

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
 Data File : VN084772.D
 Acq On : 11 Nov 2024 15:18
 Operator : JC\MD
 Sample : P4722-16RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-1(5.5)

Quant Time: Nov 12 00:32:49 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)

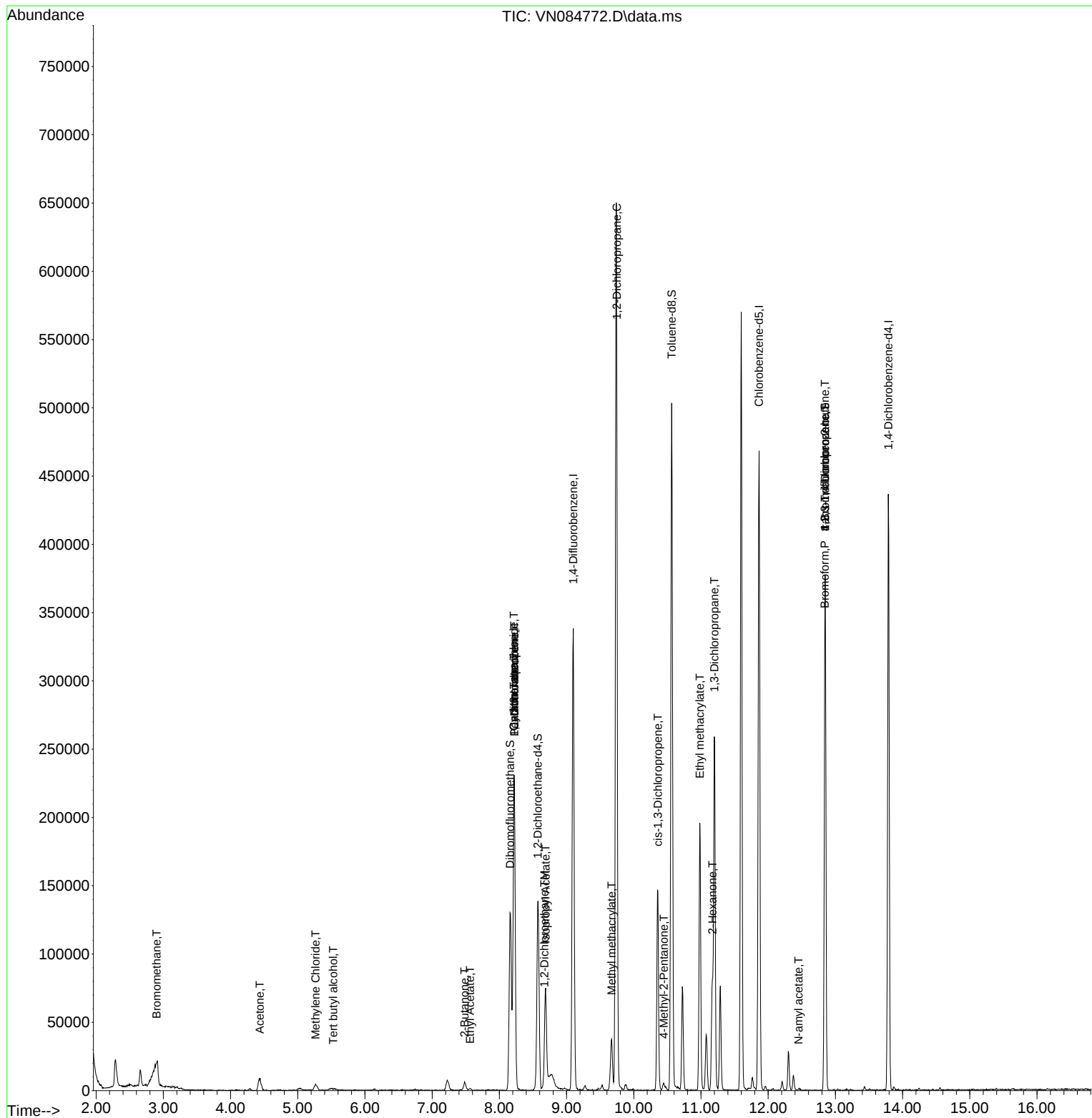
Internal Standards						
1) Pentafluorobenzene	8.224	168	166984	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	289915	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	269271	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	115191	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	119024	49.350	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.700%		
35) Dibromofluoromethane	8.159	113	95357	48.593	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.180%		
50) Toluene-d8	10.565	98	349810	48.391	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.780%		
62) 4-Bromofluorobenzene	12.847	95	131680	48.741	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	97.480%		
Target Compounds						Qvalue
3) Chloromethane	2.359	50	360	Below Cal	#	41
5) Bromomethane	2.900	94	309	0.282	ug/l #	4
6) Chloroethane	3.106	64	167	Below Cal	#	45
11) Tert butyl alcohol	5.530	59	715	2.246	ug/l #	73
16) Acetone	4.436	43	17224	22.123	ug/l	94
18) Methyl Acetate	5.030	43	3052	Below Cal	#	68
20) Methylene Chloride	5.265	84	3558	1.677	ug/l #	73
25) 2-Butanone	7.482	43	10075	8.954	ug/l	90
31) Cyclohexane	8.218	56	3665	1.101	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	14224	5.226	ug/l #	49
37) Ethyl Acetate	7.565	43	2194	0.889	ug/l #	77
38) Carbon Tetrachloride	8.218	117	17698	5.818	ug/l #	15
42) 1,2-Dichloroethane	8.671	62	597	0.211	ug/l #	75
43) Isopropyl Acetate	8.688	43	86312	18.309	ug/l #	91
45) 1,2-Dichloropropane	9.747	63	813	0.397	ug/l #	44
48) Methyl methacrylate	9.671	41	2728	1.420	ug/l #	44
51) 4-Methyl-2-Pentanone	10.447	43	5840	2.481	ug/l #	74
54) cis-1,3-Dichloropropene	10.359	75	27353	8.187	ug/l #	60
56) Ethyl methacrylate	10.982	69	971	0.349	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	2645	0.800	ug/l #	42
59) 2-Hexanone	11.171	43	66096	38.576	ug/l #	24
71) Bromoform	12.841	173	495	0.314	ug/l #	1
74) N-amyl acetate	12.453	43	1275	0.371	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	68749	29.857	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	68749	70.833	ug/l #	11
88) 1,4-Dichlorobenzene	13.812	146	536	Below Cal	#	24

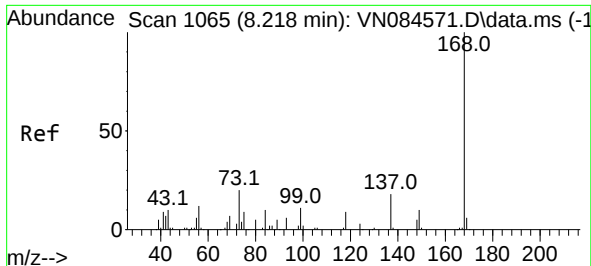
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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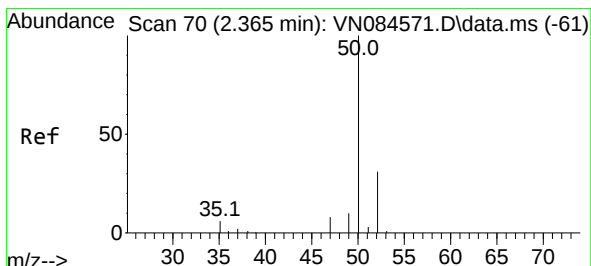
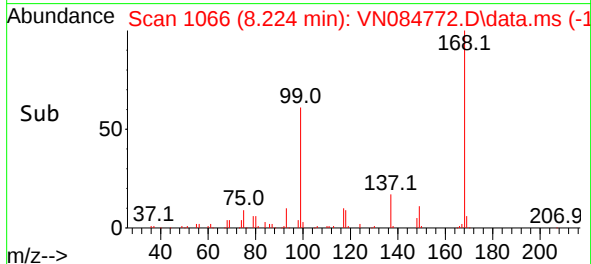
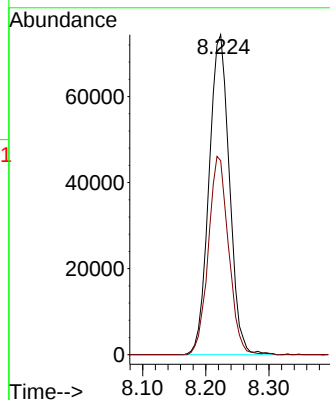
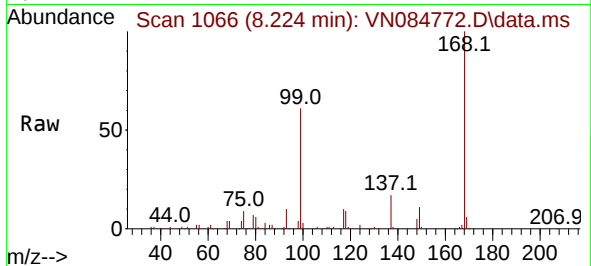




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

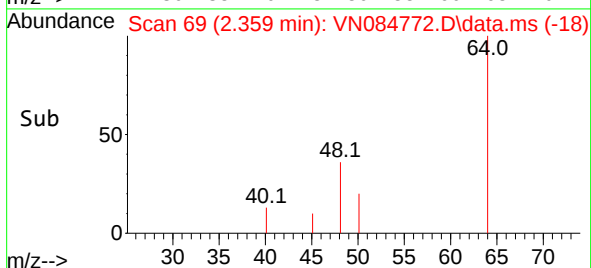
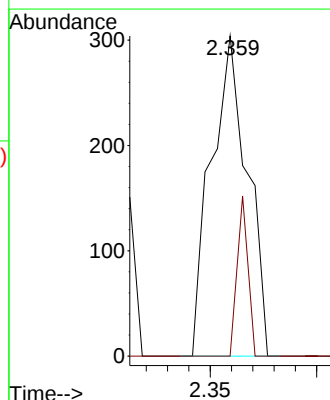
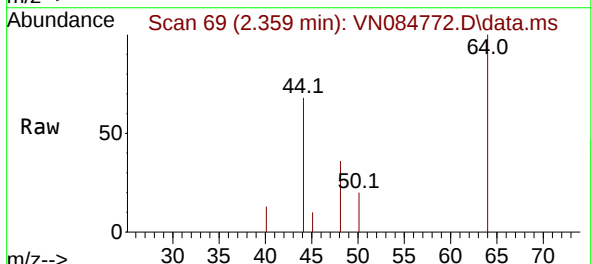
Instrument :
MSVOA_N
ClientSampleId :
WC-1(5.5)

