96 Resp: 127358
Ion Ratio Lower Upper
96 100
61 151.2 115.7 173.5
98 64.1 49.8 74.8



#22
Diisopropyl ether
Concen: 55.286 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 45 Resp: 467061
Ion Ratio Lower Upper
45 100
43 53.5 45.0 67.6
87 25.2 21.8 32.8
59 11.9 10.2 15.2

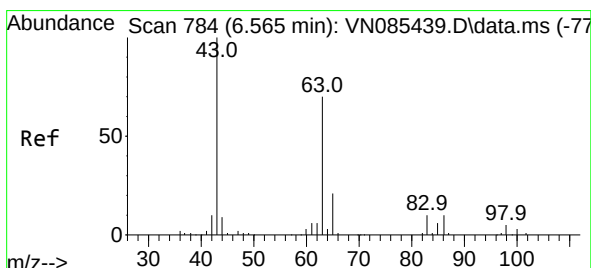
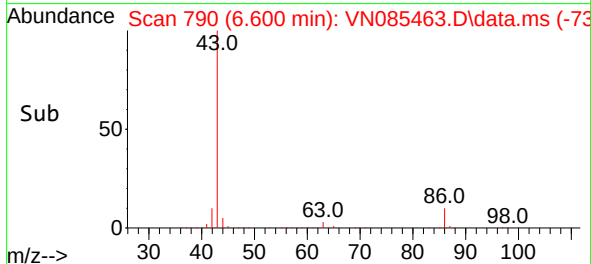
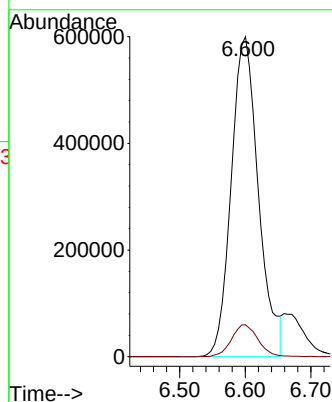
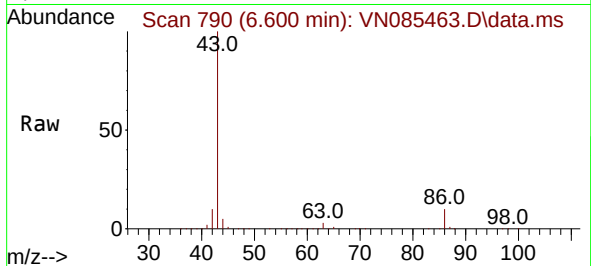




#23
 Vinyl Acetate
 Concen: 292.883 ug/l
 RT: 6.600 min Scan# 790
 Delta R.T. 0.006 min
 Lab File: VN085463.D
 Acq: 15 Jan 2025 15:58

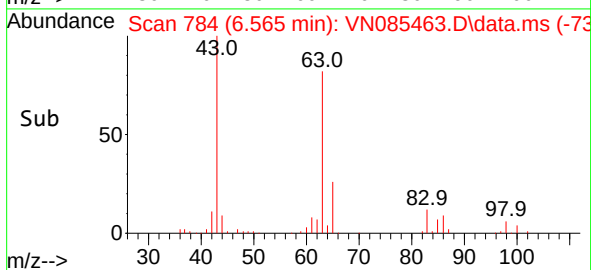
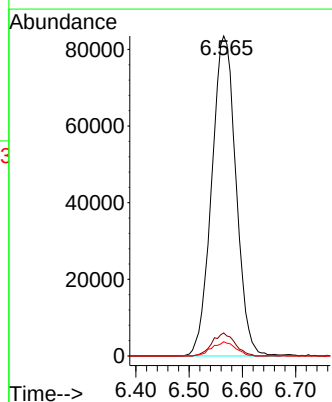
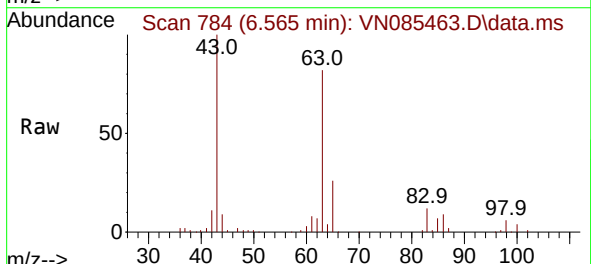
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

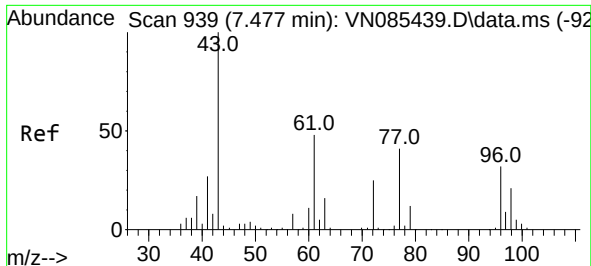
Tgt Ion: 43 Resp: 1731604
 Ion Ratio Lower Upper
 43 100
 86 9.9 8.4 12.6



#24
 1,1-Dichloroethane
 Concen: 51.287 ug/l
 RT: 6.565 min Scan# 784
 Delta R.T. -0.000 min
 Lab File: VN085463.D
 Acq: 15 Jan 2025 15:58

Tgt Ion: 63 Resp: 264195
 Ion Ratio Lower Upper
 63 100
 98 7.2 3.3 9.8
 100 4.5 2.0 6.0

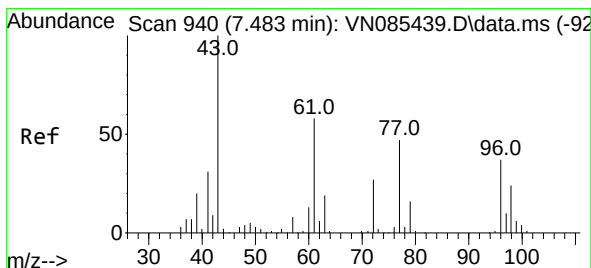
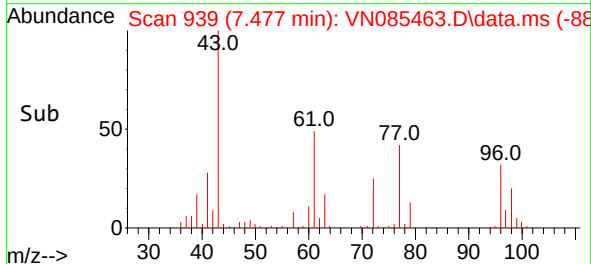
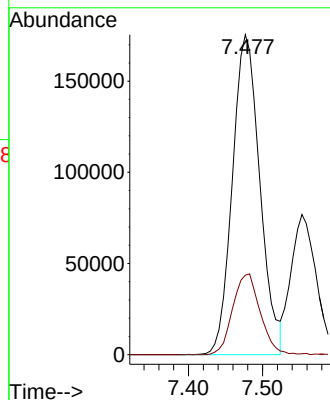
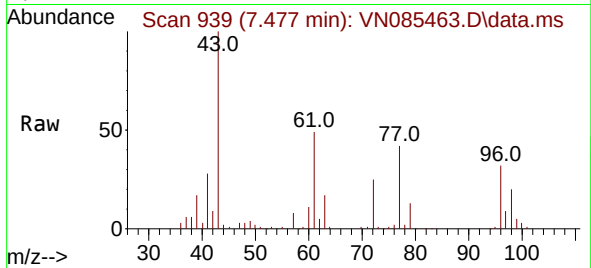




#25
2-Butanone
Concen: 269.467 ug/l
RT: 7.477 min Scan# 910
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

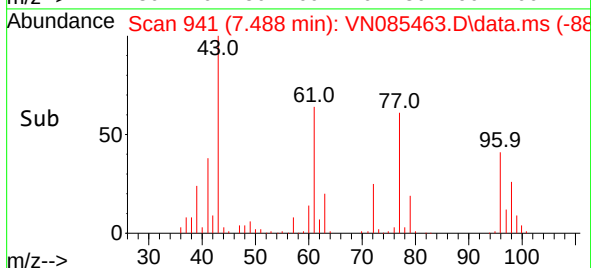
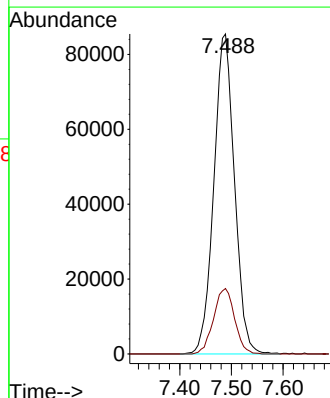
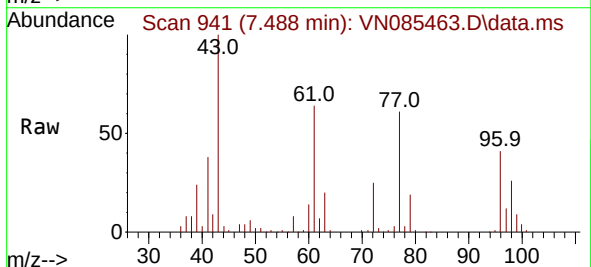
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

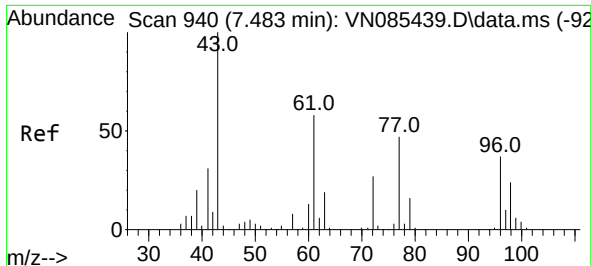
Tgt Ion: 43 Resp: 452029
Ion Ratio Lower Upper
43 100
72 24.8 20.2 30.4



#26
2,2-Dichloropropane
Concen: 56.857 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 77 Resp: 236796
Ion Ratio Lower Upper
77 100
97 20.8 10.7 32.1



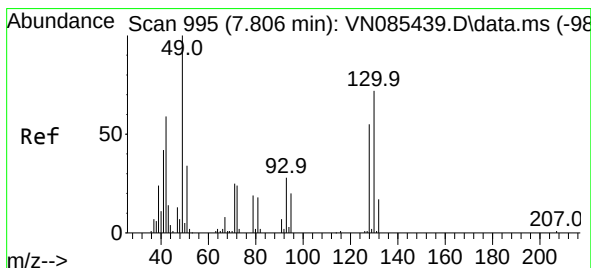
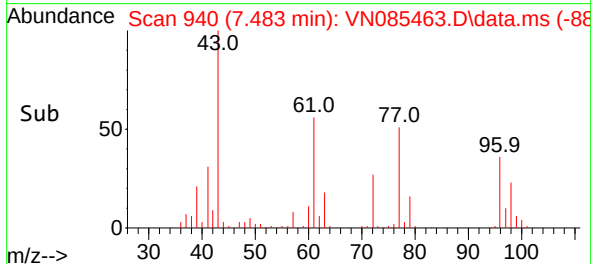
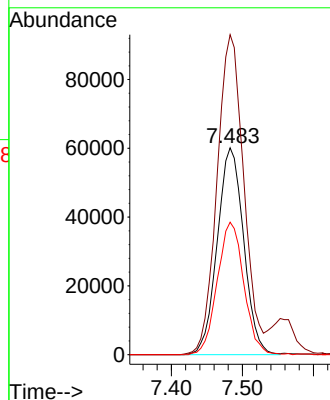
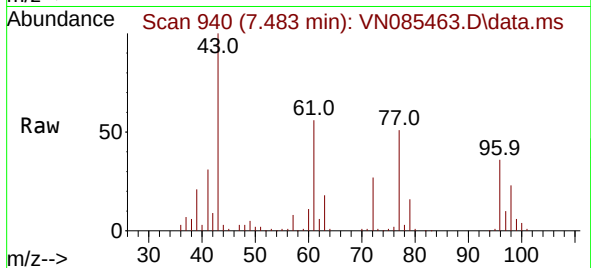


#27
 cis-1,2-Dichloroethene
 Concen: 52.557 ug/l
 RT: 7.483 min Scan# 940
 Delta R.T. -0.000 min
 Lab File: VN085463.D
 Acq: 15 Jan 2025 15:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 96 Resp: 155179

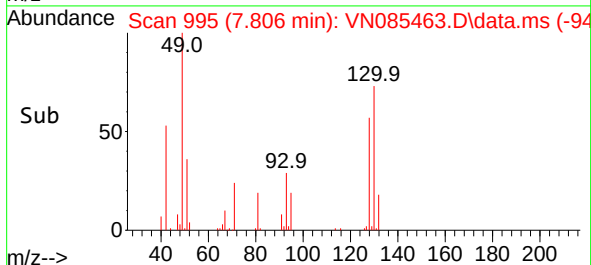
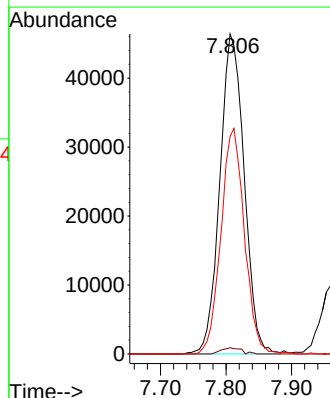
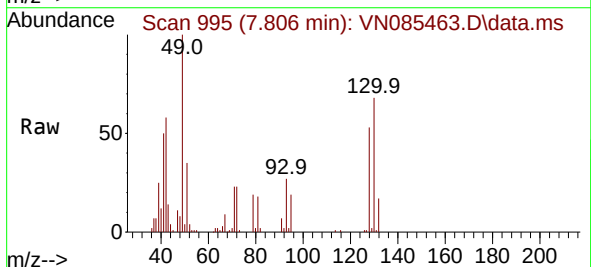
Ion	Ratio	Lower	Upper
96	100		
61	156.3	0.0	311.8
98	64.4	0.0	126.0

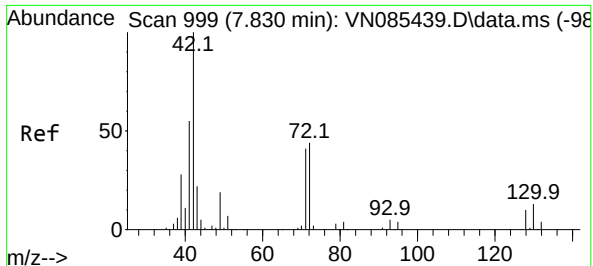


#28
 Bromochloromethane
 Concen: 49.837 ug/l
 RT: 7.806 min Scan# 995
 Delta R.T. -0.000 min
 Lab File: VN085463.D
 Acq: 15 Jan 2025 15:58

Tgt Ion: 49 Resp: 119440

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	4.4
130	68.0	55.0	82.4





#29

Tetrahydrofuran

Concen: 284.562 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

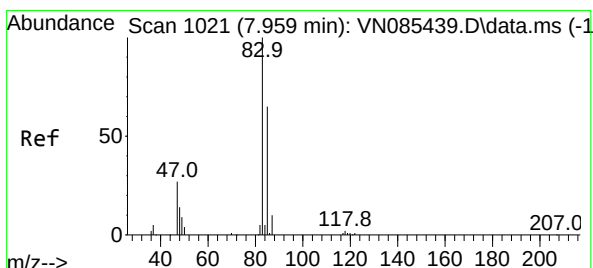
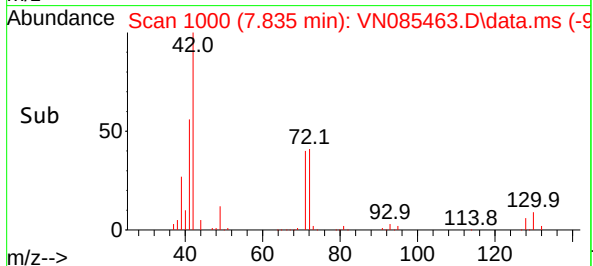
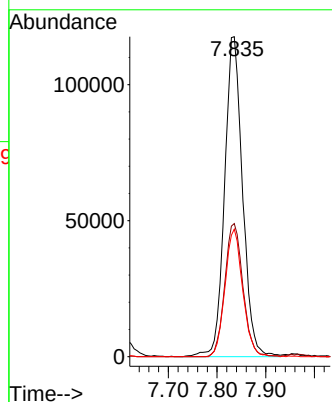
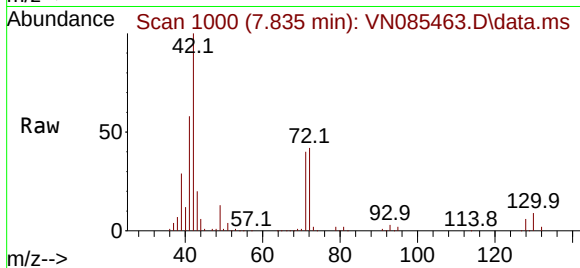
Tgt Ion: 42 Resp: 302642

Ion Ratio Lower Upper

42 100

72 42.0 34.2 51.2

71 39.2 32.5 48.7



#30

Chloroform

Concen: 51.054 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085463.D

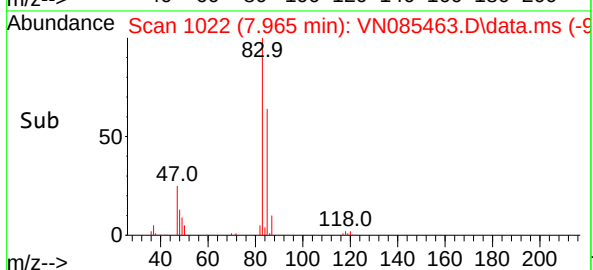
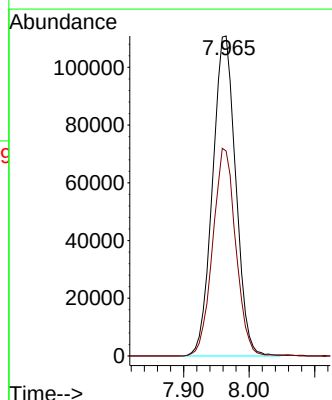
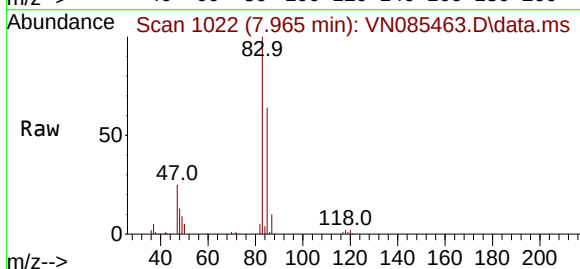
Acq: 15 Jan 2025 15:58

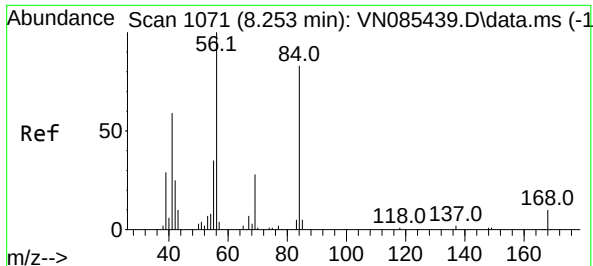
Tgt Ion: 83 Resp: 271813

Ion Ratio Lower Upper

83 100

85 64.1 51.8 77.6

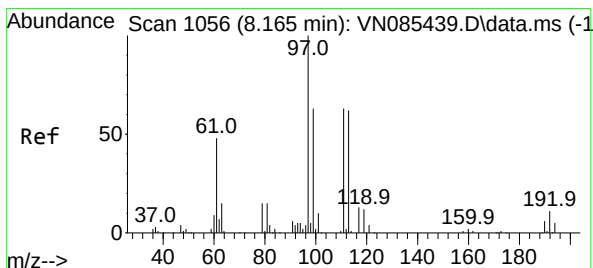
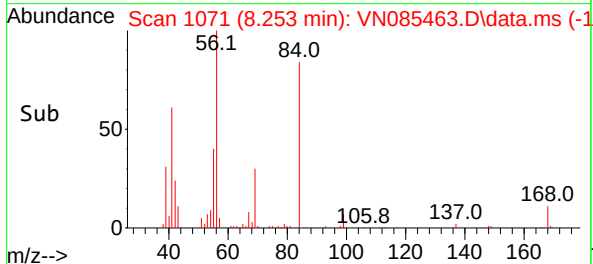
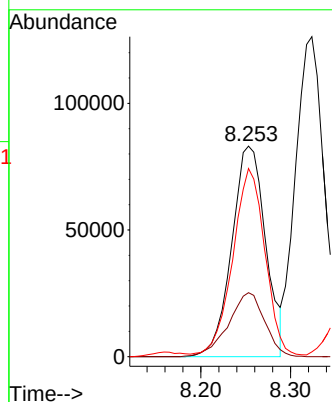
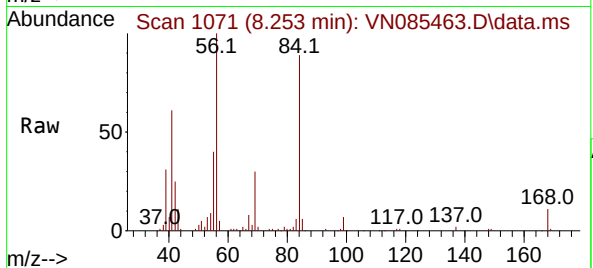




