

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084586.D
 Acq On : 30 Oct 2024 23:22
 Operator : JC\MD
 Sample : P4594-12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-F16

Quant Time: Nov 01 04:58:23 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	182976	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	327656	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	297118	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	130070	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	130036	49.204	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.400%
35) Dibromofluoromethane	8.165	113	105035	47.359	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.720%
50) Toluene-d8	10.565	98	388148	47.510	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	95.020%
62) 4-Bromofluorobenzene	12.847	95	146954	48.129	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	96.260%

Target Compounds

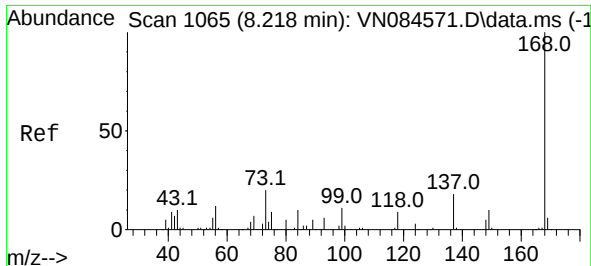
					Qvalue	
3) Chloromethane	2.365	50	1764	Below Cal	#	79
5) Bromomethane	2.900	94	327	0.273	ug/l	87
6) Chloroethane	3.147	64	521	Below Cal	#	45
11) Tert butyl alcohol	5.500	59	856	2.454	ug/l	# 73
13) Acrolein	4.177	56	161	0.463	ug/l	# 14
16) Acetone	4.442	43	21479	25.575	ug/l	# 95
18) Methyl Acetate	5.036	43	8554	Below Cal		92
20) Methylene Chloride	5.259	84	2160	0.929	ug/l	# 76
25) 2-Butanone	7.488	43	2322	1.883	ug/l	# 48
29) Tetrahydrofuran	7.835	42	183	0.224	ug/l	# 34
31) Cyclohexane	8.218	56	4207	1.153	ug/l	# 20
36) 1,1-Dichloropropene	8.218	75	15705	5.106	ug/l	# 50
37) Ethyl Acetate	7.559	43	2564	0.919	ug/l	# 79
38) Carbon Tetrachloride	8.224	117	20068	5.837	ug/l	# 16
42) 1,2-Dichloroethane	8.665	62	910	0.284	ug/l	# 75
43) Isopropyl Acetate	8.688	43	137562	26.223	ug/l	# 85
45) 1,2-Dichloropropane	9.747	63	1219	0.526	ug/l	# 44
48) Methyl methacrylate	9.671	41	3068	1.413	ug/l	# 42
49) 1,4-Dioxane	9.735	88	57	1.481	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.447	43	3728	1.401	ug/l	92
54) cis-1,3-Dichloropropene	10.359	75	39046	10.341	ug/l	# 62
56) Ethyl methacrylate	10.982	69	1548	0.492	ug/l	# 1
57) 1,3-Dichloropropane	11.200	76	4660	1.248	ug/l	# 42
59) 2-Hexanone	11.171	43	95844	49.495	ug/l	# 24
74) N-amyl acetate	12.488	43	1079	0.278	ug/l	# 42
76) 1,2,3-Trichloropropane	12.847	75	75706	29.117	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.847	75	75706	69.078	ug/l	# 11
88) 1,4-Dichlorobenzene	13.817	146	773	Below Cal	#	24

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

Instrument :
MSVOA_N
ClientSampleId :
BP-F16

Instrument :
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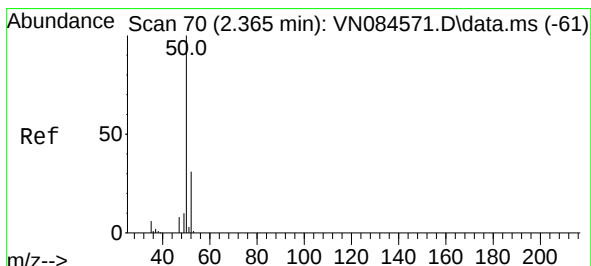
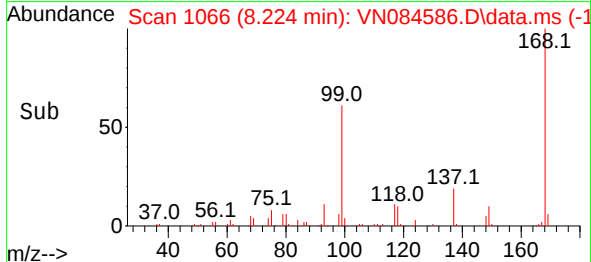
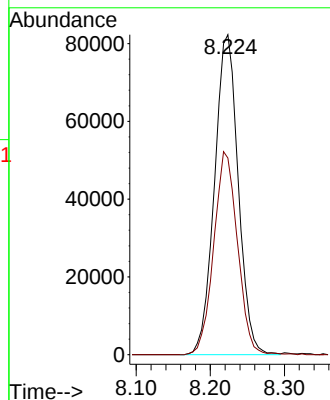
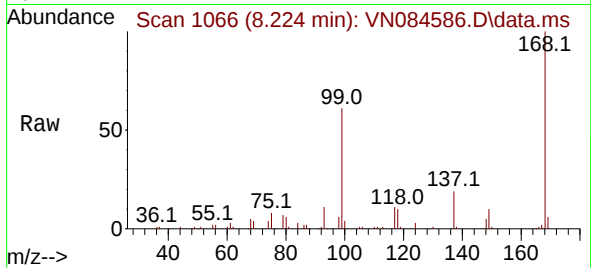




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

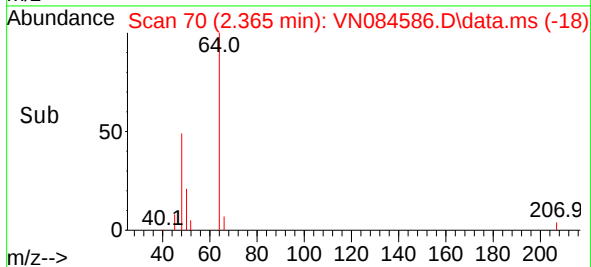
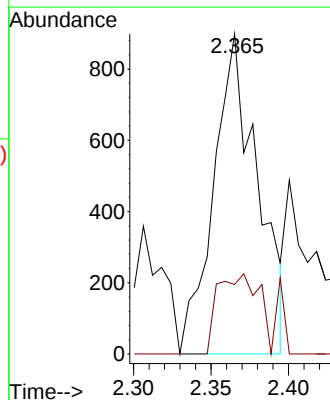
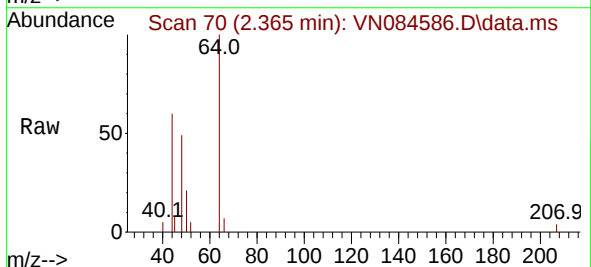
Instrument :
MSVOA_N
ClientSampleId :
BP-F16