Tgt Ion:168 Resp: 166984
Ion Ratio Lower Upper
168 100
99 60.7 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

Tgt Ion: 50 Resp: 360
Ion Ratio Lower Upper
50 100
52 0.0 26.8 40.2#

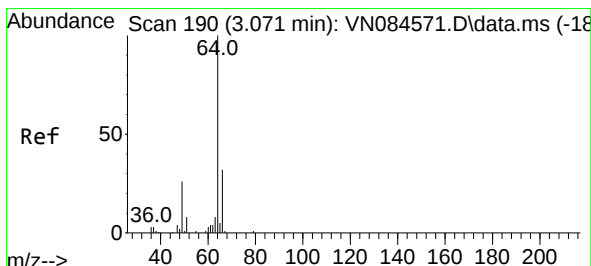
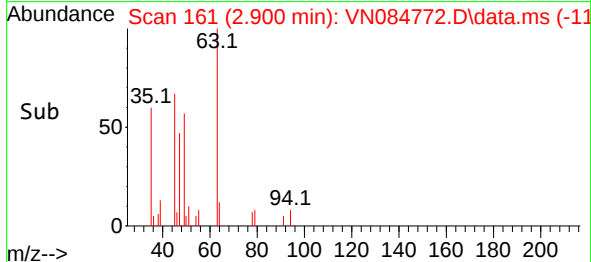
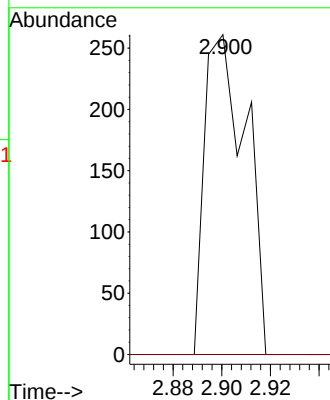
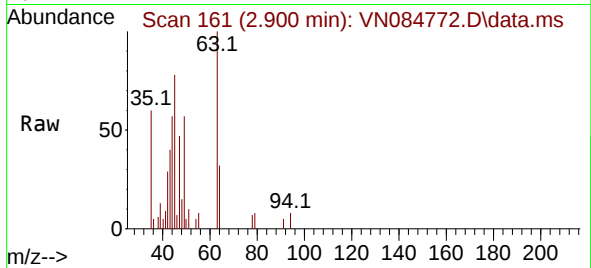




#5
Bromomethane
Concen: 0.282 ug/l
RT: 2.900 min Scan# 11
Delta R.T. -0.053 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

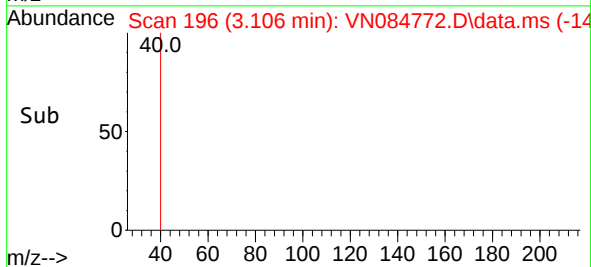
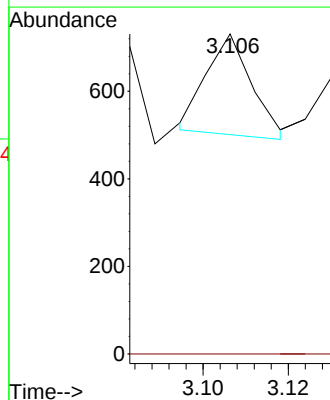
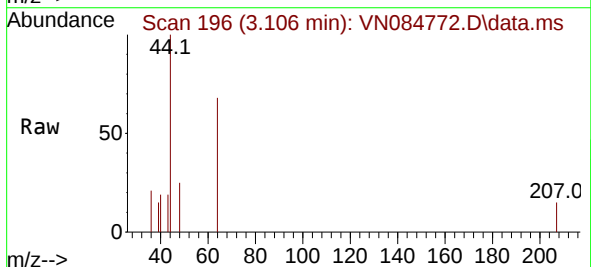
Instrument :
MSVOA_N
ClientSampleId :
WC-1(5.5)

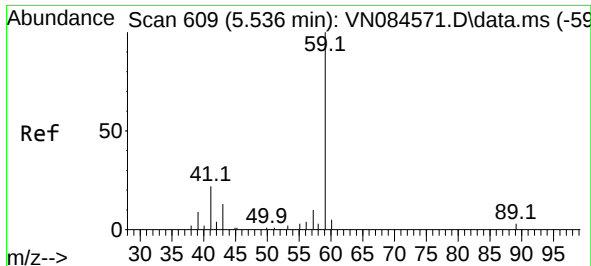
Tgt Ion: 94 Resp: 309
Ion Ratio Lower Upper
94 100
96 0.0 72.9 109.3#



#6
Chloroethane
Concen: Below Cal
RT: 3.106 min Scan# 196
Delta R.T. -0.012 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

Tgt Ion: 64 Resp: 167
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#

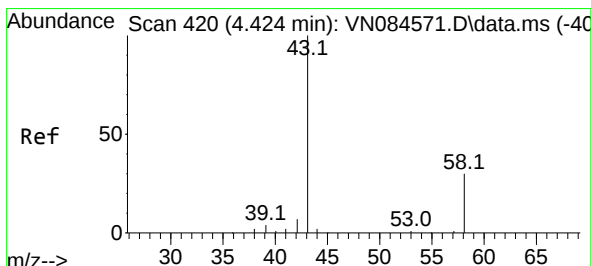
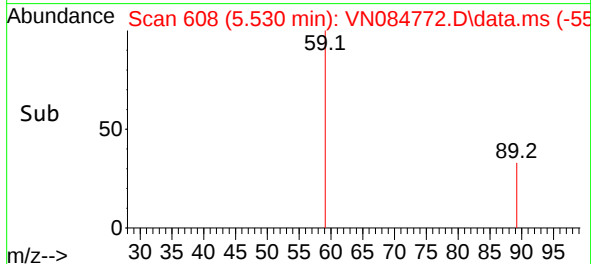
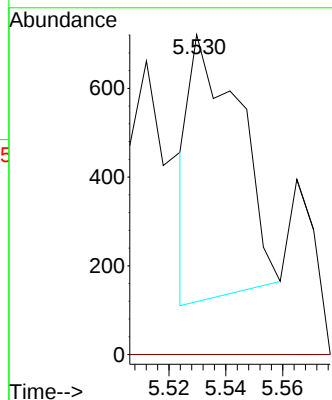
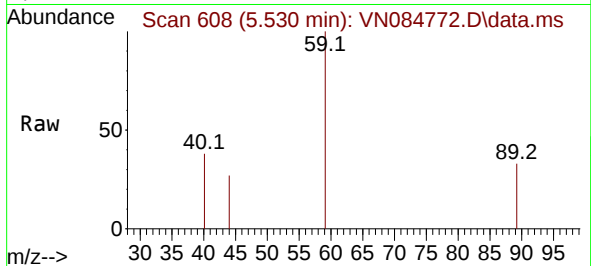




#11
Tert butyl alcohol
Concen: 2.246 ug/l
RT: 5.530 min Scan# 609
Delta R.T. 0.006 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

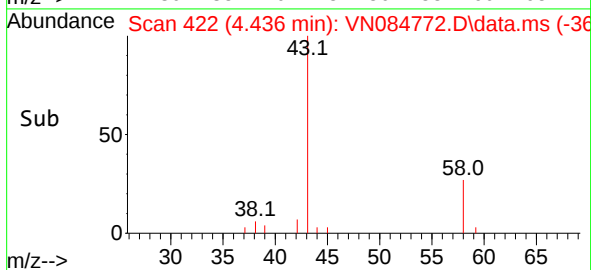
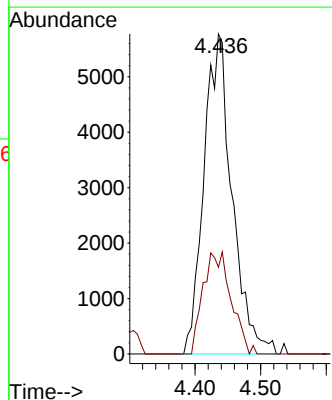
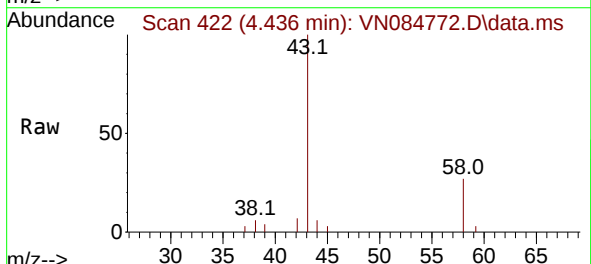
Instrument :
MSVOA_N
ClientSampleId :
WC-1(5.5)

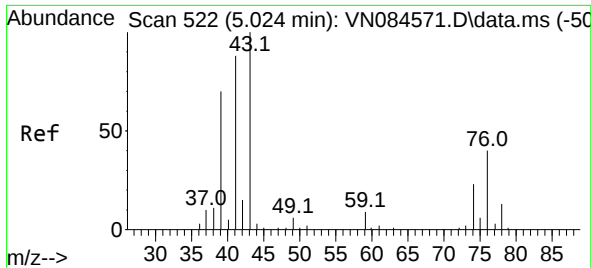
Tgt Ion: 59 Resp: 715
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#16
Acetone
Concen: 22.123 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