#31
Cyclohexane
Concen: 48.757 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

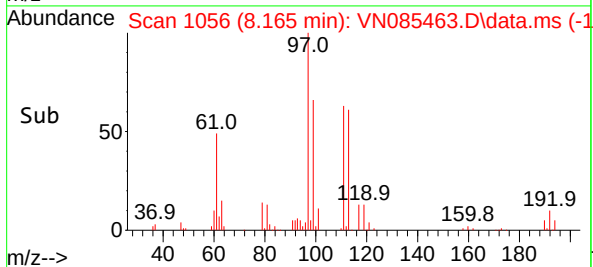
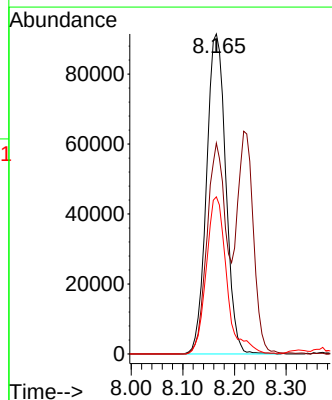
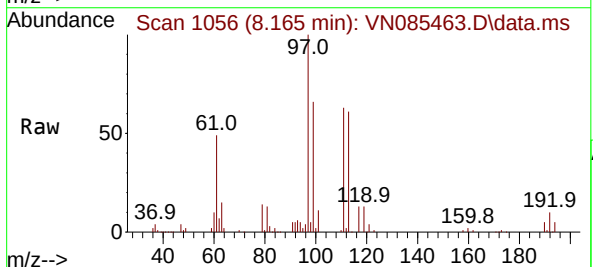
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

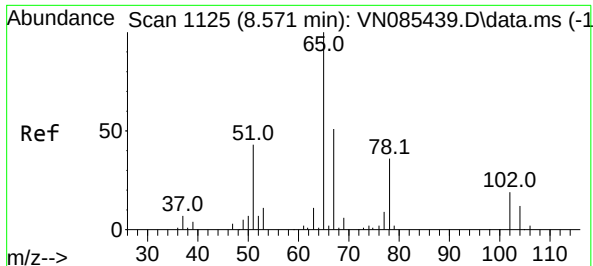
Tgt Ion: 56 Resp: 218304
Ion Ratio Lower Upper
56 100
69 30.4 22.2 33.4
84 87.7 66.4 99.6



#32
1,1,1-Trichloroethane
Concen: 50.757 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 97 Resp: 237039
Ion Ratio Lower Upper
97 100
99 65.5 49.8 74.6
61 52.1 41.4 62.2





#33

1,2-Dichloroethane-d4

Concen: 52.114 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

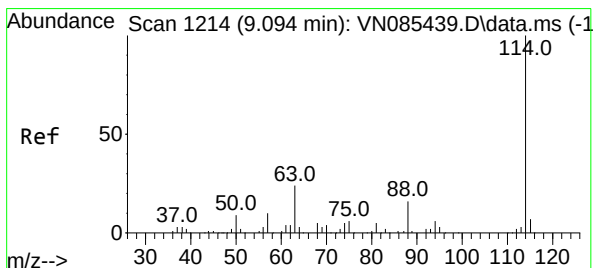
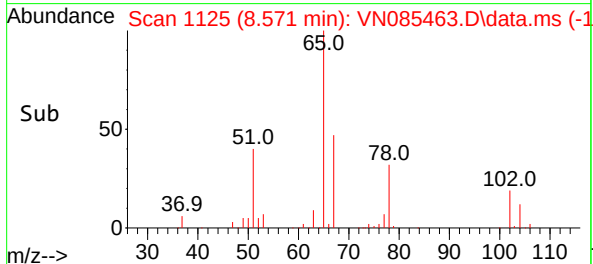
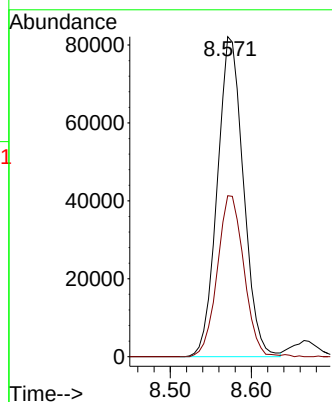
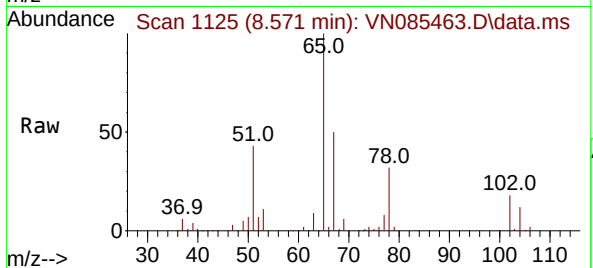
VSTDCCC050EC

Tgt Ion: 65 Resp: 183857

Ion Ratio Lower Upper

65 100

67 51.2 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

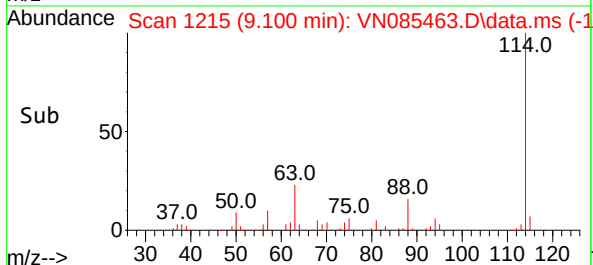
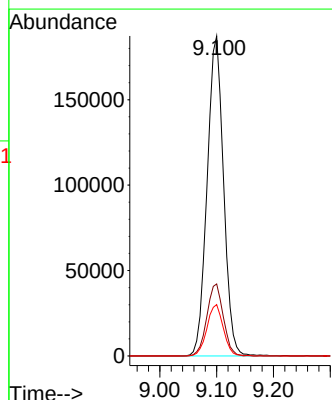
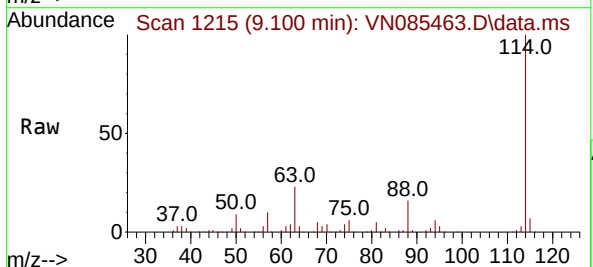
Tgt Ion: 114 Resp: 374640

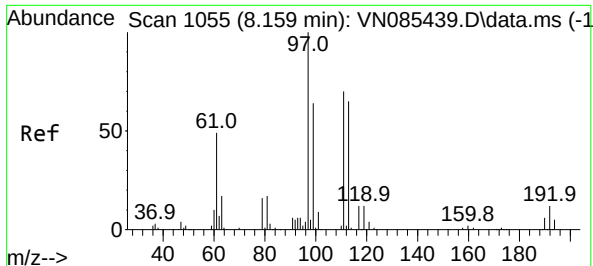
Ion Ratio Lower Upper

114 100

63 22.5 0.0 47.6

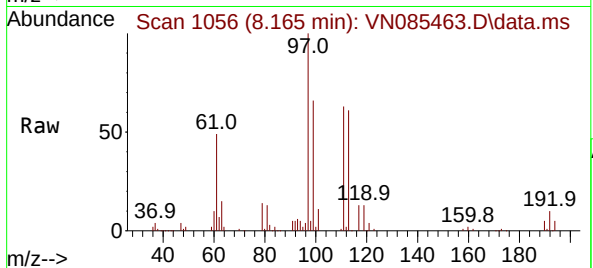
88 16.1 0.0 32.6



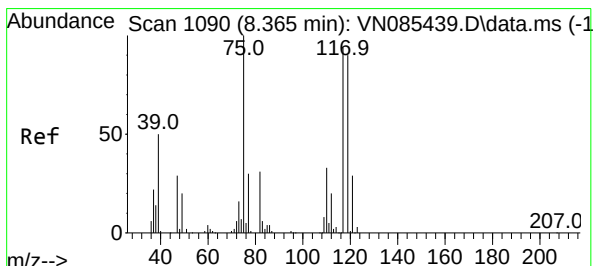
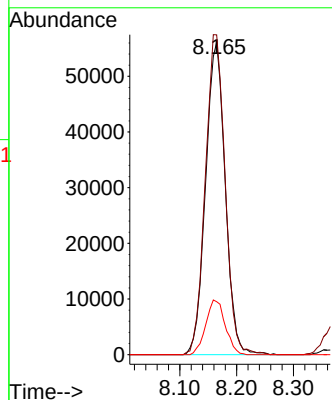
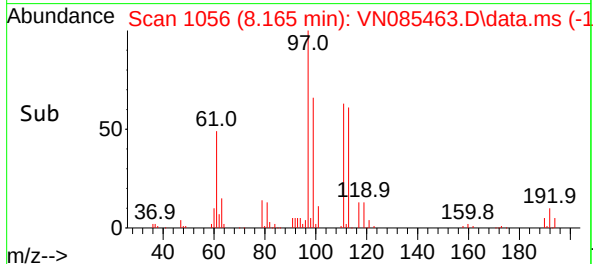


#35
Dibromofluoromethane
Concen: 51.677 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

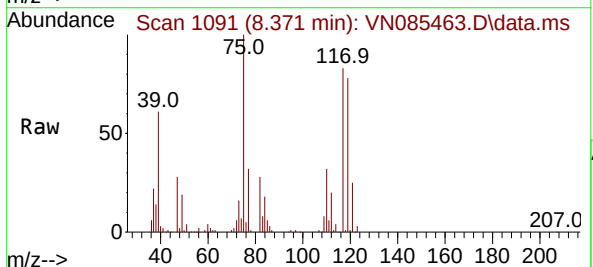
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



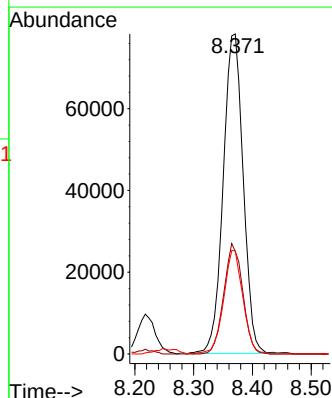
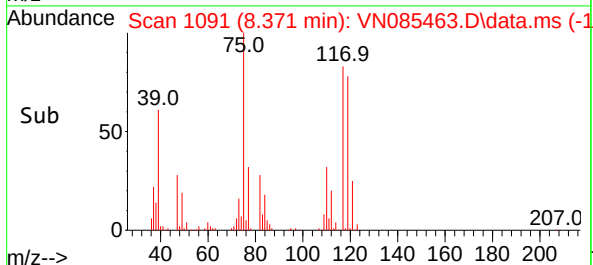
Tgt Ion:113 Resp: 134312
Ion Ratio Lower Upper
113 100
111 103.3 82.7 124.1
192 17.4 14.3 21.5

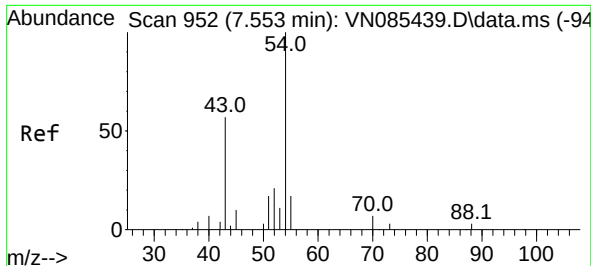


#36
1,1-Dichloropropene
Concen: 50.562 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58



Tgt Ion: 75 Resp: 184438
Ion Ratio Lower Upper
75 100
110 32.8 16.5 49.5
77 31.2 24.4 36.6





#37

Ethyl Acetate

Concen: 50.810 ug/l

RT: 7.553 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

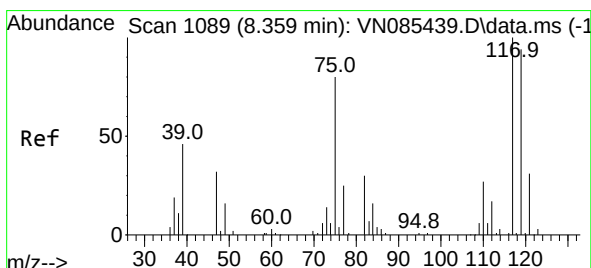
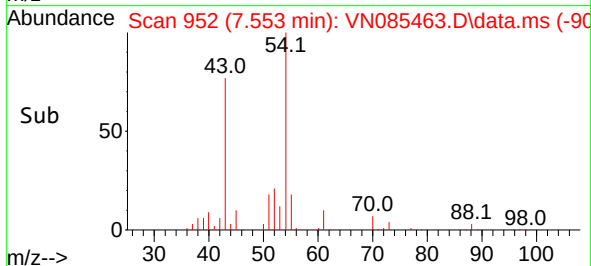
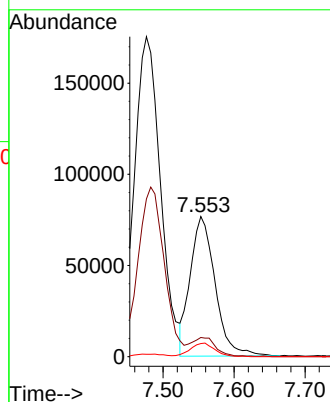
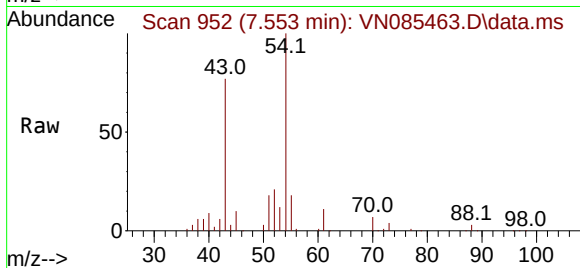
Tgt Ion: 43 Resp: 187078

Ion Ratio Lower Upper

43 100

61 12.1 10.9 16.3

70 9.6 7.5 11.3



#38

Carbon Tetrachloride

Concen: 50.991 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

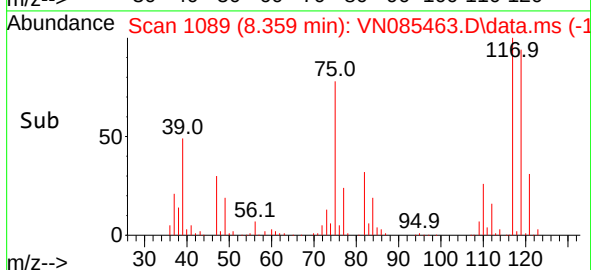
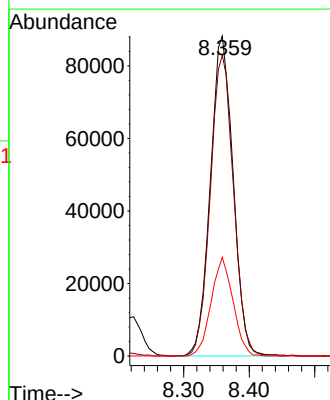
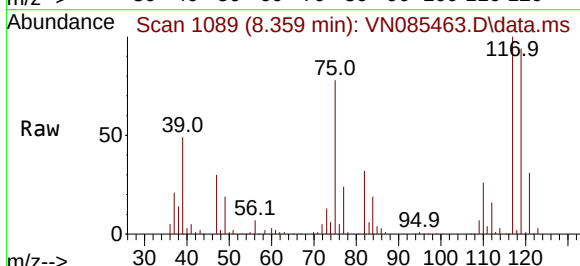
Tgt Ion: 117 Resp: 212942

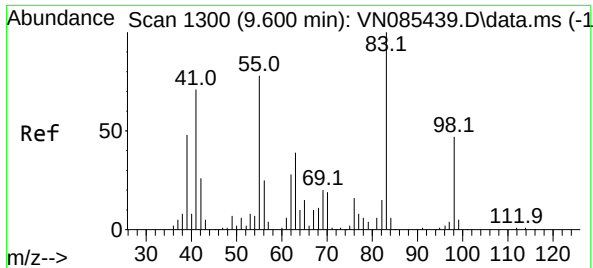
Ion Ratio Lower Upper

117 100

119 93.8 75.4 113.2

121 30.8 24.6 37.0





#39

Methylcyclohexane

Concen: 57.436 ug/l

RT: 9.594 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

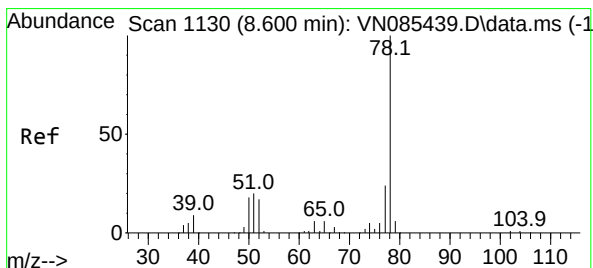
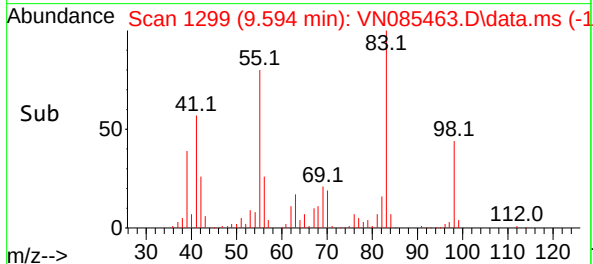
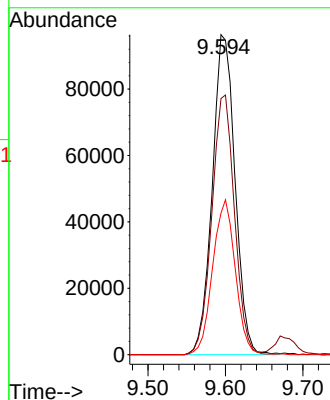
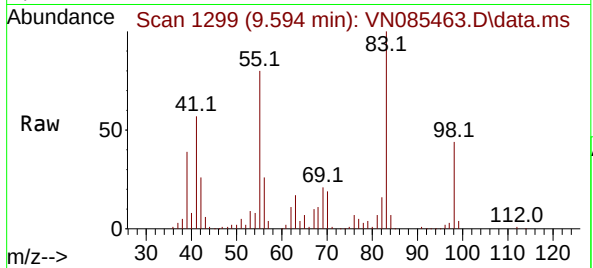
Tgt Ion: 83 Resp: 196879

Ion Ratio Lower Upper

83 100

55 80.1 62.6 94.0

98 44.2 37.7 56.5



#40

Benzene

Concen: 51.821 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085463.D

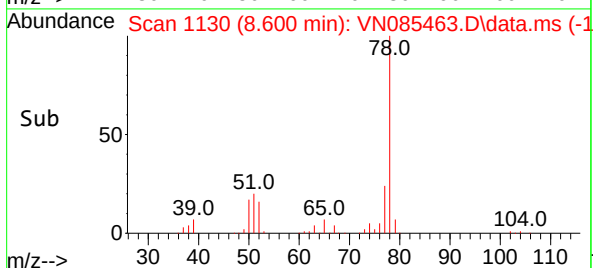
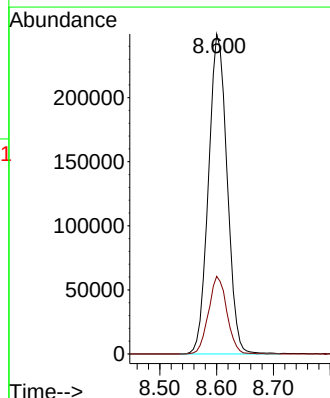
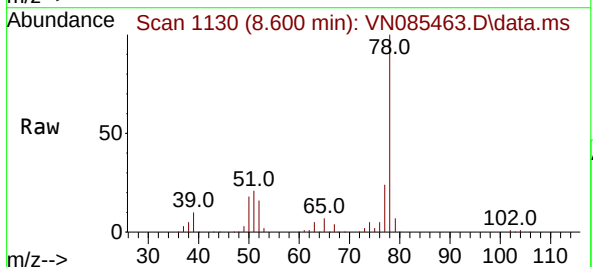
Acq: 15 Jan 2025 15:58

