

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
 Data File : VN084511.D
 Acq On : 25 Oct 2024 13:15
 Operator : JC\MD
 Sample : P4528-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 241023062-05-TRIP-BLANK

Quant Time: Oct 26 05:28:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:22:28 2024
 Response via : Initial Calibration

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

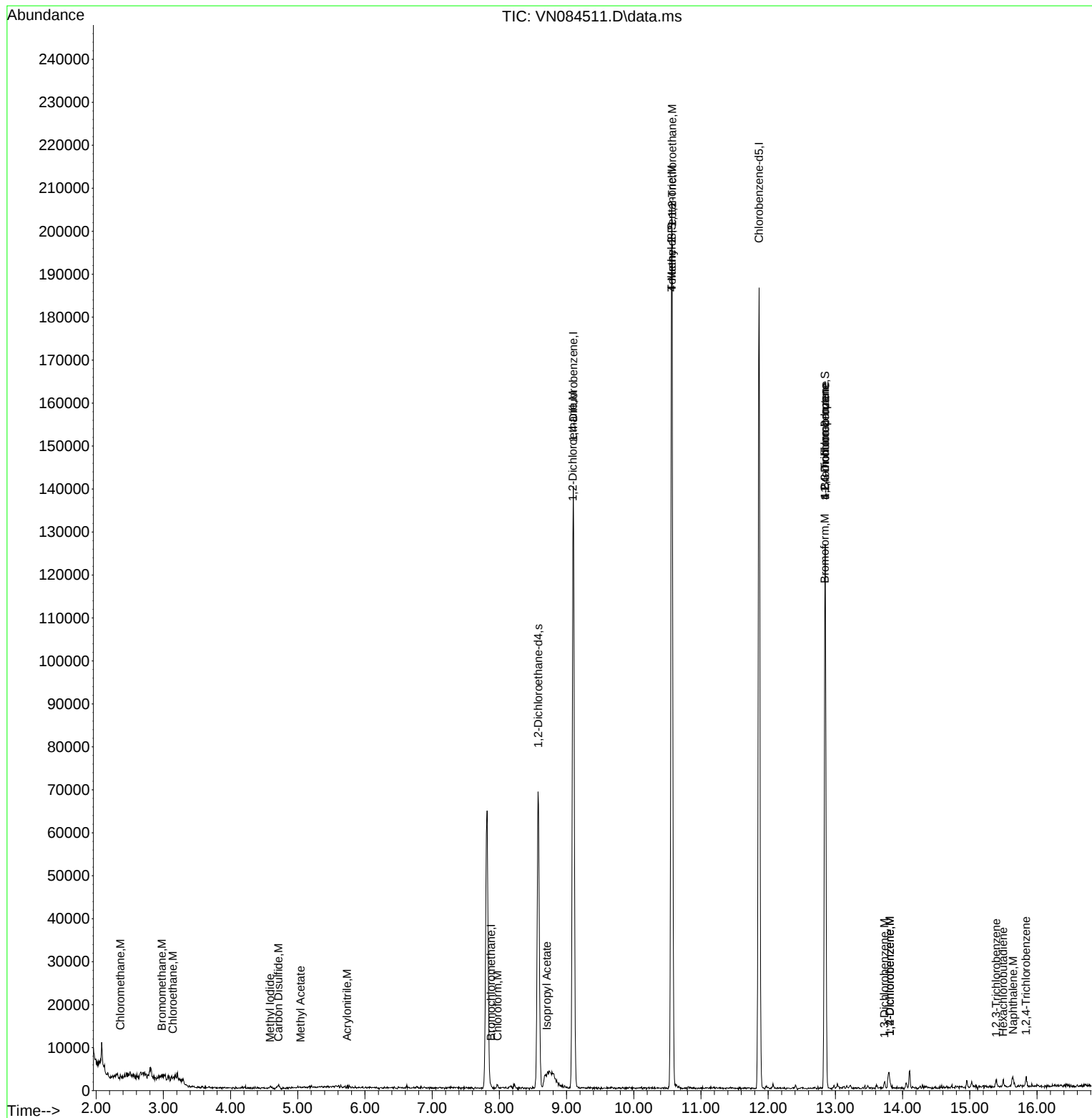
Internal Standards						
1) Bromochloromethane	7.877	128	61	30.000	ug/l	# 0.06
28) 1,4-Difluorobenzene	9.100	114	119946	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	106273	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	58572	11926.550	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 39755.167%#	
60) 4-Bromofluorobenzene	12.847	95	44632	25.447	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 84.833%	
63) Toluene-d8	10.565	98	142449	28.934	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 96.433%	
Target Compounds						Qvalue
3) Chloromethane	2.359	50	243	57.336	ug/l	# 42
5) Bromomethane	2.977	94	344	124.927	ug/l	# 2
6) Chloroethane	3.142	64	266	97.624	ug/l	# 40
11) Methyl Iodide	4.589	142	303	60.705	ug/l	# 38
12) Methyl Acetate	5.042	43	57	11.987	ug/l	# 51
14) Acrylonitrile	5.736	53	132	61.791	ug/l	# 46
16) Carbon Disulfide	4.712	76	1448	128.024	ug/l	# 75
25) Chloroform	7.971	83	649	84.361	ug/l	# 69
36) 1,2-Dichloroethane	9.094	62	4332	2.109	ug/l	# 75
44) Isopropyl Acetate	8.706	43	1089	0.322	ug/l	# 48
50) 1,1,2-Trichloroethane	10.571	97	4764	3.374	ug/l	# 1
56) Bromoform	12.841	173	270	0.244	ug/l	# 1
58) 4-Methyl-2-Pentanone	10.565	43	553	0.279	ug/l	# 1
72) 1,2,3-Trichloropropane	12.847	75	23305	13.941	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	23305	32.625	ug/l	# 12
83) 1,3-Dichlorobenzene	13.729	146	670	0.236	ug/l	93
84) 1,4-Dichlorobenzene	13.812	146	827	0.293	ug/l	88
87) 1,2-Dichlorobenzene	13.812	146	827	0.301	ug/l	88
89) 1,2,4-Trichlorobenzene	15.835	180	1006	0.704	ug/l	# 69
90) Hexachlorobutadiene	15.494	225	407	0.616	ug/l	79
91) Naphthalene	15.647	128	3028	0.626	ug/l	# 72
92) 1,2,3-Trichlorobenzene	15.394	180	909	0.636	ug/l	81

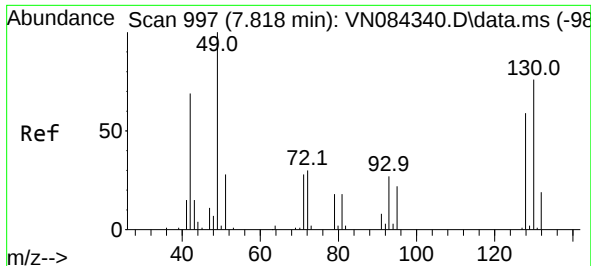
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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241023062-05-TRIP-BLANK

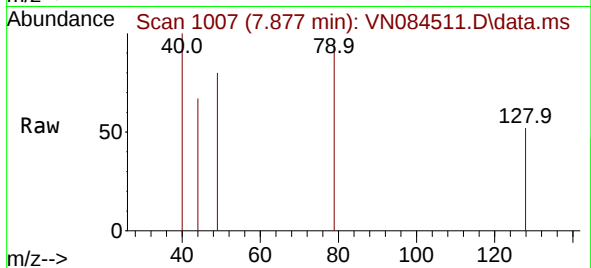
Quant Time: Oct 26 05:28:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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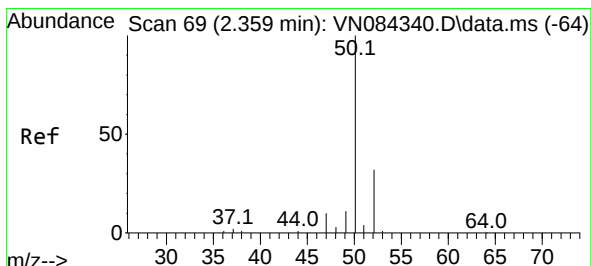
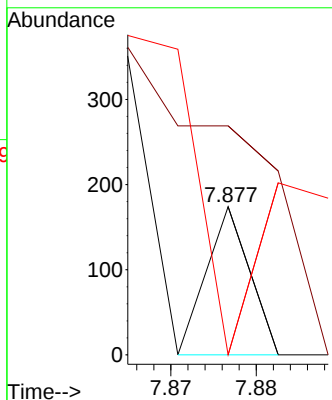
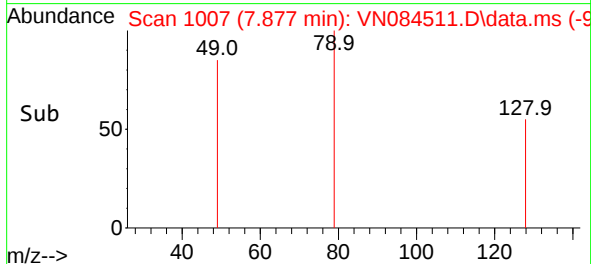