Tgt Ion: 43 Resp: 17224
Ion Ratio Lower Upper
43 100
58 27.1 24.4 36.6

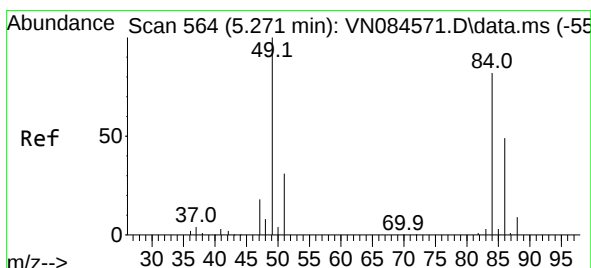
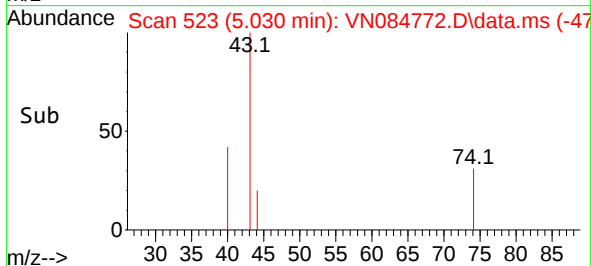
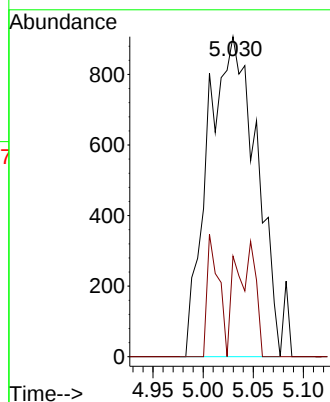
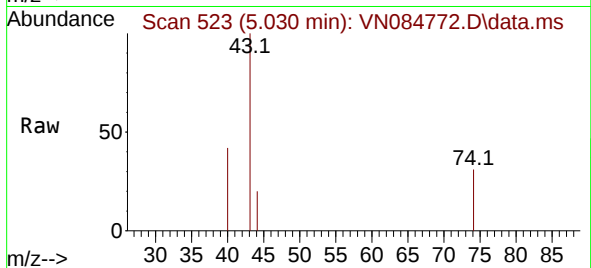




#18
Methyl Acetate
Concen: Below Cal
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

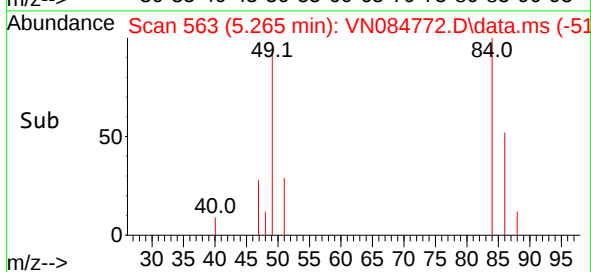
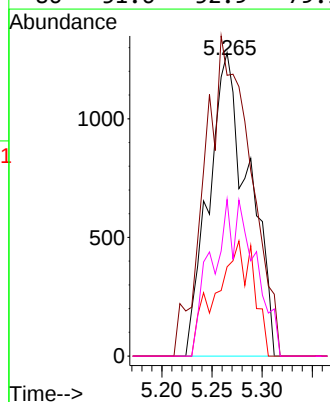
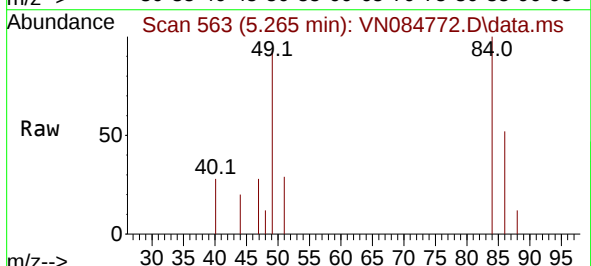
Instrument :
MSVOA_N
ClientSampleId :
WC-1(5.5)

Tgt Ion: 43 Resp: 3052
Ion Ratio Lower Upper
43 100
74 8.1 19.2 28.8#



#20
Methylene Chloride
Concen: 1.677 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.012 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

Tgt Ion: 84 Resp: 3558
Ion Ratio Lower Upper
84 100
49 92.6 107.2 160.8#
51 29.4 31.8 47.8#
86 51.6 52.9 79.3#

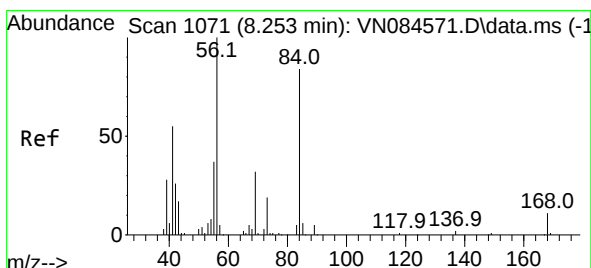
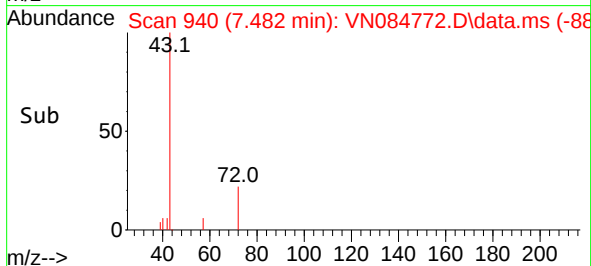
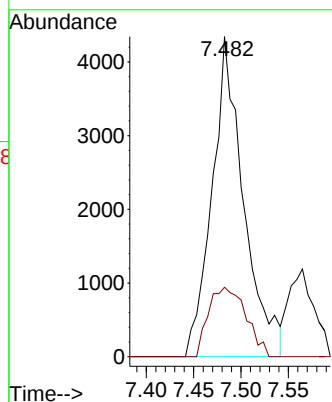
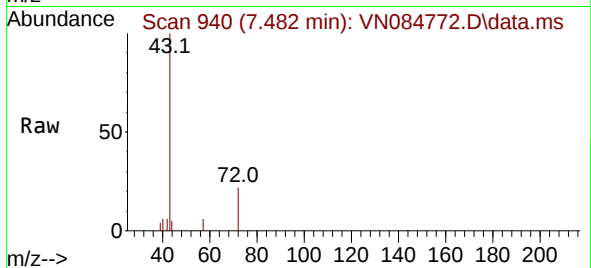




#25
2-Butanone
Concen: 8.954 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

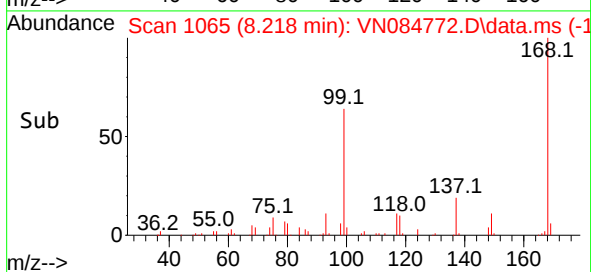
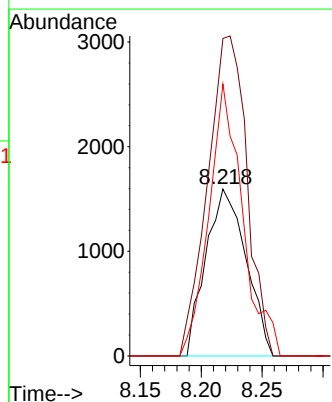
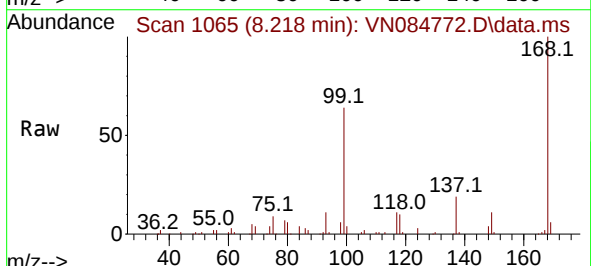
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MSVOA_N
ClientSampleId :
WC-1(5.5)

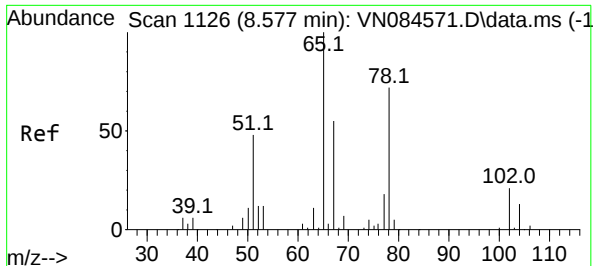
Tgt Ion: 43 Resp: 10075
Ion Ratio Lower Upper
43 100
72 21.7 21.4 32.2



#31
Cyclohexane
Concen: 1.101 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

Tgt Ion: 56 Resp: 3665
Ion Ratio Lower Upper
56 100
69 190.3 23.8 35.6#
84 163.0 68.8 103.2#

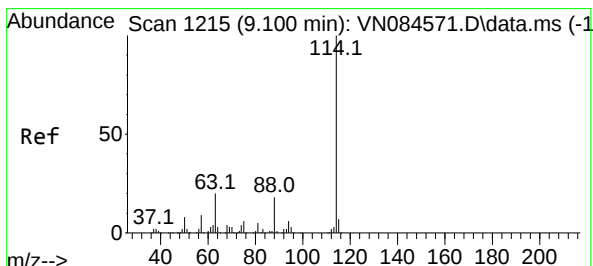
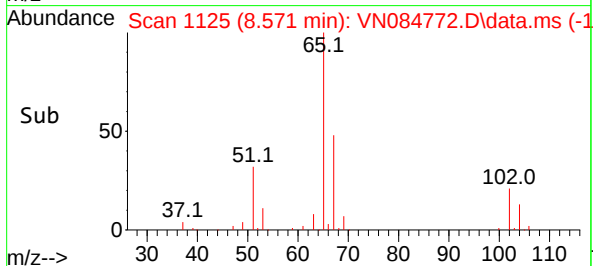
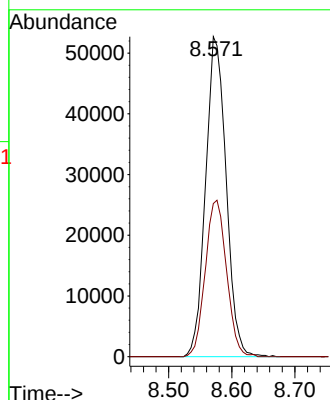
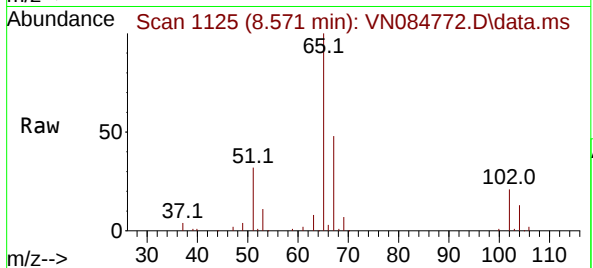