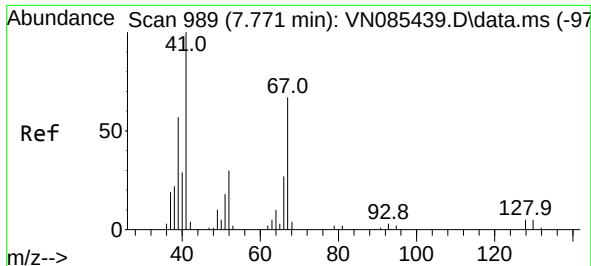
Tgt Ion: 78 Resp: 567975

Ion Ratio Lower Upper

78 100

77 24.3 19.0 28.6



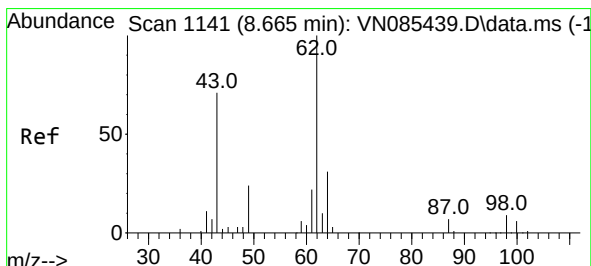
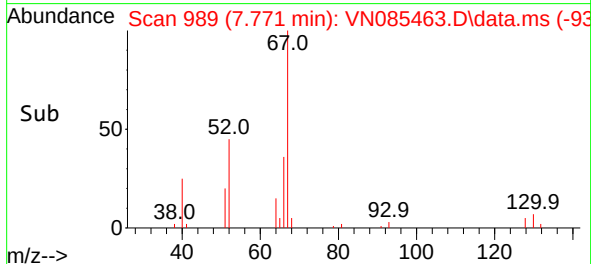
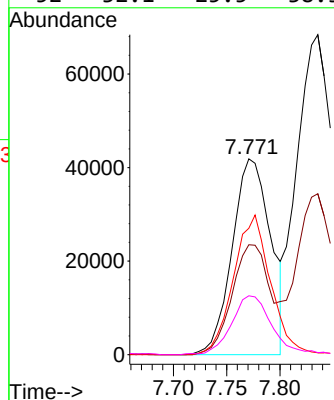
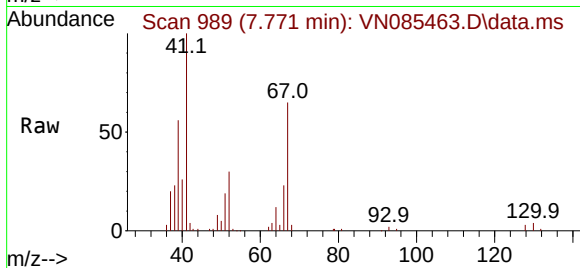


#41
Methacrylonitrile
Concen: 54.981 ug/l
RT: 7.771 min Scan# 911
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 105319

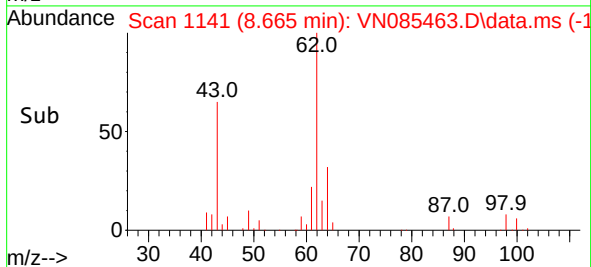
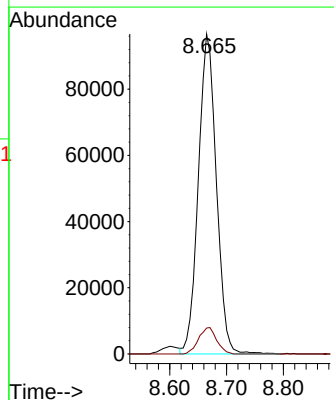
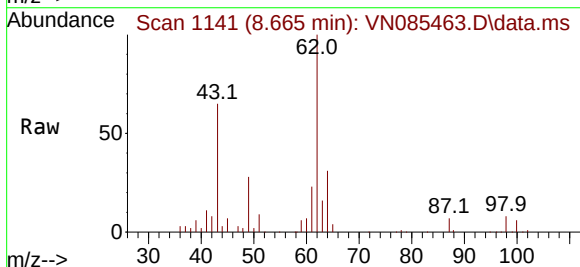
Ion	Ratio	Lower	Upper
41	100		
39	56.3	46.0	69.0
67	68.8	57.4	86.2
52	32.1	25.5	38.3

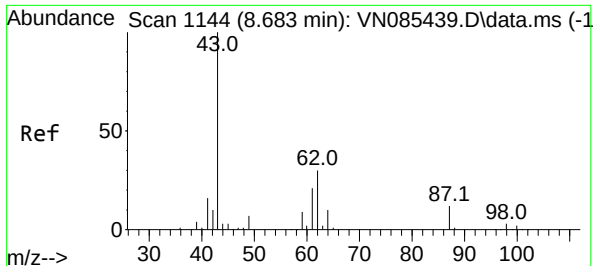


#42
1,2-Dichloroethane
Concen: 51.629 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 62 Resp: 213125

Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	17.0





#43

Isopropyl Acetate

Concen: 57.599 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

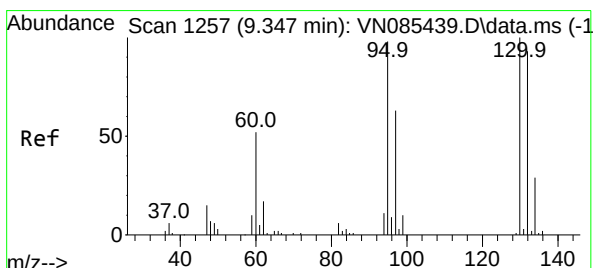
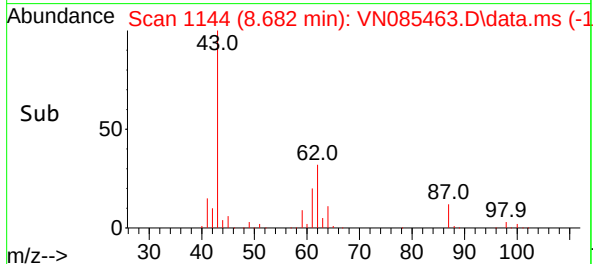
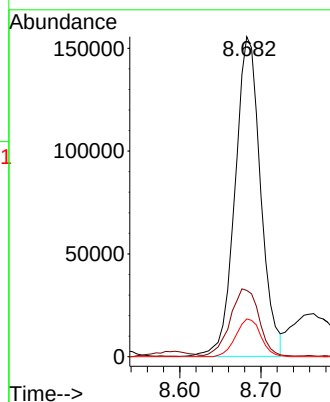
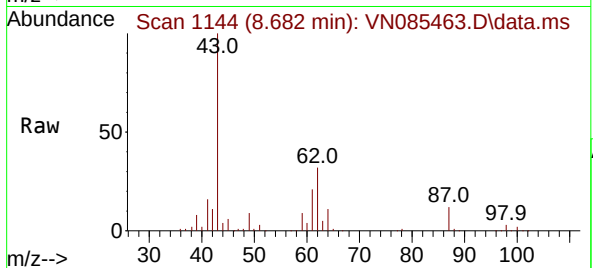
Tgt Ion: 43 Resp: 339818

Ion Ratio Lower Upper

43 100

61 23.7 20.7 31.1

87 11.5 9.8 14.8



#44

Trichloroethene

Concen: 49.260 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.000 min

Lab File: VN085463.D

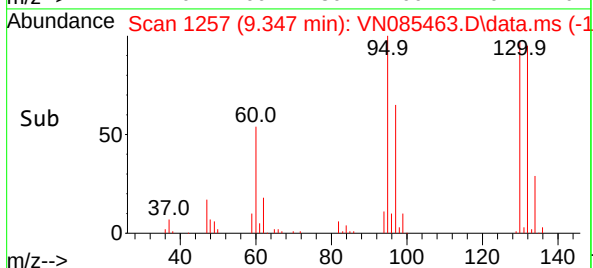
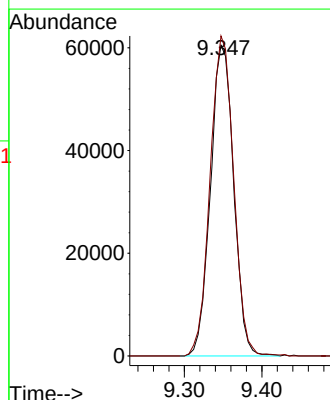
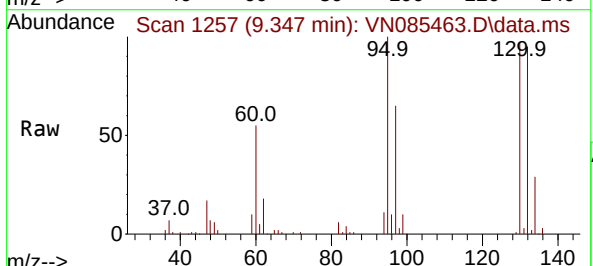
Acq: 15 Jan 2025 15:58

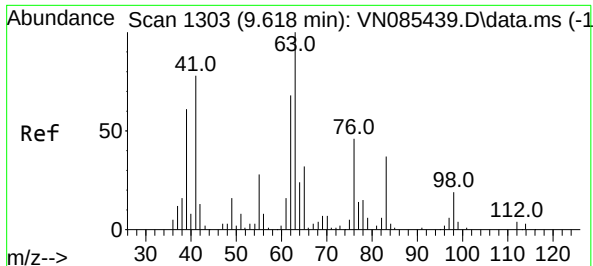
Tgt Ion:130 Resp: 125677

Ion Ratio Lower Upper

130 100

95 103.0 0.0 195.8





#45

1,2-Dichloropropane

Concen: 51.043 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

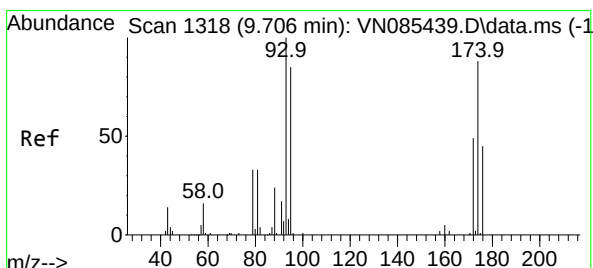
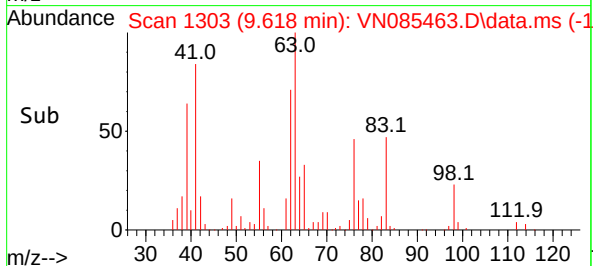
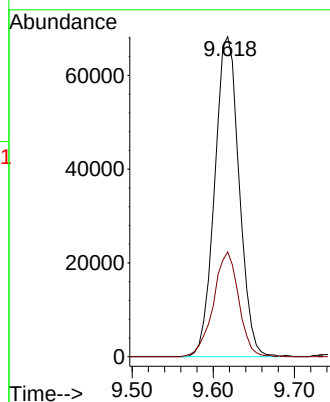
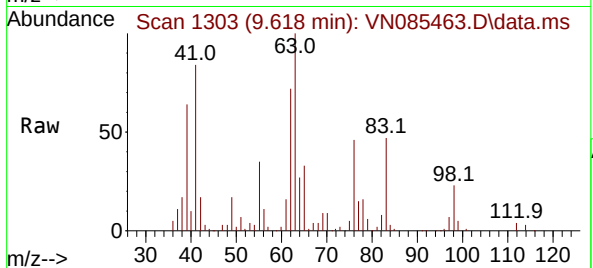
VSTDCCC050EC

Tgt Ion: 63 Resp: 142897

Ion Ratio Lower Upper

63 100

65 32.7 25.6 38.4



#46

Dibromomethane

Concen: 49.750 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

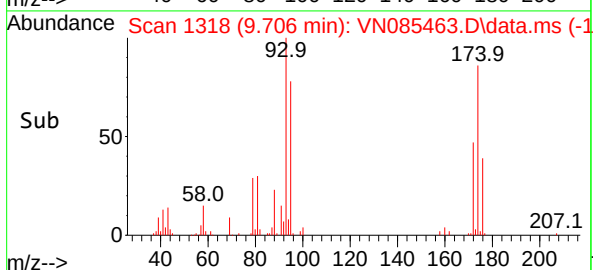
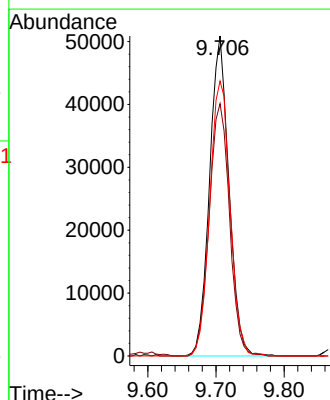
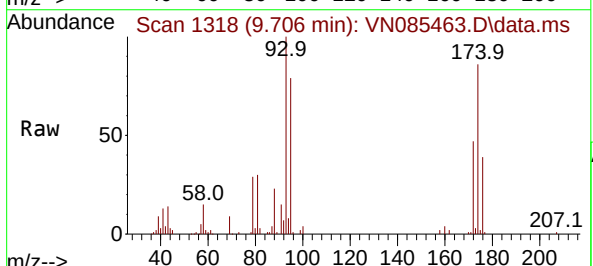
Tgt Ion: 93 Resp: 100497

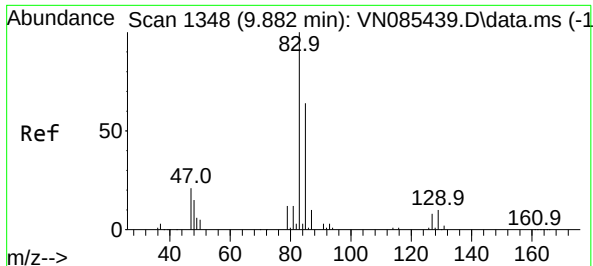
Ion Ratio Lower Upper

93 100

95 82.8 64.7 97.1

174 90.0 69.0 103.4

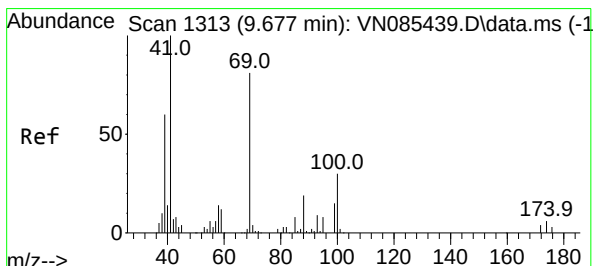
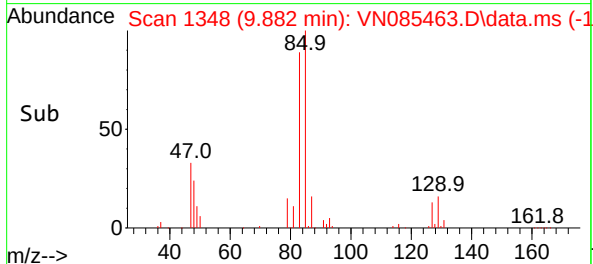
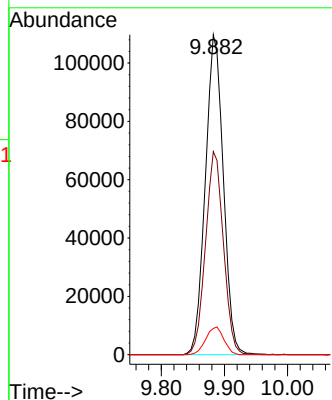
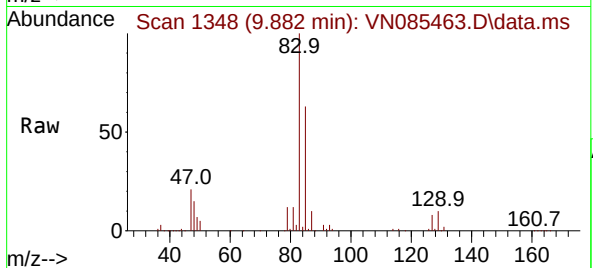




#47
Bromodichloromethane
Concen: 52.814 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. 0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

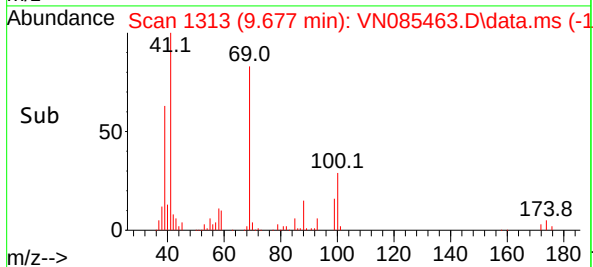
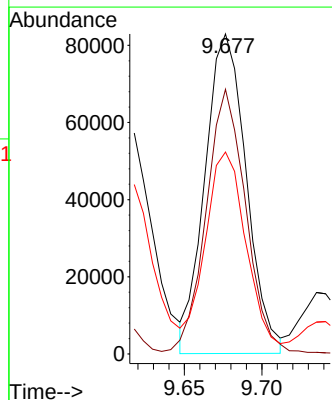
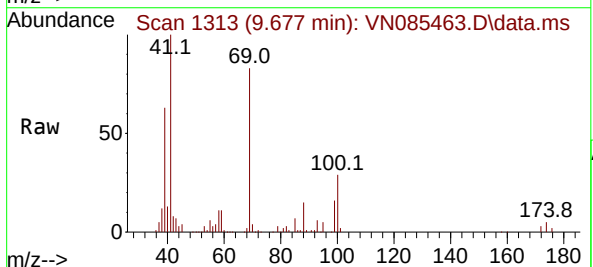
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

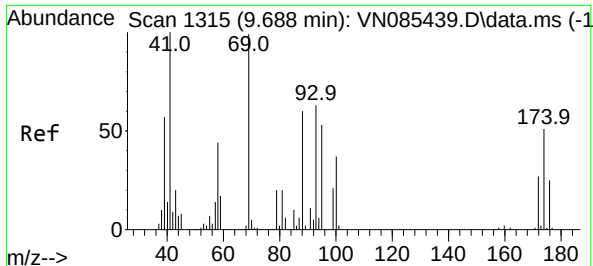
Tgt Ion: 83 Resp: 217353
Ion Ratio Lower Upper
83 100
85 63.5 51.2 76.8
127 8.2 6.5 9.7



#48
Methyl methacrylate
Concen: 57.796 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 41 Resp: 153447
Ion Ratio Lower Upper
41 100
69 80.2 64.7 97.1
39 63.2 49.0 73.6





#49

1,4-Dioxane

Concen: 972.836 ug/l

RT: 9.688 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

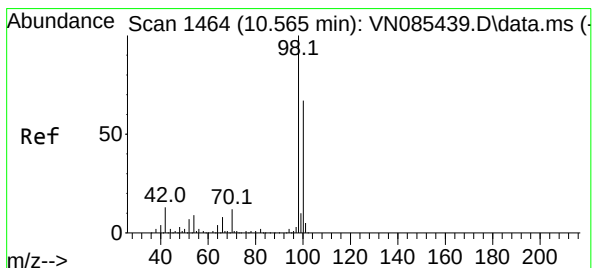
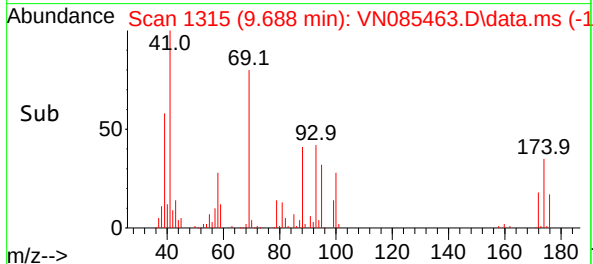
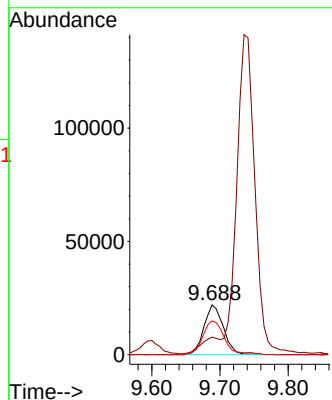
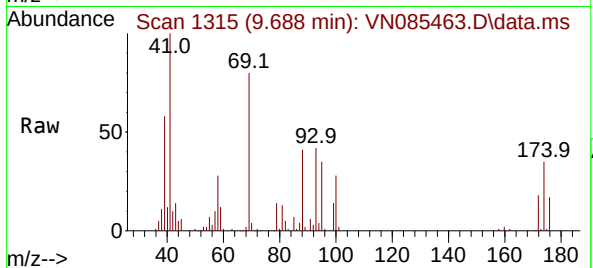
Tgt Ion: 88 Resp: 43495