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.877 min Scan# 10
Delta R.T. 0.059 min
Lab File: VN084511.D
Acq: 25 Oct 2024 13:15

Instrument :
MSVOA_N
ClientSampleId :
241023062-05-TRIP-BLANK

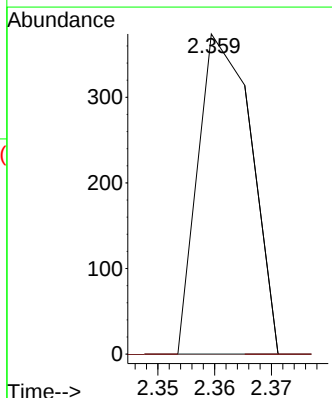
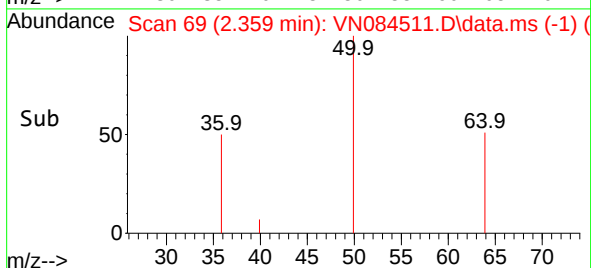
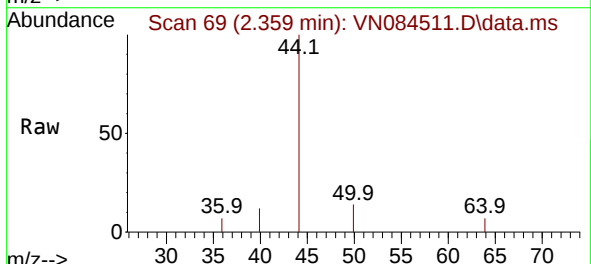


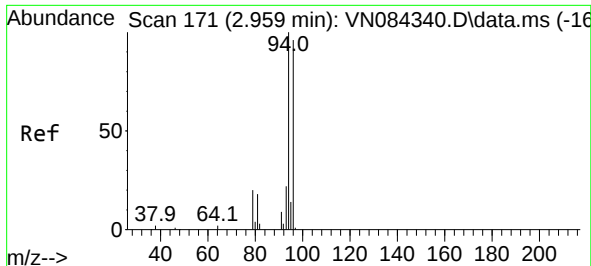
Tgt Ion:128 Resp: 61
Ion Ratio Lower Upper
128 100
49 0.0 0.0 430.0
130 223.0 0.0 329.8



#3
Chloromethane
Concen: 57.336 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN084511.D
Acq: 25 Oct 2024 13:15

Tgt Ion: 50 Resp: 243
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.6#

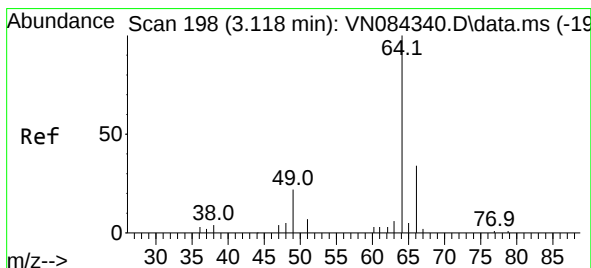
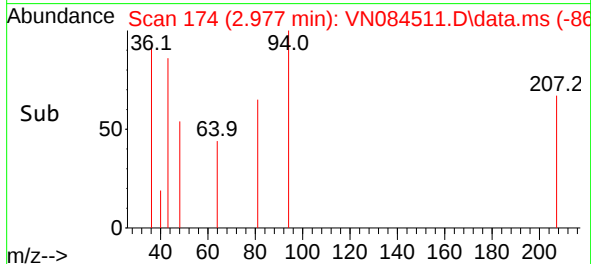
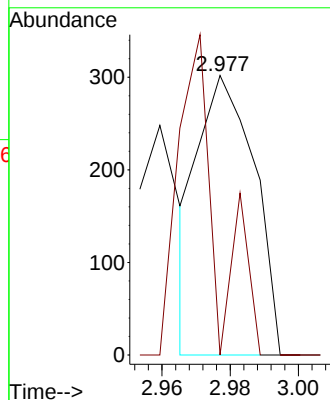
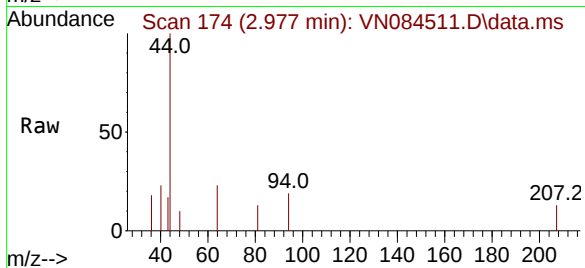




#5
Bromomethane
Concen: 124.927 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN084511.D
Acq: 25 Oct 2024 13:15

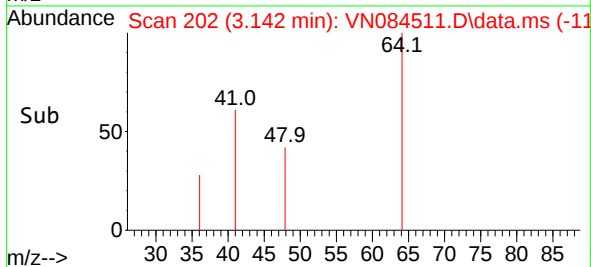
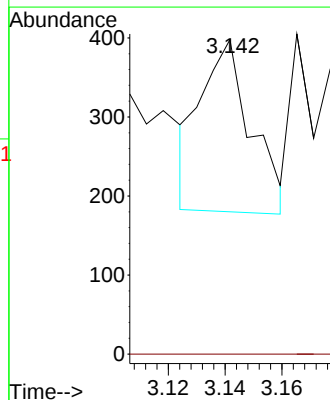
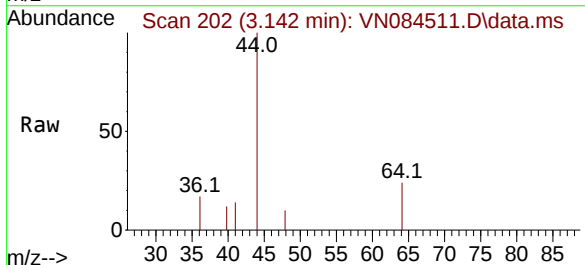
Instrument :
MSVOA_N
ClientSampleId :
241023062-05-TRIP-BLANK

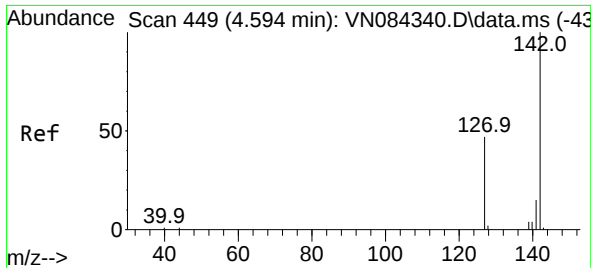
Tgt Ion: 94 Resp: 344
Ion Ratio Lower Upper
94 100
96 0.0 76.7 115.1#



#6
Chloroethane
Concen: 97.624 ug/l
RT: 3.142 min Scan# 202
Delta R.T. 0.024 min
Lab File: VN084511.D
Acq: 25 Oct 2024 13:15

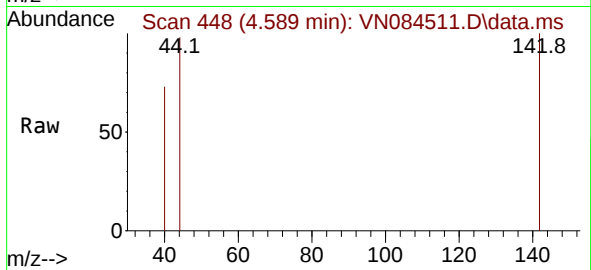
Tgt Ion: 64 Resp: 266
Ion Ratio Lower Upper
64 100
66 0.0 27.7 41.5#



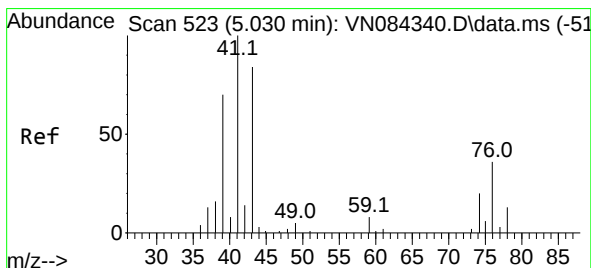
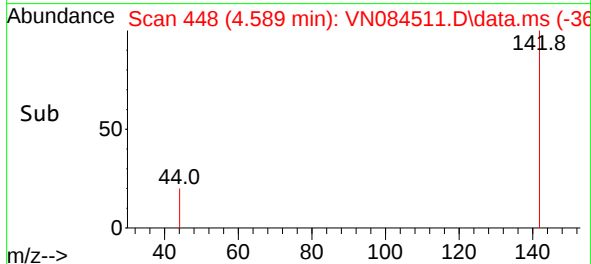
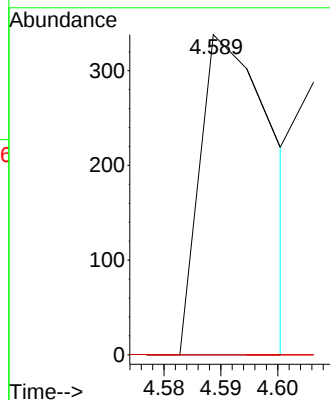