#33
1,2-Dichloroethane-d4
Concen: 49.350 ug/l
RT: 8.571 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

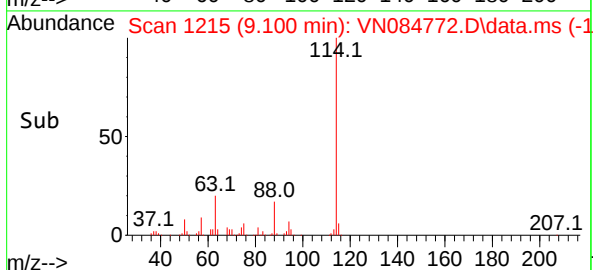
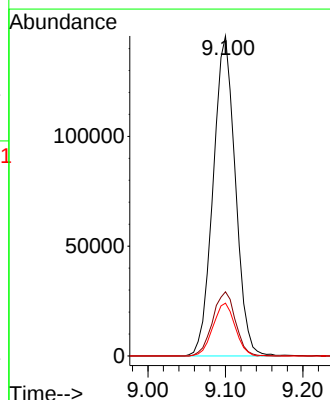
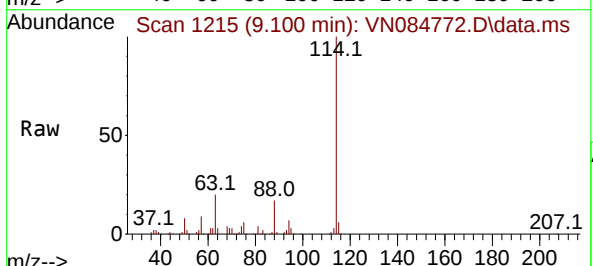
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Tgt Ion: 65 Resp: 119024
Ion Ratio Lower Upper
65 100
67 50.7 0.0 102.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

Tgt Ion:114 Resp: 289915
Ion Ratio Lower Upper
114 100
63 20.0 0.0 43.8
88 16.5 0.0 31.6





#35

Dibromofluoromethane

Concen: 48.593 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.006 min

Lab File: VN084772.D

Acq: 11 Nov 2024 15:18

Instrument :

MSVOA_N

ClientSampleId :

WC-1(5.5)

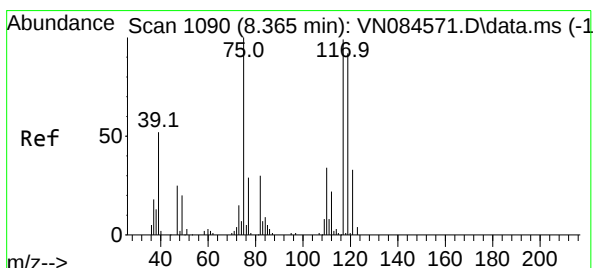
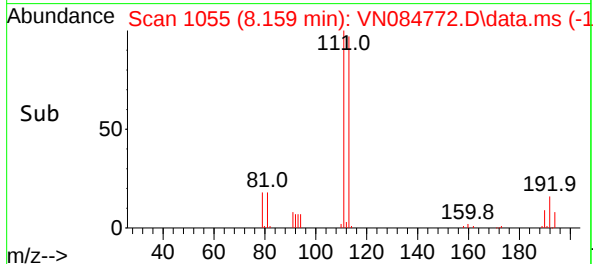
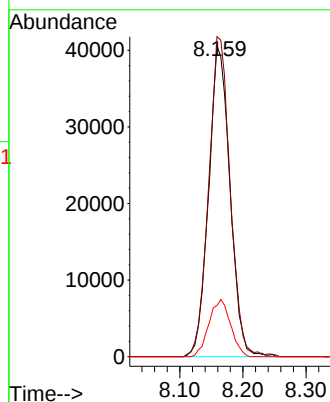
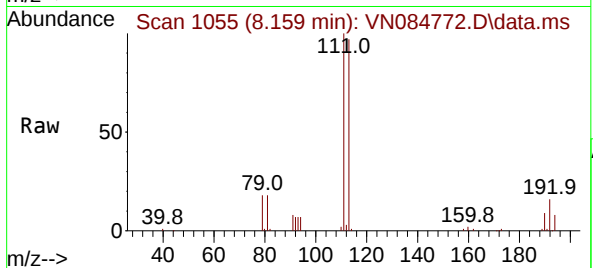
Tgt Ion:113 Resp: 95357

Ion Ratio Lower Upper

113 100

111 103.0 83.3 124.9

192 18.7 13.5 20.3



#36

1,1-Dichloropropene

Concen: 5.226 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN084772.D

Acq: 11 Nov 2024 15:18

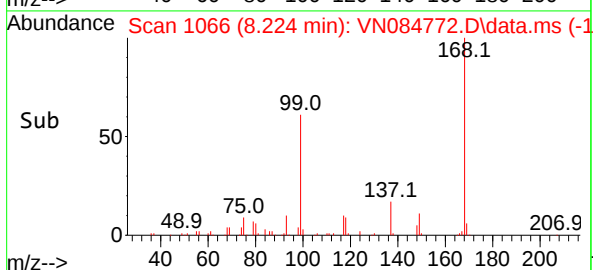
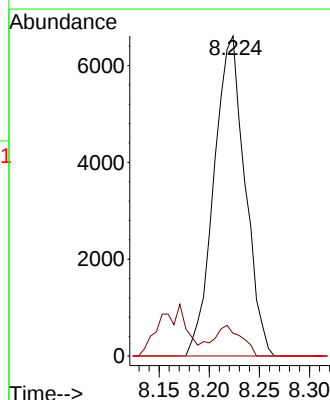
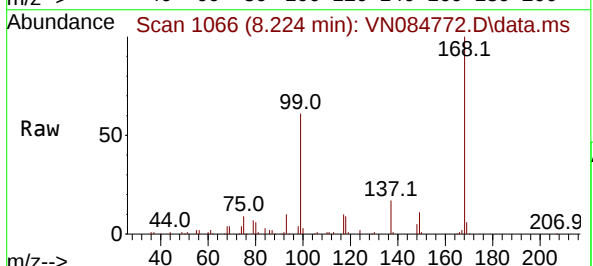
Tgt Ion: 75 Resp: 14224

Ion Ratio Lower Upper

75 100

110 7.5 16.9 50.7#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 0.889 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN084772.D

Acq: 11 Nov 2024 15:18

Instrument :

MSVOA_N

ClientSampleId :

WC-1(5.5)

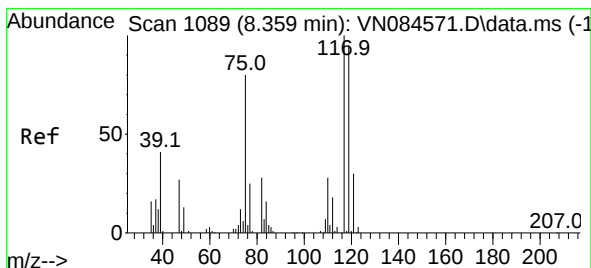
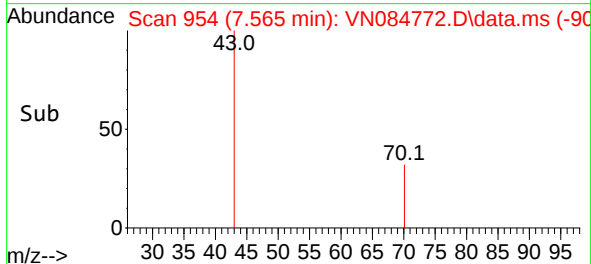
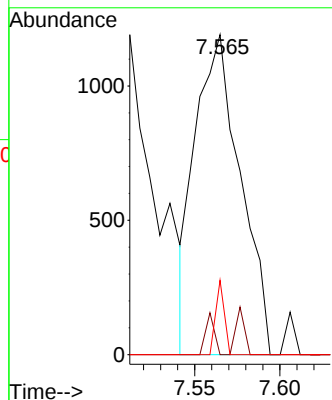
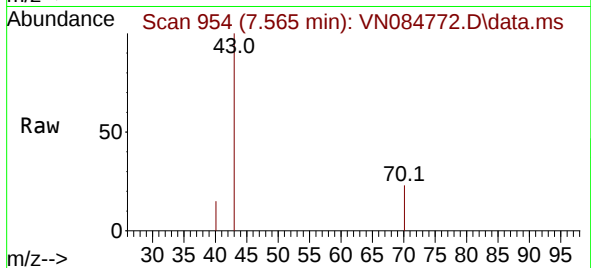
Tgt Ion: 43 Resp: 2194

Ion Ratio Lower Upper

43 100

61 2.5 10.7 16.1#

70 4.5 8.8 13.2#



#38

Carbon Tetrachloride

Concen: 5.818 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

Lab File: VN084772.D

Acq: 11 Nov 2024 15:18

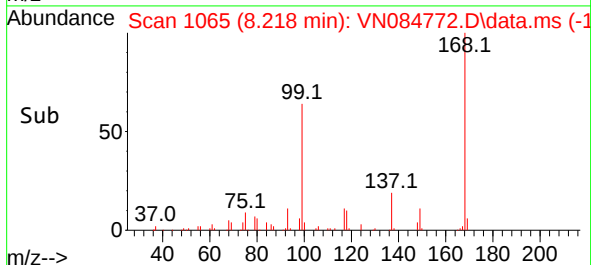
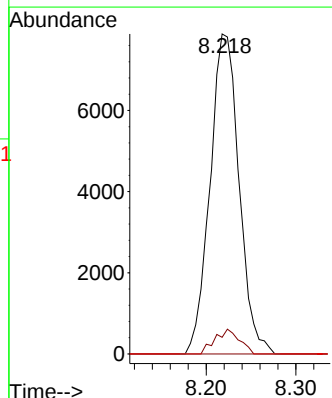
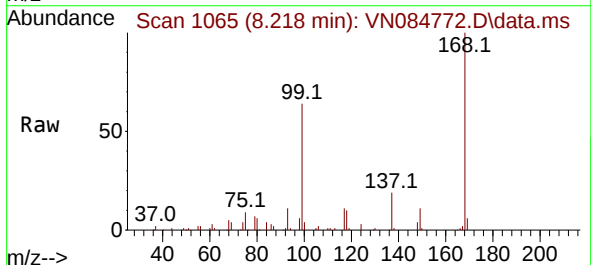
Tgt Ion: 117 Resp: 17698