Ion Ratio Lower Upper

88 100

43 32.9 26.6 39.8

58 75.2 59.5 89.3



#50

Toluene-d8

Concen: 54.009 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085463.D

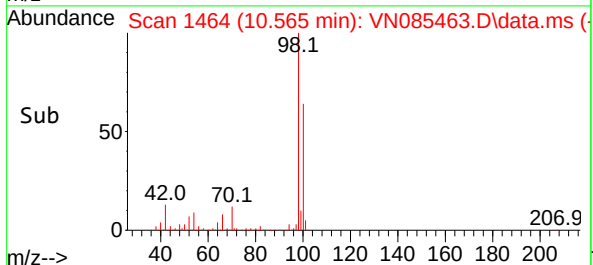
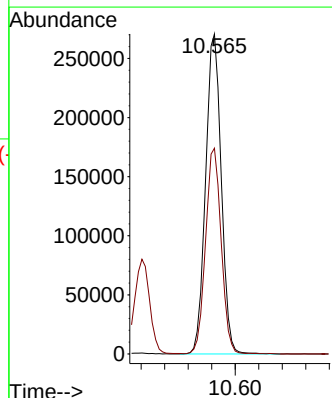
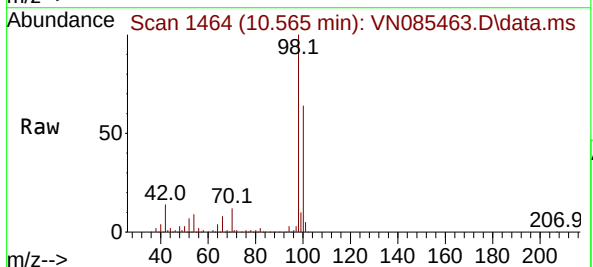
Acq: 15 Jan 2025 15:58

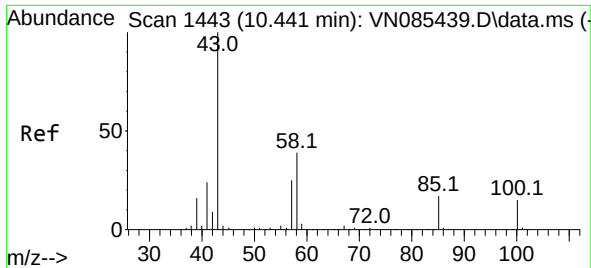
Tgt Ion: 98 Resp: 498748

Ion Ratio Lower Upper

98 100

100 64.2 52.2 78.4

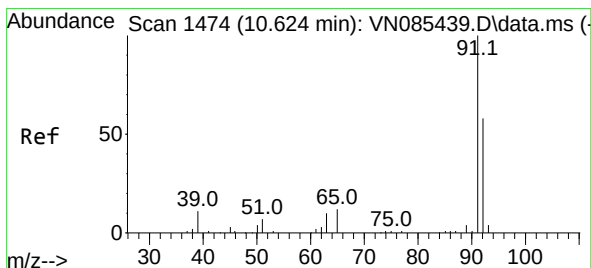
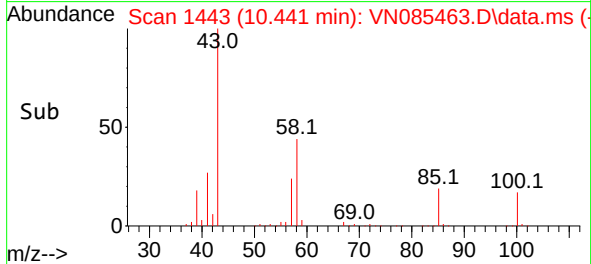
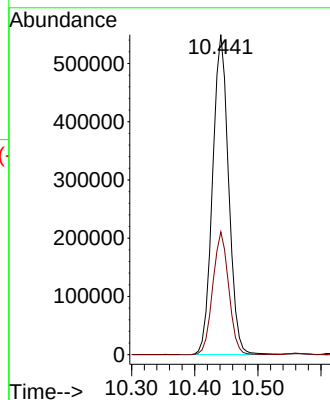
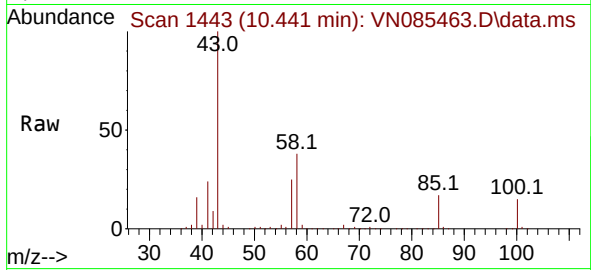




#51
4-Methyl-2-Pentanone
Concen: 282.679 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

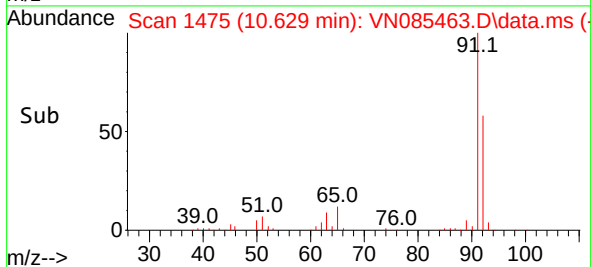
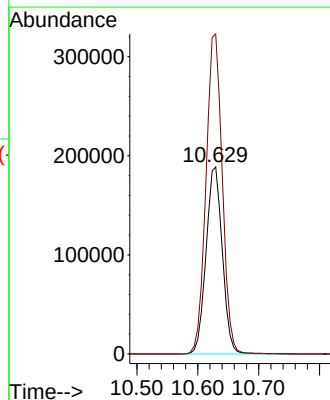
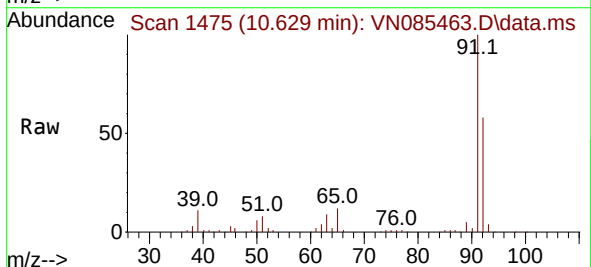
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

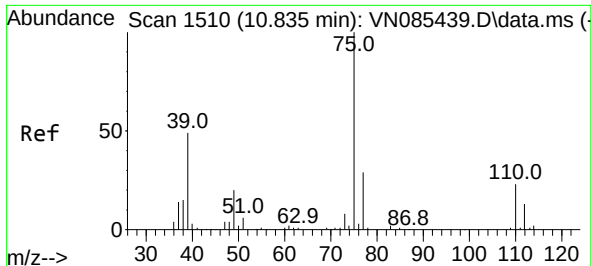
Tgt Ion: 43 Resp: 967748
Ion Ratio Lower Upper
43 100
58 38.2 30.5 45.7



#52
Toluene
Concen: 55.032 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 92 Resp: 349488
Ion Ratio Lower Upper
92 100
91 171.6 139.2 208.8

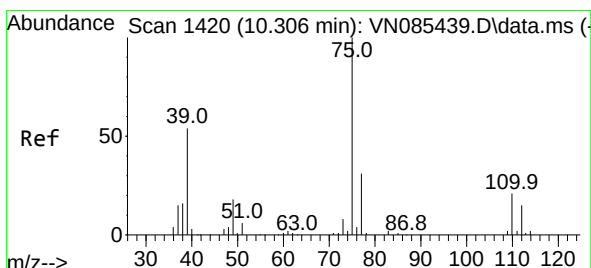
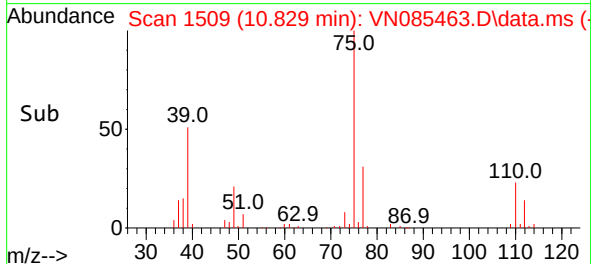
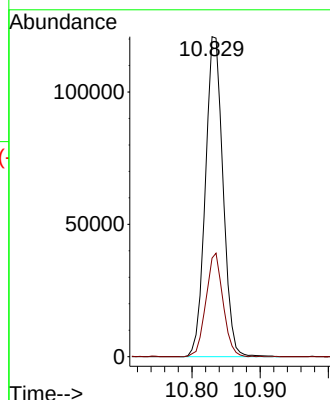
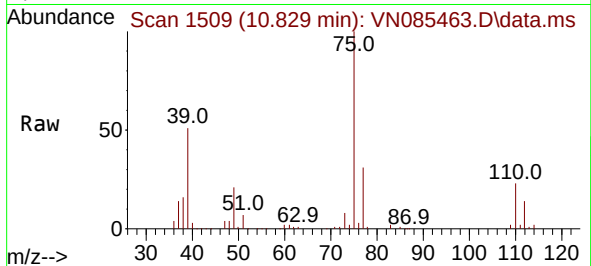




#53
t-1,3-Dichloropropene
Concen: 55.946 ug/l
RT: 10.829 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

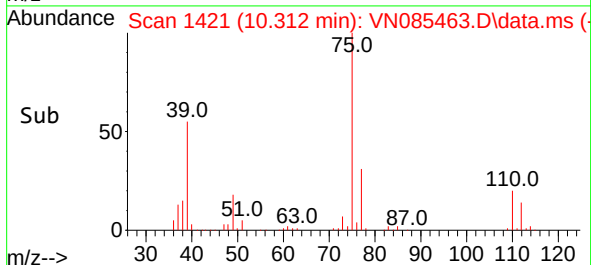
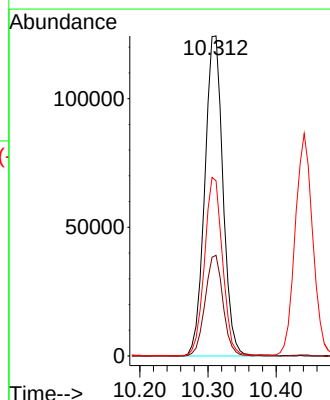
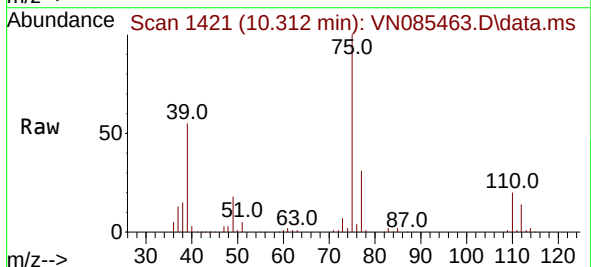
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

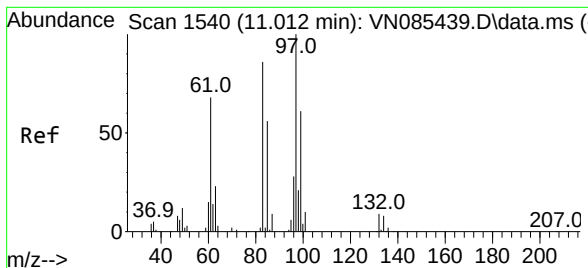
Tgt Ion: 75 Resp: 217586
Ion Ratio Lower Upper
75 100
77 30.8 23.5 35.3



#54
cis-1,3-Dichloropropene
Concen: 55.661 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 75 Resp: 231235
Ion Ratio Lower Upper
75 100
77 31.4 25.0 37.4
39 54.6 43.1 64.7





#55

1,1,2-Trichloroethane

Concen: 51.759 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 97 Resp: 130083

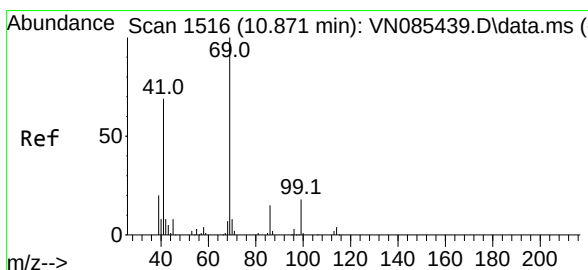
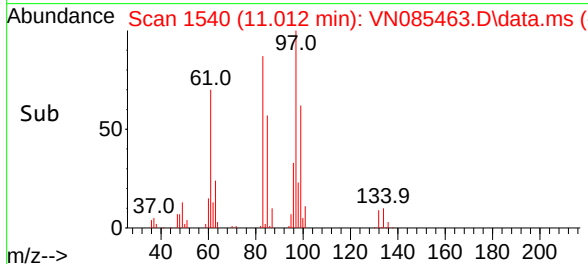
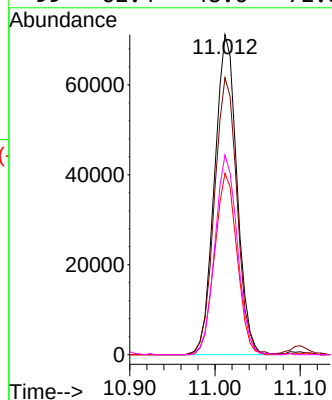
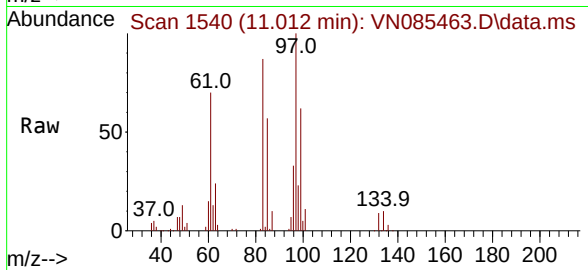
Ion Ratio Lower Upper

97 100

83 86.5 69.0 103.6

85 56.7 44.6 66.8

99 62.4 48.6 72.8



#56

Ethyl methacrylate

Concen: 49.885 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

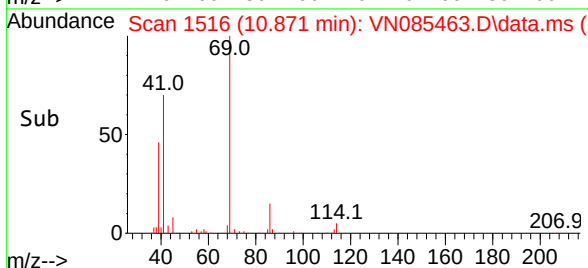
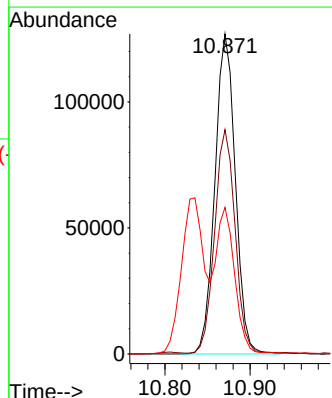
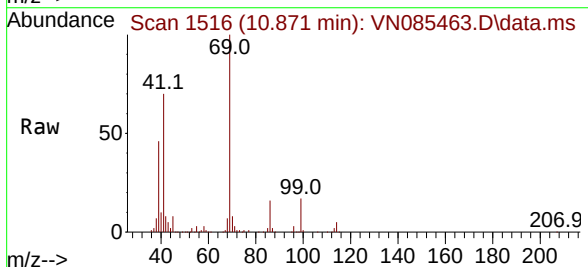
Tgt Ion: 69 Resp: 211176

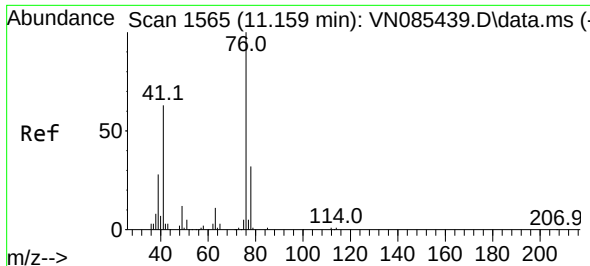
Ion Ratio Lower Upper

69 100

41 70.3 54.6 82.0

39 41.5 32.4 48.6





#57

1,3-Dichloropropane

Concen: 53.338 ug/l

RT: 11.159 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

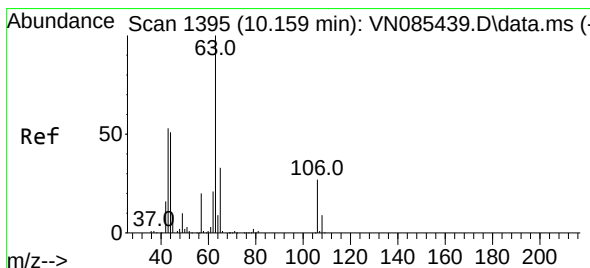
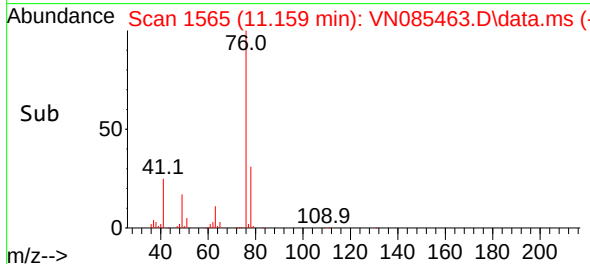
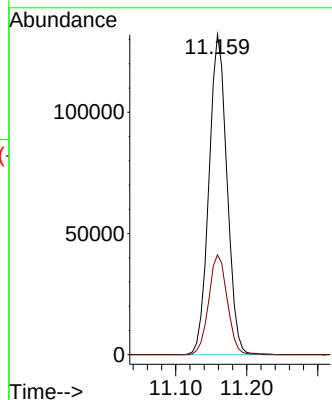
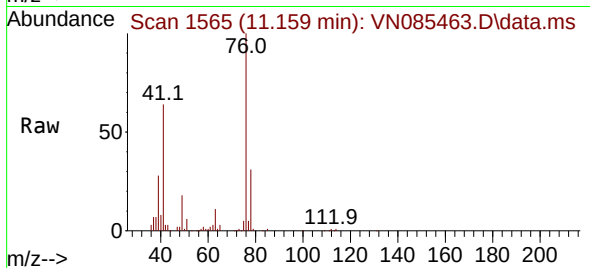
VSTDCCC050EC

Tgt Ion: 76 Resp: 233088

Ion Ratio Lower Upper

76 100

78 32.0 25.6 38.4



#58

2-Chloroethyl Vinyl ether

Concen: 290.228 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN085463.D

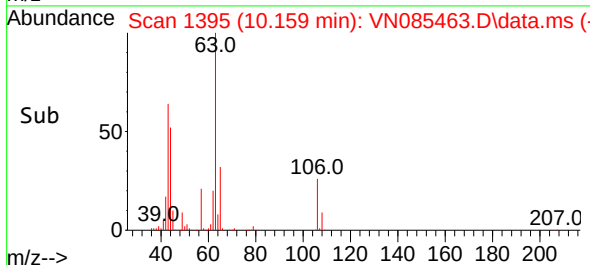
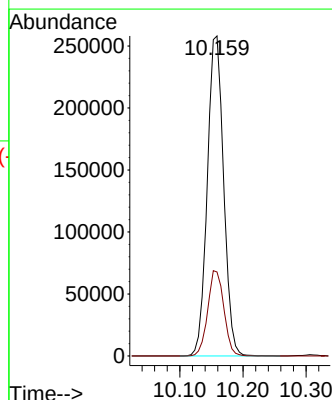
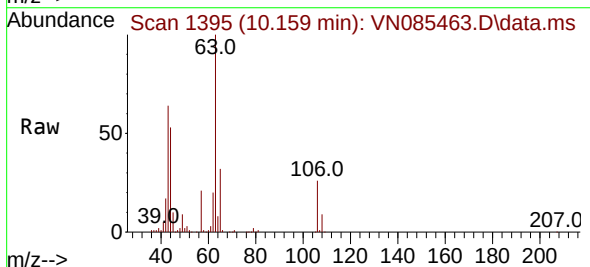
Acq: 15 Jan 2025 15:58