#11
Methyl Iodide
Concen: 60.705 ug/l
RT: 4.589 min Scan# 449
Delta R.T. -0.006 min
Lab File: VN084511.D
Acq: 25 Oct 2024 13:15

Instrument :
MSVOA_N
ClientSampleId :
241023062-05-TRIP-BLANK

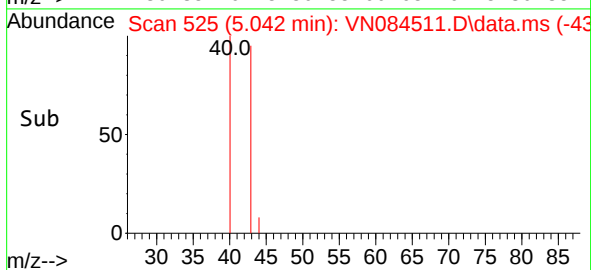
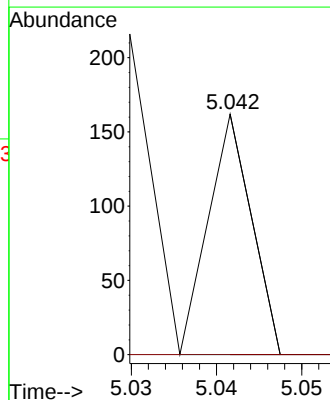
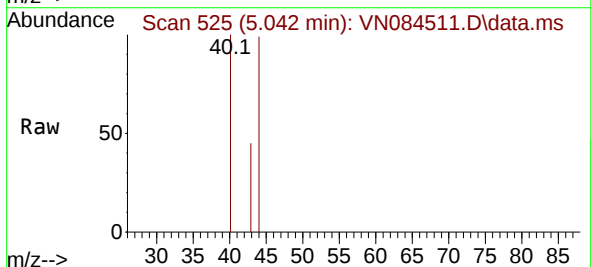


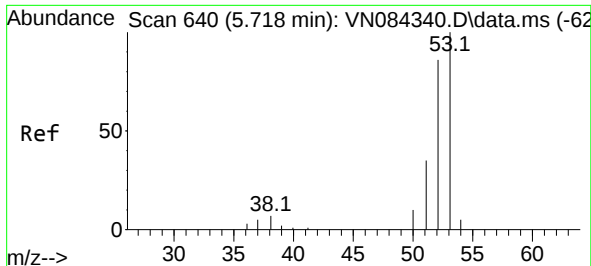
Tgt Ion:142 Resp: 303
Ion Ratio Lower Upper
142 100
127 0.0 23.8 71.4#
141 0.0 7.4 22.2#



#12
Methyl Acetate
Concen: 11.987 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.012 min
Lab File: VN084511.D
Acq: 25 Oct 2024 13:15

Tgt Ion: 43 Resp: 57
Ion Ratio Lower Upper
43 100
74 0.0 19.4 29.2#





#14

Acrylonitrile

Concen: 61.791 ug/l

RT: 5.736 min Scan# 64

Delta R.T. 0.018 min

Lab File: VN084511.D

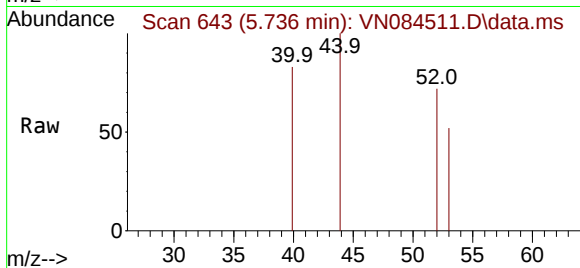
Acq: 25 Oct 2024 13:15

Instrument :

MSVOA_N

ClientSampleId :

241023062-05-TRIP-BLANK



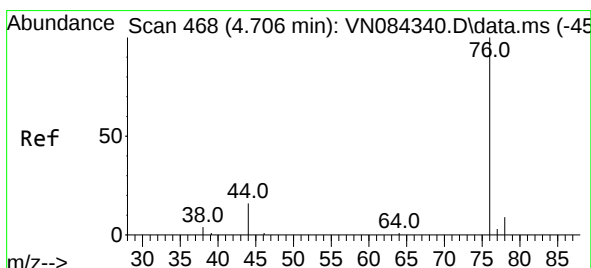
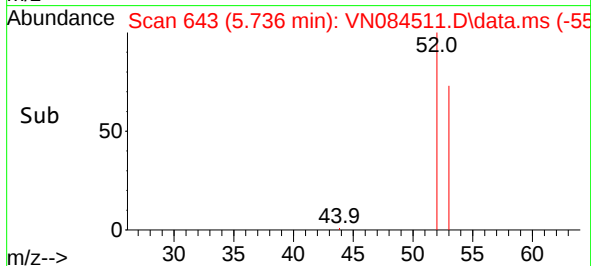
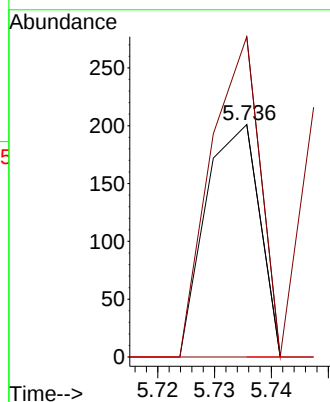
Tgt Ion: 53 Resp: 132

Ion Ratio Lower Upper

53 100

52 125.8 40.4 121.2#

51 0.0 17.8 53.4#



#16

Carbon Disulfide

Concen: 128.024 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.006 min

Lab File: VN084511.D

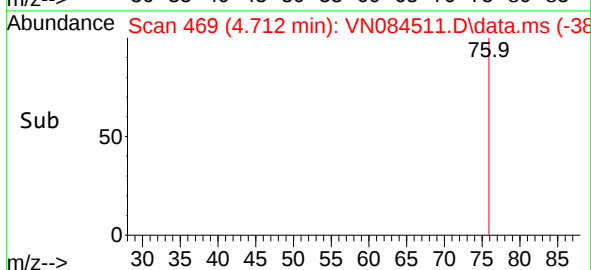
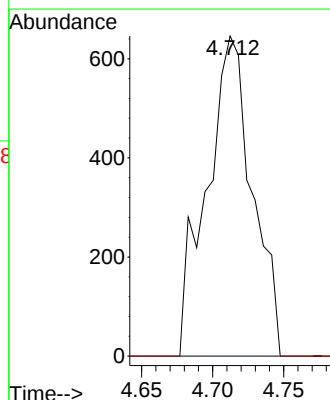
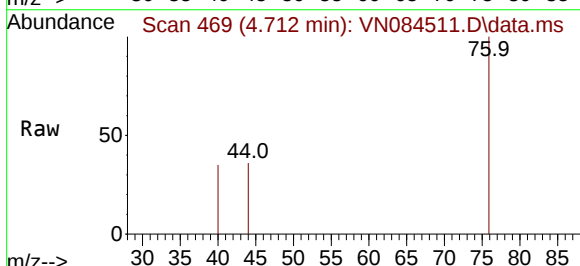
Acq: 25 Oct 2024 13:15

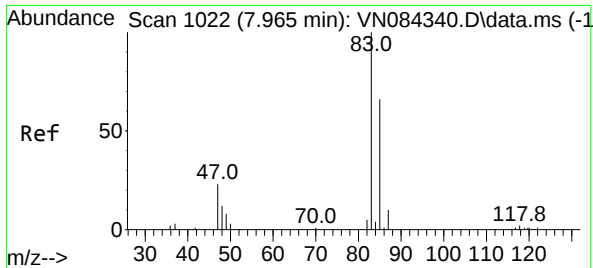
Tgt Ion: 76 Resp: 1448

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#





#25

Chloroform

Concen: 84.361 ug/l

RT: 7.971 min Scan# 1102

Delta R.T. 0.006 min

Lab File: VN084511.D

Acq: 25 Oct 2024 13:15

Instrument :

MSVOA_N

ClientSampleId :