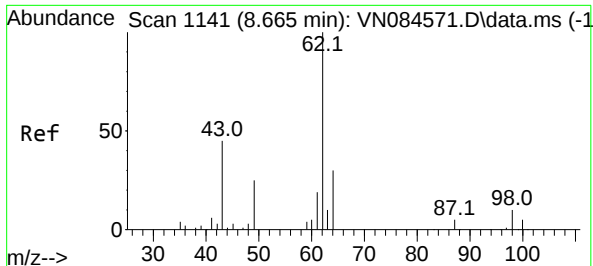
Ion Ratio Lower Upper

117 100

119 5.2 78.7 118.1#

121 0.0 24.4 36.6#





#42

1,2-Dichloroethane

Concen: 0.211 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VN084772.D

Acq: 11 Nov 2024 15:18

Instrument :

MSVOA_N

ClientSampleId :

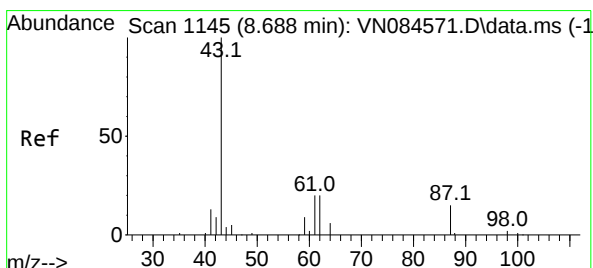
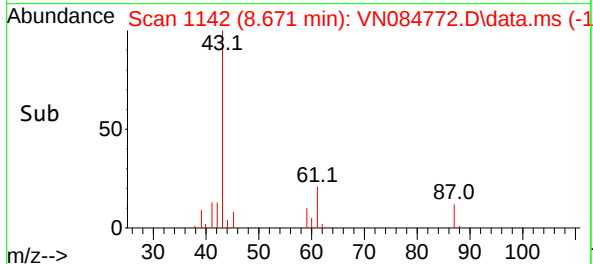
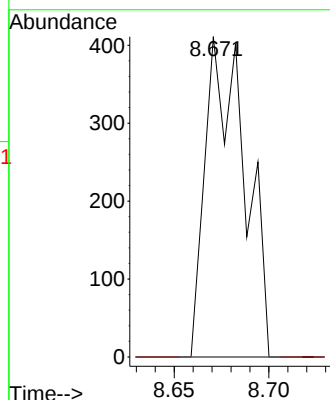
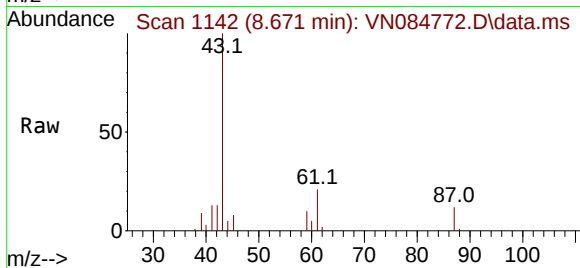
WC-1(5.5)

Tgt Ion: 62 Resp: 597

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#43

Isopropyl Acetate

Concen: 18.309 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084772.D

Acq: 11 Nov 2024 15:18

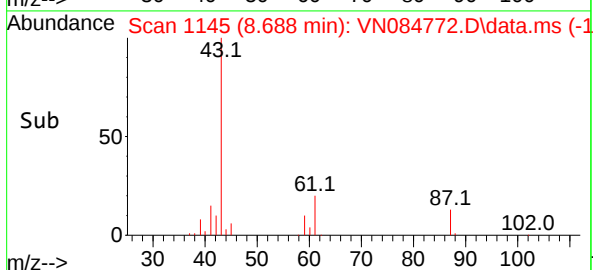
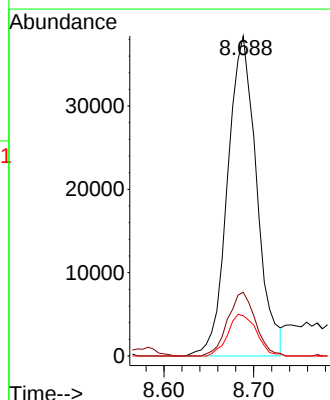
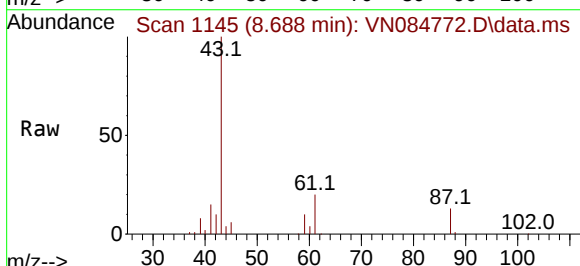
Tgt Ion: 43 Resp: 86312

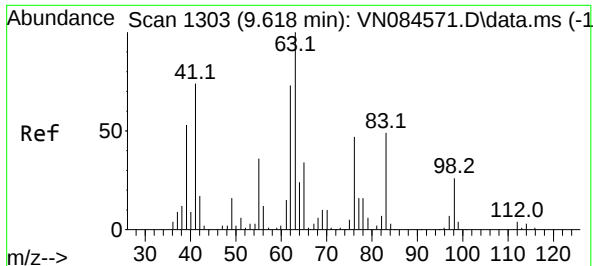
Ion Ratio Lower Upper

43 100

61 19.0 20.4 30.6#

87 12.8 10.3 15.5





#45

1,2-Dichloropropane

Concen: 0.397 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.129 min

Lab File: VN084772.D

Acq: 11 Nov 2024 15:18

Instrument :

MSVOA_N

ClientSampleId :

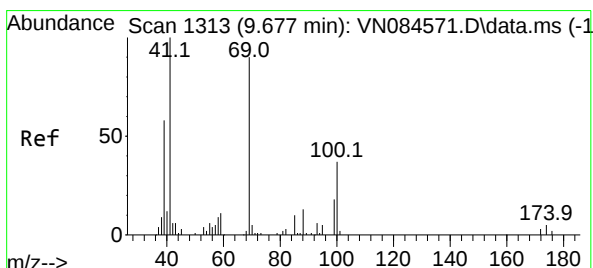
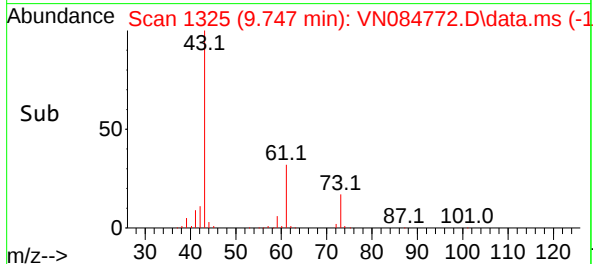
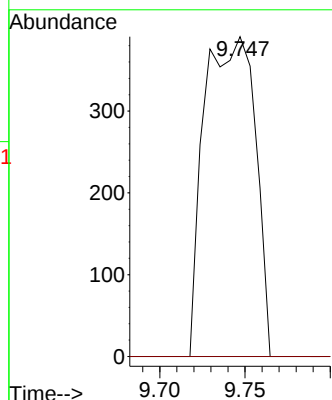
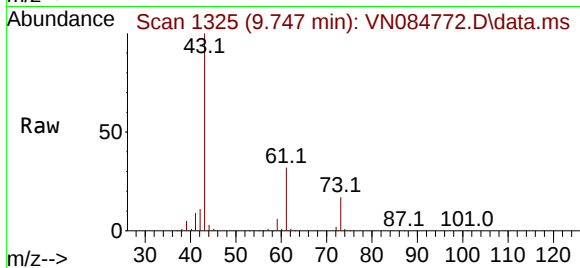
WC-1(5.5)

Tgt Ion: 63 Resp: 813

Ion Ratio Lower Upper

63 100

65 0.0 24.6 37.0#



#48

Methyl methacrylate

Concen: 1.420 ug/l

RT: 9.671 min Scan# 1312

Delta R.T. -0.006 min

Lab File: VN084772.D

Acq: 11 Nov 2024 15:18

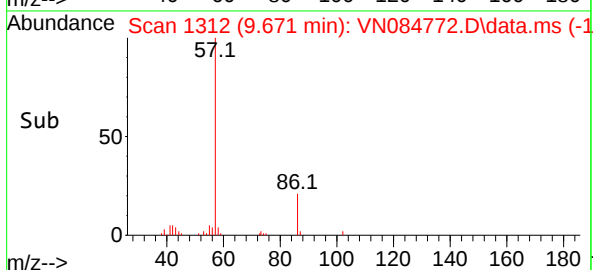
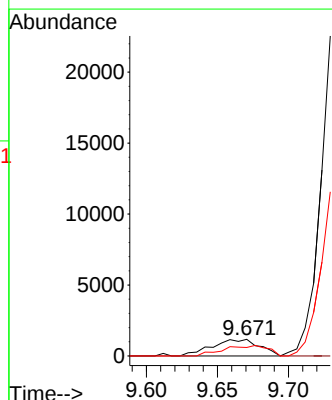
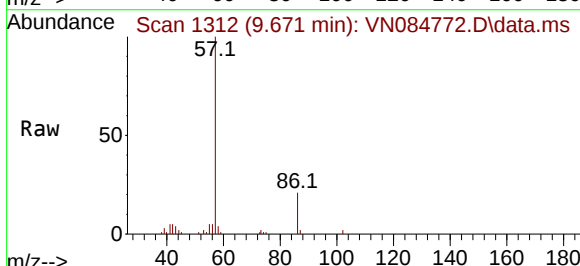
Tgt Ion: 41 Resp: 2728