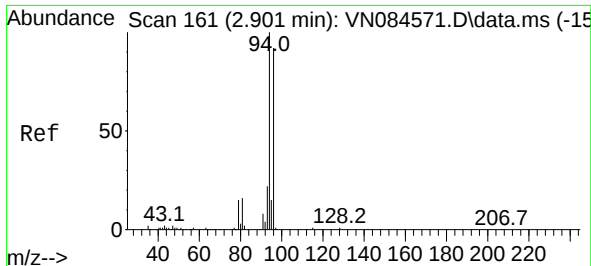
Tgt Ion:168 Resp: 182976
Ion Ratio Lower Upper
168 100
99 61.4 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

Tgt Ion: 50 Resp: 1764
Ion Ratio Lower Upper
50 100
52 21.7 26.8 40.2#

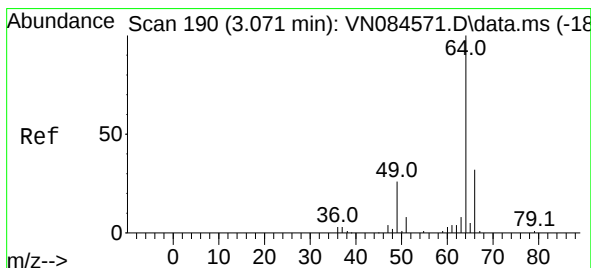
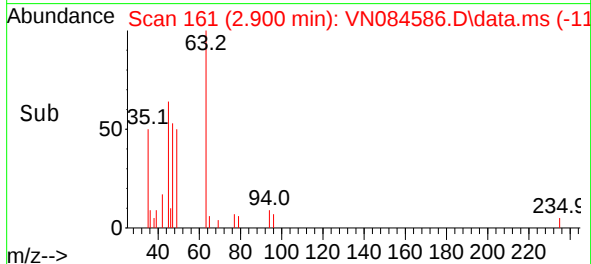
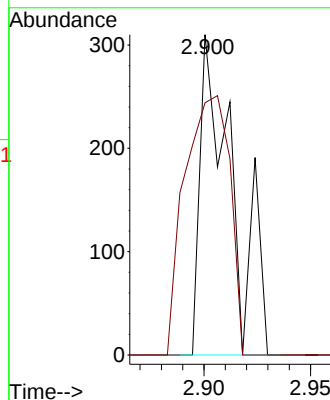
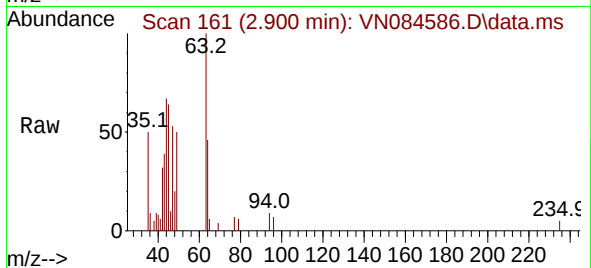




#5
Bromomethane
Concen: 0.273 ug/l
RT: 2.900 min Scan# 11
Delta R.T. -0.053 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

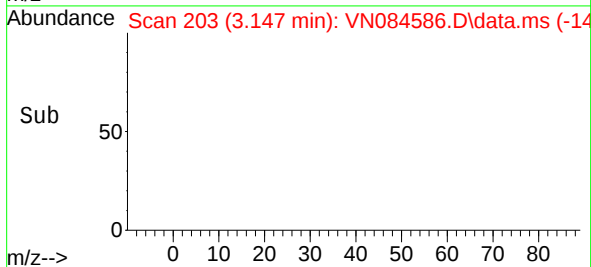
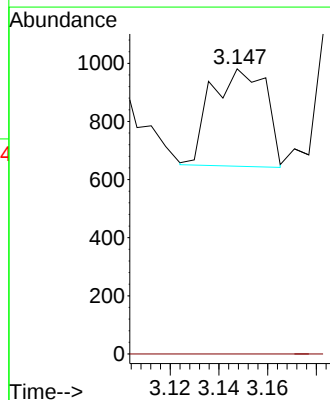
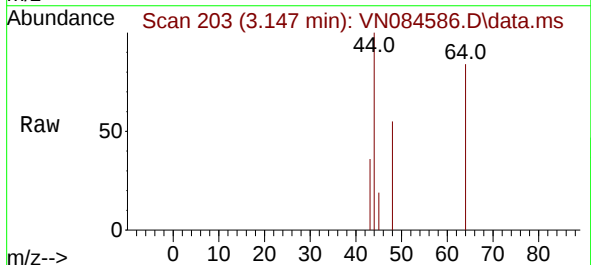
Instrument :
MSVOA_N
ClientSampleId :
BP-F16

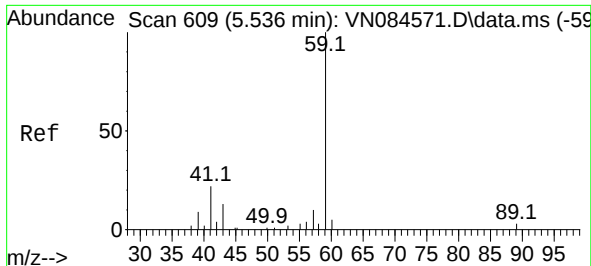
Tgt Ion: 94 Resp: 327
Ion Ratio Lower Upper
94 100
96 78.7 72.9 109.3



#6
Chloroethane
Concen: Below Cal
RT: 3.147 min Scan# 203
Delta R.T. 0.029 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