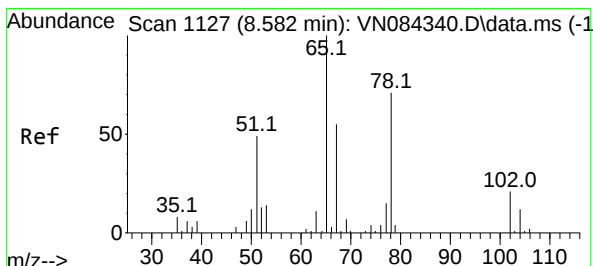
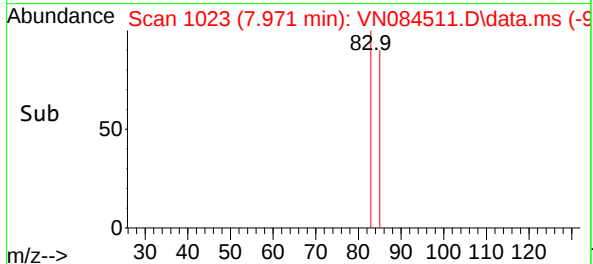
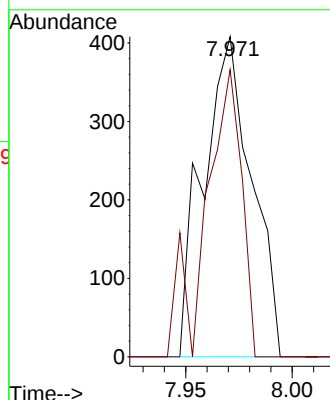
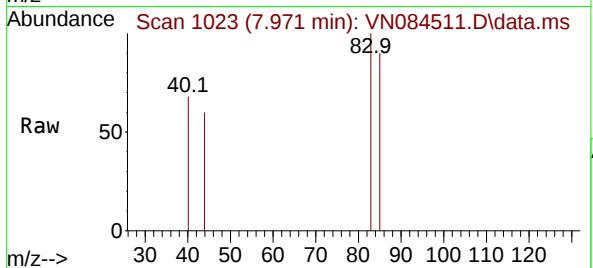
241023062-05-TRIP-BLANK

Tgt Ion: 83 Resp: 649

Ion Ratio Lower Upper

83 100

85 89.7 52.4 78.6#



#27

1,2-Dichloroethane-d4

Concen: 11926.550 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN084511.D

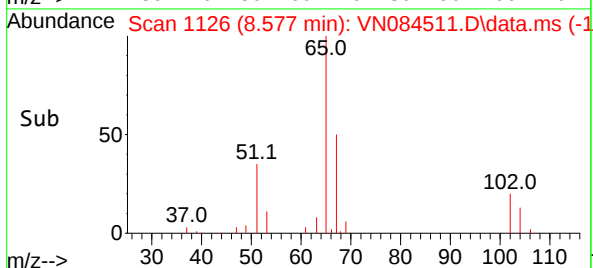
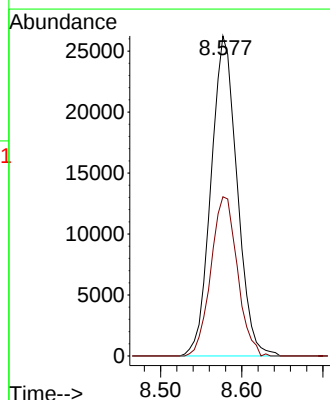
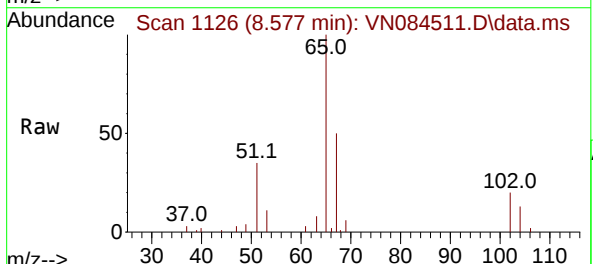
Acq: 25 Oct 2024 13:15

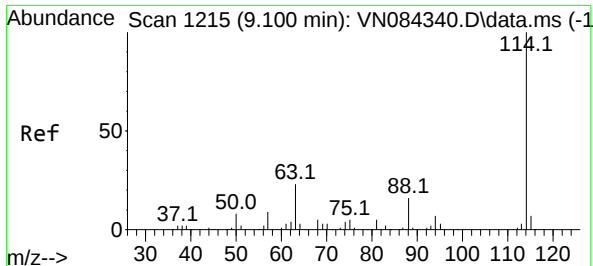
Tgt Ion: 65 Resp: 58572

Ion Ratio Lower Upper

65 100

67 50.3 41.5 62.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN084511.D

Acq: 25 Oct 2024 13:15

Instrument :

MSVOA_N

ClientSampleId :

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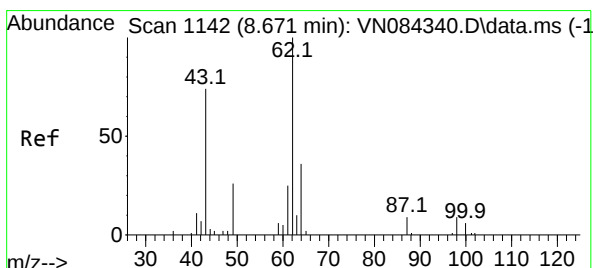
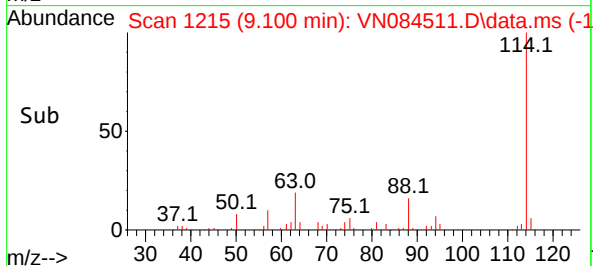
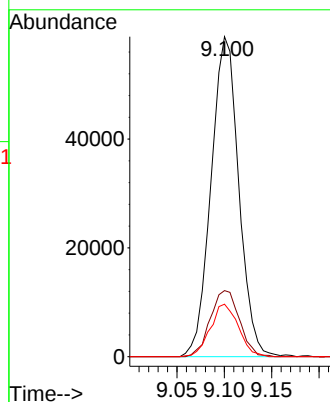
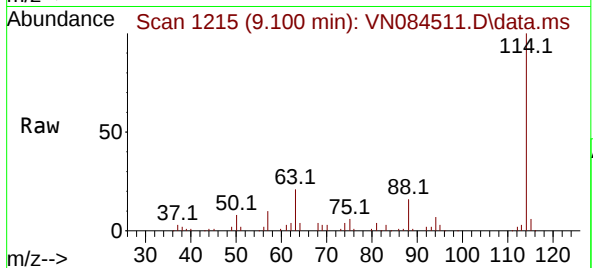
Tgt Ion:114 Resp: 119946

Ion Ratio Lower Upper

114 100

63 21.6 17.4 26.0

88 16.6 13.2 19.8



#36

1,2-Dichloroethane

Concen: 2.109 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. 0.424 min

Lab File: VN084511.D

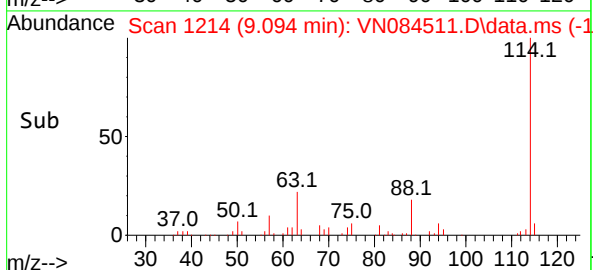
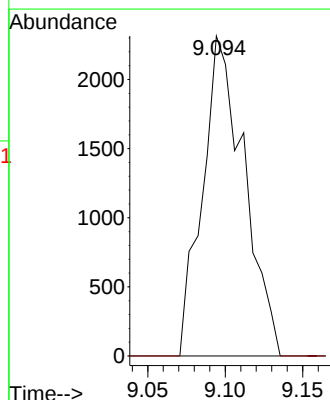
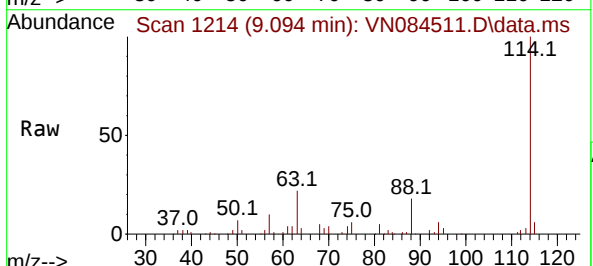
Acq: 25 Oct 2024 13:15

