

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084599.D
 Acq On : 31 Oct 2024 04:33
 Operator : JC\MD
 Sample : P4611-12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4

Quant Time: Nov 01 05:20:36 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)

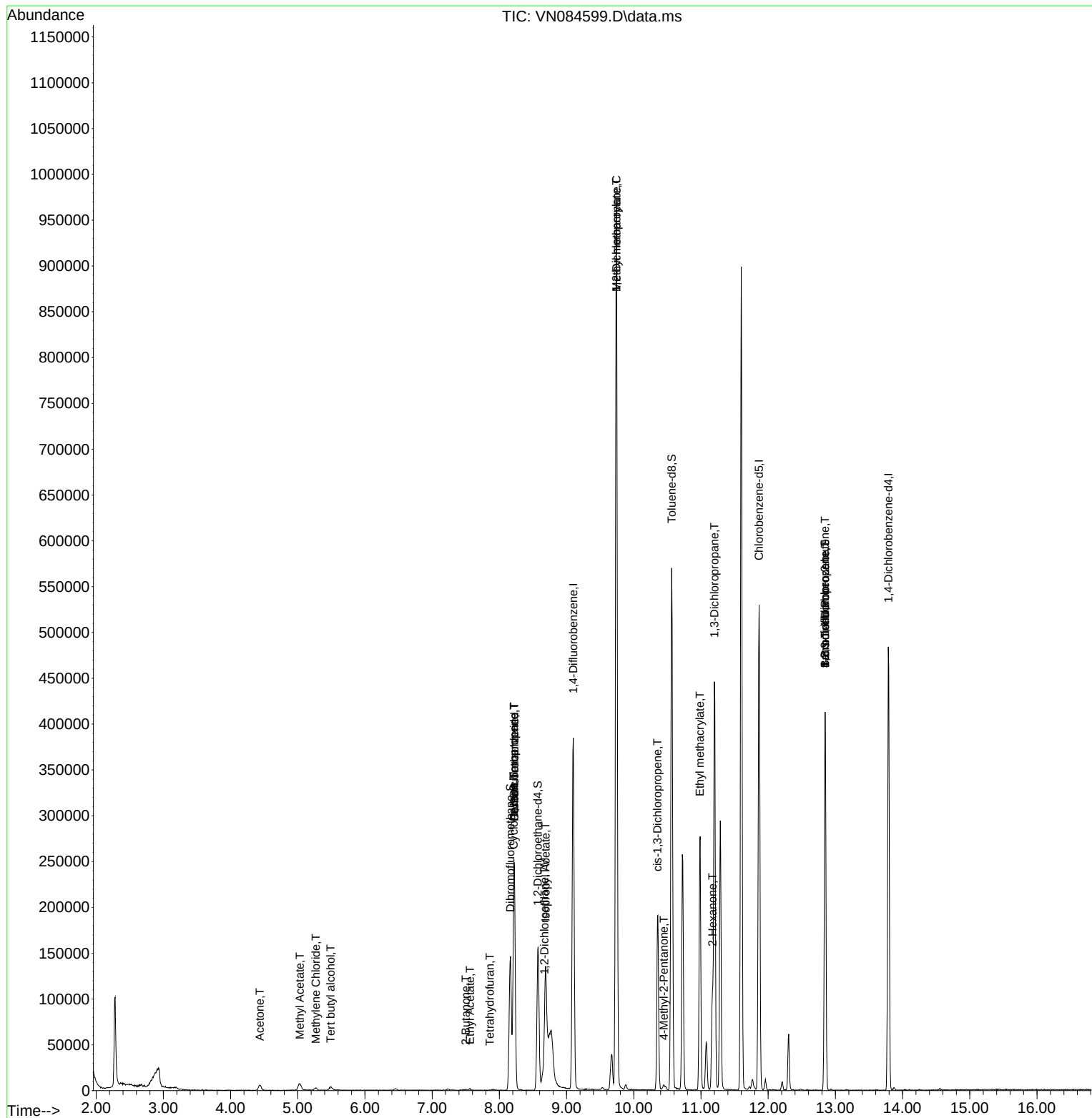
Internal Standards						
1) Pentafluorobenzene	8.224	168	176854	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	330083	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	302284	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	128849	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	132308	51.797	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.600%			
35) Dibromofluoromethane	8.165	113	106378	47.612	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.220%			
50) Toluene-d8	10.565	98	389895	47.373	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.740%			
62) 4-Bromofluorobenzene	12.847	95	143236	46.567	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.140%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1340	Below Cal		96
6) Chloroethane	3.136	64	516	Below Cal	#	45
11) Tert butyl alcohol	5.489	59	3209	9.517 ug/l	#	73
16) Acetone	4.436	43	12391	14.102 ug/l		97
18) Methyl Acetate	5.030	43	16162	2.178 ug/l		98
20) Methylene Chloride	5.271	84	1880	0.837 ug/l	#	60
25) 2-Butanone	7.500	43	1257	1.055 ug/l	#	48
29) Tetrahydrofuran	7.859	42	186	0.235 ug/l	#	34
31) Cyclohexane	8.212	56	3998	1.134 ug/l	#	1
36) 1,1-Dichloropropene	8.218	75	14772	4.767 ug/l	#	45
37) Ethyl Acetate	7.565	43	2689	0.956 ug/l	#	84
38) Carbon Tetrachloride	8.224	117	19399	5.601 ug/l	#	15
42) 1,2-Dichloroethane	8.671	62	852	0.264 ug/l	#	75
43) Isopropyl Acetate	8.688	43	185709	35.475 ug/l	#	78
45) 1,2-Dichloropropane	9.741	63	1108	0.475 ug/l	#	44
48) Methyl methacrylate	9.741	41	86343	39.462 ug/l	#	42
51) 4-Methyl-2-Pentanone	10.447	43	7620	2.843 ug/l	#	63
54) cis-1,3-Dichloropropene	10.353	75	36023	9.470 ug/l	#	61
56) Ethyl methacrylate	10.982	69	1698	0.535 ug/l	#	1
57) 1,3-Dichloropropane	11.200	76	4345	1.155 ug/l	#	42
59) 2-Hexanone	11.171	43	86021	44.095 ug/l	#	24
71) Bromoform	12.847	173	904	0.511 ug/l	#	1
76) 1,2,3-Trichloropropane	12.847	75	75711	29.395 ug/l	#	1
81) trans-1,4-Dichloro-2-b...	12.847	75	75711	69.737 ug/l	#	11

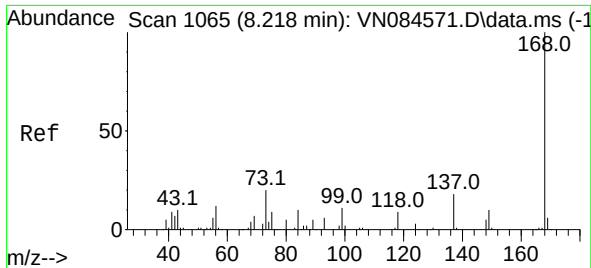
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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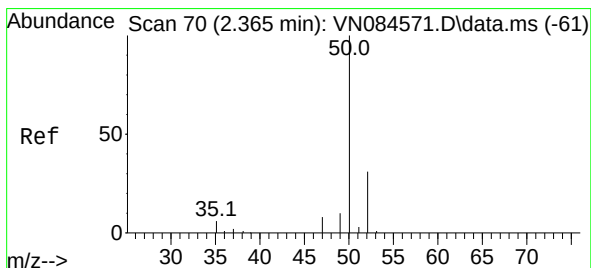
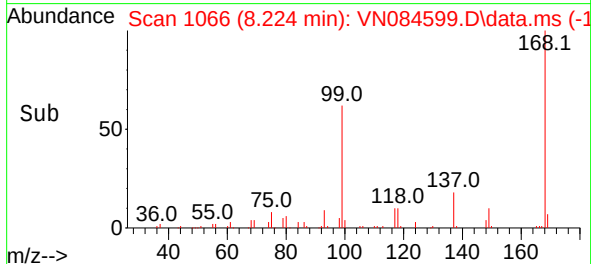
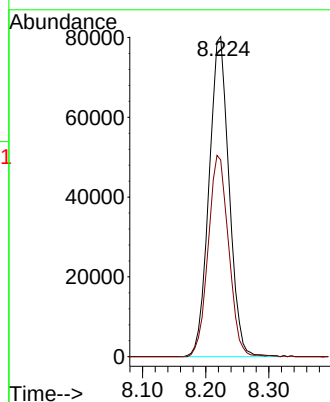
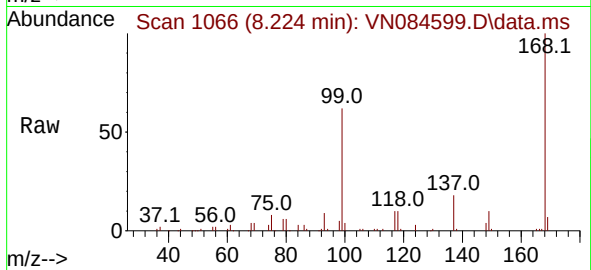




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084599.D
Acq: 31 Oct 2024 04:33

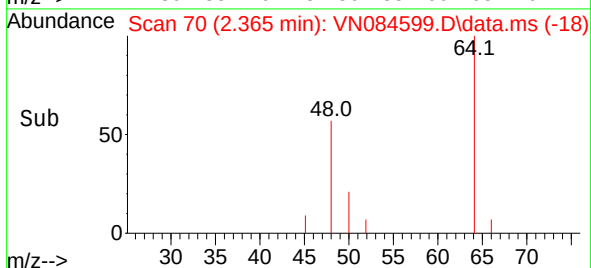
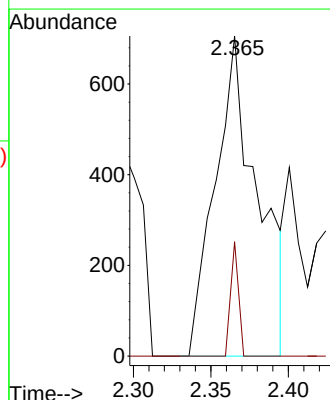
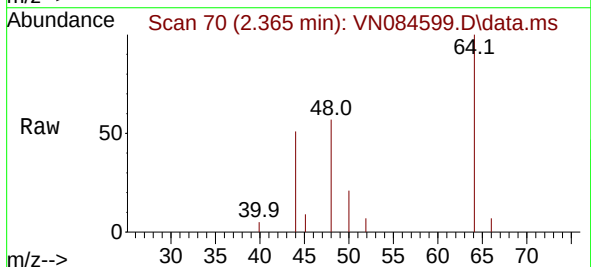
Instrument :
MSVOA_N
ClientSampleId :
TP-4