Tgt Ion: 64 Resp: 521
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#

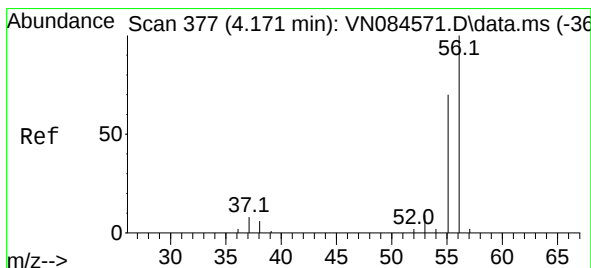
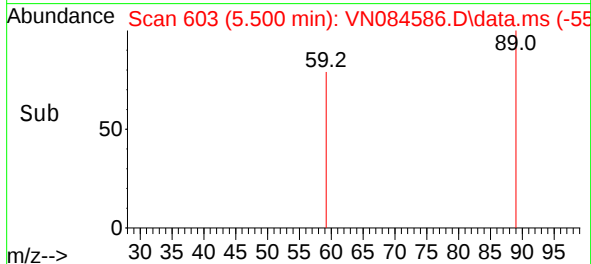
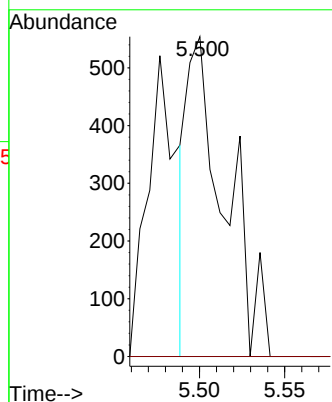
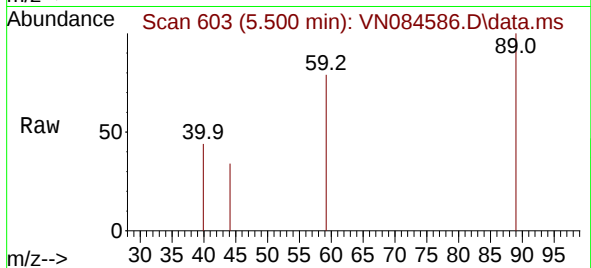




#11
Tert butyl alcohol
Concen: 2.454 ug/l
RT: 5.500 min Scan# 609
Delta R.T. -0.024 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

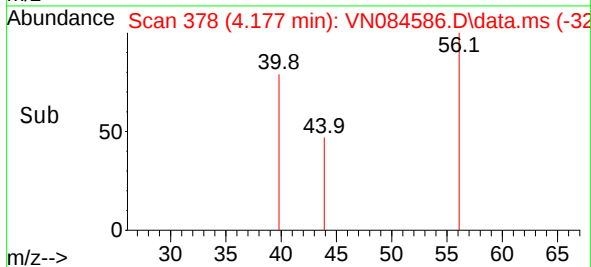
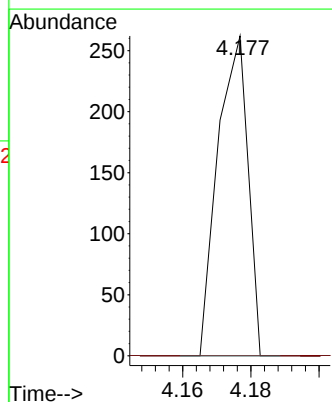
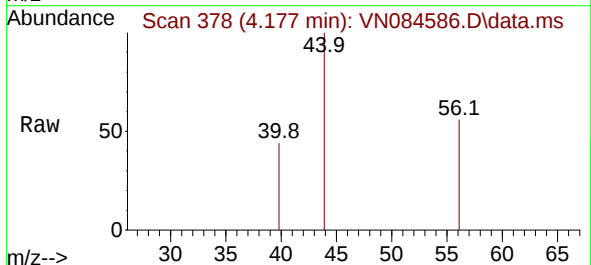
Instrument :
MSVOA_N
ClientSampleId :
BP-F16

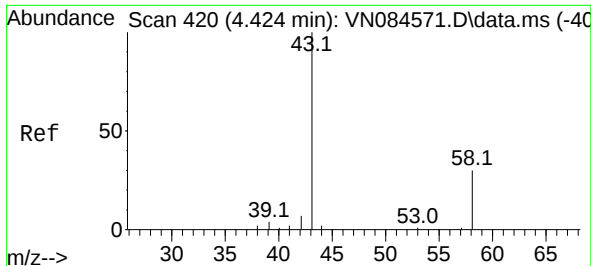
Tgt Ion: 59 Resp: 856
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 0.463 ug/l
RT: 4.177 min Scan# 378
Delta R.T. -0.000 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

Tgt Ion: 56 Resp: 161
Ion Ratio Lower Upper
56 100
55 0.0 57.2 85.8#

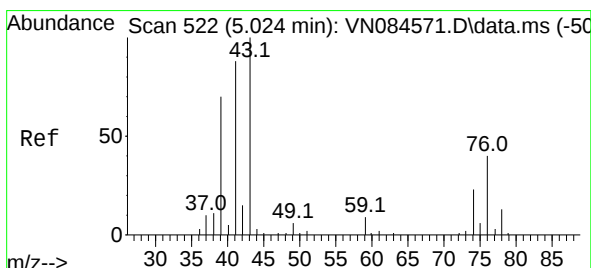
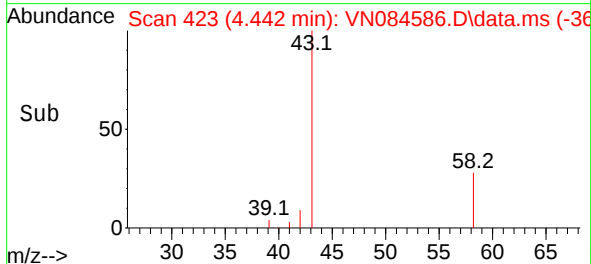
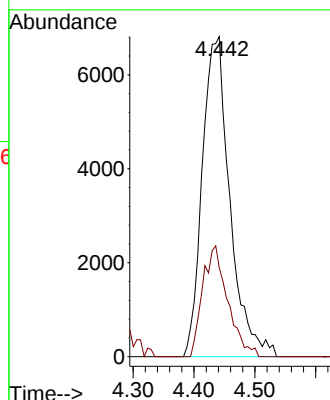
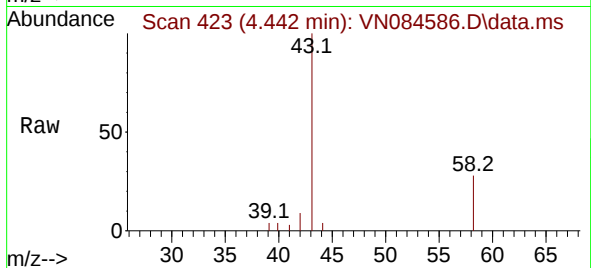




#16
Acetone
Concen: 25.575 ug/l
RT: 4.442 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

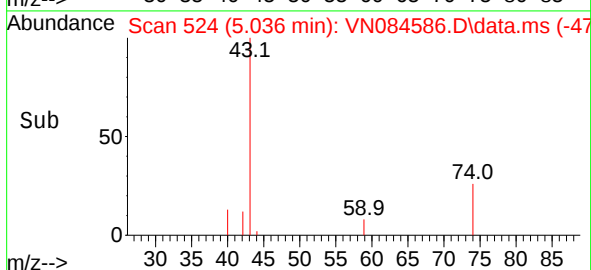
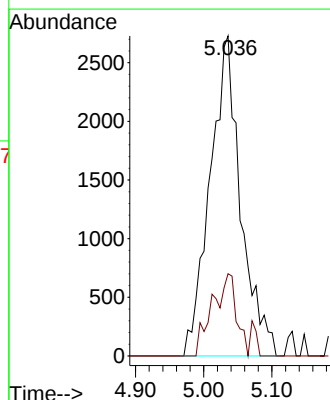
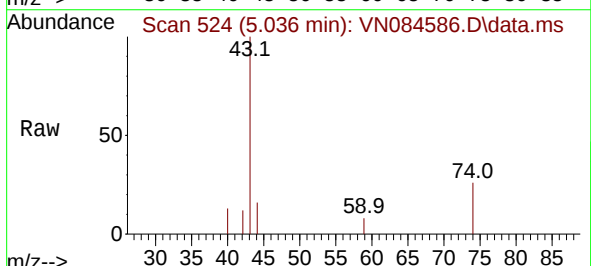
Instrument :
MSVOA_N
ClientSampleId :
BP-F16