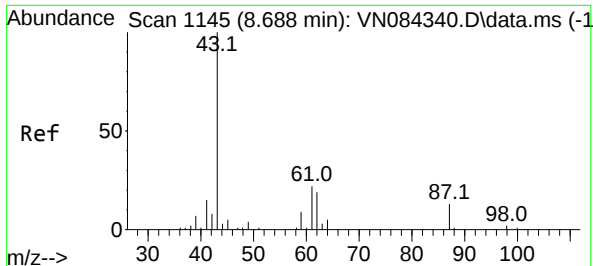
Tgt Ion: 62 Resp: 4332

Ion Ratio Lower Upper

62 100

98 0.0 7.3 10.9#

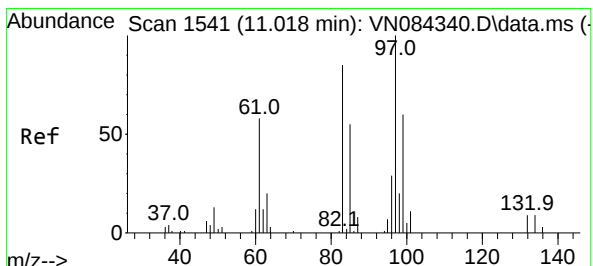
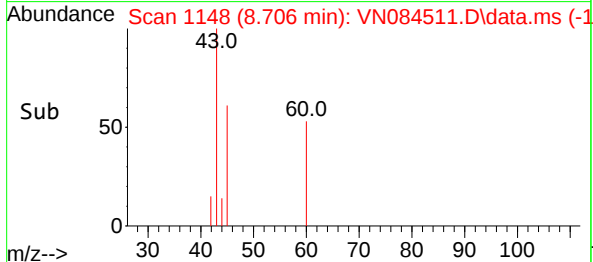
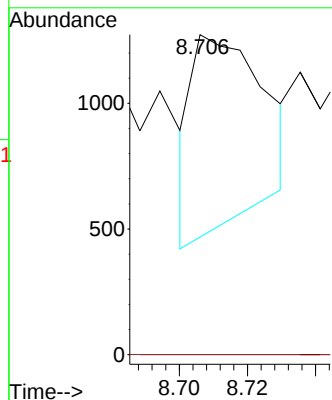
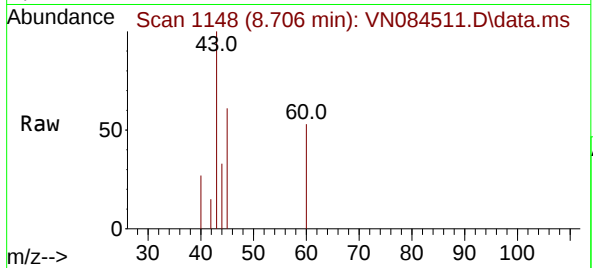




#44
Isopropyl Acetate
Concen: 0.322 ug/l
RT: 8.706 min Scan# 1145
Delta R.T. 0.018 min
Lab File: VN084511.D
Acq: 25 Oct 2024 13:15

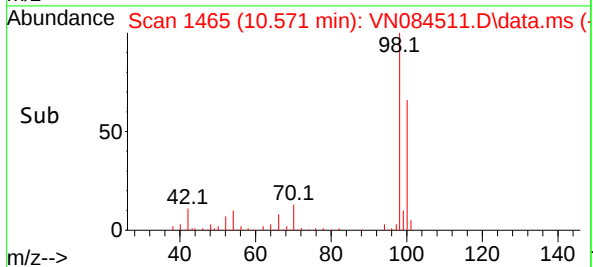
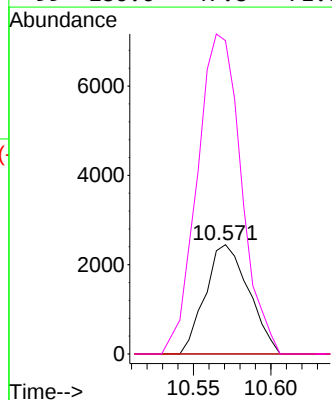
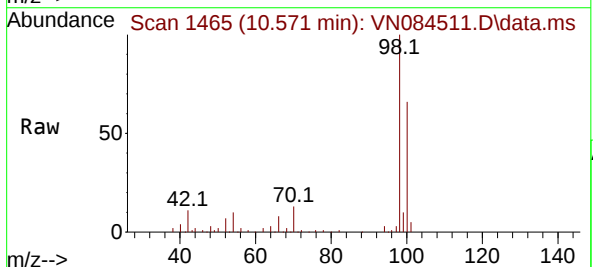
Instrument :
MSVOA_N
ClientSampleId :
241023062-05-TRIP-BLANK

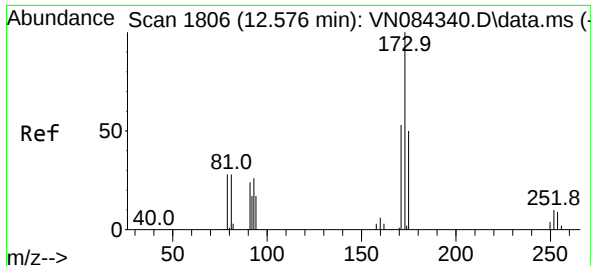
Tgt Ion: 43 Resp: 1089
Ion Ratio Lower Upper
43 100
61 0.0 21.4 32.2#



#50
1,1,2-Trichloroethane
Concen: 3.374 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.447 min
Lab File: VN084511.D
Acq: 25 Oct 2024 13:15

Tgt Ion: 97 Resp: 4764
Ion Ratio Lower Upper
97 100
83 0.0 67.8 101.8#
85 0.0 44.2 66.2#
99 286.6 47.8 71.8#

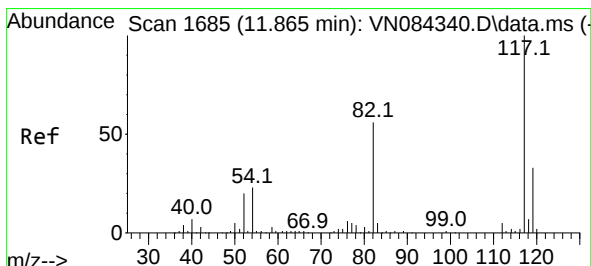
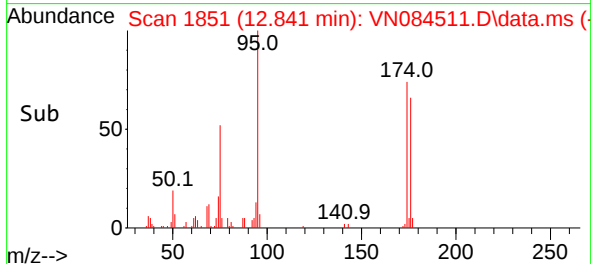
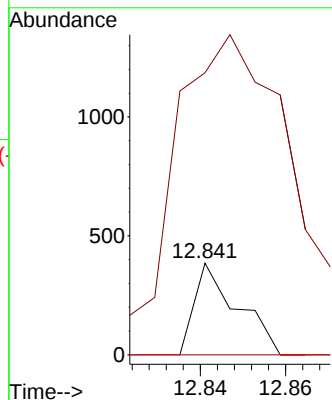
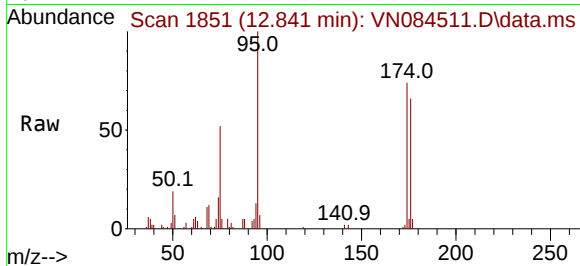




#56
Bromoform
Concen: 0.244 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN084511.D
Acq: 25 Oct 2024 13:15

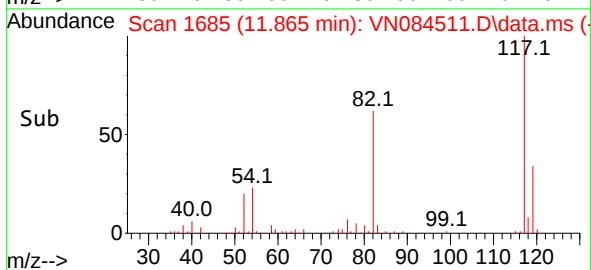
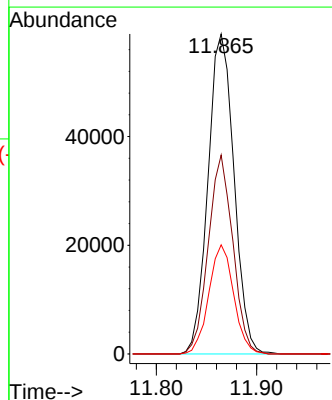
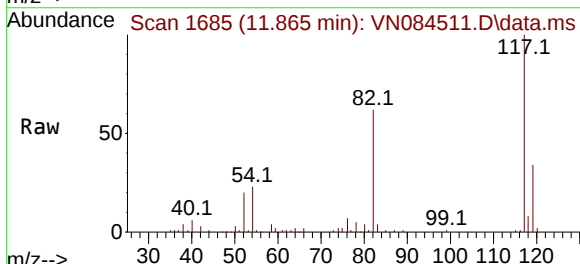
Instrument :
MSVOA_N
ClientSampleId :
241023062-05-TRIP-BLANK

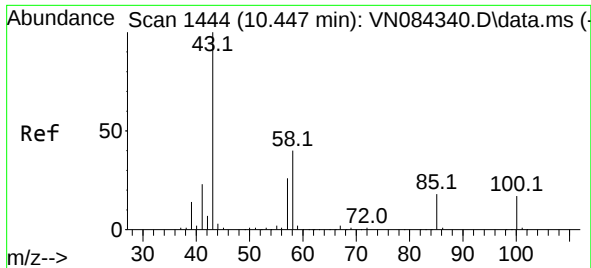
Tgt Ion:173 Resp: 270
Ion Ratio Lower Upper
173 100
175 939.3 39.4 59.2#
254 0.0 6.8 10.2#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN084511.D
Acq: 25 Oct 2024 13:15

Tgt Ion:117 Resp: 106273
Ion Ratio Lower Upper
117 100
82 58.7 46.2 69.4
119 32.6 25.4 38.2

