

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

LAB CHRONICLE

OrderID:	P4665	OrderDate:	10/31/2024 3:52:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	K51,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4665-01	BP-VPB-190-TB-2024 1029	Water			10/29/24			10/31/24
			VOCMS Group1	8260-Low			11/01/24	
P4665-02	VPB190-HYD-202410 30	Water			10/30/24			10/31/24
			VOCMS Group1	8260-Low			11/01/24	
P4665-03	BP-VPB-190-EB-2024 1030	Water			10/30/24			10/31/24
			VOCMS Group1	8260-Low			11/01/24	
P4665-04	BP-VPB-190-GW-538- 540	Water			10/29/24			10/31/24
			VOCMS Group1	8260-Low			11/01/24	
P4665-05	BP-VPB-190-GW-558- 560	Water			10/29/24			10/31/24
			VOCMS Group1	8260-Low			11/01/24	
P4665-06	BP-VPB-190-GW-583- 585	Water			10/30/24			10/31/24
			VOCMS Group1	8260-Low			11/01/24	
P4665-07	BP-VPB-190-GW-598- 600	Water			10/30/24			10/31/24
			VOCMS Group1	8260-Low			11/01/24	

Hit Summary Sheet
SW-846

SDG No.: P4665

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	BP-VPB-190-GW-558-560								
P4665-05	BP-VPB-190-GW-5 Water	Acetone		6.80		1.40	3.80	5.00	ug/L
P4665-05	BP-VPB-190-GW-5 Water	2-Butanone		2.60	J	1.30	2.50	5.00	ug/L
		Total Voc :		9.40					
		Total Concentration:		9.40					
Client ID:	BP-VPB-190-GW-583-585								
P4665-06	BP-VPB-190-GW-5 Water	Acetone		7.70		1.40	3.80	5.00	ug/L
P4665-06	BP-VPB-190-GW-5 Water	2-Butanone		2.30	J	1.30	2.50	5.00	ug/L
		Total Voc :		10.0					
		Total Concentration:		10.0					
Client ID:	BP-VPB-190-GW-598-600								
P4665-07	BP-VPB-190-GW-5 Water	1,1,2-Trichlorotrifluoroethane		0.98	J	0.25	0.50	1.00	ug/L
		Total Voc :		0.98					
		Total Concentration:		0.98					



QC SUMMARY

Surrogate Summary

SDG No.: **P4665**

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

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P4665-01	BP-VPB-190-TB-20241029	1,2-Dichloroethane-d4	50	50.8	102	81	118
		Dibromofluoromethane	50	49.2	98	80	119
		Toluene-d8	50	47.0	94	89	112
		4-Bromofluorobenzene	50	47.6	95	85	114
P4665-02	VPB190-HYD-20241030	1,2-Dichloroethane-d4	50	49.6	99	81	118
		Dibromofluoromethane	50	50.8	102	80	119
		Toluene-d8	50	46.2	92	89	112
		4-Bromofluorobenzene	50	46.9	94	85	114
P4665-03	BP-VPB-190-EB-20241030	1,2-Dichloroethane-d4	50	49.9	100	81	118
		Dibromofluoromethane	50	49.5	99	80	119
		Toluene-d8	50	47.9	96	89	112
		4-Bromofluorobenzene	50	45.7	91	85	114
P4665-04	BP-VPB-190-GW-538-540	1,2-Dichloroethane-d4	50	51.4	103	81	118
		Dibromofluoromethane	50	50.8	102	80	119
		Toluene-d8	50	48.5	97	89	112
		4-Bromofluorobenzene	50	47.7	95	85	114
P4665-05	BP-VPB-190-GW-558-560	1,2-Dichloroethane-d4	50	49.9	100	81	118
		Dibromofluoromethane	50	49.8	100	80	119
		Toluene-d8	50	46.8	94	89	112
		4-Bromofluorobenzene	50	46.2	92	85	114
P4665-06	BP-VPB-190-GW-583-585	1,2-Dichloroethane-d4	50	49.6	99	81	118
		Dibromofluoromethane	50	48.9	98	80	119
		Toluene-d8	50	47.3	94	89	112
		4-Bromofluorobenzene	50	46.1	92	85	114
P4665-07	BP-VPB-190-GW-598-600	1,2-Dichloroethane-d4	50	50.0	100	81	118
		Dibromofluoromethane	50	49.5	99	80	119
		Toluene-d8	50	47.2	94	89	112
		4-Bromofluorobenzene	50	47.2	94	85	114
VN1101WBL01	VN1101WBL01	1,2-Dichloroethane-d4	50	51.6	103	81	118
		Dibromofluoromethane	50	49.8	100	80	119
		Toluene-d8	50	47.4	95	89	112
		4-Bromofluorobenzene	50	46.8	94	85	114
VN1101WBS01	VN1101WBS01	1,2-Dichloroethane-d4	50	44.3	89	81	118
		Dibromofluoromethane	50	45.1	90	80	119
		Toluene-d8	50	46.1	92	89	112
		4-Bromofluorobenzene	50	47.0	94	85	114
VN1101WBSD0	VN1101WBSD01	1,2-Dichloroethane-d4	50	45.0	90	81	118
		Dibromofluoromethane	50	46.5	93	80	119
		Toluene-d8	50	46.3	93	89	112
		4-Bromofluorobenzene	50	46.5	93	85	114

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4665

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VN084631.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1101WBS01	Chloromethane	20	16.4	ug/L	82			50	139	
	Vinyl chloride	20	18.9	ug/L	95			58	137	
	Bromomethane	20	18.0	ug/L	90			53	141	
	Chloroethane	20	18.2	ug/L	91			60	138	
	Trichlorofluoromethane	20	18.8	ug/L	94			65	141	
	1,1,2-Trichlorotrifluoroethane	20	19.3	ug/L	97			70	136	
	1,1-Dichloroethene	20	17.7	ug/L	89			71	131	
	Acetone	100	96.0	ug/L	96			39	160	
	Carbon disulfide	20	16.7	ug/L	84			64	133	
	Methyl tert-butyl Ether	20	19.1	ug/L	96			71	124	
	Methylene Chloride	20	19.0	ug/L	95			74	124	
	trans-1,2-Dichloroethene	20	18.5	ug/L	93			75	124	
	1,1-Dichloroethane	20	19.1	ug/L	96			77	125	
	2-Butanone	100	96.7	ug/L	97			56	143	
	Carbon Tetrachloride	20	19.7	ug/L	99			72	136	
	cis-1,2-Dichloroethene	20	18.4	ug/L	92			78	123	
	Chloroform	20	19.6	ug/L	98			79	124	
	1,1,1-Trichloroethane	20	19.4	ug/L	97			74	131	
	Methylcyclohexane	20	18.4	ug/L	92			72	132	
	Benzene	20	18.8	ug/L	94			79	120	
	1,2-Dichloroethane	20	19.5	ug/L	98			73	128	
	Trichloroethene	20	18.4	ug/L	92			79	123	
	1,2-Dichloropropane	20	19.1	ug/L	96			78	122	
	Bromodichloromethane	20	19.2	ug/L	96			79	125	
	4-Methyl-2-Pentanone	100	100	ug/L	100			67	130	
	Toluene	20	20.1	ug/L	101			80	121	
	t-1,3-Dichloropropene	20	17.7	ug/L	89			73	127	
	cis-1,3-Dichloropropene	20	18.7	ug/L	94			75	124	
	1,1,2-Trichloroethane	20	20.0	ug/L	100			80	119	
	2-Hexanone	100	110	ug/L	110			57	139	
	Dibromochloromethane	20	20.3	ug/L	102			74	126	
	Tetrachloroethene	20	18.6	ug/L	93			74	129	
	Chlorobenzene	20	18.3	ug/L	92			82	118	
	Ethyl Benzene	20	18.8	ug/L	94			79	121	
	m/p-Xylenes	40	38.9	ug/L	97			80	121	
	o-Xylene	20	20.0	ug/L	100			78	122	
	Styrene	20	19.4	ug/L	97			78	123	
	Bromoform	20	19.0	ug/L	95			66	130	
	Isopropylbenzene	20	18.5	ug/L	93			72	131	
	1,1,2,2-Tetrachloroethane	20	18.1	ug/L	91			71	121	
	1,3-Dichlorobenzene	20	16.8	ug/L	84			80	119	
	1,4-Dichlorobenzene	20	17.3	ug/L	86			79	118	
	1,2-Dichlorobenzene	20	17.0	ug/L	85			80	119	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4665

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VN084632.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1101WBSD01	Chloromethane	20	16.8	ug/L	84	2		50	139	20
	Vinyl chloride	20	18.9	ug/L	95	0		58	137	20
	Bromomethane	20	18.4	ug/L	92	2		53	141	20
	Chloroethane	20	19.0	ug/L	95	4		60	138	20
	Trichlorofluoromethane	20	20.1	ug/L	101	7		65	141	20
	1,1,2-Trichlorotrifluoroethane	20	19.7	ug/L	99	2		70	136	20
	1,1-Dichloroethene	20	18.5	ug/L	93	4		71	131	20
	Acetone	100	110	ug/L	110	14		39	160	20
	Carbon disulfide	20	17.5	ug/L	88	5		64	133	20
	Methyl tert-butyl Ether	20	20.4	ug/L	102	6		71	124	20
	Methylene Chloride	20	19.4	ug/L	97	2		74	124	20
	trans-1,2-Dichloroethene	20	19.0	ug/L	95	2		75	124	20
	1,1-Dichloroethane	20	19.9	ug/L	100	4		77	125	20
	2-Butanone	100	100	ug/L	100	3		56	143	20
	Carbon Tetrachloride	20	20.1	ug/L	101	2		72	136	20
	cis-1,2-Dichloroethene	20	19.6	ug/L	98	6		78	123	20
	Chloroform	20	20.1	ug/L	101	3		79	124	20
	1,1,1-Trichloroethane	20	20.1	ug/L	101	4		74	131	20
	Methylcyclohexane	20	19.6	ug/L	98	6		72	132	20
	Benzene	20	19.4	ug/L	97	3		79	120	20
	1,2-Dichloroethane	20	20.4	ug/L	102	4		73	128	20
	Trichloroethene	20	19.2	ug/L	96	4		79	123	20
	1,2-Dichloropropane	20	20.1	ug/L	101	5		78	122	20
	Bromodichloromethane	20	20.1	ug/L	101	5		79	125	20
	4-Methyl-2-Pentanone	100	110	ug/L	110	10		67	130	20
	Toluene	20	20.8	ug/L	104	3		80	121	20
	t-1,3-Dichloropropene	20	19.3	ug/L	97	9		73	127	20
	cis-1,3-Dichloropropene	20	19.6	ug/L	98	4		75	124	20
	1,1,2-Trichloroethane	20	21.1	ug/L	106	6		80	119	20
	2-Hexanone	100	110	ug/L	110	0		57	139	20
	Dibromochloromethane	20	21.1	ug/L	106	4		74	126	20
	Tetrachloroethene	20	19.8	ug/L	99	6		74	129	20
	Chlorobenzene	20	18.9	ug/L	95	3		82	118	20
	Ethyl Benzene	20	19.4	ug/L	97	3		79	121	20
	m/p-Xylenes	40	39.8	ug/L	100	3		80	121	20
	o-Xylene	20	20.1	ug/L	101	1		78	122	20
	Styrene	20	20.2	ug/L	101	4		78	123	20
	Bromoform	20	19.5	ug/L	98	3		66	130	20
	Isopropylbenzene	20	19.2	ug/L	96	3		72	131	20
	1,1,2,2-Tetrachloroethane	20	18.7	ug/L	94	3		71	121	20
	1,3-Dichlorobenzene	20	17.3	ug/L	86	2		80	119	20
	1,4-Dichlorobenzene	20	18.5	ug/L	93	8		79	118	20
	1,2-Dichlorobenzene	20	18.2	ug/L	91	7		80	119	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1101WBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P4665

SAS No.: P4665 SDG NO.: P4665

Lab File ID: VN084630.D

Lab Sample ID: VN1101WBL01

Date Analyzed: 11/01/2024

Time Analyzed: 11:29

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
VN1101WBS01	VN1101WBS01	VN084631.D	11/01/2024
VN1101WBSD01	VN1101WBSD01	VN084632.D	11/01/2024
BP-VPB-190-TB-20241029	P4665-01	VN084635.D	11/01/2024
BP-VPB-190-GW-558-560	P4665-05	VN084636.D	11/01/2024
BP-VPB-190-GW-583-585	P4665-06	VN084637.D	11/01/2024
VPB190-HYD-20241030	P4665-02	VN084638.D	11/01/2024
BP-VPB-190-EB-20241030	P4665-03	VN084639.D	11/01/2024
BP-VPB-190-GW-538-540	P4665-04	VN084640.D	11/01/2024
BP-VPB-190-GW-598-600	P4665-07	VN084641.D	11/01/2024

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.: P4665 SAS No.: P4665 SDG NO.: P4665
Lab File ID: VN084569.D BFB Injection Date: 10/30/2024
Instrument ID: MSVOA_N BFB Injection Time: 10:42
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	19.5
75	30.0 - 60.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	1.2 (1.6) 1
174	50.0 - 100.0% of mass 95	73.5
175	5.0 - 9.0% of mass 174	5.7 (7.7) 1
176	95.0 - 101.0% of mass 174	70.1 (95.4) 1
177	5.0 - 9.0% of mass 176	4.8 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC100	VSTDIC100	VN084570.D	10/30/2024	11:46
VSTDICCC050	VSTDICCC050	VN084571.D	10/30/2024	12:09
VSTDIC020	VSTDIC020	VN084572.D	10/30/2024	12:33
VSTDIC010	VSTDIC010	VN084573.D	10/30/2024	12:57
VSTDIC005	VSTDIC005	VN084574.D	10/30/2024	13:21
VSTDIC001	VSTDIC001	VN084575.D	10/30/2024	13:45



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P4665 SAS No.: P4665 SDG NO.: P4665
Lab File ID: VN084627.D BFB Injection Date: 11/01/2024
Instrument ID: MSVOA_N BFB Injection Time: 09:48
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	19.5
75	30.0 - 60.0% of mass 95	51.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	1.1 (1.5) 1
174	50.0 - 100.0% of mass 95	74.6
175	5.0 - 9.0% of mass 174	5.4 (7.2) 1
176	95.0 - 101.0% of mass 174	71.2 (95.5) 1
177	5.0 - 9.0% of mass 176	4.9 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN084628.D	11/01/2024	10:22
VN1101WBL01	VN1101WBL01	VN084630.D	11/01/2024	11:29
VN1101WBS01	VN1101WBS01	VN084631.D	11/01/2024	12:08
VN1101WBSD01	VN1101WBSD01	VN084632.D	11/01/2024	12:32
BP-VPB-190-TB-20241029	P4665-01	VN084635.D	11/01/2024	13:53
BP-VPB-190-GW-558-560	P4665-05	VN084636.D	11/01/2024	14:17
BP-VPB-190-GW-583-585	P4665-06	VN084637.D	11/01/2024	14:42
VPB190-HYD-20241030	P4665-02	VN084638.D	11/01/2024	15:06
BP-VPB-190-EB-20241030	P4665-03	VN084639.D	11/01/2024	15:30
BP-VPB-190-GW-538-540	P4665-04	VN084640.D	11/01/2024	15:54
BP-VPB-190-GW-598-600	P4665-07	VN084641.D	11/01/2024	16:19
VSTDCCC050EC	VSTDCCC050	VN084643.D	11/01/2024	17:07

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P4665 SAS No.: P4665 SDG NO.: P4665
Lab File ID: VN084628.D Date Analyzed: 11/01/2024
Instrument ID: MSVOA_N Time Analyzed: 10:22
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	184180	8.22	299507	9.10	271207	11.87
UPPER LIMIT	368360	8.724	599014	9.6	542414	12.365
LOWER LIMIT	92090	7.724	149754	8.6	135604	11.365
EPA SAMPLE NO.						
BP-VPB-190-TB-20241029	171981	8.22	304211	9.10	270682	11.86
VPB190-HYD-20241030	170724	8.22	295624	9.10	261626	11.87
BP-VPB-190-EB-20241030	170733	8.22	299750	9.10	267728	11.87
BP-VPB-190-GW-538-540	175313	8.22	307267	9.10	280834	11.87
BP-VPB-190-GW-558-560	179662	8.22	311395	9.10	278810	11.87
BP-VPB-190-GW-583-585	182088	8.22	322631	9.10	288967	11.87
BP-VPB-190-GW-598-600	169823	8.22	295064	9.10	266018	11.87
VN1101WBL01	180035	8.22	318575	9.10	285991	11.87
VN1101WBS01	190995	8.22	320452	9.10	287801	11.87
VN1101WBSD01	179647	8.22	303928	9.10	276373	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.: P4665 SAS No.: P4665 SDG NO.: P4665
Lab File ID: VN084628.D Date Analyzed: 11/01/2024
Instrument ID: MSVOA_N Time Analyzed: 10:22
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	136355	13.794				
UPPER LIMIT	272710	14.294				
LOWER LIMIT	68177.5	13.294				
EPA SAMPLE NO.						
BP-VPB-190-TB-20241029	117747	13.79				
VPB190-HYD-20241030	113670	13.79				
BP-VPB-190-EB-20241030	115295	13.79				
BP-VPB-190-GW-538-540	124509	13.79				
BP-VPB-190-GW-558-560	121785	13.79				
BP-VPB-190-GW-583-585	124365	13.79				
BP-VPB-190-GW-598-600	115441	13.79				
VN1101WBL01	125664	13.79				
VN1101WBS01	147052	13.79				
VN1101WBSD01	139639	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:	10/29/24	
Project:	CTO WE13			Date Received:	10/31/24	
Client Sample ID:	BP-VPB-190-TB-20241029			SDG No.:	P4665	
Lab Sample ID:	P4665-01			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
VN084635.D	1		11/01/24 13:53	VN110124

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:	10/29/24		
Project:	CTO WE13			Date Received:	10/31/24		
Client Sample ID:	BP-VPB-190-TB-20241029			SDG No.:	P4665		
Lab Sample ID:	P4665-01			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
VN084635.D	1		11/01/24 13:53	VN110124

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	50.8		81 - 118		102%	SPK: 50
1868-53-7	Dibromofluoromethane	49.2		80 - 119		98%	SPK: 50
2037-26-5	Toluene-d8	47.0		89 - 112		94%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.6		85 - 114		95%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	172000	8.223				
540-36-3	1,4-Difluorobenzene	304000	9.1				
3114-55-4	Chlorobenzene-d5	271000	11.864				
3855-82-1	1,4-Dichlorobenzene-d4	118000	13.794				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	10/29/24	
Project:	CTO WE13		Date Received:	10/31/24	
Client Sample ID:	BP-VPB-190-TB-20241029		SDG No.:	P4665	
Lab Sample ID:	P4665-01		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
VN084635.D	1		11/01/24 13:53	VN110124

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\VN110124\
Data File : VN084635.D
Acq On : 01 Nov 2024 13:53
Operator : JC\MD
Sample : P4665-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-TB-20241029

Quant Time: Nov 04 04:27:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

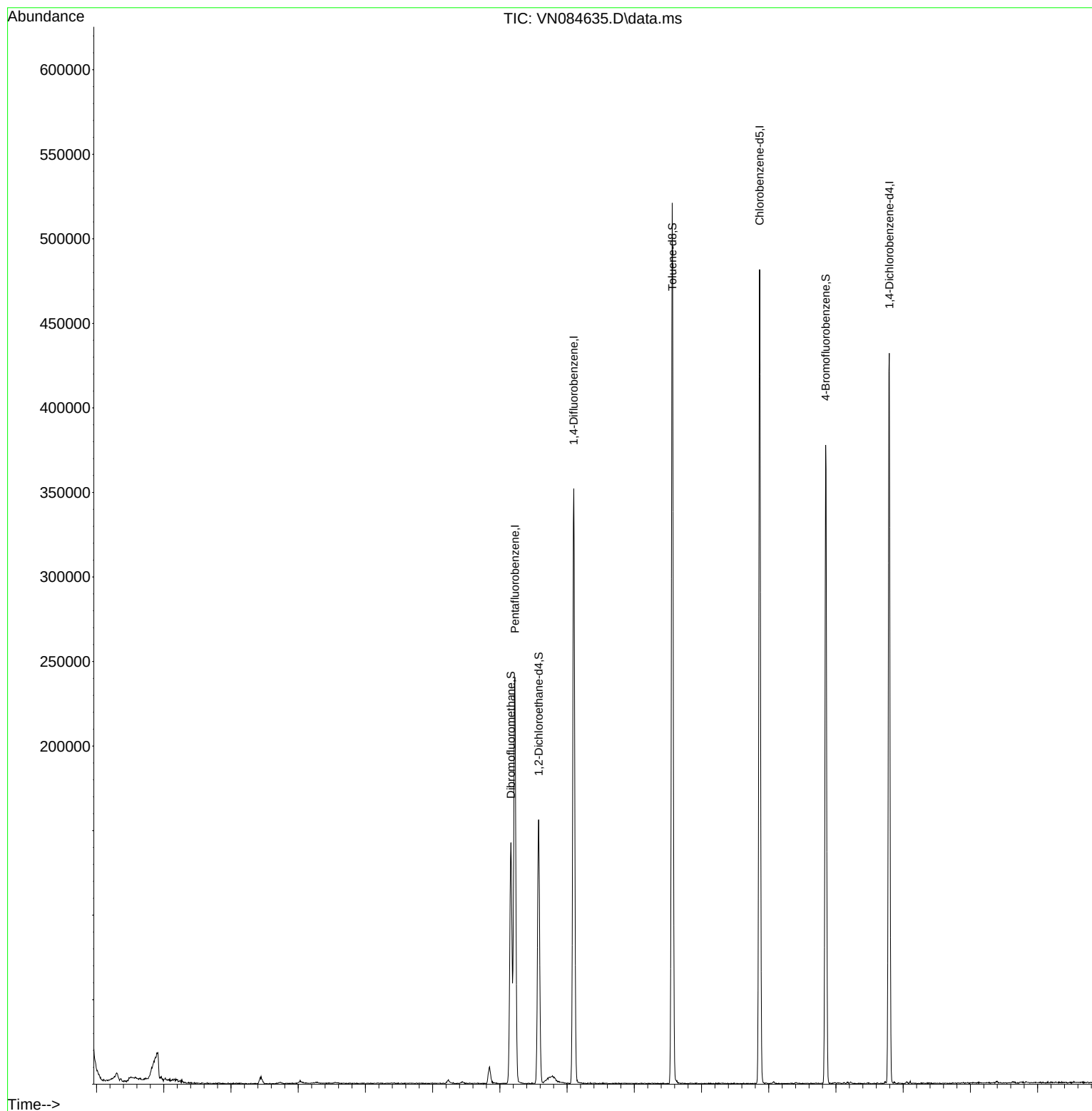
Internal Standards						
1) Pentafluorobenzene	8.223	168	171981	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	304211	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.864	117	270682	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	117747	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	126157	50.788	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	101.580%	
35) Dibromofluoromethane	8.165	113	101331	49.210	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	98.420%	
50) Toluene-d8	10.565	98	356786	47.037	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	94.080%	
62) 4-Bromofluorobenzene	12.847	95	134831	47.562	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	95.120%	
Target Compounds						
29) Tetrahydrofuran	7.841	42	7157	9.309	ug/l	Qvalue 97

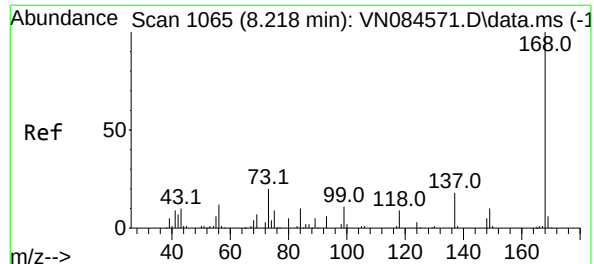
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084635.D
Acq On : 01 Nov 2024 13:53
Operator : JC\MD
Sample : P4665-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-TB-20241029

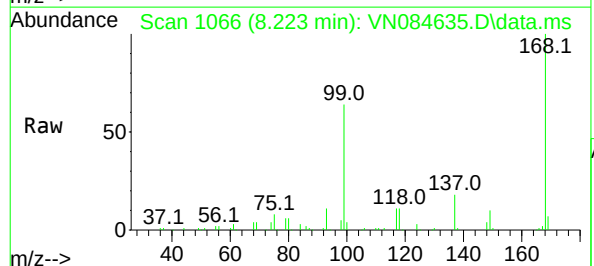
Quant Time: Nov 04 04:27:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



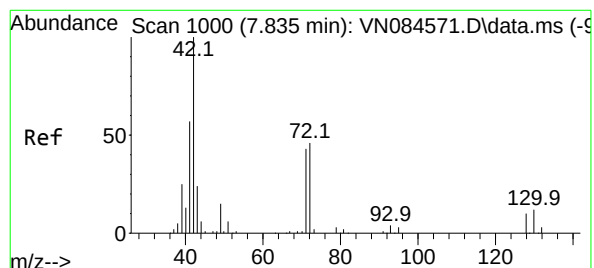
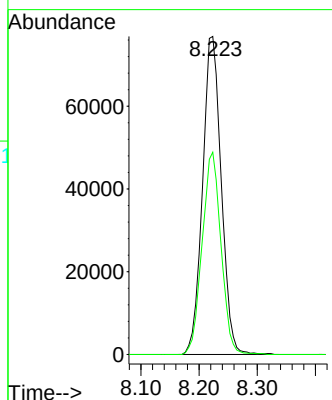
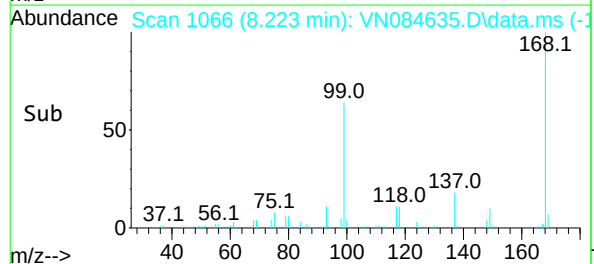


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.223 min Scan# 1066
Delta R.T. -0.001 min
Lab File: VN084635.D
Acq: 01 Nov 2024 13:53

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-TB-20241029

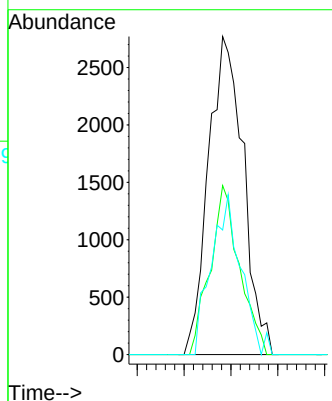
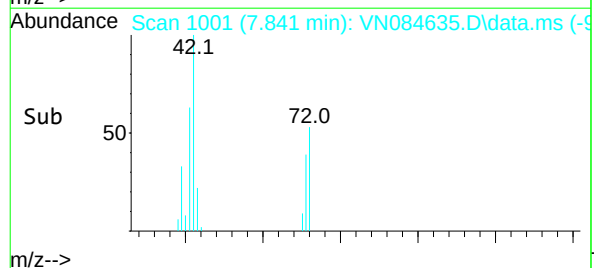
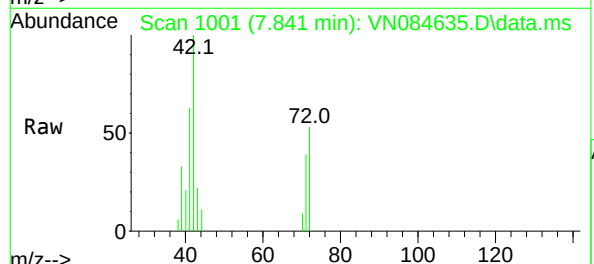


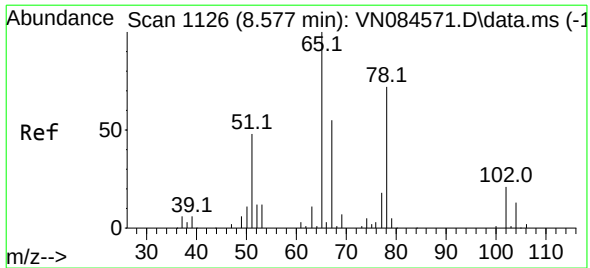
Tgt Ion: 168 Resp: 171981
Ion Ratio Lower Upper
168 100
99 63.6 54.2 81.2



#29
Tetrahydrofuran
Concen: 9.309 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN084635.D
Acq: 01 Nov 2024 13:53

Tgt Ion: 42 Resp: 7157
Ion Ratio Lower Upper
42 100
72 44.9 34.6 51.8
71 43.0 32.2 48.4





#33

1,2-Dichloroethane-d4

Concen: 50.788 ug/l

RT: 8.576 min Scan# 11

Delta R.T. -0.001 min

Lab File: VN084635.D

Acq: 01 Nov 2024 13:53

Instrument :

MSVOA_N

ClientSampleId :

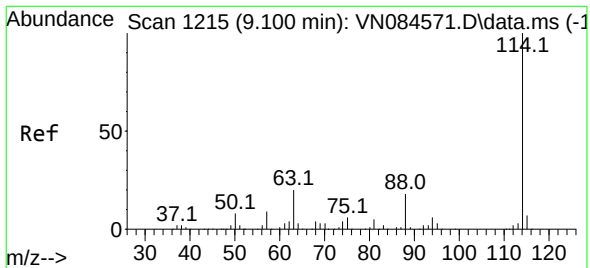
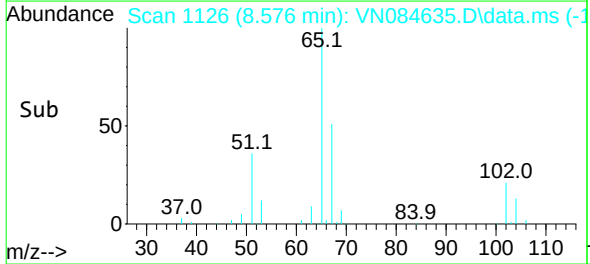
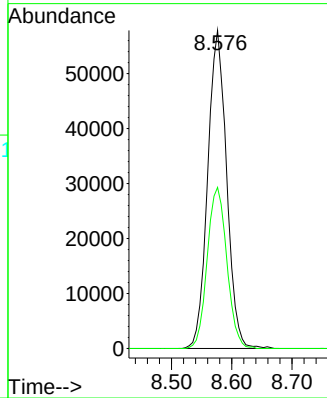
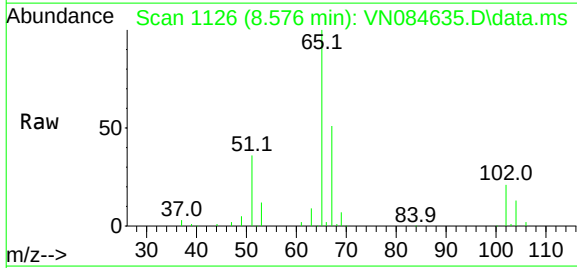
BP-VPB-190-TB-20241029

Tgt Ion: 65 Resp: 126157

Ion Ratio Lower Upper

65 100

67 52.4 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN084635.D

Acq: 01 Nov 2024 13:53

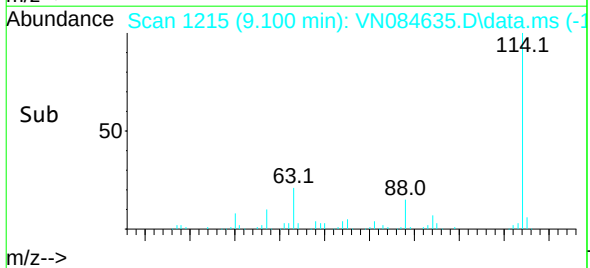
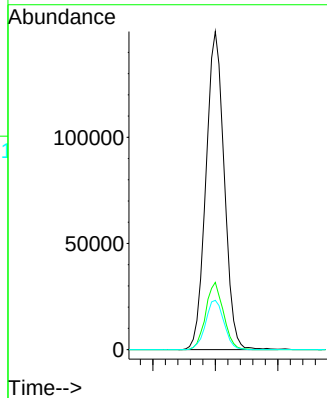
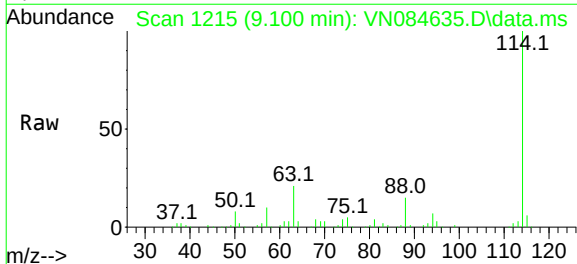
Tgt Ion: 114 Resp: 304211

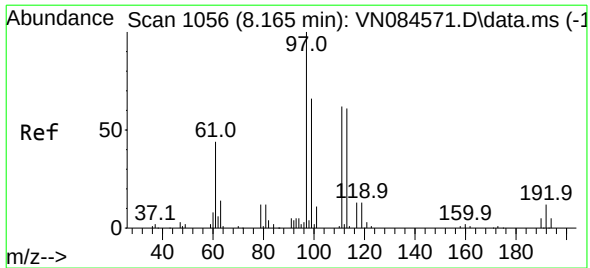
Ion Ratio Lower Upper

114 100

63 21.1 0.0 43.8

88 15.5 0.0 31.6





#35

Dibromofluoromethane

Concen: 49.210 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN084635.D

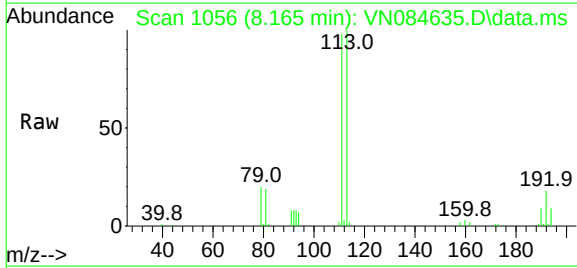
Acq: 01 Nov 2024 13:53

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190-TB-20241029



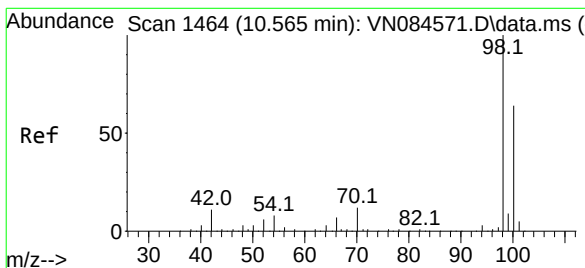
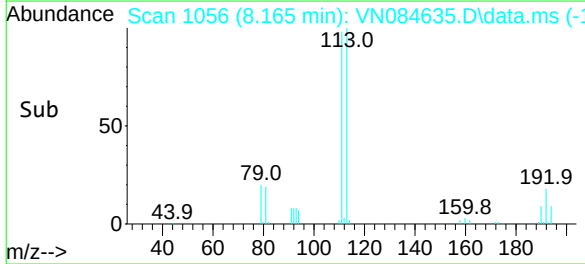
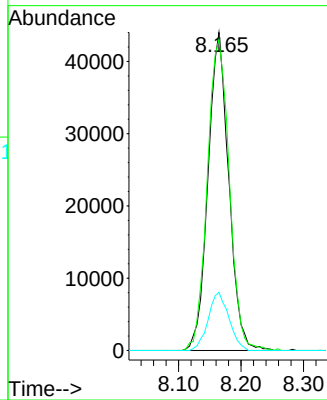
Tgt Ion:113 Resp: 101331

Ion Ratio Lower Upper

113 100

111 104.0 83.3 124.9

192 18.3 13.5 20.3



#50

Toluene-d8

Concen: 47.037 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084635.D

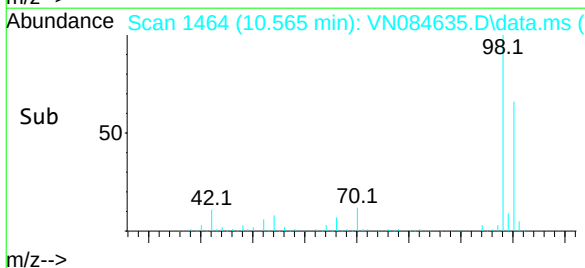
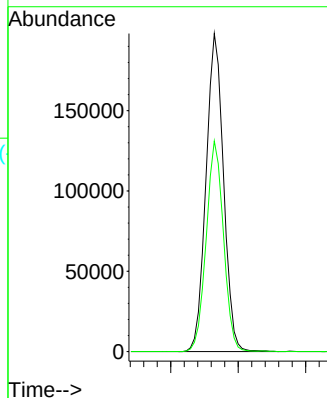
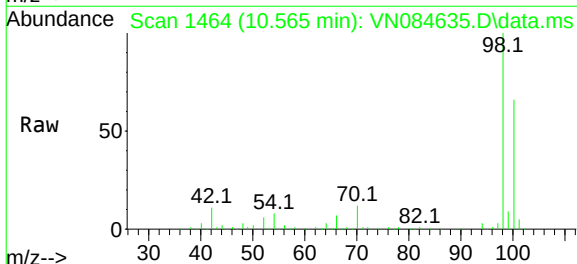
Acq: 01 Nov 2024 13:53

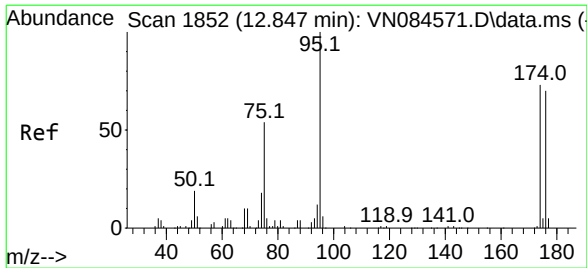
Tgt Ion: 98 Resp: 356786

Ion Ratio Lower Upper

98 100

100 65.4 52.7 79.1





#62

4-Bromofluorobenzene

Concen: 47.562 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN084635.D

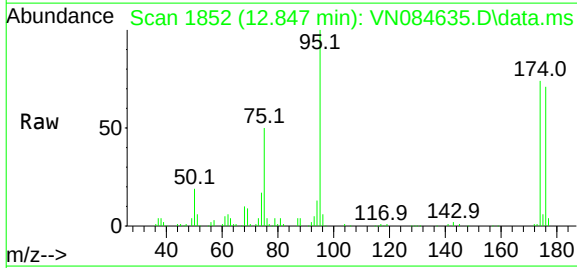
Acq: 01 Nov 2024 13:53

Instrument :

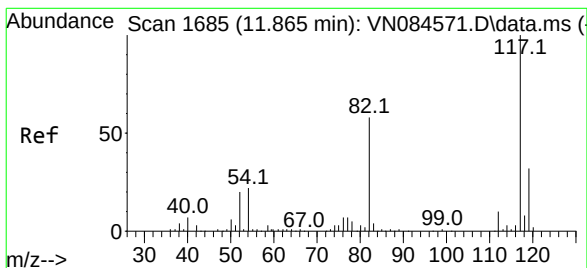
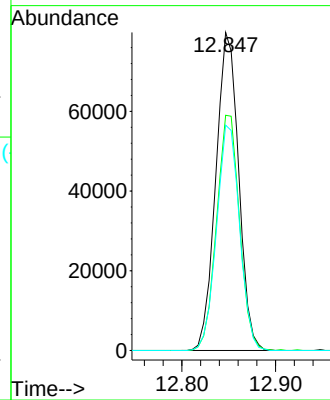
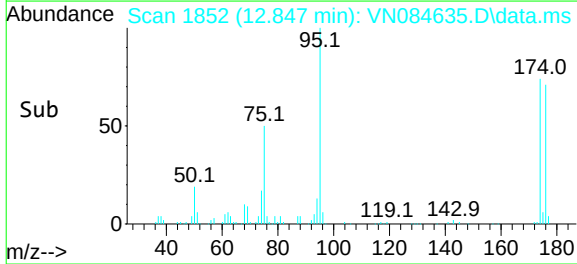
MSVOA_N

ClientSampleId :

BP-VPB-190-TB-20241029



Tgt Ion:	95	Resp:	134831
Ion	Ratio	Lower	Upper
95	100		
174	74.5	0.0	145.2
176	71.3	0.0	140.0



#63

Chlorobenzene-d5

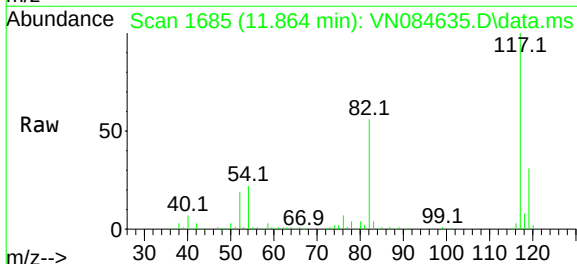
Concen: 50.000 ug/l

RT: 11.864 min Scan# 1685

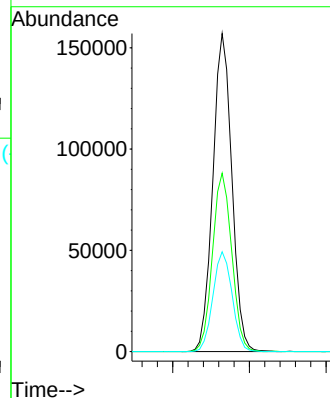
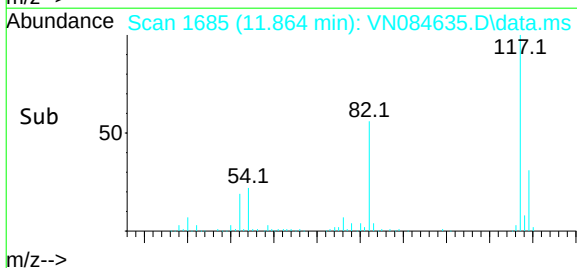
Delta R.T. -0.001 min

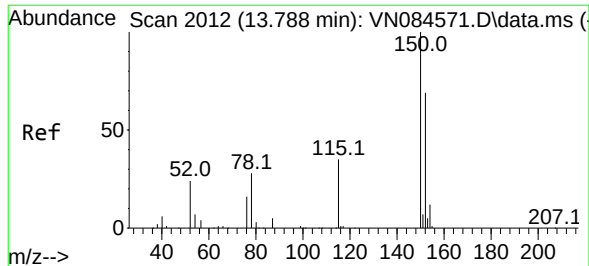
Lab File: VN084635.D

Acq: 01 Nov 2024 13:53



Tgt Ion:	117	Resp:	270682
Ion	Ratio	Lower	Upper
117	100		
82	56.1	47.2	70.8
119	31.4	25.4	38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.006 min

Lab File: VN084635.D

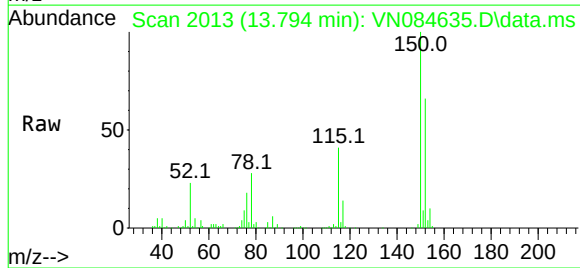
Acq: 01 Nov 2024 13:53

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190-TB-20241029



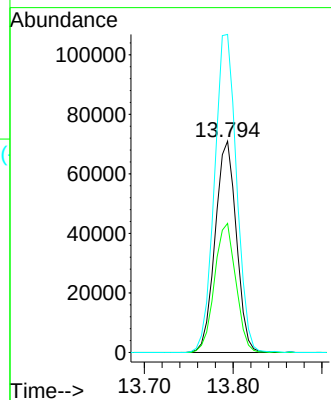
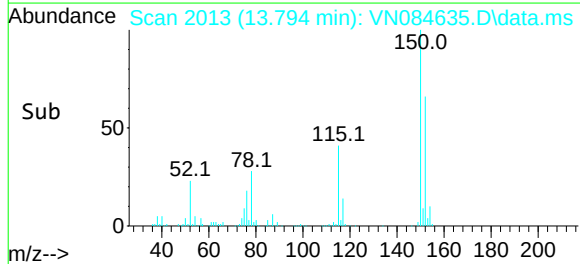
Tgt Ion:152 Resp: 117747

Ion Ratio Lower Upper

152 100

115 61.6 31.3 93.9

150 157.0 0.0 349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084635.D
Acq On : 01 Nov 2024 13:53
Operator : JC\MD
Sample : P4665-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-TB-20241029

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\82N103024W.M
Title : SW846 8260

Signal : TIC: VN084635.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.300	55	59	66	rVB3	4507	10621	1.12%	0.206%
2	2.818	138	147	148	rBV5	6748	11460	1.21%	0.223%
3	2.877	149	157	158	rBV5	6203	12649	1.33%	0.246%
4	7.847	994	1002	1010	rBV2	10052	25028	2.64%	0.486%
5	8.165	1045	1056	1060	rBV	142444	327648	34.51%	6.366%
6	8.223	1060	1066	1082	rVB	240119	543758	57.27%	10.565%
7	8.576	1117	1126	1138	rBV2	156070	344807	36.32%	6.700%
8	9.100	1206	1215	1226	rBV	351756	716967	75.51%	13.931%
9	10.565	1456	1464	1478	rBV	520935	949486	100.00%	18.449%
10	11.864	1676	1685	1695	rBV	481480	829846	87.40%	16.124%
11	12.847	1845	1852	1861	rVB	377676	640516	67.46%	12.446%
12	13.794	2005	2013	2023	rVB	431802	733769	77.28%	14.257%

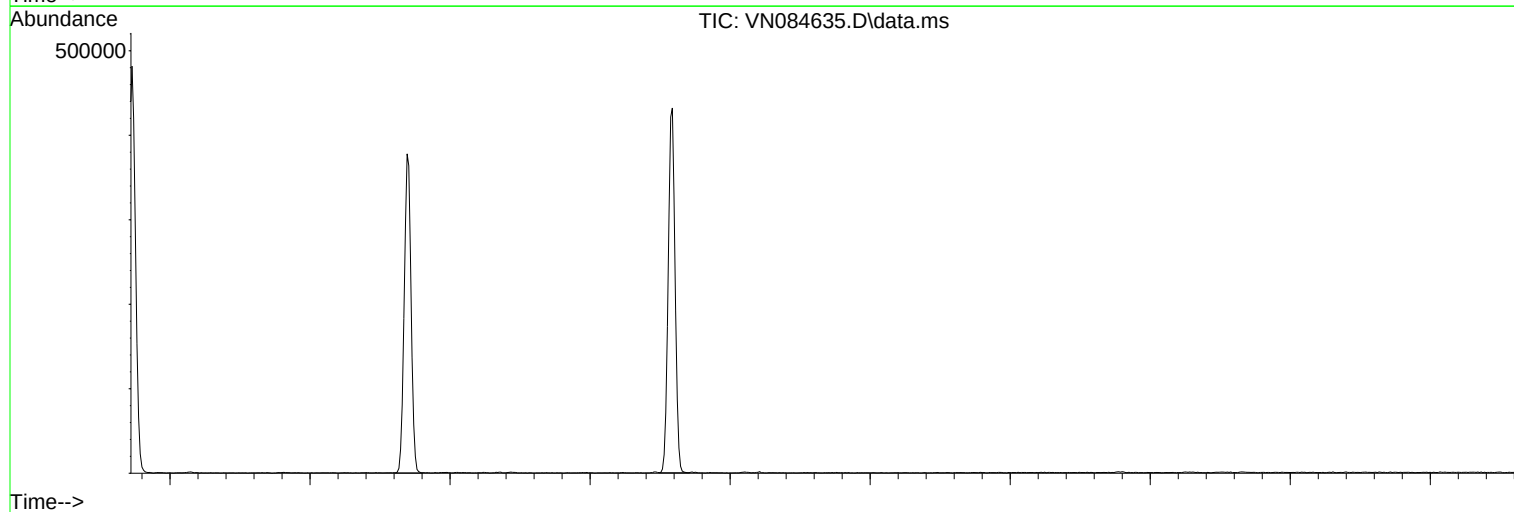
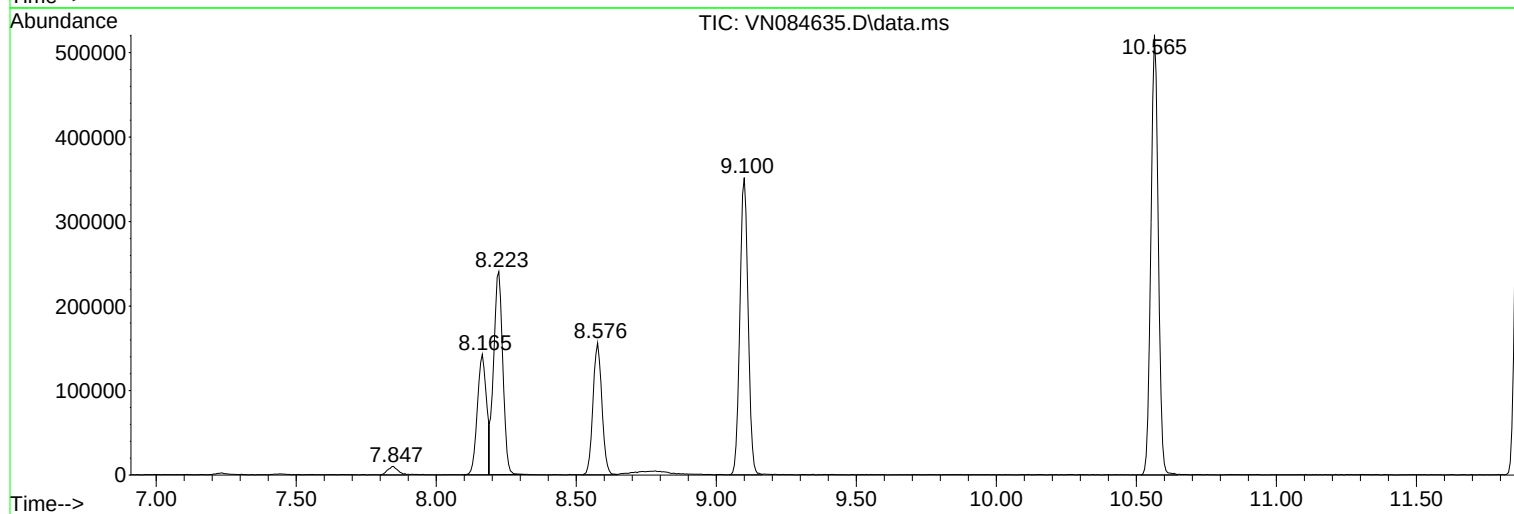
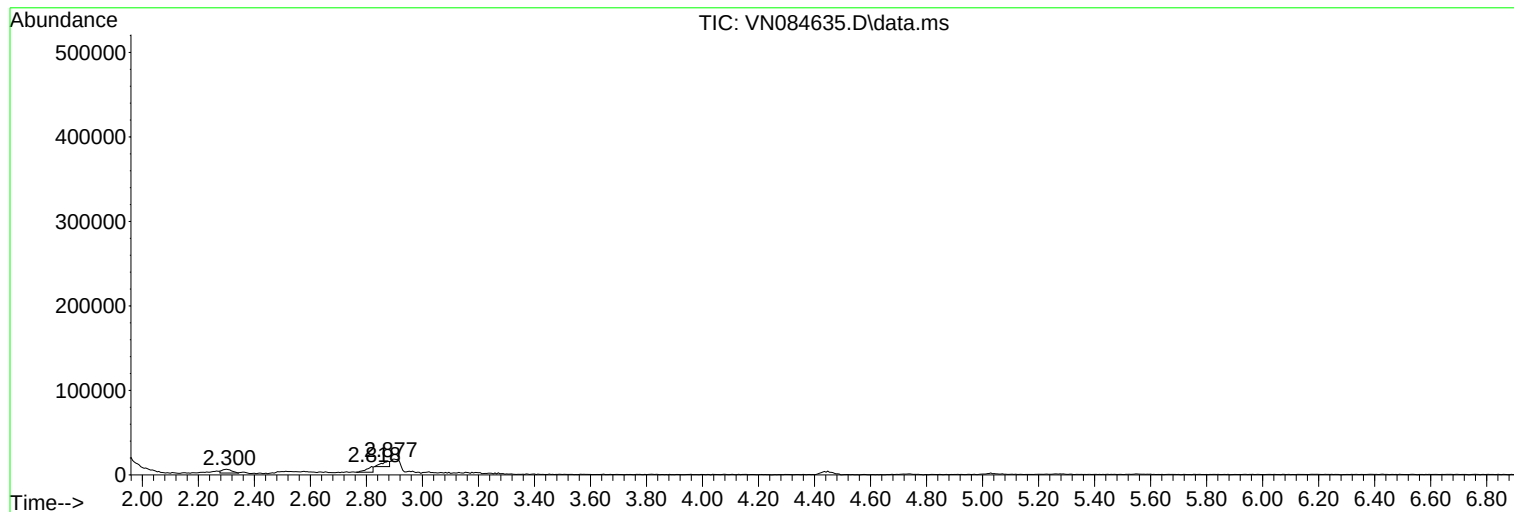
Sum of corrected areas: 5146555

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084635.D
Acq On : 01 Nov 2024 13:53
Operator : JC\MD
Sample : P4665-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-TB-20241029

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084635.D
Acq On : 01 Nov 2024 13:53
Operator : JC\MD
Sample : P4665-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-TB-20241029

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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\VN110124\
Data File : VN084635.D
Acq On : 01 Nov 2024 13:53
Operator : JC\MD
Sample : P4665-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-TB-20241029

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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:	10/30/24		
Project:	CTO WE13			Date Received:	10/31/24		
Client Sample ID:	VPB190-HYD-20241030			SDG No.:	P4665		
Lab Sample ID:	P4665-02			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
VN084638.D	1		11/01/24 15:06	VN110124

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:	10/30/24
Project:	CTO WE13	Date Received:	10/31/24
Client Sample ID:	VPB190-HYD-20241030	SDG No.:	P4665
Lab Sample ID:	P4665-02	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
VN084638.D	1		11/01/24 15:06	VN110124

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	49.6		81 - 118		99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	46.2		89 - 112		92%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.9		85 - 114		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	171000	8.224				
540-36-3	1,4-Difluorobenzene	296000	9.1				
3114-55-4	Chlorobenzene-d5	262000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	114000	13.788				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	10/30/24	
Project:	CTO WE13			Date Received:	10/31/24	
Client Sample ID:	VPB190-HYD-20241030			SDG No.:	P4665	
Lab Sample ID:	P4665-02			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
VN084638.D	1		11/01/24 15:06	VN110124

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\VN110124\
Data File : VN084638.D
Acq On : 01 Nov 2024 15:06
Operator : JC\MD
Sample : P4665-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VPB190-HYD-20241030

Quant Time: Nov 04 04:53:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	170724	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	295624	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	261626	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	113670	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	122273	49.587	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	99.180%	
35) Dibromofluoromethane	8.165	113	101724	50.836	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	101.680%	
50) Toluene-d8	10.565	98	340502	46.194	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	92.380%	
62) 4-Bromofluorobenzene	12.847	95	129227	46.909	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	93.820%	

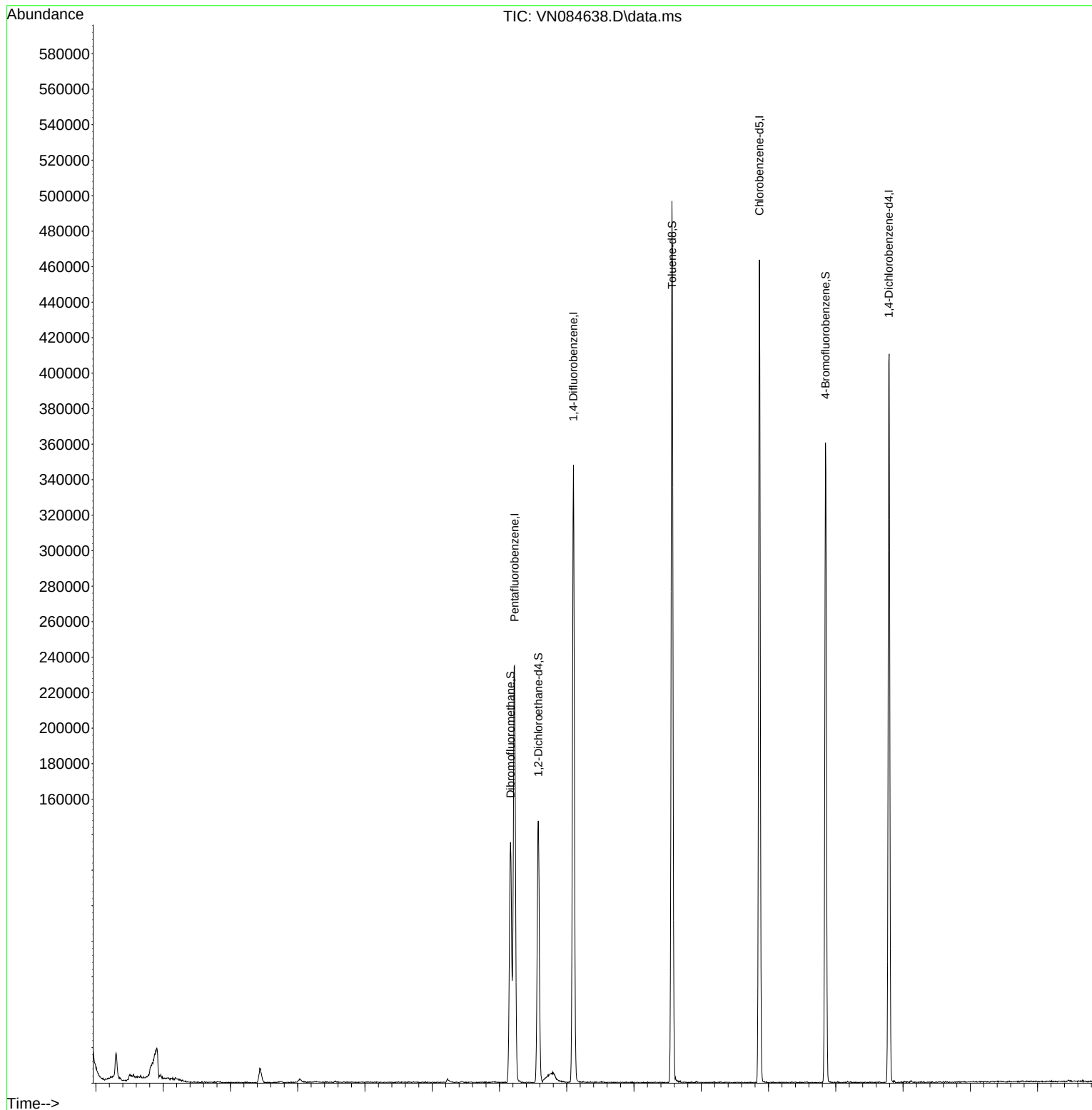
Target Compounds	Qvalue

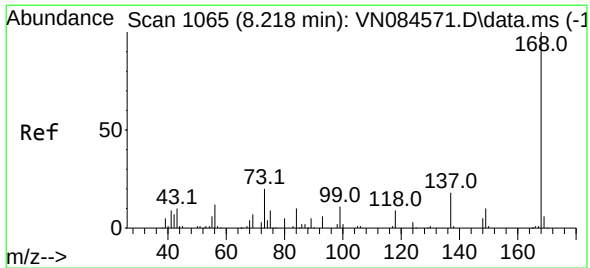
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084638.D
Acq On : 01 Nov 2024 15:06
Operator : JC\MD
Sample : P4665-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VPB190-HYD-20241030

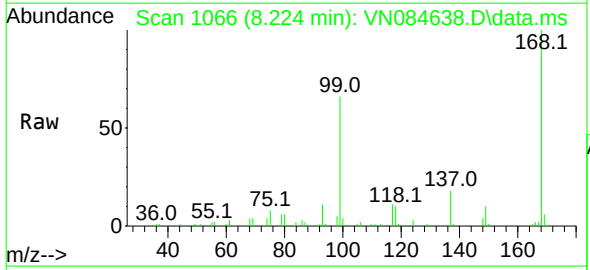
Quant Time: Nov 04 04:53:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



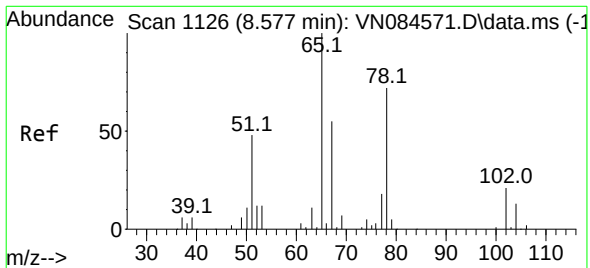
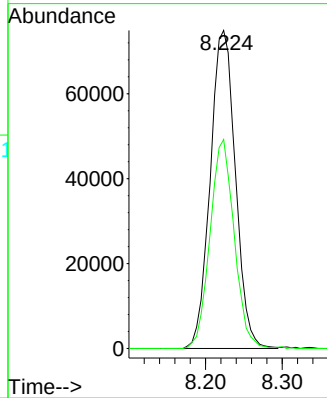
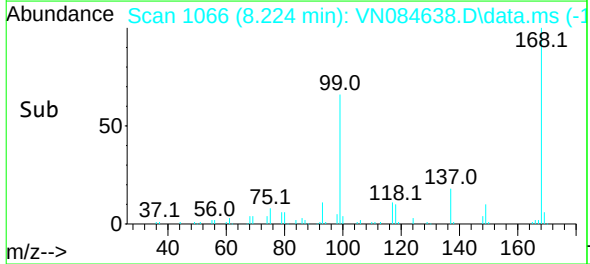


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084638.D
Acq: 01 Nov 2024 15:06

Instrument :
MSVOA_N
ClientSampleId :
VPB190-HYD-20241030

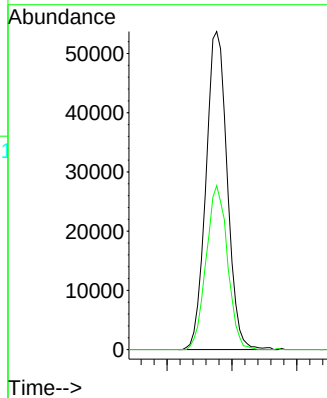
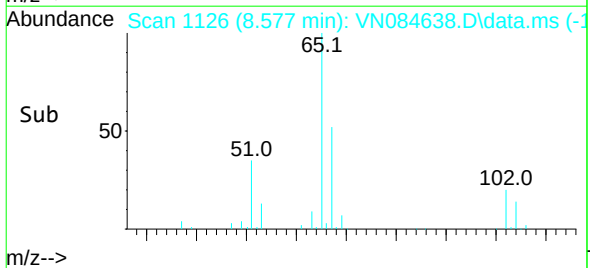
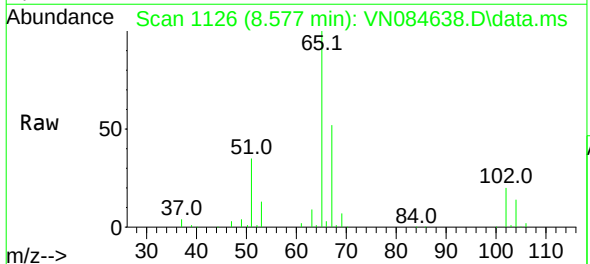


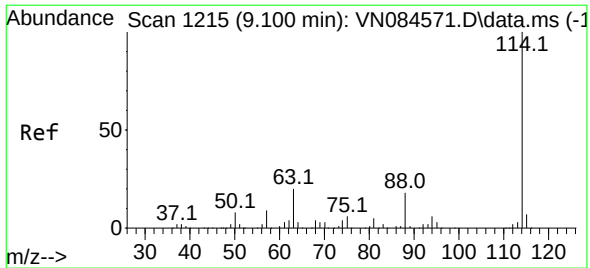
Tgt Ion:168 Resp: 170724
Ion Ratio Lower Upper
168 100
99 65.7 54.2 81.2



#33
1,2-Dichloroethane-d4
Concen: 49.587 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084638.D
Acq: 01 Nov 2024 15:06

Tgt Ion: 65 Resp: 122273
Ion Ratio Lower Upper
65 100
67 51.6 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN084638.D

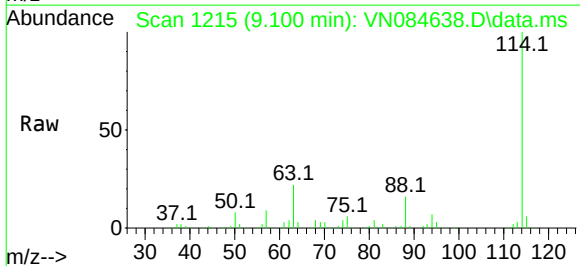
Acq: 01 Nov 2024 15:06

Instrument :

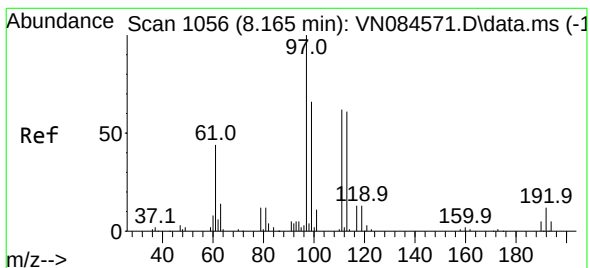
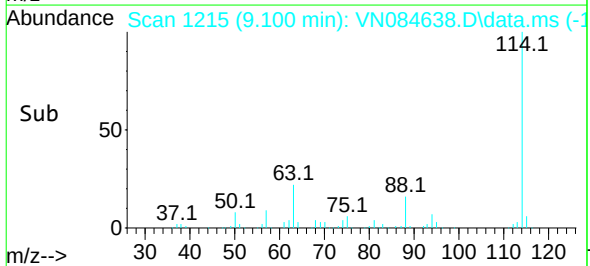
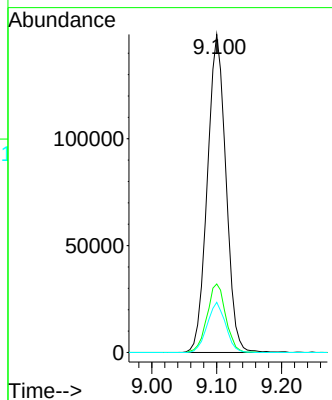
MSVOA_N

ClientSampleId :

VPB190-HYD-20241030



Tgt Ion:	114	Resp:	295624
Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	43.8
88	15.8	0.0	31.6



#35

Dibromofluoromethane

Concen: 50.836 ug/l

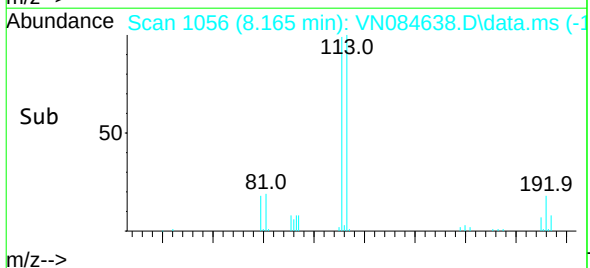
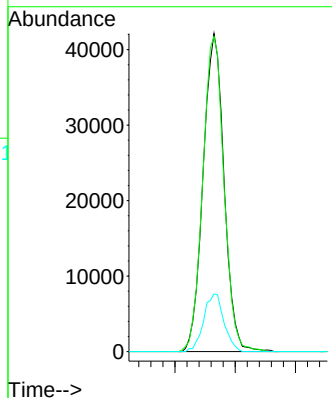
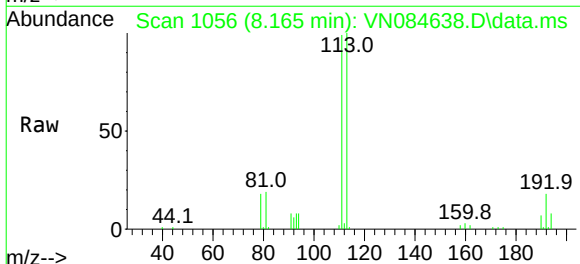
RT: 8.165 min Scan# 1056

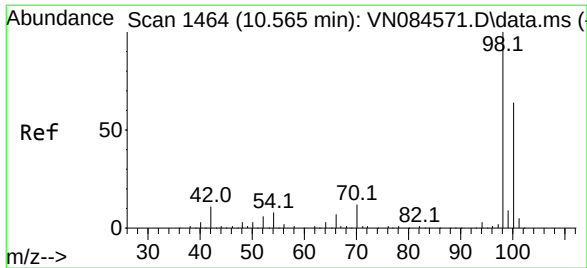
Delta R.T. -0.000 min

Lab File: VN084638.D

Acq: 01 Nov 2024 15:06

Tgt Ion:	113	Resp:	101724
Ion	Ratio	Lower	Upper
113	100		
111	100.2	83.3	124.9
192	17.4	13.5	20.3





#50

Toluene-d8

Concen: 46.194 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084638.D

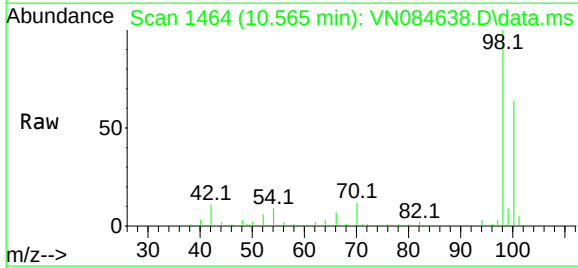
Acq: 01 Nov 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

VPB190-HYD-20241030

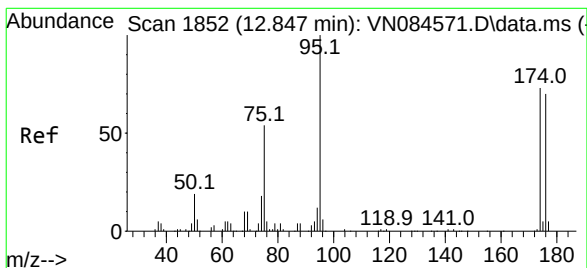
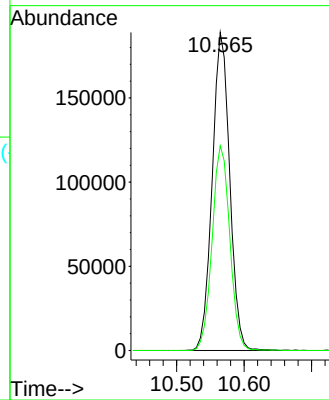
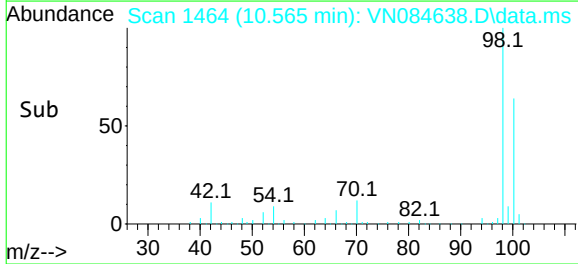


Tgt Ion: 98 Resp: 340502

Ion Ratio Lower Upper

98 100

100 65.1 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 46.909 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN084638.D

Acq: 01 Nov 2024 15:06

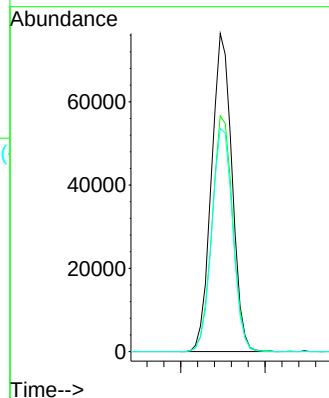
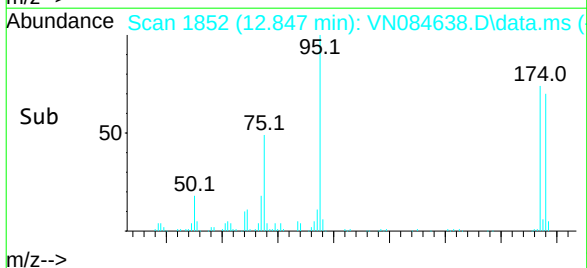
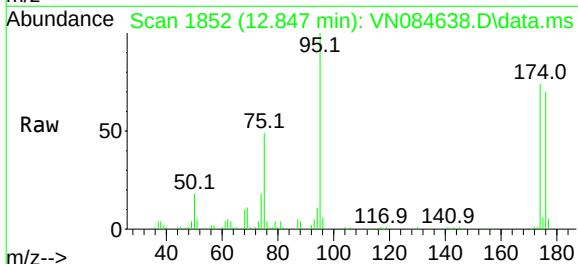
Tgt Ion: 95 Resp: 129227

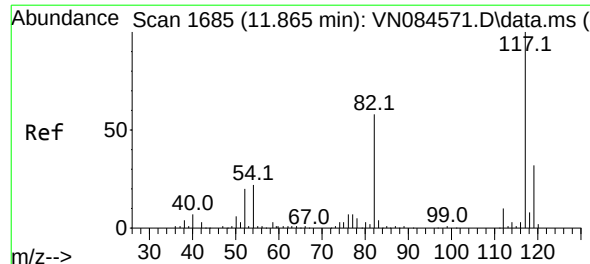
Ion Ratio Lower Upper

95 100

174 74.7 0.0 145.2

176 71.2 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 16

Delta R.T. -0.000 min

Lab File: VN084638.D

Acq: 01 Nov 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

VPB190-HYD-20241030

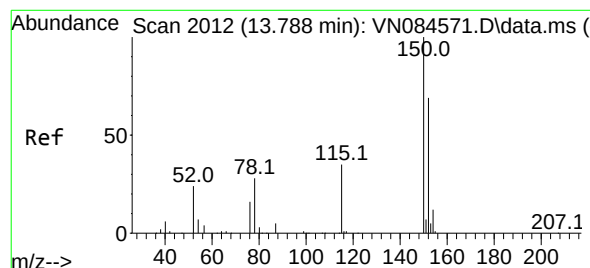
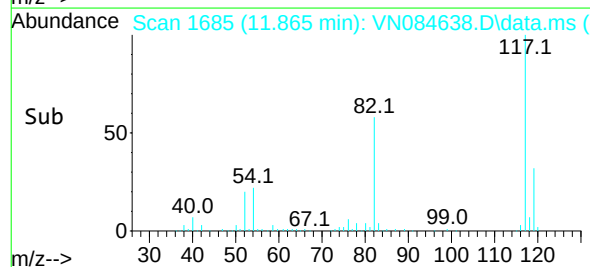
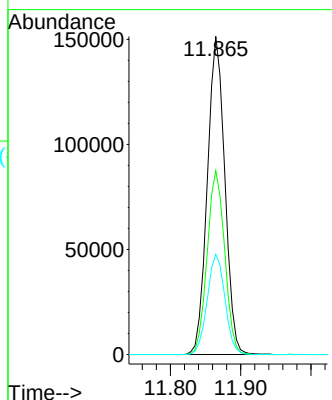
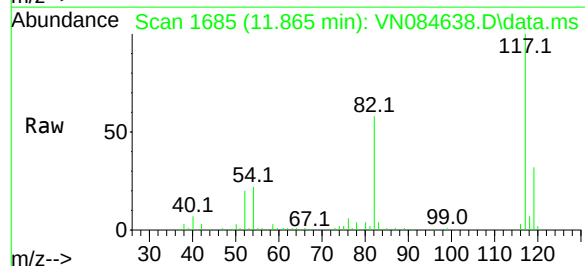
Tgt Ion:117 Resp: 261626

Ion Ratio Lower Upper

117 100

82 57.8 47.2 70.8

119 31.5 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN084638.D

Acq: 01 Nov 2024 15:06

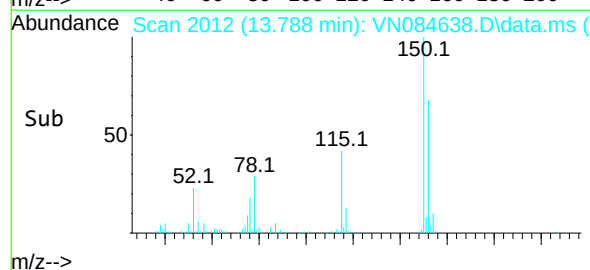
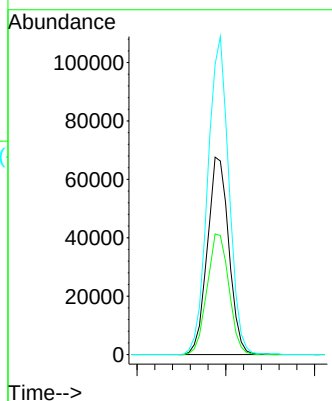
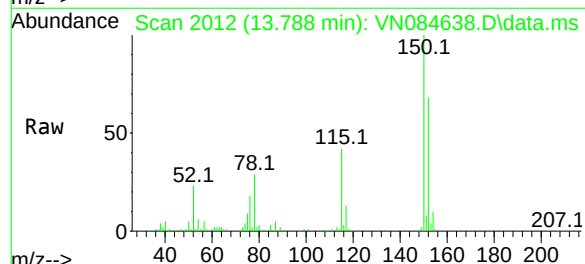
Tgt Ion:152 Resp: 113670

Ion Ratio Lower Upper

152 100

115 62.0 31.3 93.9

150 158.6 0.0 349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084638.D
Acq On : 01 Nov 2024 15:06
Operator : JC\MD
Sample : P4665-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VPB190-HYD-20241030

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\82N103024W.M

Title : SW846 8260

Signal : TIC: VN084638.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.300	53	59	69	rVB4	14558	31557	3.48%	0.632%
2	2.824	142	148	149	rBV3	5753	10271	1.13%	0.206%
3	4.436	414	422	433	rBV4	8283	23873	2.64%	0.478%
4	8.165	1046	1056	1060	rBV2	135337	317296	35.04%	6.355%
5	8.224	1060	1066	1077	rVB	234120	533159	58.88%	10.678%
6	8.577	1113	1126	1137	rBV	147599	331265	36.58%	6.635%
7	8.724	1137	1151	1152	rBV3	4213	12834	1.42%	0.257%
8	9.100	1206	1215	1228	rBV	347732	699021	77.20%	14.000%
9	10.565	1455	1464	1472	rBV	496673	905512	100.00%	18.136%
10	11.865	1678	1685	1695	rBV	463548	810535	89.51%	16.233%
11	12.847	1845	1852	1860	rBV	360328	615679	67.99%	12.331%
12	13.794	2005	2013	2023	rVB	410322	701989	77.52%	14.059%

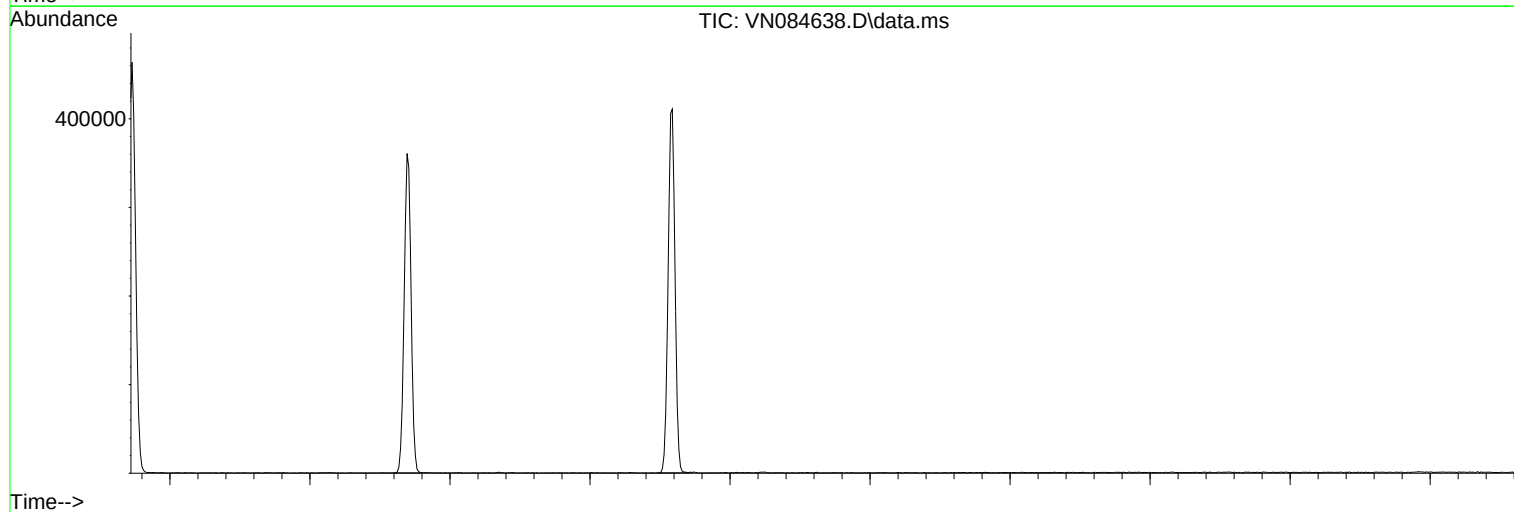
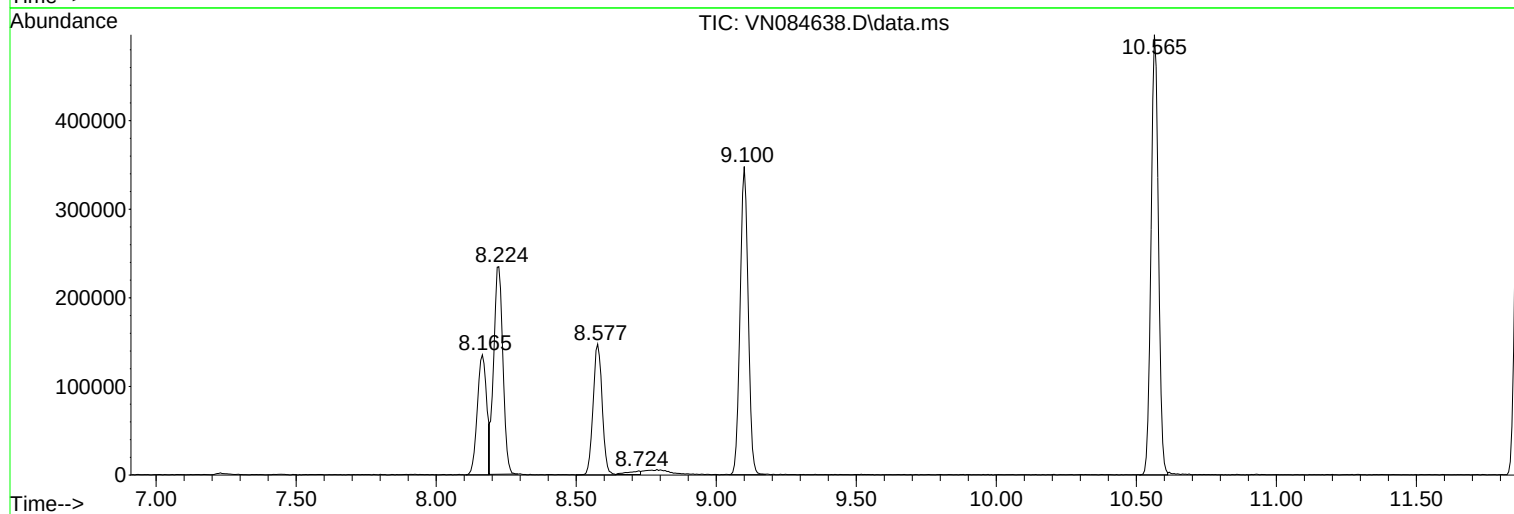
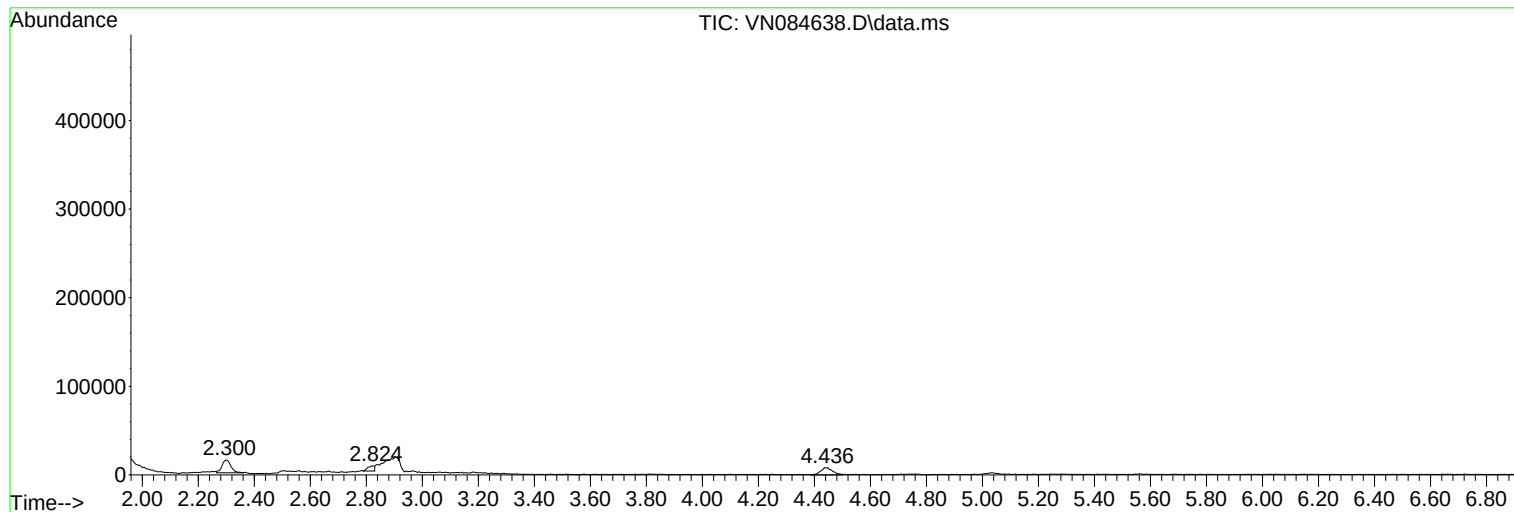
Sum of corrected areas: 4992991

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084638.D
Acq On : 01 Nov 2024 15:06
Operator : JC\MD
Sample : P4665-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VPB190-HYD-20241030

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084638.D
Acq On : 01 Nov 2024 15:06
Operator : JC\MD
Sample : P4665-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VPB190-HYD-20241030

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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\VN110124\
Data File : VN084638.D
Acq On : 01 Nov 2024 15:06
Operator : JC\MD
Sample : P4665-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VPB190-HYD-20241030

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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:	10/30/24		
Project:	CTO WE13			Date Received:	10/31/24		
Client Sample ID:	BP-VPB-190-EB-20241030			SDG No.:	P4665		
Lab Sample ID:	P4665-03			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
VN084639.D	1		11/01/24 15:30	VN110124

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:	10/30/24		
Project:	CTO WE13			Date Received:	10/31/24		
Client Sample ID:	BP-VPB-190-EB-20241030			SDG No.:	P4665		
Lab Sample ID:	P4665-03			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
VN084639.D	1		11/01/24 15:30	VN110124

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	49.9		81 - 118		100%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	47.9		89 - 112		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.7		85 - 114		91%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	171000	8.218				
540-36-3	1,4-Difluorobenzene	300000	9.1				
3114-55-4	Chlorobenzene-d5	268000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	115000	13.794				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	10/30/24	
Project:	CTO WE13		Date Received:	10/31/24	
Client Sample ID:	BP-VPB-190-EB-20241030		SDG No.:	P4665	
Lab Sample ID:	P4665-03		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
VN084639.D	1		11/01/24 15:30	VN110124

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\VN110124\
Data File : VN084639.D
Acq On : 01 Nov 2024 15:30
Operator : JC\MD
Sample : P4665-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-EB-20241030

Quant Time: Nov 04 04:28:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	170733	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	299750	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	267728	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	115295	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	122982	49.872	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.740%
35) Dibromofluoromethane	8.165	113	100539	49.552	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.100%
50) Toluene-d8	10.565	98	357815	47.875	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	95.740%
62) 4-Bromofluorobenzene	12.847	95	127690	45.713	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	91.420%

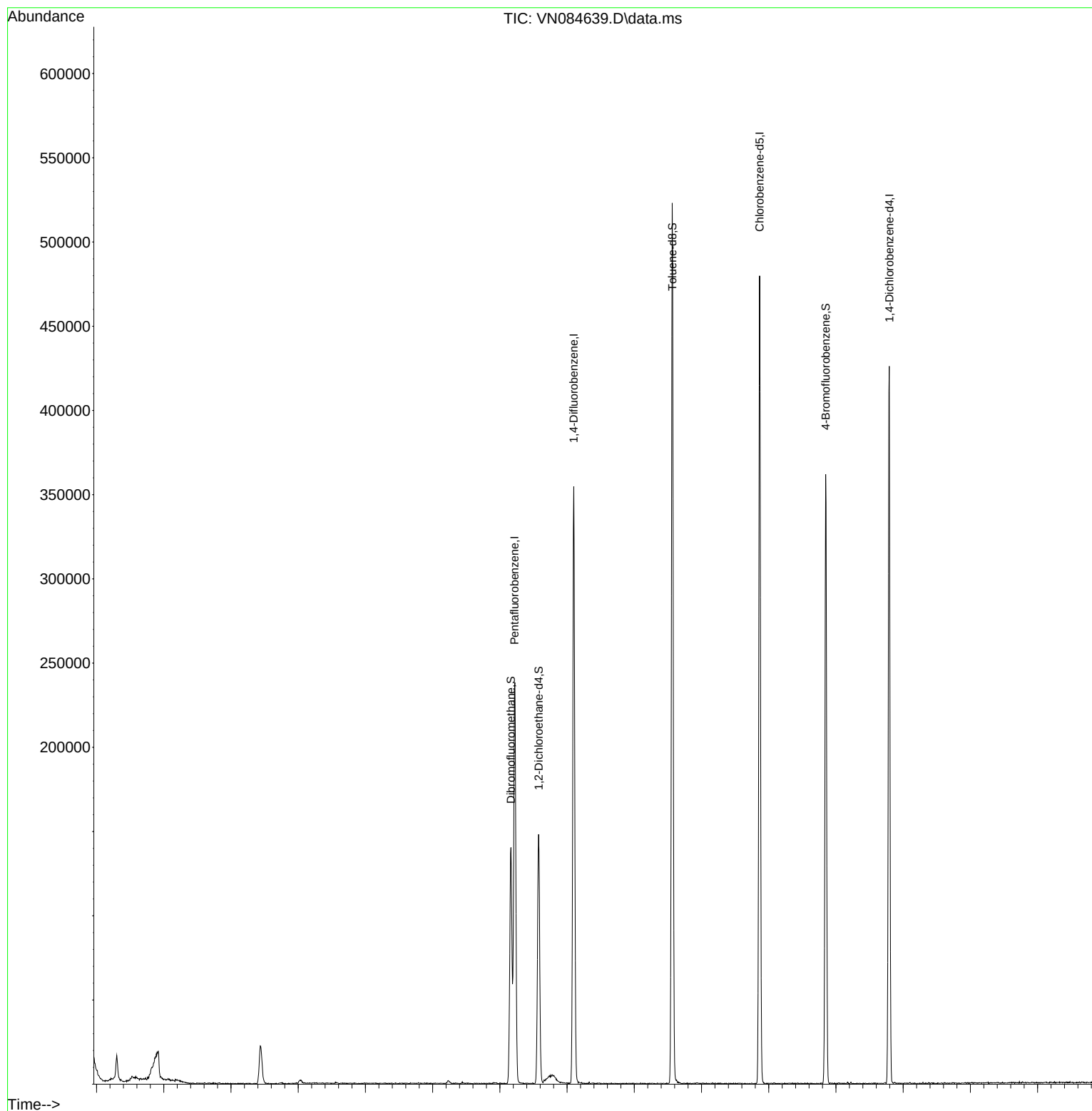
Target Compounds Qvalue

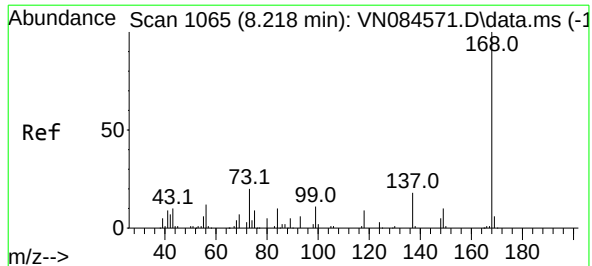
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084639.D
Acq On : 01 Nov 2024 15:30
Operator : JC\MD
Sample : P4665-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-EB-20241030

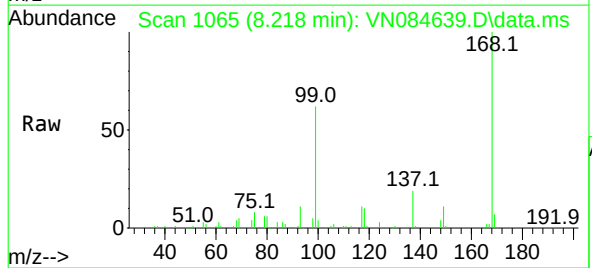
Quant Time: Nov 04 04:28:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



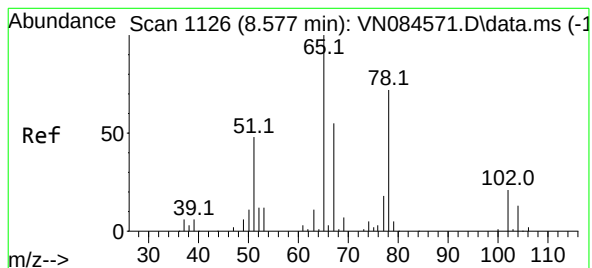
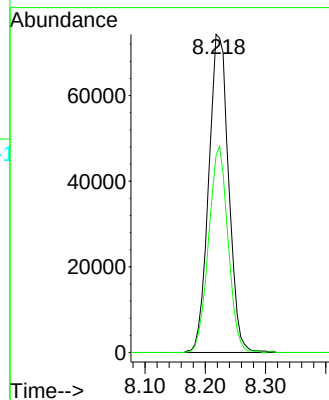
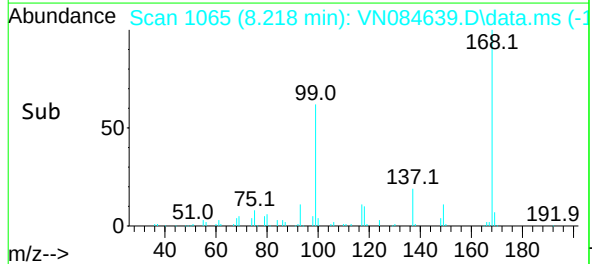


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN084639.D
Acq: 01 Nov 2024 15:30

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-EB-20241030

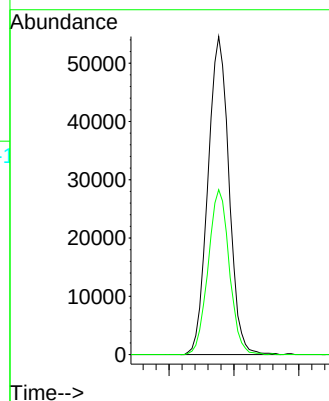
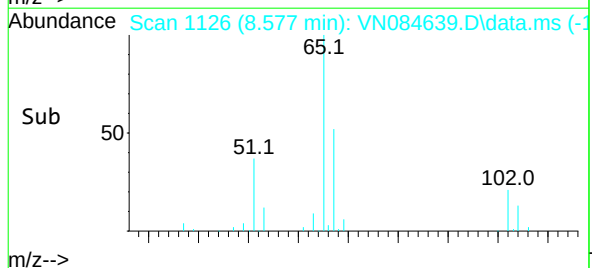
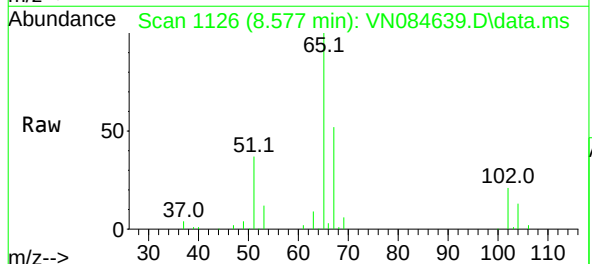


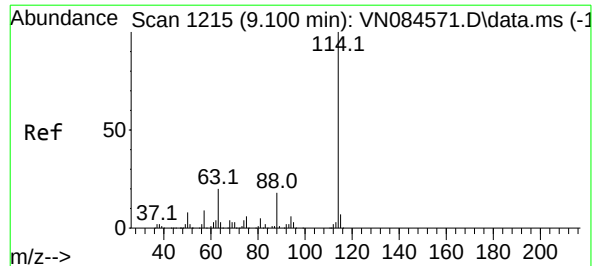
Tgt Ion:168 Resp: 170733
Ion Ratio Lower Upper
168 100
99 61.9 54.2 81.2



#33
1,2-Dichloroethane-d4
Concen: 49.872 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084639.D
Acq: 01 Nov 2024 15:30

Tgt Ion: 65 Resp: 122982
Ion Ratio Lower Upper
65 100
67 51.9 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN084639.D

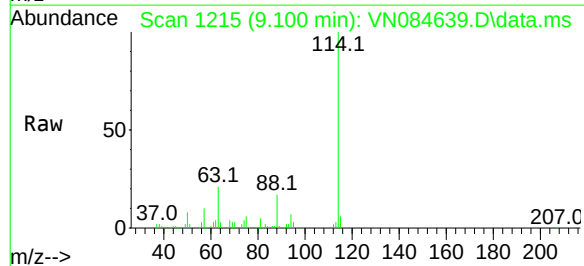
Acq: 01 Nov 2024 15:30

Instrument :

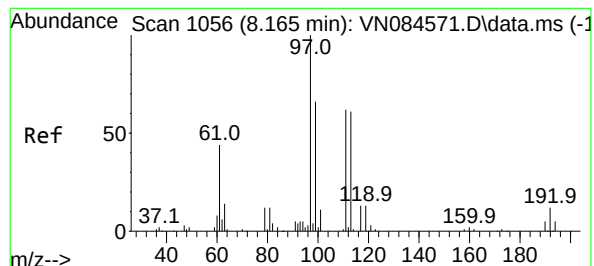
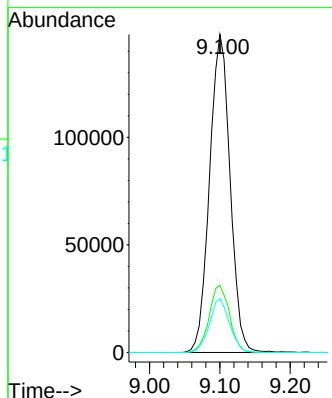
MSVOA_N

ClientSampleId :

BP-VPB-190-EB-20241030



Tgt Ion:	114	Resp:	299750
Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	43.8
88	16.9	0.0	31.6



#35

Dibromofluoromethane

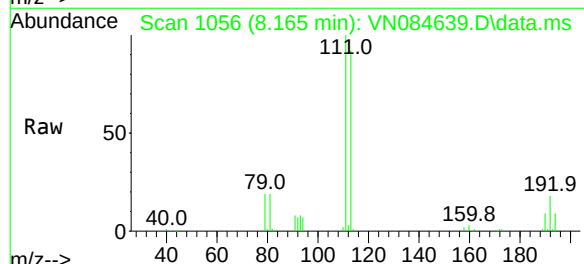
Concen: 49.552 ug/l

RT: 8.165 min Scan# 1056

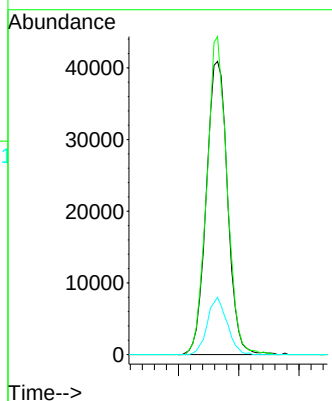
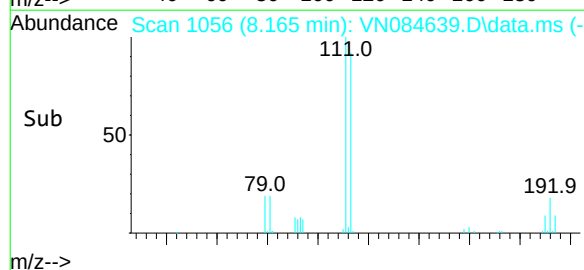
Delta R.T. -0.000 min

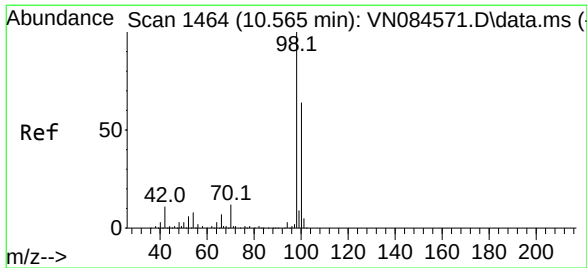
Lab File: VN084639.D

Acq: 01 Nov 2024 15:30



Tgt Ion:	113	Resp:	100539
Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.3	124.9
192	18.1	13.5	20.3





#50

Toluene-d8

Concen: 47.875 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084639.D

Acq: 01 Nov 2024 15:30

Instrument :

MSVOA_N

ClientSampleId :

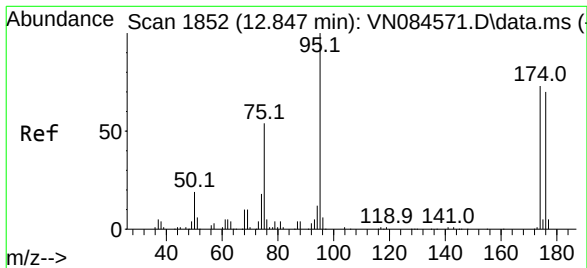
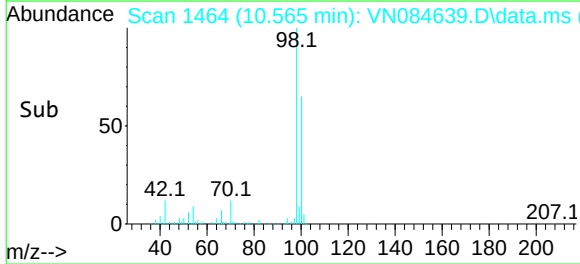
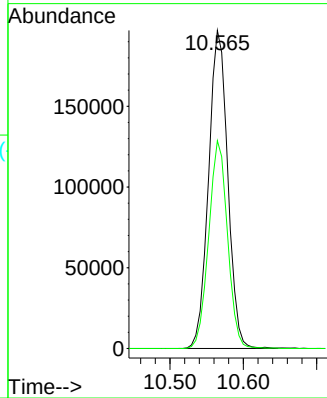
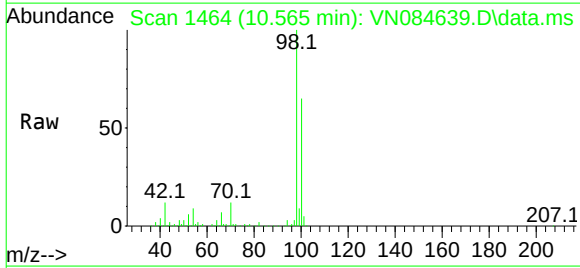
BP-VPB-190-EB-20241030

Tgt Ion: 98 Resp: 357815

Ion Ratio Lower Upper

98 100

100 64.1 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 45.713 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN084639.D

Acq: 01 Nov 2024 15:30

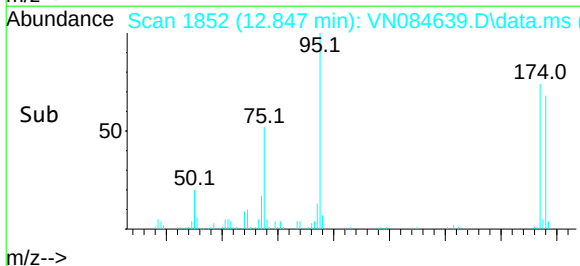
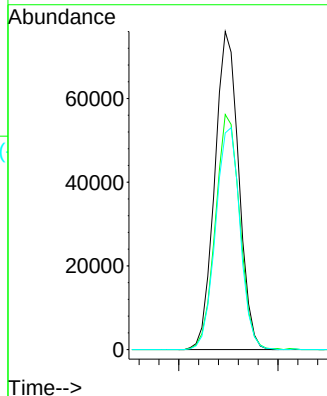
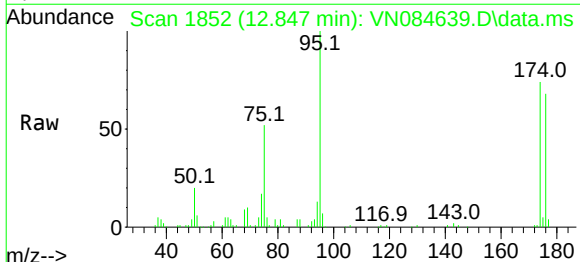
Tgt Ion: 95 Resp: 127690

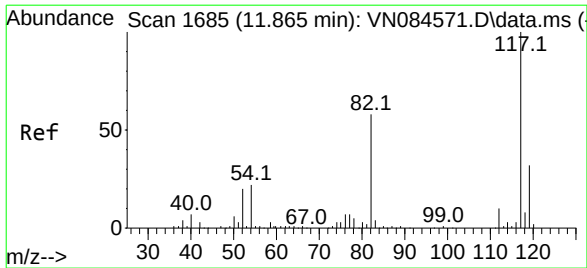
Ion Ratio Lower Upper

95 100

174 75.1 0.0 145.2

176 71.2 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 16

Delta R.T. -0.000 min

Lab File: VN084639.D

Acq: 01 Nov 2024 15:30

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190-EB-20241030

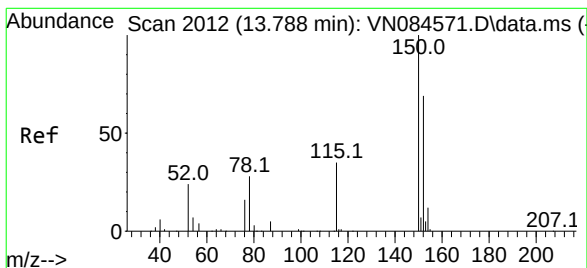
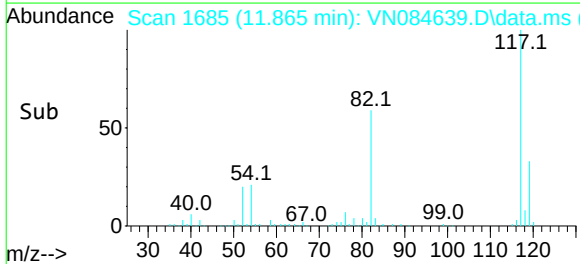
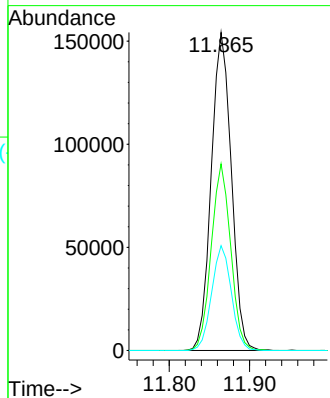
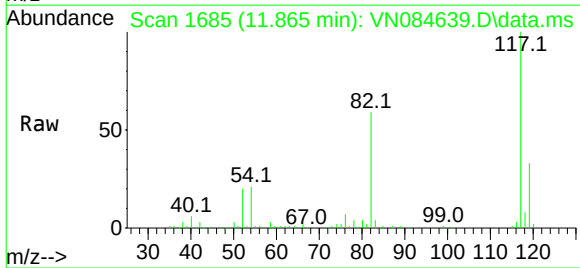
Tgt Ion:117 Resp: 267728

Ion Ratio Lower Upper

117 100

82 58.7 47.2 70.8

119 33.0 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.006 min

Lab File: VN084639.D

Acq: 01 Nov 2024 15:30

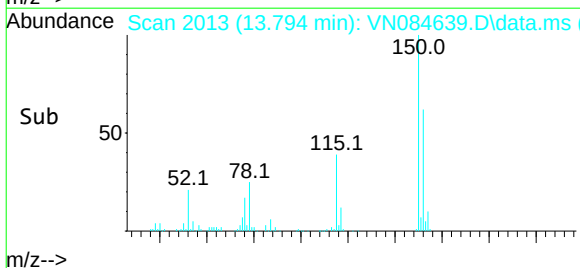
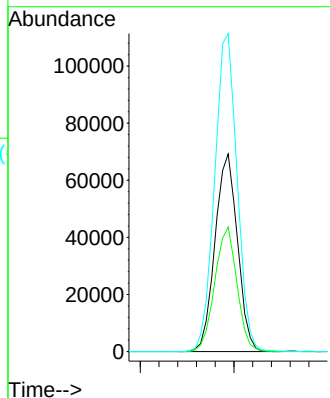
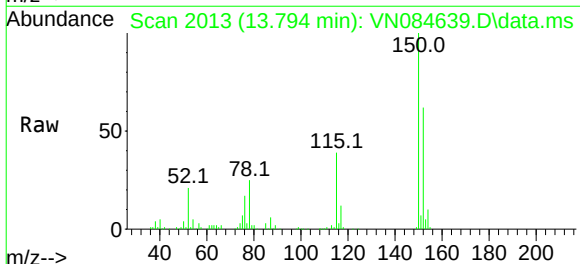
Tgt Ion:152 Resp: 115295

Ion Ratio Lower Upper

152 100

115 62.1 31.3 93.9

150 161.1 0.0 349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
 Data File : VN084639.D
 Acq On : 01 Nov 2024 15:30
 Operator : JC\MD
 Sample : P4665-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-190-EB-20241030

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\82N103024W.M
 Title : SW846 8260

Signal : TIC: VN084639.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.300	49	59	68	rVB3	14909	32854	3.48%	0.638%
2	2.824	135	148	149	rBV4	7450	18834	2.00%	0.366%
3	2.900	150	161	162	rBV7	8367	20669	2.19%	0.402%
4	4.436	413	422	435	rBV	22529	66715	7.07%	1.296%
5	8.165	1047	1056	1060	rBV	139956	320825	34.02%	6.232%
6	8.224	1060	1066	1080	rVB	237785	540236	57.29%	10.494%
7	8.577	1117	1126	1137	rBV	147919	335888	35.62%	6.525%
8	9.100	1205	1215	1226	rBV	354293	712664	75.57%	13.844%
9	10.565	1454	1464	1474	rBV	522667	943012	100.00%	18.319%
10	11.865	1676	1685	1696	rBV	479703	823694	87.35%	16.001%
11	12.847	1845	1852	1862	rVB	361883	614134	65.12%	11.930%
12	13.794	2005	2013	2020	rBV	425850	718279	76.17%	13.953%

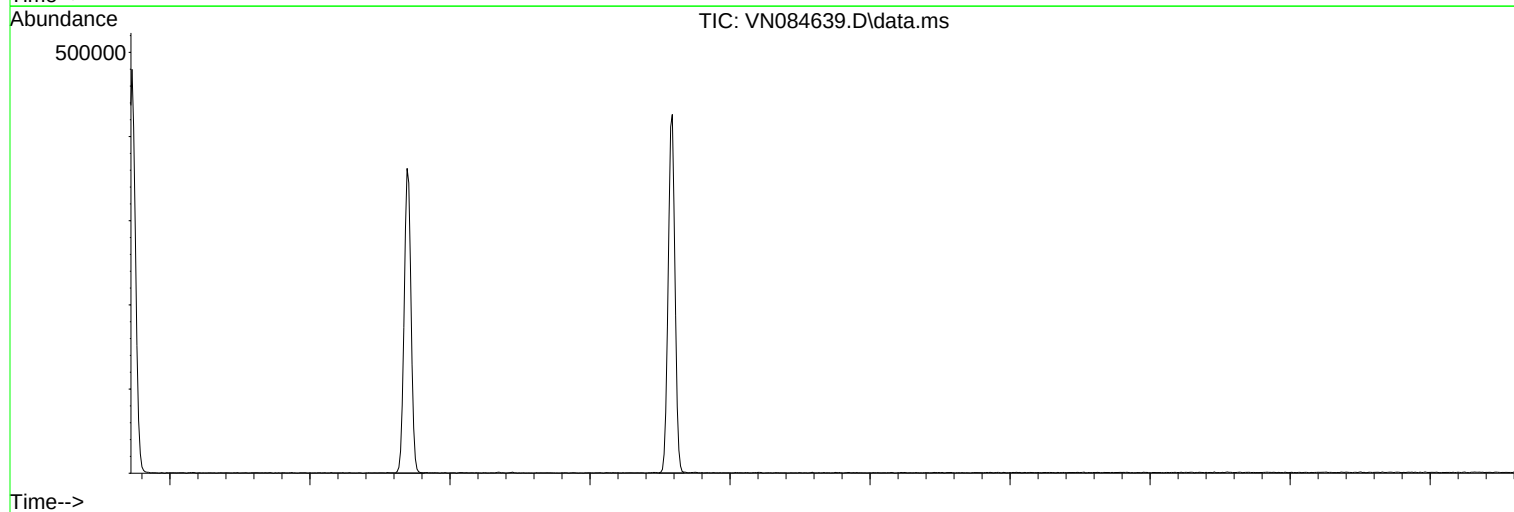
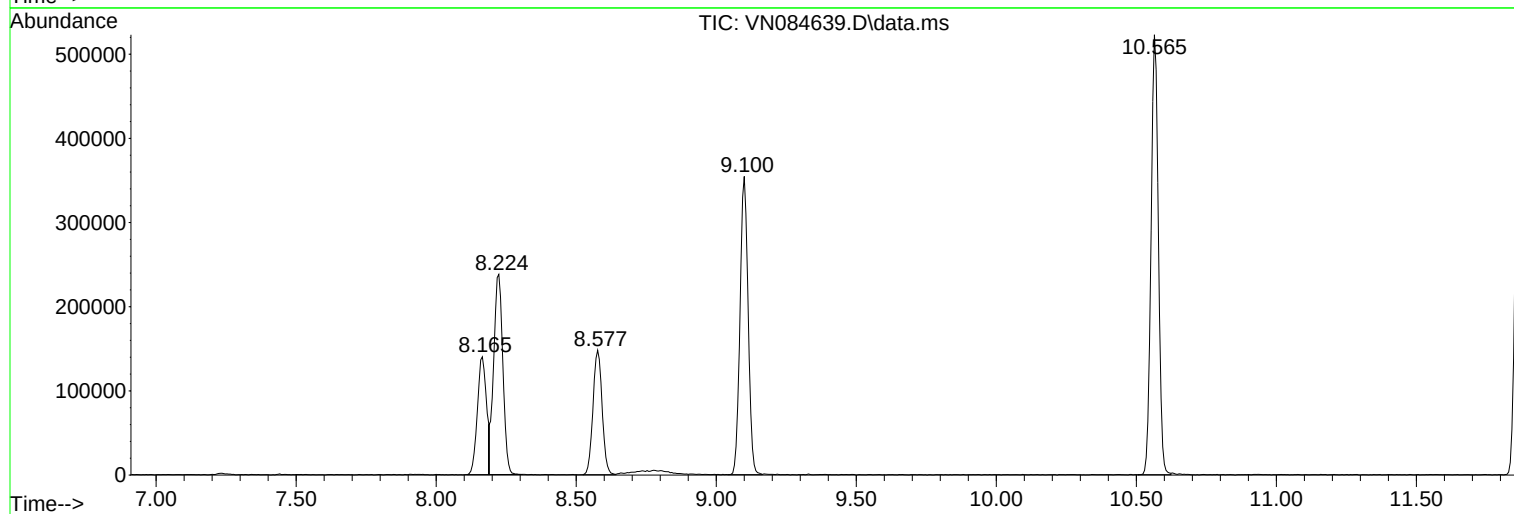
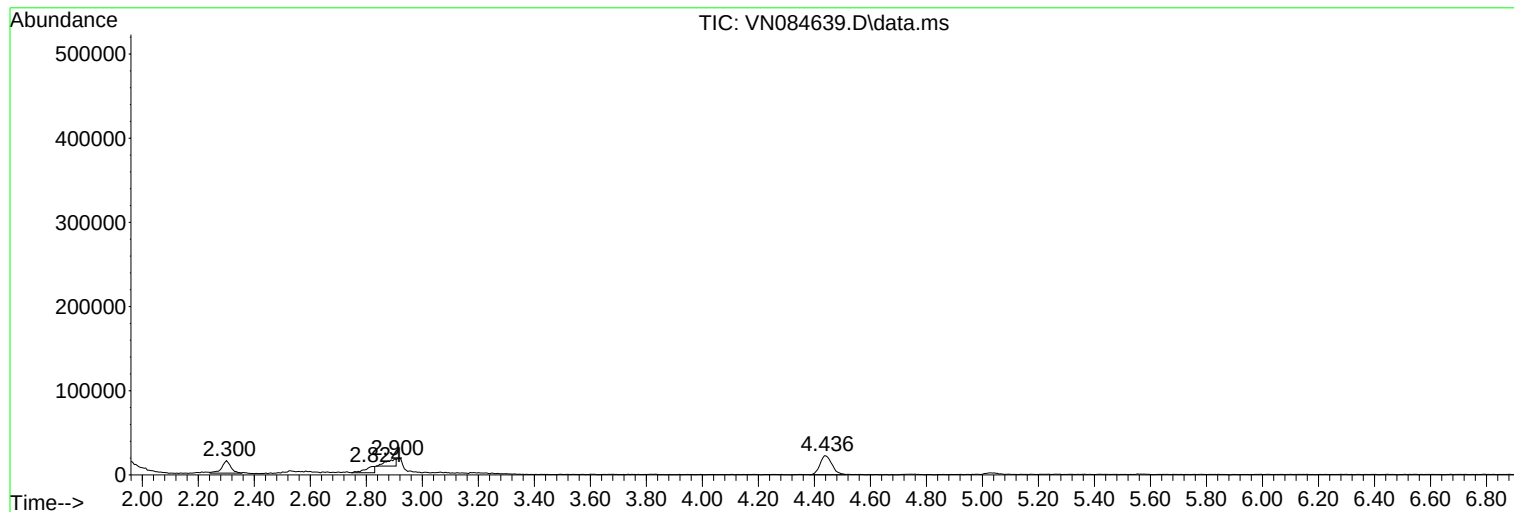
Sum of corrected areas: 5147804

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084639.D
Acq On : 01 Nov 2024 15:30
Operator : JC\MD
Sample : P4665-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-EB-20241030

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084639.D
Acq On : 01 Nov 2024 15:30
Operator : JC\MD
Sample : P4665-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-EB-20241030

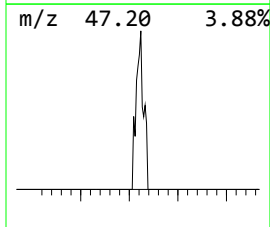
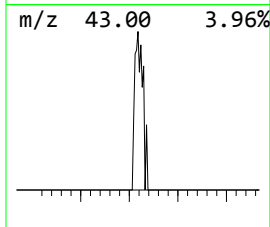
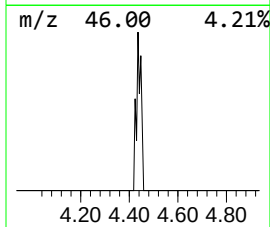
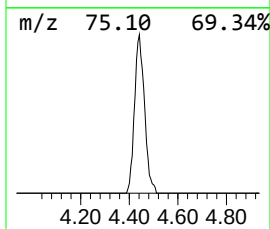
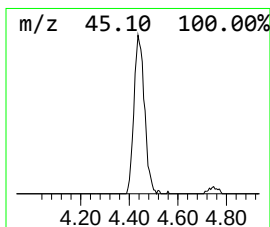
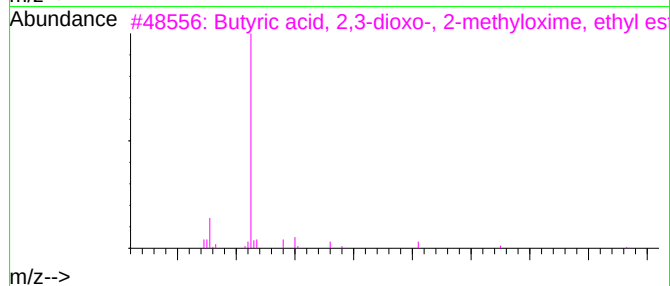
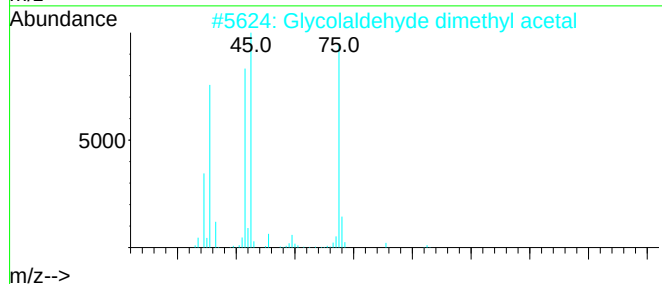
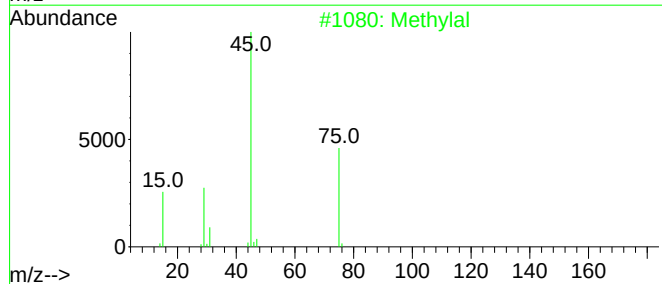
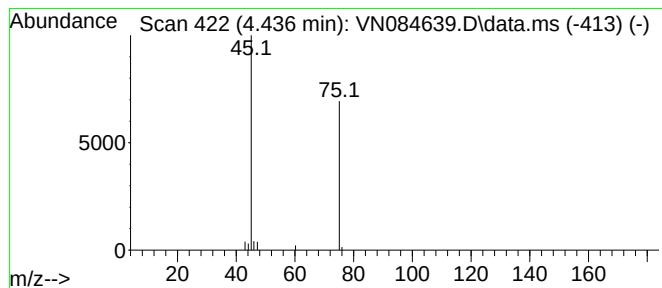
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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

Peak Number 1 Methylal Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.436	6.17 ug/l	66715	Pentafluorobenzene	8.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methylal	76	C3H8O2	000109-87-5	74
2	Glycolaldehyde dimethyl acetal	106	C4H10O3	030934-97-5	9
3	Butyric acid, 2,3-dioxo-, 2-meth...	173	C7H11NO4	060846-14-2	9
4	(S)-(+)-1,2-Propanediol	76	C3H8O2	004254-15-3	5
5	Ethanol, 2-methoxy-	76	C3H8O2	000109-86-4	5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084639.D
Acq On : 01 Nov 2024 15:30
Operator : JC\MD
Sample : P4665-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-EB-20241030

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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
Methylal	4.436	6.2	ug/l	66715	1	8.218	540236	50.0

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	10/29/24		
Project:	CTO WE13			Date Received:	10/31/24		
Client Sample ID:	BP-VPB-190-GW-538-540			SDG No.:	P4665		
Lab Sample ID:	P4665-04			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
VN084640.D	1		11/01/24 15:54	VN110124

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:	10/29/24
Project:	CTO WE13	Date Received:	10/31/24
Client Sample ID:	BP-VPB-190-GW-538-540	SDG No.:	P4665
Lab Sample ID:	P4665-04	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
VN084640.D	1		11/01/24 15:54	VN110124

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	51.4		81 - 118		103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	48.4		89 - 112		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.7		85 - 114		95%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	175000	8.224				
540-36-3	1,4-Difluorobenzene	307000	9.1				
3114-55-4	Chlorobenzene-d5	281000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	125000	13.794				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	10/29/24	
Project:	CTO WE13		Date Received:	10/31/24	
Client Sample ID:	BP-VPB-190-GW-538-540		SDG No.:	P4665	
Lab Sample ID:	P4665-04		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
VN084640.D	1		11/01/24 15:54	VN110124

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\VN110124\
Data File : VN084640.D
Acq On : 01 Nov 2024 15:54
Operator : JC\MD
Sample : P4665-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-538-540

Quant Time: Nov 04 04:29:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	175313	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	307267	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	280834	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	124509	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	130051	51.361	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	102.720%	
35) Dibromofluoromethane	8.165	113	105740	50.841	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	101.680%	
50) Toluene-d8	10.565	98	371172	48.447	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	96.900%	
62) 4-Bromofluorobenzene	12.847	95	136575	47.698	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	95.400%	

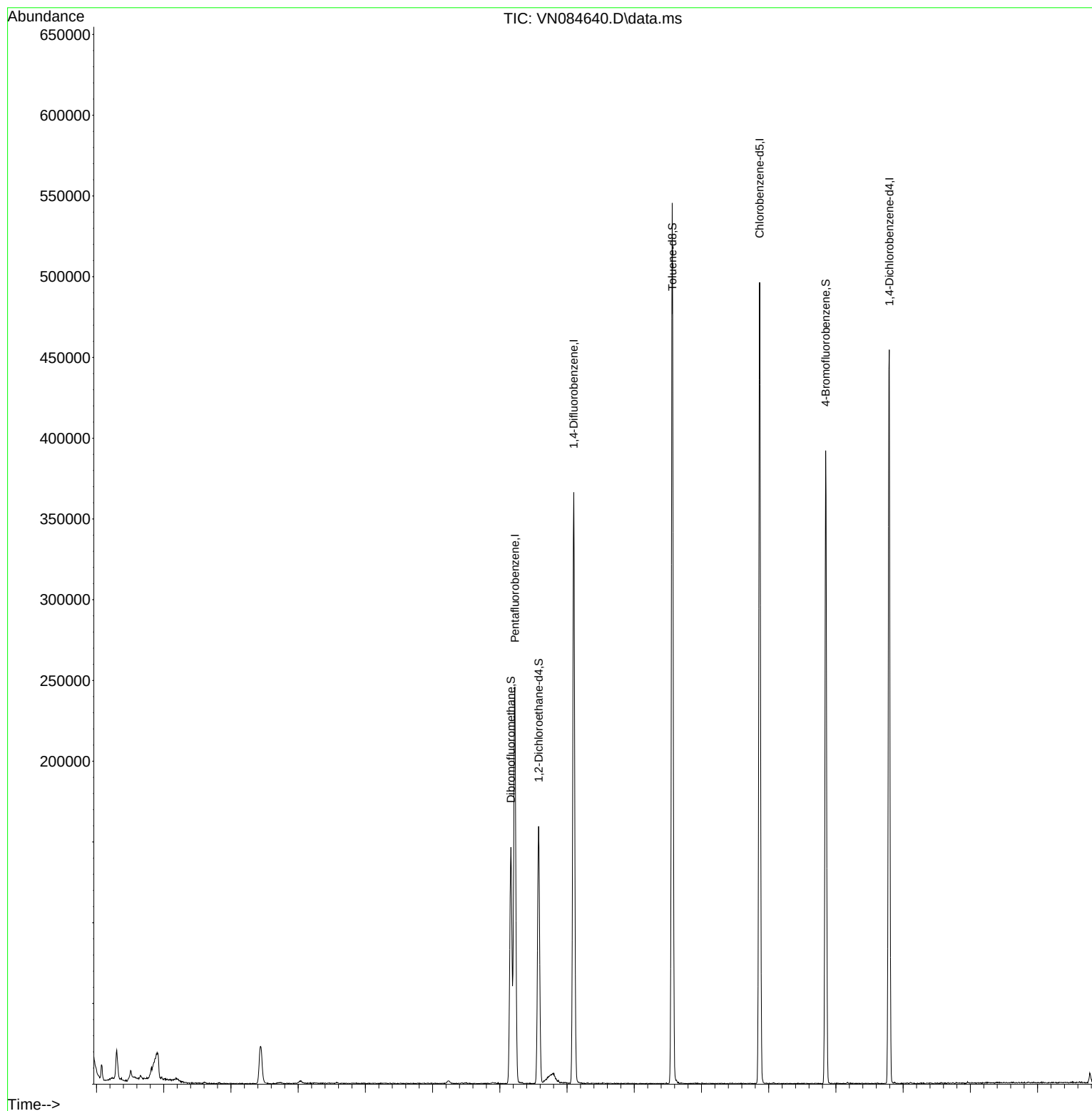
Target Compounds	Qvalue

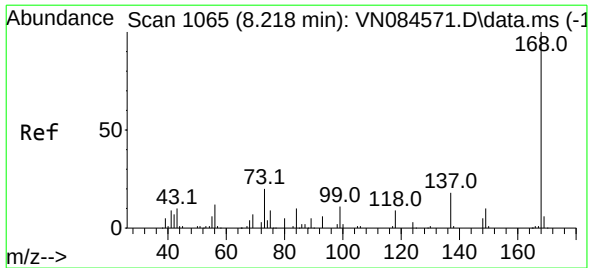
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084640.D
Acq On : 01 Nov 2024 15:54
Operator : JC\MD
Sample : P4665-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-538-540

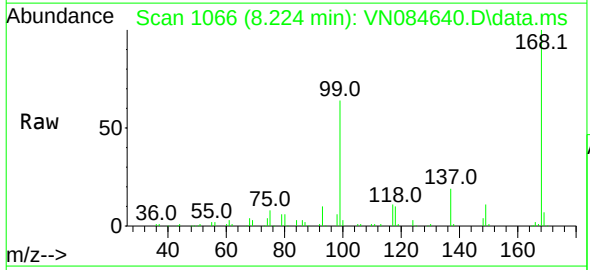
Quant Time: Nov 04 04:29:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



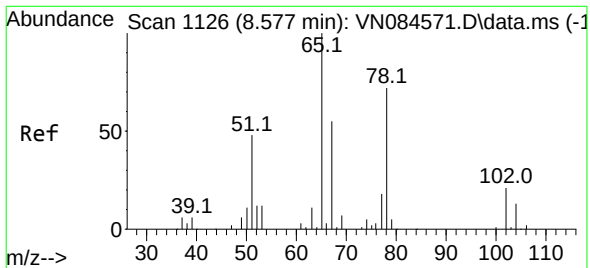
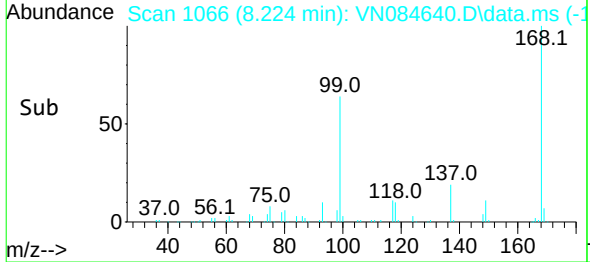
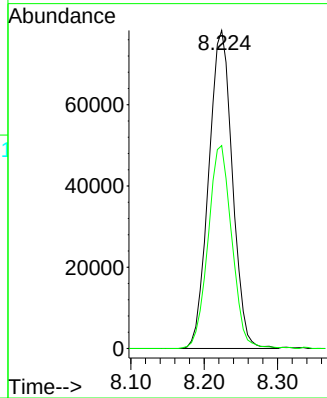


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084640.D
Acq: 01 Nov 2024 15:54

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-538-540

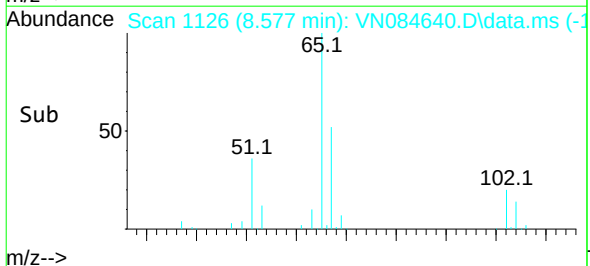
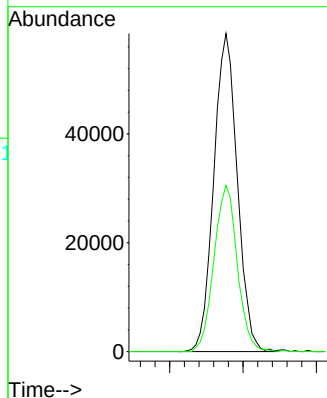
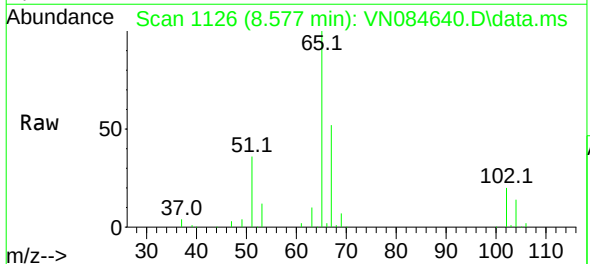


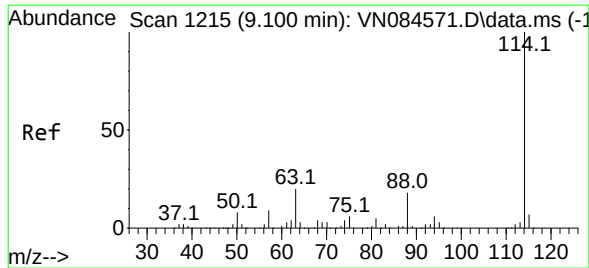
Tgt Ion:168 Resp: 175313
Ion Ratio Lower Upper
168 100
99 63.8 54.2 81.2



#33
1,2-Dichloroethane-d4
Concen: 51.361 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084640.D
Acq: 01 Nov 2024 15:54

Tgt Ion: 65 Resp: 130051
Ion Ratio Lower Upper
65 100
67 51.7 0.0 102.0

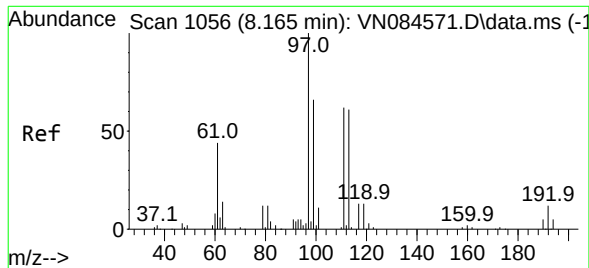
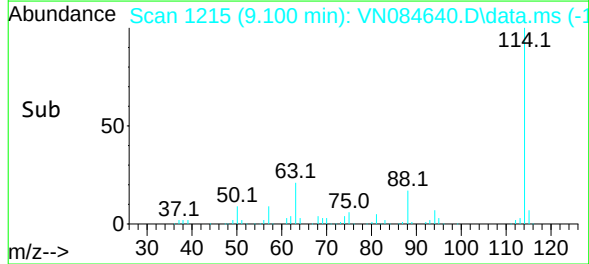
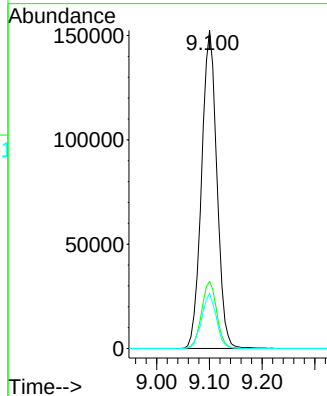
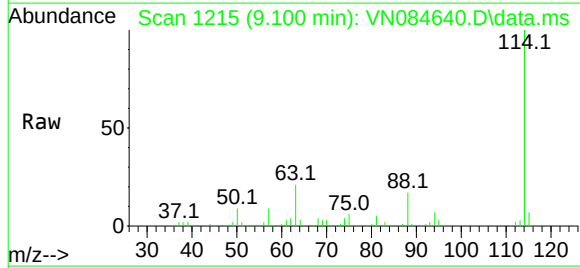




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084640.D
Acq: 01 Nov 2024 15:54

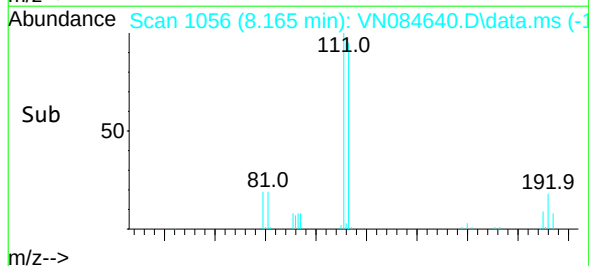
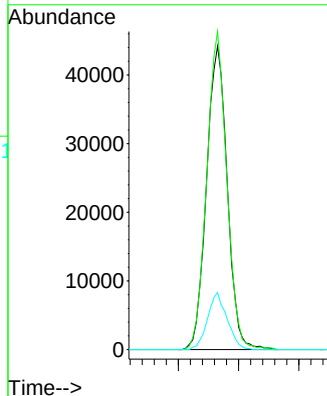
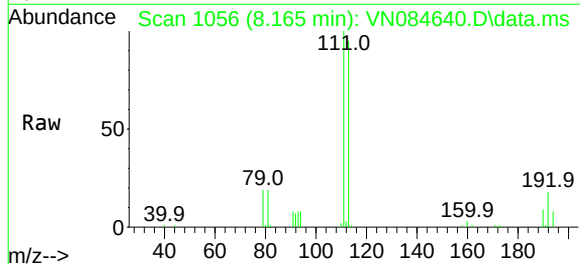
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-538-540

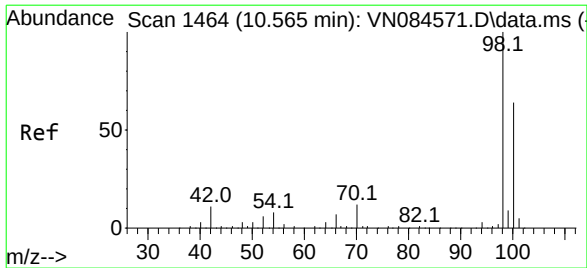
Tgt Ion:	114	Resp:	307267
Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	43.8
88	17.3	0.0	31.6



#35
Dibromofluoromethane
Concen: 50.841 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN084640.D
Acq: 01 Nov 2024 15:54

Tgt Ion:	113	Resp:	105740
Ion	Ratio	Lower	Upper
113	100		
111	101.4	83.3	124.9
192	17.7	13.5	20.3





#50

Toluene-d8

Concen: 48.447 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084640.D

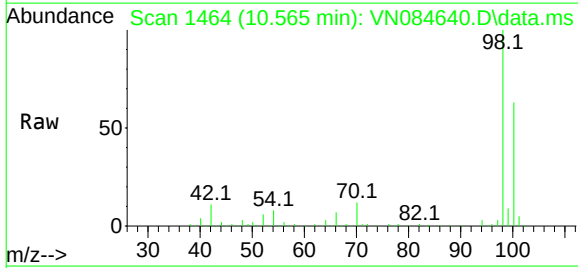
Acq: 01 Nov 2024 15:54

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190-GW-538-540

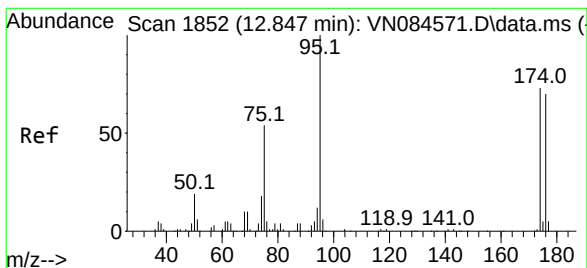
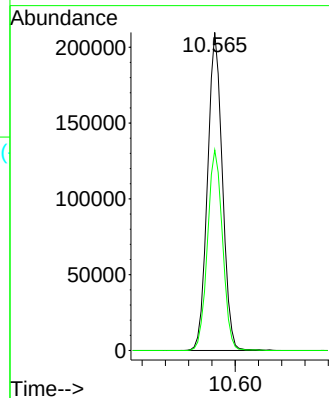
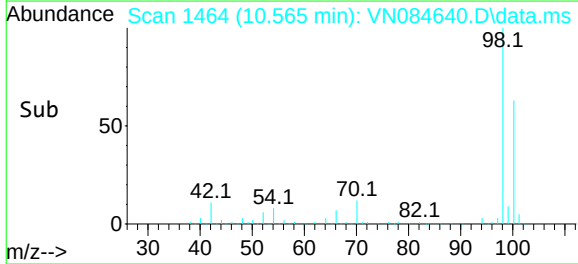


Tgt Ion: 98 Resp: 371172

Ion Ratio Lower Upper

98 100

100 63.9 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 47.698 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN084640.D

Acq: 01 Nov 2024 15:54

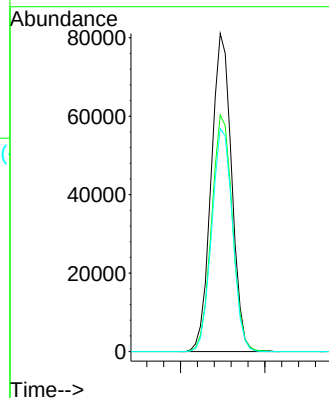
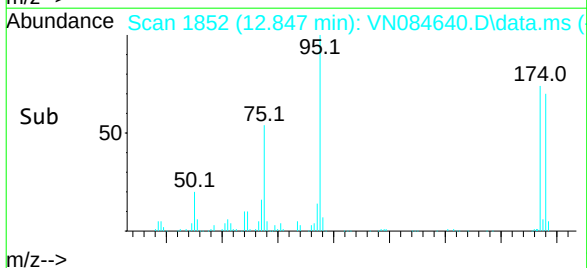
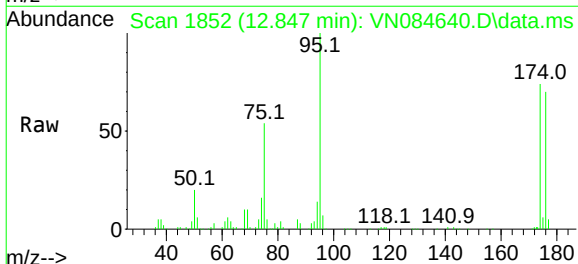
Tgt Ion: 95 Resp: 136575

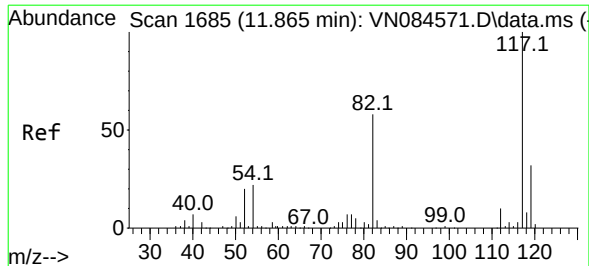
Ion Ratio Lower Upper

95 100

174 75.4 0.0 145.2

176 71.2 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 16

Delta R.T. -0.000 min

Lab File: VN084640.D

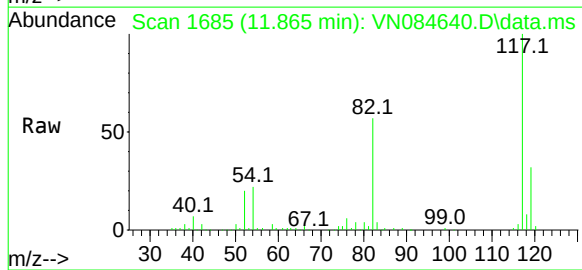
Acq: 01 Nov 2024 15:54

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190-GW-538-540



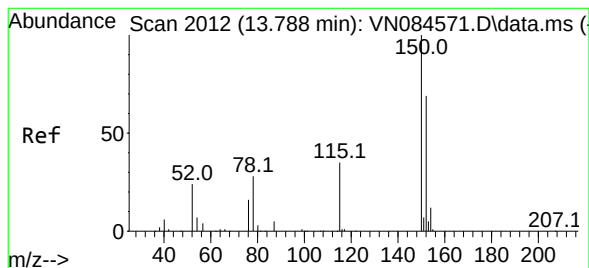
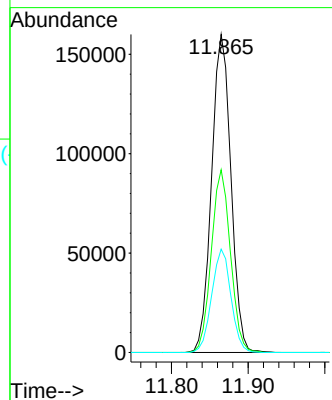
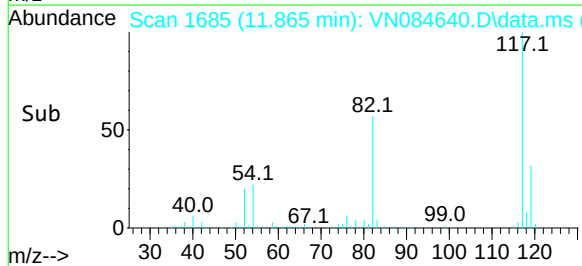
Tgt Ion:117 Resp: 280834

Ion Ratio Lower Upper

117 100

82 57.4 47.2 70.8

119 32.5 25.4 38.0



#72

1,4-Dichlorobenzene-d4

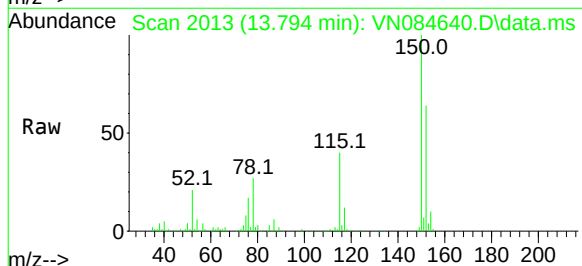
Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.006 min

Lab File: VN084640.D

Acq: 01 Nov 2024 15:54



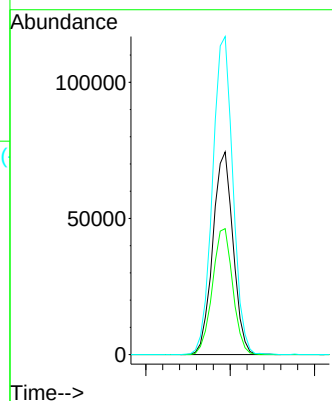
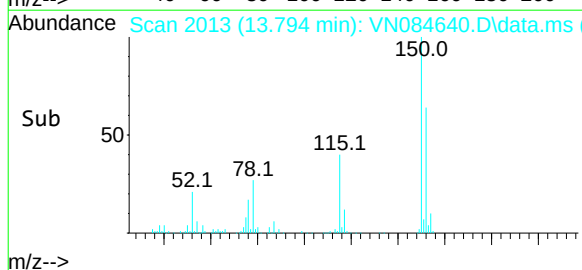
Tgt Ion:152 Resp: 124509

Ion Ratio Lower Upper

152 100

115 62.2 31.3 93.9

150 157.2 0.0 349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
 Data File : VN084640.D
 Acq On : 01 Nov 2024 15:54
 Operator : JC\MD
 Sample : P4665-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-190-GW-538-540

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\82N103024W.M
 Title : SW846 8260

Signal : TIC: VN084640.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.077	16	21	27	rVB4	9657	15992	1.64%	0.296%
2	2.301	52	59	66	rVB2	17862	35483	3.64%	0.657%
3	2.507	85	94	100	rBV4	6828	17711	1.82%	0.328%
4	2.818	139	147	148	rBV3	6860	10641	1.09%	0.197%
5	2.871	148	156	157	rBV6	7122	14448	1.48%	0.267%
6	4.442	411	423	440	rVB2	23259	74102	7.61%	1.371%
7	8.165	1045	1056	1060	rBV	146353	335905	34.48%	6.215%
8	8.224	1060	1066	1076	rVB	245000	549163	56.37%	10.162%
9	8.577	1116	1126	1136	rBV	159430	354155	36.35%	6.553%
10	9.100	1206	1215	1226	rBV	366069	735441	75.49%	13.608%
11	10.565	1455	1464	1473	rBV	545135	974214	100.00%	18.026%
12	11.865	1676	1685	1699	rBV	496073	865585	88.85%	16.016%
13	12.847	1844	1852	1860	rBV	392040	654493	67.18%	12.110%
14	13.794	2005	2013	2023	rVB	454111	767016	78.73%	14.193%

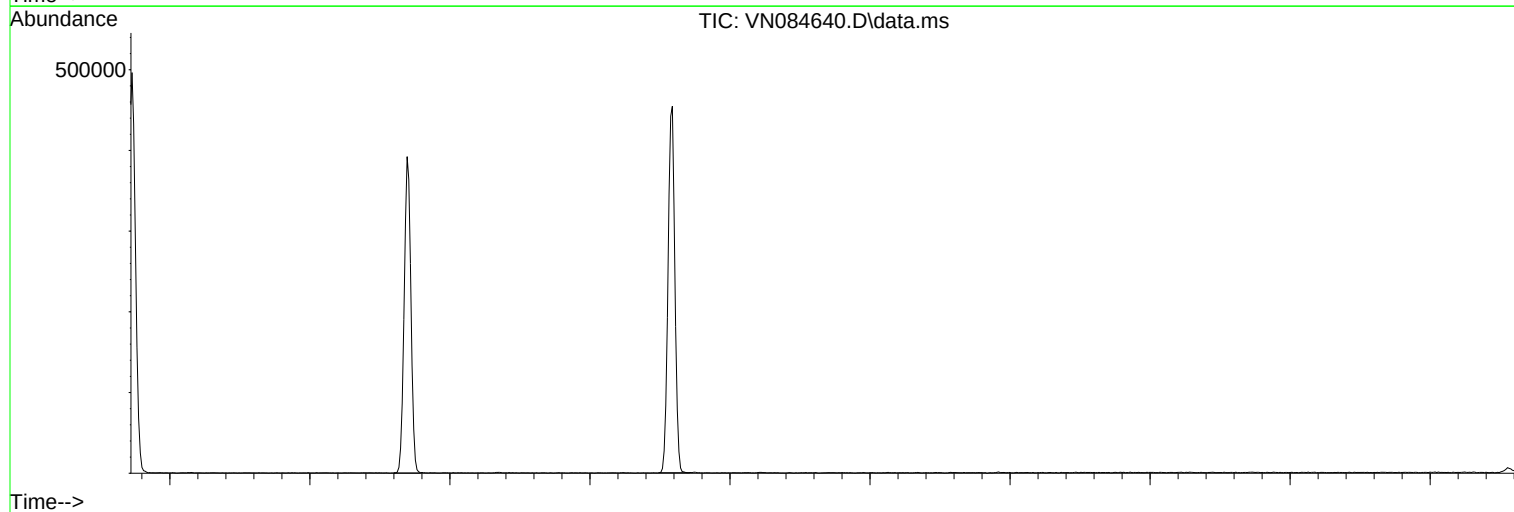
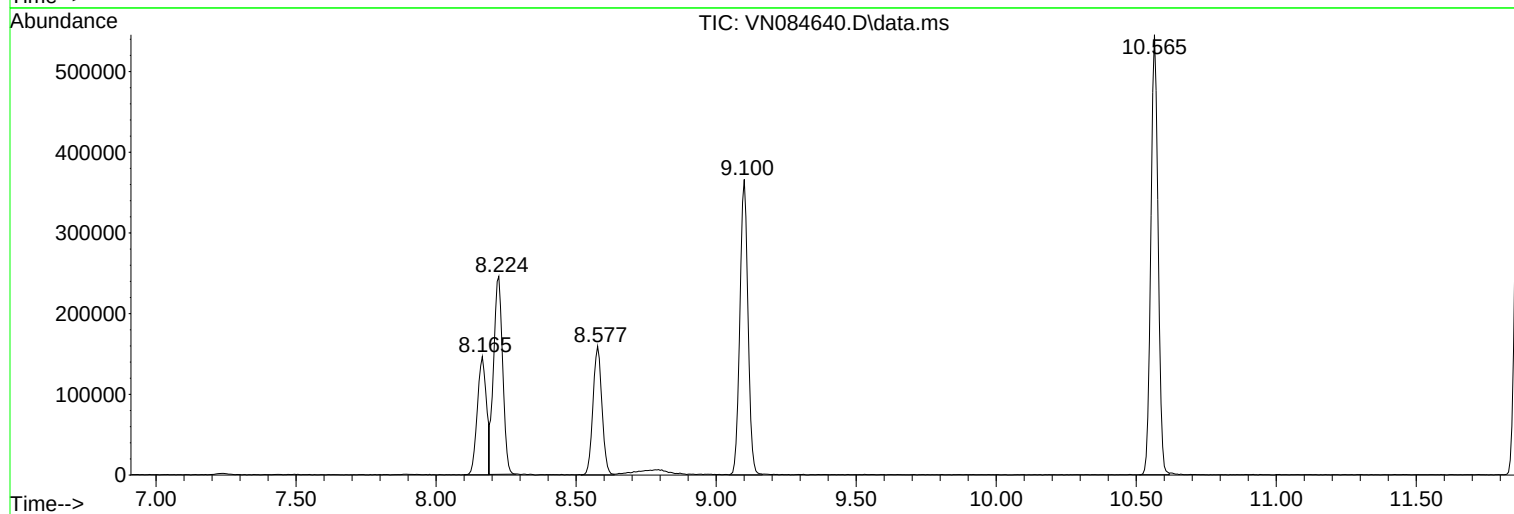
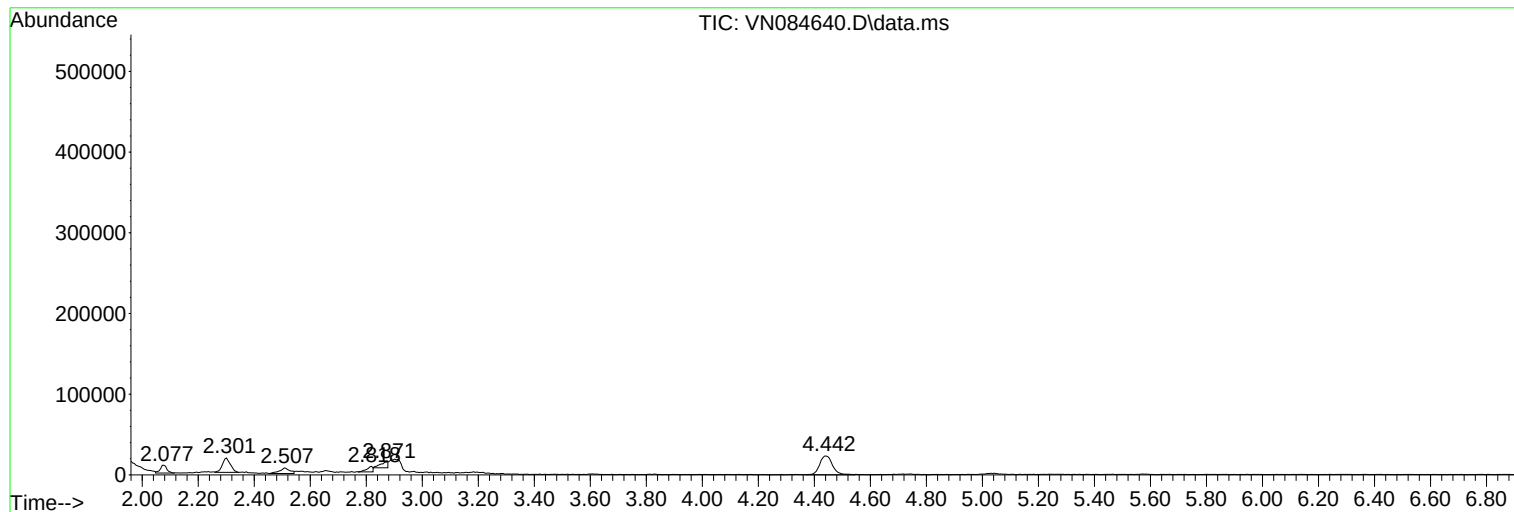
Sum of corrected areas: 5404349

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084640.D
Acq On : 01 Nov 2024 15:54
Operator : JC\MD
Sample : P4665-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-538-540

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084640.D
Acq On : 01 Nov 2024 15:54
Operator : JC\MD
Sample : P4665-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-538-540

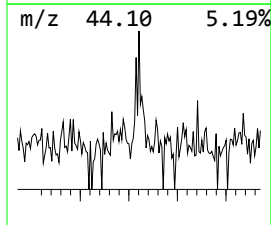
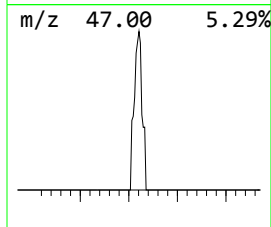
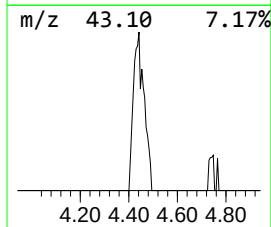
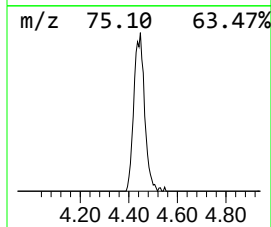
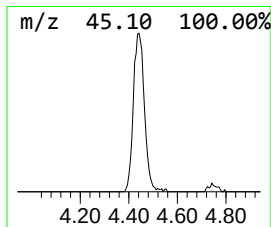
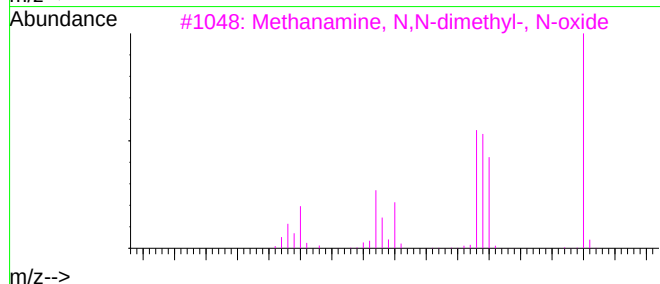
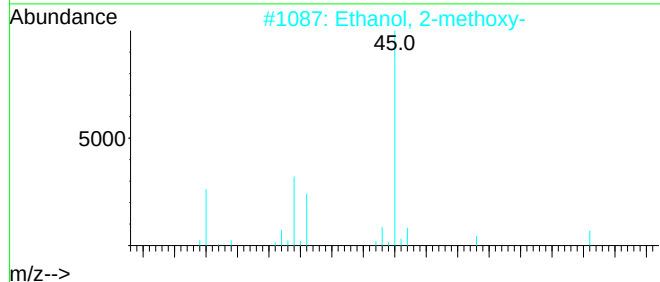
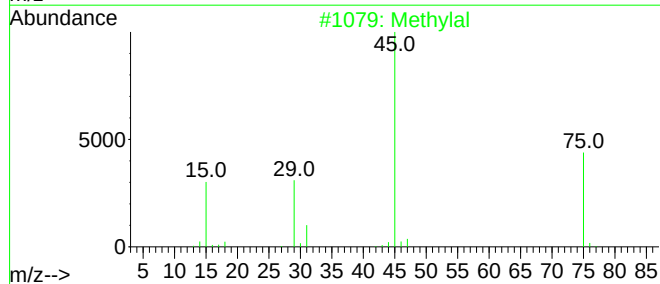
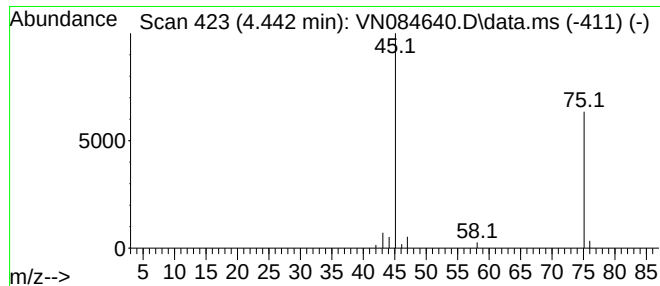
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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

Peak Number 1 Methylal Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.442	6.75 ug/l	74102	Pentafluorobenzene	8.224

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methylal	76	C3H8O2	000109-87-5	90
2	Ethanol, 2-methoxy-	76	C3H8O2	000109-86-4	9
3	Methanamine, N,N-dimethyl-, N-oxide	75	C3H9NO	001184-78-7	9
4	1,2,4-Butanetriol	106	C4H10O3	003068-00-6	9
5	Formamide	45	CH3NO	000075-12-7	5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084640.D
Acq On : 01 Nov 2024 15:54
Operator : JC\MD
Sample : P4665-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-538-540

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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
Methylal	4.442	6.8	ug/l	74102	1	8.224	549163	50.0

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	10/29/24		
Project:	CTO WE13			Date Received:	10/31/24		
Client Sample ID:	BP-VPB-190-GW-558-560			SDG No.:	P4665		
Lab Sample ID:	P4665-05			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
VN084636.D	1		11/01/24 14:17	VN110124

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	6.80		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	2.60	J	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:	10/29/24
Project:	CTO WE13	Date Received:	10/31/24
Client Sample ID:	BP-VPB-190-GW-558-560	SDG No.:	P4665
Lab Sample ID:	P4665-05	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
VN084636.D	1		11/01/24 14:17	VN110124

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	49.9		81 - 118		100%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	46.8		89 - 112		94%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.2		85 - 114		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	180000	8.224				
540-36-3	1,4-Difluorobenzene	311000	9.1				
3114-55-4	Chlorobenzene-d5	279000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	122000	13.788				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	10/29/24
Project:	CTO WE13			Date Received:	10/31/24
Client Sample ID:	BP-VPB-190-GW-558-560			SDG No.:	P4665
Lab Sample ID:	P4665-05			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
VN084636.D	1		11/01/24 14:17	VN110124

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\VN110124\
 Data File : VN084636.D
 Acq On : 01 Nov 2024 14:17
 Operator : JC\MD
 Sample : P4665-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-190-GW-558-560

Quant Time: Nov 04 04:27:32 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

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

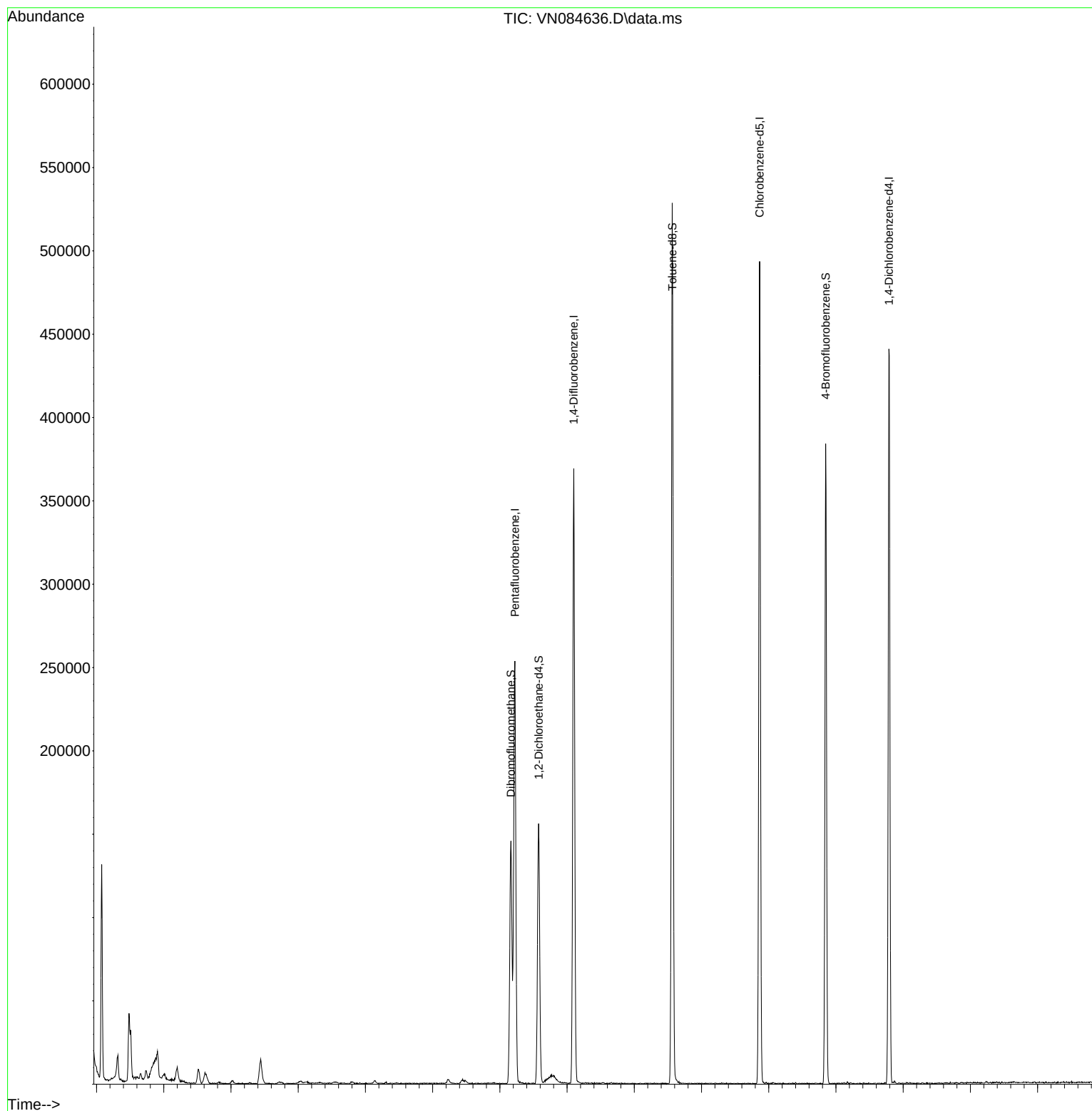
Internal Standards						
1) Pentafluorobenzene	8.224	168	179662	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	311395	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	278810	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	121785	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	129567	49.931	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.860%		
35) Dibromofluoromethane	8.165	113	105034	49.832	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.660%		
50) Toluene-d8	10.565	98	363147	46.771	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.540%		
62) 4-Bromofluorobenzene	12.847	95	133946	46.160	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	92.320%		
Target Compounds						
16) Acetone	4.430	43	7153	6.767	ug/l	97
25) 2-Butanone	7.488	43	3151	2.603	ug/l	91

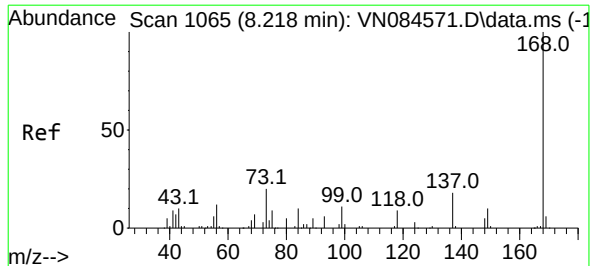
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084636.D
Acq On : 01 Nov 2024 14:17
Operator : JC\MD
Sample : P4665-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-558-560

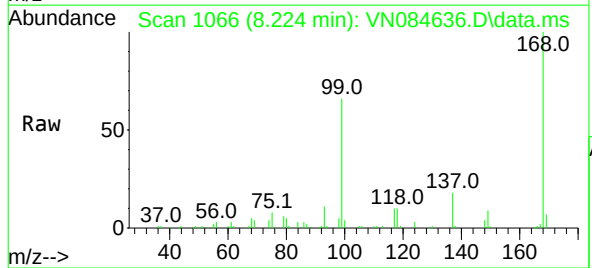
Quant Time: Nov 04 04:27:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



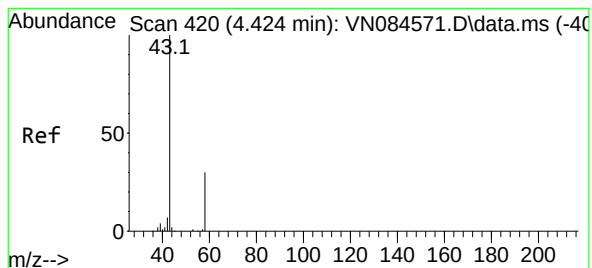
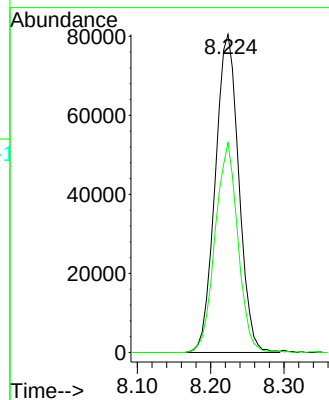
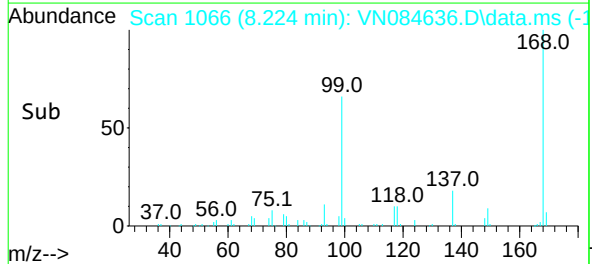


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084636.D
Acq: 01 Nov 2024 14:17

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-558-560

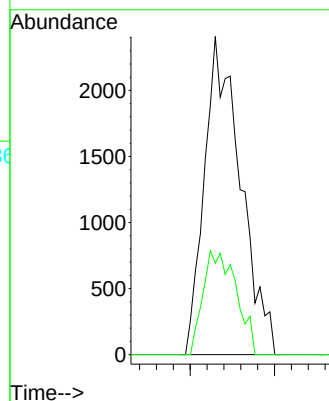
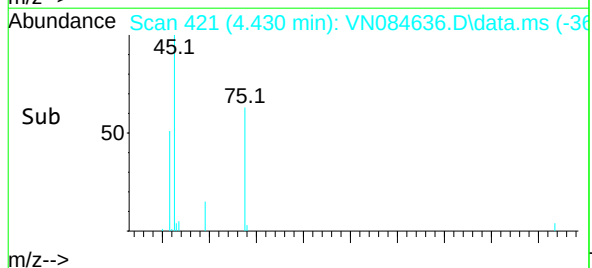
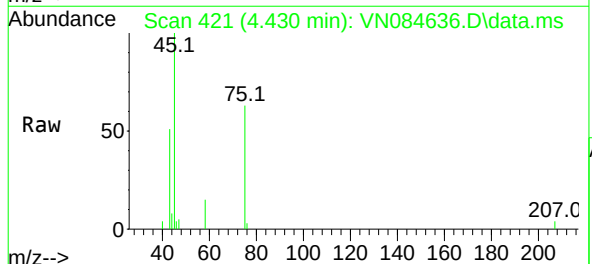


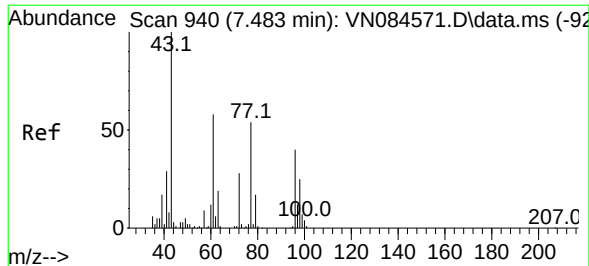
Tgt Ion: 168 Resp: 179662
Ion Ratio Lower Upper
168 100
99 65.9 54.2 81.2



#16
Acetone
Concen: 6.767 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN084636.D
Acq: 01 Nov 2024 14:17

Tgt Ion: 43 Resp: 7153
Ion Ratio Lower Upper
43 100
58 28.7 24.4 36.6





#25

2-Butanone

Concen: 2.603 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN084636.D

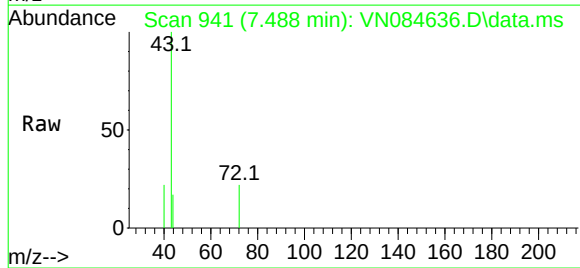
Acq: 01 Nov 2024 14:17

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190-GW-558-560

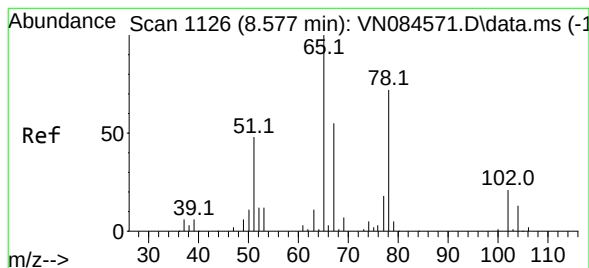
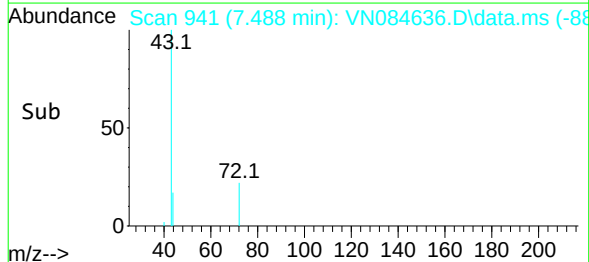
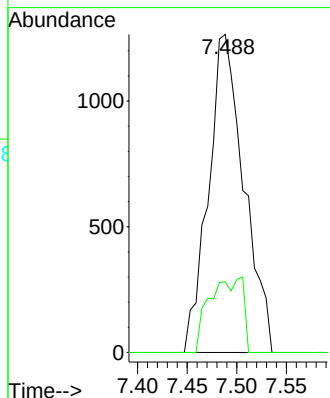


Tgt Ion: 43 Resp: 3151

Ion Ratio Lower Upper

43 100

72 22.2 21.4 32.2



#33

1,2-Dichloroethane-d4

Concen: 49.931 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN084636.D

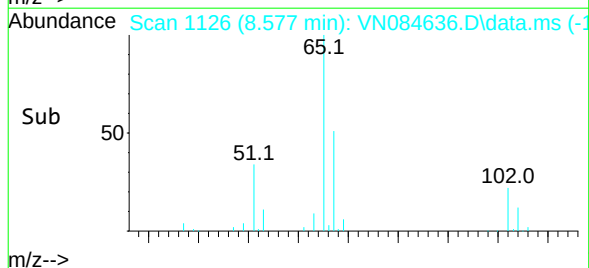
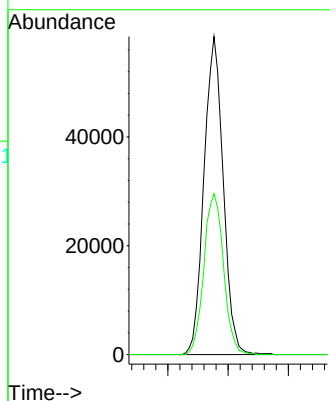
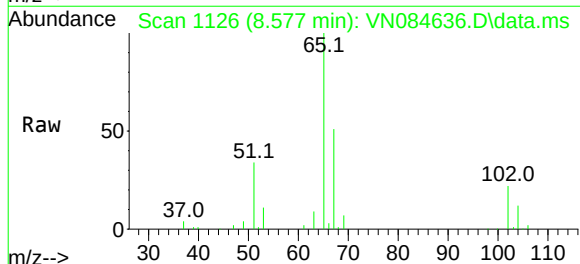
Acq: 01 Nov 2024 14:17

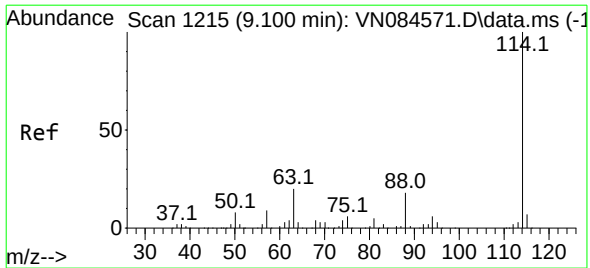
Tgt Ion: 65 Resp: 129567

Ion Ratio Lower Upper

65 100

67 51.7 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN084636.D

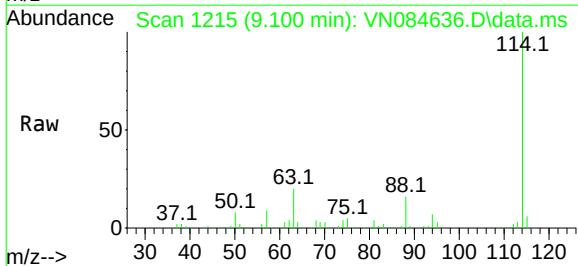
Acq: 01 Nov 2024 14:17

Instrument :

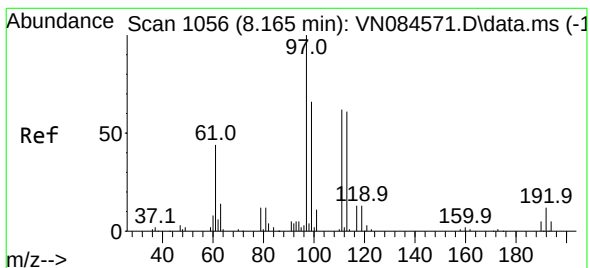
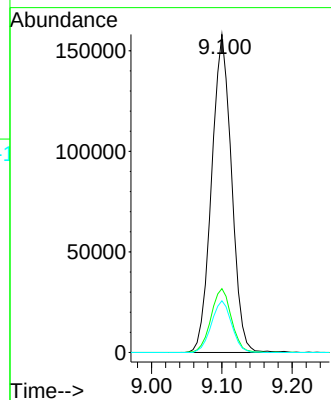
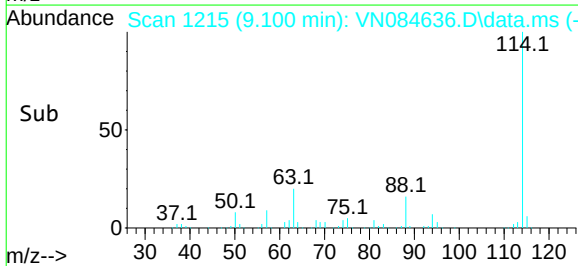
MSVOA_N

ClientSampleId :

BP-VPB-190-GW-558-560



Tgt Ion:	114	Resp:	311395
Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	43.8
88	16.3	0.0	31.6



#35

Dibromofluoromethane

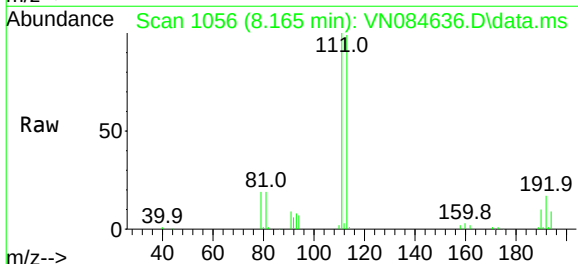
Concen: 49.832 ug/l

RT: 8.165 min Scan# 1056

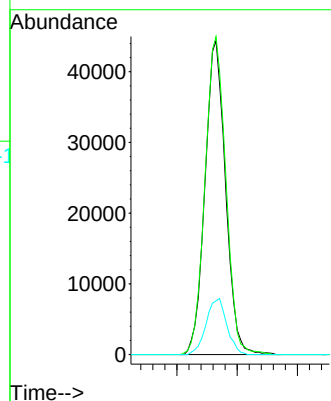
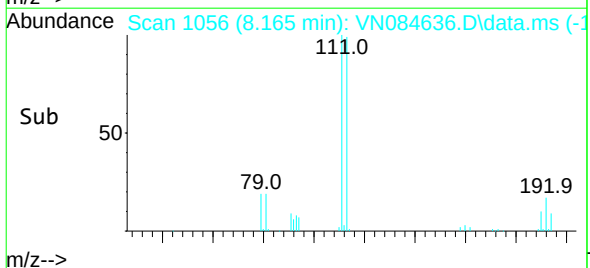
Delta R.T. -0.000 min

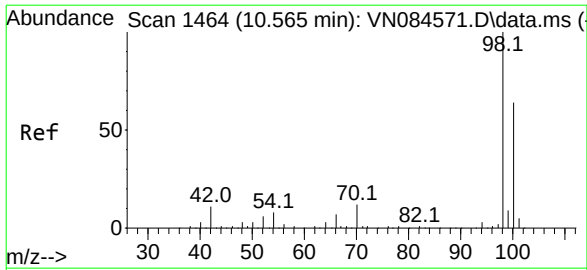
Lab File: VN084636.D

Acq: 01 Nov 2024 14:17



Tgt Ion:	113	Resp:	105034
Ion	Ratio	Lower	Upper
113	100		
111	102.9	83.3	124.9
192	18.0	13.5	20.3





#50

Toluene-d8

Concen: 46.771 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084636.D

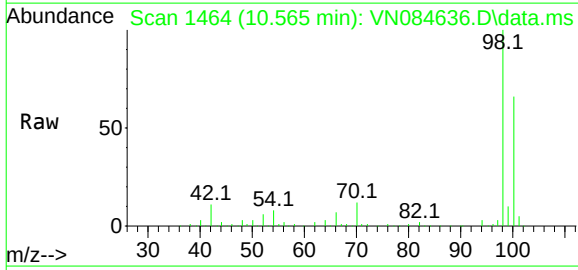
Acq: 01 Nov 2024 14:17

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190-GW-558-560

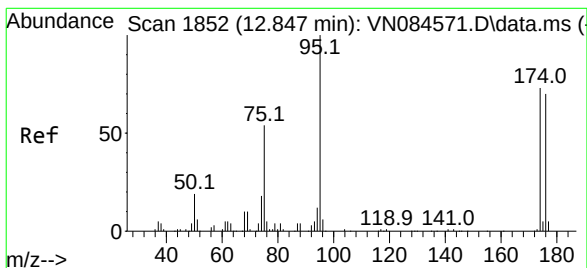
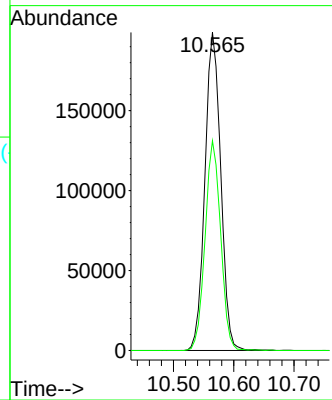
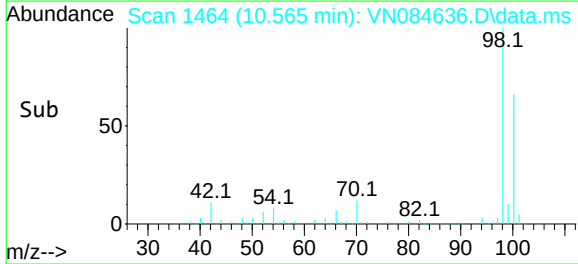


Tgt Ion: 98 Resp: 363147

Ion Ratio Lower Upper

98 100

100 64.8 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 46.160 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN084636.D

Acq: 01 Nov 2024 14:17

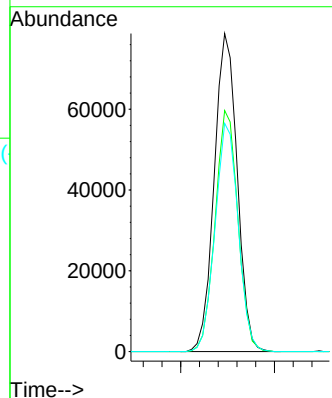
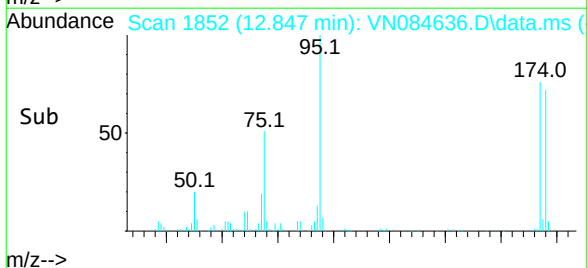
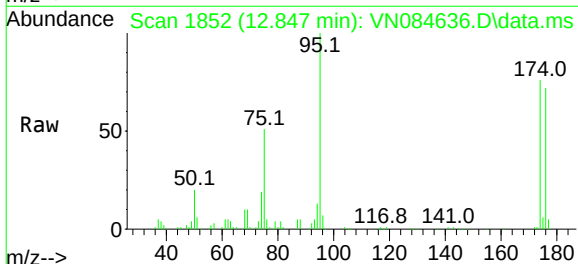
Tgt Ion: 95 Resp: 133946

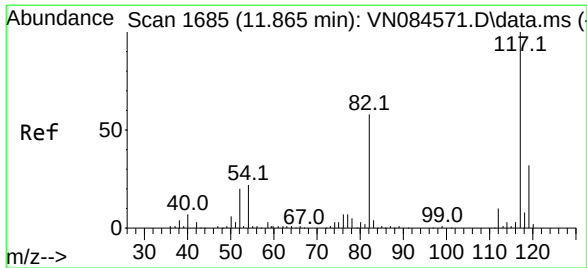
Ion Ratio Lower Upper

95 100

174 75.1 0.0 145.2

176 72.3 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN084636.D

Acq: 01 Nov 2024 14:17

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190-GW-558-560

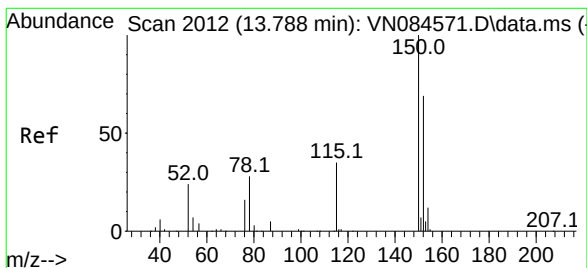
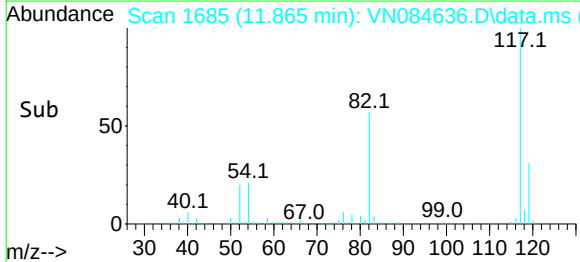
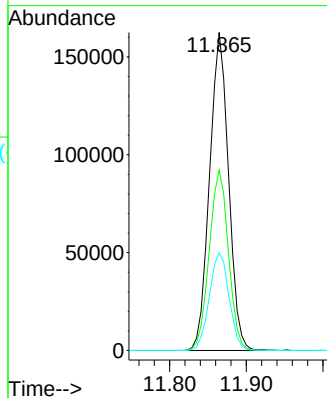
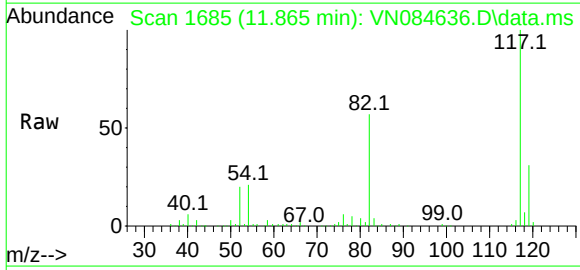
Tgt Ion:117 Resp: 278810

Ion Ratio Lower Upper

117 100

82 56.6 47.2 70.8

119 30.7 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN084636.D

Acq: 01 Nov 2024 14:17

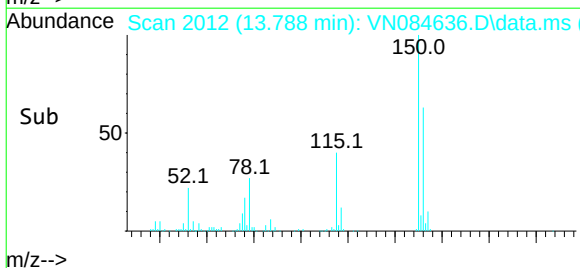
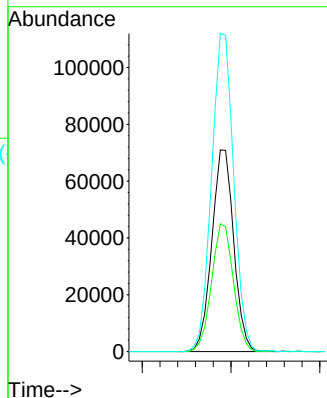
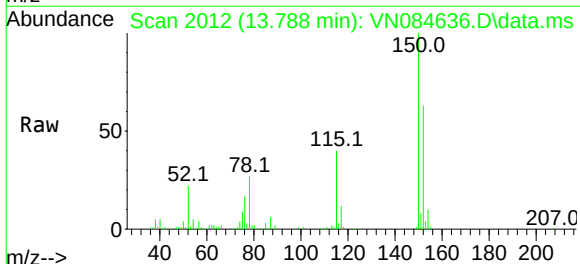
Tgt Ion:152 Resp: 121785

Ion Ratio Lower Upper

152 100

115 63.0 31.3 93.9

150 159.3 0.0 349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
 Data File : VN084636.D
 Acq On : 01 Nov 2024 14:17
 Operator : JC\MD
 Sample : P4665-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-190-GW-558-560

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\82N103024W.M
 Title : SW846 8260

Signal : TIC: VN084636.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.077	15	21	27	rVB	127841	169444	17.57%	3.009%
2	2.318	54	62	68	rVB4	14855	29565	3.07%	0.525%
3	2.483	84	90	93	rBV	40455	70833	7.35%	1.258%
4	2.736	126	133	138	rBV2	5299	10492	1.09%	0.186%
5	2.848	141	152	153	rBV6	8924	23017	2.39%	0.409%
6	3.200	204	212	220	rVB4	9069	22286	2.31%	0.396%
7	3.512	257	265	273	rBV2	8593	20406	2.12%	0.362%
8	3.612	273	282	294	rVV6	6627	20862	2.16%	0.371%
9	4.442	414	423	434	rBV2	14878	41520	4.31%	0.737%
10	8.165	1045	1056	1060	rBV2	145614	337587	35.01%	5.996%
11	8.224	1060	1066	1078	rVB	253204	567977	58.91%	10.088%
12	8.577	1117	1126	1136	rBV	156146	354572	36.77%	6.297%
13	9.100	1206	1215	1225	rBV	368867	733166	76.04%	13.021%
14	10.565	1455	1464	1478	rBV	528301	964207	100.00%	17.125%
15	11.865	1677	1685	1698	rBV	493314	858725	89.06%	15.251%
16	12.847	1845	1852	1861	rBV	383962	646093	67.01%	11.475%
17	13.788	2005	2012	2020	rBV	440828	759747	78.80%	13.493%

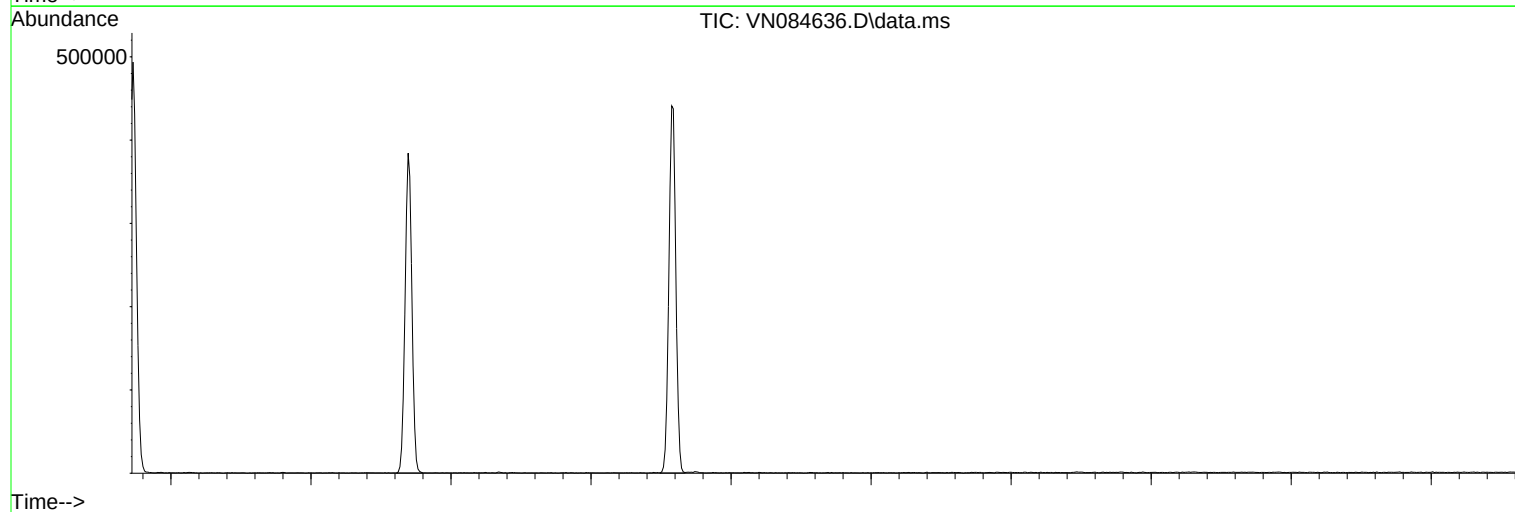
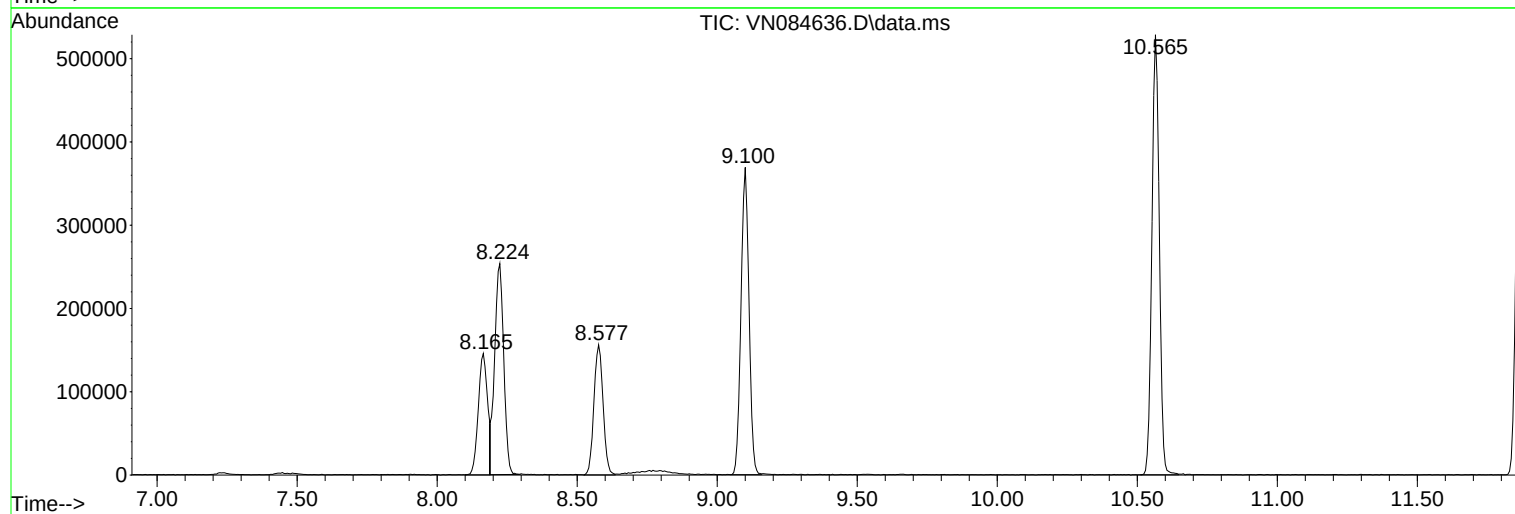
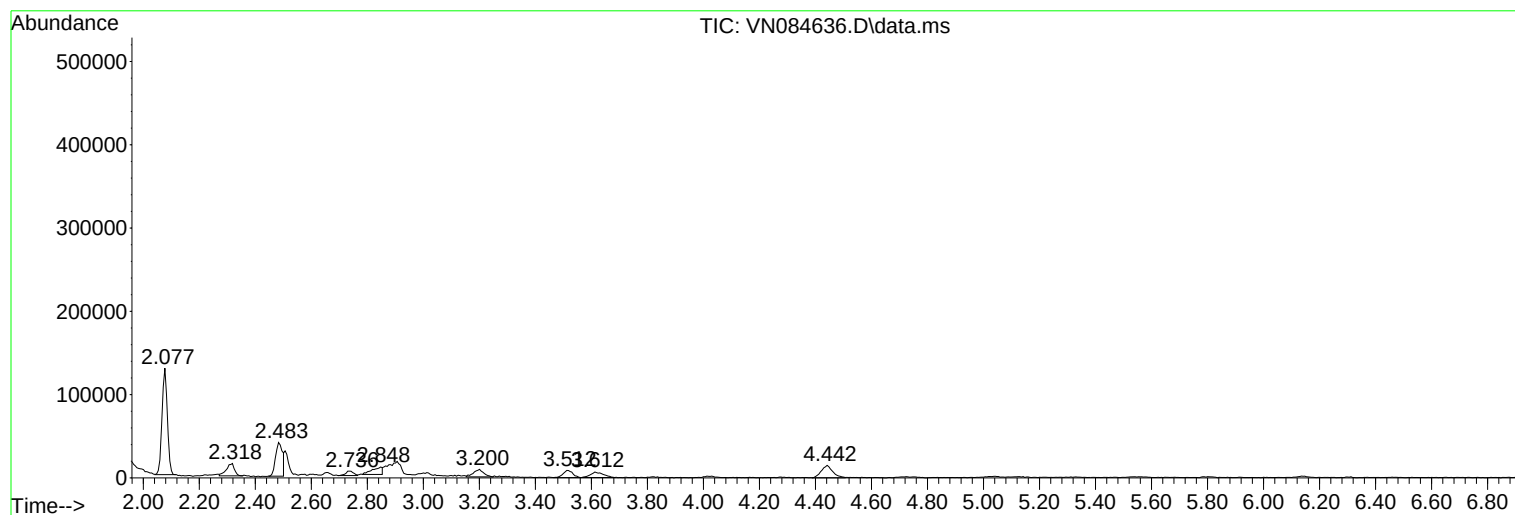
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Data File : VN084636.D
Acq On : 01 Nov 2024 14:17
Operator : JC\MD
Sample : P4665-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-558-560

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084636.D
Acq On : 01 Nov 2024 14:17
Operator : JC\MD
Sample : P4665-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-558-560

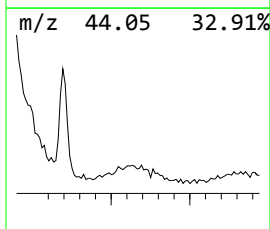
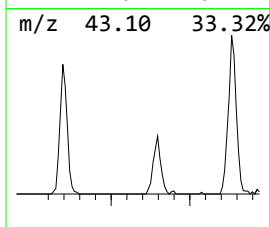
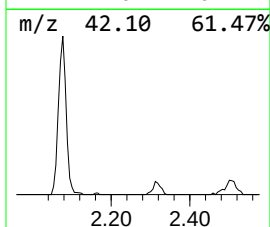
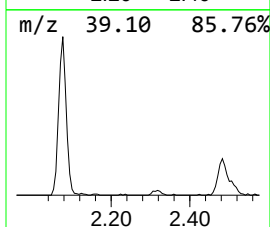
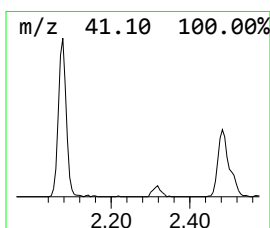
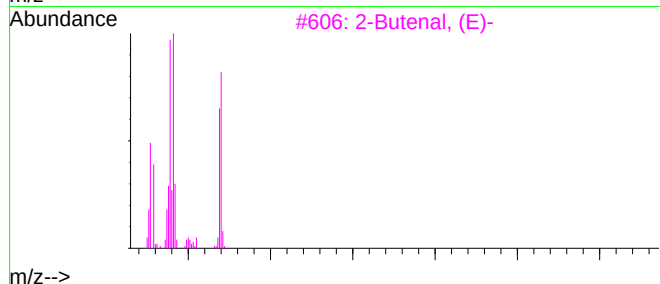
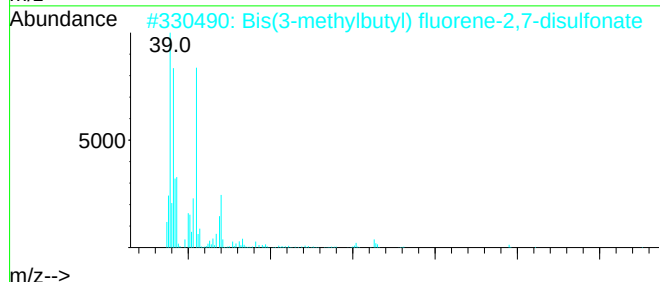
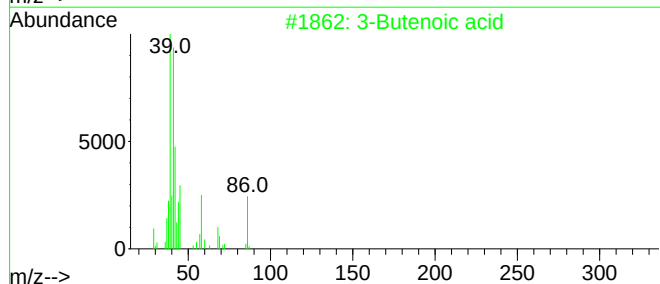
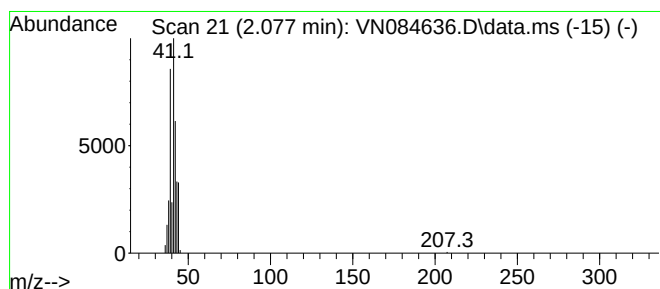
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Quant Title : SW846 8260

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

Peak Number 1 3-Butenoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.077	14.92 ug/l	169444	Pentafluorobenzene	8.224

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Butenoic acid	86	C4H6O2	000625-38-7	78
2	Bis(3-methylbutyl) fluorene-2,7-...	466	C23H30O6S2	253664-95-8	78
3	2-Butenal, (E)-	70	C4H6O	000123-73-9	78
4	Cyclopropanecarboxylic acid	86	C4H6O2	001759-53-1	64
5	N-Methyl-7-azabicyclo(2,2,1)hept...	109	C7H11N	055590-26-6	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084636.D
Acq On : 01 Nov 2024 14:17
Operator : JC\MD
Sample : P4665-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-558-560

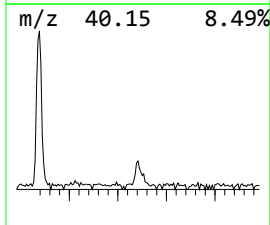
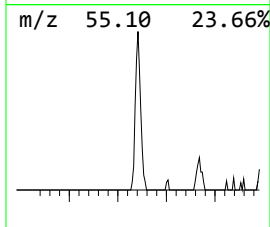
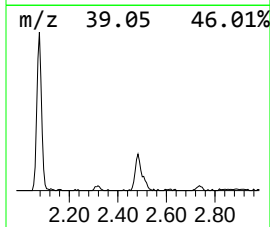
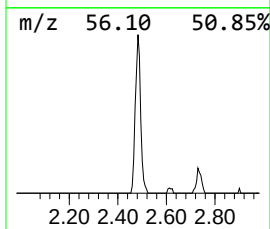
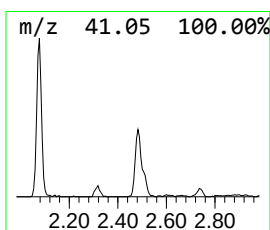
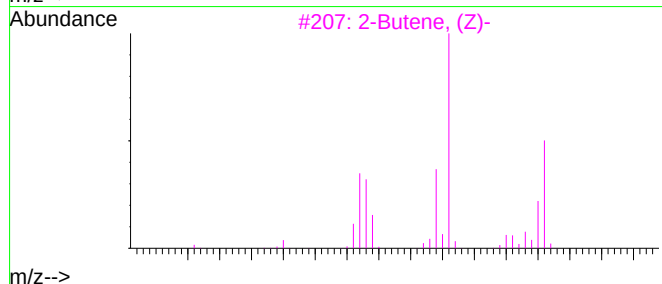
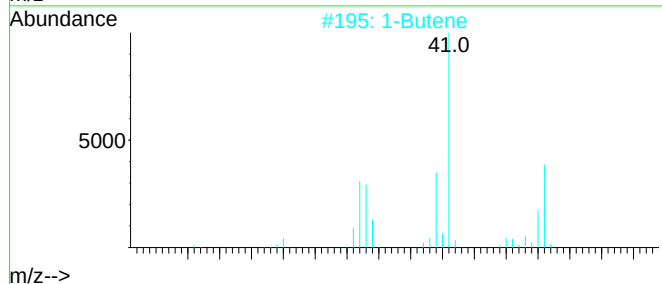
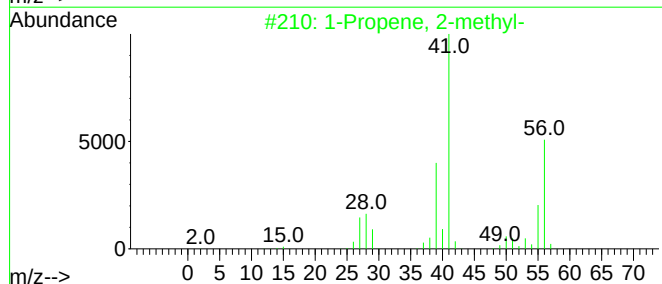
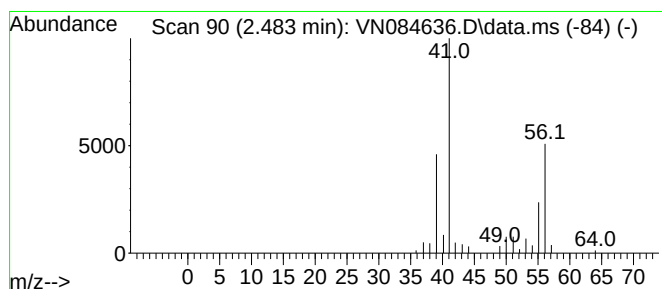
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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

Peak Number 2 1-Propene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.483	6.24 ug/l	70833	Pentafluorobenzene	8.224

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 2-methyl-	56	C4H8	000115-11-7	91
2	1-Butene	56	C4H8	000106-98-9	90
3	2-Butene, (Z)-	56	C4H8	000590-18-1	86
4	2-Butene, (E)-	56	C4H8	000624-64-6	86
5	2-Butene	56	C4H8	000107-01-7	80



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084636.D
Acq On : 01 Nov 2024 14:17
Operator : JC\MD
Sample : P4665-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-558-560

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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
3-Butenoic acid	2.077	14.9	ug/l	169444	1	8.224	567977	50.0
1-Propene, 2-me...	2.483	6.2	ug/l	70833	1	8.224	567977	50.0

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	10/30/24	
Project:	CTO WE13			Date Received:	10/31/24	
Client Sample ID:	BP-VPB-190-GW-583-585			SDG No.:	P4665	
Lab Sample ID:	P4665-06			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
VN084637.D	1		11/01/24 14:42	VN110124

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	7.70		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	2.30	J	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:	10/30/24
Project:	CTO WE13	Date Received:	10/31/24
Client Sample ID:	BP-VPB-190-GW-583-585	SDG No.:	P4665
Lab Sample ID:	P4665-06	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
VN084637.D	1		11/01/24 14:42	VN110124

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	49.6		81 - 118		99%	SPK: 50
1868-53-7	Dibromofluoromethane	48.9		80 - 119		98%	SPK: 50
2037-26-5	Toluene-d8	47.2		89 - 112		94%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.1		85 - 114		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	182000	8.224				
540-36-3	1,4-Difluorobenzene	323000	9.1				
3114-55-4	Chlorobenzene-d5	289000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	124000	13.794				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/30/24
Project:	CTO WE13	Date Received:	10/31/24
Client Sample ID:	BP-VPB-190-GW-583-585	SDG No.:	P4665
Lab Sample ID:	P4665-06	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
VN084637.D	1		11/01/24 14:42	VN110124

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\VN110124\
 Data File : VN084637.D
 Acq On : 01 Nov 2024 14:42
 Operator : JC\MD
 Sample : P4665-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-190-GW-583-585

Quant Time: Nov 04 04:27:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

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

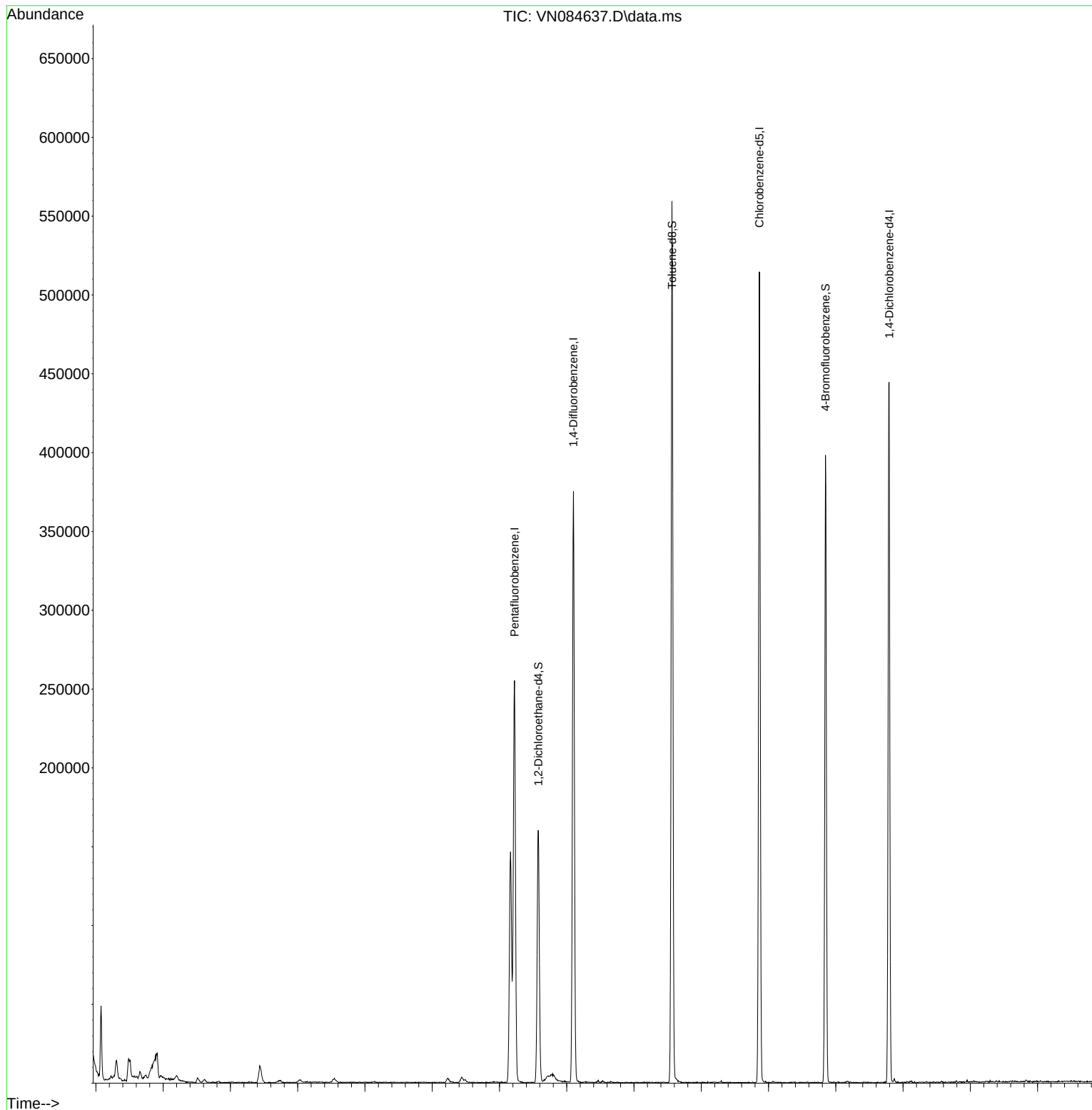
Internal Standards						
1) Pentafluorobenzene	8.224	168	182088	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	322631	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	288967	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	124365	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	130524	49.630	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.260%		
35) Dibromofluoromethane	8.165	113	106829	48.918	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.840%		
50) Toluene-d8	10.565	98	380085	47.248	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	94.500%		
62) 4-Bromofluorobenzene	12.847	95	138582	46.094	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	92.180%		
Target Compounds						
16) Acetone	4.436	43	7982	7.743	ug/l #	84
25) 2-Butanone	7.494	43	2855	2.327	ug/l #	76

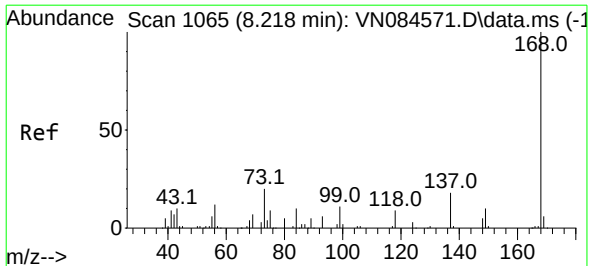
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084637.D
Acq On : 01 Nov 2024 14:42
Operator : JC\MD
Sample : P4665-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-583-585

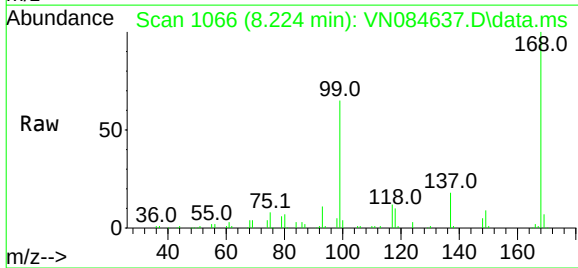
Quant Time: Nov 04 04:27:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



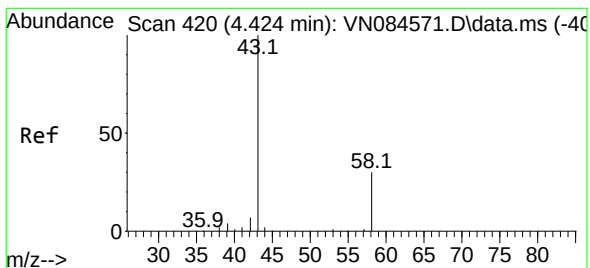
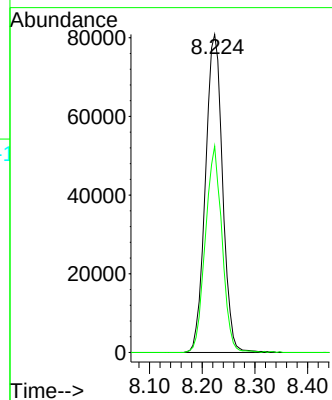
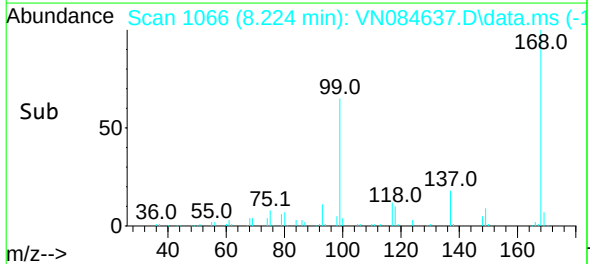


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084637.D
Acq: 01 Nov 2024 14:42

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-583-585

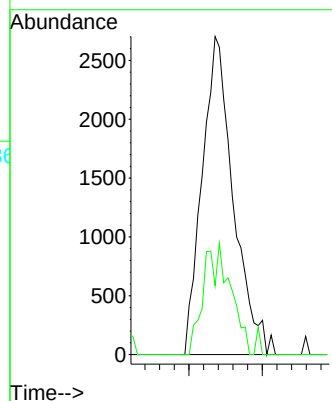
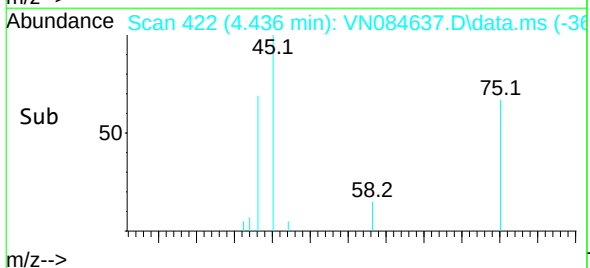
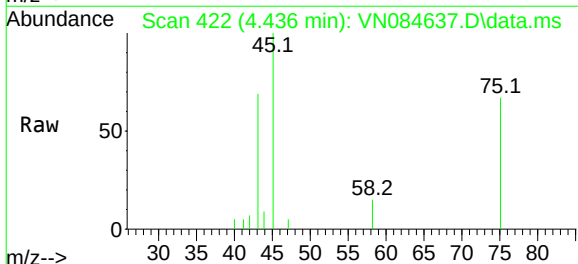


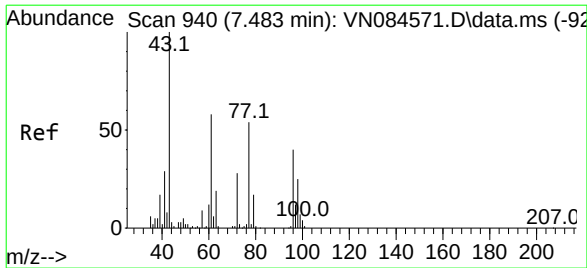
Tgt Ion:168 Resp: 182088
Ion Ratio Lower Upper
168 100
99 64.9 54.2 81.2



#16
Acetone
Concen: 7.743 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN084637.D
Acq: 01 Nov 2024 14:42

Tgt Ion: 43 Resp: 7982
Ion Ratio Lower Upper
43 100
58 21.6 24.4 36.6#





#25

2-Butanone

Concen: 2.327 ug/l

RT: 7.494 min Scan# 94

Delta R.T. 0.012 min

Lab File: VN084637.D

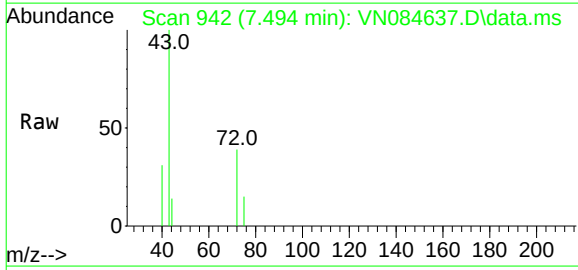
Acq: 01 Nov 2024 14:42

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190-GW-583-585

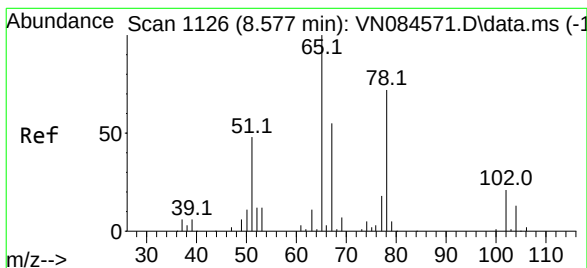
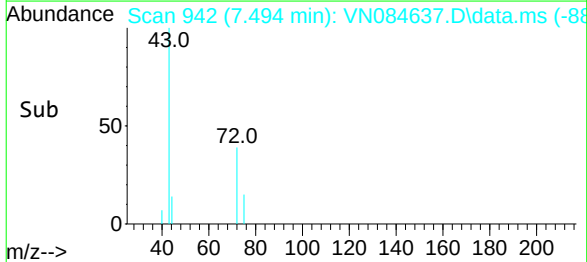
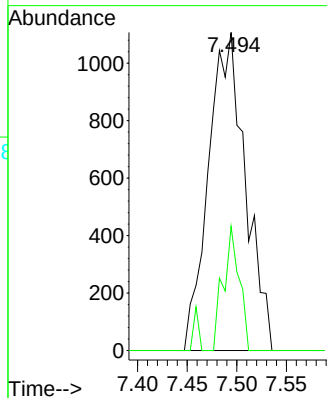


Tgt Ion: 43 Resp: 2855

Ion Ratio Lower Upper

43 100

72 39.0 21.4 32.2#



#33

1,2-Dichloroethane-d4

Concen: 49.630 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN084637.D

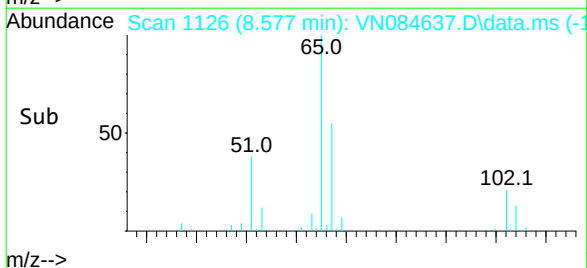
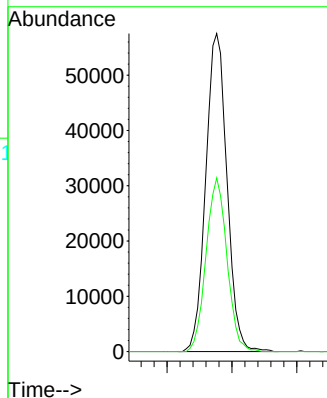
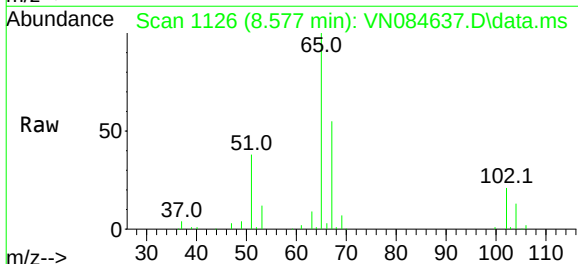
Acq: 01 Nov 2024 14:42

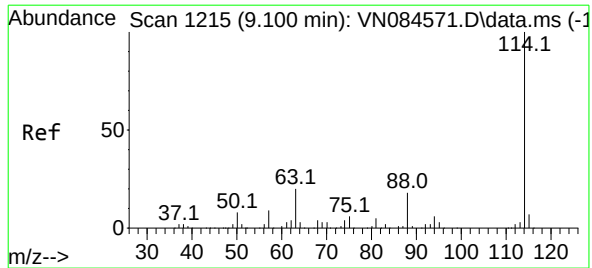
Tgt Ion: 65 Resp: 130524

Ion Ratio Lower Upper

65 100

67 53.7 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN084637.D

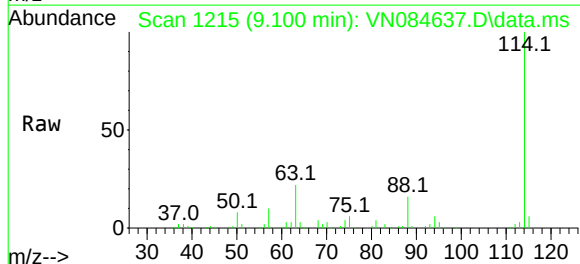
Acq: 01 Nov 2024 14:42

Instrument :

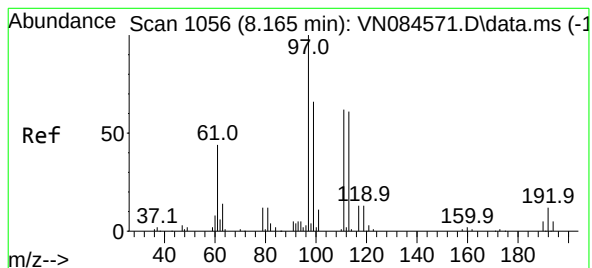
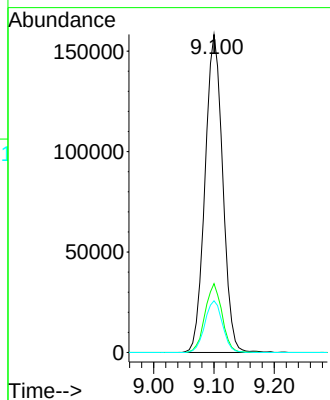
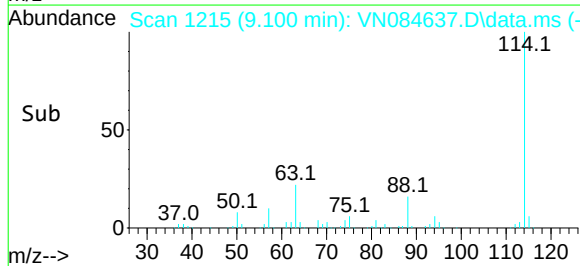
MSVOA_N

ClientSampleId :

BP-VPB-190-GW-583-585



Tgt Ion:	114	Resp:	322631
Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	43.8
88	16.3	0.0	31.6



#35

Dibromofluoromethane

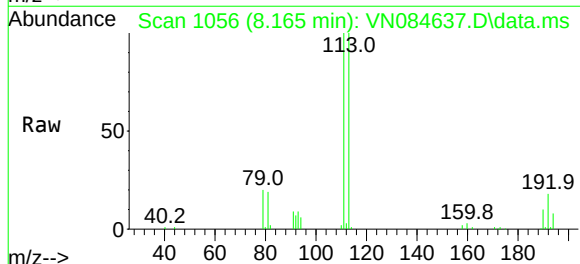
Concen: 48.918 ug/l

RT: 8.165 min Scan# 1056

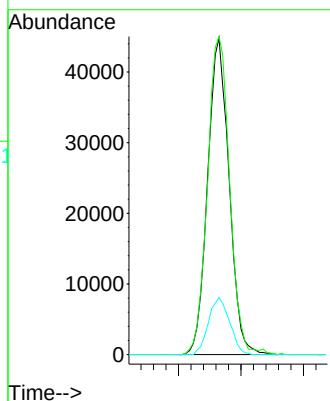
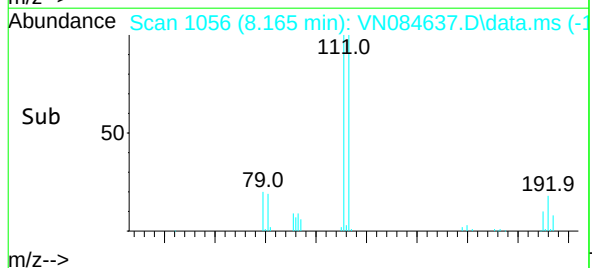
Delta R.T. -0.000 min

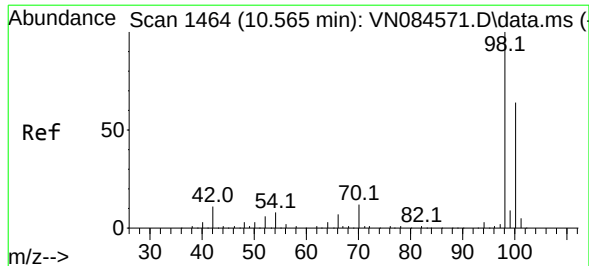
Lab File: VN084637.D

Acq: 01 Nov 2024 14:42



Tgt Ion:	113	Resp:	106829
Ion	Ratio	Lower	Upper
113	100		
111	103.9	83.3	124.9
192	17.7	13.5	20.3





#50

Toluene-d8

Concen: 47.248 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084637.D

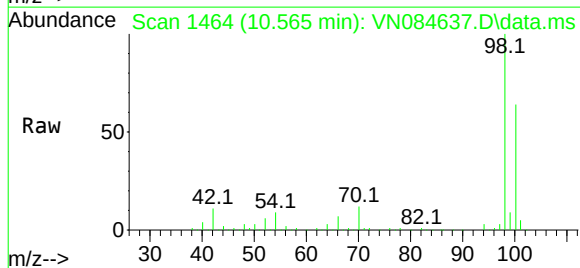
Acq: 01 Nov 2024 14:42

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190-GW-583-585

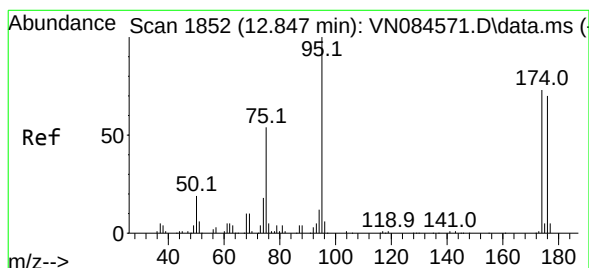
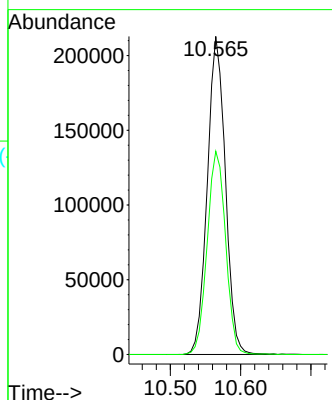
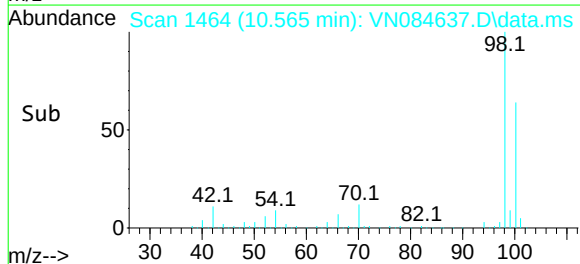


Tgt Ion: 98 Resp: 380085

Ion Ratio Lower Upper

98 100

100 65.3 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 46.094 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN084637.D

Acq: 01 Nov 2024 14:42

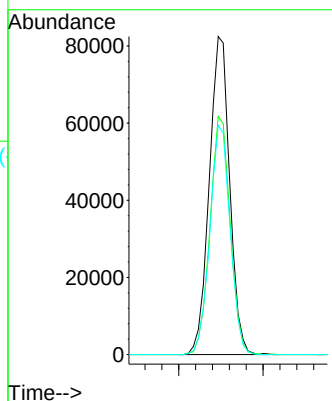
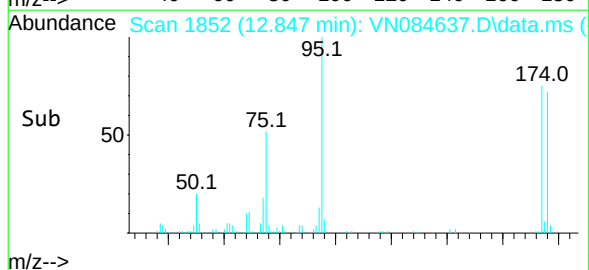
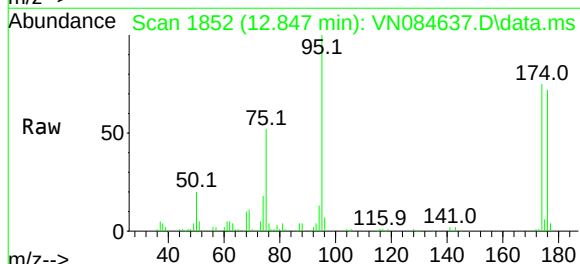
Tgt Ion: 95 Resp: 138582

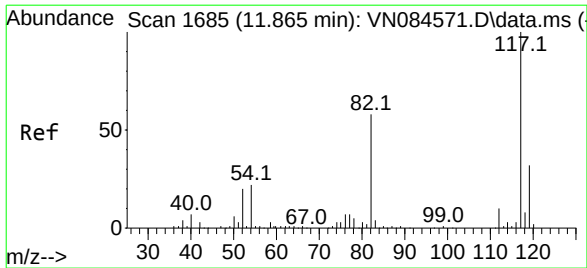
Ion Ratio Lower Upper

95 100

174 74.2 0.0 145.2

176 71.5 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 16

Delta R.T. -0.000 min

Lab File: VN084637.D

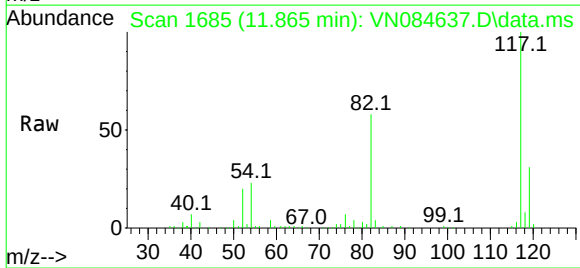
Acq: 01 Nov 2024 14:42

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190-GW-583-585



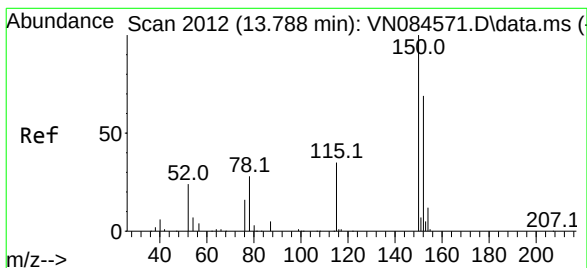
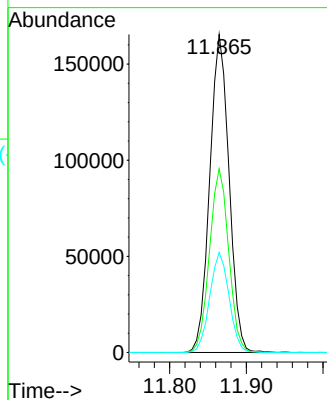
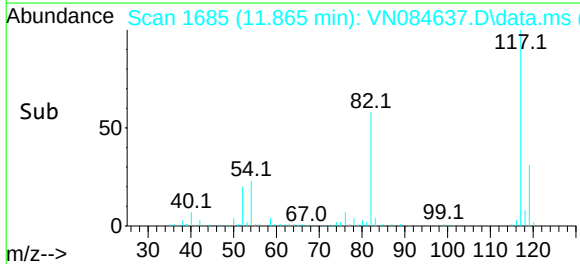
Tgt Ion:117 Resp: 288967

Ion Ratio Lower Upper

117 100

82 57.8 47.2 70.8

119 31.4 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.006 min

Lab File: VN084637.D

Acq: 01 Nov 2024 14:42

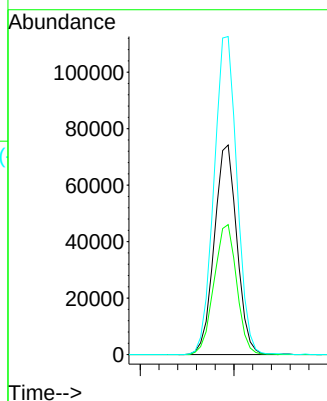
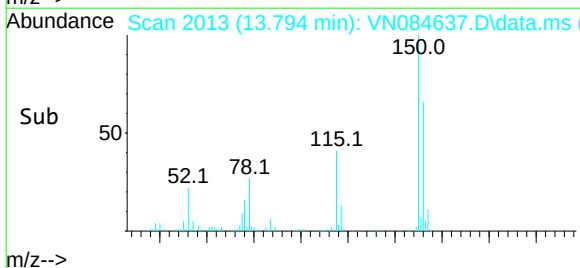
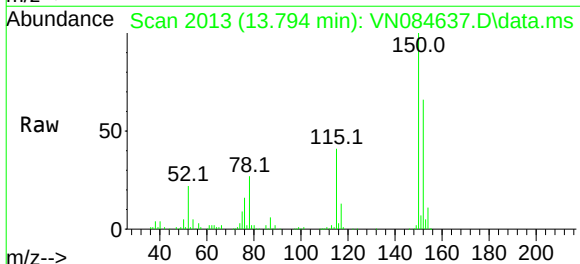
Tgt Ion:152 Resp: 124365

Ion Ratio Lower Upper

152 100

115 62.3 31.3 93.9

150 154.6 0.0 349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
 Data File : VN084637.D
 Acq On : 01 Nov 2024 14:42
 Operator : JC\MD
 Sample : P4665-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-190-GW-583-585

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\82N103024W.M

Title : SW846 8260

Signal : TIC: VN084637.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.077	16	21	30	rVB	47049	69276	6.88%	1.253%
2	2.306	52	60	67	rVB5	11607	26057	2.59%	0.471%
3	2.489	85	91	93	rBV3	14332	26639	2.64%	0.482%
4	2.824	140	148	149	rBV2	6581	13423	1.33%	0.243%
5	4.436	415	422	436	rVB3	10819	31395	3.12%	0.568%
6	8.165	1046	1056	1060	rBV	146359	341422	33.88%	6.174%
7	8.224	1060	1066	1081	rVB	254836	576550	57.22%	10.426%
8	8.577	1116	1126	1137	rBV	160048	361877	35.91%	6.544%
9	9.100	1205	1215	1225	rBV	374913	758092	75.24%	13.709%
10	10.565	1456	1464	1473	rBV	559018	1007605	100.00%	18.221%
11	11.865	1674	1685	1698	rBV	514584	892480	88.57%	16.139%
12	12.847	1841	1852	1861	rBV	398201	661437	65.64%	11.961%
13	13.794	2005	2013	2022	rBV	444466	763755	75.80%	13.811%

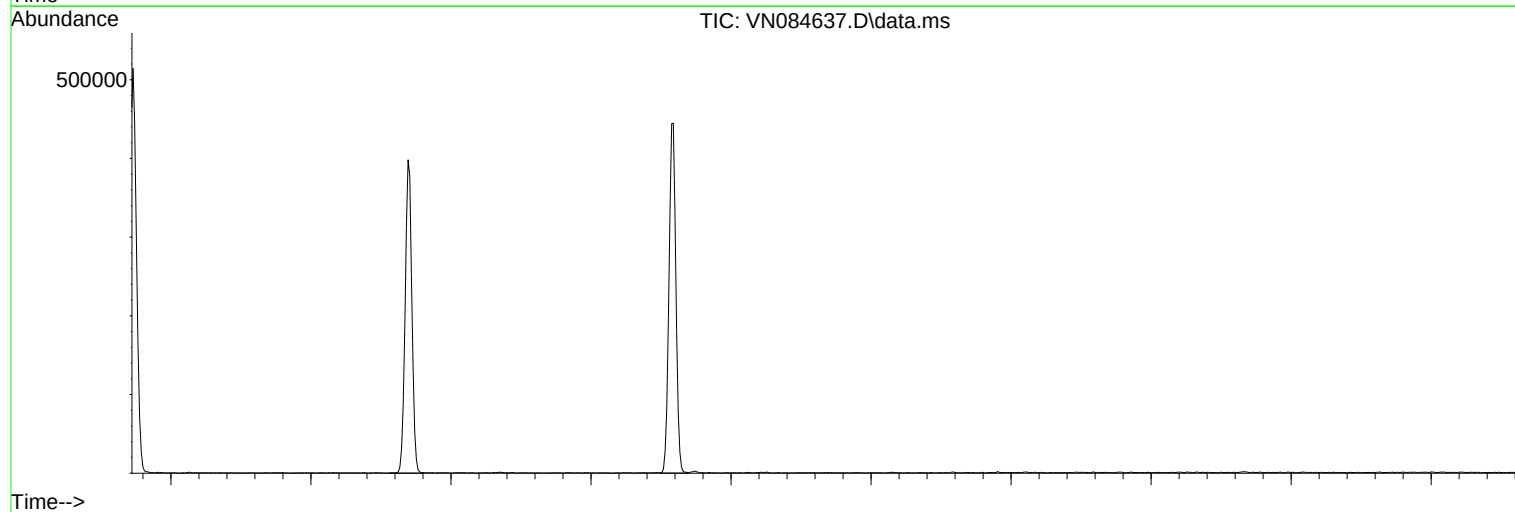
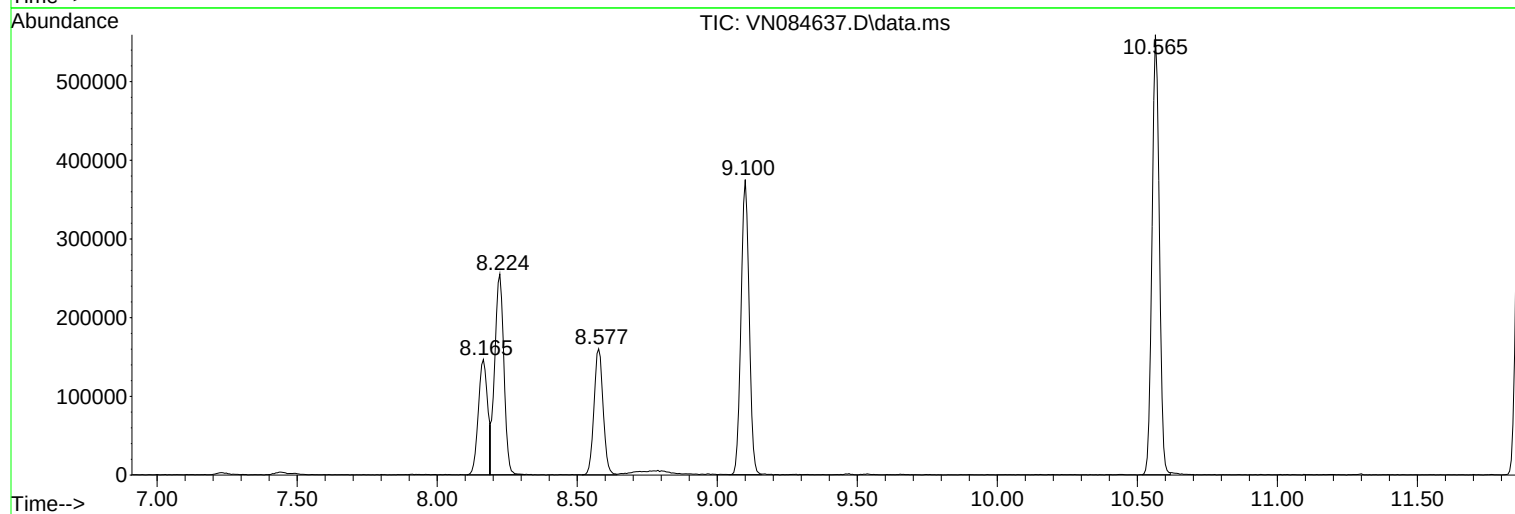
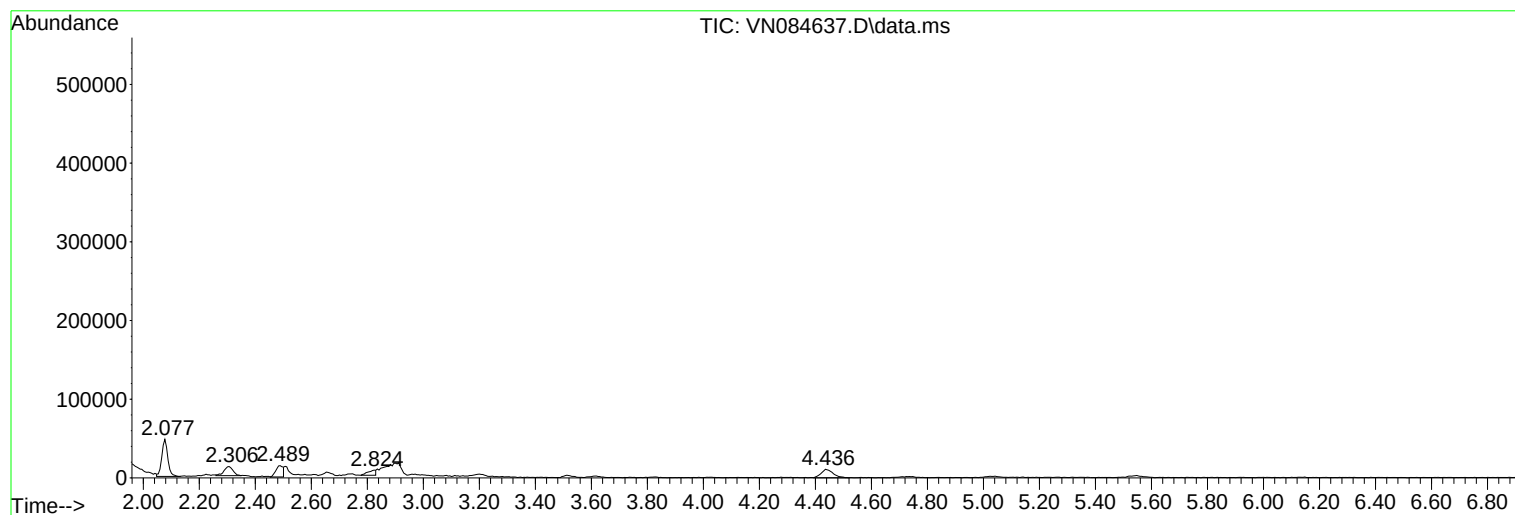
Sum of corrected areas: 5530008

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084637.D
Acq On : 01 Nov 2024 14:42
Operator : JC\MD
Sample : P4665-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-583-585

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084637.D
Acq On : 01 Nov 2024 14:42
Operator : JC\MD
Sample : P4665-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-583-585

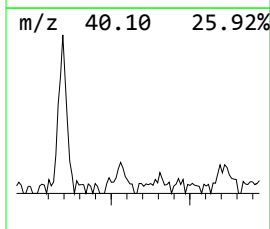
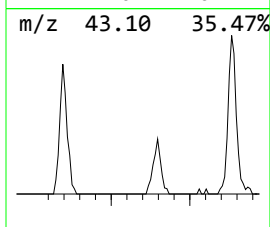
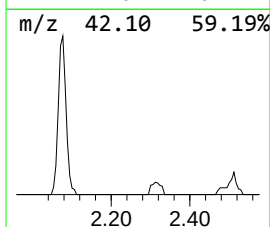
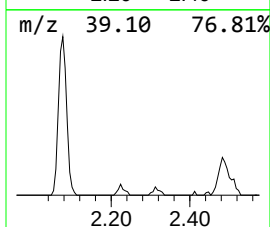
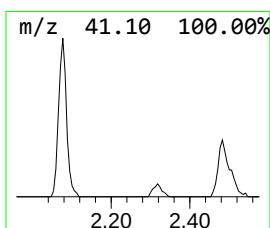
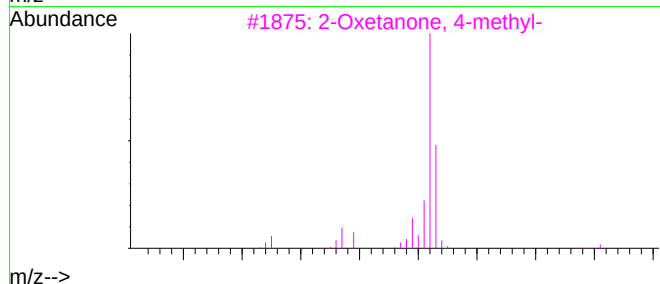
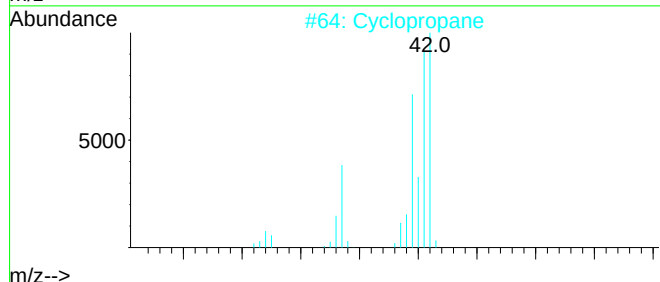
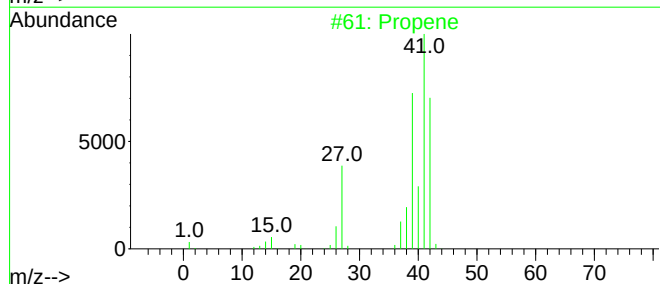
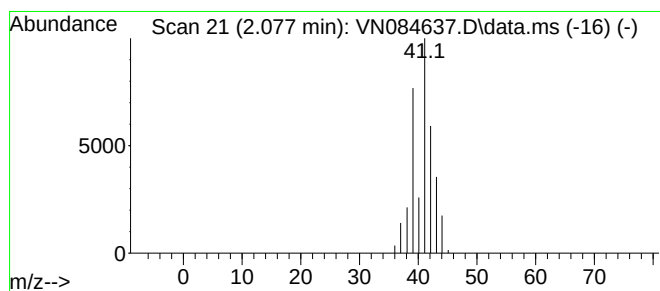
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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

Peak Number 1 Propene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.077	6.01 ug/l	69276	Pentafluorobenzene	8.224

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propene	42	C3H6	000115-07-1	90
2	Cyclopropane	42	C3H6	000075-19-4	43
3	2-Oxetanone, 4-methyl-	86	C4H6O2	003068-88-0	9
4	Cyclopropene	40	C3H4	002781-85-3	9
5	4-Amino-1-butanol	89	C4H11NO	013325-10-5	2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084637.D
Acq On : 01 Nov 2024 14:42
Operator : JC\MD
Sample : P4665-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-583-585

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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
Propene	2.077	6.0	ug/l	69276	1	8.224	576550	50.0

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	10/30/24		
Project:	CTO WE13			Date Received:	10/31/24		
Client Sample ID:	BP-VPB-190-GW-598-600			SDG No.:	P4665		
Lab Sample ID:	P4665-07			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
VN084641.D	1		11/01/24 16:19	VN110124

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	0.98	J	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:	10/30/24
Project:	CTO WE13			Date Received:	10/31/24
Client Sample ID:	BP-VPB-190-GW-598-600			SDG No.:	P4665
Lab Sample ID:	P4665-07			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
VN084641.D	1		11/01/24 16:19	VN110124

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	50.0		81 - 118		100%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	47.2		89 - 112		94%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.2		85 - 114		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	170000	8.218				
540-36-3	1,4-Difluorobenzene	295000	9.1				
3114-55-4	Chlorobenzene-d5	266000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	115000	13.788				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	10/30/24
Project:	CTO WE13		Date Received:	10/31/24
Client Sample ID:	BP-VPB-190-GW-598-600		SDG No.:	P4665
Lab Sample ID:	P4665-07		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
VN084641.D	1		11/01/24 16:19	VN110124

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\VN110124\
 Data File : VN084641.D
 Acq On : 01 Nov 2024 16:19
 Operator : JC\MD
 Sample : P4665-07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-190-GW-598-600

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
 Supervised By :Semsettin Yesilyurt 11/04/2024

Quant Time: Nov 04 04:29:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	169823	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	295064	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	266018	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	115441	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	122601	49.984	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.960%		
35) Dibromofluoromethane	8.159	113	98779	49.458	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.920%		
50) Toluene-d8	10.565	98	347290	47.204	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	94.400%		
62) 4-Bromofluorobenzene	12.847	95	129879	47.236	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	94.480%		
Target Compounds						
9) 1,1,2-Trichlorotrifluo...	4.365	101	1924m	0.984	ug/l	Qvalue
44) Trichloroethene	9.341	130	532	0.259	ug/l	92

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

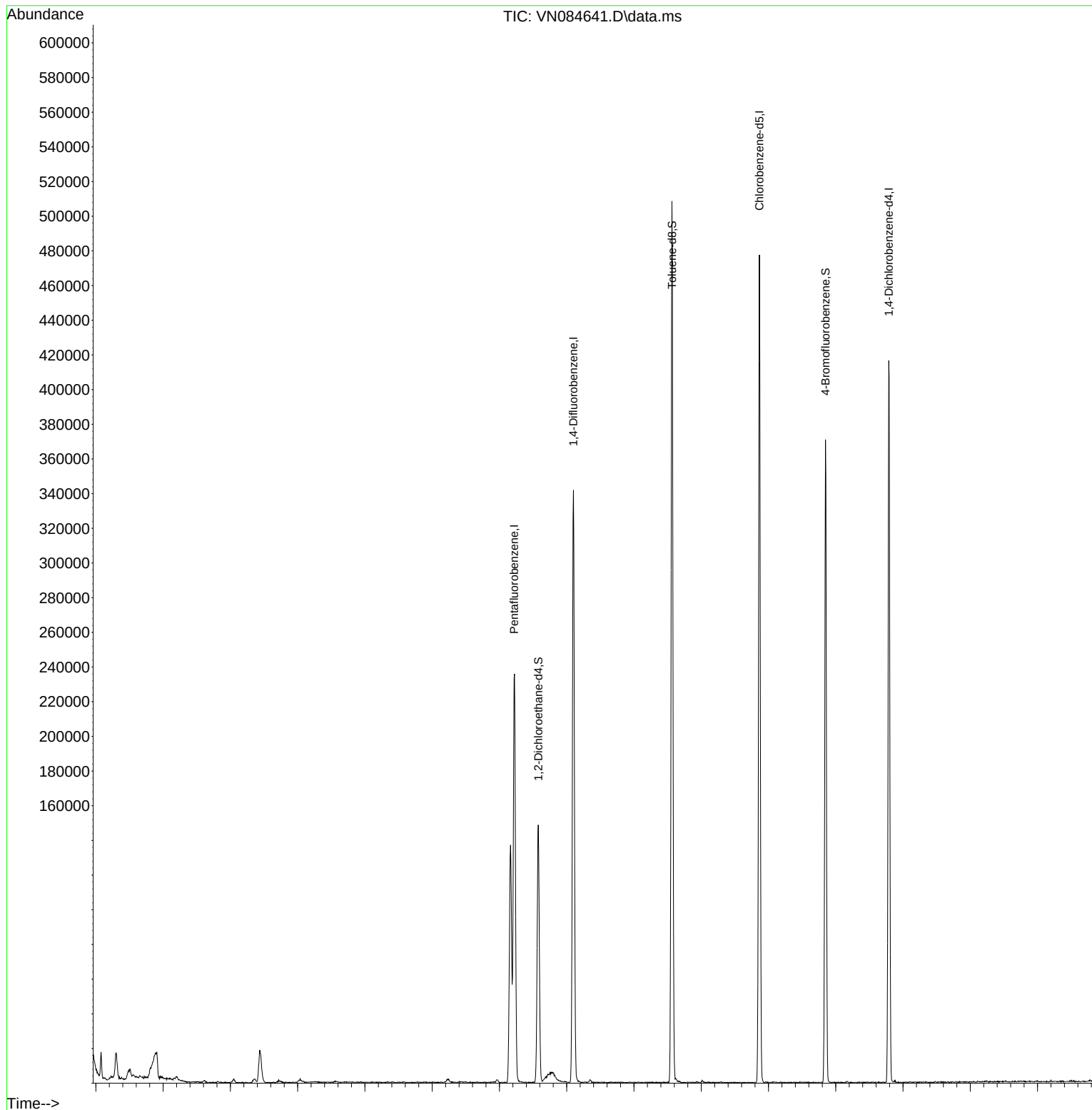
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Data File : VN084641.D
Acq On : 01 Nov 2024 16:19
Operator : JC\MD
Sample : P4665-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

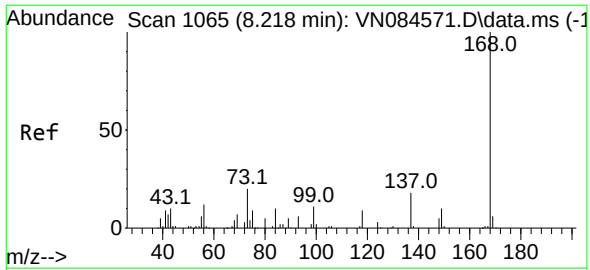
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-598-600

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

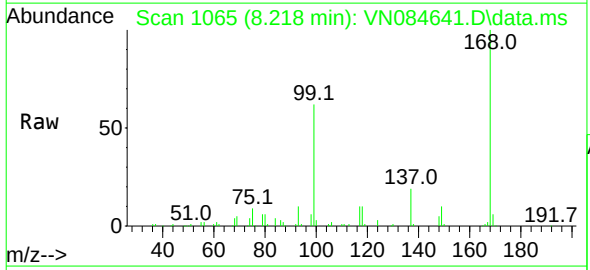
Quant Time: Nov 04 04:29:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN084641.D
Acq: 01 Nov 2024 16:19

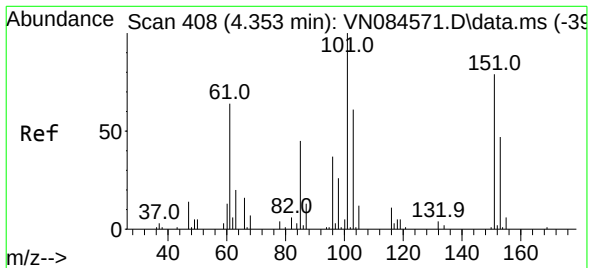
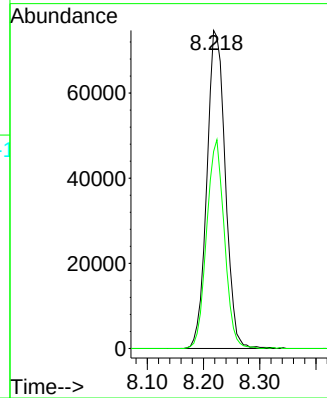
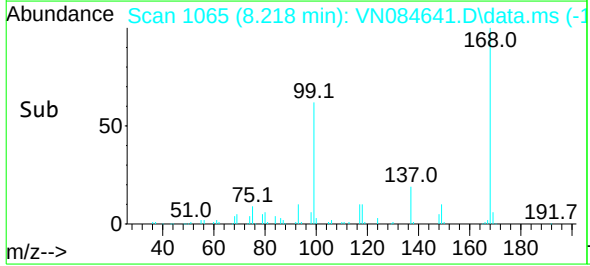
Instrument : MSVOA_N
ClientSampleId : BP-VPB-190-GW-598-600



Tgt Ion:168 Resp: 169823
Ion Ratio Lower Upper
168 100
99 61.9 54.2 81.2

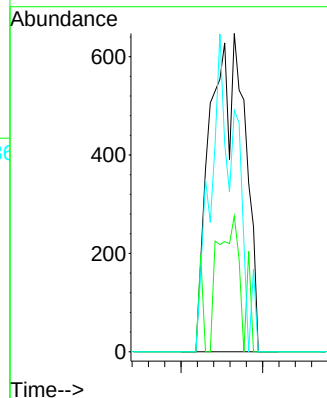
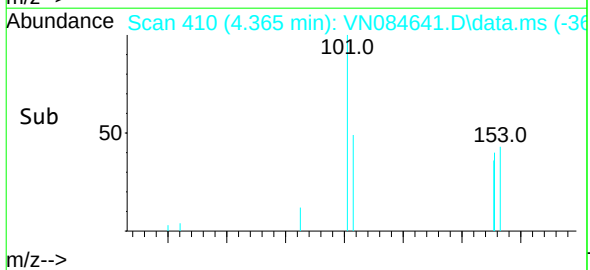
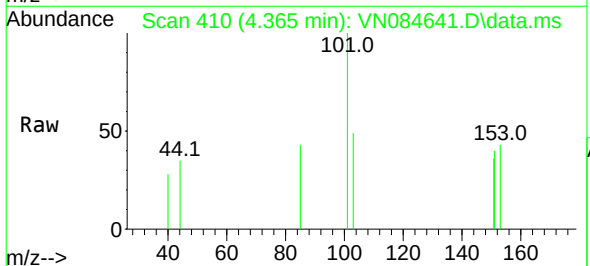
Manual Integrations
APPROVED

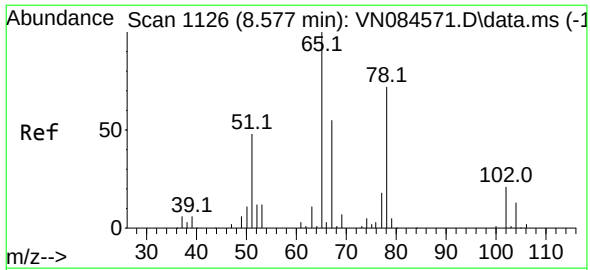
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.984 ug/l m
RT: 4.365 min Scan# 410
Delta R.T. -0.006 min
Lab File: VN084641.D
Acq: 01 Nov 2024 16:19

Tgt Ion:101 Resp: 1924
Ion Ratio Lower Upper
101 100
85 28.5 36.2 54.4#
151 47.5 59.3 88.9#





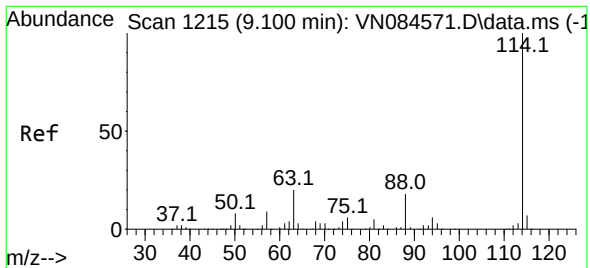
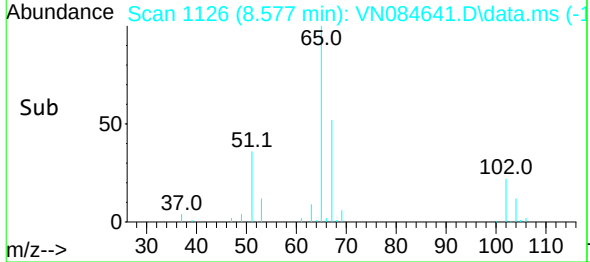
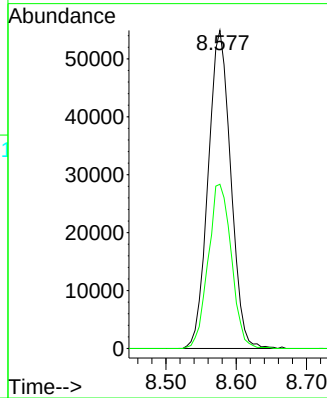
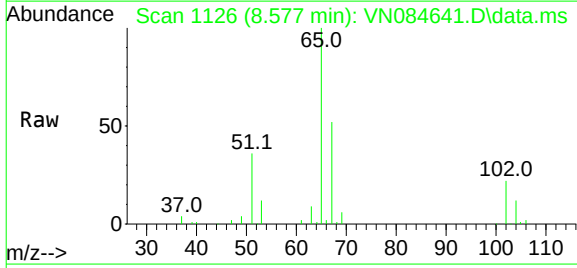
#33
1,2-Dichloroethane-d4
Concen: 49.984 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084641.D
Acq: 01 Nov 2024 16:19

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-598-600

Tgt Ion: 65 Resp: 122601
Ion Ratio Lower Upper
65 100
67 53.0 0.0 102.0

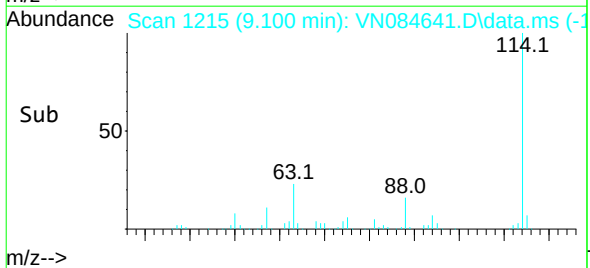
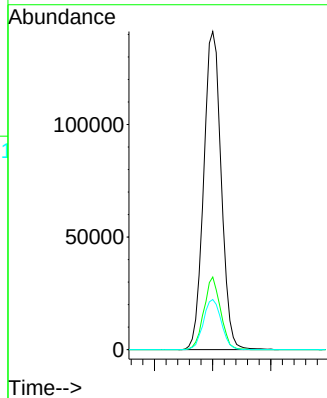
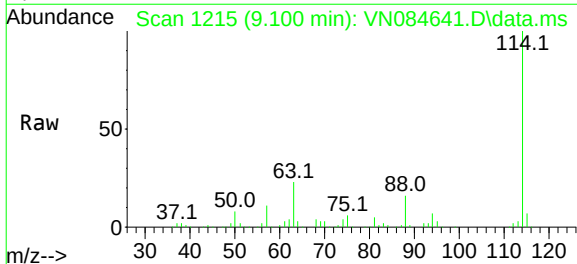
Manual Integrations
APPROVED

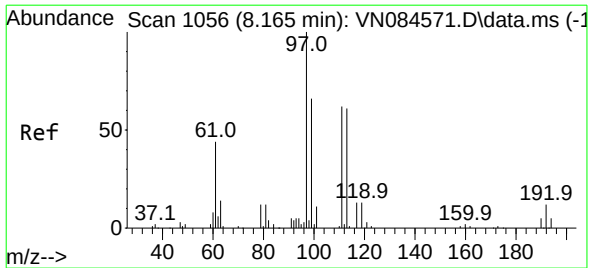
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084641.D
Acq: 01 Nov 2024 16:19

Tgt Ion:114 Resp: 295064
Ion Ratio Lower Upper
114 100
63 22.8 0.0 43.8
88 15.7 0.0 31.6





#35

Dibromofluoromethane

Concen: 49.458 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.006 min

Lab File: VN084641.D

Acq: 01 Nov 2024 16:19

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190-GW-598-600

Tgt Ion:113 Resp: 98779

Ion Ratio Lower Upper

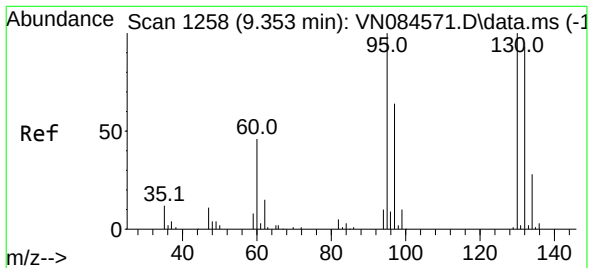
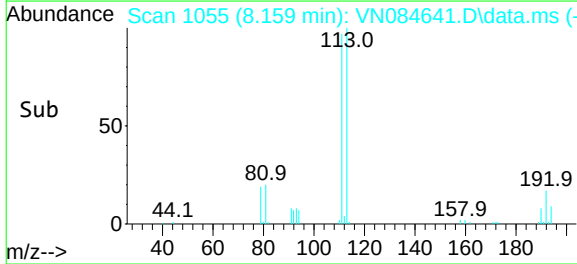
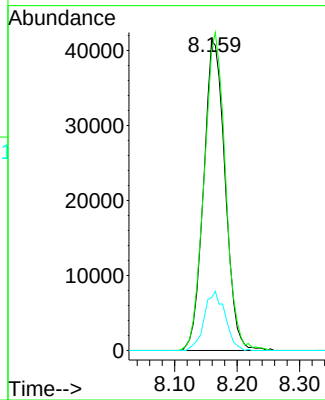
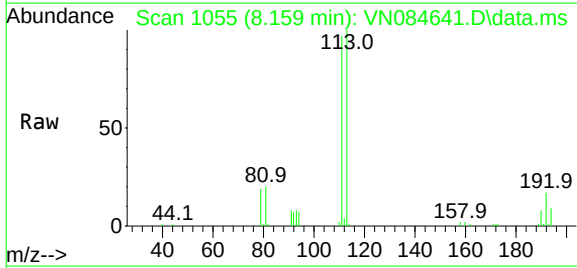
113 100

111 102.5 83.3 124.9

192 18.6 13.5 20.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#44

Trichloroethene

Concen: 0.259 ug/l

RT: 9.341 min Scan# 1256

Delta R.T. -0.006 min

Lab File: VN084641.D

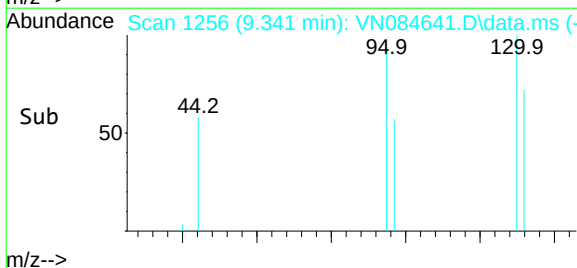
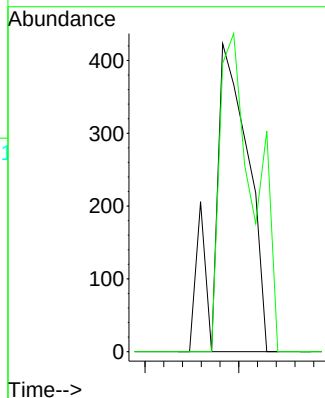
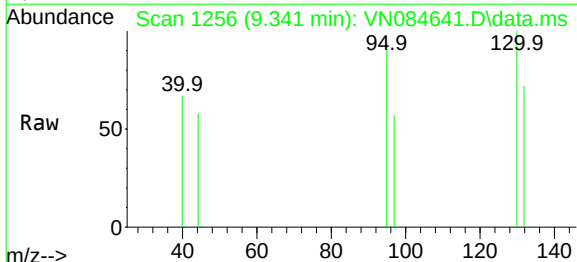
Acq: 01 Nov 2024 16:19

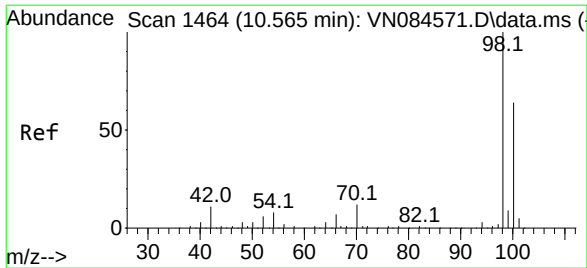
Tgt Ion:130 Resp: 532

Ion Ratio Lower Upper

130 100

95 93.6 0.0 203.0





#50

Toluene-d8

Concen: 47.204 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084641.D

Acq: 01 Nov 2024 16:19

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190-GW-598-600

Tgt Ion: 98 Resp: 347290

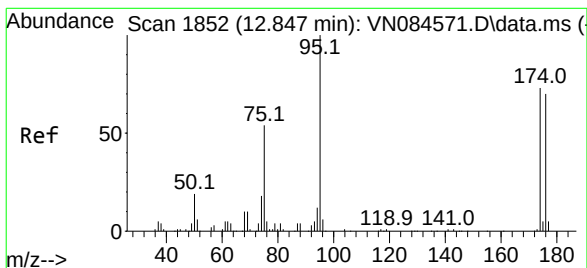
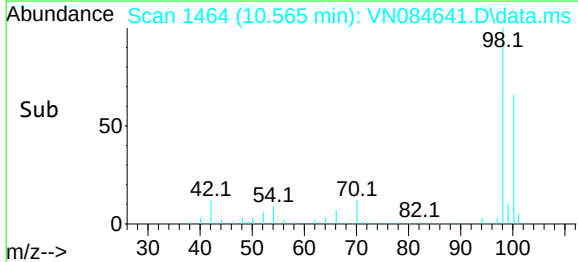
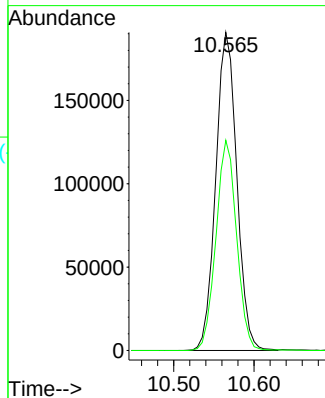
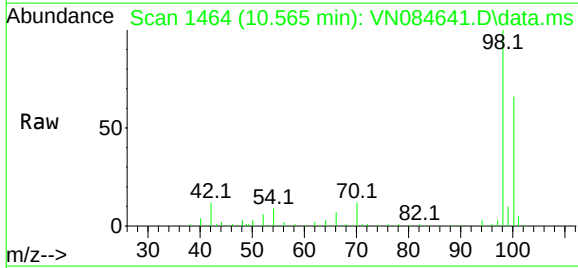
Ion Ratio Lower Upper

98 100

100 65.0 52.7 79.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#62

4-Bromofluorobenzene

Concen: 47.236 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN084641.D

Acq: 01 Nov 2024 16:19

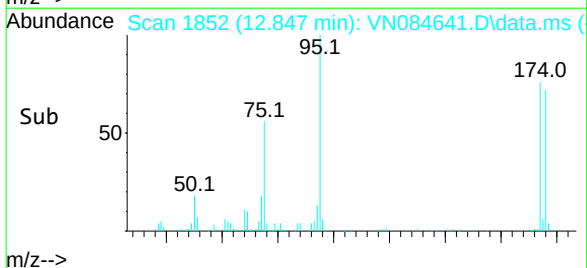
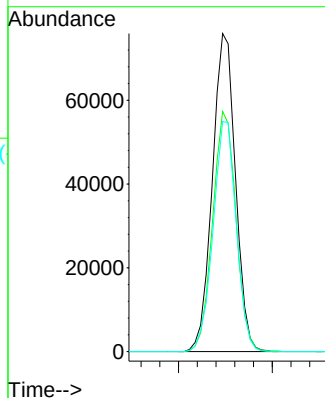
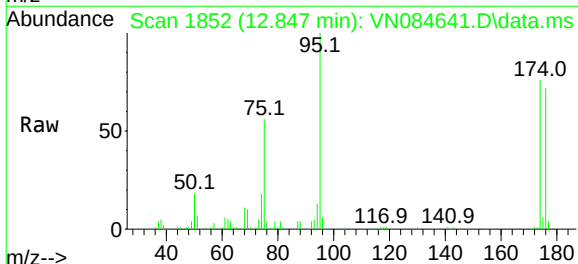
Tgt Ion: 95 Resp: 129879

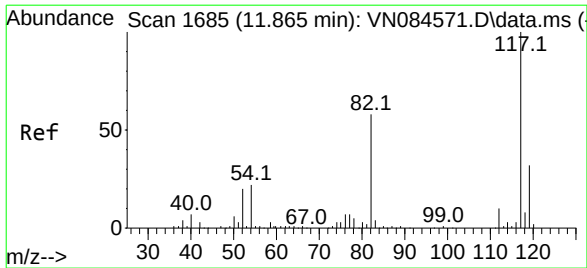
Ion Ratio Lower Upper

95 100

174 76.1 0.0 145.2

176 72.7 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN084641.D

Acq: 01 Nov 2024 16:19

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190-GW-598-600

Tgt Ion:117 Resp: 266018

Ion Ratio Lower Upper

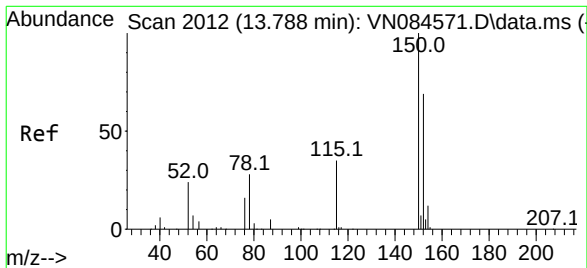
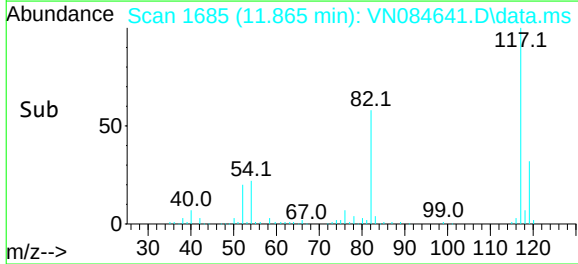
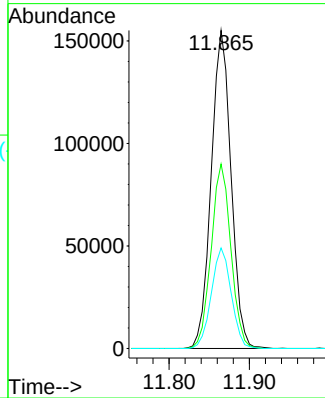
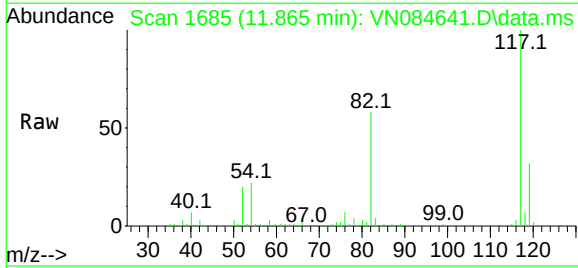
117 100

82 58.0 47.2 70.8

119 31.6 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN084641.D

Acq: 01 Nov 2024 16:19

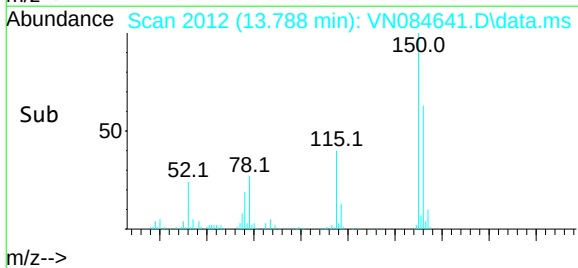
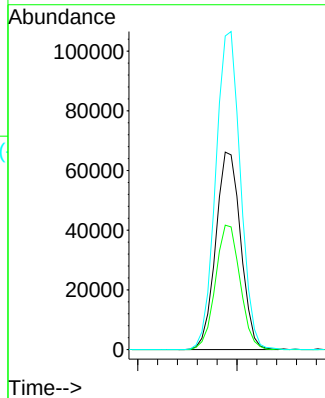
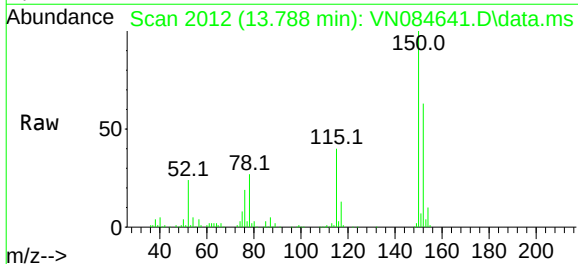
Tgt Ion:152 Resp: 115441

Ion Ratio Lower Upper

152 100

115 62.3 31.3 93.9

150 159.6 0.0 349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
 Data File : VN084641.D
 Acq On : 01 Nov 2024 16:19
 Operator : JC\MD
 Sample : P4665-07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-190-GW-598-600

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\82N103024W.M
 Title : SW846 8260

Signal : TIC: VN084641.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.077	16	21	26	rVB	15255	19866	2.16%	0.388%
2	2.301	52	59	66	rVB4	14734	32833	3.57%	0.641%
3	2.489	83	91	92	rBV2	5253	9663	1.05%	0.189%
4	2.812	139	146	147	rBV3	5895	10109	1.10%	0.197%
5	2.889	147	159	160	rVV7	8988	25000	2.72%	0.488%
6	4.436	414	422	438	rVB	18960	54724	5.95%	1.068%
7	8.165	1047	1056	1060	rBV	136885	318547	34.63%	6.217%
8	8.224	1060	1066	1076	rVB	234956	530675	57.70%	10.358%
9	8.577	1117	1126	1136	rBV	148500	333072	36.21%	6.501%
10	9.100	1206	1215	1227	rBV	341467	703689	76.51%	13.735%
11	10.565	1456	1464	1472	rBV	508324	919763	100.00%	17.952%
12	11.865	1674	1685	1698	rBV	477439	821184	89.28%	16.028%
13	12.847	1844	1852	1864	rBV	370837	627682	68.24%	12.251%
14	13.788	2005	2012	2024	rBV	416330	716634	77.92%	13.987%

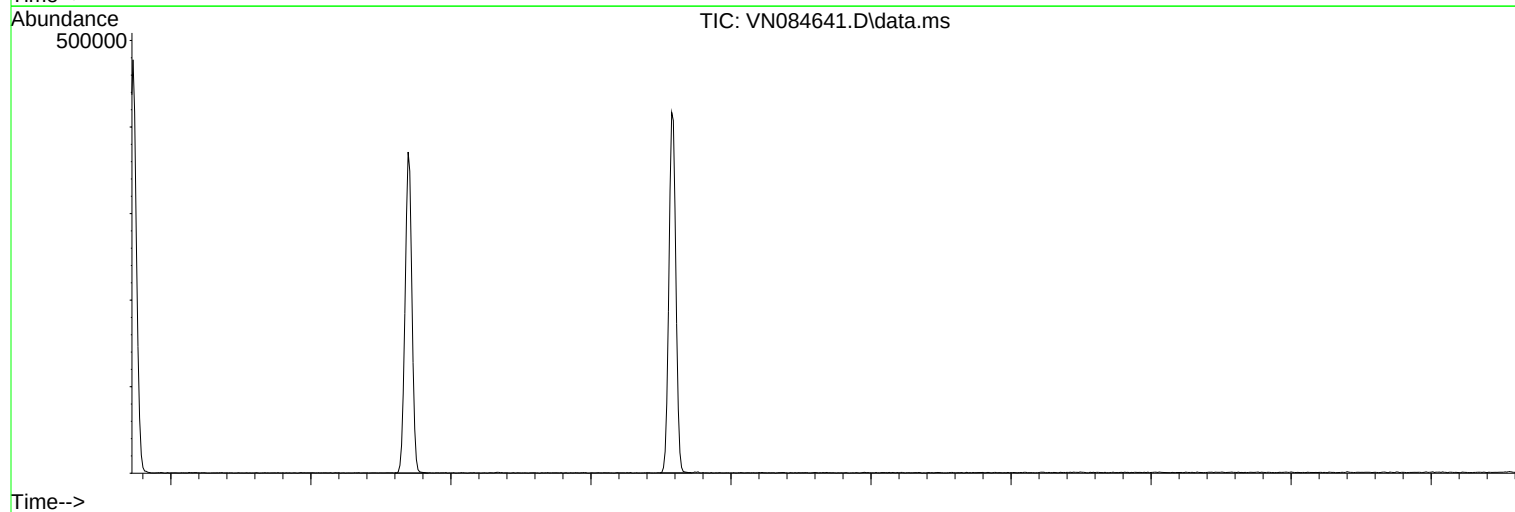
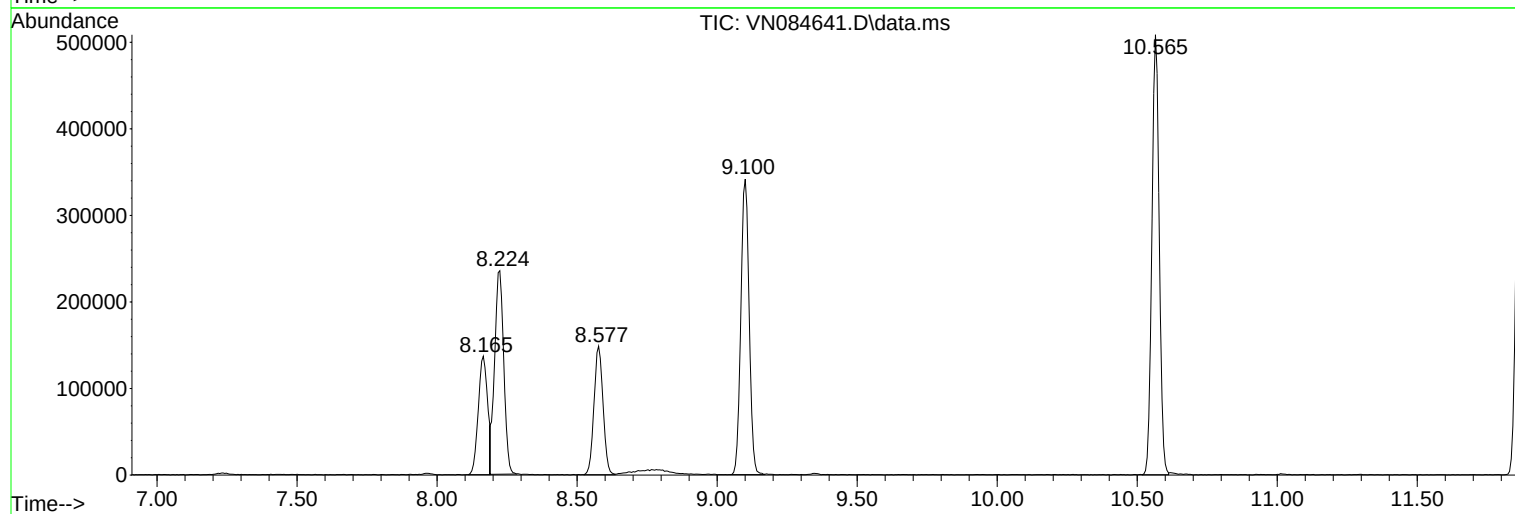
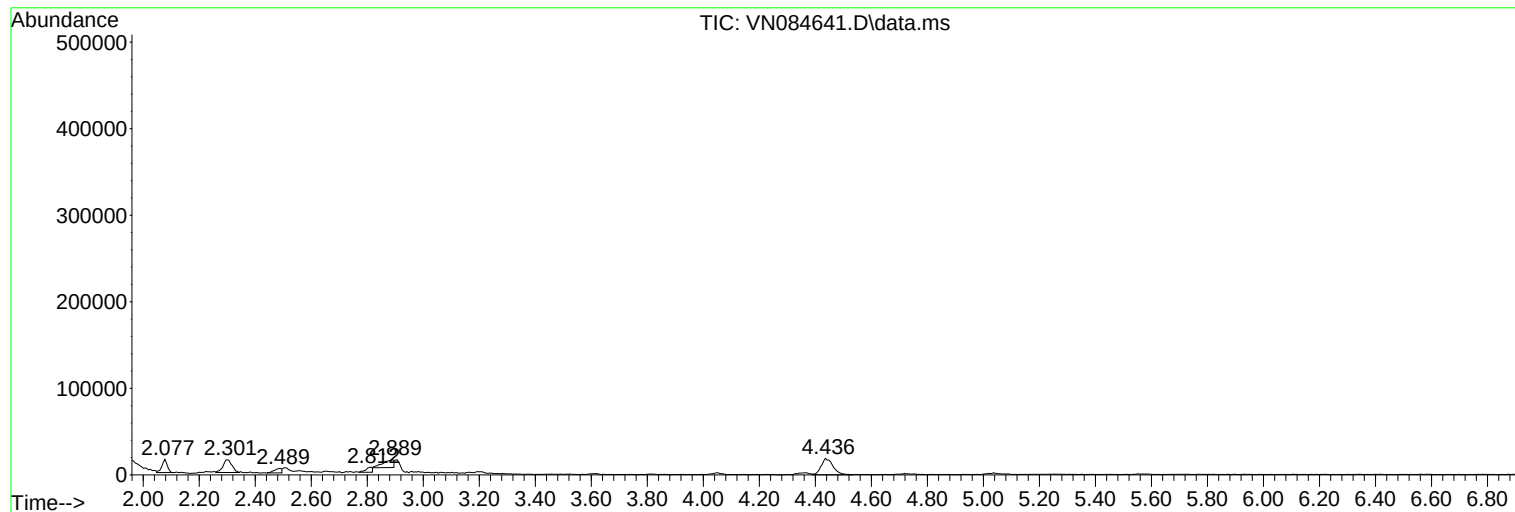
Sum of corrected areas: 5123441

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084641.D
Acq On : 01 Nov 2024 16:19
Operator : JC\MD
Sample : P4665-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-598-600

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084641.D
Acq On : 01 Nov 2024 16:19
Operator : JC\MD
Sample : P4665-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-598-600

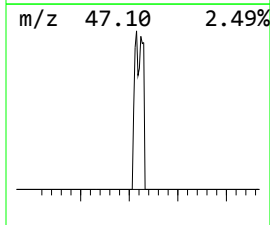
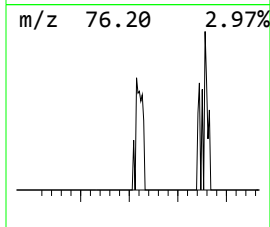
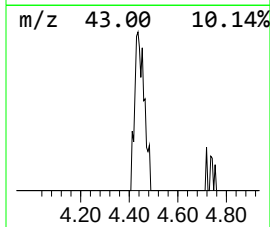
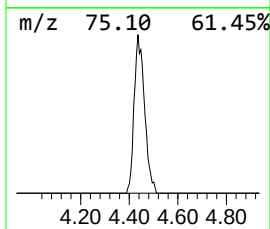
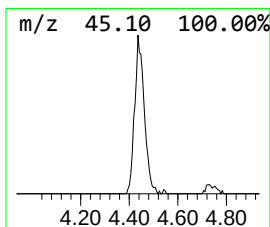
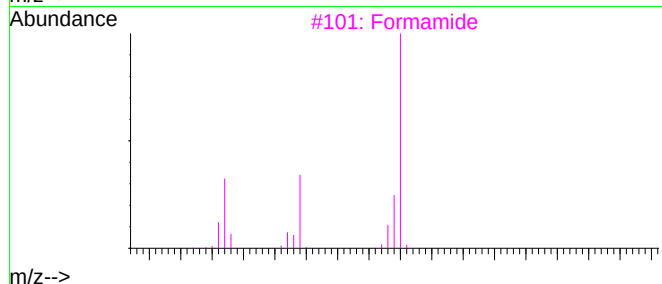
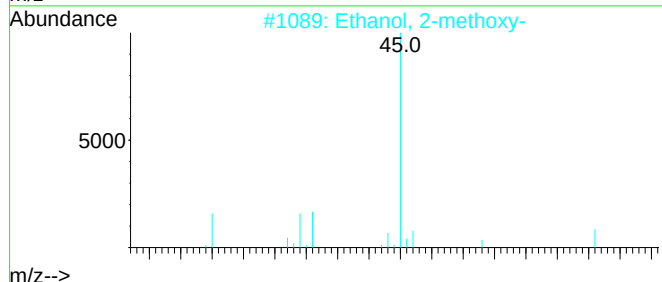
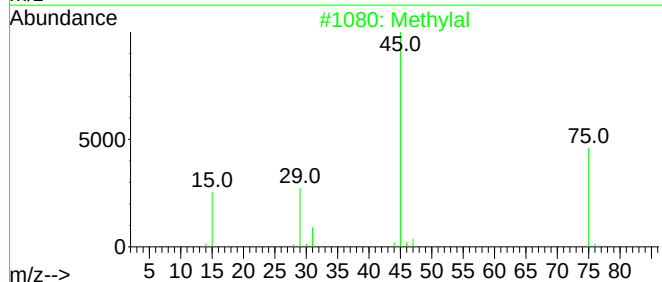
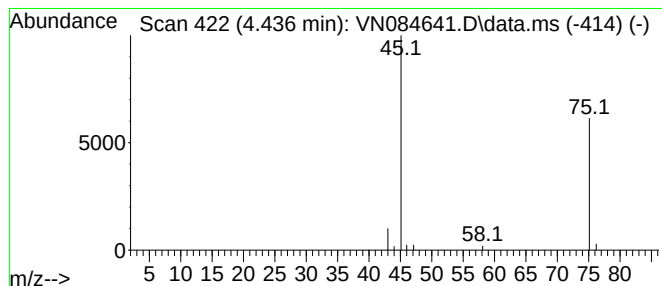
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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

Peak Number 1 unknown4.436 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.436	5.16 ug/l	54724	Pentafluorobenzene	8.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methylal	76	C3H8O2	000109-87-5	40
2	Ethanol, 2-methoxy-	76	C3H8O2	000109-86-4	5
3	Formamide	45	CH3NO	000075-12-7	5
4	(S)-(+)-1,2-Propanediol	76	C3H8O2	004254-15-3	4
5	Ethylamine	45	C2H7N	000075-04-7	4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084641.D
Acq On : 01 Nov 2024 16:19
Operator : JC\MD
Sample : P4665-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-598-600

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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
unknown4.436	4.436	5.2	ug/l	54724	1	8.218	530675	50.0



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.: P4665 SAS No.: P4665 SDG No.: P4665
 Instrument ID: MSVOA_N Calibration Date(s): 10/30/2024 10/30/2024
 Heated Purge: (Y/N) N Calibration Time(s): 11:46 13:45
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF100 = VN084570.D		RRF050 = VN084571.D		RRF020 = VN084572.D		RRF010 = VN084573.D		RRF005 = VN084574.D		RRF001 = VN084575.D	
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD				
Chloromethane	0.658	0.672	0.725	0.871	0.995	1.789	0.952	45.2				
Vinyl Chloride	0.613	0.605	0.623	0.636	0.651	0.581	0.618	4				
Bromomethane	0.292	0.296	0.310	0.336	0.405		0.328	14.2				
Chloroethane	0.378	0.376	0.413	0.426	0.475	0.863	0.488	38.3				
Trichlorofluoromethane	0.971	0.959	1.017	1.022	1.070	1.071	1.018	4.7				
1,1,2-Trichlorotrifluoroethane	0.566	0.557	0.571	0.585	0.588	0.586	0.575	2.2				
1,1-Dichloroethene	0.548	0.538	0.560	0.575	0.552	0.644	0.569	6.8				
Acetone	0.209	0.204	0.213	0.223	0.241	0.338	0.238	21.3				
Carbon Disulfide	1.604	1.603	1.700	1.714	1.784	2.117	1.753	10.9				
Methyl tert-butyl Ether	1.773	1.758	1.802	1.779	1.786	1.572	1.745	4.9				
Methylene Chloride	0.604	0.602	0.633	0.658	0.714	0.600	0.635	7.1				
trans-1,2-Dichloroethene	0.565	0.563	0.596	0.600	0.584	0.601	0.585	2.9				
1,1-Dichloroethane	1.067	1.066	1.114	1.127	1.203	1.033	1.102	5.5				
2-Butanone	0.316	0.315	0.348	0.338	0.370	0.334	0.337	6.1				
Carbon Tetrachloride	0.530	0.514	0.532	0.548	0.537	0.488	0.525	4				
cis-1,2-Dichloroethene	0.675	0.662	0.697	0.685	0.705	0.673	0.683	2.4				
Chloroform	1.099	1.086	1.142	1.154	1.222	1.025	1.121	6				
1,1,1-Trichloroethane	1.000	0.991	1.046	1.073	1.032	0.980	1.021	3.5				
Methylcyclohexane	0.546	0.509	0.495	0.487	0.458	0.371	0.478	12.5				
Benzene	1.494	1.448	1.509	1.507	1.546	1.540	1.507	2.4				
1,2-Dichloroethane	0.488	0.494	0.493	0.492	0.503	0.459	0.488	3.1				
Trichloroethene	0.339	0.335	0.345	0.338	0.341	0.387	0.348	5.7				
1,2-Dichloropropane	0.356	0.348	0.358	0.357	0.373	0.330	0.354	4				
Bromodichloromethane	0.528	0.521	0.526	0.522	0.529	0.530	0.526	0.7				
4-Methyl-2-Pentanone	0.424	0.423	0.416	0.417	0.412	0.344	0.406	7.6				
Toluene	0.923	0.899	0.919	0.902	0.891	0.757	0.882	7.1				
t-1,3-Dichloropropene	0.552	0.543	0.538	0.532	0.547	0.555	0.544	1.6				
cis-1,3-Dichloropropene	0.592	0.581	0.582	0.569	0.584	0.548	0.576	2.7				
1,1,2-Trichloroethane	0.336	0.329	0.334	0.342	0.342	0.309	0.332	3.7				
2-Hexanone	0.314	0.312	0.301	0.297	0.294	0.256	0.296	7.1				

* 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.: P4665 SAS No.: P4665 SDG No.: P4665
 Instrument ID: MSVOA_N Calibration Date(s): 10/30/2024 10/30/2024
 Heated Purge: (Y/N) N Calibration Time(s): 11:46 13:45
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN084570.D		RRF050 = VN084571.D		RRF020 = VN084572.D			
		RRF010 = VN084573.D		RRF005 = VN084574.D		RRF001 = VN084575.D			
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
Dibromochloromethane	0.404	0.394	0.391	0.393	0.377	0.312	0.378	8.9	
Tetrachloroethene	0.326	0.313	0.333	0.347	0.351	0.325	0.333	4.3	
Chlorobenzene	1.068	1.061	1.149	1.123	1.165	1.146	1.119	3.9	
Ethyl Benzene	1.957	1.891	1.928	1.880	1.849	1.697	1.867	4.9	
m/p-Xylenes	0.737	0.728	0.737	0.701	0.683	0.654	0.707	4.8	
o-Xylene	0.703	0.690	0.701	0.679	0.645	0.550	0.661	8.9	
Styrene	1.223	1.205	1.206	1.144	1.093	1.050	1.154	6.1	
Bromoform	0.287	0.295	0.298	0.289	0.302	0.286	0.293	2.3	
Isopropylbenzene	3.558	3.570	3.701	3.605	3.402	3.188	3.504	5.2	
1,1,2,2-Tetrachloroethane	1.052	1.073	1.163	1.190	1.317	1.222	1.170	8.4	
1,3-Dichlorobenzene	1.642	1.668	1.770	1.802	1.884	2.264	1.838	12.3	
1,4-Dichlorobenzene	1.646	1.674	1.782	1.867	1.879	2.773	1.937	21.7	
1,2-Dichlorobenzene	1.601	1.618	1.748	1.732	1.879	2.021	1.766	9.1	
1,2-Dichloroethane-d4	0.689	0.721	0.708	0.722	0.771		0.722	4.2	
Dibromofluoromethane	0.334	0.344	0.326	0.336	0.353		0.338	3.1	
Toluene-d8	1.267	1.303	1.216	1.231	1.217		1.247	3	
4-Bromofluorobenzene	0.481	0.493	0.450	0.451	0.454		0.466	4.3	

* 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 : 82N103024W.M
 Title : SW846 8260
 Last Update : Thu Oct 31 18:45:38 2024
 Response Via : Initial Calibration

Calibration Files

1 =VN084575.D 5 =VN084574.D 10 =VN084573.D 20 =VN084572.D 50 =VN084571.D 100 =VN084570.

D

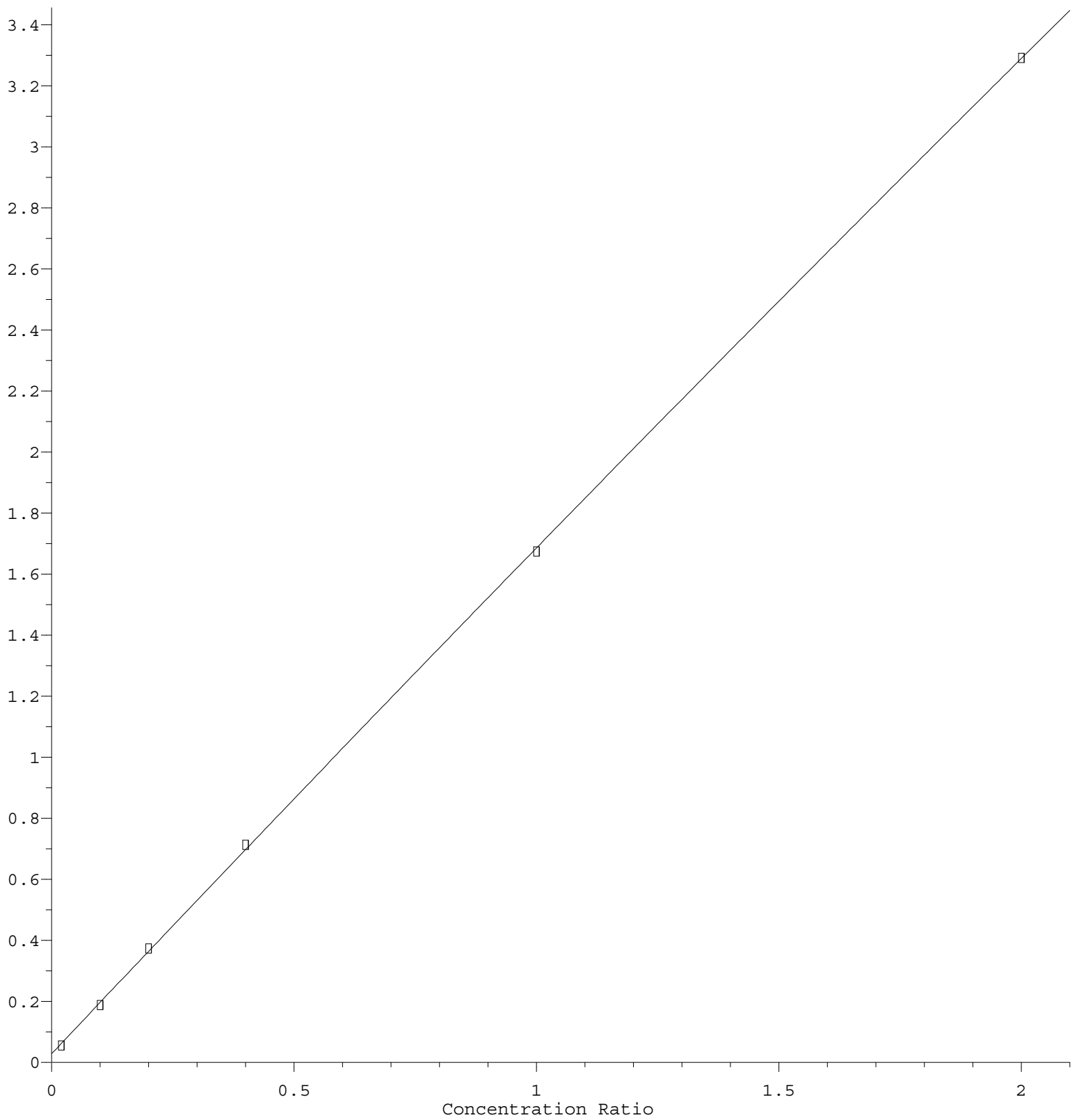
	Compound	1	5	10	20	50	100	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.581	0.594	0.598	0.552	0.552	0.571	0.575	3.43
3) P	Chloromethane	1.789	0.995	0.871	0.725	0.672	0.658	0.952	45.21
4) C	Vinyl Chloride	0.581	0.651	0.636	0.623	0.605	0.613	0.618	3.98#
5) T	Bromomethane		0.405	0.336	0.310	0.296	0.292	0.328	14.16
6) T	Chloroethane	0.863	0.475	0.426	0.413	0.376	0.378	0.488	38.29
7) T	Trichlorofluor...	1.071	1.070	1.022	1.017	0.959	0.971	1.018	4.66
8) T	Diethyl Ether	0.358	0.371	0.364	0.359	0.353	0.351	0.359	2.08
9) T	1,1,2-Trichlor...	0.586	0.588	0.585	0.571	0.557	0.566	0.575	2.23
10) T	Methyl Iodide		0.817	0.800	0.764	0.736	0.728	0.769	5.08
11) T	Tert butyl alc...		0.118	0.100	0.090	0.086	0.082	0.095	15.11
12) CM	1,1-Dichloroet...	0.644	0.552	0.575	0.560	0.538	0.548	0.569	6.78#
13) T	Acrolein		0.104	0.096	0.101	0.088	0.086	0.095	8.16
14) T	Allyl chloride	0.849	0.977	0.925	0.939	0.917	0.934	0.923	4.56
15) T	Acrylonitrile	0.263	0.294	0.282	0.282	0.271	0.264	0.276	4.42
16) T	Acetone	0.338	0.241	0.223	0.213	0.204	0.209	0.238	21.31
17) T	Carbon Disulfide	2.117	1.784	1.714	1.700	1.603	1.604	1.753	10.90
18) T	Methyl Acetate	2.291	1.266	1.044	0.954	0.749	0.731	1.172	49.71
19) T	Methyl tert-bu...	1.572	1.786	1.779	1.802	1.758	1.773	1.745	4.92
20) T	Methylene Chlo...	0.600	0.714	0.658	0.633	0.602	0.604	0.635	7.09
21) T	trans-1,2-Dich...	0.601	0.584	0.600	0.596	0.563	0.565	0.585	2.94
22) T	Diisopropyl ether	1.623	1.843	1.909	1.921	1.855	1.858	1.835	5.91
23) T	Vinyl Acetate	1.090	1.297	1.298	1.306	1.299	1.303	1.265	6.81
24) P	1,1-Dichloroet...	1.033	1.203	1.127	1.114	1.066	1.067	1.102	5.49
25) T	2-Butanone	0.334	0.370	0.338	0.348	0.315	0.316	0.337	6.14
26) T	2,2-Dichloropr...	0.933	0.959	0.978	0.974	0.941	0.968	0.959	1.93
27) T	cis-1,2-Dichlo...	0.673	0.705	0.685	0.697	0.662	0.675	0.683	2.38
28) T	Bromochloromet...	0.429	0.408	0.415	0.388	0.511	0.483	0.439	10.79
29) T	Tetrahydrofuran	0.197	0.236	0.234	0.231	0.222	0.221	0.224	6.52
30) C	Chloroform	1.025	1.222	1.154	1.142	1.086	1.099	1.121	6.02#
31) T	Cyclohexane		1.093	1.043	0.956	0.938	0.956	0.997	6.75
32) T	1,1,1-Trichlor...	0.980	1.032	1.073	1.046	0.991	1.000	1.021	3.53
33) S	1,2-Dichloroet...		0.771	0.722	0.708	0.721	0.689	0.722	4.20
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.353	0.336	0.326	0.344	0.334	0.338	3.07
36) T	1,1-Dichloropr...	0.474	0.477	0.468	0.471	0.451	0.476	0.469	2.02
37) T	Ethyl Acetate	0.410	0.466	0.404	0.429	0.422	0.424	0.426	5.14
38) T	Carbon Tetrach...	0.488	0.537	0.548	0.532	0.514	0.530	0.525	4.04
39) T	Methylcyclohexane	0.371	0.458	0.487	0.495	0.509	0.546	0.478	12.46
40) TM	Benzene	1.540	1.546	1.507	1.509	1.448	1.494	1.507	2.35
41) T	Methacrylonitrile	0.184	0.238	0.232	0.239	0.246	0.235	0.229	9.89
42) TM	1,2-Dichloroet...	0.459	0.503	0.492	0.493	0.494	0.488	0.488	3.10
43) T	Isopropyl Acetate	1.297	1.009	0.895	0.820	0.756	0.786	0.927	21.85
44) TM	Trichloroethene	0.387	0.341	0.338	0.345	0.335	0.339	0.348	5.66
45) C	1,2-Dichloropr...	0.330	0.373	0.357	0.358	0.348	0.356	0.354	3.95#
46) T	Dibromomethane	0.247	0.260	0.244	0.257	0.244	0.245	0.250	2.89
47) T	Bromodichlorom...	0.530	0.529	0.522	0.526	0.521	0.528	0.526	0.70
48) T	Methyl methacr...	0.277	0.335	0.336	0.339	0.346	0.355	0.331	8.32
49) T	1,4-Dioxane	0.005	0.006	0.006	0.006	0.006	0.006	0.006	8.90
50) S	Toluene-d8		1.217	1.231	1.216	1.303	1.267	1.247	3.02
51) T	4-Methyl-2-Pen...	0.344	0.412	0.417	0.416	0.423	0.424	0.406	7.59
52) CM	Toluene	0.757	0.891	0.902	0.919	0.899	0.923	0.882	7.07#
53) T	t-1,3-Dichloro...	0.555	0.547	0.532	0.538	0.543	0.552	0.544	1.60
54) T	cis-1,3-Dichlo...	0.548	0.584	0.569	0.582	0.581	0.592	0.576	2.69
55) T	1,1,2-Trichlor...	0.309	0.342	0.342	0.334	0.329	0.336	0.332	3.72

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\										
Method File : 82N103024W.M										
56)	T	Ethyl methacry...	0.371	0.449	0.477	0.495	0.539	0.550	0.480	13.66
57)	T	1,3-Dichloropr...	0.527	0.598	0.573	0.579	0.565	0.577	0.570	4.16
58)	T	2-Chloroethyl ...	0.167	0.202	0.214	0.229	0.262	0.275	0.225	17.62
59)	T	2-Hexanone	0.256	0.294	0.297	0.301	0.312	0.314	0.296	7.11
60)	T	Dibromochlorom...	0.312	0.377	0.393	0.391	0.394	0.404	0.378	8.92
61)	T	1,2-Dibromoethane	0.336	0.355	0.335	0.341	0.333	0.340	0.340	2.38
62)	S	4-Bromofluorob...	0.454	0.451	0.450	0.493	0.481	0.466		4.26
-----ISTD-----										
63)	I	Chlorobenzene-d5								
64)	T	Tetrachloroethene	0.325	0.351	0.347	0.333	0.313	0.326	0.333	4.29
65)	PM	Chlorobenzene	1.146	1.164	1.123	1.149	1.061	1.068	1.119	3.93
66)	T	1,1,1,2-Tetrac...	0.399	0.404	0.390	0.392	0.375	0.375	0.389	3.01
67)	C	Ethyl Benzene	1.697	1.849	1.880	1.928	1.891	1.957	1.867	4.90#
68)	T	m/p-Xylenes	0.654	0.683	0.701	0.737	0.728	0.737	0.707	4.76
69)	T	o-Xylene	0.550	0.645	0.679	0.701	0.690	0.703	0.661	8.89
70)	T	Styrene	1.050	1.093	1.144	1.206	1.205	1.223	1.154	6.11
71)	P	Bromoform	0.286	0.302	0.289	0.298	0.295	0.287	0.293	2.26
-----ISTD-----										
72)	I	1,4-Dichlorobenzen...								
73)	T	Isopropylbenzene	3.188	3.402	3.605	3.701	3.570	3.558	3.504	5.21
74)	T	N-amyl acetate	1.223	1.572	1.527	1.552	1.528	1.546	1.491	8.88
75)	P	1,1,2,2-Tetrac...	1.222	1.317	1.190	1.163	1.073	1.052	1.170	8.39
76)	T	1,2,3-Trichlor...	1.246	1.013	1.020	0.958	0.887	0.873	0.999	13.58
77)	T	Bromobenzene	1.114	0.931	0.943	0.921	0.883	0.860	0.942	9.52
78)	T	n-propylbenzene	3.621	4.041	4.188	4.316	4.236	4.233	4.106	6.19
79)	T	2-Chlorotoluene	2.601	2.746	2.700	2.848	2.621	2.581	2.683	3.82
80)	T	1,3,5-Trimethy...	2.418	2.765	3.038	3.099	3.068	3.037	2.904	9.19
81)	T	trans-1,4-Dich...	0.431	0.446	0.423	0.401	0.406	0.421		4.33
82)	T	4-Chlorotoluene	3.049	2.848	2.822	2.838	2.716	2.667	2.823	4.70
83)	T	tert-Butylbenzene	1.893	2.271	2.461	2.648	2.531	2.617	2.403	11.81
84)	T	1,2,4-Trimethy...	2.579	2.766	3.075	3.265	3.148	3.151	2.997	8.86
85)	T	sec-Butylbenzene	2.962	3.145	3.517	3.608	3.538	3.600	3.395	8.04
86)	T	p-Isopropyltol...	2.218	2.518	2.843	3.003	3.050	3.075	2.784	12.43
87)	T	1,3-Dichlorobe...	2.264	1.884	1.802	1.770	1.668	1.642	1.838	12.33
88)	T	1,4-Dichlorobe...	2.773	1.879	1.867	1.782	1.674	1.646	1.937	21.72
89)	T	n-Butylbenzene	2.747	2.454	2.457	2.623	2.619	2.728	2.605	4.88
90)	T	Hexachloroethane	0.681	0.626	0.633	0.617	0.589	0.578	0.621	5.88
91)	T	1,2-Dichlorobe...	2.021	1.879	1.732	1.748	1.618	1.601	1.766	9.07
92)	T	1,2-Dibromo-3-...	0.272	0.274	0.226	0.229	0.217	0.204	0.237	12.28
93)	T	1,2,4-Trichlor...	1.353	0.956	0.881	0.895	0.865	0.852	0.967	19.90
94)	T	Hexachlorobuta...	0.551	0.438	0.403	0.426	0.369	0.359	0.425	16.33
95)	T	Naphthalene	3.355	2.788	2.710	2.953	2.780	2.778	2.894	8.29
96)	T	1,2,3-Trichlor...	1.189	0.939	0.877	0.953	0.841	0.832	0.939	14.09

(#) = Out of Range

1,4-Dichlorobenzene

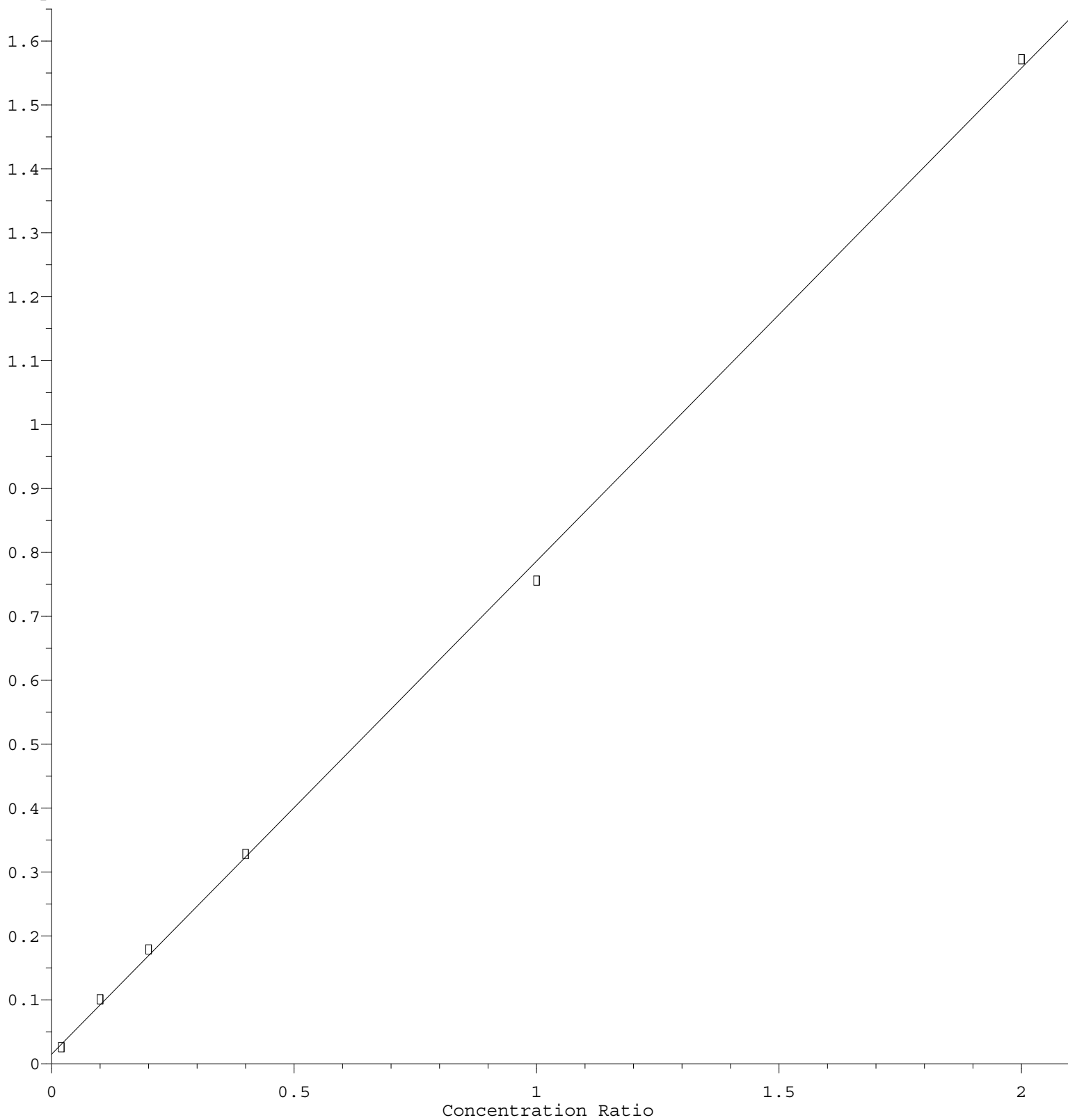
Response Ratio



$R = -2.647e-002 A^2 + 1.683e+000 A + 2.851e-002$
 Coef of Det (r^2) = 0.999927 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
 Calibration Table Last Updated: Thu Oct 31 18:45:38 2024

Isopropyl Acetate

Response Ratio



$$\text{Response} = 7.716\text{e-}001 * \text{Amt} + 1.519\text{e-}002$$

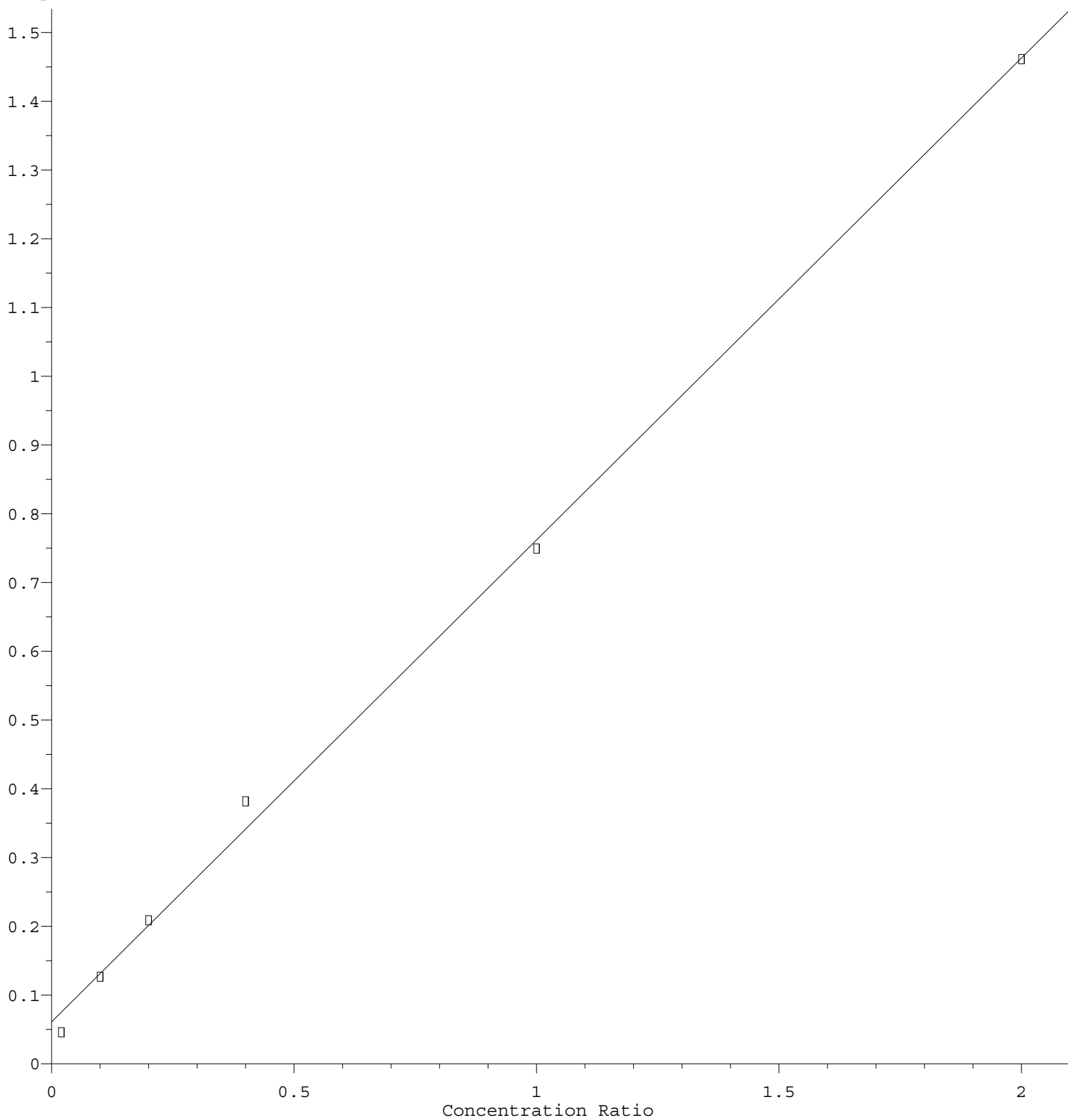
Coef of Det (r^2) = 0.999234 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M

Calibration Table Last Updated: Thu Oct 31 18:45:38 2024

Methyl Acetate

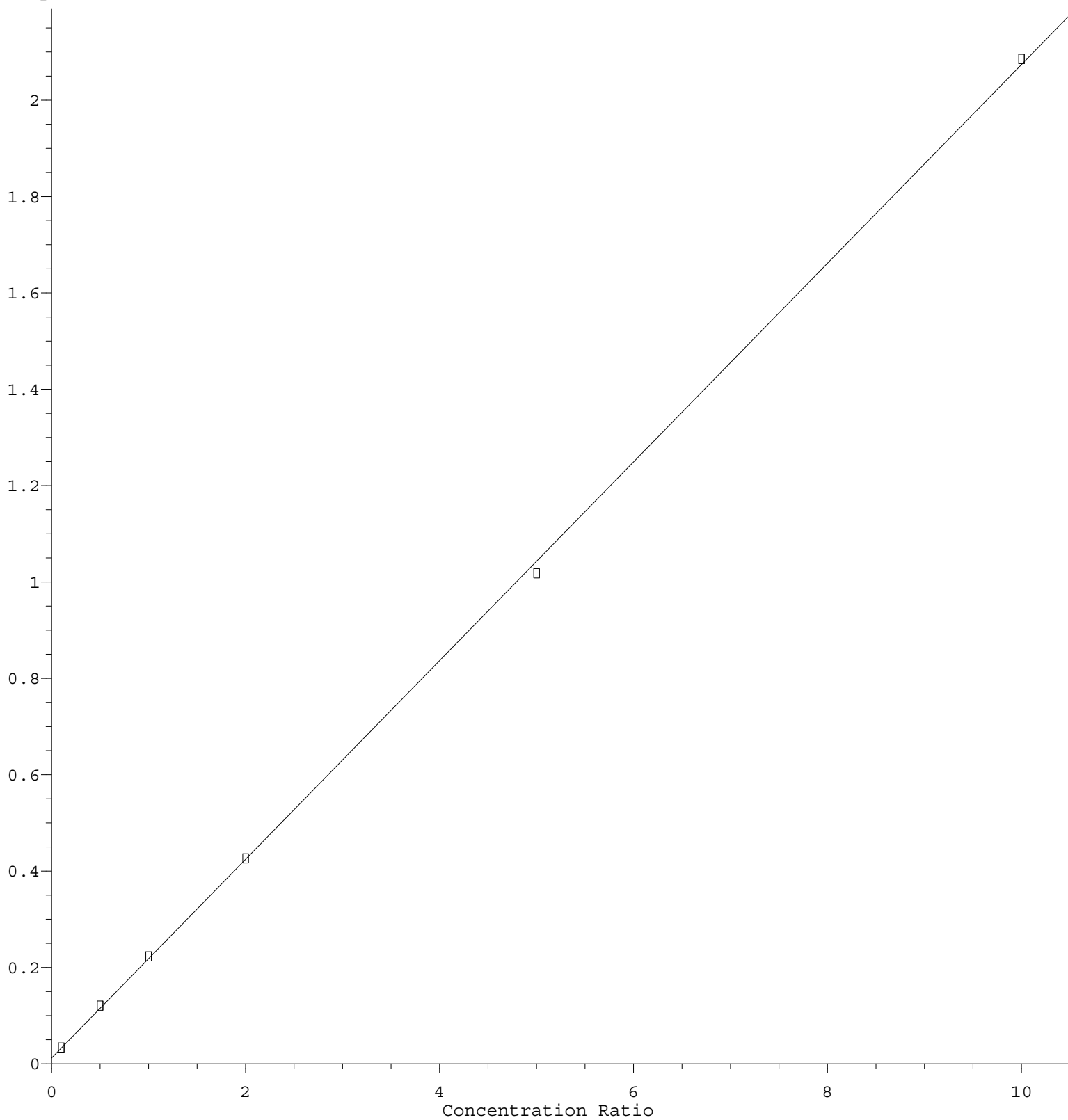
Response Ratio



Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
Calibration Table Last Updated: Thu Oct 31 18:45:38 2024

Acetone

Response Ratio



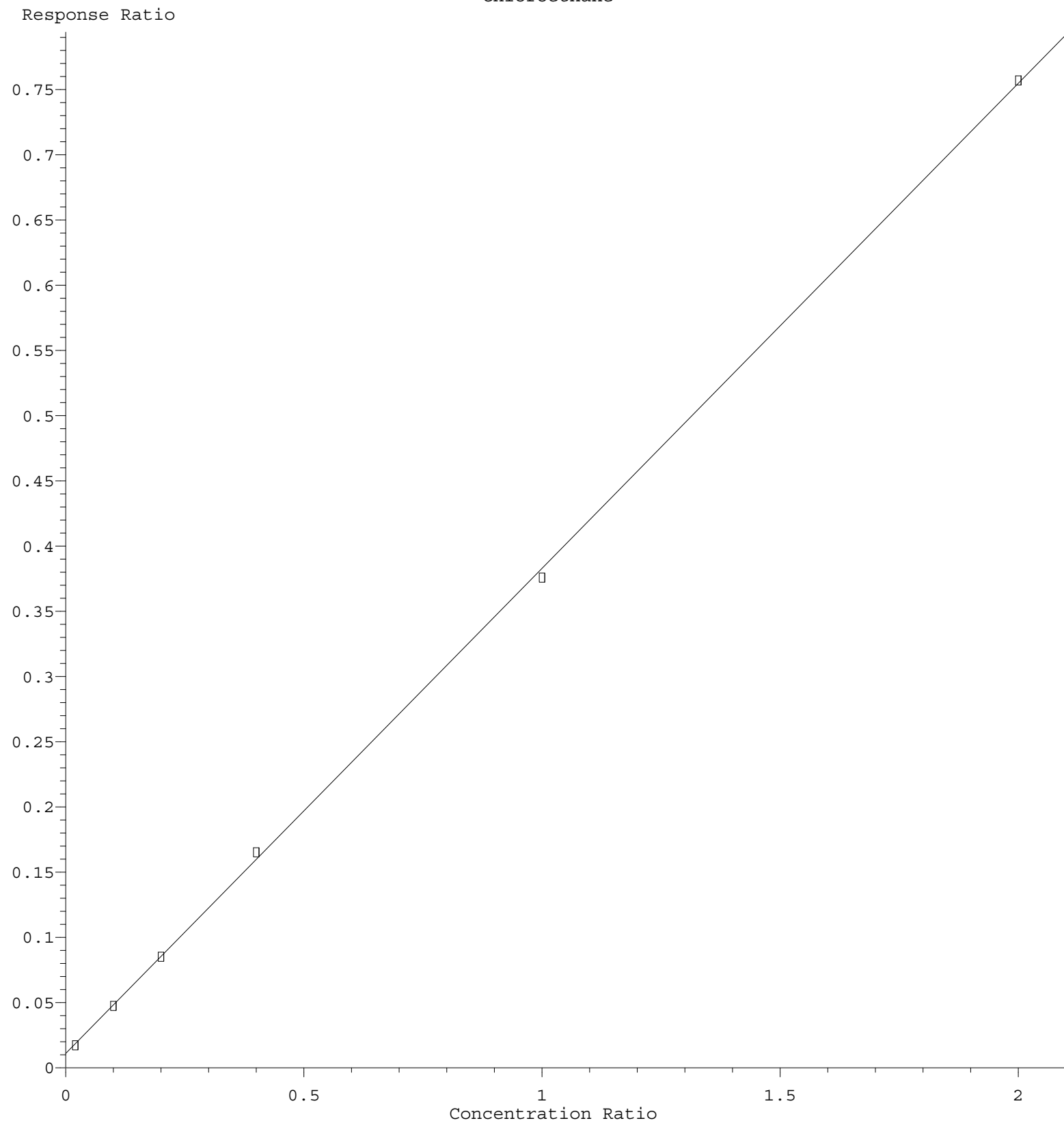
$$\text{Response} = 2.062\text{e-}001 * \text{Amt} + 1.190\text{e-}002$$

Coef of Det (r^2) = 0.999735 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M

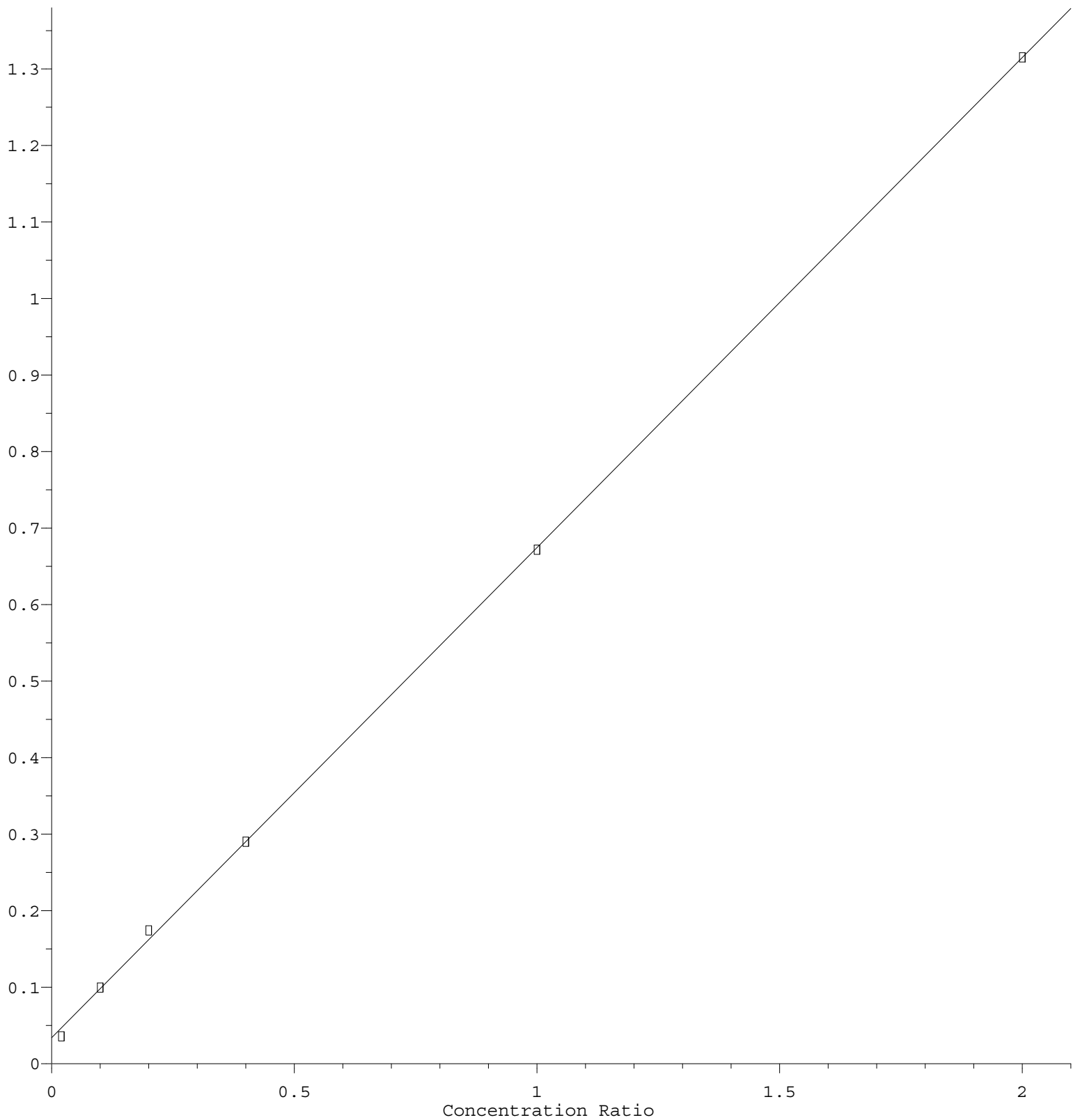
Calibration Table Last Updated: Thu Oct 31 18:45:38 2024

Chloroethane



Chloromethane

Response Ratio



$$\text{Response} = 6.405\text{e-}001 * \text{Amt} + 3.399\text{e-}002$$

Coef of Det (r^2) = 0.999766 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M

Calibration Table Last Updated: Thu Oct 31 18:45:38 2024

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084570.D
 Acq On : 30 Oct 2024 11:46
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:18:26 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M

Quant Title : SW846 8260

QLast Update : Thu Oct 31 18:18:08 2024

Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	187429	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	309230	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	282514	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	142702	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	258269	95.404	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	190.800%#
35) Dibromofluoromethane	8.165	113	206417	98.617	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	197.240%#
50) Toluene-d8	10.565	98	783727	101.646	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	203.300%#
62) 4-Bromofluorobenzene	12.847	95	297647	103.292	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	206.580%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	214094	99.364	ug/l	93
3) Chloromethane	2.359	50	246492	100.015	ug/l	97
4) Vinyl Chloride	2.512	62	229760	99.144	ug/l	99
5) Bromomethane	2.901	94	109436	89.128	ug/l	97
6) Chloroethane	3.071	64	141883	100.310	ug/l	98
7) Trichlorofluoromethane	3.465	101	363937	95.335	ug/l	100
8) Diethyl Ether	3.953	74	131399	97.575	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.347	101	212244	98.394	ug/l	99
10) Methyl Iodide	4.577	142	272990	94.692	ug/l	96
11) Tert butyl alcohol	5.547	59	153595	429.840	ug/l	100
12) 1,1-Dichloroethene	4.324	96	205332	96.200	ug/l	98
13) Acrolein	4.171	56	161607	453.545	ug/l	100
14) Allyl chloride	5.012	41	350014	101.116	ug/l	92
15) Acrylonitrile	5.712	53	494070	477.613	ug/l	100
16) Acetone	4.424	43	390888	502.753	ug/l	98
17) Carbon Disulfide	4.700	76	601202	91.464	ug/l	99
18) Methyl Acetate	5.018	43	273870	99.857	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	664800	101.618	ug/l	99
20) Methylene Chloride	5.271	84	226231	95.017	ug/l	90
21) trans-1,2-Dichloroethene	5.777	96	211649	96.569	ug/l	93
22) Diisopropyl ether	6.665	45	696527	101.268	ug/l	99
23) Vinyl Acetate	6.600	43	2441301	514.697	ug/l	99
24) 1,1-Dichloroethane	6.559	63	399999	96.866	ug/l	98
25) 2-Butanone	7.483	43	591863	468.634	ug/l	98
26) 2,2-Dichloropropane	7.483	77	362927	100.979	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	252932	98.835	ug/l	96
28) Bromochloromethane	7.812	49	180881	109.944	ug/l	96
29) Tetrahydrofuran	7.835	42	415033	495.347	ug/l	97
30) Chloroform	7.959	83	412084	98.045	ug/l	100
31) Cyclohexane	8.253	56	358350	95.881	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	374940	98.012	ug/l	98
36) 1,1-Dichloropropene	8.365	75	294131	101.323	ug/l	99
37) Ethyl Acetate	7.559	43	262200	99.553	ug/l	98
38) Carbon Tetrachloride	8.359	117	327651	100.981	ug/l	98
39) Methylcyclohexane	9.600	83	337677	114.344	ug/l	97
40) Benzene	8.600	78	924038	99.119	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084570.D
 Acq On : 30 Oct 2024 11:46
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:18:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:18:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	145041	102.406	ug/l	95
42) 1,2-Dichloroethane	8.665	62	301932	100.005	ug/l	100
43) Isopropyl Acetate	8.688	43	485962	100.857	ug/l	99
44) Trichloroethene	9.347	130	209438	97.413	ug/l	98
45) 1,2-Dichloropropane	9.618	63	220258	100.718	ug/l	95
46) Dibromomethane	9.706	93	151661	98.281	ug/l	98
47) Bromodichloromethane	9.888	83	326466	100.364	ug/l #	96
48) Methyl methacrylate	9.677	41	219838	107.249	ug/l	98
49) 1,4-Dioxane	9.694	88	76189	2097.505	ug/l #	80
51) 4-Methyl-2-Pentanone	10.447	43	1312148	522.607	ug/l	99
52) Toluene	10.629	92	570832	104.696	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	341196	101.334	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	366358	102.804	ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	207689	101.124	ug/l	97
56) Ethyl methacrylate	10.871	69	340367	114.573	ug/l	97
57) 1,3-Dichloropropane	11.165	76	357131	101.320	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	849817	611.330	ug/l	98
59) 2-Hexanone	11.194	43	971064	531.346	ug/l	97
60) Dibromochloromethane	11.359	129	249733	106.691	ug/l	99
61) 1,2-Dibromoethane	11.471	107	210043	99.870	ug/l	100
64) Tetrachloroethene	11.100	164	184478	98.169	ug/l	96
65) Chlorobenzene	11.888	112	603595	95.500	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.959	131	212055	96.458	ug/l	99
67) Ethyl Benzene	11.965	91	1106035	104.837	ug/l	99
68) m/p-Xylenes	12.070	106	832448	208.419	ug/l	99
69) o-Xylene	12.400	106	397449	106.372	ug/l	100
70) Styrene	12.412	104	691175	106.042	ug/l	98
71) Bromoform	12.582	173	162189	98.044	ug/l #	97
73) Isopropylbenzene	12.694	105	1015352	101.533	ug/l	100
74) N-amyl acetate	12.494	43	441232	103.666	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	300162	89.924	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	249062m	88.446	ug/l	
77) Bromobenzene	12.982	156	245558	91.341	ug/l	94
78) n-propylbenzene	13.035	91	1208185	103.100	ug/l	98
79) 2-Chlorotoluene	13.123	91	736738	96.217	ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	866736	104.573	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	115847	96.347	ug/l	98
82) 4-Chlorotoluene	13.217	91	761196	94.462	ug/l	99
83) tert-Butylbenzene	13.435	119	746926	108.888	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	899374	105.136	ug/l	99
85) sec-Butylbenzene	13.617	105	1027413	106.032	ug/l	99
86) p-Isopropyltoluene	13.729	119	877717	110.451	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	468620	89.320	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	469714	100.067	ug/l	98
89) n-Butylbenzene	14.053	91	778487	104.727	ug/l	100
90) Hexachloroethane	14.335	117	165030	93.123	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	456925	90.631	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	58247	86.136	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	243087	88.091	ug/l	99
94) Hexachlorobutadiene	15.500	225	102558	84.631	ug/l	99
95) Naphthalene	15.641	128	792903	95.997	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	237515	88.667	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084570.D
Acq On : 30 Oct 2024 11:46
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:18:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

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

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

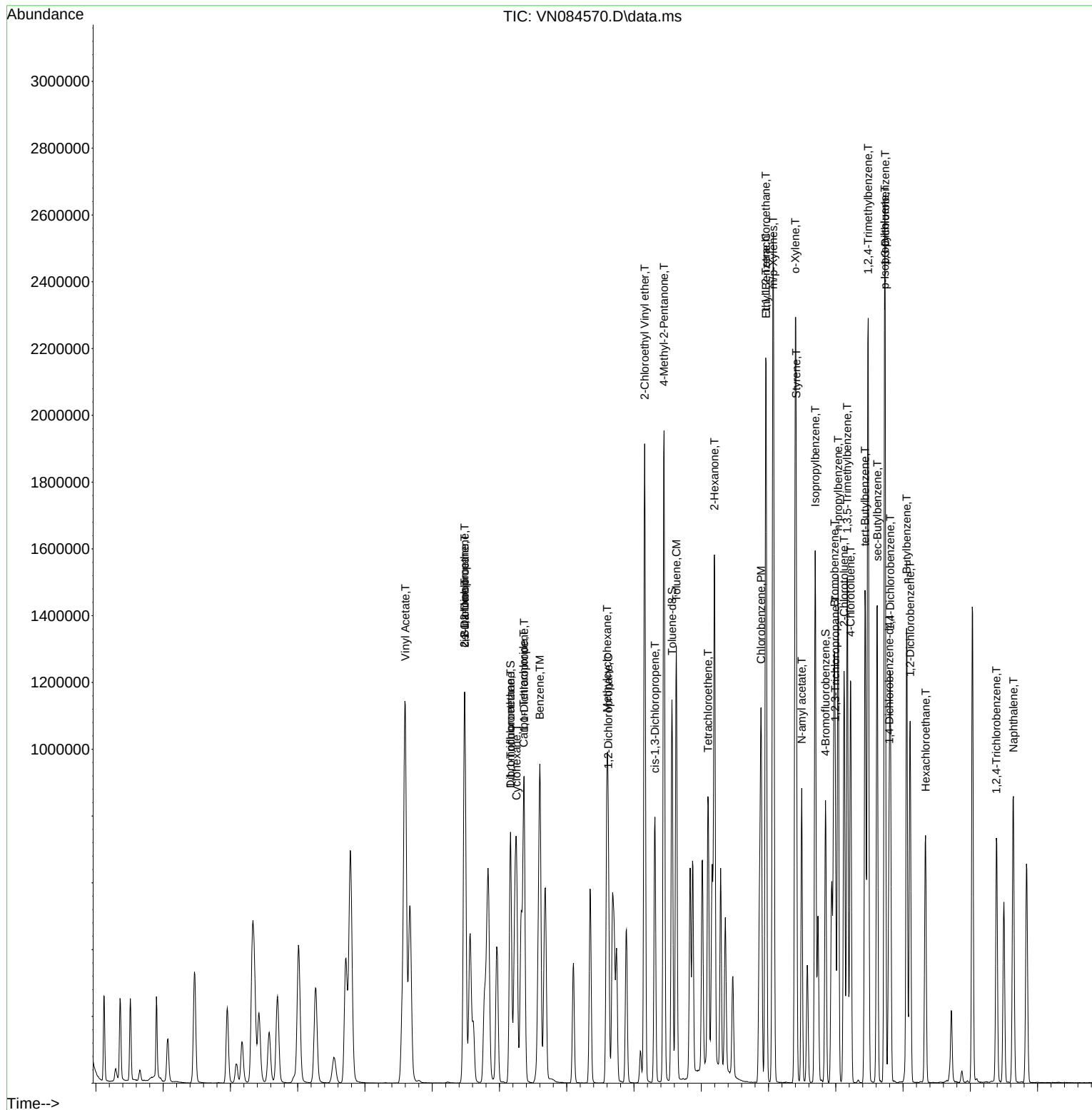
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\  
Data File : VN084570.D  
Acq On    : 30 Oct 2024   11:46  
Operator  : JC\MD  
Sample    : VSTDICC100  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 1   Sample Multiplier: 1
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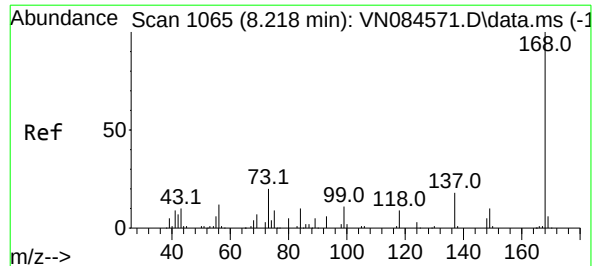
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

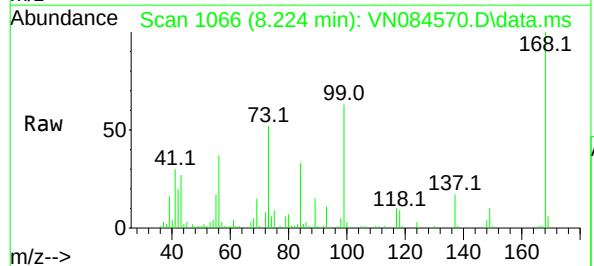
Quant Time: Oct 31 18:18:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084570.D
Acq: 30 Oct 2024 11:46

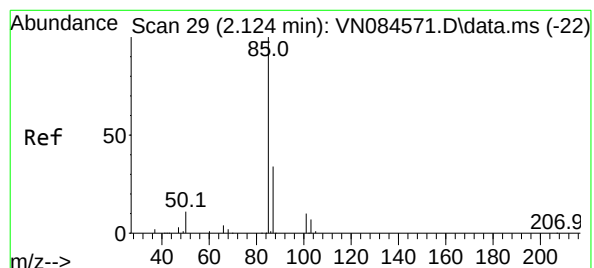
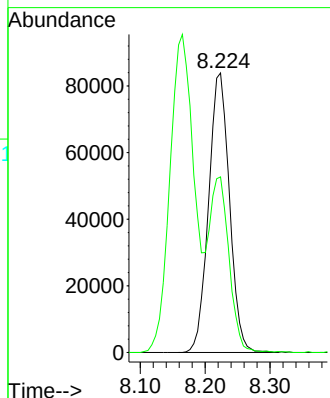
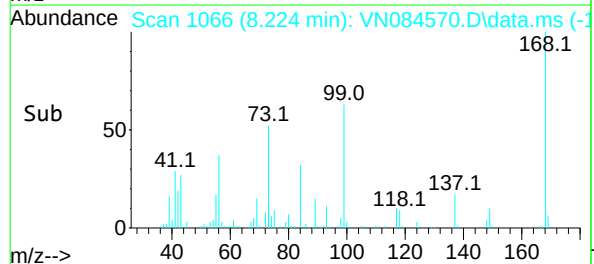
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100



Tgt Ion: 168 Resp: 187429
Ion Ratio Lower Upper
168 100
99 62.5 54.2 81.2

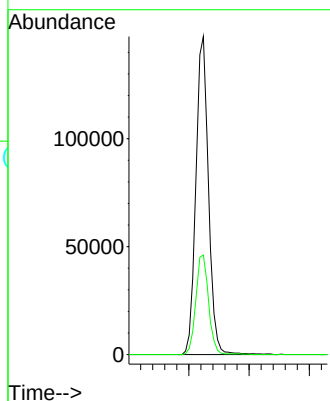
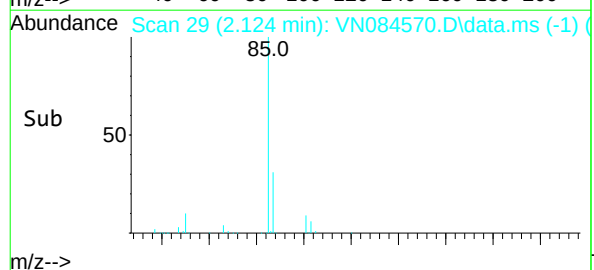
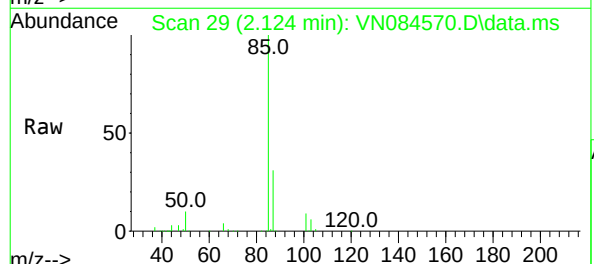
Manual Integrations
APPROVED

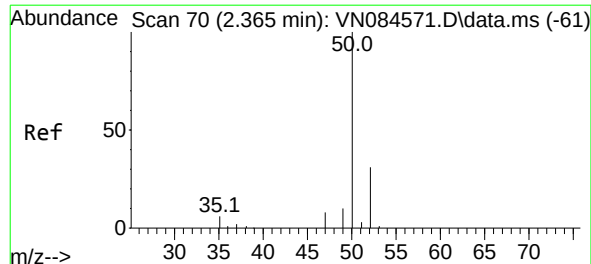
Reviewed By : Semsettin Yesilyurt 11/04/2024
Supervised By : Mahesh Dadoda 11/04/2024



#2
Dichlorodifluoromethane
Concen: 99.364 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN084570.D
Acq: 30 Oct 2024 11:46

Tgt Ion: 85 Resp: 214094
Ion Ratio Lower Upper
85 100
87 31.3 17.6 52.9





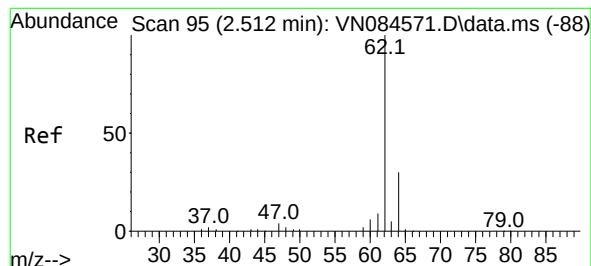
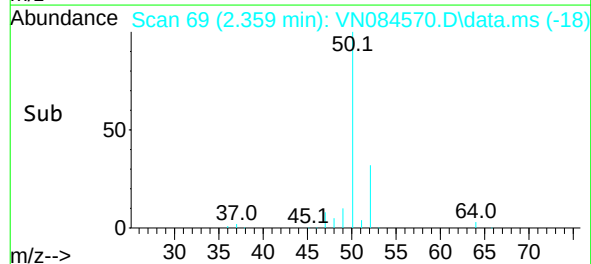
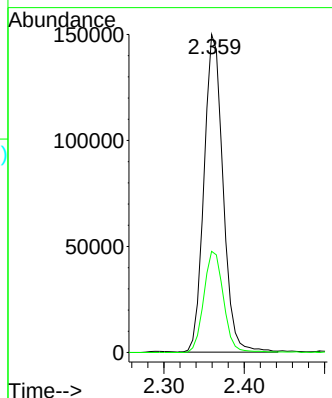
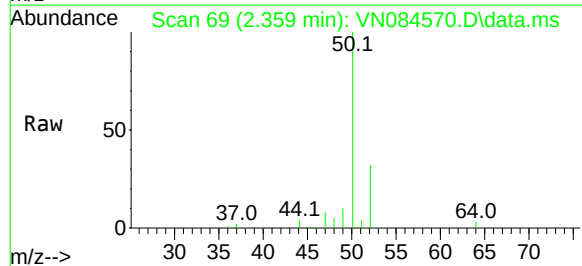
#3
Chloromethane
Concen: 100.015 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN084570.D
Acq: 30 Oct 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 246492
Ion Ratio Lower Upper
50 100
52 31.8 26.8 40.2

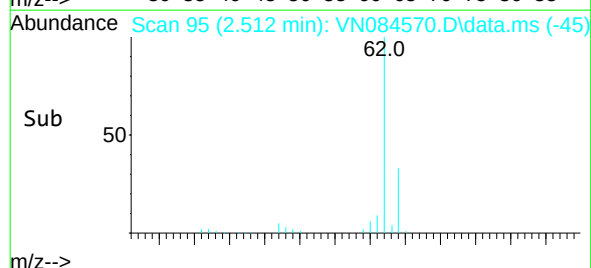
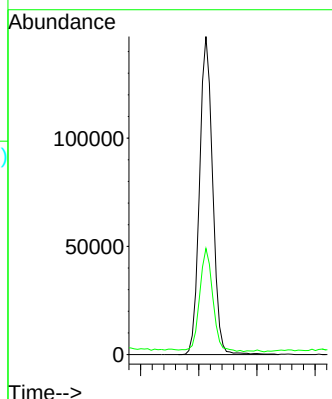
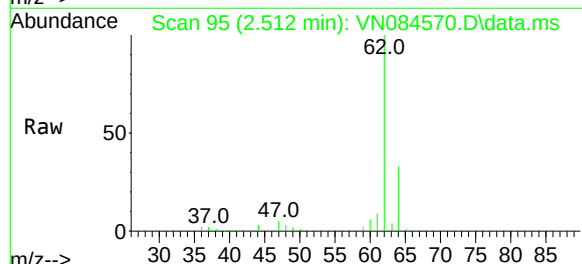
Manual Integrations
APPROVED

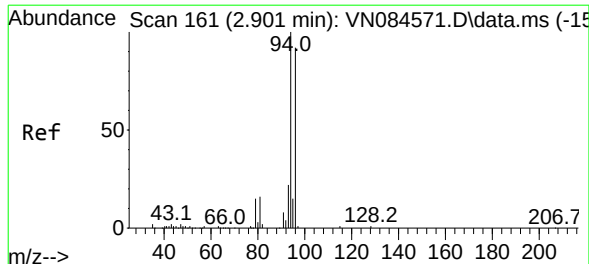
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#4
Vinyl Chloride
Concen: 99.144 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.006 min
Lab File: VN084570.D
Acq: 30 Oct 2024 11:46

Tgt Ion: 62 Resp: 229760
Ion Ratio Lower Upper
62 100
64 32.1 26.2 39.4





#5

Bromomethane

Concen: 89.128 ug/l

RT: 2.901 min Scan# 161

Delta R.T. -0.052 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 94 Resp: 109436

Ion Ratio Lower Upper

94 100

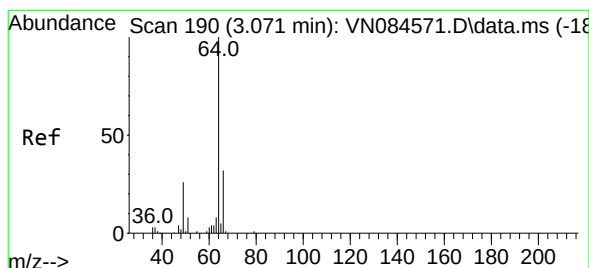
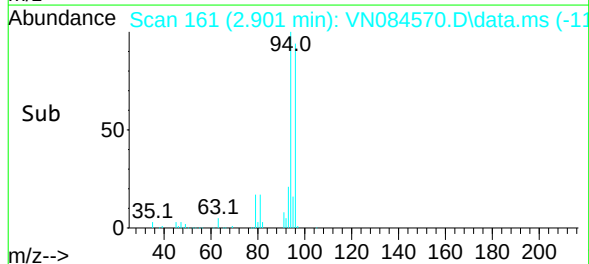
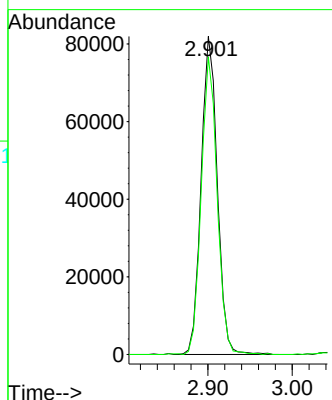
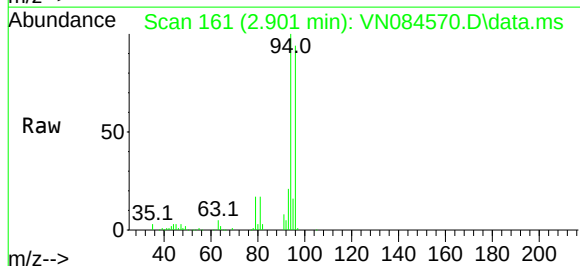
96 93.6 72.9 109.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#6

Chloroethane

Concen: 100.310 ug/l

RT: 3.071 min Scan# 190

Delta R.T. -0.047 min

Lab File: VN084570.D

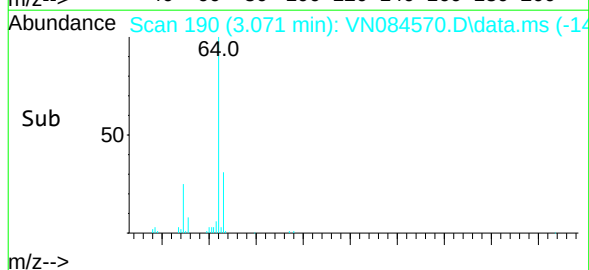
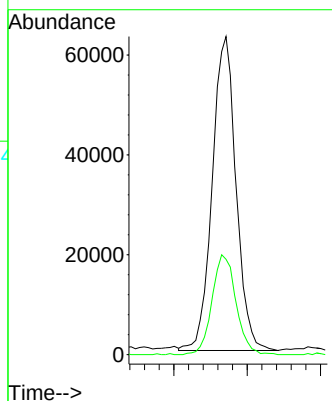
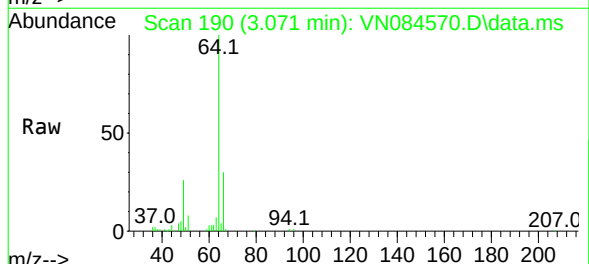
Acq: 30 Oct 2024 11:46

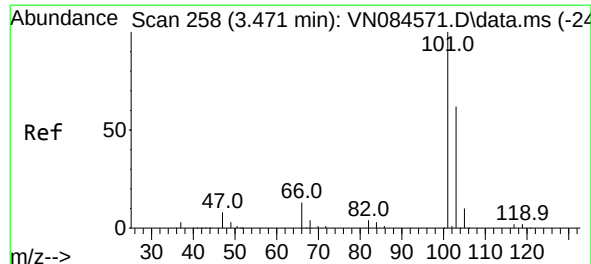
Tgt Ion: 64 Resp: 141883

Ion Ratio Lower Upper

64 100

66 30.4 23.5 35.3





#7

Trichlorofluoromethane

Concen: 95.335 ug/l

RT: 3.465 min Scan# 25

Delta R.T. -0.030 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:101 Resp: 363937

Ion Ratio Lower Upper

101 100

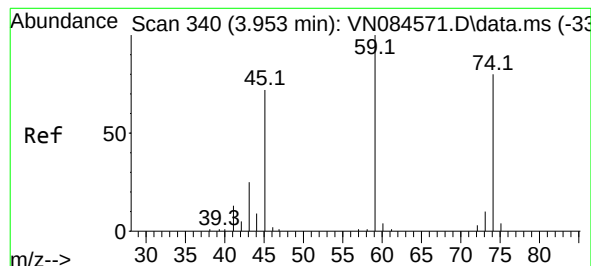
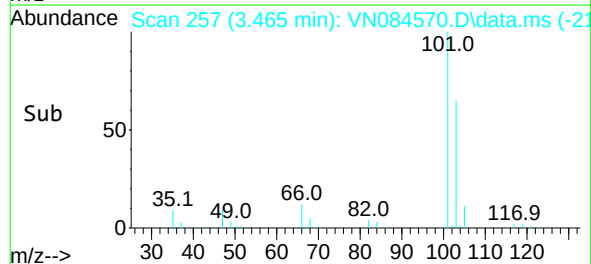
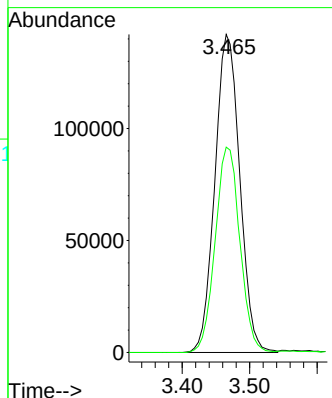
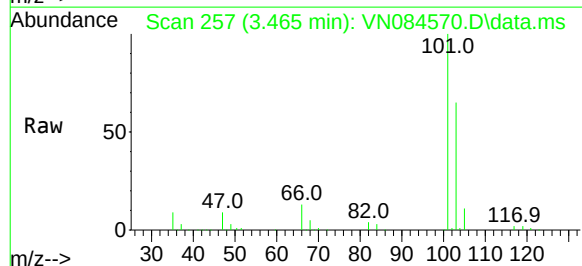
103 64.6 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#8

Diethyl Ether

Concen: 97.575 ug/l

RT: 3.953 min Scan# 340

Delta R.T. -0.006 min

Lab File: VN084570.D

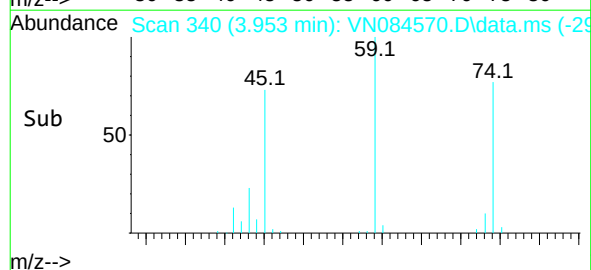
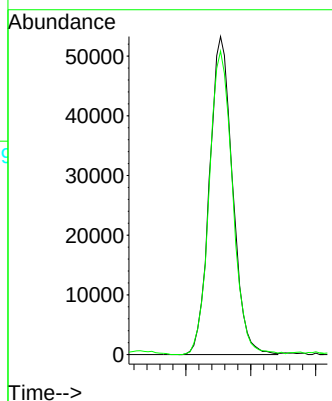
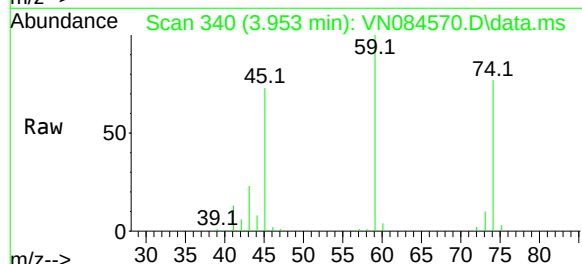
Acq: 30 Oct 2024 11:46

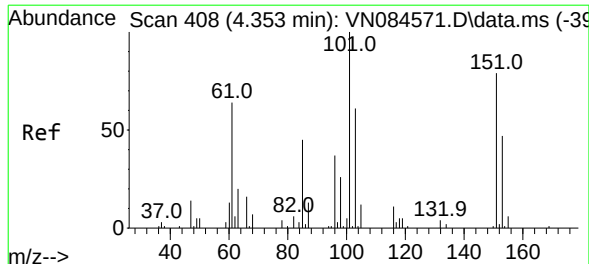
Tgt Ion: 74 Resp: 131399

Ion Ratio Lower Upper

74 100

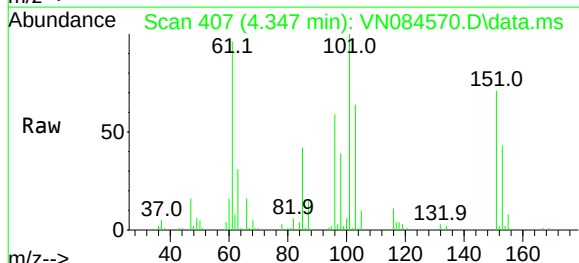
45 96.8 47.7 143.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 98.394 ug/l
RT: 4.347 min Scan# 408
Delta R.T. -0.024 min
Lab File: VN084570.D
Acq: 30 Oct 2024 11:46

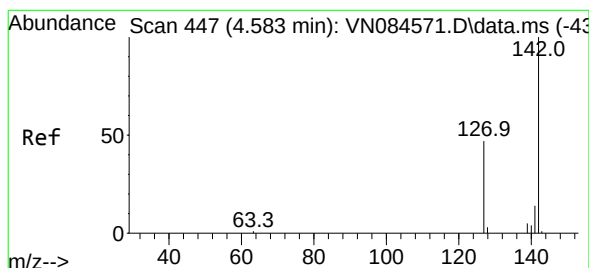
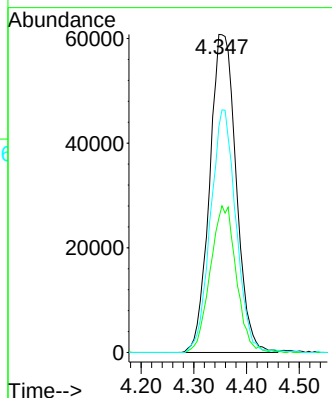
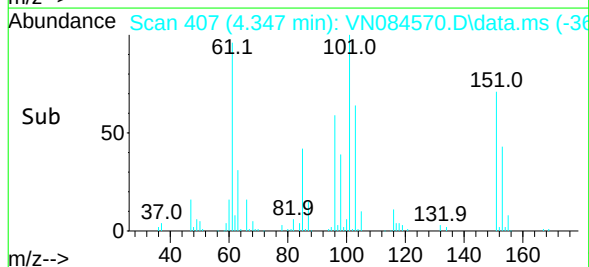
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:	101	Resp:	212244
Ion	Ratio	Lower	Upper
101	100		
85	45.2	36.2	54.4
151	73.1	59.3	88.9

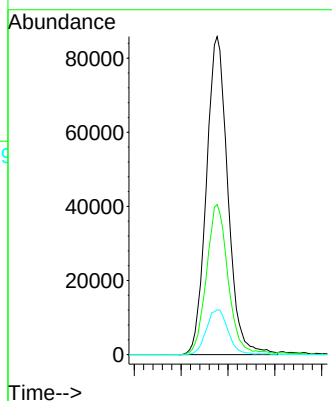
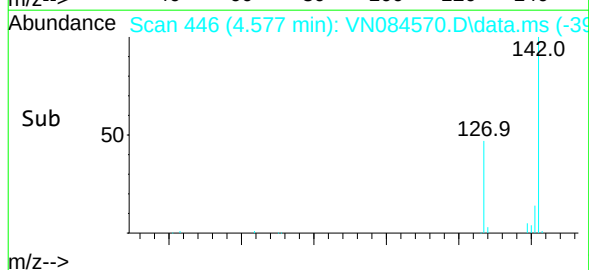
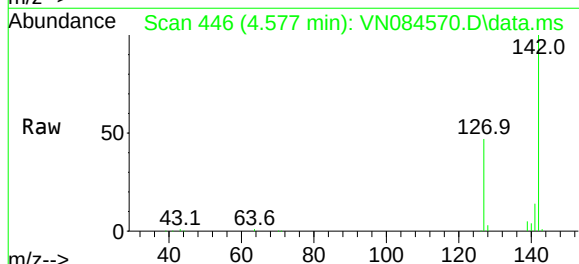
Manual Integrations
APPROVED

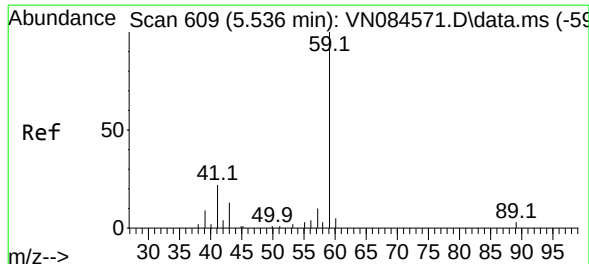
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#10
Methyl Iodide
Concen: 94.692 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.018 min
Lab File: VN084570.D
Acq: 30 Oct 2024 11:46

Tgt Ion:	142	Resp:	272990
Ion	Ratio	Lower	Upper
142	100		
127	47.2	35.3	52.9
141	14.1	11.0	16.6





#11

Tert butyl alcohol

Concen: 429.840 ug/l

RT: 5.547 min Scan# 61

Delta R.T. 0.024 min

Lab File: VN084570.D

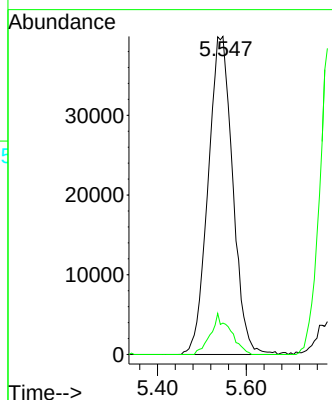
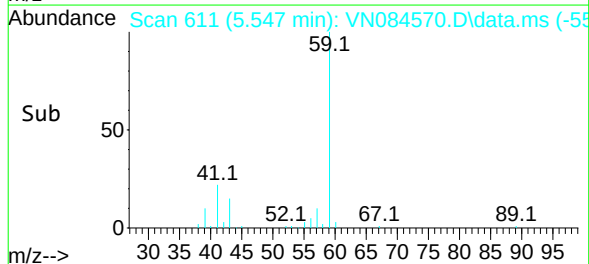
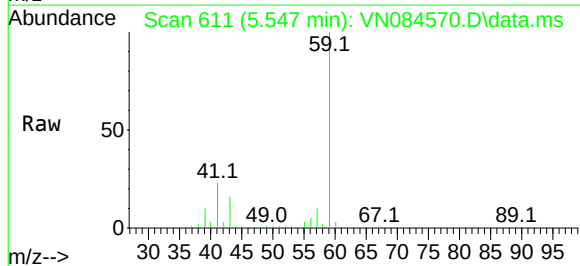
Acq: 30 Oct 2024 11:46

Tgt Ion: 59 Resp: 153595

Ion Ratio Lower Upper

59 100

57 10.3 8.2 12.2



Instrument :

MSVOA_N

ClientSampleId :

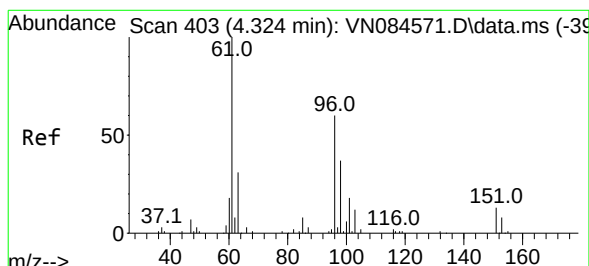
VSTDIC100

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#12

1,1-Dichloroethene

Concen: 96.200 ug/l

RT: 4.324 min Scan# 403

Delta R.T. -0.018 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

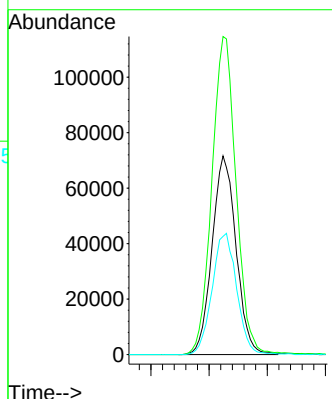
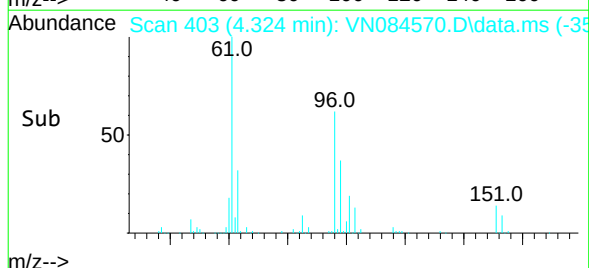
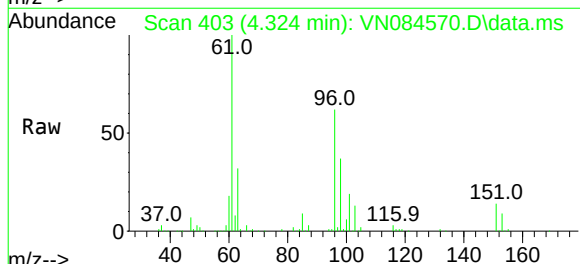
Tgt Ion: 96 Resp: 205332

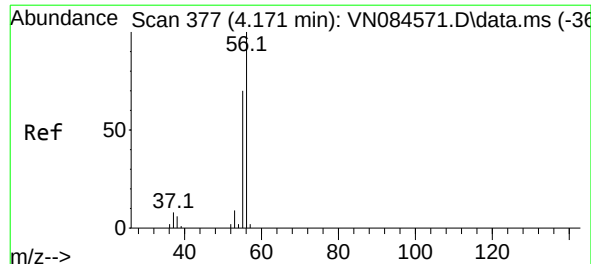
Ion Ratio Lower Upper

96 100

61 160.1 128.6 192.8

98 59.5 51.7 77.5





#13

Acrolein

Concen: 453.545 ug/l

RT: 4.171 min Scan# 377

Delta R.T. -0.006 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 161607

Ion Ratio Lower Upper

56 100

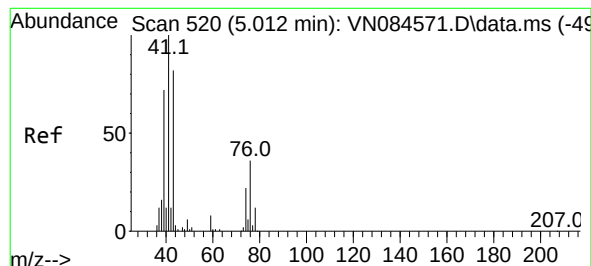
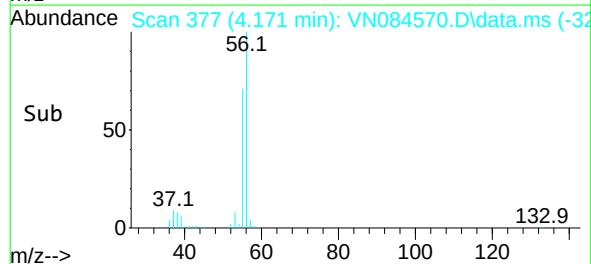
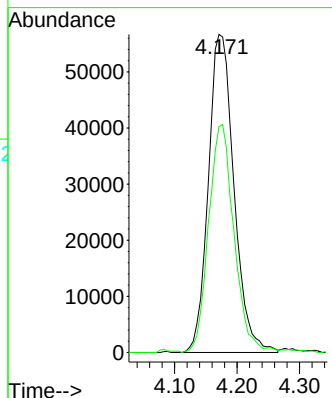
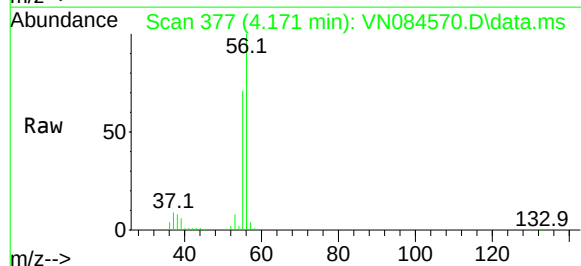
55 71.1 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#14