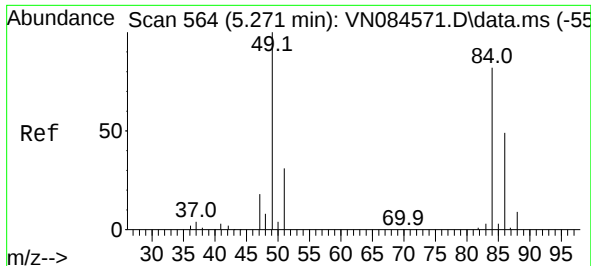
Tgt Ion: 43 Resp: 21479
Ion Ratio Lower Upper
43 100
58 27.8 24.4 36.6



#18
Methyl Acetate
Concen: Below Cal
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

Tgt Ion: 43 Resp: 8554
Ion Ratio Lower Upper
43 100
74 20.2 19.2 28.8





#20

Methylene Chloride

Concen: 0.929 ug/l

RT: 5.259 min Scan# 51

Delta R.T. -0.018 min

Lab File: VN084586.D

Acq: 30 Oct 2024 23:22

Instrument :

MSVOA_N

ClientSampleId :

BP-F16

Tgt Ion: 84 Resp: 2160

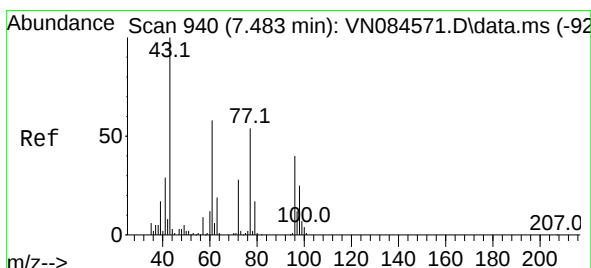
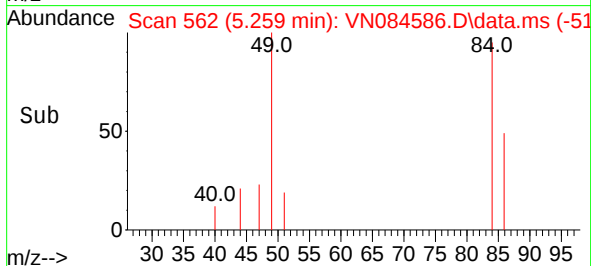
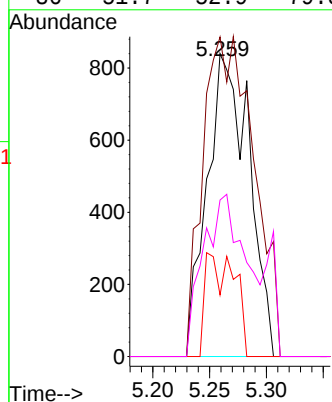
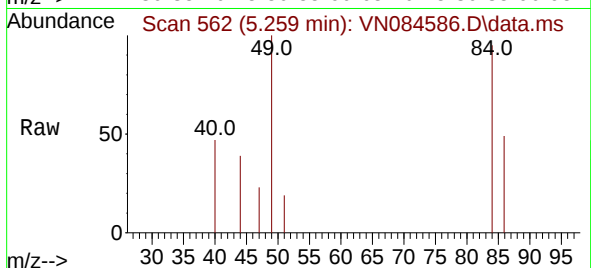
Ion Ratio Lower Upper

84 100

49 105.5 107.2 160.8#

51 20.4 31.8 47.8#

86 51.7 52.9 79.3#



#25

2-Butanone

Concen: 1.883 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN084586.D

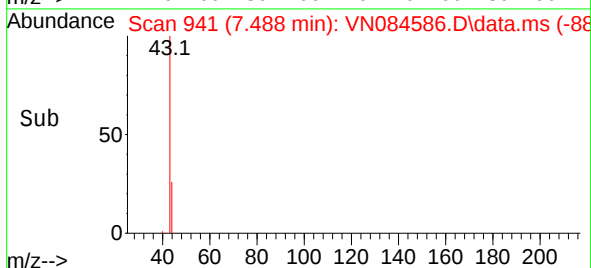
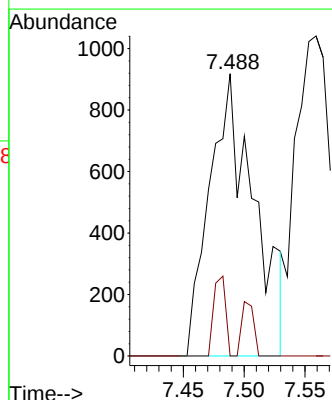
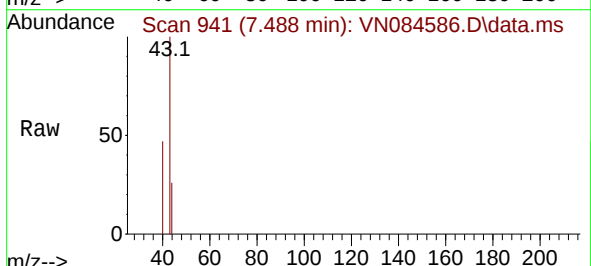
Acq: 30 Oct 2024 23:22

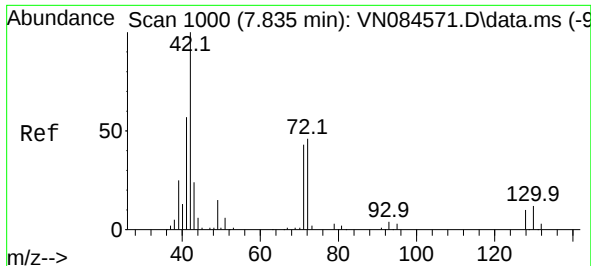
Tgt Ion: 43 Resp: 2322

Ion Ratio Lower Upper

43 100

72 0.0 21.4 32.2#





#29

Tetrahydrofuran

Concen: 0.224 ug/l

RT: 7.835 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN084586.D

Acq: 30 Oct 2024 23:22

Instrument :

MSVOA_N

ClientSampleId :