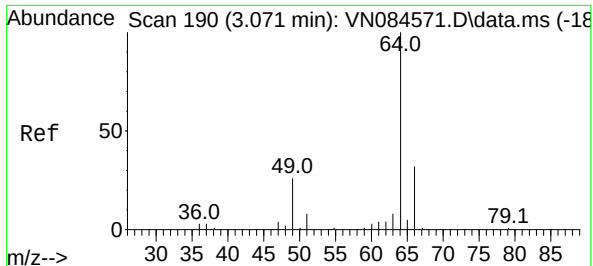
Tgt Ion:168 Resp: 176854
Ion Ratio Lower Upper
168 100
99 61.5 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN084599.D
Acq: 31 Oct 2024 04:33

Tgt Ion: 50 Resp: 1340
Ion Ratio Lower Upper
50 100
52 35.7 26.8 40.2

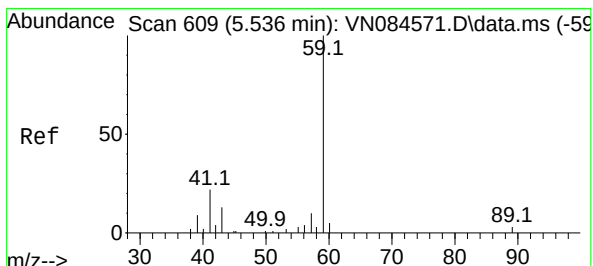
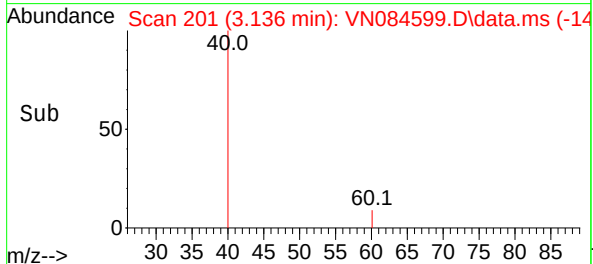
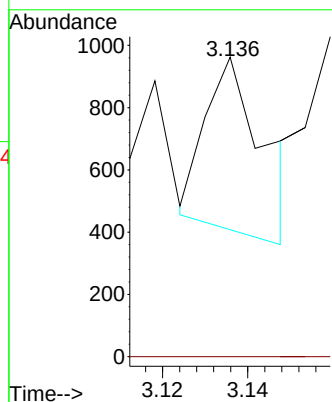
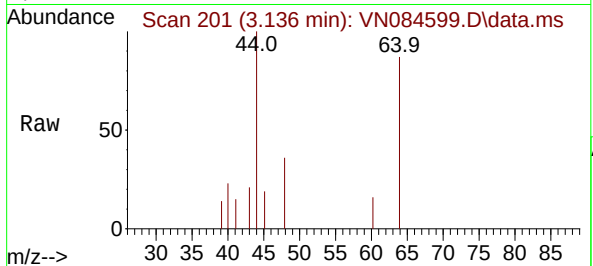




#6
Chloroethane
Concen: Below Cal
RT: 3.136 min Scan# 201
Delta R.T. 0.018 min
Lab File: VN084599.D
Acq: 31 Oct 2024 04:33

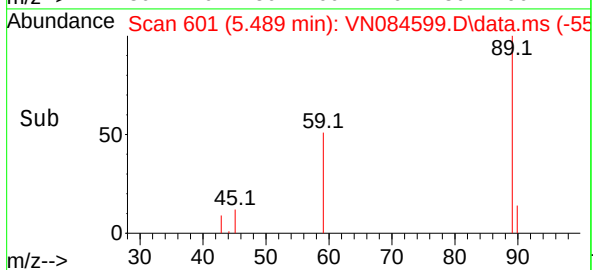
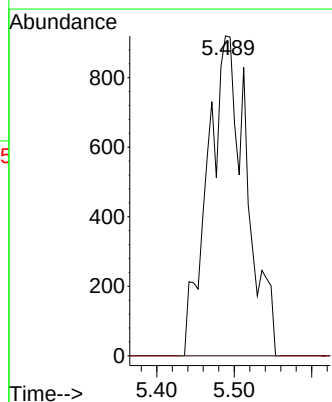
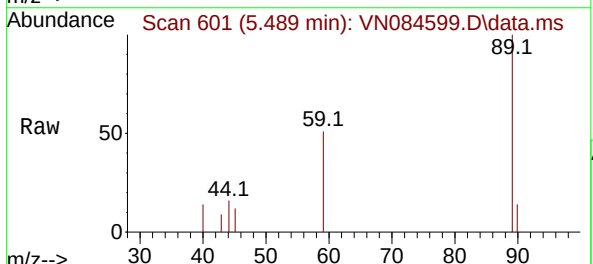
Instrument :
MSVOA_N
ClientSampleId :
TP-4

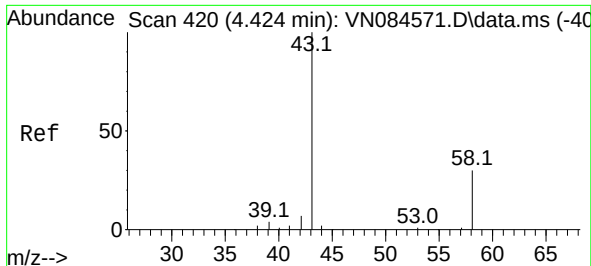
Tgt Ion: 64 Resp: 516
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#



#11
Tert butyl alcohol
Concen: 9.517 ug/l
RT: 5.489 min Scan# 601
Delta R.T. -0.035 min
Lab File: VN084599.D
Acq: 31 Oct 2024 04:33

Tgt Ion: 59 Resp: 3209
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

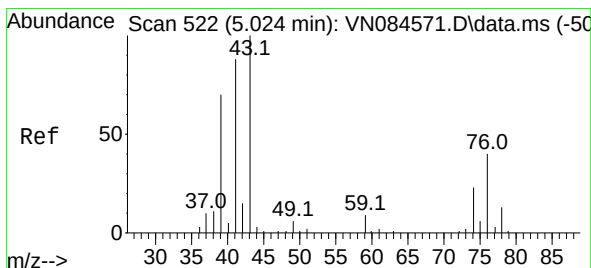
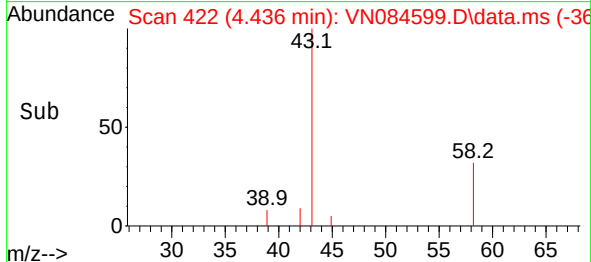
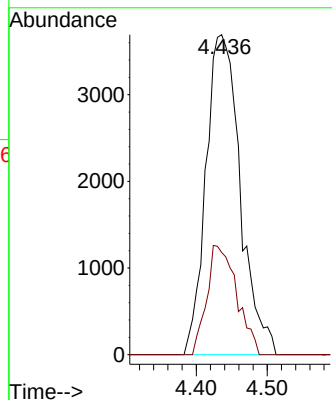
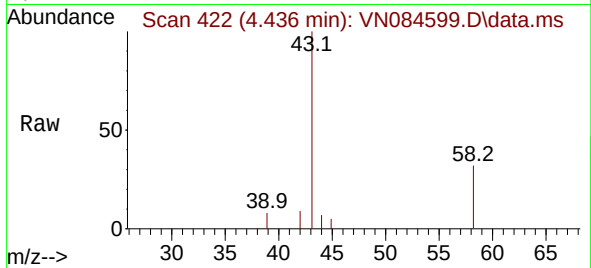




#16
Acetone
Concen: 14.102 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN084599.D
Acq: 31 Oct 2024 04:33

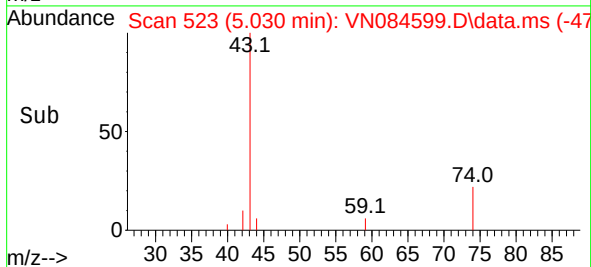
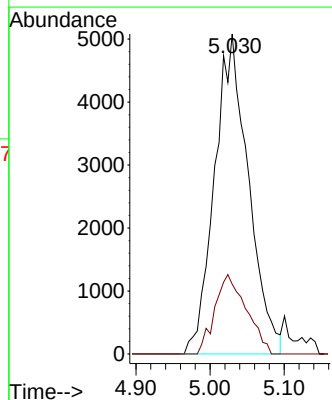
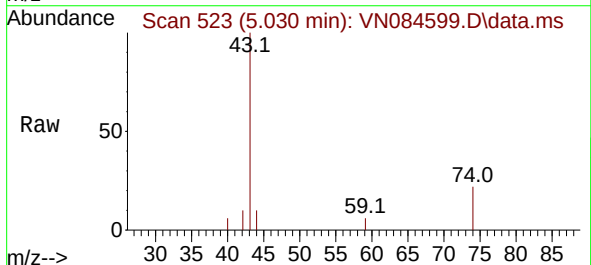
Instrument :
MSVOA_N
ClientSampleId :
TP-4