Allyl chloride

Concen: 101.116 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.012 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

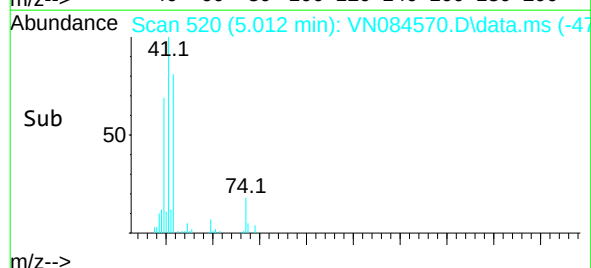
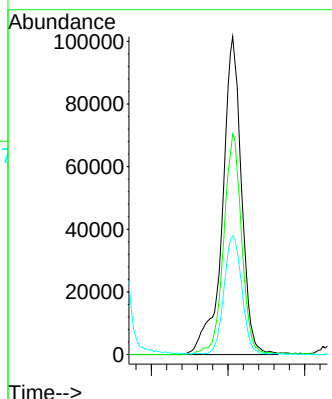
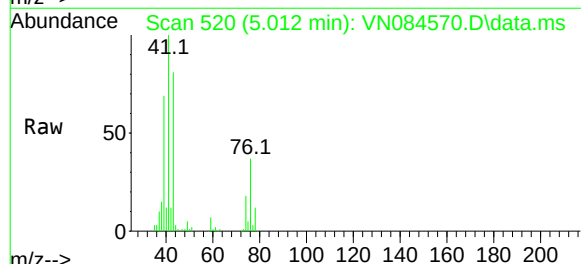
Tgt Ion: 41 Resp: 350014

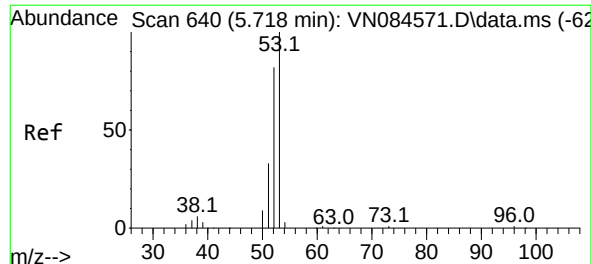
Ion Ratio Lower Upper

41 100

39 65.5 59.0 88.6

76 34.6 29.8 44.6





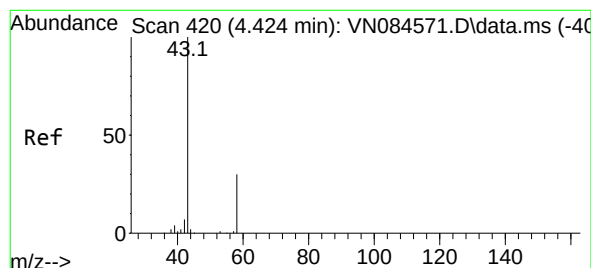
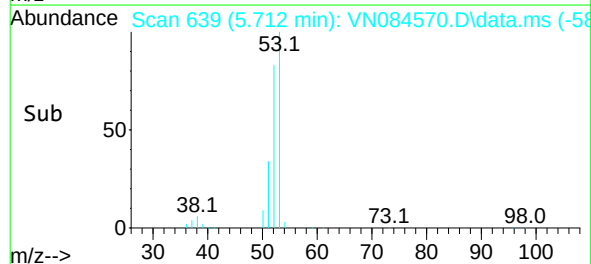
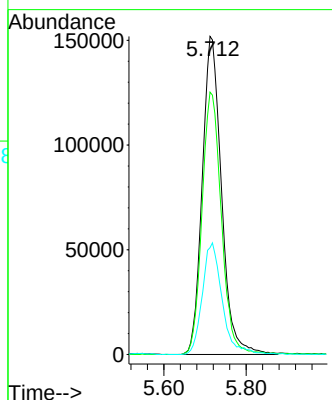
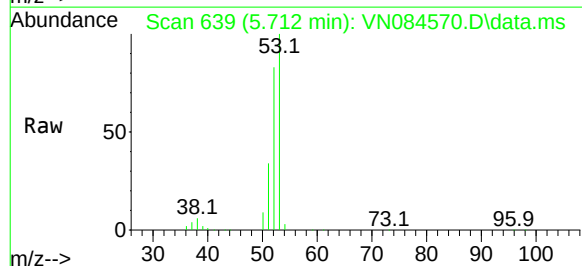
#15
Acrylonitrile
Concen: 477.613 ug/l
RT: 5.712 min Scan# 63
Delta R.T. -0.006 min
Lab File: VN084570.D
Acq: 30 Oct 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 494070
Ion Ratio Lower Upper
53 100
52 82.8 66.2 99.4
51 36.2 28.8 43.2

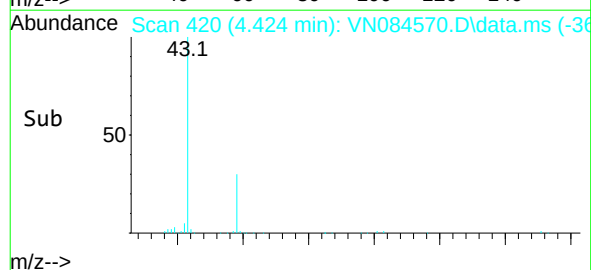
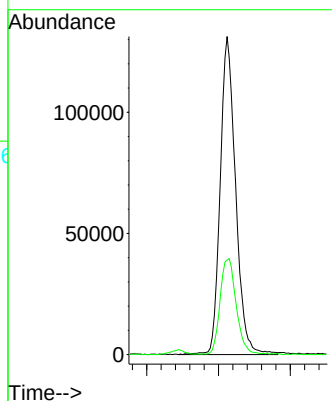
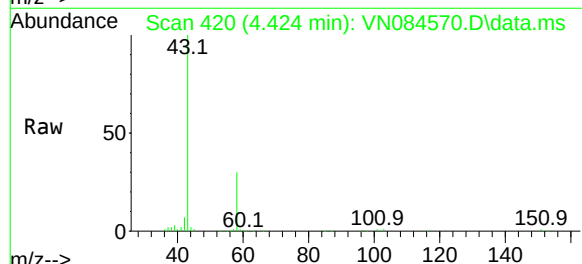
Manual Integrations
APPROVED

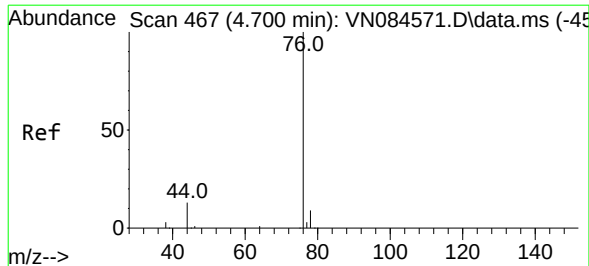
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#16
Acetone
Concen: 502.753 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN084570.D
Acq: 30 Oct 2024 11:46

Tgt Ion: 43 Resp: 390888
Ion Ratio Lower Upper
43 100
58 29.5 24.4 36.6





#17

Carbon Disulfide

Concen: 91.464 ug/l

RT: 4.700 min Scan# 46

Delta R.T. -0.012 min

Lab File: VN084570.D

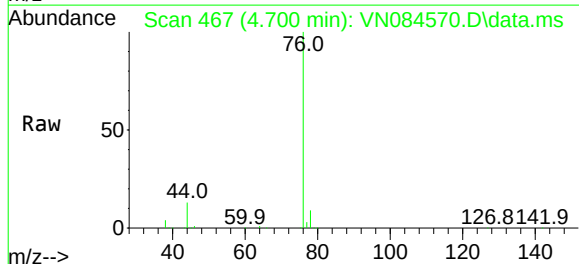
Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100



Tgt Ion: 76 Resp: 601202

Ion Ratio Lower Upper

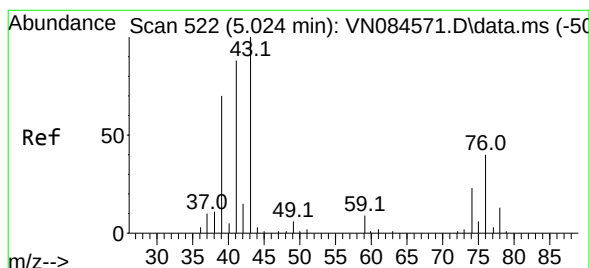
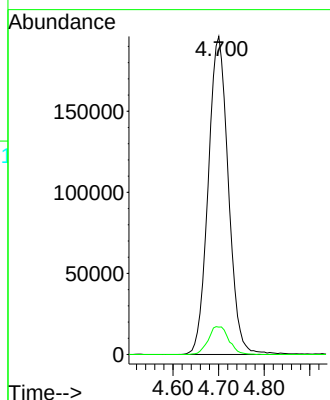
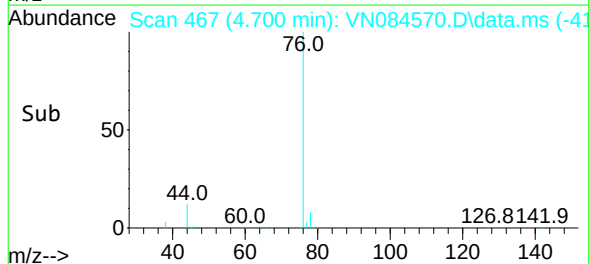
76 100

78 8.6 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#18

Methyl Acetate

Concen: 99.857 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN084570.D

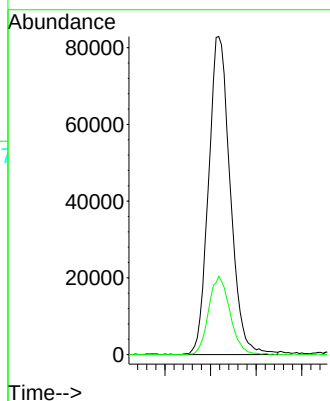
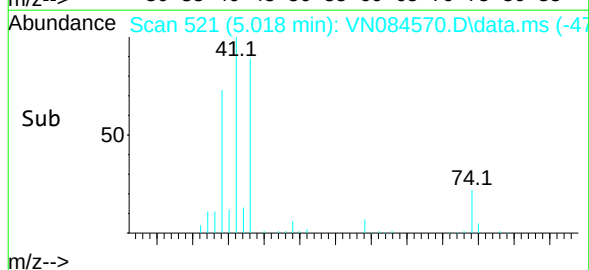
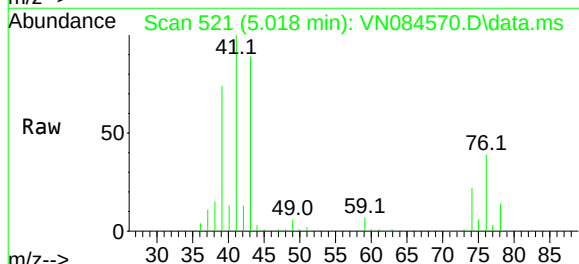
Acq: 30 Oct 2024 11:46

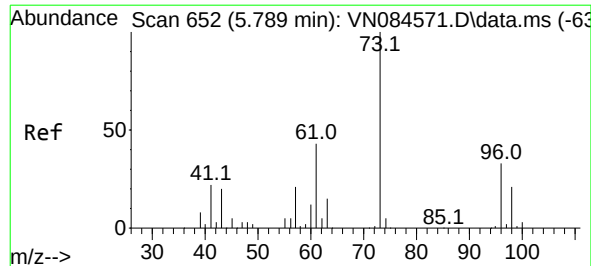
Tgt Ion: 43 Resp: 273870

Ion Ratio Lower Upper

43 100

74 24.2 19.2 28.8





#19

Methyl tert-butyl Ether

Concen: 101.618 ug/l

RT: 5.789 min Scan# 65

Delta R.T. -0.006 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 73 Resp: 664800

Ion Ratio Lower Upper

73 100

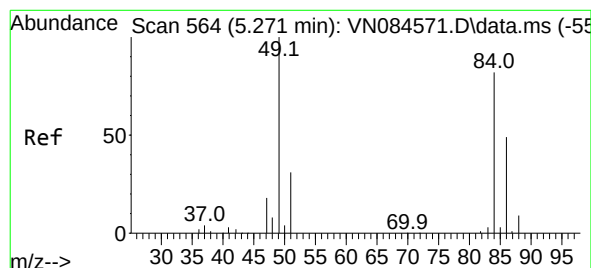
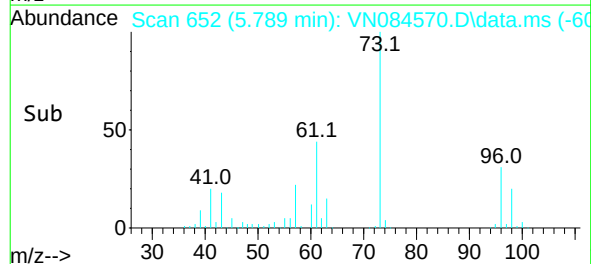
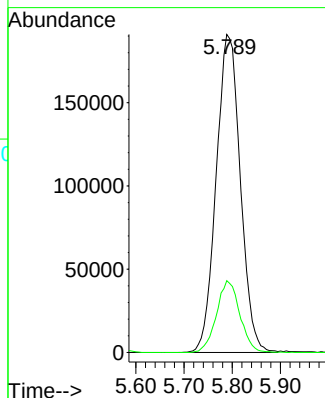
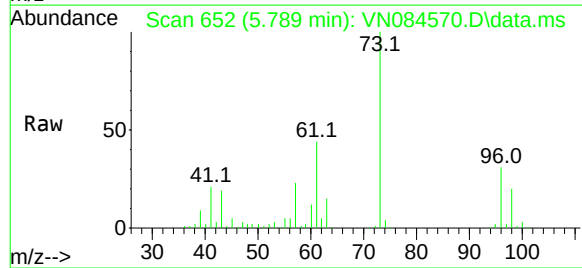
57 22.6 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#20

Methylene Chloride

Concen: 95.017 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.006 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Tgt Ion: 84 Resp: 226231

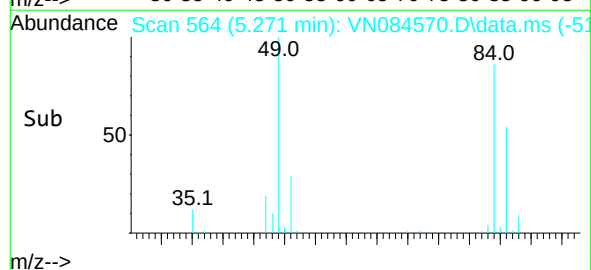
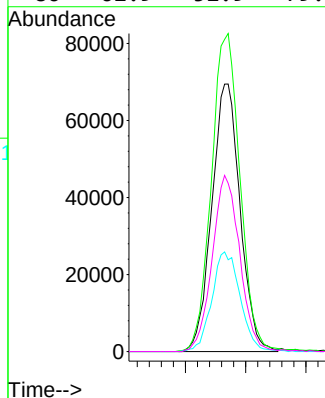
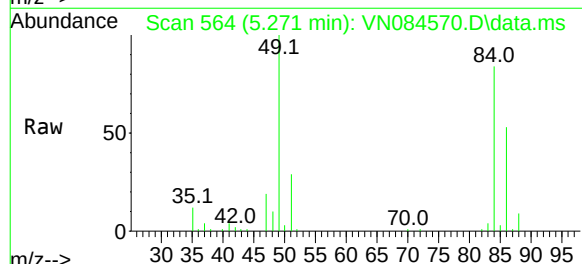
Ion Ratio Lower Upper

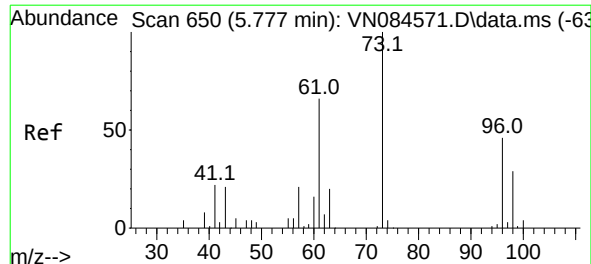
84 100

49 118.6 107.2 160.8

51 34.3 31.8 47.8

86 62.9 52.9 79.3





#21

trans-1,2-Dichloroethene

Concen: 96.569 ug/l

RT: 5.777 min Scan# 650

Delta R.T. -0.012 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 96 Resp: 211649

Ion Ratio Lower Upper

96 100

61 146.6 108.4 162.6

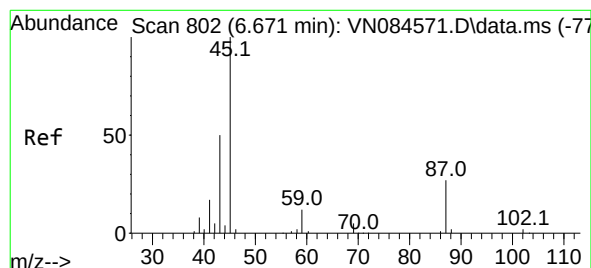
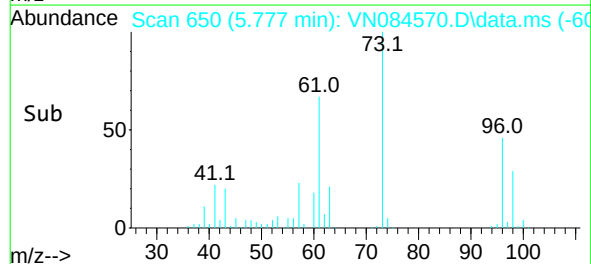
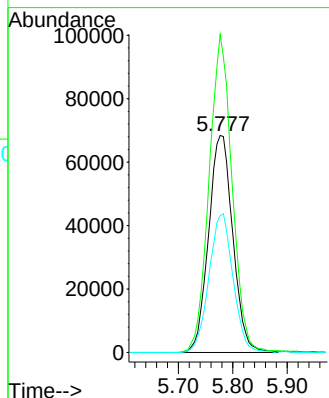
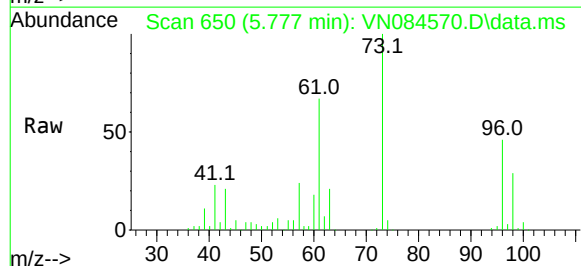
98 63.0 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#22

Diisopropyl ether

Concen: 101.268 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.006 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Tgt Ion: 45 Resp: 696527

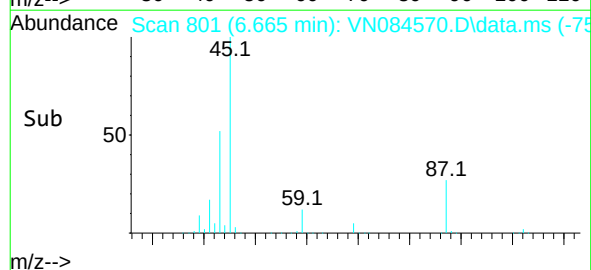
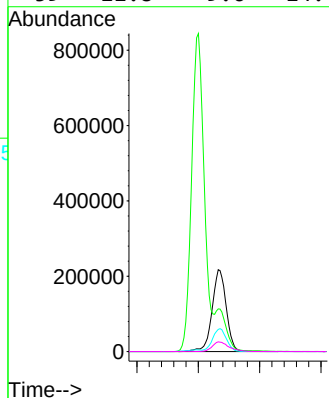
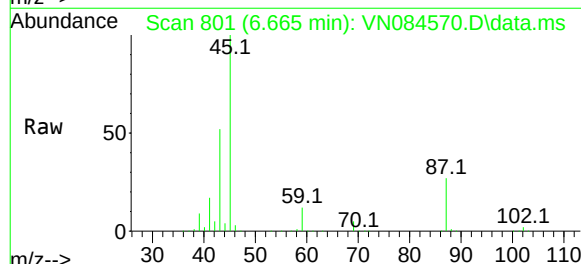
Ion Ratio Lower Upper

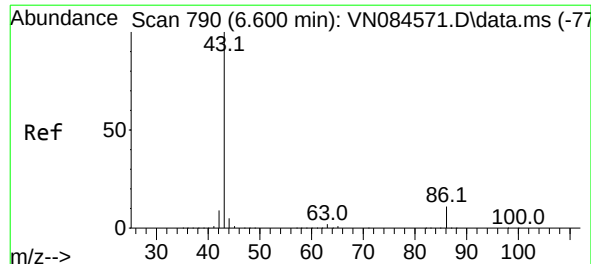
45 100

43 51.8 42.3 63.5

87 27.1 21.8 32.6

59 11.8 9.6 14.4





#23

Vinyl Acetate

Concen: 514.697 ug/l

RT: 6.600 min Scan# 790

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 2441301

Ion Ratio Lower Upper

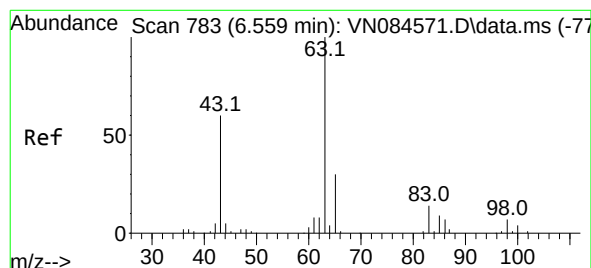
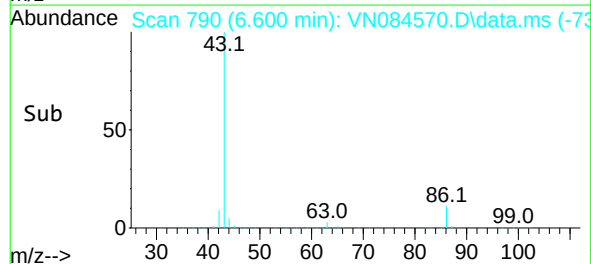
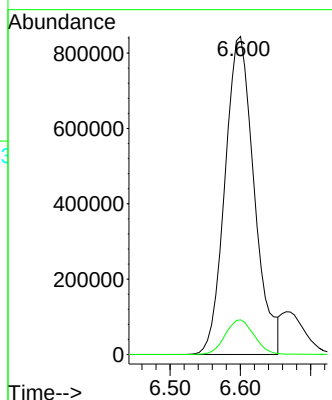
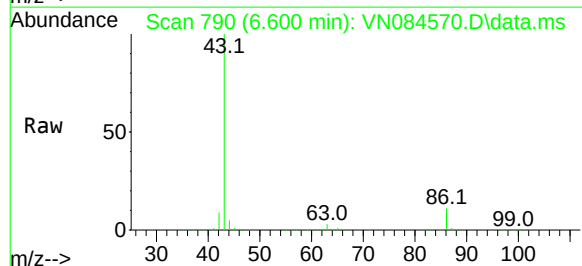
43 100

86 10.9 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#24

1,1-Dichloroethane

Concen: 96.866 ug/l

RT: 6.559 min Scan# 783

Delta R.T. -0.012 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

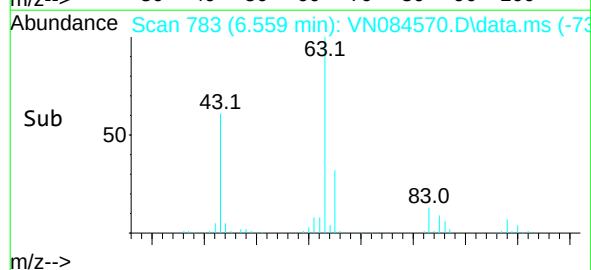
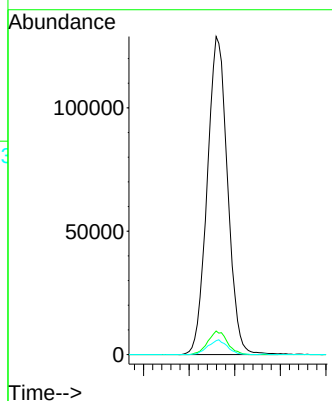
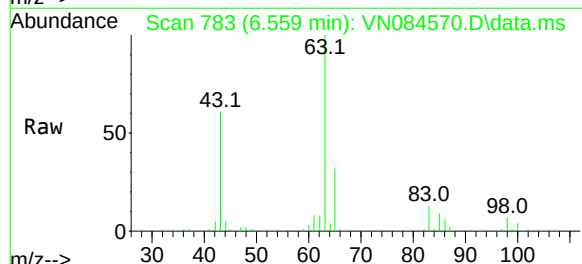
Tgt Ion: 63 Resp: 399999

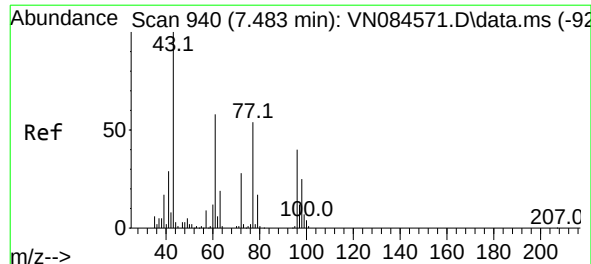
Ion Ratio Lower Upper

63 100

98 7.4 3.4 10.2

100 4.4 2.0 5.8





#25

2-Butanone

Concen: 468.634 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 591863

Ion Ratio Lower Upper

43 100

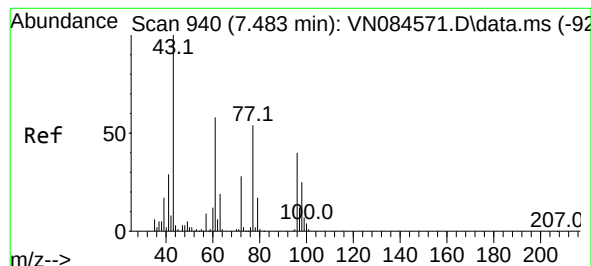
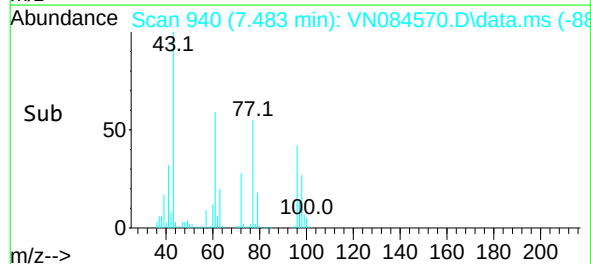
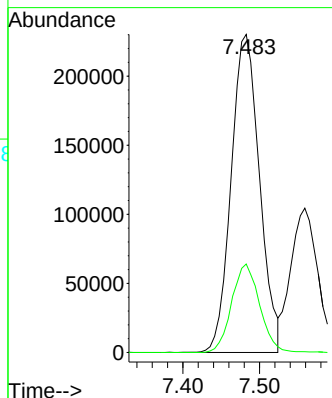
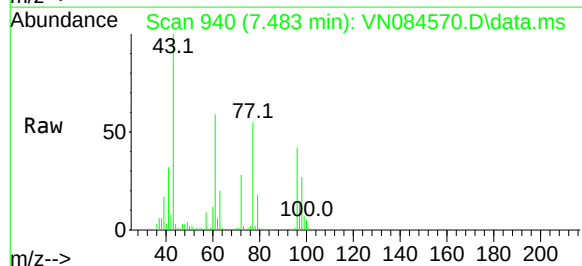
72 27.8 21.4 32.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#26

2,2-Dichloropropane

Concen: 100.979 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.006 min

Lab File: VN084570.D

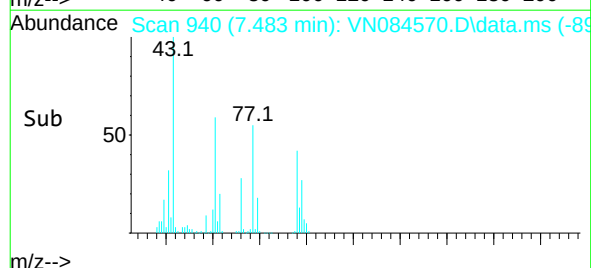
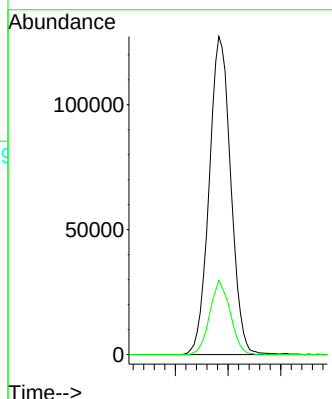
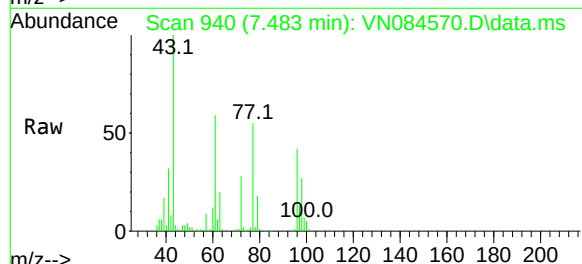
Acq: 30 Oct 2024 11:46

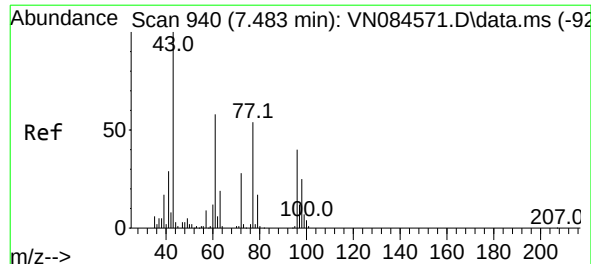
Tgt Ion: 77 Resp: 362927

Ion Ratio Lower Upper

77 100

97 22.0 10.8 32.3





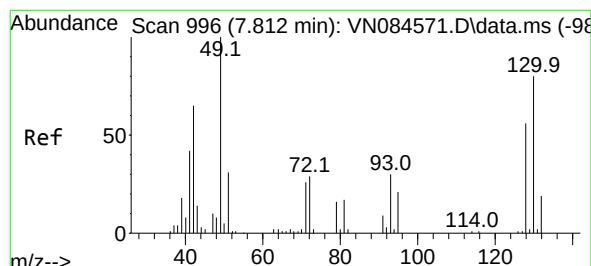
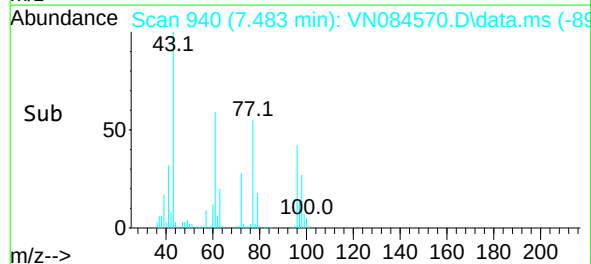
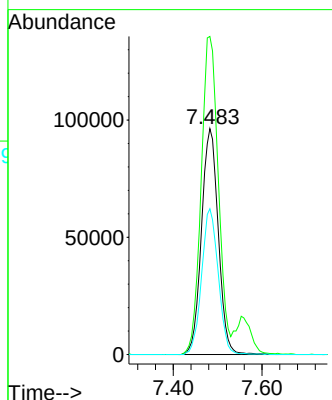
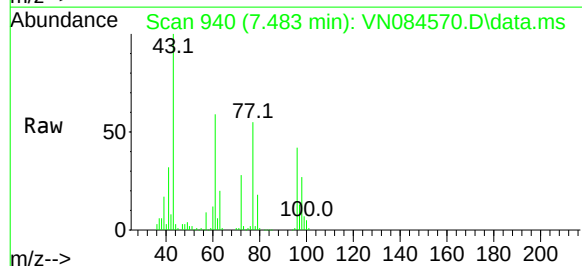
#27
 cis-1,2-Dichloroethene
 Concen: 98.835 ug/l
 RT: 7.483 min Scan# 940
 Delta R.T. -0.006 min
 Lab File: VN084570.D
 Acq: 30 Oct 2024 11:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Tgt Ion: 96 Resp: 252932
 Ion Ratio Lower Upper
 96 100
 61 143.8 0.0 301.8
 98 63.9 0.0 128.2

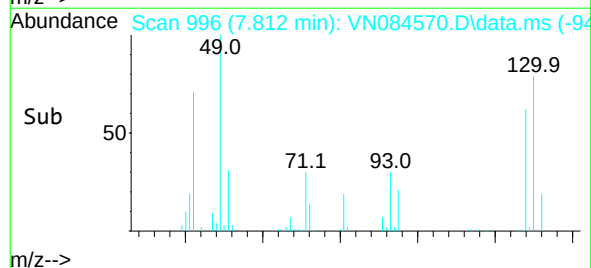
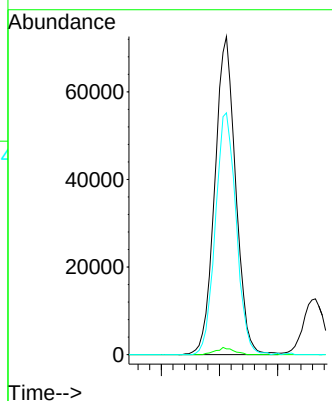
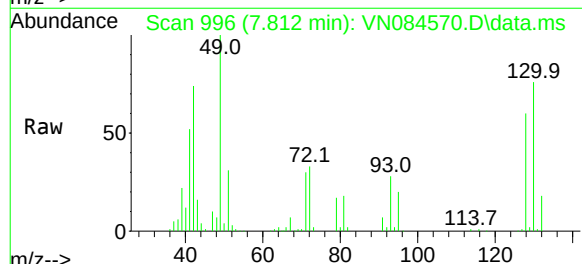
Manual Integrations
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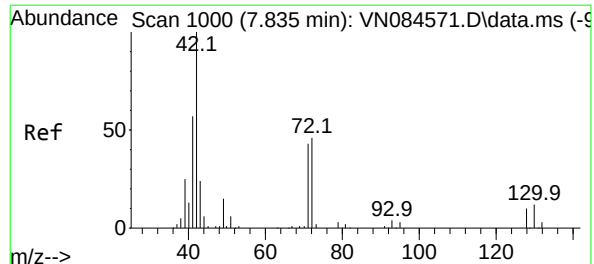
Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024



#28
 Bromochloromethane
 Concen: 109.944 ug/l
 RT: 7.812 min Scan# 996
 Delta R.T. 0.000 min
 Lab File: VN084570.D
 Acq: 30 Oct 2024 11:46

Tgt Ion: 49 Resp: 180881
 Ion Ratio Lower Upper
 49 100
 129 1.9 0.0 3.6
 130 75.7 58.0 87.0





#29

Tetrahydrofuran

Concen: 495.347 ug/l

RT: 7.835 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 42 Resp: 415033

Ion Ratio Lower Upper

42 100

72 45.0 34.6 51.8

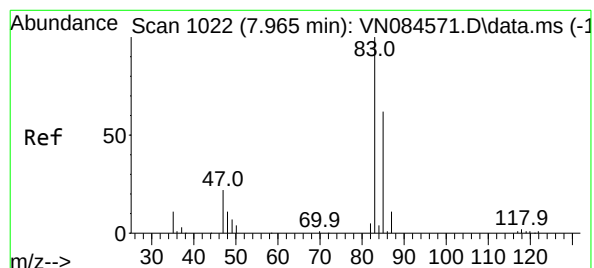
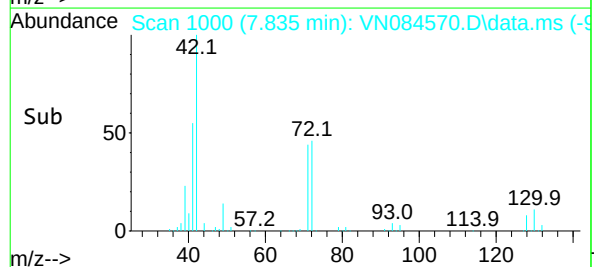
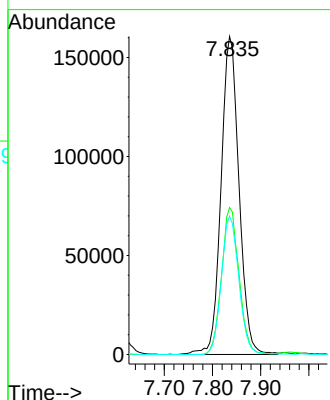
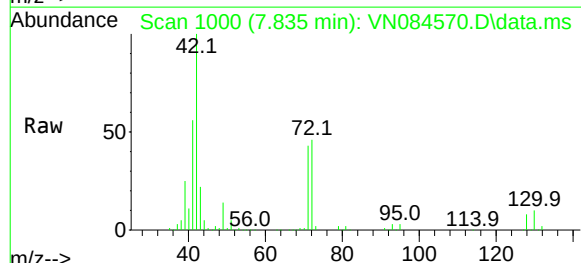
71 42.4 32.2 48.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#30

Chloroform

Concen: 98.045 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VN084570.D

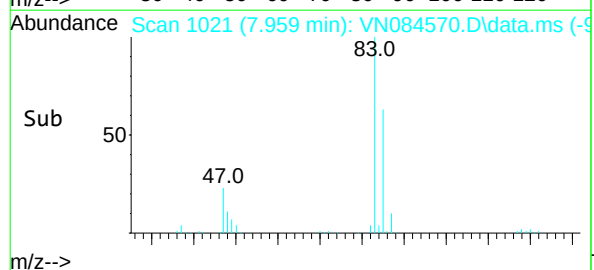
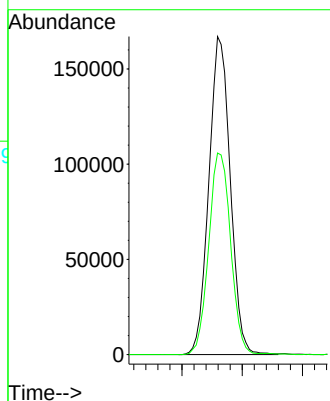
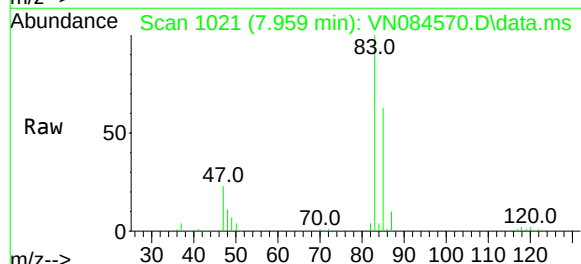
Acq: 30 Oct 2024 11:46

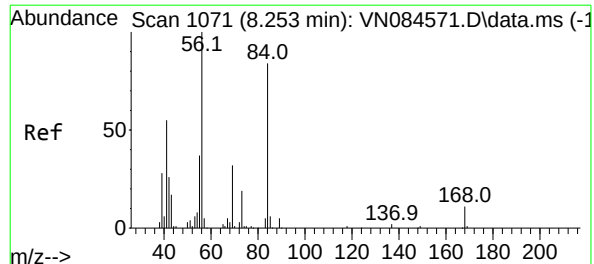
Tgt Ion: 83 Resp: 412084

Ion Ratio Lower Upper

83 100

85 63.4 51.0 76.4





#31

Cyclohexane

Concen: 95.881 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Tgt Ion: 56 Resp: 358350

Ion Ratio Lower Upper

56 100

69 31.4 23.8 35.6

84 86.3 68.8 103.2

Instrument :

MSVOA_N

ClientSampleId :

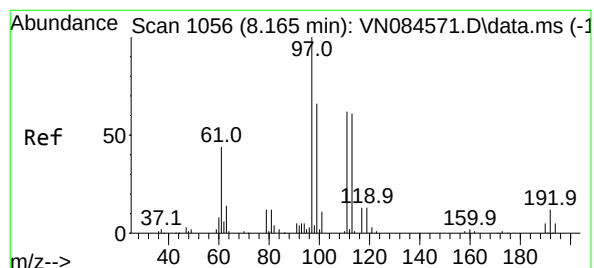
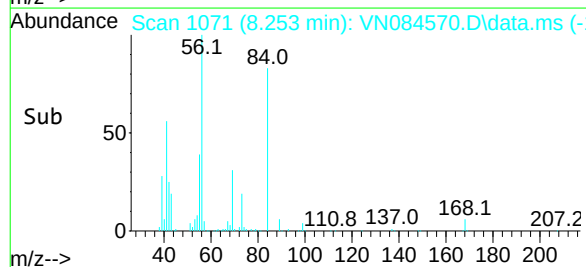
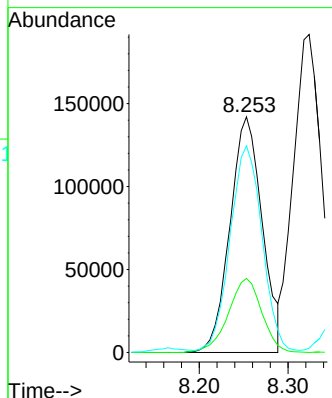
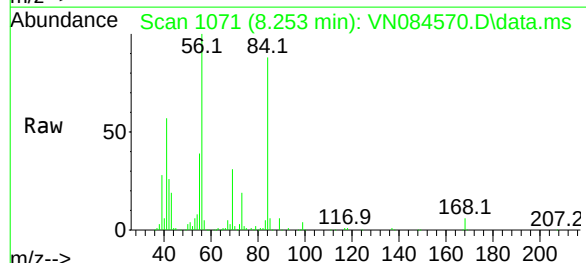
VSTDICC100

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#32

1,1,1-Trichloroethane

Concen: 98.012 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

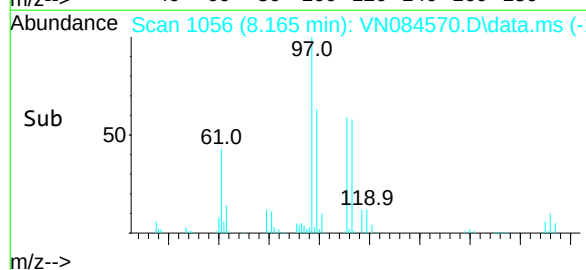
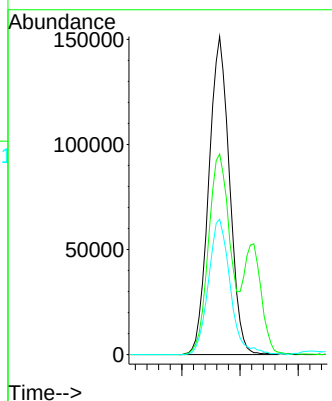
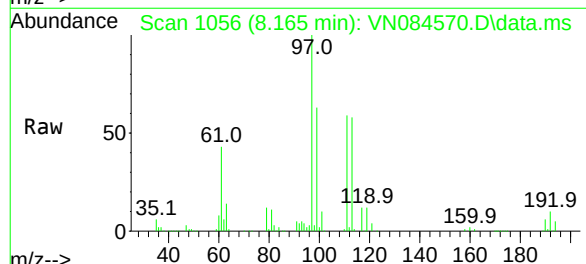
Tgt Ion: 97 Resp: 374940

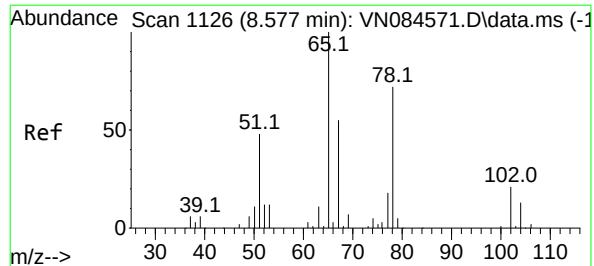
Ion Ratio Lower Upper

97 100

99 64.7 51.2 76.8

61 44.8 37.5 56.3





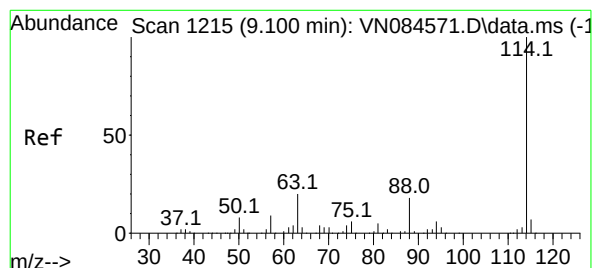
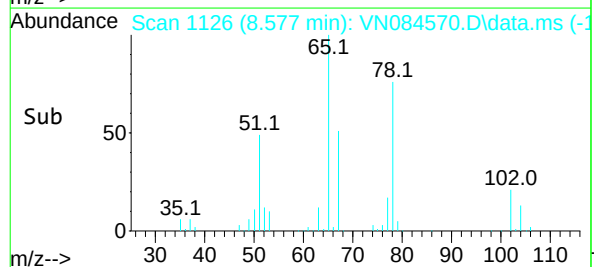
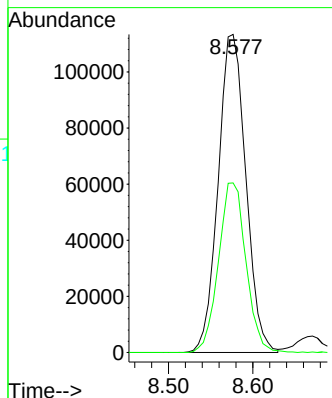
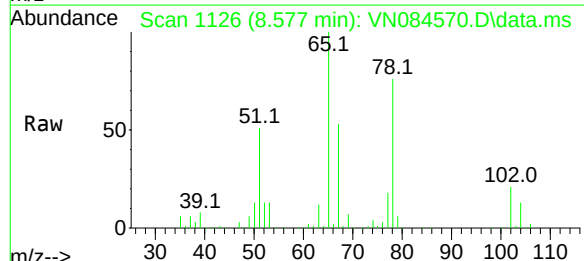
#33
1,2-Dichloroethane-d4
Concen: 95.404 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084570.D
Acq: 30 Oct 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 258269
Ion Ratio Lower Upper
65 100
67 52.9 0.0 102.0

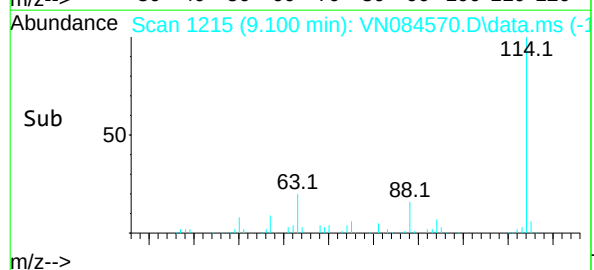
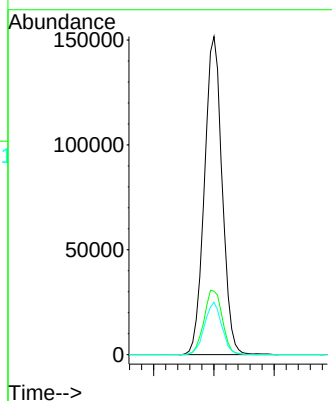
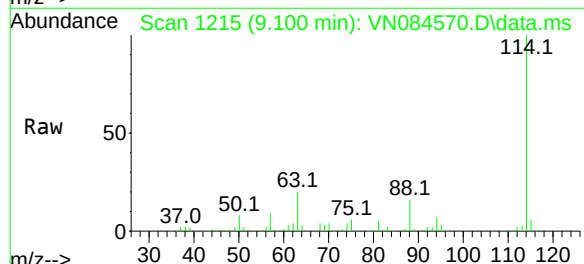
Manual Integrations
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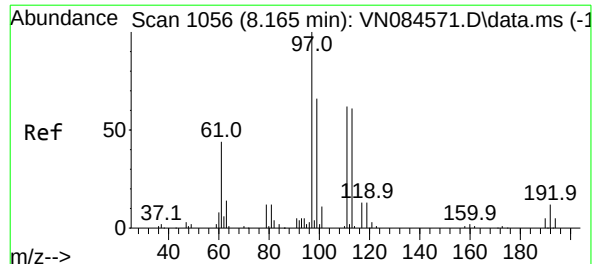
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084570.D
Acq: 30 Oct 2024 11:46

Tgt Ion:114 Resp: 309230
Ion Ratio Lower Upper
114 100
63 20.0 0.0 43.8
88 16.5 0.0 31.6





#35

Dibromofluoromethane

Concen: 98.617 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:113 Resp: 206417

Ion Ratio Lower Upper

113 100

111 102.9 83.3 124.9

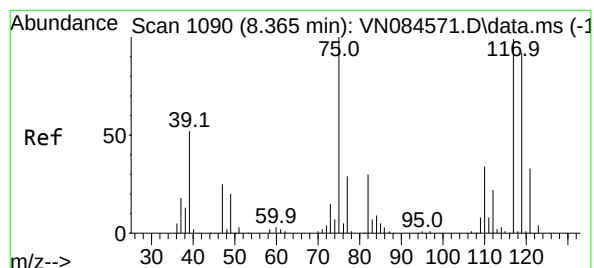
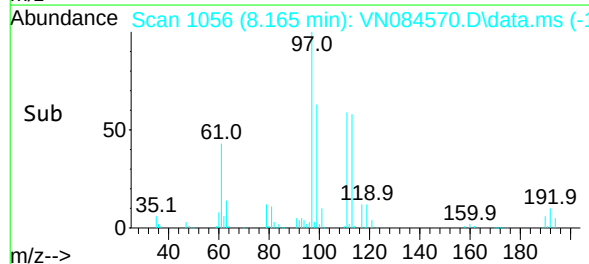
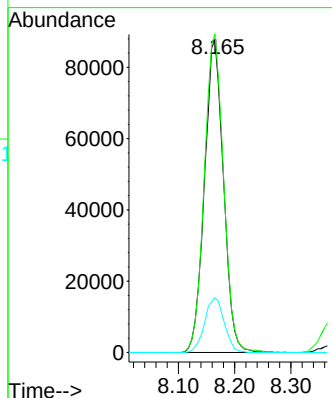
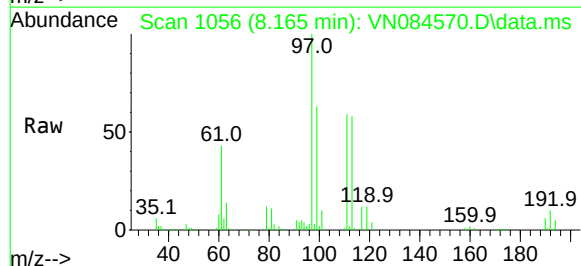
192 18.0 13.5 20.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#36

1,1-Dichloropropene

Concen: 101.323 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.006 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

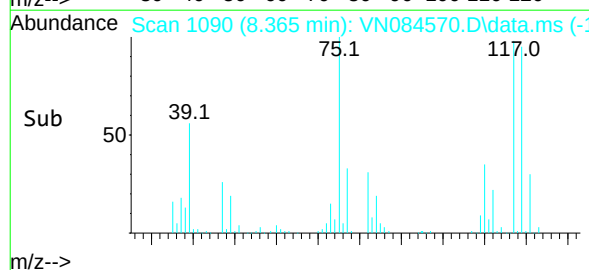
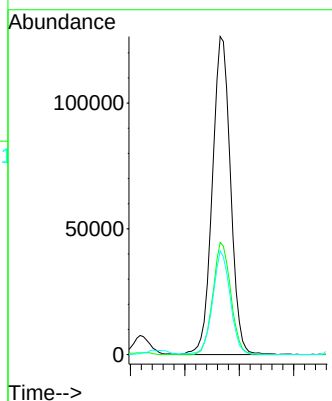
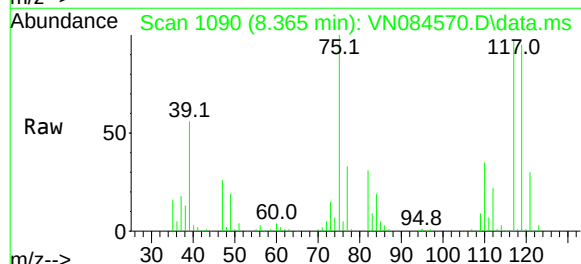
Tgt Ion: 75 Resp: 294131

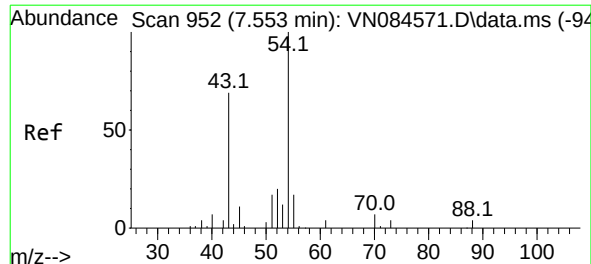
Ion Ratio Lower Upper

75 100

110 34.6 16.9 50.7

77 31.5 24.7 37.1





#37

Ethyl Acetate

Concen: 99.553 ug/l

RT: 7.559 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 262200

Ion Ratio Lower Upper

43 100

61 12.1 10.7 16.1

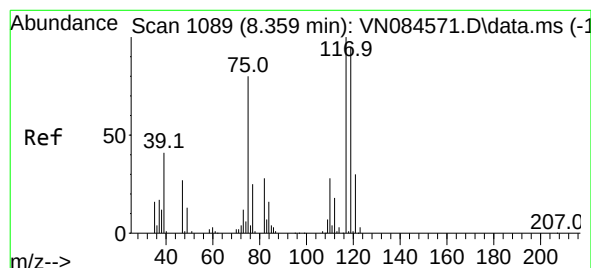
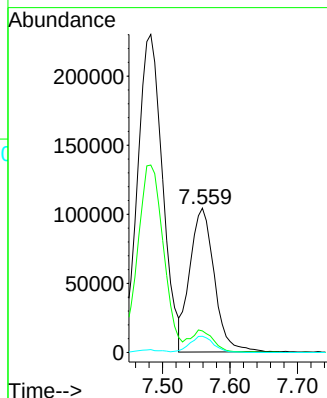
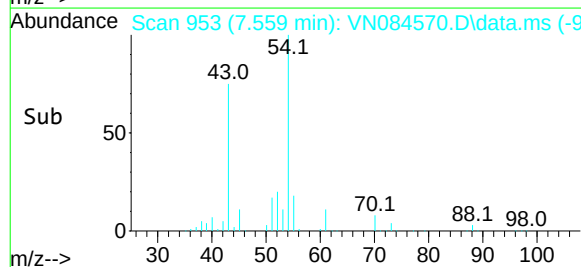
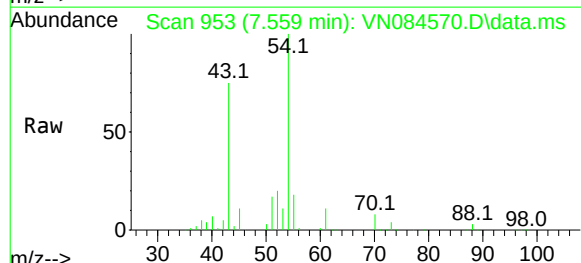
70 11.0 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#38

Carbon Tetrachloride

Concen: 100.981 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

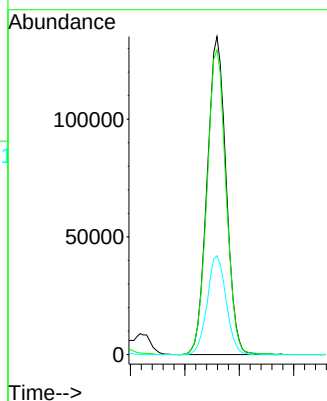
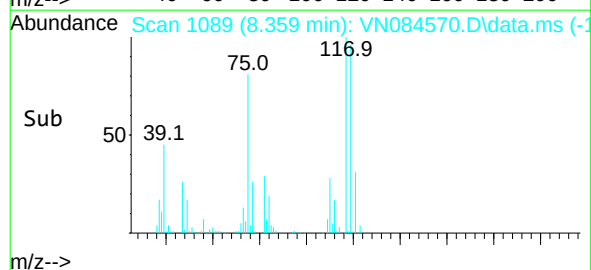
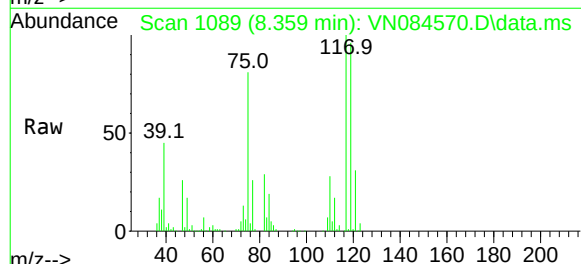
Tgt Ion:117 Resp: 327651

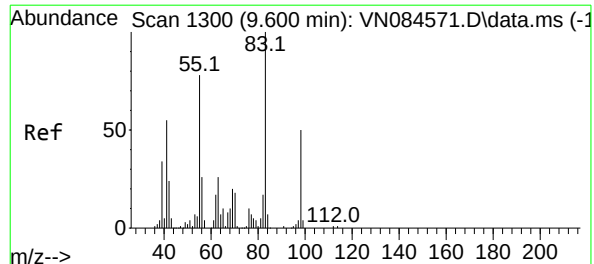
Ion Ratio Lower Upper

117 100

119 95.8 78.7 118.1

121 31.1 24.4 36.6





#39

Methylcyclohexane

Concen: 114.344 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 337677

Ion Ratio Lower Upper

83 100

55 74.5 62.8 94.2

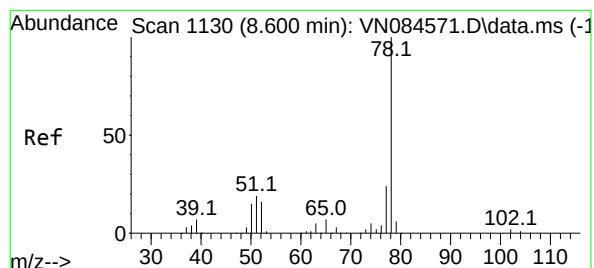
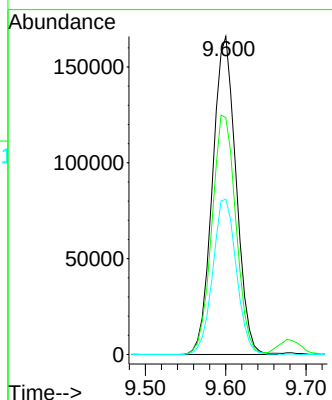
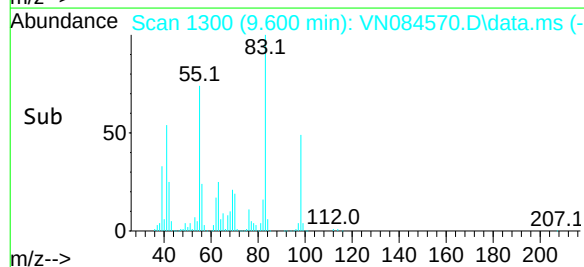
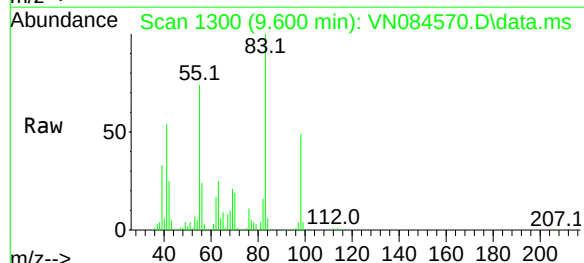
98 48.8 38.8 58.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#40

Benzene

Concen: 99.119 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VN084570.D

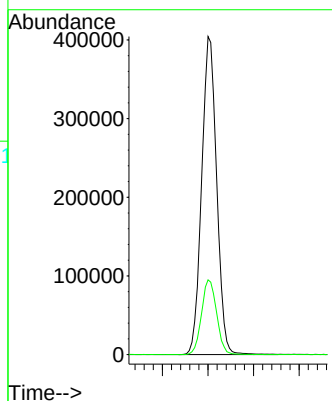
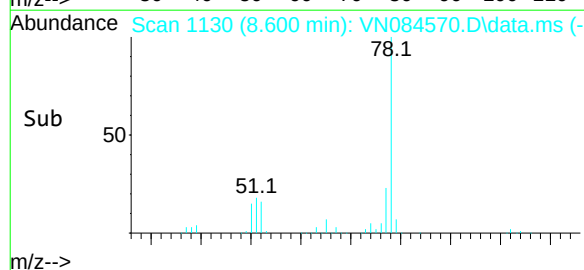
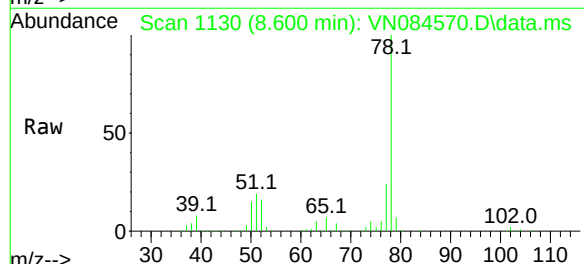
Acq: 30 Oct 2024 11:46

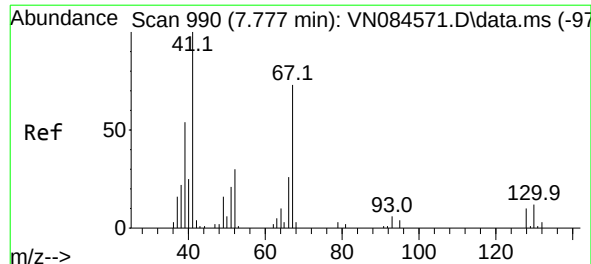
Tgt Ion: 78 Resp: 924038

Ion Ratio Lower Upper

78 100

77 23.5 19.1 28.7





#41

Methacrylonitrile

Concen: 102.406 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 41 Resp: 145041

Ion Ratio Lower Upper

41 100

39 56.8 43.3 64.9

67 76.0 56.1 84.1

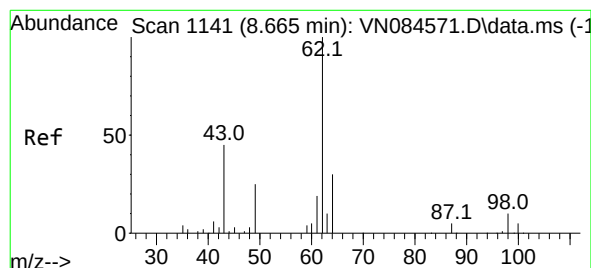
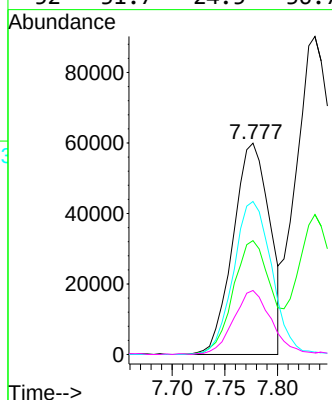
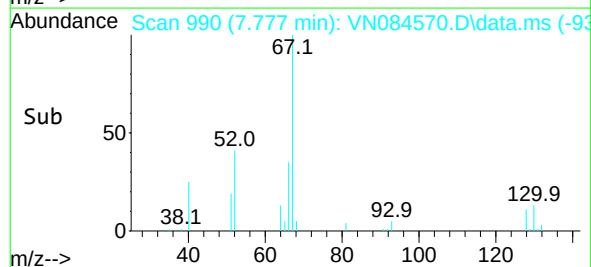
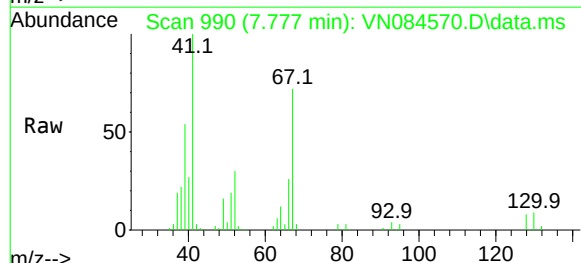
52 31.7 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#42

1,2-Dichloroethane

Concen: 100.005 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.006 min

Lab File: VN084570.D

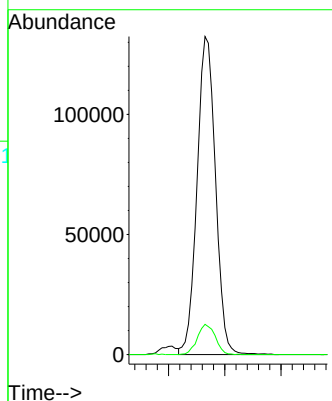
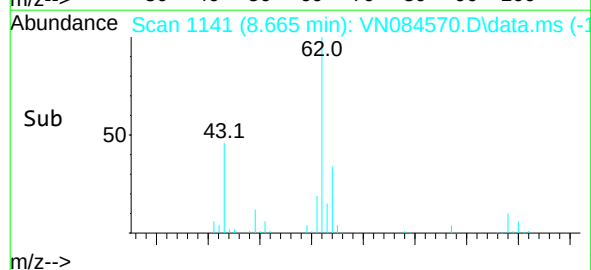
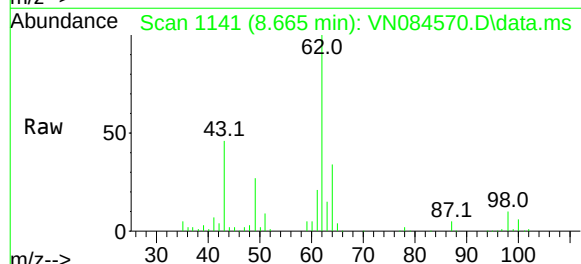
Acq: 30 Oct 2024 11:46

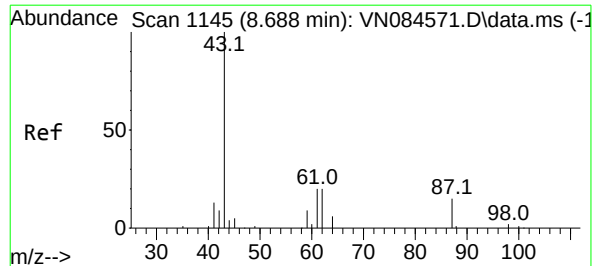
Tgt Ion: 62 Resp: 301932

Ion Ratio Lower Upper

62 100

98 9.3 0.0 18.2





#43

Isopropyl Acetate

Concen: 100.857 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Tgt Ion: 43 Resp: 485962

Ion Ratio Lower Upper

43 100

61 26.0 20.4 30.6

87 12.5 10.3 15.5

Instrument :

MSVOA_N

ClientSampleId :

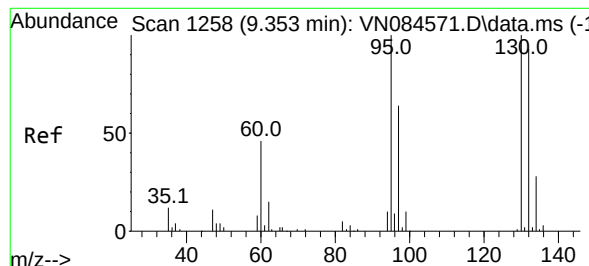
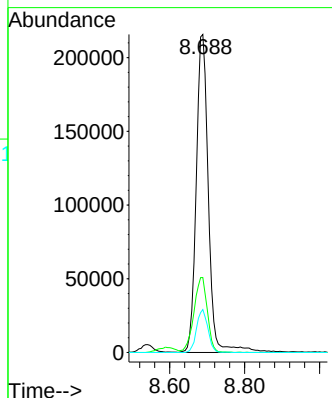
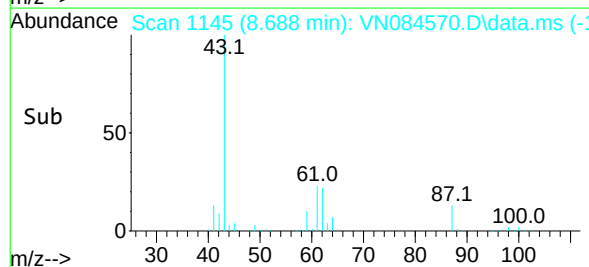
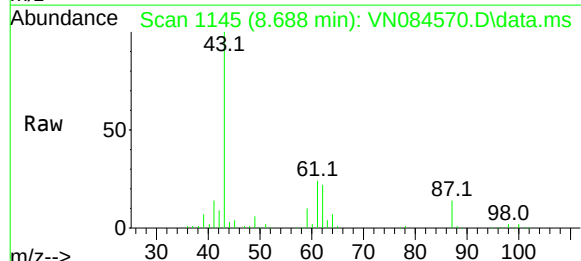
VSTDICC100

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#44

Trichloroethene

Concen: 97.413 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN084570.D

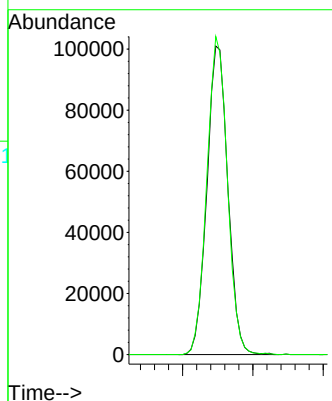
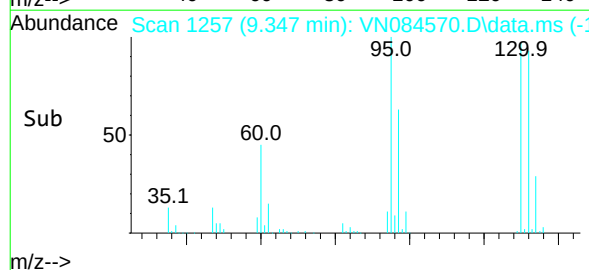
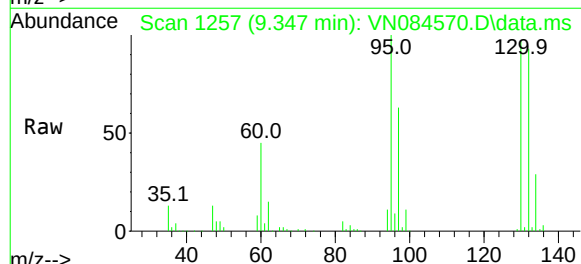
Acq: 30 Oct 2024 11:46

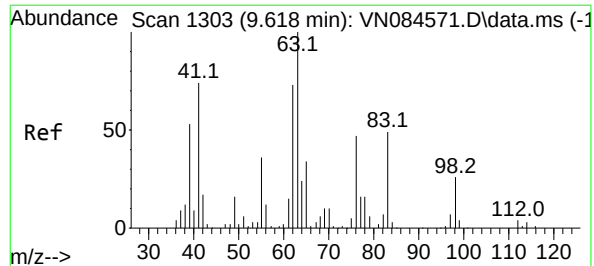
Tgt Ion:130 Resp: 209438

Ion Ratio Lower Upper

130 100

95 103.1 0.0 203.0





#45

1,2-Dichloropropane

Concen: 100.718 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 63 Resp: 220258

Ion Ratio Lower Upper

63 100

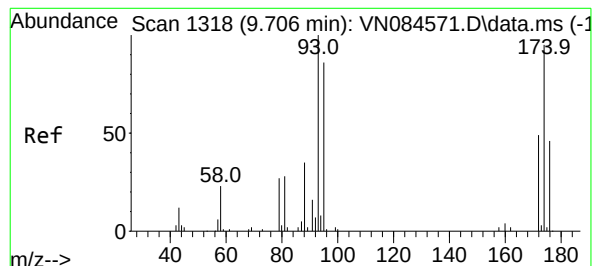
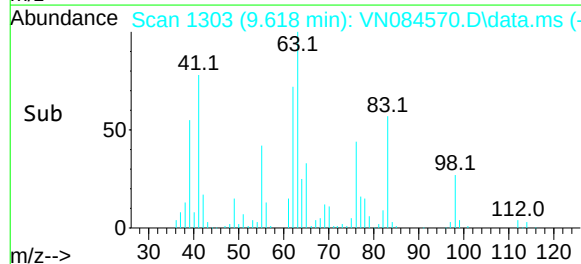
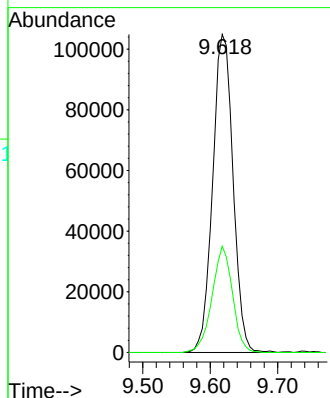
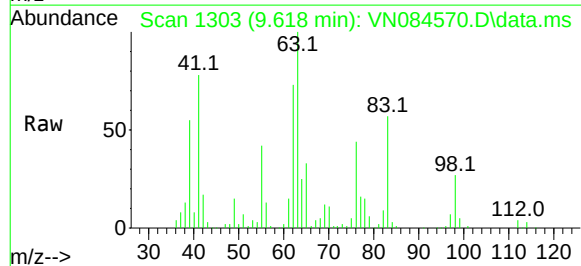
65 33.4 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#46

Dibromomethane

Concen: 98.281 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

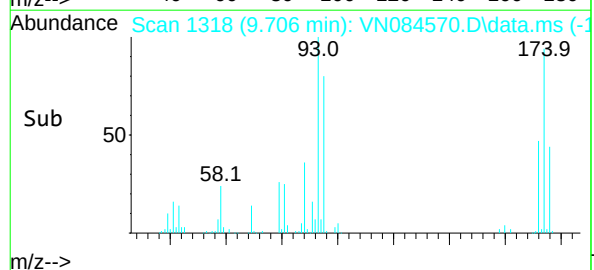
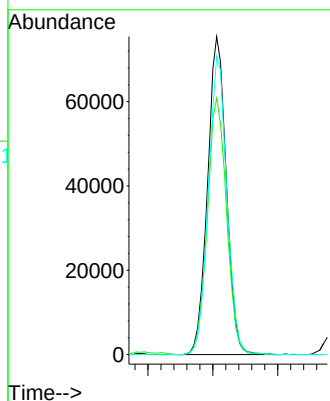
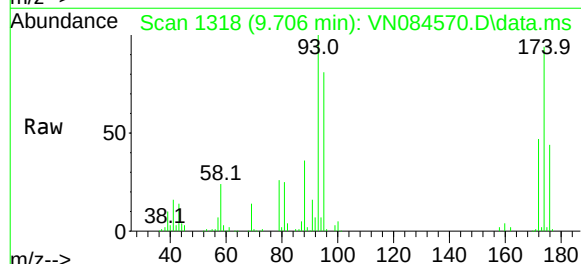
Tgt Ion: 93 Resp: 151661

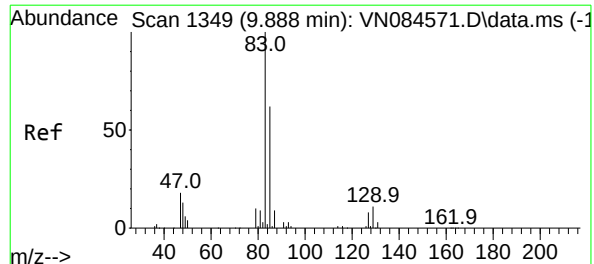
Ion Ratio Lower Upper

93 100

95 82.3 65.0 97.4

174 92.7 71.8 107.8





#47

Bromodichloromethane

Concen: 100.364 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 326466

Ion Ratio Lower Upper

83 100

85 67.2 51.5 77.3

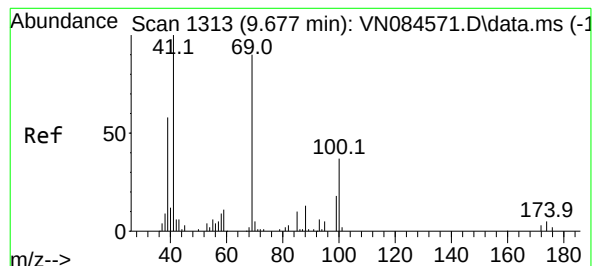
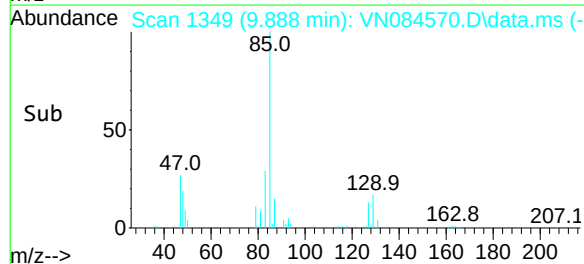
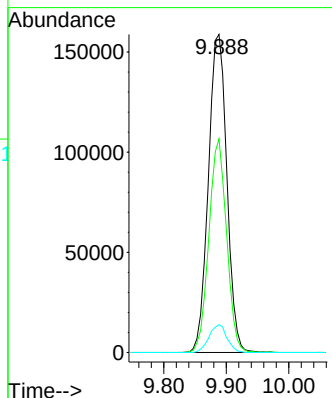
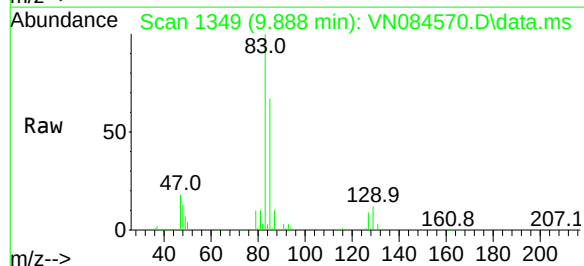
127 8.8 5.7 8.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#48

Methyl methacrylate

Concen: 107.249 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

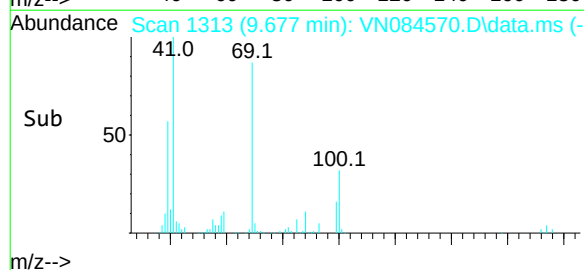
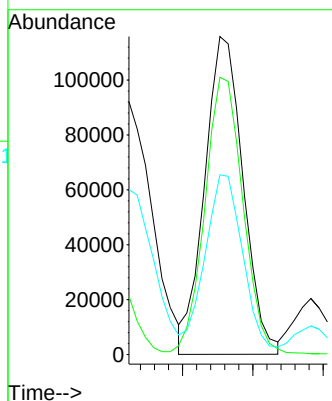
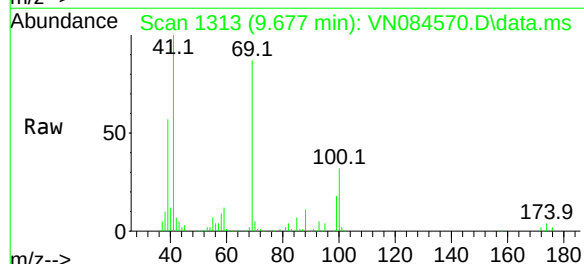
Tgt Ion: 41 Resp: 219838

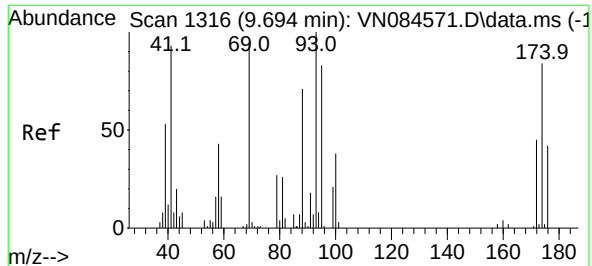
Ion Ratio Lower Upper

41 100

69 86.4 67.1 100.7

39 56.6 45.8 68.6





#49

1,4-Dioxane

Concen: 2097.505 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 88 Resp: 76189

Ion Ratio Lower Upper

88 100

43 0.0 25.3 37.9

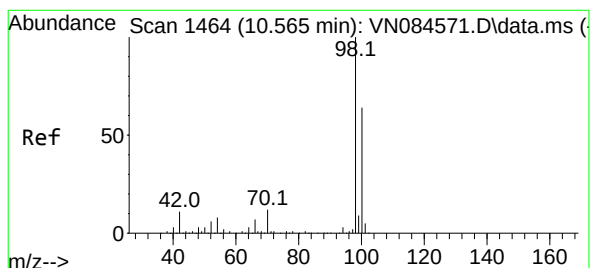
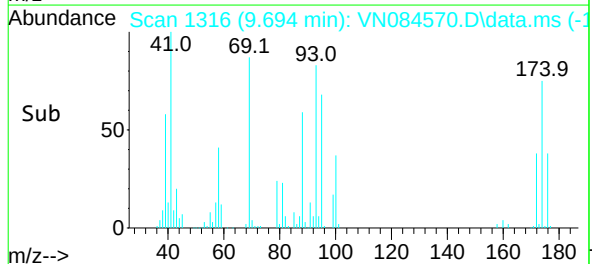
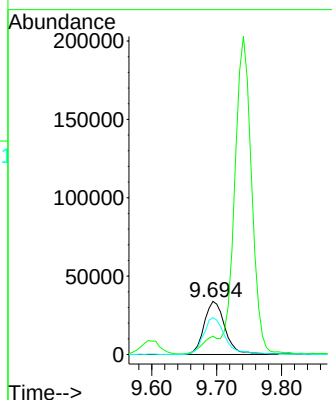
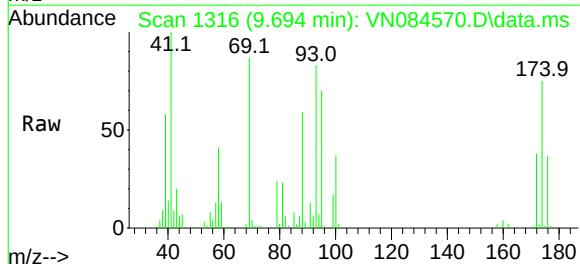
58 72.9 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#50

Toluene-d8

Concen: 101.646 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084570.D

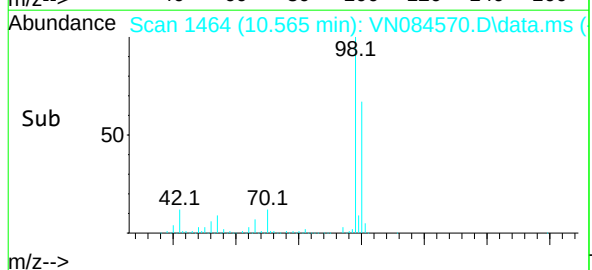
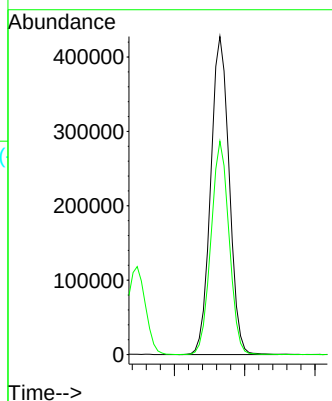
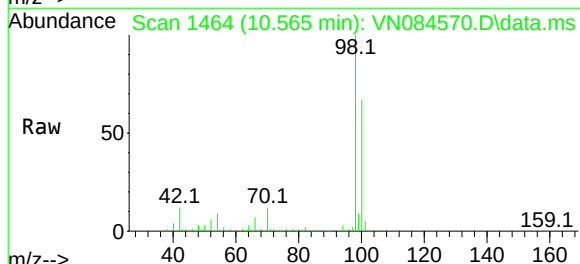
Acq: 30 Oct 2024 11:46

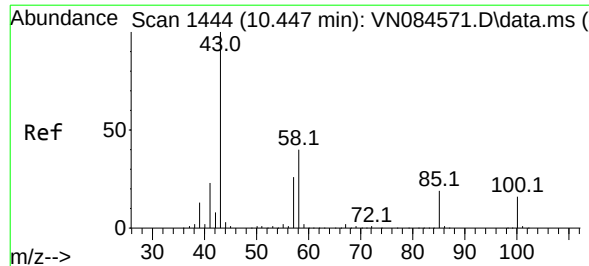
Tgt Ion: 98 Resp: 783727

Ion Ratio Lower Upper

98 100

100 65.6 52.7 79.1





#51

4-Methyl-2-Pentanone

Concen: 522.607 ug/l

RT: 10.447 min Scan# 14

Delta R.T. 0.006 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 1312148

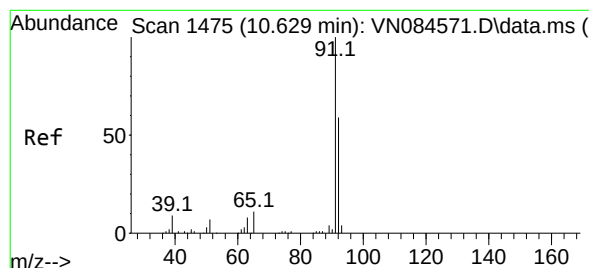
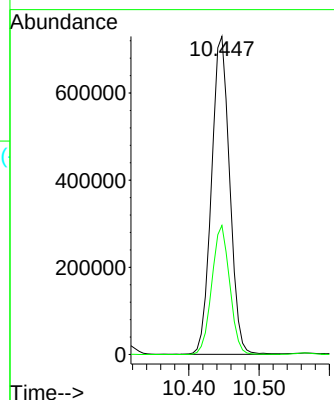
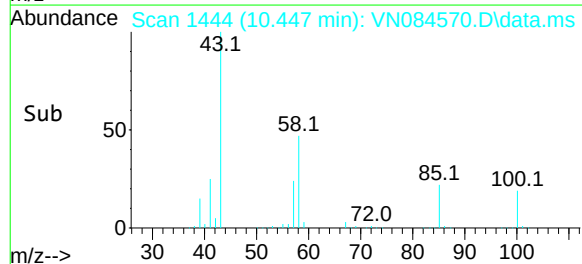
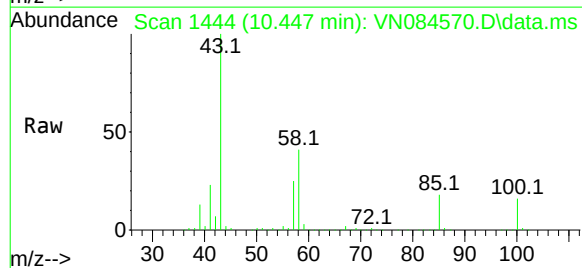
Ion Ratio Lower Upper

43 100

58 39.8 31.6 47.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#52

Toluene

Concen: 104.696 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VN084570.D

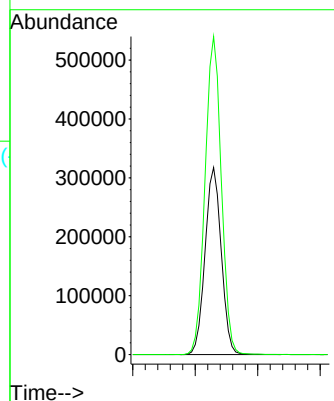
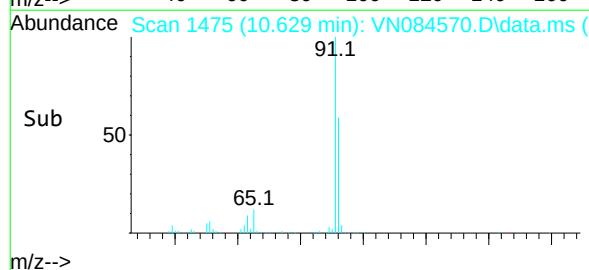
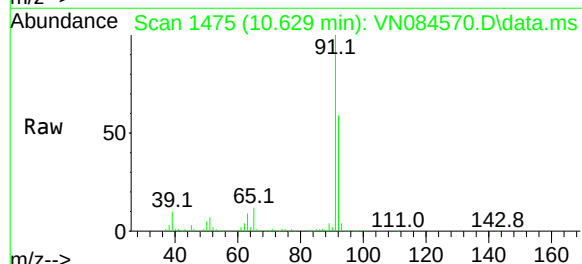
Acq: 30 Oct 2024 11:46

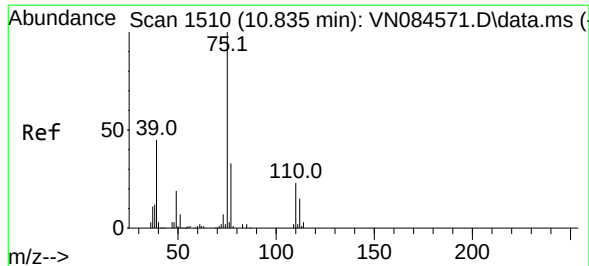
Tgt Ion: 92 Resp: 570832

Ion Ratio Lower Upper

92 100

91 171.3 137.3 205.9





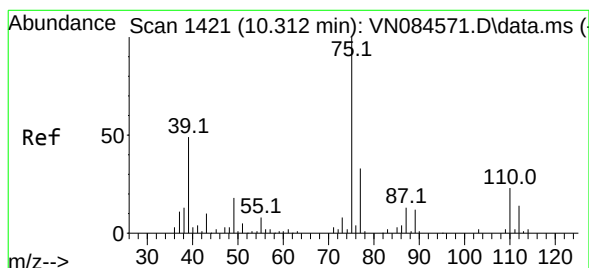
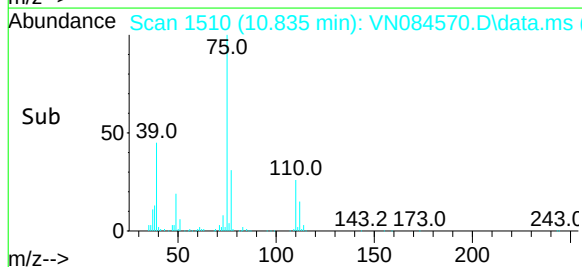
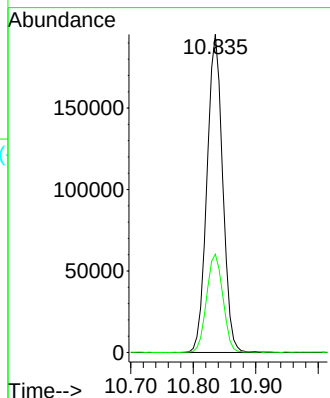
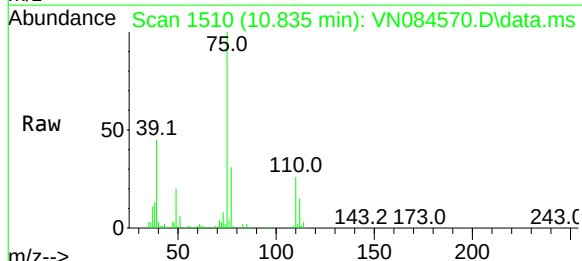
#53
t-1,3-Dichloropropene
Concen: 101.334 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN084570.D
Acq: 30 Oct 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 341196
Ion Ratio Lower Upper
75 100
77 30.9 25.4 38.0

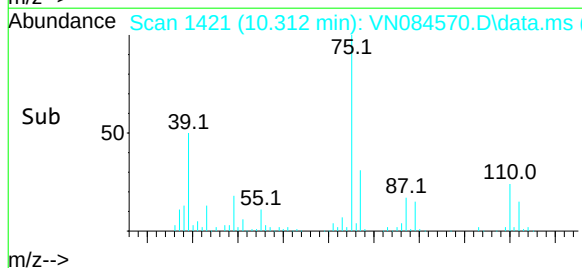
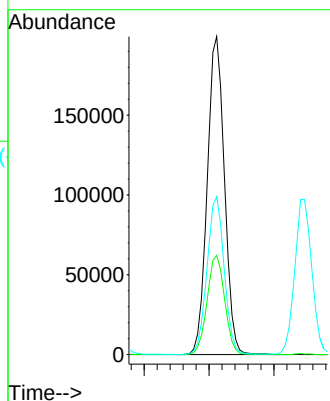
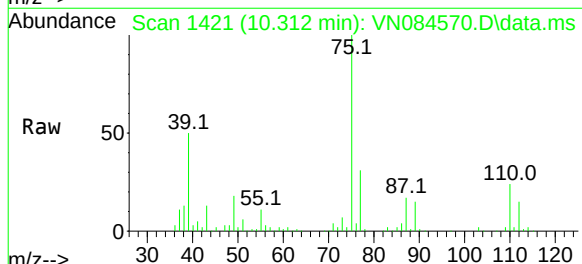
Manual Integrations
APPROVED

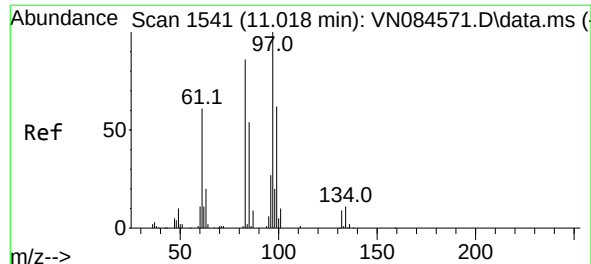
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#54
cis-1,3-Dichloropropene
Concen: 102.804 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN084570.D
Acq: 30 Oct 2024 11:46

Tgt Ion: 75 Resp: 366358
Ion Ratio Lower Upper
75 100
77 31.2 24.2 36.2
39 49.7 38.7 58.1





#55

1,1,2-Trichloroethane

Concen: 101.124 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. 0.006 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 97 Resp: 207689

Ion Ratio Lower Upper

97 100

83 83.6 71.0 106.4

85 53.7 41.7 62.5

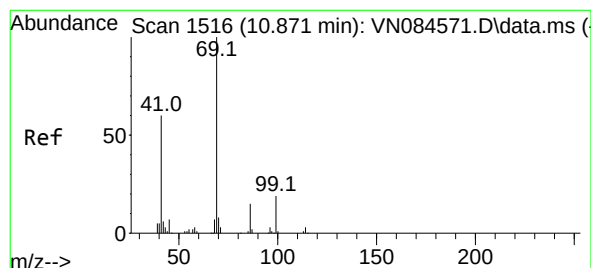
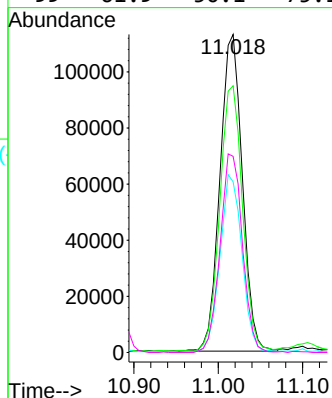
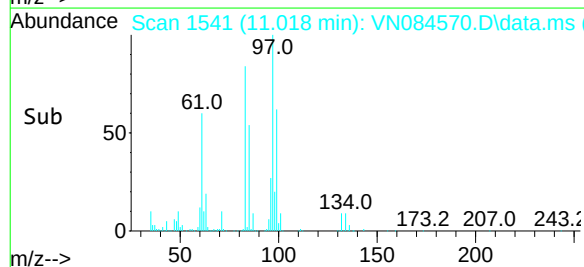
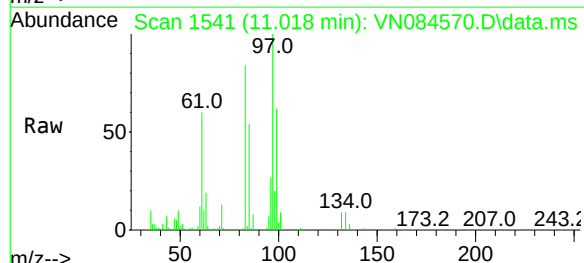
99 61.9 50.1 75.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#56

Ethyl methacrylate

Concen: 114.573 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

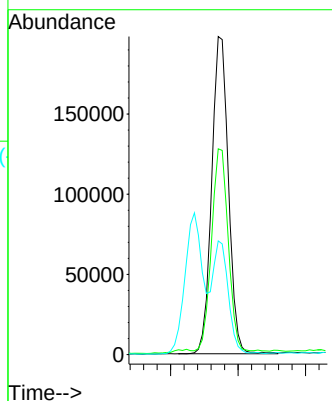
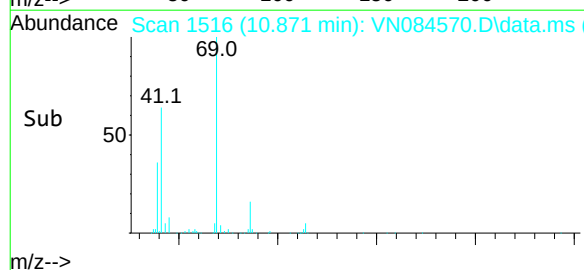
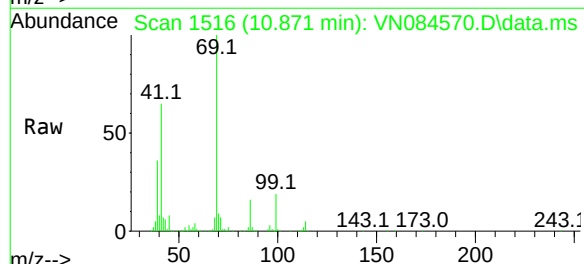
Tgt Ion: 69 Resp: 340367

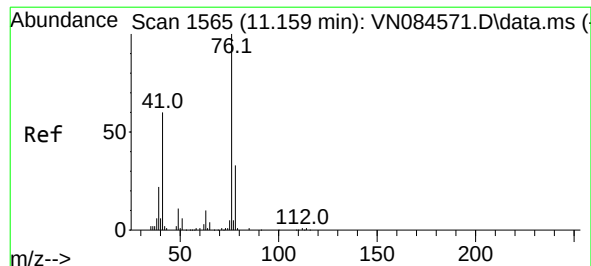
Ion Ratio Lower Upper

69 100

41 63.6 53.3 79.9

39 34.5 28.8 43.2





#57

1,3-Dichloropropane

Concen: 101.320 ug/l

RT: 11.165 min Scan# 1565

Delta R.T. 0.006 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 76 Resp: 357131

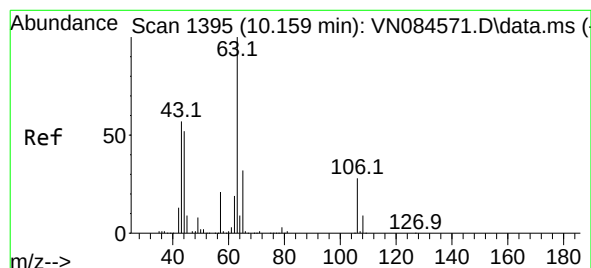
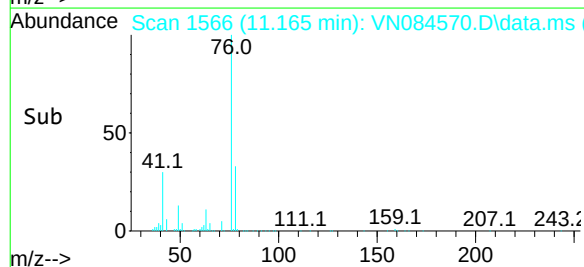
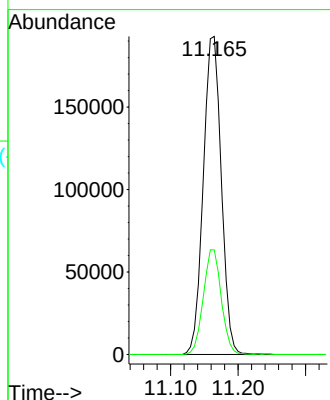
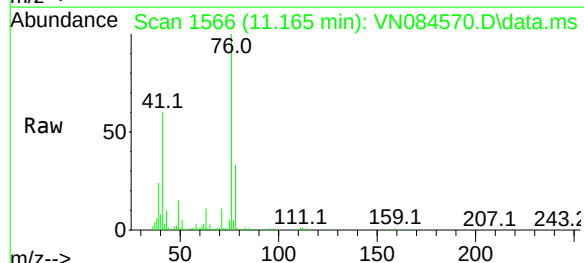
Ion Ratio Lower Upper

76 100

78 32.9 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#58

2-Chloroethyl Vinyl ether

Concen: 611.330 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN084570.D

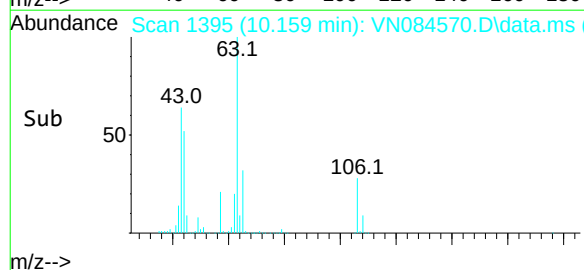
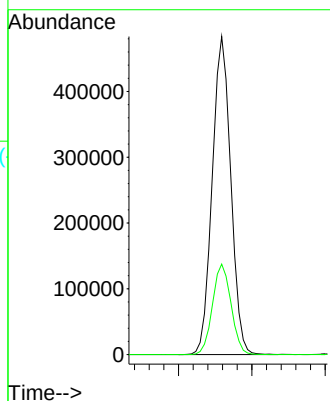
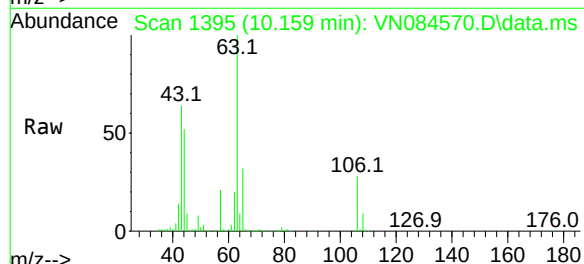
Acq: 30 Oct 2024 11:46

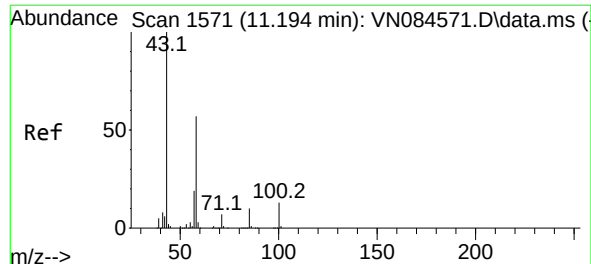
Tgt Ion: 63 Resp: 849817

Ion Ratio Lower Upper

63 100

106 28.4 21.8 32.6





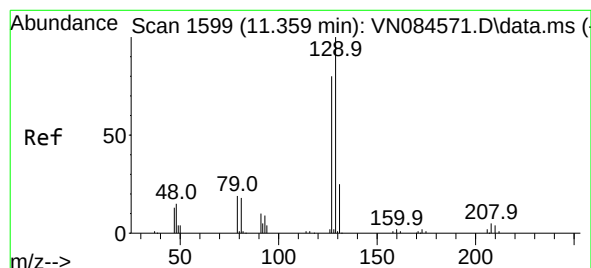
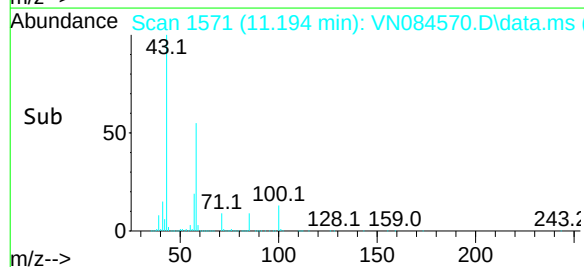
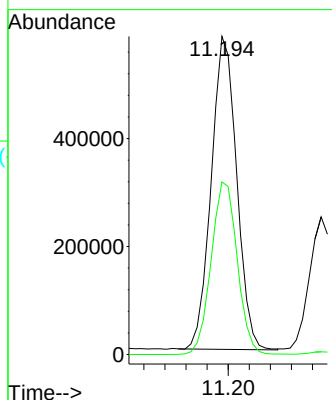
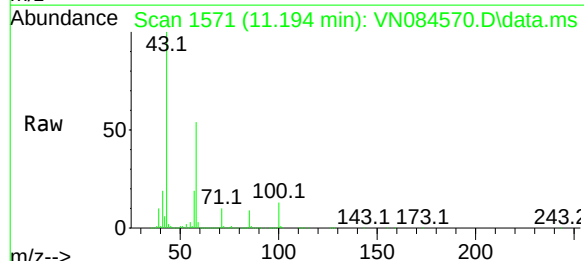
#59
2-Hexanone
Concen: 531.346 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN084570.D
Acq: 30 Oct 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 971064
Ion Ratio Lower Upper
43 100
58 56.6 27.3 81.8

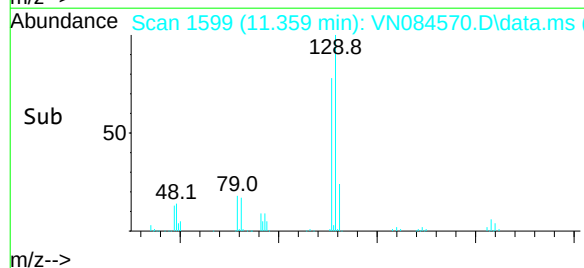
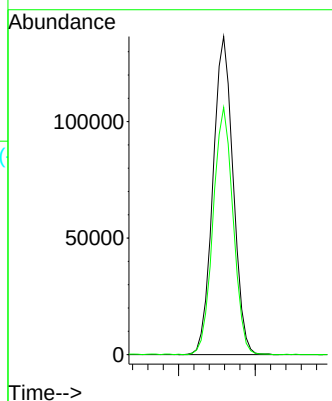
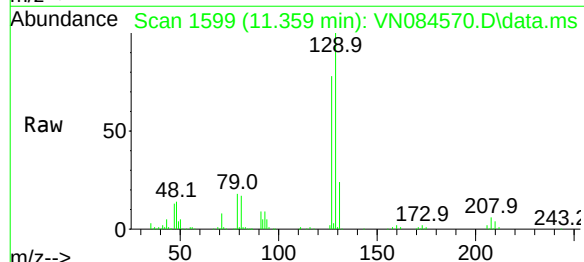
Manual Integrations
APPROVED

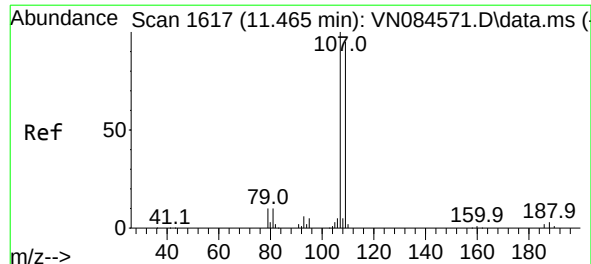
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#60
Dibromochloromethane
Concen: 106.691 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN084570.D
Acq: 30 Oct 2024 11:46

Tgt Ion:129 Resp: 249733
Ion Ratio Lower Upper
129 100
127 77.1 38.3 114.9





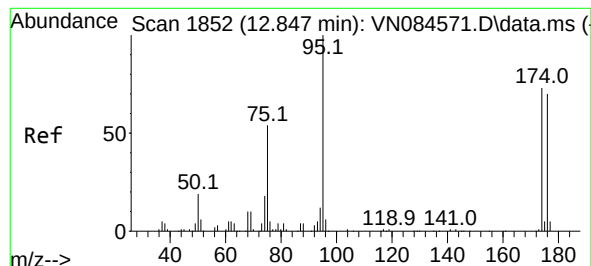
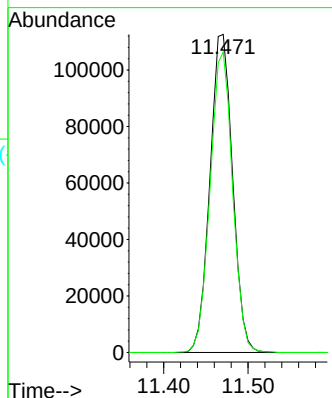
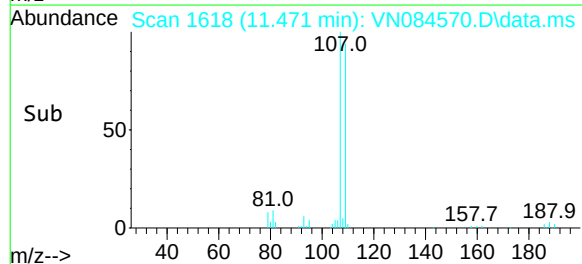
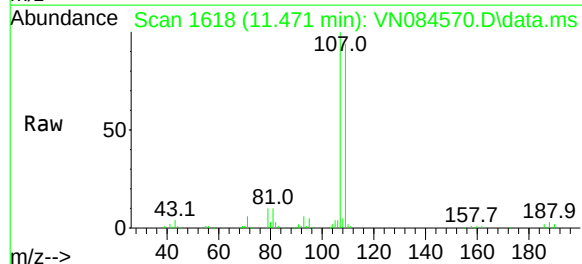
#61
1,2-Dibromoethane
Concen: 99.870 ug/l
RT: 11.471 min Scan# 1617
Delta R.T. 0.006 min
Lab File: VN084570.D
Acq: 30 Oct 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 107 Resp: 210043
Ion Ratio Lower Upper
107 100
109 93.9 75.4 113.0

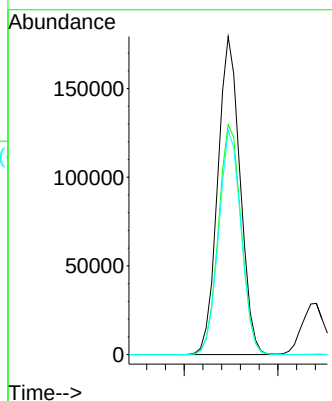
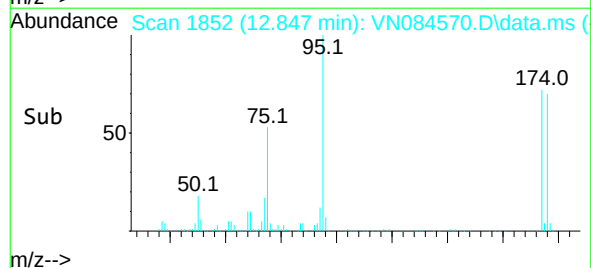
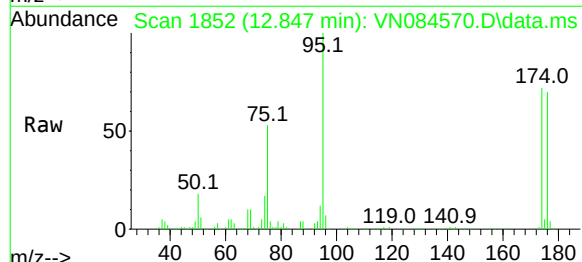
Manual Integrations
APPROVED

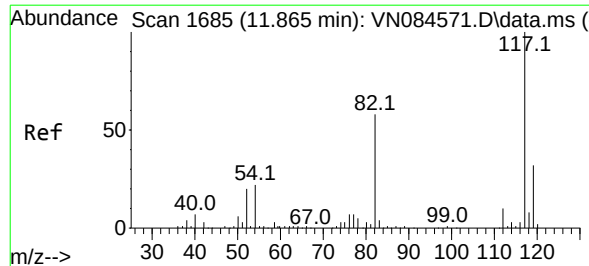
Reviewed By : Semsettin Yesilyurt 11/04/2024
Supervised By : Mahesh Dadoda 11/04/2024



#62
4-Bromofluorobenzene
Concen: 103.292 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084570.D
Acq: 30 Oct 2024 11:46

Tgt Ion: 95 Resp: 297647
Ion Ratio Lower Upper
95 100
174 73.6 0.0 145.2
176 70.7 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:117 Resp: 282514

Ion Ratio Lower Upper

117 100

82 57.3 47.2 70.8

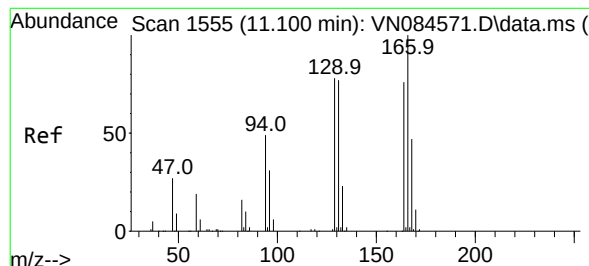
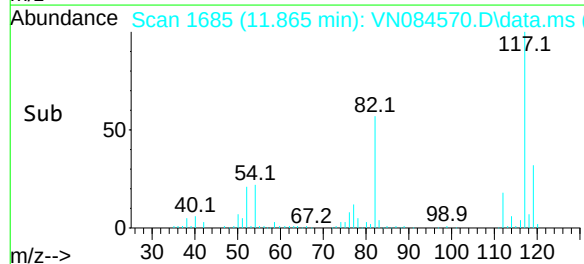
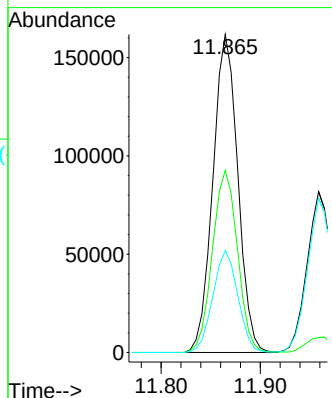
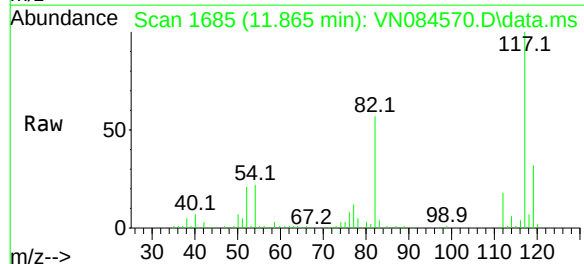
119 32.1 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#64

Tetrachloroethene

Concen: 98.169 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Tgt Ion:164 Resp: 184478

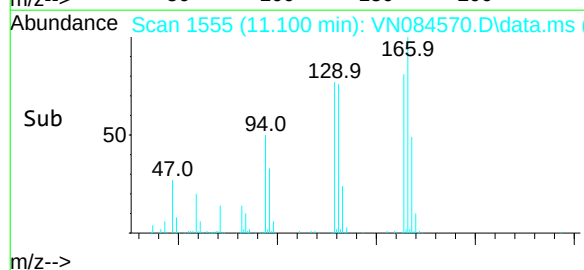
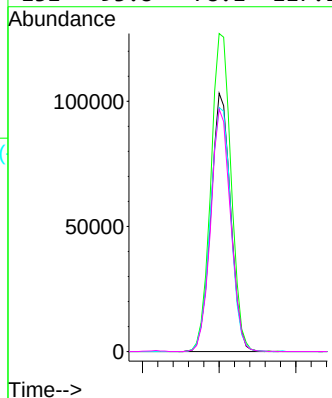
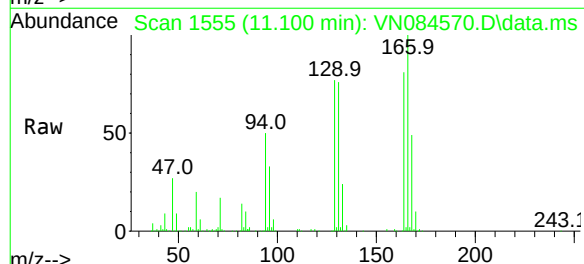
Ion Ratio Lower Upper

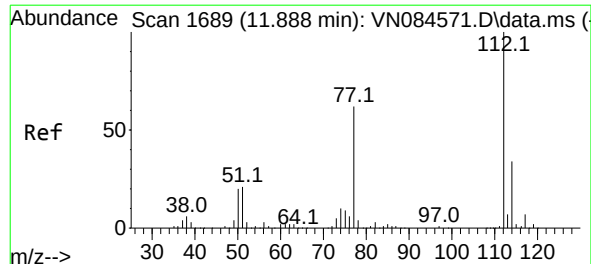
164 100

166 123.1 101.0 151.4

129 94.5 80.8 121.2

131 93.8 78.1 117.1





#65

Chlorobenzene

Concen: 95.500 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:112 Resp: 603595

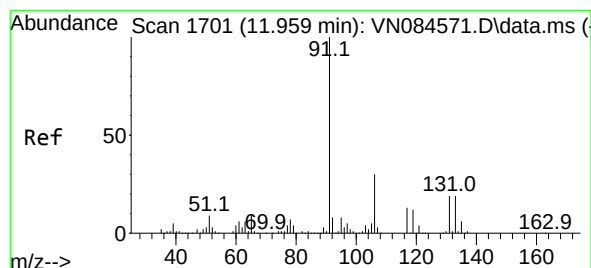
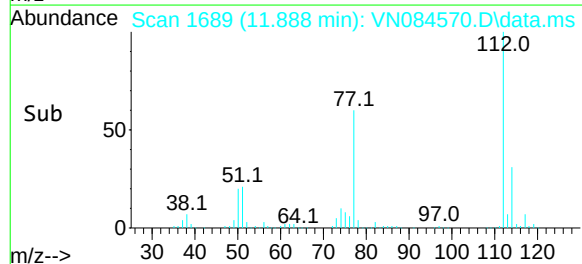
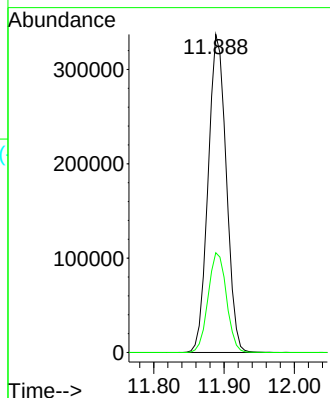
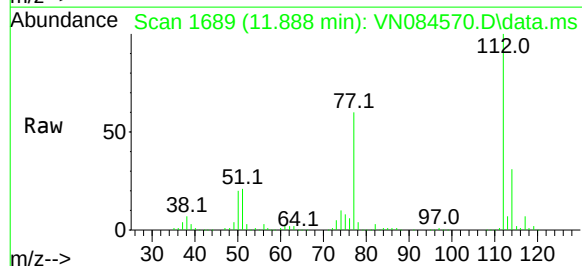
Ion Ratio Lower Upper

112 100

114 31.4 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#66

1,1,1,2-Tetrachloroethane

Concen: 96.458 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

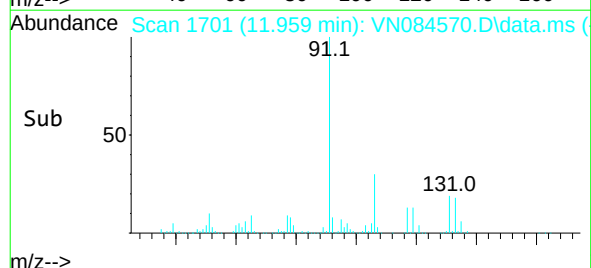
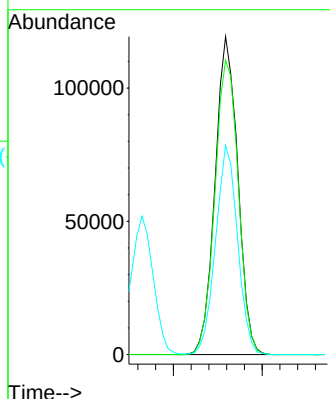
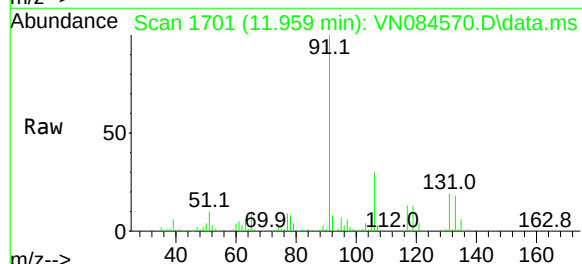
Tgt Ion:131 Resp: 212055

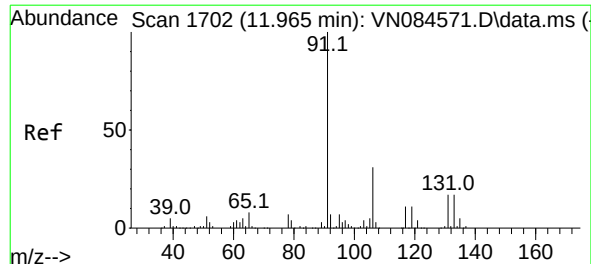
Ion Ratio Lower Upper

131 100

133 95.7 47.9 143.7

119 63.9 32.8 98.3





#67

Ethyl Benzene

Concen: 104.837 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.006 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 1106035

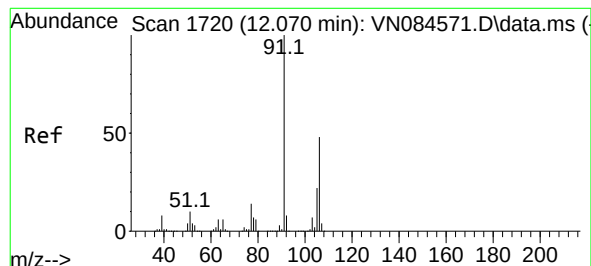
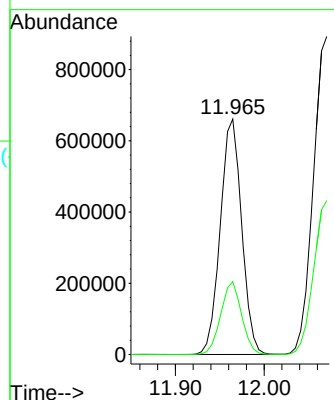
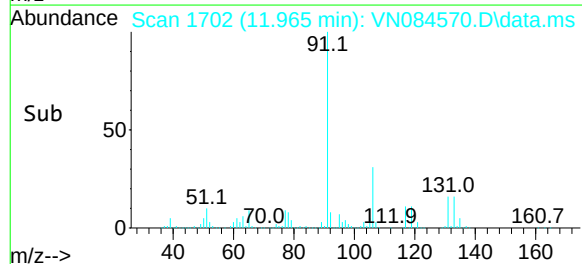
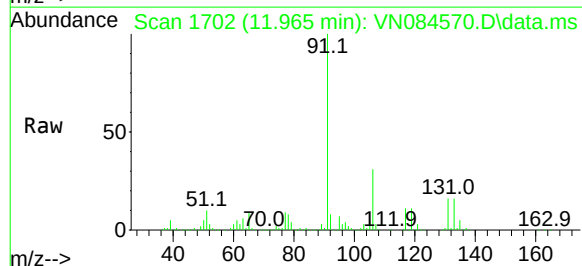
Ion Ratio Lower Upper

91 100

106 30.9 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#68

m/p-Xylenes

Concen: 208.419 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN084570.D

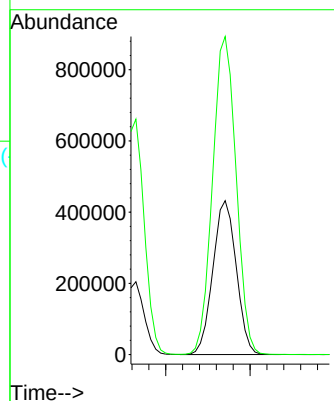
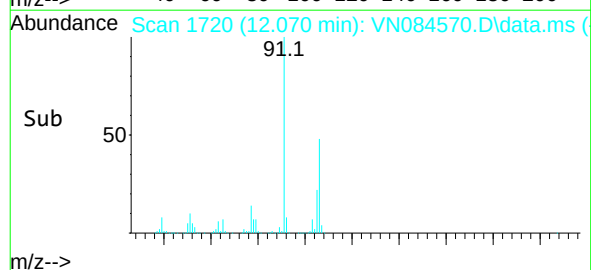
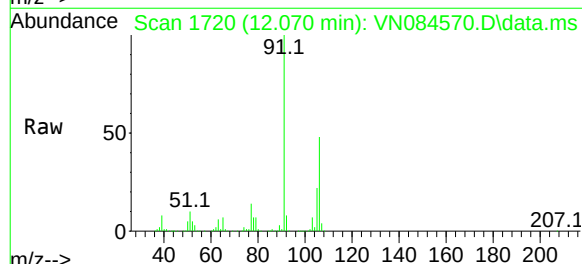
Acq: 30 Oct 2024 11:46

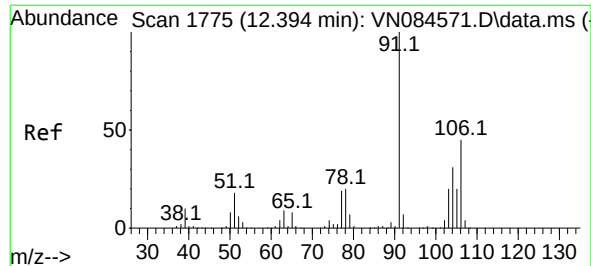
Tgt Ion:106 Resp: 832448

Ion Ratio Lower Upper

106 100

91 208.0 167.1 250.7





#69

o-Xylene

Concen: 106.372 ug/l

RT: 12.400 min Scan# 1775

Delta R.T. 0.006 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:106 Resp: 397449

Ion Ratio Lower Upper

106 100

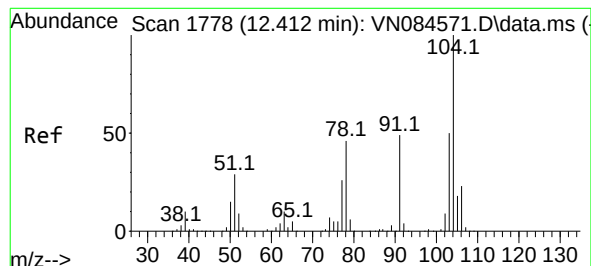
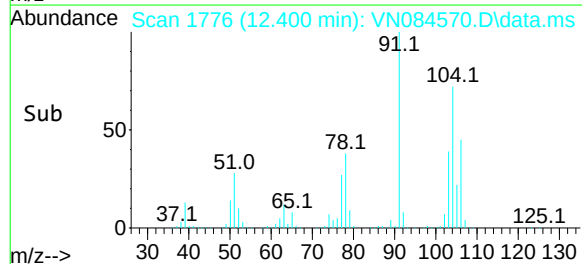
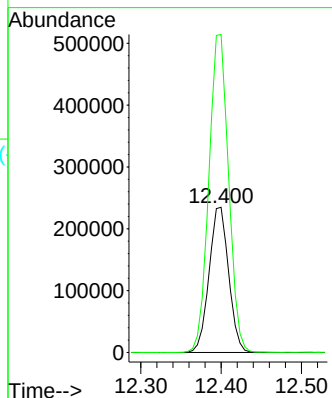
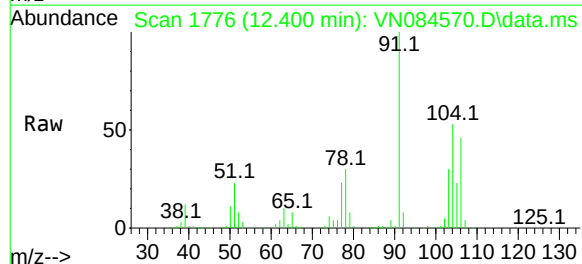
91 220.8 110.2 330.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#70

Styrene

Concen: 106.042 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

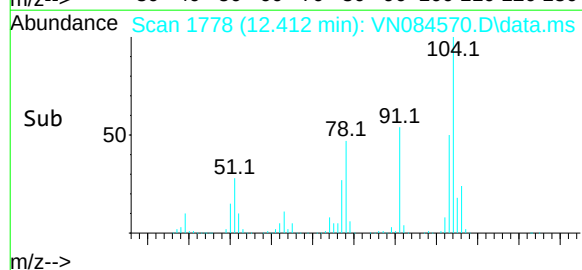
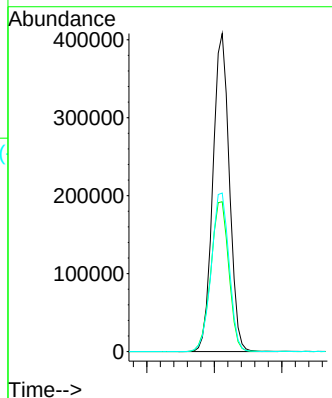
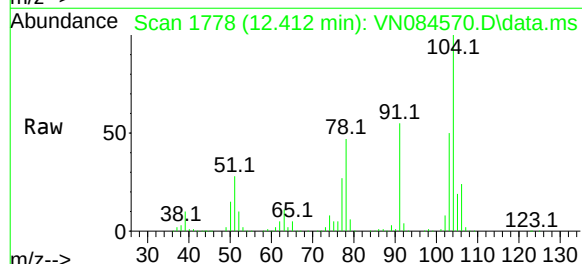
Tgt Ion:104 Resp: 691175

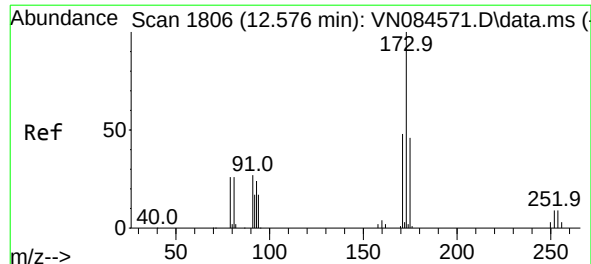
Ion Ratio Lower Upper

104 100

78 51.5 42.7 64.1

103 54.0 43.6 65.4





#71

Bromoform

Concen: 98.044 ug/l

RT: 12.582 min Scan# 18

Delta R.T. 0.006 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:173 Resp: 162189

Ion Ratio Lower Upper

173 100

175 49.3 23.5 70.6

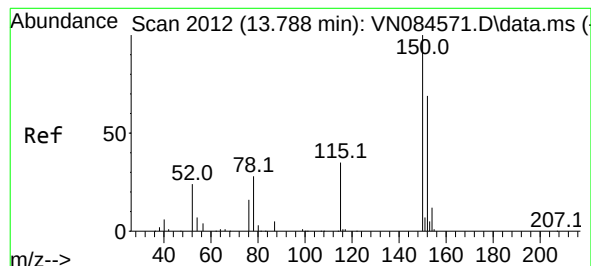
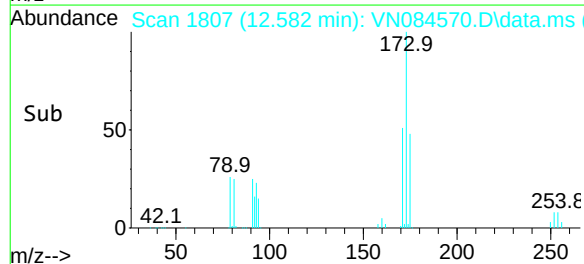
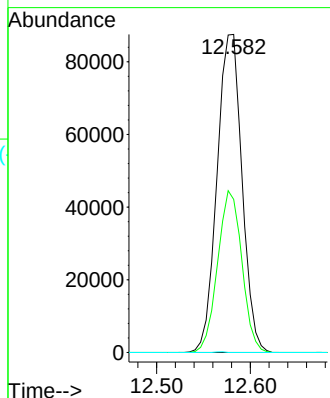
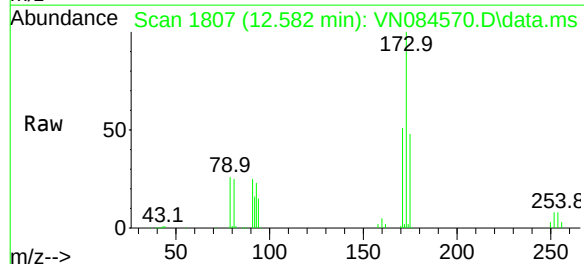
254 0.1 0.0 0.0#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.006 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

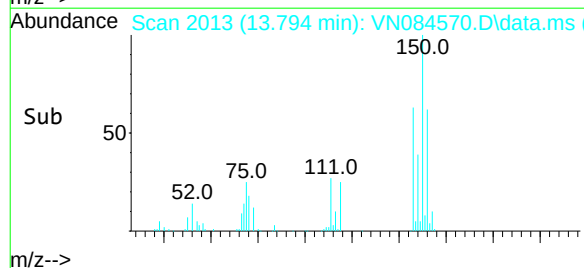
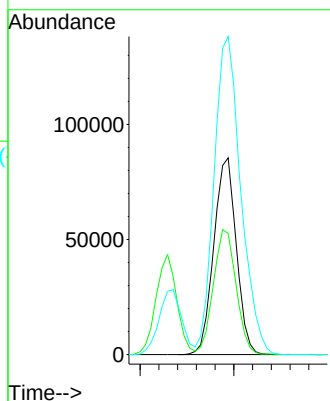
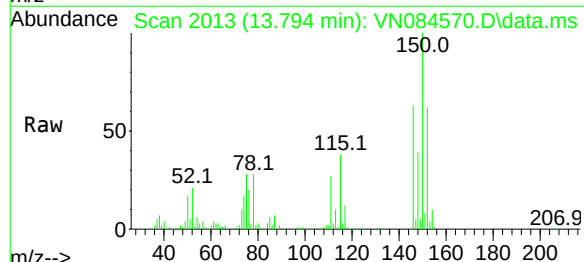
Tgt Ion:152 Resp: 142702

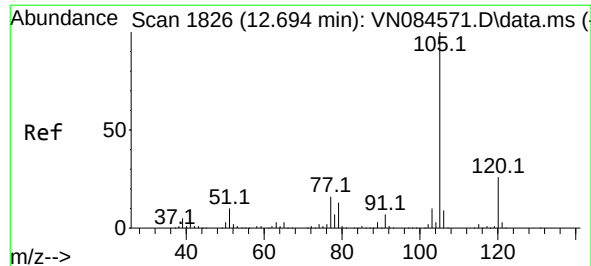
Ion Ratio Lower Upper

152 100

115 64.2 31.3 93.9

150 191.6 0.0 349.8





#73

Isopropylbenzene

Concen: 101.533 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:105 Resp: 1015352

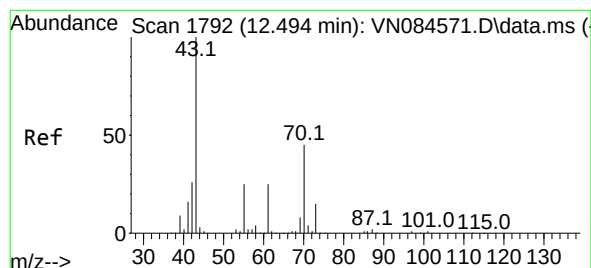
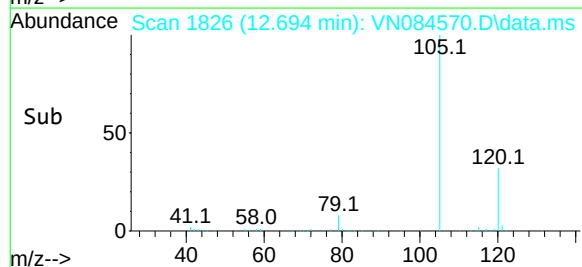
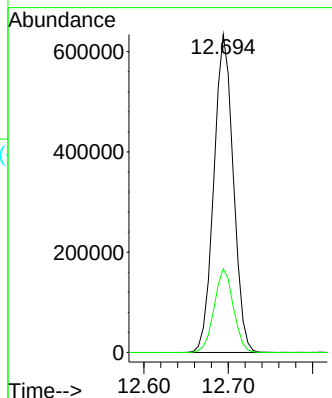
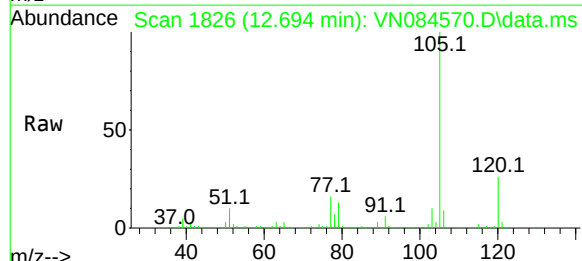
Ion Ratio Lower Upper

105 100

120 26.0 12.9 38.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#74

N-ethyl acetate

Concen: 103.666 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Tgt Ion: 43 Resp: 441232

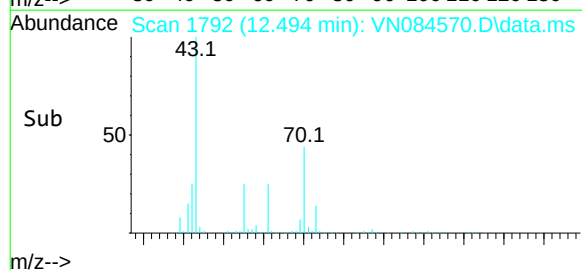
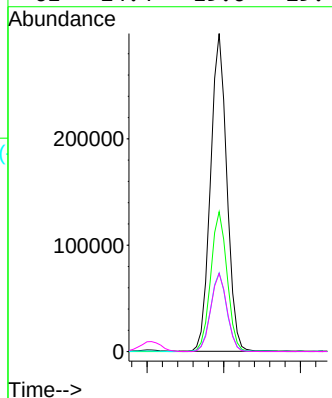
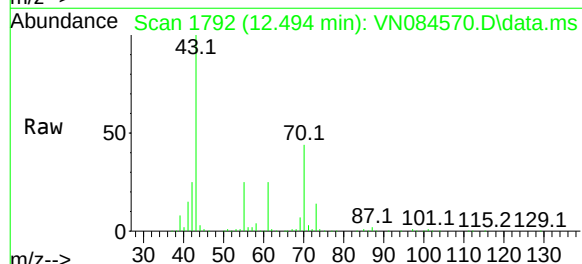
Ion Ratio Lower Upper

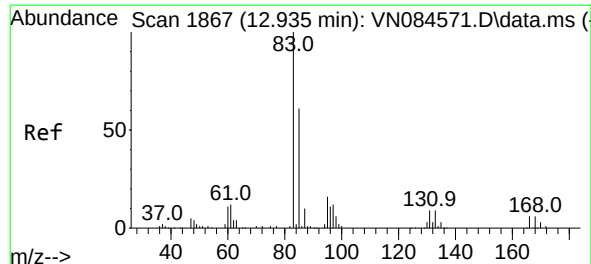
43 100

70 44.2 34.4 51.6

55 25.0 19.6 29.4

61 24.4 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 89.924 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

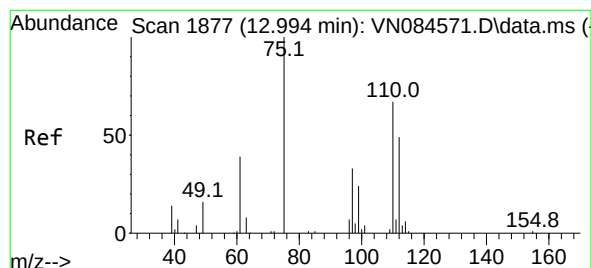
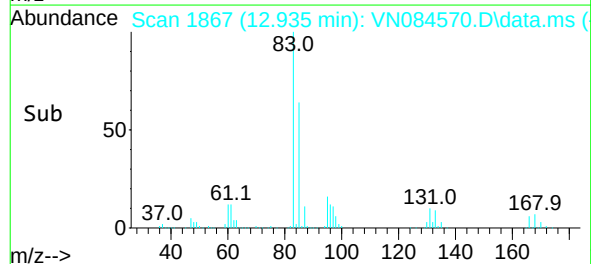
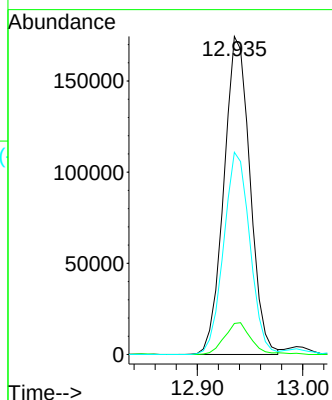
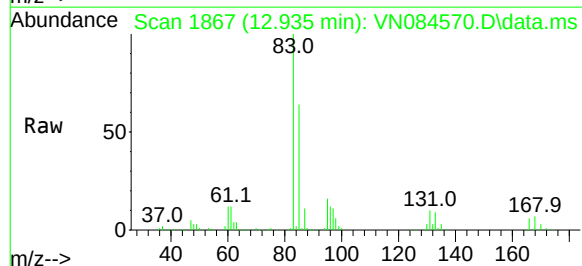
VSTDIC100

Tgt Ion:	83	Resp:	300162
Ion	Ratio	Lower	Upper
83	100		
131	10.3	4.9	14.7
85	64.0	31.9	95.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#76

1,2,3-Trichloropropane

Concen: 88.446 ug/l m

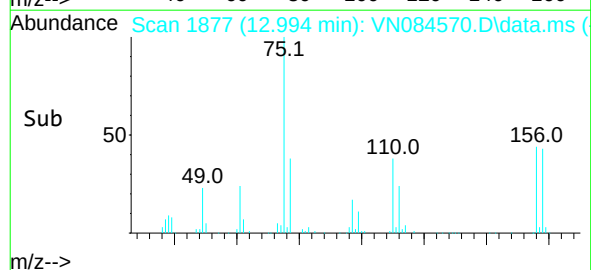
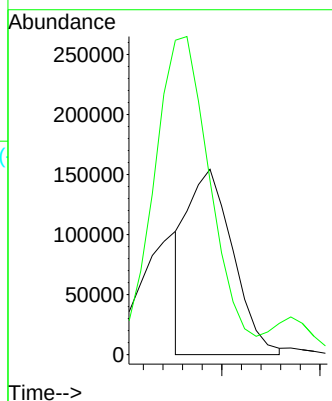
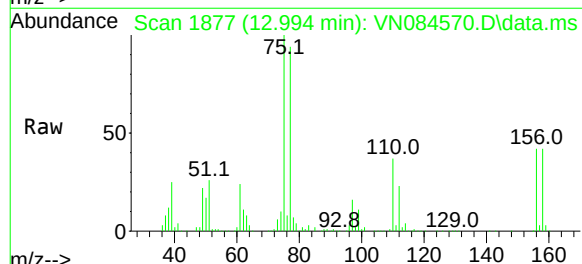
RT: 12.994 min Scan# 1877

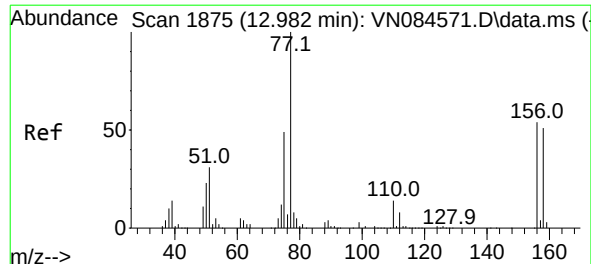
Delta R.T. 0.006 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Tgt Ion:	75	Resp:	249062
Ion	Ratio	Lower	Upper
75	100		
77	214.0	96.9	290.7





#77

Bromobenzene

Concen: 91.341 ug/l

RT: 12.982 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 156 Resp: 245558

Ion Ratio Lower Upper

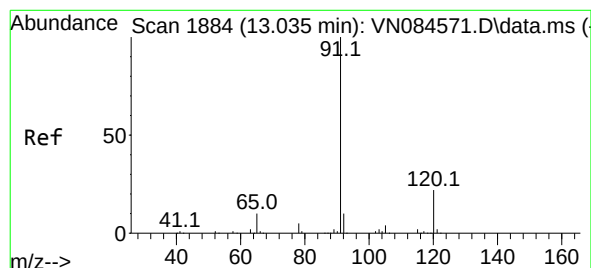
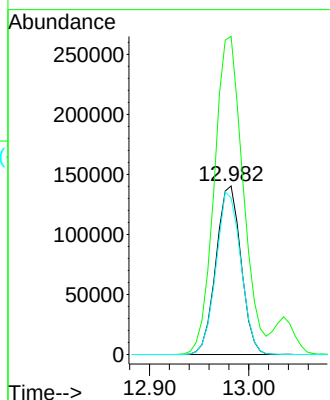
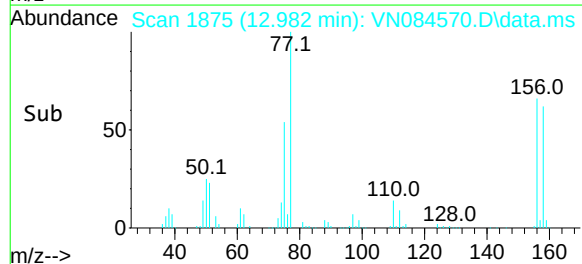
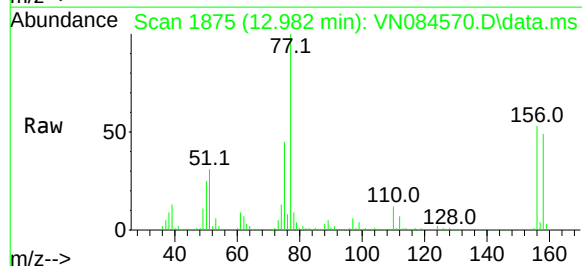
156 100

77 217.0 115.1 345.3

158 96.1 48.9 146.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#78

n-propylbenzene

Concen: 103.100 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.000 min

Lab File: VN084570.D

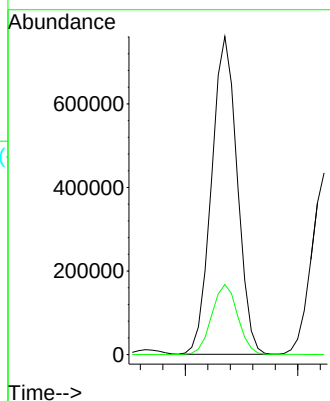
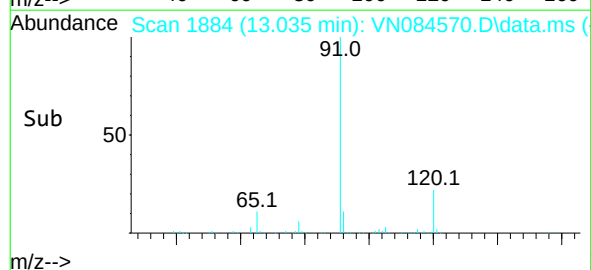
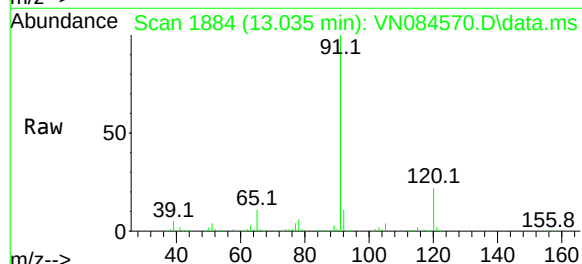
Acq: 30 Oct 2024 11:46

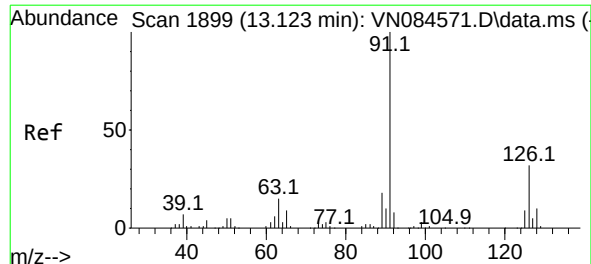
Tgt Ion: 91 Resp: 1208185

Ion Ratio Lower Upper

91 100

120 22.3 10.8 32.4





#79

2-Chlorotoluene

Concen: 96.217 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 736738

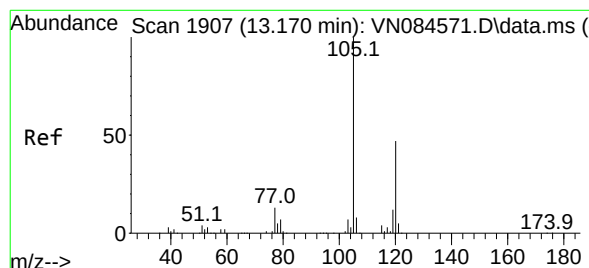
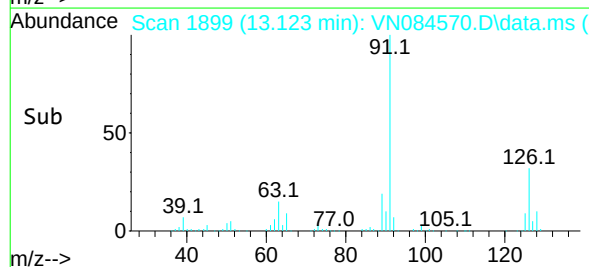
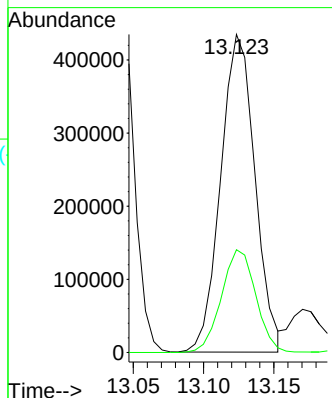
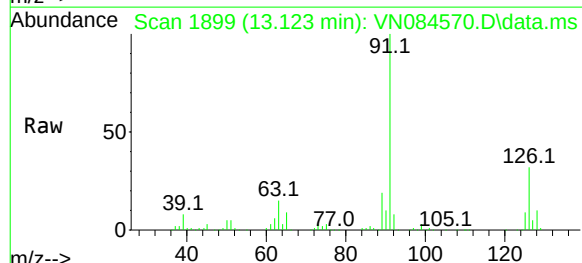
Ion Ratio Lower Upper

91 100

126 32.5 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#80

1,3,5-Trimethylbenzene

Concen: 104.573 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN084570.D

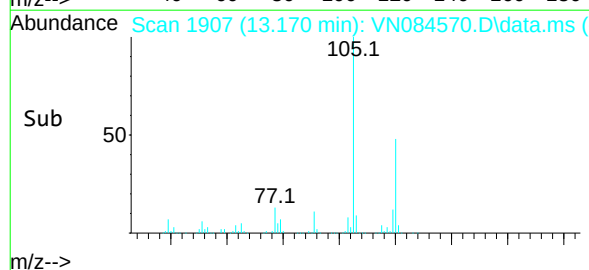
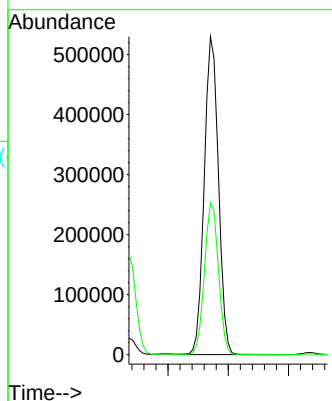
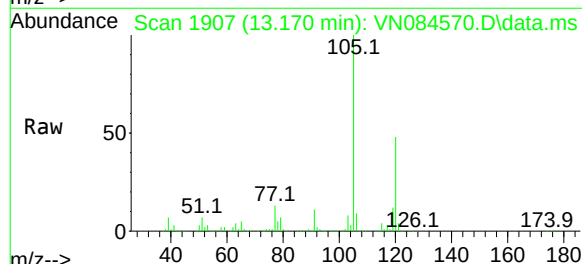
Acq: 30 Oct 2024 11:46

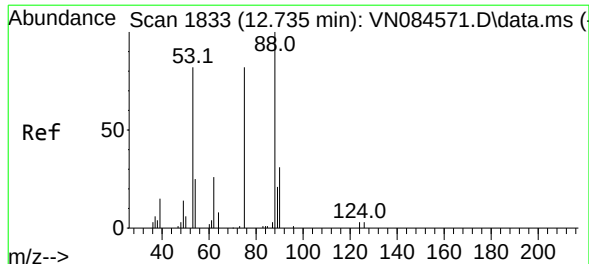
Tgt Ion:105 Resp: 866736

Ion Ratio Lower Upper

105 100

120 47.4 23.7 71.1





#81

trans-1,4-Dichloro-2-butene

Concen: 96.347 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 115847

Ion Ratio Lower Upper

75 100

53 95.8 78.0 117.0

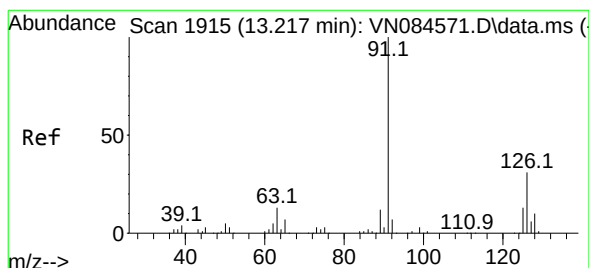
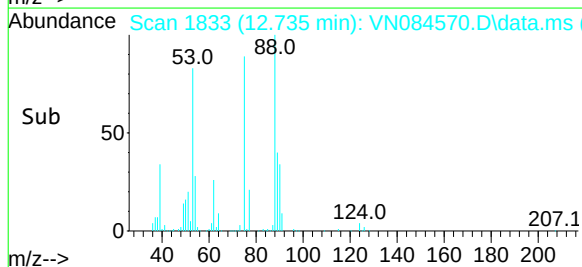
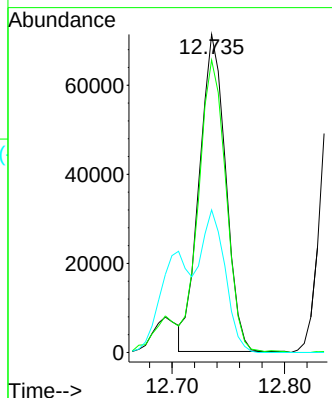
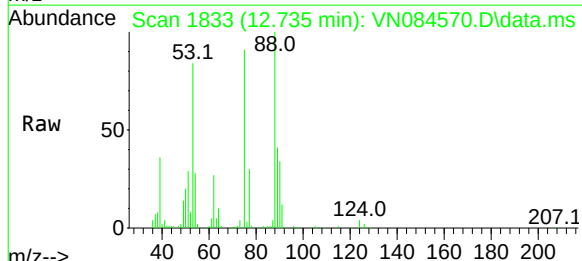
89 42.4 35.5 53.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#82

4-Chlorotoluene

Concen: 94.462 ug/l

RT: 13.217 min Scan# 1915

Delta R.T. -0.000 min

Lab File: VN084570.D

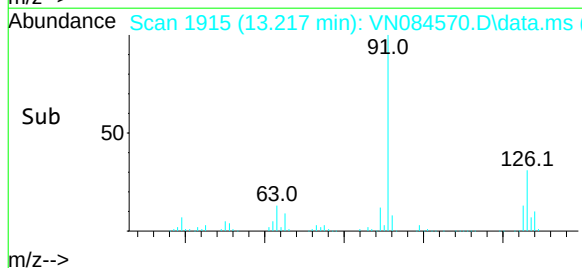
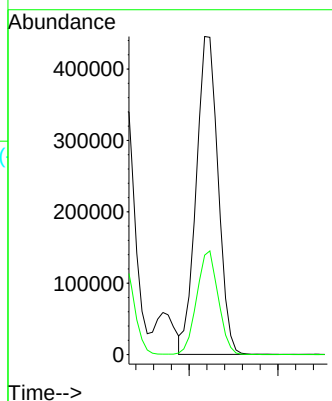
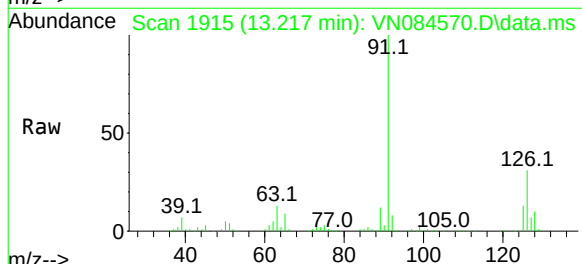
Acq: 30 Oct 2024 11:46

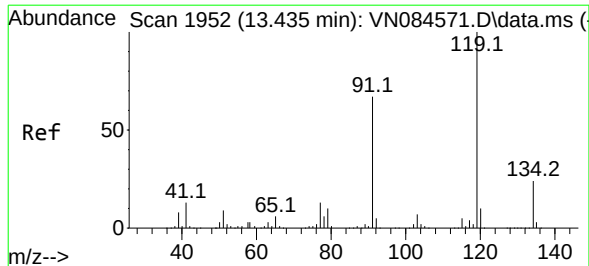
Tgt Ion: 91 Resp: 761196

Ion Ratio Lower Upper

91 100

126 32.2 15.7 47.1





#83

tert-Butylbenzene

Concen: 108.888 ug/l

RT: 13.435 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:119 Resp: 746926

Ion Ratio Lower Upper

119 100

91 67.1 34.1 102.3

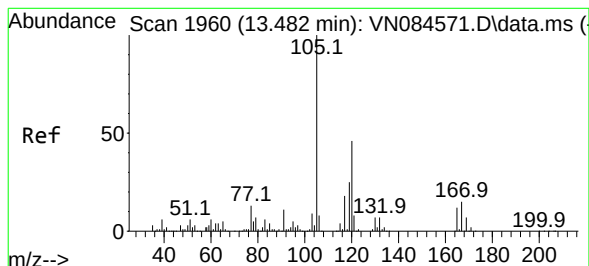
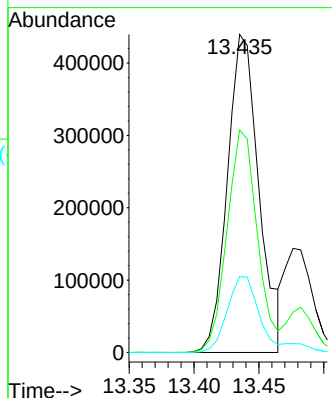
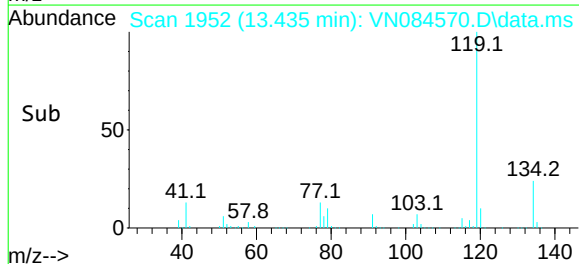
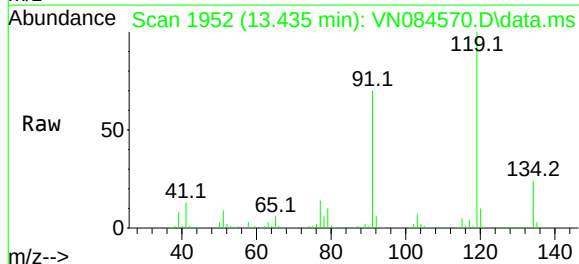
134 25.9 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#84

1,2,4-Trimethylbenzene

Concen: 105.136 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. -0.000 min

Lab File: VN084570.D

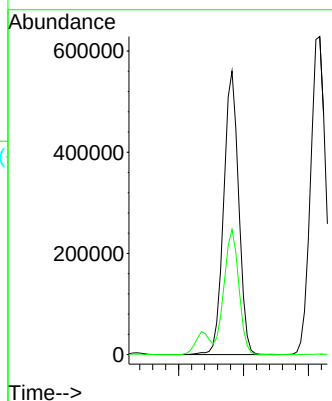
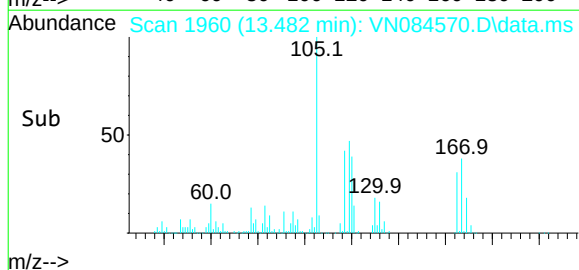
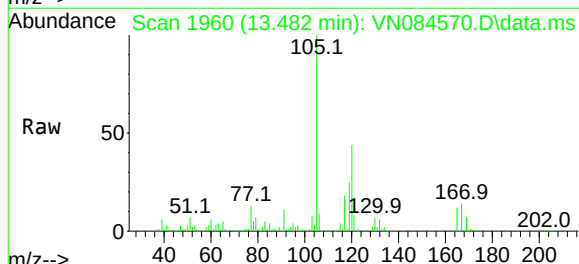
Acq: 30 Oct 2024 11:46

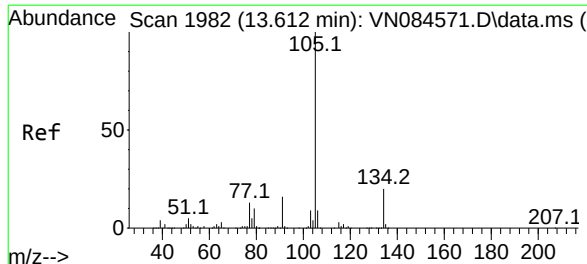
Tgt Ion:105 Resp: 899374

Ion Ratio Lower Upper

105 100

120 43.7 22.3 66.8





#85

sec-Butylbenzene

Concen: 106.032 ug/l

RT: 13.617 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:105 Resp: 1027413

Ion Ratio Lower Upper

105 100

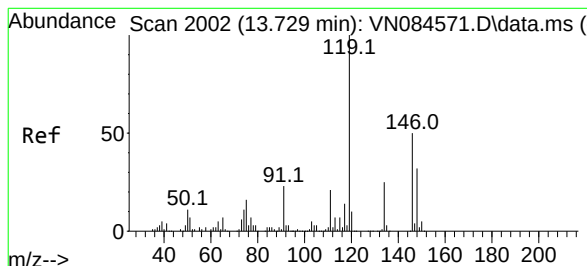
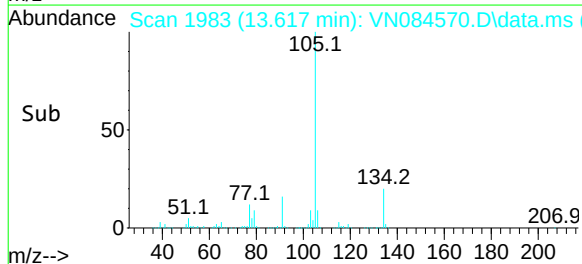
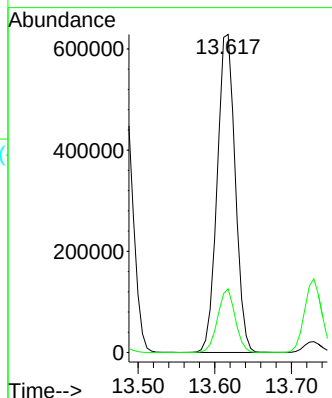
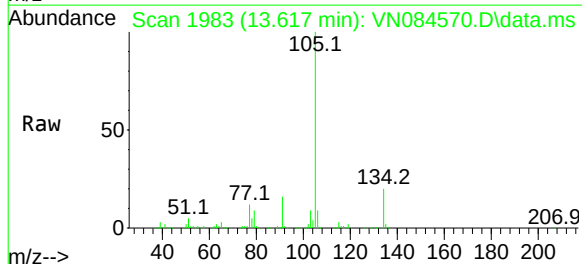
134 19.4 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#86

p-Isopropyltoluene

Concen: 110.451 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

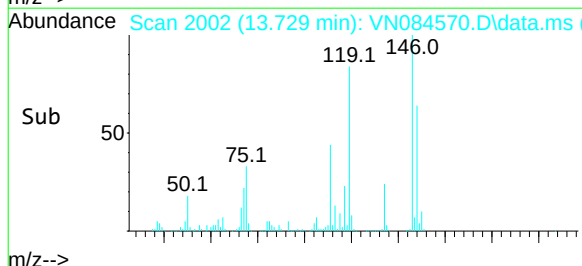
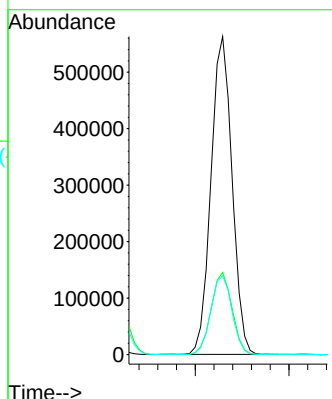
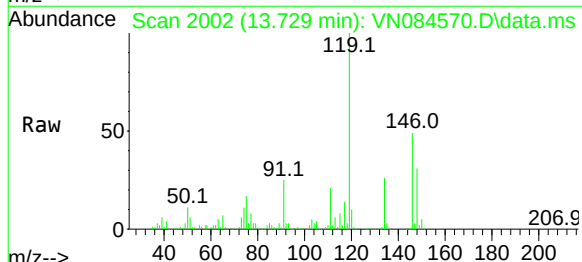
Tgt Ion:119 Resp: 877717

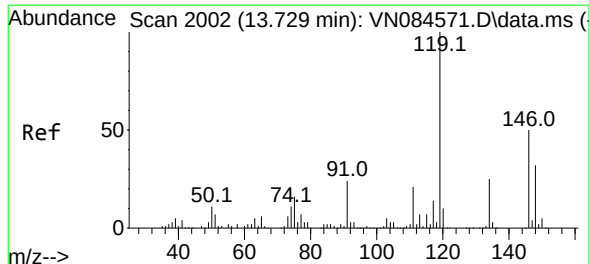
Ion Ratio Lower Upper

119 100

134 25.7 12.6 37.8

91 24.9 12.4 37.2





#87

1,3-Dichlorobenzene

Concen: 89.320 ug/l

RT: 13.735 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 468620

Ion Ratio Lower Upper

146 100

111 42.6 21.8 65.3

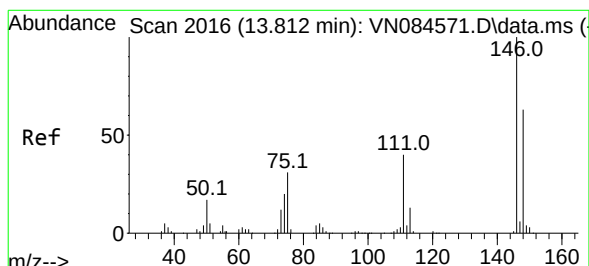
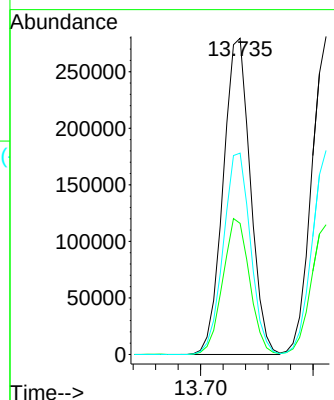
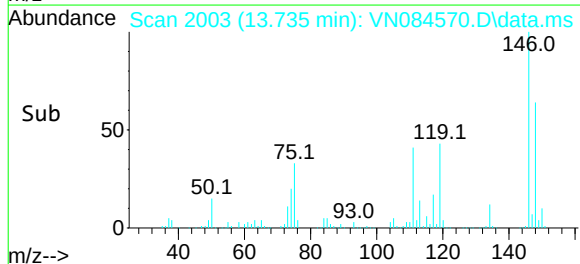
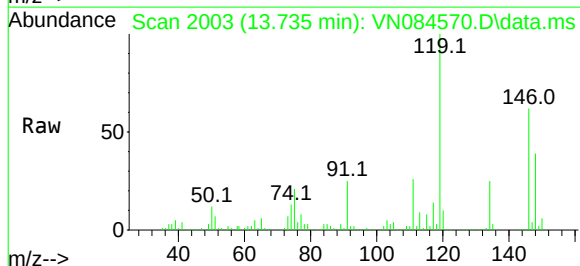
148 63.8 31.9 95.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#88

1,4-Dichlorobenzene

Concen: 100.067 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

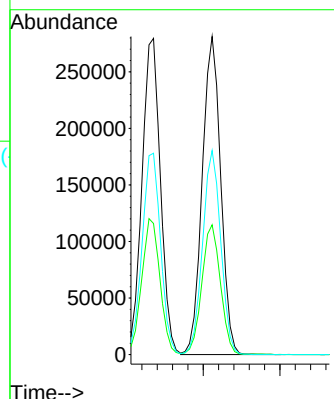
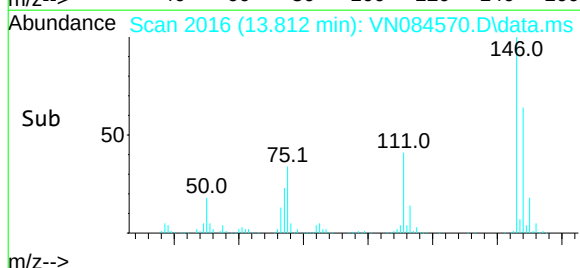
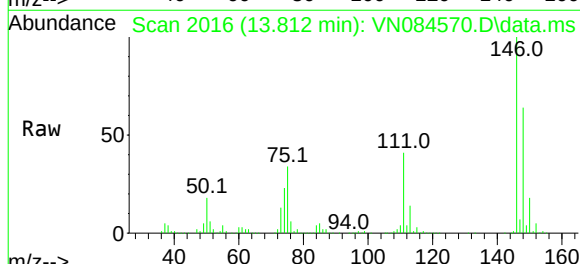
Tgt Ion:146 Resp: 469714

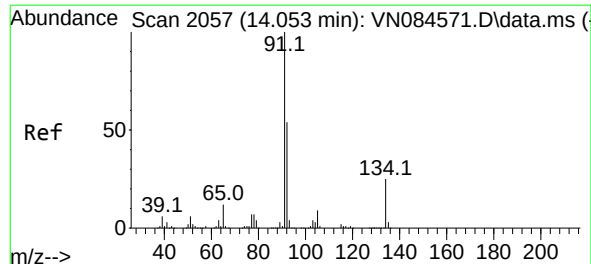
Ion Ratio Lower Upper

146 100

111 40.9 21.2 63.6

148 63.1 31.9 95.9





#89

n-Butylbenzene

Concen: 104.727 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

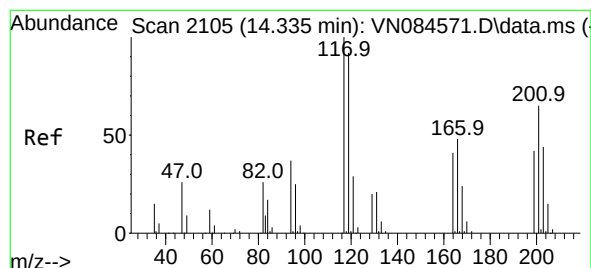
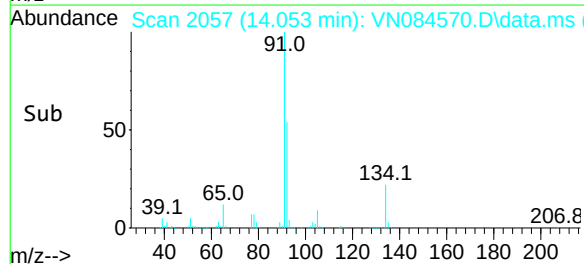
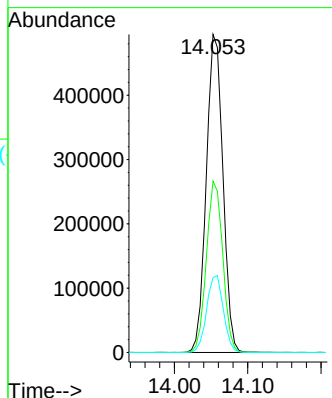
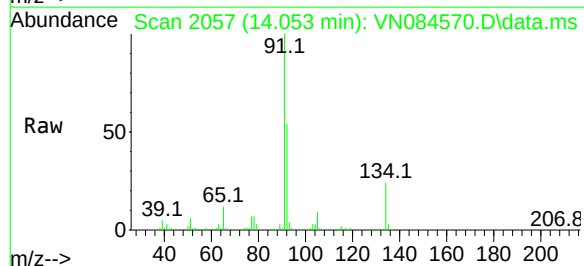
VSTDIC100

Tgt Ion:	91	Resp:	778487
Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.6	79.7
134	24.3	12.3	36.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#90

Hexachloroethane

Concen: 93.123 ug/l

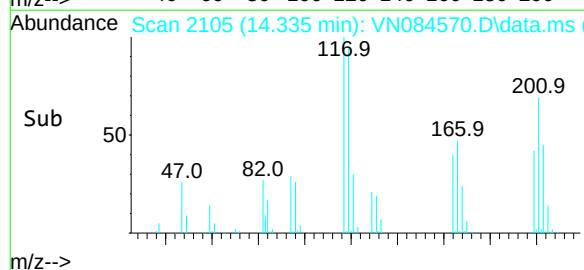
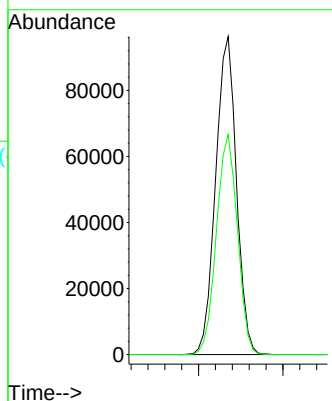
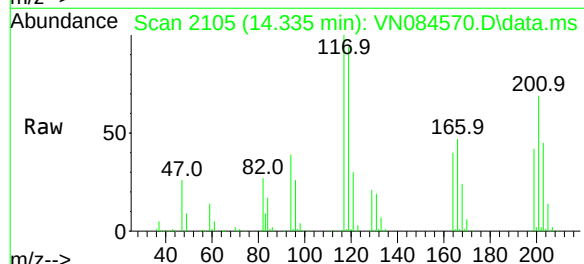
RT: 14.335 min Scan# 2105

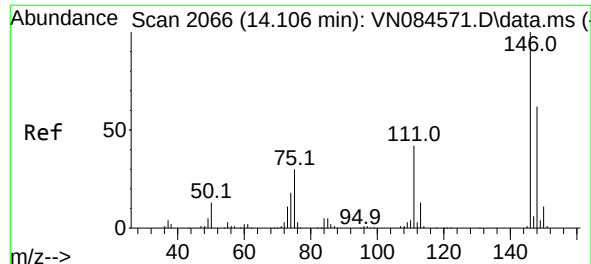
Delta R.T. 0.006 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Tgt Ion:	117	Resp:	165030
Ion	Ratio	Lower	Upper
117	100		
201	69.8	34.4	103.2





#91

1,2-Dichlorobenzene

Concen: 90.631 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

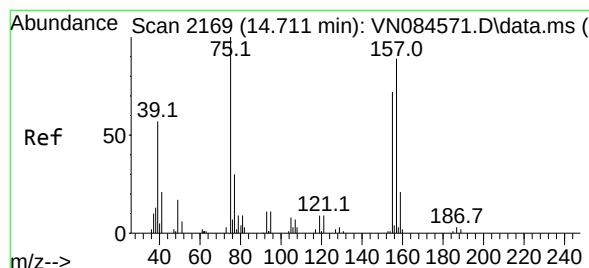
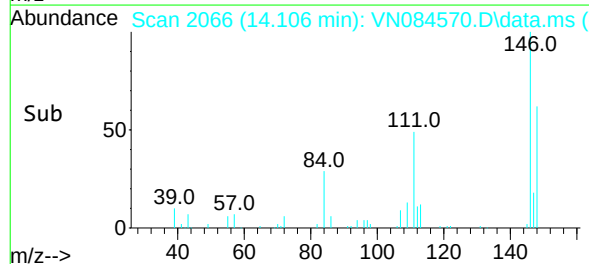
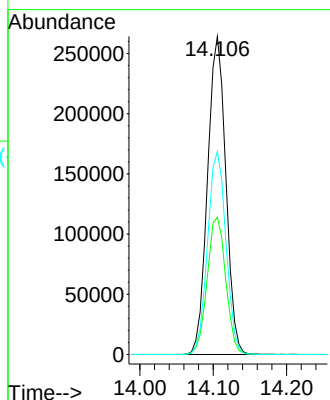
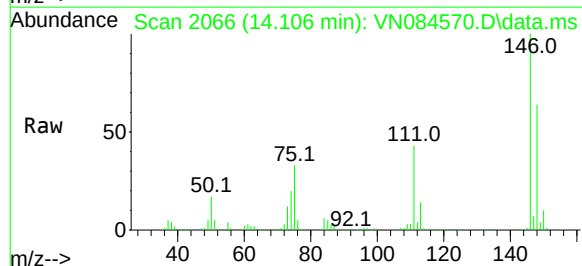
VSTDIC100

Tgt Ion:	146	Resp:	456925
Ion Ratio	Lower	Upper	
146	100		
111	43.9	22.0	66.0
148	64.2	32.1	96.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 86.136 ug/l

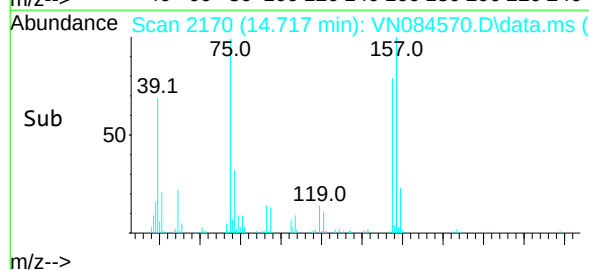
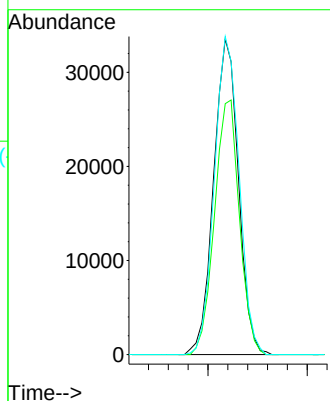
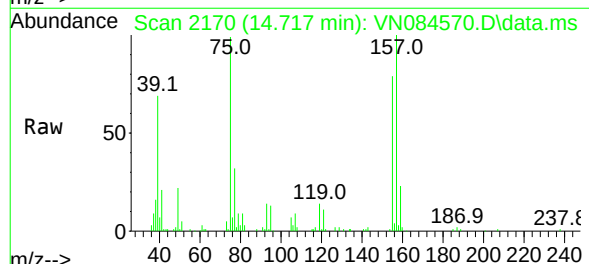
RT: 14.717 min Scan# 2170

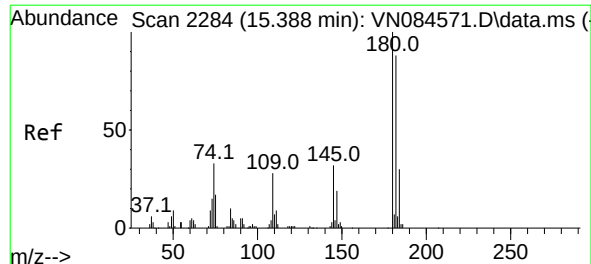
Delta R.T. 0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Tgt Ion:	75	Resp:	58247
Ion Ratio	Lower	Upper	
75	100		
155	81.0	38.1	114.5
157	100.4	49.6	149.0





#93

1,2,4-Trichlorobenzene

Concen: 88.091 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:180 Resp: 243087

Ion Ratio Lower Upper

180 100

182 95.6 47.0 141.0

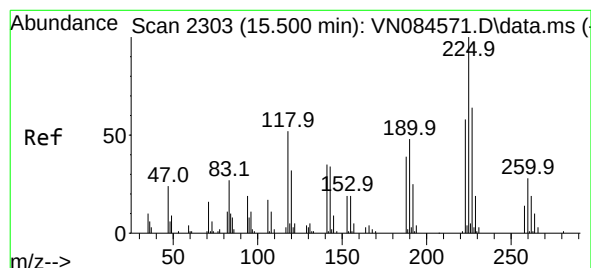
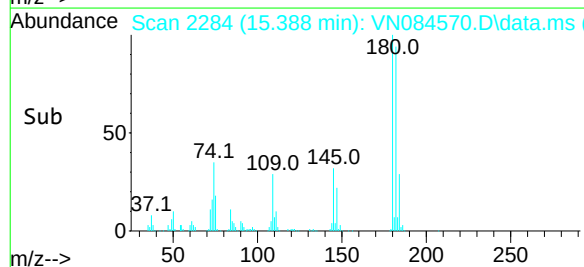
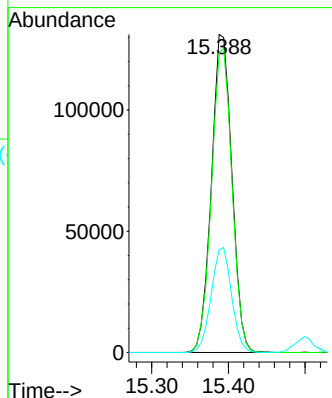
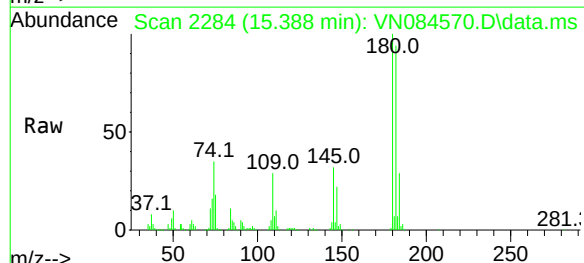
145 32.9 16.4 49.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#94

Hexachlorobutadiene

Concen: 84.631 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

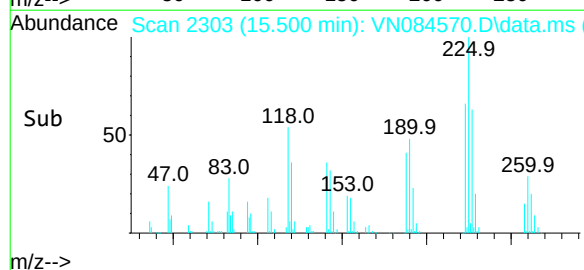
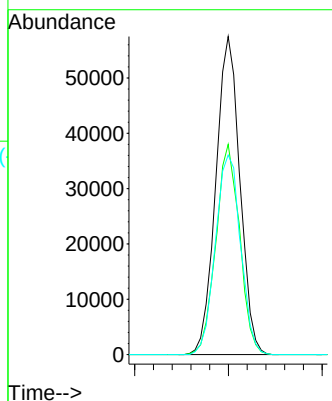
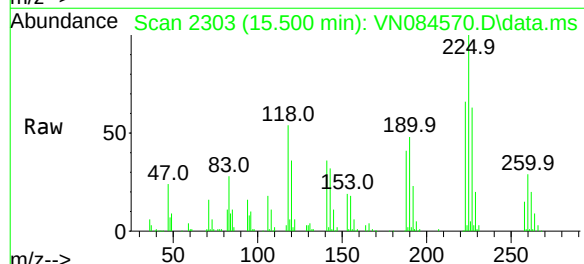
Tgt Ion:225 Resp: 102558

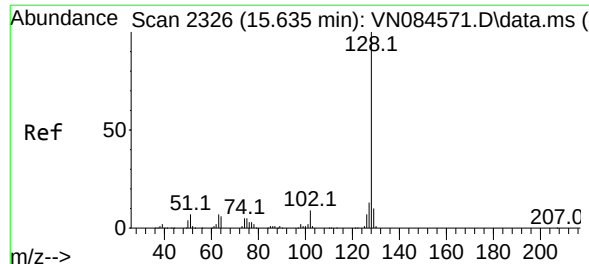
Ion Ratio Lower Upper

225 100

223 65.1 32.4 97.2

227 65.6 32.4 97.0





#95

Naphthalene

Concen: 95.997 ug/l

RT: 15.641 min Scan# 23

Delta R.T. 0.006 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

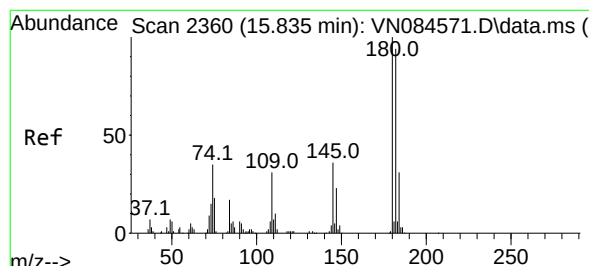
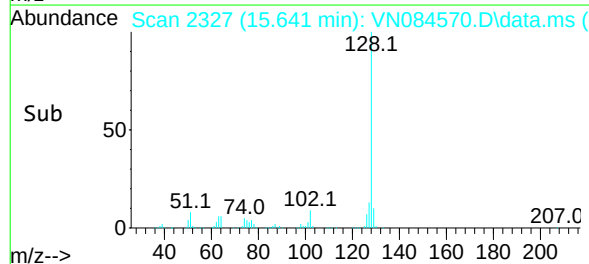
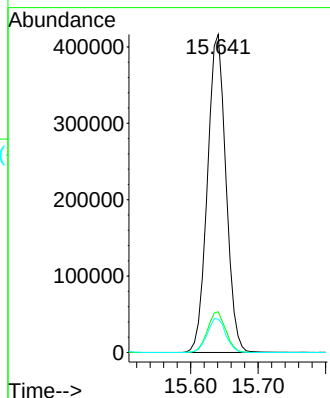
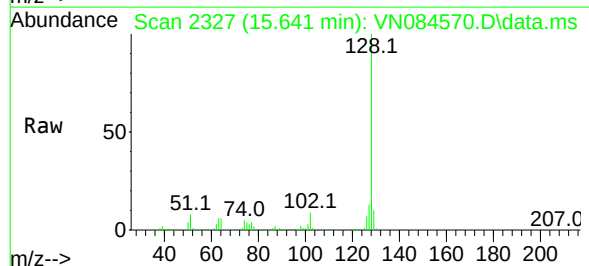
VSTDICC100

Tgt Ion:	128	Resp:	792903
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	10.8	8.7	13.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#96

1,2,3-Trichlorobenzene

Concen: 88.667 ug/l

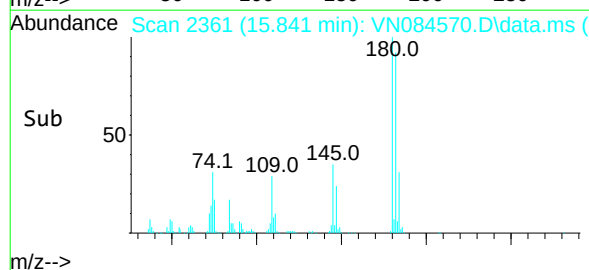
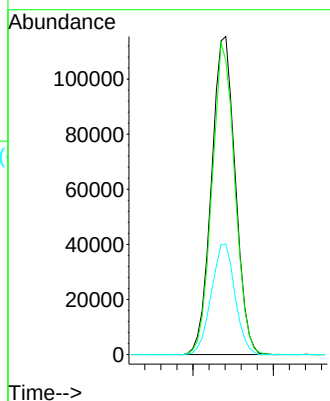
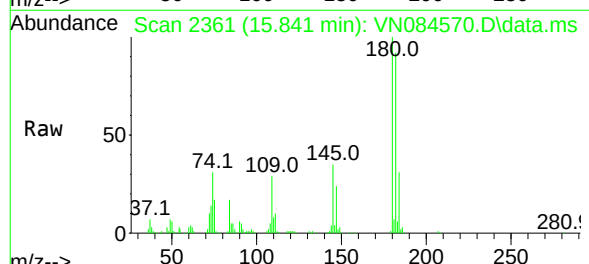
RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN084570.D

Acq: 30 Oct 2024 11:46

Tgt Ion:	180	Resp:	237515
Ion	Ratio	Lower	Upper
180	100		
182	93.9	48.2	144.6
145	34.6	17.3	51.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084571.D
 Acq On : 30 Oct 2024 12:09
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:18:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:18:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	186594	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	311554	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	279228	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	138307	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	134521	49.914	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.820%
35) Dibromofluoromethane	8.165	113	107131	50.801	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.600%
50) Toluene-d8	10.565	98	405874	52.247	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.500%
62) 4-Bromofluorobenzene	12.847	95	153622	52.913	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	105.820%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	103092	48.061	ug/l	97
3) Chloromethane	2.365	50	125344	49.788	ug/l	95
4) Vinyl Chloride	2.512	62	112961	48.962	ug/l	95
5) Bromomethane	2.901	94	55194	45.153	ug/l	100
6) Chloroethane	3.071	64	70126	49.078	ug/l	96
7) Trichlorofluoromethane	3.471	101	178947	47.086	ug/l	97
8) Diethyl Ether	3.953	74	65946	49.190	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.353	101	103864	48.366	ug/l	98
10) Methyl Iodide	4.583	142	137274	47.829	ug/l	97
11) Tert butyl alcohol	5.536	59	80598	226.565	ug/l	100
12) 1,1-Dichloroethene	4.324	96	100445	47.270	ug/l	96
13) Acrolein	4.171	56	82129	231.524	ug/l	99
14) Allyl chloride	5.012	41	171045	49.635	ug/l	92
15) Acrylonitrile	5.718	53	252853	245.525	ug/l	98
16) Acetone	4.424	43	189949	243.925	ug/l	99
17) Carbon Disulfide	4.700	76	299041	45.698	ug/l	99
18) Methyl Acetate	5.024	43	139826	49.097	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	328099	50.376	ug/l	97
20) Methylene Chloride	5.271	84	112282	47.370	ug/l	92
21) trans-1,2-Dichloroethene	5.777	96	105050	48.146	ug/l	96
22) Diisopropyl ether	6.671	45	346126	50.549	ug/l	98
23) Vinyl Acetate	6.600	43	1212022	256.673	ug/l	99
24) 1,1-Dichloroethane	6.559	63	198817	48.362	ug/l	100
25) 2-Butanone	7.483	43	294207	233.994	ug/l	98
26) 2,2-Dichloropropane	7.483	77	175511	49.052	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	123436	48.450	ug/l	97
28) Bromochloromethane	7.812	49	95269	58.166	ug/l	95
29) Tetrahydrofuran	7.835	42	206980	248.139	ug/l	97
30) Chloroform	7.965	83	202589	48.417	ug/l	98
31) Cyclohexane	8.253	56	175038	47.043	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	184986	48.573	ug/l	98
36) 1,1-Dichloropropene	8.365	75	140593	48.071	ug/l	99
37) Ethyl Acetate	7.553	43	131332	49.493	ug/l	99
38) Carbon Tetrachloride	8.359	117	160134	48.985	ug/l	97
39) Methylcyclohexane	9.600	83	158489	53.267	ug/l	99
40) Benzene	8.600	78	451074	48.024	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084571.D
 Acq On : 30 Oct 2024 12:09
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:18:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:18:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	76791	53.814	ug/l	97
42) 1,2-Dichloroethane	8.665	62	153960	50.614	ug/l	100
43) Isopropyl Acetate	8.688	43	235517	48.004	ug/l	99
44) Trichloroethene	9.353	130	104498	48.241	ug/l	98
45) 1,2-Dichloropropane	9.618	63	108302	49.154	ug/l	95
46) Dibromomethane	9.706	93	76019	48.895	ug/l	97
47) Bromodichloromethane	9.888	83	162307	49.525	ug/l	97
48) Methyl methacrylate	9.677	41	107828	52.212	ug/l	98
49) 1,4-Dioxane	9.694	88	37719	1030.669	ug/l #	82
51) 4-Methyl-2-Pentanone	10.447	43	658351	260.254	ug/l	98
52) Toluene	10.629	92	280034	50.978	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	169085	49.843	ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	180909	50.386	ug/l	97
55) 1,1,2-Trichloroethane	11.018	97	102401	49.487	ug/l	98
56) Ethyl methacrylate	10.871	69	168060	56.150	ug/l	96
57) 1,3-Dichloropropane	11.159	76	175929	49.539	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	407857	291.210	ug/l	97
59) 2-Hexanone	11.194	43	485391	263.615	ug/l	98
60) Dibromochloromethane	11.359	129	122816	52.078	ug/l	98
61) 1,2-Dibromoethane	11.465	107	103901	49.034	ug/l	98
64) Tetrachloroethene	11.100	164	87457	47.088	ug/l	96
65) Chlorobenzene	11.888	112	296199	47.416	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	104844	48.252	ug/l	99
67) Ethyl Benzene	11.965	91	528107	50.646	ug/l	100
68) m/p-Xylenes	12.070	106	406816	103.053	ug/l	98
69) o-Xylene	12.394	106	192710	52.183	ug/l	99
70) Styrene	12.412	104	336570	52.245	ug/l	99
71) Bromoform	12.576	173	82245	50.303	ug/l #	99
73) Isopropylbenzene	12.694	105	493742	50.942	ug/l	99
74) N-ethyl acetate	12.494	43	211326	51.228	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	148441	45.884	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	122649m	44.939	ug/l	
77) Bromobenzene	12.982	156	122062	46.847	ug/l	95
78) n-propylbenzene	13.035	91	585903	51.587	ug/l	100
79) 2-Chlorotoluene	13.123	91	362526	48.850	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	424332	52.823	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	55485	47.612	ug/l	92
82) 4-Chlorotoluene	13.217	91	375636	48.097	ug/l	99
83) tert-Butylbenzene	13.435	119	350031	52.649	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	435421	52.518	ug/l	99
85) sec-Butylbenzene	13.612	105	489305	52.102	ug/l	100
86) p-Isopropyltoluene	13.729	119	421834	54.770	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	230686	45.366	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	231568	49.658	ug/l	98
89) n-Butylbenzene	14.053	91	362215	50.276	ug/l	99
90) Hexachloroethane	14.335	117	81515	47.459	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	223772	45.796	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.711	75	29987	45.754	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	119579	44.711	ug/l	99
94) Hexachlorobutadiene	15.500	225	51033	43.451	ug/l	98
95) Naphthalene	15.635	128	384553	48.037	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	116341	44.812	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084571.D
Acq On : 30 Oct 2024 12:09
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:18:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

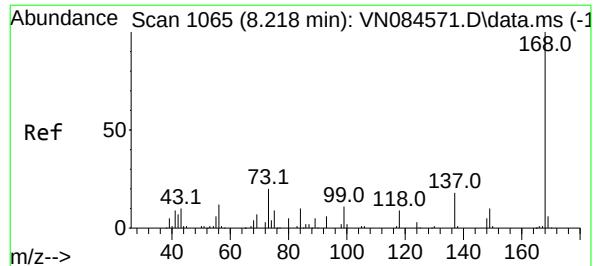
Abundance

TIC: VN084571.D\data.ms

Time-->

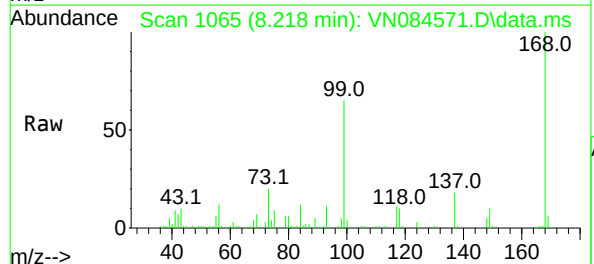
Peak labels (from left to right):

- Methyl tert-butyl Ether, T
- Vinyl Acetate, T
- 2-Ethyl-1-hexanol, T
- Pentamethylbenzene, S
- Diisobutylene, T
- Carbon tetrachloride, T
- Benzene, TM
- 1,4-Difluorobenzene, I
- 1,2-Dichloroethane, T
- Methylcyclohexane, T
- cis-1,3-Dichloropropene, T
- Toluene, CM
- 2-Hexanone, T
- Tetrachloroethene, T
- Chlorobenzene, TM
- Ethyl Butyl ether, T
- N-amyl acetate, T
- Styrene, T
- Isopropylbenzene, T
- 4-Bromofluorobenzene, S
- 1,2-Trichloropropane, T
- Bromobenzene, T
- 1,3,5-Trimethylbenzene, T
- 4-Chlorophenol, T
- tert-Butylbenzene, T
- sec-Butylbenzene, T
- 1,4-Dichlorobenzene, T
- 1,2-Dichlorobenzene, T
- Hexachloroethane, T
- 1,2,4-Trichlorobenzene, T
- Naphthalene, T



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN084571.D
Acq: 30 Oct 2024 12:09

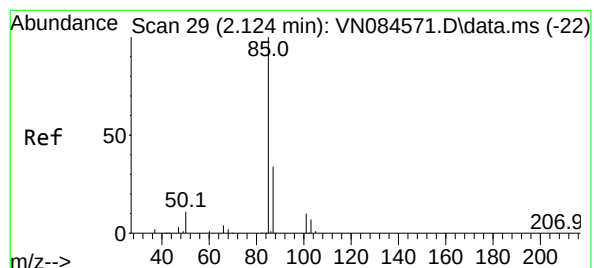
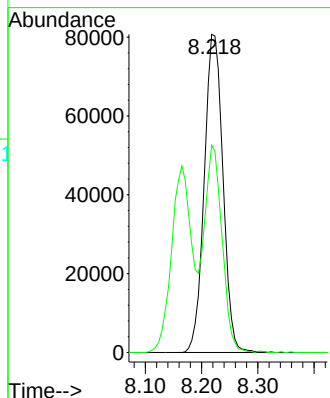
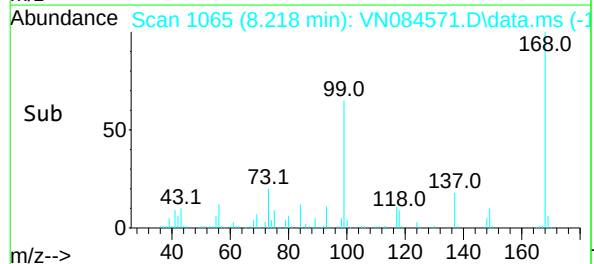
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 168 Resp: 186594
Ion Ratio Lower Upper
168 100
99 65.2 54.2 81.2

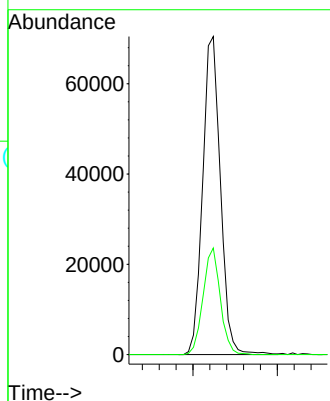
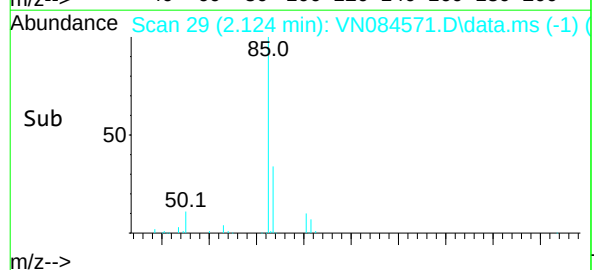
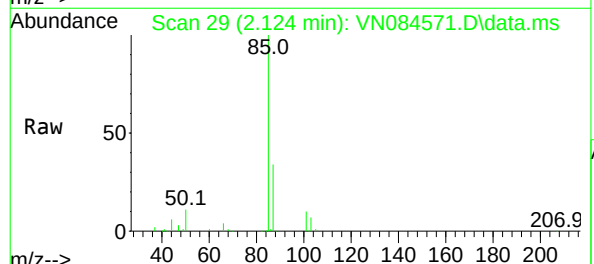
Manual Integrations
APPROVED

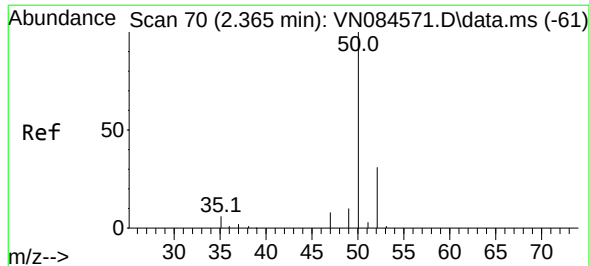
Reviewed By : Semsettin Yesilyurt 11/04/2024
Supervised By : Mahesh Dadoda 11/04/2024



#2
Dichlorodifluoromethane
Concen: 48.061 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN084571.D
Acq: 30 Oct 2024 12:09

Tgt Ion: 85 Resp: 103092
Ion Ratio Lower Upper
85 100
87 33.5 17.6 52.9





#3

Chloromethane

Concen: 49.788 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 50 Resp: 125344

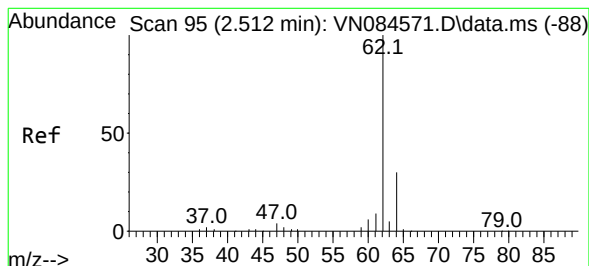
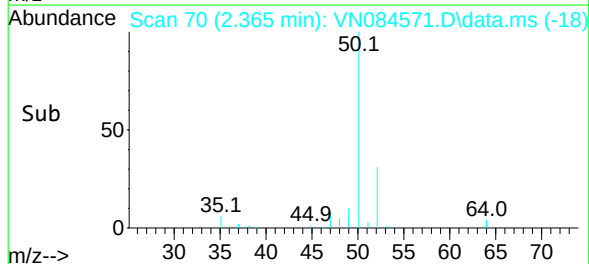
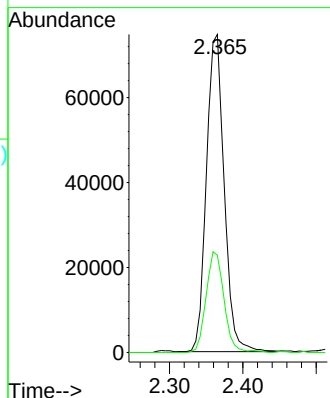
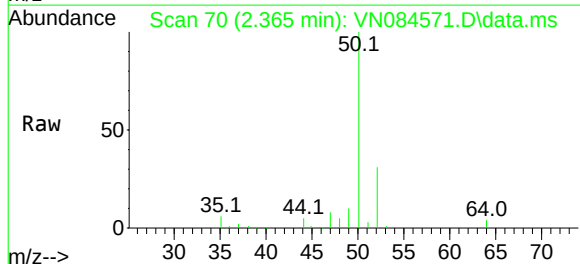
Ion Ratio Lower Upper

50 100

52 30.6 26.8 40.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#4

Vinyl Chloride

Concen: 48.962 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.006 min

Lab File: VN084571.D

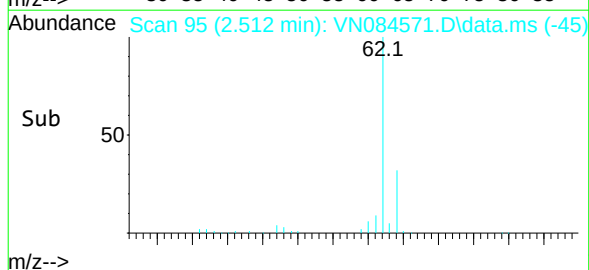
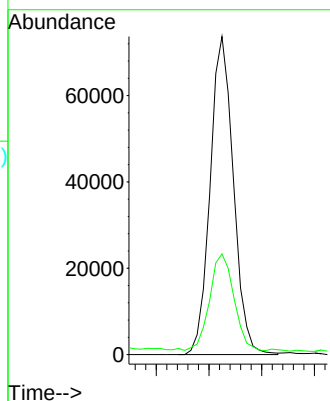
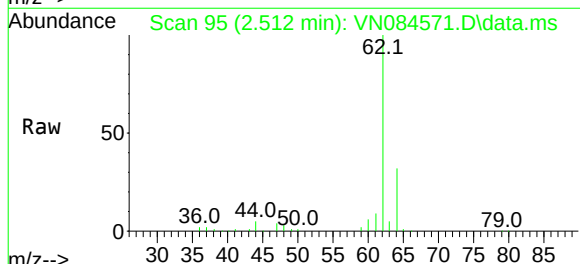
Acq: 30 Oct 2024 12:09

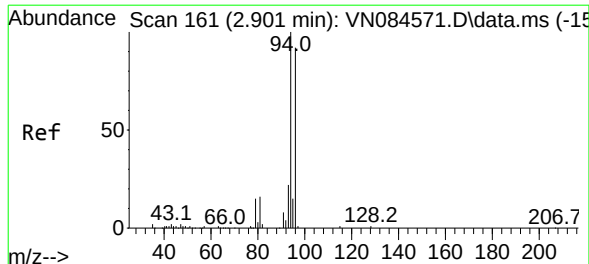
Tgt Ion: 62 Resp: 112961

Ion Ratio Lower Upper

62 100

64 30.1 26.2 39.4





#5

Bromomethane

Concen: 45.153 ug/l

RT: 2.901 min Scan# 161

Delta R.T. -0.052 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 94 Resp: 55194

Ion Ratio Lower Upper

94 100

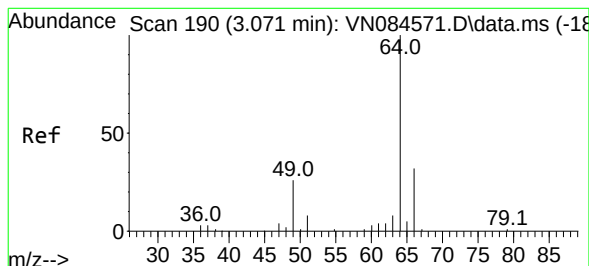
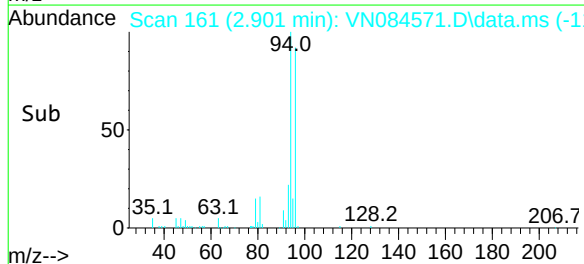
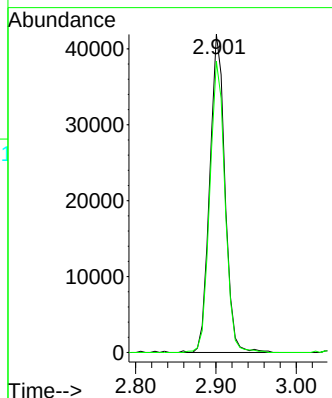
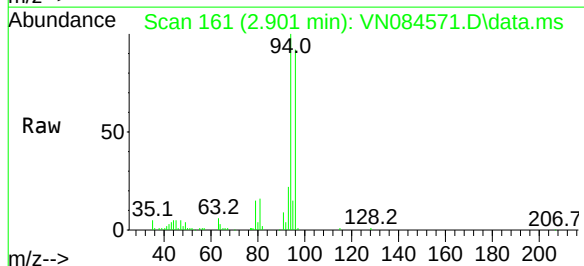
96 91.5 72.9 109.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#6

Chloroethane

Concen: 49.078 ug/l

RT: 3.071 min Scan# 190

Delta R.T. -0.047 min

Lab File: VN084571.D

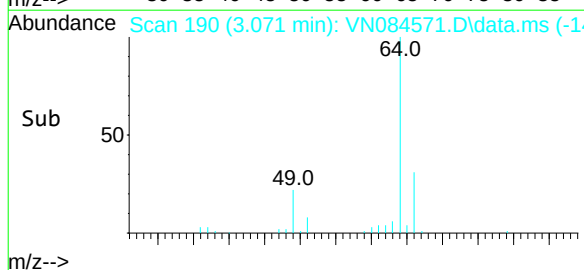
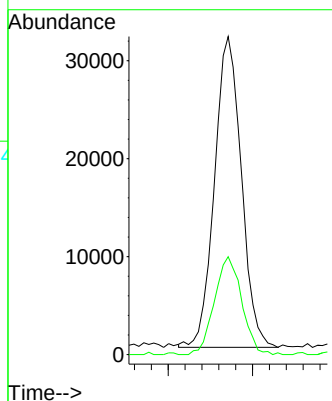
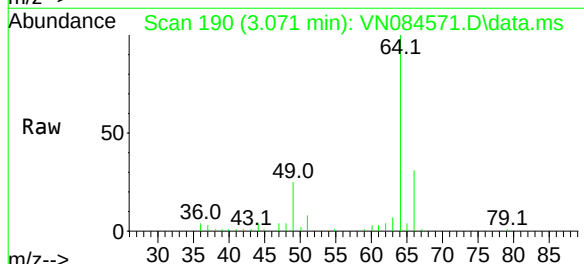
Acq: 30 Oct 2024 12:09

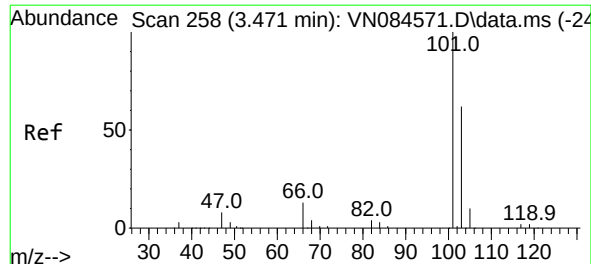
Tgt Ion: 64 Resp: 70126

Ion Ratio Lower Upper

64 100

66 31.5 23.5 35.3





#7

Trichlorofluoromethane

Concen: 47.086 ug/l

RT: 3.471 min Scan# 258

Delta R.T. -0.024 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Tgt Ion: 101 Resp: 178947

Ion Ratio Lower Upper

101 100

103 62.5 51.8 77.6

Instrument :

MSVOA_N

ClientSampleId :

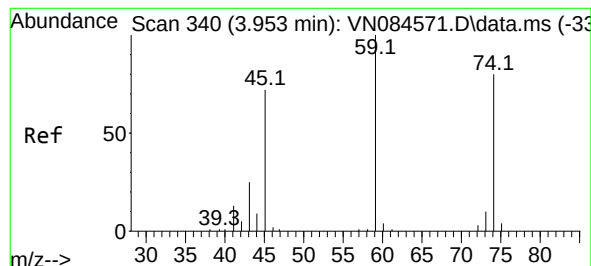
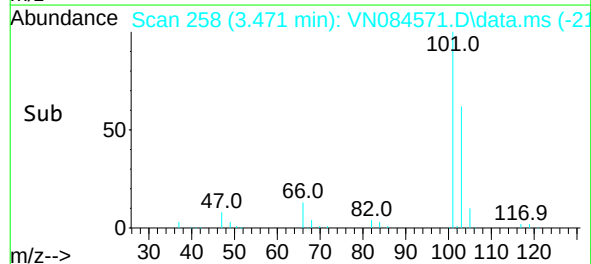
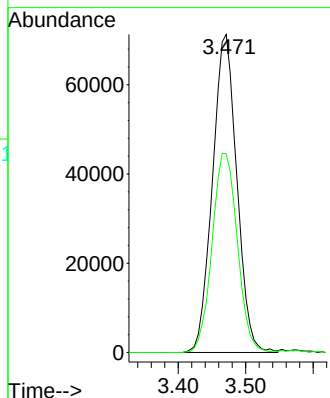
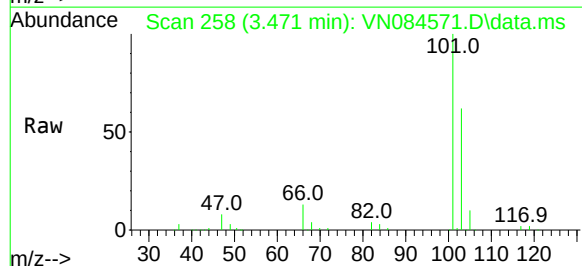
VSTDICCC050

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#8

Diethyl Ether

Concen: 49.190 ug/l

RT: 3.953 min Scan# 340

Delta R.T. -0.006 min

Lab File: VN084571.D

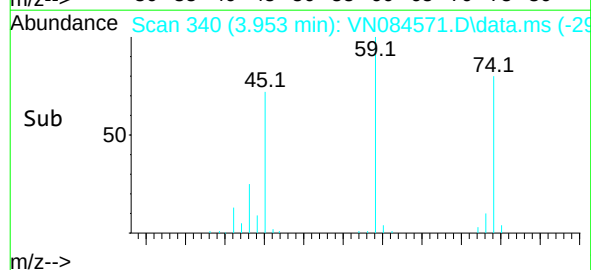
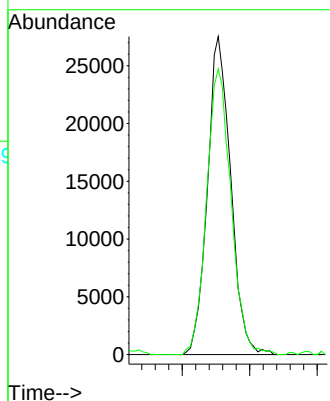
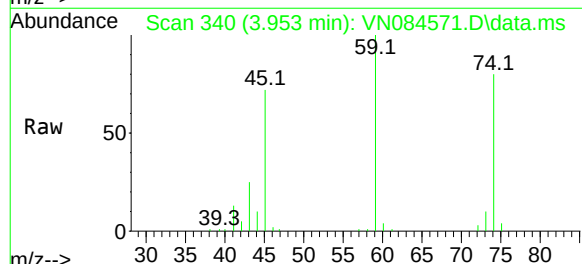
Acq: 30 Oct 2024 12:09

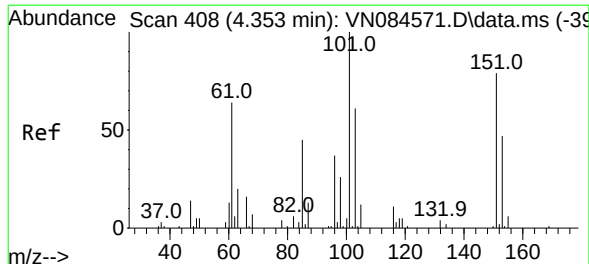
Tgt Ion: 74 Resp: 65946

Ion Ratio Lower Upper

74 100

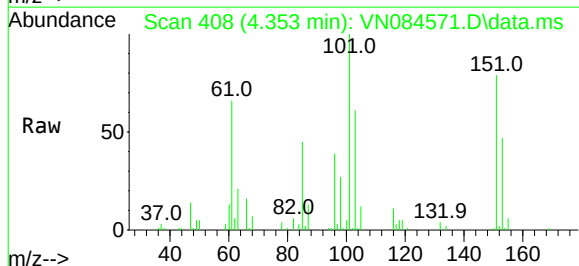
45 94.5 47.7 143.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.366 ug/l
RT: 4.353 min Scan# 408
Delta R.T. -0.018 min
Lab File: VN084571.D
Acq: 30 Oct 2024 12:09

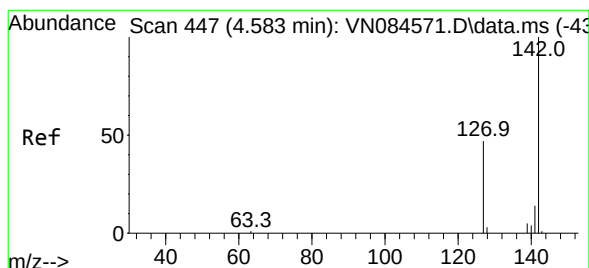
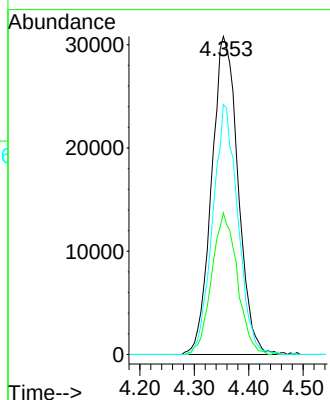
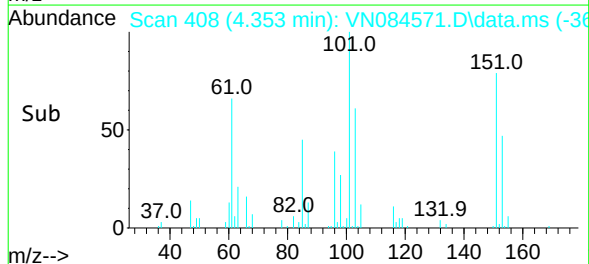
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:101 Resp: 103864
Ion Ratio Lower Upper
101 100
85 43.2 36.2 54.4
151 74.7 59.3 88.9

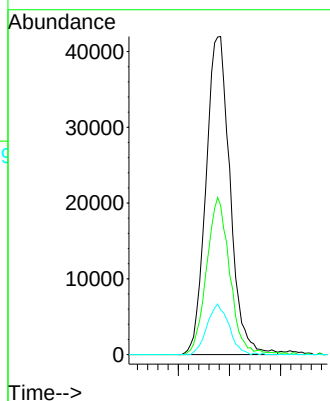
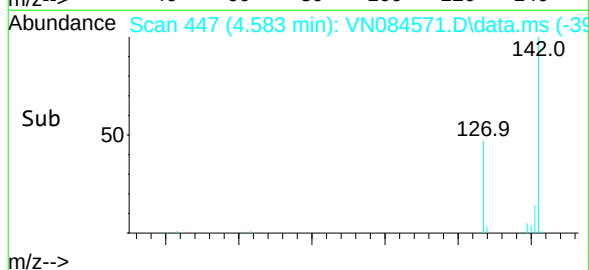
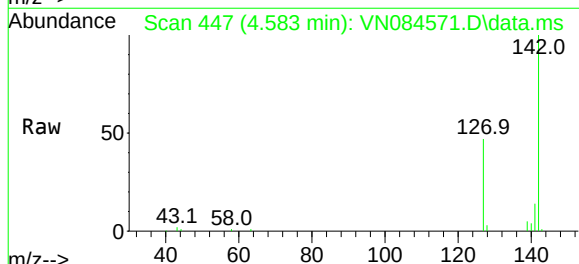
Manual Integrations
APPROVED

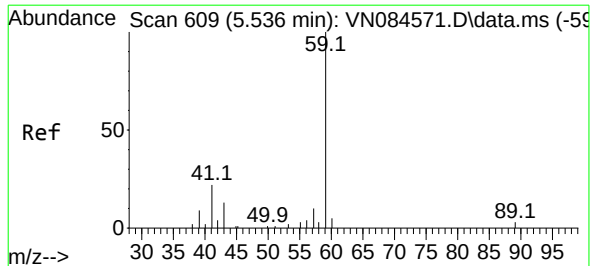
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#10
Methyl Iodide
Concen: 47.829 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.012 min
Lab File: VN084571.D
Acq: 30 Oct 2024 12:09

Tgt Ion:142 Resp: 137274
Ion Ratio Lower Upper
142 100
127 46.9 35.3 52.9
141 14.0 11.0 16.6





#11

Tert butyl alcohol

Concen: 226.565 ug/l

RT: 5.536 min Scan# 609

Delta R.T. 0.012 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Tgt Ion: 59 Resp: 80598

Ion Ratio Lower Upper

59 100

57 10.1 8.2 12.2

Instrument :

MSVOA_N

ClientSampleId :

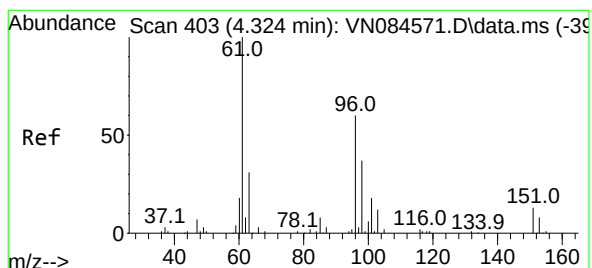
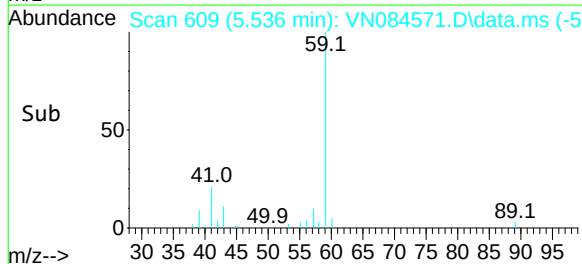
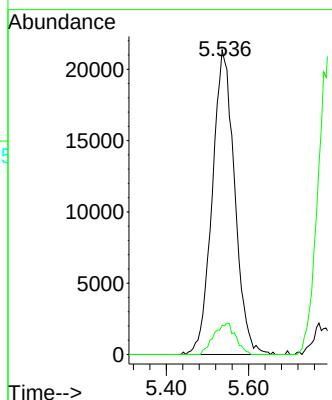
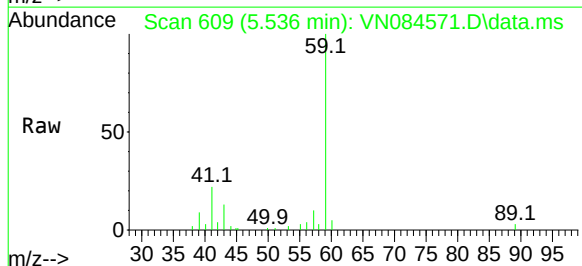
VSTDICCC050

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#12

1,1-Dichloroethene

Concen: 47.270 ug/l

RT: 4.324 min Scan# 403

Delta R.T. -0.018 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

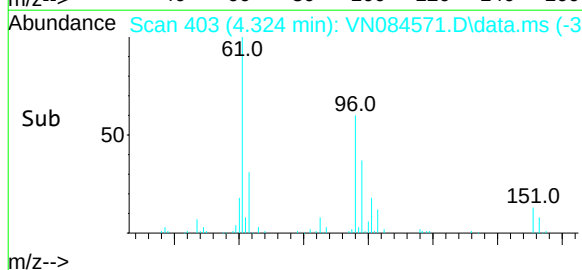
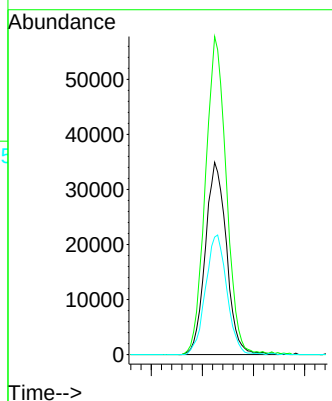
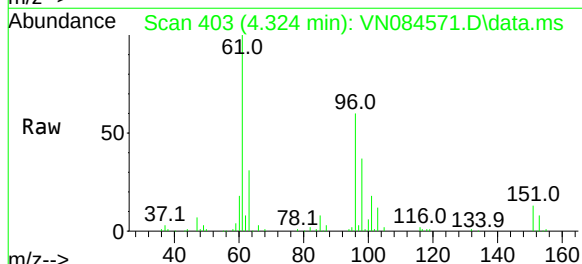
Tgt Ion: 96 Resp: 100445

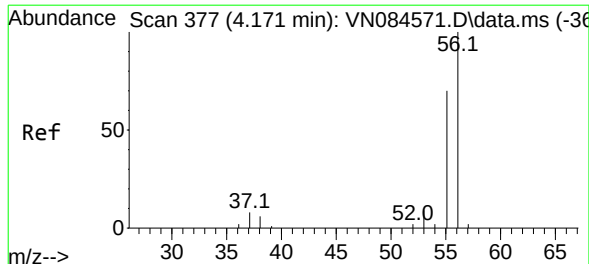
Ion Ratio Lower Upper

96 100

61 165.4 128.6 192.8

98 61.1 51.7 77.5





#13

Acrolein

Concen: 231.524 ug/l

RT: 4.171 min Scan# 377

Delta R.T. -0.006 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 82129

Ion Ratio Lower Upper

56 100

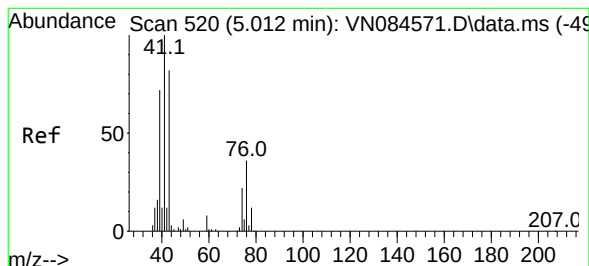
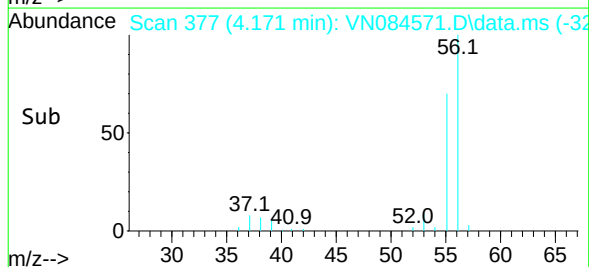
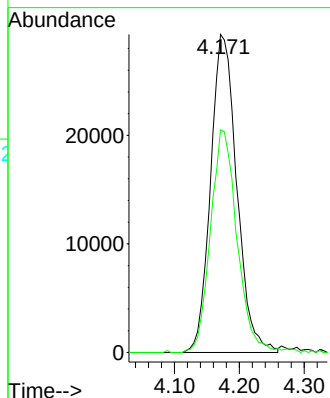
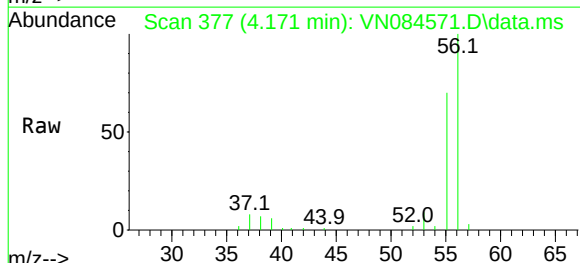
55 70.8 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#14

Allyl chloride

Concen: 49.635 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.012 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

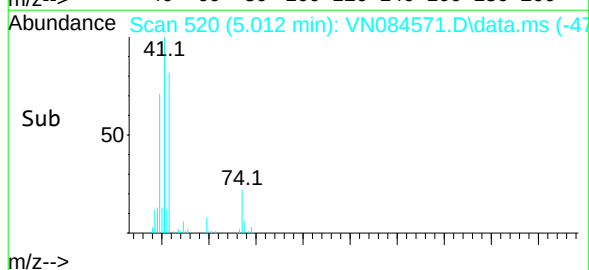
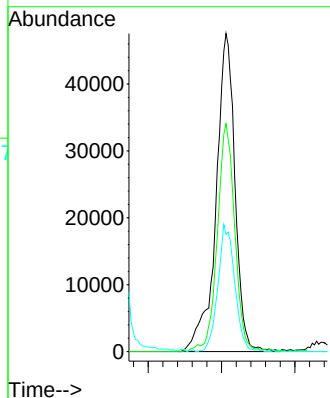
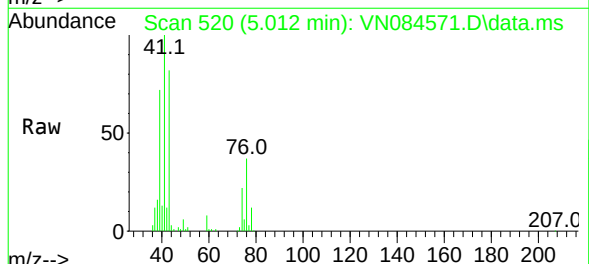
Tgt Ion: 41 Resp: 171045

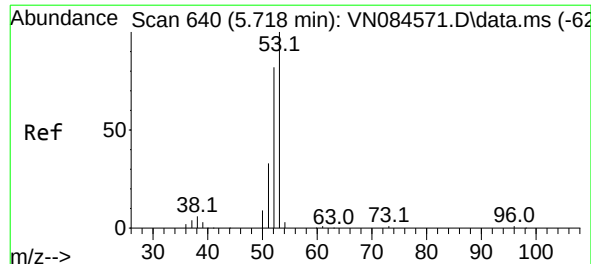
Ion Ratio Lower Upper

41 100

39 65.6 59.0 88.6

76 35.1 29.8 44.6





#15

Acrylonitrile

Concen: 245.525 ug/l

RT: 5.718 min Scan# 640

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

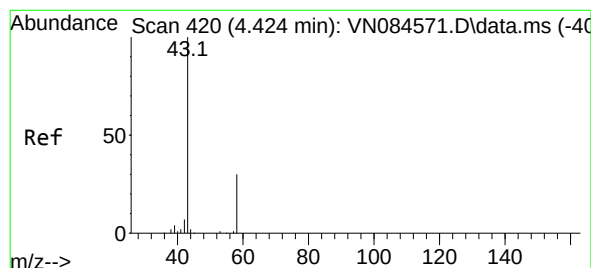
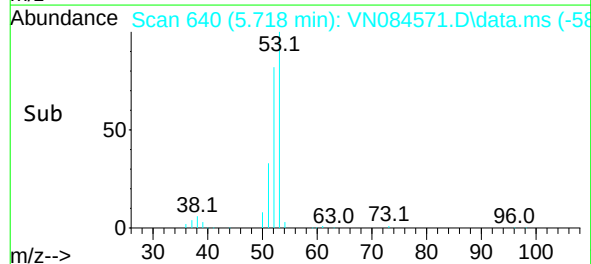
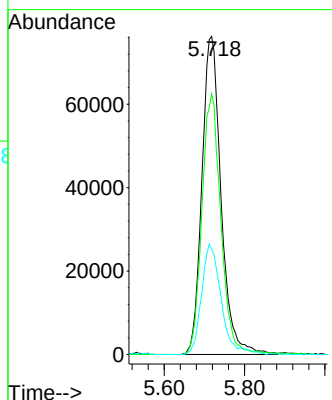
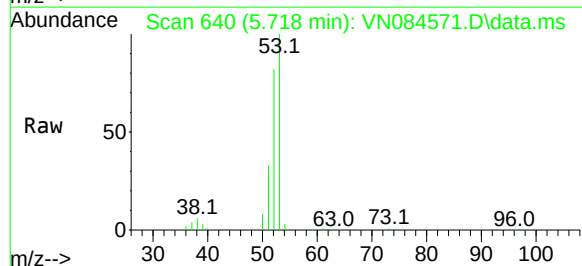
ClientSampleId :

VSTDICCC050

Tgt Ion:	53	Resp:	252853
Ion	Ratio	Lower	Upper
53	100		
52	80.1	66.2	99.4
51	35.4	28.8	43.2

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#16

Acetone

Concen: 243.925 ug/l

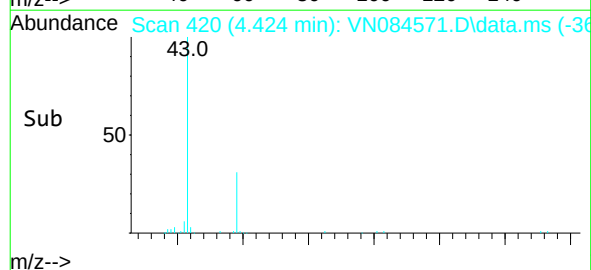
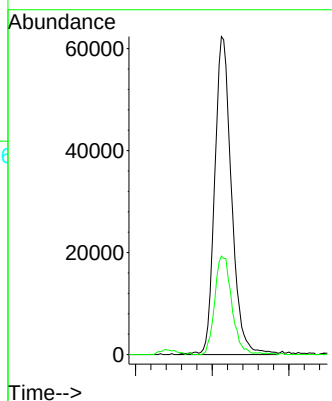
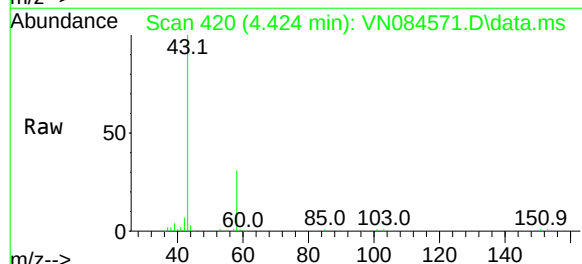
RT: 4.424 min Scan# 420

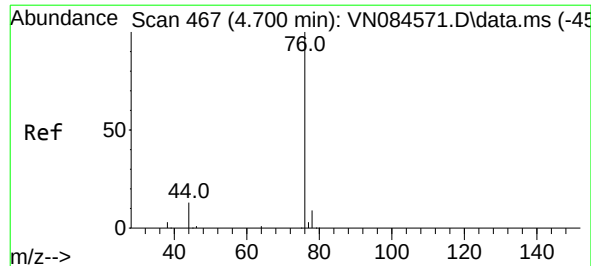
Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Tgt Ion:	43	Resp:	189949
Ion	Ratio	Lower	Upper
43	100		
58	30.9	24.4	36.6





#17

Carbon Disulfide

Concen: 45.698 ug/l

RT: 4.700 min Scan# 467

Delta R.T. -0.012 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 299041

Ion Ratio Lower Upper

76 100

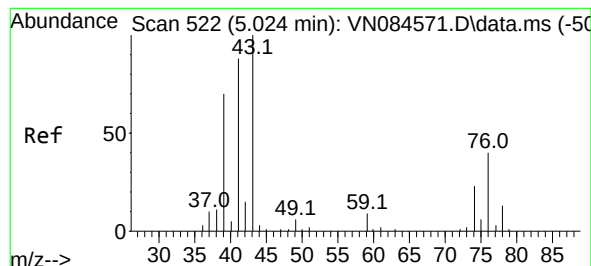
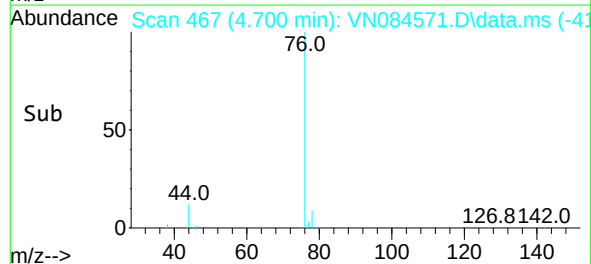
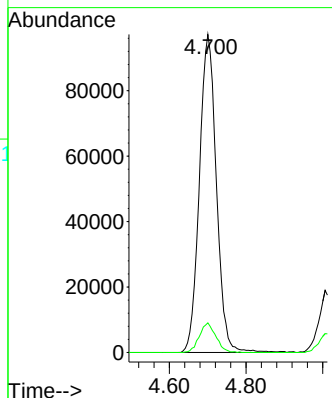
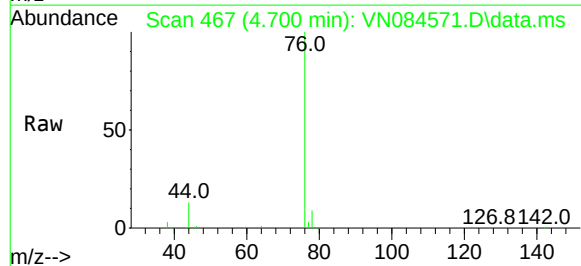
78 9.3 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#18

Methyl Acetate

Concen: 49.097 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN084571.D

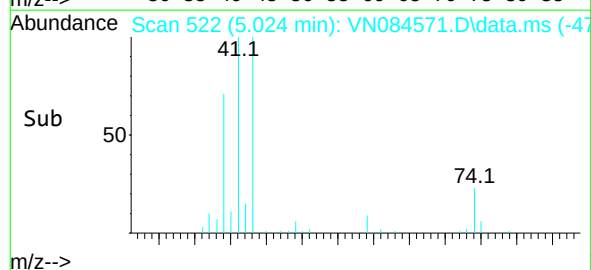
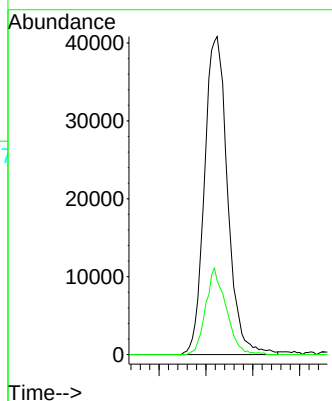
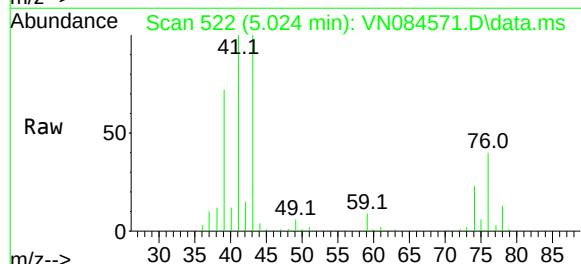
Acq: 30 Oct 2024 12:09

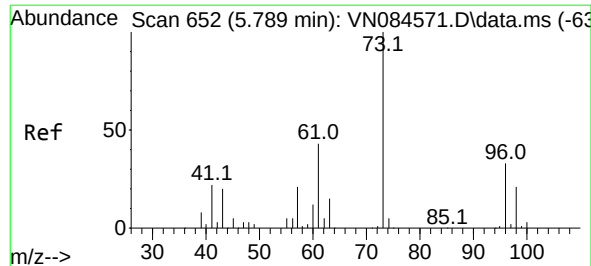
Tgt Ion: 43 Resp: 139826

Ion Ratio Lower Upper

43 100

74 24.1 19.2 28.8





#19

Methyl tert-butyl Ether

Concen: 50.376 ug/l

RT: 5.789 min Scan# 65

Delta R.T. -0.006 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 328099

Ion Ratio Lower Upper

73 100

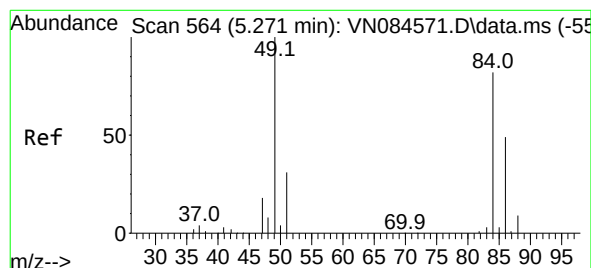
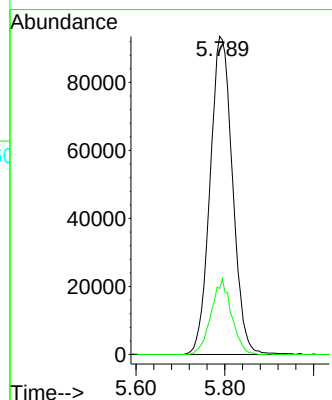
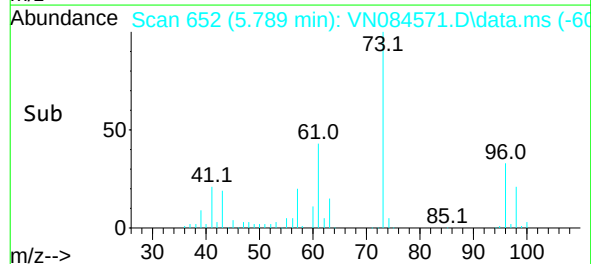
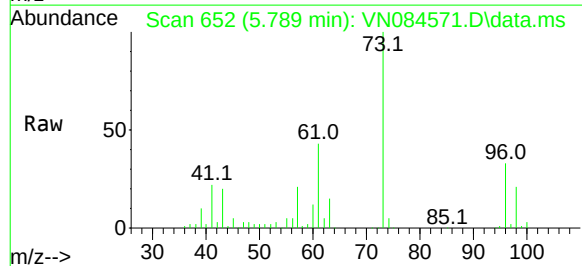
57 20.8 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#20

Methylene Chloride

Concen: 47.370 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.006 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Tgt Ion: 84 Resp: 112282

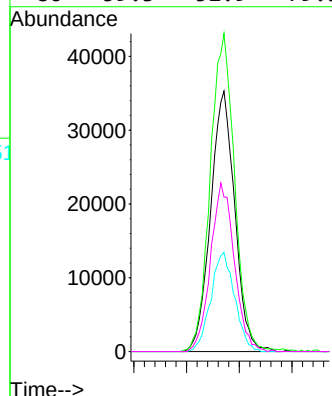
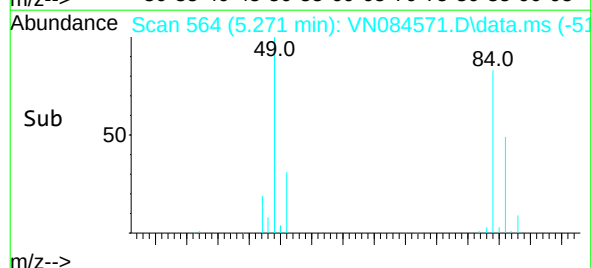
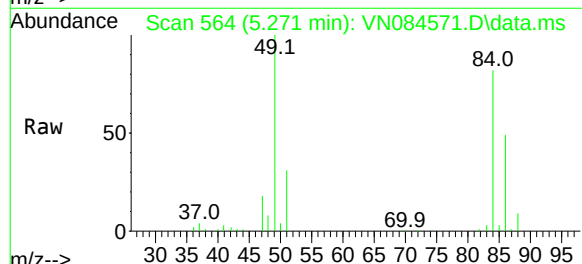
Ion Ratio Lower Upper

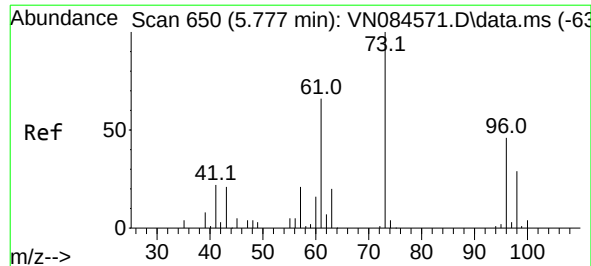
84 100

49 122.1 107.2 160.8

51 38.0 31.8 47.8

86 59.3 52.9 79.3





#21

trans-1,2-Dichloroethene

Concen: 48.146 ug/l

RT: 5.777 min Scan# 650

Delta R.T. -0.012 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 105050

Ion Ratio Lower Upper

96 100

61 141.9 108.4 162.6

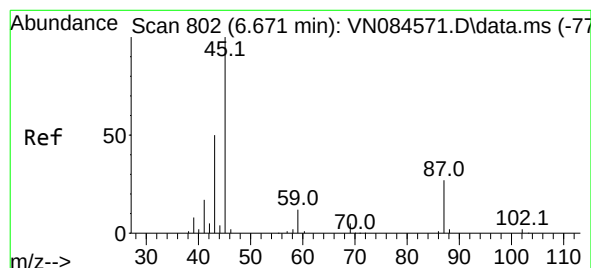
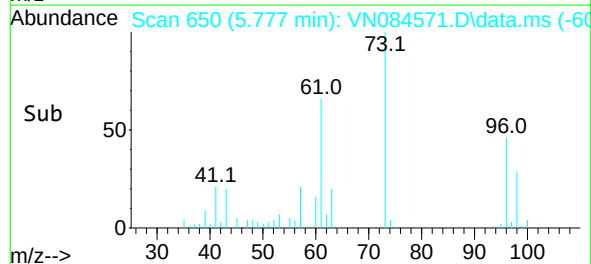
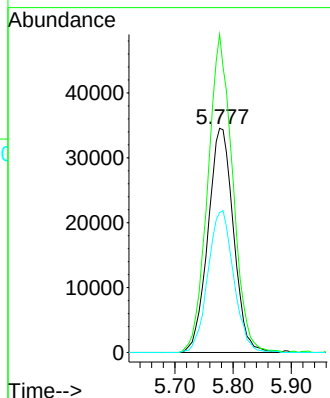
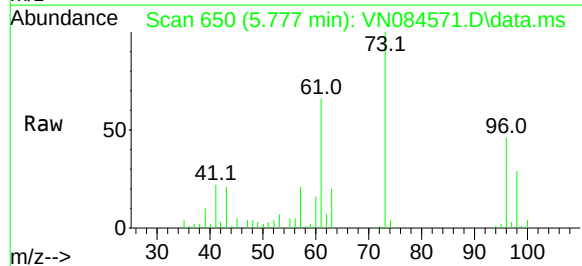
98 62.5 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#22

Diisopropyl ether

Concen: 50.549 ug/l

RT: 6.671 min Scan# 802

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Tgt Ion: 45 Resp: 346126

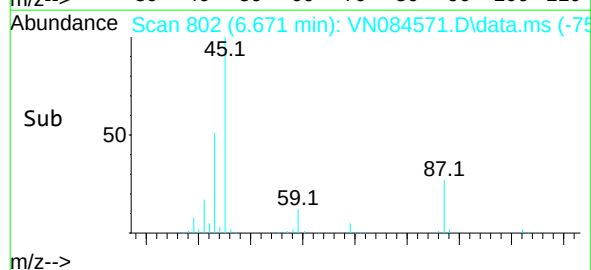
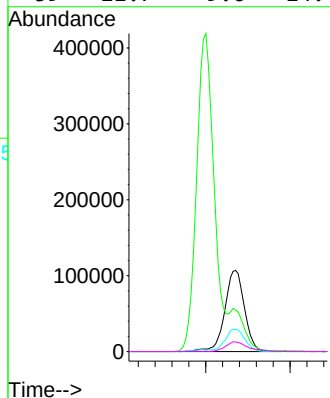
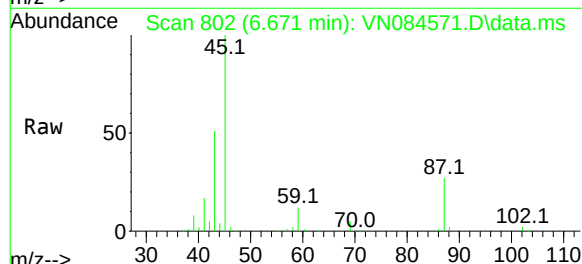
Ion Ratio Lower Upper

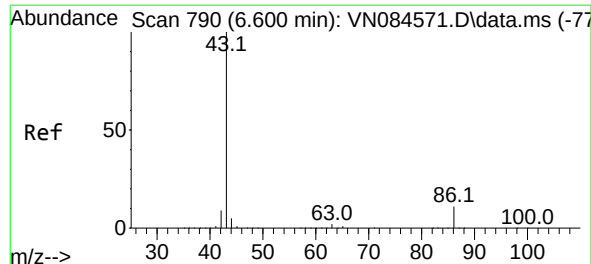
45 100

43 50.3 42.3 63.5

87 27.3 21.8 32.6

59 11.7 9.6 14.4





#23

Vinyl Acetate

Concen: 256.673 ug/l

RT: 6.600 min Scan# 790

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 1212022

Ion Ratio Lower Upper

43 100

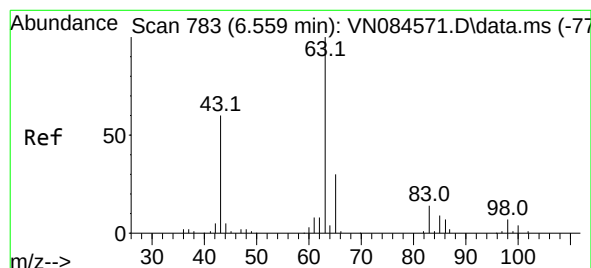
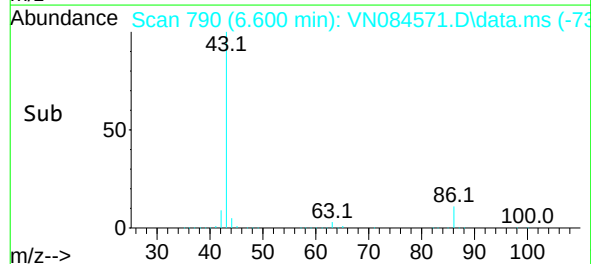
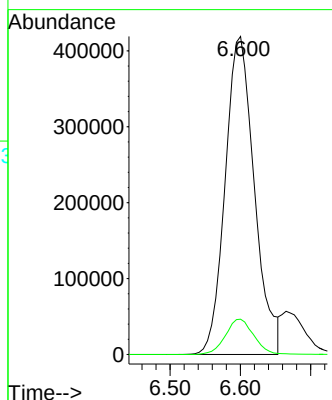
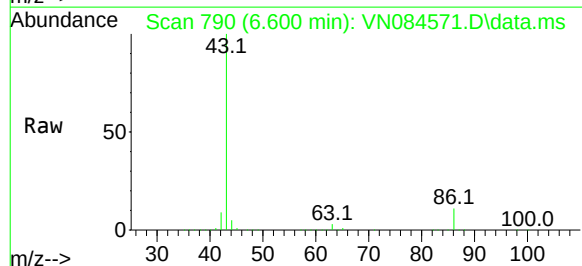
86 11.1 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#24

1,1-Dichloroethane

Concen: 48.362 ug/l

RT: 6.559 min Scan# 783

Delta R.T. -0.012 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

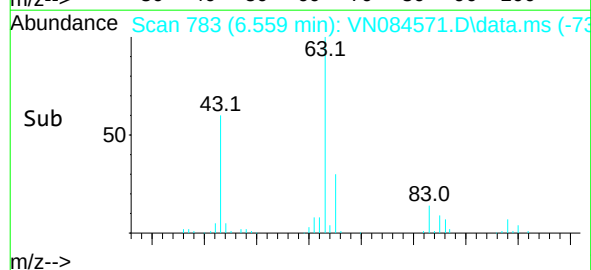
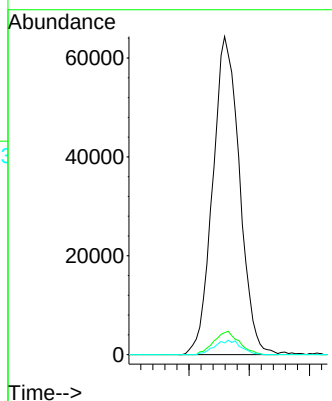
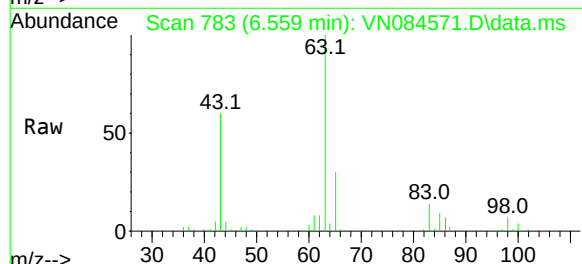
Tgt Ion: 63 Resp: 198817

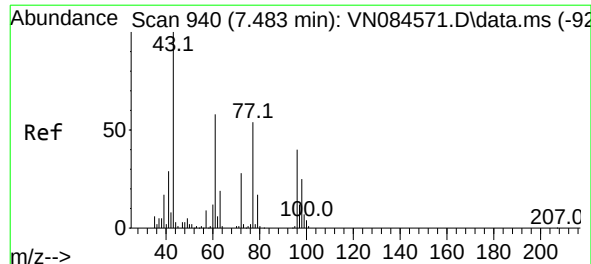
Ion Ratio Lower Upper

63 100

98 6.9 3.4 10.2

100 3.7 2.0 5.8





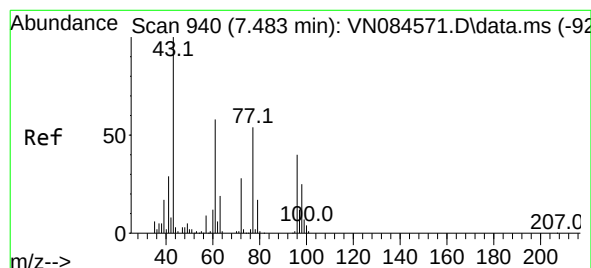
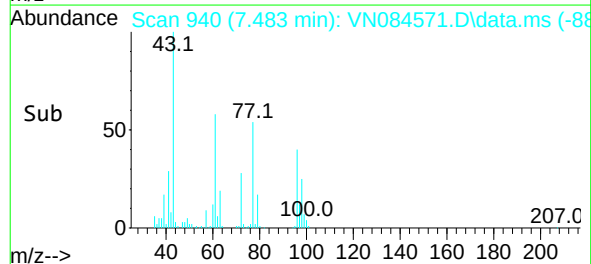
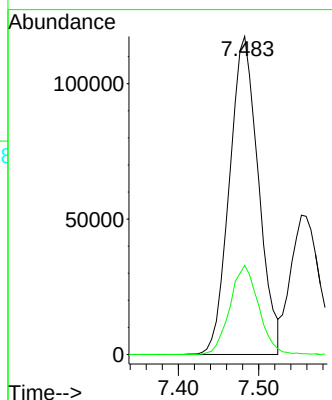
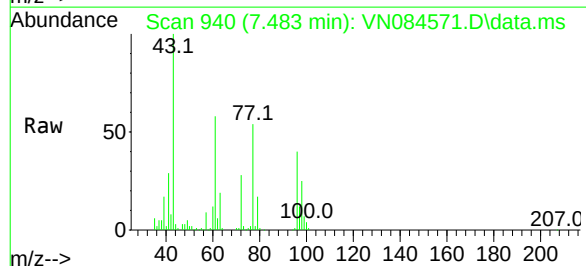
#25
2-Butanone
Concen: 233.994 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN084571.D
Acq: 30 Oct 2024 12:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 294207
Ion Ratio Lower Upper
43 100
72 28.0 21.4 32.2

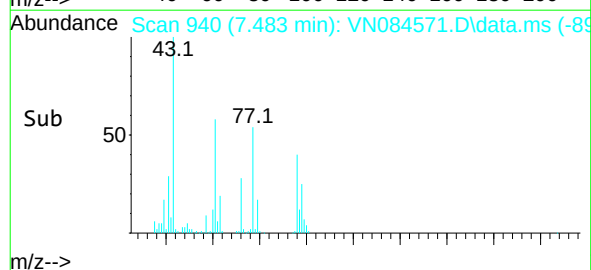
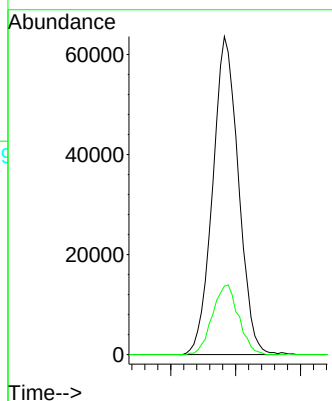
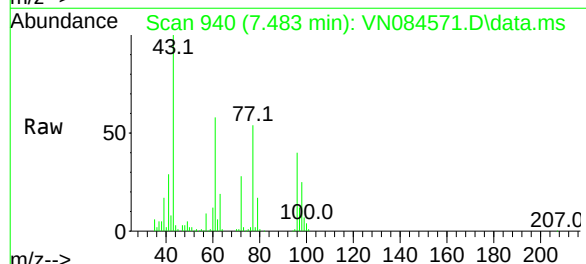
Manual Integrations
APPROVED

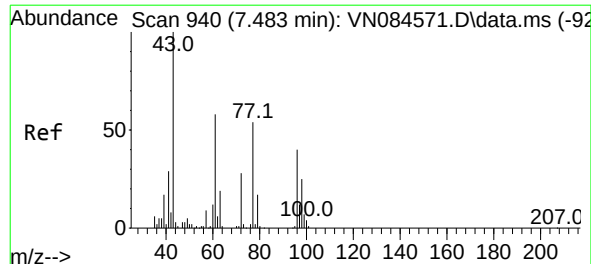
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#26
2,2-Dichloropropane
Concen: 49.052 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN084571.D
Acq: 30 Oct 2024 12:09

Tgt Ion: 77 Resp: 175511
Ion Ratio Lower Upper
77 100
97 22.2 10.8 32.3





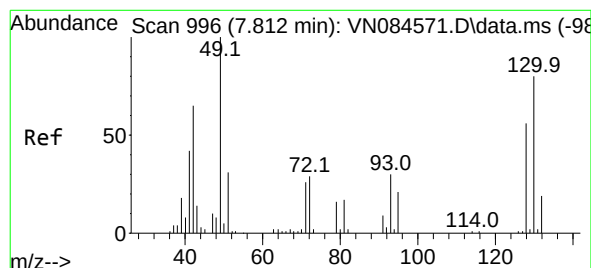
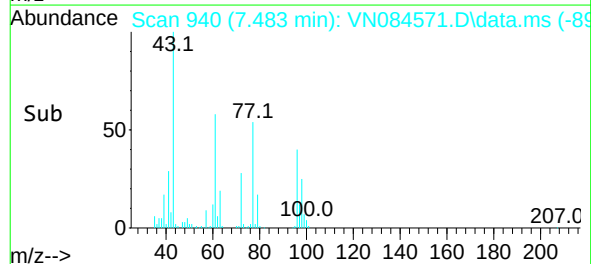
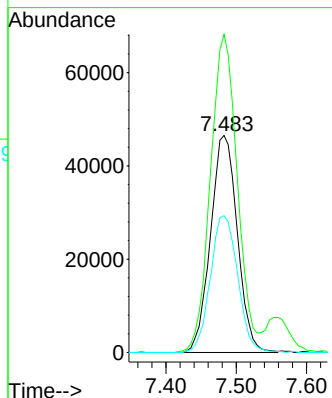
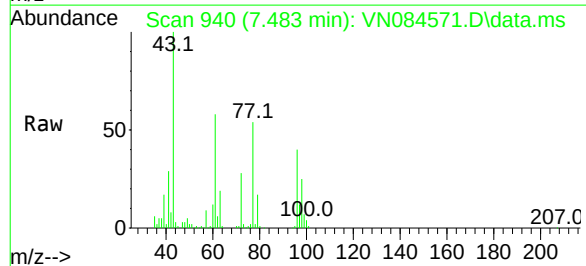
#27
cis-1,2-Dichloroethene
Concen: 48.450 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN084571.D
Acq: 30 Oct 2024 12:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 123436
Ion Ratio Lower Upper
96 100
61 146.2 0.0 301.8
98 64.3 0.0 128.2

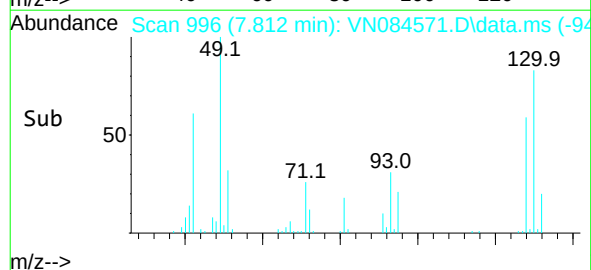
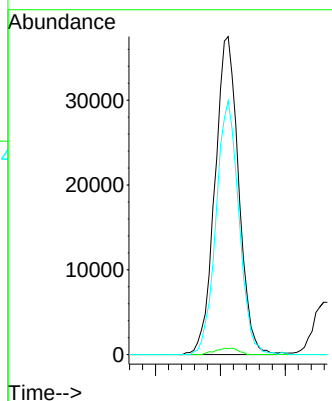
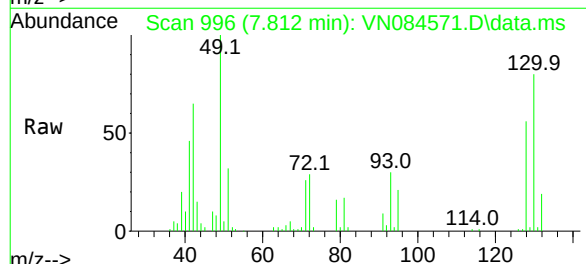
Manual Integrations
APPROVED

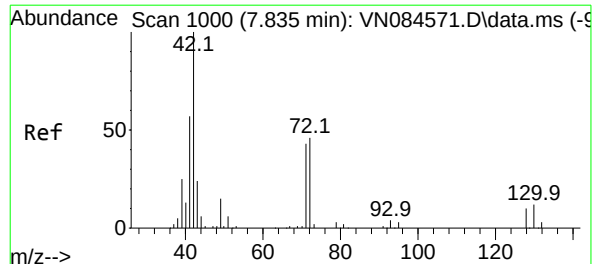
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#28
Bromochloromethane
Concen: 58.166 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN084571.D
Acq: 30 Oct 2024 12:09

Tgt Ion: 49 Resp: 95269
Ion Ratio Lower Upper
49 100
129 2.0 0.0 3.6
130 76.9 58.0 87.0





#29

Tetrahydrofuran

Concen: 248.139 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 42 Resp: 206980

Ion Ratio Lower Upper

42 100

72 44.8 34.6 51.8

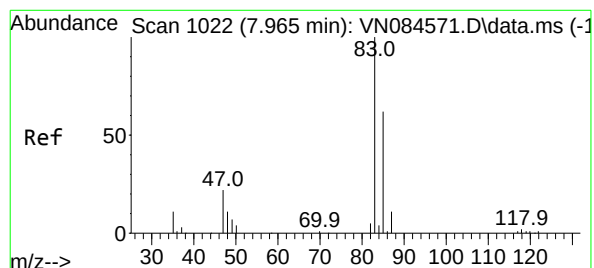
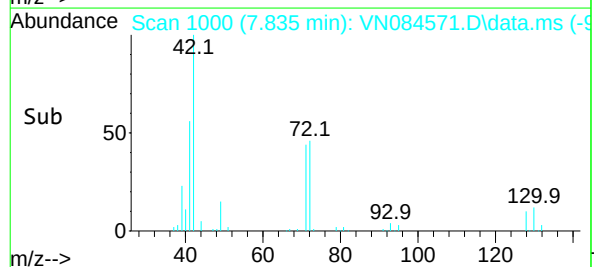
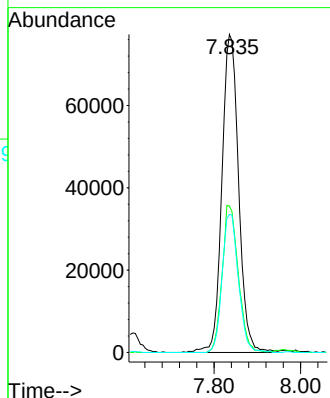
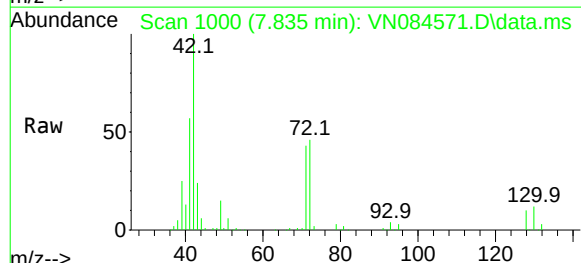
71 42.3 32.2 48.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#30

Chloroform

Concen: 48.417 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN084571.D

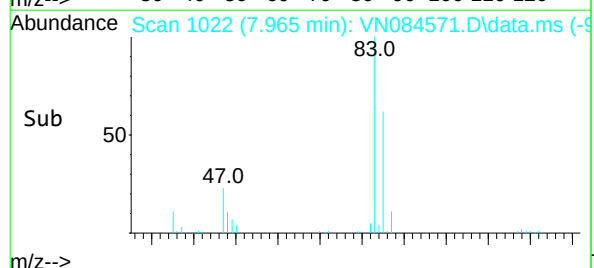
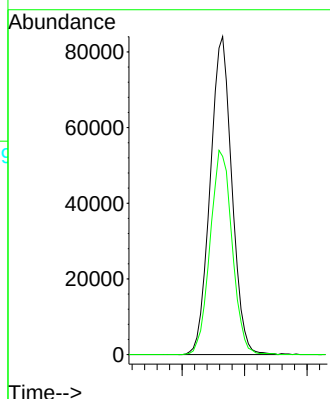
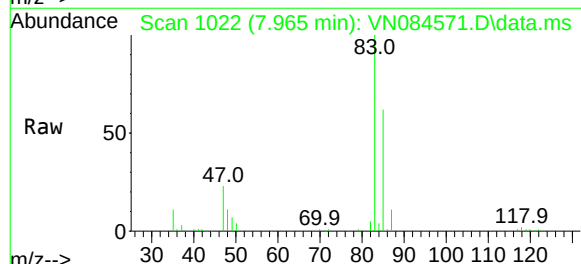
Acq: 30 Oct 2024 12:09

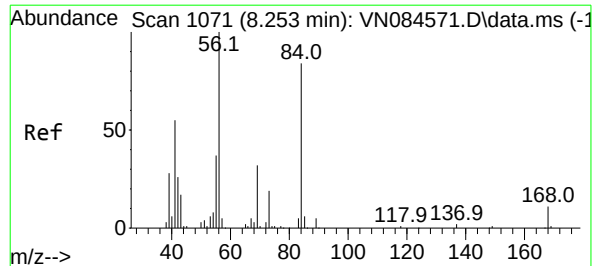
Tgt Ion: 83 Resp: 202589

Ion Ratio Lower Upper

83 100

85 62.3 51.0 76.4





#31

Cyclohexane

Concen: 47.043 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 175038

Ion Ratio Lower Upper

56 100

69 31.9 23.8 35.6

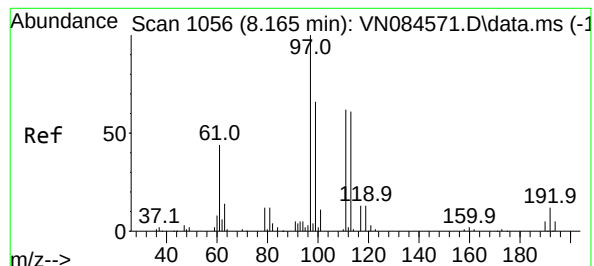
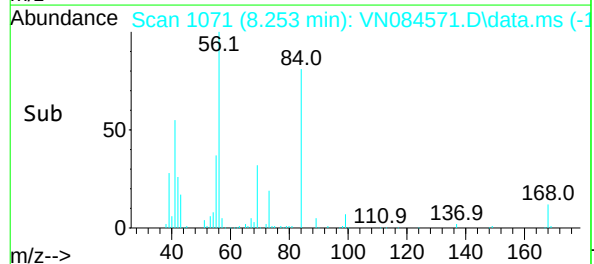
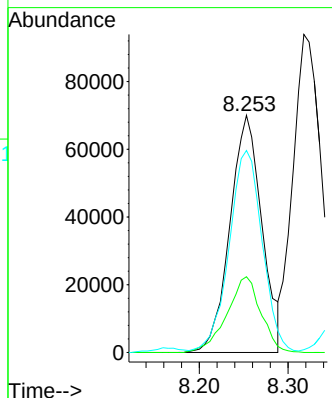
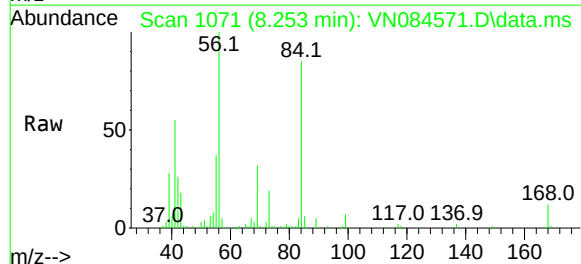
84 83.9 68.8 103.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#32

1,1,1-Trichloroethane

Concen: 48.573 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

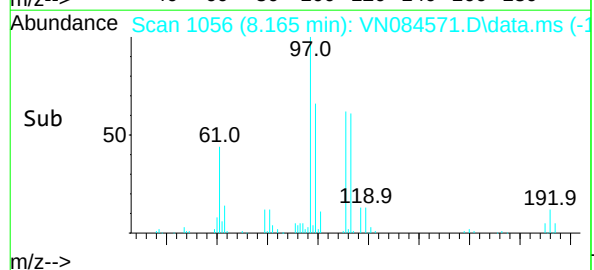
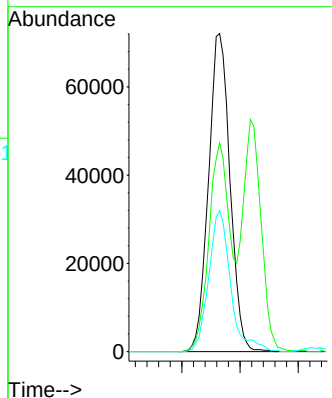
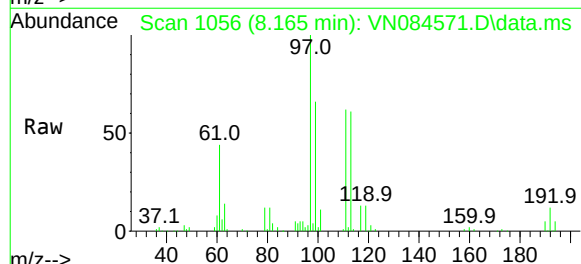
Tgt Ion: 97 Resp: 184986

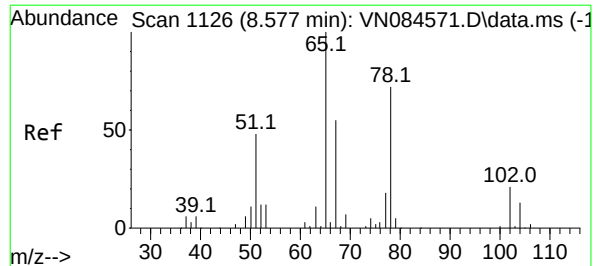
Ion Ratio Lower Upper

97 100

99 65.4 51.2 76.8

61 45.2 37.5 56.3





#33

1,2-Dichloroethane-d4

Concen: 49.914 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 134521

Ion Ratio Lower Upper

65 100

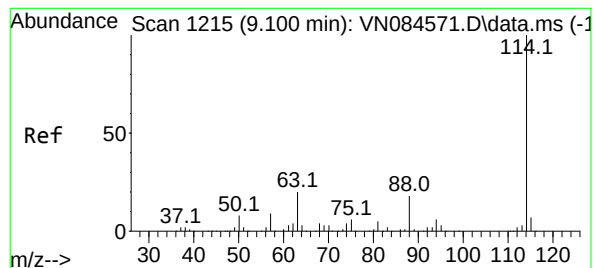
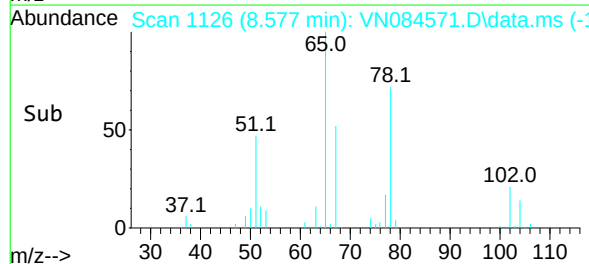
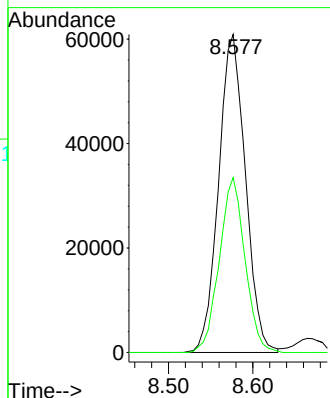
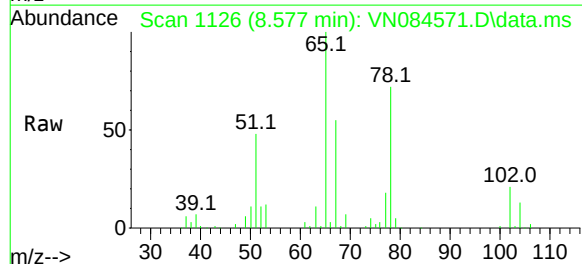
67 52.6 0.0 102.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

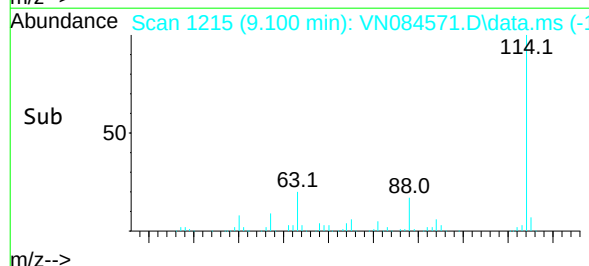
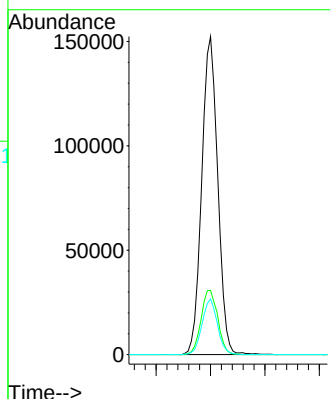
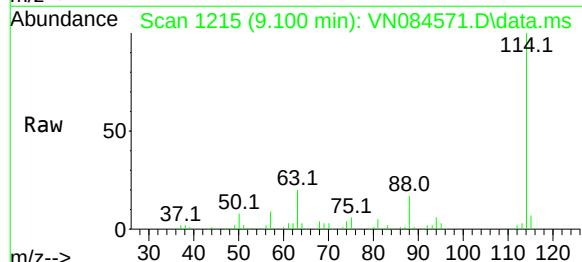
Tgt Ion:114 Resp: 311554

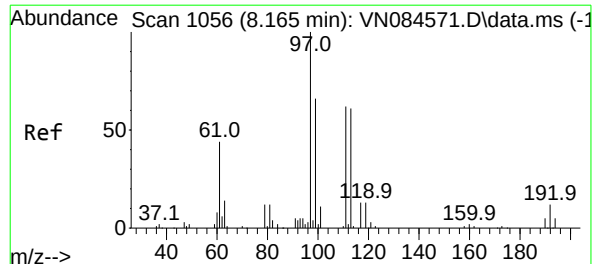
Ion Ratio Lower Upper

114 100

63 20.2 0.0 43.8

88 17.5 0.0 31.6





#35

Dibromofluoromethane

Concen: 50.801 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:113 Resp: 107131

Ion Ratio Lower Upper

113 100

111 103.0 83.3 124.9

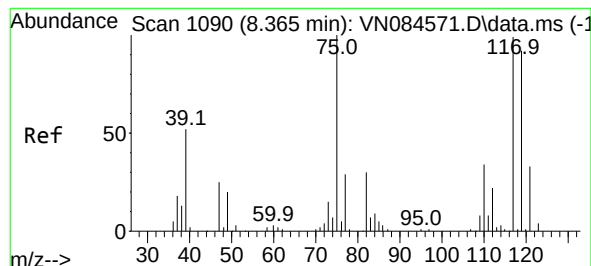
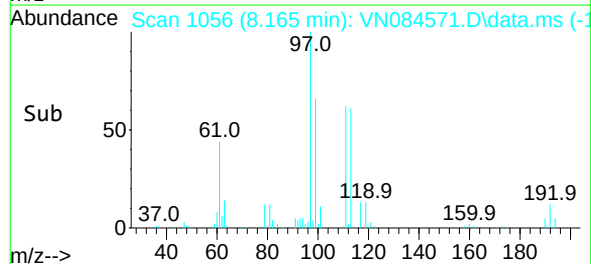
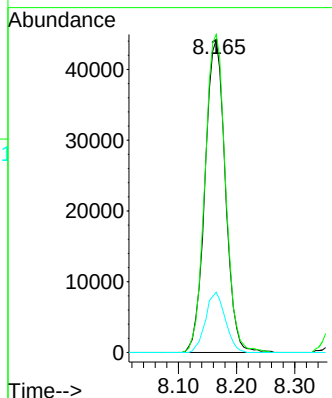
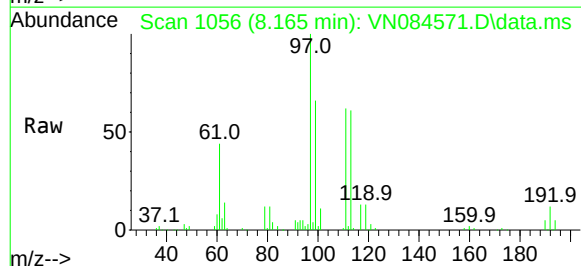
192 18.7 13.5 20.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#36

1,1-Dichloropropene

Concen: 48.071 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.006 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

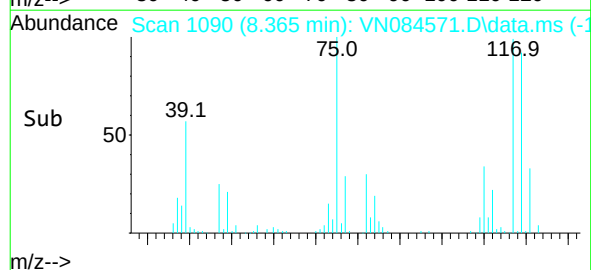
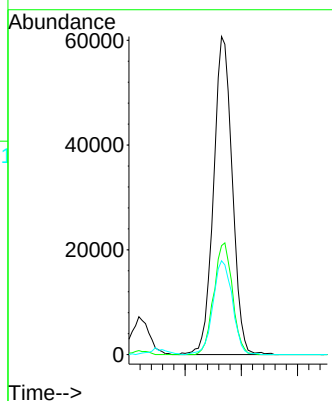
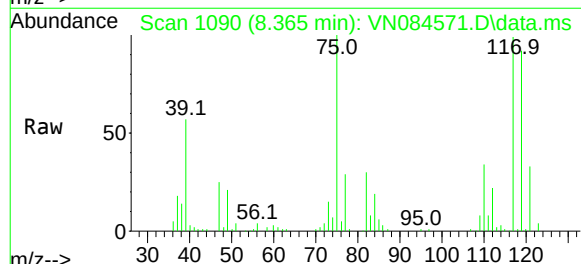
Tgt Ion: 75 Resp: 140593

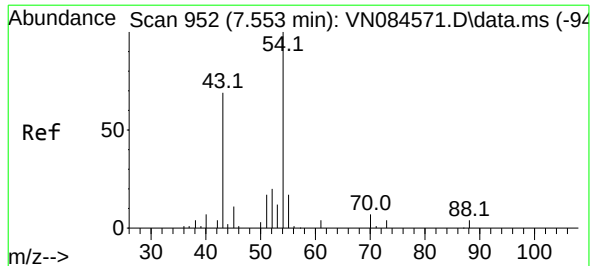
Ion Ratio Lower Upper

75 100

110 34.9 16.9 50.7

77 30.5 24.7 37.1





#37

Ethyl Acetate

Concen: 49.493 ug/l

RT: 7.553 min Scan# 952

Delta R.T. -0.006 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

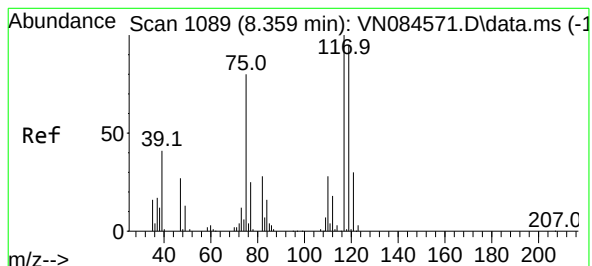
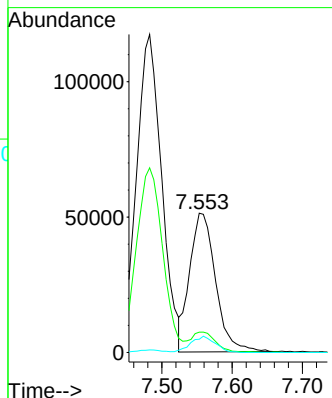
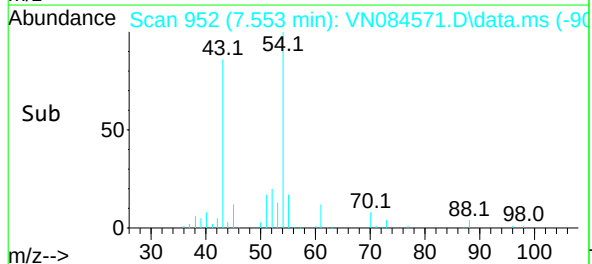
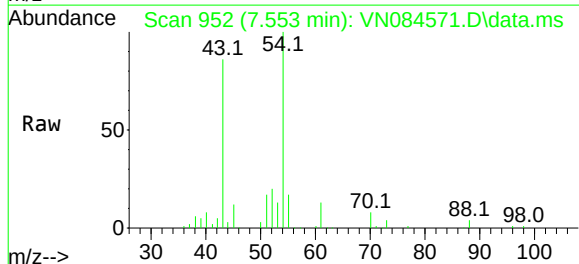
ClientSampleId :

VSTDICCC050

Tgt Ion:	43	Resp:	131332
Ion	Ratio	Lower	Upper
43	100		
61	12.7	10.7	16.1
70	11.0	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#38

Carbon Tetrachloride

Concen: 48.985 ug/l

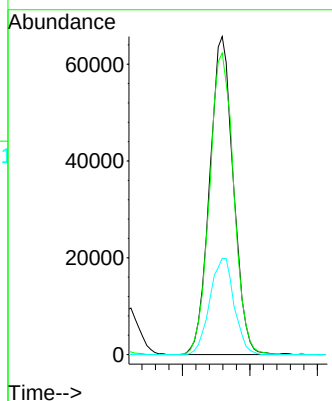
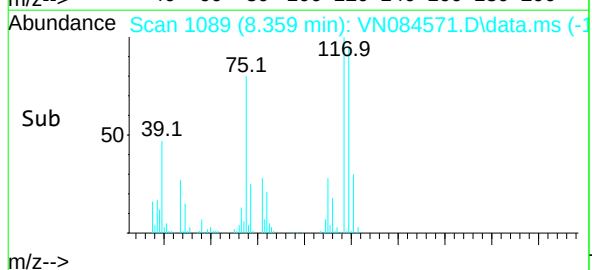
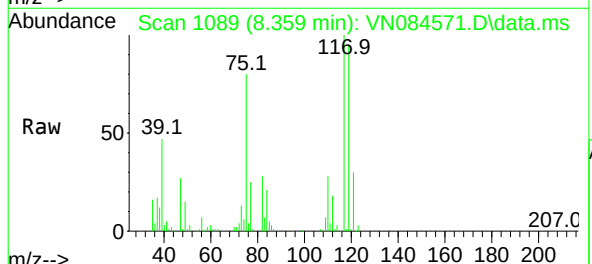
RT: 8.359 min Scan# 1089

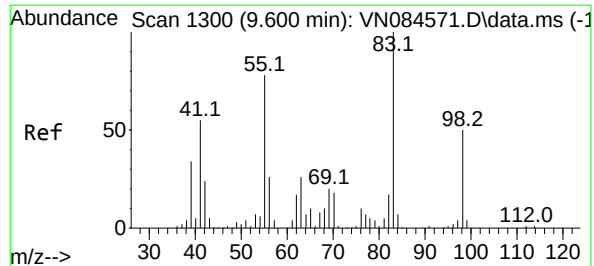
Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Tgt Ion:	117	Resp:	160134
Ion	Ratio	Lower	Upper
117	100		
119	94.8	78.7	118.1
121	30.3	24.4	36.6





#39

Methylcyclohexane

Concen: 53.267 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Tgt Ion: 83 Resp: 158489

Ion Ratio Lower Upper

83 100

55 77.5 62.8 94.2

98 49.6 38.8 58.2

Instrument :

MSVOA_N

ClientSampleId :

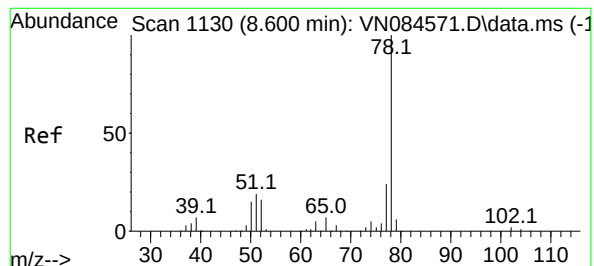
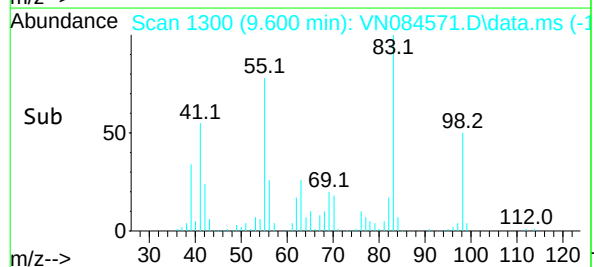
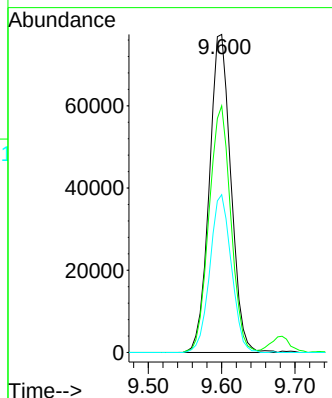
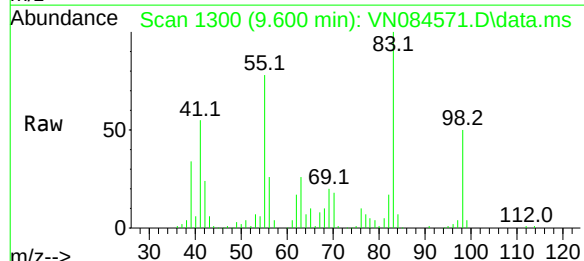
VSTDICCC050

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#40

Benzene

Concen: 48.024 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VN084571.D

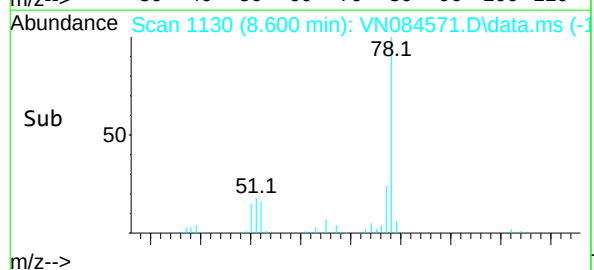
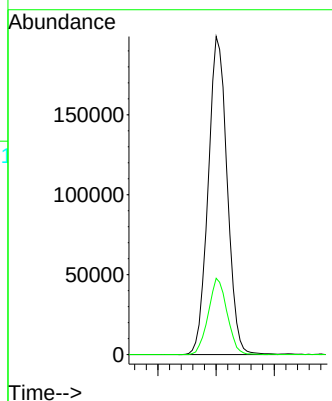
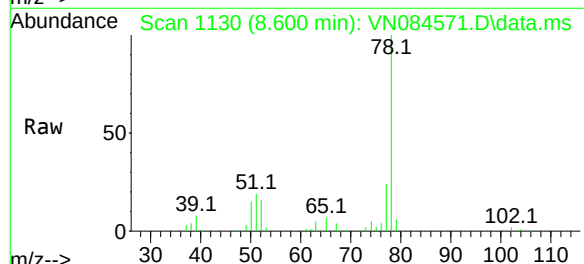
Acq: 30 Oct 2024 12:09

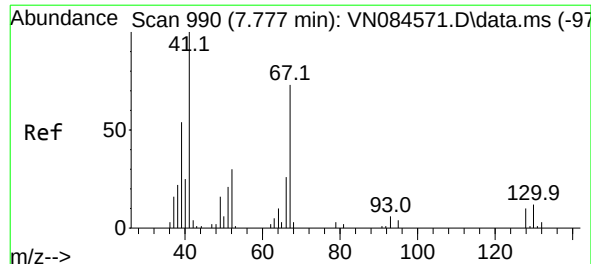
Tgt Ion: 78 Resp: 451074

Ion Ratio Lower Upper

78 100

77 24.0 19.1 28.7





#41

Methacrylonitrile

Concen: 53.814 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

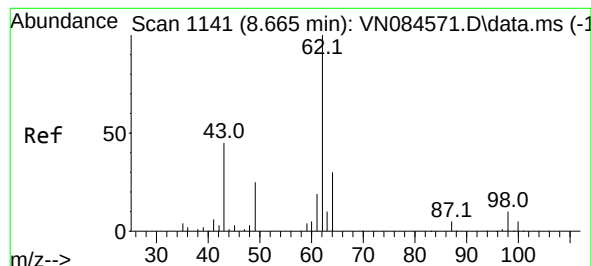
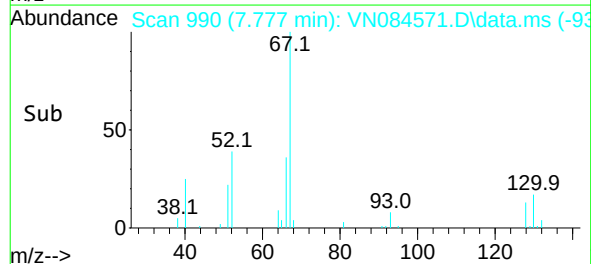
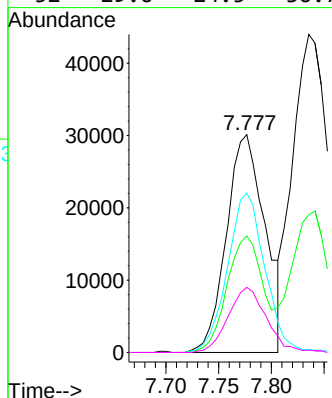
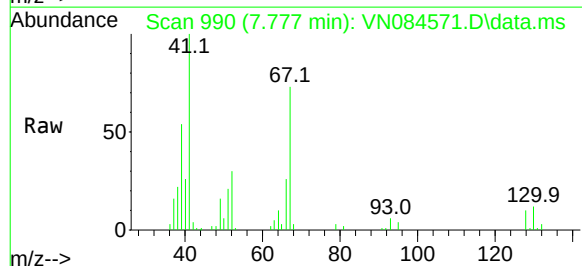
VSTDICCC050

Tgt Ion:	41	Resp:	76791
Ion	Ratio	Lower	Upper
41	100		
39	49.1	43.3	64.9
67	71.0	56.1	84.1
52	29.6	24.5	36.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#42

1,2-Dichloroethane

Concen: 50.614 ug/l

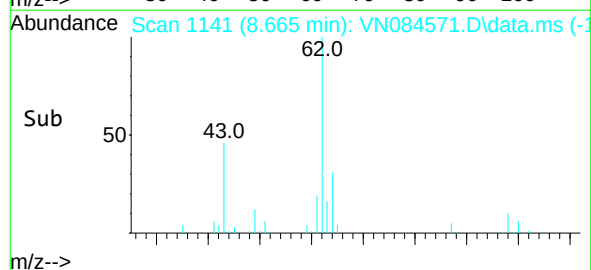
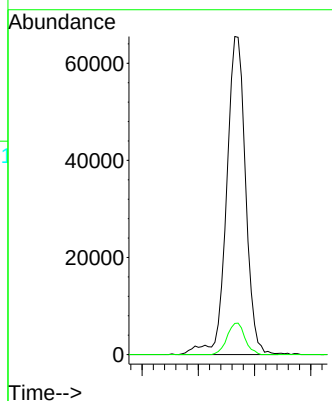
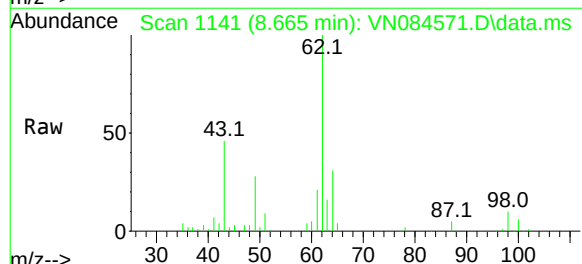
RT: 8.665 min Scan# 1141

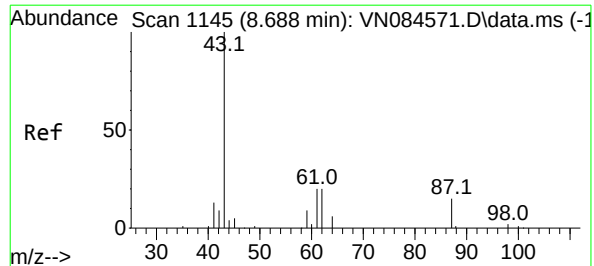
Delta R.T. -0.006 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Tgt Ion:	62	Resp:	153960
Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.2





#43

Isopropyl Acetate

Concen: 48.004 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

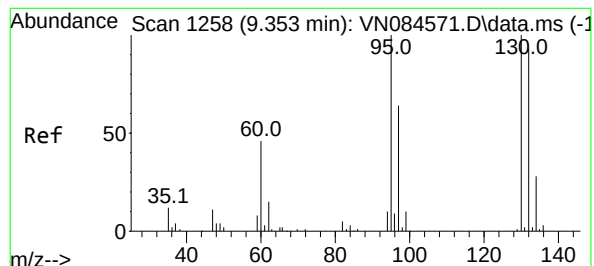
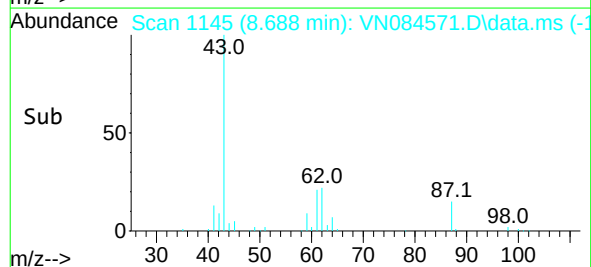
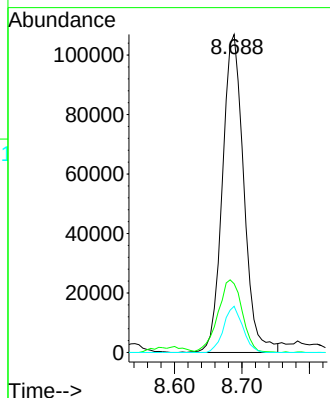
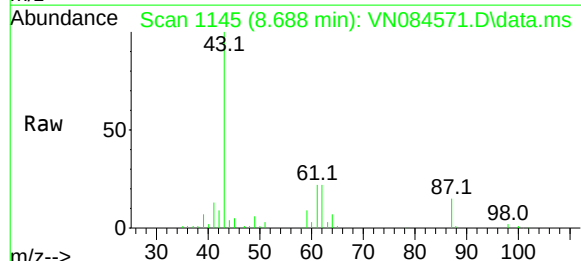
ClientSampleId :

VSTDICCC050

Tgt Ion:	43	Resp:	235517
Ion	Ratio	Lower	Upper
43	100		
61	25.9	20.4	30.6
87	13.0	10.3	15.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#44

Trichloroethene

Concen: 48.241 ug/l

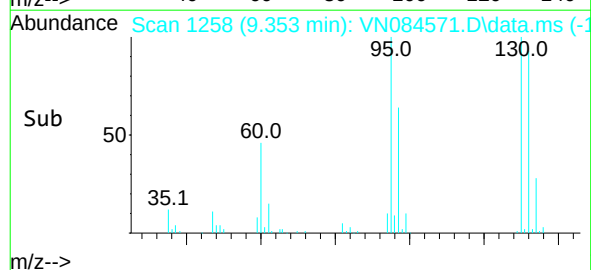
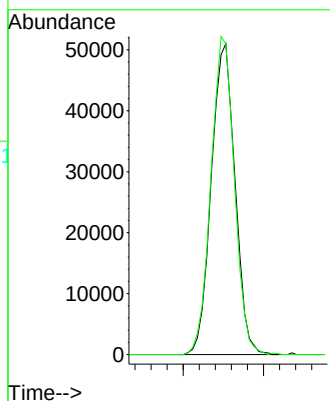
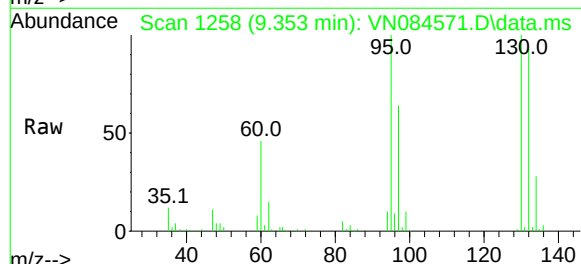
RT: 9.353 min Scan# 1258

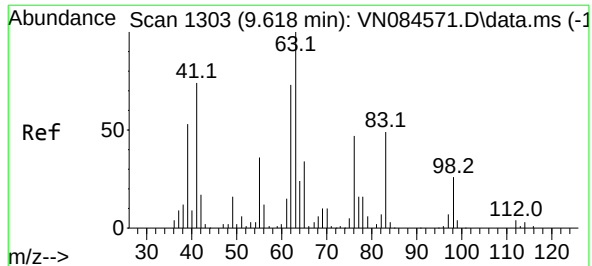
Delta R.T. 0.006 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Tgt Ion:	130	Resp:	104498
Ion	Ratio	Lower	Upper
130	100		
95	100.0	0.0	203.0





#45

1,2-Dichloropropane

Concen: 49.154 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 108302

Ion Ratio Lower Upper

63 100

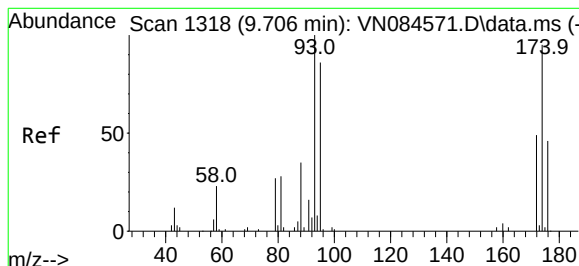
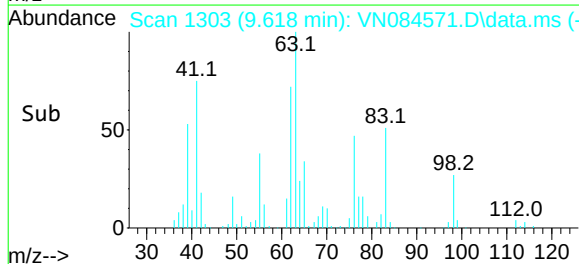
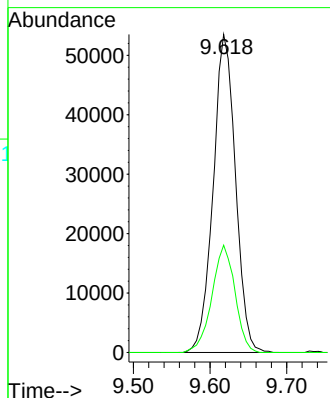
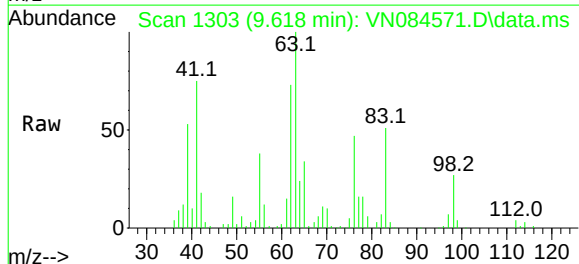
65 33.7 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#46

Dibromomethane

Concen: 48.895 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

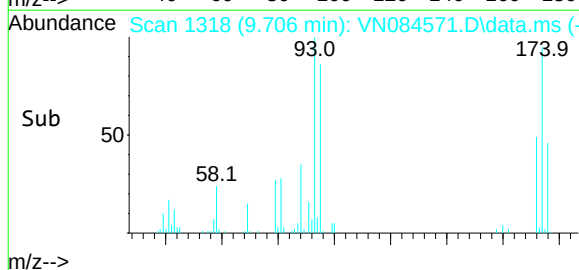
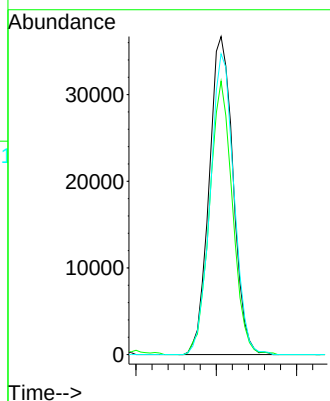
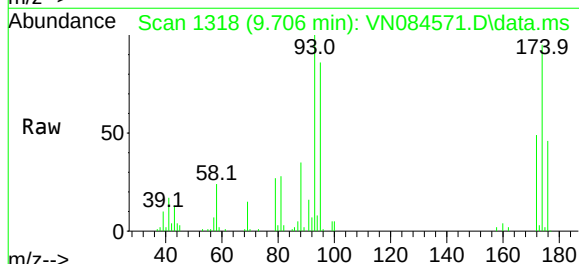
Tgt Ion: 93 Resp: 76019

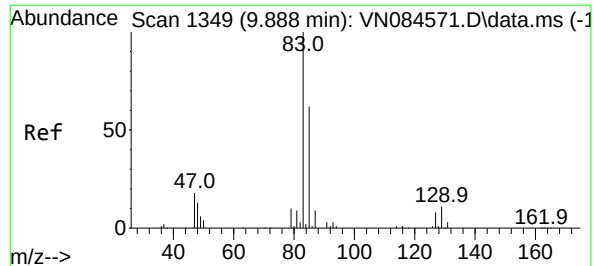
Ion Ratio Lower Upper

93 100

95 82.4 65.0 97.4

174 93.3 71.8 107.8





#47

Bromodichloromethane

Concen: 49.525 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

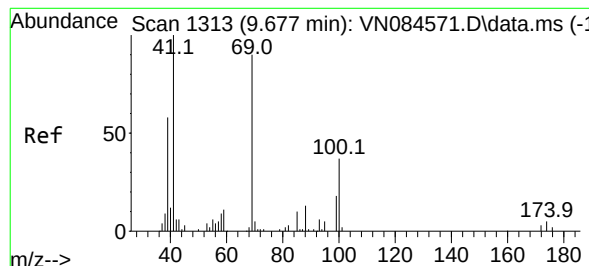
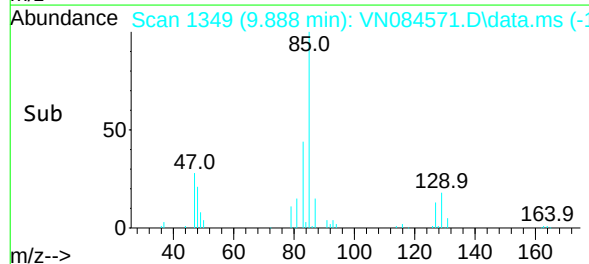
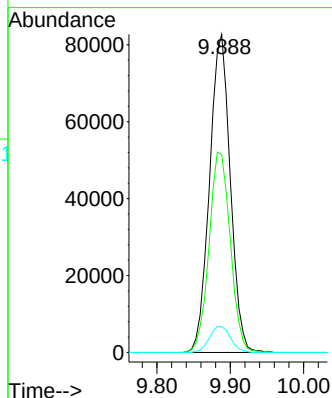
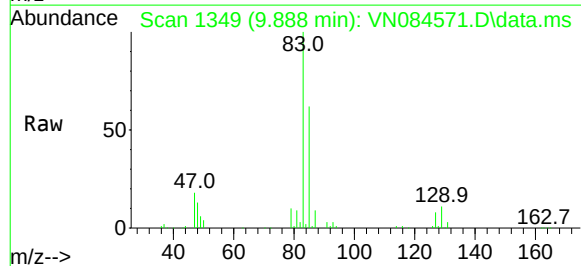
ClientSampleId :

VSTDICCC050

Tgt Ion:	83	Resp:	162307
Ion	Ratio	Lower	Upper
83	100		
85	62.2	51.5	77.3
127	8.1	5.7	8.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#48

Methyl methacrylate

Concen: 52.212 ug/l

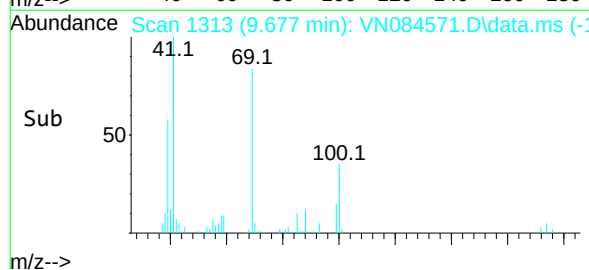
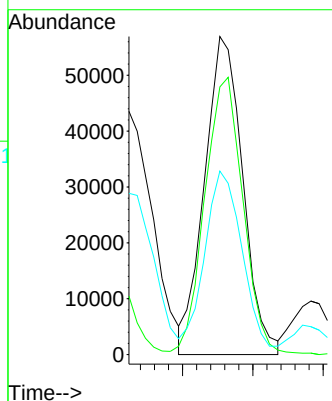
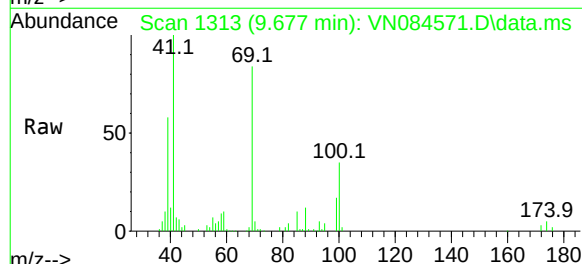
RT: 9.677 min Scan# 1313

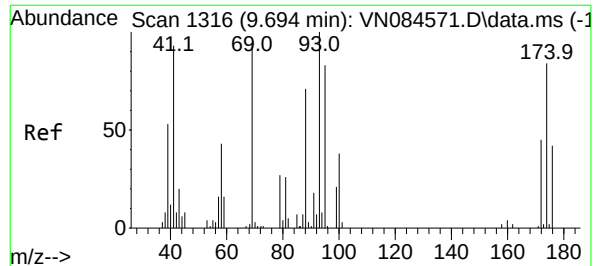
Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Tgt Ion:	41	Resp:	107828
Ion	Ratio	Lower	Upper
41	100		
69	87.1	67.1	100.7
39	57.5	45.8	68.6





#49

1,4-Dioxane

Concen: 1030.669 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 88 Resp: 37719

Ion Ratio Lower Upper

88 100

43 0.0 25.3 37.9

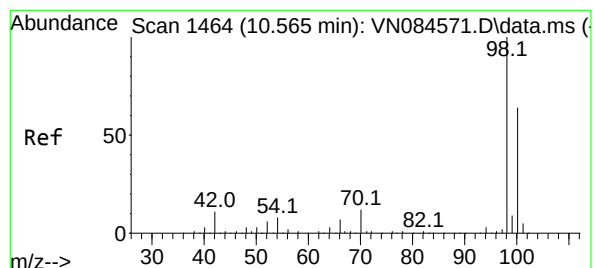
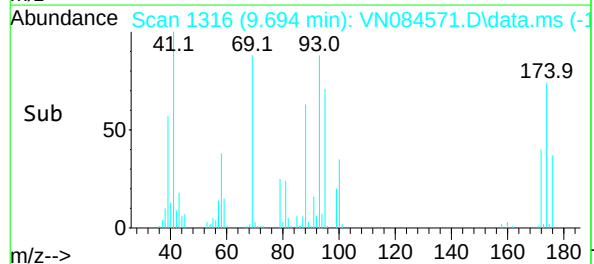
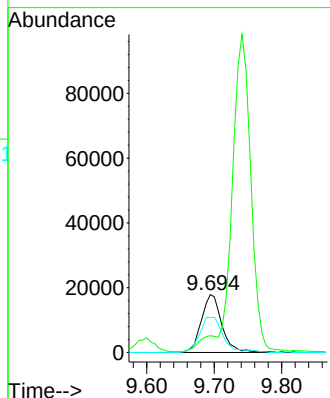
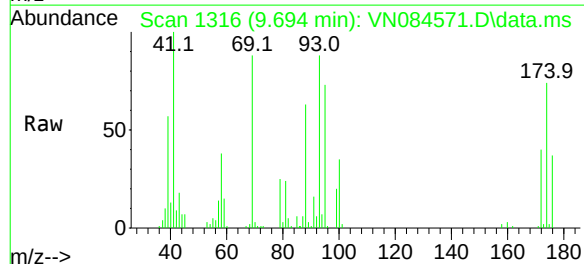
58 70.5 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#50

Toluene-d8

Concen: 52.247 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084571.D

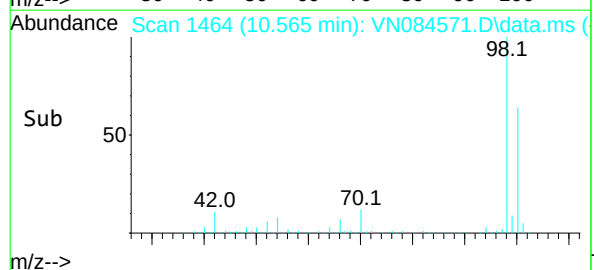
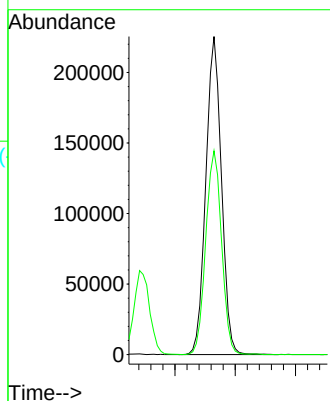
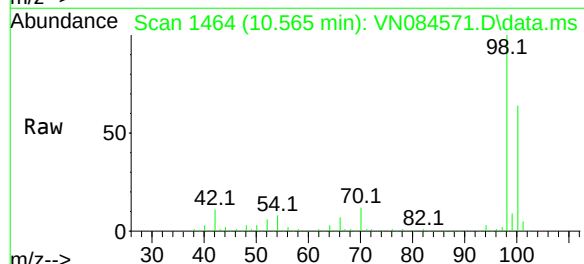
Acq: 30 Oct 2024 12:09

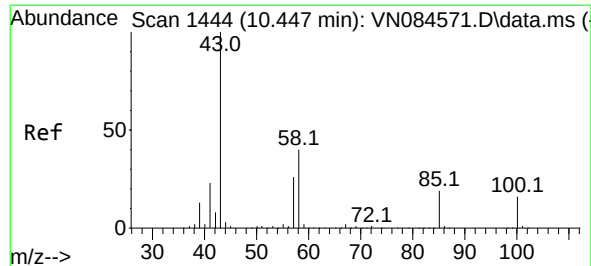
Tgt Ion: 98 Resp: 405874

Ion Ratio Lower Upper

98 100

100 65.1 52.7 79.1





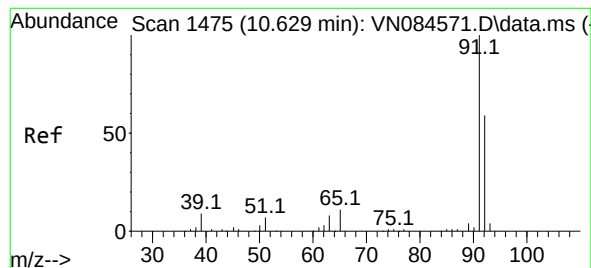
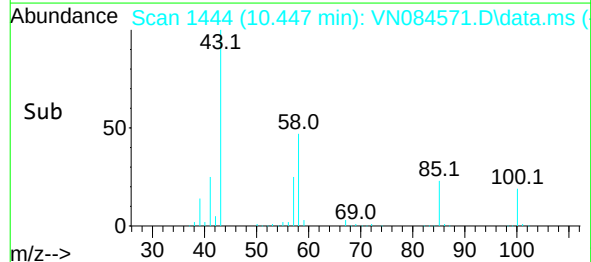
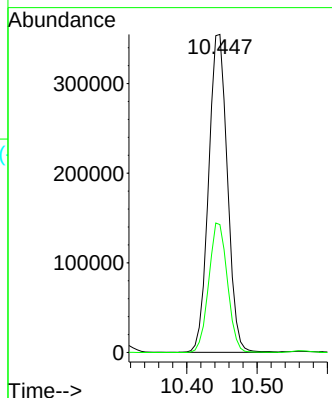
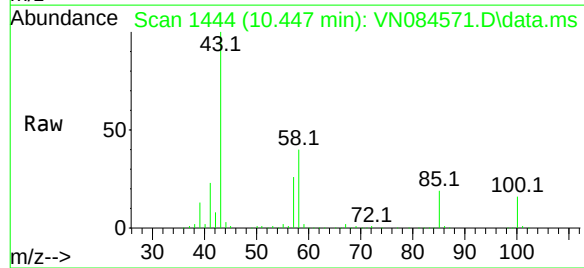
#51
4-Methyl-2-Pentanone
Concen: 260.254 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN084571.D
Acq: 30 Oct 2024 12:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 658351
Ion Ratio Lower Upper
43 100
58 40.4 31.6 47.4

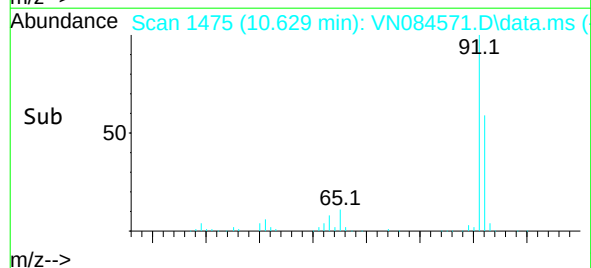
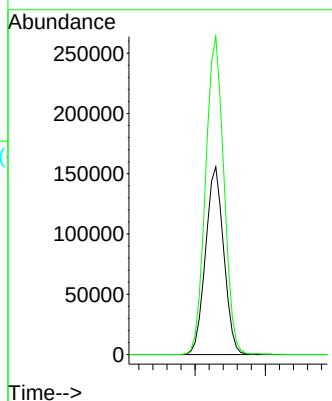
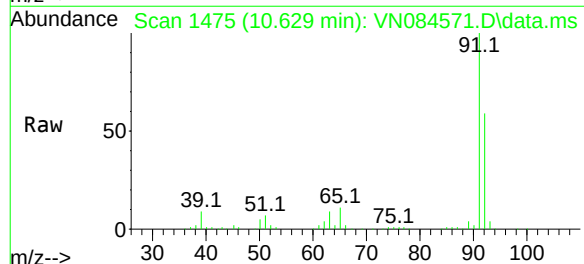
Manual Integrations
APPROVED

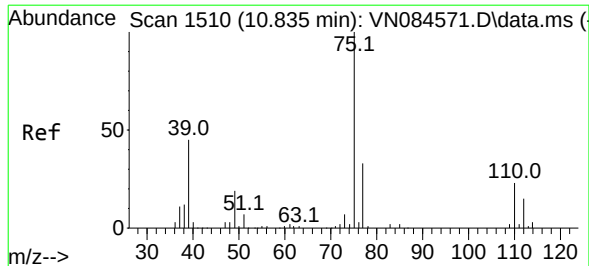
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#52
Toluene
Concen: 50.978 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN084571.D
Acq: 30 Oct 2024 12:09

Tgt Ion: 92 Resp: 280034
Ion Ratio Lower Upper
92 100
91 170.3 137.3 205.9





#53

t-1,3-Dichloropropene

Concen: 49.843 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 75 Resp: 169085

Ion Ratio Lower Upper

75 100

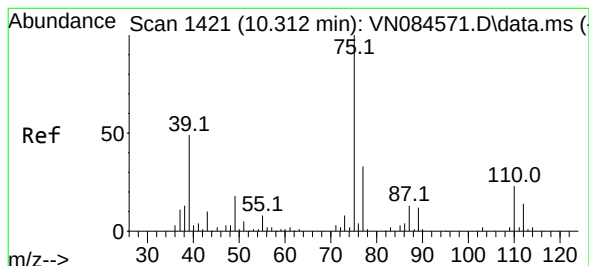
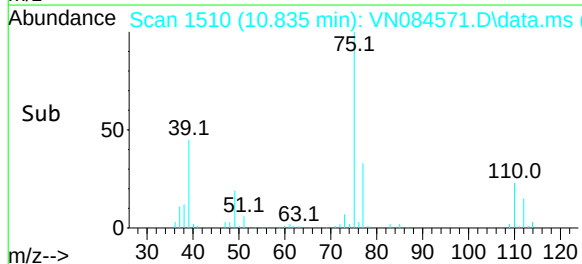
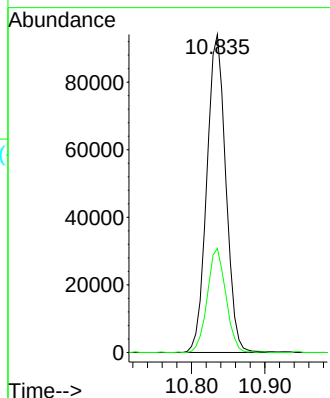
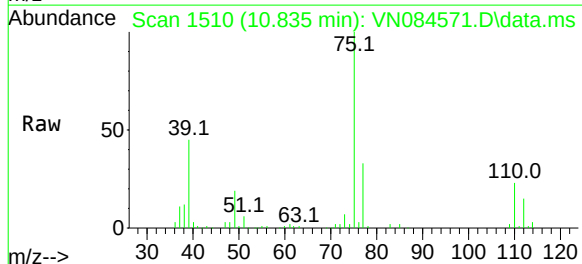
77 32.8 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#54

cis-1,3-Dichloropropene

Concen: 50.386 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

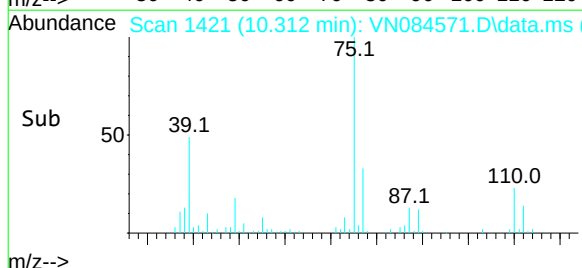
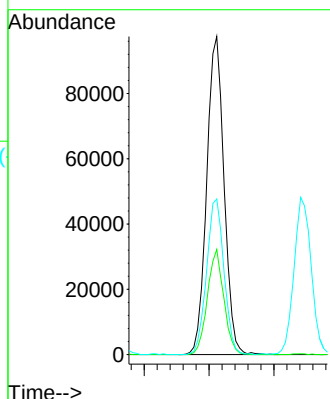
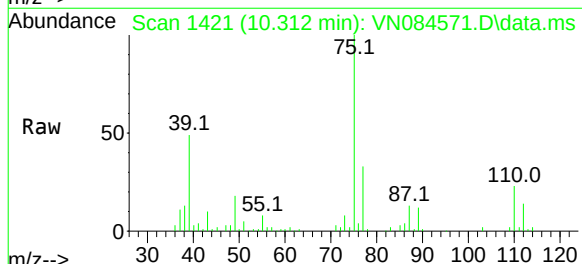
Tgt Ion: 75 Resp: 180909

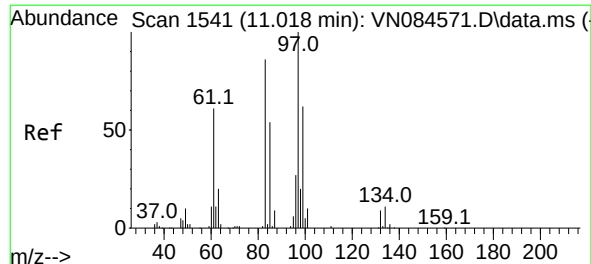
Ion Ratio Lower Upper

75 100

77 33.1 24.2 36.2

39 48.9 38.7 58.1





#55

1,1,2-Trichloroethane

Concen: 49.487 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. 0.006 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 97 Resp: 102401

Ion Ratio Lower Upper

97 100

83 86.4 71.0 106.4

85 54.2 41.7 62.5

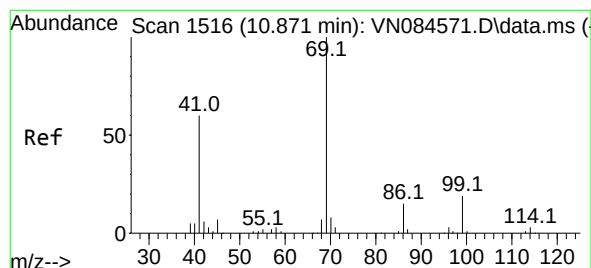
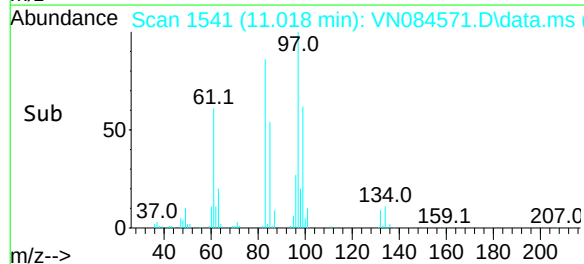
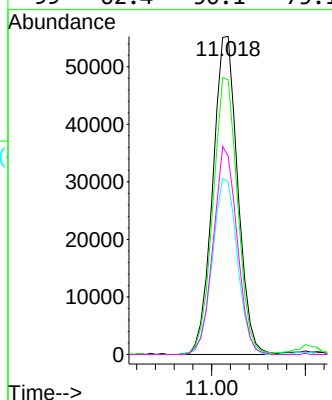
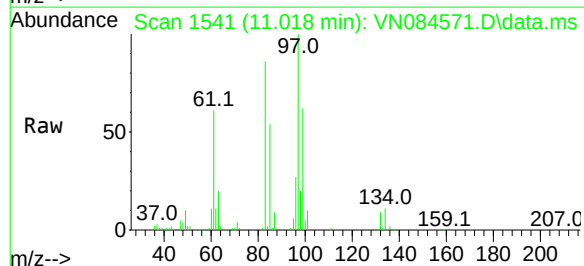
99 62.4 50.1 75.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#56

Ethyl methacrylate

Concen: 56.150 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

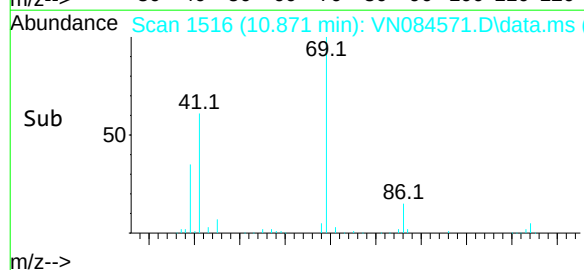
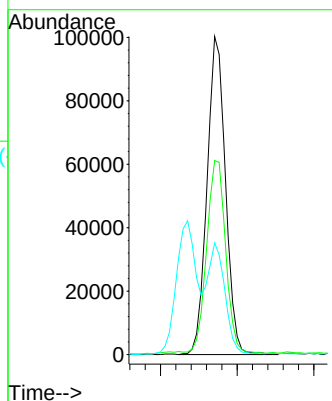
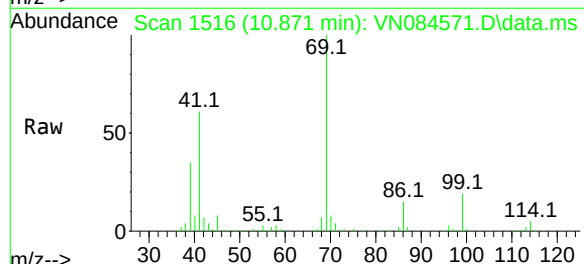
Tgt Ion: 69 Resp: 168060

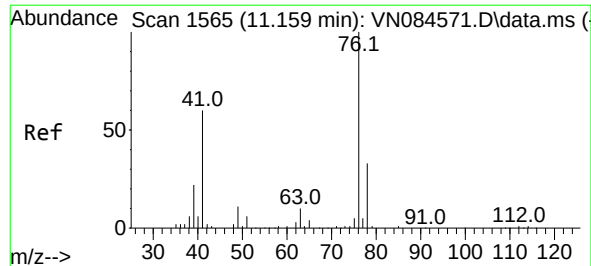
Ion Ratio Lower Upper

69 100

41 63.8 53.3 79.9

39 33.4 28.8 43.2





#57

1,3-Dichloropropane

Concen: 49.539 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 175929

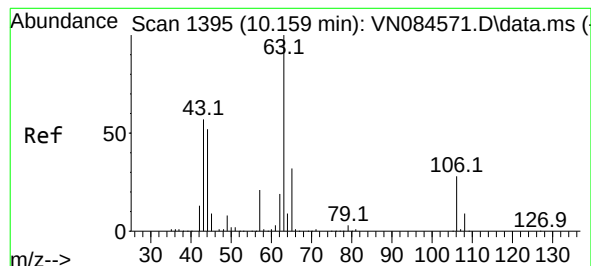
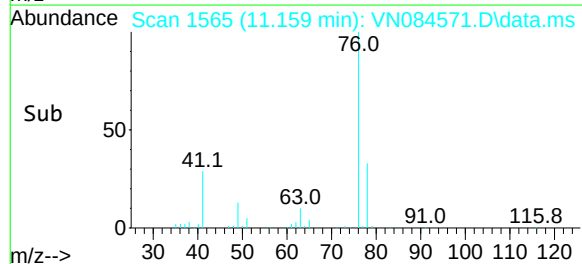
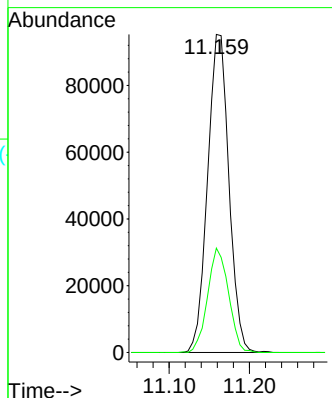
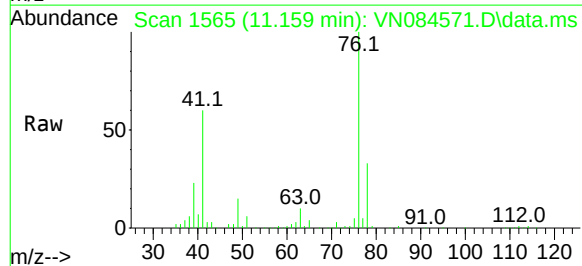
Ion Ratio Lower Upper

76 100

78 32.2 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#58

2-Chloroethyl Vinyl ether

Concen: 291.210 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN084571.D

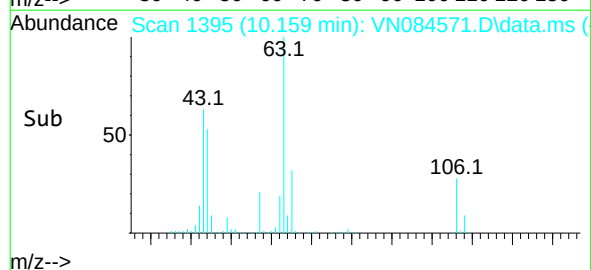
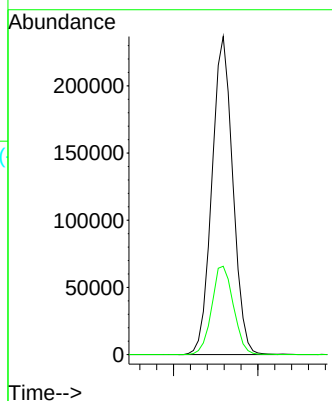
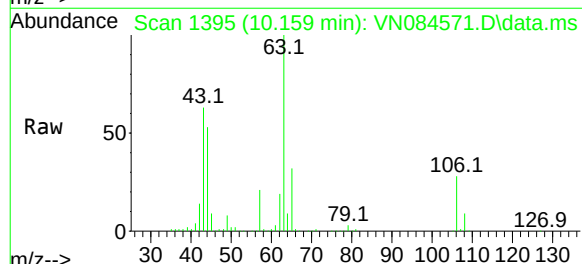
Acq: 30 Oct 2024 12:09

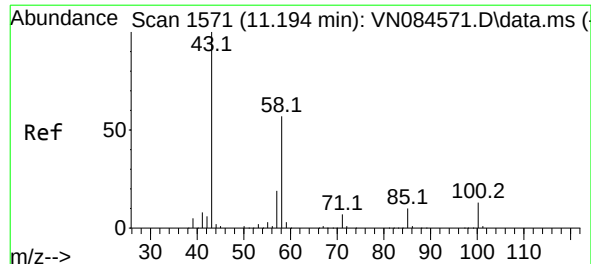
Tgt Ion: 63 Resp: 407857

Ion Ratio Lower Upper

63 100

106 28.9 21.8 32.6





#59

2-Hexanone

Concen: 263.615 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Tgt Ion: 43 Resp: 485391

Ion Ratio Lower Upper

43 100

58 56.0 27.3 81.8

Instrument :

MSVOA_N

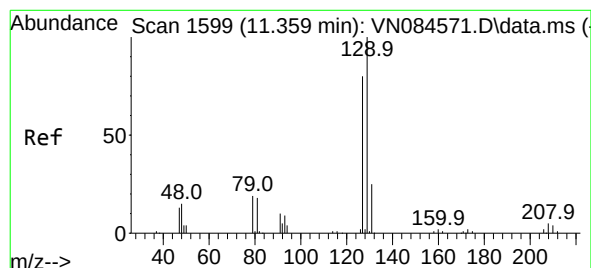
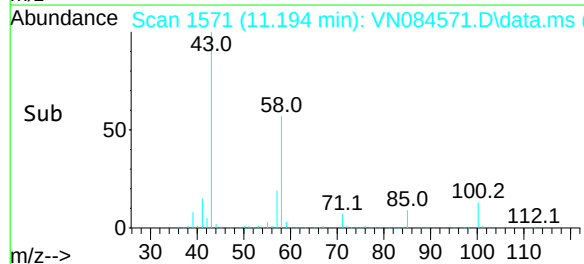
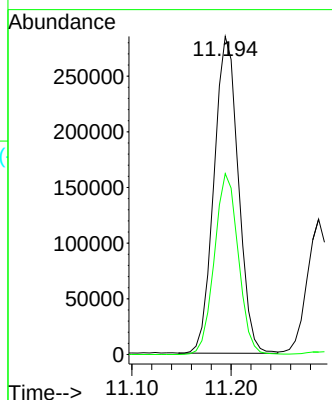
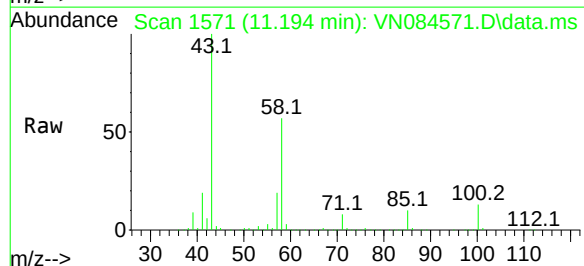
ClientSampleId :

VSTDICCC050

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#60

Dibromochloromethane

Concen: 52.078 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. -0.000 min

Lab File: VN084571.D

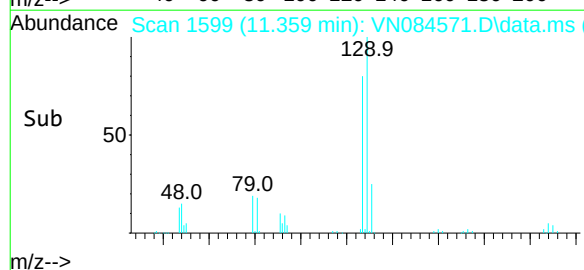
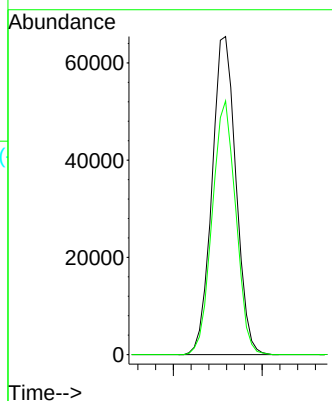
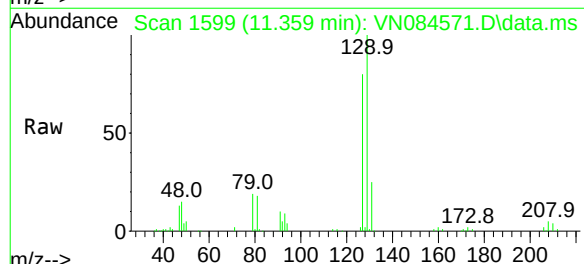
Acq: 30 Oct 2024 12:09

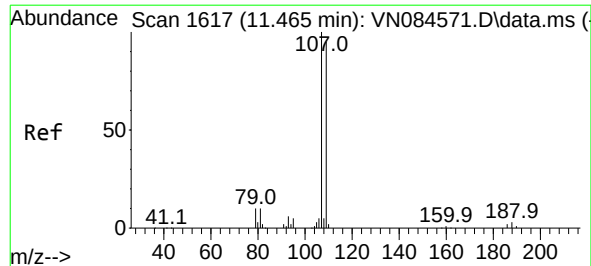
Tgt Ion:129 Resp: 122816

Ion Ratio Lower Upper

129 100

127 78.2 38.3 114.9





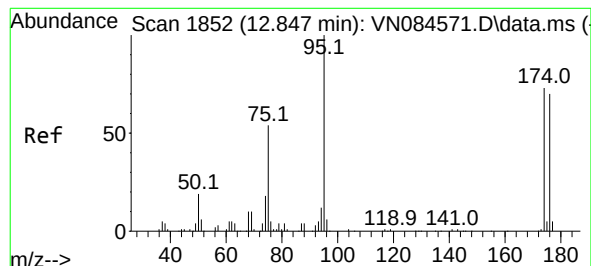
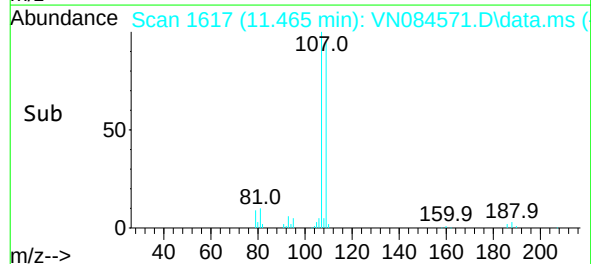
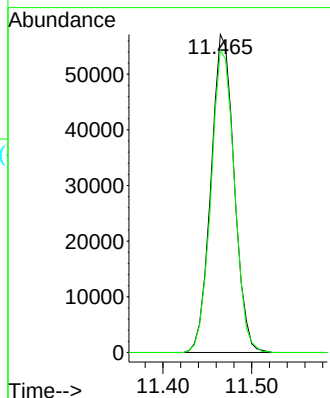
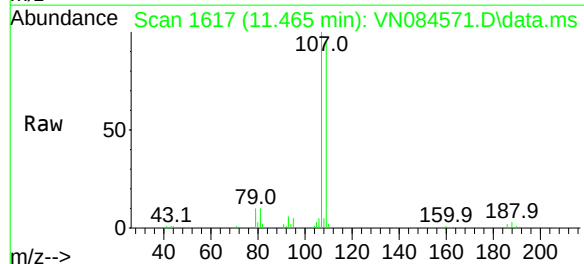
#61
1,2-Dibromoethane
Concen: 49.034 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN084571.D
Acq: 30 Oct 2024 12:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 107 Resp: 103901
Ion Ratio Lower Upper
107 100
109 96.1 75.4 113.0

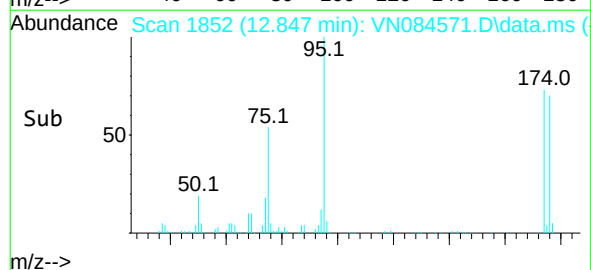
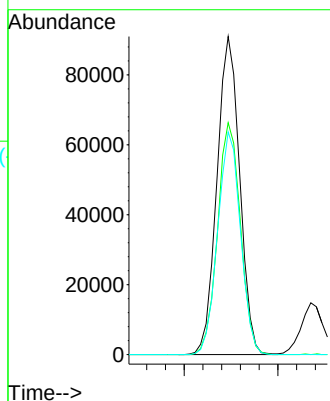
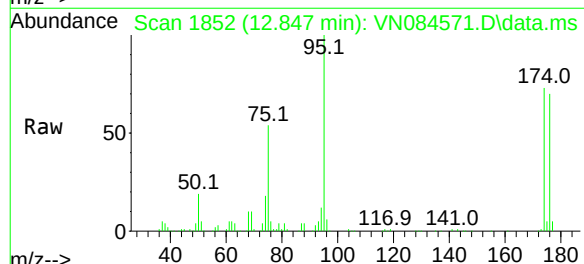
Manual Integrations
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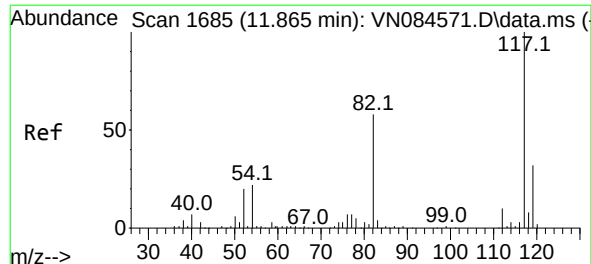
Reviewed By : Semsettin Yesilyurt 11/04/2024
Supervised By : Mahesh Dadoda 11/04/2024



#62
4-Bromofluorobenzene
Concen: 52.913 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084571.D
Acq: 30 Oct 2024 12:09

Tgt Ion: 95 Resp: 153622
Ion Ratio Lower Upper
95 100
174 73.2 0.0 145.2
176 70.0 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:117 Resp: 279228

Ion Ratio Lower Upper

117 100

82 58.3 47.2 70.8

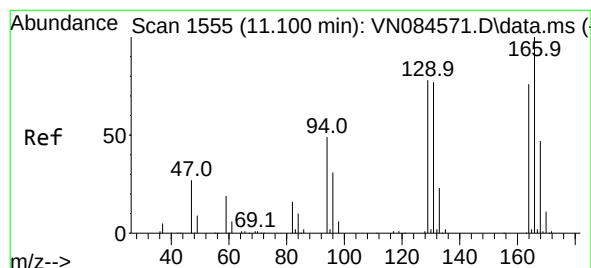
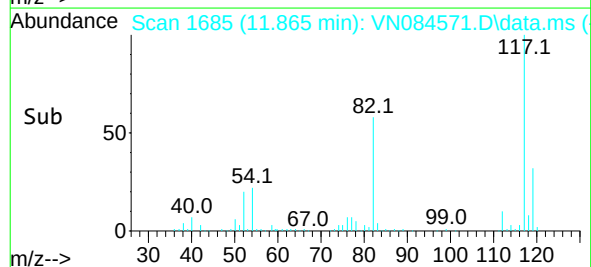
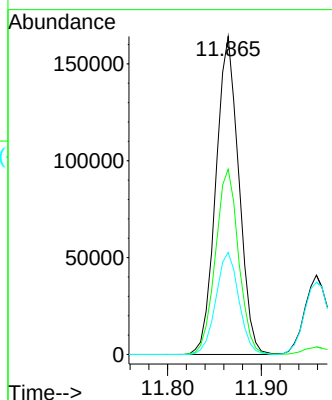
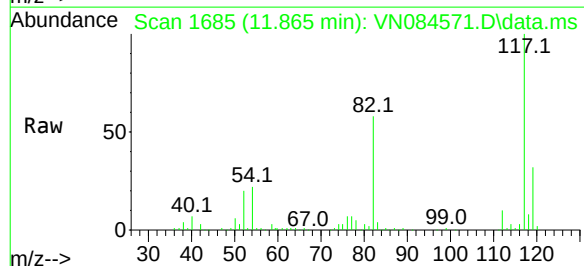
119 32.1 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#64

Tetrachloroethene

Concen: 47.088 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Tgt Ion:164 Resp: 87457

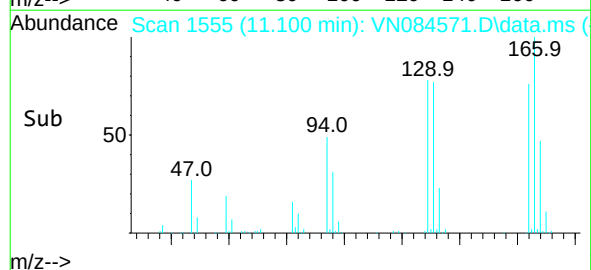
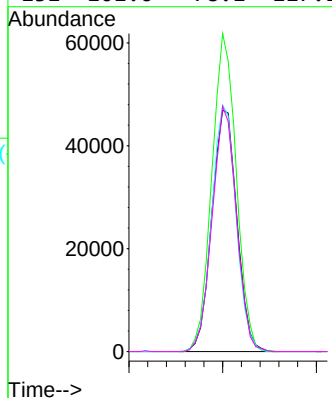
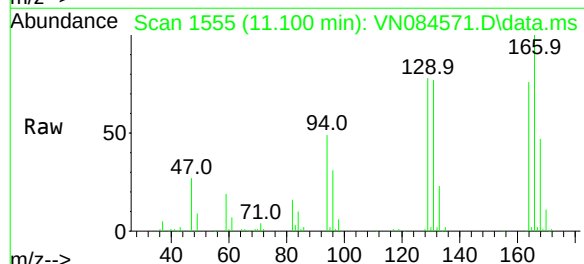
Ion Ratio Lower Upper

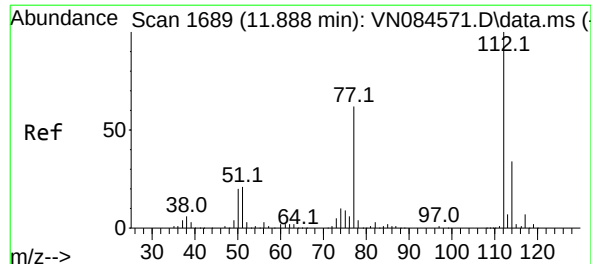
164 100

166 131.8 101.0 151.4

129 102.2 80.8 121.2

131 101.6 78.1 117.1





#65

Chlorobenzene

Concen: 47.416 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:112 Resp: 296199

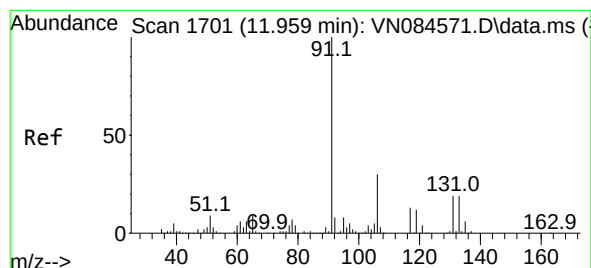
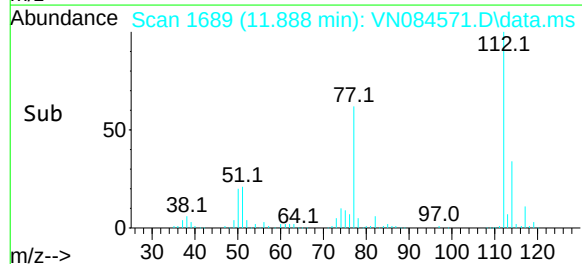
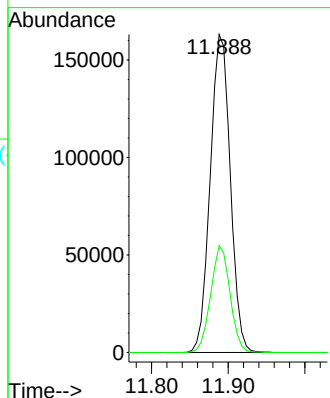
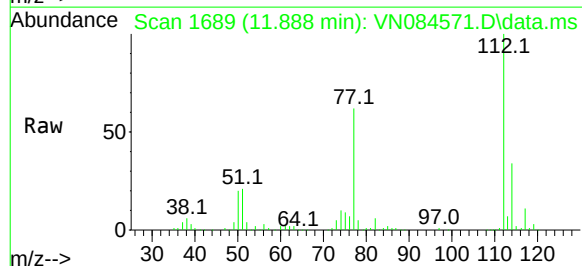
Ion Ratio Lower Upper

112 100

114 33.6 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#66

1,1,1,2-Tetrachloroethane

Concen: 48.252 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

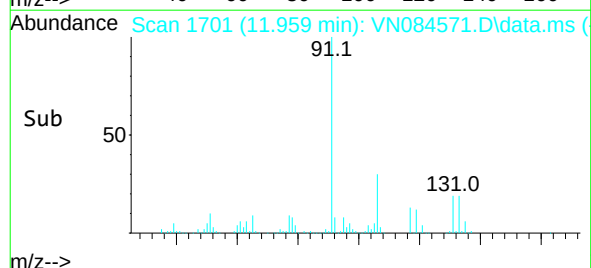
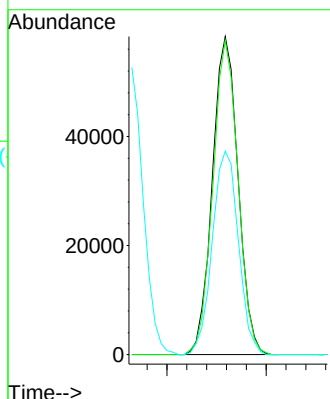
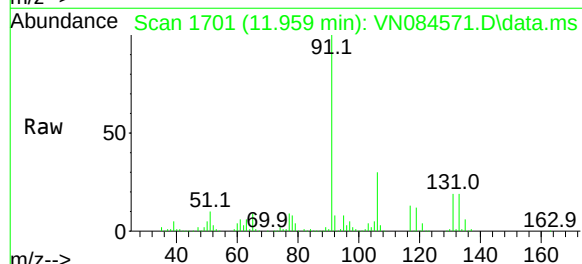
Tgt Ion:131 Resp: 104844

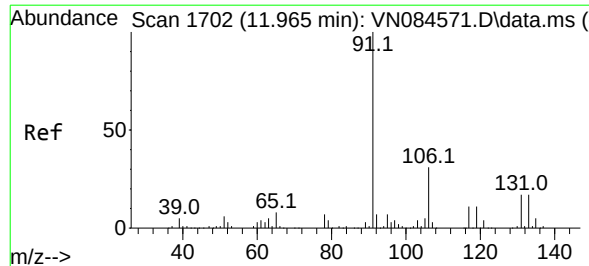
Ion Ratio Lower Upper

131 100

133 96.7 47.9 143.7

119 65.0 32.8 98.3





#67

Ethyl Benzene

Concen: 50.646 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.006 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 528107

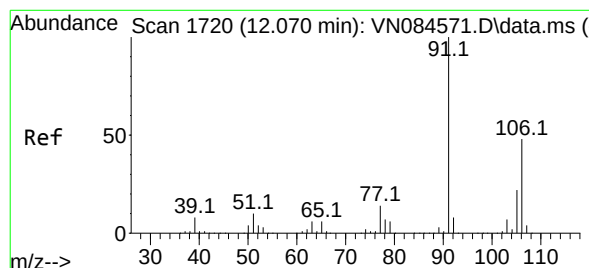
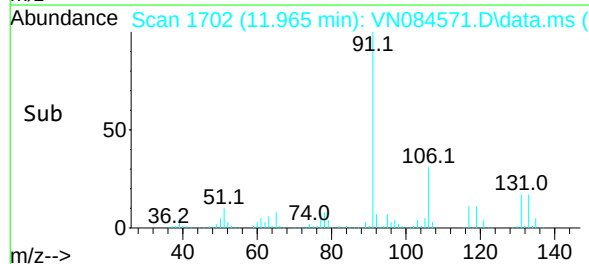
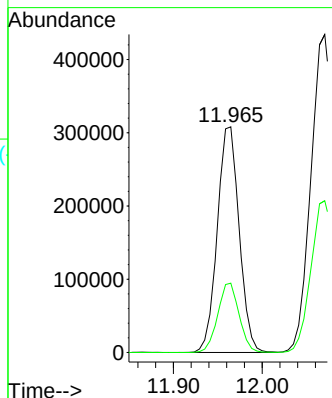
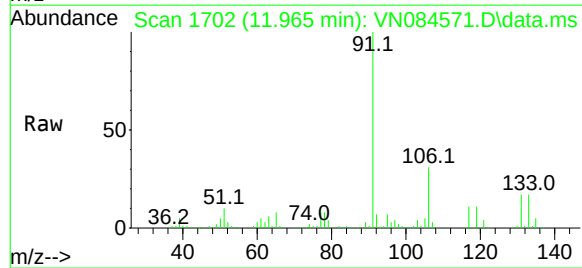
Ion Ratio Lower Upper

91 100

106 30.7 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#68

m/p-Xylenes

Concen: 103.053 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN084571.D

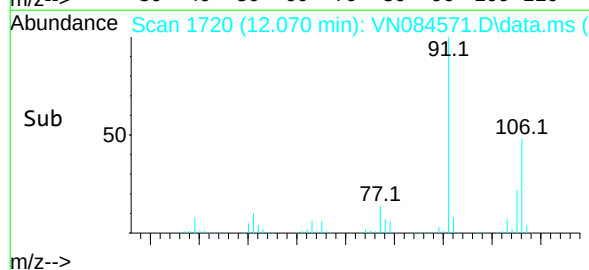
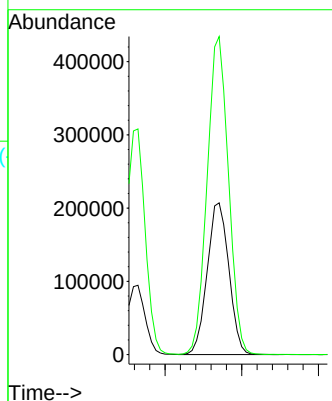
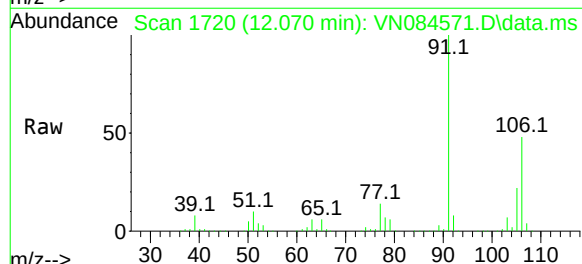
Acq: 30 Oct 2024 12:09

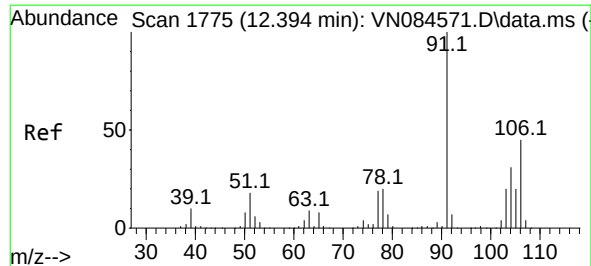
Tgt Ion:106 Resp: 406816

Ion Ratio Lower Upper

106 100

91 206.2 167.1 250.7





#69

o-Xylene

Concen: 52.183 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:106 Resp: 192710

Ion Ratio Lower Upper

106 100

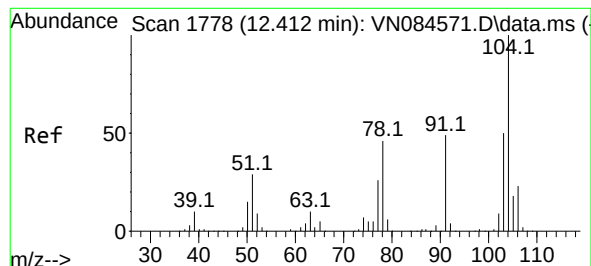
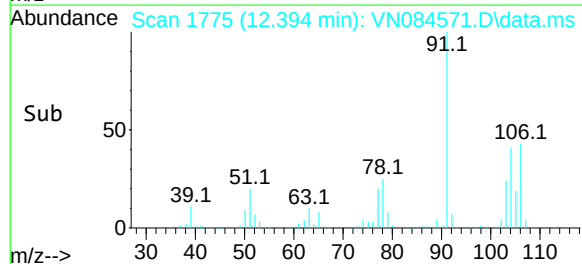
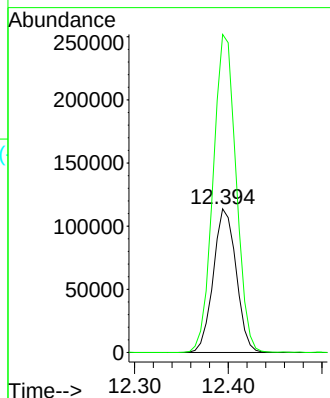
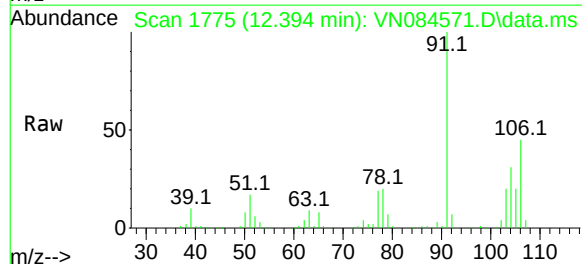
91 222.8 110.2 330.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#70

Styrene

Concen: 52.245 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

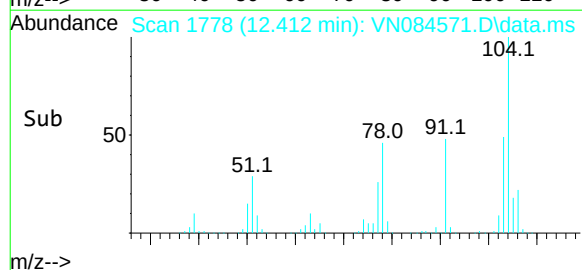
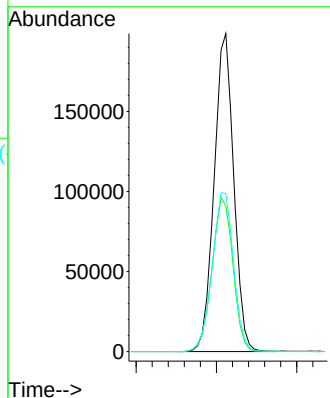
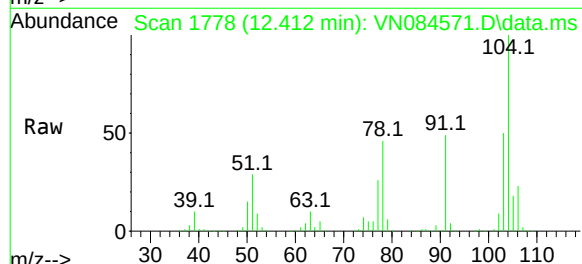
Tgt Ion:104 Resp: 336570

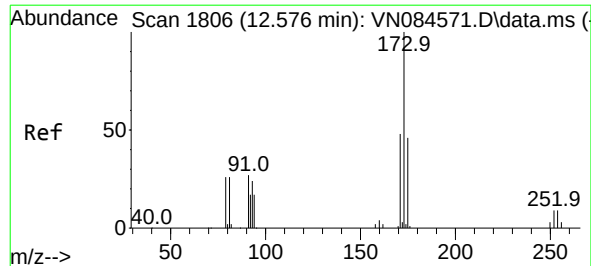
Ion Ratio Lower Upper

104 100

78 51.7 42.7 64.1

103 54.4 43.6 65.4





#71

Bromoform

Concen: 50.303 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

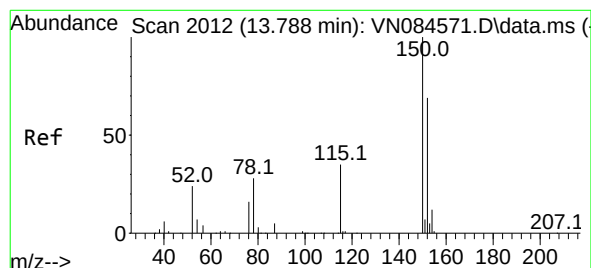
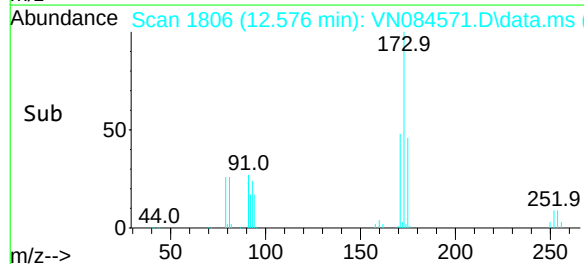
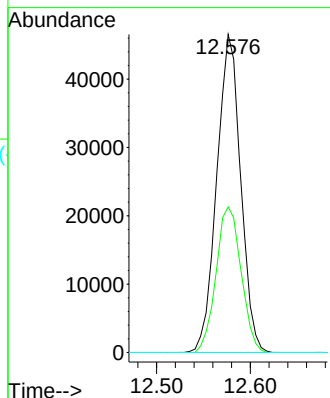
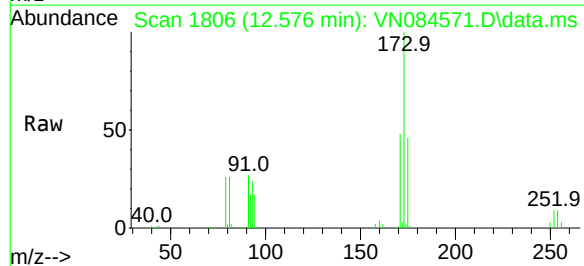
VSTDICCC050

Tgt Ion:	173	Resp:	82245
Ion Ratio	Lower	Upper	
173	100		
175	47.9	23.5	70.6
254	0.0	0.0	0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

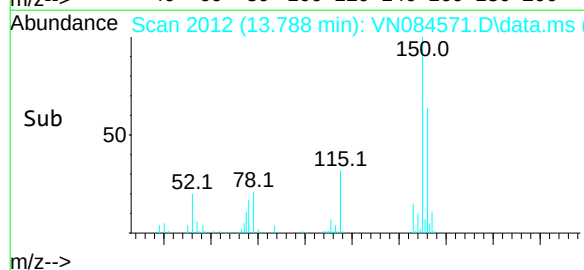
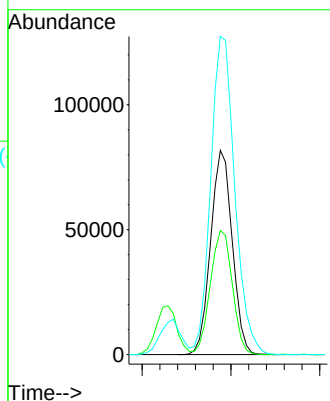
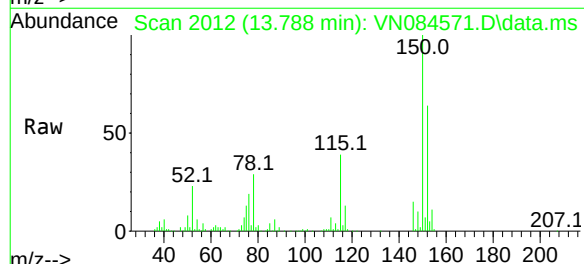
RT: 13.788 min Scan# 2012

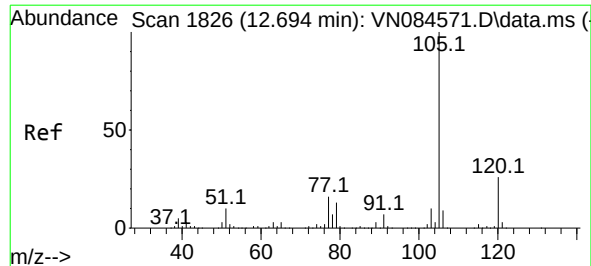
Delta R.T. 0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Tgt Ion:	152	Resp:	138307
Ion Ratio	Lower	Upper	
152	100		
115	61.6	31.3	93.9
150	173.8	0.0	349.8





#73

Isopropylbenzene

Concen: 50.942 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN084571.D

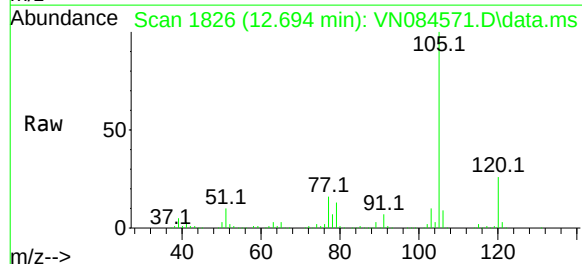
Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050



Tgt Ion: 105 Resp: 493742

Ion Ratio Lower Upper

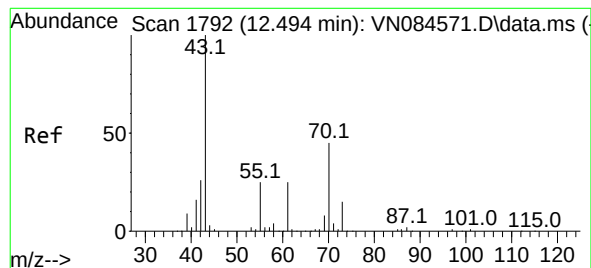
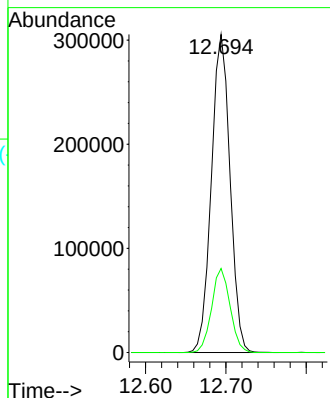
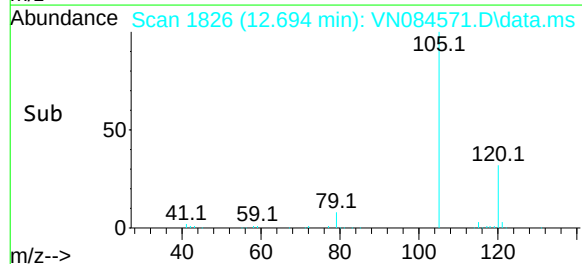
105 100

120 26.1 12.9 38.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#74

N-ethyl acetate

Concen: 51.228 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Tgt Ion: 43 Resp: 211326

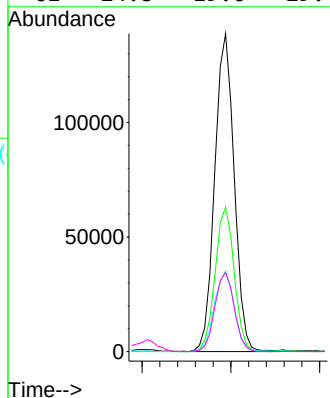
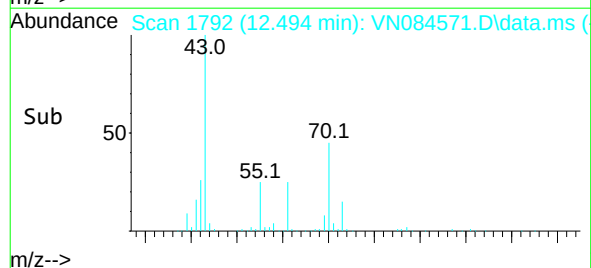
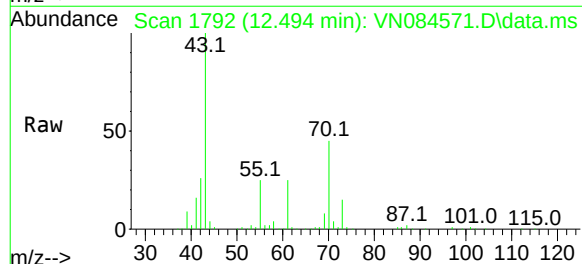
Ion Ratio Lower Upper

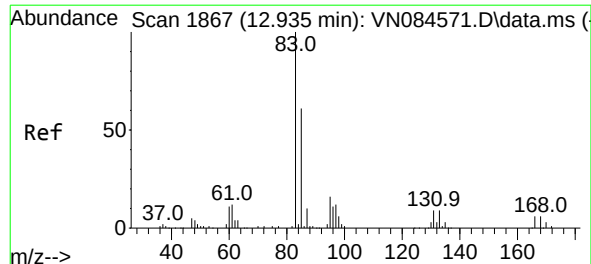
43 100

70 44.6 34.4 51.6

55 25.9 19.6 29.4

61 24.8 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 45.884 ug/l

RT: 12.935 min Scan# 18

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

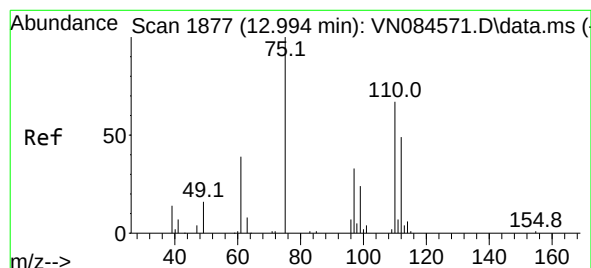
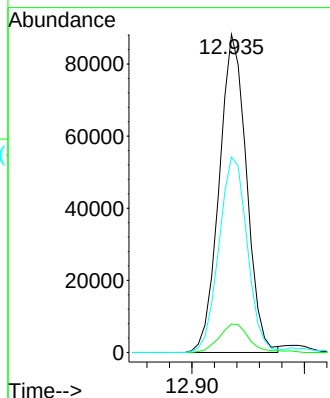
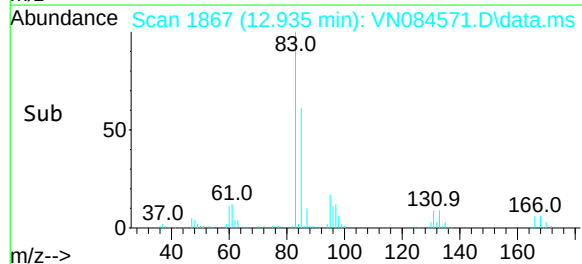
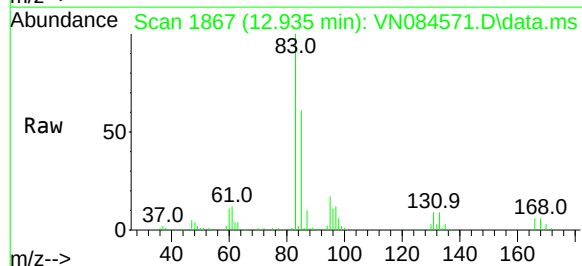
VSTDICCC050

Tgt Ion:	83	Resp:	148441
Ion	Ratio	Lower	Upper
83	100		
131	10.0	4.9	14.7
85	63.7	31.9	95.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#76

1,2,3-Trichloropropane

Concen: 44.939 ug/l m

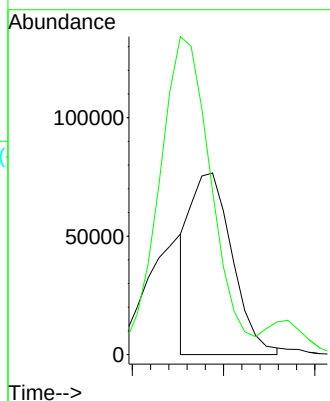
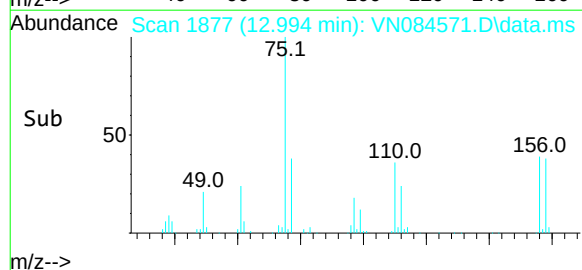
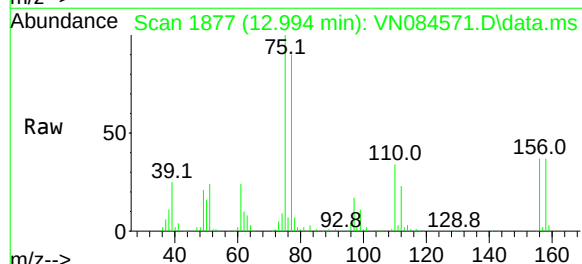
RT: 12.994 min Scan# 1877

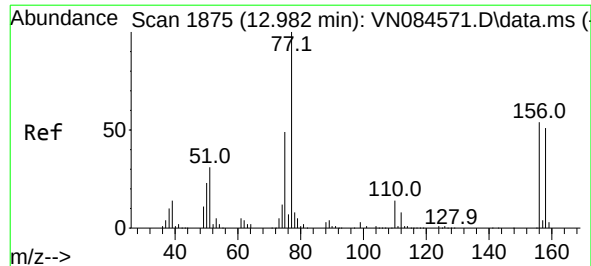
Delta R.T. 0.006 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Tgt Ion:	75	Resp:	122649
Ion	Ratio	Lower	Upper
75	100		
77	217.7	96.9	290.7





#77

Bromobenzene

Concen: 46.847 ug/l

RT: 12.982 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 156 Resp: 122062

Ion Ratio Lower Upper

156 100

77 218.7 115.1 345.3

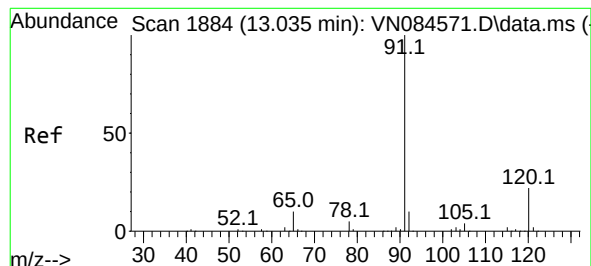
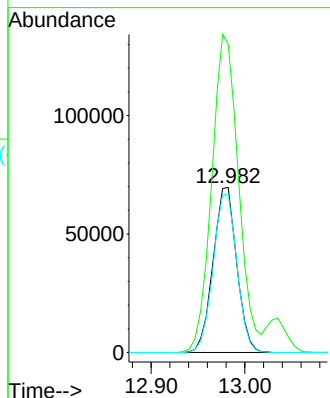
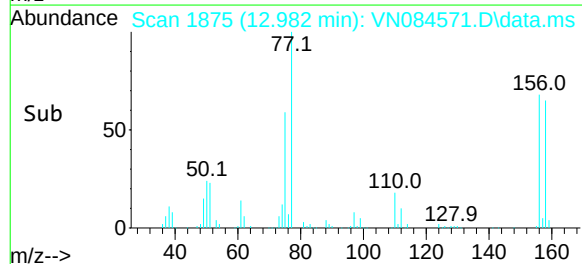
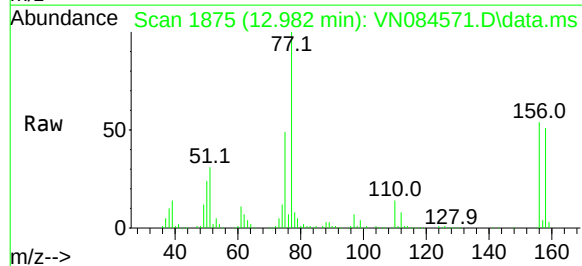
158 96.5 48.9 146.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#78

n-propylbenzene

Concen: 51.587 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.000 min

Lab File: VN084571.D

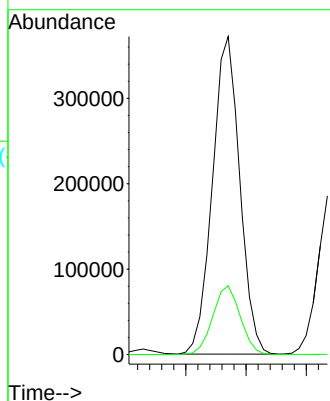
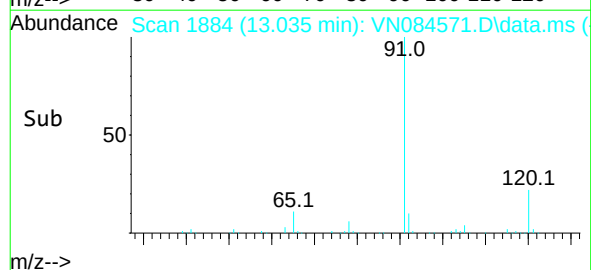
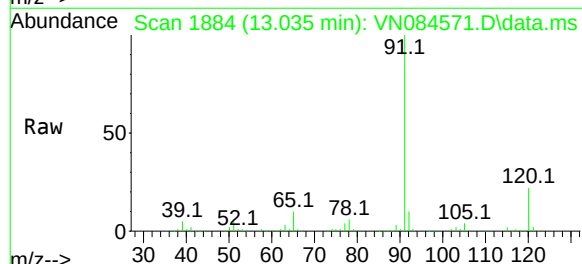
Acq: 30 Oct 2024 12:09

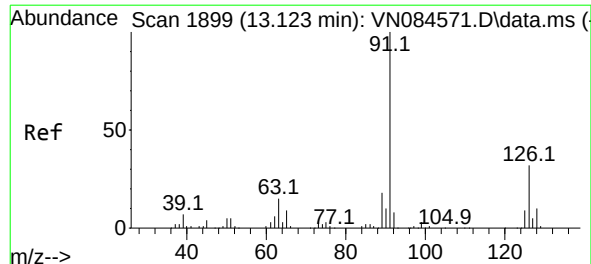
Tgt Ion: 91 Resp: 585903

Ion Ratio Lower Upper

91 100

120 21.8 10.8 32.4





#79

2-Chlorotoluene

Concen: 48.850 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 362526

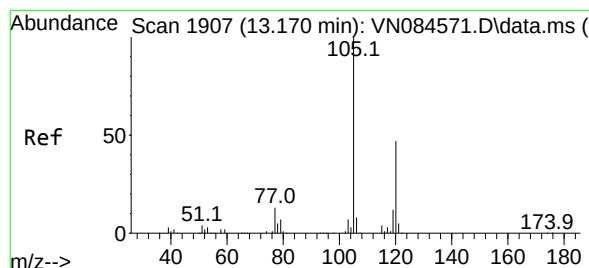
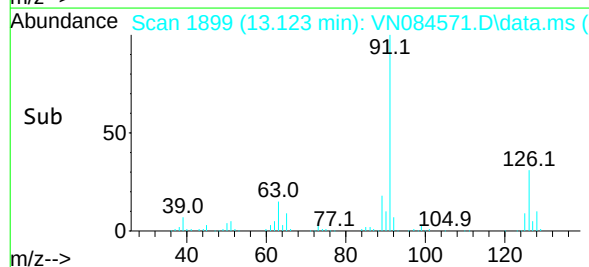
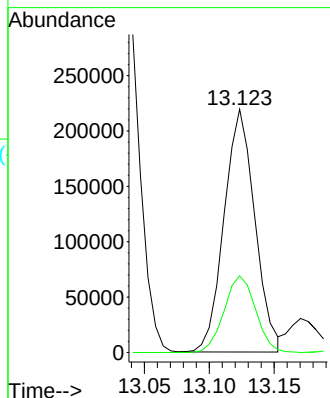
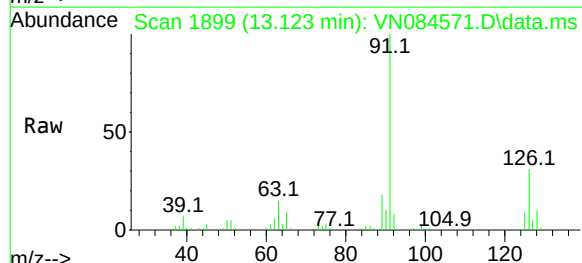
Ion Ratio Lower Upper