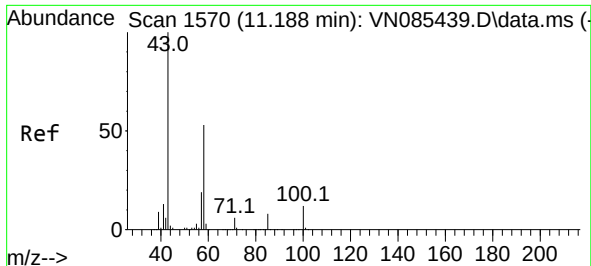
Tgt Ion: 63 Resp: 462882

Ion Ratio Lower Upper

63 100

106 26.4 21.6 32.4

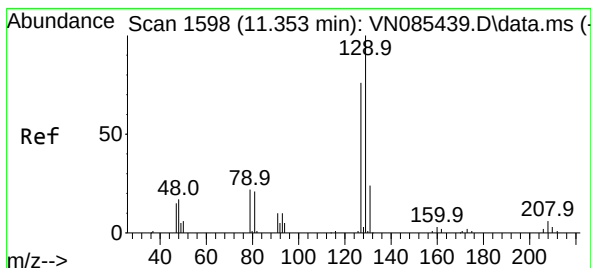
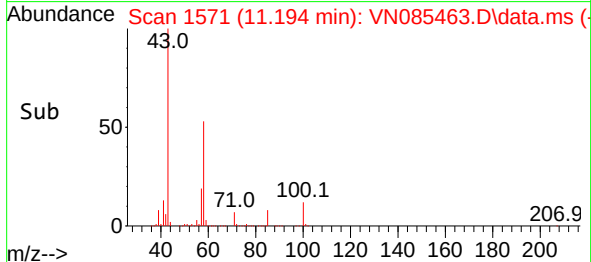
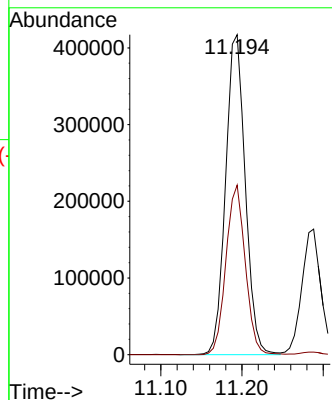
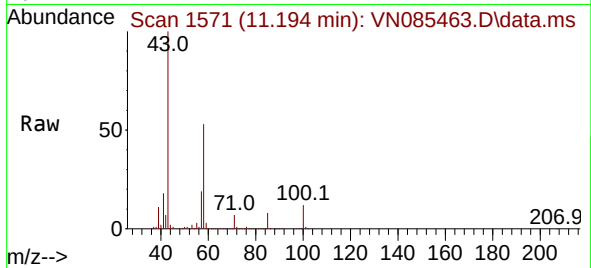




#59
2-Hexanone
Concen: 292.136 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

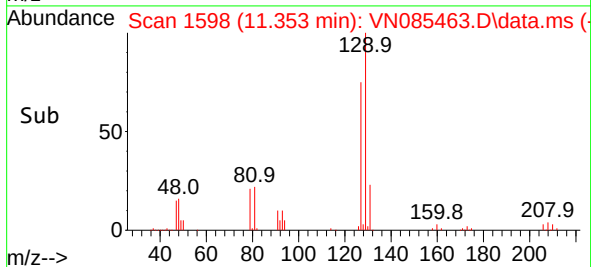
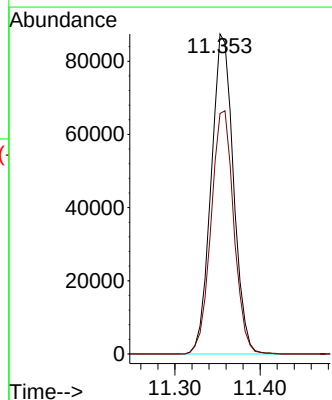
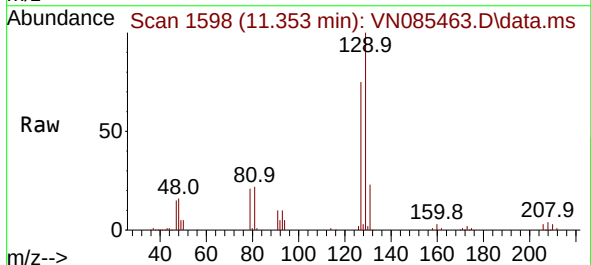
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

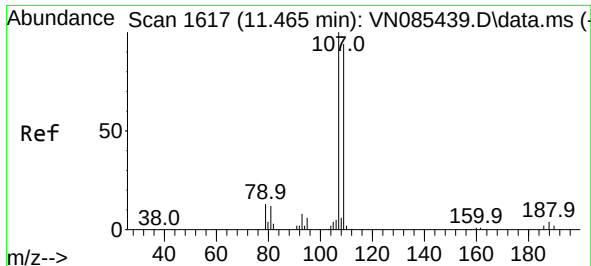
Tgt Ion: 43 Resp: 703719
Ion Ratio Lower Upper
43 100
58 52.0 26.2 78.6



#60
Dibromochloromethane
Concen: 52.339 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:129 Resp: 158806
Ion Ratio Lower Upper
129 100
127 77.4 38.6 115.8

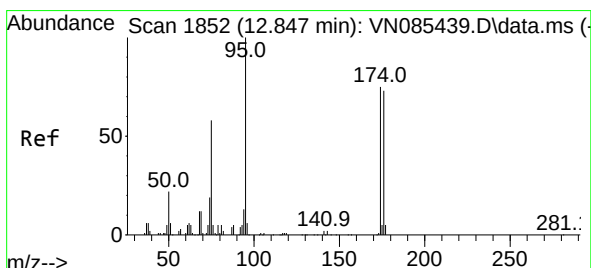
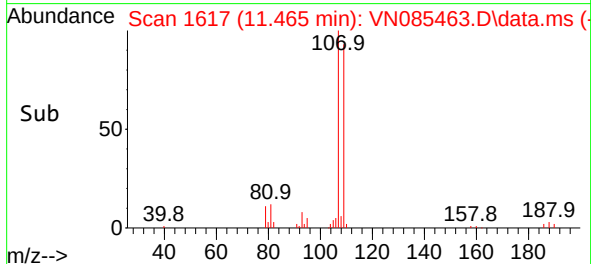
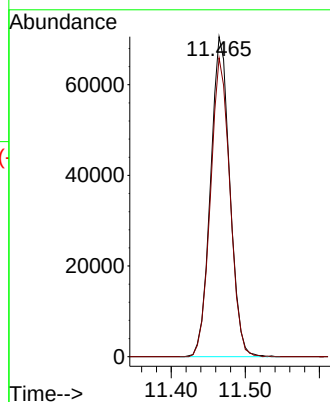
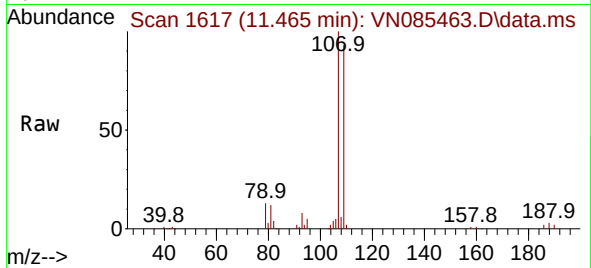




#61
1,2-Dibromoethane
Concen: 51.040 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

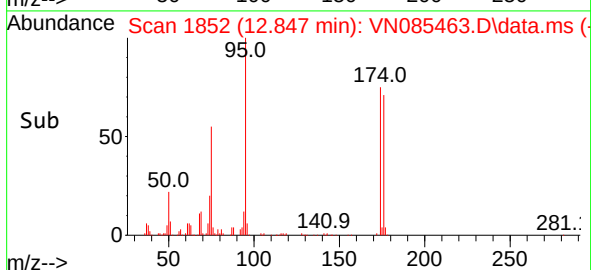
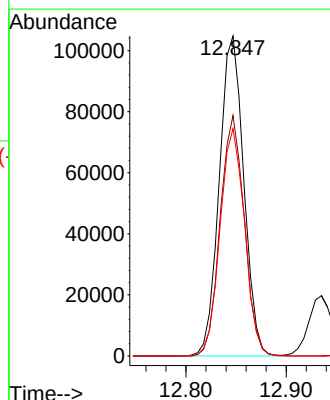
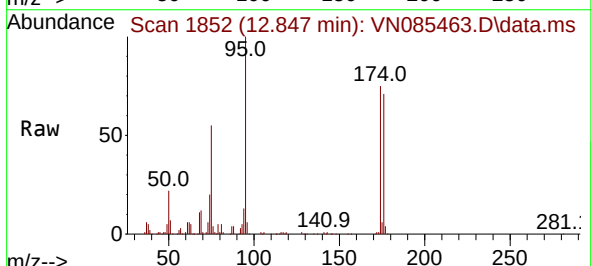
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

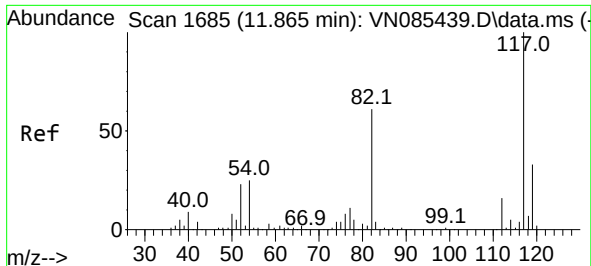
Tgt Ion:107 Resp: 127688
Ion Ratio Lower Upper
107 100
109 94.2 75.9 113.9



#62
4-Bromofluorobenzene
Concen: 56.127 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 95 Resp: 177300
Ion Ratio Lower Upper
95 100
174 73.9 0.0 145.0
176 71.4 0.0 142.4

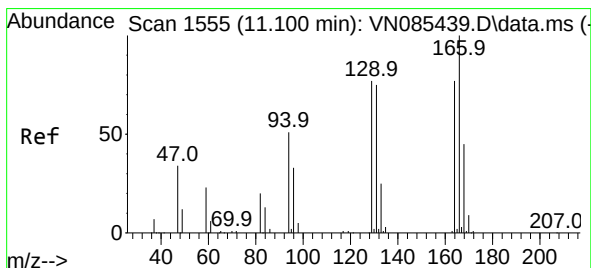
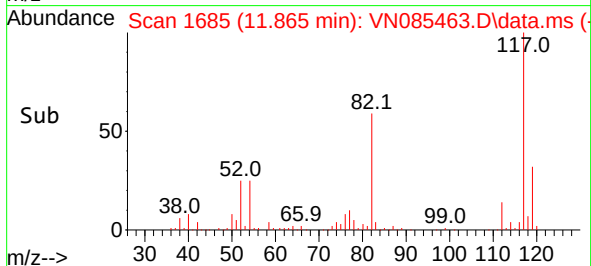
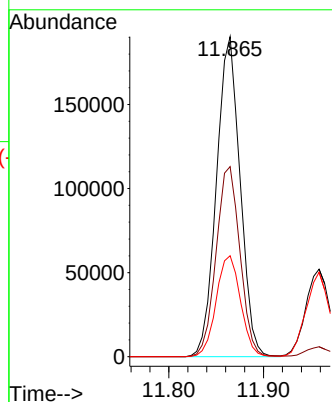
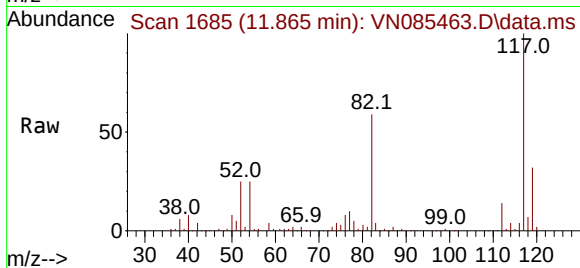




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

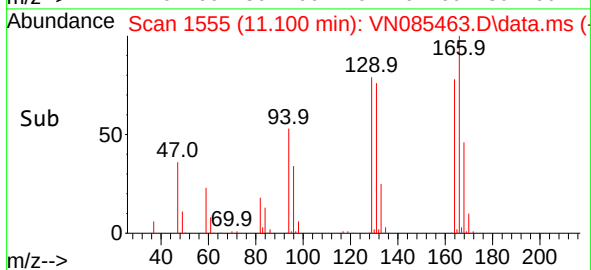
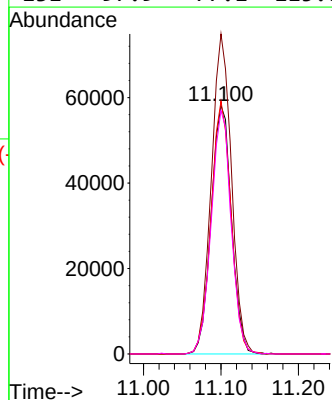
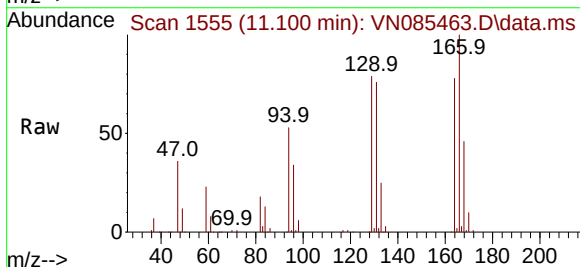
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

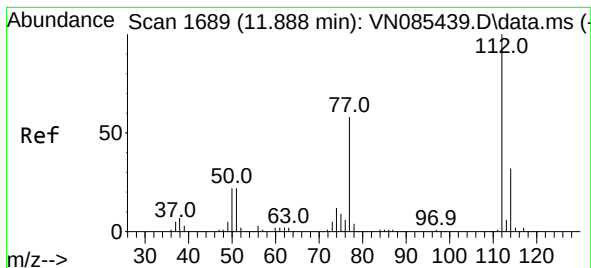
Tgt Ion:117 Resp: 330319
Ion Ratio Lower Upper
117 100
82 59.4 48.6 72.8
119 31.6 26.6 39.8



#64
Tetrachloroethene
Concen: 47.207 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:164 Resp: 106305
Ion Ratio Lower Upper
164 100
166 128.8 103.4 155.2
129 101.8 79.2 118.8
131 97.9 77.1 115.7

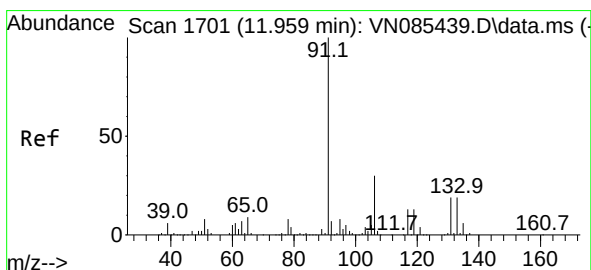
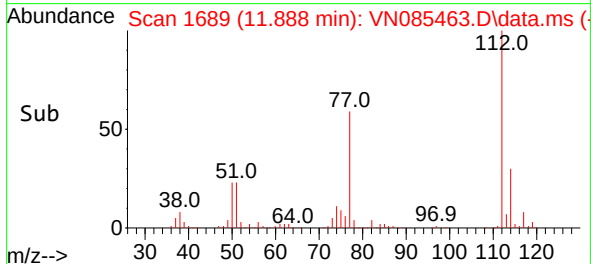
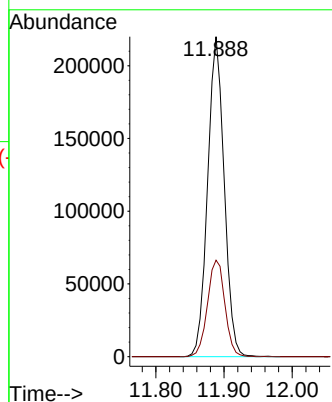
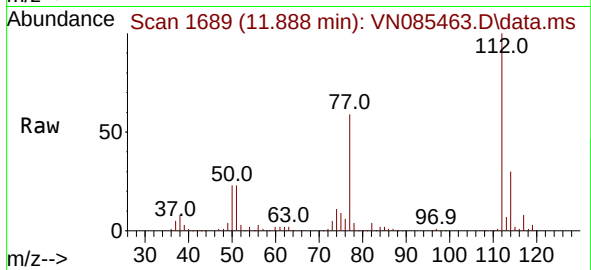




#65
Chlorobenzene
Concen: 51.313 ug/l
RT: 11.888 min Scan# 1112
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

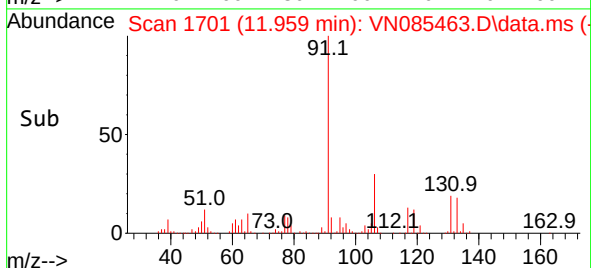
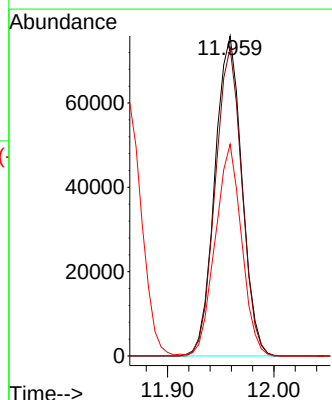
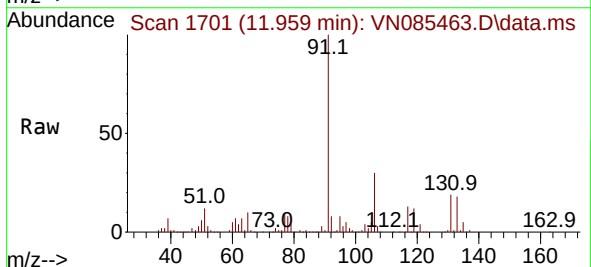
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

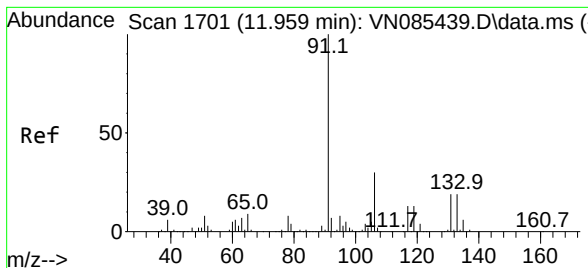
Tgt Ion:112 Resp: 371312
Ion Ratio Lower Upper
112 100
114 30.2 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 50.351 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:131 Resp: 133724
Ion Ratio Lower Upper
131 100
133 95.2 47.4 142.3
119 64.4 33.1 99.5

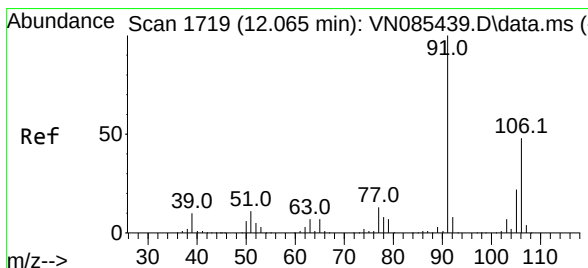
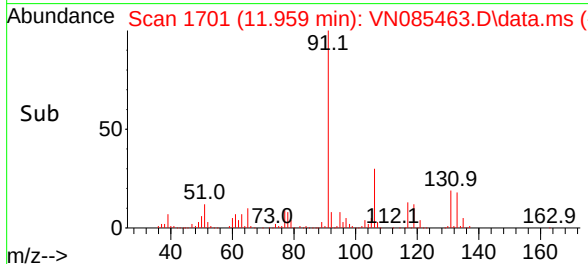
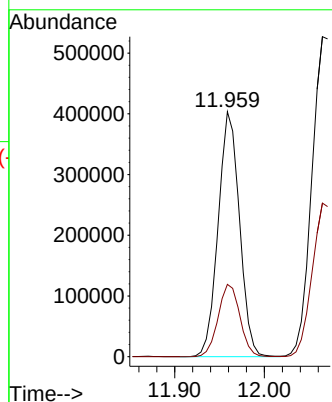
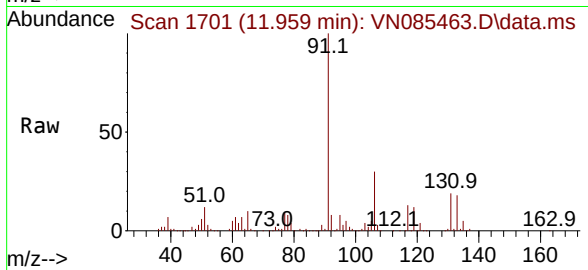




#67
Ethyl Benzene
Concen: 56.469 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

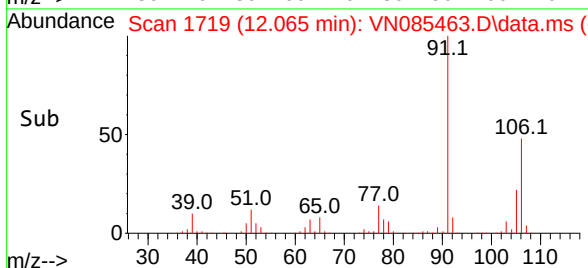
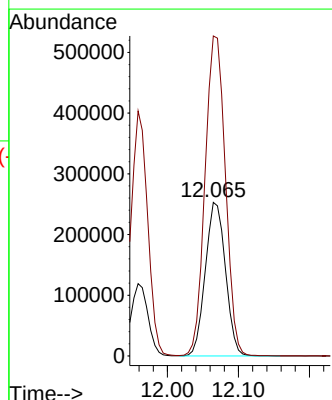
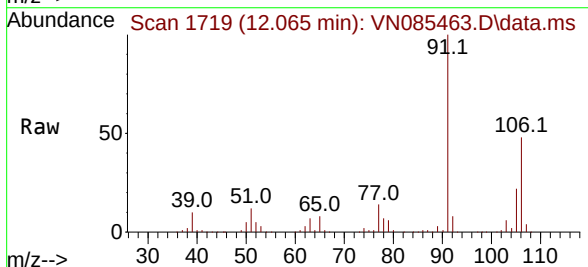
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