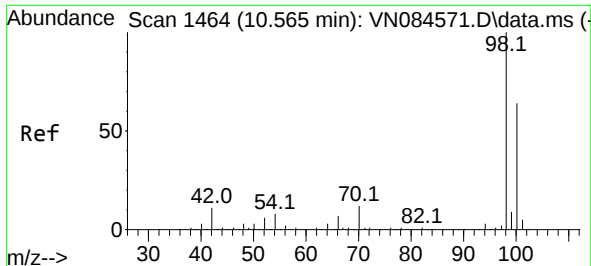
Ion Ratio Lower Upper

41 100

69 0.0 67.1 100.7#

39 58.7 45.8 68.6

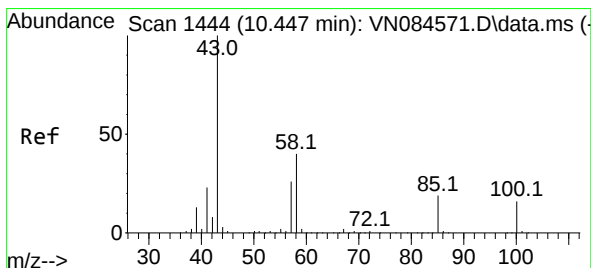
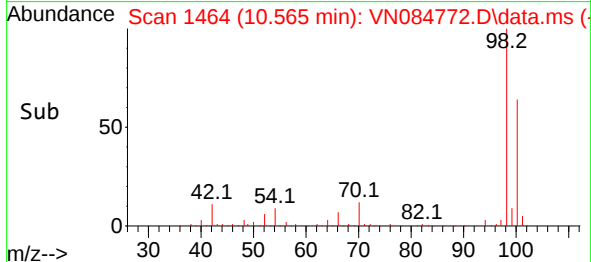
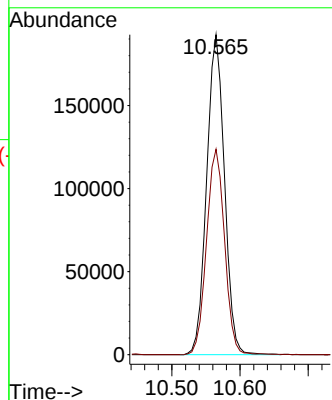
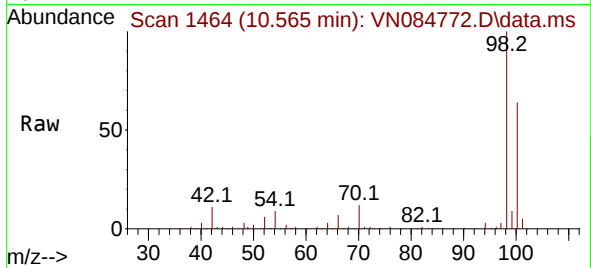




#50
Toluene-d8
Concen: 48.391 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

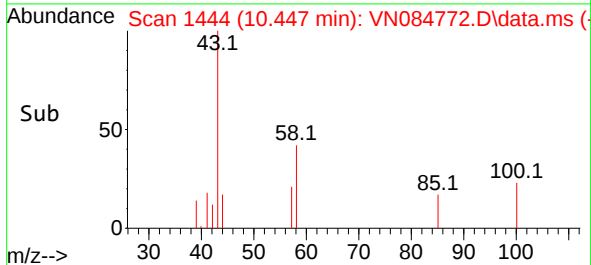
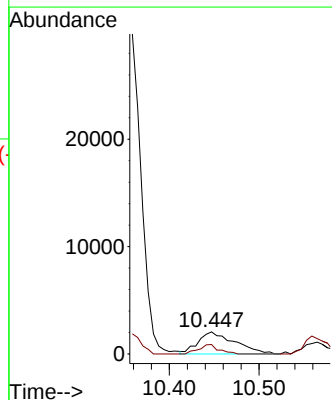
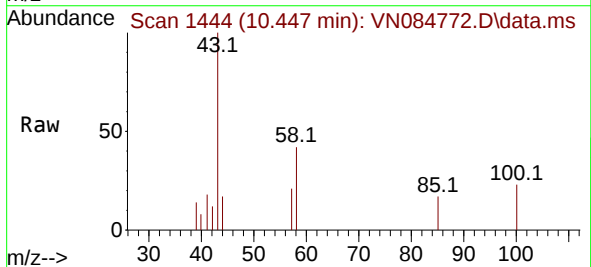
Instrument :
MSVOA_N
ClientSampleId :
WC-1(5.5)

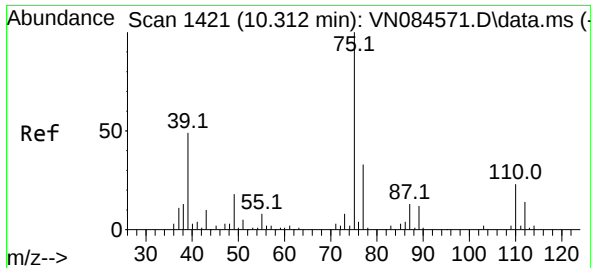
Tgt Ion: 98 Resp: 349810
Ion Ratio Lower Upper
98 100
100 65.3 52.7 79.1



#51
4-Methyl-2-Pentanone
Concen: 2.481 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

Tgt Ion: 43 Resp: 5840
Ion Ratio Lower Upper
43 100
58 23.4 31.6 47.4#

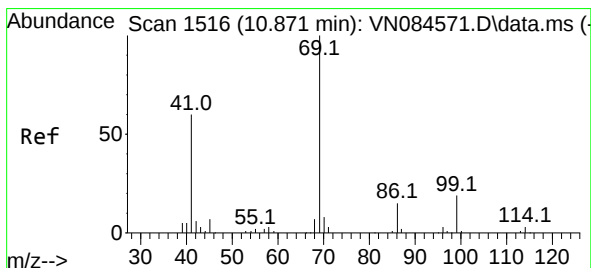
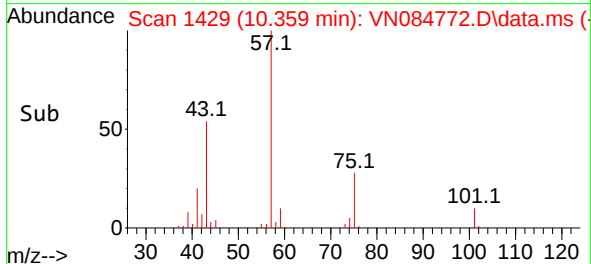
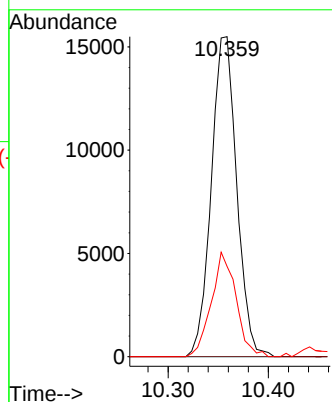
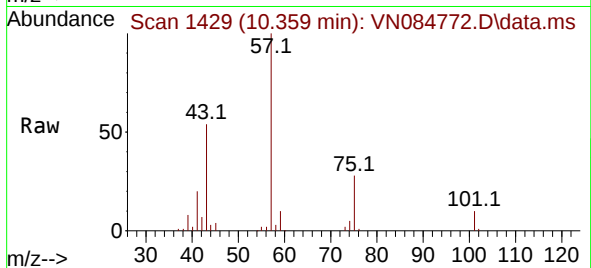




#54
 cis-1,3-Dichloropropene
 Concen: 8.187 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN084772.D
 Acq: 11 Nov 2024 15:18

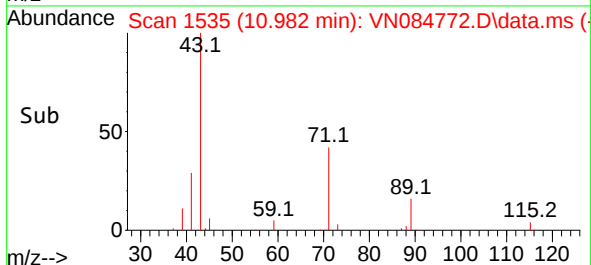
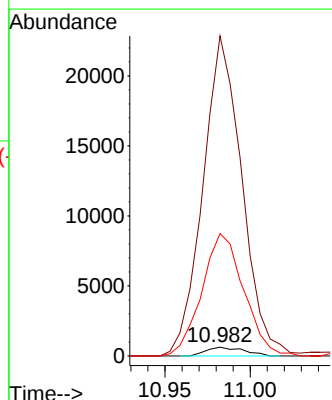
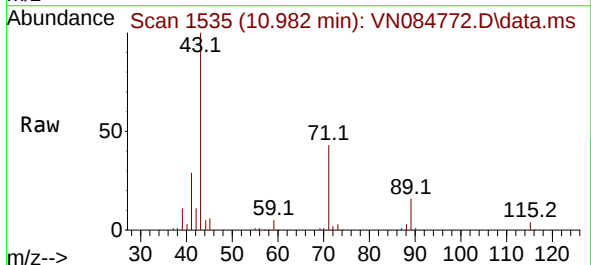
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-1(5.5)

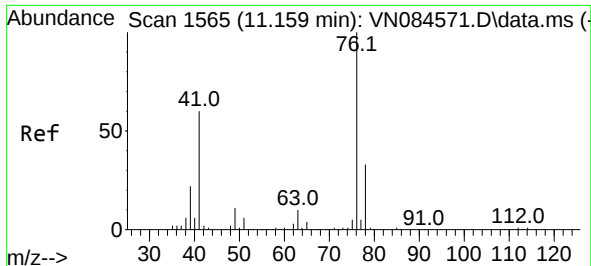
Tgt Ion: 75 Resp: 27353
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.2 36.2#
 39 28.2 38.7 58.1#



#56
 Ethyl methacrylate
 Concen: 0.349 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.112 min
 Lab File: VN084772.D
 Acq: 11 Nov 2024 15:18

Tgt Ion: 69 Resp: 971
 Ion Ratio Lower Upper
 69 100
 41 3753.0 53.3 79.9#
 39 1540.7 28.8 43.2#





#57

1,3-Dichloropropane

Concen: 0.800 ug/l

RT: 11.200 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN084772.D

Acq: 11 Nov 2024 15:18

Instrument :

MSVOA_N

ClientSampleId :