91 100

126 32.2 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#80

1,3,5-Trimethylbenzene

Concen: 52.823 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN084571.D

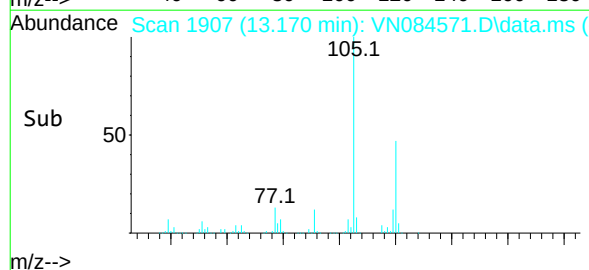
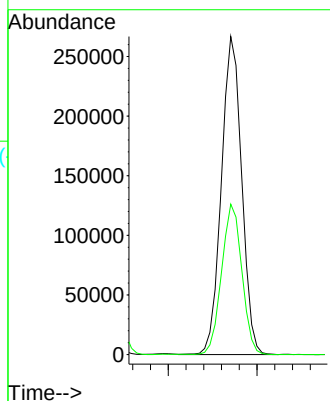
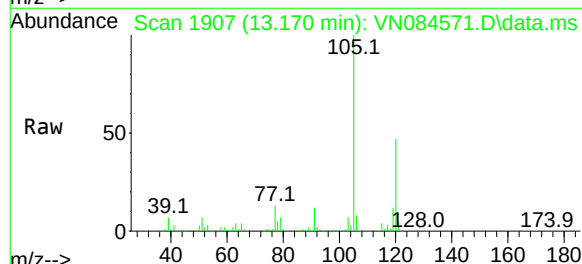
Acq: 30 Oct 2024 12:09

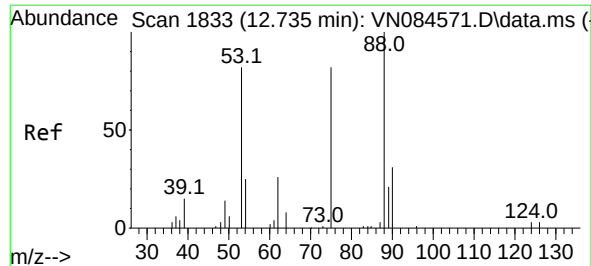
Tgt Ion:105 Resp: 424332

Ion Ratio Lower Upper

105 100

120 47.1 23.7 71.1





#81

trans-1,4-Dichloro-2-butene

Concen: 47.612 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

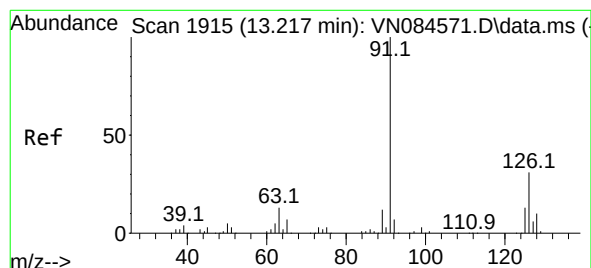
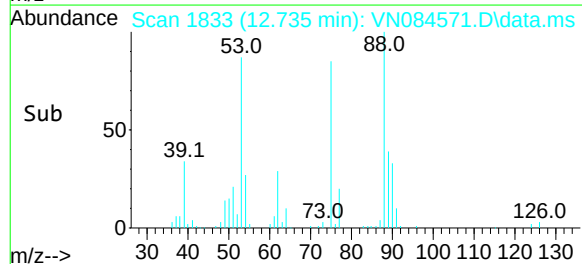
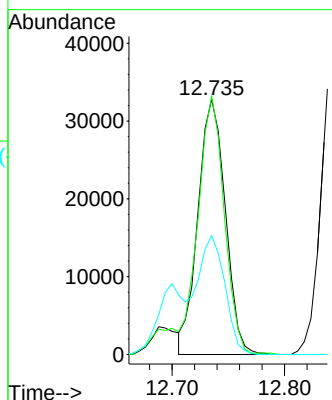
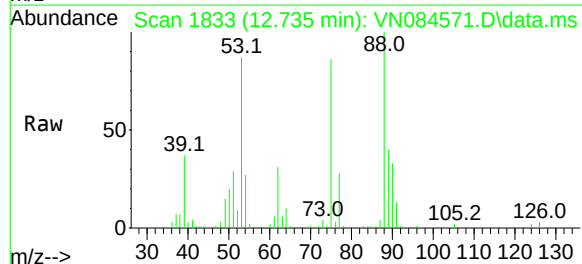
ClientSampleId :

VSTDICCC050

Tgt Ion:	75	Resp:	55485
Ion	Ratio	Lower	Upper
75	100		
53	107.3	78.0	117.0
89	47.3	35.5	53.3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#82

4-Chlorotoluene

Concen: 48.097 ug/l

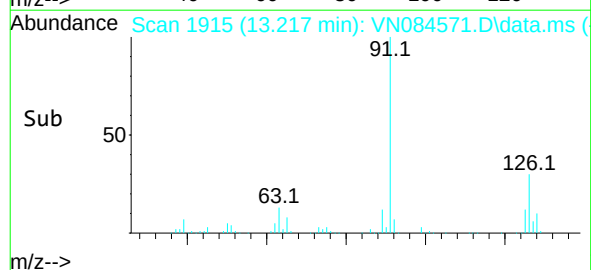
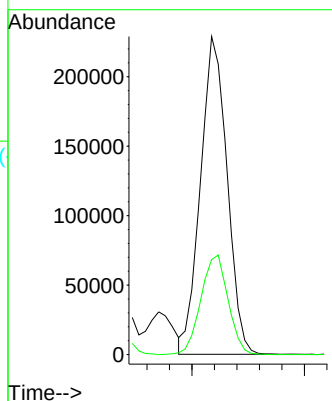
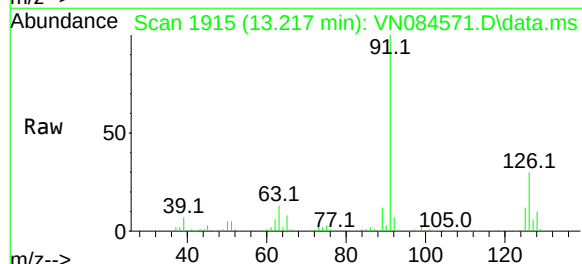
RT: 13.217 min Scan# 1915

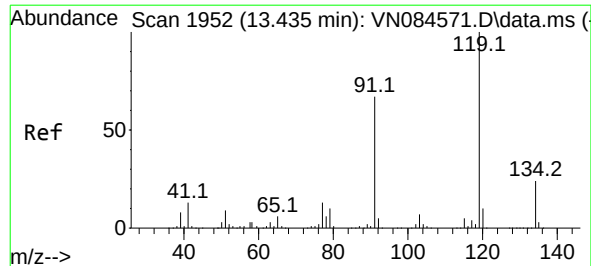
Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Tgt Ion:	91	Resp:	375636
Ion	Ratio	Lower	Upper
91	100		
126	32.1	15.7	47.1





#83

tert-Butylbenzene

Concen: 52.649 ug/l

RT: 13.435 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

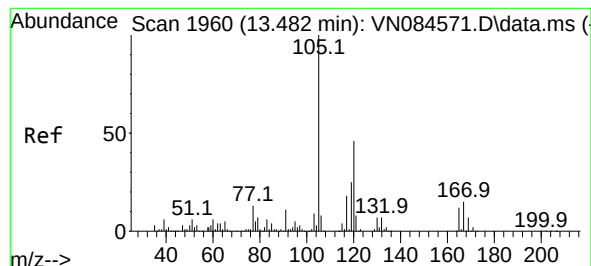
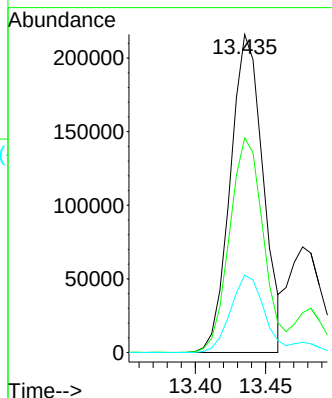
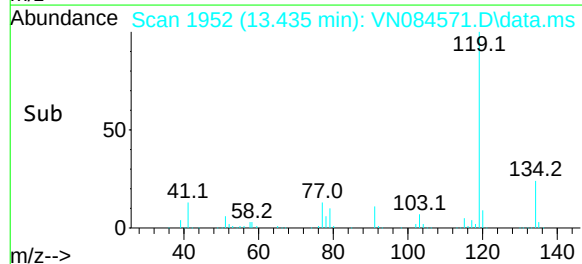
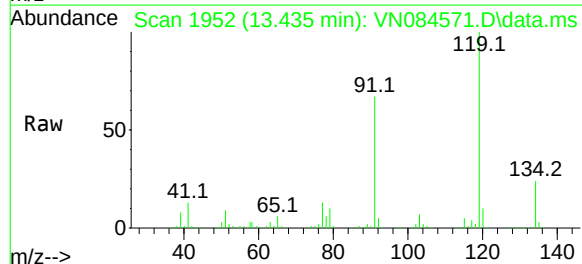
ClientSampleId :

VSTDICCC050

Tgt Ion:	119	Resp:	350031
Ion	Ratio	Lower	Upper
119	100		
91	69.8	34.1	102.3
134	24.7	12.8	38.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#84

1,2,4-Trimethylbenzene

Concen: 52.518 ug/l

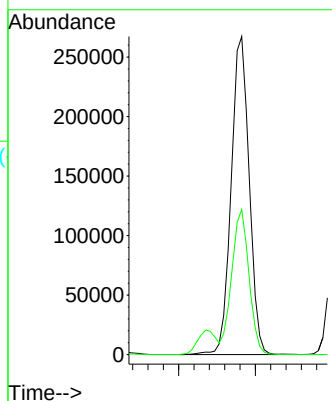
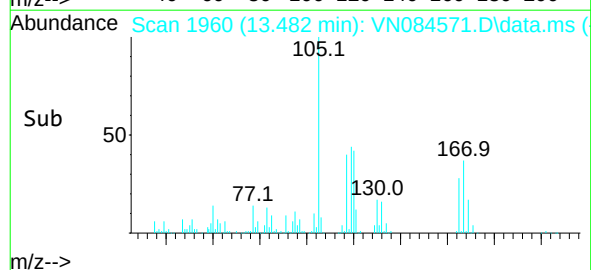
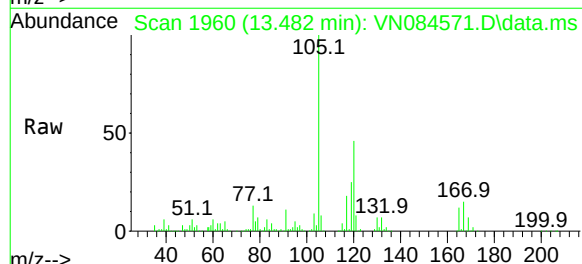
RT: 13.482 min Scan# 1960

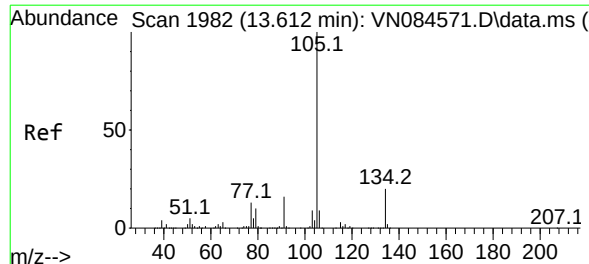
Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Tgt Ion:	105	Resp:	435421
Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.3	66.8





#85

sec-Butylbenzene

Concen: 52.102 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. -0.006 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:105 Resp: 489305

Ion Ratio Lower Upper

105 100

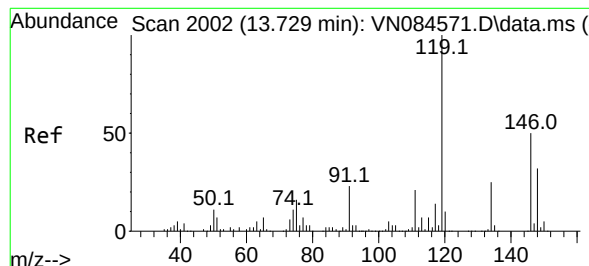
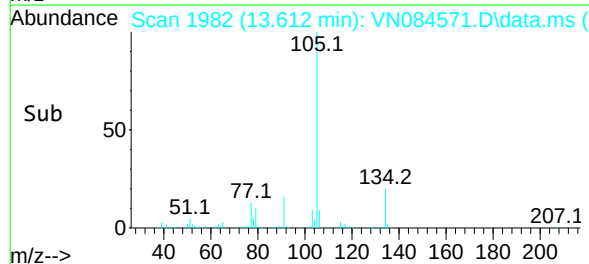
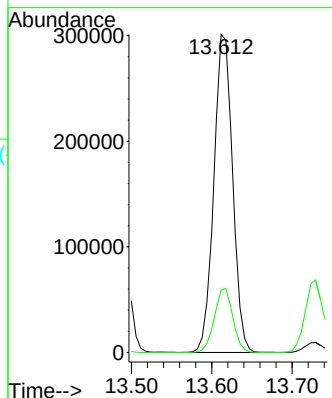
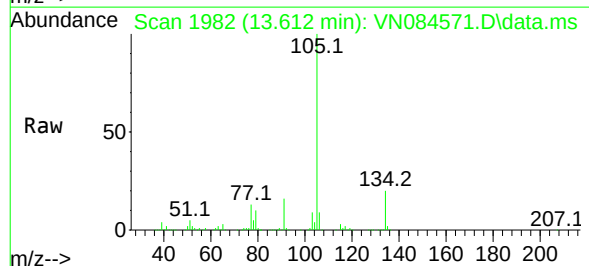
134 19.8 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#86

p-Isopropyltoluene

Concen: 54.770 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

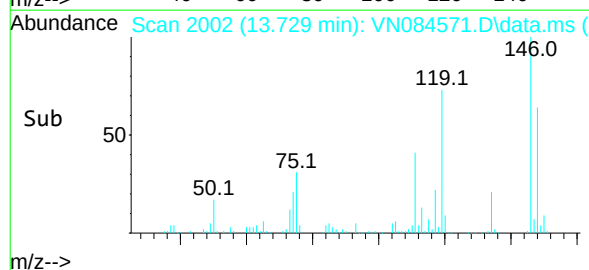
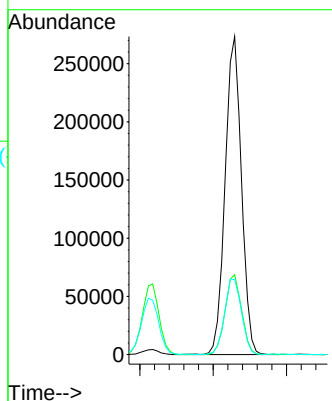
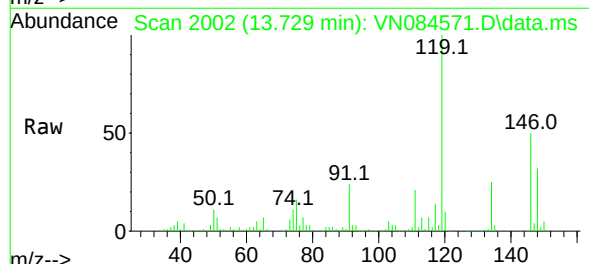
Tgt Ion:119 Resp: 421834

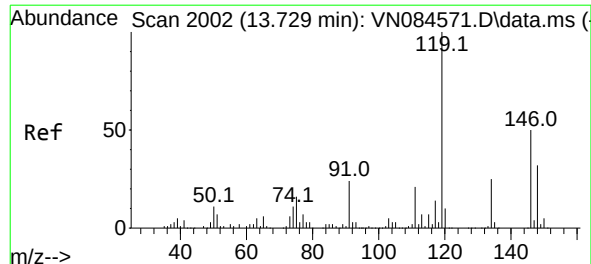
Ion Ratio Lower Upper

119 100

134 25.5 12.6 37.8

91 24.7 12.4 37.2





#87

1,3-Dichlorobenzene

Concen: 45.366 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

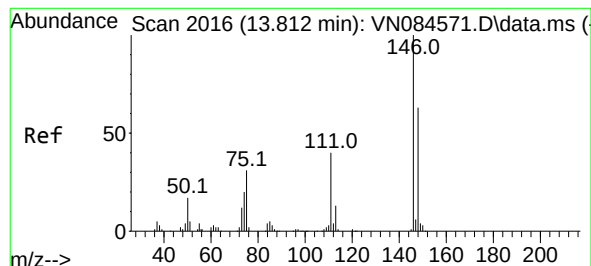
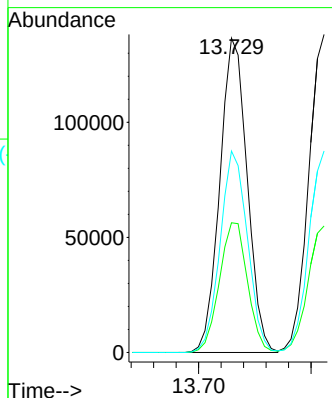
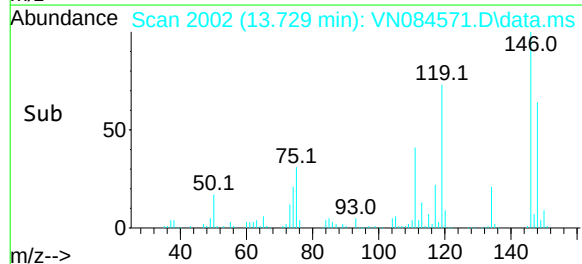
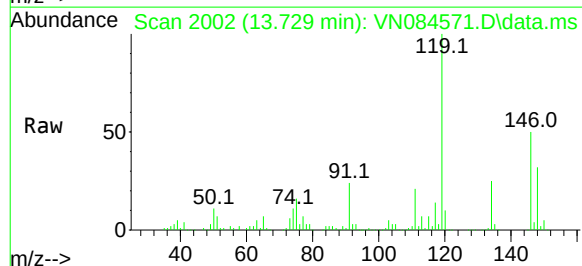
VSTDICCC050

Tgt Ion:	146	Resp:	230686
Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.8	65.3
148	64.1	31.9	95.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#88

1,4-Dichlorobenzene

Concen: 49.658 ug/l

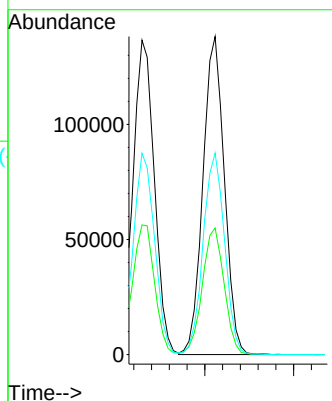
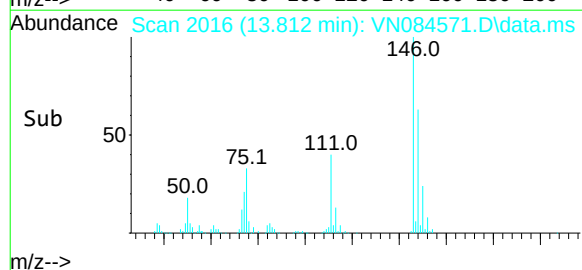
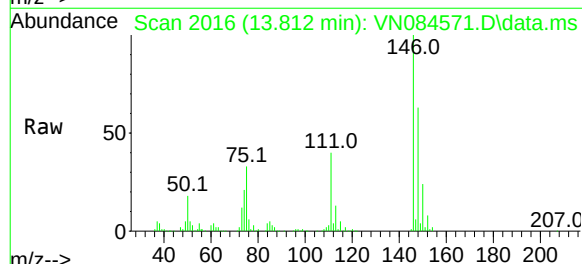
RT: 13.812 min Scan# 2016

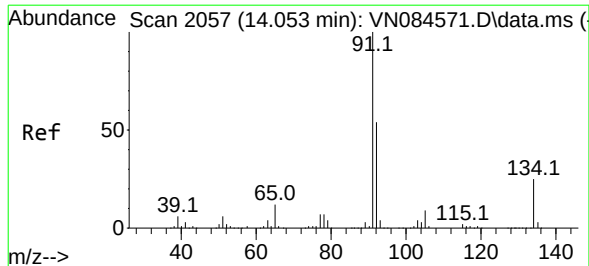
Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Tgt Ion:	146	Resp:	231568
Ion	Ratio	Lower	Upper
146	100		
111	40.2	21.2	63.6
148	63.6	31.9	95.9





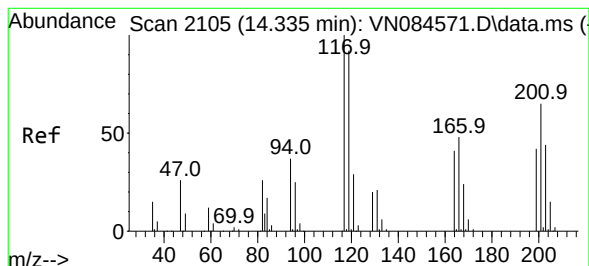
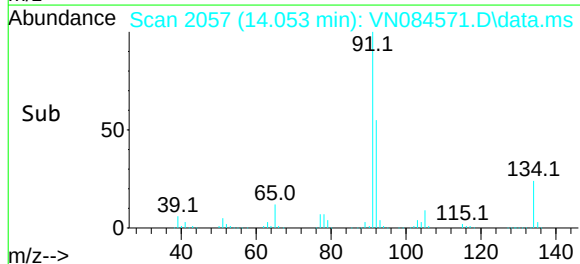
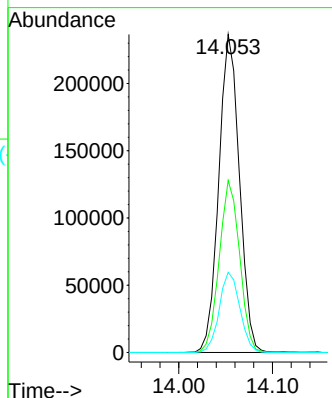
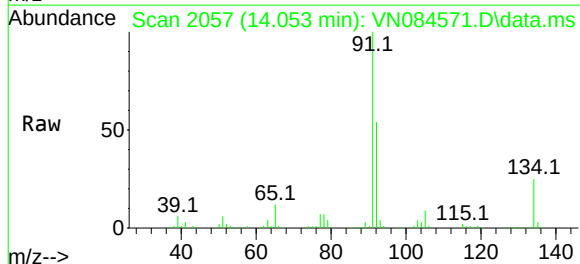
#89
n-Butylbenzene
Concen: 50.276 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN084571.D
Acq: 30 Oct 2024 12:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 362215
Ion Ratio Lower Upper
91 100
92 53.5 26.6 79.7
134 25.2 12.3 36.9

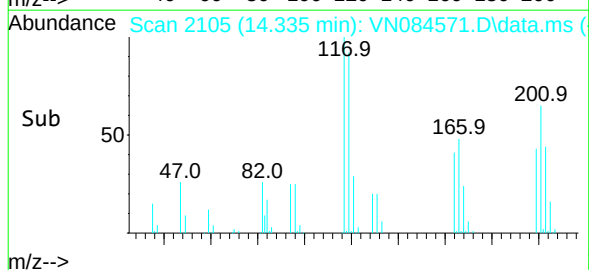
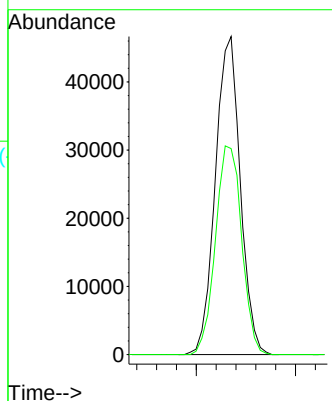
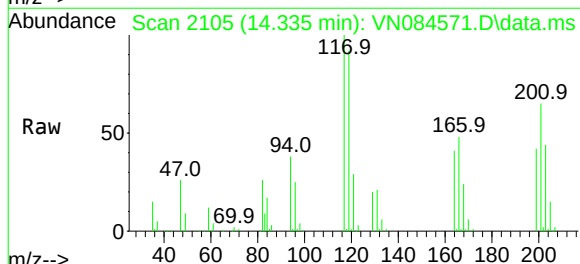
Manual Integrations
APPROVED

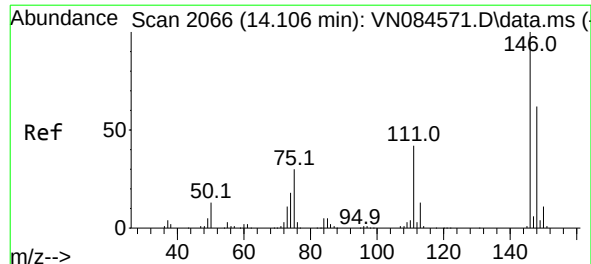
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#90
Hexachloroethane
Concen: 47.459 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.006 min
Lab File: VN084571.D
Acq: 30 Oct 2024 12:09

Tgt Ion:117 Resp: 81515
Ion Ratio Lower Upper
117 100
201 68.9 34.4 103.2





#91

1,2-Dichlorobenzene

Concen: 45.796 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

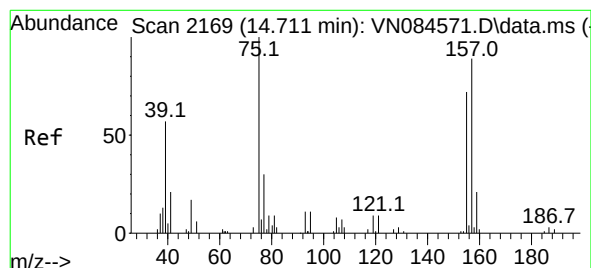
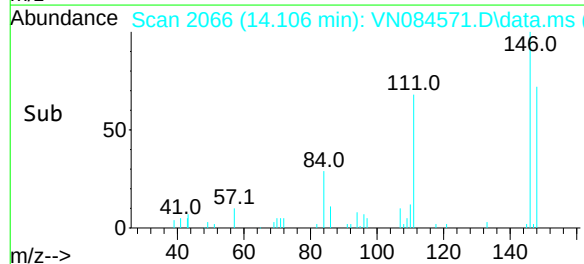
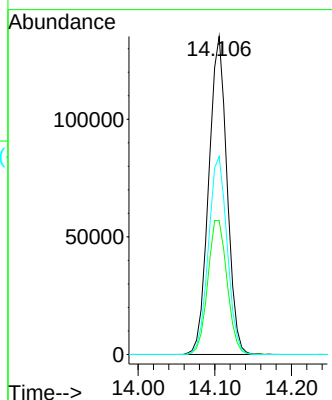
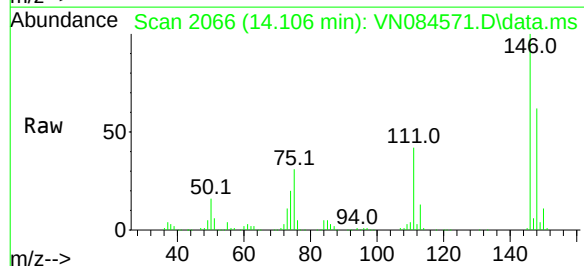
VSTDICCC050

Tgt Ion:	146	Resp:	223772
Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.0	66.0
148	63.7	32.1	96.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 45.754 ug/l

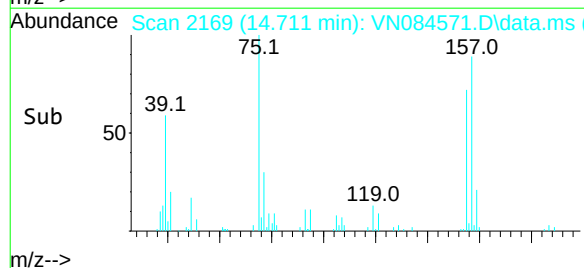
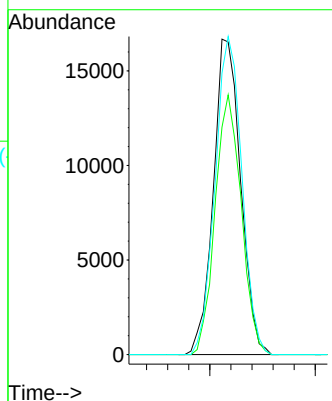
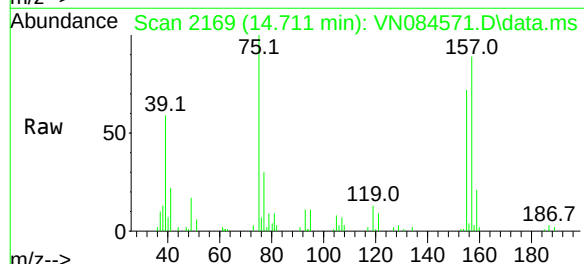
RT: 14.711 min Scan# 2169

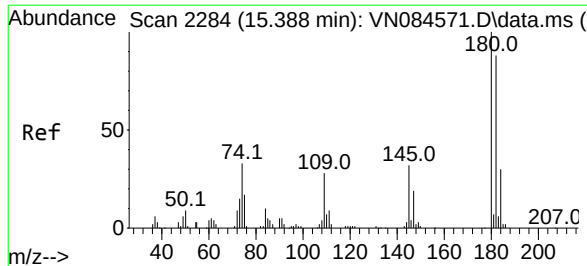
Delta R.T. -0.006 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Tgt Ion:	75	Resp:	29987
Ion	Ratio	Lower	Upper
75	100		
155	79.0	38.1	114.5
157	99.0	49.6	149.0





#93

1,2,4-Trichlorobenzene

Concen: 44.711 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. -0.000 min

Lab File: VN084571.D

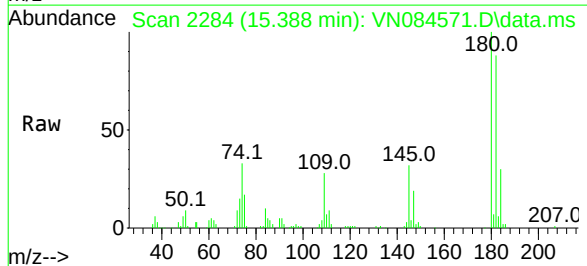
Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

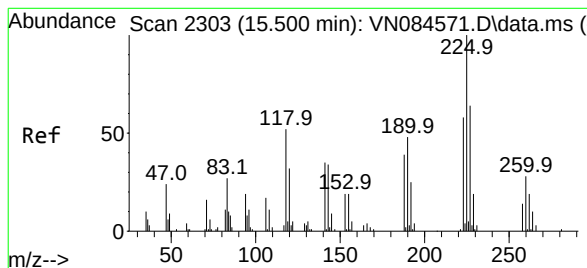
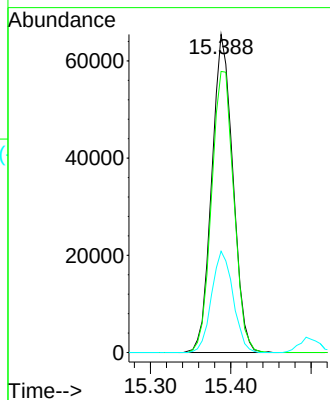
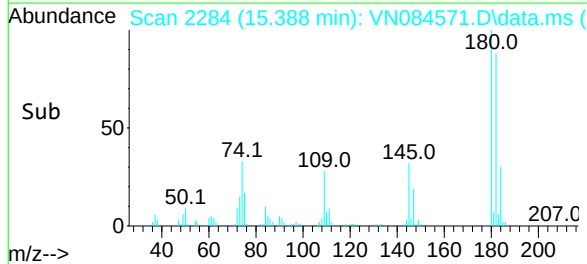


Tgt Ion:	180	Resp:	119579
Ion Ratio	Lower	Upper	
180	100		
182	92.7	47.0	141.0
145	32.4	16.4	49.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#94

Hexachlorobutadiene

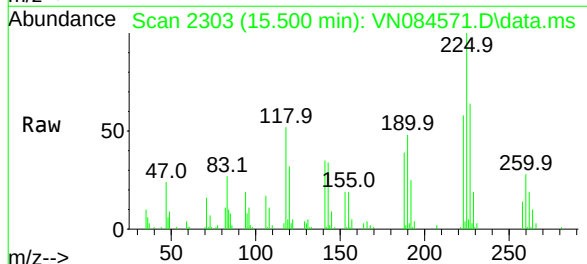
Concen: 43.451 ug/l

RT: 15.500 min Scan# 2303

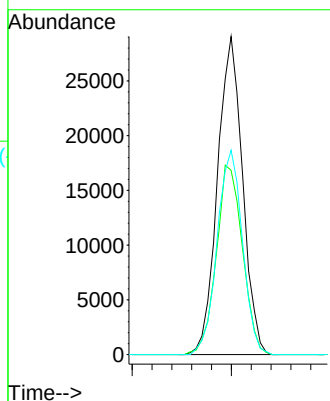
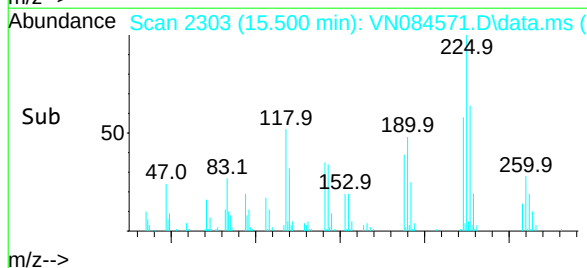
Delta R.T. -0.000 min

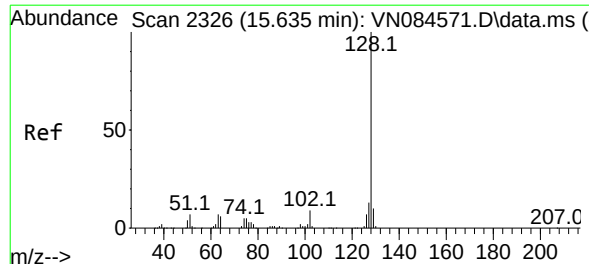
Lab File: VN084571.D

Acq: 30 Oct 2024 12:09



Tgt Ion:	225	Resp:	51033
Ion Ratio	Lower	Upper	
225	100		
223	62.0	32.4	97.2
227	64.9	32.4	97.0





#95

Naphthalene

Concen: 48.037 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Instrument :

MSVOA_N

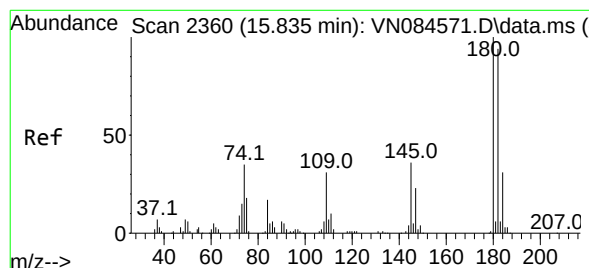
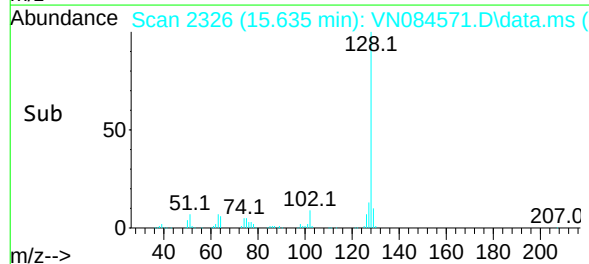
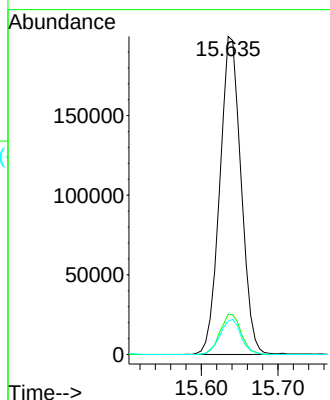
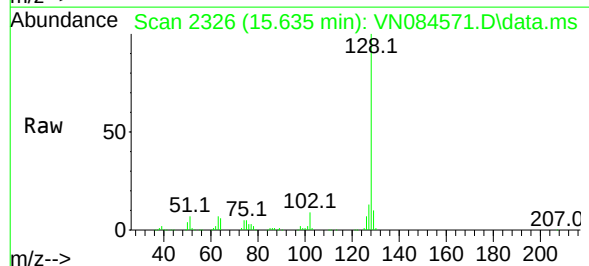
ClientSampleId :

VSTDICCC050

Tgt Ion:	128	Resp:	384553
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.5	15.7
129	10.9	8.7	13.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#96

1,2,3-Trichlorobenzene

Concen: 44.812 ug/l

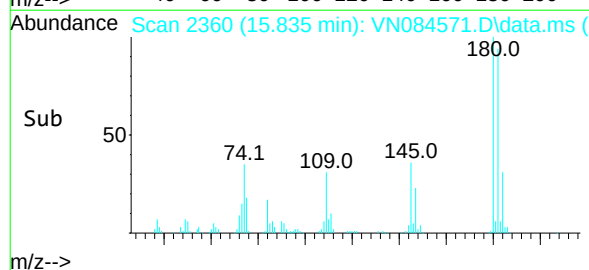
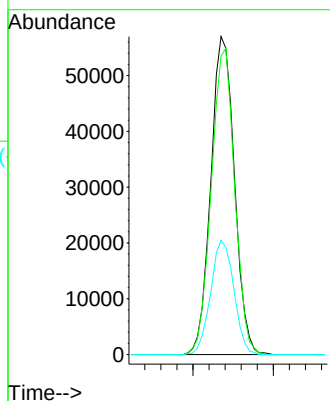
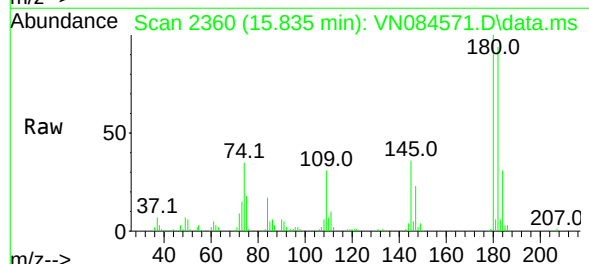
RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN084571.D

Acq: 30 Oct 2024 12:09

Tgt Ion:	180	Resp:	116341
Ion	Ratio	Lower	Upper
180	100		
182	95.2	48.2	144.6
145	35.3	17.3	51.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084572.D
 Acq On : 30 Oct 2024 12:33
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:18:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	187576	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	319890	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	275857	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130374	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	53102	19.600	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	39.200%#
35) Dibromofluoromethane	8.165	113	41686	19.252	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	38.500%#
50) Toluene-d8	10.565	98	155563	19.504	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	39.000%#
62) 4-Bromofluorobenzene	12.847	95	57622	19.330	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	38.660%#

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	41443	19.219	ug/l	99
3) Chloromethane	2.359	50	54414	19.993	ug/l	97
4) Vinyl Chloride	2.512	62	46710	20.140	ug/l	93
5) Bromomethane	2.901	94	23244	18.916	ug/l	100
6) Chloroethane	3.042	64	30992	20.772	ug/l	94
7) Trichlorofluoromethane	3.442	101	76339	19.982	ug/l	96
8) Diethyl Ether	3.948	74	26904	19.963	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.342	101	42830	19.840	ug/l	99
10) Methyl Iodide	4.565	142	57315	19.865	ug/l	96
11) Tert butyl alcohol	5.559	59	33927	94.871	ug/l	99
12) 1,1-Dichloroethene	4.318	96	41980	19.653	ug/l	89
13) Acrolein	4.171	56	38007	106.582	ug/l	96
14) Allyl chloride	5.006	41	70420	20.328	ug/l	92
15) Acrylonitrile	5.718	53	105912	102.304	ug/l	97
16) Acetone	4.430	43	79971	100.481	ug/l	99
17) Carbon Disulfide	4.689	76	127521	19.385	ug/l	98
18) Methyl Acetate	5.024	43	71604	22.882	ug/l	98
19) Methyl tert-butyl Ether	5.789	73	135170	20.645	ug/l	100
20) Methylene Chloride	5.271	84	47467	19.921	ug/l	88
21) trans-1,2-Dichloroethene	5.771	96	44697	20.378	ug/l	93
22) Diisopropyl ether	6.671	45	144115	20.937	ug/l	97
23) Vinyl Acetate	6.594	43	490034	103.232	ug/l	100
24) 1,1-Dichloroethane	6.559	63	83555	20.218	ug/l	97
25) 2-Butanone	7.483	43	130541	103.281	ug/l	99
26) 2,2-Dichloropropane	7.483	77	73066	20.313	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	52279	20.412	ug/l	97
28) Bromochloromethane	7.806	49	29146	17.702	ug/l	91
29) Tetrahydrofuran	7.836	42	86837	103.560	ug/l	97
30) Chloroform	7.959	83	85675	20.368	ug/l	100
31) Cyclohexane	8.247	56	71698	19.169	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	78458	20.493	ug/l	97
36) 1,1-Dichloropropene	8.371	75	60208	20.050	ug/l	99
37) Ethyl Acetate	7.559	43	54942	20.165	ug/l	97
38) Carbon Tetrachloride	8.359	117	68076	20.282	ug/l	98
39) Methylcyclohexane	9.600	83	63305	20.722	ug/l	93
40) Benzene	8.600	78	193129	20.026	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084572.D
 Acq On : 30 Oct 2024 12:33
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:18:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	30596	20.882	ug/l	97
42) 1,2-Dichloroethane	8.665	62	63026	20.180	ug/l	99
43) Isopropyl Acetate	8.688	43	104951	20.277	ug/l	98
44) Trichloroethene	9.347	130	44176	19.862	ug/l	99
45) 1,2-Dichloropropane	9.618	63	45764	20.229	ug/l	93
46) Dibromomethane	9.706	93	32857	20.583	ug/l	99
47) Bromodichloromethane	9.888	83	67288	19.997	ug/l #	98
48) Methyl methacrylate	9.682	41	43398	20.466	ug/l	97
49) 1,4-Dioxane	9.700	88	15417	410.291	ug/l #	79
51) 4-Methyl-2-Pentanone	10.447	43	266010	102.417	ug/l	100
52) Toluene	10.629	92	117530	20.838	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	68847	19.766	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	74498	20.208	ug/l	95
55) 1,1,2-Trichloroethane	11.012	97	42791	20.141	ug/l	95
56) Ethyl methacrylate	10.871	69	63347	20.613	ug/l	96
57) 1,3-Dichloropropane	11.159	76	74082	20.317	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	146372	101.786	ug/l	98
59) 2-Hexanone	11.194	43	192335	101.735	ug/l	99
60) Dibromochloromethane	11.359	129	50039	20.665	ug/l	99
61) 1,2-Dibromoethane	11.465	107	43666	20.070	ug/l	100
64) Tetrachloroethene	11.106	164	36798	20.054	ug/l	92
65) Chlorobenzene	11.888	112	126753	20.539	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.959	131	43201	20.125	ug/l	99
67) Ethyl Benzene	11.965	91	212737	20.651	ug/l	99
68) m/p-Xylenes	12.071	106	162754	41.732	ug/l	99
69) o-Xylene	12.400	106	77396	21.214	ug/l	99
70) Styrene	12.412	104	133059	20.907	ug/l	96
71) Bromoform	12.576	173	32901	20.369	ug/l #	99
73) Isopropylbenzene	12.694	105	193023	21.127	ug/l	100
74) N-ethyl acetate	12.494	43	80939	20.815	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	60645	19.886	ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	49947m	19.414	ug/l	
77) Bromobenzene	12.976	156	48017	19.550	ug/l	97
78) n-propylbenzene	13.035	91	225085	21.024	ug/l	99
79) 2-Chlorotoluene	13.123	91	148533	21.233	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	161619	21.343	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	22047	20.070	ug/l #	85
82) 4-Chlorotoluene	13.218	91	147989	20.102	ug/l	100
83) tert-Butylbenzene	13.435	119	138079	22.033	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	170246	21.783	ug/l	99
85) sec-Butylbenzene	13.618	105	188158	21.255	ug/l	100
86) p-Isopropyltoluene	13.729	119	156598	21.569	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	92310	19.258	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	92940	20.458	ug/l	99
89) n-Butylbenzene	14.053	91	136771	20.139	ug/l	99
90) Hexachloroethane	14.329	117	32199	19.887	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	91138	19.787	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	11962	19.362	ug/l	96
93) 1,2,4-Trichlorobenzene	15.394	180	46698	18.523	ug/l	96
94) Hexachlorobutadiene	15.500	225	22216	20.066	ug/l	96
95) Naphthalene	15.635	128	153972	20.404	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	49699	20.308	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084572.D
Acq On : 30 Oct 2024 12:33
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