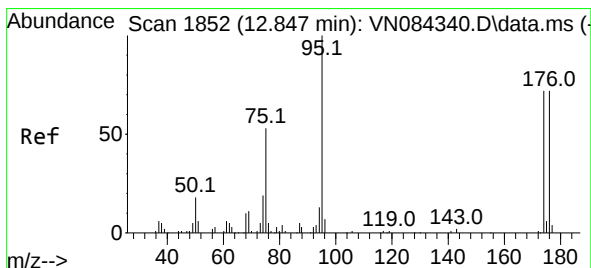
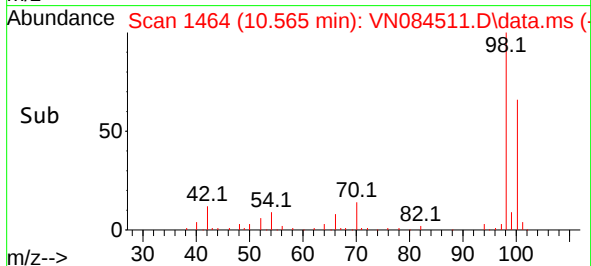
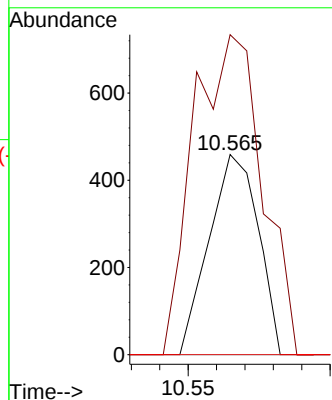
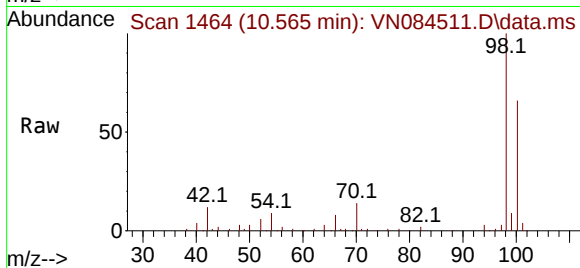




#58
4-Methyl-2-Pentanone
Concen: 0.279 ug/l
RT: 10.565 min Scan# 1444
Delta R.T. 0.118 min
Lab File: VN084511.D
Acq: 25 Oct 2024 13:15

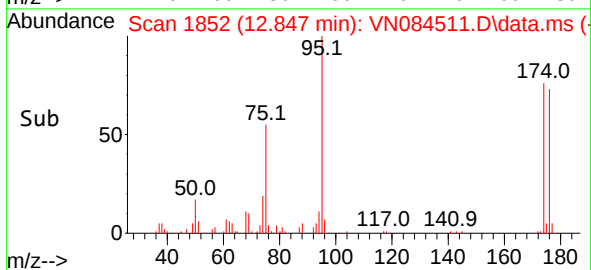
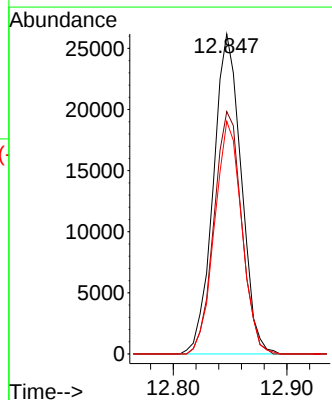
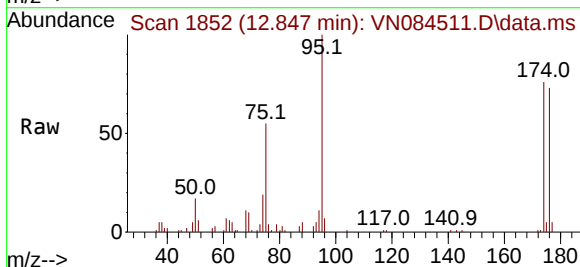
Instrument :
MSVOA_N
ClientSampleId :
241023062-05-TRIP-BLANK

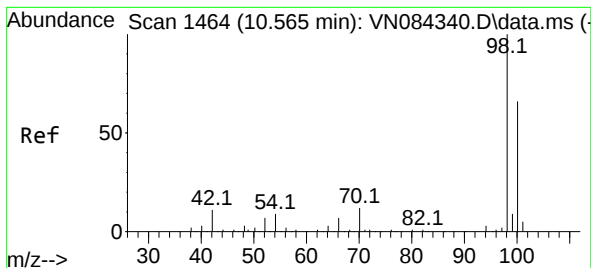
Tgt Ion:	43	Resp:	553
Ion	Ratio	Lower	Upper
43	100		
58	223.1	31.9	47.9#
85	0.0	14.6	22.0#



#60
4-Bromofluorobenzene
Concen: 25.447 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084511.D
Acq: 25 Oct 2024 13:15

Tgt Ion:	95	Resp:	44632
Ion	Ratio	Lower	Upper
95	100		
174	75.1	58.2	87.2
176	71.2	56.4	84.6





#63

Toluene-d8

Concen: 28.934 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN084511.D

Acq: 25 Oct 2024 13:15

Instrument :

MSVOA_N

ClientSampleId :

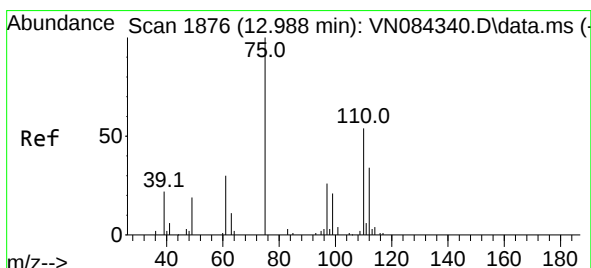
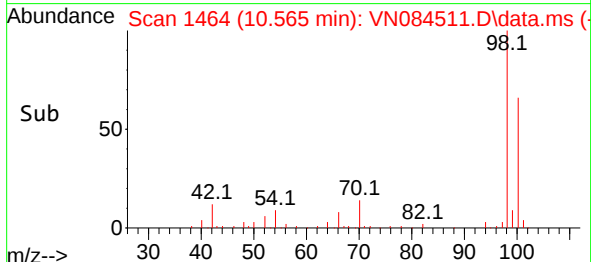
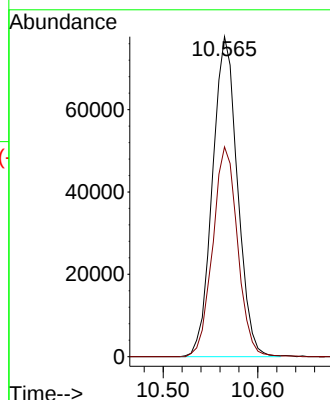
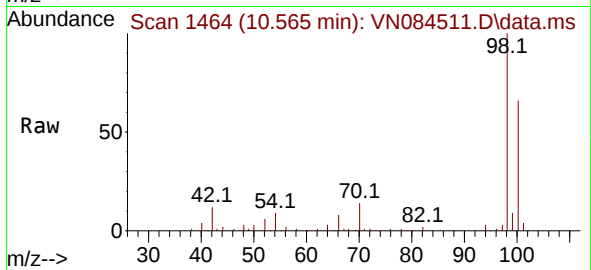
241023062-05-TRIP-BLANK

Tgt Ion: 98 Resp: 142449

Ion Ratio Lower Upper

98 100

100 65.3 52.5 78.7



#72

1,2,3-Trichloropropane

Concen: 13.941 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN084511.D

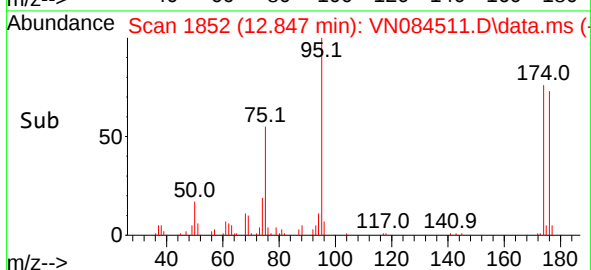
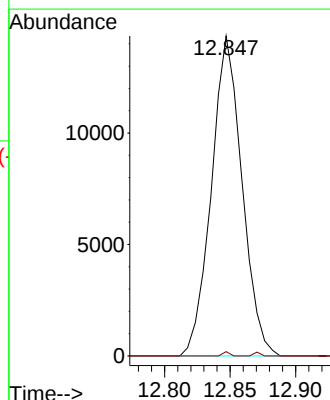
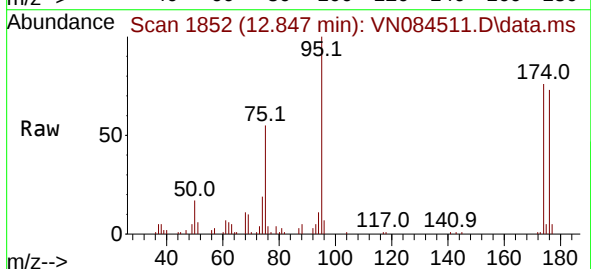
Acq: 25 Oct 2024 13:15