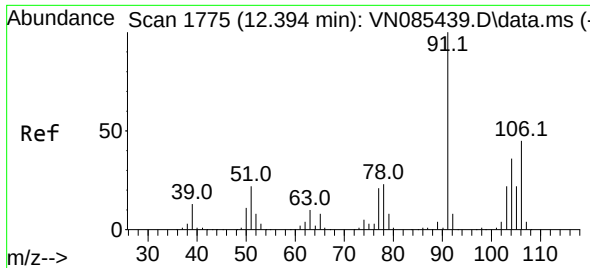
Tgt Ion: 91 Resp: 665536
Ion Ratio Lower Upper
91 100
106 29.5 23.8 35.8



#68
m/p-Xylenes
Concen: 114.541 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:106 Resp: 498925
Ion Ratio Lower Upper
106 100
91 210.4 167.7 251.5

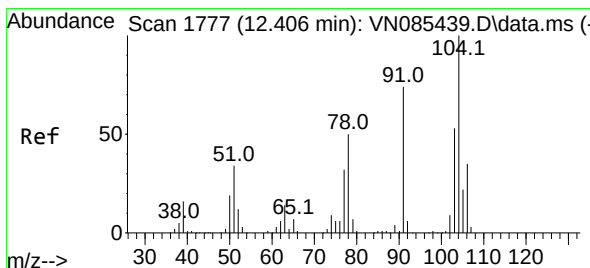
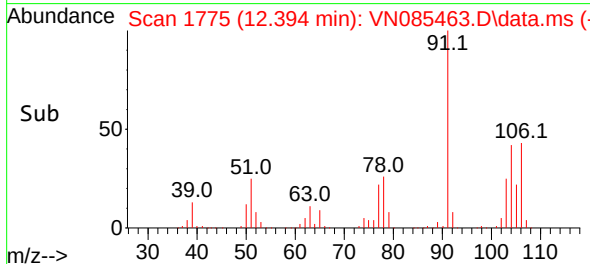
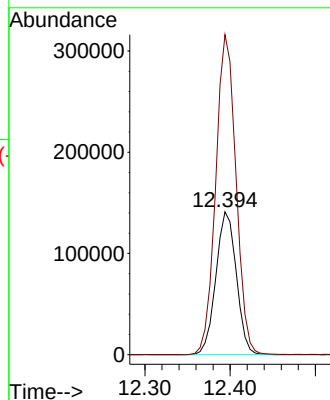
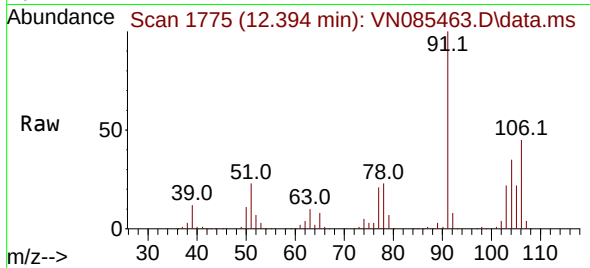




#69
o-Xylene
Concen: 56.724 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

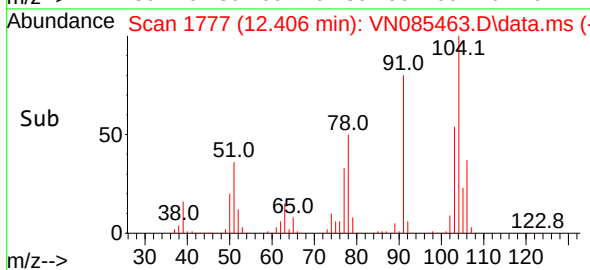
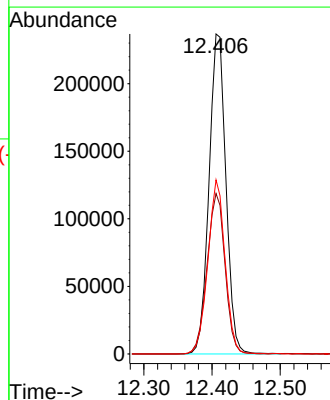
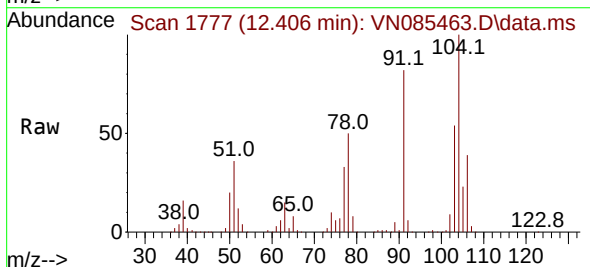
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

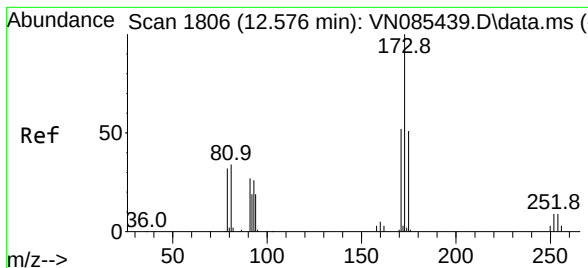
Tgt Ion:106 Resp: 236130
Ion Ratio Lower Upper
106 100
91 222.0 110.4 331.2



#70
Styrene
Concen: 59.312 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:104 Resp: 408614
Ion Ratio Lower Upper
104 100
78 53.4 42.5 63.7
103 55.4 43.8 65.8





#71

Bromoform

Concen: 55.344 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

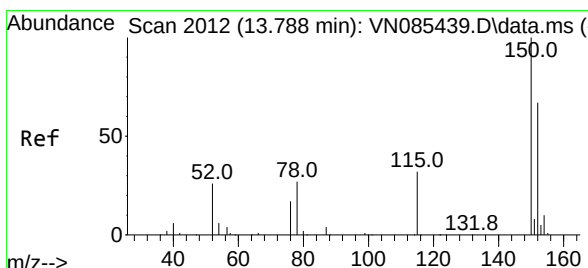
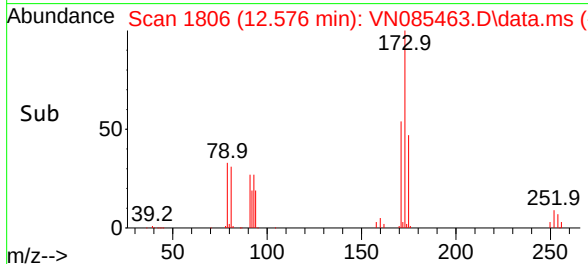
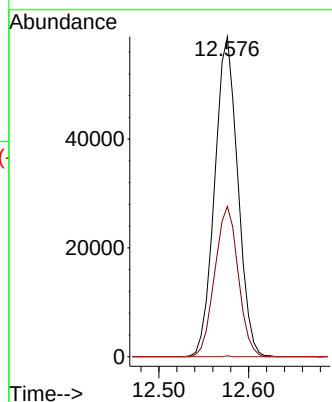
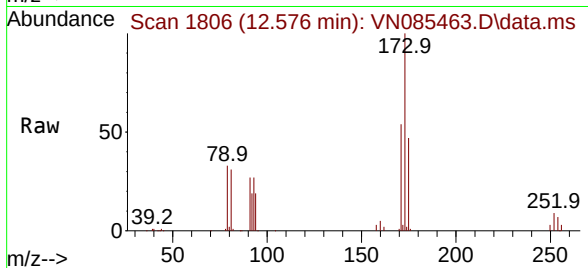
Tgt Ion:173 Resp: 105169

Ion Ratio Lower Upper

173 100

175 47.5 24.4 73.2

254 0.1 0.0 0.0#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

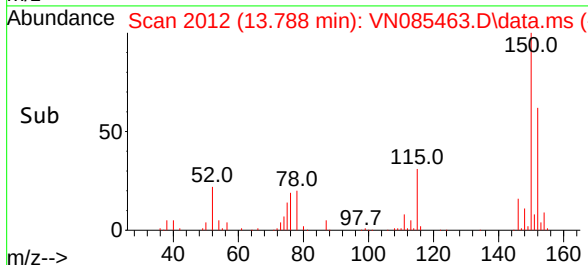
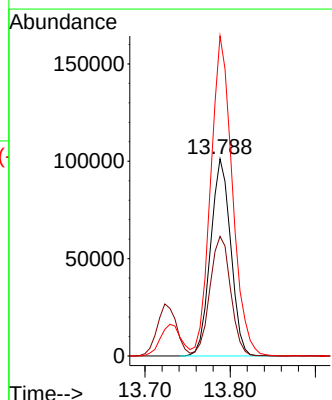
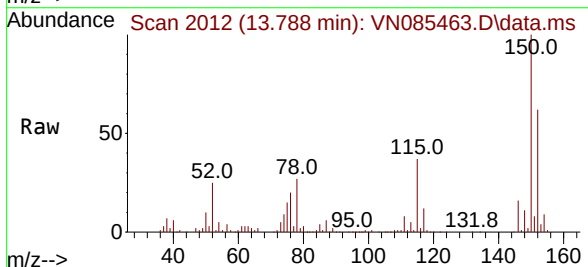
Tgt Ion:152 Resp: 166317

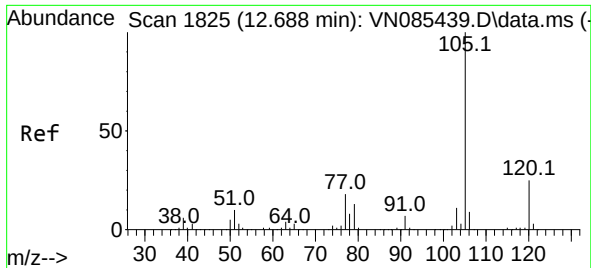
Ion Ratio Lower Upper

152 100

115 62.7 31.1 93.3

150 174.6 0.0 343.6

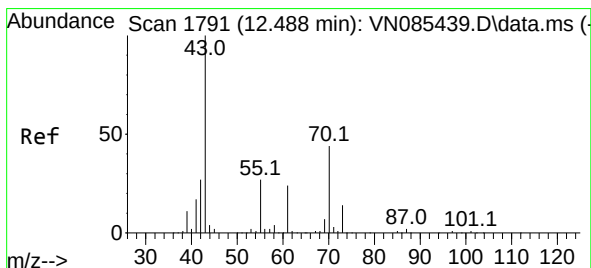
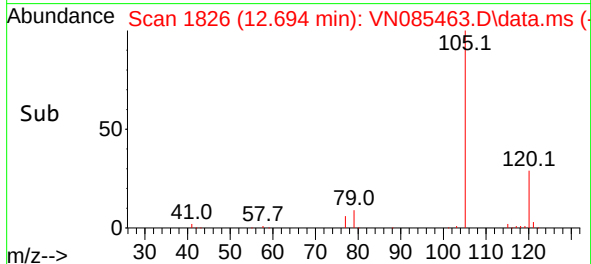
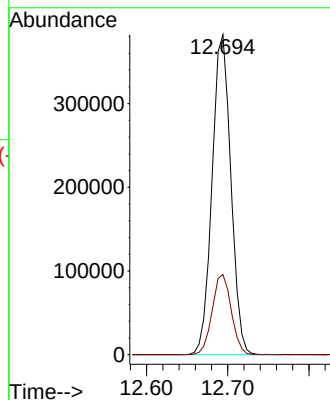
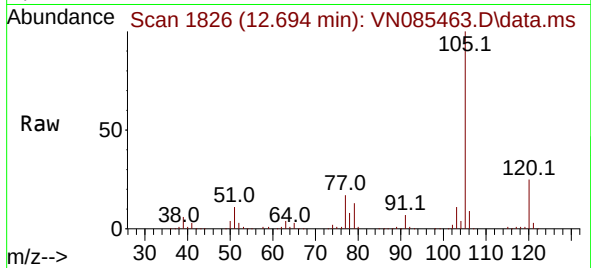




#73
Isopropylbenzene
Concen: 54.752 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

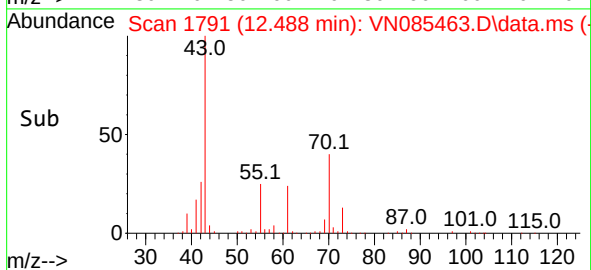
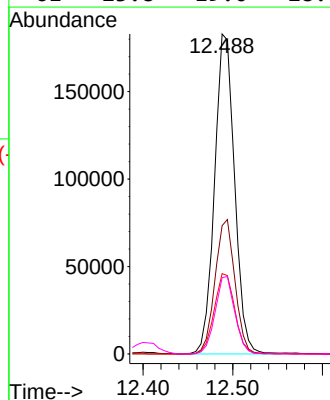
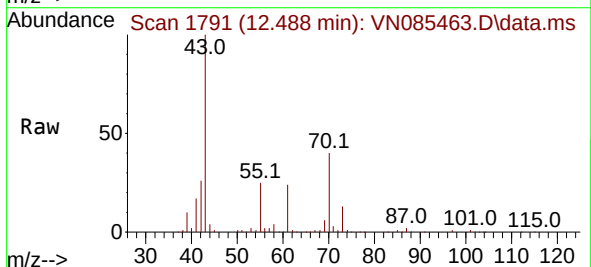
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

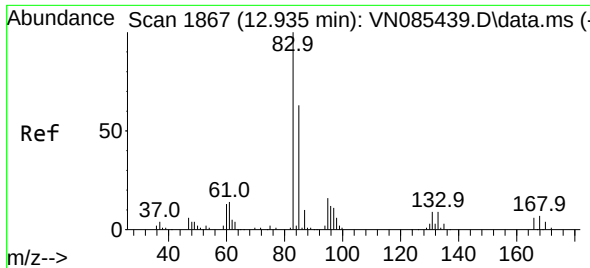
Tgt Ion:105 Resp: 614595
Ion Ratio Lower Upper
105 100
120 25.5 12.8 38.3



#74
N-ethyl acetate
Concen: 56.244 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 43 Resp: 283775
Ion Ratio Lower Upper
43 100
70 41.8 34.0 51.0
55 25.9 21.4 32.2
61 23.8 19.0 28.4

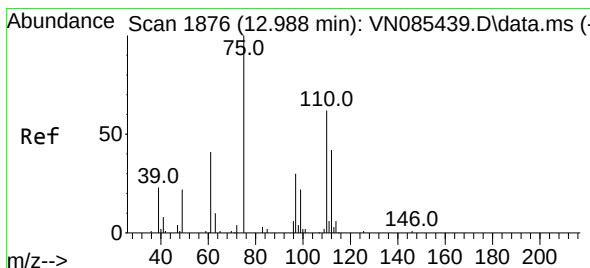
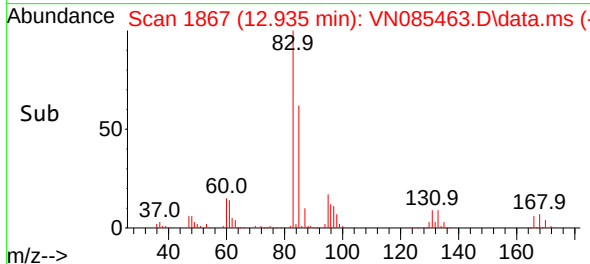
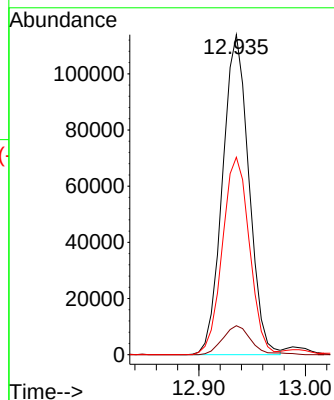
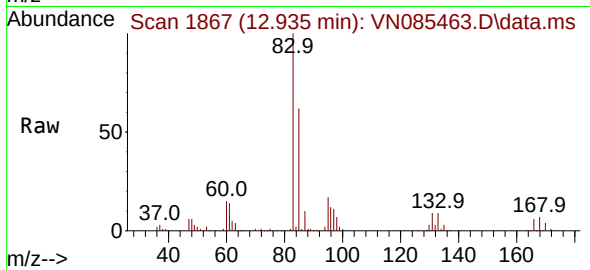




#75
1,1,2,2-Tetrachloroethane
Concen: 49.296 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

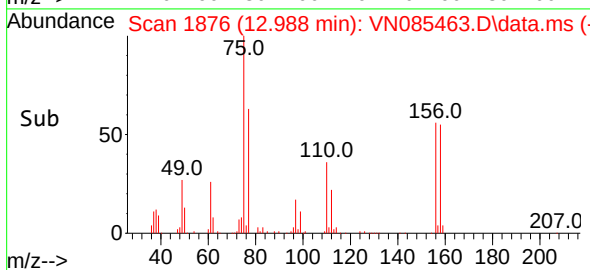
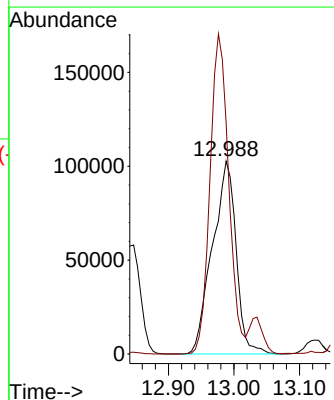
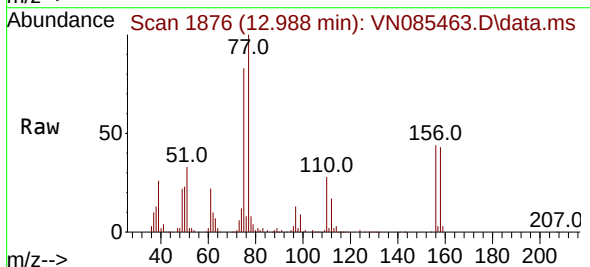
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

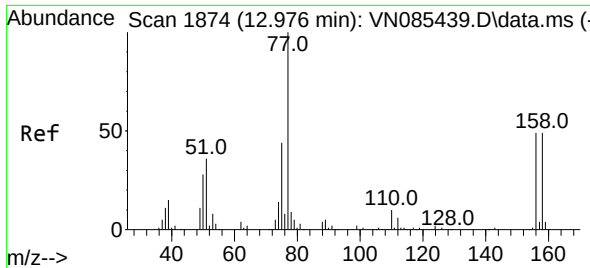
Tgt Ion: 83 Resp: 195465
Ion Ratio Lower Upper
83 100
131 9.7 4.8 14.4
85 63.5 32.2 96.6



#76
1,2,3-Trichloropropane
Concen: 76.171 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 75 Resp: 257490
Ion Ratio Lower Upper
75 100
77 131.3 109.7 329.2

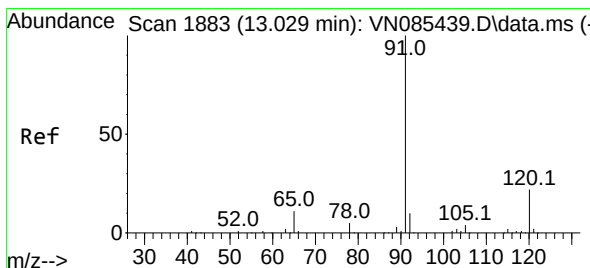
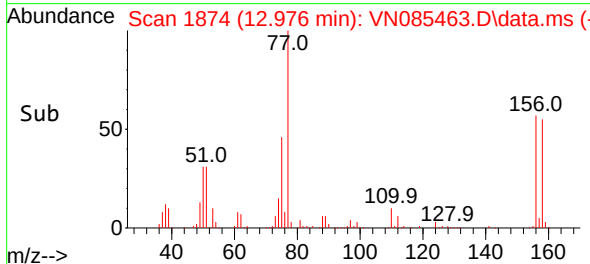
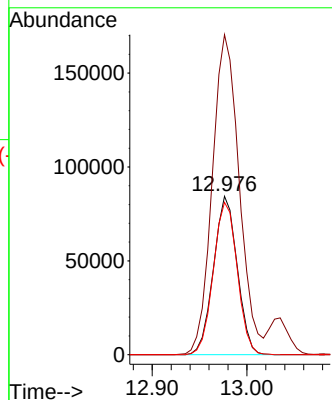
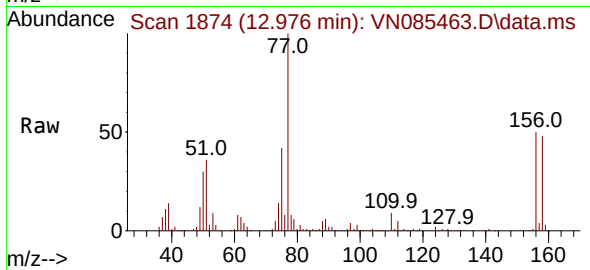