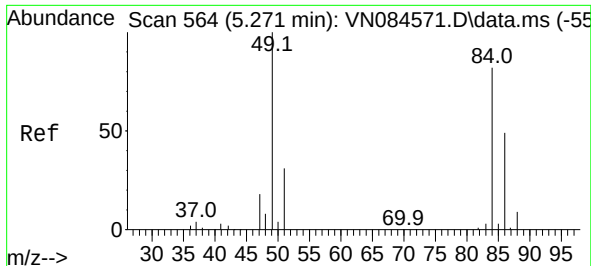
Tgt Ion: 43 Resp: 12391
Ion Ratio Lower Upper
43 100
58 32.0 24.4 36.6



#18
Methyl Acetate
Concen: 2.178 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN084599.D
Acq: 31 Oct 2024 04:33

Tgt Ion: 43 Resp: 16162
Ion Ratio Lower Upper
43 100
74 23.1 19.2 28.8

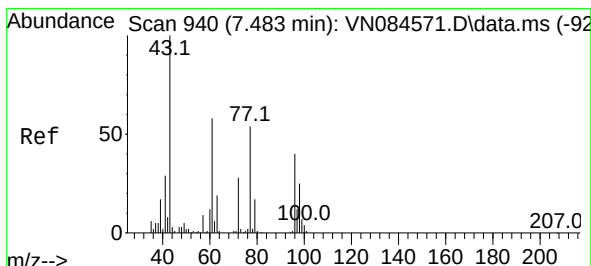
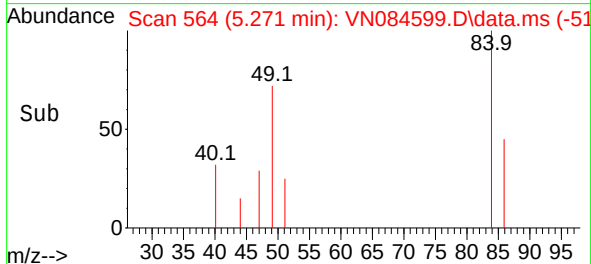
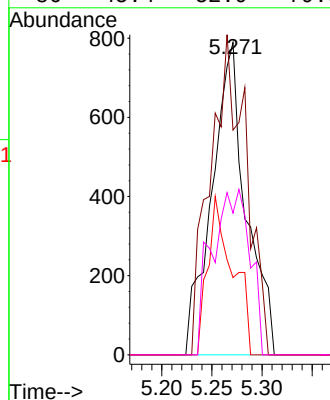
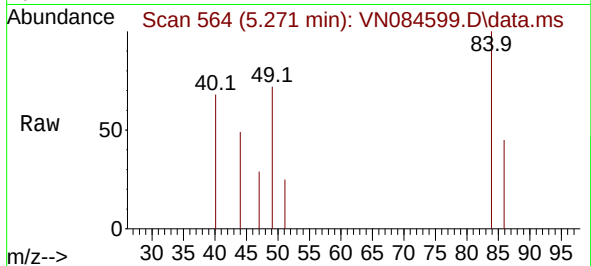




#20
Methylene Chloride
Concen: 0.837 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN084599.D
Acq: 31 Oct 2024 04:33

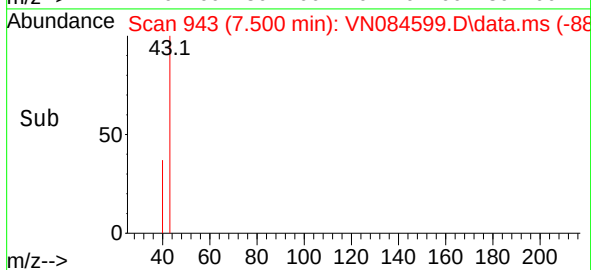
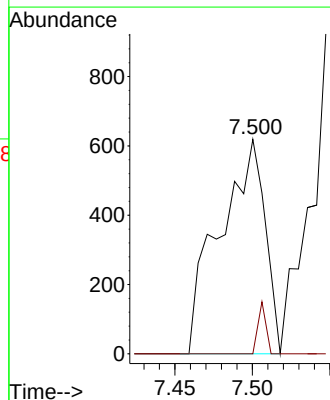
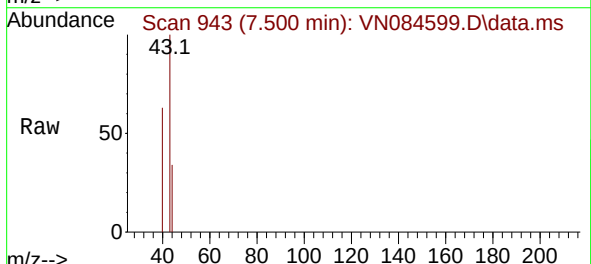
Instrument :
MSVOA_N
ClientSampleId :
TP-4

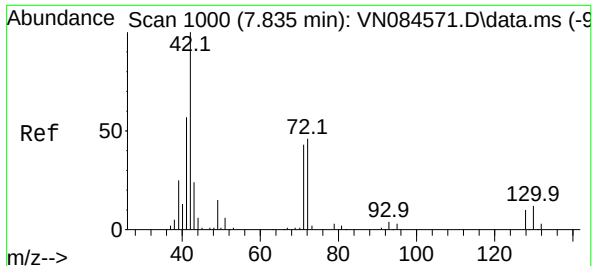
Tgt Ion: 84	Resp: 1880
Ion Ratio	Lower Upper
84 100	
49 72.0	107.2 160.8#
51 24.7	31.8 47.8#
86 45.4	52.9 79.3#



#25
2-Butanone
Concen: 1.055 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.018 min
Lab File: VN084599.D
Acq: 31 Oct 2024 04:33

Tgt Ion: 43	Resp: 1257
Ion Ratio	Lower Upper
43 100	
72 0.0	21.4 32.2#





#29

Tetrahydrofuran

Concen: 0.235 ug/l

RT: 7.859 min Scan# 1

Delta R.T. 0.024 min

Lab File: VN084599.D

Acq: 31 Oct 2024 04:33

Instrument :

MSVOA_N

ClientSampleId :

TP-4

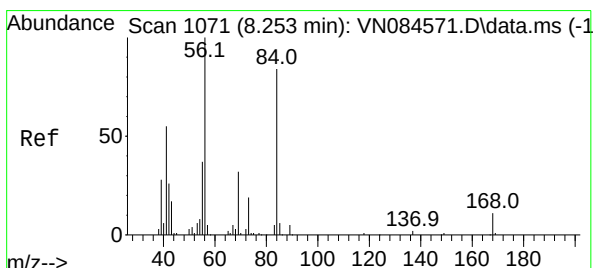
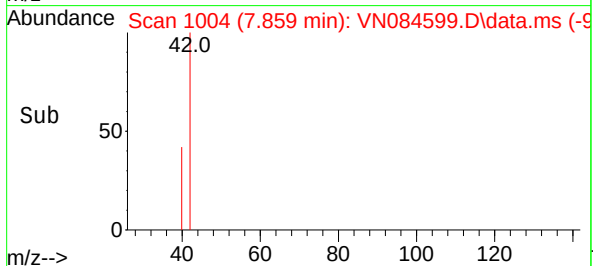
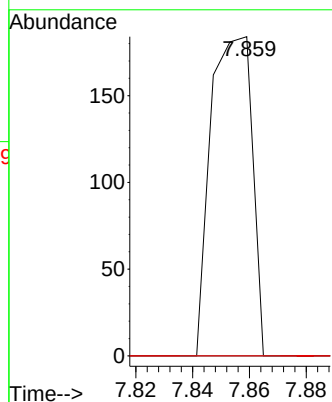
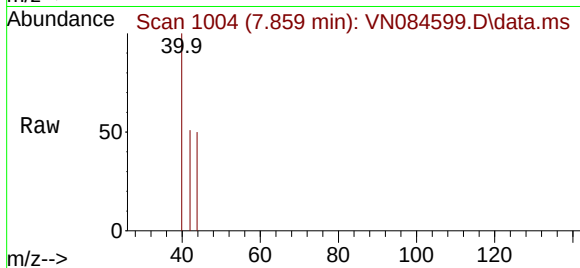
Tgt Ion: 42 Resp: 186

Ion Ratio Lower Upper

42 100

72 0.0 34.6 51.8#

71 0.0 32.2 48.4#



#31

Cyclohexane

Concen: 1.134 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.041 min

Lab File: VN084599.D

Acq: 31 Oct 2024 04:33

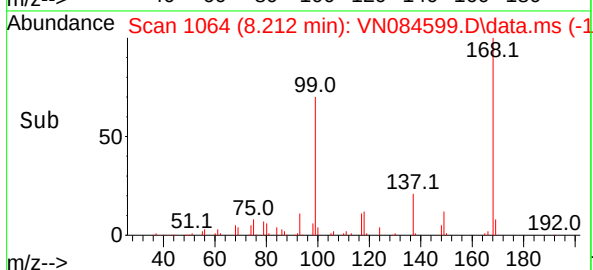
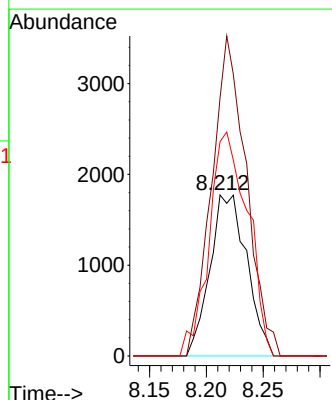
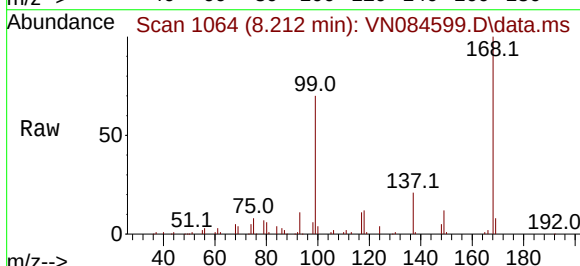
Tgt Ion: 56 Resp: 3998