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

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

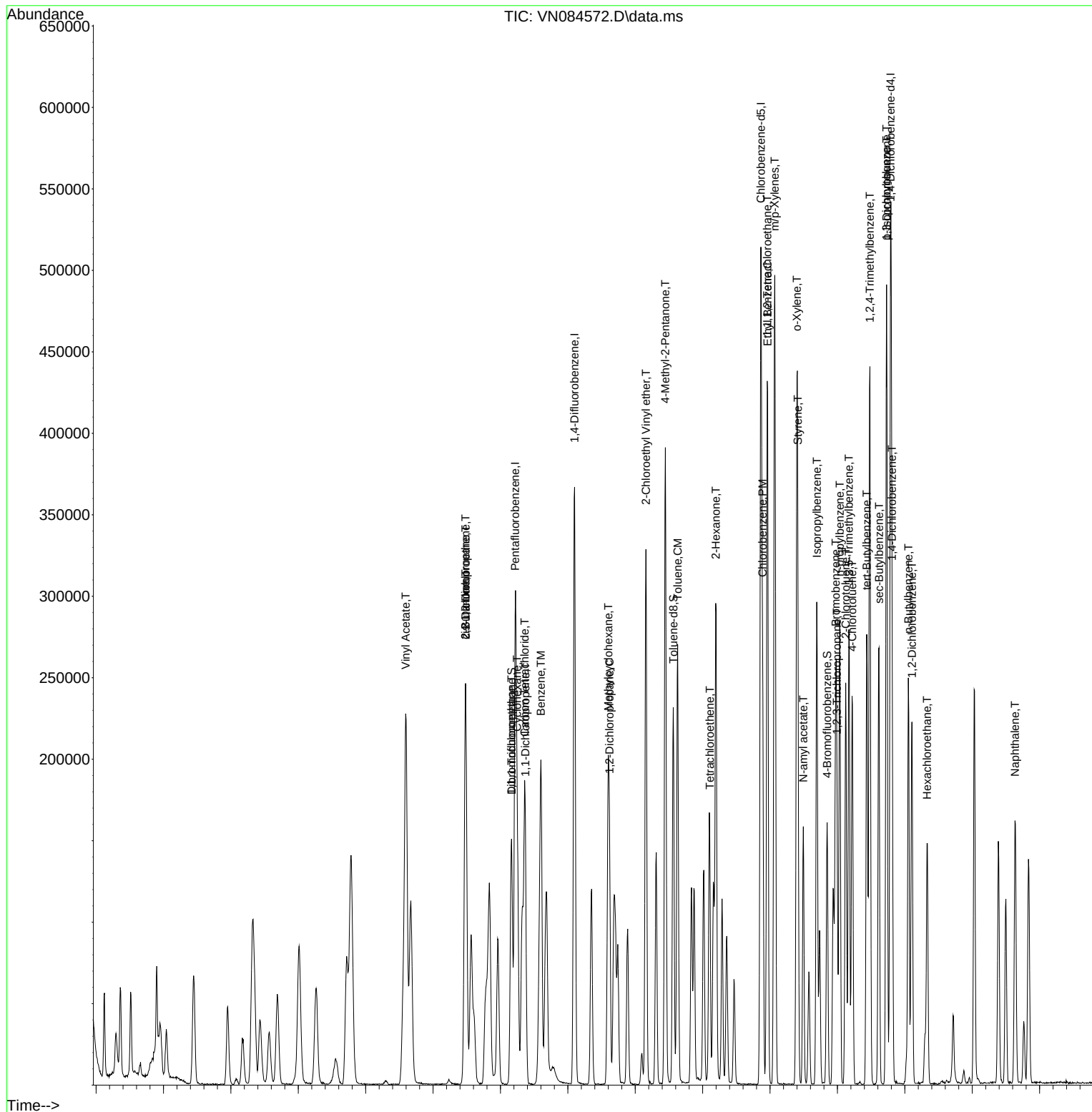
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\  
Data File : VN084572.D  
Acq On    : 30 Oct 2024 12:33  
Operator  : JC\MD  
Sample    : VSTDICC020  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 1 Sample Multiplier: 1
```

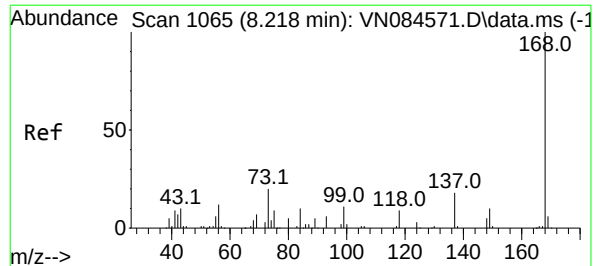
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

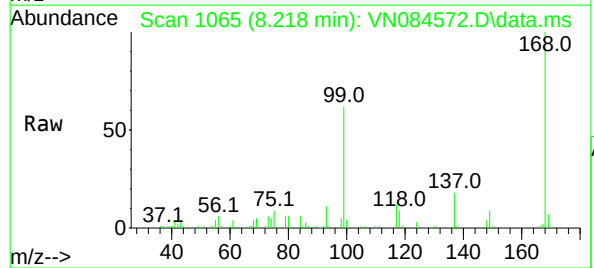
Quant Time: Oct 31 18:19:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN084572.D
Acq: 30 Oct 2024 12:33

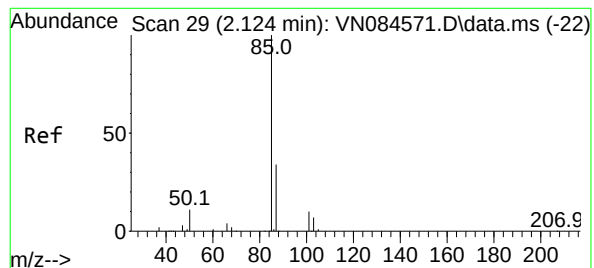
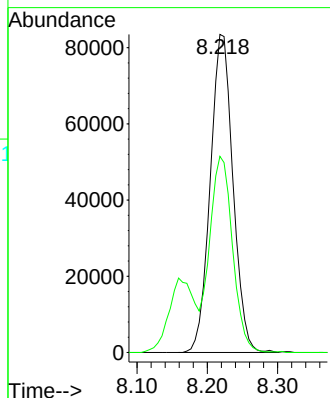
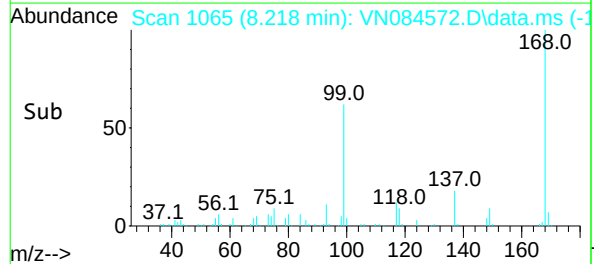
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 168 Resp: 187576
Ion Ratio Lower Upper
168 100
99 61.5 54.2 81.2

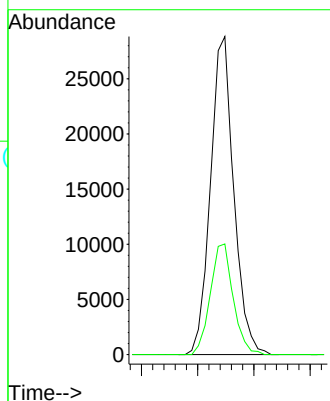
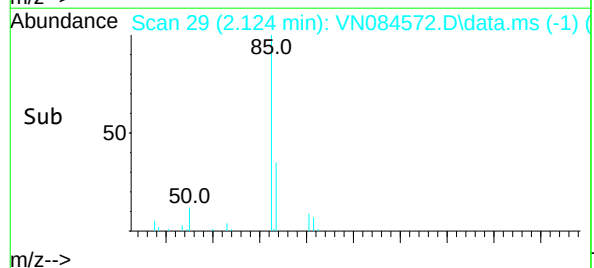
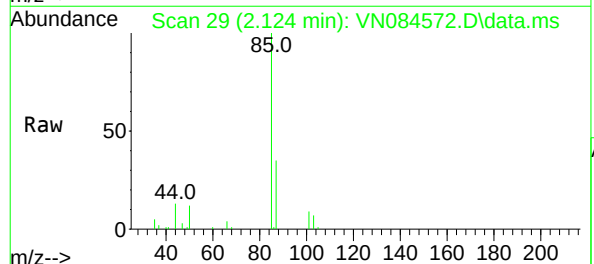
Manual Integrations
APPROVED

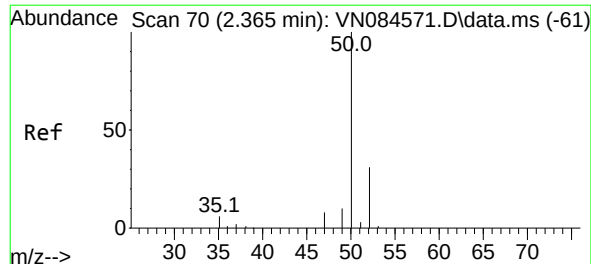
Reviewed By : Semsettin Yesilyurt 11/04/2024
Supervised By : Mahesh Dadoda 11/04/2024



#2
Dichlorodifluoromethane
Concen: 19.219 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN084572.D
Acq: 30 Oct 2024 12:33

Tgt Ion: 85 Resp: 41443
Ion Ratio Lower Upper
85 100
87 34.8 17.6 52.9





#3

Chloromethane

Concen: 19.993 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 50 Resp: 54414

Ion Ratio Lower Upper

50 100

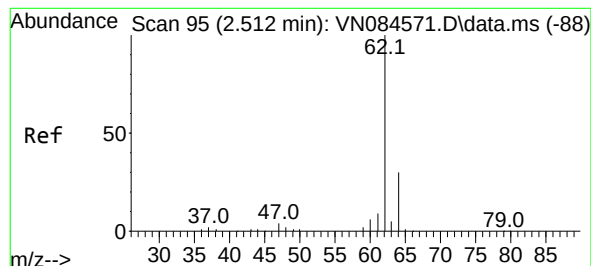
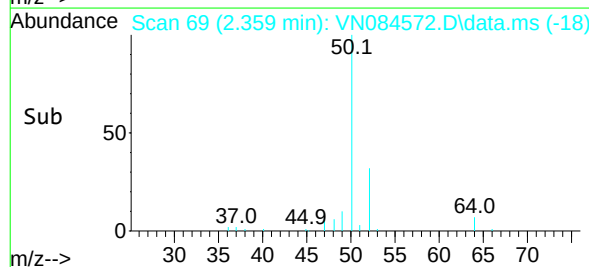
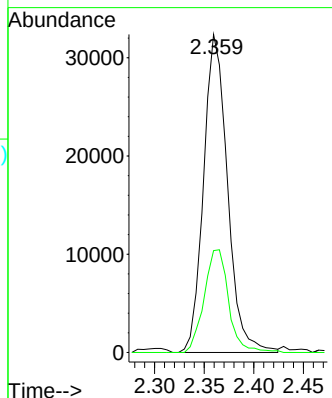
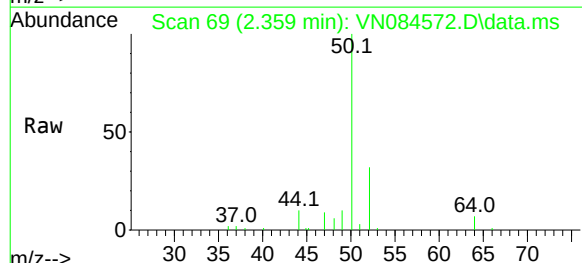
52 32.0 26.8 40.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#4

Vinyl Chloride

Concen: 20.140 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.006 min

Lab File: VN084572.D

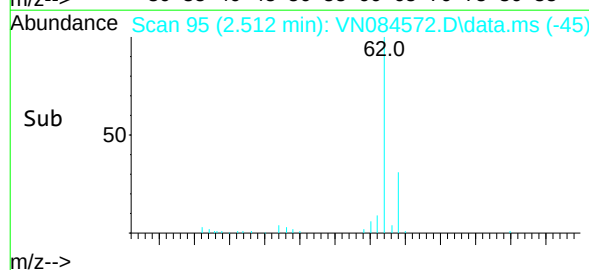
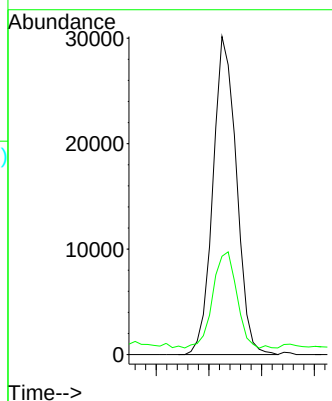
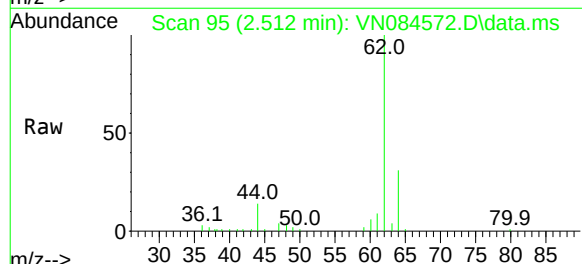
Acq: 30 Oct 2024 12:33

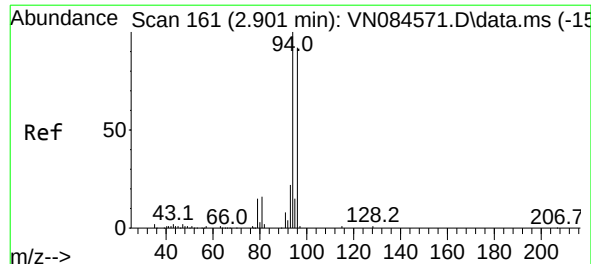
Tgt Ion: 62 Resp: 46710

Ion Ratio Lower Upper

62 100

64 28.8 26.2 39.4





#5

Bromomethane

Concen: 18.916 ug/l

RT: 2.901 min Scan# 161

Delta R.T. -0.052 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 94 Resp: 23244

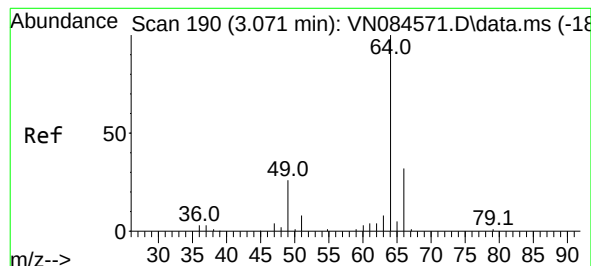
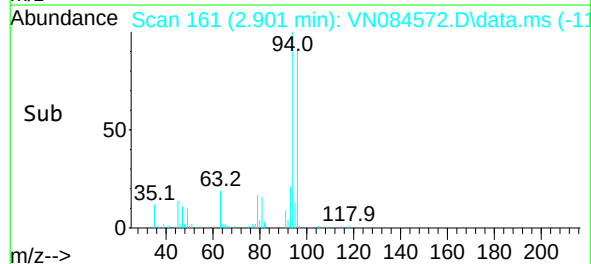
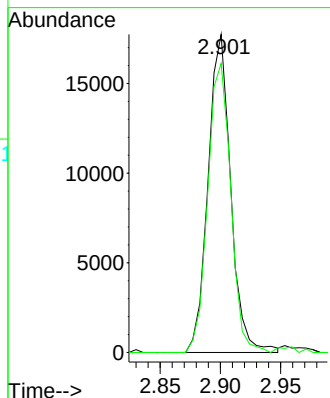
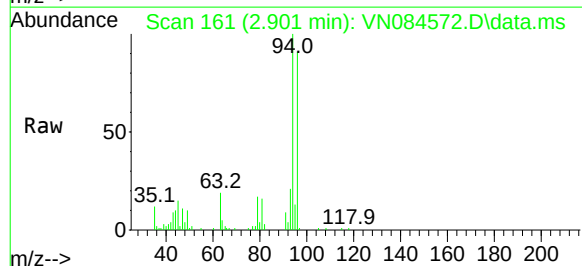
Ion Ratio Lower Upper

94 100

96 90.9 72.9 109.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#6

Chloroethane

Concen: 20.772 ug/l

RT: 3.042 min Scan# 185

Delta R.T. -0.076 min

Lab File: VN084572.D

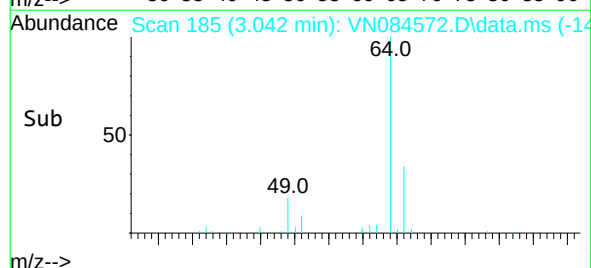
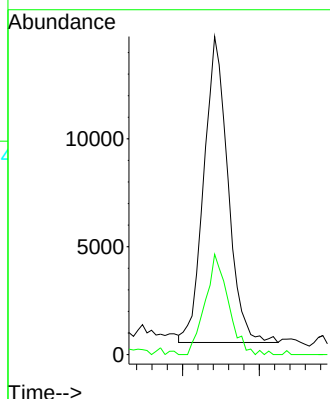
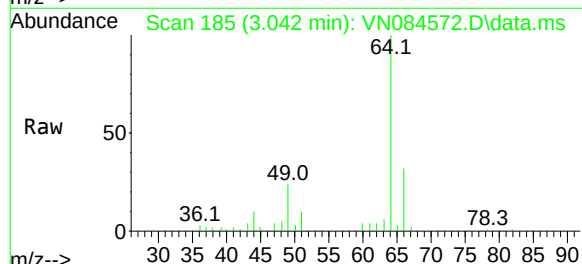
Acq: 30 Oct 2024 12:33

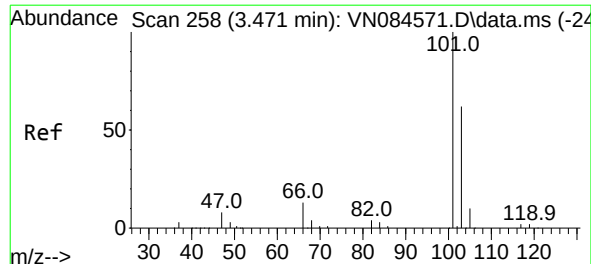
Tgt Ion: 64 Resp: 30992

Ion Ratio Lower Upper

64 100

66 32.8 23.5 35.3





#7

Trichlorofluoromethane

Concen: 19.982 ug/l

RT: 3.442 min Scan# 258

Delta R.T. -0.053 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:101 Resp: 76339

Ion Ratio Lower Upper

101 100

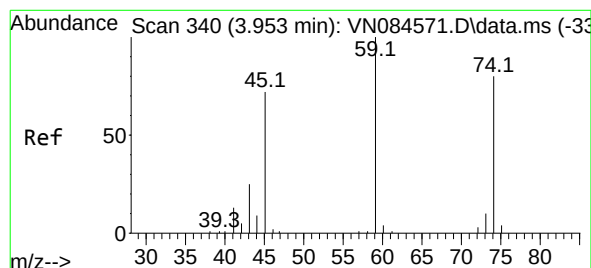
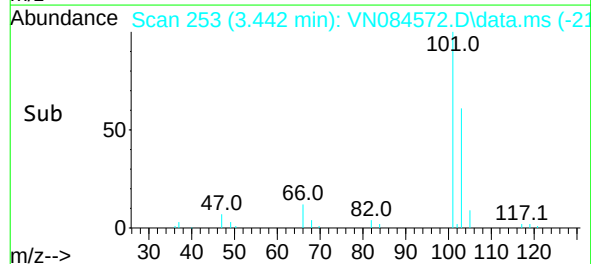
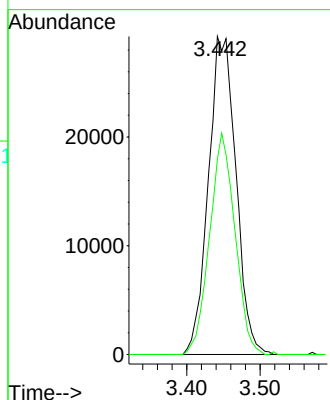
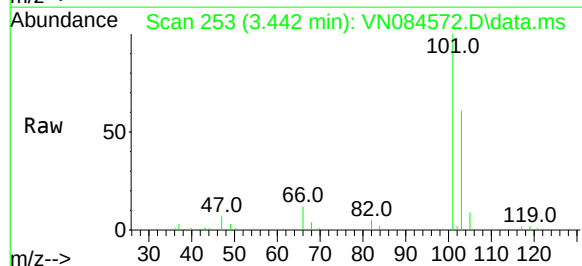
103 61.4 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#8

Diethyl Ether

Concen: 19.963 ug/l

RT: 3.948 min Scan# 339

Delta R.T. -0.011 min

Lab File: VN084572.D

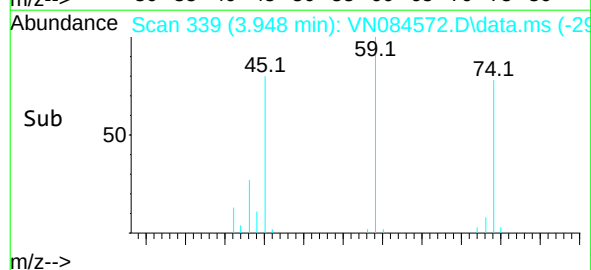
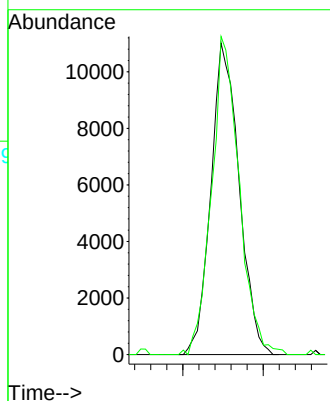
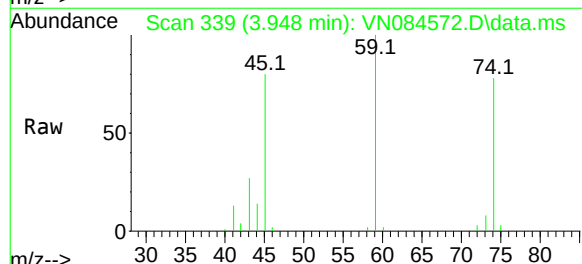
Acq: 30 Oct 2024 12:33

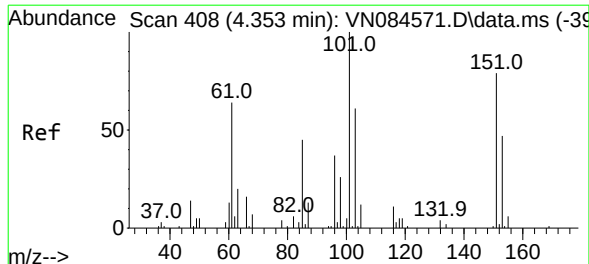
Tgt Ion: 74 Resp: 26904

Ion Ratio Lower Upper

74 100

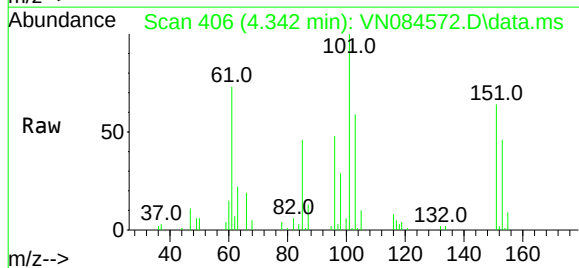
45 99.7 47.7 143.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.840 ug/l
RT: 4.342 min Scan# 408
Delta R.T. -0.029 min
Lab File: VN084572.D
Acq: 30 Oct 2024 12:33

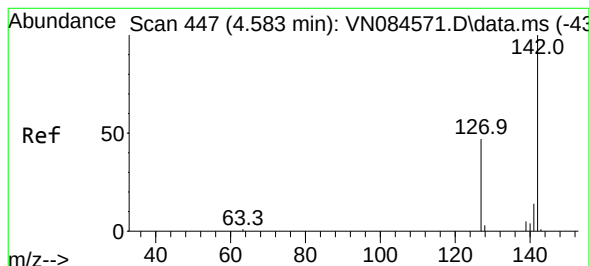
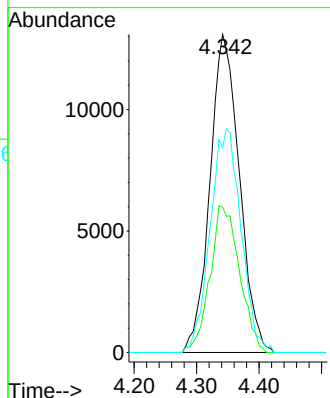
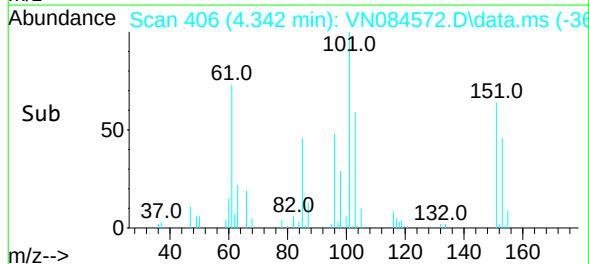
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:101 Resp: 42836
Ion Ratio Lower Upper
101 100
85 46.4 36.2 54.4
151 73.6 59.3 88.9

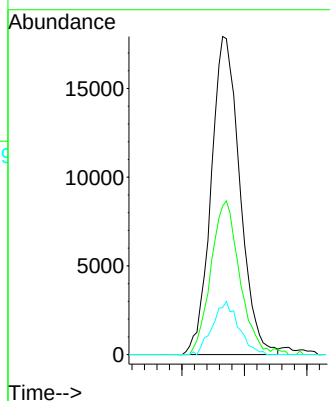
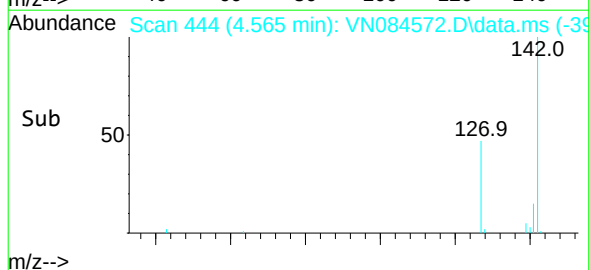
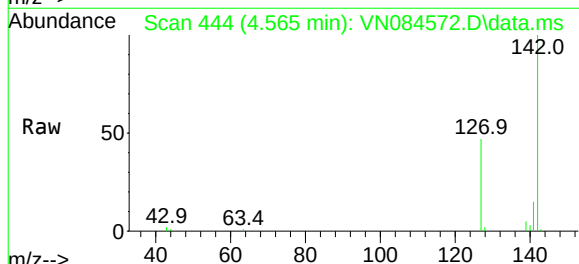
Manual Integrations
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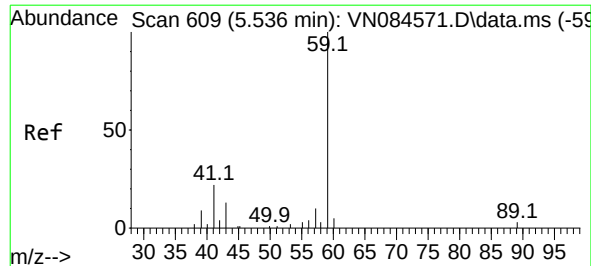
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#10
Methyl Iodide
Concen: 19.865 ug/l
RT: 4.565 min Scan# 444
Delta R.T. -0.029 min
Lab File: VN084572.D
Acq: 30 Oct 2024 12:33

Tgt Ion:142 Resp: 57315
Ion Ratio Lower Upper
142 100
127 46.7 35.3 52.9
141 14.8 11.0 16.6





#11

Tert butyl alcohol

Concen: 94.871 ug/l

RT: 5.559 min Scan# 61

Delta R.T. 0.035 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 59 Resp: 33927

Ion Ratio Lower Upper

59 100

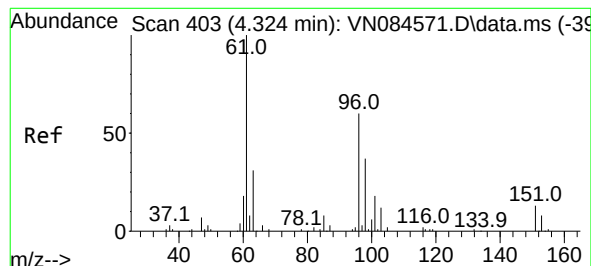
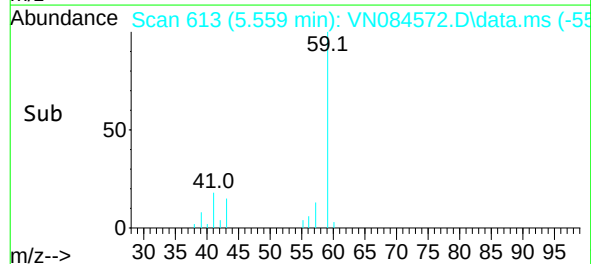
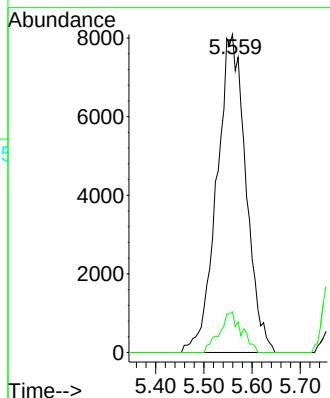
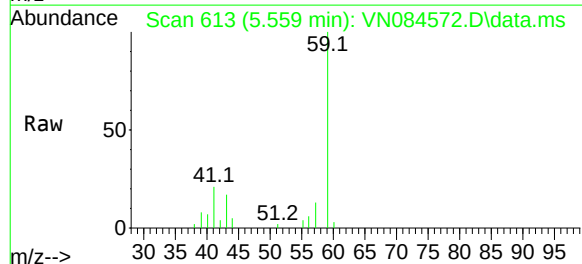
57 9.8 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#12

1,1-Dichloroethene

Concen: 19.653 ug/l

RT: 4.318 min Scan# 402

Delta R.T. -0.023 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

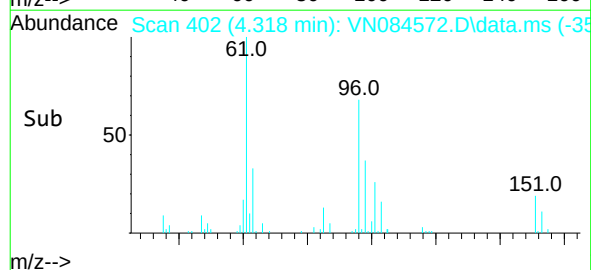
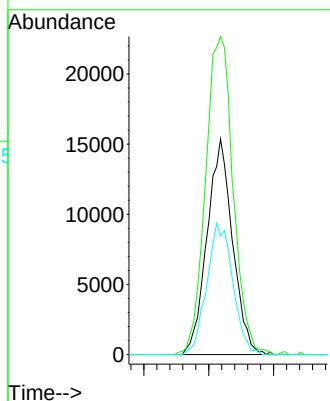
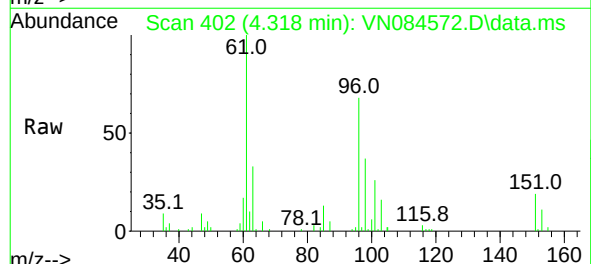
Tgt Ion: 96 Resp: 41980

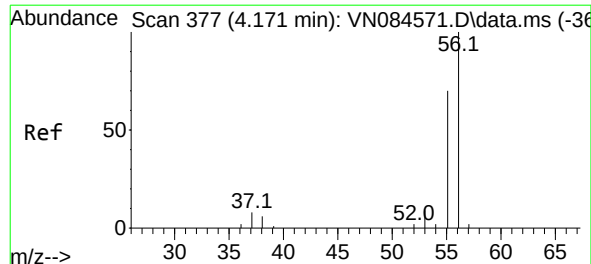
Ion Ratio Lower Upper

96 100

61 147.4 128.6 192.8

98 55.0 51.7 77.5





#13

Acrolein

Concen: 106.582 ug/l

RT: 4.171 min Scan# 37

Delta R.T. -0.006 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 38007

Ion Ratio Lower Upper

56 100

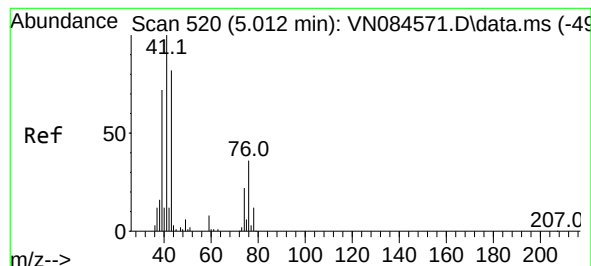
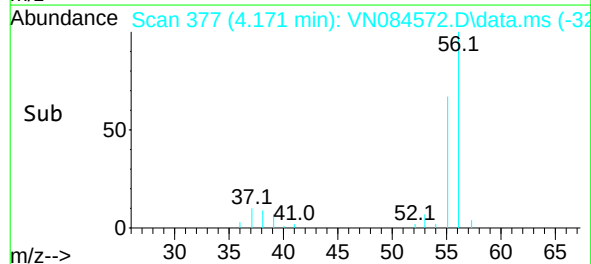
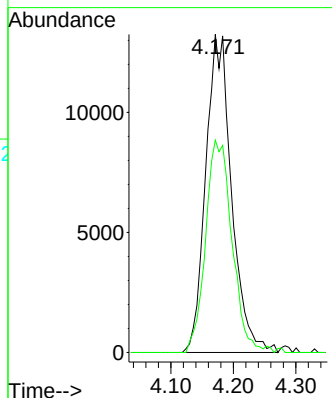
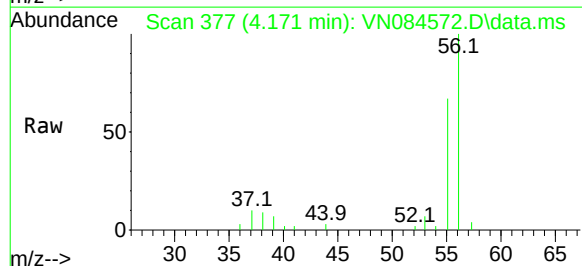
55 68.4 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#14

Allyl chloride

Concen: 20.328 ug/l

RT: 5.006 min Scan# 519

Delta R.T. -0.018 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

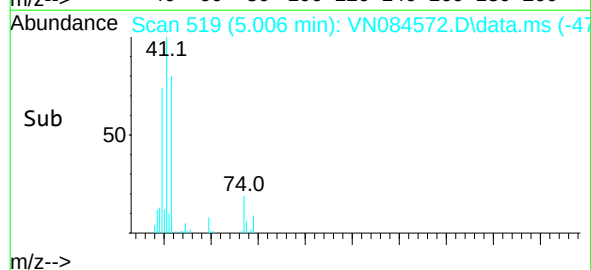
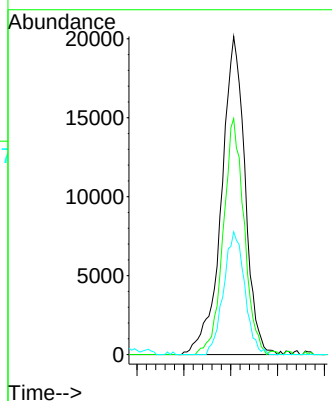
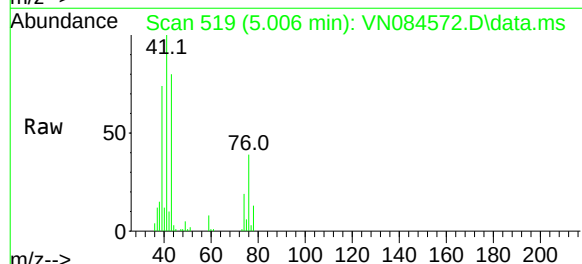
Tgt Ion: 41 Resp: 70420

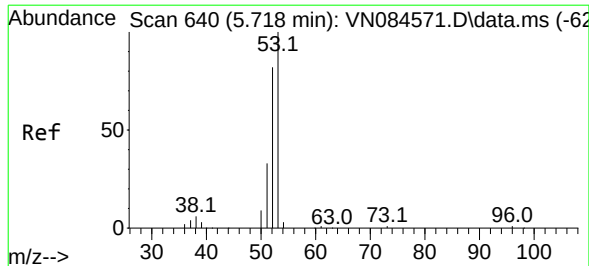
Ion Ratio Lower Upper

41 100

39 65.3 59.0 88.6

76 34.4 29.8 44.6





#15

Acrylonitrile

Concen: 102.304 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN084572.D

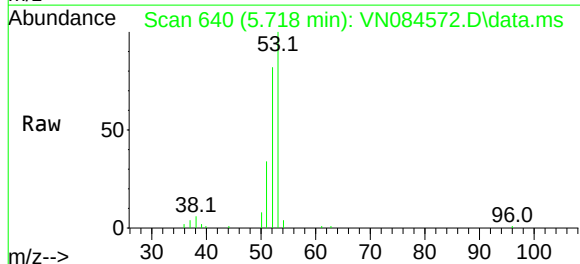
Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

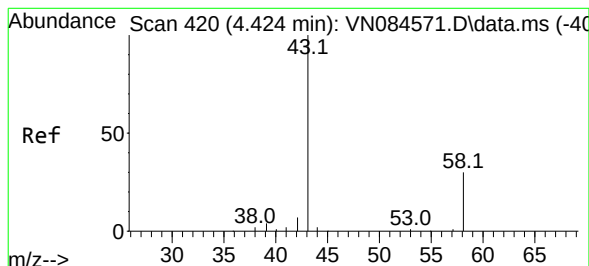
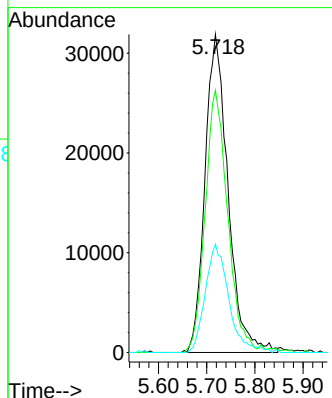
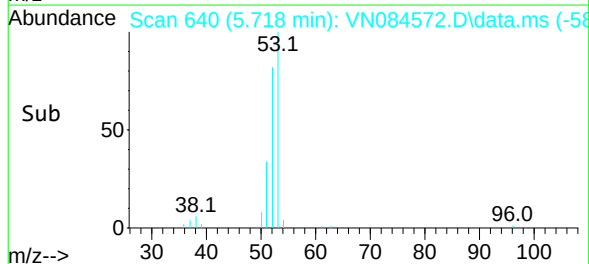
VSTDICC020



Tgt Ion:	53	Resp:	105912
Ion	Ratio	Lower	Upper
53	100		
52	80.3	66.2	99.4
51	34.7	28.8	43.2

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#16

Acetone

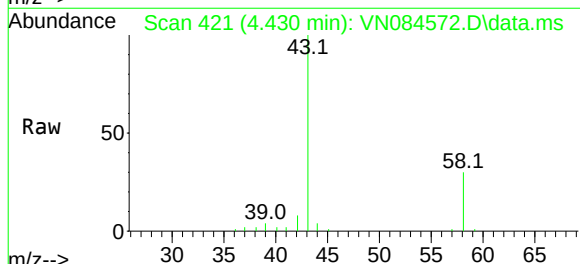
Concen: 100.481 ug/l

RT: 4.430 min Scan# 421

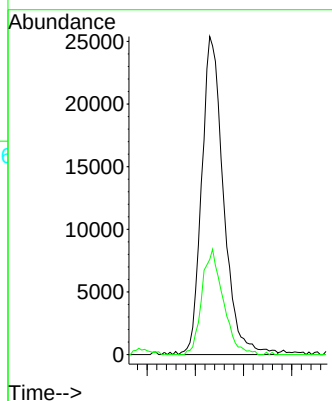
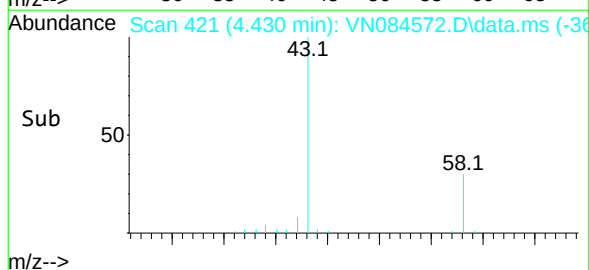
Delta R.T. 0.006 min

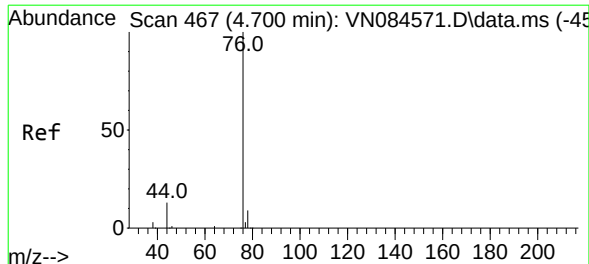
Lab File: VN084572.D

Acq: 30 Oct 2024 12:33



Tgt Ion:	43	Resp:	79971
Ion	Ratio	Lower	Upper
43	100		
58	29.9	24.4	36.6





#17

Carbon Disulfide

Concen: 19.385 ug/l

RT: 4.689 min Scan# 46

Delta R.T. -0.023 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 76 Resp: 127521

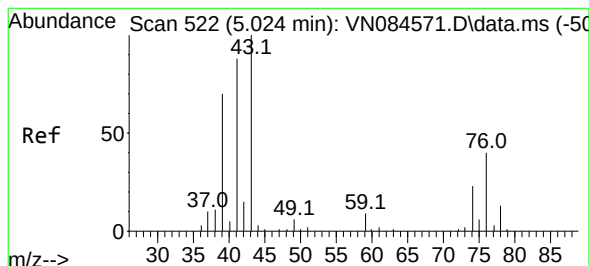
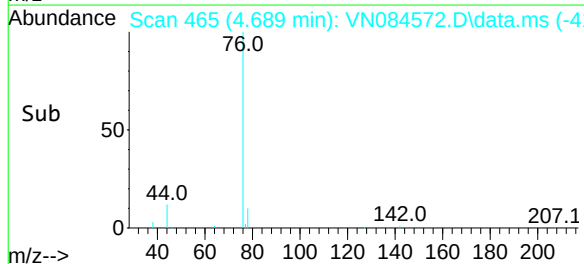
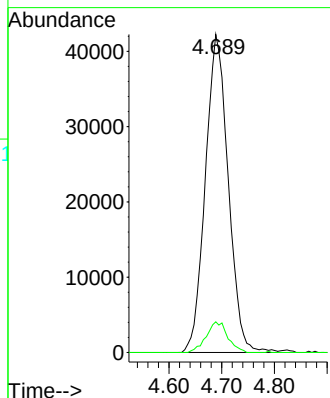
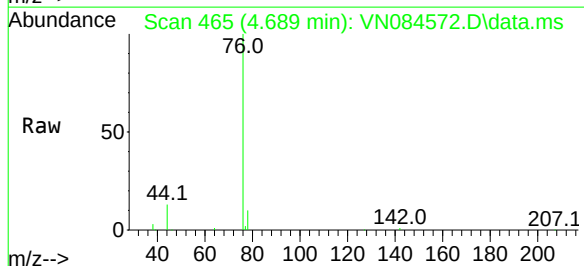
Ion Ratio Lower Upper

76 100

78 9.7 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#18

Methyl Acetate

Concen: 22.882 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN084572.D

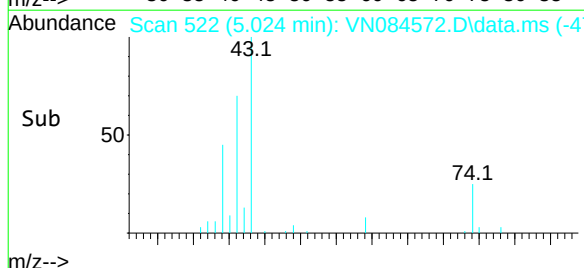
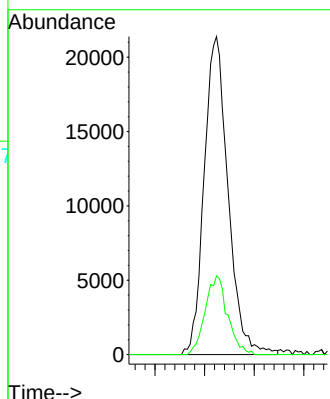
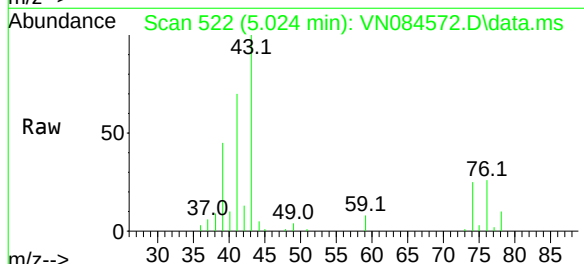
Acq: 30 Oct 2024 12:33

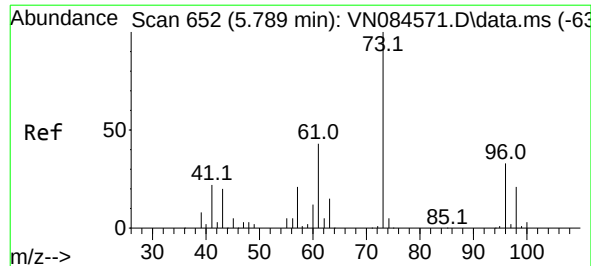
Tgt Ion: 43 Resp: 71604

Ion Ratio Lower Upper

43 100

74 23.1 19.2 28.8





#19

Methyl tert-butyl Ether

Concen: 20.645 ug/l

RT: 5.789 min Scan# 65

Delta R.T. -0.006 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 73 Resp: 135176

Ion Ratio Lower Upper

73 100

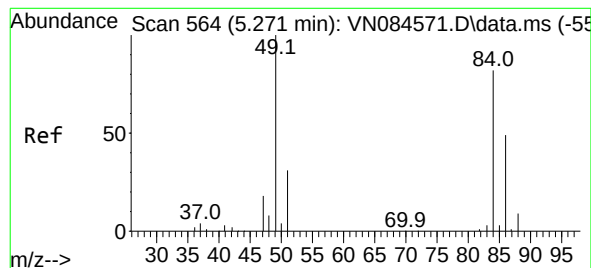
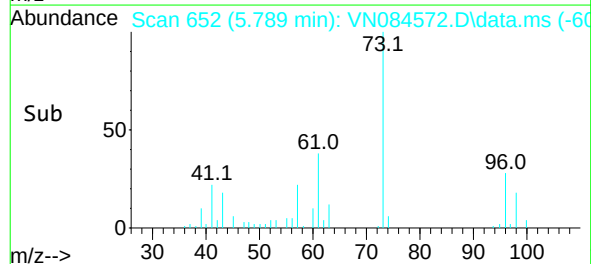
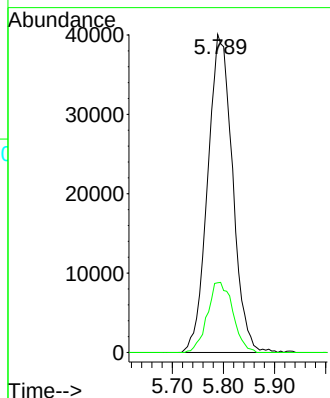
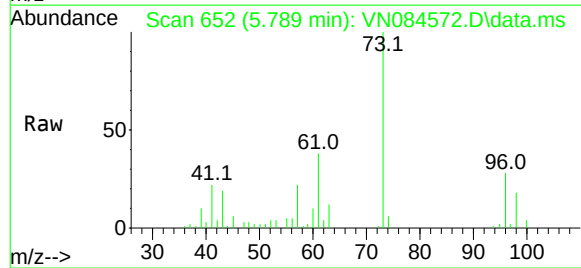
57 21.9 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#20

Methylene Chloride

Concen: 19.921 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.006 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Tgt Ion: 84 Resp: 47467

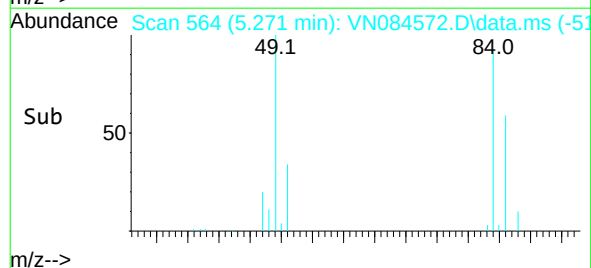
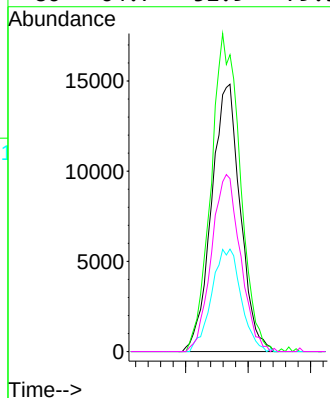
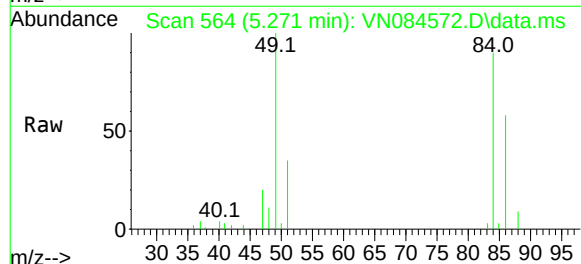
Ion Ratio Lower Upper

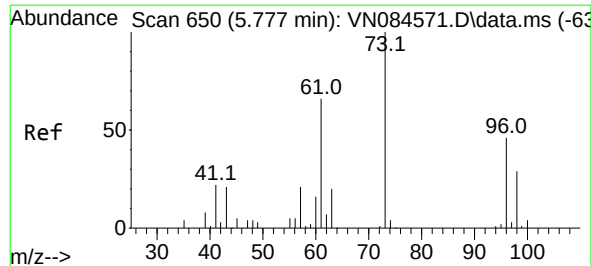
84 100

49 111.0 107.2 160.8

51 38.3 31.8 47.8

86 64.7 52.9 79.3





#21

trans-1,2-Dichloroethene

Concen: 20.378 ug/l

RT: 5.771 min Scan# 649

Delta R.T. -0.018 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 96 Resp: 44697

Ion Ratio Lower Upper

96 100

61 124.8 108.4 162.6

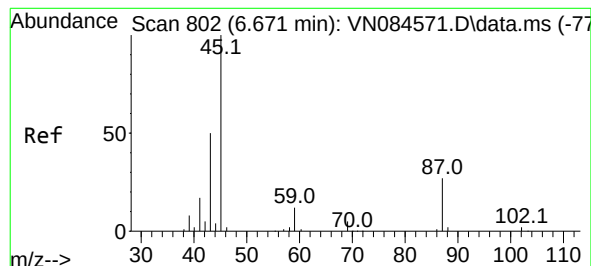
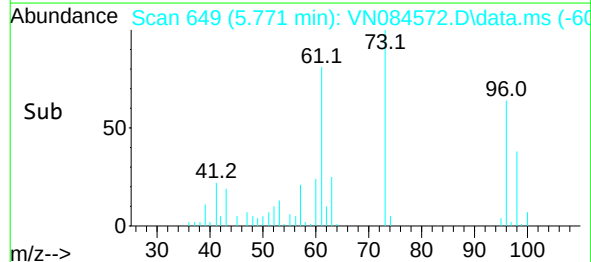
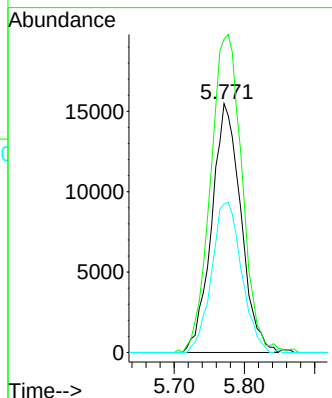
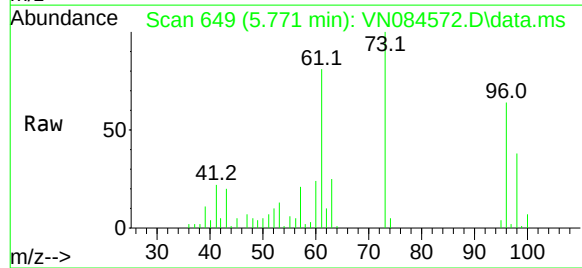
98 59.6 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#22

Diisopropyl ether

Concen: 20.937 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Tgt Ion: 45 Resp: 144115

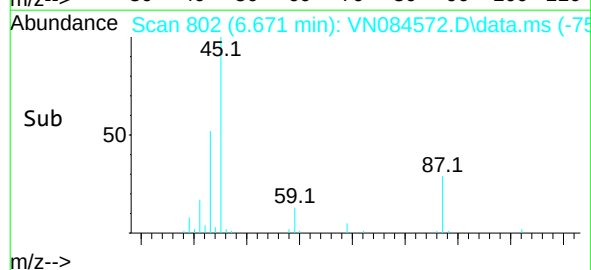
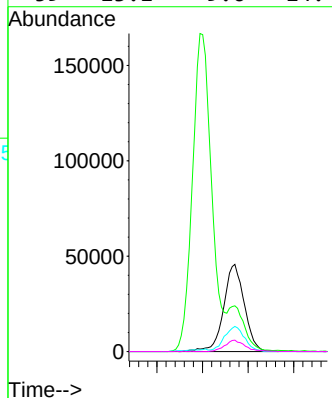
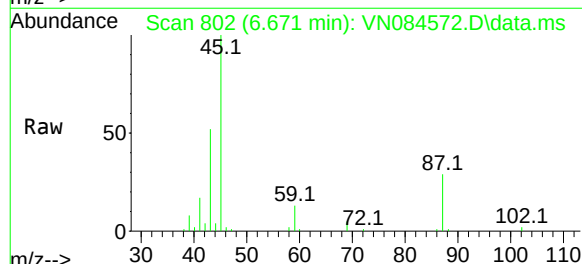
Ion Ratio Lower Upper

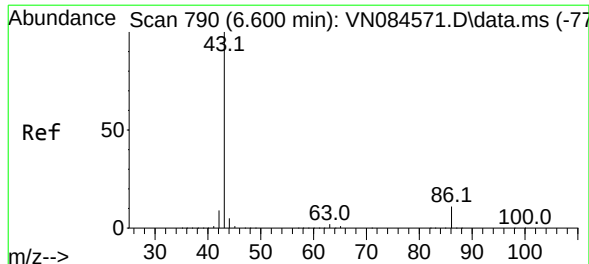
45 100

43 51.0 42.3 63.5

87 28.9 21.8 32.6

59 13.1 9.6 14.4





#23

Vinyl Acetate

Concen: 103.232 ug/l

RT: 6.594 min Scan# 78

Delta R.T. -0.006 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 490034

Ion Ratio Lower Upper

43 100

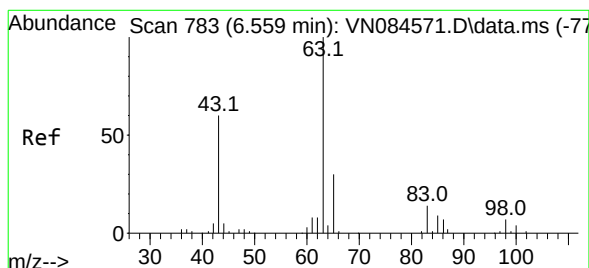
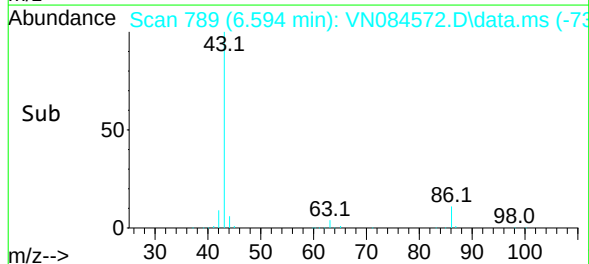
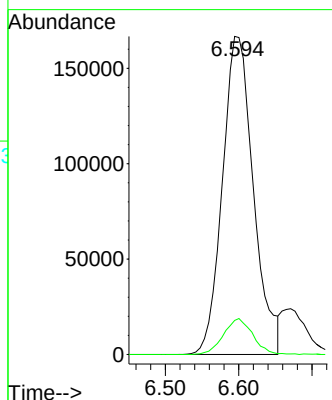
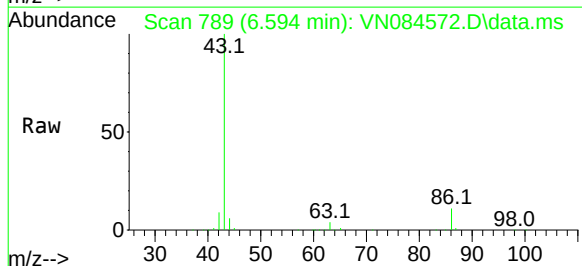
86 10.7 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#24

1,1-Dichloroethane

Concen: 20.218 ug/l

RT: 6.559 min Scan# 783

Delta R.T. -0.012 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

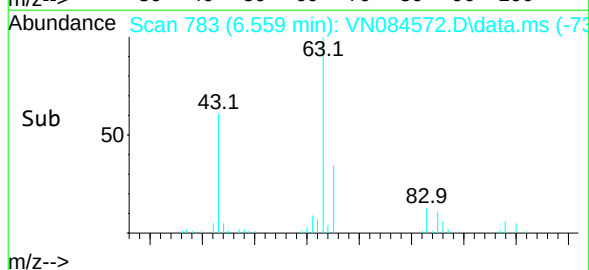
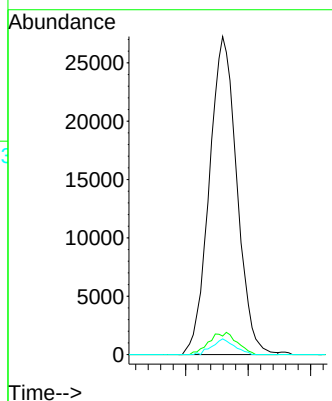
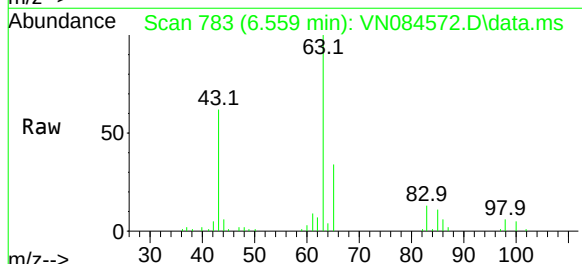
Tgt Ion: 63 Resp: 83555

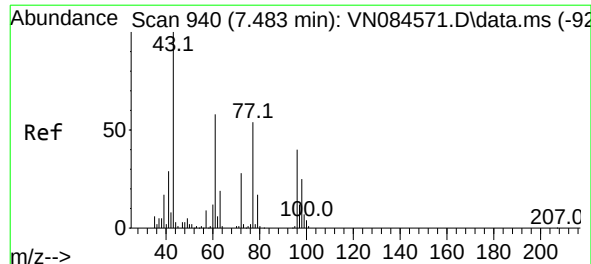
Ion Ratio Lower Upper

63 100

98 5.8 3.4 10.2

100 4.9 2.0 5.8





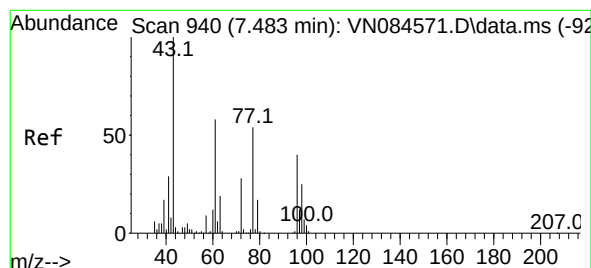
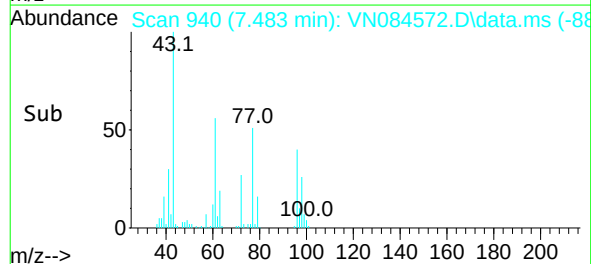
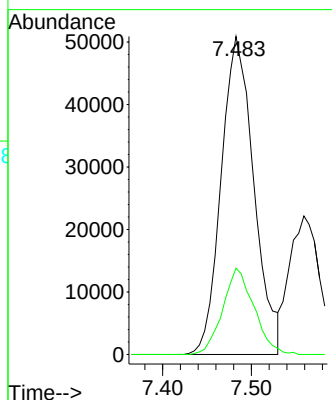
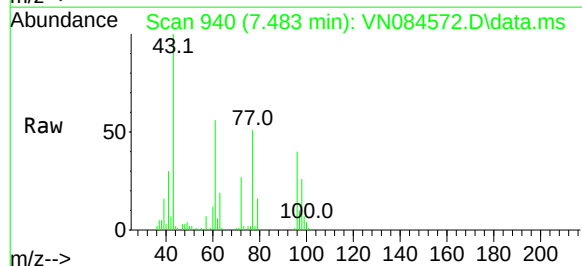
#25
2-Butanone
Concen: 103.281 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN084572.D
Acq: 30 Oct 2024 12:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 130541
Ion Ratio Lower Upper
43 100
72 27.1 21.4 32.2

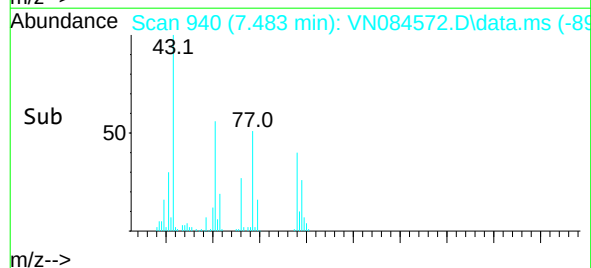
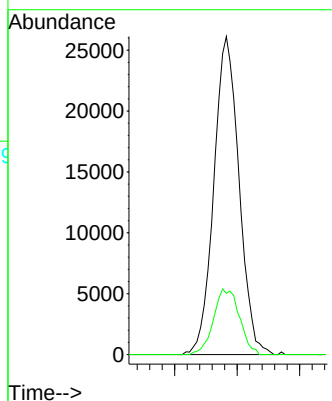
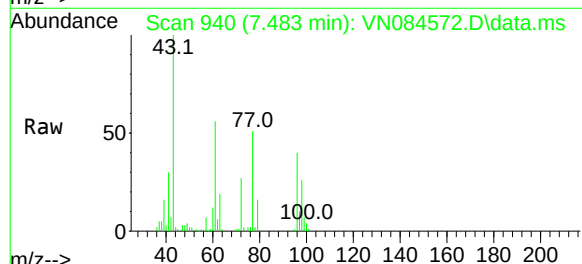
Manual Integrations
APPROVED

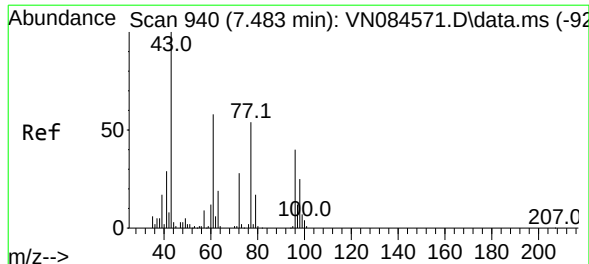
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#26
2,2-Dichloropropane
Concen: 20.313 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN084572.D
Acq: 30 Oct 2024 12:33

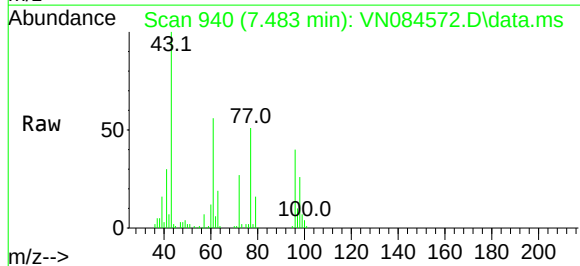
Tgt Ion: 77 Resp: 73066
Ion Ratio Lower Upper
77 100
97 21.2 10.8 32.3





#27
cis-1,2-Dichloroethene
Concen: 20.412 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN084572.D
Acq: 30 Oct 2024 12:33

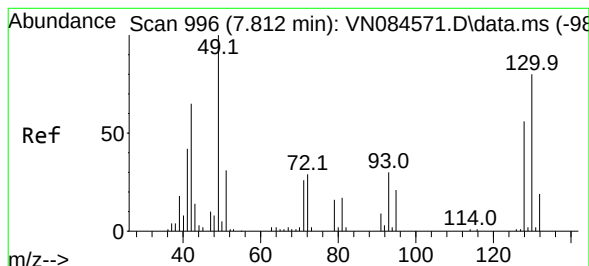
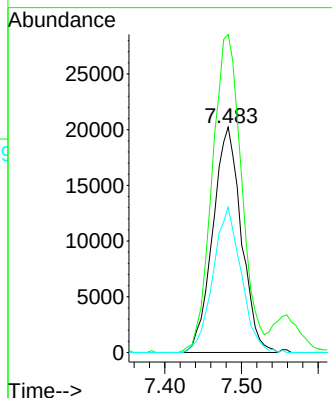
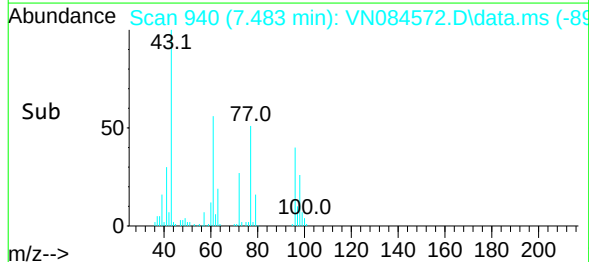
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 96 Resp: 52279
Ion Ratio Lower Upper
96 100
61 145.3 0.0 301.8
98 63.6 0.0 128.2

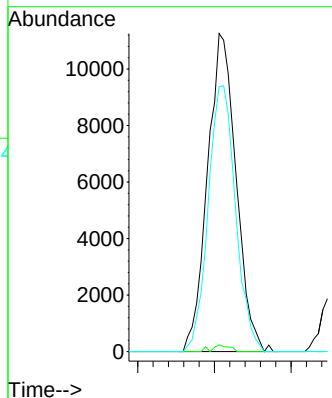
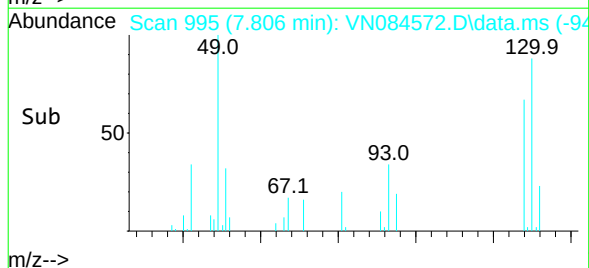
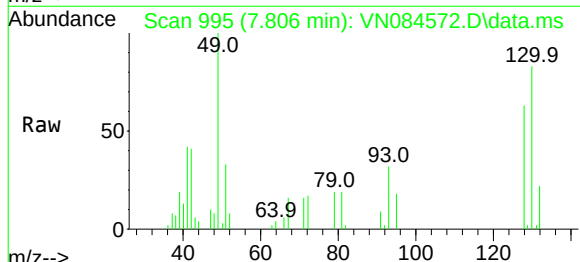
Manual Integrations
APPROVED

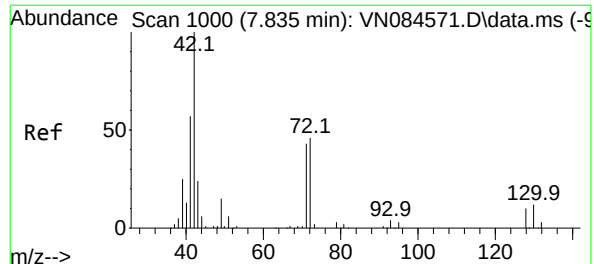
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#28
Bromochloromethane
Concen: 17.702 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.006 min
Lab File: VN084572.D
Acq: 30 Oct 2024 12:33

Tgt Ion: 49 Resp: 29146
Ion Ratio Lower Upper
49 100
129 1.3 0.0 3.6
130 79.9 58.0 87.0





#29

Tetrahydrofuran

Concen: 103.560 ug/l

RT: 7.836 min Scan# 10

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 42 Resp: 86837

Ion Ratio Lower Upper

42 100

72 45.4 34.6 51.8

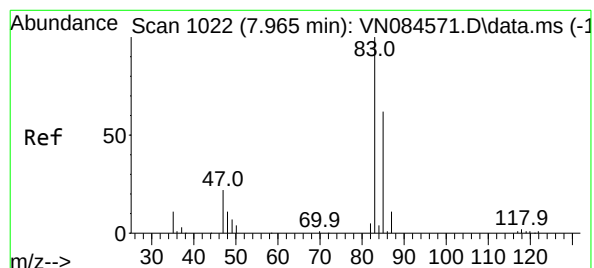
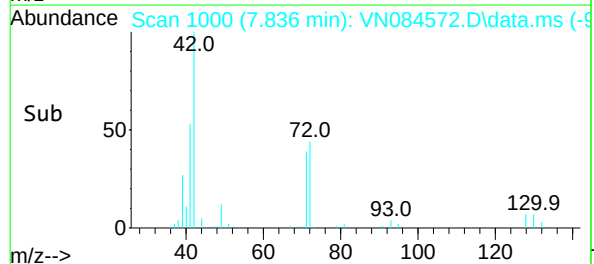
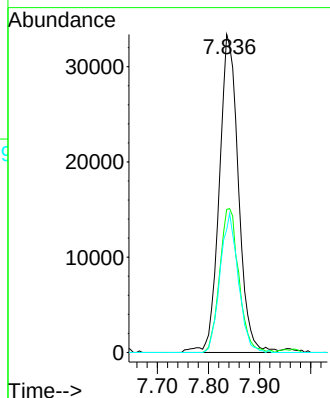
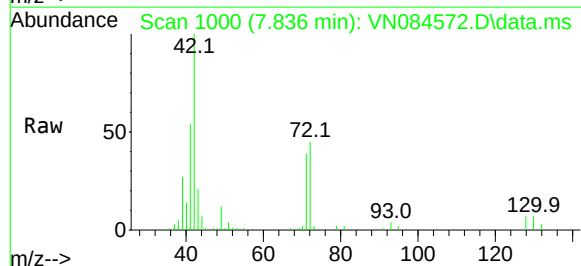
71 41.5 32.2 48.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#30

Chloroform

Concen: 20.368 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VN084572.D

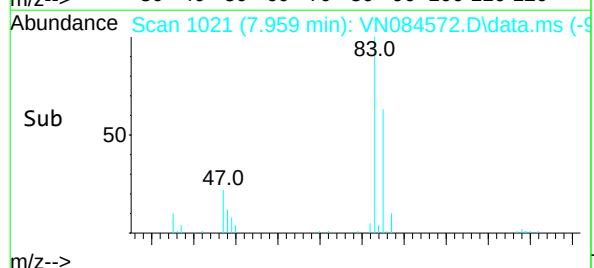
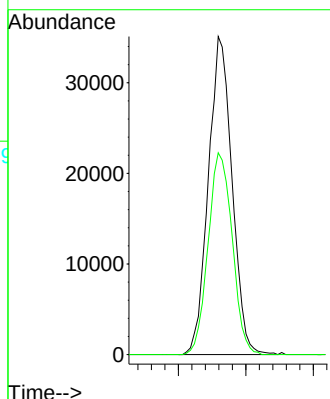
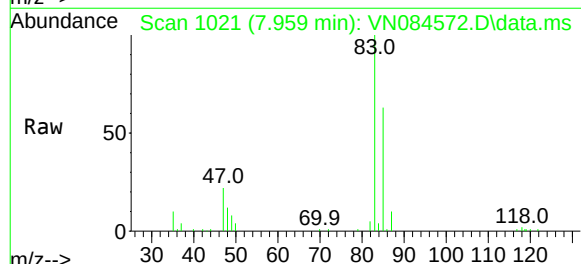
Acq: 30 Oct 2024 12:33

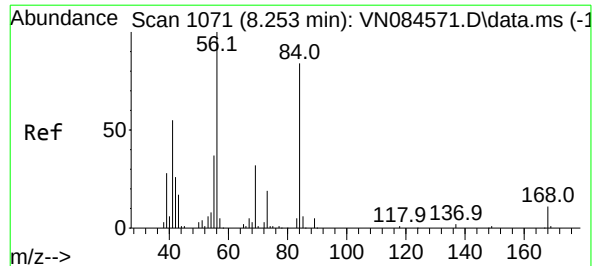
Tgt Ion: 83 Resp: 85675

Ion Ratio Lower Upper

83 100

85 63.4 51.0 76.4





#31

Cyclohexane

Concen: 19.169 ug/l

RT: 8.247 min Scan# 1071

Delta R.T. -0.006 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 71698

Ion Ratio Lower Upper

56 100

69 32.3 23.8 35.6

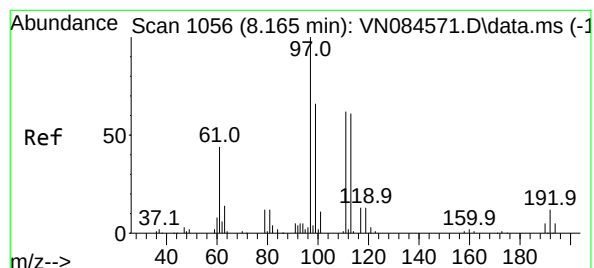
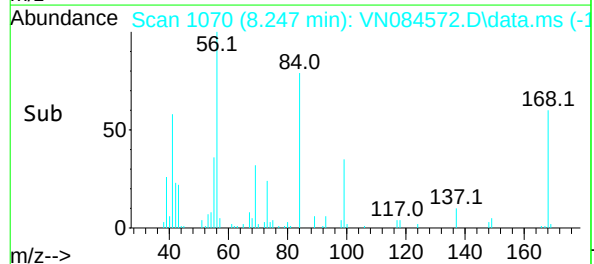
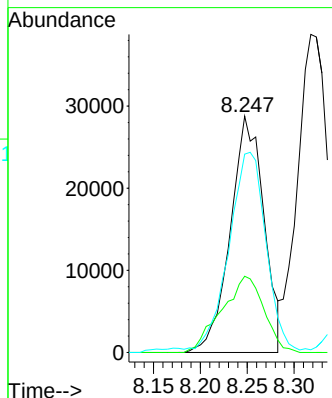
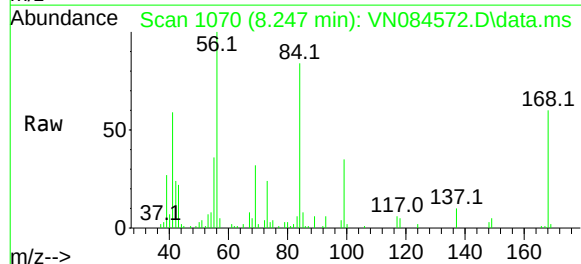
84 82.2 68.8 103.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#32

1,1,1-Trichloroethane

Concen: 20.493 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

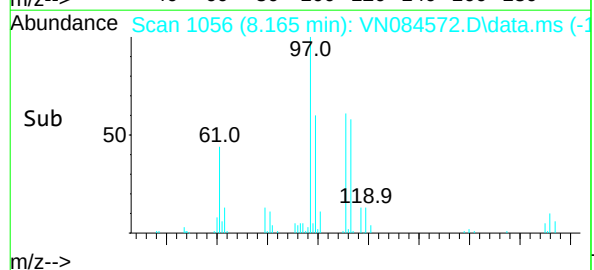
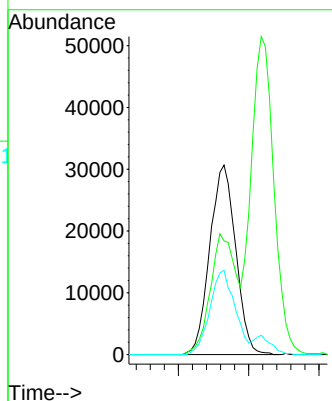
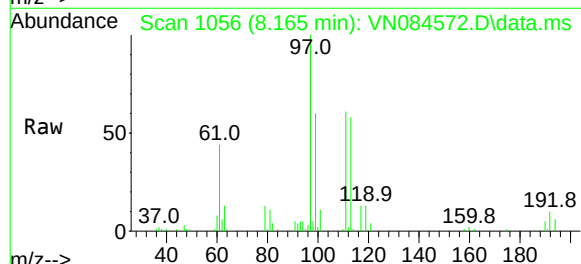
Tgt Ion: 97 Resp: 78458

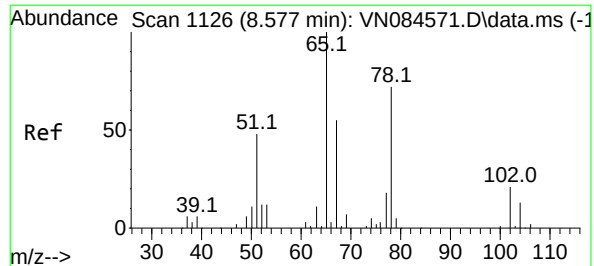
Ion Ratio Lower Upper

97 100

99 63.2 51.2 76.8

61 43.3 37.5 56.3





#33

1,2-Dichloroethane-d4

Concen: 19.600 ug/l

RT: 8.571 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 65 Resp: 53102

Ion Ratio Lower Upper

65 100

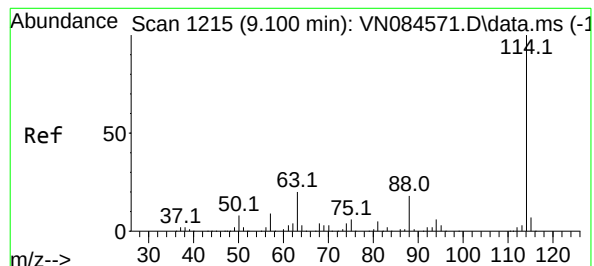
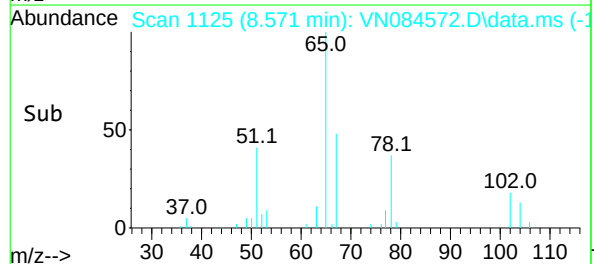
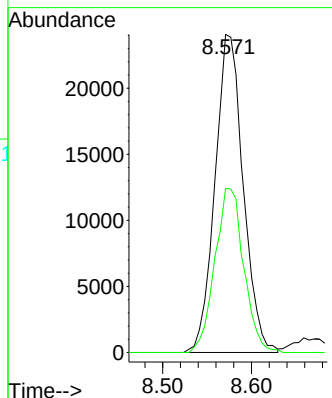
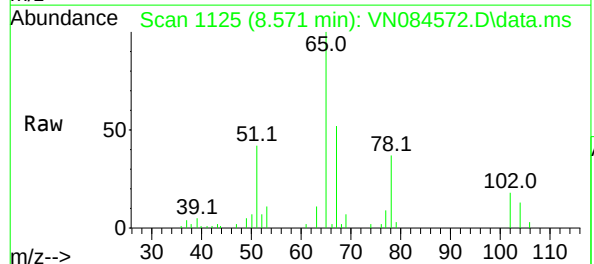
67 52.8 0.0 102.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

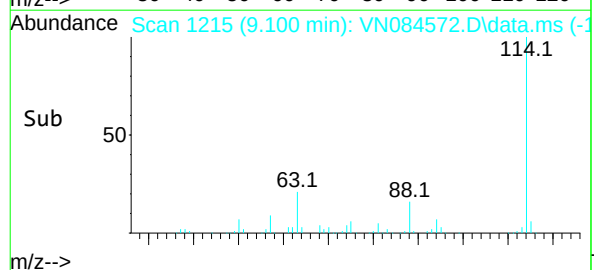
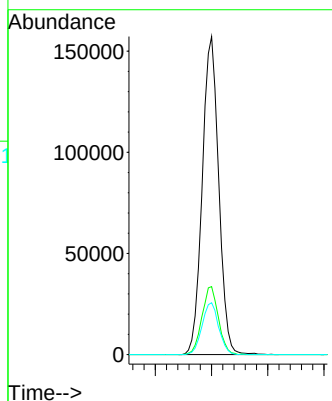
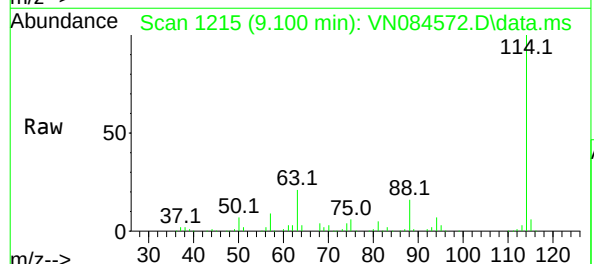
Tgt Ion:114 Resp: 319890

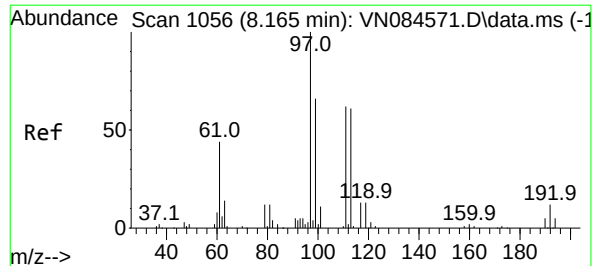
Ion Ratio Lower Upper

114 100

63 21.4 0.0 43.8

88 16.3 0.0 31.6





#35

Dibromofluoromethane

Concen: 19.252 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:113 Resp: 41686

Ion Ratio Lower Upper

113 100

111 105.0 83.3 124.9

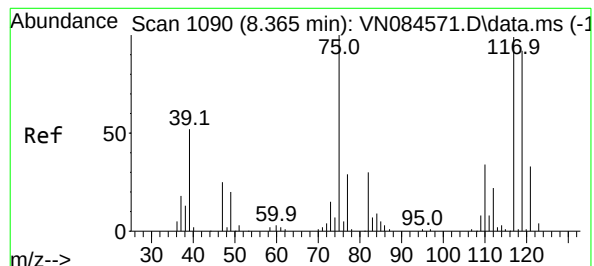
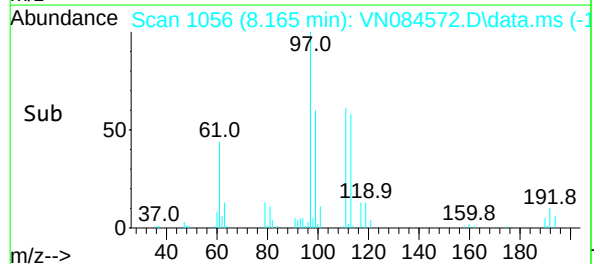
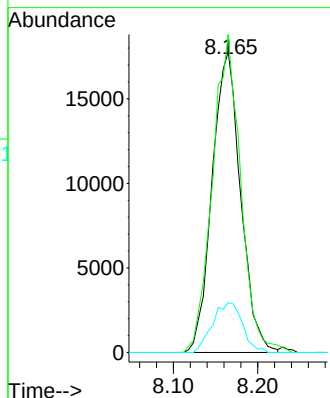
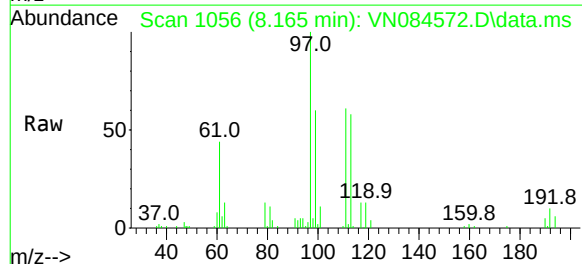
192 17.4 13.5 20.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#36

1,1-Dichloropropene

Concen: 20.050 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

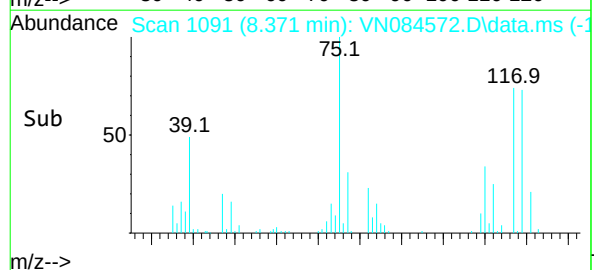
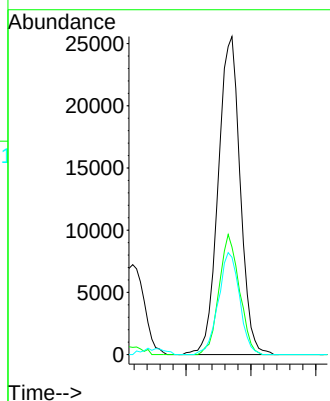
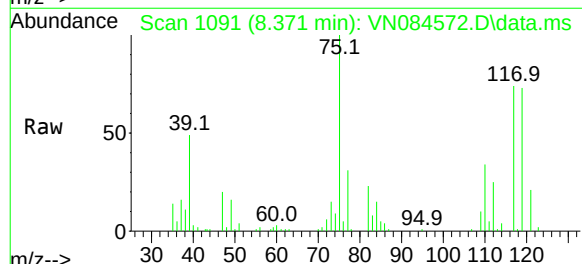
Tgt Ion: 75 Resp: 60208

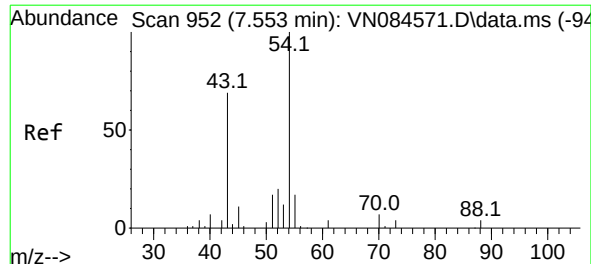
Ion Ratio Lower Upper

75 100

110 34.9 16.9 50.7

77 30.9 24.7 37.1





#37

Ethyl Acetate

Concen: 20.165 ug/l

RT: 7.559 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

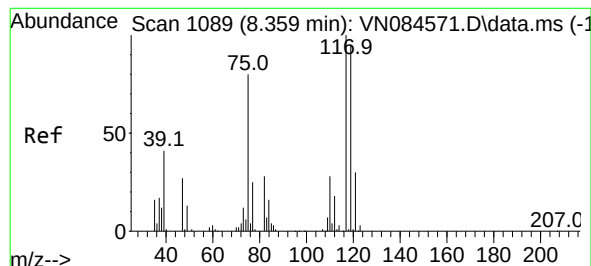
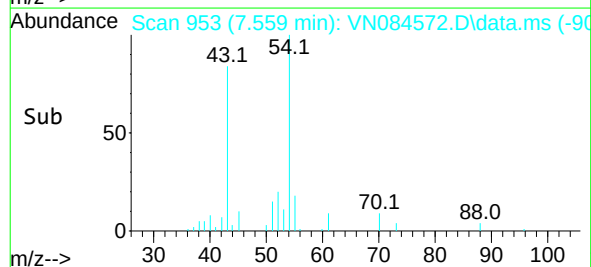
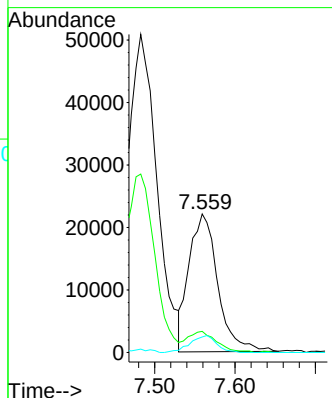
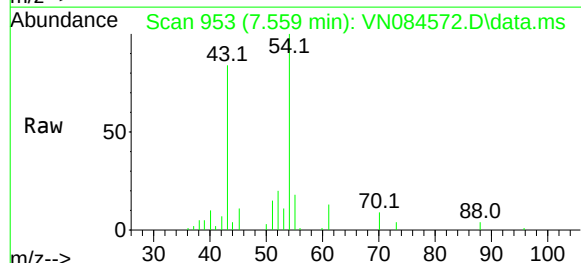
ClientSampleId :

VSTDICC020

Tgt Ion:	43	Resp:	54942
Ion	Ratio	Lower	Upper
43	100		
61	15.7	10.7	16.1
70	11.2	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#38

Carbon Tetrachloride

Concen: 20.282 ug/l

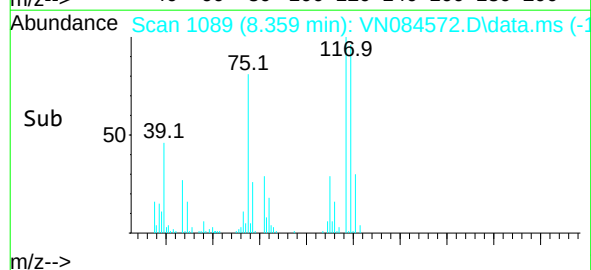
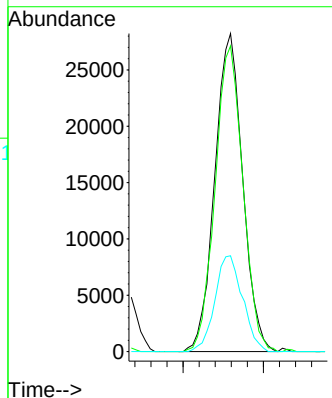
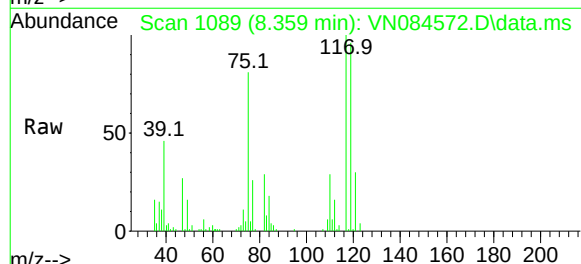
RT: 8.359 min Scan# 1089

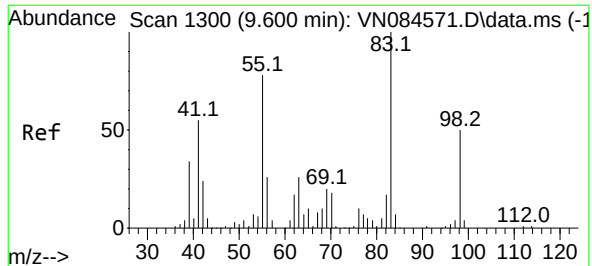
Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Tgt Ion:	117	Resp:	68076
Ion	Ratio	Lower	Upper
117	100		
119	96.1	78.7	118.1
121	30.1	24.4	36.6





#39

Methylcyclohexane

Concen: 20.722 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

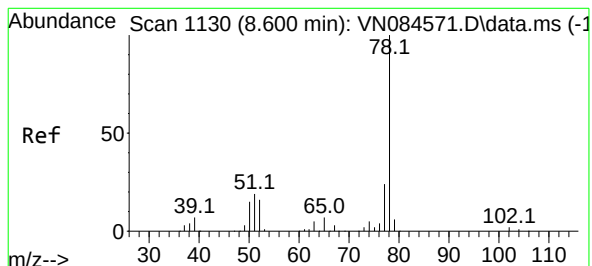
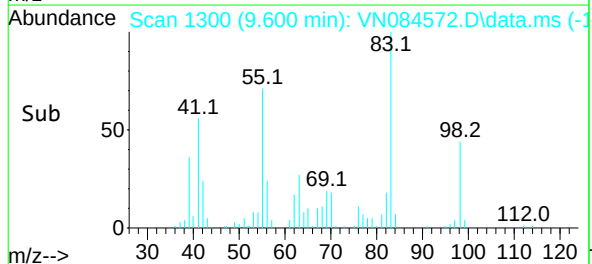
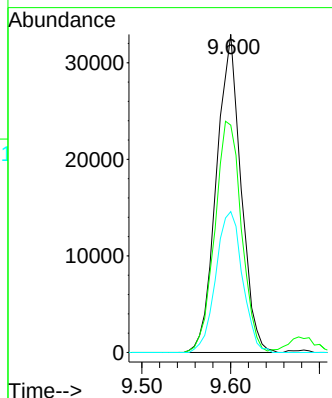
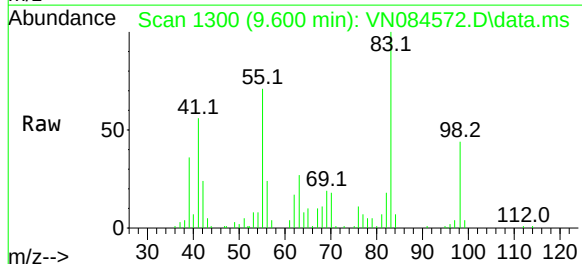
ClientSampleId :

VSTDIC020

Tgt Ion:	83	Resp:	63305
Ion	Ratio	Lower	Upper
83	100		
55	71.5	62.8	94.2
98	44.3	38.8	58.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#40

Benzene

Concen: 20.026 ug/l

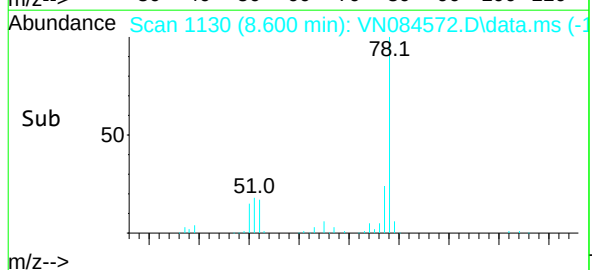
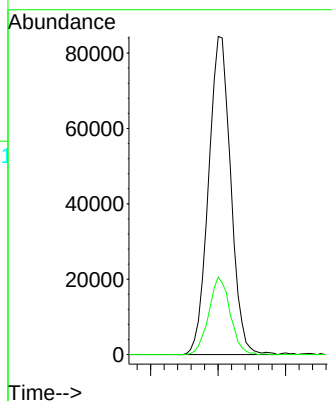
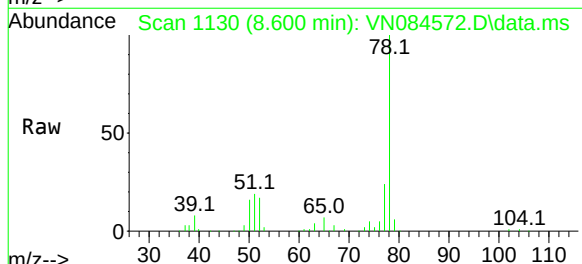
RT: 8.600 min Scan# 1130

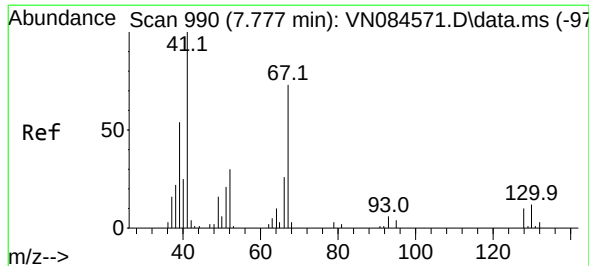
Delta R.T. -0.006 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Tgt Ion:	78	Resp:	193129
Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.1	28.7





#41

Methacrylonitrile

Concen: 20.882 ug/l

RT: 7.771 min Scan# 98

Delta R.T. -0.006 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 41 Resp: 30596

Ion Ratio Lower Upper

41 100

39 55.5 43.3 64.9

67 74.5 56.1 84.1

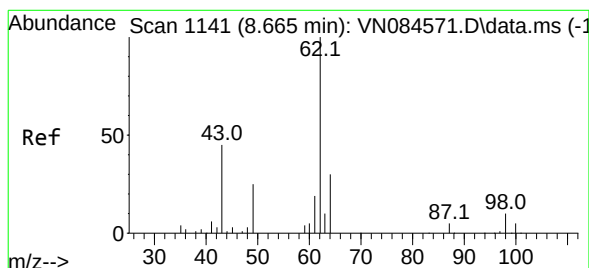
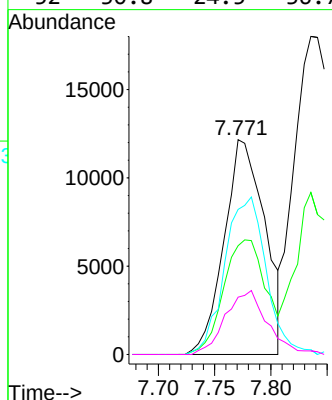
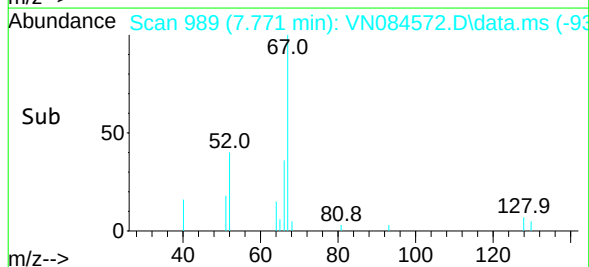
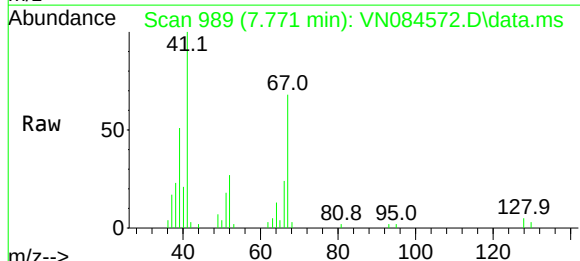
52 30.8 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#42

1,2-Dichloroethane

Concen: 20.180 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.006 min

Lab File: VN084572.D

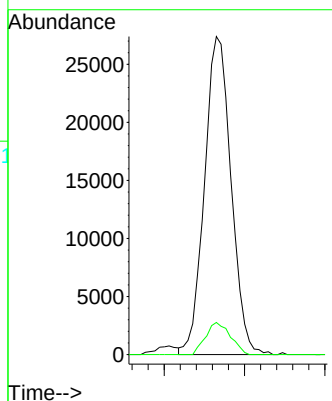
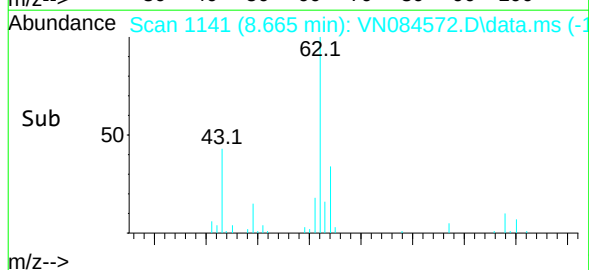
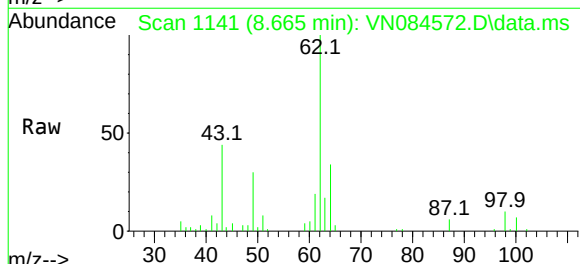
Acq: 30 Oct 2024 12:33

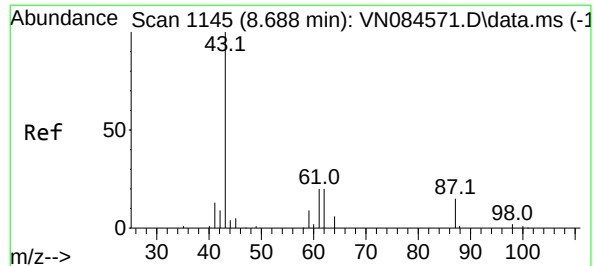
Tgt Ion: 62 Resp: 63026

Ion Ratio Lower Upper

62 100

98 9.4 0.0 18.2





#43

Isopropyl Acetate

Concen: 20.277 ug/l

RT: 8.688 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 104951

Ion Ratio Lower Upper

43 100

61 24.2 20.4 30.6

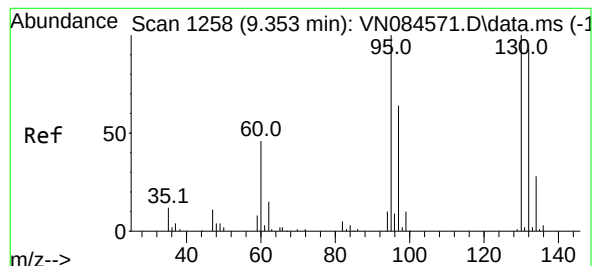
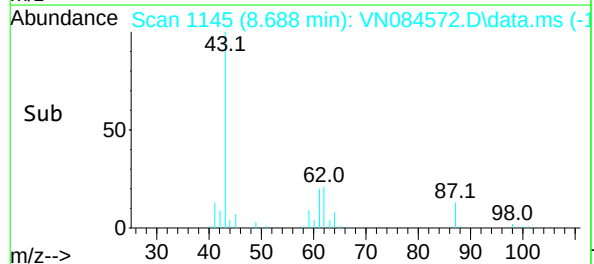
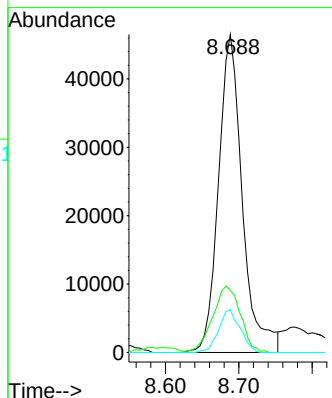
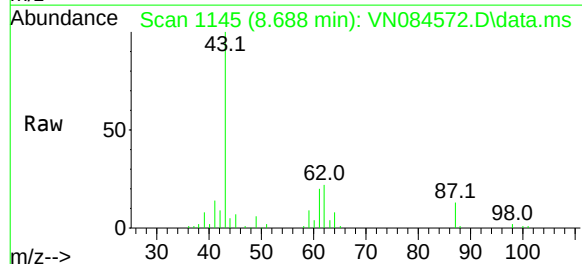
87 12.1 10.3 15.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#44

Trichloroethene

Concen: 19.862 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN084572.D

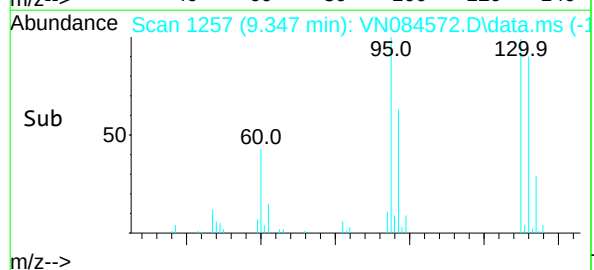
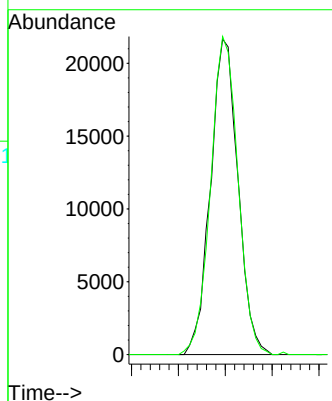
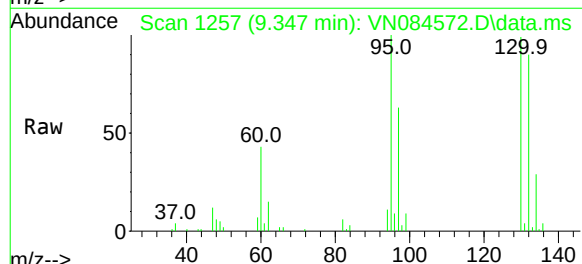
Acq: 30 Oct 2024 12:33

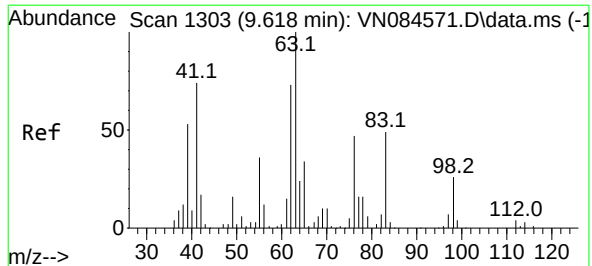
Tgt Ion:130 Resp: 44176

Ion Ratio Lower Upper

130 100

95 100.8 0.0 203.0





#45

1,2-Dichloropropane

Concen: 20.229 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 63 Resp: 45764

Ion Ratio Lower Upper

63 100

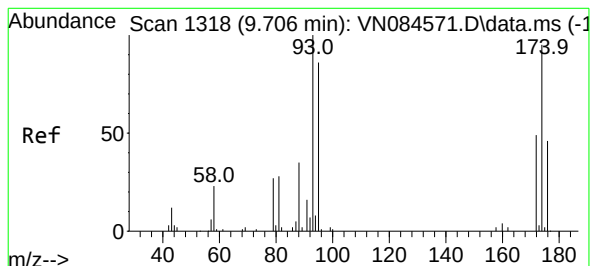
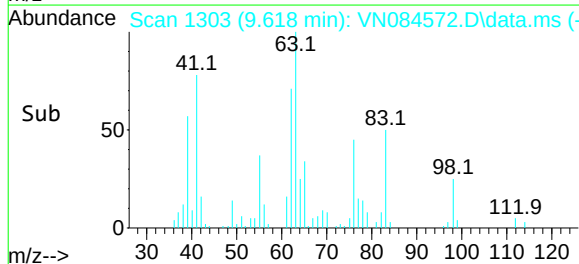
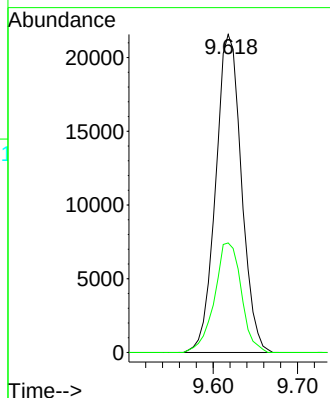
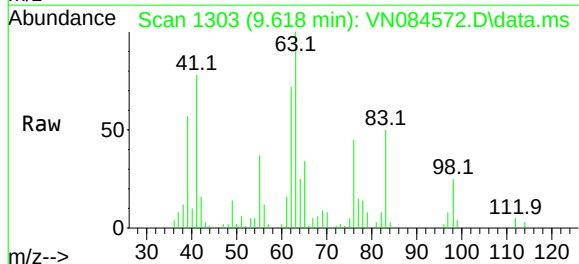
65 34.4 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#46

Dibromomethane

Concen: 20.583 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

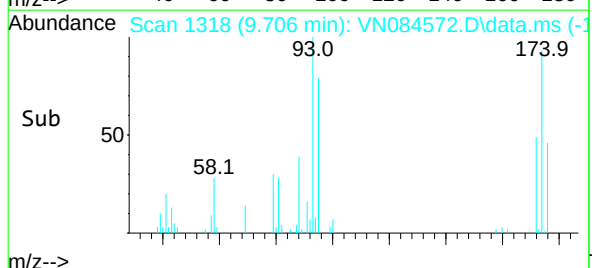
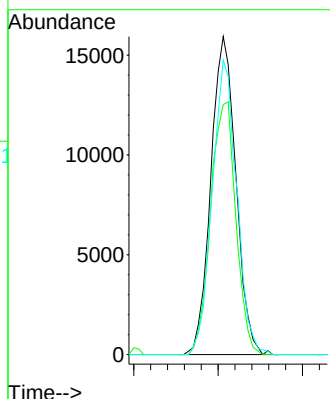
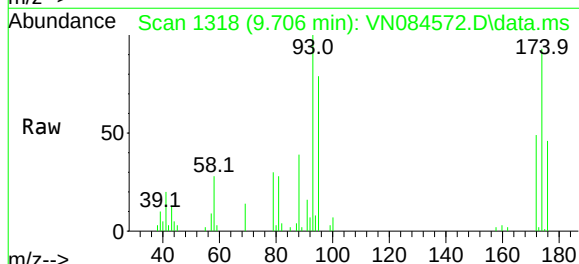
Tgt Ion: 93 Resp: 32857

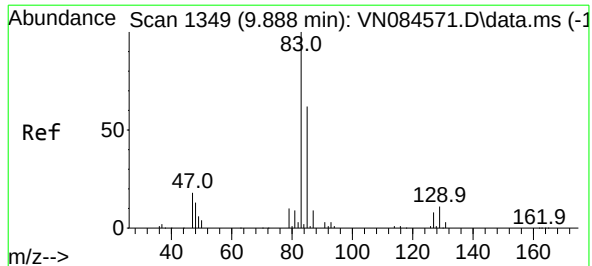
Ion Ratio Lower Upper

93 100

95 79.9 65.0 97.4

174 90.6 71.8 107.8





#47

Bromodichloromethane

Concen: 19.997 ug/l

RT: 9.888 min Scan# 13

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 83 Resp: 67288

Ion Ratio Lower Upper

83 100

85 65.5 51.5 77.3

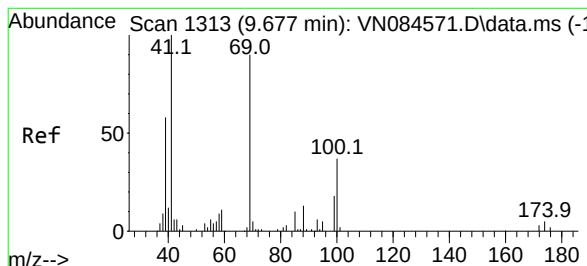
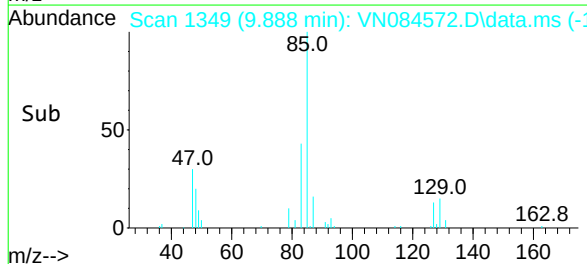
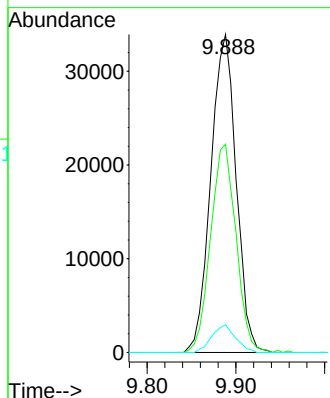
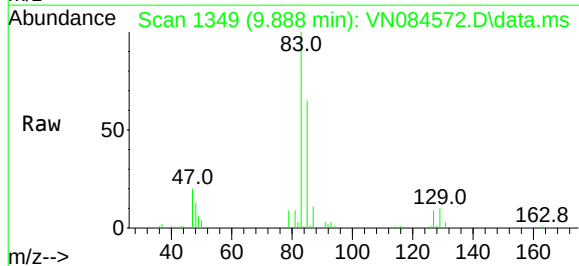
127 8.7 5.7 8.5#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#48

Methyl methacrylate

Concen: 20.466 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. 0.006 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

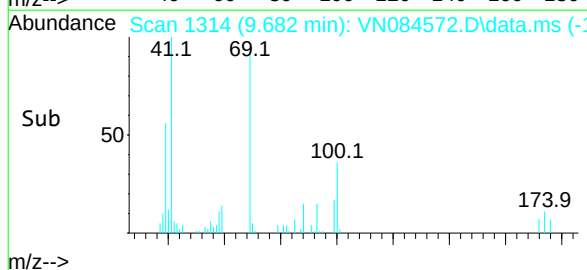
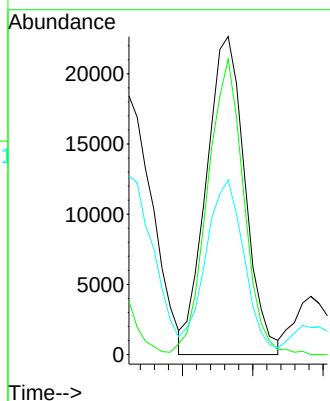
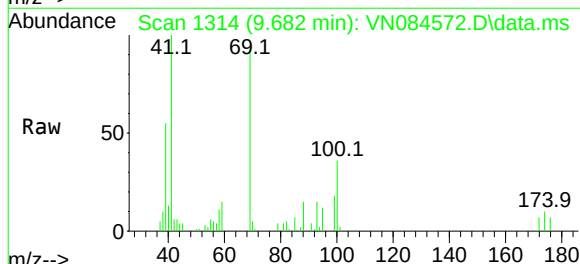
Tgt Ion: 41 Resp: 43398

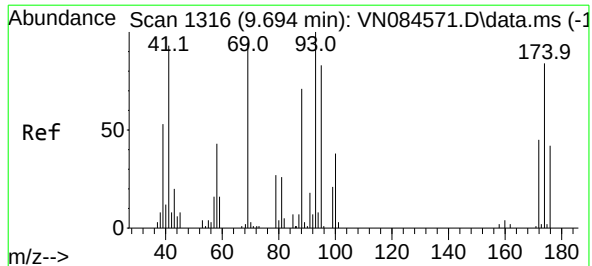
Ion Ratio Lower Upper

41 100

69 86.8 67.1 100.7

39 55.1 45.8 68.6





#49

1,4-Dioxane

Concen: 410.291 ug/l

RT: 9.700 min Scan# 1316

Delta R.T. 0.006 min

Lab File: VN084572.D

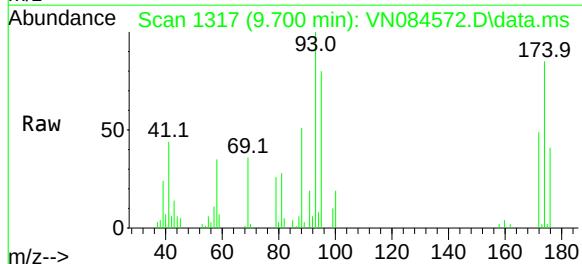
Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

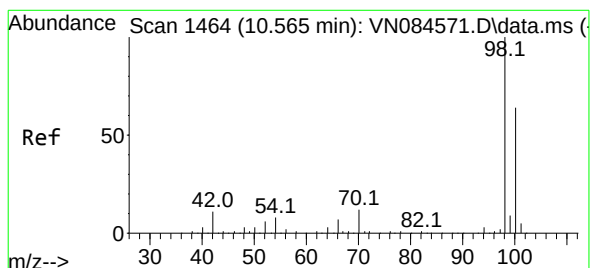
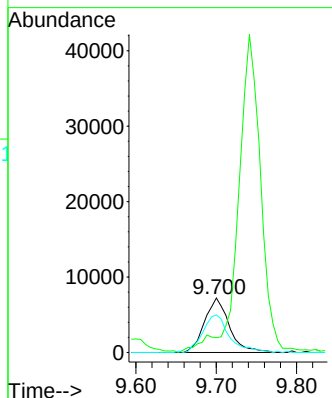
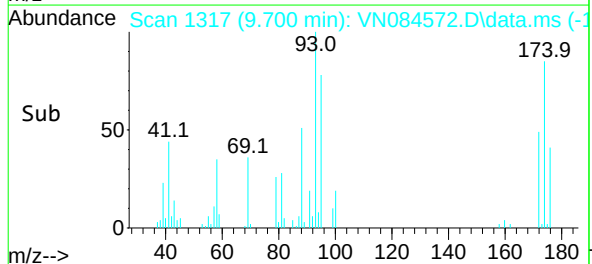
VSTDIC020



Tgt Ion:	88	Resp:	15417
Ion	Ratio	Lower	Upper
88	100		
43	0.0	25.3	37.9
58	74.6	56.4	84.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#50

Toluene-d8

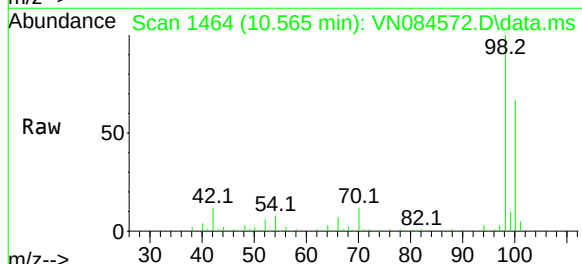
Concen: 19.504 ug/l

RT: 10.565 min Scan# 1464

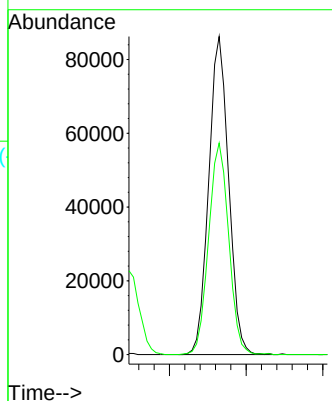
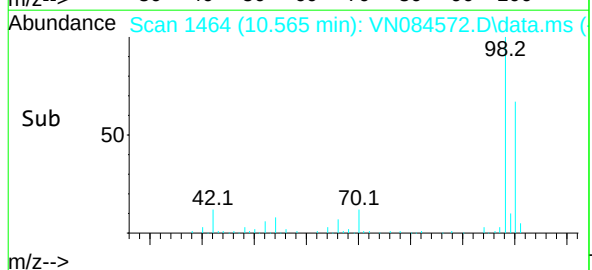
Delta R.T. -0.000 min

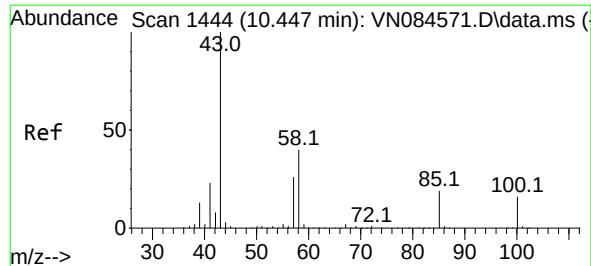
Lab File: VN084572.D

Acq: 30 Oct 2024 12:33



Tgt Ion:	98	Resp:	155563
Ion	Ratio	Lower	Upper
98	100		
100	67.2	52.7	79.1





#51

4-Methyl-2-Pentanone

Concen: 102.417 ug/l

RT: 10.447 min Scan# 14

Delta R.T. 0.006 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 266010

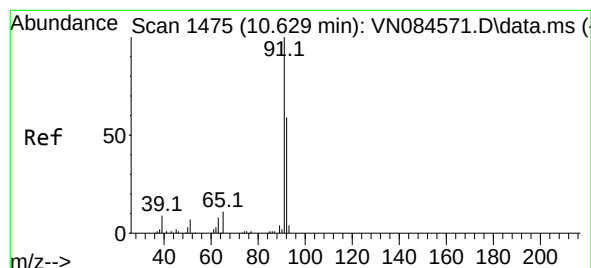
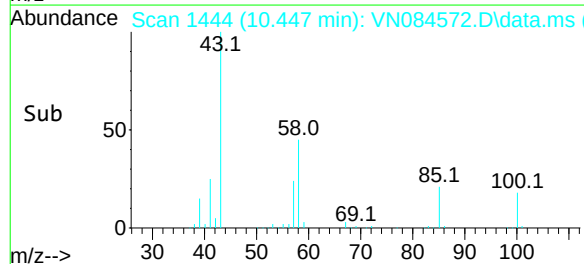
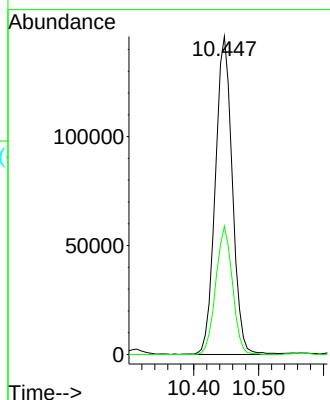
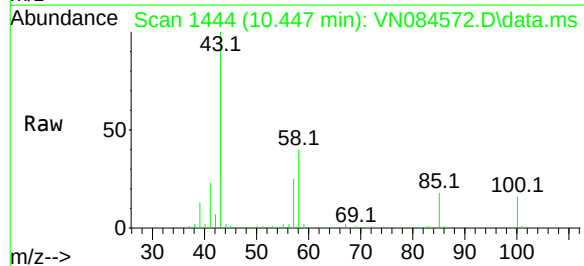
Ion Ratio Lower Upper

43 100

58 39.4 31.6 47.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#52

Toluene

Concen: 20.838 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VN084572.D

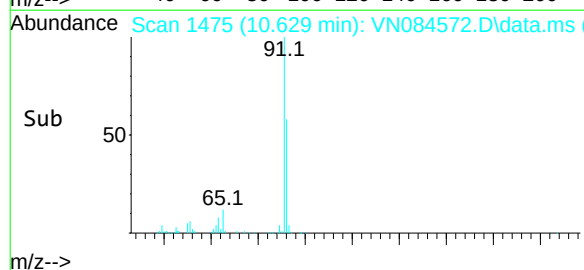
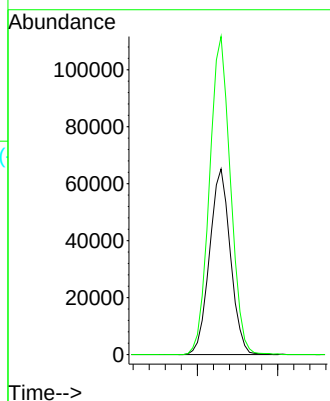
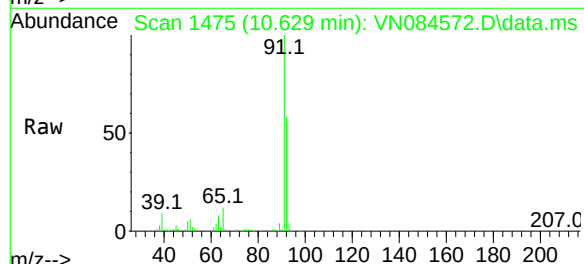
Acq: 30 Oct 2024 12:33

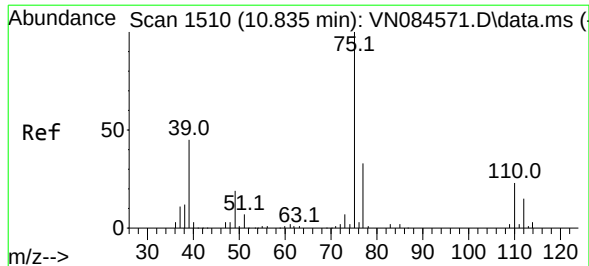
Tgt Ion: 92 Resp: 117530

Ion Ratio Lower Upper

92 100

91 172.4 137.3 205.9





#53

t-1,3-Dichloropropene

Concen: 19.766 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Tgt Ion: 75 Resp: 68847

Ion Ratio Lower Upper

75 100

77 30.9 25.4 38.0

Instrument :

MSVOA_N

ClientSampleId :

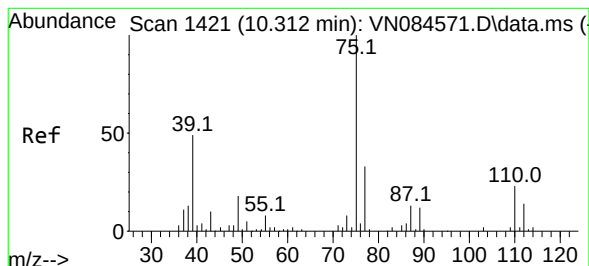
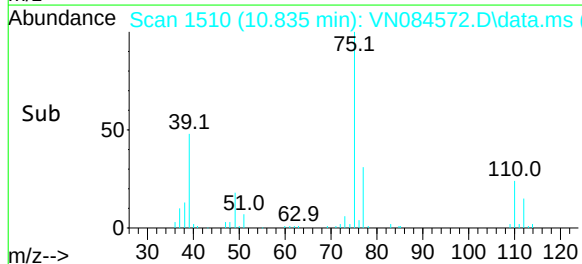
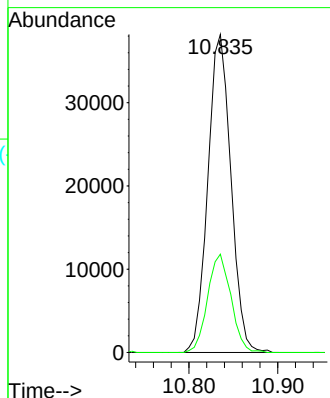
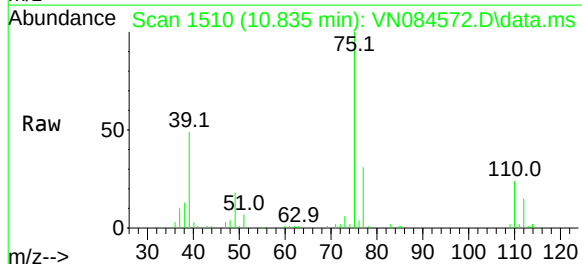
VSTDICC020

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#54

cis-1,3-Dichloropropene

Concen: 20.208 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

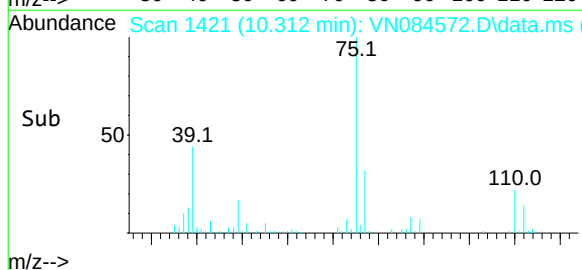
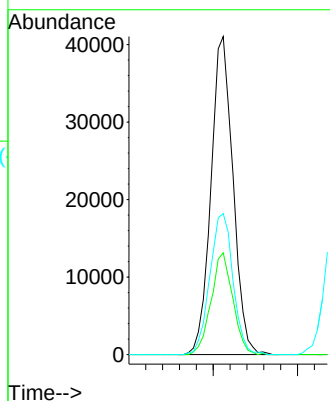
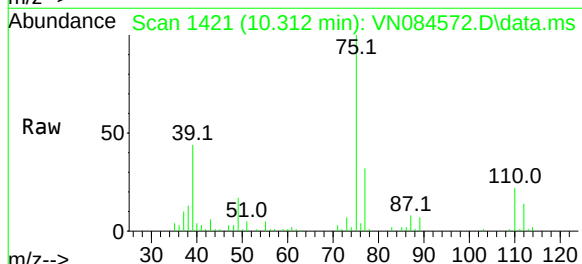
Tgt Ion: 75 Resp: 74498

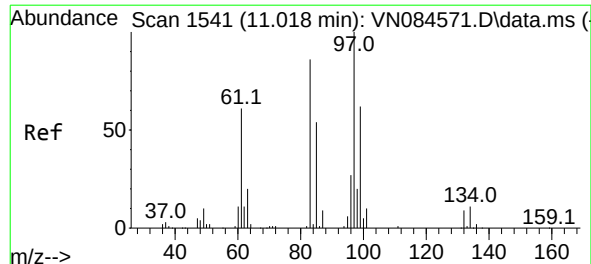
Ion Ratio Lower Upper

75 100

77 32.0 24.2 36.2

39 44.3 38.7 58.1





#55

1,1,2-Trichloroethane

Concen: 20.141 ug/l

RT: 11.012 min Scan# 1541

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 97 Resp: 42791

Ion Ratio Lower Upper

97 100

83 81.7 71.0 106.4

85 56.2 41.7 62.5

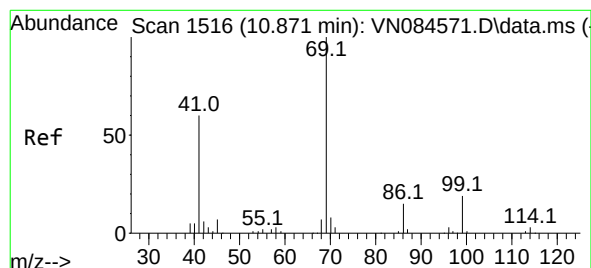
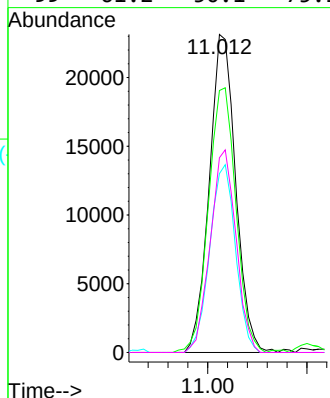
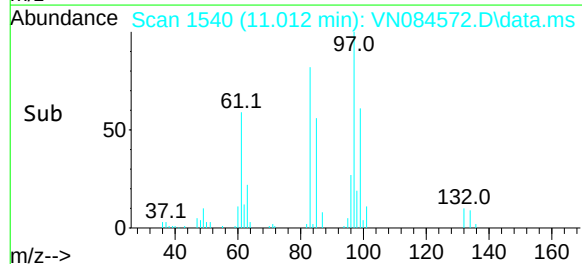
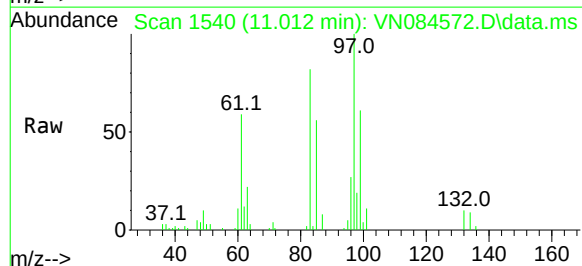
99 61.2 50.1 75.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#56

Ethyl methacrylate

Concen: 20.613 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

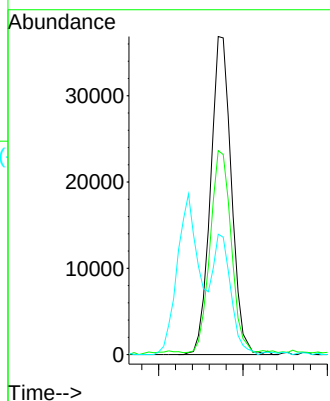
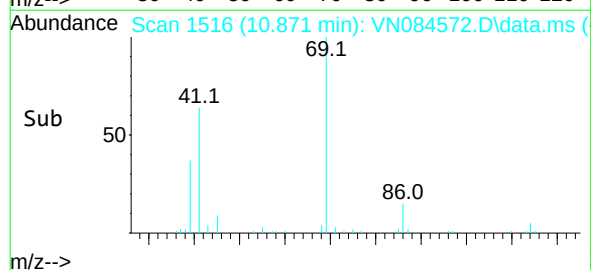
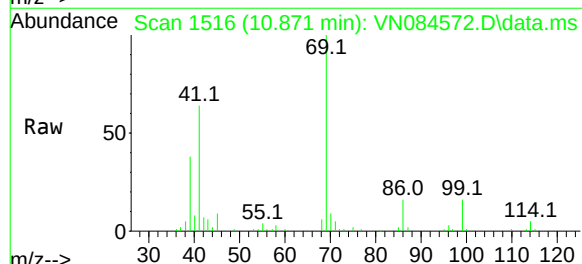
Tgt Ion: 69 Resp: 63347

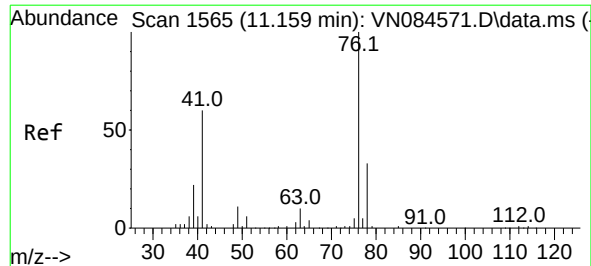
Ion Ratio Lower Upper

69 100

41 64.3 53.3 79.9

39 31.9 28.8 43.2





#57

1,3-Dichloropropane

Concen: 20.317 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 76 Resp: 74082

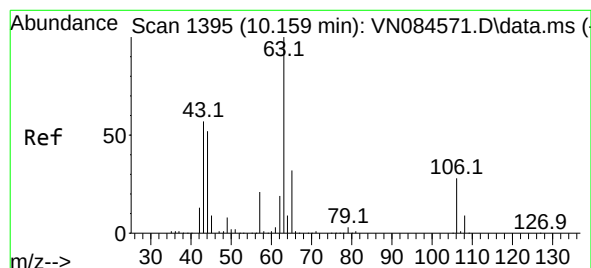
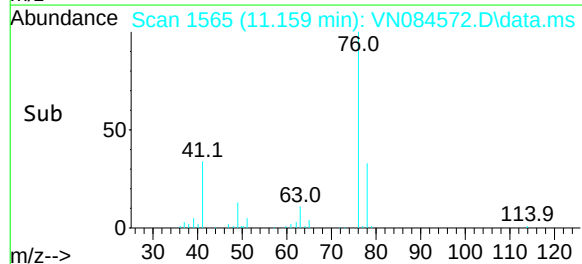
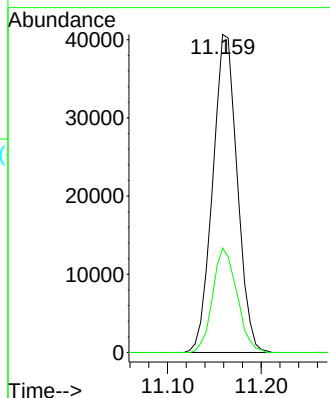
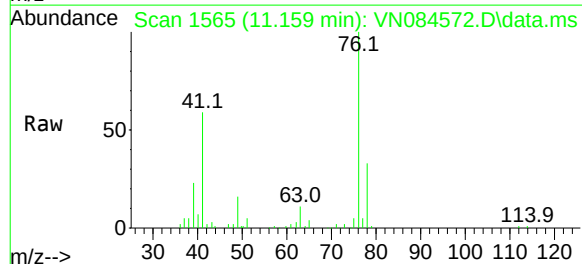
Ion Ratio Lower Upper

76 100

78 32.5 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#58

2-Chloroethyl Vinyl ether

Concen: 101.786 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN084572.D

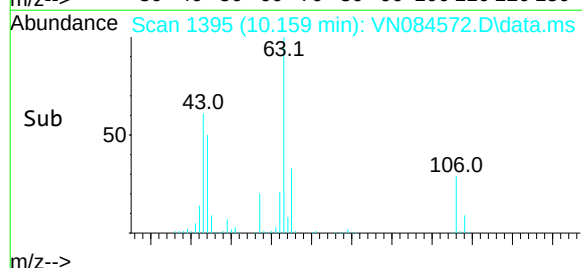
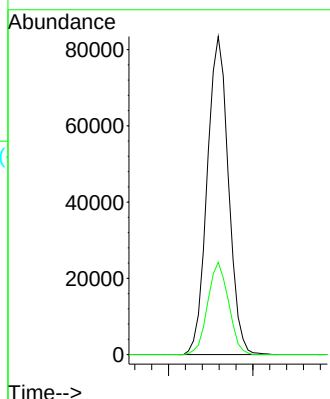
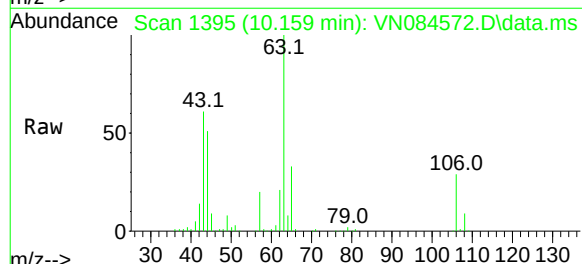
Acq: 30 Oct 2024 12:33

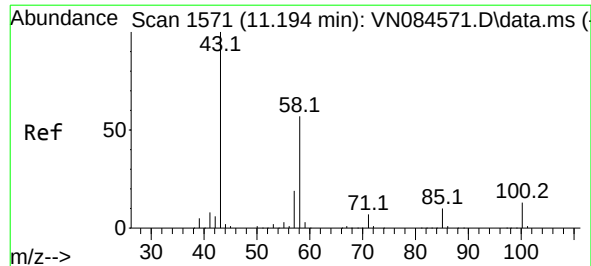
Tgt Ion: 63 Resp: 146372

Ion Ratio Lower Upper

63 100

106 28.4 21.8 32.6





#59

2-Hexanone

Concen: 101.735 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN084572.D

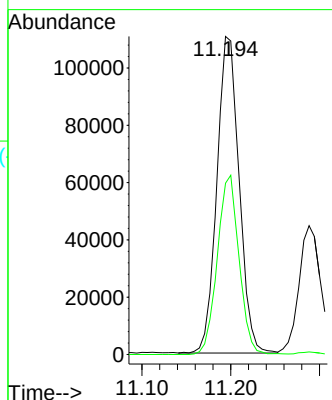
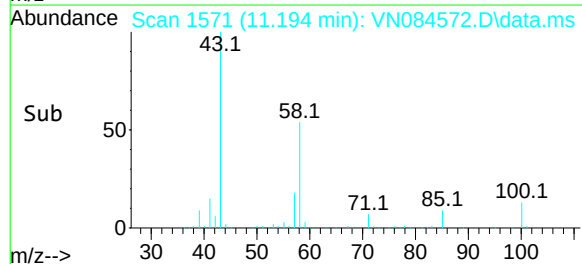
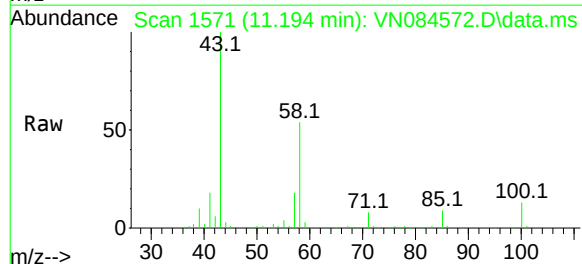
Acq: 30 Oct 2024 12:33

Tgt Ion: 43 Resp: 192335

Ion Ratio Lower Upper

43 100

58 55.2 27.3 81.8



Instrument :

MSVOA_N

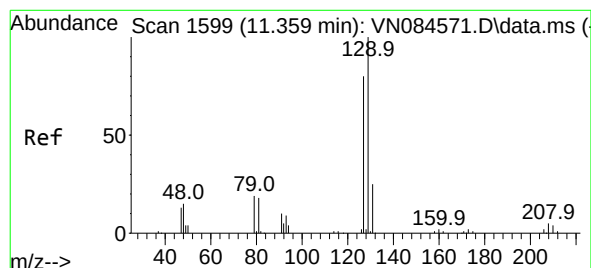
ClientSampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#60

Dibromochloromethane

Concen: 20.665 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN084572.D

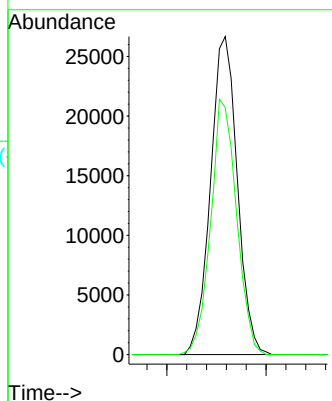
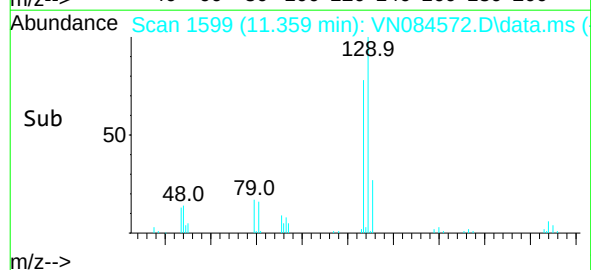
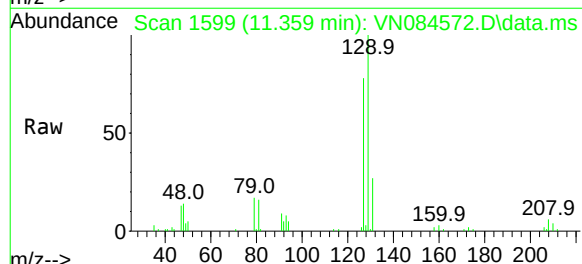
Acq: 30 Oct 2024 12:33

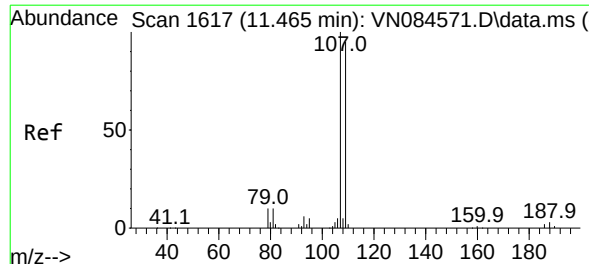
Tgt Ion:129 Resp: 50039

Ion Ratio Lower Upper

129 100

127 77.5 38.3 114.9





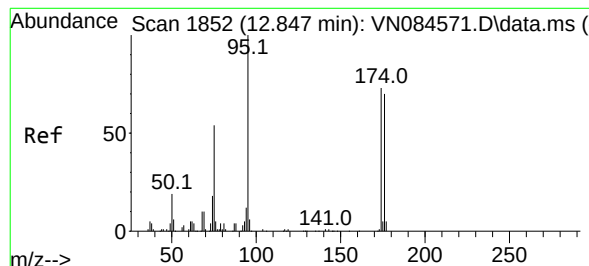
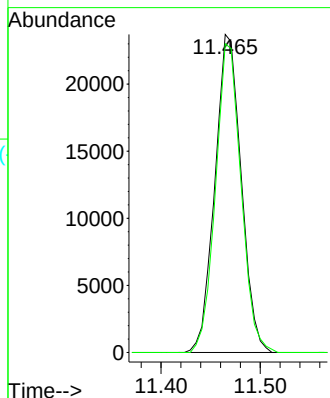
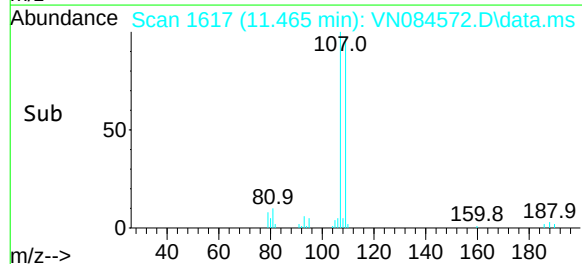
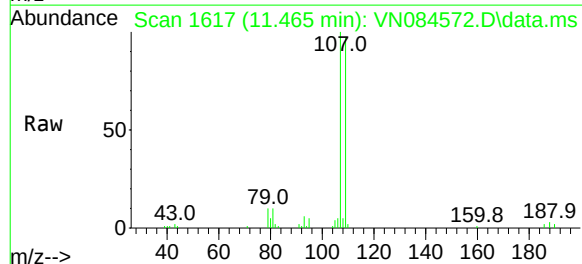
#61
1,2-Dibromoethane
Concen: 20.070 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN084572.D
Acq: 30 Oct 2024 12:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 107 Resp: 43666
Ion Ratio Lower Upper
107 100
109 94.2 75.4 113.0

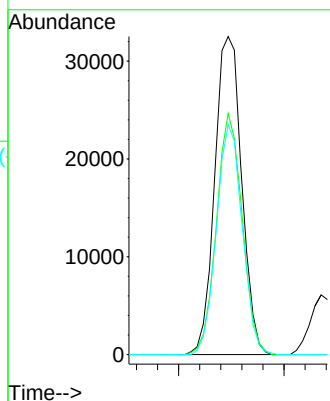
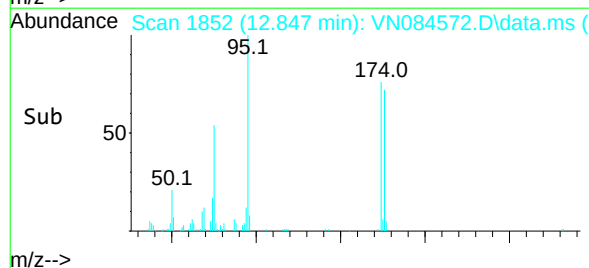
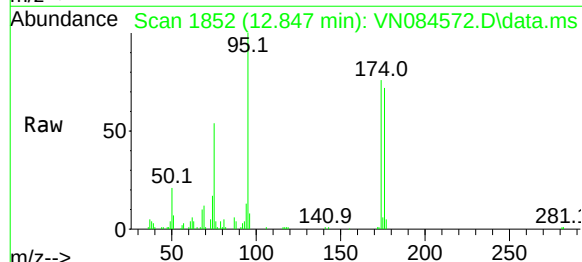
Manual Integrations
APPROVED

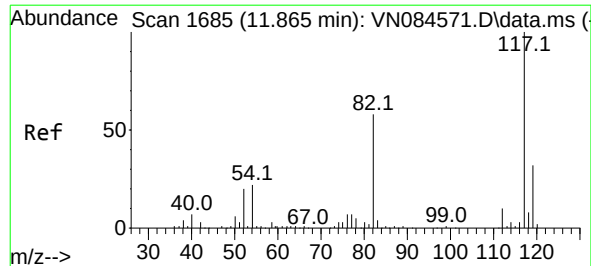
Reviewed By : Semsettin Yesilyurt 11/04/2024
Supervised By : Mahesh Dadoda 11/04/2024



#62
4-Bromofluorobenzene
Concen: 19.330 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084572.D
Acq: 30 Oct 2024 12:33

Tgt Ion: 95 Resp: 57622
Ion Ratio Lower Upper
95 100
174 72.6 0.0 145.2
176 69.4 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:117 Resp: 275857

Ion Ratio Lower Upper

117 100

82 59.3 47.2 70.8

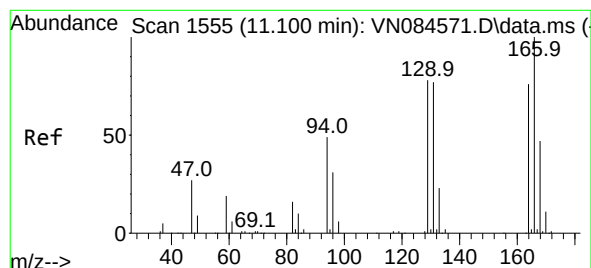
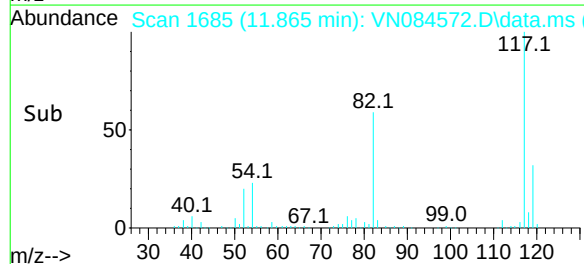
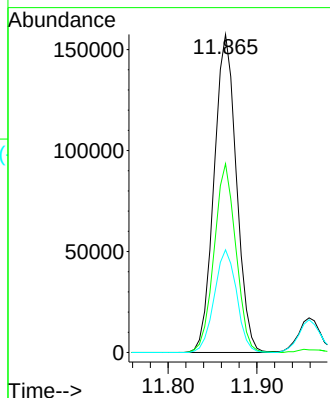
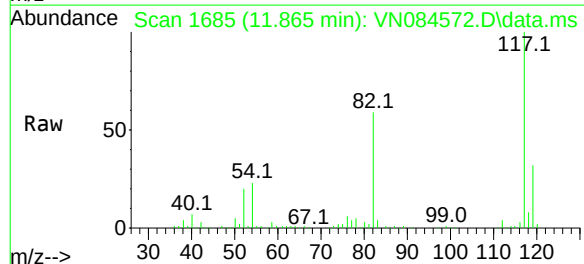
119 32.3 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#64

Tetrachloroethene

Concen: 20.054 ug/l

RT: 11.106 min Scan# 1556

Delta R.T. 0.006 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Tgt Ion:164 Resp: 36798

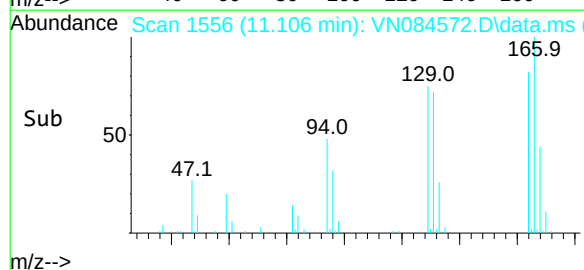
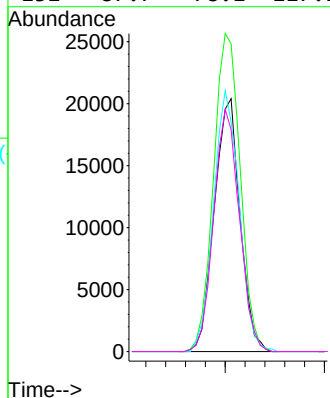
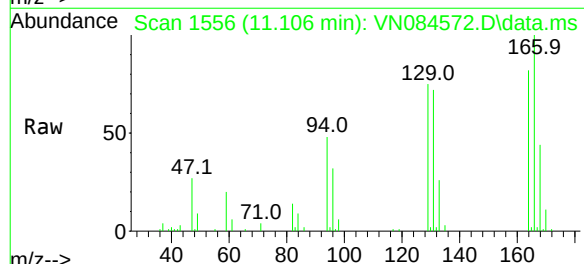
Ion Ratio Lower Upper

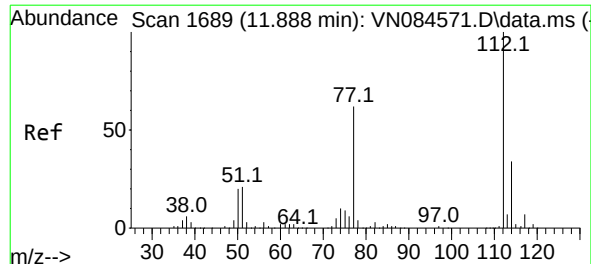
164 100

166 121.7 101.0 151.4

129 90.9 80.8 121.2

131 87.7 78.1 117.1





#65

Chlorobenzene

Concen: 20.539 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:112 Resp: 126753

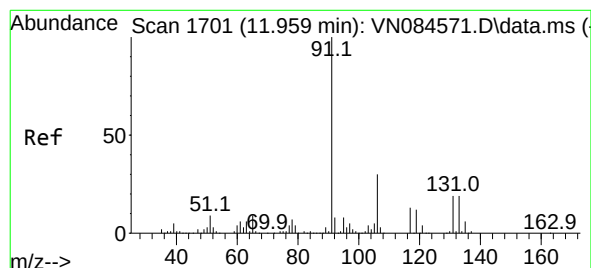
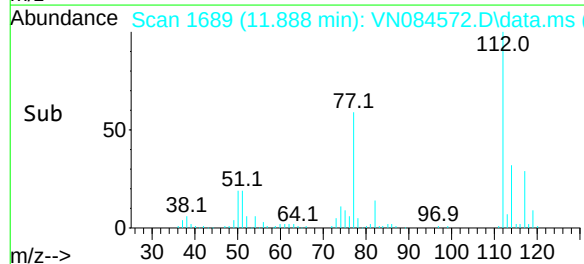
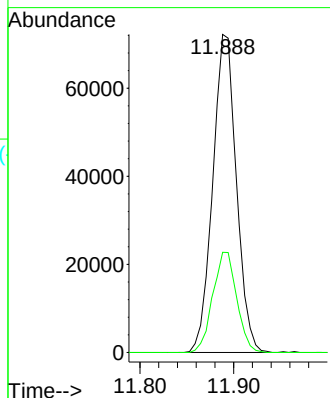
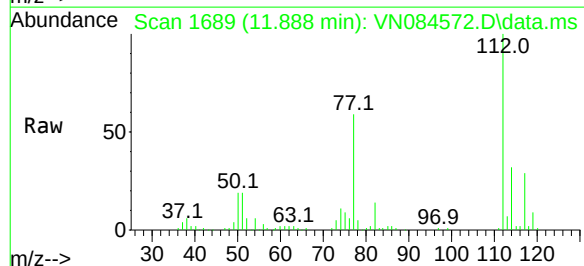
Ion Ratio Lower Upper

112 100

114 31.5 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#66

1,1,1,2-Tetrachloroethane

Concen: 20.125 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

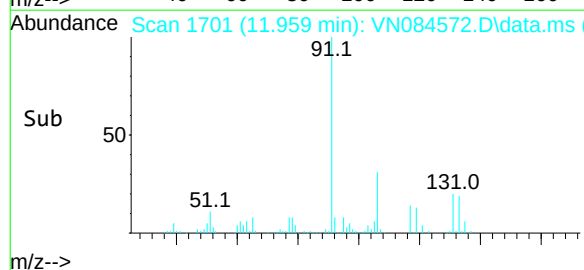
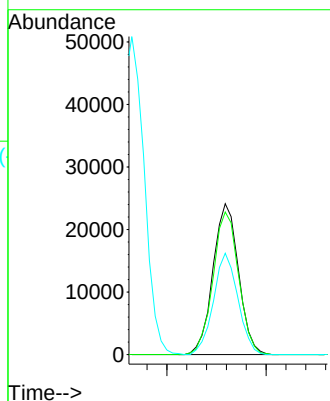
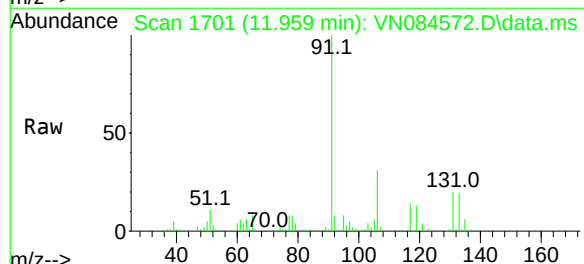
Tgt Ion:131 Resp: 43201

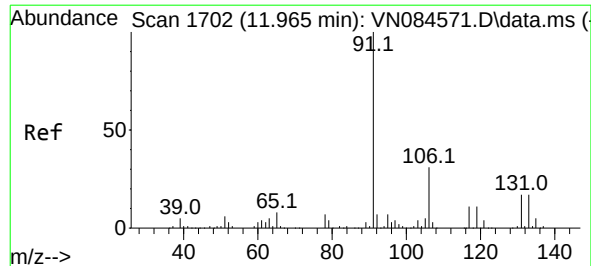
Ion Ratio Lower Upper

131 100

133 94.6 47.9 143.7

119 64.3 32.8 98.3





#67

Ethyl Benzene

Concen: 20.651 ug/l

RT: 11.965 min Scan# 17

Delta R.T. 0.006 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 212737

Ion Ratio Lower Upper

91 100

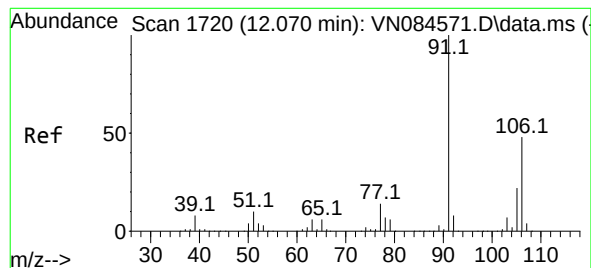
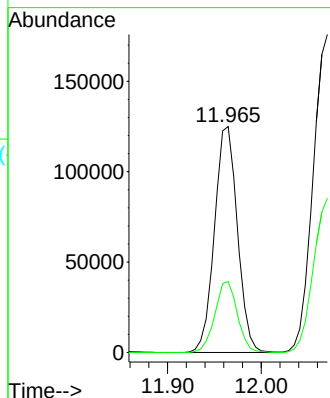
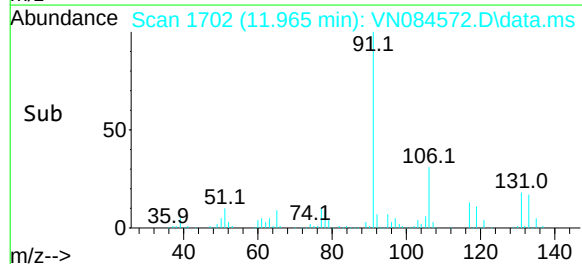
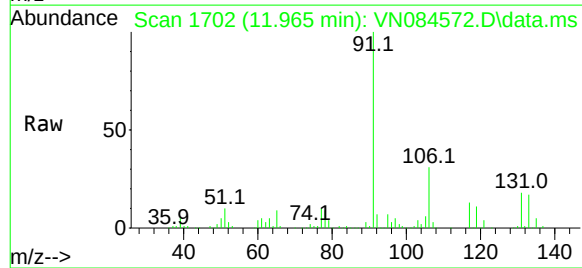
106 31.4 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#68

m/p-Xylenes

Concen: 41.732 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN084572.D

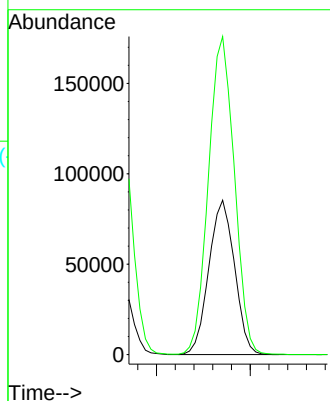
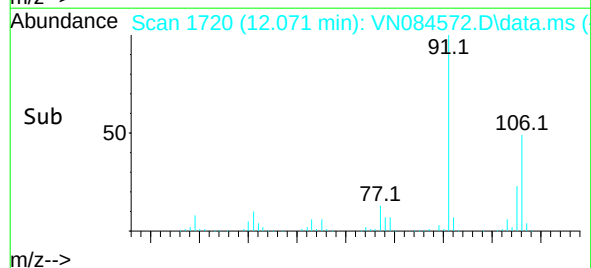
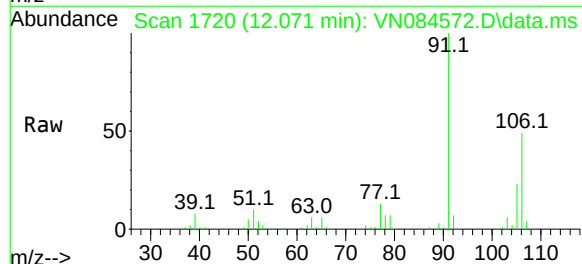
Acq: 30 Oct 2024 12:33

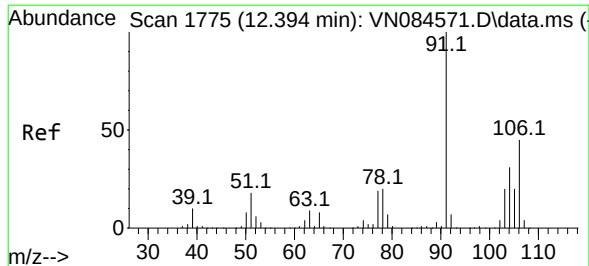
Tgt Ion:106 Resp: 162754

Ion Ratio Lower Upper

106 100

91 207.9 167.1 250.7





#69

o-Xylene

Concen: 21.214 ug/l

RT: 12.400 min Scan# 1775

Delta R.T. 0.006 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:106 Resp: 77396

Ion Ratio Lower Upper

106 100

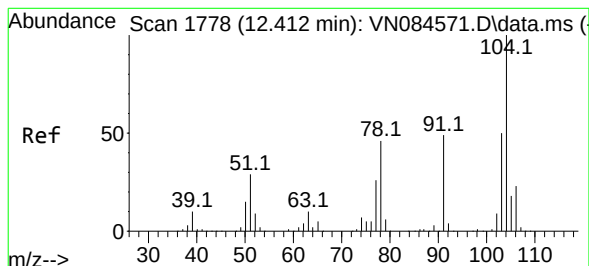
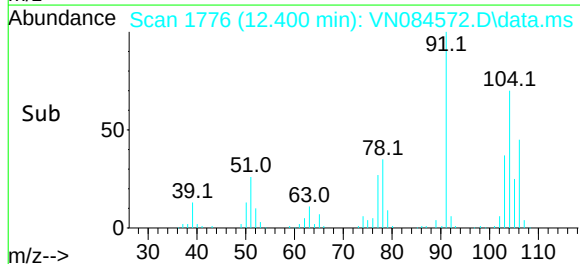
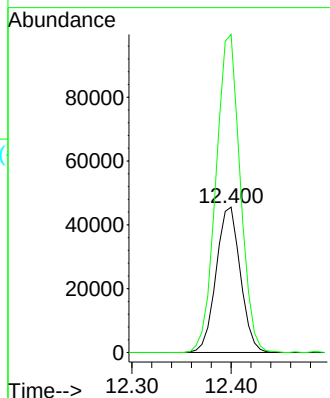
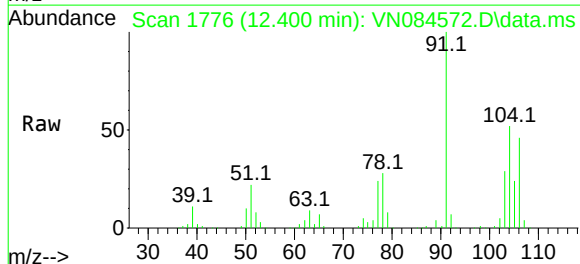
91 219.2 110.2 330.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#70

Styrene

Concen: 20.907 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

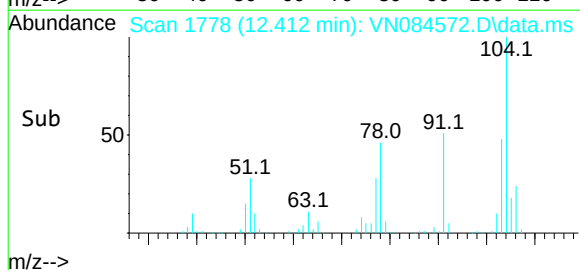
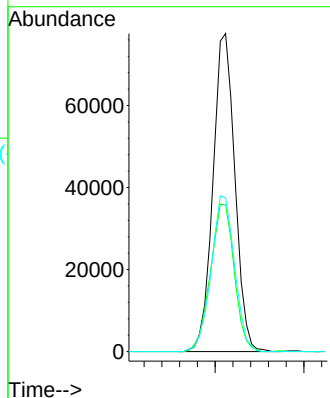
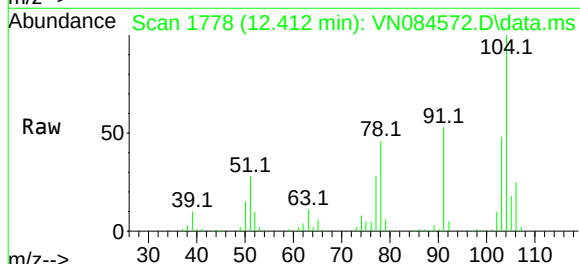
Tgt Ion:104 Resp: 133059

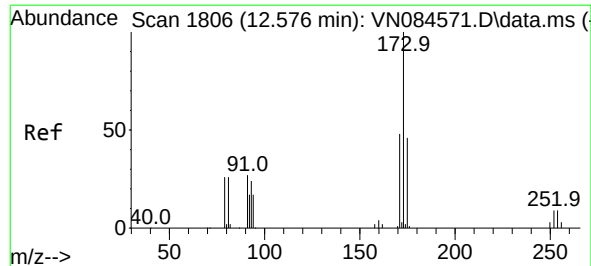
Ion Ratio Lower Upper

104 100

78 50.1 42.7 64.1

103 52.2 43.6 65.4





#71

Bromoform

Concen: 20.369 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

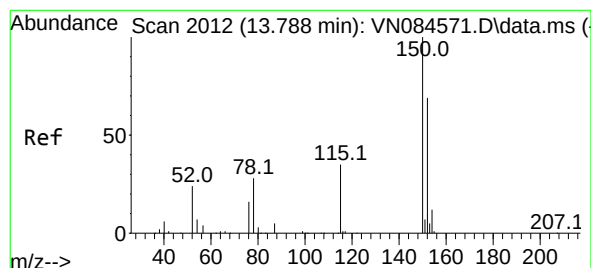
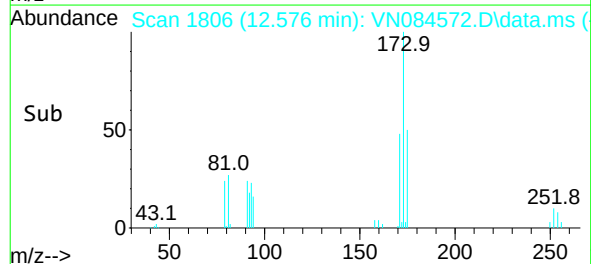
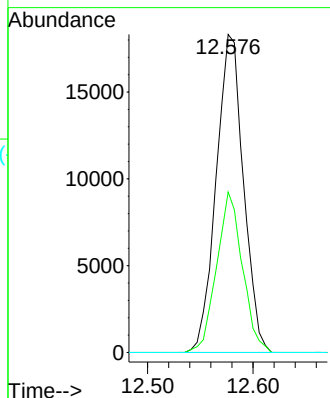
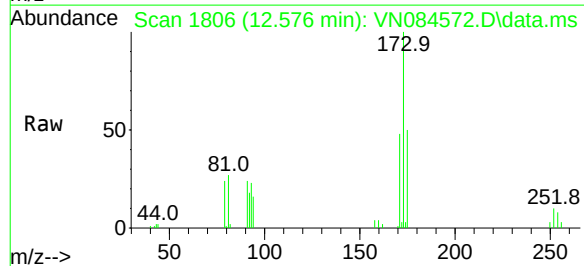
VSTDIC020

Tgt Ion:	173	Resp:	32901
Ion Ratio	Lower	Upper	
173	100		
175	47.7	23.5	70.6
254	0.0	0.0	0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

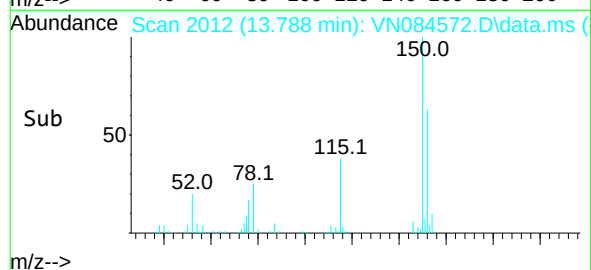
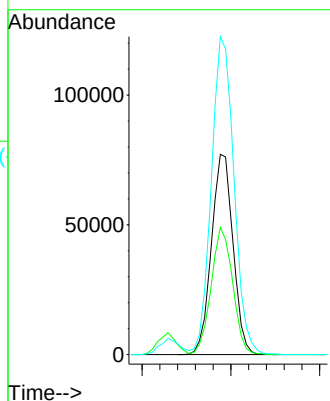
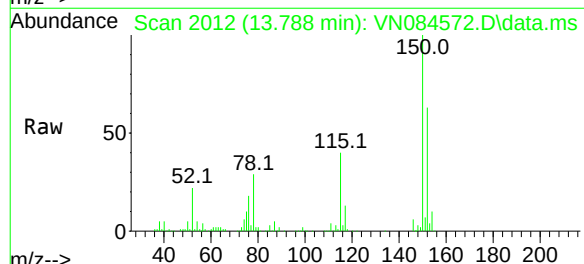
RT: 13.788 min Scan# 2012

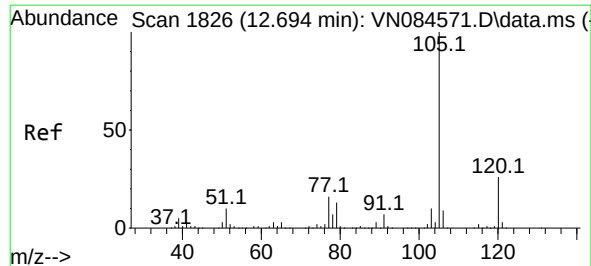
Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Tgt Ion:	152	Resp:	130374
Ion Ratio	Lower	Upper	
152	100		
115	63.0	31.3	93.9
150	166.7	0.0	349.8





#73

Isopropylbenzene

Concen: 21.127 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN084572.D

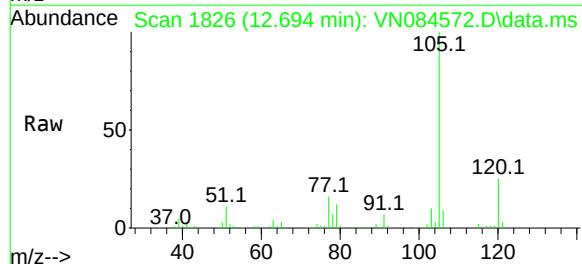
Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020



Tgt Ion: 105 Resp: 193023

Ion Ratio Lower Upper

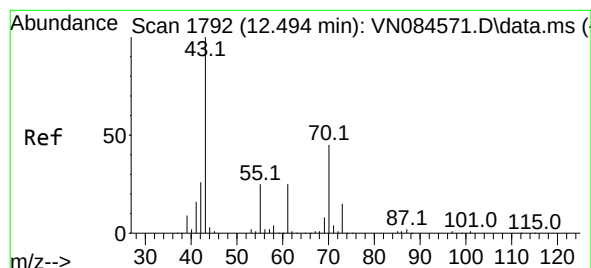
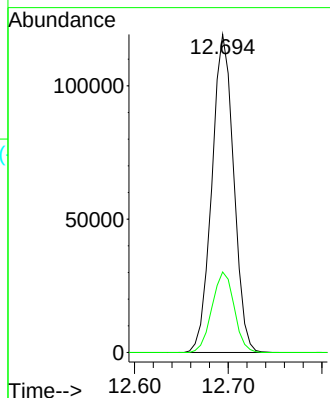
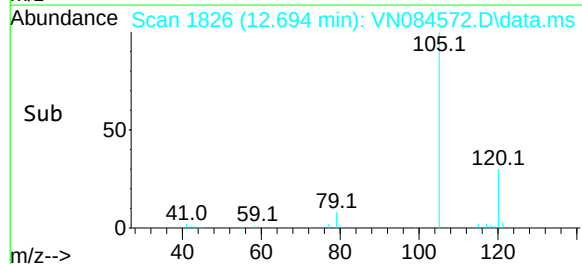
105 100

120 25.7 12.9 38.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#74

N-ethyl acetate

Concen: 20.815 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Tgt Ion: 43 Resp: 80939

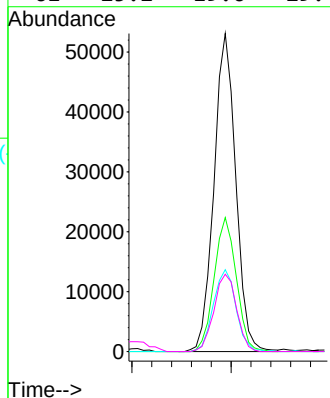
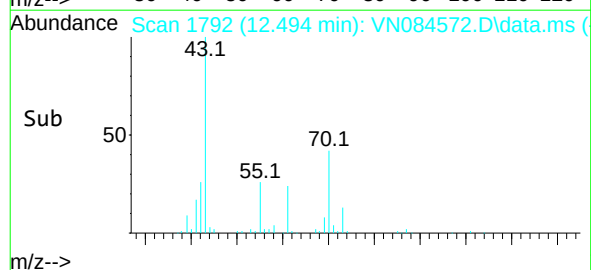
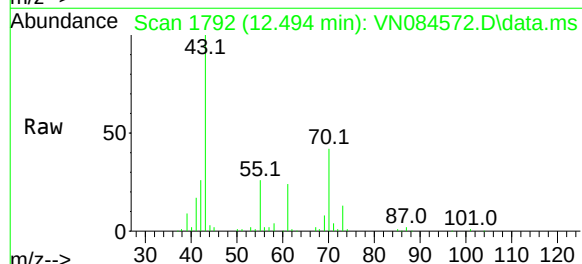
Ion Ratio Lower Upper

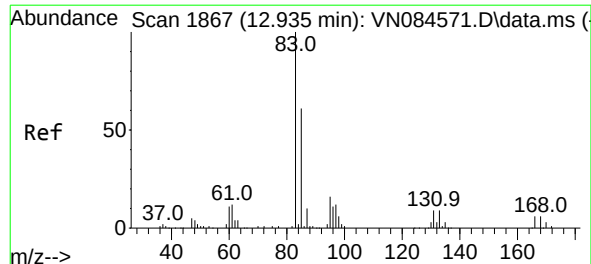
43 100

70 42.8 34.4 51.6

55 26.8 19.6 29.4

61 25.2 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 19.886 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

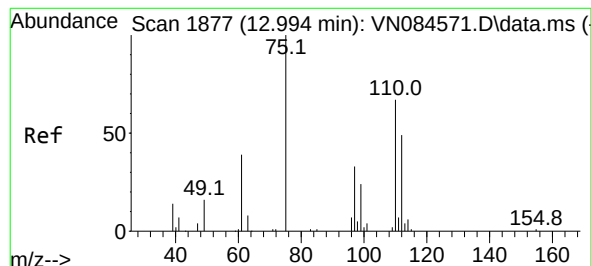
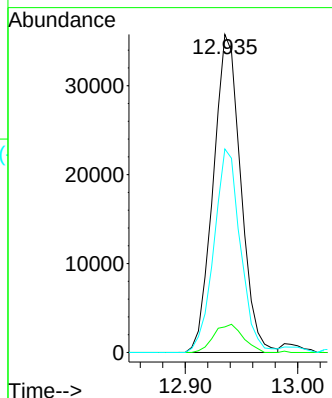
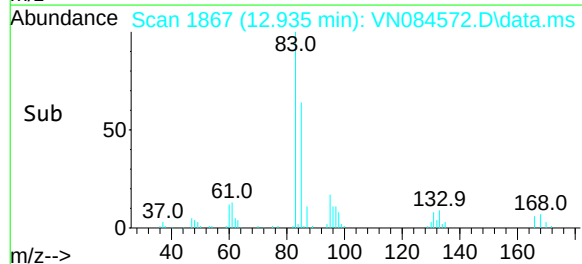
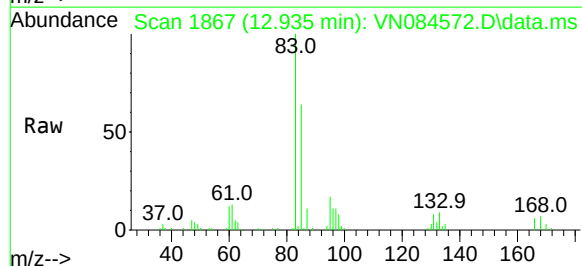
ClientSampleId :

VSTDIC020

Tgt Ion:	83	Resp:	60645
Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.9	14.7
85	61.8	31.9	95.7

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#76

1,2,3-Trichloropropane

Concen: 19.414 ug/l m

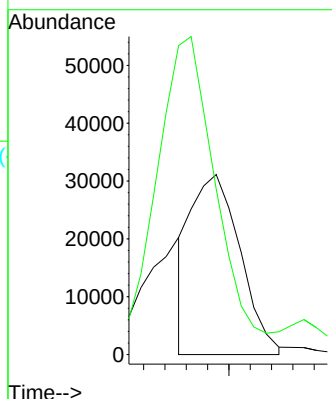
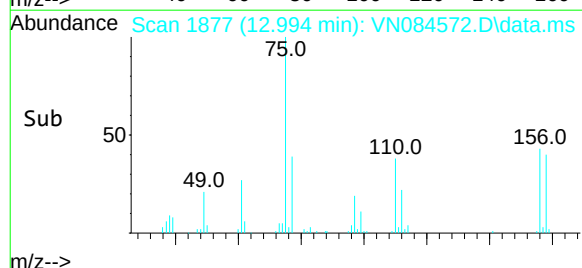
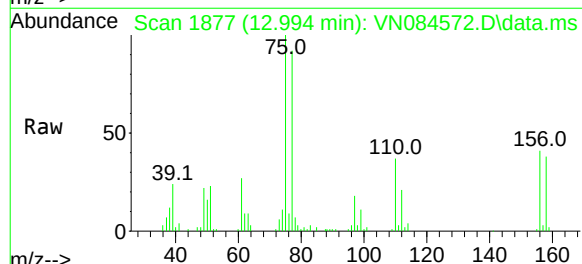
RT: 12.994 min Scan# 1877

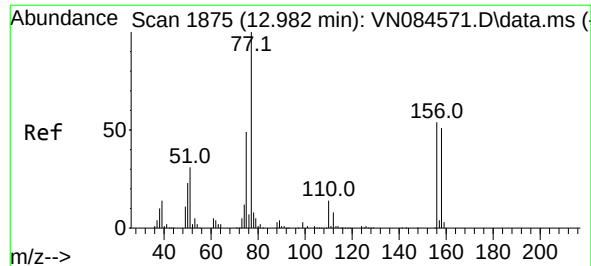
Delta R.T. 0.006 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Tgt Ion:	75	Resp:	49947
Ion	Ratio	Lower	Upper
75	100		
77	215.5	96.9	290.7





#77

Bromobenzene

Concen: 19.550 ug/l

RT: 12.976 min Scan# 1875

Delta R.T. -0.006 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

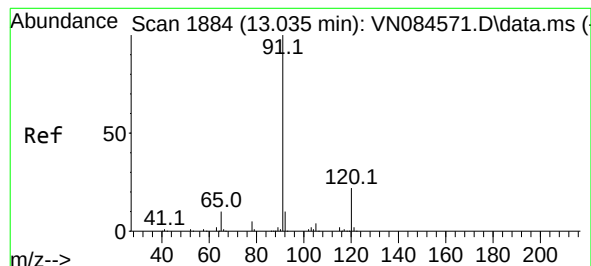
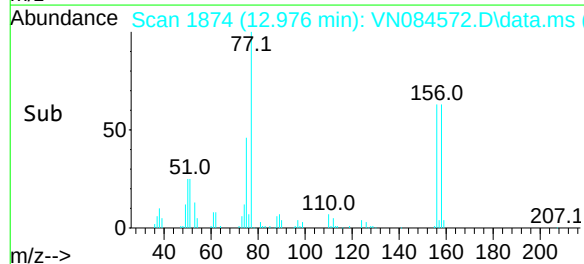
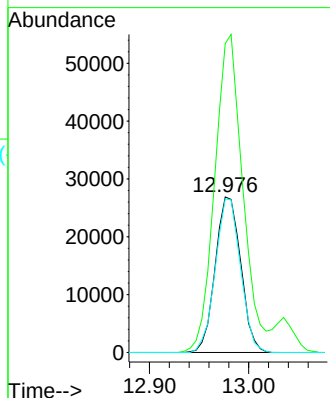
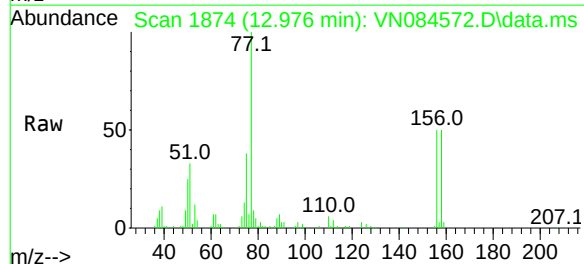
VSTDICC020

Tgt Ion:	156	Resp:	48017
Ion Ratio	Lower	Upper	
156	100		
77	224.2	115.1	345.3
158	97.5	48.9	146.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#78

n-propylbenzene

Concen: 21.024 ug/l

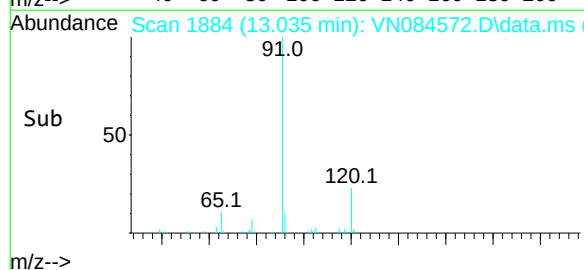
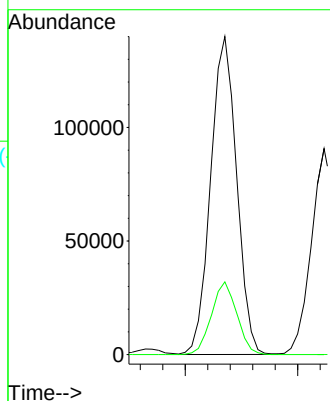
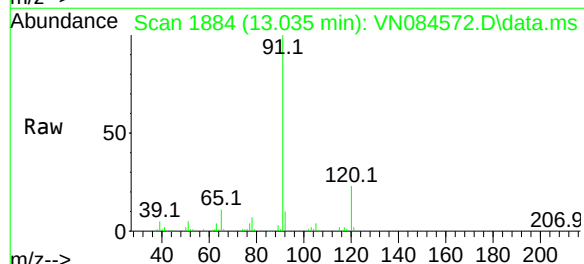
RT: 13.035 min Scan# 1884

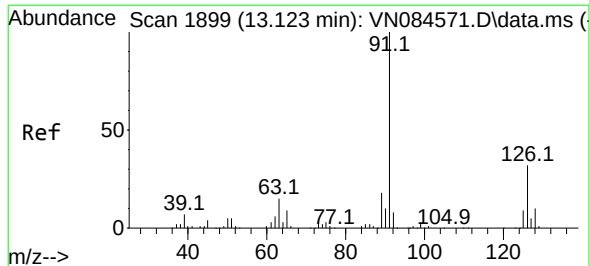
Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Tgt Ion:	91	Resp:	225085
Ion Ratio	Lower	Upper	
91	100		
120	22.3	10.8	32.4





#79

2-Chlorotoluene

Concen: 21.233 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 148533

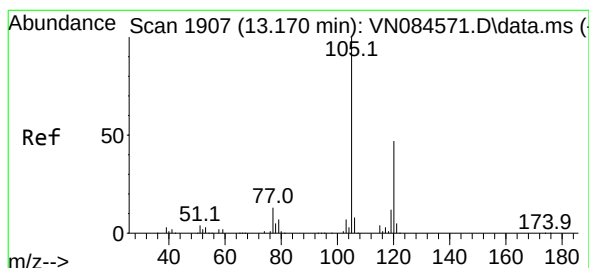
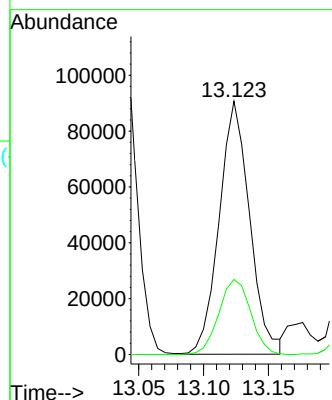
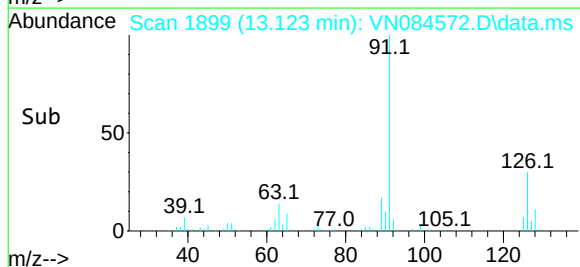
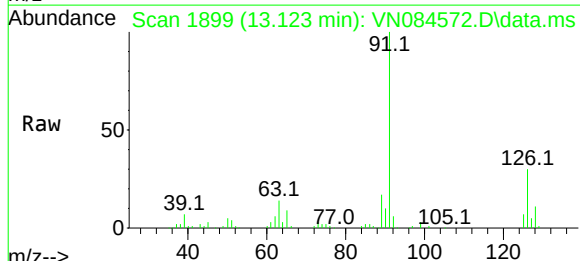
Ion Ratio Lower Upper

91 100

126 30.8 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#80

1,3,5-Trimethylbenzene

Concen: 21.343 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN084572.D

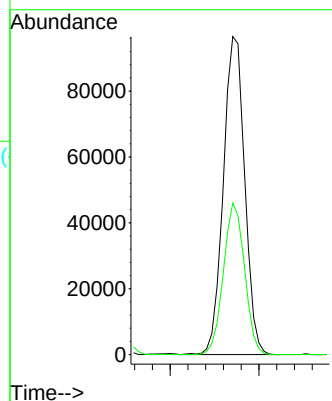
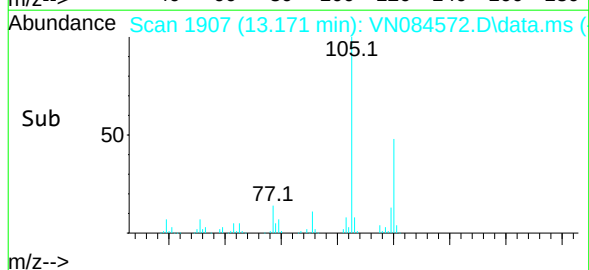
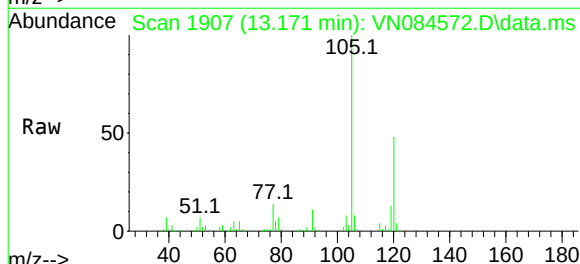
Acq: 30 Oct 2024 12:33

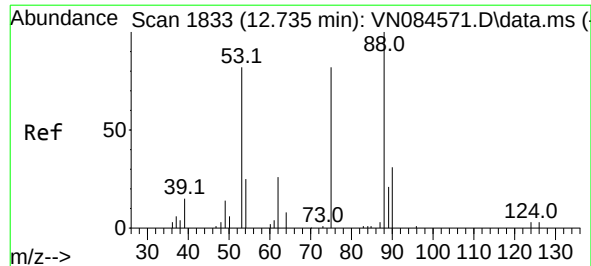
Tgt Ion:105 Resp: 161619

Ion Ratio Lower Upper

105 100

120 47.1 23.7 71.1





#81

trans-1,4-Dichloro-2-butene

Concen: 20.070 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN084572.D

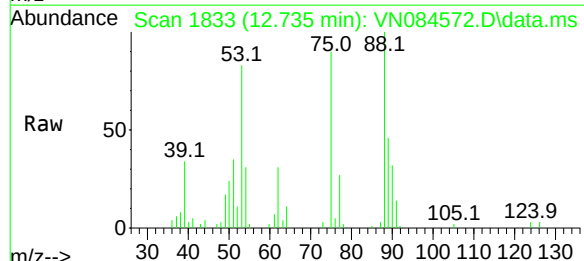
Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

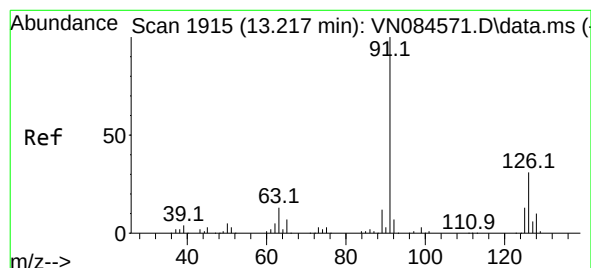
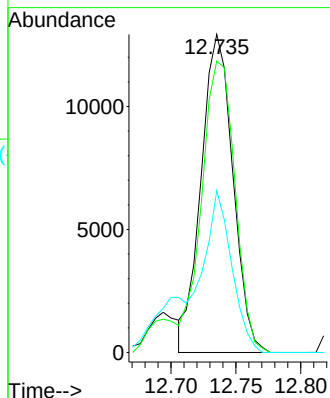
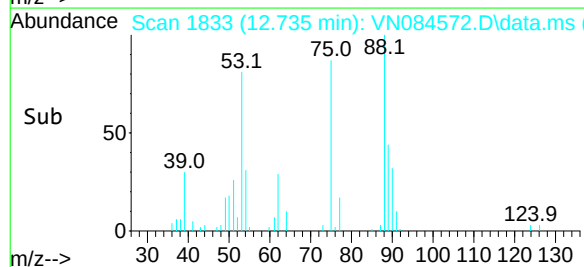
VSTDIC020



Tgt Ion:	75	Resp:	22047
Ion	Ratio	Lower	Upper
75	100		
53	106.0	78.0	117.0
89	64.0	35.5	53.3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#82

4-Chlorotoluene

Concen: 20.102 ug/l

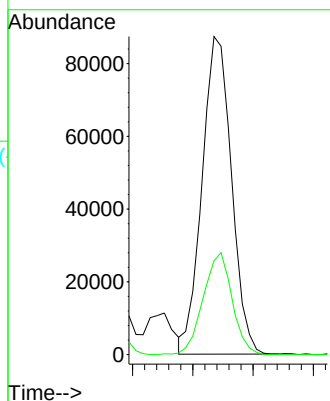
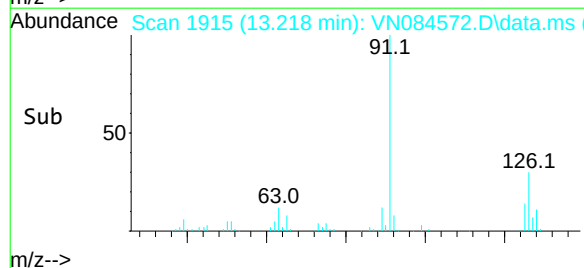
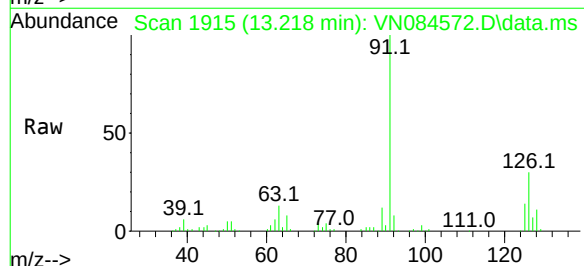
RT: 13.218 min Scan# 1915

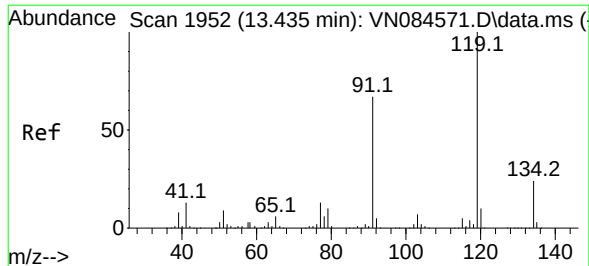
Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Tgt Ion:	91	Resp:	147989
Ion	Ratio	Lower	Upper
91	100		
126	31.5	15.7	47.1





#83

tert-Butylbenzene

Concen: 22.033 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN084572.D

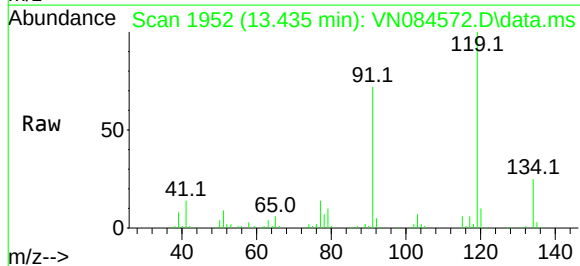
Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

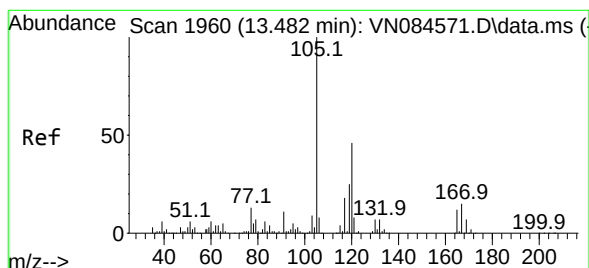
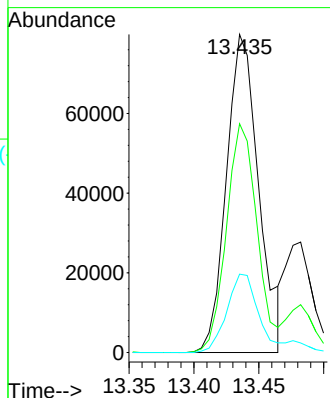
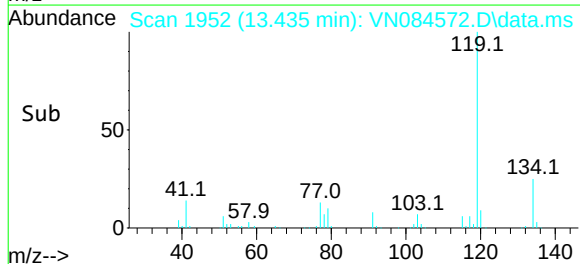


Tgt Ion:	119	Resp:	138079
Ion	Ratio	Lower	Upper
119	100		
91	68.5	34.1	102.3
134	26.4	12.8	38.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#84

1,2,4-Trimethylbenzene

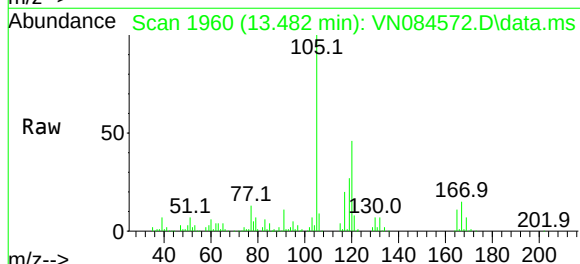
Concen: 21.783 ug/l

RT: 13.482 min Scan# 1960

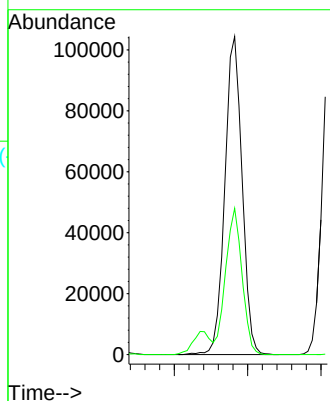
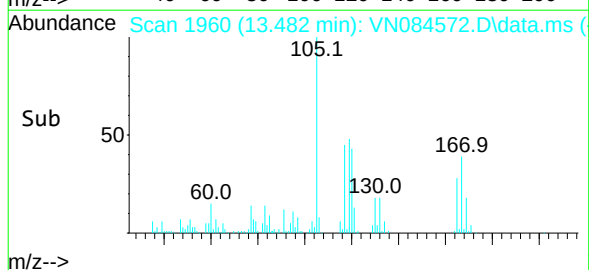
Delta R.T. 0.000 min

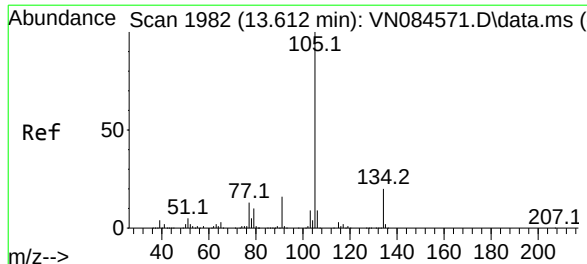
Lab File: VN084572.D

Acq: 30 Oct 2024 12:33



Tgt Ion:	105	Resp:	170246
Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.3	66.8





#85

sec-Butylbenzene

Concen: 21.255 ug/l

RT: 13.618 min Scan# 1982

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:105 Resp: 188158

Ion Ratio Lower Upper

105 100

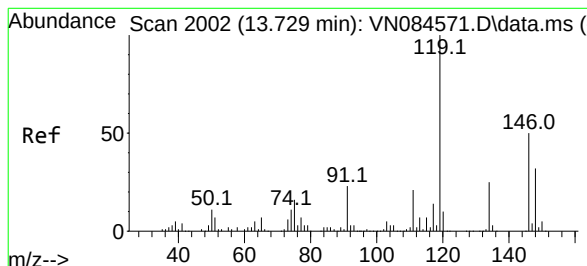
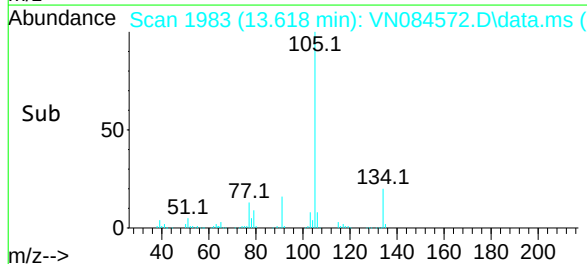
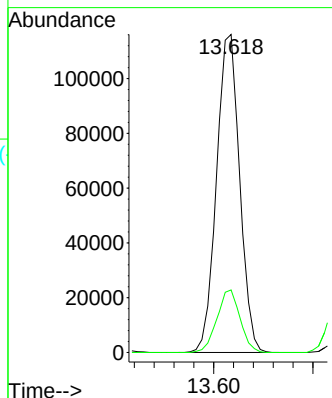
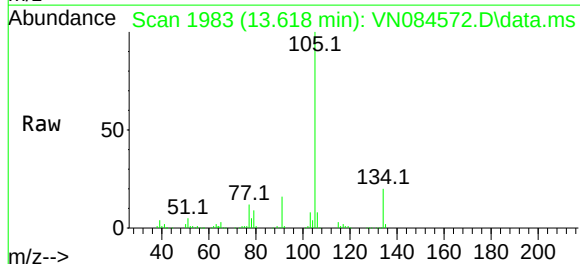
134 19.6 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#86

p-Isopropyltoluene

Concen: 21.569 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

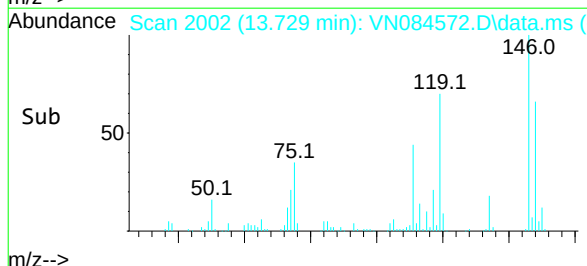
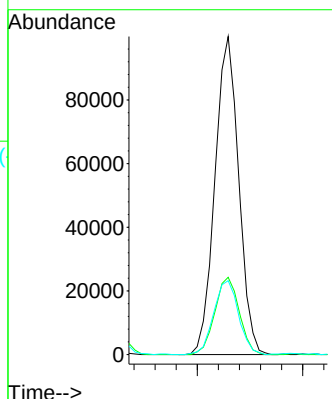
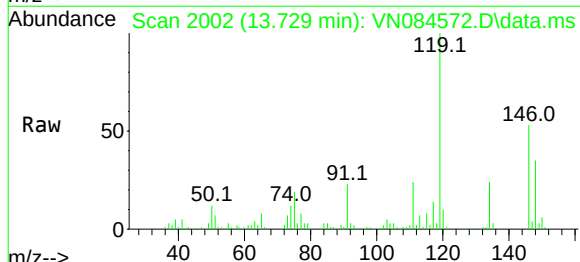
Tgt Ion:119 Resp: 156598

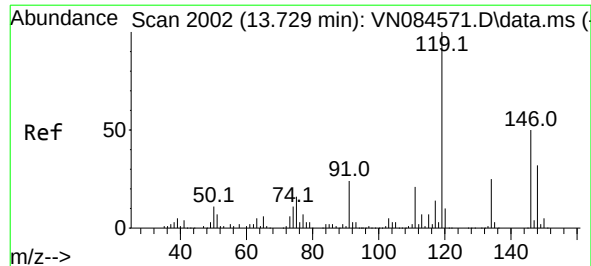
Ion Ratio Lower Upper

119 100

134 24.9 12.6 37.8

91 24.3 12.4 37.2





#87

1,3-Dichlorobenzene

Concen: 19.258 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

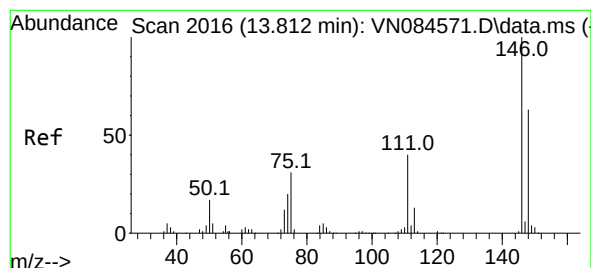
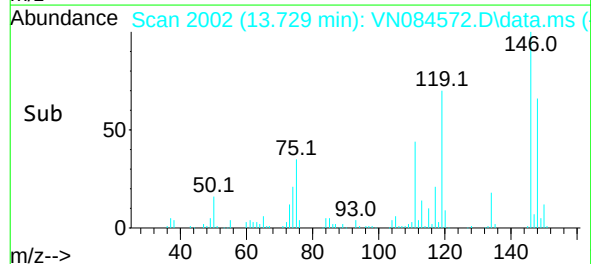
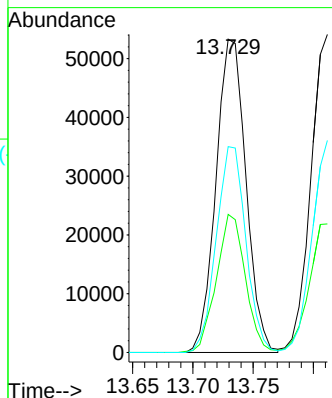
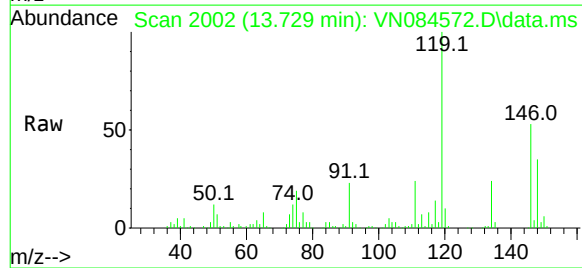
VSTDICC020

Tgt Ion:	146	Resp:	92310
Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.8	65.3
148	64.8	31.9	95.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#88

1,4-Dichlorobenzene

Concen: 20.458 ug/l

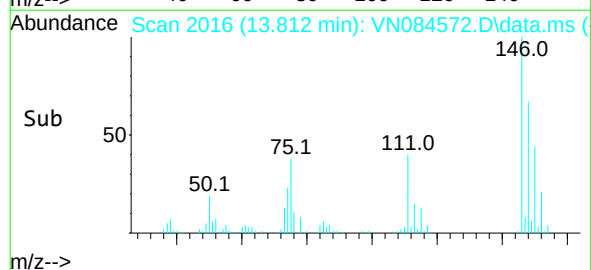
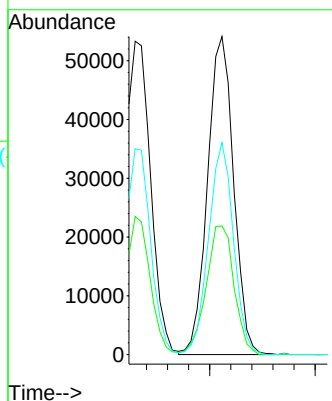
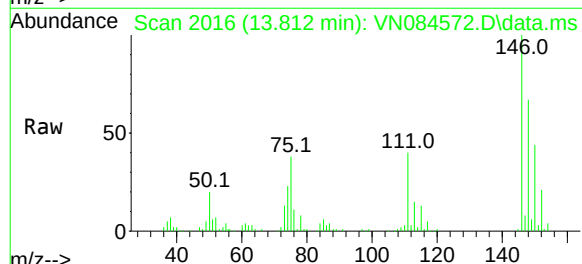
RT: 13.812 min Scan# 2016

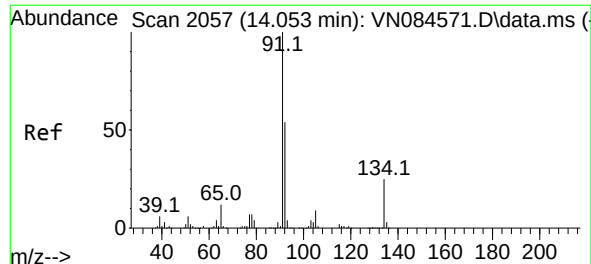
Delta R.T. -0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Tgt Ion:	146	Resp:	92940
Ion	Ratio	Lower	Upper
146	100		
111	43.2	21.2	63.6
148	63.9	31.9	95.9





#89

n-Butylbenzene

Concen: 20.139 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

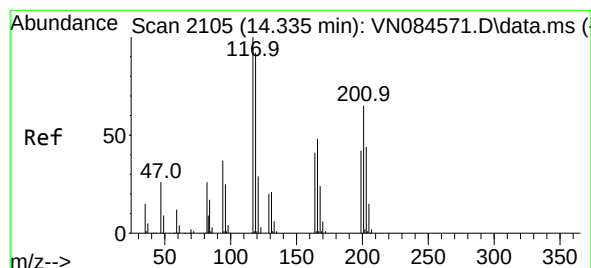
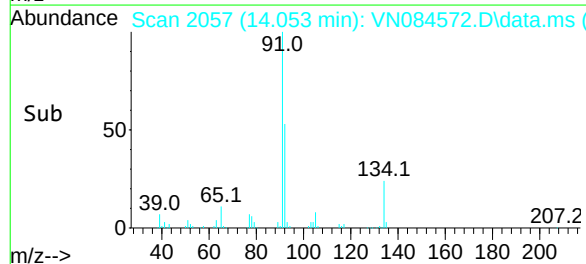
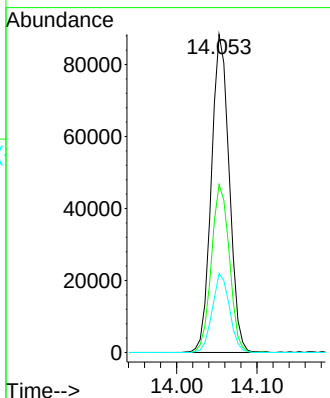
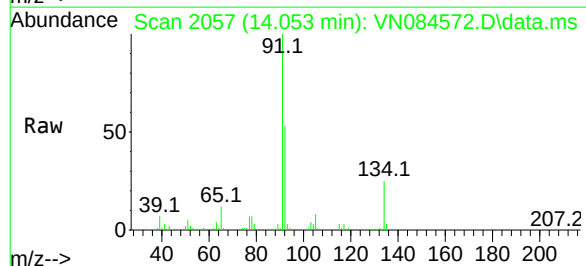
VSTDICC020

Tgt Ion:	91	Resp:	136771
Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.6	79.7
134	24.0	12.3	36.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#90

Hexachloroethane

Concen: 19.887 ug/l

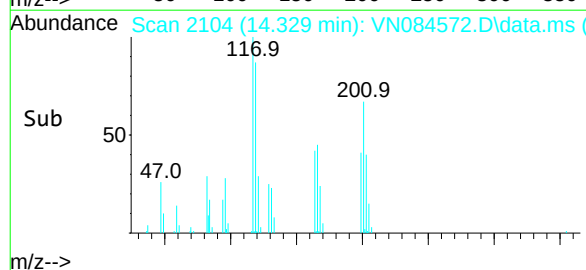
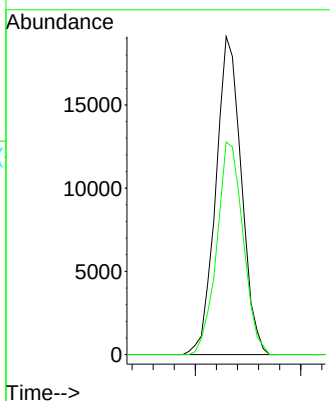
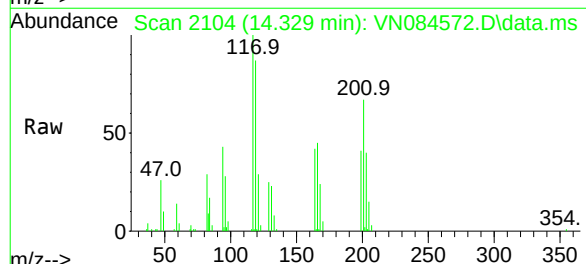
RT: 14.329 min Scan# 2104

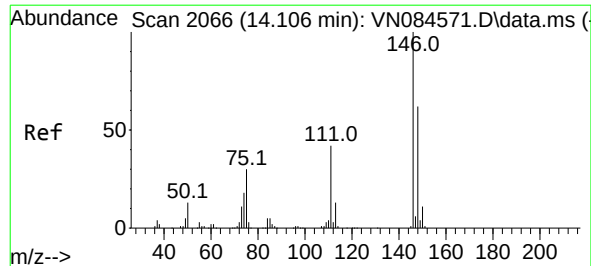
Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Tgt Ion:	117	Resp:	32199
Ion	Ratio	Lower	Upper
117	100		
201	68.7	34.4	103.2





#91

1,2-Dichlorobenzene

Concen: 19.787 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

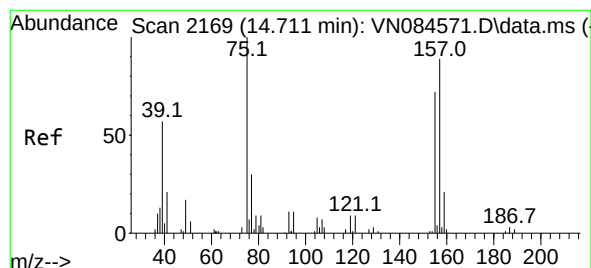
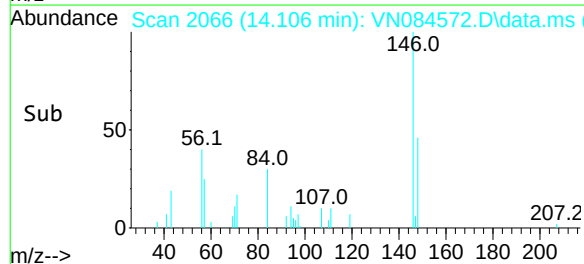
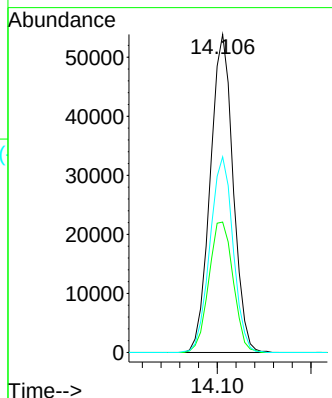
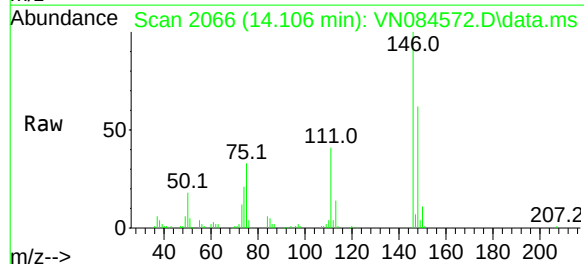
VSTDICC020

Tgt Ion:	146	Resp:	91138
Ion	Ratio	Lower	Upper
146	100		
111	43.7	22.0	66.0
148	62.3	32.1	96.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 19.362 ug/l

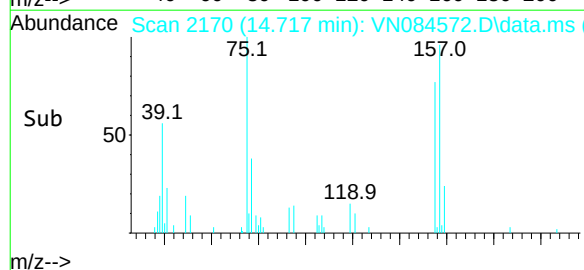
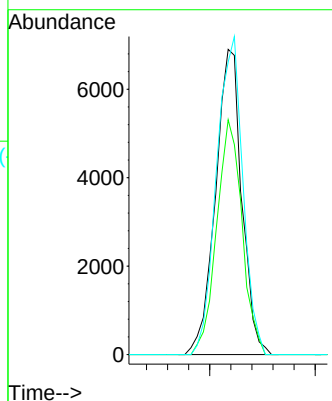
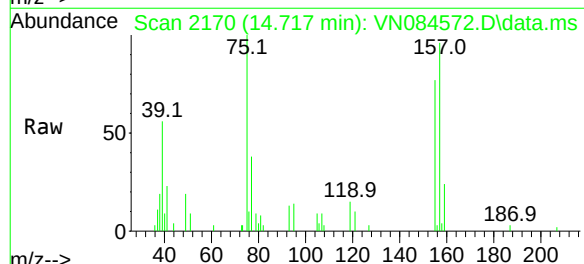
RT: 14.717 min Scan# 2170

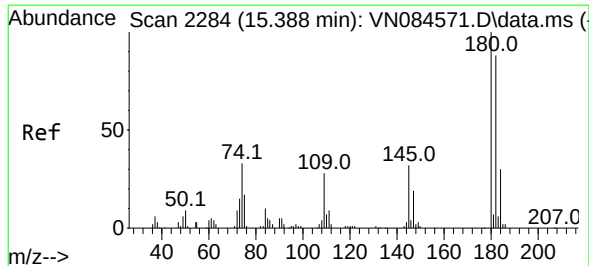
Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Tgt Ion:	75	Resp:	11962
Ion	Ratio	Lower	Upper
75	100		
155	74.1	38.1	114.5
157	103.8	49.6	149.0





#93

1,2,4-Trichlorobenzene

Concen: 18.523 ug/l

RT: 15.394 min Scan# 2284

Delta R.T. 0.006 min

Lab File: VN084572.D

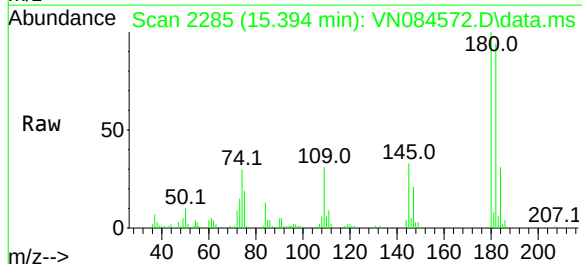
Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

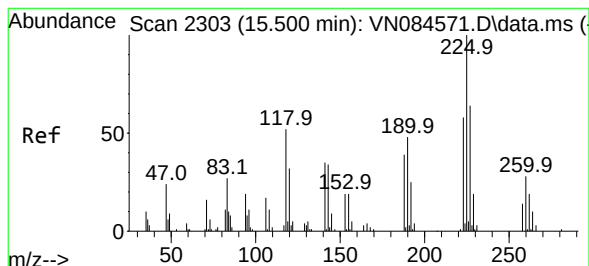
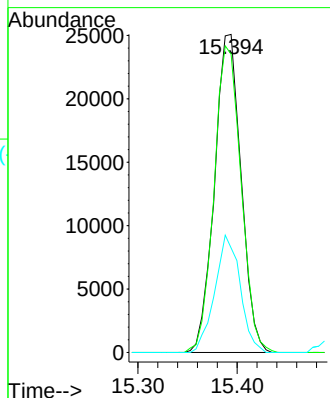
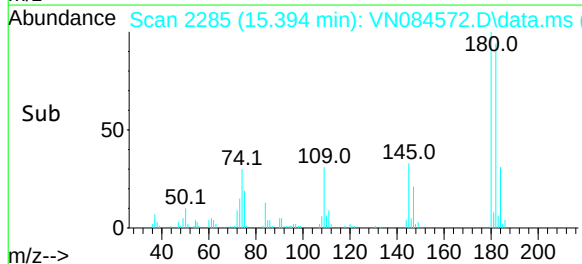


Tgt Ion:	180	Resp:	46698
Ion Ratio	Lower	Upper	
180	100		
182	97.9	47.0	141.0
145	35.2	16.4	49.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#94

Hexachlorobutadiene

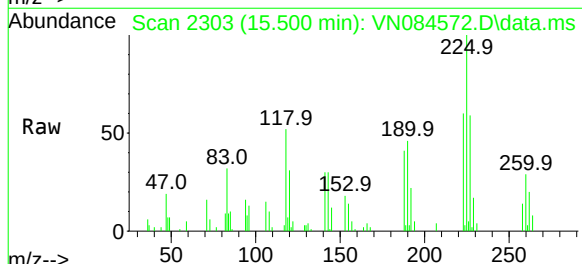
Concen: 20.066 ug/l

RT: 15.500 min Scan# 2303

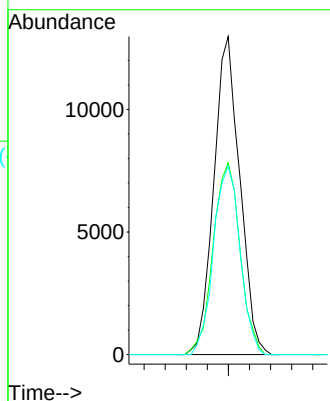
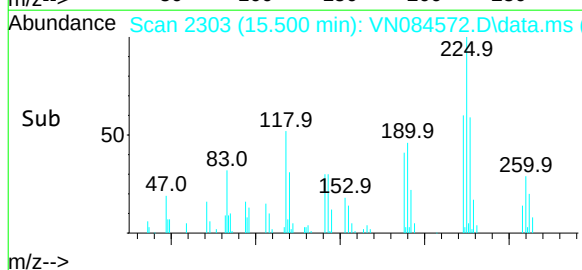
Delta R.T. -0.000 min

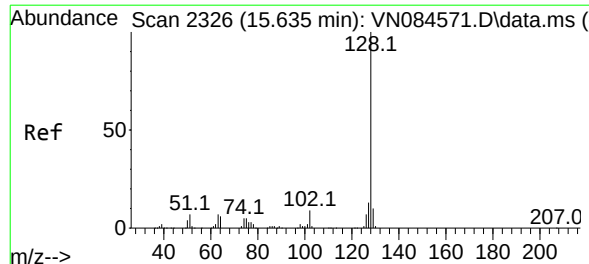
Lab File: VN084572.D

Acq: 30 Oct 2024 12:33



Tgt Ion:	225	Resp:	22216
Ion Ratio	Lower	Upper	
225	100		
223	62.5	32.4	97.2
227	60.4	32.4	97.0





#95

Naphthalene

Concen: 20.404 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:128 Resp: 153972

Ion Ratio Lower Upper

128 100

127 13.2 10.5 15.7

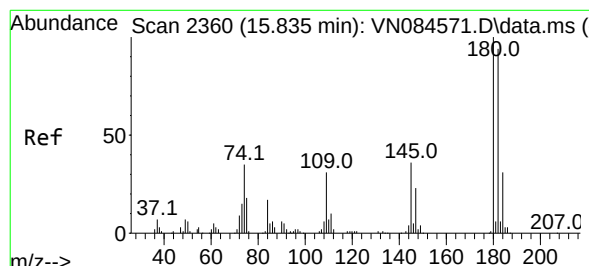
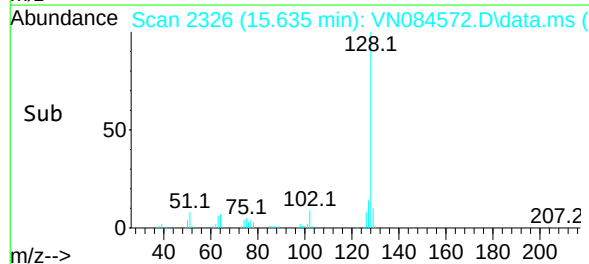
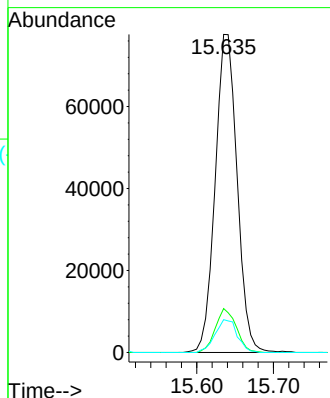
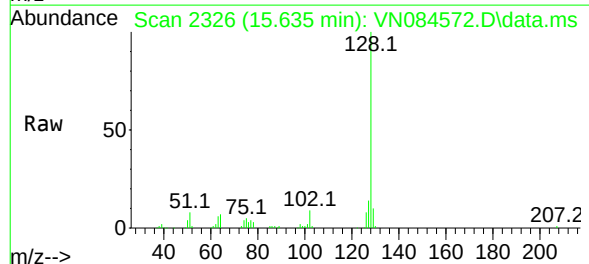
129 10.5 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#96

1,2,3-Trichlorobenzene

Concen: 20.308 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN084572.D

Acq: 30 Oct 2024 12:33

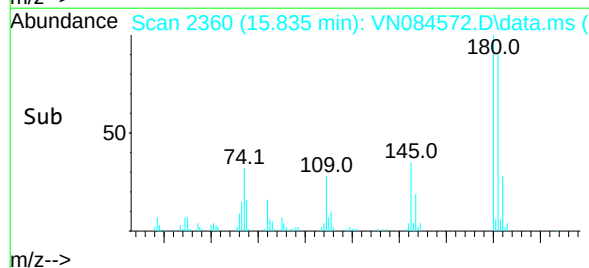
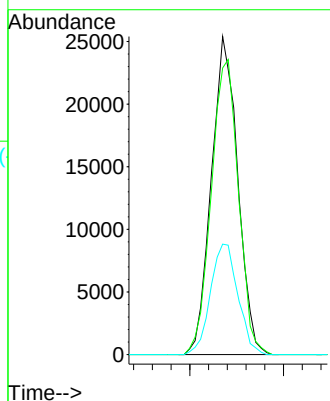
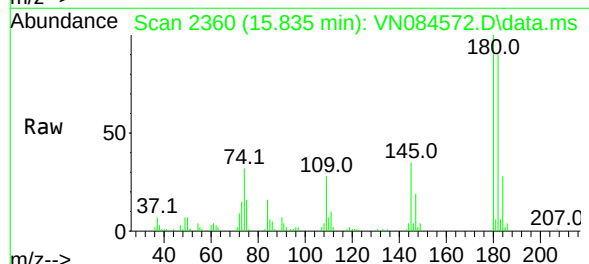
Tgt Ion:180 Resp: 49699

Ion Ratio Lower Upper

180 100

182 95.6 48.2 144.6

145 36.2 17.3 51.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084573.D
 Acq On : 30 Oct 2024 12:57
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:18:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	179863	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	312244	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	270408	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	127178	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	25986	10.003	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	20.000%#
35) Dibromofluoromethane	8.159	113	20969	9.921	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	19.840%#
50) Toluene-d8	10.565	98	76892	9.876	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	19.760%#
62) 4-Bromofluorobenzene	12.847	95	28191	9.689	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	19.380%#

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	21501	10.399	ug/l	96
3) Chloromethane	2.359	50	31342	10.950	ug/l	98
4) Vinyl Chloride	2.512	62	22896	10.295	ug/l	93
5) Bromomethane	2.901	94	12071	10.245	ug/l	95
6) Chloroethane	3.059	64	15315	10.010	ug/l #	83
7) Trichlorofluoromethane	3.459	101	36747	10.031	ug/l	99
8) Diethyl Ether	3.953	74	13090	10.129	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.353	101	21028	10.158	ug/l	98
10) Methyl Iodide	4.577	142	28795	10.408	ug/l	97
11) Tert butyl alcohol	5.542	59	17899	52.198	ug/l #	85
12) 1,1-Dichloroethene	4.324	96	20669	10.091	ug/l	87
13) Acrolein	4.177	56	17284	50.547	ug/l	99
14) Allyl chloride	5.012	41	33287	10.021	ug/l	93
15) Acrylonitrile	5.718	53	50731	51.104	ug/l	98
16) Acetone	4.430	43	40100	51.168	ug/l	93
17) Carbon Disulfide	4.695	76	61652	9.774	ug/l	97
18) Methyl Acetate	5.030	43	37538	10.544	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	64007	10.195	ug/l	97
20) Methylene Chloride	5.265	84	23684	10.366	ug/l	94
21) trans-1,2-Dichloroethene	5.771	96	21581	10.261	ug/l	84
22) Diisopropyl ether	6.671	45	68672	10.404	ug/l #	97
23) Vinyl Acetate	6.600	43	233407	51.279	ug/l	99
24) 1,1-Dichloroethane	6.565	63	40556	10.234	ug/l #	95
25) 2-Butanone	7.483	43	60876	50.229	ug/l	96
26) 2,2-Dichloropropane	7.483	77	35189	10.203	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	24626	10.028	ug/l	99
28) Bromochloromethane	7.806	49	14918	9.449	ug/l #	15
29) Tetrahydrofuran	7.841	42	42072	52.326	ug/l	99
30) Chloroform	7.965	83	41496	10.288	ug/l	97
31) Cyclohexane	8.247	56	37514	10.460	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	38612	10.518	ug/l	94
36) 1,1-Dichloropropene	8.371	75	29218	9.968	ug/l	99
37) Ethyl Acetate	7.559	43	25249	9.494	ug/l	96
38) Carbon Tetrachloride	8.359	117	34214	10.443	ug/l	95
39) Methylcyclohexane	9.600	83	30390	10.191	ug/l	96
40) Benzene	8.606	78	94121	9.999	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084573.D
 Acq On : 30 Oct 2024 12:57
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:25 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M

Quant Title : SW846 8260

QLast Update : Thu Oct 31 18:18:08 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	14485	10.128	ug/l	96
42) 1,2-Dichloroethane	8.671	62	30752	10.087	ug/l	99
43) Isopropyl Acetate	8.688	43	55871	10.611	ug/l	94
44) Trichloroethene	9.353	130	21099	9.719	ug/l	98
45) 1,2-Dichloropropane	9.618	63	22314	10.105	ug/l	96
46) Dibromomethane	9.706	93	15211	9.762	ug/l	99
47) Bromodichloromethane	9.883	83	32612	9.929	ug/l #	93
48) Methyl methacrylate	9.683	41	20961	10.127	ug/l	98
49) 1,4-Dioxane	9.700	88	7375	201.076	ug/l #	76
51) 4-Methyl-2-Pentanone	10.447	43	130324	51.405	ug/l	99
52) Toluene	10.630	92	56321	10.230	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	33220	9.771	ug/l	95
54) cis-1,3-Dichloropropene	10.312	75	35562	9.883	ug/l	92
55) 1,1,2-Trichloroethane	11.018	97	21367	10.303	ug/l	94
56) Ethyl methacrylate	10.871	69	29804	9.936	ug/l	98
57) 1,3-Dichloropropane	11.165	76	35790	10.056	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	66790	47.583	ug/l	97
59) 2-Hexanone	11.200	43	92772	50.273	ug/l	100
60) Dibromochloromethane	11.359	129	24541	10.383	ug/l	97
61) 1,2-Dibromoethane	11.471	107	20895	9.839	ug/l	97
64) Tetrachloroethene	11.100	164	18777	10.439	ug/l	94
65) Chlorobenzene	11.888	112	60746	10.041	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	21080	10.018	ug/l	98
67) Ethyl Benzene	11.965	91	101653	10.067	ug/l	99
68) m/p-Xylenes	12.071	106	75857	19.842	ug/l	100
69) o-Xylene	12.394	106	36696	10.261	ug/l	100
70) Styrene	12.412	104	61865	9.916	ug/l	98
71) Bromoform	12.576	173	15630	9.871	ug/l #	95
73) Isopropylbenzene	12.694	105	91683	10.287	ug/l	98
74) N-amyl acetate	12.494	43	38841	10.240	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	30270	10.175	ug/l	97
76) 1,2,3-Trichloropropane	12.994	75	25940m	10.336	ug/l	
77) Bromobenzene	12.982	156	23987	10.012	ug/l	94
78) n-propylbenzene	13.035	91	106518	10.199	ug/l	99
79) 2-Chlorotoluene	13.123	91	68678	10.064	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	77273	10.461	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	11334	10.577	ug/l	96
82) 4-Chlorotoluene	13.218	91	71787	9.996	ug/l	99
83) tert-Butylbenzene	13.435	119	62600	10.240	ug/l	97
84) 1,2,4-Trimethylbenzene	13.482	105	78207	10.258	ug/l	98
85) sec-Butylbenzene	13.612	105	89469	10.361	ug/l	99
86) p-Isopropyltoluene	13.729	119	72307	10.210	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	45832	9.802	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	47483	10.276	ug/l	97
89) n-Butylbenzene	14.053	91	62495	9.433	ug/l	100
90) Hexachloroethane	14.335	117	16100	10.194	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	44055	9.805	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	5744	9.531	ug/l	97
93) 1,2,4-Trichlorobenzene	15.394	180	22413	9.114	ug/l	97
94) Hexachlorobutadiene	15.494	225	10263	9.503	ug/l	97
95) Naphthalene	15.641	128	68919	9.363	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	22303	9.342	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084573.D
Acq On : 30 Oct 2024 12:57
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

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

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

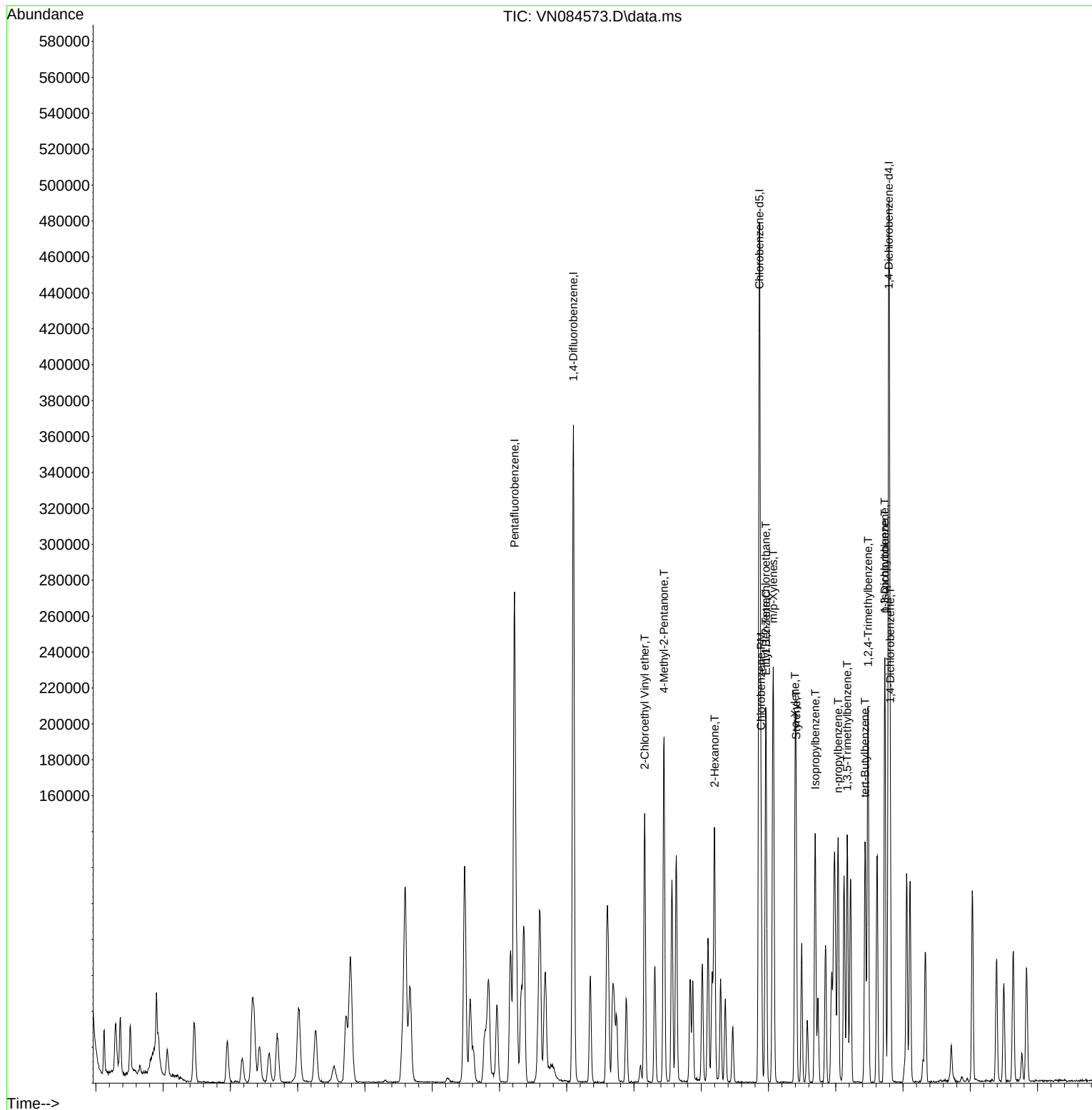
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Data File : VN084573.D
Acq On : 30 Oct 2024 12:57
Operator : JC\MD
Sample : VSTDIC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

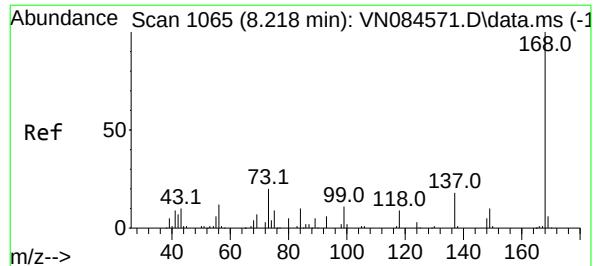
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
Supervised By : Mahesh Dadoda 11/04/2024

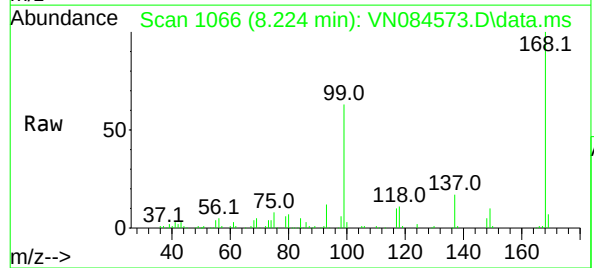
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084573.D
Acq: 30 Oct 2024 12:57

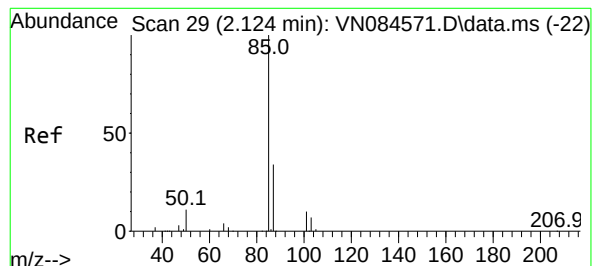
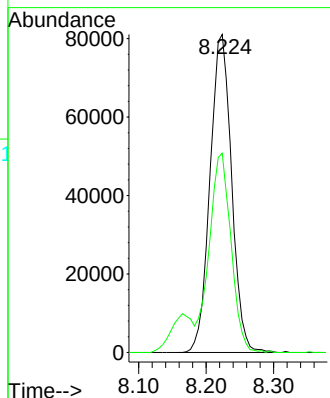
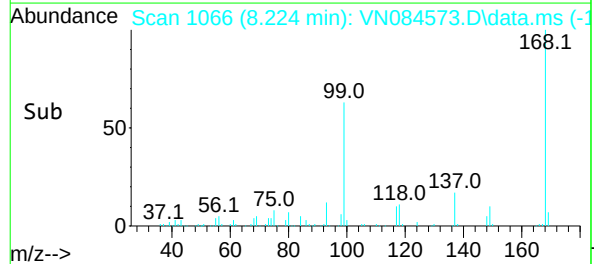
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 168 Resp: 179863
Ion Ratio Lower Upper
168 100
99 62.6 54.2 81.2

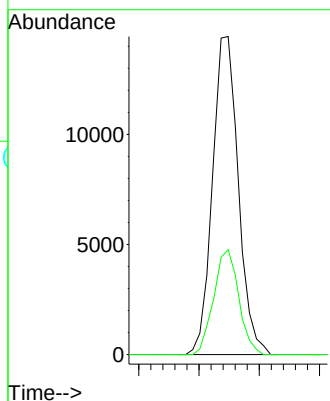
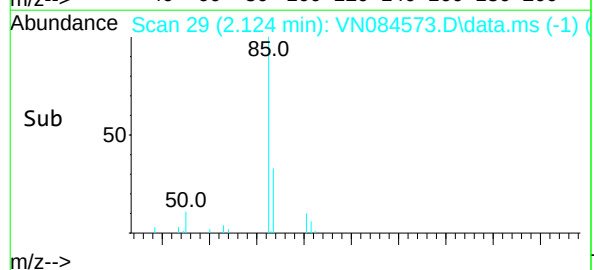
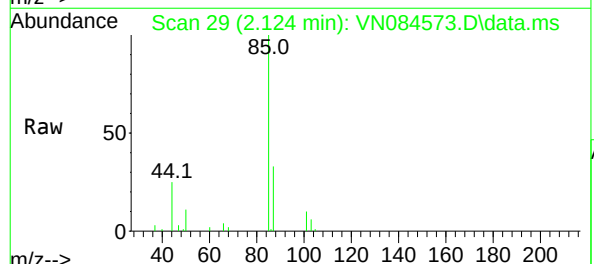
Manual Integrations
APPROVED

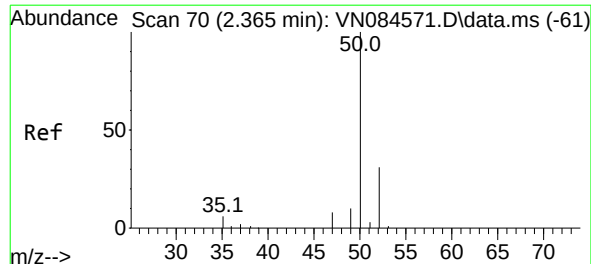
Reviewed By : Semsettin Yesilyurt 11/04/2024
Supervised By : Mahesh Dadoda 11/04/2024



#2
Dichlorodifluoromethane
Concen: 10.399 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN084573.D
Acq: 30 Oct 2024 12:57

Tgt Ion: 85 Resp: 21501
Ion Ratio Lower Upper
85 100
87 33.0 17.6 52.9





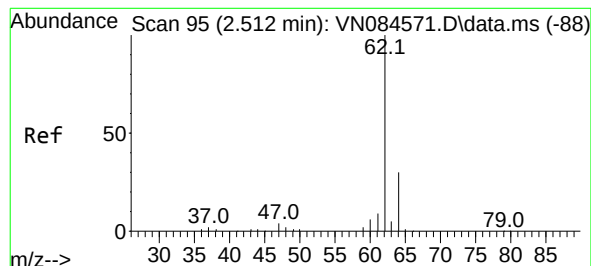
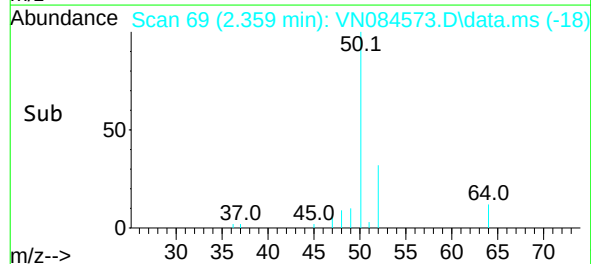
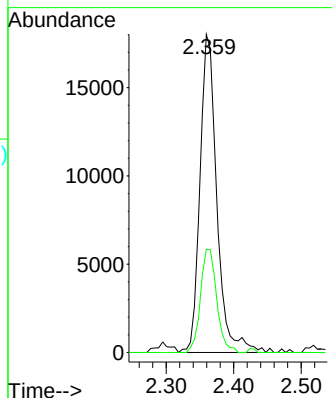
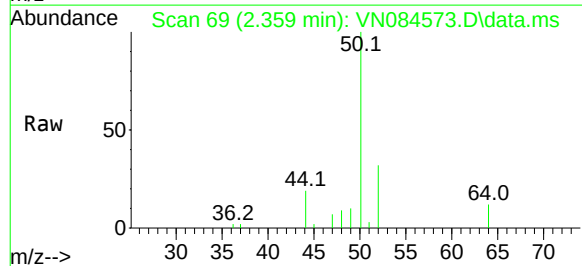
#3
Chloromethane
Concen: 10.950 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN084573.D
Acq: 30 Oct 2024 12:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 50 Resp: 31342
Ion Ratio Lower Upper
50 100
52 32.5 26.8 40.2

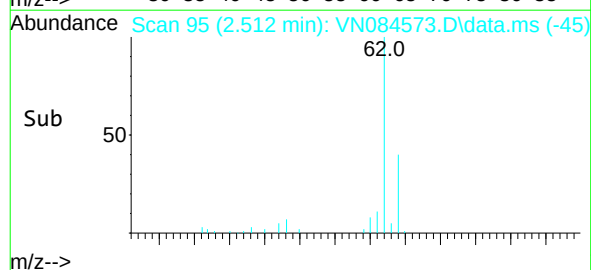
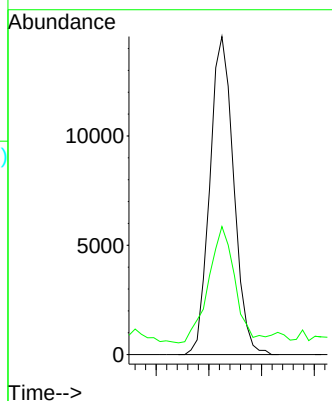
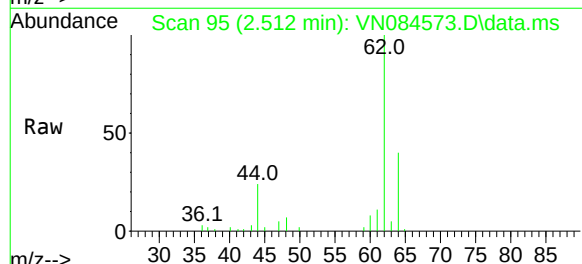
Manual Integrations
APPROVED

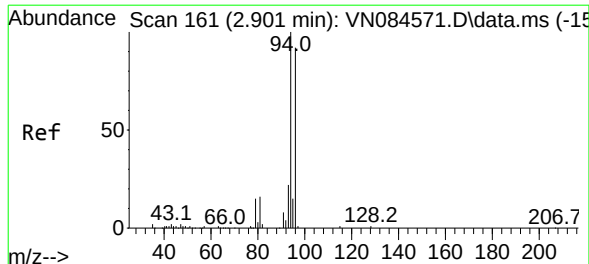
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#4
Vinyl Chloride
Concen: 10.295 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.006 min
Lab File: VN084573.D
Acq: 30 Oct 2024 12:57

Tgt Ion: 62 Resp: 22896
Ion Ratio Lower Upper
62 100
64 36.6 26.2 39.4





#5

Bromomethane

Concen: 10.245 ug/l

RT: 2.901 min Scan# 161

Delta R.T. -0.052 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 94 Resp: 12071

Ion Ratio Lower Upper

94 100

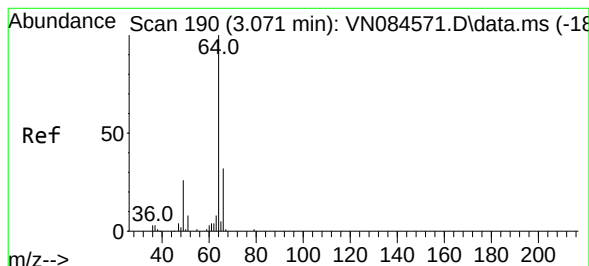
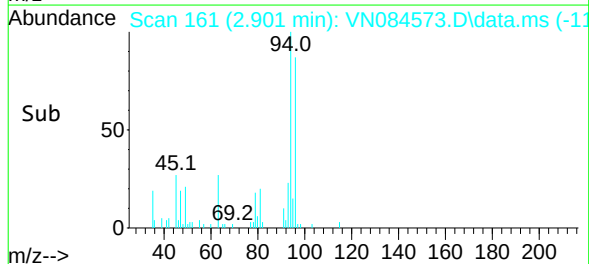
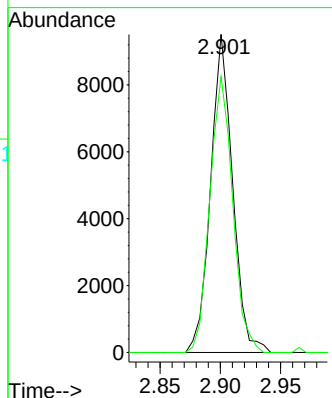
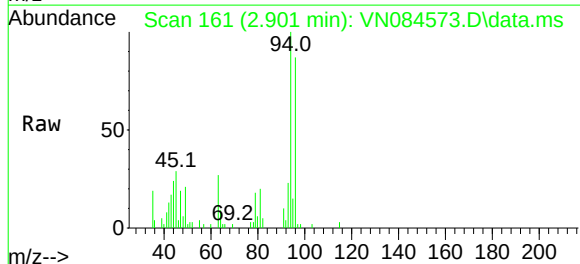
96 86.7 72.9 109.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#6

Chloroethane

Concen: 10.010 ug/l

RT: 3.059 min Scan# 188

Delta R.T. -0.059 min

Lab File: VN084573.D

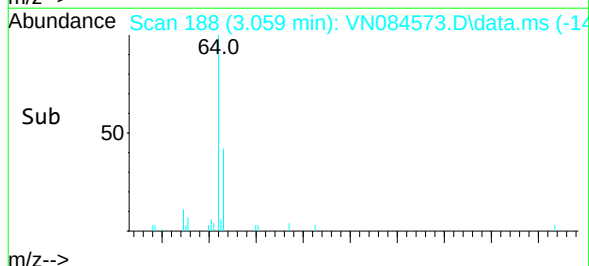
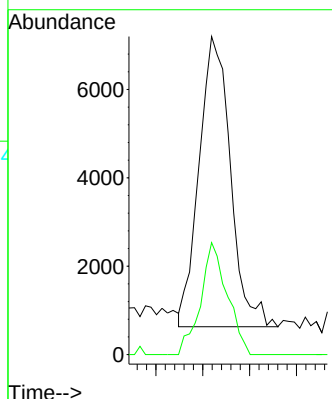
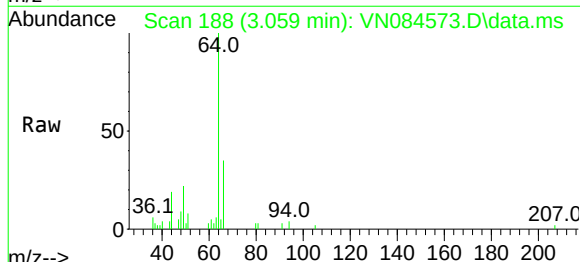
Acq: 30 Oct 2024 12:57

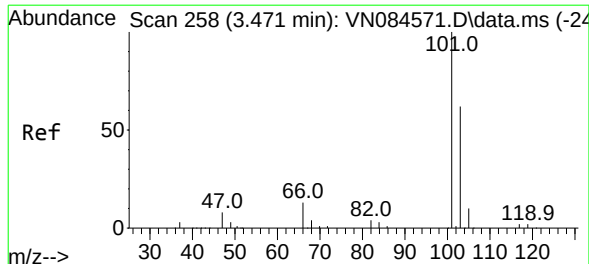
Tgt Ion: 64 Resp: 15315

Ion Ratio Lower Upper

64 100

66 38.6 23.5 35.3#





#7

Trichlorofluoromethane

Concen: 10.031 ug/l

RT: 3.459 min Scan# 25

Delta R.T. -0.036 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion:101 Resp: 36747

Ion Ratio Lower Upper

101 100

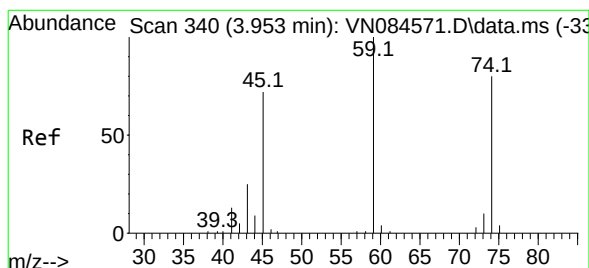
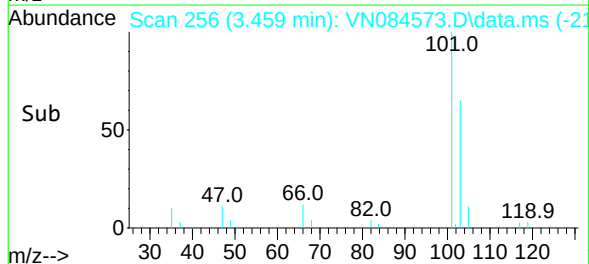
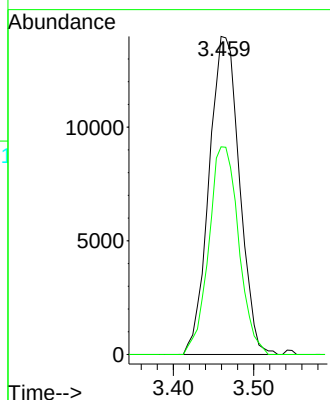
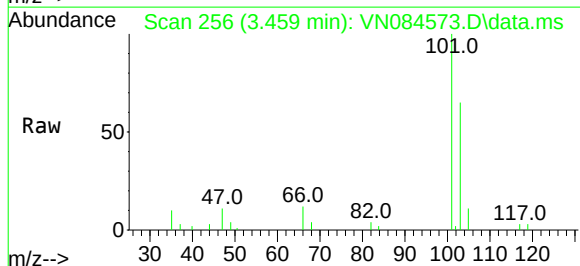
103 65.3 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#8

Diethyl Ether

Concen: 10.129 ug/l

RT: 3.953 min Scan# 340

Delta R.T. -0.006 min

Lab File: VN084573.D

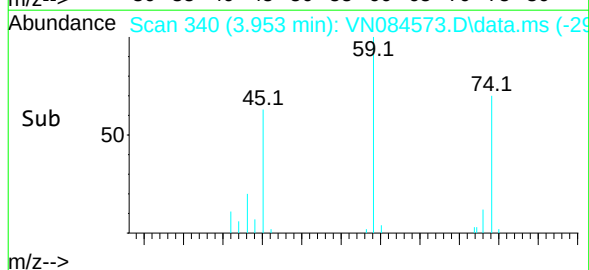
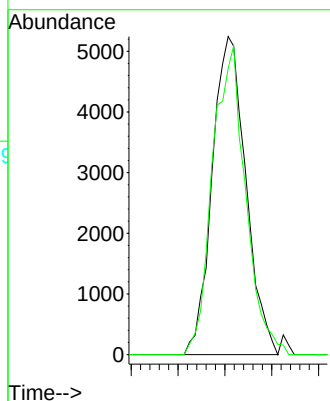
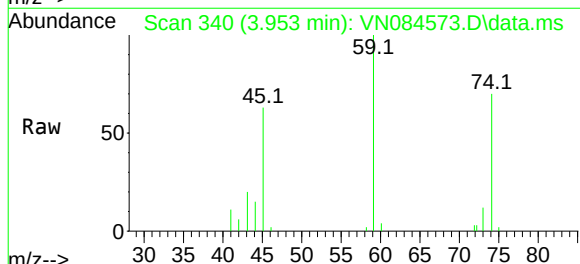
Acq: 30 Oct 2024 12:57

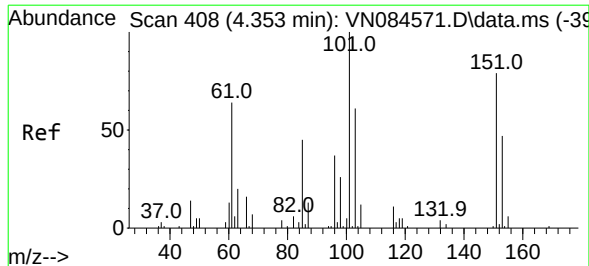
Tgt Ion: 74 Resp: 13090

Ion Ratio Lower Upper

74 100

45 95.3 47.7 143.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 10.158 ug/l

RT: 4.353 min Scan# 408

Delta R.T. -0.018 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

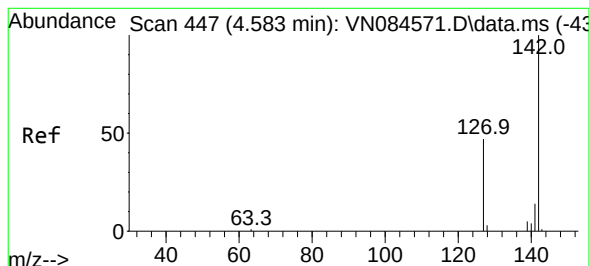
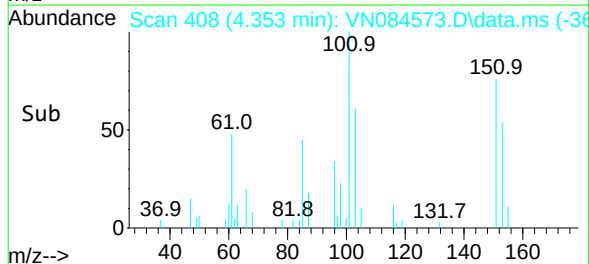
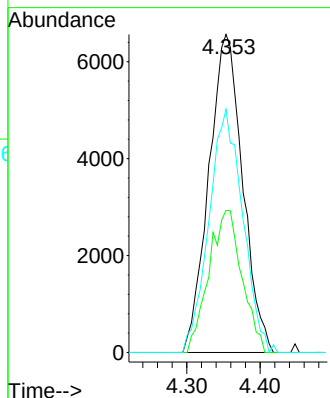
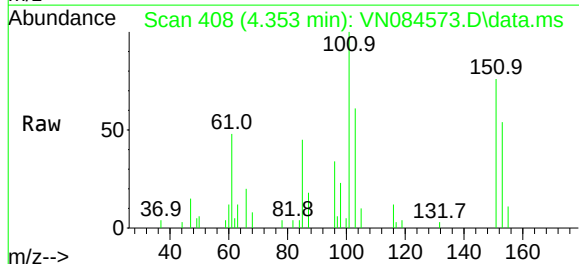
VSTDIC010

Tgt Ion:	101	Resp:	21028
Ion Ratio	Lower	Upper	
101	100		
85	43.9	36.2	54.4
151	76.4	59.3	88.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#10

Methyl Iodide

Concen: 10.408 ug/l

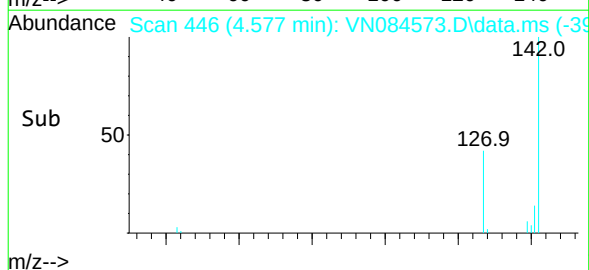
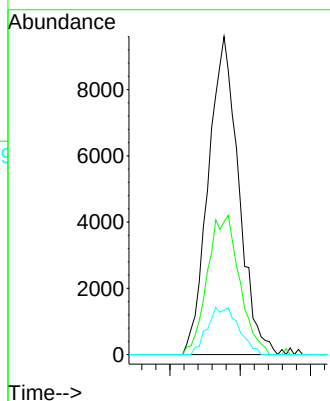
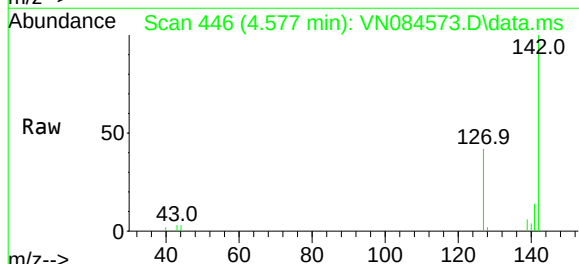
RT: 4.577 min Scan# 446

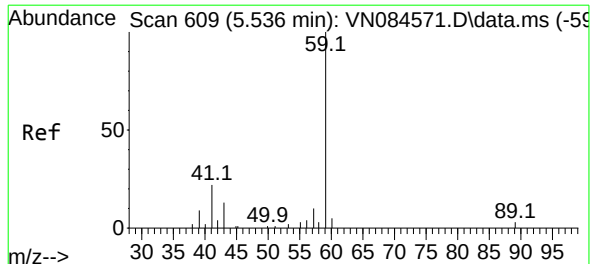
Delta R.T. -0.018 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Tgt Ion:	142	Resp:	28795
Ion Ratio	Lower	Upper	
142	100		
127	41.7	35.3	52.9
141	13.9	11.0	16.6





#11

Tert butyl alcohol

Concen: 52.198 ug/l

RT: 5.542 min Scan# 61

Delta R.T. 0.018 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 59 Resp: 17899

Ion Ratio Lower Upper

59 100

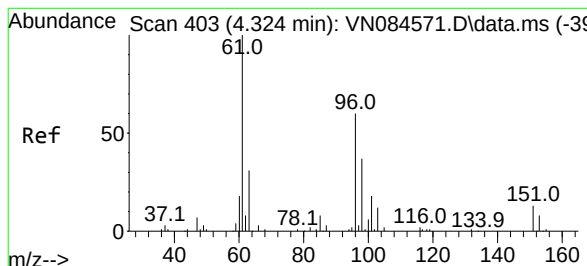
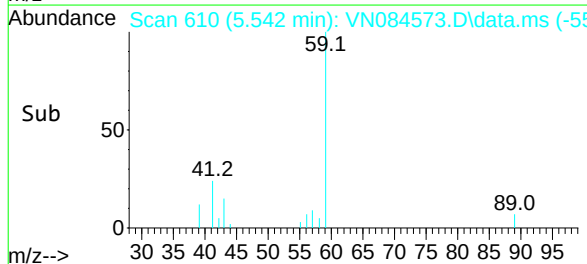
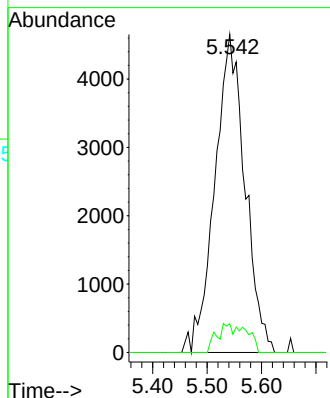
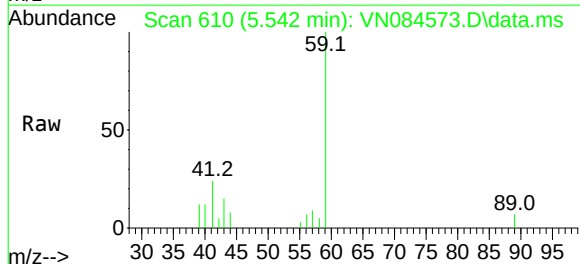
57 4.7 8.2 12.2#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#12

1,1-Dichloroethene

Concen: 10.091 ug/l

RT: 4.324 min Scan# 403

Delta R.T. -0.018 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

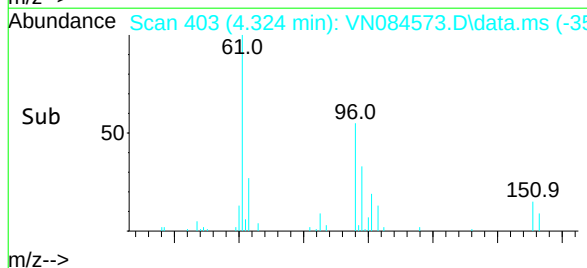
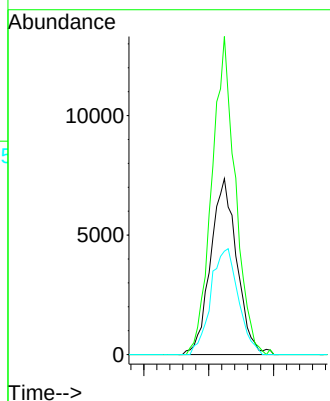
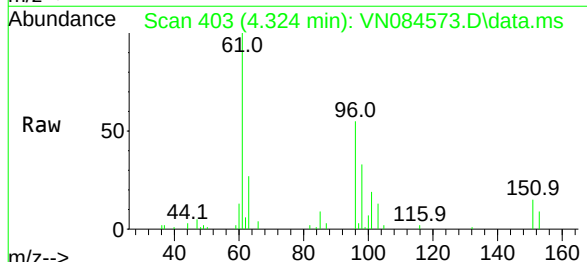
Tgt Ion: 96 Resp: 20669

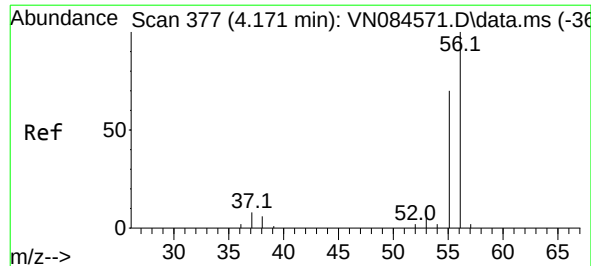
Ion Ratio Lower Upper

96 100

61 180.8 128.6 192.8

98 58.8 51.7 77.5





#13

Acrolein

Concen: 50.547 ug/l

RT: 4.177 min Scan# 37

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 56 Resp: 17284

Ion Ratio Lower Upper

56 100

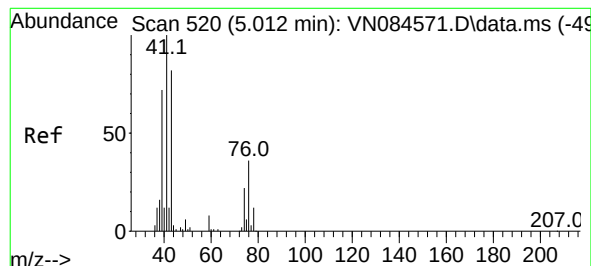
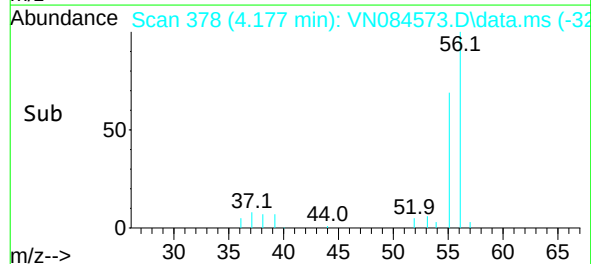
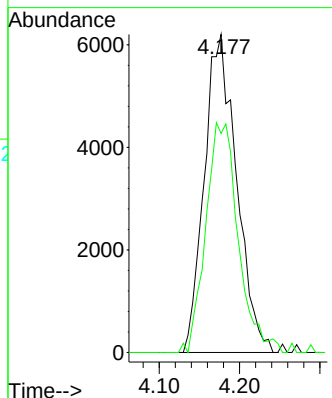
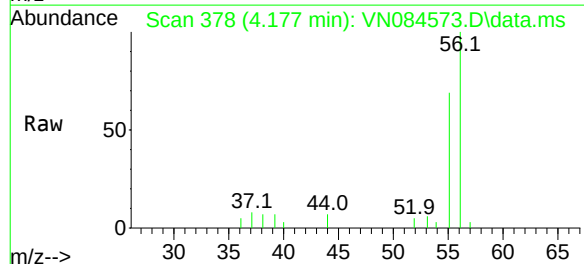
55 72.7 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#14

Allyl chloride

Concen: 10.021 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.012 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

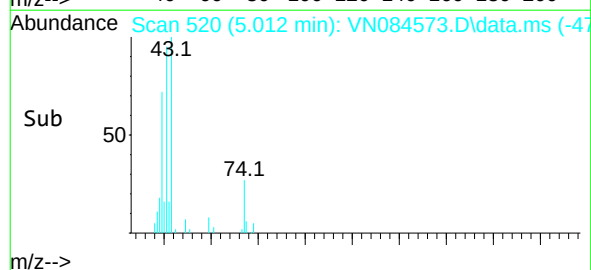
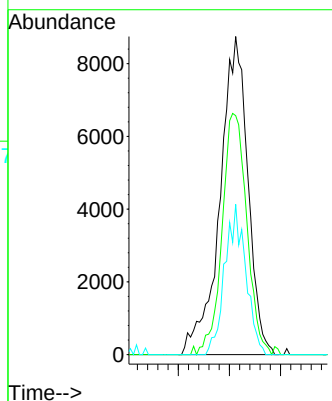
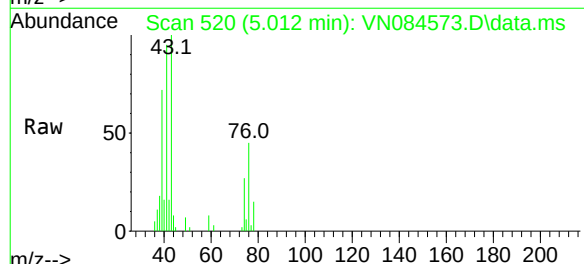
Tgt Ion: 41 Resp: 33287

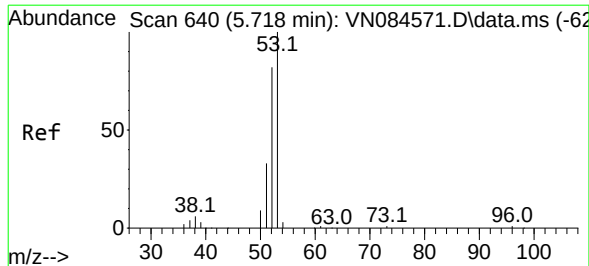
Ion Ratio Lower Upper

41 100

39 66.7 59.0 88.6

76 35.1 29.8 44.6





#15

Acrylonitrile

Concen: 51.104 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

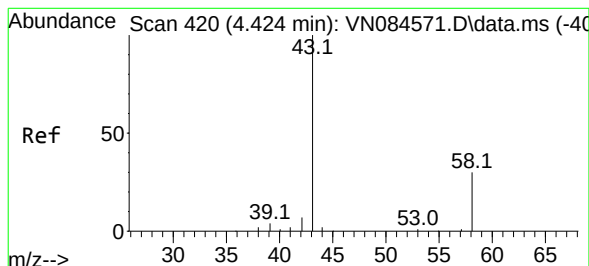
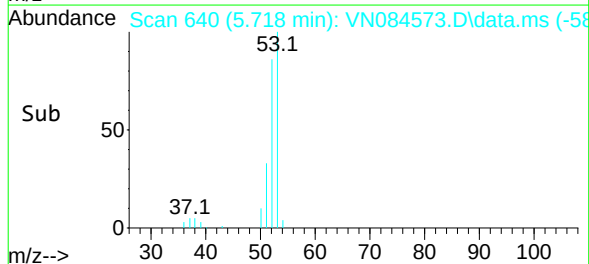
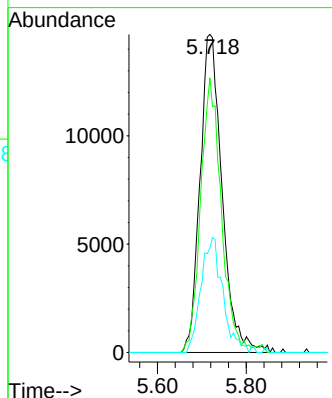
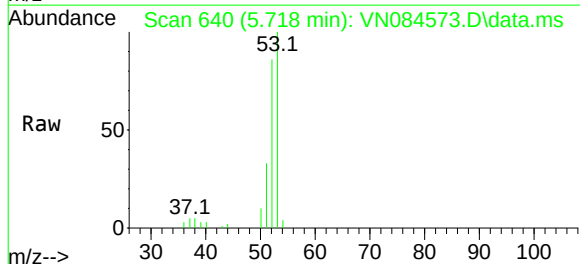
ClientSampleId :

VSTDICC010

Tgt Ion:	53	Resp:	50731
Ion	Ratio	Lower	Upper
53	100		
52	80.9	66.2	99.4
51	35.5	28.8	43.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#16

Acetone

Concen: 51.168 ug/l

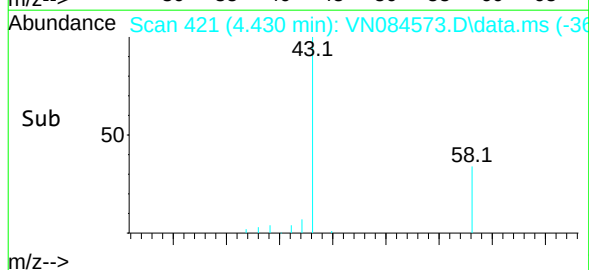
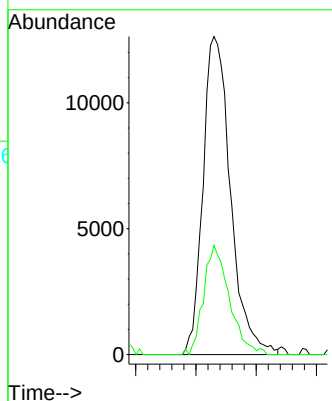
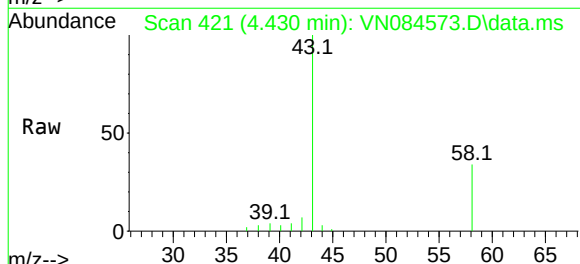
RT: 4.430 min Scan# 421

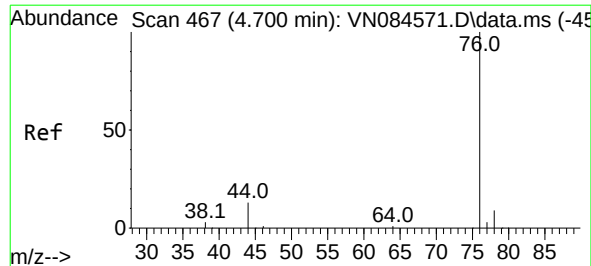
Delta R.T. 0.006 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Tgt Ion:	43	Resp:	40100
Ion	Ratio	Lower	Upper
43	100		
58	34.3	24.4	36.6





#17

Carbon Disulfide

Concen: 9.774 ug/l

RT: 4.695 min Scan# 46

Delta R.T. -0.017 min

Lab File: VN084573.D

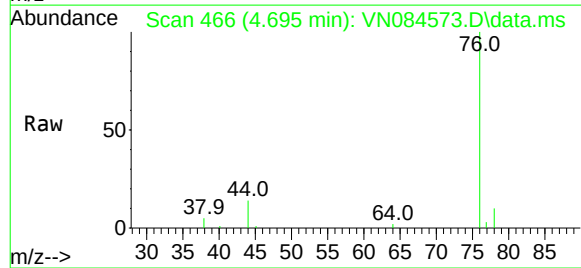
Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010



Tgt Ion: 76 Resp: 61652

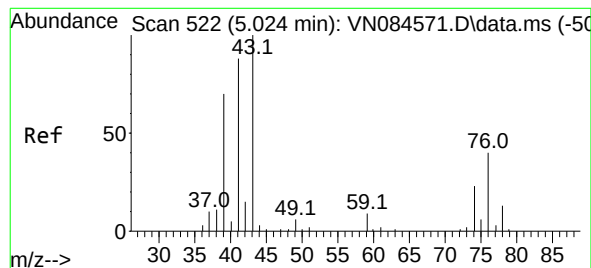
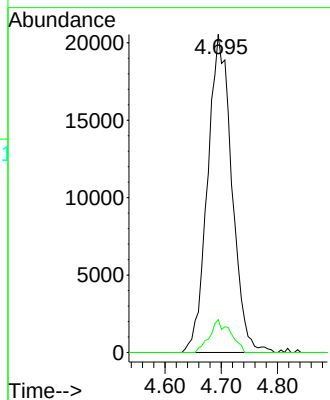
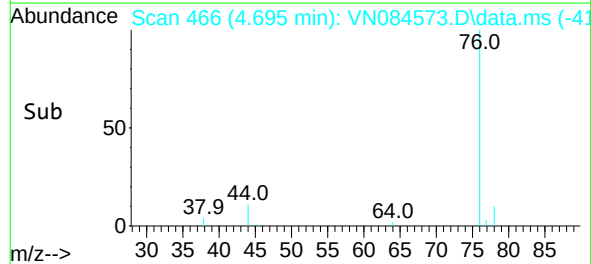
Ion Ratio Lower Upper

76 100

78 10.3 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#18

Methyl Acetate

Concen: 10.544 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN084573.D

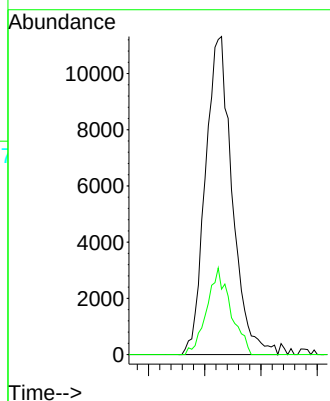
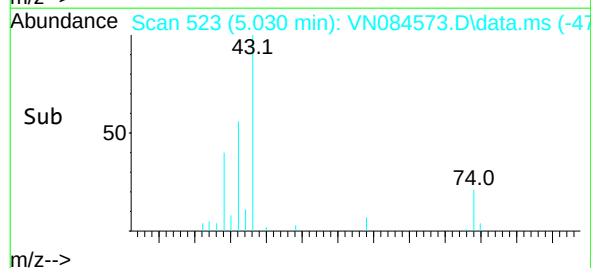
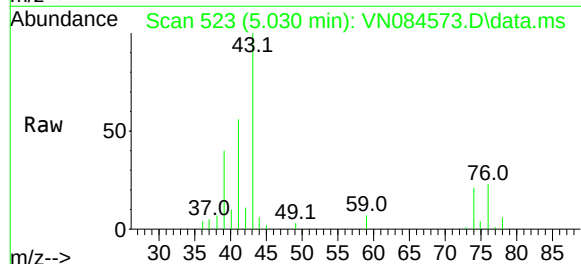
Acq: 30 Oct 2024 12:57

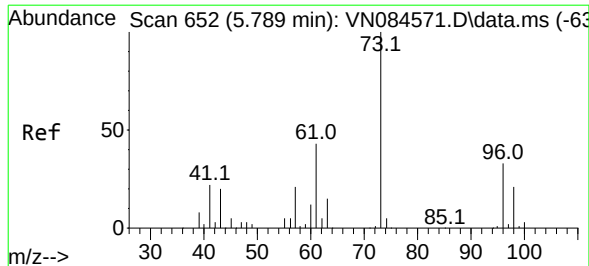
Tgt Ion: 43 Resp: 37538

Ion Ratio Lower Upper

43 100

74 24.2 19.2 28.8





#19

Methyl tert-butyl Ether

Concen: 10.195 ug/l

RT: 5.789 min Scan# 65

Delta R.T. -0.006 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 73 Resp: 64007

Ion Ratio Lower Upper

73 100

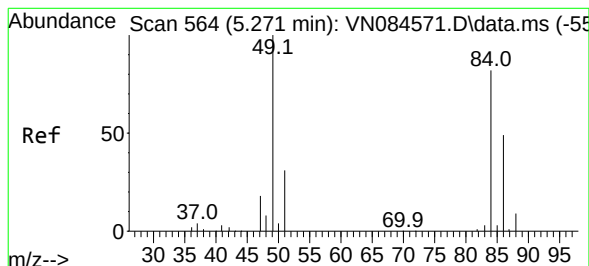
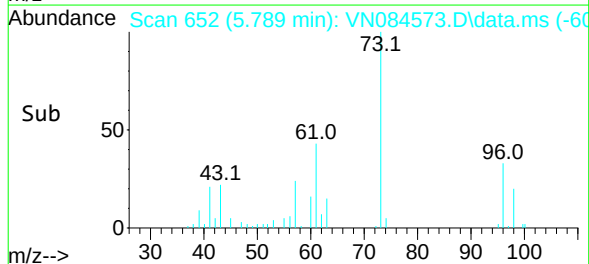
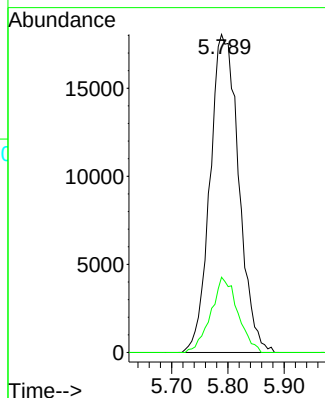
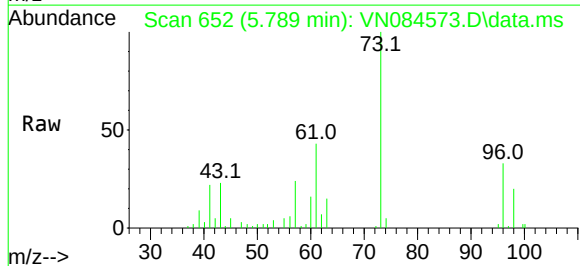
57 23.7 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#20

Methylene Chloride

Concen: 10.366 ug/l

RT: 5.265 min Scan# 563

Delta R.T. -0.012 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Tgt Ion: 84 Resp: 23684

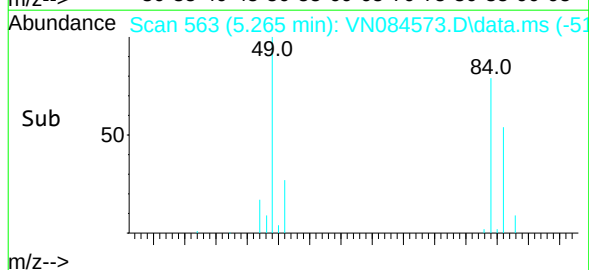
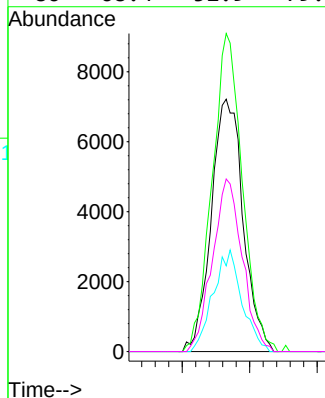
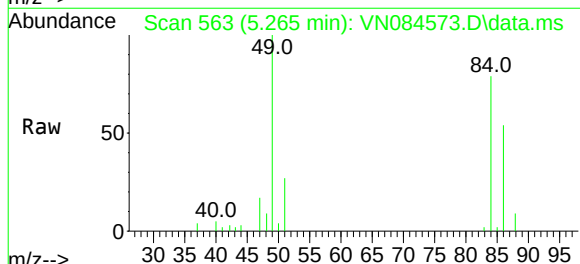
Ion Ratio Lower Upper

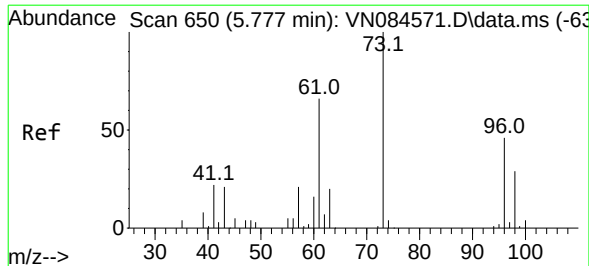
84 100

49 126.0 107.2 160.8

51 34.0 31.8 47.8

86 68.4 52.9 79.3





#21

trans-1,2-Dichloroethene

Concen: 10.261 ug/l

RT: 5.771 min Scan# 649

Delta R.T. -0.018 min

Lab File: VN084573.D

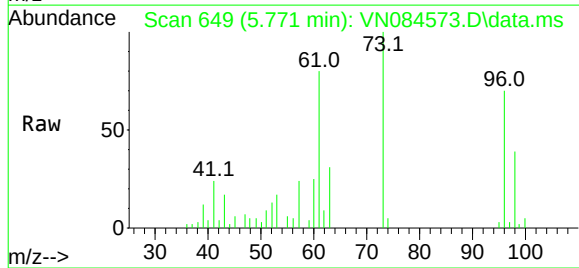
Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010



Tgt Ion: 96 Resp: 21581

Ion Ratio Lower Upper

96 100

61 113.5 108.4 162.6

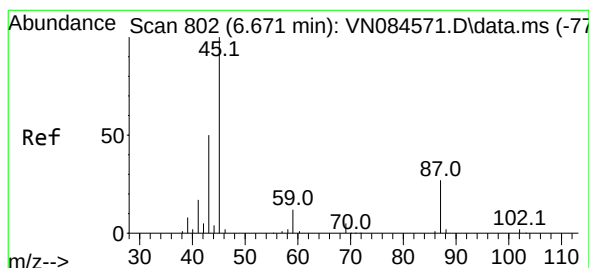
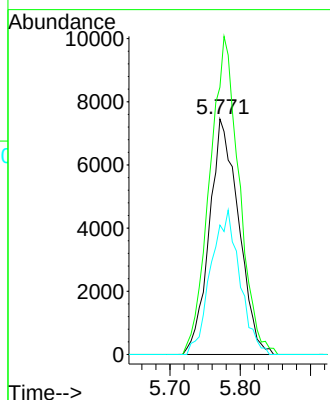
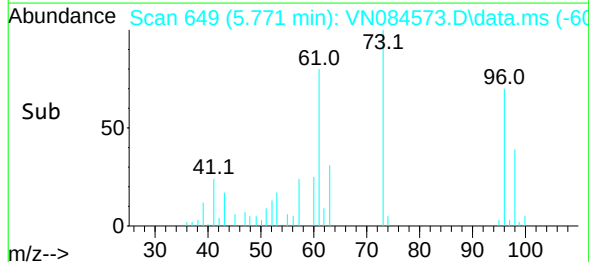
98 55.0 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#22

Diisopropyl ether

Concen: 10.404 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Tgt Ion: 45 Resp: 68672

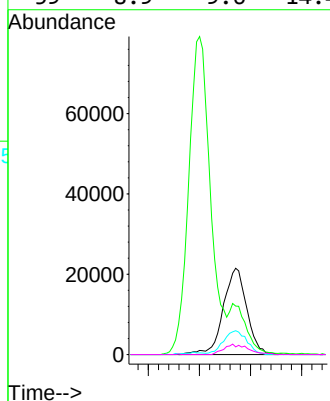
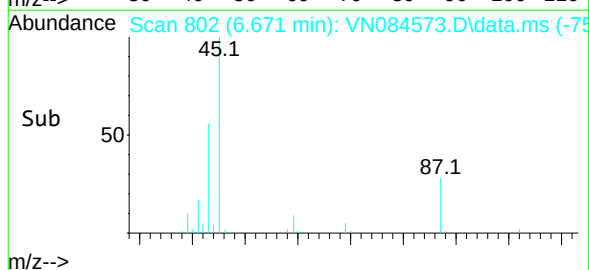
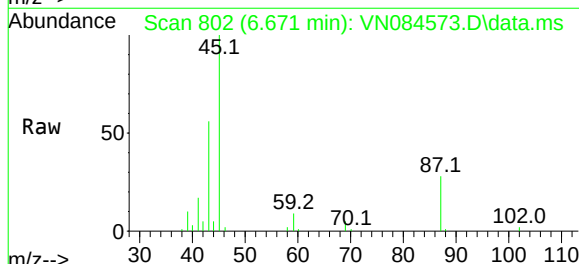
Ion Ratio Lower Upper

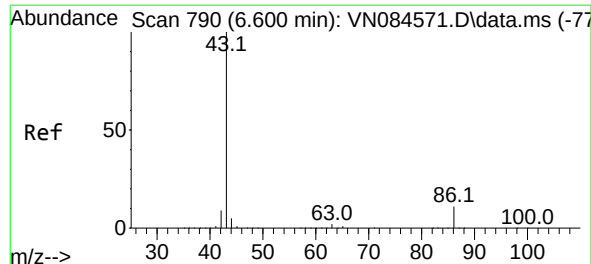
45 100

43 54.8 42.3 63.5

87 27.7 21.8 32.6

59 8.9 9.6 14.4#





#23

Vinyl Acetate

Concen: 51.279 ug/l

RT: 6.600 min Scan# 790

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 43 Resp: 233407

Ion Ratio Lower Upper

43 100

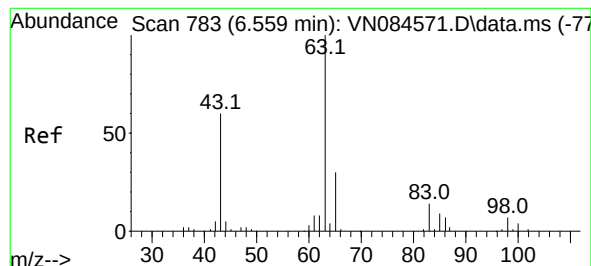
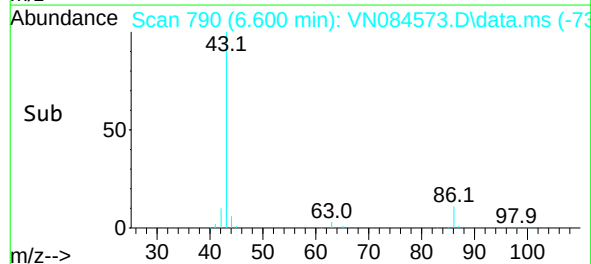
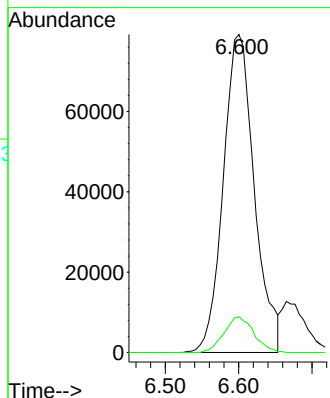
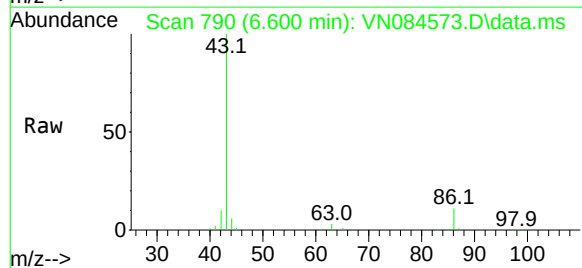
86 11.2 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#24

1,1-Dichloroethane

Concen: 10.234 ug/l

RT: 6.565 min Scan# 784

Delta R.T. -0.006 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

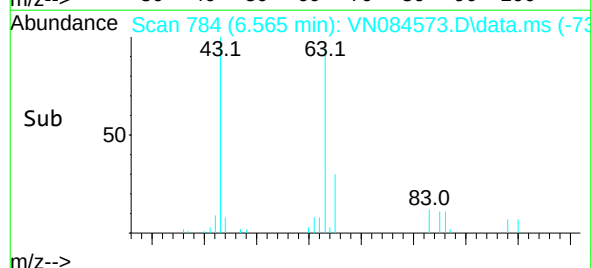
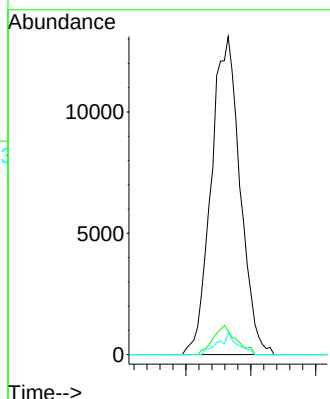
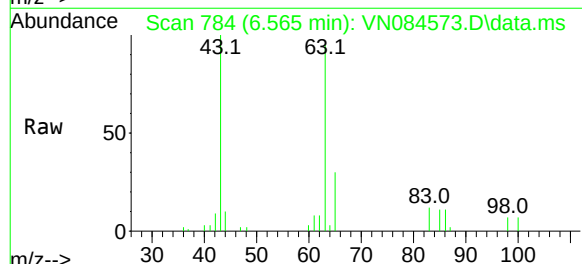
Tgt Ion: 63 Resp: 40556

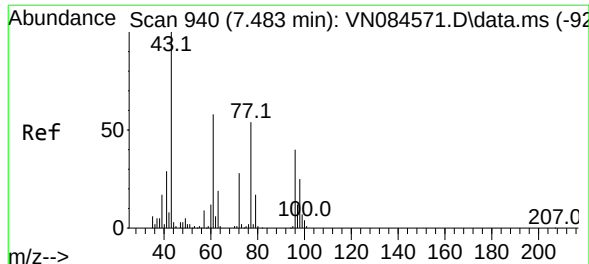
Ion Ratio Lower Upper

63 100

98 7.5 3.4 10.2

100 6.8 2.0 5.8#





#25

2-Butanone

Concen: 50.229 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 43 Resp: 60876

Ion Ratio Lower Upper

43 100

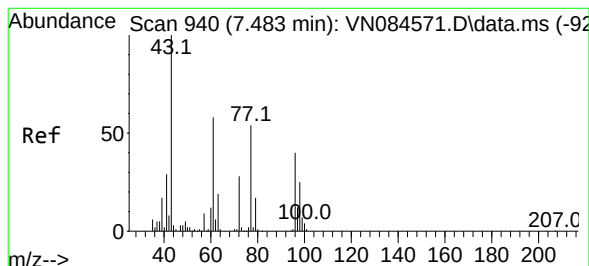
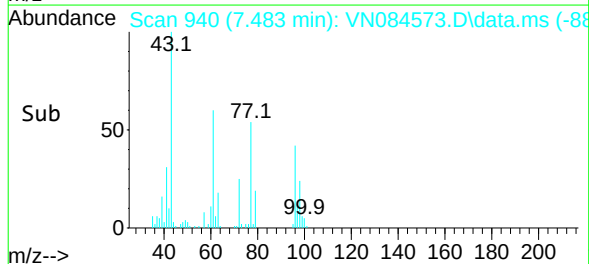
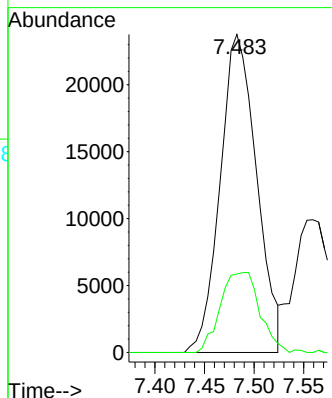
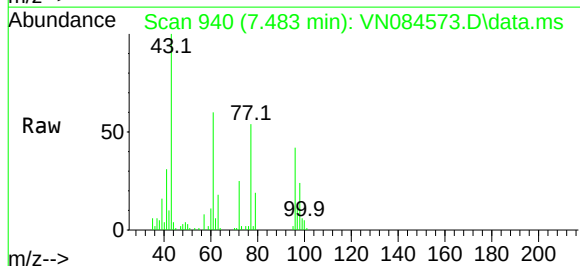
72 24.7 21.4 32.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#26

2,2-Dichloropropane

Concen: 10.203 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.006 min

Lab File: VN084573.D

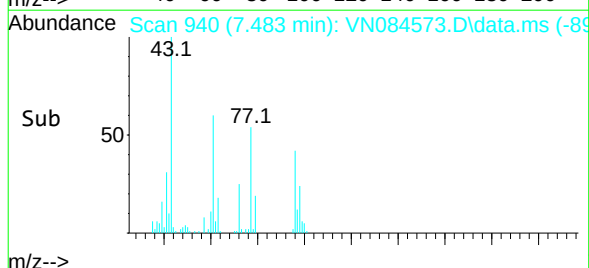
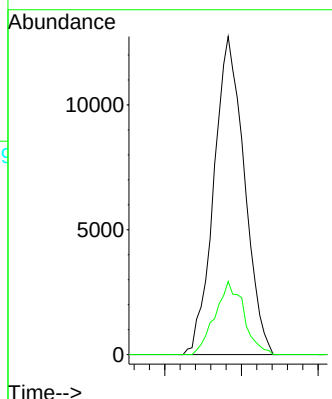
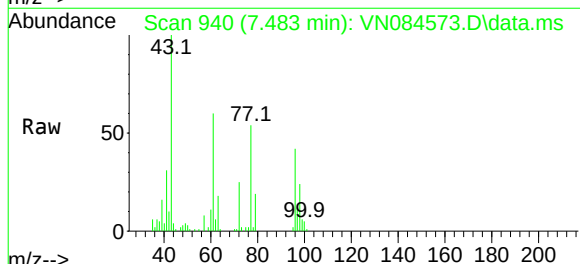
Acq: 30 Oct 2024 12:57

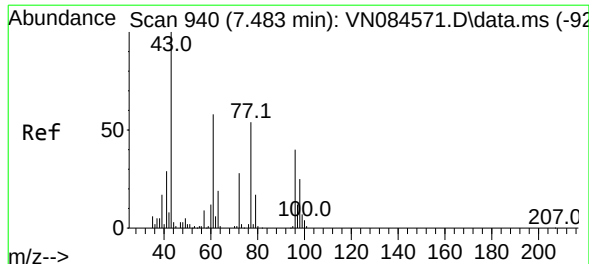
Tgt Ion: 77 Resp: 35189

Ion Ratio Lower Upper

77 100

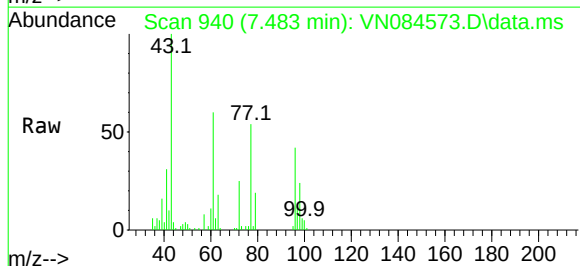
97 21.7 10.8 32.3





#27
 cis-1,2-Dichloroethene
 Concen: 10.028 ug/l
 RT: 7.483 min Scan# 940
 Delta R.T. -0.006 min
 Lab File: VN084573.D
 Acq: 30 Oct 2024 12:57

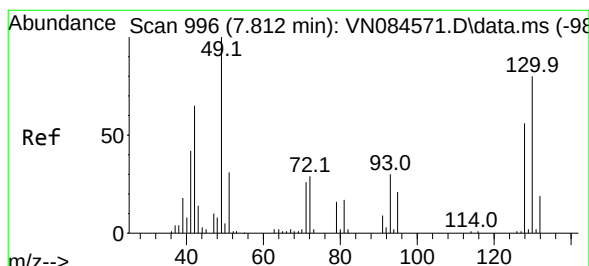
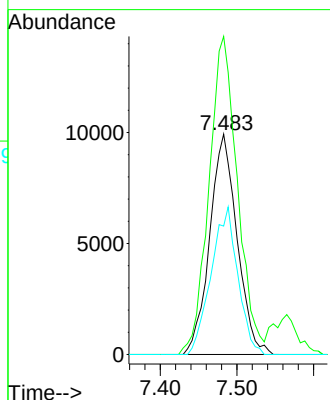
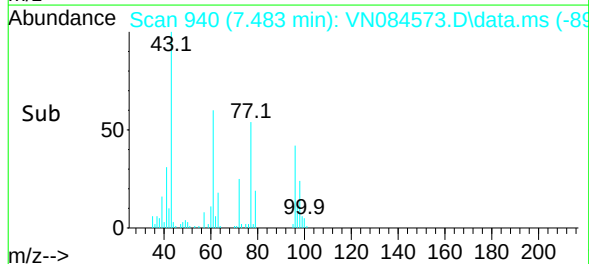
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010



Tgt Ion: 96 Resp: 24626
 Ion Ratio Lower Upper
 96 100
 61 150.1 0.0 301.8
 98 65.2 0.0 128.2

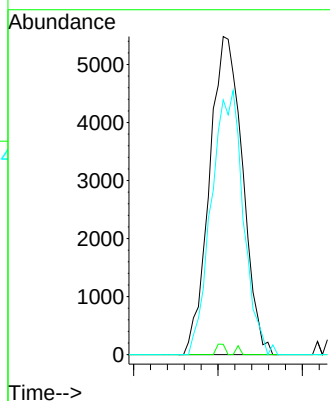
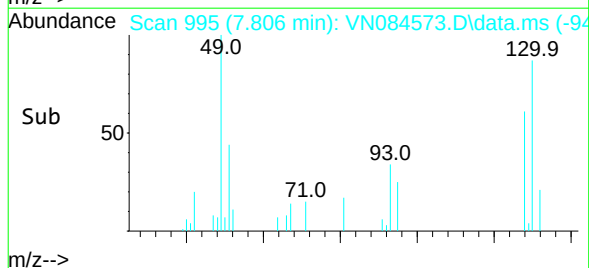
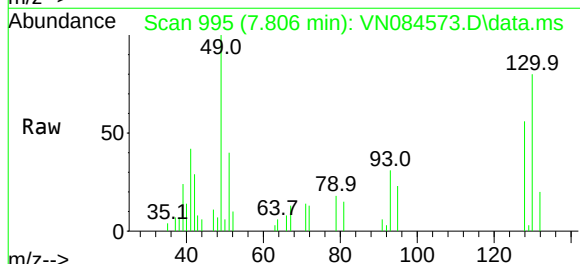
Manual Integrations
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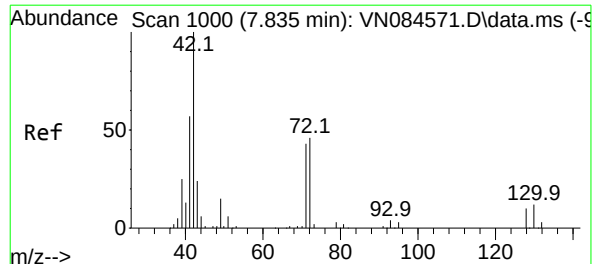
Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024



#28
 Bromochloromethane
 Concen: 9.449 ug/l
 RT: 7.806 min Scan# 995
 Delta R.T. -0.006 min
 Lab File: VN084573.D
 Acq: 30 Oct 2024 12:57

Tgt Ion: 49 Resp: 14918
 Ion Ratio Lower Upper
 49 100
 129 0.9 0.0 3.6
 130 0.0 58.0 87.0#





#29

Tetrahydrofuran

Concen: 52.326 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.006 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 42 Resp: 42072

Ion Ratio Lower Upper

42 100

72 42.3 34.6 51.8

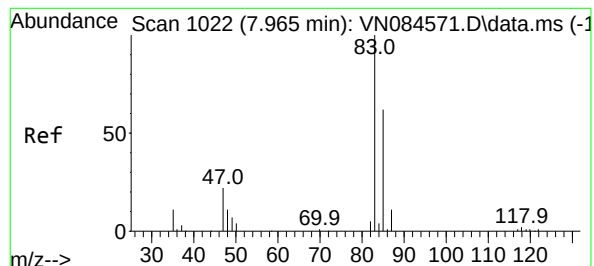
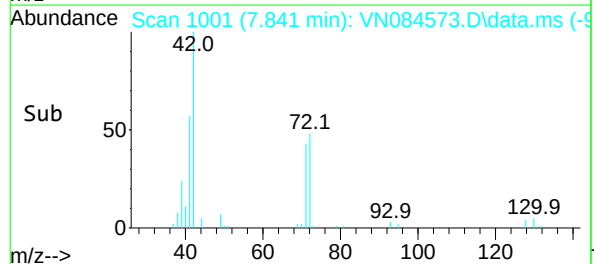
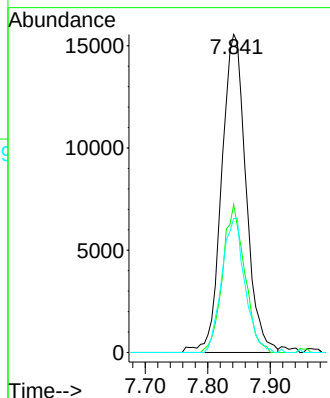
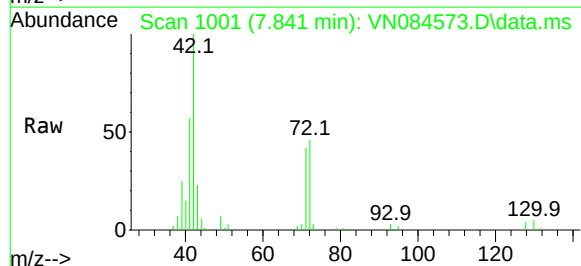
71 40.1 32.2 48.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#30

Chloroform

Concen: 10.288 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN084573.D

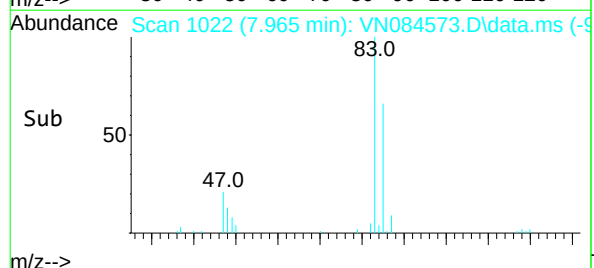
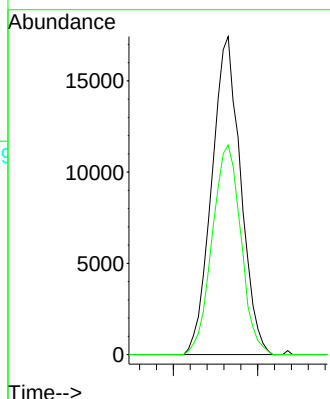
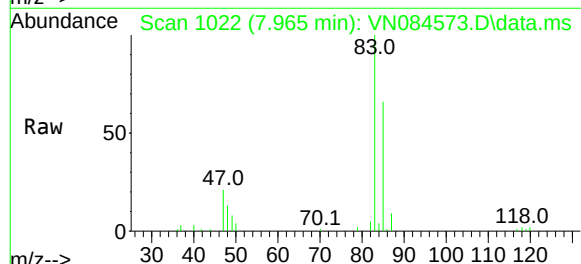
Acq: 30 Oct 2024 12:57

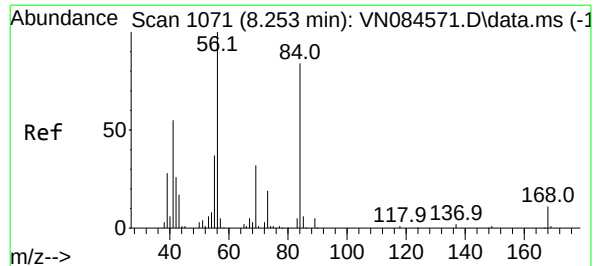
Tgt Ion: 83 Resp: 41496

Ion Ratio Lower Upper

83 100

85 65.9 51.0 76.4





#31

Cyclohexane

Concen: 10.460 ug/l

RT: 8.247 min Scan# 1071

Delta R.T. -0.006 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 56 Resp: 37514

Ion Ratio Lower Upper

56 100

69 33.9 23.8 35.6

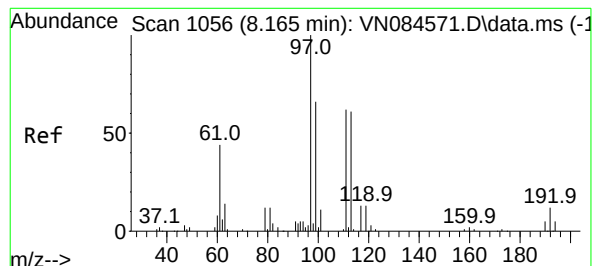
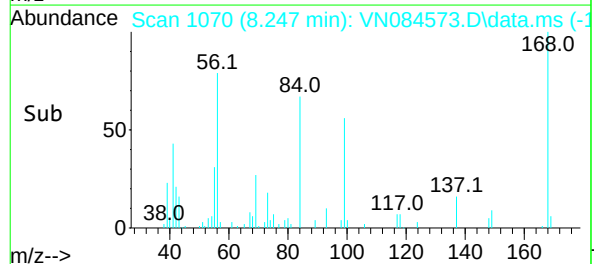
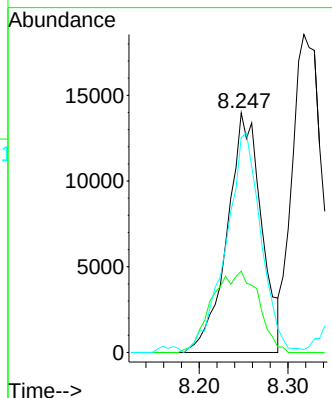
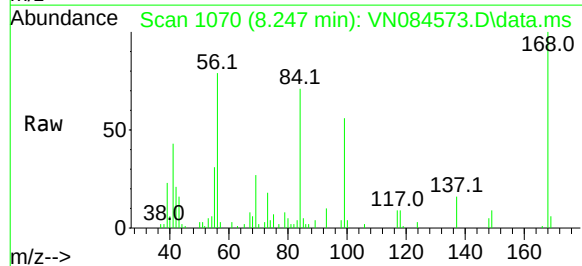
84 88.1 68.8 103.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#32

1,1,1-Trichloroethane

Concen: 10.518 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

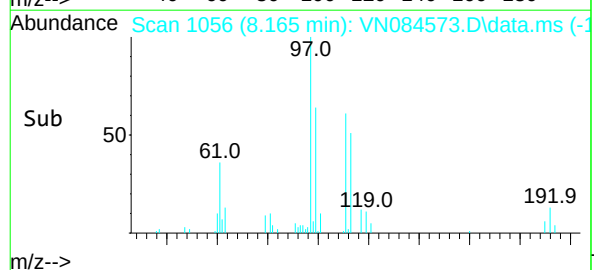
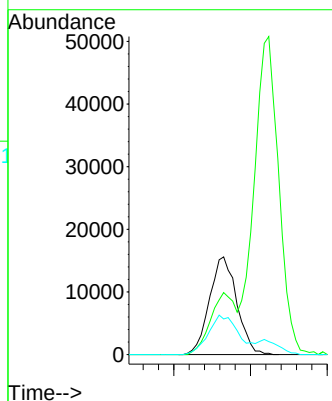
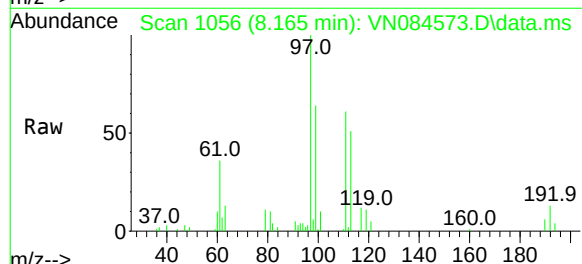
Tgt Ion: 97 Resp: 38612

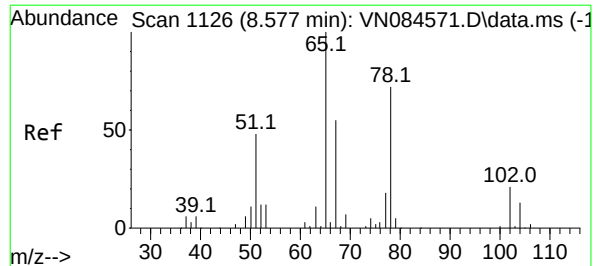
Ion Ratio Lower Upper

97 100

99 57.5 51.2 76.8

61 45.3 37.5 56.3





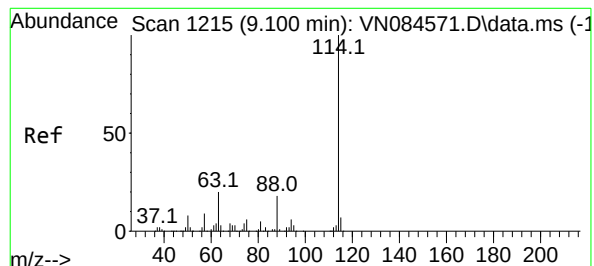
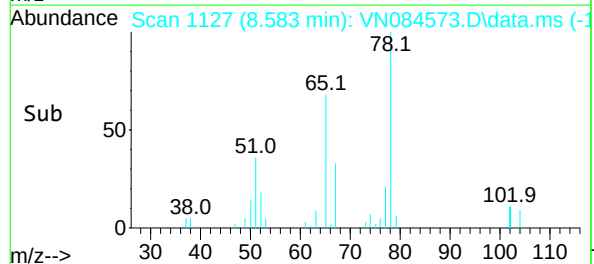
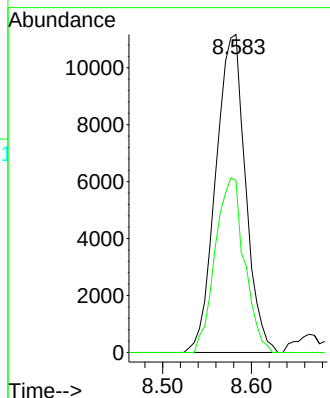
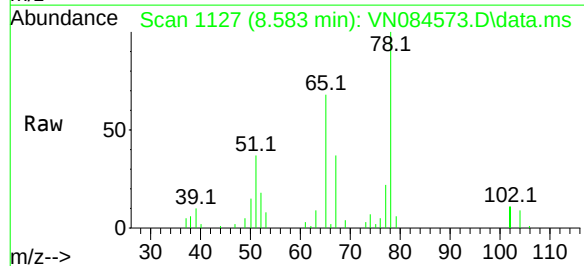
#33
1,2-Dichloroethane-d4
Concen: 10.003 ug/l
RT: 8.583 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN084573.D
Acq: 30 Oct 2024 12:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 65 Resp: 25986
Ion Ratio Lower Upper
65 100
67 54.0 0.0 102.0

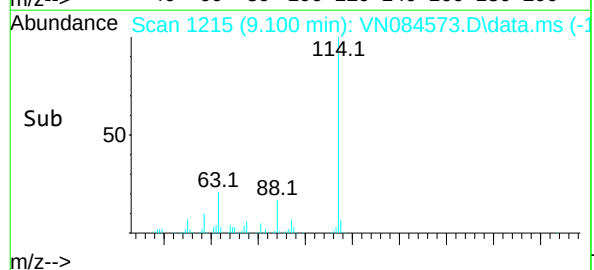
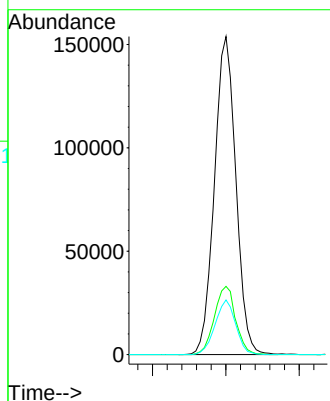
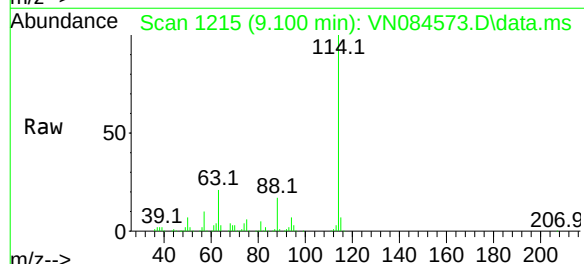
Manual Integrations
APPROVED

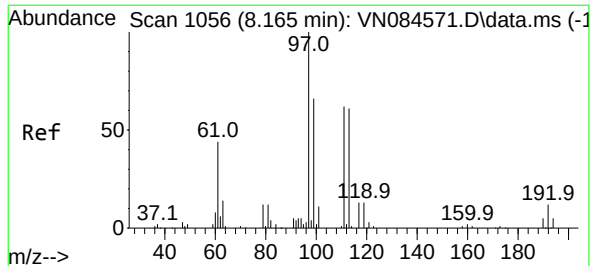
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084573.D
Acq: 30 Oct 2024 12:57

Tgt Ion:114 Resp: 312244
Ion Ratio Lower Upper
114 100
63 21.5 0.0 43.8
88 17.2 0.0 31.6





#35

Dibromofluoromethane

Concen: 9.921 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.006 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 113 Resp: 20969

Ion Ratio Lower Upper

113 100

111 106.8 83.3 124.9

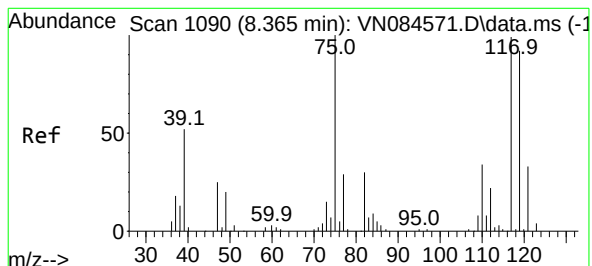
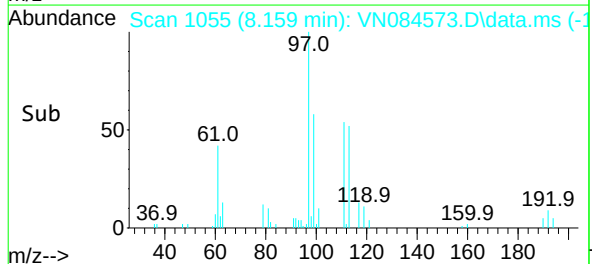
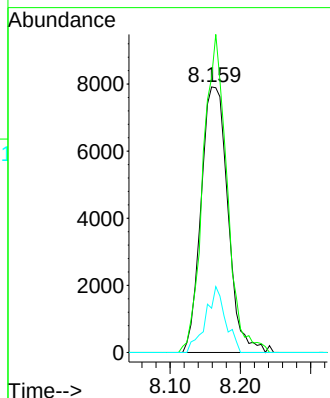
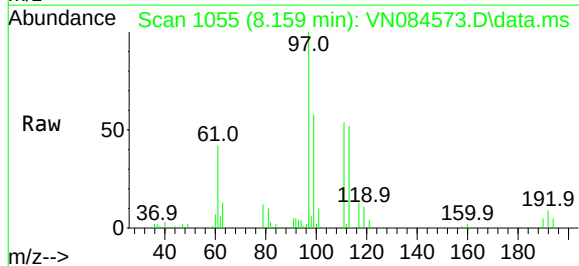
192 18.4 13.5 20.3

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024

Supervised By : Mahesh Dadoda 11/04/2024



#36

1,1-Dichloropropene

Concen: 9.968 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

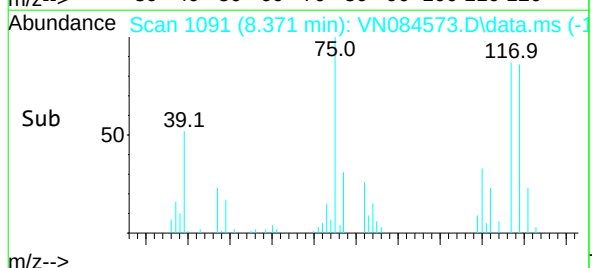
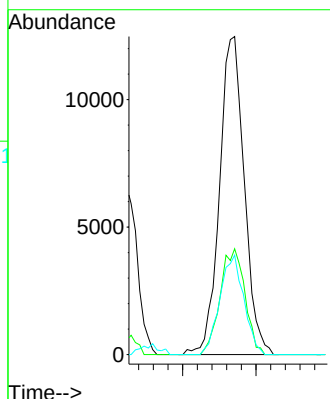
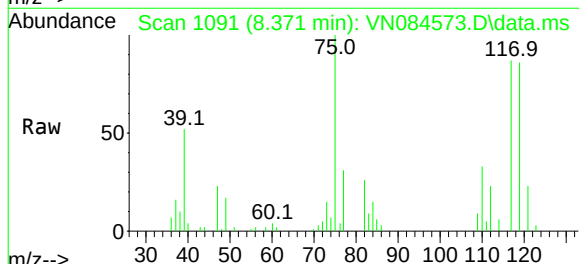
Tgt Ion: 75 Resp: 29218

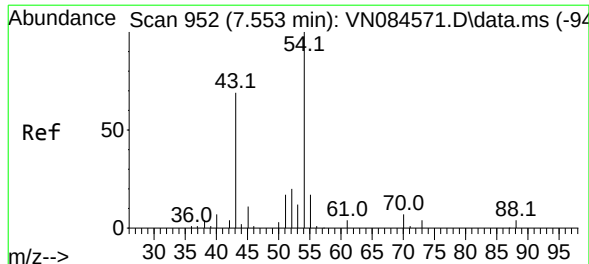
Ion Ratio Lower Upper

75 100

110 33.3 16.9 50.7

77 30.3 24.7 37.1





#37

Ethyl Acetate

Concen: 9.494 ug/l

RT: 7.559 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

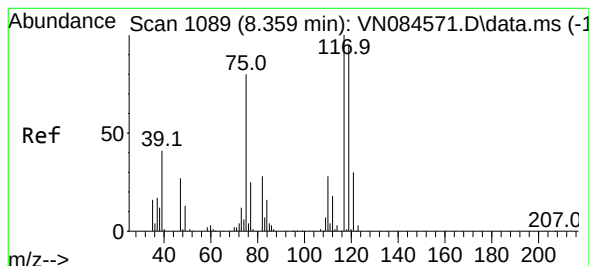
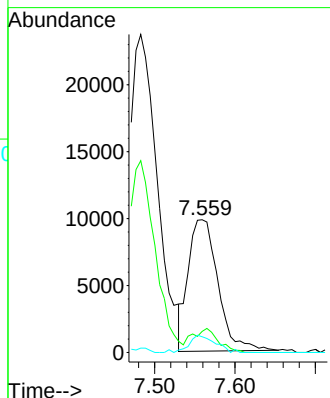
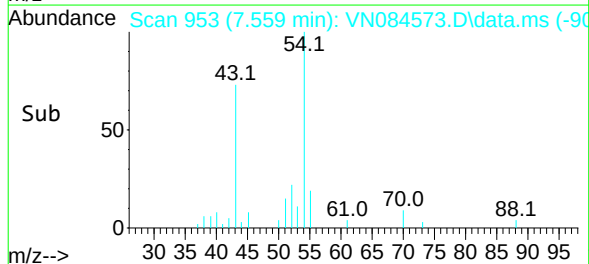
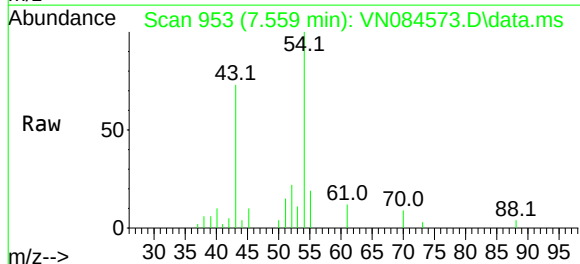
ClientSampleId :

VSTDICC010

Tgt Ion:	43	Resp:	25249
Ion	Ratio	Lower	Upper
43	100		
61	16.0	10.7	16.1
70	11.6	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#38

Carbon Tetrachloride

Concen: 10.443 ug/l

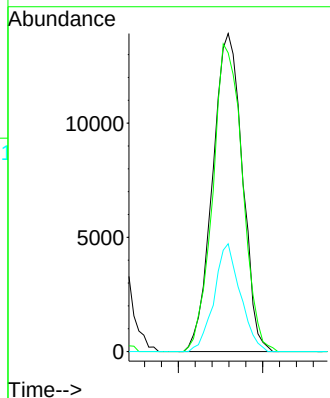
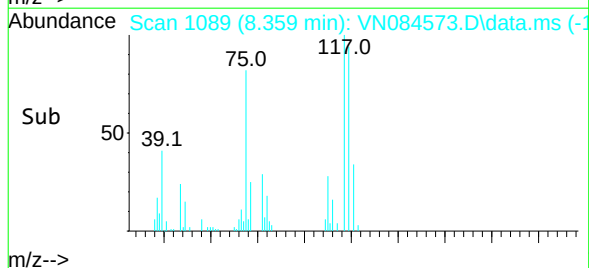
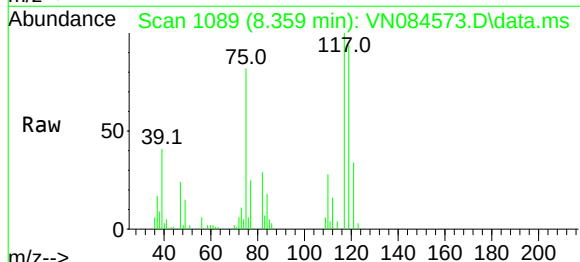
RT: 8.359 min Scan# 1089

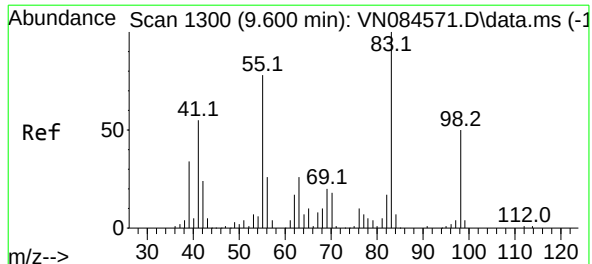
Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Tgt Ion:	117	Resp:	34214
Ion	Ratio	Lower	Upper
117	100		
119	93.9	78.7	118.1
121	33.9	24.4	36.6





#39

Methylcyclohexane

Concen: 10.191 ug/l

RT: 9.600 min Scan# 1310

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

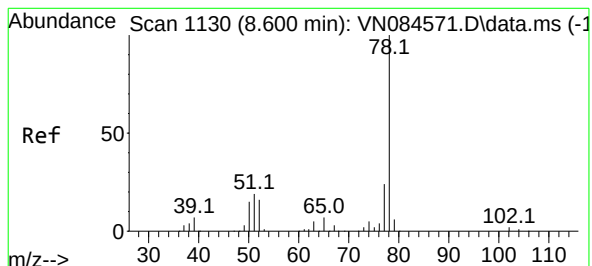
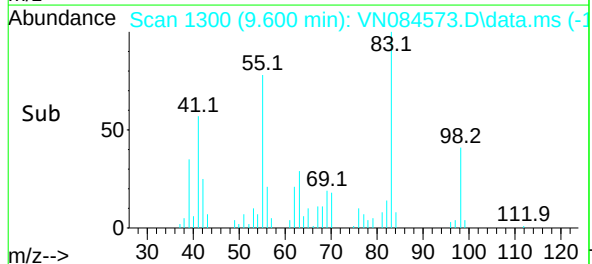
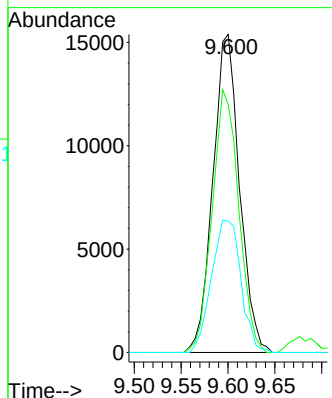
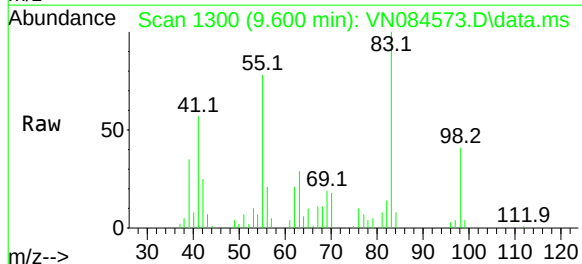
ClientSampleId :

VSTDICC010

Tgt Ion:	83	Resp:	30390
Ion	Ratio	Lower	Upper
83	100		
55	78.0	62.8	94.2
98	41.4	38.8	58.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#40

Benzene

Concen: 9.999 ug/l

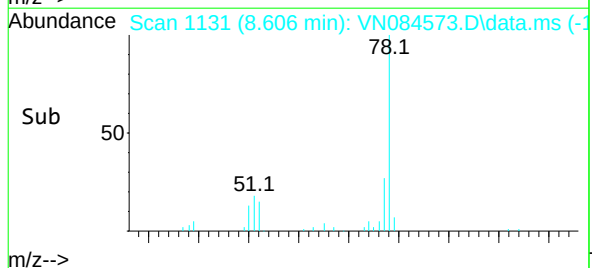
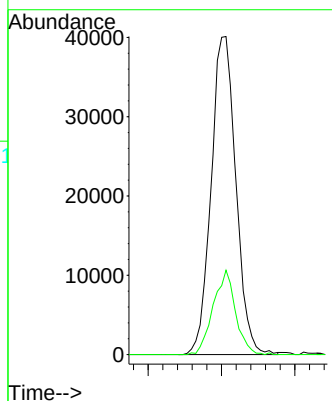
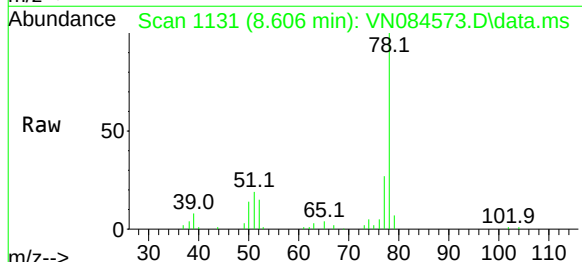
RT: 8.606 min Scan# 1131

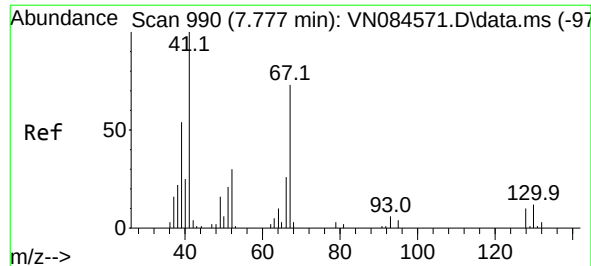
Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Tgt Ion:	78	Resp:	94121
Ion	Ratio	Lower	Upper
78	100		
77	26.5	19.1	28.7





#41

Methacrylonitrile

Concen: 10.128 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 41 Resp: 14485

Ion Ratio Lower Upper

41 100

39 58.4 43.3 64.9

67 72.8 56.1 84.1

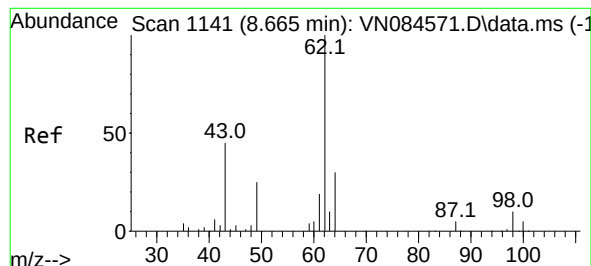
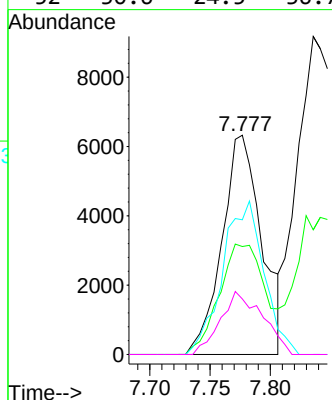
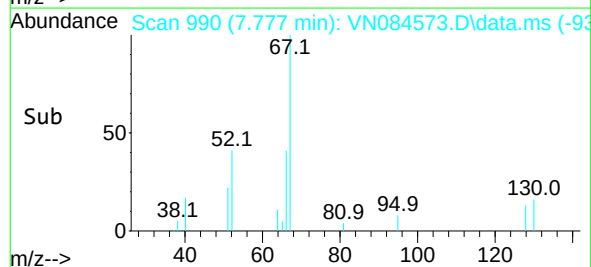
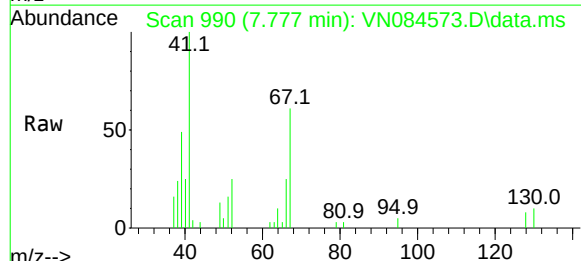
52 30.6 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#42

1,2-Dichloroethane

Concen: 10.087 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VN084573.D

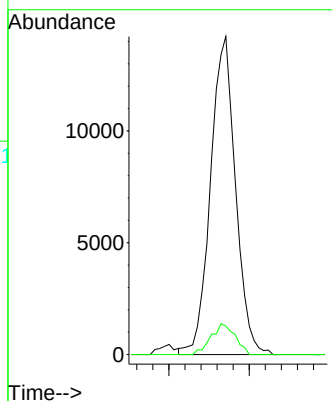
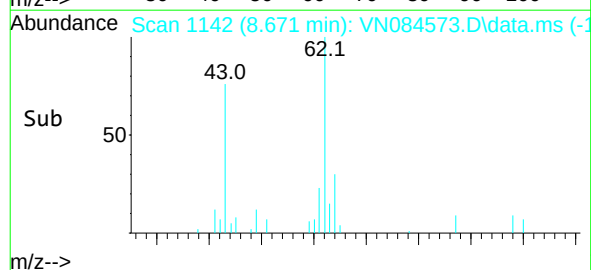
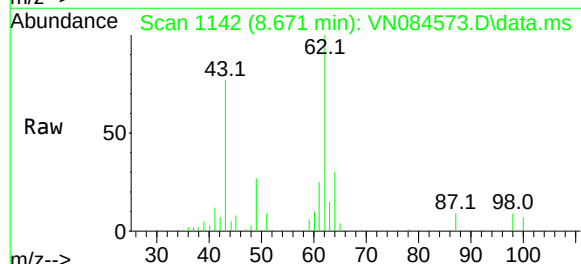
Acq: 30 Oct 2024 12:57

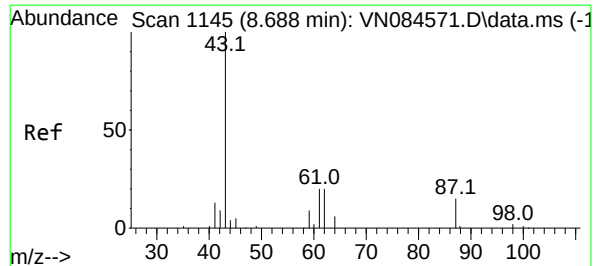
Tgt Ion: 62 Resp: 30752

Ion Ratio Lower Upper

62 100

98 9.3 0.0 18.2





#43

Isopropyl Acetate

Concen: 10.611 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

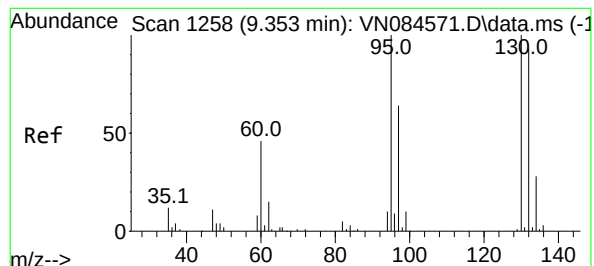
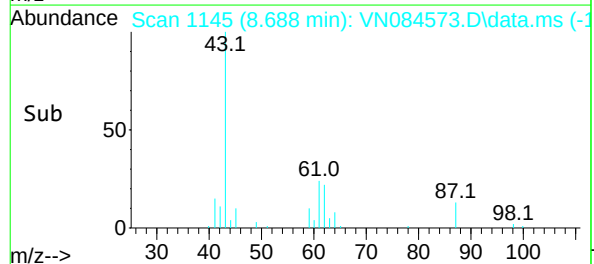
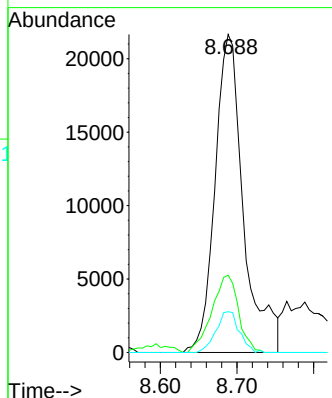
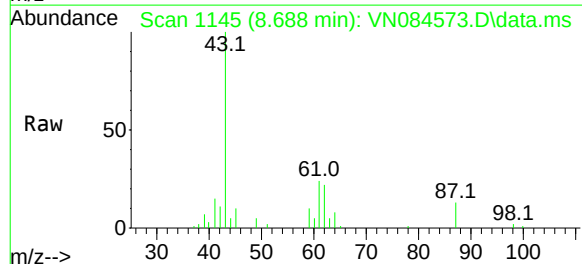
ClientSampleId :

VSTDICC010

Tgt Ion:	43	Resp:	55871
Ion	Ratio	Lower	Upper
43	100		
61	22.8	20.4	30.6
87	10.5	10.3	15.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#44

Trichloroethene

Concen: 9.719 ug/l

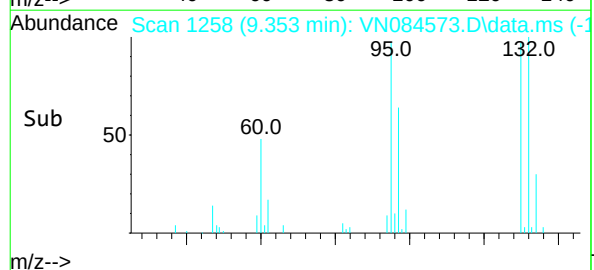
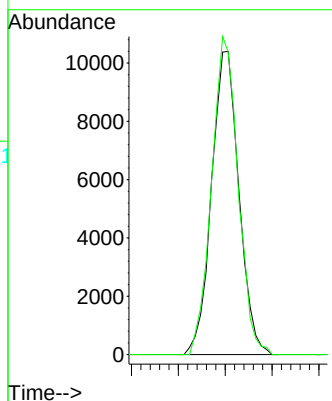
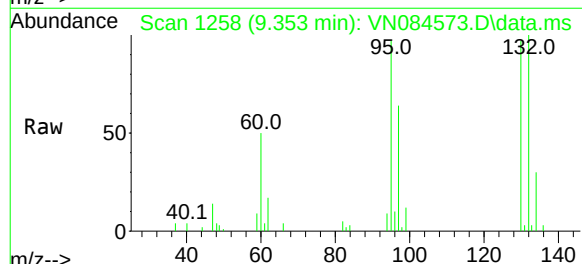
RT: 9.353 min Scan# 1258

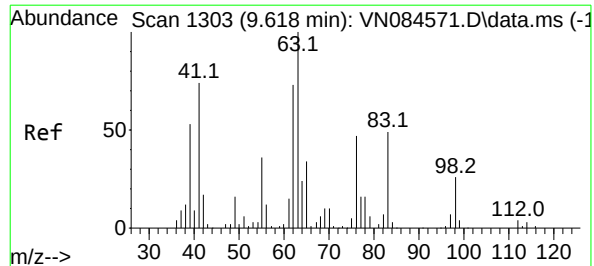
Delta R.T. 0.006 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Tgt Ion:	130	Resp:	21099
Ion	Ratio	Lower	Upper
130	100		
95	99.8	0.0	203.0





#45

1,2-Dichloropropane

Concen: 10.105 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 63 Resp: 22314

Ion Ratio Lower Upper

63 100

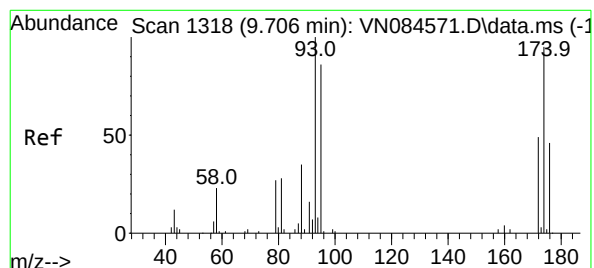
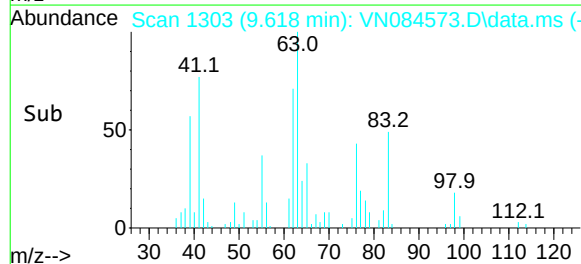
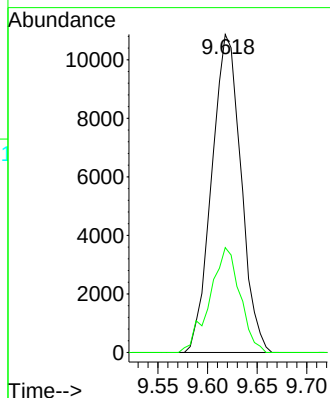
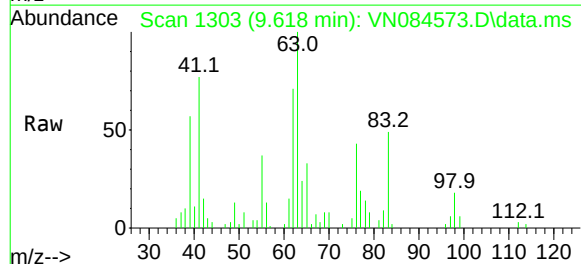
65 33.0 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#46

Dibromomethane

Concen: 9.762 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

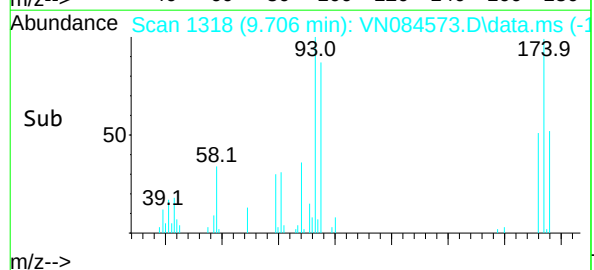
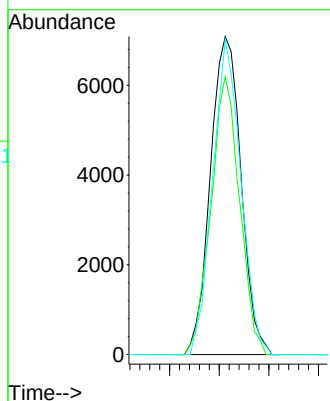
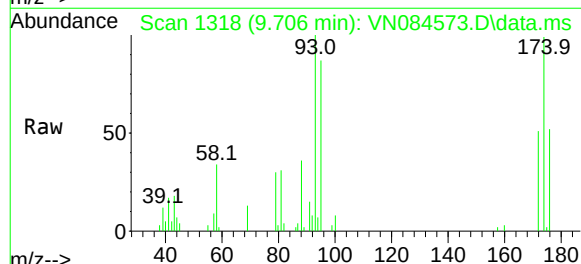
Tgt Ion: 93 Resp: 15211

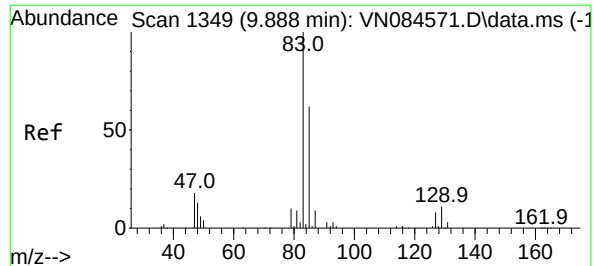
Ion Ratio Lower Upper

93 100

95 81.5 65.0 97.4

174 91.7 71.8 107.8





#47

Bromodichloromethane

Concen: 9.929 ug/l

RT: 9.883 min Scan# 13

Delta R.T. -0.006 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 83 Resp: 32612

Ion Ratio Lower Upper

83 100

85 59.0 51.5 77.3

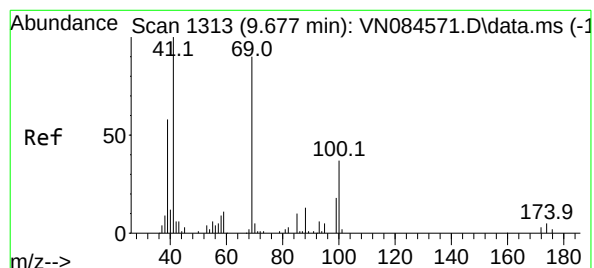
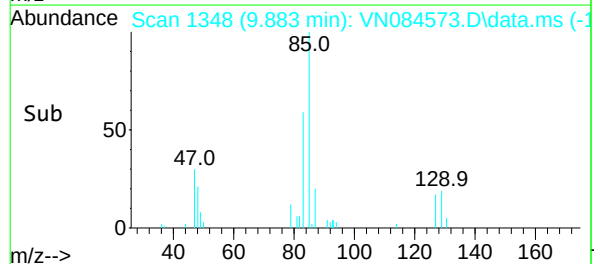
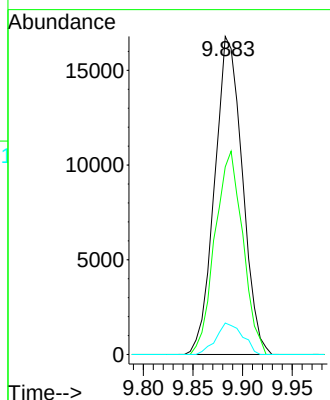
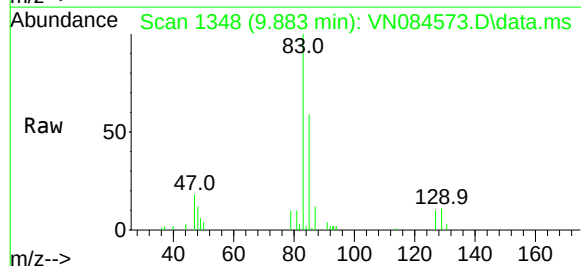
127 9.9 5.7 8.5#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#48

Methyl methacrylate

Concen: 10.127 ug/l

RT: 9.683 min Scan# 1314

Delta R.T. 0.006 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

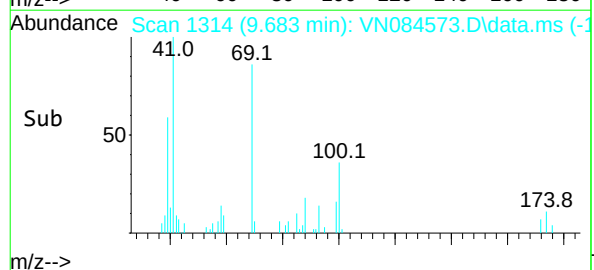
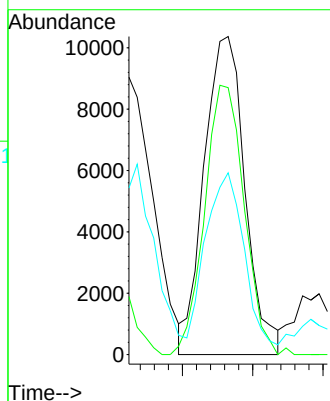
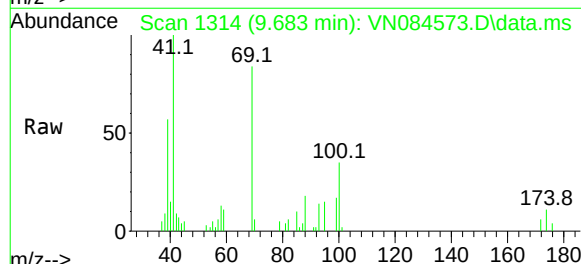
Tgt Ion: 41 Resp: 20961

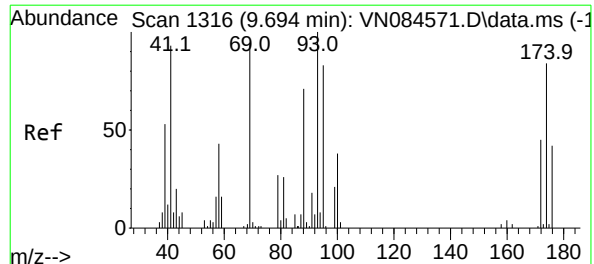
Ion Ratio Lower Upper

41 100

69 81.9 67.1 100.7

39 55.2 45.8 68.6





#49

1,4-Dioxane

Concen: 201.076 ug/l

RT: 9.700 min Scan# 1316

Delta R.T. 0.006 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 88 Resp: 7375

Ion Ratio Lower Upper

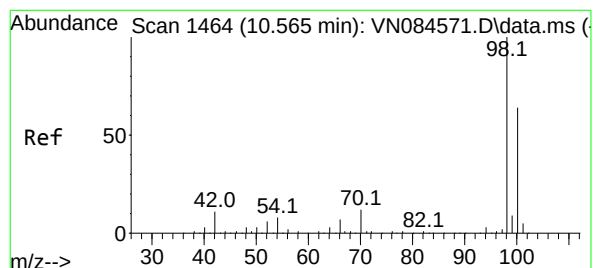
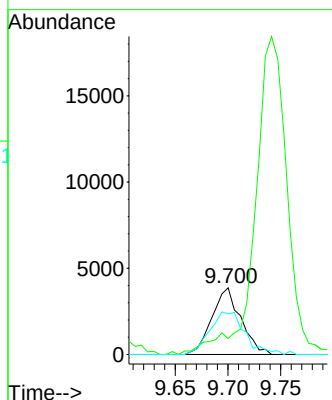
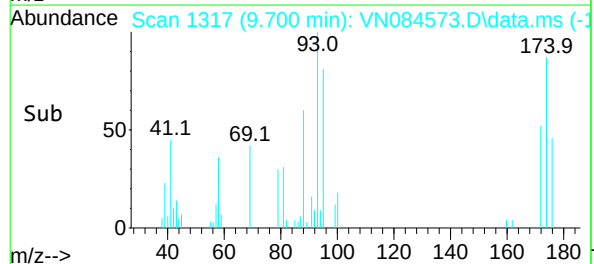
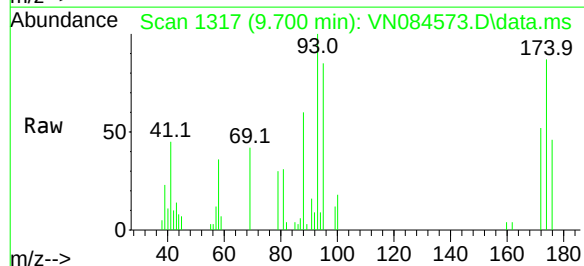
88 100

43 0.0 25.3 37.9

58 78.6 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#50

Toluene-d8

Concen: 9.876 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084573.D

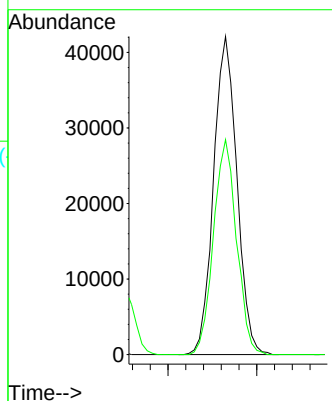
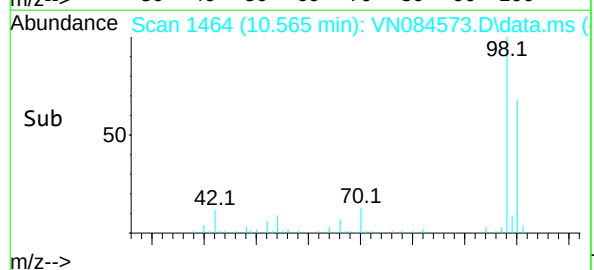
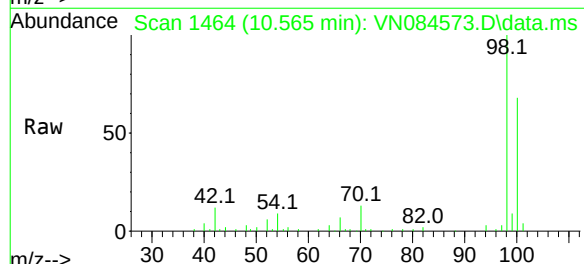
Acq: 30 Oct 2024 12:57

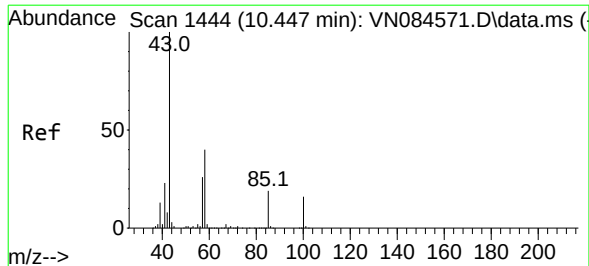
Tgt Ion: 98 Resp: 76892

Ion Ratio Lower Upper

98 100

100 66.8 52.7 79.1





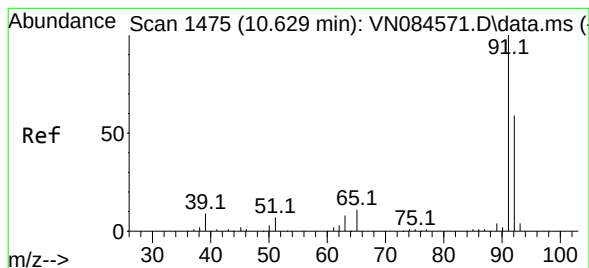
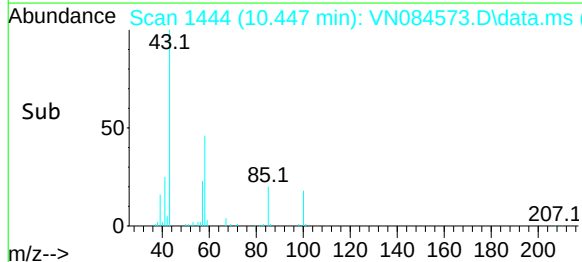
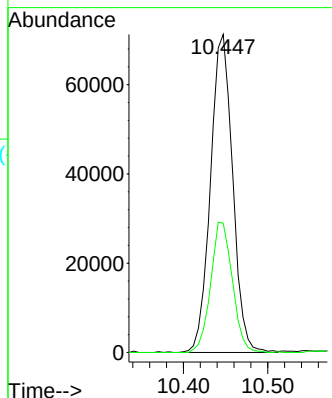
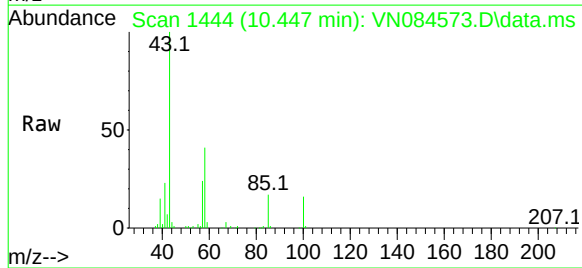
#51
4-Methyl-2-Pentanone
Concen: 51.405 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN084573.D
Acq: 30 Oct 2024 12:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 130324
Ion Ratio Lower Upper
43 100
58 40.1 31.6 47.4

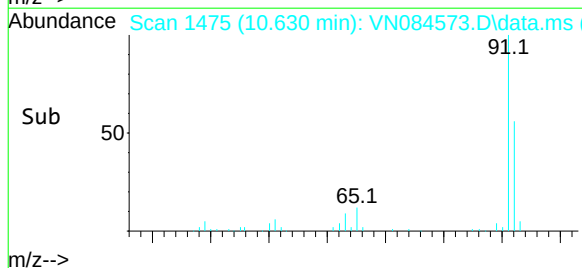
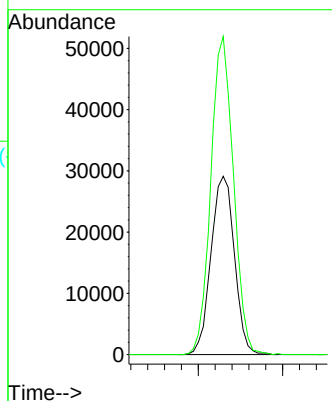
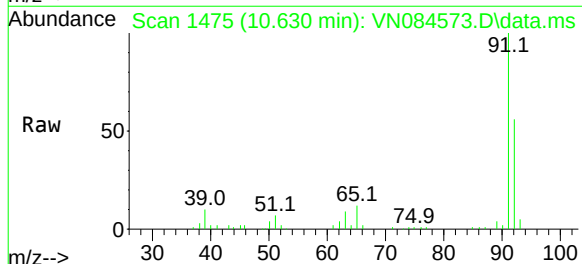
Manual Integrations
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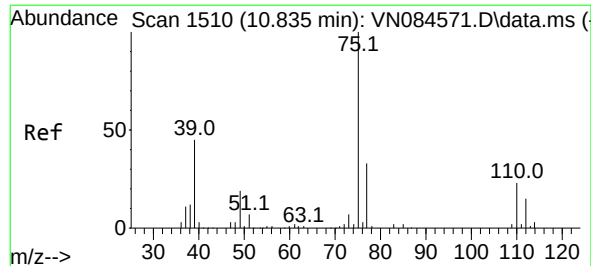
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#52
Toluene
Concen: 10.230 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN084573.D
Acq: 30 Oct 2024 12:57

Tgt Ion: 92 Resp: 56321
Ion Ratio Lower Upper
92 100
91 172.0 137.3 205.9





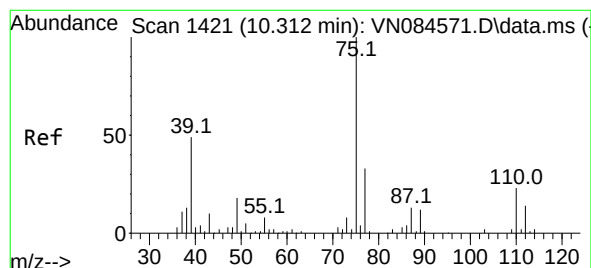
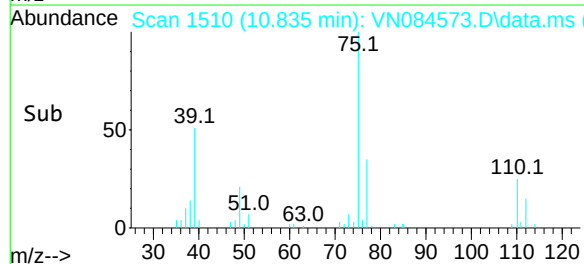
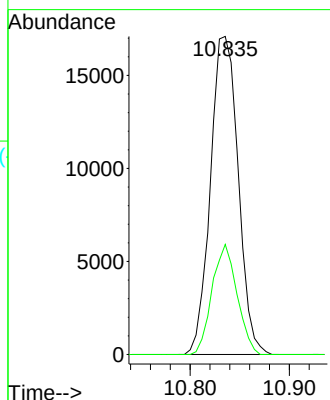
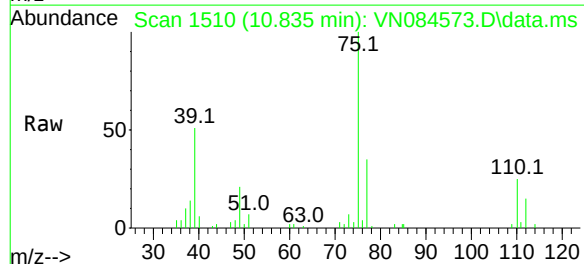
#53
t-1,3-Dichloropropene
Concen: 9.771 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN084573.D
Acq: 30 Oct 2024 12:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tgt Ion: 75 Resp: 33220
Ion Ratio Lower Upper
75 100
77 34.6 25.4 38.0

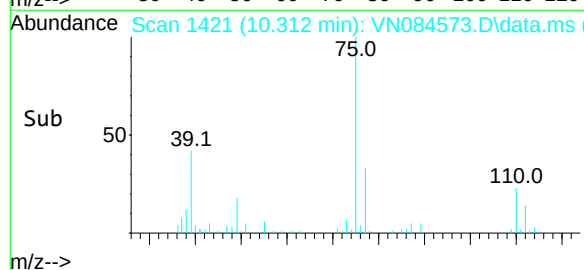
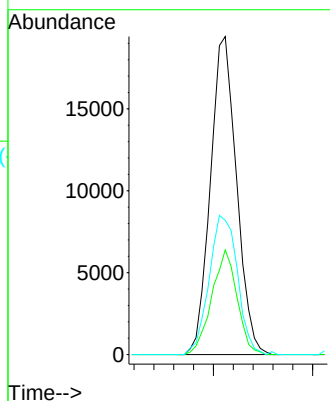
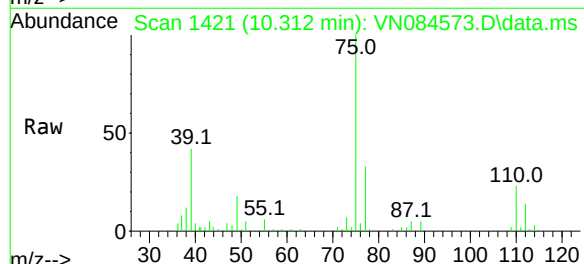
Manual Integrations
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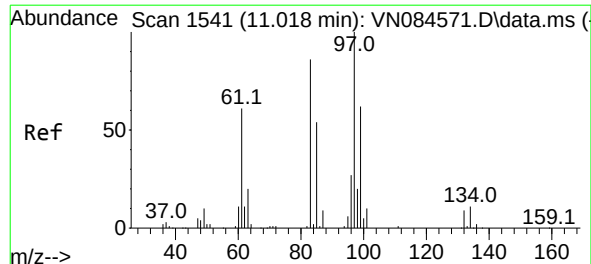
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#54
cis-1,3-Dichloropropene
Concen: 9.883 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN084573.D
Acq: 30 Oct 2024 12:57

Tgt Ion: 75 Resp: 35562
Ion Ratio Lower Upper
75 100
77 32.9 24.2 36.2
39 42.2 38.7 58.1





#55

1,1,2-Trichloroethane

Concen: 10.303 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. 0.006 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 97 Resp: 21367

Ion Ratio Lower Upper

97 100

83 82.4 71.0 106.4

85 56.9 41.7 62.5

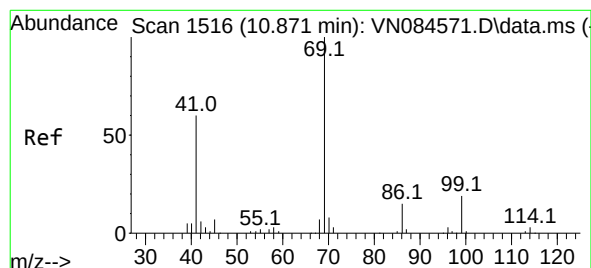
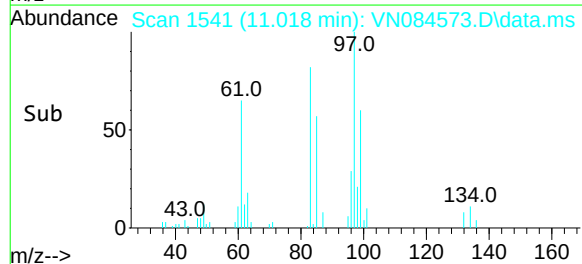
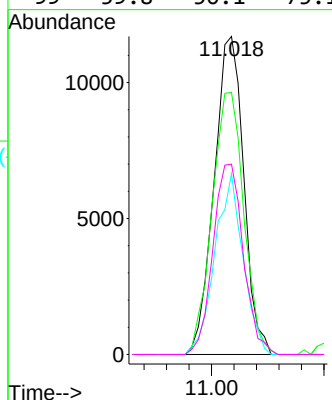
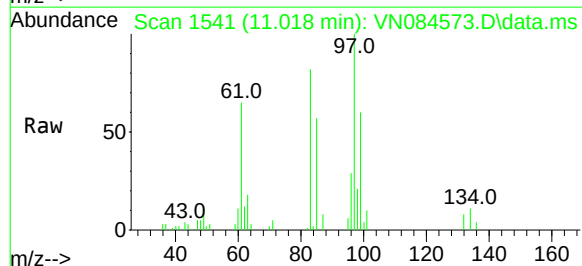
99 59.8 50.1 75.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#56

Ethyl methacrylate

Concen: 9.936 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

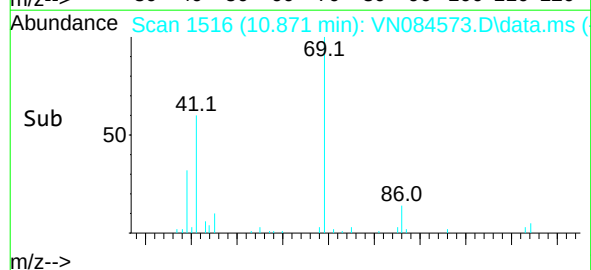
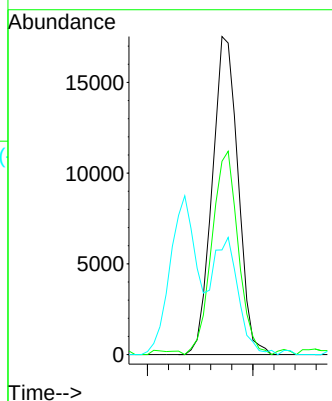
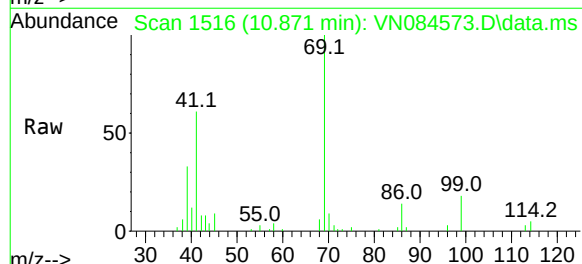
Tgt Ion: 69 Resp: 29804

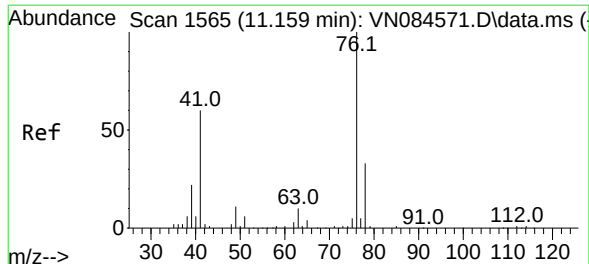
Ion Ratio Lower Upper

69 100

41 65.4 53.3 79.9

39 37.1 28.8 43.2





#57

1,3-Dichloropropane

Concen: 10.056 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. 0.006 min

Lab File: VN084573.D

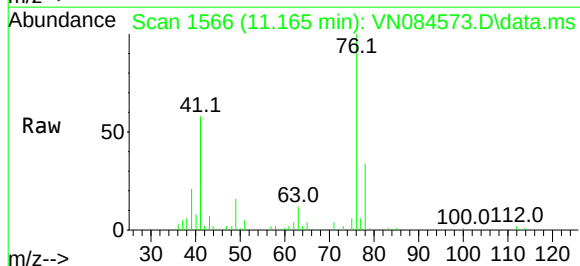
Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010



Tgt Ion: 76 Resp: 35790

Ion Ratio Lower Upper

76 100

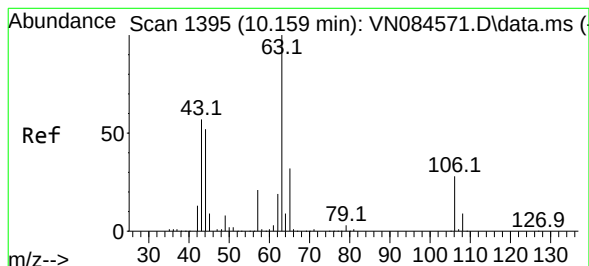
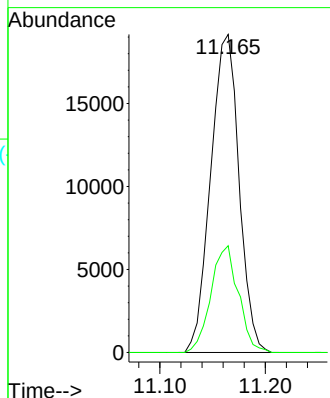
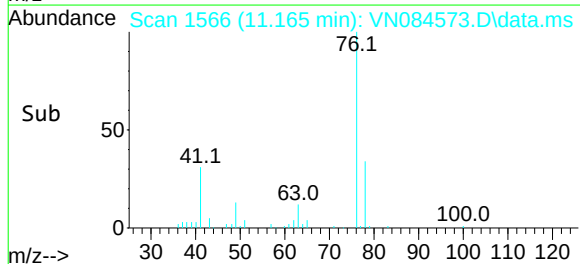
78 32.5 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#58

2-Chloroethyl Vinyl ether

Concen: 47.583 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN084573.D

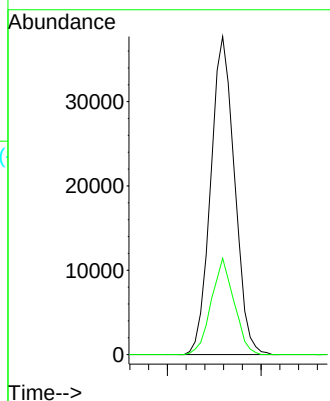
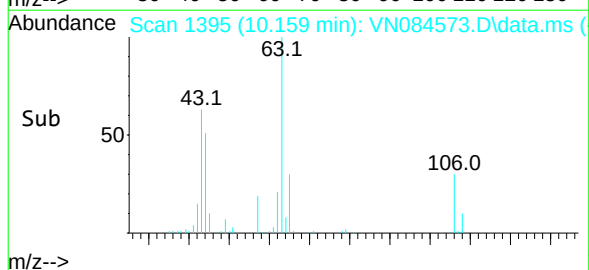
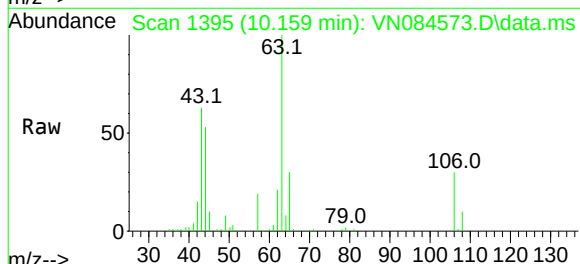
Acq: 30 Oct 2024 12:57

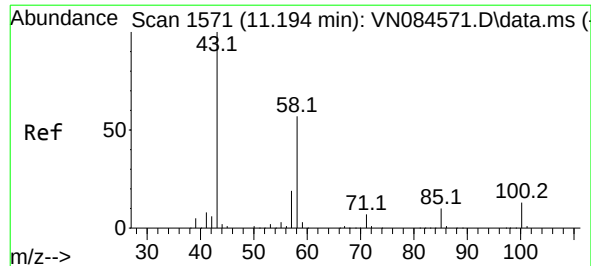
Tgt Ion: 63 Resp: 66790

Ion Ratio Lower Upper

63 100

106 28.9 21.8 32.6





#59

2-Hexanone

Concen: 50.273 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 43 Resp: 92772

Ion Ratio Lower Upper

43 100

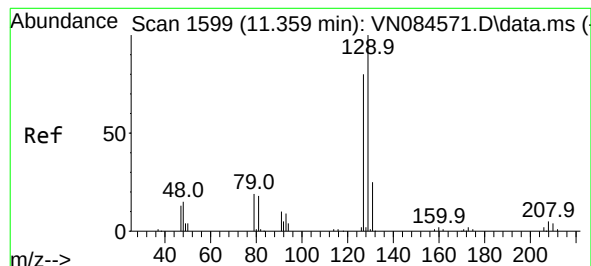
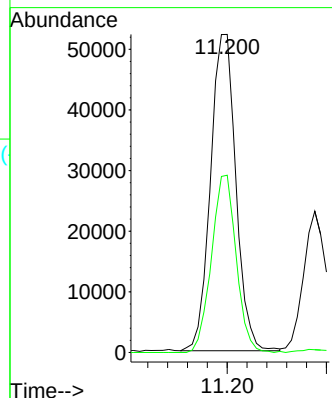
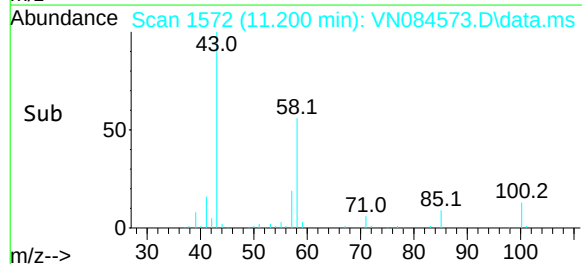
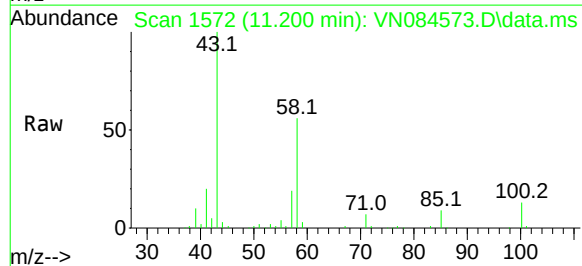
58 54.5 27.3 81.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#60

Dibromochloromethane

Concen: 10.383 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN084573.D

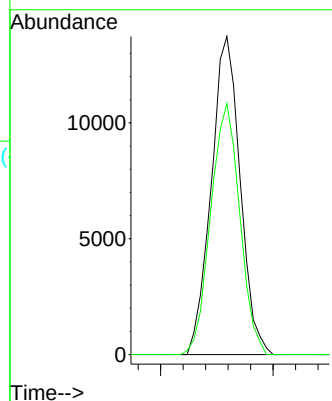
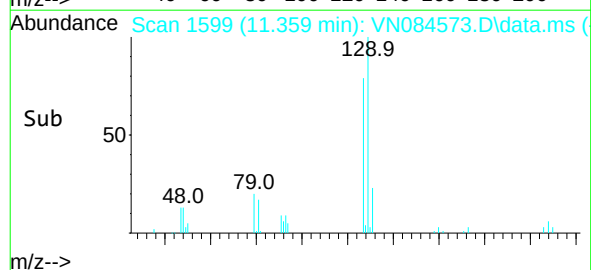
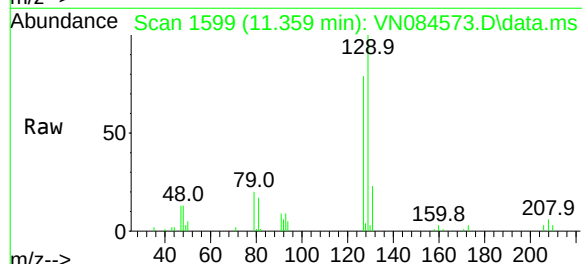
Acq: 30 Oct 2024 12:57

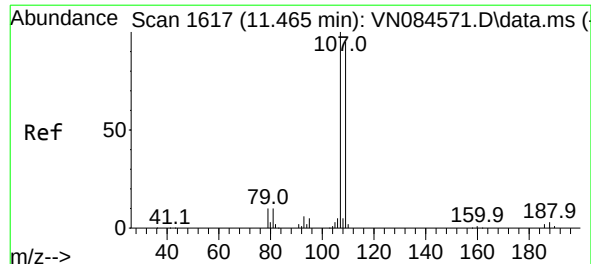
Tgt Ion:129 Resp: 24541

Ion Ratio Lower Upper

129 100

127 79.2 38.3 114.9





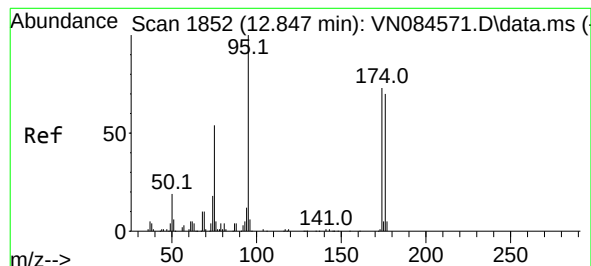
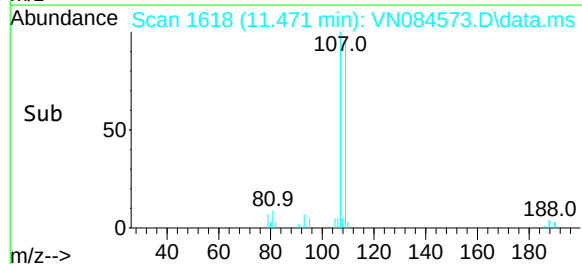
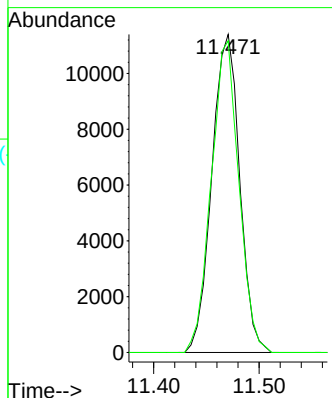
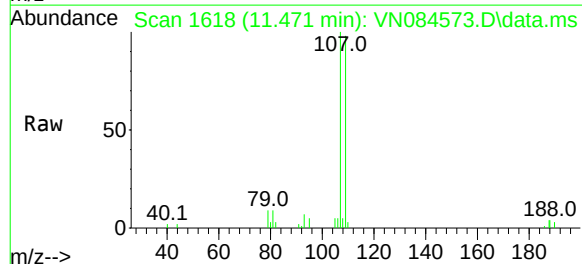
#61
1,2-Dibromoethane
Concen: 9.839 ug/l
RT: 11.471 min Scan# 1617
Delta R.T. 0.006 min
Lab File: VN084573.D
Acq: 30 Oct 2024 12:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 107 Resp: 20895
Ion Ratio Lower Upper
107 100
109 97.4 75.4 113.0

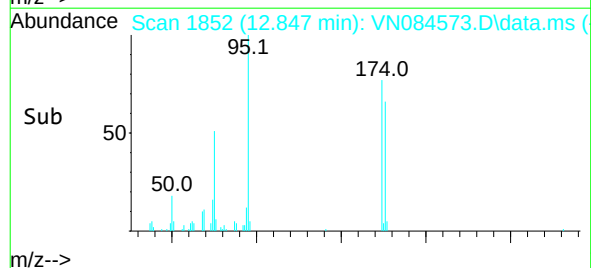
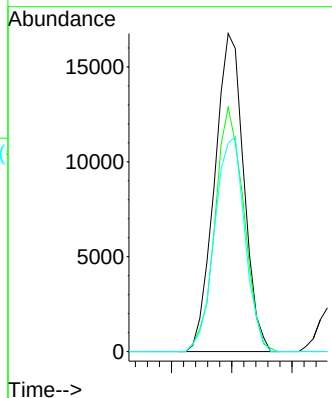
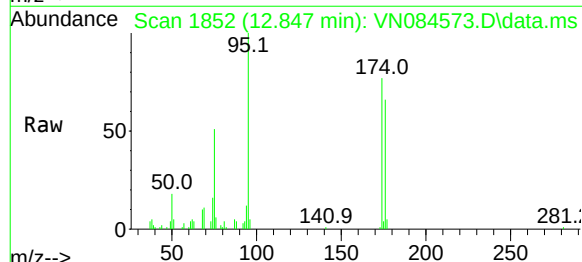
Manual Integrations
APPROVED

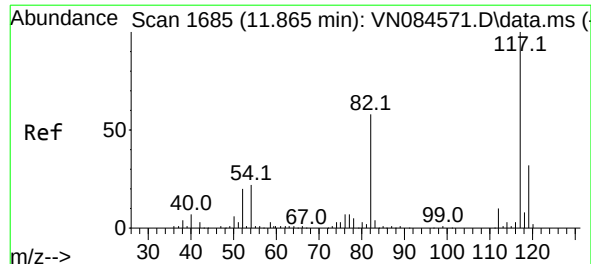
Reviewed By : Semsettin Yesilyurt 11/04/2024
Supervised By : Mahesh Dadoda 11/04/2024



#62
4-Bromofluorobenzene
Concen: 9.689 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084573.D
Acq: 30 Oct 2024 12:57

Tgt Ion: 95 Resp: 28191
Ion Ratio Lower Upper
95 100
174 75.6 0.0 145.2
176 70.1 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:117 Resp: 270408

Ion Ratio Lower Upper

117 100

82 58.0 47.2 70.8

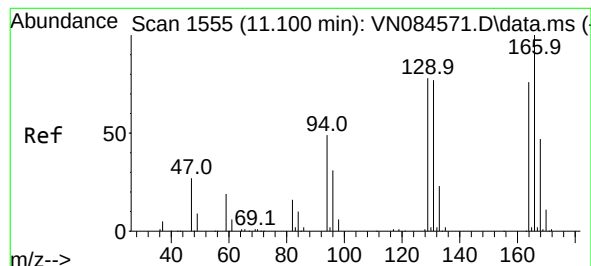
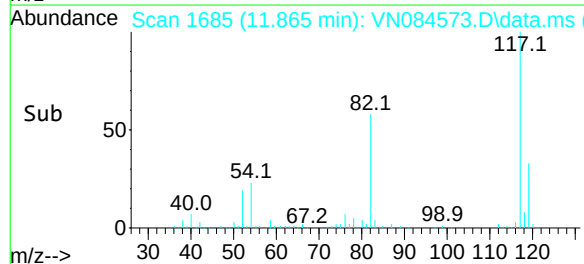
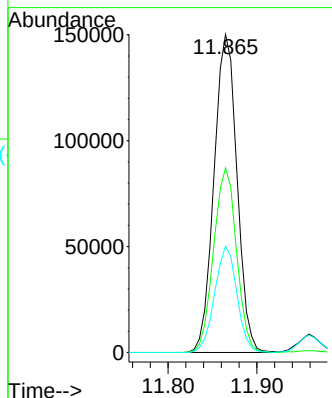
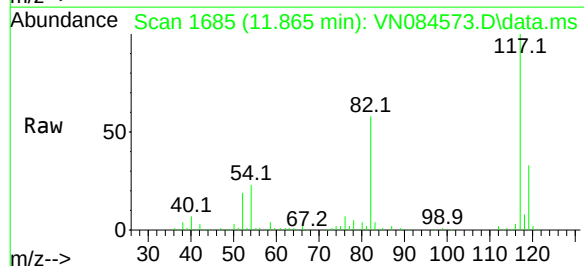
119 33.4 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#64

Tetrachloroethene

Concen: 10.439 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Tgt Ion:164 Resp: 18777

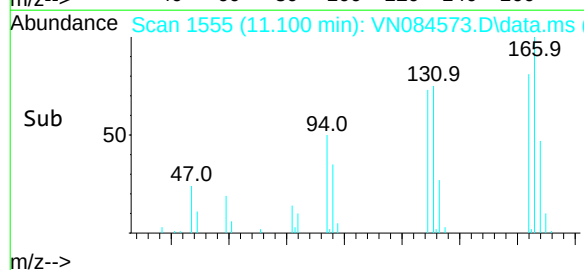
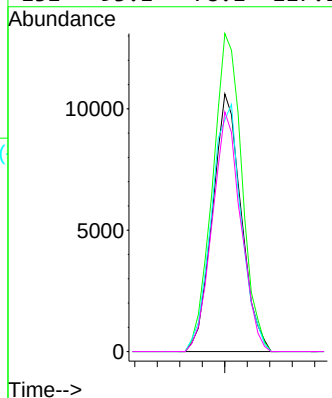
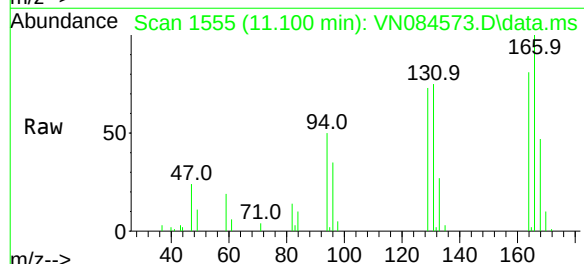
Ion Ratio Lower Upper

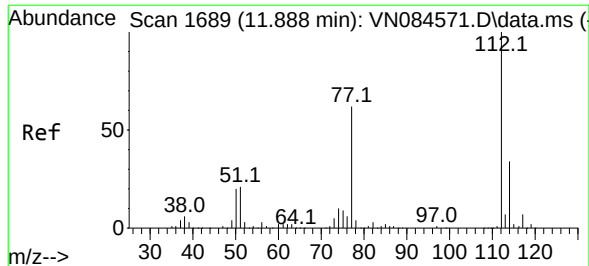
164 100

166 123.4 101.0 151.4

129 90.0 80.8 121.2

131 93.1 78.1 117.1





#65

Chlorobenzene

Concen: 10.041 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion:112 Resp: 60746

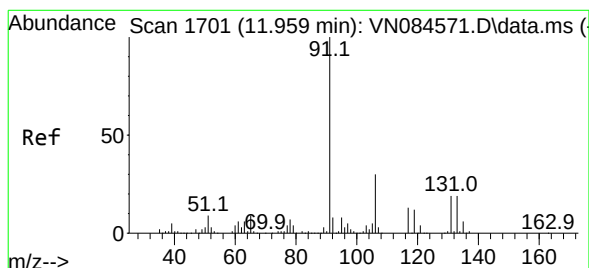
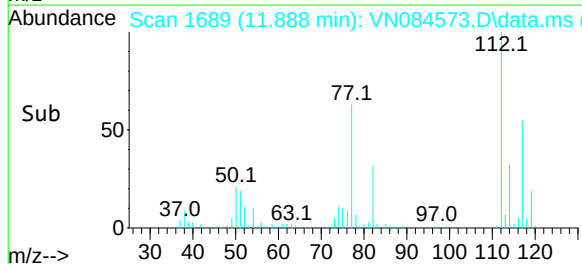
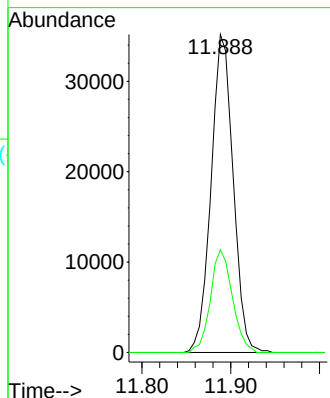
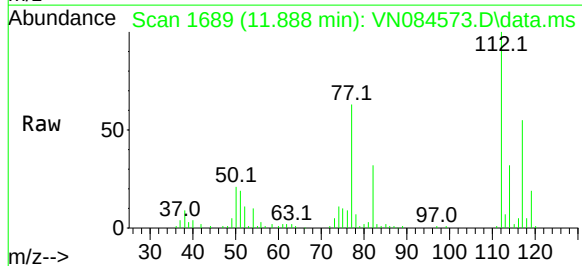
Ion Ratio Lower Upper

112 100

114 32.3 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#66

1,1,1,2-Tetrachloroethane

Concen: 10.018 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

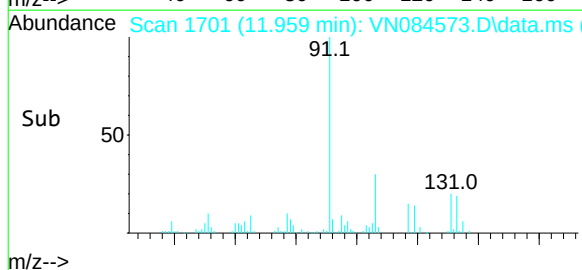
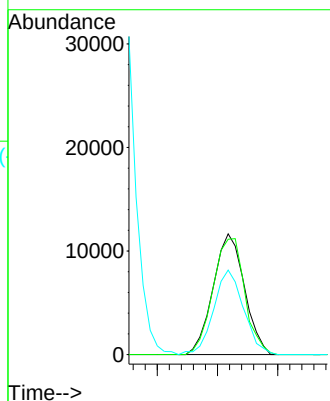
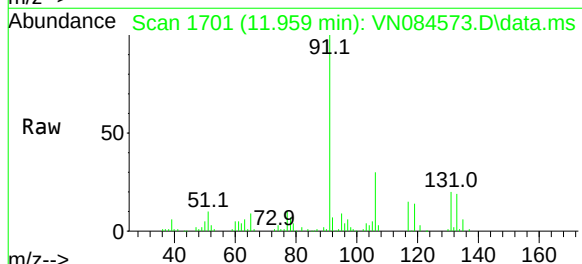
Tgt Ion:131 Resp: 21080

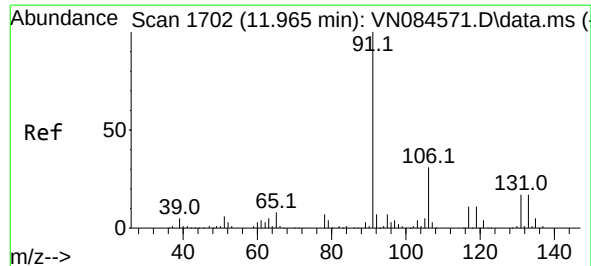
Ion Ratio Lower Upper

131 100

133 97.6 47.9 143.7

119 66.8 32.8 98.3





#67

Ethyl Benzene

Concen: 10.067 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.006 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 91 Resp: 101653

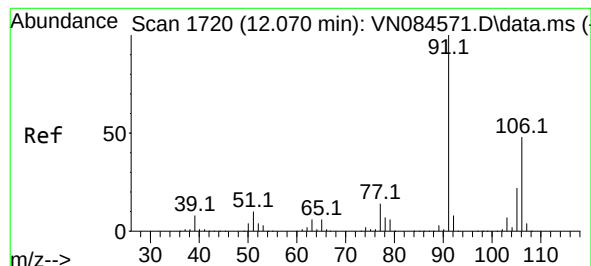
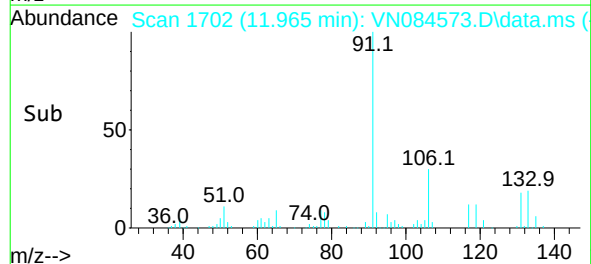
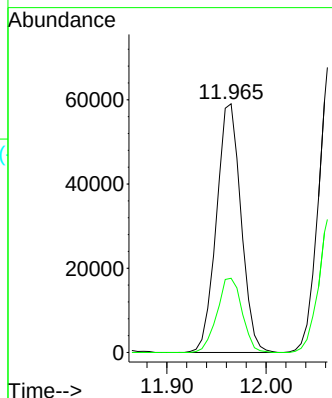
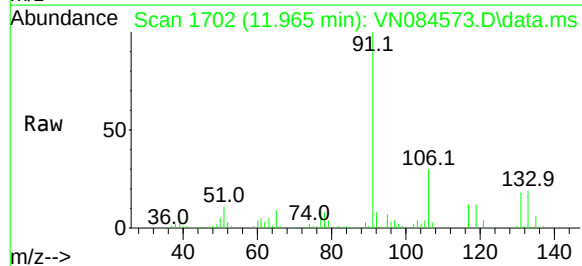
Ion Ratio Lower Upper

91 100

106 29.8 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#68

m/p-Xylenes

Concen: 19.842 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN084573.D

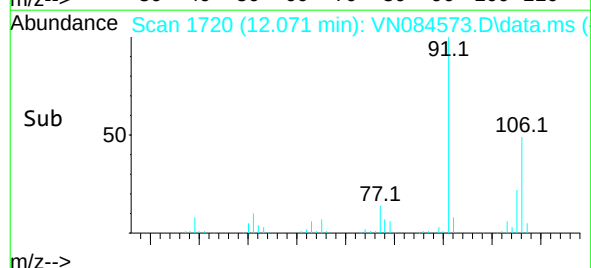
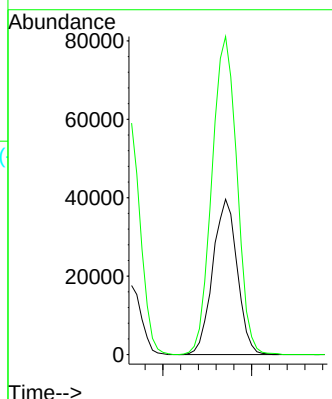
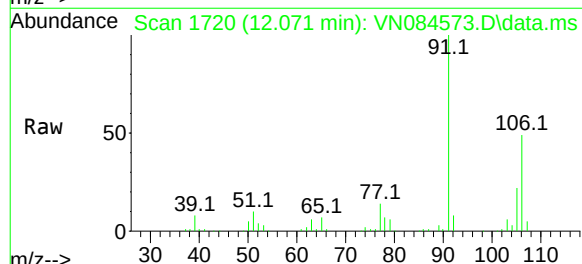
Acq: 30 Oct 2024 12:57

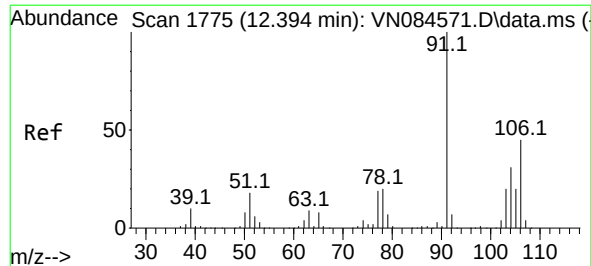
Tgt Ion:106 Resp: 75857

Ion Ratio Lower Upper

106 100

91 209.6 167.1 250.7





#69

o-Xylene

Concen: 10.261 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:106 Resp: 36696

Ion Ratio Lower Upper

106 100

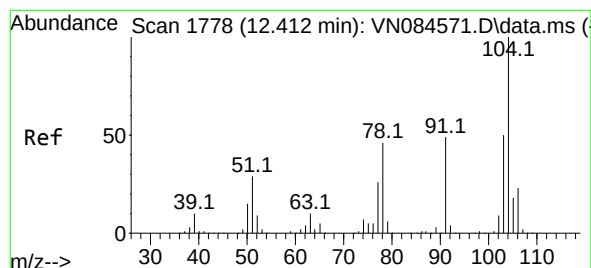
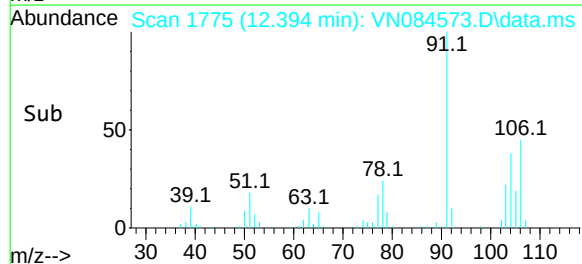
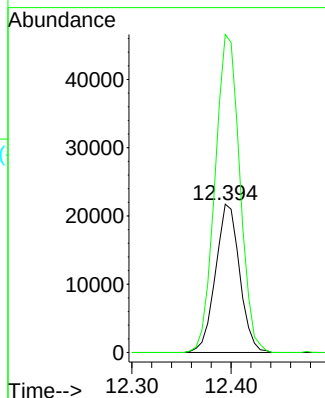
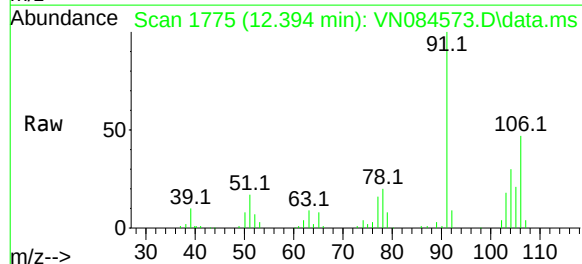
91 220.1 110.2 330.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#70

Styrene

Concen: 9.916 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

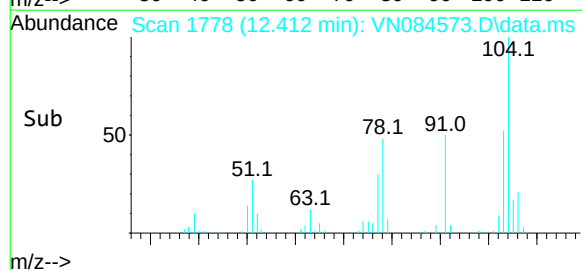
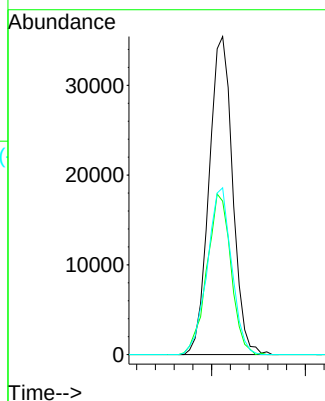
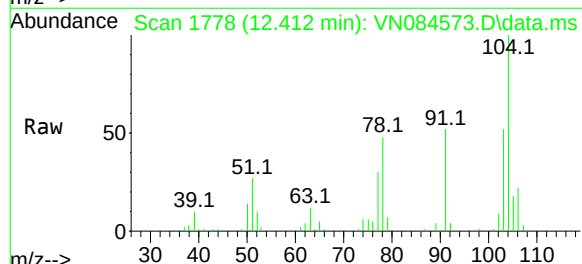
Tgt Ion:104 Resp: 61865

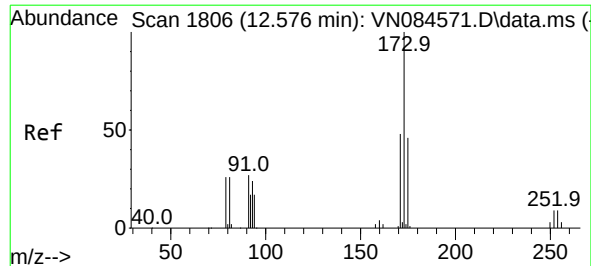
Ion Ratio Lower Upper

104 100

78 51.5 42.7 64.1

103 54.2 43.6 65.4





#71

Bromoform

Concen: 9.871 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

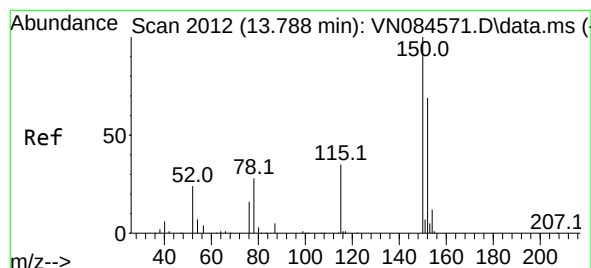
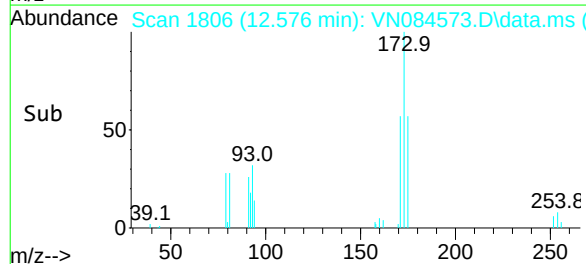
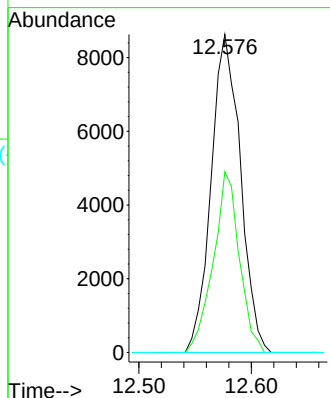
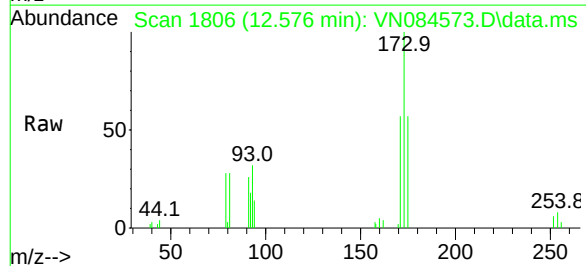
ClientSampleId :

VSTDIC010

Tgt Ion:	173	Resp:	15630
Ion Ratio	Lower	Upper	
173	100		
175	50.6	23.5	70.6
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

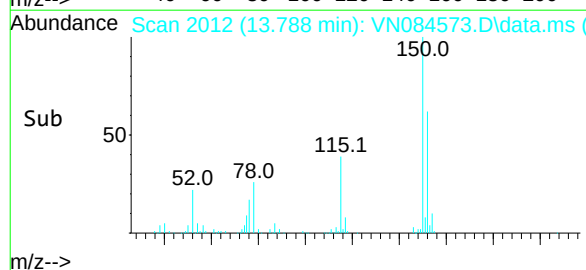
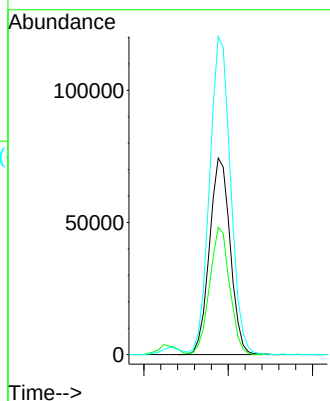
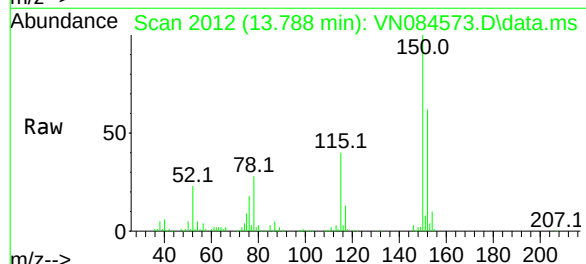
RT: 13.788 min Scan# 2012

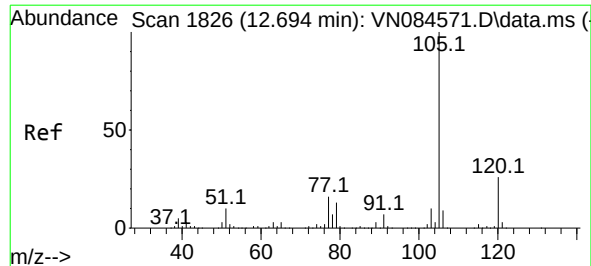
Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Tgt Ion:	152	Resp:	127178
Ion Ratio	Lower	Upper	
152	100		
115	62.6	31.3	93.9
150	163.6	0.0	349.8





#73

Isopropylbenzene

Concen: 10.287 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 105 Resp: 91683

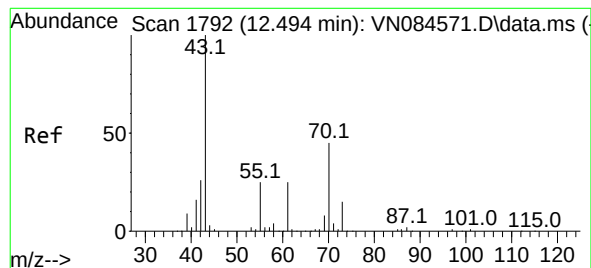
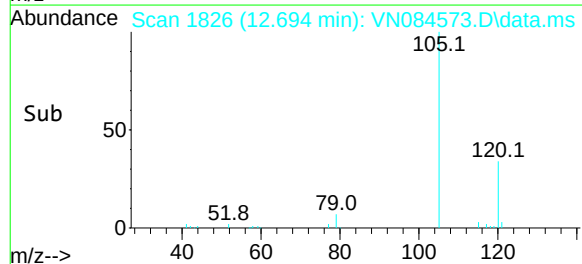
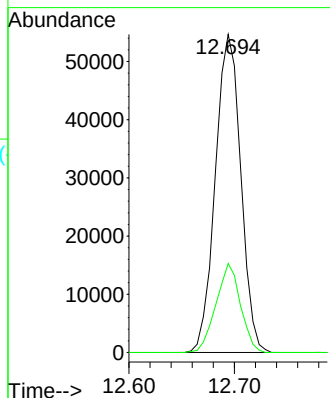
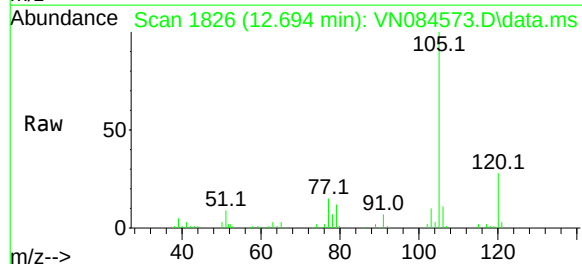
Ion Ratio Lower Upper

105 100

120 26.8 12.9 38.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#74

N-ethyl acetate

Concen: 10.240 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Tgt Ion: 43 Resp: 38841

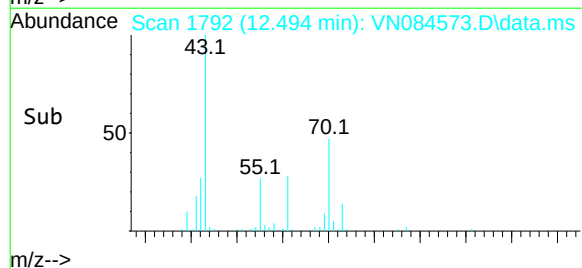
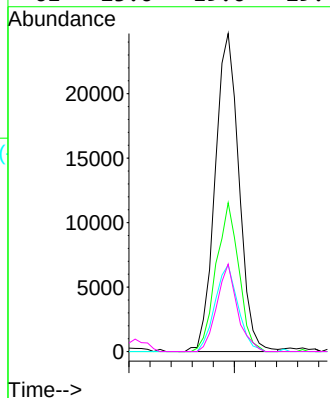
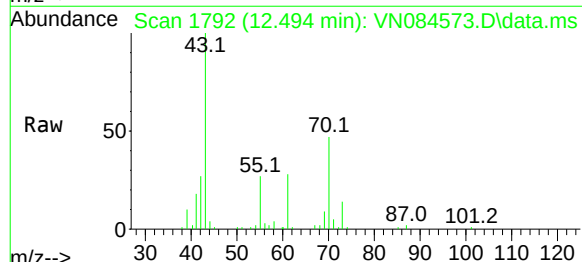
Ion Ratio Lower Upper

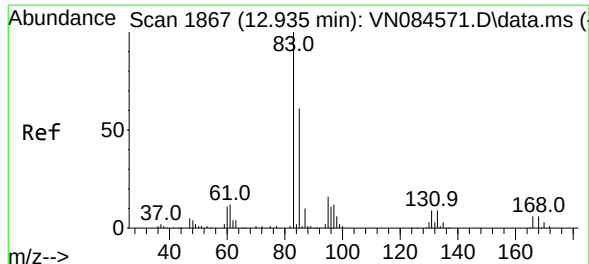
43 100

70 44.5 34.4 51.6

55 26.2 19.6 29.4

61 23.6 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 10.175 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

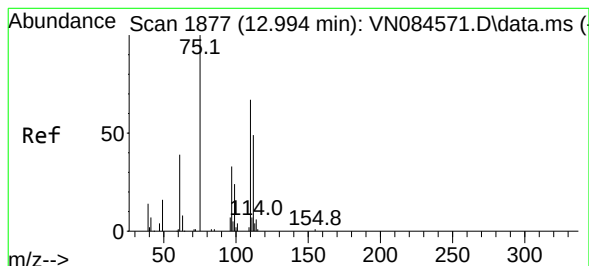
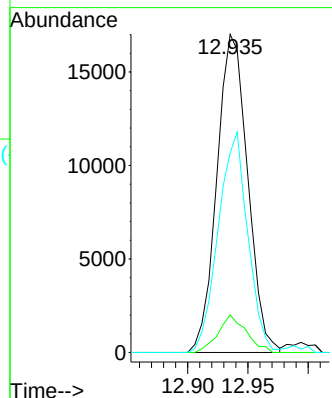
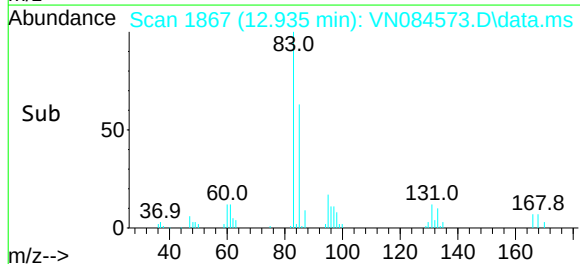
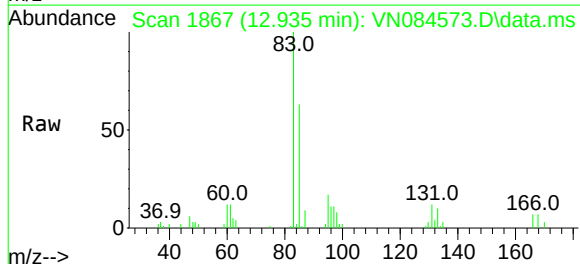
VSTDIC010

Tgt Ion:	83	Resp:	30270
Ion	Ratio	Lower	Upper
83	100		
131	10.8	4.9	14.7
85	66.4	31.9	95.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#76

1,2,3-Trichloropropane

Concen: 10.336 ug/l m

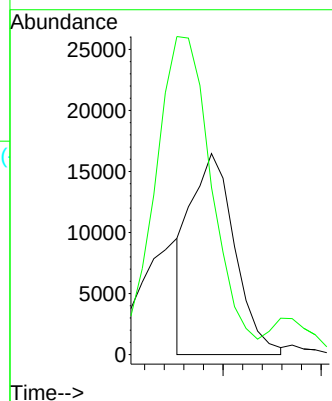
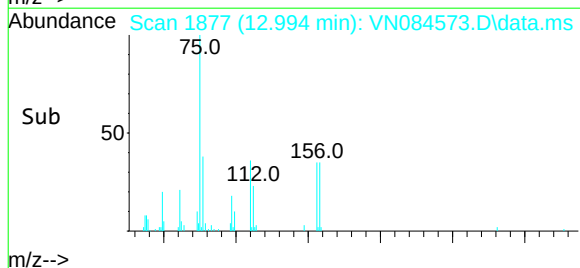
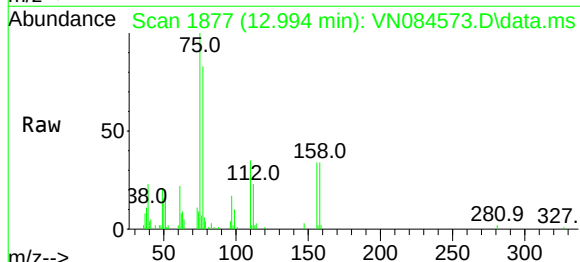
RT: 12.994 min Scan# 1877

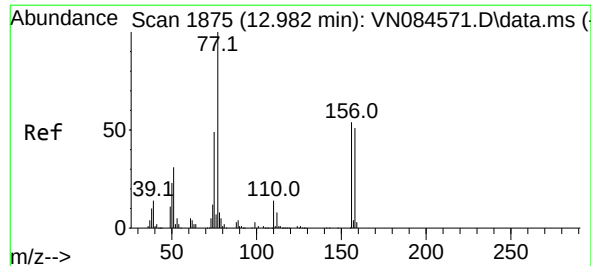
Delta R.T. 0.006 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Tgt Ion:	75	Resp:	25940
Ion	Ratio	Lower	Upper
75	100		
77	202.8	96.9	290.7





#77

Bromobenzene

Concen: 10.012 ug/l

RT: 12.982 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VN084573.D

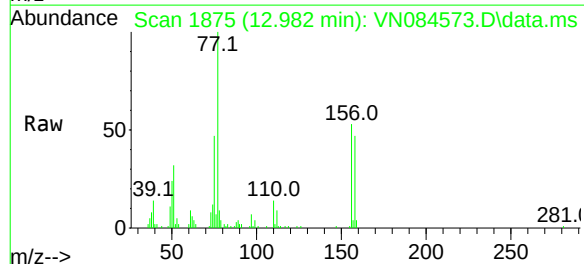
Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

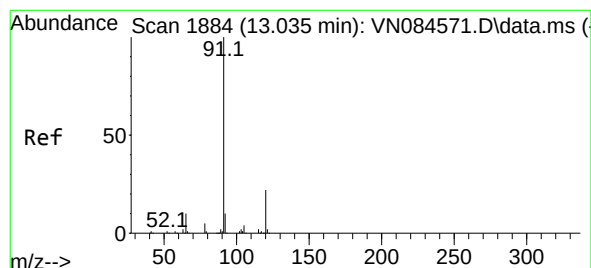
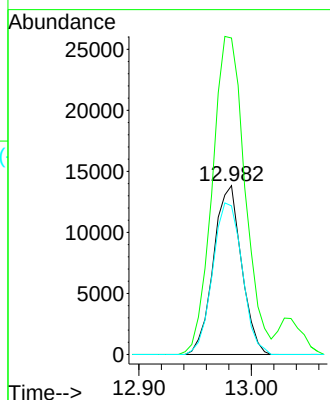
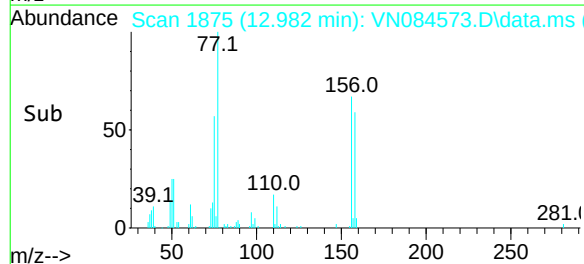
VSTDICC010



Tgt Ion:	156	Resp:	23987
Ion	Ratio	Lower	Upper
156	100		
77	219.4	115.1	345.3
158	94.5	48.9	146.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#78

n-propylbenzene

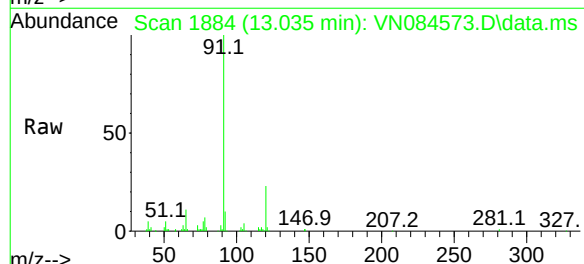
Concen: 10.199 ug/l

RT: 13.035 min Scan# 1884

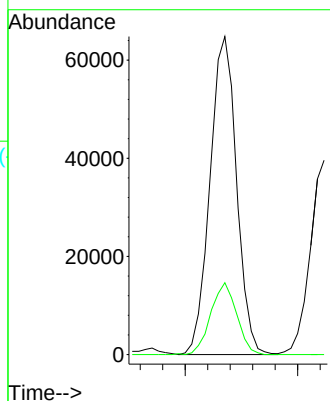
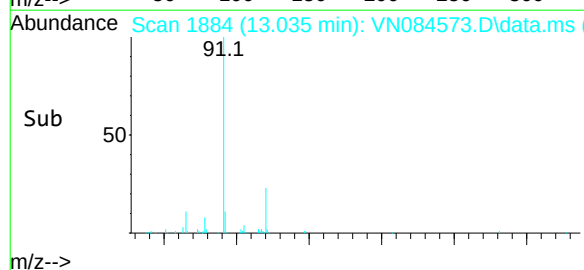
Delta R.T. 0.000 min

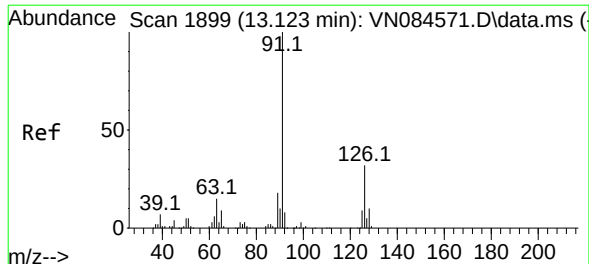
Lab File: VN084573.D

Acq: 30 Oct 2024 12:57



Tgt Ion:	91	Resp:	106518
Ion	Ratio	Lower	Upper
91	100		
120	22.0	10.8	32.4





#79

2-Chlorotoluene

Concen: 10.064 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 91 Resp: 68678

Ion Ratio Lower Upper

91 100

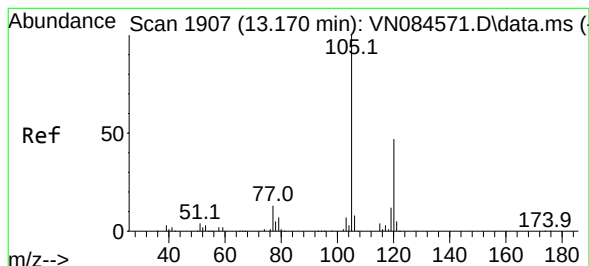
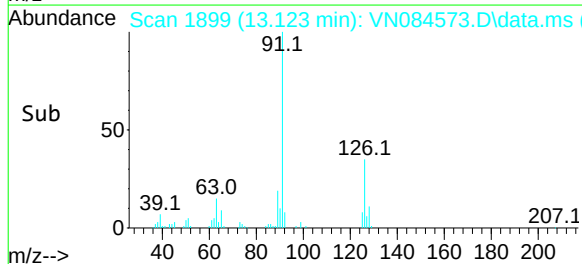
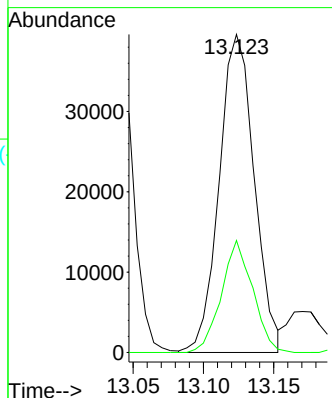
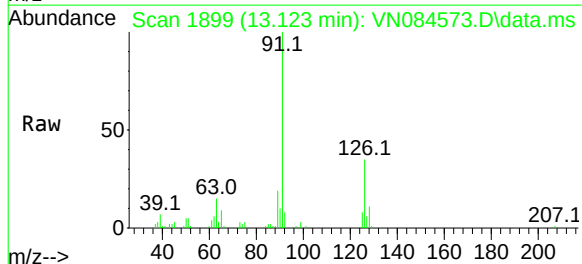
126 31.5 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#80

1,3,5-Trimethylbenzene

Concen: 10.461 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN084573.D

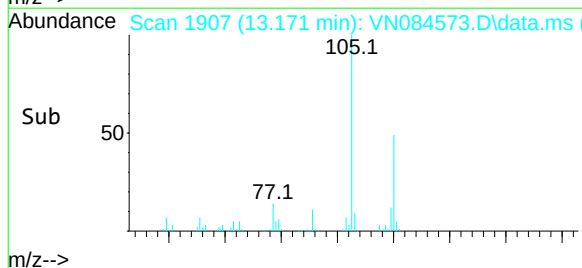
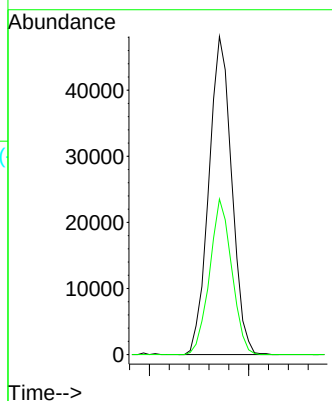
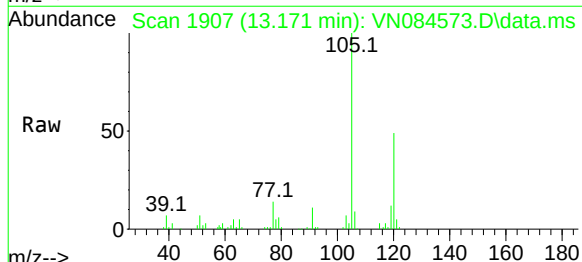
Acq: 30 Oct 2024 12:57

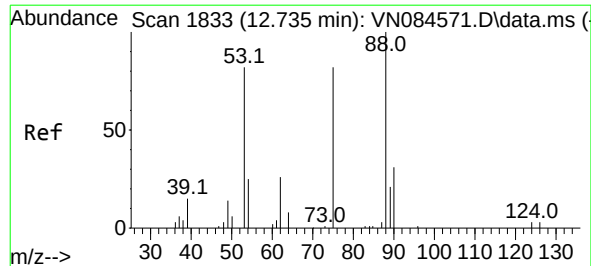
Tgt Ion:105 Resp: 77273

Ion Ratio Lower Upper

105 100

120 47.2 23.7 71.1





#81

trans-1,4-Dichloro-2-butene

Concen: 10.577 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

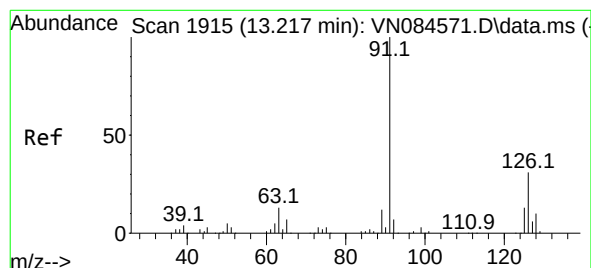
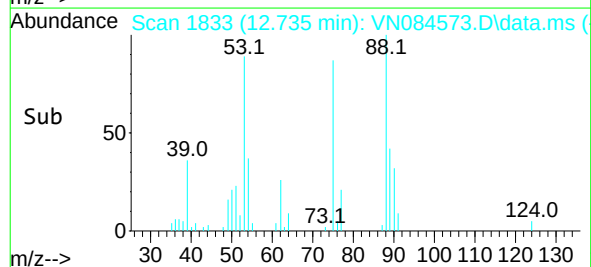
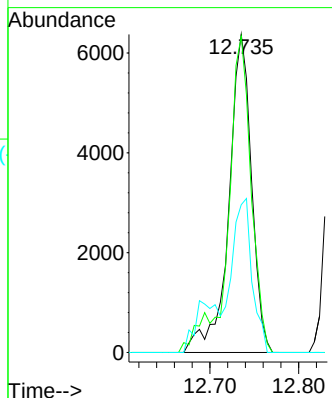
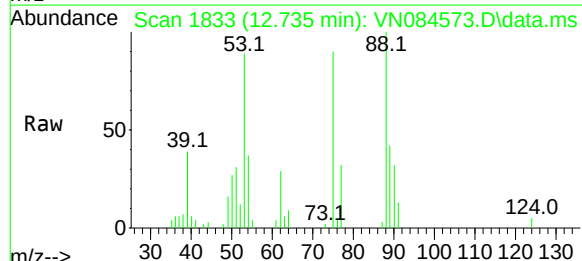
ClientSampleId :

VSTDIC010

Tgt Ion:	75	Resp:	11334
Ion	Ratio	Lower	Upper
75	100		
53	92.2	78.0	117.0
89	43.2	35.5	53.3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#82

4-Chlorotoluene

Concen: 9.996 ug/l

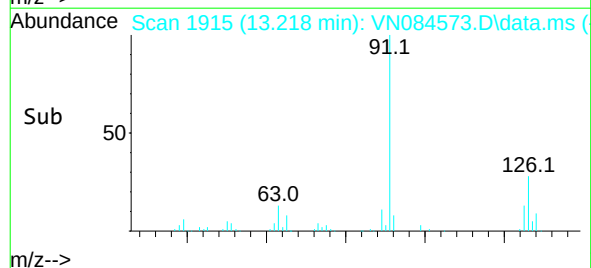
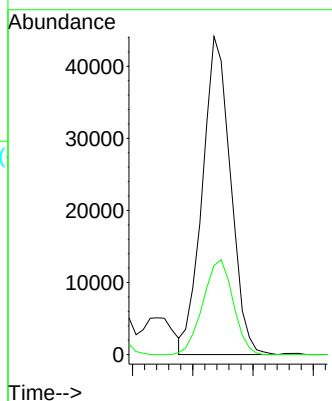
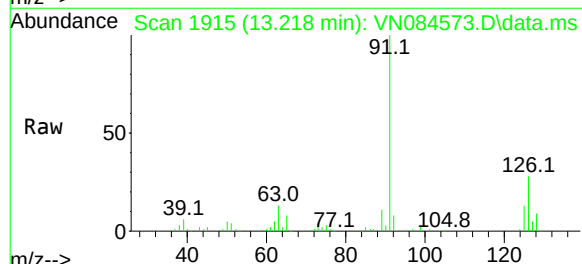
RT: 13.218 min Scan# 1915

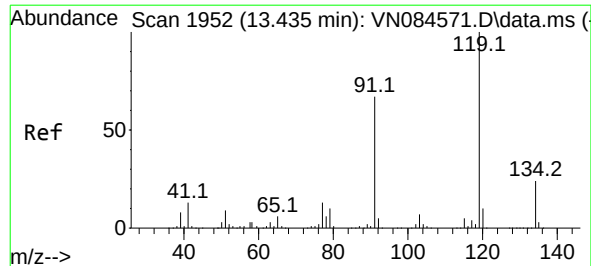
Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Tgt Ion:	91	Resp:	71787
Ion	Ratio	Lower	Upper
91	100		
126	31.9	15.7	47.1





#83

tert-Butylbenzene

Concen: 10.240 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

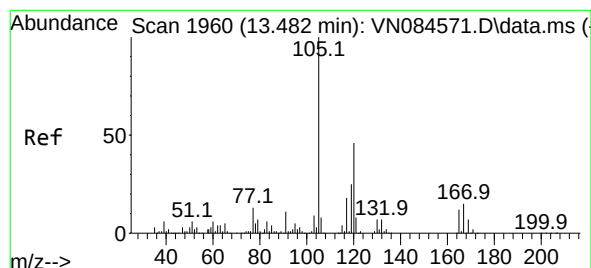
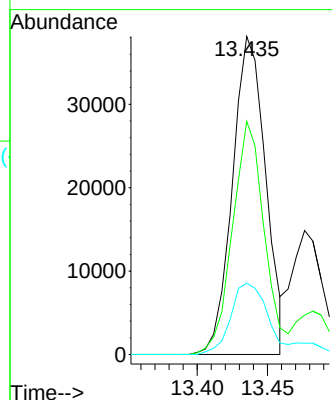
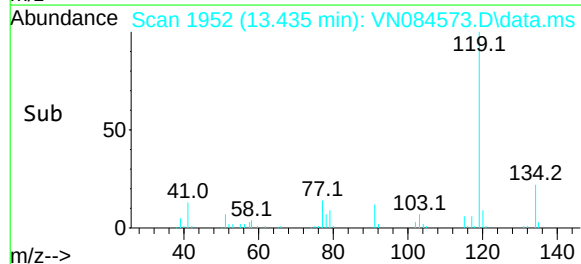
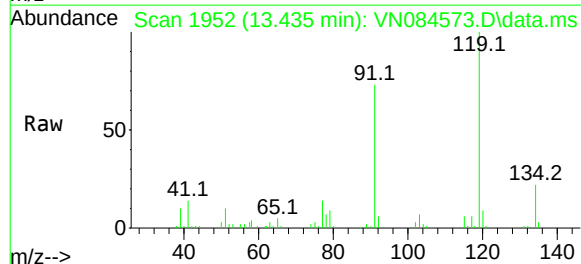
ClientSampleId :

VSTDIC010

Tgt Ion:	119	Resp:	62600
Ion	Ratio	Lower	Upper
119	100		
91	70.4	34.1	102.3
134	24.7	12.8	38.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#84

1,2,4-Trimethylbenzene

Concen: 10.258 ug/l

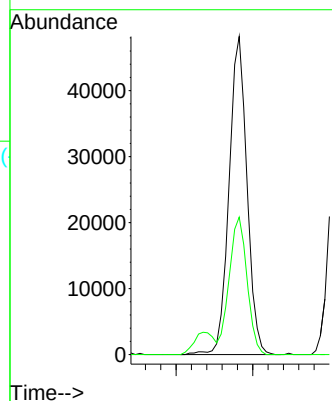
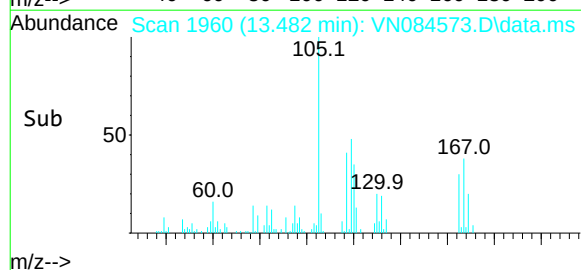
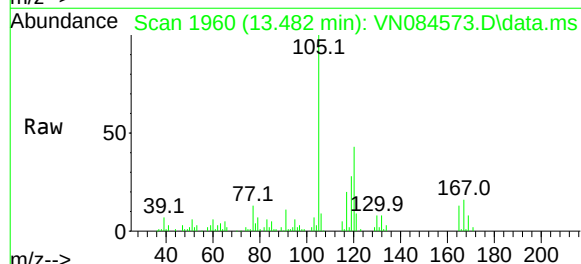
RT: 13.482 min Scan# 1960

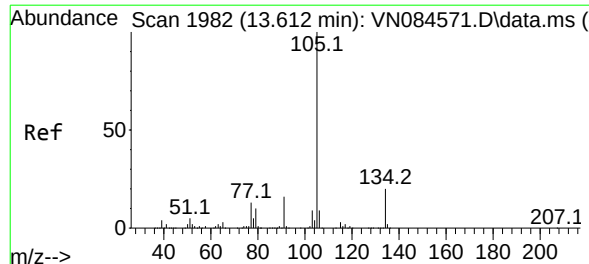
Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Tgt Ion:	105	Resp:	78207
Ion	Ratio	Lower	Upper
105	100		
120	43.2	22.3	66.8





#85

sec-Butylbenzene

Concen: 10.361 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. -0.006 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:105 Resp: 89469

Ion Ratio Lower Upper

105 100

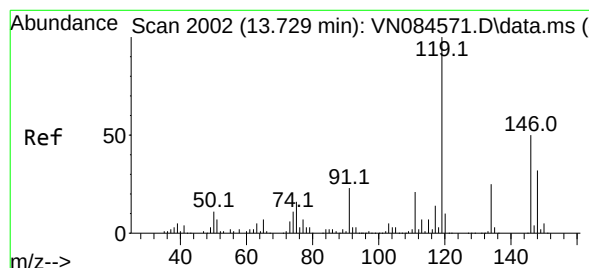
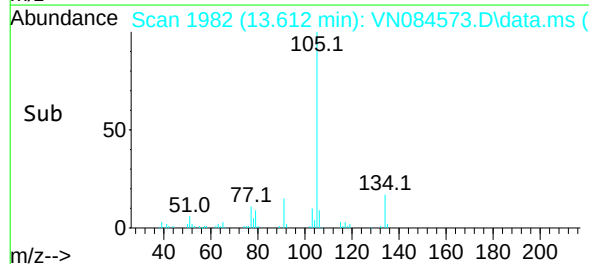
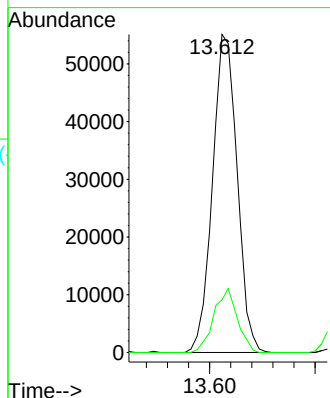
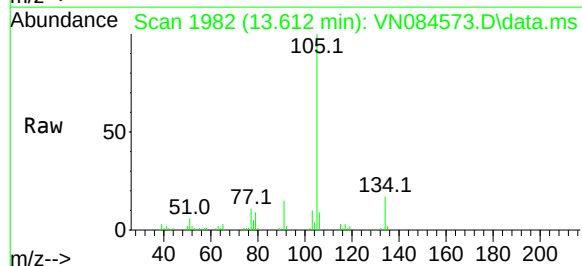
134 19.1 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#86

p-Isopropyltoluene

Concen: 10.210 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

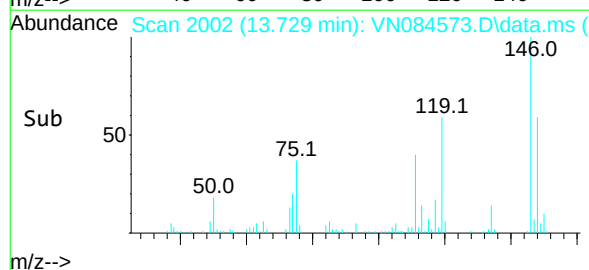
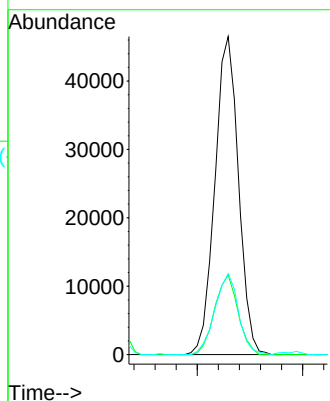
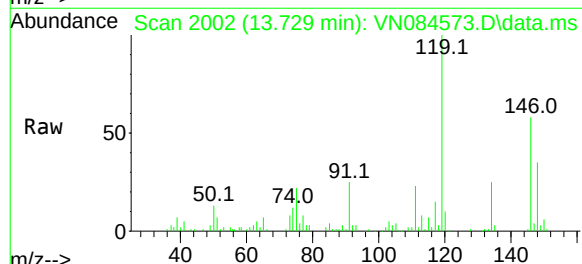
Tgt Ion:119 Resp: 72307

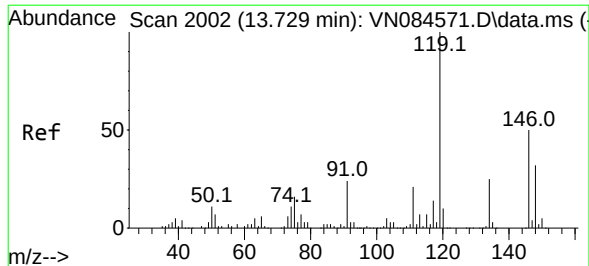
Ion Ratio Lower Upper

119 100

134 24.8 12.6 37.8

91 25.5 12.4 37.2





#87

1,3-Dichlorobenzene

Concen: 9.802 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN084573.D

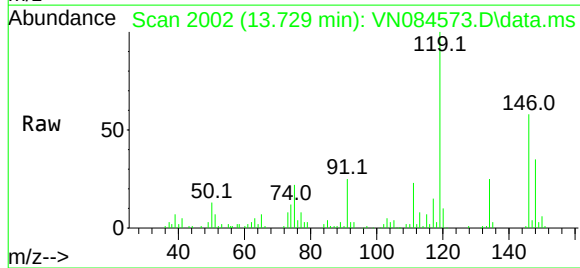
Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

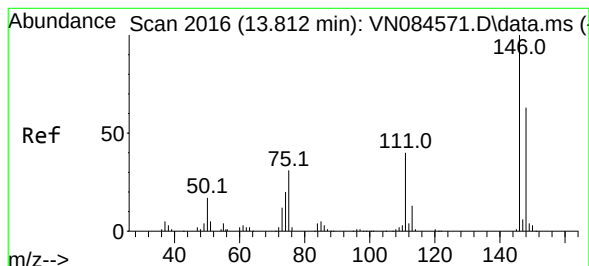
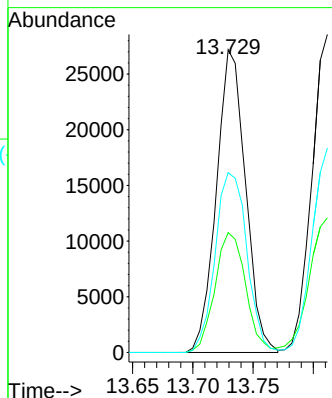
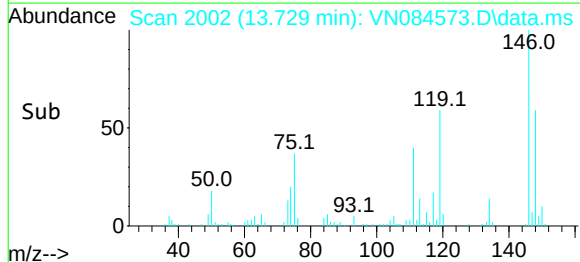
VSTDICC010



Tgt Ion:	146	Resp:	45832
Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.8	65.3
148	64.6	31.9	95.7

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#88

1,4-Dichlorobenzene

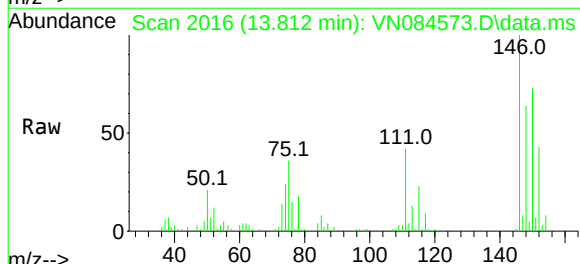
Concen: 10.276 ug/l

RT: 13.812 min Scan# 2016

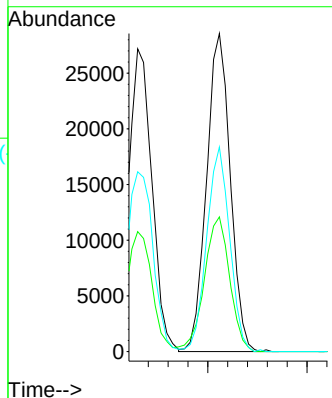
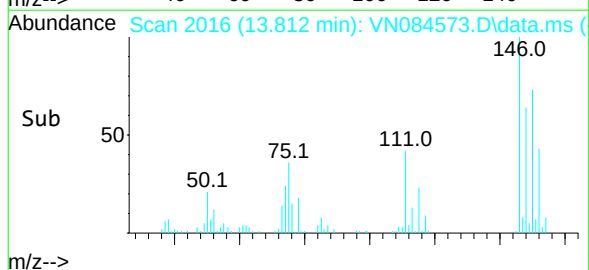
Delta R.T. -0.000 min

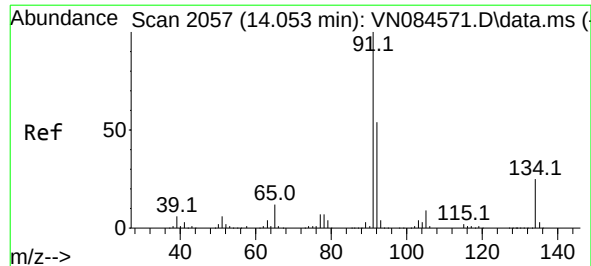
Lab File: VN084573.D

Acq: 30 Oct 2024 12:57



Tgt Ion:	146	Resp:	47483
Ion	Ratio	Lower	Upper
146	100		
111	45.2	21.2	63.6
148	62.4	31.9	95.9





#89

n-Butylbenzene

Concen: 9.433 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

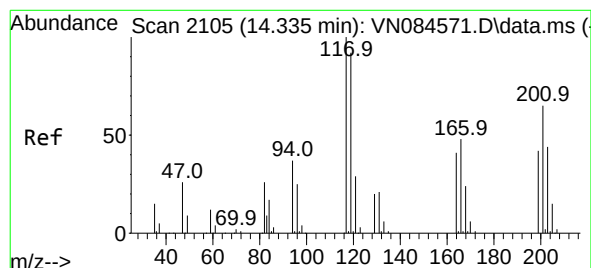
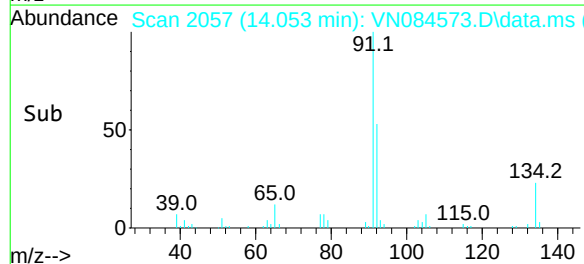
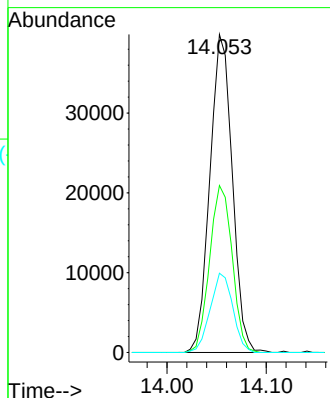
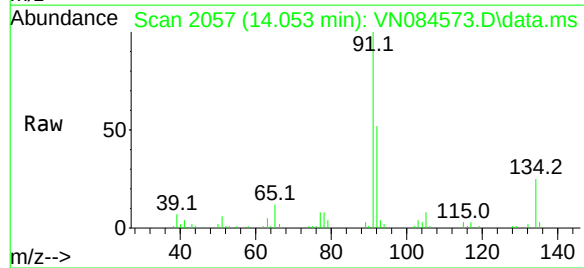
VSTDICC010

Tgt Ion:	91	Resp:	62495
Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.6	79.7
134	25.1	12.3	36.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#90

Hexachloroethane

Concen: 10.194 ug/l

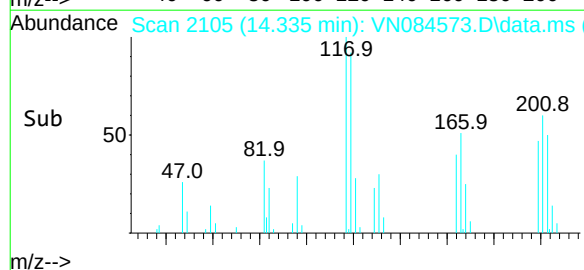
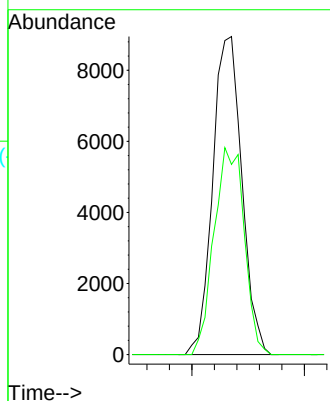
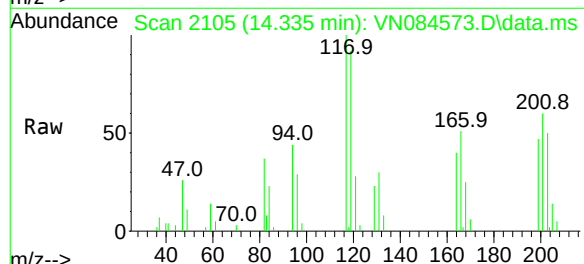
RT: 14.335 min Scan# 2105

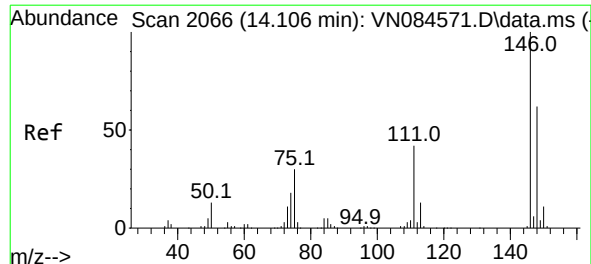
Delta R.T. 0.006 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Tgt Ion:	117	Resp:	16100
Ion	Ratio	Lower	Upper
117	100		
201	67.4	34.4	103.2





#91

1,2-Dichlorobenzene

Concen: 9.805 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

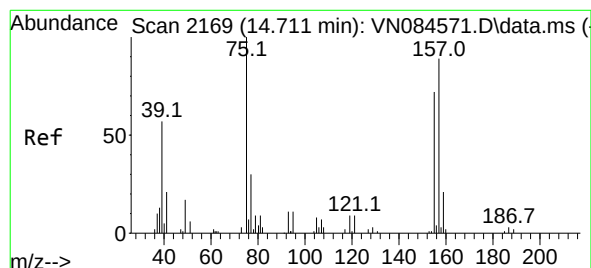
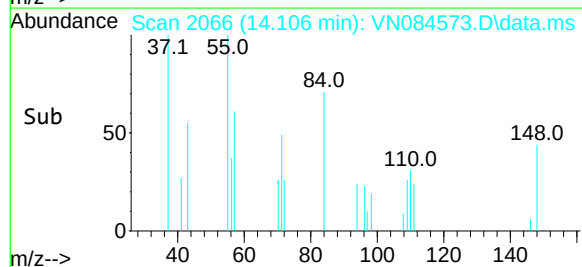
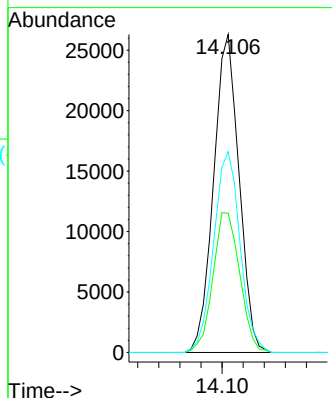
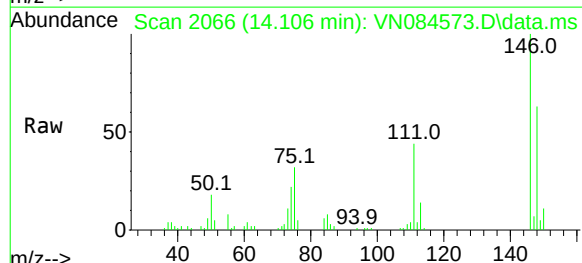
ClientSampleId :

VSTDICC010

Tgt Ion:	146	Resp:	44055
Ion	Ratio	Lower	Upper
146	100		
111	46.3	22.0	66.0
148	65.6	32.1	96.3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 9.531 ug/l

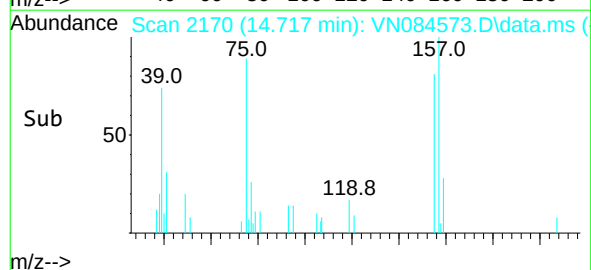
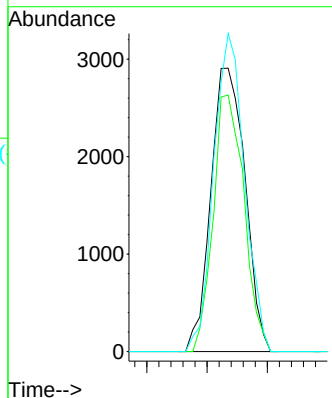
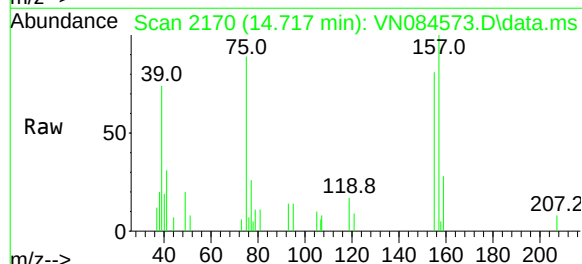
RT: 14.717 min Scan# 2170

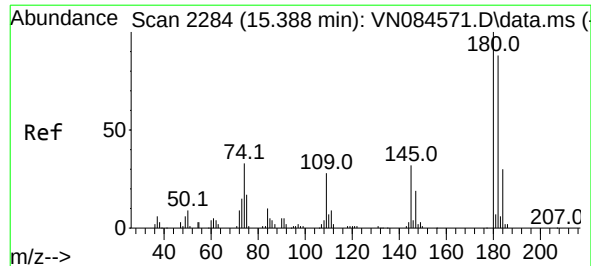
Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Tgt Ion:	75	Resp:	5744
Ion	Ratio	Lower	Upper
75	100		
155	81.3	38.1	114.5
157	101.0	49.6	149.0





#93

1,2,4-Trichlorobenzene

Concen: 9.114 ug/l

RT: 15.394 min Scan# 2284

Delta R.T. 0.006 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

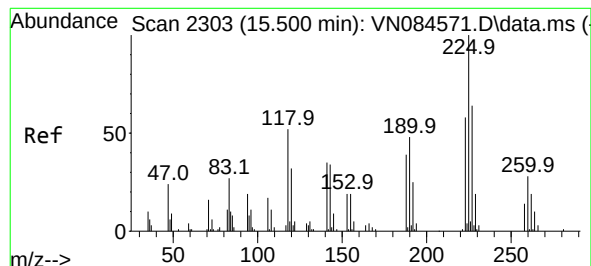
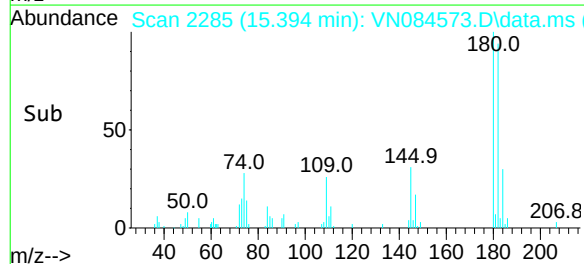
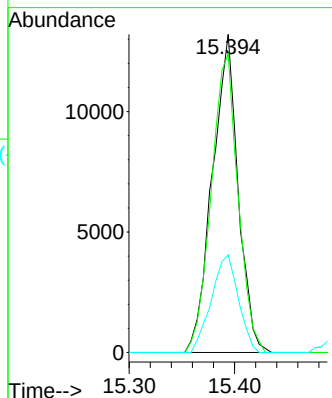
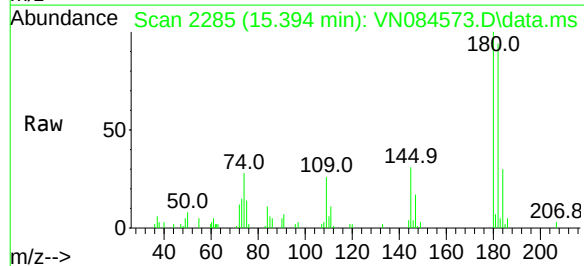
VSTDIC010

Tgt Ion:	180	Resp:	22413
Ion Ratio	Lower	Upper	
180	100		
182	97.6	47.0	141.0
145	32.1	16.4	49.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#94

Hexachlorobutadiene

Concen: 9.503 ug/l

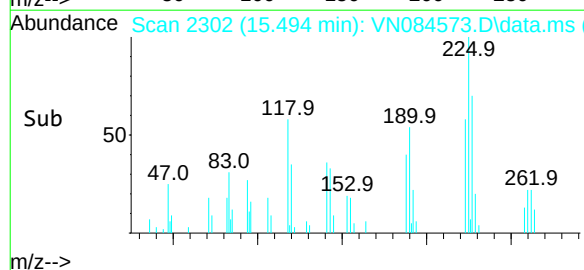
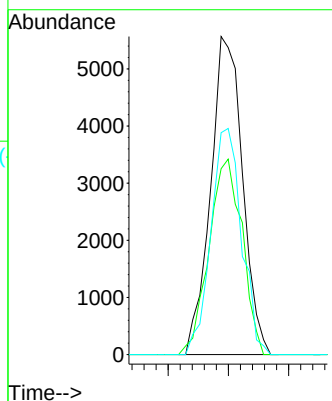
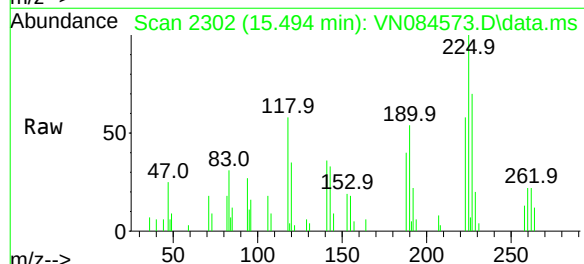
RT: 15.494 min Scan# 2302

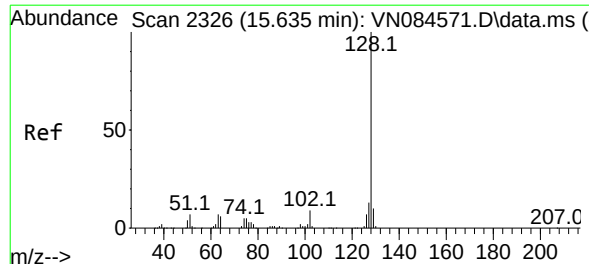
Delta R.T. -0.006 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Tgt Ion:	225	Resp:	10263
Ion Ratio	Lower	Upper	
225	100		
223	63.8	32.4	97.2
227	68.2	32.4	97.0





#95

Naphthalene

Concen: 9.363 ug/l

RT: 15.641 min Scan# 2326

Delta R.T. 0.006 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Instrument :

MSVOA_N

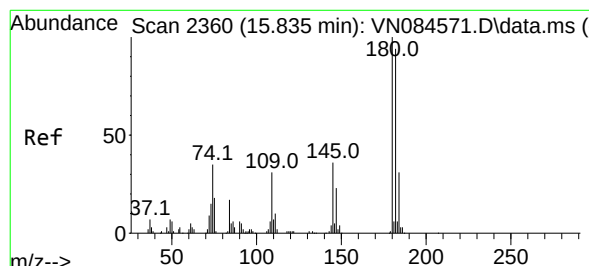
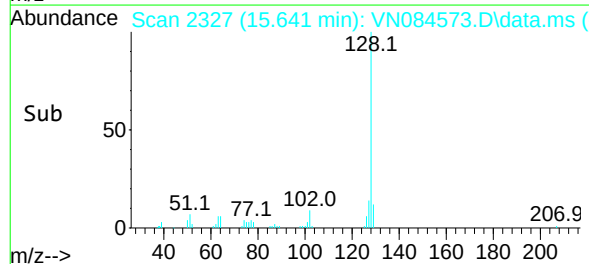
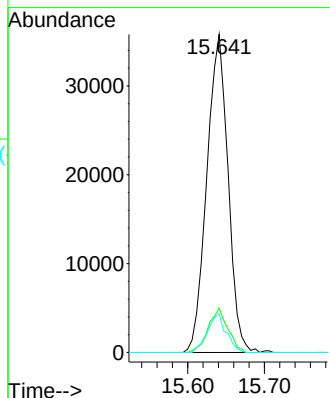
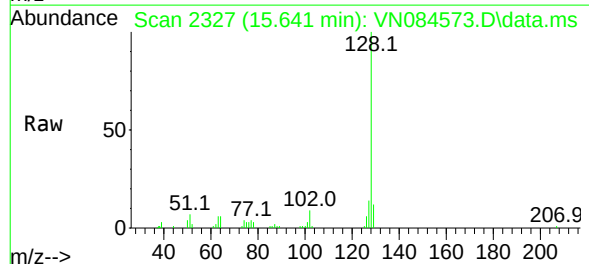
ClientSampleId :

VSTDIC010

Tgt Ion:	128	Resp:	68919
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	10.7	8.7	13.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#96

1,2,3-Trichlorobenzene

Concen: 9.342 ug/l

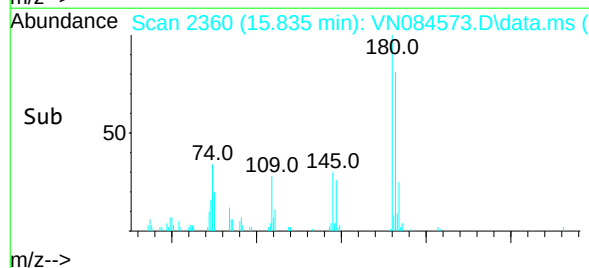
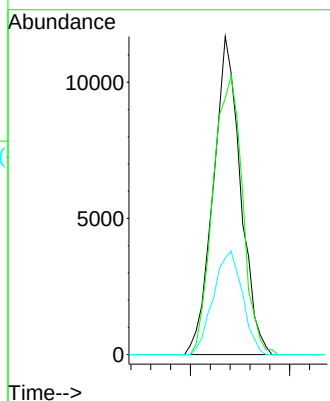
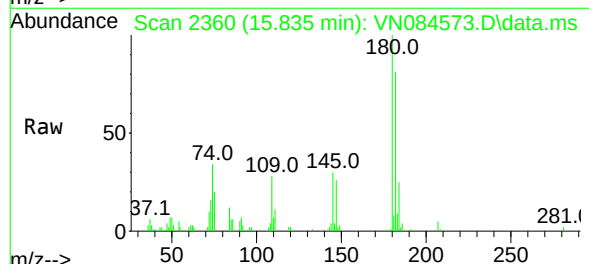
RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN084573.D

Acq: 30 Oct 2024 12:57

Tgt Ion:	180	Resp:	22303
Ion	Ratio	Lower	Upper
180	100		
182	94.6	48.2	144.6
145	34.7	17.3	51.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084574.D
 Acq On : 30 Oct 2024 13:21
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time : Oct 31 18:19:43 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:18:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	171598	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	297777	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	254342	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	118229	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	13227	5.337	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	10.680%#
35) Dibromofluoromethane	8.165	113	10512	5.215	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	10.440%#
50) Toluene-d8	10.565	98	36225	4.879	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	9.760%#
62) 4-Bromofluorobenzene	12.847	95	13506	4.867	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	9.740%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	10192	5.167	ug/l	93
3) Chloromethane	2.360	50	17076	5.115	ug/l	97
4) Vinyl Chloride	2.513	62	11174	5.267	ug/l	96
5) Bromomethane	2.901	94	6944	6.177	ug/l	98
6) Chloroethane	3.060	64	8146	4.946	ug/l	98
7) Trichlorofluoromethane	3.460	101	18362	5.254	ug/l	98
8) Diethyl Ether	3.954	74	6372	5.168	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.348	101	10090	5.109	ug/l	99
10) Methyl Iodide	4.571	142	14021	5.312	ug/l #	96
11) Tert butyl alcohol	5.536	59	10153	31.035	ug/l #	87
12) 1,1-Dichloroethene	4.324	96	9474	4.848	ug/l	91
13) Acrolein	4.183	56	8890	27.251	ug/l	97
14) Allyl chloride	5.012	41	16771	5.292	ug/l	94
15) Acrylonitrile	5.724	53	25212	26.621	ug/l	99
16) Acetone	4.430	43	20706	26.370	ug/l	91
17) Carbon Disulfide	4.689	76	30614	5.087	ug/l #	86
18) Methyl Acetate	5.030	43	21727	4.691	ug/l	99
19) Methyl tert-butyl Ether	5.795	73	30655	5.118	ug/l #	89
20) Methylene Chloride	5.265	84	12258	5.623	ug/l	91
21) trans-1,2-Dichloroethene	5.771	96	10024	4.996	ug/l	94
22) Diisopropyl ether	6.671	45	31631	5.023	ug/l	93
23) Vinyl Acetate	6.601	43	111267	25.622	ug/l	98
24) 1,1-Dichloroethane	6.559	63	20644	5.460	ug/l	96
25) 2-Butanone	7.489	43	31742	27.452	ug/l	97
26) 2,2-Dichloropropane	7.483	77	16462	5.003	ug/l	94
27) cis-1,2-Dichloroethene	7.483	96	12105	5.167	ug/l	98
28) Bromochloromethane	7.806	49	7002	4.649	ug/l #	91
29) Tetrahydrofuran	7.842	42	20240	26.385	ug/l	99
30) Chloroform	7.959	83	20974	5.451	ug/l	92
31) Cyclohexane	8.253	56	18750	5.480	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	17717	5.059	ug/l	97
36) 1,1-Dichloropropene	8.371	75	14193	5.077	ug/l	99
37) Ethyl Acetate	7.559	43	13884	5.474	ug/l #	94
38) Carbon Tetrachloride	8.353	117	15977	5.113	ug/l	96
39) Methylcyclohexane	9.600	83	13624	4.791	ug/l	95
40) Benzene	8.600	78	46044	5.129	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084574.D
 Acq On : 30 Oct 2024 13:21
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:43 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M

Quant Title : SW846 8260

QLast Update : Thu Oct 31 18:18:08 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	7091	5.199	ug/l	97
42) 1,2-Dichloroethane	8.665	62	14972	5.150	ug/l	98
43) Isopropyl Acetate	8.689	43	30044	5.554	ug/l #	90
44) Trichloroethene	9.347	130	10168	4.911	ug/l	89
45) 1,2-Dichloropropane	9.618	63	11095	5.269	ug/l	97
46) Dibromomethane	9.706	93	7752	5.217	ug/l	97
47) Bromodichloromethane	9.889	83	15749	5.028	ug/l #	98
48) Methyl methacrylate	9.677	41	9971	5.051	ug/l	97
49) 1,4-Dioxane	9.700	88	3729	106.609	ug/l	95
51) 4-Methyl-2-Pentanone	10.447	43	61332	25.367	ug/l	100
52) Toluene	10.630	92	26518	5.051	ug/l	99
53) t-1,3-Dichloropropene	10.836	75	16279	5.021	ug/l	93
54) cis-1,3-Dichloropropene	10.312	75	17395	5.069	ug/l	96
55) 1,1,2-Trichloroethane	11.018	97	10193	5.154	ug/l	93
56) Ethyl methacrylate	10.871	69	13362	4.671	ug/l	94
57) 1,3-Dichloropropane	11.165	76	17816	5.249	ug/l	96
58) 2-Chloroethyl Vinyl ether	10.159	63	30088	22.477	ug/l	98
59) 2-Hexanone	11.194	43	43750	24.860	ug/l	97
60) Dibromochloromethane	11.359	129	11226	4.980	ug/l	96
61) 1,2-Dibromoethane	11.471	107	10584	5.226	ug/l	97
64) Tetrachloroethene	11.100	164	8917	5.271	ug/l #	87
65) Chlorobenzene	11.888	112	29618	5.205	ug/l	94
66) 1,1,1,2-Tetrachloroethane	11.959	131	10265	5.186	ug/l	99
67) Ethyl Benzene	11.965	91	47037	4.952	ug/l	98
68) m/p-Xylenes	12.065	106	34753	9.665	ug/l	100
69) o-Xylene	12.394	106	16393	4.873	ug/l	99
70) Styrene	12.412	104	27807	4.739	ug/l	98
71) Bromoform	12.577	173	7686	5.161	ug/l #	95
73) Isopropylbenzene	12.694	105	40223	4.855	ug/l	99
74) N-amyl acetate	12.494	43	18583	5.270	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	15573	5.631	ug/l	97
76) 1,2,3-Trichloropropane	12.994	75	11982m	5.136	ug/l	
77) Bromobenzene	12.983	156	11012	4.944	ug/l	98
78) n-propylbenzene	13.035	91	47776	4.921	ug/l	99
79) 2-Chlorotoluene	13.124	91	32460	5.117	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	32685	4.760	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.730	75	5096	5.116	ug/l	93
82) 4-Chlorotoluene	13.218	91	33672	5.044	ug/l	98
83) tert-Butylbenzene	13.435	119	26850	4.724	ug/l	95
84) 1,2,4-Trimethylbenzene	13.483	105	32703	4.614	ug/l	100
85) sec-Butylbenzene	13.612	105	37187	4.632	ug/l	97
86) p-Isopropyltoluene	13.730	119	29767	4.521	ug/l	97
87) 1,3-Dichlorobenzene	13.730	146	22272	5.124	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	22213	4.741	ug/l	91
89) n-Butylbenzene	14.053	91	29010	4.710	ug/l	99
90) Hexachloroethane	14.335	117	7404	5.043	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	22221	5.320	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.718	75	3239	5.781	ug/l	93
93) 1,2,4-Trichlorobenzene	15.394	180	11298	4.942	ug/l	99
94) Hexachlorobutadiene	15.500	225	5184	5.163	ug/l	96
95) Naphthalene	15.641	128	32966	4.817	ug/l	98
96) 1,2,3-Trichlorobenzene	15.835	180	11106	5.004	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084574.D
Acq On : 30 Oct 2024 13:21
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

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

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

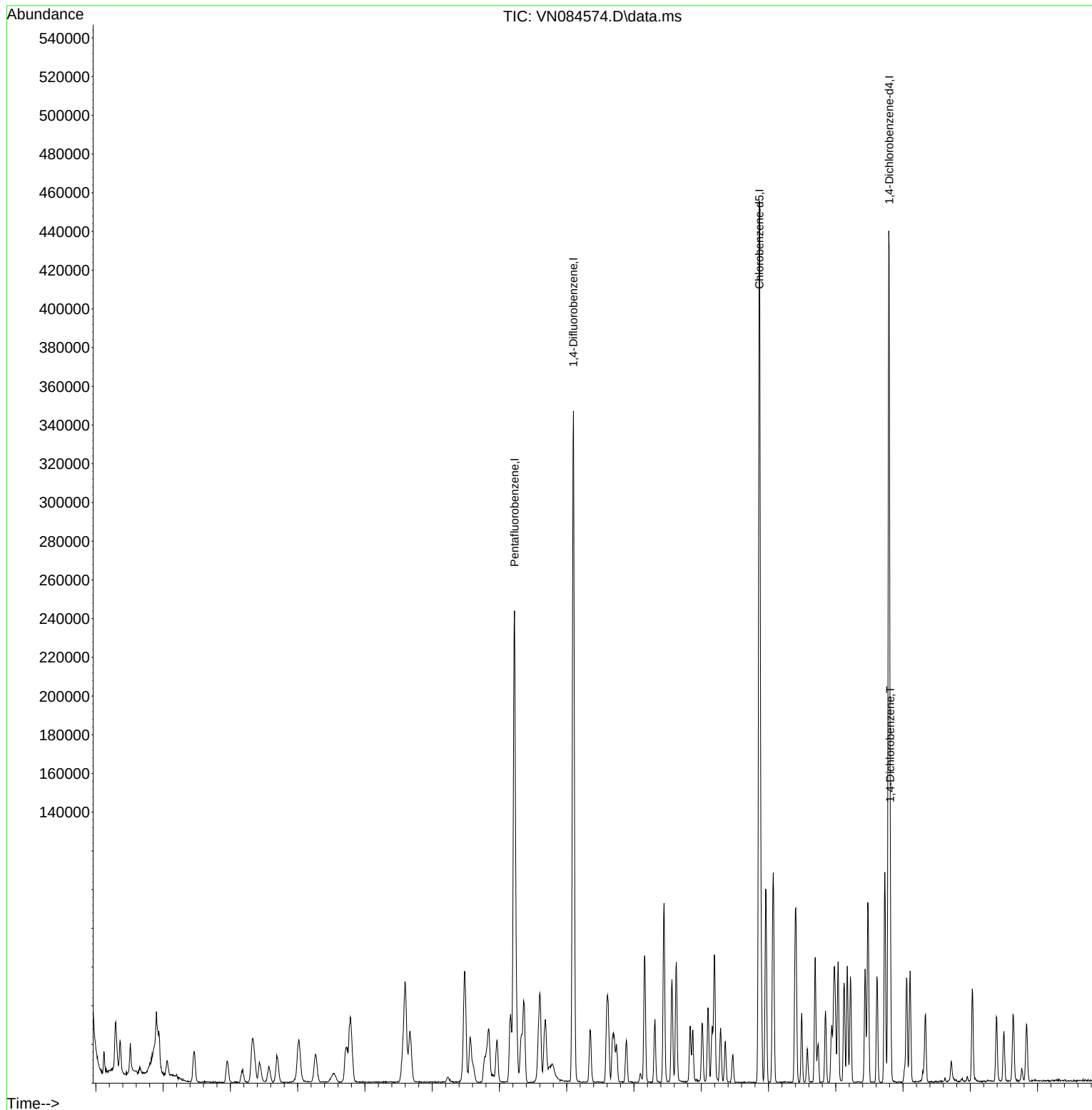
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Data File : VN084574.D
Acq On : 30 Oct 2024 13:21
Operator : JC\MD
Sample : VSTDIC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

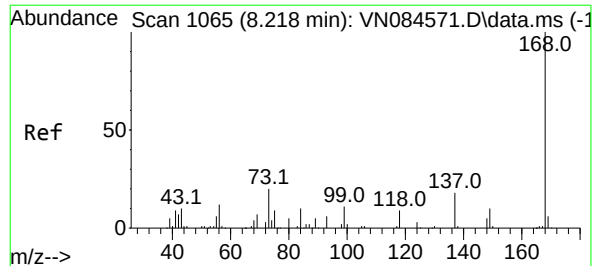
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
Supervised By : Mahesh Dadoda 11/04/2024

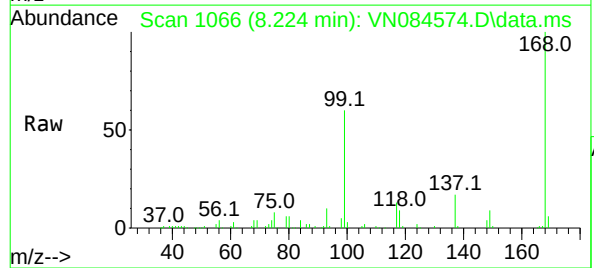
Quant Time: Oct 31 18:19:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VN084574.D
Acq: 30 Oct 2024 13:21

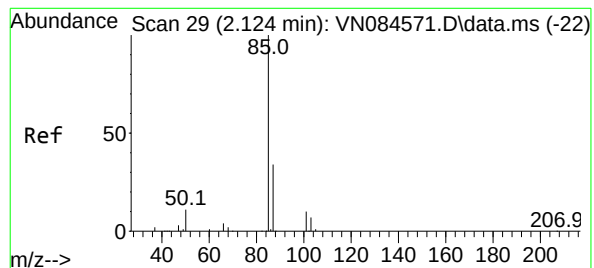
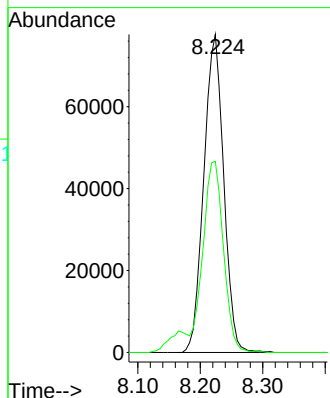
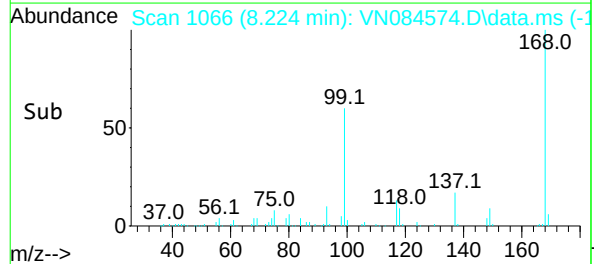
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 168 Resp: 171598
Ion Ratio Lower Upper
168 100
99 60.1 54.2 81.2

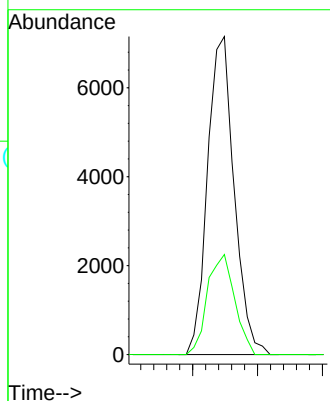
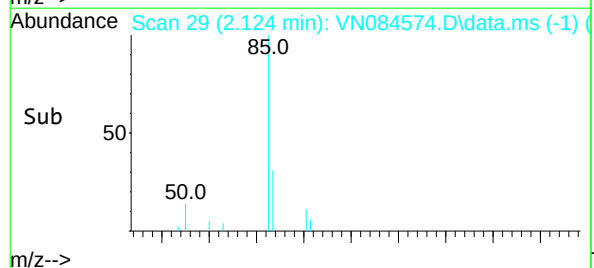
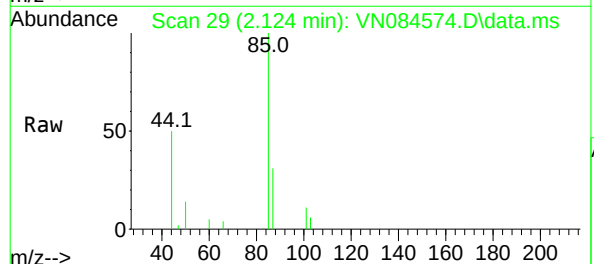
Manual Integrations
APPROVED

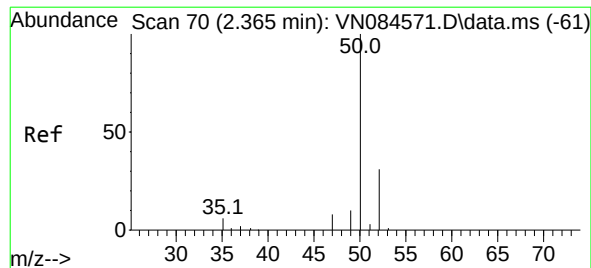
Reviewed By : Semsettin Yesilyurt 11/04/2024
Supervised By : Mahesh Dadoda 11/04/2024



#2
Dichlorodifluoromethane
Concen: 5.167 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN084574.D
Acq: 30 Oct 2024 13:21

Tgt Ion: 85 Resp: 10192
Ion Ratio Lower Upper
85 100
87 31.5 17.6 52.9





#3

Chloromethane

Concen: 5.115 ug/l

RT: 2.360 min Scan# 69

Delta R.T. 0.001 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 50 Resp: 17076

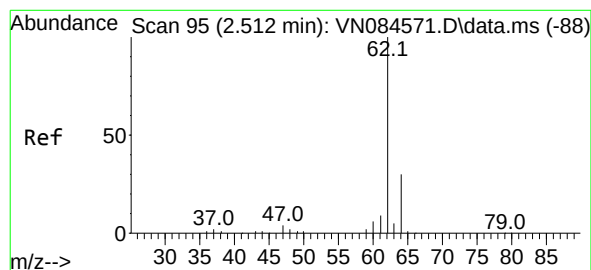
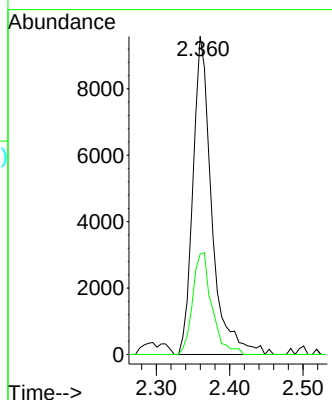
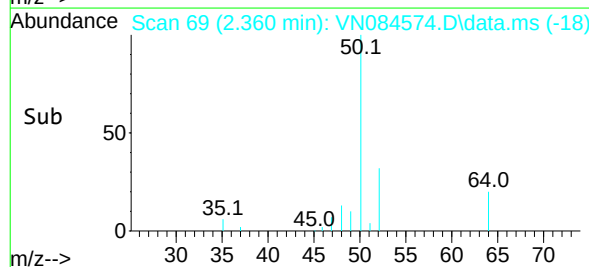
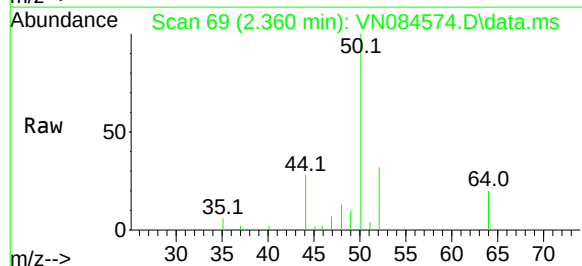
Ion Ratio Lower Upper

50 100

52 31.6 26.8 40.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#4

Vinyl Chloride

Concen: 5.267 ug/l

RT: 2.513 min Scan# 95

Delta R.T. -0.005 min

Lab File: VN084574.D

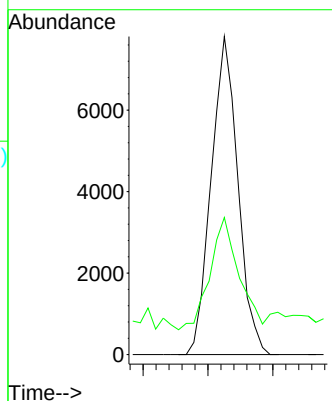
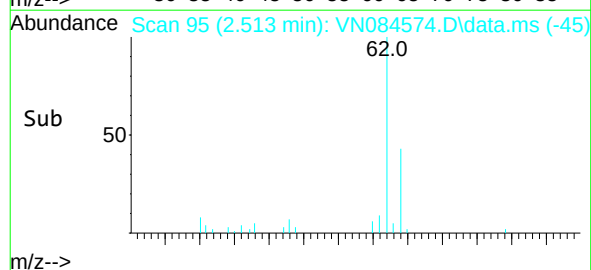
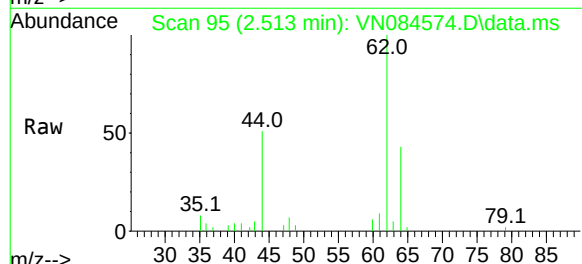
Acq: 30 Oct 2024 13:21

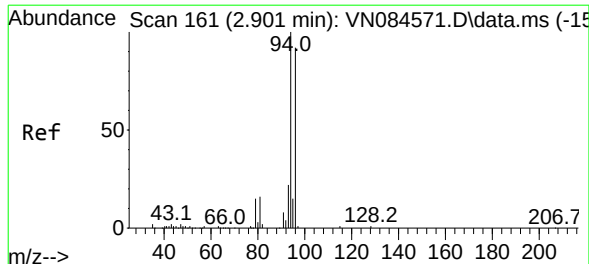
Tgt Ion: 62 Resp: 11174

Ion Ratio Lower Upper

62 100

64 35.3 26.2 39.4





#5

Bromomethane

Concen: 6.177 ug/l

RT: 2.901 min Scan# 161

Delta R.T. -0.052 min

Lab File: VN084574.D

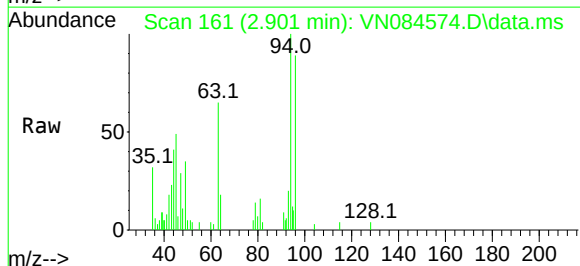
Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005



Tgt Ion: 94 Resp: 6944

Ion Ratio Lower Upper

94 100

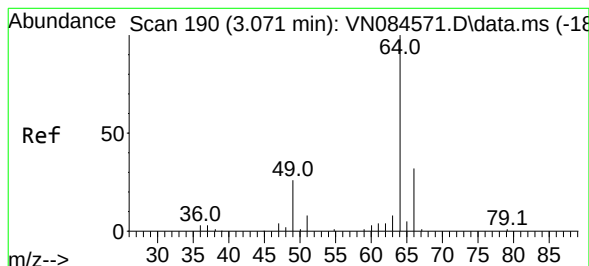
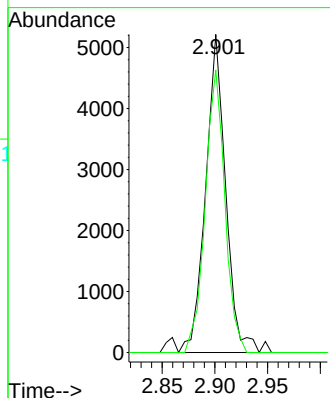
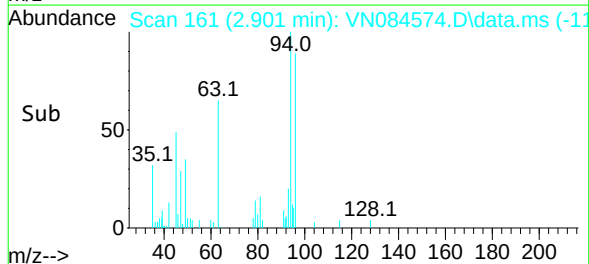
96 88.8 72.9 109.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#6

Chloroethane

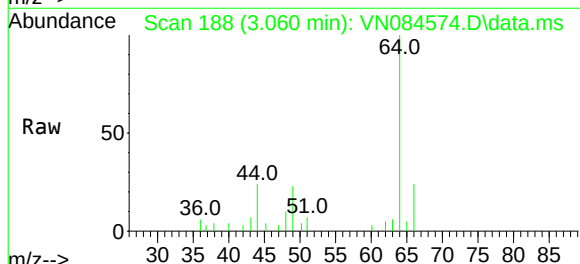
Concen: 4.946 ug/l

RT: 3.060 min Scan# 188

Delta R.T. -0.058 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

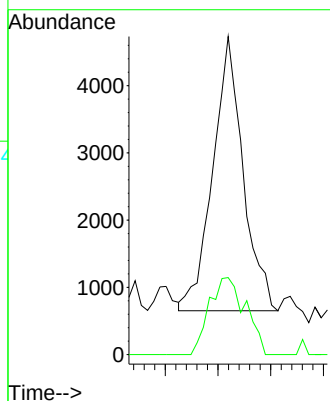
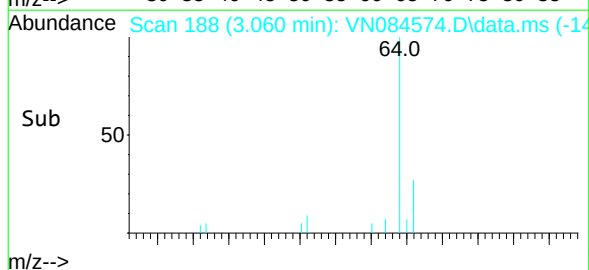


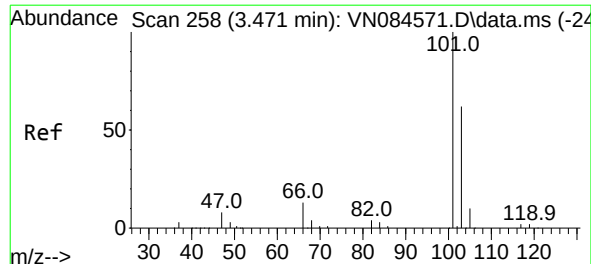
Tgt Ion: 64 Resp: 8146

Ion Ratio Lower Upper

64 100

66 28.1 23.5 35.3





#7

Trichlorofluoromethane

Concen: 5.254 ug/l

RT: 3.460 min Scan# 25

Delta R.T. -0.035 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:101 Resp: 18362

Ion Ratio Lower Upper

101 100

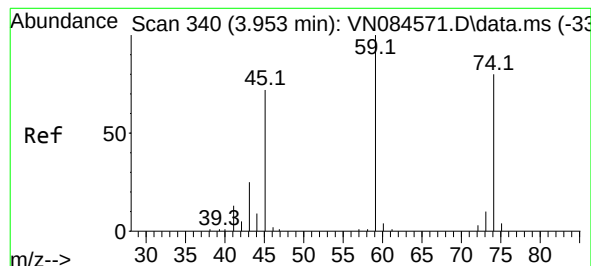
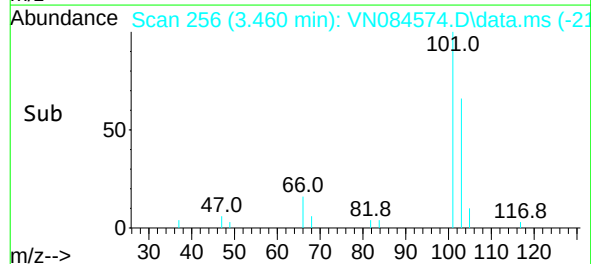
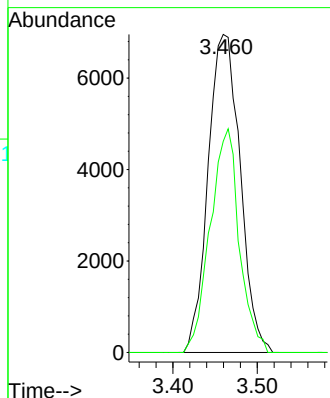
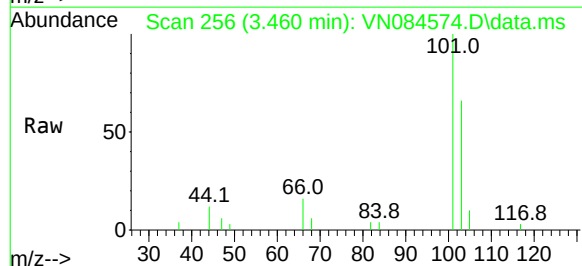
103 66.4 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#8

Diethyl Ether

Concen: 5.168 ug/l

RT: 3.954 min Scan# 340

Delta R.T. -0.005 min

Lab File: VN084574.D

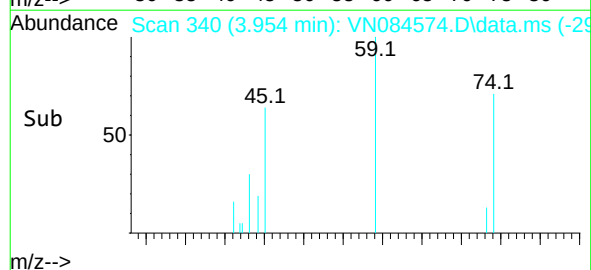
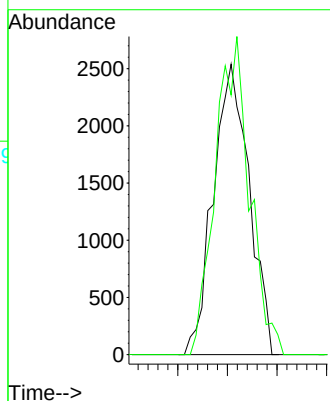
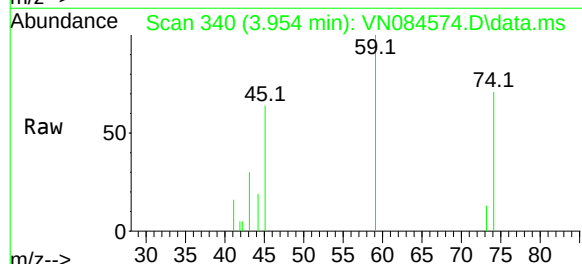
Acq: 30 Oct 2024 13:21

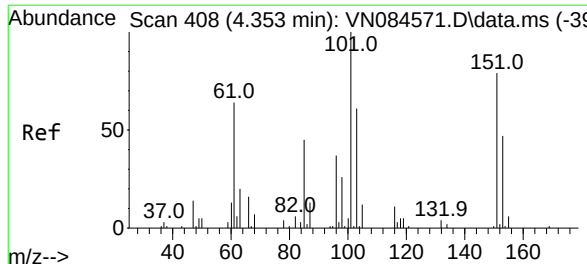
Tgt Ion: 74 Resp: 6372

Ion Ratio Lower Upper

74 100

45 104.5 47.7 143.1





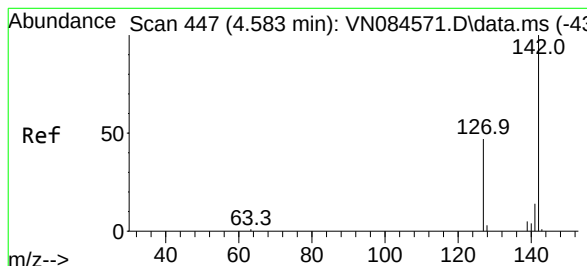
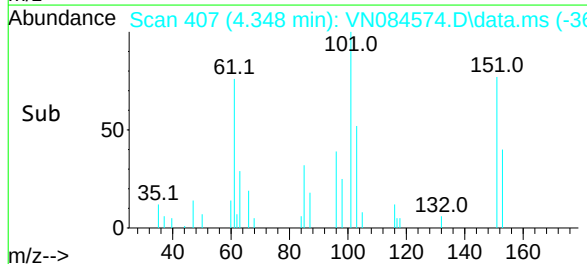
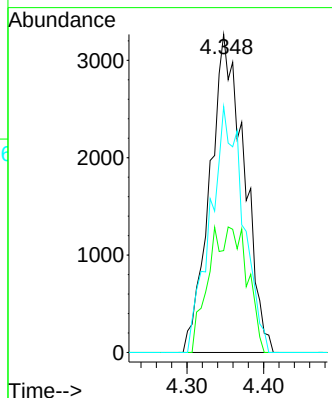
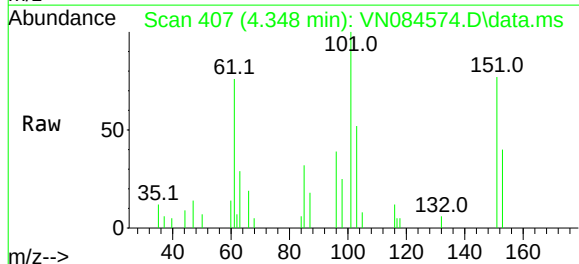
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.109 ug/l
RT: 4.348 min Scan# 408
Delta R.T. -0.023 min
Lab File: VN084574.D
Acq: 30 Oct 2024 13:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:	101	Resp:	10090
Ion	Ratio	Lower	Upper
101	100		
85	44.4	36.2	54.4
151	74.7	59.3	88.9

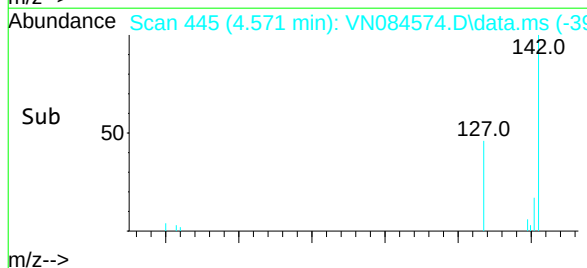
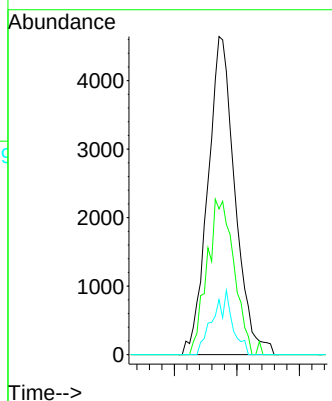
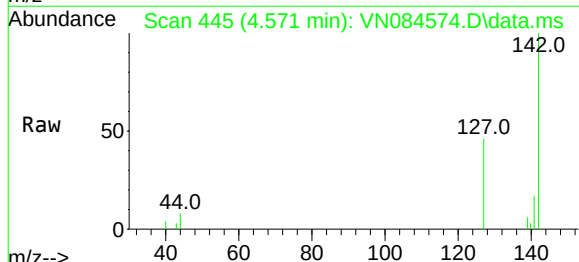
Manual Integrations
APPROVED

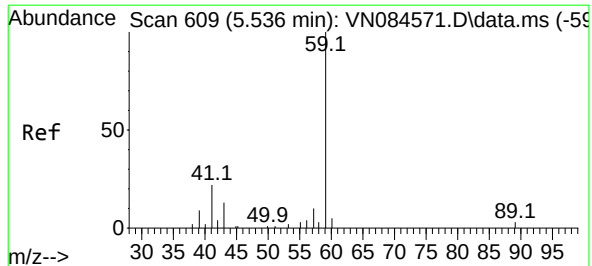
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#10
Methyl Iodide
Concen: 5.312 ug/l
RT: 4.571 min Scan# 445
Delta R.T. -0.023 min
Lab File: VN084574.D
Acq: 30 Oct 2024 13:21

Tgt Ion:	142	Resp:	14021
Ion	Ratio	Lower	Upper
142	100		
127	45.8	35.3	52.9
141	17.3	11.0	16.6





#11

Tert butyl alcohol

Concen: 31.035 ug/l

RT: 5.536 min Scan# 609

Delta R.T. 0.012 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Tgt Ion: 59 Resp: 10153

Ion Ratio Lower Upper

59 100

57 5.4 8.2 12.2#

Instrument :

MSVOA_N

ClientSampleId :

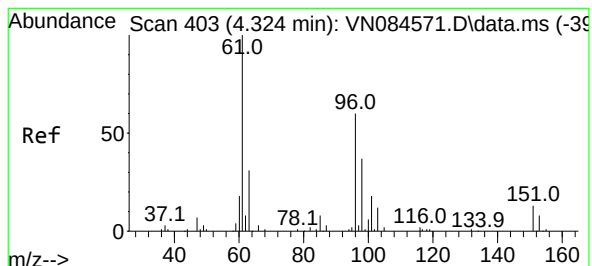
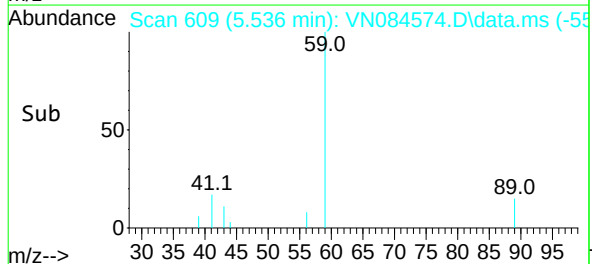
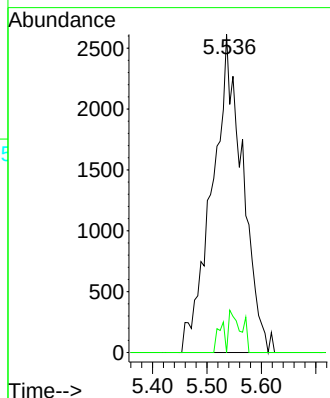
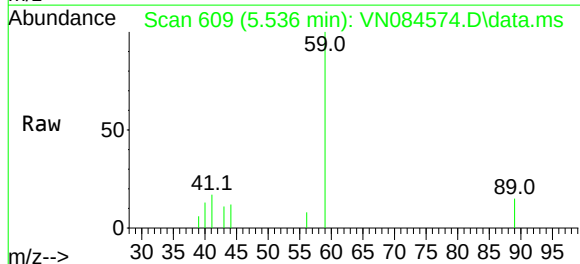
VSTDICC005

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#12

1,1-Dichloroethene

Concen: 4.848 ug/l

RT: 4.324 min Scan# 403

Delta R.T. -0.017 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

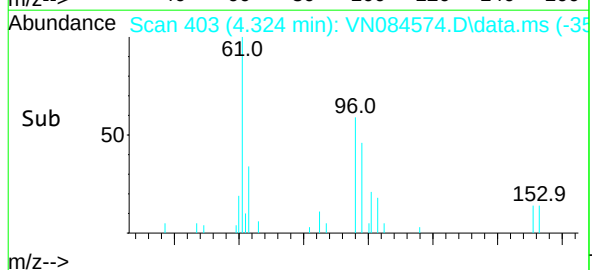
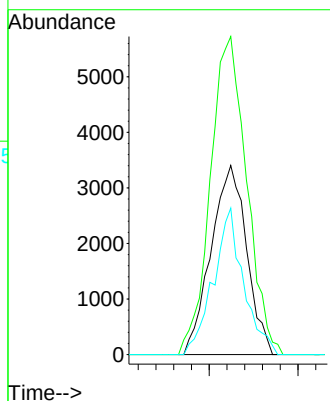
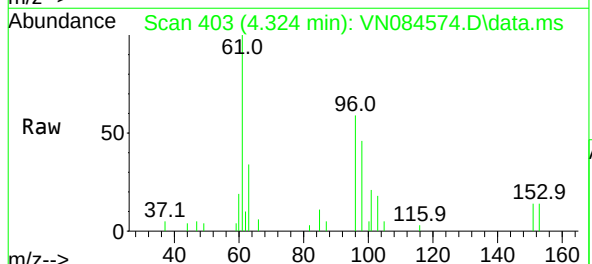
Tgt Ion: 96 Resp: 9474

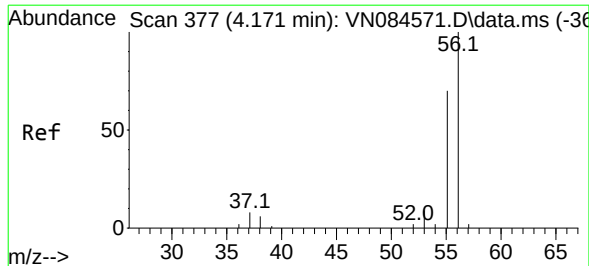
Ion Ratio Lower Upper

96 100

61 168.2 128.6 192.8

98 77.5 51.7 77.5





#13

Acrolein

Concen: 27.251 ug/l

RT: 4.183 min Scan# 37

Delta R.T. 0.006 min

Lab File: VN084574.D

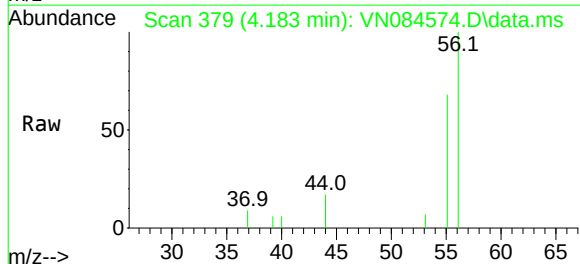
Acq: 30 Oct 2024 13:21

Instrument :

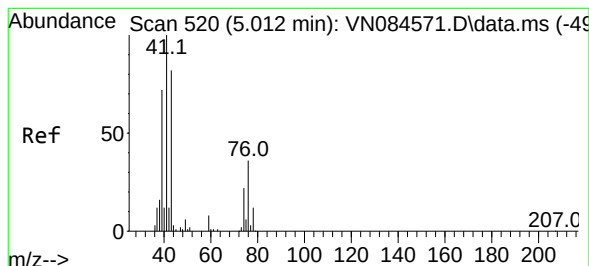
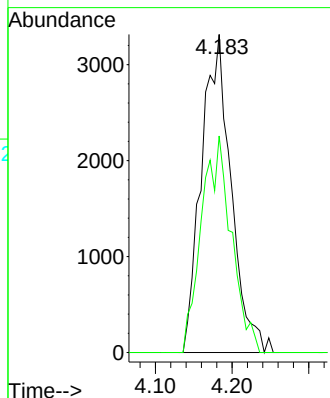
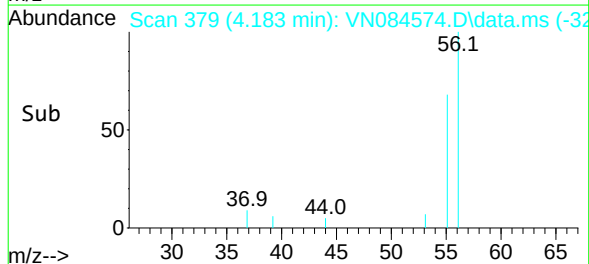
MSVOA_N

ClientSampleId :

VSTDICC005



Tgt Ion:	56	Resp:	8890
Ion Ratio	Lower	Upper	
56	100		
55	68.6	57.2	85.8

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#14

Allyl chloride

Concen: 5.292 ug/l

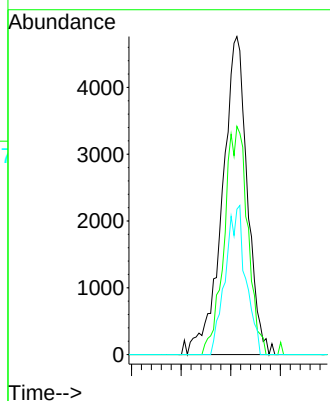
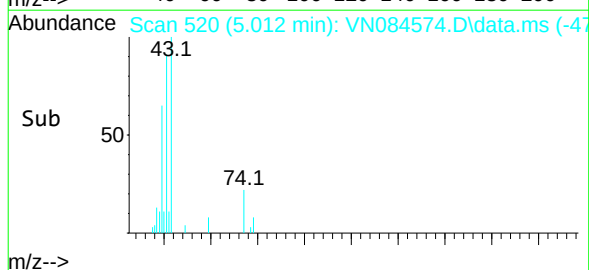
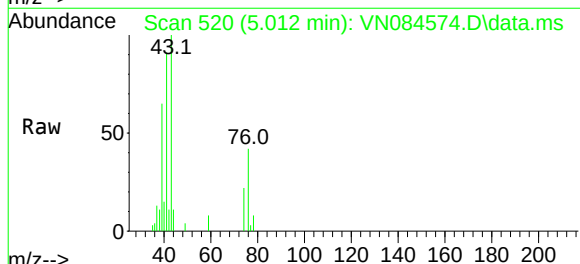
RT: 5.012 min Scan# 520

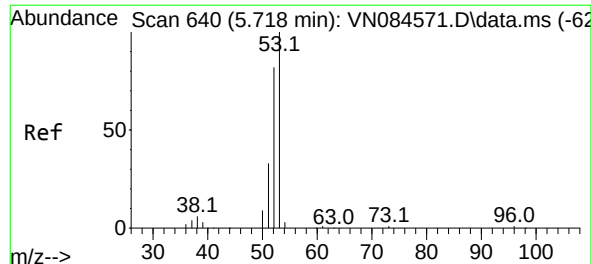
Delta R.T. -0.012 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Tgt Ion:	41	Resp:	16771
Ion Ratio	Lower	Upper	
41	100		
39	67.1	59.0	88.6
76	38.0	29.8	44.6





#15

Acrylonitrile

Concen: 26.621 ug/l

RT: 5.724 min Scan# 641

Delta R.T. 0.006 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

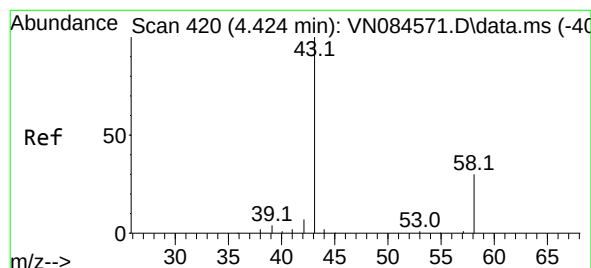
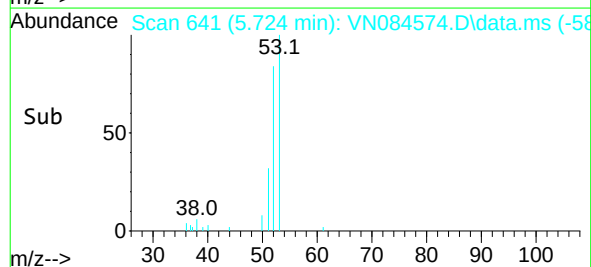
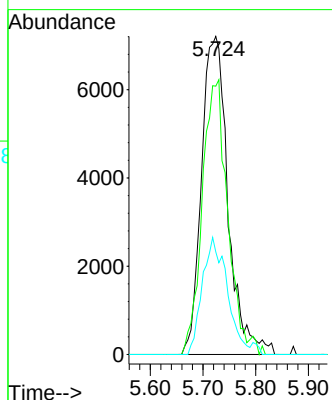
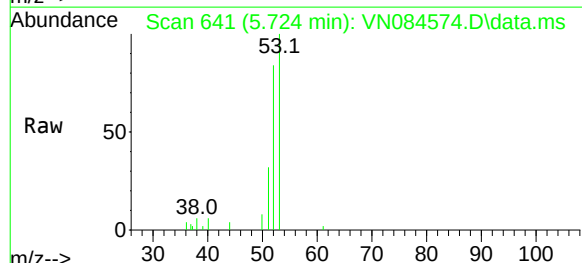
ClientSampleId :

VSTDICC005

Tgt Ion:	53	Resp:	25212
Ion	Ratio	Lower	Upper
53	100		
52	83.1	66.2	99.4
51	34.6	28.8	43.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#16

Acetone

Concen: 26.370 ug/l

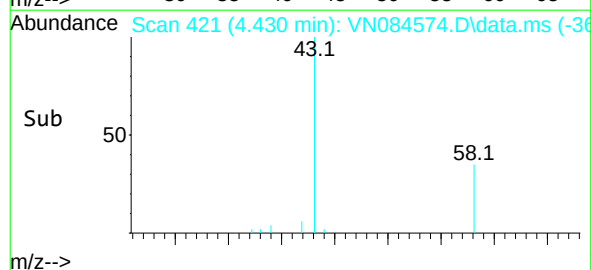
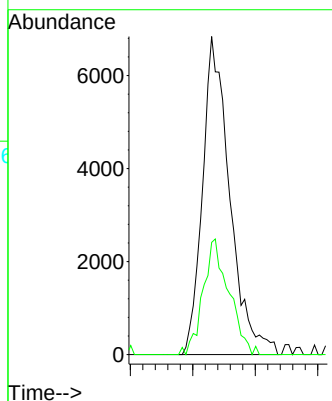
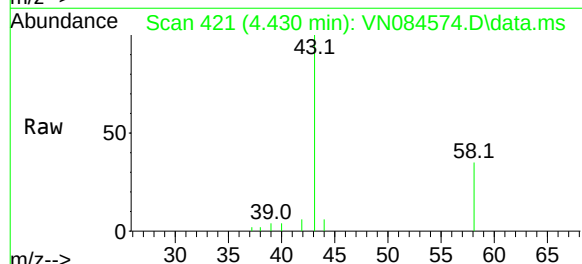
RT: 4.430 min Scan# 421

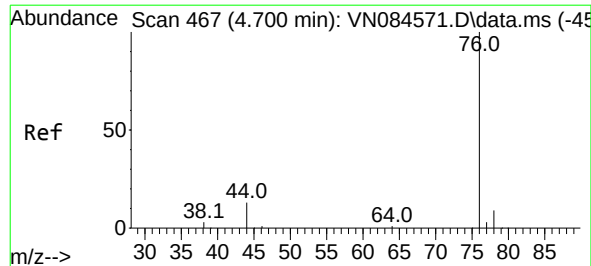
Delta R.T. 0.006 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Tgt Ion:	43	Resp:	20706
Ion	Ratio	Lower	Upper
43	100		
58	35.3	24.4	36.6





#17

Carbon Disulfide