#77
Bromobenzene
Concen: 50.075 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

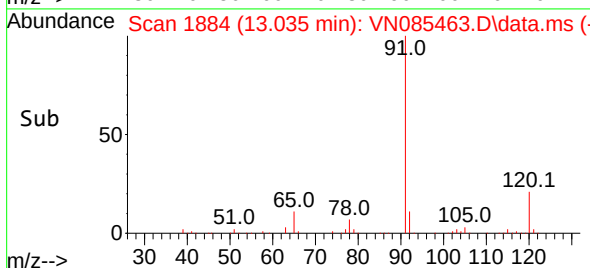
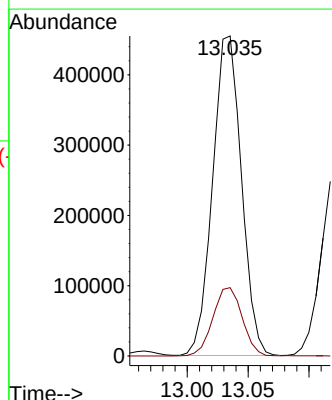
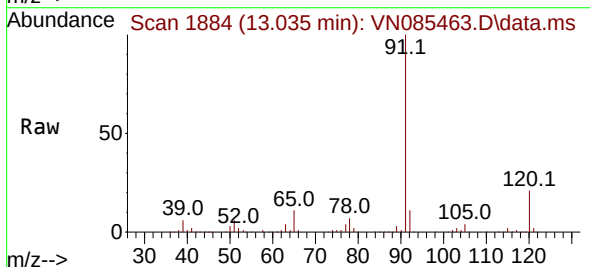
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

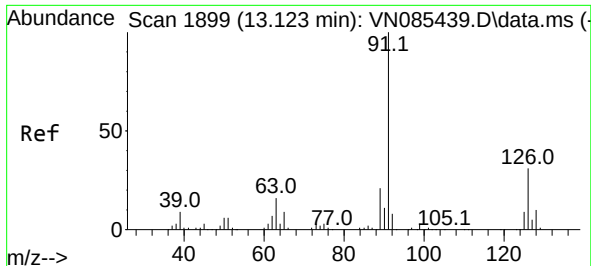
Tgt Ion:156 Resp: 146854
Ion Ratio Lower Upper
156 100
77 230.3 114.1 342.4
158 96.8 48.9 146.8



#78
n-propylbenzene
Concen: 56.324 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 91 Resp: 748465
Ion Ratio Lower Upper
91 100
120 21.8 10.9 32.6





#79

2-Chlorotoluene

Concen: 52.351 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

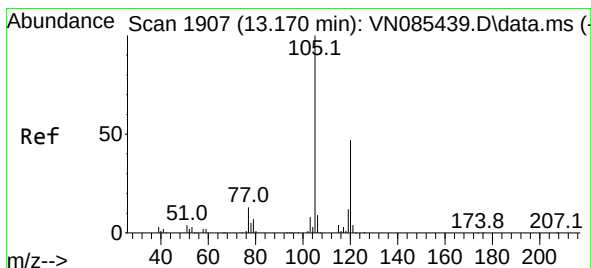
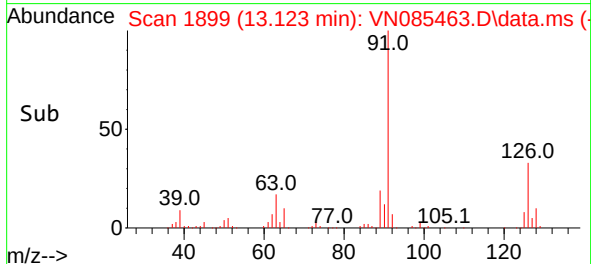
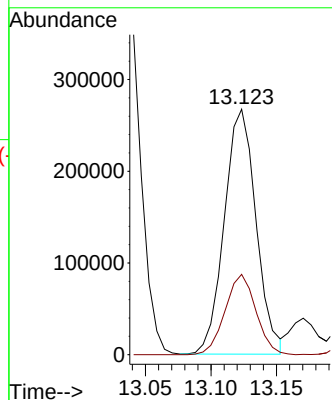
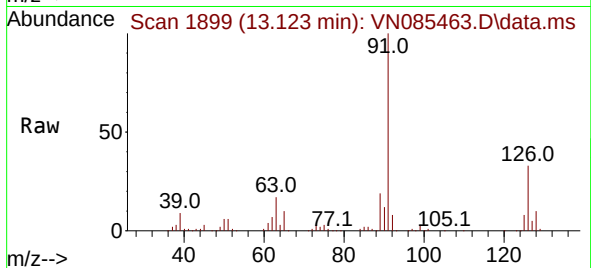
VSTDCCC050EC

Tgt Ion: 91 Resp: 450235

Ion Ratio Lower Upper

91 100

126 31.8 15.7 47.1



#80

1,3,5-Trimethylbenzene

Concen: 56.485 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085463.D

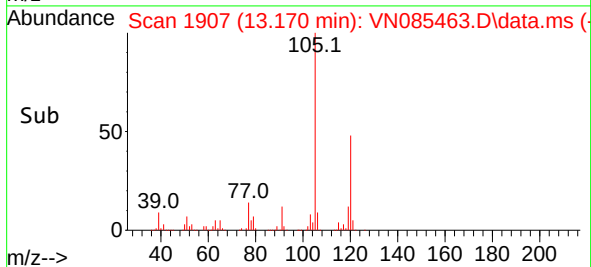
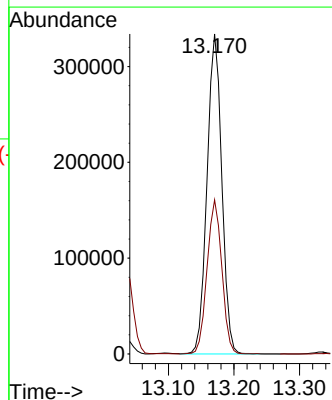
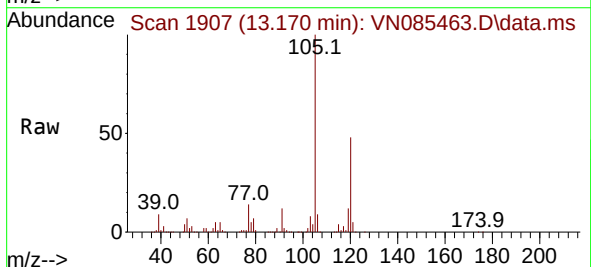
Acq: 15 Jan 2025 15:58

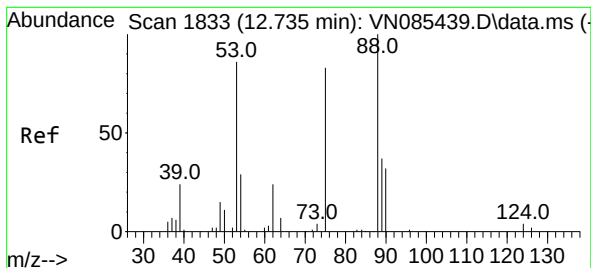
Tgt Ion:105 Resp: 523728

Ion Ratio Lower Upper

105 100

120 48.2 23.9 71.7

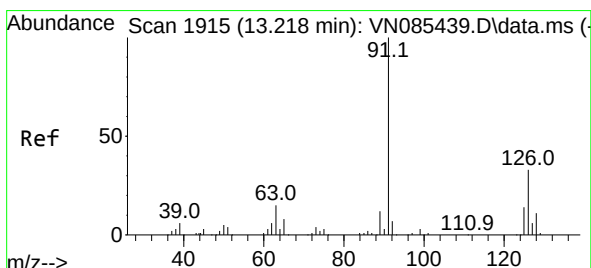
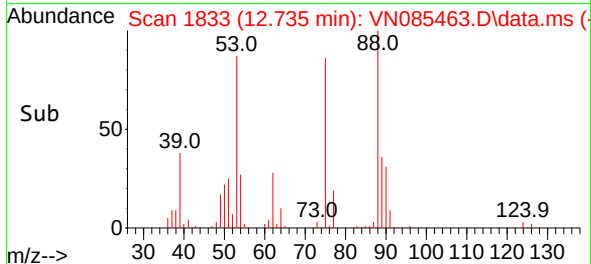
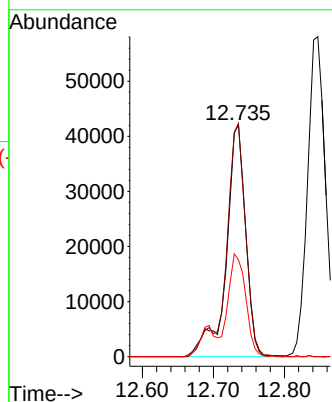
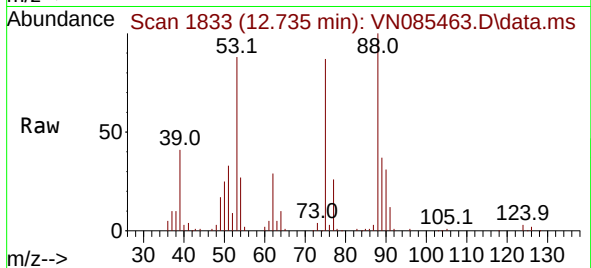




#81
trans-1,4-Dichloro-2-butene
Concen: 63.816 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

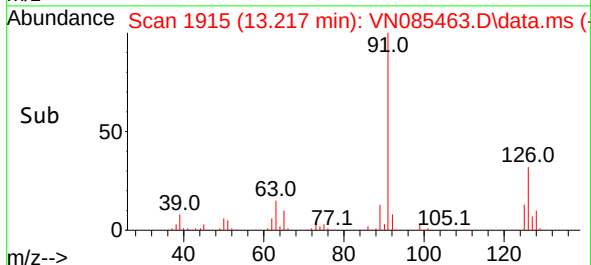
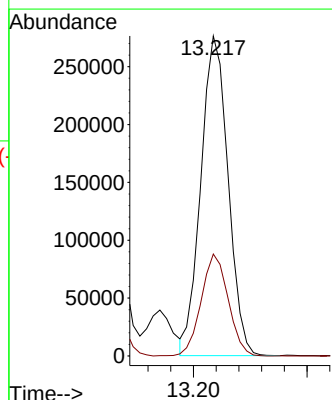
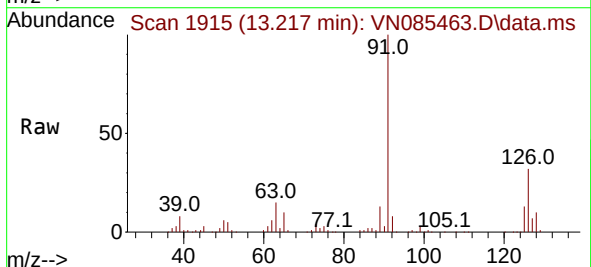
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

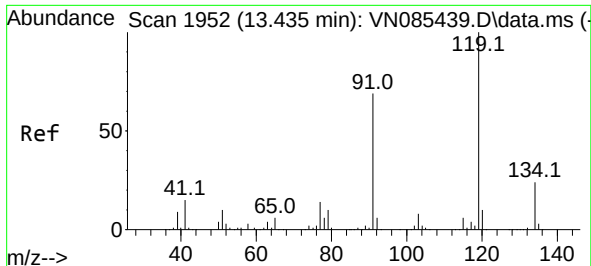
Tgt Ion: 75 Resp: 79734
Ion Ratio Lower Upper
75 100
53 101.6 95.6 143.4
89 40.6 37.0 55.6



#82
4-Chlorotoluene
Concen: 53.678 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 91 Resp: 459658
Ion Ratio Lower Upper
91 100
126 31.6 15.9 47.7

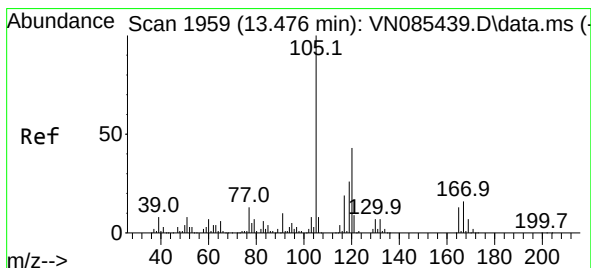
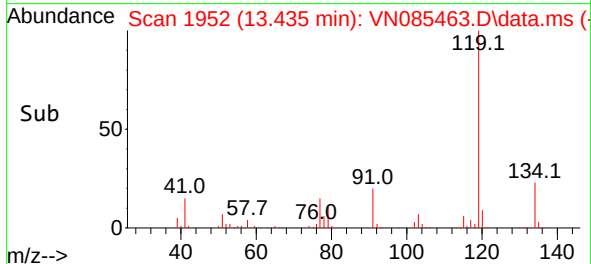
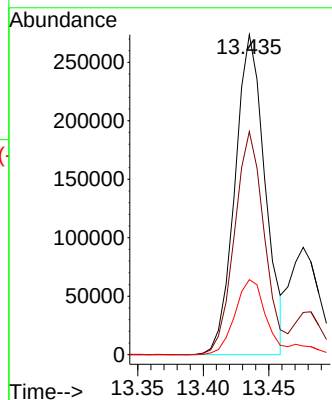
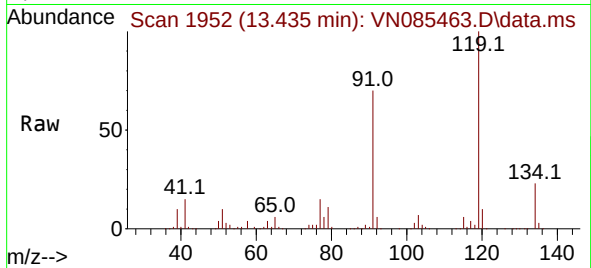




#83
tert-Butylbenzene
Concen: 56.211 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

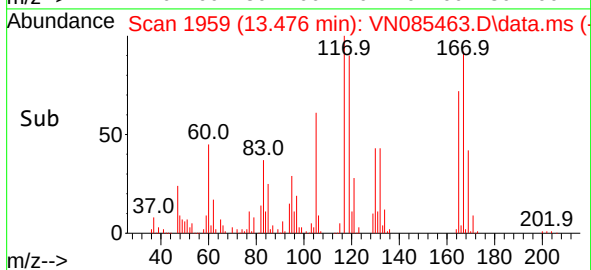
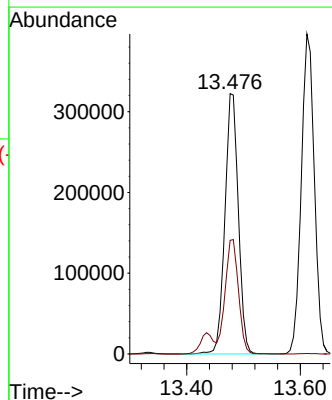
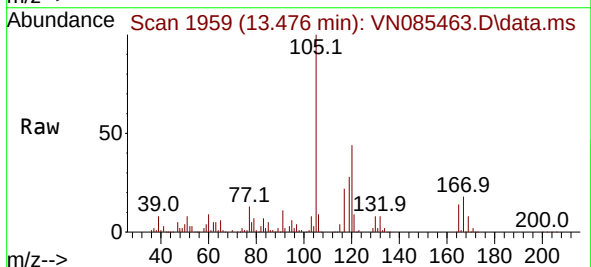
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

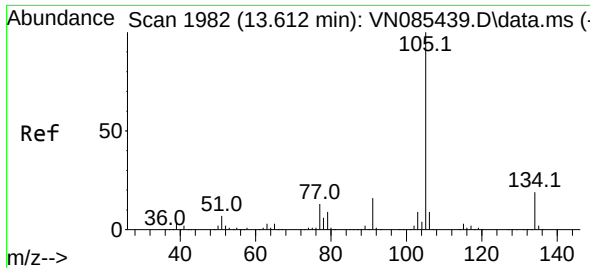
Tgt Ion:119 Resp: 437674
Ion Ratio Lower Upper
119 100
91 69.9 35.1 105.3
134 24.1 12.0 36.1



#84
1,2,4-Trimethylbenzene
Concen: 57.491 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:105 Resp: 531276
Ion Ratio Lower Upper
105 100
120 43.5 21.6 65.0

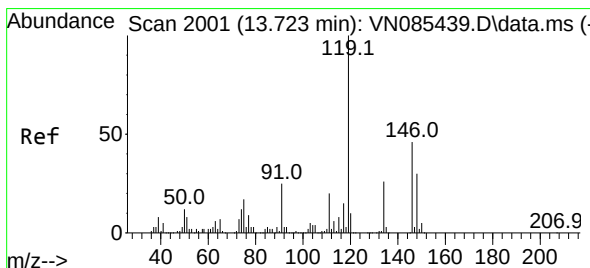
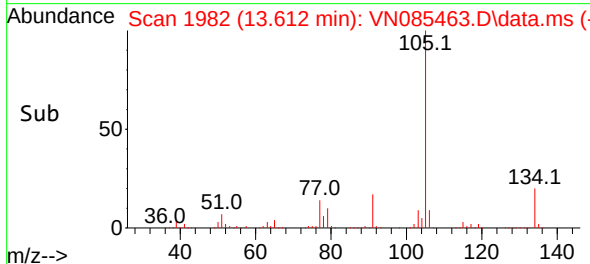
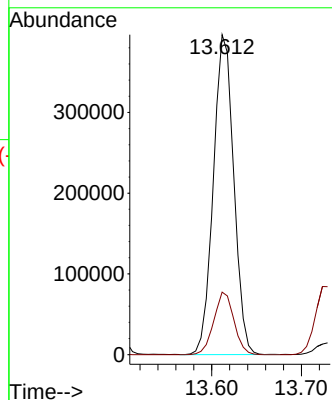
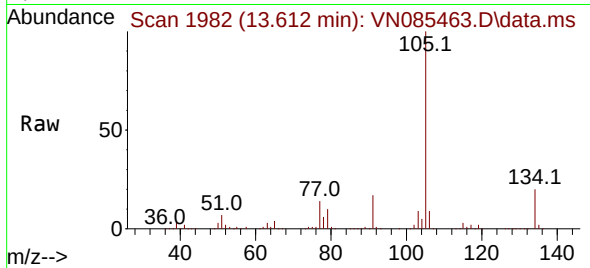




#85
 sec-Butylbenzene
 Concen: 58.063 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. -0.000 min
 Lab File: VN085463.D
 Acq: 15 Jan 2025 15:58

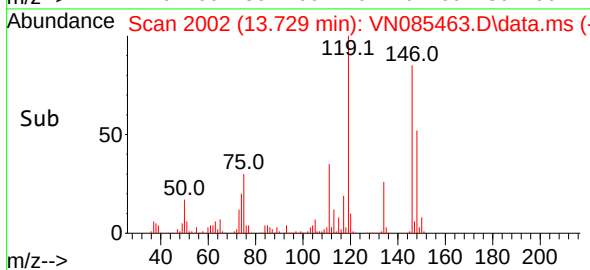
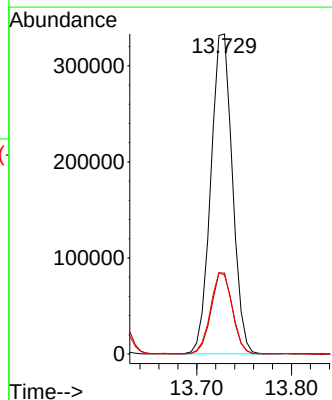
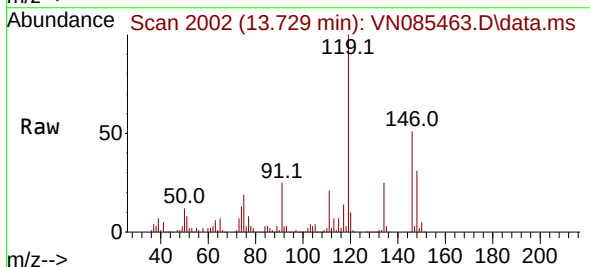
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

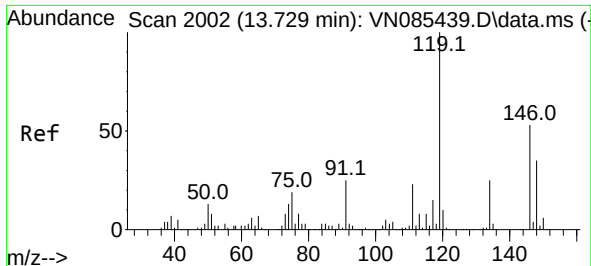
Tgt Ion:105 Resp: 626587
 Ion Ratio Lower Upper
 105 100
 134 19.2 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 53.560 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.006 min
 Lab File: VN085463.D
 Acq: 15 Jan 2025 15:58

Tgt Ion:119 Resp: 525049
 Ion Ratio Lower Upper
 119 100
 134 25.2 12.7 38.0
 91 25.6 12.7 38.1