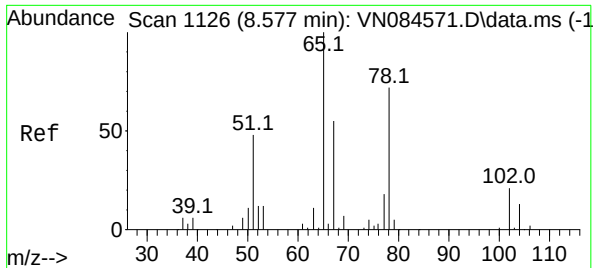
Ion Ratio Lower Upper

56 100

69 160.3 23.8 35.6#

84 133.1 68.8 103.2#

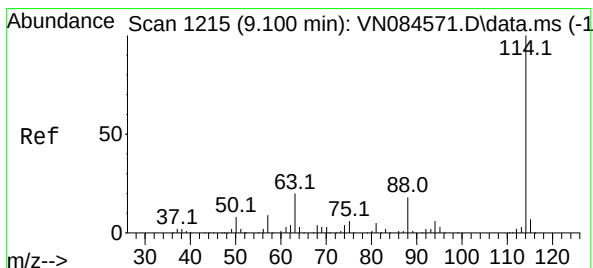
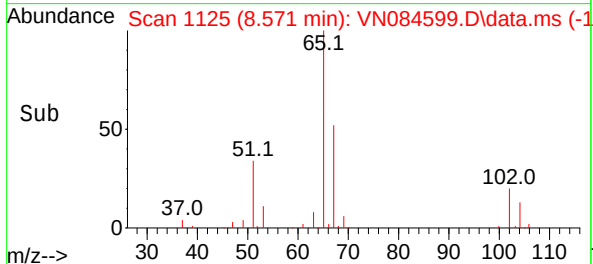
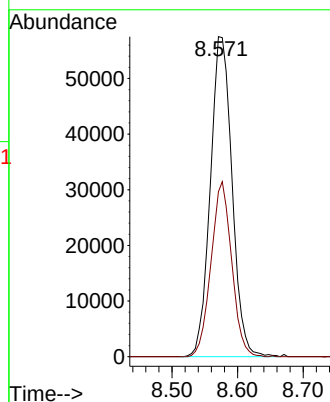
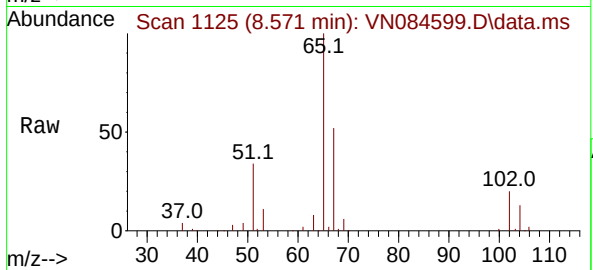




#33
 1,2-Dichloroethane-d4
 Concen: 51.797 ug/l
 RT: 8.571 min Scan# 1126
 Delta R.T. -0.006 min
 Lab File: VN084599.D
 Acq: 31 Oct 2024 04:33

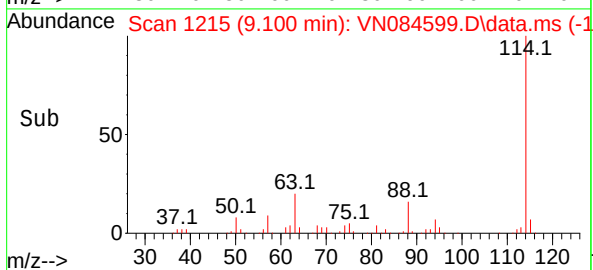
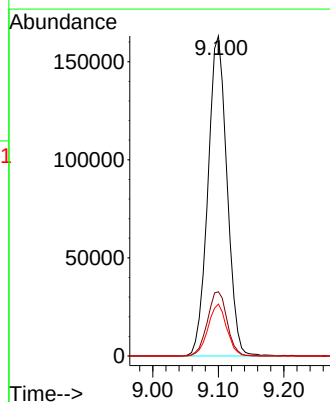
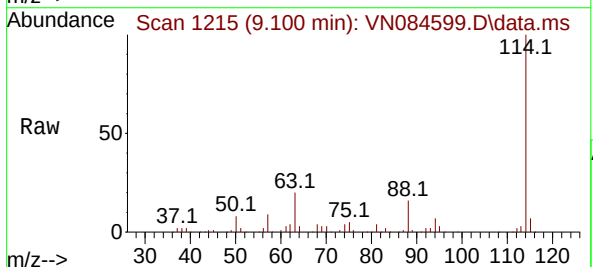
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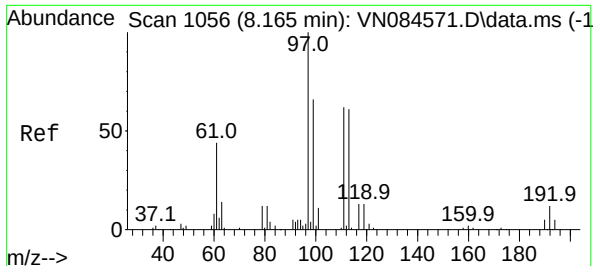
Tgt Ion: 65 Resp: 132308
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.000 min
 Lab File: VN084599.D
 Acq: 31 Oct 2024 04:33

Tgt Ion:114 Resp: 330083
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 43.8
 88 16.2 0.0 31.6





#35

Dibromofluoromethane

Concen: 47.612 ug/l

RT: 8.165 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN084599.D

Acq: 31 Oct 2024 04:33

Instrument :

MSVOA_N

ClientSampleId :

TP-4

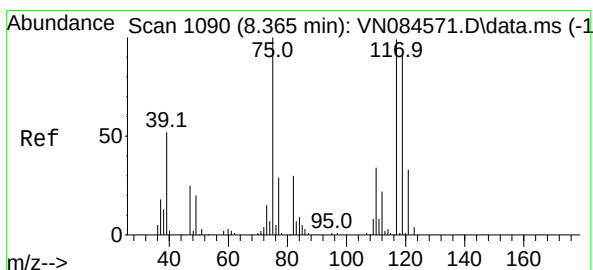
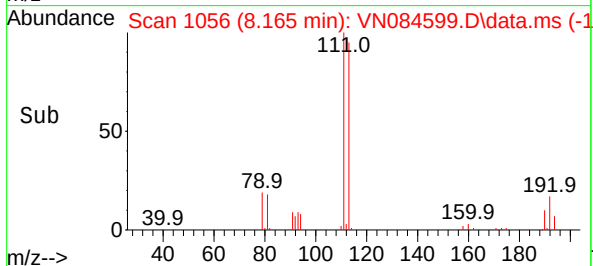
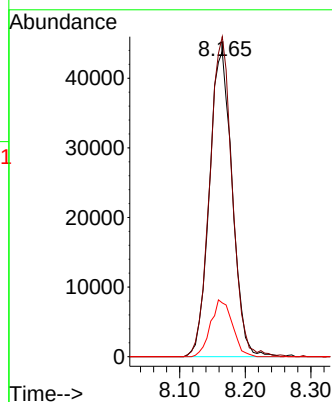
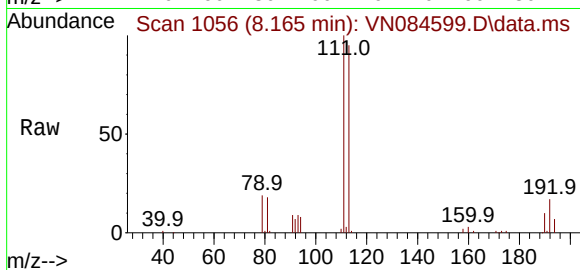
Tgt Ion:113 Resp: 106378

Ion Ratio Lower Upper

113 100

111 102.9 83.3 124.9

192 17.7 13.5 20.3



#36

1,1-Dichloropropene

Concen: 4.767 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

Lab File: VN084599.D

Acq: 31 Oct 2024 04:33

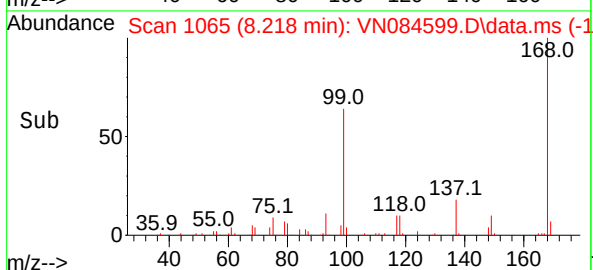
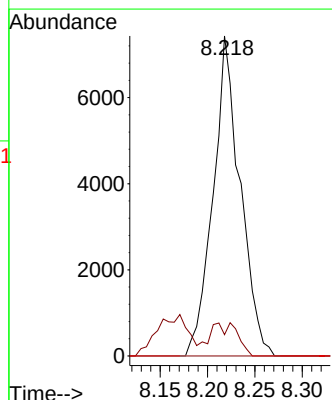
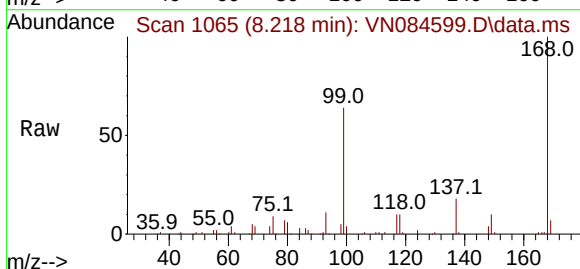
Tgt Ion: 75 Resp: 14772

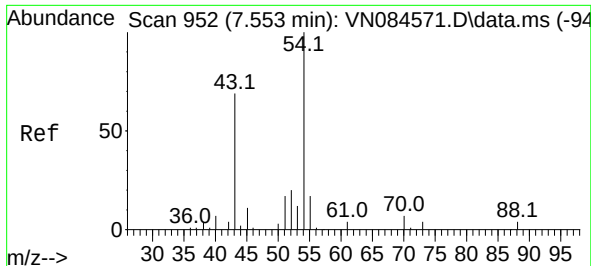
Ion Ratio Lower Upper

75 100

110 3.3 16.9 50.7#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 0.956 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN084599.D

Acq: 31 Oct 2024 04:33

Instrument :

MSVOA_N

ClientSampleId :