BP-F16

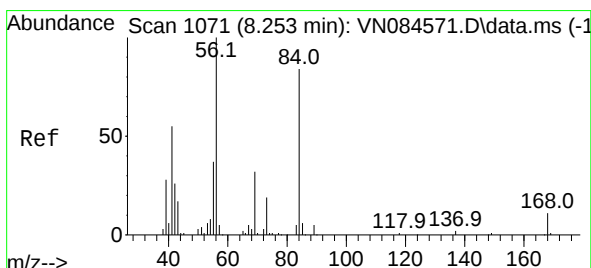
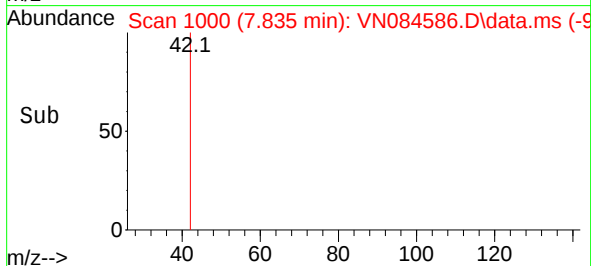
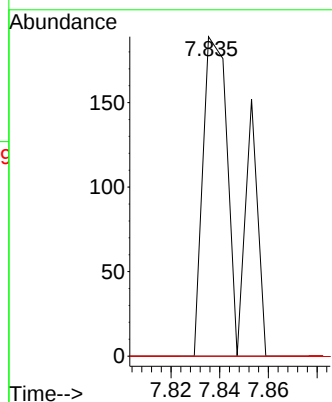
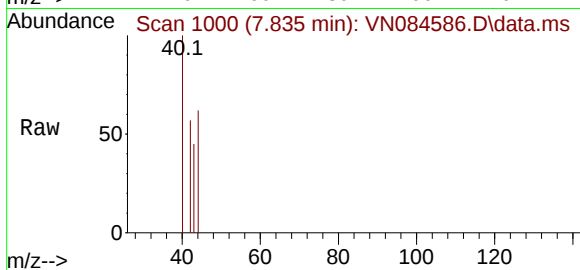
Tgt Ion: 42 Resp: 183

Ion Ratio Lower Upper

42 100

72 0.0 34.6 51.8#

71 0.0 32.2 48.4#



#31

Cyclohexane

Concen: 1.153 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN084586.D

Acq: 30 Oct 2024 23:22

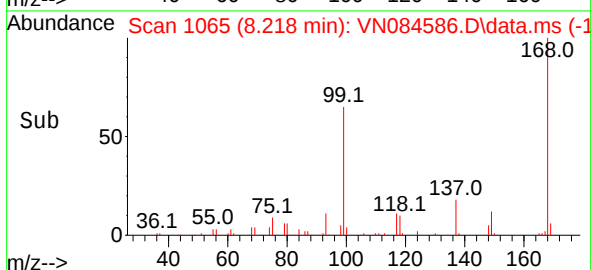
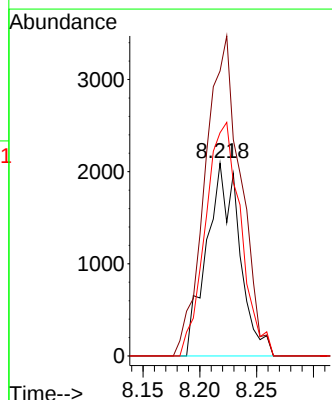
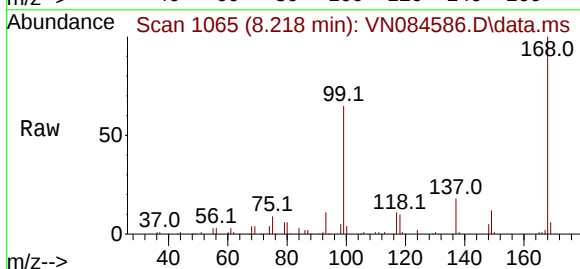
Tgt Ion: 56 Resp: 4207

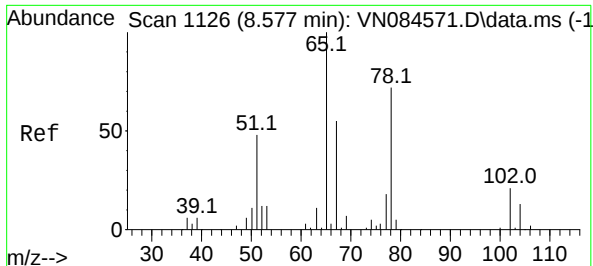
Ion Ratio Lower Upper

56 100

69 147.7 23.8 35.6#

84 115.8 68.8 103.2#

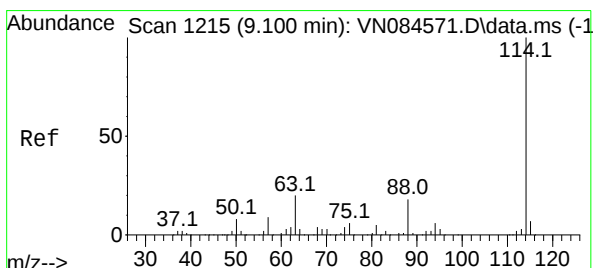
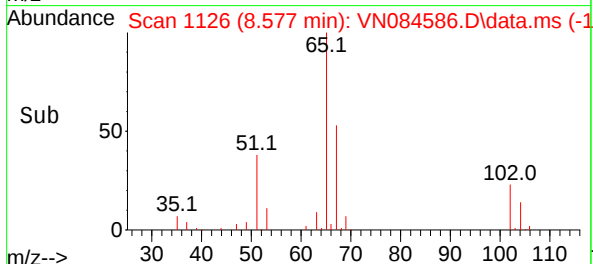
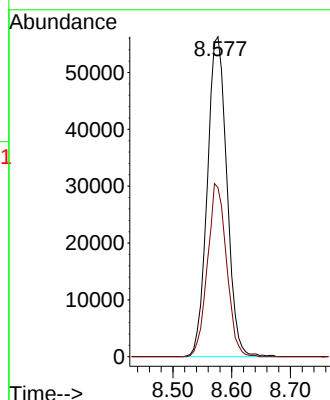
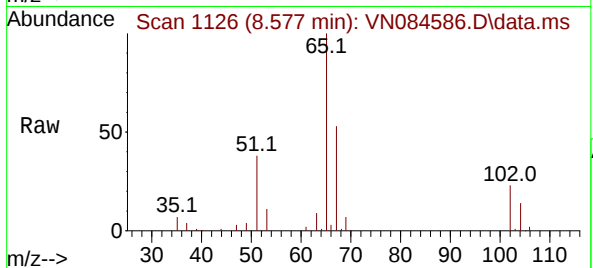




#33
1,2-Dichloroethane-d4
Concen: 49.204 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