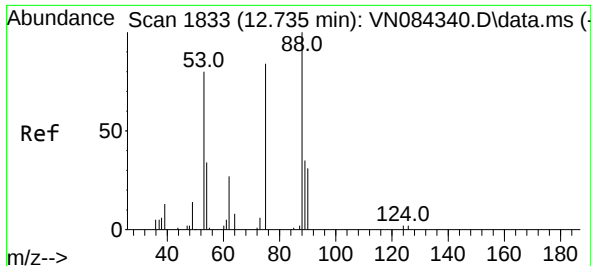
Tgt Ion: 75 Resp: 23305

Ion Ratio Lower Upper

75 100

77 1.8 0.0 414.0





#77

t-1,4-Dichloro-2-butene

Concen: 32.625 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN084511.D

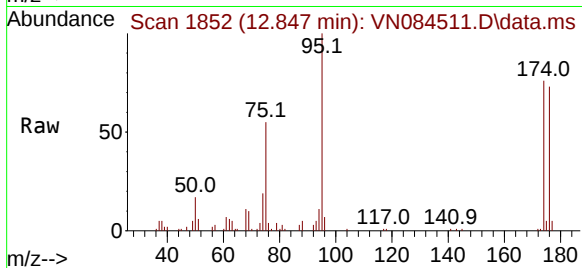
Acq: 25 Oct 2024 13:15

Instrument :

MSVOA_N

ClientSampleId :

241023062-05-TRIP-BLANK



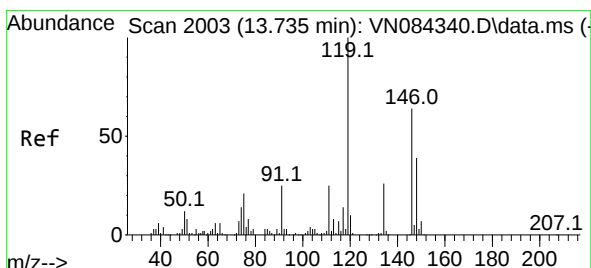
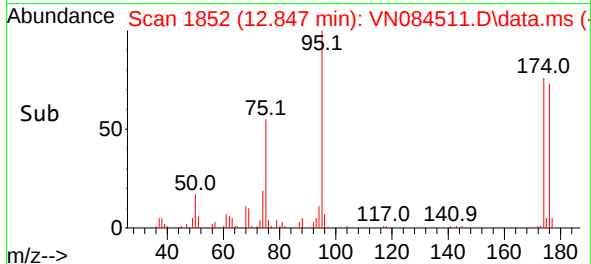
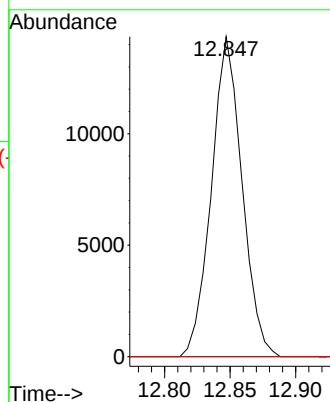
Tgt Ion: 75 Resp: 23305

Ion Ratio Lower Upper

75 100

53 0.0 47.3 142.0#

89 0.0 22.9 68.8#



#83

1,3-Dichlorobenzene

Concen: 0.236 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.006 min

Lab File: VN084511.D

Acq: 25 Oct 2024 13:15

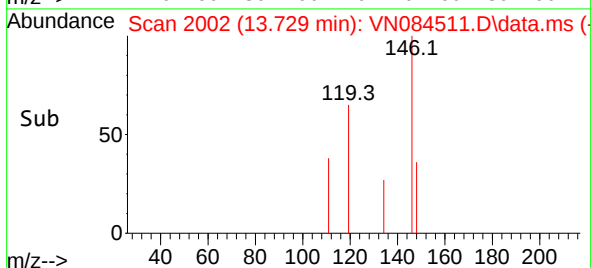
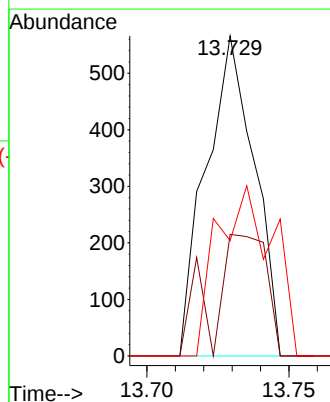
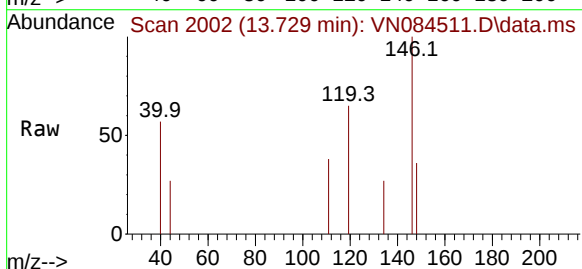
Tgt Ion:146 Resp: 670

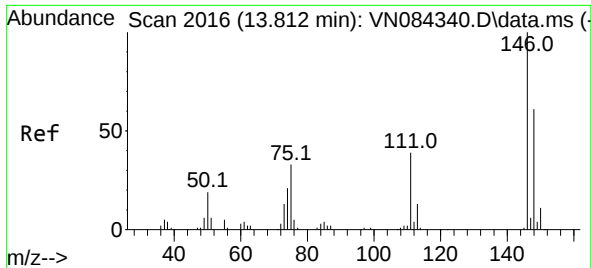
Ion Ratio Lower Upper

146 100

111 33.0 20.6 61.9

148 61.2 31.6 94.7

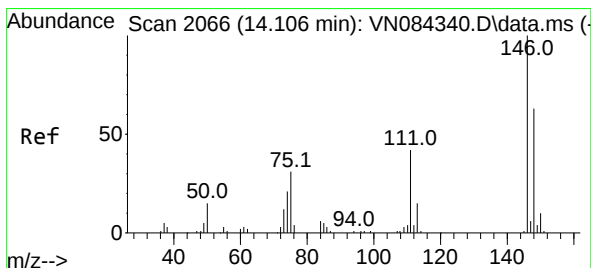
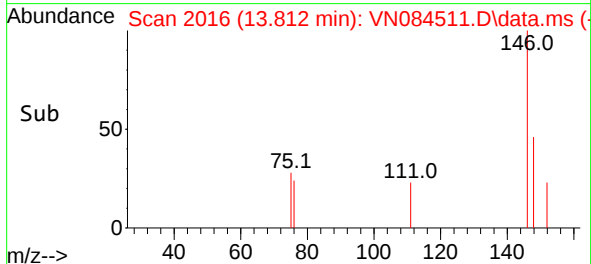
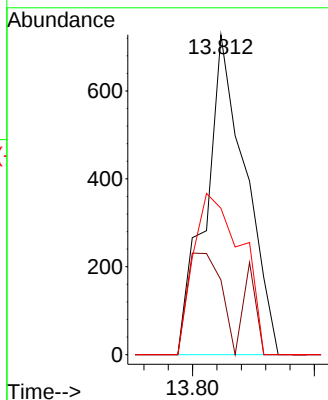
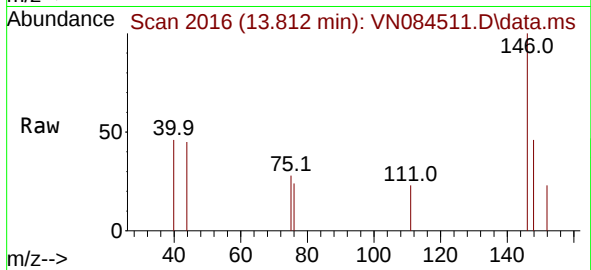




#84
 1,4-Dichlorobenzene
 Concen: 0.293 ug/l
 RT: 13.812 min Scan# 2016
 Delta R.T. 0.000 min
 Lab File: VN084511.D
 Acq: 25 Oct 2024 13:15

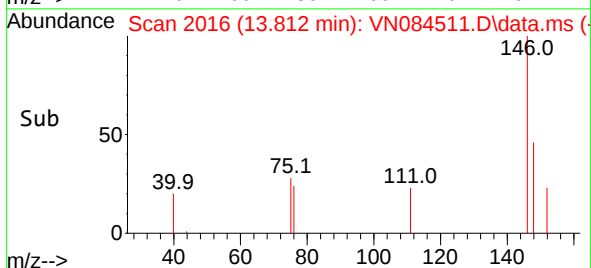
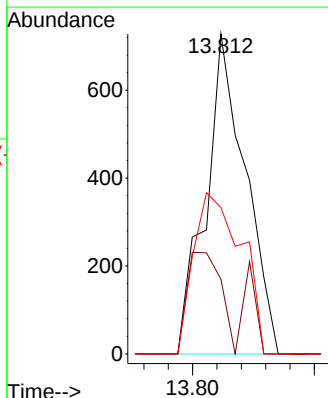
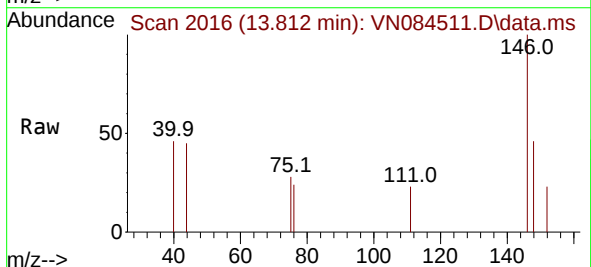
Instrument :
 MSVOA_N
 ClientSampleId :
 241023062-05-TRIP-BLANK