TP-4

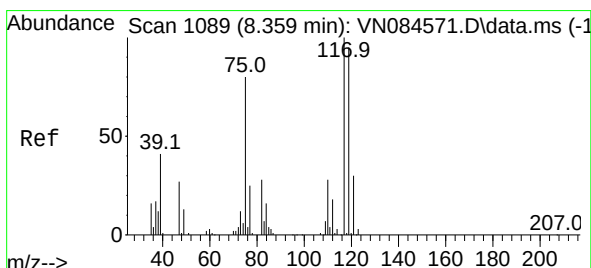
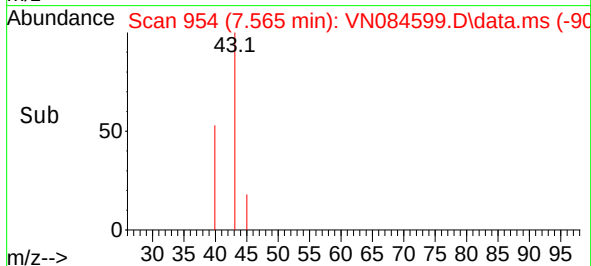
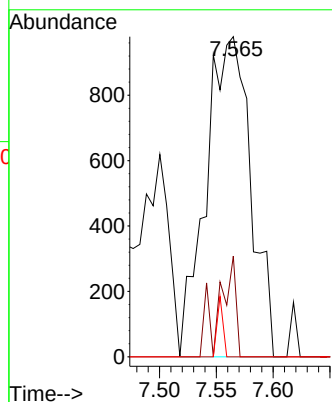
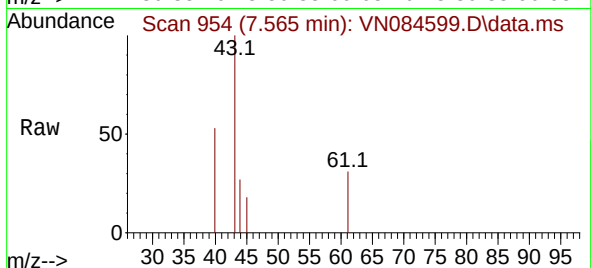
Tgt Ion: 43 Resp: 2689

Ion Ratio Lower Upper

43 100

61 9.1 10.7 16.1#

70 2.4 8.8 13.2#



#38

Carbon Tetrachloride

Concen: 5.601 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN084599.D

Acq: 31 Oct 2024 04:33

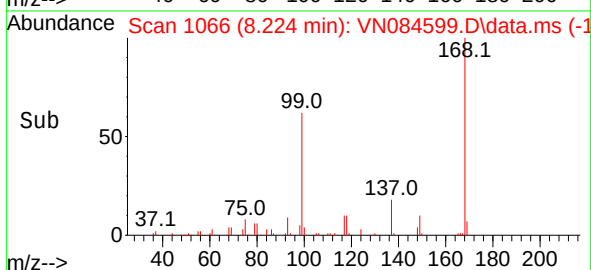
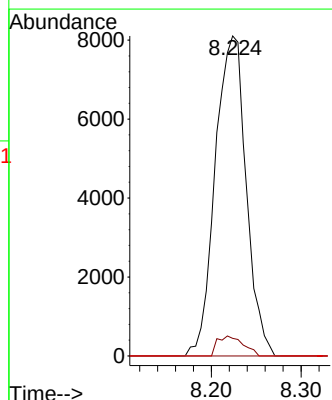
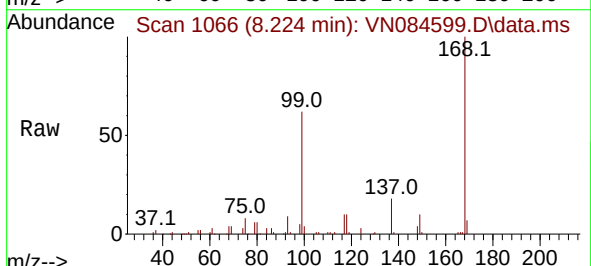
Tgt Ion: 117 Resp: 19399

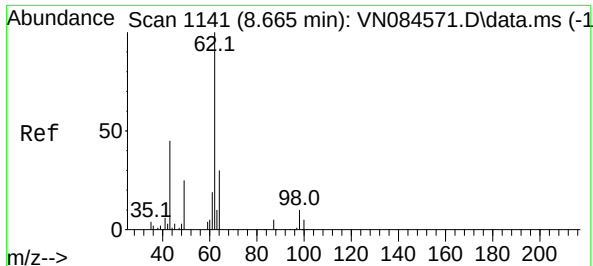
Ion Ratio Lower Upper

117 100

119 5.5 78.7 118.1#

121 0.0 24.4 36.6#

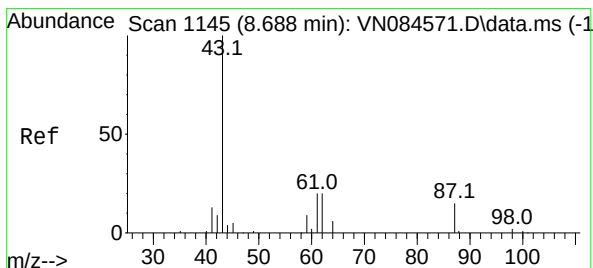
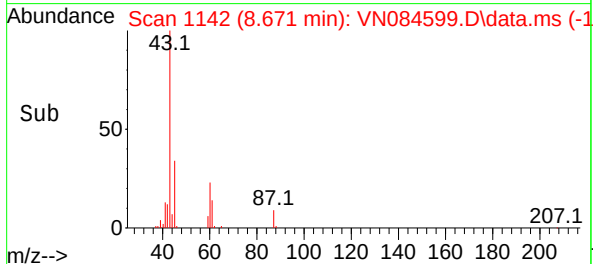
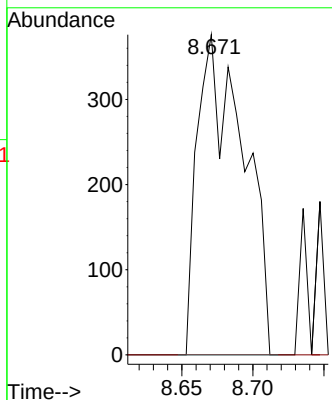
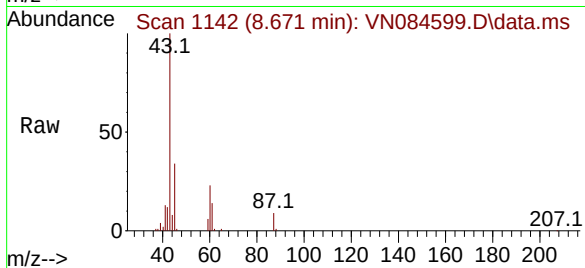




#42
1,2-Dichloroethane
Concen: 0.264 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN084599.D
Acq: 31 Oct 2024 04:33

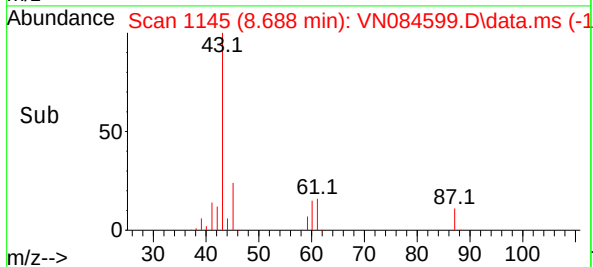
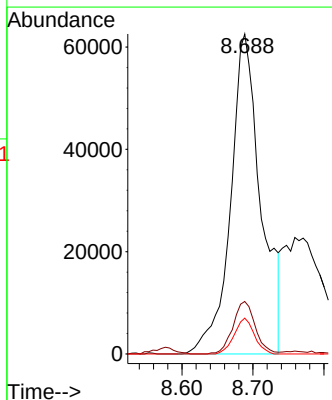
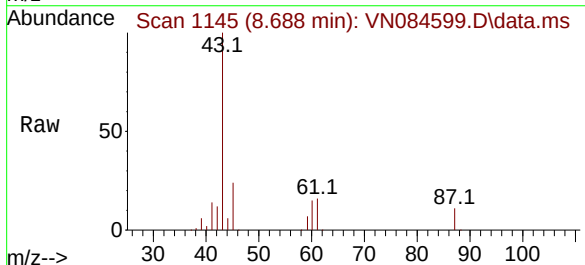
Instrument :
MSVOA_N
ClientSampleId :
TP-4

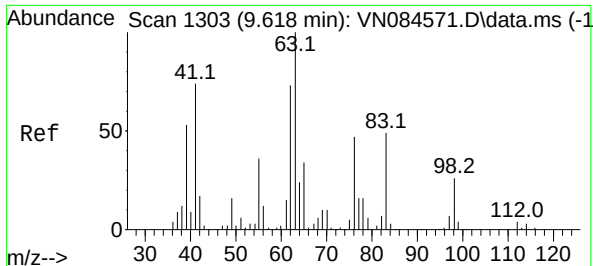
Tgt Ion: 62 Resp: 852
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.2



#43
Isopropyl Acetate
Concen: 35.475 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN084599.D
Acq: 31 Oct 2024 04:33

Tgt Ion: 43 Resp: 185709
Ion Ratio Lower Upper
43 100
61 12.1 20.4 30.6#
87 7.4 10.3 15.5#