Concen: 5.087 ug/l

RT: 4.689 min Scan# 46

Delta R.T. -0.023 min

Lab File: VN084574.D

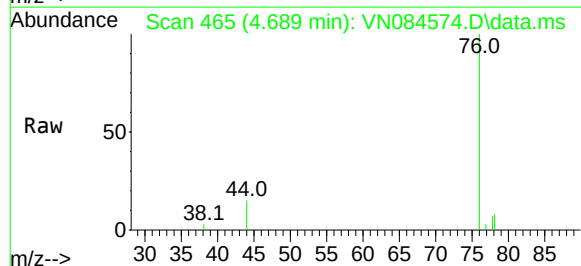
Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005



Tgt Ion: 76 Resp: 30614

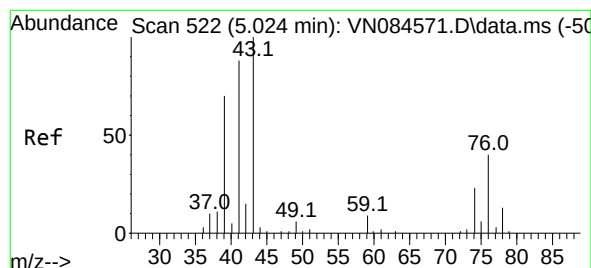
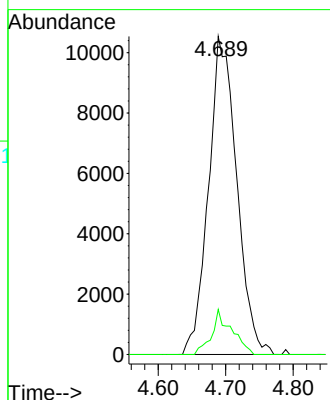
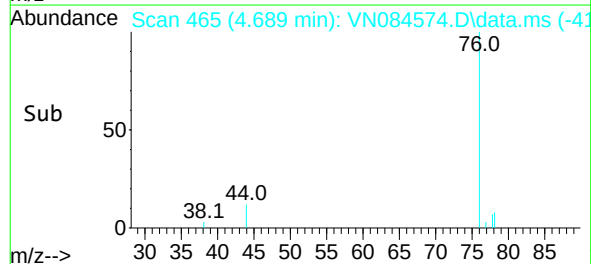
Ion Ratio Lower Upper

76 100

78 14.2 7.3 10.9#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#18

Methyl Acetate

Concen: 4.691 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN084574.D

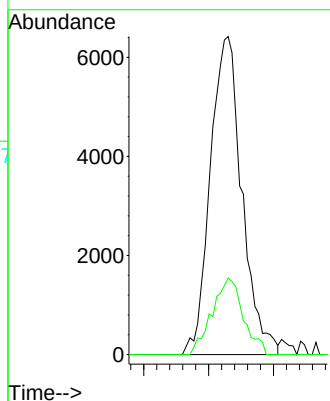
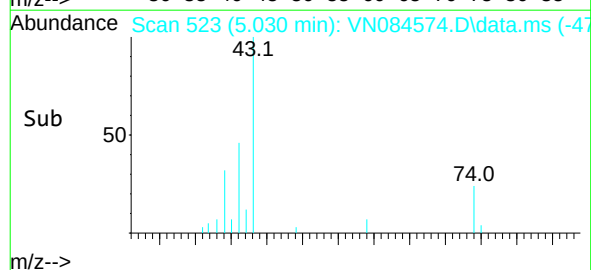
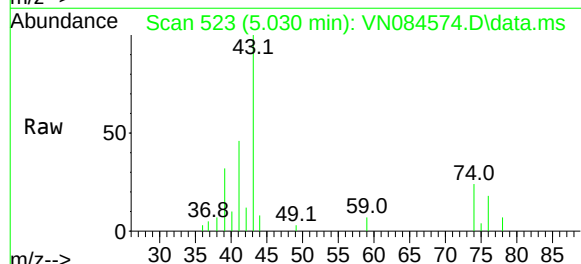
Acq: 30 Oct 2024 13:21

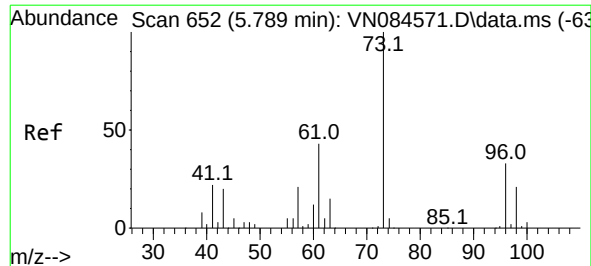
Tgt Ion: 43 Resp: 21727

Ion Ratio Lower Upper

43 100

74 23.7 19.2 28.8





#19

Methyl tert-butyl Ether

Concen: 5.118 ug/l

RT: 5.795 min Scan# 65

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 73 Resp: 30655

Ion Ratio Lower Upper

73 100

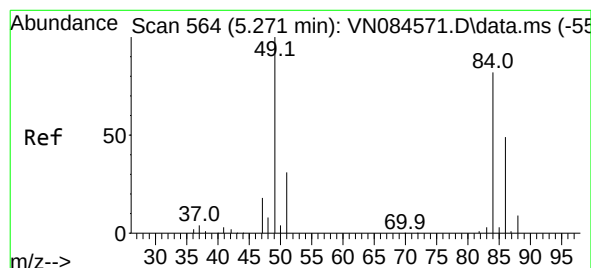
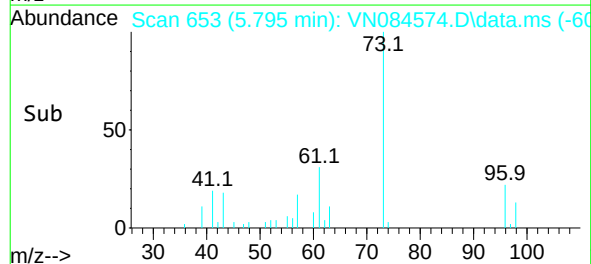
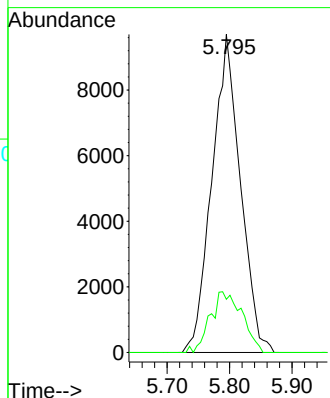
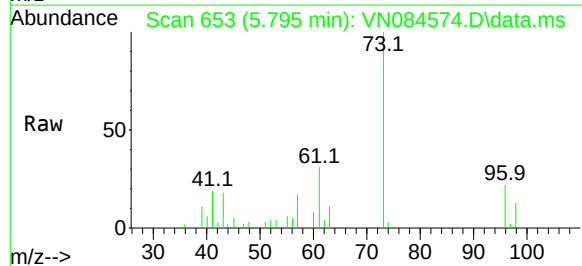
57 16.7 17.7 26.5#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#20

Methylene Chloride

Concen: 5.623 ug/l

RT: 5.265 min Scan# 563

Delta R.T. -0.012 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Tgt Ion: 84 Resp: 12258

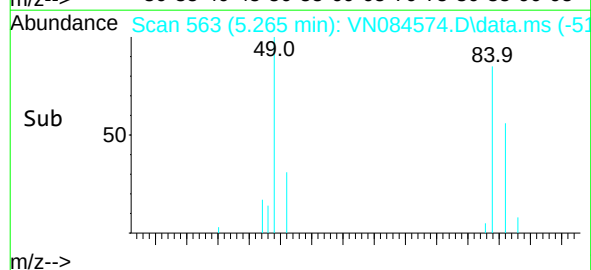
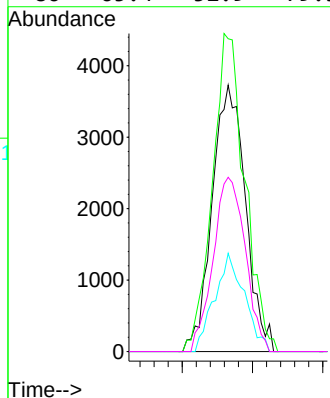
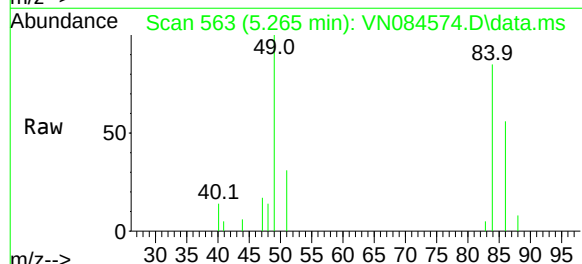
Ion Ratio Lower Upper

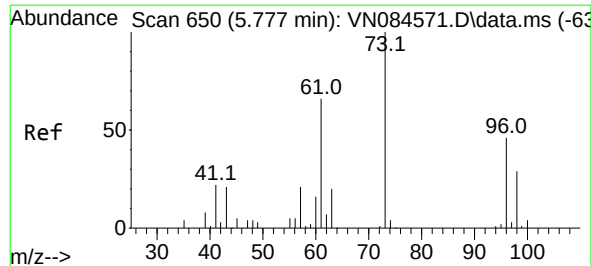
84 100

49 117.4 107.2 160.8

51 36.9 31.8 47.8

86 65.4 52.9 79.3





#21

trans-1,2-Dichloroethene

Concen: 4.996 ug/l

RT: 5.771 min Scan# 649

Delta R.T. -0.017 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 96 Resp: 10024

Ion Ratio Lower Upper

96 100

61 128.0 108.4 162.6

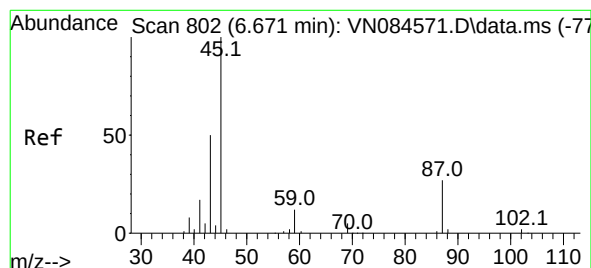
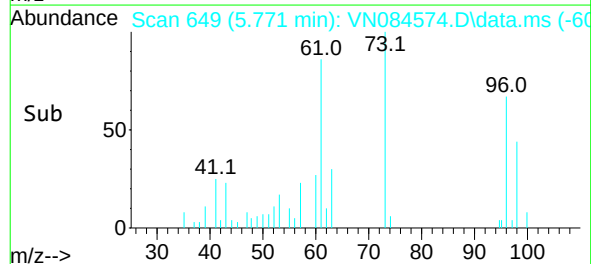
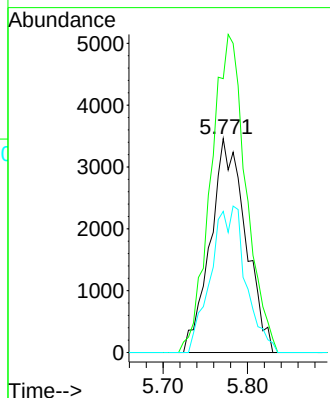
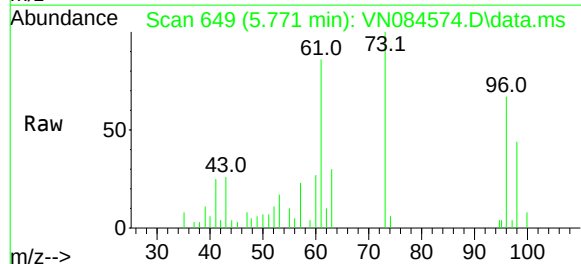
98 66.0 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#22

Diisopropyl ether

Concen: 5.023 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Tgt Ion: 45 Resp: 31631

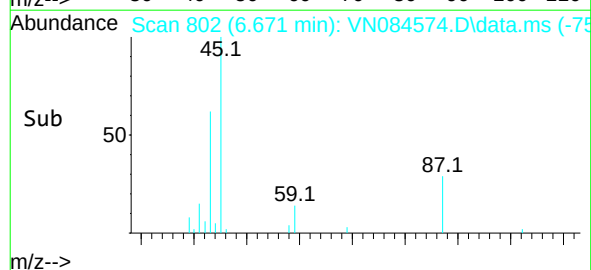
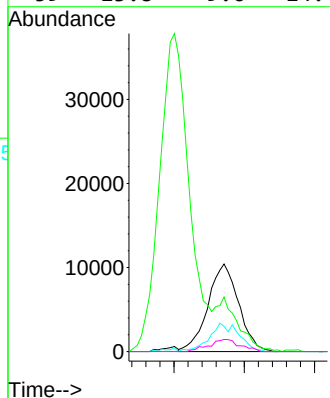
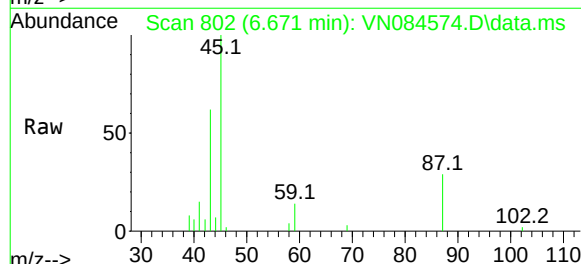
Ion Ratio Lower Upper

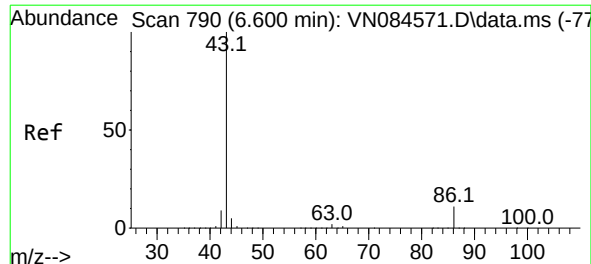
45 100

43 60.3 42.3 63.5

87 28.8 21.8 32.6

59 13.8 9.6 14.4





#23

Vinyl Acetate

Concen: 25.622 ug/l

RT: 6.601 min Scan# 790

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 111267

Ion Ratio Lower Upper

43 100

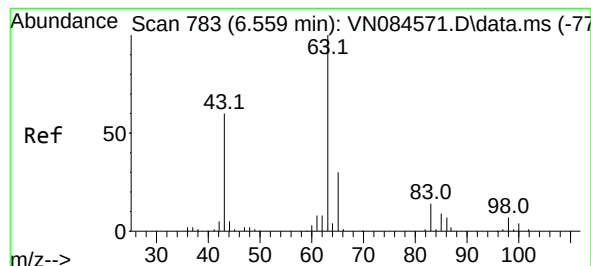
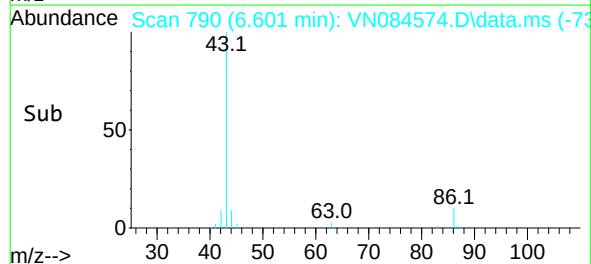
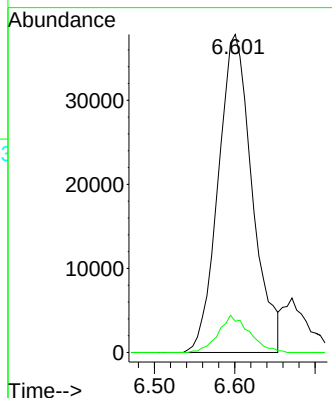
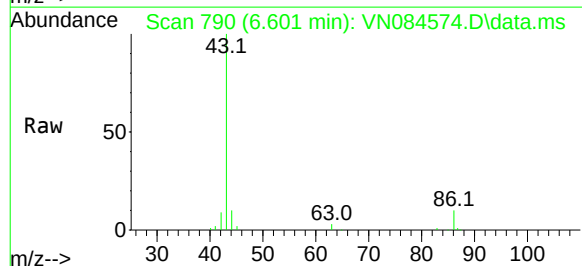
86 9.8 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#24

1,1-Dichloroethane

Concen: 5.460 ug/l

RT: 6.559 min Scan# 783

Delta R.T. -0.011 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

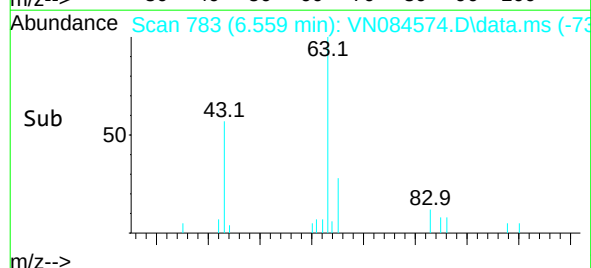
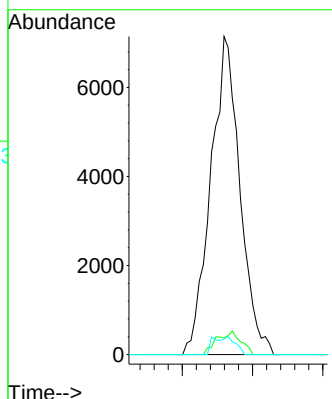
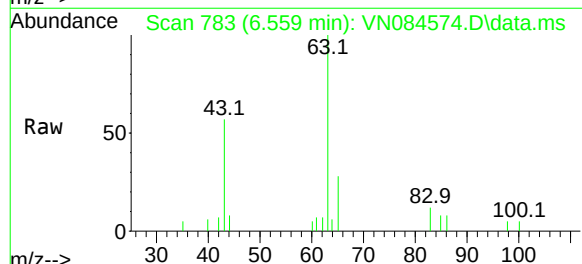
Tgt Ion: 63 Resp: 20644

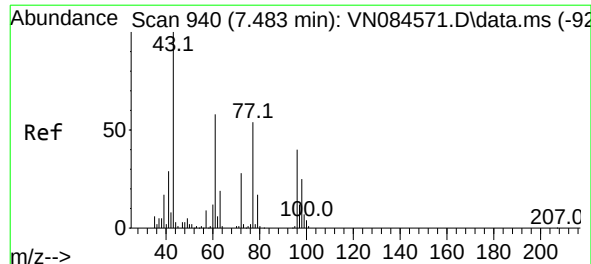
Ion Ratio Lower Upper

63 100

98 5.3 3.4 10.2

100 4.9 2.0 5.8





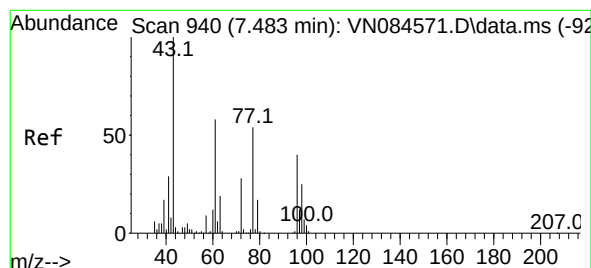
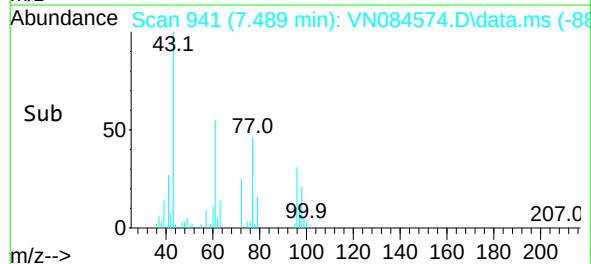
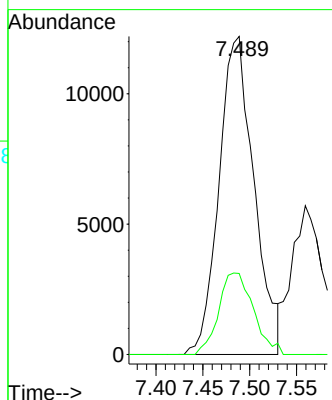
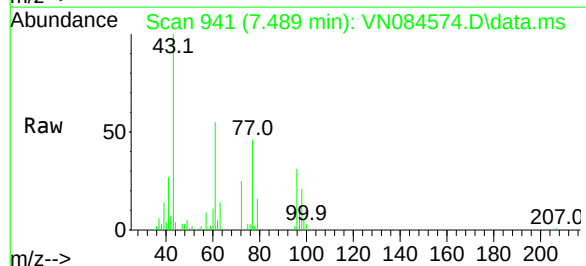
#25
2-Butanone
Concen: 27.452 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN084574.D
Acq: 30 Oct 2024 13:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 31742
Ion Ratio Lower Upper
43 100
72 25.5 21.4 32.2

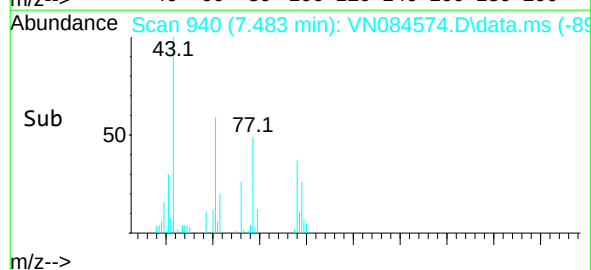
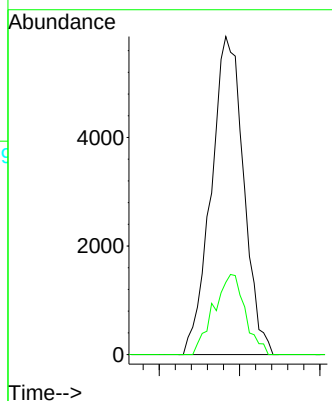
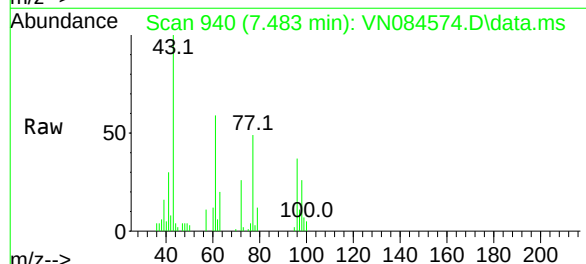
Manual Integrations
APPROVED

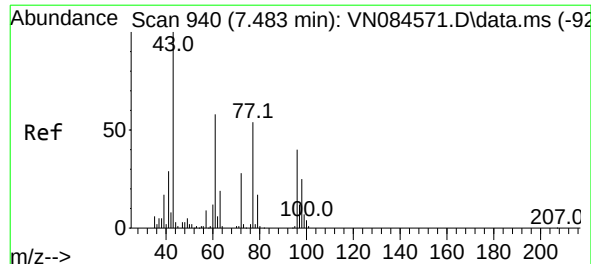
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#26
2,2-Dichloropropane
Concen: 5.003 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN084574.D
Acq: 30 Oct 2024 13:21

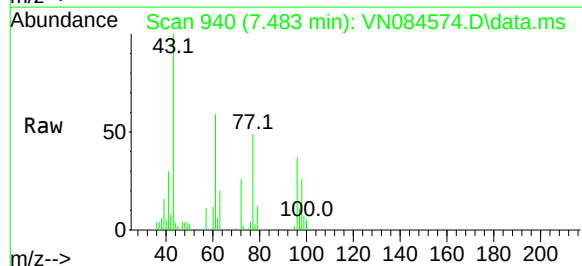
Tgt Ion: 77 Resp: 16462
Ion Ratio Lower Upper
77 100
97 24.2 10.8 32.3





#27
cis-1,2-Dichloroethene
Concen: 5.167 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN084574.D
Acq: 30 Oct 2024 13:21

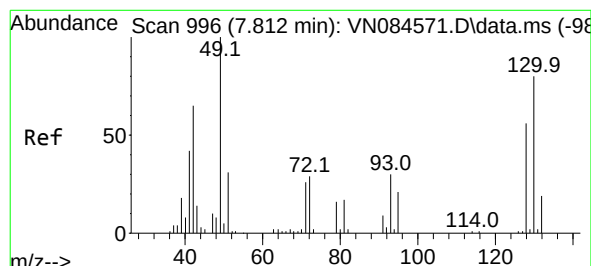
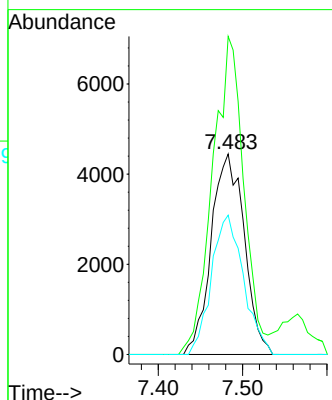
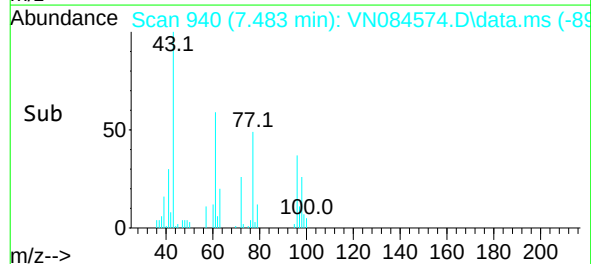
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 96 Resp: 12105
Ion Ratio Lower Upper
96 100
61 150.0 0.0 301.8
98 67.6 0.0 128.2

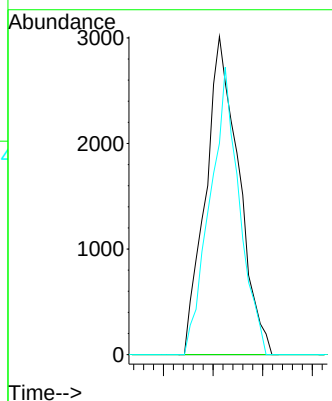
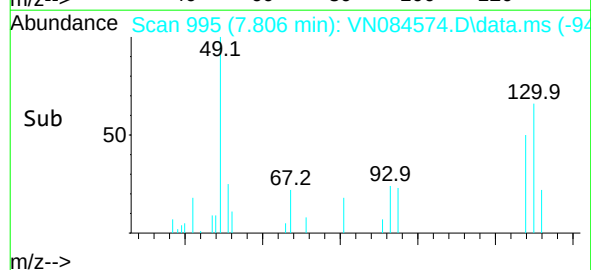
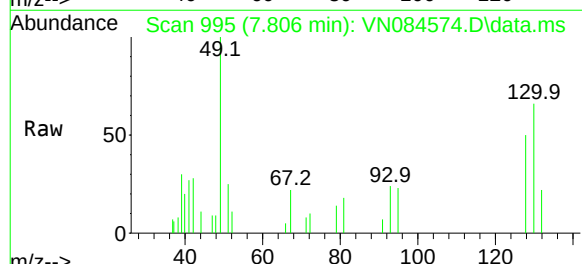
Manual Integrations
APPROVED

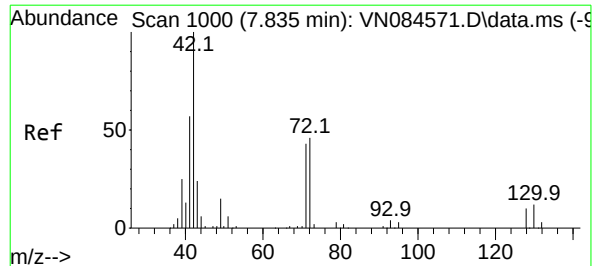
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#28
Bromochloromethane
Concen: 4.649 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.006 min
Lab File: VN084574.D
Acq: 30 Oct 2024 13:21

Tgt Ion: 49 Resp: 7002
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 79.7 58.0 87.0





#29

Tetrahydrofuran

Concen: 26.385 ug/l

RT: 7.842 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 42 Resp: 20240

Ion Ratio Lower Upper

42 100

72 43.6 34.6 51.8

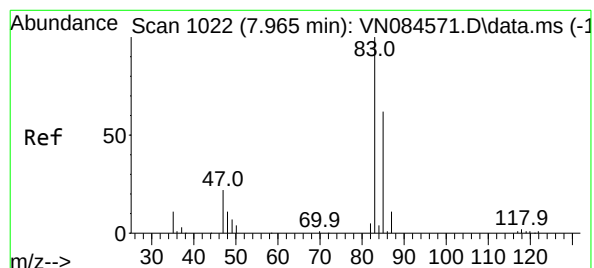
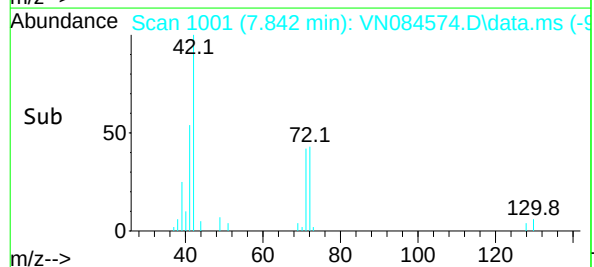
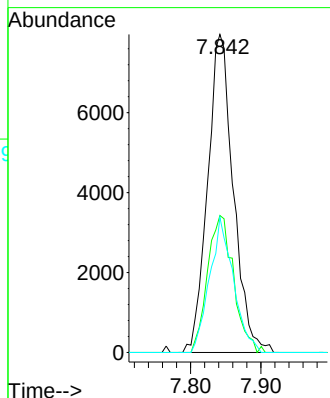
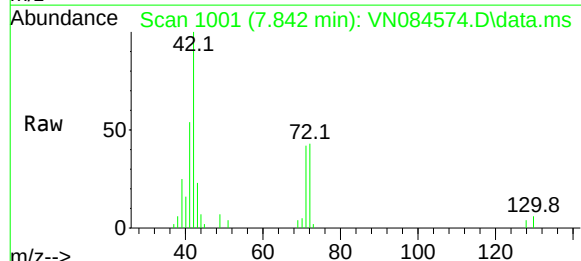
71 39.3 32.2 48.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#30

Chloroform

Concen: 5.451 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VN084574.D

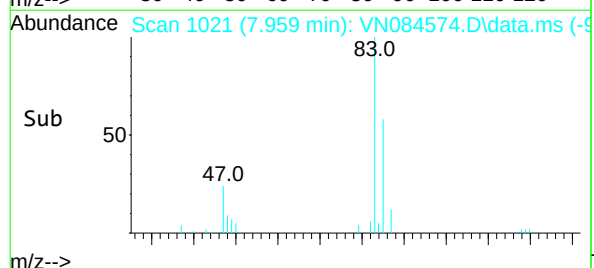
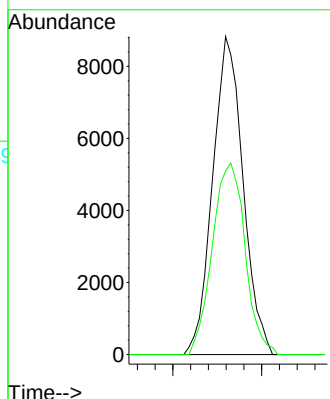
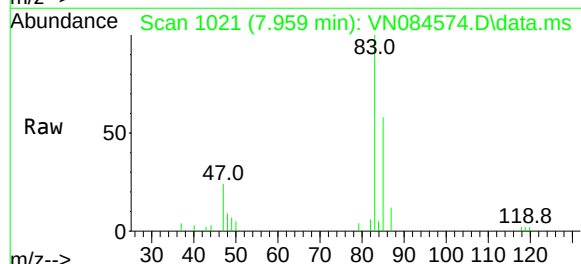
Acq: 30 Oct 2024 13:21

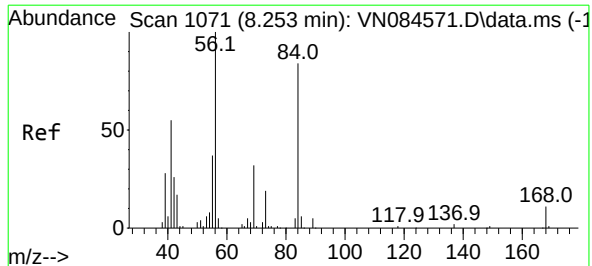
Tgt Ion: 83 Resp: 20974

Ion Ratio Lower Upper

83 100

85 57.8 51.0 76.4





#31

Cyclohexane

Concen: 5.480 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 18750

Ion Ratio Lower Upper

56 100

69 33.3 23.8 35.6

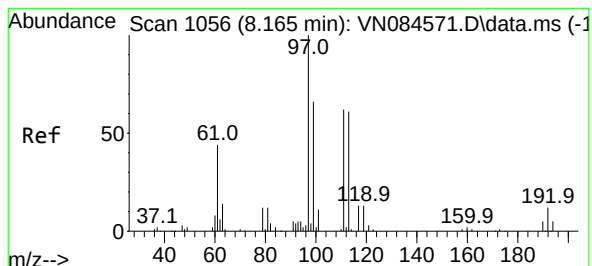
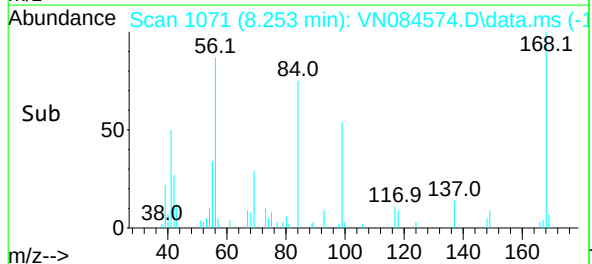
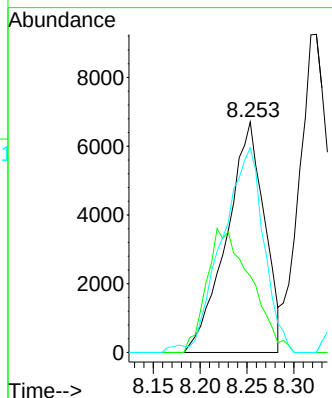
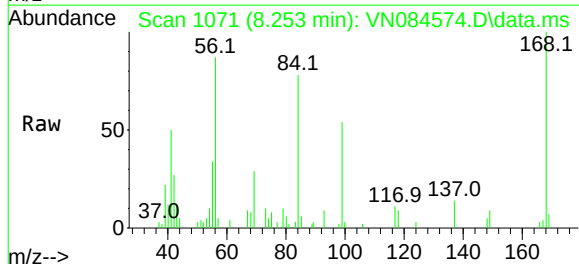
84 85.6 68.8 103.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#32

1,1,1-Trichloroethane

Concen: 5.059 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

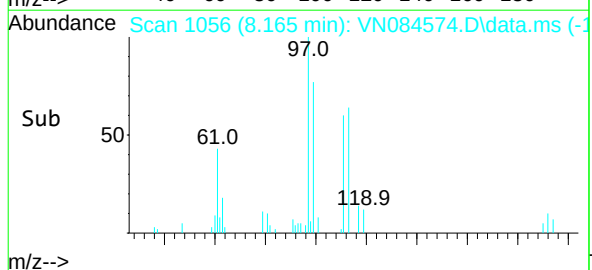
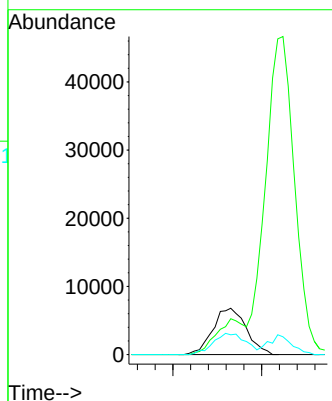
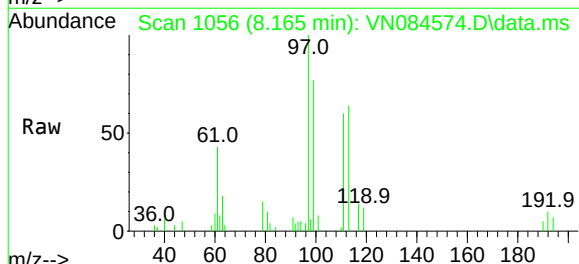
Tgt Ion: 97 Resp: 17717

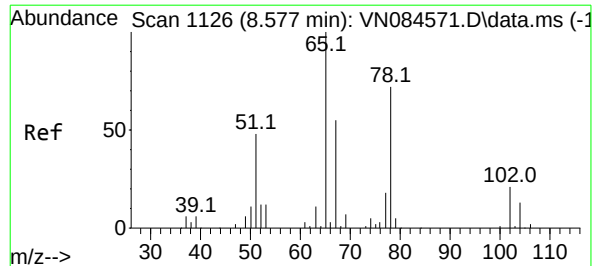
Ion Ratio Lower Upper

97 100

99 66.0 51.2 76.8

61 44.8 37.5 56.3





#33

1,2-Dichloroethane-d4

Concen: 5.337 ug/l

RT: 8.577 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 13227

Ion Ratio Lower Upper

65 100

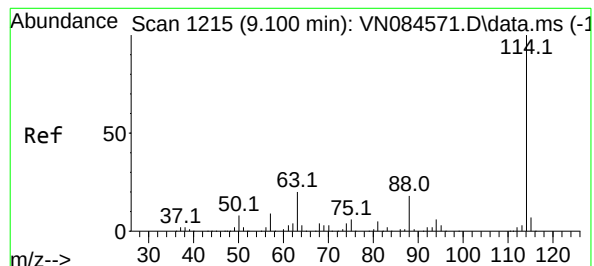
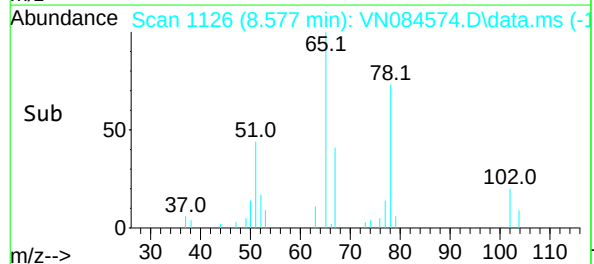
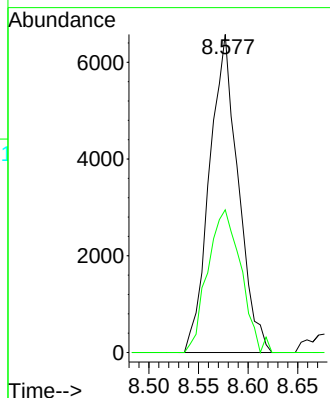
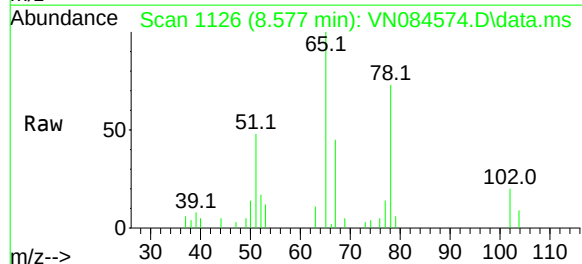
67 52.0 0.0 102.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

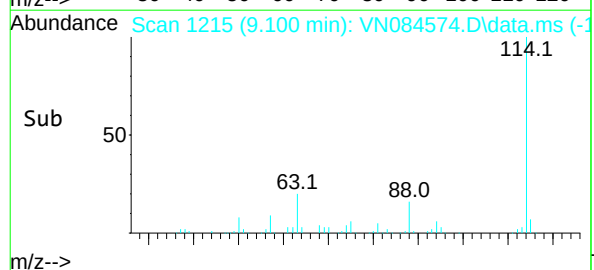
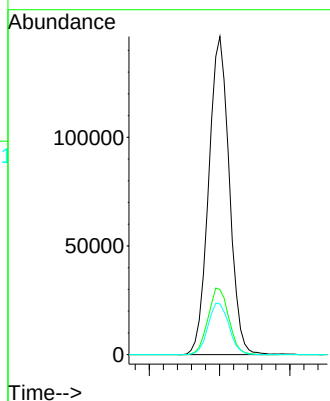
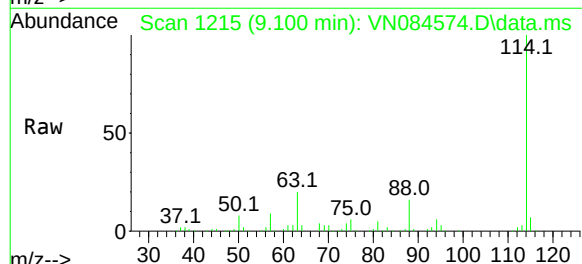
Tgt Ion:114 Resp: 297777

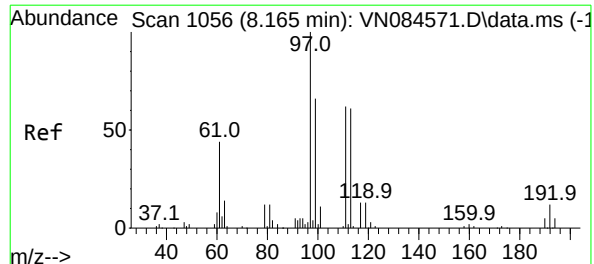
Ion Ratio Lower Upper

114 100

63 20.5 0.0 43.8

88 15.9 0.0 31.6





#35

Dibromofluoromethane

Concen: 5.215 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:113 Resp: 10512

Ion Ratio Lower Upper

113 100

111 100.0 83.3 124.9

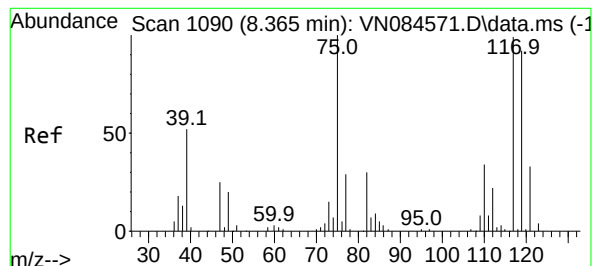
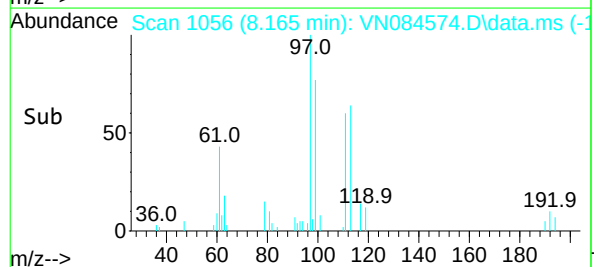
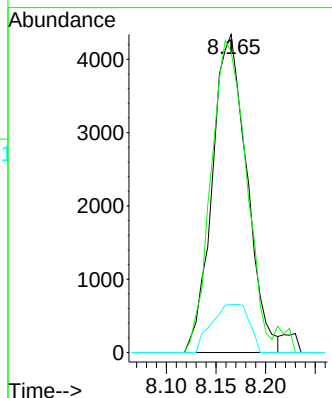
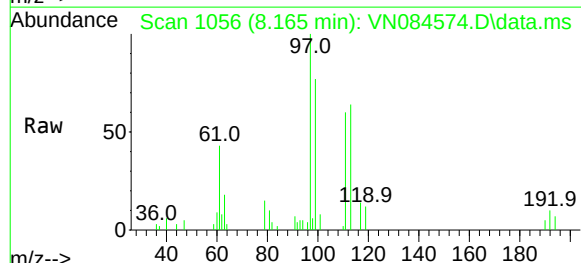
192 16.2 13.5 20.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#36

1,1-Dichloropropene

Concen: 5.077 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

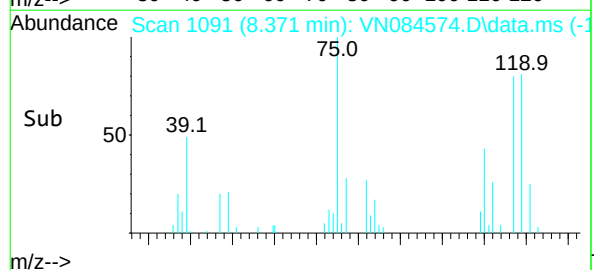
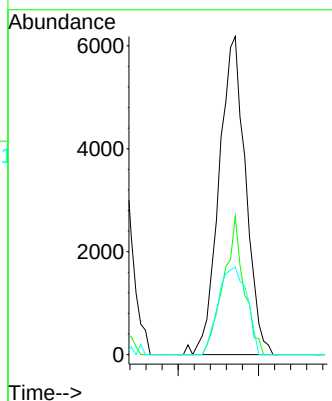
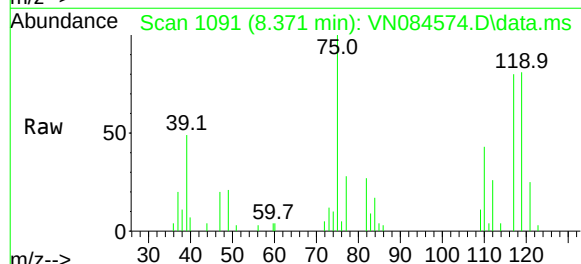
Tgt Ion: 75 Resp: 14193

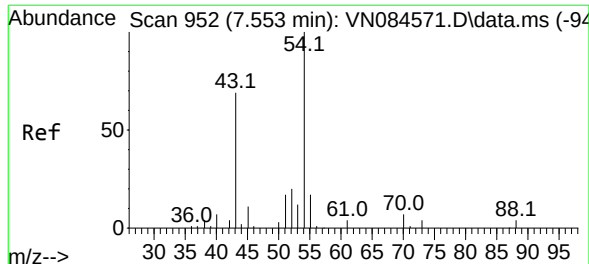
Ion Ratio Lower Upper

75 100

110 33.4 16.9 50.7

77 29.6 24.7 37.1





#37

Ethyl Acetate

Concen: 5.474 ug/l

RT: 7.559 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

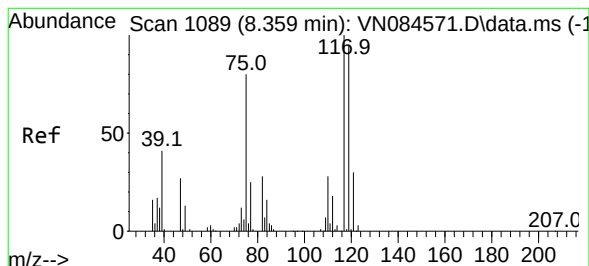
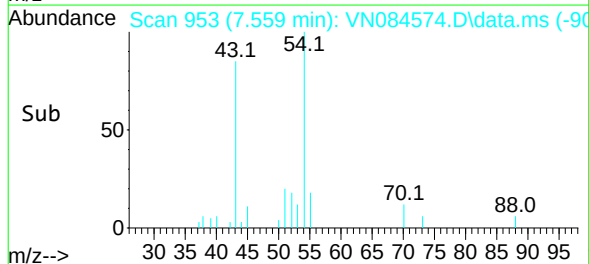
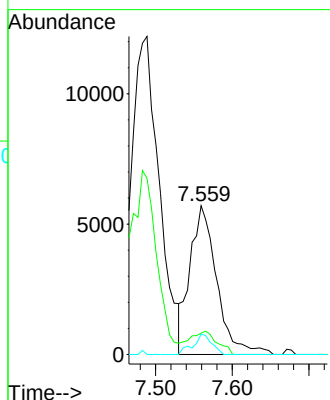
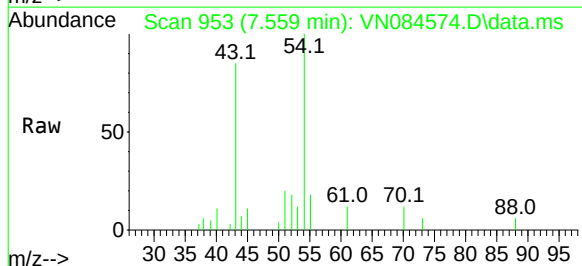
ClientSampleId :

VSTDICC005

Tgt Ion:	43	Resp:	13884
Ion	Ratio	Lower	Upper
43	100		
61	16.4	10.7	16.1
70	9.5	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#38

Carbon Tetrachloride

Concen: 5.113 ug/l

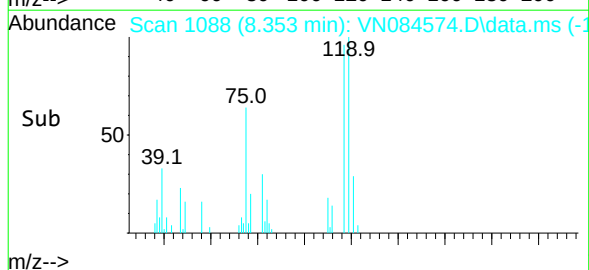
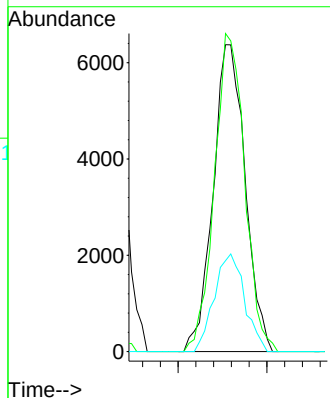
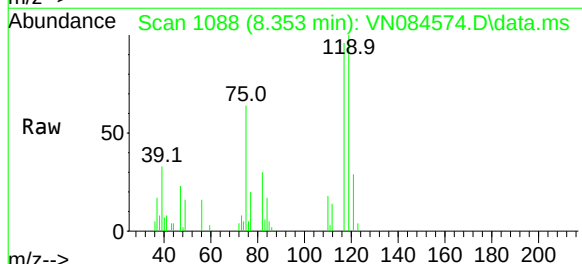
RT: 8.353 min Scan# 1088

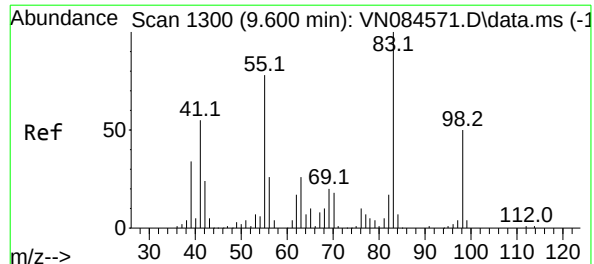
Delta R.T. -0.006 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Tgt Ion:	117	Resp:	15977
Ion	Ratio	Lower	Upper
117	100		
119	103.6	78.7	118.1
121	29.6	24.4	36.6





#39

Methylcyclohexane

Concen: 4.791 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 83 Resp: 13624

Ion Ratio Lower Upper

83 100

55 81.9 62.8 94.2

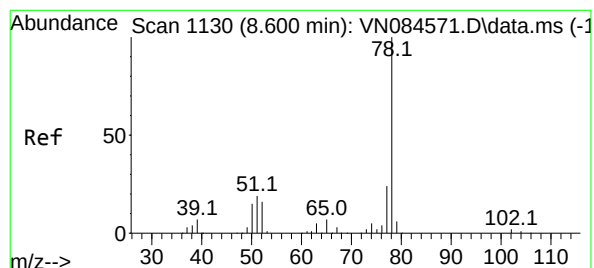
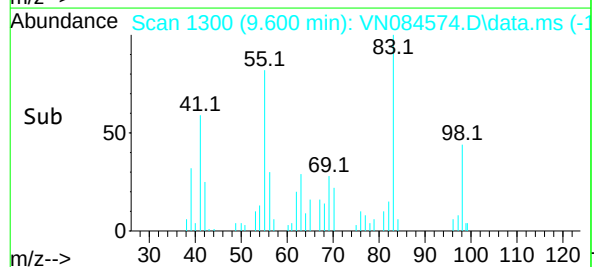
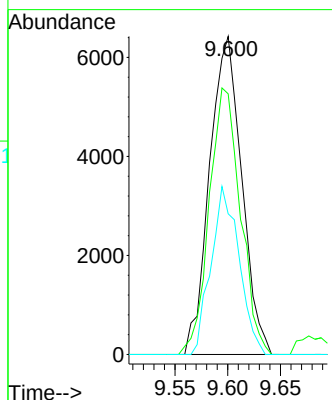
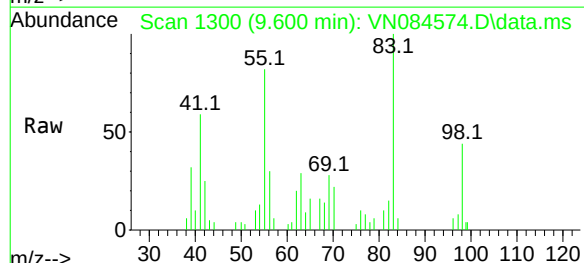
98 44.2 38.8 58.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#40

Benzene

Concen: 5.129 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VN084574.D

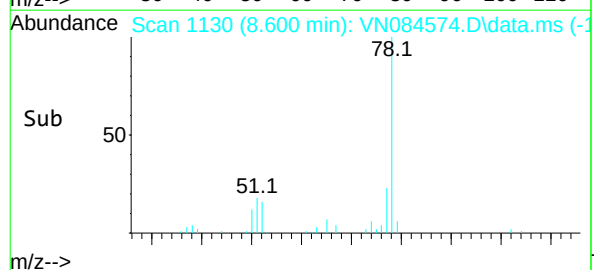
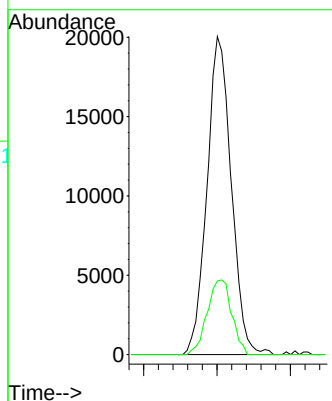
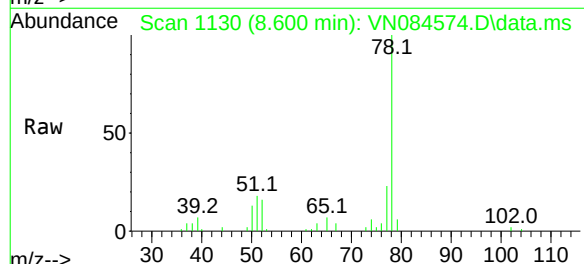
Acq: 30 Oct 2024 13:21

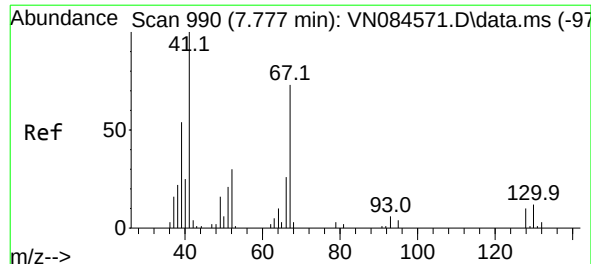
Tgt Ion: 78 Resp: 46044

Ion Ratio Lower Upper

78 100

77 23.2 19.1 28.7





#41

Methacrylonitrile

Concen: 5.199 ug/l

RT: 7.771 min Scan# 98

Delta R.T. -0.006 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 41 Resp: 7091

Ion Ratio Lower Upper

41 100

39 55.8 43.3 64.9

67 73.5 56.1 84.1

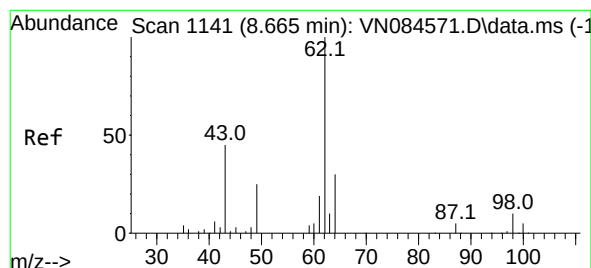
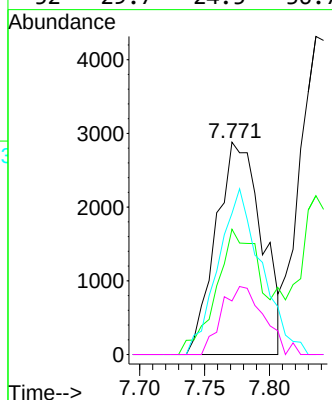
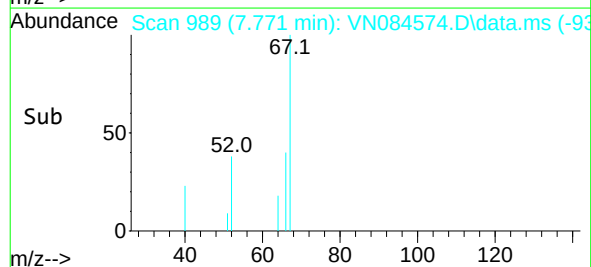
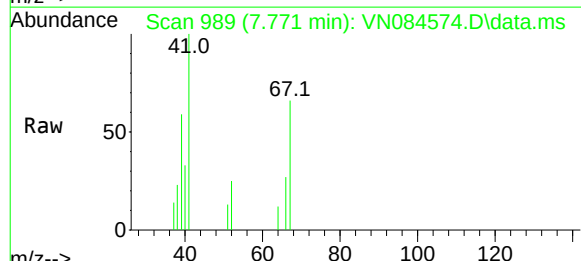
52 29.7 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#42

1,2-Dichloroethane

Concen: 5.150 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.006 min

Lab File: VN084574.D

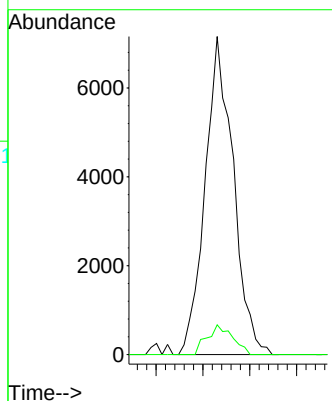
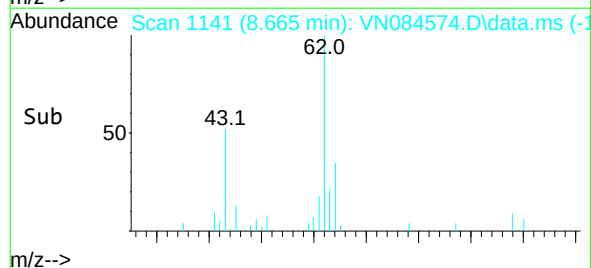
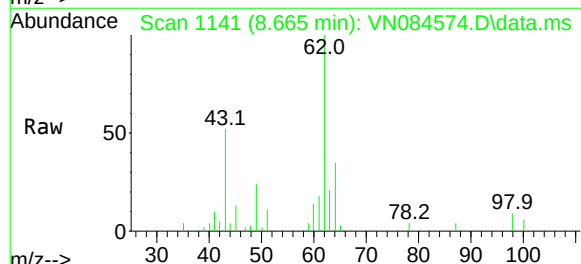
Acq: 30 Oct 2024 13:21

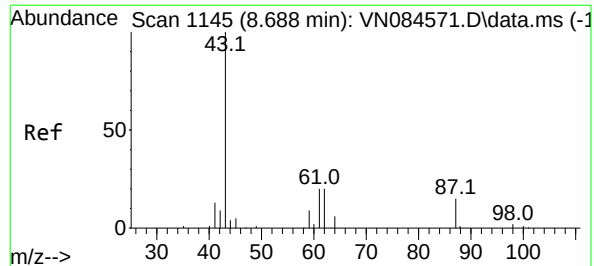
Tgt Ion: 62 Resp: 14972

Ion Ratio Lower Upper

62 100

98 8.5 0.0 18.2





#43

Isopropyl Acetate

Concen: 5.554 ug/l

RT: 8.689 min Scan# 1145

Delta R.T. 0.001 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

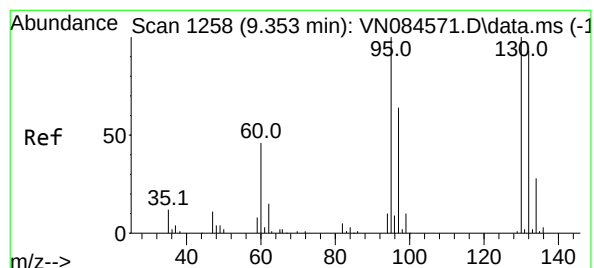
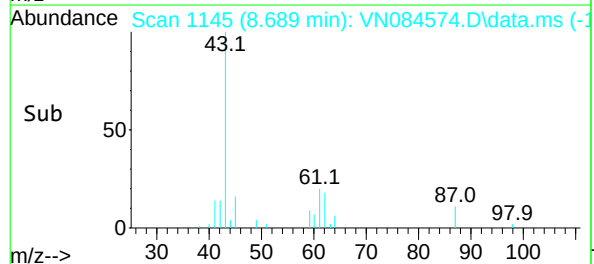
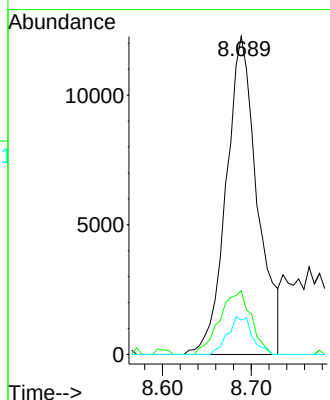
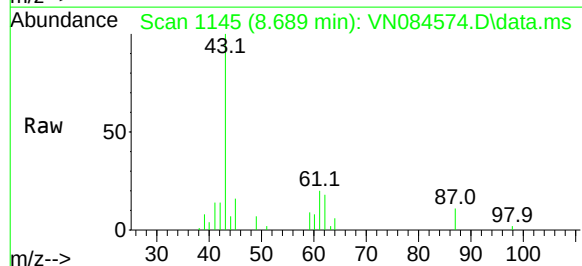
ClientSampleId :

VSTDICC005

Tgt Ion:	43	Resp:	30044
Ion	Ratio	Lower	Upper
43	100		
61	20.1	20.4	30.6
87	9.3	10.3	15.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#44

Trichloroethene

Concen: 4.911 ug/l

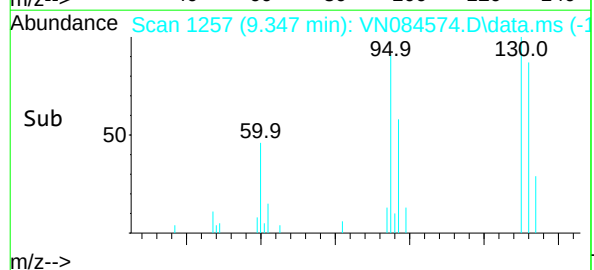
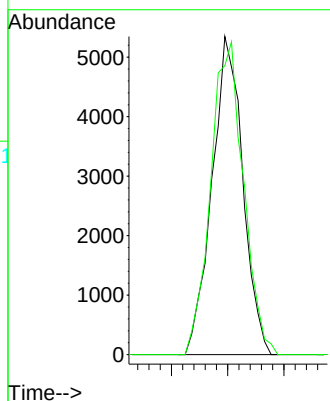
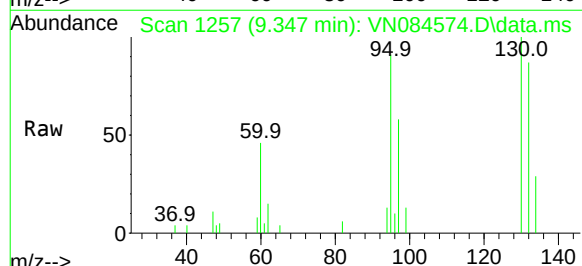
RT: 9.347 min Scan# 1257

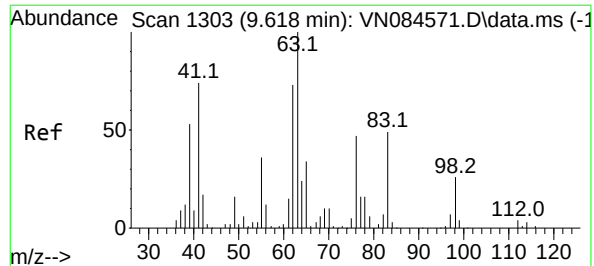
Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Tgt Ion:	130	Resp:	10168
Ion	Ratio	Lower	Upper
130	100		
95	90.9	0.0	203.0





#45

1,2-Dichloropropane

Concen: 5.269 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 63 Resp: 11095

Ion Ratio Lower Upper

63 100

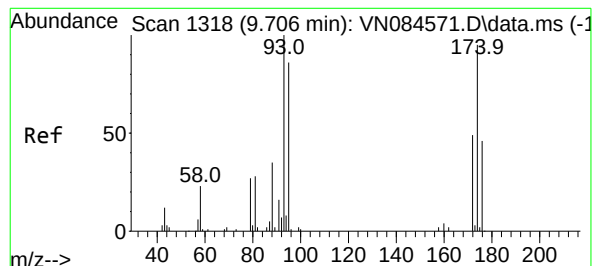
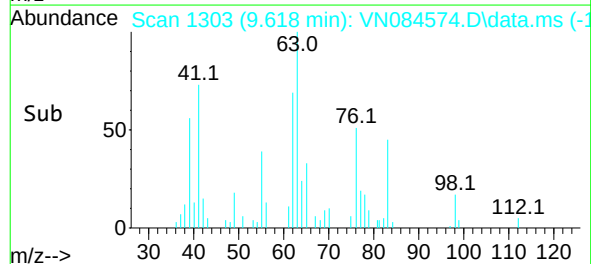
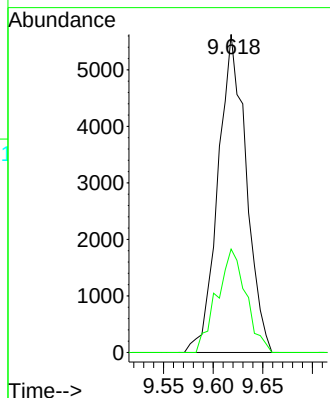
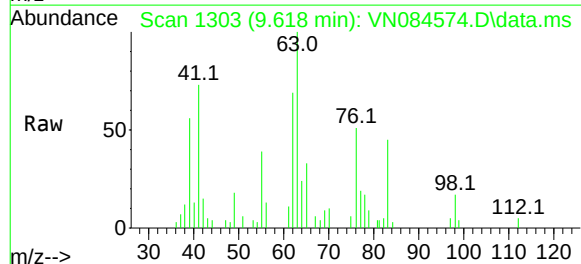
65 32.5 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#46

Dibromomethane

Concen: 5.217 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

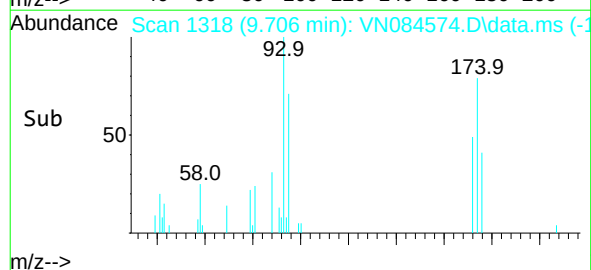
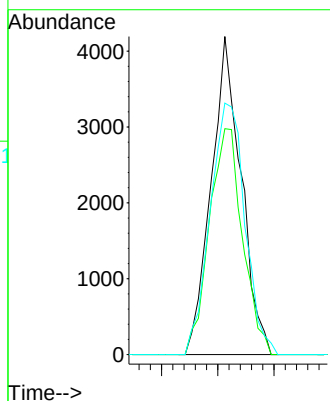
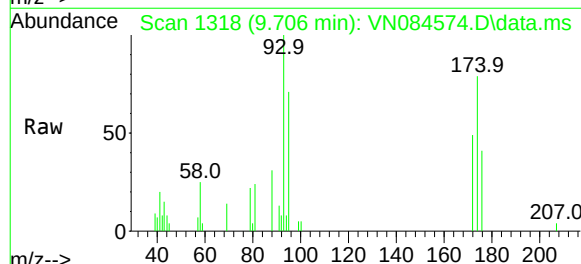
Tgt Ion: 93 Resp: 7752

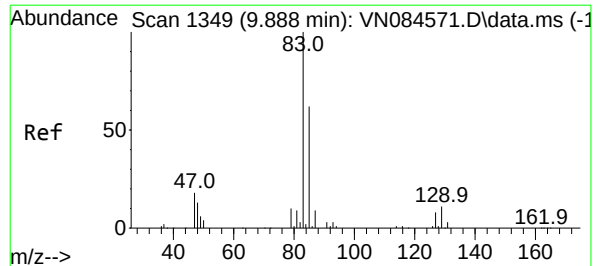
Ion Ratio Lower Upper

93 100

95 78.8 65.0 97.4

174 92.1 71.8 107.8





#47

Bromodichloromethane

Concen: 5.028 ug/l

RT: 9.889 min Scan# 1349

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

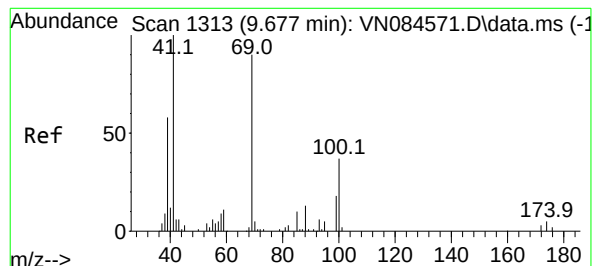
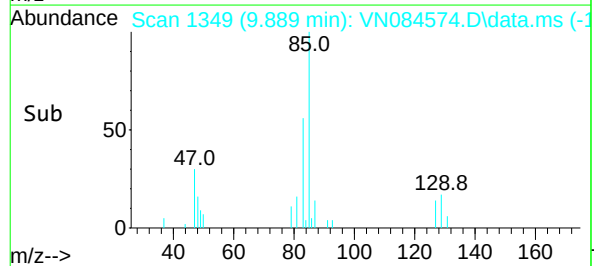
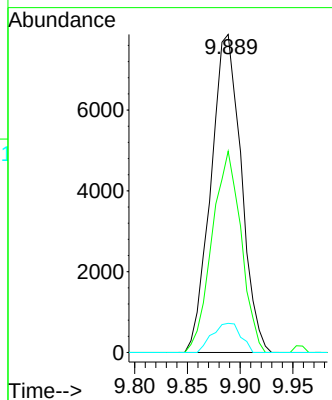
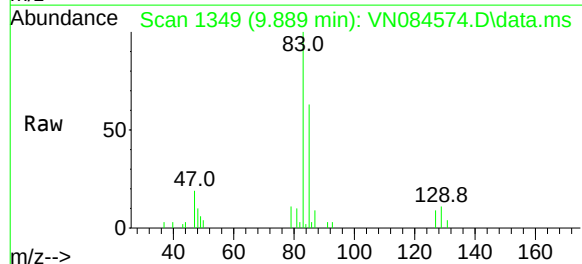
VSTDIC005

Tgt Ion:	83	Resp:	15749
Ion	Ratio	Lower	Upper
83	100		
85	63.3	51.5	77.3
127	9.2	5.7	8.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#48

Methyl methacrylate

Concen: 5.051 ug/l

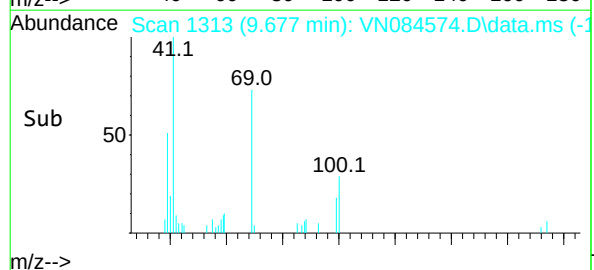
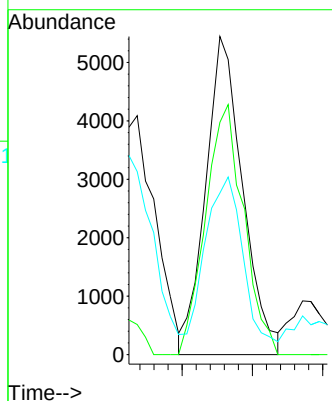
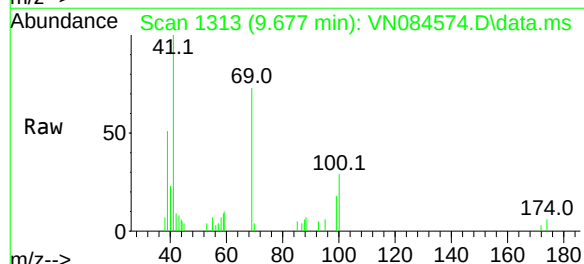
RT: 9.677 min Scan# 1313

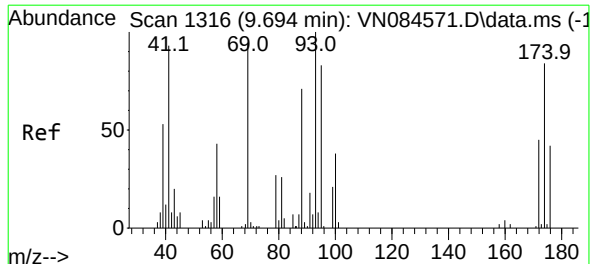
Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Tgt Ion:	41	Resp:	9971
Ion	Ratio	Lower	Upper
41	100		
69	80.8	67.1	100.7
39	59.6	45.8	68.6





#49

1,4-Dioxane

Concen: 106.609 ug/l

RT: 9.700 min Scan# 1316

Delta R.T. 0.006 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 88 Resp: 3729

Ion Ratio Lower Upper

88 100

43 29.3 25.3 37.9

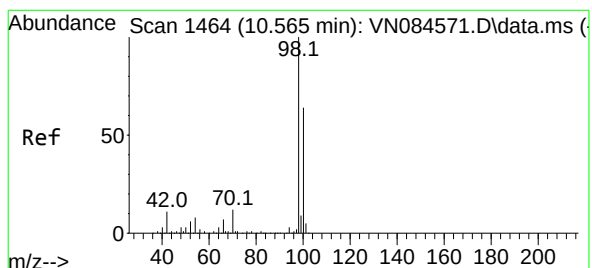
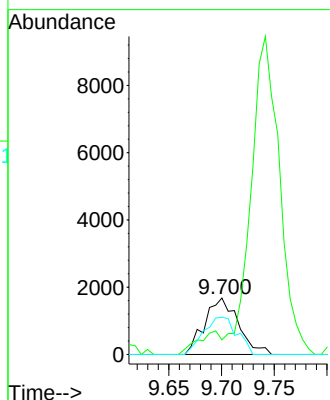
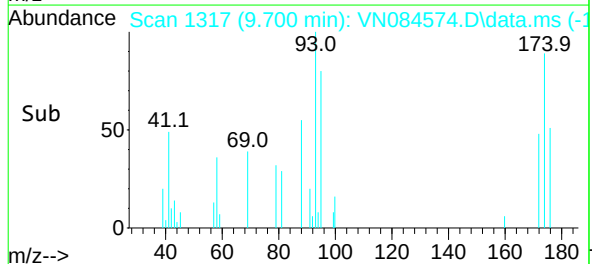
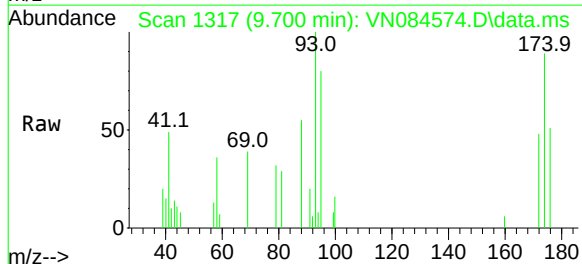
58 65.6 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#50

Toluene-d8

Concen: 4.879 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN084574.D

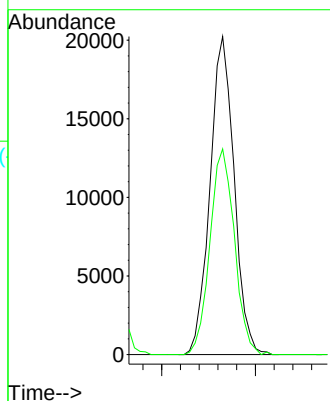
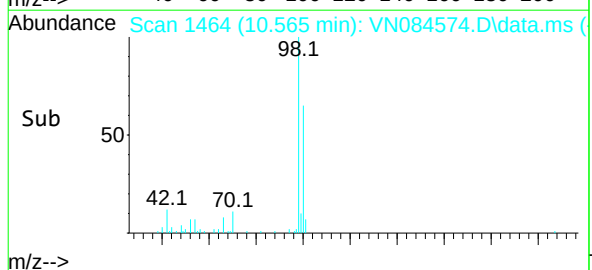
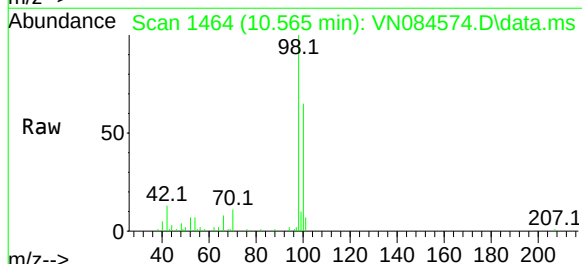
Acq: 30 Oct 2024 13:21

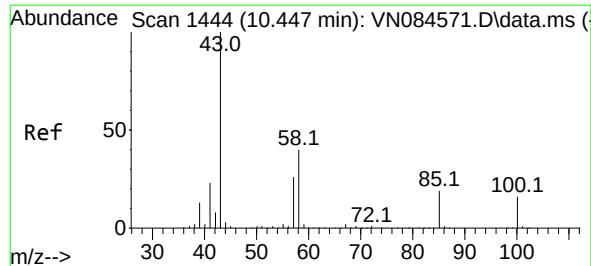
Tgt Ion: 98 Resp: 36225

Ion Ratio Lower Upper

98 100

100 65.6 52.7 79.1





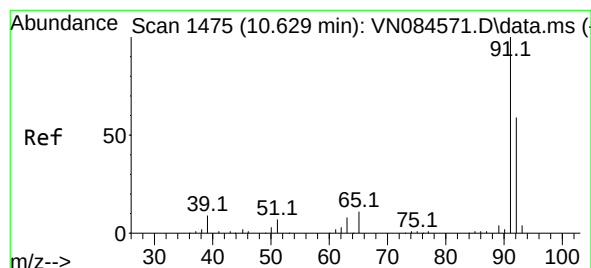
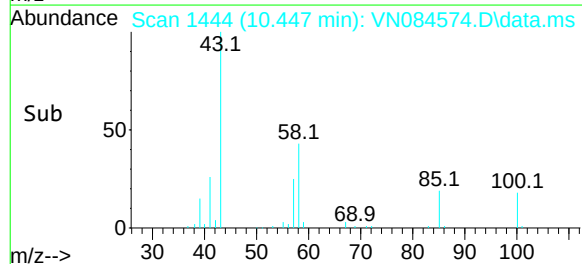
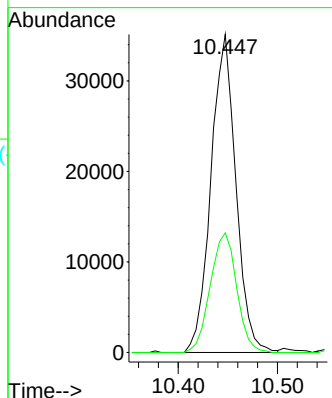
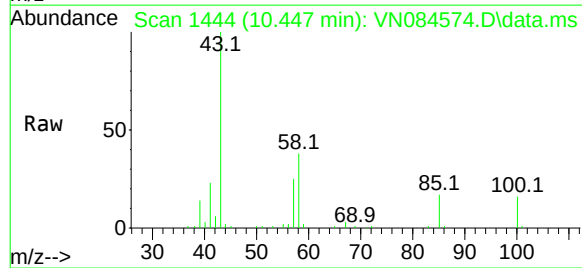
#51
4-Methyl-2-Pentanone
Concen: 25.367 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN084574.D
Acq: 30 Oct 2024 13:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 43 Resp: 61332
Ion Ratio Lower Upper
43 100
58 39.7 31.6 47.4

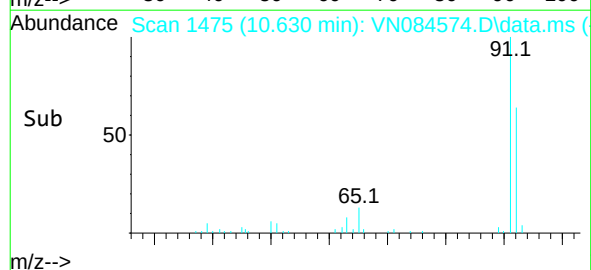
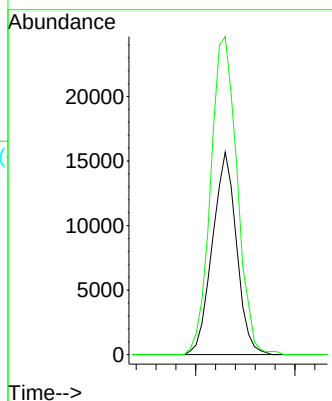
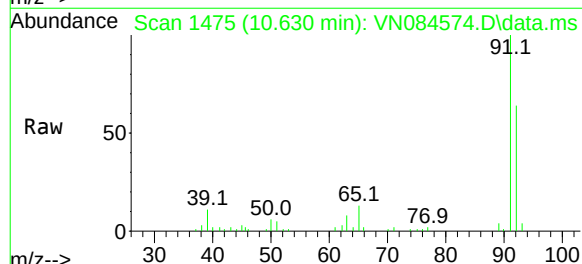
Manual Integrations
APPROVED

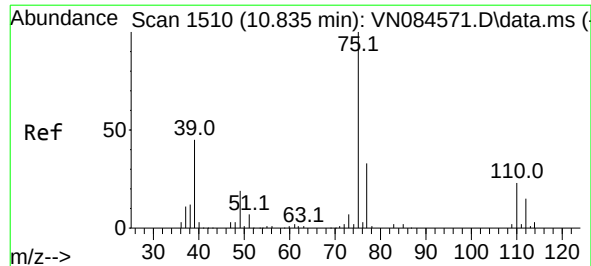
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#52
Toluene
Concen: 5.051 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN084574.D
Acq: 30 Oct 2024 13:21

Tgt Ion: 92 Resp: 26518
Ion Ratio Lower Upper
92 100
91 172.5 137.3 205.9





#53

t-1,3-Dichloropropene

Concen: 5.021 ug/l

RT: 10.836 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 16279

Ion Ratio Lower Upper

75 100

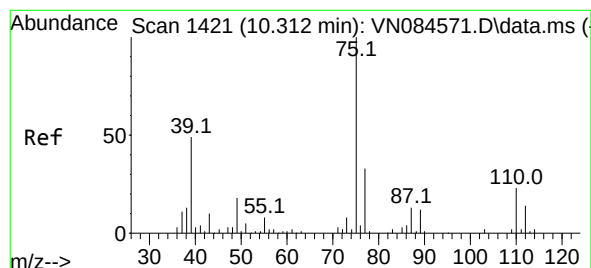
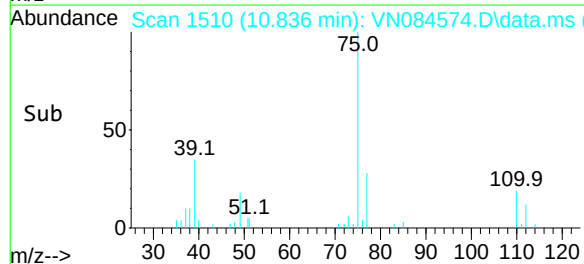
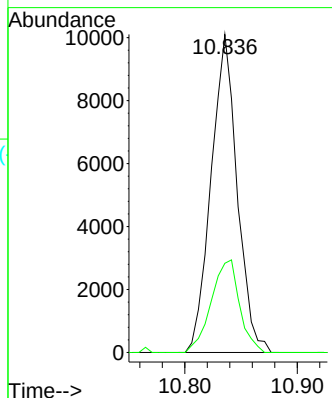
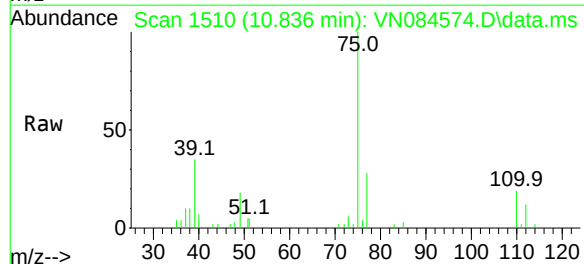
77 28.0 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#54

cis-1,3-Dichloropropene

Concen: 5.069 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

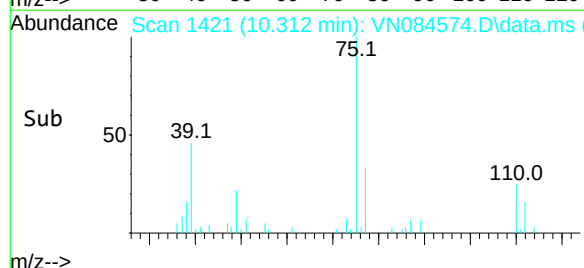
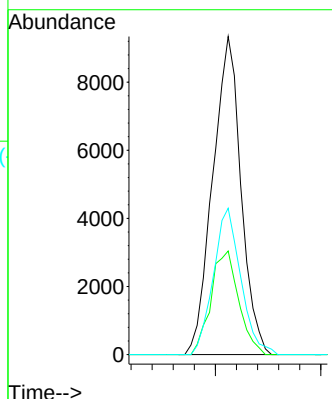
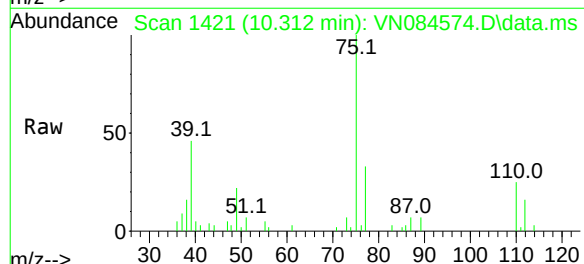
Tgt Ion: 75 Resp: 17395

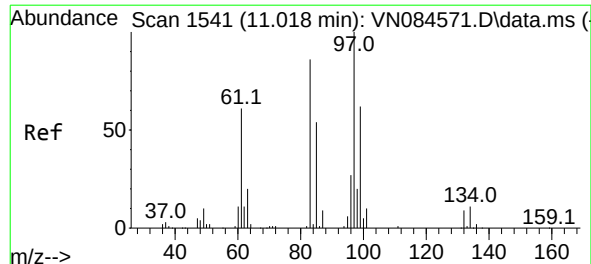
Ion Ratio Lower Upper

75 100

77 32.6 24.2 36.2

39 46.0 38.7 58.1





#55

1,1,2-Trichloroethane

Concen: 5.154 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. 0.006 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 97 Resp: 10193

Ion Ratio Lower Upper

97 100

83 76.4 71.0 106.4

85 50.7 41.7 62.5

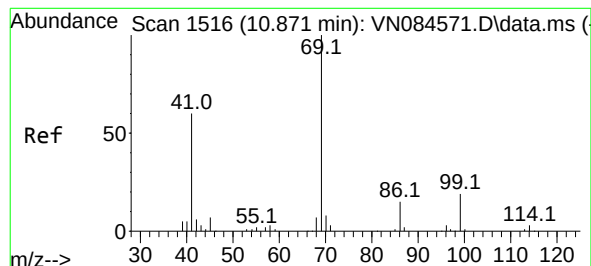
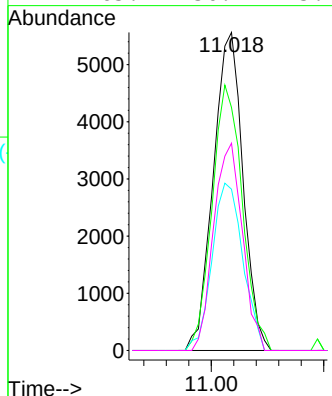
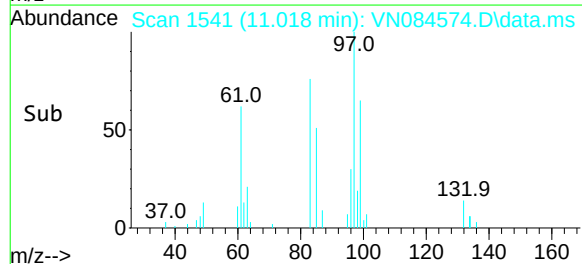
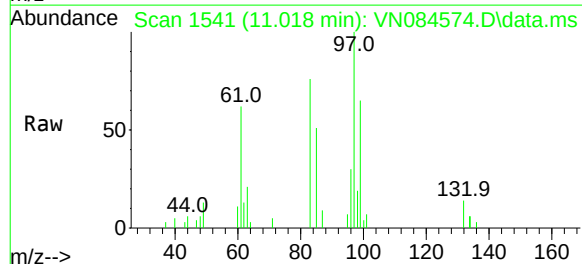
99 65.2 50.1 75.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#56

Ethyl methacrylate

Concen: 4.671 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

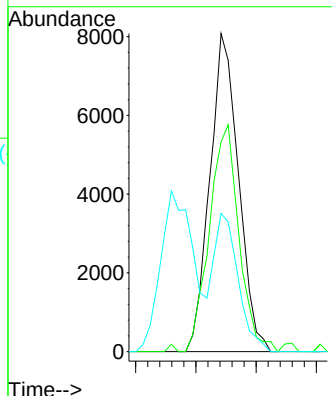
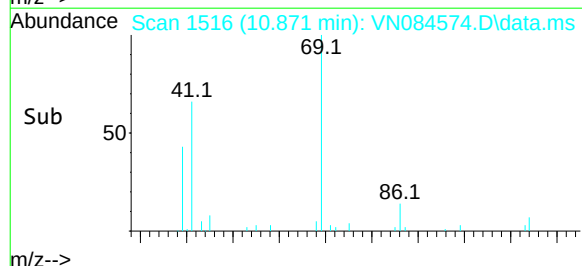
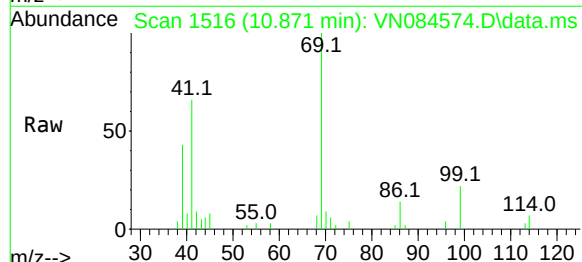
Tgt Ion: 69 Resp: 13362

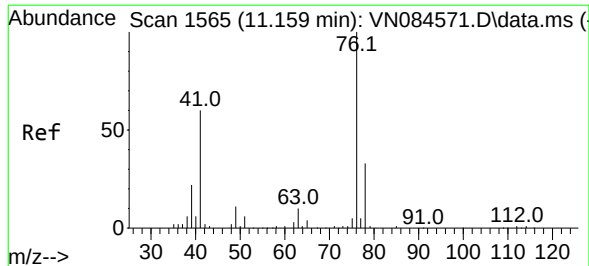
Ion Ratio Lower Upper

69 100

41 73.3 53.3 79.9

39 36.7 28.8 43.2





#57

1,3-Dichloropropane

Concen: 5.249 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. 0.006 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 17816

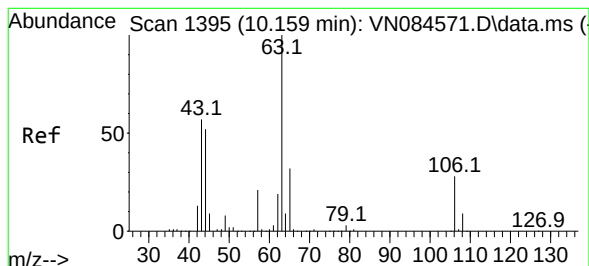
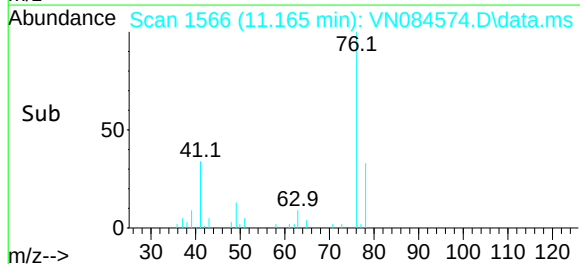
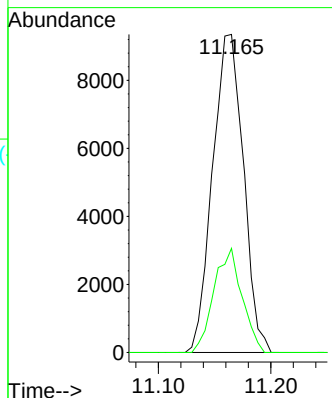
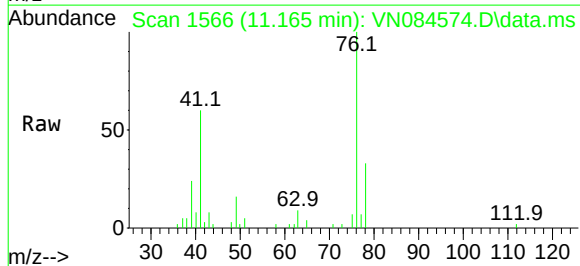
Ion Ratio Lower Upper

76 100

78 29.8 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#58

2-Chloroethyl Vinyl ether

Concen: 22.477 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN084574.D

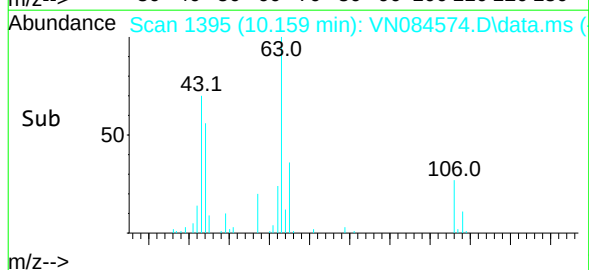
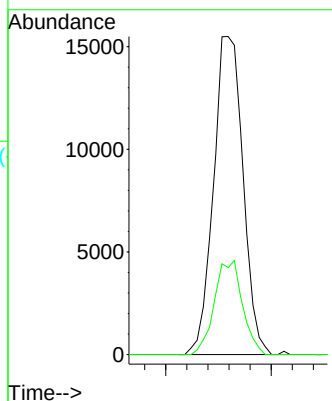
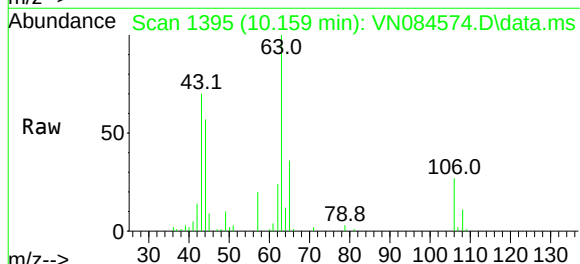
Acq: 30 Oct 2024 13:21

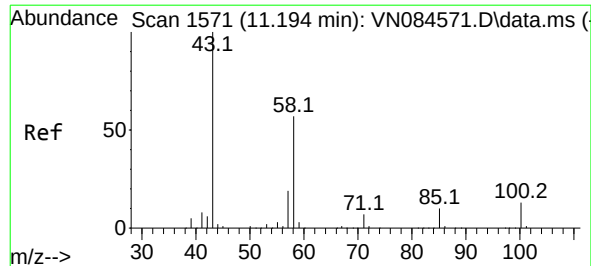
Tgt Ion: 63 Resp: 30088

Ion Ratio Lower Upper

63 100

106 28.1 21.8 32.6





#59

2-Hexanone

Concen: 24.860 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 43750

Ion Ratio Lower Upper

43 100

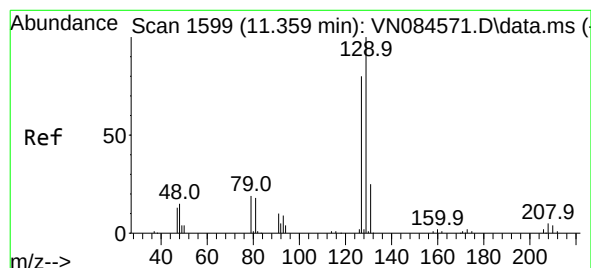
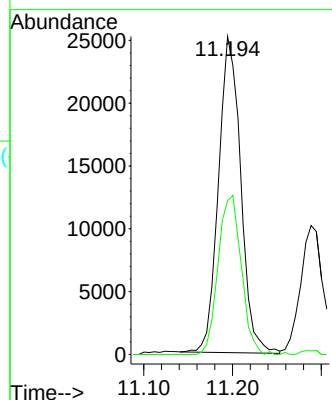
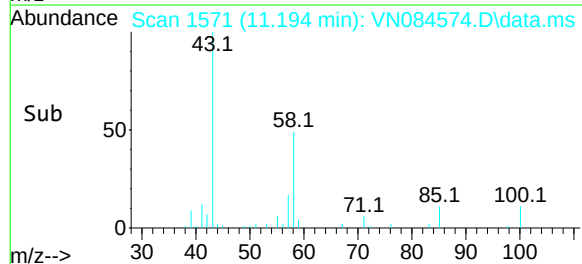
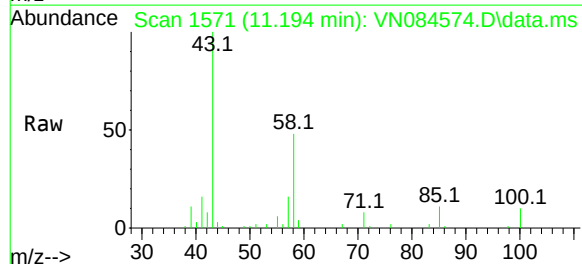
58 52.3 27.3 81.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#60

Dibromochloromethane

Concen: 4.980 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN084574.D

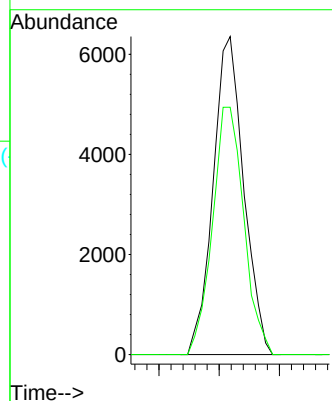
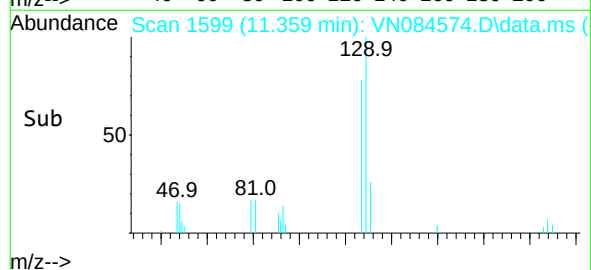
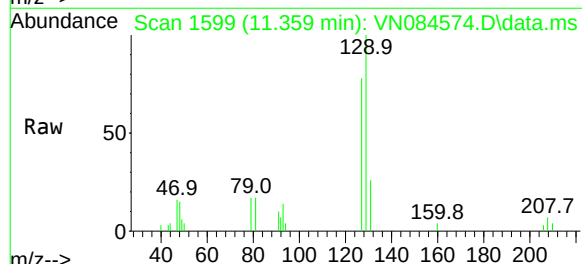
Acq: 30 Oct 2024 13:21

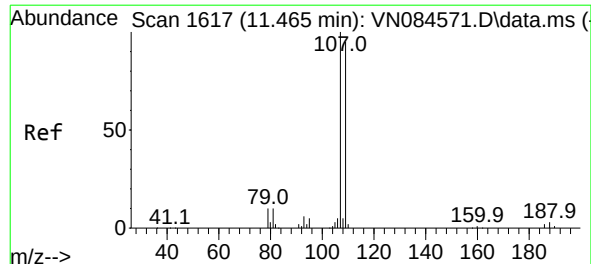
Tgt Ion:129 Resp: 11226

Ion Ratio Lower Upper

129 100

127 79.6 38.3 114.9





#61

1,2-Dibromoethane

Concen: 5.226 ug/l

RT: 11.471 min Scan# 1617

Delta R.T. 0.006 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 107 Resp: 10584

Ion Ratio Lower Upper

107 100

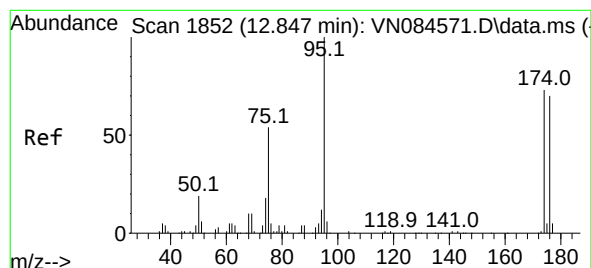
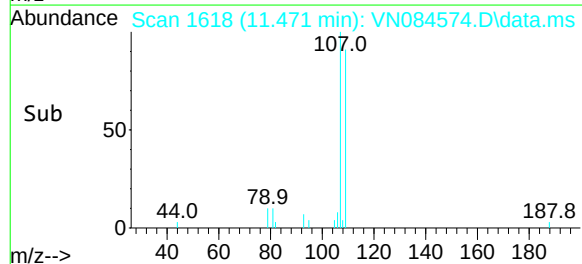
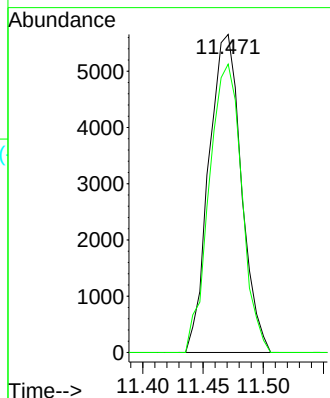
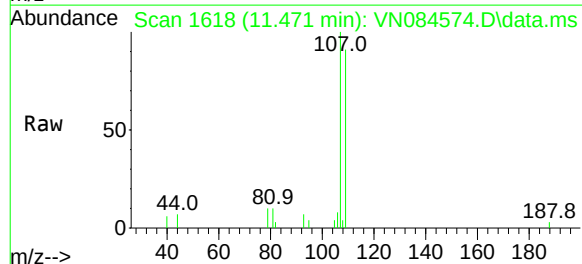
109 91.2 75.4 113.0

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024

Supervised By : Mahesh Dadoda 11/04/2024



#62

4-Bromofluorobenzene

Concen: 4.867 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

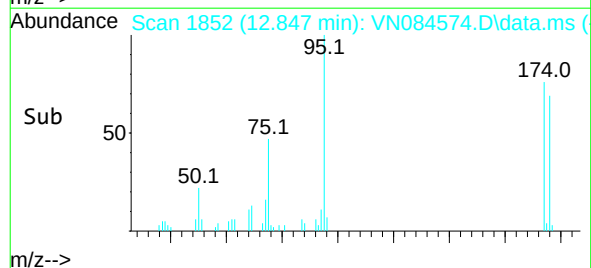
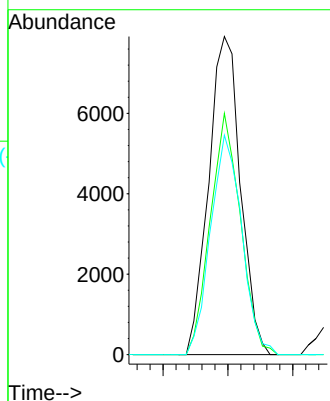
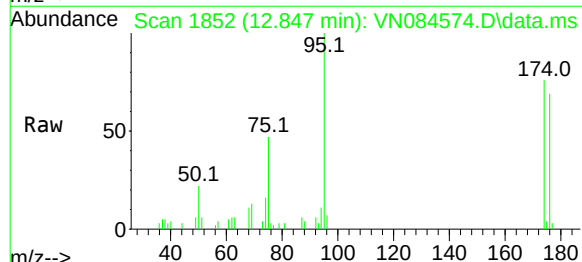
Tgt Ion: 95 Resp: 13506

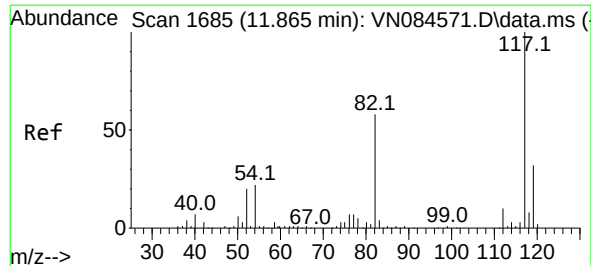
Ion Ratio Lower Upper

95 100

174 71.6 0.0 145.2

176 67.5 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 16

Delta R.T. -0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion:117 Resp: 254342

Ion Ratio Lower Upper

117 100

82 56.8 47.2 70.8

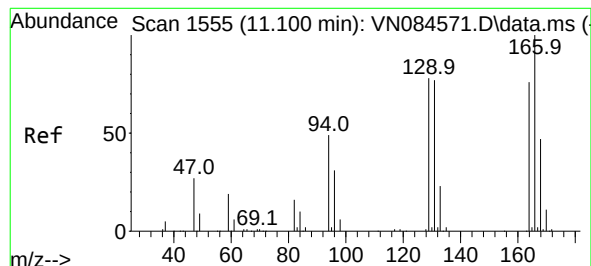
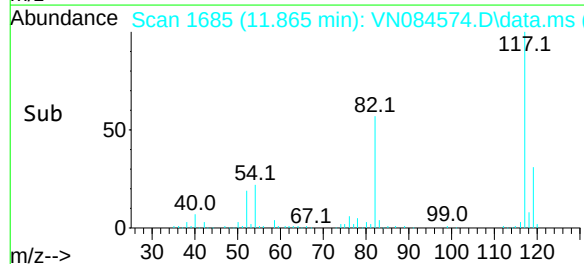
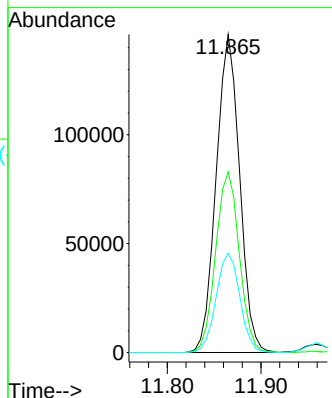
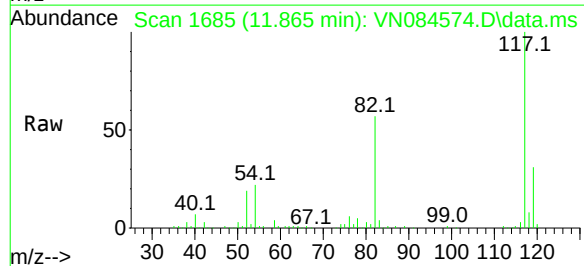
119 31.2 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#64

Tetrachloroethene

Concen: 5.271 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Tgt Ion:164 Resp: 8917

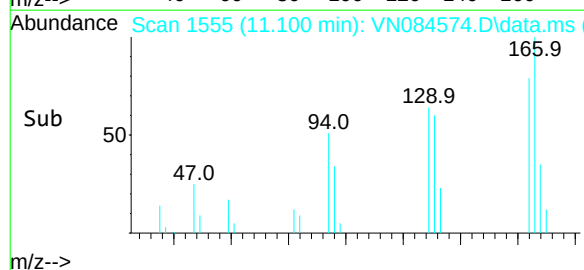
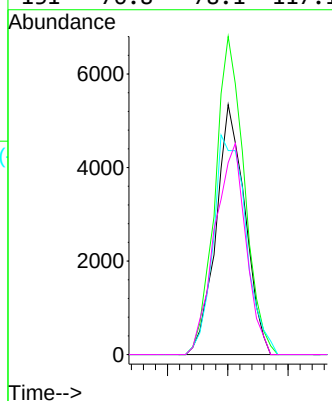
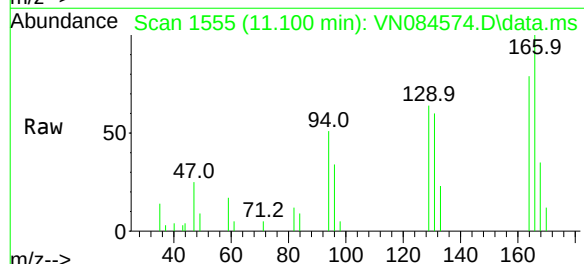
Ion Ratio Lower Upper

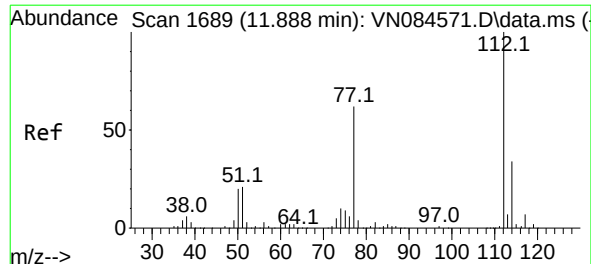
164 100

166 127.3 101.0 151.4

129 81.6 80.8 121.2

131 76.8 78.1 117.1#





#65

Chlorobenzene

Concen: 5.205 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:112 Resp: 29618

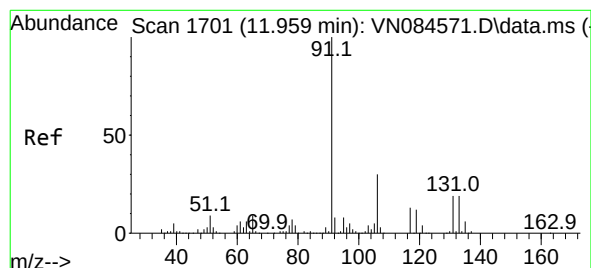
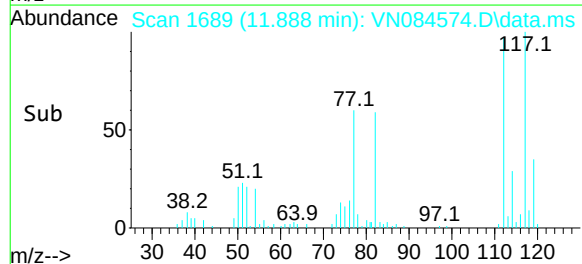
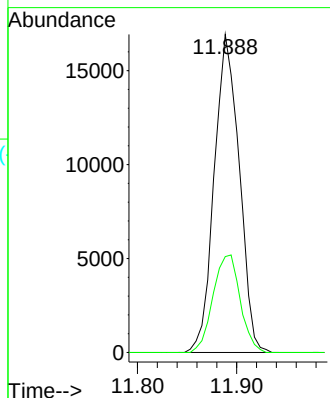
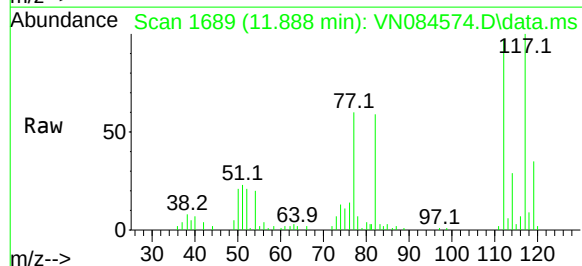
Ion Ratio Lower Upper

112 100

114 30.1 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#66

1,1,1,2-Tetrachloroethane

Concen: 5.186 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

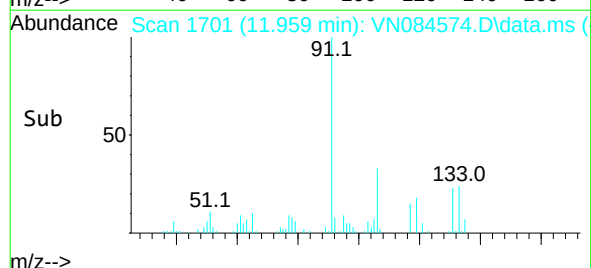
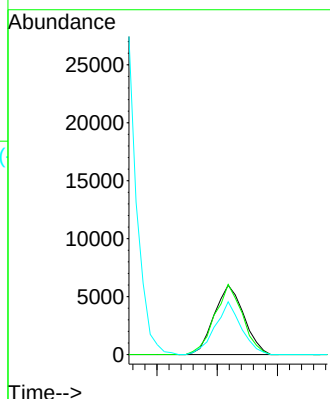
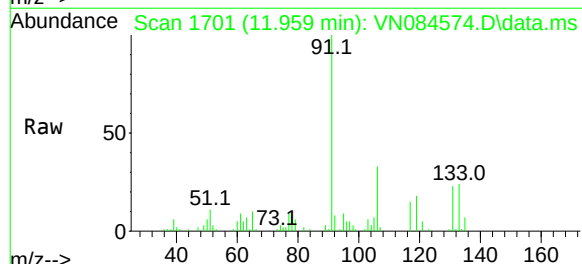
Tgt Ion:131 Resp: 10265

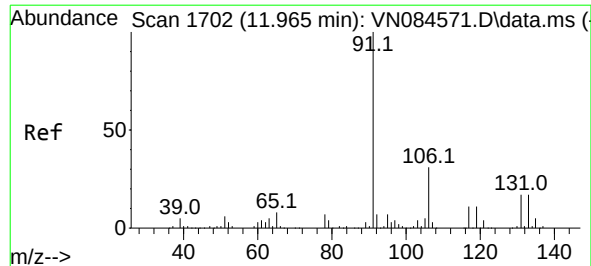
Ion Ratio Lower Upper

131 100

133 94.5 47.9 143.7

119 66.8 32.8 98.3





#67

Ethyl Benzene

Concen: 4.952 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.006 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 47037

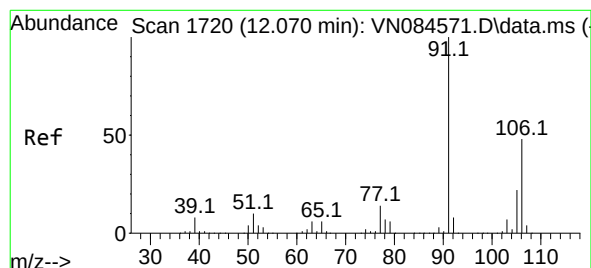
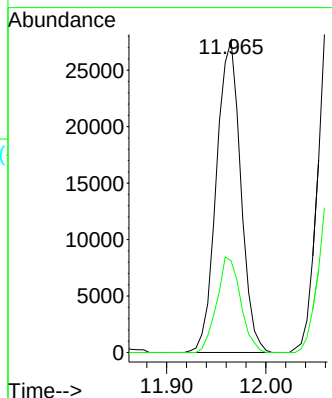
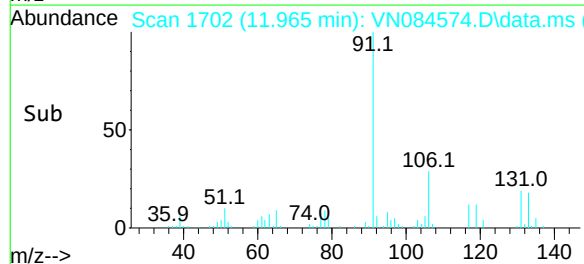
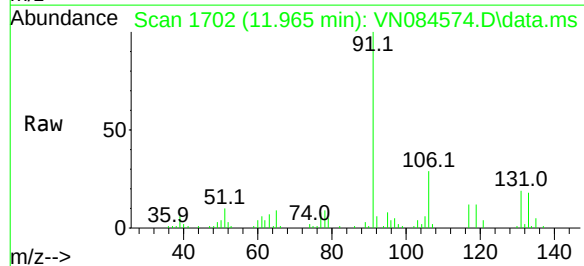
Ion Ratio Lower Upper

91 100

106 29.4 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#68

m/p-Xylenes

Concen: 9.665 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. -0.006 min

Lab File: VN084574.D

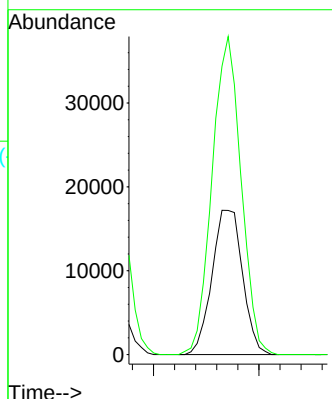
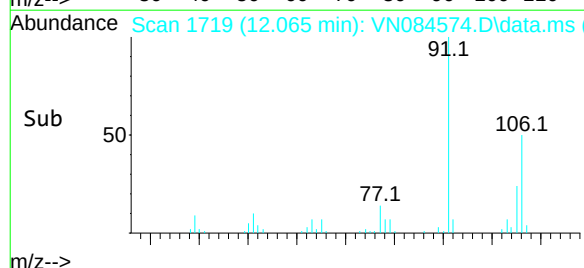
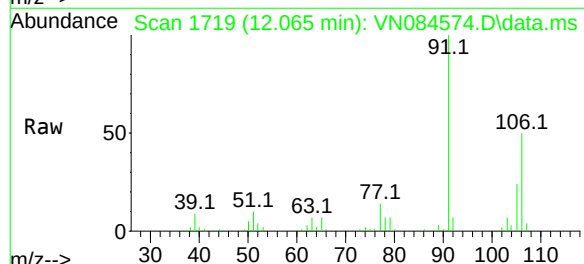
Acq: 30 Oct 2024 13:21

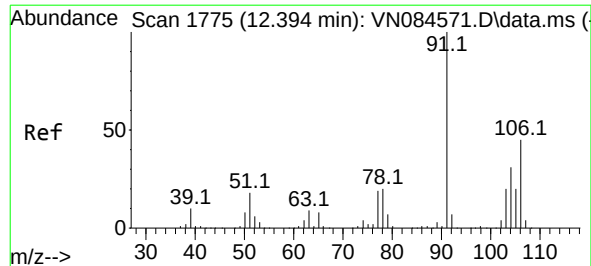
Tgt Ion:106 Resp: 34753

Ion Ratio Lower Upper

106 100

91 208.3 167.1 250.7





#69

o-Xylene

Concen: 4.873 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:106 Resp: 16393

Ion Ratio Lower Upper

106 100

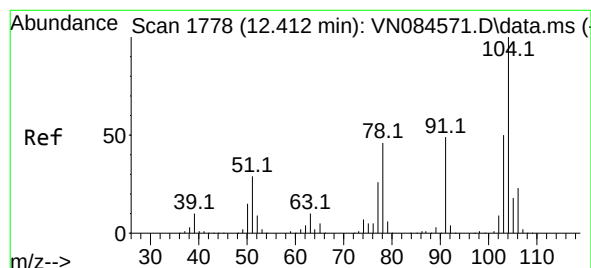
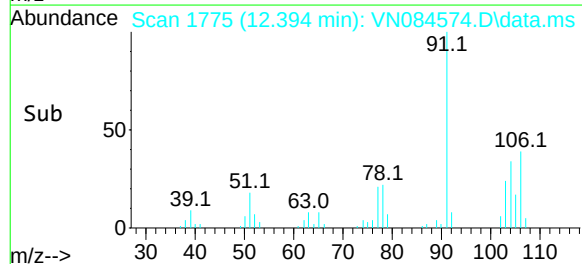
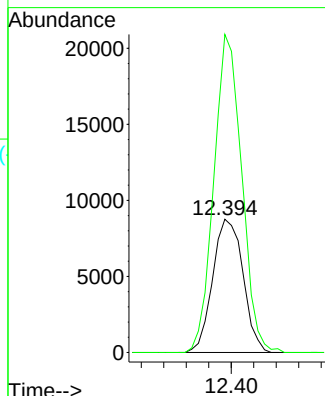
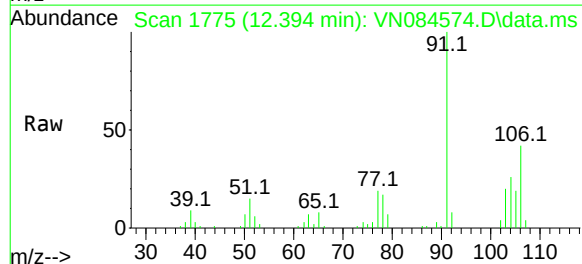
91 219.5 110.2 330.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#70

Styrene

Concen: 4.739 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

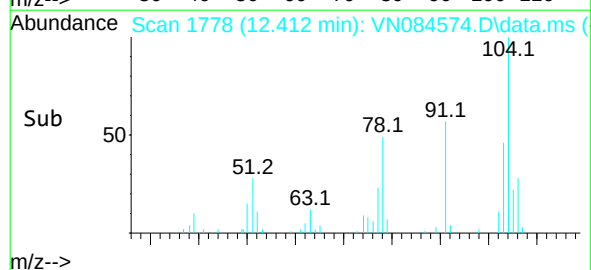
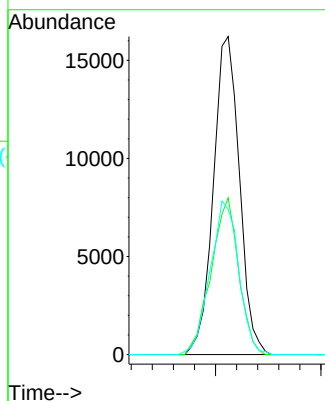
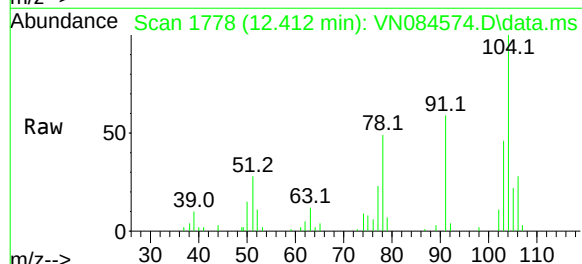
Tgt Ion:104 Resp: 27807

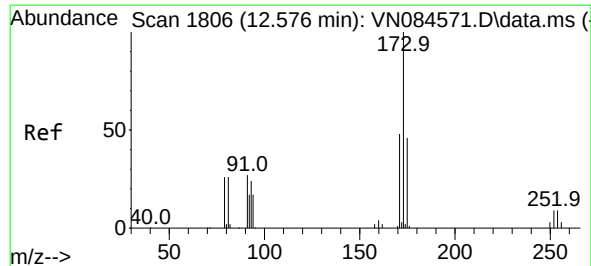
Ion Ratio Lower Upper

104 100

78 52.0 42.7 64.1

103 53.0 43.6 65.4





#71

Bromoform

Concen: 5.161 ug/l

RT: 12.577 min Scan# 18

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

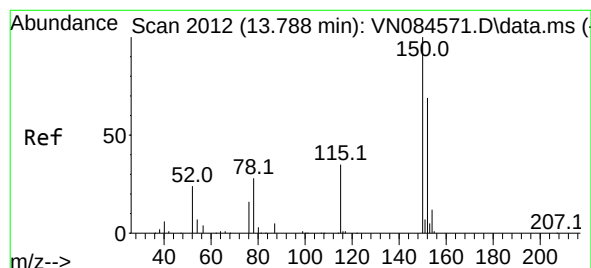
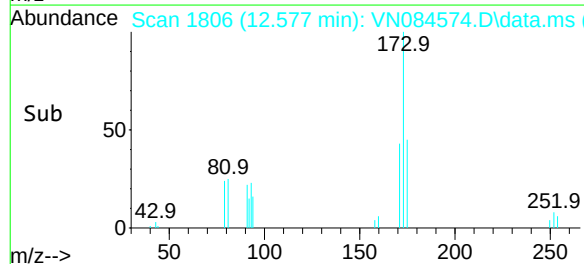
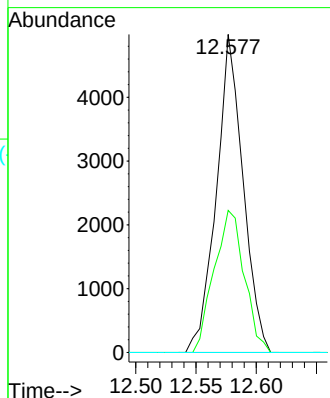
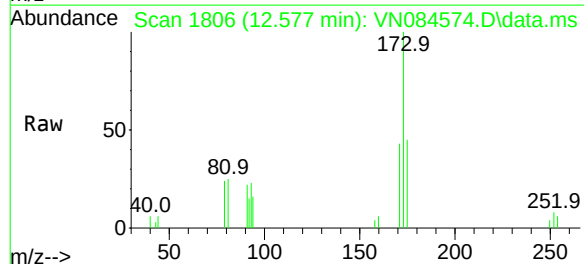
VSTDIC005

Tgt Ion:	173	Resp:	7686
Ion Ratio	Lower	Upper	
173	100		
175	50.5	23.5	70.6
254	0.0	0.0	0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

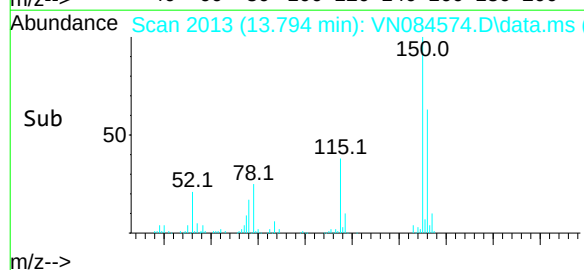
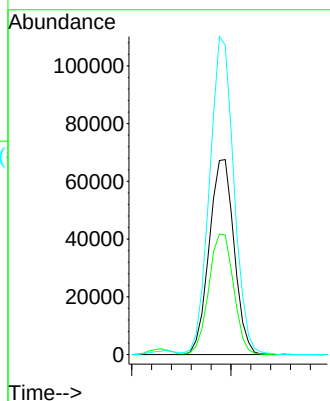
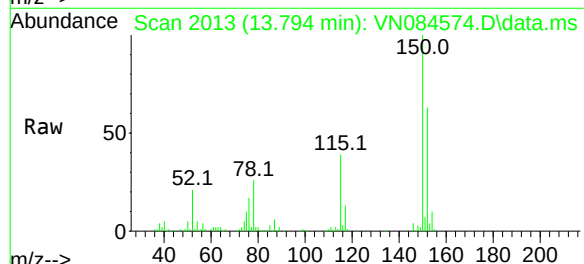
RT: 13.794 min Scan# 2013

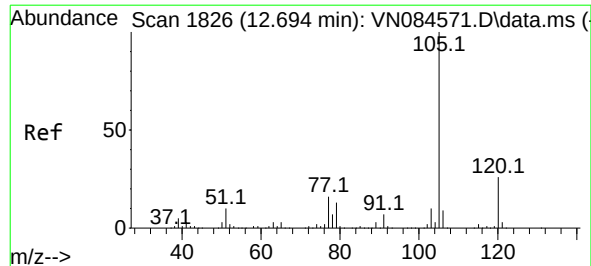
Delta R.T. 0.006 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Tgt Ion:	152	Resp:	118229
Ion Ratio	Lower	Upper	
152	100		
115	61.4	31.3	93.9
150	159.1	0.0	349.8





#73

Isopropylbenzene

Concen: 4.855 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 40223

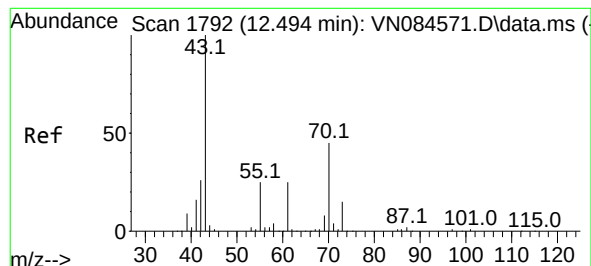
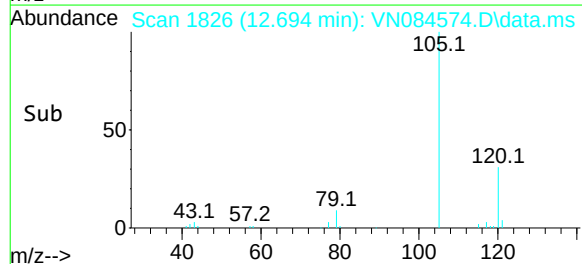
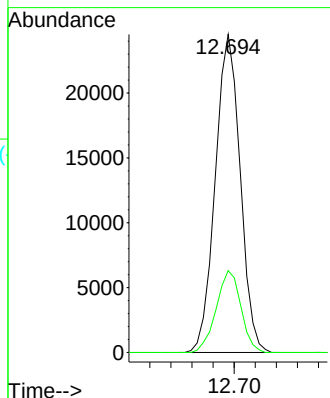
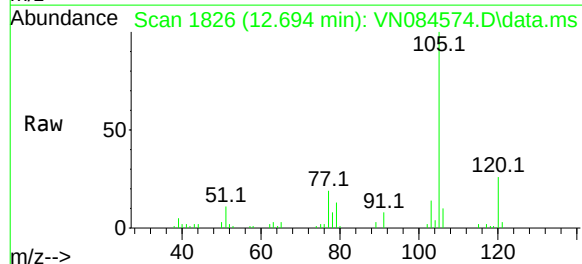
Ion Ratio Lower Upper

105 100

120 25.5 12.9 38.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#74

N-ethyl acetate

Concen: 5.270 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Tgt Ion: 43 Resp: 18583

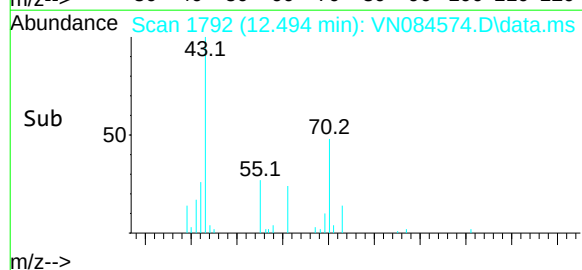
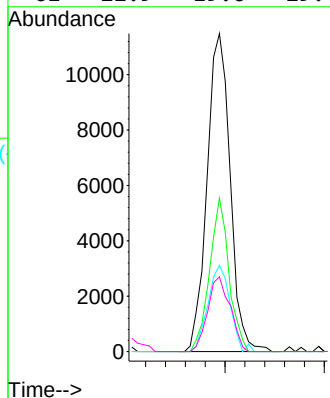
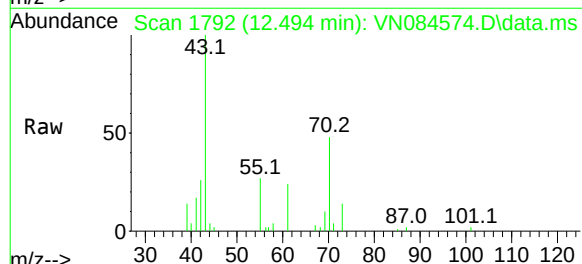
Ion Ratio Lower Upper

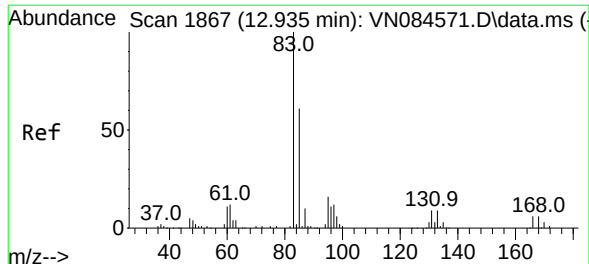
43 100

70 40.5 34.4 51.6

55 25.9 19.6 29.4

61 22.9 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 5.631 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

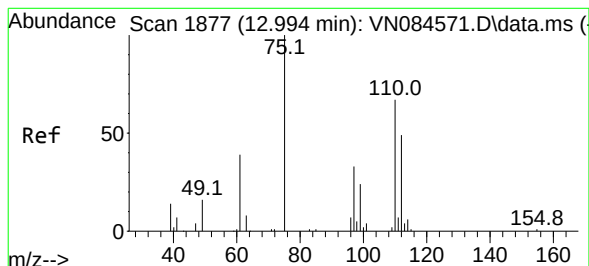
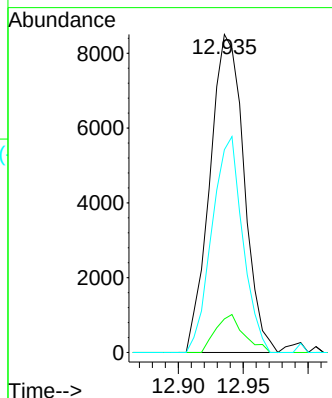
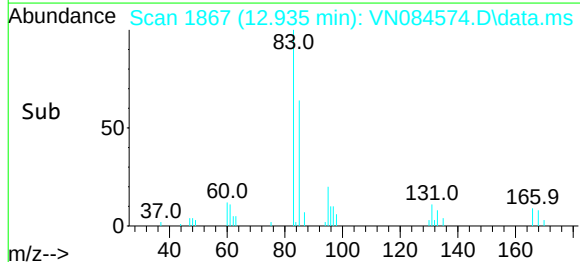
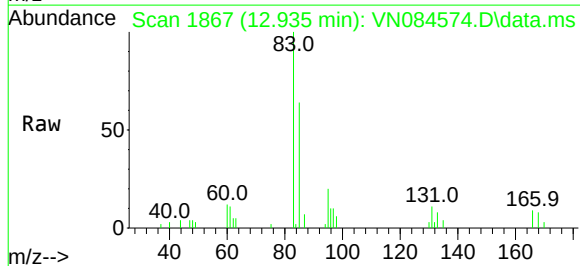
ClientSampleId :

VSTDIC005

Tgt Ion:	83	Resp:	15573
Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.9	14.7
85	61.3	31.9	95.7

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#76

1,2,3-Trichloropropane

Concen: 5.136 ug/l m

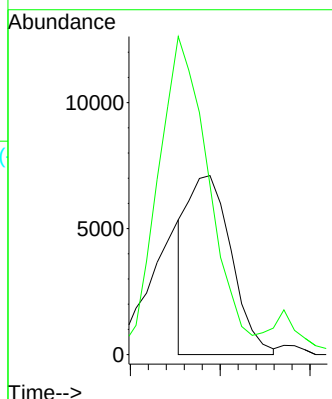
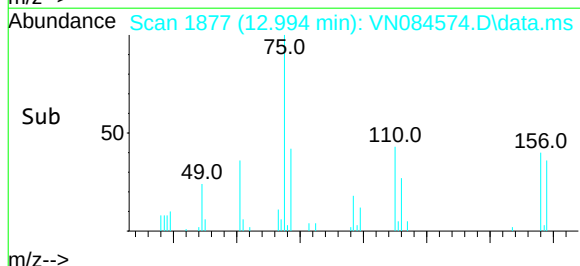
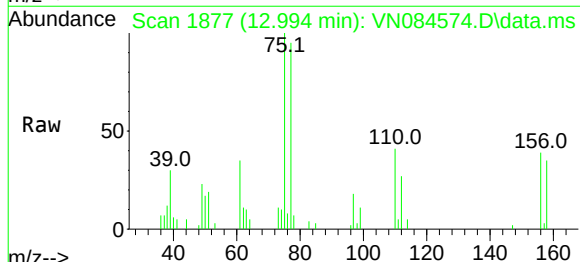
RT: 12.994 min Scan# 1877

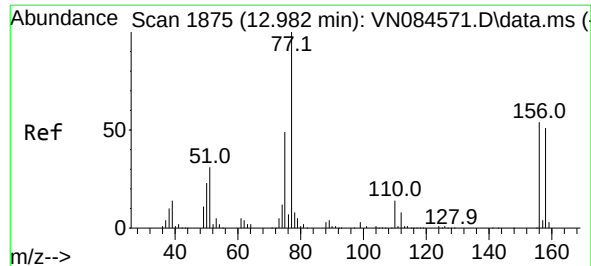
Delta R.T. 0.006 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Tgt Ion:	75	Resp:	11982
Ion	Ratio	Lower	Upper
75	100		
77	208.5	96.9	290.7





#77

Bromobenzene

Concen: 4.944 ug/l

RT: 12.983 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VN084574.D

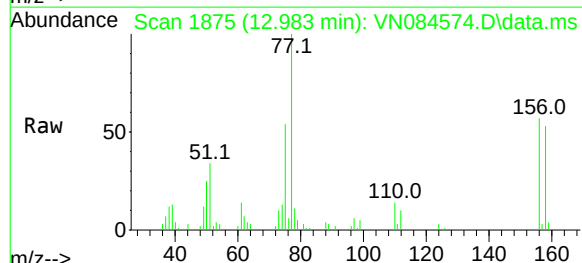
Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005



Tgt Ion: 156 Resp: 11012

Ion Ratio Lower Upper

156 100

77 226.9 115.1 345.3

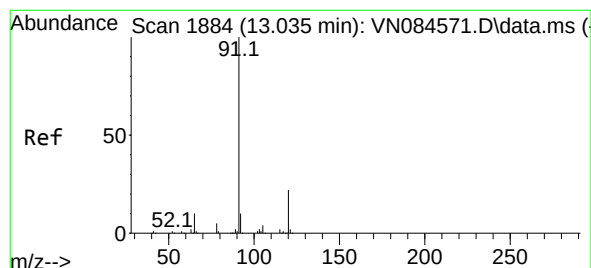
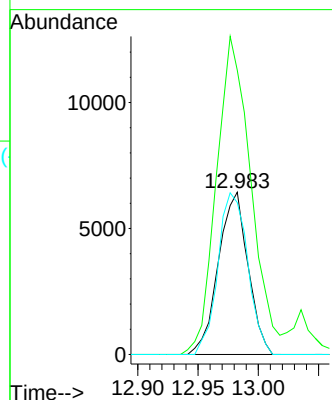
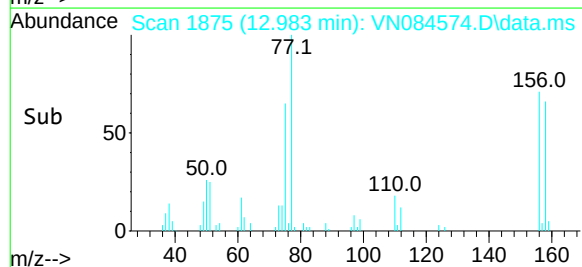
158 100.2 48.9 146.8

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024

Supervised By : Mahesh Dadoda 11/04/2024



#78

n-propylbenzene

Concen: 4.921 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.000 min

Lab File: VN084574.D

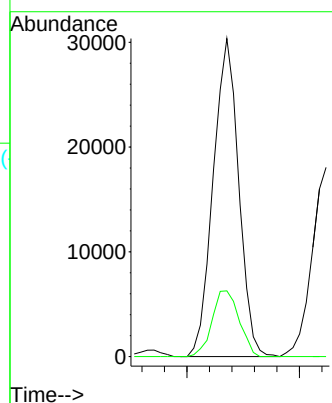
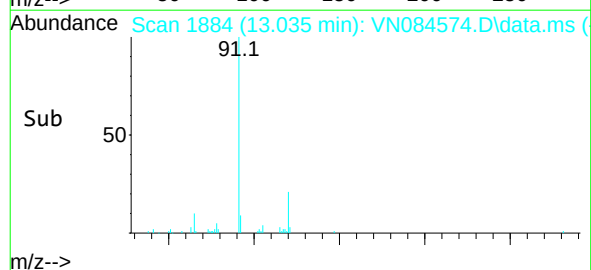
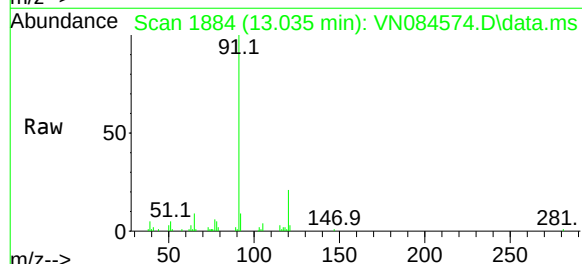
Acq: 30 Oct 2024 13:21

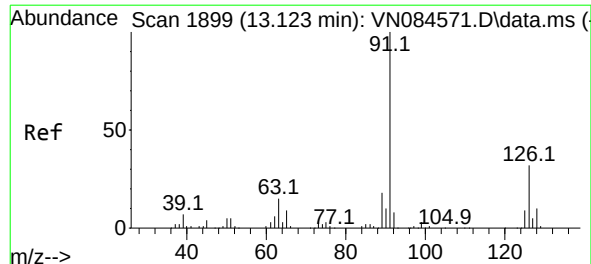
Tgt Ion: 91 Resp: 47776

Ion Ratio Lower Upper

91 100

120 21.9 10.8 32.4





#79

2-Chlorotoluene

Concen: 5.117 ug/l

RT: 13.124 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Tgt Ion: 91 Resp: 32460

Ion Ratio Lower Upper

91 100

126 31.6 15.7 47.1

Instrument :

MSVOA_N

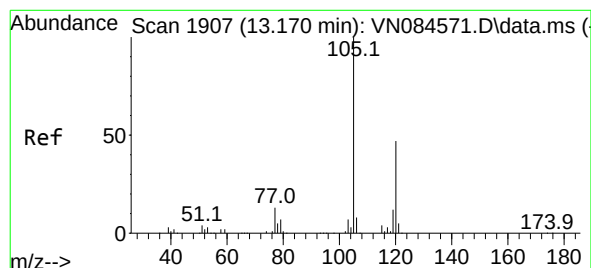
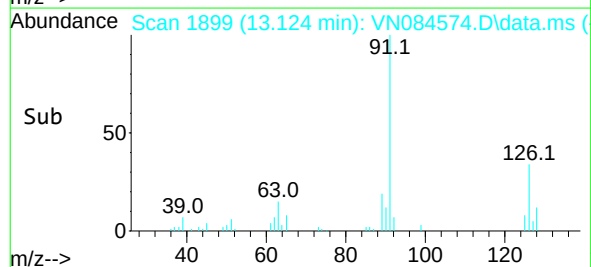
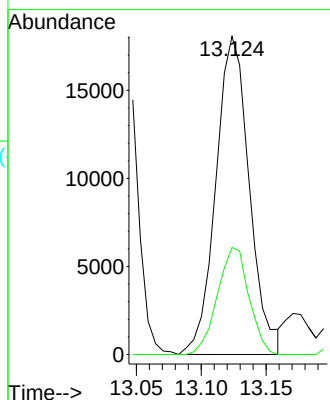
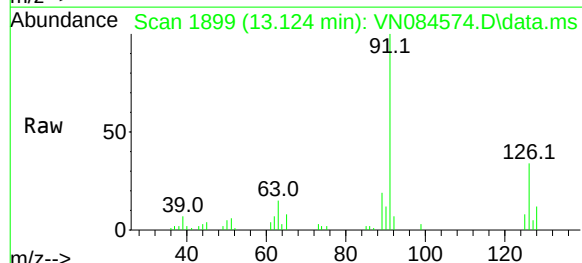
ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#80

1,3,5-Trimethylbenzene

Concen: 4.760 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN084574.D

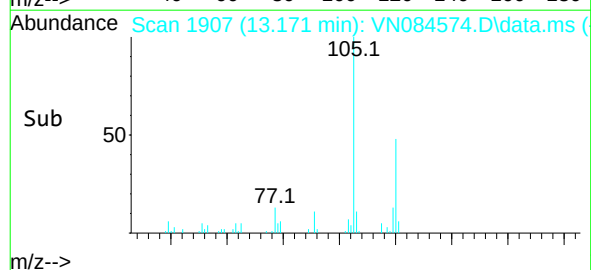
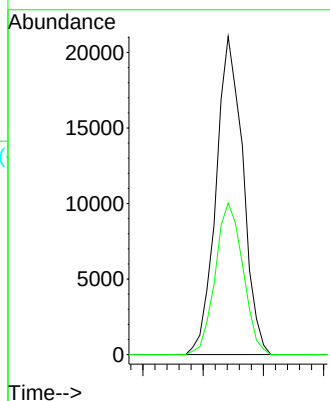
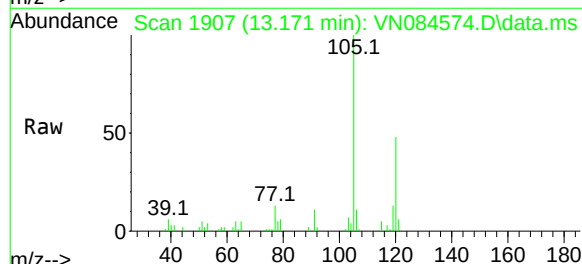
Acq: 30 Oct 2024 13:21

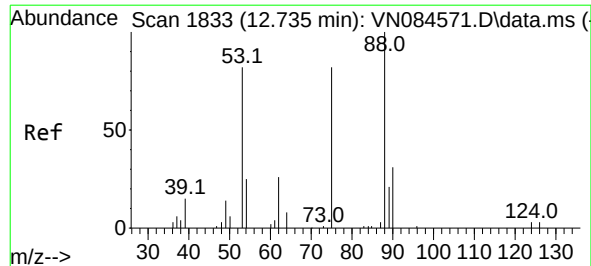
Tgt Ion:105 Resp: 32685

Ion Ratio Lower Upper

105 100

120 48.9 23.7 71.1





#81

trans-1,4-Dichloro-2-butene

Concen: 5.116 ug/l

RT: 12.730 min Scan# 1833

Delta R.T. -0.006 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

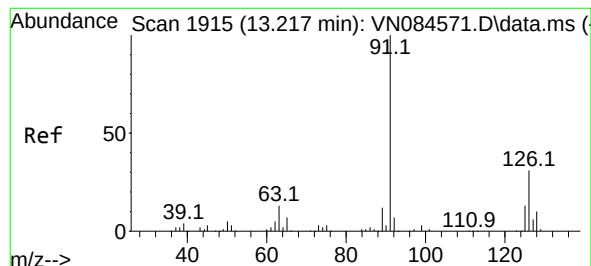
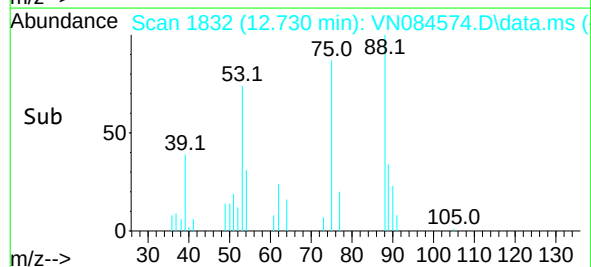
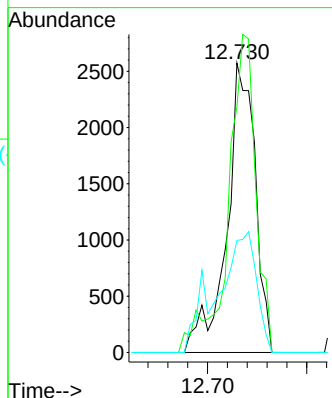
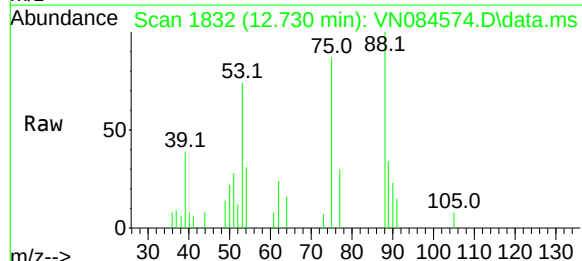
ClientSampleId :

VSTDIC005

Tgt	Ion	75	Resp:	5096
Ion	Ratio	Lower	Upper	
75	100			
53	106.8	78.0	117.0	
89	43.5	35.5	53.3	

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#82

4-Chlorotoluene

Concen: 5.044 ug/l

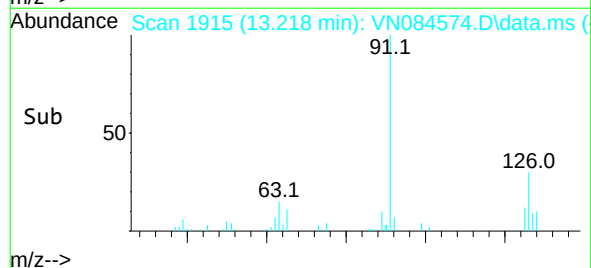
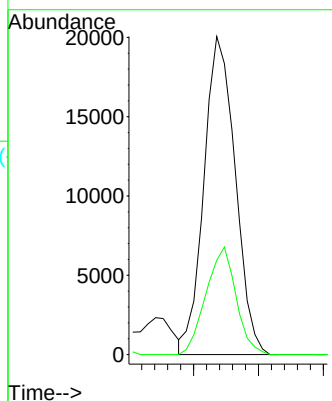
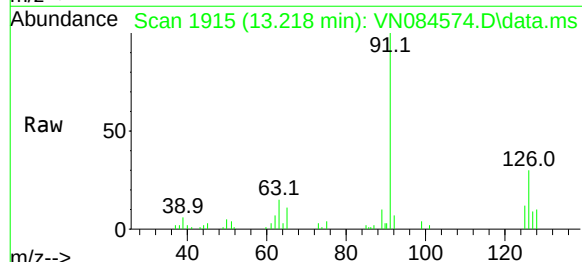
RT: 13.218 min Scan# 1915

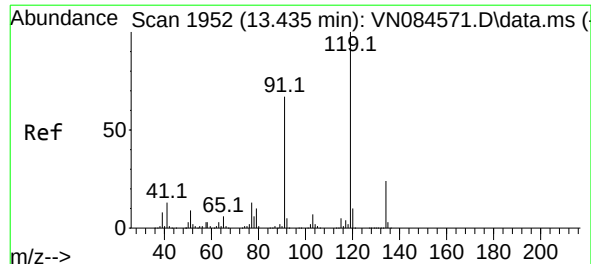
Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Tgt	Ion	91	Resp:	33672
Ion	Ratio	Lower	Upper	
91	100			
126	32.4	15.7	47.1	





#83

tert-Butylbenzene

Concen: 4.724 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

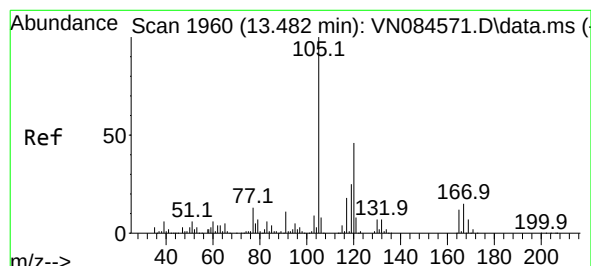
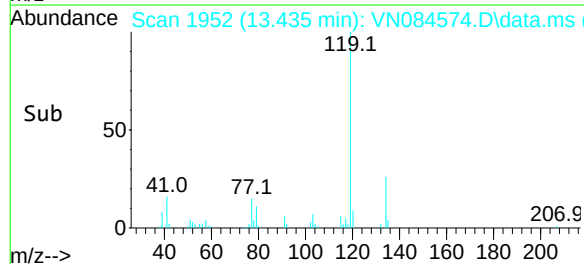
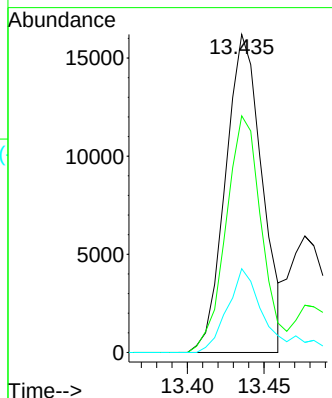
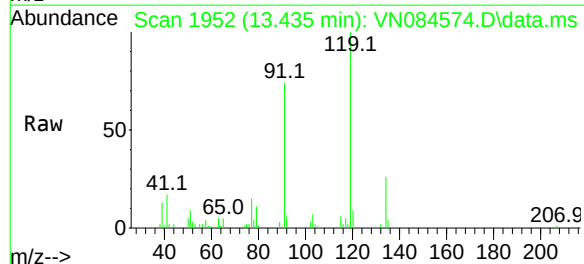
ClientSampleId :

VSTDIC005

Tgt Ion:	119	Resp:	26850
Ion	Ratio	Lower	Upper
119	100		
91	72.6	34.1	102.3
134	27.9	12.8	38.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#84

1,2,4-Trimethylbenzene

Concen: 4.614 ug/l

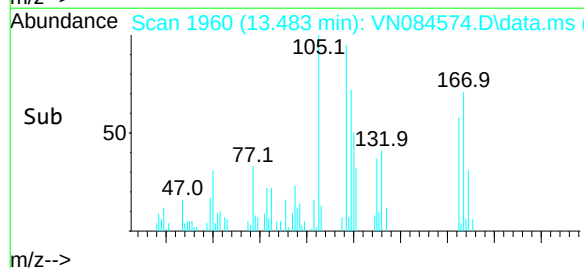
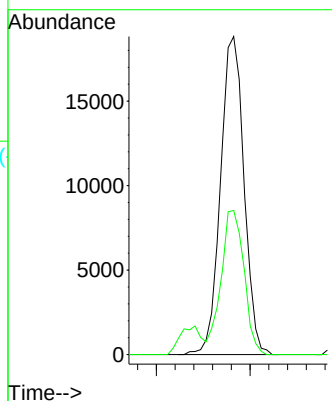
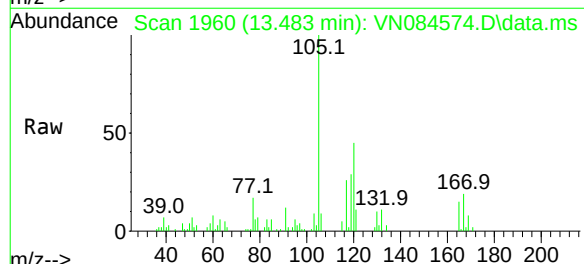
RT: 13.483 min Scan# 1960

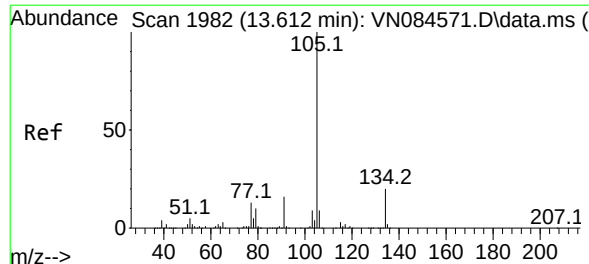
Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Tgt Ion:	105	Resp:	32703
Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.3	66.8





#85

sec-Butylbenzene

Concen: 4.632 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. -0.006 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 37187

Ion Ratio Lower Upper

105 100

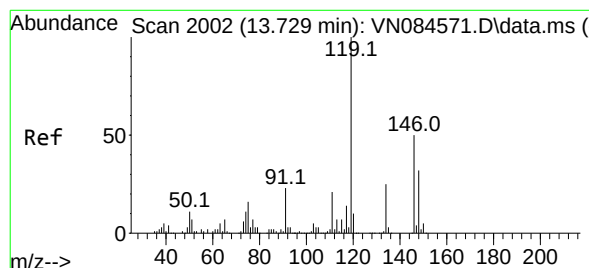
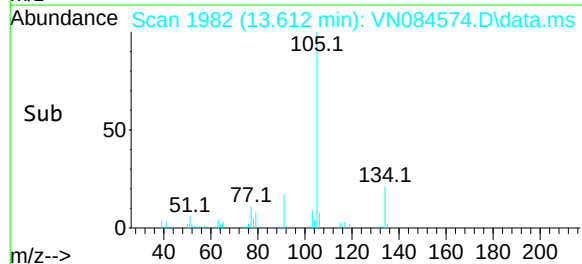
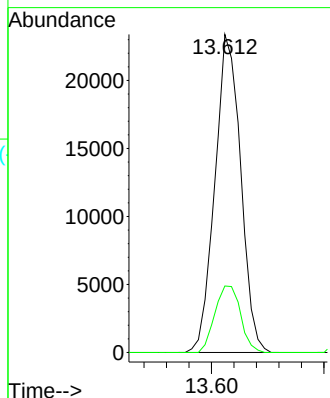
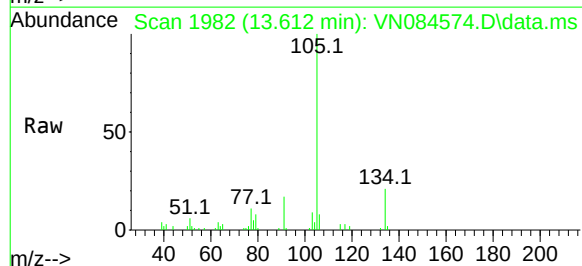
134 20.8 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#86

p-Isopropyltoluene

Concen: 4.521 ug/l

RT: 13.730 min Scan# 2002

Delta R.T. 0.001 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

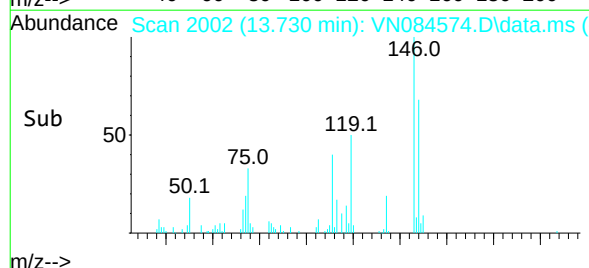
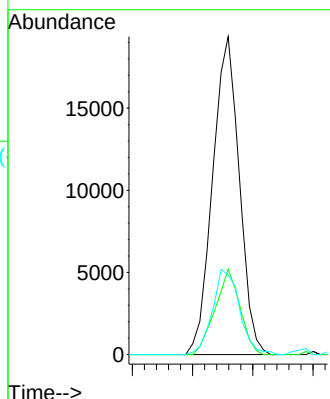
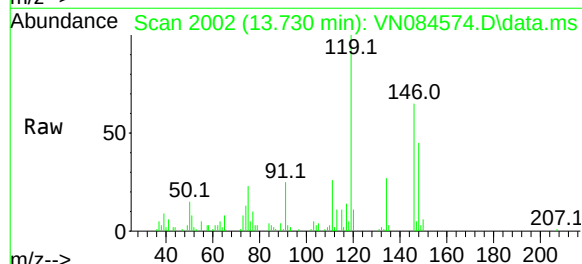
Tgt Ion:119 Resp: 29767

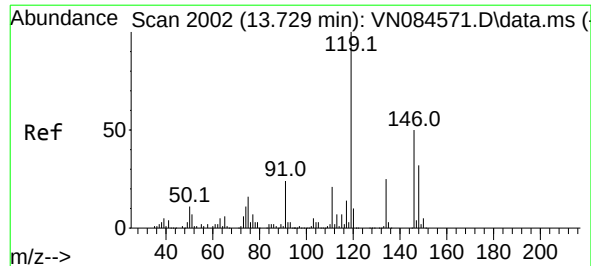
Ion Ratio Lower Upper

119 100

134 25.0 12.6 37.8

91 27.2 12.4 37.2





#87

1,3-Dichlorobenzene

Concen: 5.124 ug/l

RT: 13.730 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

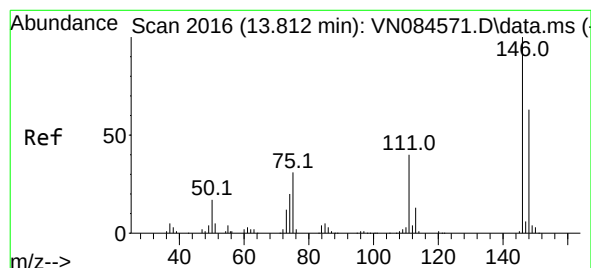
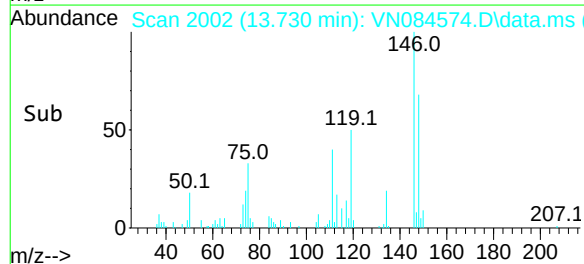
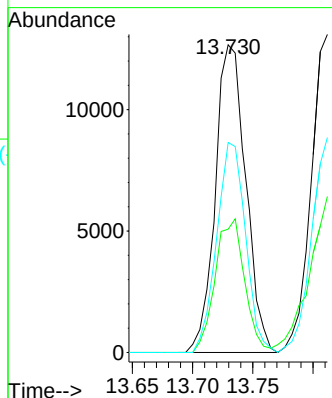
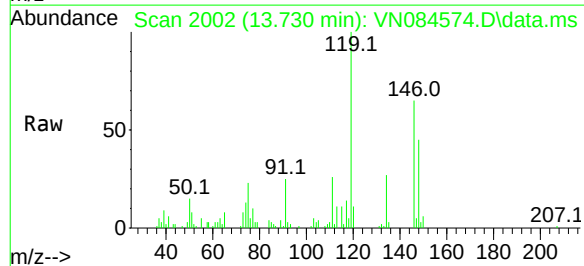
ClientSampleId :

VSTDIC005

Tgt Ion:	146	Resp:	22272
Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.8	65.3
148	64.7	31.9	95.7

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#88

1,4-Dichlorobenzene

Concen: 4.741 ug/l

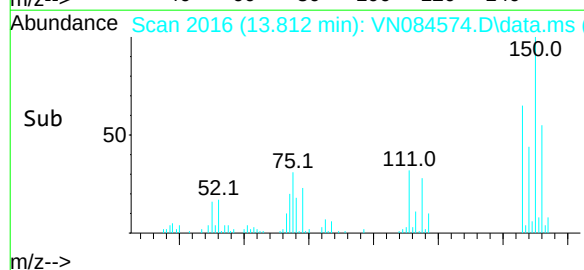
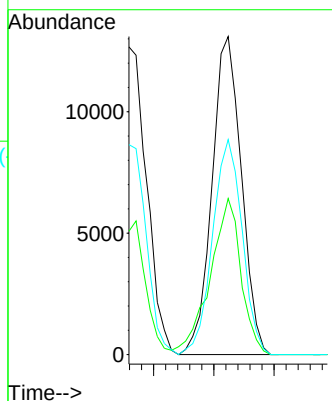
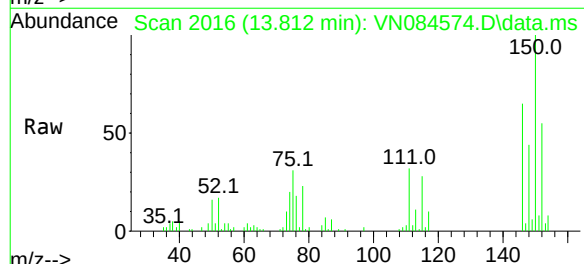
RT: 13.812 min Scan# 2016

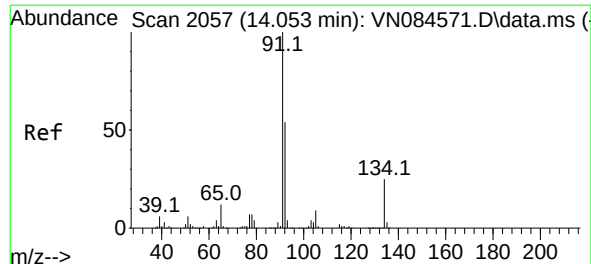
Delta R.T. -0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Tgt Ion:	146	Resp:	22213
Ion	Ratio	Lower	Upper
146	100		
111	51.5	21.2	63.6
148	68.1	31.9	95.9





#89

n-Butylbenzene

Concen: 4.710 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

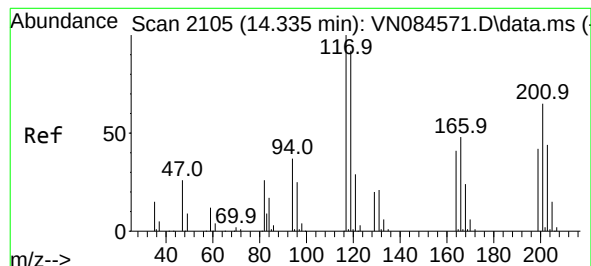
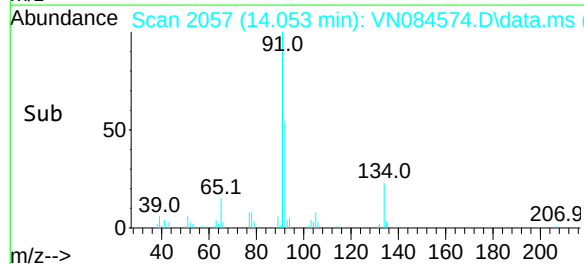
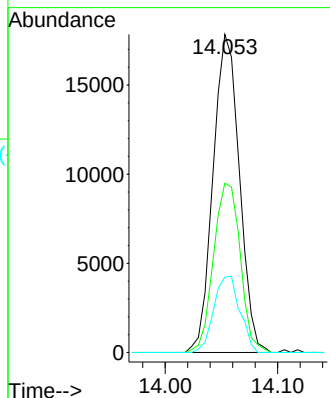
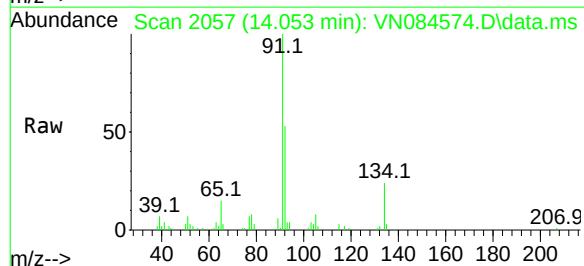
ClientSampleId :

VSTDICC005

Tgt Ion:	91	Resp:	29010
Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.6	79.7
134	23.7	12.3	36.9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#90

Hexachloroethane

Concen: 5.043 ug/l

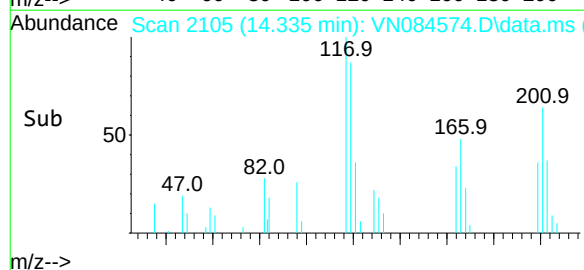
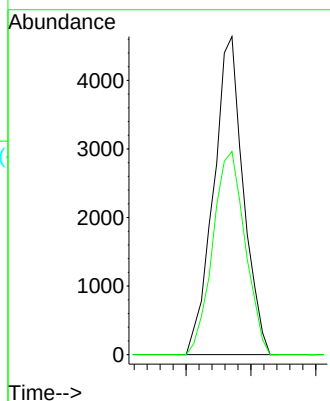
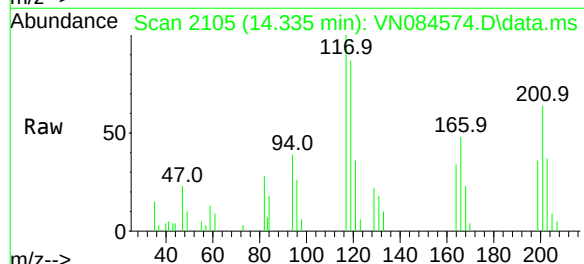
RT: 14.335 min Scan# 2105

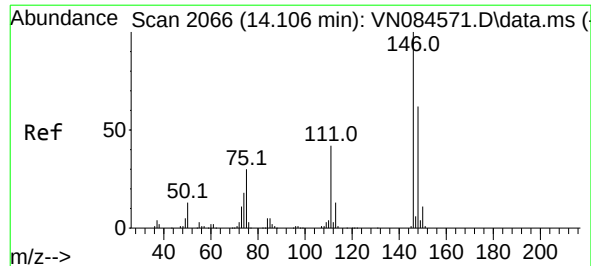
Delta R.T. 0.006 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Tgt Ion:	117	Resp:	7404
Ion	Ratio	Lower	Upper
117	100		
201	69.0	34.4	103.2





#91

1,2-Dichlorobenzene

Concen: 5.320 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

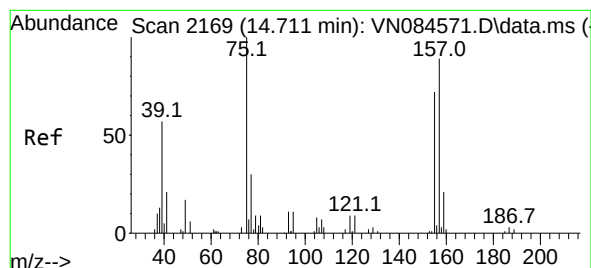
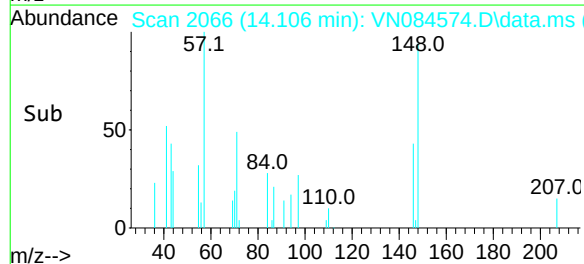
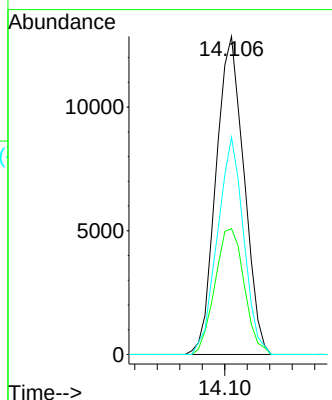
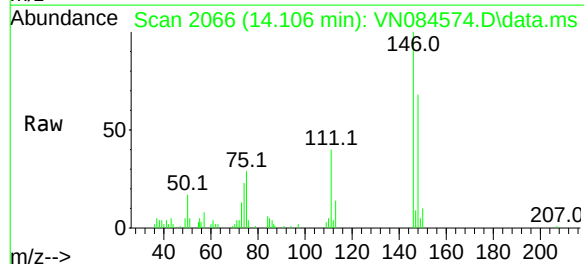
ClientSampleId :

VSTDICC005

Tgt Ion:	146	Resp:	22221
Ion	Ratio	Lower	Upper
146	100		
111	41.3	22.0	66.0
148	64.0	32.1	96.3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 5.781 ug/l

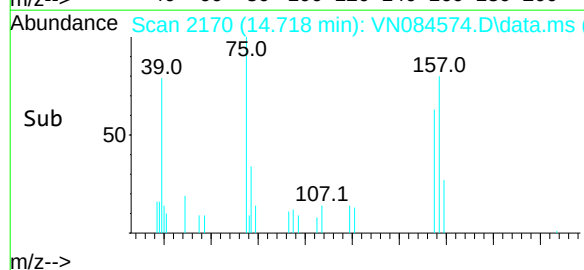
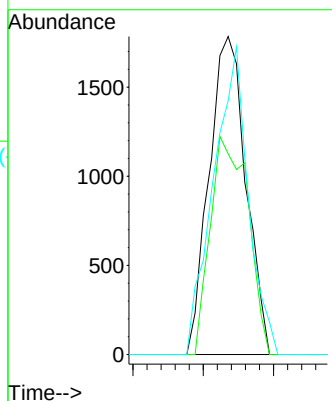
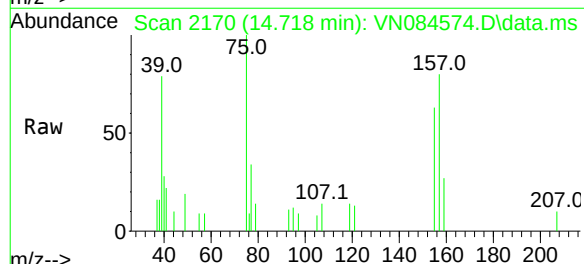
RT: 14.718 min Scan# 2170

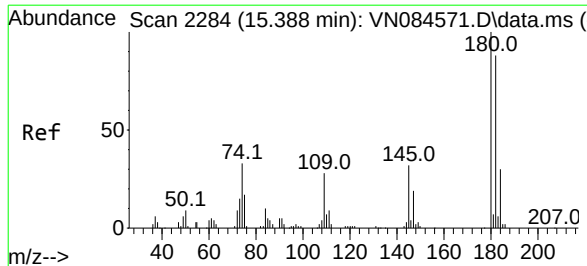
Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Tgt Ion:	75	Resp:	3239
Ion	Ratio	Lower	Upper
75	100		
155	70.5	38.1	114.5
157	91.9	49.6	149.0





#93

1,2,4-Trichlorobenzene

Concen: 4.942 ug/l

RT: 15.394 min Scan# 2284

Delta R.T. 0.006 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:180 Resp: 11298

Ion Ratio Lower Upper

180 100

182 93.7 47.0 141.0

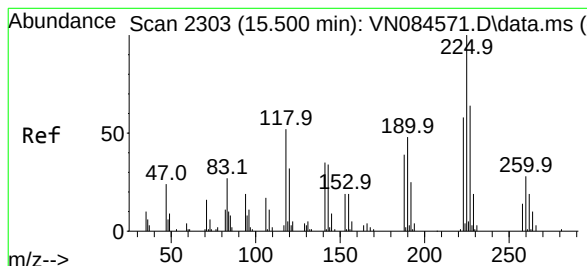
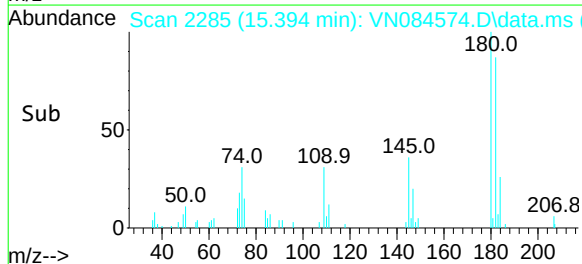
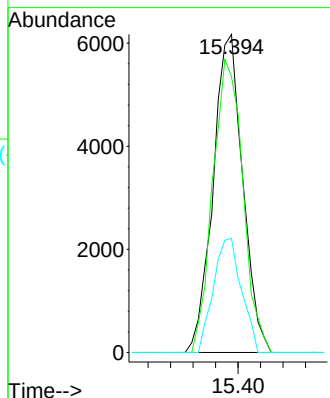
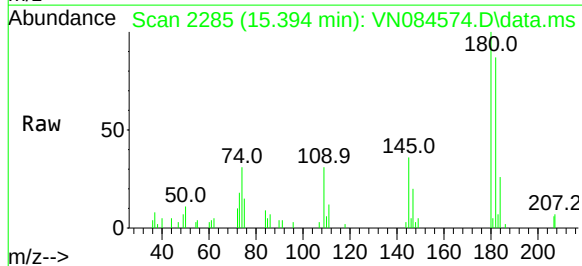
145 33.9 16.4 49.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#94

Hexachlorobutadiene

Concen: 5.163 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

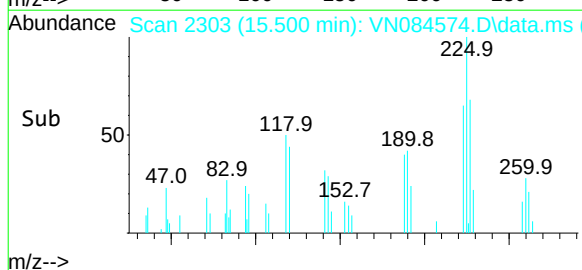
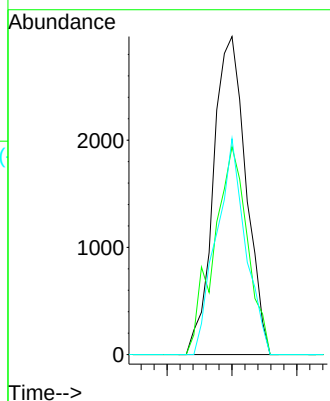
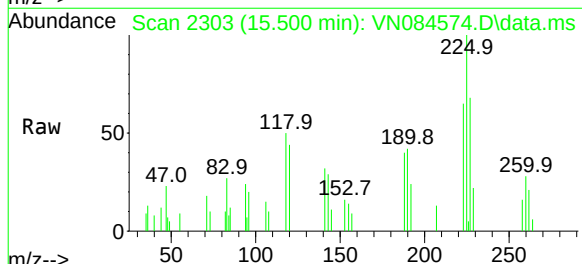
Tgt Ion:225 Resp: 5184

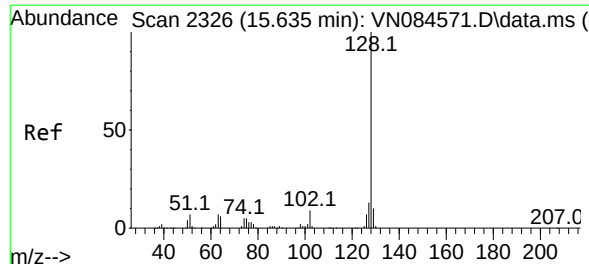
Ion Ratio Lower Upper

225 100

223 67.7 32.4 97.2

227 60.8 32.4 97.0





#95

Naphthalene

Concen: 4.817 ug/l

RT: 15.641 min Scan# 2326

Delta R.T. 0.006 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Instrument :

MSVOA_N

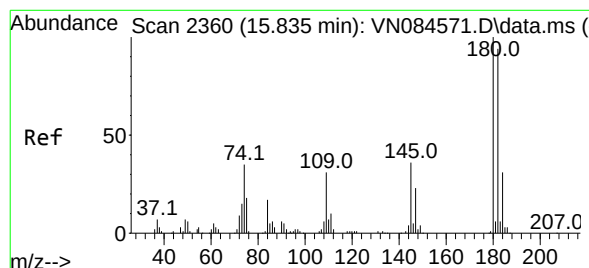
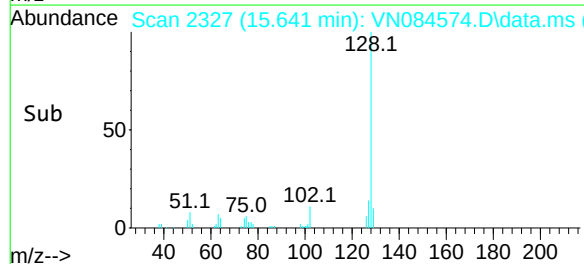
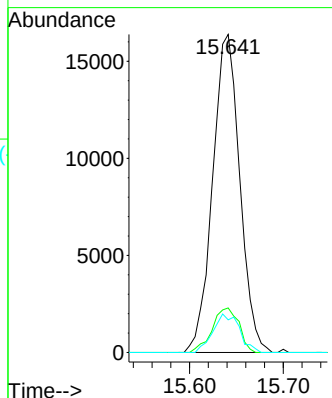
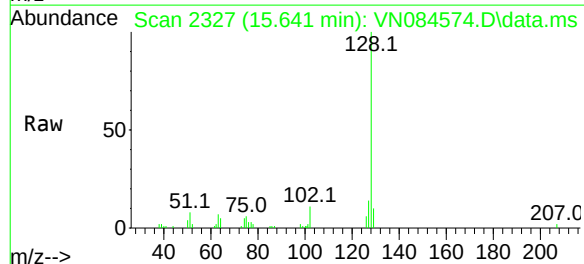
ClientSampleId :

VSTDIC005

Tgt Ion:	128	Resp:	32966
Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.5	15.7
129	11.9	8.7	13.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#96

1,2,3-Trichlorobenzene

Concen: 5.004 ug/l

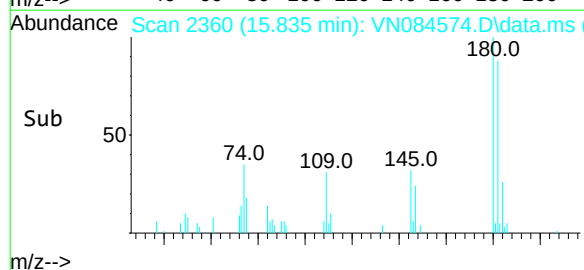
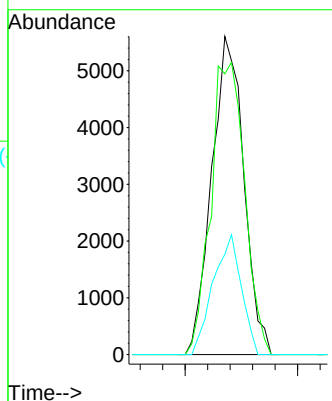
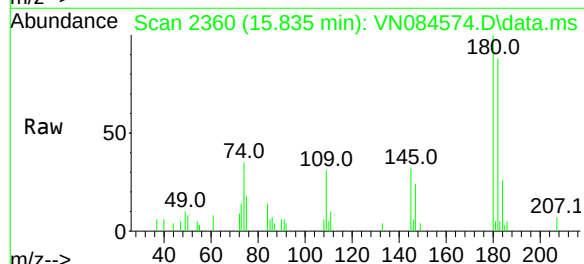
RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN084574.D

Acq: 30 Oct 2024 13:21

Tgt Ion:	180	Resp:	11106
Ion	Ratio	Lower	Upper
180	100		
182	97.1	48.2	144.6
145	33.0	17.3	51.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084575.D
 Acq On : 30 Oct 2024 13:45
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:14:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:13:36 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	168991	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	297772	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	250990	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	109560	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	1964	1.011	ug/l	100
3) Chloromethane	2.365	50	6046	1.880	ug/l #	80
4) Vinyl Chloride	2.512	62	1963	0.939	ug/l	89
6) Chloroethane	3.083	64	2917	0.885	ug/l	98
7) Trichlorofluoromethane	3.471	101	3621	1.052	ug/l #	74
8) Diethyl Ether	3.971	74	1209m	0.996	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.359	101	1982	1.019	ug/l	90
12) 1,1-Dichloroethene	4.336	96	2177	1.131	ug/l #	68
14) Allyl chloride	5.006	41	2869	0.919	ug/l #	29
15) Acrylonitrile	5.730	53	4443	4.764	ug/l #	55
16) Acetone	4.430	43	5707m	5.302	ug/l	
17) Carbon Disulfide	4.700	76	7155	1.207	ug/l #	93
18) Methyl Acetate	5.024	43	7743	1.954	ug/l #	89
19) Methyl tert-butyl Ether	5.806	73	5314	0.901	ug/l	95
20) Methylene Chloride	5.271	84	2029	0.945	ug/l #	81
21) trans-1,2-Dichloroethene	5.789	96	2030	1.027	ug/l #	78
22) Diisopropyl ether	6.665	45	5485	0.884	ug/l #	89
23) Vinyl Acetate	6.600	43	18413	4.306	ug/l	96
24) 1,1-Dichloroethane	6.553	63	3491	0.938	ug/l #	83
25) 2-Butanone	7.494	43	5644	4.956	ug/l #	88
26) 2,2-Dichloropropane	7.488	77	3152	0.973	ug/l #	70
27) cis-1,2-Dichloroethene	7.477	96	2275	0.986	ug/l #	75
28) Bromochloromethane	7.812	49	1450	0.978	ug/l #	97
29) Tetrahydrofuran	7.847	42	3321	4.396	ug/l	96
30) Chloroform	7.965	83	3463	0.914	ug/l	87
32) 1,1,1-Trichloroethane	8.171	97	3312	0.960	ug/l #	34
36) 1,1-Dichloropropene	8.365	75	2825	1.011	ug/l	97
37) Ethyl Acetate	7.559	43	2440	0.962	ug/l #	88
38) Carbon Tetrachloride	8.353	117	2904	0.929	ug/l #	73
39) Methylcyclohexane	9.600	83	2212	0.778	ug/l	89
40) Benzene	8.600	78	9169	1.021	ug/l	94
41) Methacrylonitrile	7.777	41	1095	0.803	ug/l #	84
42) 1,2-Dichloroethane	8.665	62	2733	0.940	ug/l	81
43) Isopropyl Acetate	8.688	43	7724	0.697	ug/l #	78
44) Trichloroethene	9.353	130	2306	1.114	ug/l	74
45) 1,2-Dichloropropane	9.624	63	1967	0.934	ug/l #	86

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084575.D
 Acq On : 30 Oct 2024 13:45
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:14:28 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M

Quant Title : SW846 8260

QLast Update : Thu Oct 31 18:13:36 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.712	93	1472	0.991	ug/l	93
47) Bromodichloromethane	9.882	83	3156	1.008	ug/l #	96
48) Methyl methacrylate	9.682	41	1652	0.837	ug/l #	84
49) 1,4-Dioxane	9.700	88	576	16.468	ug/l #	73
51) 4-Methyl-2-Pentanone	10.441	43	10237	4.234	ug/l	92
52) Toluene	10.629	92	4507	0.858	ug/l	89
53) t-1,3-Dichloropropene	10.835	75	3308	1.020	ug/l	93
54) cis-1,3-Dichloropropene	10.312	75	3266	0.952	ug/l #	94
55) 1,1,2-Trichloroethane	11.012	97	1841	0.931	ug/l #	86
56) Ethyl methacrylate	10.876	69	2211	0.773	ug/l	94
57) 1,3-Dichloropropane	11.165	76	3139	0.925	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	4979	3.720	ug/l #	87
59) 2-Hexanone	11.194	43	7617	4.328	ug/l	89
60) Dibromochloromethane	11.353	129	1857	0.824	ug/l	88
61) 1,2-Dibromoethane	11.465	107	2001	0.988	ug/l	89
64) Tetrachloroethene	11.100	164	1629	0.976	ug/l #	69
65) Chlorobenzene	11.894	112	5753	1.025	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	2002	1.025	ug/l #	61
67) Ethyl Benzene	11.965	91	8520	0.909	ug/l	98
68) m/p-Xylenes	12.070	106	6568	1.851	ug/l	96
69) o-Xylene	12.400	106	2759	0.831	ug/l	99
70) Styrene	12.406	104	5269	0.910	ug/l	95
71) Bromoform	12.582	173	1434	0.976	ug/l #	95
73) Isopropylbenzene	12.694	105	6985	0.910	ug/l	99
74) N-amyl acetate	12.488	43	2680	0.820	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.929	83	2678	1.045	ug/l #	91
76) 1,2,3-Trichloropropane	12.994	75	2731m	1.263	ug/l	
77) Bromobenzene	12.982	156	2440	1.182	ug/l	95
78) n-propylbenzene	13.035	91	7935	0.882	ug/l	95
79) 2-Chlorotoluene	13.123	91	5699	0.969	ug/l	96
80) 1,3,5-Trimethylbenzene	13.170	105	5298	0.833	ug/l	98
82) 4-Chlorotoluene	13.223	91	6682	1.080	ug/l	96
83) tert-Butylbenzene	13.435	119	4148	0.788	ug/l	89
84) 1,2,4-Trimethylbenzene	13.482	105	5651	0.860	ug/l	98
85) sec-Butylbenzene	13.617	105	6490	0.872	ug/l	93
86) p-Isopropyltoluene	13.729	119	4859	0.796	ug/l	94
87) 1,3-Dichlorobenzene	13.729	146	4961	1.232	ug/l	95
88) 1,4-Dichlorobenzene	13.817	146	6076m	0.801	ug/l	
89) n-Butylbenzene	14.059	91	6020	1.055	ug/l	95
90) Hexachloroethane	14.329	117	1493	1.097	ug/l	95
91) 1,2-Dichlorobenzene	14.106	146	4428	1.144	ug/l	91
92) 1,2-Dibromo-3-Chloropr...	14.717	75	595	1.146	ug/l	83
93) 1,2,4-Trichlorobenzene	15.394	180	2964	1.399	ug/l	98
94) Hexachlorobutadiene	15.506	225	1208	1.298	ug/l	88
95) Naphthalene	15.635	128	7352	1.159	ug/l	96
96) 1,2,3-Trichlorobenzene	15.835	180	2605	1.267	ug/l	91

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

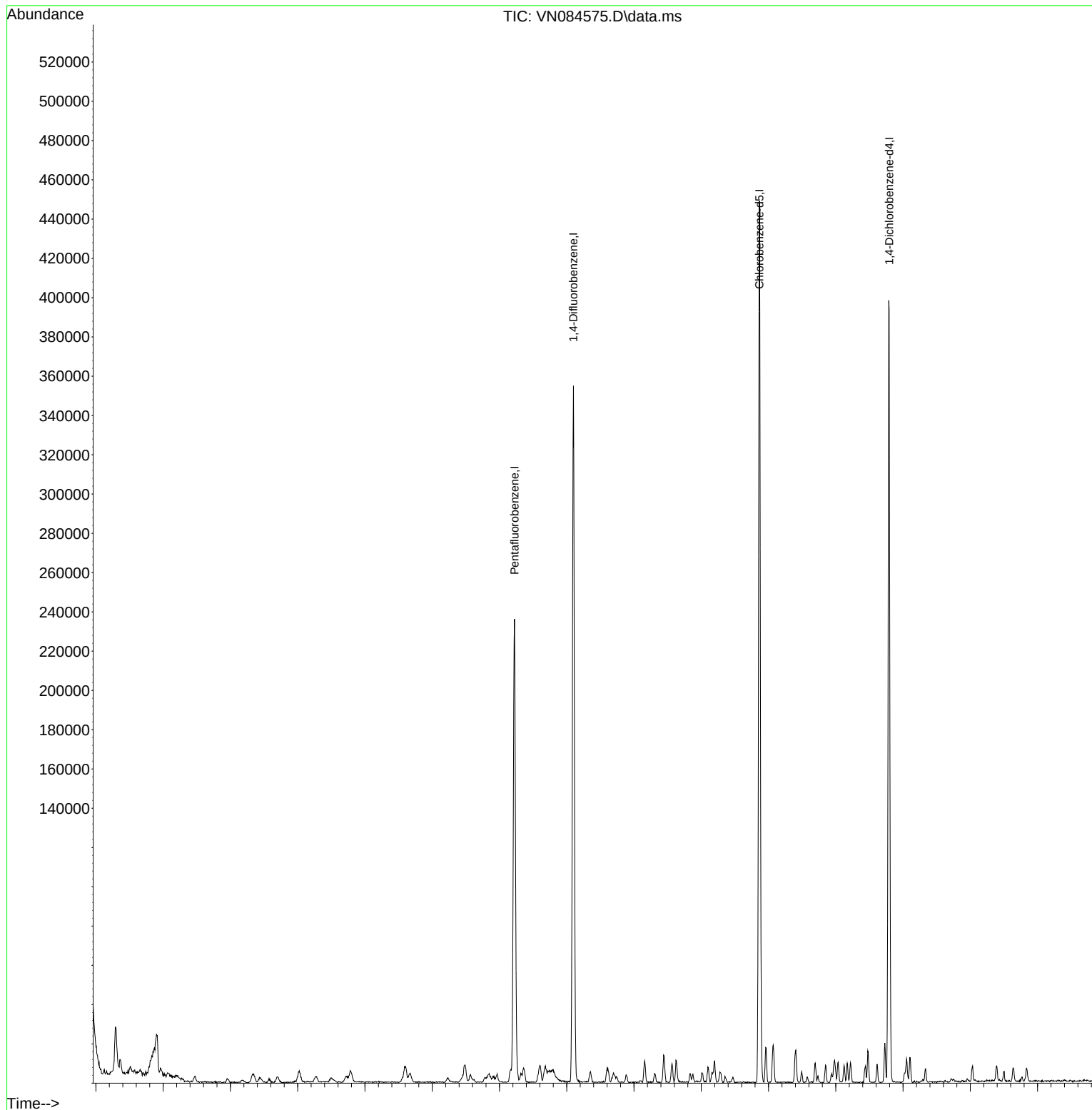
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Data File : VN084575.D
Acq On : 30 Oct 2024 13:45
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

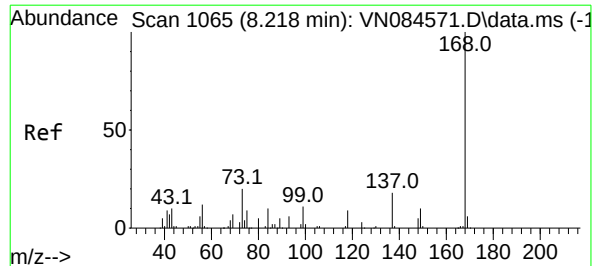
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
Supervised By : Mahesh Dadoda 11/04/2024

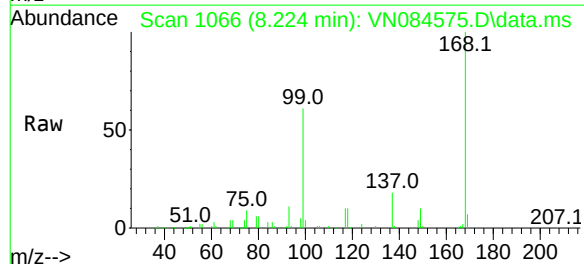
Quant Time: Oct 31 18:14:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:13:36 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084575.D
Acq: 30 Oct 2024 13:45

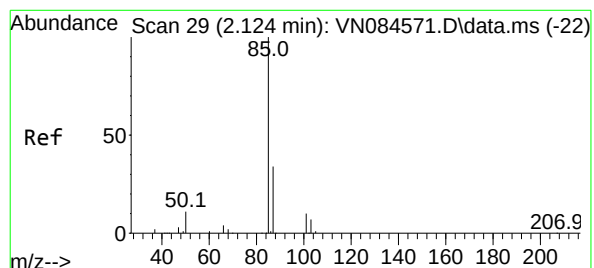
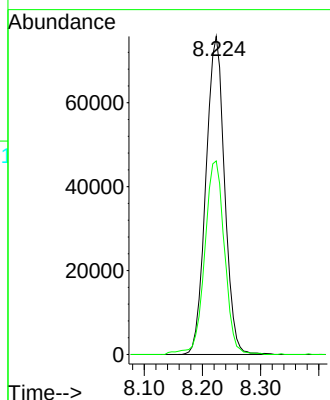
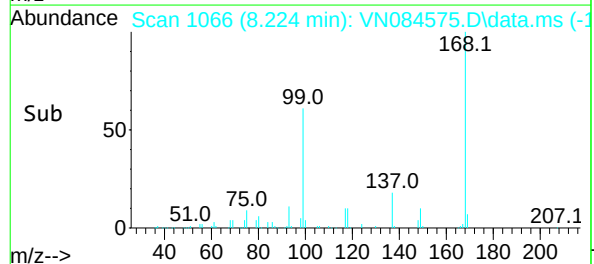
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 168 Resp: 168991
Ion Ratio Lower Upper
168 100
99 60.9 54.2 81.2

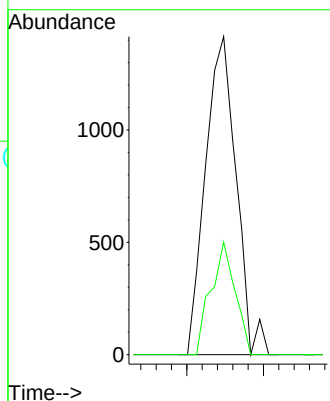
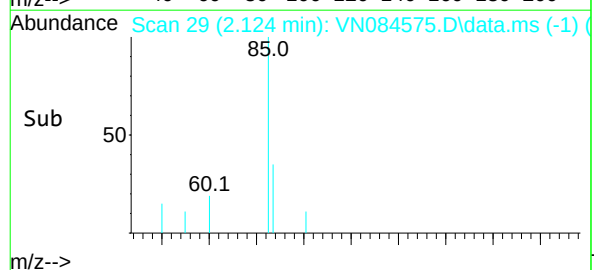
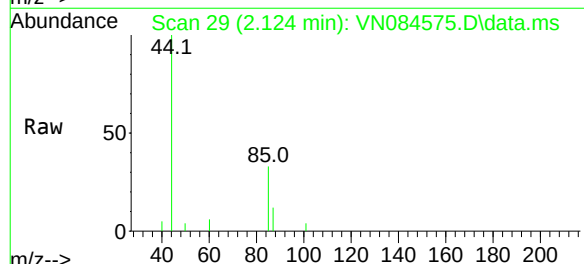
Manual Integrations
APPROVED

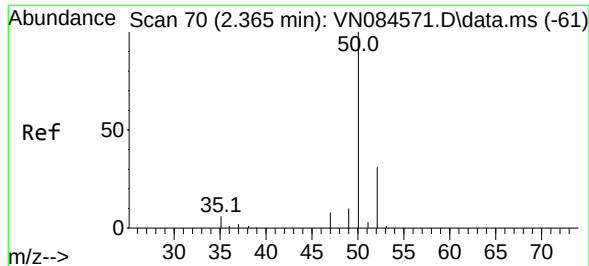
Reviewed By : Semsettin Yesilyurt 11/04/2024
Supervised By : Mahesh Dadoda 11/04/2024



#2
Dichlorodifluoromethane
Concen: 1.011 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN084575.D
Acq: 30 Oct 2024 13:45

Tgt Ion: 85 Resp: 1964
Ion Ratio Lower Upper
85 100
87 35.4 17.6 52.9





#3

Chloromethane

Concen: 1.880 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 50 Resp: 6046

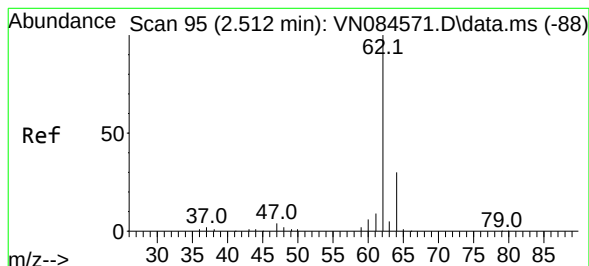
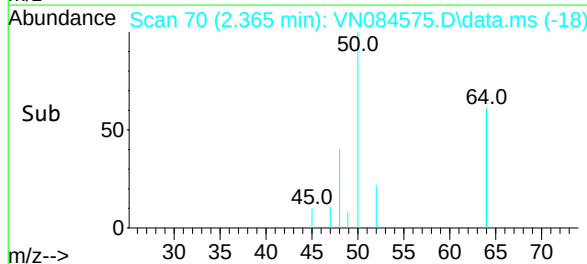
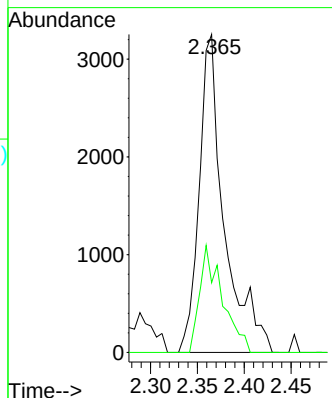
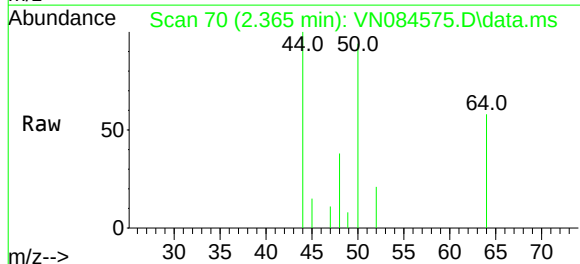
Ion Ratio Lower Upper

50 100

52 21.9 26.8 40.2#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#4

Vinyl Chloride

Concen: 0.939 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.006 min

Lab File: VN084575.D

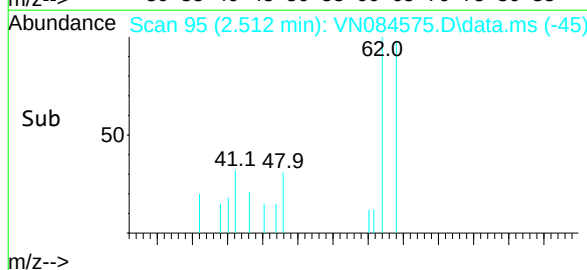
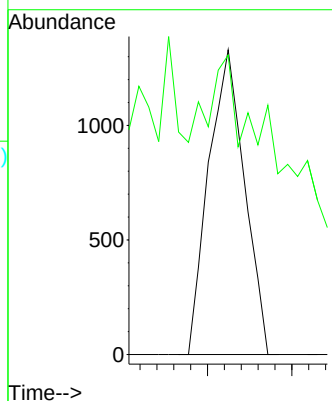
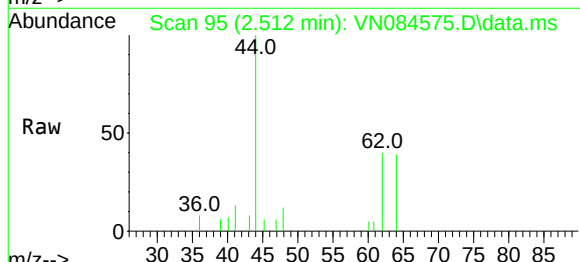
Acq: 30 Oct 2024 13:45

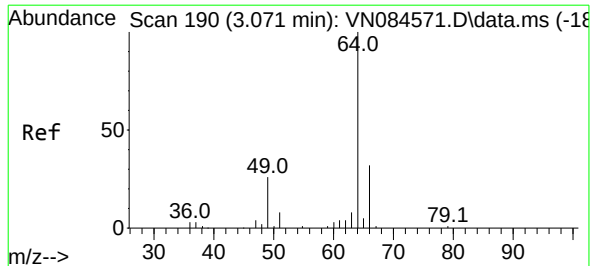
Tgt Ion: 62 Resp: 1963

Ion Ratio Lower Upper

62 100

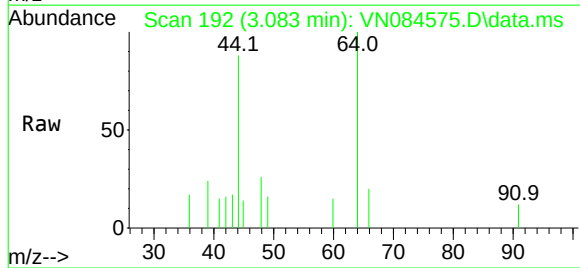
64 38.9 26.2 39.4





#6
Chloroethane
Concen: 0.885 ug/l
RT: 3.083 min Scan# 19
Delta R.T. -0.035 min
Lab File: VN084575.D
Acq: 30 Oct 2024 13:45

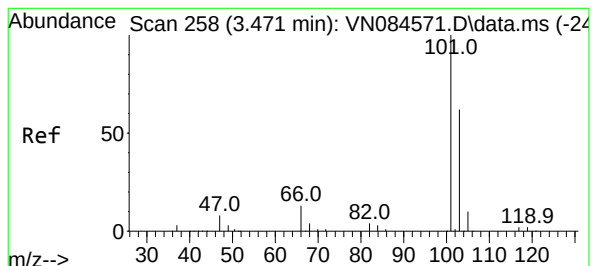
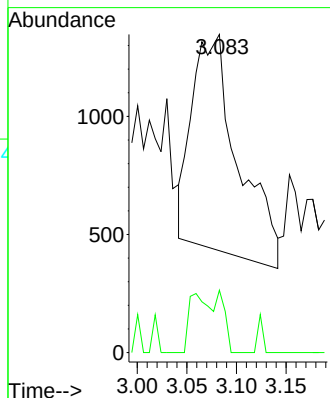
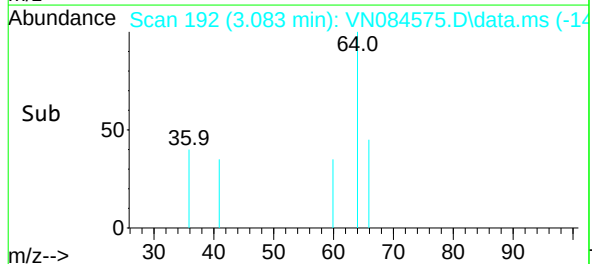
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 64 Resp: 2917
Ion Ratio Lower Upper
64 100
66 30.6 23.5 35.3

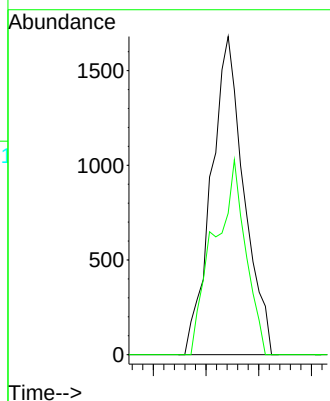
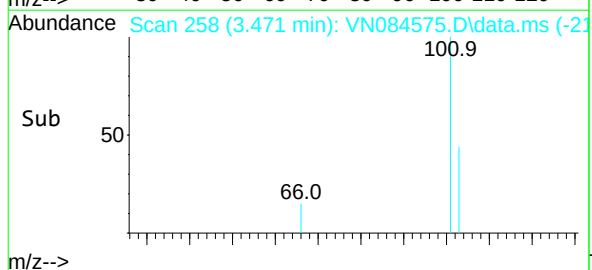
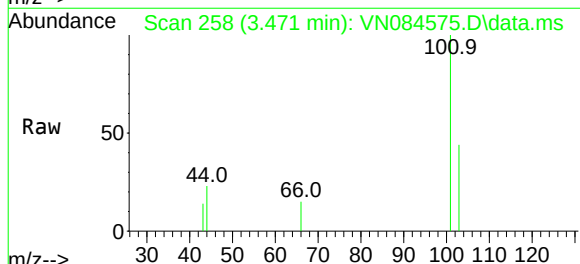
Manual Integrations
APPROVED

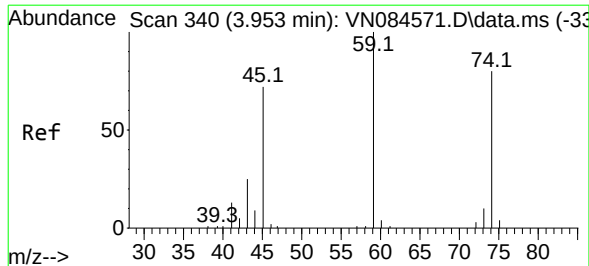
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#7
Trichlorofluoromethane
Concen: 1.052 ug/l
RT: 3.471 min Scan# 258
Delta R.T. -0.024 min
Lab File: VN084575.D
Acq: 30 Oct 2024 13:45

Tgt Ion:101 Resp: 3621
Ion Ratio Lower Upper
101 100
103 44.5 51.8 77.6#





#8

Diethyl Ether

Concen: 0.996 ug/l m

RT: 3.971 min Scan# 340

Delta R.T. 0.012 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Tgt Ion: 74 Resp: 1209

Ion Ratio Lower Upper

74 100

45 92.5 47.7 143.1

Instrument :

MSVOA_N

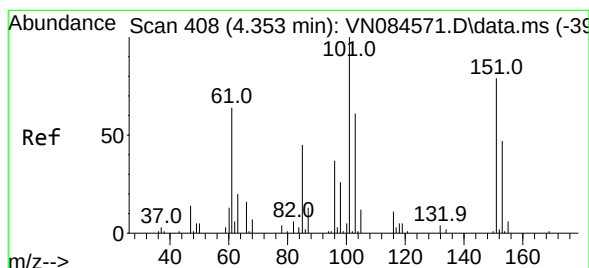
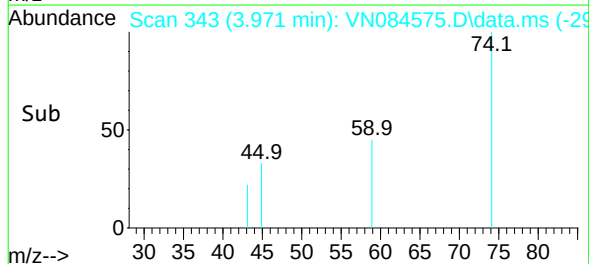
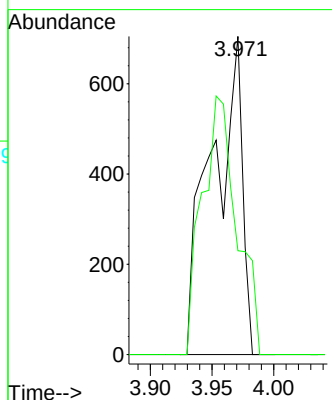
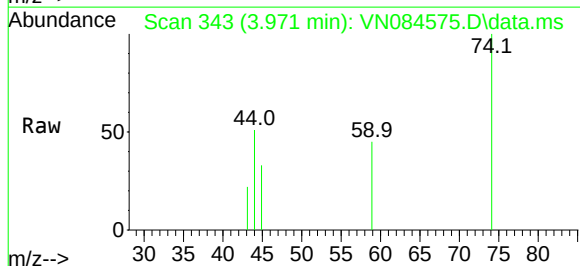
ClientSampleId :

VSTDIC001

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.019 ug/l

RT: 4.359 min Scan# 409

Delta R.T. -0.012 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

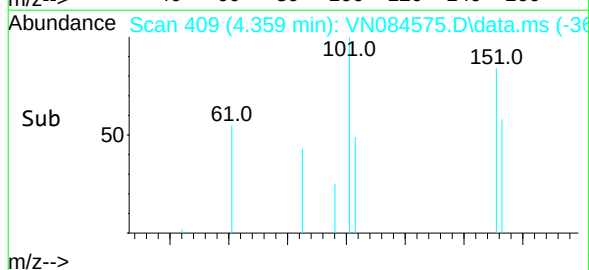
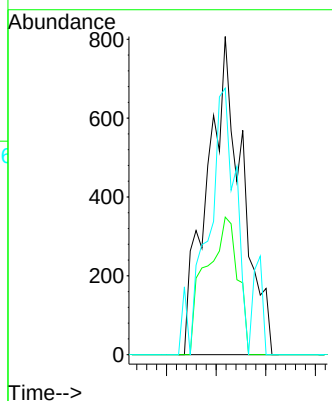
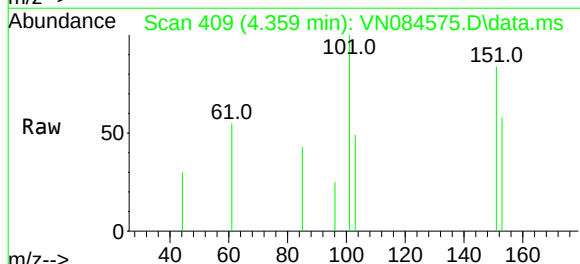
Tgt Ion:101 Resp: 1982

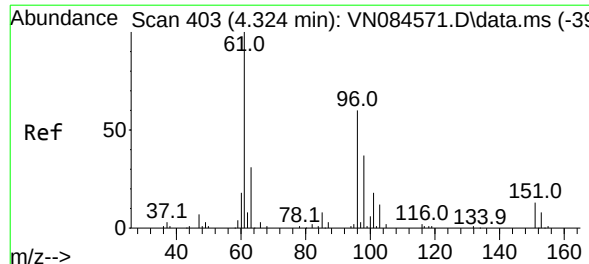
Ion Ratio Lower Upper

101 100

85 39.1 36.2 54.4

151 65.9 59.3 88.9





#12

1,1-Dichloroethene

Concen: 1.131 ug/l

RT: 4.336 min Scan# 403

Delta R.T. -0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

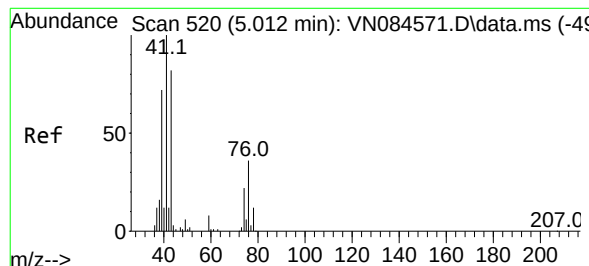
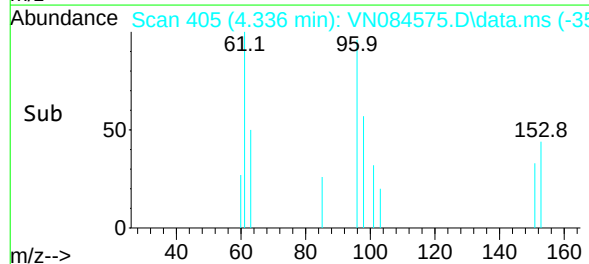
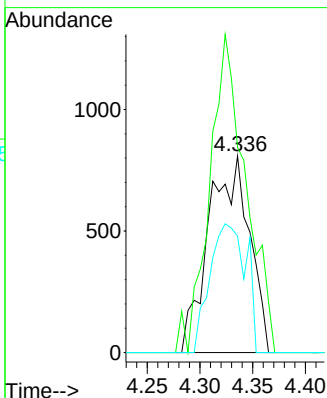
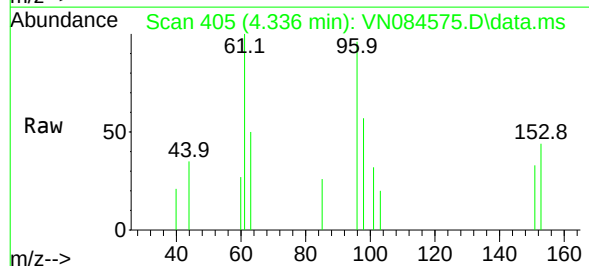
VSTDICC001

Tgt	Ion: 96	Resp: 2177
Ion	Ratio	Lower Upper
96	100	
61	104.3	128.6 192.8#
98	59.2	51.7 77.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#14

Allyl chloride

Concen: 0.919 ug/l

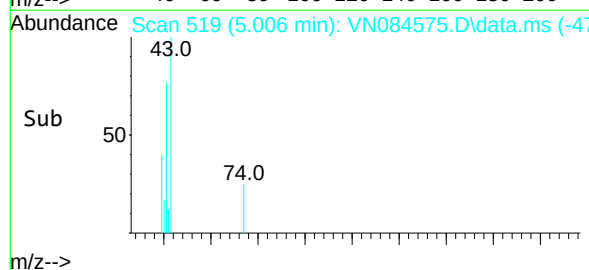
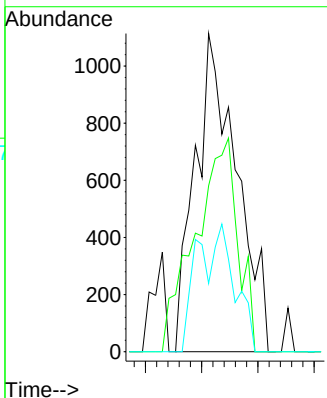
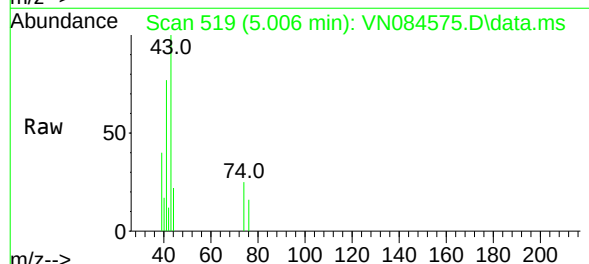
RT: 5.006 min Scan# 519

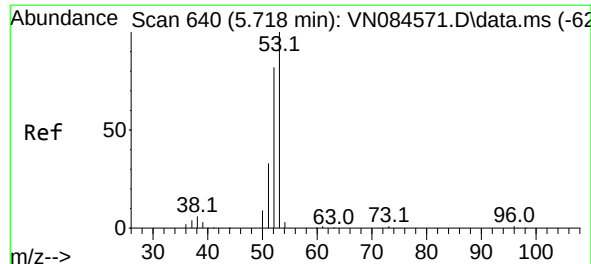
Delta R.T. -0.018 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Tgt	Ion: 41	Resp: 2869
Ion	Ratio	Lower Upper
41	100	
39	0.0	59.0 88.6#
76	14.8	29.8 44.6#





#15

Acrylonitrile

Concen: 4.764 ug/l

RT: 5.730 min Scan# 640

Delta R.T. 0.012 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

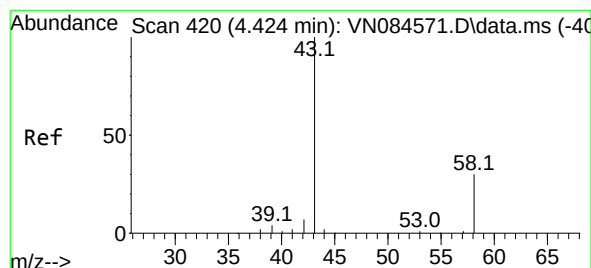
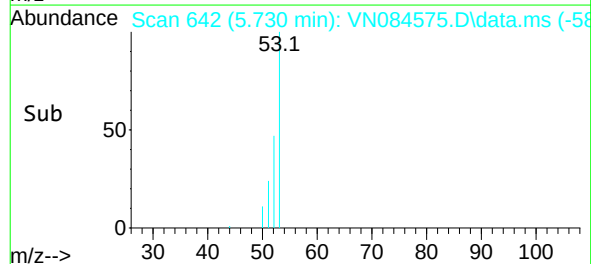
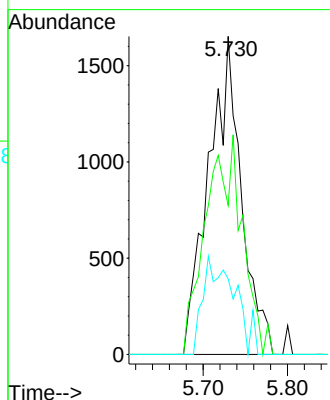
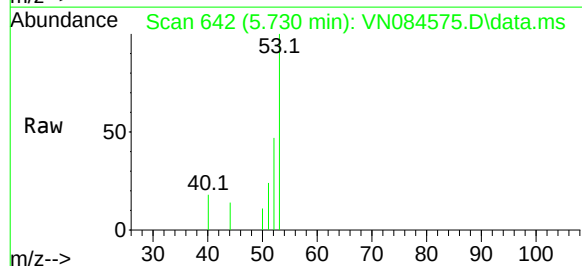
ClientSampleId :

VSTDICC001

Tgt Ion: 53	Resp: 4443
Ion Ratio	Lower Upper
53 100	
52 48.3	66.2 99.4
51 0.0	28.8 43.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#16

Acetone

Concen: 5.302 ug/l m

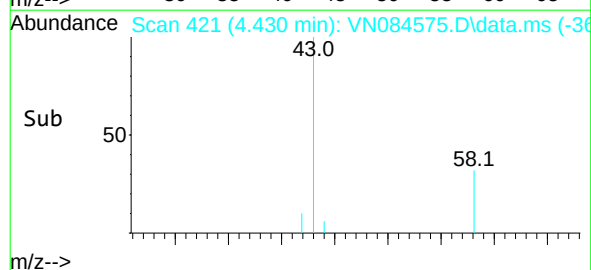
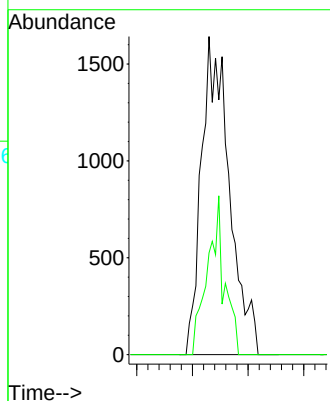
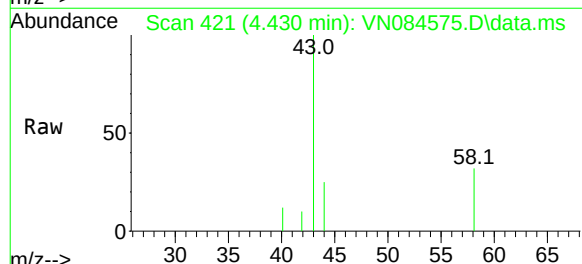
RT: 4.430 min Scan# 421

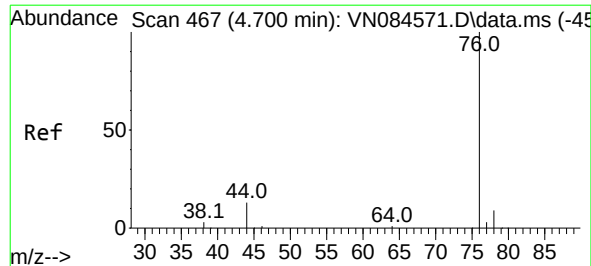
Delta R.T. 0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Tgt Ion: 43	Resp: 5707
Ion Ratio	Lower Upper
43 100	
58 32.0	24.4 36.6





#17

Carbon Disulfide

Concen: 1.207 ug/l

RT: 4.700 min Scan# 467

Delta R.T. -0.012 min

Lab File: VN084575.D

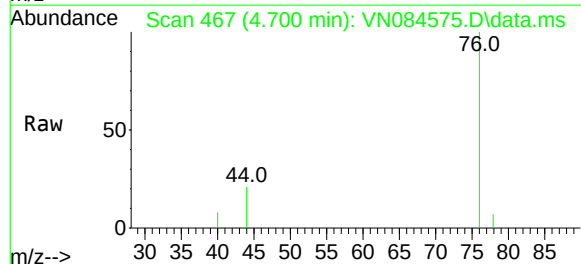
Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001



Tgt Ion: 76 Resp: 7155

Ion Ratio Lower Upper

76 100

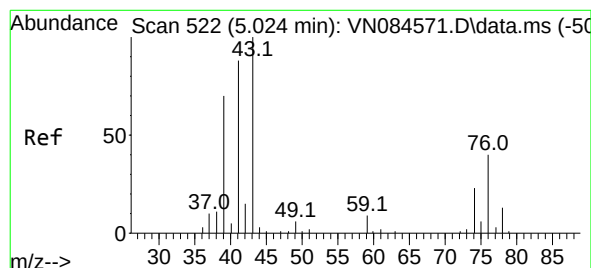
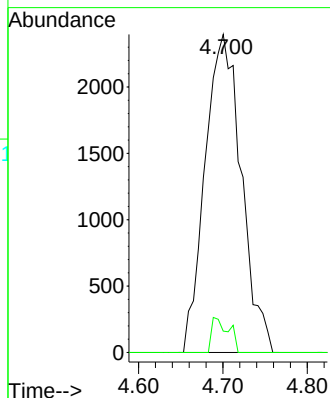
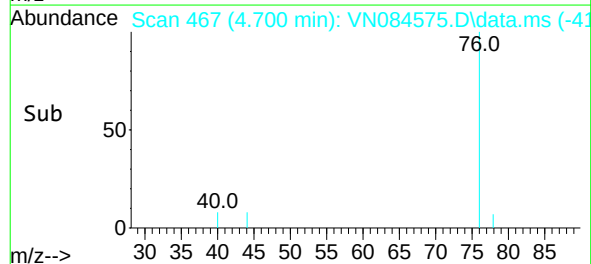
78 6.7 7.3 10.9#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#18

Methyl Acetate

Concen: 1.954 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN084575.D

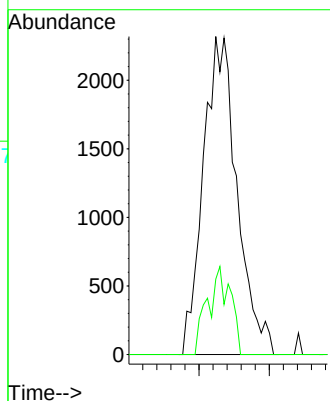
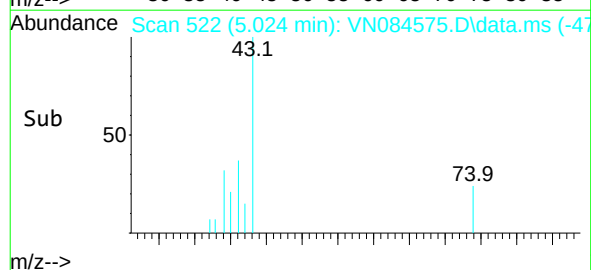
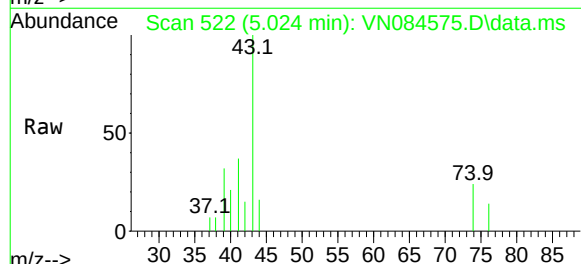
Acq: 30 Oct 2024 13:45

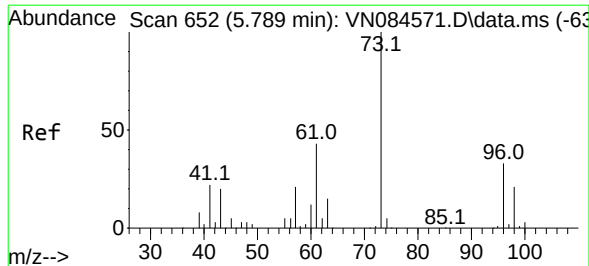
Tgt Ion: 43 Resp: 7743

Ion Ratio Lower Upper

43 100

74 18.6 19.2 28.8#





#19

Methyl tert-butyl Ether

Concen: 0.901 ug/l

RT: 5.806 min Scan# 65

Delta R.T. 0.012 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 73 Resp: 5314

Ion Ratio Lower Upper

73 100

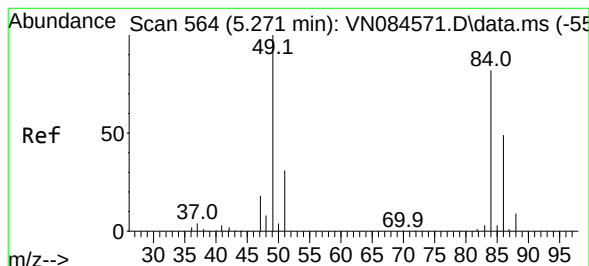
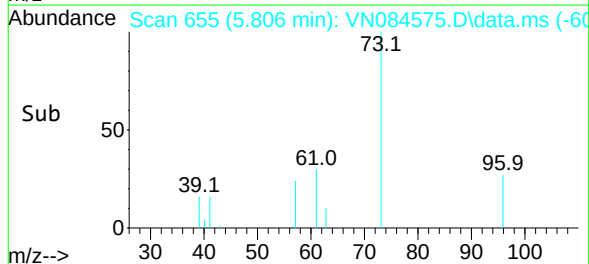
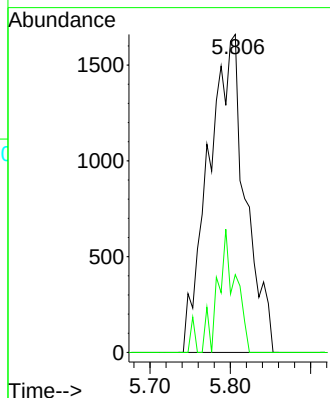
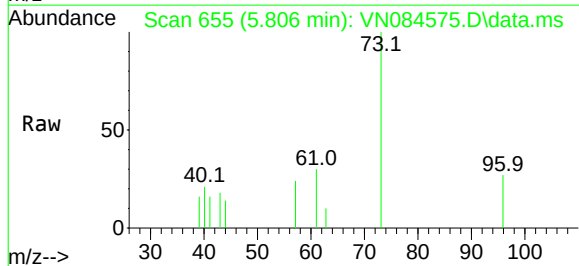
57 24.5 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#20

Methylene Chloride

Concen: 0.945 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Tgt Ion: 84 Resp: 2029

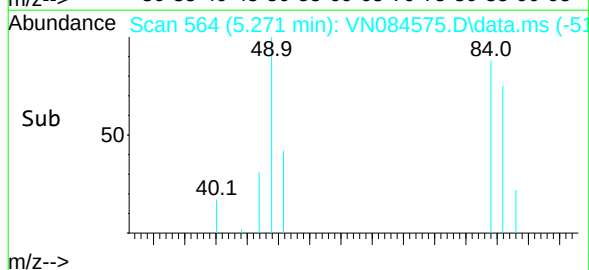
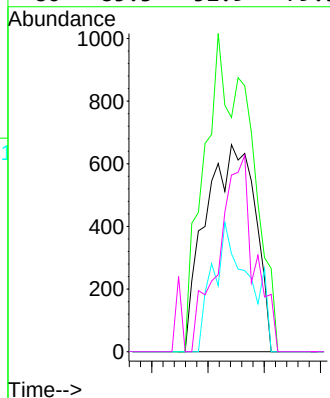
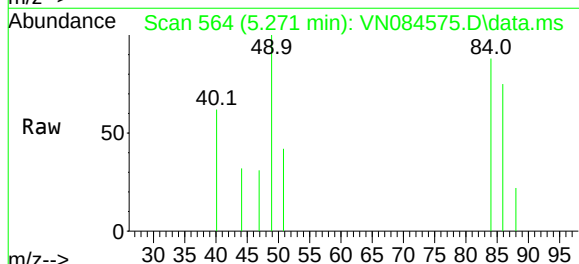
Ion Ratio Lower Upper

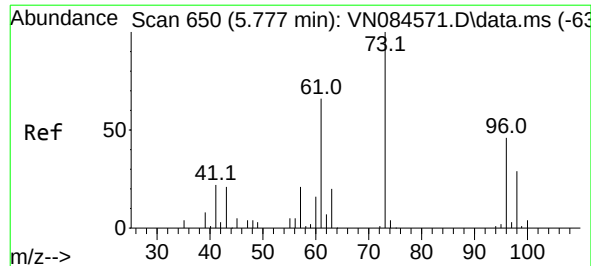
84 100

49 113.2 107.2 160.8

51 47.4 31.8 47.8

86 85.3 52.9 79.3#





#21

trans-1,2-Dichloroethene

Concen: 1.027 ug/l

RT: 5.789 min Scan# 65

Delta R.T. -0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 96 Resp: 2030

Ion Ratio Lower Upper

96 100

61 151.8 108.4 162.6

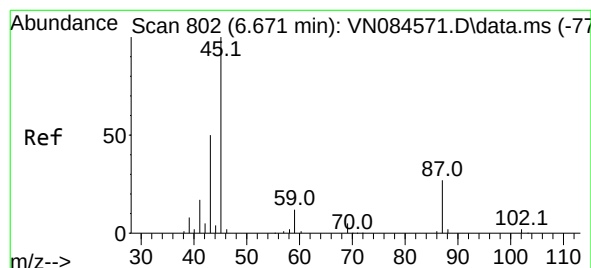
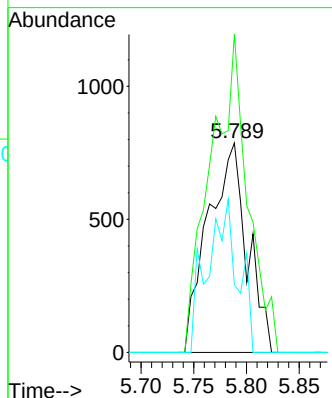
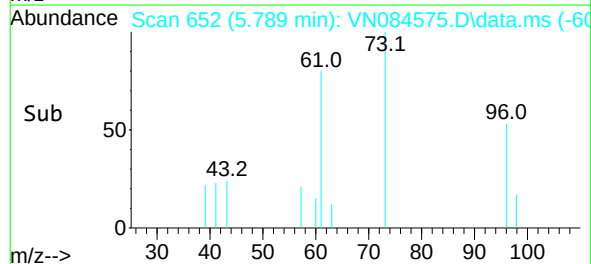
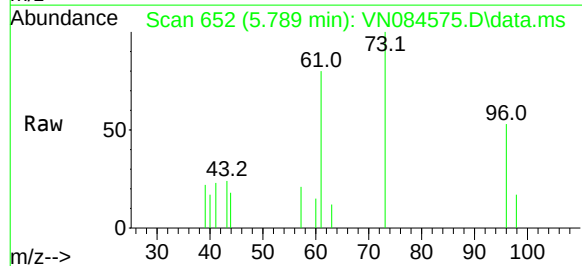
98 32.3 49.8 74.8#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#22

Diisopropyl ether

Concen: 0.884 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Tgt Ion: 45 Resp: 5485

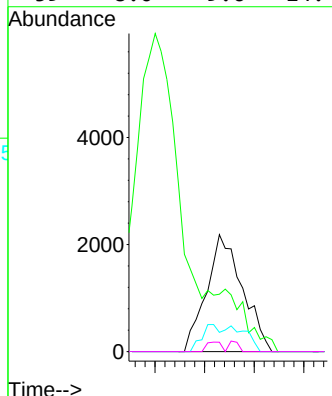
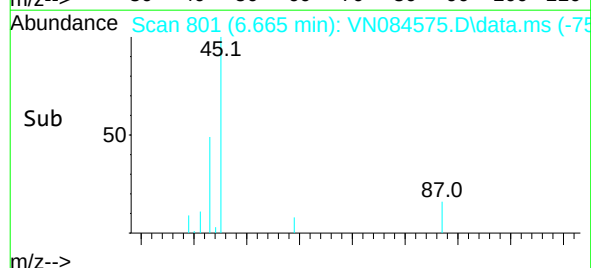
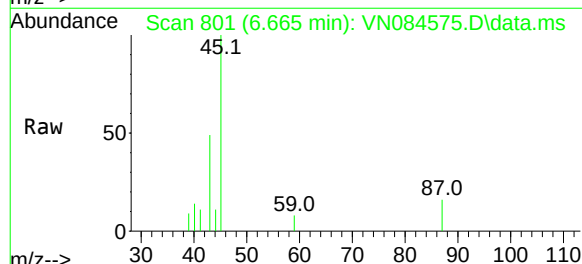
Ion Ratio Lower Upper

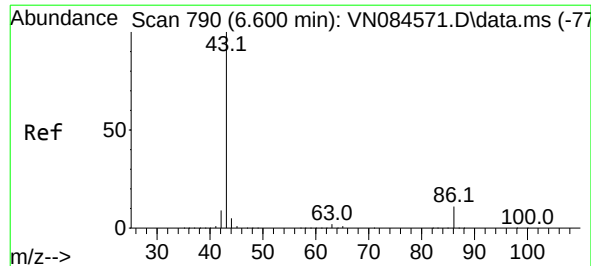
45 100

43 49.1 42.3 63.5

87 16.4 21.8 32.6#

59 8.0 9.6 14.4#





#23

Vinyl Acetate

Concen: 4.306 ug/l

RT: 6.600 min Scan# 790

Delta R.T. -0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 18413

Ion Ratio Lower Upper

43 100

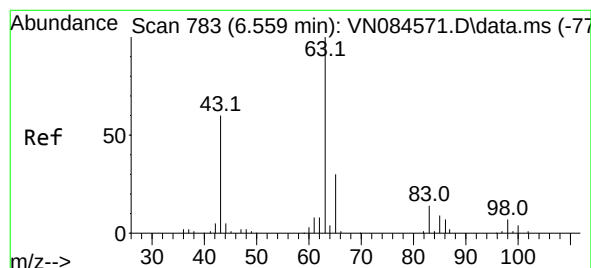
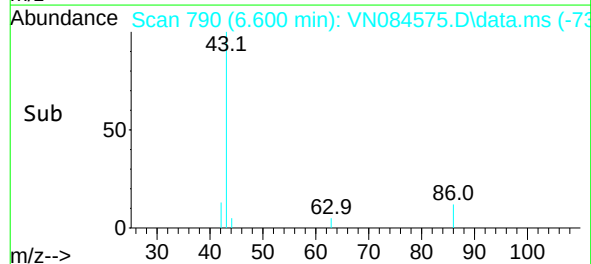
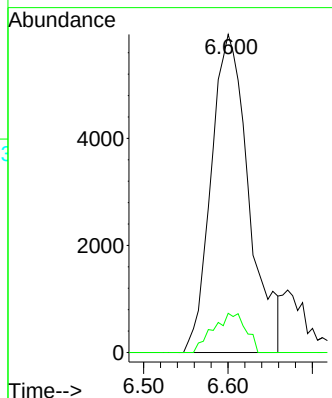
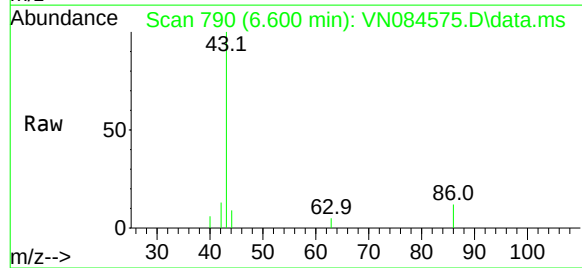
86 12.3 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#24

1,1-Dichloroethane

Concen: 0.938 ug/l

RT: 6.553 min Scan# 782

Delta R.T. -0.018 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

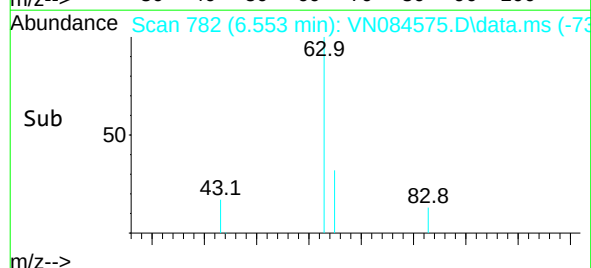
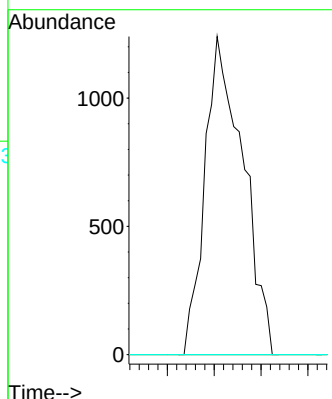
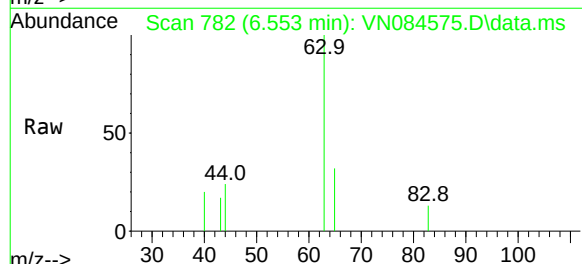
Tgt Ion: 63 Resp: 3491

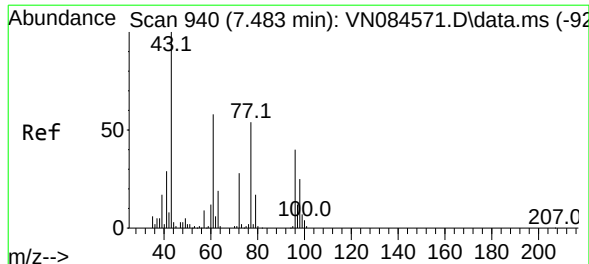
Ion Ratio Lower Upper

63 100

98 0.0 3.4 10.2#

100 0.0 2.0 5.8#





#25

2-Butanone

Concen: 4.956 ug/l

RT: 7.494 min Scan# 940

Delta R.T. 0.012 min

Lab File: VN084575.D

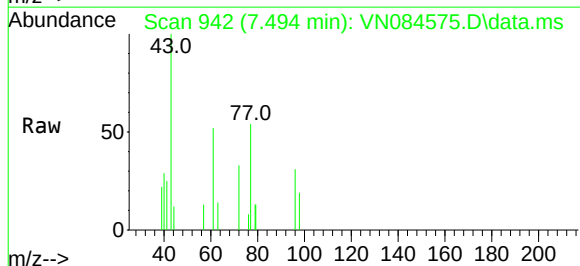
Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001



Tgt Ion: 43 Resp: 5644

Ion Ratio Lower Upper

43 100

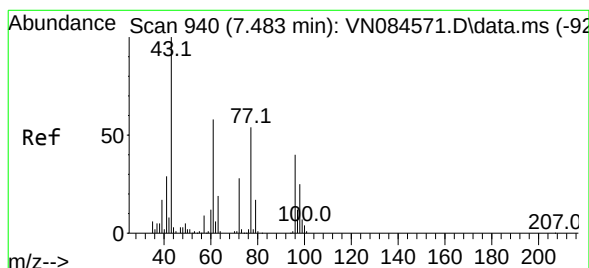
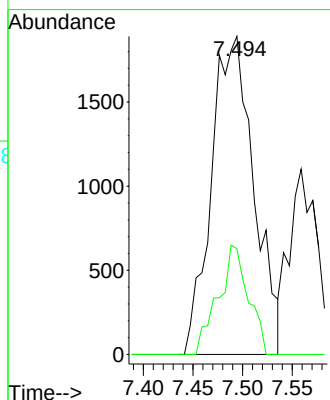
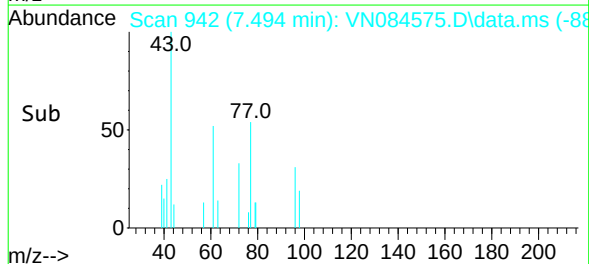
72 33.2 21.4 32.2#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#26

2,2-Dichloropropane

Concen: 0.973 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.000 min

Lab File: VN084575.D

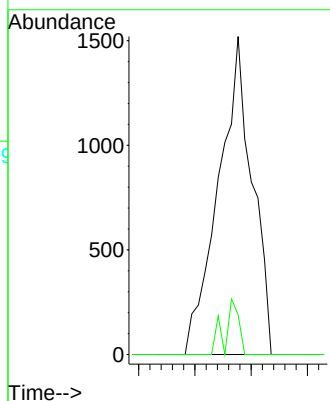
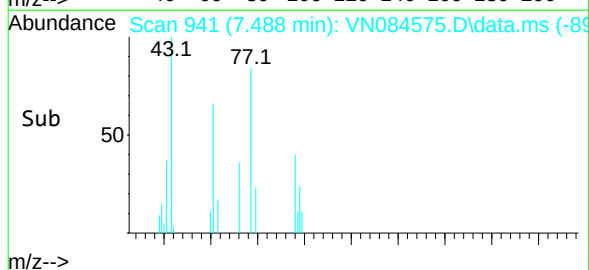
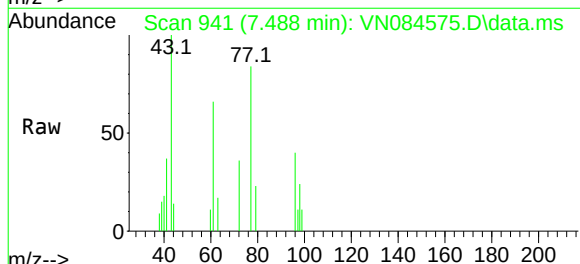
Acq: 30 Oct 2024 13:45

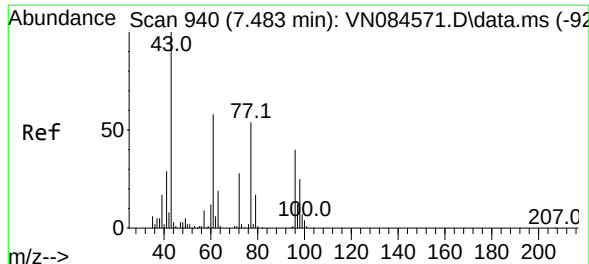
Tgt Ion: 77 Resp: 3152

Ion Ratio Lower Upper

77 100

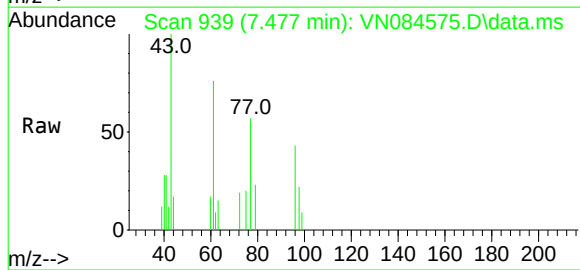
97 7.2 10.8 32.3#





#27
cis-1,2-Dichloroethene
Concen: 0.986 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.012 min
Lab File: VN084575.D
Acq: 30 Oct 2024 13:45

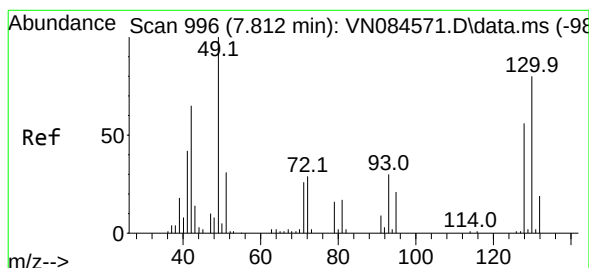
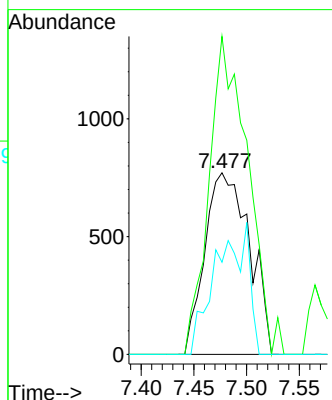
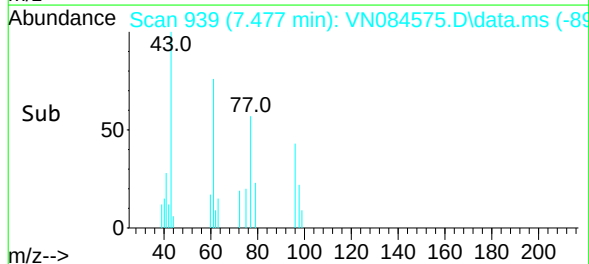
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 96 Resp: 2275
Ion Ratio Lower Upper
96 100
61 152.0 0.0 301.8
98 0.0 0.0 128.2

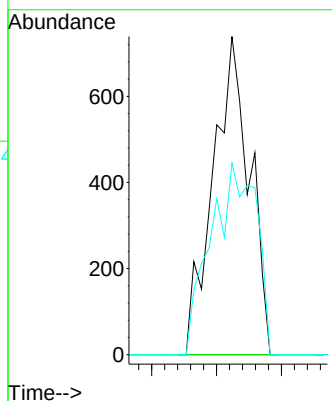
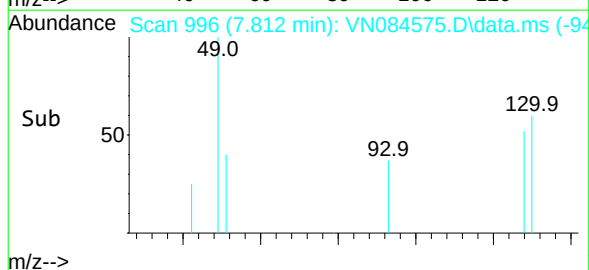
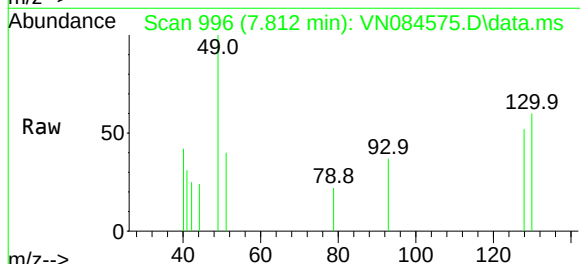
Manual Integrations
APPROVED

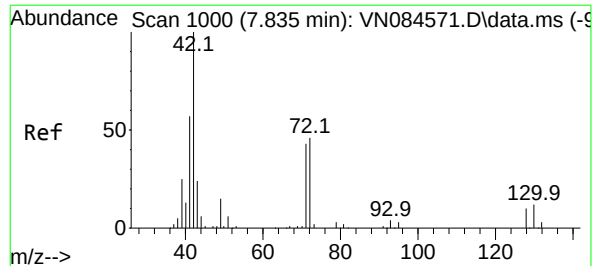
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#28
Bromochloromethane
Concen: 0.978 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN084575.D
Acq: 30 Oct 2024 13:45

Tgt Ion: 49 Resp: 1450
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 74.9 58.0 87.0





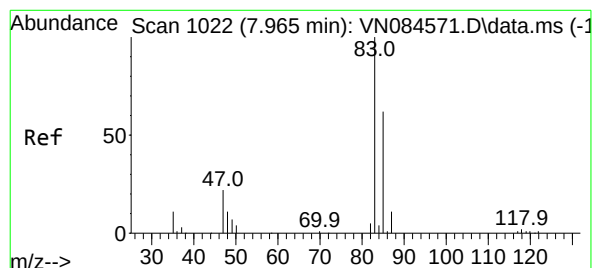
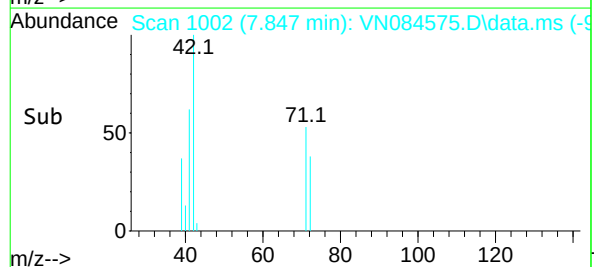
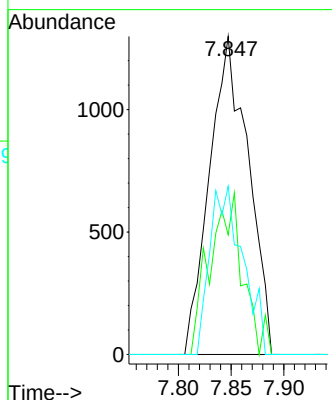
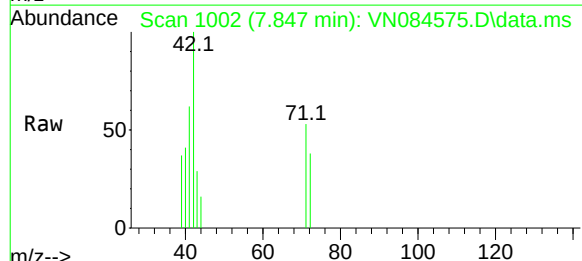
#29
Tetrahydrofuran
Concen: 4.396 ug/l
RT: 7.847 min Scan# 1000
Delta R.T. 0.012 min
Lab File: VN084575.D
Acq: 30 Oct 2024 13:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tgt Ion	Ratio	Lower	Upper
42	100		
72	43.2	34.6	51.8
71	45.0	32.2	48.4

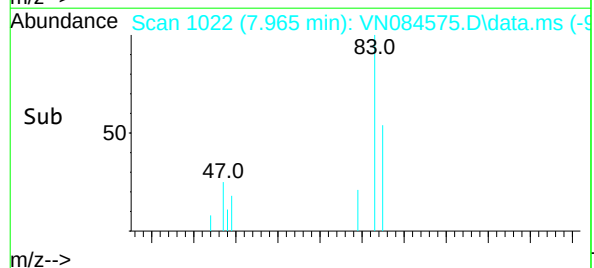
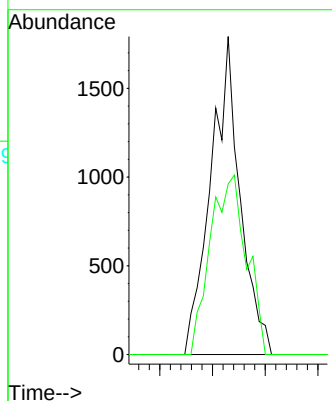
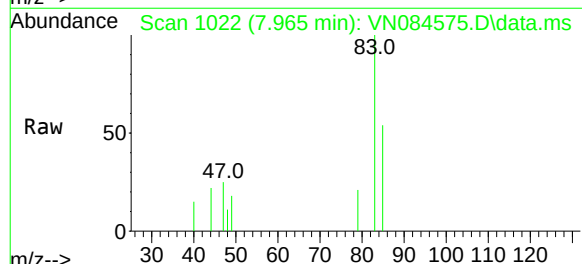
Manual Integrations
APPROVED

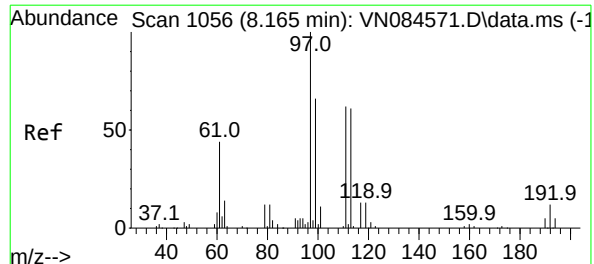
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#30
Chloroform
Concen: 0.914 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN084575.D
Acq: 30 Oct 2024 13:45

Tgt Ion	Ratio	Lower	Upper
83	100		
85	53.6	51.0	76.4





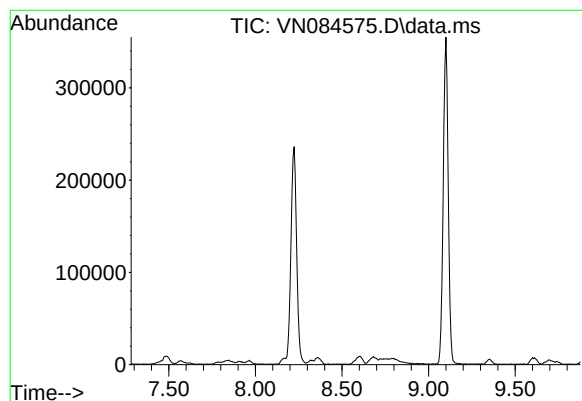
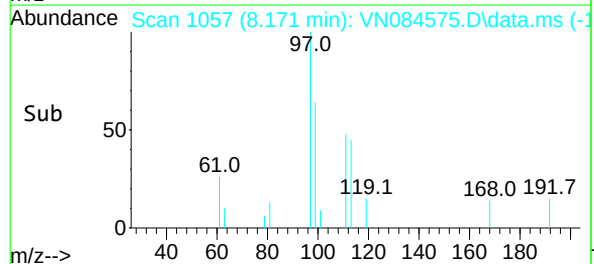
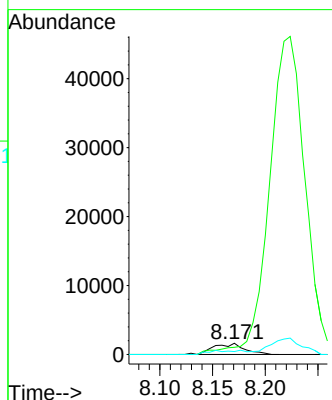
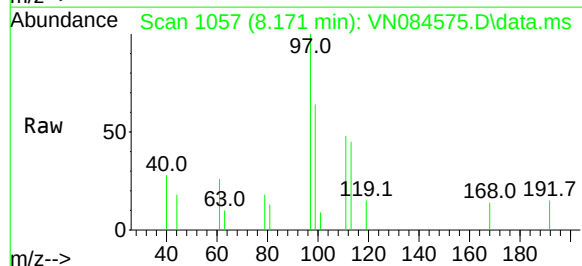
#32
1,1,1-Trichloroethane
Concen: 0.960 ug/l
RT: 8.171 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN084575.D
Acq: 30 Oct 2024 13:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 97 Resp: 3312
Ion Ratio Lower Upper
97 100
99 0.0 51.2 76.8#
61 17.9 37.5 56.3#

Manual Integrations
APPROVED

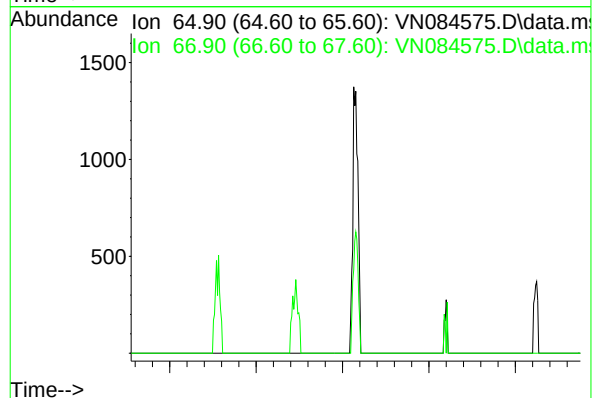
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

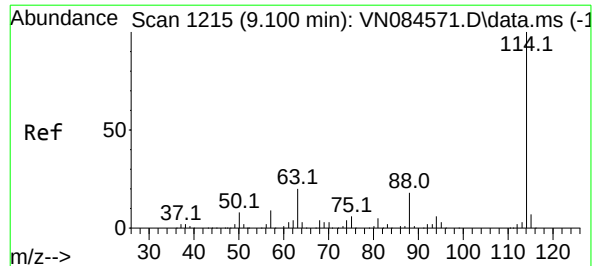


#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 8.58 min

Lab File: VN084575.D
Acq: 30 Oct 2024 13:45

Tgt Ion: 65
Sig Exp Ratio
65 100
67 51.0





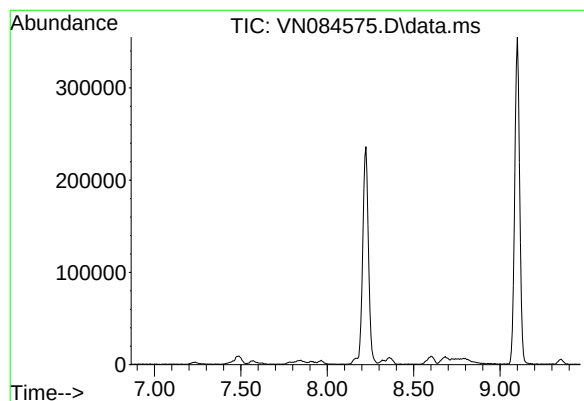
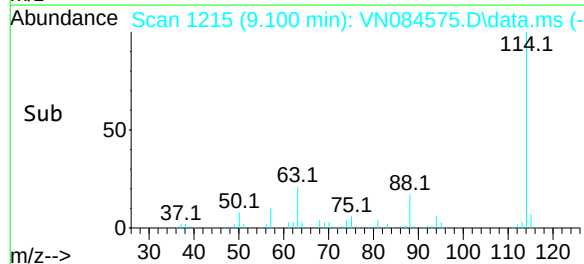
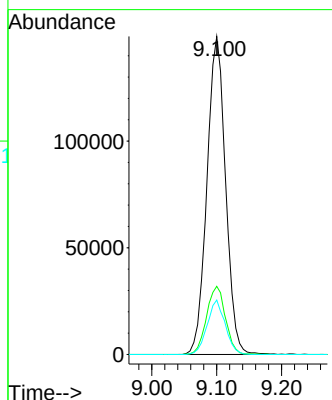
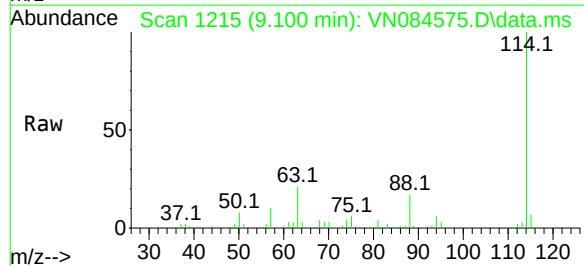
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. -0.000 min
Lab File: VN084575.D
Acq: 30 Oct 2024 13:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tgt Ion:114 Resp: 297772
Ion Ratio Lower Upper
114 100
63 21.4 0.0 43.8
88 17.1 0.0 31.6

Manual Integrations
APPROVED

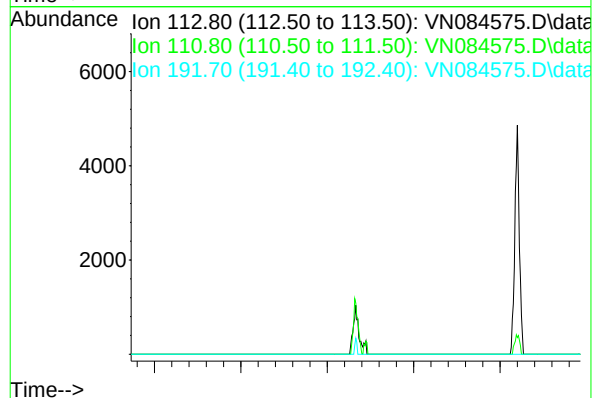
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

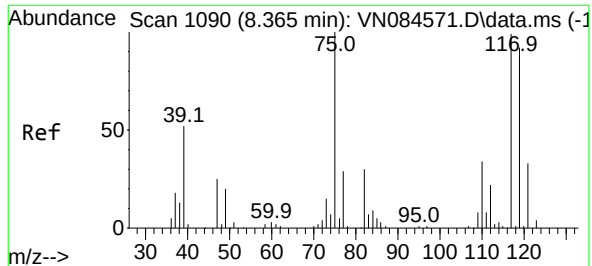


#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 8.16 min

Lab File: VN084575.D
Acq: 30 Oct 2024 13:45

Tgt Ion: 113
Sig Exp Ratio
113 100
111 104.1
192 16.9





#36

1,1-Dichloropropene

Concen: 1.011 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 75 Resp: 2825

Ion Ratio Lower Upper

75 100

110 33.5 16.9 50.7

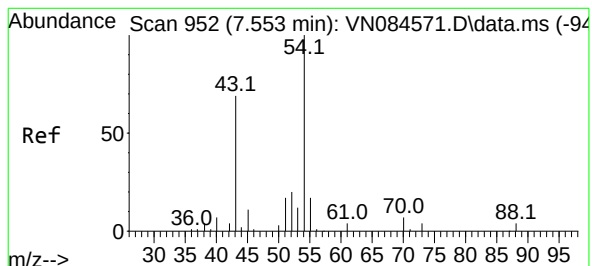
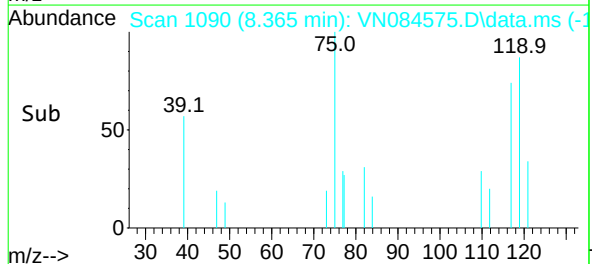
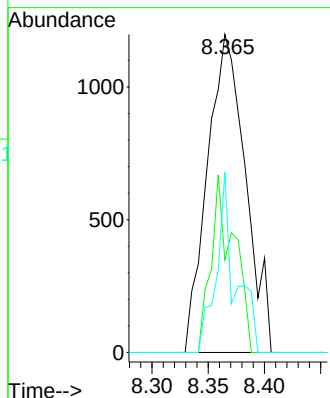
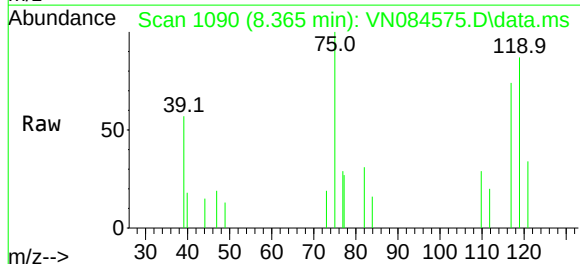
77 28.1 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#37

Ethyl Acetate

Concen: 0.962 ug/l

RT: 7.559 min Scan# 953

Delta R.T. -0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

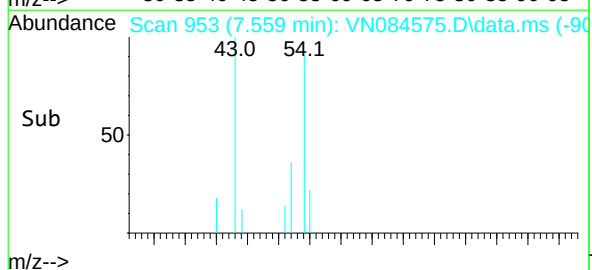
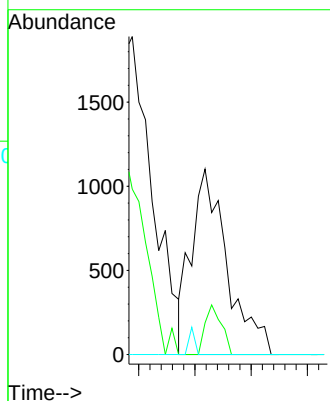
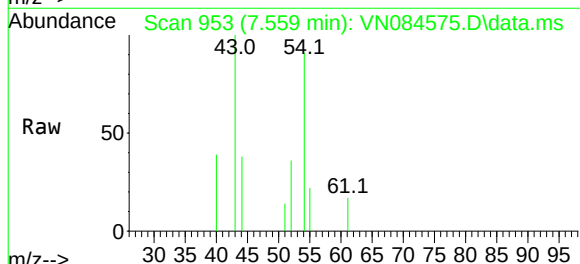
Tgt Ion: 43 Resp: 2440

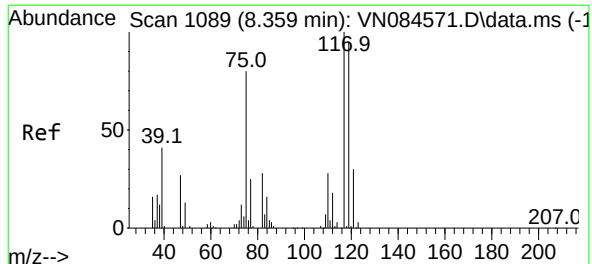
Ion Ratio Lower Upper

43 100

61 12.2 10.7 16.1

70 2.3 8.8 13.2#





#38

Carbon Tetrachloride

Concen: 0.929 ug/l

RT: 8.353 min Scan# 1089

Delta R.T. -0.006 min

Lab File: VN084575.D

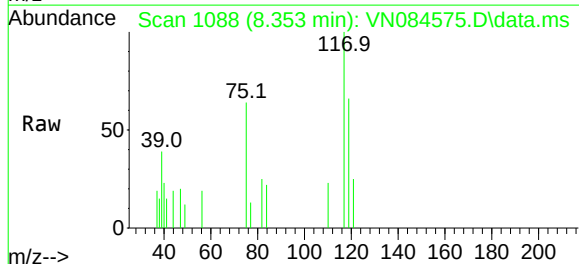
Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

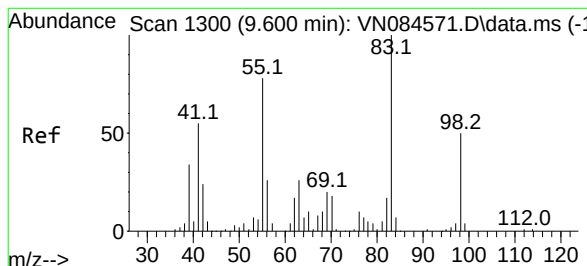
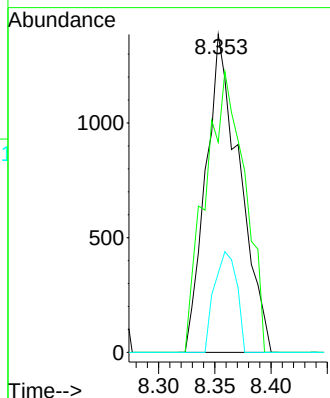
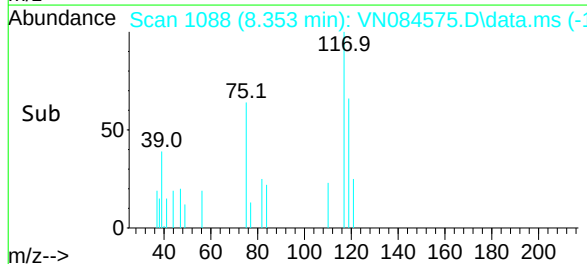
VSTDIC001



Tgt Ion:	117	Resp:	2904
Ion	Ratio	Lower	Upper
117	100		
119	66.1	78.7	118.1
121	24.9	24.4	36.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#39

Methylcyclohexane

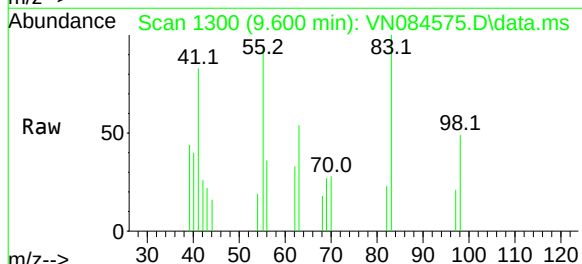
Concen: 0.778 ug/l

RT: 9.600 min Scan# 1300

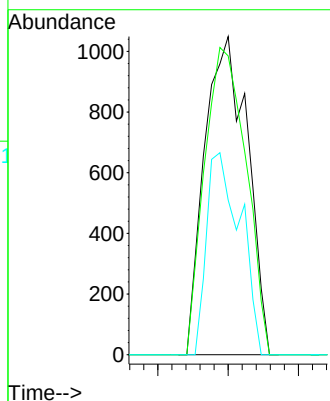
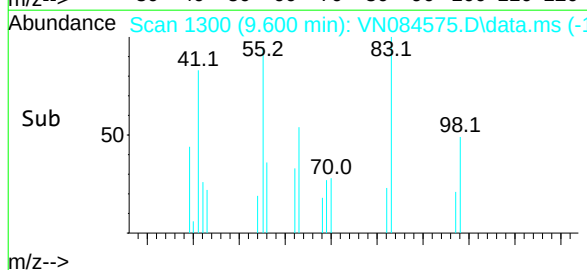
Delta R.T. -0.000 min

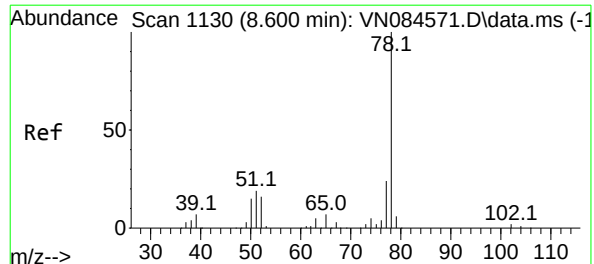
Lab File: VN084575.D

Acq: 30 Oct 2024 13:45



Tgt Ion:	83	Resp:	2212
Ion	Ratio	Lower	Upper
83	100		
55	93.9	62.8	94.2
98	48.6	38.8	58.2





#40

Benzene

Concen: 1.021 ug/l

RT: 8.600 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 78 Resp: 9169

Ion Ratio Lower Upper

78 100

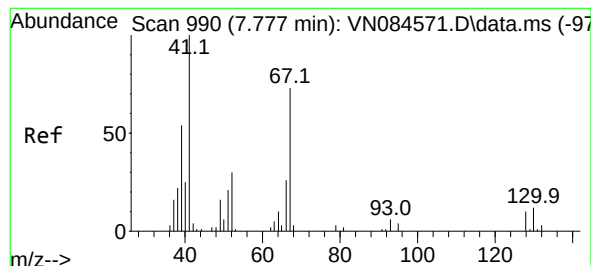
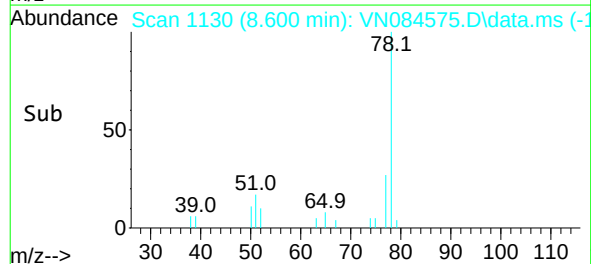
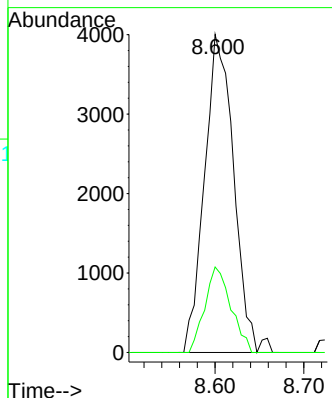
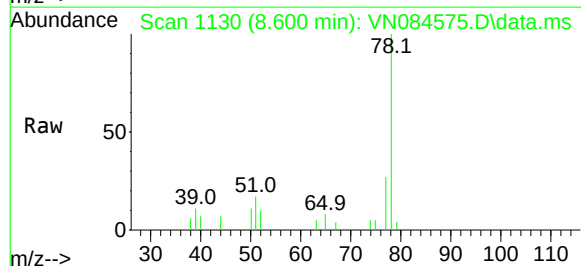
77 26.9 19.1 28.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#41

Methacrylonitrile

Concen: 0.803 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Tgt Ion: 41 Resp: 1095

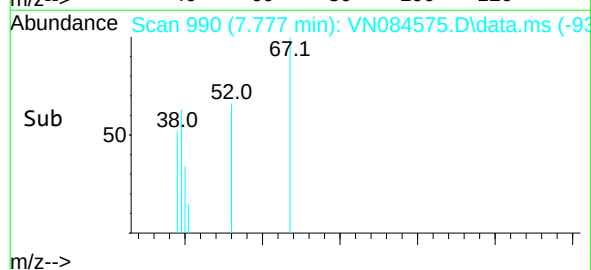
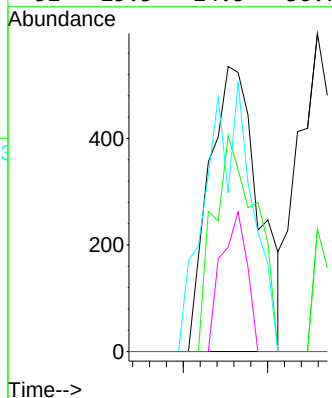
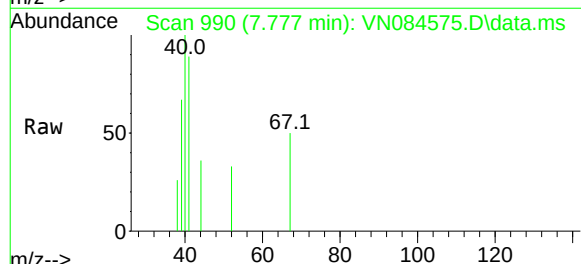
Ion Ratio Lower Upper

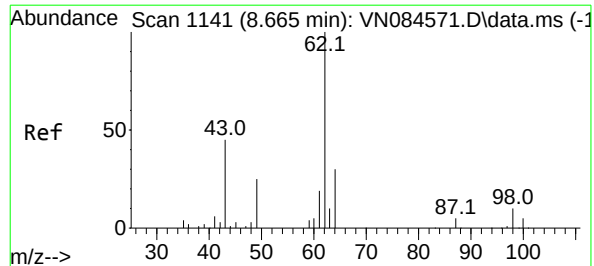
41 100

39 64.7 43.3 64.9

67 86.7 56.1 84.1#

52 25.5 24.5 36.7





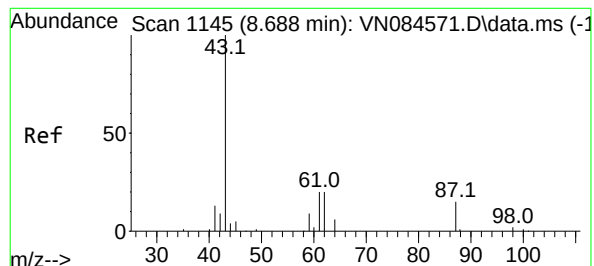
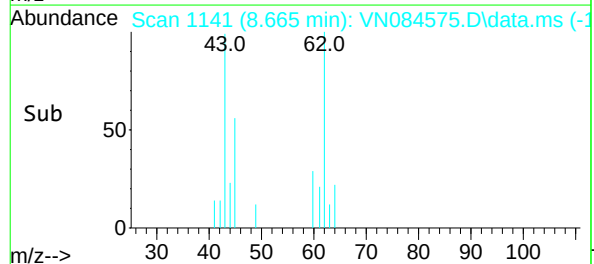
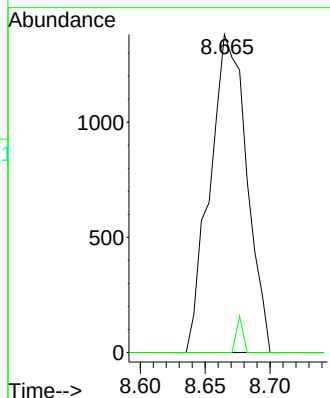
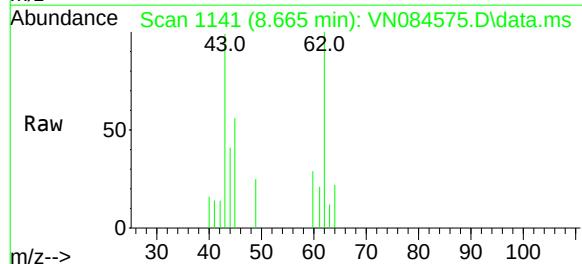
#42
1,2-Dichloroethane
Concen: 0.940 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.006 min
Lab File: VN084575.D
Acq: 30 Oct 2024 13:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 2733
Ion Ratio Lower Upper
62 100
98 2.0 0.0 18.2

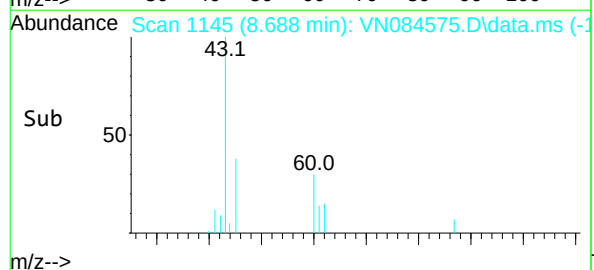
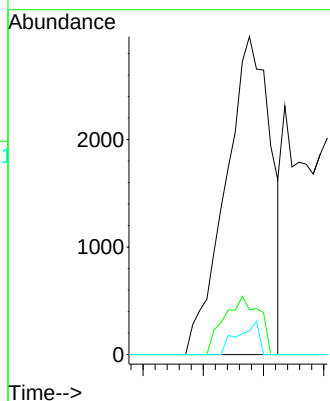
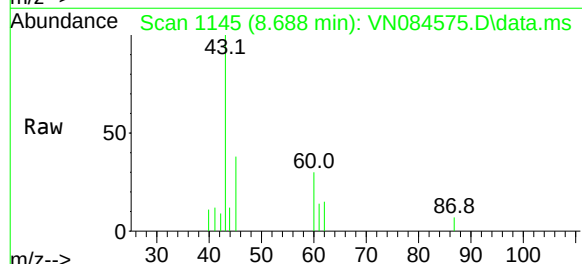
Manual Integrations
APPROVED

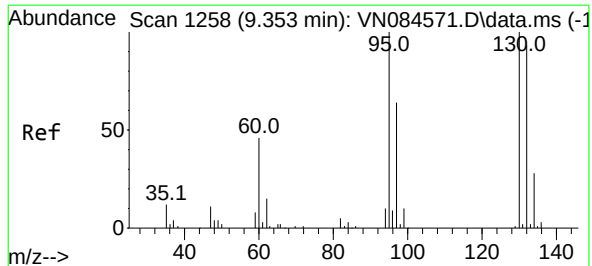
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#43
Isopropyl Acetate
Concen: 0.697 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN084575.D
Acq: 30 Oct 2024 13:45

Tgt Ion: 43 Resp: 7724
Ion Ratio Lower Upper
43 100
61 14.3 20.4 30.6#
87 4.9 10.3 15.5#





#44

Trichloroethene

Concen: 1.114 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.006 min

Lab File: VN084575.D

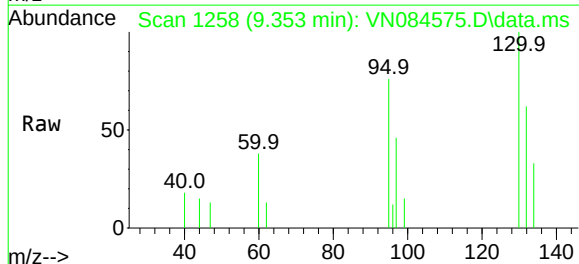
Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001



Tgt Ion:130 Resp: 2306

Ion Ratio Lower Upper

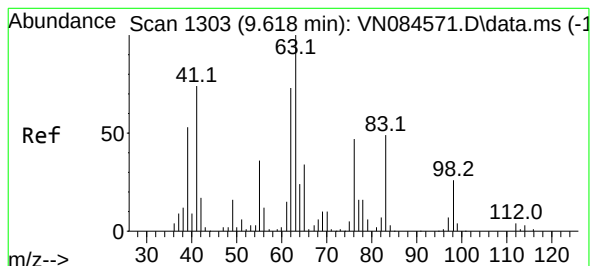
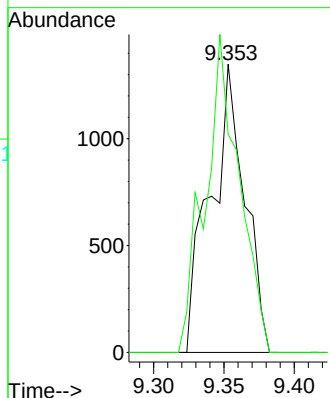
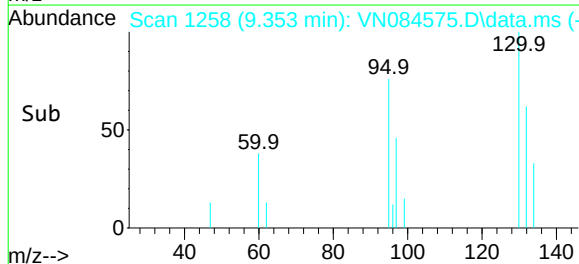
130 100

95 75.7 0.0 203.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#45

1,2-Dichloropropane

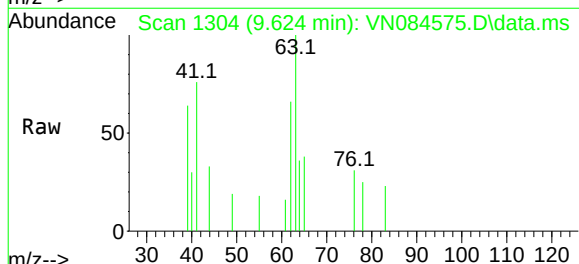
Concen: 0.934 ug/l

RT: 9.624 min Scan# 1304

Delta R.T. 0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

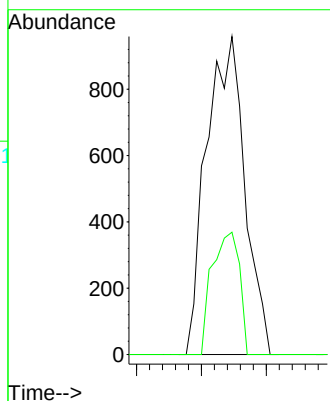
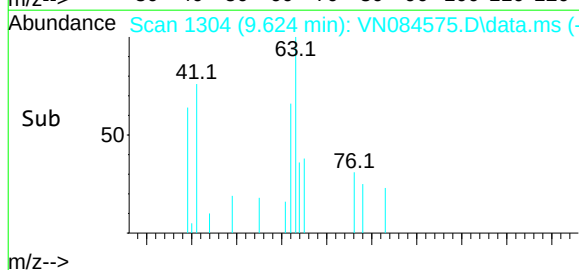


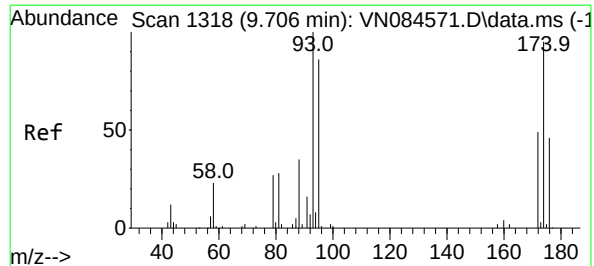
Tgt Ion: 63 Resp: 1967

Ion Ratio Lower Upper

63 100

65 38.5 24.6 37.0#





#46

Dibromomethane

Concen: 0.991 ug/l

RT: 9.712 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 93 Resp: 1472

Ion Ratio Lower Upper

93 100

95 86.6 65.0 97.4

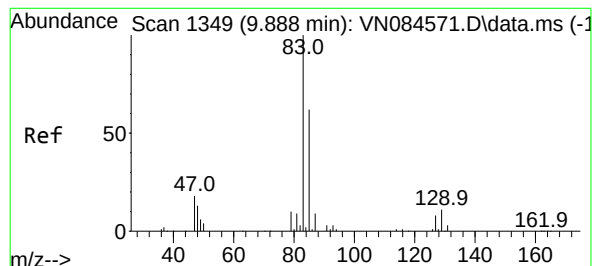
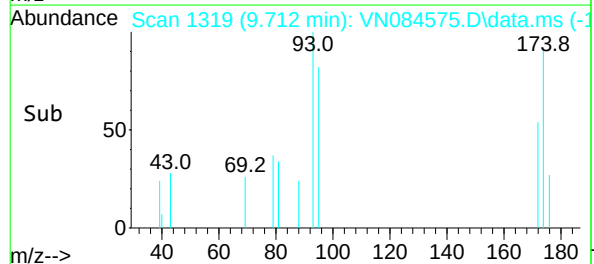
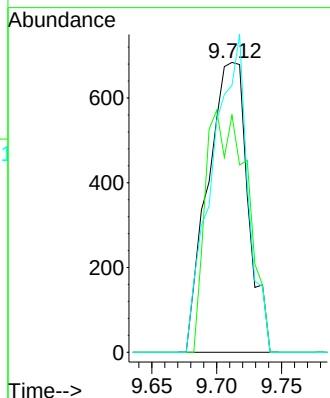
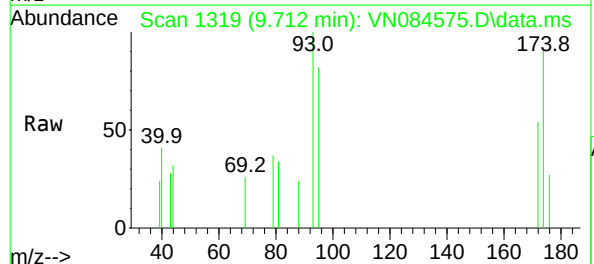
174 97.5 71.8 107.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#47

Bromodichloromethane

Concen: 1.008 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. -0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

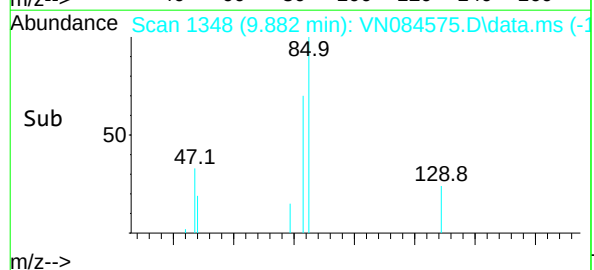
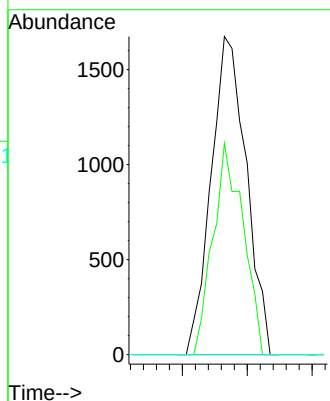
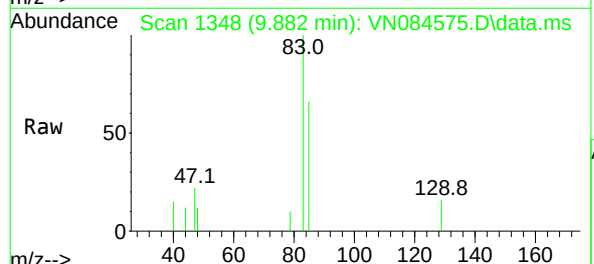
Tgt Ion: 83 Resp: 3156

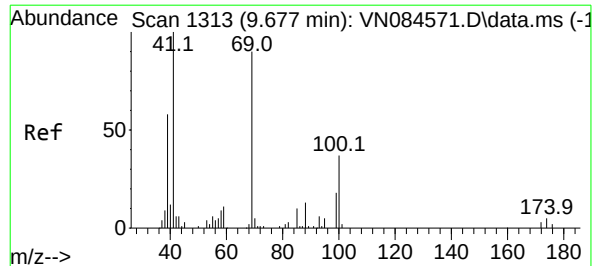
Ion Ratio Lower Upper

83 100

85 66.4 51.5 77.3

127 0.0 5.7 8.5#





#48

Methyl methacrylate

Concen: 0.837 ug/l

RT: 9.682 min Scan# 1313

Delta R.T. 0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 41 Resp: 1652

Ion Ratio Lower Upper

41 100

69 71.3 67.1 100.7

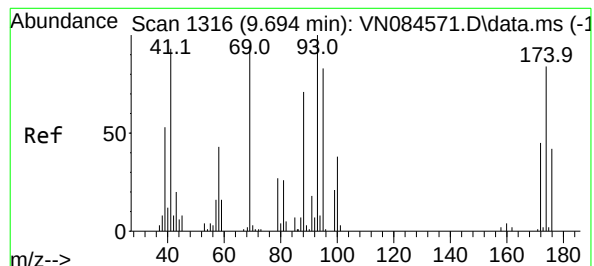
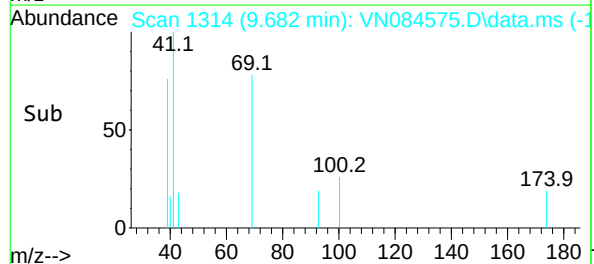
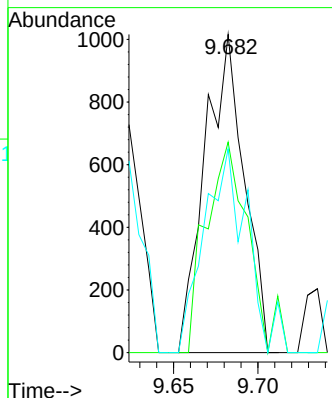
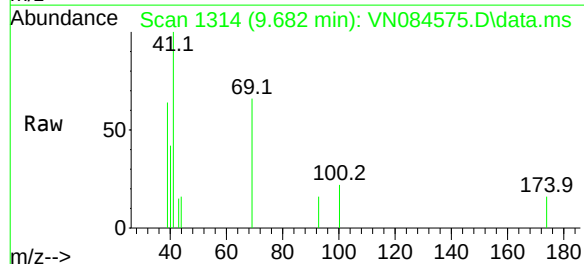
39 70.6 45.8 68.6#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#49

1,4-Dioxane

Concen: 16.468 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. 0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

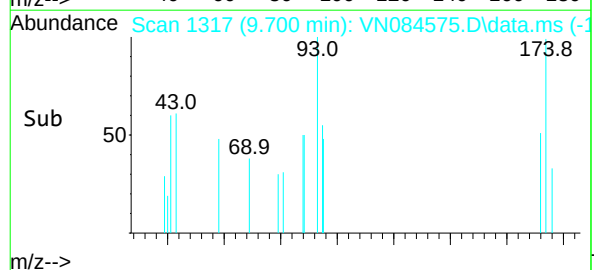
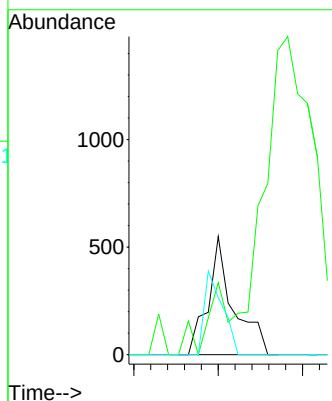
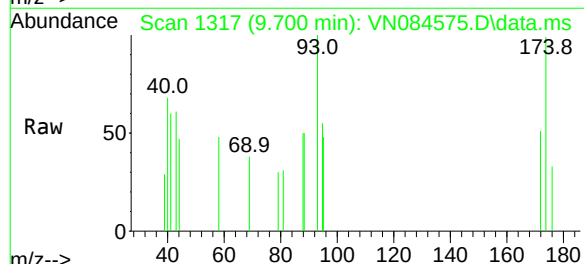
Tgt Ion: 88 Resp: 576

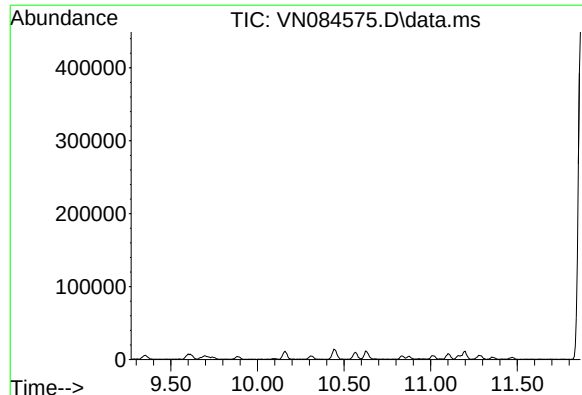
Ion Ratio Lower Upper

88 100

43 49.8 25.3 37.9#

58 50.7 56.4 84.6#





#50

Toluene-d8

Concen: 0.000 ug/l

Expected RT: 10.57 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Tgt Ion: 98

Sig Exp Ratio

98 100

100 65.9

Instrument :

MSVOA_N

ClientSampleId :

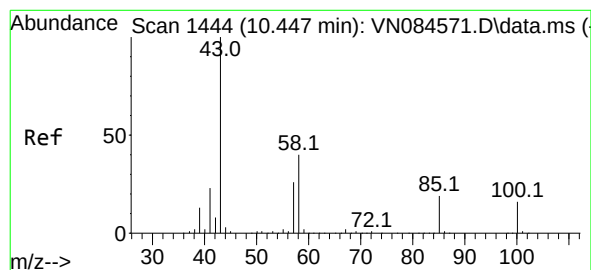
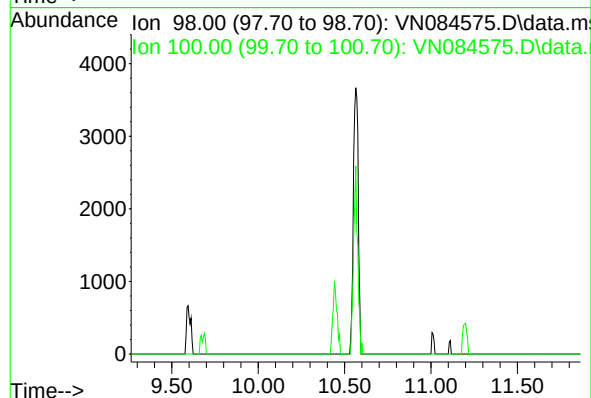
VSTDICC001

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#51

4-Methyl-2-Pentanone

Concen: 4.234 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. -0.000 min

Lab File: VN084575.D

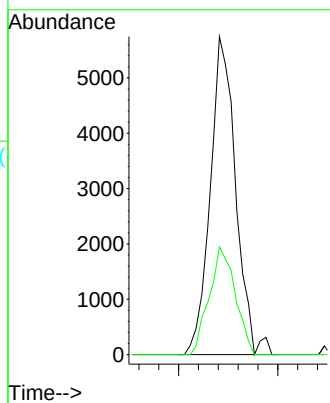
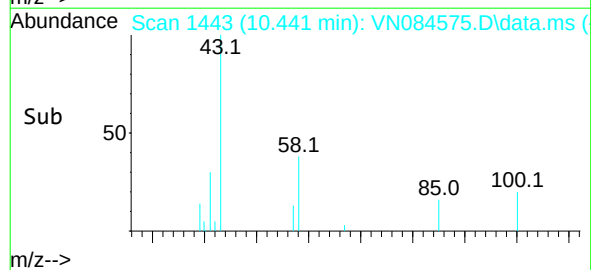
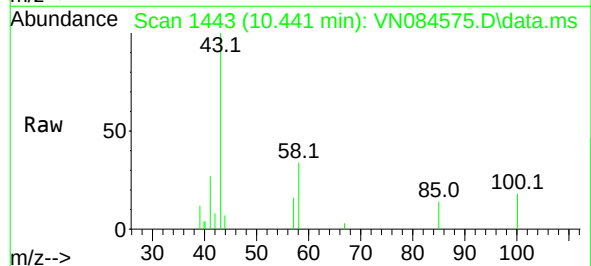
Acq: 30 Oct 2024 13:45

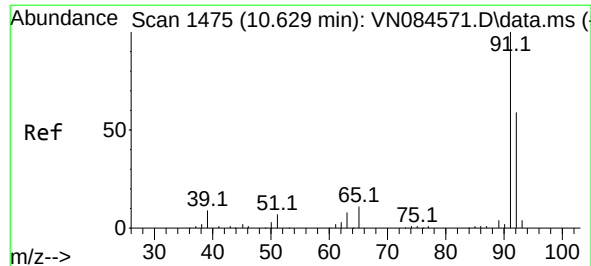
Tgt Ion: 43 Resp: 10237

Ion Ratio Lower Upper

43 100

58 34.7 31.6 47.4





#52

Toluene

Concen: 0.858 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Tgt Ion: 92 Resp: 4507

Ion Ratio Lower Upper

92 100

91 187.2 137.3 205.9

Instrument :

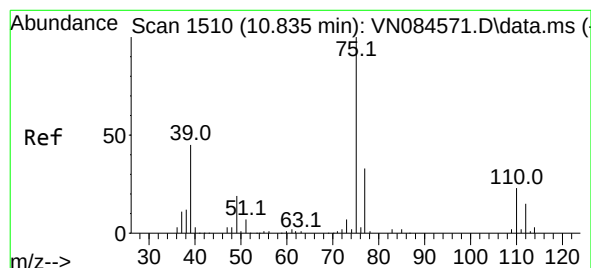
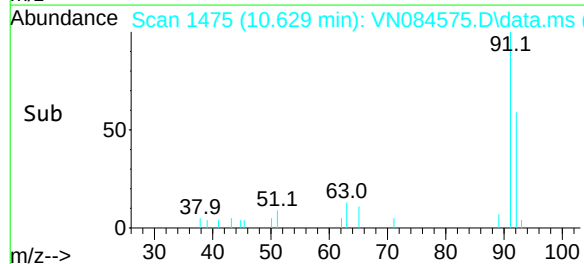
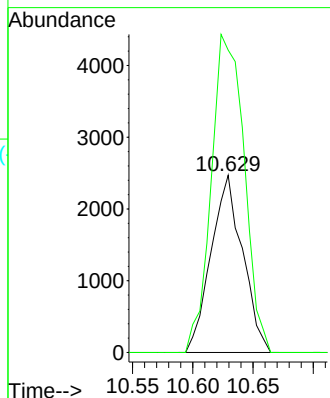
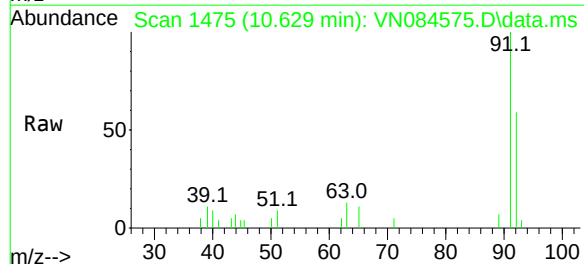
MSVOA_N

ClientSampleId :

VSTDICC001

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#53

t-1,3-Dichloropropene

Concen: 1.020 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VN084575.D

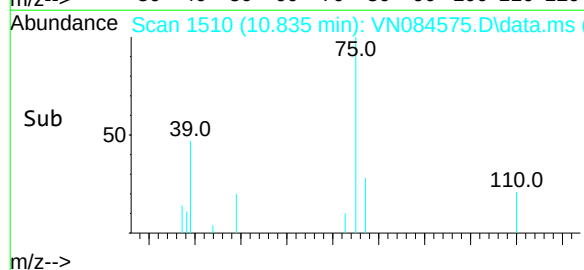
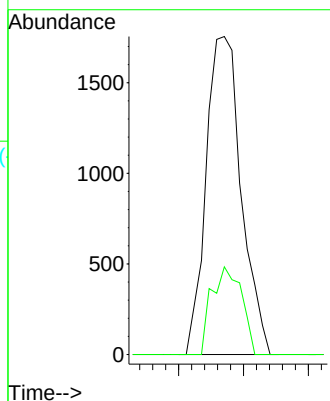
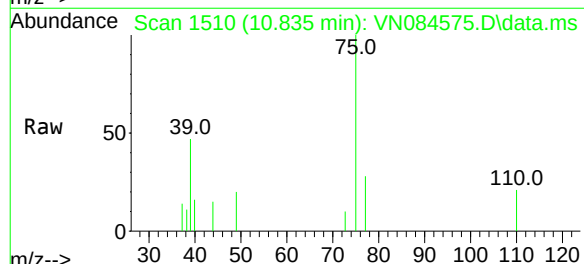
Acq: 30 Oct 2024 13:45

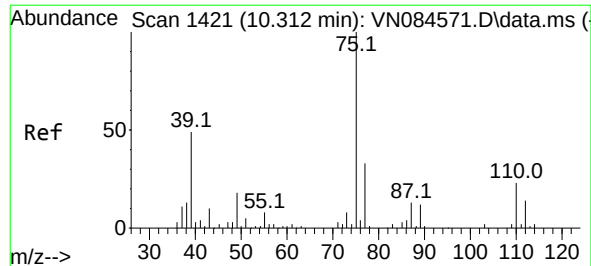
Tgt Ion: 75 Resp: 3308

Ion Ratio Lower Upper

75 100

77 27.6 25.4 38.0





#54

cis-1,3-Dichloropropene

Concen: 0.952 ug/l

RT: 10.312 min Scan# 14

Delta R.T. -0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

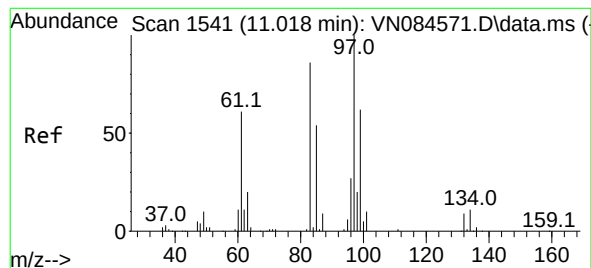
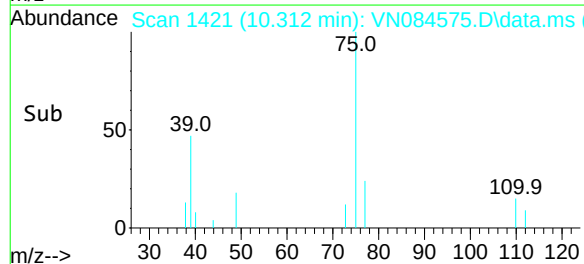
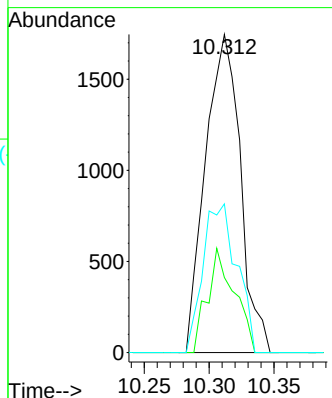
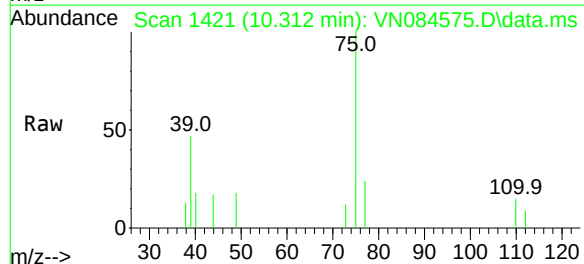
ClientSampleId :

VSTDIC001

Tgt	Ion	75	Resp:	3266
Ion	Ratio	Lower	Upper	
75	100			
77	23.6	24.2	36.2	#
39	46.7	38.7	58.1	

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#55

1,1,2-Trichloroethane

Concen: 0.931 ug/l

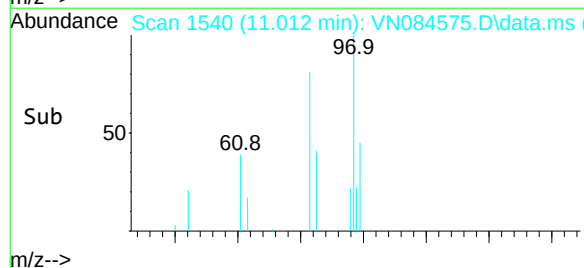
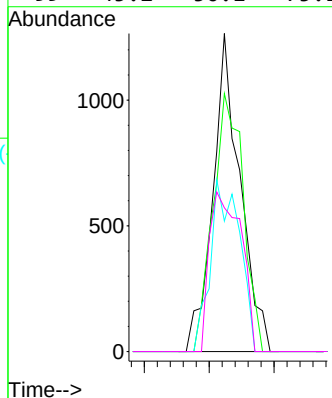
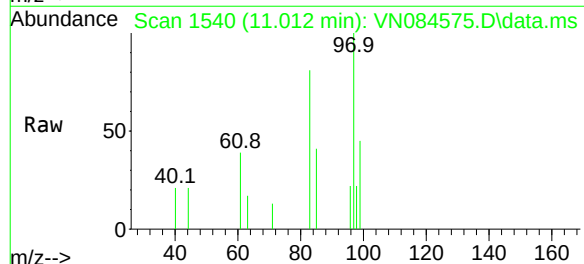
RT: 11.012 min Scan# 1540

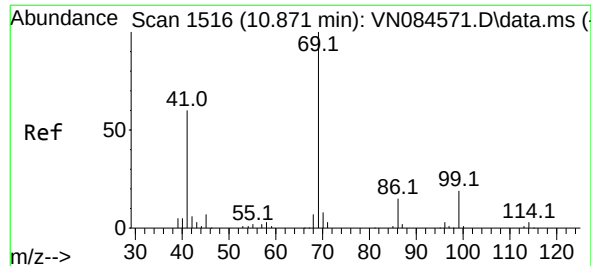
Delta R.T. -0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Tgt	Ion	97	Resp:	1841
Ion	Ratio	Lower	Upper	
97	100			
83	81.1	71.0	106.4	
85	41.0	41.7	62.5	#
99	45.2	50.1	75.1	#





#56

Ethyl methacrylate

Concen: 0.773 ug/l

RT: 10.876 min Scan# 1516

Delta R.T. 0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

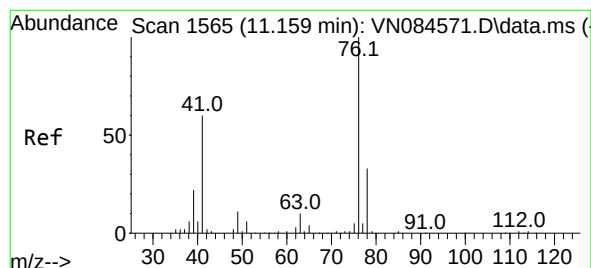
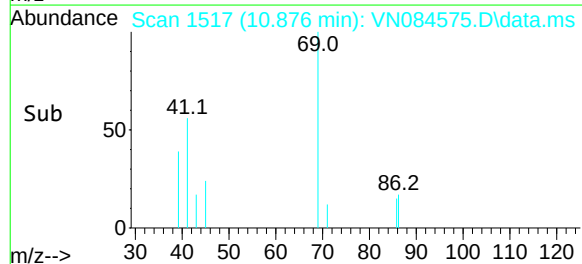
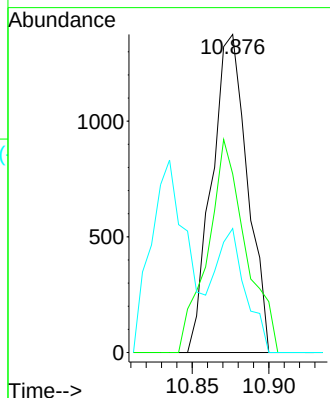
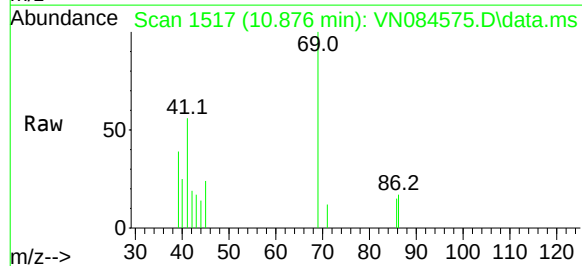
ClientSampleId :

VSTDICC001

Tgt	Ion	69	Resp:	2211
Ion	Ratio	Lower	Upper	
69	100			
41	71.6	53.3	79.9	
39	32.3	28.8	43.2	

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#57

1,3-Dichloropropane

Concen: 0.925 ug/l

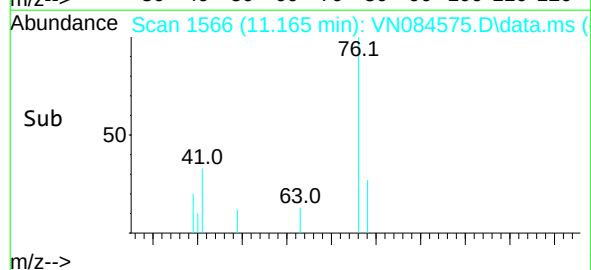
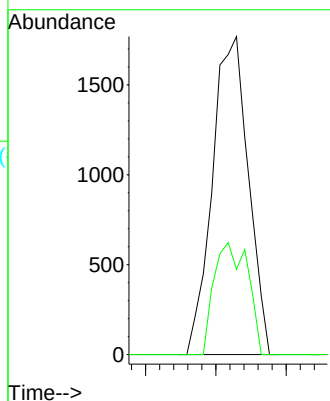
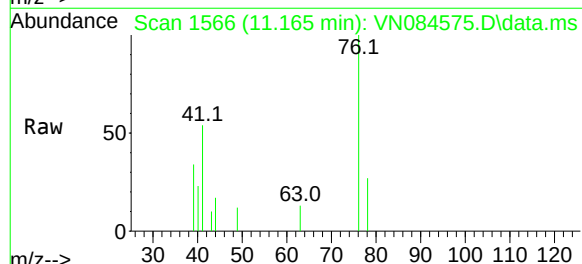
RT: 11.165 min Scan# 1566

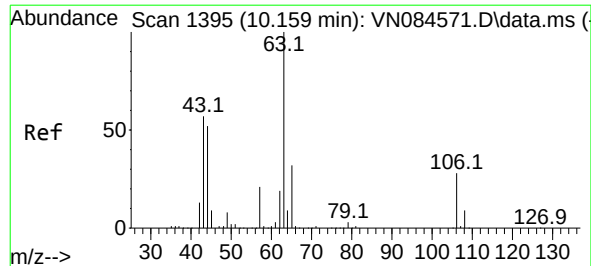
Delta R.T. 0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Tgt	Ion	76	Resp:	3139
Ion	Ratio	Lower	Upper	
76	100			
78	33.0	25.8	38.6	





#58

2-Chloroethyl Vinyl ether

Concen: 3.720 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 63 Resp: 4979

Ion Ratio Lower Upper

63 100

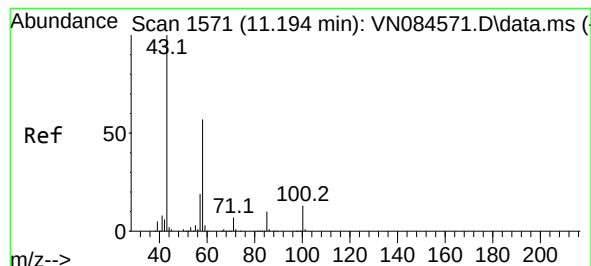
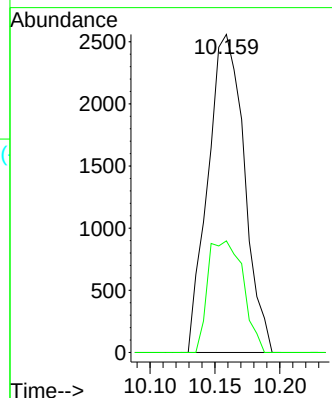
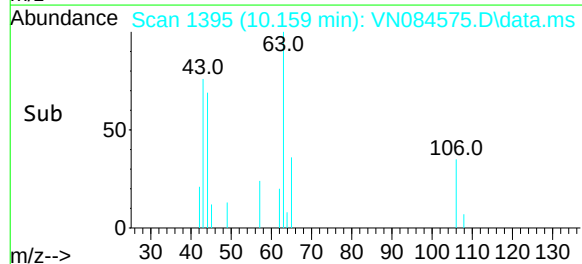
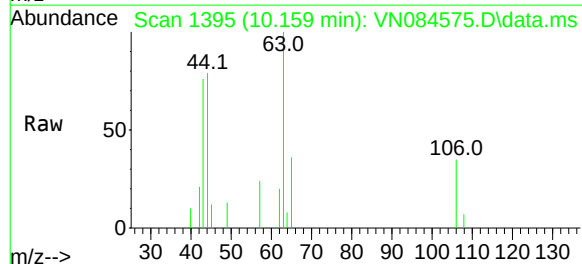
106 34.0 21.8 32.6#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#59

2-Hexanone

Concen: 4.328 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN084575.D

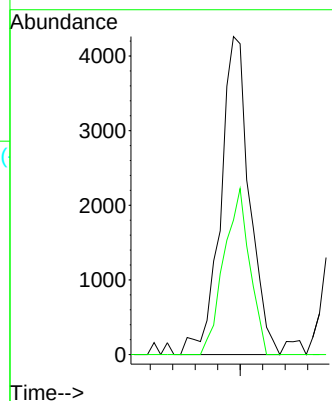
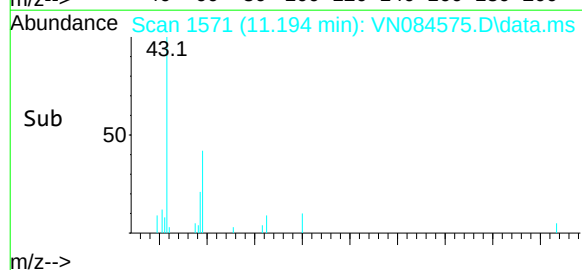
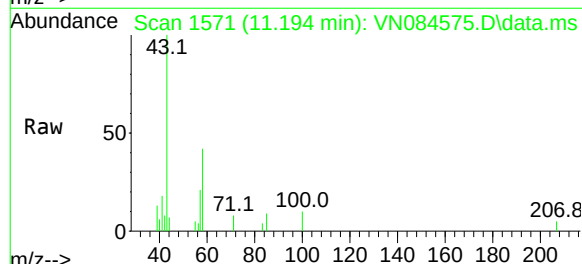
Acq: 30 Oct 2024 13:45

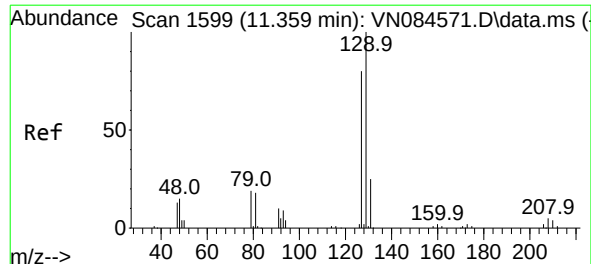
Tgt Ion: 43 Resp: 7617

Ion Ratio Lower Upper

43 100

58 46.7 27.3 81.8





#60

Dibromochloromethane

Concen: 0.824 ug/l

RT: 11.353 min Scan# 1599

Delta R.T. -0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:129 Resp: 1857

Ion Ratio Lower Upper

129 100

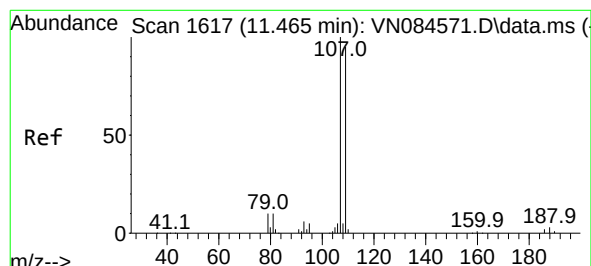
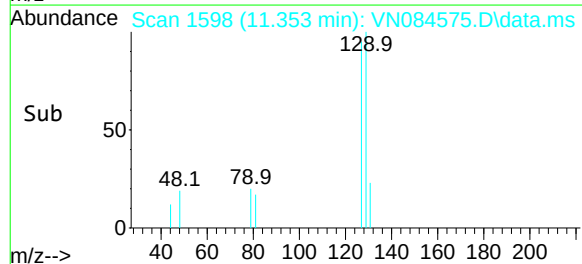
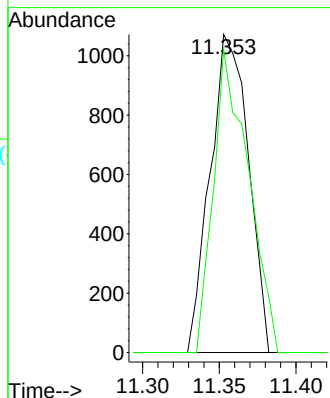
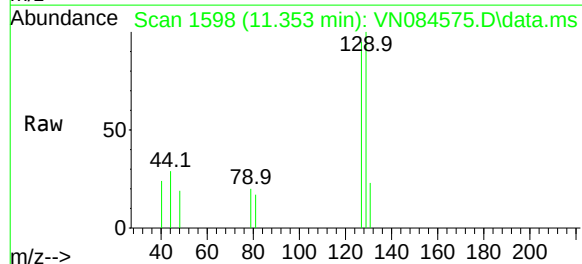
127 87.2 38.3 114.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#61

1,2-Dibromoethane

Concen: 0.988 ug/l

RT: 11.465 min Scan# 1617

Delta R.T. -0.000 min

Lab File: VN084575.D

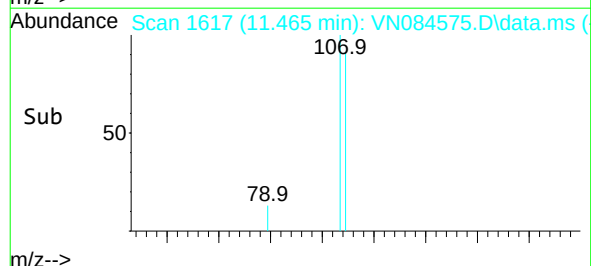
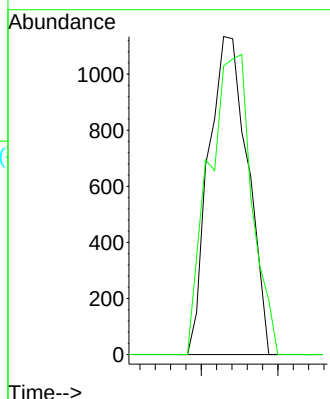
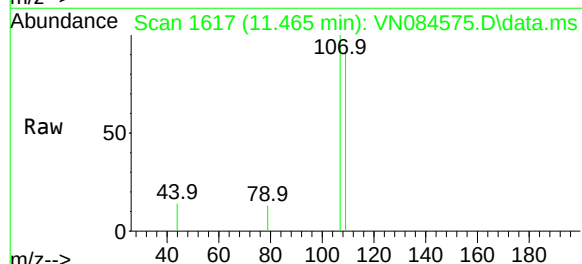
Acq: 30 Oct 2024 13:45

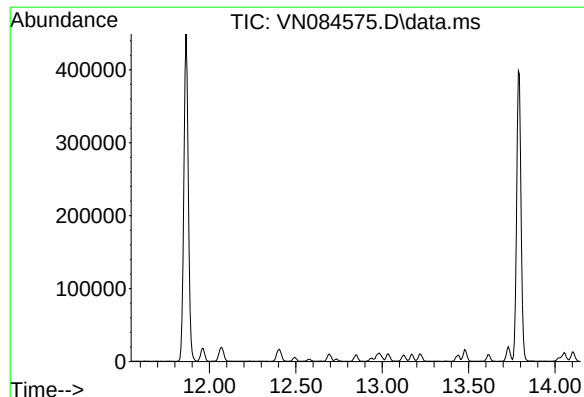
Tgt Ion:107 Resp: 2001

Ion Ratio Lower Upper

107 100

109 104.4 75.4 113.0





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

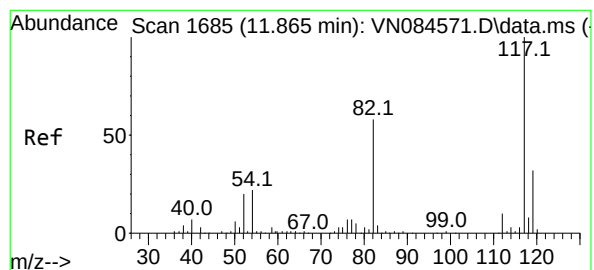
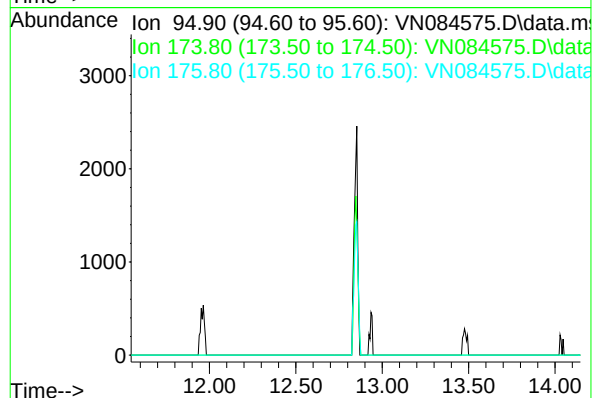
Lab File: VN084575.D
Acq: 30 Oct 2024 13:45

Tgt Ion:	95
Sig	Exp Ratio
95	100
174	72.6
176	70.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

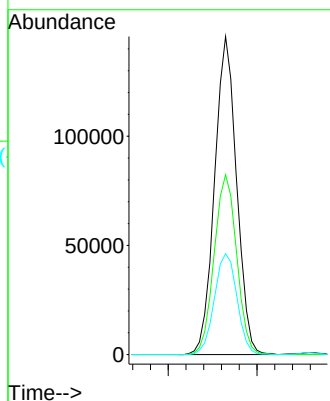
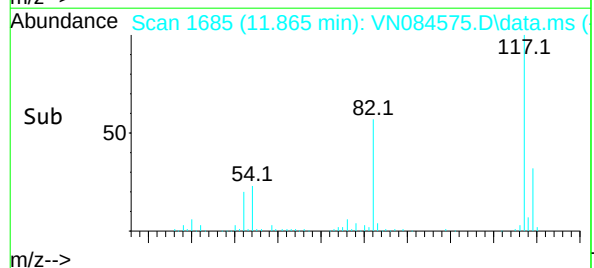
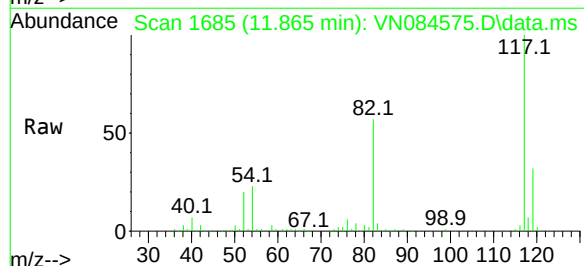
Manual Integrations
APPROVED

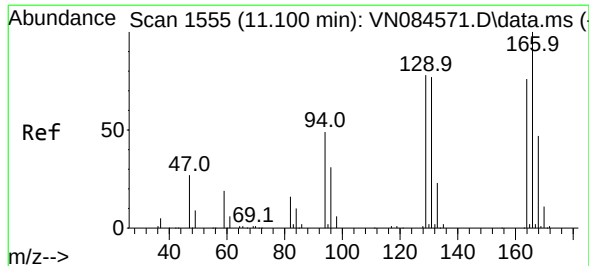
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084575.D
Acq: 30 Oct 2024 13:45

Tgt Ion:	117	Resp:	250990
Ion	Ratio	Lower	Upper
117	100		
82	56.5	47.2	70.8
119	31.7	25.4	38.0





#64

Tetrachloroethene

Concen: 0.976 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN084575.D

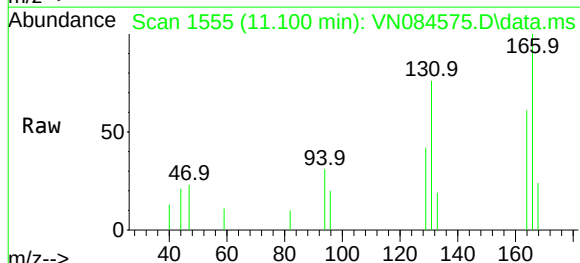
Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

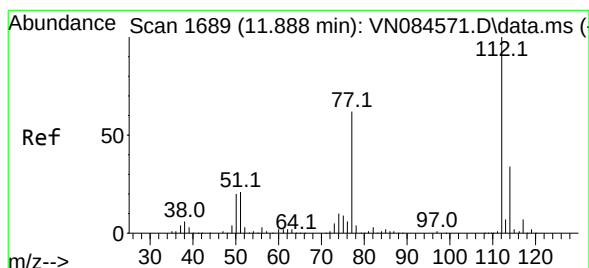
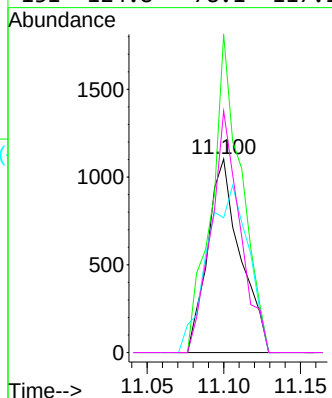
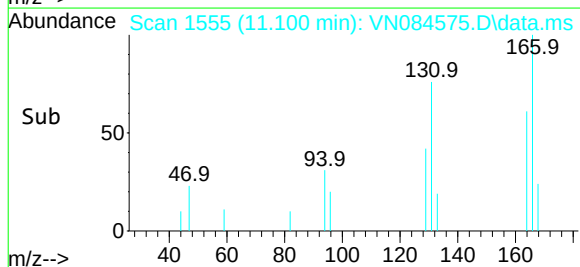
VSTDIC001



Tgt Ion:	164	Resp:	1629
Ion	Ratio	Lower	Upper
164	100		
166	164.4	101.0	151.4#
129	69.6	80.8	121.2#
131	124.8	78.1	117.1#

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#65

Chlorobenzene

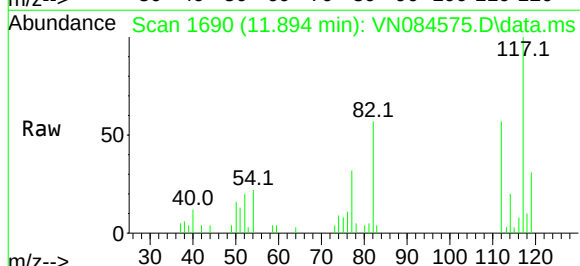
Concen: 1.025 ug/l

RT: 11.894 min Scan# 1690

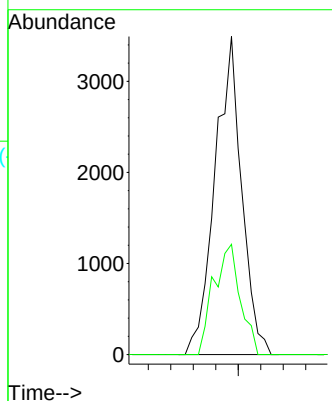
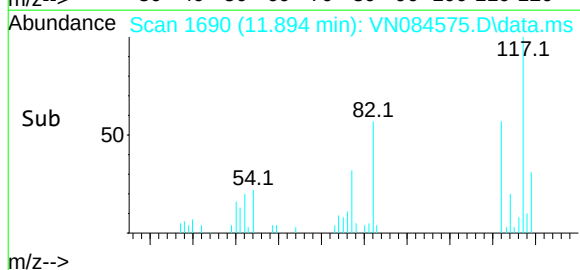
Delta R.T. 0.006 min

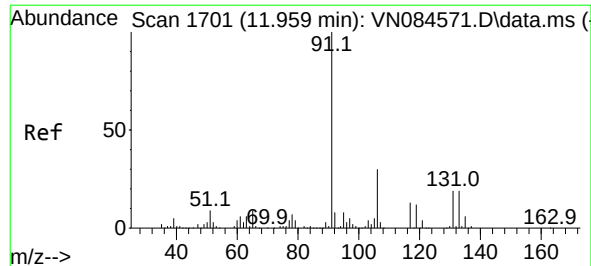
Lab File: VN084575.D

Acq: 30 Oct 2024 13:45



Tgt Ion:	112	Resp:	5753
Ion	Ratio	Lower	Upper
112	100		
114	34.7	27.0	40.6





#66

1,1,1,2-Tetrachloroethane

Concen: 1.025 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

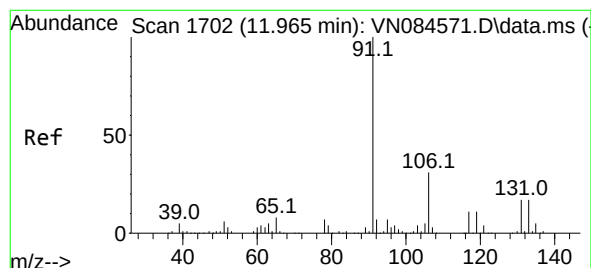
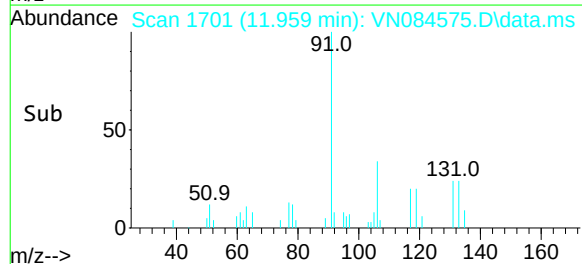
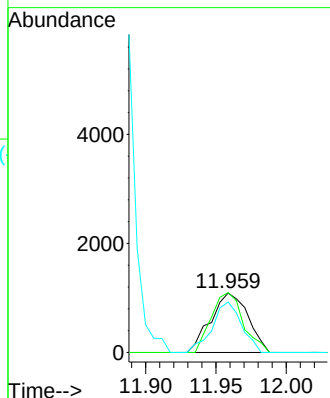
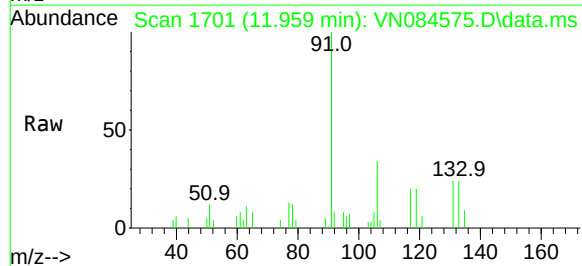
VSTDIC001

Tgt Ion:	131	Resp:	2002
Ion	Ratio	Lower	Upper
131	100		
133	86.7	47.9	143.7
119	0.0	32.8	98.3#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#67

Ethyl Benzene

Concen: 0.909 ug/l

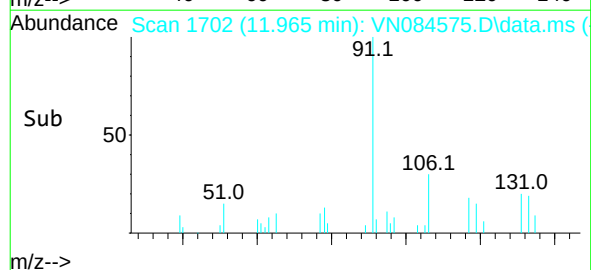
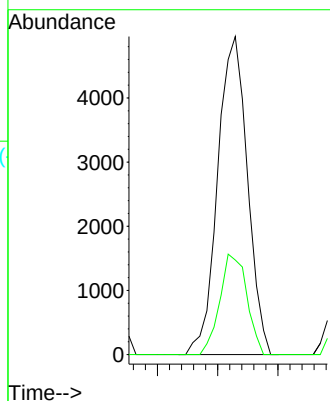
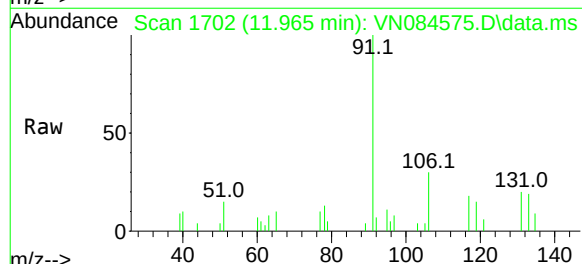
RT: 11.965 min Scan# 1702

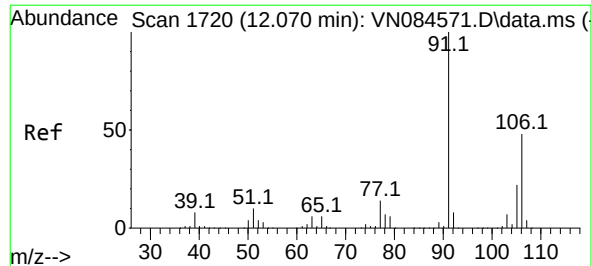
Delta R.T. 0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Tgt Ion:	91	Resp:	8520
Ion	Ratio	Lower	Upper
91	100		
106	29.7	24.5	36.7





#68

m/p-Xylenes

Concen: 1.851 ug/l

RT: 12.070 min Scan# 17

Delta R.T. -0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion:106 Resp: 6568

Ion Ratio Lower Upper

106 100

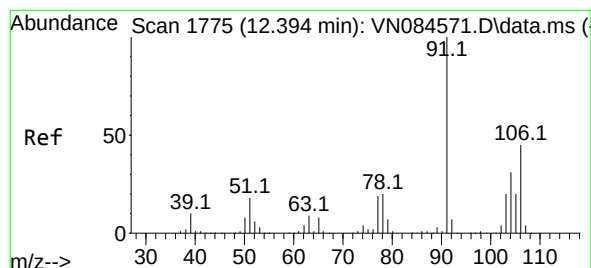
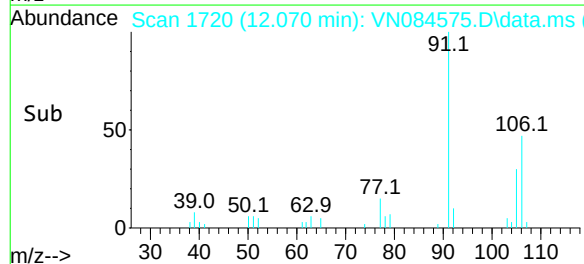
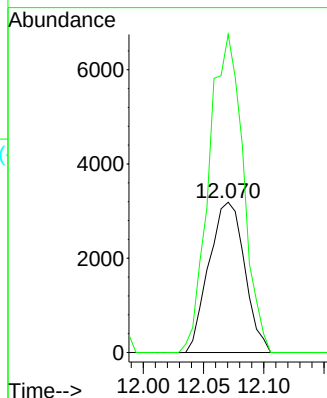
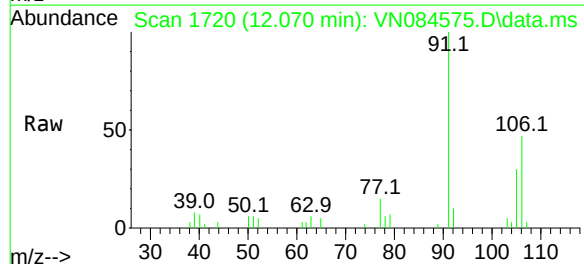
91 202.9 167.1 250.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#69

o-Xylene

Concen: 0.831 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. 0.006 min

Lab File: VN084575.D

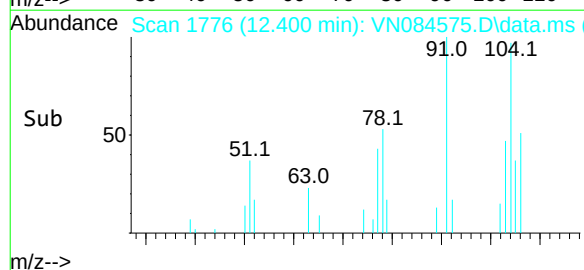
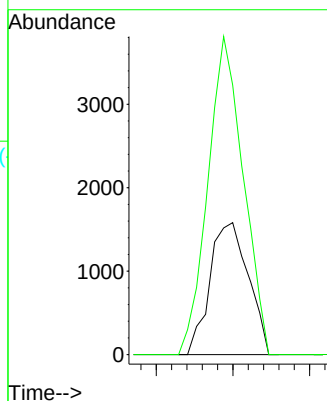
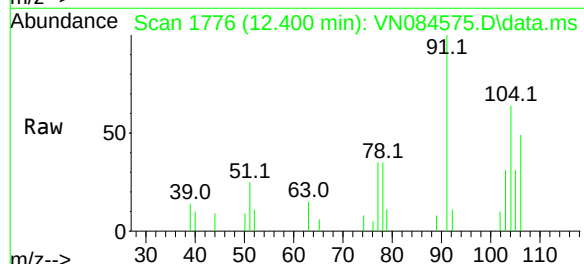
Acq: 30 Oct 2024 13:45

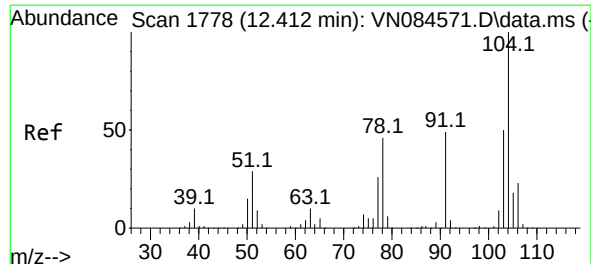
Tgt Ion:106 Resp: 2759

Ion Ratio Lower Upper

106 100

91 221.6 110.2 330.6





#70

Styrene

Concen: 0.910 ug/l

RT: 12.406 min Scan# 17

Delta R.T. -0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

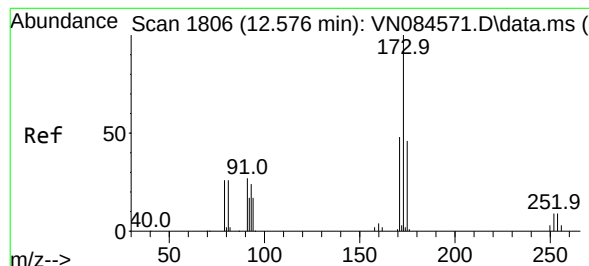
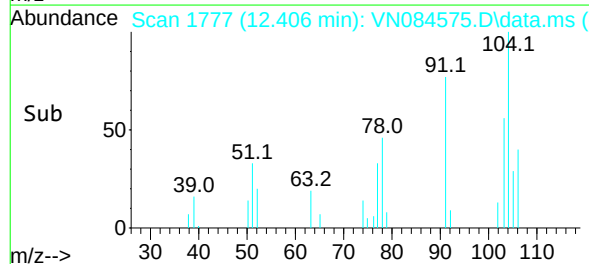
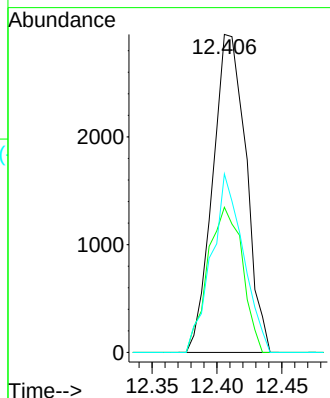
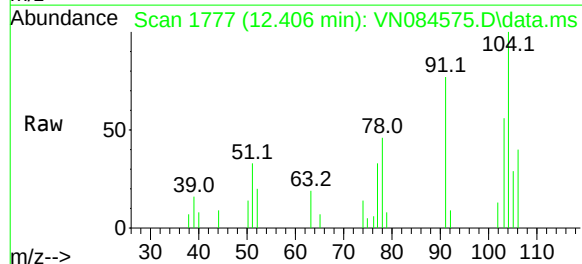
VSTDIC001

Tgt	Ion:104	Resp:	5269
Ion	Ratio	Lower	Upper
104	100		
78	47.3	42.7	64.1
103	53.6	43.6	65.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#71

Bromoform

Concen: 0.976 ug/l

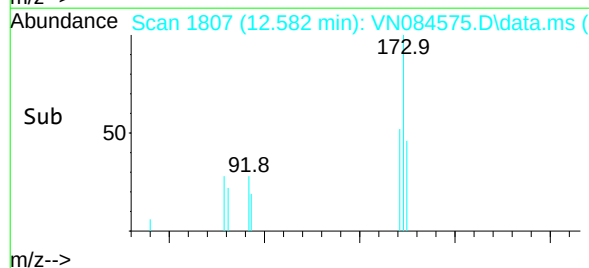
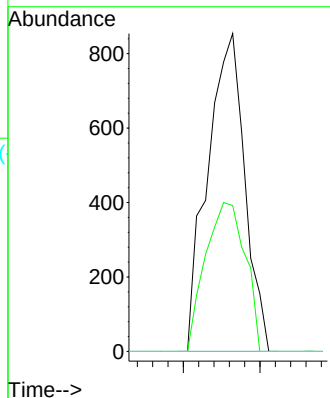
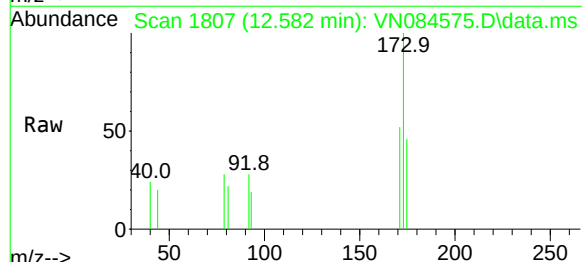
RT: 12.582 min Scan# 1807

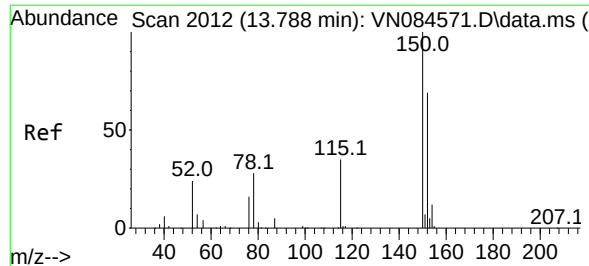
Delta R.T. 0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Tgt	Ion:173	Resp:	1434
Ion	Ratio	Lower	Upper
173	100		
175	50.3	23.5	70.6
254	0.0	0.0	0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2012

Delta R.T. 0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:152 Resp: 109560

Ion Ratio Lower Upper

152 100

115 61.9 31.3 93.9

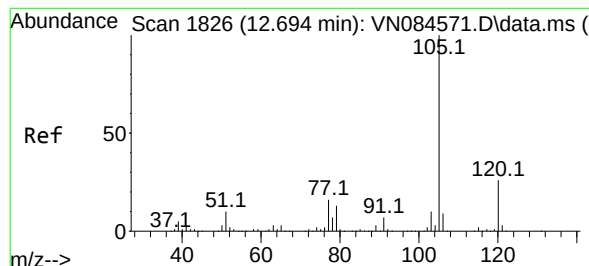
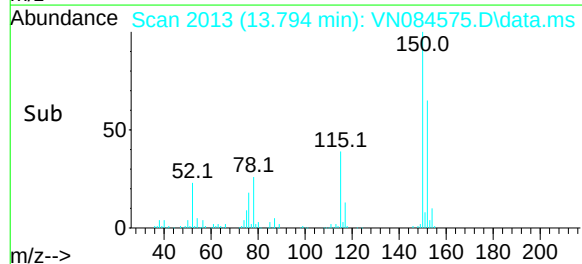
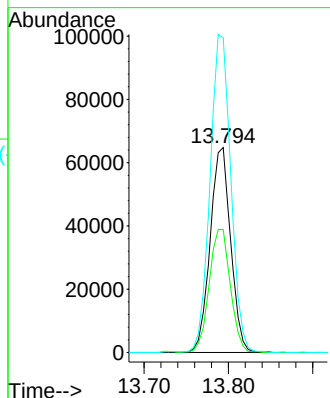
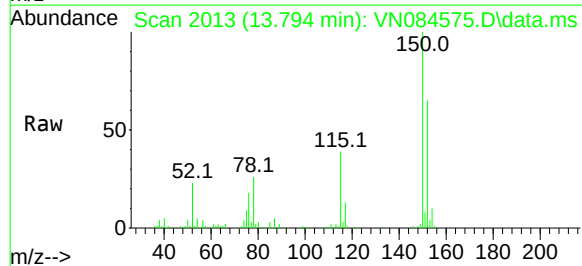
150 157.6 0.0 349.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#73

Isopropylbenzene

Concen: 0.910 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN084575.D

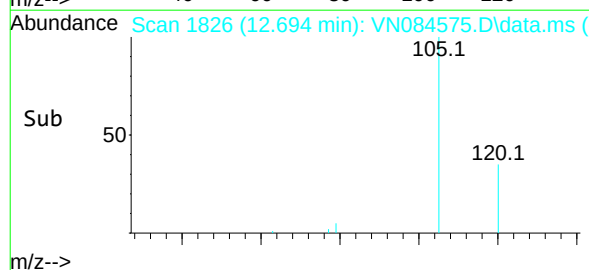
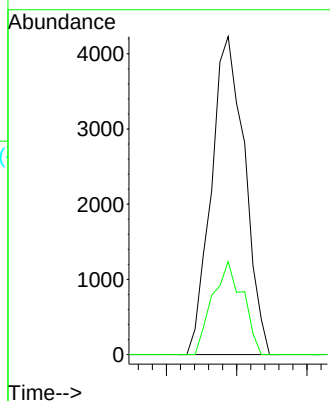
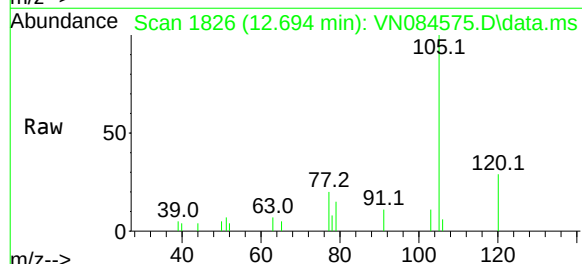
Acq: 30 Oct 2024 13:45

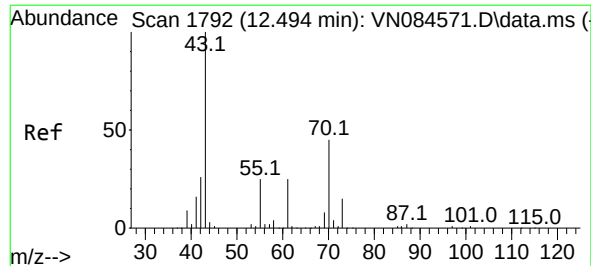
Tgt Ion:105 Resp: 6985

Ion Ratio Lower Upper

105 100

120 26.5 12.9 38.7





#74

N-amy1 acetate

Concen: 0.820 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

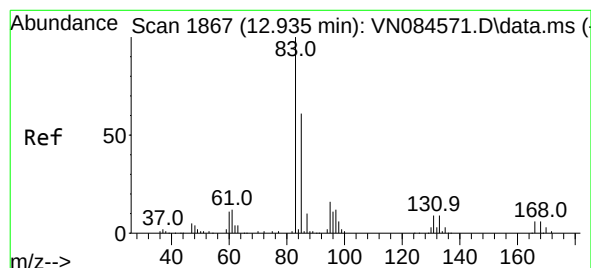
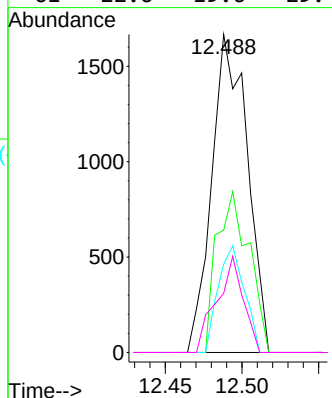
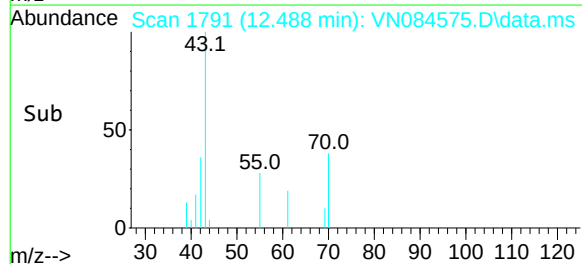
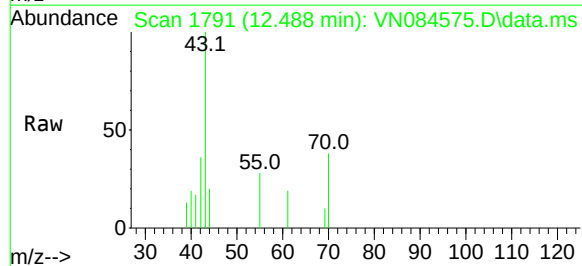
VSTDIC001

Tgt Ion: 43	Resp: 2680
Ion Ratio	Lower Upper
43 100	
70 45.9	34.4 51.6
55 24.7	19.6 29.4
61 22.6	19.6 29.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#75

1,1,2,2-Tetrachloroethane

Concen: 1.045 ug/l

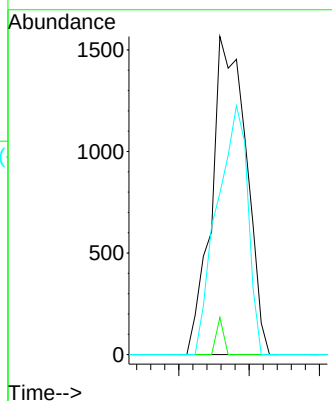
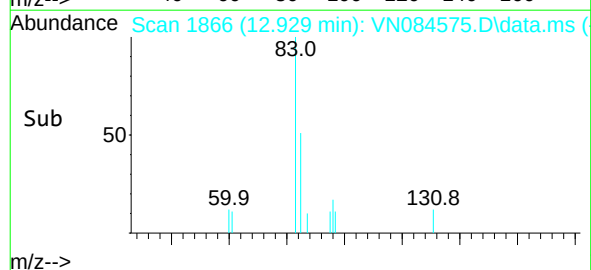
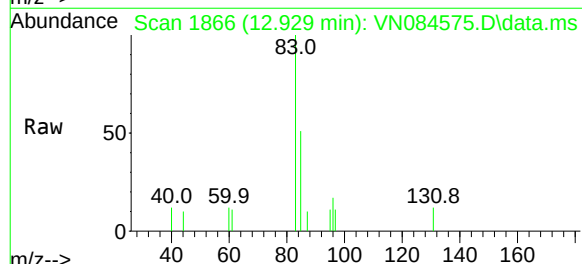
RT: 12.929 min Scan# 1866

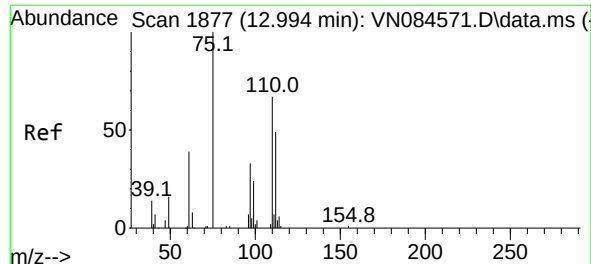
Delta R.T. -0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Tgt Ion: 83	Resp: 2678
Ion Ratio	Lower Upper
83 100	
131 2.4	4.9 14.7#
85 69.2	31.9 95.7





#76

1,2,3-Trichloropropane

Concen: 1.263 ug/l m

RT: 12.994 min Scan# 18

Delta R.T. 0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 75 Resp: 2731

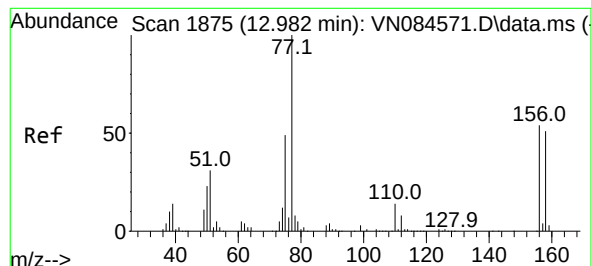
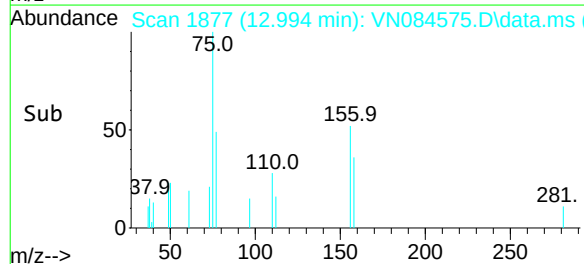
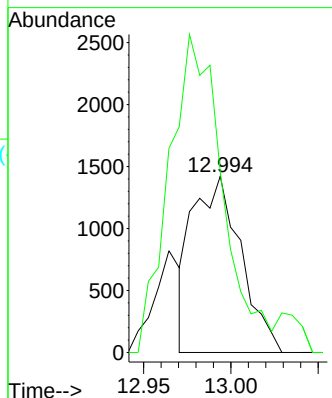
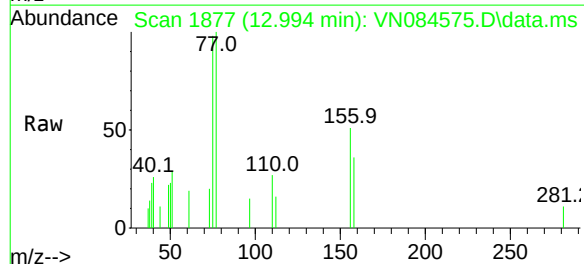
Ion Ratio Lower Upper

75 100

77 199.6 96.9 290.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#77

Bromobenzene

Concen: 1.182 ug/l

RT: 12.982 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

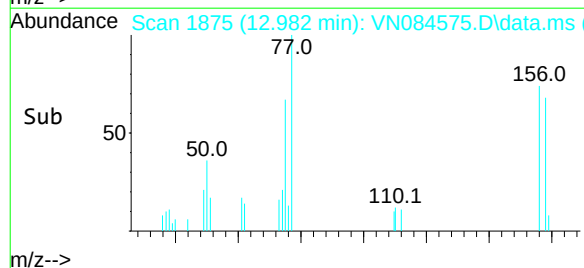
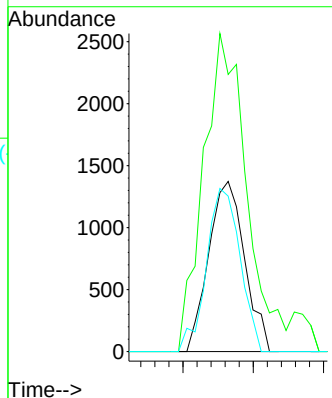
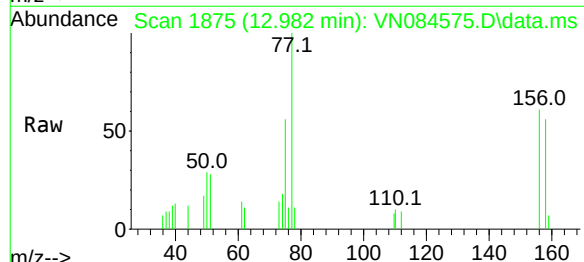
Tgt Ion:156 Resp: 2440

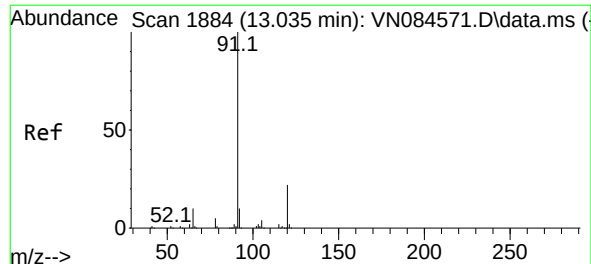
Ion Ratio Lower Upper

156 100

77 223.4 115.1 345.3

158 89.6 48.9 146.8





#78

n-propylbenzene

Concen: 0.882 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 91 Resp: 7935

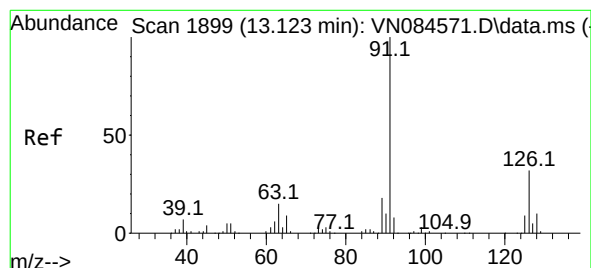
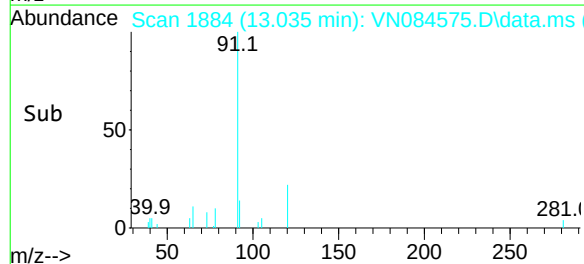
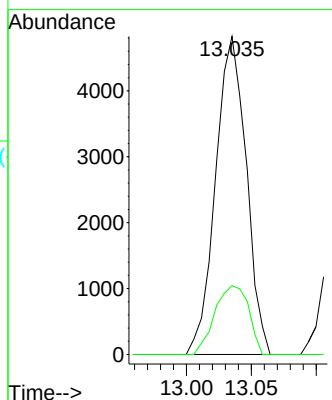
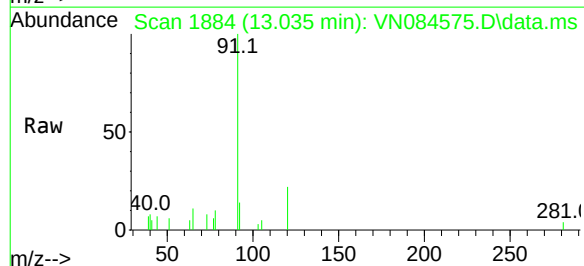
Ion Ratio Lower Upper

91 100

120 23.8 10.8 32.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#79

2-Chlorotoluene

Concen: 0.969 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN084575.D

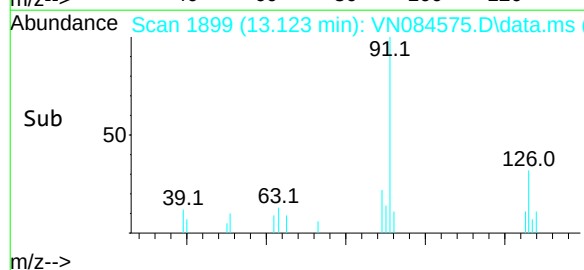
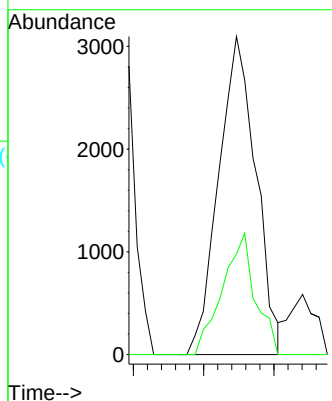
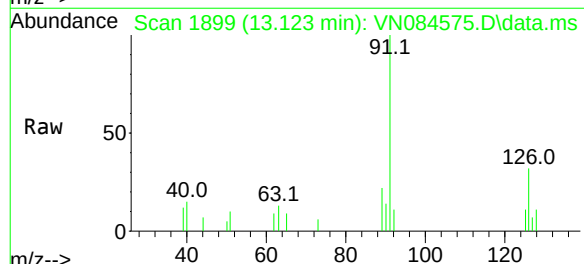
Acq: 30 Oct 2024 13:45

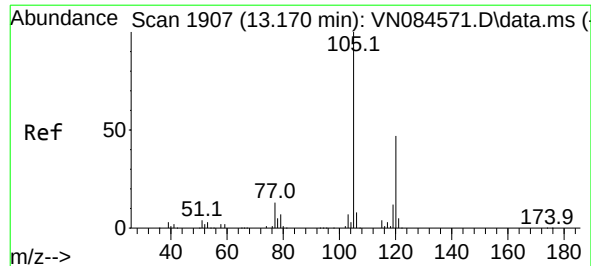
Tgt Ion: 91 Resp: 5699

Ion Ratio Lower Upper

91 100

126 33.7 15.7 47.1





#80

1,3,5-Trimethylbenzene

Concen: 0.833 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Tgt Ion: 105 Resp: 5298

Ion Ratio Lower Upper

105 100

120 49.0 23.7 71.1

Instrument :

MSVOA_N

ClientSampleId :

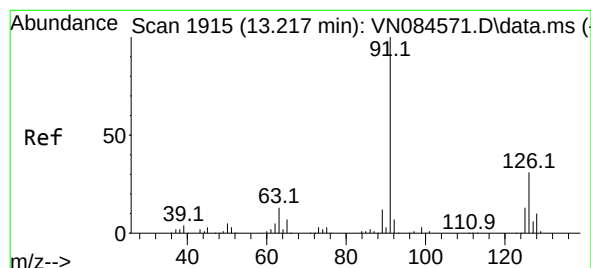
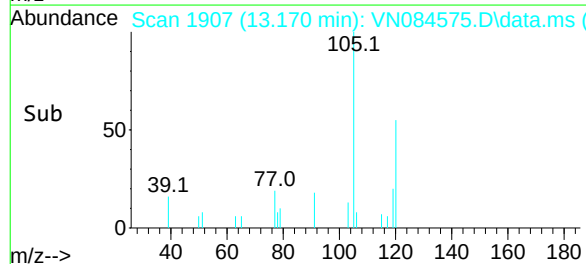
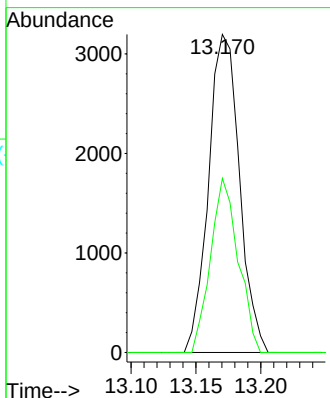
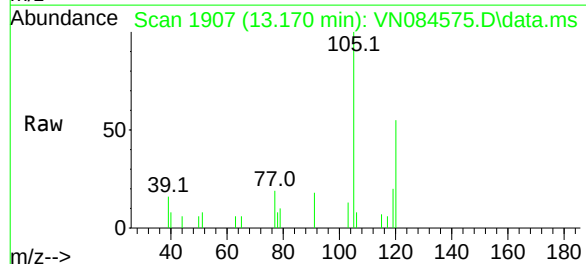
VSTDIC001

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#82

4-Chlorotoluene

Concen: 1.080 ug/l

RT: 13.223 min Scan# 1916

Delta R.T. 0.006 min

Lab File: VN084575.D

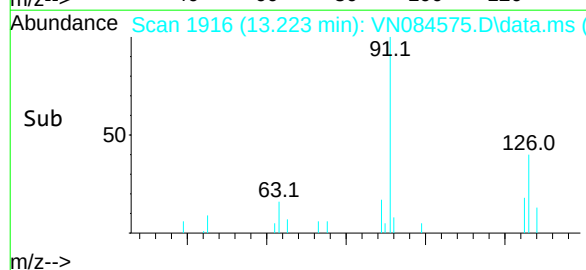
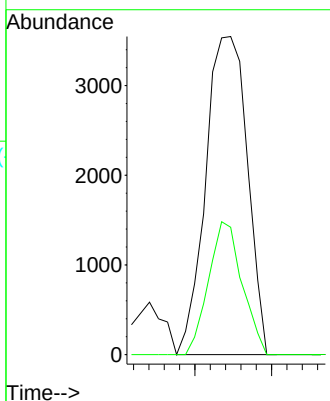
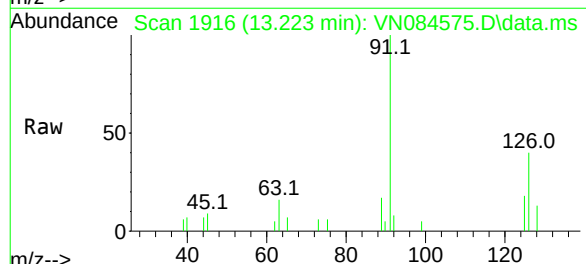
Acq: 30 Oct 2024 13:45

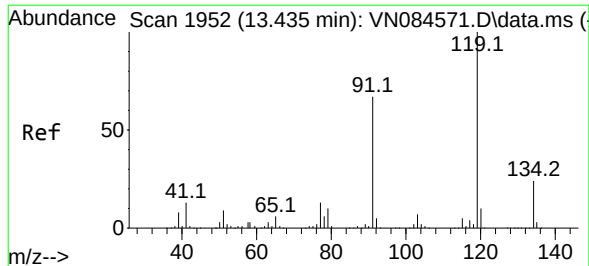
Tgt Ion: 91 Resp: 6682

Ion Ratio Lower Upper

91 100

126 33.7 15.7 47.1





#83

tert-Butylbenzene

Concen: 0.788 ug/l

RT: 13.435 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

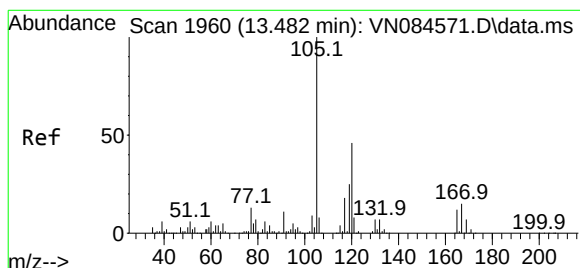
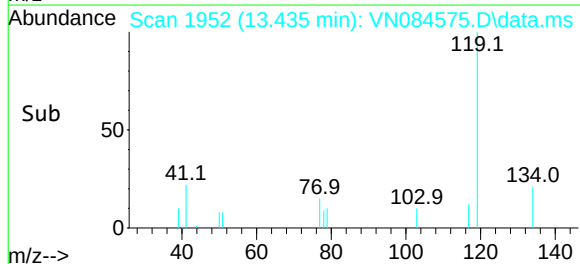
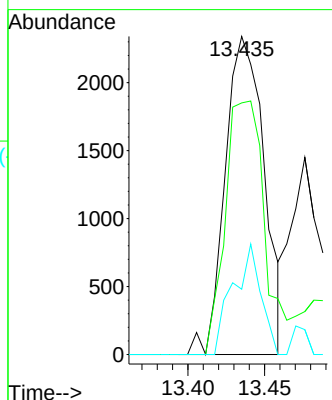
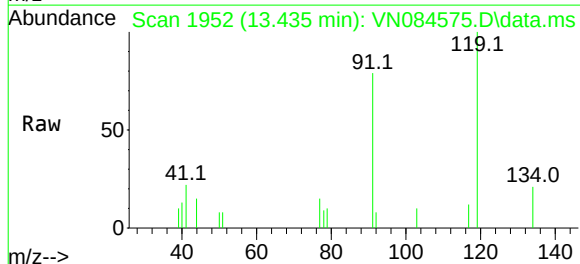
ClientSampleId :

VSTDIC001

Tgt Ion:	119	Resp:	4148
Ion	Ratio	Lower	Upper
119	100		
91	79.8	34.1	102.3
134	24.9	12.8	38.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#84

1,2,4-Trimethylbenzene

Concen: 0.860 ug/l

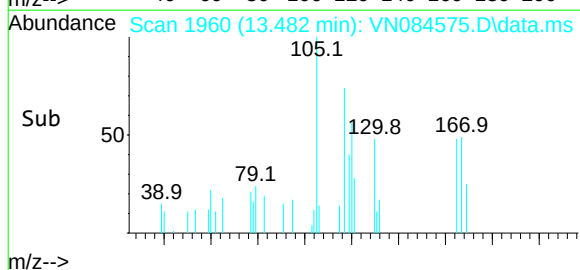
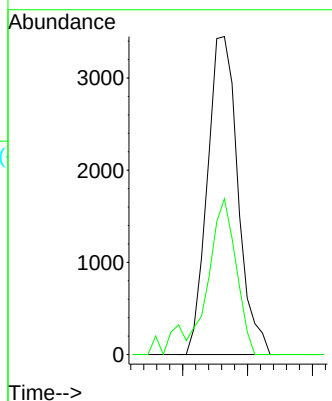
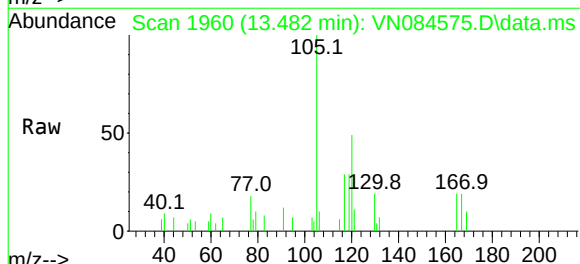
RT: 13.482 min Scan# 1960

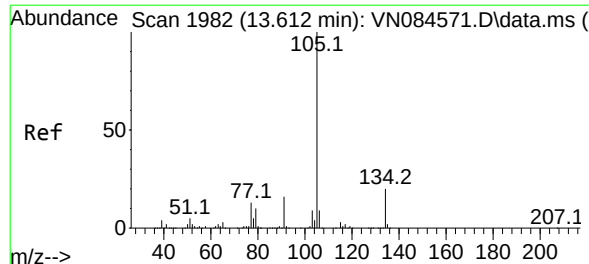
Delta R.T. -0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Tgt Ion:	105	Resp:	5651
Ion	Ratio	Lower	Upper
105	100		
120	43.2	22.3	66.8





#85

sec-Butylbenzene

Concen: 0.872 ug/l

RT: 13.617 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 6490

Ion Ratio Lower Upper

105 100

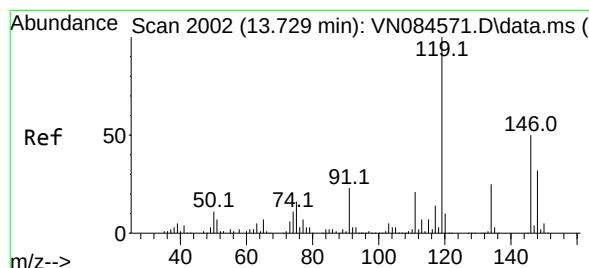
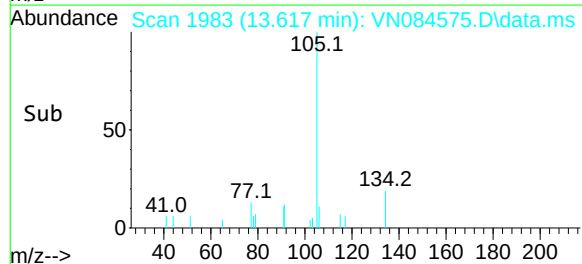
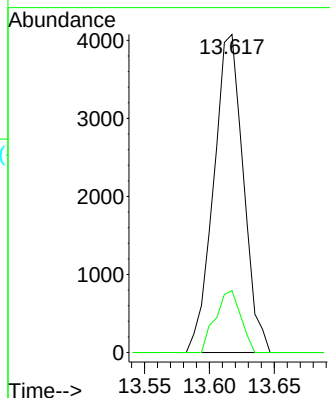
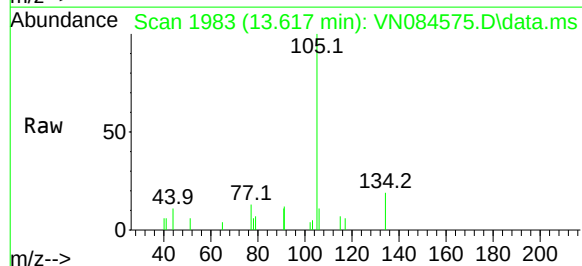
134 16.6 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#86

p-Isopropyltoluene

Concen: 0.796 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

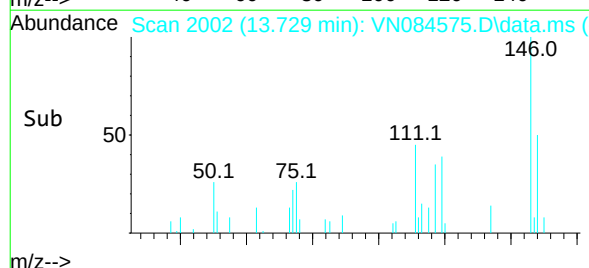
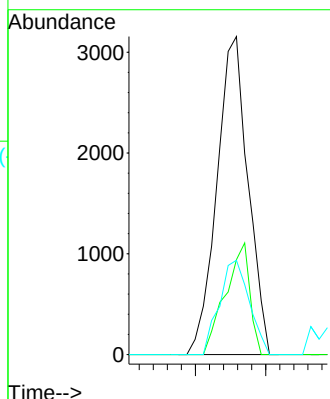
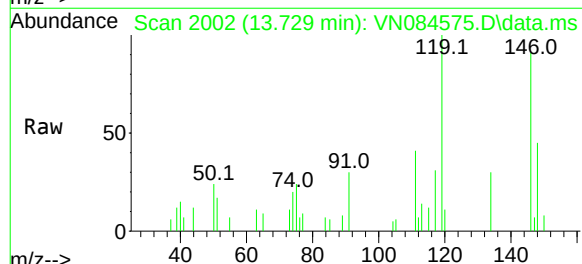
Tgt Ion:119 Resp: 4859

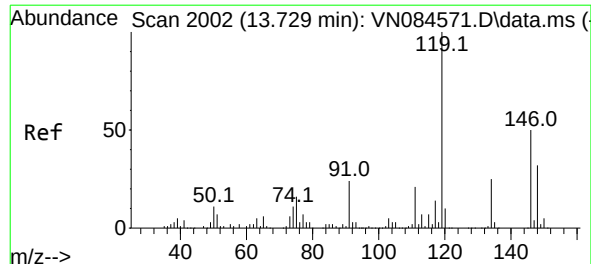
Ion Ratio Lower Upper

119 100

134 27.3 12.6 37.8

91 28.4 12.4 37.2





#87

1,3-Dichlorobenzene

Concen: 1.232 ug/l

RT: 13.729 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

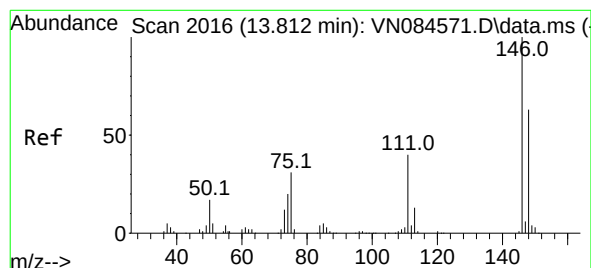
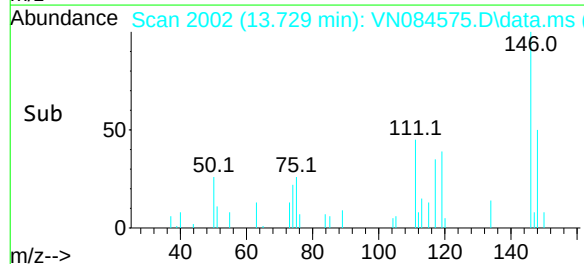
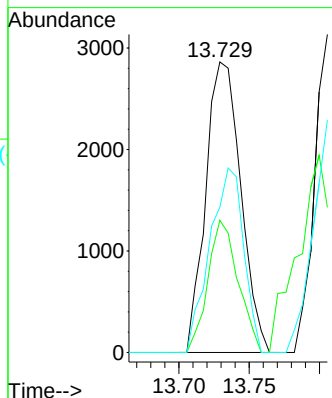
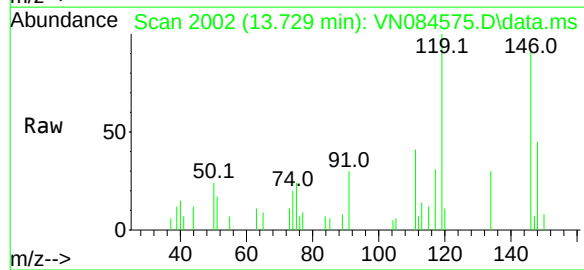
ClientSampleId :

VSTDICC001

Tgt	Ion	146	Resp:	4961
Ion	Ratio	Lower	Upper	
146	100			
111	39.3	21.8	65.3	
148	61.2	31.9	95.7	

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#88

1,4-Dichlorobenzene

Concen: 0.801 ug/l m

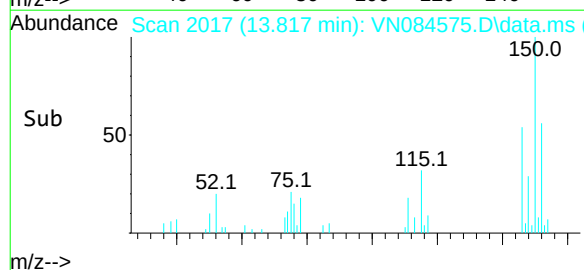
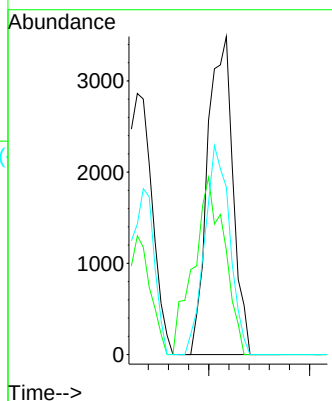
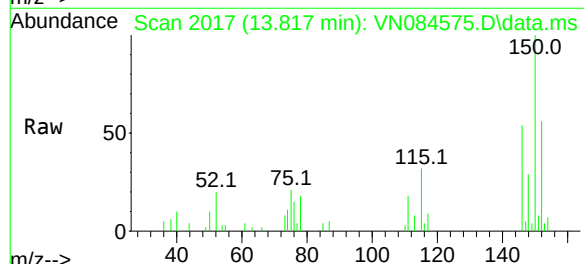
RT: 13.817 min Scan# 2017

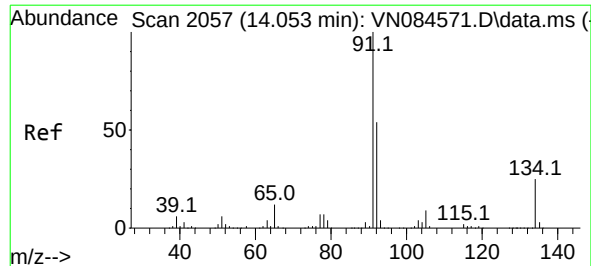
Delta R.T. 0.005 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Tgt	Ion	146	Resp:	6076
Ion	Ratio	Lower	Upper	
146	100			
111	32.1	21.2	63.6	
148	49.9	31.9	95.9	





#89

n-Butylbenzene

Concen: 1.055 ug/l

RT: 14.059 min Scan# 2058

Delta R.T. 0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

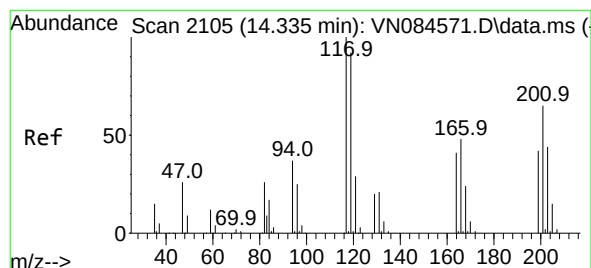
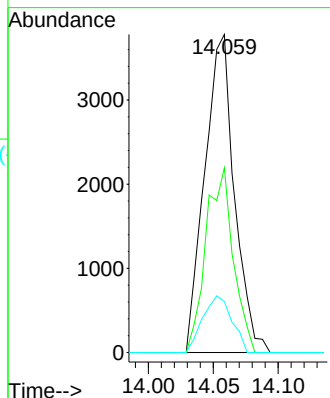
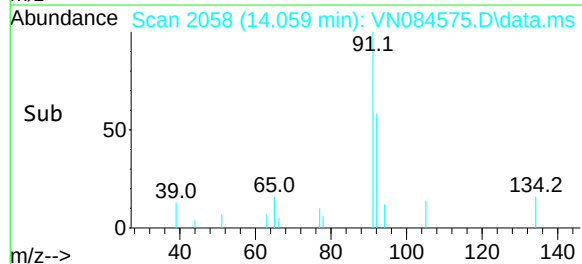
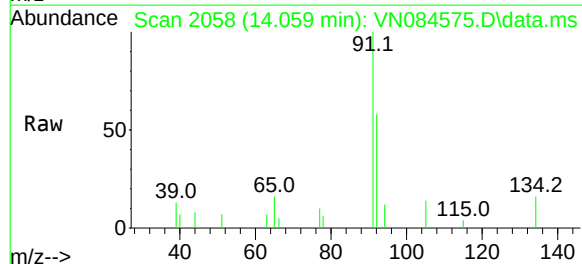
VSTDIC001

Tgt	Ion:	91	Resp:	6020
Ion	Ratio	Lower	Upper	
91	100			
92	53.4	26.6	79.7	
134	17.5	12.3	36.9	

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#90

Hexachloroethane

Concen: 1.097 ug/l

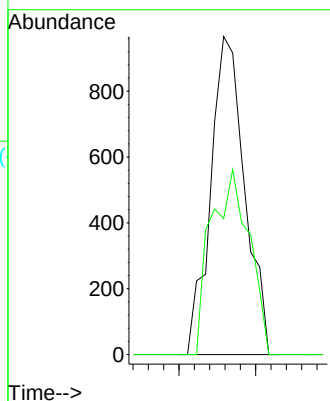
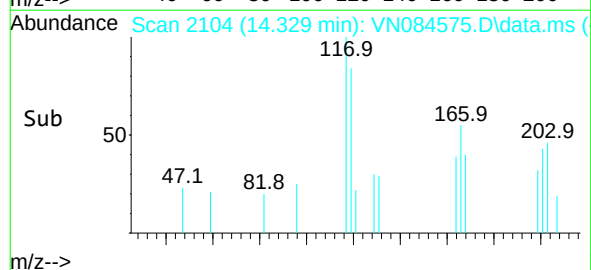
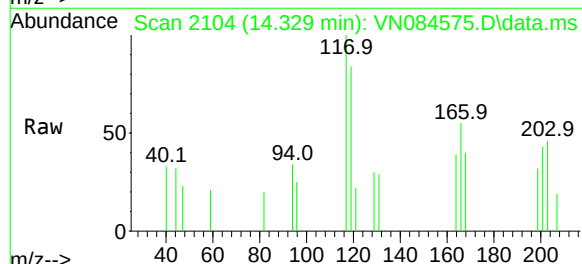
RT: 14.329 min Scan# 2104

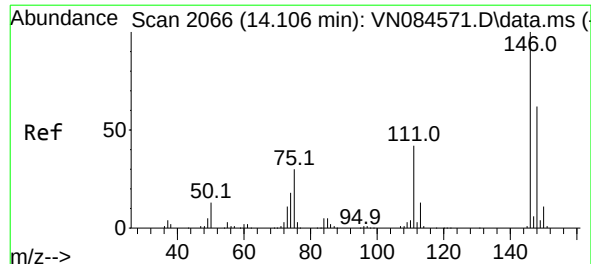
Delta R.T. -0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Tgt	Ion:	117	Resp:	1493
Ion	Ratio	Lower	Upper	
117	100			
201	65.1	34.4	103.2	





#91

1,2-Dichlorobenzene

Concen: 1.144 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

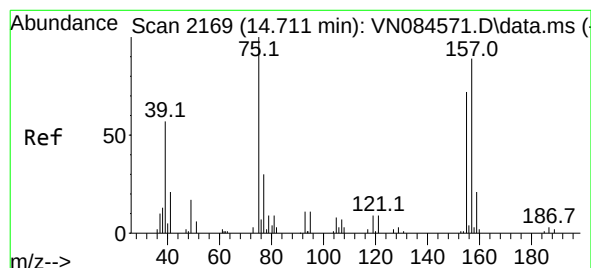
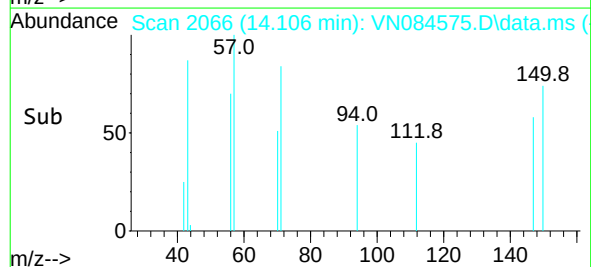
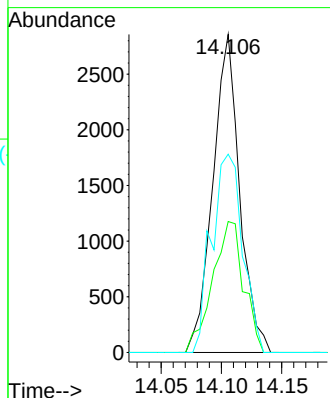
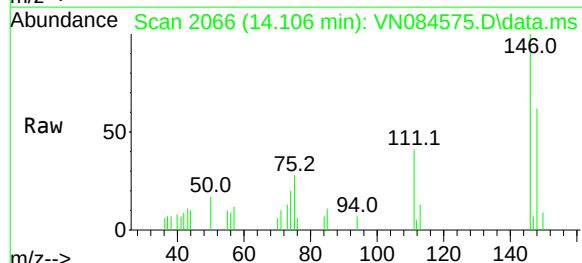
VSTDIC001

Tgt Ion:	146	Resp:	4428
Ion Ratio	Lower	Upper	
146	100		
111	47.8	22.0	66.0
148	72.3	32.1	96.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.146 ug/l

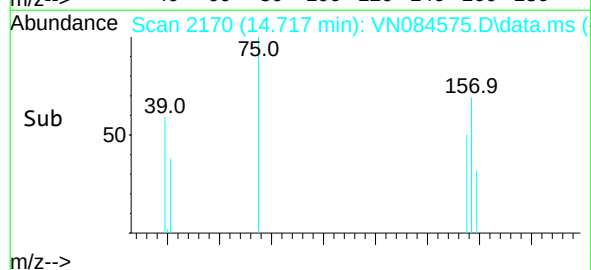
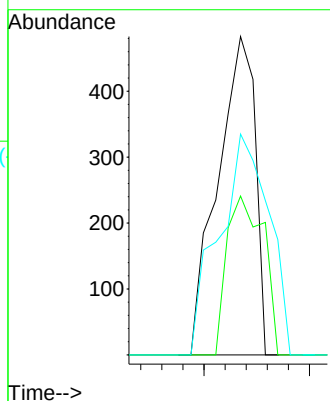
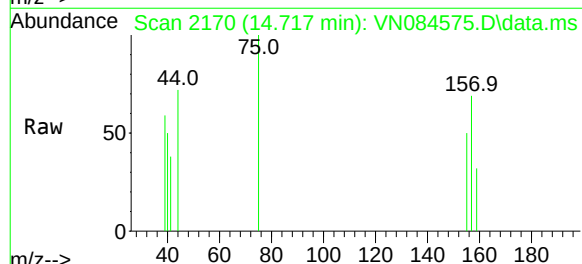
RT: 14.717 min Scan# 2170

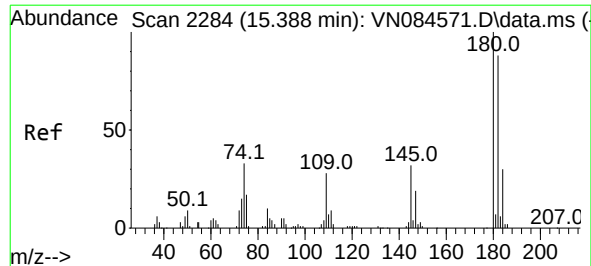
Delta R.T. -0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Tgt Ion:	75	Resp:	595
Ion Ratio	Lower	Upper	
75	100		
155	49.2	38.1	114.5
157	92.8	49.6	149.0





#93

1,2,4-Trichlorobenzene

Concen: 1.399 ug/l

RT: 15.394 min Scan# 2284

Delta R.T. 0.006 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

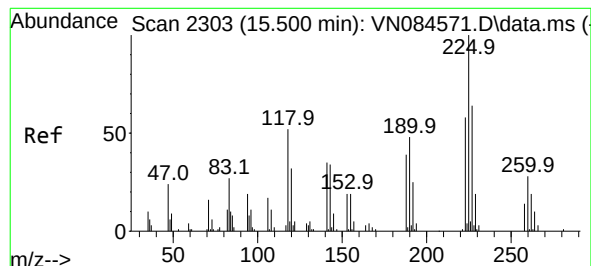
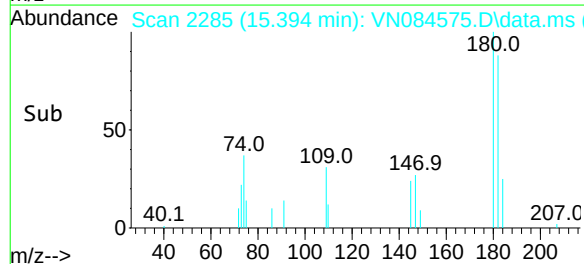
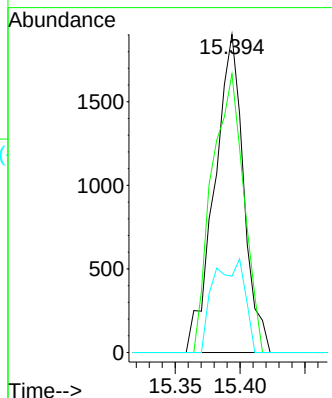
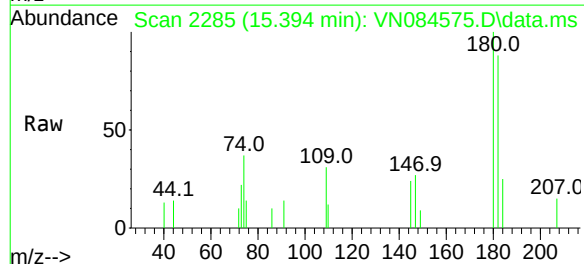
VSTDICC001

Tgt Ion:	180	Resp:	2964
Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.0	141.0
145	31.3	16.4	49.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#94

Hexachlorobutadiene

Concen: 1.298 ug/l

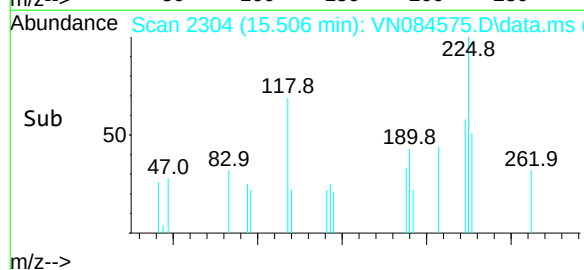
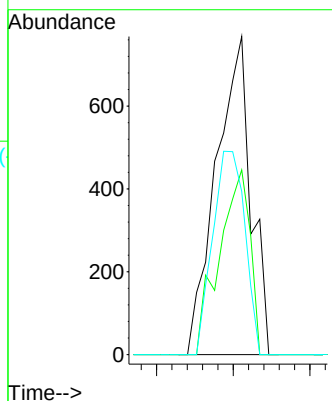
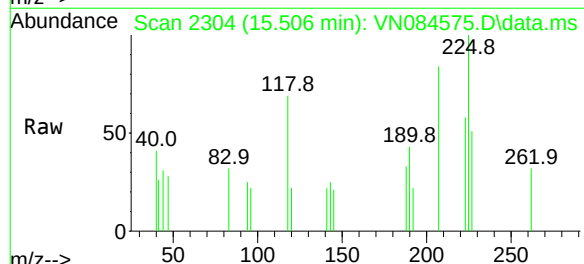
RT: 15.506 min Scan# 2304

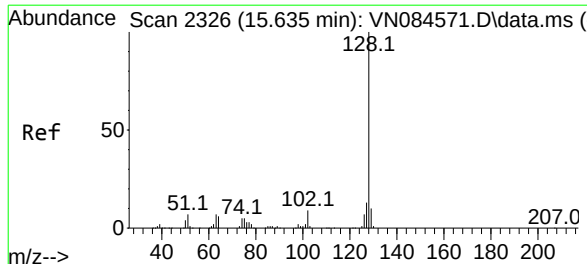
Delta R.T. 0.005 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Tgt Ion:	225	Resp:	1208
Ion	Ratio	Lower	Upper
225	100		
223	51.3	32.4	97.2
227	59.2	32.4	97.0





#95

Naphthalene

Concen: 1.159 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

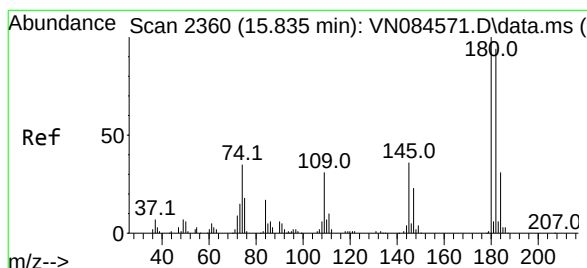
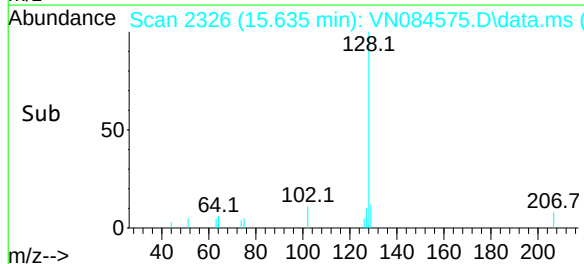
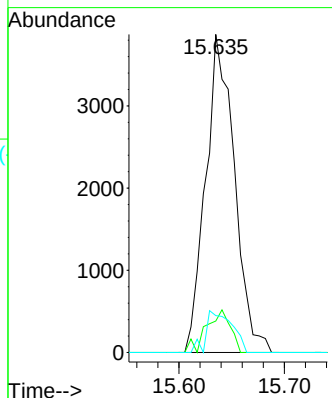
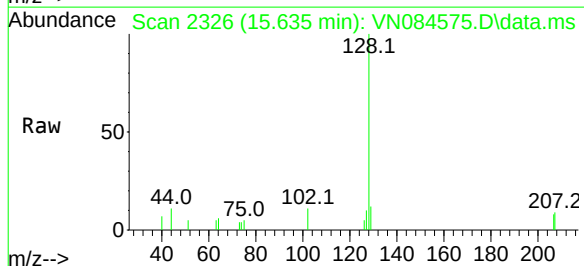
VSTDIC001

Tgt Ion:	128	Resp:	7352
Ion	Ratio	Lower	Upper
128	100		
127	11.1	10.5	15.7
129	11.8	8.7	13.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#96

1,2,3-Trichlorobenzene

Concen: 1.267 ug/l

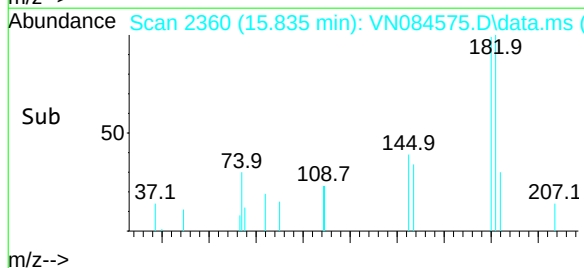
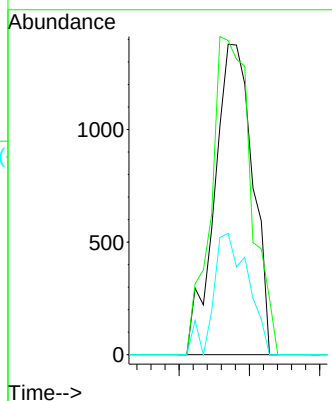
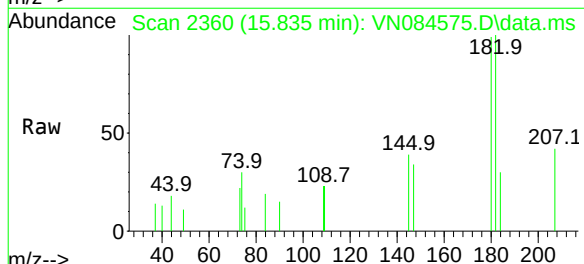
RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN084575.D

Acq: 30 Oct 2024 13:45

Tgt Ion:	180	Resp:	2605
Ion	Ratio	Lower	Upper
180	100		
182	107.5	48.2	144.6
145	35.7	17.3	51.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084577.D
 Acq On : 30 Oct 2024 15:06
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN103024

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:28:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:24:48 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	192202	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	324264	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	291586	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	142817	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	132029	47.560	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.120%
35) Dibromofluoromethane	8.165	113	104306	47.522	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.040%
50) Toluene-d8	10.565	98	390989	48.359	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	96.720%
62) 4-Bromofluorobenzene	12.847	95	144180	47.715	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	95.420%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	101605	45.985	ug/l	97
3) Chloromethane	2.359	50	118060	45.299	ug/l	99
4) Vinyl Chloride	2.512	62	110340	46.430	ug/l	95
5) Bromomethane	2.900	94	54764	43.494	ug/l	100
6) Chloroethane	3.071	64	68330	46.348	ug/l	93
7) Trichlorofluoromethane	3.471	101	178683	45.644	ug/l	98
8) Diethyl Ether	3.959	74	64407	46.640	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.359	101	101094	45.702	ug/l	98
10) Methyl Iodide	4.577	142	137594	46.542	ug/l	97
11) Tert butyl alcohol	5.536	59	80556	219.840	ug/l	99
12) 1,1-Dichloroethene	4.330	96	99235	45.338	ug/l	99
13) Acrolein	4.171	56	79788	218.362	ug/l	98
14) Allyl chloride	5.012	41	170293	47.975	ug/l	92
15) Acrylonitrile	5.718	53	251141	236.747	ug/l	100
16) Acetone	4.430	43	196070	244.445	ug/l	100
17) Carbon Disulfide	4.700	76	287697	42.682	ug/l	99
18) Methyl Acetate	5.024	43	132834	44.944	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	326067	48.603	ug/l	97
20) Methylene Chloride	5.265	84	111618	45.716	ug/l	91
21) trans-1,2-Dichloroethene	5.777	96	101181	45.019	ug/l	98
22) Diisopropyl ether	6.671	45	343763	48.739	ug/l	99
23) Vinyl Acetate	6.600	43	1204384	247.614	ug/l	99
24) 1,1-Dichloroethane	6.559	63	196518	46.408	ug/l	97
25) 2-Butanone	7.483	43	307765	237.635	ug/l	97
26) 2,2-Dichloropropane	7.488	77	166234	45.103	ug/l	97
27) cis-1,2-Dichloroethene	7.483	96	121280	46.214	ug/l	97
28) Bromochloromethane	7.806	49	92741	54.971	ug/l	97
29) Tetrahydrofuran	7.835	42	211210	245.822	ug/l	98
30) Chloroform	7.965	83	203935	47.316	ug/l	100
31) Cyclohexane	8.253	56	172671	45.053	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	183488	46.774	ug/l	98
36) 1,1-Dichloropropene	8.365	75	141152	46.370	ug/l	100
37) Ethyl Acetate	7.559	43	132993	48.154	ug/l	99
38) Carbon Tetrachloride	8.359	117	157005	46.145	ug/l	97
39) Methylcyclohexane	9.600	83	154743	49.969	ug/l	99
40) Benzene	8.606	78	452351	46.273	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084577.D
 Acq On : 30 Oct 2024 15:06
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN103024

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:28:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:24:48 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	77176	51.964	ug/l	99
42) 1,2-Dichloroethane	8.671	62	149173	47.118	ug/l	99
43) Isopropyl Acetate	8.688	43	232558	45.492	ug/l	98
44) Trichloroethene	9.347	130	100849	44.732	ug/l	99
45) 1,2-Dichloropropane	9.618	63	108229	47.196	ug/l	96
46) Dibromomethane	9.706	93	74292	45.911	ug/l	96
47) Bromodichloromethane	9.888	83	158814	46.560	ug/l #	99
48) Methyl methacrylate	9.676	41	109745	51.057	ug/l	97
49) 1,4-Dioxane	9.694	88	40527	1063.992	ug/l #	95
51) 4-Methyl-2-Pentanone	10.447	43	665397	252.729	ug/l	98
52) Toluene	10.629	92	277957	48.616	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	162100	45.911	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	175008	46.832	ug/l	99
55) 1,1,2-Trichloroethane	11.018	97	102553	47.618	ug/l	97
56) Ethyl methacrylate	10.871	69	164370	52.764	ug/l	98
57) 1,3-Dichloropropane	11.165	76	176546	47.765	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	408174	280.013	ug/l	98
59) 2-Hexanone	11.194	43	489776	255.570	ug/l	99
60) Dibromochloromethane	11.359	129	120465	49.079	ug/l	99
61) 1,2-Dibromoethane	11.465	107	102316	46.393	ug/l	100
64) Tetrachloroethene	11.100	164	88124	45.436	ug/l	98
65) Chlorobenzene	11.888	112	292713	44.872	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.959	131	105108	46.323	ug/l	99
67) Ethyl Benzene	11.965	91	526140	48.319	ug/l	99
68) m/p-Xylenes	12.070	106	408029	98.979	ug/l	99
69) o-Xylene	12.400	106	194895	50.538	ug/l	99
70) Styrene	12.412	104	333668	49.600	ug/l	98
71) Bromoform	12.576	173	78822	46.166	ug/l #	98
73) Isopropylbenzene	12.694	105	491033	49.063	ug/l	100
74) N-amyl acetate	12.494	43	209049	49.076	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	147181	44.058	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	122725m	42.988	ug/l	
77) Bromobenzene	12.976	156	119728	44.500	ug/l	97
78) n-propylbenzene	13.035	91	576495	49.156	ug/l	98
79) 2-Chlorotoluene	13.123	91	367294	47.930	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	420675	50.714	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	54512	45.300	ug/l	99
82) 4-Chlorotoluene	13.223	91	361596	44.837	ug/l	98
83) tert-Butylbenzene	13.435	119	361800	52.701	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	428517	50.053	ug/l	100
85) sec-Butylbenzene	13.617	105	483212	49.829	ug/l	100
86) p-Isopropyltoluene	13.729	119	410129	51.568	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	219757	41.852	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	221608	45.904	ug/l	99
89) n-Butylbenzene	14.053	91	341775	45.941	ug/l	100
90) Hexachloroethane	14.329	117	77324	43.597	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	220824	43.765	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	30895	45.651	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	111270	40.290	ug/l	98
94) Hexachlorobutadiene	15.500	225	47959	39.544	ug/l	97
95) Naphthalene	15.641	128	375360	45.408	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	108830	40.595	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

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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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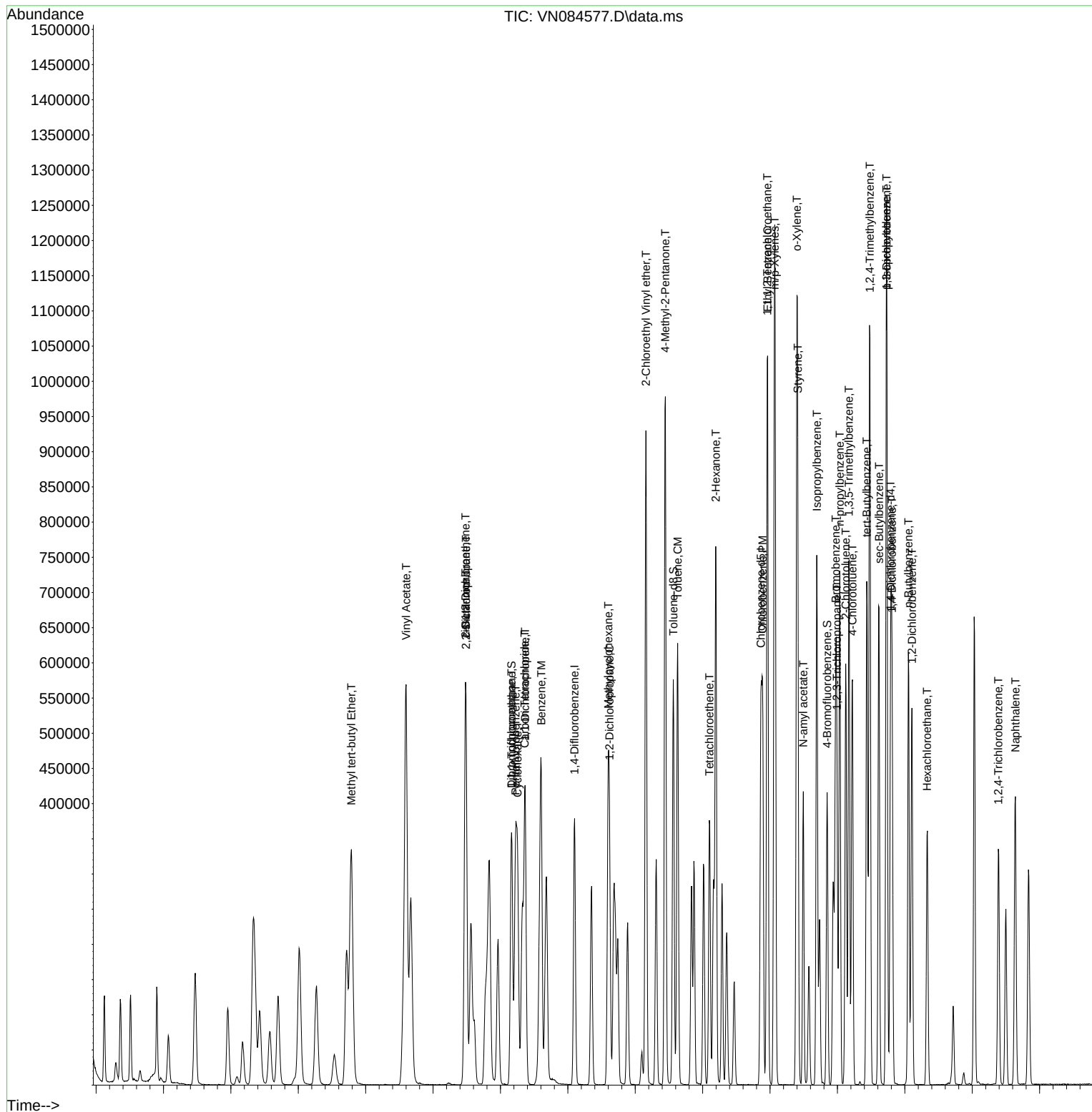
Quant Time: Oct 31 18:28:48 2024

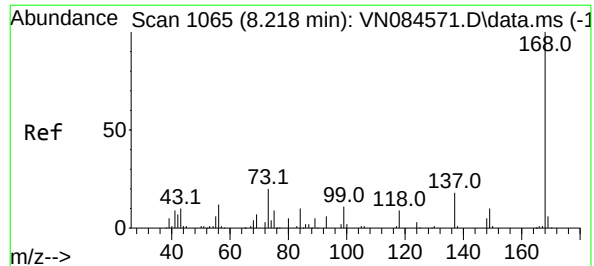
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M

Quant Title : SW846 8260

QLast Update : Thu Oct 31 18:24:48 2024

Response via : Initial Calibration





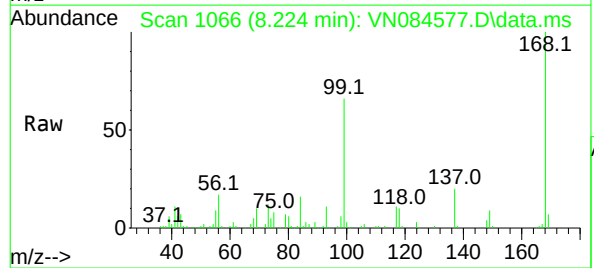
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084577.D
Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

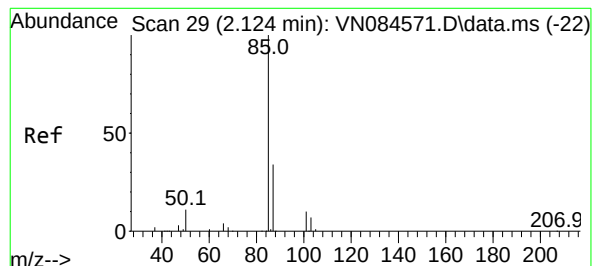
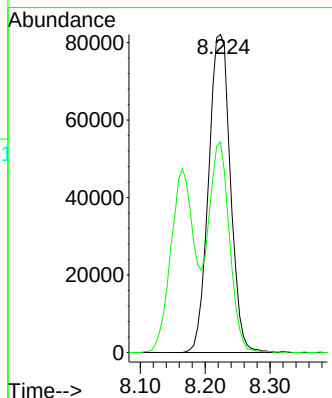
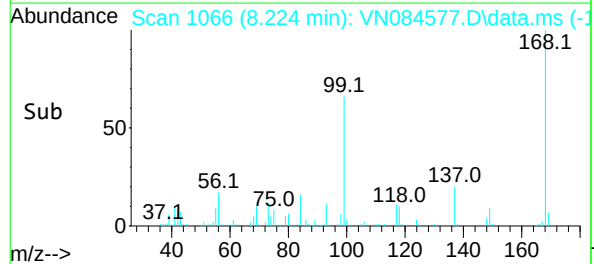
ICVVN103024



Tgt Ion: 168 Resp: 192202
Ion Ratio Lower Upper
168 100
99 66.0 54.2 81.2

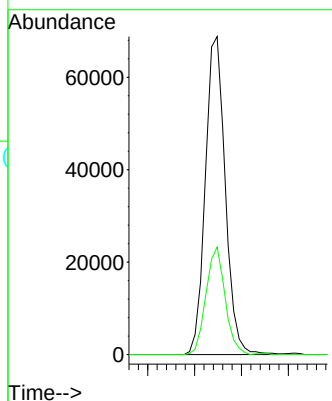
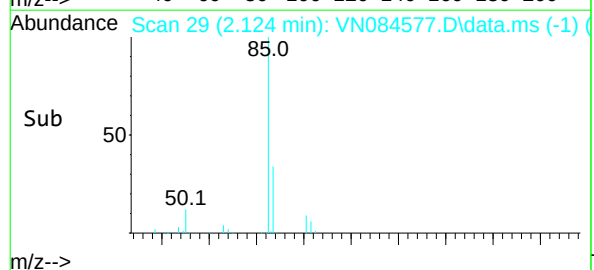
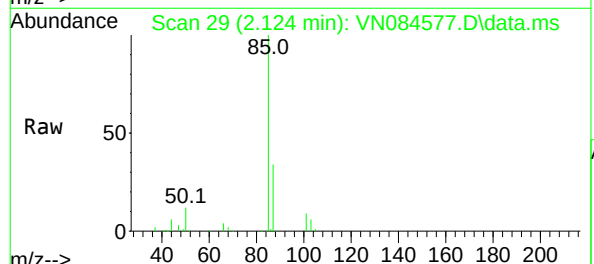
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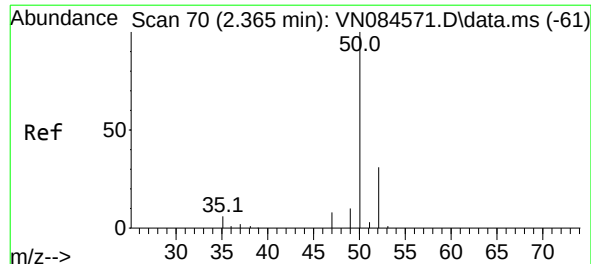
Reviewed By : Semsettin Yesilyurt 11/04/2024
Supervised By : Mahesh Dadoda 11/04/2024



#2
Dichlorodifluoromethane
Concen: 45.985 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN084577.D
Acq: 30 Oct 2024 15:06

Tgt Ion: 85 Resp: 101605
Ion Ratio Lower Upper
85 100
87 33.8 17.6 52.9





#3

Chloromethane

Concen: 45.299 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion: 50 Resp: 118060

Ion Ratio Lower Upper

50 100

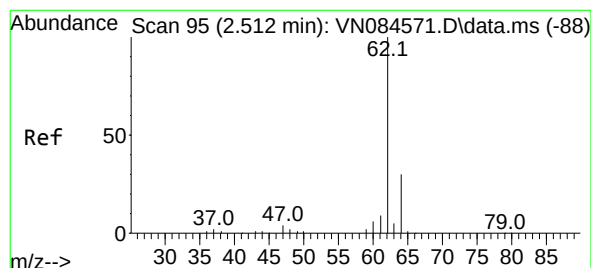
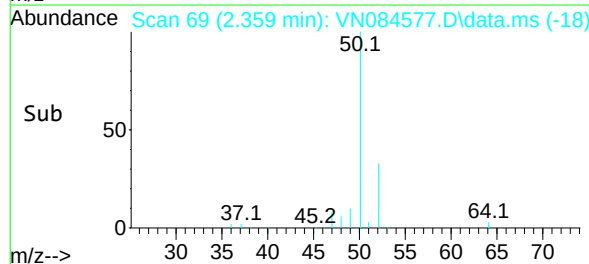
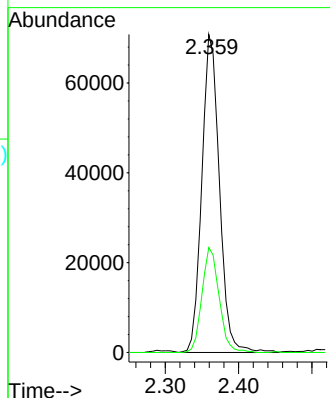
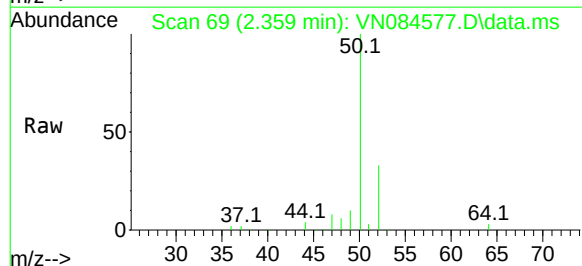
52 33.0 26.8 40.2

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#4

Vinyl Chloride

Concen: 46.430 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.006 min

Lab File: VN084577.D

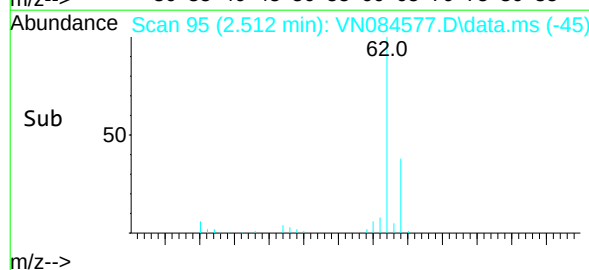
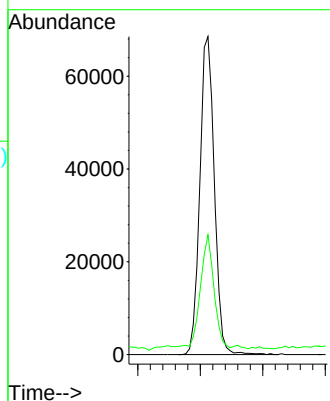
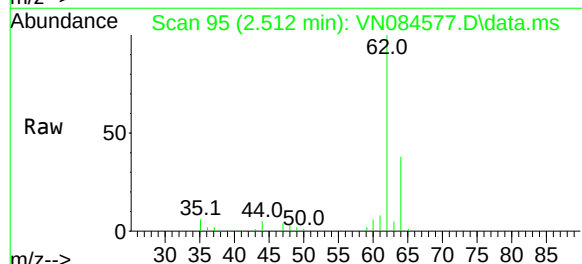
Acq: 30 Oct 2024 15:06

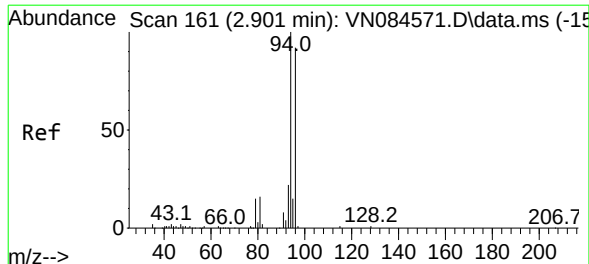
Tgt Ion: 62 Resp: 110340

Ion Ratio Lower Upper

62 100

64 35.6 26.2 39.4





#5

Bromomethane

Concen: 43.494 ug/l

RT: 2.900 min Scan# 161

Delta R.T. -0.053 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion: 94 Resp: 54764

Ion Ratio Lower Upper

94 100

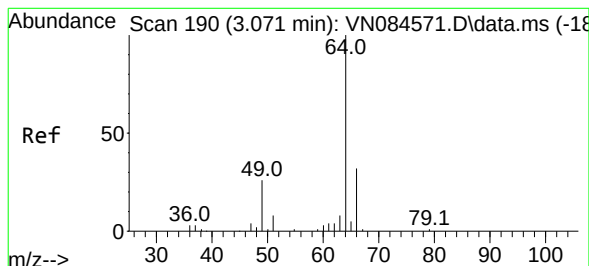
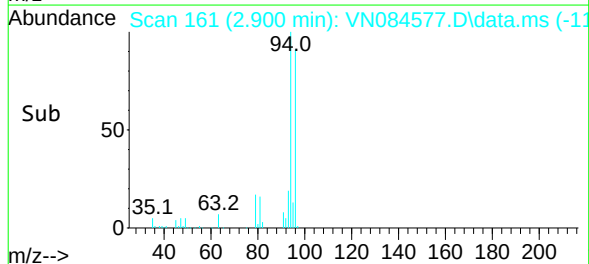
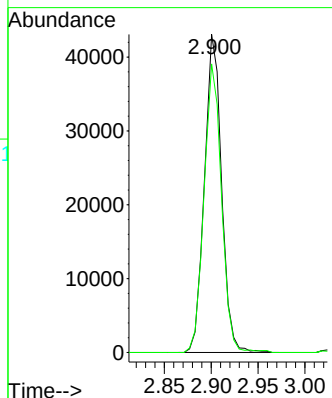
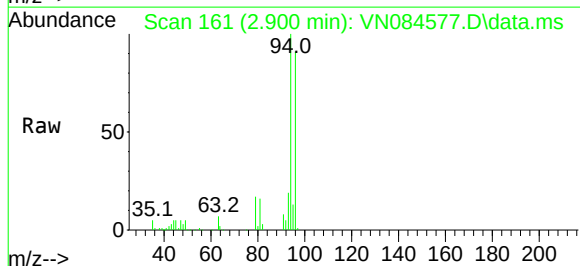
96 90.7 72.9 109.3

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#6

Chloroethane

Concen: 46.348 ug/l

RT: 3.071 min Scan# 190

Delta R.T. -0.047 min

Lab File: VN084577.D

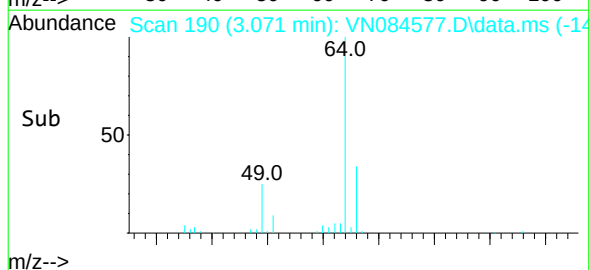
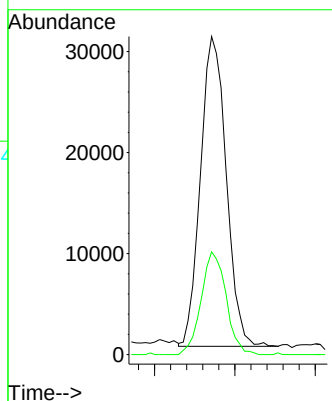
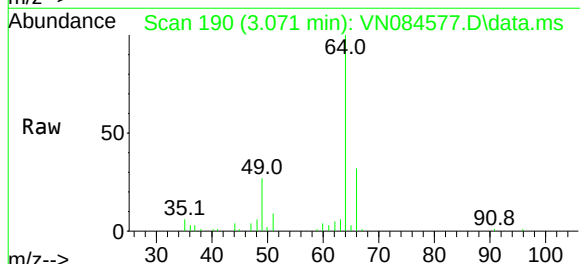
Acq: 30 Oct 2024 15:06

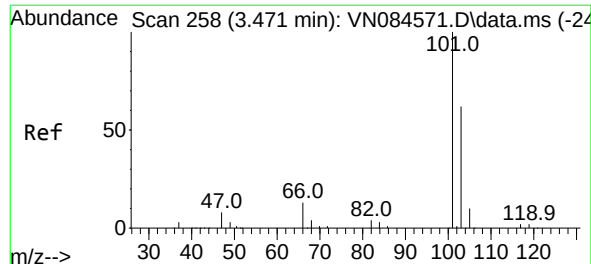
Tgt Ion: 64 Resp: 68330

Ion Ratio Lower Upper

64 100

66 33.2 23.5 35.3





#7

Trichlorofluoromethane

Concen: 45.644 ug/l

RT: 3.471 min Scan# 258

Delta R.T. -0.024 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion:101 Resp: 178683

Ion Ratio Lower Upper

101 100

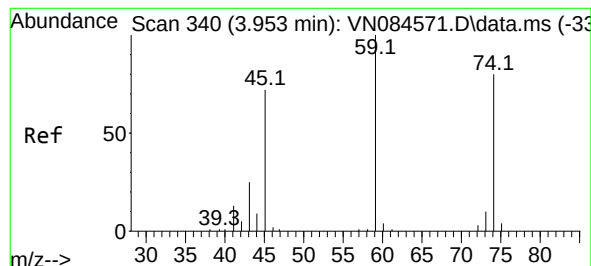
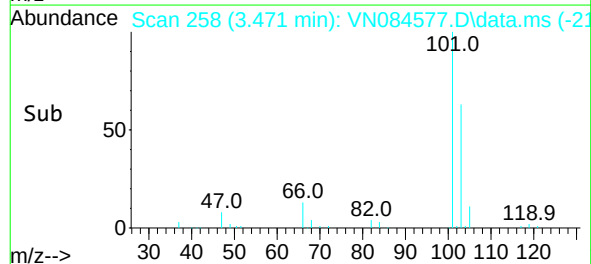
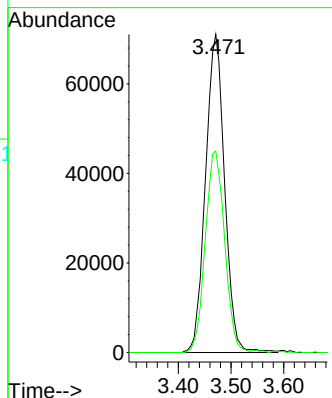
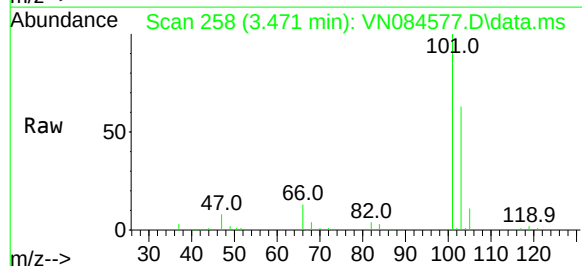
103 63.3 51.8 77.6

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#8

Diethyl Ether

Concen: 46.640 ug/l

RT: 3.959 min Scan# 341

Delta R.T. 0.000 min

Lab File: VN084577.D

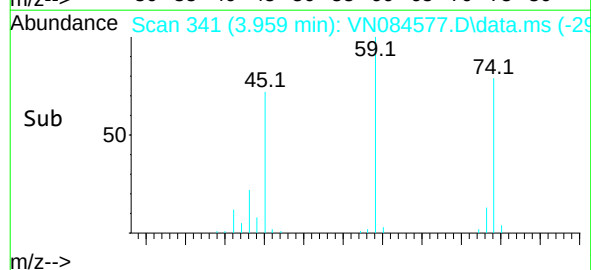
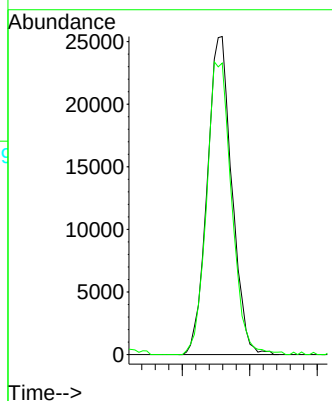
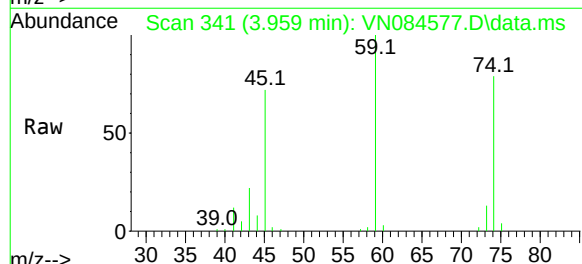
Acq: 30 Oct 2024 15:06

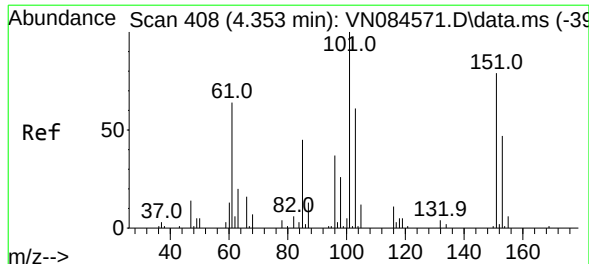
Tgt Ion: 74 Resp: 64407

Ion Ratio Lower Upper

74 100

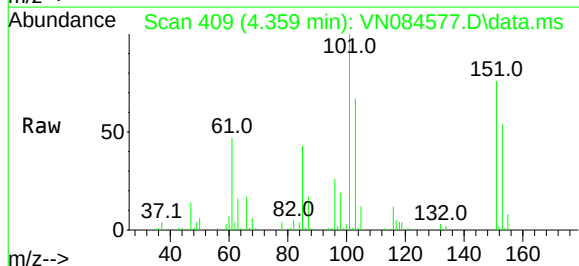
45 93.7 47.7 143.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.702 ug/l
RT: 4.359 min Scan# 408
Delta R.T. -0.012 min
Lab File: VN084577.D
Acq: 30 Oct 2024 15:06

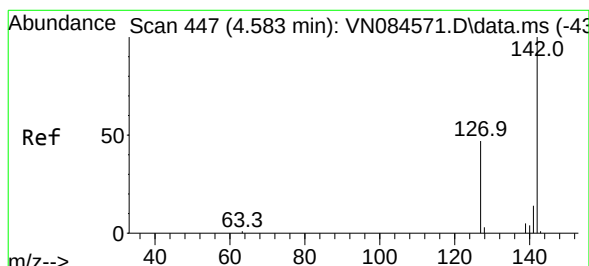
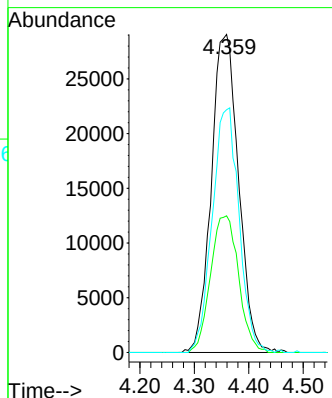
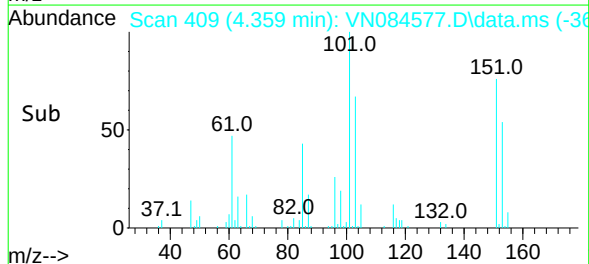
Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024



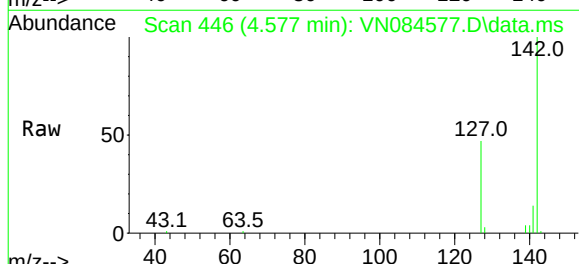
Tgt Ion:101 Resp: 101094
Ion Ratio Lower Upper
101 100
85 44.2 36.2 54.4
151 75.7 59.3 88.9

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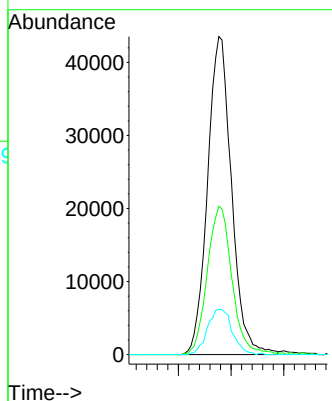
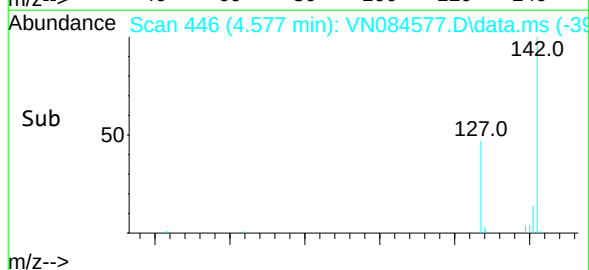
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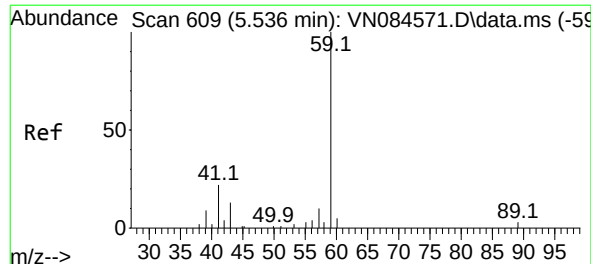


#10
Methyl Iodide
Concen: 46.542 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.018 min
Lab File: VN084577.D
Acq: 30 Oct 2024 15:06



Tgt Ion:142 Resp: 137594
Ion Ratio Lower Upper
142 100
127 46.6 35.3 52.9
141 14.2 11.0 16.6





#11

Tert butyl alcohol

Concen: 219.840 ug/l

RT: 5.536 min Scan# 609

Delta R.T. 0.012 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion: 59 Resp: 80556

Ion Ratio Lower Upper

59 100

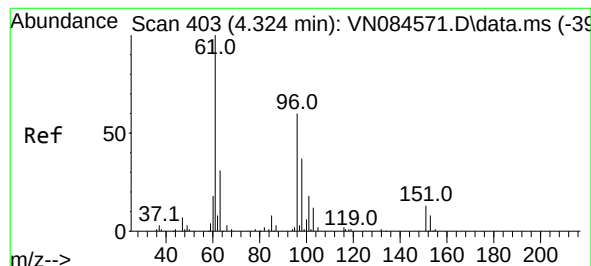
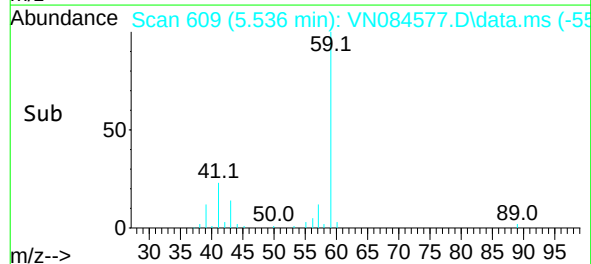
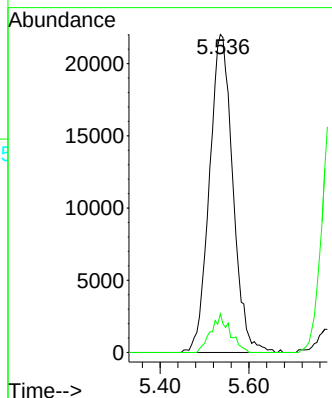
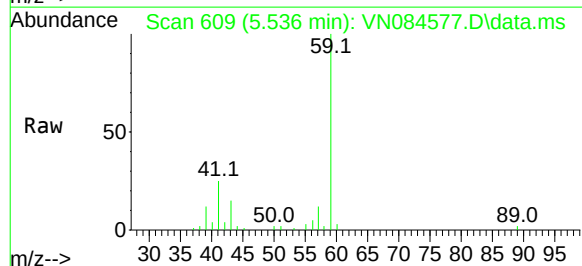
57 9.8 8.2 12.2

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#12

1,1-Dichloroethene

Concen: 45.338 ug/l

RT: 4.330 min Scan# 404

Delta R.T. -0.012 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

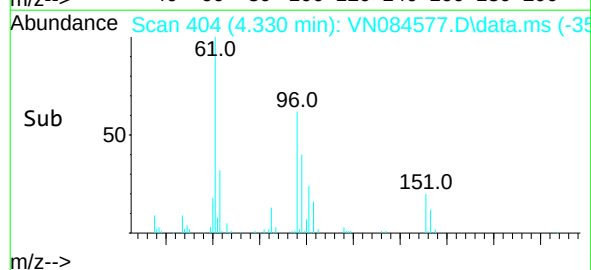
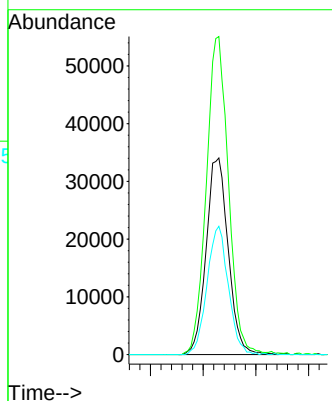
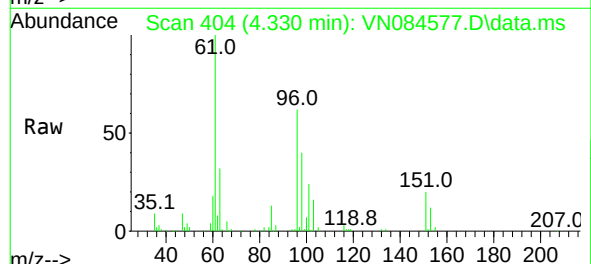
Tgt Ion: 96 Resp: 99235

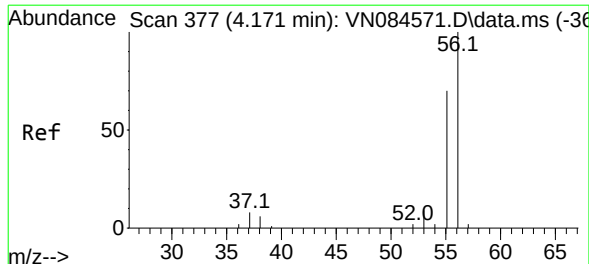
Ion Ratio Lower Upper

96 100

61 161.8 128.6 192.8

98 65.3 51.7 77.5





#13

Acrolein

Concen: 218.362 ug/l

RT: 4.171 min Scan# 377

Delta R.T. -0.006 min

Lab File: VN084577.D

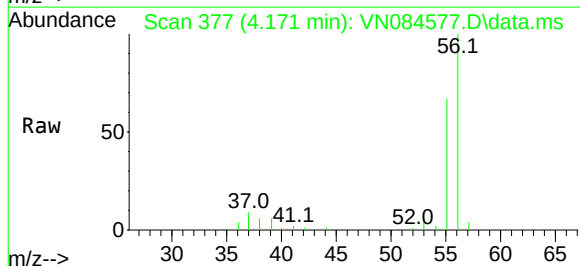
Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024



Tgt Ion: 56 Resp: 79788

Ion Ratio Lower Upper

56 100

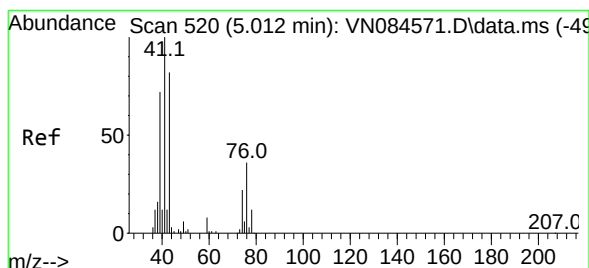
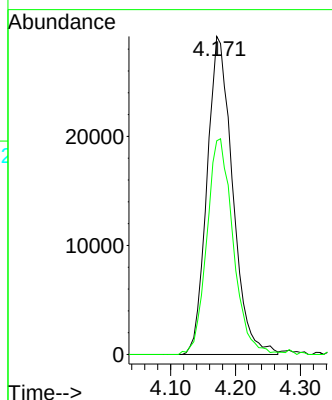
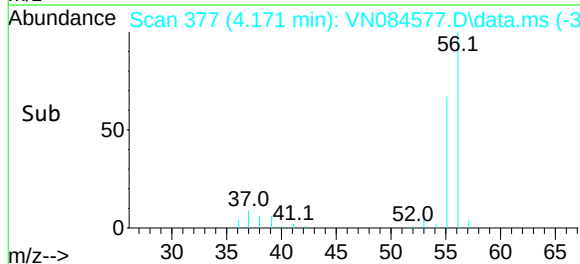
55 69.8 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#14

Allyl chloride

Concen: 47.975 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.012 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

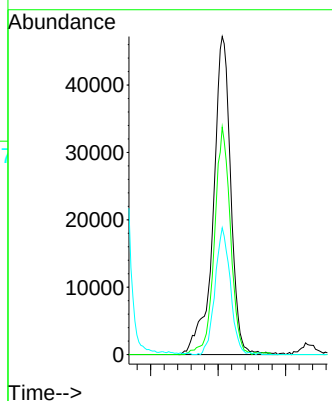
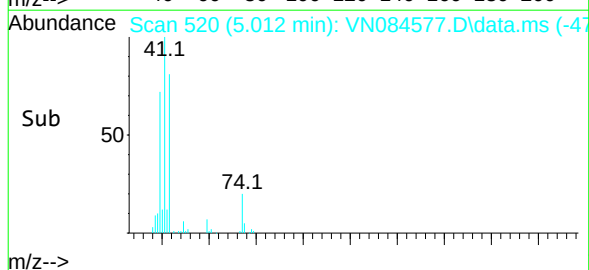
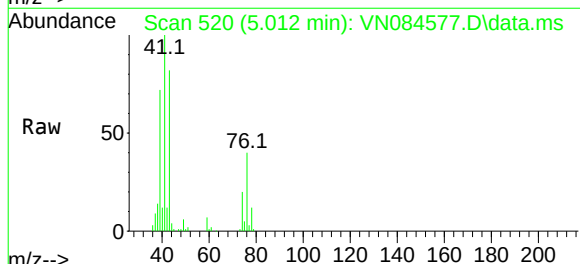
Tgt Ion: 41 Resp: 170293

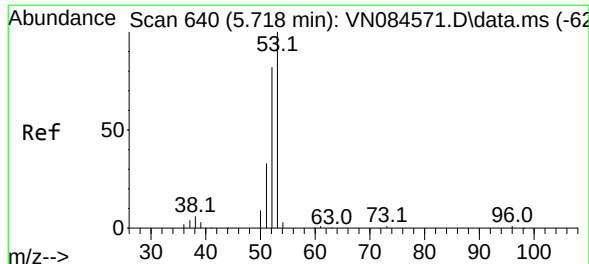
Ion Ratio Lower Upper

41 100

39 65.0 59.0 88.6

76 34.8 29.8 44.6





#15

Acrylonitrile

Concen: 236.747 ug/l

RT: 5.718 min Scan# 640

Delta R.T. -0.000 min

Lab File: VN084577.D

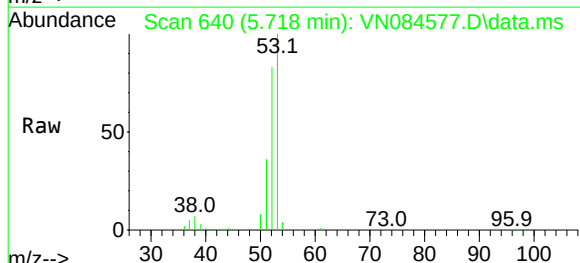
Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

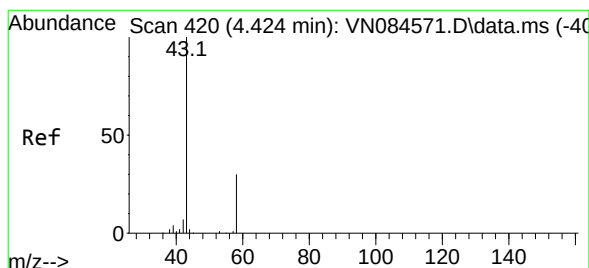
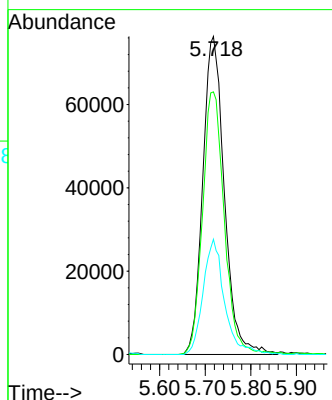
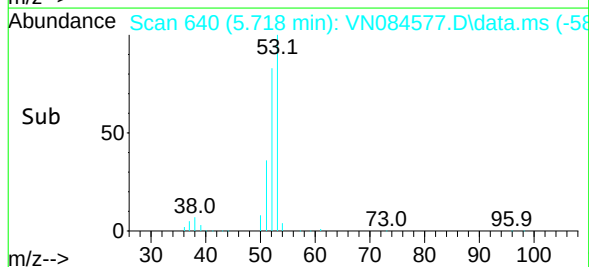
ICVVN103024



Tgt Ion:	53	Resp:	251141
Ion	Ratio	Lower	Upper
53	100		
52	83.3	66.2	99.4
51	35.9	28.8	43.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#16

Acetone

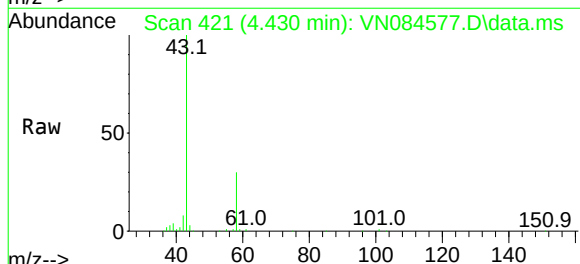
Concen: 244.445 ug/l

RT: 4.430 min Scan# 421

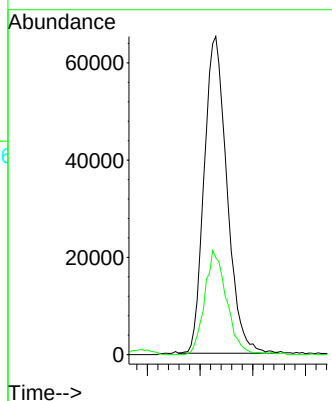
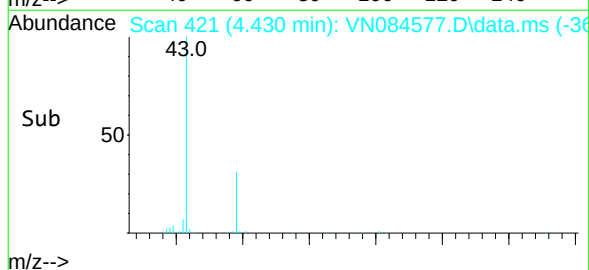
Delta R.T. 0.006 min

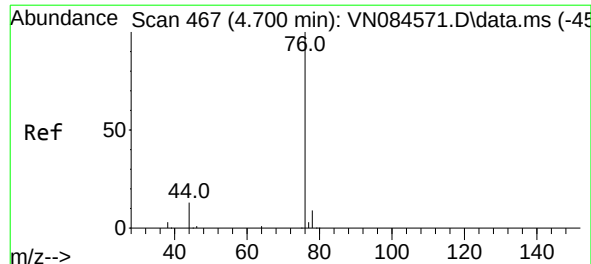
Lab File: VN084577.D

Acq: 30 Oct 2024 15:06



Tgt Ion:	43	Resp:	196070
Ion	Ratio	Lower	Upper
43	100		
58	30.6	24.4	36.6





#17

Carbon Disulfide

Concen: 42.682 ug/l

RT: 4.700 min Scan# 467

Delta R.T. -0.012 min

Lab File: VN084577.D

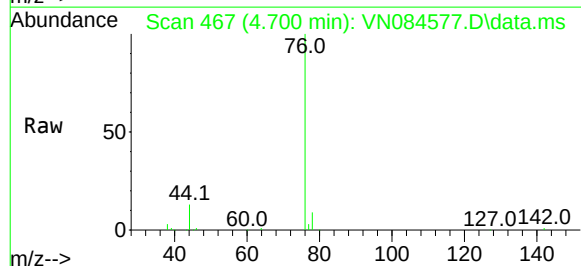
Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024



Tgt Ion: 76 Resp: 287697

Ion Ratio Lower Upper

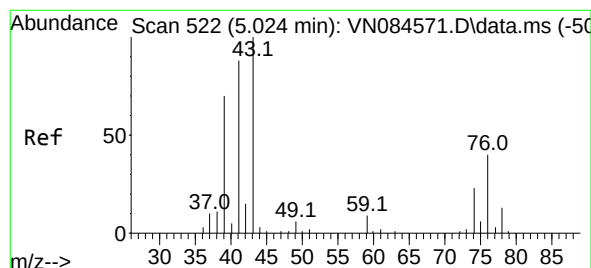
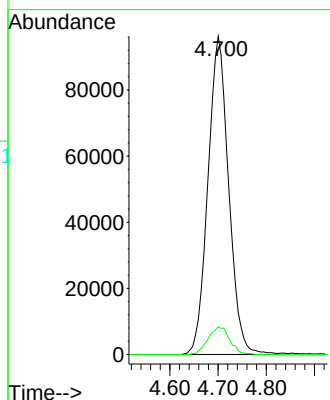
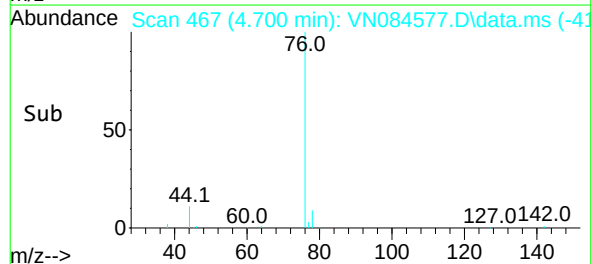
76 100

78 8.7 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#18

Methyl Acetate

Concen: 44.944 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN084577.D

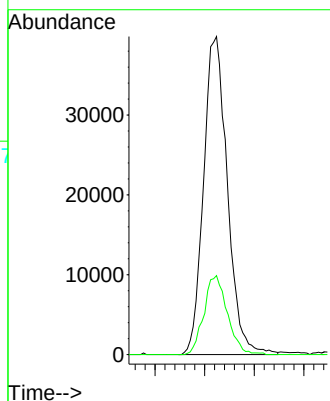
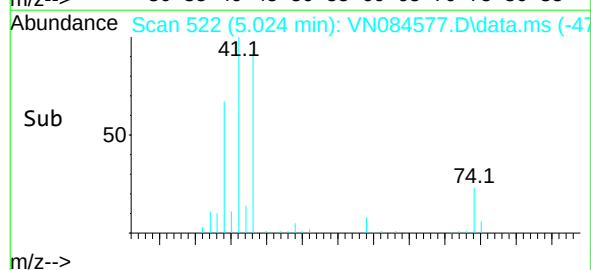
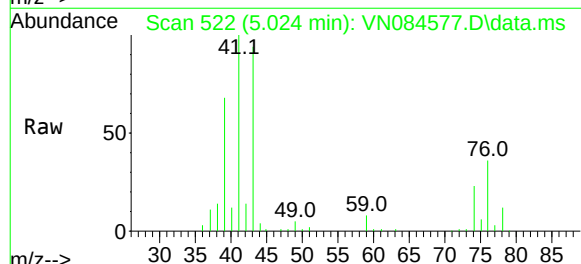
Acq: 30 Oct 2024 15:06

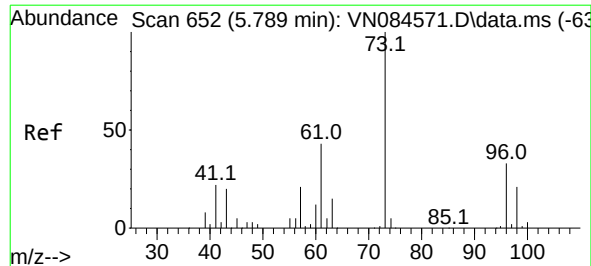
Tgt Ion: 43 Resp: 132834

Ion Ratio Lower Upper

43 100

74 24.4 19.2 28.8





#19

Methyl tert-butyl Ether

Concen: 48.603 ug/l

RT: 5.789 min Scan# 65

Delta R.T. -0.006 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion: 73 Resp: 326067

Ion Ratio Lower Upper

73 100

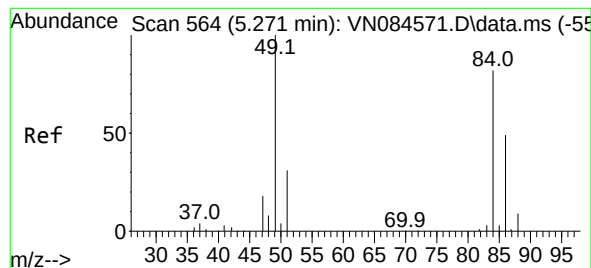
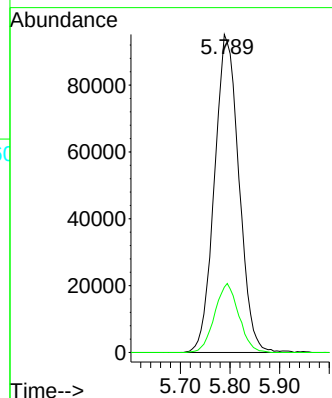
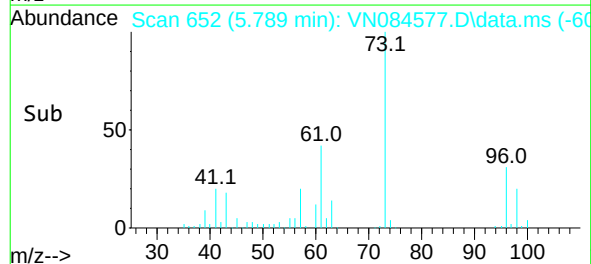
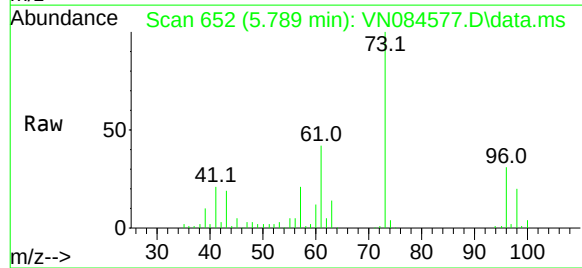
57 20.5 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#20

Methylene Chloride

Concen: 45.716 ug/l

RT: 5.265 min Scan# 563

Delta R.T. -0.012 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Tgt Ion: 84 Resp: 111618

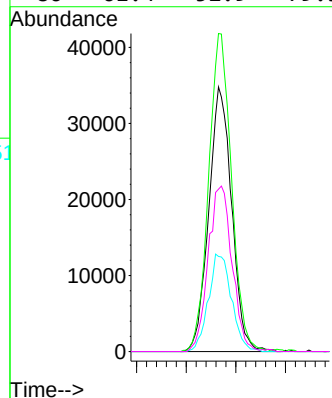
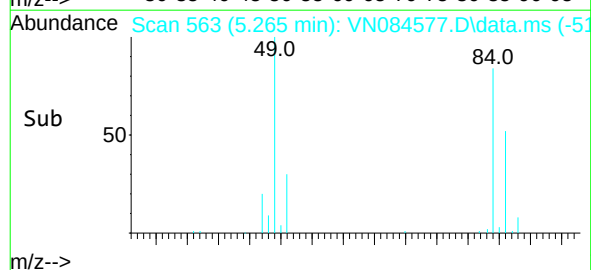
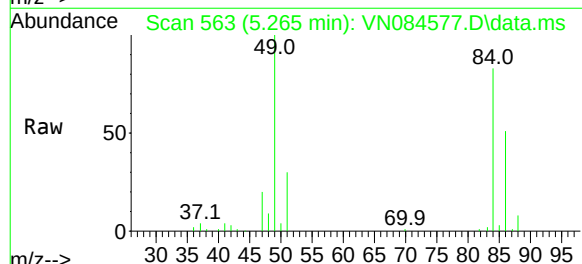
Ion Ratio Lower Upper

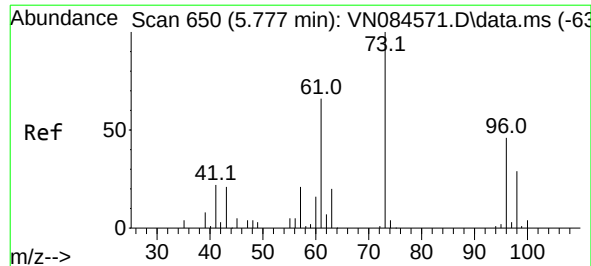
84 100

49 120.2 107.2 160.8

51 36.0 31.8 47.8

86 61.4 52.9 79.3





#21

trans-1,2-Dichloroethene

Concen: 45.019 ug/l

RT: 5.777 min Scan# 650

Delta R.T. -0.012 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion: 96 Resp: 101181

Ion Ratio Lower Upper

96 100

61 135.8 108.4 162.6

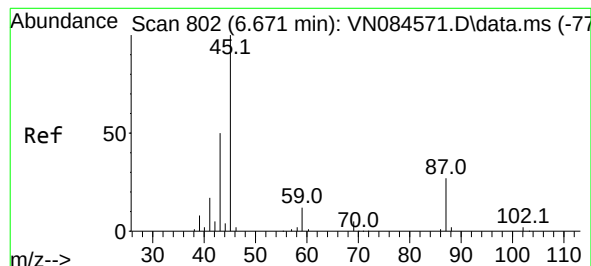
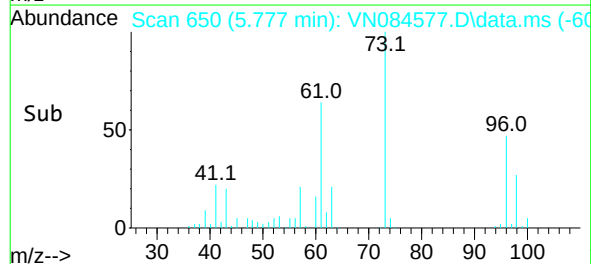
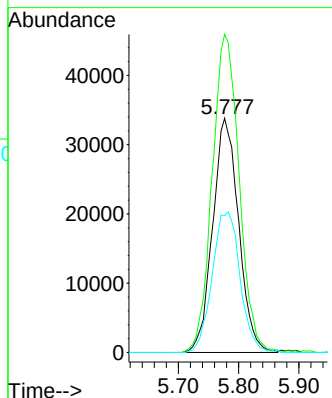
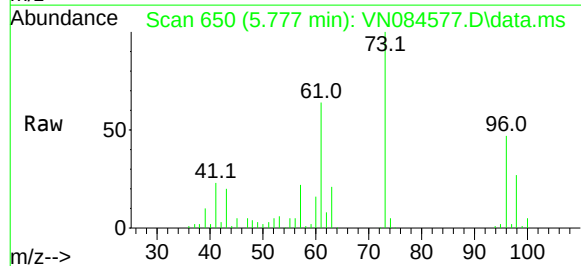
98 58.5 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#22

Diisopropyl ether

Concen: 48.739 ug/l

RT: 6.671 min Scan# 802

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Tgt Ion: 45 Resp: 343763

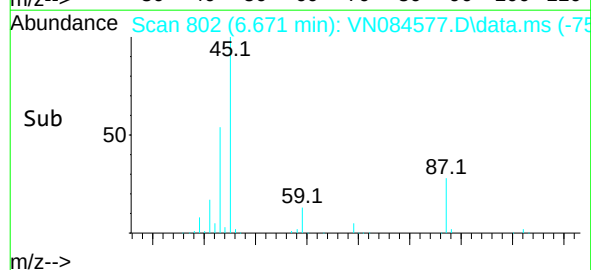
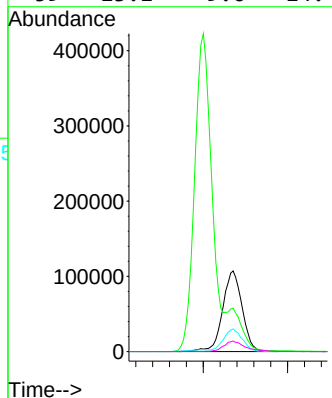
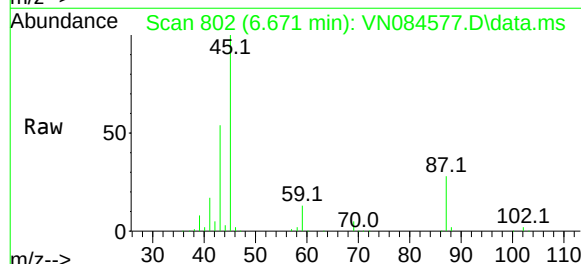
Ion Ratio Lower Upper

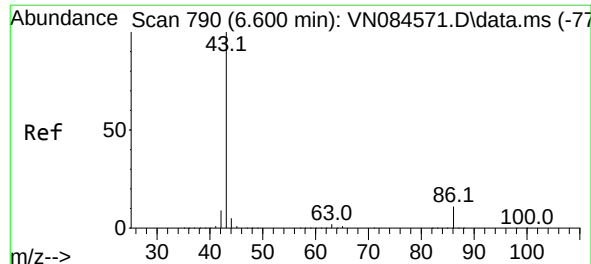
45 100

43 52.9 42.3 63.5

87 28.1 21.8 32.6

59 13.1 9.6 14.4





#23

Vinyl Acetate

Concen: 247.614 ug/l

RT: 6.600 min Scan# 790

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion: 43 Resp: 1204384

Ion Ratio Lower Upper

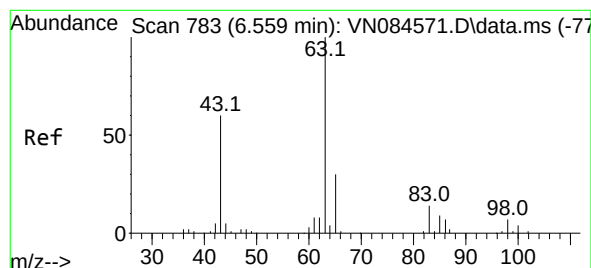
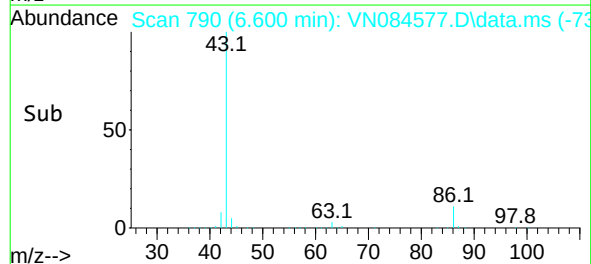
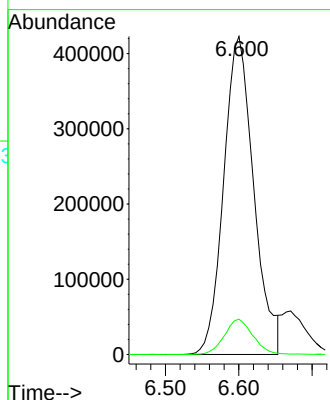
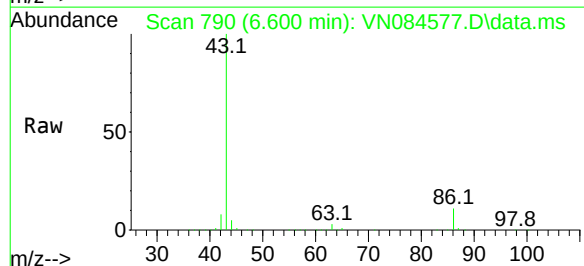
43 100

86 11.1 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#24

1,1-Dichloroethane

Concen: 46.408 ug/l

RT: 6.559 min Scan# 783

Delta R.T. -0.012 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

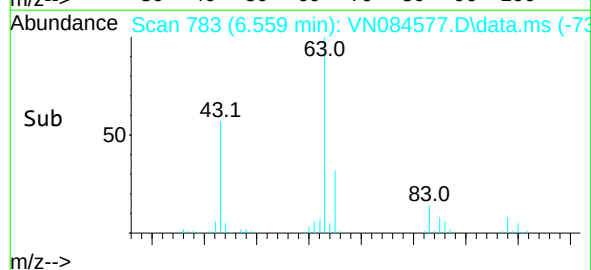
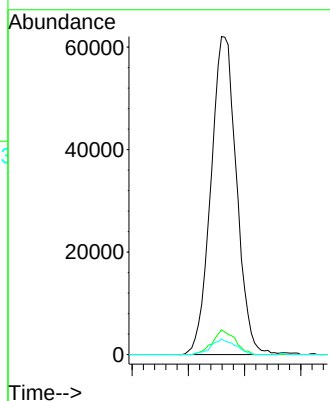
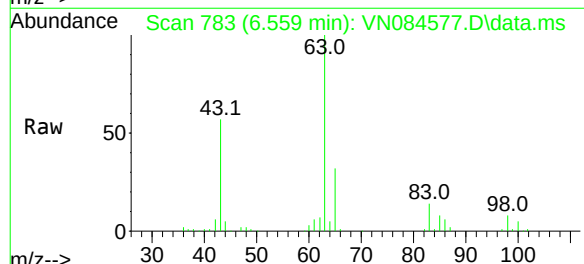
Tgt Ion: 63 Resp: 196518

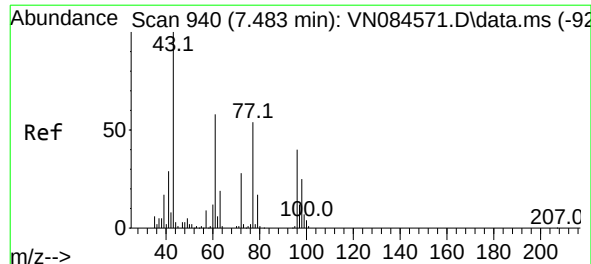
Ion Ratio Lower Upper

63 100

98 7.8 3.4 10.2

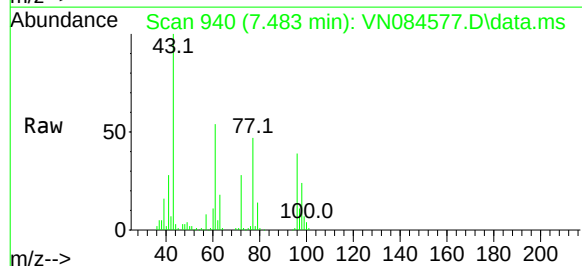
100 4.9 2.0 5.8





#25
2-Butanone
Concen: 237.635 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN084577.D
Acq: 30 Oct 2024 15:06

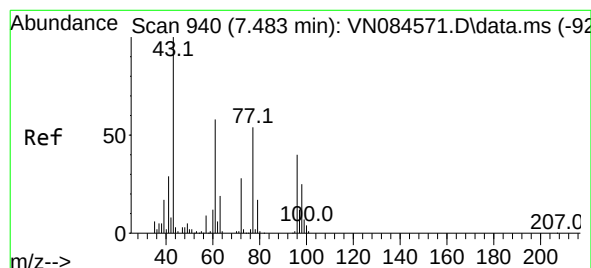
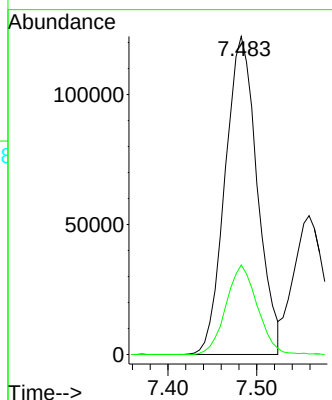
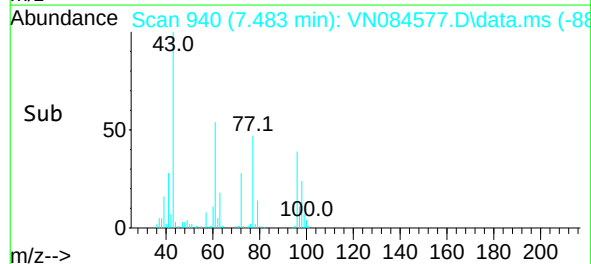
Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024



Tgt Ion: 43 Resp: 307765
Ion Ratio Lower Upper
43 100
72 28.2 21.4 32.2

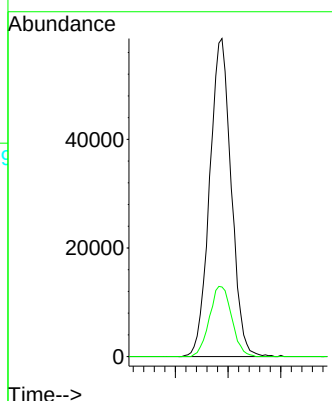
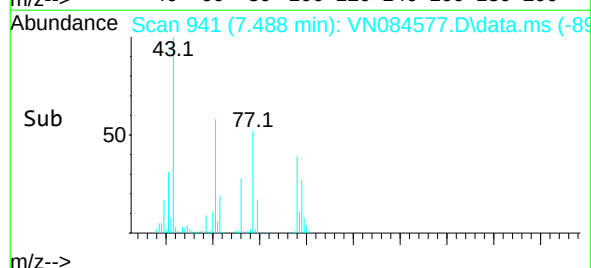
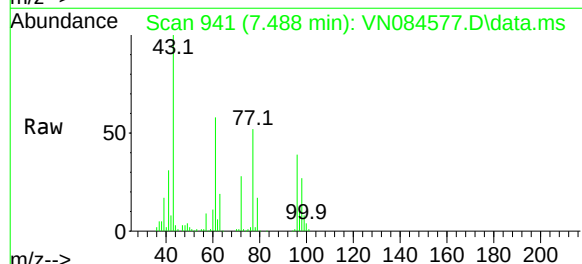
Manual Integrations
APPROVED

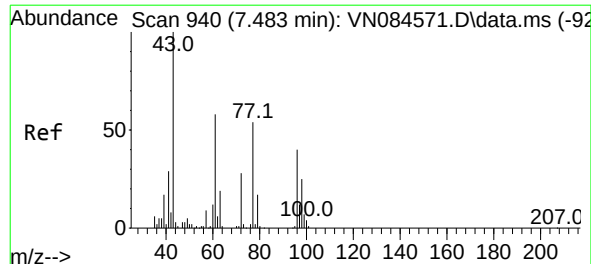
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#26
2,2-Dichloropropane
Concen: 45.103 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN084577.D
Acq: 30 Oct 2024 15:06

Tgt Ion: 77 Resp: 166234
Ion Ratio Lower Upper
77 100
97 22.8 10.8 32.3





#27

cis-1,2-Dichloroethene

Concen: 46.214 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.006 min

Lab File: VN084577.D

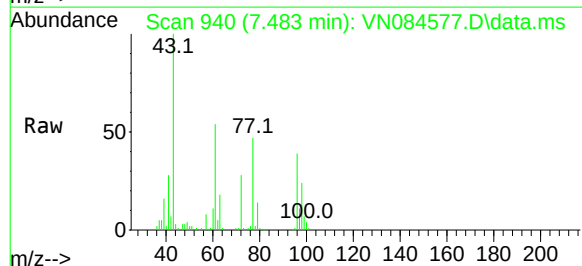
Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

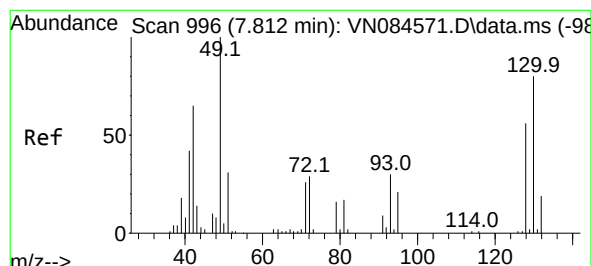
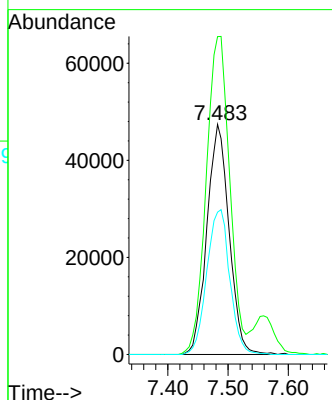
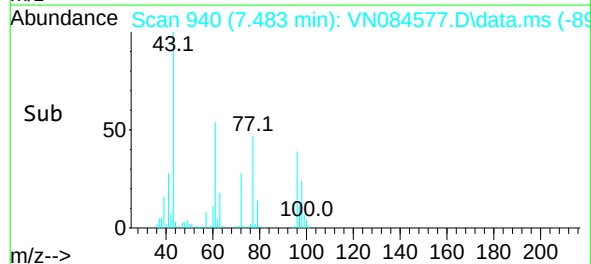
ICVVN103024



Tgt Ion	Ratio	Lower	Upper
96	100		
61	145.9	0.0	301.8
98	65.2	0.0	128.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#28

Bromochloromethane

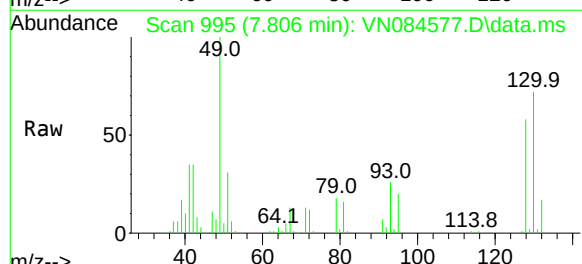
Concen: 54.971 ug/l

RT: 7.806 min Scan# 995

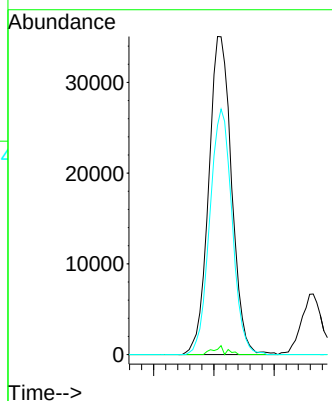
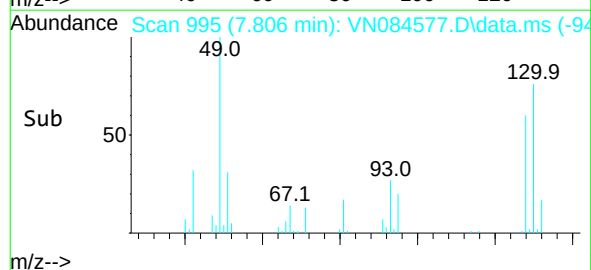
Delta R.T. -0.006 min

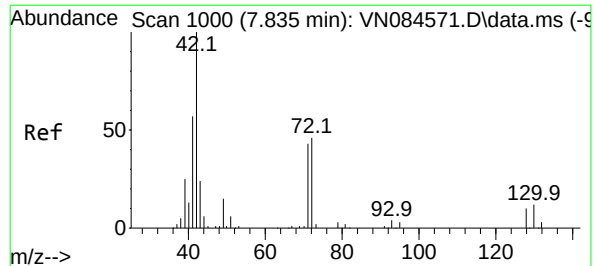
Lab File: VN084577.D

Acq: 30 Oct 2024 15:06



Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	3.6
130	75.0	58.0	87.0





#29

Tetrahydrofuran

Concen: 245.822 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion: 42 Resp: 211210

Ion Ratio Lower Upper

42 100

72 44.0 34.6 51.8

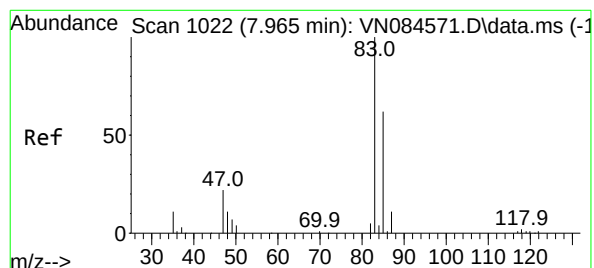
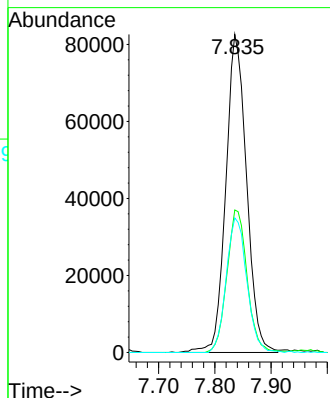
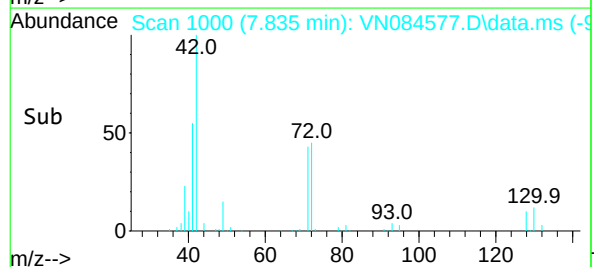
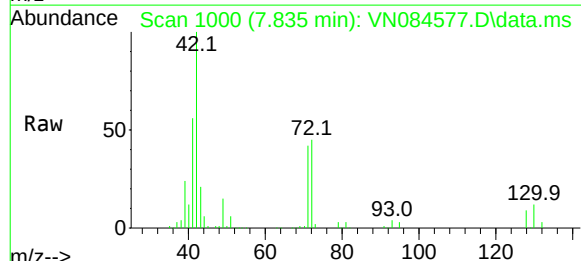
71 42.1 32.2 48.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#30

Chloroform

Concen: 47.316 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN084577.D

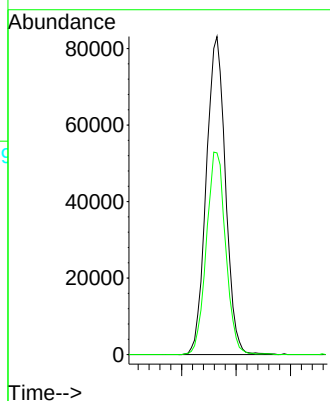
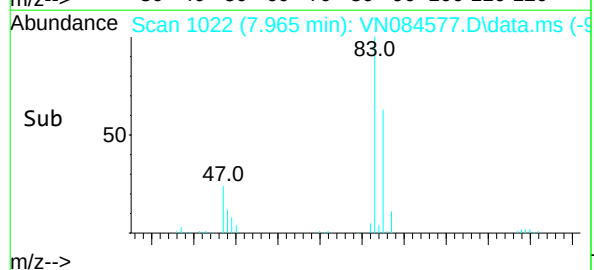
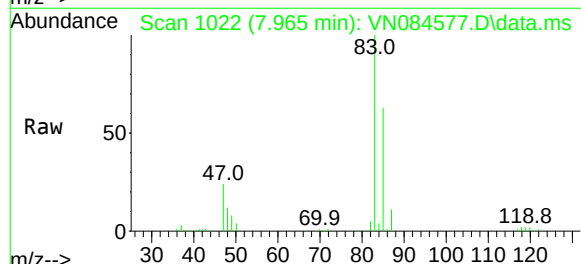
Acq: 30 Oct 2024 15:06

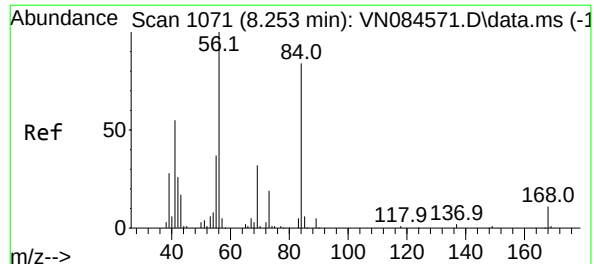
Tgt Ion: 83 Resp: 203935

Ion Ratio Lower Upper

83 100

85 63.4 51.0 76.4





#31

Cyclohexane

Concen: 45.053 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion: 56 Resp: 172671

Ion Ratio Lower Upper

56 100

69 30.9 23.8 35.6

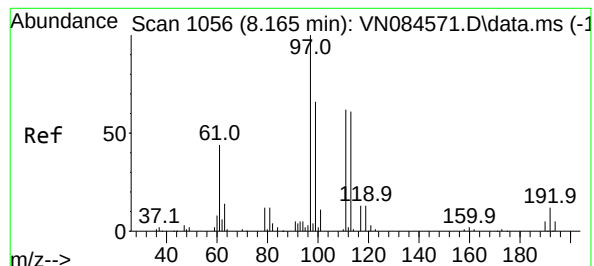
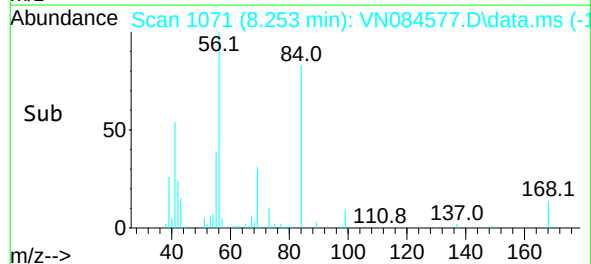
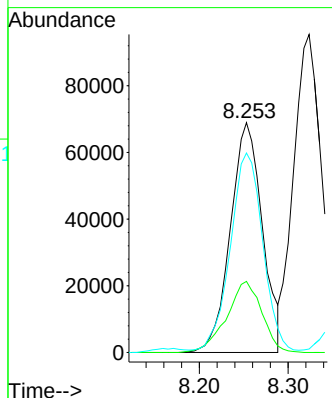
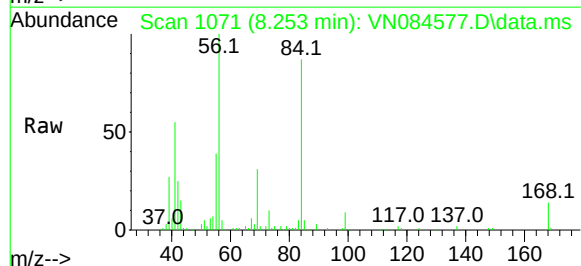
84 85.4 68.8 103.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#32

1,1,1-Trichloroethane

Concen: 46.774 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

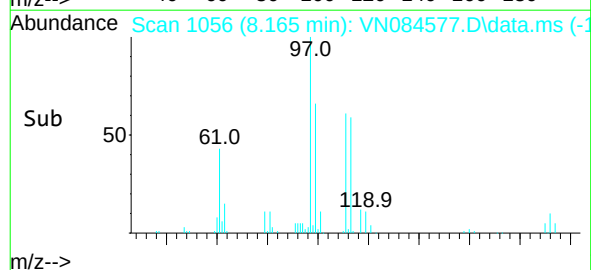
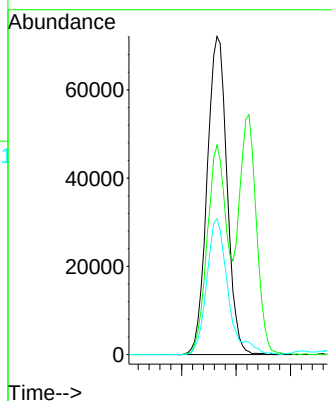
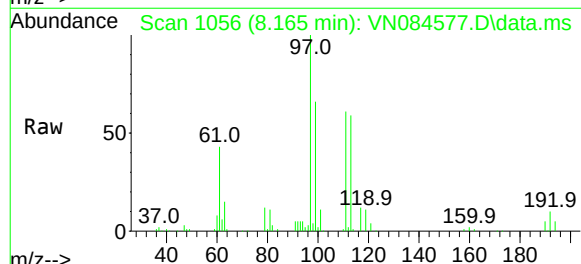
Tgt Ion: 97 Resp: 183488

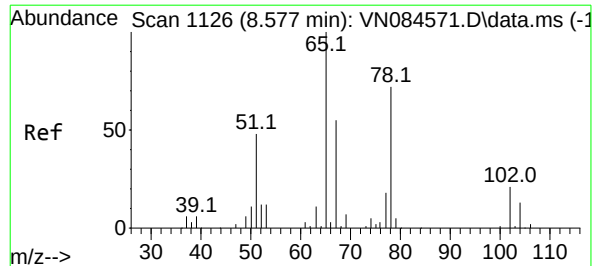
Ion Ratio Lower Upper

97 100

99 66.1 51.2 76.8

61 45.6 37.5 56.3





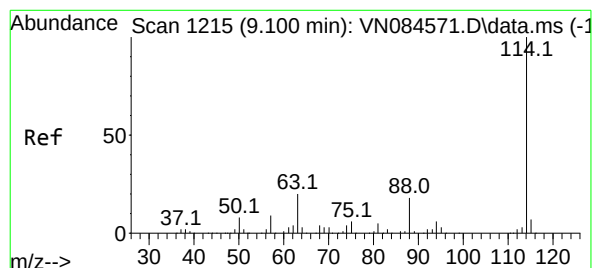
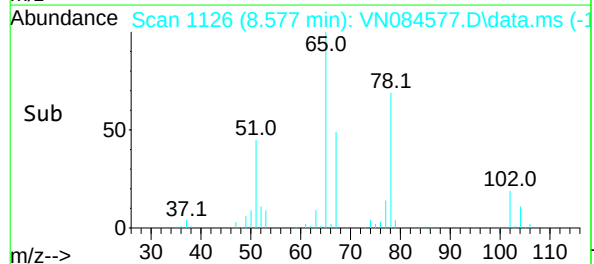
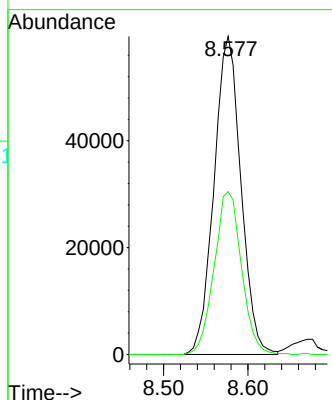
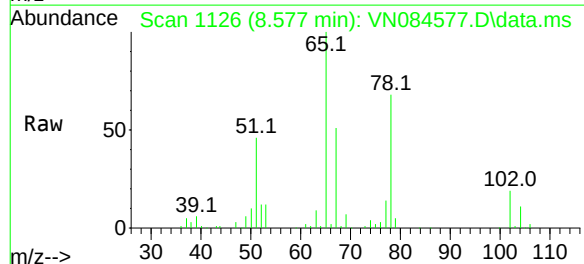
#33
1,2-Dichloroethane-d4
Concen: 47.560 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084577.D
Acq: 30 Oct 2024 15:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Tgt Ion: 65 Resp: 132029
Ion Ratio Lower Upper
65 100
67 52.0 0.0 102.0

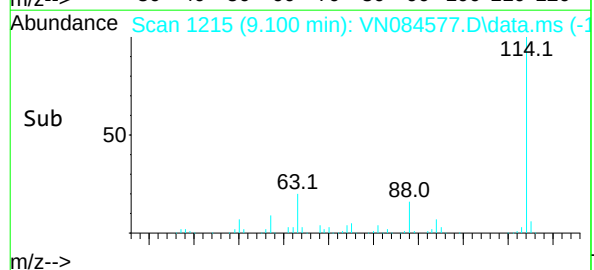
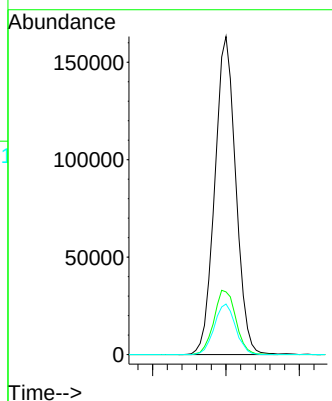
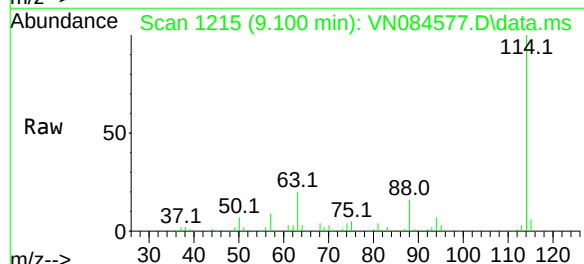
Manual Integrations
APPROVED

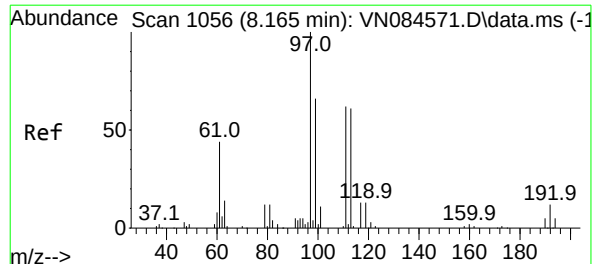
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084577.D
Acq: 30 Oct 2024 15:06

Tgt Ion:114 Resp: 324264
Ion Ratio Lower Upper
114 100
63 19.7 0.0 43.8
88 15.9 0.0 31.6





#35

Dibromofluoromethane

Concen: 47.522 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion:113 Resp: 104306

Ion Ratio Lower Upper

113 100

111 103.1 83.3 124.9

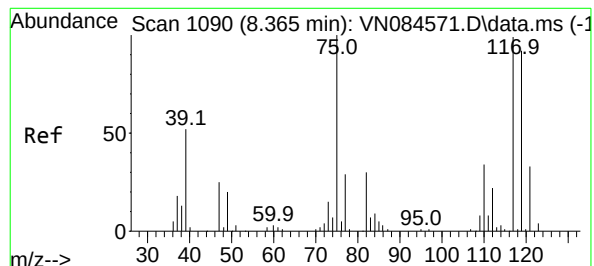
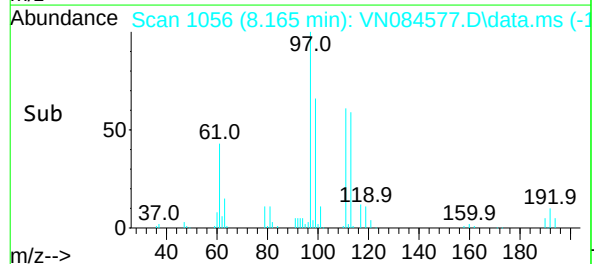
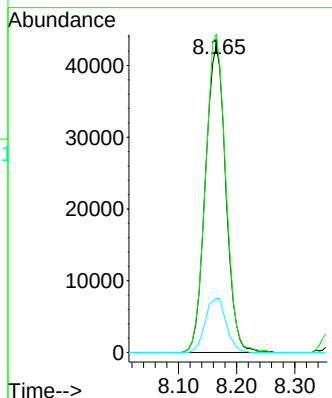
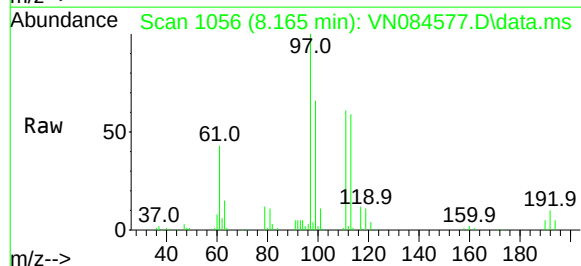
192 18.1 13.5 20.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#36

1,1-Dichloropropene

Concen: 46.370 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.006 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

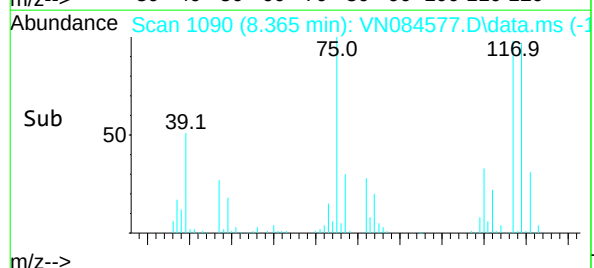
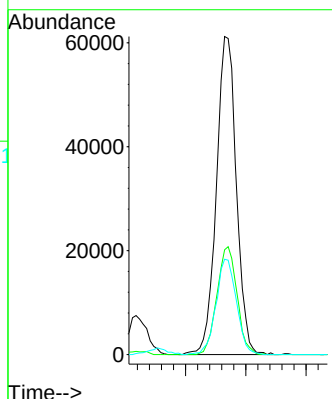
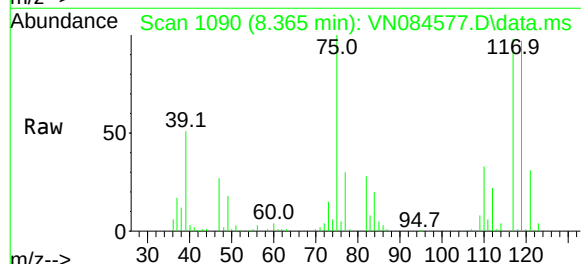
Tgt Ion: 75 Resp: 141152

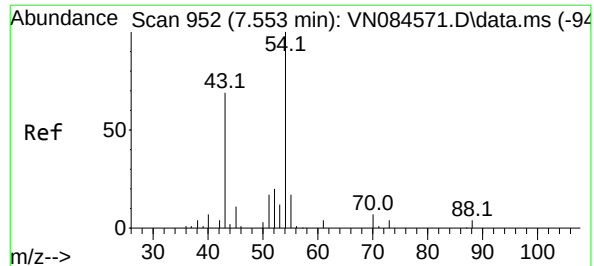
Ion Ratio Lower Upper

75 100

110 34.0 16.9 50.7

77 30.7 24.7 37.1





#37

Ethyl Acetate

Concen: 48.154 ug/l

RT: 7.559 min Scan# 952

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

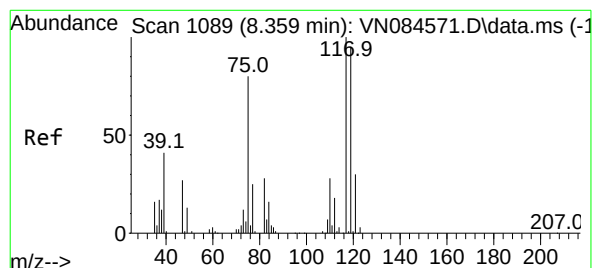
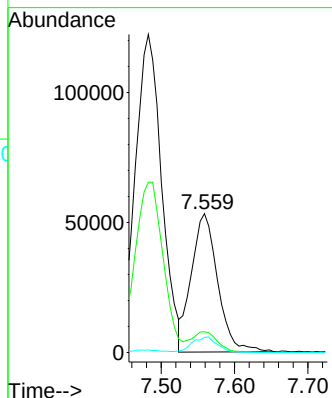
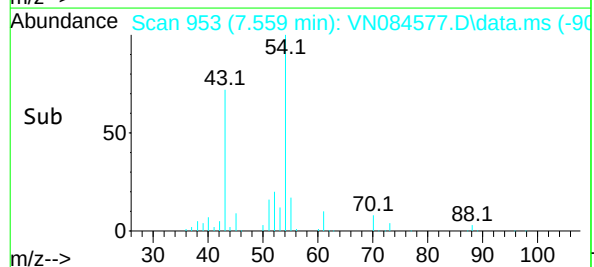
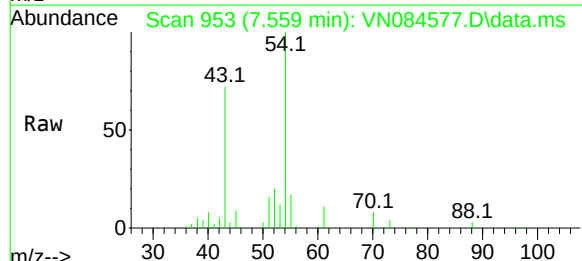
ClientSampleId :

ICVVN103024

Tgt Ion:	43	Resp:	132993
Ion	Ratio	Lower	Upper
43	100		
61	14.1	10.7	16.1
70	10.8	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#38

Carbon Tetrachloride

Concen: 46.145 ug/l

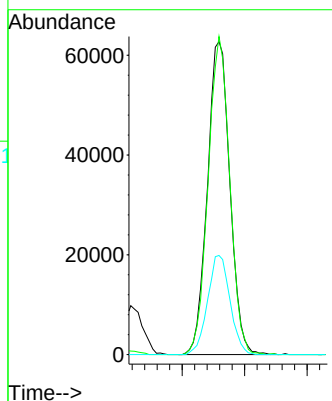
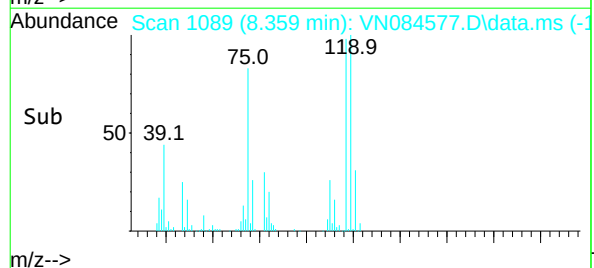
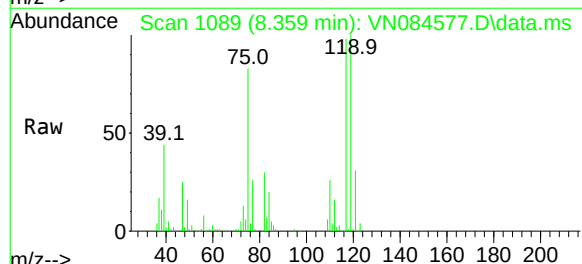
RT: 8.359 min Scan# 1089

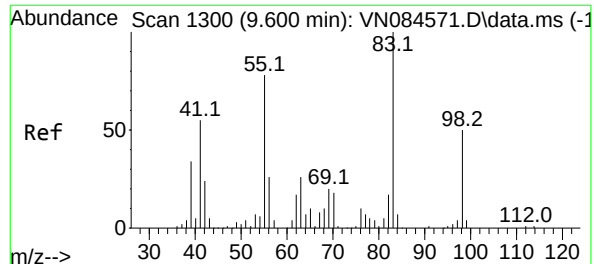
Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Tgt Ion:	117	Resp:	157005
Ion	Ratio	Lower	Upper
117	100		
119	101.6	78.7	118.1
121	31.7	24.4	36.6





#39

Methylcyclohexane

Concen: 49.969 ug/l

RT: 9.600 min Scan# 13

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion: 83 Resp: 154743

Ion Ratio Lower Upper

83 100

55 78.1 62.8 94.2

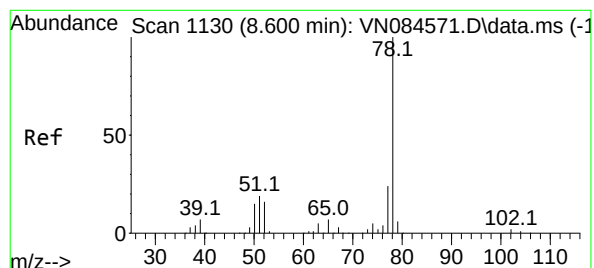
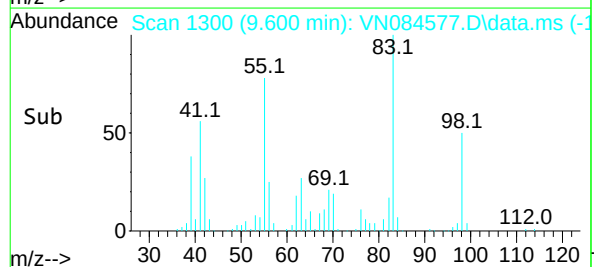
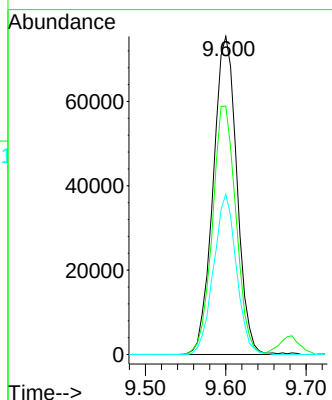
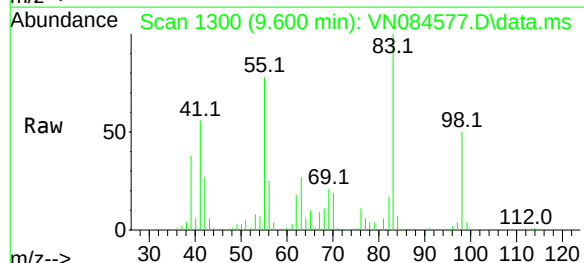
98 50.4 38.8 58.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#40

Benzene

Concen: 46.273 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VN084577.D

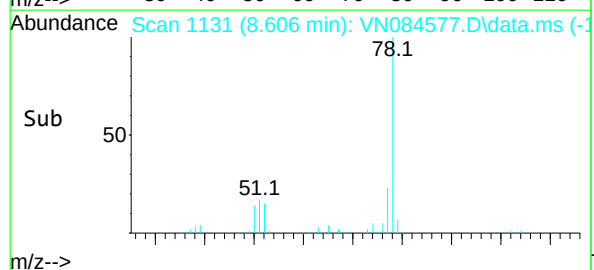
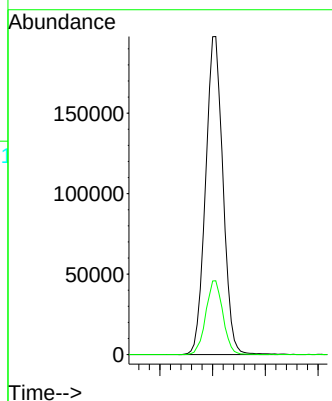
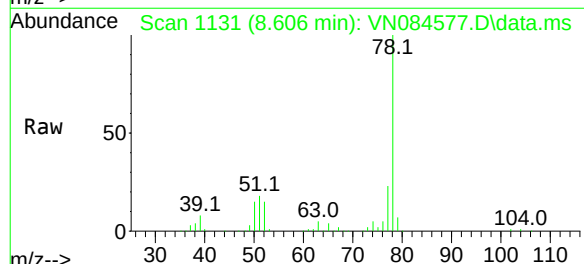
Acq: 30 Oct 2024 15:06

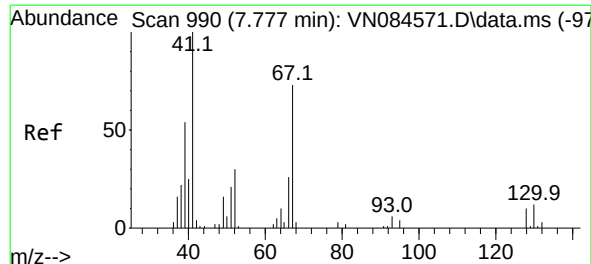
Tgt Ion: 78 Resp: 452351

Ion Ratio Lower Upper

78 100

77 23.2 19.1 28.7





#41

Methacrylonitrile

Concen: 51.964 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

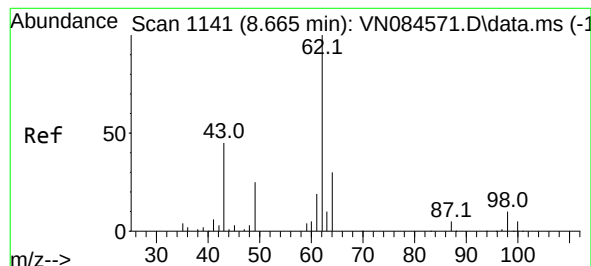
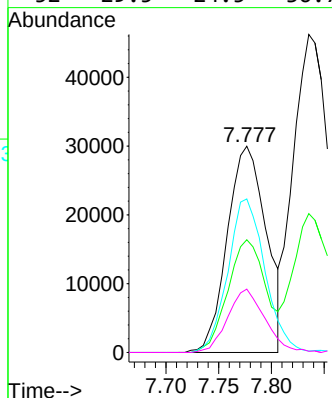
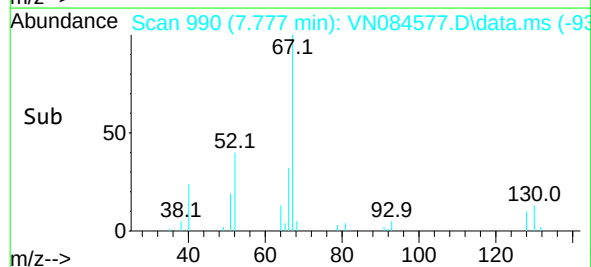
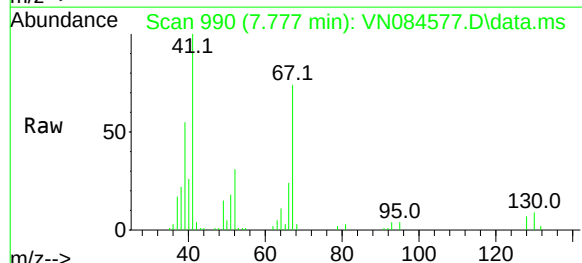
ICVVN103024

Tgt Ion:	41	Resp:	77176
Ion	Ratio	Lower	Upper
41	100		
39	53.3	43.3	64.9
67	71.3	56.1	84.1
52	29.5	24.5	36.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#42

1,2-Dichloroethane

Concen: 47.118 ug/l

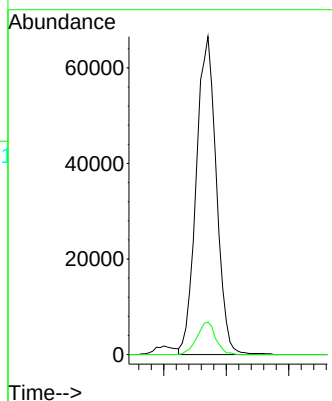
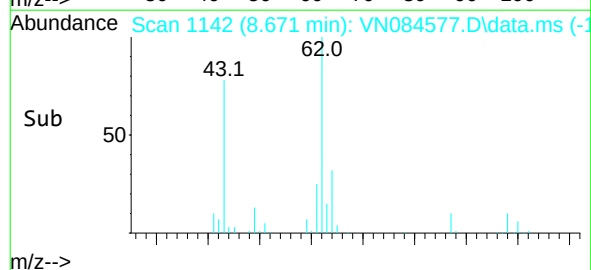
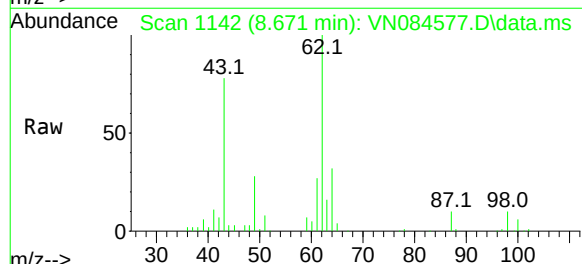
RT: 8.671 min Scan# 1142

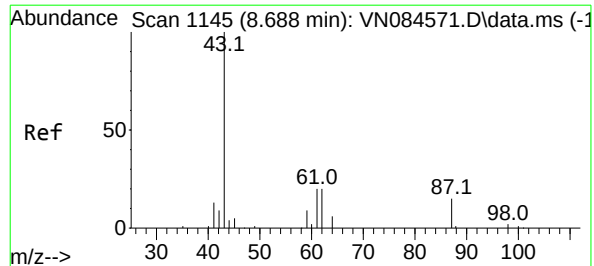
Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Tgt Ion:	62	Resp:	149173
Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	18.2