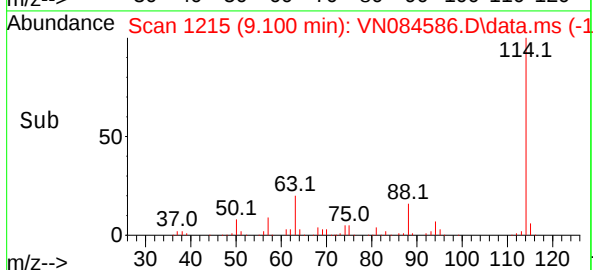
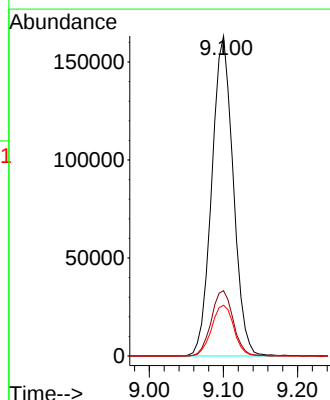
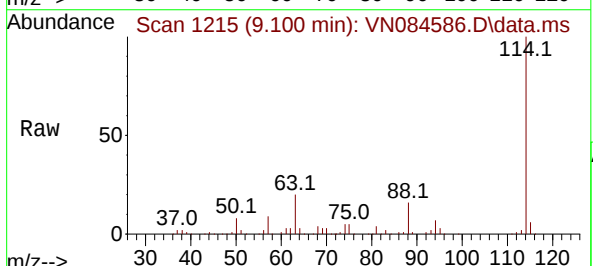
Instrument :
MSVOA_N
ClientSampleId :
BP-F16

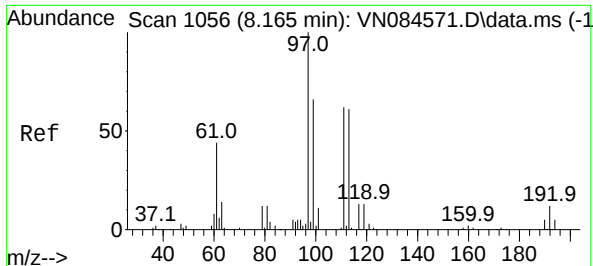
Tgt Ion: 65 Resp: 130036
Ion Ratio Lower Upper
65 100
67 52.7 0.0 102.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

Tgt Ion: 114 Resp: 327656
Ion Ratio Lower Upper
114 100
63 20.4 0.0 43.8
88 15.8 0.0 31.6





#35

Dibromofluoromethane

Concen: 47.359 ug/l

RT: 8.165 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN084586.D

Acq: 30 Oct 2024 23:22

Instrument :

MSVOA_N

ClientSampleId :

BP-F16

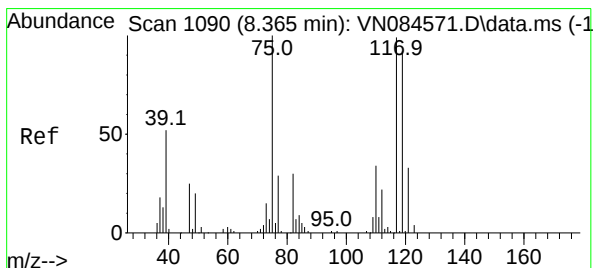
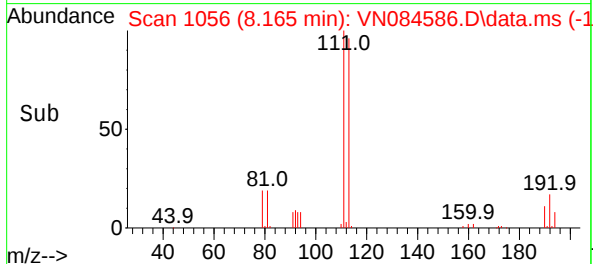
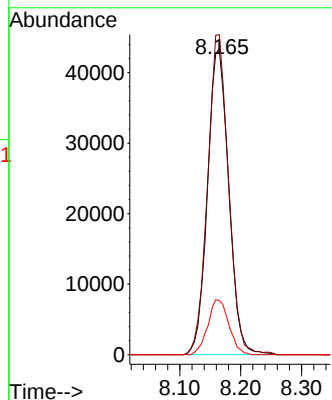
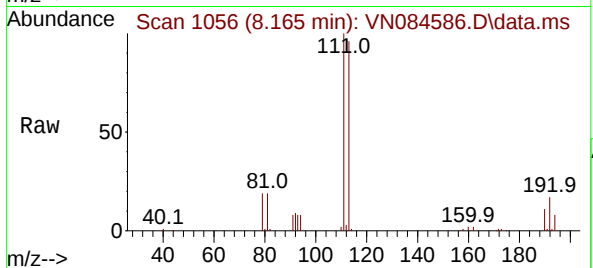
Tgt Ion:113 Resp: 105035

Ion Ratio Lower Upper

113 100

111 103.3 83.3 124.9

192 17.8 13.5 20.3



#36

1,1-Dichloropropene

Concen: 5.106 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

Lab File: VN084586.D

Acq: 30 Oct 2024 23:22

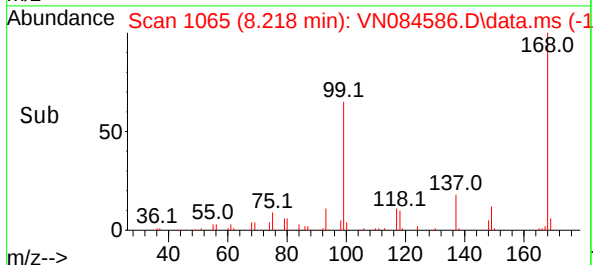
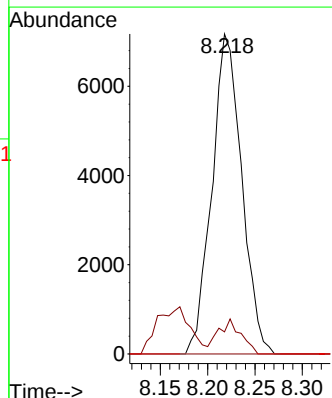
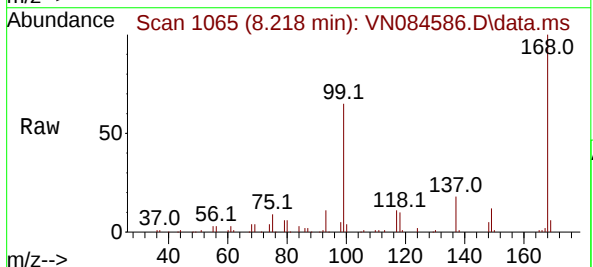
Tgt Ion: 75 Resp: 15705