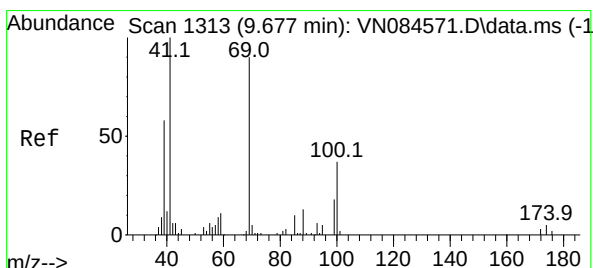
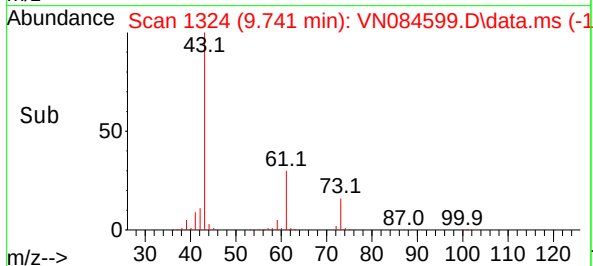
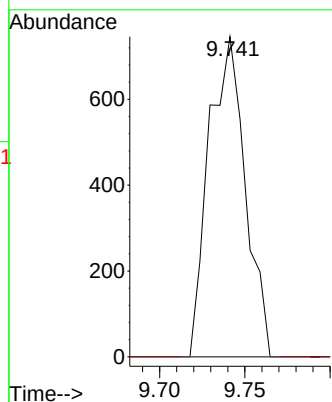
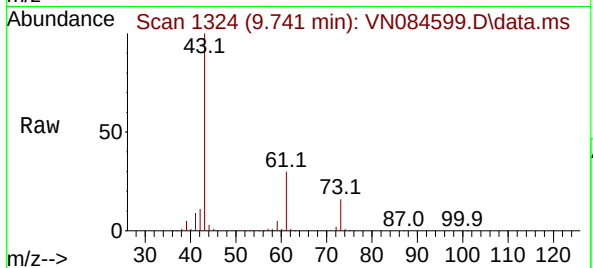




#45
1,2-Dichloropropane
Concen: 0.475 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN084599.D
Acq: 31 Oct 2024 04:33

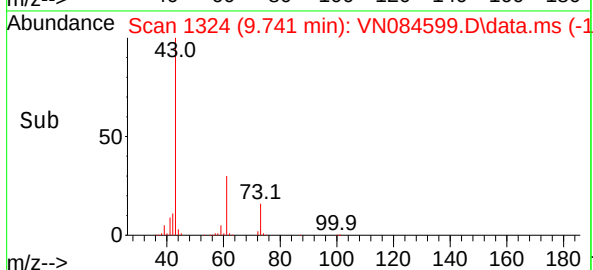
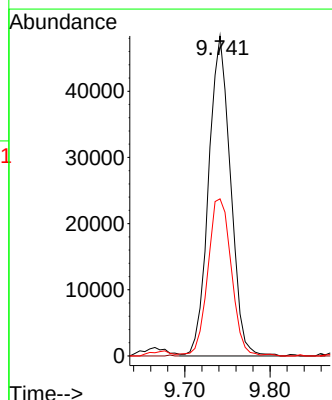
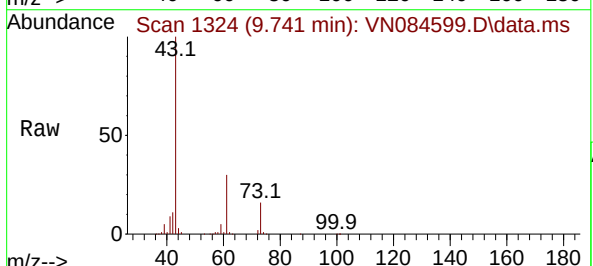
Instrument :
MSVOA_N
ClientSampleId :
TP-4

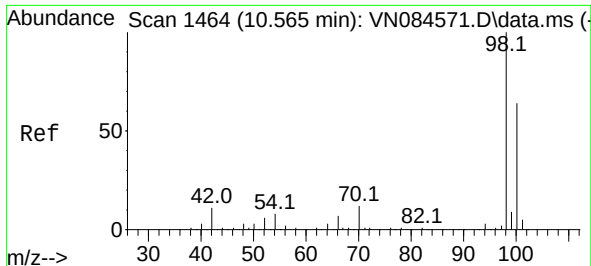
Tgt Ion: 63 Resp: 1108
Ion Ratio Lower Upper
63 100
65 0.0 24.6 37.0#



#48
Methyl methacrylate
Concen: 39.462 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.065 min
Lab File: VN084599.D
Acq: 31 Oct 2024 04:33

Tgt Ion: 41 Resp: 86343
Ion Ratio Lower Upper
41 100
69 0.0 67.1 100.7#
39 52.7 45.8 68.6





#50

Toluene-d8

Concen: 47.373 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084599.D

Acq: 31 Oct 2024 04:33

Instrument :

MSVOA_N

ClientSampleId :

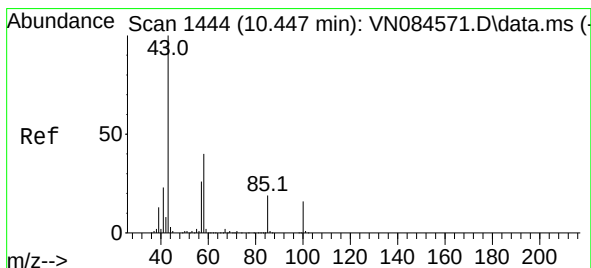
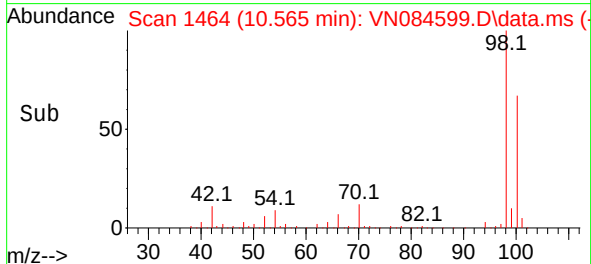
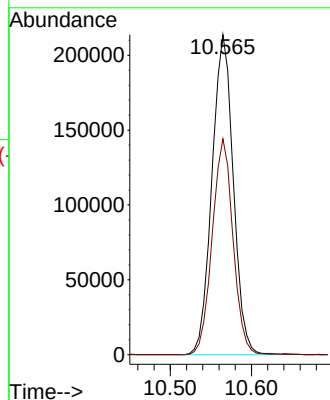
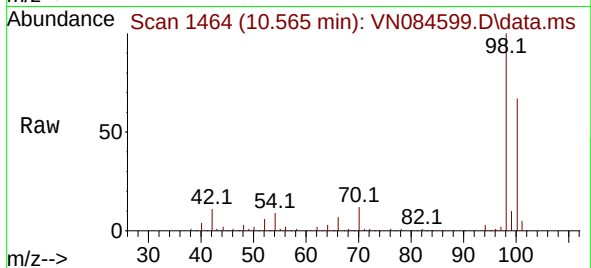
TP-4

Tgt Ion: 98 Resp: 389895

Ion Ratio Lower Upper

98 100

100 65.9 52.7 79.1



#51

4-Methyl-2-Pentanone

Concen: 2.843 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. 0.006 min

Lab File: VN084599.D

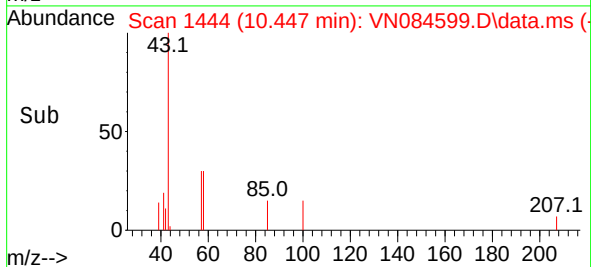
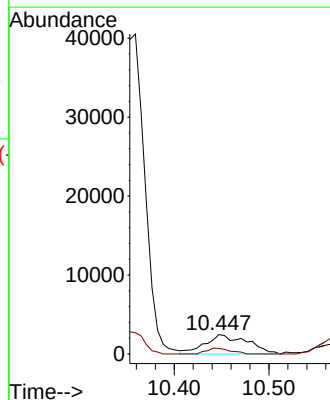
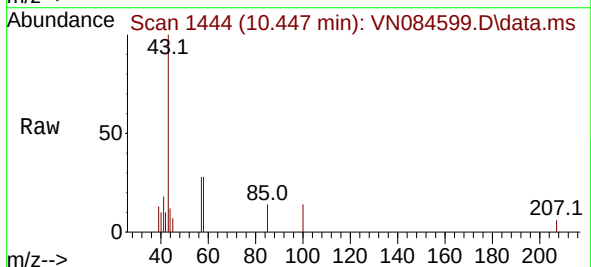
Acq: 31 Oct 2024 04:33

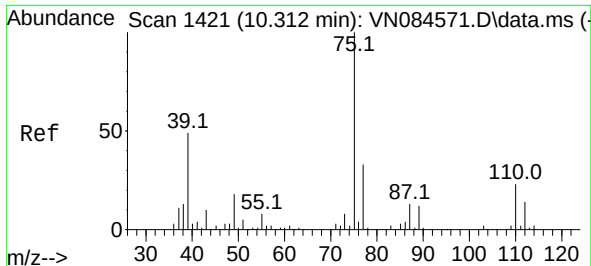
Tgt Ion: 43 Resp: 7620

Ion Ratio Lower Upper

43 100

58 16.9 31.6 47.4#

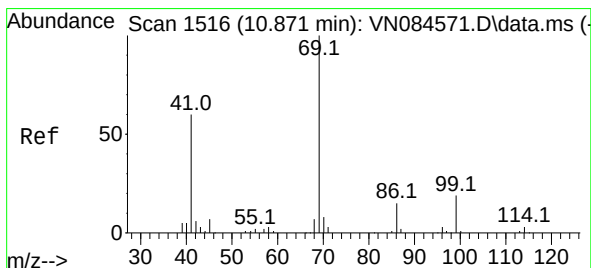
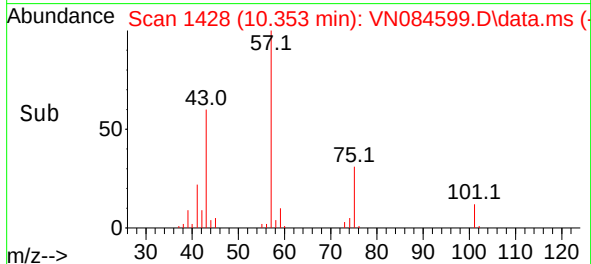
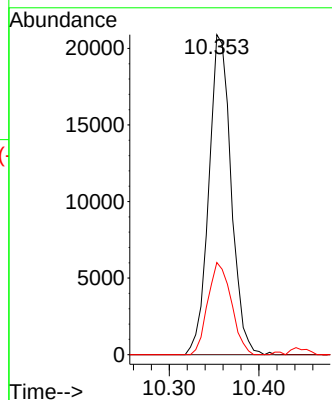
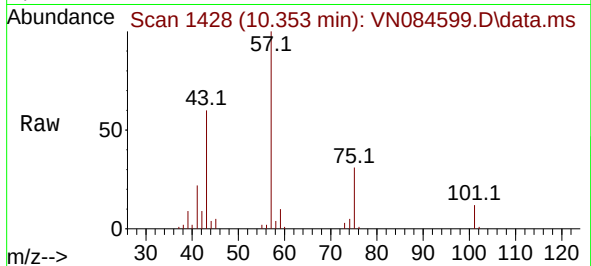