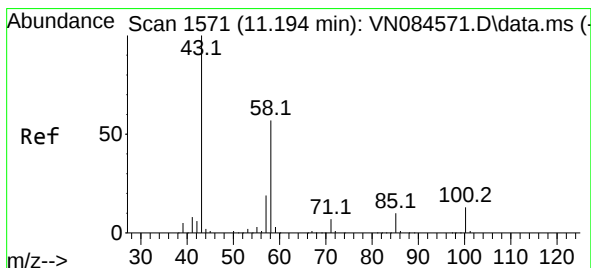
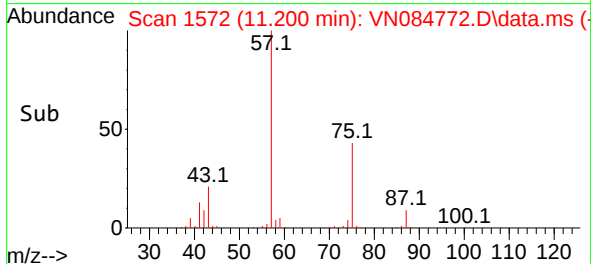
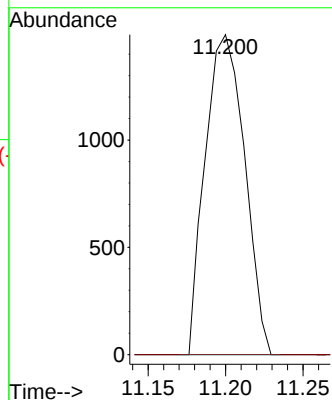
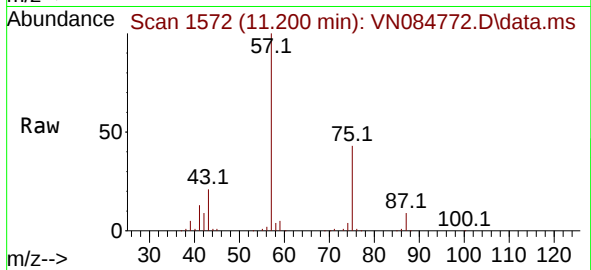
WC-1(5.5)

Tgt Ion: 76 Resp: 2645

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 38.576 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.024 min

Lab File: VN084772.D

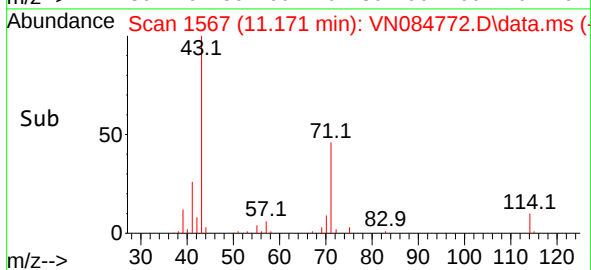
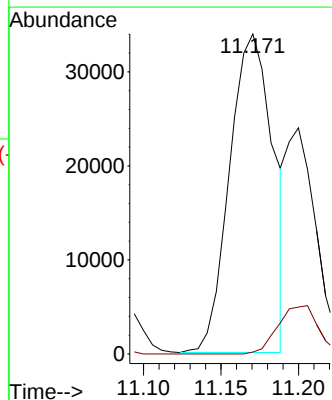
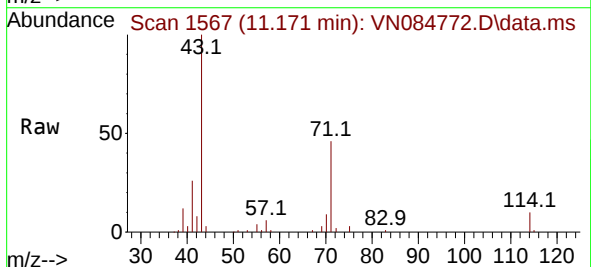
Acq: 11 Nov 2024 15:18

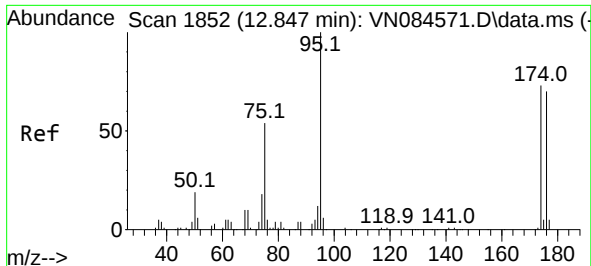
Tgt Ion: 43 Resp: 66096

Ion Ratio Lower Upper

43 100

58 0.0 27.3 81.8#

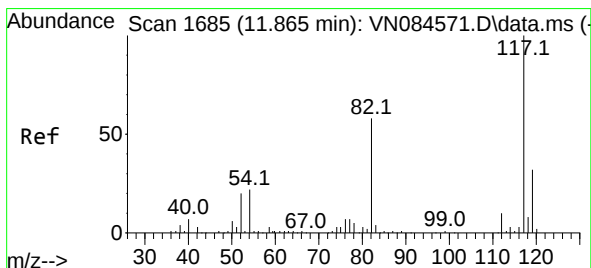
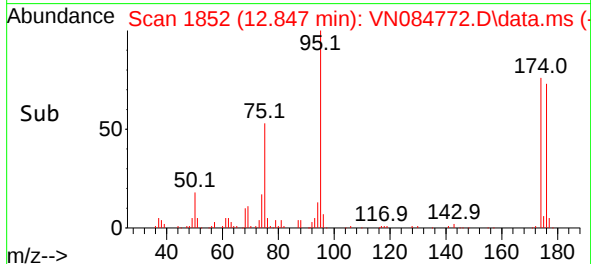
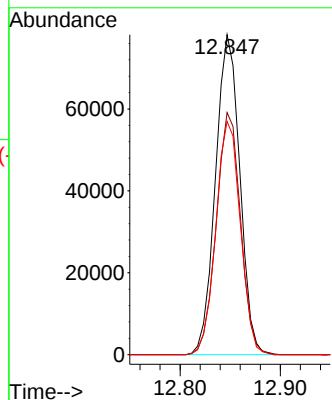
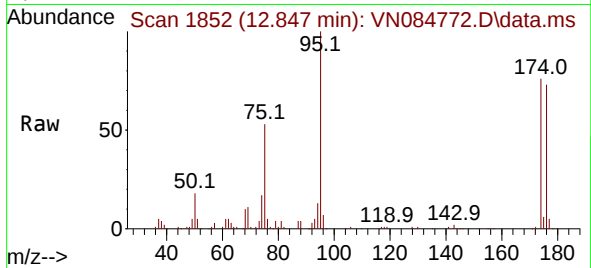




#62
4-Bromofluorobenzene
Concen: 48.741 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

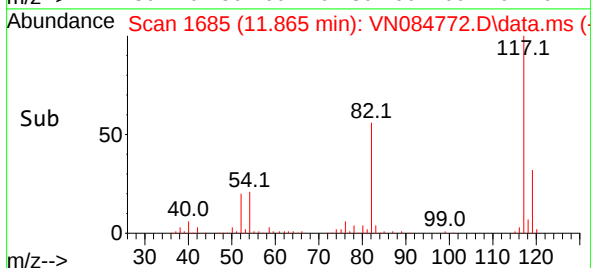
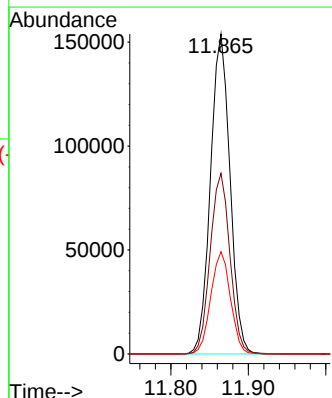
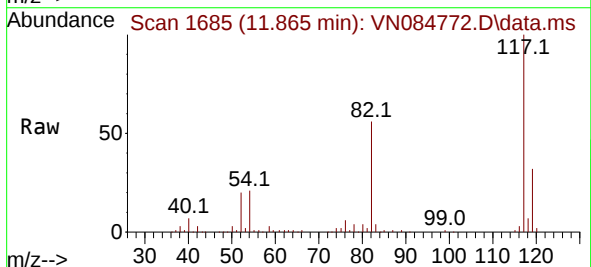
Instrument :
MSVOA_N
ClientSampleId :
WC-1(5.5)

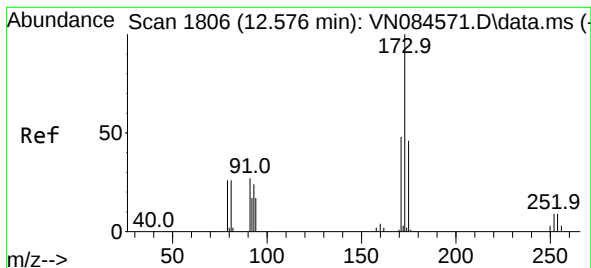
Tgt Ion: 95 Resp: 131680
Ion Ratio Lower Upper
95 100
174 75.3 0.0 145.2
176 73.6 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

Tgt Ion: 117 Resp: 269271
Ion Ratio Lower Upper
117 100
82 56.4 47.2 70.8
119 32.0 25.4 38.0





#71

Bromoform

Concen: 0.314 ug/l

RT: 12.841 min Scan# 11

Delta R.T. 0.265 min

Lab File: VN084772.D

Acq: 11 Nov 2024 15:18

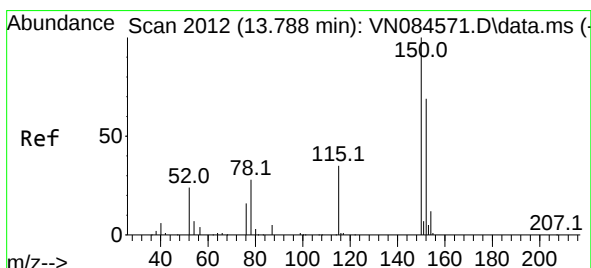
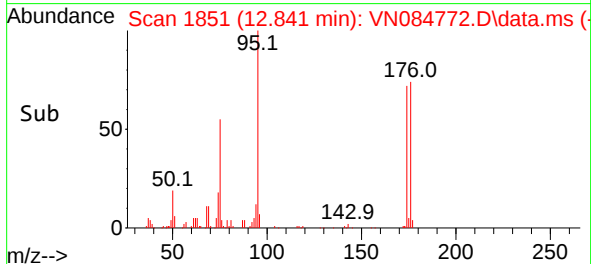
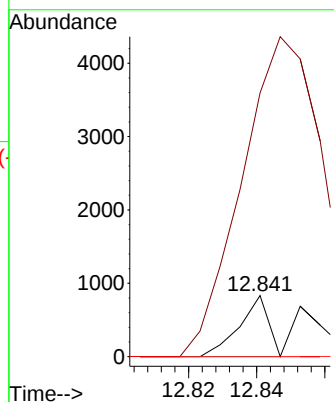
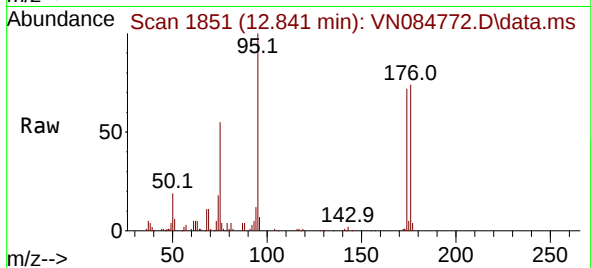
Instrument :