#43

Isopropyl Acetate

Concen: 45.492 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion: 43 Resp: 232558

Ion Ratio Lower Upper

43 100

61 26.9 20.4 30.6

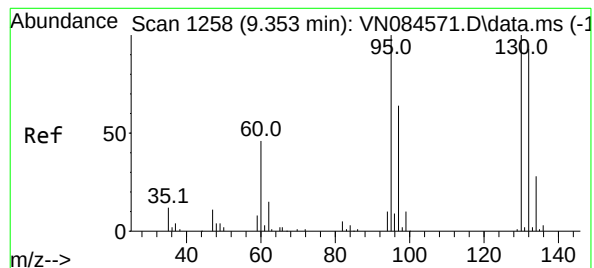
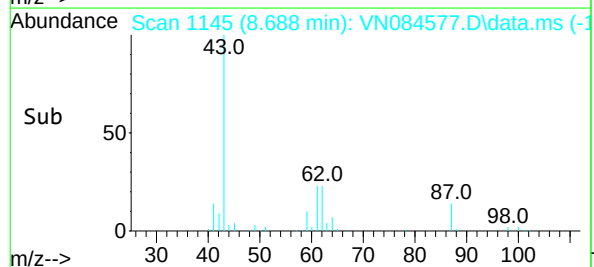
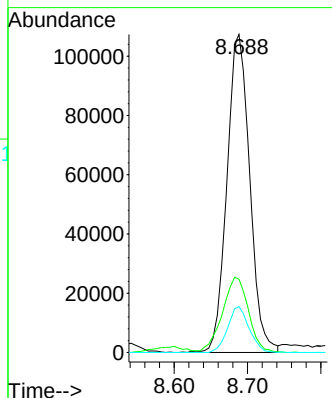
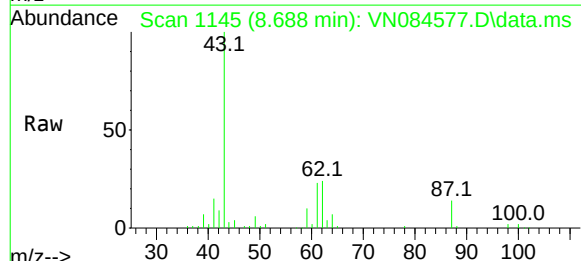
87 13.5 10.3 15.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#44

Trichloroethene

Concen: 44.732 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN084577.D

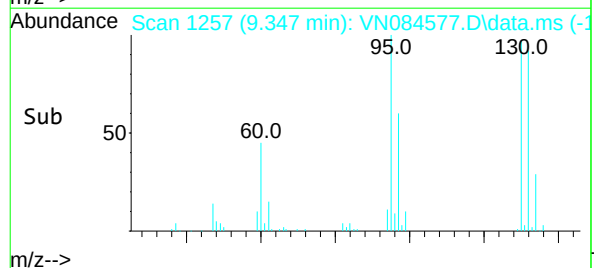
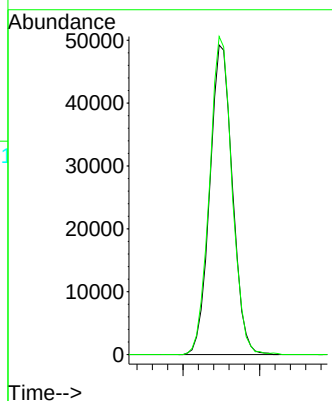
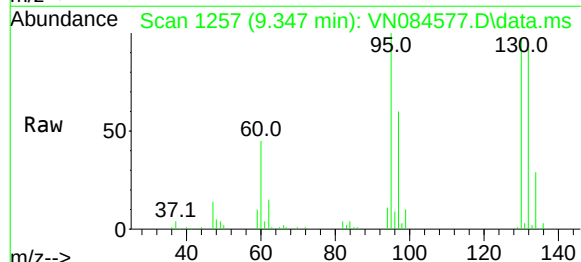
Acq: 30 Oct 2024 15:06

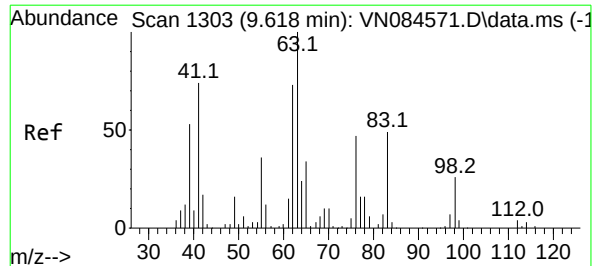
Tgt Ion:130 Resp: 100849

Ion Ratio Lower Upper

130 100

95 102.7 0.0 203.0





#45

1,2-Dichloropropane

Concen: 47.196 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion: 63 Resp: 108229

Ion Ratio Lower Upper

63 100

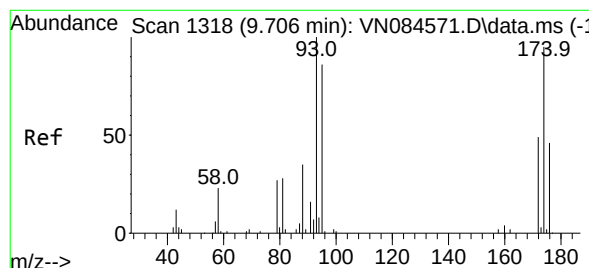
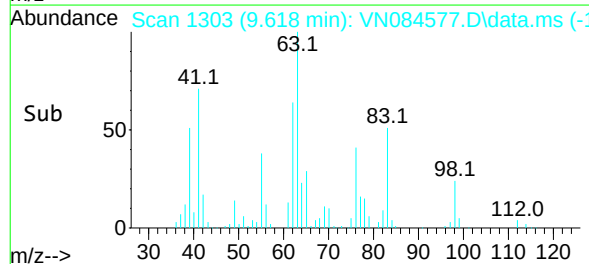
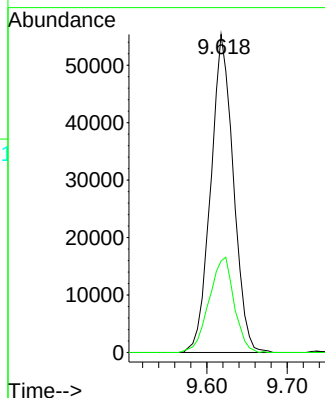
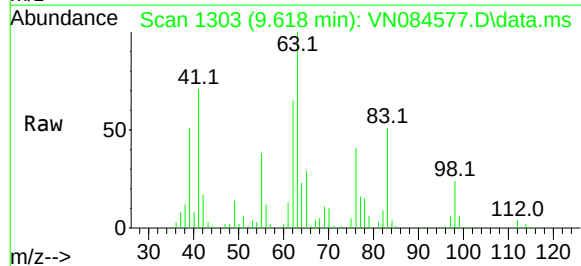
65 28.8 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#46

Dibromomethane

Concen: 45.911 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

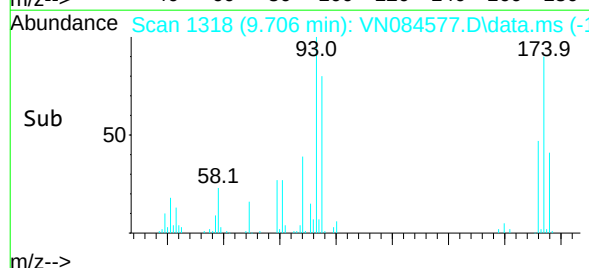
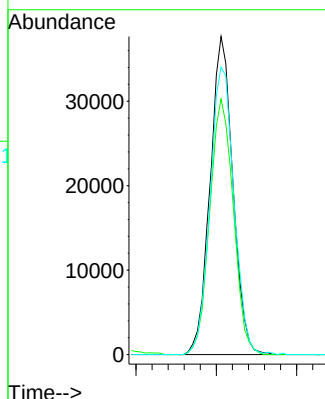
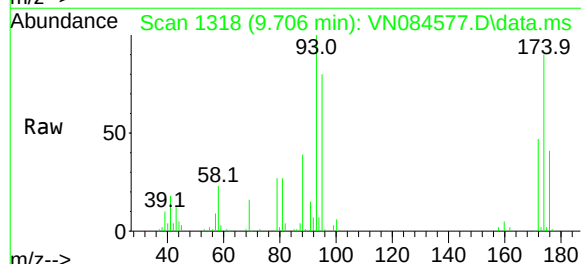
Tgt Ion: 93 Resp: 74292

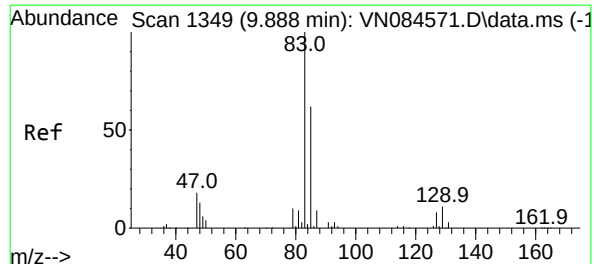
Ion Ratio Lower Upper

93 100

95 83.1 65.0 97.4

174 94.6 71.8 107.8





#47

Bromodichloromethane

Concen: 46.560 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion: 83 Resp: 158814

Ion Ratio Lower Upper

83 100

85 64.6 51.5 77.3

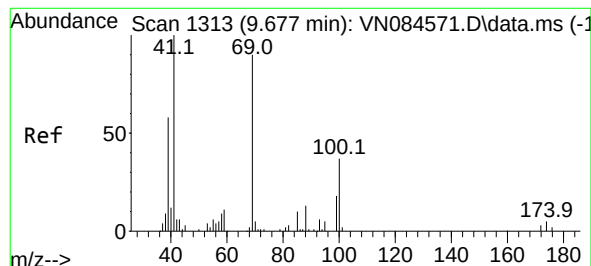
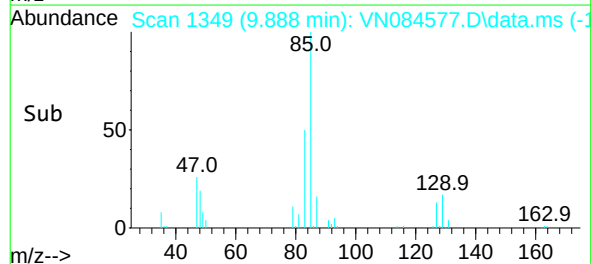
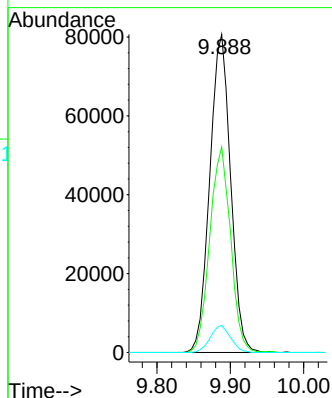
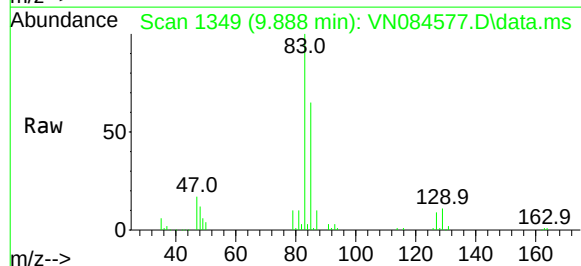
127 8.5 5.7 8.5#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#48

Methyl methacrylate

Concen: 51.057 ug/l

RT: 9.676 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

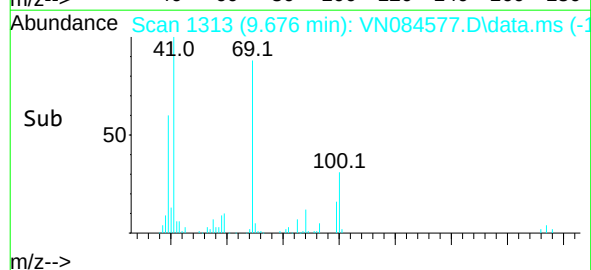
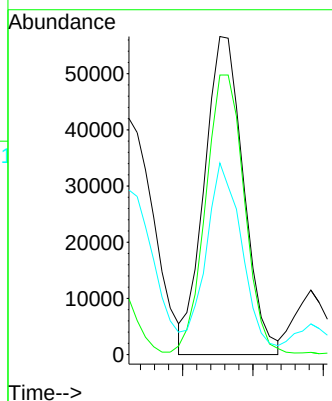
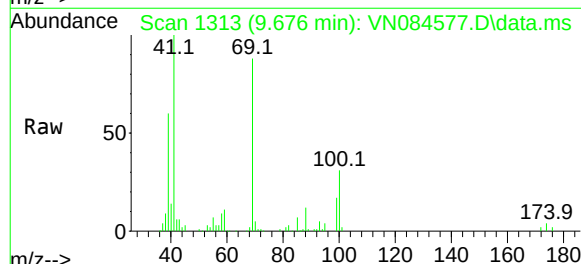
Tgt Ion: 41 Resp: 109745

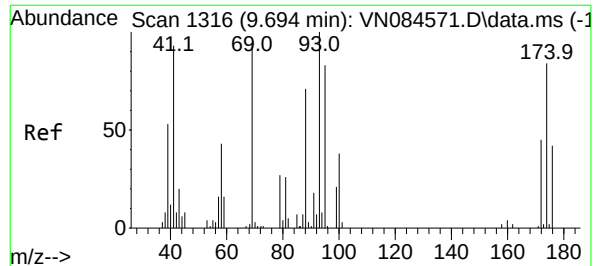
Ion Ratio Lower Upper

41 100

69 87.5 67.1 100.7

39 56.5 45.8 68.6





#49

1,4-Dioxane

Concen: 1063.992 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN084577.D

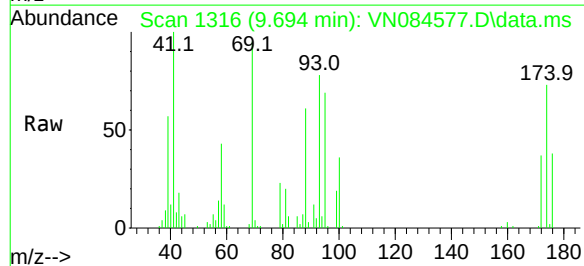
Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

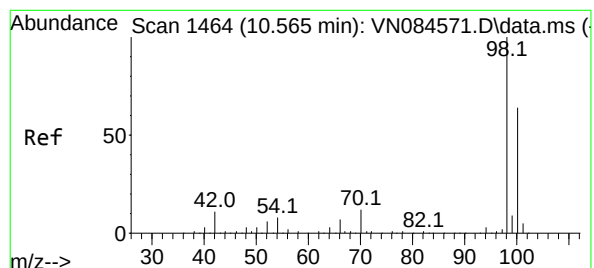
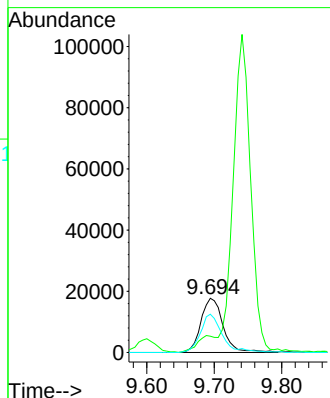
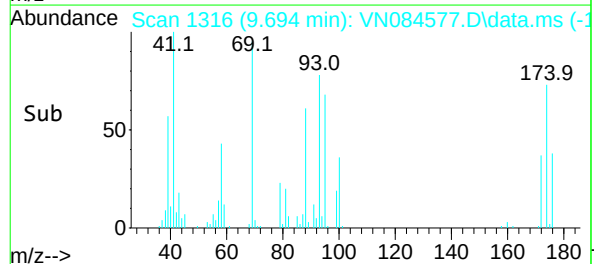
ICVVN103024



Tgt Ion:	88	Resp:	40527
Ion	Ratio	Lower	Upper
88	100		
43	24.5	25.3	37.9
58	69.9	56.4	84.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#50

Toluene-d8

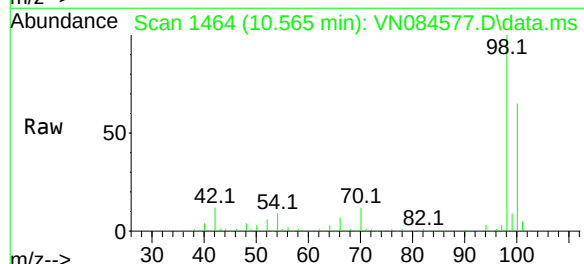
Concen: 48.359 ug/l

RT: 10.565 min Scan# 1464

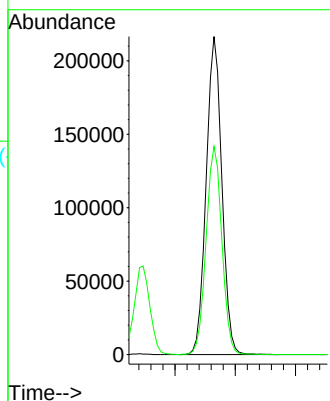
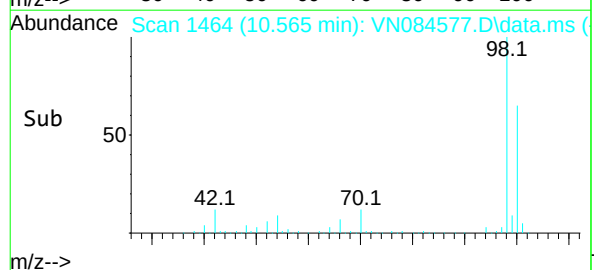
Delta R.T. -0.000 min

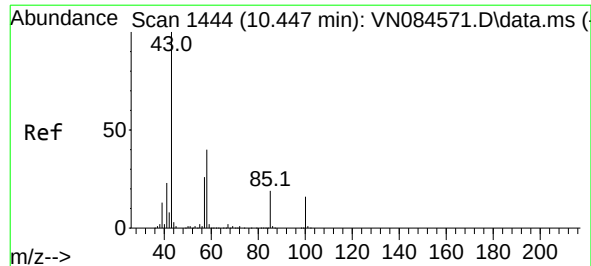
Lab File: VN084577.D

Acq: 30 Oct 2024 15:06



Tgt Ion:	98	Resp:	390989
Ion	Ratio	Lower	Upper
98	100		
100	66.0	52.7	79.1





#51

4-Methyl-2-Pentanone

Concen: 252.729 ug/l

RT: 10.447 min Scan# 14

Delta R.T. 0.006 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion: 43 Resp: 665397

Ion Ratio Lower Upper

43 100

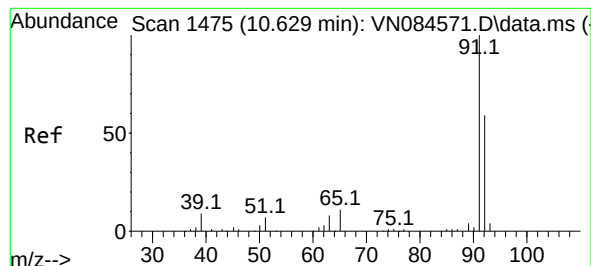
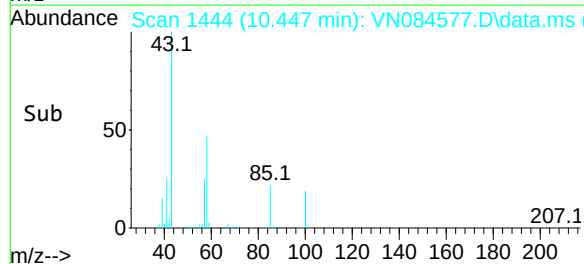
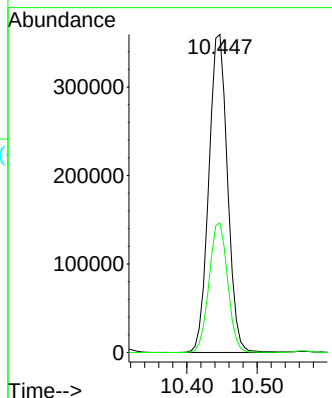
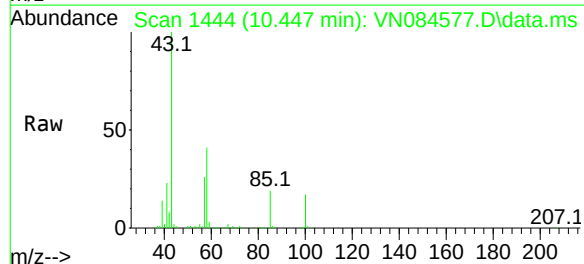
58 40.5 31.6 47.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#52

Toluene

Concen: 48.616 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VN084577.D

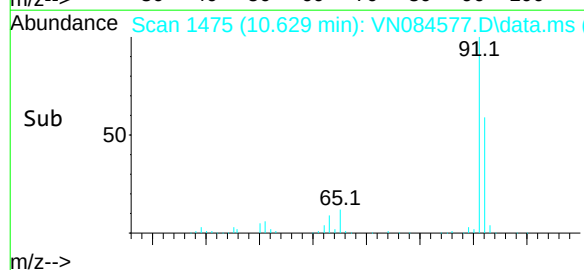
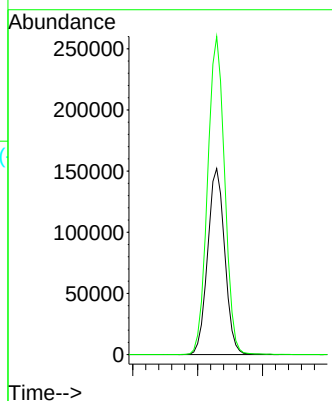
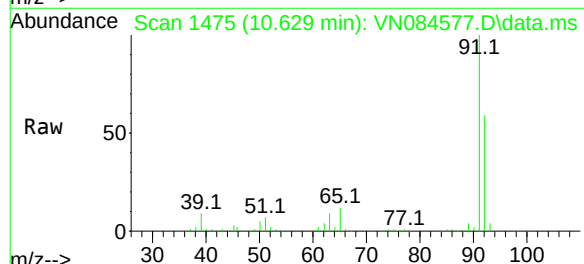
Acq: 30 Oct 2024 15:06

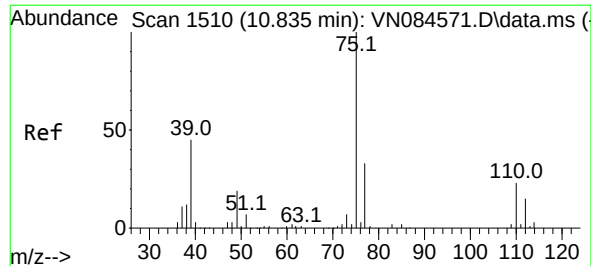
Tgt Ion: 92 Resp: 277957

Ion Ratio Lower Upper

92 100

91 171.0 137.3 205.9





#53

t-1,3-Dichloropropene

Concen: 45.911 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion: 75 Resp: 162100

Ion Ratio Lower Upper

75 100

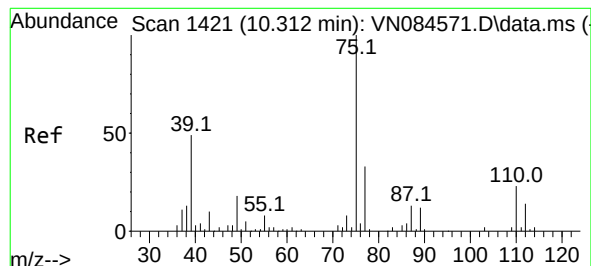
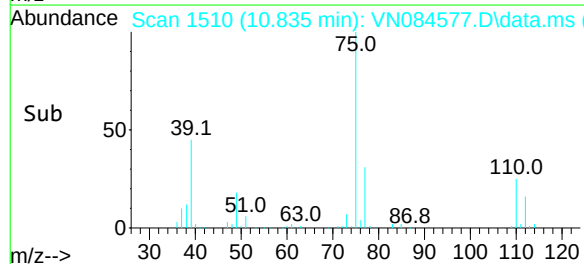
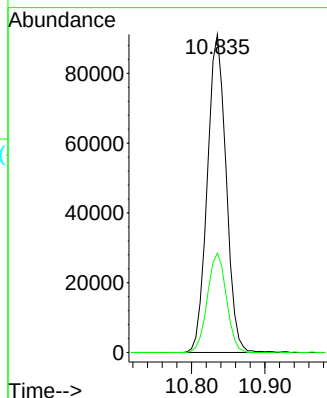
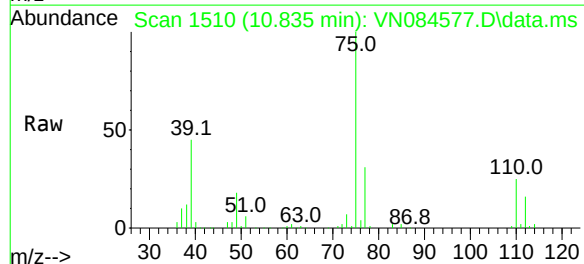
77 31.2 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#54

cis-1,3-Dichloropropene

Concen: 46.832 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

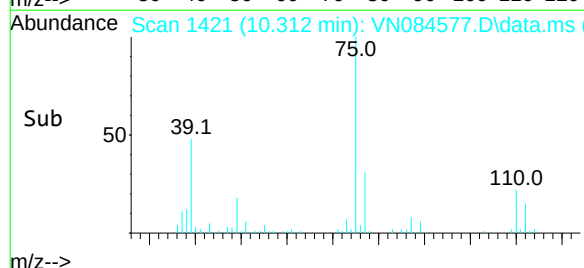
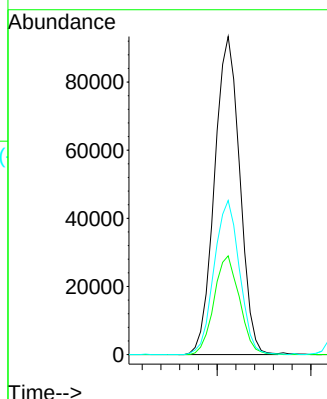
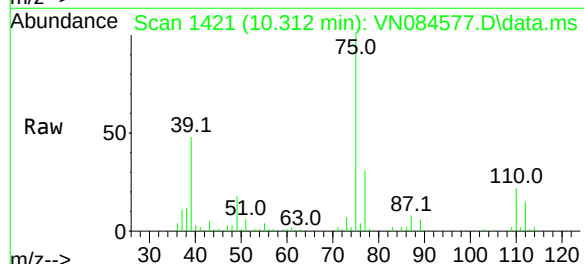
Tgt Ion: 75 Resp: 175008

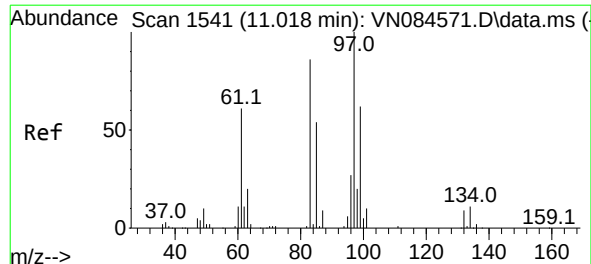
Ion Ratio Lower Upper

75 100

77 31.1 24.2 36.2

39 48.4 38.7 58.1





#55

1,1,2-Trichloroethane

Concen: 47.618 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. 0.006 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion: 97 Resp: 102553

Ion Ratio Lower Upper

97 100

83 86.0 71.0 106.4

85 56.6 41.7 62.5

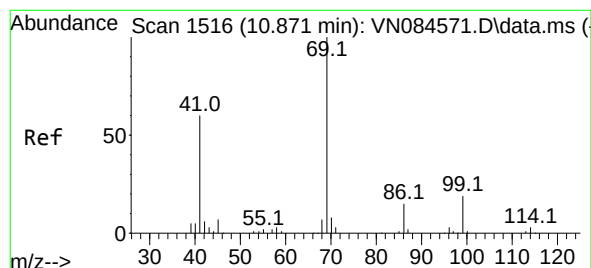
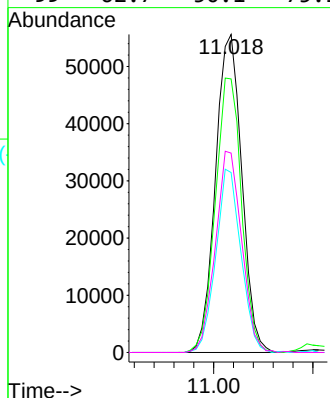
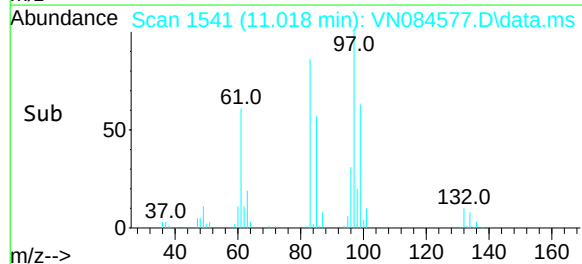
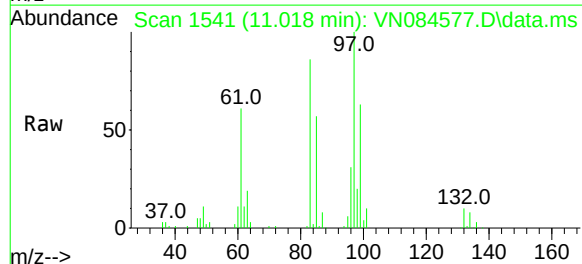
99 62.7 50.1 75.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#56

Ethyl methacrylate

Concen: 52.764 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

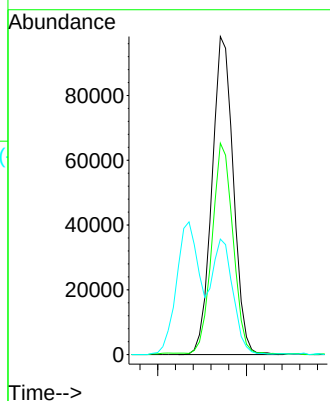
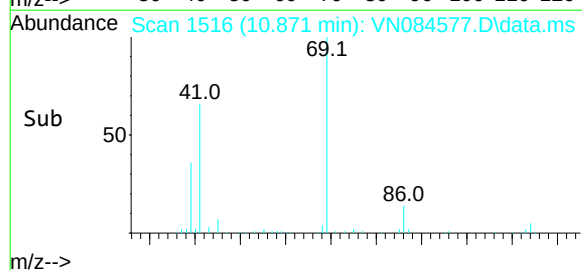
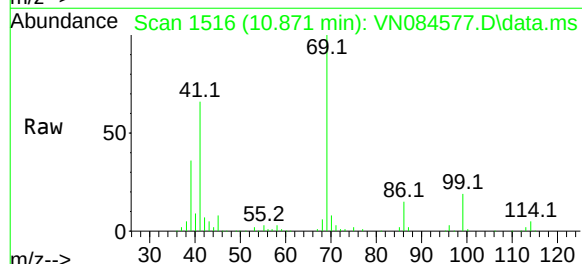
Tgt Ion: 69 Resp: 164370

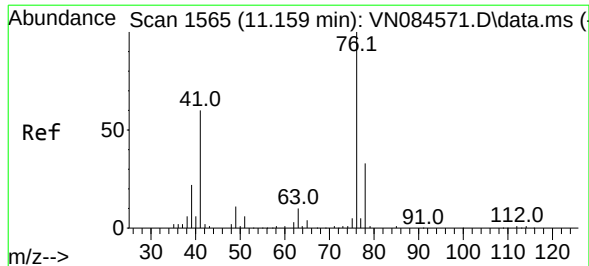
Ion Ratio Lower Upper

69 100

41 65.0 53.3 79.9

39 35.6 28.8 43.2





#57

1,3-Dichloropropane

Concen: 47.765 ug/l

RT: 11.165 min Scan# 1565

Delta R.T. 0.006 min

Lab File: VN084577.D

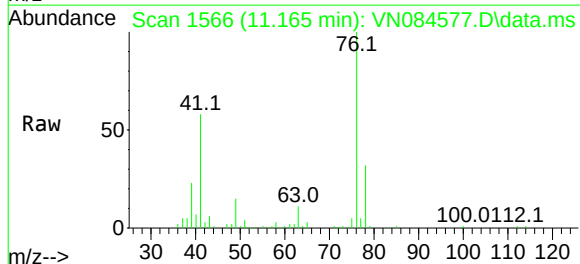
Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024



Tgt Ion: 76 Resp: 176546

Ion Ratio Lower Upper

76 100

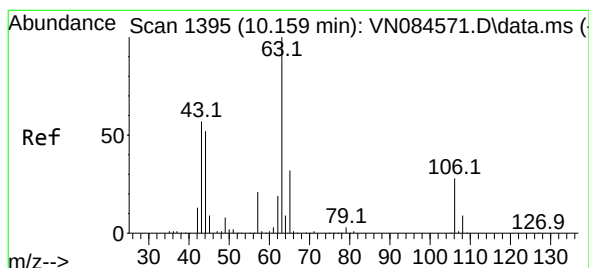
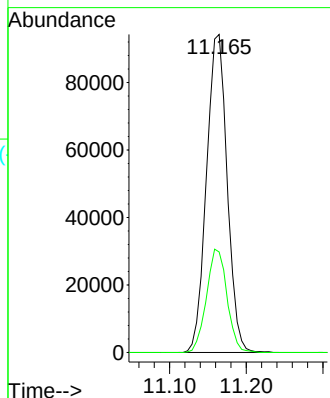
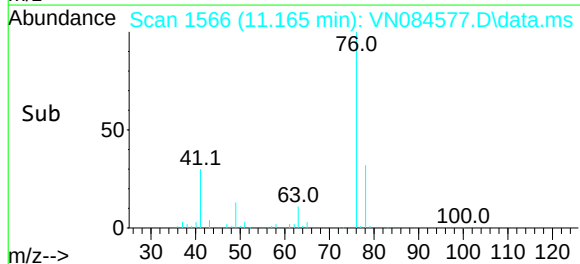
78 32.3 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#58

2-Chloroethyl Vinyl ether

Concen: 280.013 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN084577.D

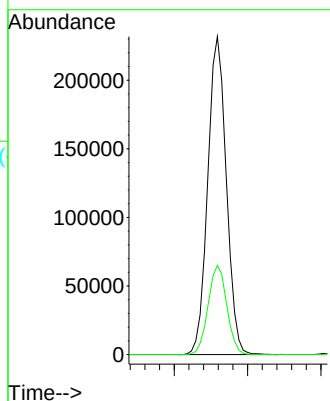
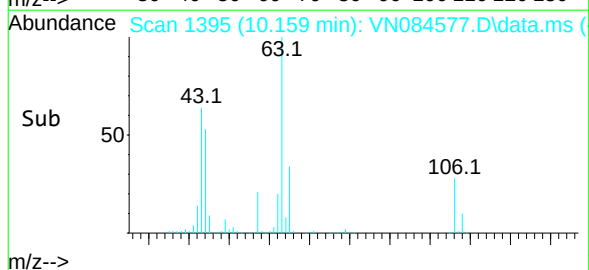
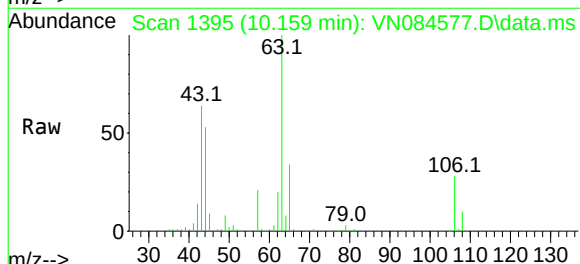
Acq: 30 Oct 2024 15:06

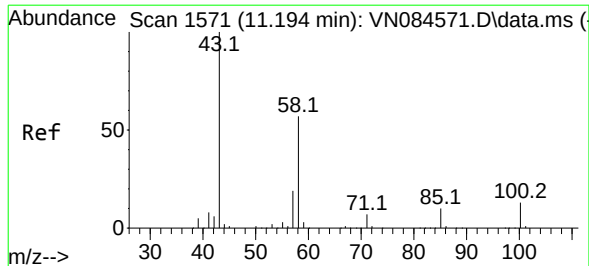
Tgt Ion: 63 Resp: 408174

Ion Ratio Lower Upper

63 100

106 28.2 21.8 32.6





#59

2-Hexanone

Concen: 255.570 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVNVN103024

Tgt Ion: 43 Resp: 489776

Ion Ratio Lower Upper

43 100

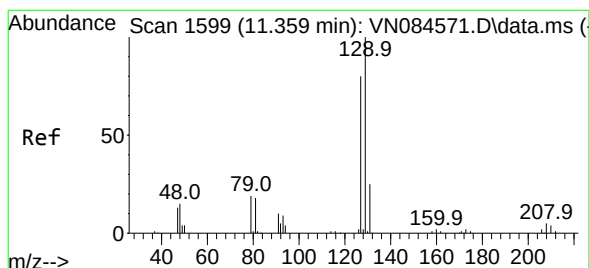
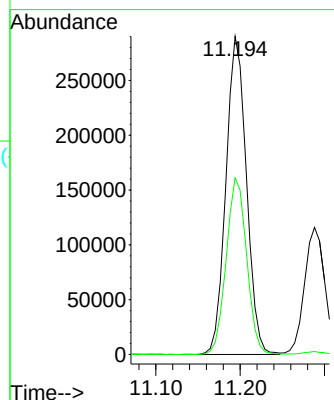
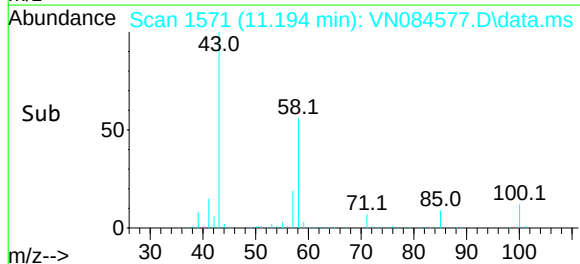
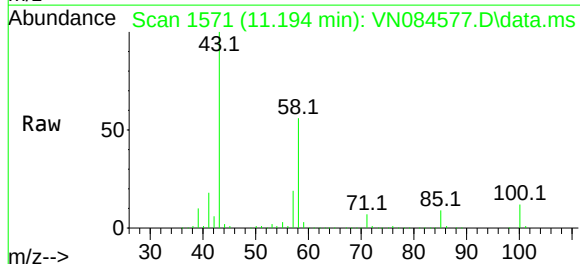
58 55.4 27.3 81.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#60

Dibromochloromethane

Concen: 49.079 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. -0.000 min

Lab File: VN084577.D

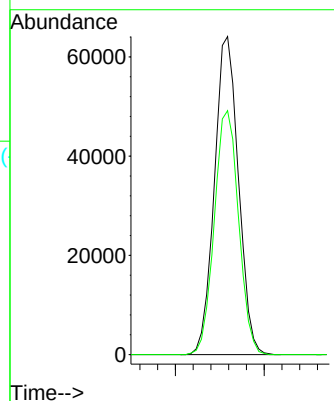
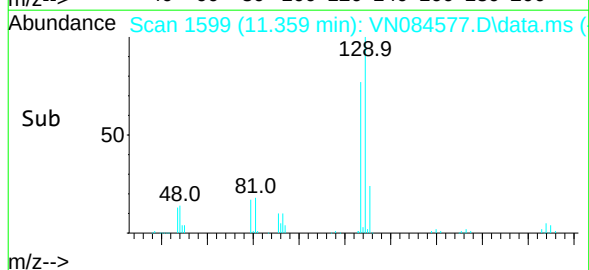
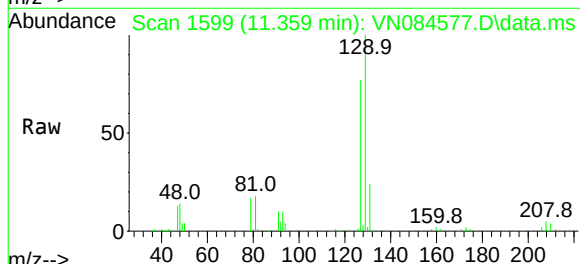
Acq: 30 Oct 2024 15:06

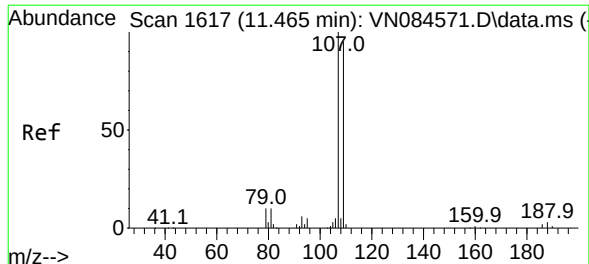
Tgt Ion:129 Resp: 120465

Ion Ratio Lower Upper

129 100

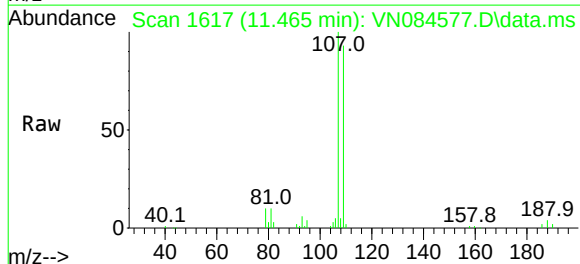
127 77.4 38.3 114.9





#61
1,2-Dibromoethane
Concen: 46.393 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN084577.D
Acq: 30 Oct 2024 15:06

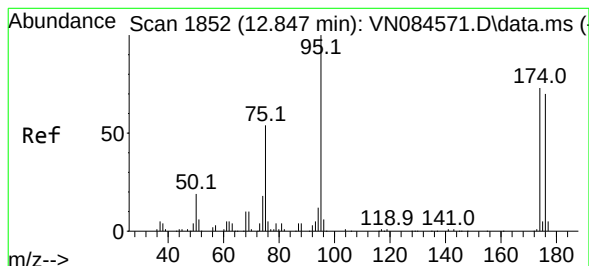
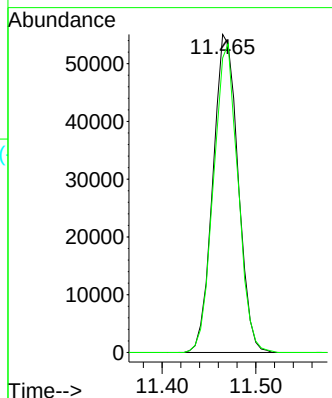
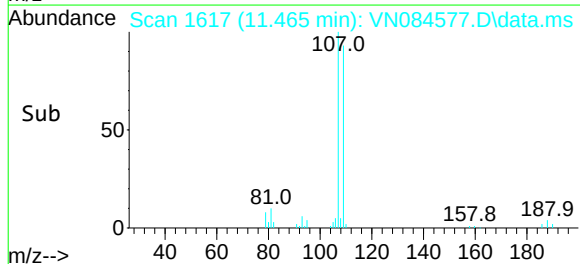
Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024



Tgt Ion: 107 Resp: 102316
Ion Ratio Lower Upper
107 100
109 94.5 75.4 113.0

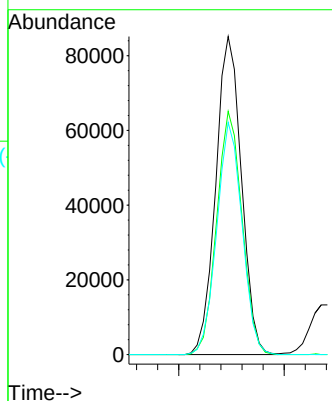
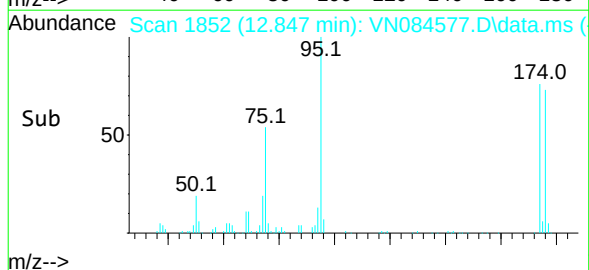
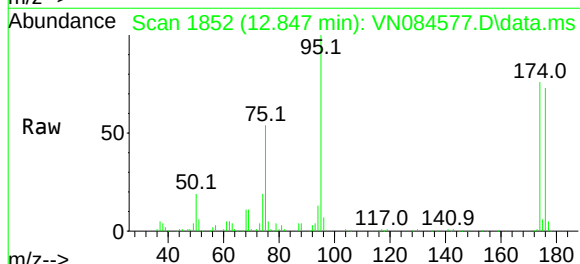
Manual Integrations
APPROVED

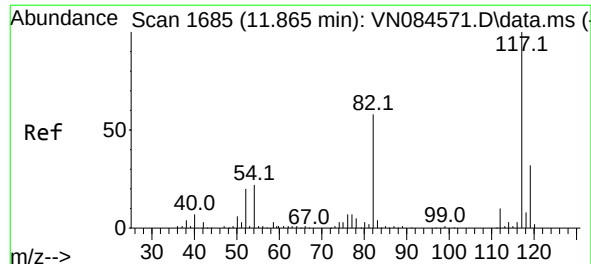
Reviewed By : Semsettin Yesilyurt 11/04/2024
Supervised By : Mahesh Dadoda 11/04/2024



#62
4-Bromofluorobenzene
Concen: 47.715 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084577.D
Acq: 30 Oct 2024 15:06

Tgt Ion: 95 Resp: 144180
Ion Ratio Lower Upper
95 100
174 75.3 0.0 145.2
176 71.7 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 16

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion:117 Resp: 291586

Ion Ratio Lower Upper

117 100

82 59.6 47.2 70.8

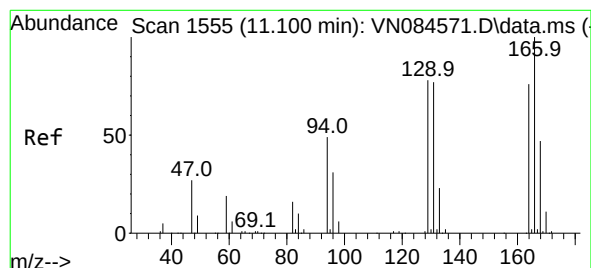
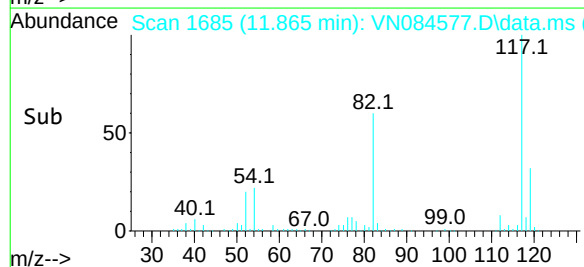
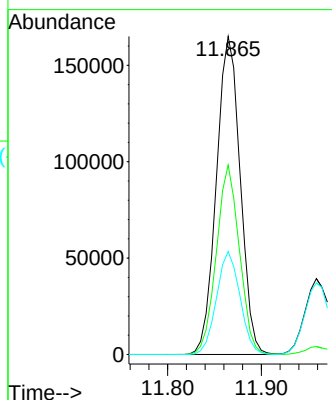
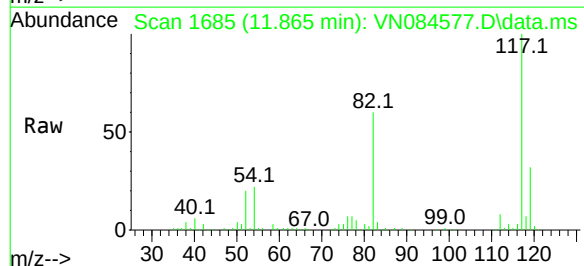
119 32.4 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#64

Tetrachloroethene

Concen: 45.436 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Tgt Ion:164 Resp: 88124

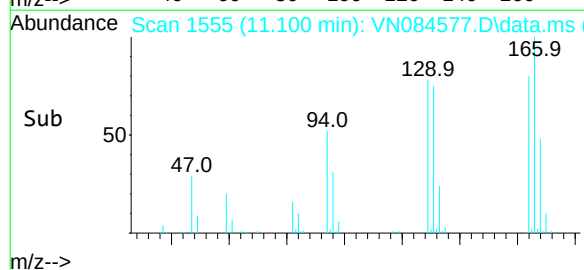
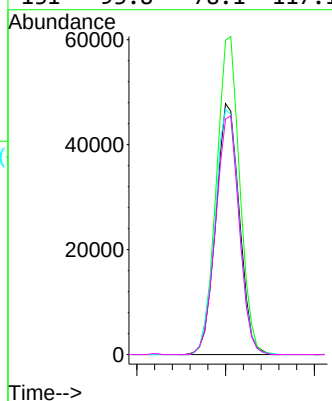
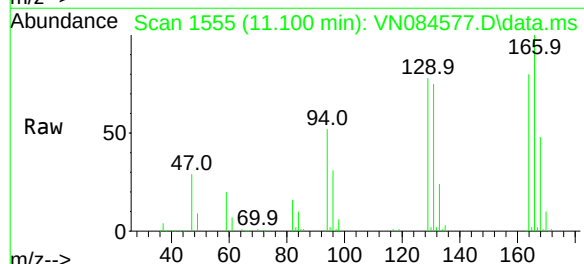
Ion Ratio Lower Upper

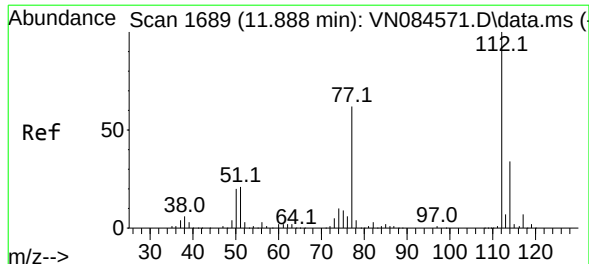
164 100

166 125.3 101.0 151.4

129 97.8 80.8 121.2

131 93.8 78.1 117.1





#65

Chlorobenzene

Concen: 44.872 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion:112 Resp: 292713

Ion Ratio Lower Upper

112 100

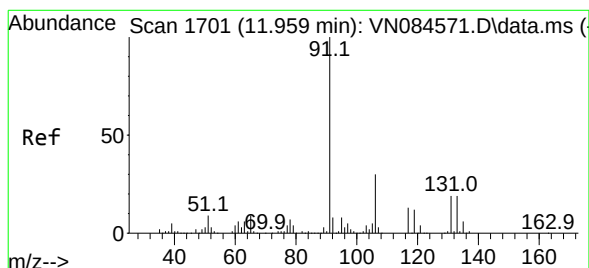
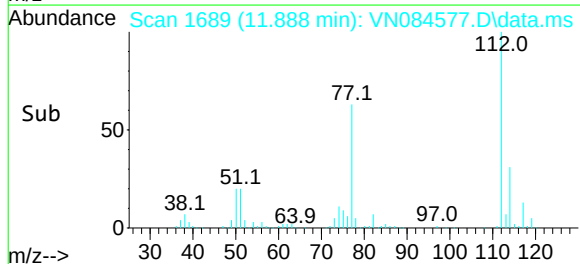
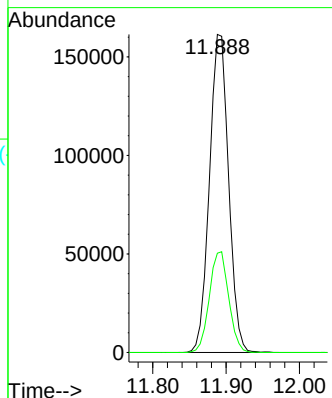
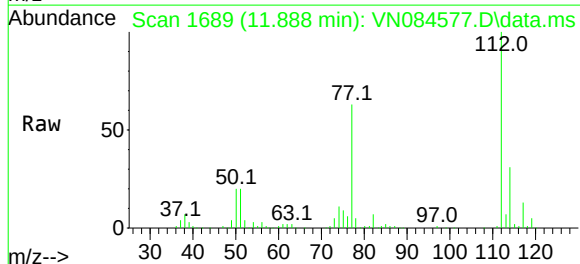
114 31.2 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 46.323 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

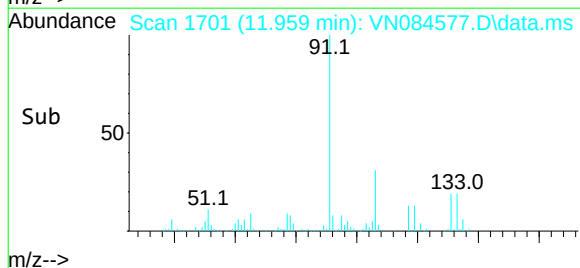
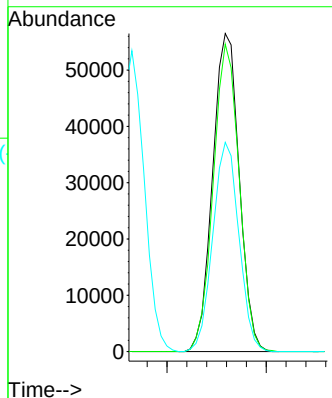
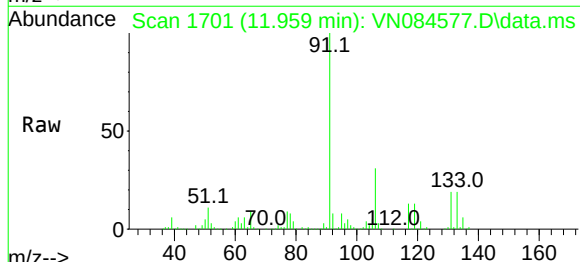
Tgt Ion:131 Resp: 105108

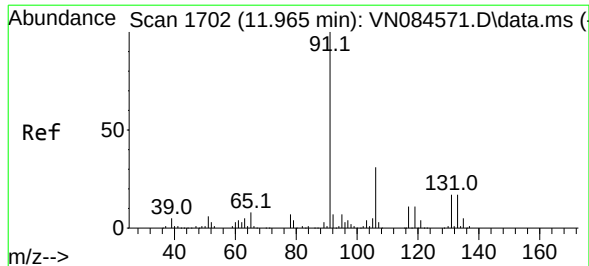
Ion Ratio Lower Upper

131 100

133 94.2 47.9 143.7

119 64.7 32.8 98.3





#67

Ethyl Benzene

Concen: 48.319 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.006 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion: 91 Resp: 526140

Ion Ratio Lower Upper

91 100

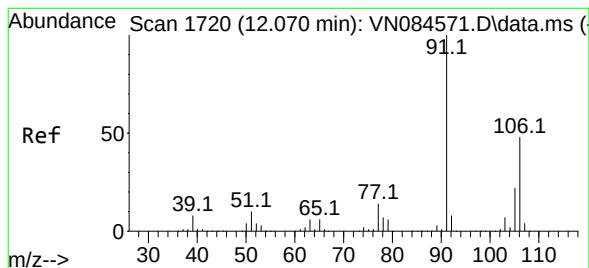
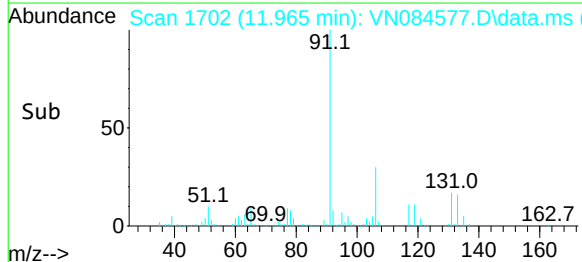
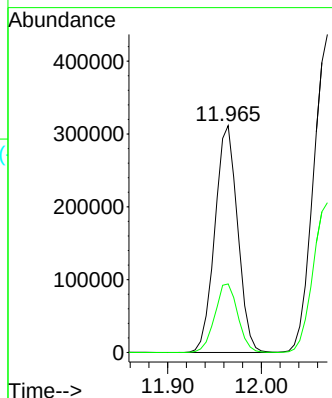
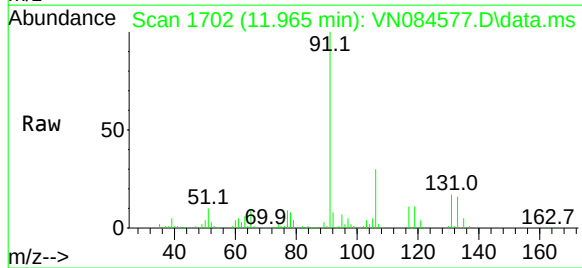
106 30.2 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#68

m/p-Xylenes

Concen: 98.979 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN084577.D

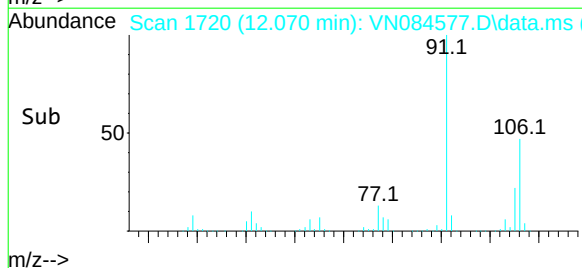
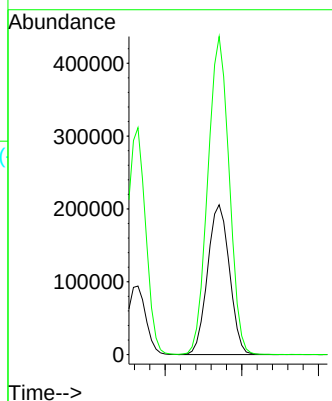
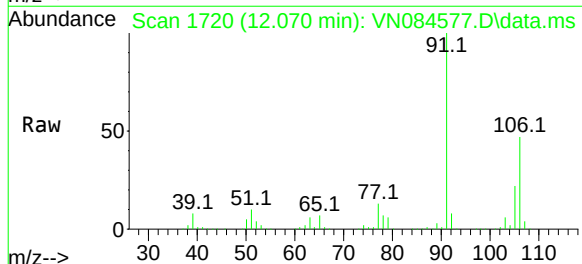
Acq: 30 Oct 2024 15:06

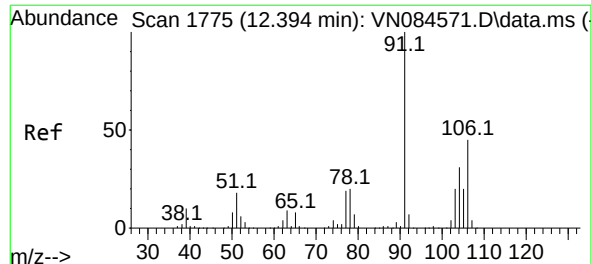
Tgt Ion:106 Resp: 408029

Ion Ratio Lower Upper

106 100

91 207.3 167.1 250.7





#69

o-Xylene

Concen: 50.538 ug/l

RT: 12.400 min Scan# 1775

Delta R.T. 0.006 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion:106 Resp: 194895

Ion Ratio Lower Upper

106 100

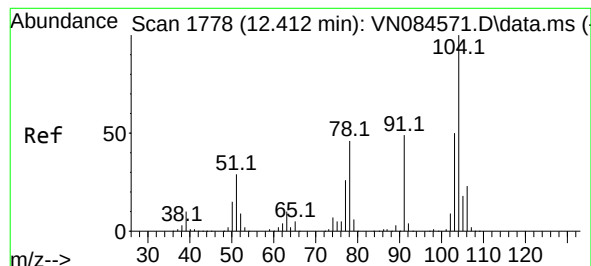
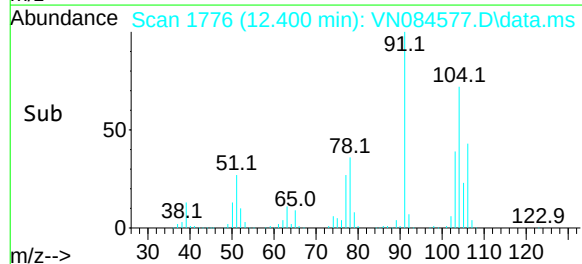
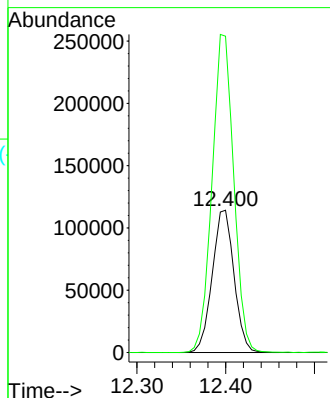
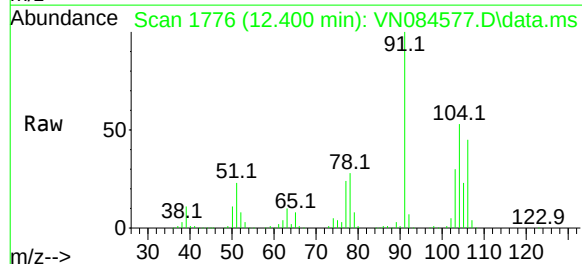
91 222.7 110.2 330.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#70

Styrene

Concen: 49.600 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

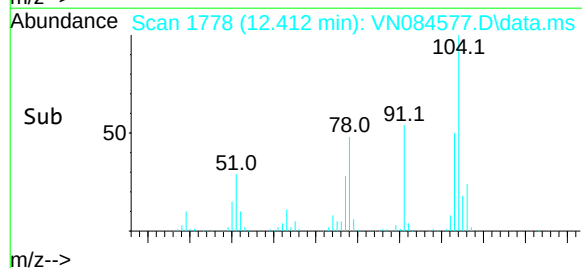
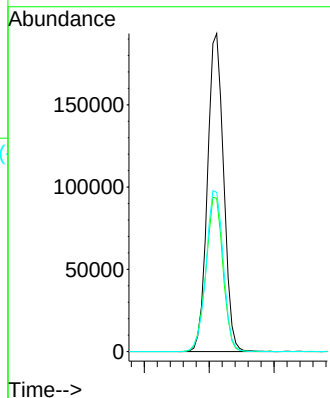
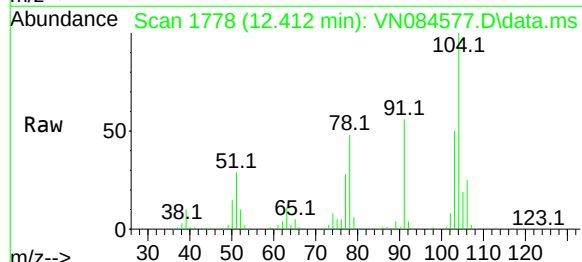
Tgt Ion:104 Resp: 333668

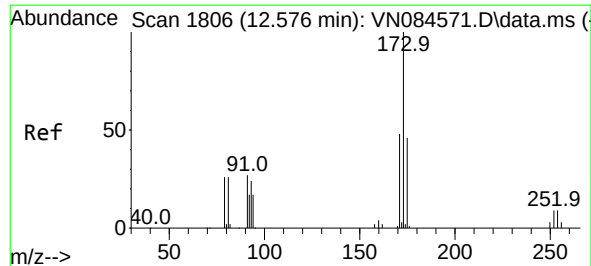
Ion Ratio Lower Upper

104 100

78 51.4 42.7 64.1

103 54.0 43.6 65.4





#71

Bromoform

Concen: 46.166 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

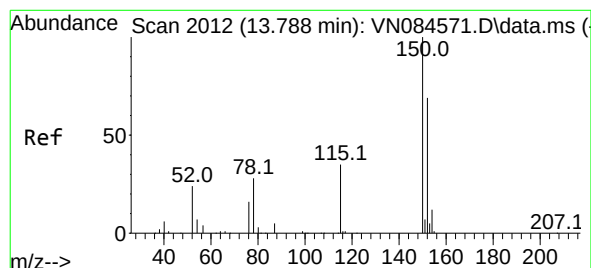
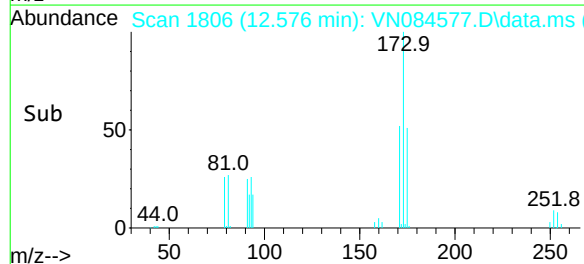
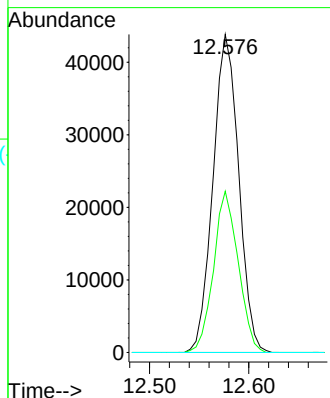
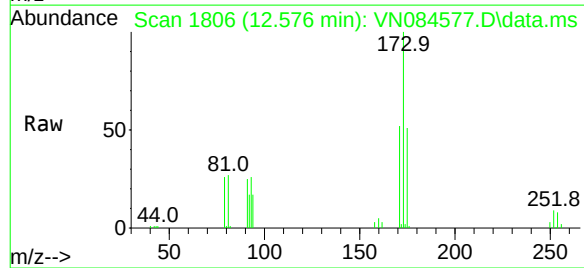
ICVVN103024

Tgt Ion:	173	Resp:	78822
Ion Ratio	Lower	Upper	
173	100		
175	48.7	23.5	70.6
254	0.0	0.0	0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

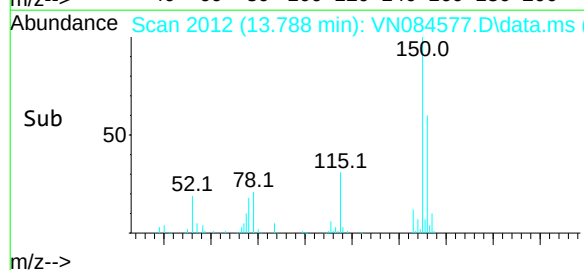
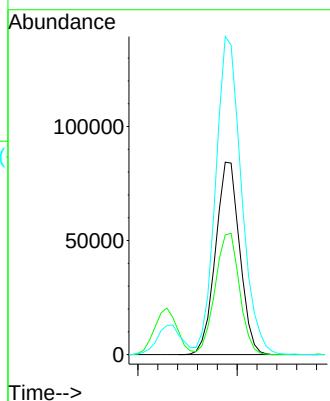
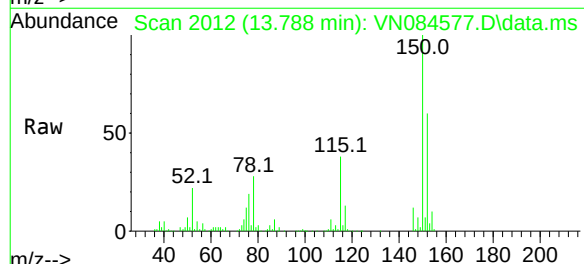
RT: 13.788 min Scan# 2012

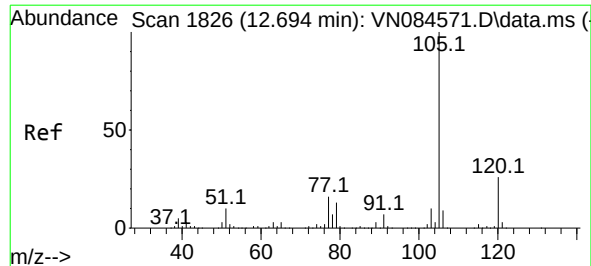
Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Tgt Ion:	152	Resp:	142817
Ion Ratio	Lower	Upper	
152	100		
115	63.4	31.3	93.9
150	176.6	0.0	349.8





#73

Isopropylbenzene

Concen: 49.063 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN084577.D

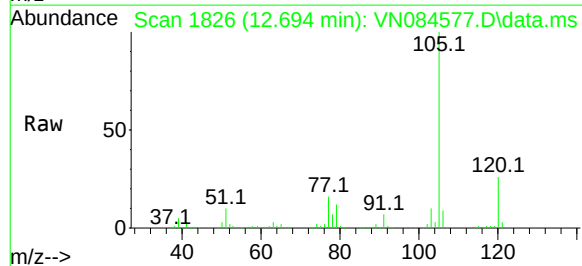
Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024



Tgt Ion: 105 Resp: 491033

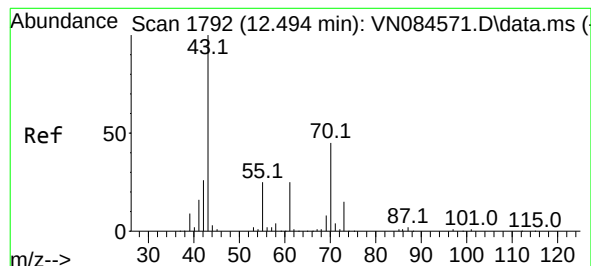
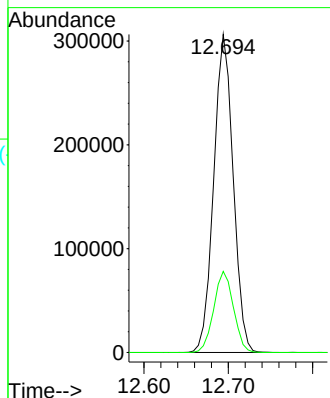
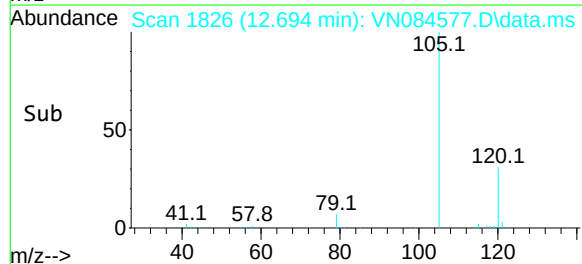
Ion Ratio Lower Upper

105 100

120 25.8 12.9 38.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#74

N-ethyl acetate

Concen: 49.076 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Tgt Ion: 43 Resp: 209049

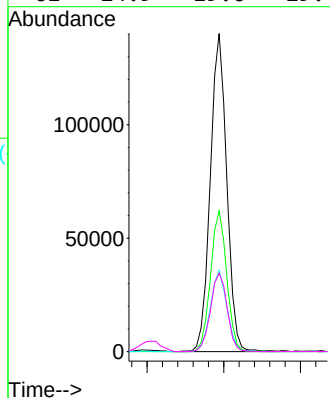
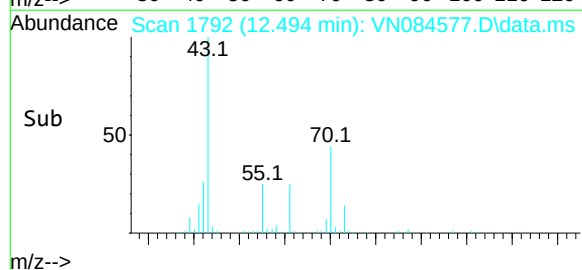
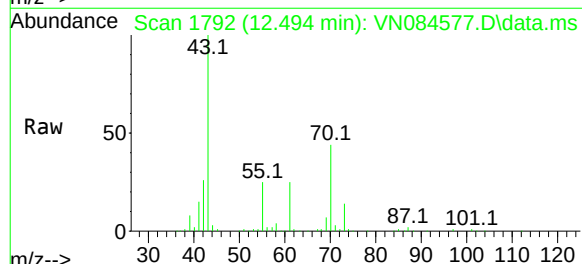
Ion Ratio Lower Upper

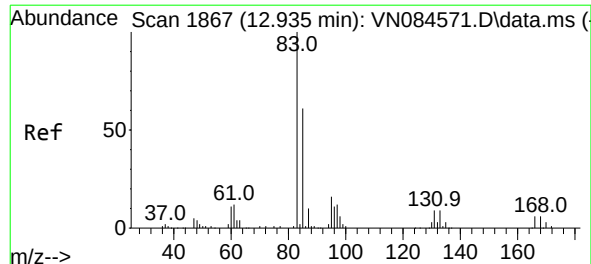
43 100

70 43.5 34.4 51.6

55 25.6 19.6 29.4

61 24.9 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 44.058 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

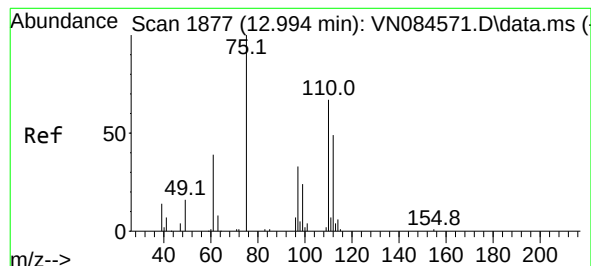
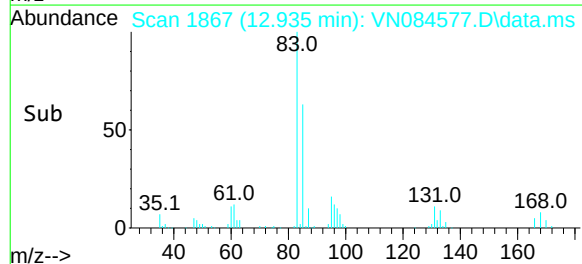
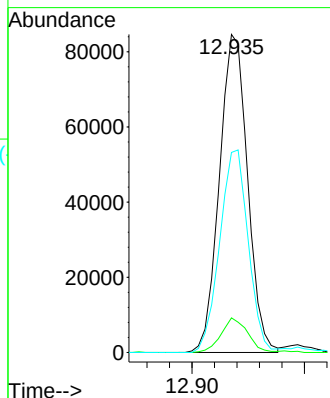
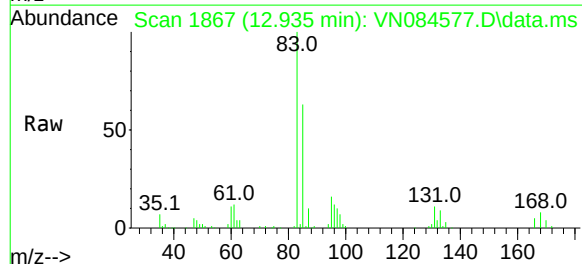
ClientSampleId :

ICVVN103024

Tgt Ion:	83	Resp:	147181
Ion	Ratio	Lower	Upper
83	100		
131	10.3	4.9	14.7
85	64.5	31.9	95.7

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#76

1,2,3-Trichloropropane

Concen: 42.988 ug/l m

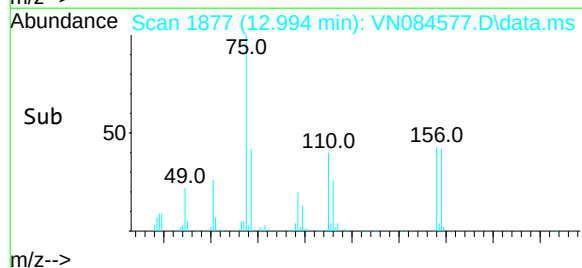
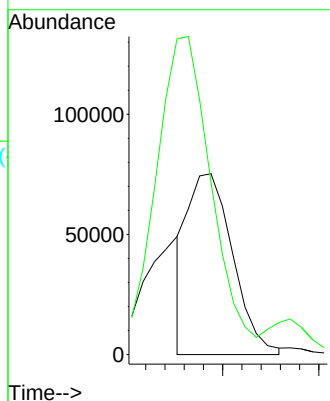
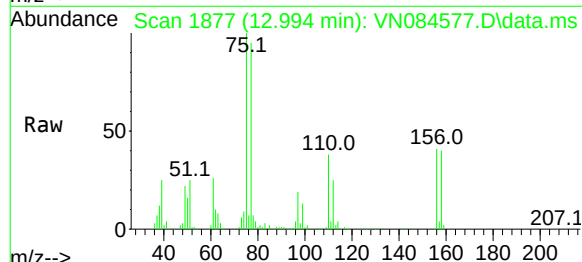
RT: 12.994 min Scan# 1877

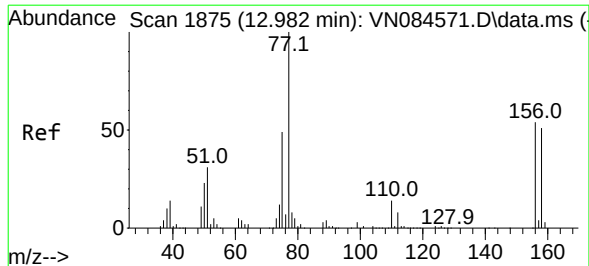
Delta R.T. 0.006 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Tgt Ion:	75	Resp:	122725
Ion	Ratio	Lower	Upper
75	100		
77	217.8	96.9	290.7





#77

Bromobenzene

Concen: 44.500 ug/l

RT: 12.976 min Scan# 1875

Delta R.T. -0.006 min

Lab File: VN084577.D

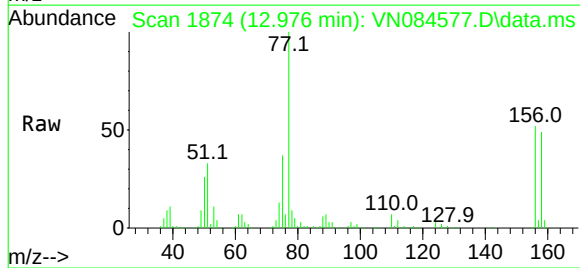
Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

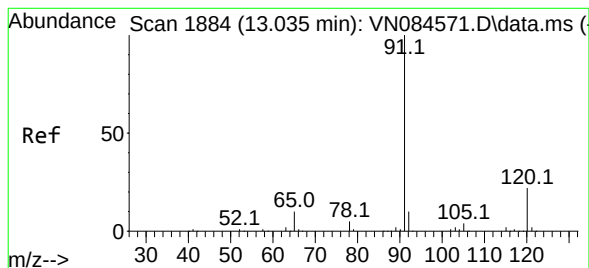
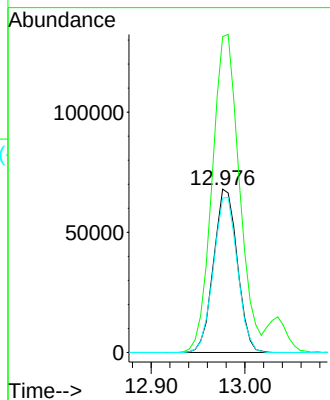
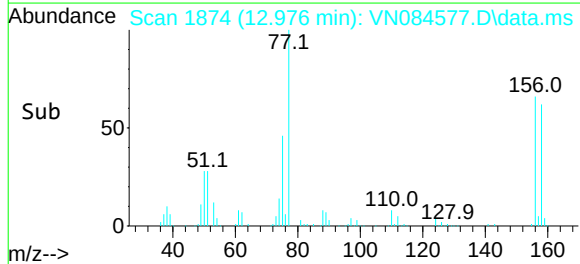
ICVVN103024



Tgt Ion:	156	Resp:	119728
Ion Ratio	Lower	Upper	
156	100		
77	223.2	115.1	345.3
158	96.3	48.9	146.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#78

n-propylbenzene

Concen: 49.156 ug/l

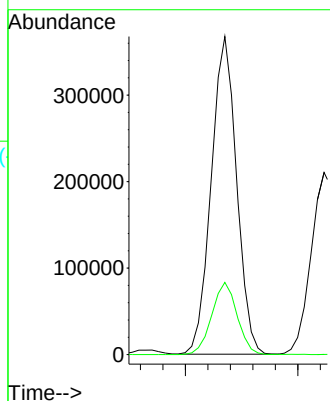
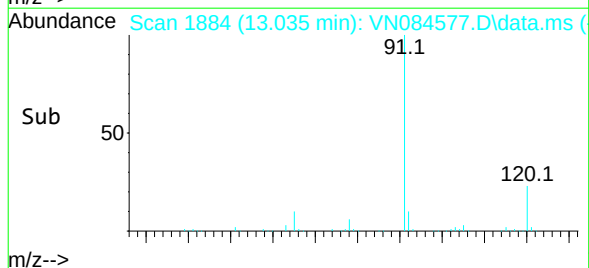
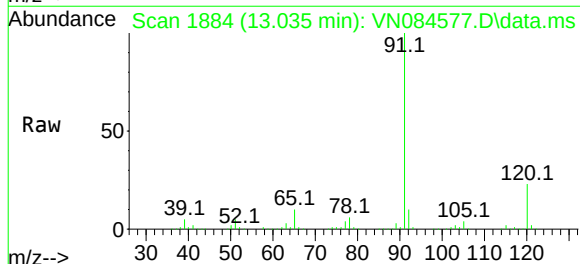
RT: 13.035 min Scan# 1884

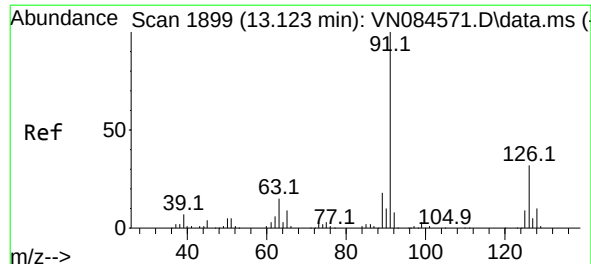
Delta R.T. 0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Tgt Ion:	91	Resp:	576495
Ion Ratio	Lower	Upper	
91	100		
120	22.7	10.8	32.4





#79

2-Chlorotoluene

Concen: 47.930 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion: 91 Resp: 367294

Ion Ratio Lower Upper

91 100

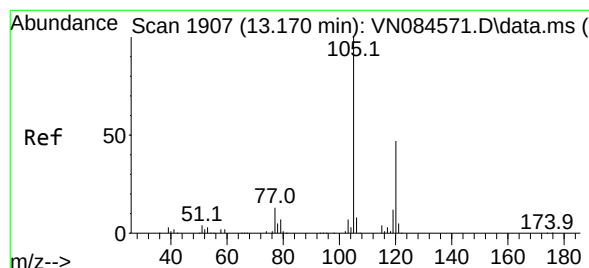
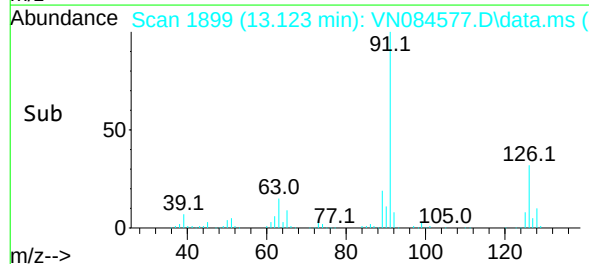
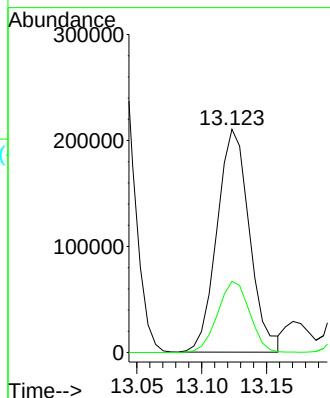
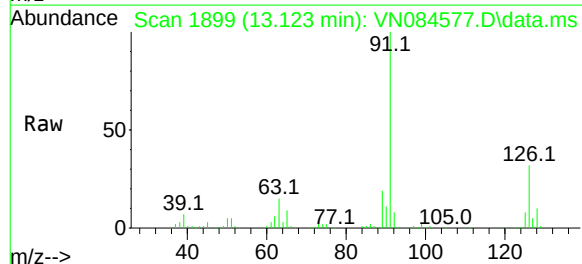
126 31.3 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#80

1,3,5-Trimethylbenzene

Concen: 50.714 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN084577.D

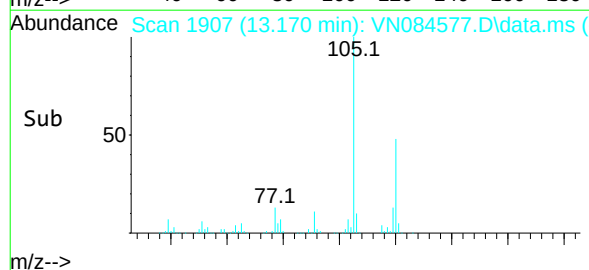
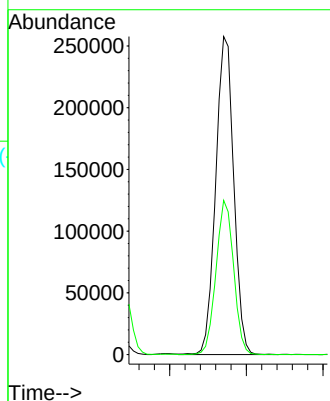
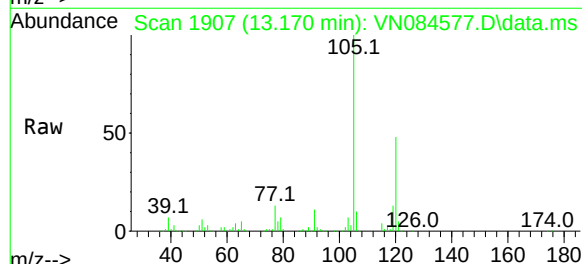
Acq: 30 Oct 2024 15:06

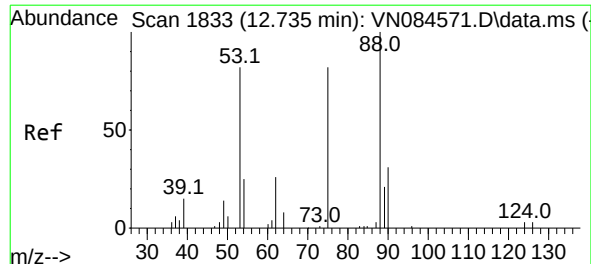
Tgt Ion:105 Resp: 420675

Ion Ratio Lower Upper

105 100

120 47.4 23.7 71.1





#81

trans-1,4-Dichloro-2-butene

Concen: 45.300 ug/l

RT: 12.735 min Scan# 18

Delta R.T. -0.000 min

Lab File: VN084577.D

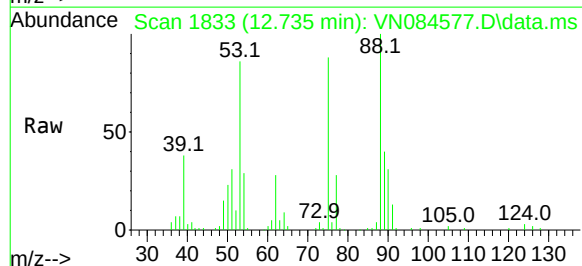
Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

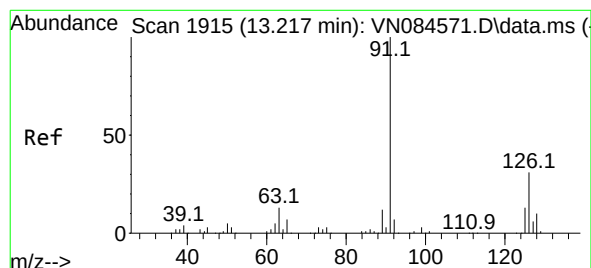
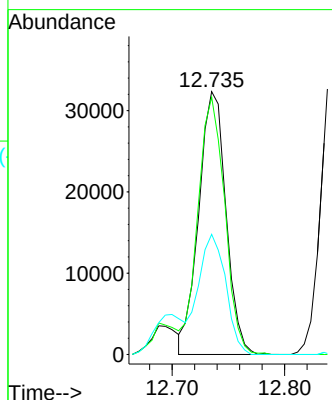
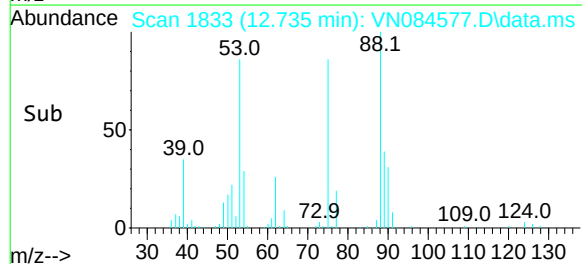
ICVVN103024



Tgt Ion:	75	Resp:	54512
Ion	Ratio	Lower	Upper
75	100		
53	96.4	78.0	117.0
89	45.7	35.5	53.3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#82

4-Chlorotoluene

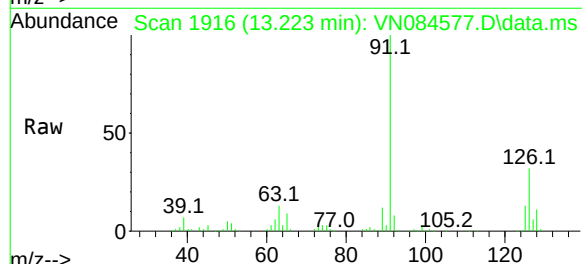
Concen: 44.837 ug/l

RT: 13.223 min Scan# 1916

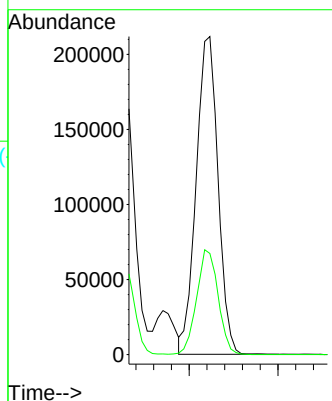
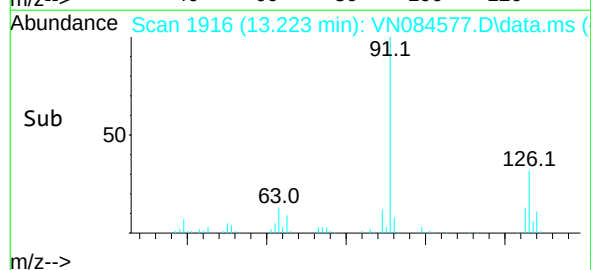
Delta R.T. 0.006 min

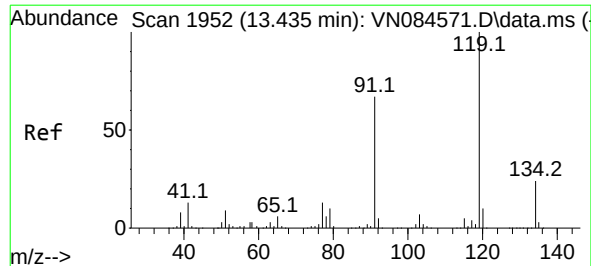
Lab File: VN084577.D

Acq: 30 Oct 2024 15:06



Tgt Ion:	91	Resp:	361596
Ion	Ratio	Lower	Upper
91	100		
126	32.5	15.7	47.1





#83

tert-Butylbenzene

Concen: 52.701 ug/l

RT: 13.435 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion:119 Resp: 361800

Ion Ratio Lower Upper

119 100

91 66.3 34.1 102.3

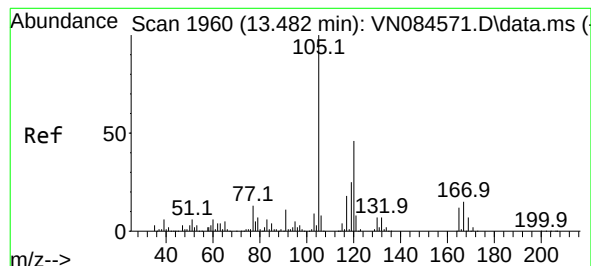
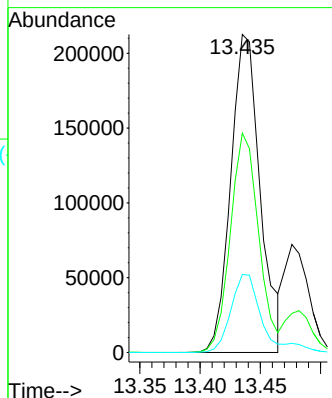
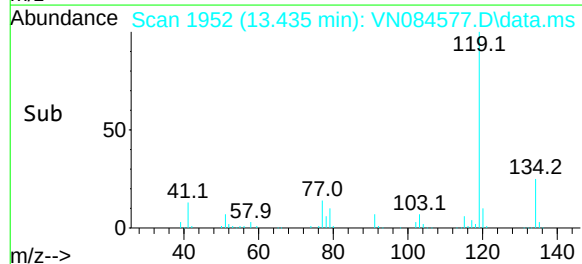
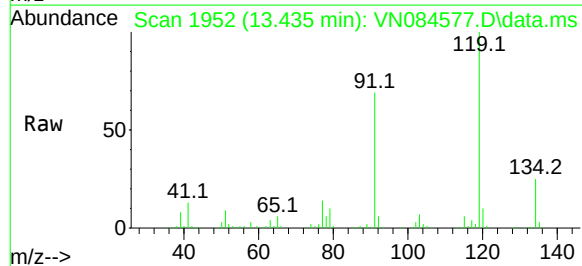
134 26.0 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#84

1,2,4-Trimethylbenzene

Concen: 50.053 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN084577.D

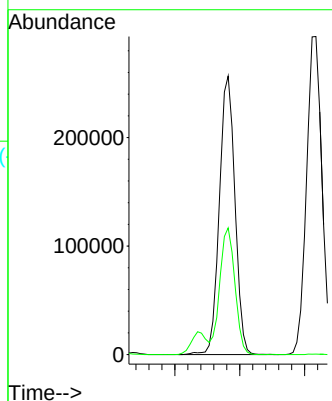
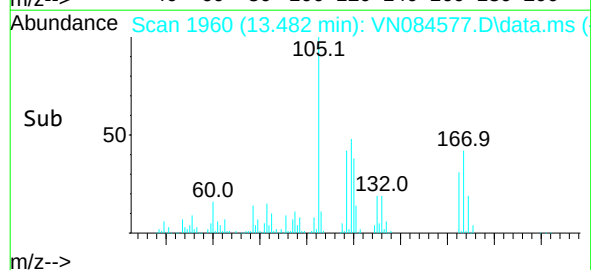
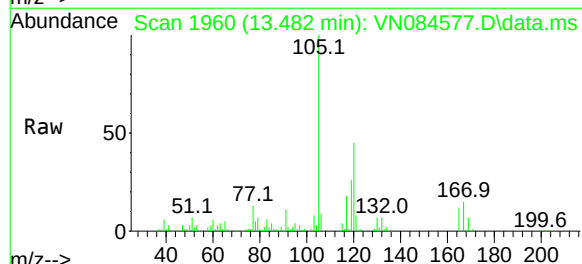
Acq: 30 Oct 2024 15:06

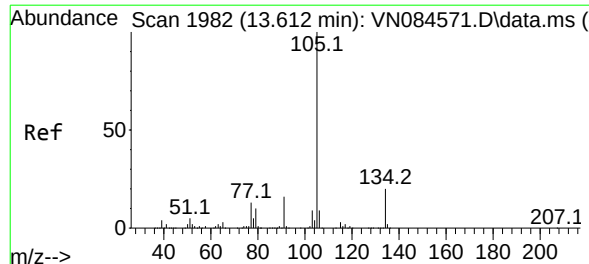
Tgt Ion:105 Resp: 428517

Ion Ratio Lower Upper

105 100

120 44.4 22.3 66.8





#85

sec-Butylbenzene

Concen: 49.829 ug/l

RT: 13.617 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024

Tgt Ion:105 Resp: 483212

Ion Ratio Lower Upper

105 100

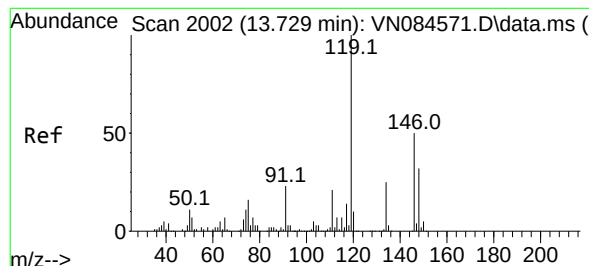
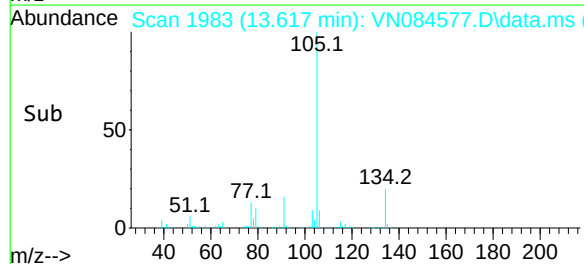
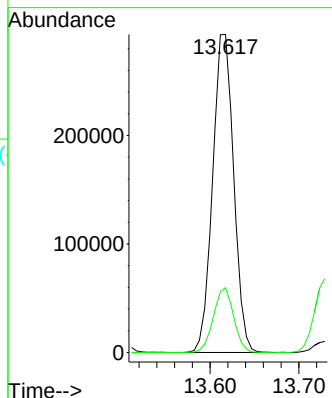
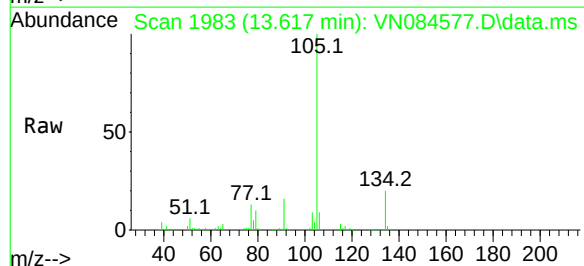
134 19.6 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#86

p-Isopropyltoluene

Concen: 51.568 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

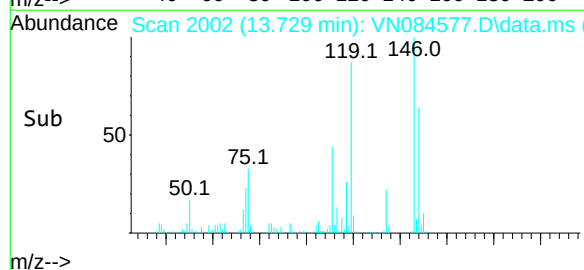
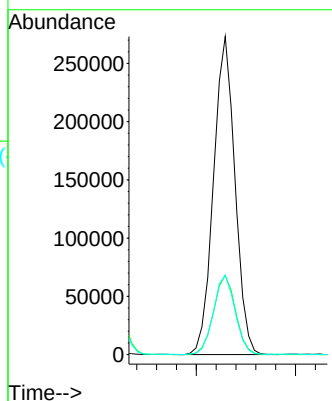
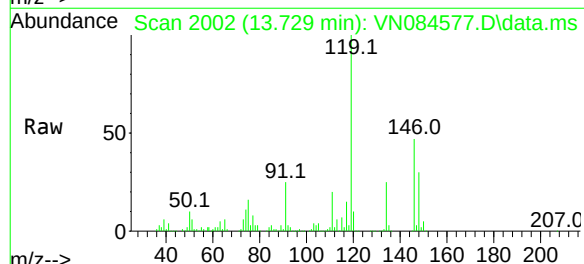
Tgt Ion:119 Resp: 410129

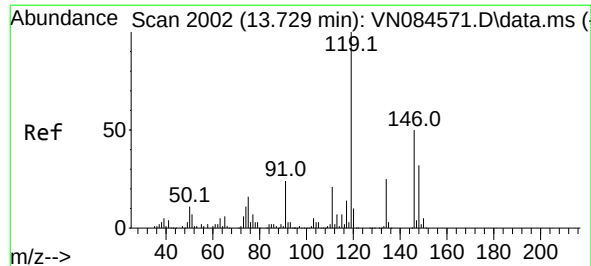
Ion Ratio Lower Upper

119 100

134 25.5 12.6 37.8

91 25.0 12.4 37.2





#87

1,3-Dichlorobenzene

Concen: 41.852 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

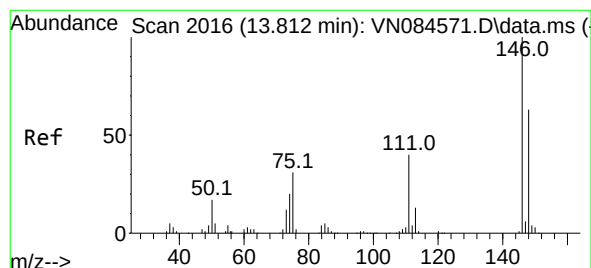
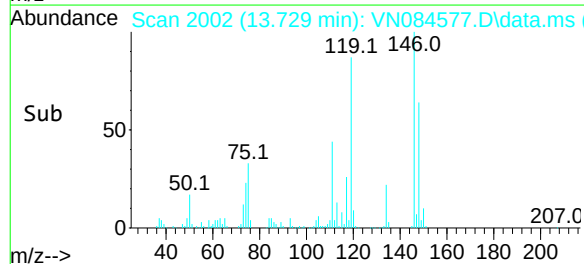
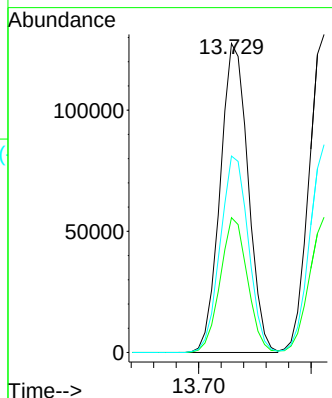
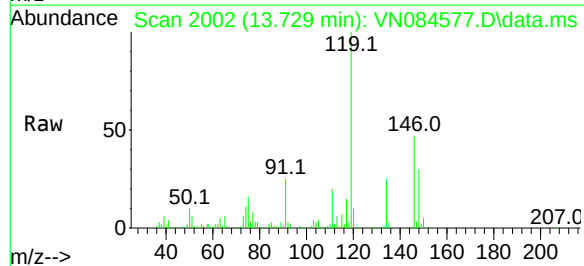
ICVVN103024

Tgt Ion:	146	Resp:	219757
Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.8	65.3
148	64.2	31.9	95.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#88

1,4-Dichlorobenzene

Concen: 45.904 ug/l

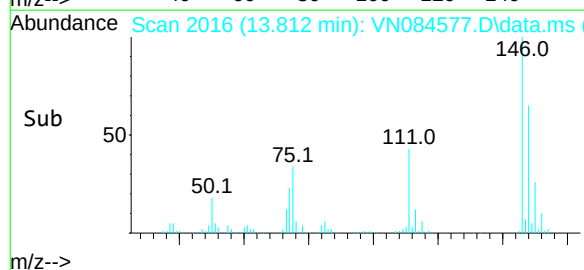
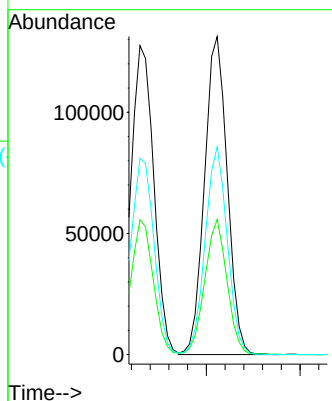
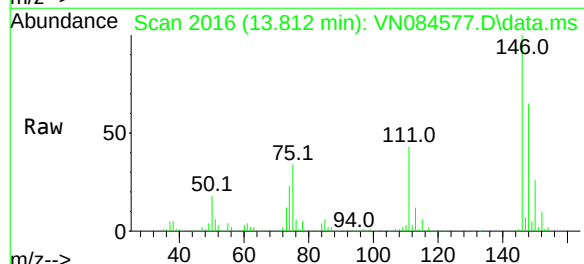
RT: 13.812 min Scan# 2016

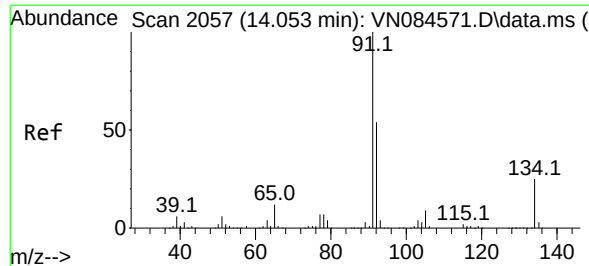
Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Tgt Ion:	146	Resp:	221608
Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.2	63.6
148	63.7	31.9	95.9





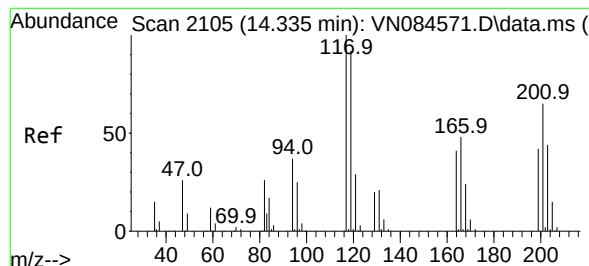
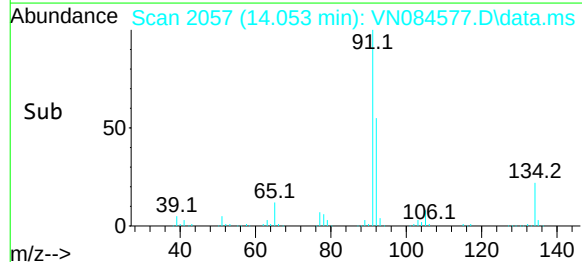
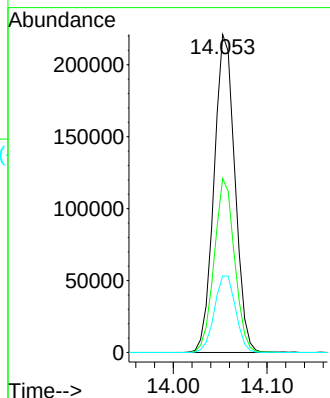
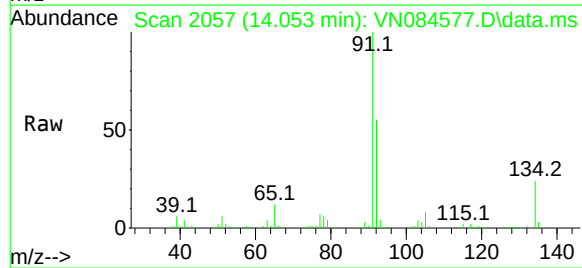
#89
n-Butylbenzene
Concen: 45.941 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN084577.D
Acq: 30 Oct 2024 15:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Tgt Ion:	91	Resp:	341775
Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.6	79.7
134	24.5	12.3	36.9

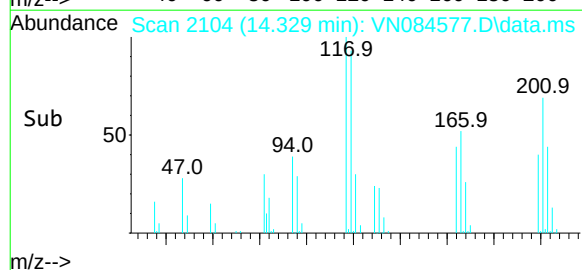
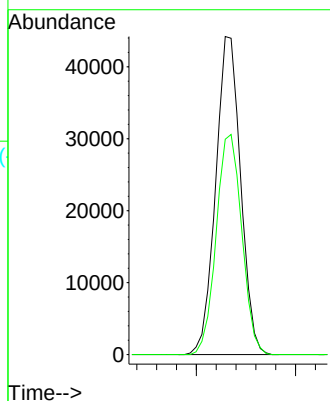
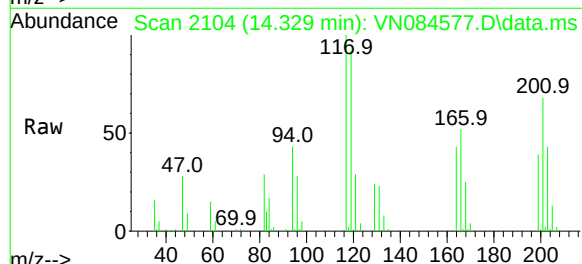
Manual Integrations
APPROVED

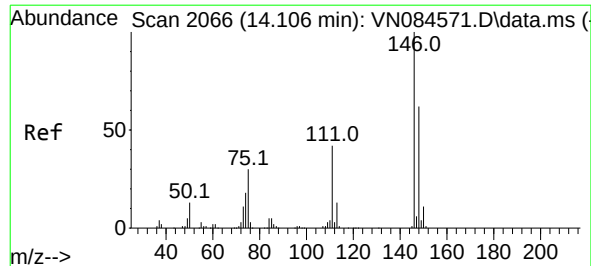
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#90
Hexachloroethane
Concen: 43.597 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN084577.D
Acq: 30 Oct 2024 15:06

Tgt Ion:	117	Resp:	77324
Ion	Ratio	Lower	Upper
117	100		
201	70.8	34.4	103.2





#91

1,2-Dichlorobenzene

Concen: 43.765 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

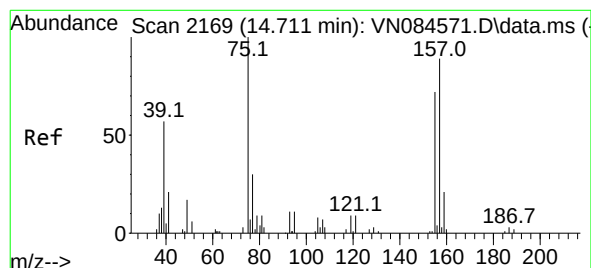
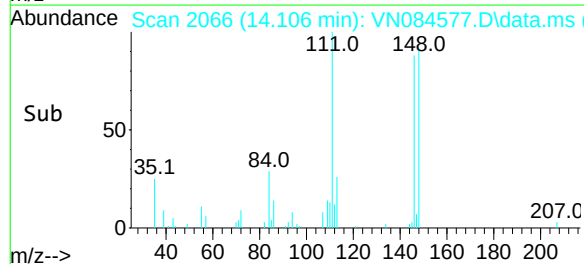
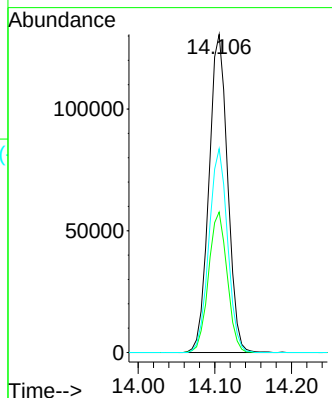
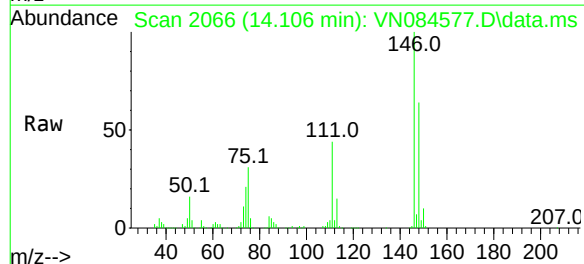
ClientSampleId :

ICVVN103024

Tgt Ion:	146	Resp:	220824
Ion	Ratio	Lower	Upper
146	100		
111	44.0	22.0	66.0
148	63.8	32.1	96.3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 45.651 ug/l

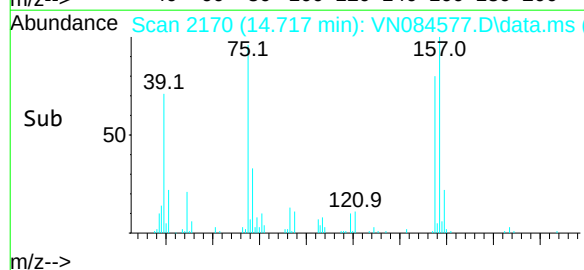
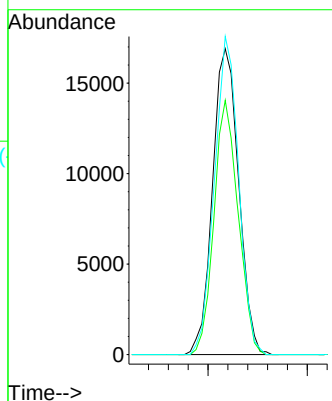
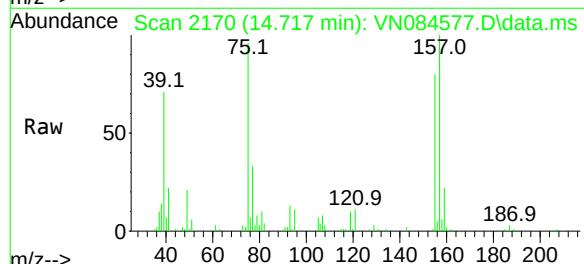
RT: 14.717 min Scan# 2170

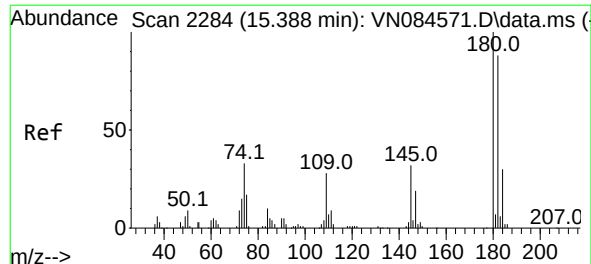
Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Tgt Ion:	75	Resp:	30895
Ion	Ratio	Lower	Upper
75	100		
155	77.1	38.1	114.5
157	96.4	49.6	149.0





#93

1,2,4-Trichlorobenzene

Concen: 40.290 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. -0.000 min

Lab File: VN084577.D

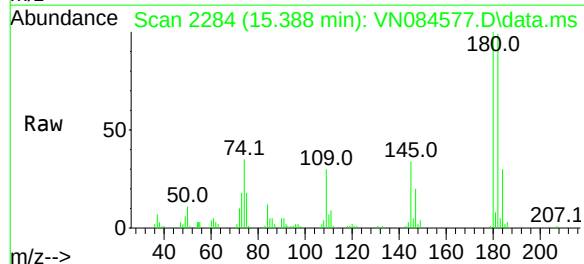
Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103024



Tgt Ion:180 Resp: 111270

Ion Ratio Lower Upper

180 100

182 96.3 47.0 141.0

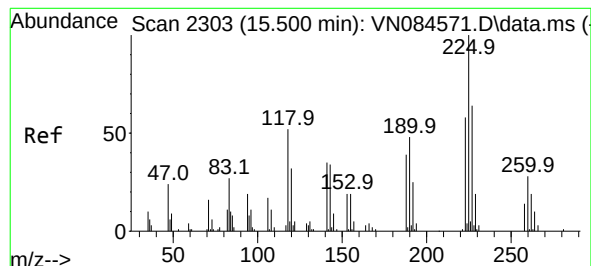
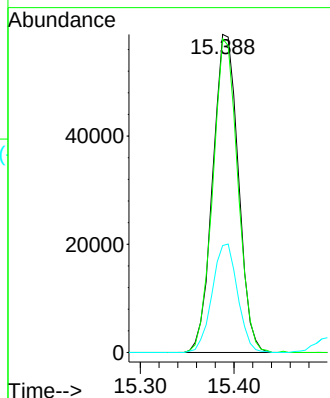
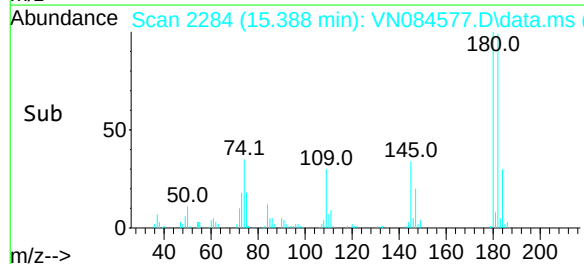
145 34.0 16.4 49.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#94

Hexachlorobutadiene

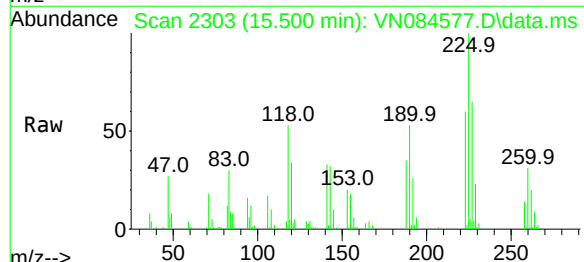
Concen: 39.544 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06



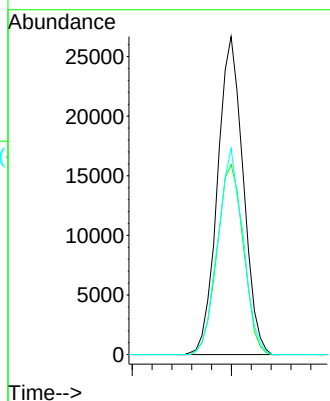
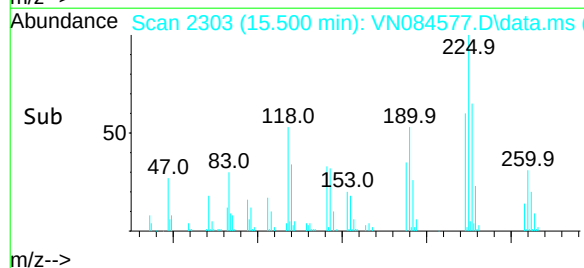
Tgt Ion:225 Resp: 47959

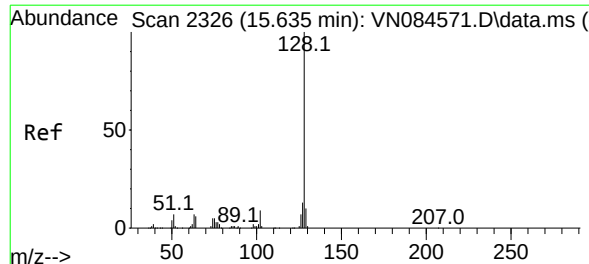
Ion Ratio Lower Upper

225 100

223 61.4 32.4 97.2

227 63.6 32.4 97.0





#95

Naphthalene

Concen: 45.408 ug/l

RT: 15.641 min Scan# 2326

Delta R.T. 0.006 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Instrument :

MSVOA_N

ClientSampleId :

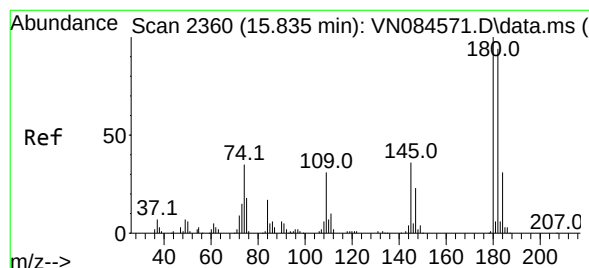
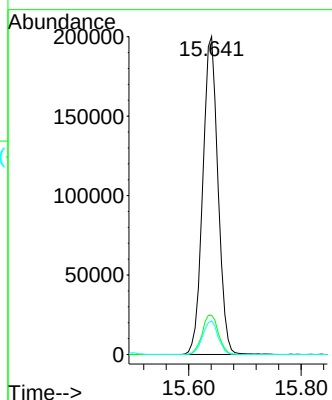
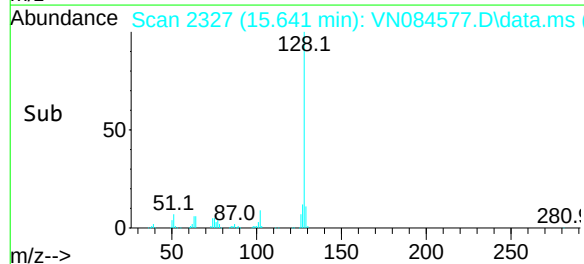
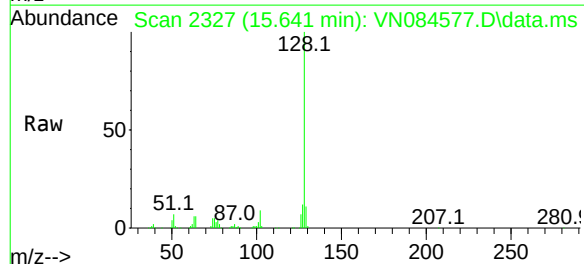
ICVVN103024

Tgt Ion:	128	Resp:	375360
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.5	15.7
129	10.7	8.7	13.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#96

1,2,3-Trichlorobenzene

Concen: 40.595 ug/l

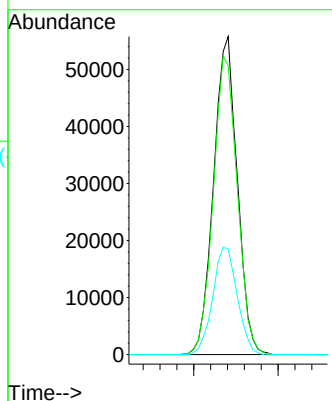
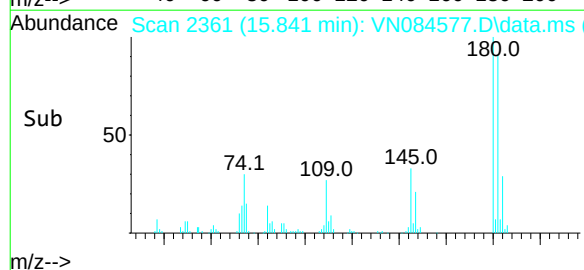
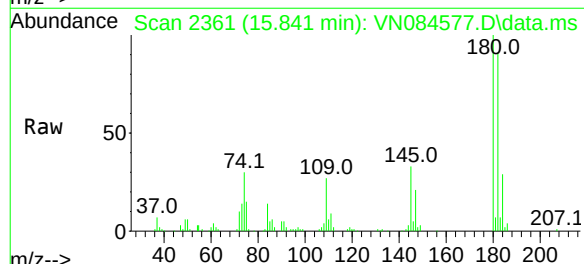
RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN084577.D

Acq: 30 Oct 2024 15:06

Tgt Ion:	180	Resp:	108830
Ion Ratio	Lower	Upper	
180	100		
182	95.2	48.2	144.6
145	35.0	17.3	51.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084577.D
 Acq On : 30 Oct 2024 15:06
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN103024

Quant Time: Oct 31 18:28:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:24:48 2024
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	103	0.00
2 T	Dichlorodifluoromethane	0.575	0.529	8.0	99	0.00
3 P	Chloromethane	0.952	0.614	35.5#	94	0.00
4 C	Vinyl Chloride	0.618	0.574	7.1#	98	0.00
5 T	Bromomethane	0.328	0.285	13.1	99	-0.05
6 T	Chloroethane	0.488	0.356	27.0#	97	-0.05
7 T	Trichlorofluoromethane	1.018	0.930	8.6	100	-0.02
8 T	Diethyl Ether	0.359	0.335	6.7	98	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.575	0.526	8.5	97	-0.01
10 T	Methyl Iodide	0.769	0.716	6.9	100	-0.02
11 T	Tert butyl alcohol	0.095	0.084	11.6	100	0.01
12 CM	1,1-Dichloroethene	0.569	0.516	9.3#	99	-0.01
13 T	Acrolein	0.095	0.083	12.6	97	0.00
14 T	Allyl chloride	0.923	0.886	4.0	100	-0.01
15 T	Acrylonitrile	0.276	0.261	5.4	99	0.00
16 T	Acetone	0.238	0.204	14.3	103	0.00
17 T	Carbon Disulfide	1.753	1.497	14.6	96	-0.01
18 T	Methyl Acetate	1.172	0.691	41.0#	95	0.00
19 T	Methyl tert-butyl Ether	1.745	1.696	2.8	99	0.00
20 T	Methylene Chloride	0.635	0.581	8.5	99	-0.01
21 T	trans-1,2-Dichloroethene	0.585	0.526	10.1	96	-0.01
22 T	Diisopropyl ether	1.835	1.789	2.5	99	0.00
23 T	Vinyl Acetate	1.265	1.253	0.9	99	0.00
24 P	1,1-Dichloroethane	1.102	1.022	7.3	99	-0.01
25 T	2-Butanone	0.337	0.320	5.0	105	0.00
26 T	2,2-Dichloropropane	0.959	0.865	9.8	95	0.00
27 T	cis-1,2-Dichloroethene	0.683	0.631	7.6	98	0.00
28 T	Bromochloromethane	0.439	0.483	-10.0	97	0.00
29 T	Tetrahydrofuran	0.224	0.220	1.8	102	0.00
30 C	Chloroform	1.121	1.061	5.4#	101	0.00
31 T	Cyclohexane	0.997	0.898	9.9	99	0.00
32 T	1,1,1-Trichloroethane	1.021	0.955	6.5	99	0.00
33 S	1,2-Dichloroethane-d4	0.722	0.687	4.8	98	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
35 S	Dibromofluoromethane	0.338	0.322	4.7	97	0.00
36 T	1,1-Dichloropropene	0.469	0.435	7.2	100	0.00
37 T	Ethyl Acetate	0.426	0.410	3.8	101	0.00
38 T	Carbon Tetrachloride	0.525	0.484	7.8	98	0.00
39 T	Methylcyclohexane	0.478	0.477	0.2	98	0.00
40 TM	Benzene	1.507	1.395	7.4	100	0.00
41 T	Methacrylonitrile	0.229	0.238	-3.9	101	0.00
42 TM	1,2-Dichloroethane	0.488	0.460	5.7	97	0.00
43 T	Isopropyl Acetate	0.927	0.717	22.7	99	0.00
44 TM	Trichloroethene	0.348	0.311	10.6	97	0.00
45 C	1,2-Dichloropropane	0.354	0.334	5.6#	100	0.00
46 T	Dibromomethane	0.250	0.229	8.4	98	0.00
47 T	Bromodichloromethane	0.526	0.490	6.8	98	0.00
48 T	Methyl methacrylate	0.331	0.338	-2.1	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084577.D
 Acq On : 30 Oct 2024 15:06
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN103024

Quant Time: Oct 31 18:28:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:24:48 2024
 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	107	0.00
50 S	Toluene-d8	1.247	1.206	3.3	96	0.00
51 T	4-Methyl-2-Pentanone	0.406	0.410	-1.0	101	0.00
52 CM	Toluene	0.882	0.857	2.8#	99	0.00
53 T	t-1,3-Dichloropropene	0.544	0.500	8.1	96	0.00
54 T	cis-1,3-Dichloropropene	0.576	0.540	6.2	97	0.00
55 T	1,1,2-Trichloroethane	0.332	0.316	4.8	100	0.00
56 T	Ethyl methacrylate	0.480	0.507	-5.6	98	0.00
57 T	1,3-Dichloropropane	0.570	0.544	4.6	100	0.00
58 T	2-Chloroethyl Vinyl ether	0.225	0.252	-12.0	100	0.00
59 T	2-Hexanone	0.296	0.302	-2.0	101	0.00
60 T	Dibromochloromethane	0.378	0.372	1.6	98	0.00
61 T	1,2-Dibromoethane	0.340	0.316	7.1	98	0.00
62 S	4-Bromofluorobenzene	0.466	0.445	4.5	94	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
64 T	Tetrachloroethene	0.333	0.302	9.3	101	0.00
65 PM	Chlorobenzene	1.119	1.004	10.3	99	0.00
66 T	1,1,1,2-Tetrachloroethane	0.389	0.360	7.5	100	0.00
67 C	Ethyl Benzene	1.867	1.804	3.4#	100	0.00
68 T	m/p-Xylenes	0.707	0.700	1.0	100	0.00
69 T	o-Xylene	0.661	0.668	-1.1	101	0.00
70 T	Styrene	1.154	1.144	0.9	99	0.00
71 P	Bromoform	0.293	0.270	7.8	96	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73 T	Isopropylbenzene	3.504	3.438	1.9	99	0.00
74 T	N-amyl acetate	1.491	1.464	1.8	99	0.00
75 P	1,1,2,2-Tetrachloroethane	1.170	1.031	11.9	99	0.00
76 T	1,2,3-Trichloropropane	0.999	0.859	14.0	100	0.00
77 T	Bromobenzene	0.942	0.838	11.0	98	0.00
78 T	n-propylbenzene	4.106	4.037	1.7	98	0.00
79 T	2-Chlorotoluene	2.683	2.572	4.1	101	0.00
80 T	1,3,5-Trimethylbenzene	2.904	2.946	-1.4	99	0.00
81 T	trans-1,4-Dichloro-2-butene	0.421	0.382	9.3	98	0.00
82 T	4-Chlorotoluene	2.823	2.532	10.3	96	0.00
83 T	tert-Butylbenzene	2.403	2.533	-5.4	103	0.00
84 T	1,2,4-Trimethylbenzene	2.997	3.000	-0.1	98	0.00
85 T	sec-Butylbenzene	3.395	3.383	0.4	99	0.00
86 T	p-Isopropyltoluene	2.784	2.872	-3.2	97	0.00
87 T	1,3-Dichlorobenzene	1.838	1.539	16.3	95	0.00
88 T	1,4-Dichlorobenzene	1.937	1.552	19.9	96	0.00
89 T	n-Butylbenzene	2.605	2.393	8.1	94	0.00
90 T	Hexachloroethane	0.621	0.541	12.9	95	0.00
91 T	1,2-Dichlorobenzene	1.766	1.546	12.5	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.237	0.216	8.9	103	0.00
93 T	1,2,4-Trichlorobenzene	0.967	0.779	19.4	93	0.00
94 T	Hexachlorobutadiene	0.425	0.336	20.9	94	0.00
95 T	Naphthalene	2.894	2.628	9.2	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
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	0.939	0.762	18.8	94	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084577.D
 Acq On : 30 Oct 2024 15:06
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN103024

Quant Time: Oct 31 18:28:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:24:48 2024
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	103	0.00
2 T	Dichlorodifluoromethane	50.000	45.985	8.0	99	0.00
3 P	Chloromethane	50.000	45.299	9.4	94	0.00
4 C	Vinyl Chloride	50.000	46.430	7.1#	98	0.00
5 T	Bromomethane	50.000	43.494	13.0	99	-0.05
6 T	Chloroethane	50.000	46.348	7.3	97	-0.05
7 T	Trichlorofluoromethane	50.000	45.644	8.7	100	-0.02
8 T	Diethyl Ether	50.000	46.640	6.7	98	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	45.702	8.6	97	-0.01
10 T	Methyl Iodide	50.000	46.542	6.9	100	-0.02
11 T	Tert butyl alcohol	250.000	219.840	12.1	100	0.01
12 CM	1,1-Dichloroethene	50.000	45.338	9.3#	99	-0.01
13 T	Acrolein	250.000	218.362	12.7	97	0.00
14 T	Allyl chloride	50.000	47.975	4.0	100	-0.01
15 T	Acrylonitrile	250.000	236.747	5.3	99	0.00
16 T	Acetone	250.000	244.445	2.2	103	0.00
17 T	Carbon Disulfide	50.000	42.682	14.6	96	-0.01
18 T	Methyl Acetate	50.000	44.944	10.1	95	0.00
19 T	Methyl tert-butyl Ether	50.000	48.603	2.8	99	0.00
20 T	Methylene Chloride	50.000	45.716	8.6	99	-0.01
21 T	trans-1,2-Dichloroethene	50.000	45.019	10.0	96	-0.01
22 T	Diisopropyl ether	50.000	48.739	2.5	99	0.00
23 T	Vinyl Acetate	250.000	247.614	1.0	99	0.00
24 P	1,1-Dichloroethane	50.000	46.408	7.2	99	-0.01
25 T	2-Butanone	250.000	237.635	4.9	105	0.00
26 T	2,2-Dichloropropane	50.000	45.103	9.8	95	0.00
27 T	cis-1,2-Dichloroethene	50.000	46.214	7.6	98	0.00
28 T	Bromochloromethane	50.000	54.971	-9.9	97	0.00
29 T	Tetrahydrofuran	250.000	245.822	1.7	102	0.00
30 C	Chloroform	50.000	47.316	5.4#	101	0.00
31 T	Cyclohexane	50.000	45.053	9.9	99	0.00
32 T	1,1,1-Trichloroethane	50.000	46.774	6.5	99	0.00
33 S	1,2-Dichloroethane-d4	50.000	47.560	4.9	98	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	104	0.00
35 S	Dibromofluoromethane	50.000	47.522	5.0	97	0.00
36 T	1,1-Dichloropropene	50.000	46.370	7.3	100	0.00
37 T	Ethyl Acetate	50.000	48.154	3.7	101	0.00
38 T	Carbon Tetrachloride	50.000	46.145	7.7	98	0.00
39 T	Methylcyclohexane	50.000	49.969	0.1	98	0.00
40 TM	Benzene	50.000	46.273	7.5	100	0.00
41 T	Methacrylonitrile	50.000	51.964	-3.9	101	0.00
42 TM	1,2-Dichloroethane	50.000	47.118	5.8	97	0.00
43 T	Isopropyl Acetate	50.000	45.492	9.0	99	0.00
44 TM	Trichloroethene	50.000	44.732	10.5	97	0.00
45 C	1,2-Dichloropropane	50.000	47.196	5.6#	100	0.00
46 T	Dibromomethane	50.000	45.911	8.2	98	0.00
47 T	Bromodichloromethane	50.000	46.560	6.9	98	0.00
48 T	Methyl methacrylate	50.000	51.057	-2.1	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084577.D
 Acq On : 30 Oct 2024 15:06
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN103024

Quant Time: Oct 31 18:28:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:24:48 2024
 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	1063.992	-6.4	107	0.00
50 S	Toluene-d8	50.000	48.359	3.3	96	0.00
51 T	4-Methyl-2-Pentanone	250.000	252.729	-1.1	101	0.00
52 CM	Toluene	50.000	48.616	2.8#	99	0.00
53 T	t-1,3-Dichloropropene	50.000	45.911	8.2	96	0.00
54 T	cis-1,3-Dichloropropene	50.000	46.832	6.3	97	0.00
55 T	1,1,2-Trichloroethane	50.000	47.618	4.8	100	0.00
56 T	Ethyl methacrylate	50.000	52.764	-5.5	98	0.00
57 T	1,3-Dichloropropane	50.000	47.765	4.5	100	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	280.013	-12.0	100	0.00
59 T	2-Hexanone	250.000	255.570	-2.2	101	0.00
60 T	Dibromochloromethane	50.000	49.079	1.8	98	0.00
61 T	1,2-Dibromoethane	50.000	46.393	7.2	98	0.00
62 S	4-Bromofluorobenzene	50.000	47.715	4.6	94	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
64 T	Tetrachloroethene	50.000	45.436	9.1	101	0.00
65 PM	Chlorobenzene	50.000	44.872	10.3	99	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	46.323	7.4	100	0.00
67 C	Ethyl Benzene	50.000	48.319	3.4#	100	0.00
68 T	m/p-Xylenes	100.000	98.979	1.0	100	0.00
69 T	o-Xylene	50.000	50.538	-1.1	101	0.00
70 T	Styrene	50.000	49.600	0.8	99	0.00
71 P	Bromoform	50.000	46.166	7.7	96	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73 T	Isopropylbenzene	50.000	49.063	1.9	99	0.00
74 T	N-amyl acetate	50.000	49.076	1.8	99	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	44.058	11.9	99	0.00
76 T	1,2,3-Trichloropropane	50.000	42.988	14.0	100	0.00
77 T	Bromobenzene	50.000	44.500	11.0	98	0.00
78 T	n-propylbenzene	50.000	49.156	1.7	98	0.00
79 T	2-Chlorotoluene	50.000	47.930	4.1	101	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.714	-1.4	99	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	45.300	9.4	98	0.00
82 T	4-Chlorotoluene	50.000	44.837	10.3	96	0.00
83 T	tert-Butylbenzene	50.000	52.701	-5.4	103	0.00
84 T	1,2,4-Trimethylbenzene	50.000	50.053	-0.1	98	0.00
85 T	sec-Butylbenzene	50.000	49.829	0.3	99	0.00
86 T	p-Isopropyltoluene	50.000	51.568	-3.1	97	0.00
87 T	1,3-Dichlorobenzene	50.000	41.852	16.3	95	0.00
88 T	1,4-Dichlorobenzene	50.000	45.904	8.2	96	0.00
89 T	n-Butylbenzene	50.000	45.941	8.1	94	0.00
90 T	Hexachloroethane	50.000	43.597	12.8	95	0.00
91 T	1,2-Dichlorobenzene	50.000	43.765	12.5	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	45.651	8.7	103	0.00
93 T	1,2,4-Trichlorobenzene	50.000	40.290	19.4	93	0.00
94 T	Hexachlorobutadiene	50.000	39.544	20.9	94	0.00
95 T	Naphthalene	50.000	45.408	9.2	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
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	40.595	18.8	94	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.: P4665 SAS No.: P4665 SDG No.: P4665

Instrument ID: MSVOA_N Calibration Date/Time: 11/01/2024 10:22

Lab File ID: VN084628.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:46 13:45

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.952	0.582	0.1	-38.87	20
Vinyl Chloride	0.618	0.566		-8.41	20
Bromomethane	0.328	0.288		-12.19	20
Chloroethane	0.488	0.364		-25.41	20
Trichlorofluoromethane	1.018	0.944		-7.27	20
1,1,2-Trichlorotrifluoroethane	0.575	0.549		-4.52	20
1,1-Dichloroethene	0.569	0.502		-11.77	20
Acetone	0.238	0.204		-14.29	20
Carbon Disulfide	1.753	1.480		-15.57	20
Methyl tert-butyl Ether	1.745	1.720		-1.43	20
Methylene Chloride	0.635	0.598		-5.83	20
trans-1,2-Dichloroethene	0.585	0.542		-7.35	20
1,1-Dichloroethane	1.102	1.047	0.1	-4.99	20
2-Butanone	0.337	0.326		-3.26	20
Carbon Tetrachloride	0.525	0.514		-2.1	20
cis-1,2-Dichloroethene	0.683	0.652		-4.54	20
Chloroform	1.121	1.078		-3.84	20
1,1,1-Trichloroethane	1.021	0.967		-5.29	20
Methylcyclohexane	0.478	0.490		2.51	20
Benzene	1.507	1.457		-3.32	20
1,2-Dichloroethane	0.488	0.484		-0.82	20
Trichloroethene	0.348	0.325		-6.61	20
1,2-Dichloropropane	0.354	0.356		0.56	20
Bromodichloromethane	0.526	0.522		-0.76	20
4-Methyl-2-Pentanone	0.406	0.430		5.91	20
Toluene	0.882	0.905		2.61	20
t-1,3-Dichloropropene	0.544	0.517		-4.96	20
cis-1,3-Dichloropropene	0.576	0.566		-1.74	20
1,1,2-Trichloroethane	0.332	0.331		-0.3	20
2-Hexanone	0.296	0.316		6.76	20
Dibromochloromethane	0.378	0.401		6.09	20
Tetrachloroethene	0.333	0.327		-1.8	20
Chlorobenzene	1.119	1.038	0.3	-7.24	20
Ethyl Benzene	1.867	1.850		-0.91	20
m/p-Xylenes	0.707	0.721		1.98	20
o-Xylene	0.661	0.681		3.03	20
Styrene	1.154	1.181		2.34	20
Bromoform	0.293	0.294	0.1	0.34	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.: P4665 SAS No.: P4665 SDG No.: P4665

Instrument ID: MSVOA_N Calibration Date/Time: 11/01/2024 10:22

Lab File ID: VN084628.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:46 13:45

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.504	3.470		-0.97	20
1,1,2,2-Tetrachloroethane	1.170	1.079	0.3	-7.78	20
1,3-Dichlorobenzene	1.838	1.617		-12.02	20
1,4-Dichlorobenzene	1.937	1.621		-16.31	20
1,2-Dichlorobenzene	1.766	1.620		-8.27	20
1,2-Dichloroethane-d4	0.722	0.644		-10.8	20
Dibromofluoromethane	0.338	0.325		-3.85	20
Toluene-d8	1.247	1.185		-4.97	20
4-Bromofluorobenzene	0.466	0.451		-3.22	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\VN110124\
 Data File : VN084628.D
 Acq On : 01 Nov 2024 10:22
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Quant Time: Nov 04 04:22:04 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
 Supervised By :Semsettin Yesilyurt 11/04/2024

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	184180	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	299507	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	271207	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	136355	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	118600	44.583	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	89.160%
35) Dibromofluoromethane	8.159	113	97295	47.992	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.980%
50) Toluene-d8	10.565	98	355060	47.545	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	95.080%
62) 4-Bromofluorobenzene	12.847	95	135136	48.418	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	96.840%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.118	85	99144	46.826	ug/l	91
3) Chloromethane	2.359	50	107183	42.778	ug/l	98
4) Vinyl Chloride	2.512	62	104274	45.789	ug/l	97
5) Bromomethane	2.900	94	53126	44.031	ug/l	96
6) Chloroethane	3.065	64	66956	47.426	ug/l	95
7) Trichlorofluoromethane	3.465	101	173945	46.369	ug/l	97
8) Diethyl Ether	3.953	74	62657	47.349	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.359	101	101057	47.675	ug/l	99
10) Methyl Iodide	4.577	142	130086	45.919	ug/l	99
11) Tert butyl alcohol	5.536	59	73446	209.166	ug/l	99
12) 1,1-Dichloroethene	4.324	96	92527	44.115	ug/l	97
13) Acrolein	4.171	56	93401	266.751	ug/l	98
14) Allyl chloride	5.012	41	159256	46.819	ug/l	92
15) Acrylonitrile	5.718	53	245055	241.071	ug/l	99
16) Acetone	4.424	43	188254	244.929	ug/l	93
17) Carbon Disulfide	4.700	76	272518	42.191	ug/l	96
18) Methyl Acetate	5.018	43	127182	44.902	ug/l	99
19) Methyl tert-butyl Ether	5.788	73	316868	49.289	ug/l	99
20) Methylene Chloride	5.265	84	110189	47.096	ug/l	88
21) trans-1,2-Dichloroethene	5.777	96	99799	46.339	ug/l	100
22) Diisopropyl ether	6.665	45	334786	49.533	ug/l	98
23) Vinyl Acetate	6.600	43	1167096	250.398	ug/l	100
24) 1,1-Dichloroethane	6.565	63	192812	47.516	ug/l	96
25) 2-Butanone	7.482	43	300076	241.790	ug/l	97
26) 2,2-Dichloropropane	7.488	77	171112	48.449	ug/l	98
27) cis-1,2-Dichloroethene	7.482	96	120101	47.758	ug/l	96
28) Bromochloromethane	7.812	49	90567	56.020	ug/l	96
29) Tetrahydrofuran	7.835	42	203801	247.530	ug/l	97
30) Chloroform	7.959	83	198531	48.069	ug/l	98
31) Cyclohexane	8.253	56	161647	44.014	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	178041	47.362	ug/l	98
36) 1,1-Dichloropropene	8.365	75	134844	47.960	ug/l	99
37) Ethyl Acetate	7.559	43	128683	50.445	ug/l	99
38) Carbon Tetrachloride	8.359	117	153837	48.951	ug/l	96
39) Methylcyclohexane	9.600	83	146769	51.312	ug/l	97
40) Benzene	8.600	78	436290	48.319	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
 Data File : VN084628.D
 Acq On : 01 Nov 2024 10:22
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
 Supervised By :Semsettin Yesilyurt 11/04/2024

Quant Time: Nov 04 04:22:04 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	73571	53.631	ug/l	97
42) 1,2-Dichloroethane	8.671	62	145026	49.594	ug/l	99
43) Isopropyl Acetate	8.688	43	218643	46.323	ug/l	98
44) Trichloroethene	9.347	130	97430	46.787	ug/l	94
45) 1,2-Dichloropropane	9.618	63	106599	50.327	ug/l	97
46) Dibromomethane	9.706	93	75062	50.221	ug/l	98
47) Bromodichloromethane	9.888	83	156271	49.601	ug/l	99
48) Methyl methacrylate	9.676	41	105317	53.047	ug/l	99
49) 1,4-Dioxane	9.694	88	37747	1072.921	ug/l #	82
51) 4-Methyl-2-Pentanone	10.447	43	643803	264.740	ug/l	99
52) Toluene	10.629	92	271189	51.353	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	154705	47.438	ug/l	95
54) cis-1,3-Dichloropropene	10.312	75	169654	49.152	ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	99093	49.815	ug/l	95
56) Ethyl methacrylate	10.876	69	157649	54.790	ug/l	97
57) 1,3-Dichloropropane	11.165	76	172023	50.388	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	394841	293.256	ug/l	96
59) 2-Hexanone	11.194	43	473287	267.380	ug/l	97
60) Dibromochloromethane	11.359	129	120058	52.956	ug/l	99
61) 1,2-Dibromoethane	11.470	107	101240	49.699	ug/l	97
64) Tetrachloroethene	11.106	164	88769	49.207	ug/l	96
65) Chlorobenzene	11.888	112	281585	46.410	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	101931	48.299	ug/l	99
67) Ethyl Benzene	11.965	91	501636	49.531	ug/l	99
68) m/p-Xylenes	12.070	106	390896	101.948	ug/l	98
69) o-Xylene	12.400	106	184603	51.466	ug/l	99
70) Styrene	12.412	104	320232	51.179	ug/l	99
71) Bromoform	12.576	173	79820	50.263	ug/l #	96
73) Isopropylbenzene	12.694	105	473125	49.514	ug/l	100
74) N-ethyl acetate	12.494	43	198462	48.799	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.941	83	147150	46.136	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	120621m	44.254	ug/l	
77) Bromobenzene	12.982	156	119190	46.399	ug/l	91
78) n-propylbenzene	13.035	91	554194	49.493	ug/l	98
79) 2-Chlorotoluene	13.123	91	352750	48.213	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	402880	50.871	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	52289	45.512	ug/l	99
82) 4-Chlorotoluene	13.223	91	354928	46.096	ug/l	99
83) tert-Butylbenzene	13.441	119	340435	51.939	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	418264	51.171	ug/l	100
85) sec-Butylbenzene	13.617	105	462789	49.984	ug/l	100
86) p-Isopropyltoluene	13.729	119	394941	52.012	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	220467	43.977	ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	221013	48.021	ug/l	99
89) n-Butylbenzene	14.059	91	330406	46.517	ug/l	99
90) Hexachloroethane	14.335	117	77615	45.835	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	220854	45.845	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	28485	44.085	ug/l	97
93) 1,2,4-Trichlorobenzene	15.394	180	108547	41.167	ug/l	99
94) Hexachlorobutadiene	15.500	225	46422	40.091	ug/l	97
95) Naphthalene	15.641	128	347756	44.063	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	106880	41.757	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084628.D
Acq On : 01 Nov 2024 10:22
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

Quant Time: Nov 04 04:22:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

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

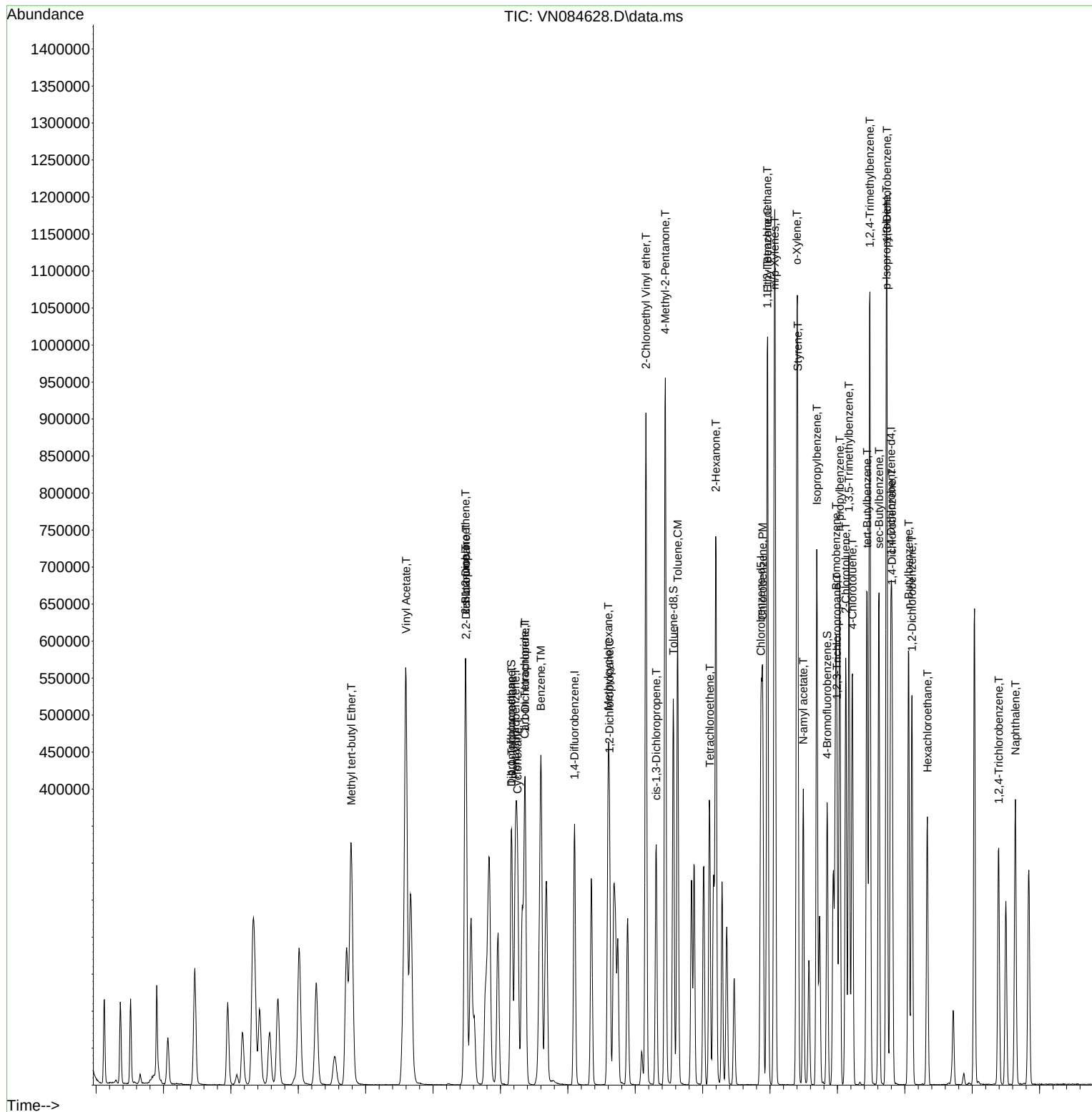
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\  
Data File : VN084628.D  
Acq On    : 01 Nov 2024  10:22  
Operator  : JC\MD  
Sample    : VSTDCCC050  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 1    Sample Multiplier: 1
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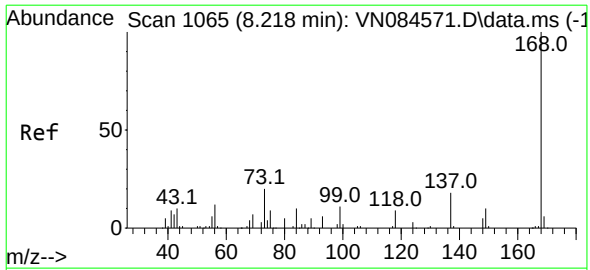
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

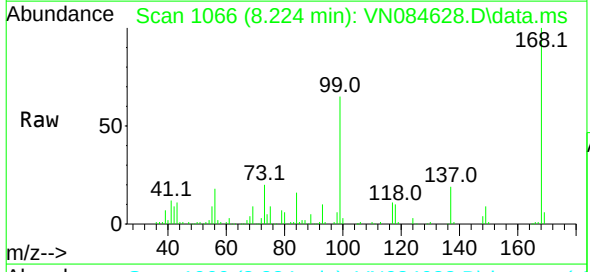
Quant Time: Nov 04 04:22:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

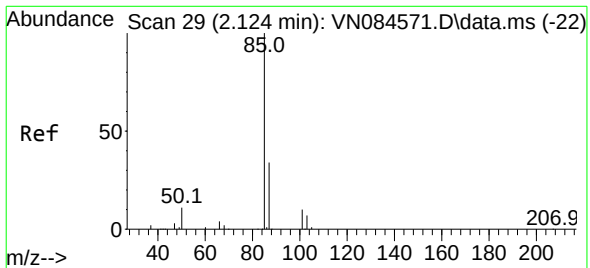
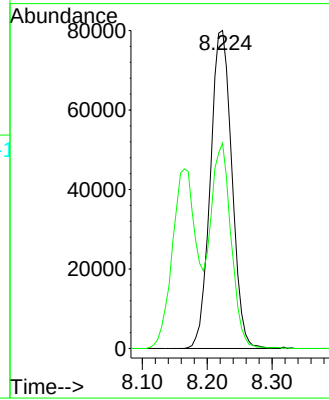
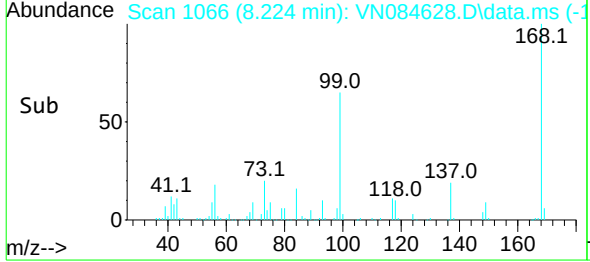
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:168 Resp: 184180
Ion Ratio Lower Upper
168 100
99 64.3 54.2 81.2

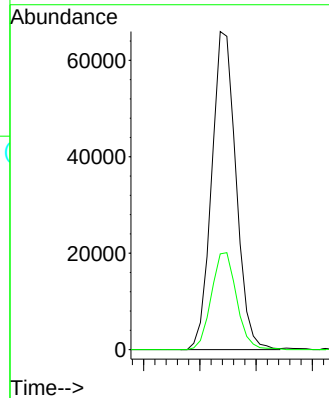
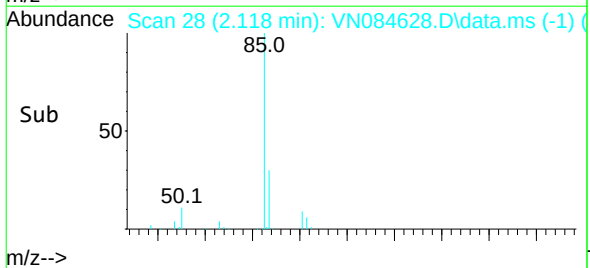
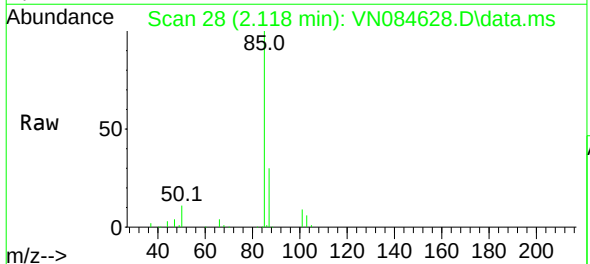
Manual Integrations
APPROVED

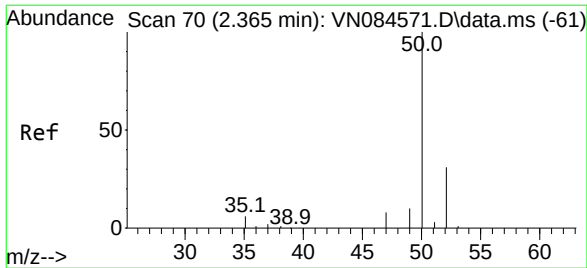
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#2
Dichlorodifluoromethane
Concen: 46.826 ug/l
RT: 2.118 min Scan# 28
Delta R.T. -0.006 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

Tgt Ion: 85 Resp: 99144
Ion Ratio Lower Upper
85 100
87 30.1 17.6 52.9





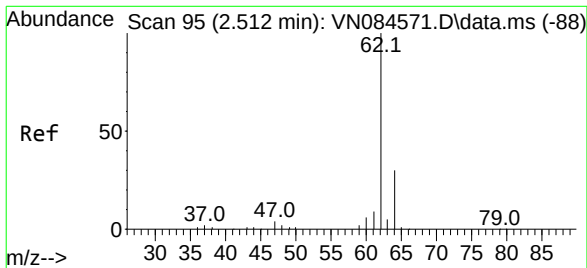
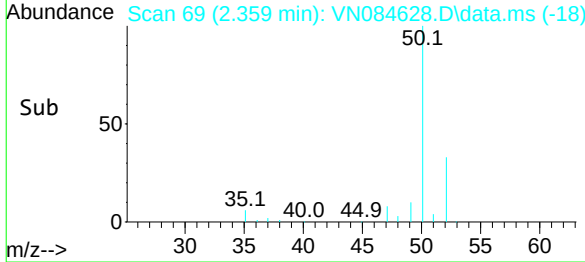
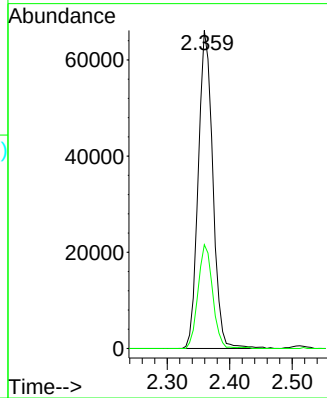
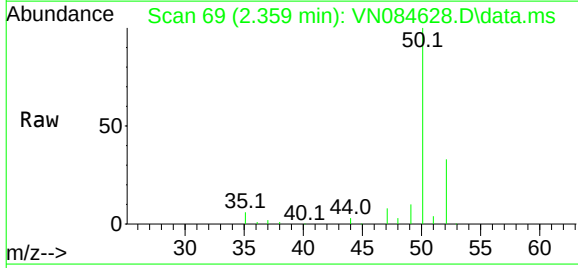
#3
Chloromethane
Concen: 42.778 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 107183
Ion Ratio Lower Upper
50 100
52 32.6 26.8 40.2

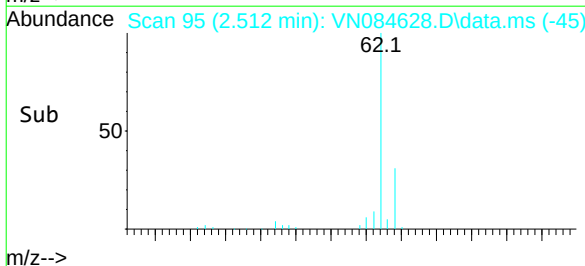
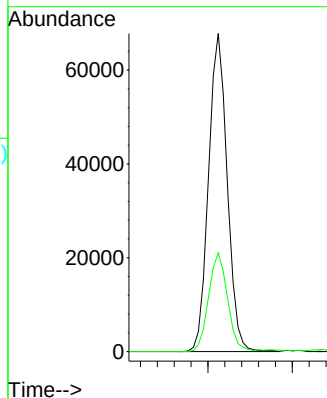
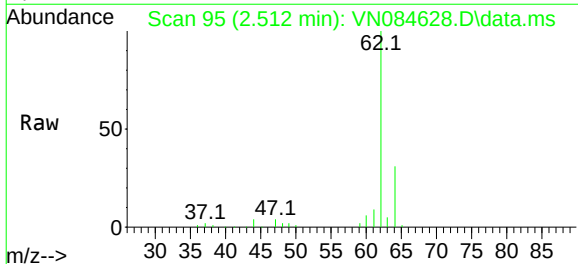
Manual Integrations
APPROVED

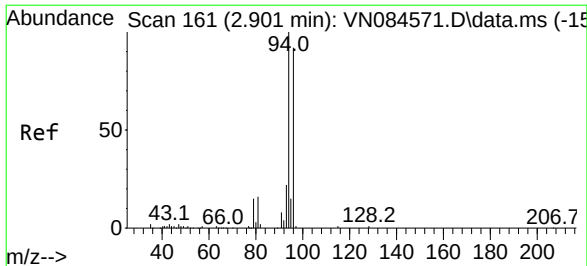
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#4
Vinyl Chloride
Concen: 45.789 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.006 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

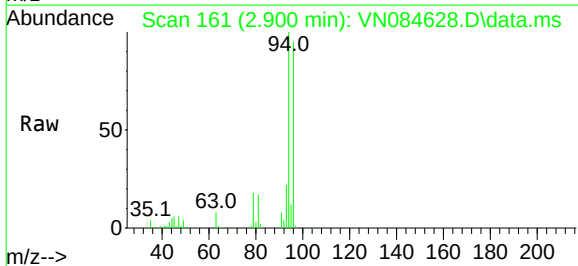
Tgt Ion: 62 Resp: 104274
Ion Ratio Lower Upper
62 100
64 31.0 26.2 39.4





#5
Bromomethane
Concen: 44.031 ug/l
RT: 2.900 min Scan# 161
Delta R.T. -0.053 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

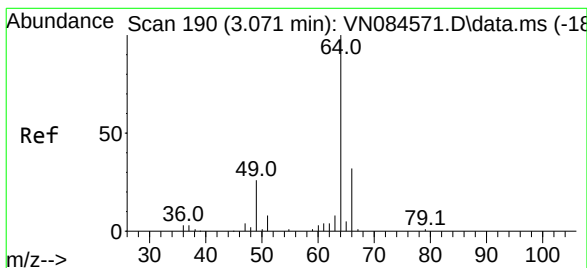
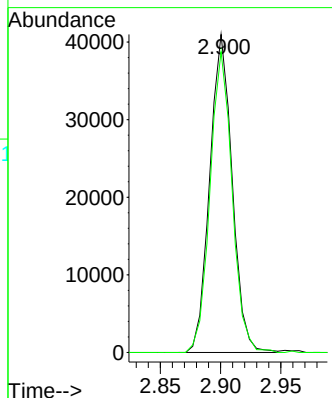
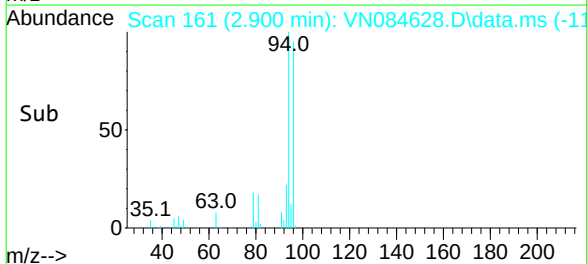
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 94 Resp: 53126
Ion Ratio Lower Upper
94 100
96 94.6 72.9 109.3

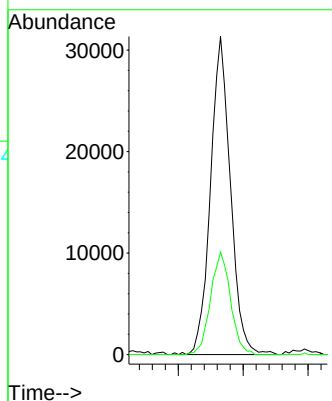
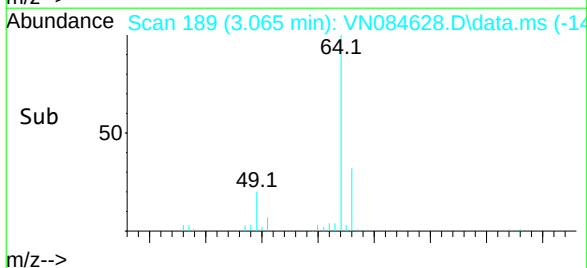
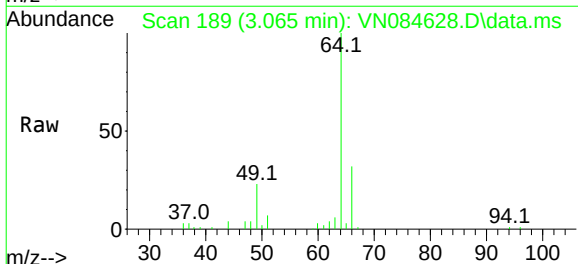
Manual Integrations
APPROVED

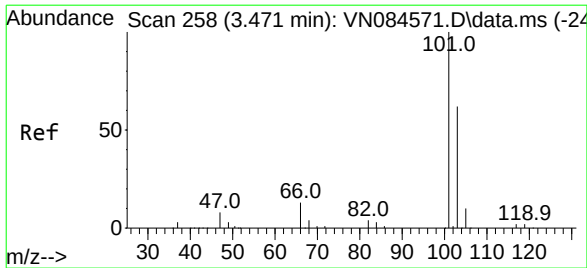
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#6
Chloroethane
Concen: 47.426 ug/l
RT: 3.065 min Scan# 189
Delta R.T. -0.053 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

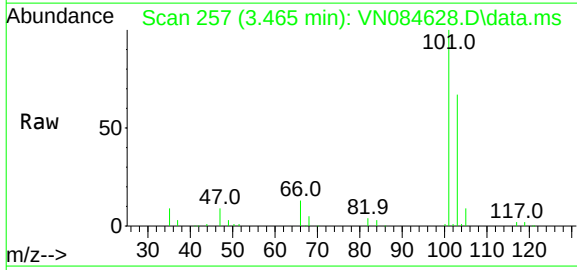
Tgt Ion: 64 Resp: 66956
Ion Ratio Lower Upper
64 100
66 32.2 23.5 35.3





#7
Trichlorofluoromethane
Concen: 46.369 ug/l
RT: 3.465 min Scan# 258
Delta R.T. -0.030 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

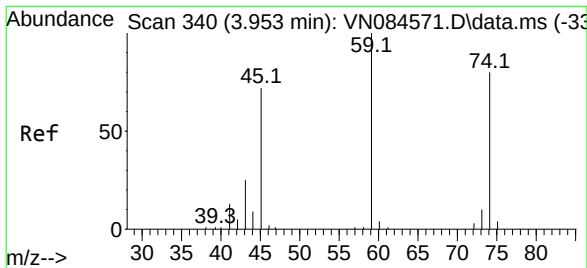
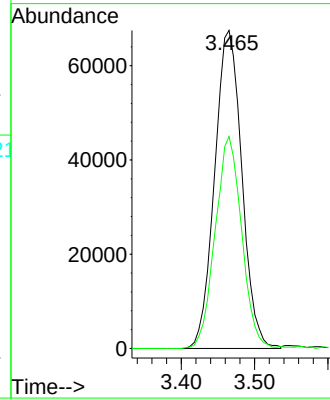
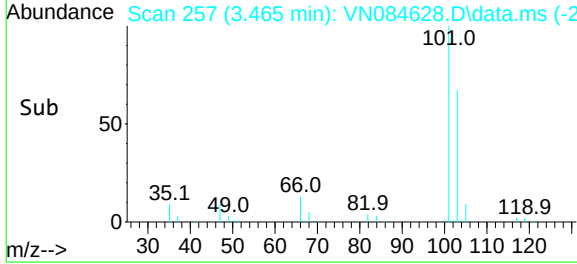
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:101 Resp: 173945
Ion Ratio Lower Upper
101 100
103 66.7 51.8 77.6

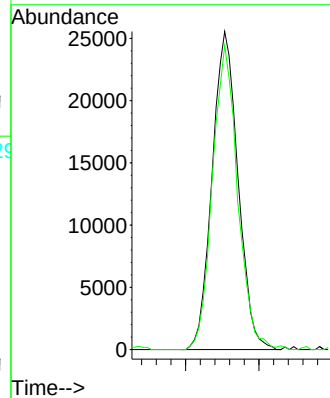
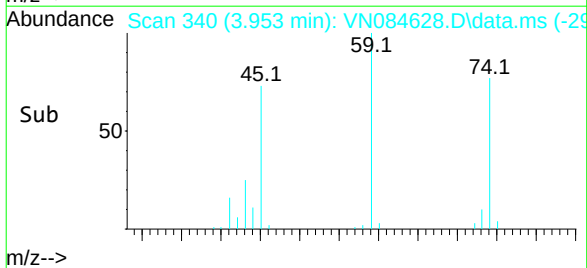
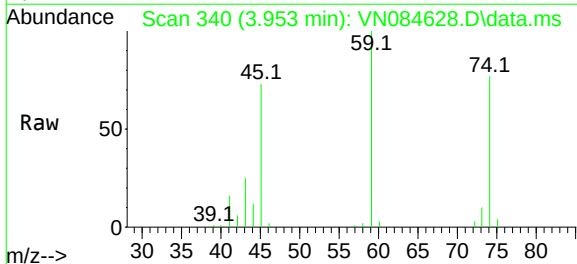
Manual Integrations
APPROVED

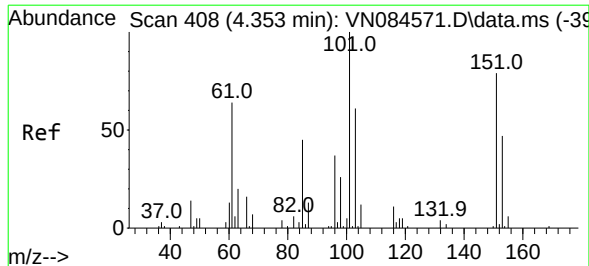
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#8
Diethyl Ether
Concen: 47.349 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.006 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

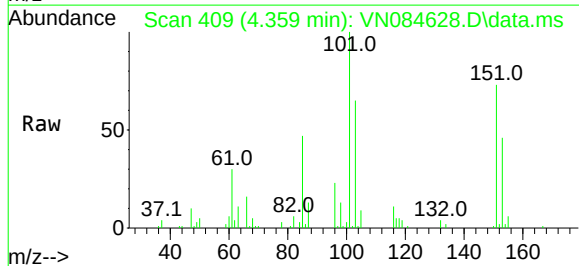
Tgt Ion: 74 Resp: 62657
Ion Ratio Lower Upper
74 100
45 93.3 47.7 143.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.675 ug/l
RT: 4.359 min Scan# 408
Delta R.T. -0.012 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

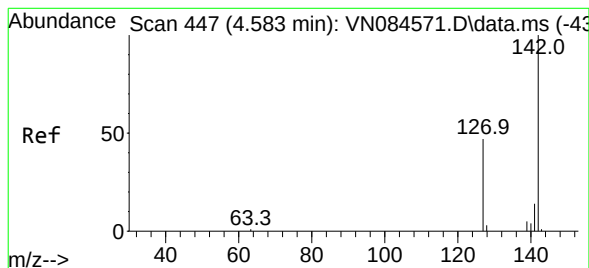
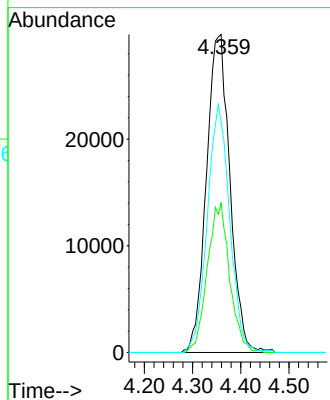
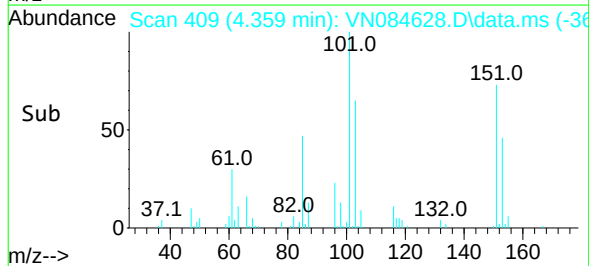
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:101 Resp: 101057
Ion Ratio Lower Upper
101 100
85 44.5 36.2 54.4
151 74.5 59.3 88.9

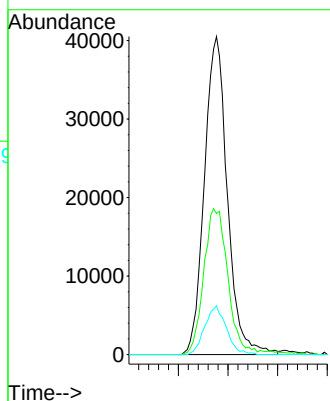
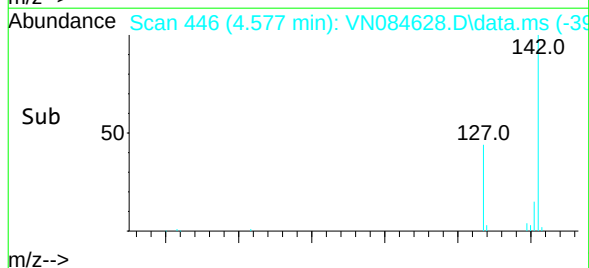
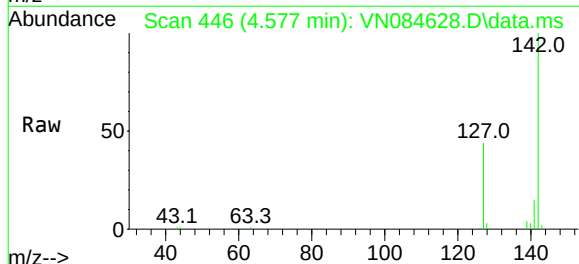
Manual Integrations
APPROVED

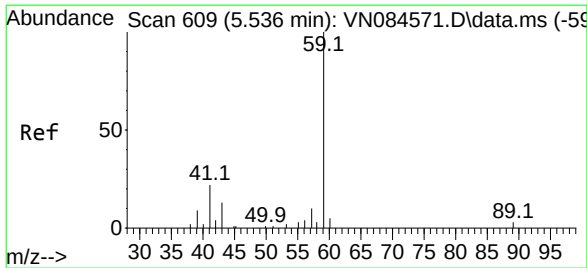
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#10
Methyl Iodide
Concen: 45.919 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.018 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

Tgt Ion:142 Resp: 130086
Ion Ratio Lower Upper
142 100
127 44.4 35.3 52.9
141 15.4 11.0 16.6





#11

Tert butyl alcohol

Concen: 209.166 ug/l

RT: 5.536 min Scan# 609

Delta R.T. 0.012 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 73446

Ion Ratio Lower Upper

59 100

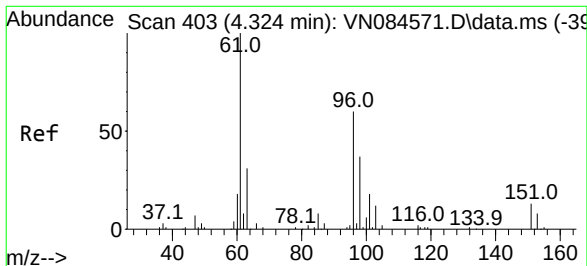
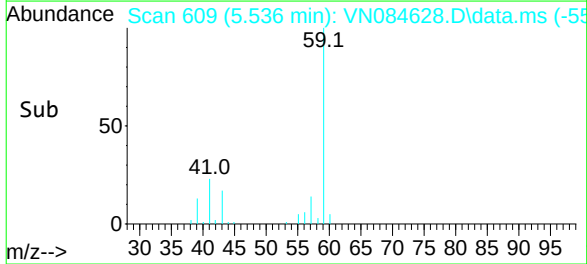
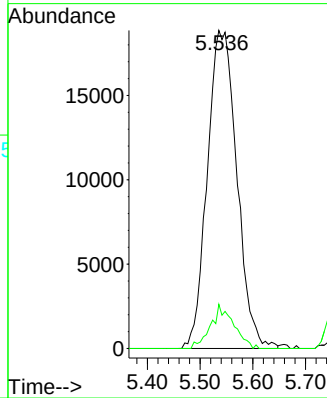
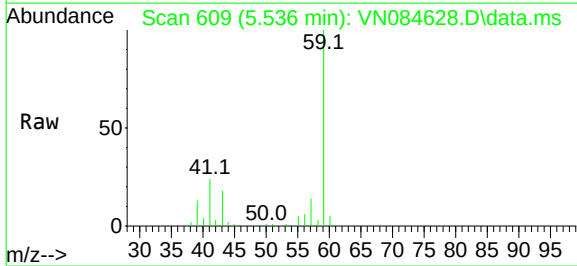
57 10.7 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024



#12

1,1-Dichloroethene

Concen: 44.115 ug/l

RT: 4.324 min Scan# 403

Delta R.T. -0.018 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

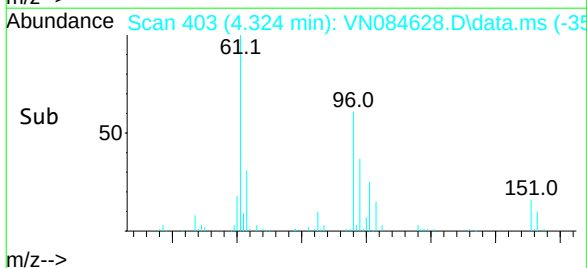
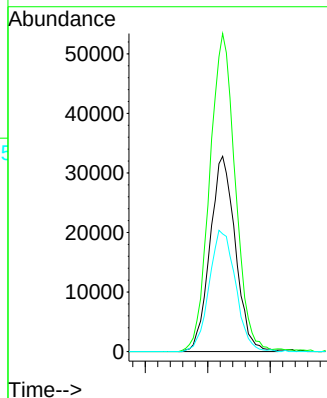
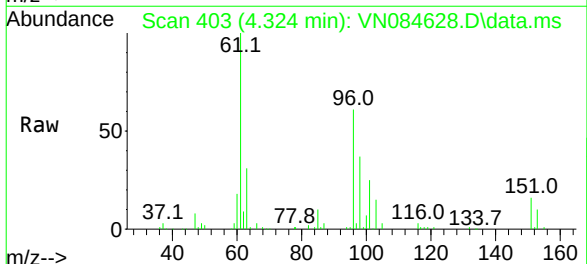
Tgt Ion: 96 Resp: 92527

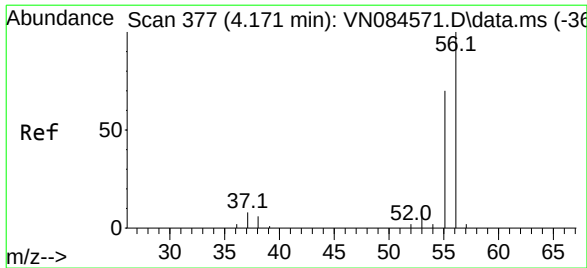
Ion Ratio Lower Upper

96 100

61 162.9 128.6 192.8

98 60.3 51.7 77.5





#13

Acrolein

Concen: 266.751 ug/l

RT: 4.171 min Scan# 37

Delta R.T. -0.006 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 93401

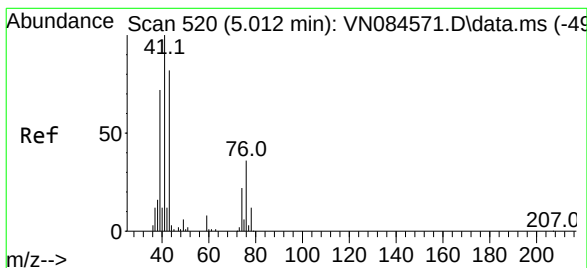
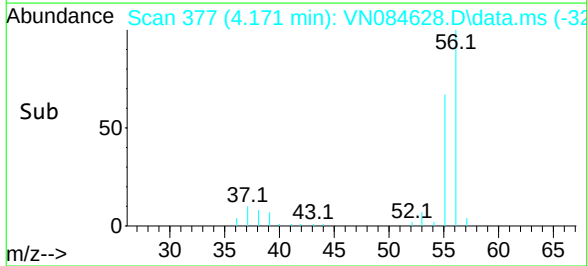
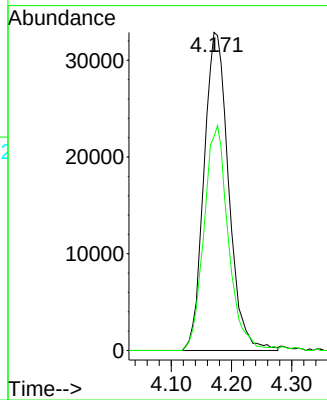
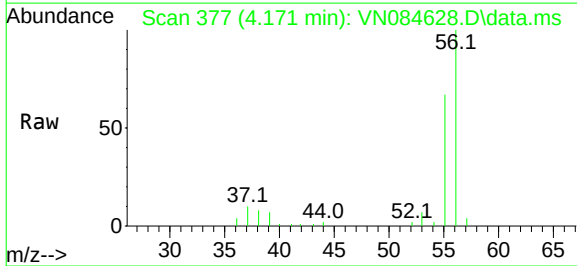
Ion Ratio Lower Upper

56 100

55 69.5 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#14

Allyl chloride

Concen: 46.819 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.012 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

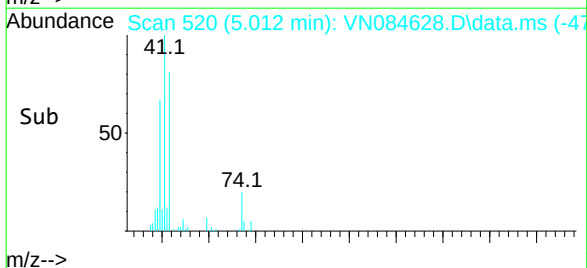
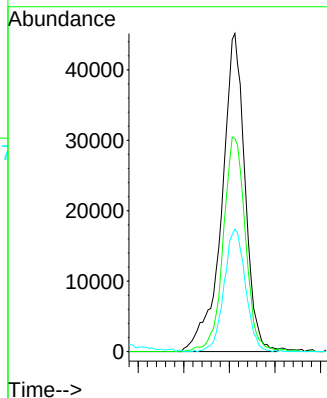
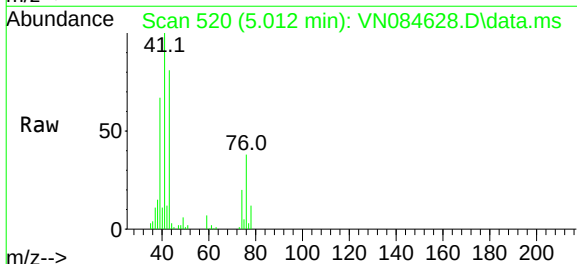
Tgt Ion: 41 Resp: 159256

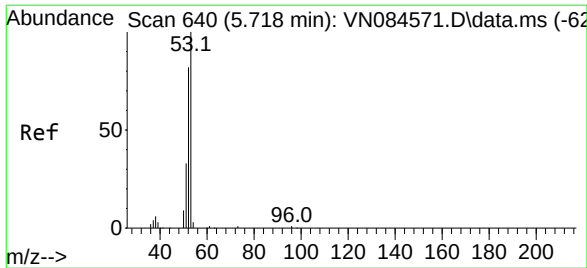
Ion Ratio Lower Upper

41 100

39 64.4 59.0 88.6

76 35.5 29.8 44.6





#15

Acrylonitrile

Concen: 241.071 ug/l

RT: 5.718 min Scan# 640

Delta R.T. -0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

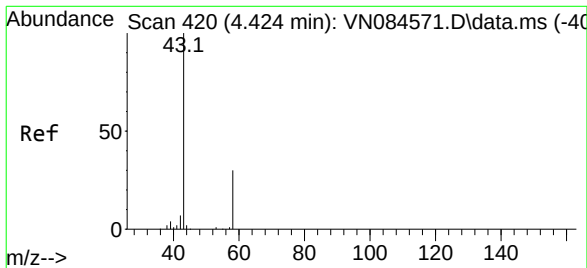
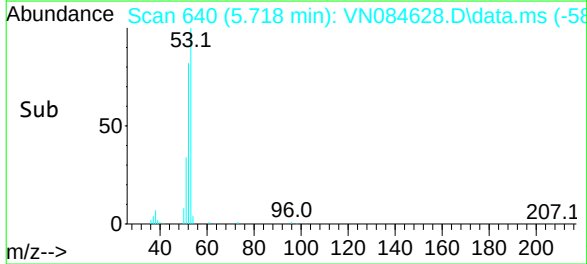
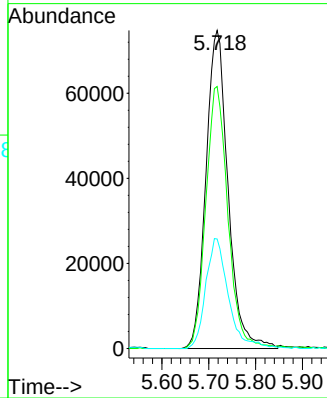
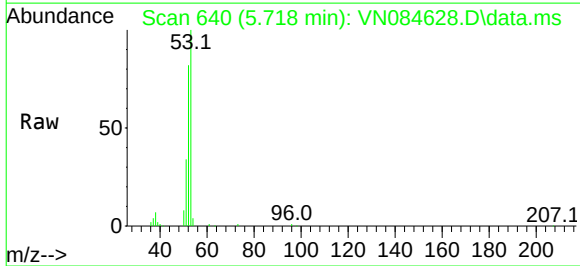
ClientSampleId :

VSTDCCC050

Tgt Ion:	53	Resp:	245055
Ion	Ratio	Lower	Upper
53	100		
52	82.1	66.2	99.4
51	35.5	28.8	43.2

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#16

Acetone

Concen: 244.929 ug/l

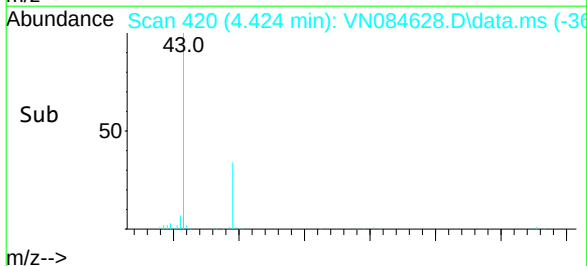
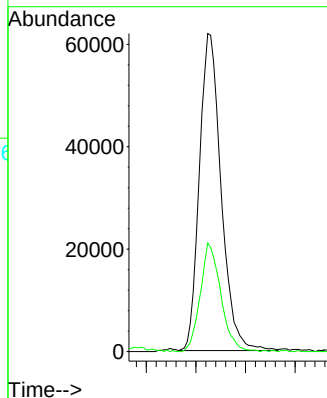
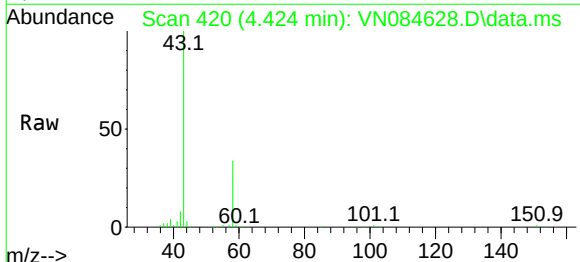
RT: 4.424 min Scan# 420

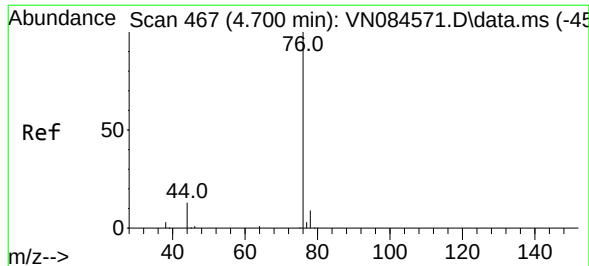
Delta R.T. -0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Tgt Ion:	43	Resp:	188254
Ion	Ratio	Lower	Upper
43	100		
58	34.3	24.4	36.6





#17

Carbon Disulfide

Concen: 42.191 ug/l

RT: 4.700 min Scan# 46

Delta R.T. -0.012 min

Lab File: VN084628.D

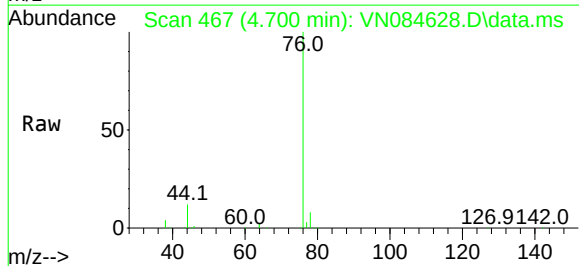
Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050



Tgt Ion: 76 Resp: 272518

Ion Ratio Lower Upper

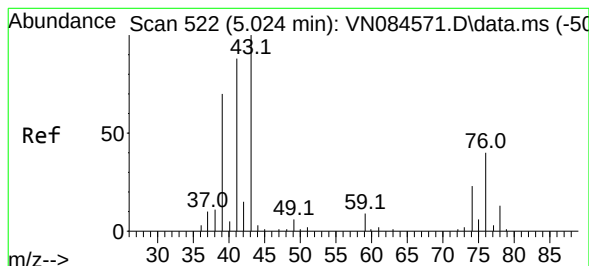
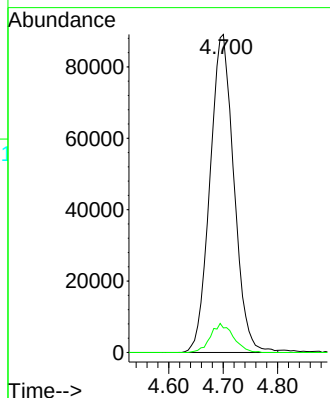
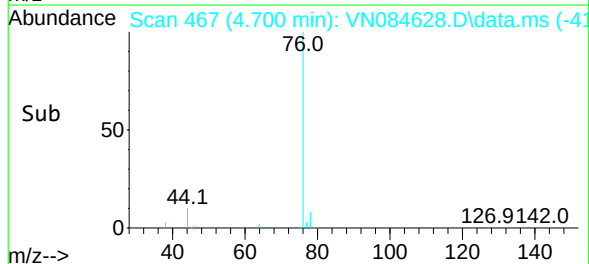
76 100

78 7.7 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#18

Methyl Acetate

Concen: 44.902 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN084628.D

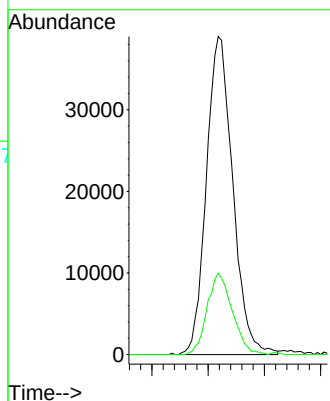
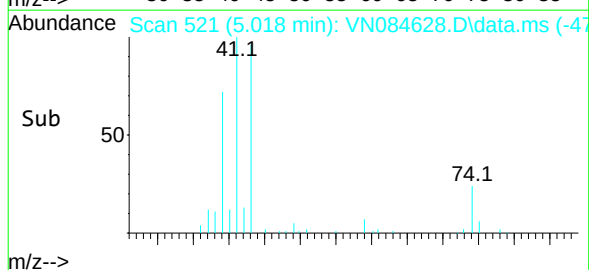
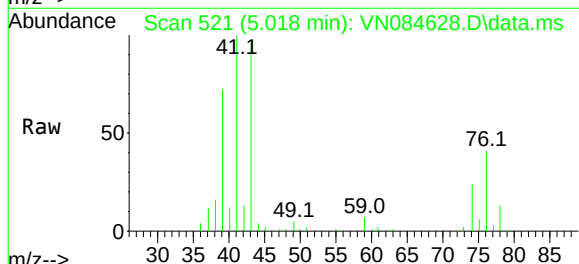
Acq: 01 Nov 2024 10:22

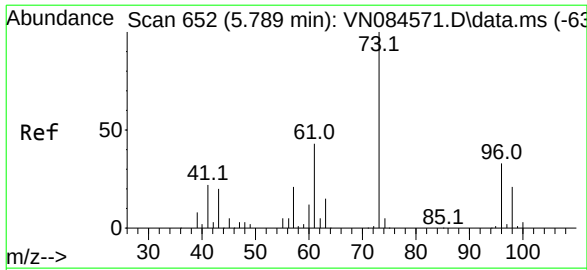
Tgt Ion: 43 Resp: 127182

Ion Ratio Lower Upper

43 100

74 24.4 19.2 28.8





#19

Methyl tert-butyl Ether

Concen: 49.289 ug/l

RT: 5.788 min Scan# 65

Delta R.T. -0.006 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 316868

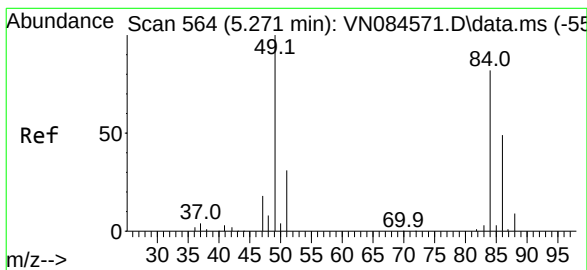
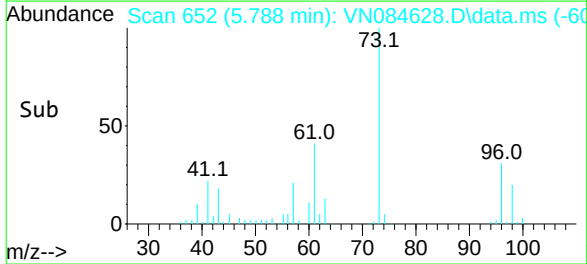
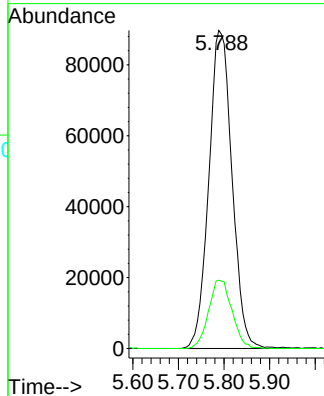
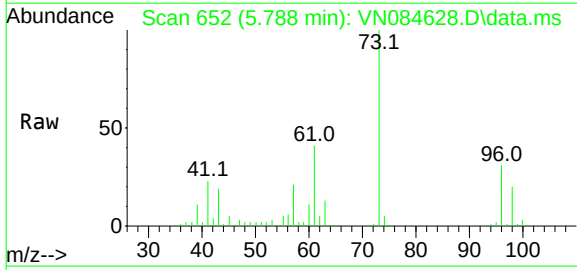
Ion Ratio Lower Upper

73 100

57 21.5 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#20

Methylene Chloride

Concen: 47.096 ug/l

RT: 5.265 min Scan# 563

Delta R.T. -0.012 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Tgt Ion: 84 Resp: 110189

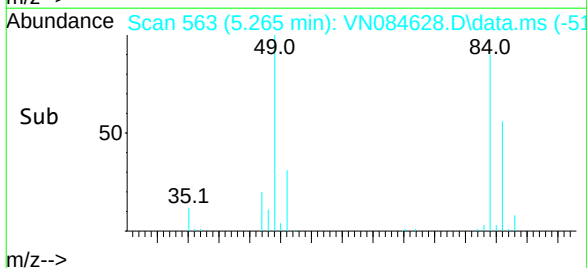
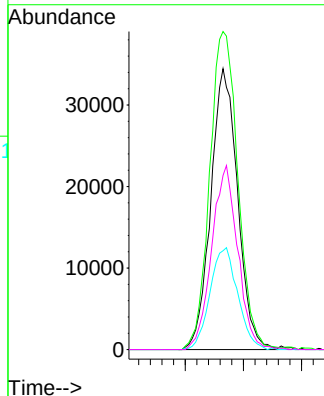
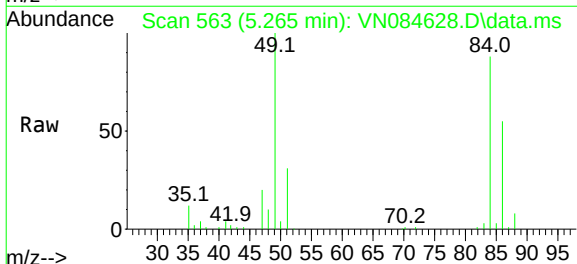
Ion Ratio Lower Upper

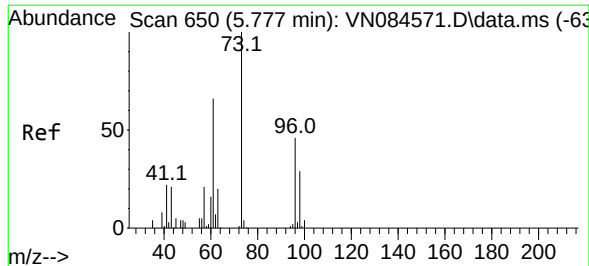
84 100

49 113.2 107.2 160.8

51 35.2 31.8 47.8

86 62.0 52.9 79.3





#21

trans-1,2-Dichloroethene

Concen: 46.339 ug/l

RT: 5.777 min Scan# 650

Delta R.T. -0.012 min

Lab File: VN084628.D

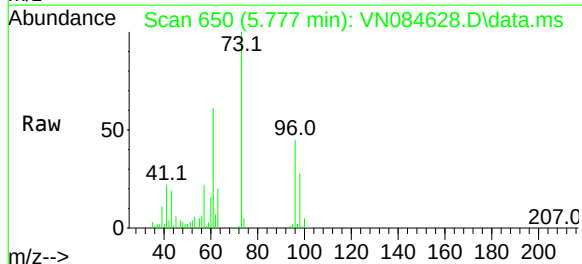
Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050



Tgt Ion: 96 Resp: 99799

Ion Ratio Lower Upper

96 100

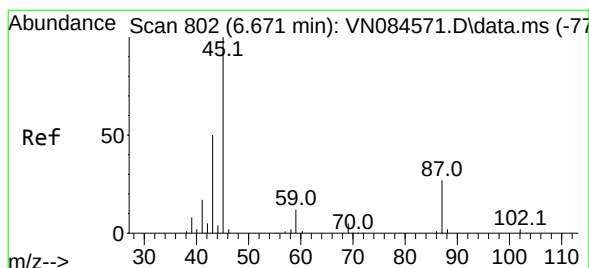
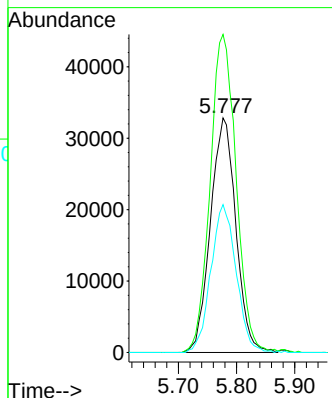
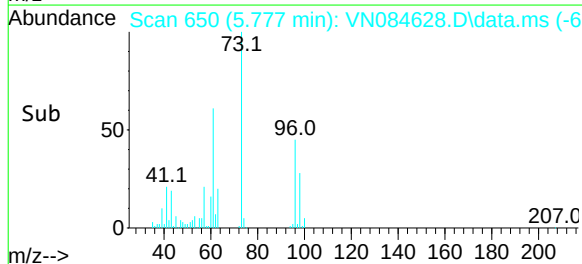
61 135.6 108.4 162.6

98 63.0 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#22

Diisopropyl ether

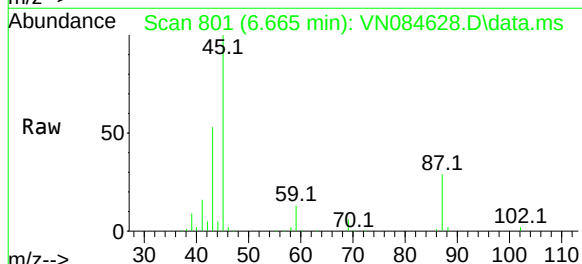
Concen: 49.533 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.006 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22



Tgt Ion: 45 Resp: 334786

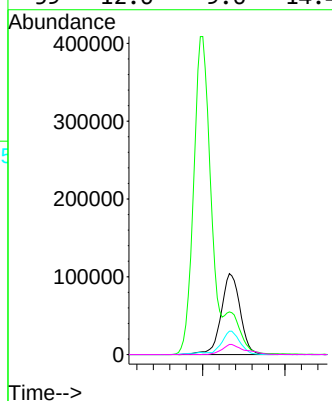
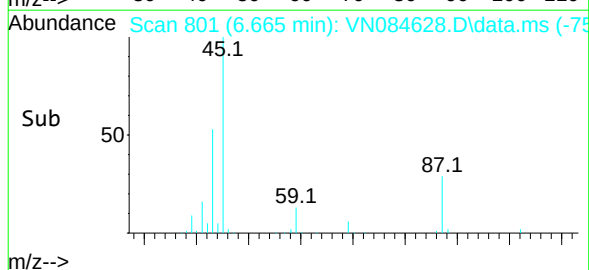
Ion Ratio Lower Upper

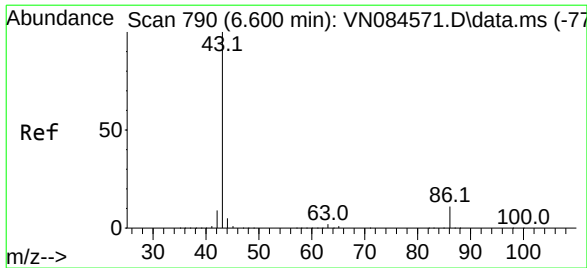
45 100

43 51.6 42.3 63.5

87 28.9 21.8 32.6

59 12.6 9.6 14.4





#23

Vinyl Acetate

Concen: 250.398 ug/l

RT: 6.600 min Scan# 790

Delta R.T. -0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 1167096

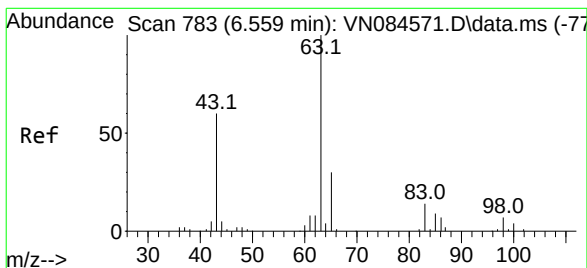
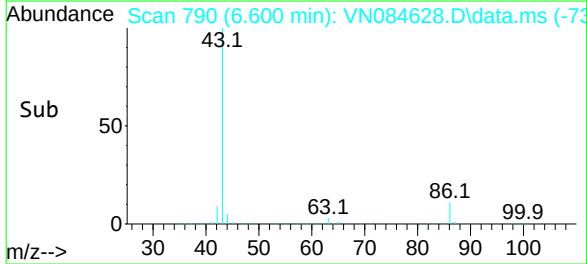
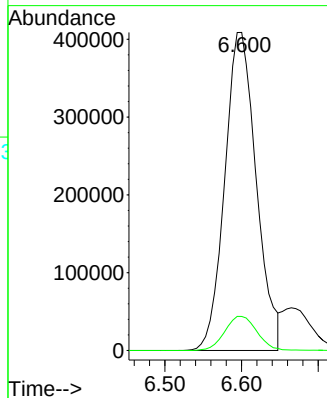
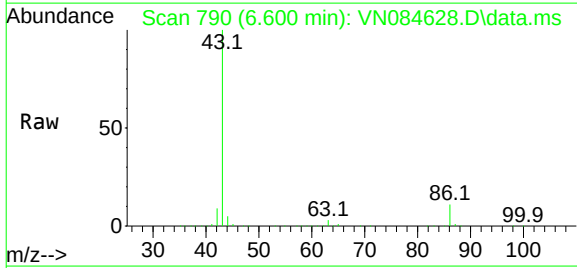
Ion Ratio Lower Upper

43 100

86 10.7 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#24

1,1-Dichloroethane

Concen: 47.516 ug/l

RT: 6.565 min Scan# 784

Delta R.T. -0.006 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

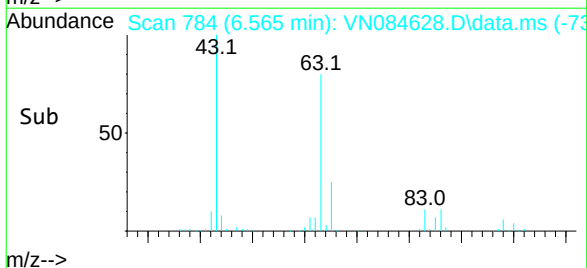
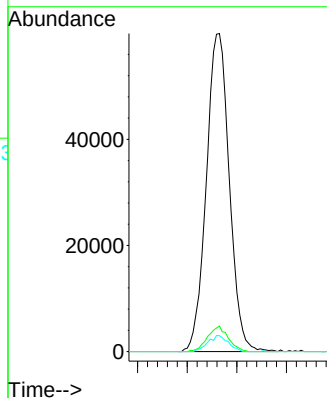
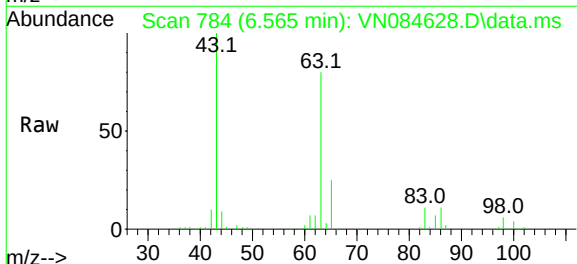
Tgt Ion: 63 Resp: 192812

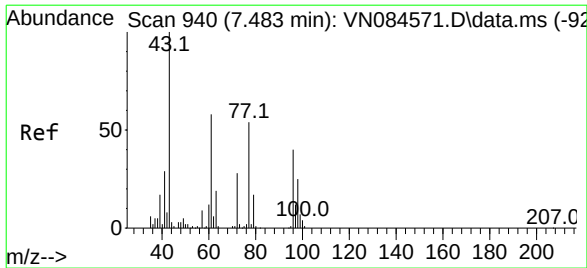
Ion Ratio Lower Upper

63 100

98 8.1 3.4 10.2

100 5.0 2.0 5.8





#25

2-Butanone

Concen: 241.790 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 300076

Ion Ratio Lower Upper

43 100

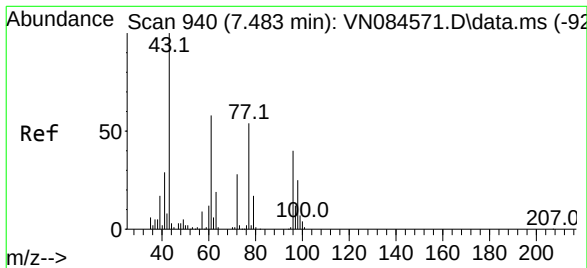
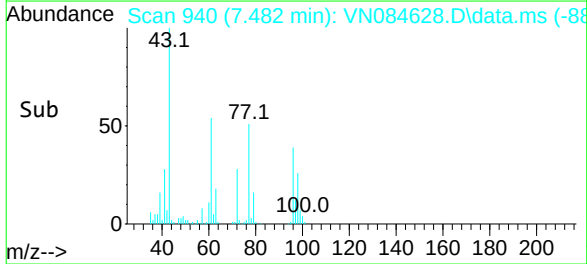
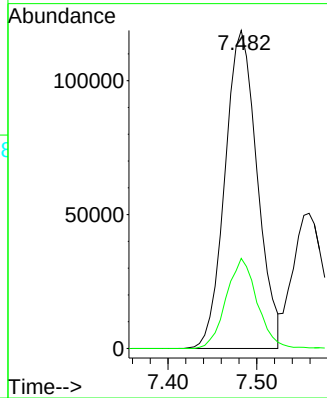
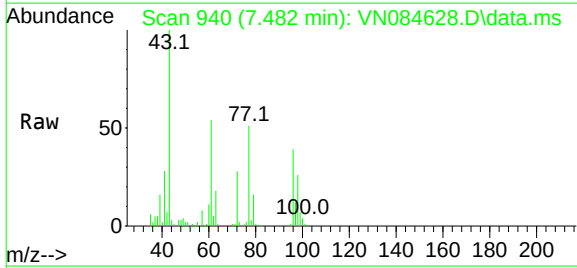
72 28.3 21.4 32.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024



#26

2,2-Dichloropropane

Concen: 48.449 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.000 min

Lab File: VN084628.D

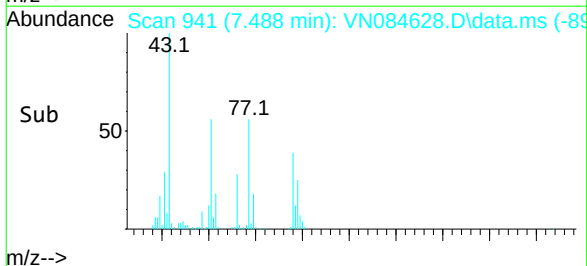
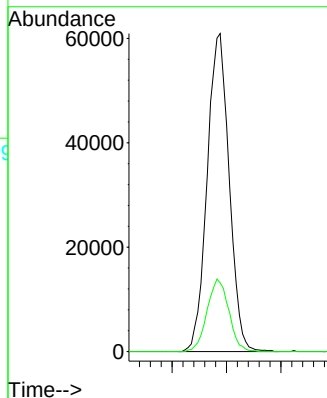
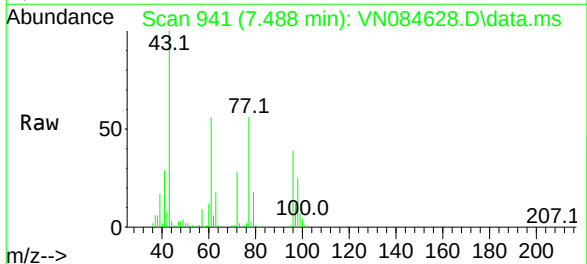
Acq: 01 Nov 2024 10:22

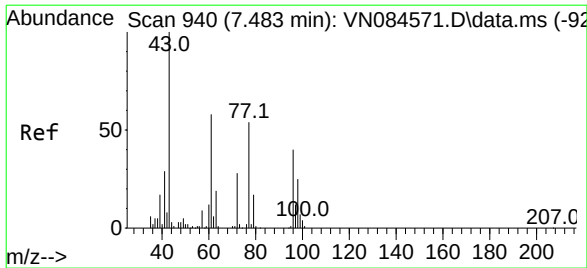
Tgt Ion: 77 Resp: 171112

Ion Ratio Lower Upper

77 100

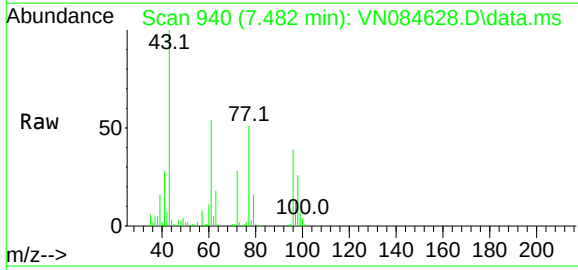
97 22.5 10.8 32.3





#27
cis-1,2-Dichloroethene
Concen: 47.758 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

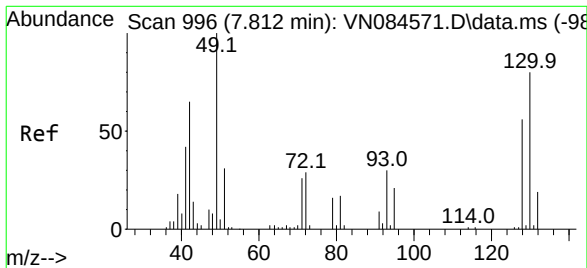
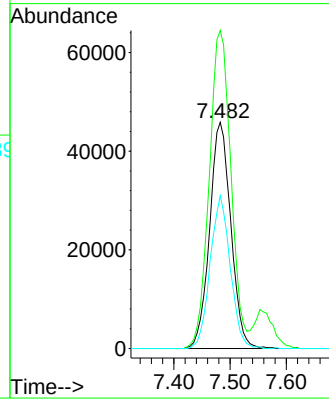
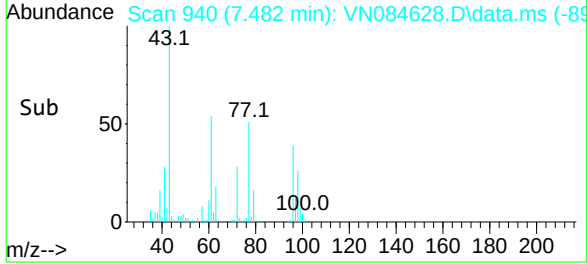
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 96 Resp: 120101
Ion Ratio Lower Upper
96 100
61 143.3 0.0 301.8
98 64.0 0.0 128.2

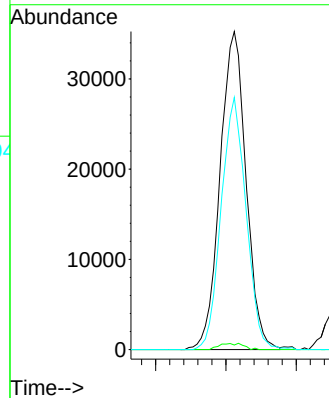
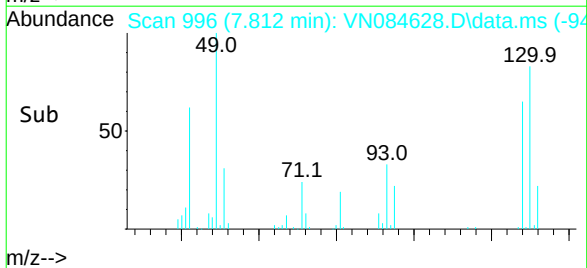
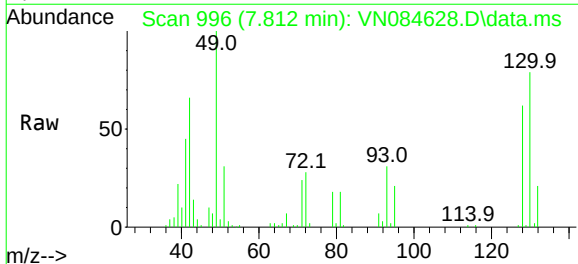
Manual Integrations
APPROVED

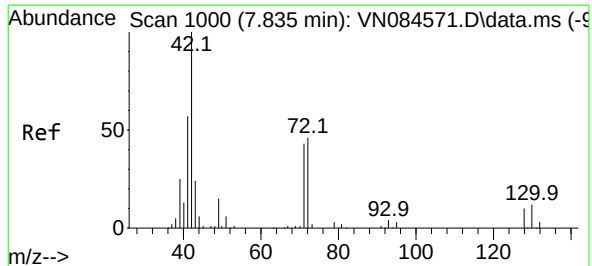
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#28
Bromochloromethane
Concen: 56.020 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

Tgt Ion: 49 Resp: 90567
Ion Ratio Lower Upper
49 100
129 1.8 0.0 3.6
130 76.1 58.0 87.0





#29

Tetrahydrofuran

Concen: 247.530 ug/l

RT: 7.835 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 203801

Ion Ratio Lower Upper

42 100

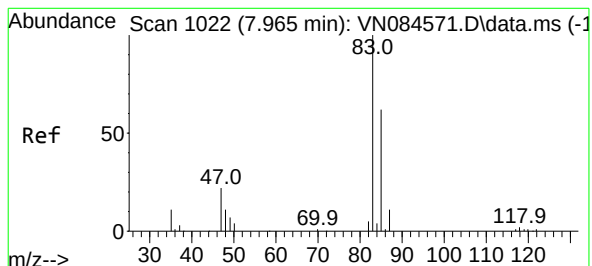
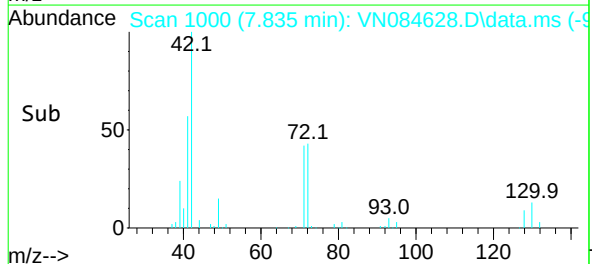
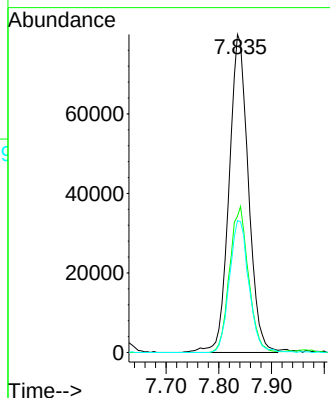
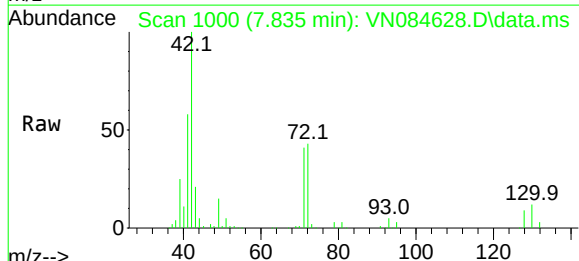
72 44.9 34.6 51.8

71 41.8 32.2 48.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
 Supervised By :Semsettin Yesilyurt 11/04/2024



#30

Chloroform

Concen: 48.069 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VN084628.D

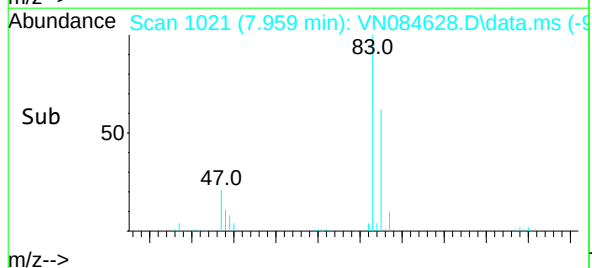
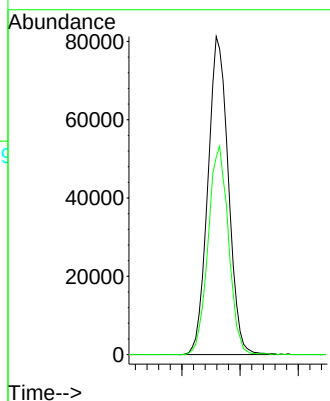
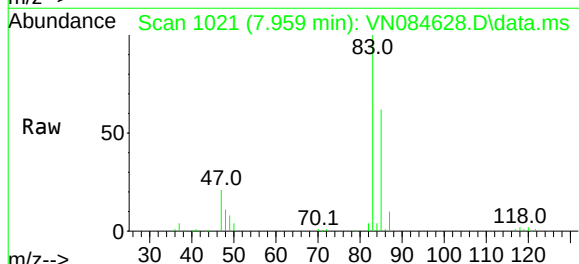
Acq: 01 Nov 2024 10:22

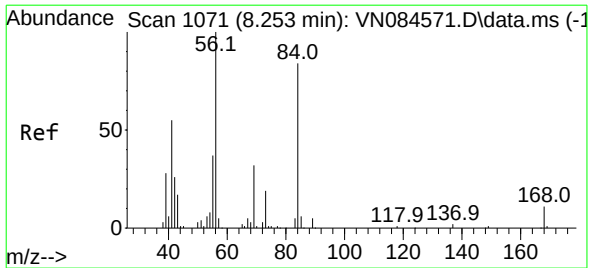
Tgt Ion: 83 Resp: 198531

Ion Ratio Lower Upper

83 100

85 62.0 51.0 76.4





#31

Cyclohexane

Concen: 44.014 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 161647

Ion Ratio Lower Upper

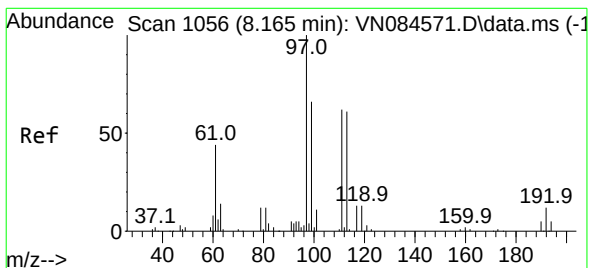
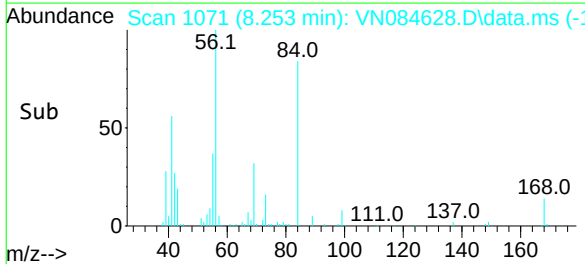
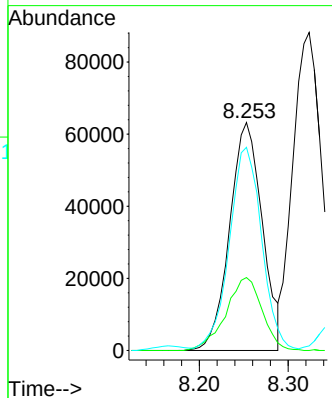
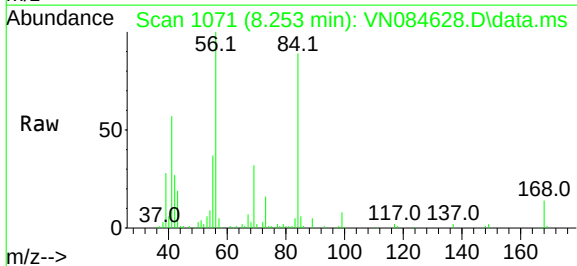
56 100

69 32.0 23.8 35.6

84 87.5 68.8 103.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#32

1,1,1-Trichloroethane

Concen: 47.362 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

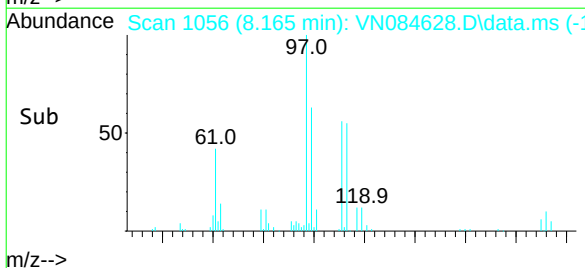
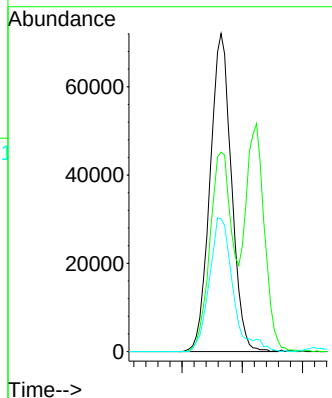
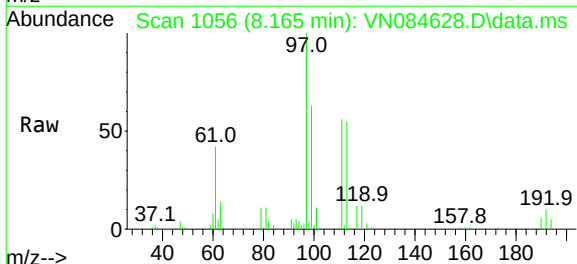
Tgt Ion: 97 Resp: 178041

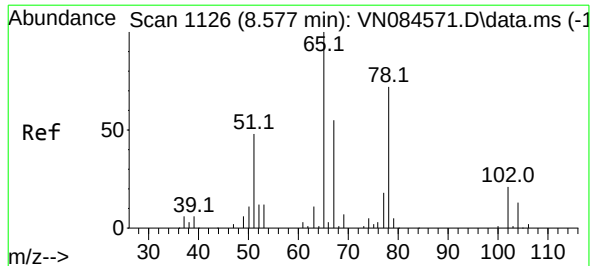
Ion Ratio Lower Upper

97 100

99 66.2 51.2 76.8

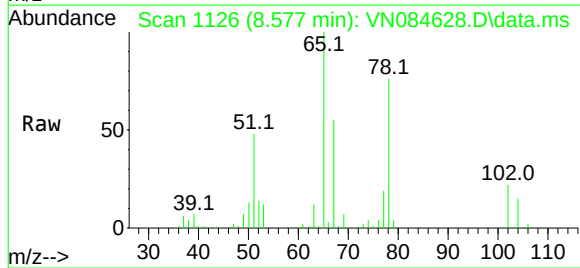
61 46.4 37.5 56.3





#33
1,2-Dichloroethane-d4
Concen: 44.583 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

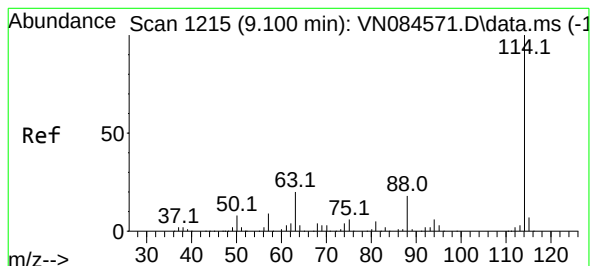
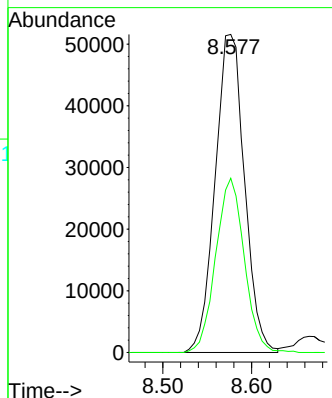
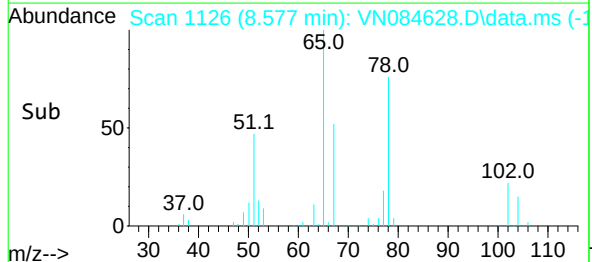
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 65 Resp: 118600
Ion Ratio Lower Upper
65 100
67 53.2 0.0 102.0

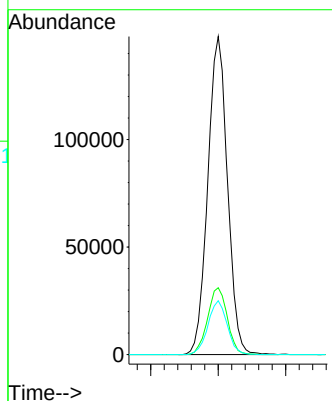
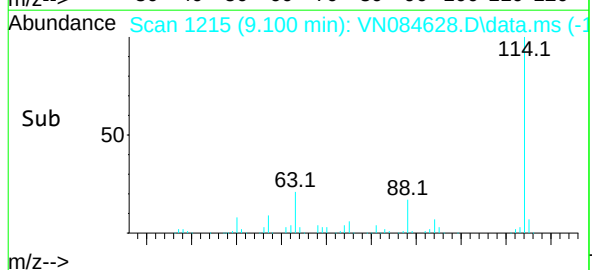
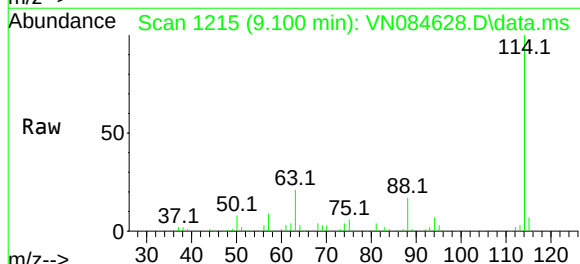
Manual Integrations
APPROVED

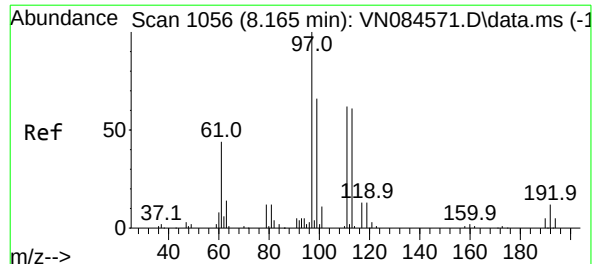
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

Tgt Ion:114 Resp: 299507
Ion Ratio Lower Upper
114 100
63 21.0 0.0 43.8
88 16.9 0.0 31.6





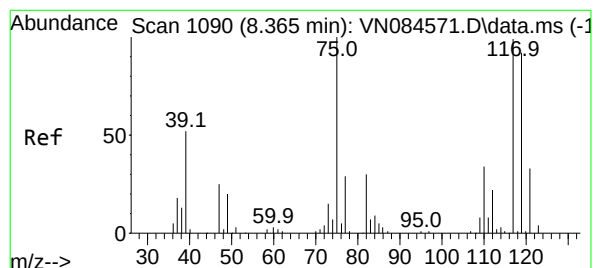
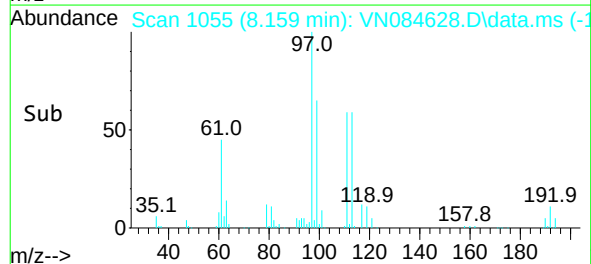
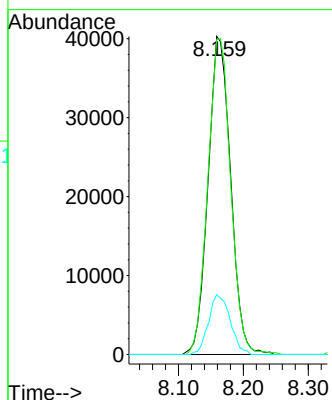
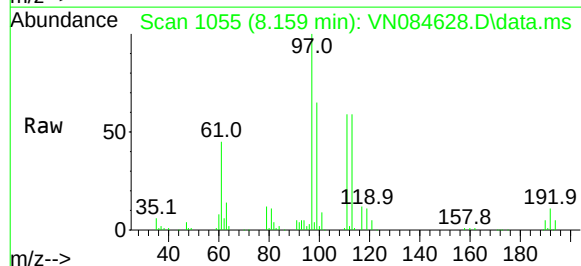
#35
Dibromofluoromethane
Concen: 47.992 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 113 Resp: 97295
Ion Ratio Lower Upper
113 100
111 100.6 83.3 124.9
192 18.1 13.5 20.3

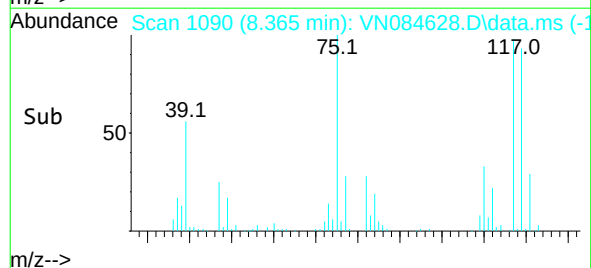
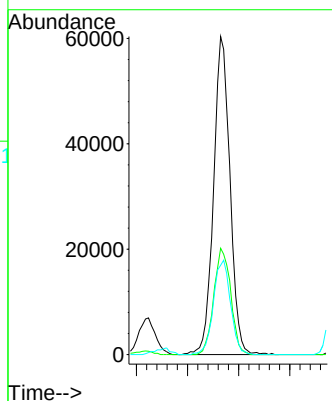
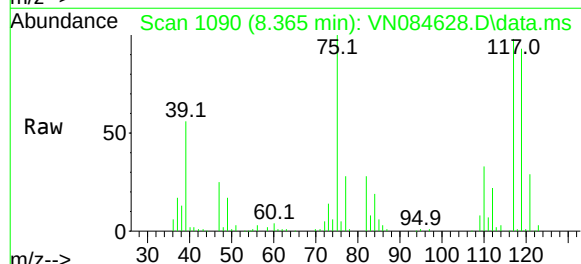
Manual Integrations
APPROVED

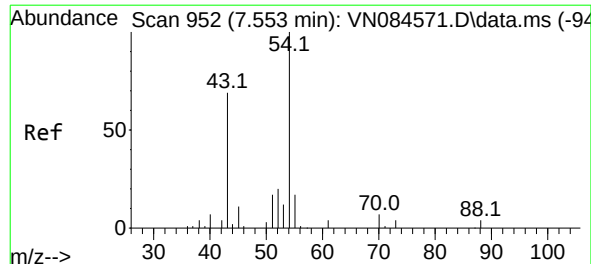
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#36
1,1-Dichloropropene
Concen: 47.960 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.006 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

Tgt Ion: 75 Resp: 134844
Ion Ratio Lower Upper
75 100
110 34.5 16.9 50.7
77 31.0 24.7 37.1





#37

Ethyl Acetate

Concen: 50.445 ug/l

RT: 7.559 min Scan# 952

Delta R.T. -0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 128683

Ion Ratio Lower Upper

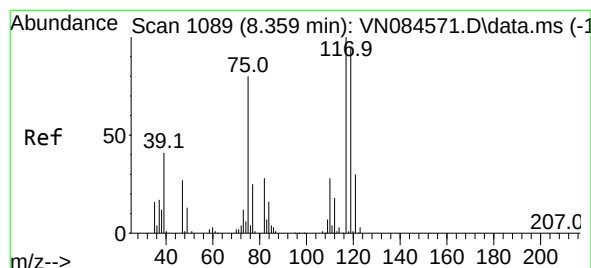
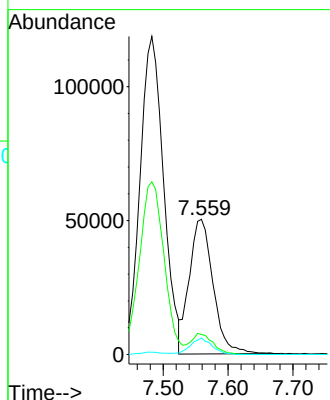
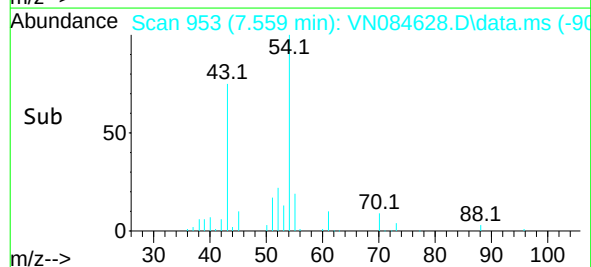
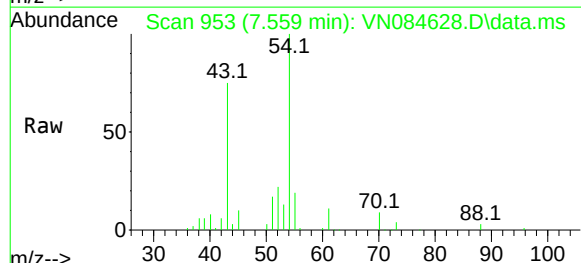
43 100

61 13.8 10.7 16.1

70 11.0 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#38

Carbon Tetrachloride

Concen: 48.951 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

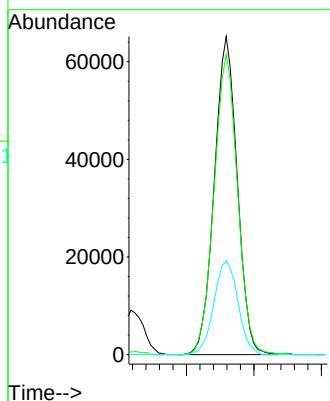
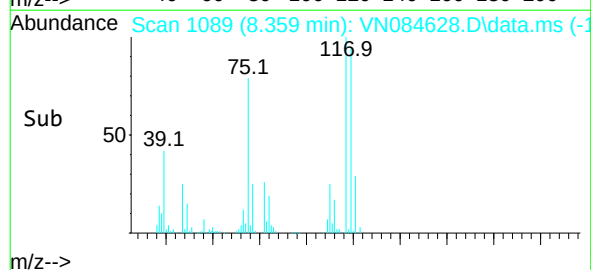
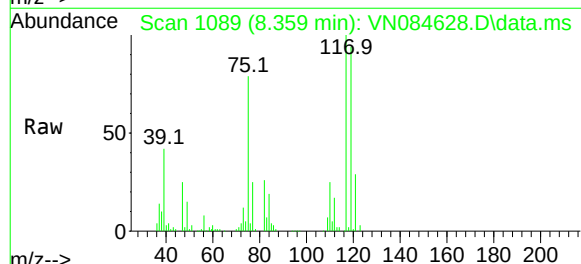
Tgt Ion:117 Resp: 153837

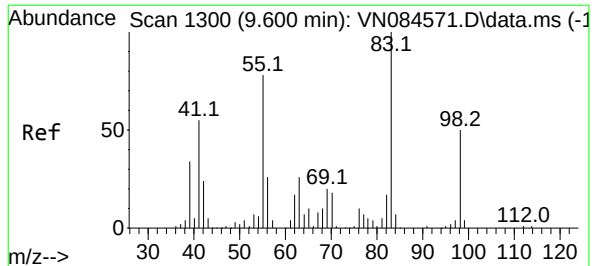
Ion Ratio Lower Upper

117 100

119 94.3 78.7 118.1

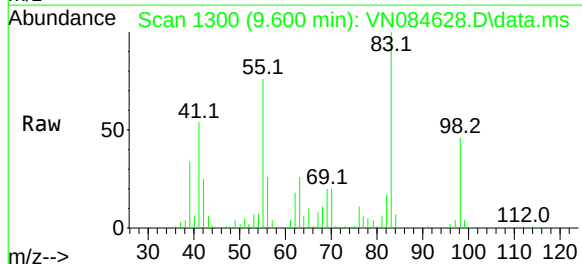
121 29.4 24.4 36.6





#39
Methylcyclohexane
Concen: 51.312 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. -0.000 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

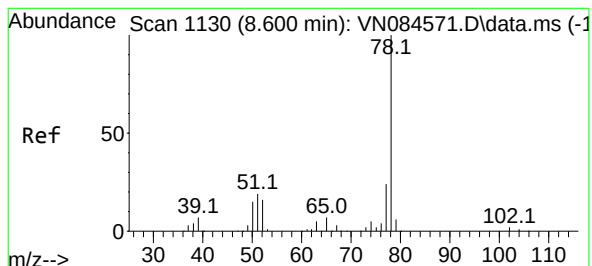
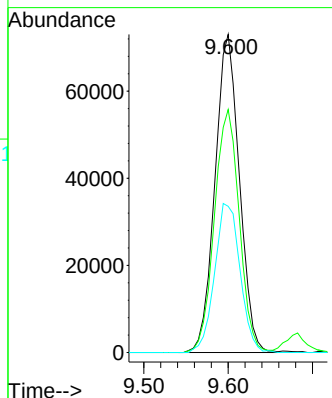
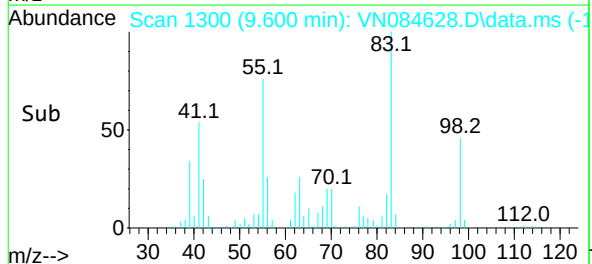
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 83 Resp: 146769
Ion Ratio Lower Upper
83 100
55 76.4 62.8 94.2
98 46.0 38.8 58.2

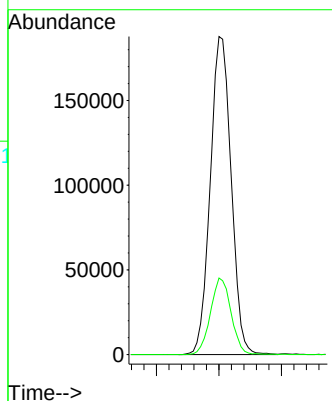
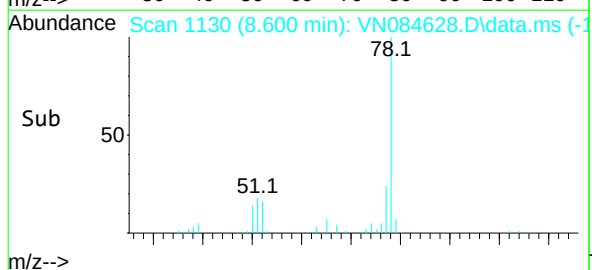
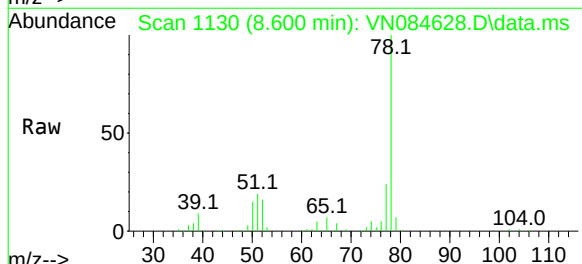
Manual Integrations
APPROVED

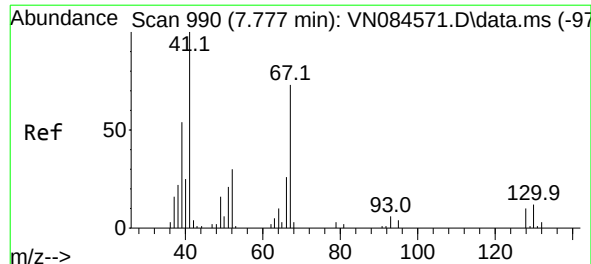
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#40
Benzene
Concen: 48.319 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

Tgt Ion: 78 Resp: 436290
Ion Ratio Lower Upper
78 100
77 24.1 19.1 28.7





#41

Methacrylonitrile

Concen: 53.631 ug/l

RT: 7.771 min Scan# 98

Delta R.T. -0.006 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 41 Resp: 73571

Ion Ratio Lower Upper

41 100

39 52.8 43.3 64.9

67 72.9 56.1 84.1

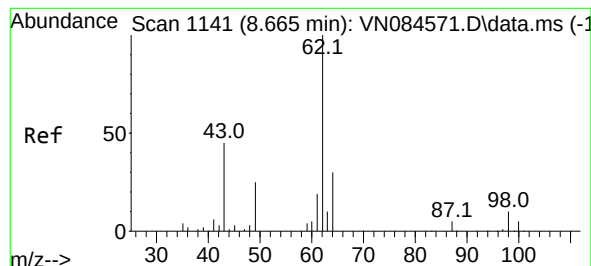
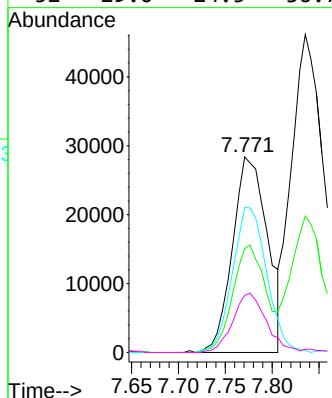
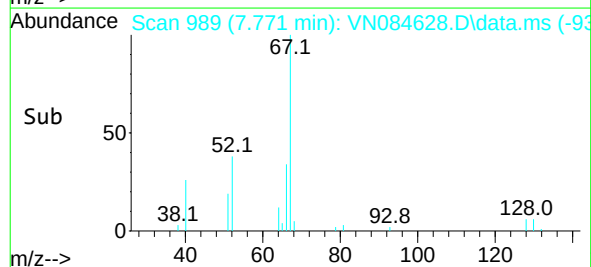
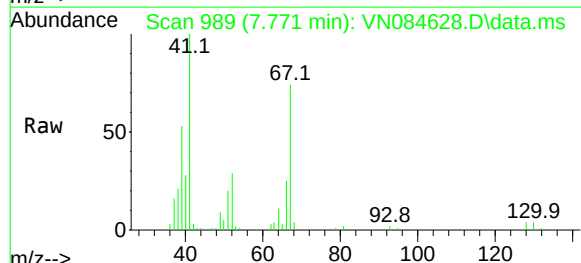
52 29.0 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024



#42

1,2-Dichloroethane

Concen: 49.594 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VN084628.D

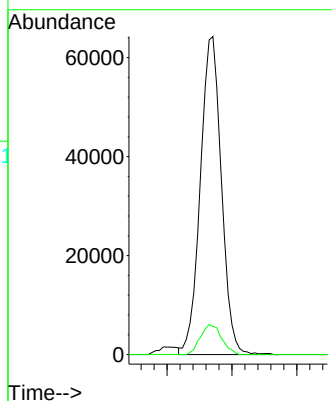
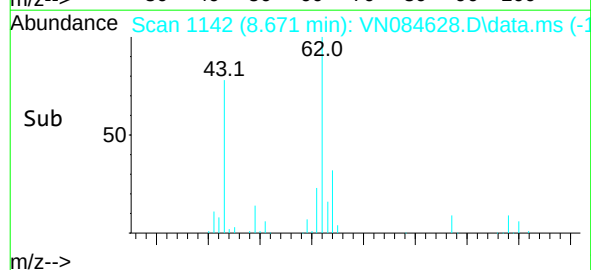
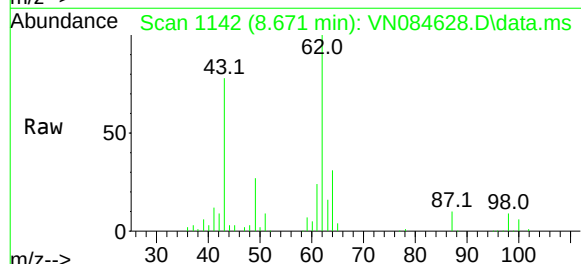
Acq: 01 Nov 2024 10:22

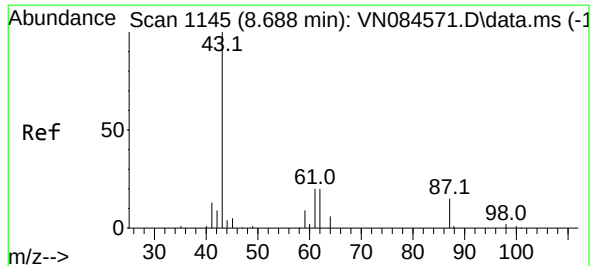
Tgt Ion: 62 Resp: 145026

Ion Ratio Lower Upper

62 100

98 9.5 0.0 18.2





#43

Isopropyl Acetate

Concen: 46.323 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 218643

Ion Ratio Lower Upper

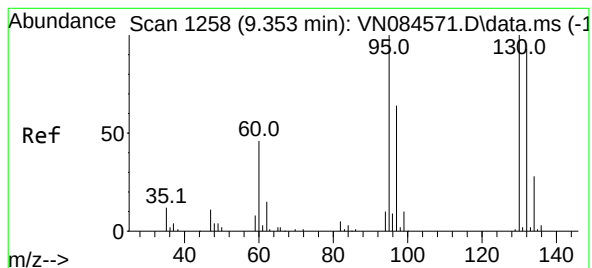
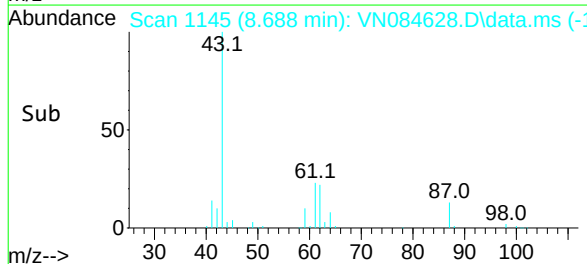
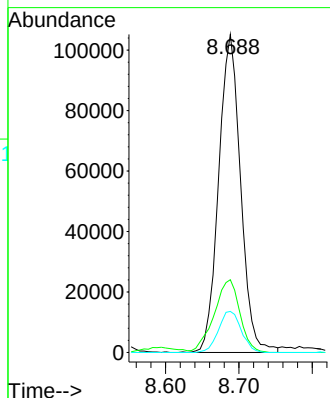
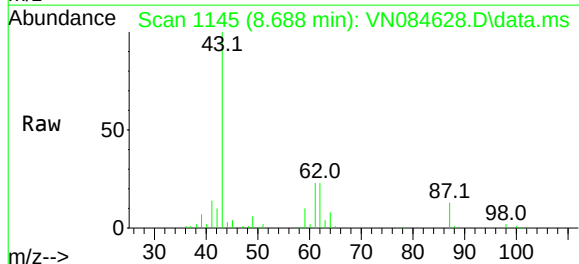
43 100

61 26.9 20.4 30.6

87 13.4 10.3 15.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#44

Trichloroethene

Concen: 46.787 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN084628.D

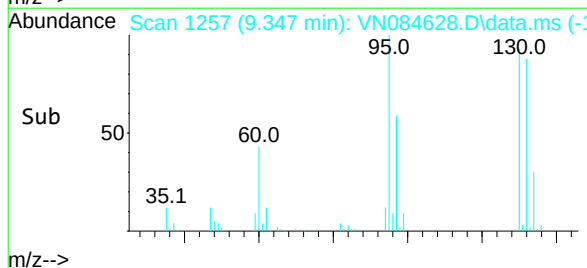
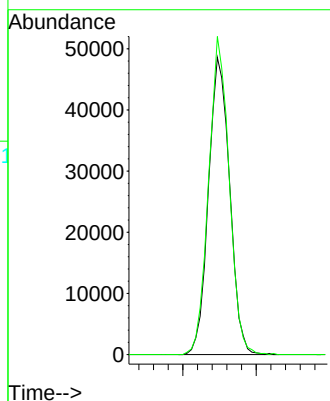
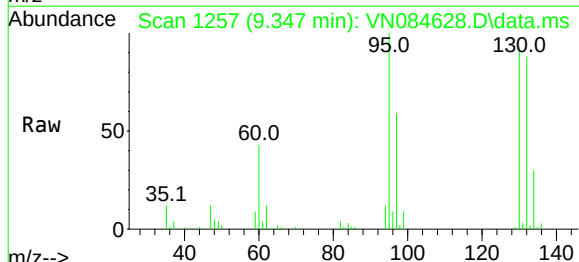
Acq: 01 Nov 2024 10:22

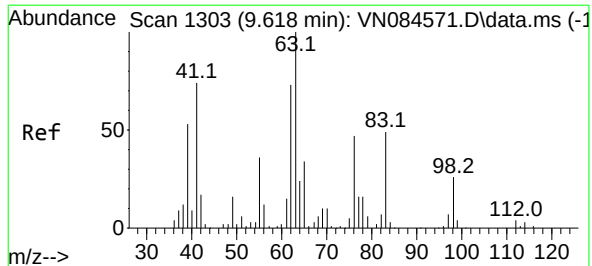
Tgt Ion:130 Resp: 97430

Ion Ratio Lower Upper

130 100

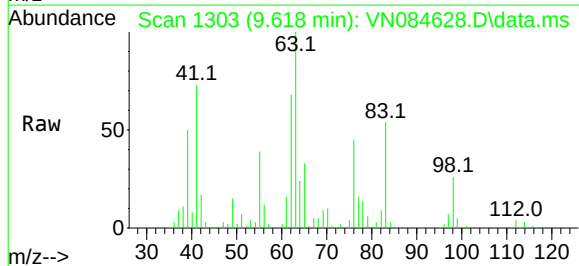
95 107.1 0.0 203.0





#45
1,2-Dichloropropane
Concen: 50.327 ug/l
RT: 9.618 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

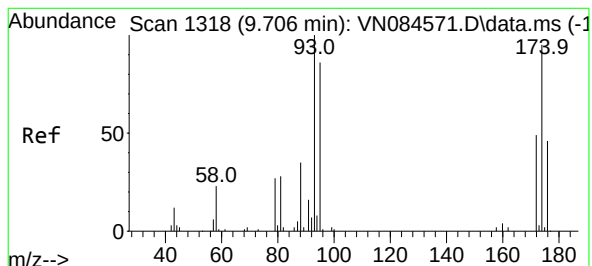
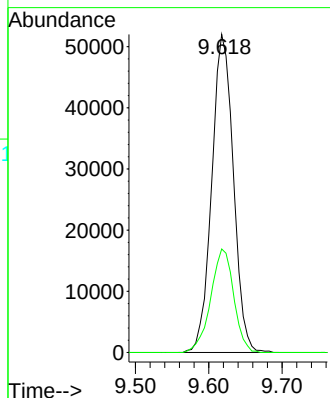
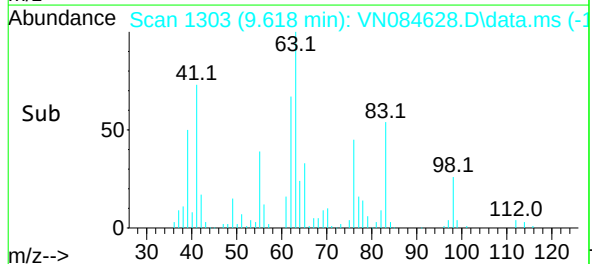
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 63 Resp: 106599
Ion Ratio Lower Upper
63 100
65 32.5 24.6 37.0

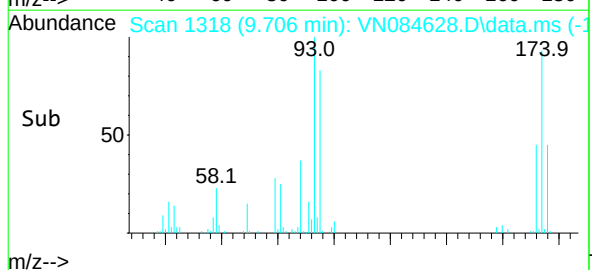
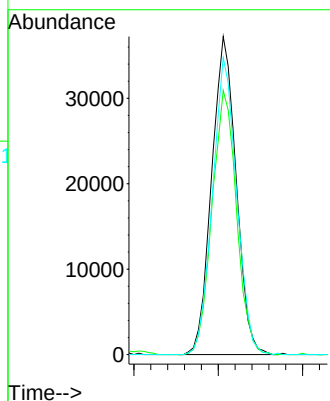
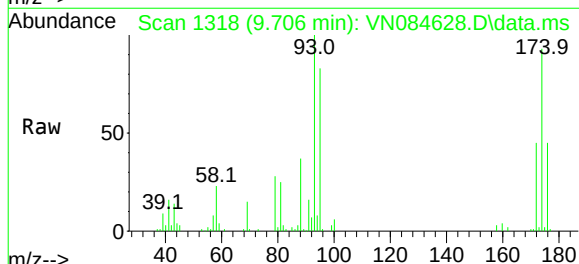
Manual Integrations
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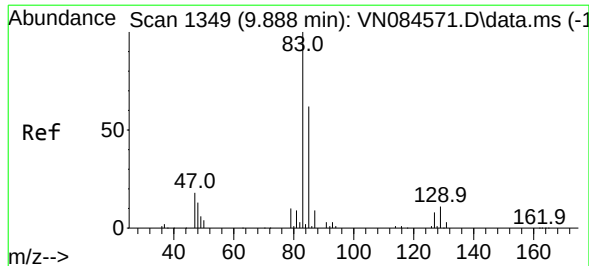
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#46
Dibromomethane
Concen: 50.221 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

Tgt Ion: 93 Resp: 75062
Ion Ratio Lower Upper
93 100
95 82.6 65.0 97.4
174 91.9 71.8 107.8





#47

Bromodichloromethane

Concen: 49.601 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 156271

Ion Ratio Lower Upper

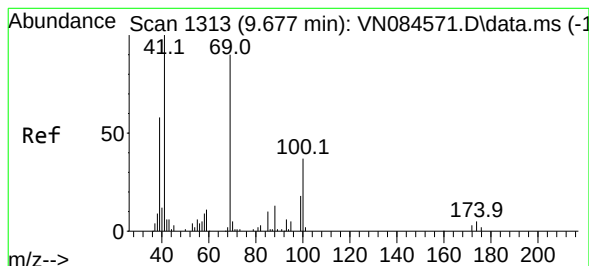
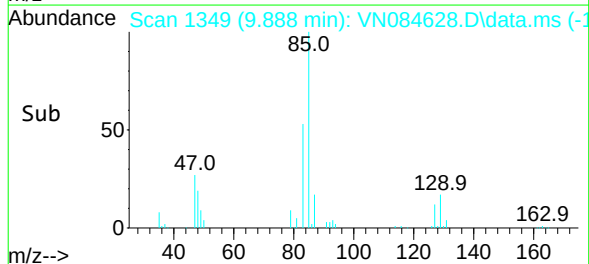
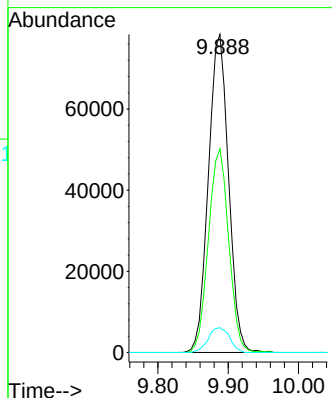
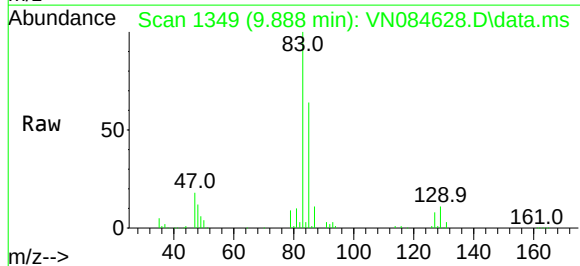
83 100

85 64.1 51.5 77.3

127 7.8 5.7 8.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#48

Methyl methacrylate

Concen: 53.047 ug/l

RT: 9.676 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

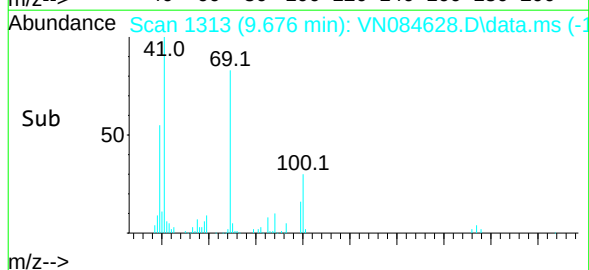
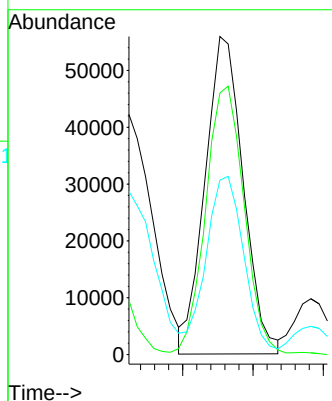
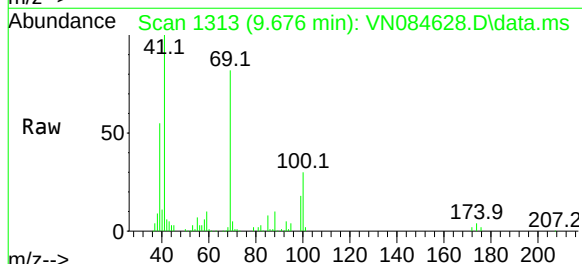
Tgt Ion: 41 Resp: 105317

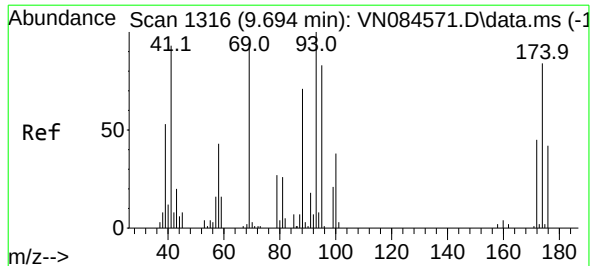
Ion Ratio Lower Upper

41 100

69 85.5 67.1 100.7

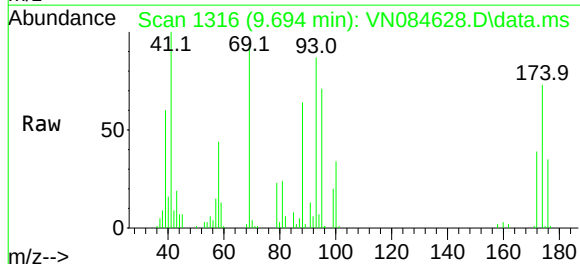
39 56.5 45.8 68.6





#49
1,4-Dioxane
Concen: 1072.921 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. -0.000 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

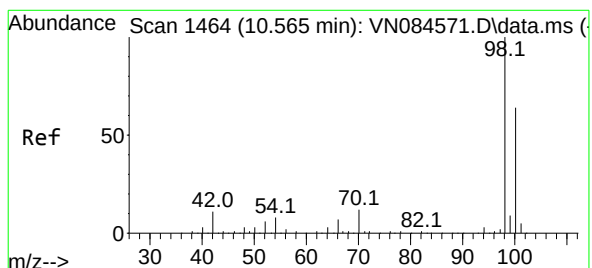
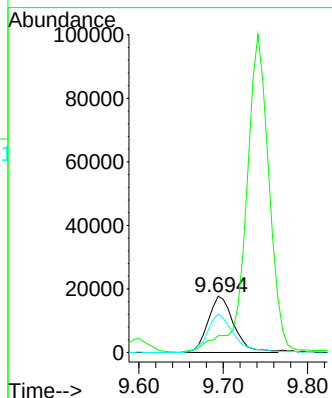
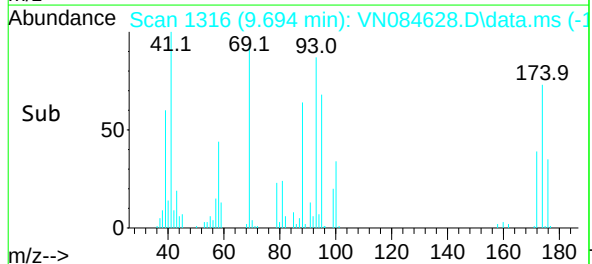
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 88 Resp: 37747
Ion Ratio Lower Upper
88 100
43 0.0 25.3 37.9#
58 70.8 56.4 84.6

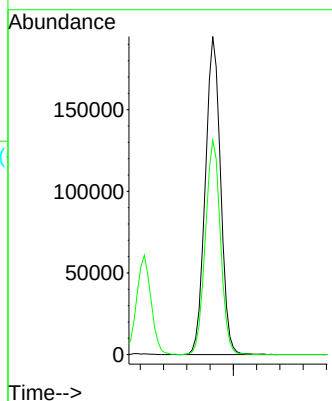
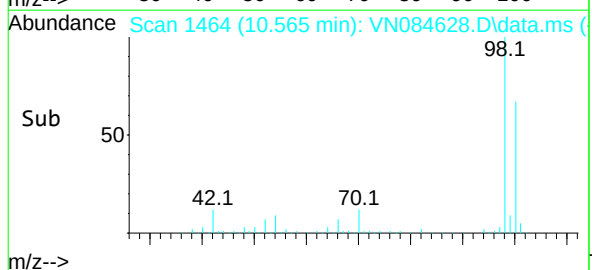
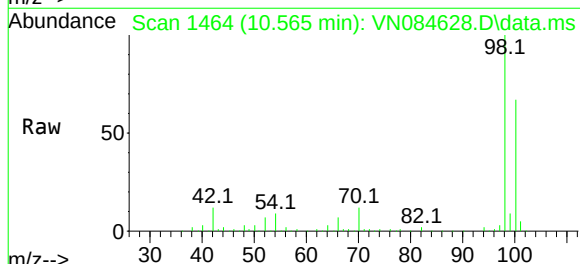
Manual Integrations
APPROVED

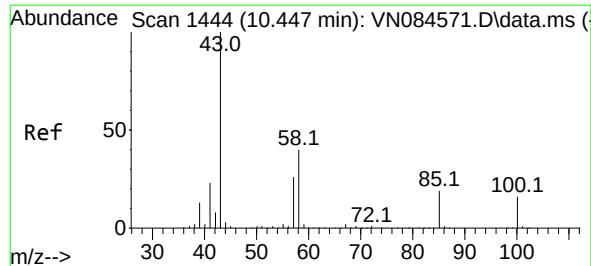
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#50
Toluene-d8
Concen: 47.545 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

Tgt Ion: 98 Resp: 355060
Ion Ratio Lower Upper
98 100
100 66.6 52.7 79.1





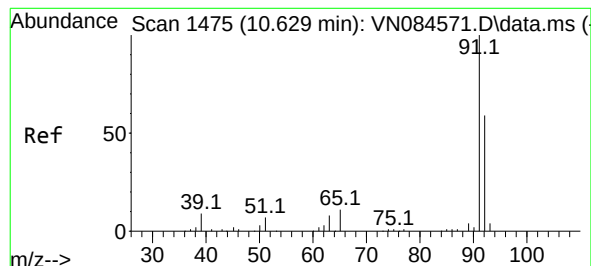
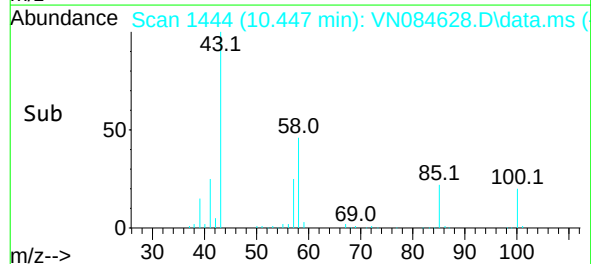
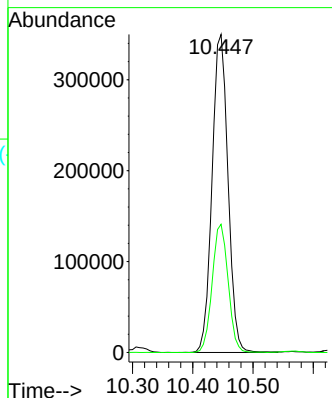
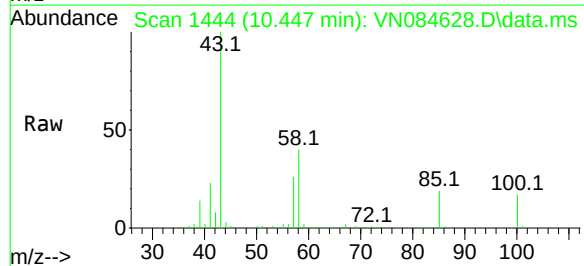
#51
4-Methyl-2-Pentanone
Concen: 264.740 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 643803
Ion Ratio Lower Upper
43 100
58 40.3 31.6 47.4

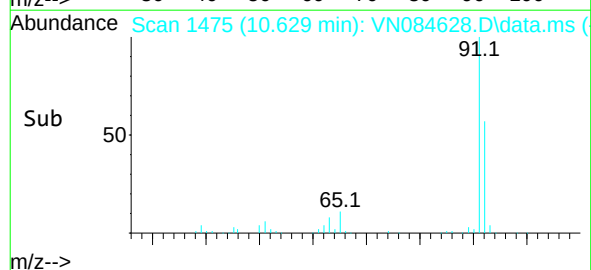
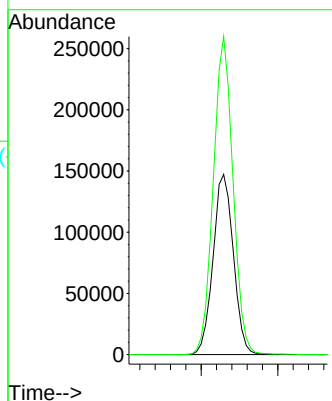
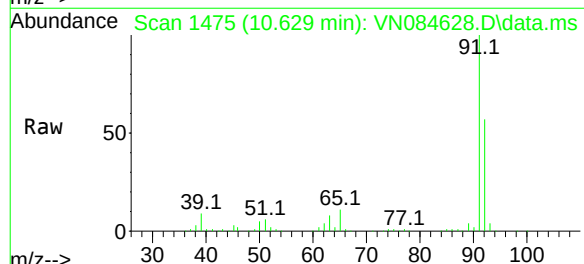
Manual Integrations
APPROVED

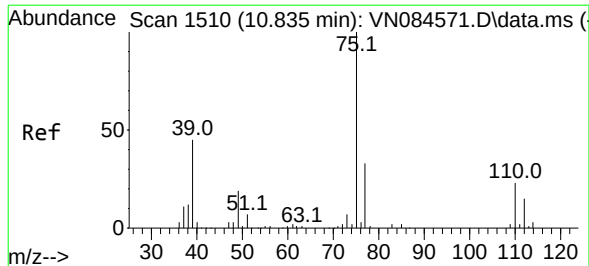
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#52
Toluene
Concen: 51.353 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

Tgt Ion: 92 Resp: 271189
Ion Ratio Lower Upper
92 100
91 170.9 137.3 205.9





#53

t-1,3-Dichloropropene

Concen: 47.438 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 154705

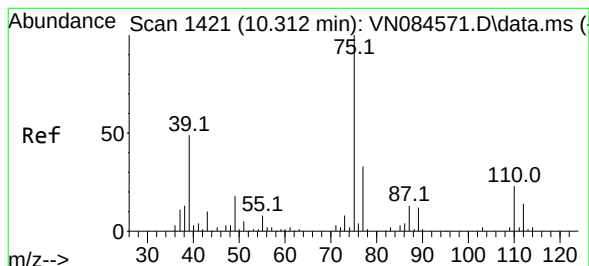
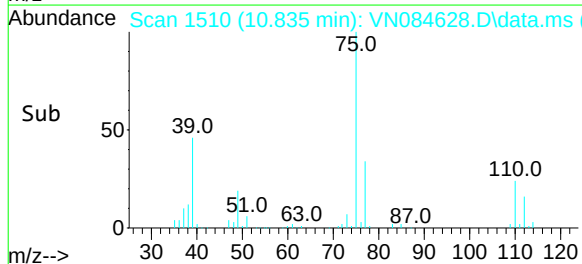
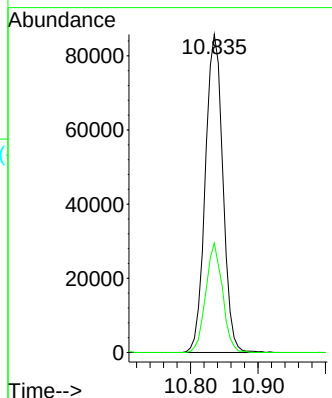
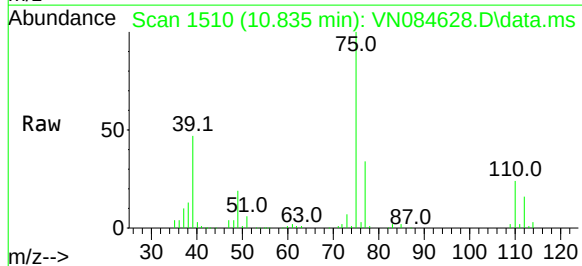
Ion Ratio Lower Upper

75 100

77 34.4 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#54

cis-1,3-Dichloropropene

Concen: 49.152 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. -0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

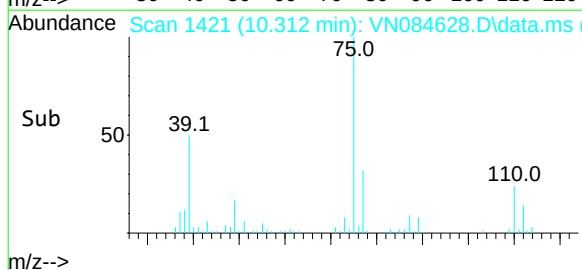
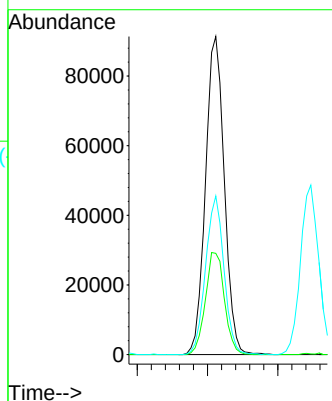
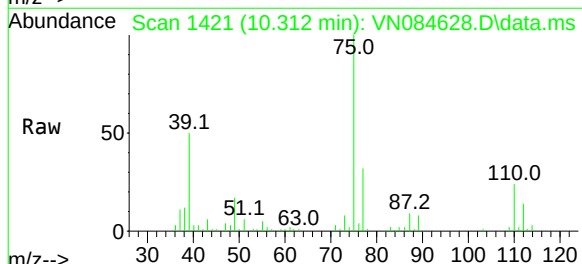
Tgt Ion: 75 Resp: 169654

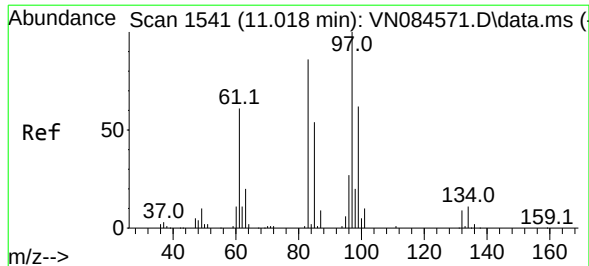
Ion Ratio Lower Upper

75 100

77 31.8 24.2 36.2

39 49.9 38.7 58.1





#55

1,1,2-Trichloroethane

Concen: 49.815 ug/l

RT: 11.018 min Scan# 15

Delta R.T. 0.006 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 97 Resp: 99093

Ion Ratio Lower Upper

97 100

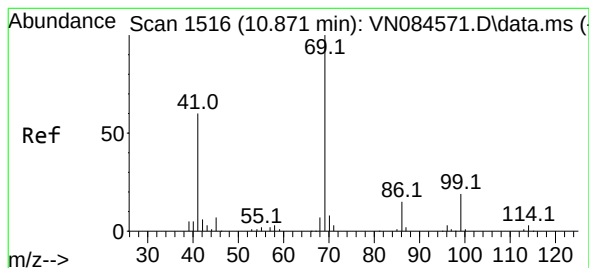
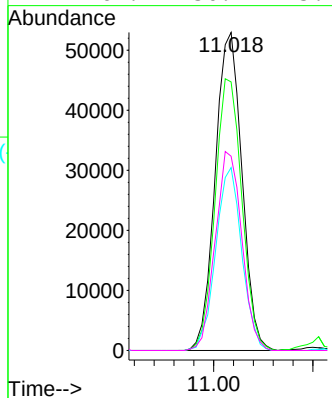
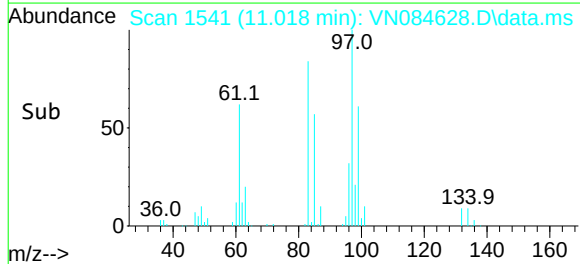
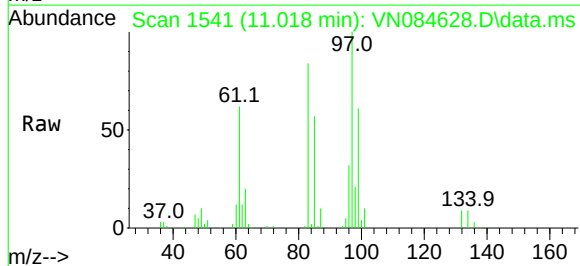
83 84.4 71.0 106.4

85 57.5 41.7 62.5

99 61.1 50.1 75.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#56

Ethyl methacrylate

Concen: 54.790 ug/l

RT: 10.876 min Scan# 1517

Delta R.T. 0.006 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

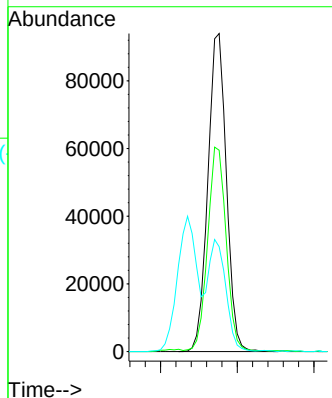
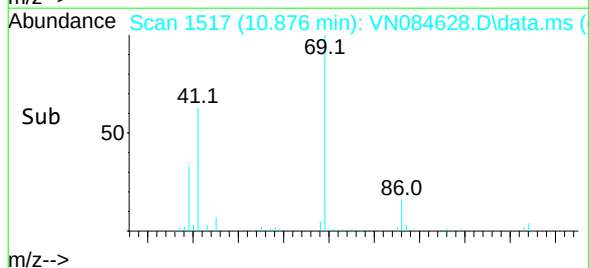
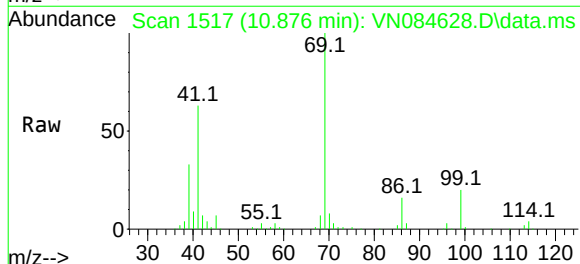
Tgt Ion: 69 Resp: 157649

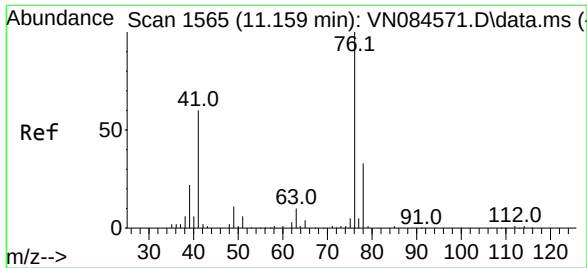
Ion Ratio Lower Upper

69 100

41 64.0 53.3 79.9

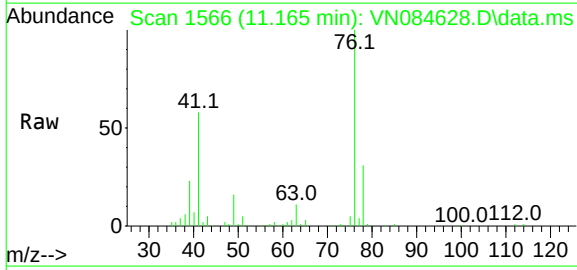
39 34.5 28.8 43.2





#57
1,3-Dichloropropane
Concen: 50.388 ug/l
RT: 11.165 min Scan# 1565
Delta R.T. 0.006 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

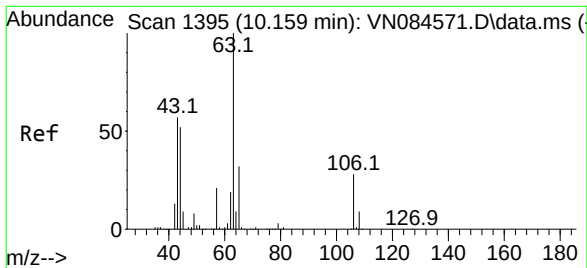
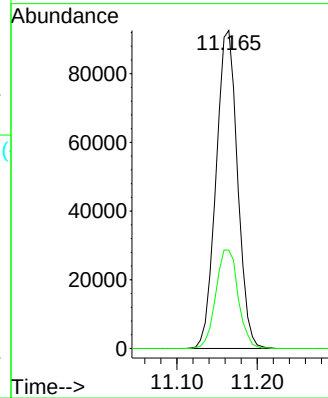
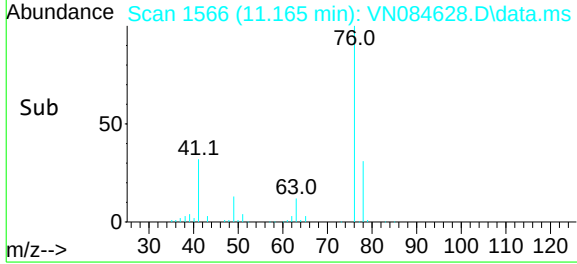
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 76 Resp: 172023
Ion Ratio Lower Upper
76 100
78 32.2 25.8 38.6

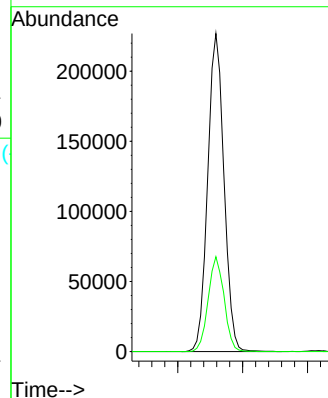
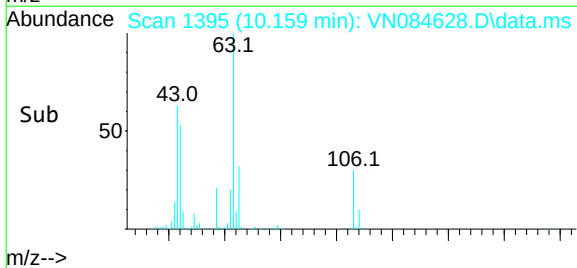
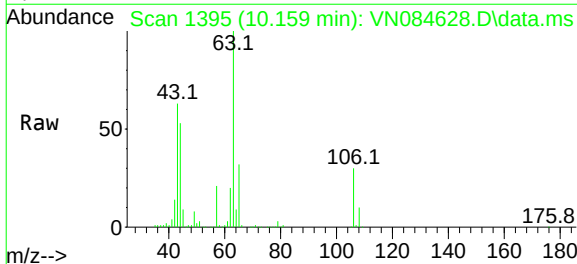
Manual Integrations
APPROVED

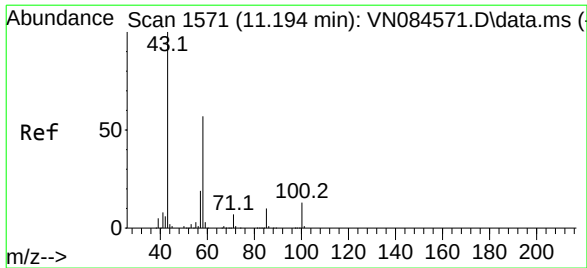
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#58
2-Chloroethyl Vinyl ether
Concen: 293.256 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

Tgt Ion: 63 Resp: 394841
Ion Ratio Lower Upper
63 100
106 29.2 21.8 32.6





#59

2-Hexanone

Concen: 267.380 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 473287

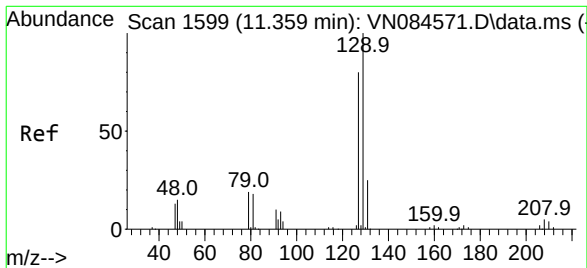
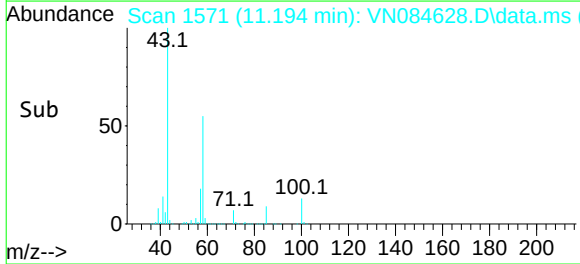
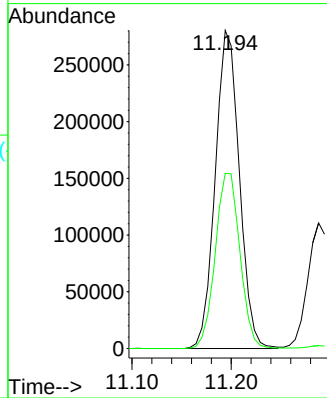
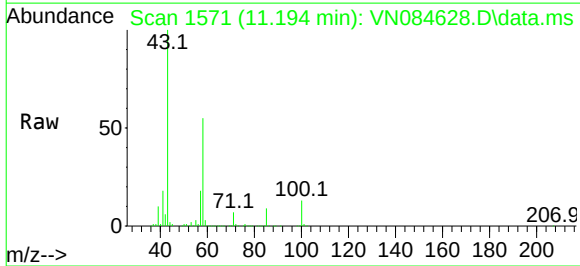
Ion Ratio Lower Upper

43 100

58 56.3 27.3 81.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#60

Dibromochloromethane

Concen: 52.956 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. -0.000 min

Lab File: VN084628.D

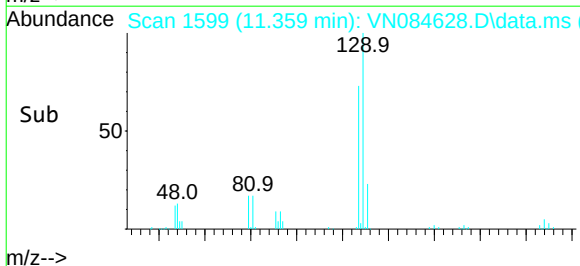
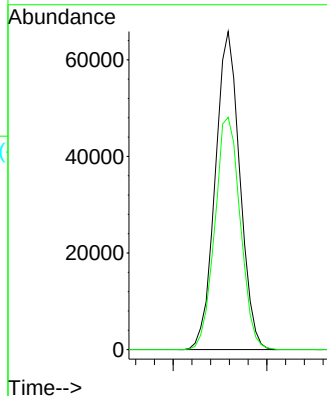
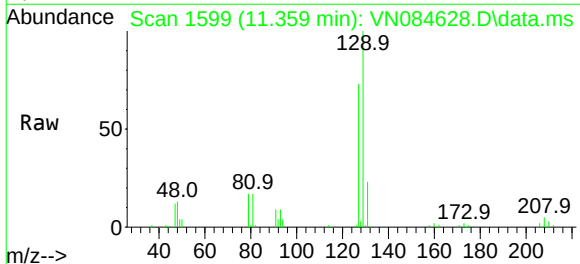
Acq: 01 Nov 2024 10:22

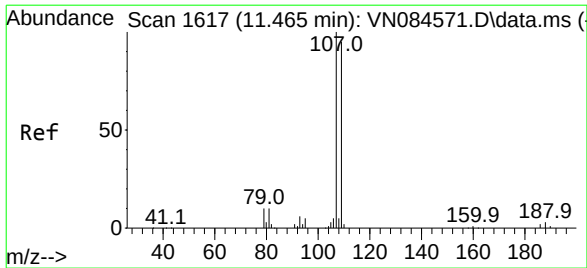
Tgt Ion:129 Resp: 120058

Ion Ratio Lower Upper

129 100

127 75.5 38.3 114.9





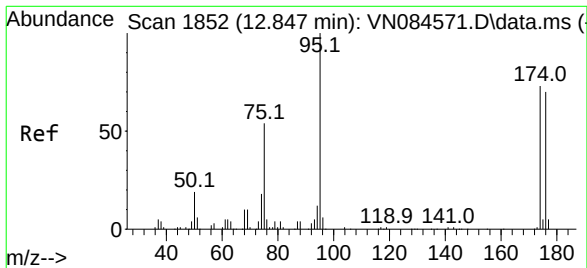
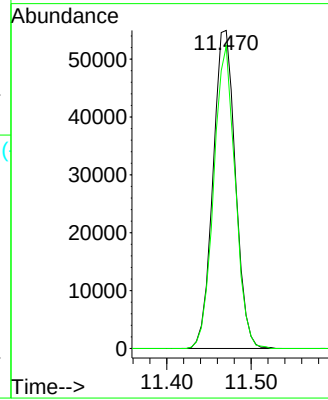
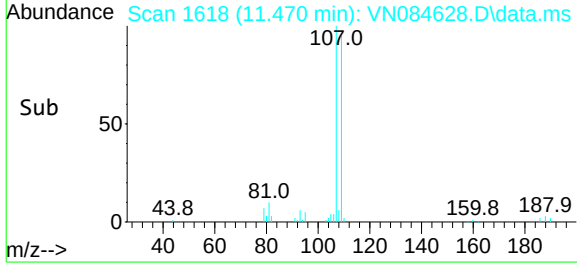
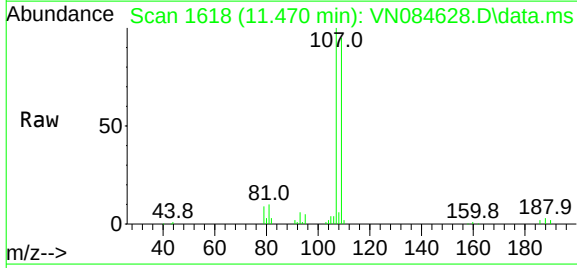
#61
1,2-Dibromoethane
Concen: 49.699 ug/l
RT: 11.470 min Scan# 1617
Delta R.T. 0.006 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 107 Resp: 101240
Ion Ratio Lower Upper
107 100
109 91.4 75.4 113.0

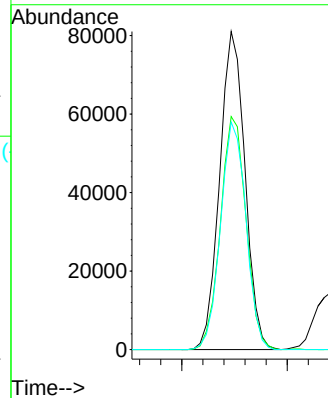
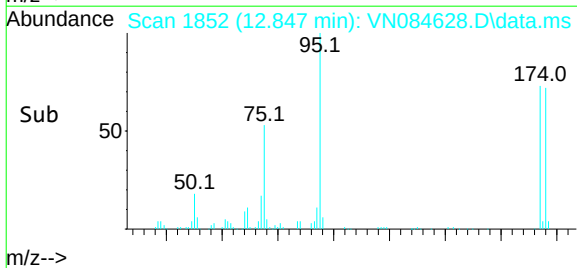
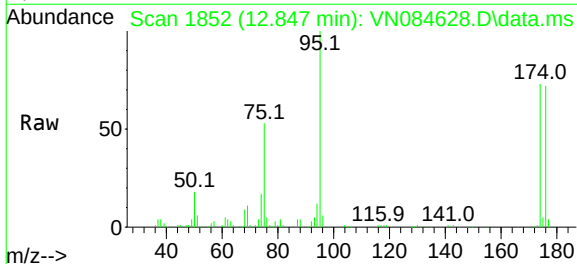
Manual Integrations
APPROVED

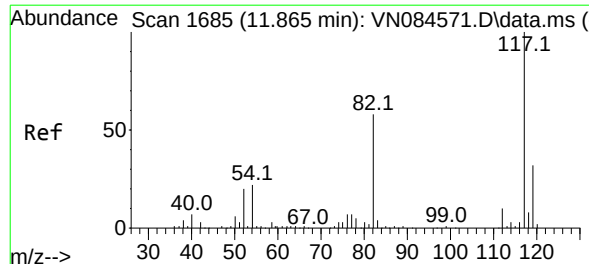
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#62
4-Bromofluorobenzene
Concen: 48.418 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

Tgt Ion: 95 Resp: 135136
Ion Ratio Lower Upper
95 100
174 74.2 0.0 145.2
176 71.8 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:117 Resp: 271207

Ion Ratio Lower Upper

117 100

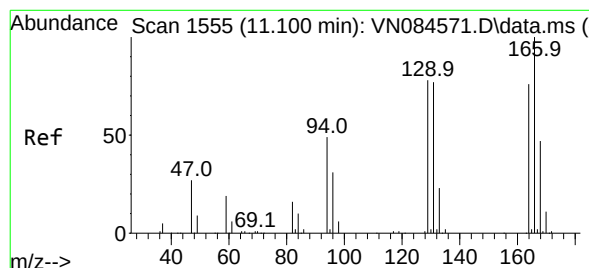
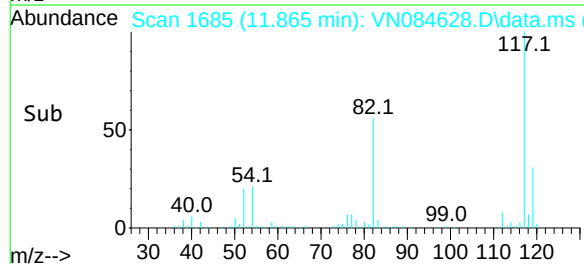
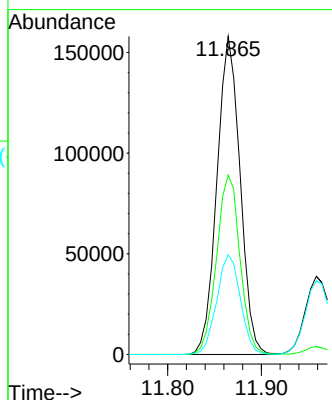
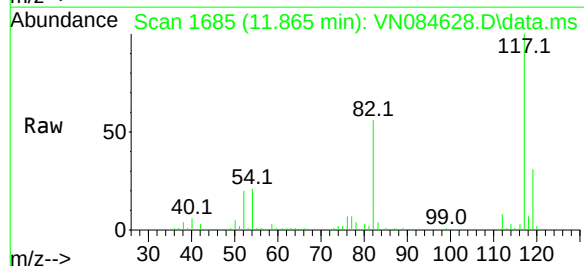
82 56.4 47.2 70.8

119 31.4 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
 Supervised By :Semsettin Yesilyurt 11/04/2024



#64

Tetrachloroethene

Concen: 49.207 ug/l

RT: 11.106 min Scan# 1556

Delta R.T. 0.006 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Tgt Ion:164 Resp: 88769

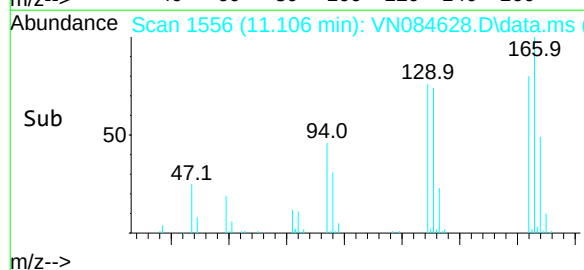
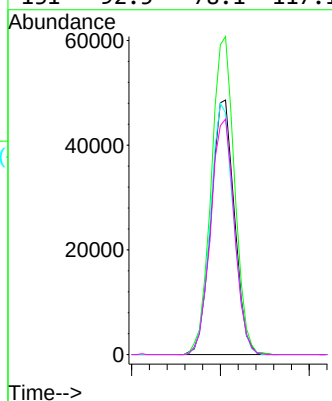
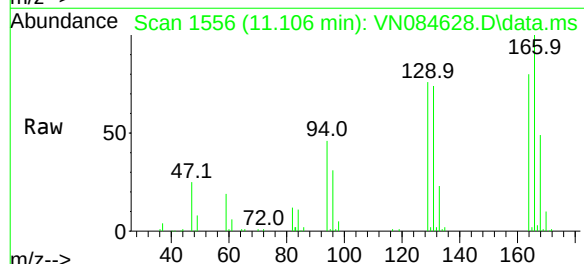
Ion Ratio Lower Upper

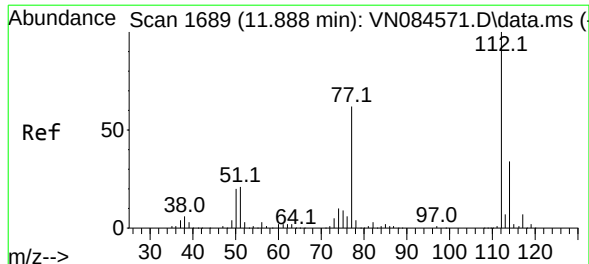
164 100

166 124.9 101.0 151.4

129 95.0 80.8 121.2

131 92.5 78.1 117.1





#65

Chlorobenzene

Concen: 46.410 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:112 Resp: 281585

Ion Ratio Lower Upper

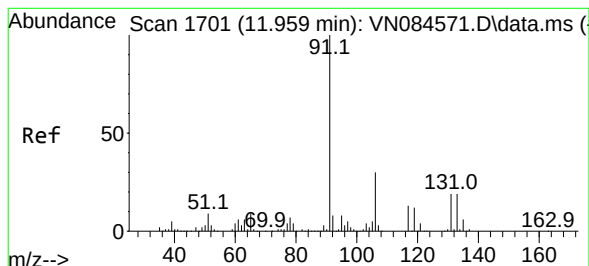
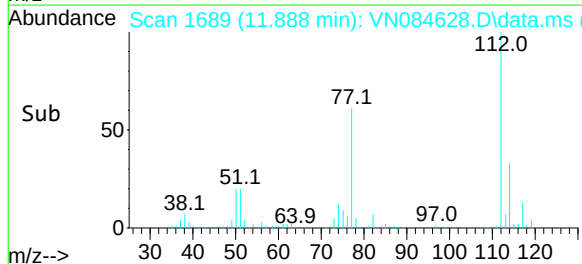
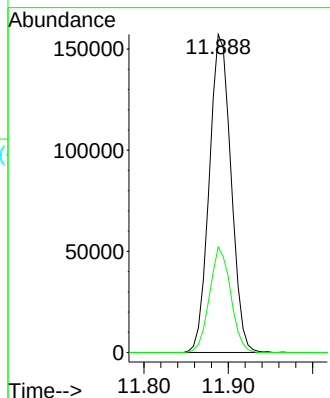
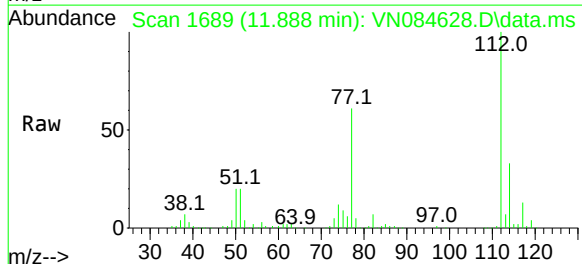
112 100

114 33.2 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 48.299 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

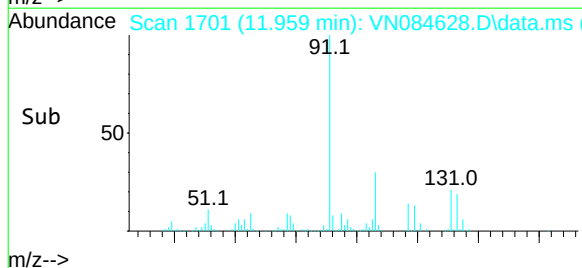
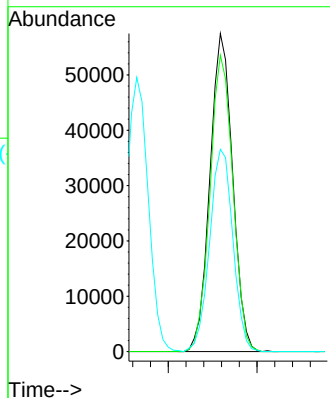
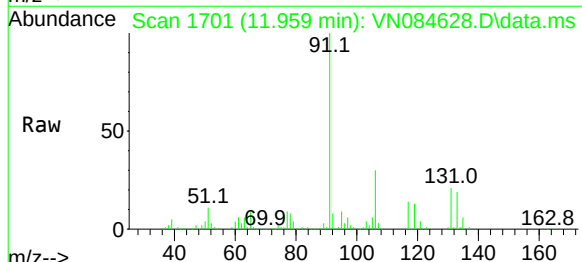
Tgt Ion:131 Resp: 101931

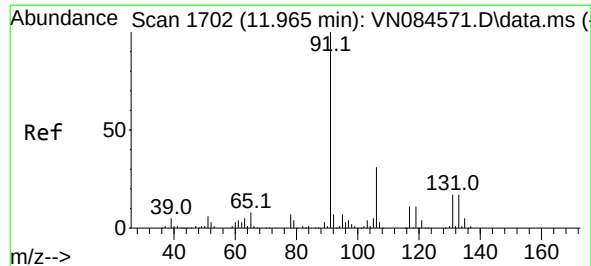
Ion Ratio Lower Upper

131 100

133 93.8 47.9 143.7

119 65.2 32.8 98.3





#67

Ethyl Benzene

Concen: 49.531 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.006 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 501636

Ion Ratio Lower Upper

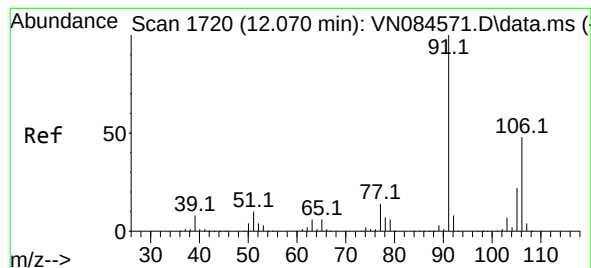
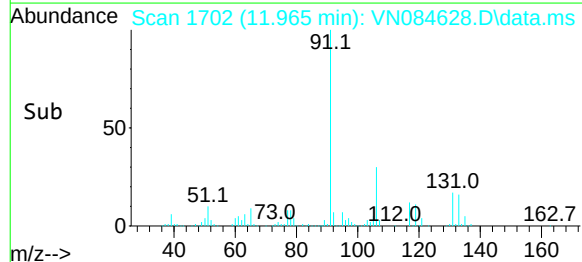
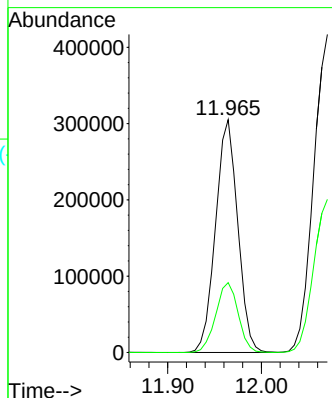
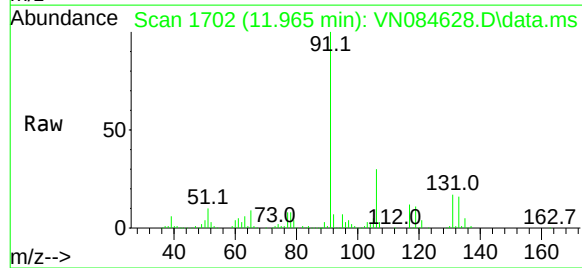
91 100

106 30.0 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#68

m/p-Xylenes

Concen: 101.948 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN084628.D

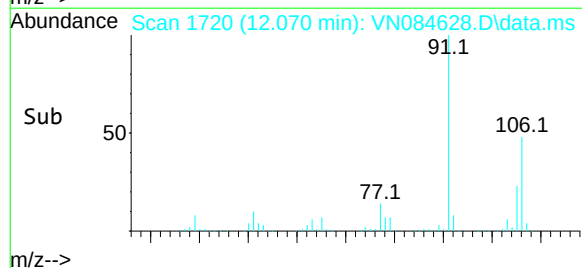
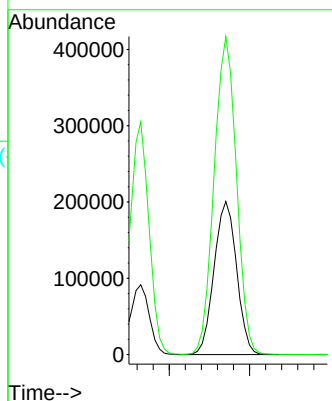
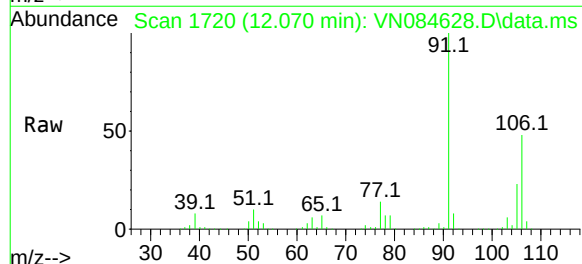
Acq: 01 Nov 2024 10:22

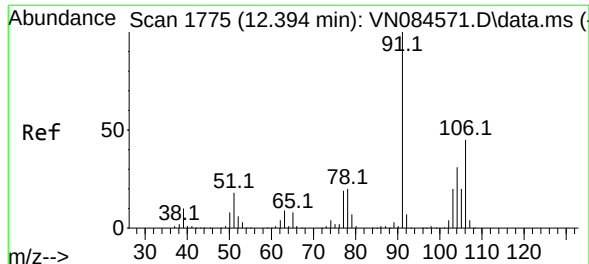
Tgt Ion:106 Resp: 390896

Ion Ratio Lower Upper

106 100

91 206.2 167.1 250.7





#69

o-Xylene

Concen: 51.466 ug/l

RT: 12.400 min Scan# 1775

Delta R.T. 0.006 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:106 Resp: 184603

Ion Ratio Lower Upper

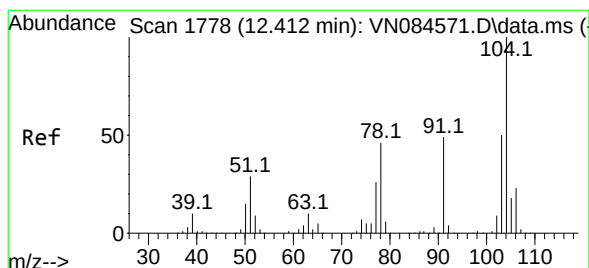
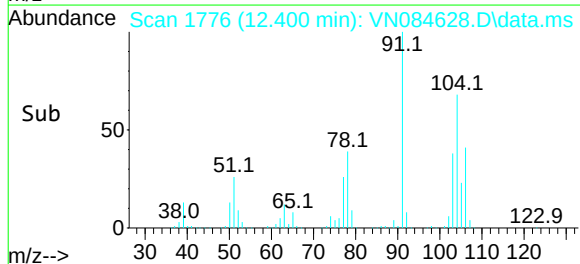
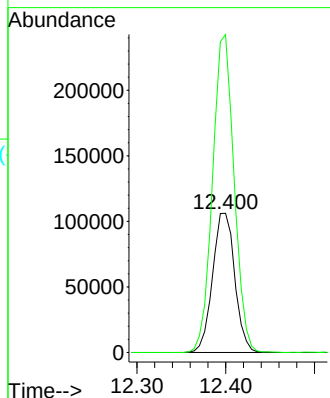
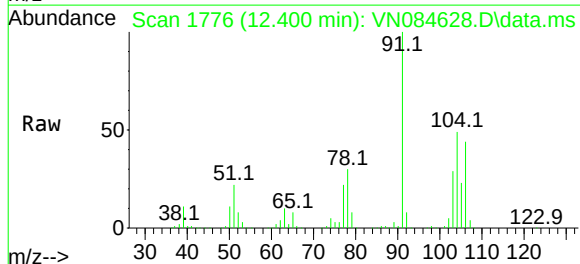
106 100

91 221.6 110.2 330.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
 Supervised By :Semsettin Yesilyurt 11/04/2024



#70

Styrene

Concen: 51.179 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

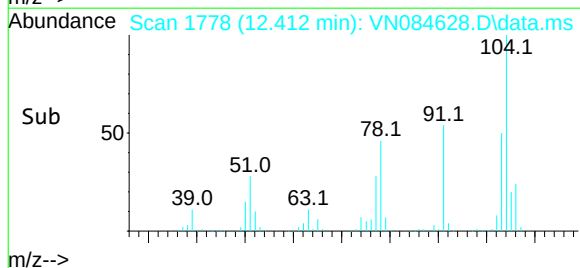
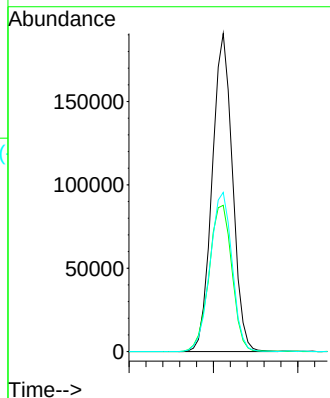
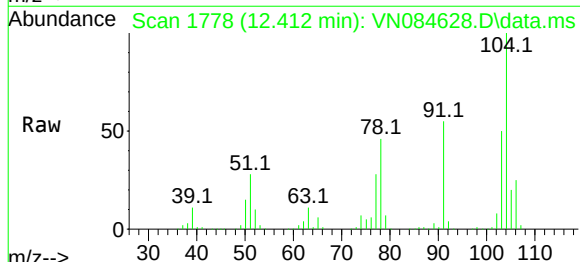
Tgt Ion:104 Resp: 320232

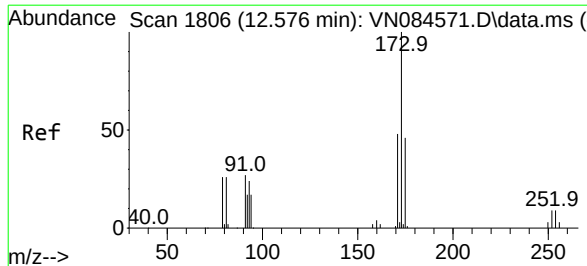
Ion Ratio Lower Upper

104 100

78 51.8 42.7 64.1

103 54.3 43.6 65.4





#71

Bromoform

Concen: 50.263 ug/l

RT: 12.576 min Scan# 18

Delta R.T. -0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

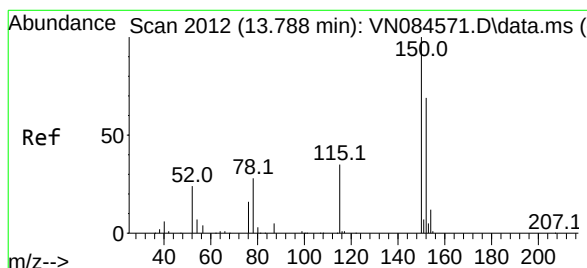
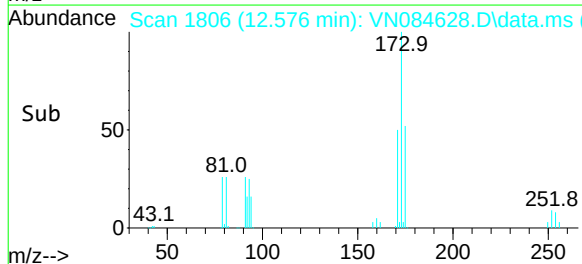
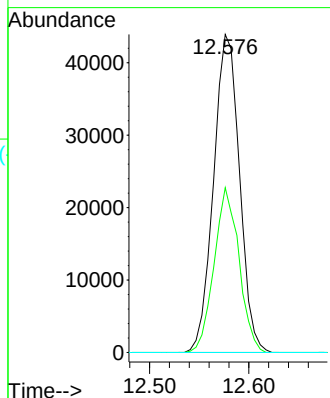
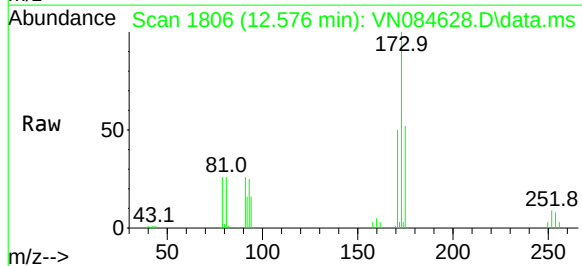
VSTDCCC050

Tgt Ion:	173	Resp:	79820
Ion Ratio	Lower	Upper	
173	100		
175	49.7	23.5	70.6
254	0.0	0.0	0.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

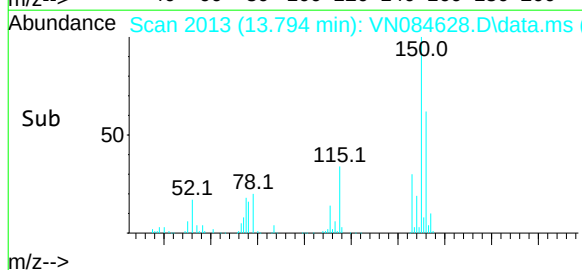
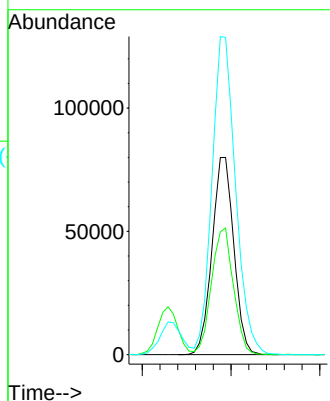
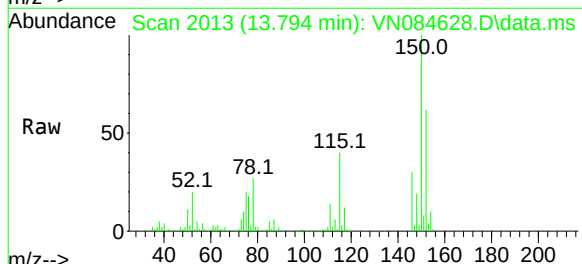
RT: 13.794 min Scan# 2013

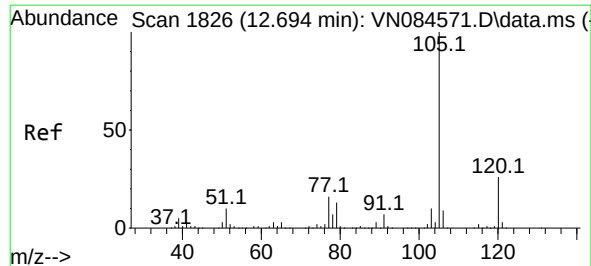
Delta R.T. 0.006 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Tgt Ion:	152	Resp:	136355
Ion Ratio	Lower	Upper	
152	100		
115	64.4	31.3	93.9
150	174.9	0.0	349.8





#73

Isopropylbenzene

Concen: 49.514 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 105 Resp: 473125

Ion Ratio Lower Upper

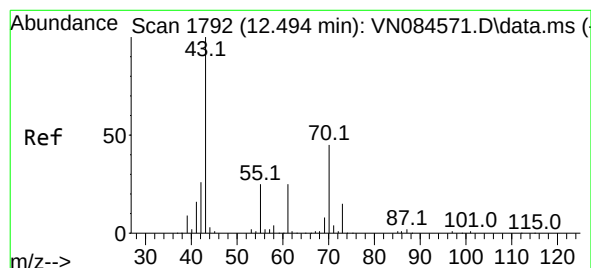
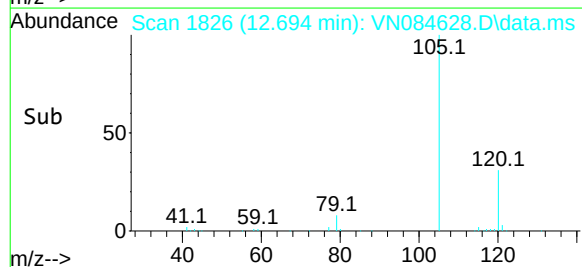
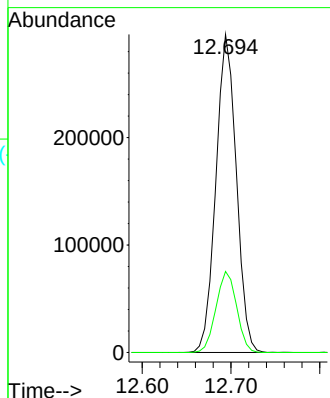
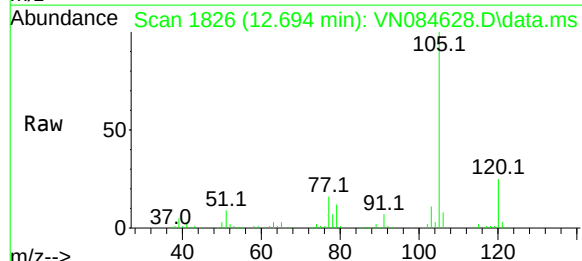
105 100

120 25.6 12.9 38.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#74

N-ethyl acetate

Concen: 48.799 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Tgt Ion: 43 Resp: 198462

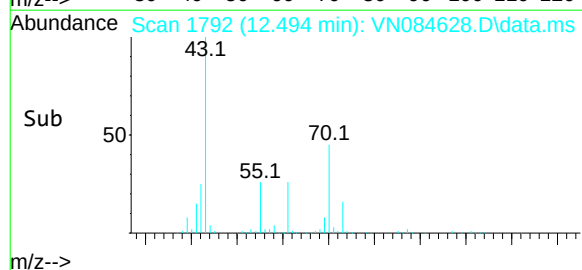
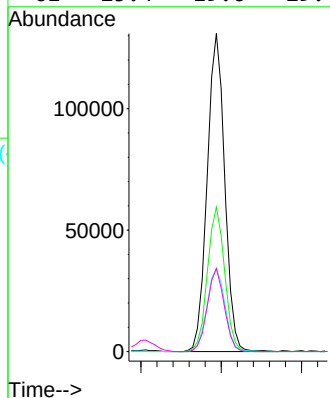
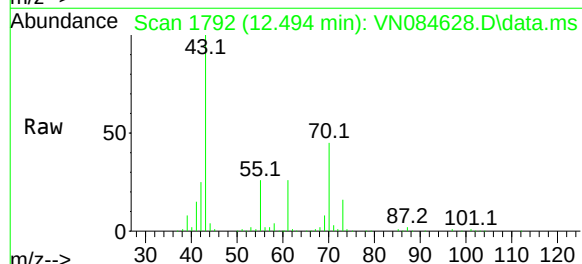
Ion Ratio Lower Upper

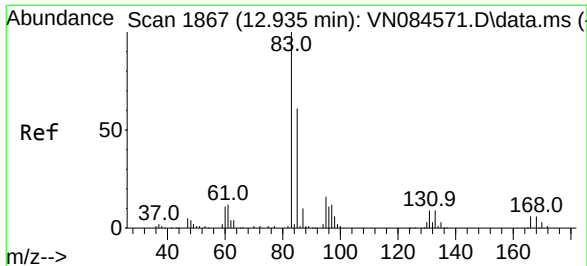
43 100

70 44.7 34.4 51.6

55 26.8 19.6 29.4

61 25.4 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 46.136 ug/l

RT: 12.941 min Scan# 1867

Delta R.T. 0.006 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

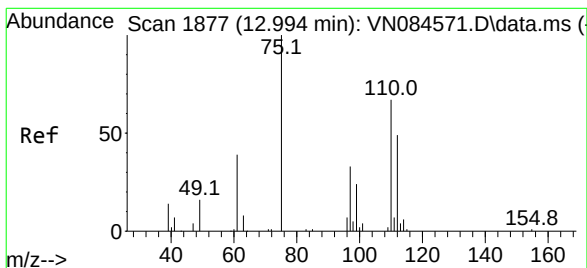
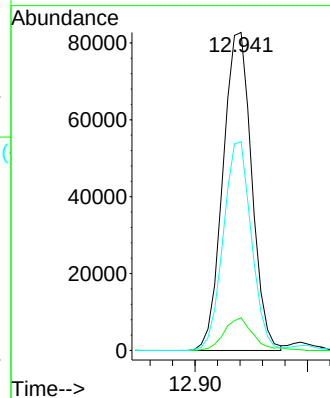
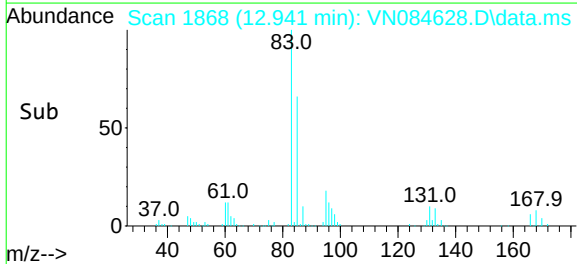
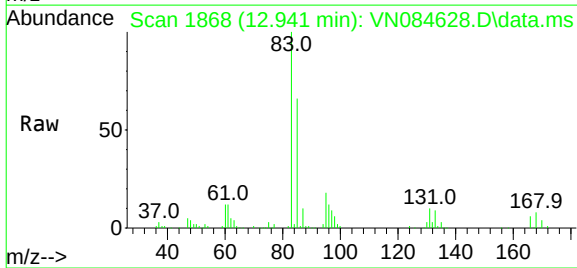
VSTDCCC050

Tgt Ion:	83	Resp:	147150
Ion	Ratio	Lower	Upper
83	100		
131	10.5	4.9	14.7
85	64.1	31.9	95.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#76

1,2,3-Trichloropropane

Concen: 44.254 ug/l m

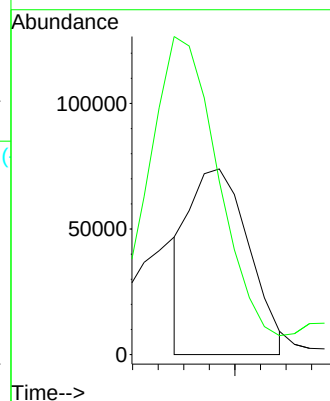
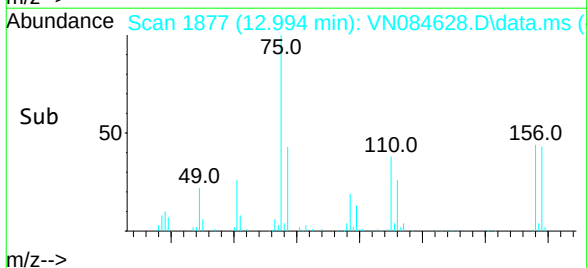
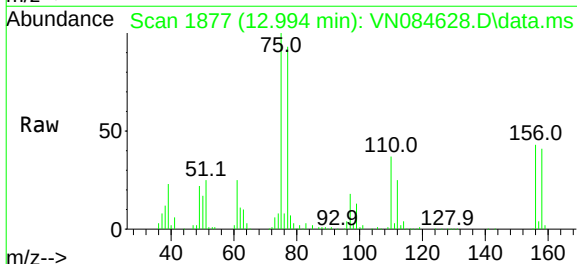
RT: 12.994 min Scan# 1877

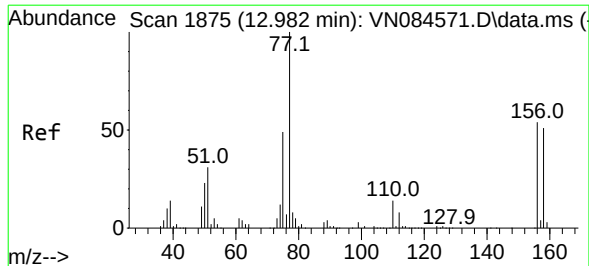
Delta R.T. 0.006 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

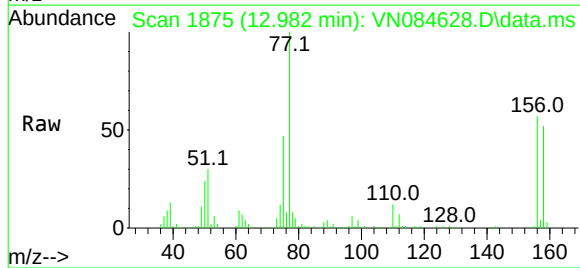
Tgt Ion:	75	Resp:	120621
Ion	Ratio	Lower	Upper
75	100		
77	209.5	96.9	290.7





#77
Bromobenzene
Concen: 46.399 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

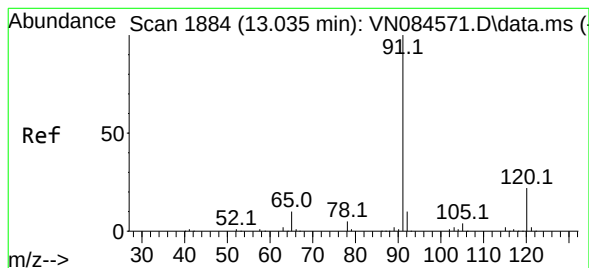
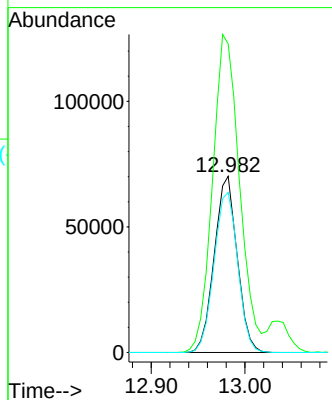
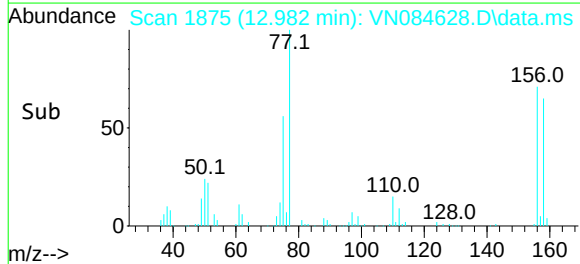
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 156 Resp: 119190
Ion Ratio Lower Upper
156 100
77 212.0 115.1 345.3
158 93.9 48.9 146.8

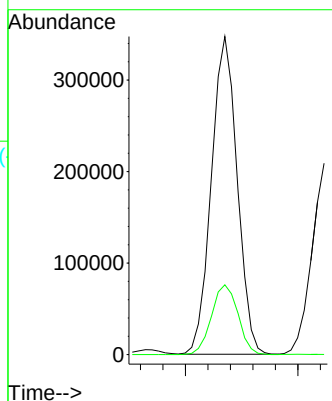
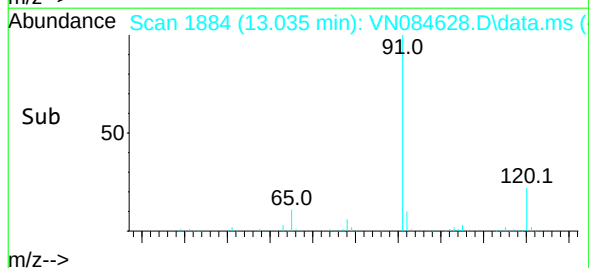
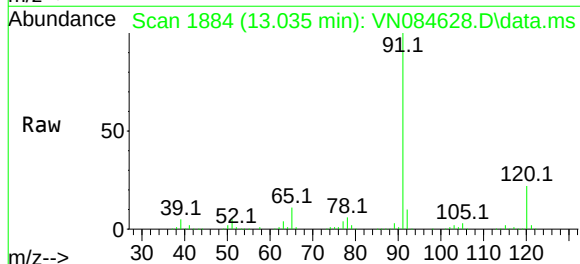
Manual Integrations
APPROVED

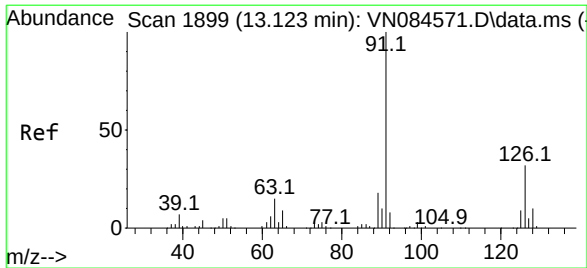
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#78
n-propylbenzene
Concen: 49.493 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN084628.D
Acq: 01 Nov 2024 10:22

Tgt Ion: 91 Resp: 554194
Ion Ratio Lower Upper
91 100
120 22.5 10.8 32.4





#79

2-Chlorotoluene

Concen: 48.213 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 352750

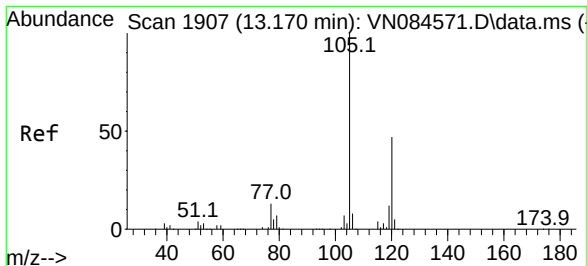
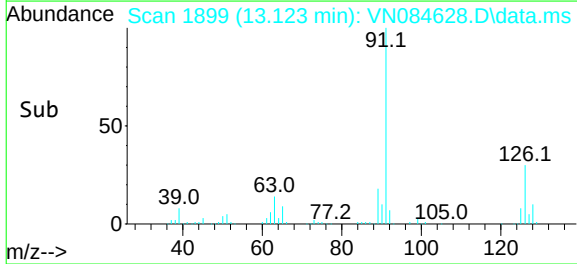
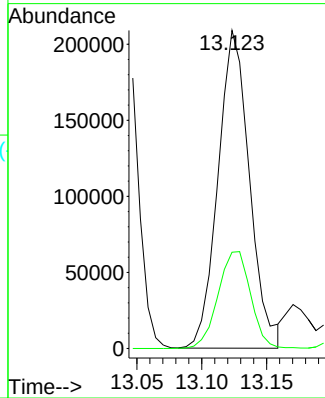
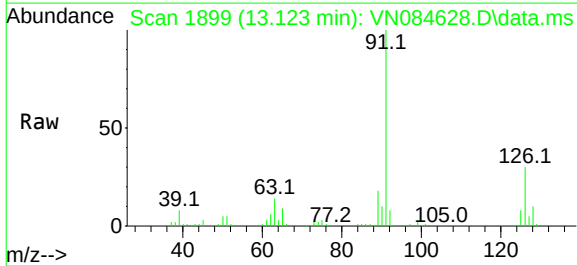
Ion Ratio Lower Upper

91 100

126 31.6 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#80

1,3,5-Trimethylbenzene

Concen: 50.871 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN084628.D

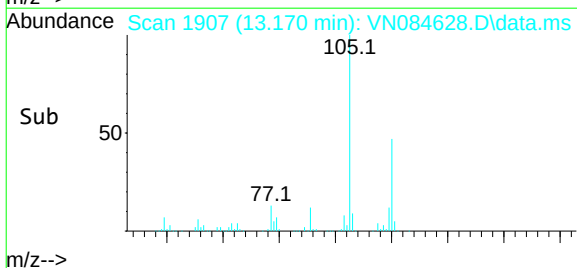
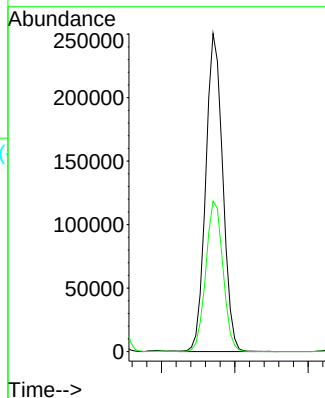
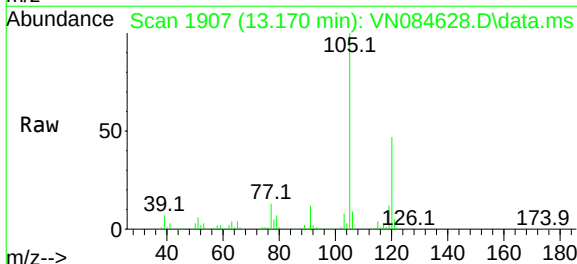
Acq: 01 Nov 2024 10:22

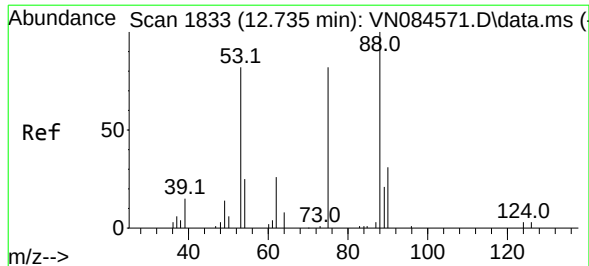
Tgt Ion:105 Resp: 402880

Ion Ratio Lower Upper

105 100

120 47.7 23.7 71.1





#81

trans-1,4-Dichloro-2-butene

Concen: 45.512 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN084628.D

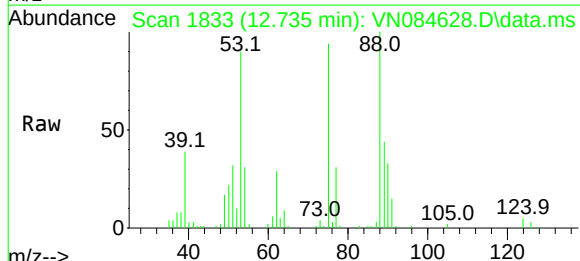
Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

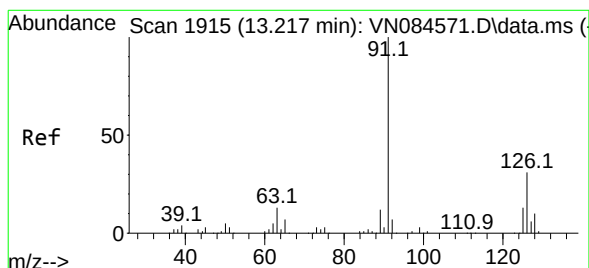
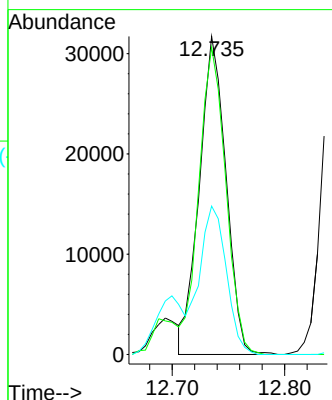
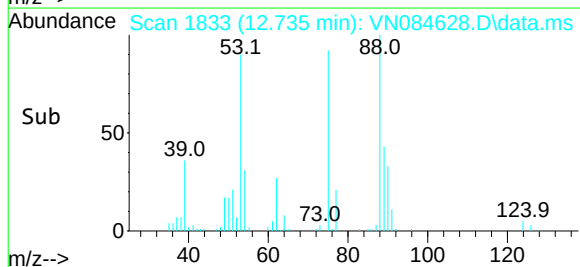
VSTDCCC050



Tgt Ion:	75	Resp:	52289
Ion	Ratio	Lower	Upper
75	100		
53	97.6	78.0	117.0
89	47.2	35.5	53.3

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#82

4-Chlorotoluene

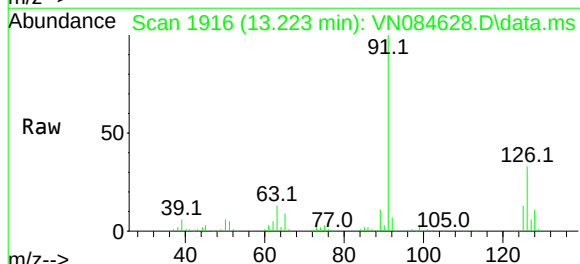
Concen: 46.096 ug/l

RT: 13.223 min Scan# 1916

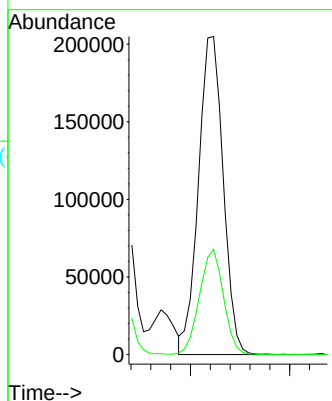
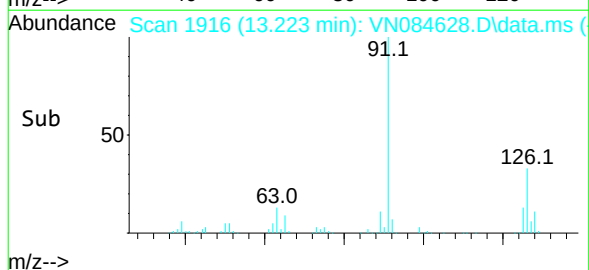
Delta R.T. 0.006 min

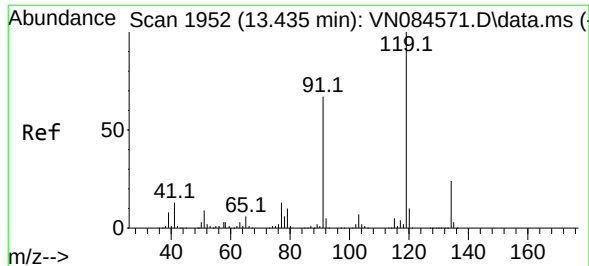
Lab File: VN084628.D

Acq: 01 Nov 2024 10:22



Tgt Ion:	91	Resp:	354928
Ion	Ratio	Lower	Upper
91	100		
126	32.1	15.7	47.1





#83

tert-Butylbenzene

Concen: 51.939 ug/l

RT: 13.441 min Scan# 1952

Delta R.T. 0.006 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:119 Resp: 340435

Ion Ratio Lower Upper

119 100

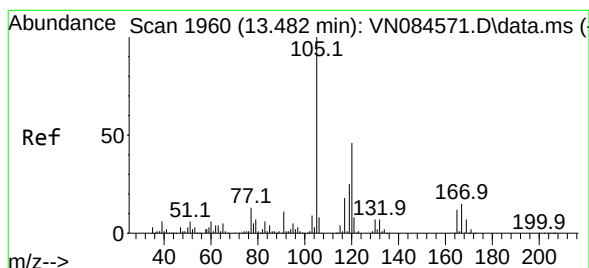
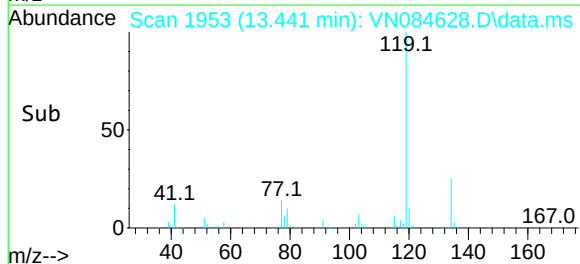
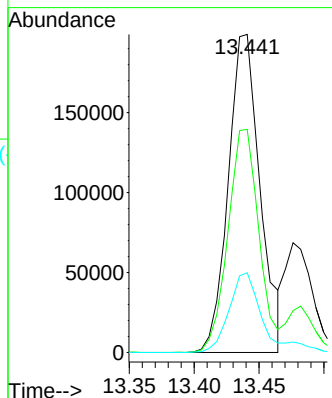
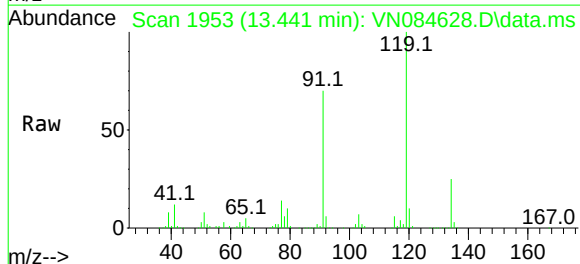
91 68.2 34.1 102.3

134 26.5 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#84

1,2,4-Trimethylbenzene

Concen: 51.171 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN084628.D

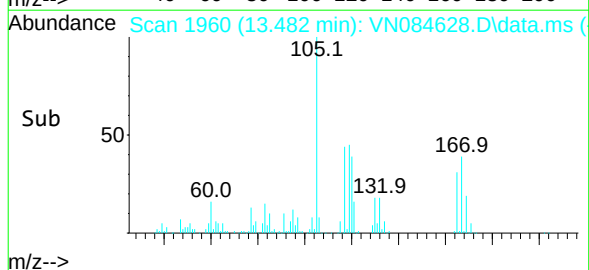
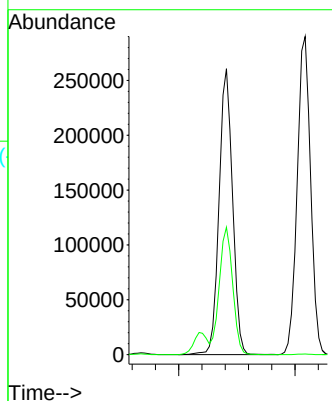
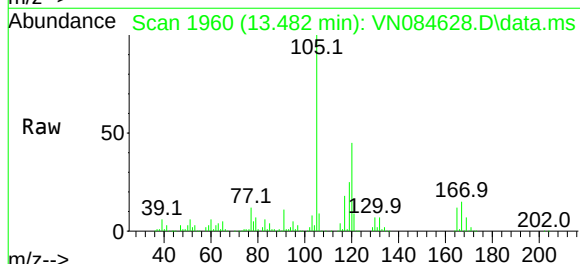
Acq: 01 Nov 2024 10:22

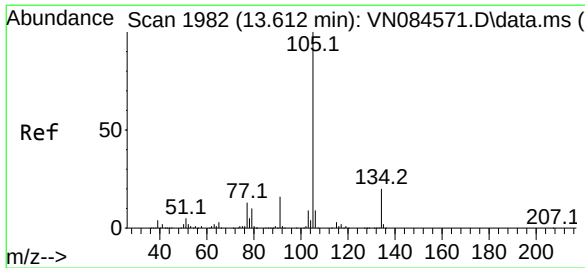
Tgt Ion:105 Resp: 418264

Ion Ratio Lower Upper

105 100

120 44.4 22.3 66.8





#85

sec-Butylbenzene

Concen: 49.984 ug/l

RT: 13.617 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:105 Resp: 462789

Ion Ratio Lower Upper

105 100

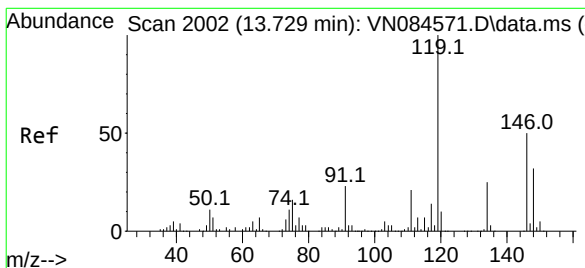
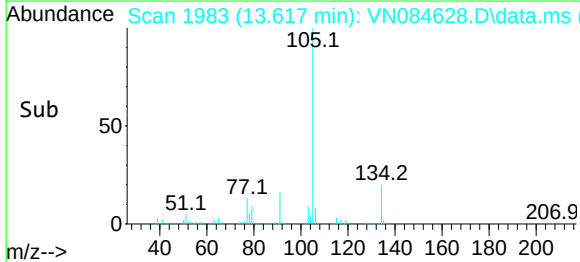
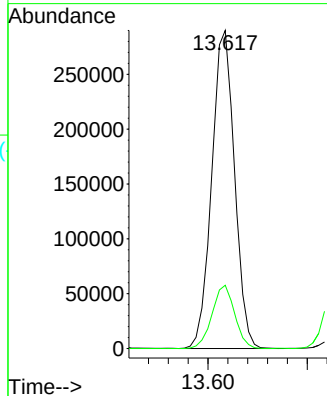
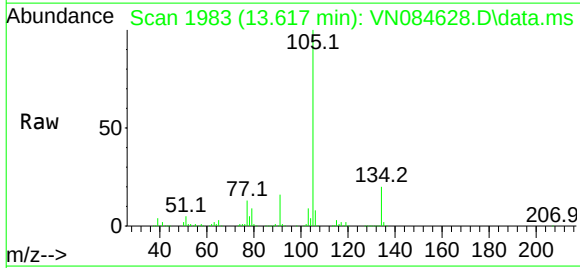
134 19.7 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024



#86

p-Isopropyltoluene

Concen: 52.012 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

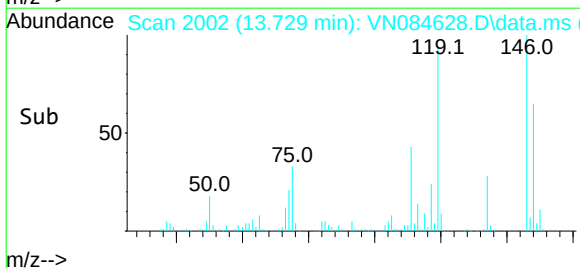
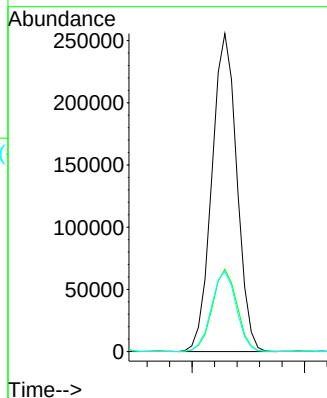
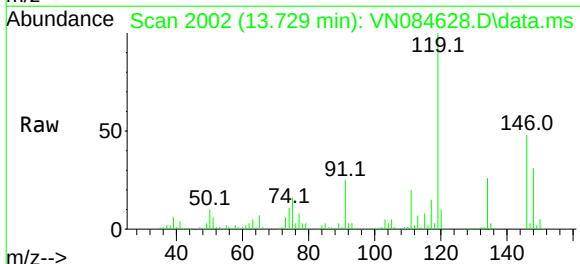
Tgt Ion:119 Resp: 394941

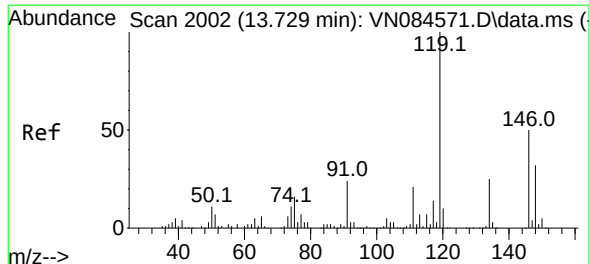
Ion Ratio Lower Upper

119 100

134 25.5 12.6 37.8

91 25.2 12.4 37.2





#87

1,3-Dichlorobenzene

Concen: 43.977 ug/l

RT: 13.735 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

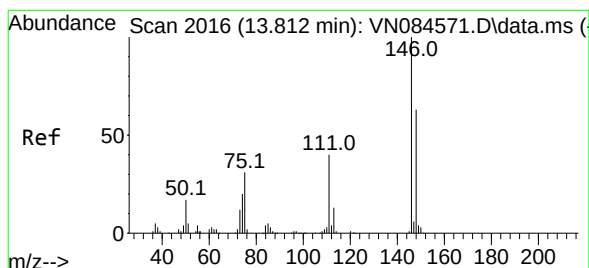
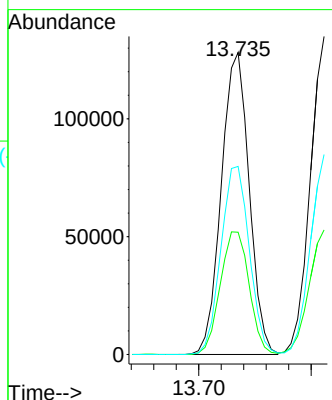
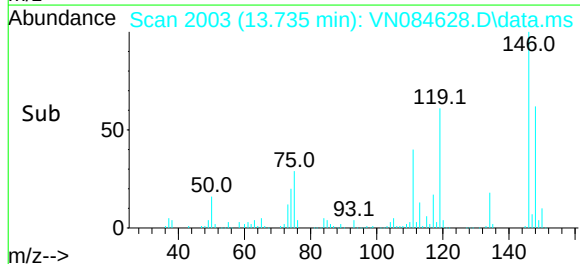
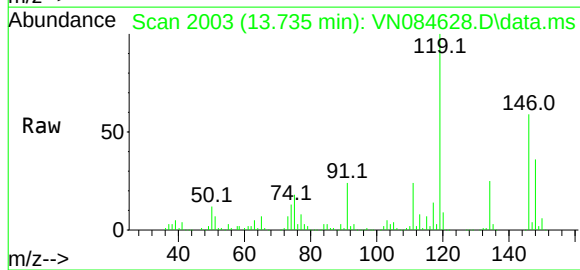
ClientSampleId :

VSTDCCC050

Tgt Ion:	146	Resp:	220467
Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.8	65.3
148	63.8	31.9	95.7

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#88

1,4-Dichlorobenzene

Concen: 48.021 ug/l

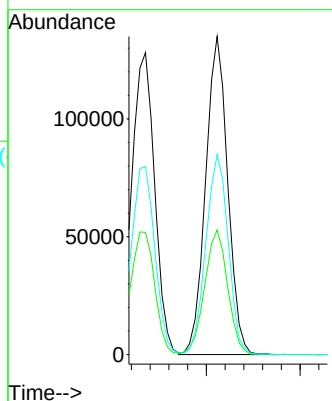
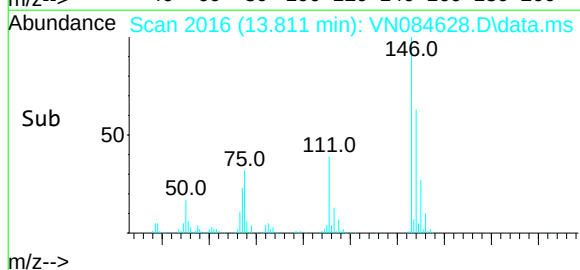
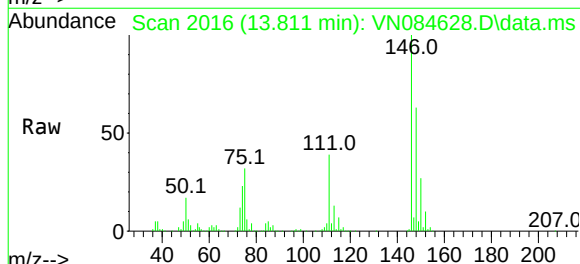
RT: 13.811 min Scan# 2016

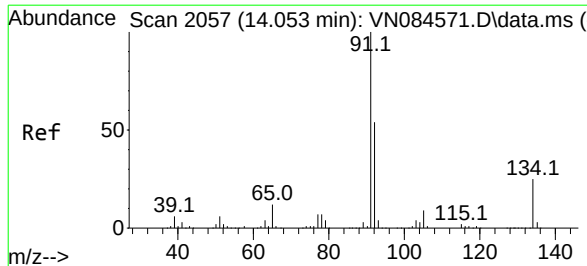
Delta R.T. -0.001 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Tgt Ion:	146	Resp:	221013
Ion	Ratio	Lower	Upper
146	100		
111	40.9	21.2	63.6
148	63.5	31.9	95.9





#89

n-Butylbenzene

Concen: 46.517 ug/l

RT: 14.059 min Scan# 2057

Delta R.T. 0.006 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 330406

Ion Ratio Lower Upper

91 100

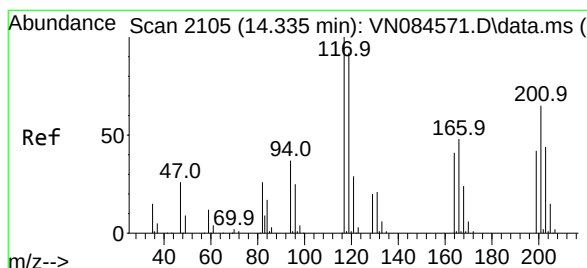
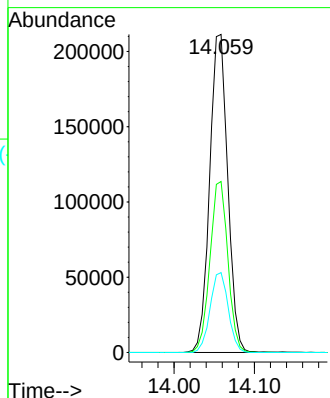
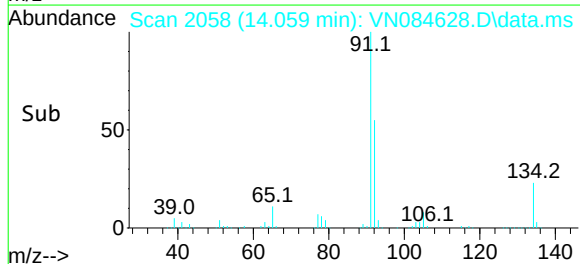
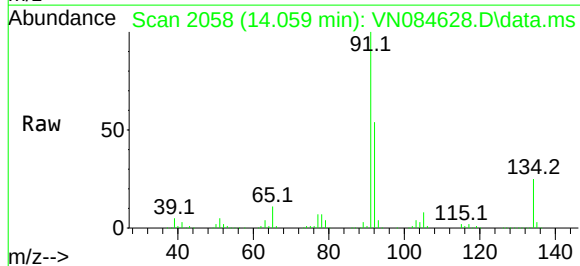
92 53.3 26.6 79.7

134 25.2 12.3 36.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
 Supervised By :Semsettin Yesilyurt 11/04/2024



#90

Hexachloroethane

Concen: 45.835 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. 0.006 min

Lab File: VN084628.D

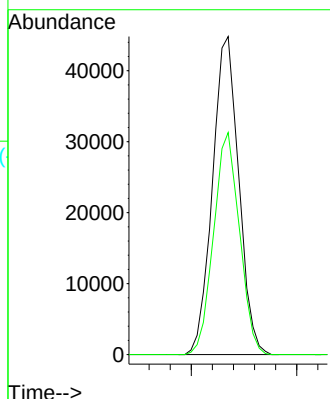
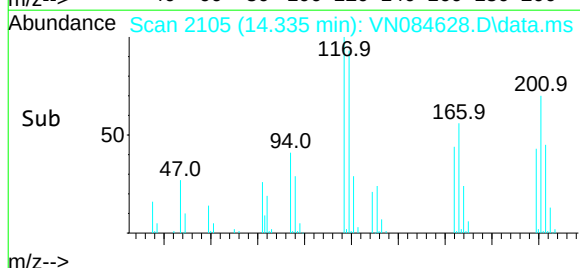
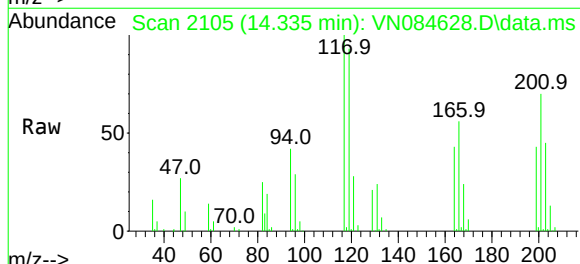
Acq: 01 Nov 2024 10:22

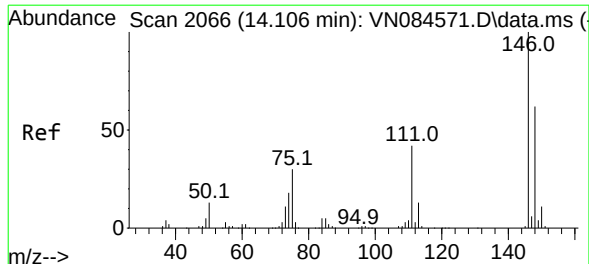
Tgt Ion:117 Resp: 77615

Ion Ratio Lower Upper

117 100

201 68.6 34.4 103.2





#91

1,2-Dichlorobenzene

Concen: 45.845 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:146 Resp: 220854

Ion Ratio Lower Upper

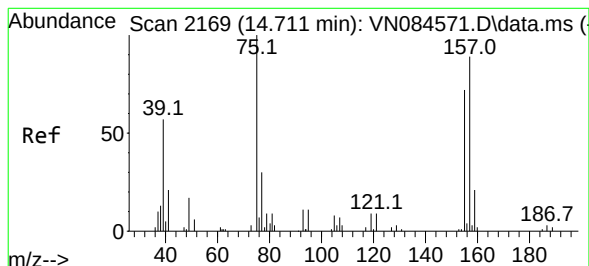
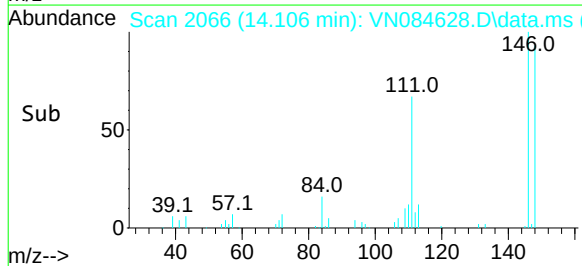
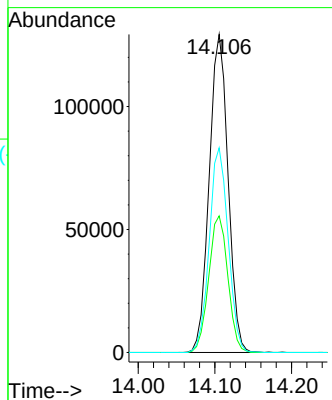
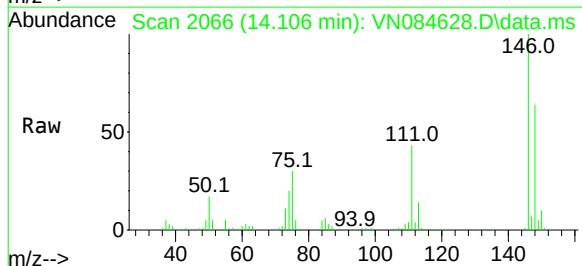
146 100

111 43.6 22.0 66.0

148 64.5 32.1 96.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#92

1,2-Dibromo-3-Chloropropane

Concen: 44.085 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.000 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

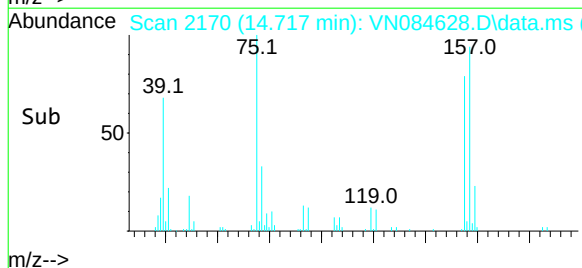
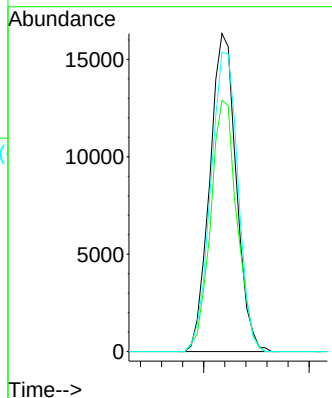
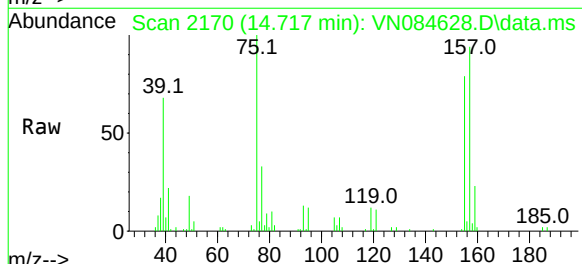
Tgt Ion: 75 Resp: 28485

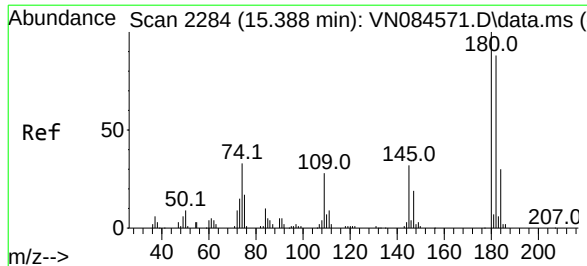
Ion Ratio Lower Upper

75 100

155 78.7 38.1 114.5

157 96.7 49.6 149.0





#93

1,2,4-Trichlorobenzene

Concen: 41.167 ug/l

RT: 15.394 min Scan# 2284

Delta R.T. 0.006 min

Lab File: VN084628.D

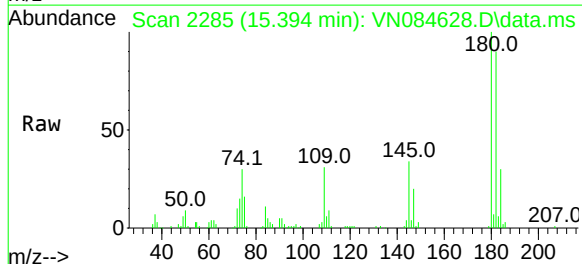
Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

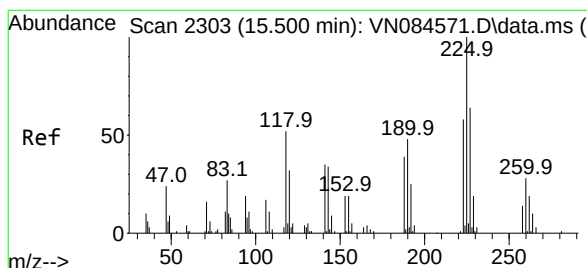
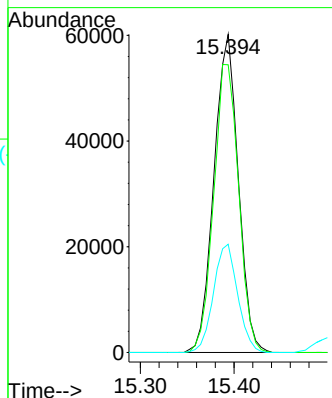
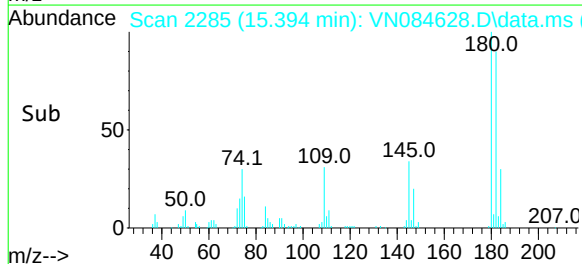
VSTDCCC050



Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.0	47.0	141.0
145	33.9	16.4	49.4

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Supervised By :Semsettin Yesilyurt 11/04/2024



#94

Hexachlorobutadiene

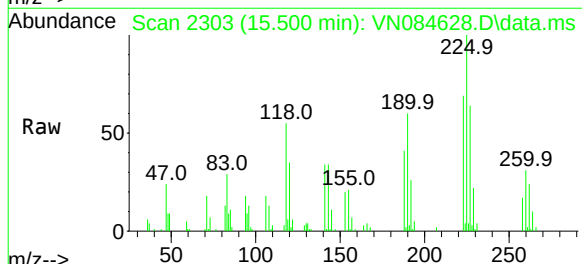
Concen: 40.091 ug/l

RT: 15.500 min Scan# 2303

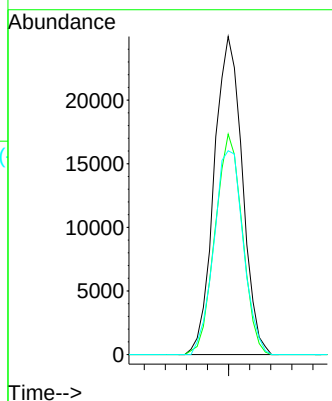
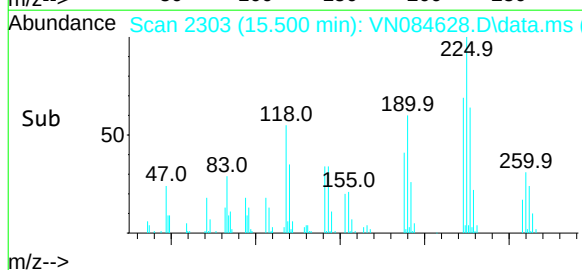
Delta R.T. -0.000 min

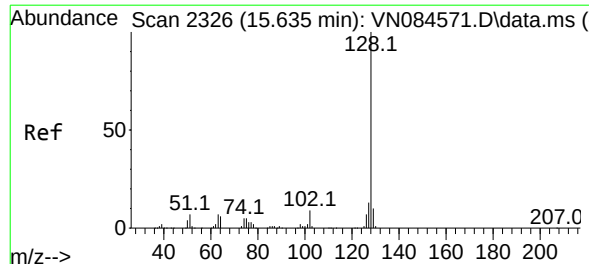
Lab File: VN084628.D

Acq: 01 Nov 2024 10:22



Tgt Ion	Ratio	Lower	Upper
225	100		
223	66.9	32.4	97.2
227	67.0	32.4	97.0





#95

Naphthalene

Concen: 44.063 ug/l

RT: 15.641 min Scan# 2326

Delta R.T. 0.006 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:128 Resp: 347756

Ion Ratio Lower Upper

128 100

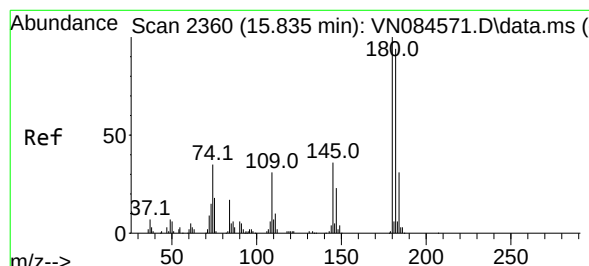
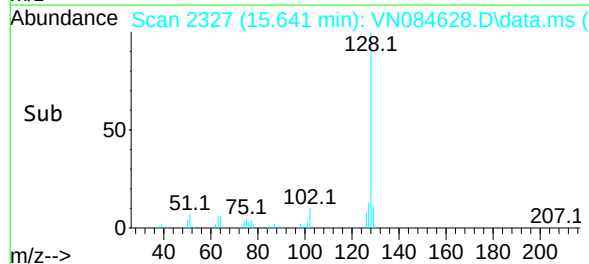
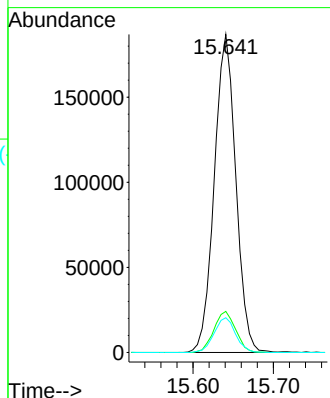
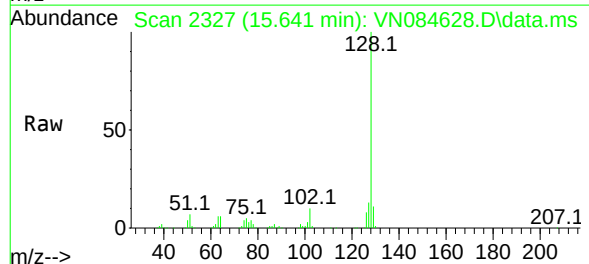
127 13.1 10.5 15.7

129 10.9 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#96

1,2,3-Trichlorobenzene

Concen: 41.757 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN084628.D

Acq: 01 Nov 2024 10:22

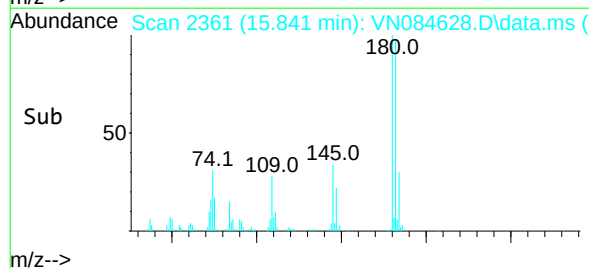
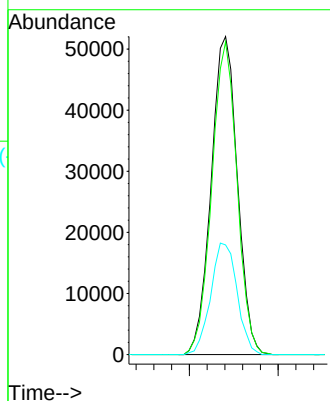
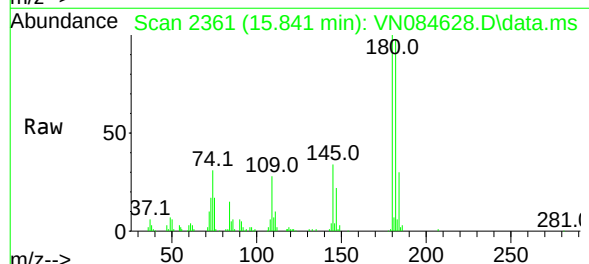
Tgt Ion:180 Resp: 106880

Ion Ratio Lower Upper

180 100

182 94.5 48.2 144.6

145 35.3 17.3 51.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
 Data File : VN084628.D
 Acq On : 01 Nov 2024 10:22
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 04 04:22:04 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	99	0.00
2 T	Dichlorodifluoromethane	0.575	0.538	6.4	96	0.00
3 P	Chloromethane	0.952	0.582	38.9#	86	0.00
4 C	Vinyl Chloride	0.618	0.566	8.4#	92	0.00
5 T	Bromomethane	0.328	0.288	12.2	96	-0.05
6 T	Chloroethane	0.488	0.364	25.4#	95	-0.05
7 T	Trichlorofluoromethane	1.018	0.944	7.3	97	-0.03
8 T	Diethyl Ether	0.359	0.340	5.3	95	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.575	0.549	4.5	97	-0.01
10 T	Methyl Iodide	0.769	0.706	8.2	95	-0.02
11 T	Tert butyl alcohol	0.095	0.080	15.8	91	0.01
12 CM	1,1-Dichloroethene	0.569	0.502	11.8#	92	-0.02
13 T	Acrolein	0.095	0.101	-6.3	114	0.00
14 T	Allyl chloride	0.923	0.865	6.3	93	-0.01
15 T	Acrylonitrile	0.276	0.266	3.6	97	0.00
16 T	Acetone	0.238	0.204	14.3	99	0.00
17 T	Carbon Disulfide	1.753	1.480	15.6	91	-0.01
18 T	Methyl Acetate	1.172	0.691	41.0#	91	0.00
19 T	Methyl tert-butyl Ether	1.745	1.720	1.4	97	0.00
20 T	Methylene Chloride	0.635	0.598	5.8	98	-0.01
21 T	trans-1,2-Dichloroethene	0.585	0.542	7.4	95	-0.01
22 T	Diisopropyl ether	1.835	1.818	0.9	97	0.00
23 T	Vinyl Acetate	1.265	1.267	-0.2	96	0.00
24 P	1,1-Dichloroethane	1.102	1.047	5.0	97	0.00
25 T	2-Butanone	0.337	0.326	3.3	102	0.00
26 T	2,2-Dichloropropane	0.959	0.929	3.1	97	0.00
27 T	cis-1,2-Dichloroethene	0.683	0.652	4.5	97	0.00
28 T	Bromochloromethane	0.439	0.492	-12.1	95	0.00
29 T	Tetrahydrofuran	0.224	0.221	1.3	98	0.00
30 C	Chloroform	1.121	1.078	3.8#	98	0.00
31 T	Cyclohexane	0.997	0.878	11.9	92	0.00
32 T	1,1,1-Trichloroethane	1.021	0.967	5.3	96	0.00
33 S	1,2-Dichloroethane-d4	0.722	0.644	10.8	88	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.00
35 S	Dibromofluoromethane	0.338	0.325	3.8	91	0.00
36 T	1,1-Dichloropropene	0.469	0.450	4.1	96	0.00
37 T	Ethyl Acetate	0.426	0.430	-0.9	98	0.00
38 T	Carbon Tetrachloride	0.525	0.514	2.1	96	0.00
39 T	Methylcyclohexane	0.478	0.490	-2.5	93	0.00
40 TM	Benzene	1.507	1.457	3.3	97	0.00
41 T	Methacrylonitrile	0.229	0.246	-7.4	96	0.00
42 TM	1,2-Dichloroethane	0.488	0.484	0.8	94	0.00
43 T	Isopropyl Acetate	0.927	0.730	21.3	93	0.00
44 TM	Trichloroethene	0.348	0.325	6.6	93	0.00
45 C	1,2-Dichloropropane	0.354	0.356	-0.6#	98	0.00
46 T	Dibromomethane	0.250	0.251	-0.4	99	0.00
47 T	Bromodichloromethane	0.526	0.522	0.8	96	0.00
48 T	Methyl methacrylate	0.331	0.352	-6.3	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
 Data File : VN084628.D
 Acq On : 01 Nov 2024 10:22
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 04 04:22:04 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 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	100	0.00
50 S	Toluene-d8	1.247	1.185	5.0	87	0.00
51 T	4-Methyl-2-Pentanone	0.406	0.430	-5.9	98	0.00
52 CM	Toluene	0.882	0.905	-2.6#	97	0.00
53 T	t-1,3-Dichloropropene	0.544	0.517	5.0	91	0.00
54 T	cis-1,3-Dichloropropene	0.576	0.566	1.7	94	0.00
55 T	1,1,2-Trichloroethane	0.332	0.331	0.3	97	0.00
56 T	Ethyl methacrylate	0.480	0.526	-9.6	94	0.00
57 T	1,3-Dichloropropane	0.570	0.574	-0.7	98	0.00
58 T	2-Chloroethyl Vinyl ether	0.225	0.264	-17.3	97	0.00
59 T	2-Hexanone	0.296	0.316	-6.8	98	0.00
60 T	Dibromochloromethane	0.378	0.401	-6.1	98	0.00
61 T	1,2-Dibromoethane	0.340	0.338	0.6	97	0.00
62 S	4-Bromofluorobenzene	0.466	0.451	3.2	88	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64 T	Tetrachloroethene	0.333	0.327	1.8	102	0.00
65 PM	Chlorobenzene	1.119	1.038	7.2	95	0.00
66 T	1,1,1,2-Tetrachloroethane	0.389	0.376	3.3	97	0.00
67 C	Ethyl Benzene	1.867	1.850	0.9#	95	0.00
68 T	m/p-Xylenes	0.707	0.721	-2.0	96	0.00
69 T	o-Xylene	0.661	0.681	-3.0	96	0.00
70 T	Styrene	1.154	1.181	-2.3	95	0.00
71 P	Bromoform	0.293	0.294	-0.3	97	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00
73 T	Isopropylbenzene	3.504	3.470	1.0	96	0.00
74 T	N-amyl acetate	1.491	1.455	2.4	94	0.00
75 P	1,1,2,2-Tetrachloroethane	1.170	1.079	7.8	99	0.00
76 T	1,2,3-Trichloropropane	0.999	0.885	11.4	98	0.00
77 T	Bromobenzene	0.942	0.874	7.2	98	0.00
78 T	n-propylbenzene	4.106	4.064	1.0	95	0.00
79 T	2-Chlorotoluene	2.683	2.587	3.6	97	0.00
80 T	1,3,5-Trimethylbenzene	2.904	2.955	-1.8	95	0.00
81 T	trans-1,4-Dichloro-2-butene	0.421	0.383	9.0	94	0.00
82 T	4-Chlorotoluene	2.823	2.603	7.8	94	0.00
83 T	tert-Butylbenzene	2.403	2.497	-3.9	97	0.00
84 T	1,2,4-Trimethylbenzene	2.997	3.067	-2.3	96	0.00
85 T	sec-Butylbenzene	3.395	3.394	0.0	95	0.00
86 T	p-Isopropyltoluene	2.784	2.896	-4.0	94	0.00
87 T	1,3-Dichlorobenzene	1.838	1.617	12.0	96	0.00
88 T	1,4-Dichlorobenzene	1.937	1.621	16.3	95	0.00
89 T	n-Butylbenzene	2.605	2.423	7.0	91	0.00
90 T	Hexachloroethane	0.621	0.569	8.4	95	0.00
91 T	1,2-Dichlorobenzene	1.766	1.620	8.3	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.237	0.209	11.8	95	0.00
93 T	1,2,4-Trichlorobenzene	0.967	0.796	17.7	91	0.00
94 T	Hexachlorobutadiene	0.425	0.340	20.0	91	0.00
95 T	Naphthalene	2.894	2.550	11.9	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084628.D
Acq On : 01 Nov 2024 10:22
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 04 04:22:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
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	0.939	0.784	16.5	92	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
 Data File : VN084628.D
 Acq On : 01 Nov 2024 10:22
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 04 04:22:04 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	99	0.00
2 T	Dichlorodifluoromethane	50.000	46.826	6.3	96	0.00
3 P	Chloromethane	50.000	42.778	14.4	86	0.00
4 C	Vinyl Chloride	50.000	45.789	8.4#	92	0.00
5 T	Bromomethane	50.000	44.031	11.9	96	-0.05
6 T	Chloroethane	50.000	47.426	5.1	95	-0.05
7 T	Trichlorofluoromethane	50.000	46.369	7.3	97	-0.03
8 T	Diethyl Ether	50.000	47.349	5.3	95	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	47.675	4.7	97	-0.01
10 T	Methyl Iodide	50.000	45.919	8.2	95	-0.02
11 T	Tert butyl alcohol	250.000	209.166	16.3	91	0.01
12 CM	1,1-Dichloroethene	50.000	44.115	11.8#	92	-0.02
13 T	Acrolein	250.000	266.751	-6.7	114	0.00
14 T	Allyl chloride	50.000	46.819	6.4	93	-0.01
15 T	Acrylonitrile	250.000	241.071	3.6	97	0.00
16 T	Acetone	250.000	244.929	2.0	99	0.00
17 T	Carbon Disulfide	50.000	42.191	15.6	91	-0.01
18 T	Methyl Acetate	50.000	44.902	10.2	91	0.00
19 T	Methyl tert-butyl Ether	50.000	49.289	1.4	97	0.00
20 T	Methylene Chloride	50.000	47.096	5.8	98	-0.01
21 T	trans-1,2-Dichloroethene	50.000	46.339	7.3	95	-0.01
22 T	Diisopropyl ether	50.000	49.533	0.9	97	0.00
23 T	Vinyl Acetate	250.000	250.398	-0.2	96	0.00
24 P	1,1-Dichloroethane	50.000	47.516	5.0	97	0.00
25 T	2-Butanone	250.000	241.790	3.3	102	0.00
26 T	2,2-Dichloropropane	50.000	48.449	3.1	97	0.00
27 T	cis-1,2-Dichloroethene	50.000	47.758	4.5	97	0.00
28 T	Bromochloromethane	50.000	56.020	-12.0	95	0.00
29 T	Tetrahydrofuran	250.000	247.530	1.0	98	0.00
30 C	Chloroform	50.000	48.069	3.9#	98	0.00
31 T	Cyclohexane	50.000	44.014	12.0	92	0.00
32 T	1,1,1-Trichloroethane	50.000	47.362	5.3	96	0.00
33 S	1,2-Dichloroethane-d4	50.000	44.583	10.8	88	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	96	0.00
35 S	Dibromofluoromethane	50.000	47.992	4.0	91	0.00
36 T	1,1-Dichloropropene	50.000	47.960	4.1	96	0.00
37 T	Ethyl Acetate	50.000	50.445	-0.9	98	0.00
38 T	Carbon Tetrachloride	50.000	48.951	2.1	96	0.00
39 T	Methylcyclohexane	50.000	51.312	-2.6	93	0.00
40 TM	Benzene	50.000	48.319	3.4	97	0.00
41 T	Methacrylonitrile	50.000	53.631	-7.3	96	0.00
42 TM	1,2-Dichloroethane	50.000	49.594	0.8	94	0.00
43 T	Isopropyl Acetate	50.000	46.323	7.4	93	0.00
44 TM	Trichloroethene	50.000	46.787	6.4	93	0.00
45 C	1,2-Dichloropropane	50.000	50.327	-0.7#	98	0.00
46 T	Dibromomethane	50.000	50.221	-0.4	99	0.00
47 T	Bromodichloromethane	50.000	49.601	0.8	96	0.00
48 T	Methyl methacrylate	50.000	53.047	-6.1	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
 Data File : VN084628.D
 Acq On : 01 Nov 2024 10:22
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 04 04:22:04 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 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	1072.921	-7.3	100	0.00
50 S	Toluene-d8	50.000	47.545	4.9	87	0.00
51 T	4-Methyl-2-Pentanone	250.000	264.740	-5.9	98	0.00
52 CM	Toluene	50.000	51.353	-2.7#	97	0.00
53 T	t-1,3-Dichloropropene	50.000	47.438	5.1	91	0.00
54 T	cis-1,3-Dichloropropene	50.000	49.152	1.7	94	0.00
55 T	1,1,2-Trichloroethane	50.000	49.815	0.4	97	0.00
56 T	Ethyl methacrylate	50.000	54.790	-9.6	94	0.00
57 T	1,3-Dichloropropane	50.000	50.388	-0.8	98	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	293.256	-17.3	97	0.00
59 T	2-Hexanone	250.000	267.380	-7.0	98	0.00
60 T	Dibromochloromethane	50.000	52.956	-5.9	98	0.00
61 T	1,2-Dibromoethane	50.000	49.699	0.6	97	0.00
62 S	4-Bromofluorobenzene	50.000	48.418	3.2	88	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	97	0.00
64 T	Tetrachloroethene	50.000	49.207	1.6	102	0.00
65 PM	Chlorobenzene	50.000	46.410	7.2	95	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	48.299	3.4	97	0.00
67 C	Ethyl Benzene	50.000	49.531	0.9#	95	0.00
68 T	m/p-Xylenes	100.000	101.948	-1.9	96	0.00
69 T	o-Xylene	50.000	51.466	-2.9	96	0.00
70 T	Styrene	50.000	51.179	-2.4	95	0.00
71 P	Bromoform	50.000	50.263	-0.5	97	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	99	0.00
73 T	Isopropylbenzene	50.000	49.514	1.0	96	0.00
74 T	N-amyl acetate	50.000	48.799	2.4	94	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	46.136	7.7	99	0.00
76 T	1,2,3-Trichloropropane	50.000	44.254	11.5	98	0.00
77 T	Bromobenzene	50.000	46.399	7.2	98	0.00
78 T	n-propylbenzene	50.000	49.493	1.0	95	0.00
79 T	2-Chlorotoluene	50.000	48.213	3.6	97	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.871	-1.7	95	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	45.512	9.0	94	0.00
82 T	4-Chlorotoluene	50.000	46.096	7.8	94	0.00
83 T	tert-Butylbenzene	50.000	51.939	-3.9	97	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.171	-2.3	96	0.00
85 T	sec-Butylbenzene	50.000	49.984	0.0	95	0.00
86 T	p-Isopropyltoluene	50.000	52.012	-4.0	94	0.00
87 T	1,3-Dichlorobenzene	50.000	43.977	12.0	96	0.00
88 T	1,4-Dichlorobenzene	50.000	48.021	4.0	95	0.00
89 T	n-Butylbenzene	50.000	46.517	7.0	91	0.00
90 T	Hexachloroethane	50.000	45.835	8.3	95	0.00
91 T	1,2-Dichlorobenzene	50.000	45.845	8.3	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	44.085	11.8	95	0.00
93 T	1,2,4-Trichlorobenzene	50.000	41.167	17.7	91	0.00
94 T	Hexachlorobutadiene	50.000	40.091	19.8	91	0.00
95 T	Naphthalene	50.000	44.063	11.9	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084628.D
Acq On : 01 Nov 2024 10:22
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 04 04:22:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
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	41.757	16.5	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4665 SAS No.: P4665 SDG No.: P4665

Instrument ID: MSVOA_N Calibration Date/Time: 11/01/2024 17:07

Lab File ID: VN084643.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:46 13:45

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.952	0.561	0.1	-41.07	50
Vinyl Chloride	0.618	0.546		-11.65	50
Bromomethane	0.328	0.284		-13.41	50
Chloroethane	0.488	0.367		-24.8	50
Trichlorofluoromethane	1.018	0.913		-10.31	50
1,1,2-Trichlorotrifluoroethane	0.575	0.529		-8	50
1,1-Dichloroethene	0.569	0.500		-12.13	50
Acetone	0.238	0.247		3.78	50
Carbon Disulfide	1.753	1.430		-18.43	50
Methyl tert-butyl Ether	1.745	1.731		-0.8	50
Methylene Chloride	0.635	0.579		-8.82	50
trans-1,2-Dichloroethene	0.585	0.534		-8.72	50
1,1-Dichloroethane	1.102	1.038	0.1	-5.81	50
2-Butanone	0.337	0.364		8.01	50
Carbon Tetrachloride	0.525	0.494		-5.91	50
cis-1,2-Dichloroethene	0.683	0.637		-6.74	50
Chloroform	1.121	1.072		-4.37	50
1,1,1-Trichloroethane	1.021	0.952		-6.76	50
Methylcyclohexane	0.478	0.469		-1.88	50
Benzene	1.507	1.406		-6.7	50
1,2-Dichloroethane	0.488	0.463		-5.12	50
Trichloroethene	0.348	0.312		-10.35	50
1,2-Dichloropropane	0.354	0.338		-4.52	50
Bromodichloromethane	0.526	0.504		-4.18	50
4-Methyl-2-Pentanone	0.406	0.443		9.11	50
Toluene	0.882	0.867		-1.7	50
t-1,3-Dichloropropene	0.544	0.504		-7.35	50
cis-1,3-Dichloropropene	0.576	0.541		-6.08	50
1,1,2-Trichloroethane	0.332	0.328		-1.21	50
2-Hexanone	0.296	0.332		12.16	50
Dibromochloromethane	0.378	0.383		1.32	50
Tetrachloroethene	0.333	0.300		-9.91	50
Chlorobenzene	1.119	0.998	0.3	-10.81	50
Ethyl Benzene	1.867	1.760		-5.73	50
m/p-Xylenes	0.707	0.681		-3.68	50
o-Xylene	0.661	0.650		-1.66	50
Styrene	1.154	1.140		-1.21	50
Bromoform	0.293	0.285	0.1	-2.73	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.: P4665 SAS No.: P4665 SDG No.: P4665

Instrument ID: MSVOA_N Calibration Date/Time: 11/01/2024 17:07

Lab File ID: VN084643.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:46 13:45

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.504	3.160		-9.82	50
1,1,2,2-Tetrachloroethane	1.170	1.019	0.3	-12.91	50
1,3-Dichlorobenzene	1.838	1.473		-19.86	50
1,4-Dichlorobenzene	1.937	1.473		-23.95	50
1,2-Dichlorobenzene	1.766	1.464		-17.1	50
1,2-Dichloroethane-d4	0.722	0.639		-11.5	50
Dibromofluoromethane	0.338	0.309		-8.58	50
Toluene-d8	1.247	1.142		-8.42	50
4-Bromofluorobenzene	0.466	0.447		-4.08	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\VN110124\
 Data File : VN084643.D
 Acq On : 01 Nov 2024 17:07
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
 Supervised By :Semsettin Yesilyurt 11/04/2024

Quant Time: Nov 04 04:30:30 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	186183	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	313120	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	289884	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	150905	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	118895	44.214	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	88.420%
35) Dibromofluoromethane	8.165	113	96716	45.633	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	91.260%
50) Toluene-d8	10.565	98	357498	45.790	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	91.580%
62) 4-Bromofluorobenzene	12.847	95	140014	47.985	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	95.980%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	95657	44.693	ug/l	93
3) Chloromethane	2.359	50	104495	41.162	ug/l	99
4) Vinyl Chloride	2.512	62	101746	44.198	ug/l	100
5) Bromomethane	2.900	94	52808	43.296	ug/l	98
6) Chloroethane	3.065	64	68310	47.878	ug/l	97
7) Trichlorofluoromethane	3.465	101	170051	44.844	ug/l	98
8) Diethyl Ether	3.953	74	61010	45.608	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.353	101	98564	45.999	ug/l	99
10) Methyl Iodide	4.571	142	131479	45.911	ug/l	98
11) Tert butyl alcohol	5.542	59	81227	228.837	ug/l	99
12) 1,1-Dichloroethene	4.318	96	93026	43.875	ug/l	98
13) Acrolein	4.177	56	98304	277.733	ug/l	98
14) Allyl chloride	5.006	41	162243	47.184	ug/l	92
15) Acrylonitrile	5.718	53	258166	251.237	ug/l	98
16) Acetone	4.424	43	229540	296.026	ug/l	98
17) Carbon Disulfide	4.700	76	266246	40.777	ug/l	98
18) Methyl Acetate	5.024	43	129461	45.245	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	322267	49.590	ug/l	97
20) Methylene Chloride	5.265	84	107863	45.606	ug/l	91
21) trans-1,2-Dichloroethene	5.777	96	99460	45.684	ug/l	99
22) Diisopropyl ether	6.665	45	334111	48.902	ug/l	99
23) Vinyl Acetate	6.600	43	1203577	255.447	ug/l	97
24) 1,1-Dichloroethane	6.565	63	193202	47.100	ug/l	98
25) 2-Butanone	7.483	43	338602	269.898	ug/l	98
26) 2,2-Dichloropropane	7.483	77	167290	46.857	ug/l	98
27) cis-1,2-Dichloroethene	7.483	96	118651	46.674	ug/l	98
28) Bromochloromethane	7.812	49	98947	60.545	ug/l	93
29) Tetrahydrofuran	7.841	42	217423	261.234	ug/l	98
30) Chloroform	7.959	83	199633	47.816	ug/l	99
31) Cyclohexane	8.253	56	162246	43.702	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	177337	46.667	ug/l	97
36) 1,1-Dichloropropene	8.365	75	137852	46.898	ug/l	98
37) Ethyl Acetate	7.559	43	133895	50.206	ug/l	99
38) Carbon Tetrachloride	8.359	117	154823	47.123	ug/l	95
39) Methylcyclohexane	9.600	83	146850	49.108	ug/l	98
40) Benzene	8.606	78	440337	46.647	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
 Data File : VN084643.D
 Acq On : 01 Nov 2024 17:07
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
 Supervised By :Semsettin Yesilyurt 11/04/2024

Quant Time: Nov 04 04:30:30 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	76770	53.530	ug/l	99
42) 1,2-Dichloroethane	8.671	62	145115	47.467	ug/l	98
43) Isopropyl Acetate	8.688	43	236927	48.051	ug/l	98
44) Trichloroethene	9.353	130	97778	44.913	ug/l	96
45) 1,2-Dichloropropane	9.618	63	105940	47.842	ug/l	96
46) Dibromomethane	9.706	93	74499	47.678	ug/l	97
47) Bromodichloromethane	9.888	83	157714	47.883	ug/l	96
48) Methyl methacrylate	9.677	41	108363	52.208	ug/l	98
49) 1,4-Dioxane	9.700	88	41066	1116.514	ug/l	97
51) 4-Methyl-2-Pentanone	10.447	43	692985	272.575	ug/l	99
52) Toluene	10.629	92	271534	49.183	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	157718	46.260	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	169499	46.972	ug/l	97
55) 1,1,2-Trichloroethane	11.018	97	102600	49.336	ug/l	96
56) Ethyl methacrylate	10.876	69	166069	55.207	ug/l	97
57) 1,3-Dichloropropane	11.165	76	173329	48.563	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	429197	304.914	ug/l	97
59) 2-Hexanone	11.194	43	519065	280.493	ug/l	98
60) Dibromochloromethane	11.359	129	119904	50.589	ug/l	99