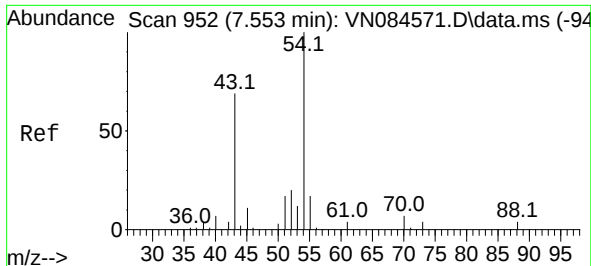
Ion Ratio Lower Upper

75 100

110 8.2 16.9 50.7#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 0.919 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN084586.D

Acq: 30 Oct 2024 23:22

Instrument :

MSVOA_N

ClientSampleId :

BP-F16

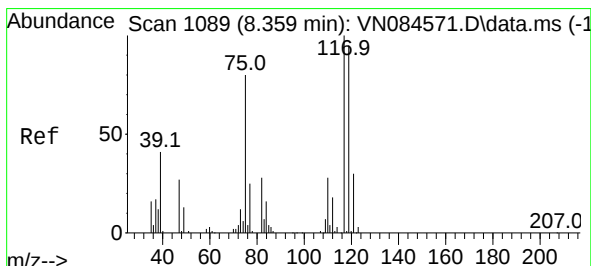
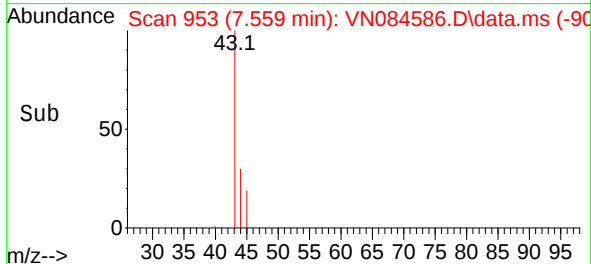
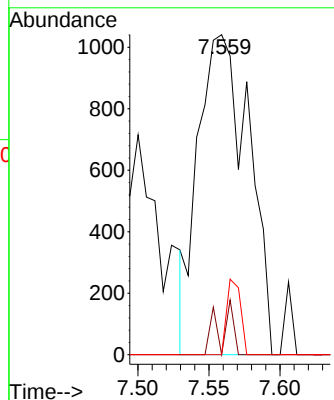
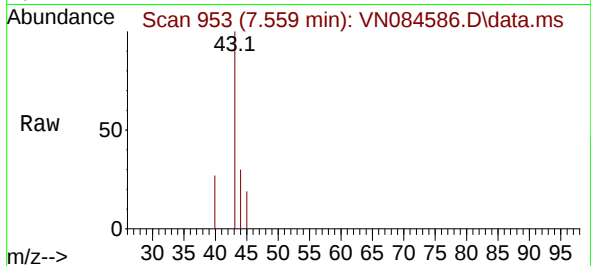
Tgt Ion: 43 Resp: 2564

Ion Ratio Lower Upper

43 100

61 2.1 10.7 16.1#

70 6.4 8.8 13.2#



#38

Carbon Tetrachloride

Concen: 5.837 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN084586.D

Acq: 30 Oct 2024 23:22

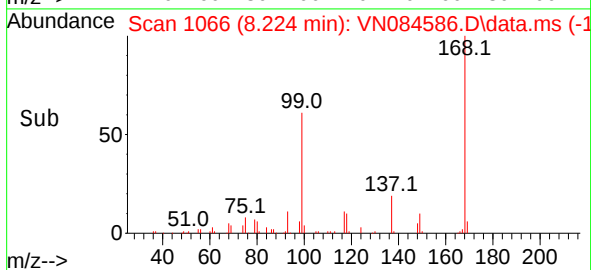
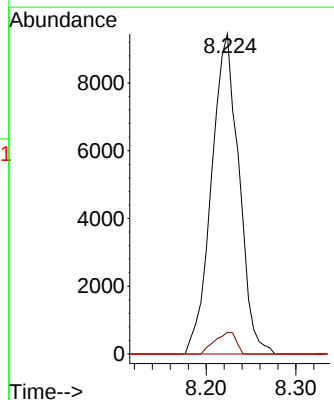
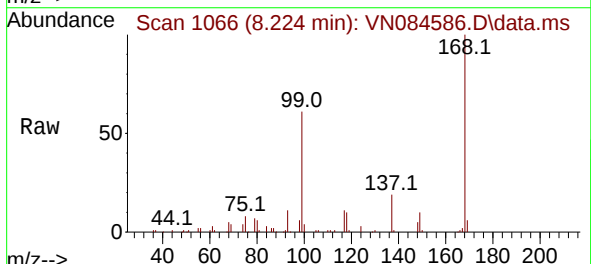
Tgt Ion: 117 Resp: 20068

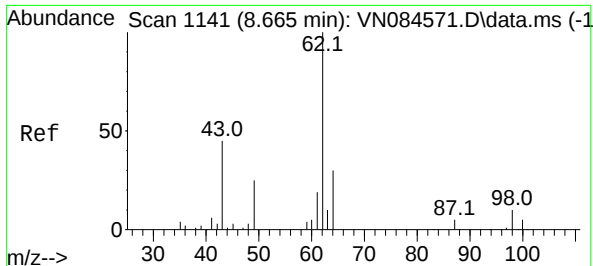
Ion Ratio Lower Upper

117 100

119 6.7 78.7 118.1#

121 0.0 24.4 36.6#

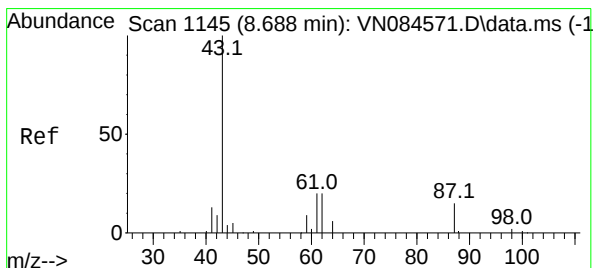
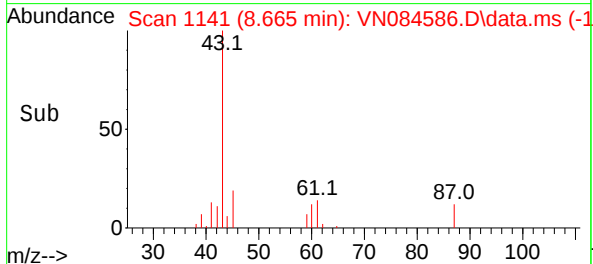
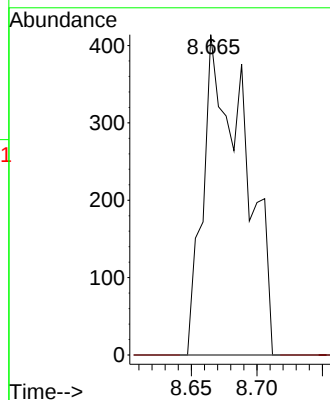
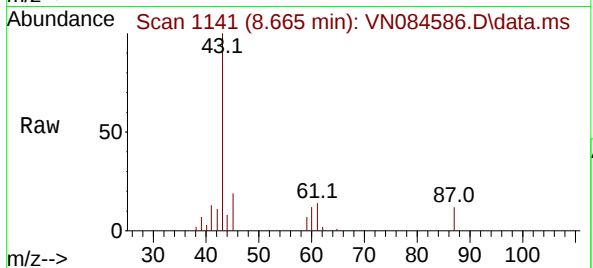