#54
cis-1,3-Dichloropropene
Concen: 9.470 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN084599.D
Acq: 31 Oct 2024 04:33

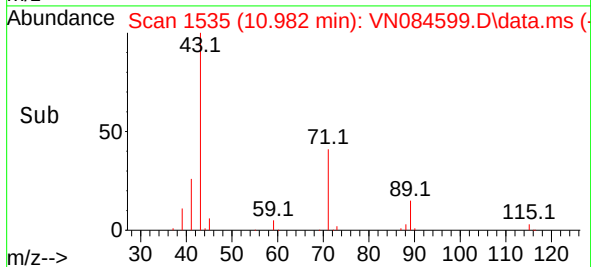
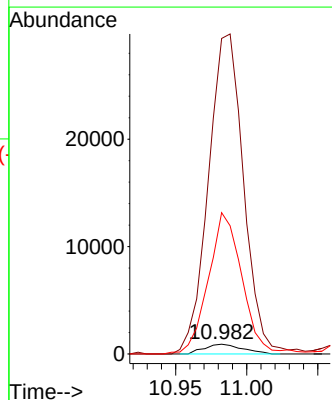
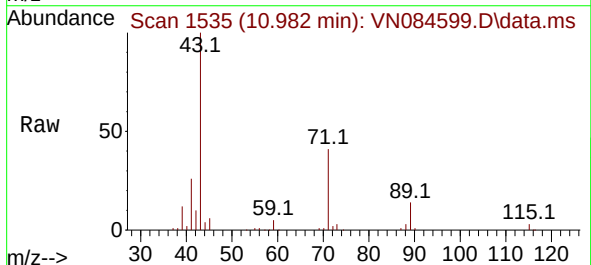
Instrument :
MSVOA_N
ClientSampleId :
TP-4

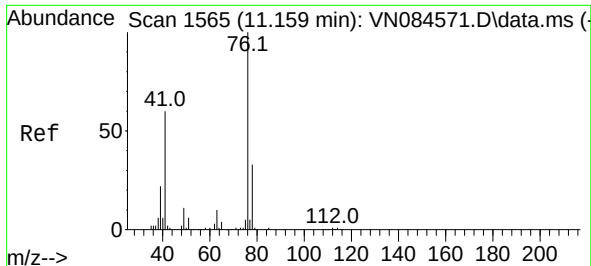
Tgt Ion: 75 Resp: 36023
Ion Ratio Lower Upper
75 100
77 0.0 24.2 36.2#
39 28.8 38.7 58.1#



#56
Ethyl methacrylate
Concen: 0.535 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.112 min
Lab File: VN084599.D
Acq: 31 Oct 2024 04:33

Tgt Ion: 69 Resp: 1698
Ion Ratio Lower Upper
69 100
41 3031.9 53.3 79.9#
39 1280.2 28.8 43.2#





#57

1,3-Dichloropropane

Concen: 1.155 ug/l

RT: 11.200 min Scan# 1567

Delta R.T. 0.041 min

Lab File: VN084599.D

Acq: 31 Oct 2024 04:33

Instrument :

MSVOA_N

ClientSampleId :

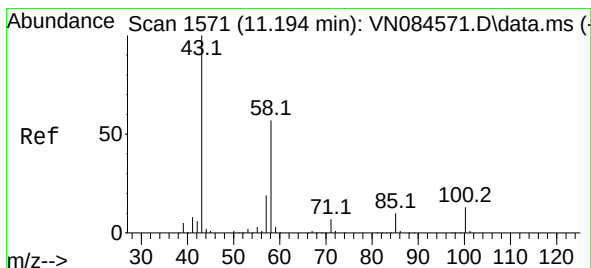
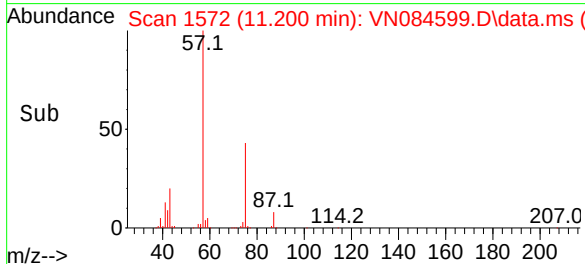
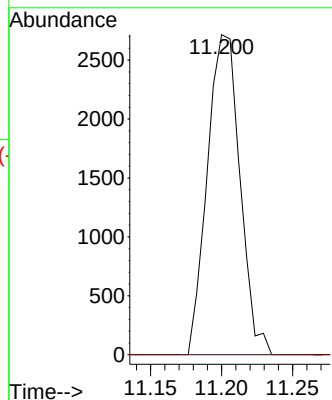
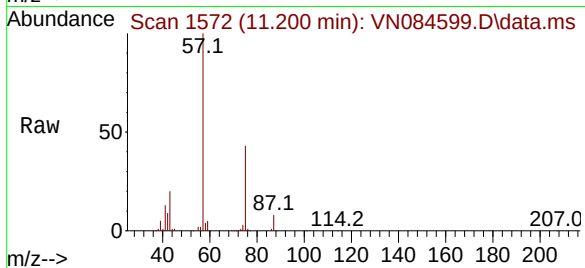
TP-4

Tgt Ion: 76 Resp: 4345

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 44.095 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.024 min

Lab File: VN084599.D

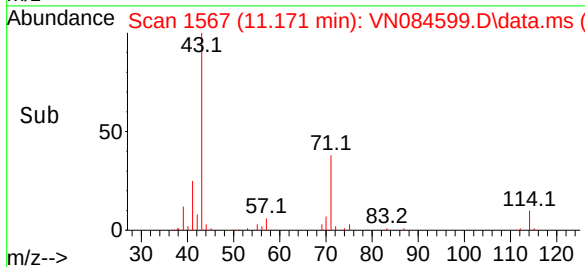
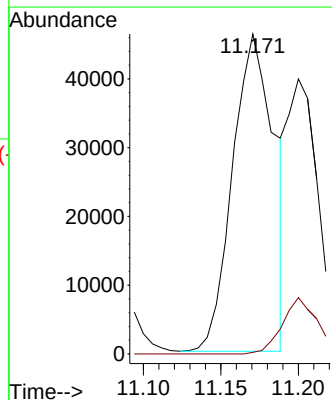
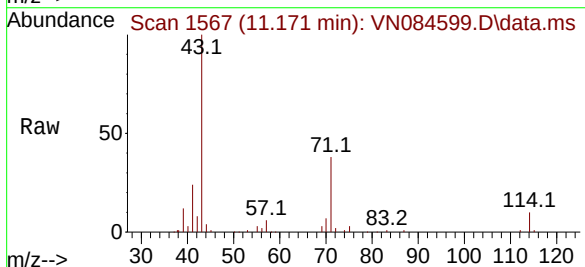
Acq: 31 Oct 2024 04:33

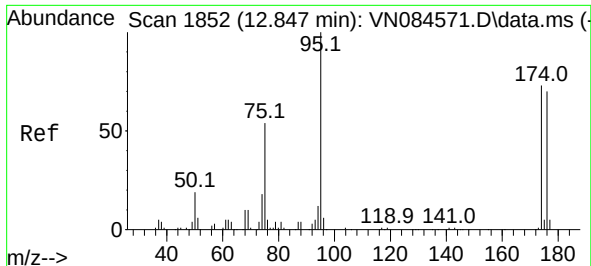
Tgt Ion: 43 Resp: 86021

Ion Ratio Lower Upper

43 100

58 0.0 27.3 81.8#





#62

4-Bromofluorobenzene

Concen: 46.567 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN084599.D

Acq: 31 Oct 2024 04:33

Instrument :

MSVOA_N

ClientSampleId :

TP-4

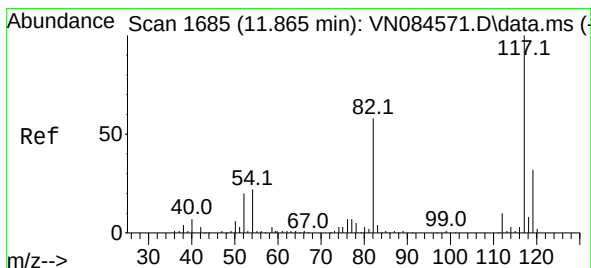
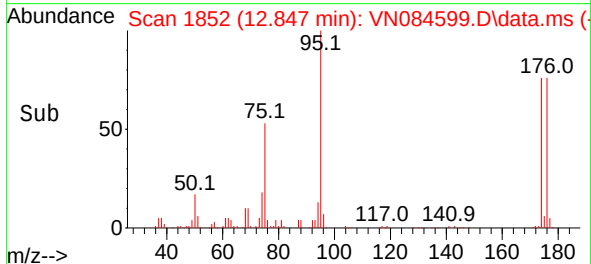
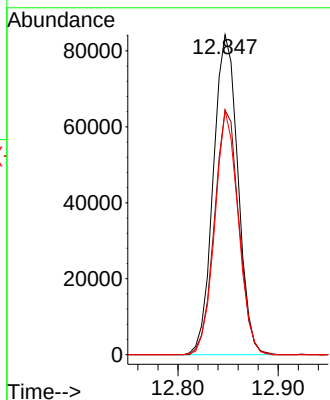
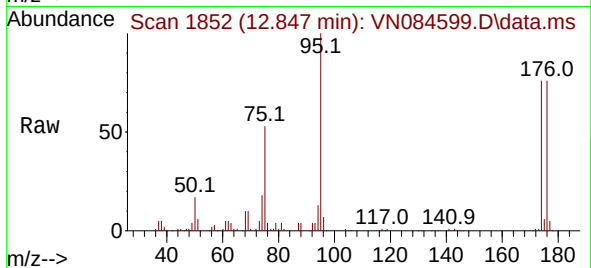
Tgt Ion: 95 Resp: 143236