MSVOA_N

ClientSampleId :

WC-1(5.5)

Tgt Ion:	173	Resp:	495
Ion Ratio	Lower	Upper	
173	100		
175	1131.9	23.5	70.6#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

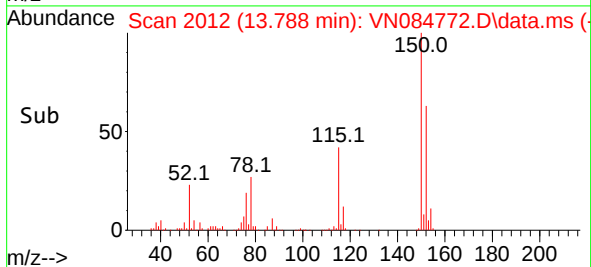
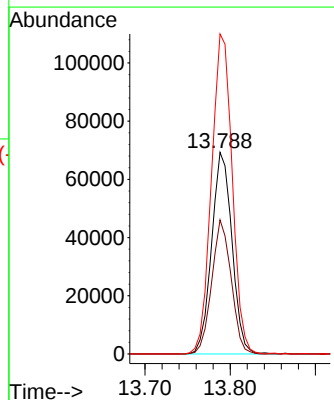
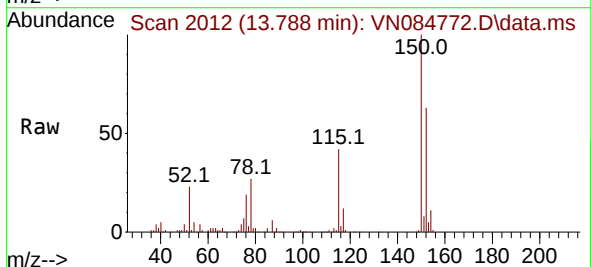
RT: 13.788 min Scan# 2012

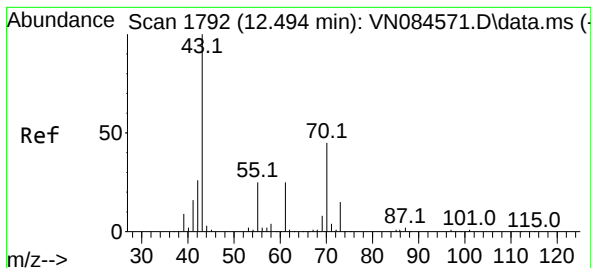
Delta R.T. -0.000 min

Lab File: VN084772.D

Acq: 11 Nov 2024 15:18

Tgt Ion:	152	Resp:	115191
Ion Ratio	Lower	Upper	
152	100		
115	63.2	31.3	93.9
150	161.1	0.0	349.8





#74

N-amy1 acetate

Concen: 0.371 ug/l

RT: 12.453 min Scan# 1

Delta R.T. -0.041 min

Lab File: VN084772.D

Acq: 11 Nov 2024 15:18

Instrument :

MSVOA_N

ClientSampleId :

WC-1(5.5)

Tgt Ion: 43 Resp: 1275

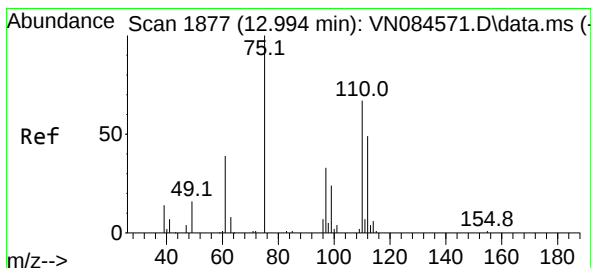
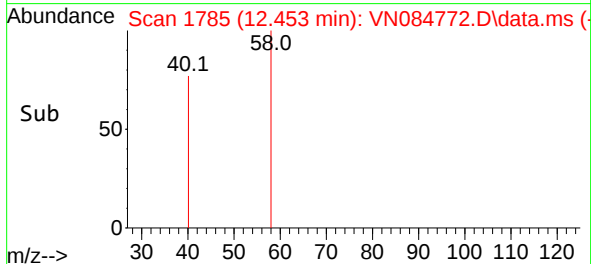
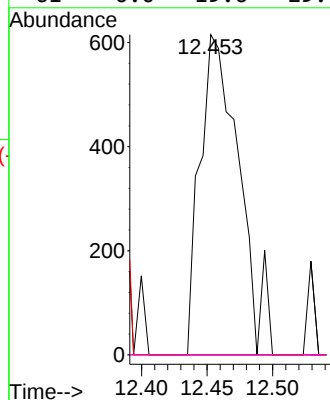
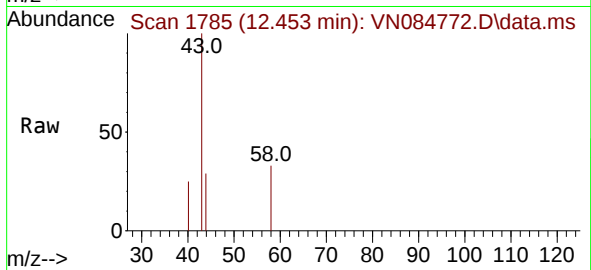
Ion Ratio Lower Upper

43 100

70 0.0 34.4 51.6#

55 0.0 19.6 29.4#

61 0.0 19.6 29.4#



#76

1,2,3-Trichloropropane

Concen: 29.857 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN084772.D

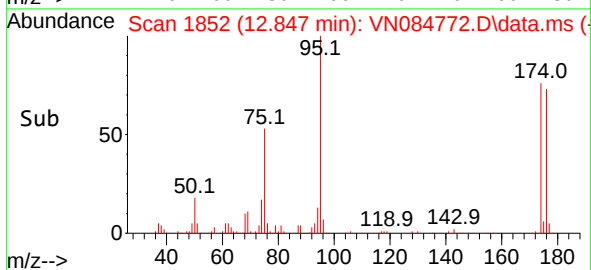
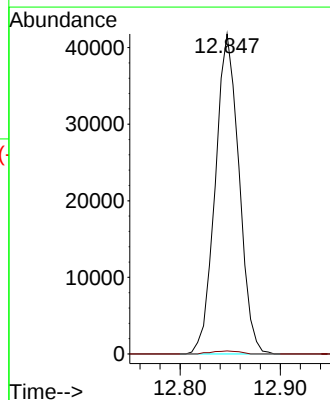
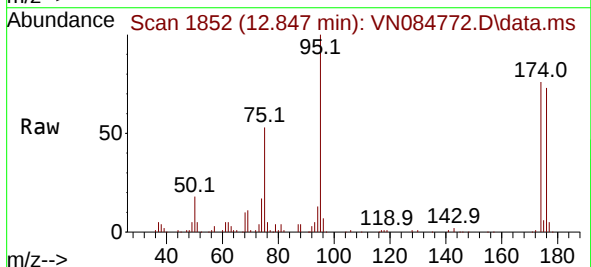
Acq: 11 Nov 2024 15:18

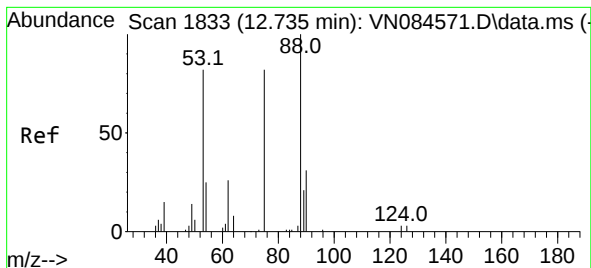
Tgt Ion: 75 Resp: 68749

Ion Ratio Lower Upper

75 100

77 1.1 96.9 290.7#

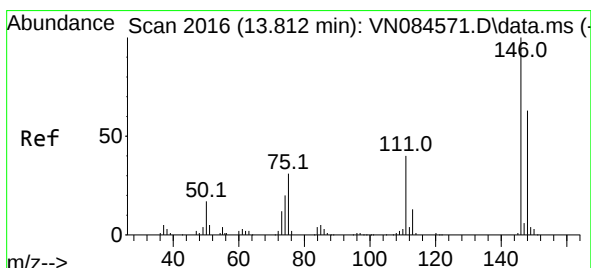
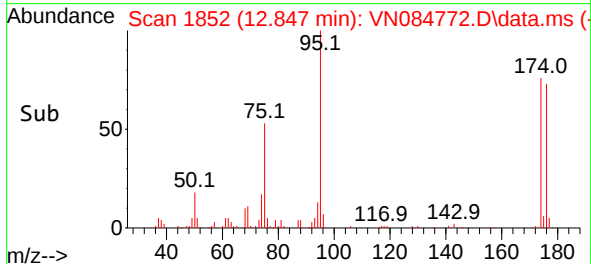
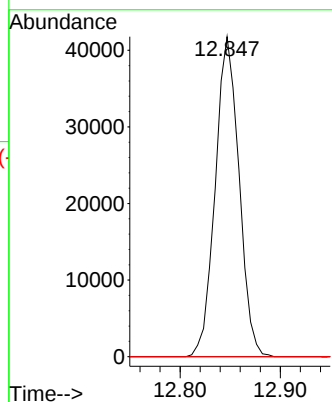
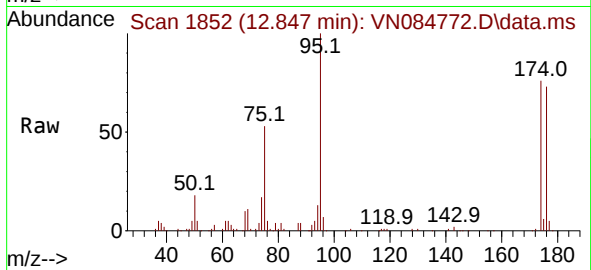




#81
trans-1,4-Dichloro-2-butene
Concen: 70.833 ug/l
RT: 12.847 min Scan# 1833
Delta R.T. 0.112 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

Instrument :
MSVOA_N
ClientSampleId :
WC-1(5.5)

Tgt Ion: 75 Resp: 68749
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 35.5 53.3#



#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

Tgt Ion:146 Resp: 536
Ion Ratio Lower Upper
146 100
111 0.0 21.2 63.6#
148 0.0 31.9 95.9#