61) 1,2-Dibromoethane	11.465	107	102199	47.989	ug/l	99
64) Tetrachloroethene	11.100	164	86839	45.036	ug/l	98
65) Chlorobenzene	11.888	112	289307	44.610	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.959	131	103534	45.897	ug/l	98
67) Ethyl Benzene	11.965	91	510156	47.126	ug/l	99
68) m/p-Xylenes	12.070	106	394978	96.376	ug/l	99
69) o-Xylene	12.400	106	188437	49.151	ug/l	99
70) Styrene	12.412	104	330384	49.400	ug/l	98
71) Bromoform	12.576	173	82751	48.752	ug/l #	98
73) Isopropylbenzene	12.694	105	476917	45.098	ug/l	99
74) N-ethyl acetate	12.494	43	211463	46.982	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	153793	43.570	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	143924m	47.712	ug/l	
77) Bromobenzene	12.976	156	118165	41.565	ug/l	96
78) n-propylbenzene	13.035	91	561871	45.341	ug/l	99
79) 2-Chlorotoluene	13.123	91	353652	43.676	ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	415331	47.386	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	55111	43.343	ug/l	99
82) 4-Chlorotoluene	13.223	91	358576	42.079	ug/l	99
83) tert-Butylbenzene	13.441	119	350343	48.297	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	423745	46.843	ug/l	99
85) sec-Butylbenzene	13.617	105	475480	46.404	ug/l	100
86) p-Isopropyltoluene	13.729	119	403030	47.960	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	222216	40.052	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	222214	43.485	ug/l	99
89) n-Butylbenzene	14.053	91	335644	42.698	ug/l	100
90) Hexachloroethane	14.329	117	76738	40.948	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	220867	41.428	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	30232	42.277	ug/l	100
93) 1,2,4-Trichlorobenzene	15.394	180	107448	36.821	ug/l	99
94) Hexachlorobutadiene	15.500	225	49579	38.689	ug/l	97
95) Naphthalene	15.641	128	354038	40.533	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	106474	37.587	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084643.D
Acq On : 01 Nov 2024 17:07
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

Quant Time: Nov 04 04:30:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

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

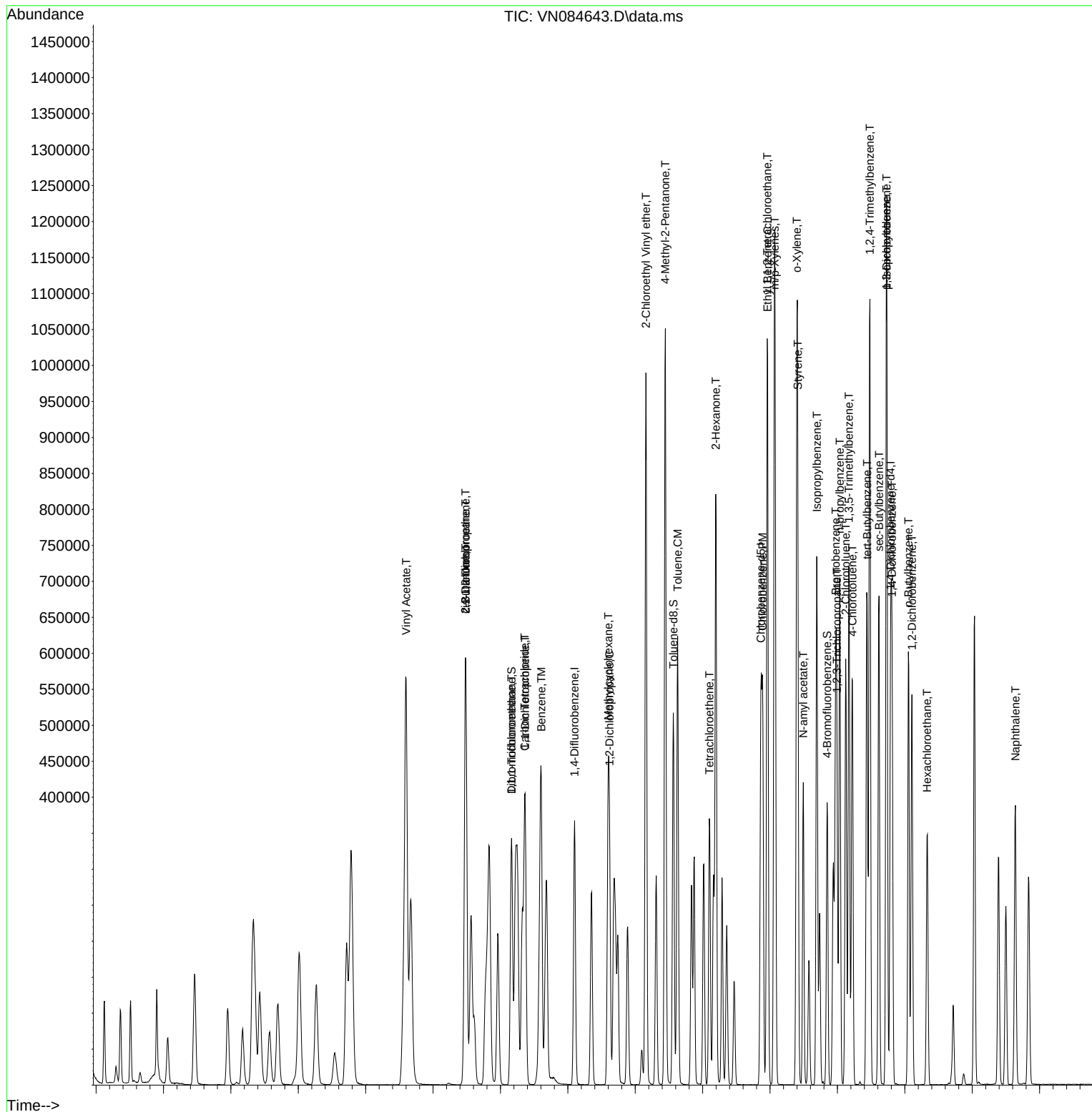
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084643.D
Acq On : 01 Nov 2024 17:07
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

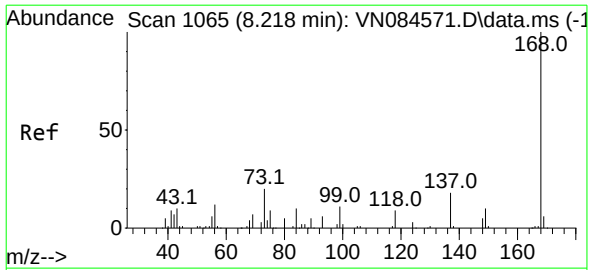
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

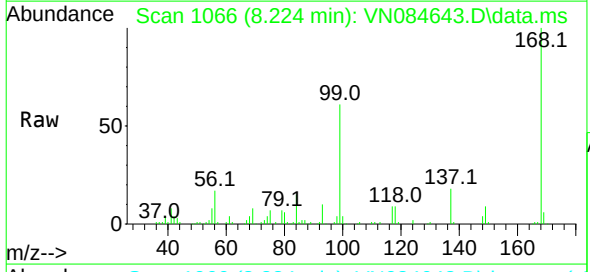
Quant Time: Nov 04 04:30:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

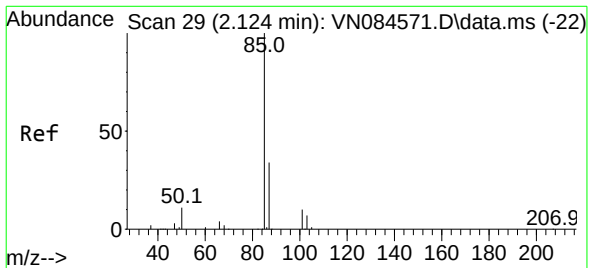
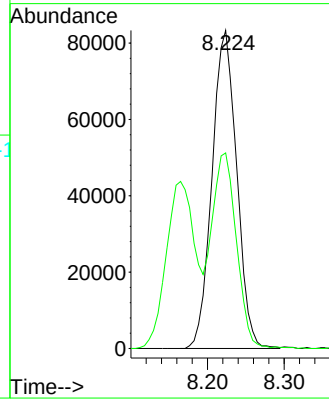
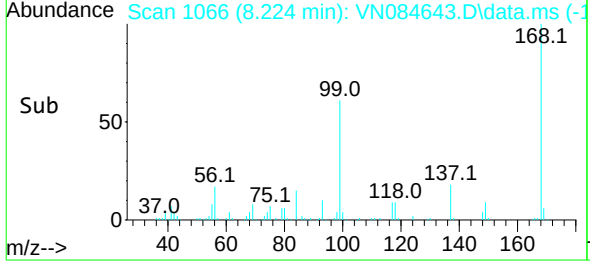
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 168 Resp: 186183
Ion Ratio Lower Upper
168 100
99 61.1 54.2 81.2

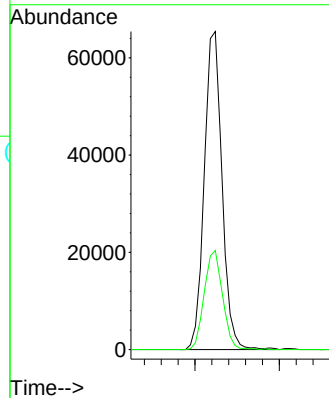
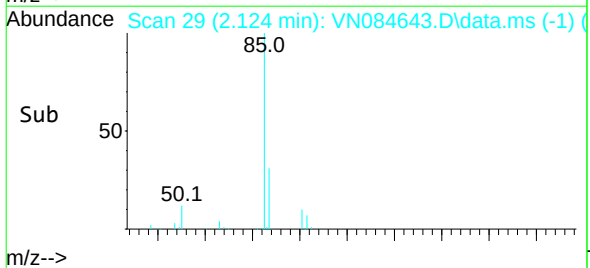
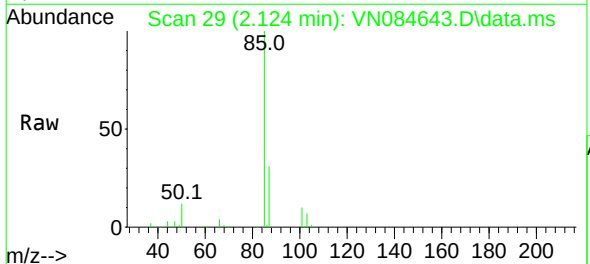
Manual Integrations
APPROVED

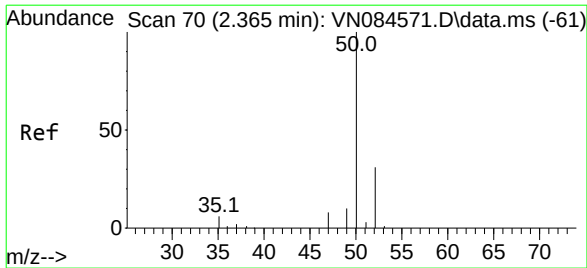
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#2
Dichlorodifluoromethane
Concen: 44.693 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

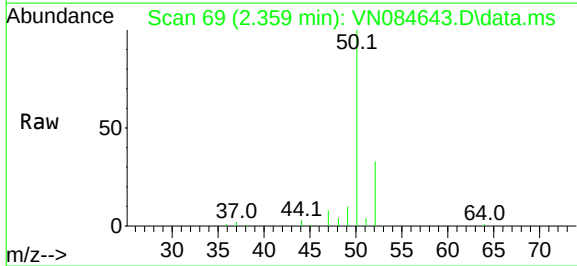
Tgt Ion: 85 Resp: 95657
Ion Ratio Lower Upper
85 100
87 31.2 17.6 52.9





#3
Chloromethane
Concen: 41.162 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

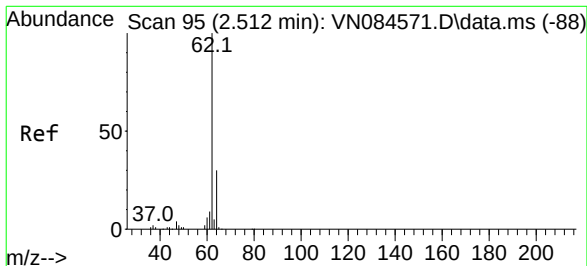
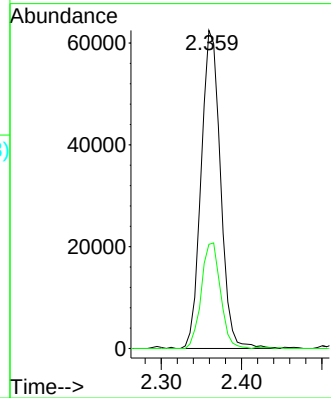
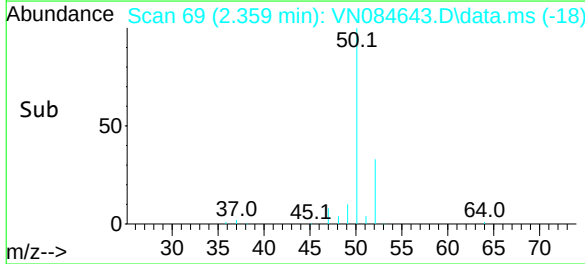
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 50 Resp: 104495
Ion Ratio Lower Upper
50 100
52 32.8 26.8 40.2

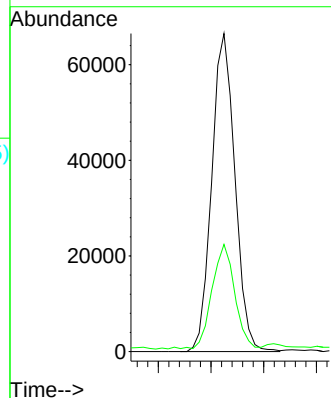
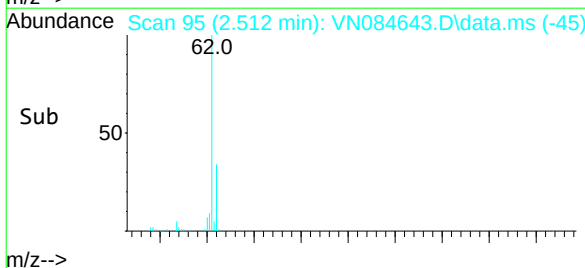
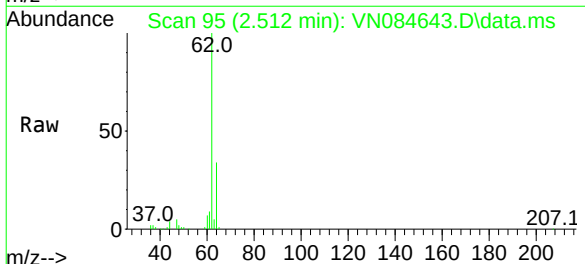
Manual Integrations
APPROVED

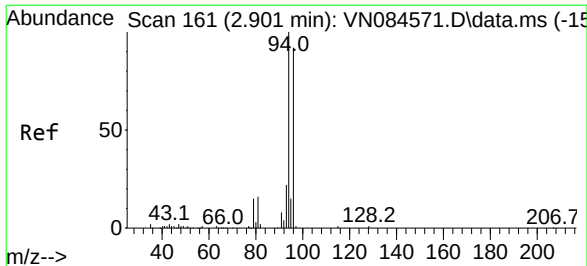
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#4
Vinyl Chloride
Concen: 44.198 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.006 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

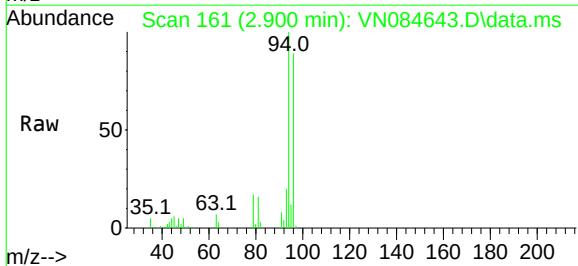
Tgt Ion: 62 Resp: 101746
Ion Ratio Lower Upper
62 100
64 32.8 26.2 39.4





#5
Bromomethane
Concen: 43.296 ug/l
RT: 2.900 min Scan# 161
Delta R.T. -0.053 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

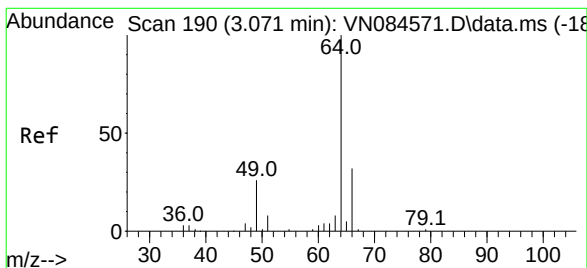
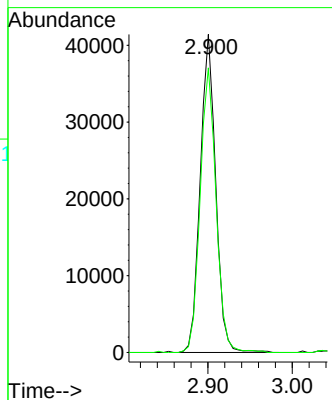
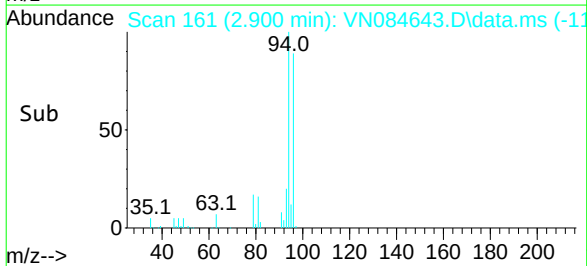
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 94 Resp: 52808
Ion Ratio Lower Upper
94 100
96 89.5 72.9 109.3

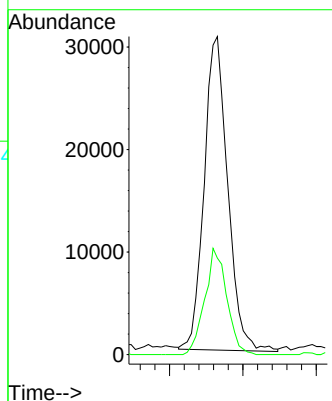
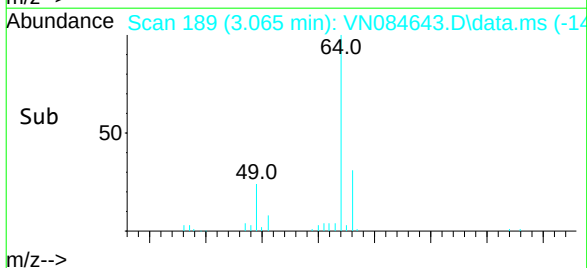
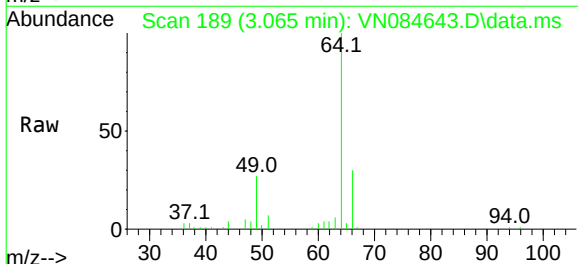
Manual Integrations
APPROVED

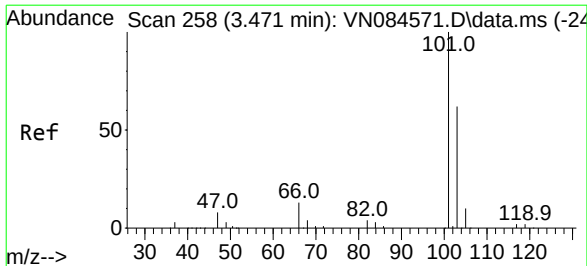
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#6
Chloroethane
Concen: 47.878 ug/l
RT: 3.065 min Scan# 189
Delta R.T. -0.053 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

Tgt Ion: 64 Resp: 68310
Ion Ratio Lower Upper
64 100
66 30.9 23.5 35.3





#7

Trichlorofluoromethane

Concen: 44.844 ug/l

RT: 3.465 min Scan# 258

Delta R.T. -0.030 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:101 Resp: 170051

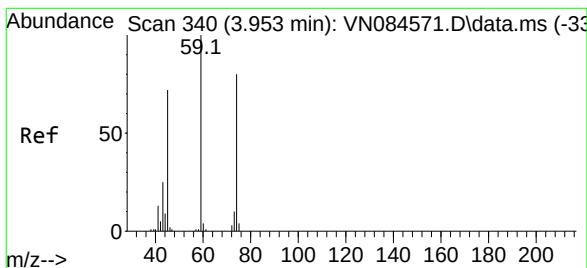
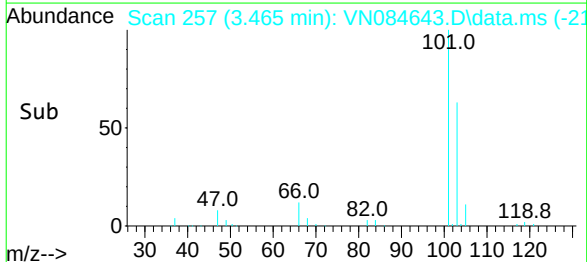
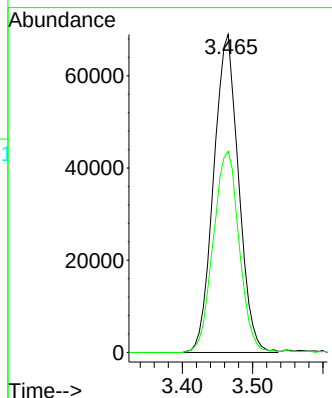
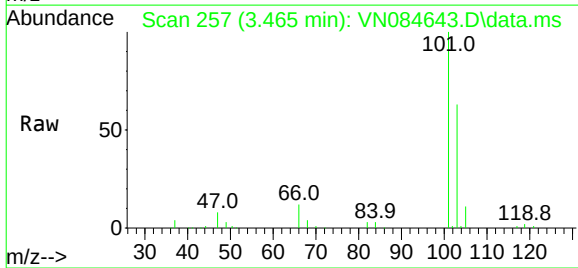
Ion Ratio Lower Upper

101 100

103 63.2 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#8

Diethyl Ether

Concen: 45.608 ug/l

RT: 3.953 min Scan# 340

Delta R.T. -0.006 min

Lab File: VN084643.D

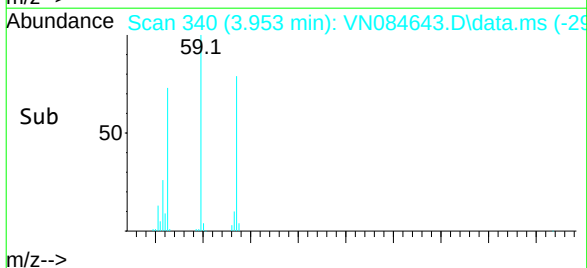
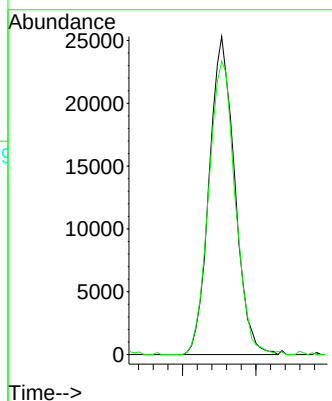
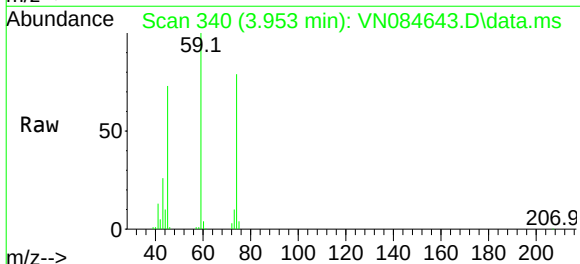
Acq: 01 Nov 2024 17:07

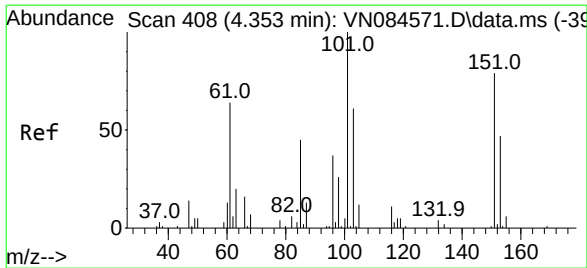
Tgt Ion: 74 Resp: 61010

Ion Ratio Lower Upper

74 100

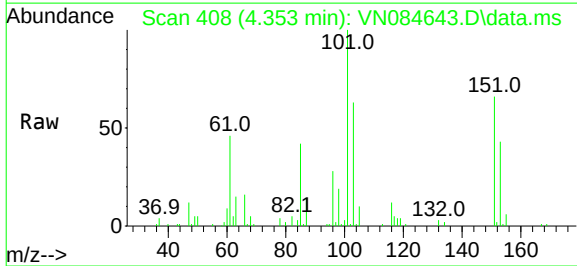
45 96.7 47.7 143.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.999 ug/l
RT: 4.353 min Scan# 408
Delta R.T. -0.018 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

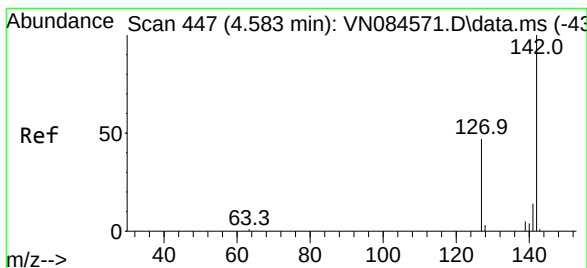
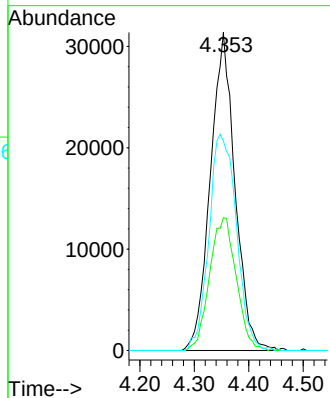
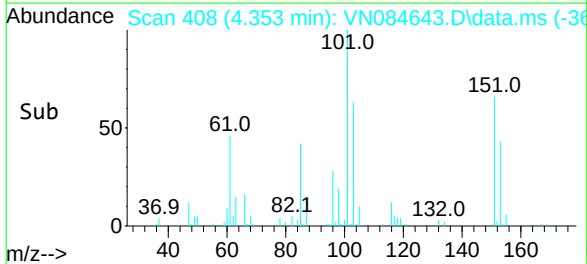
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



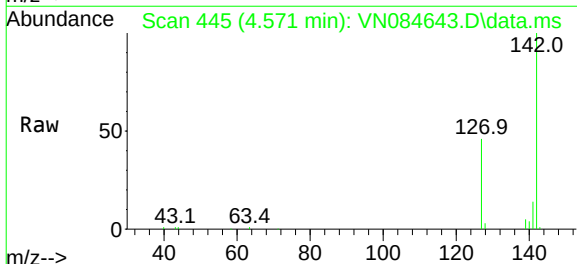
Tgt Ion	Ratio	Lower	Upper
101	100		
85	45.3	36.2	54.4
151	76.0	59.3	88.9

Manual Integrations
APPROVED

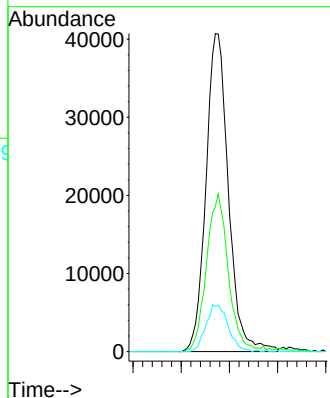
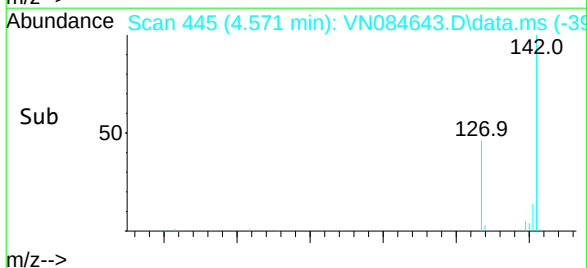
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

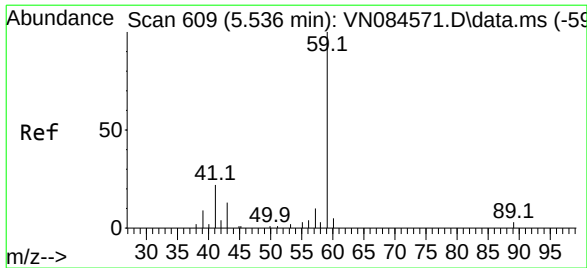


#10
Methyl Iodide
Concen: 45.911 ug/l
RT: 4.571 min Scan# 445
Delta R.T. -0.024 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07



Tgt Ion	Ratio	Lower	Upper
142	100		
127	45.6	35.3	52.9
141	14.2	11.0	16.6





#11

Tert butyl alcohol

Concen: 228.837 ug/l

RT: 5.542 min Scan# 61

Delta R.T. 0.018 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 59 Resp: 81227

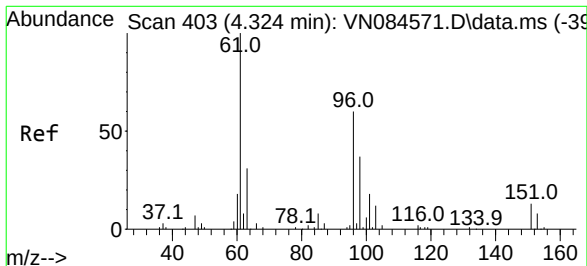
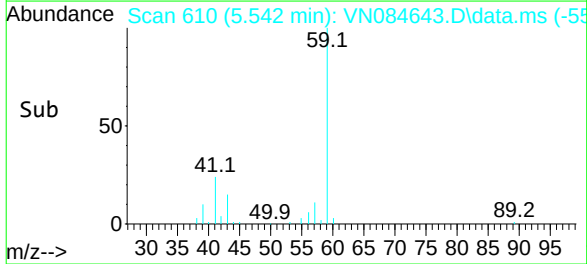
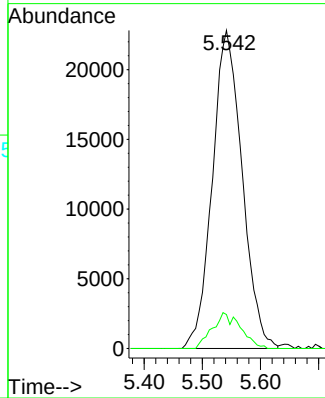
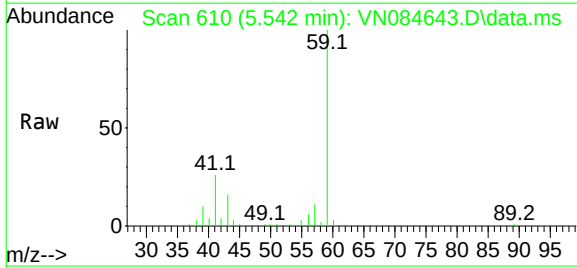
Ion Ratio Lower Upper

59 100

57 10.7 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#12

1,1-Dichloroethene

Concen: 43.875 ug/l

RT: 4.318 min Scan# 402

Delta R.T. -0.024 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

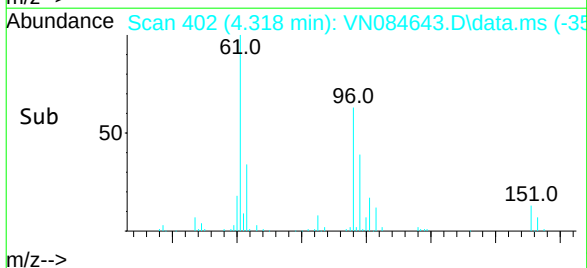
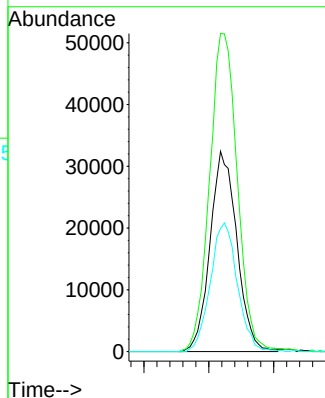
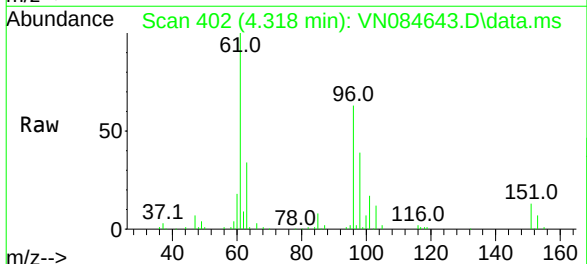
Tgt Ion: 96 Resp: 93026

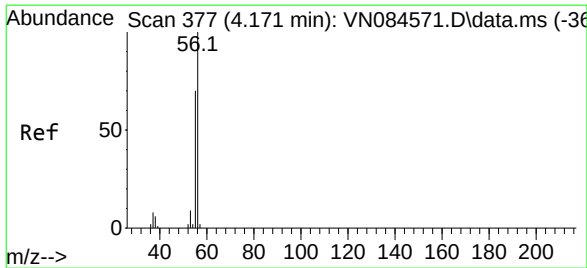
Ion Ratio Lower Upper

96 100

61 158.9 128.6 192.8

98 61.5 51.7 77.5





#13

Acrolein

Concen: 277.733 ug/l

RT: 4.177 min Scan# 377

Delta R.T. -0.000 min

Lab File: VN084643.D

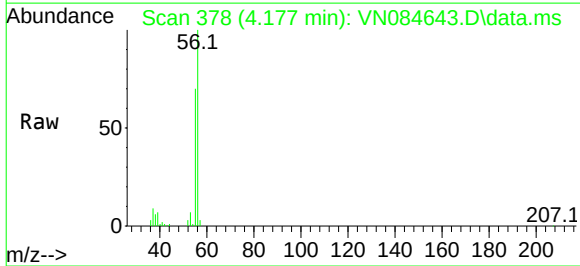
Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC



Tgt Ion: 56 Resp: 98304

Ion Ratio Lower Upper

56 100

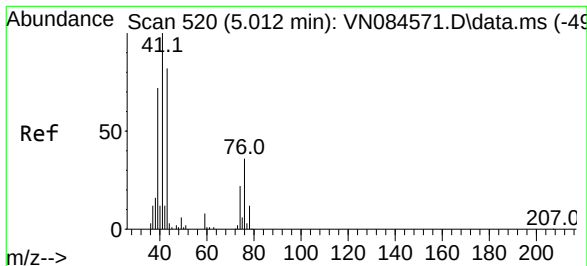
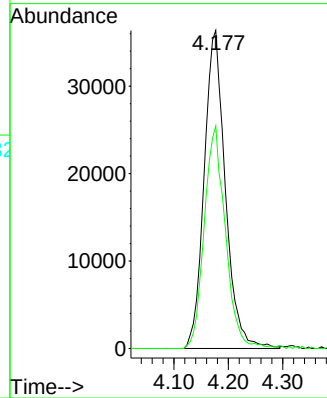
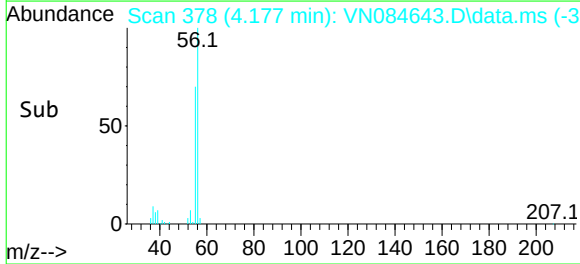
55 69.6 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024



#14

Allyl chloride

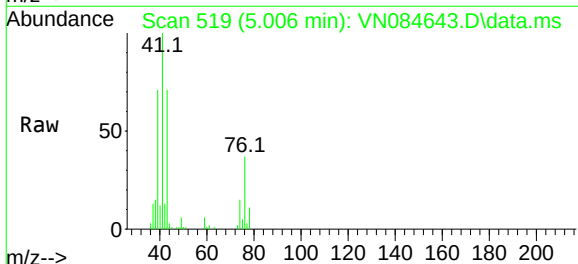
Concen: 47.184 ug/l

RT: 5.006 min Scan# 519

Delta R.T. -0.018 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07



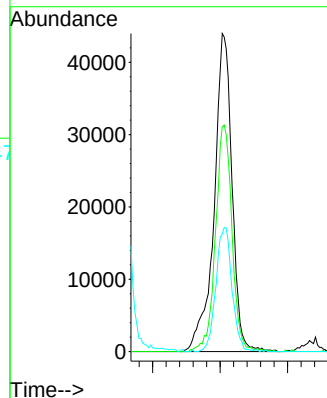
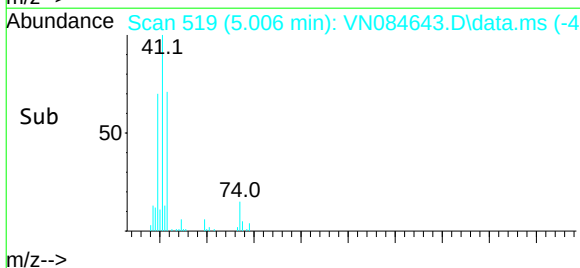
Tgt Ion: 41 Resp: 162243

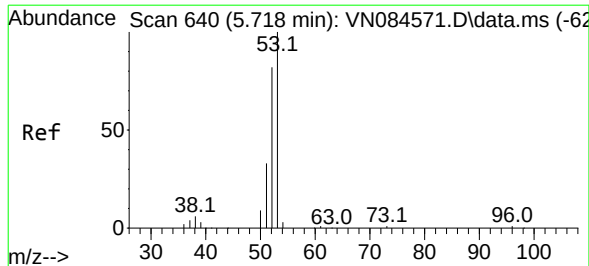
Ion Ratio Lower Upper

41 100

39 65.3 59.0 88.6

76 34.9 29.8 44.6





#15

Acrylonitrile

Concen: 251.237 ug/l

RT: 5.718 min Scan# 640

Delta R.T. -0.000 min

Lab File: VN084643.D

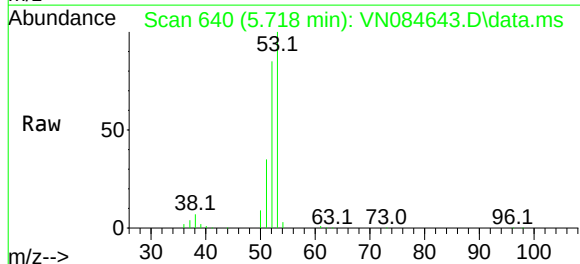
Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

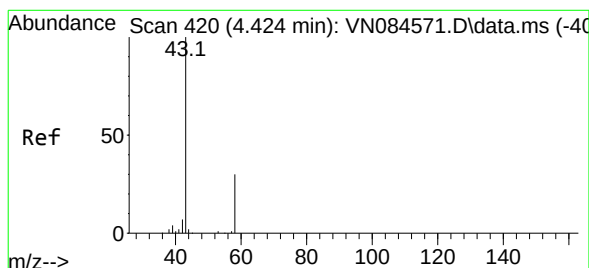
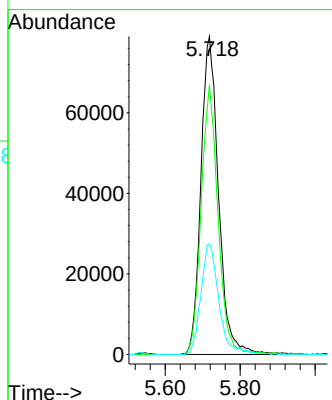
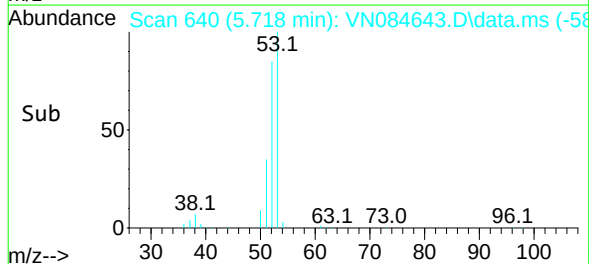
VSTDCCC050EC



Tgt Ion:	53	Resp:	258166
Ion	Ratio	Lower	Upper
53	100		
52	80.4	66.2	99.4
51	35.5	28.8	43.2

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#16

Acetone

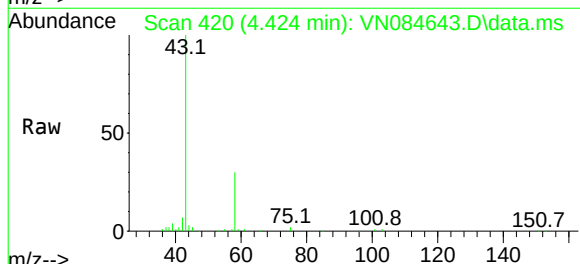
Concen: 296.026 ug/l

RT: 4.424 min Scan# 420

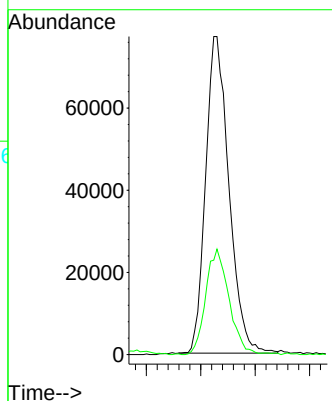
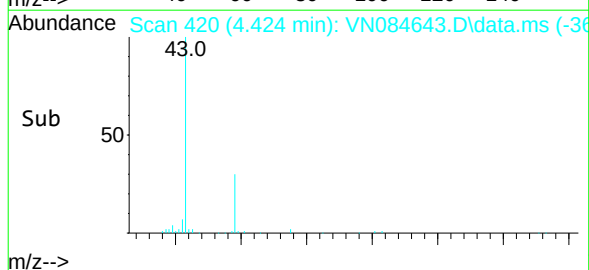
Delta R.T. -0.000 min

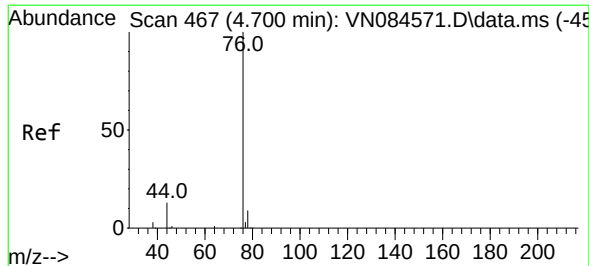
Lab File: VN084643.D

Acq: 01 Nov 2024 17:07



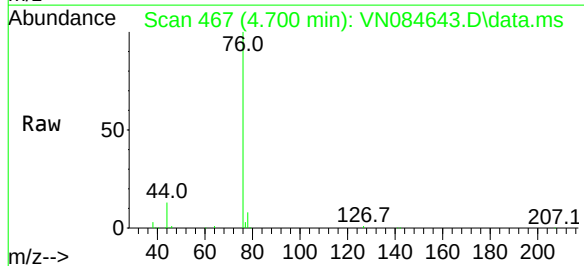
Tgt Ion:	43	Resp:	229540
Ion	Ratio	Lower	Upper
43	100		
58	29.6	24.4	36.6





#17
Carbon Disulfide
Concen: 40.777 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.012 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

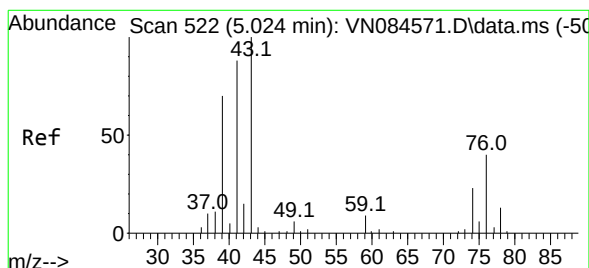
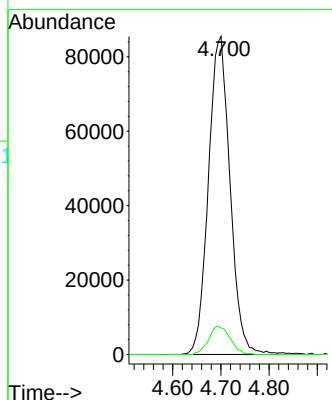
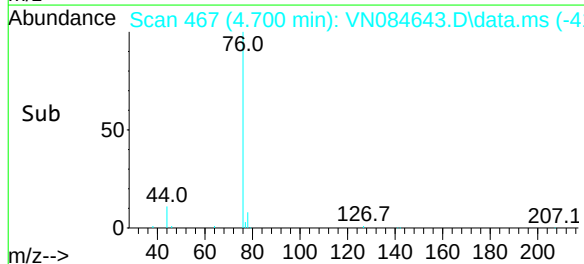
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 76 Resp: 266246
Ion Ratio Lower Upper
76 100
78 8.3 7.3 10.9

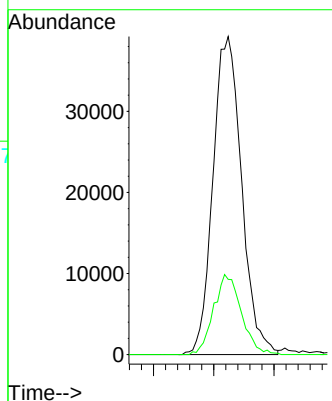
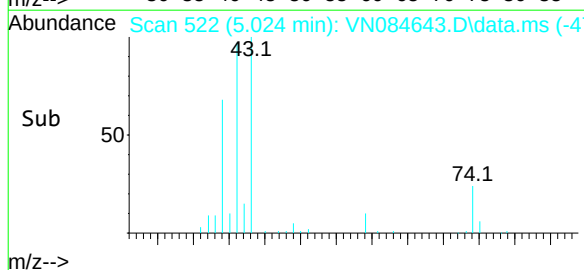
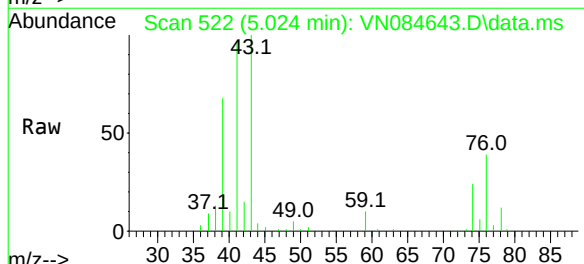
Manual Integrations
APPROVED

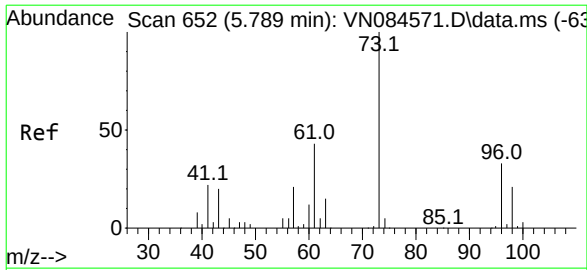
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#18
Methyl Acetate
Concen: 45.245 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

Tgt Ion: 43 Resp: 129461
Ion Ratio Lower Upper
43 100
74 24.4 19.2 28.8





#19

Methyl tert-butyl Ether

Concen: 49.590 ug/l

RT: 5.794 min Scan# 65

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 73 Resp: 322267

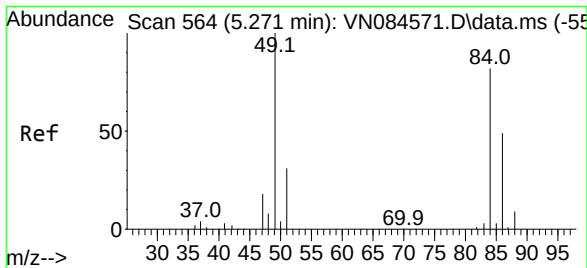
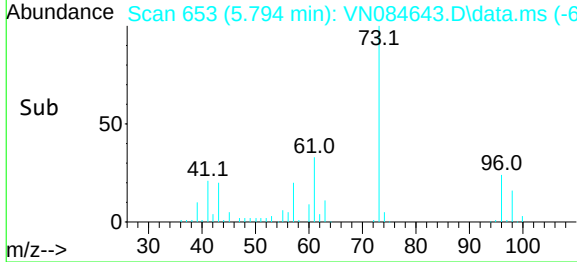
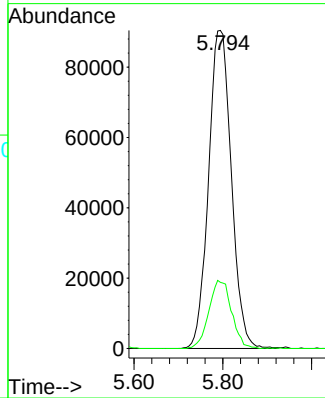
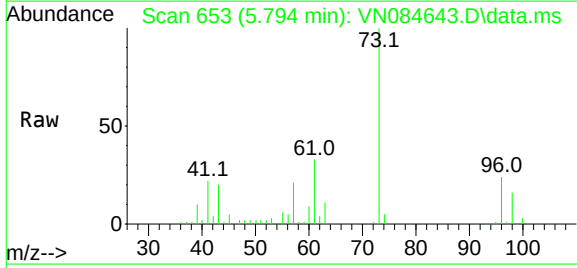
Ion Ratio Lower Upper

73 100

57 20.8 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#20

Methylene Chloride

Concen: 45.606 ug/l

RT: 5.265 min Scan# 563

Delta R.T. -0.012 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Tgt Ion: 84 Resp: 107863

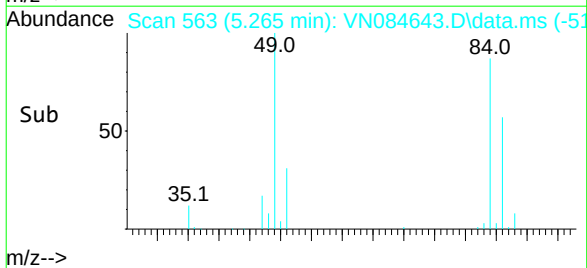
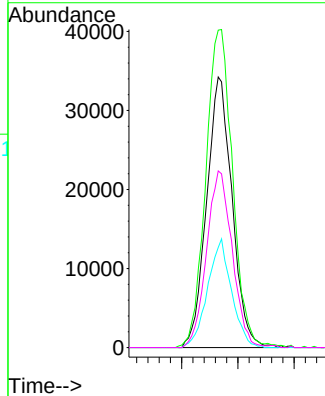
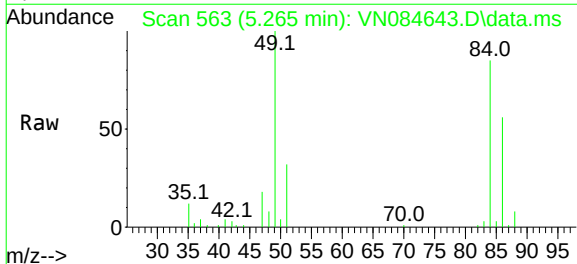
Ion Ratio Lower Upper

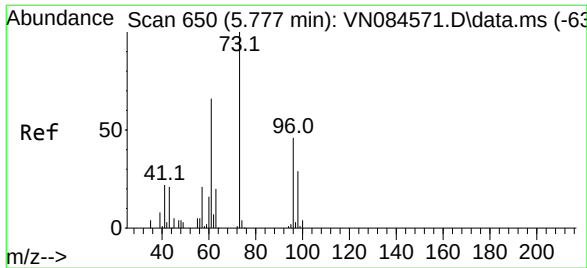
84 100

49 116.7 107.2 160.8

51 37.0 31.8 47.8

86 65.3 52.9 79.3





#21

trans-1,2-Dichloroethene

Concen: 45.684 ug/l

RT: 5.777 min Scan# 650

Delta R.T. -0.012 min

Lab File: VN084643.D

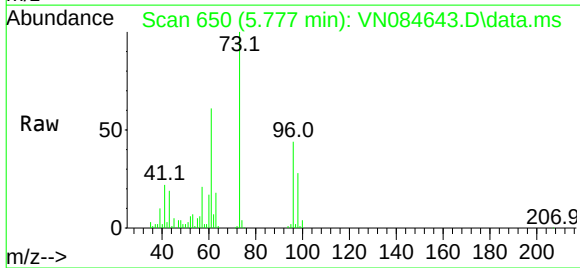
Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC



Tgt Ion: 96 Resp: 99460

Ion Ratio Lower Upper

96 100

61 136.2 108.4 162.6

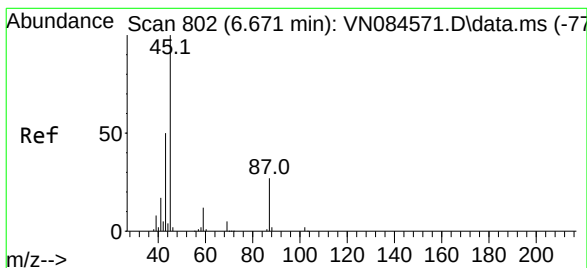
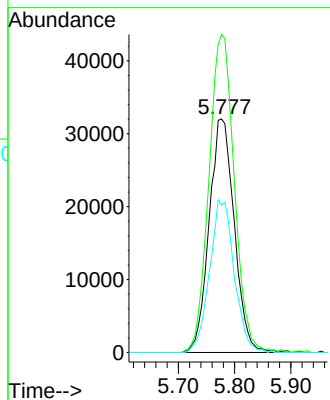
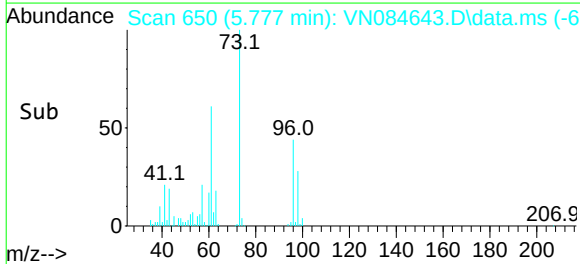
98 63.0 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024



#22

Diisopropyl ether

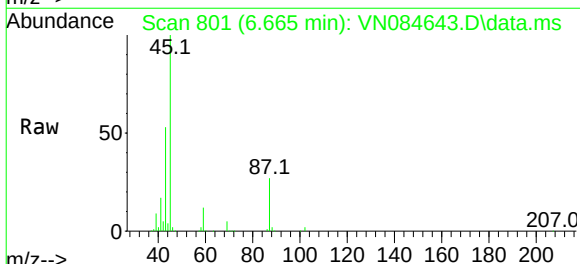
Concen: 48.902 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.006 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07



Tgt Ion: 45 Resp: 334111

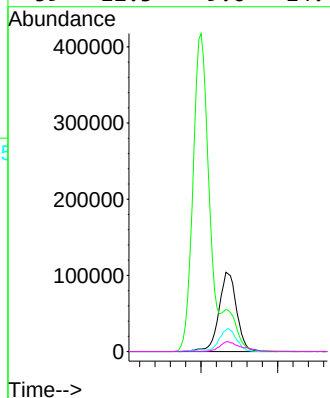
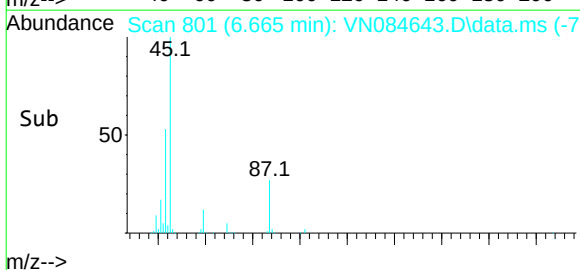
Ion Ratio Lower Upper

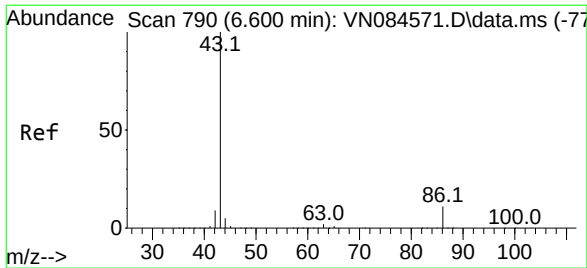
45 100

43 52.4 42.3 63.5

87 26.9 21.8 32.6

59 12.3 9.6 14.4





#23

Vinyl Acetate

Concen: 255.447 ug/l

RT: 6.600 min Scan# 790

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 1203577

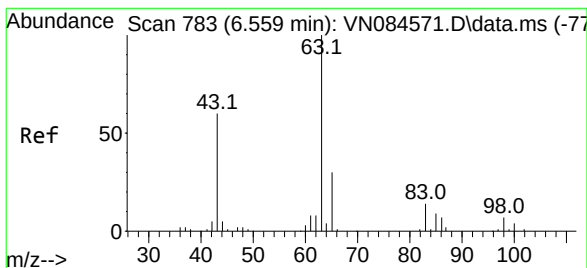
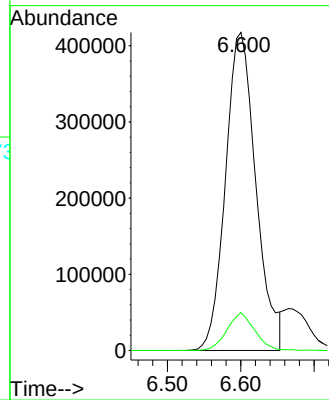
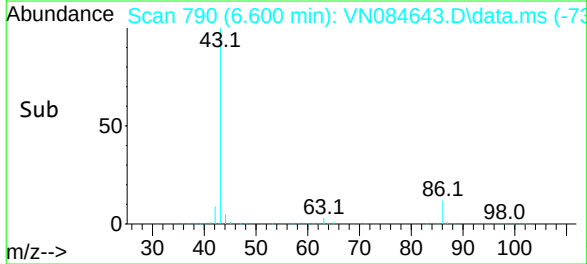
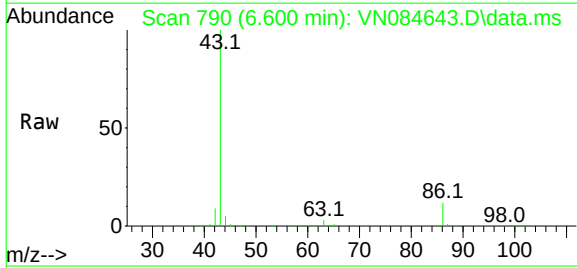
Ion Ratio Lower Upper

43 100

86 11.9 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#24

1,1-Dichloroethane

Concen: 47.100 ug/l

RT: 6.565 min Scan# 784

Delta R.T. -0.006 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

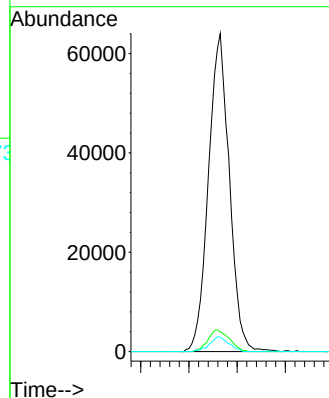
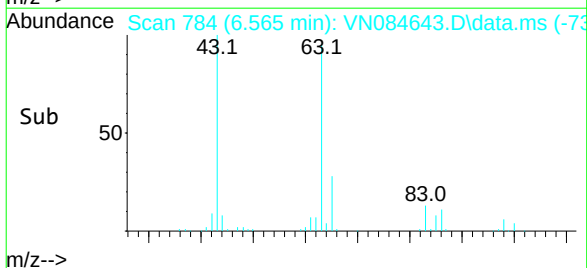
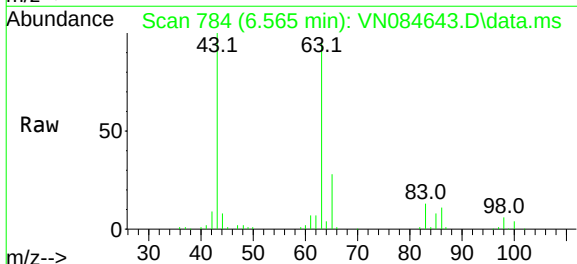
Tgt Ion: 63 Resp: 193202

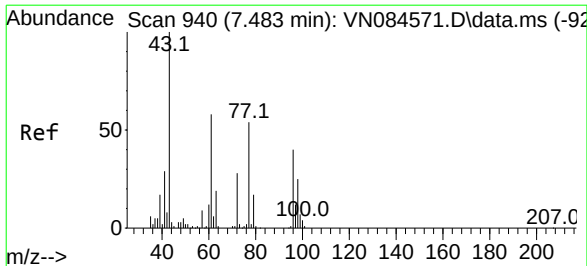
Ion Ratio Lower Upper

63 100

98 6.3 3.4 10.2

100 4.5 2.0 5.8





#25

2-Butanone

Concen: 269.898 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 338602

Ion Ratio Lower Upper

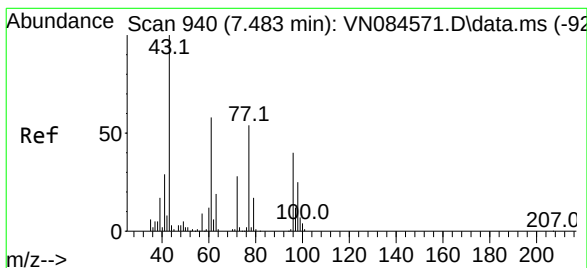
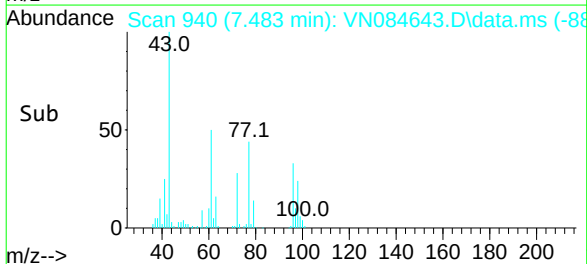
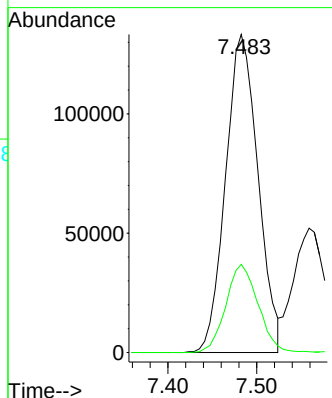
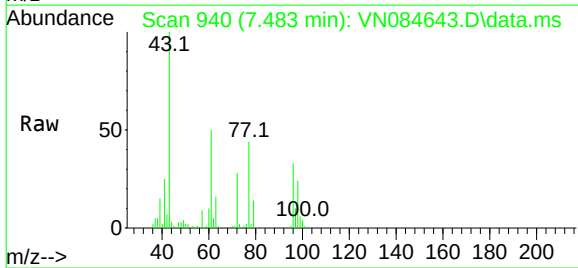
43 100

72 27.7 21.4 32.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#26

2,2-Dichloropropane

Concen: 46.857 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.006 min

Lab File: VN084643.D

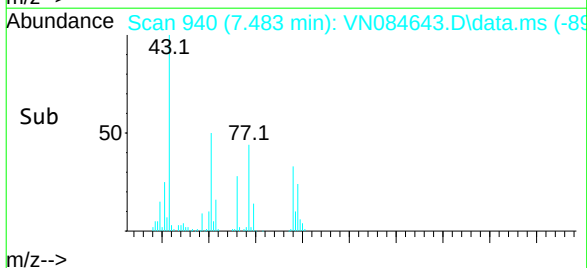
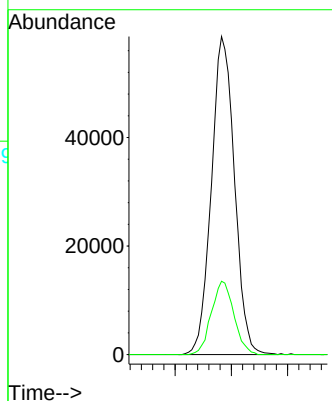
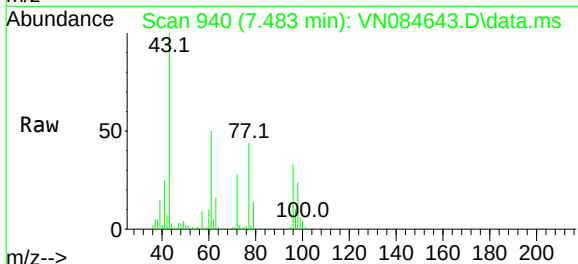
Acq: 01 Nov 2024 17:07

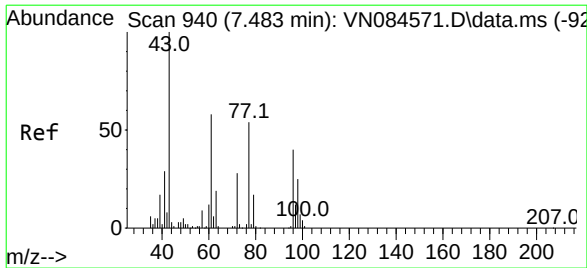
Tgt Ion: 77 Resp: 167290

Ion Ratio Lower Upper

77 100

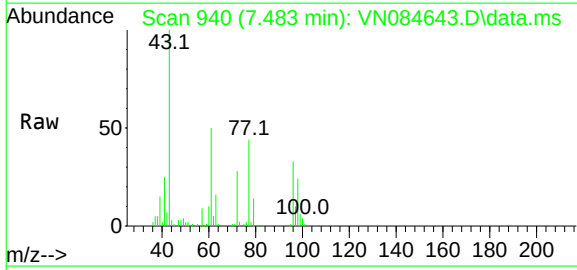
97 22.5 10.8 32.3





#27
cis-1,2-Dichloroethene
Concen: 46.674 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

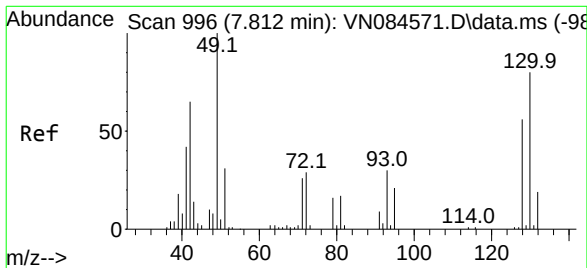
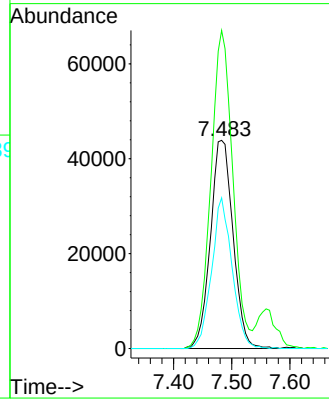
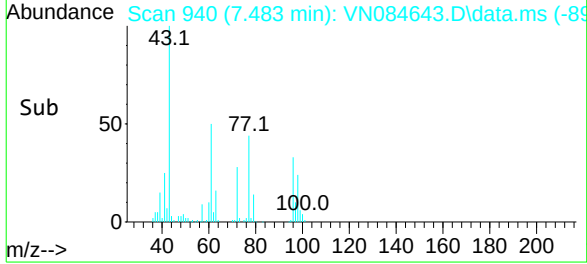
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 96 Resp: 118651
Ion Ratio Lower Upper
96 100
61 147.7 0.0 301.8
98 65.5 0.0 128.2

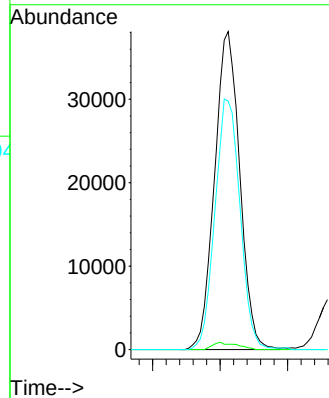
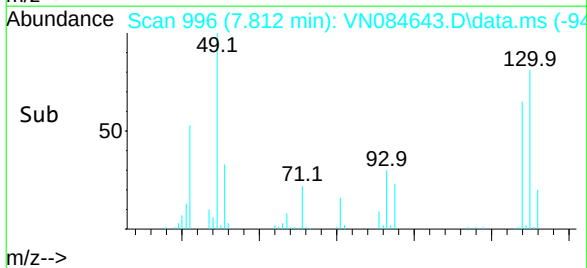
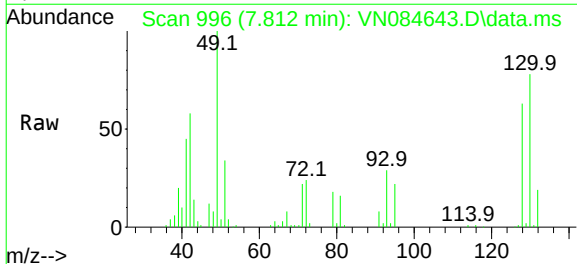
Manual Integrations
APPROVED

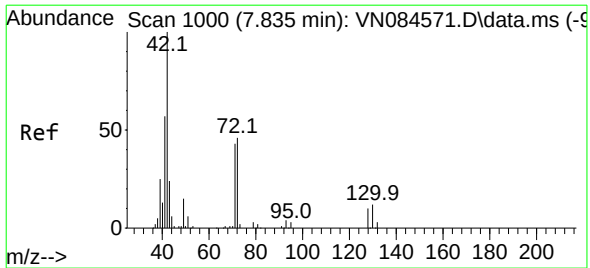
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#28
Bromochloromethane
Concen: 60.545 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

Tgt Ion: 49 Resp: 98947
Ion Ratio Lower Upper
49 100
129 2.2 0.0 3.6
130 78.3 58.0 87.0





#29

Tetrahydrofuran

Concen: 261.234 ug/l

RT: 7.841 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 42 Resp: 217423

Ion Ratio Lower Upper

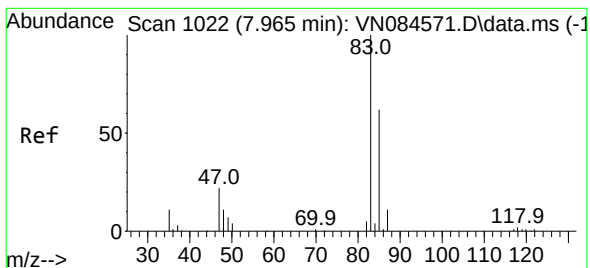
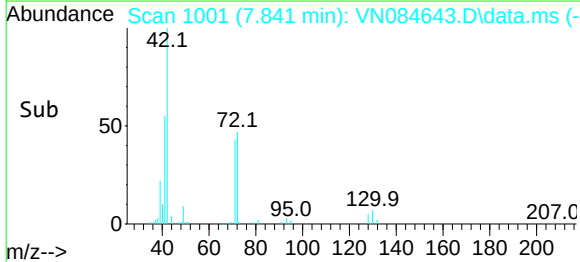
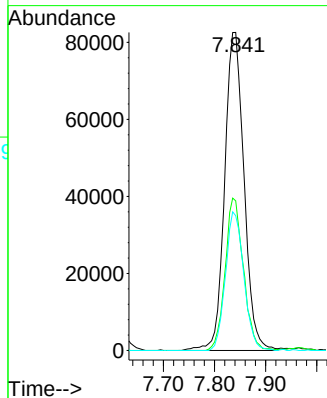
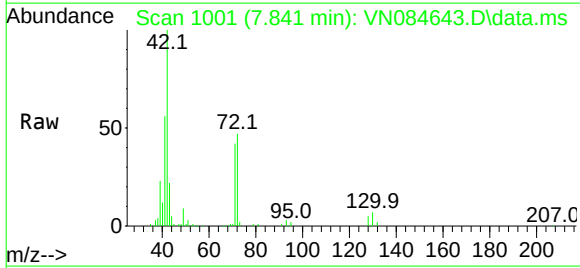
42 100

72 45.2 34.6 51.8

71 41.2 32.2 48.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#30

Chloroform

Concen: 47.816 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VN084643.D

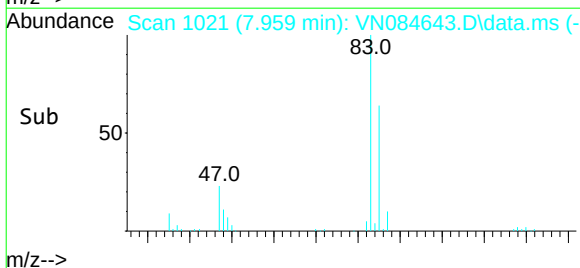
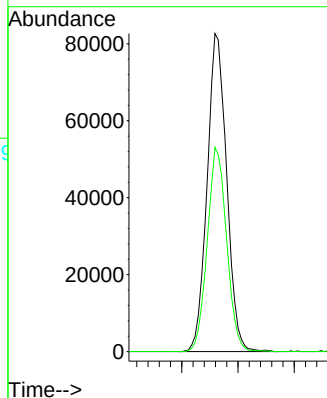
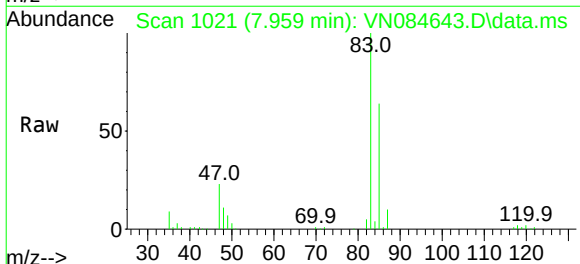
Acq: 01 Nov 2024 17:07

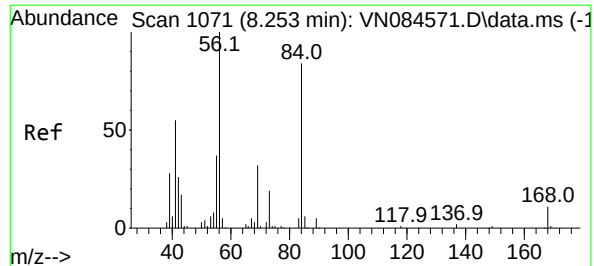
Tgt Ion: 83 Resp: 199633

Ion Ratio Lower Upper

83 100

85 64.2 51.0 76.4





#31

Cyclohexane

Concen: 43.702 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 56 Resp: 162246

Ion Ratio Lower Upper

56 100

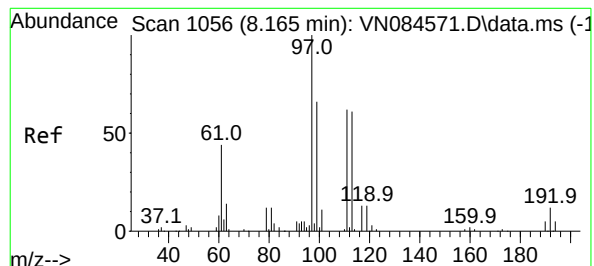
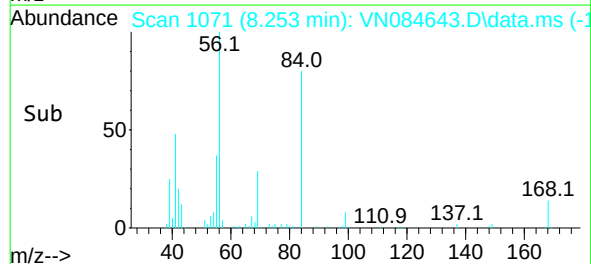
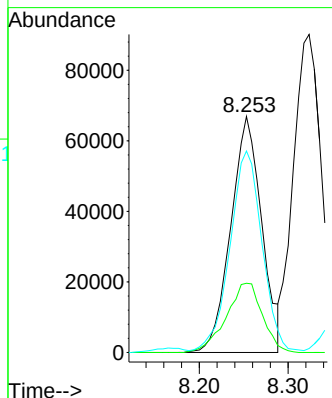
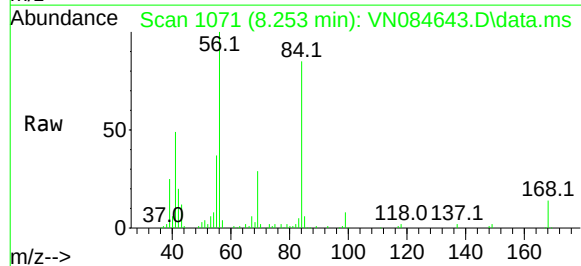
69 29.3 23.8 35.6

84 83.6 68.8 103.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
 Supervised By :Semsettin Yesilyurt 11/04/2024



#32

1,1,1-Trichloroethane

Concen: 46.667 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

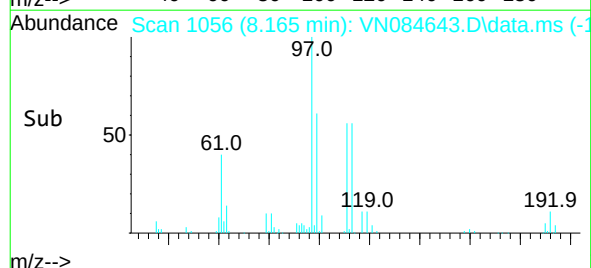
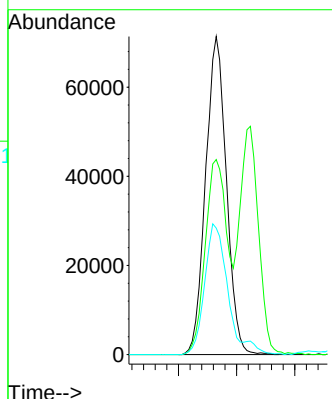
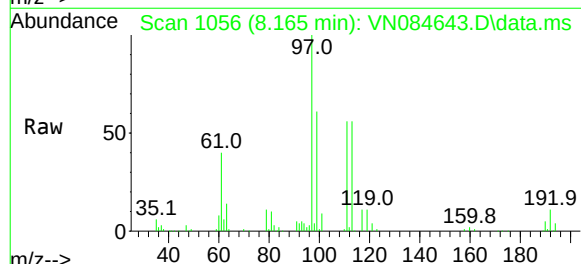
Tgt Ion: 97 Resp: 177337

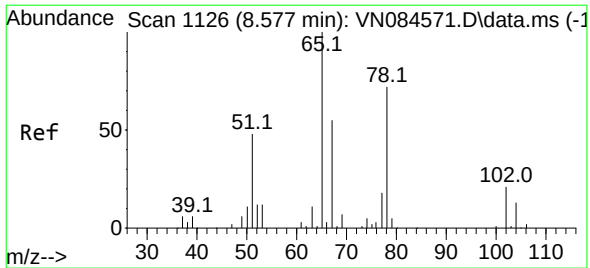
Ion Ratio Lower Upper

97 100

99 65.6 51.2 76.8

61 43.4 37.5 56.3





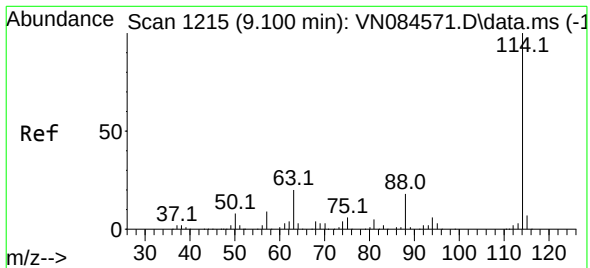
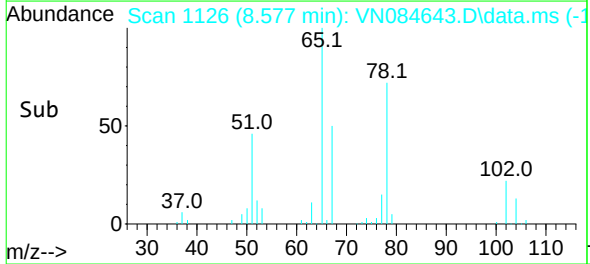
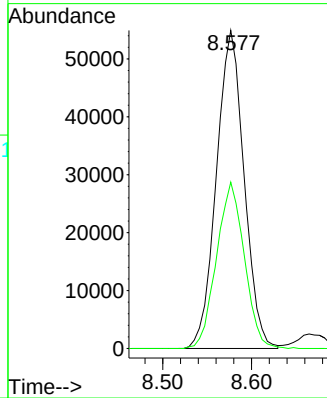
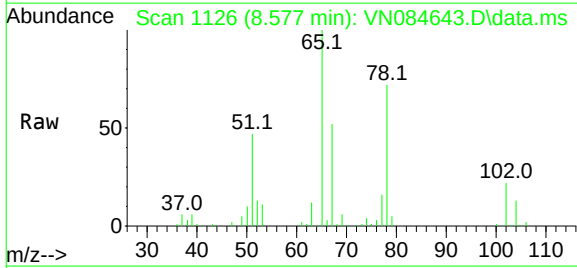
#33
1,2-Dichloroethane-d4
Concen: 44.214 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 118895
Ion Ratio Lower Upper
65 100
67 52.5 0.0 102.0

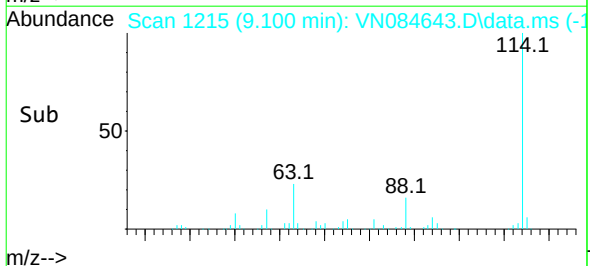
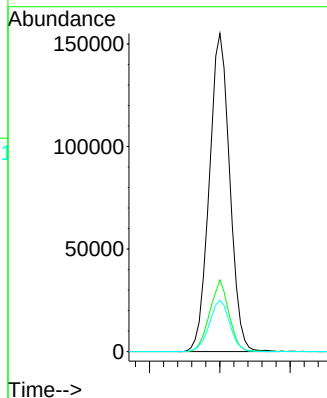
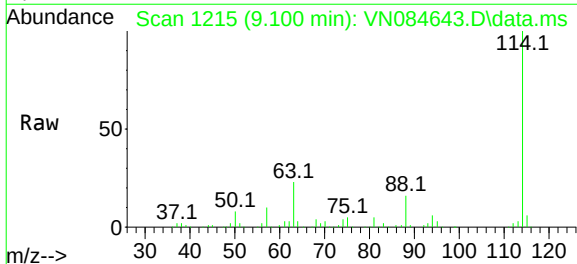
Manual Integrations
APPROVED

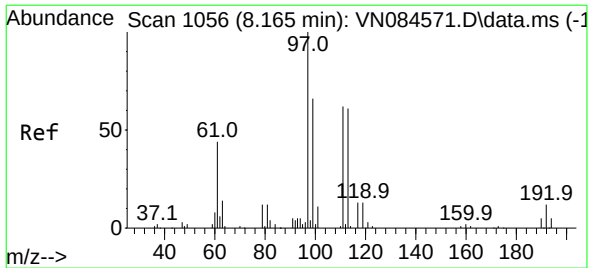
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

Tgt Ion:114 Resp: 313120
Ion Ratio Lower Upper
114 100
63 22.5 0.0 43.8
88 16.1 0.0 31.6





#35

Dibromofluoromethane

Concen: 45.633 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:113 Resp: 96716

Ion Ratio Lower Upper

113 100

111 100.8 83.3 124.9

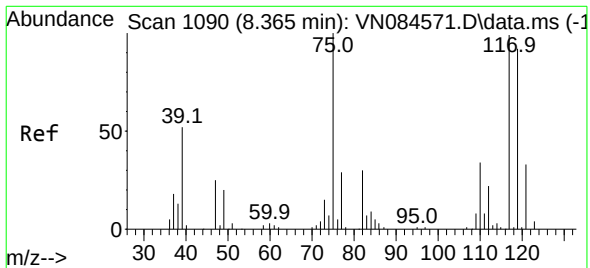
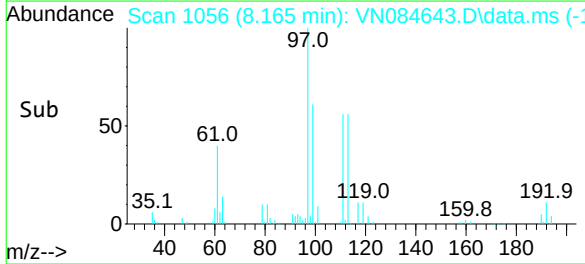
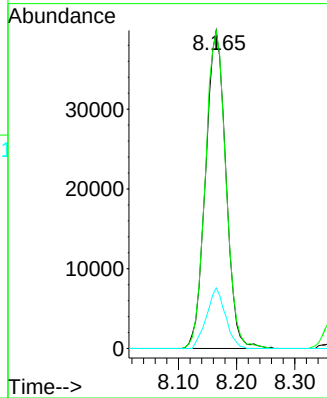
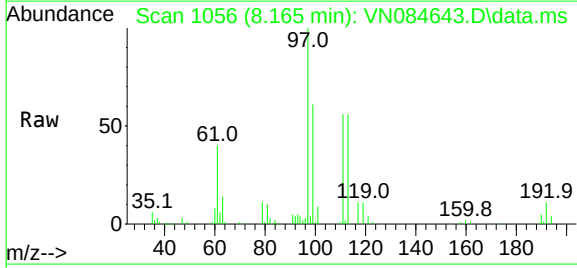
192 17.7 13.5 20.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024



#36

1,1-Dichloropropene

Concen: 46.898 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.006 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

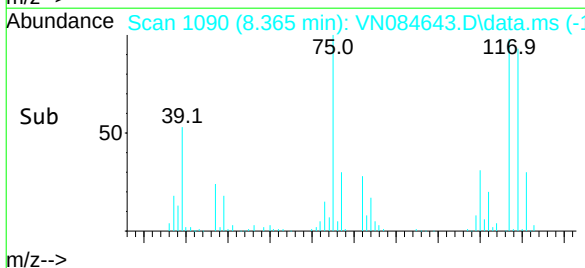
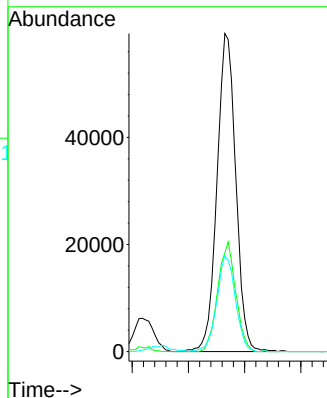
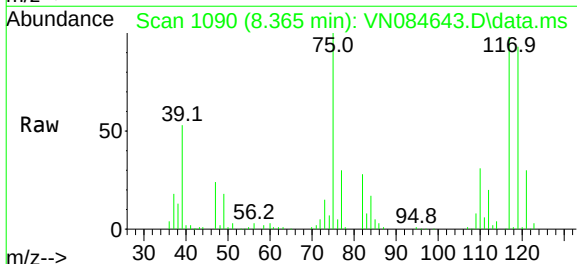
Tgt Ion: 75 Resp: 137852

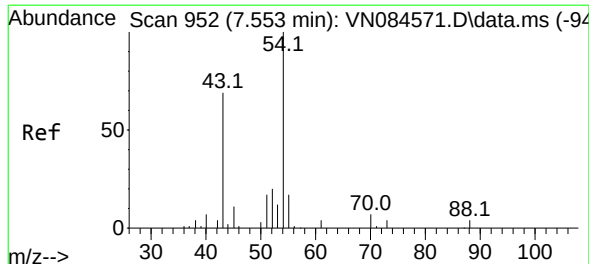
Ion Ratio Lower Upper

75 100

110 33.1 16.9 50.7

77 29.9 24.7 37.1





#37

Ethyl Acetate

Concen: 50.206 ug/l

RT: 7.559 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 133895

Ion Ratio Lower Upper

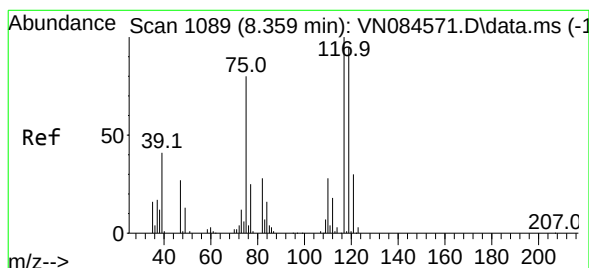
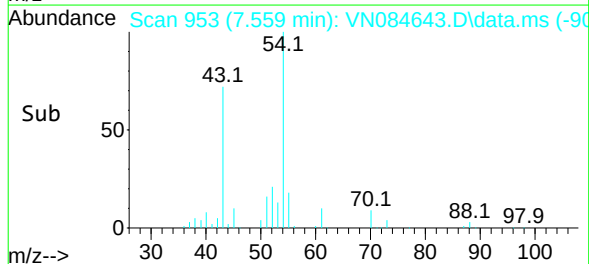
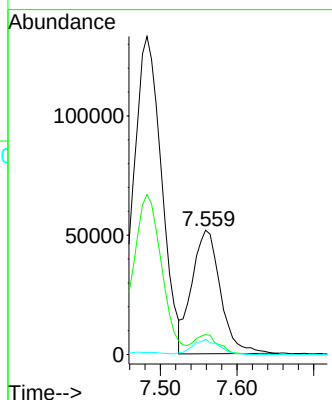
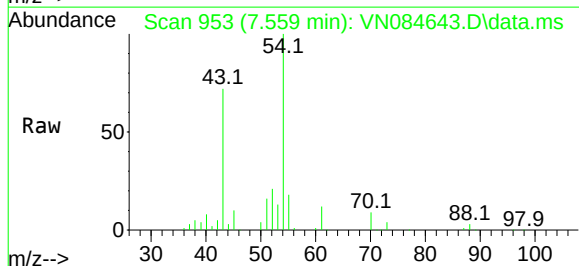
43 100

61 13.8 10.7 16.1

70 11.2 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#38

Carbon Tetrachloride

Concen: 47.123 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

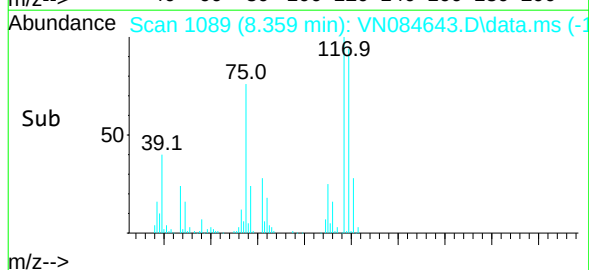
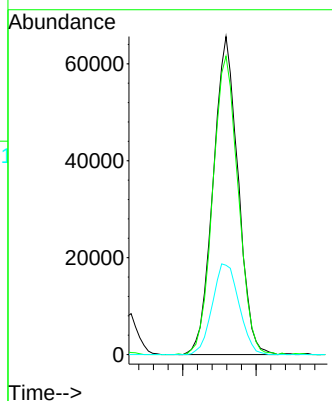
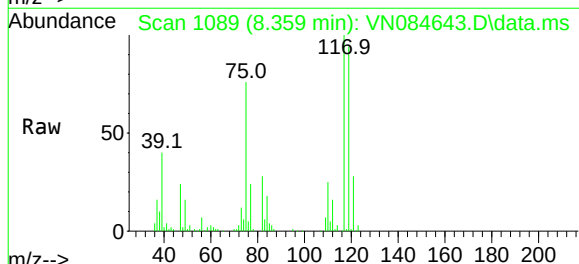
Tgt Ion:117 Resp: 154823

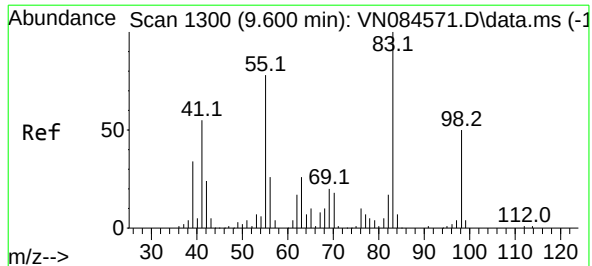
Ion Ratio Lower Upper

117 100

119 93.8 78.7 118.1

121 28.1 24.4 36.6





#39

Methylcyclohexane

Concen: 49.108 ug/l

RT: 9.600 min Scan# 1310

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 83 Resp: 146850

Ion Ratio Lower Upper

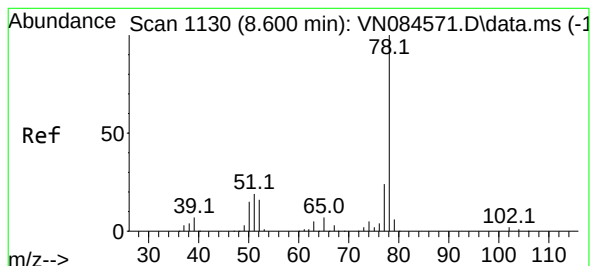
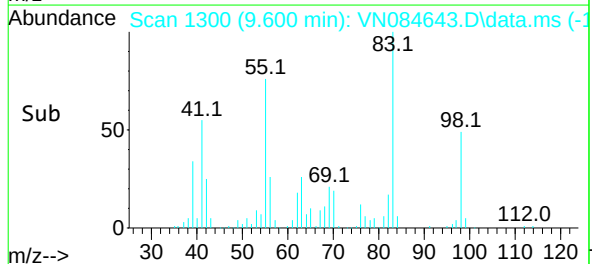
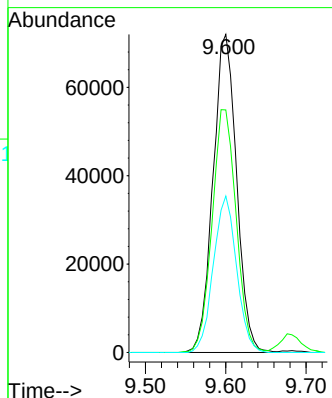
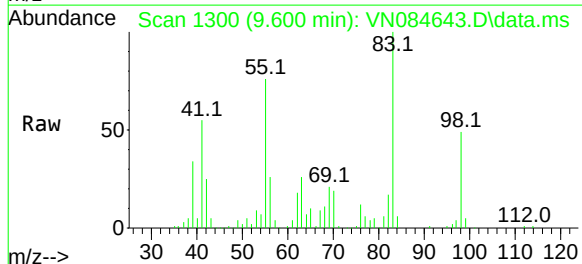
83 100

55 76.3 62.8 94.2

98 49.2 38.8 58.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#40

Benzene

Concen: 46.647 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VN084643.D

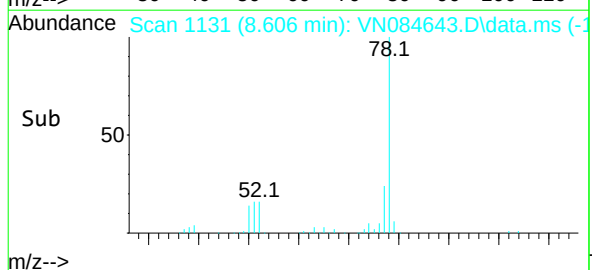
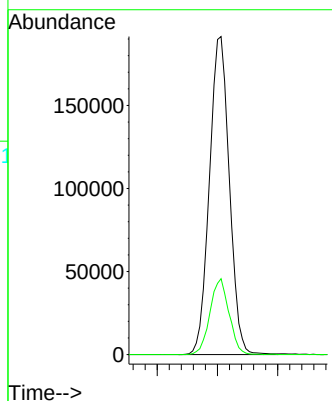
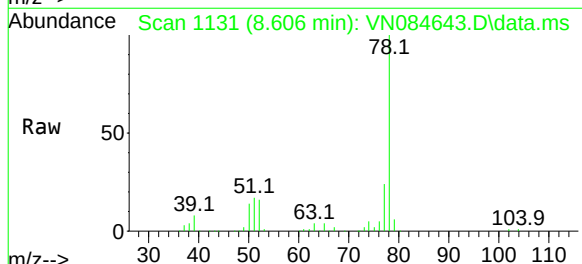
Acq: 01 Nov 2024 17:07

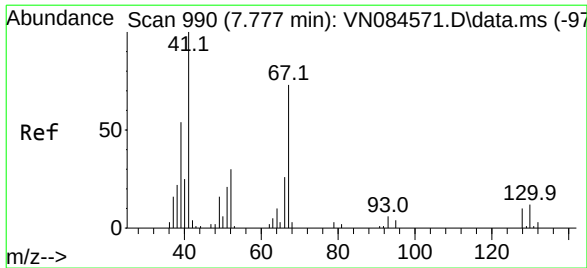
Tgt Ion: 78 Resp: 440337

Ion Ratio Lower Upper

78 100

77 23.9 19.1 28.7





#41

Methacrylonitrile

Concen: 53.530 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 41 Resp: 76770

Ion Ratio Lower Upper

41 100

39 54.0 43.3 64.9

67 72.3 56.1 84.1

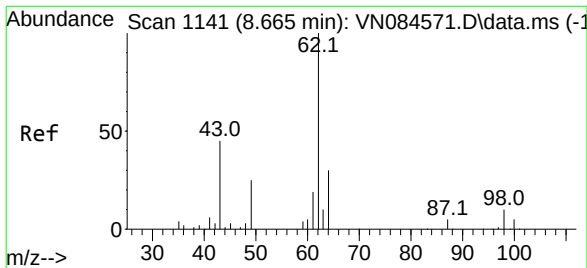
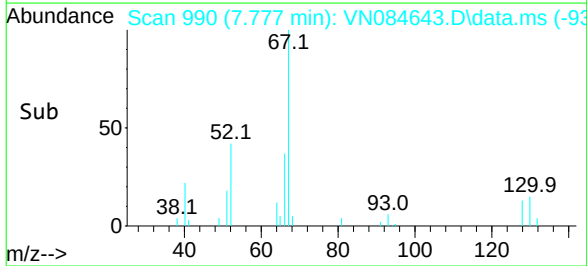
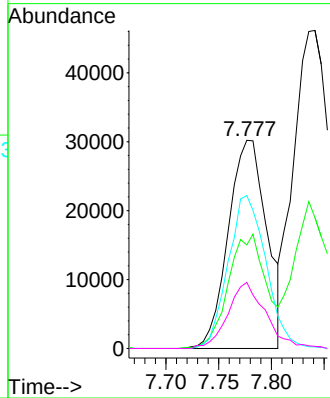
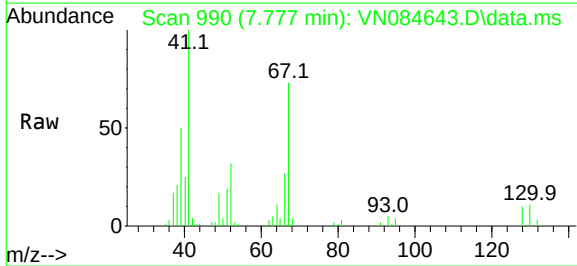
52 31.2 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024



#42

1,2-Dichloroethane

Concen: 47.467 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VN084643.D

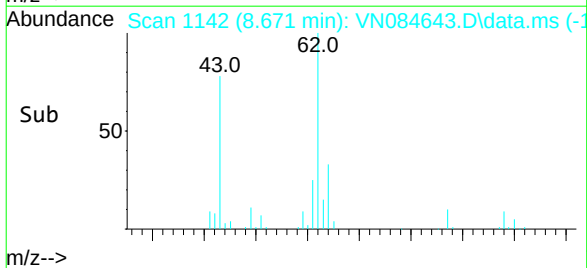
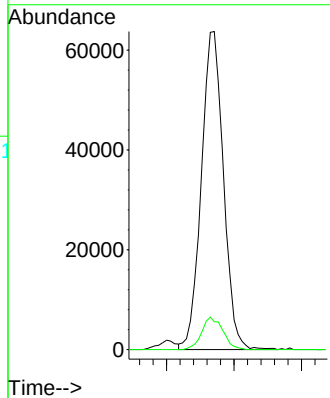
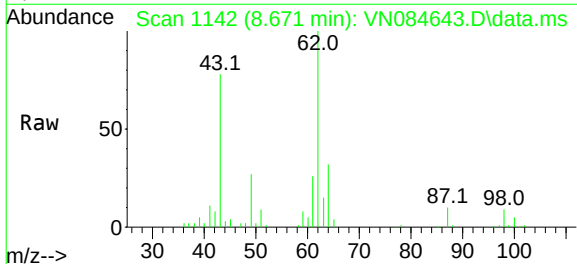
Acq: 01 Nov 2024 17:07

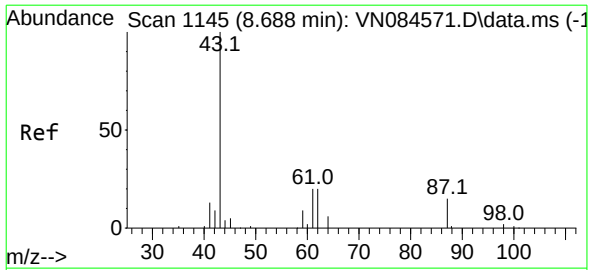
Tgt Ion: 62 Resp: 145115

Ion Ratio Lower Upper

62 100

98 9.8 0.0 18.2





#43

Isopropyl Acetate

Concen: 48.051 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 236927

Ion Ratio Lower Upper

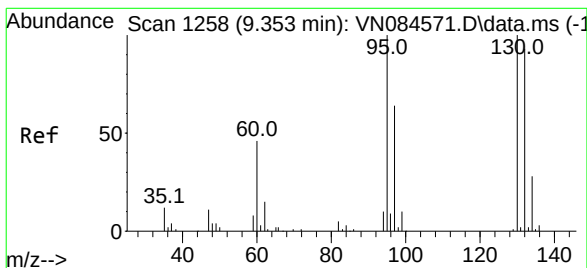
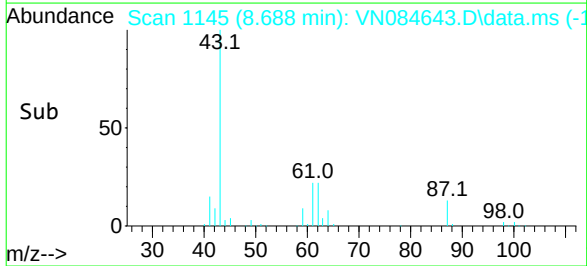
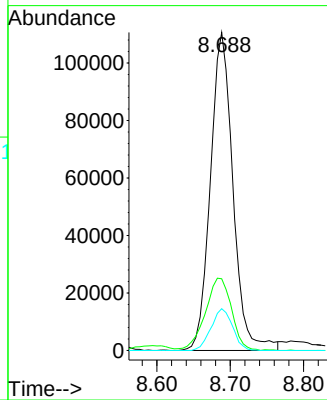
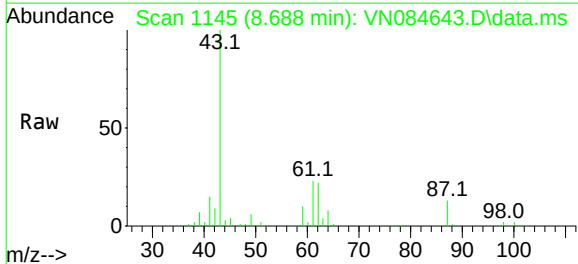
43 100

61 26.5 20.4 30.6

87 12.5 10.3 15.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#44

Trichloroethene

Concen: 44.913 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.006 min

Lab File: VN084643.D

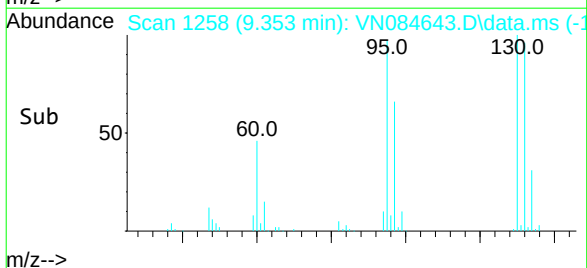
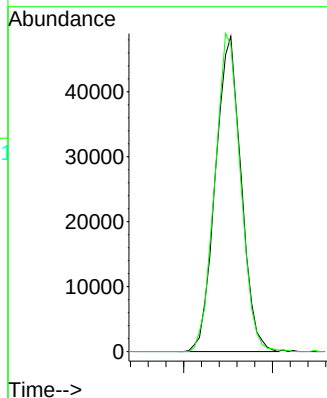
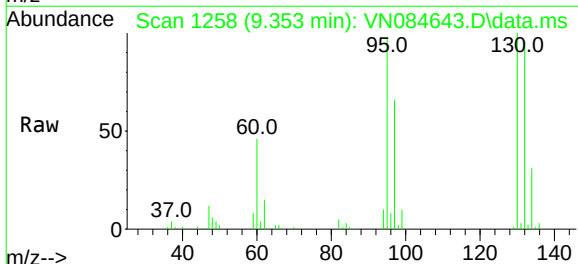
Acq: 01 Nov 2024 17:07

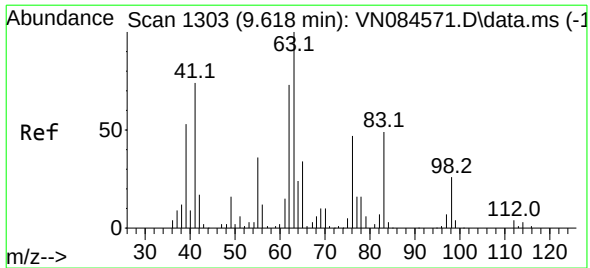
Tgt Ion:130 Resp: 97778

Ion Ratio Lower Upper

130 100

95 97.3 0.0 203.0





#45

1,2-Dichloropropane

Concen: 47.842 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 63 Resp: 105940

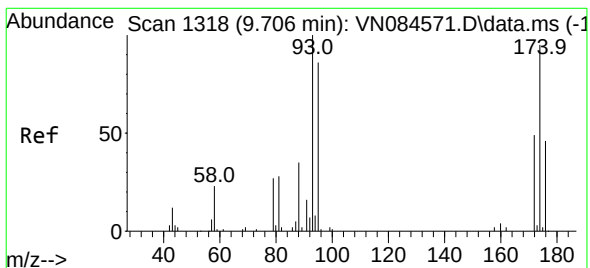
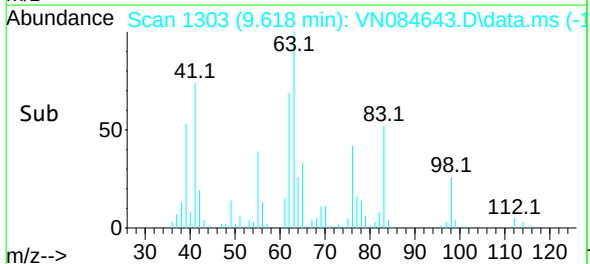
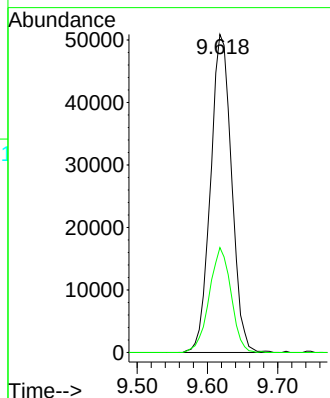
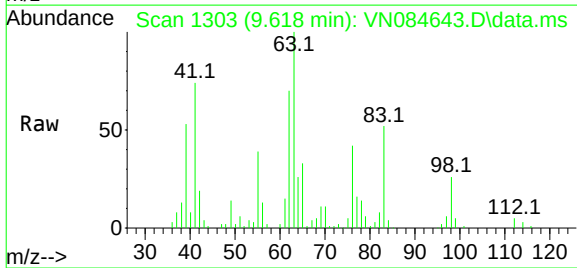
Ion Ratio Lower Upper

63 100

65 33.0 24.6 37.0

Manual Integrations

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Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#46

Dibromomethane

Concen: 47.678 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

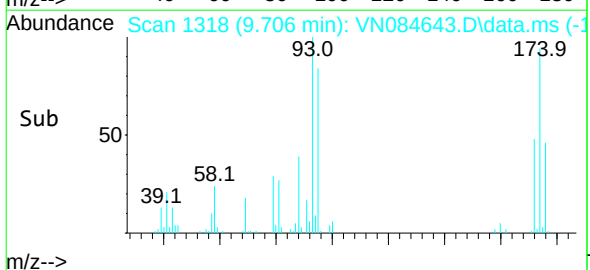
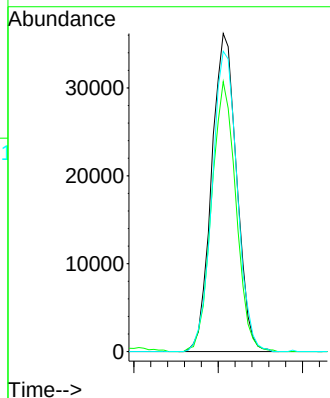
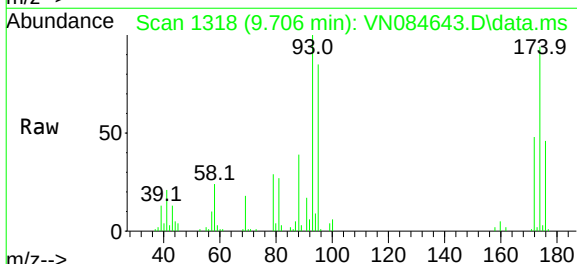
Tgt Ion: 93 Resp: 74499

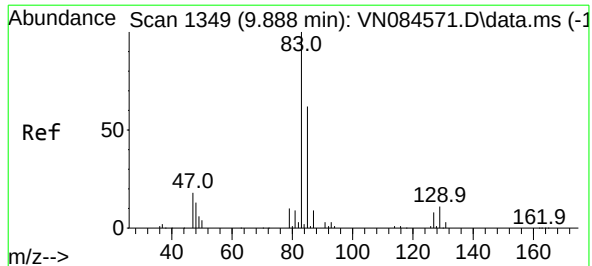
Ion Ratio Lower Upper

93 100

95 82.5 65.0 97.4

174 94.6 71.8 107.8





#47

Bromodichloromethane

Concen: 47.883 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 83 Resp: 157714

Ion Ratio Lower Upper

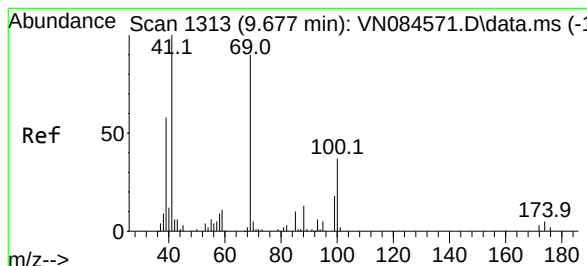
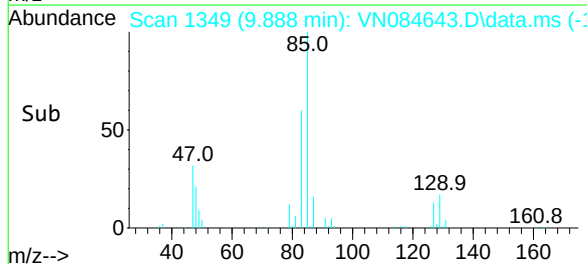
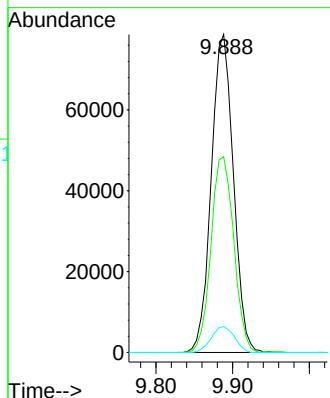
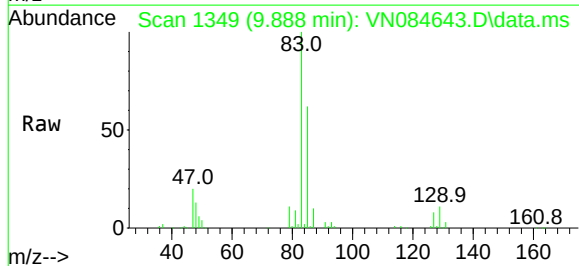
83 100

85 61.6 51.5 77.3

127 8.2 5.7 8.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#48

Methyl methacrylate

Concen: 52.208 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

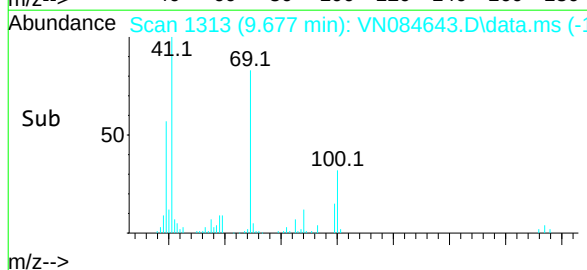
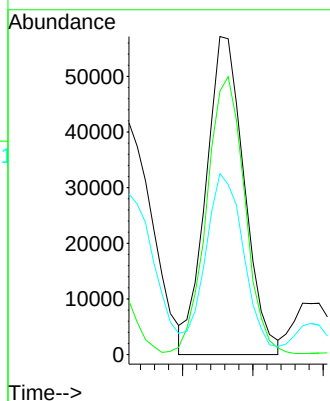
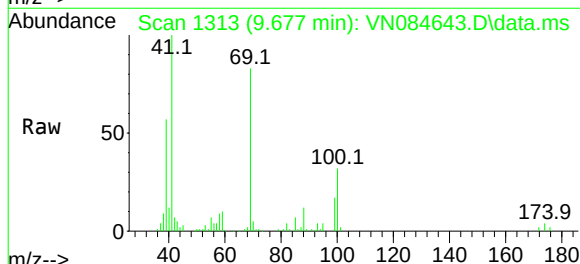
Tgt Ion: 41 Resp: 108363

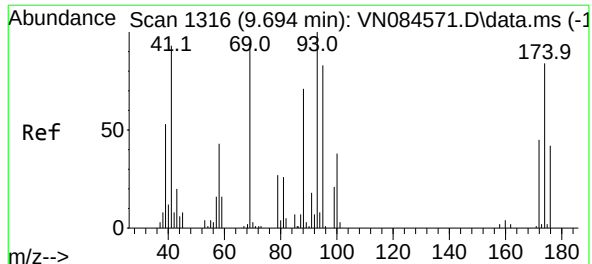
Ion Ratio Lower Upper

41 100

69 86.3 67.1 100.7

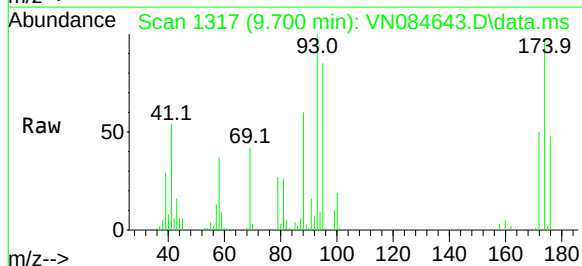
39 57.7 45.8 68.6





#49
1,4-Dioxane
Concen: 1116.514 ug/l
RT: 9.700 min Scan# 1316
Delta R.T. 0.006 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

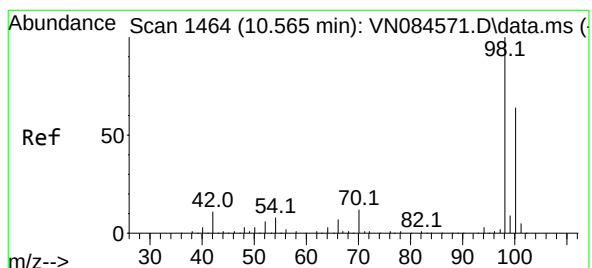
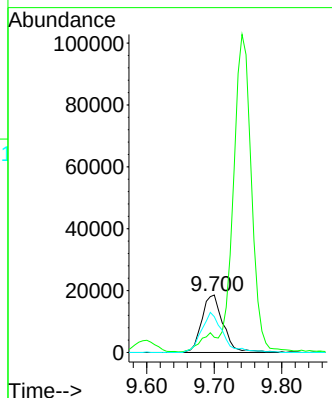
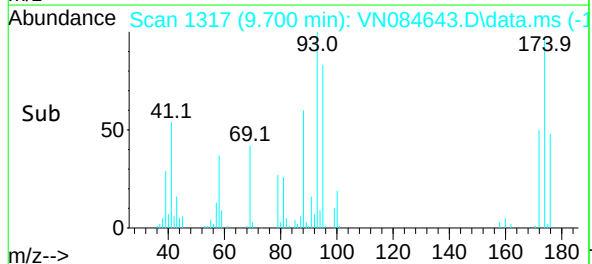
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 88 Resp: 41066
Ion Ratio Lower Upper
88 100
43 26.4 25.3 37.9
58 70.1 56.4 84.6

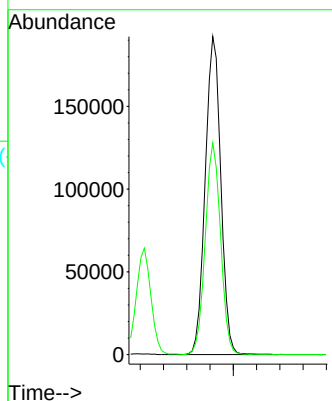
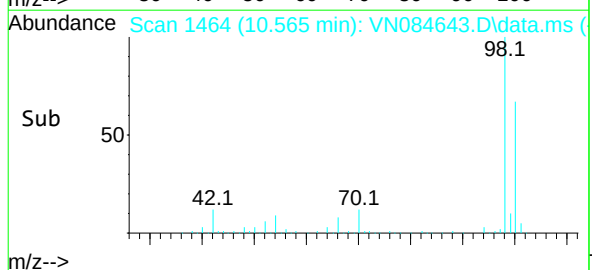
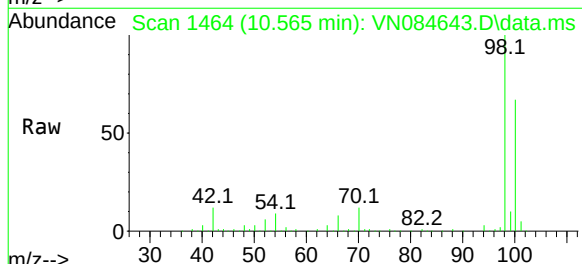
Manual Integrations
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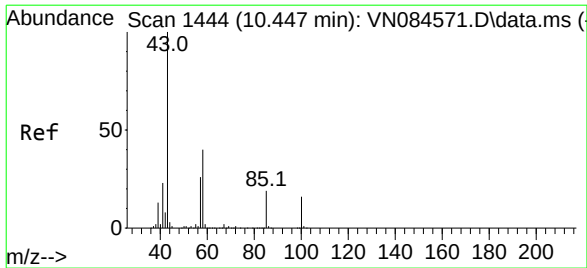
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#50
Toluene-d8
Concen: 45.790 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

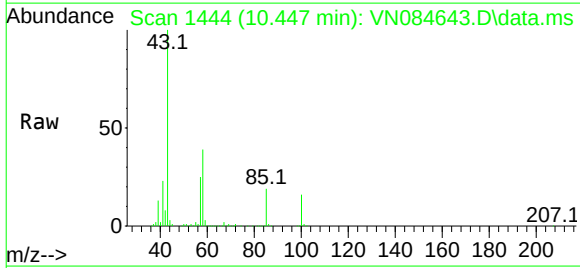
Tgt Ion: 98 Resp: 357498
Ion Ratio Lower Upper
98 100
100 65.5 52.7 79.1





#51
4-Methyl-2-Pentanone
Concen: 272.575 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

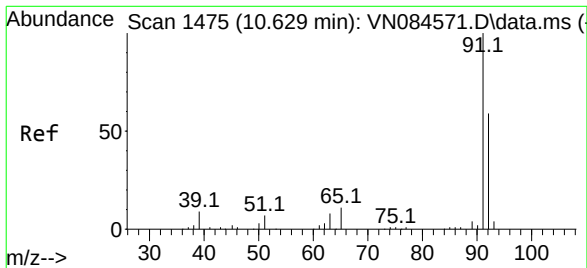
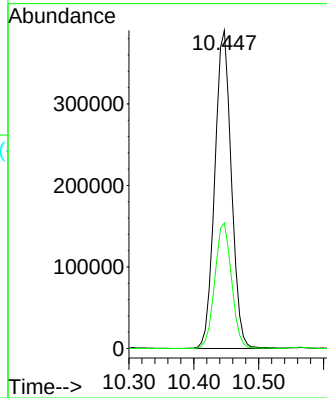
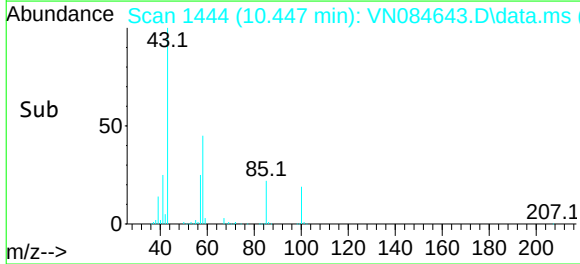
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 43 Resp: 692985
Ion Ratio Lower Upper
43 100
58 39.9 31.6 47.4

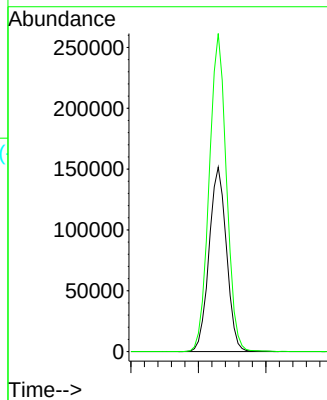
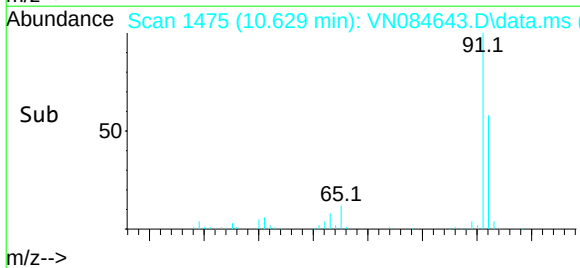
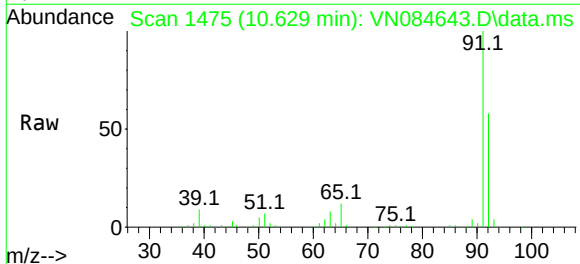
Manual Integrations
APPROVED

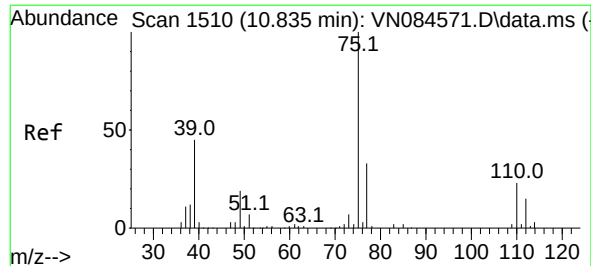
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#52
Toluene
Concen: 49.183 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

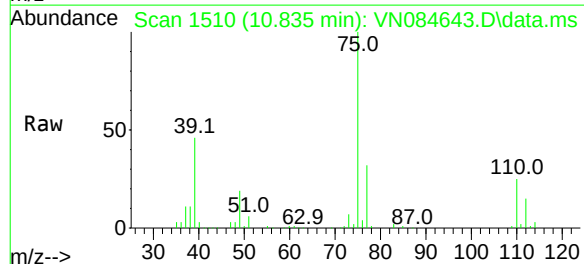
Tgt Ion: 92 Resp: 271534
Ion Ratio Lower Upper
92 100
91 171.1 137.3 205.9





#53
t-1,3-Dichloropropene
Concen: 46.260 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

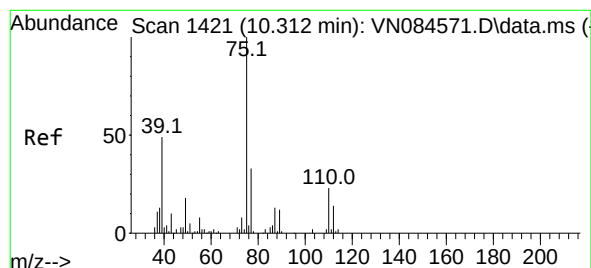
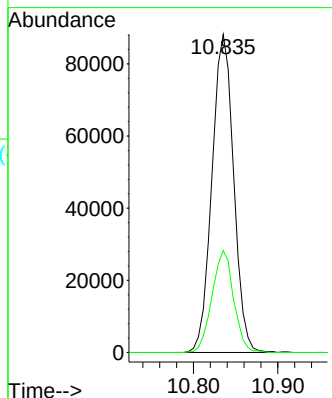
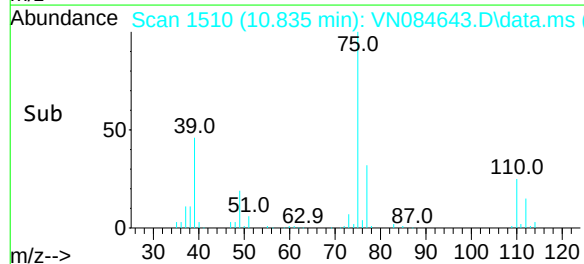
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 75 Resp: 157718
Ion Ratio Lower Upper
75 100
77 32.0 25.4 38.0

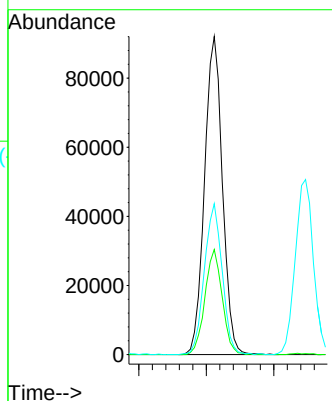
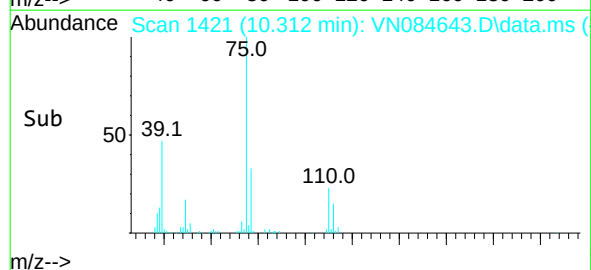
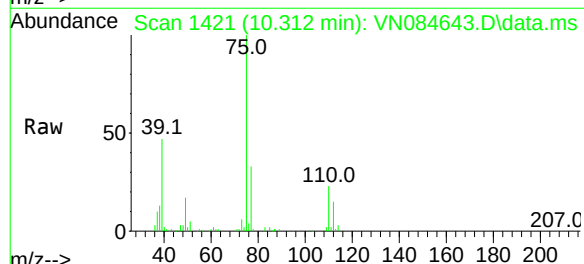
Manual Integrations
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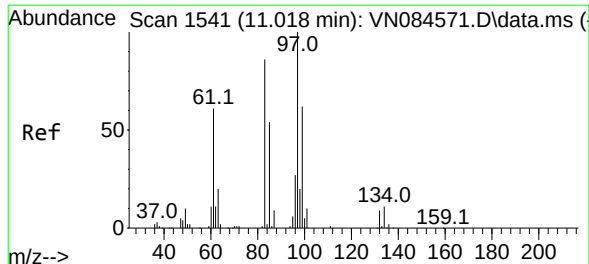
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#54
cis-1,3-Dichloropropene
Concen: 46.972 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

Tgt Ion: 75 Resp: 169499
Ion Ratio Lower Upper
75 100
77 33.0 24.2 36.2
39 47.4 38.7 58.1





#55

1,1,2-Trichloroethane

Concen: 49.336 ug/l

RT: 11.018 min Scan# 1515

Delta R.T. 0.006 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 97 Resp: 102600

Ion Ratio Lower Upper

97 100

83 83.9 71.0 106.4

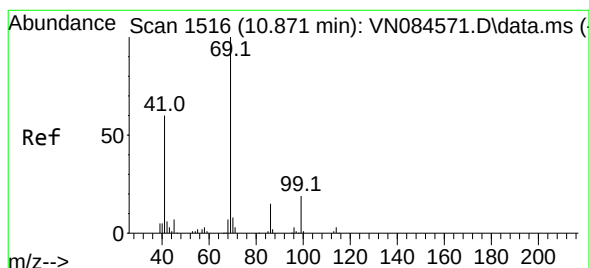
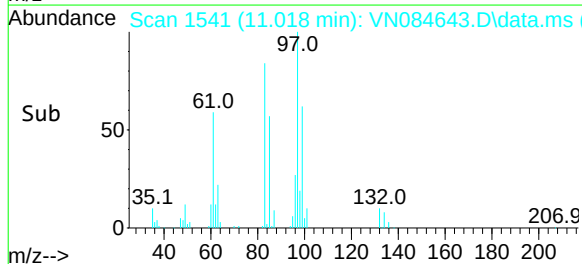
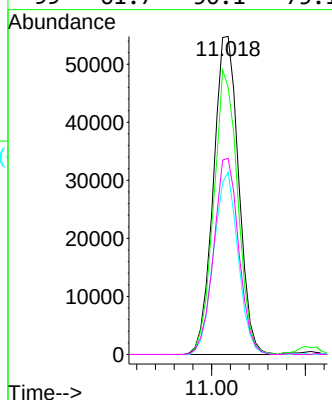
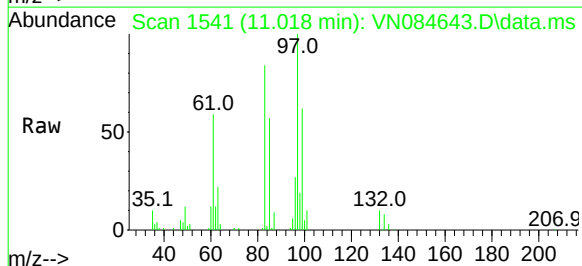
85 57.3 41.7 62.5

99 61.7 50.1 75.1

Manual Integrations

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Reviewed By :Mahesh Dadoda 11/04/2024
 Supervised By :Semsettin Yesilyurt 11/04/2024



#56

Ethyl methacrylate

Concen: 55.207 ug/l

RT: 10.876 min Scan# 1517

Delta R.T. 0.006 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

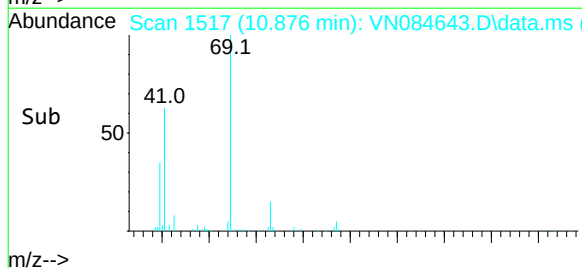
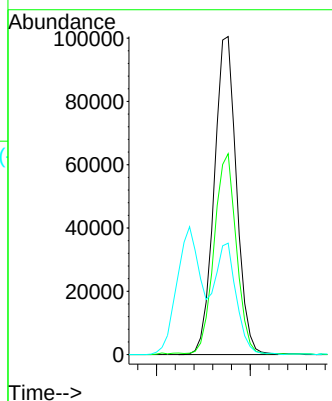
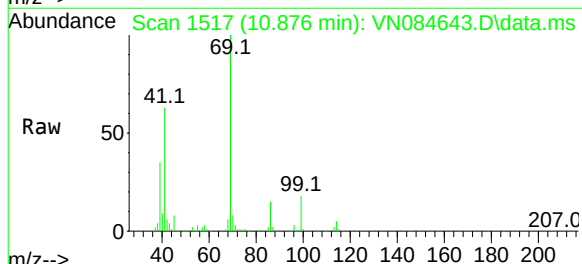
Tgt Ion: 69 Resp: 166069

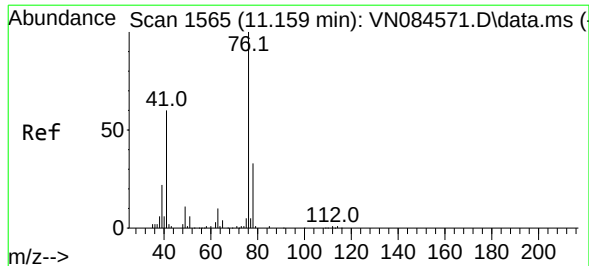
Ion Ratio Lower Upper

69 100

41 64.0 53.3 79.9

39 34.5 28.8 43.2





#57

1,3-Dichloropropane

Concen: 48.563 ug/l

RT: 11.165 min Scan# 1565

Delta R.T. 0.006 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 76 Resp: 173329

Ion Ratio Lower Upper

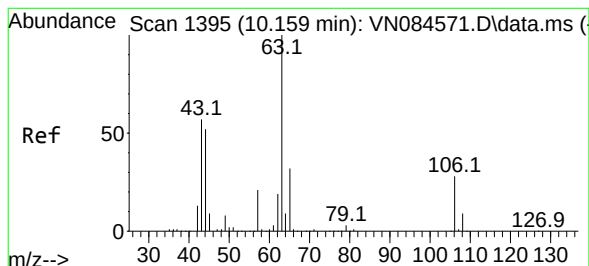
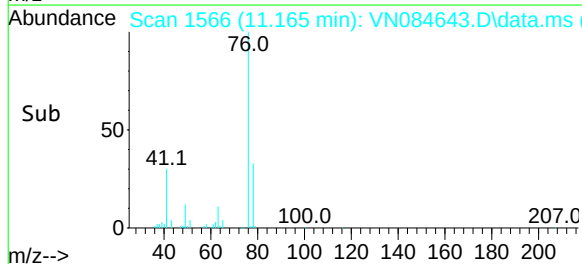
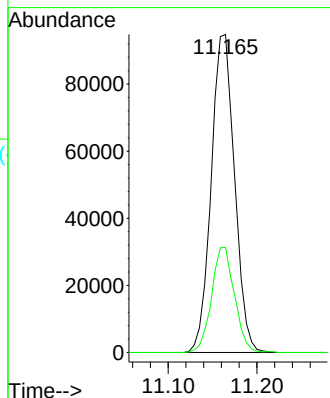
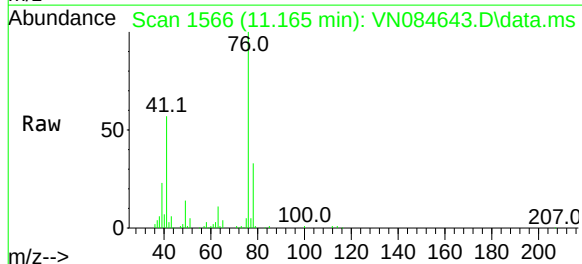
76 100

78 32.5 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#58

2-Chloroethyl Vinyl ether

Concen: 304.914 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN084643.D

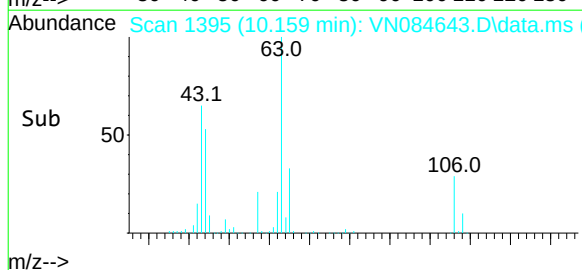
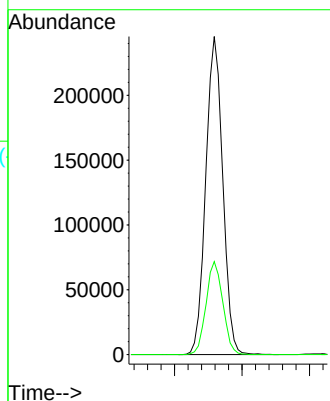
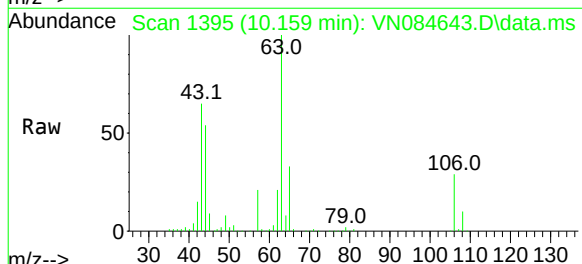
Acq: 01 Nov 2024 17:07

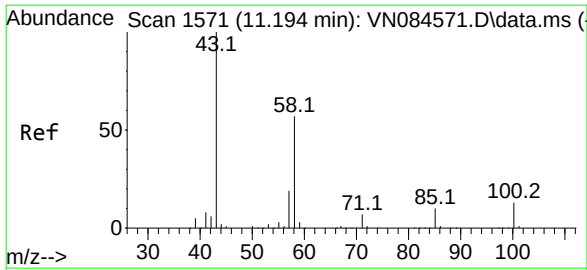
Tgt Ion: 63 Resp: 429197

Ion Ratio Lower Upper

63 100

106 28.8 21.8 32.6





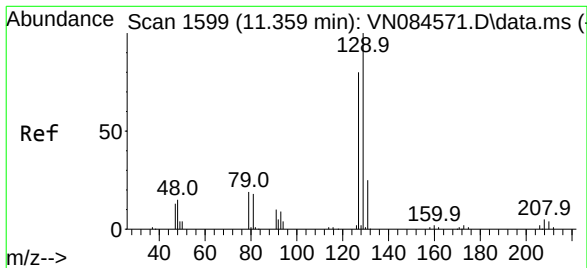
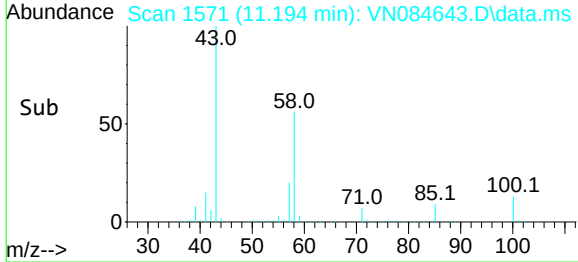
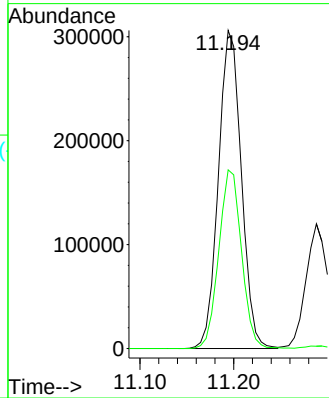
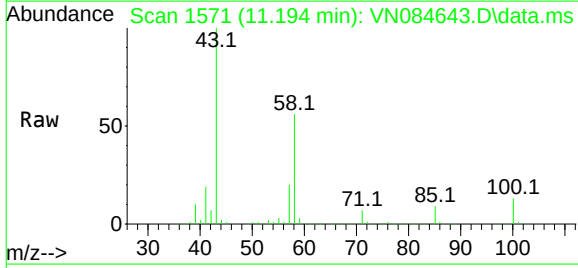
#59
2-Hexanone
Concen: 280.493 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 519065
Ion Ratio Lower Upper
43 100
58 55.7 27.3 81.8

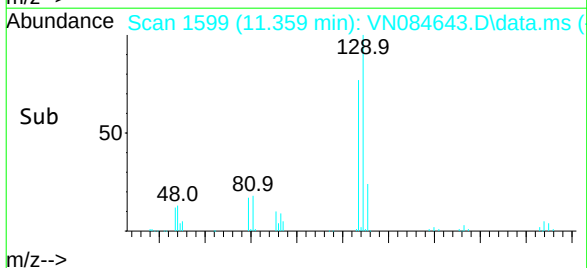
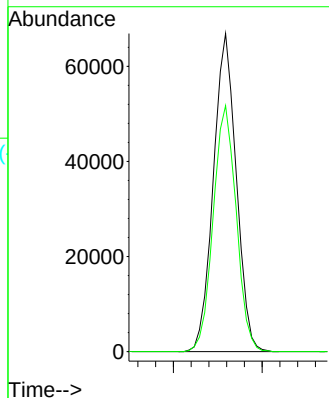
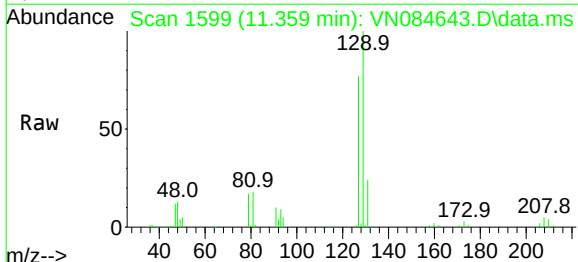
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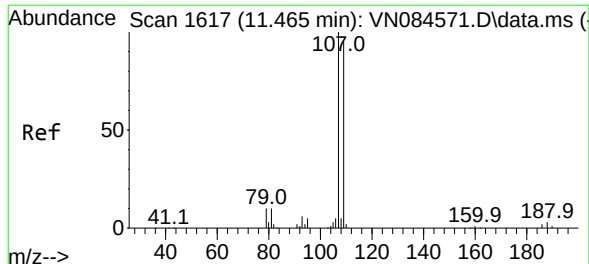
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#60
Dibromochloromethane
Concen: 50.589 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

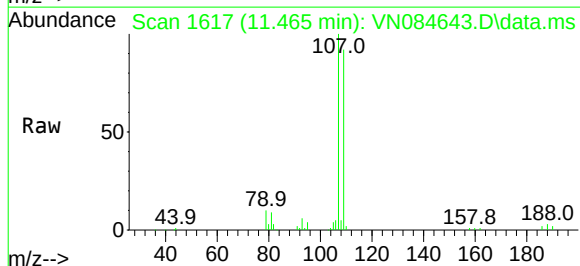
Tgt Ion:129 Resp: 119904
Ion Ratio Lower Upper
129 100
127 77.6 38.3 114.9





#61
1,2-Dibromoethane
Concen: 47.989 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

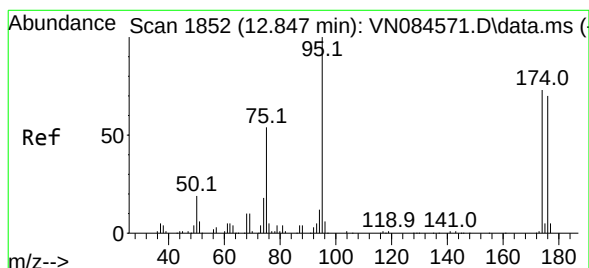
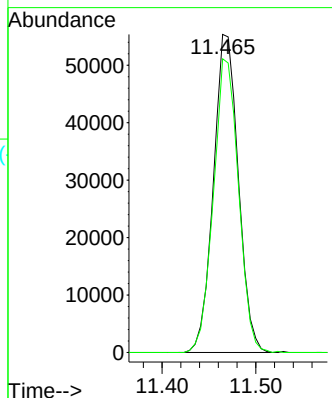
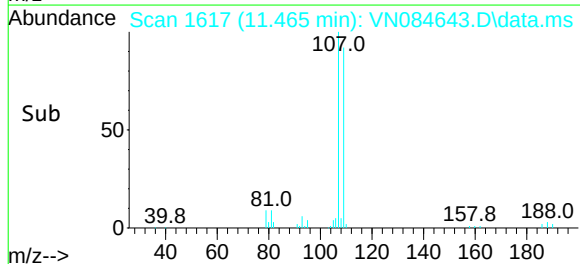
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 107 Resp: 102199
Ion Ratio Lower Upper
107 100
109 93.1 75.4 113.0

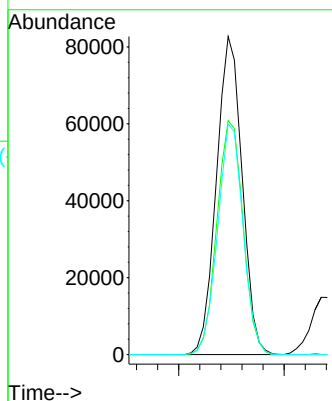
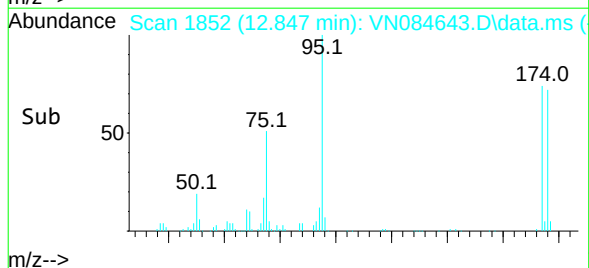
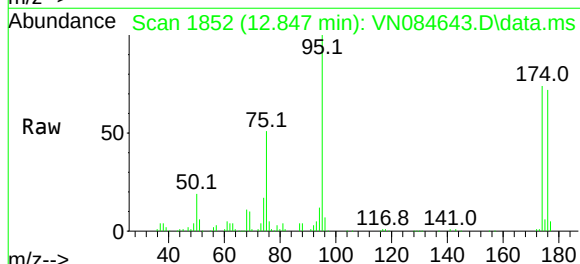
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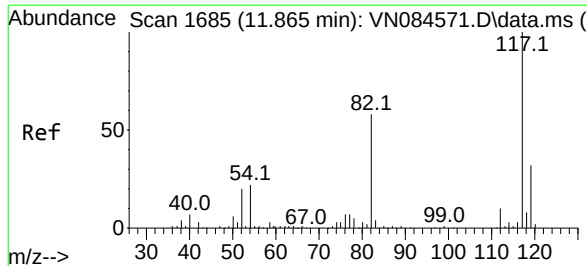
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#62
4-Bromofluorobenzene
Concen: 47.985 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

Tgt Ion: 95 Resp: 140014
Ion Ratio Lower Upper
95 100
174 74.8 0.0 145.2
176 72.1 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:117 Resp: 289884

Ion Ratio Lower Upper

117 100

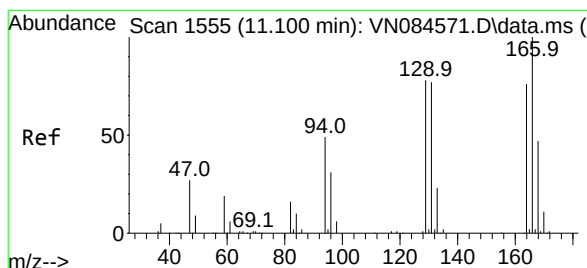
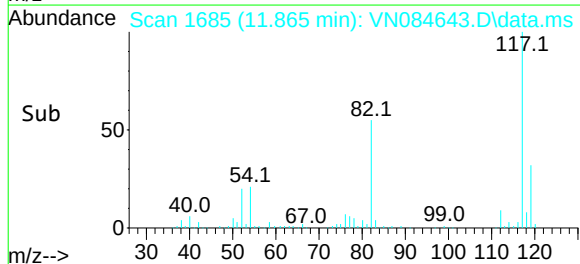
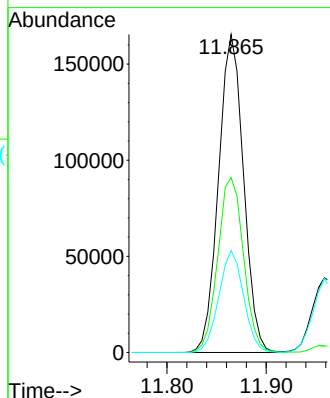
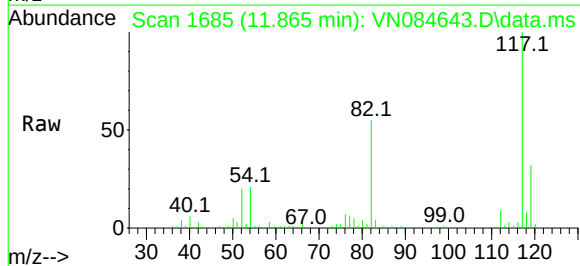
82 55.0 47.2 70.8

119 32.0 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#64

Tetrachloroethene

Concen: 45.036 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Tgt Ion:164 Resp: 86839

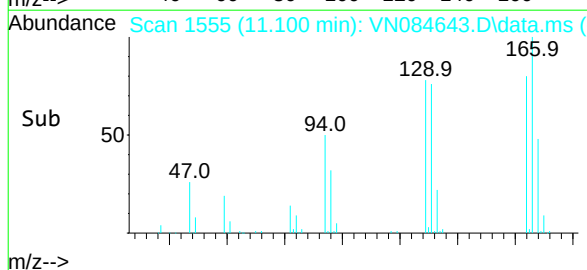
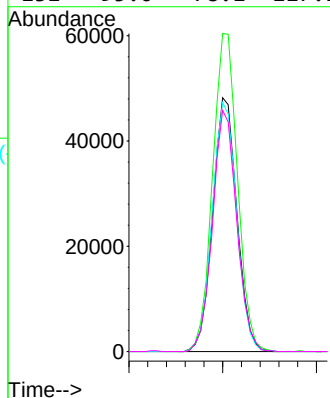
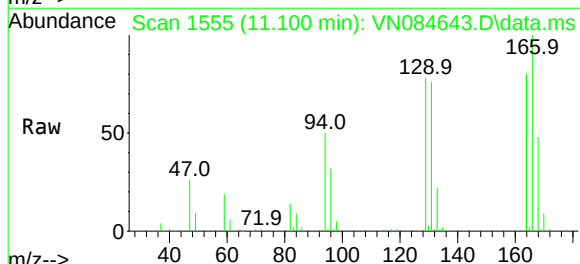
Ion Ratio Lower Upper

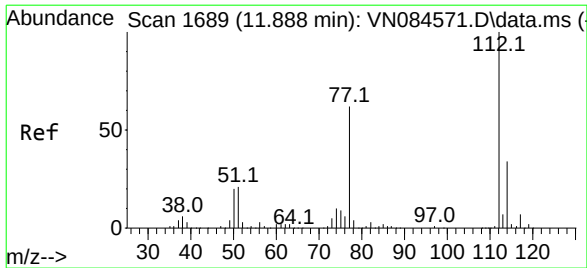
164 100

166 125.3 101.0 151.4

129 98.1 80.8 121.2

131 95.0 78.1 117.1





#65

Chlorobenzene

Concen: 44.610 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:112 Resp: 289307

Ion Ratio Lower Upper

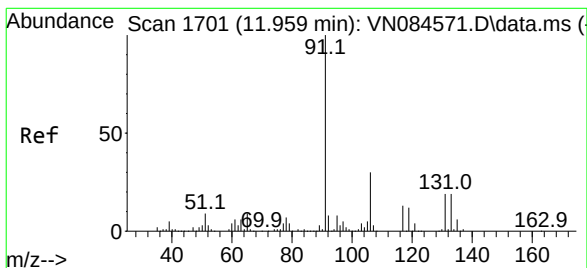
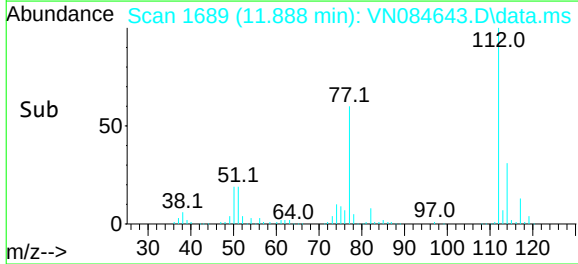
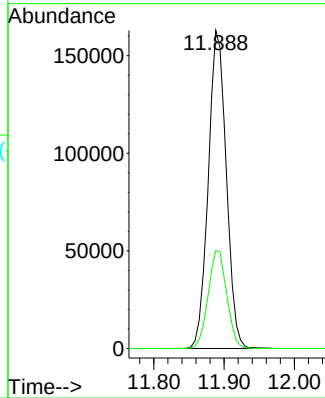
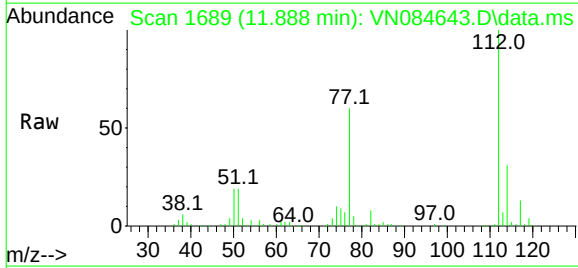
112 100

114 30.7 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
 Supervised By :Semsettin Yesilyurt 11/04/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 45.897 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

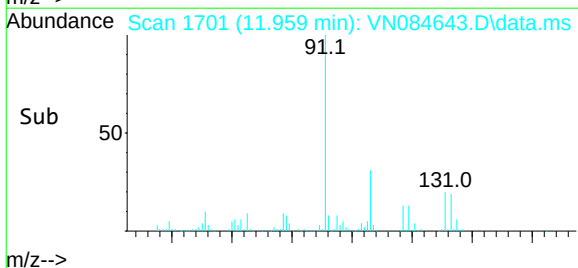
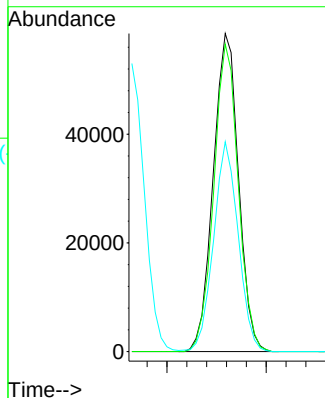
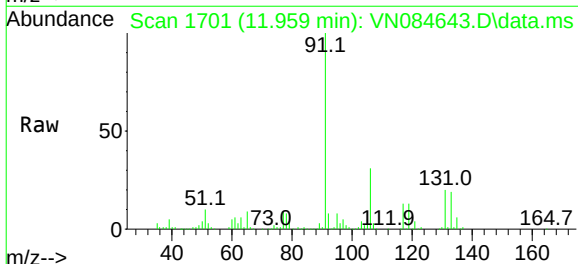
Tgt Ion:131 Resp: 103534

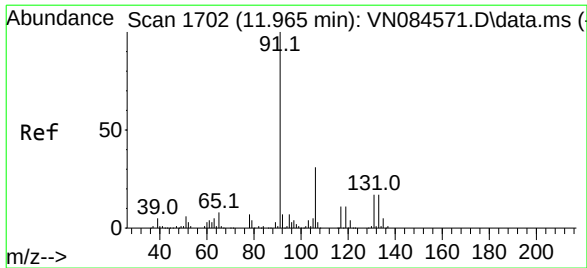
Ion Ratio Lower Upper

131 100

133 93.8 47.9 143.7

119 64.2 32.8 98.3





#67

Ethyl Benzene

Concen: 47.126 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.006 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 91 Resp: 510156

Ion Ratio Lower Upper

91 100

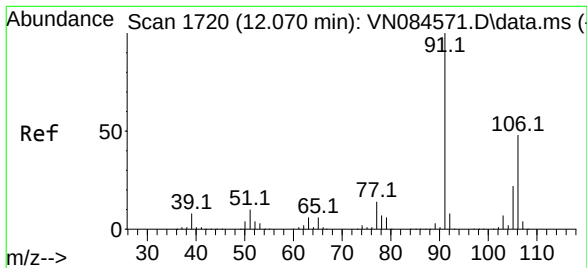
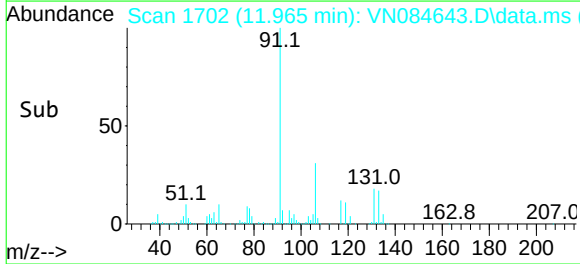
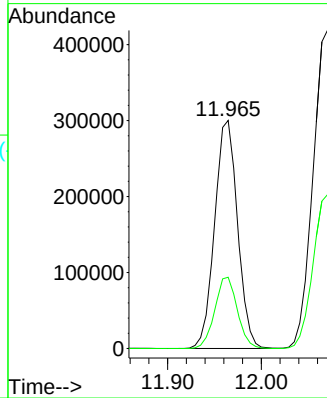
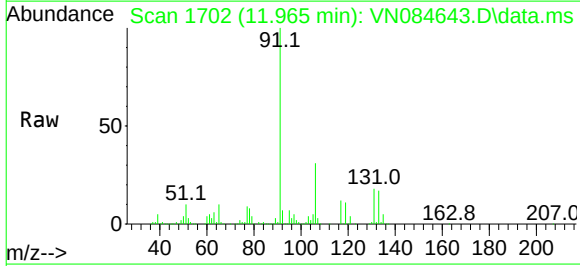
106 31.2 24.5 36.7

Manual Integrations

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Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024



#68

m/p-Xylenes

Concen: 96.376 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN084643.D

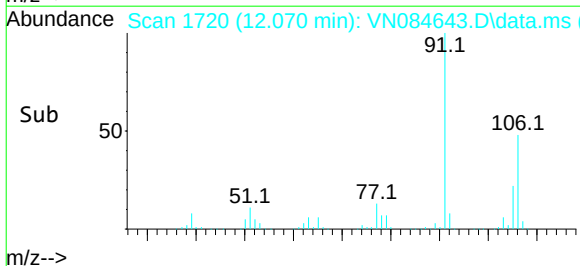
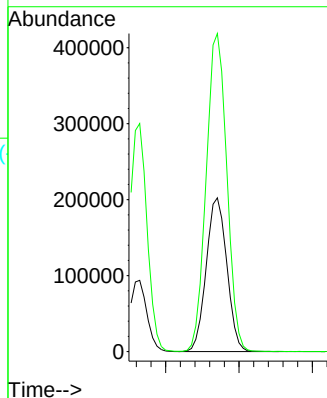
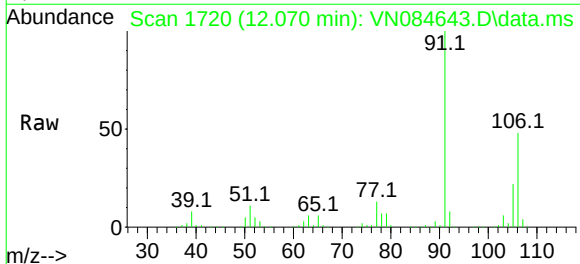
Acq: 01 Nov 2024 17:07

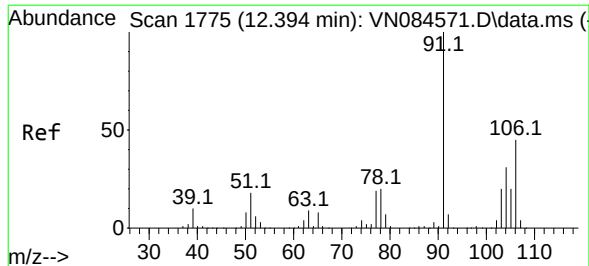
Tgt Ion:106 Resp: 394978

Ion Ratio Lower Upper

106 100

91 207.2 167.1 250.7





#69

o-Xylene

Concen: 49.151 ug/l

RT: 12.400 min Scan# 1775

Delta R.T. 0.006 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:106 Resp: 188437

Ion Ratio Lower Upper

106 100

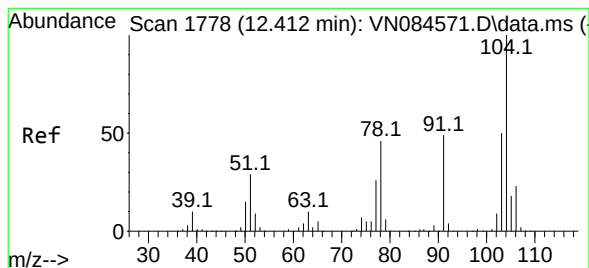
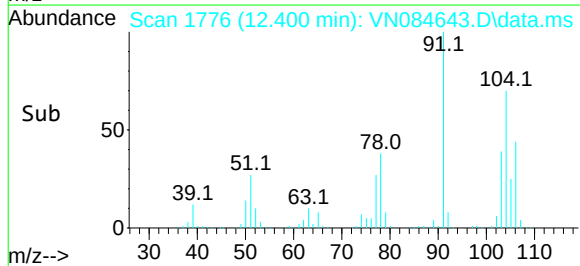
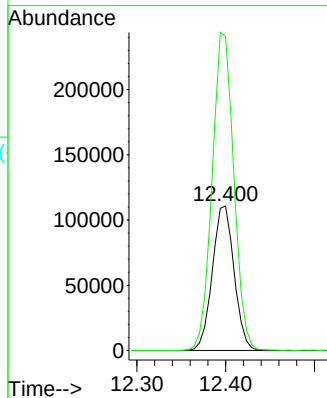
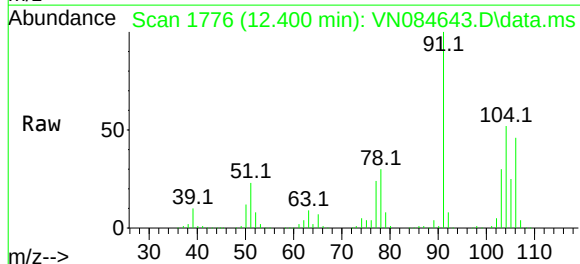
91 219.6 110.2 330.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024



#70

Styrene

Concen: 49.400 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

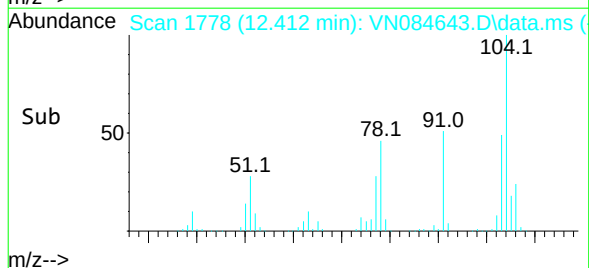
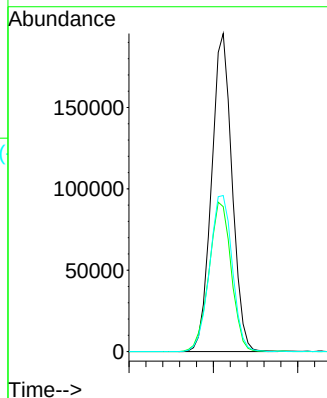
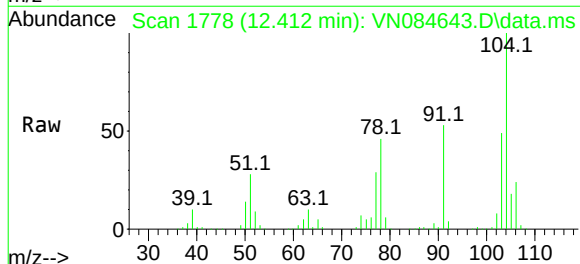
Tgt Ion:104 Resp: 330384

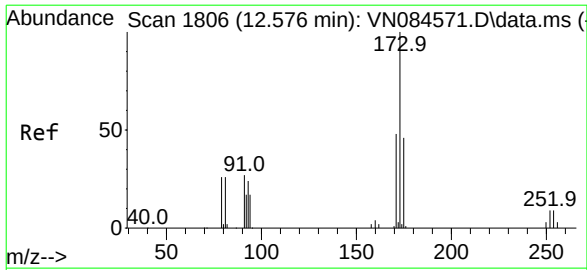
Ion Ratio Lower Upper

104 100

78 51.0 42.7 64.1

103 54.4 43.6 65.4





#71

Bromoform

Concen: 48.752 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

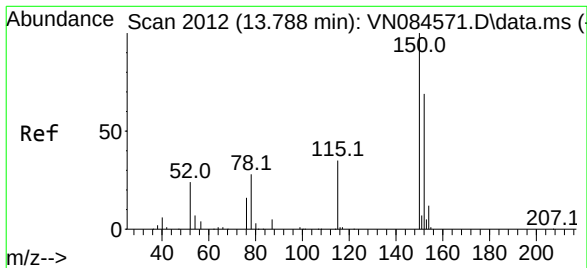
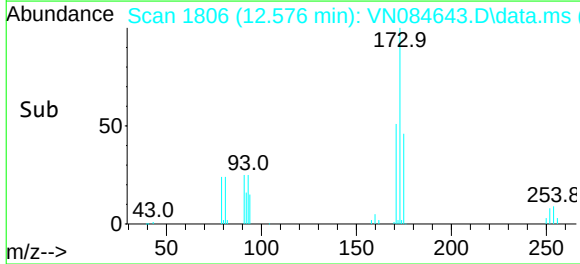
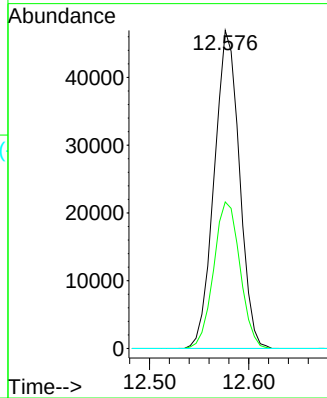
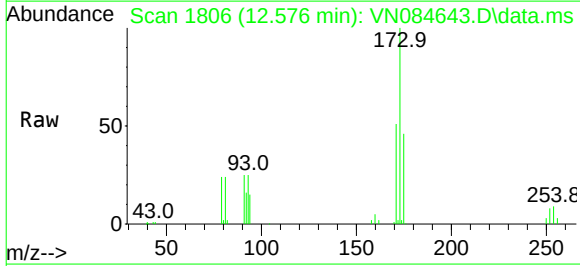
VSTDCCC050EC

Tgt Ion:	173	Resp:	82751
Ion Ratio	Lower	Upper	
173	100		
175	48.2	23.5	70.6
254	0.0	0.0	0.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

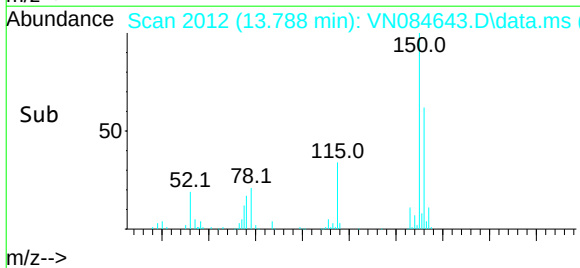
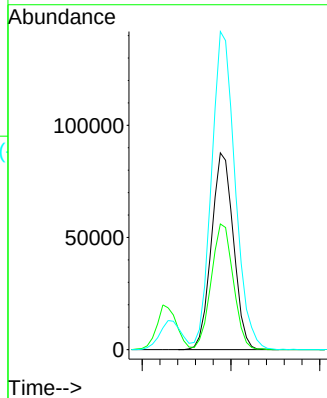
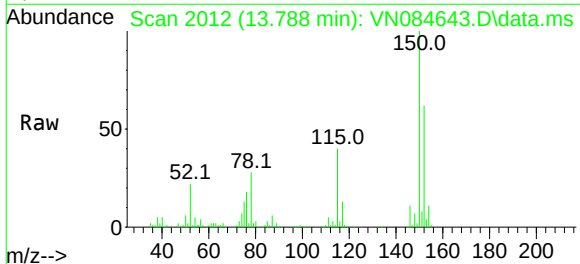
RT: 13.788 min Scan# 2012

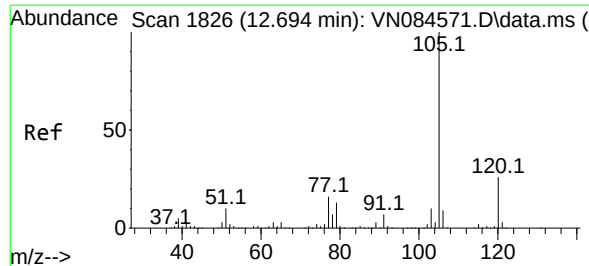
Delta R.T. 0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Tgt Ion:	152	Resp:	150905
Ion Ratio	Lower	Upper	
152	100		
115	64.0	31.3	93.9
150	173.8	0.0	349.8





#73

Isopropylbenzene

Concen: 45.098 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 105 Resp: 476917

Ion Ratio Lower Upper

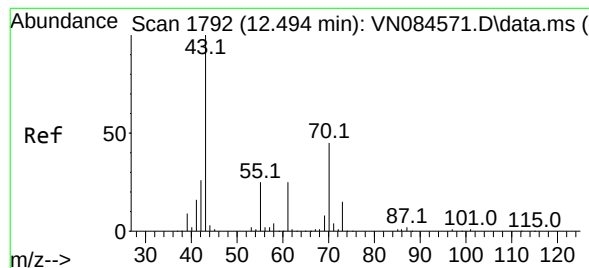
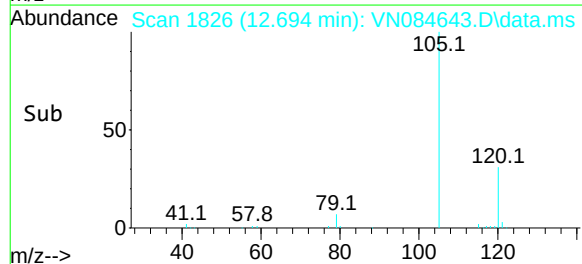
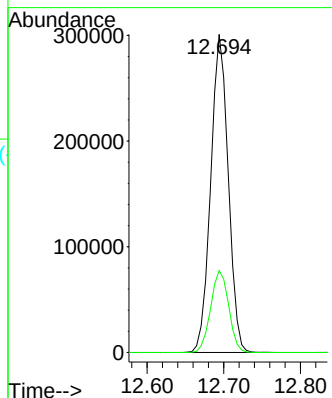
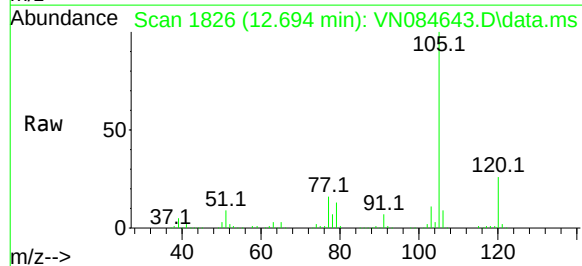
105 100

120 26.4 12.9 38.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#74

N-ethyl acetate

Concen: 46.982 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Tgt Ion: 43 Resp: 211463

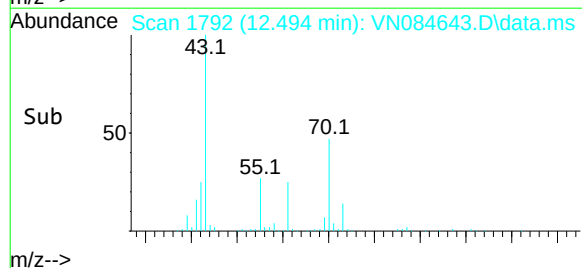
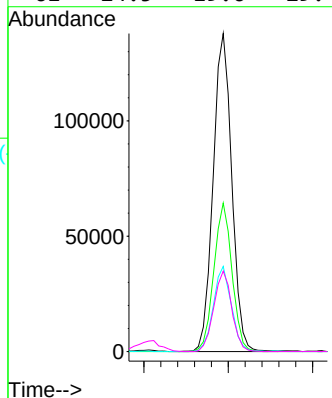
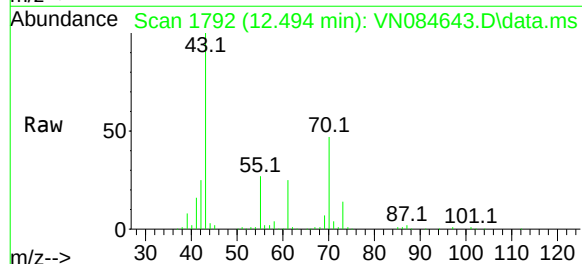
Ion Ratio Lower Upper

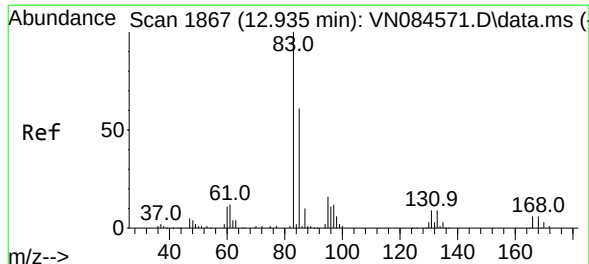
43 100

70 45.4 34.4 51.6

55 26.0 19.6 29.4

61 24.5 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 43.570 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

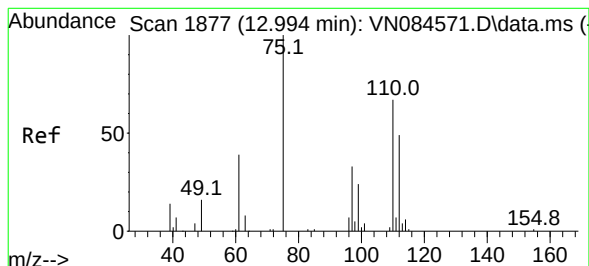
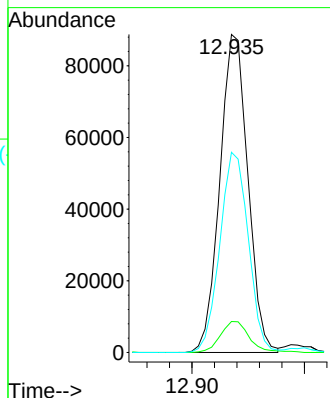
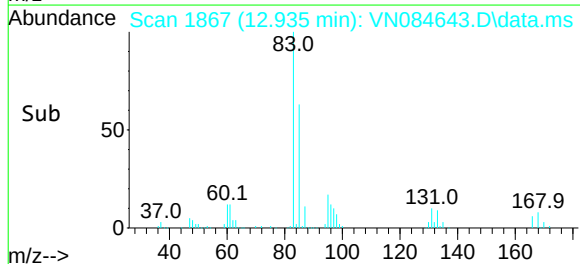
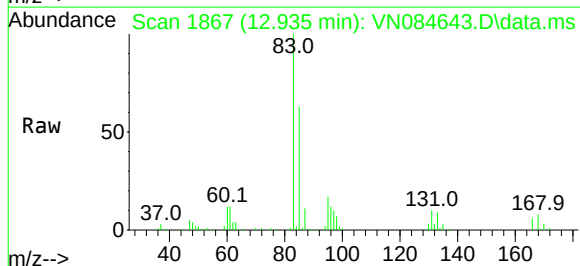
VSTDCCC050EC

Tgt Ion:	83	Resp:	153793
Ion	Ratio	Lower	Upper
83	100		
131	10.1	4.9	14.7
85	63.8	31.9	95.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#76

1,2,3-Trichloropropane

Concen: 47.712 ug/l m

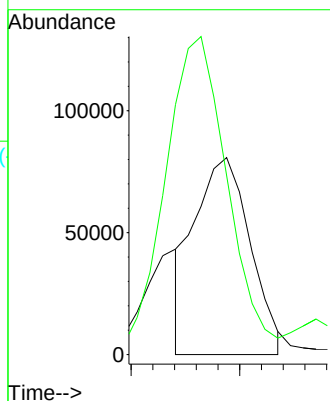
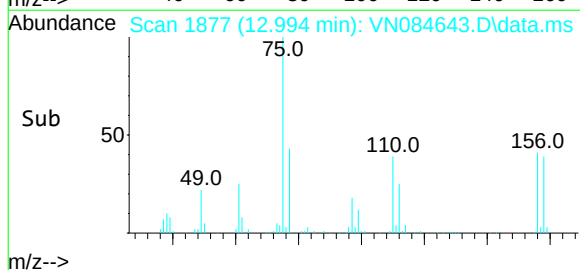
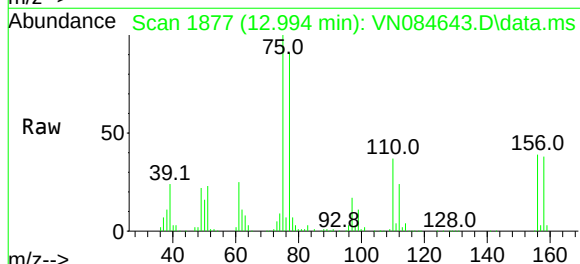
RT: 12.994 min Scan# 1877

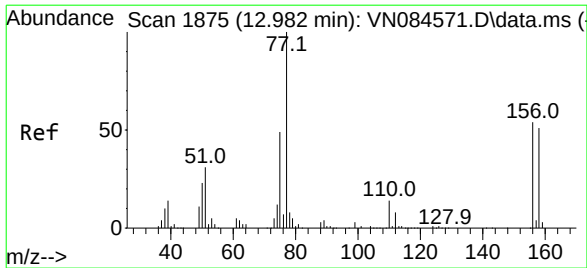
Delta R.T. 0.006 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Tgt Ion:	75	Resp:	143924
Ion	Ratio	Lower	Upper
75	100		
77	180.8	96.9	290.7





#77

Bromobenzene

Concen: 41.565 ug/l

RT: 12.976 min Scan# 1875

Delta R.T. -0.006 min

Lab File: VN084643.D

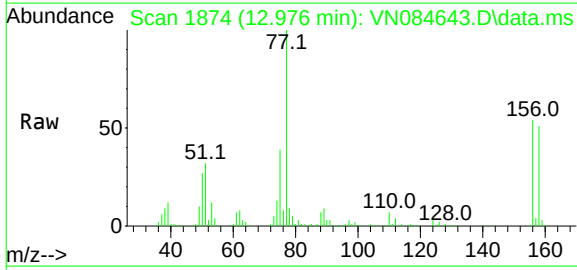
Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC



Tgt Ion: 156 Resp: 118165

Ion Ratio Lower Upper

156 100

77 220.2 115.1 345.3

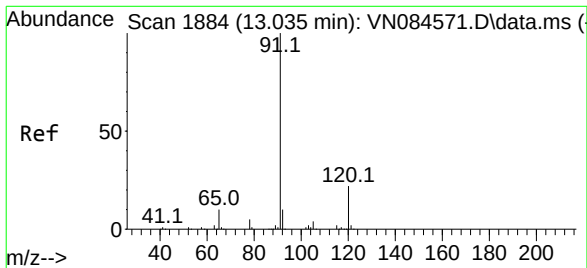
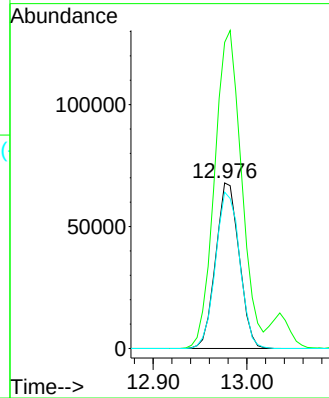
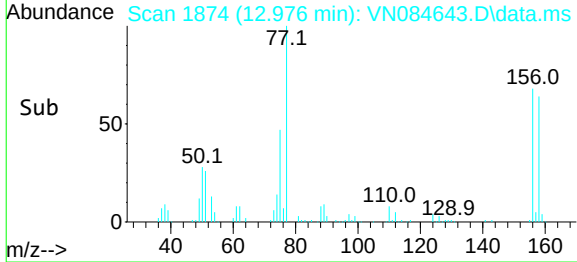
158 97.4 48.9 146.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024



#78

n-propylbenzene

Concen: 45.341 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.000 min

Lab File: VN084643.D

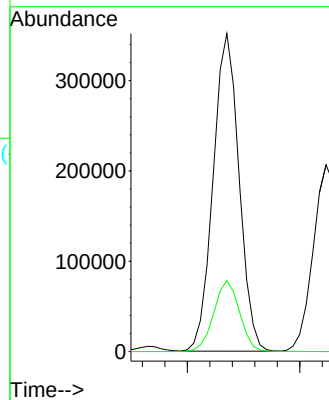
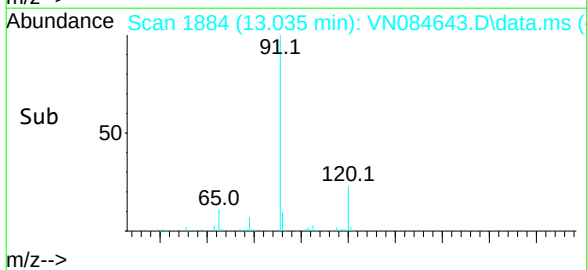
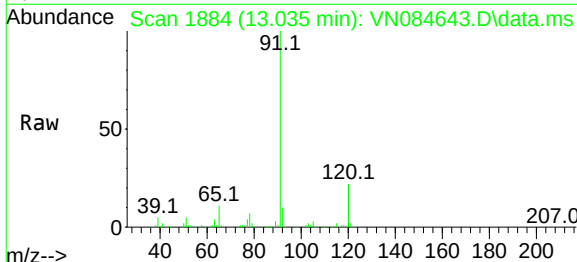
Acq: 01 Nov 2024 17:07

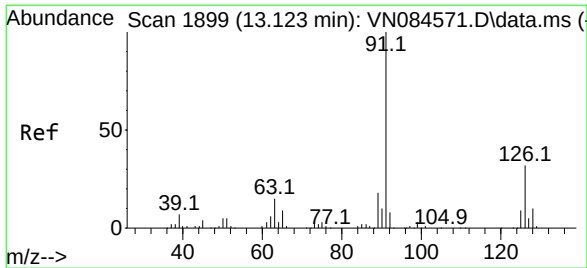
Tgt Ion: 91 Resp: 561871

Ion Ratio Lower Upper

91 100

120 22.2 10.8 32.4





#79

2-Chlorotoluene

Concen: 43.676 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 91 Resp: 353652

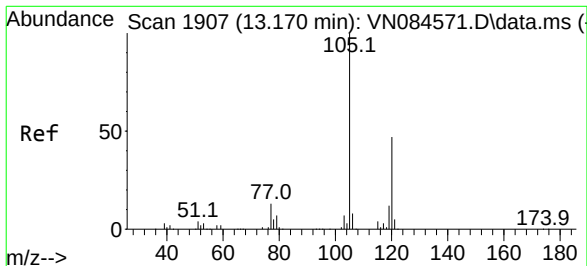
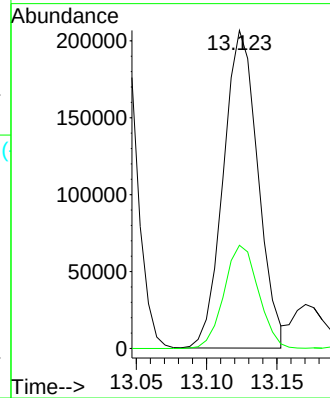
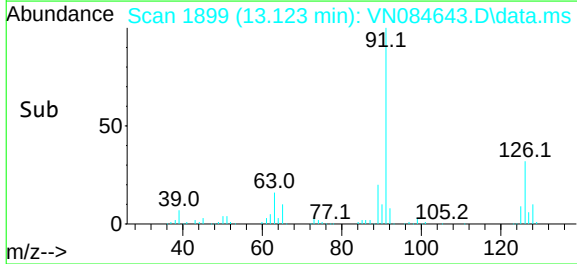
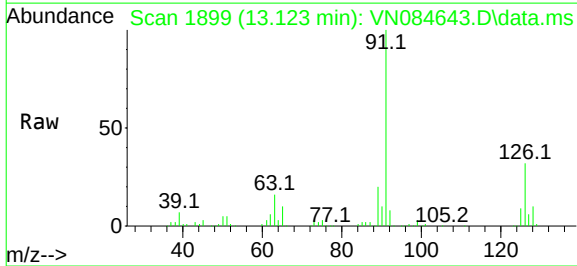
Ion Ratio Lower Upper

91 100

126 32.3 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#80

1,3,5-Trimethylbenzene

Concen: 47.386 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN084643.D

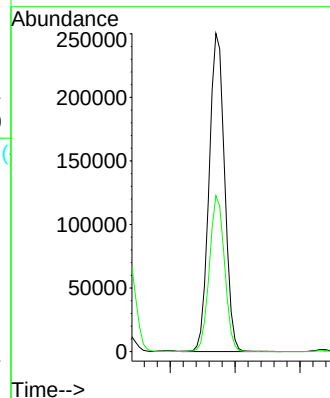
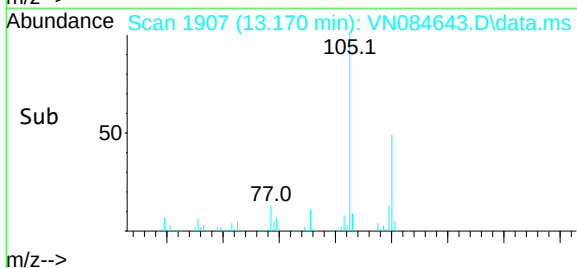
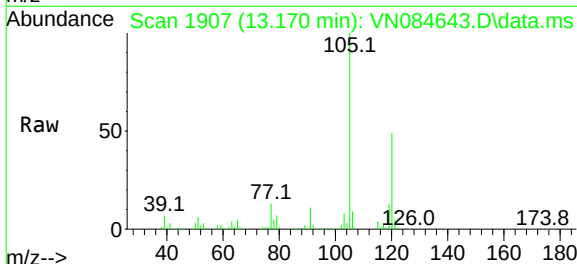
Acq: 01 Nov 2024 17:07

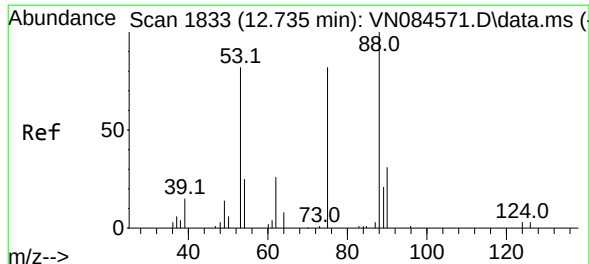
Tgt Ion:105 Resp: 415331

Ion Ratio Lower Upper

105 100

120 47.9 23.7 71.1





#81

trans-1,4-Dichloro-2-butene

Concen: 43.343 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN084643.D

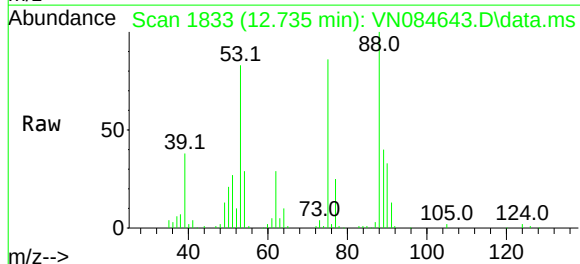
Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

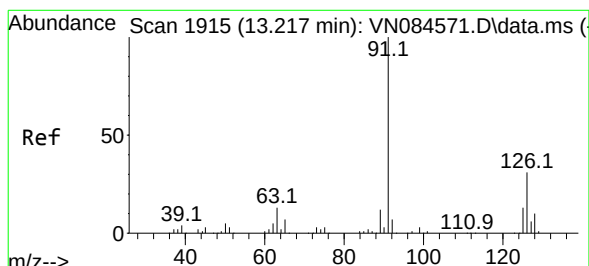
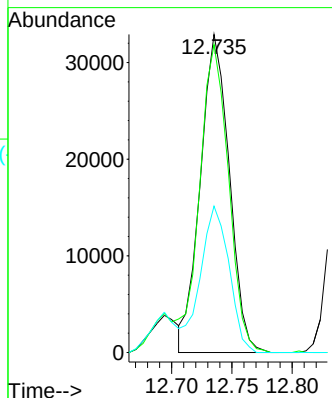
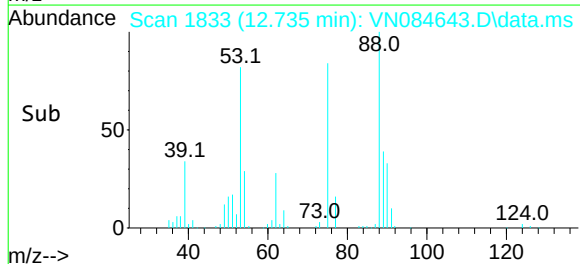
VSTDCCC050EC



Tgt Ion:	75	Resp:	55111
Ion	Ratio	Lower	Upper
75	100		
53	98.1	78.0	117.0
89	45.8	35.5	53.3

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#82

4-Chlorotoluene

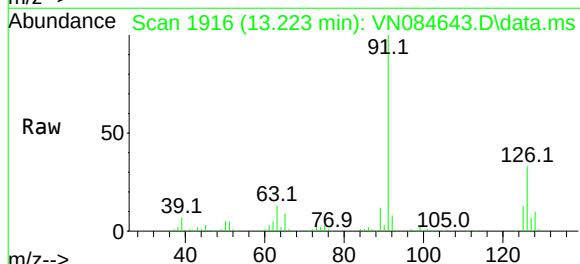
Concen: 42.079 ug/l

RT: 13.223 min Scan# 1916

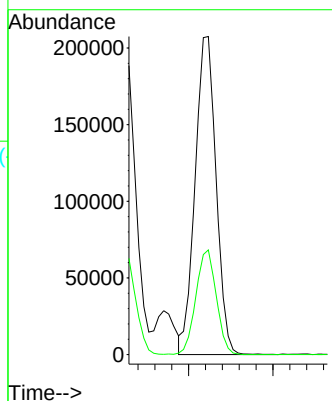
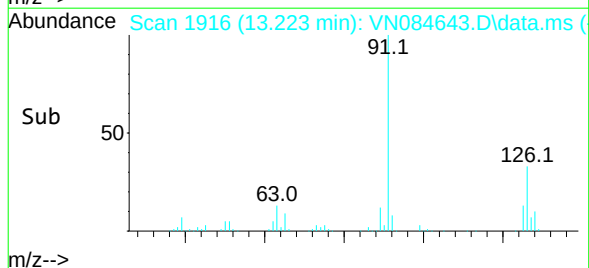
Delta R.T. 0.006 min

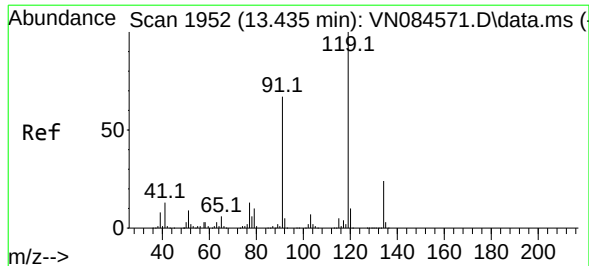
Lab File: VN084643.D

Acq: 01 Nov 2024 17:07



Tgt Ion:	91	Resp:	358576
Ion	Ratio	Lower	Upper
91	100		
126	32.0	15.7	47.1





#83

tert-Butylbenzene

Concen: 48.297 ug/l

RT: 13.441 min Scan# 1952

Delta R.T. 0.006 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:119 Resp: 350343

Ion Ratio Lower Upper

119 100

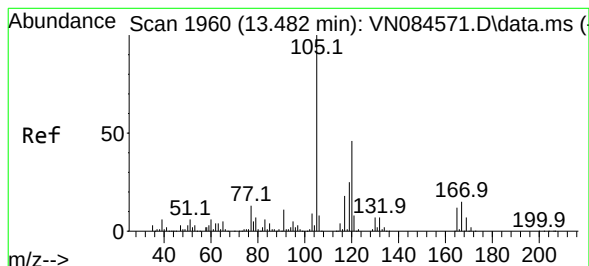
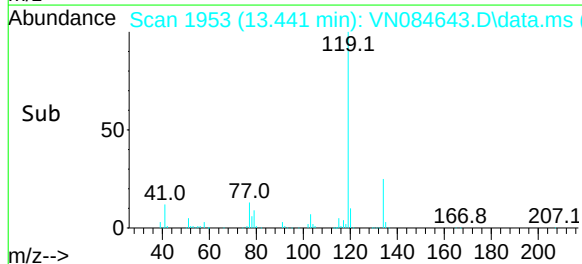
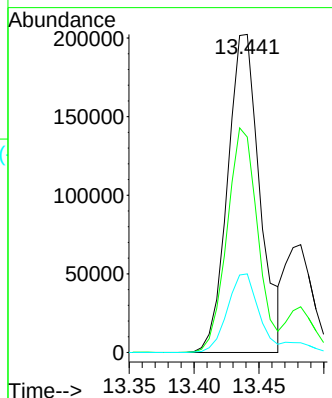
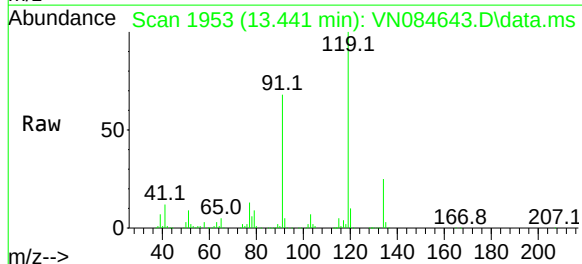
91 67.3 34.1 102.3

134 26.7 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
 Supervised By :Semsettin Yesilyurt 11/04/2024



#84

1,2,4-Trimethylbenzene

Concen: 46.843 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN084643.D

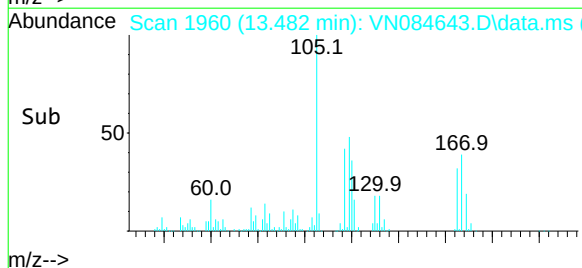
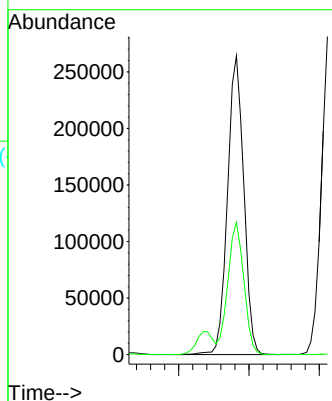
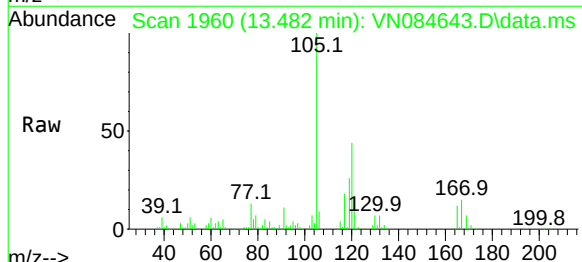
Acq: 01 Nov 2024 17:07

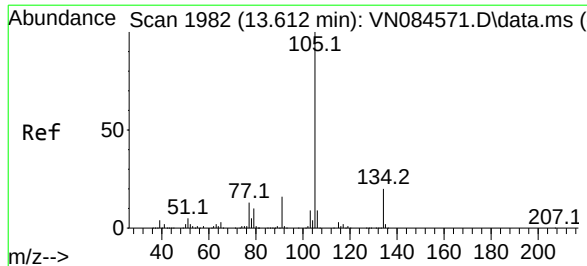
Tgt Ion:105 Resp: 423745

Ion Ratio Lower Upper

105 100

120 43.7 22.3 66.8





#85

sec-Butylbenzene

Concen: 46.404 ug/l

RT: 13.617 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:105 Resp: 475480

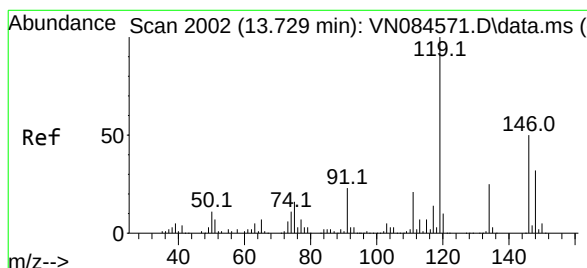
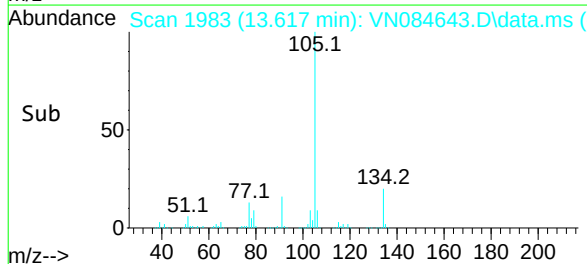
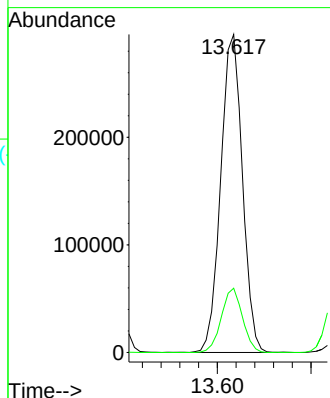
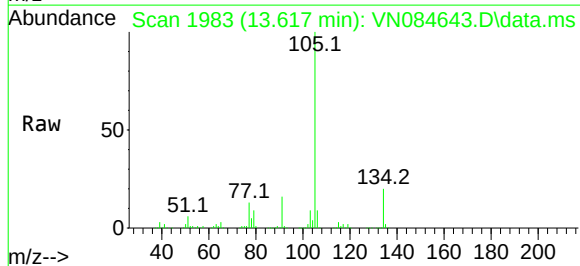
Ion Ratio Lower Upper

105 100

134 19.6 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#86

p-Isopropyltoluene

Concen: 47.960 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

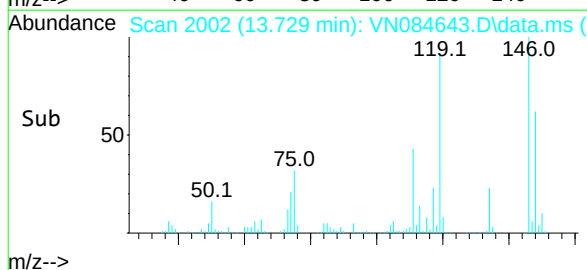
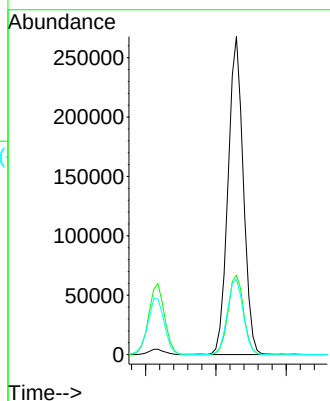
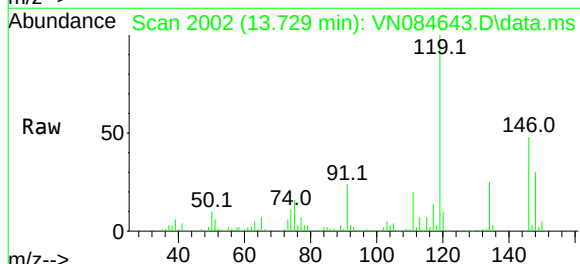
Tgt Ion:119 Resp: 403030

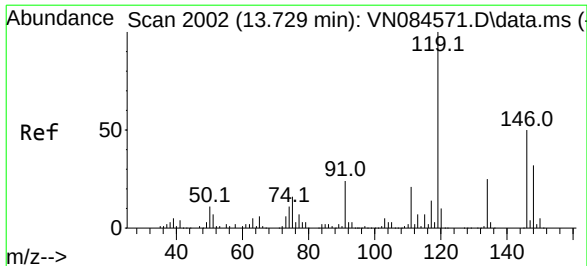
Ion Ratio Lower Upper

119 100

134 25.5 12.6 37.8

91 24.9 12.4 37.2





#87

1,3-Dichlorobenzene

Concen: 40.052 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:146 Resp: 222216

Ion Ratio Lower Upper

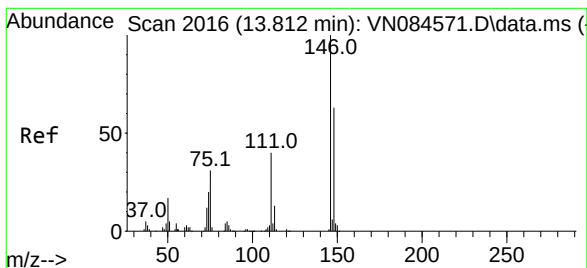
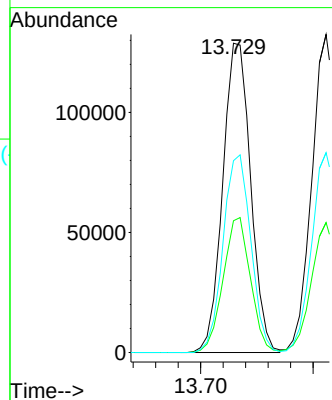
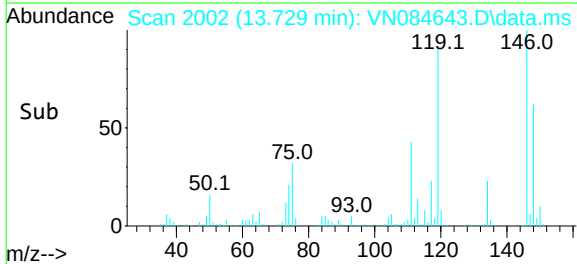
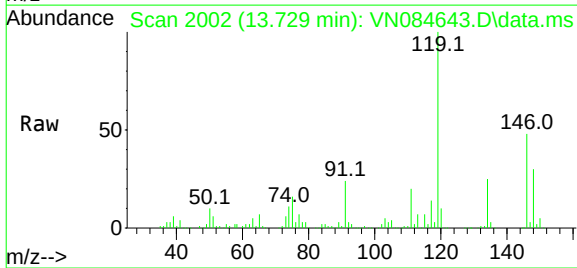
146 100

111 42.7 21.8 65.3

148 63.5 31.9 95.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#88

1,4-Dichlorobenzene

Concen: 43.485 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

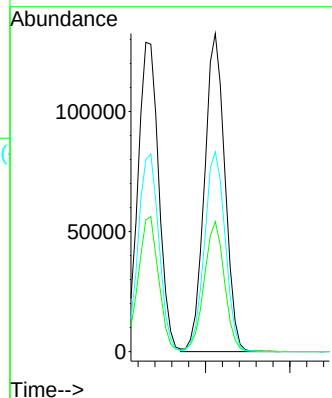
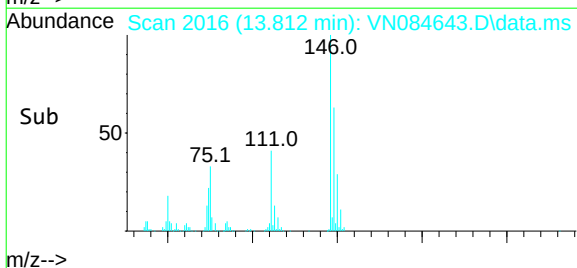
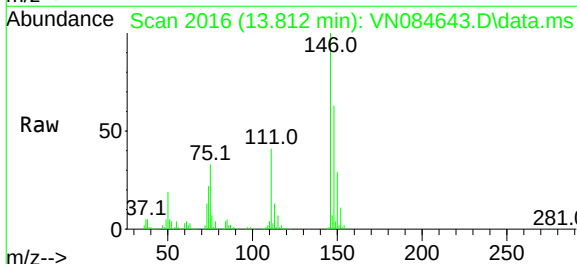
Tgt Ion:146 Resp: 222214

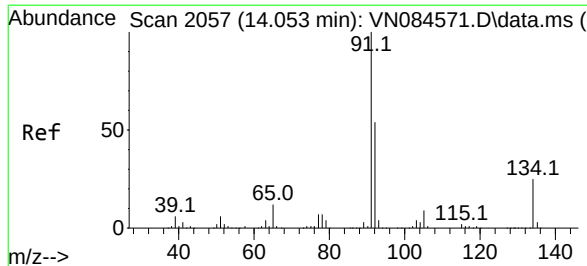
Ion Ratio Lower Upper

146 100

111 40.5 21.2 63.6

148 64.0 31.9 95.9





#89

n-Butylbenzene

Concen: 42.698 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

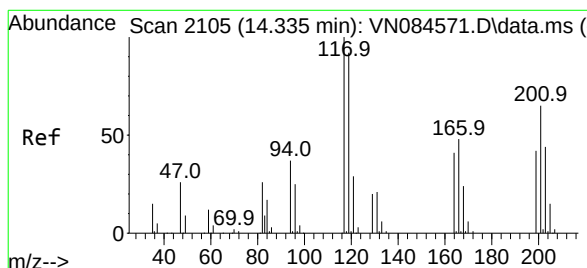
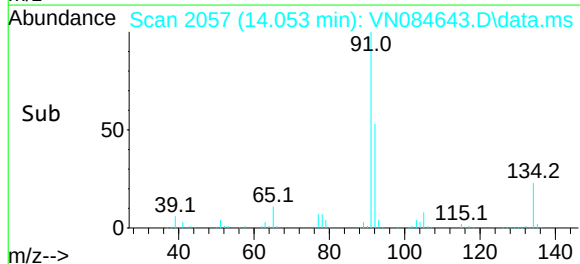
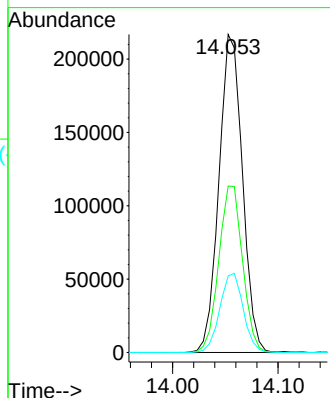
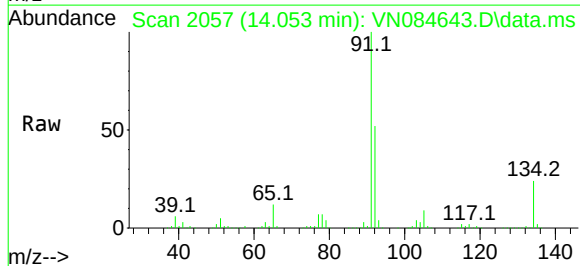
VSTDCCC050EC

Tgt Ion:	91	Resp:	335644
Ion Ratio	Lower	Upper	
91	100		
92	53.1	26.6	79.7
134	24.8	12.3	36.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#90

Hexachloroethane

Concen: 40.948 ug/l

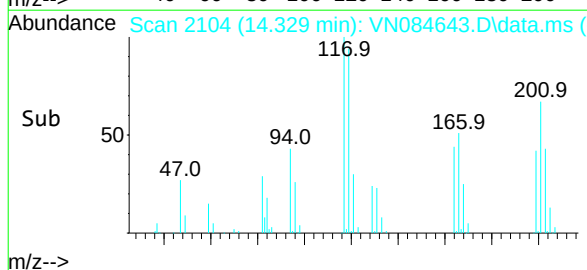
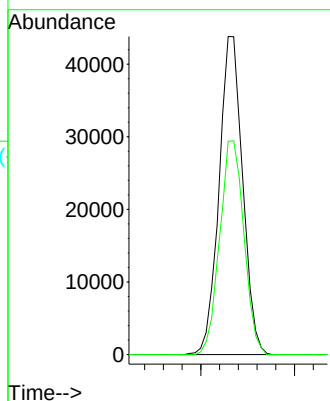
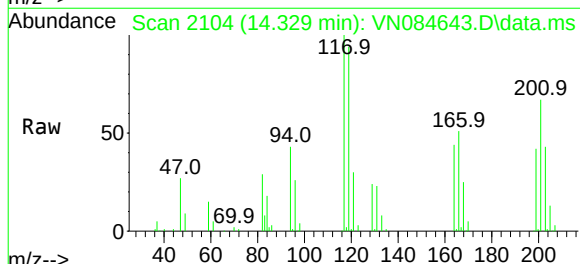
RT: 14.329 min Scan# 2104

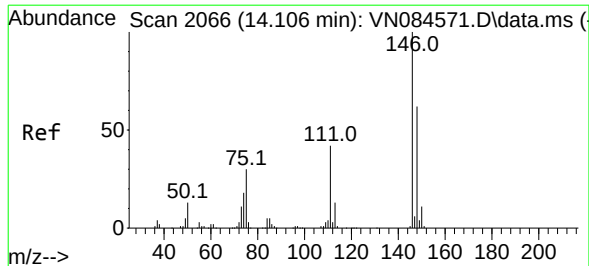
Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

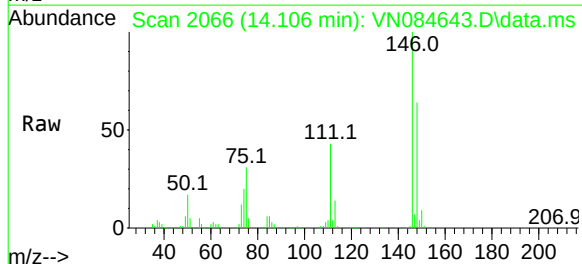
Tgt Ion:	117	Resp:	76738
Ion Ratio	Lower	Upper	
117	100		
201	68.9	34.4	103.2





#91
1,2-Dichlorobenzene
Concen: 41.428 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

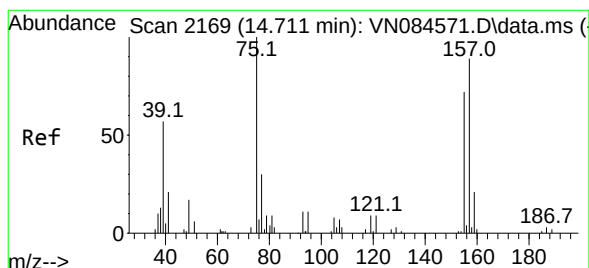
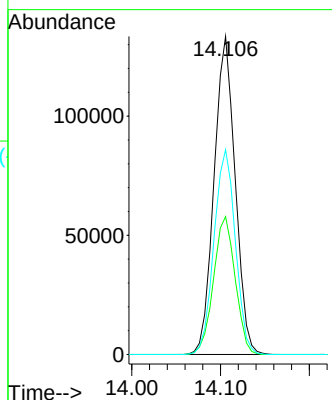
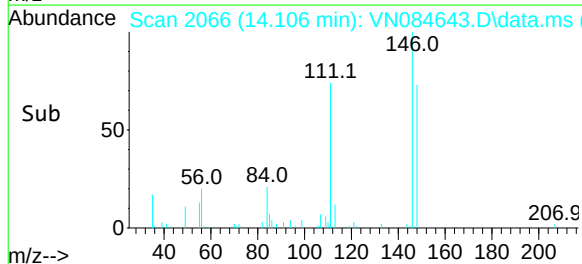
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion:146 Resp: 220867
Ion Ratio Lower Upper
146 100
111 44.4 22.0 66.0
148 65.1 32.1 96.3

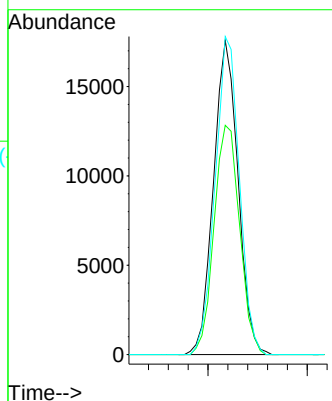
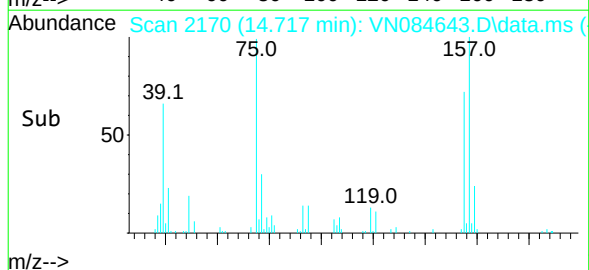
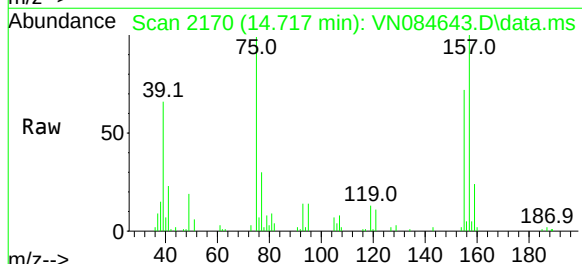
Manual Integrations
APPROVED

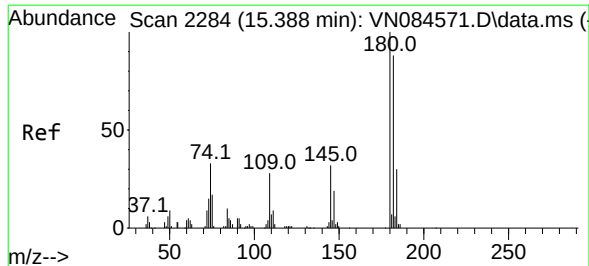
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 42.277 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN084643.D
Acq: 01 Nov 2024 17:07

Tgt Ion: 75 Resp: 30232
Ion Ratio Lower Upper
75 100
155 76.0 38.1 114.5
157 99.7 49.6 149.0





#93

1,2,4-Trichlorobenzene

Concen: 36.821 ug/l

RT: 15.394 min Scan# 2284

Delta R.T. 0.006 min

Lab File: VN084643.D

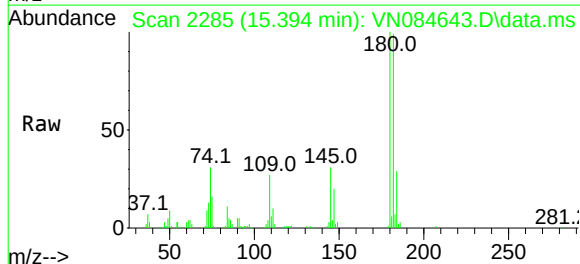
Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC



Tgt Ion:180 Resp: 107448

Ion Ratio Lower Upper

180 100

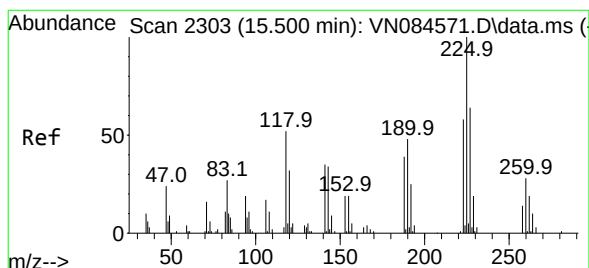
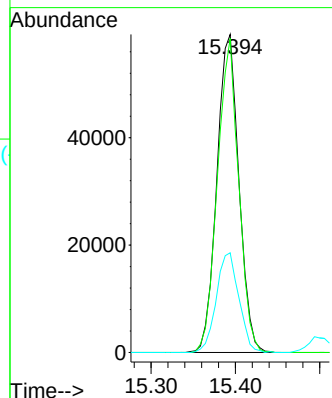
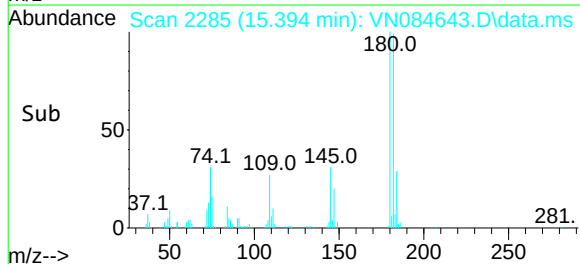
182 95.1 47.0 141.0

145 32.2 16.4 49.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#94

Hexachlorobutadiene

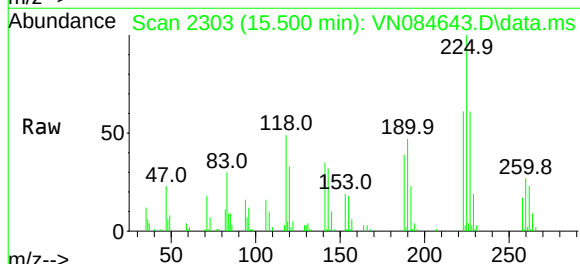
Concen: 38.689 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07



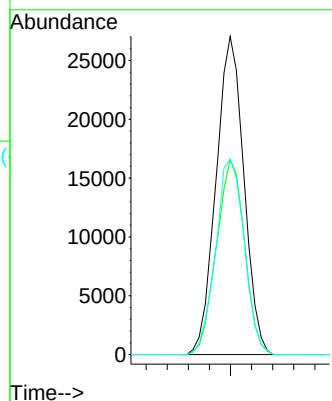
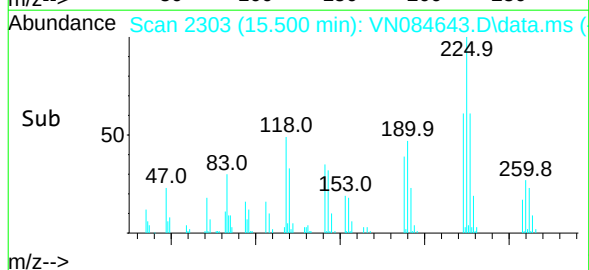
Tgt Ion:225 Resp: 49579

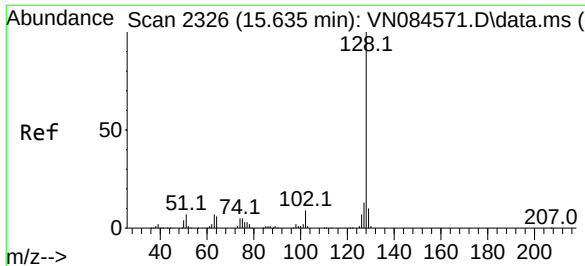
Ion Ratio Lower Upper

225 100

223 61.9 32.4 97.2

227 63.1 32.4 97.0





#95

Naphthalene

Concen: 40.533 ug/l

RT: 15.641 min Scan# 2326

Delta R.T. 0.006 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:128 Resp: 354038

Ion Ratio Lower Upper

128 100

127 13.0 10.5 15.7

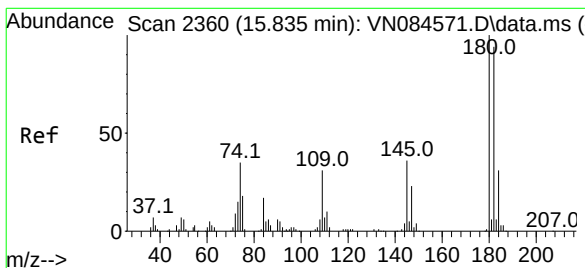
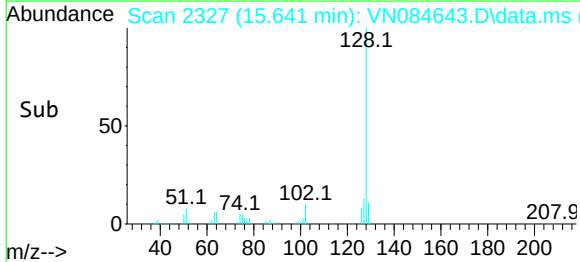
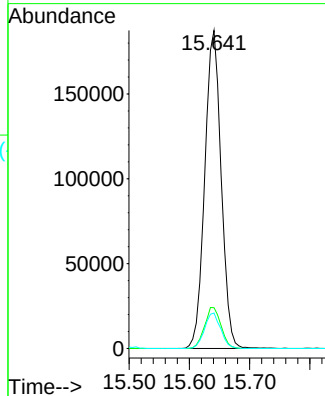
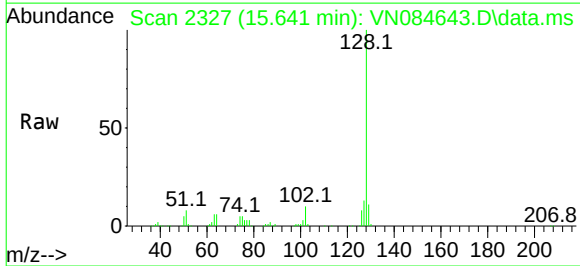
129 11.0 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024



#96

1,2,3-Trichlorobenzene

Concen: 37.587 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN084643.D

Acq: 01 Nov 2024 17:07

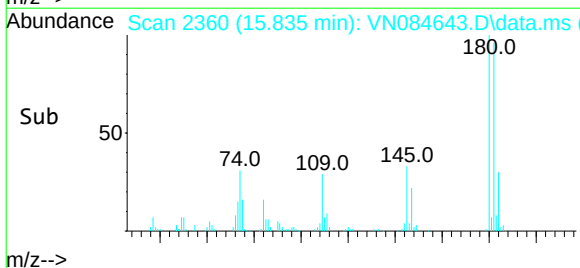
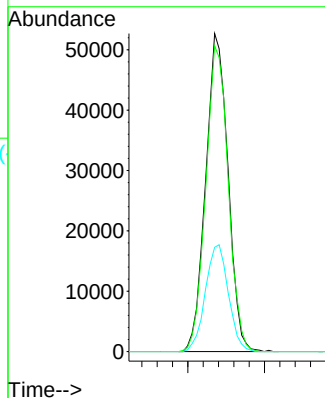
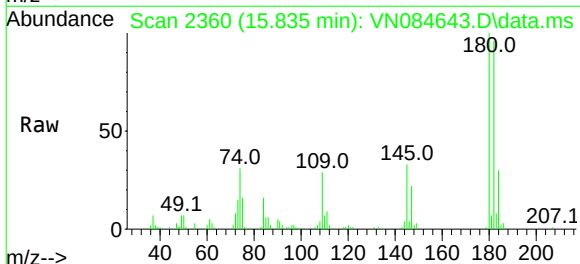
Tgt Ion:180 Resp: 106474

Ion Ratio Lower Upper

180 100

182 96.5 48.2 144.6

145 34.6 17.3 51.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
 Data File : VN084643.D
 Acq On : 01 Nov 2024 17:07
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 04 04:30:30 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 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	100	0.00
2 T	Dichlorodifluoromethane	0.575	0.514	10.6	93	0.00
3 P	Chloromethane	0.952	0.561	41.1#	83	0.00
4 C	Vinyl Chloride	0.618	0.546	11.7#	90	0.00
5 T	Bromomethane	0.328	0.284	13.4	96	-0.05
6 T	Chloroethane	0.488	0.367	24.8	97	-0.05
7 T	Trichlorofluoromethane	1.018	0.913	10.3	95	-0.03
8 T	Diethyl Ether	0.359	0.328	8.6	93	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.575	0.529	8.0	95	-0.02
10 T	Methyl Iodide	0.769	0.706	8.2	96	-0.02
11 T	Tert butyl alcohol	0.095	0.087	8.4	101	0.02
12 CM	1,1-Dichloroethene	0.569	0.500	12.1#	93	-0.02
13 T	Acrolein	0.095	0.106	-11.6	120	0.00
14 T	Allyl chloride	0.923	0.871	5.6	95	-0.02
15 T	Acrylonitrile	0.276	0.277	-0.4	102	0.00
16 T	Acetone	0.238	0.247	-3.8	121	0.00
17 T	Carbon Disulfide	1.753	1.430	18.4	89	-0.01
18 T	Methyl Acetate	1.172	0.695	40.7#	93	0.00
19 T	Methyl tert-butyl Ether	1.745	1.731	0.8	98	0.00
20 T	Methylene Chloride	0.635	0.579	8.8	96	-0.01
21 T	trans-1,2-Dichloroethene	0.585	0.534	8.7	95	-0.01
22 T	Diisopropyl ether	1.835	1.795	2.2	97	0.00
23 T	Vinyl Acetate	1.265	1.293	-2.2	99	0.00
24 P	1,1-Dichloroethane	1.102	1.038	5.8	97	0.00
25 T	2-Butanone	0.337	0.364	-8.0	115	0.00
26 T	2,2-Dichloropropane	0.959	0.899	6.3	95	0.00
27 T	cis-1,2-Dichloroethene	0.683	0.637	6.7	96	0.00
28 T	Bromochloromethane	0.439	0.531	-21.0	104	0.00
29 T	Tetrahydrofuran	0.224	0.234	-4.5	105	0.00
30 C	Chloroform	1.121	1.072	4.4#	99	0.00
31 T	Cyclohexane	0.997	0.871	12.6	93	0.00
32 T	1,1,1-Trichloroethane	1.021	0.952	6.8	96	0.00
33 S	1,2-Dichloroethane-d4	0.722	0.639	11.5	88	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	101	0.00
35 S	Dibromofluoromethane	0.338	0.309	8.6	90	0.00
36 T	1,1-Dichloropropene	0.469	0.440	6.2	98	0.00
37 T	Ethyl Acetate	0.426	0.428	-0.5	102	0.00
38 T	Carbon Tetrachloride	0.525	0.494	5.9	97	0.00
39 T	Methylcyclohexane	0.478	0.469	1.9	93	0.00
40 TM	Benzene	1.507	1.406	6.7	98	0.00
41 T	Methacrylonitrile	0.229	0.245	-7.0	100	0.00
42 TM	1,2-Dichloroethane	0.488	0.463	5.1	94	0.00
43 T	Isopropyl Acetate	0.927	0.757	18.3	101	0.00
44 TM	Trichloroethene	0.348	0.312	10.3	94	0.00
45 C	1,2-Dichloropropane	0.354	0.338	4.5#	98	0.00
46 T	Dibromomethane	0.250	0.238	4.8	98	0.00
47 T	Bromodichloromethane	0.526	0.504	4.2	97	0.00
48 T	Methyl methacrylate	0.331	0.346	-4.5	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
 Data File : VN084643.D
 Acq On : 01 Nov 2024 17:07
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 04 04:30:30 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.006	0.007	-16.7	109	0.00
50 S	Toluene-d8	1.247	1.142	8.4	88	0.00
51 T	4-Methyl-2-Pentanone	0.406	0.443	-9.1	105	0.00
52 CM	Toluene	0.882	0.867	1.7#	97	0.00
53 T	t-1,3-Dichloropropene	0.544	0.504	7.4	93	0.00
54 T	cis-1,3-Dichloropropene	0.576	0.541	6.1	94	0.00
55 T	1,1,2-Trichloroethane	0.332	0.328	1.2	100	0.00
56 T	Ethyl methacrylate	0.480	0.530	-10.4	99	0.00
57 T	1,3-Dichloropropane	0.570	0.554	2.8	99	0.00
58 T	2-Chloroethyl Vinyl ether	0.225	0.274	-21.8	105	0.00
59 T	2-Hexanone	0.296	0.332	-12.2	107	0.00
60 T	Dibromochloromethane	0.378	0.383	-1.3	98	0.00
61 T	1,2-Dibromoethane	0.340	0.326	4.1	98	0.00
62 S	4-Bromofluorobenzene	0.466	0.447	4.1	91	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
64 T	Tetrachloroethene	0.333	0.300	9.9	99	0.00
65 PM	Chlorobenzene	1.119	0.998	10.8	98	0.00
66 T	1,1,1,2-Tetrachloroethane	0.389	0.357	8.2	99	0.00
67 C	Ethyl Benzene	1.867	1.760	5.7#	97	0.00
68 T	m/p-Xylenes	0.707	0.681	3.7	97	0.00
69 T	o-Xylene	0.661	0.650	1.7	98	0.00
70 T	Styrene	1.154	1.140	1.2	98	0.00
71 P	Bromoform	0.293	0.285	2.7	101	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	109	0.00
73 T	Isopropylbenzene	3.504	3.160	9.8	97	0.00
74 T	N-amyl acetate	1.491	1.401	6.0	100	0.00
75 P	1,1,2,2-Tetrachloroethane	1.170	1.019	12.9	104	0.00
76 T	1,2,3-Trichloropropane	0.999	0.954	4.5	117	0.00
77 T	Bromobenzene	0.942	0.783	16.9	97	0.00
78 T	n-propylbenzene	4.106	3.723	9.3	96	0.00
79 T	2-Chlorotoluene	2.683	2.344	12.6	98	0.00
80 T	1,3,5-Trimethylbenzene	2.904	2.752	5.2	98	0.00
81 T	trans-1,4-Dichloro-2-butene	0.421	0.365	13.3	99	0.00
82 T	4-Chlorotoluene	2.823	2.376	15.8	95	0.00
83 T	tert-Butylbenzene	2.403	2.322	3.4	100	0.00
84 T	1,2,4-Trimethylbenzene	2.997	2.808	6.3	97	0.00
85 T	sec-Butylbenzene	3.395	3.151	7.2	97	0.00
86 T	p-Isopropyltoluene	2.784	2.671	4.1	96	0.00
87 T	1,3-Dichlorobenzene	1.838	1.473	19.9	96	0.00
88 T	1,4-Dichlorobenzene	1.937	1.473	24.0	96	0.00
89 T	n-Butylbenzene	2.605	2.224	14.6	93	0.00
90 T	Hexachloroethane	0.621	0.509	18.0	94	0.00
91 T	1,2-Dichlorobenzene	1.766	1.464	17.1	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.237	0.200	15.6	101	0.00
93 T	1,2,4-Trichlorobenzene	0.967	0.712	26.4#	90	0.00
94 T	Hexachlorobutadiene	0.425	0.329	22.6	97	0.00
95 T	Naphthalene	2.894	2.346	18.9	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084643.D
Acq On : 01 Nov 2024 17:07
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 04 04:30:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
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	0.939	0.706	24.8	92	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
 Data File : VN084643.D
 Acq On : 01 Nov 2024 17:07
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 04 04:30:30 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 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	100	0.00
2 T	Dichlorodifluoromethane	50.000	44.693	10.6	93	0.00
3 P	Chloromethane	50.000	41.162	17.7	83	0.00
4 C	Vinyl Chloride	50.000	44.198	11.6#	90	0.00
5 T	Bromomethane	50.000	43.296	13.4	96	-0.05
6 T	Chloroethane	50.000	47.878	4.2	97	-0.05
7 T	Trichlorofluoromethane	50.000	44.844	10.3	95	-0.03
8 T	Diethyl Ether	50.000	45.608	8.8	93	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	45.999	8.0	95	-0.02
10 T	Methyl Iodide	50.000	45.911	8.2	96	-0.02
11 T	Tert butyl alcohol	250.000	228.837	8.5	101	0.02
12 CM	1,1-Dichloroethene	50.000	43.875	12.3#	93	-0.02
13 T	Acrolein	250.000	277.733	-11.1	120	0.00
14 T	Allyl chloride	50.000	47.184	5.6	95	-0.02
15 T	Acrylonitrile	250.000	251.237	-0.5	102	0.00
16 T	Acetone	250.000	296.026	-18.4	121	0.00
17 T	Carbon Disulfide	50.000	40.777	18.4	89	-0.01
18 T	Methyl Acetate	50.000	45.245	9.5	93	0.00
19 T	Methyl tert-butyl Ether	50.000	49.590	0.8	98	0.00
20 T	Methylene Chloride	50.000	45.606	8.8	96	-0.01
21 T	trans-1,2-Dichloroethene	50.000	45.684	8.6	95	-0.01
22 T	Diisopropyl ether	50.000	48.902	2.2	97	0.00
23 T	Vinyl Acetate	250.000	255.447	-2.2	99	0.00
24 P	1,1-Dichloroethane	50.000	47.100	5.8	97	0.00
25 T	2-Butanone	250.000	269.898	-8.0	115	0.00
26 T	2,2-Dichloropropane	50.000	46.857	6.3	95	0.00
27 T	cis-1,2-Dichloroethene	50.000	46.674	6.7	96	0.00
28 T	Bromochloromethane	50.000	60.545	-21.1	104	0.00
29 T	Tetrahydrofuran	250.000	261.234	-4.5	105	0.00
30 C	Chloroform	50.000	47.816	4.4#	99	0.00
31 T	Cyclohexane	50.000	43.702	12.6	93	0.00
32 T	1,1,1-Trichloroethane	50.000	46.667	6.7	96	0.00
33 S	1,2-Dichloroethane-d4	50.000	44.214	11.6	88	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	101	0.00
35 S	Dibromofluoromethane	50.000	45.633	8.7	90	0.00
36 T	1,1-Dichloropropene	50.000	46.898	6.2	98	0.00
37 T	Ethyl Acetate	50.000	50.206	-0.4	102	0.00
38 T	Carbon Tetrachloride	50.000	47.123	5.8	97	0.00
39 T	Methylcyclohexane	50.000	49.108	1.8	93	0.00
40 TM	Benzene	50.000	46.647	6.7	98	0.00
41 T	Methacrylonitrile	50.000	53.530	-7.1	100	0.00
42 TM	1,2-Dichloroethane	50.000	47.467	5.1	94	0.00
43 T	Isopropyl Acetate	50.000	48.051	3.9	101	0.00
44 TM	Trichloroethene	50.000	44.913	10.2	94	0.00
45 C	1,2-Dichloropropane	50.000	47.842	4.3#	98	0.00
46 T	Dibromomethane	50.000	47.678	4.6	98	0.00
47 T	Bromodichloromethane	50.000	47.883	4.2	97	0.00
48 T	Methyl methacrylate	50.000	52.208	-4.4	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
 Data File : VN084643.D
 Acq On : 01 Nov 2024 17:07
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 04 04:30:30 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 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	1116.514	-11.7	109	0.00
50 S	Toluene-d8	50.000	45.790	8.4	88	0.00
51 T	4-Methyl-2-Pentanone	250.000	272.575	-9.0	105	0.00
52 CM	Toluene	50.000	49.183	1.6#	97	0.00
53 T	t-1,3-Dichloropropene	50.000	46.260	7.5	93	0.00
54 T	cis-1,3-Dichloropropene	50.000	46.972	6.1	94	0.00
55 T	1,1,2-Trichloroethane	50.000	49.336	1.3	100	0.00
56 T	Ethyl methacrylate	50.000	55.207	-10.4	99	0.00
57 T	1,3-Dichloropropane	50.000	48.563	2.9	99	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	304.914	-22.0	105	0.00
59 T	2-Hexanone	250.000	280.493	-12.2	107	0.00
60 T	Dibromochloromethane	50.000	50.589	-1.2	98	0.00
61 T	1,2-Dibromoethane	50.000	47.989	4.0	98	0.00
62 S	4-Bromofluorobenzene	50.000	47.985	4.0	91	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
64 T	Tetrachloroethene	50.000	45.036	9.9	99	0.00
65 PM	Chlorobenzene	50.000	44.610	10.8	98	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	45.897	8.2	99	0.00
67 C	Ethyl Benzene	50.000	47.126	5.7#	97	0.00
68 T	m/p-Xylenes	100.000	96.376	3.6	97	0.00
69 T	o-Xylene	50.000	49.151	1.7	98	0.00
70 T	Styrene	50.000	49.400	1.2	98	0.00
71 P	Bromoform	50.000	48.752	2.5	101	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	109	0.00
73 T	Isopropylbenzene	50.000	45.098	9.8	97	0.00
74 T	N-amyl acetate	50.000	46.982	6.0	100	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	43.570	12.9	104	0.00
76 T	1,2,3-Trichloropropane	50.000	47.712	4.6	117	0.00
77 T	Bromobenzene	50.000	41.565	16.9	97	0.00
78 T	n-propylbenzene	50.000	45.341	9.3	96	0.00
79 T	2-Chlorotoluene	50.000	43.676	12.6	98	0.00
80 T	1,3,5-Trimethylbenzene	50.000	47.386	5.2	98	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	43.343	13.3	99	0.00
82 T	4-Chlorotoluene	50.000	42.079	15.8	95	0.00
83 T	tert-Butylbenzene	50.000	48.297	3.4	100	0.00
84 T	1,2,4-Trimethylbenzene	50.000	46.843	6.3	97	0.00
85 T	sec-Butylbenzene	50.000	46.404	7.2	97	0.00
86 T	p-Isopropyltoluene	50.000	47.960	4.1	96	0.00
87 T	1,3-Dichlorobenzene	50.000	40.052	19.9	96	0.00
88 T	1,4-Dichlorobenzene	50.000	43.485	13.0	96	0.00
89 T	n-Butylbenzene	50.000	42.698	14.6	93	0.00
90 T	Hexachloroethane	50.000	40.948	18.1	94	0.00
91 T	1,2-Dichlorobenzene	50.000	41.428	17.1	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	42.277	15.4	101	0.00
93 T	1,2,4-Trichlorobenzene	50.000	36.821	26.4#	90	0.00
94 T	Hexachlorobutadiene	50.000	38.689	22.6	97	0.00
95 T	Naphthalene	50.000	40.533	18.9	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084643.D
Acq On : 01 Nov 2024 17:07
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 04 04:30:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
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	37.587	24.8	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



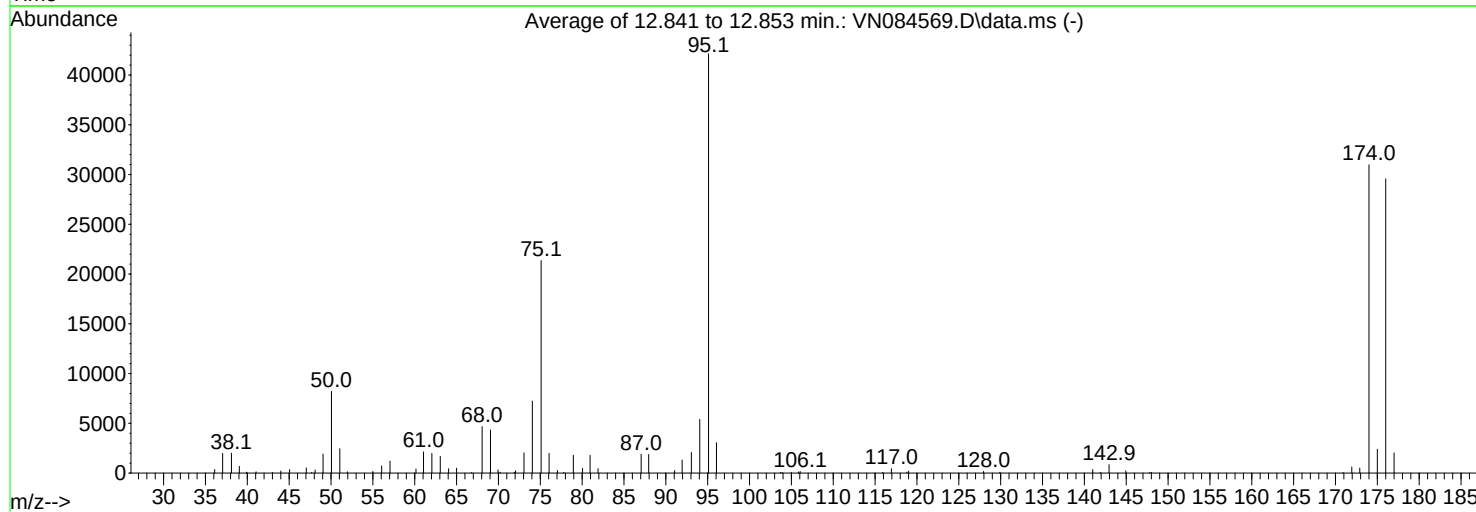
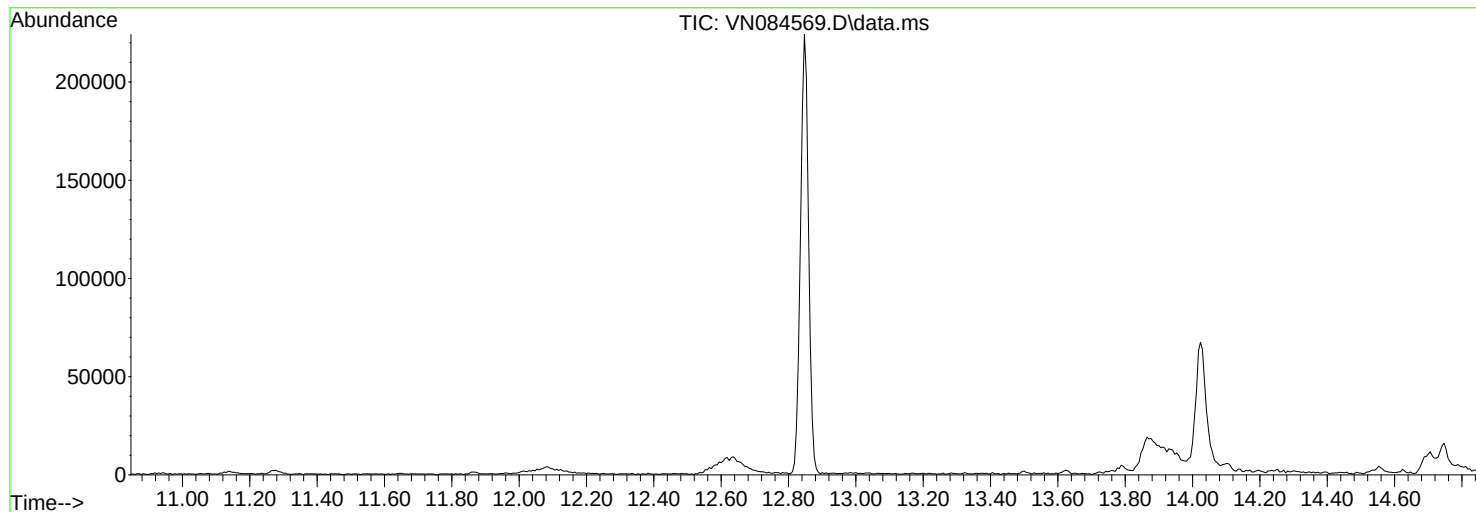
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084569.D
Acq On : 30 Oct 2024 10:42
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\82N103024W.M
Title : SW846 8260
Last Update : Thu Oct 31 18:45:38 2024



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	19.5	8210	PASS
75	95	30	60	50.7	21357	PASS
95	95	100	100	100.0	42141	PASS
96	95	5	9	7.2	3053	PASS
173	174	0.00	2	1.6	502	PASS
174	95	50	100	73.5	30984	PASS
175	174	5	9	7.7	2392	PASS
176	174	95	101	95.4	29560	PASS
177	176	5	9	6.9	2026	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	359	48.10	321	63.05	1677	74.05	7235
37.05	1972	49.05	1905	64.05	441	75.10	21357
38.10	2004	50.05	8210	65.00	496	76.05	1981
39.05	674	51.05	2454	66.80	70	77.05	260
39.90	98	51.95	137	68.05	4674	77.80	63
41.05	129	55.00	174	69.05	4327	78.95	1789
43.00	58	56.05	724	69.95	329	80.05	481
44.00	211	57.05	1205	70.20	94	80.95	1784
45.05	351	60.15	415	71.90	82	81.90	450
47.05	515	61.05	2127	72.05	237	87.05	1893
47.70	66	62.05	1973	73.05	2035	87.95	1870

Average of 12.841 to 12.853 min.: VN084569.D\data.ms

BFB

Modified:subtracted

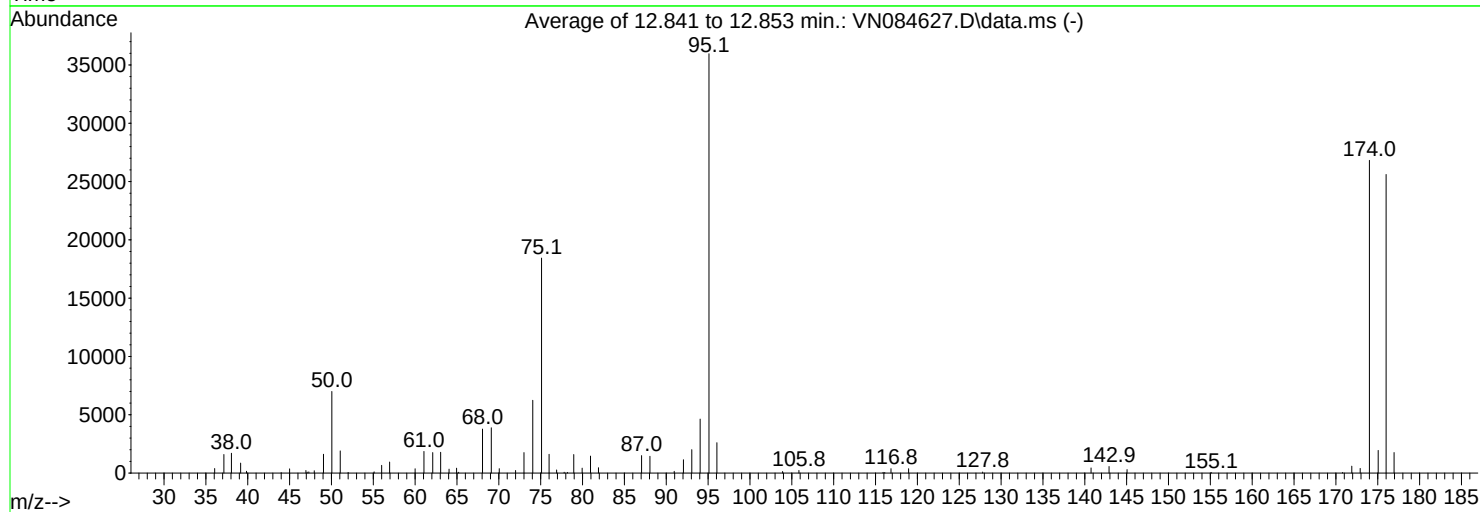
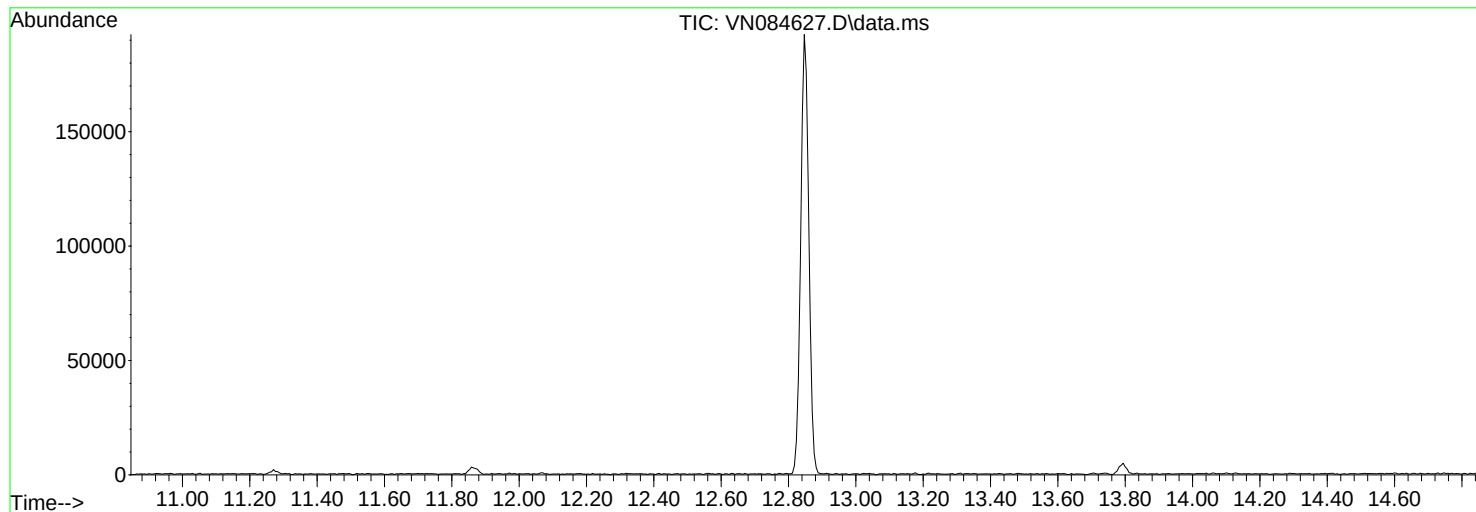
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.05	256	115.90	54	148.00	75		
91.95	1316	116.95	438	170.90	52		
93.05	2070	118.80	90	171.95	607		
94.05	5401	119.00	202	172.90	502		
95.10	42141	127.95	162	174.00	30984		
96.05	3053	129.90	69	175.00	2392		
103.70	65	141.00	358	176.00	29560		
103.90	65	141.90	66	177.00	2026		
105.00	53	142.95	857				
105.85	107	144.95	228				
106.05	162	147.80	53				

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084627.D
Acq On : 01 Nov 2024 09:48
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_X\Method\82X102824W.M
Title : SW846 8260
Last Update : Mon Oct 28 13:41:34 2024



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	19.5	7000	PASS
75	95	30	60	51.3	18438	PASS
95	95	100	100	100.0	35963	PASS
96	95	5	9	7.2	2604	PASS
173	174	0.00	2	1.5	400	PASS
174	95	50	100	74.6	26821	PASS
175	174	5	9	7.2	1944	PASS
176	174	95	101	95.5	25611	PASS
177	176	5	9	6.9	1760	PASS

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	
Project:	CTO WE13			Date Received:	
Client Sample ID:	VN1101WBL01			SDG No.:	P4665
Lab Sample ID:	VN1101WBL01			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
VN084630.D	1		11/01/24 11:29	VN110124

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:	CTO WE13			Date Received:	
Client Sample ID:	VN1101WBL01			SDG No.:	P4665
Lab Sample ID:	VN1101WBL01			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
VN084630.D	1		11/01/24 11:29	VN110124

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	51.6		81 - 118		103%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	47.4		89 - 112		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.8		85 - 114		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	180000	8.224				
540-36-3	1,4-Difluorobenzene	319000	9.1				
3114-55-4	Chlorobenzene-d5	286000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	126000	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\VN110124\
 Data File : VN084630.D
 Acq On : 01 Nov 2024 11:29
 Operator : JC\MD
 Sample : VN1101WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1101WBL01

Quant Time: Nov 04 04:23:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	180035	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	318575	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	285991	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	125664	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	134085	51.565	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	103.120%	
35) Dibromofluoromethane	8.159	113	107465	49.836	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	99.680%	
50) Toluene-d8	10.565	98	376240	47.365	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	94.740%	
62) 4-Bromofluorobenzene	12.847	95	139006	46.824	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	93.640%	

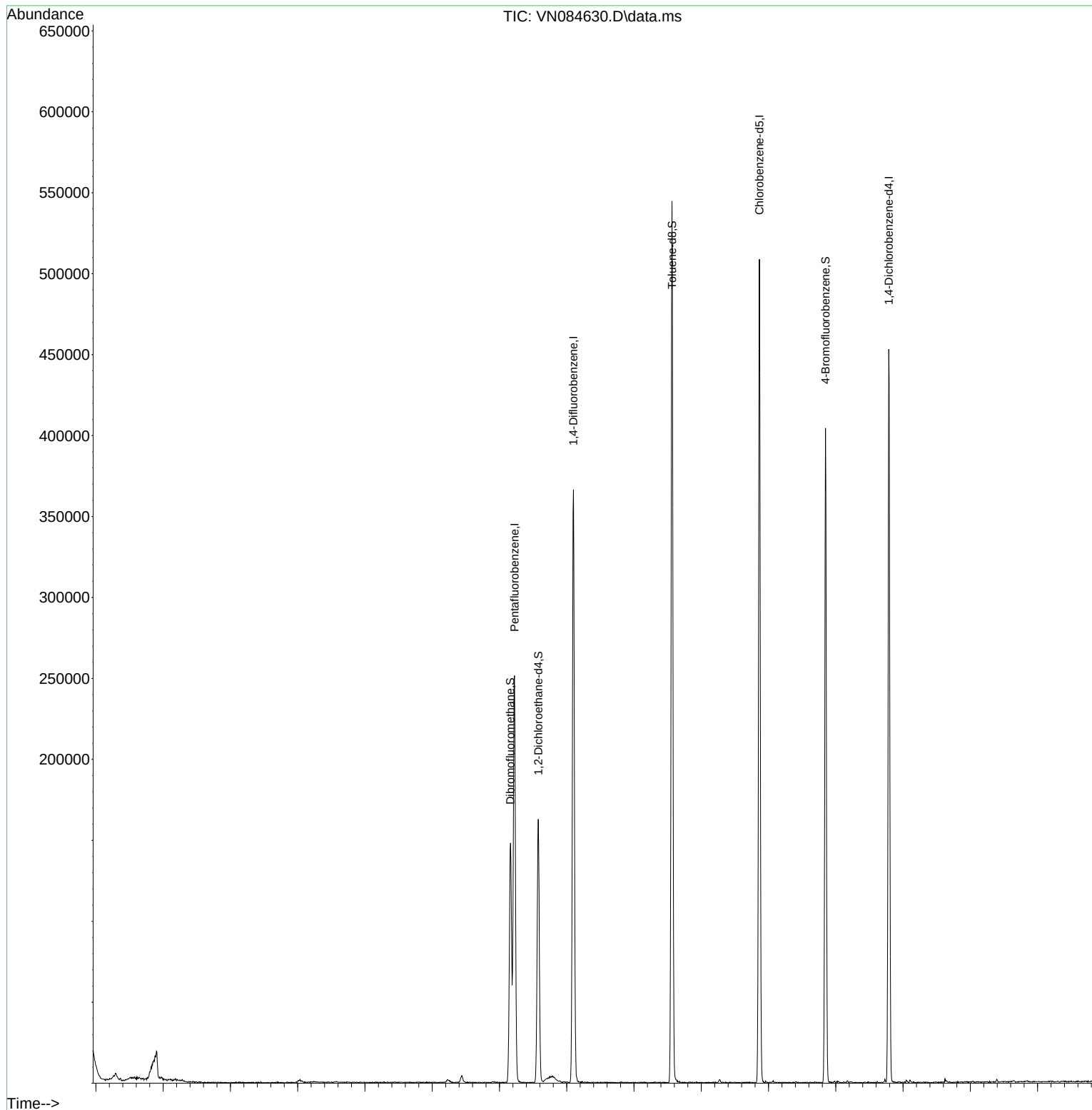
Target Compounds Qvalue

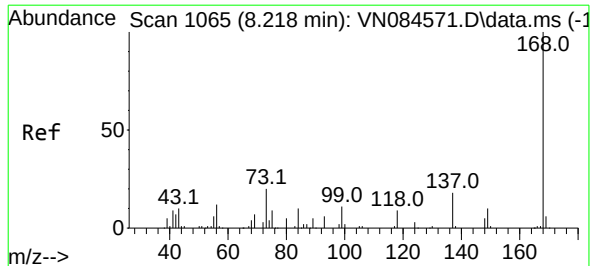
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084630.D
Acq On : 01 Nov 2024 11:29
Operator : JC\MD
Sample : VN1101WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBL01

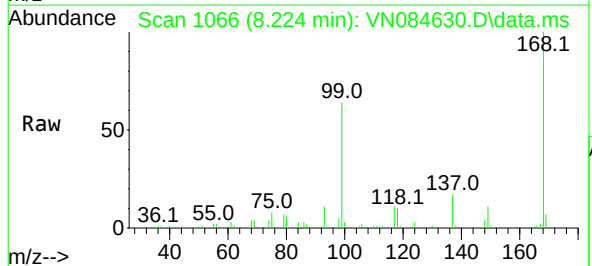
Quant Time: Nov 04 04:23:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



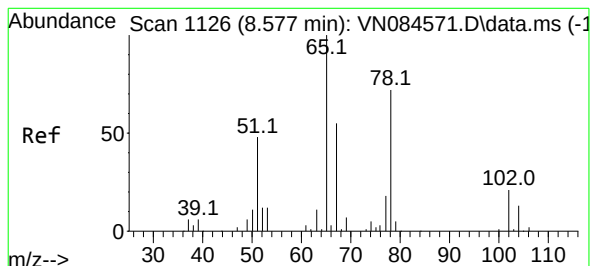
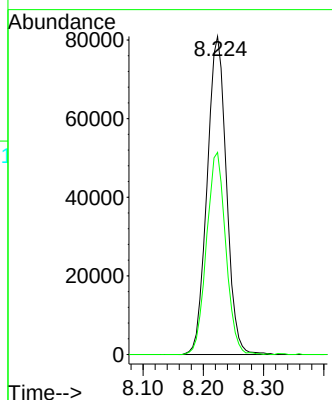
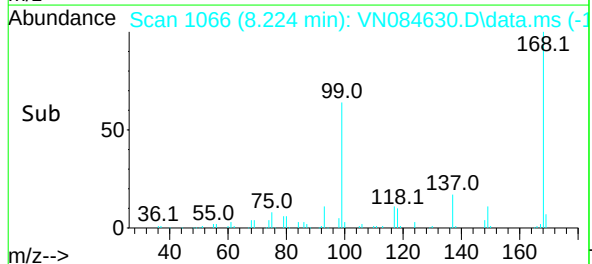


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084630.D
Acq: 01 Nov 2024 11:29

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBL01

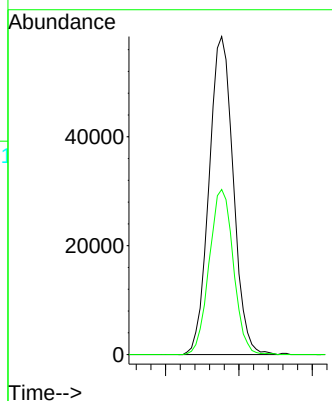
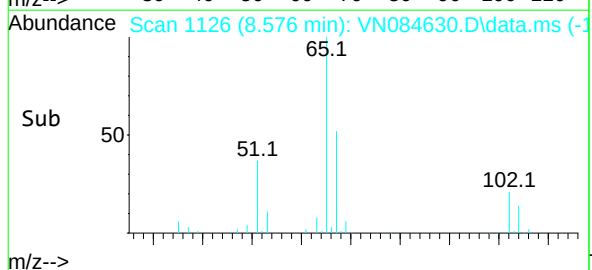
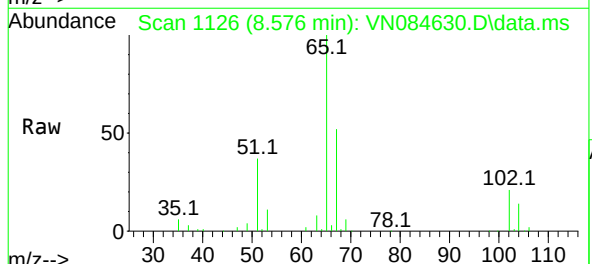


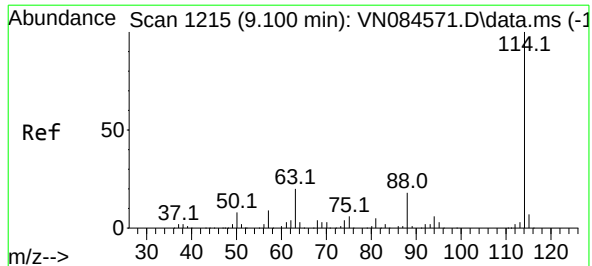
Tgt Ion: 168 Resp: 180035
Ion Ratio Lower Upper
168 100
99 63.5 54.2 81.2



#33
1,2-Dichloroethane-d4
Concen: 51.565 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.001 min
Lab File: VN084630.D
Acq: 01 Nov 2024 11:29

Tgt Ion: 65 Resp: 134085
Ion Ratio Lower Upper
65 100
67 51.8 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN084630.D

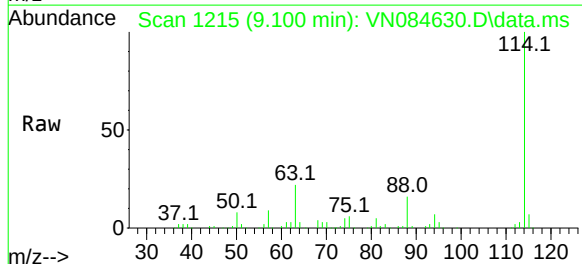
Acq: 01 Nov 2024 11:29

Instrument :

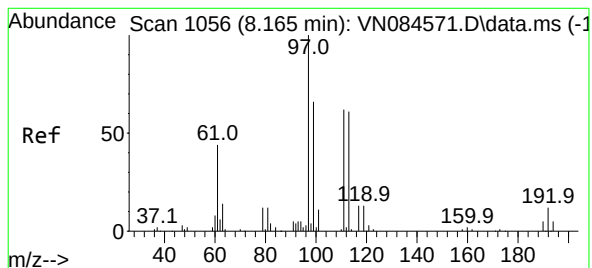
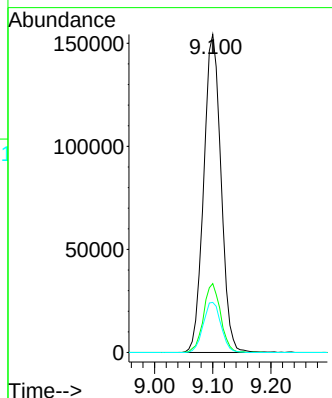
MSVOA_N

ClientSampleId :

VN1101WBL01



Tgt Ion:	114	Resp:	318575
Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	43.8
88	15.7	0.0	31.6



#35

Dibromofluoromethane

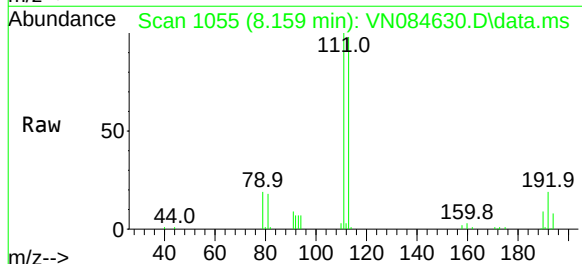
Concen: 49.836 ug/l

RT: 8.159 min Scan# 1055

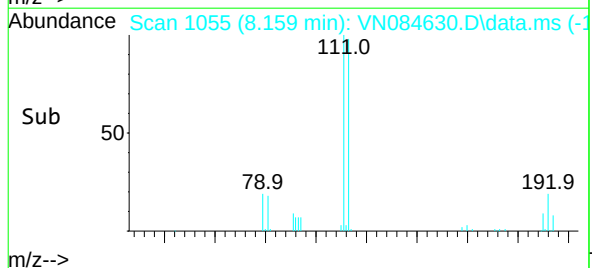
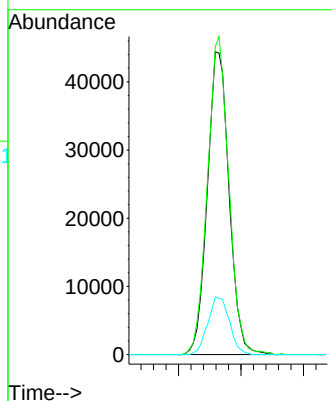
Delta R.T. -0.006 min

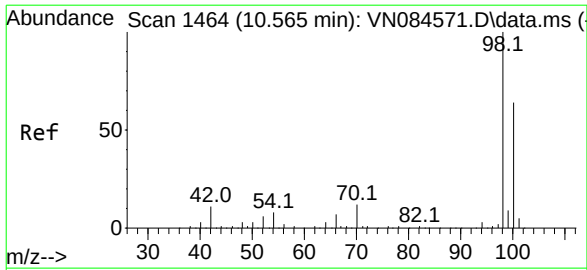
Lab File: VN084630.D

Acq: 01 Nov 2024 11:29



Tgt Ion:	113	Resp:	107465
Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.3	124.9
192	18.8	13.5	20.3





#50

Toluene-d8

Concen: 47.365 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084630.D

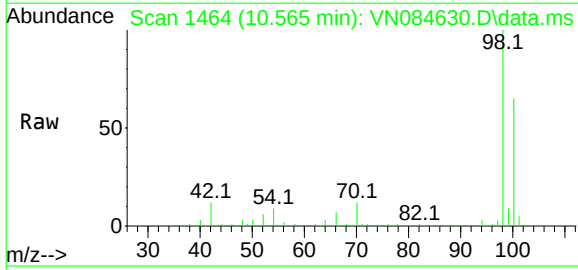
Acq: 01 Nov 2024 11:29

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBL01

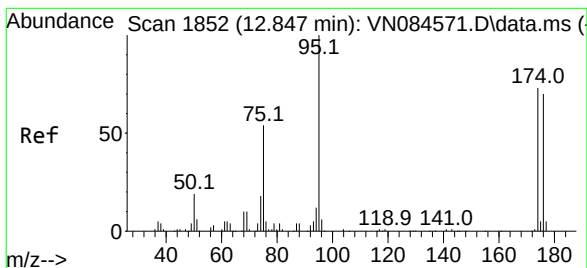
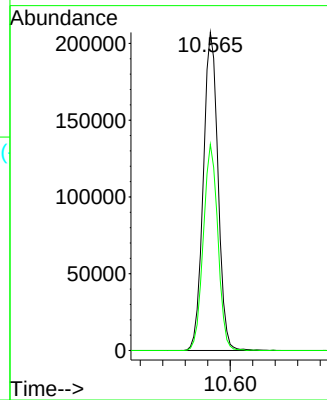
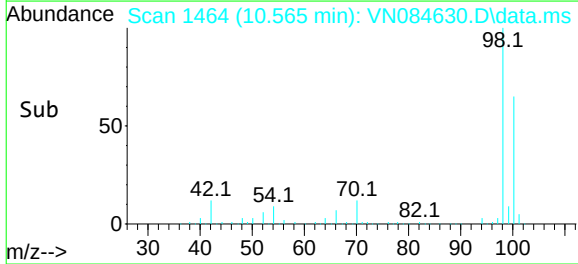


Tgt Ion: 98 Resp: 376240

Ion Ratio Lower Upper

98 100

100 64.0 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 46.824 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN084630.D

Acq: 01 Nov 2024 11:29

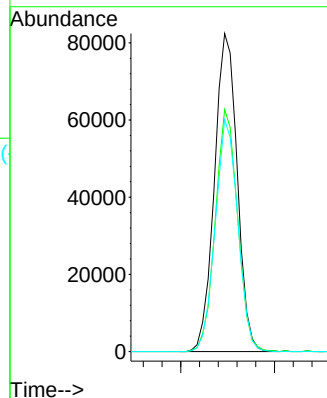
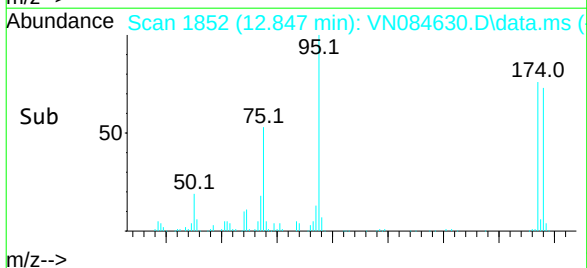
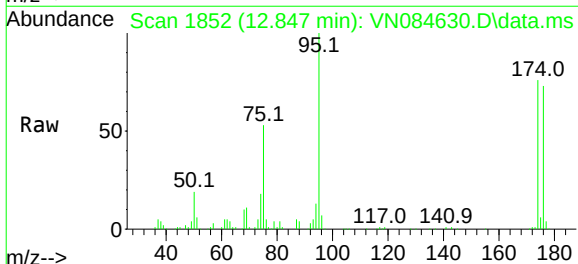
Tgt Ion: 95 Resp: 139006

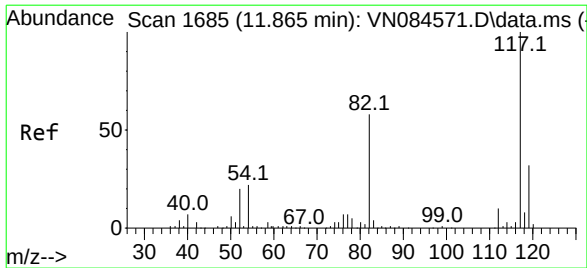
Ion Ratio Lower Upper

95 100

174 74.7 0.0 145.2

176 72.2 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 16

Delta R.T. -0.000 min

Lab File: VN084630.D

Acq: 01 Nov 2024 11:29

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBL01

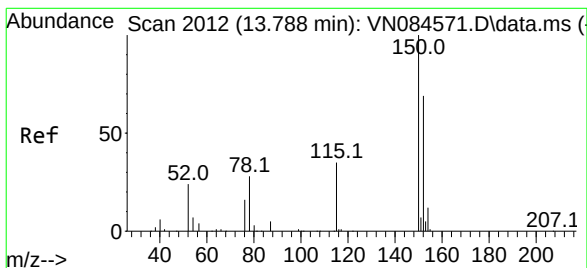
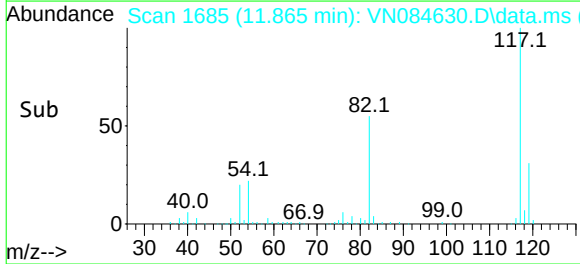
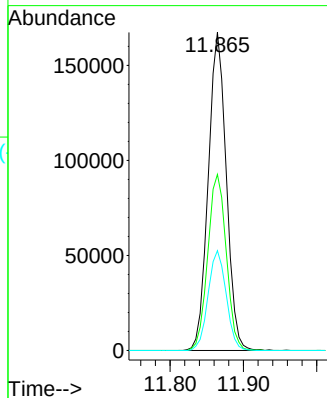
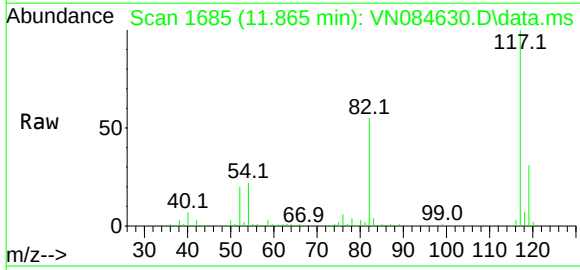
Tgt Ion:117 Resp: 285991

Ion Ratio Lower Upper

117 100

82 55.4 47.2 70.8

119 31.4 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN084630.D

Acq: 01 Nov 2024 11:29

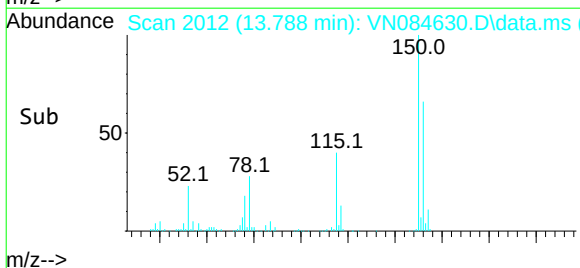
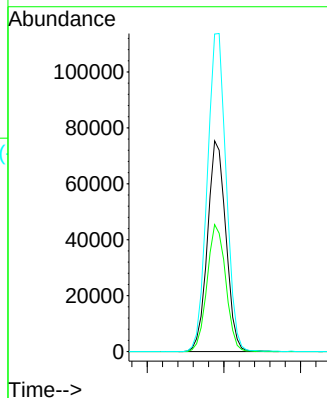
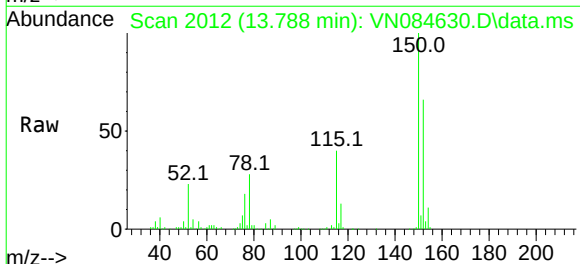
Tgt Ion:152 Resp: 125664

Ion Ratio Lower Upper

152 100

115 60.9 31.3 93.9

150 154.9 0.0 349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084630.D
Acq On : 01 Nov 2024 11:29
Operator : JC\MD
Sample : VN1101WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBL01

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\82N103024W.M

Title : SW846 8260

Signal : TIC: VN084630.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.900	159	161	167	rVB2	16708	23699	2.40%	0.443%
2	7.441	924	933	940	rBV2	4311	10250	1.04%	0.191%
3	8.165	1046	1056	1060	rBV	148145	346437	35.10%	6.469%
4	8.224	1060	1066	1077	rVB	250837	566865	57.43%	10.586%
5	8.576	1116	1126	1139	rBV	162571	362771	36.76%	6.774%
6	9.100	1205	1215	1225	rBV	366220	754715	76.47%	14.093%
7	10.565	1455	1464	1477	rBV	544611	986986	100.00%	18.431%
8	11.865	1677	1685	1696	rBV	508549	878010	88.96%	16.396%
9	12.847	1845	1852	1862	rBV	404332	664162	67.29%	12.402%
10	13.788	2005	2012	2023	rVB	452800	761197	77.12%	14.214%

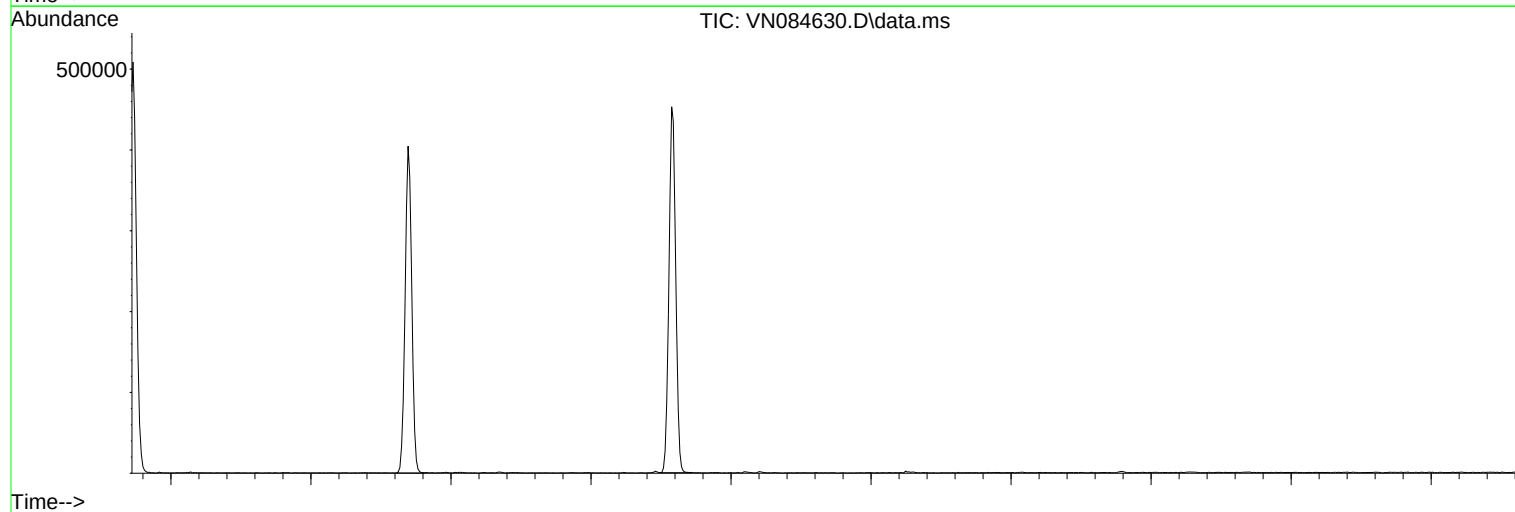
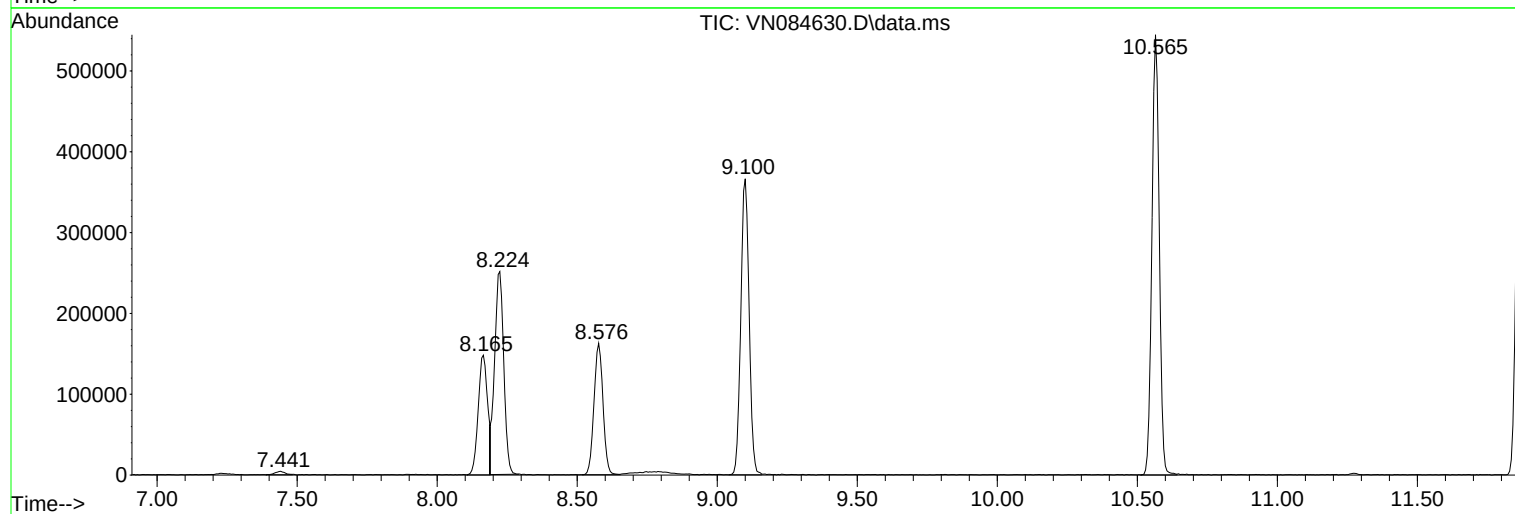
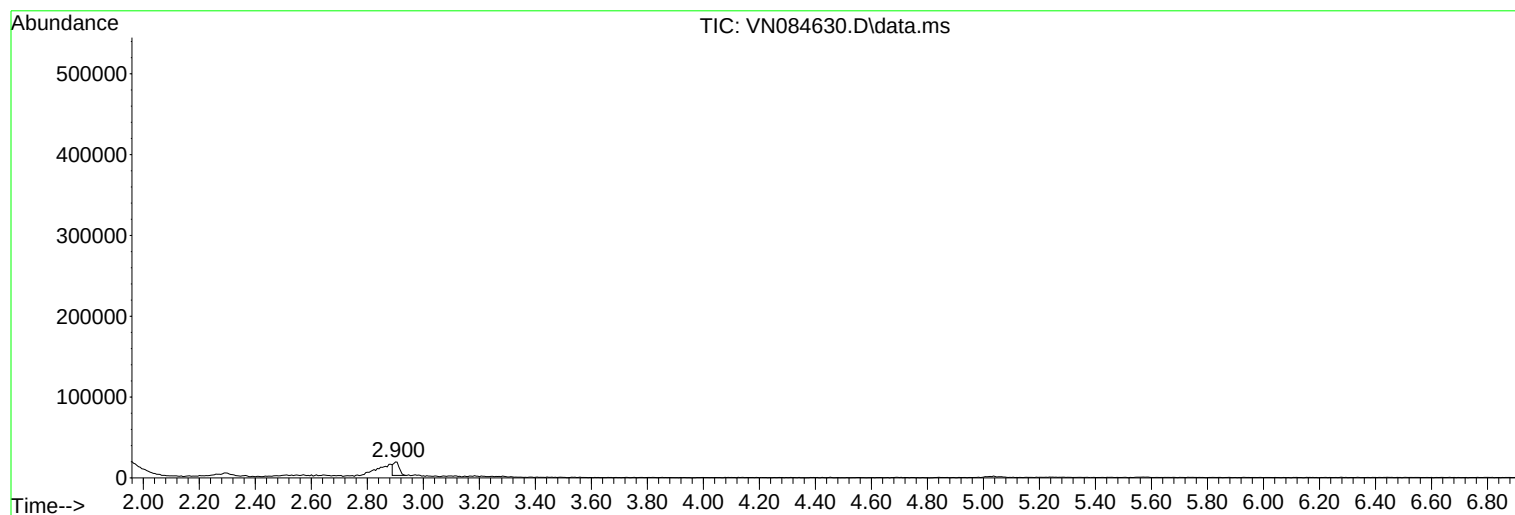
Sum of corrected areas: 5355092

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084630.D
Acq On : 01 Nov 2024 11:29
Operator : JC\MD
Sample : VN1101WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084630.D
Acq On : 01 Nov 2024 11:29
Operator : JC\MD
Sample : VN1101WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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\VN110124\
Data File : VN084630.D
Acq On : 01 Nov 2024 11:29
Operator : JC\MD
Sample : VN1101WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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:	
Project:	CTO WE13			Date Received:	
Client Sample ID:	VN1101WBS01			SDG No.:	P4665
Lab Sample ID:	VN1101WBS01			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
VN084631.D	1		11/01/24 12:08	VN110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	16.4		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	18.9		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	18.0		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	18.2		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.8		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.3		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.7		0.26	0.75	1.00	ug/L
67-64-1	Acetone	96.0		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	16.7		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.1		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	19.0		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.5		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.1		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	96.7		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.7		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.4		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	19.6		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.4		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	18.4		0.19	0.50	1.00	ug/L
71-43-2	Benzene	18.8		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.5		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	18.4		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.1		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.2		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	20.1		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	17.7		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.7		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.0		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VN1101WBS01	SDG No.:	P4665
Lab Sample ID:	VN1101WBS01	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
VN084631.D	1		11/01/24 12:08	VN110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	20.3		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	18.6		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	18.3		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	18.8		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	38.9		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	20.0		0.14	0.50	1.00	ug/L
100-42-5	Styrene	19.4		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	19.0		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	18.5		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.1		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	16.8		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	17.3		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	17.0		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.3		81 - 118		89%	SPK: 50
1868-53-7	Dibromofluoromethane	45.1		80 - 119		90%	SPK: 50
2037-26-5	Toluene-d8	46.1		89 - 112		92%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		85 - 114		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	191000	8.224				
540-36-3	1,4-Difluorobenzene	320000	9.1				
3114-55-4	Chlorobenzene-d5	288000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	147000	13.794				

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\VN110124\
 Data File : VN084631.D
 Acq On : 01 Nov 2024 12:08
 Operator : JC\MD
 Sample : VN1101WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1101WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
 Supervised By :Semsettin Yesilyurt 11/04/2024

Quant Time: Nov 04 04:24:13 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	190995	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	320452	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	287801	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	147052	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	122248	44.315	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	88.640%
35) Dibromofluoromethane	8.165	113	97927	45.147	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	90.300%
50) Toluene-d8	10.565	98	368236	46.086	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	92.180%
62) 4-Bromofluorobenzene	12.847	95	140490	47.047	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	94.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	42141	19.193	ug/l	100
3) Chloromethane	2.359	50	46710	16.439	ug/l	100
4) Vinyl Chloride	2.507	62	44544	18.862	ug/l	97
5) Bromomethane	2.901	94	22475	17.963	ug/l	97
6) Chloroethane	3.077	64	27854	18.166	ug/l	99
7) Trichlorofluoromethane	3.471	101	73135	18.800	ug/l	91
8) Diethyl Ether	3.959	74	24492	17.848	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.359	101	42530	19.348	ug/l	97
10) Methyl Iodide	4.583	142	53226	18.118	ug/l	96
11) Tert butyl alcohol	5.542	59	31560	86.672	ug/l	97
12) 1,1-Dichloroethene	4.330	96	38487	17.695	ug/l	98
13) Acrolein	4.177	56	36832	101.438	ug/l	98
14) Allyl chloride	5.018	41	65987	18.707	ug/l	91
15) Acrylonitrile	5.718	53	103209	97.908	ug/l	98
16) Acetone	4.436	43	77869	95.962	ug/l	97
17) Carbon Disulfide	4.700	76	112044	16.728	ug/l	98
18) Methyl Acetate	5.024	43	54615	16.052	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	127569	19.135	ug/l	94
20) Methylene Chloride	5.271	84	46004	18.961	ug/l	82
21) trans-1,2-Dichloroethene	5.777	96	41275	18.481	ug/l	96
22) Diisopropyl ether	6.671	45	136454	19.469	ug/l	98
23) Vinyl Acetate	6.600	43	469366	97.108	ug/l	97
24) 1,1-Dichloroethane	6.565	63	80215	19.063	ug/l	98
25) 2-Butanone	7.477	43	124468	96.713	ug/l	98
26) 2,2-Dichloropropane	7.489	77	70266	19.185	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	48039	18.421	ug/l	98
28) Bromochloromethane	7.806	49	36023	21.487	ug/l	93
29) Tetrahydrofuran	7.836	42	84907	99.446	ug/l	97
30) Chloroform	7.965	83	83941	19.599	ug/l	97
31) Cyclohexane	8.253	56	69789	18.324	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	75478	19.362	ug/l	98
36) 1,1-Dichloropropene	8.365	75	54975	18.275	ug/l	99
37) Ethyl Acetate	7.559	43	55210	20.228	ug/l	97
38) Carbon Tetrachloride	8.359	117	66382	19.742	ug/l	98
39) Methylcyclohexane	9.600	83	56415	18.434	ug/l	98
40) Benzene	8.606	78	181197	18.756	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
 Data File : VN084631.D
 Acq On : 01 Nov 2024 12:08
 Operator : JC\MD
 Sample : VN1101WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1101WBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
 Supervised By :Semsettin Yesilyurt 11/04/2024

Quant Time: Nov 04 04:24:13 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	30555	20.818	ug/l	97
42) 1,2-Dichloroethane	8.665	62	60923	19.472	ug/l	100
43) Isopropyl Acetate	8.688	43	91436	17.507	ug/l	97
44) Trichloroethene	9.347	130	41099	18.446	ug/l	100
45) 1,2-Dichloropropane	9.618	63	43224	19.073	ug/l	99
46) Dibromomethane	9.706	93	30391	19.005	ug/l	96
47) Bromodichloromethane	9.888	83	64821	19.230	ug/l #	96
48) Methyl methacrylate	9.677	41	42680	20.092	ug/l	98
49) 1,4-Dioxane	9.694	88	15461	410.740	ug/l #	79
51) 4-Methyl-2-Pentanone	10.447	43	272747	104.826	ug/l	99
52) Toluene	10.630	92	113778	20.137	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	61679	17.677	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	69008	18.686	ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	42540	19.987	ug/l	95
56) Ethyl methacrylate	10.877	69	62329	20.246	ug/l	97
57) 1,3-Dichloropropane	11.159	76	71264	19.510	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	137645	95.550	ug/l	99
59) 2-Hexanone	11.194	43	201434	106.361	ug/l	99
60) Dibromochloromethane	11.359	129	49329	20.336	ug/l	100
61) 1,2-Dibromoethane	11.465	107	41441	19.014	ug/l	100
64) Tetrachloroethene	11.106	164	35660	18.628	ug/l	99
65) Chlorobenzene	11.888	112	117685	18.278	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	42403	18.934	ug/l	99
67) Ethyl Benzene	11.965	91	202367	18.829	ug/l	98
68) m/p-Xylenes	12.071	106	158415	38.934	ug/l	99
69) o-Xylene	12.394	106	75949	19.953	ug/l	98
70) Styrene	12.412	104	128771	19.394	ug/l	99
71) Bromoform	12.576	173	31965	18.968	ug/l #	97
73) Isopropylbenzene	12.694	105	190126	18.450	ug/l	99
74) N-aryl acetate	12.494	43	79438	18.112	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.935	83	62261	18.101	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	49964m	16.997	ug/l	
77) Bromobenzene	12.982	156	48929	17.662	ug/l	93
78) n-propylbenzene	13.035	91	220072	18.224	ug/l	98
79) 2-Chlorotoluene	13.123	91	145506	18.441	ug/l	98
80) 1,3,5-Trimethylbenzene	13.171	105	164177	19.222	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	24782	20.001	ug/l #	84
82) 4-Chlorotoluene	13.218	91	146733	17.670	ug/l	98
83) tert-Butylbenzene	13.435	119	138949	19.657	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	169251	19.200	ug/l	99
85) sec-Butylbenzene	13.618	105	185297	18.558	ug/l	100
86) p-Isopropyltoluene	13.729	119	157950	19.288	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	91095	16.849	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	89211	17.266	ug/l	99
89) n-Butylbenzene	14.059	91	126030	16.453	ug/l	99
90) Hexachloroethane	14.335	117	31832	17.431	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	88346	17.005	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	12487	17.920	ug/l	95
93) 1,2,4-Trichlorobenzene	15.394	180	41786	14.695	ug/l	98
94) Hexachlorobutadiene	15.500	225	19729	15.799	ug/l	98
95) Naphthalene	15.641	128	130709	15.357	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	42159	15.273	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084631.D
Acq On : 01 Nov 2024 12:08
Operator : JC\MD
Sample : VN1101WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

Quant Time: Nov 04 04:24:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

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

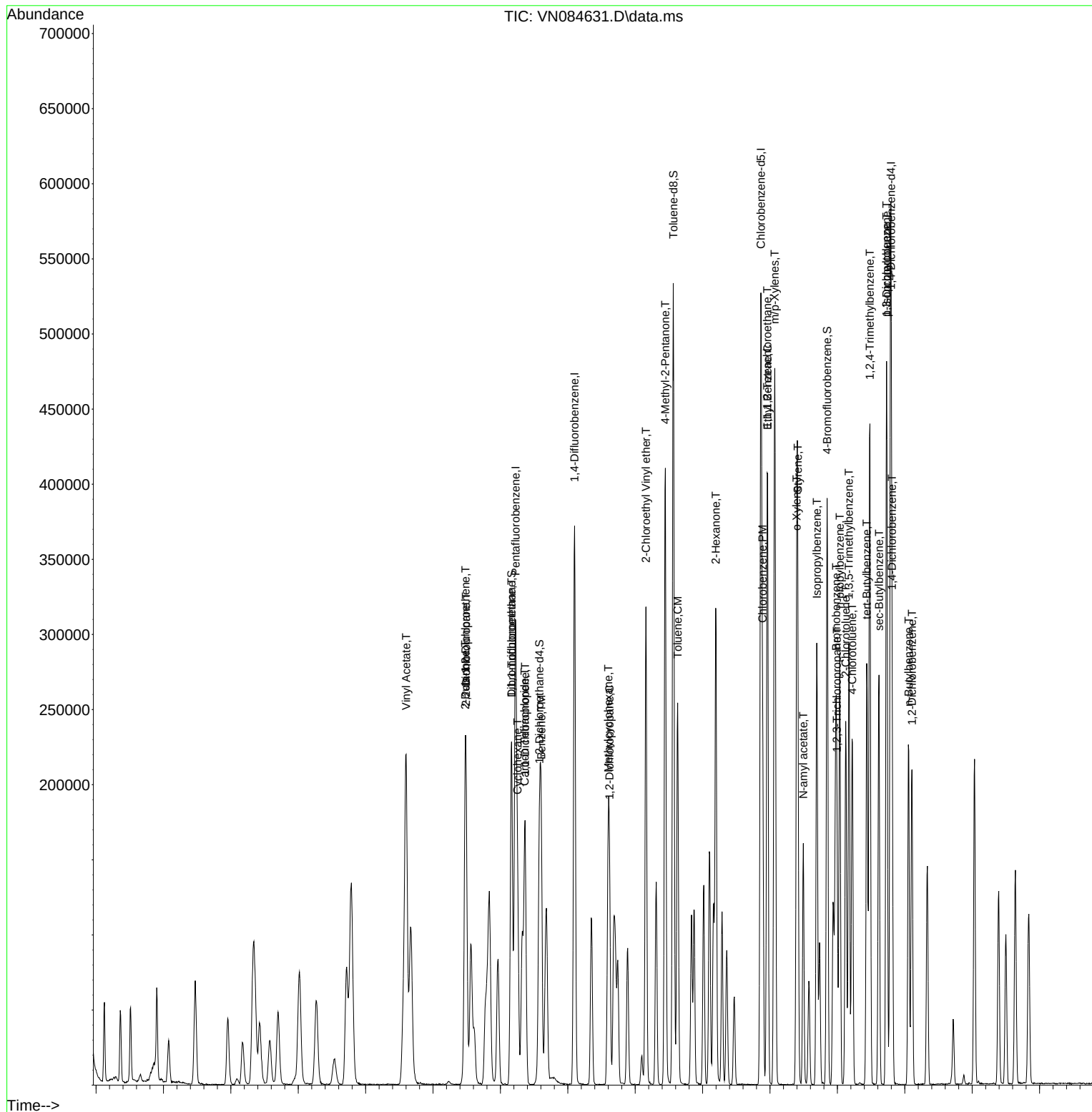
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084631.D
Acq On    : 01 Nov 2024 12:08
Operator  : JC\MD
Sample    : VN1101WBS01
Misc      : 5.0mL/MSVOA_N/WATER
ALS Vial  : 1 Sample Multiplier: 1
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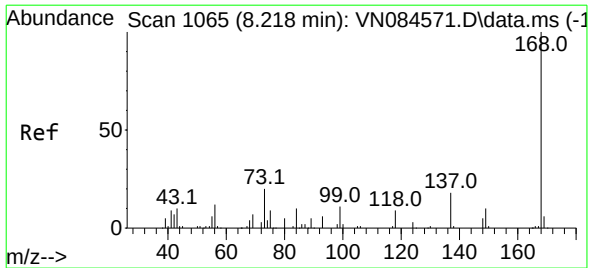
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

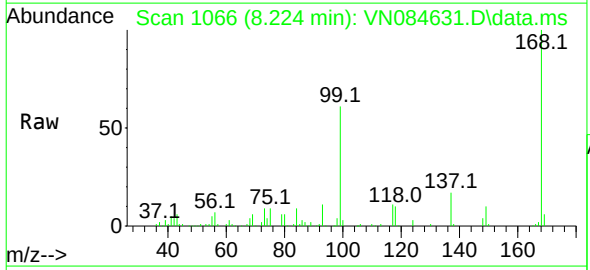
Quant Time: Nov 04 04:24:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

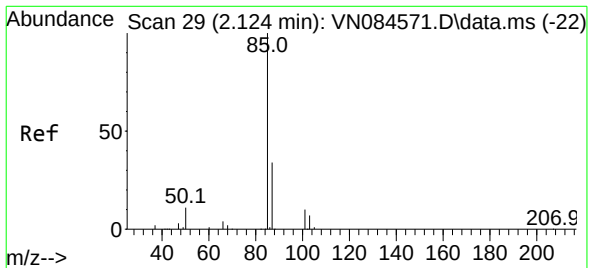
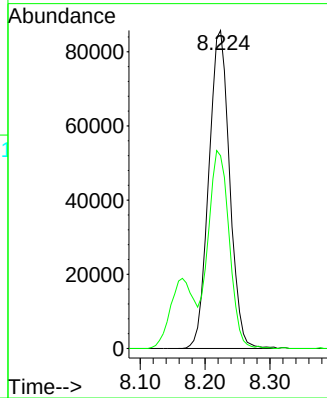
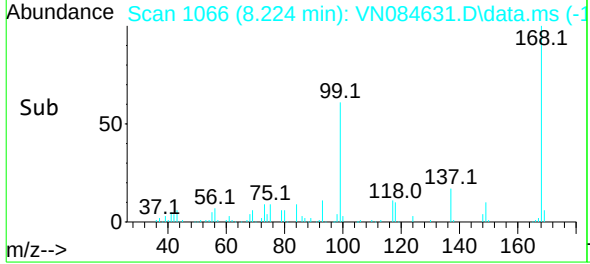
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBS01



Tgt Ion: 168 Resp: 190995
Ion Ratio Lower Upper
168 100
99 60.6 54.2 81.2

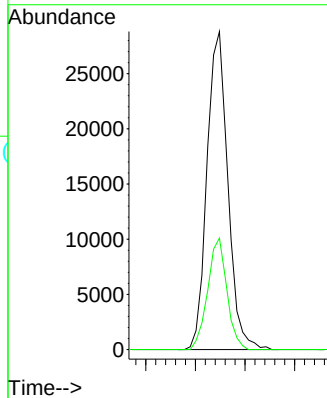
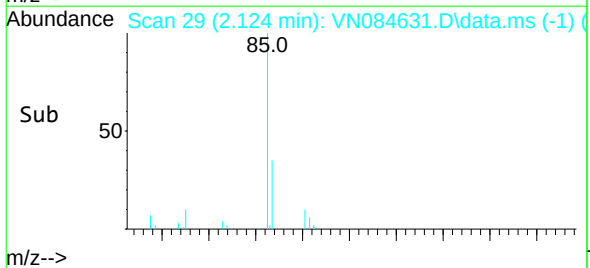
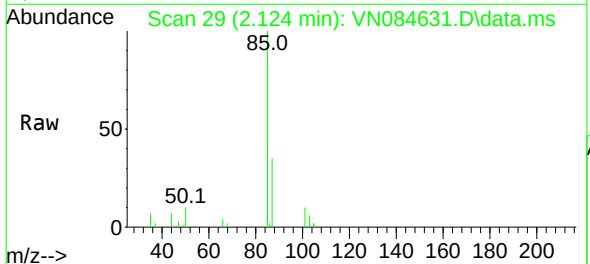
Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

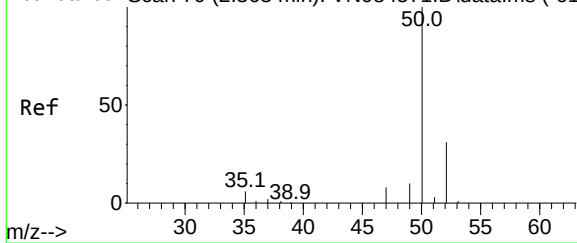


#2
Dichlorodifluoromethane
Concen: 19.193 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

Tgt Ion: 85 Resp: 42141
Ion Ratio Lower Upper
85 100
87 35.1 17.6 52.9



Abundance Scan 70 (2.365 min): VN084571.D\data.ms (-61)



#3

Chloromethane

Concen: 16.439 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion: 50 Resp: 46710

Ion Ratio Lower Upper

50 100

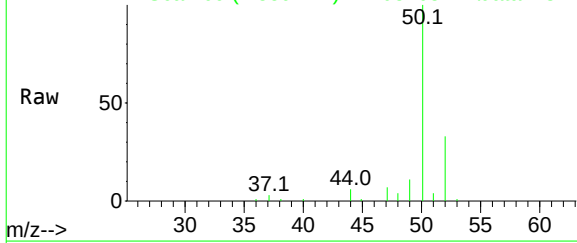
52 33.2 26.8 40.2

Manual Integrations

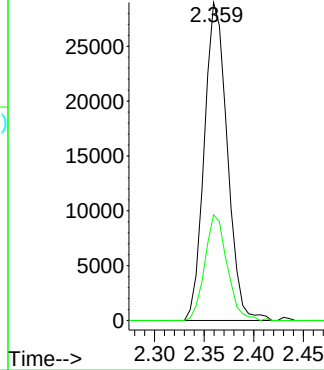
APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

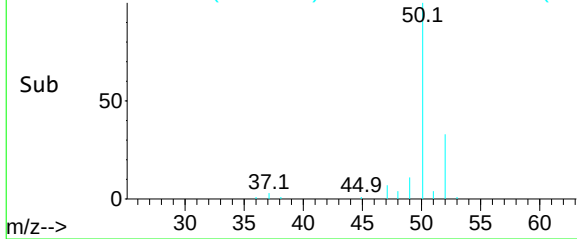
Abundance Scan 69 (2.359 min): VN084631.D\data.ms



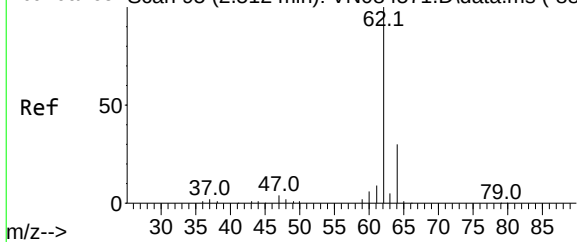
Abundance



Abundance Scan 69 (2.359 min): VN084631.D\data.ms (-18)



Abundance Scan 95 (2.512 min): VN084571.D\data.ms (-88)



#4

Vinyl Chloride

Concen: 18.862 ug/l

RT: 2.507 min Scan# 94

Delta R.T. -0.011 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

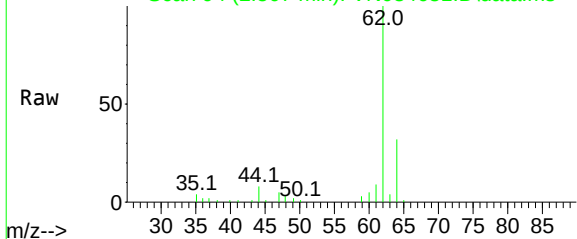
Tgt Ion: 62 Resp: 44544

Ion Ratio Lower Upper

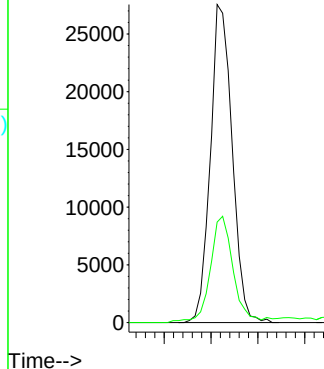
62 100

64 31.0 26.2 39.4

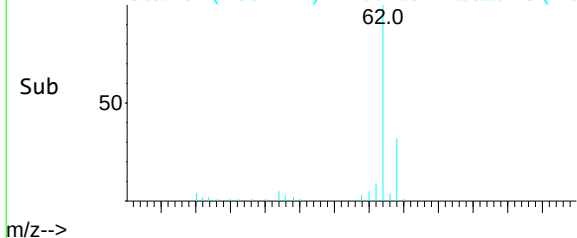
Abundance Scan 94 (2.507 min): VN084631.D\data.ms

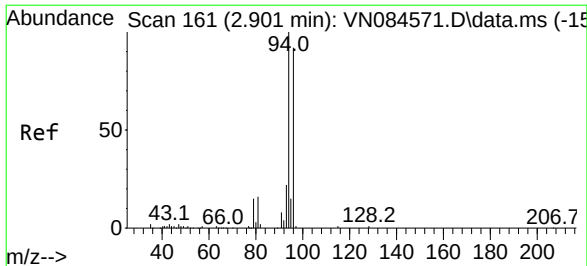


Abundance



Abundance Scan 94 (2.507 min): VN084631.D\data.ms (-45)





#5

Bromomethane

Concen: 17.963 ug/l

RT: 2.901 min Scan# 161

Delta R.T. -0.052 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion: 94 Resp: 22475

Ion Ratio Lower Upper

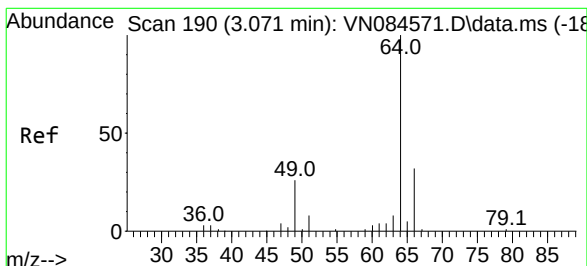
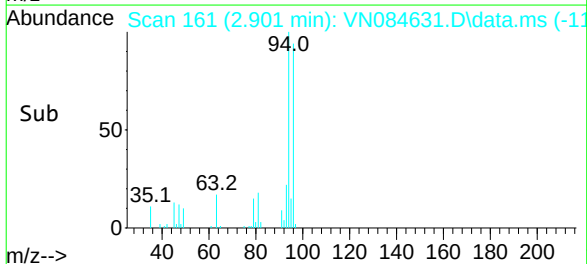
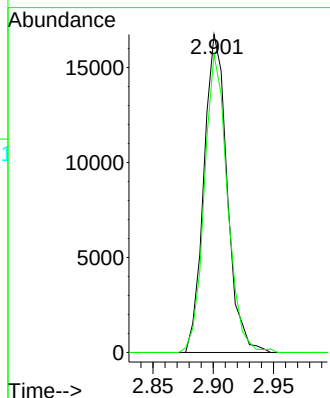
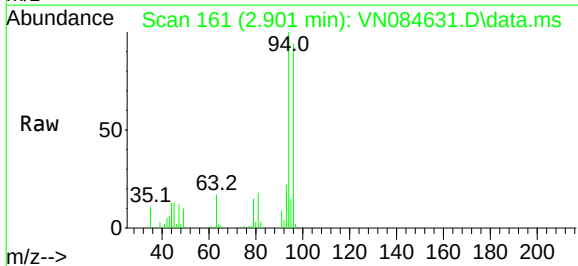
94 100

96 93.8 72.9 109.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#6

Chloroethane

Concen: 18.166 ug/l

RT: 3.077 min Scan# 191

Delta R.T. -0.041 min

Lab File: VN084631.D

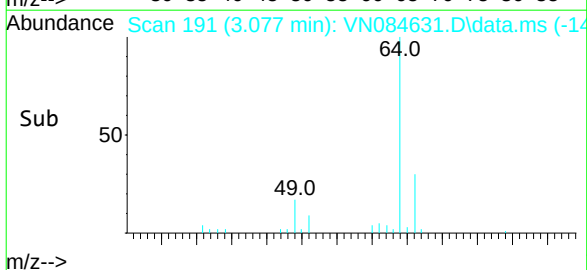
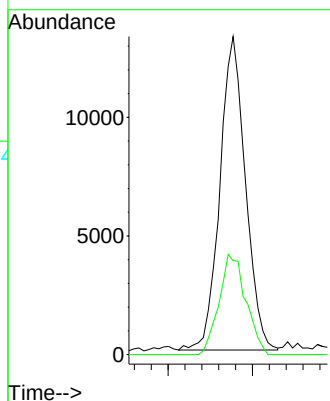
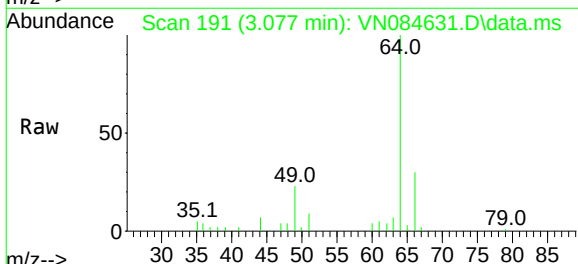
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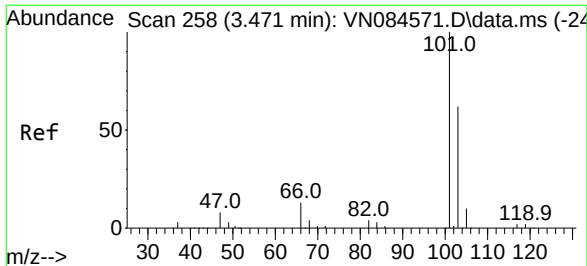
Tgt Ion: 64 Resp: 27854

Ion Ratio Lower Upper

64 100

66 30.0 23.5 35.3





#7

Trichlorofluoromethane

Concen: 18.800 ug/l

RT: 3.471 min Scan# 258

Delta R.T. -0.024 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion:101 Resp: 73135

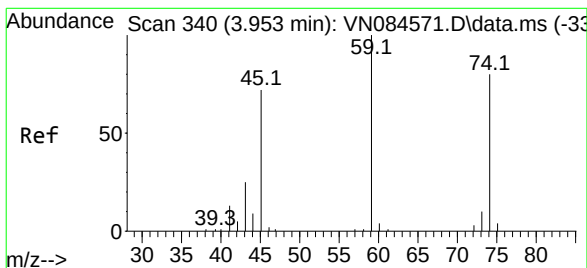
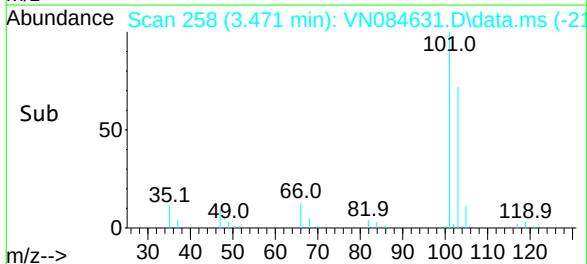
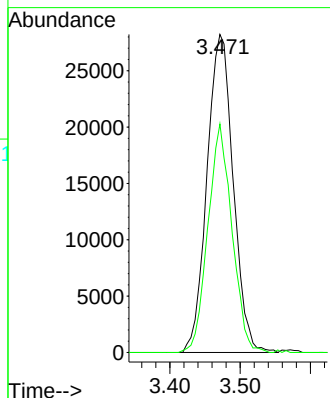
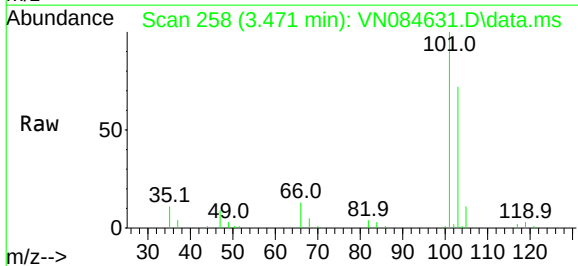
Ion Ratio Lower Upper

101 100

103 71.9 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#8

Diethyl Ether

Concen: 17.848 ug/l

RT: 3.959 min Scan# 341

Delta R.T. 0.000 min

Lab File: VN084631.D

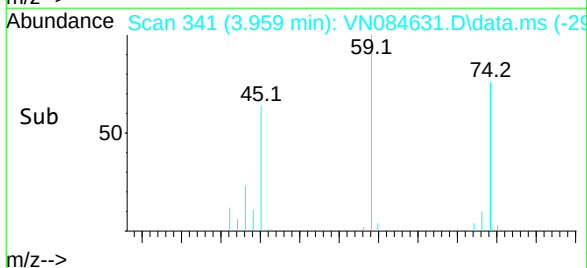
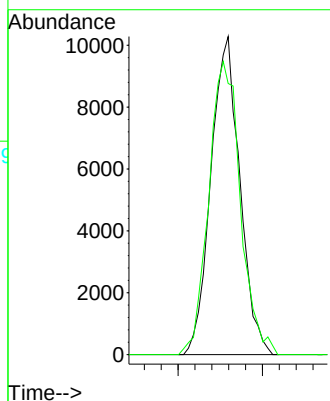
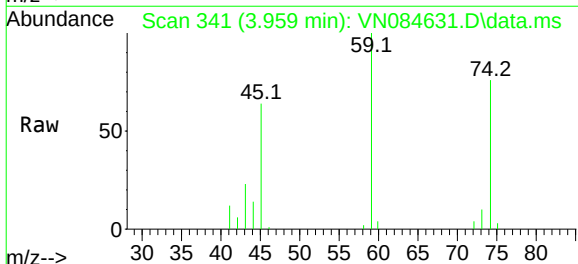
Acq: 01 Nov 2024 12:08

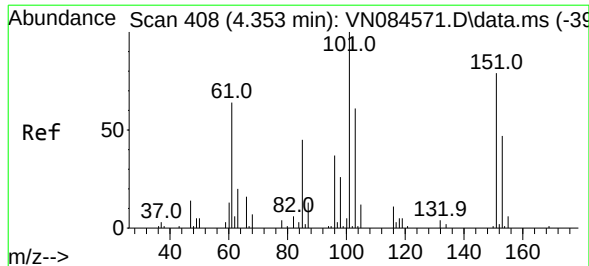
Tgt Ion: 74 Resp: 24492

Ion Ratio Lower Upper

74 100

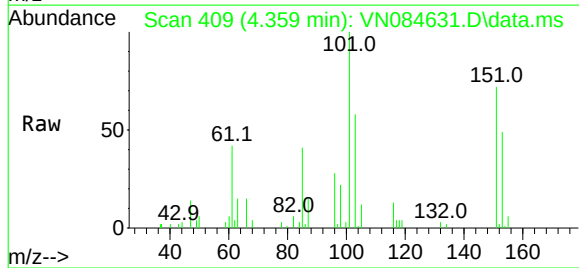
45 100.7 47.7 143.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.348 ug/l
RT: 4.359 min Scan# 408
Delta R.T. -0.012 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

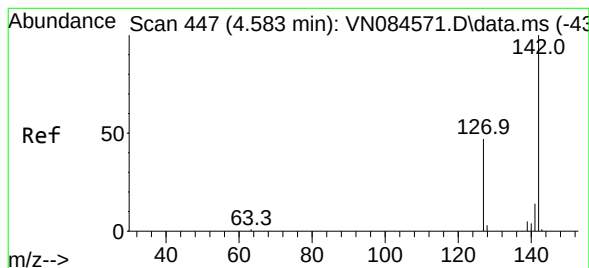
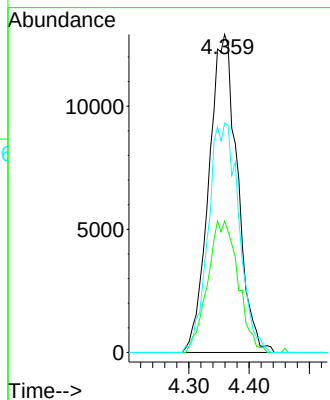
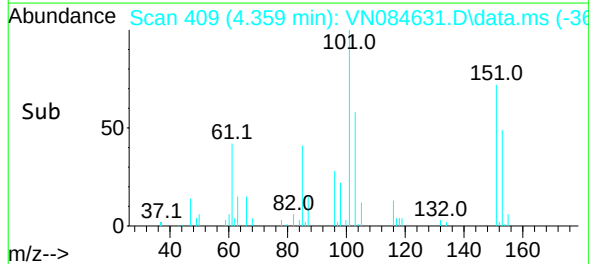
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBS01



Tgt Ion:101 Resp: 42536
Ion Ratio Lower Upper
101 100
85 44.1 36.2 54.4
151 77.3 59.3 88.9

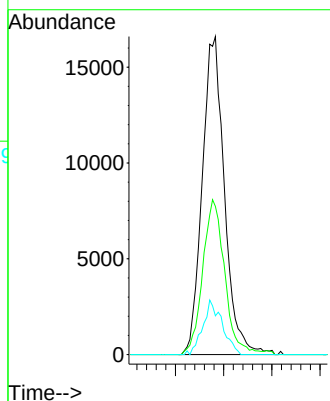
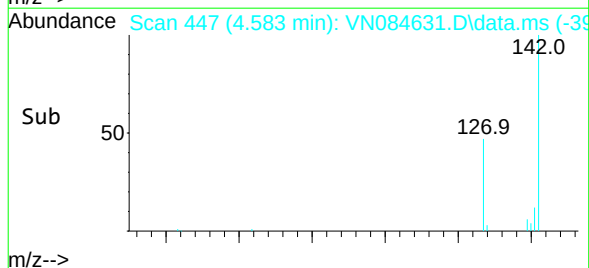
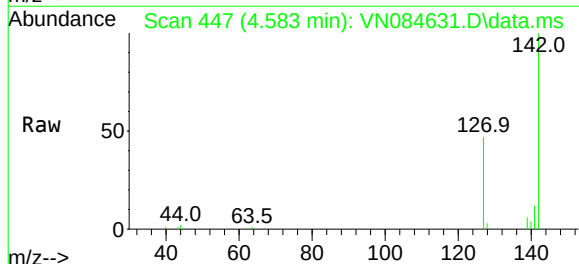
Manual Integrations
APPROVED

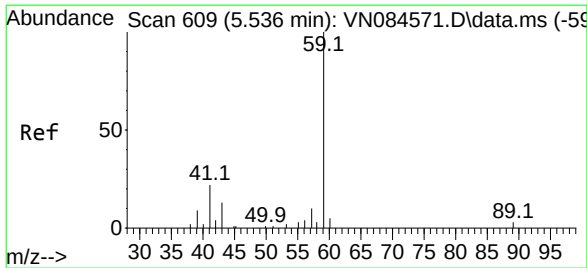
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#10
Methyl Iodide
Concen: 18.118 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.012 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

Tgt Ion:142 Resp: 53226
Ion Ratio Lower Upper
142 100
127 46.6 35.3 52.9
141 12.2 11.0 16.6





#11

Tert butyl alcohol

Concen: 86.672 ug/l

RT: 5.542 min Scan# 61

Delta R.T. 0.018 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion: 59 Resp: 31566

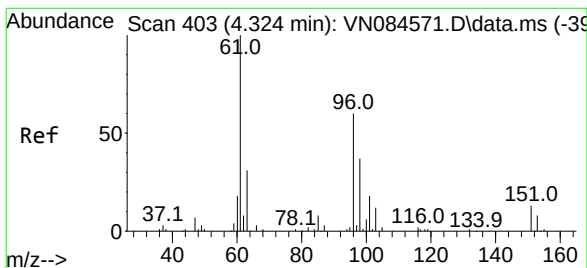
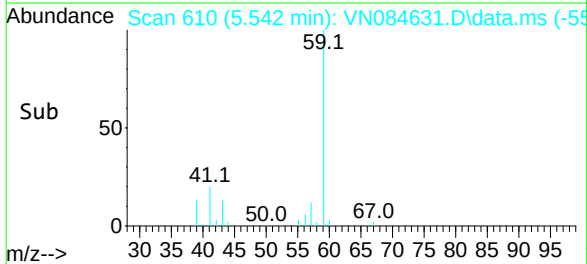
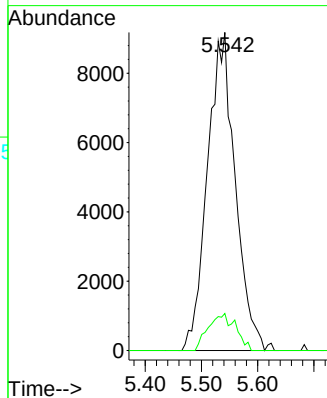
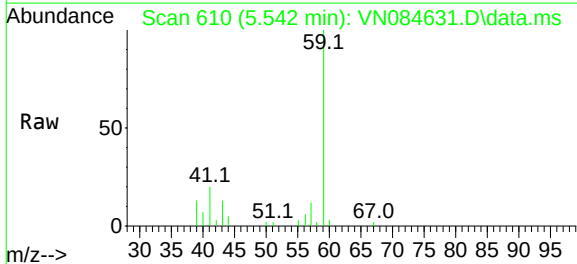
Ion Ratio Lower Upper

59 100

57 11.4 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#12

1,1-Dichloroethene

Concen: 17.695 ug/l

RT: 4.330 min Scan# 404

Delta R.T. -0.012 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

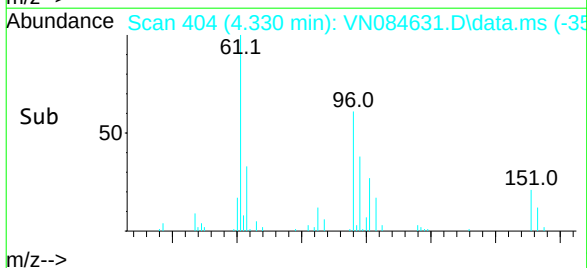
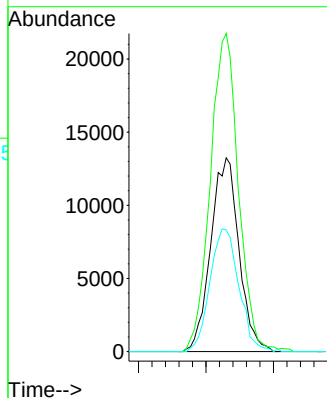
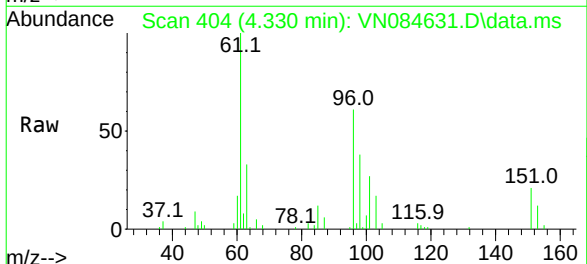
Tgt Ion: 96 Resp: 38487

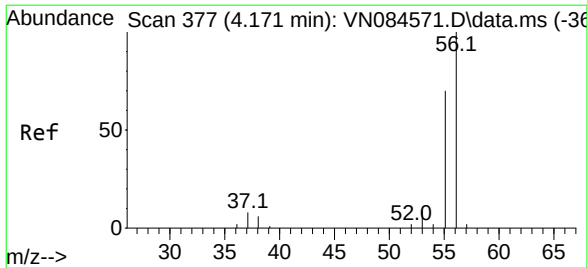
Ion Ratio Lower Upper

96 100

61 164.1 128.6 192.8

98 62.8 51.7 77.5





#13

Acrolein

Concen: 101.438 ug/l

RT: 4.177 min Scan# 37

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion: 56 Resp: 36832

Ion Ratio Lower Upper

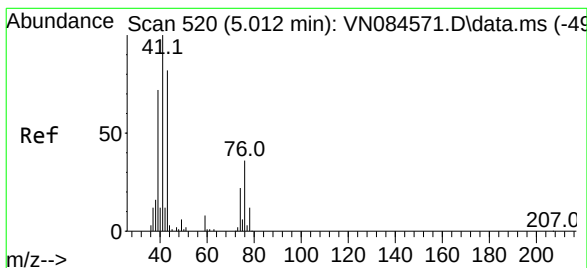
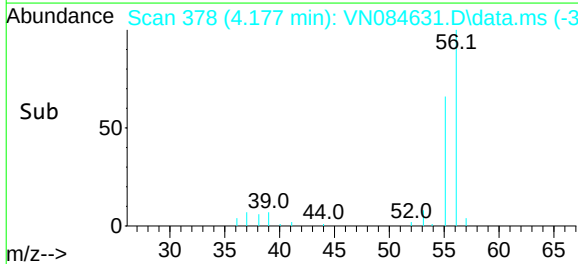
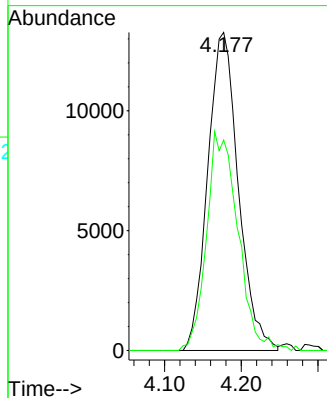
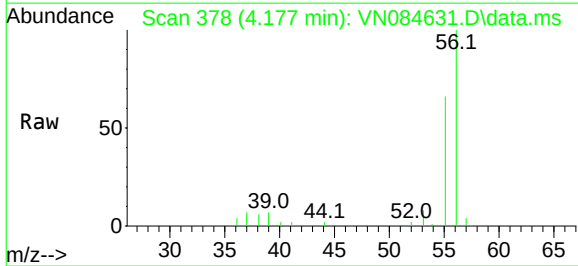
56 100

55 70.1 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
 Supervised By :Semsettin Yesilyurt 11/04/2024



#14

Allyl chloride

Concen: 18.707 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.006 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

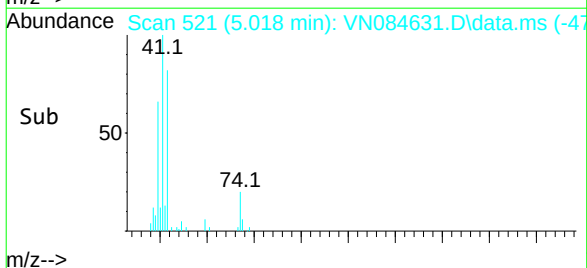
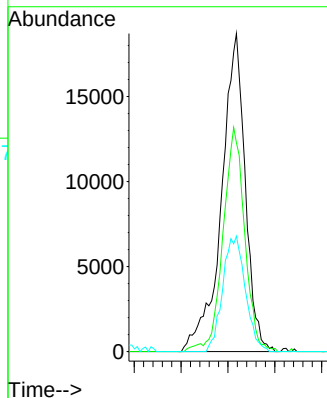
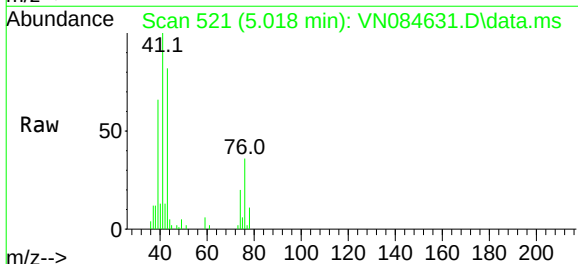
Tgt Ion: 41 Resp: 65987

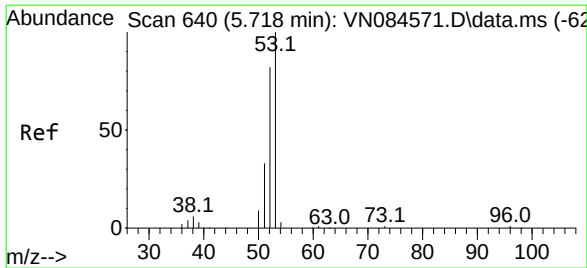
Ion Ratio Lower Upper

41 100

39 64.0 59.0 88.6

76 34.5 29.8 44.6





#15

Acrylonitrile

Concen: 97.908 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion: 53 Resp: 103209

Ion Ratio Lower Upper

53 100

52 80.9 66.2 99.4

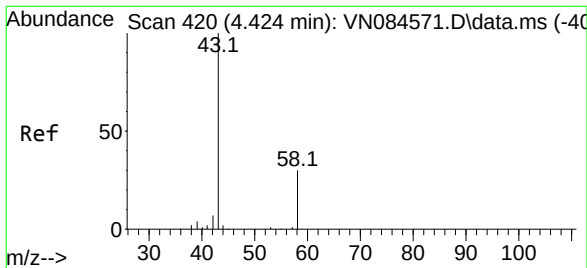
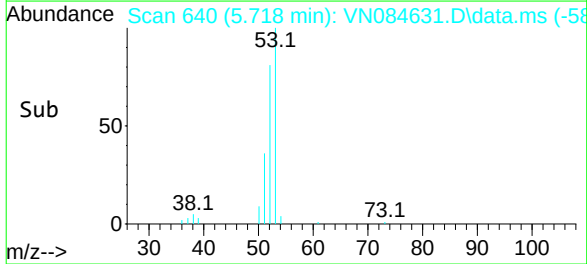
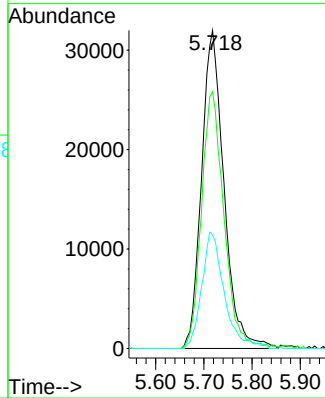
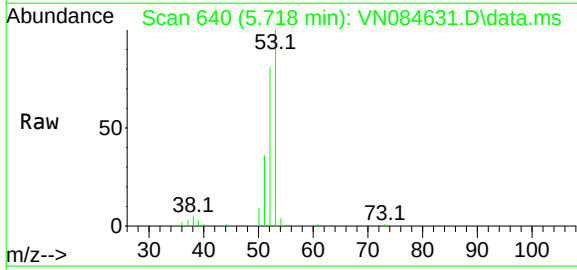
51 36.8 28.8 43.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024



#16

Acetone

Concen: 95.962 ug/l

RT: 4.436 min Scan# 422

Delta R.T. 0.012 min

Lab File: VN084631.D

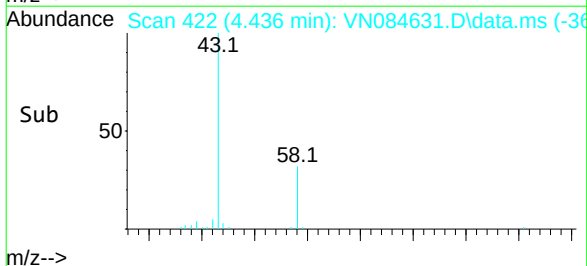
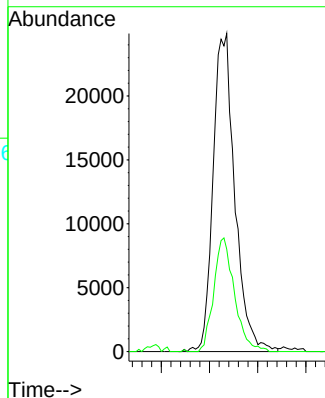
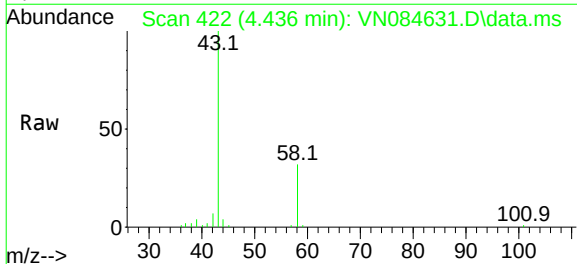
Acq: 01 Nov 2024 12:08

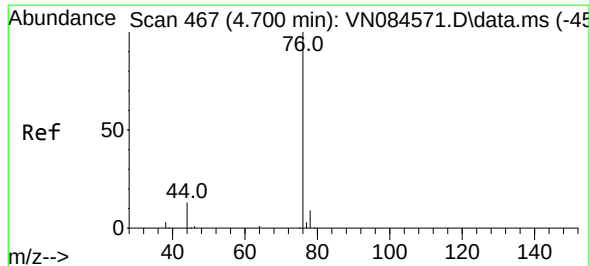
Tgt Ion: 43 Resp: 77869

Ion Ratio Lower Upper

43 100

58 32.2 24.4 36.6





#17

Carbon Disulfide

Concen: 16.728 ug/l

RT: 4.700 min Scan# 467

Delta R.T. -0.011 min

Lab File: VN084631.D

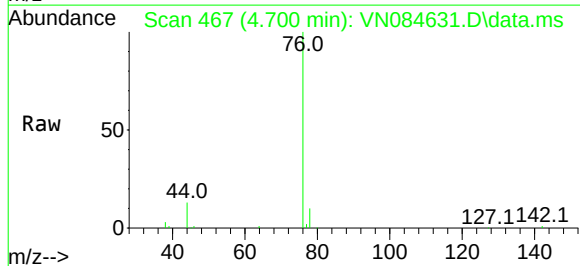
Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01



Tgt Ion: 76 Resp: 112044

Ion Ratio Lower Upper

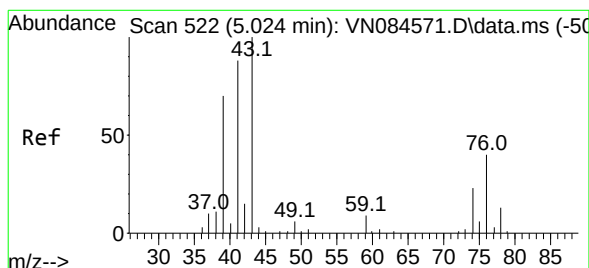
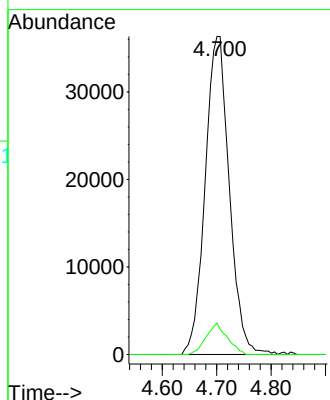
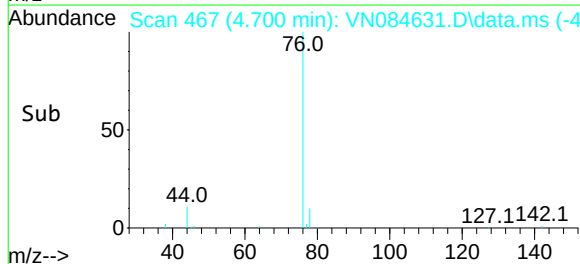
76 100

78 9.9 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#18

Methyl Acetate

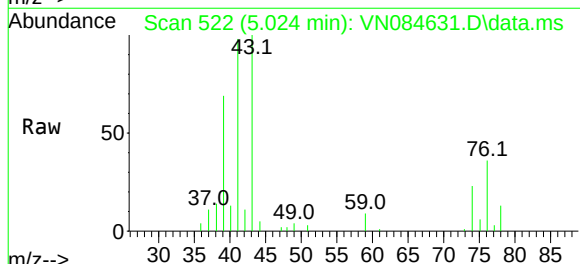
Concen: 16.052 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

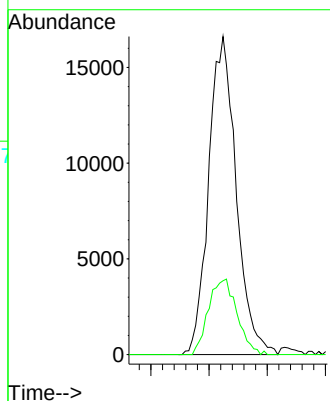
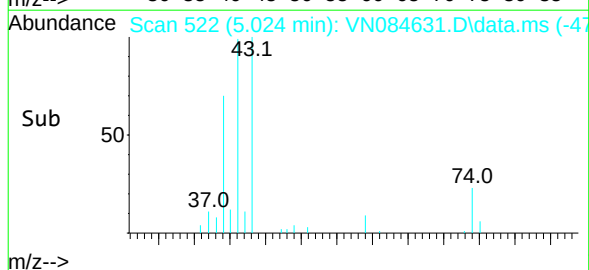


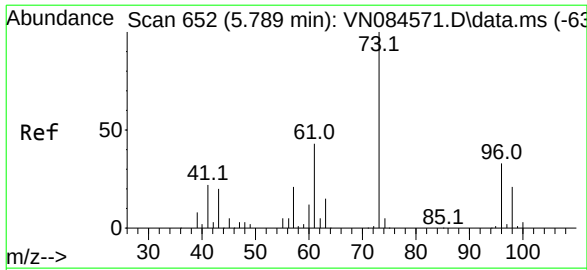
Tgt Ion: 43 Resp: 54615

Ion Ratio Lower Upper

43 100

74 24.6 19.2 28.8





#19

Methyl tert-butyl Ether

Concen: 19.135 ug/l

RT: 5.789 min Scan# 65

Delta R.T. -0.006 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion: 73 Resp: 127569

Ion Ratio Lower Upper

73 100

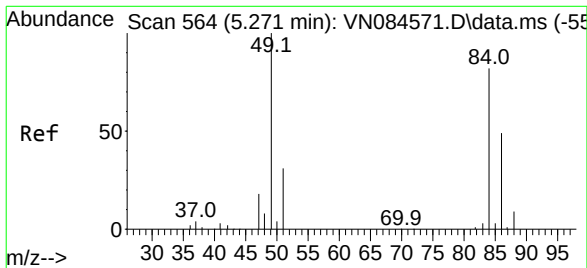
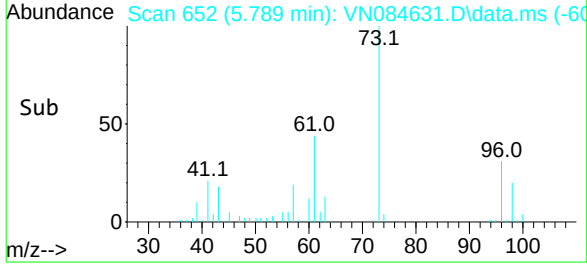
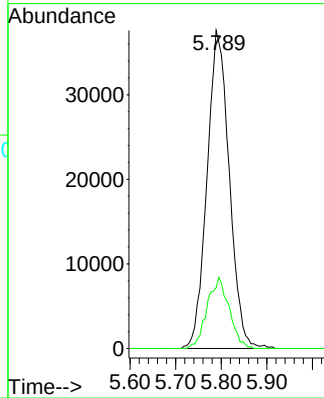
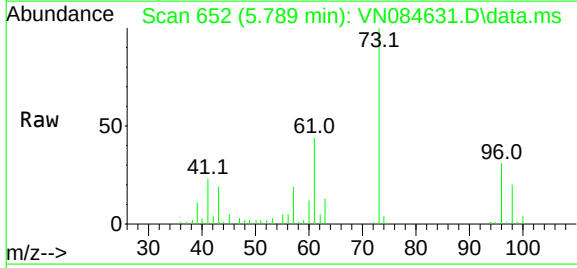
57 19.2 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024



#20

Methylene Chloride

Concen: 18.961 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.006 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Tgt Ion: 84 Resp: 46004

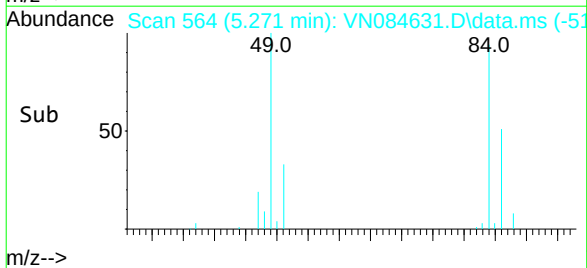
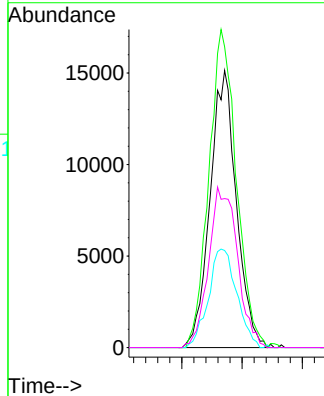
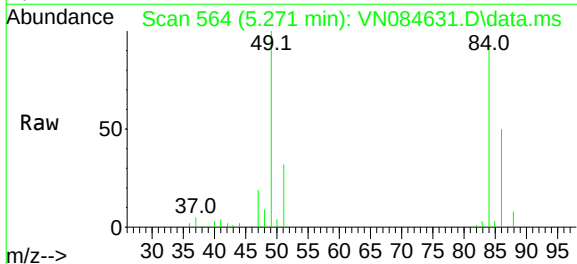
Ion Ratio Lower Upper

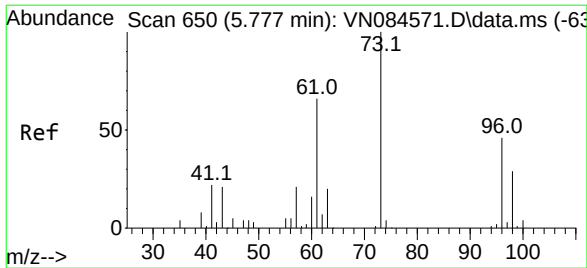
84 100

49 108.5 107.2 160.8

51 35.0 31.8 47.8

86 53.8 52.9 79.3





#21

trans-1,2-Dichloroethene

Concen: 18.481 ug/l

RT: 5.777 min Scan# 650

Delta R.T. -0.012 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion: 96 Resp: 41275

Ion Ratio Lower Upper

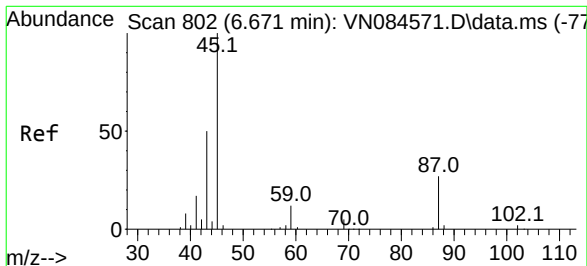
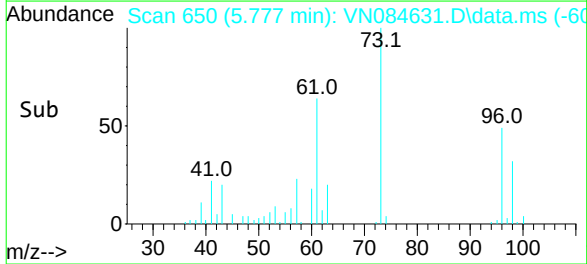
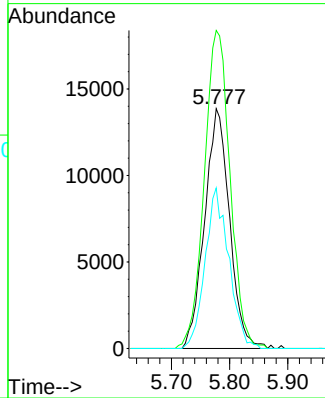
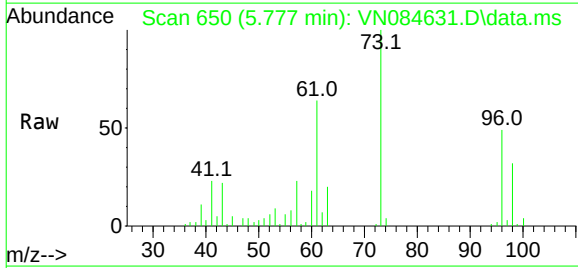
96 100

61 132.6 108.4 162.6

98 66.9 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#22

Diisopropyl ether

Concen: 19.469 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Tgt Ion: 45 Resp: 136454

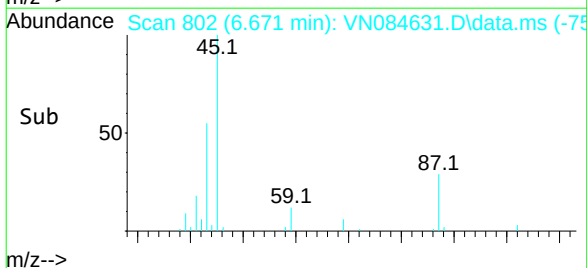
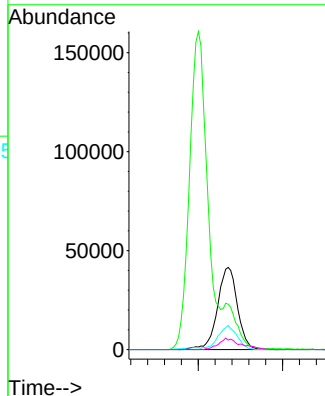
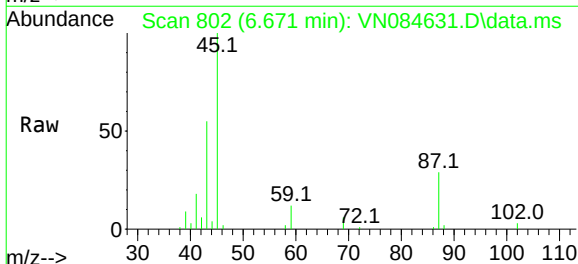
Ion Ratio Lower Upper

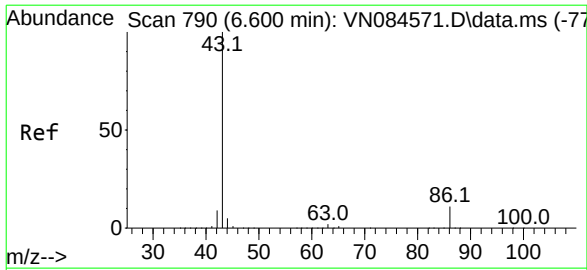
45 100

43 54.2 42.3 63.5

87 29.4 21.8 32.6

59 11.6 9.6 14.4





#23

Vinyl Acetate

Concen: 97.108 ug/l

RT: 6.600 min Scan# 790

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion: 43 Resp: 469366

Ion Ratio Lower Upper

43 100

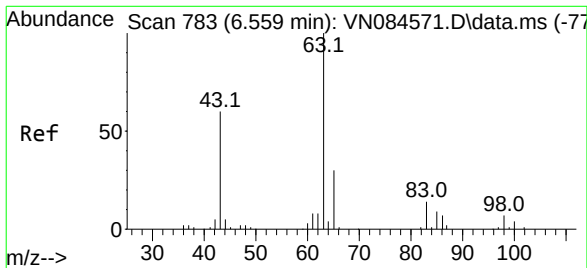
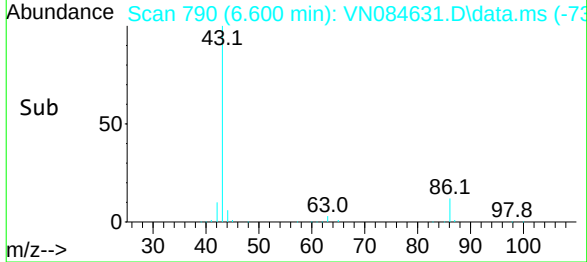
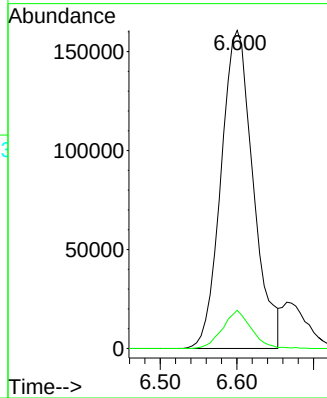
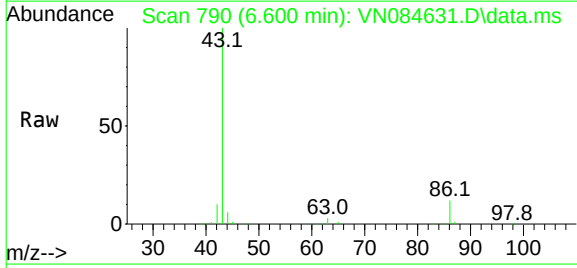
86 12.0 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024



#24

1,1-Dichloroethane

Concen: 19.063 ug/l

RT: 6.565 min Scan# 784

Delta R.T. -0.006 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

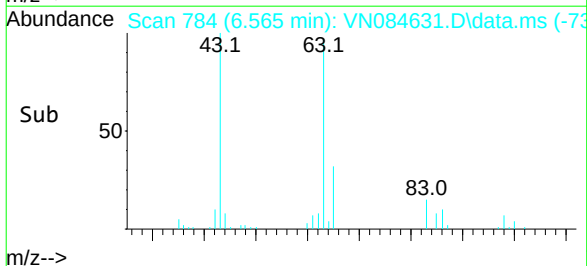
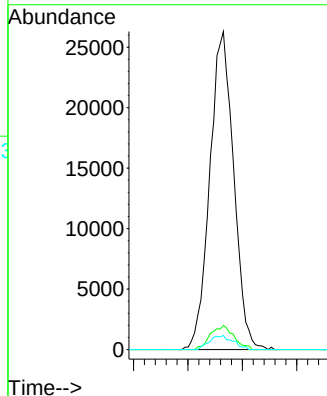
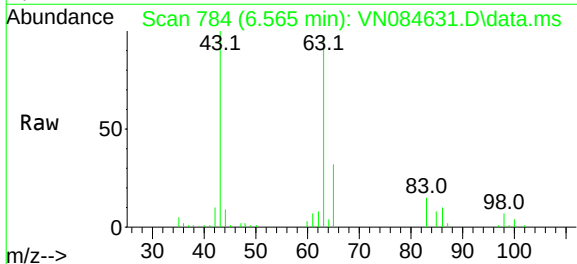
Tgt Ion: 63 Resp: 80215

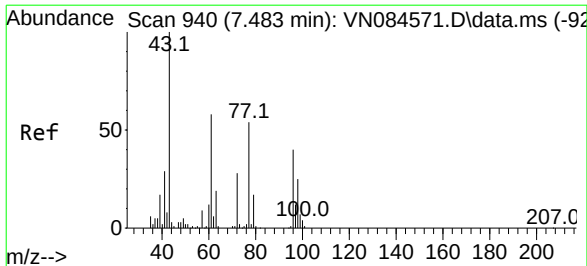
Ion Ratio Lower Upper

63 100

98 7.6 3.4 10.2

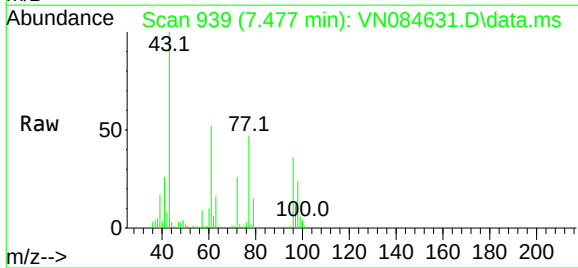
100 4.5 2.0 5.8





#25
2-Butanone
Concen: 96.713 ug/l
RT: 7.477 min Scan# 931
Delta R.T. -0.006 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

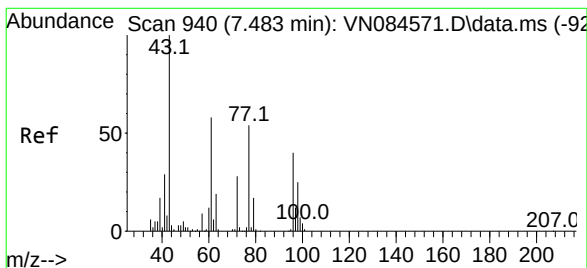
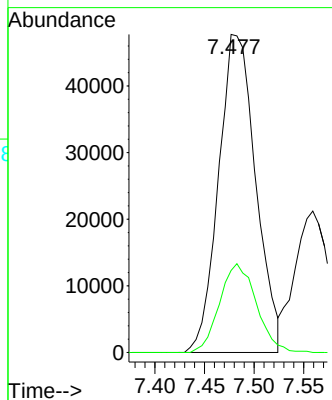
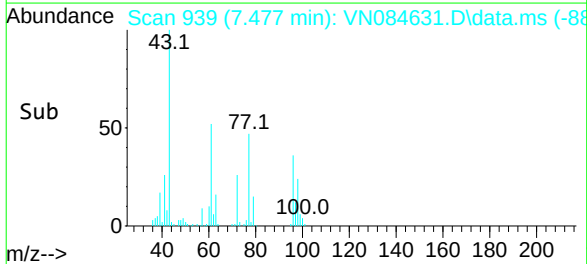
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBS01



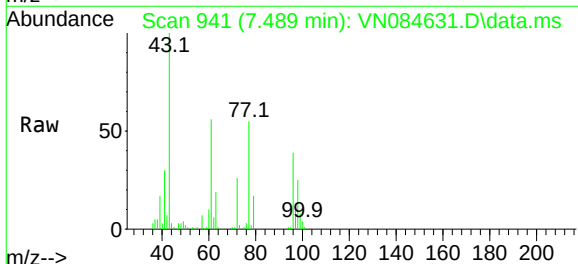
Tgt Ion: 43 Resp: 124468
Ion Ratio Lower Upper
43 100
72 25.8 21.4 32.2

Manual Integrations
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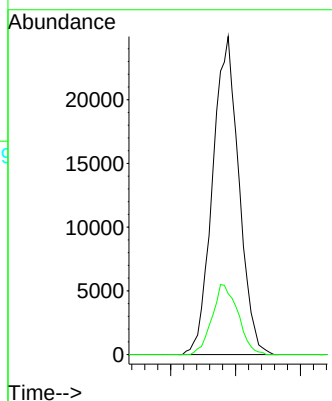
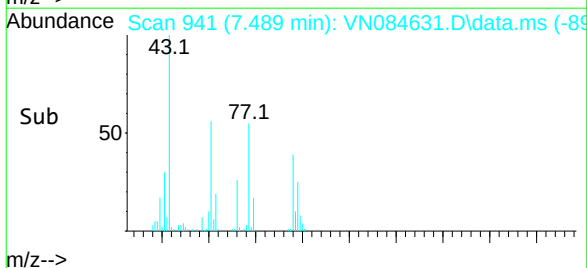
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

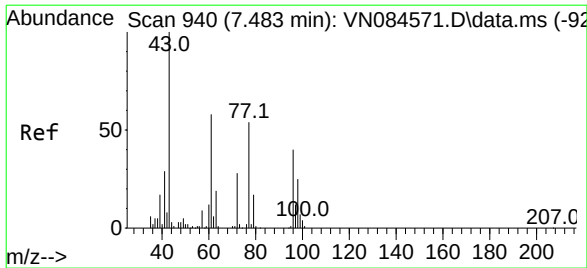


#26
2,2-Dichloropropane
Concen: 19.185 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08



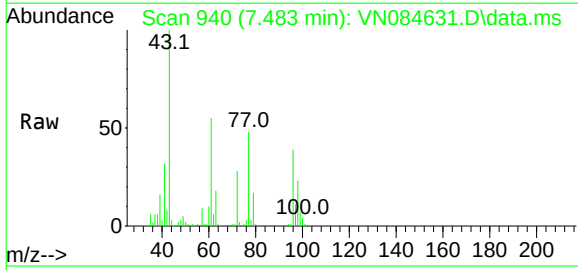
Tgt Ion: 77 Resp: 70266
Ion Ratio Lower Upper
77 100
97 21.7 10.8 32.3





#27
cis-1,2-Dichloroethene
Concen: 18.421 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

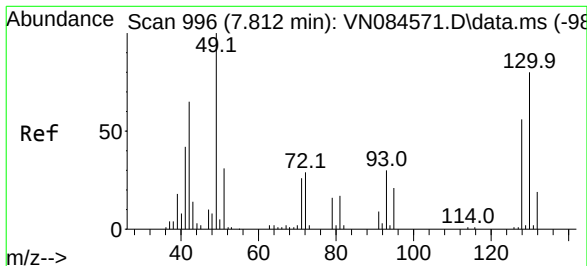
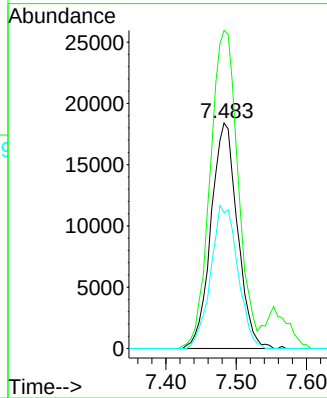
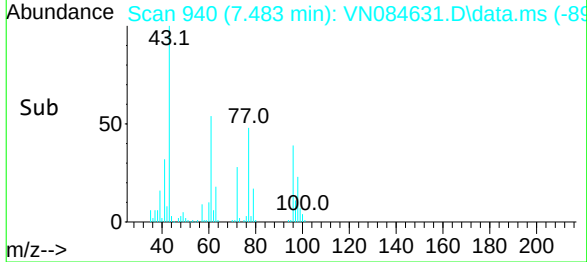
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBS01



Tgt Ion: 96 Resp: 48039
Ion Ratio Lower Upper
96 100
61 148.4 0.0 301.8
98 64.9 0.0 128.2

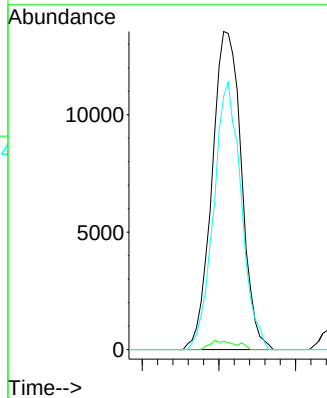
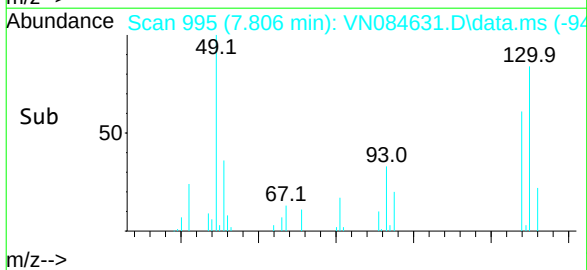
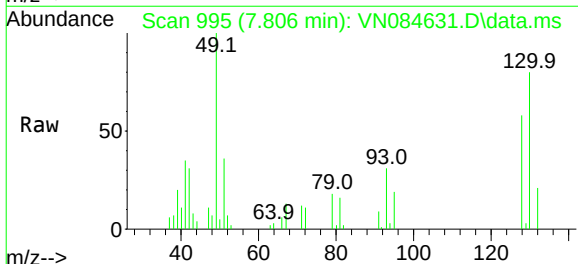
Manual Integrations
APPROVED

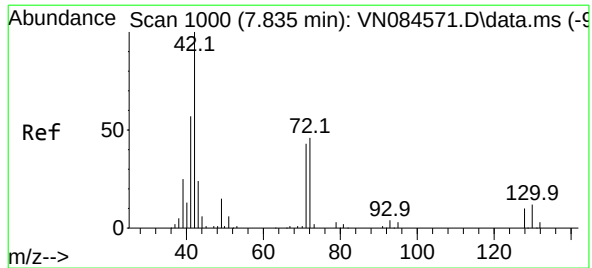
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#28
Bromochloromethane
Concen: 21.487 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.006 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

Tgt Ion: 49 Resp: 36023
Ion Ratio Lower Upper
49 100
129 2.5 0.0 3.6
130 78.7 58.0 87.0





#29

Tetrahydrofuran

Concen: 99.446 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion: 42 Resp: 84907

Ion Ratio Lower Upper

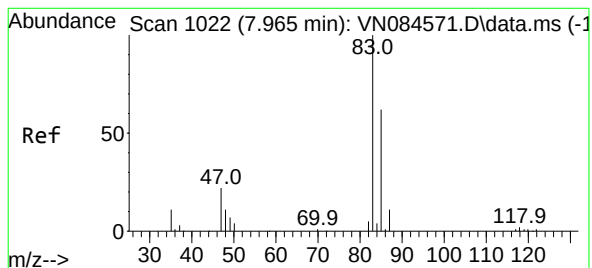
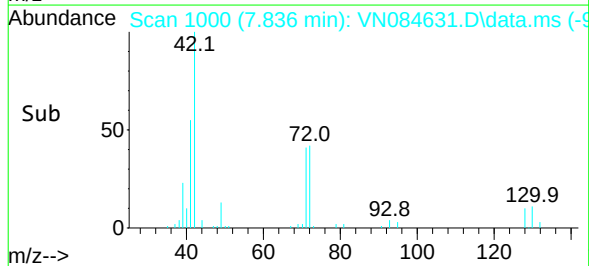
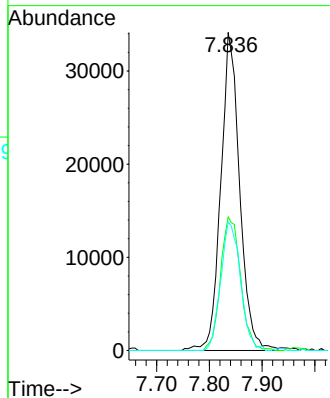
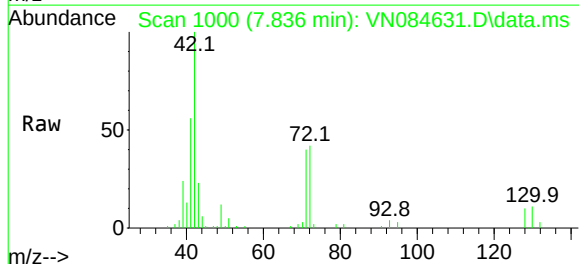
42 100

72 44.5 34.6 51.8

71 42.4 32.2 48.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#30

Chloroform

Concen: 19.599 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN084631.D

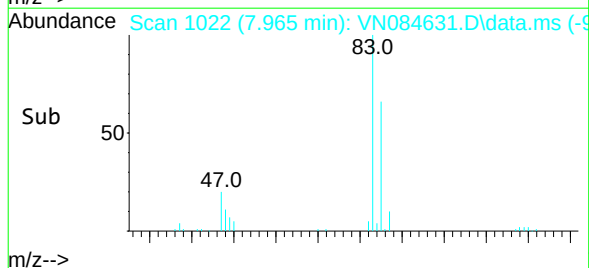
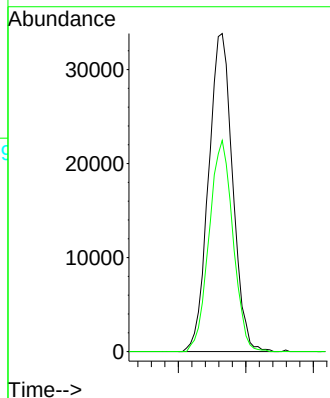
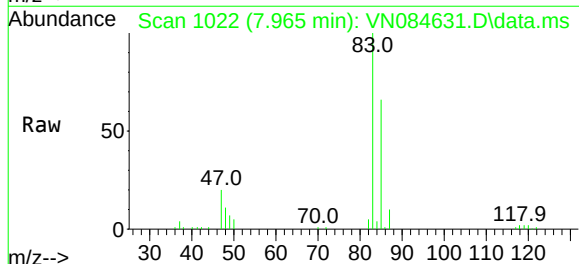
Acq: 01 Nov 2024 12:08

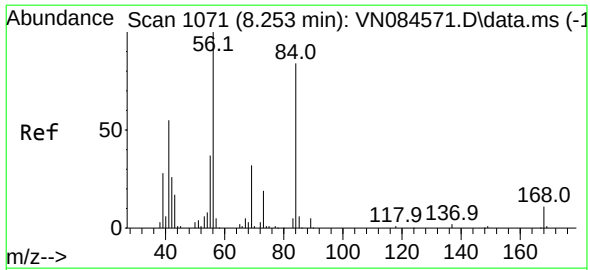
Tgt Ion: 83 Resp: 83941

Ion Ratio Lower Upper

83 100

85 66.4 51.0 76.4





#31

Cyclohexane

Concen: 18.324 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion: 56 Resp: 69789

Ion Ratio Lower Upper

56 100

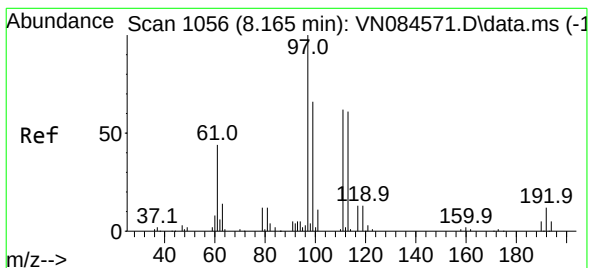
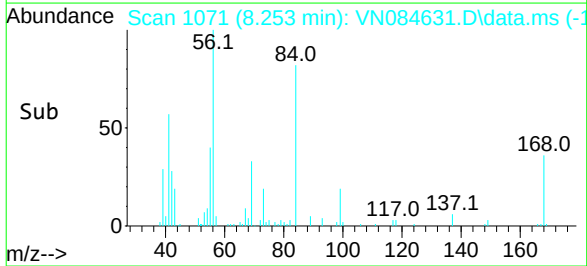
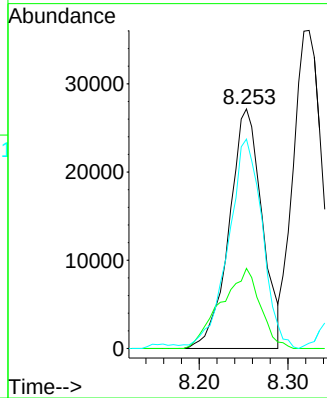
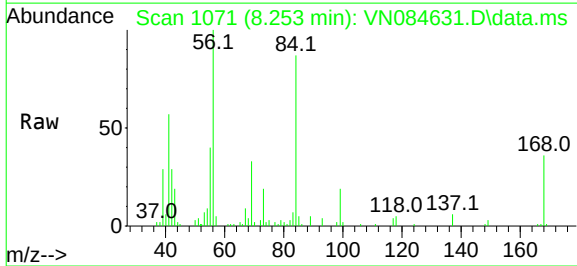
69 33.4 23.8 35.6

84 86.2 68.8 103.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
 Supervised By :Semsettin Yesilyurt 11/04/2024



#32

1,1,1-Trichloroethane

Concen: 19.362 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

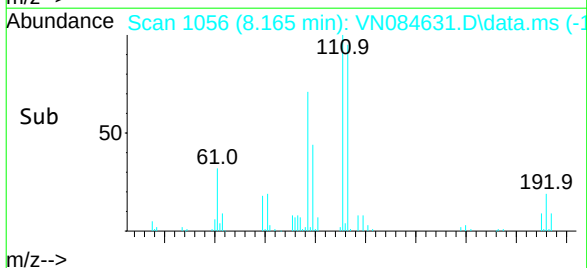
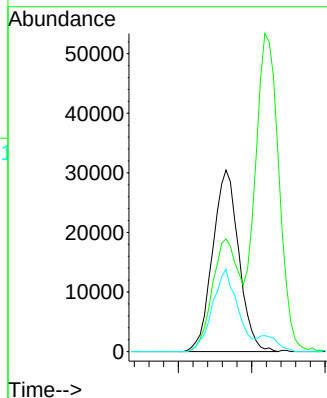
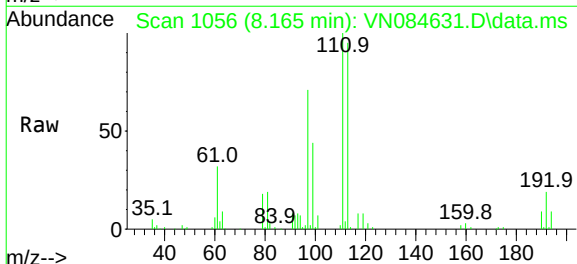
Tgt Ion: 97 Resp: 75478

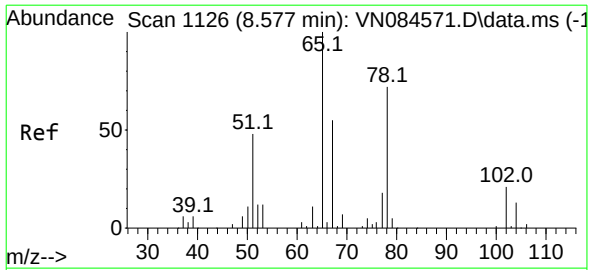
Ion Ratio Lower Upper

97 100

99 63.2 51.2 76.8

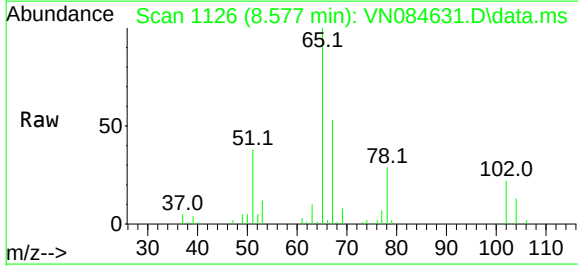
61 44.4 37.5 56.3





#33
1,2-Dichloroethane-d4
Concen: 44.315 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

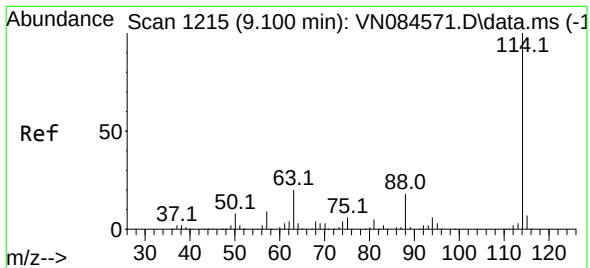
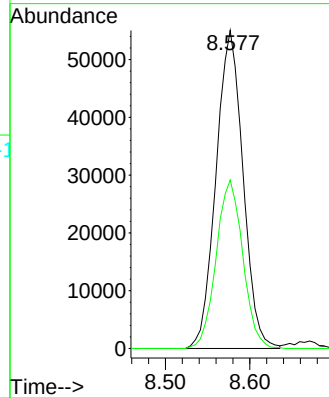
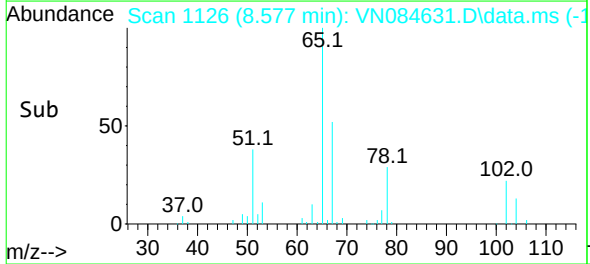
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBS01



Tgt Ion: 65 Resp: 122248
Ion Ratio Lower Upper
65 100
67 52.2 0.0 102.0

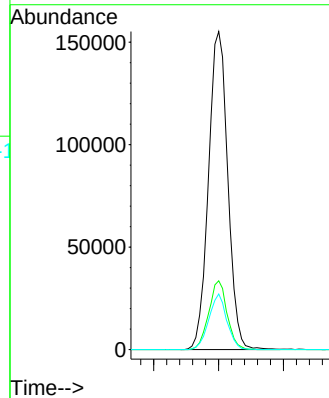
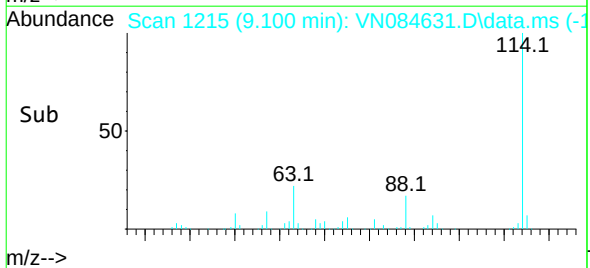
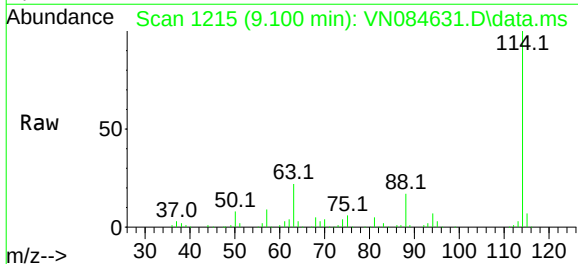
Manual Integrations
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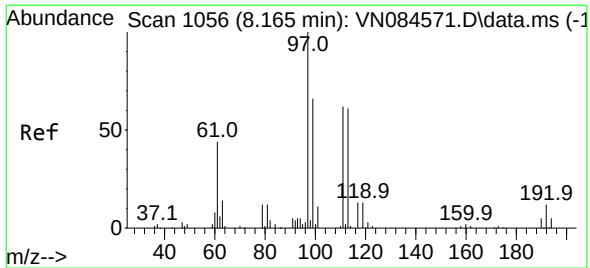
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

Tgt Ion:114 Resp: 320452
Ion Ratio Lower Upper
114 100
63 21.6 0.0 43.8
88 17.5 0.0 31.6





#35

Dibromofluoromethane

Concen: 45.147 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion:113 Resp: 97927

Ion Ratio Lower Upper

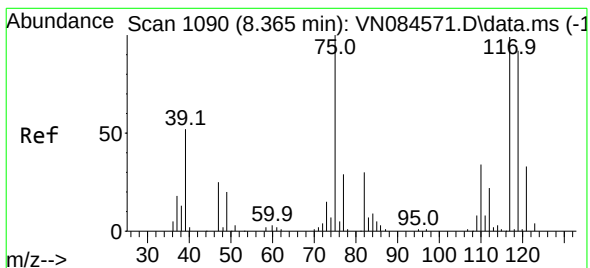
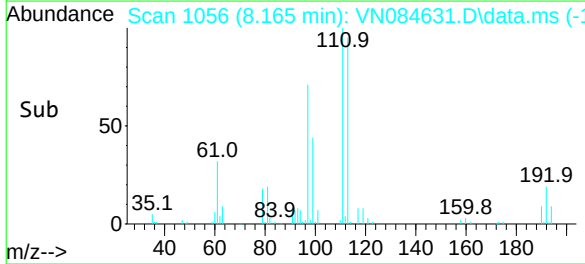
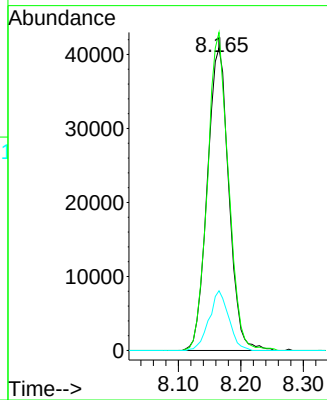
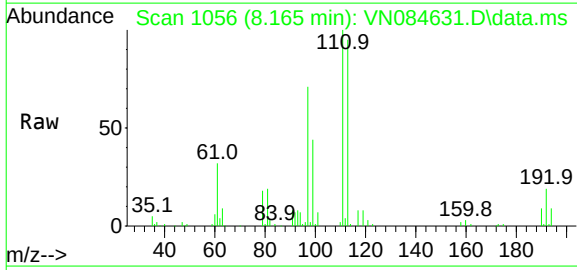
113 100

111 102.6 83.3 124.9

192 18.1 13.5 20.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#36

1,1-Dichloropropene

Concen: 18.275 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.006 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

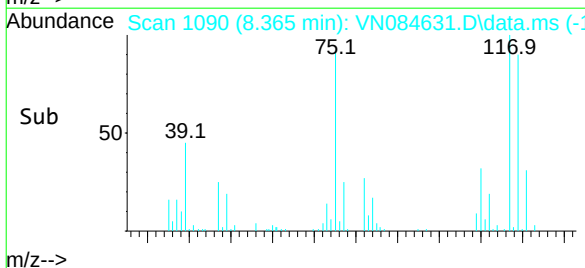
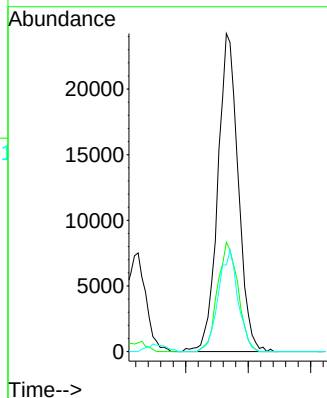
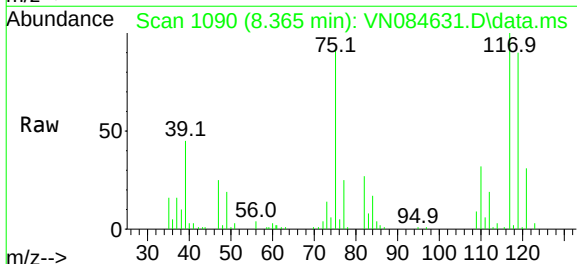
Tgt Ion: 75 Resp: 54975

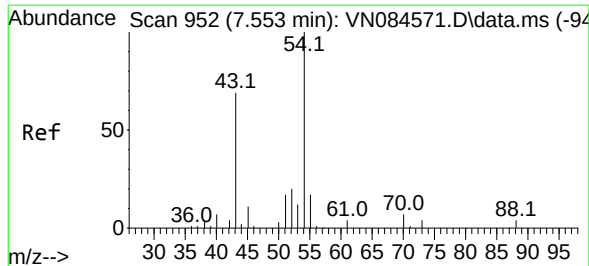
Ion Ratio Lower Upper

75 100

110 34.6 16.9 50.7

77 30.8 24.7 37.1





#37

Ethyl Acetate

Concen: 20.228 ug/l

RT: 7.559 min Scan# 952

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

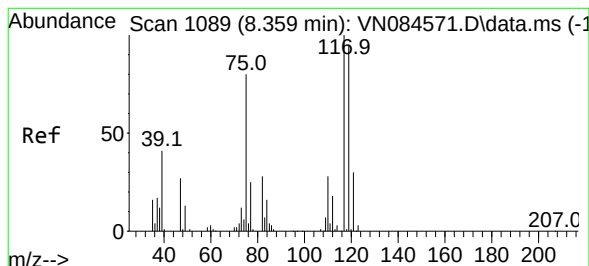
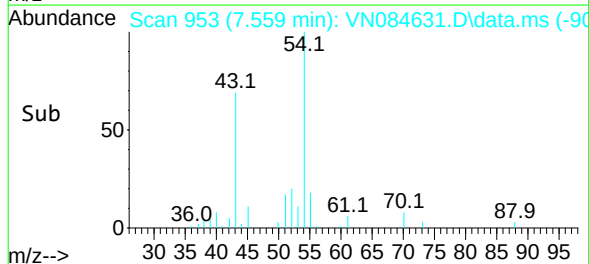
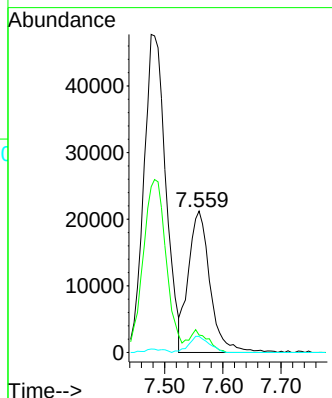
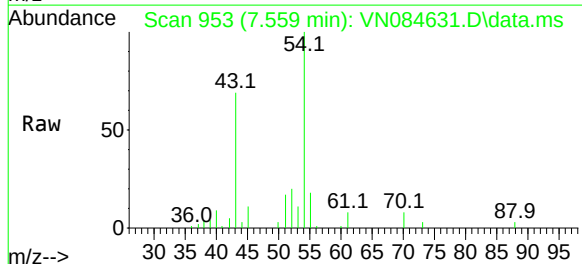
ClientSampleId :

VN1101WBS01

Tgt Ion:	43	Resp:	55210
Ion	Ratio	Lower	Upper
43	100		
61	11.4	10.7	16.1
70	10.6	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#38

Carbon Tetrachloride

Concen: 19.742 ug/l

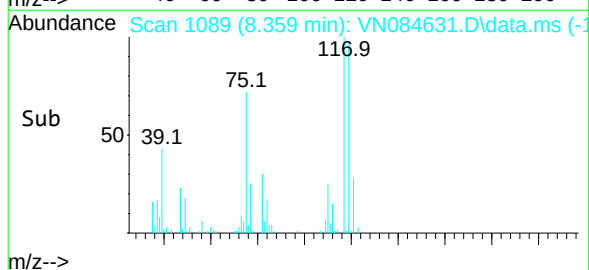
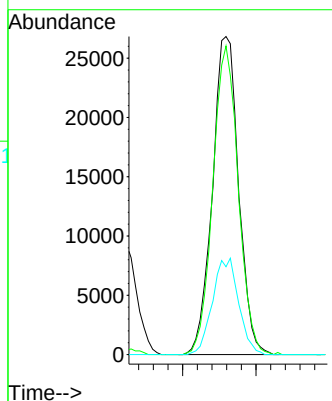
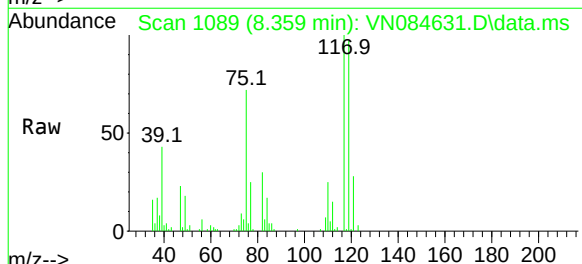
RT: 8.359 min Scan# 1089

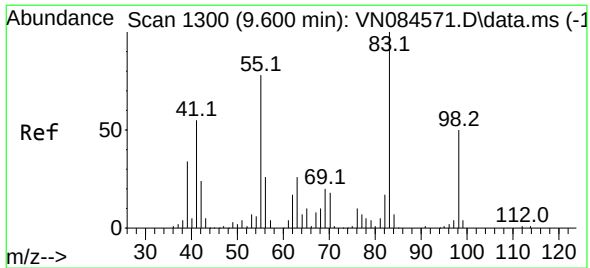
Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

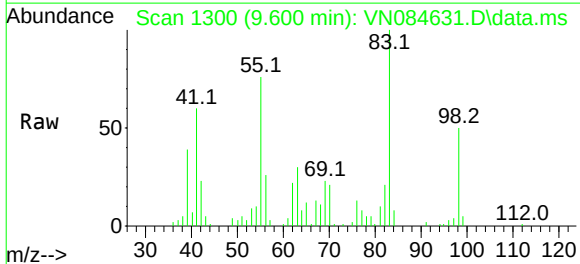
Tgt Ion:	117	Resp:	66382
Ion	Ratio	Lower	Upper
117	100		
119	97.0	78.7	118.1
121	27.6	24.4	36.6





#39
Methylcyclohexane
Concen: 18.434 ug/l
RT: 9.600 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

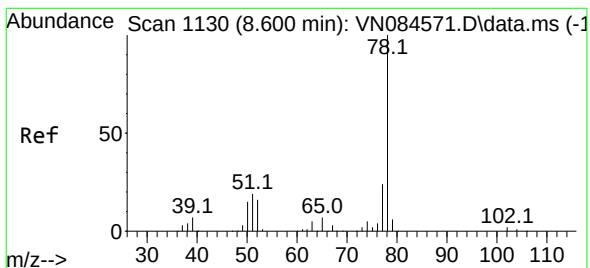
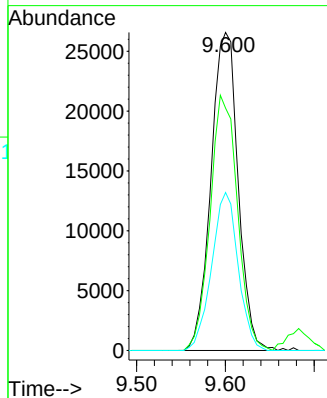
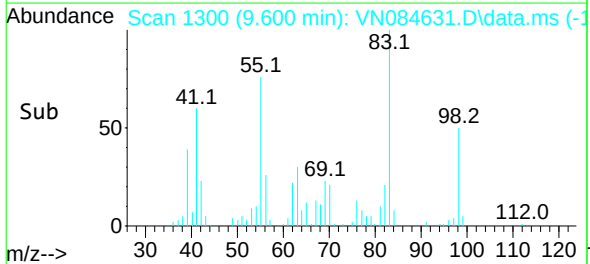
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBS01



Tgt Ion: 83 Resp: 56415
Ion Ratio Lower Upper
83 100
55 76.2 62.8 94.2
98 49.7 38.8 58.2

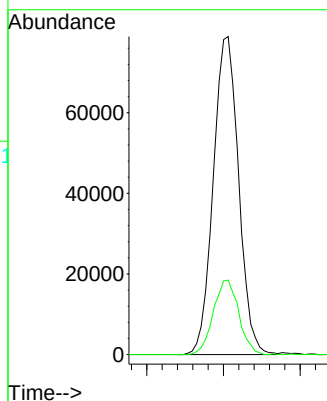
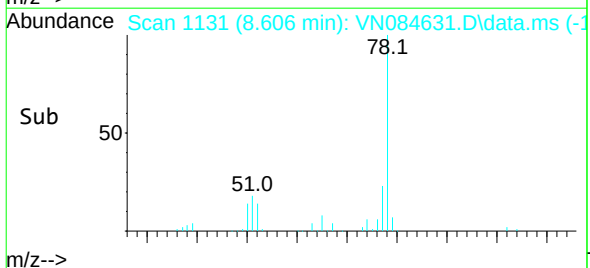
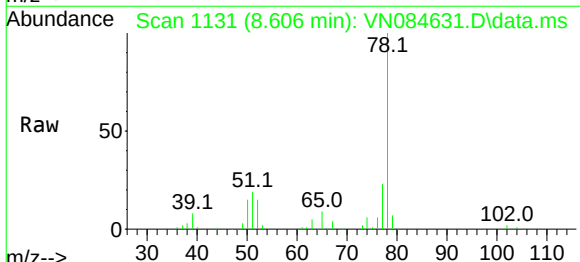
Manual Integrations
APPROVED

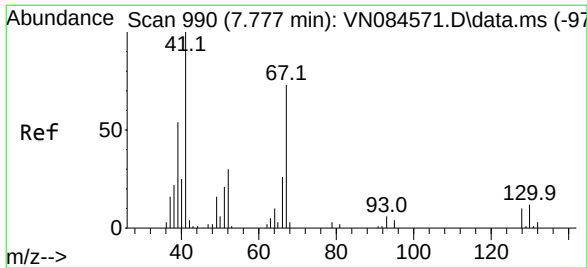
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#40
Benzene
Concen: 18.756 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

Tgt Ion: 78 Resp: 181197
Ion Ratio Lower Upper
78 100
77 23.4 19.1 28.7





#41

Methacrylonitrile

Concen: 20.818 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion: 41 Resp: 30555

Ion Ratio Lower Upper

41 100

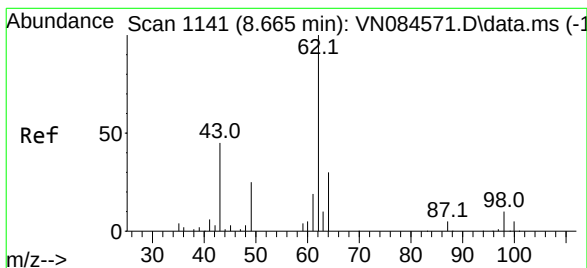
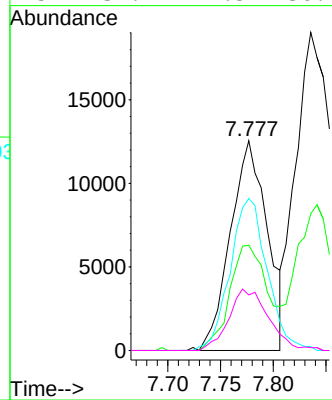
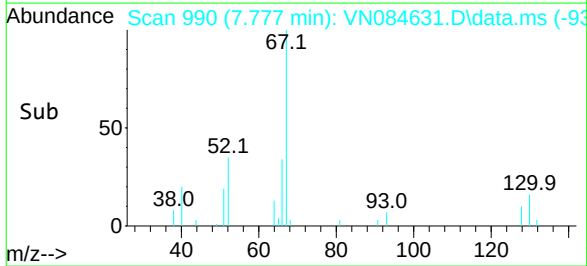
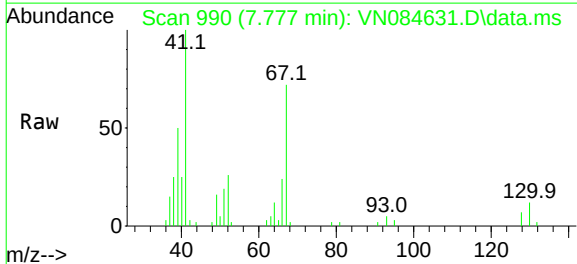
39 51.8 43.3 64.9

67 72.7 56.1 84.1

52 31.7 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#42

1,2-Dichloroethane

Concen: 19.472 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.006 min

Lab File: VN084631.D

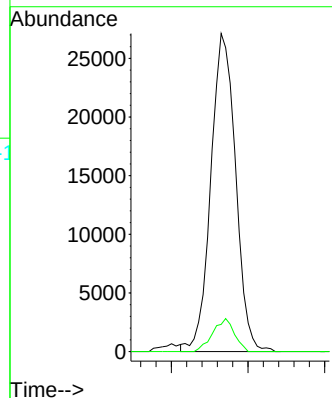
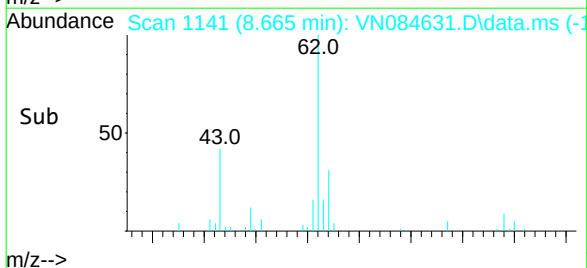
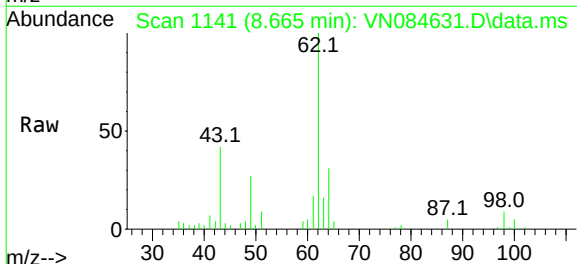
Acq: 01 Nov 2024 12:08

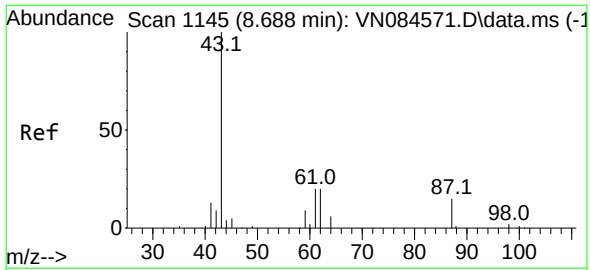
Tgt Ion: 62 Resp: 60923

Ion Ratio Lower Upper

62 100

98 9.0 0.0 18.2





#43

Isopropyl Acetate

Concen: 17.507 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion: 43 Resp: 91436

Ion Ratio Lower Upper

43 100

61 27.1 20.4 30.6

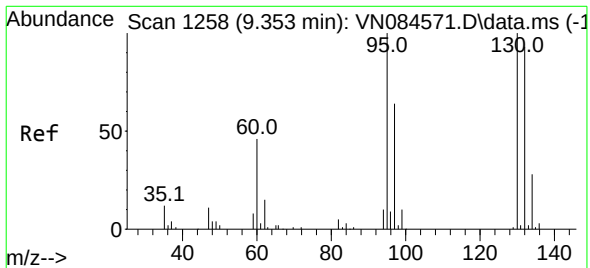
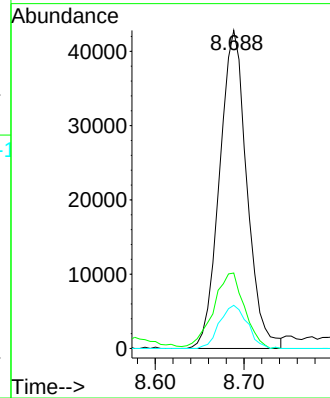
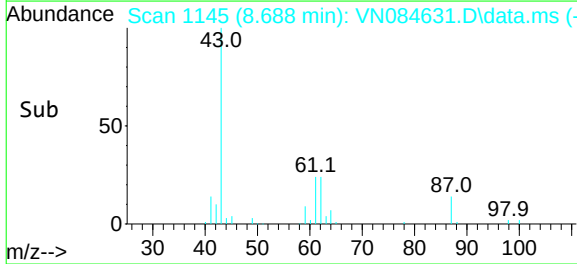
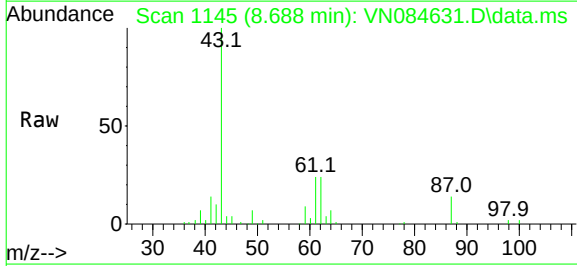
87 13.8 10.3 15.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024



#44

Trichloroethene

Concen: 18.446 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN084631.D

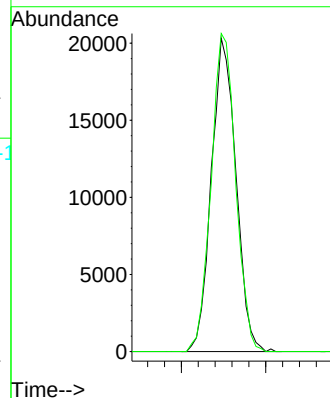
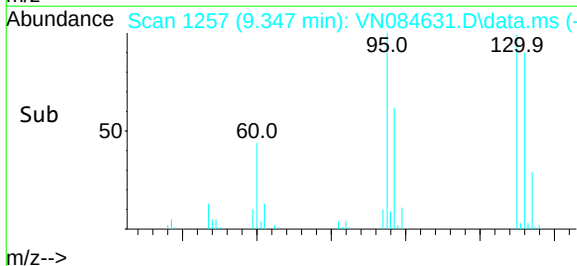
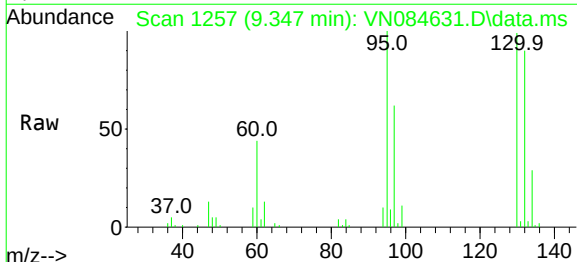
Acq: 01 Nov 2024 12:08

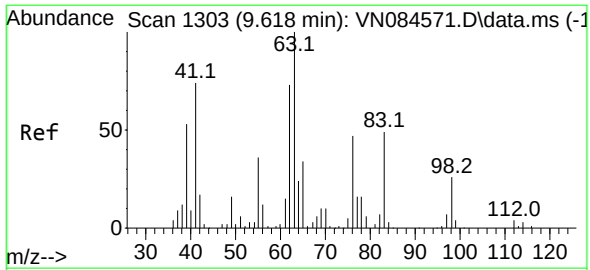
Tgt Ion:130 Resp: 41099

Ion Ratio Lower Upper

130 100

95 101.5 0.0 203.0





#45

1,2-Dichloropropane

Concen: 19.073 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion: 63 Resp: 43224

Ion Ratio Lower Upper

63 100

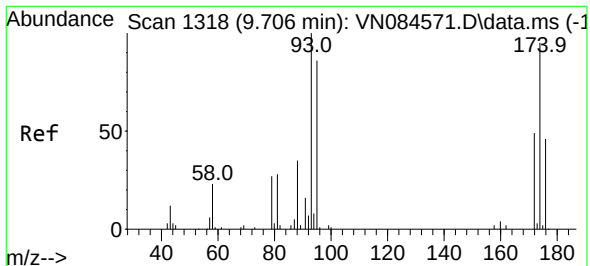
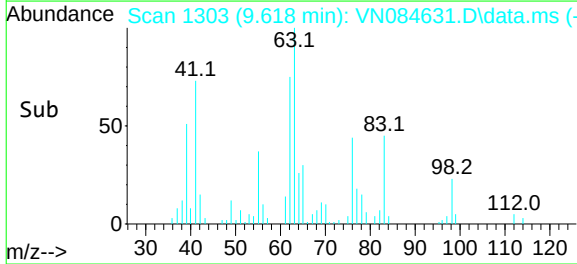
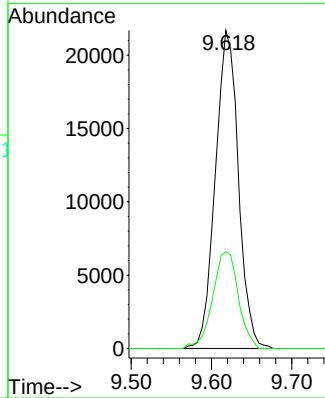
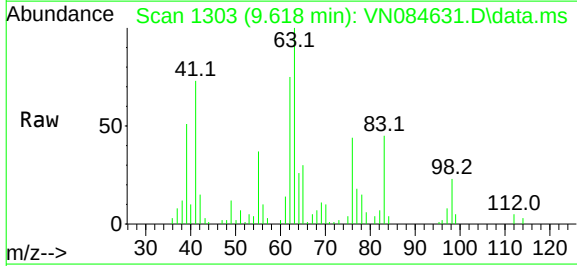
65 30.4 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024



#46

Dibromomethane

Concen: 19.005 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

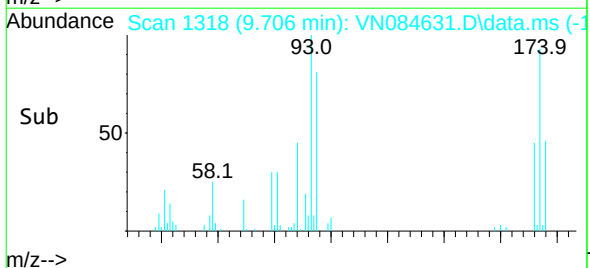
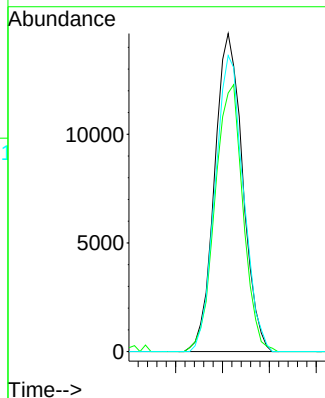
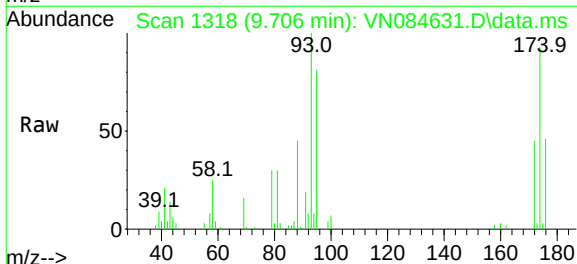
Tgt Ion: 93 Resp: 30391

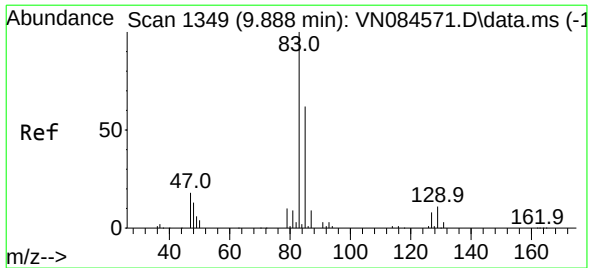
Ion Ratio Lower Upper

93 100

95 84.0 65.0 97.4

174 93.6 71.8 107.8





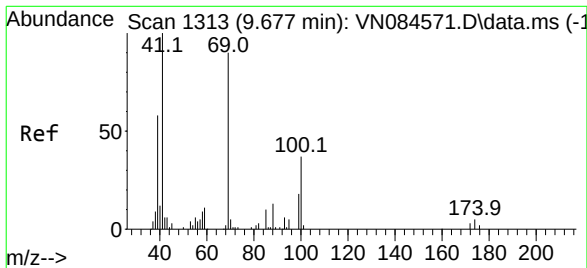
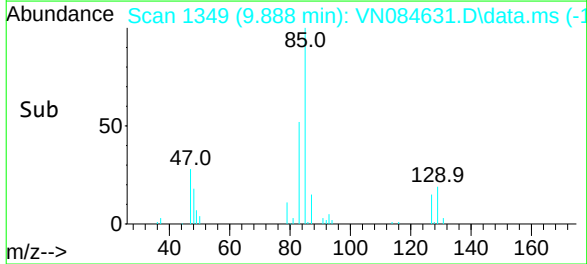
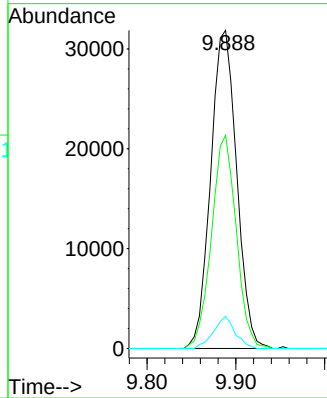
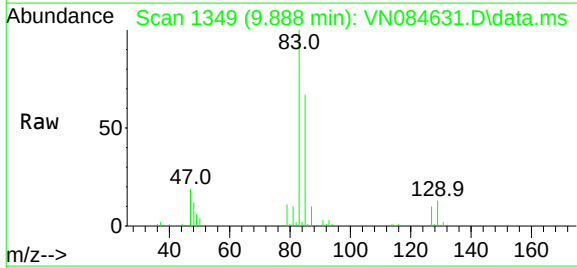
#47
Bromodichloromethane
Concen: 19.230 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. 0.000 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBS01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.0	51.5	77.3
127	10.1	5.7	8.5

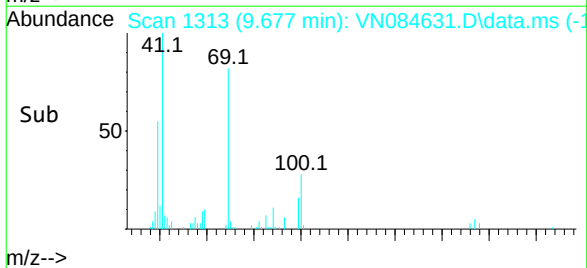
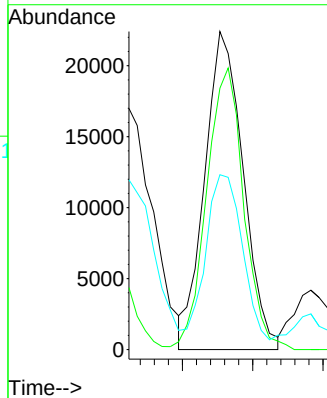
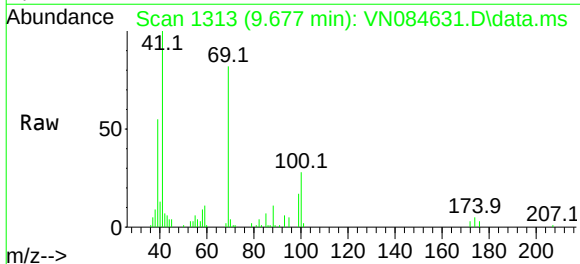
Manual Integrations
APPROVED

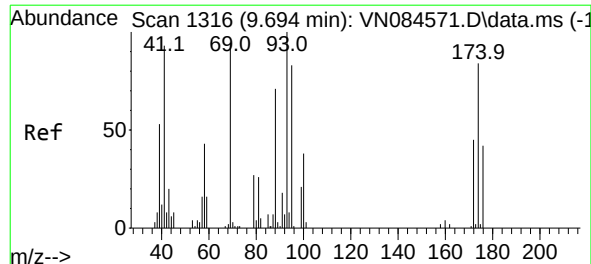
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#48
Methyl methacrylate
Concen: 20.092 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. 0.000 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

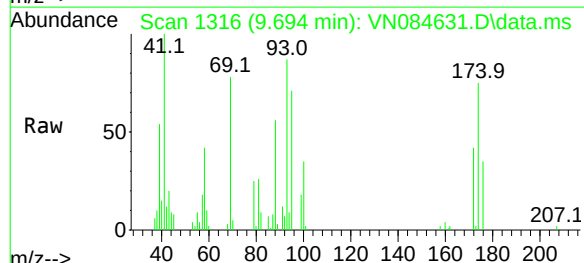
Tgt Ion	Ratio	Lower	Upper
41	100		
69	85.3	67.1	100.7
39	54.7	45.8	68.6





#49
1,4-Dioxane
Concen: 410.740 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. 0.000 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

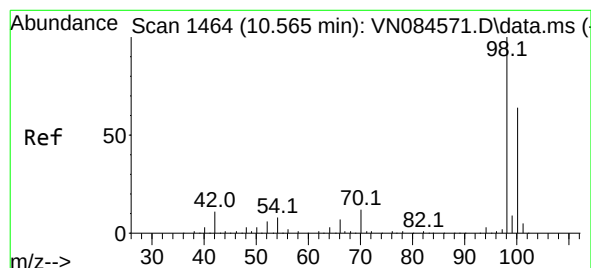
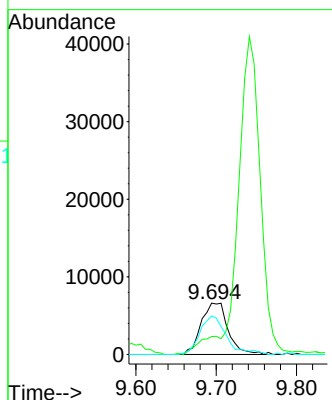
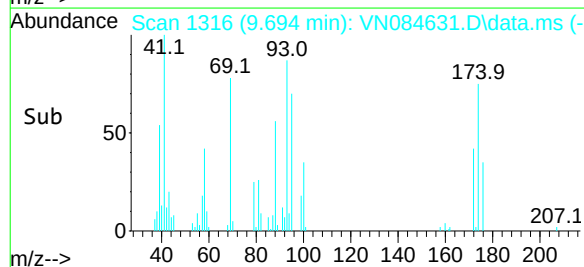
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBS01



Tgt Ion: 88 Resp: 15461
Ion Ratio Lower Upper
88 100
43 0.0 25.3 37.9#
58 73.9 56.4 84.6

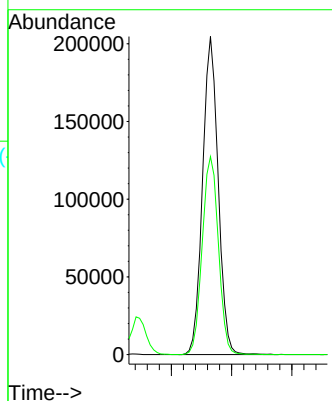
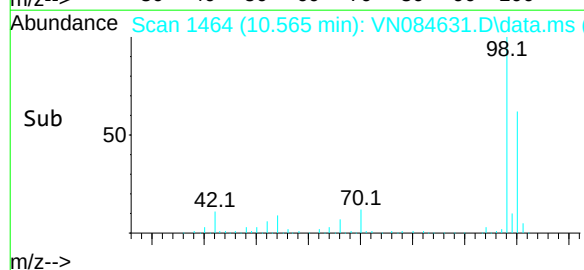
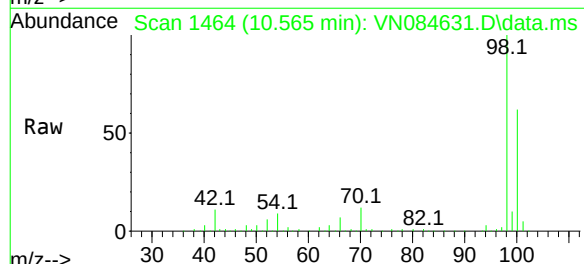
Manual Integrations
APPROVED

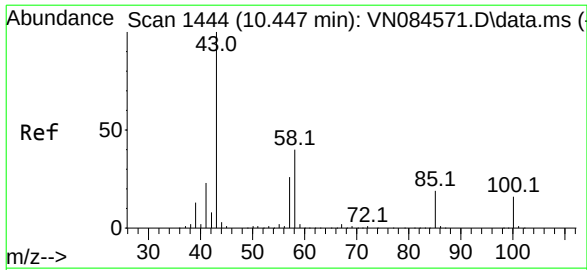
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#50
Toluene-d8
Concen: 46.086 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

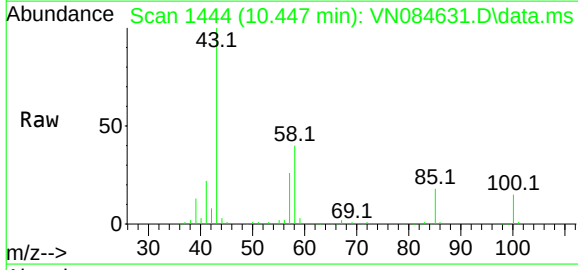
Tgt Ion: 98 Resp: 368236
Ion Ratio Lower Upper
98 100
100 64.5 52.7 79.1





#51
4-Methyl-2-Pentanone
Concen: 104.826 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

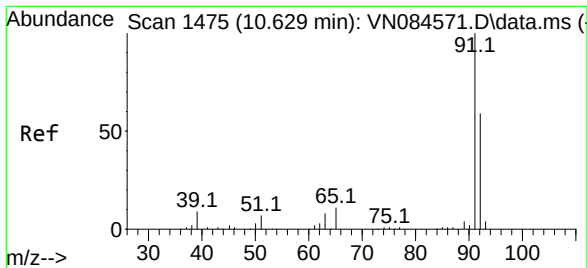
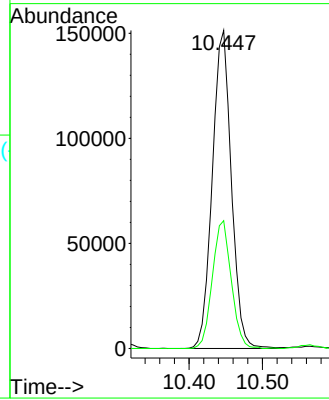
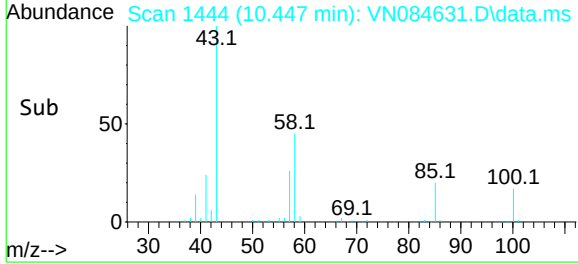
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBS01



Tgt Ion: 43 Resp: 272747
Ion Ratio Lower Upper
43 100
58 39.9 31.6 47.4

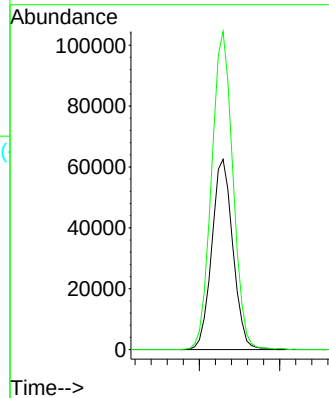
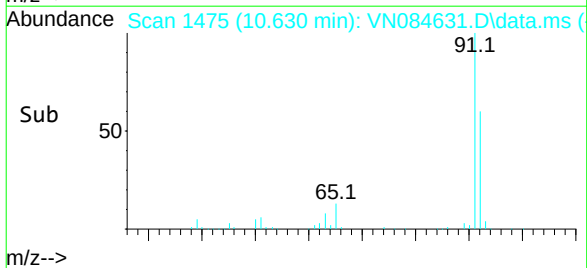
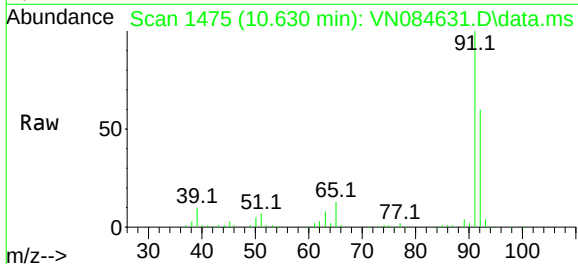
Manual Integrations
APPROVED

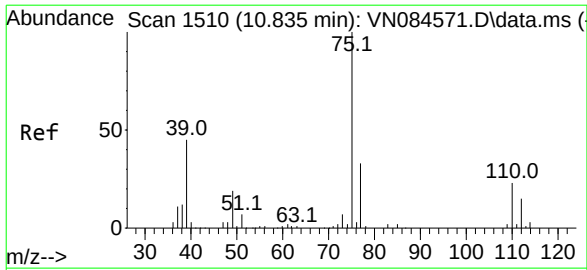
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#52
Toluene
Concen: 20.137 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

Tgt Ion: 92 Resp: 113778
Ion Ratio Lower Upper
92 100
91 169.9 137.3 205.9





#53

t-1,3-Dichloropropene

Concen: 17.677 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion: 75 Resp: 61679

Ion Ratio Lower Upper

75 100

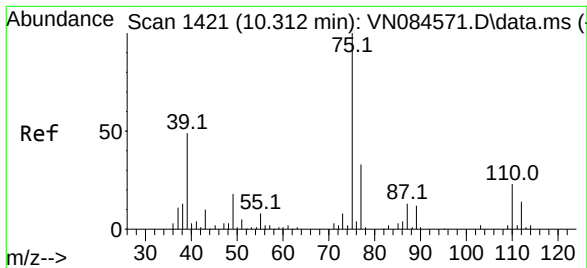
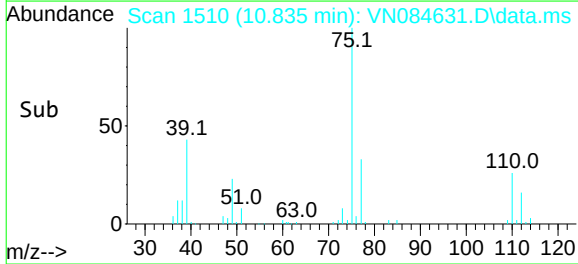
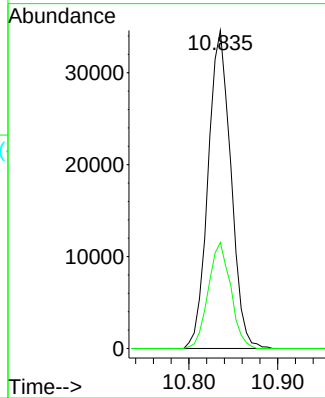
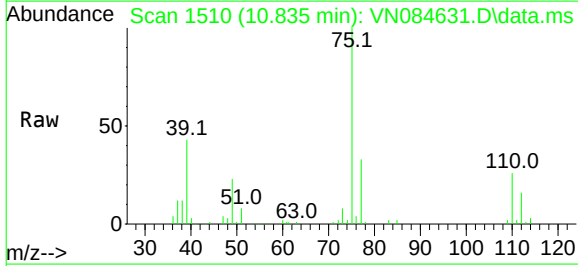
77 33.3 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024



#54

cis-1,3-Dichloropropene

Concen: 18.686 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

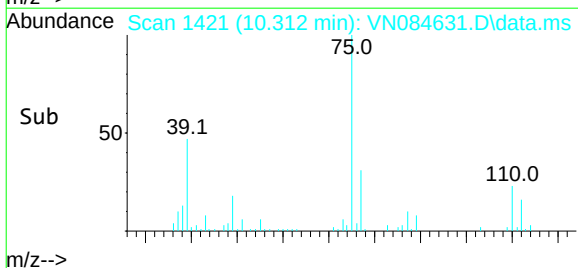
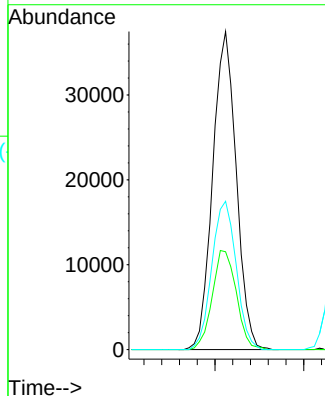
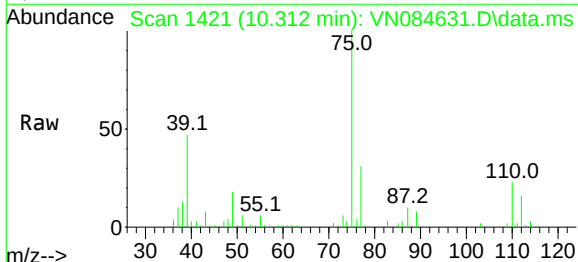
Tgt Ion: 75 Resp: 69008

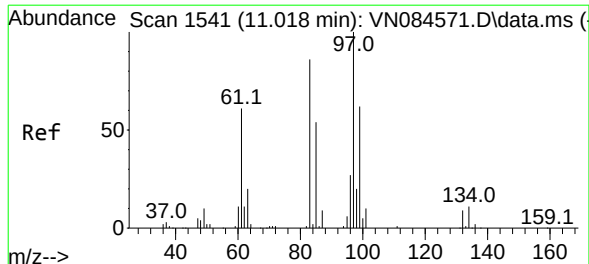
Ion Ratio Lower Upper

75 100

77 30.8 24.2 36.2

39 46.6 38.7 58.1





#55

1,1,2-Trichloroethane

Concen: 19.987 ug/l

RT: 11.018 min Scan# 15

Delta R.T. 0.006 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion: 97 Resp: 42540

Ion Ratio Lower Upper

97 100

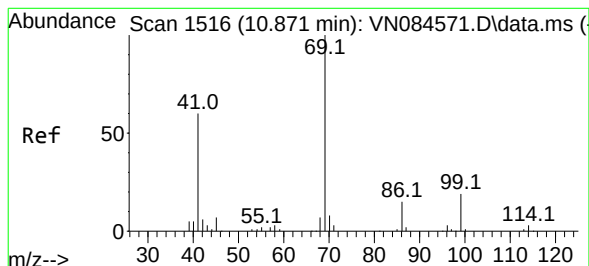
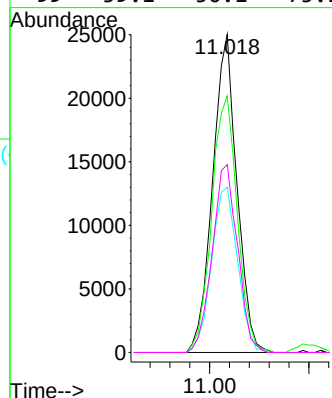
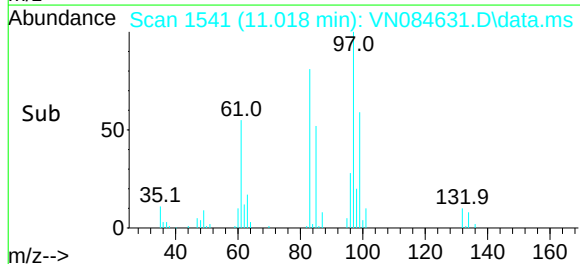
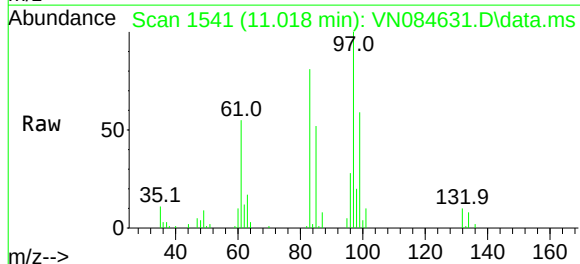
83 80.7 71.0 106.4

85 52.0 41.7 62.5

99 59.1 50.1 75.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#56

Ethyl methacrylate

Concen: 20.246 ug/l

RT: 10.877 min Scan# 1517

Delta R.T. 0.006 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

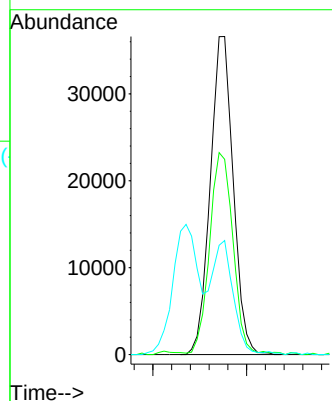
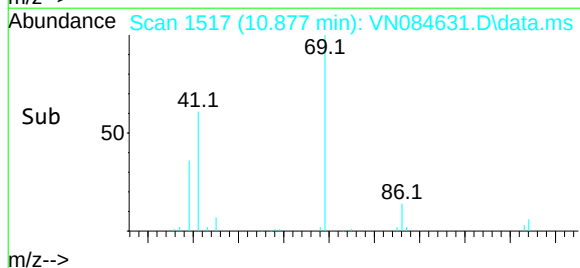
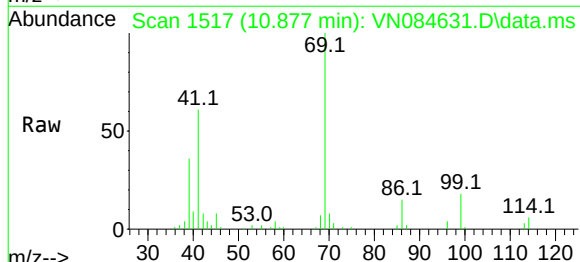
Tgt Ion: 69 Resp: 62329

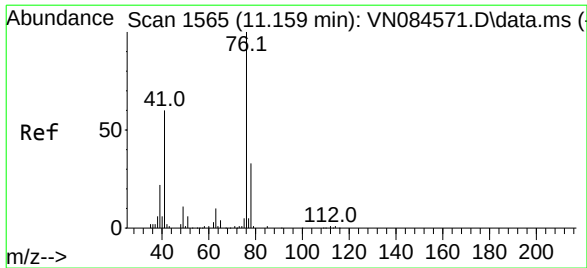
Ion Ratio Lower Upper

69 100

41 65.1 53.3 79.9

39 33.8 28.8 43.2





#57

1,3-Dichloropropane

Concen: 19.510 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion: 76 Resp: 71264

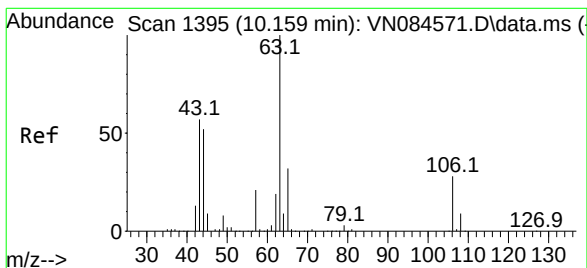
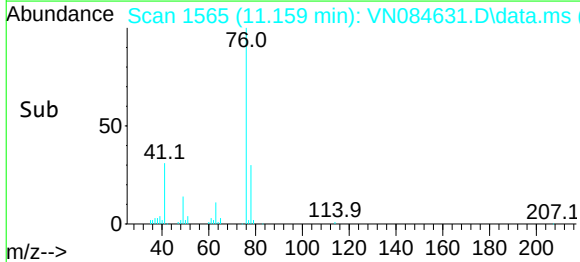
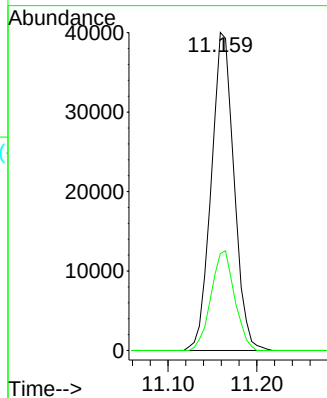
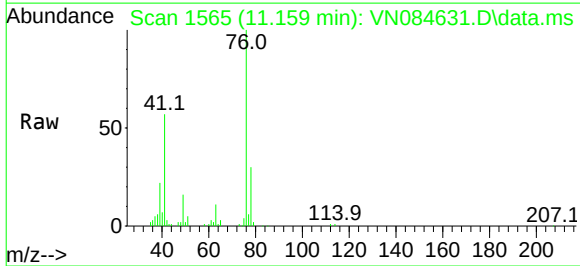
Ion Ratio Lower Upper

76 100

78 32.5 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#58

2-Chloroethyl Vinyl ether

Concen: 95.550 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN084631.D

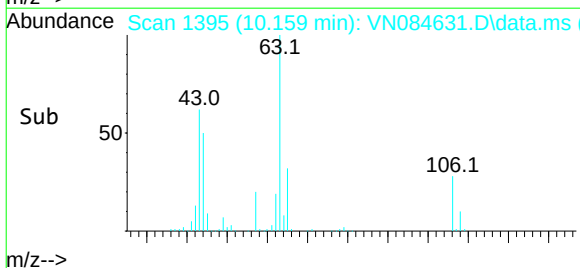
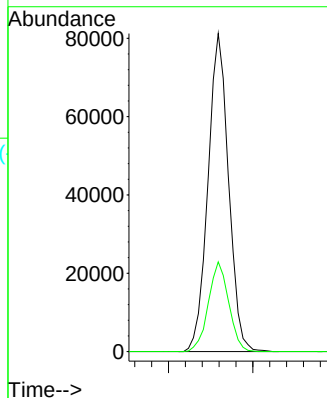
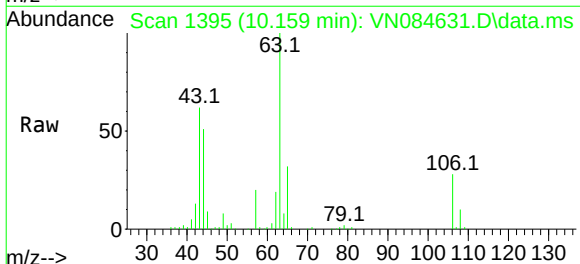
Acq: 01 Nov 2024 12:08

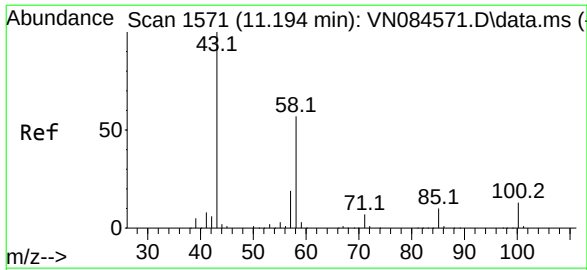
Tgt Ion: 63 Resp: 137645

Ion Ratio Lower Upper

63 100

106 27.9 21.8 32.6





#59

2-Hexanone

Concen: 106.361 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion: 43 Resp: 201434

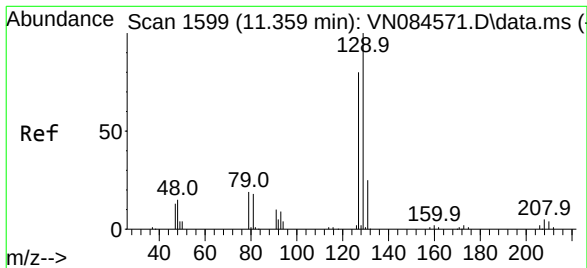
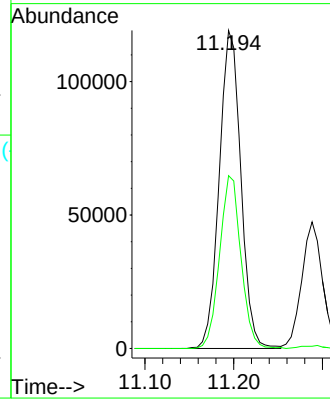
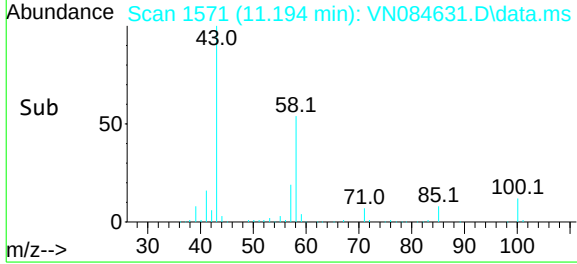
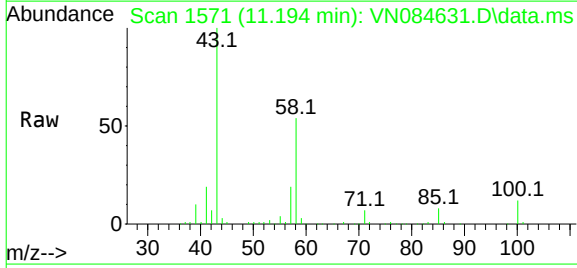
Ion Ratio Lower Upper

43 100

58 53.8 27.3 81.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#60

Dibromochloromethane

Concen: 20.336 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN084631.D

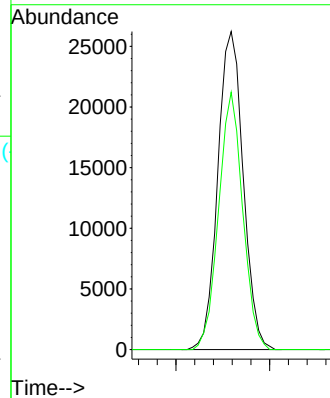
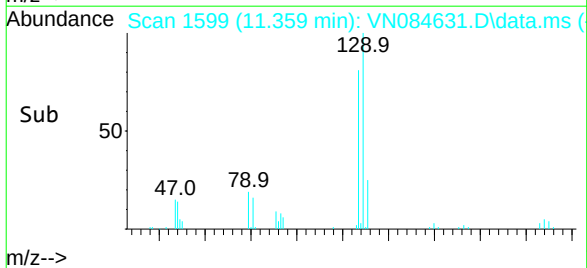
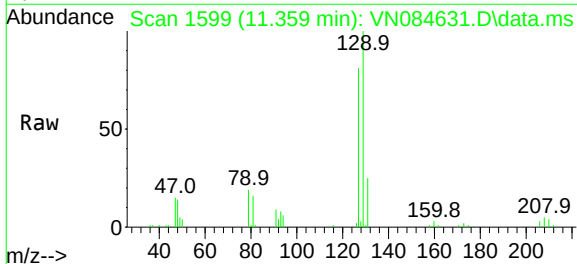
Acq: 01 Nov 2024 12:08

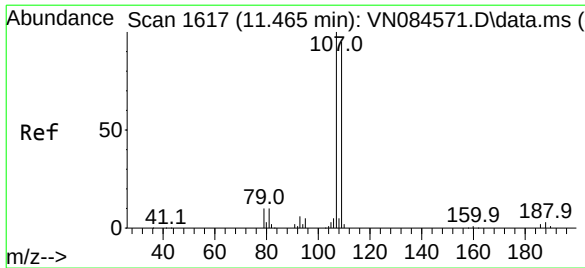
Tgt Ion:129 Resp: 49329

Ion Ratio Lower Upper

129 100

127 76.7 38.3 114.9





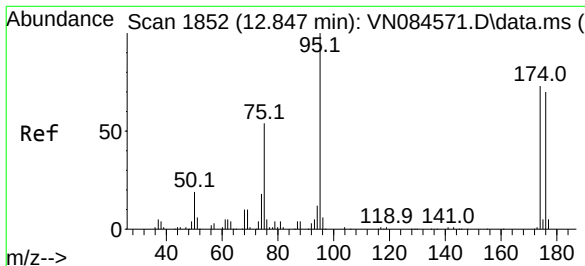
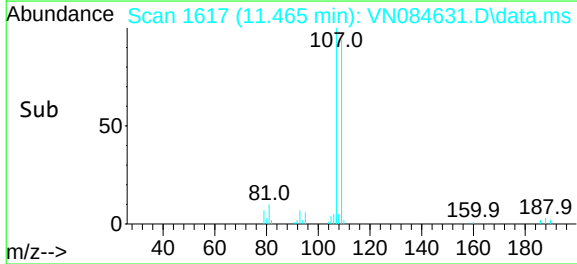
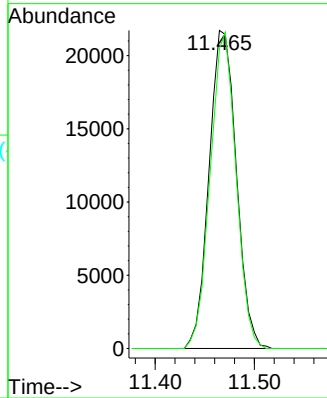
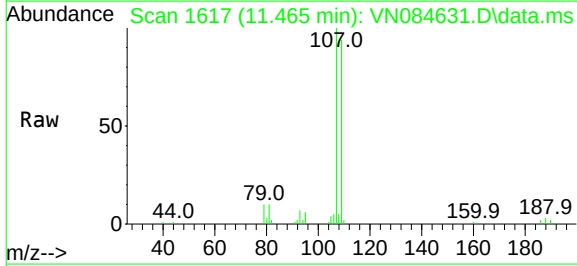
#61
1,2-Dibromoethane
Concen: 19.014 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBS01

Tgt Ion: 107 Resp: 41441
Ion Ratio Lower Upper
107 100
109 94.1 75.4 113.0

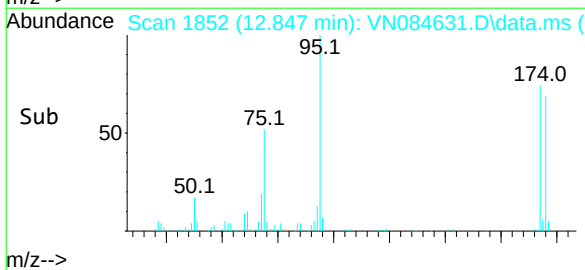
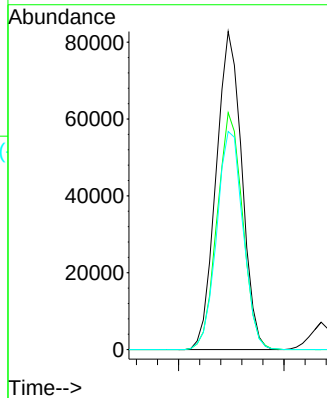
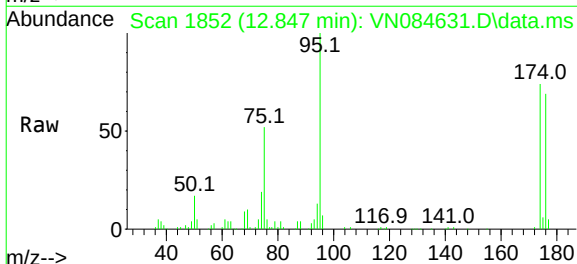
Manual Integrations
APPROVED

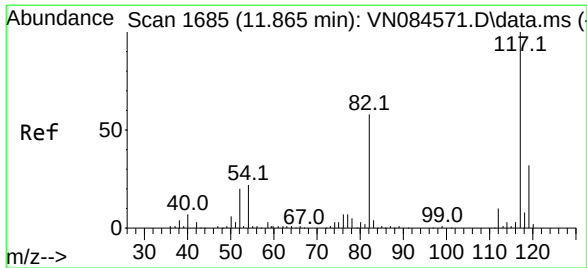
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#62
4-Bromofluorobenzene
Concen: 47.047 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

Tgt Ion: 95 Resp: 140490
Ion Ratio Lower Upper
95 100
174 74.0 0.0 145.2
176 70.3 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion:117 Resp: 287801

Ion Ratio Lower Upper

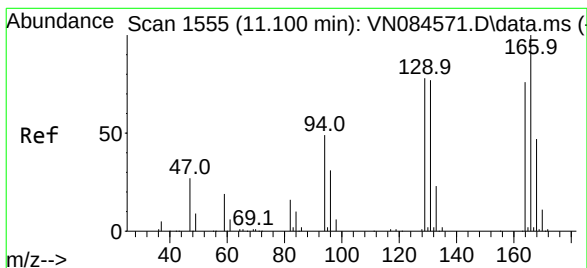
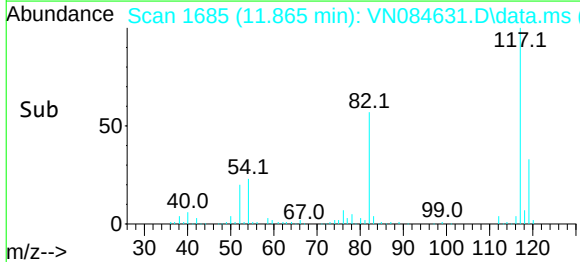
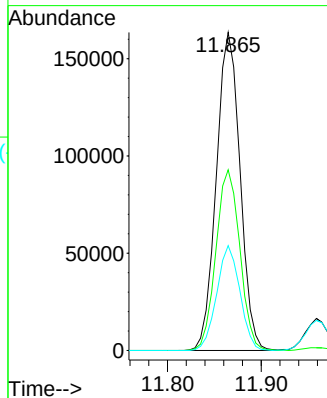
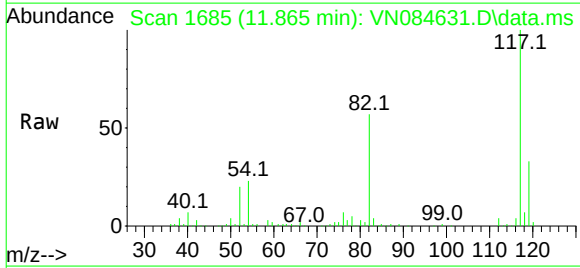
117 100

82 56.8 47.2 70.8

119 33.0 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#64

Tetrachloroethene

Concen: 18.628 ug/l

RT: 11.106 min Scan# 1556

Delta R.T. 0.006 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Tgt Ion:164 Resp: 35660

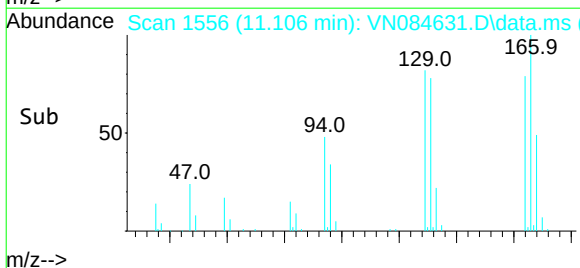
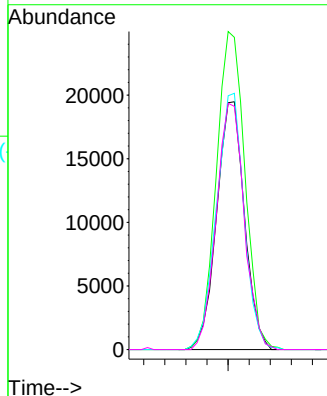
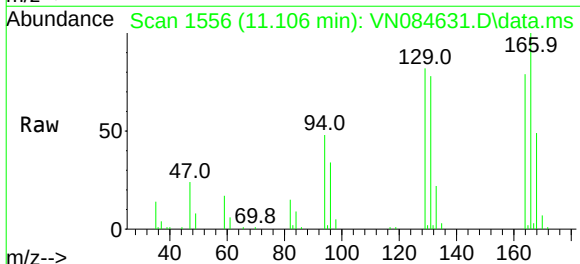
Ion Ratio Lower Upper

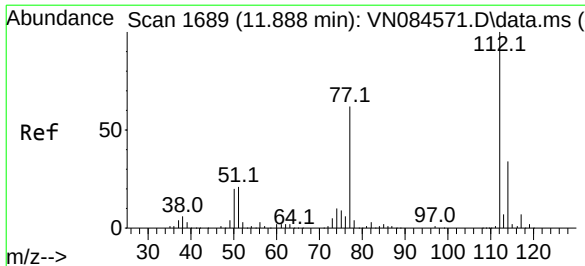
164 100

166 126.0 101.0 151.4

129 103.4 80.8 121.2

131 98.2 78.1 117.1





#65

Chlorobenzene

Concen: 18.278 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion:112 Resp: 117685

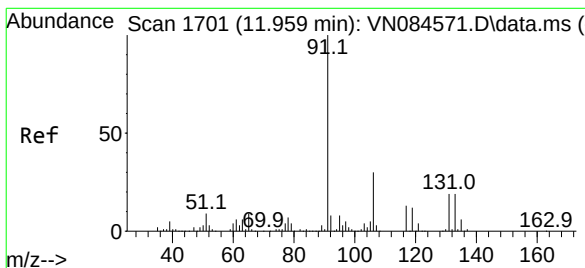
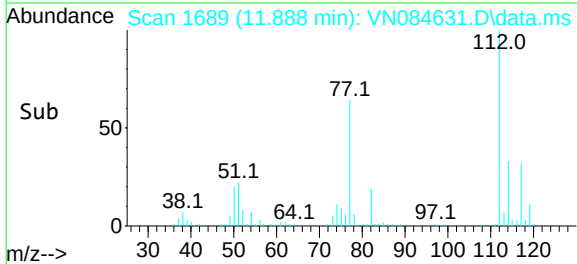
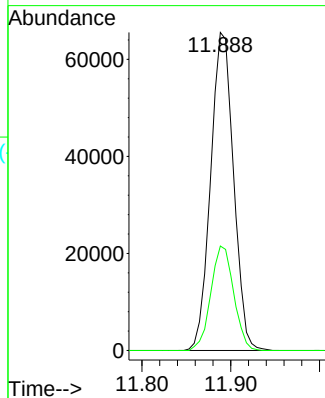
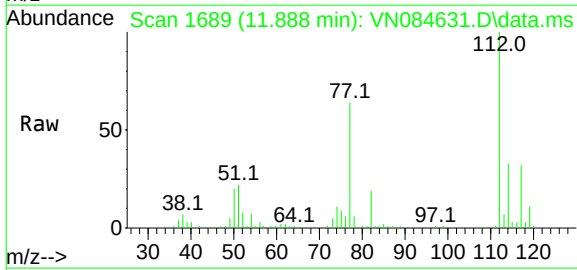