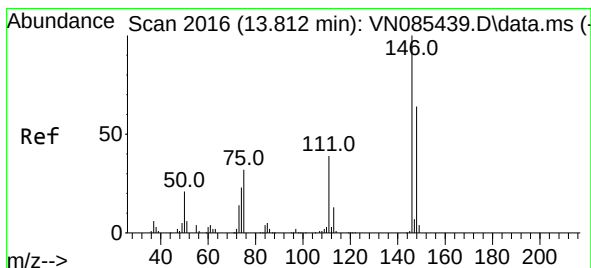
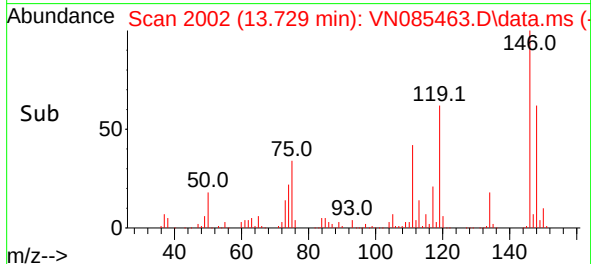
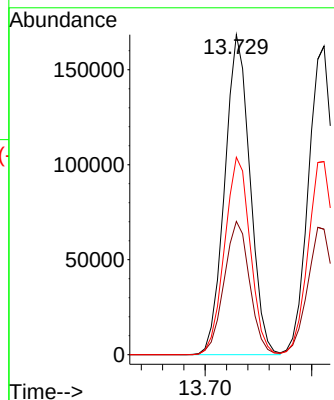
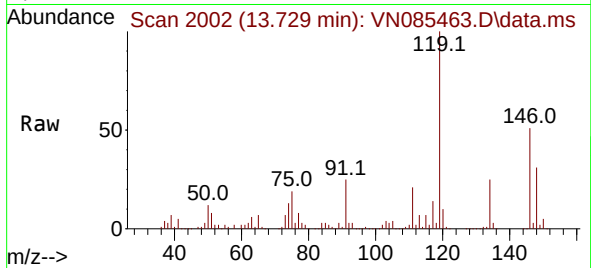




#87
 1,3-Dichlorobenzene
 Concen: 51.364 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.000 min
 Lab File: VN085463.D
 Acq: 15 Jan 2025 15:58

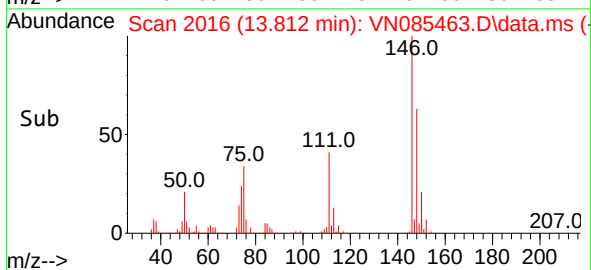
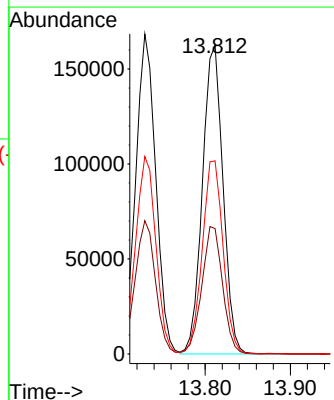
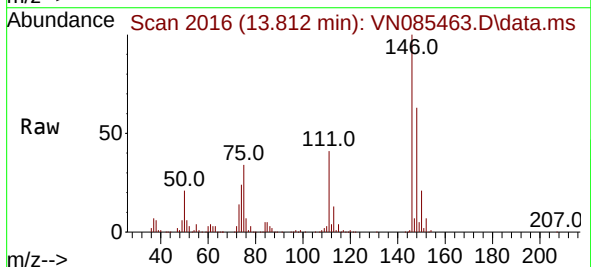
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

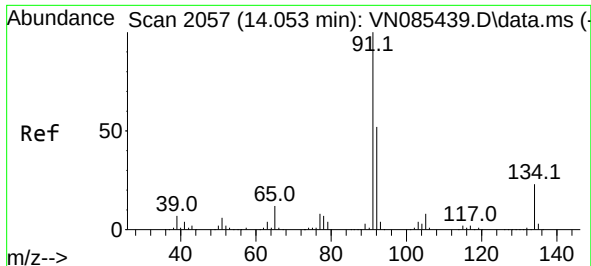
Tgt Ion:146 Resp: 277409
 Ion Ratio Lower Upper
 146 100
 111 42.2 21.4 64.3
 148 62.6 32.3 96.9



#88
 1,4-Dichlorobenzene
 Concen: 48.694 ug/l
 RT: 13.812 min Scan# 2016
 Delta R.T. -0.000 min
 Lab File: VN085463.D
 Acq: 15 Jan 2025 15:58

Tgt Ion:146 Resp: 272594
 Ion Ratio Lower Upper
 146 100
 111 41.7 21.3 63.7
 148 63.5 32.4 97.0

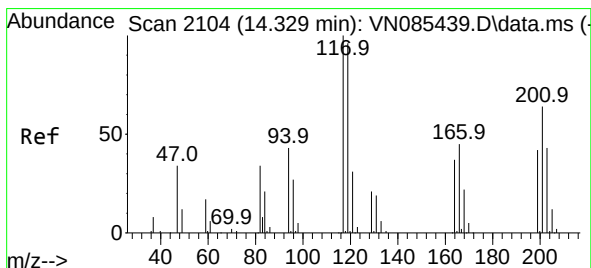
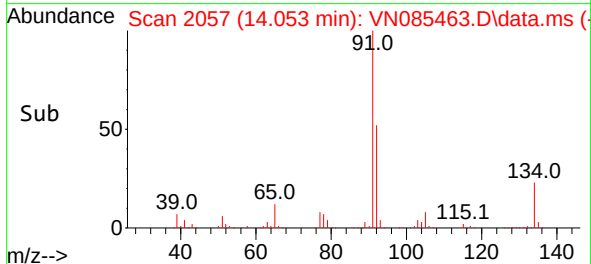
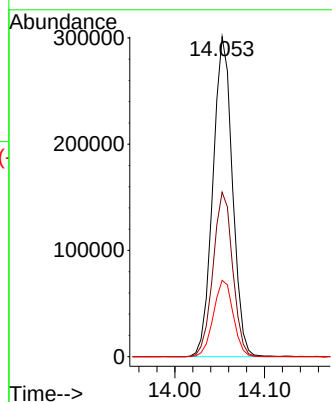
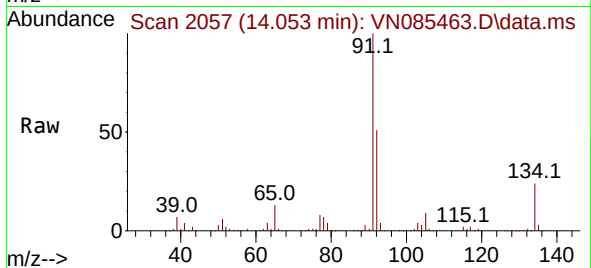




#89
n-Butylbenzene
Concen: 58.802 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

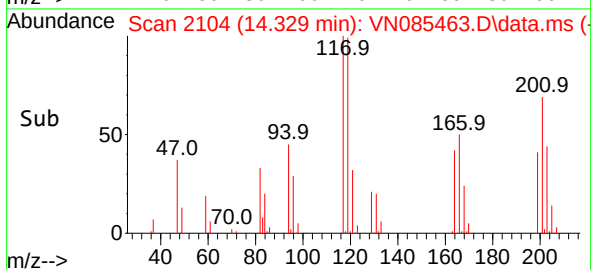
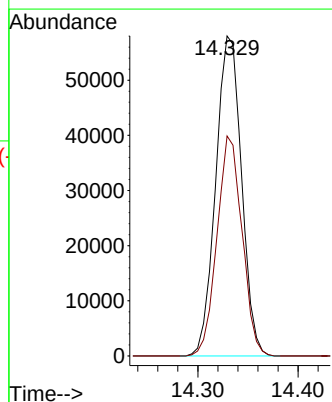
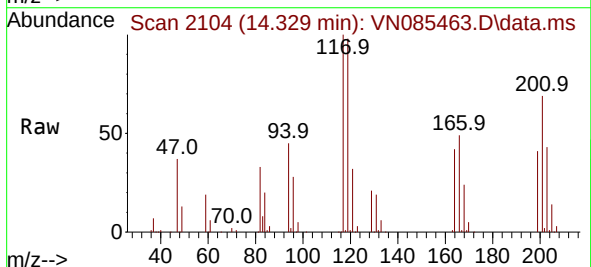
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

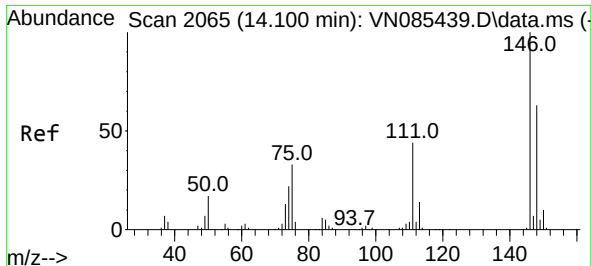
Tgt Ion: 91 Resp: 455243
Ion Ratio Lower Upper
91 100
92 51.7 25.8 77.3
134 24.2 11.7 35.1



#90
Hexachloroethane
Concen: 50.491 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

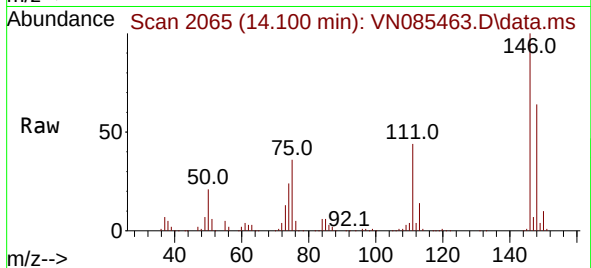
Tgt Ion: 117 Resp: 103728
Ion Ratio Lower Upper
117 100
201 66.7 33.7 101.0



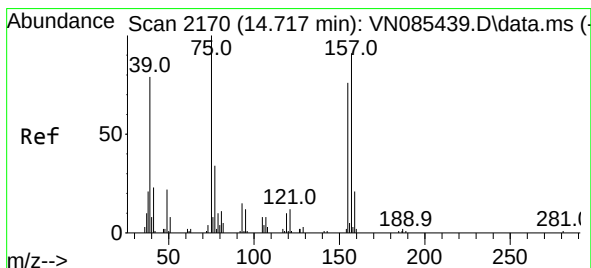
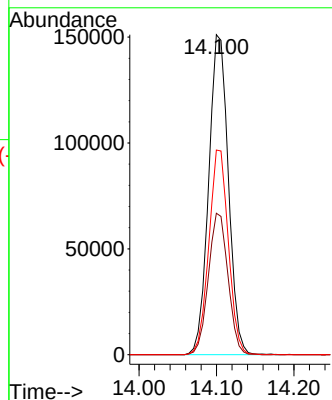
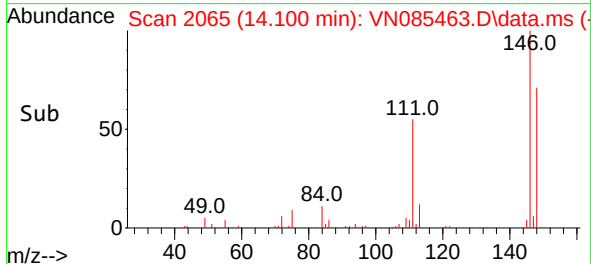


#91
1,2-Dichlorobenzene
Concen: 49.494 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

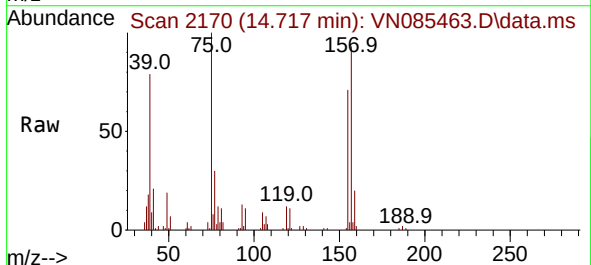
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



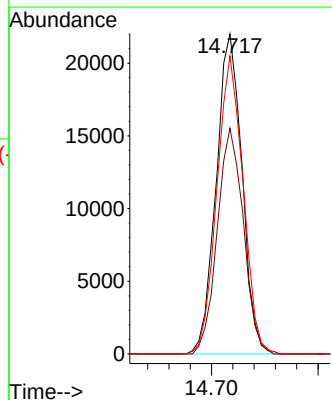
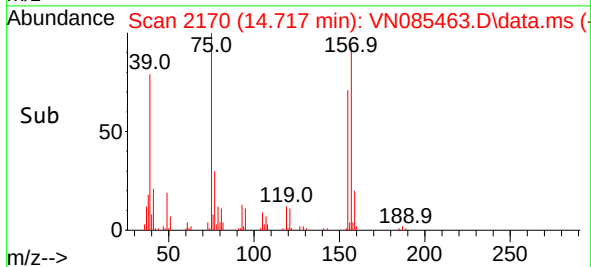
Tgt Ion:146 Resp: 266635
Ion Ratio Lower Upper
146 100
111 44.1 21.7 65.1
148 63.3 31.4 94.2

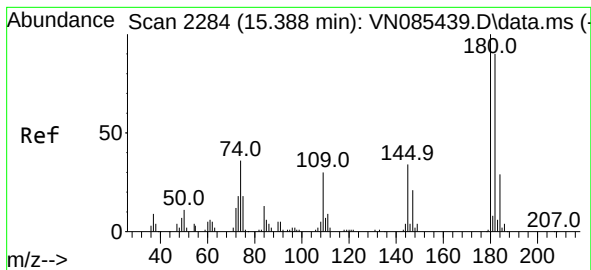


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.081 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58



Tgt Ion: 75 Resp: 36986
Ion Ratio Lower Upper
75 100
155 71.4 36.4 109.2
157 94.1 45.4 136.1





#93

1,2,4-Trichlorobenzene

Concen: 53.324 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

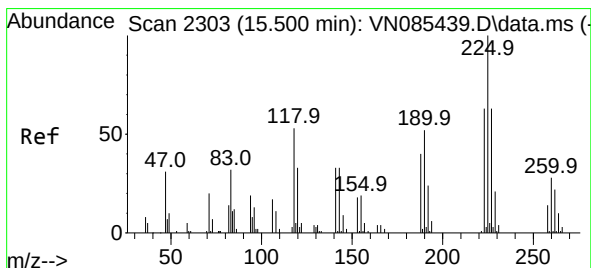
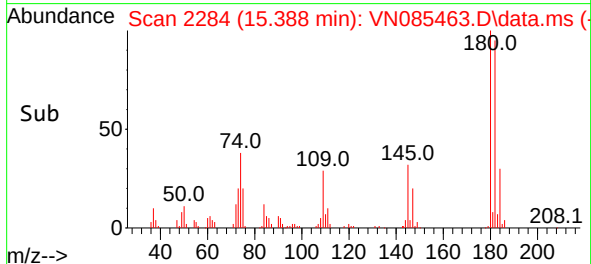
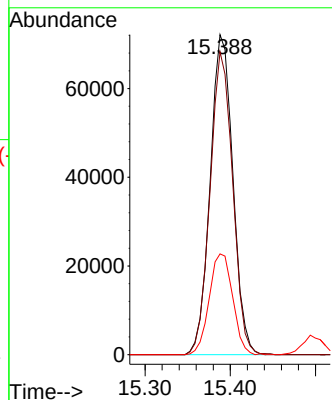
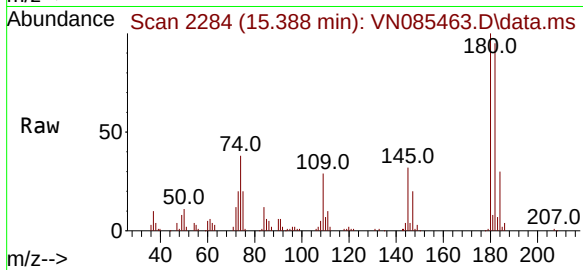
Tgt Ion:180 Resp: 133515

Ion Ratio Lower Upper

180 100

182 94.2 46.8 140.3

145 32.5 16.0 48.0



#94

Hexachlorobutadiene

Concen: 48.771 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

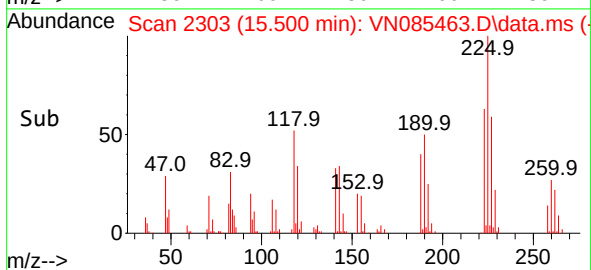
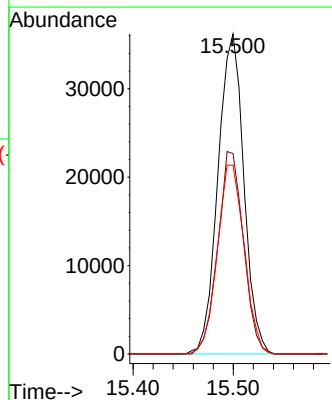
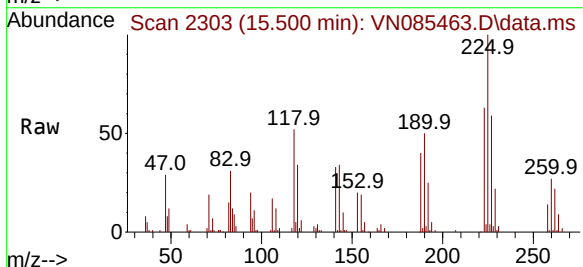
Tgt Ion:225 Resp: 64832

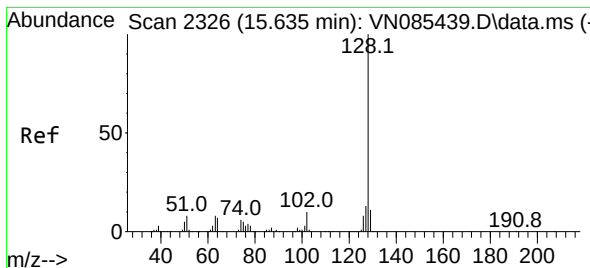
Ion Ratio Lower Upper

225 100

223 62.7 30.7 92.1

227 61.7 30.9 92.5





#95

Naphthalene

Concen: 53.462 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

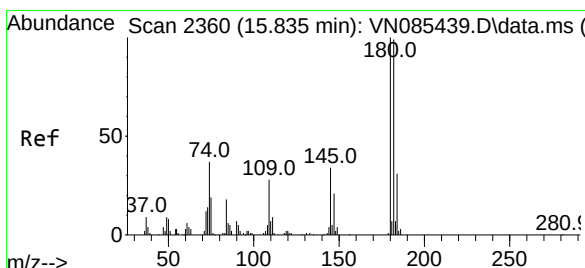
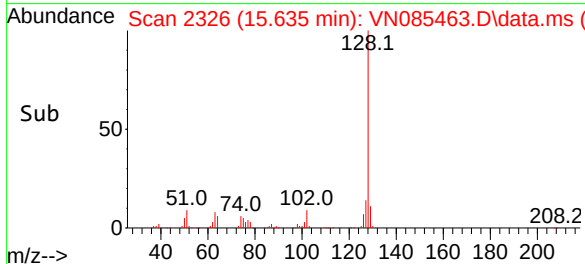
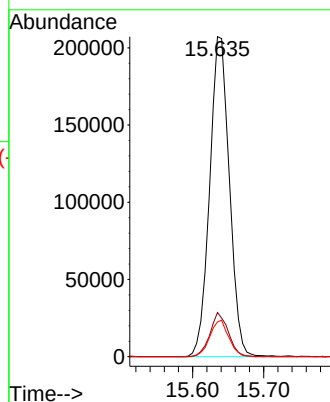
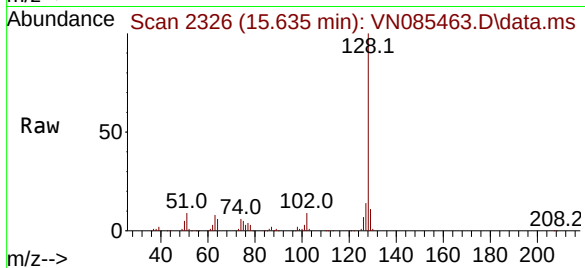
Tgt Ion:128 Resp: 399446

Ion Ratio Lower Upper

128 100

127 12.9 10.6 16.0

129 11.0 8.8 13.2



#96

1,2,3-Trichlorobenzene

Concen: 50.856 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN085463.D

Acq: 15 Jan 2025 15:58

Tgt Ion:180 Resp: 128843

Ion Ratio Lower Upper

180 100

182 93.6 47.4 142.2

145 34.0 16.9 50.7