Ion Ratio Lower Upper

95 100

174 76.0 0.0 145.2

176 72.8 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: VN084599.D

Acq: 31 Oct 2024 04:33

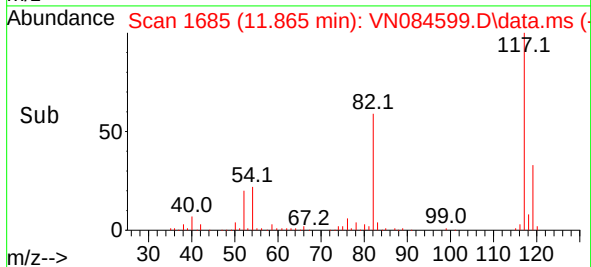
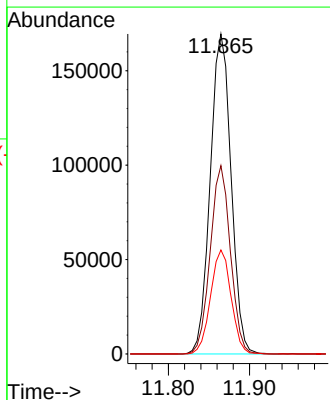
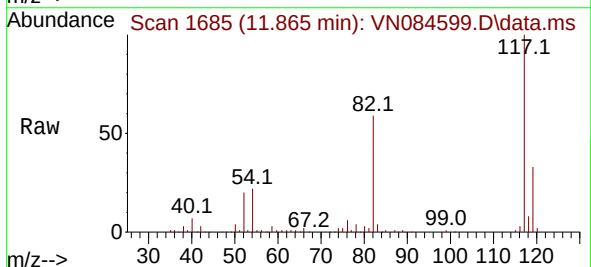
Tgt Ion: 117 Resp: 302284

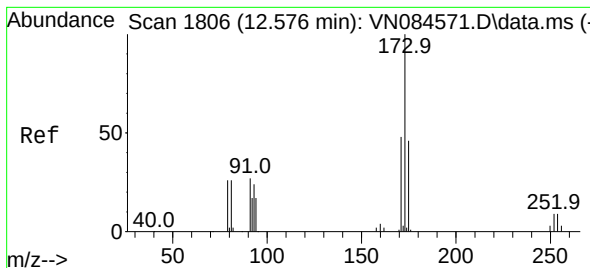
Ion Ratio Lower Upper

117 100

82 58.9 47.2 70.8

119 32.5 25.4 38.0





#71

Bromoform

Concen: 0.511 ug/l

RT: 12.847 min Scan# 1806

Delta R.T. 0.271 min

Lab File: VN084599.D

Acq: 31 Oct 2024 04:33

Instrument :

MSVOA_N

ClientSampleId :

TP-4

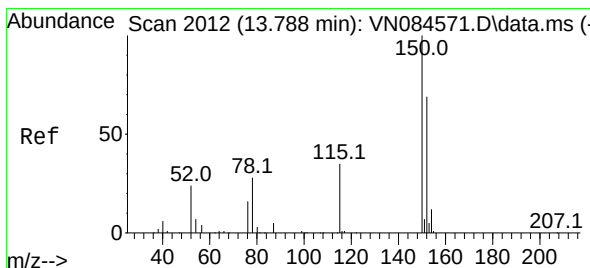
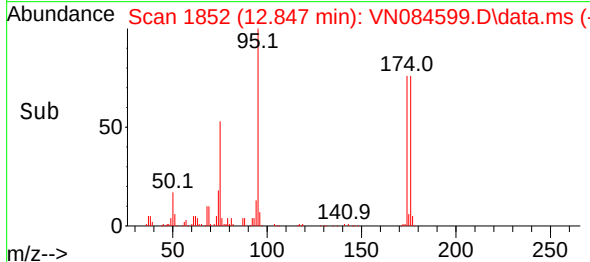
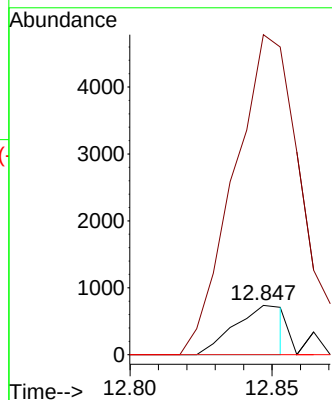
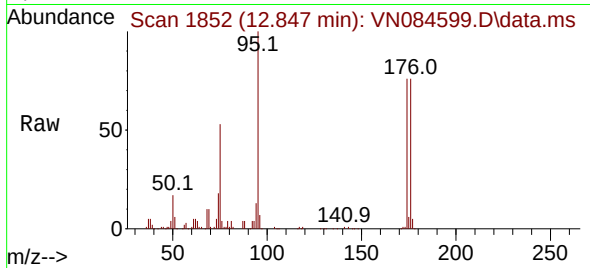
Tgt Ion:173 Resp: 904

Ion Ratio Lower Upper

173 100

175 661.2 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# 1212

Delta R.T. 0.000 min

Lab File: VN084599.D

Acq: 31 Oct 2024 04:33

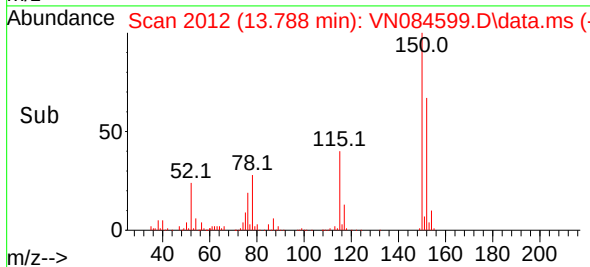
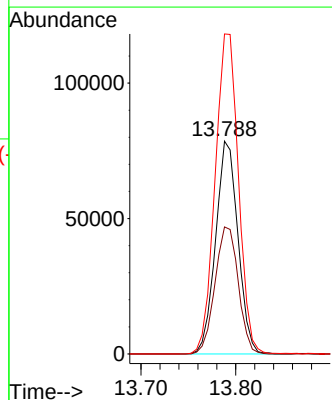
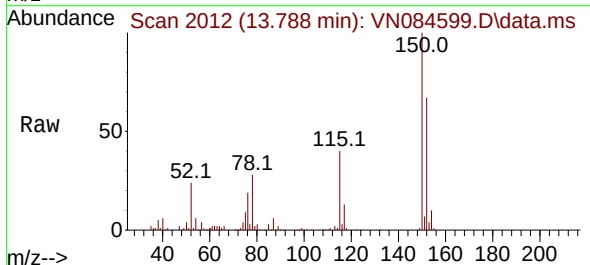
Tgt Ion:152 Resp: 128849

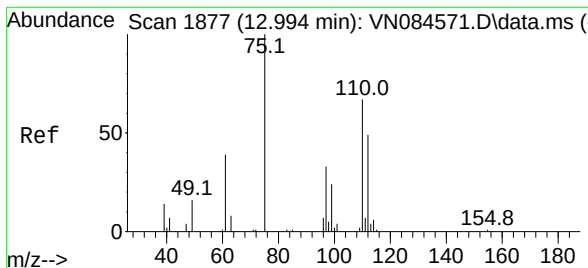
Ion Ratio Lower Upper

152 100

115 62.1 31.3 93.9

150 156.7 0.0 349.8





#76

1,2,3-Trichloropropane

Concen: 29.395 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN084599.D

Acq: 31 Oct 2024 04:33

Instrument :

MSVOA_N

ClientSampleId :

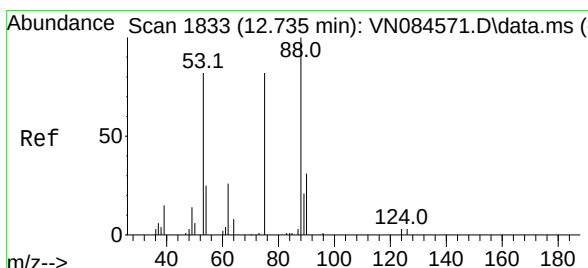
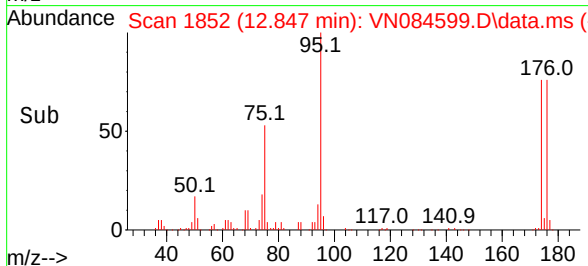
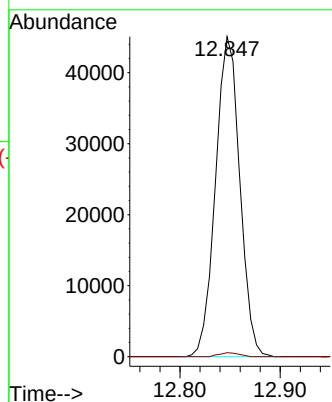
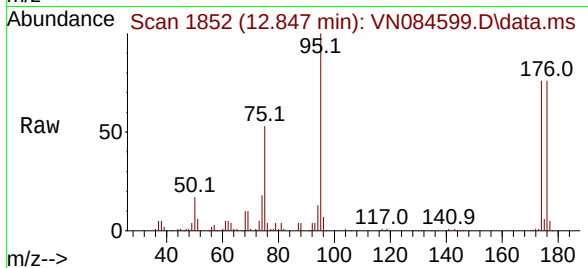
TP-4

Tgt Ion: 75 Resp: 75711

Ion Ratio Lower Upper

75 100

77 1.0 96.9 290.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.737 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN084599.D

Acq: 31 Oct 2024 04:33

Tgt Ion: 75 Resp: 75711

Ion Ratio Lower Upper

75 100

53 0.0 78.0 117.0#

89 0.0 35.5 53.3#