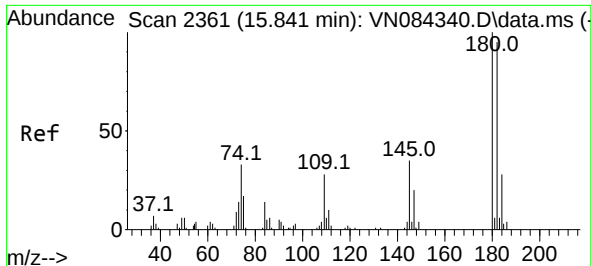
Tgt Ion:146	Resp:	827
Ion	Ratio	Lower Upper
146	100	
111	27.0	20.5 61.5
148	60.7	32.5 97.4



#87
 1,2-Dichlorobenzene
 Concen: 0.301 ug/l
 RT: 13.812 min Scan# 2016
 Delta R.T. -0.294 min
 Lab File: VN084511.D
 Acq: 25 Oct 2024 13:15

Tgt Ion:146	Resp:	827
Ion	Ratio	Lower Upper
146	100	
111	27.0	21.9 65.5
148	60.7	31.1 93.5





#89

1,2,4-Trichlorobenzene

Concen: 0.704 ug/l

RT: 15.835 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN084511.D

Acq: 25 Oct 2024 13:15

Instrument :

MSVOA_N

ClientSampleId :

241023062-05-TRIP-BLANK

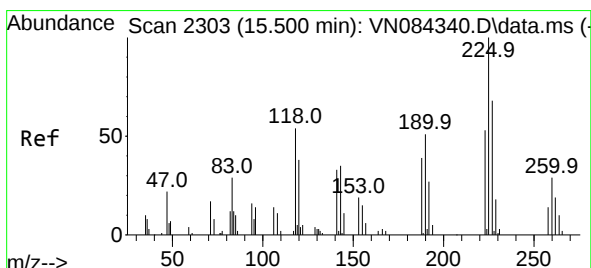
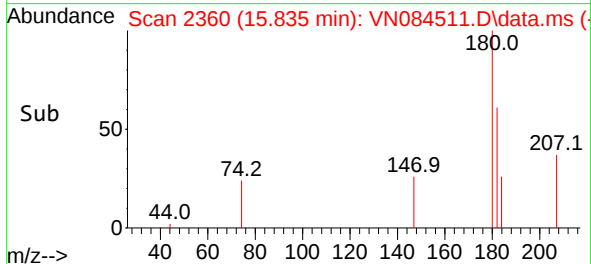
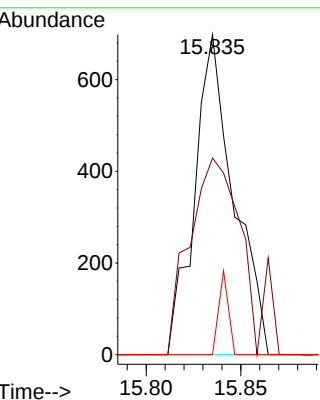
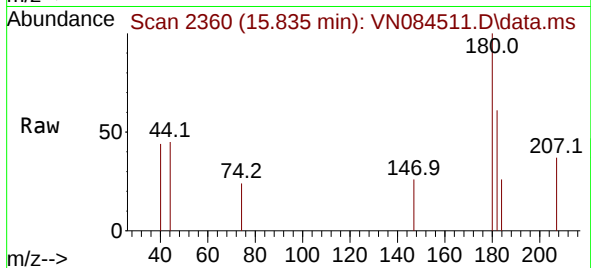
Tgt Ion:180 Resp: 1006

Ion Ratio Lower Upper

180 100

182 77.8 77.8 116.6

145 0.0 28.9 43.3#



#90

Hexachlorobutadiene

Concen: 0.616 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. -0.006 min

Lab File: VN084511.D

Acq: 25 Oct 2024 13:15

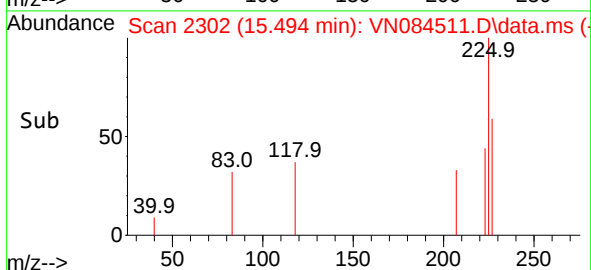
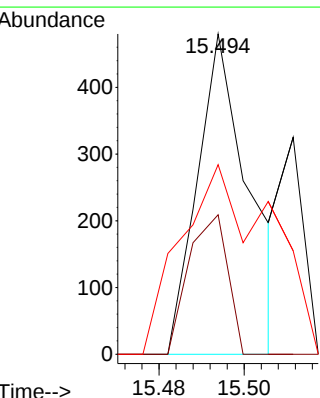
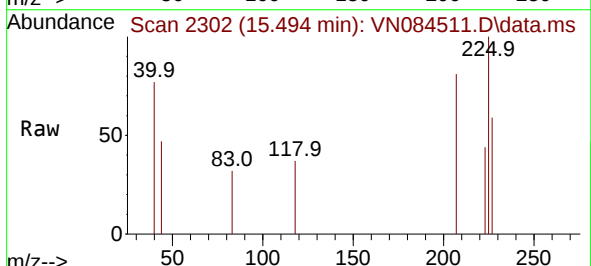
Tgt Ion:225 Resp: 407

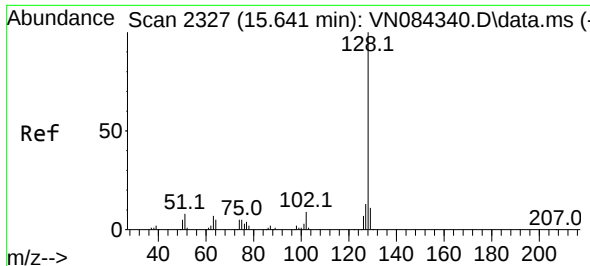
Ion Ratio Lower Upper

225 100

223 32.7 0.0 124.0

227 69.0 0.0 130.8

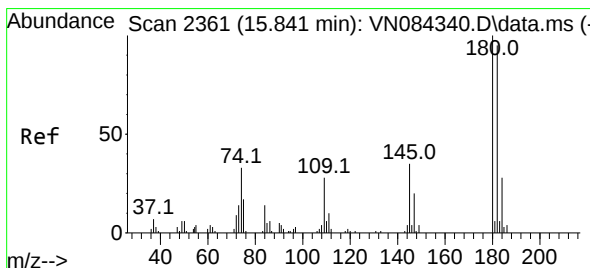
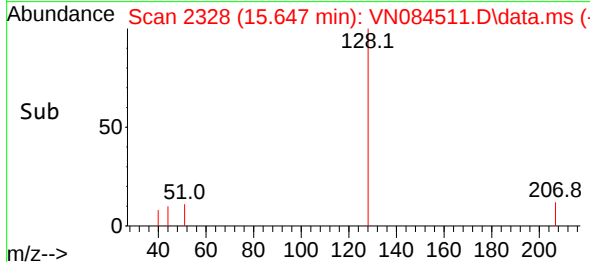
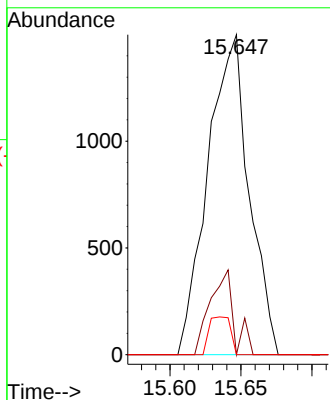
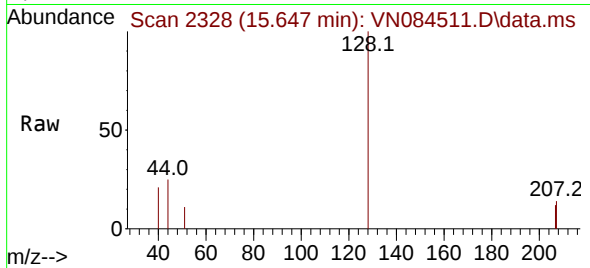




#91
Naphthalene
Concen: 0.626 ug/l
RT: 15.647 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN084511.D
Acq: 25 Oct 2024 13:15

Instrument :
MSVOA_N
ClientSampleId :
241023062-05-TRIP-BLANK

Tgt Ion:128 Resp: 3028
Ion Ratio Lower Upper
128 100
127 2.0 10.3 15.5#
129 0.0 8.8 13.2#



#92
1,2,3-Trichlorobenzene
Concen: 0.636 ug/l
RT: 15.394 min Scan# 2285
Delta R.T. -0.447 min
Lab File: VN084511.D
Acq: 25 Oct 2024 13:15

Tgt Ion:180 Resp: 909
Ion Ratio Lower Upper
180 100
182 88.9 0.0 194.4
145 7.7 0.0 72.2