Ion Ratio Lower Upper

112 100

114 32.8 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#66

1,1,1,2-Tetrachloroethane

Concen: 18.934 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

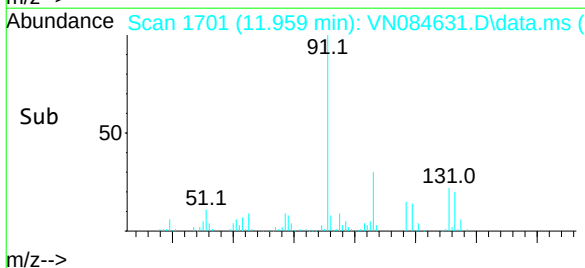
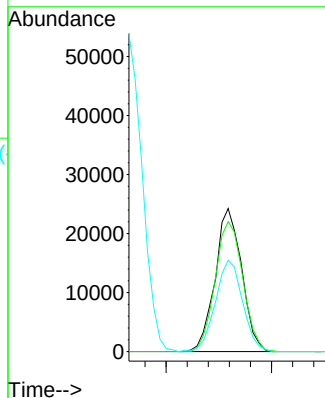
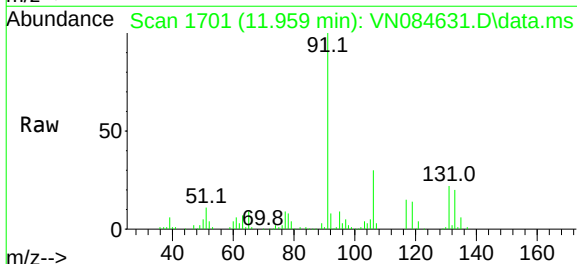
Tgt Ion:131 Resp: 42403

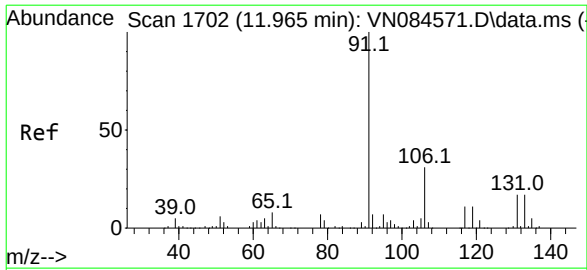
Ion Ratio Lower Upper

131 100

133 94.6 47.9 143.7

119 65.4 32.8 98.3





#67

Ethyl Benzene

Concen: 18.829 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.006 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion: 91 Resp: 202367

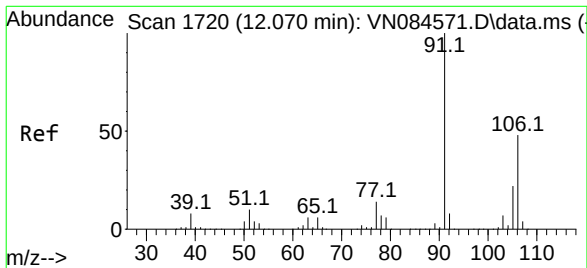
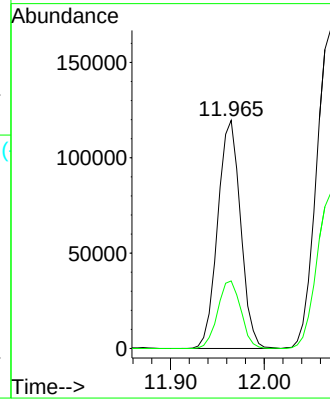
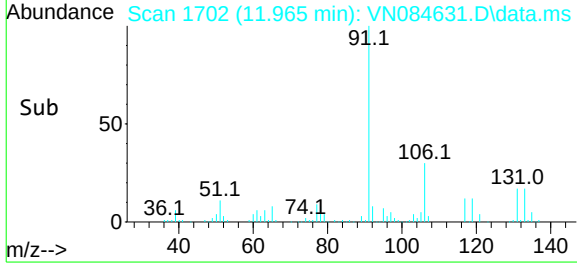
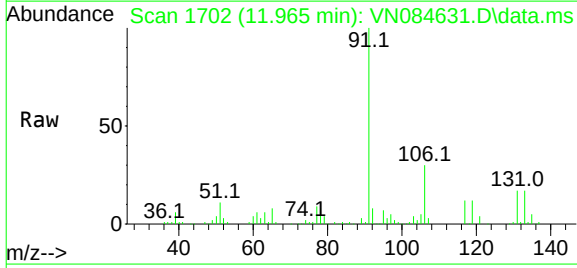
Ion Ratio Lower Upper

91 100

106 29.6 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#68

m/p-Xylenes

Concen: 38.934 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN084631.D

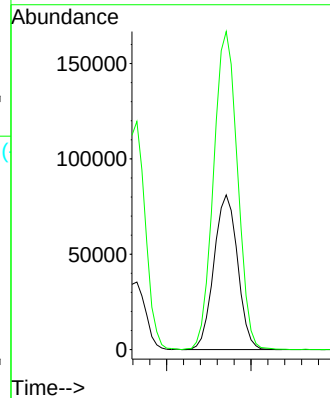
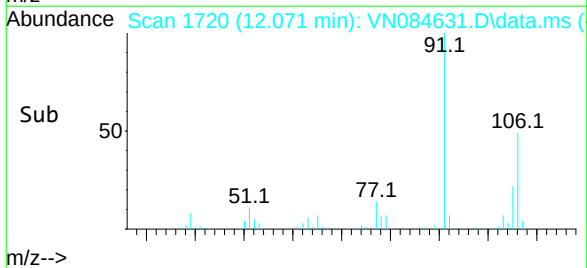
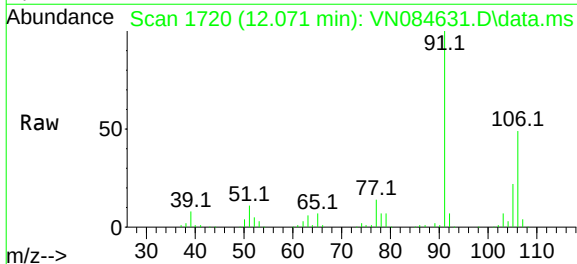
Acq: 01 Nov 2024 12:08

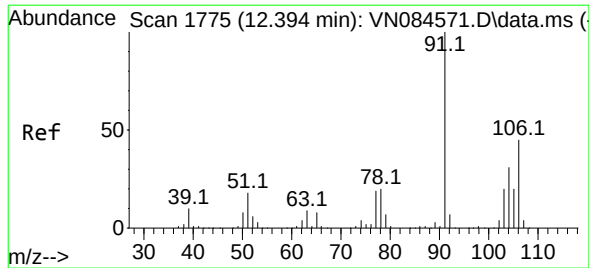
Tgt Ion:106 Resp: 158415

Ion Ratio Lower Upper

106 100

91 207.7 167.1 250.7





#69

o-Xylene

Concen: 19.953 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion:106 Resp: 75949

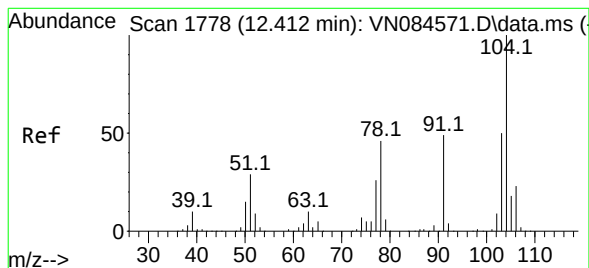
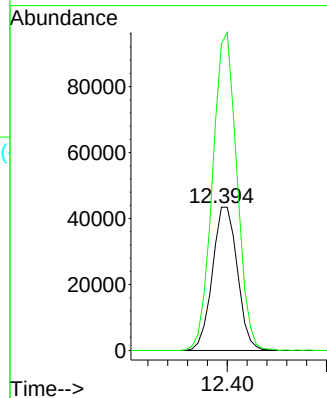
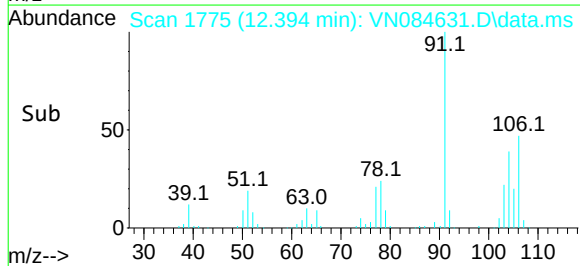
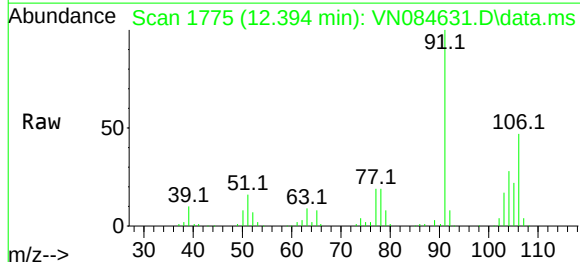
Ion Ratio Lower Upper

106 100

91 216.6 110.2 330.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#70

Styrene

Concen: 19.394 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

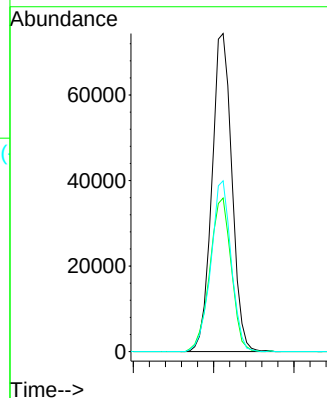
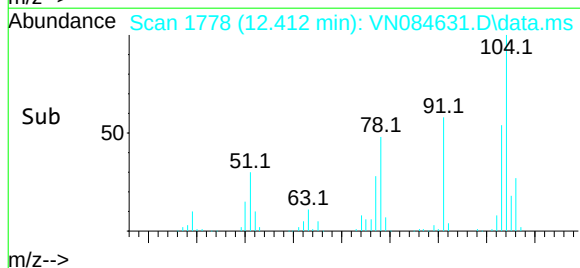
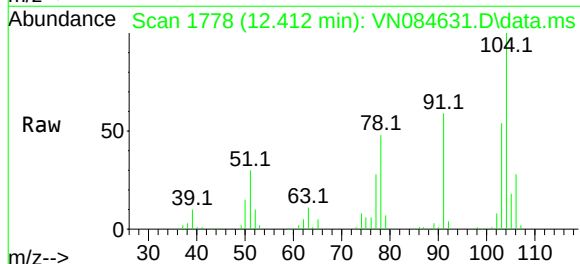
Tgt Ion:104 Resp: 128771

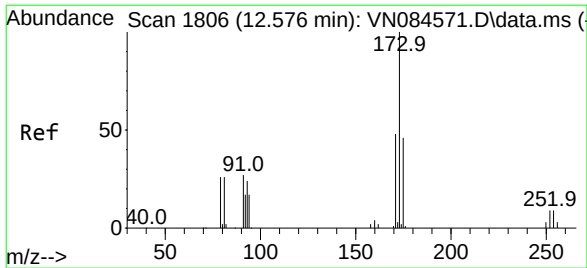
Ion Ratio Lower Upper

104 100

78 51.7 42.7 64.1

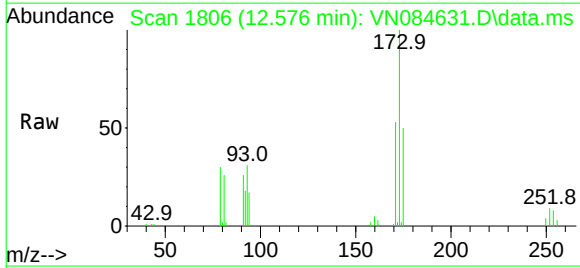
103 54.6 43.6 65.4





Bromoform
Concen: 18.968 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

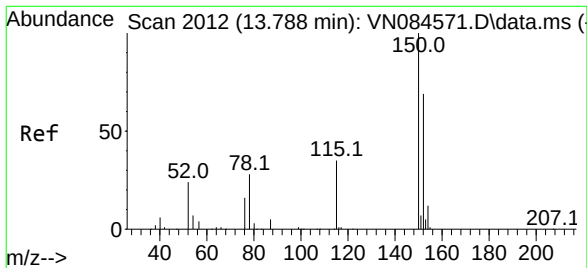
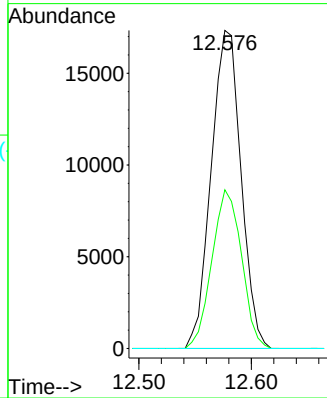
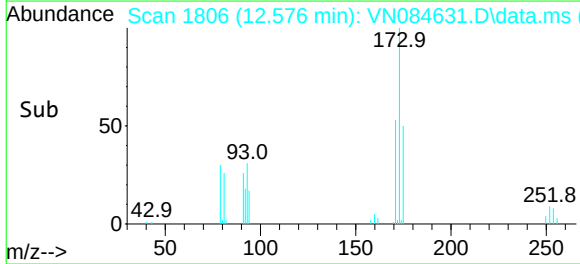
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBS01



Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.4	23.5	70.6
254	0.0	0.0	0.0

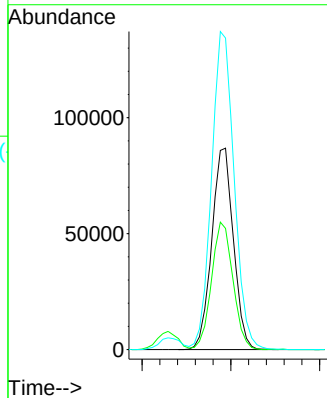
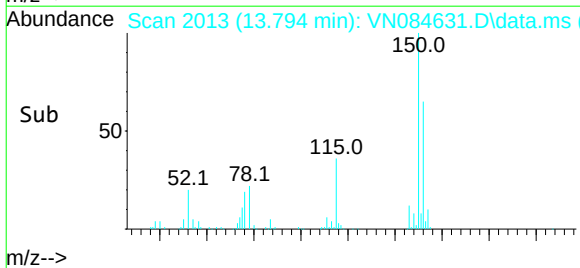
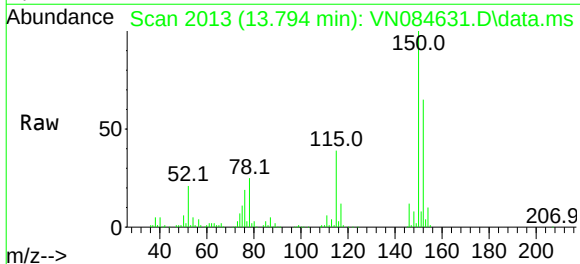
Manual Integrations
APPROVED

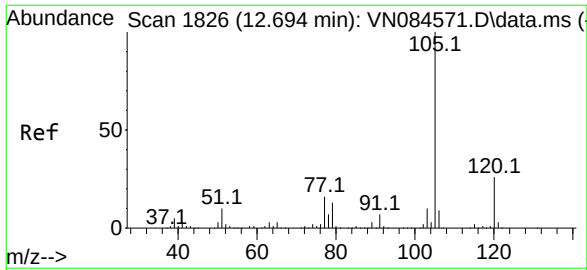
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.6	31.3	93.9
150	164.9	0.0	349.8





#73

Isopropylbenzene

Concen: 18.450 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion: 105 Resp: 190126

Ion Ratio Lower Upper

105 100

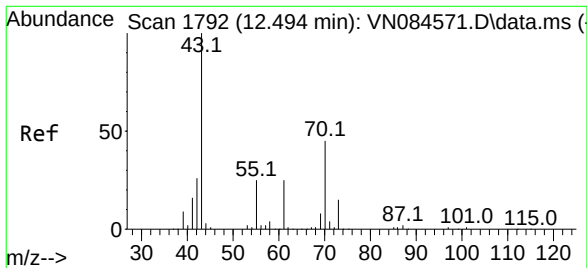
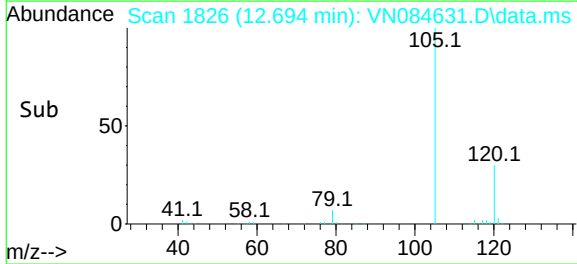
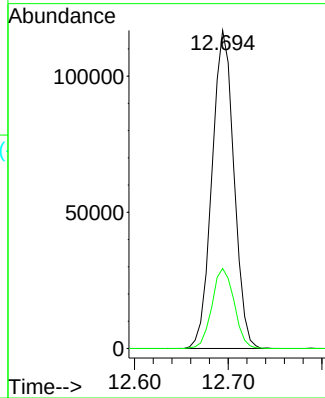
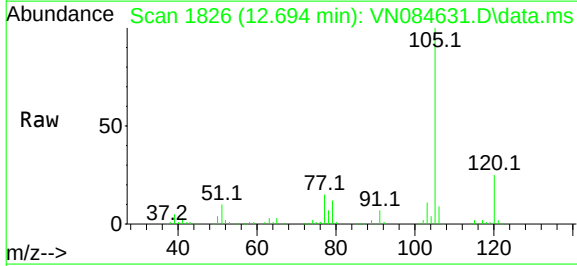
120 25.4 12.9 38.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024



#74

N-ethyl acetate

Concen: 18.112 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Tgt Ion: 43 Resp: 79438

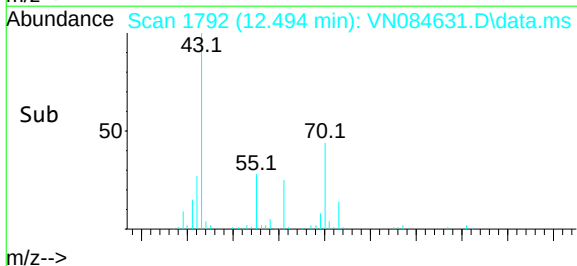
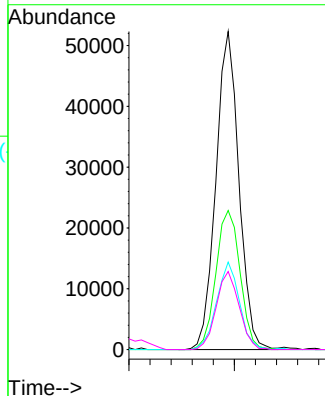
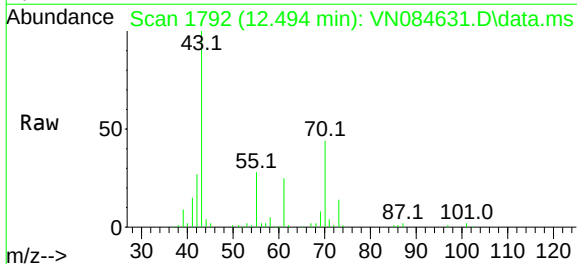
Ion Ratio Lower Upper

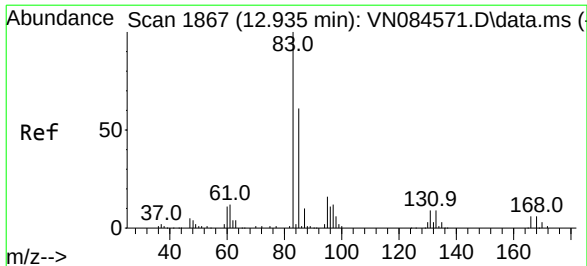
43 100

70 45.8 34.4 51.6

55 27.3 19.6 29.4

61 24.5 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 18.101 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

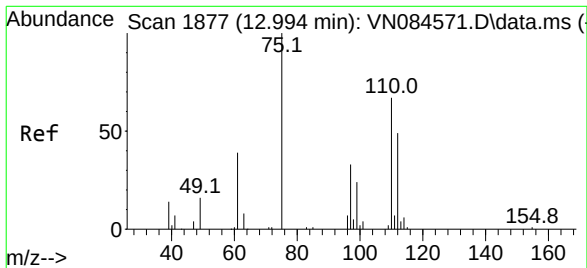
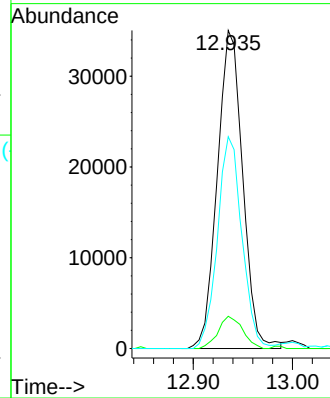
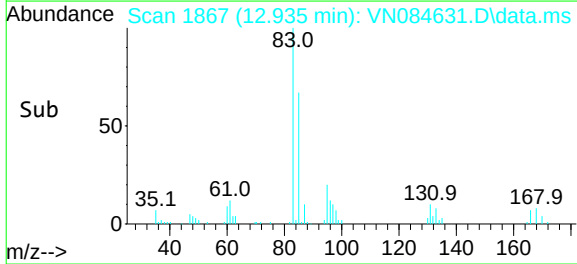
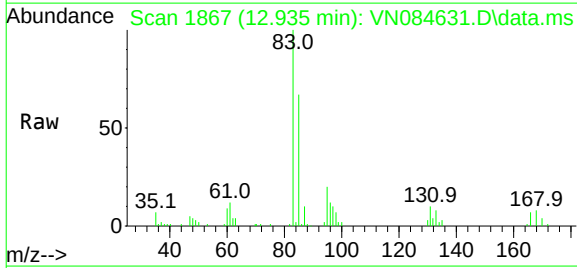
ClientSampleId :

VN1101WBS01

Tgt Ion:	83	Resp:	62261
Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.9	14.7
85	64.0	31.9	95.7

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#76

1,2,3-Trichloropropane

Concen: 16.997 ug/l m

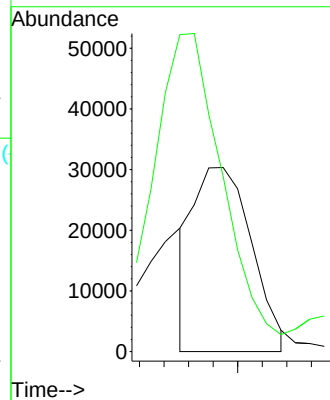
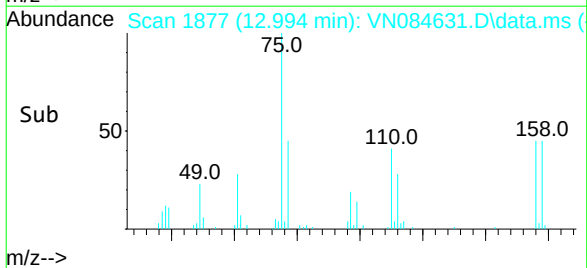
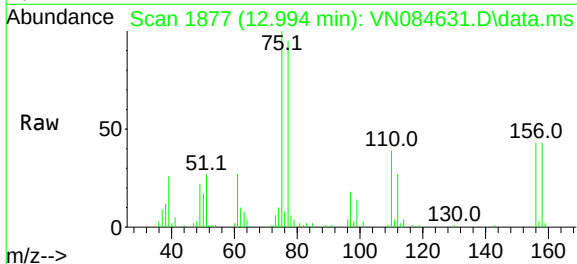
RT: 12.994 min Scan# 1877

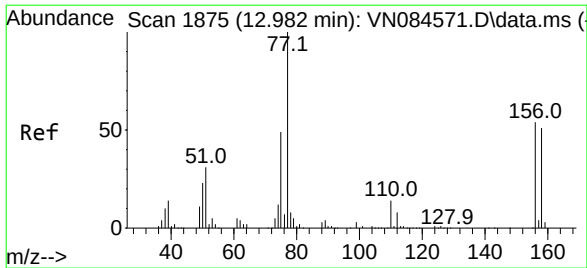
Delta R.T. 0.006 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Tgt Ion:	75	Resp:	49964
Ion	Ratio	Lower	Upper
75	100		
77	210.9	96.9	290.7





#77

Bromobenzene

Concen: 17.662 ug/l

RT: 12.982 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VN084631.D

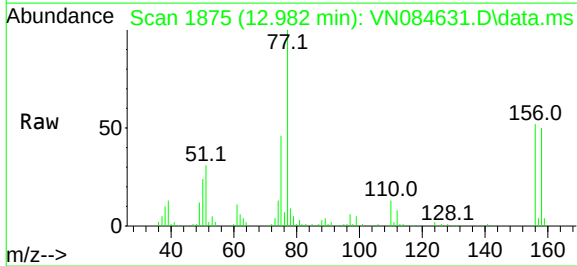
Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01



Tgt Ion: 156 Resp: 48929

Ion Ratio Lower Upper

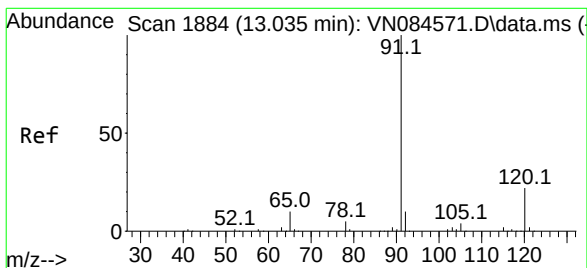
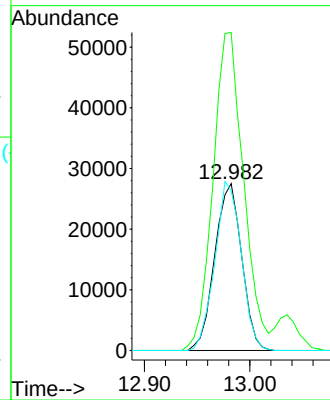
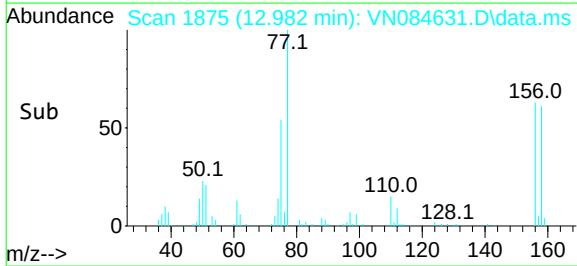
156 100

77 215.4 115.1 345.3

158 99.1 48.9 146.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#78

n-propylbenzene

Concen: 18.224 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.000 min

Lab File: VN084631.D

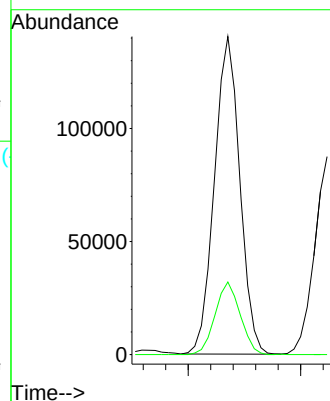
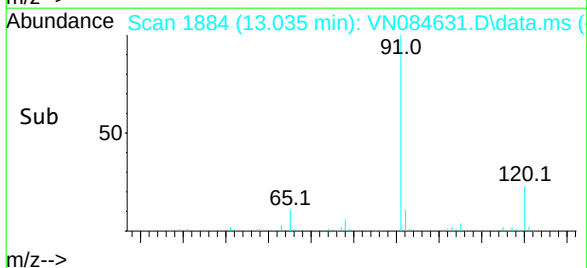
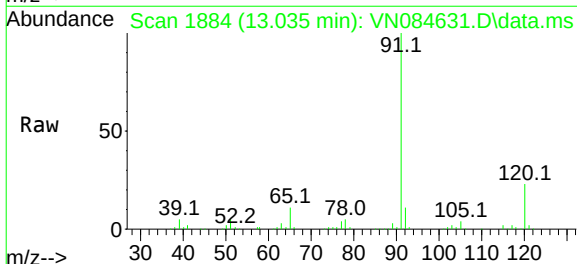
Acq: 01 Nov 2024 12:08

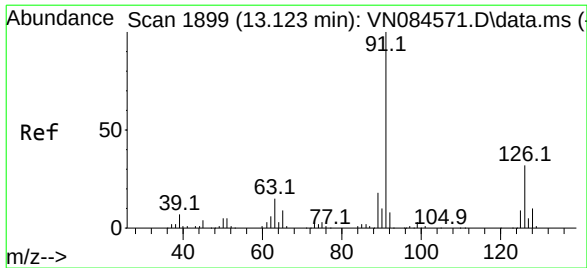
Tgt Ion: 91 Resp: 220072

Ion Ratio Lower Upper

91 100

120 22.5 10.8 32.4





#79

2-Chlorotoluene

Concen: 18.441 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion: 91 Resp: 145506

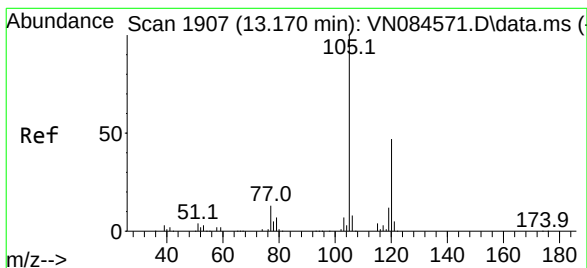
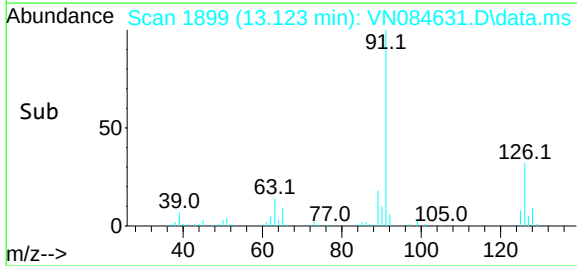
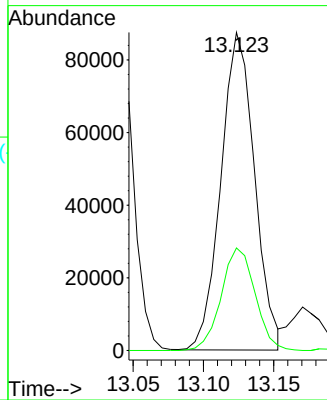
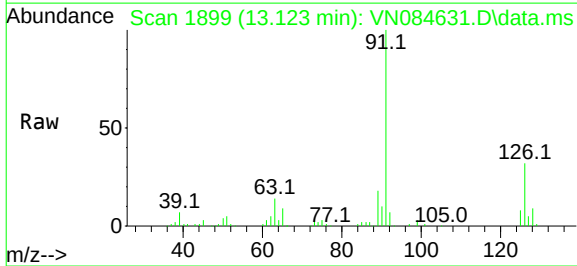
Ion Ratio Lower Upper

91 100

126 32.5 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#80

1,3,5-Trimethylbenzene

Concen: 19.222 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN084631.D

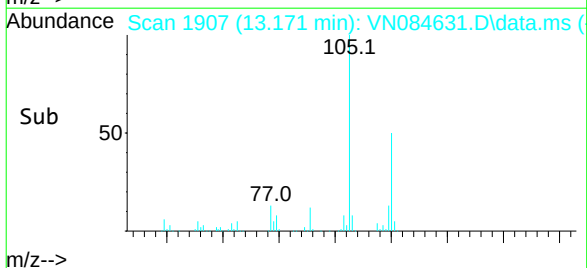
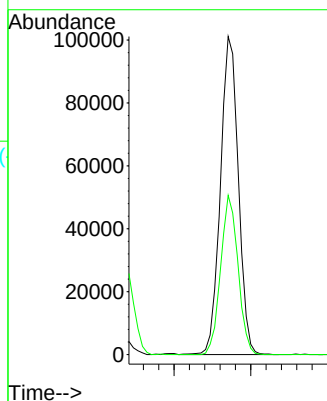
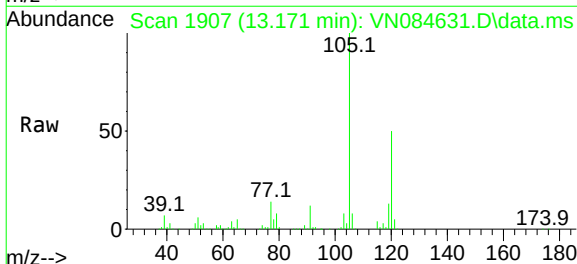
Acq: 01 Nov 2024 12:08

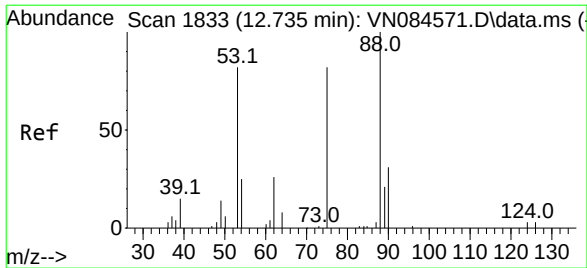
Tgt Ion:105 Resp: 164177

Ion Ratio Lower Upper

105 100

120 48.4 23.7 71.1





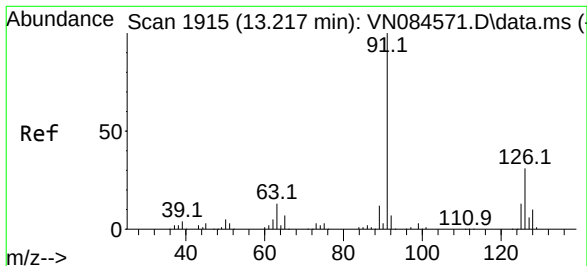
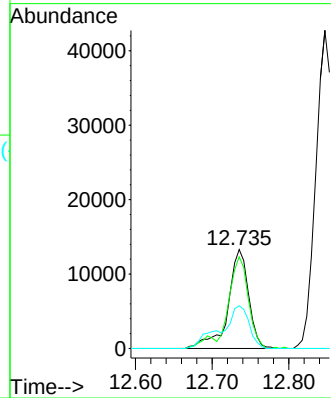
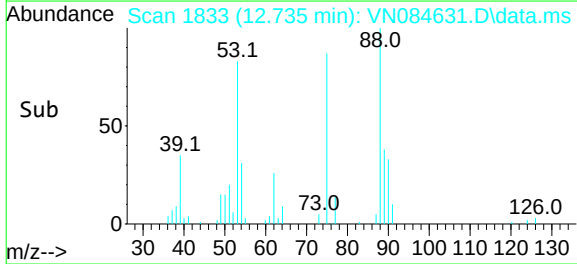
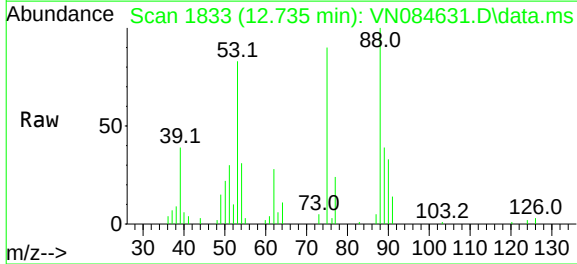
#81
trans-1,4-Dichloro-2-butene
Concen: 20.001 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBS01

Tgt Ion: 75 Resp: 24782
Ion Ratio Lower Upper
75 100
53 84.4 78.0 117.0
89 58.4 35.5 53.3#

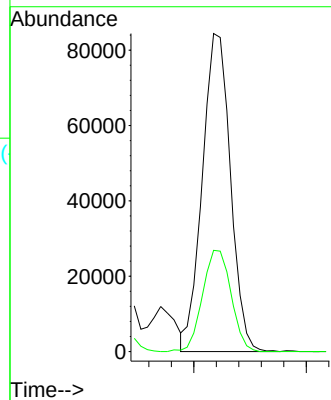
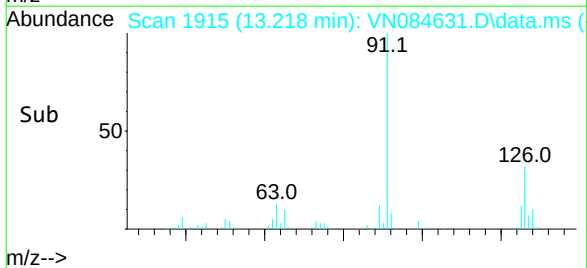
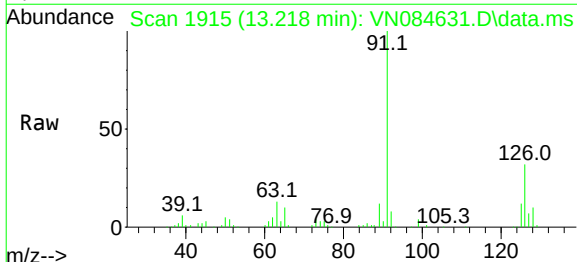
Manual Integrations
APPROVED

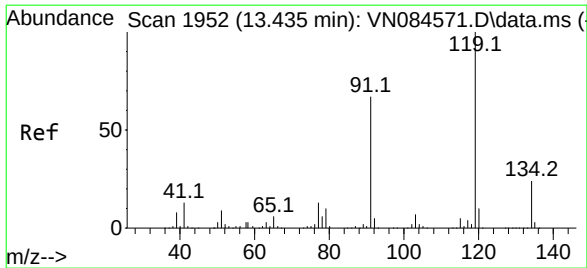
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#82
4-Chlorotoluene
Concen: 17.670 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN084631.D
Acq: 01 Nov 2024 12:08

Tgt Ion: 91 Resp: 146733
Ion Ratio Lower Upper
91 100
126 32.3 15.7 47.1





#83

tert-Butylbenzene

Concen: 19.657 ug/l

RT: 13.435 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion:119 Resp: 138949

Ion Ratio Lower Upper

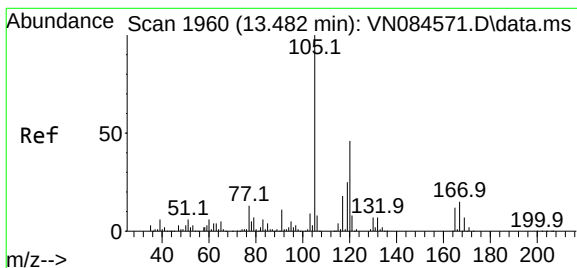
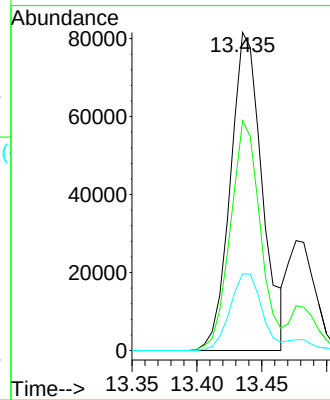
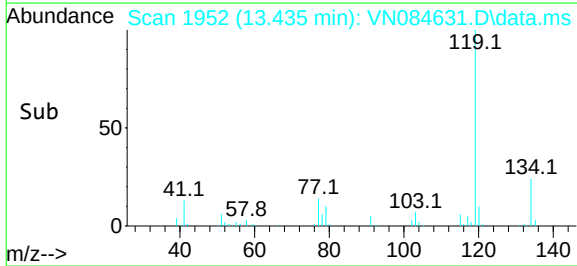
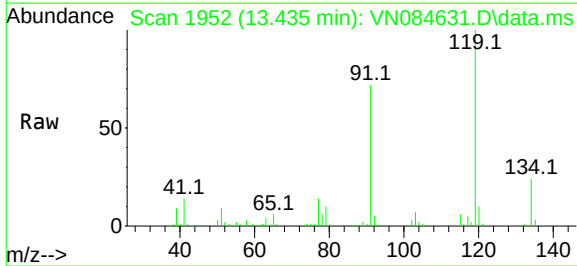
119 100

91 68.0 34.1 102.3

134 24.1 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#84

1,2,4-Trimethylbenzene

Concen: 19.200 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN084631.D

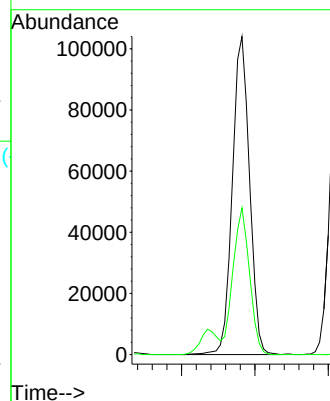
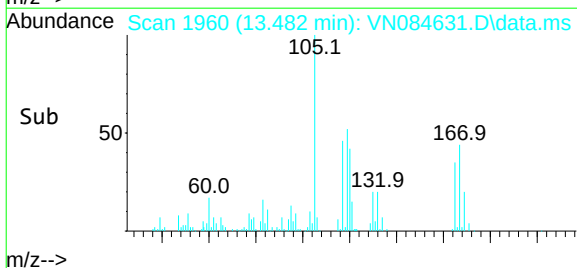
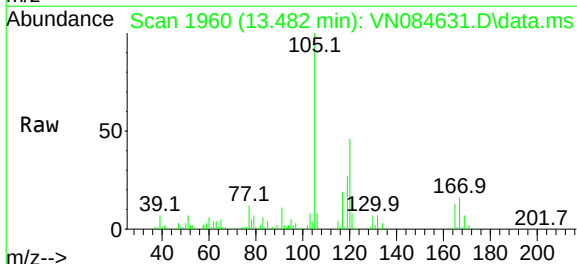
Acq: 01 Nov 2024 12:08

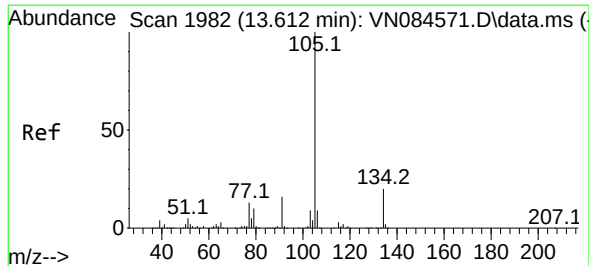
Tgt Ion:105 Resp: 169251

Ion Ratio Lower Upper

105 100

120 44.9 22.3 66.8





#85

sec-Butylbenzene

Concen: 18.558 ug/l

RT: 13.618 min Scan# 1982

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion:105 Resp: 185297

Ion Ratio Lower Upper

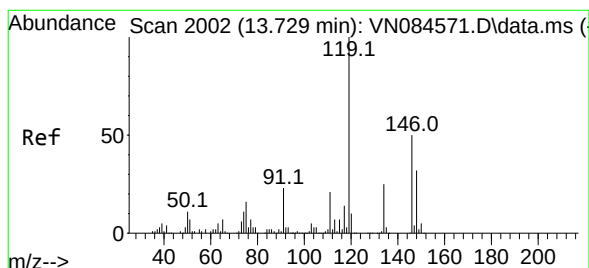
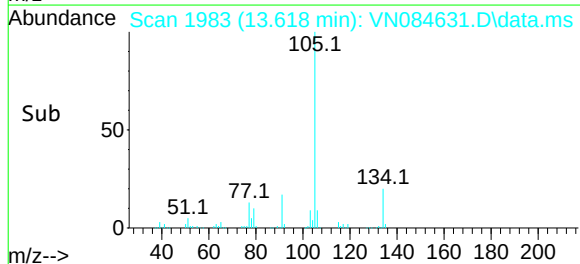
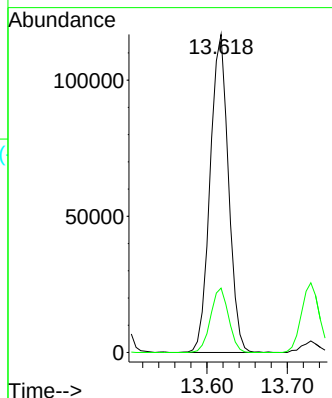
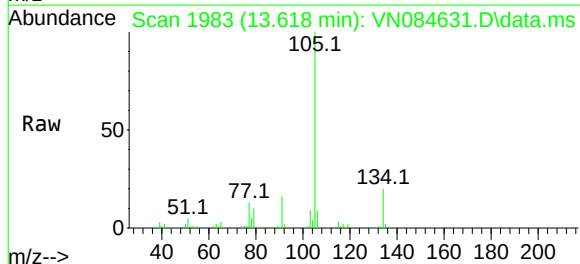
105 100

134 19.7 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#86

p-Isopropyltoluene

Concen: 19.288 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

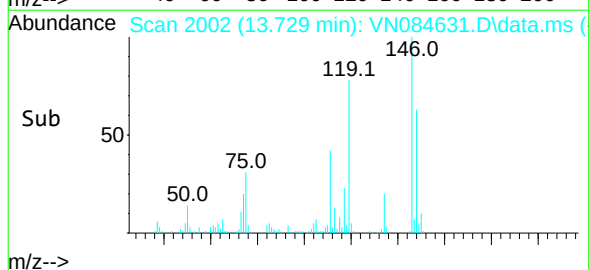
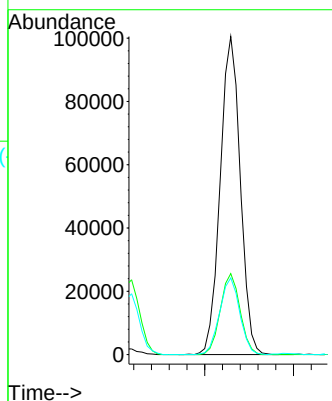
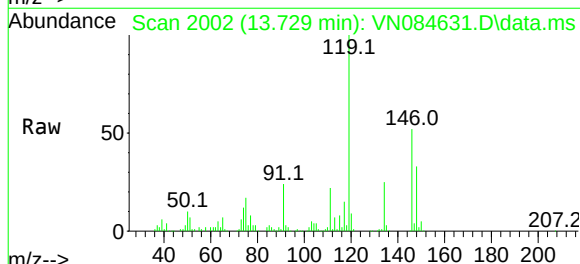
Tgt Ion:119 Resp: 157950

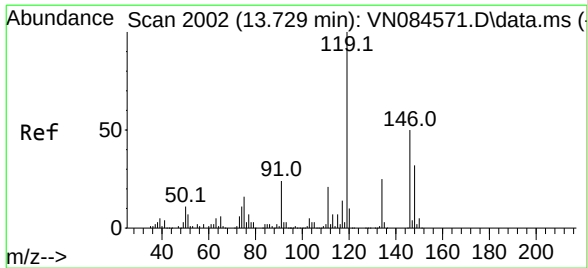
Ion Ratio Lower Upper

119 100

134 24.9 12.6 37.8

91 24.1 12.4 37.2





#87

1,3-Dichlorobenzene

Concen: 16.849 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

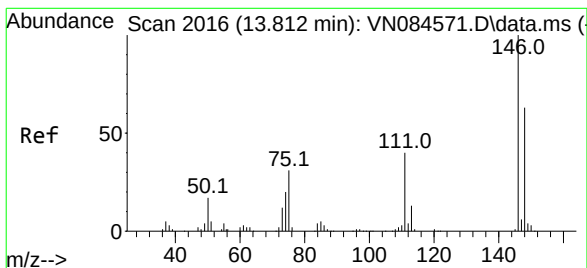
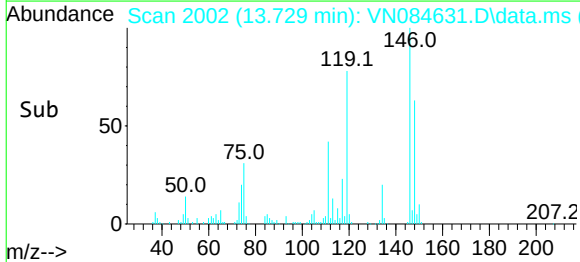
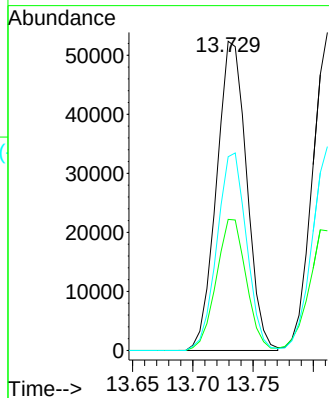
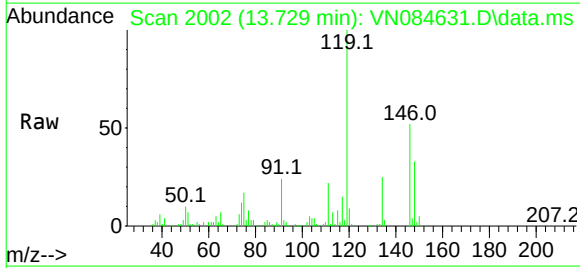
VN1101WBS01

Tgt Ion:	146	Resp:	91095
Ion Ratio	Lower	Upper	
146	100		
111	42.2	21.8	65.3
148	62.6	31.9	95.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#88

1,4-Dichlorobenzene

Concen: 17.266 ug/l

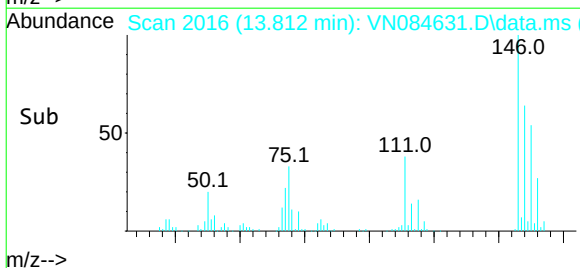
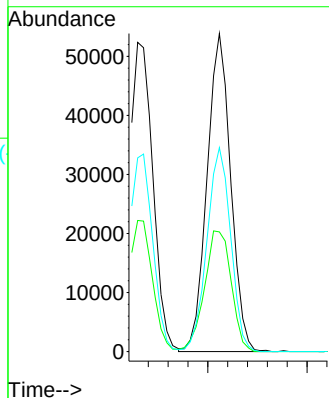
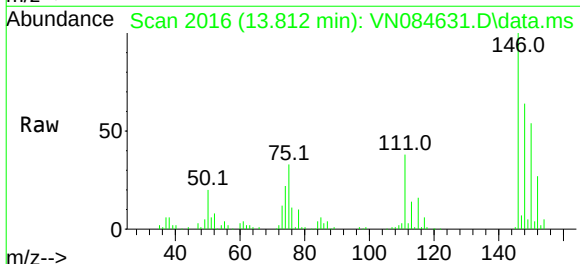
RT: 13.812 min Scan# 2016

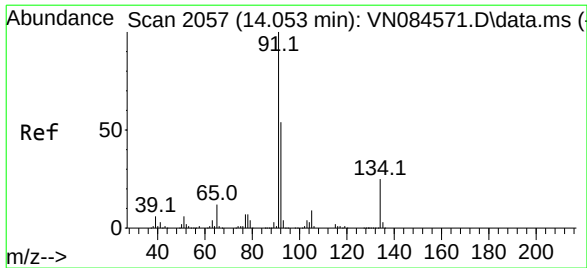
Delta R.T. -0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Tgt Ion:	146	Resp:	89211
Ion Ratio	Lower	Upper	
146	100		
111	42.9	21.2	63.6
148	64.5	31.9	95.9





#89

n-Butylbenzene

Concen: 16.453 ug/l

RT: 14.059 min Scan# 2057

Delta R.T. 0.006 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

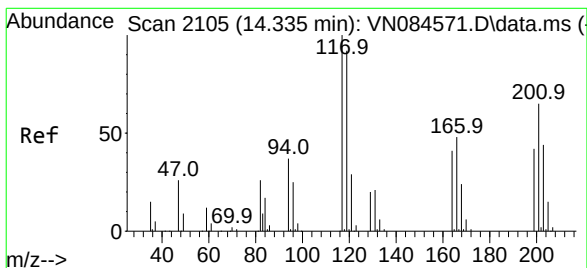
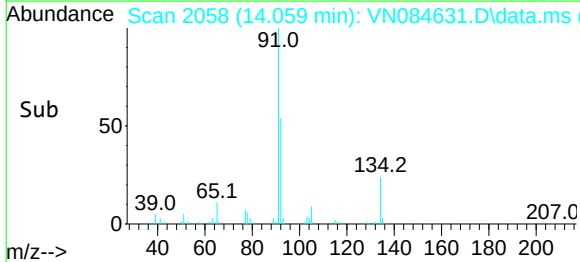
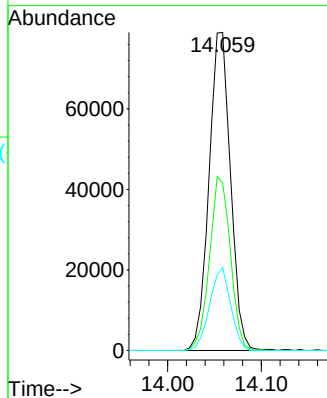
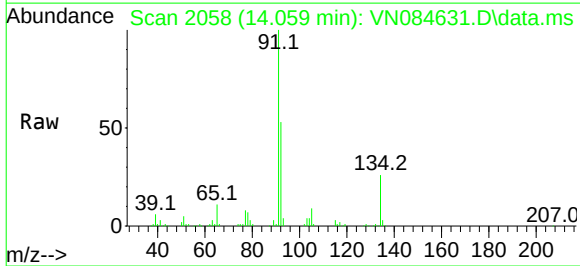
VN1101WBS01

Tgt Ion:	91	Resp:	126030
Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.6	79.7
134	25.4	12.3	36.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#90

Hexachloroethane

Concen: 17.431 ug/l

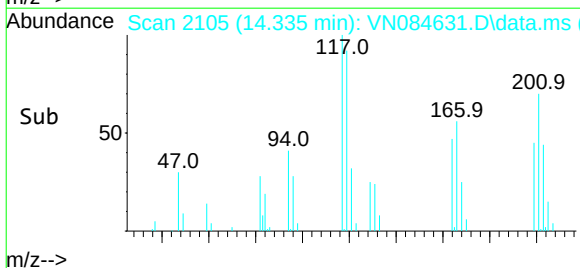
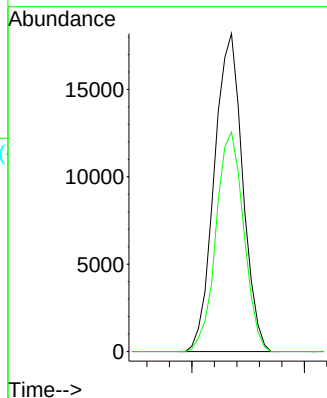
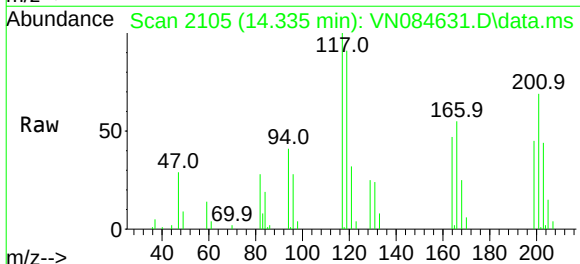
RT: 14.335 min Scan# 2105

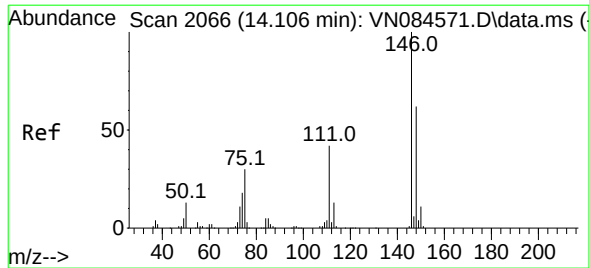
Delta R.T. 0.006 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Tgt Ion:	117	Resp:	31832
Ion	Ratio	Lower	Upper
117	100		
201	67.5	34.4	103.2





#91

1,2-Dichlorobenzene

Concen: 17.005 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion:146 Resp: 88346

Ion Ratio Lower Upper

146 100

111 44.4 22.0 66.0

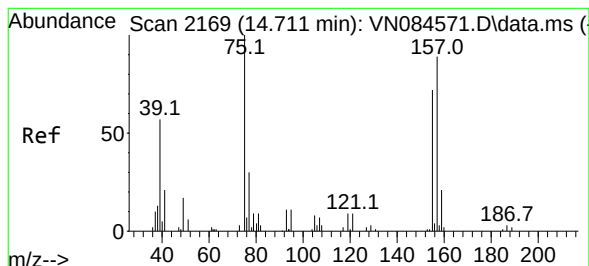
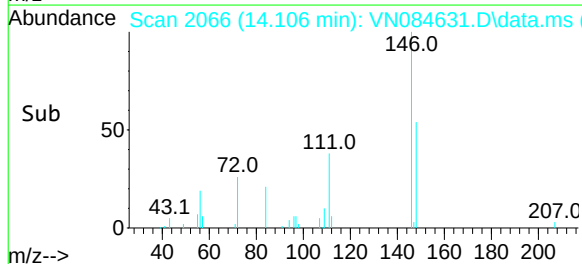
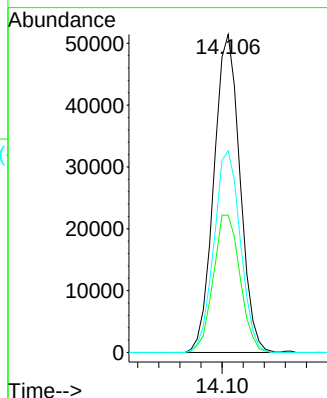
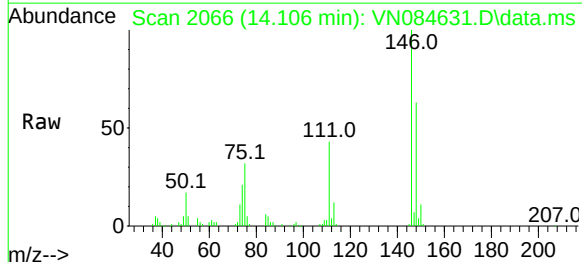
148 64.2 32.1 96.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 17.920 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. 0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

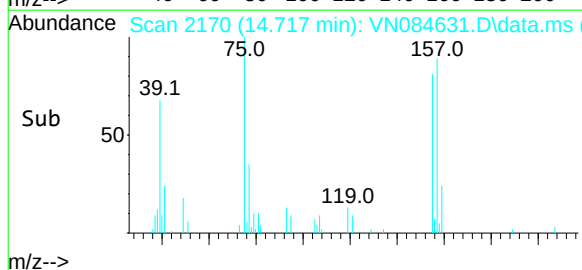
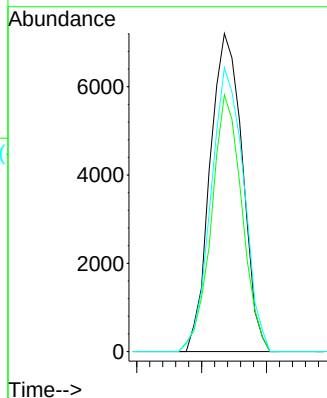
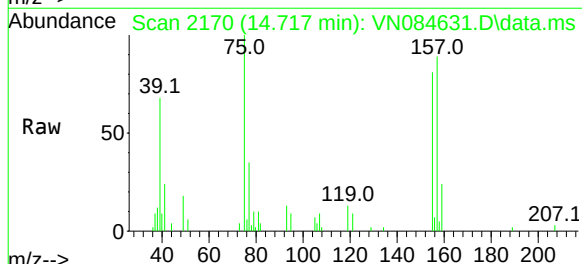
Tgt Ion: 75 Resp: 12487

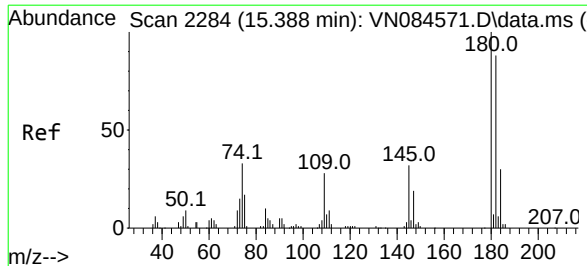
Ion Ratio Lower Upper

75 100

155 76.2 38.1 114.5

157 90.5 49.6 149.0





#93

1,2,4-Trichlorobenzene

Concen: 14.695 ug/l

RT: 15.394 min Scan# 2284

Delta R.T. 0.006 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion:180 Resp: 41786

Ion Ratio Lower Upper

180 100

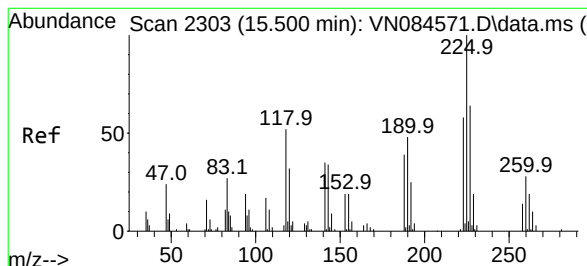
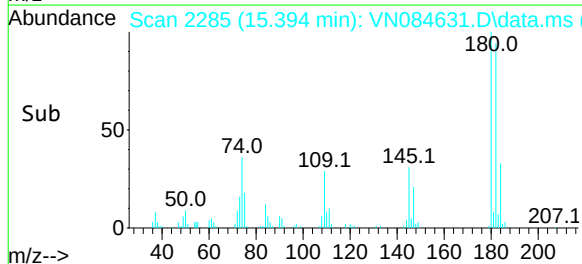
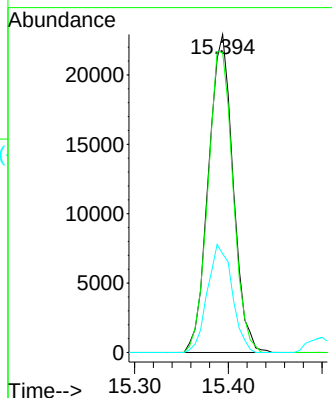
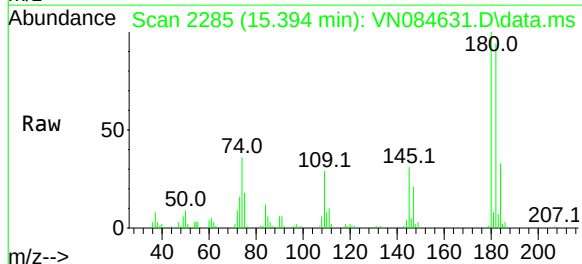
182 96.5 47.0 141.0

145 34.1 16.4 49.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
 Supervised By :Semsettin Yesilyurt 11/04/2024



#94

Hexachlorobutadiene

Concen: 15.799 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

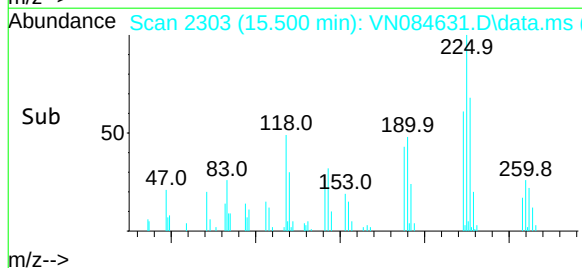
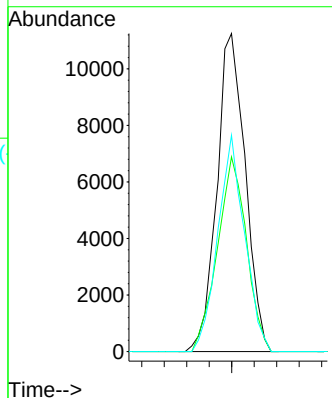
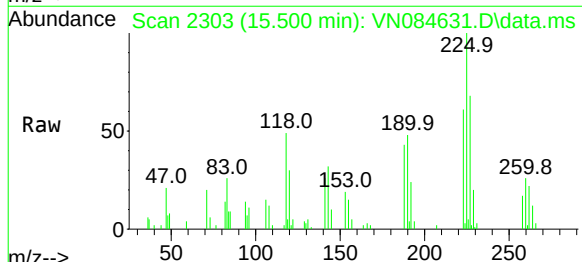
Tgt Ion:225 Resp: 19729

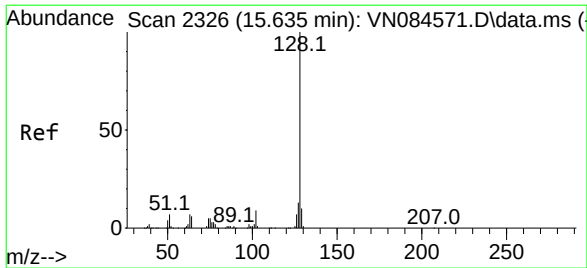
Ion Ratio Lower Upper

225 100

223 62.6 32.4 97.2

227 64.2 32.4 97.0





#95

Naphthalene

Concen: 15.357 ug/l

RT: 15.641 min Scan# 2326

Delta R.T. 0.006 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBS01

Tgt Ion:128 Resp: 130709

Ion Ratio Lower Upper

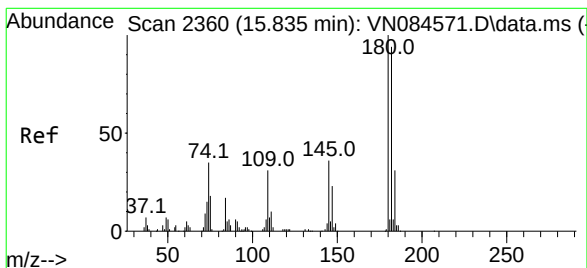
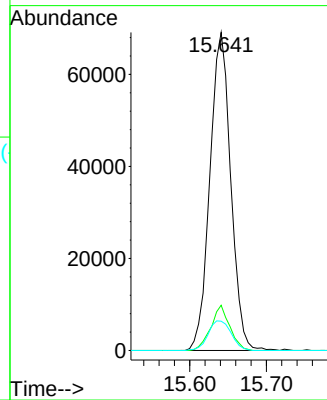
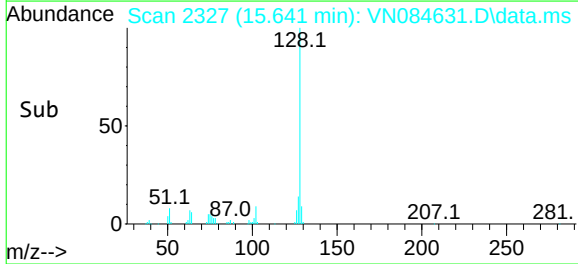
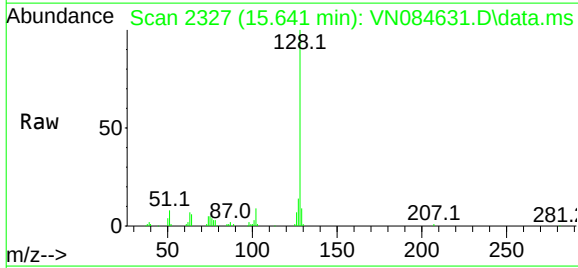
128 100

127 12.9 10.5 15.7

129 10.3 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#96

1,2,3-Trichlorobenzene

Concen: 15.273 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN084631.D

Acq: 01 Nov 2024 12:08

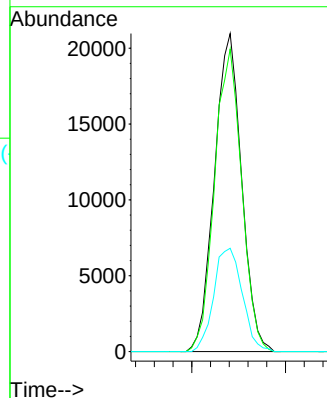
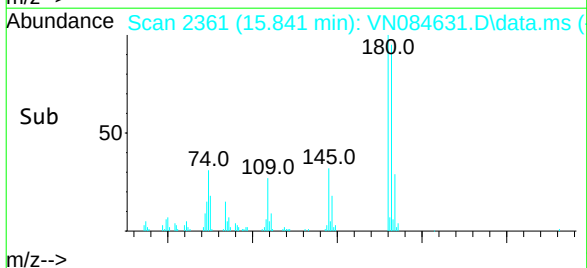
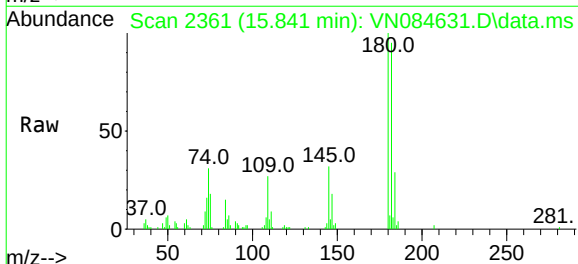
Tgt Ion:180 Resp: 42159

Ion Ratio Lower Upper

180 100

182 94.8 48.2 144.6

145 34.2 17.3 51.9



Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	
Project:	CTO WE13			Date Received:	
Client Sample ID:	VN1101WBSD01			SDG No.:	P4665
Lab Sample ID:	VN1101WBSD01			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
VN084632.D	1		11/01/24 12:32	VN110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	16.8		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	18.9		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	18.4		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	19.0		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.1		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.7		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.5		0.26	0.75	1.00	ug/L
67-64-1	Acetone	110		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	17.5		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.4		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	19.4		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.0		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.9		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	100		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.1		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.6		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	20.1		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	19.6		0.19	0.50	1.00	ug/L
71-43-2	Benzene	19.4		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.4		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	20.1		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	20.1		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	2.50	5.00	ug/L
108-88-3	Toluene	20.8		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.3		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.6		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.1		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	
Project:	CTO WE13			Date Received:	
Client Sample ID:	VN1101WBSD01			SDG No.:	P4665
Lab Sample ID:	VN1101WBSD01			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
VN084632.D	1		11/01/24 12:32	VN110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	21.1		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	19.8		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	18.9		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.4		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	39.8		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	20.1		0.14	0.50	1.00	ug/L
100-42-5	Styrene	20.2		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	19.5		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	19.2		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.7		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	17.3		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.5		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.2		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.0		81 - 118		90%	SPK: 50
1868-53-7	Dibromofluoromethane	46.5		80 - 119		93%	SPK: 50
2037-26-5	Toluene-d8	46.3		89 - 112		93%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.5		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	180000	8.224				
540-36-3	1,4-Difluorobenzene	304000	9.1				
3114-55-4	Chlorobenzene-d5	276000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	140000	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\VN110124\
 Data File : VN084632.D
 Acq On : 01 Nov 2024 12:32
 Operator : JC\MD
 Sample : VN1101WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1101WBSD01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
 Supervised By :Semsettin Yesilyurt 11/04/2024

Quant Time: Nov 04 04:25:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	179647	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	303928	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	276373	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	139639	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	116705	44.978	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	89.960%
35) Dibromofluoromethane	8.165	113	95578	46.460	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	92.920%
50) Toluene-d8	10.565	98	350812	46.293	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	92.580%
62) 4-Bromofluorobenzene	12.847	95	131770	46.526	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	93.060%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	39968	19.353	ug/l	97
3) Chloromethane	2.365	50	44651	16.750	ug/l	100
4) Vinyl Chloride	2.512	62	41926	18.875	ug/l	96
5) Bromomethane	2.901	94	21697	18.436	ug/l	93
6) Chloroethane	3.071	64	27307	18.995	ug/l	95
7) Trichlorofluoromethane	3.465	101	73409	20.063	ug/l	94
8) Diethyl Ether	3.948	74	26516	20.543	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.359	101	40756	19.712	ug/l	96
10) Methyl Iodide	4.577	142	53396	19.324	ug/l	95
11) Tert butyl alcohol	5.542	59	32016	93.479	ug/l	98
12) 1,1-Dichloroethene	4.324	96	37823	18.488	ug/l	96
13) Acrolein	4.177	56	35001	102.484	ug/l	97
14) Allyl chloride	5.012	41	64716	19.506	ug/l	92
15) Acrylonitrile	5.718	53	104289	105.182	ug/l	98
16) Acetone	4.424	43	80384	105.601	ug/l	99
17) Carbon Disulfide	4.701	76	110433	17.529	ug/l	99
18) Methyl Acetate	5.012	43	56734	18.181	ug/l	100
19) Methyl tert-butyl Ether	5.795	73	128070	20.424	ug/l	97
20) Methylene Chloride	5.271	84	44336	19.428	ug/l	86
21) trans-1,2-Dichloroethene	5.771	96	39898	18.993	ug/l	99
22) Diisopropyl ether	6.671	45	136989	20.780	ug/l	97
23) Vinyl Acetate	6.600	43	473087	104.061	ug/l	99
24) 1,1-Dichloroethane	6.559	63	78807	19.911	ug/l	96
25) 2-Butanone	7.483	43	126655	104.629	ug/l	99
26) 2,2-Dichloropropane	7.489	77	68278	19.820	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	48150	19.630	ug/l	98
28) Bromochloromethane	7.812	49	34905	22.135	ug/l	93
29) Tetrahydrofuran	7.841	42	83561	104.051	ug/l	96
30) Chloroform	7.959	83	80798	20.057	ug/l	96
31) Cyclohexane	8.253	56	69908	19.515	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	73597	20.072	ug/l	98
36) 1,1-Dichloropropene	8.365	75	54311	19.036	ug/l	99
37) Ethyl Acetate	7.559	43	54883	21.202	ug/l	98
38) Carbon Tetrachloride	8.359	117	63997	20.068	ug/l	98
39) Methylcyclohexane	9.600	83	56902	19.604	ug/l	99
40) Benzene	8.600	78	178059	19.433	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
 Data File : VN084632.D
 Acq On : 01 Nov 2024 12:32
 Operator : JC\MD
 Sample : VN1101WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1101WBSD01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
 Supervised By :Semsettin Yesilyurt 11/04/2024

Quant Time: Nov 04 04:25:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	29975	21.533	ug/l	96
42) 1,2-Dichloroethane	8.671	62	60410	20.358	ug/l	98
43) Isopropyl Acetate	8.688	43	94407	19.145	ug/l	99
44) Trichloroethene	9.347	130	40547	19.188	ug/l	97
45) 1,2-Dichloropropane	9.624	63	43144	20.073	ug/l	99
46) Dibromomethane	9.706	93	29954	19.750	ug/l	96
47) Bromodichloromethane	9.888	83	64340	20.125	ug/l	93
48) Methyl methacrylate	9.683	41	41114	20.408	ug/l	96
49) 1,4-Dioxane	9.700	88	15620	437.525	ug/l	95
51) 4-Methyl-2-Pentanone	10.447	43	269825	109.342	ug/l	99
52) Toluene	10.630	92	111675	20.840	ug/l	98
53) t-1,3-Dichloropropene	10.835	75	63947	19.323	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	68709	19.617	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	42554	21.081	ug/l	94
56) Ethyl methacrylate	10.871	69	62143	21.283	ug/l	98
57) 1,3-Dichloropropane	11.159	76	70269	20.283	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	137129	100.367	ug/l	98
59) 2-Hexanone	11.194	43	194808	108.454	ug/l	97
60) Dibromochloromethane	11.359	129	48478	21.072	ug/l	100
61) 1,2-Dibromoethane	11.465	107	42488	20.554	ug/l	96
64) Tetrachloroethene	11.100	164	36361	19.779	ug/l	95
65) Chlorobenzene	11.888	112	116675	18.870	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	42973	19.982	ug/l	99
67) Ethyl Benzene	11.965	91	200430	19.420	ug/l	99
68) m/p-Xylenes	12.071	106	155447	39.784	ug/l	98
69) o-Xylene	12.400	106	73499	20.108	ug/l	98
70) Styrene	12.412	104	128498	20.153	ug/l	98
71) Bromoform	12.576	173	31565	19.505	ug/l #	97
73) Isopropylbenzene	12.694	105	187731	19.185	ug/l	100
74) N-aryl acetate	12.494	43	80040	19.218	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	61000	18.676	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	50243m	18.000	ug/l	
77) Bromobenzene	12.976	156	48197	18.321	ug/l	93
78) n-propylbenzene	13.035	91	219361	19.130	ug/l	99
79) 2-Chlorotoluene	13.124	91	142054	18.959	ug/l	98
80) 1,3,5-Trimethylbenzene	13.171	105	161079	19.861	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	21497	18.271	ug/l	97
82) 4-Chlorotoluene	13.218	91	143409	18.187	ug/l	97
83) tert-Butylbenzene	13.435	119	137807	20.530	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	164356	19.634	ug/l	98
85) sec-Butylbenzene	13.612	105	184495	19.458	ug/l	99
86) p-Isopropyltoluene	13.729	119	155045	19.939	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	89011	17.338	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	90455	18.501	ug/l	100
89) n-Butylbenzene	14.053	91	126197	17.349	ug/l	99
90) Hexachloroethane	14.329	117	30596	17.643	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	89620	18.166	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.723	75	12000	18.135	ug/l	97
93) 1,2,4-Trichlorobenzene	15.394	180	43138	15.975	ug/l	99
94) Hexachlorobutadiene	15.500	225	19708	16.620	ug/l	98
95) Naphthalene	15.641	128	131737	16.299	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	42176	16.090	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084632.D
Acq On : 01 Nov 2024 12:32
Operator : JC\MD
Sample : VN1101WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

Quant Time: Nov 04 04:25:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

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

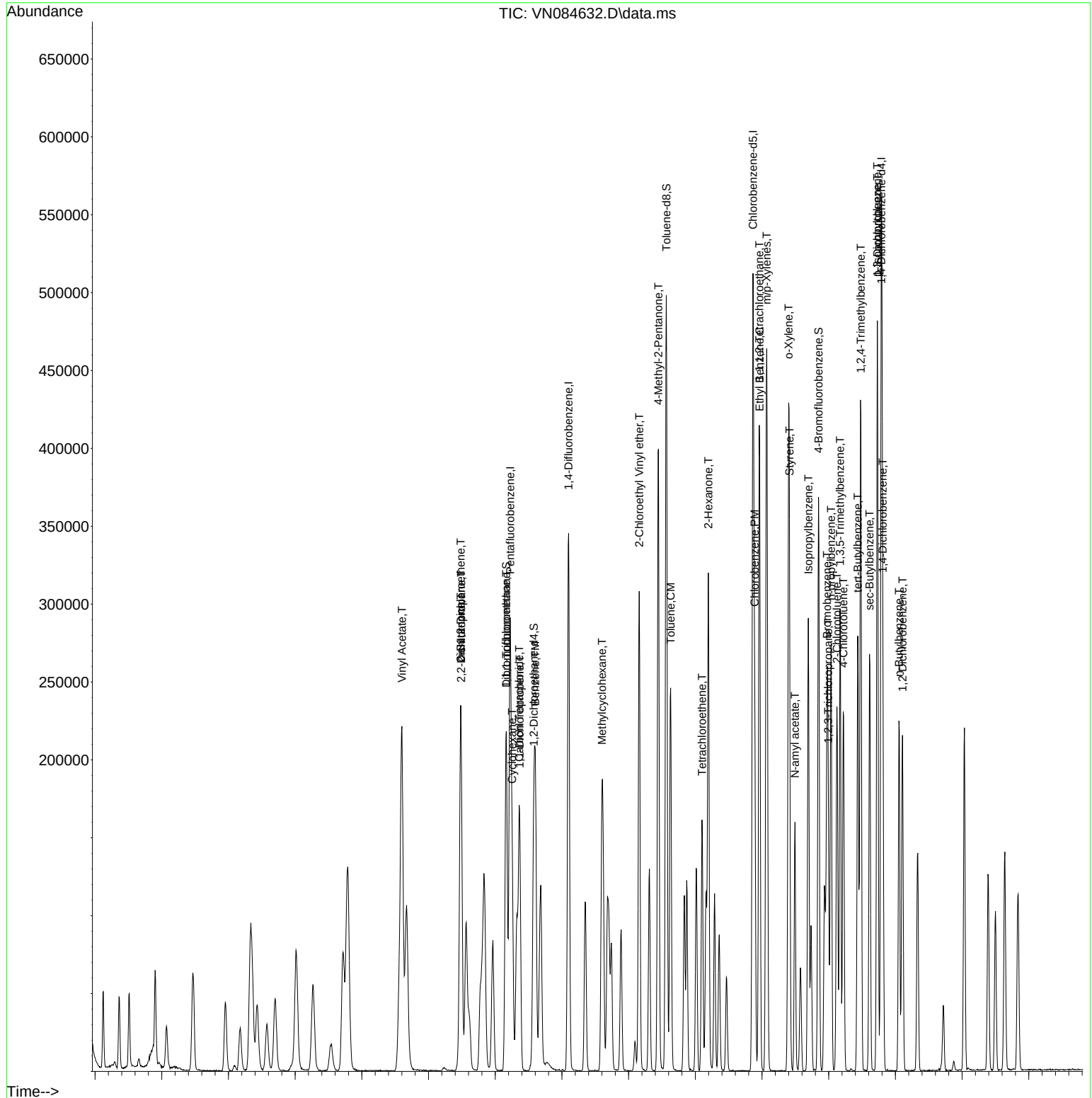
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084632.D
Acq On : 01 Nov 2024 12:32
Operator : JC\MD
Sample : VN1101WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

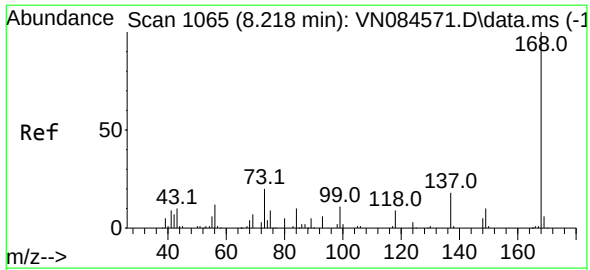
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBSD01

Manual Integrations
APPROVED

Reviewed By : Mahesh Dadoda 11/04/2024
Supervised By : Semsettin Yesilyurt 11/04/2024

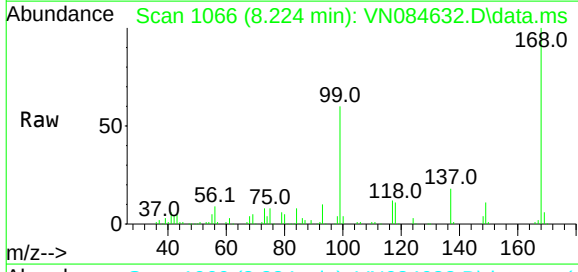
Quant Time: Nov 04 04:25:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

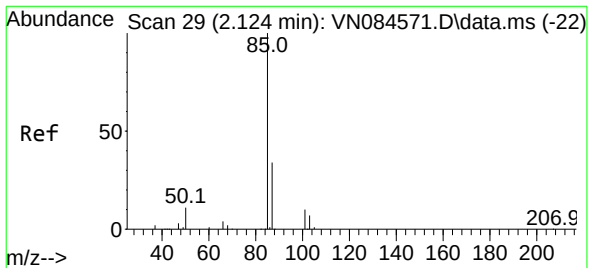
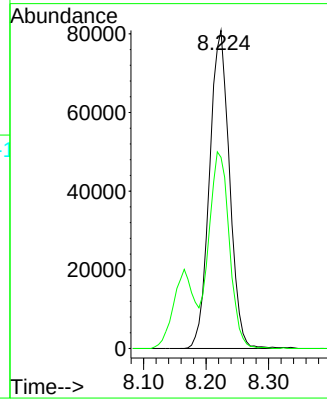
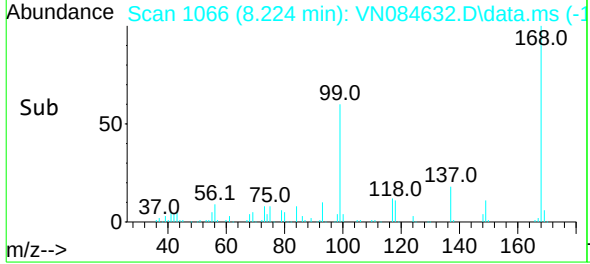
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBSD01



Tgt Ion: 168 Resp: 179647
Ion Ratio Lower Upper
168 100
99 60.1 54.2 81.2

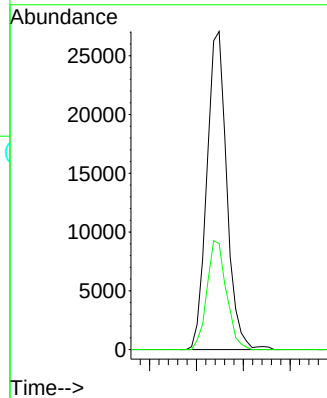
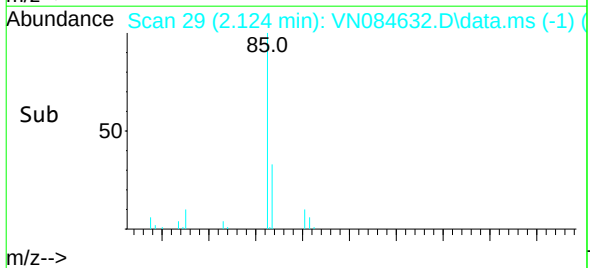
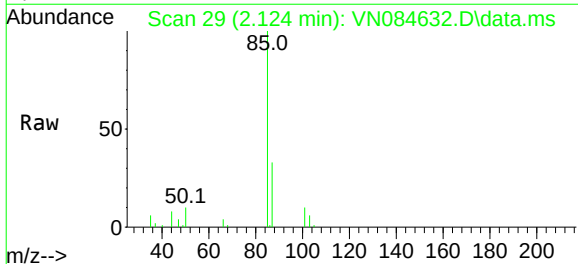
Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

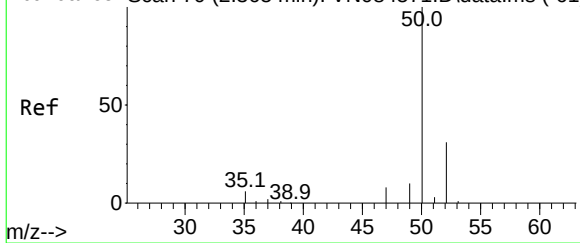


#2
Dichlorodifluoromethane
Concen: 19.353 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

Tgt Ion: 85 Resp: 39968
Ion Ratio Lower Upper
85 100
87 33.4 17.6 52.9



Abundance Scan 70 (2.365 min): VN084571.D\data.ms (-61)



#3

Chloromethane

Concen: 16.750 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion: 50 Resp: 44651

Ion Ratio Lower Upper

50 100

52 33.2 26.8 40.2

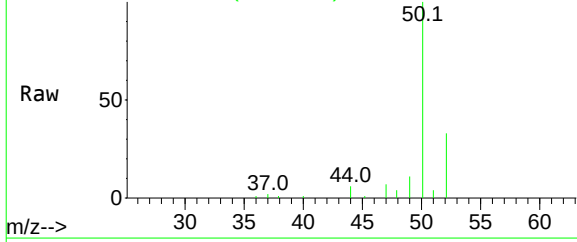
Manual Integrations

APPROVED

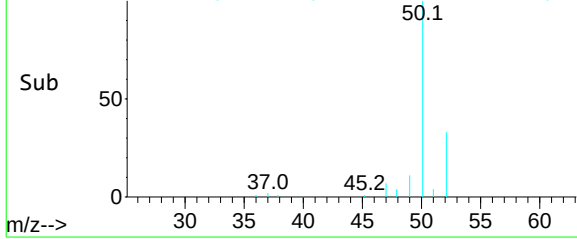
Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024

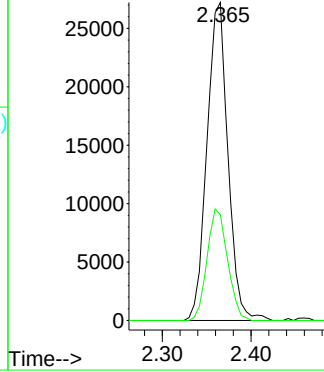
Abundance Scan 70 (2.365 min): VN084632.D\data.ms



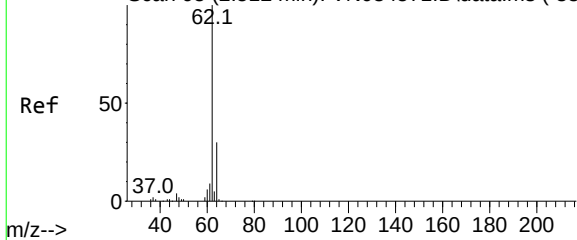
Abundance Scan 70 (2.365 min): VN084632.D\data.ms (-18)



Abundance



Abundance Scan 95 (2.512 min): VN084571.D\data.ms (-88)



#4

Vinyl Chloride

Concen: 18.875 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.006 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

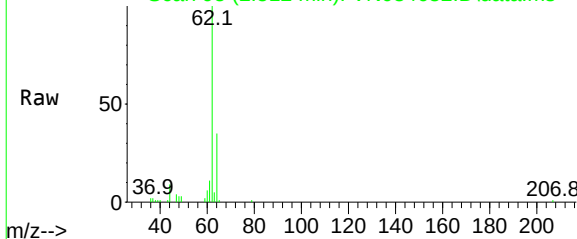
Tgt Ion: 62 Resp: 41926

Ion Ratio Lower Upper

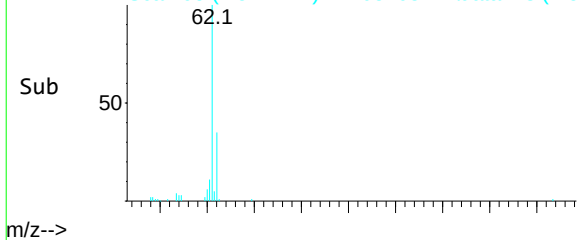
62 100

64 34.9 26.2 39.4

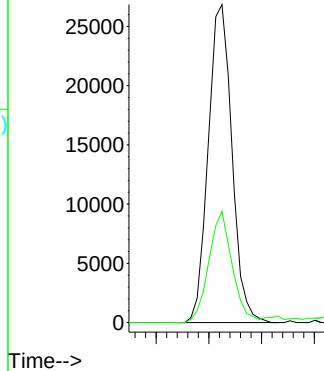
Abundance Scan 95 (2.512 min): VN084632.D\data.ms

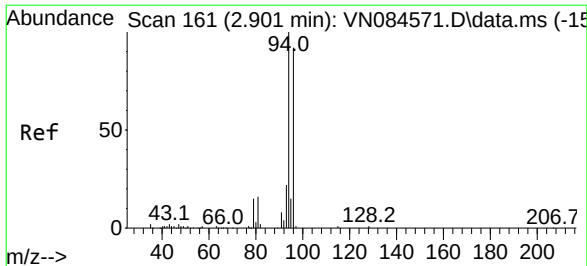


Abundance Scan 95 (2.512 min): VN084632.D\data.ms (-45)



Abundance





#5

Bromomethane

Concen: 18.436 ug/l

RT: 2.901 min Scan# 161

Delta R.T. -0.052 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion: 94 Resp: 21697

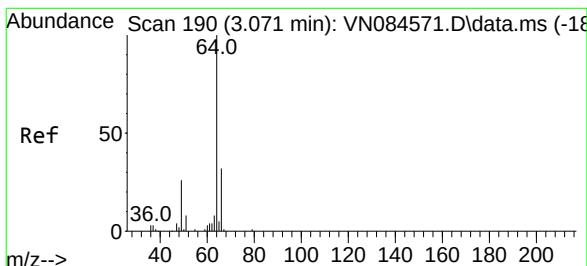
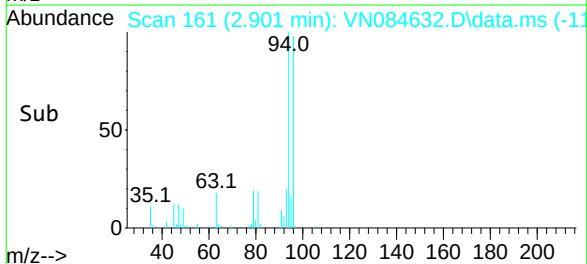
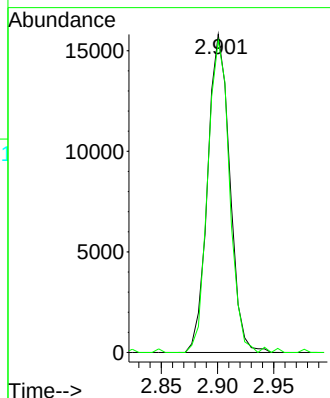
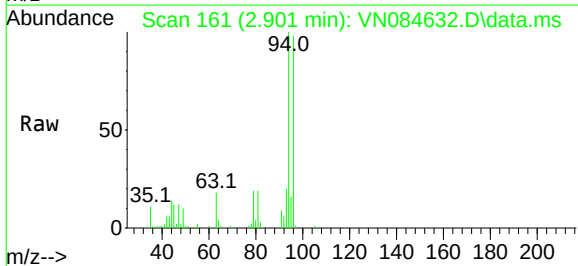
Ion Ratio Lower Upper

94 100

96 98.1 72.9 109.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#6

Chloroethane

Concen: 18.995 ug/l

RT: 3.071 min Scan# 190

Delta R.T. -0.047 min

Lab File: VN084632.D

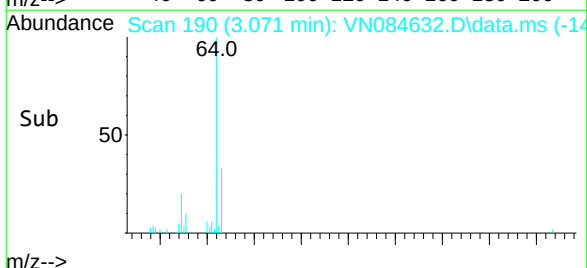
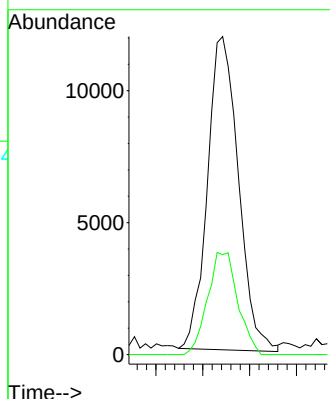
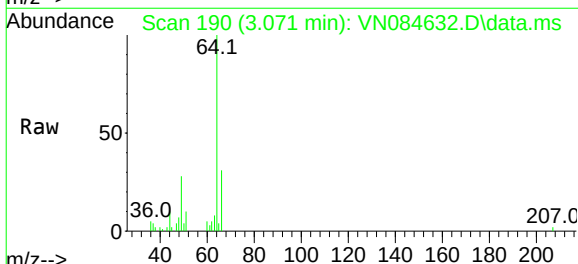
Acq: 01 Nov 2024 12:32

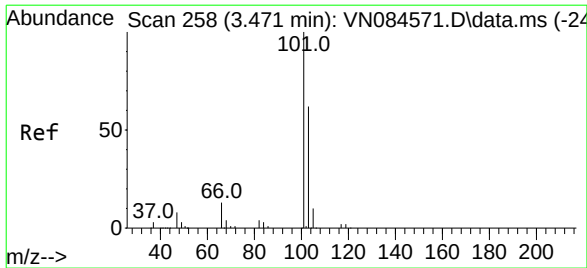
Tgt Ion: 64 Resp: 27307

Ion Ratio Lower Upper

64 100

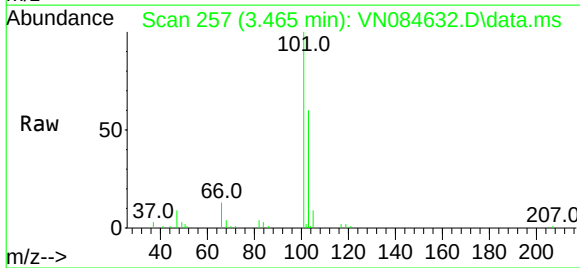
66 32.0 23.5 35.3





#7
Trichlorofluoromethane
Concen: 20.063 ug/l
RT: 3.465 min Scan# 258
Delta R.T. -0.030 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

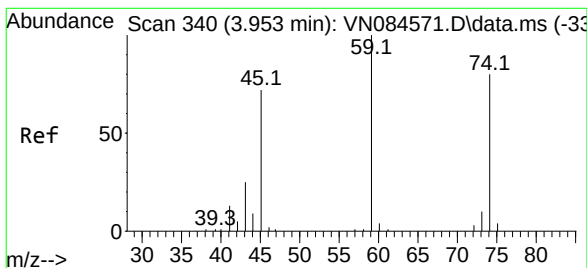
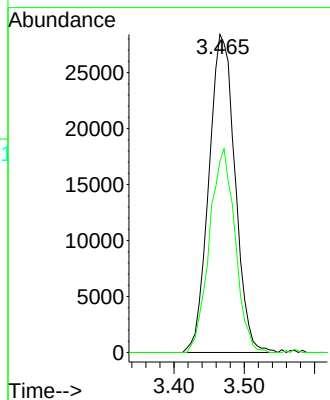
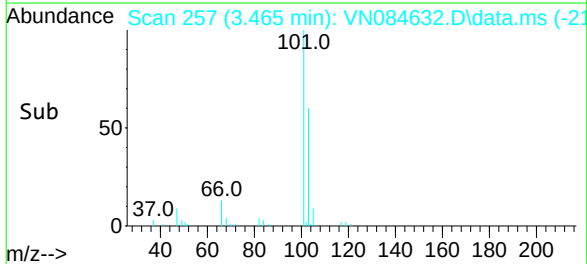
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBSD01



Tgt Ion: 101 Resp: 73409
Ion Ratio Lower Upper
101 100
103 60.1 51.8 77.6

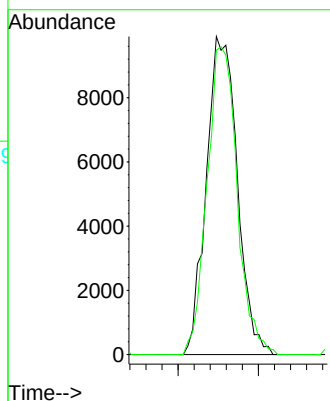
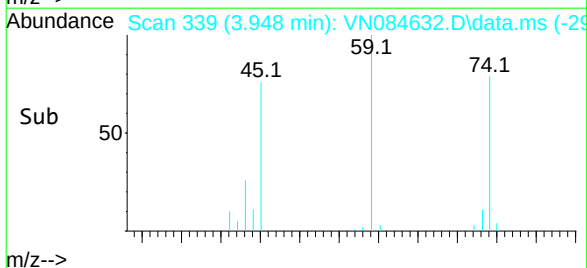
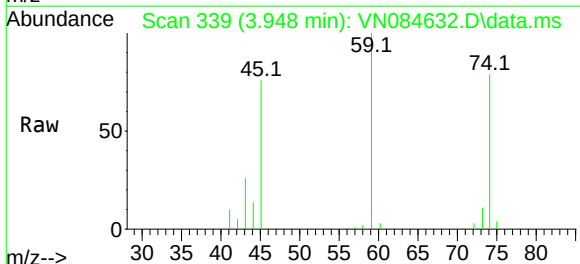
Manual Integrations
APPROVED

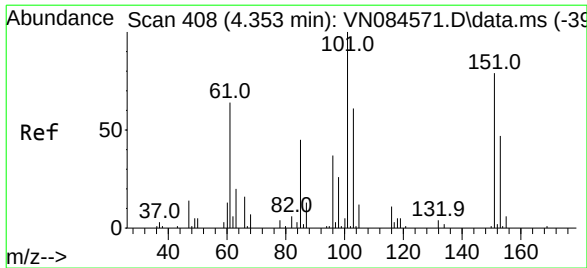
Reviewed By : Mahesh Dadoda 11/04/2024
Supervised By : Semsettin Yesilyurt 11/04/2024



#8
Diethyl Ether
Concen: 20.543 ug/l
RT: 3.948 min Scan# 339
Delta R.T. -0.011 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

Tgt Ion: 74 Resp: 26516
Ion Ratio Lower Upper
74 100
45 94.2 47.7 143.1





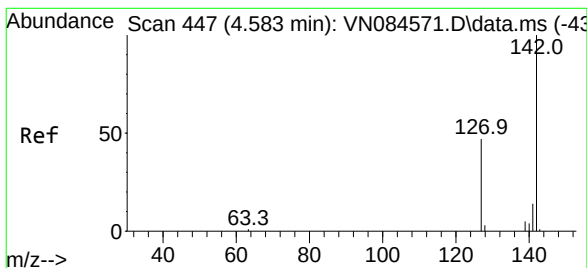
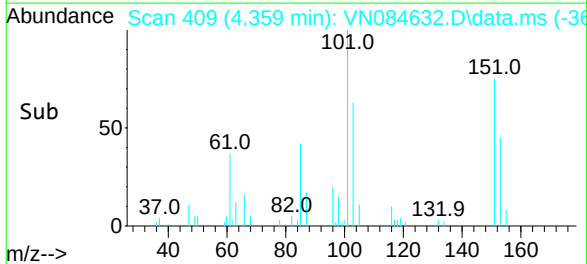
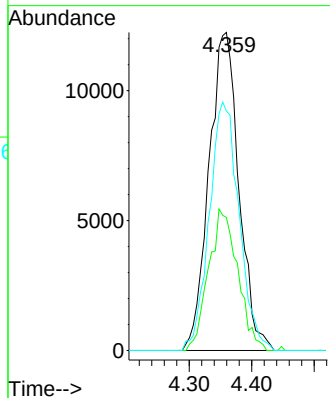
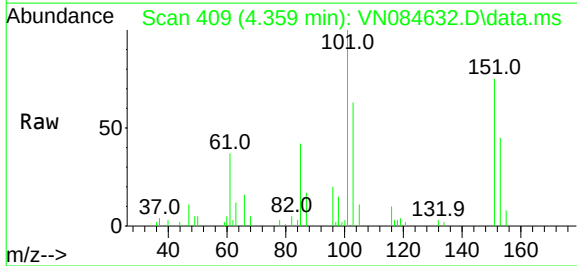
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.712 ug/l
RT: 4.359 min Scan# 408
Delta R.T. -0.012 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBSD01

Tgt Ion	Ratio	Lower	Upper
101	100		
85	43.3	36.2	54.4
151	77.9	59.3	88.9

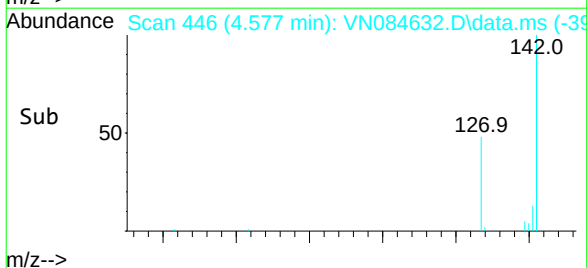
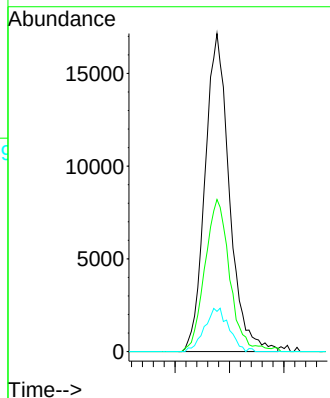
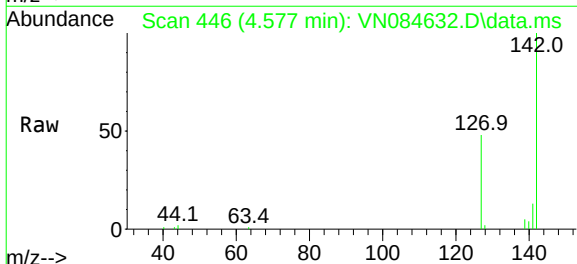
Manual Integrations
APPROVED

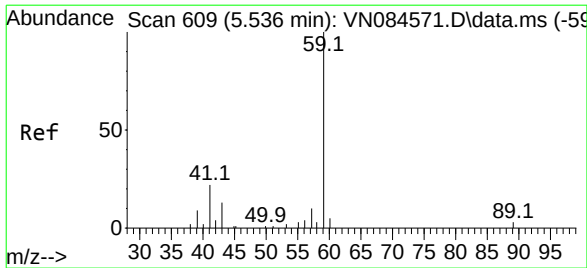
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#10
Methyl Iodide
Concen: 19.324 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.018 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

Tgt Ion	Ratio	Lower	Upper
142	100		
127	47.8	35.3	52.9
141	12.6	11.0	16.6





#11

Tert butyl alcohol

Concen: 93.479 ug/l

RT: 5.542 min Scan# 61

Delta R.T. 0.018 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion: 59 Resp: 32016

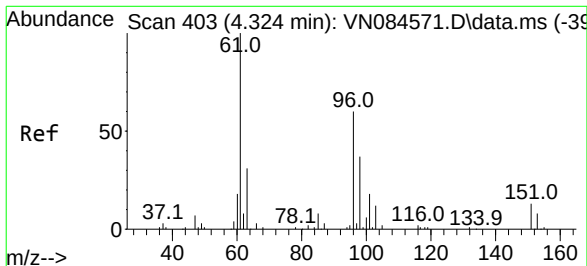
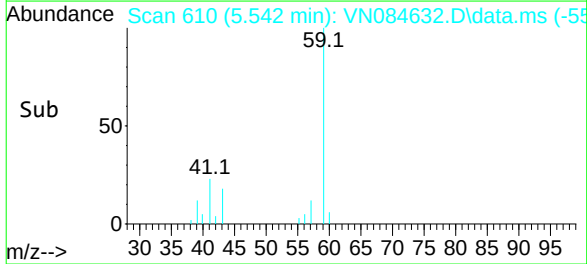
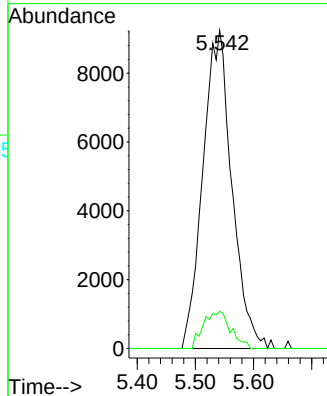
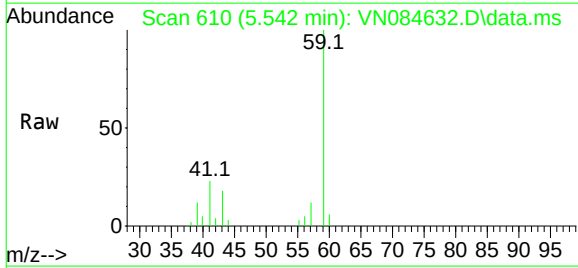
Ion Ratio Lower Upper

59 100

57 11.0 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#12

1,1-Dichloroethene

Concen: 18.488 ug/l

RT: 4.324 min Scan# 403

Delta R.T. -0.018 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

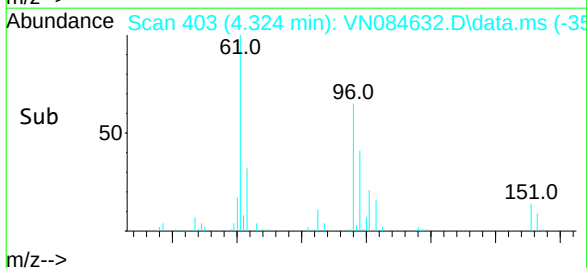
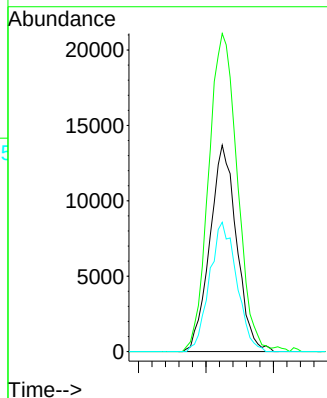
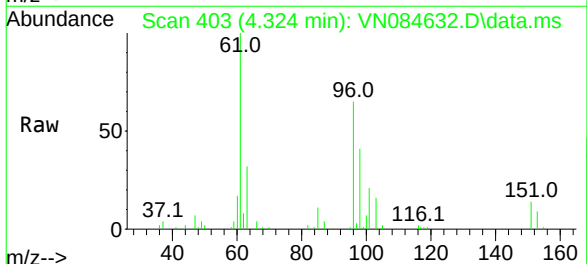
Tgt Ion: 96 Resp: 37823

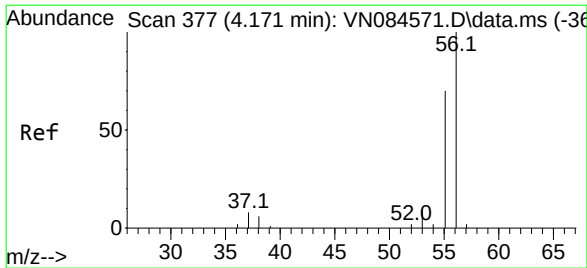
Ion Ratio Lower Upper

96 100

61 154.1 128.6 192.8

98 62.6 51.7 77.5





#13

Acrolein

Concen: 102.484 ug/l

RT: 4.177 min Scan# 37

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion: 56 Resp: 35001

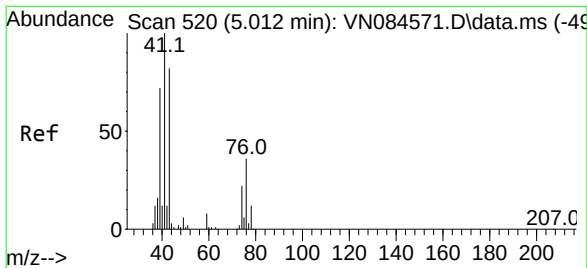
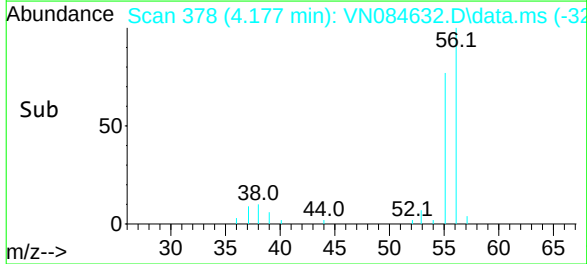
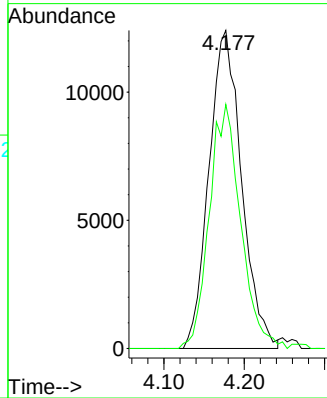
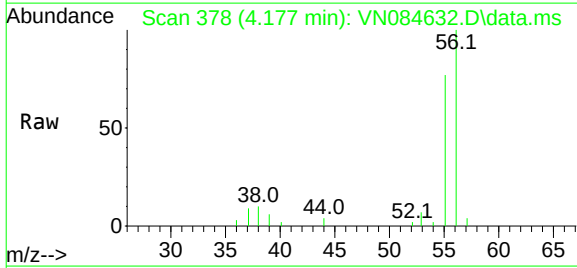
Ion Ratio Lower Upper

56 100

55 73.7 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#14

Allyl chloride

Concen: 19.506 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.012 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

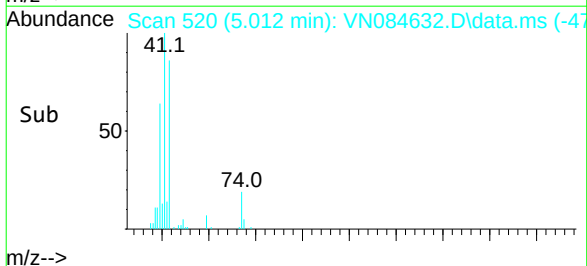
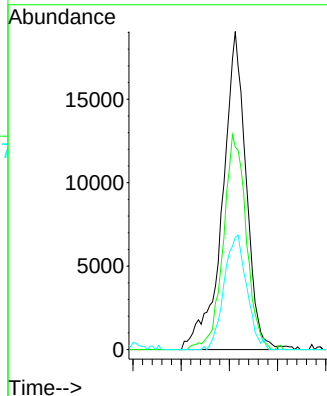
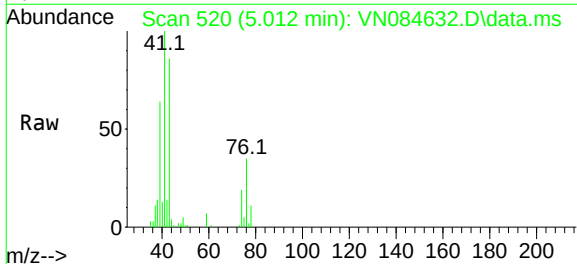
Tgt Ion: 41 Resp: 64716

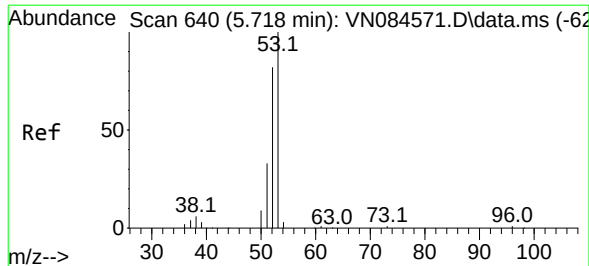
Ion Ratio Lower Upper

41 100

39 65.6 59.0 88.6

76 34.6 29.8 44.6





#15

Acrylonitrile

Concen: 105.182 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion: 53 Resp: 104289

Ion Ratio Lower Upper

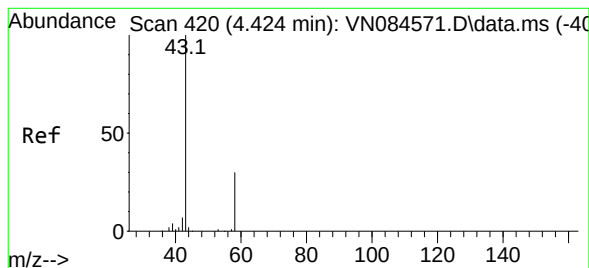
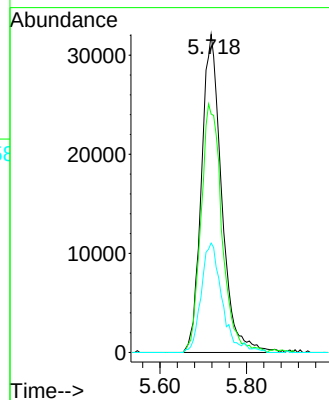
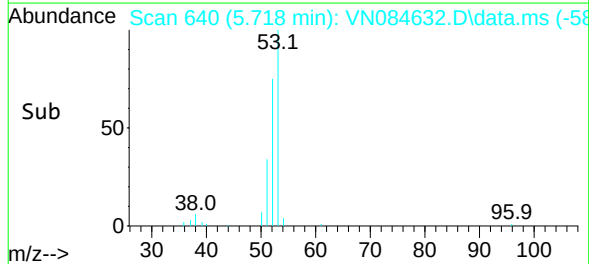
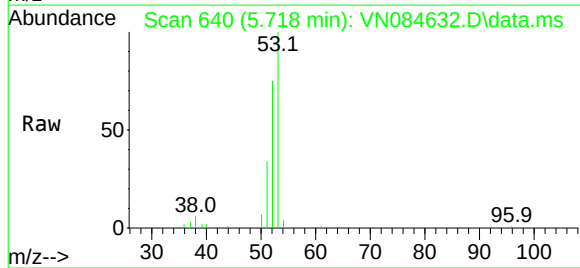
53 100

52 80.8 66.2 99.4

51 34.5 28.8 43.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#16

Acetone

Concen: 105.601 ug/l

RT: 4.424 min Scan# 420

Delta R.T. 0.000 min

Lab File: VN084632.D

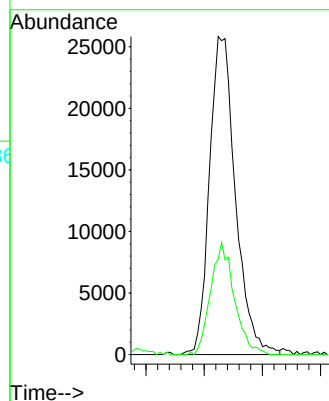
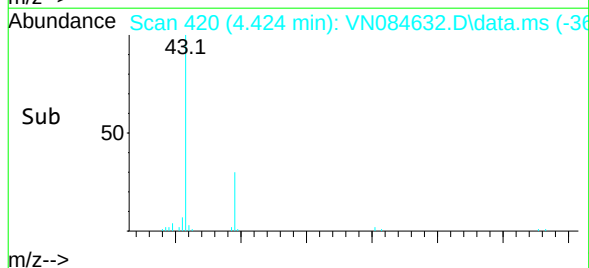
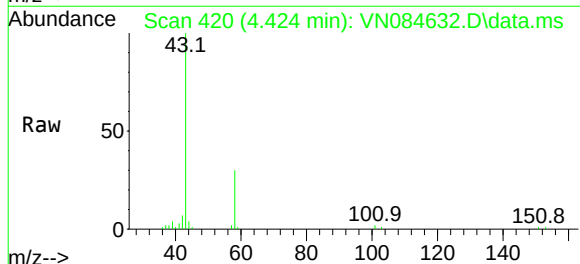
Acq: 01 Nov 2024 12:32

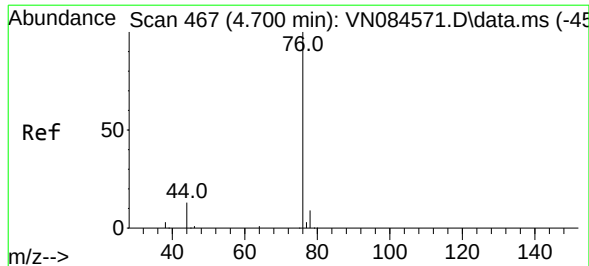
Tgt Ion: 43 Resp: 80384

Ion Ratio Lower Upper

43 100

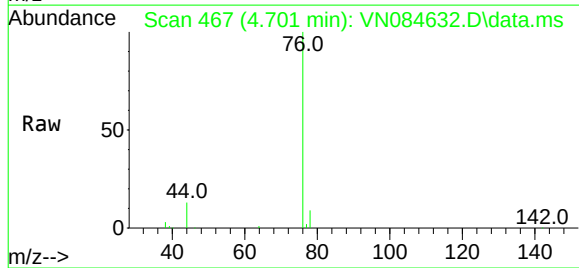
58 30.0 24.4 36.6





#17
Carbon Disulfide
Concen: 17.529 ug/l
RT: 4.701 min Scan# 467
Delta R.T. -0.011 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

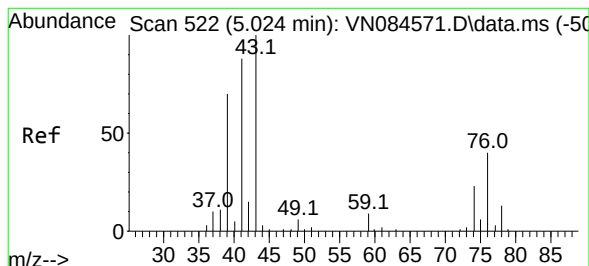
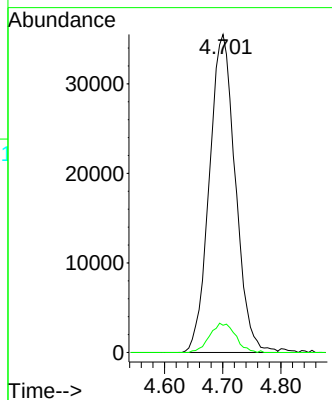
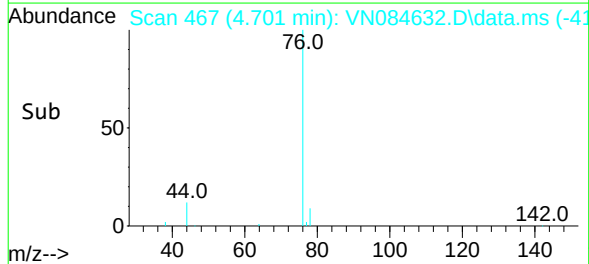
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBSD01



Tgt Ion: 76 Resp: 110433
Ion Ratio Lower Upper
76 100
78 8.6 7.3 10.9

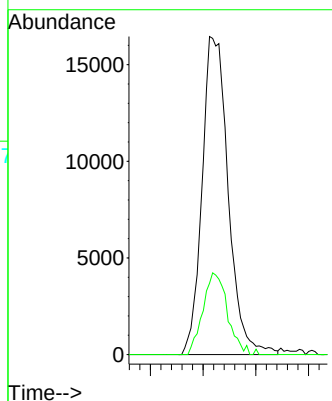
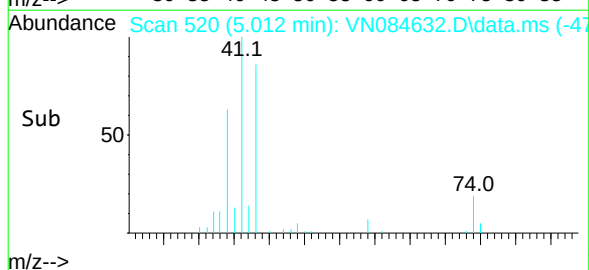
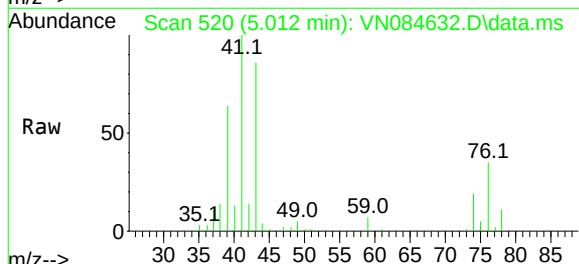
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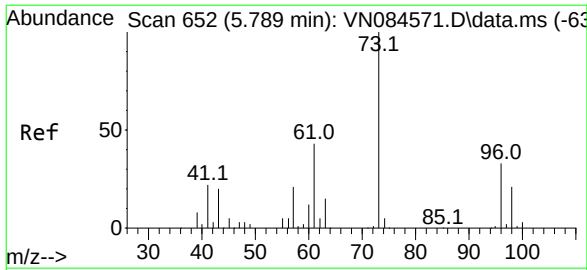
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#18
Methyl Acetate
Concen: 18.181 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

Tgt Ion: 43 Resp: 56734
Ion Ratio Lower Upper
43 100
74 24.0 19.2 28.8





#19

Methyl tert-butyl Ether

Concen: 20.424 ug/l

RT: 5.795 min Scan# 65

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion: 73 Resp: 128076

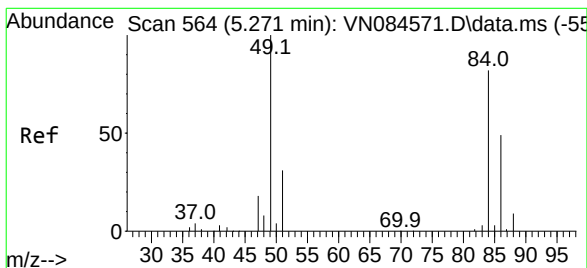
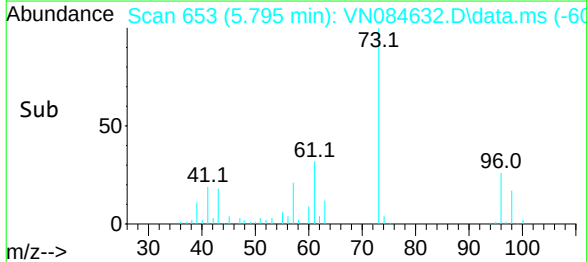
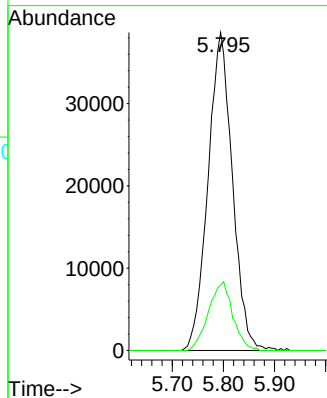
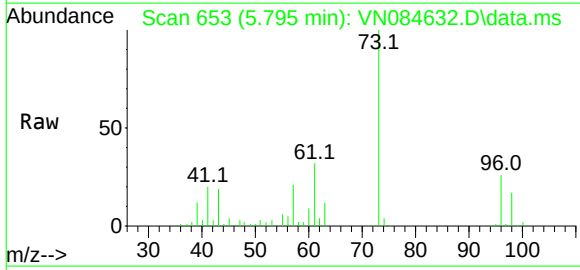
Ion Ratio Lower Upper

73 100

57 20.6 17.7 26.5

Manual Integrations

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Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#20

Methylene Chloride

Concen: 19.428 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.006 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Tgt Ion: 84 Resp: 44336

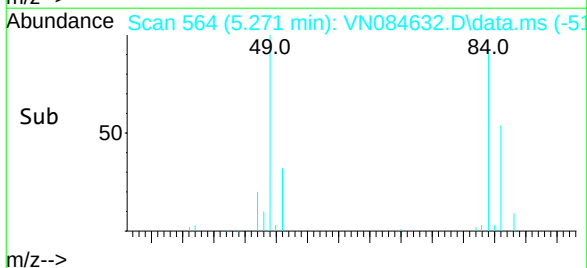
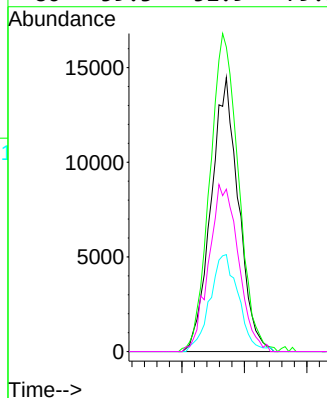
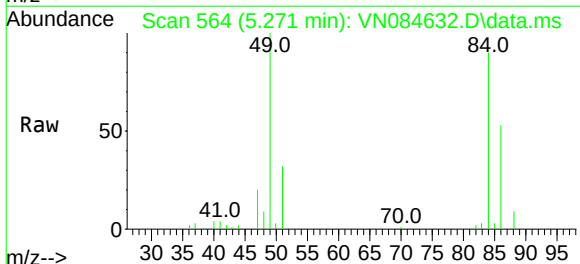
Ion Ratio Lower Upper

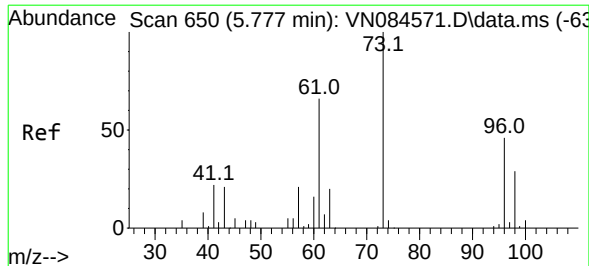
84 100

49 111.1 107.2 160.8

51 35.4 31.8 47.8

86 59.3 52.9 79.3





#21

trans-1,2-Dichloroethene

Concen: 18.993 ug/l

RT: 5.771 min Scan# 649

Delta R.T. -0.018 min

Lab File: VN084632.D

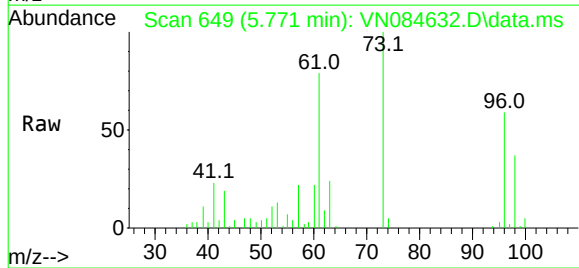
Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01



Tgt Ion: 96 Resp: 39898

Ion Ratio Lower Upper

96 100

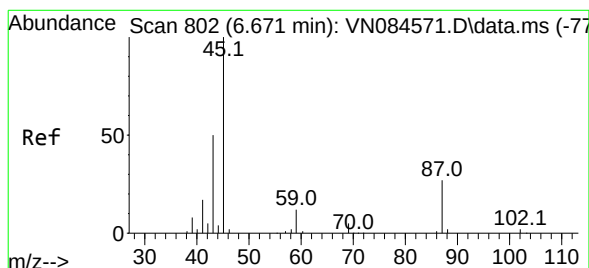
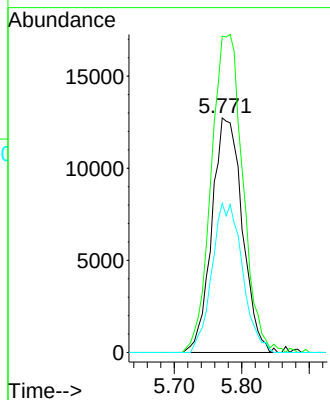
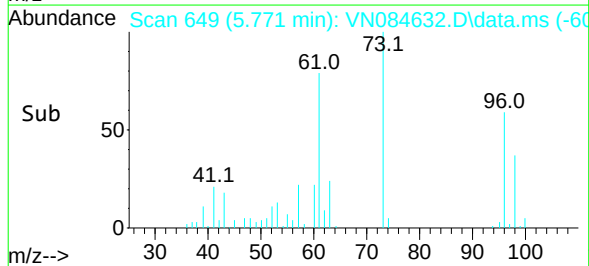
61 134.9 108.4 162.6

98 63.6 49.8 74.8

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Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#22

Diisopropyl ether

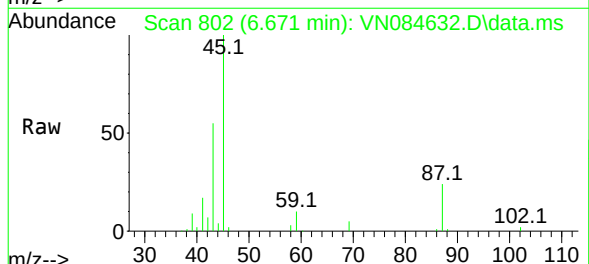
Concen: 20.780 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32



Tgt Ion: 45 Resp: 136989

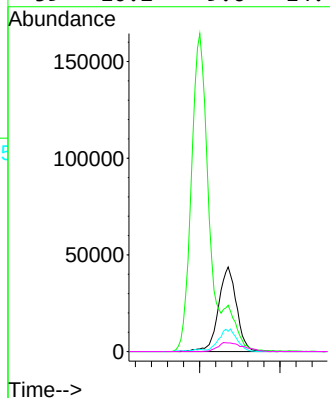
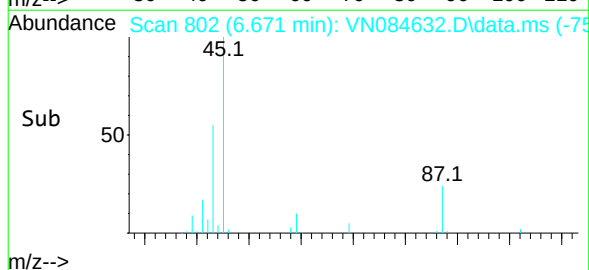
Ion Ratio Lower Upper

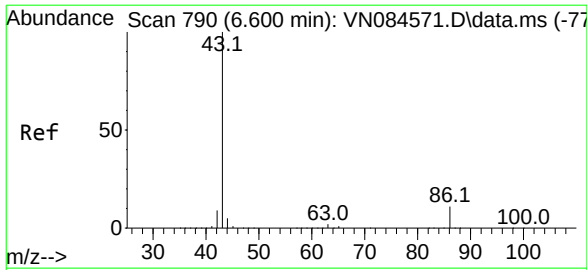
45 100

43 54.0 42.3 63.5

87 24.0 21.8 32.6

59 10.2 9.6 14.4





#23

Vinyl Acetate

Concen: 104.061 ug/l

RT: 6.600 min Scan# 790

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion: 43 Resp: 473087

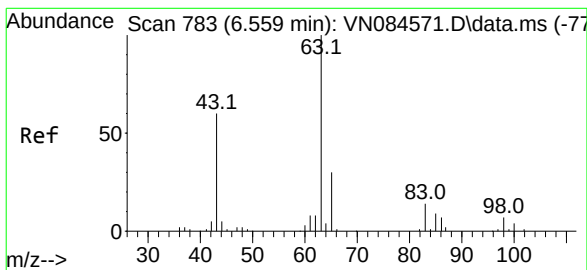
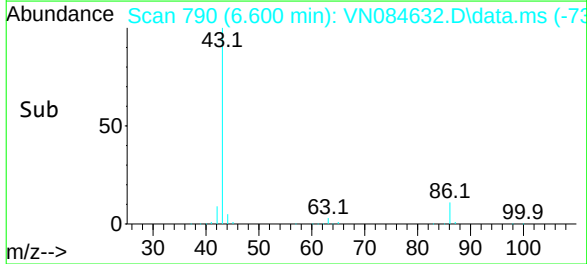
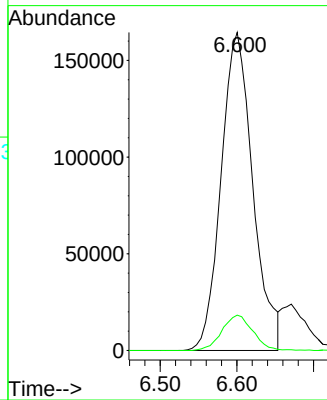
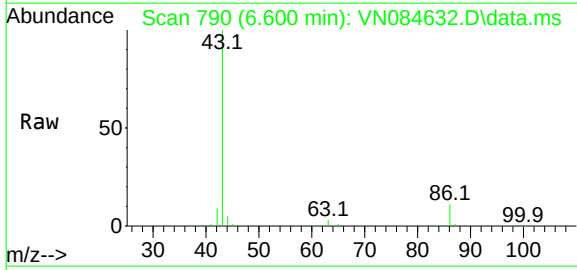
Ion Ratio Lower Upper

43 100

86 11.1 8.6 12.8

Manual Integrations

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Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#24

1,1-Dichloroethane

Concen: 19.911 ug/l

RT: 6.559 min Scan# 783

Delta R.T. -0.012 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

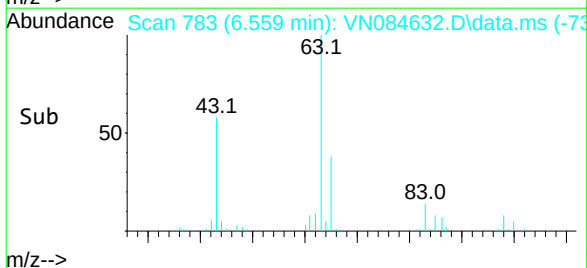
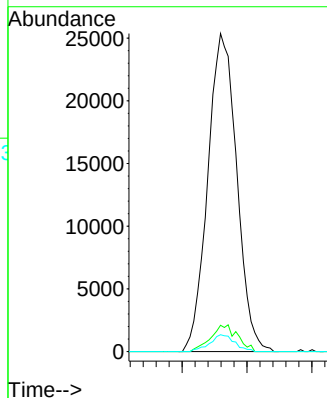
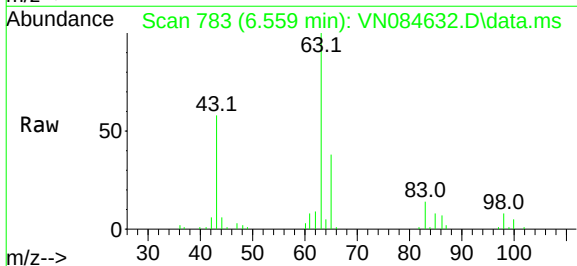
Tgt Ion: 63 Resp: 78807

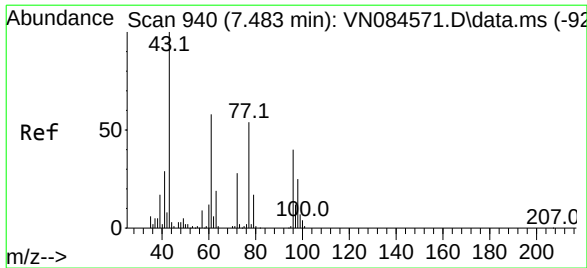
Ion Ratio Lower Upper

63 100

98 8.3 3.4 10.2

100 5.3 2.0 5.8





#25

2-Butanone

Concen: 104.629 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion: 43 Resp: 126655

Ion Ratio Lower Upper

43 100

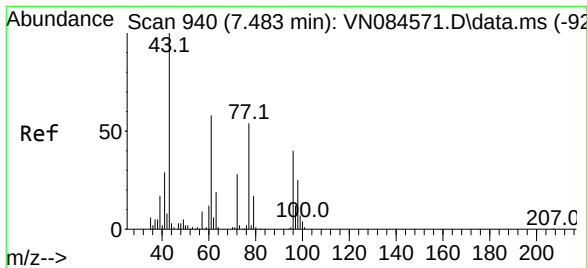
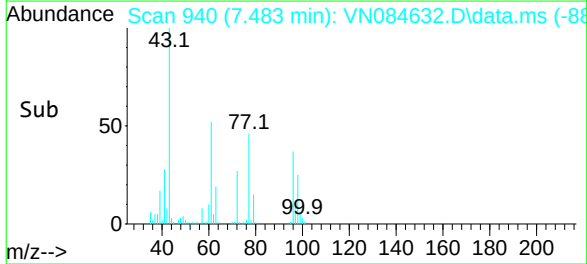
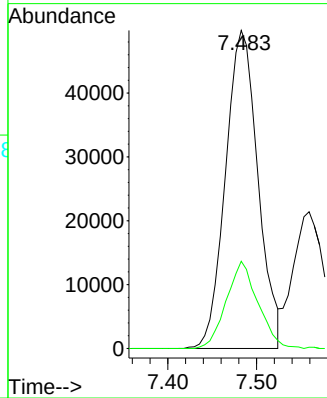
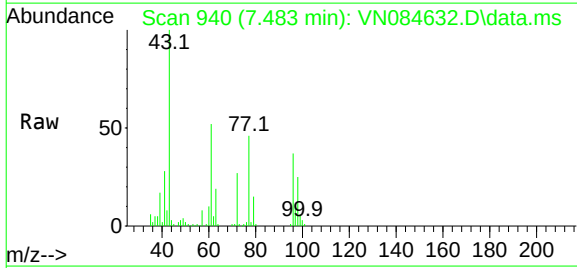
72 27.4 21.4 32.2

Manual Integrations

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Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024



#26

2,2-Dichloropropane

Concen: 19.820 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN084632.D

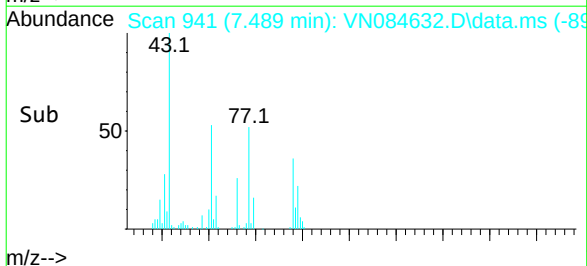
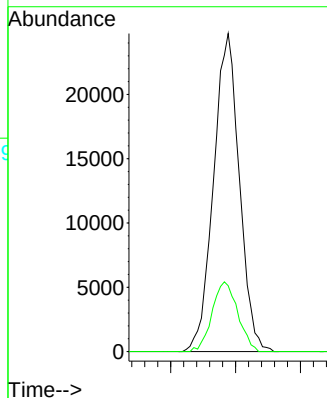
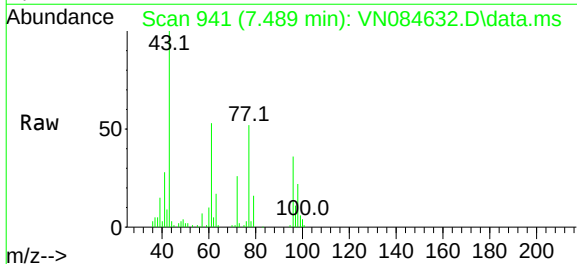
Acq: 01 Nov 2024 12:32

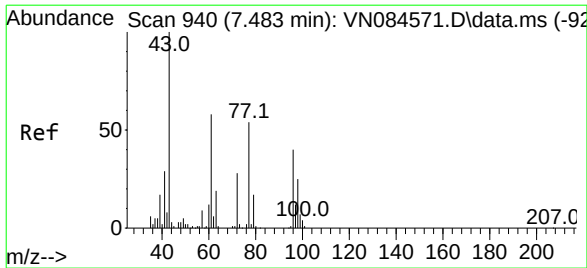
Tgt Ion: 77 Resp: 68278

Ion Ratio Lower Upper

77 100

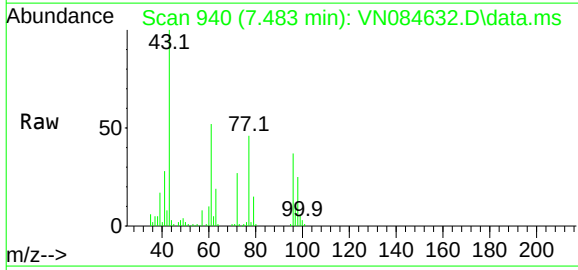
97 21.8 10.8 32.3





#27
cis-1,2-Dichloroethene
Concen: 19.630 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

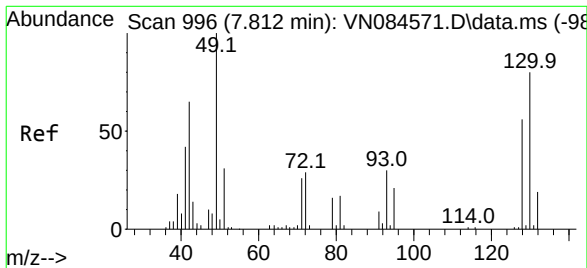
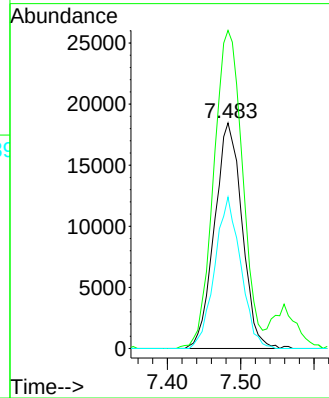
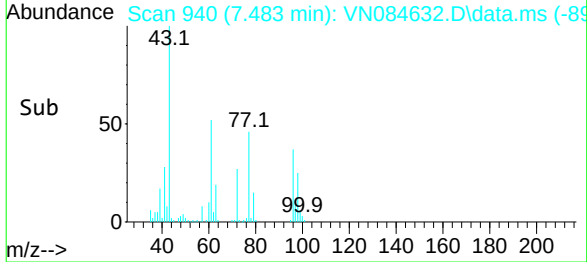
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBSD01



Tgt Ion: 96 Resp: 48150
Ion Ratio Lower Upper
96 100
61 147.2 0.0 301.8
98 63.6 0.0 128.2

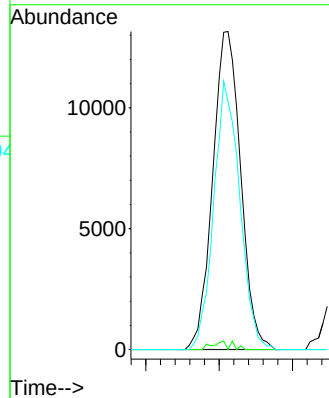
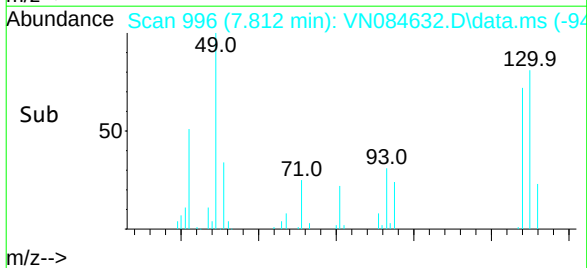
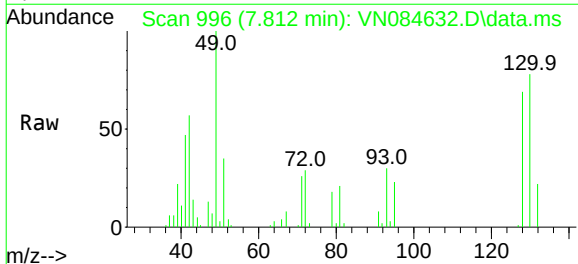
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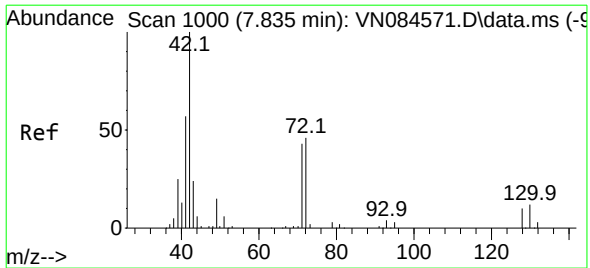
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#28
Bromochloromethane
Concen: 22.135 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

Tgt Ion: 49 Resp: 34905
Ion Ratio Lower Upper
49 100
129 1.2 0.0 3.6
130 78.4 58.0 87.0





#29

Tetrahydrofuran

Concen: 104.051 ug/l

RT: 7.841 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

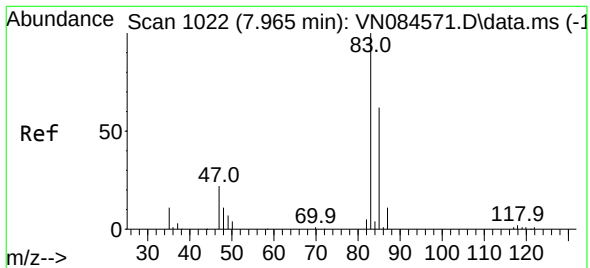
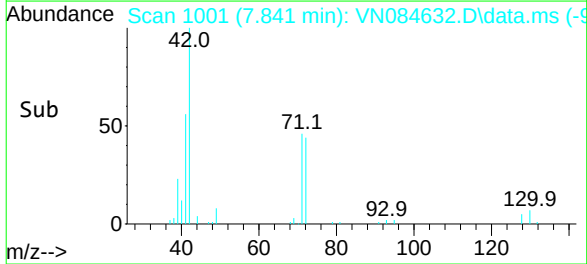
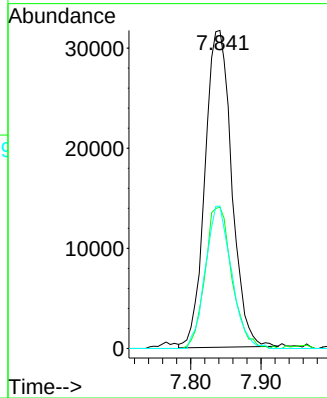
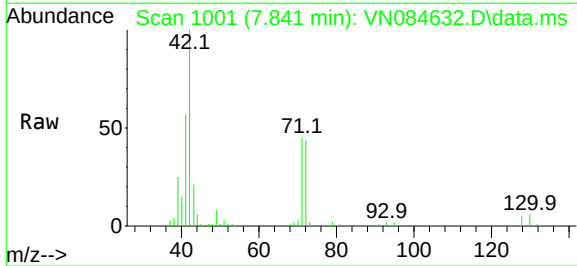
ClientSampleId :

VN1101WBSD01

Tgt Ion:	42	Resp:	83561
Ion	Ratio	Lower	Upper
42	100		
72	44.7	34.6	51.8
71	44.1	32.2	48.4

Manual Integrations
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Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#30

Chloroform

Concen: 20.057 ug/l

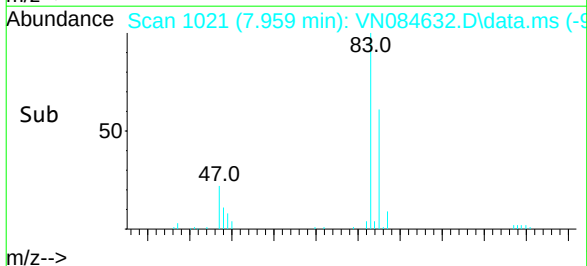
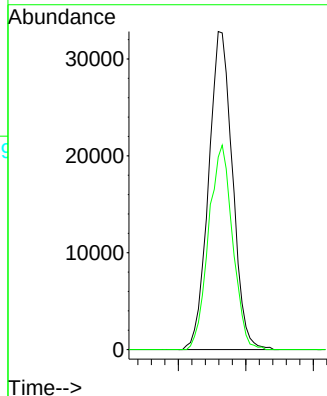
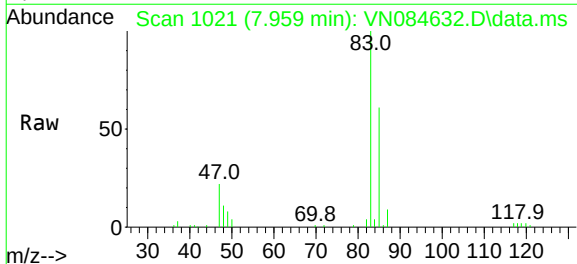
RT: 7.959 min Scan# 1021

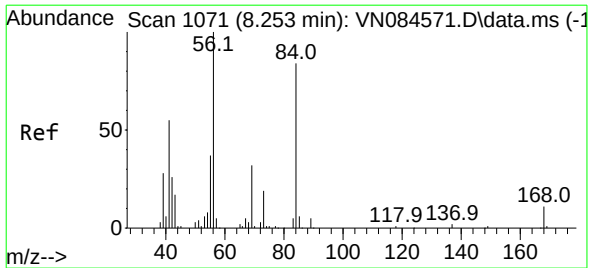
Delta R.T. -0.006 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Tgt Ion:	83	Resp:	80798
Ion	Ratio	Lower	Upper
83	100		
85	60.5	51.0	76.4





#31

Cyclohexane

Concen: 19.515 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion: 56 Resp: 69908

Ion Ratio Lower Upper

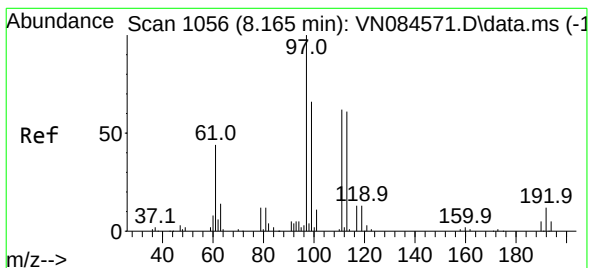
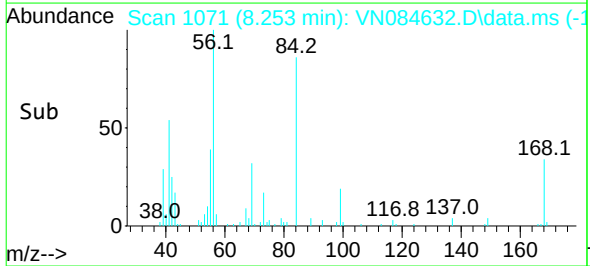
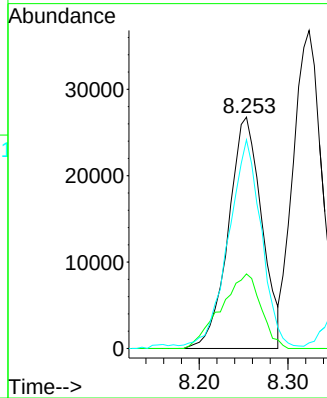
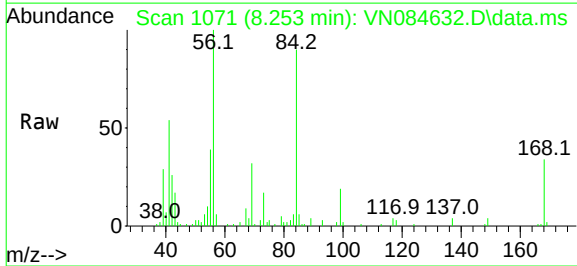
56 100

69 32.2 23.8 35.6

84 88.9 68.8 103.2

Manual Integrations

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Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#32

1,1,1-Trichloroethane

Concen: 20.072 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

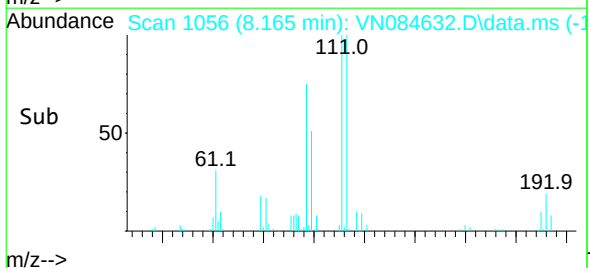
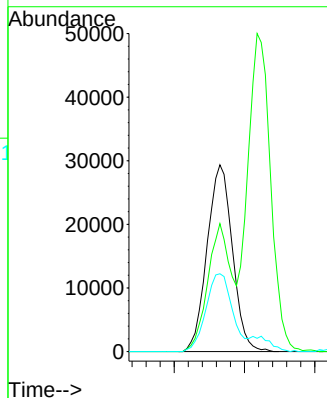
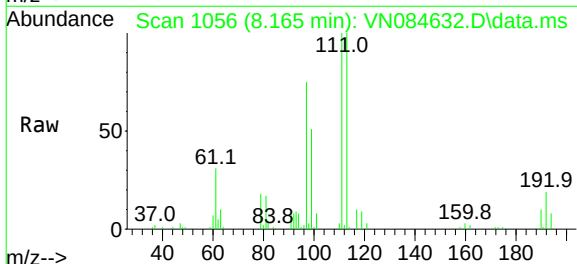
Tgt Ion: 97 Resp: 73597

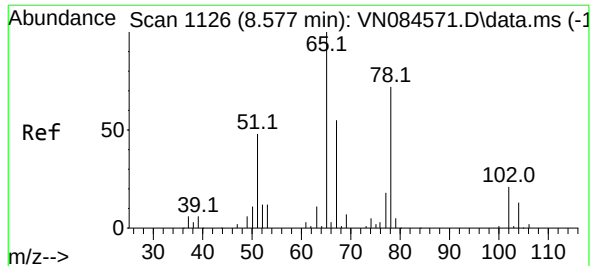
Ion Ratio Lower Upper

97 100

99 63.4 51.2 76.8

61 44.0 37.5 56.3





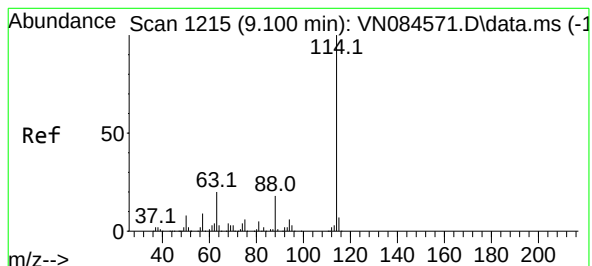
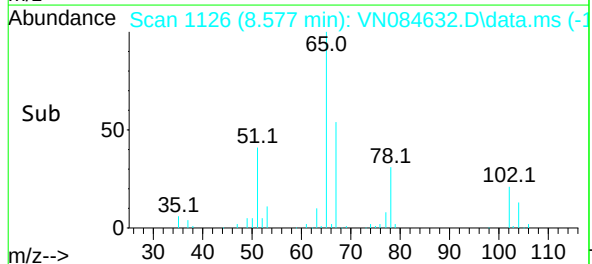
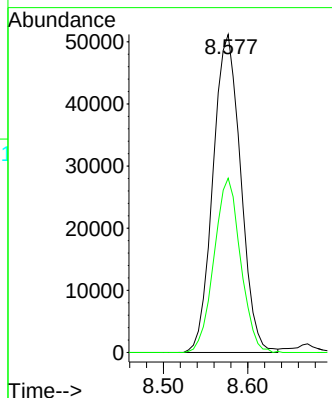
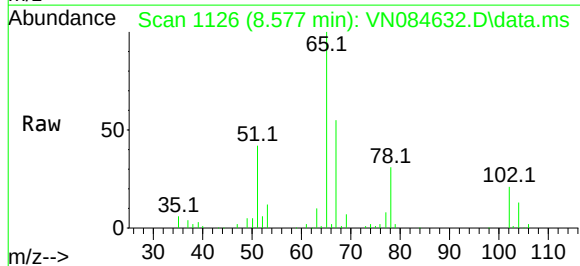
#33
1,2-Dichloroethane-d4
Concen: 44.978 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBSD01

Tgt Ion: 65 Resp: 116705
Ion Ratio Lower Upper
65 100
67 52.4 0.0 102.0

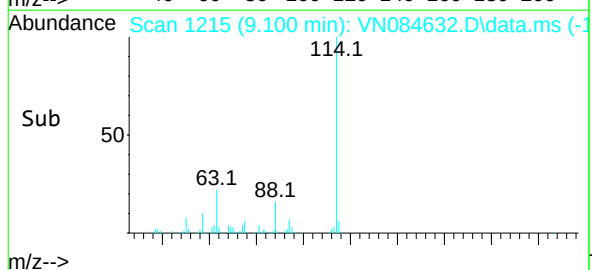
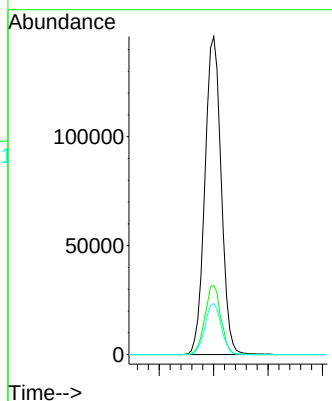
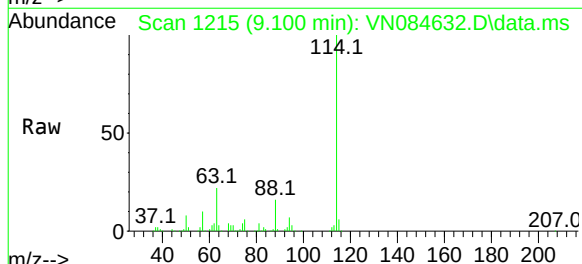
Manual Integrations
APPROVED

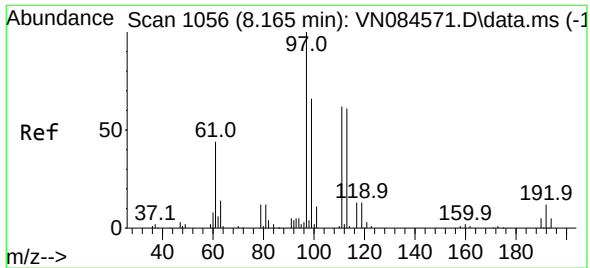
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

Tgt Ion:114 Resp: 303928
Ion Ratio Lower Upper
114 100
63 21.7 0.0 43.8
88 16.0 0.0 31.6





#35

Dibromofluoromethane

Concen: 46.460 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion:113 Resp: 95578

Ion Ratio Lower Upper

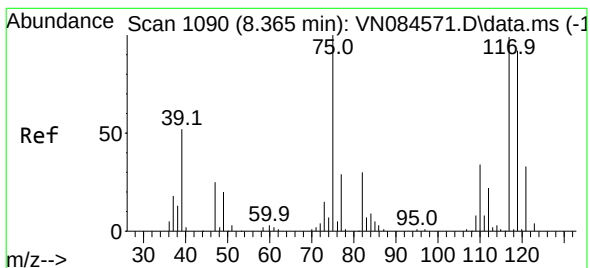
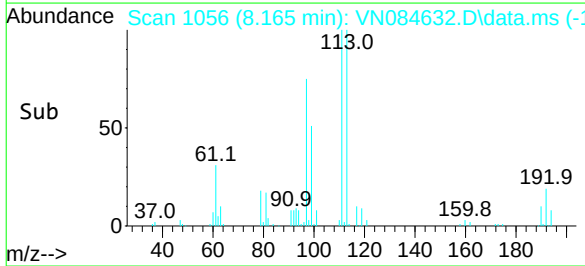
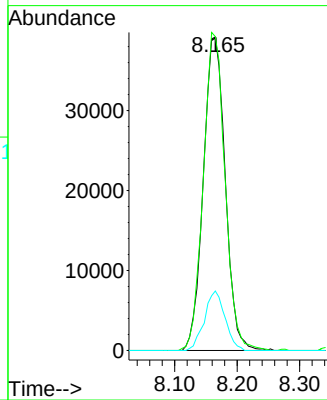
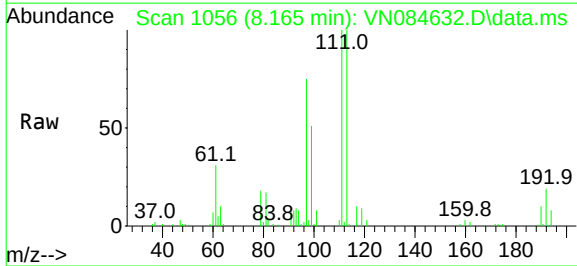
113 100

111 100.6 83.3 124.9

192 17.8 13.5 20.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#36

1,1-Dichloropropene

Concen: 19.036 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.006 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

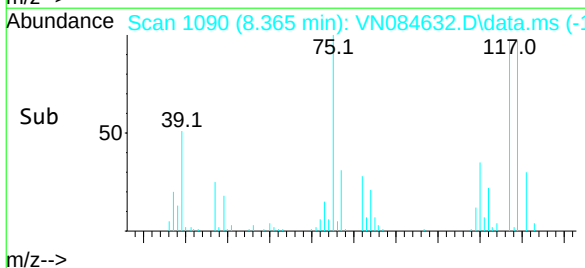
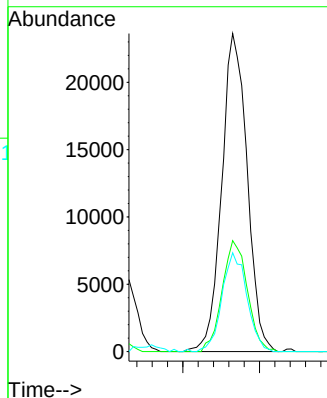
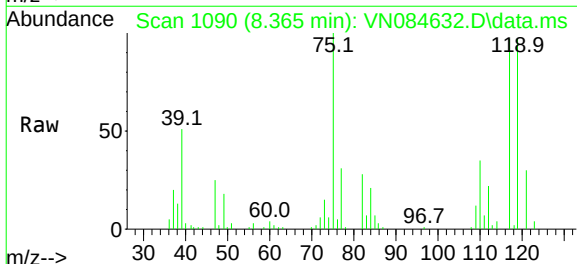
Tgt Ion: 75 Resp: 54311

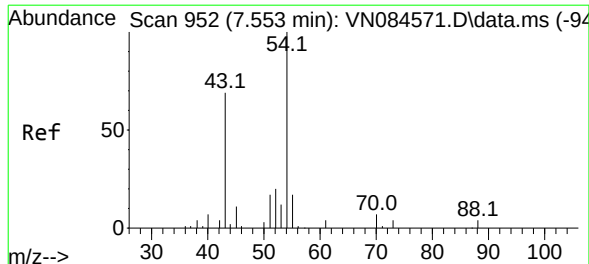
Ion Ratio Lower Upper

75 100

110 34.6 16.9 50.7

77 30.5 24.7 37.1





#37

Ethyl Acetate

Concen: 21.202 ug/l

RT: 7.559 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

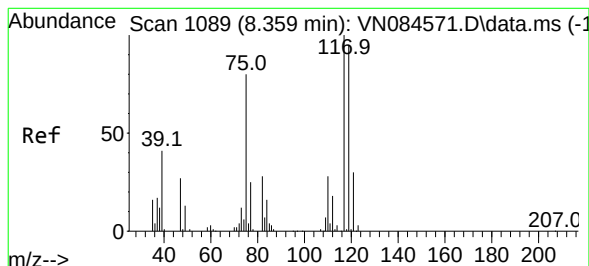
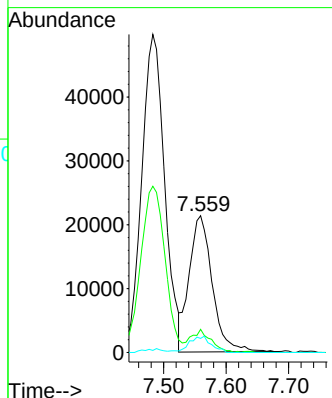
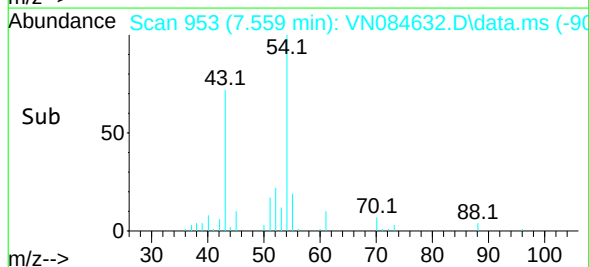
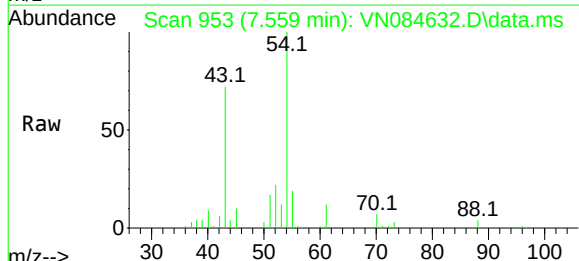
ClientSampleId :

VN1101WBSD01

Tgt Ion:	43	Resp:	54883
Ion	Ratio	Lower	Upper
43	100		
61	15.0	10.7	16.1
70	11.1	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#38

Carbon Tetrachloride

Concen: 20.068 ug/l

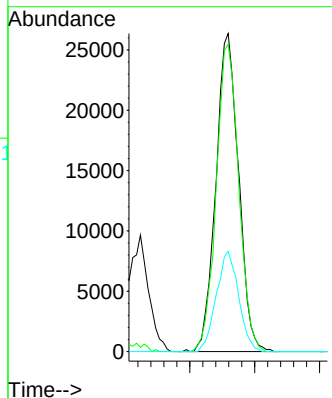
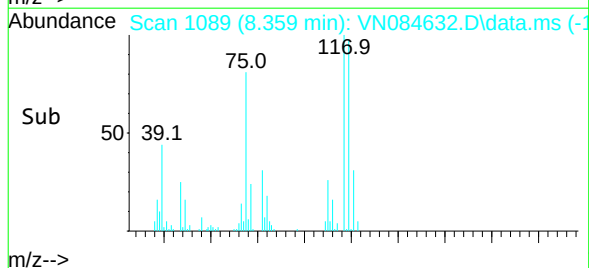
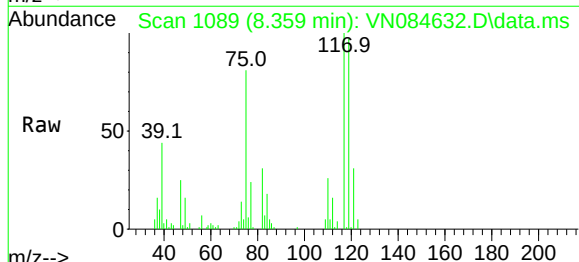
RT: 8.359 min Scan# 1089

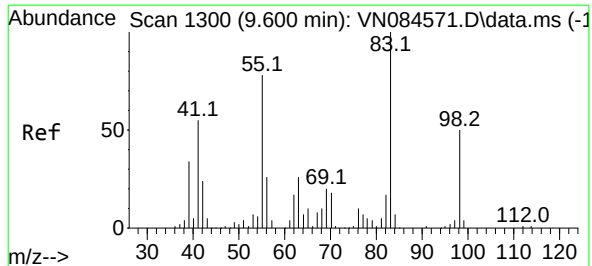
Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

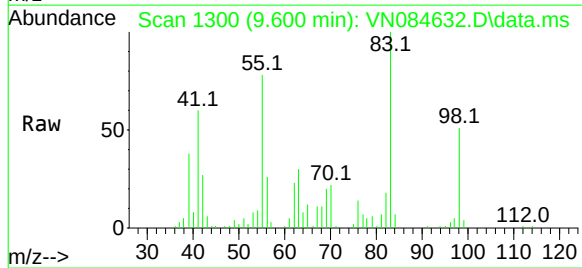
Tgt Ion:	117	Resp:	63997
Ion	Ratio	Lower	Upper
117	100		
119	96.6	78.7	118.1
121	31.5	24.4	36.6





#39
Methylcyclohexane
Concen: 19.604 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. 0.000 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

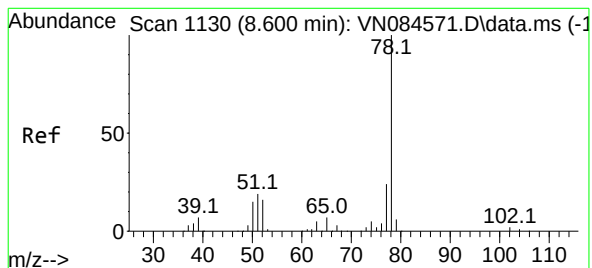
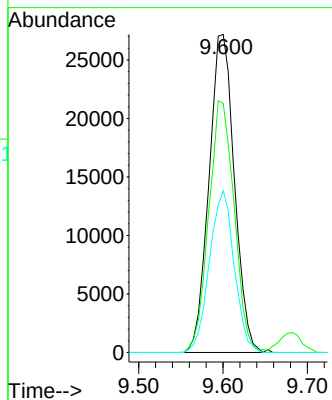
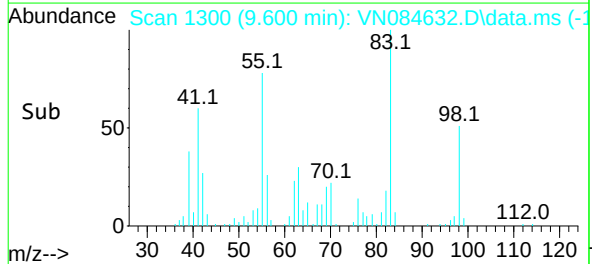
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBSD01



Tgt Ion: 83 Resp: 56902
Ion Ratio Lower Upper
83 100
55 78.3 62.8 94.2
98 50.9 38.8 58.2

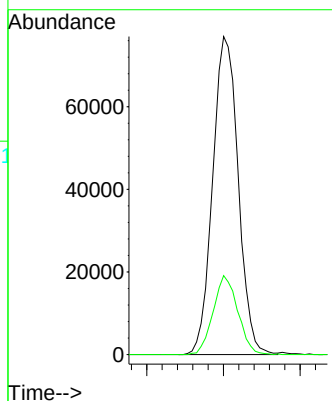
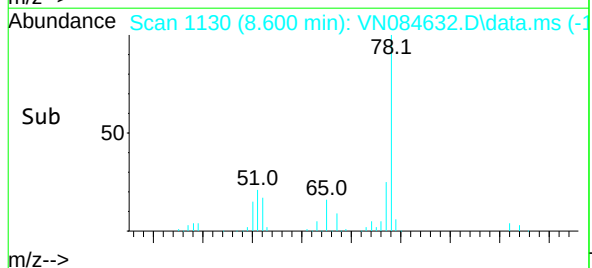
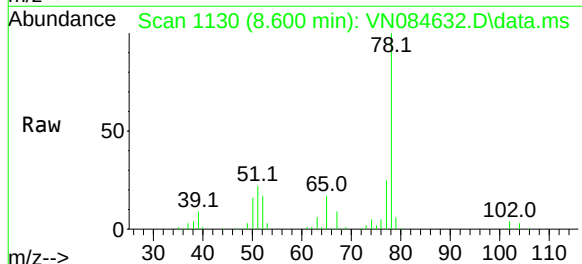
Manual Integrations
APPROVED

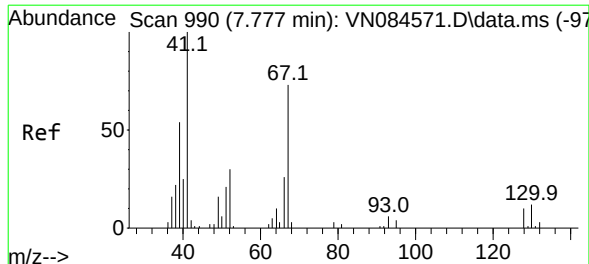
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#40
Benzene
Concen: 19.433 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

Tgt Ion: 78 Resp: 178059
Ion Ratio Lower Upper
78 100
77 24.8 19.1 28.7





#41

Methacrylonitrile

Concen: 21.533 ug/l

RT: 7.777 min Scan# 99

Delta R.T. -0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion: 41 Resp: 29975

Ion Ratio Lower Upper

41 100

39 52.3 43.3 64.9

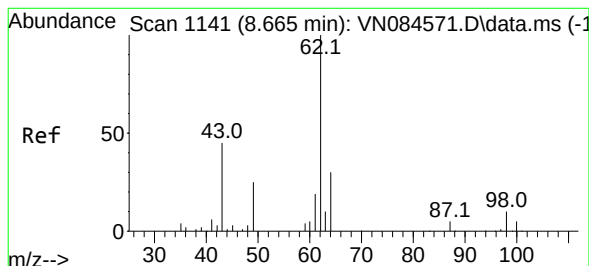
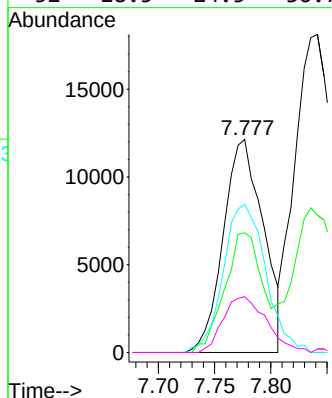
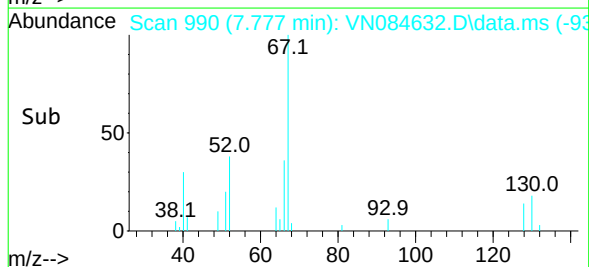
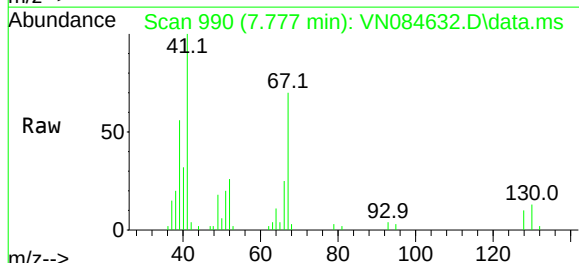
67 73.8 56.1 84.1

52 28.5 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
 Supervised By :Semsettin Yesilyurt 11/04/2024



#42

1,2-Dichloroethane

Concen: 20.358 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VN084632.D

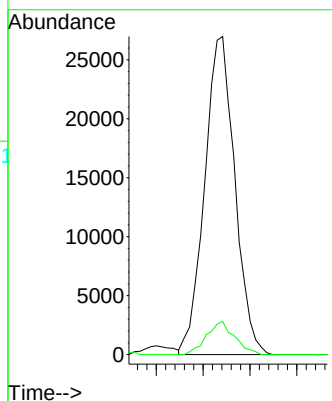
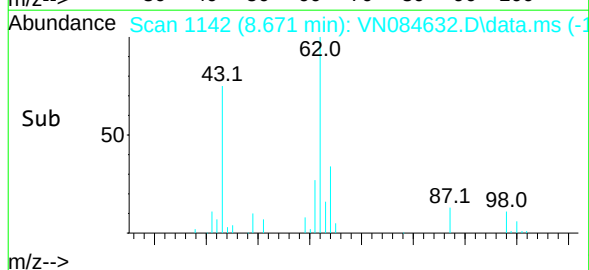
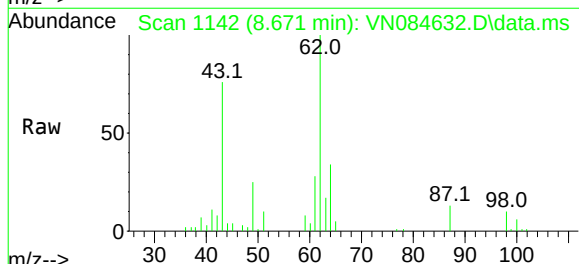
Acq: 01 Nov 2024 12:32

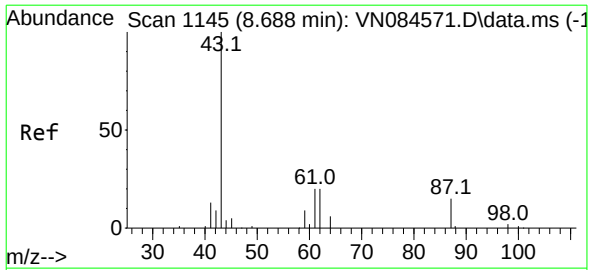
Tgt Ion: 62 Resp: 60410

Ion Ratio Lower Upper

62 100

98 9.7 0.0 18.2





#43

Isopropyl Acetate

Concen: 19.145 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

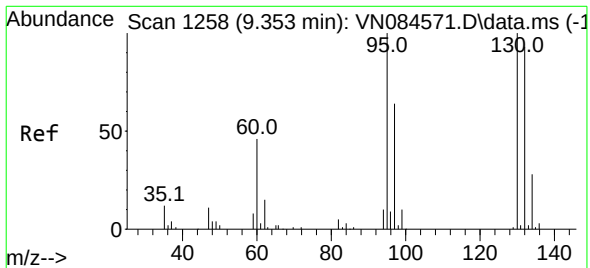
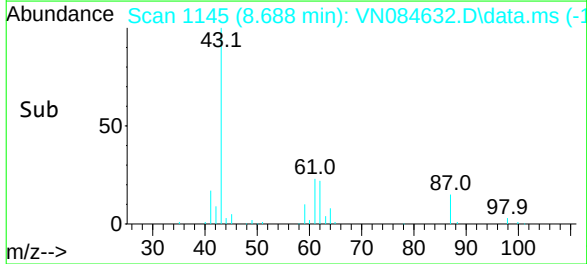
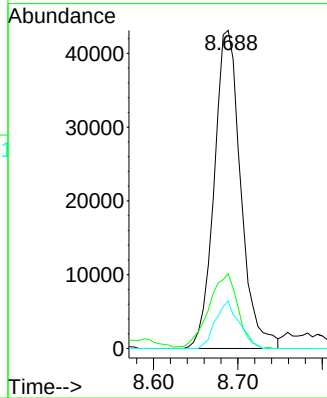
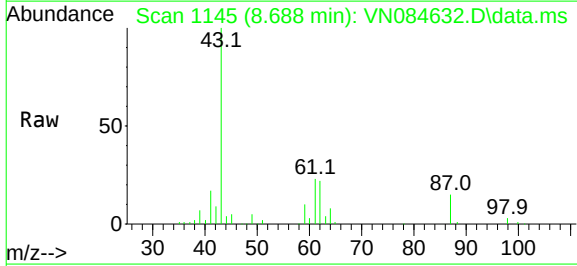
ClientSampleId :

VN1101WBSD01

Tgt Ion:	43	Resp:	94407
Ion	Ratio	Lower	Upper
43	100		
61	26.0	20.4	30.6
87	13.2	10.3	15.5

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#44

Trichloroethene

Concen: 19.188 ug/l

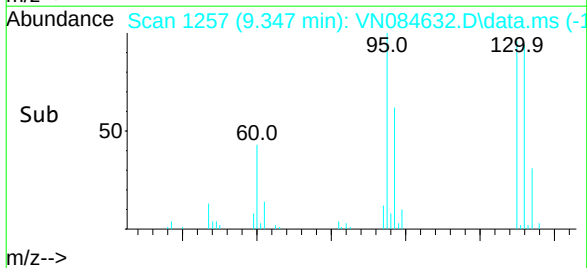
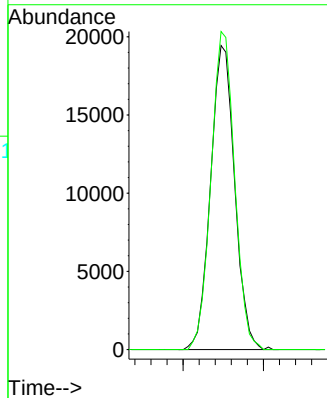
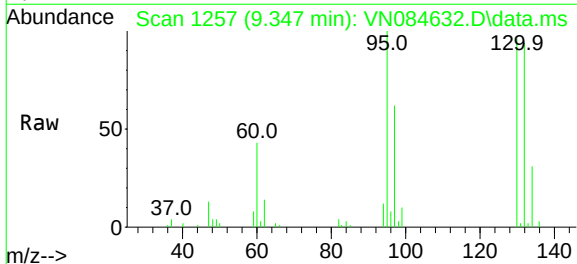
RT: 9.347 min Scan# 1257

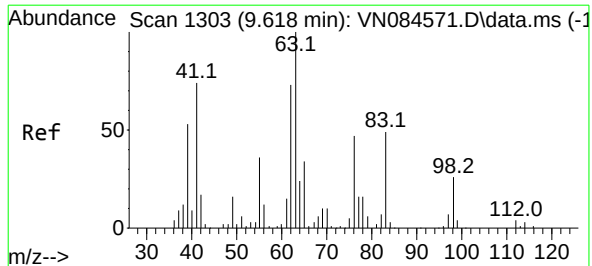
Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

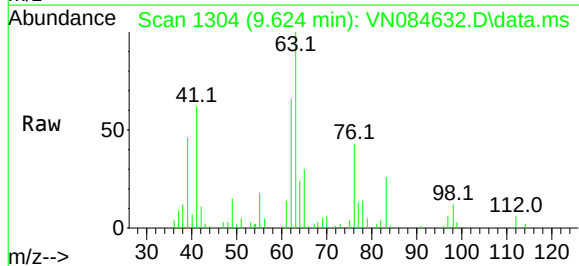
Tgt Ion:	130	Resp:	40547
Ion	Ratio	Lower	Upper
130	100		
95	104.6	0.0	203.0





#45
1,2-Dichloropropane
Concen: 20.073 ug/l
RT: 9.624 min Scan# 1304
Delta R.T. 0.006 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

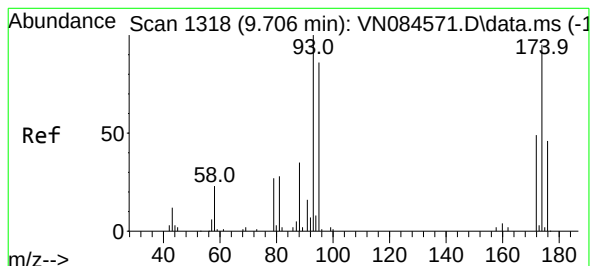
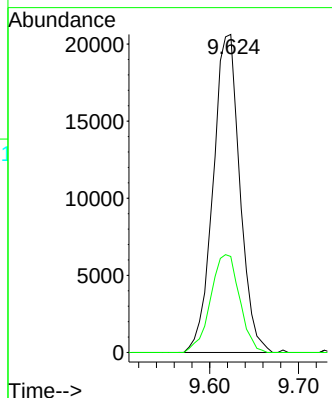
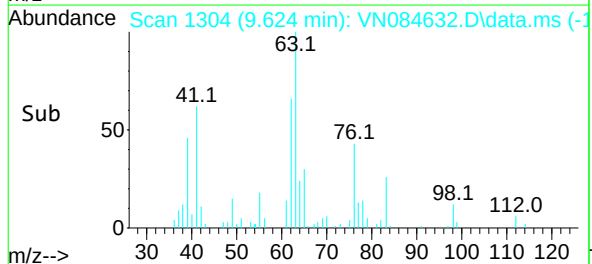
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBSD01



Tgt Ion: 63 Resp: 43144
Ion Ratio Lower Upper
63 100
65 30.2 24.6 37.0

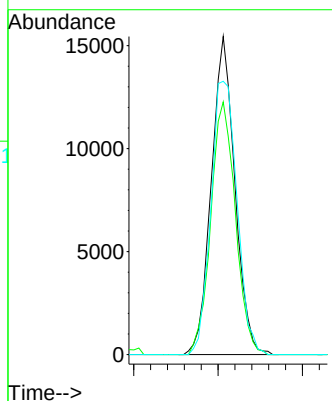
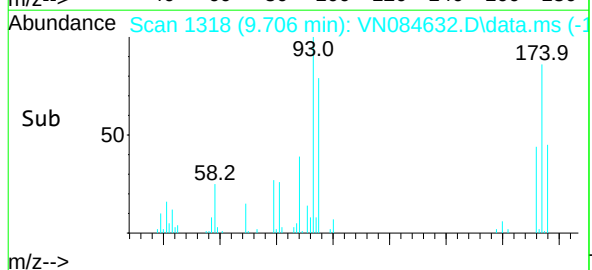
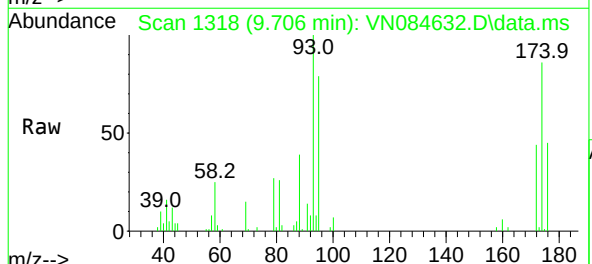
Manual Integrations
APPROVED

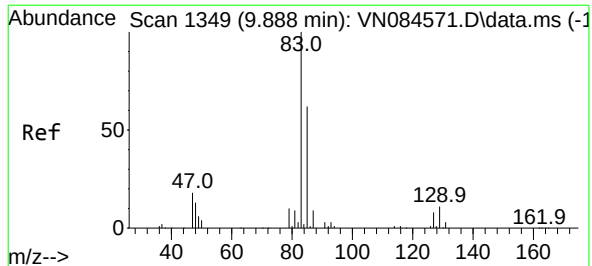
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#46
Dibromomethane
Concen: 19.750 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

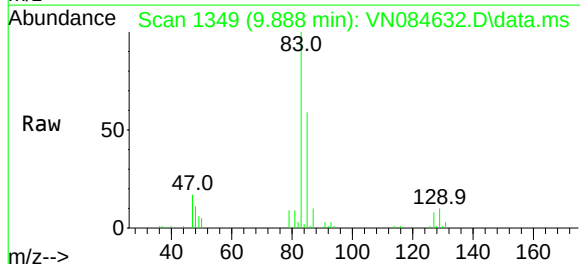
Tgt Ion: 93 Resp: 29954
Ion Ratio Lower Upper
93 100
95 83.2 65.0 97.4
174 95.5 71.8 107.8





#47
Bromodichloromethane
Concen: 20.125 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. 0.000 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

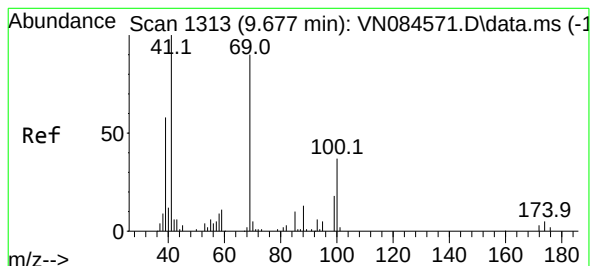
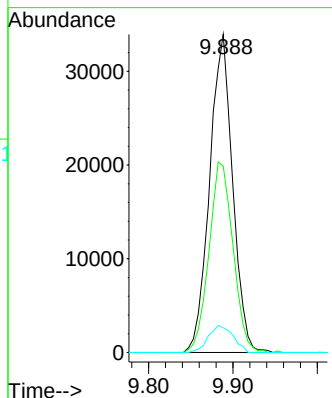
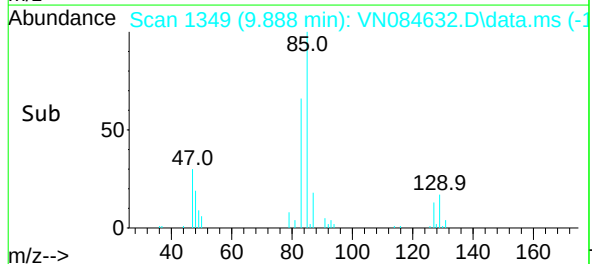
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBSD01



Tgt Ion: 83 Resp: 64340
Ion Ratio Lower Upper
83 100
85 58.6 51.5 77.3
127 7.8 5.7 8.5

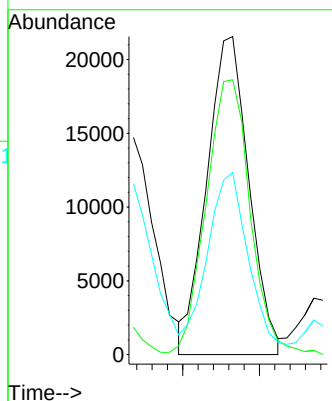
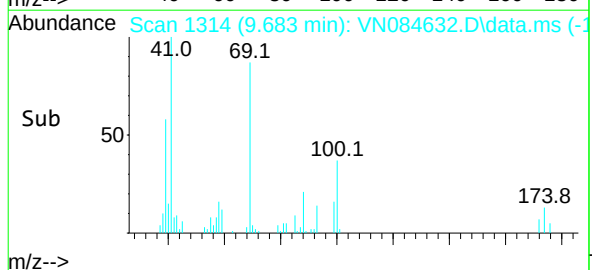
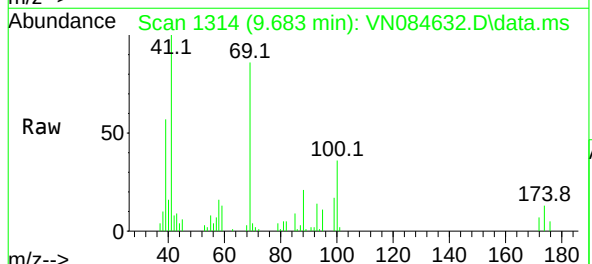
Manual Integrations
APPROVED

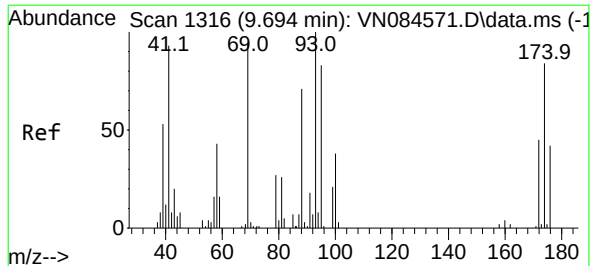
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#48
Methyl methacrylate
Concen: 20.408 ug/l
RT: 9.683 min Scan# 1314
Delta R.T. 0.006 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

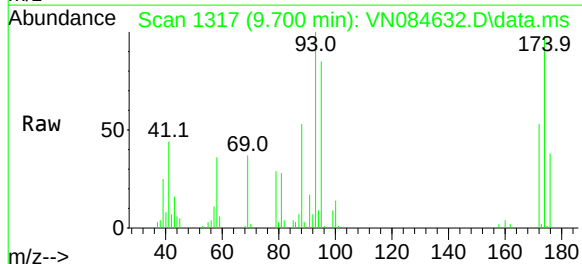
Tgt Ion: 41 Resp: 41114
Ion Ratio Lower Upper
41 100
69 90.5 67.1 100.7
39 57.1 45.8 68.6





#49
1,4-Dioxane
Concen: 437.525 ug/l
RT: 9.700 min Scan# 1316
Delta R.T. 0.006 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

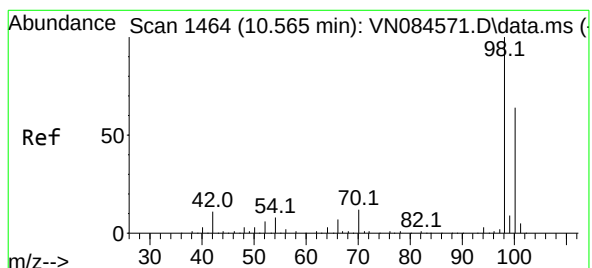
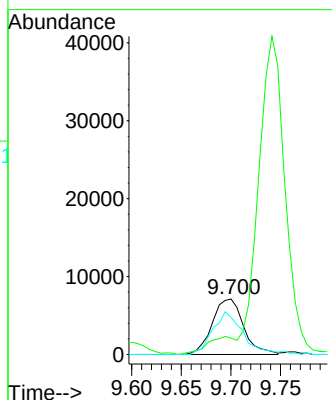
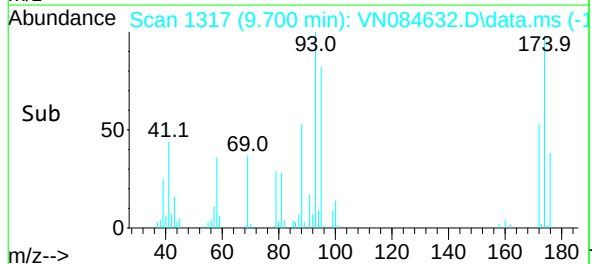
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBSD01



Tgt Ion: 88 Resp: 15620
Ion Ratio Lower Upper
88 100
43 30.1 25.3 37.9
58 75.8 56.4 84.6

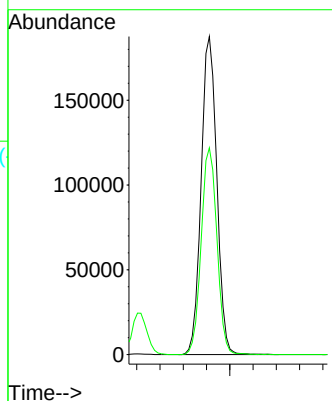
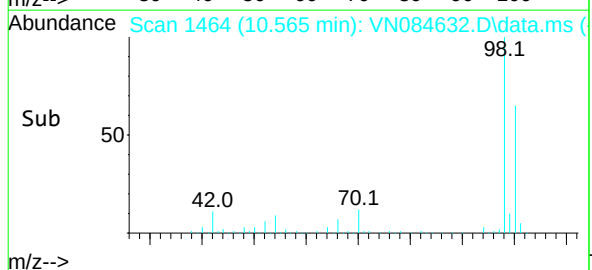
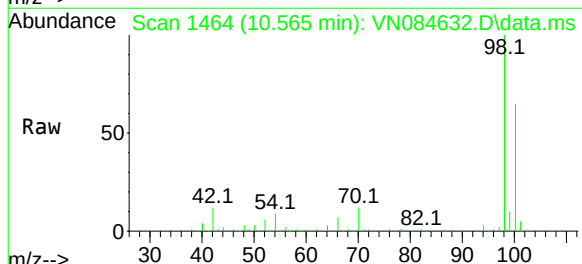
Manual Integrations
APPROVED

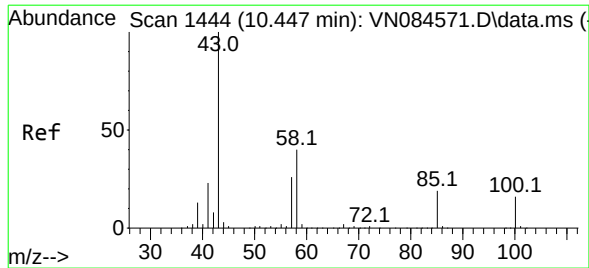
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#50
Toluene-d8
Concen: 46.293 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

Tgt Ion: 98 Resp: 350812
Ion Ratio Lower Upper
98 100
100 65.3 52.7 79.1





#51

4-Methyl-2-Pentanone

Concen: 109.342 ug/l

RT: 10.447 min Scan# 14

Delta R.T. 0.006 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion: 43 Resp: 269825

Ion Ratio Lower Upper

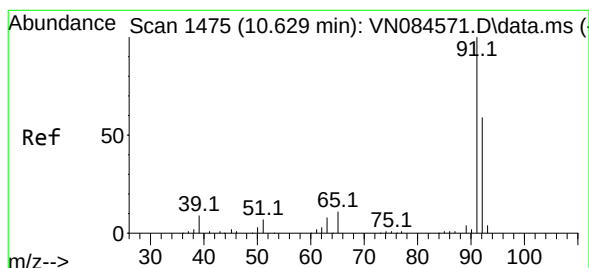
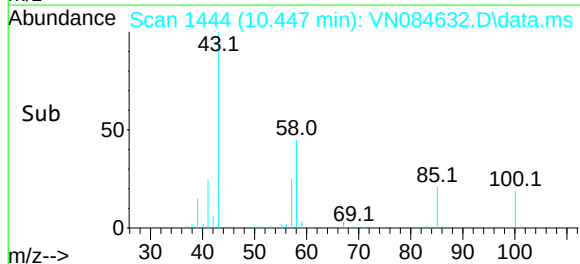
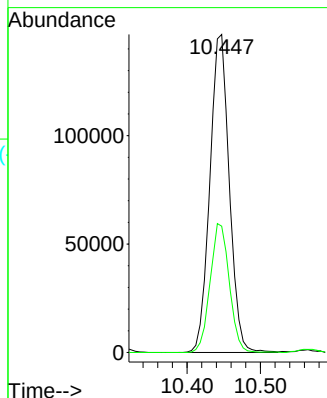
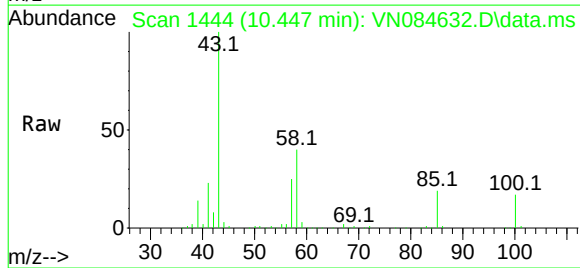
43 100

58 39.9 31.6 47.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#52

Toluene

Concen: 20.840 ug/l

RT: 10.630 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VN084632.D

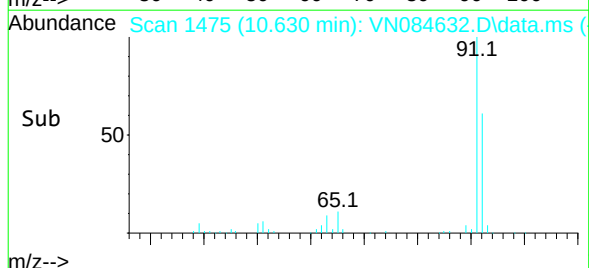
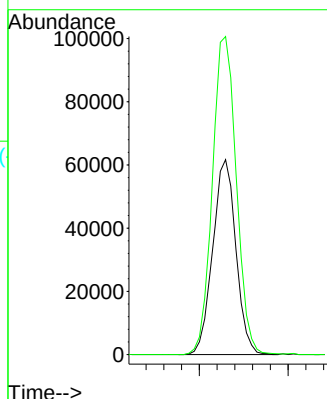
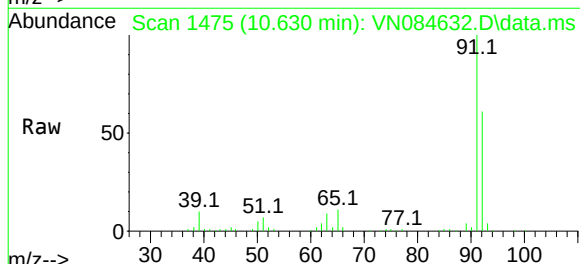
Acq: 01 Nov 2024 12:32

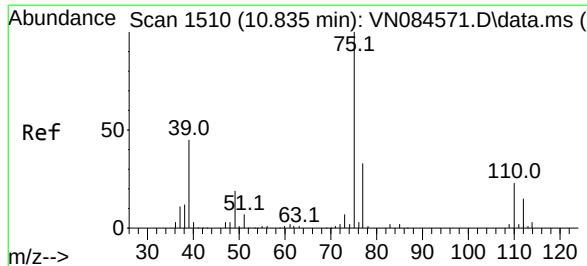
Tgt Ion: 92 Resp: 111675

Ion Ratio Lower Upper

92 100

91 168.7 137.3 205.9





#53

t-1,3-Dichloropropene

Concen: 19.323 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion: 75 Resp: 63947

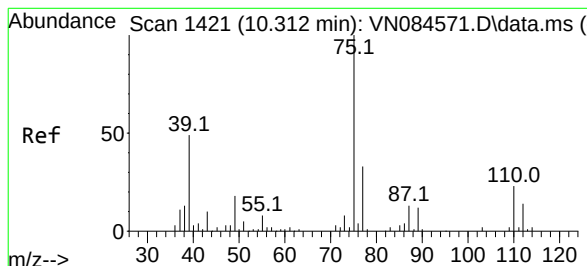
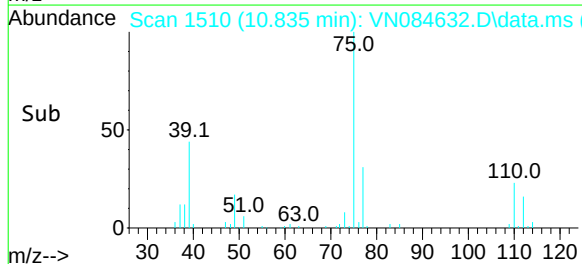
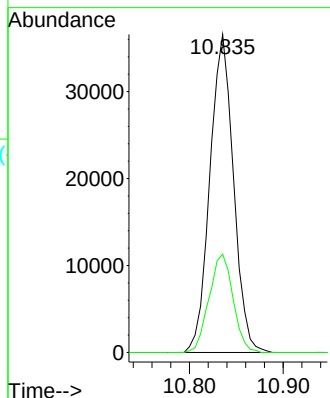
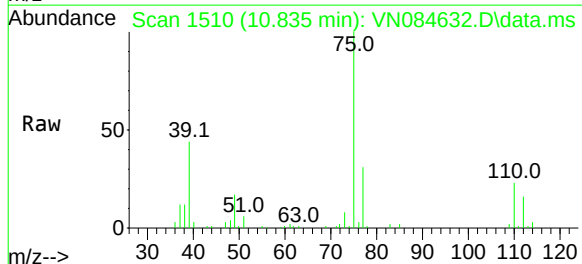
Ion Ratio Lower Upper

75 100

77 30.9 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#54

cis-1,3-Dichloropropene

Concen: 19.617 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

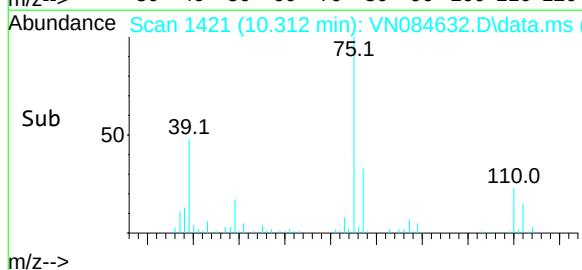
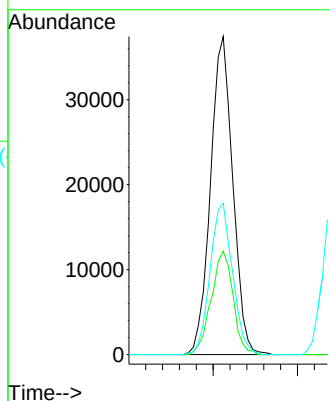
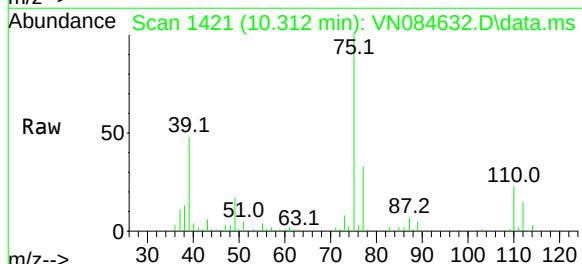
Tgt Ion: 75 Resp: 68709

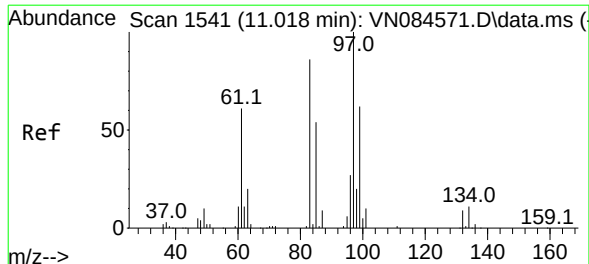
Ion Ratio Lower Upper

75 100

77 32.5 24.2 36.2

39 47.6 38.7 58.1





#55

1,1,2-Trichloroethane

Concen: 21.081 ug/l

RT: 11.012 min Scan# 1541

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion: 97 Resp: 42554

Ion Ratio Lower Upper

97 100

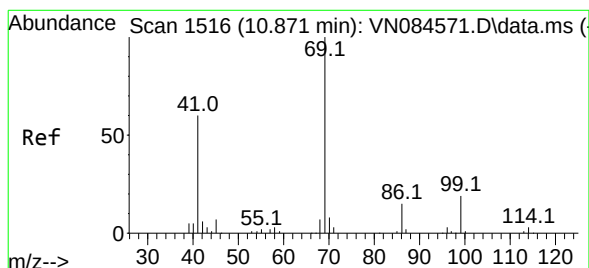
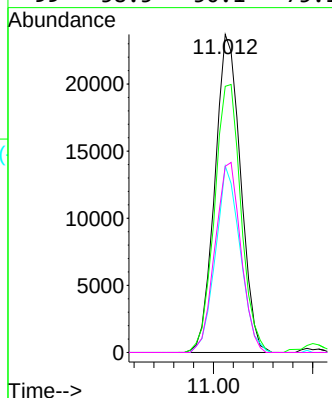
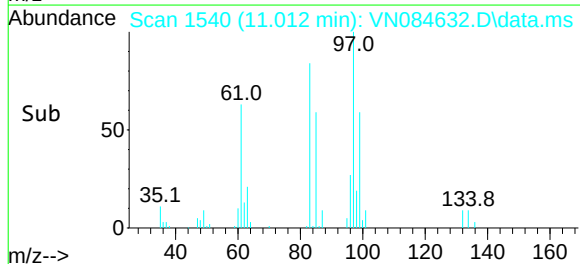
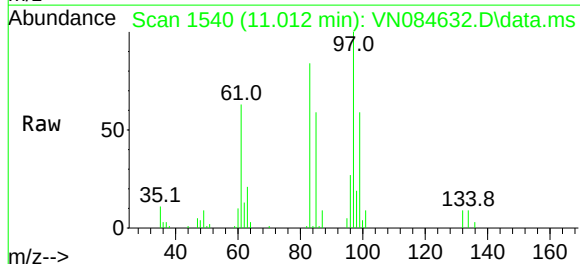
83 83.7 71.0 106.4

85 58.6 41.7 62.5

99 58.5 50.1 75.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#56

Ethyl methacrylate

Concen: 21.283 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

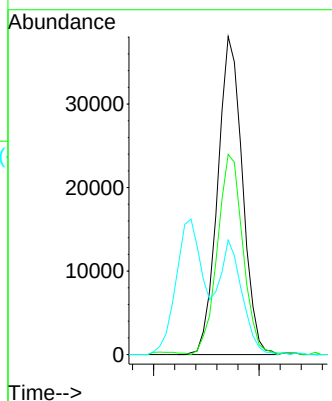
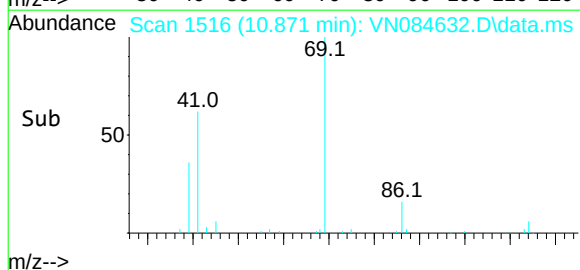
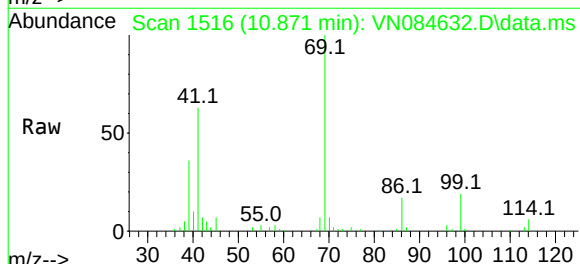
Tgt Ion: 69 Resp: 62143

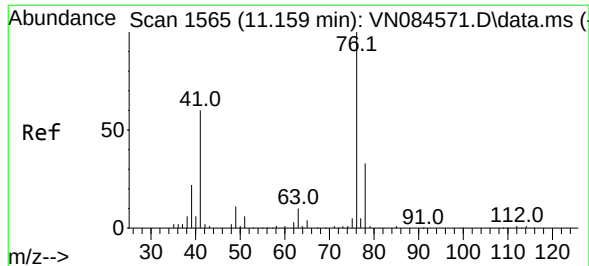
Ion Ratio Lower Upper

69 100

41 65.2 53.3 79.9

39 33.9 28.8 43.2





#57

1,3-Dichloropropane

Concen: 20.283 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion: 76 Resp: 70269

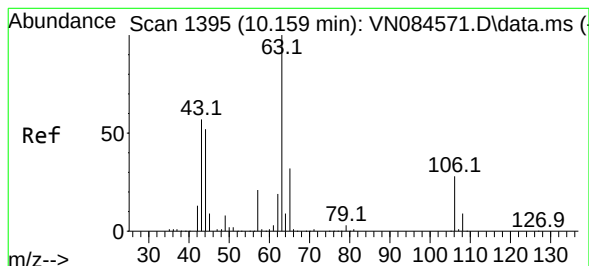
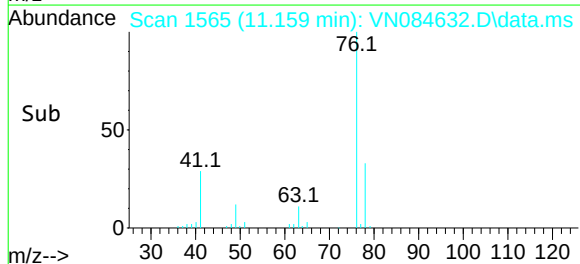
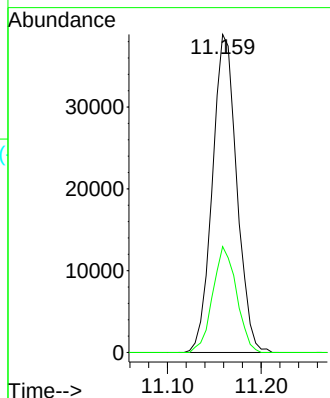
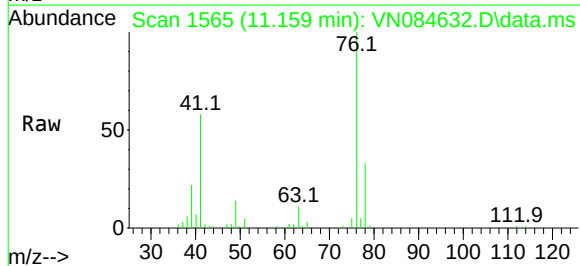
Ion Ratio Lower Upper

76 100

78 32.6 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#58

2-Chloroethyl Vinyl ether

Concen: 100.367 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN084632.D

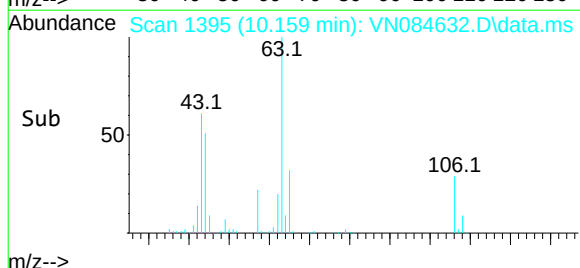
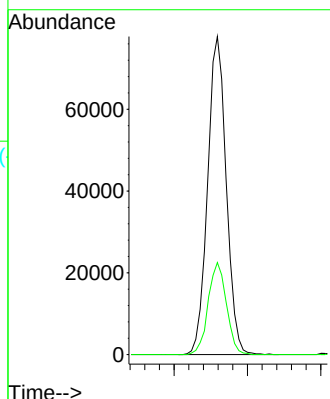
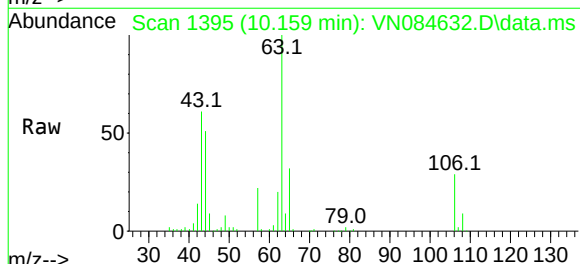
Acq: 01 Nov 2024 12:32

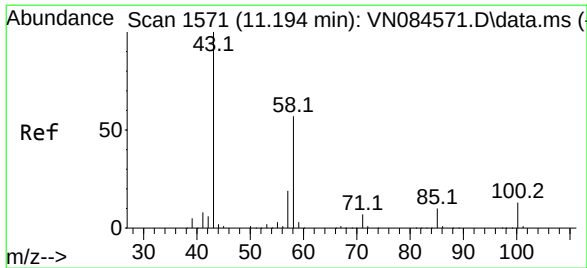
Tgt Ion: 63 Resp: 137129

Ion Ratio Lower Upper

63 100

106 28.3 21.8 32.6





#59

2-Hexanone

Concen: 108.454 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion: 43 Resp: 194808

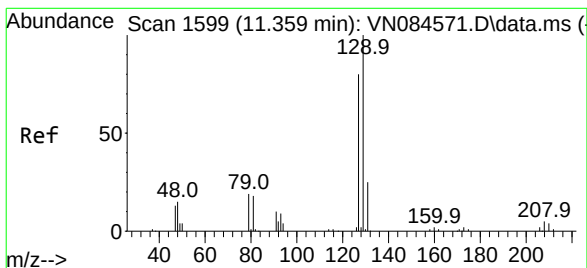
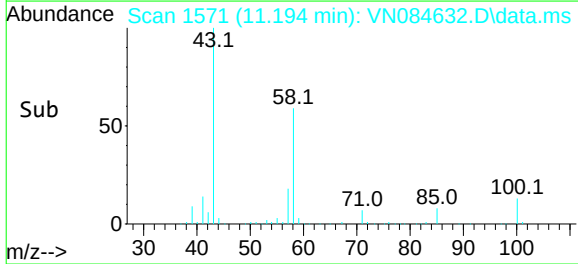
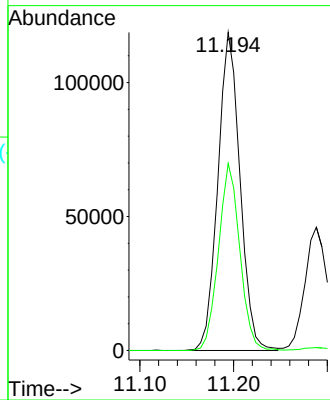
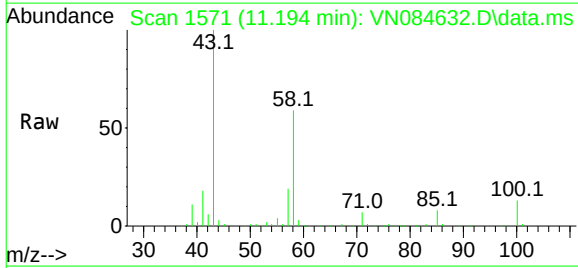
Ion Ratio Lower Upper

43 100

58 56.7 27.3 81.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#60

Dibromochloromethane

Concen: 21.072 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN084632.D

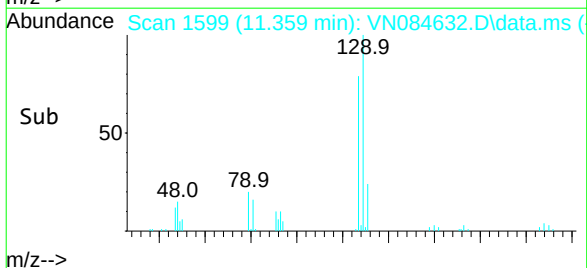
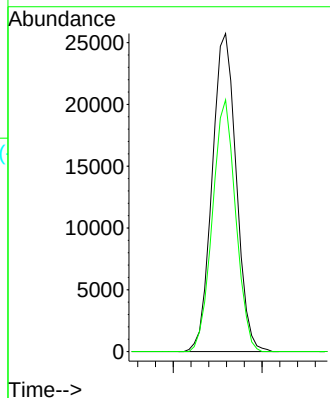
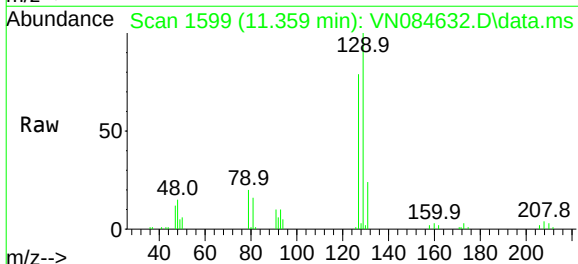
Acq: 01 Nov 2024 12:32

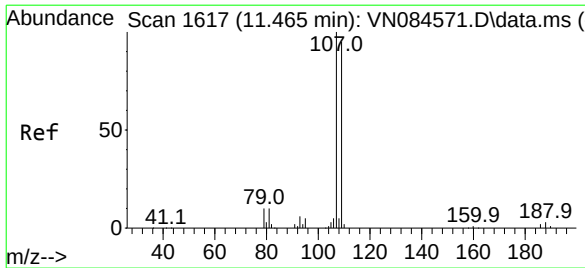
Tgt Ion:129 Resp: 48478

Ion Ratio Lower Upper

129 100

127 76.2 38.3 114.9





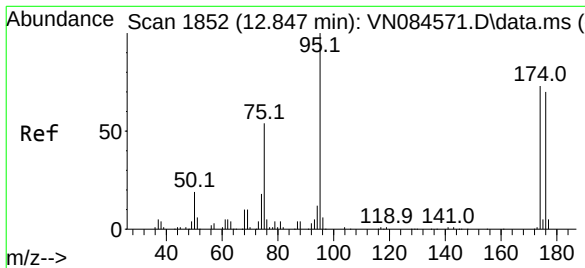
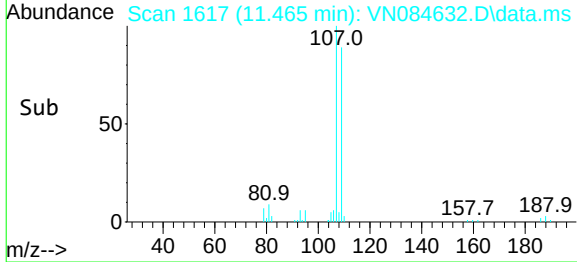
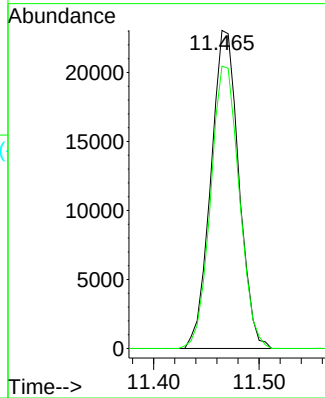
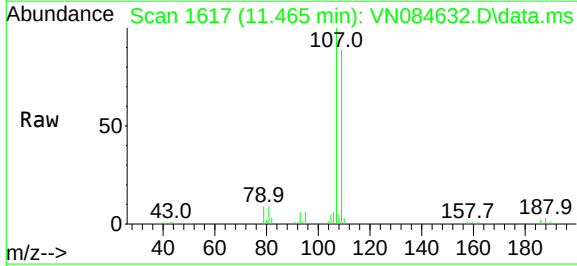
#61
1,2-Dibromoethane
Concen: 20.554 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBSD01

Tgt Ion: 107 Resp: 42488
Ion Ratio Lower Upper
107 100
109 90.7 75.4 113.0

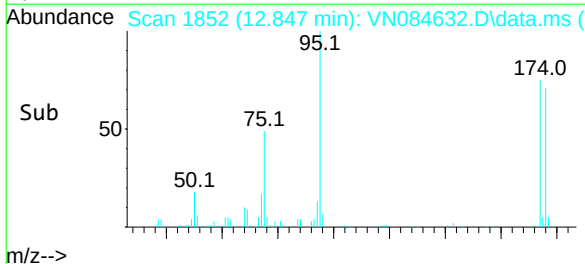
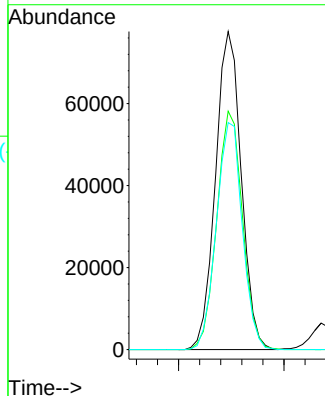
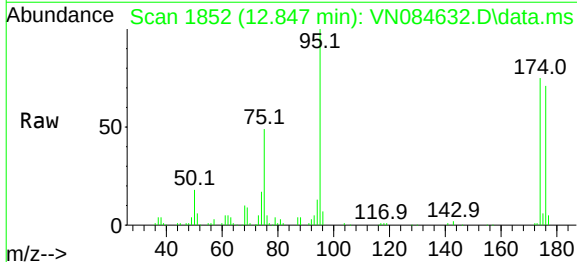
Manual Integrations
APPROVED

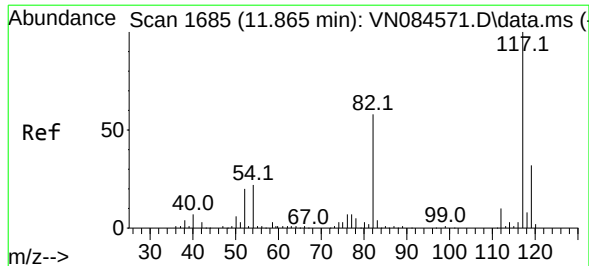
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#62
4-Bromofluorobenzene
Concen: 46.526 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

Tgt Ion: 95 Resp: 131770
Ion Ratio Lower Upper
95 100
174 74.8 0.0 145.2
176 71.9 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min MSVOA_N

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion:117 Resp: 276373

Ion Ratio Lower Upper

117 100

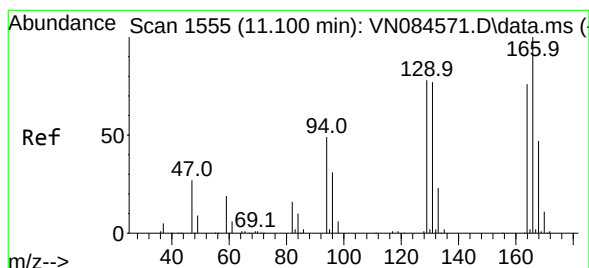
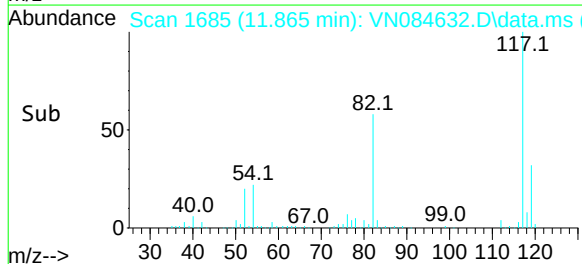
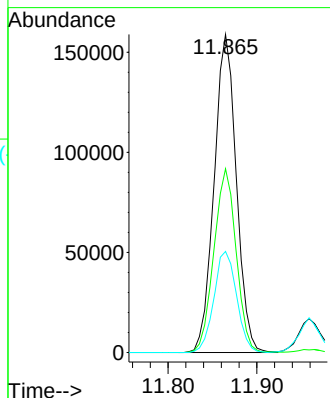
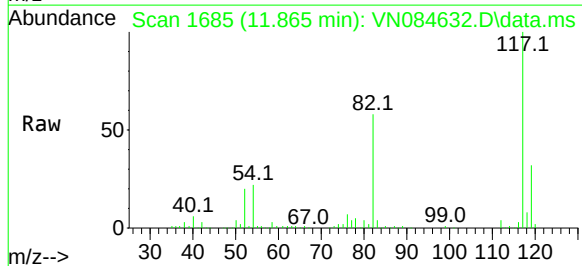
82 57.8 47.2 70.8

119 31.8 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#64

Tetrachloroethene

Concen: 19.779 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Tgt Ion:164 Resp: 36361

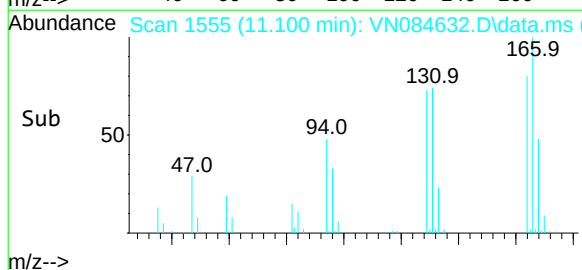
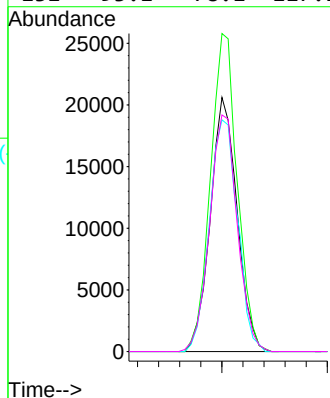
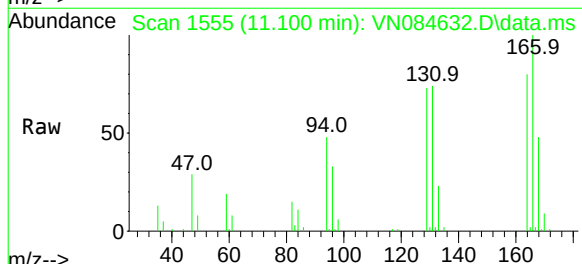
Ion Ratio Lower Upper

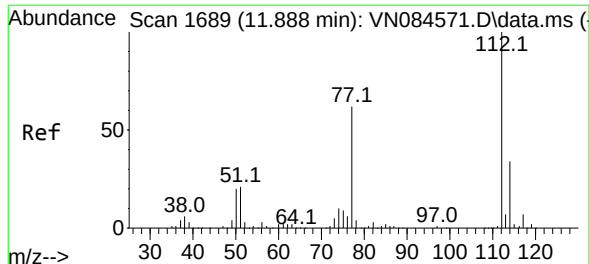
164 100

166 125.2 101.0 151.4

129 91.2 80.8 121.2

131 93.1 78.1 117.1





#65

Chlorobenzene

Concen: 18.870 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion:112 Resp: 116675

Ion Ratio Lower Upper

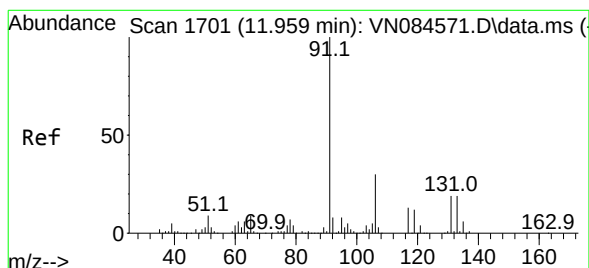
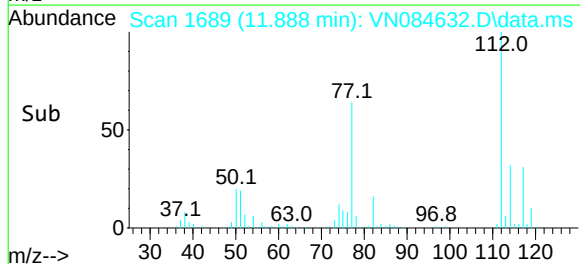
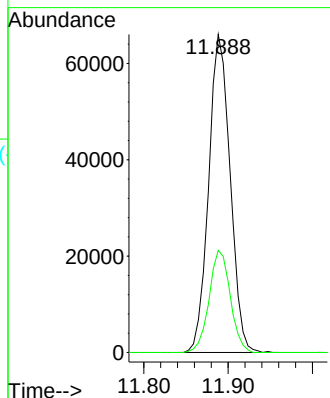
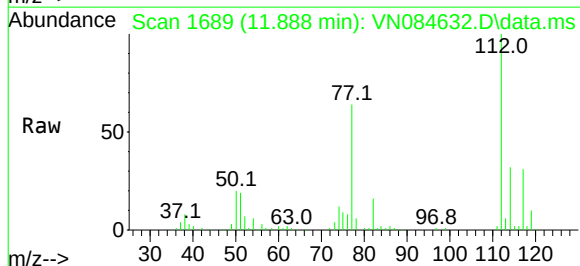
112 100

114 32.1 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
 Supervised By :Semsettin Yesilyurt 11/04/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 19.982 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

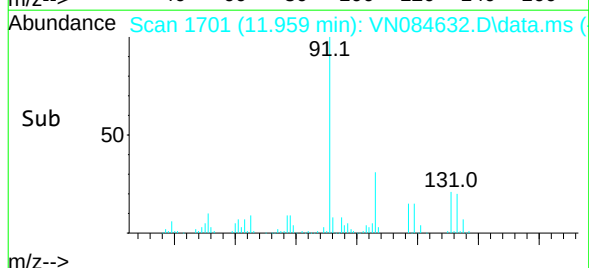
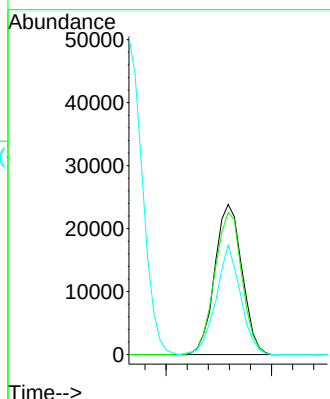
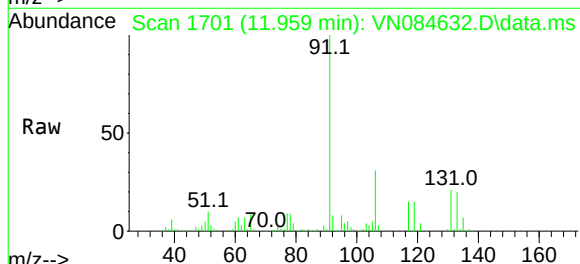
Tgt Ion:131 Resp: 42973

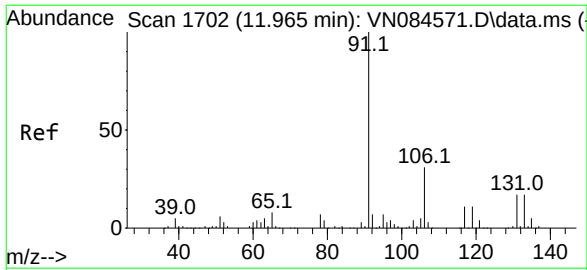
Ion Ratio Lower Upper

131 100

133 94.2 47.9 143.7

119 65.5 32.8 98.3





#67

Ethyl Benzene

Concen: 19.420 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.006 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion: 91 Resp: 200430

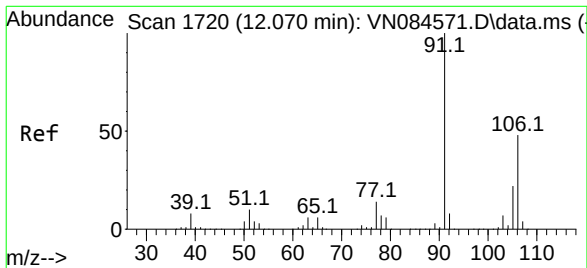
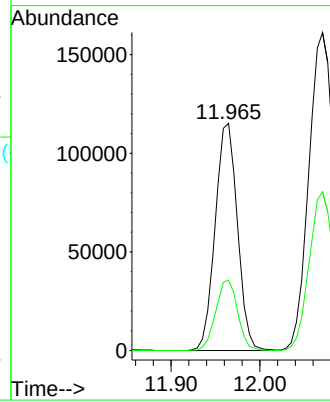
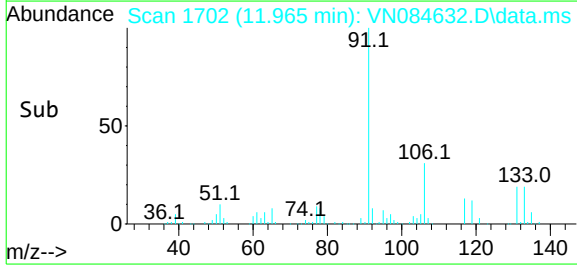
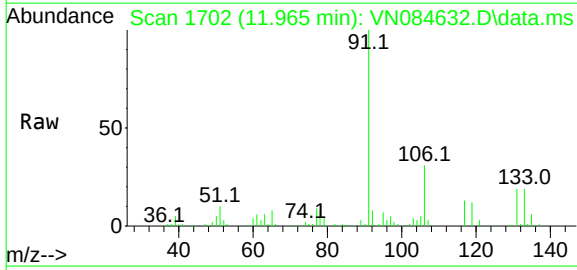
Ion Ratio Lower Upper

91 100

106 31.0 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#68

m/p-Xylenes

Concen: 39.784 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN084632.D

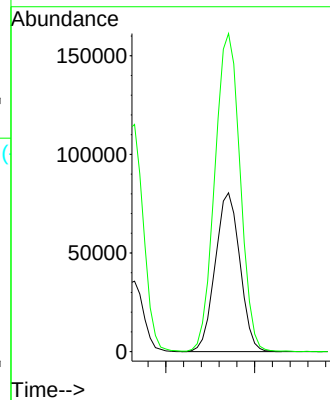
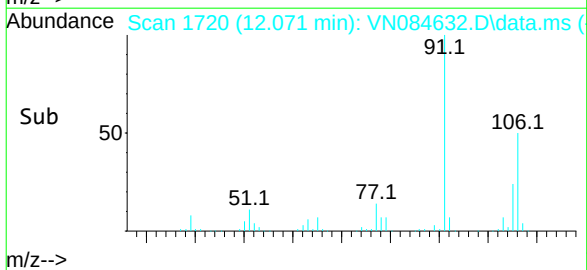
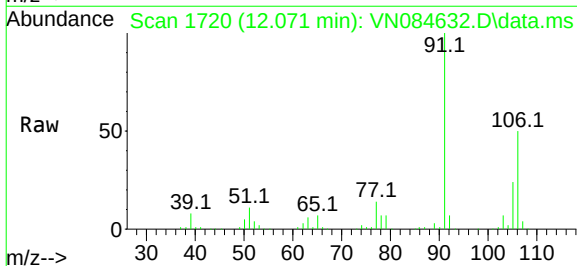
Acq: 01 Nov 2024 12:32

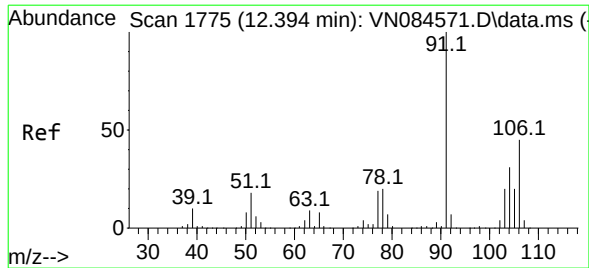
Tgt Ion:106 Resp: 155447

Ion Ratio Lower Upper

106 100

91 205.6 167.1 250.7





#69

o-Xylene

Concen: 20.108 ug/l

RT: 12.400 min Scan# 1775

Delta R.T. 0.006 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion:106 Resp: 73499

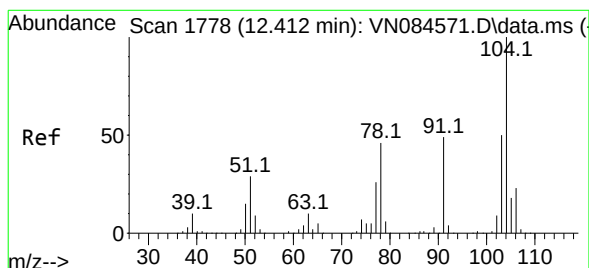
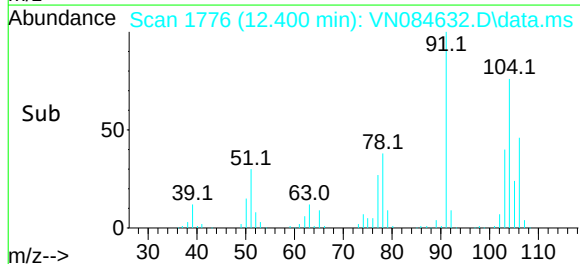
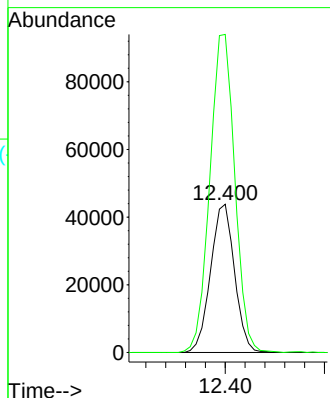
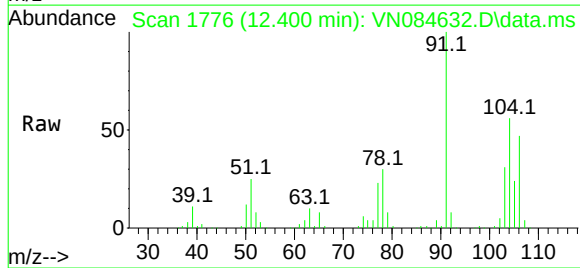
Ion Ratio Lower Upper

106 100

91 223.7 110.2 330.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#70

Styrene

Concen: 20.153 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

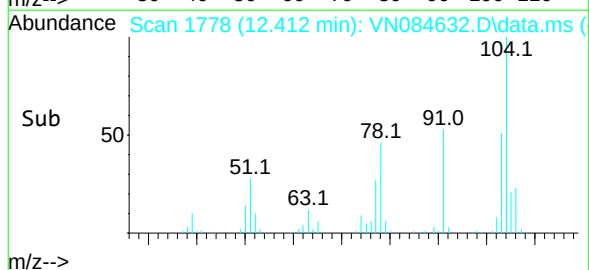
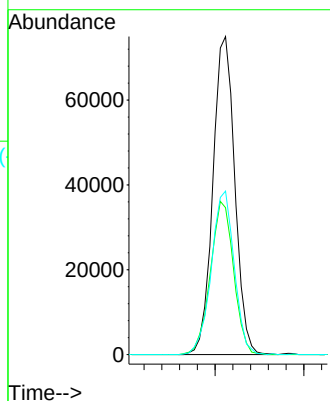
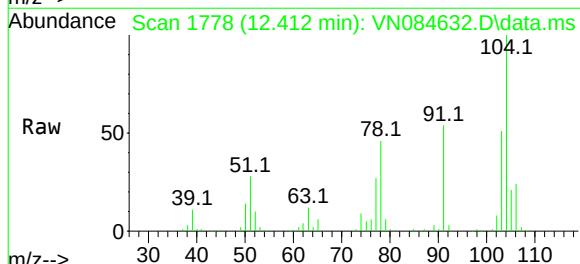
Tgt Ion:104 Resp: 128498

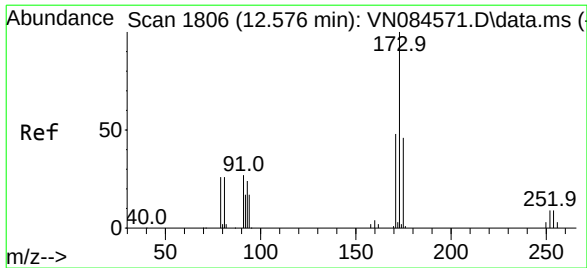
Ion Ratio Lower Upper

104 100

78 51.1 42.7 64.1

103 53.8 43.6 65.4





#71

Bromoform

Concen: 19.505 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion:173 Resp: 31565

Ion Ratio Lower Upper

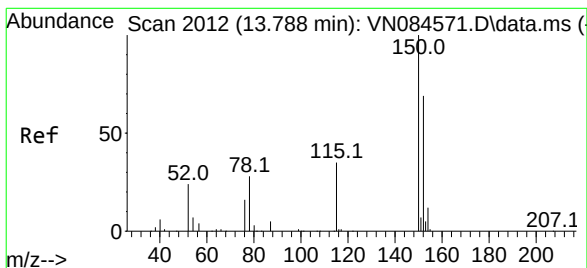
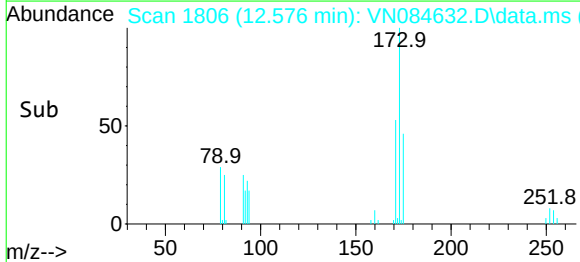
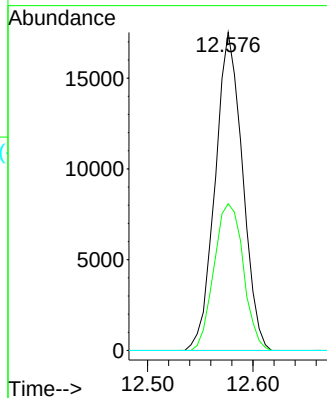
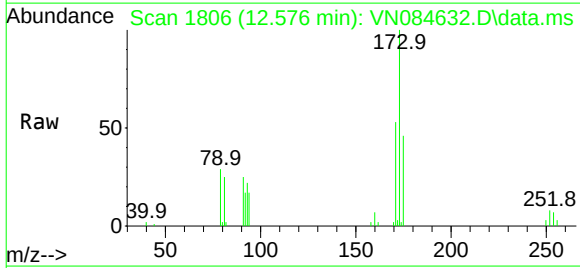
173 100

175 49.4 23.5 70.6

254 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

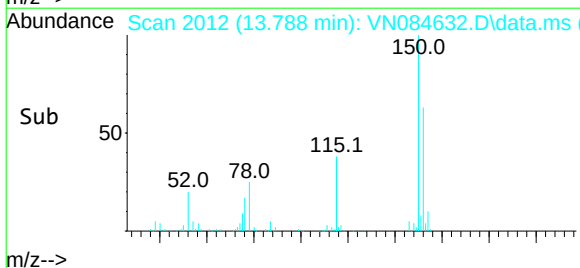
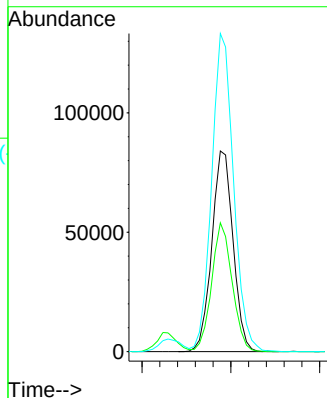
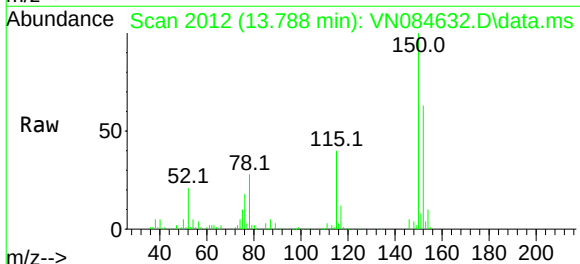
Tgt Ion:152 Resp: 139639

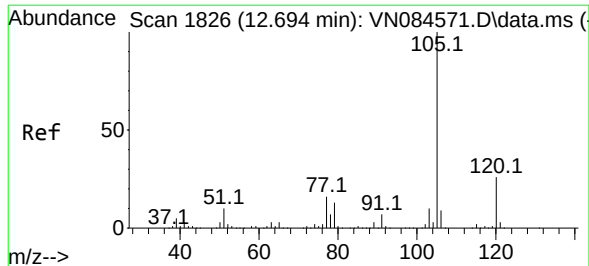
Ion Ratio Lower Upper

152 100

115 61.9 31.3 93.9

150 163.4 0.0 349.8





#73

Isopropylbenzene

Concen: 19.185 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion: 105 Resp: 187731

Ion Ratio Lower Upper

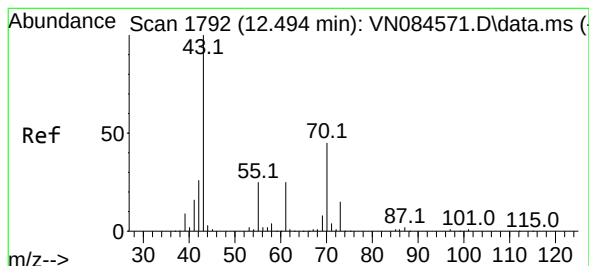
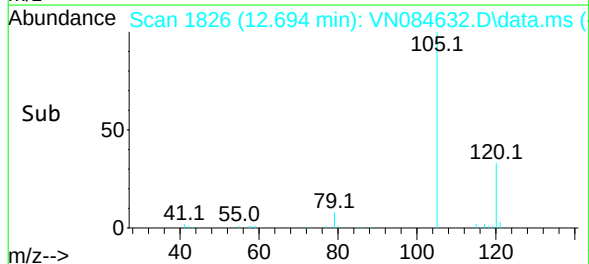
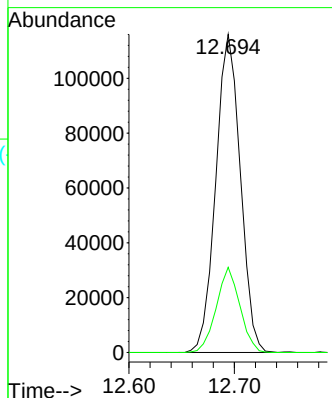
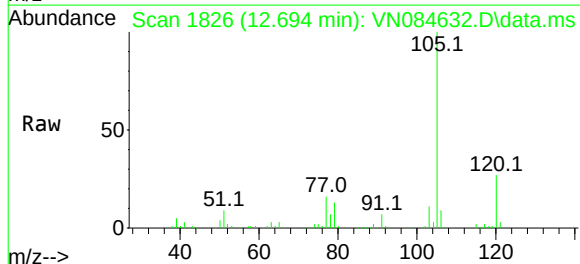
105 100

120 25.7 12.9 38.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#74

N-ethyl acetate

Concen: 19.218 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Tgt Ion: 43 Resp: 80040

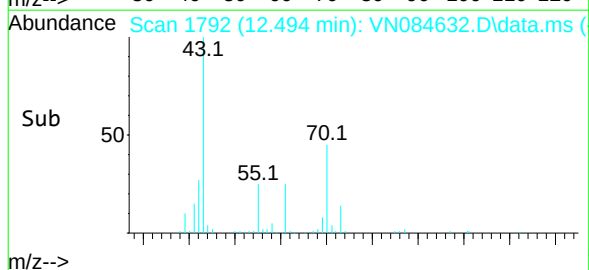
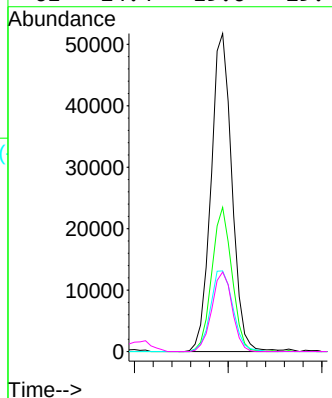
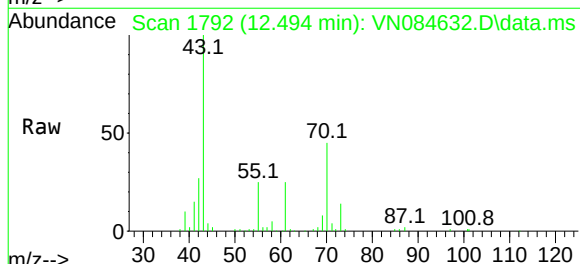
Ion Ratio Lower Upper

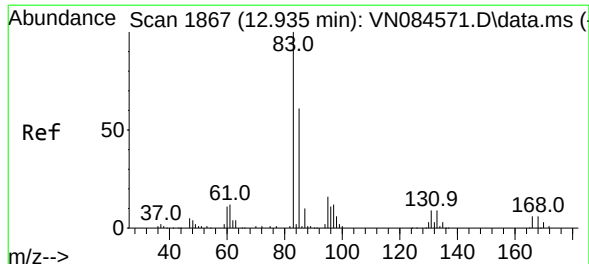
43 100

70 43.6 34.4 51.6

55 27.3 19.6 29.4

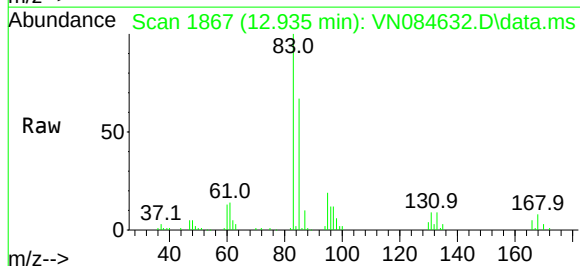
61 24.4 19.6 29.4





#75
1,1,2,2-Tetrachloroethane
Concen: 18.676 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

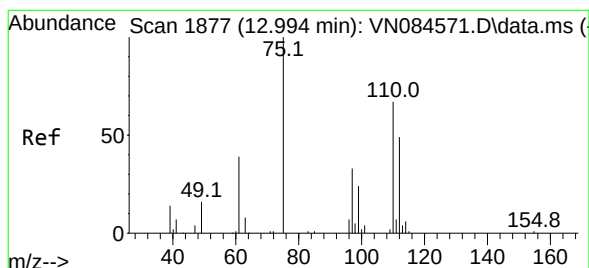
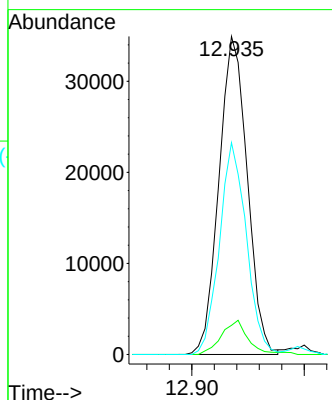
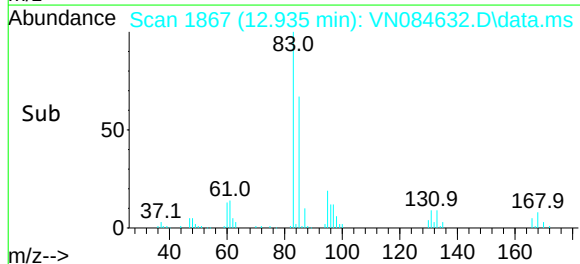
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBSD01



Tgt Ion	83	Resp	61000
Ion	Ratio	Lower	Upper
83	100		
131	10.3	4.9	14.7
85	63.3	31.9	95.7

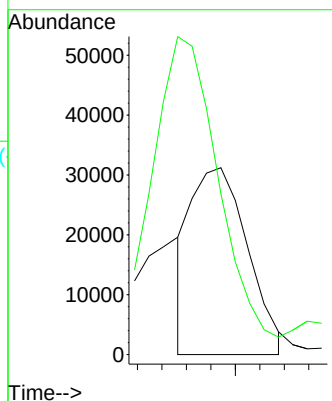
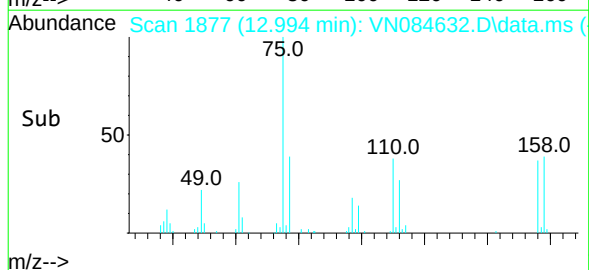
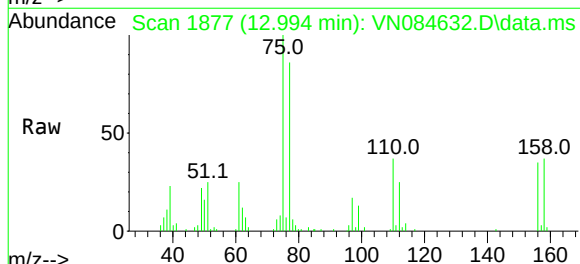
Manual Integrations
APPROVED

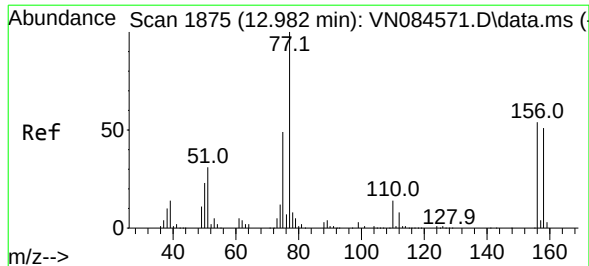
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#76
1,2,3-Trichloropropane
Concen: 18.000 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

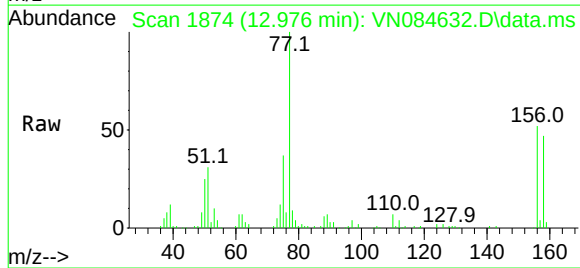
Tgt Ion	75	Resp	50243
Ion	Ratio	Lower	Upper
75	100		
77	207.9	96.9	290.7





#77
Bromobenzene
Concen: 18.321 ug/l
RT: 12.976 min Scan# 1875
Delta R.T. -0.006 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

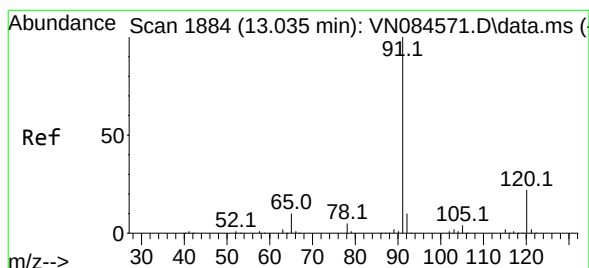
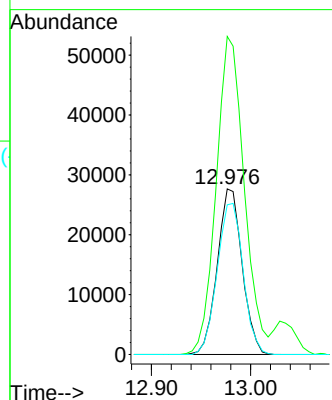
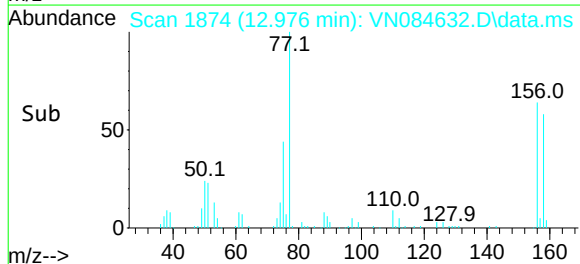
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBSD01



Tgt Ion: 156 Resp: 48197
Ion Ratio Lower Upper
156 100
77 216.7 115.1 345.3
158 95.2 48.9 146.8

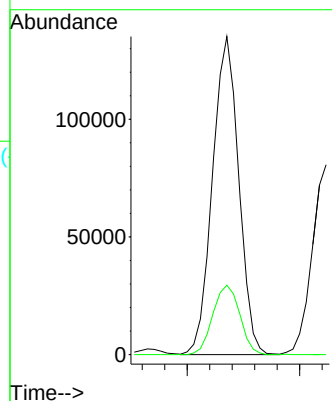
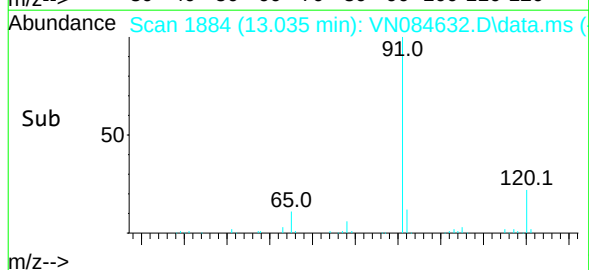
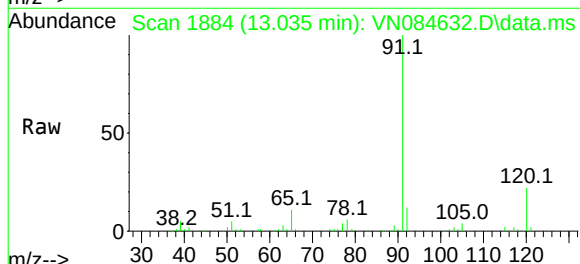
Manual Integrations
APPROVED

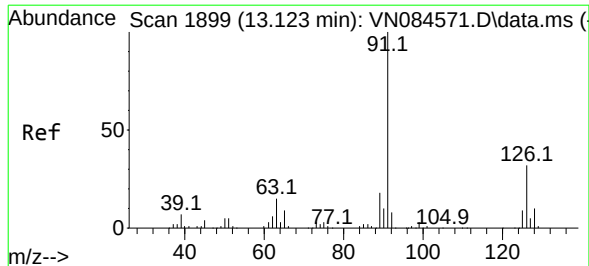
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#78
n-propylbenzene
Concen: 19.130 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

Tgt Ion: 91 Resp: 219361
Ion Ratio Lower Upper
91 100
120 22.3 10.8 32.4





#79

2-Chlorotoluene

Concen: 18.959 ug/l

RT: 13.124 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion: 91 Resp: 142054

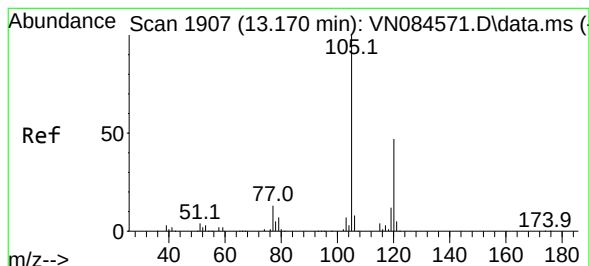
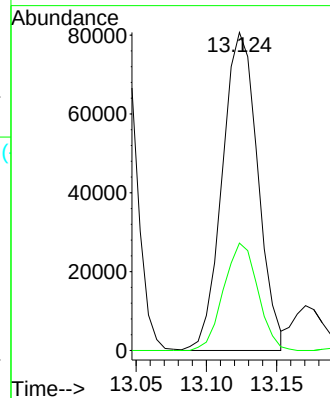
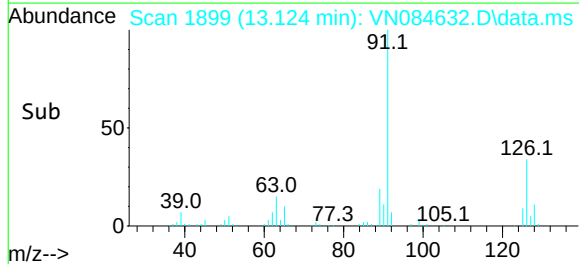
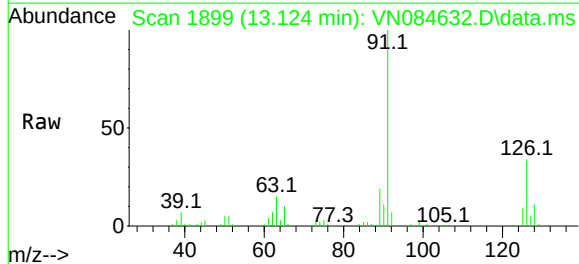
Ion Ratio Lower Upper

91 100

126 32.5 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#80

1,3,5-Trimethylbenzene

Concen: 19.861 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN084632.D

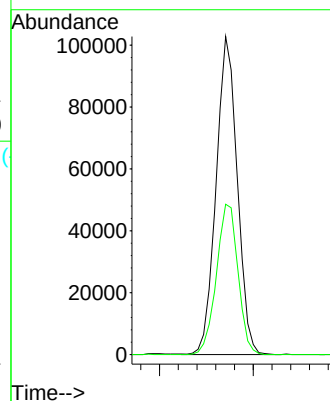
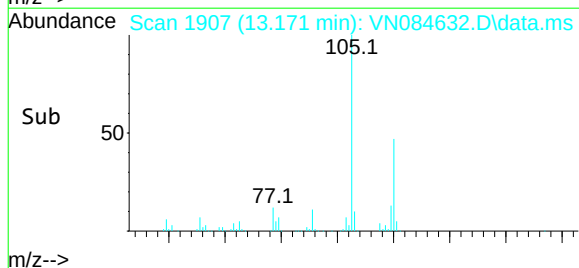
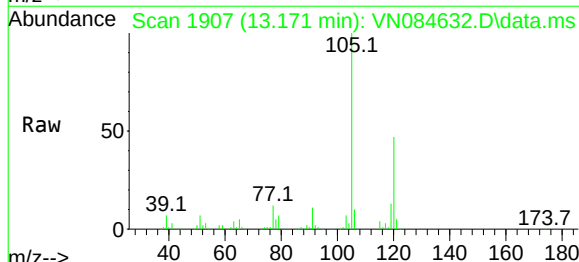
Acq: 01 Nov 2024 12:32

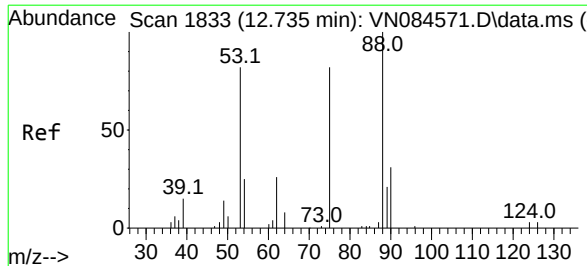
Tgt Ion:105 Resp: 161079

Ion Ratio Lower Upper

105 100

120 48.2 23.7 71.1





#81

trans-1,4-Dichloro-2-butene

Concen: 18.271 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN084632.D

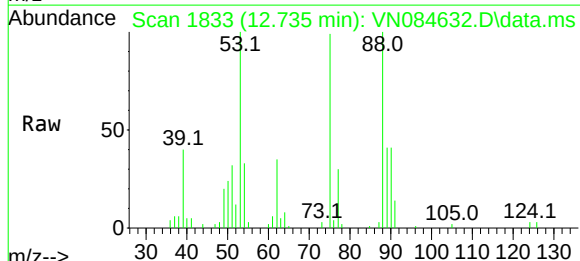
Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

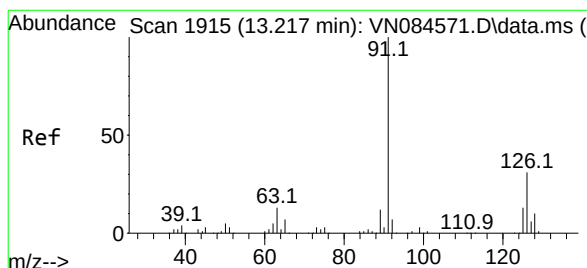
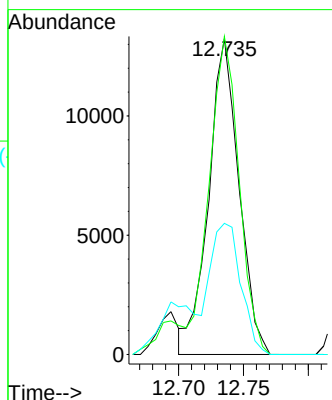
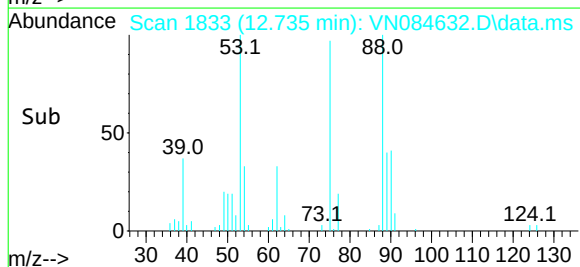
VN1101WBSD01



Tgt Ion:	75	Resp:	21497
Ion	Ratio	Lower	Upper
75	100		
53	99.3	78.0	117.0
89	41.4	35.5	53.3

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#82

4-Chlorotoluene

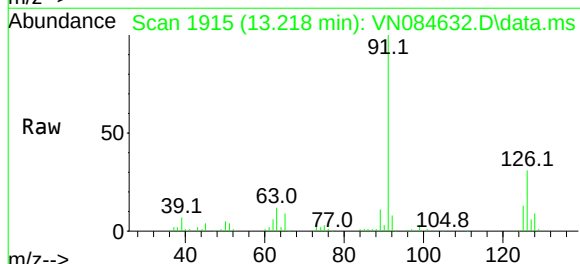
Concen: 18.187 ug/l

RT: 13.218 min Scan# 1915

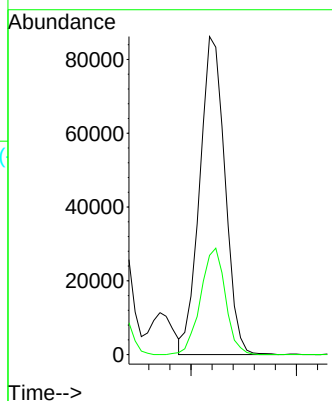
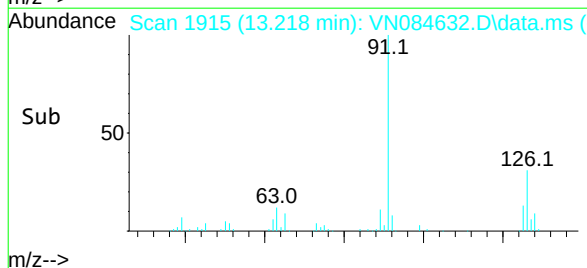
Delta R.T. 0.000 min

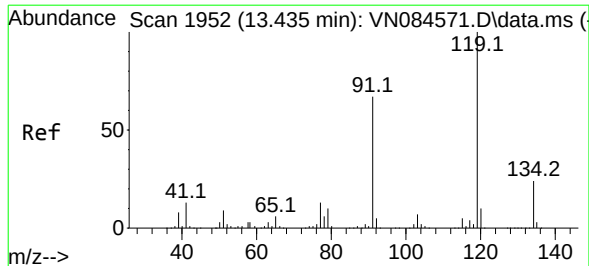
Lab File: VN084632.D

Acq: 01 Nov 2024 12:32



Tgt Ion:	91	Resp:	143409
Ion	Ratio	Lower	Upper
91	100		
126	32.9	15.7	47.1





#83

tert-Butylbenzene

Concen: 20.530 ug/l

RT: 13.435 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion:119 Resp: 137807

Ion Ratio Lower Upper

119 100

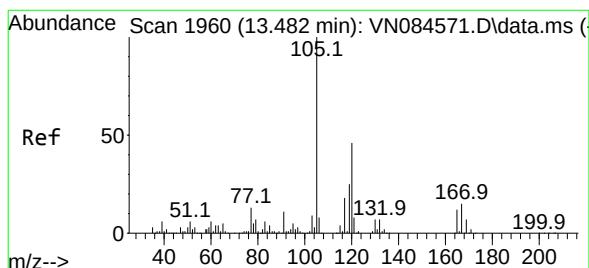
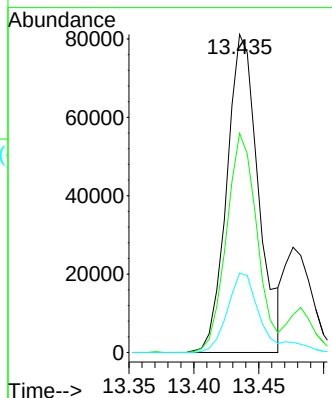
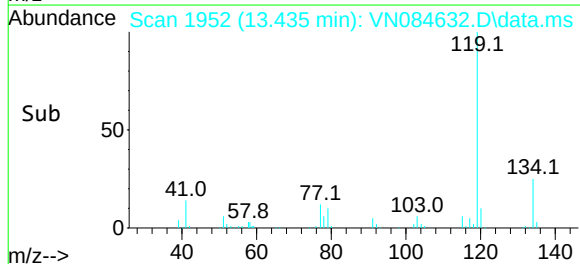
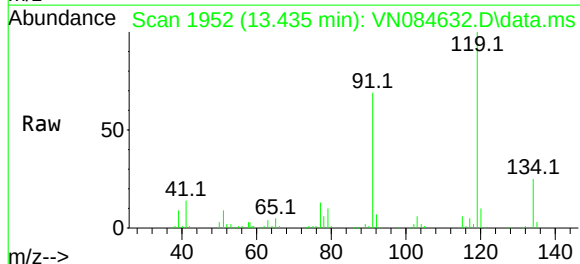
91 66.5 34.1 102.3

134 26.7 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#84

1,2,4-Trimethylbenzene

Concen: 19.634 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN084632.D

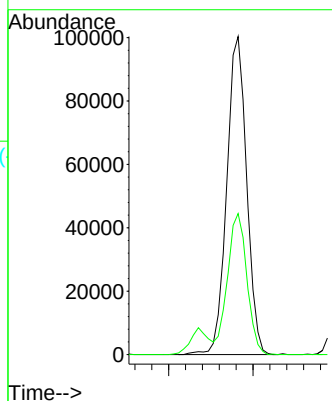
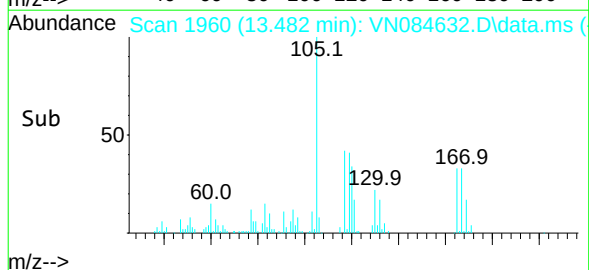
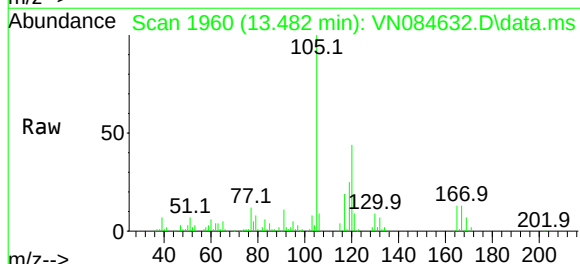
Acq: 01 Nov 2024 12:32

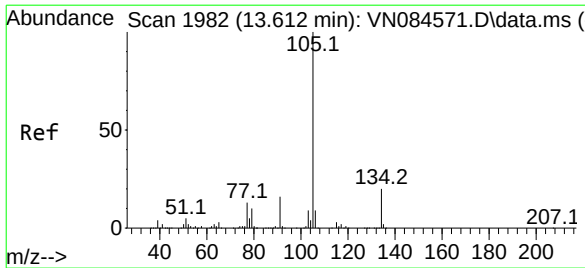
Tgt Ion:105 Resp: 164356

Ion Ratio Lower Upper

105 100

120 43.5 22.3 66.8





#85

sec-Butylbenzene

Concen: 19.458 ug/l

RT: 13.612 min Scan# 19

Delta R.T. -0.006 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion:105 Resp: 184495

Ion Ratio Lower Upper

105 100

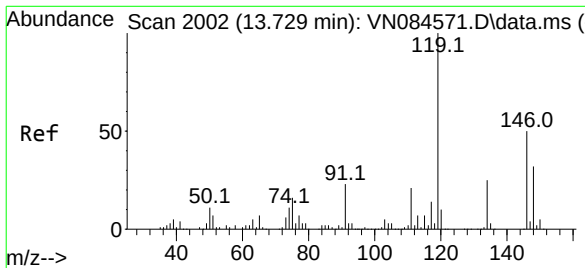
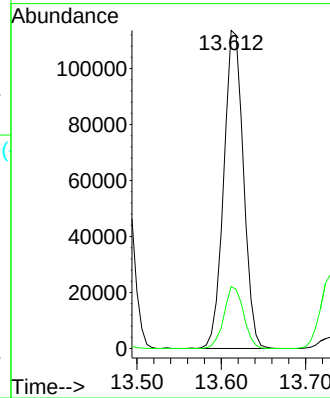
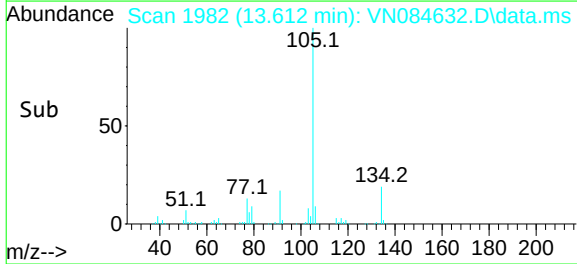
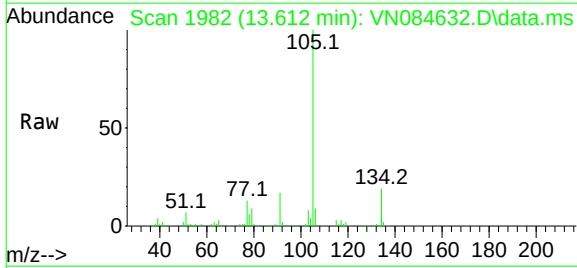
134 19.4 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024

Supervised By :Semsettin Yesilyurt 11/04/2024



#86

p-Isopropyltoluene

Concen: 19.939 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

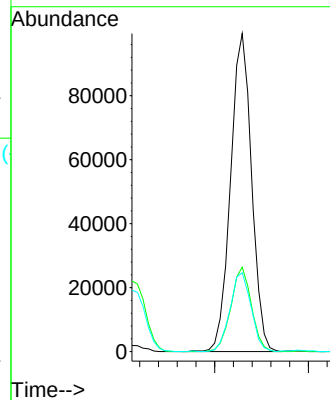
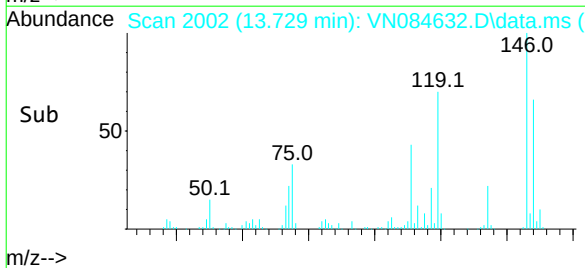
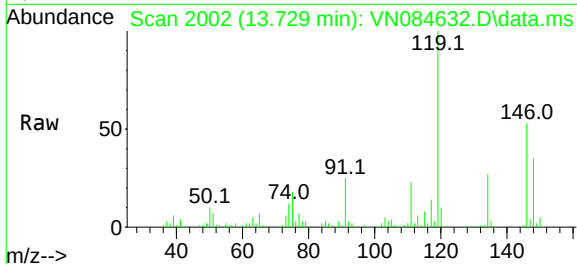
Tgt Ion:119 Resp: 155045

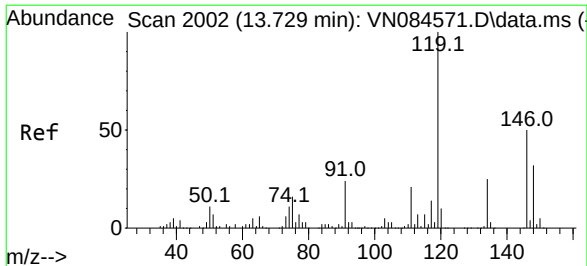
Ion Ratio Lower Upper

119 100

134 25.9 12.6 37.8

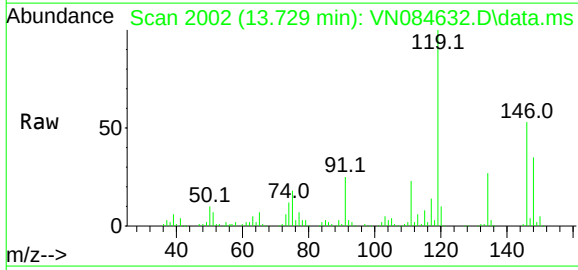
91 24.9 12.4 37.2





1,3-Dichlorobenzene
Concen: 17.338 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

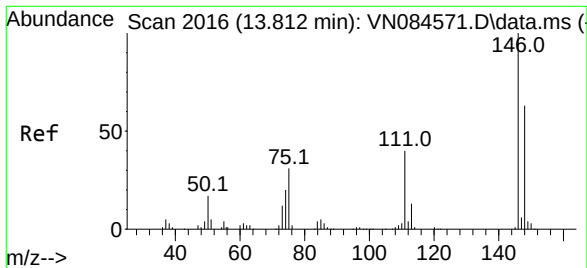
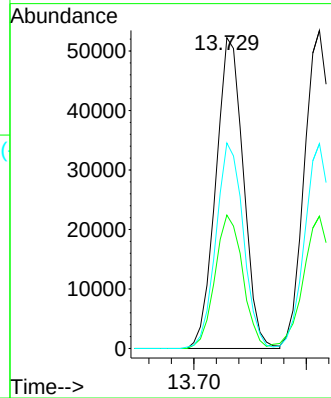
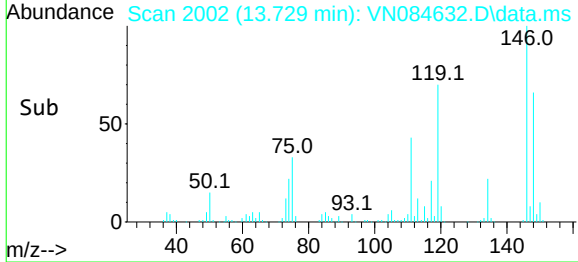
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBSD01



Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.2	21.8	65.3
148	65.7	31.9	95.7

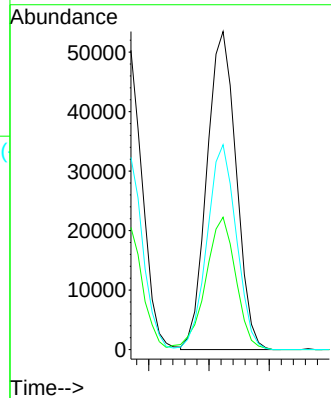
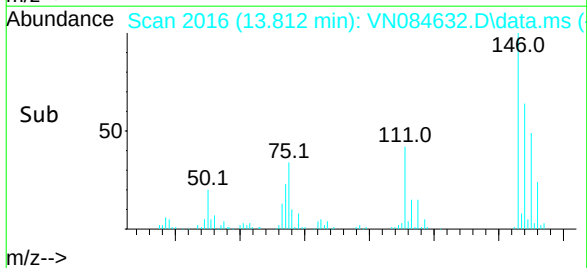
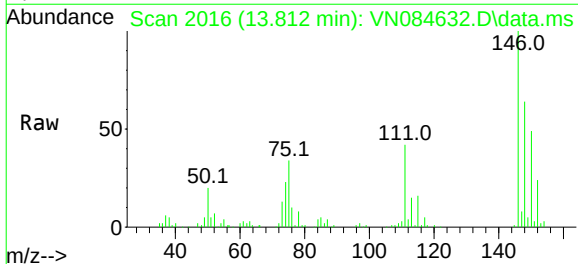
Manual Integrations
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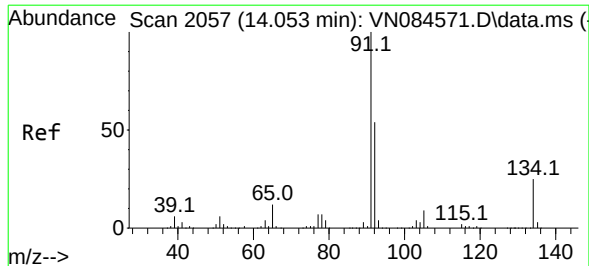
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



1,4-Dichlorobenzene
Concen: 18.501 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.2	63.6
148	64.2	31.9	95.9





#89

n-Butylbenzene

Concen: 17.349 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

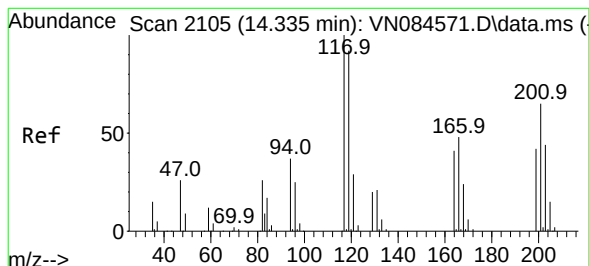
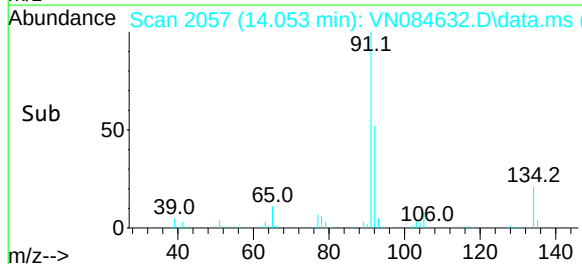
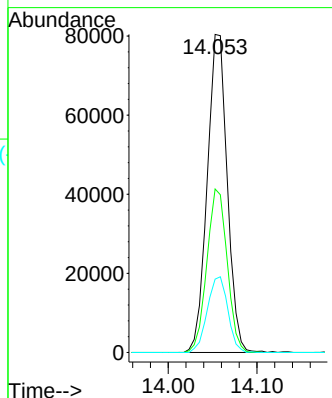
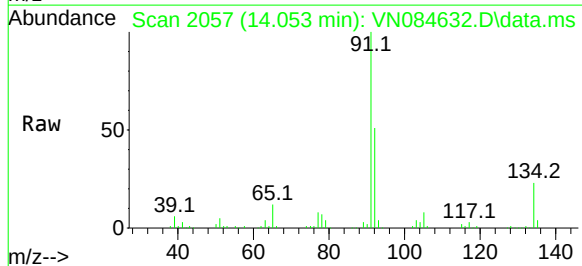
ClientSampleId :

VN1101WBSD01

Tgt Ion:	91	Resp:	126197
Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.6	79.7
134	24.3	12.3	36.9

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#90

Hexachloroethane

Concen: 17.643 ug/l

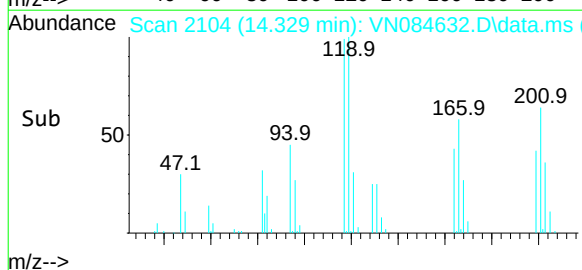
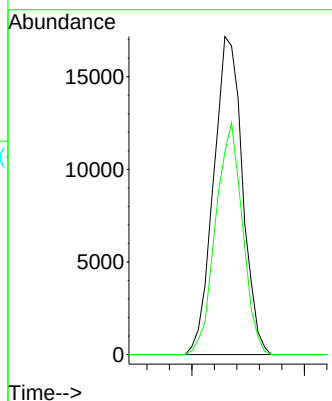
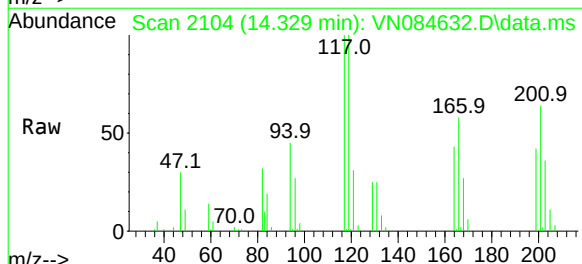
RT: 14.329 min Scan# 2104

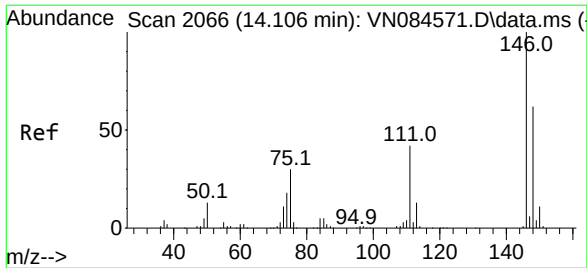
Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

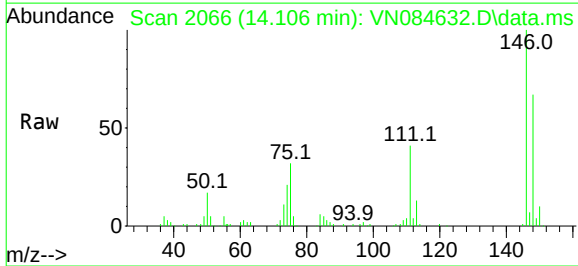
Tgt Ion:	117	Resp:	30596
Ion	Ratio	Lower	Upper
117	100		
201	68.0	34.4	103.2





#91
1,2-Dichlorobenzene
Concen: 18.166 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

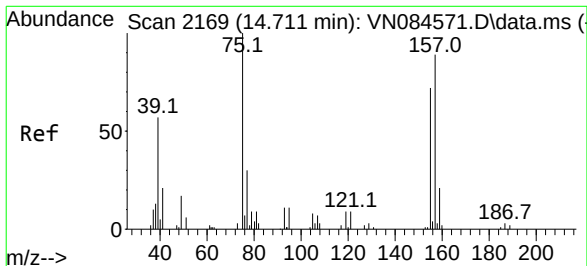
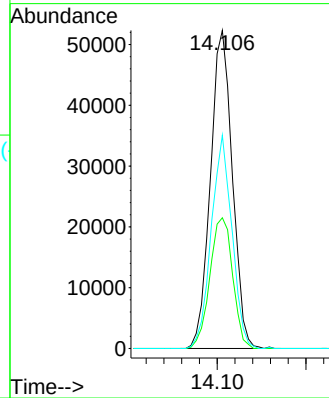
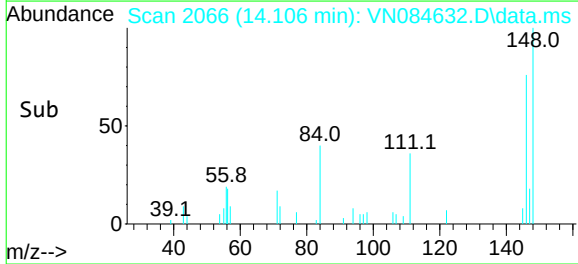
Instrument :
MSVOA_N
ClientSampleId :
VN1101WBSD01



Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.6	22.0	66.0
148	63.4	32.1	96.3

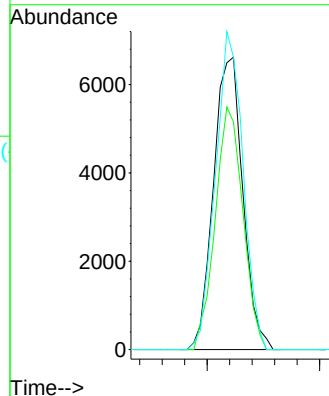
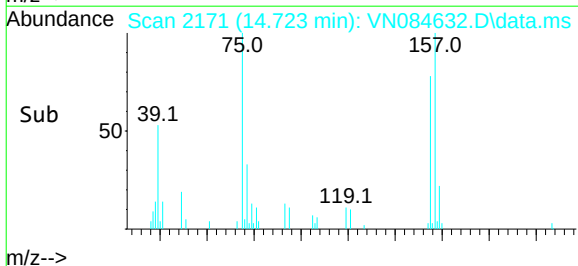
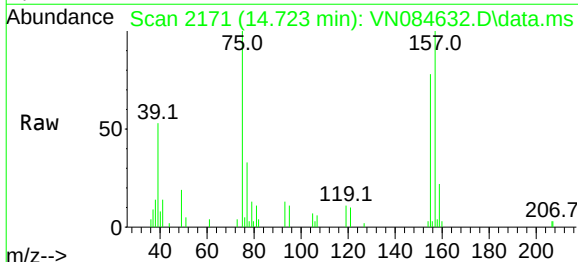
Manual Integrations
APPROVED

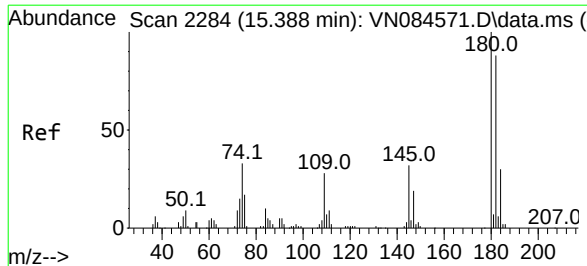
Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 18.135 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN084632.D
Acq: 01 Nov 2024 12:32

Tgt Ion	Ratio	Lower	Upper
75	100		
155	78.3	38.1	114.5
157	102.2	49.6	149.0





#93

1,2,4-Trichlorobenzene

Concen: 15.975 ug/l

RT: 15.394 min Scan# 2284

Delta R.T. 0.006 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion:180 Resp: 43138

Ion Ratio Lower Upper

180 100

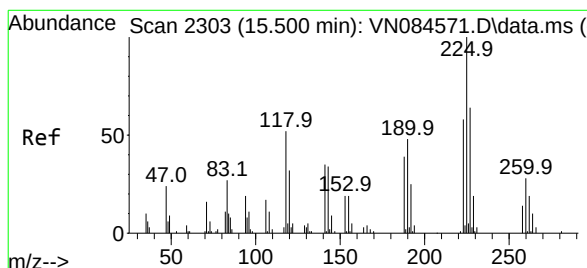
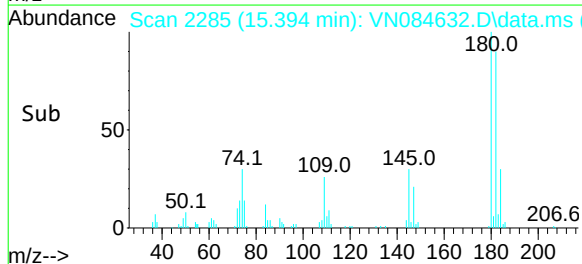
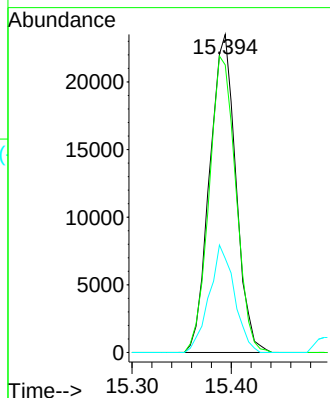
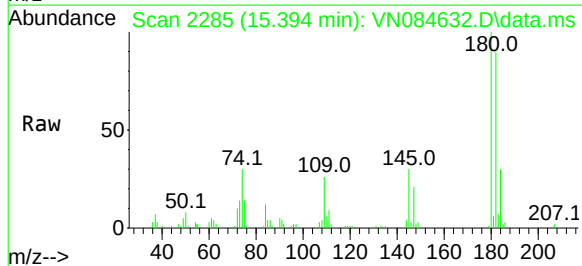
182 94.6 47.0 141.0

145 32.5 16.4 49.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



#94

Hexachlorobutadiene

Concen: 16.620 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

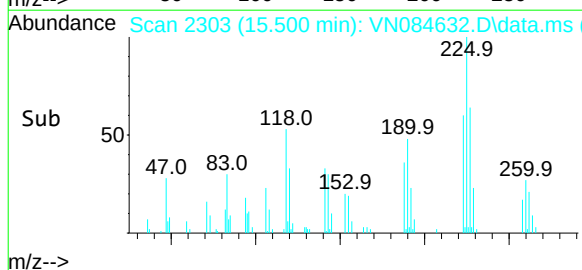
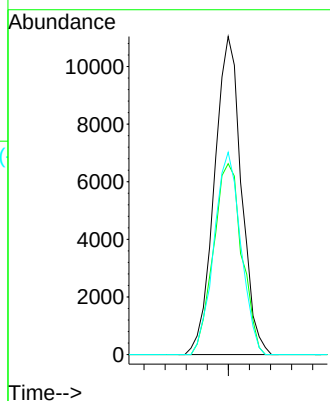
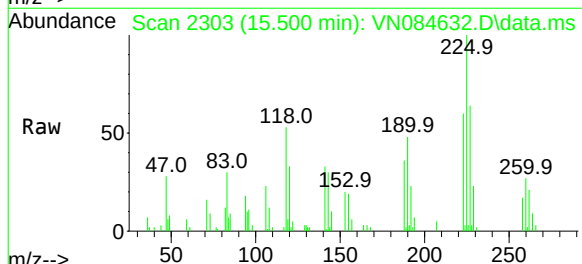
Tgt Ion:225 Resp: 19708

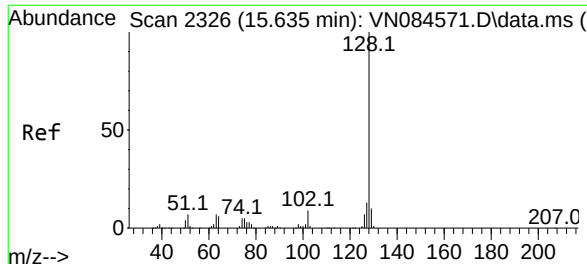
Ion Ratio Lower Upper

225 100

223 63.2 32.4 97.2

227 63.1 32.4 97.0





#95

Naphthalene

Concen: 16.299 ug/l

RT: 15.641 min Scan# 2326

Delta R.T. 0.006 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

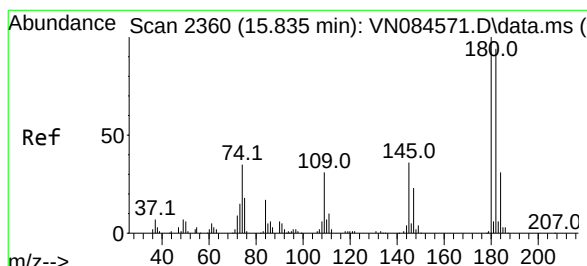
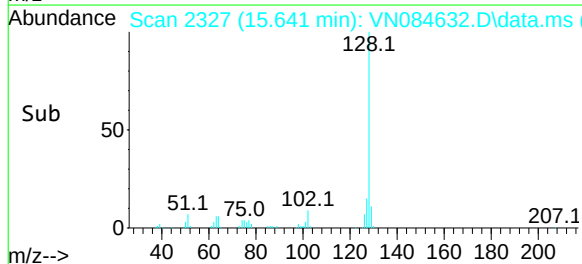
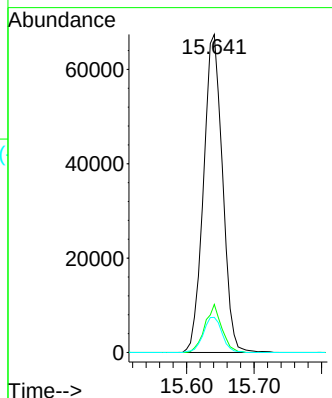
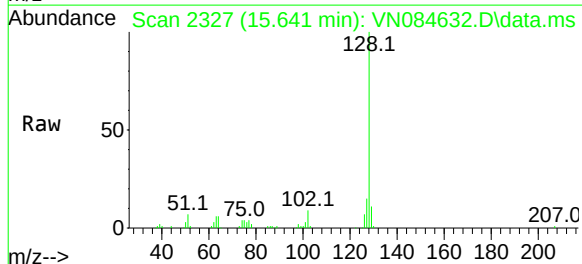
Instrument :

MSVOA_N

ClientSampleId :

VN1101WBSD01

Tgt Ion:	128	Resp:	131737
Ion Ratio	Lower	Upper	
128	100		
127	13.4	10.5	15.7
129	11.0	8.7	13.1

Manual Integrations
APPROVEDReviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

#96

1,2,3-Trichlorobenzene

Concen: 16.090 ug/l

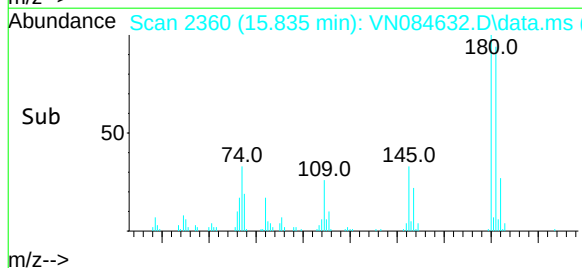
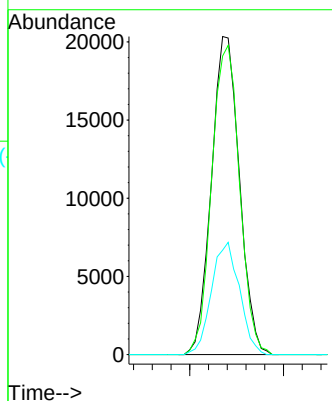
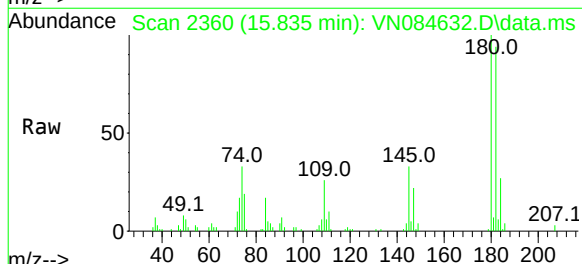
RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN084632.D

Acq: 01 Nov 2024 12:32

Tgt Ion:	180	Resp:	42176
Ion Ratio	Lower	Upper	
180	100		
182	96.7	48.2	144.6
145	35.4	17.3	51.9



Manual Integration Report

Sequence:	vn103024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN084570.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:14 AM	MMDadoda	11/4/2024 1:18:00 AM	Peak Integrated by Software
VSTDICCC050	VN084571.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:15 AM	MMDadoda	11/4/2024 1:18:01 AM	Peak Integrated by Software
VSTDICC020	VN084572.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:16 AM	MMDadoda	11/4/2024 1:18:03 AM	Peak Integrated by Software
VSTDICC010	VN084573.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:17 AM	MMDadoda	11/4/2024 1:18:04 AM	Peak Integrated by Software
VSTDICC005	VN084574.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:20 AM	MMDadoda	11/4/2024 1:18:05 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	1,4-Dichlorobenzene	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	Acetone	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	Diethyl Ether	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICV050	VN084577.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:23 AM	MMDadoda	11/4/2024 1:18:09 AM	Peak Integrated by Software
VSTDCCC050	VN084579.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:34 AM	MMDadoda	11/4/2024 1:18:38 AM	Peak Integrated by Software
VSTDCCC050	VN084579.D	trans-1,4-Dichloro-2-butene	SAM	11/4/2024 1:12:34 AM	MMDadoda	11/4/2024 1:18:38 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

vn103024

Instrument

MSVOA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	VN110124	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN084628.D	1,2,3-Trichloropropane	MMDadoda	11/4/2024 5:57:12 PM	SAM	11/4/2024 5:58:20 PM	Peak Integrated by Software
VN1101WBS01	VN084631.D	1,2,3-Trichloropropane	MMDadoda	11/4/2024 5:57:14 PM	SAM	11/4/2024 5:58:21 PM	Peak Integrated by Software
VN1101WBSD01	VN084632.D	1,2,3-Trichloropropane	MMDadoda	11/4/2024 5:57:16 PM	SAM	11/4/2024 5:58:23 PM	Peak Integrated by Software
P4665-07	VN084641.D	1,1,2-Trichlorotrifluoroethane	MMDadoda	11/4/2024 5:57:19 PM	SAM	11/4/2024 5:58:25 PM	Peak Integrated by Software
VSTDCCC050	VN084643.D	1,2,3-Trichloropropane	MMDadoda	11/4/2024 5:57:22 PM	SAM	11/4/2024 5:58:27 PM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Maresh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m
STD. NAME		STD REF.#			
Tune/Reschk		VP131194.VP131195			
Initial Calibration Stds		VP131185,VP131186,VP131187,VP131188,VP131189,VP131190			
CCC		VP131191,VP131192			
Internal Standard/PEM		VP128298			
ICV/I.BLK		VP131193			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	Sampleld	Data File Name	Date-Time	Operator	Status
1	BFB	VN084569.D	30 Oct 2024 10:42	JC\MD	Ok
2	VSTDICC100	VN084570.D	30 Oct 2024 11:46	JC\MD	Ok,M
3	VSTDICCC050	VN084571.D	30 Oct 2024 12:09	JC\MD	Ok,M
4	VSTDICC020	VN084572.D	30 Oct 2024 12:33	JC\MD	Ok,M
5	VSTDICC010	VN084573.D	30 Oct 2024 12:57	JC\MD	Ok,M
6	VSTDICC005	VN084574.D	30 Oct 2024 13:21	JC\MD	Ok,M
7	VSTDICC001	VN084575.D	30 Oct 2024 13:45	JC\MD	Ok,M
8	VIBLK	VN084576.D	30 Oct 2024 14:42	JC\MD	Ok
9	VSTDICV050	VN084577.D	30 Oct 2024 15:06	JC\MD	Ok,M
10	BFB	VN084578.D	30 Oct 2024 19:24	JC\MD	Ok
11	VSTDCCC050	VN084579.D	30 Oct 2024 20:12	JC\MD	Ok,M
12	VN1030MBL01	VN084580.D	30 Oct 2024 20:48	JC\MD	Ok
13	VN1030WBL01	VN084581.D	30 Oct 2024 21:12	JC\MD	Ok
14	VN1030WBS01	VN084582.D	30 Oct 2024 21:46	JC\MD	Ok,M
15	VN1030WBSD01	VN084583.D	30 Oct 2024 22:10	JC\MD	Ok,M
16	P4594-04	VN084584.D	30 Oct 2024 22:34	JC\MD	Ok,M
17	P4594-08	VN084585.D	30 Oct 2024 22:58	JC\MD	Ok
18	P4594-12	VN084586.D	30 Oct 2024 23:22	JC\MD	Ok
19	P4594-16	VN084587.D	30 Oct 2024 23:46	JC\MD	Ok
20	P4594-20	VN084588.D	31 Oct 2024 00:09	JC\MD	Ok
21	P4597-03	VN084589.D	31 Oct 2024 00:34	JC\MD	Ok

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Maresh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m
STD. NAME		STD REF.#			
Tune/Reschk		VP131194.VP131195			
Initial Calibration Stds		VP131185,VP131186,VP131187,VP131188,VP131189,VP131190			
CCC		VP131191,VP131192			
Internal Standard/PEM		VP128298			
ICV/I.BLK		VP131193			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	P4597-06	VN084590.D	31 Oct 2024 00:57	JC\MD	Ok,M
23	P4597-09	VN084591.D	31 Oct 2024 01:21	JC\MD	Ok
24	P4597-12	VN084592.D	31 Oct 2024 01:45	JC\MD	Ok,M
25	P4598-04	VN084593.D	31 Oct 2024 02:09	JC\MD	Ok
26	P4598-08	VN084594.D	31 Oct 2024 02:33	JC\MD	Ok
27	P4598-12	VN084595.D	31 Oct 2024 02:57	JC\MD	Ok
28	P4611-03	VN084596.D	31 Oct 2024 03:21	JC\MD	Ok
29	P4611-06	VN084597.D	31 Oct 2024 03:45	JC\MD	Ok
30	P4611-09	VN084598.D	31 Oct 2024 04:09	JC\MD	Ok
31	P4611-12	VN084599.D	31 Oct 2024 04:33	JC\MD	Ok
32	P4611-15	VN084600.D	31 Oct 2024 04:57	JC\MD	Ok
33	P4611-18	VN084601.D	31 Oct 2024 05:21	JC\MD	Ok
34	P4612-04	VN084602.D	31 Oct 2024 05:45	JC\MD	Ok
35	P4613-02	VN084603.D	31 Oct 2024 06:09	JC\MD	Ok
36	PB164501ZHE#13	VN084604.D	31 Oct 2024 06:33	JC\MD	Ok,M
37	PB164501ZHE#14	VN084605.D	31 Oct 2024 06:57	JC\MD	Ok,M
38	PB164501ZHE#15	VN084606.D	31 Oct 2024 07:22	JC\MD	Ok,M
39	PB164501ZHE#16	VN084607.D	31 Oct 2024 07:46	JC\MD	Ok
40	PB164501ZHE#17	VN084608.D	31 Oct 2024 08:10	JC\MD	Ok,M
41	PB164501ZHE#18	VN084609.D	31 Oct 2024 08:34	JC\MD	Ok,M
42	PB164501ZHE#19	VN084610.D	31 Oct 2024 08:58	JC\MD	Ok,M
43	PB164501ZHE#20	VN084611.D	31 Oct 2024 09:22	JC\MD	Ok

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN110124

Review By	Mahesh Dadoda	Review On	11/4/2024 5:57:30 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/4/2024 5:58:33 PM		
SubDirectory	VN110124	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP131230			
CCC		VP131233,VP131234			
Internal Standard/PEM		VP128298			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084627.D	01 Nov 2024 09:48	JC\MD	Ok
2	VSTDCCC050	VN084628.D	01 Nov 2024 10:22	JC\MD	Ok,M
3	VN1101MBL01	VN084629.D	01 Nov 2024 11:04	JC\MD	Not Ok
4	VN1101WBL01	VN084630.D	01 Nov 2024 11:29	JC\MD	Ok
5	VN1101WBS01	VN084631.D	01 Nov 2024 12:08	JC\MD	Ok,M
6	VN1101WBSD01	VN084632.D	01 Nov 2024 12:32	JC\MD	Ok,M
7	VIBLK	VN084633.D	01 Nov 2024 12:56	JC\MD	Ok
8	P4658-04	VN084634.D	01 Nov 2024 13:20	JC\MD	Ok
9	P4665-01	VN084635.D	01 Nov 2024 13:53	JC\MD	Ok
10	P4665-05	VN084636.D	01 Nov 2024 14:17	JC\MD	Ok
11	P4665-06	VN084637.D	01 Nov 2024 14:42	JC\MD	Ok
12	P4665-02	VN084638.D	01 Nov 2024 15:06	JC\MD	Ok
13	P4665-03	VN084639.D	01 Nov 2024 15:30	JC\MD	Ok
14	P4665-04	VN084640.D	01 Nov 2024 15:54	JC\MD	Ok
15	P4665-07	VN084641.D	01 Nov 2024 16:19	JC\MD	Ok,M
16	VIBLK	VN084642.D	01 Nov 2024 16:43	JC\MD	Ok
17	VSTDCCC050	VN084643.D	01 Nov 2024 17:07	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM
Supervise By	Maresh Dadoda	Supervise On	11/4/2024 1:18:30 AM
SubDirectory	VN103024	HP Acquire Method	MSVOA_N HP Processing Method 82n103024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131194,VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084569.D	30 Oct 2024 10:42		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN084570.D	30 Oct 2024 11:46	Comp #03 fail for %D	JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN084571.D	30 Oct 2024 12:09	LR-03,06,16,18,43	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN084572.D	30 Oct 2024 12:33	QR-88	JC\MD	Ok,M
5	VSTDICC010	VSTDICC010	VN084573.D	30 Oct 2024 12:57		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN084574.D	30 Oct 2024 13:21		JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN084575.D	30 Oct 2024 13:45		JC\MD	Ok,M
8	VIBLK	VIBLK	VN084576.D	30 Oct 2024 14:42		JC\MD	Ok
9	VSTDICV050	ICVVN103024	VN084577.D	30 Oct 2024 15:06		JC\MD	Ok,M
10	BFB	BFB	VN084578.D	30 Oct 2024 19:24		JC\MD	Ok
11	VSTDCCC050	VSTDCCC050	VN084579.D	30 Oct 2024 20:12		JC\MD	Ok,M
12	VN1030MBL01	VN1030MBL01	VN084580.D	30 Oct 2024 20:48		JC\MD	Ok
13	VN1030WBL01	VN1030WBL01	VN084581.D	30 Oct 2024 21:12		JC\MD	Ok
14	VN1030WBS01	VN1030WBS01	VN084582.D	30 Oct 2024 21:46		JC\MD	Ok,M
15	VN1030WBSD01	VN1030WBSD01	VN084583.D	30 Oct 2024 22:10		JC\MD	Ok,M
16	P4594-04	TP-4	VN084584.D	30 Oct 2024 22:34	pH#5.0 A	JC\MD	Ok,M
17	P4594-08	BP-F17	VN084585.D	30 Oct 2024 22:58	pH#5.0 A	JC\MD	Ok
18	P4594-12	BP-F16	VN084586.D	30 Oct 2024 23:22	pH#5.0 A	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m
STD. NAME		STD REF.#			
Tune/Reschk		VP131194.VP131195			
Initial Calibration Stds		VP131185,VP131186,VP131187,VP131188,VP131189,VP131190			
CCC		VP131191,VP131192			
Internal Standard/PEM		VP128298			
ICV/I.BLK		VP131193			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	P4594-16	TP-5	VN084587.D	30 Oct 2024 23:46	pH#7.0 A	JC\MD	Ok
20	P4594-20	BP-F15	VN084588.D	31 Oct 2024 00:09	pH#6.0 A	JC\MD	Ok
21	P4597-03	RED-1-1	VN084589.D	31 Oct 2024 00:34	pH#6.0 A	JC\MD	Ok
22	P4597-06	RED-1-2	VN084590.D	31 Oct 2024 00:57	pH#5.0 A	JC\MD	Ok,M
23	P4597-09	BLUE-2-1	VN084591.D	31 Oct 2024 01:21	pH#5.0 A	JC\MD	Ok
24	P4597-12	BLUE-2-2	VN084592.D	31 Oct 2024 01:45	pH#5.0 A	JC\MD	Ok,M
25	P4598-04	BP-F12	VN084593.D	31 Oct 2024 02:09	pH#7.0 A	JC\MD	Ok
26	P4598-08	BP-F11	VN084594.D	31 Oct 2024 02:33	pH#7.0 A	JC\MD	Ok
27	P4598-12	TP-8	VN084595.D	31 Oct 2024 02:57	pH#6.0 A	JC\MD	Ok
28	P4611-03	TP-1	VN084596.D	31 Oct 2024 03:21	pH#5.0 A	JC\MD	Ok
29	P4611-06	TP-2	VN084597.D	31 Oct 2024 03:45	pH#5.0 A	JC\MD	Ok
30	P4611-09	TP-3	VN084598.D	31 Oct 2024 04:09	pH#5.0 A	JC\MD	Ok
31	P4611-12	TP-4	VN084599.D	31 Oct 2024 04:33	pH#5.0 A	JC\MD	Ok
32	P4611-15	TP-5	VN084600.D	31 Oct 2024 04:57	pH#5.0 A	JC\MD	Ok
33	P4611-18	TP-6	VN084601.D	31 Oct 2024 05:21	pH#5.0 A	JC\MD	Ok
34	P4612-04	MOO-24-00335	VN084602.D	31 Oct 2024 05:45	pH#5.0 A	JC\MD	Ok
35	P4613-02	ARS20-0001	VN084603.D	31 Oct 2024 06:09	pH#5.0 A	JC\MD	Ok
36	PB164501ZHE#13	PB164501ZHE#13	VN084604.D	31 Oct 2024 06:33	pH#5.0 A	JC\MD	Ok,M
37	PB164501ZHE#14	PB164501ZHE#14	VN084605.D	31 Oct 2024 06:57	pH#5.0 A	JC\MD	Ok,M

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m
STD. NAME		STD REF.#			
Tune/Reschk		VP131194.VP131195			
Initial Calibration Stds		VP131185,VP131186,VP131187,VP131188,VP131189,VP131190			
CCC		VP131191,VP131192			
Internal Standard/PEM		VP128298			
ICV/I.BLK		VP131193			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

38	PB164501ZHE#15	PB164501ZHE#15	VN084606.D	31 Oct 2024 07:22	pH#5.0 A	JC\MD	Ok,M
39	PB164501ZHE#16	PB164501ZHE#16	VN084607.D	31 Oct 2024 07:46	pH#5.0 A	JC\MD	Ok
40	PB164501ZHE#17	PB164501ZHE#17	VN084608.D	31 Oct 2024 08:10	pH#5.0 A	JC\MD	Ok,M
41	PB164501ZHE#18	PB164501ZHE#18	VN084609.D	31 Oct 2024 08:34	pH#5.0 A	JC\MD	Ok,M
42	PB164501ZHE#19	PB164501ZHE#19	VN084610.D	31 Oct 2024 08:58	pH#5.0 A	JC\MD	Ok,M
43	PB164501ZHE#20	PB164501ZHE#20	VN084611.D	31 Oct 2024 09:22	pH#5.0 A	JC\MD	Ok

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN110124

Review By	Maresh Dadoda	Review On	11/4/2024 5:57:30 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/4/2024 5:58:33 PM
SubDirectory	VN110124	HP Acquire Method	MSVOA_N
		HP Processing Method	82n103024w.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP131230
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131233,VP131234 VP128298

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084627.D	01 Nov 2024 09:48		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084628.D	01 Nov 2024 10:22		JC\MD	Ok,M
3	VN1101MBL01	VN1101MBL01	VN084629.D	01 Nov 2024 11:04	Contaminated	JC\MD	Not Ok
4	VN1101WBL01	VN1101WBL01	VN084630.D	01 Nov 2024 11:29		JC\MD	Ok
5	VN1101WBS01	VN1101WBS01	VN084631.D	01 Nov 2024 12:08		JC\MD	Ok,M
6	VN1101WBSD01	VN1101WBSD01	VN084632.D	01 Nov 2024 12:32		JC\MD	Ok,M
7	VIBLK	VIBLK	VN084633.D	01 Nov 2024 12:56		JC\MD	Ok
8	P4658-04	TB	VN084634.D	01 Nov 2024 13:20	pH<2 A TB	JC\MD	Ok
9	P4665-01	BP-VPB-190-TB-20241	VN084635.D	01 Nov 2024 13:53	pH<2 A TB;Hit of comp.#29	JC\MD	Ok
10	P4665-05	BP-VPB-190-GW-558-5	VN084636.D	01 Nov 2024 14:17	pH<2 A	JC\MD	Ok
11	P4665-06	BP-VPB-190-GW-583-5	VN084637.D	01 Nov 2024 14:42	pH<2 A	JC\MD	Ok
12	P4665-02	VPB190-HYD-2024103	VN084638.D	01 Nov 2024 15:06	pH<2 A	JC\MD	Ok
13	P4665-03	BP-VPB-190-EB-20241	VN084639.D	01 Nov 2024 15:30	pH<2 A EB	JC\MD	Ok
14	P4665-04	BP-VPB-190-GW-538-5	VN084640.D	01 Nov 2024 15:54	pH<2 A	JC\MD	Ok
15	P4665-07	BP-VPB-190-GW-598-6	VN084641.D	01 Nov 2024 16:19	pH<2 A	JC\MD	Ok,M
16	VIBLK	VIBLK	VN084642.D	01 Nov 2024 16:43		JC\MD	Ok
17	VSTDCCC050	VSTDCCC050EC	VN084643.D	01 Nov 2024 17:07		JC\MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : P4665

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: VN110124,

Standard ID :

VP128290,VP128298,VP128762,VP128766,VP130430,VP130836,VP131134,VP131230,VP131233,VP131234,

Chemical ID :

V12794,V12798,V13390,V13444,V13462,V13463,V13707,V13797,V13810,V14018,V14019,V14107,V14108,V14145,V14147,V14148,V14150,V14171,V14172,V14203,V14206,V14215,V14288,V14436,V14443,V14546,V14547,V14548,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>
218	BFB, 25PPM	VP128290	06/10/2024	11/23/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/12/2024

FROM 0.25000ml of V13390 + 24.75000ml of V14148 = 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	VP128298	06/10/2024	11/23/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/12/2024

FROM 0.10000ml of V14288 + 9.90000ml of V14148 = Final Quantity: 10.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1810	8260 Working Std(2-CVE)-800ppm	VP128762	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/02/2024

FROM 0.50000ml of V12798 + 1.50000ml of V12794 + 23.00000ml of V14147 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
719	8260 Working STD (BCM)-First source, 400PPM	VP128766	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/02/2024

FROM 1.50000ml of V13462 + 1.50000ml of V13463 + 12.00000ml of V14147 = Final Quantity: 15.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
617	8260 Surrogate, 400PPM	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>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP130836	10/14/2024	11/07/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								10/16/2024

FROM 1.00000ml of V14548 + 1.50000ml of V14546 + 1.50000ml of V14547 + 21.00000ml 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>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP131134	10/28/2024	12/07/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 10/30/2024
<u>FROM</u>	0.40000ml of V13444 + 1.00000ml of V13797 + 1.00000ml of V13810 + 1.00000ml of V14018 + 1.00000ml of V14019 + 1.00000ml of V14107 + 1.00000ml of V14108 + 1.00000ml of V14171 + 1.00000ml of V14172 + 1.00000ml of V14203 + 1.00000ml of V14436 + 1.00000ml of V14443 + 1.50000ml of V14206 + 1.50000ml of V14215 + 10.60000ml of V14150 = 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	VP131230	11/01/2024	11/02/2024	Amit Patel	None	None	Mahesh Dadoda 11/07/2024
<u>FROM</u> 39.98400ml of W3112 + 0.01600ml of VP128290 = 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	VP131233	11/01/2024	11/02/2024	Amit Patel	None	None	Mahesh Dadoda 11/07/2024
<u>FROM</u> 39.94450ml of W3112 + 0.00500ml of VP128766 + 0.00500ml of VP130430 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP130836 + 0.01250ml of VP131134 = 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	VP131234	11/01/2024	11/02/2024	Amit Patel	None	None	Mahesh Dadoda 11/07/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP128766 + 0.00500ml of VP130430 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP130836 + 0.01250ml of VP131134 = 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 #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	12/13/2024	06/25/2024 / SAM	03/30/2022 / SAM	V12794

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	12/13/2024	06/25/2024 / SAM	03/30/2022 / SAM	V12798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	12/08/2024	12/08/2023 / SAM	01/13/2023 / SAM	V13390

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	12/14/2024	06/14/2024 / SAM	01/23/2023 / SAM	V13444

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	01/01/2025	07/01/2024 / SAM	01/27/2023 / SAM	V13462

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	01/01/2025	07/01/2024 / SAM	01/27/2023 / SAM	V13463

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	04/17/2025	10/17/2024 / SAM	05/31/2023 / SAM	V13797

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	04/17/2025	10/17/2024 / SAM	05/31/2023 / SAM	V13810

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	03/16/2025	09/16/2024 / SAM	11/22/2023 / SAM	V14018

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	03/16/2025	09/16/2024 / SAM	11/22/2023 / SAM	V14019

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	04/17/2025	10/17/2024 / SAM	12/22/2023 / SAM	V14107

LOTS

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0205179	03/16/2025	09/16/2024 / SAM	12/22/2023 / SAM	V14108

LOTS

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	12/11/2024	06/11/2024 / pedro	02/06/2024 / SAM	V14147

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	11/23/2024	05/23/2024 / pedro	02/06/2024 / SAM	V14148

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	04/23/2025	10/23/2024 / Rajesh	02/06/2024 / SAM	V14150

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	03/16/2025	09/16/2024 / SAM	02/20/2024 / SAM	V14171

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	03/16/2025	09/16/2024 / SAM	02/20/2024 / SAM	V14172

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	04/17/2025	10/17/2024 / SAM	02/28/2024 / SAM	V14203

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	04/17/2025	10/17/2024 / SAM	02/28/2024 / SAM	V14206

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/16/2025	09/16/2024 / SAM	02/28/2024 / SAM	V14215

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	06/10/2025	06/10/2024 / SAM	04/15/2024 / SAM	V14288

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	09/16/2024 / SAM	08/15/2024 / SAM	V14436

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	03/16/2025	09/16/2024 / SAM	08/15/2024 / SAM	V14443

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	100724	11/07/2024	10/14/2024 / SAM	10/09/2024 / SAM	V14546

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	100724	11/07/2024	10/14/2024 / SAM	10/09/2024 / SAM	V14547

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	100724	11/07/2024	10/14/2024 / SAM	10/09/2024 / SAM	V14548

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



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**

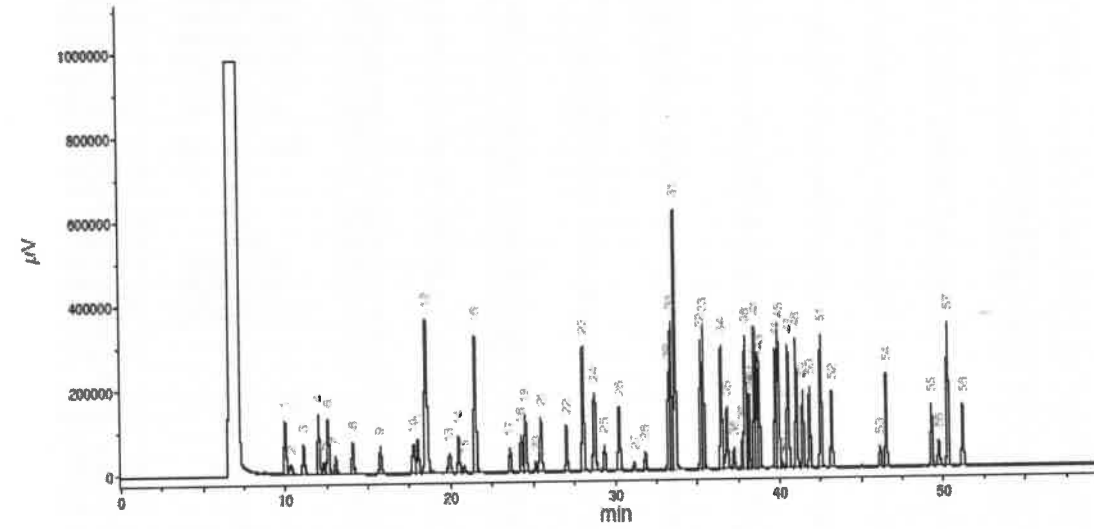
		021624
Formulated By:	Prashant Chauhan	DATE
		021624
Reviewed By:	Pedro L. Rentes	DATE

Compound	(RM#)	Lot	Di.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information			
														(Solvent Safety Info. On Attached pg.)			
														Part Number	Number	Factor	Vol. (mL)
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	67-66-3	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	2000.2	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-Dichloropropane	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 830mg/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	80 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	108-98-1	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	99-87-8	N/A	or-rat 4750mg/kg	
Tyrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	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	108-88-3	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	1999.6	22.9	95-63-6	N/A	or-rat 5g/kg	
Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-67-8	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	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg	
Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg	
2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg	
3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg	
4-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000											

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	37.99
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**

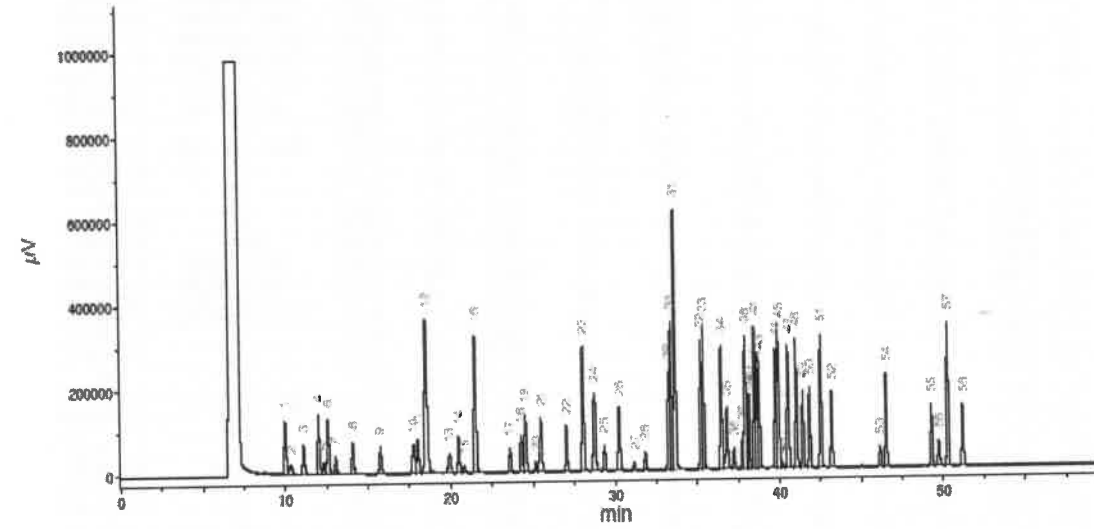
		021624
Formulated By:	Prashant Chauhan	DATE
		021624
Reviewed By:	Pedro L. Rentes	DATE

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 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	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	74-85-3	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) (final)	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	96-12-6	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	107-08-2	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	2000.4	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	N/A
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	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	106-98-3	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-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-57-8	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 1063mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7		

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-Hitroprene	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	36.80
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:
Refrigerate (4 °C)

Nominal Concentration (µg/mL):
Varied

NIST Test ID#:
6UTB

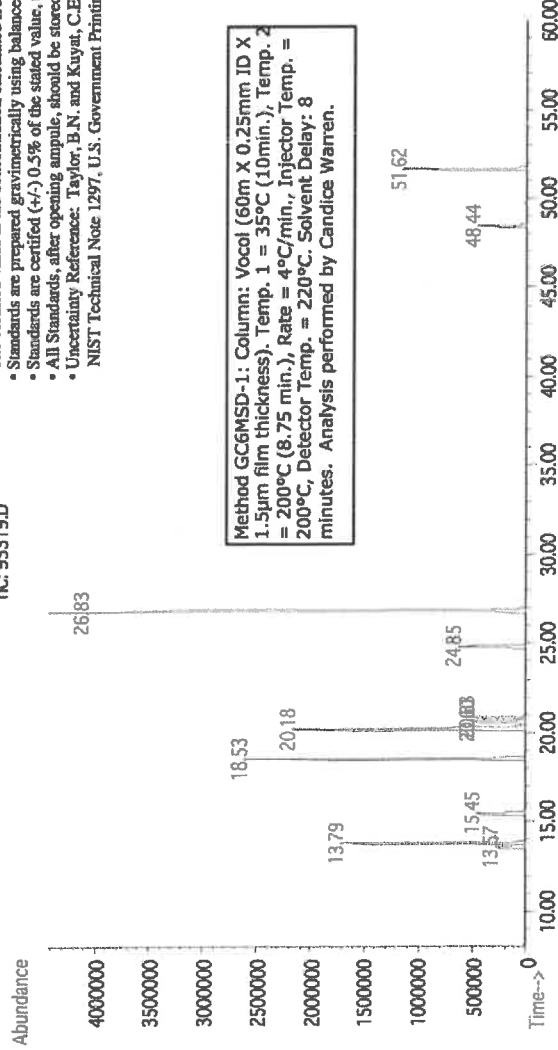
Weight(s) shown below were combined and diluted to (mL):

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.)	CAS#	OSHA PEL (TWA)
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01015	1.01030	10001.5	40.5	107-13-1	N/A	orl-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A	orl-rat 2870mg/kg
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 12705mg/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 8470mg/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-mus 5700mg/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-gpg 4870mg/kg
7. Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A	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	orl-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A	orl-rat 38mg/kg
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 1650mg/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	orl-rat 6408mg/kg

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
Section II - Hazards Identification		Date Prepared/Revised	
		January 1, 2023	

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:	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	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	Respiratory protection
Personal protective equipment	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			

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 - 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 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)
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 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.



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

95319
032922
Revised Additions Mix
11 components

Solvent(s):
Methanol
Lot#
EC592-US

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

032925
Refrigerate (4 °C)
Varied
6UTB

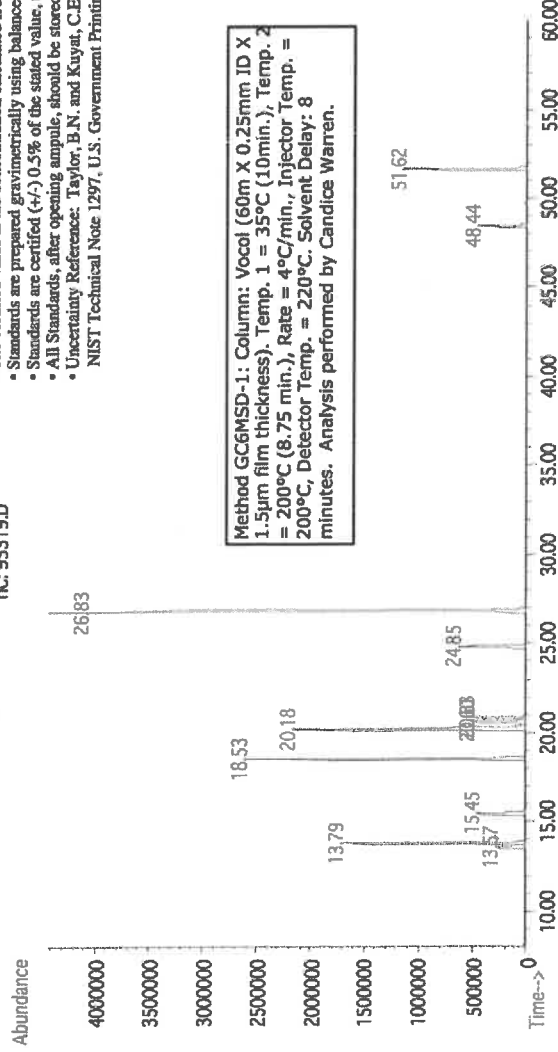
Weight(s) shown below were combined and diluted to (mL):

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/m ³ /H)
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 /H)
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 /H)(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 /H)(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 /H)
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	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:	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

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 - 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 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
Proper shipping name: Methanol
UN number: 1230 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: 91980
Lot Number: 100724
Description: Acrolein

Solvent(s): Water
Lot# 072324Q

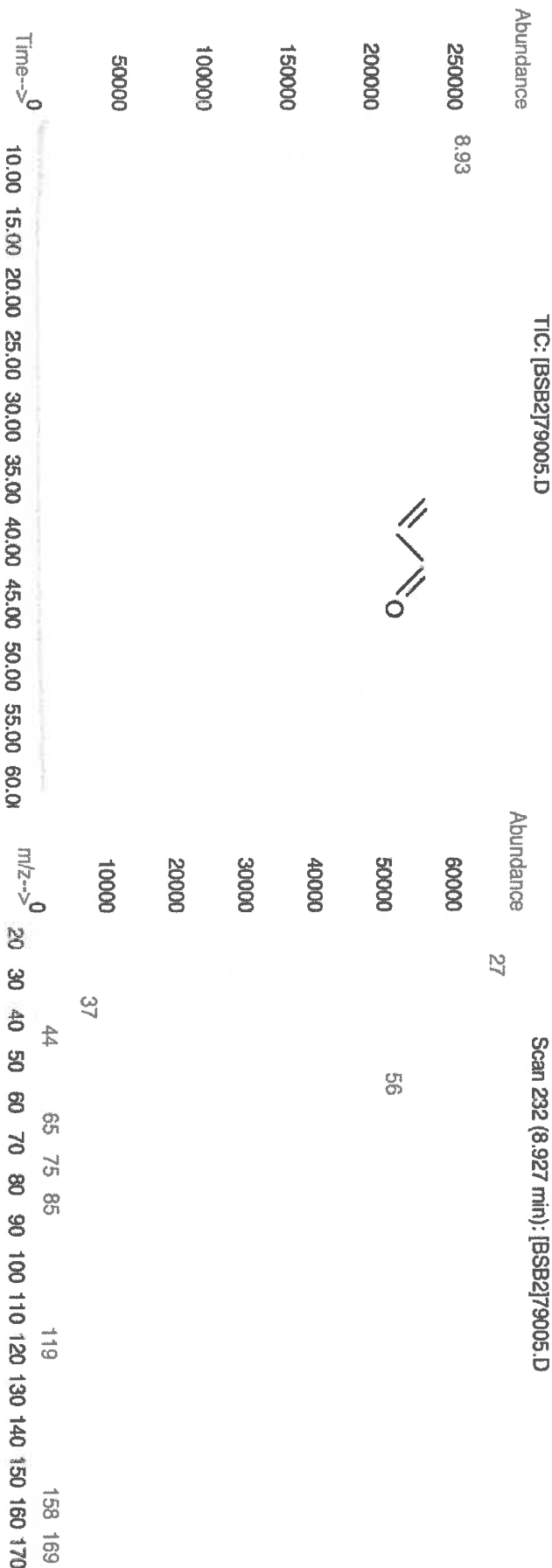
Formulated By:	Lawrence Barry
DATE	100724
Reviewed By:	Pedro L. Rentas
DATE	100724

Expiration Date: 110724
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 20.0
Balance Uncertainty: 5E-05
Flask Uncertainty: 0.002

SDS Information
(Solvent Safety Info. On Attached pg.)

1. Acrolein 5 103755R02H 5000 97 0.5 0.10307 0.10329 5010.4 51.9 107-02-8 0.1 ppm oil-rat 46mg/kg

Method: GC/MS/MS-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas, **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately.
Long term storage is not recommended. Please contact our technical department if further information is required.



- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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 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)

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.
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

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: 100724
Description: Acrolein

Solvent(s): Water
Lot# 072324Q

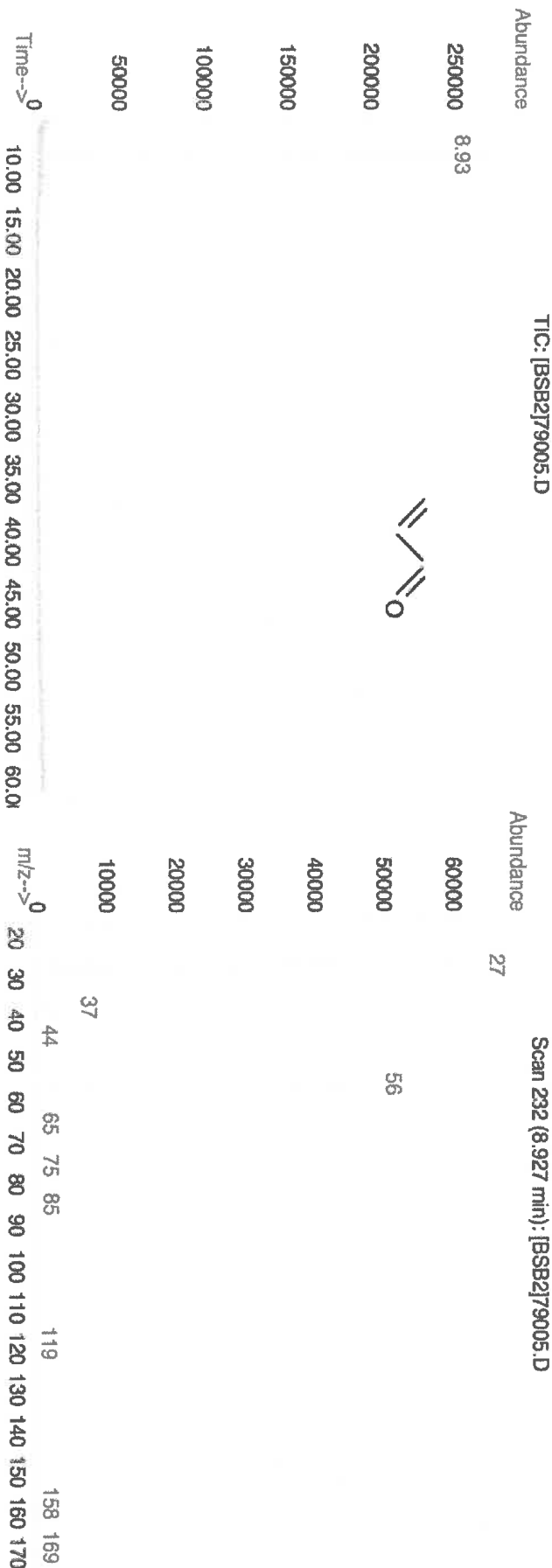
Formulated By: Lawrence Barry	100724 DATE
Reviewed By: Pedro L. Rentas	100724 DATE

Expiration Date: 11/07/24
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 20.0
Balance Uncertainty: 5E-05
Flask Uncertainty: 0.002

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)	CAS#	SDS Information	
											(Solvent Safety Info. On Attached pg.)	(SHA PEL (TWA)) LD50

1. Acrolein	5	103755R02H	5000	97	0.5	0.10307	0.10329	5010.4	51.9	107-02-8	0.1 ppm	01-rat 46mg/kg

Method: GC/MS/MS-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas, **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately.
Long term storage is not recommended. Please contact our technical department if further information is required.



- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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 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)

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.
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

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: 100724
Description: Acrolein

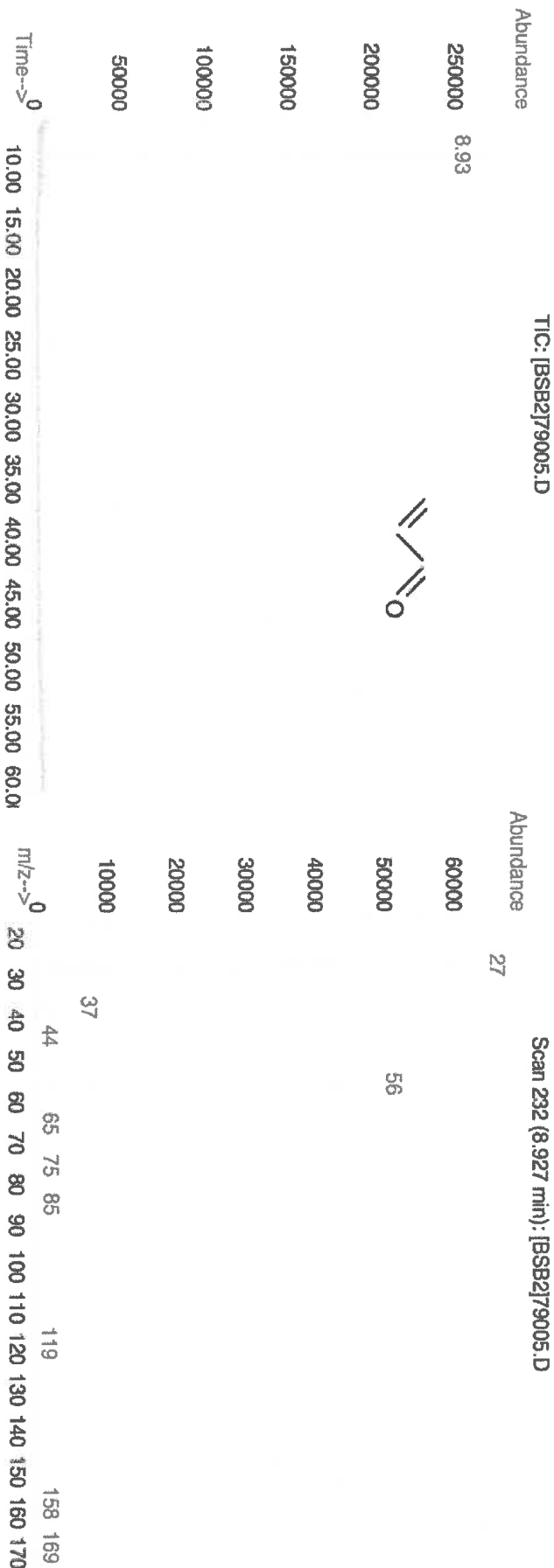
Solvent(s): Water
Lot# 072324Q

Formulated By: Lawrence Barry	100724 DATE
Reviewed By: Pedro L. Rentas	100724 DATE

Expiration Date: 11/07/24
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 20.0
SE-05 Balance Uncertainty 0.002 **Flask Uncertainty**

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (++) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.10307	0.10329	5010.4	51.9	107-02-8	0.1 ppm	or-rat 46mg/kg

Method: GC/MS/MS-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas, **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately.
Long term storage is not recommended. Please contact our technical department if further information is required.



- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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 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)

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.
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

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: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol
Lot# EA899-US

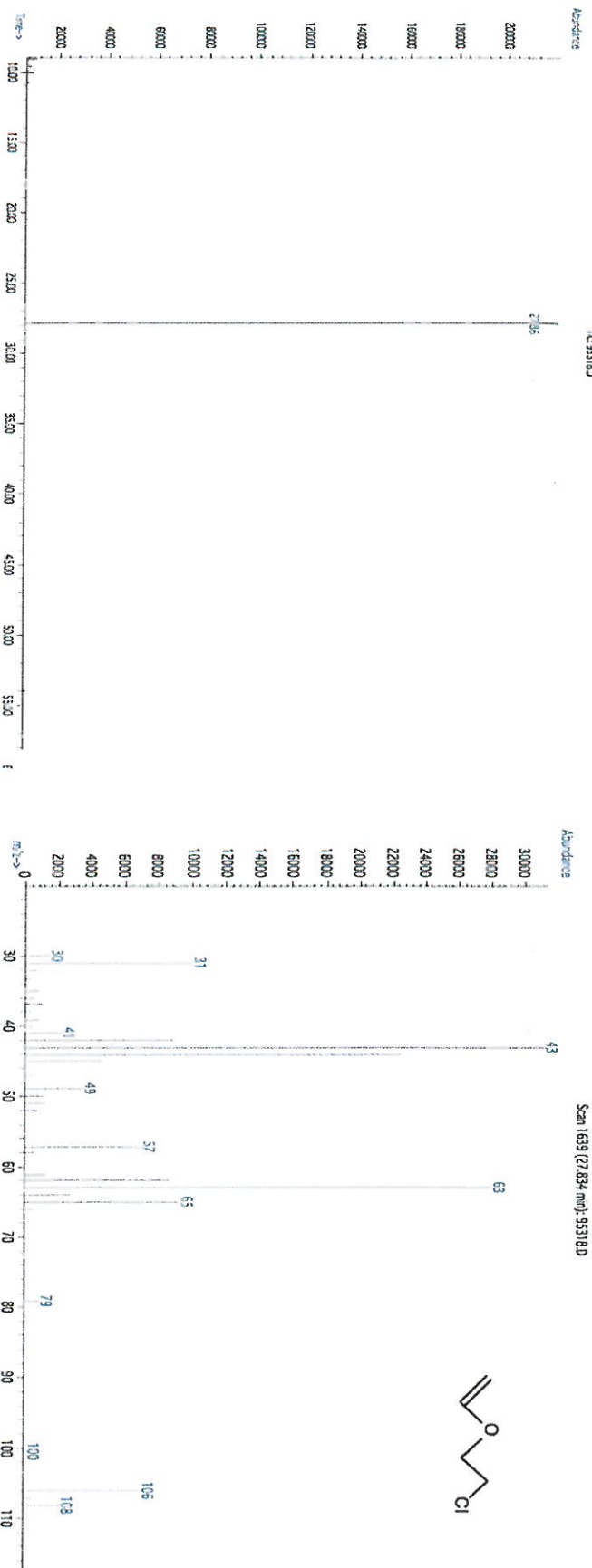
Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 30.0
5E-05 Balance Uncertainty
0.0003 Flask Uncertainty

Formulated By:	Benson Chan	121321
Reviewed By:	Pedro L. Rentes	121321
		DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50

1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.30320	0.30411	10030.2	40.7	110-75-8	N/A		or rat 250mg/kg

Method: GC/MSD-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).



CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol
Lot# EA899-US

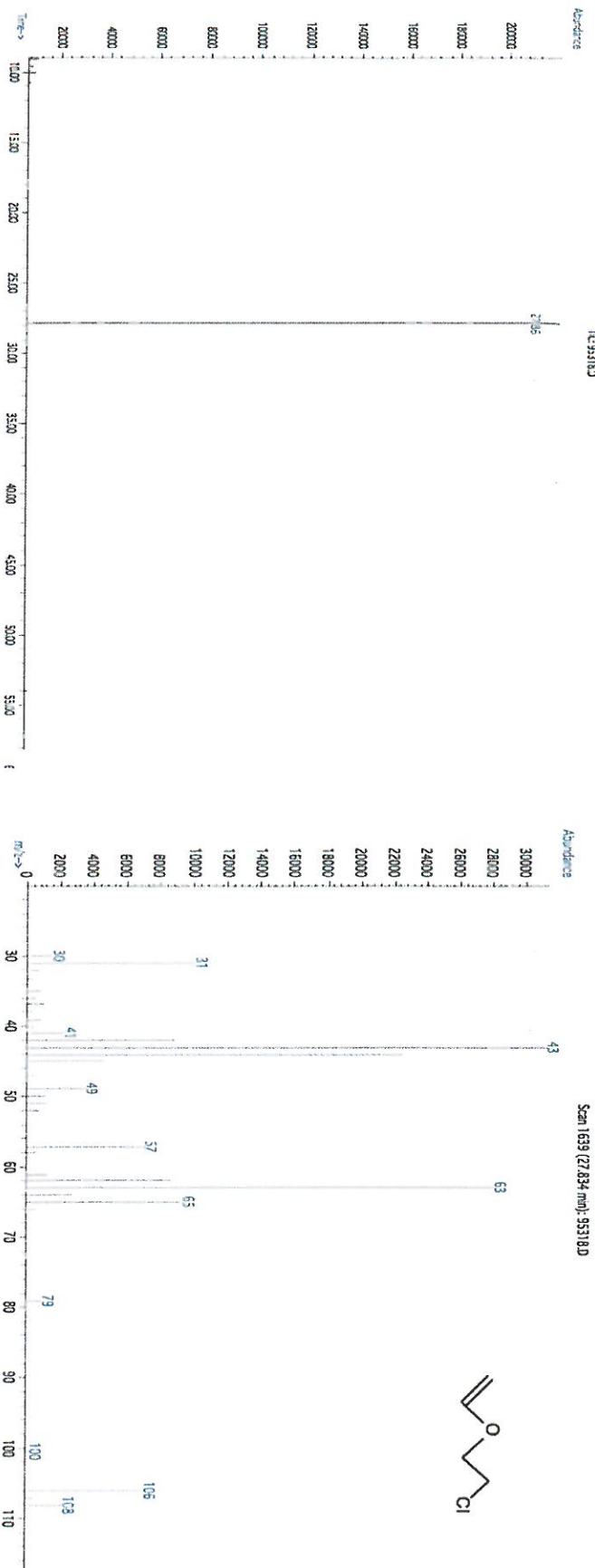
Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 30.0
5E-05 Balance Uncertainty
0.0003 Flask Uncertainty

Formulated By:	Benson Chan	121321
DATE		
Reviewed By:	Pedro L. Rentes	121321
DATE		

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50

1. 2-Chloroethyl vinyl ether 74 MKCD0033 10000 99 0.2 0.30320 0.30411 10030.2 40.7 110-75-8 N/A or-rat 250mg/kg

Method: GC/MSD-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).



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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. : 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)	50,126.0 µg/mL	+/-	293.4988	µg/mL	Gravimetric
	CAS # 75-65-0		+/-	1,073.7654	µg/mL	Unstressed
	Purity 99%		+/-	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:

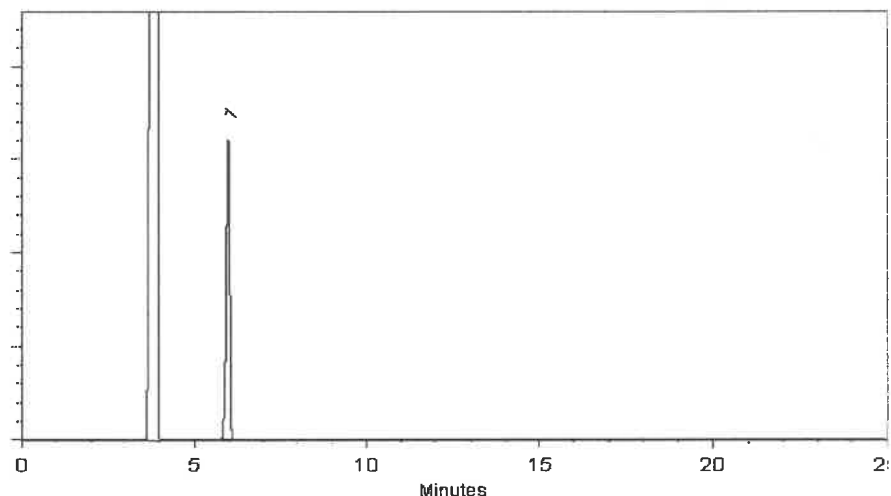
200°C

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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

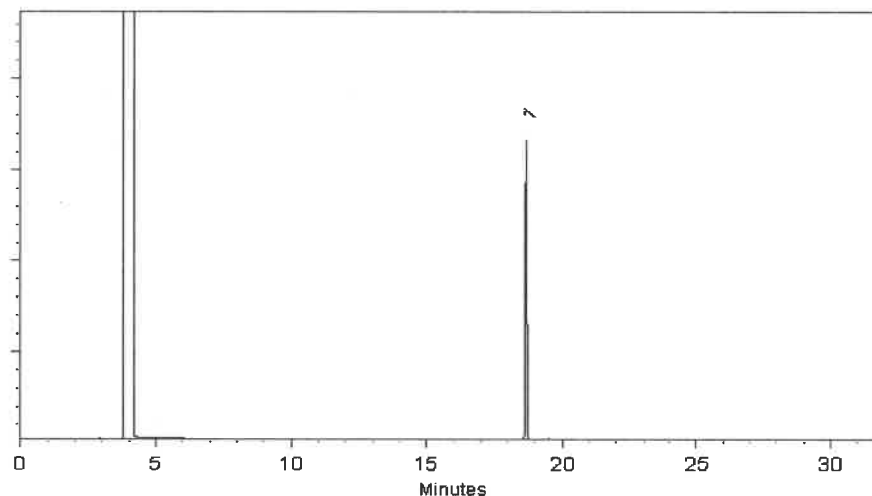
FID

Split Vent:

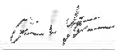
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022

Balance Serial # B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

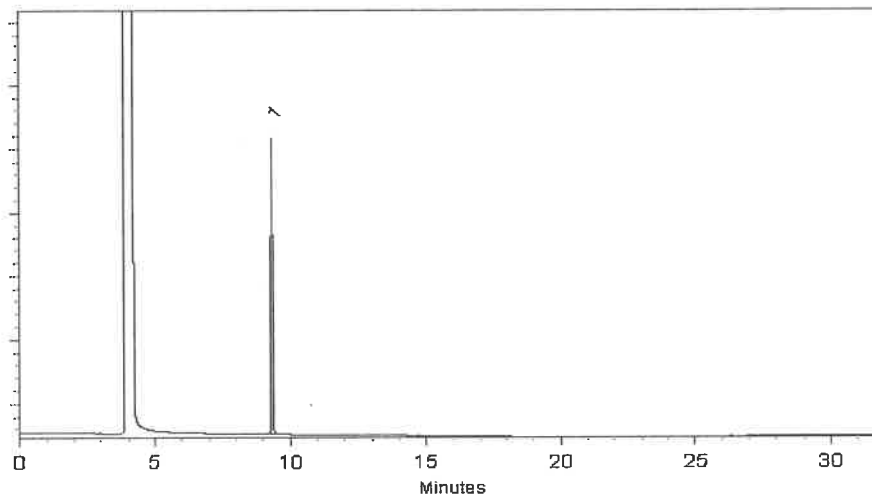
FID

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:

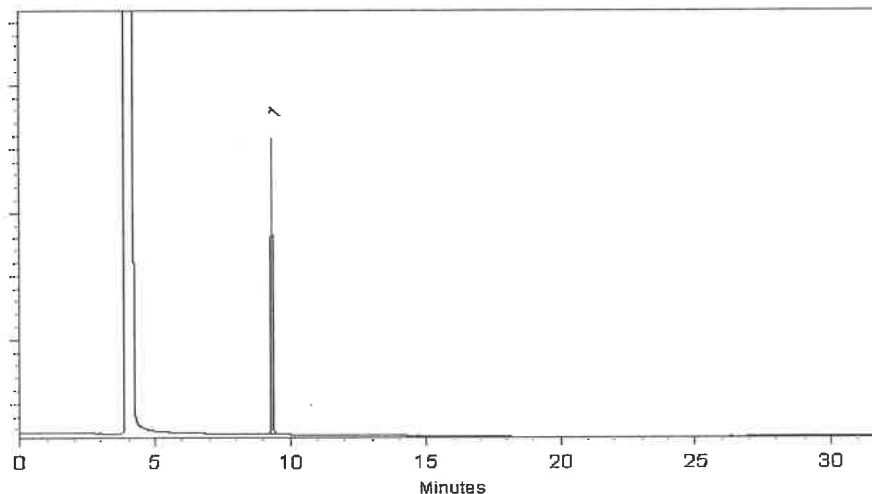
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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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. : 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:

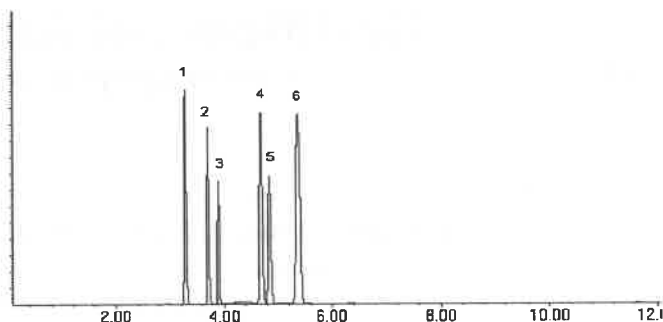
MSD

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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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:

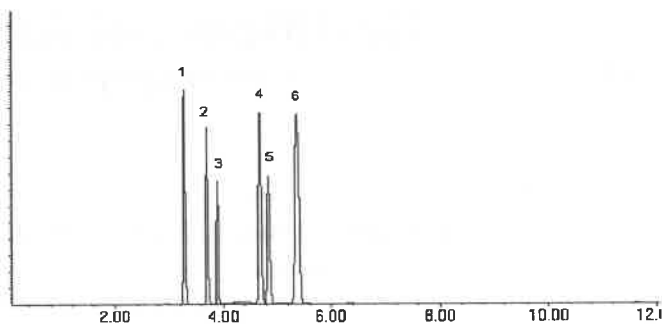
MSD

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:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

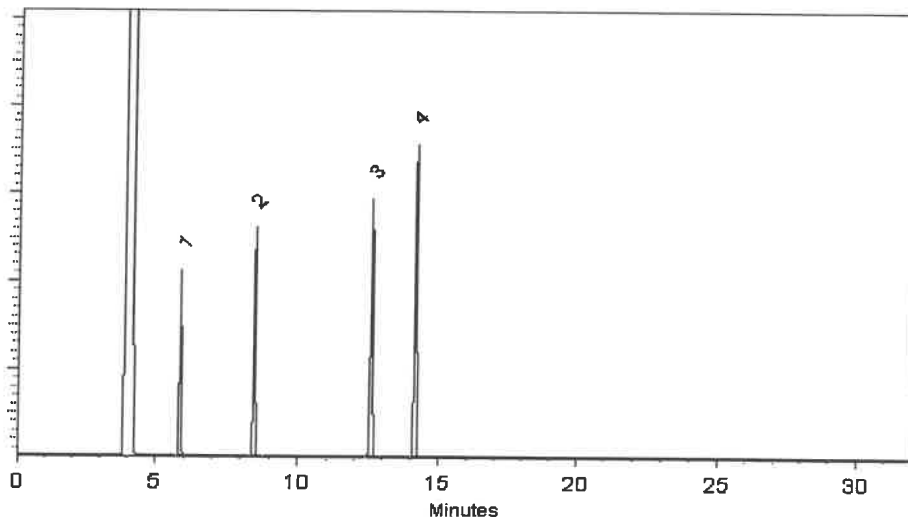
FID

Split Vent:

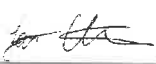
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

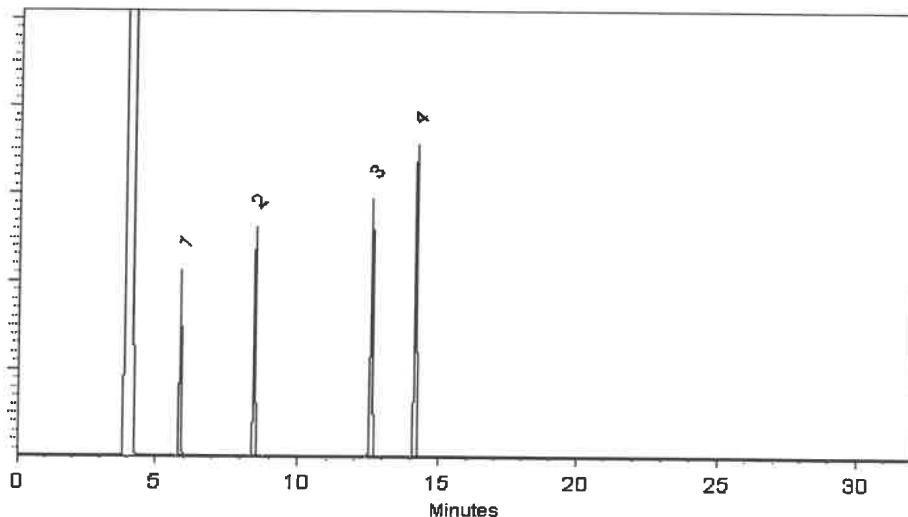
FID

Split Vent:

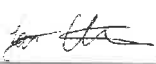
40 ml/min

Inj. Vol

1µl



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Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

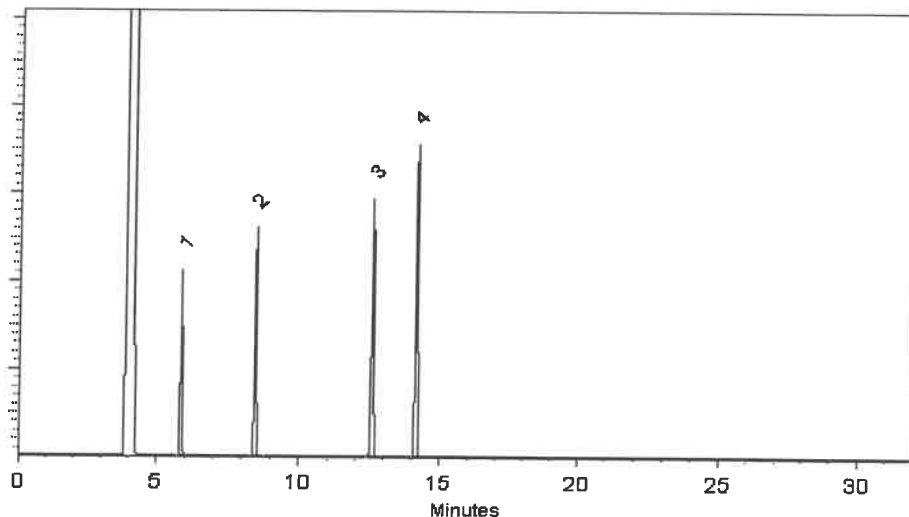
FID

Split Vent:

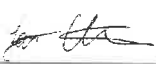
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- 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

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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:

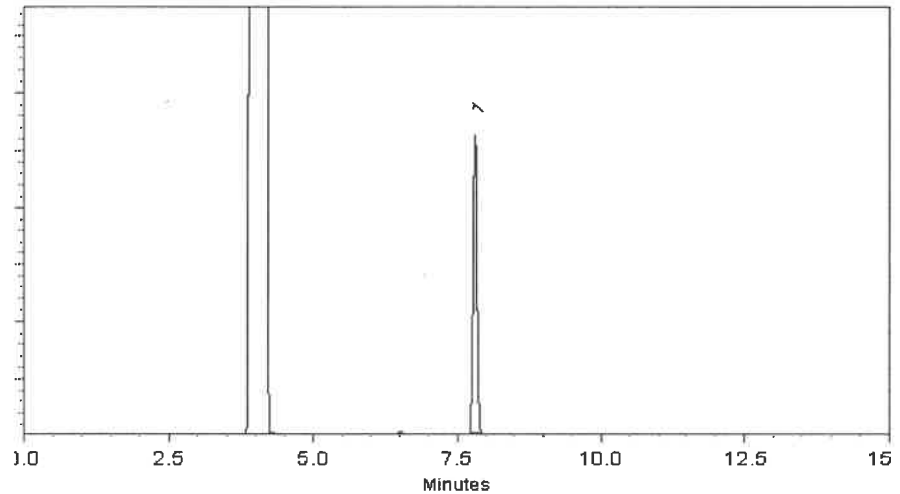
FID

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
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/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
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Fax: 1-814-353-1309

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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:

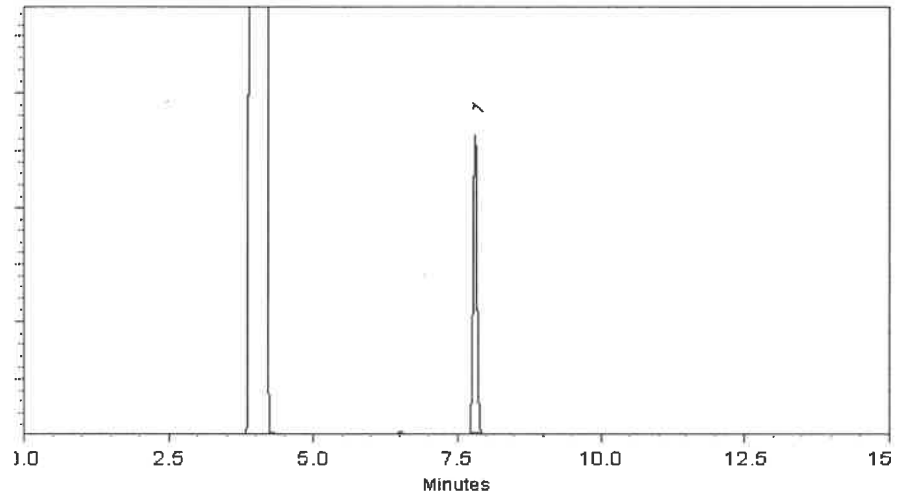
FID

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/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

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Manufacturing Notes:

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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. : 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:

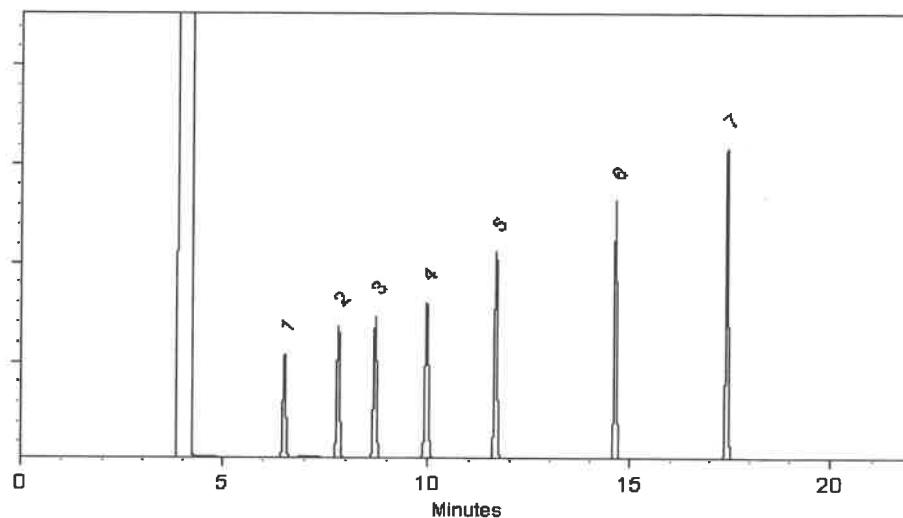
FID

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:

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- 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.

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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
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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:

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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:

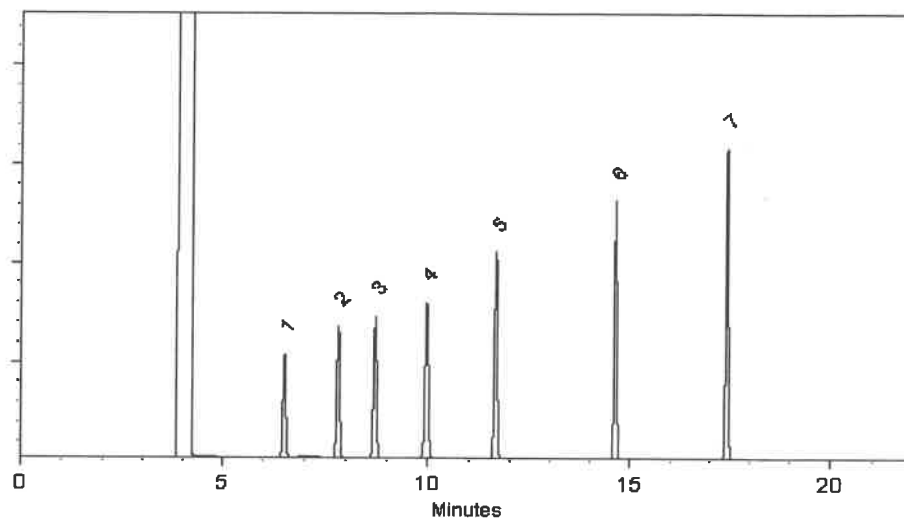
FID

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:

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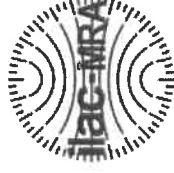
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Bellefonte, PA 16823-8812
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CERTIFIED REFERENCE MATERIAL

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:

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Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
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Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (µeq/g)	≤ 0.3	0.2
Titration Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

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
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Certificate of Analysis

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Titration Acid (μeq/g)	≤ 0.3	0.2
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Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092

(908) 789-8900 Fax: (908) 78-8922

www.chemtech.net

Chemtech Project Number:

P4665/66

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-189

PROJECT MANAGER: Ernie Wu

E-MAIL: ernie.wu@tetrattech.com

PHONE: 757-466-4901

FAX: 757-461-4148

BILLING INFORMATION

BILL TO: SEE CONTRACT

PO#

ADDRESS:

CITY:

STATE: ZIP:

ATTENTION:

PHONE:

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

ANALYSIS

VOC(SW846-8260B)

1,4 Dioxane (8270 SIM)

1

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8

9

PRESERVATIVES

COMMENTS

CHEMTECH
SAMPLE
IDPROJECT
SAMPLE IDENTIFICATIONSAMPLE
MATRIXSAMPLE
TYPESAMPLE
COLLECTION

of Bottles

COMP

GRAB

DATE

TIME

A

1

2

3

4

5

6

7

8

9

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

1.	BP-VPB-190-TB-20241029	QA		X	10/29/24	8:00	2	2											Trip Blank
2.	VPB190-HYD-20241030	QA		X	10/30/24	9:15	5	2	1	2									Hydrant Sample
3.	BP-VPB-190-EB-20241030	QA		X	10/30/24	10:25	2	2											Equipment Blank
4.	BP-VPB-190-GW-538-540	AQ		X	10/29/24	10:40	2	2											
5.	BP-VPB-190-GW-558-560	AQ		X	10/29/24	13:30	5	4	1										Collected extra vials due to high particulate matter
6.	BP-VPB-190-GW-583-585	AQ		X	10/30/24	12:05	4	4											Collected extra vials due to high particulate matter
7.	BP-VPB-190-GW-598-600	AQ		X	10/30/24	14:15	3	2	1										
8.																			
9.																			
10.																			

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER

DATE/TIME

RECEIVED BY

1. *Paul Melina*10/31/24
15:301. *[Signature]*

RELINQUISHED BY

DATE/TIME

RECEIVED BY

2. *[Signature]*

10-31-24

2. *[Signature]*

RELINQUISHED BY

DATE/TIME

RECEIVED BY

3. *[Signature]*

10-31-24

3. *[Signature]*

Conditions of bottles or coolers at receipt:

☐ Compliant☐ Non Compliant☐ Cooler Temp☐ Ice in Cooler?:

MeOH extraction requires an additional 4oz. Jar for percent solid

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)

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 : P4665 TETR06

Order Date : 10/31/2024 3:52:00 PM

Project Mgr :

Client Name : Tetra Tech NUS, Inc.

Project Name : CTO WE13

Report Type : Level 4

Client Contact : Ernie Wu

Receive DateTime : 10/31/2024 12:00:00 AM

EDD Type : ADAPT

Invoice Name : Tetra Tech NUS, Inc.

Purchase Order :

Hard Copy Date :

Invoice Contact : Ernie Wu

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4665-01	BP-VPB-190-TB-20241029	Water	10/29/2024	08:00					
					VOCMS Group1		8260-Low	2 Bus. Days	
P4665-02	VPB190-HYD-20241030	Water	10/30/2024	09:15					
					VOCMS Group1		8260-Low	2 Bus. Days	
P4665-03	BP-VPB-190-EB-20241030	Water	10/30/2024	10:25					
					VOCMS Group1		8260-Low	2 Bus. Days	
P4665-04	BP-VPB-190-GW-538-540	Water	10/30/2024	10:40					
					VOCMS Group1		8260-Low	2 Bus. Days	
P4665-05	BP-VPB-190-GW-558-560	Water	10/30/2024	13:30					
					VOCMS Group1		8260-Low	2 Bus. Days	
P4665-06	BP-VPB-190-GW-583-585	Water	10/30/2024	12:05					
					VOCMS Group1		8260-Low	2 Bus. Days	
P4665-07	BP-VPB-190-GW-598-600	Water	10/30/2024	14:15					
					VOCMS Group1		8260-Low	2 Bus. Days	

LOGIN REPORT/SAMPLE TRANSFER

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Hard Copy Date :

Invoice Contact : Ernie Wu

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinquished By :

Date / Time :

11-1-24 0915

Received By :

Date / Time :

11/1/24 0915

Storage Area : VOA Refridgerator Room