#42
1,2-Dichloroethane
Concen: 0.284 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.006 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

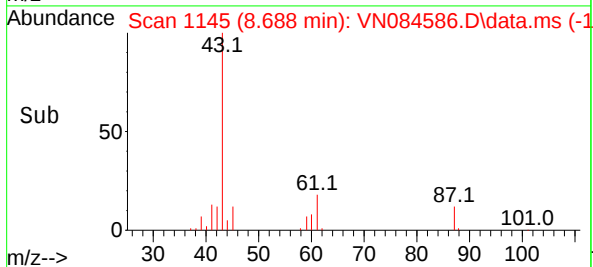
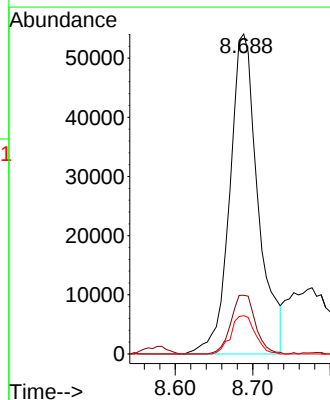
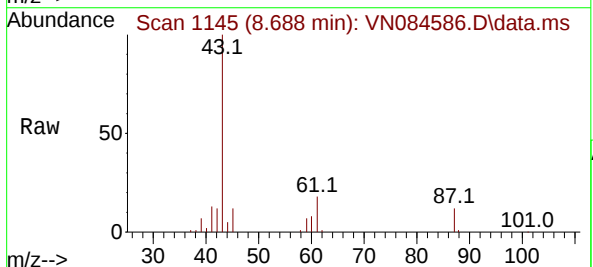
Instrument :
MSVOA_N
ClientSampleId :
BP-F16

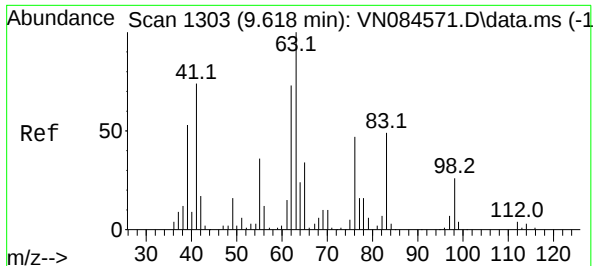
Tgt Ion: 62 Resp: 910
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.2



#43
Isopropyl Acetate
Concen: 26.223 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

Tgt Ion: 43 Resp: 137562
Ion Ratio Lower Upper
43 100
61 15.9 20.4 30.6#
87 10.2 10.3 15.5#

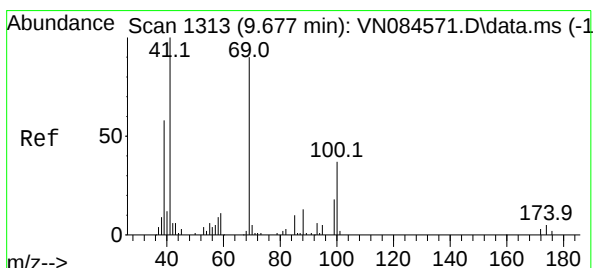
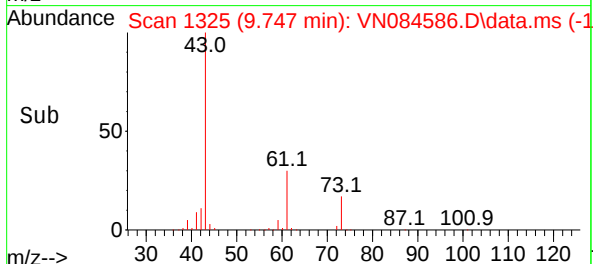
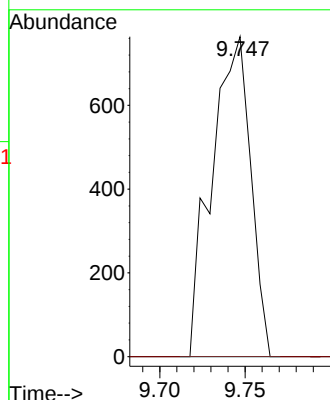
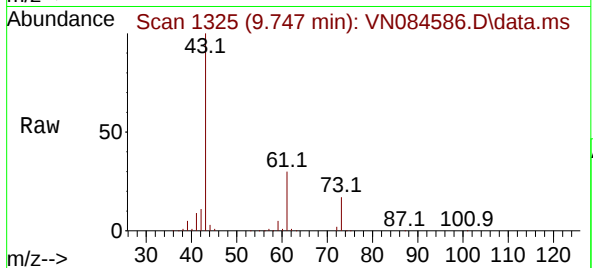




#45
1,2-Dichloropropane
Concen: 0.526 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.129 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

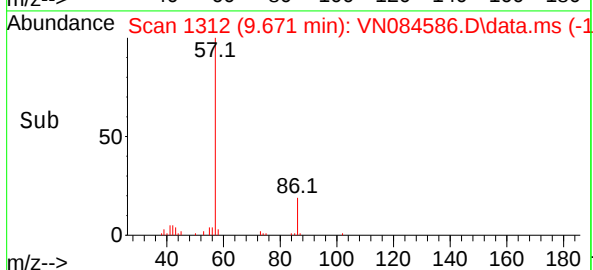
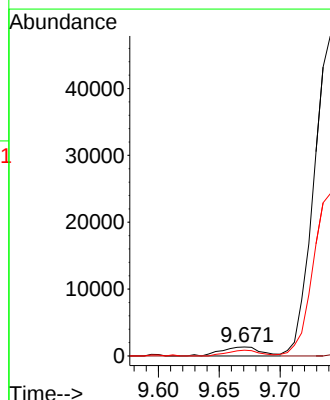
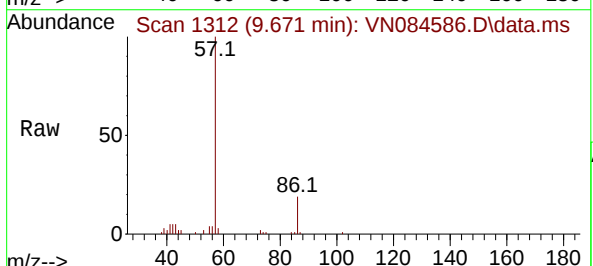
Instrument :
MSVOA_N
ClientSampleId :
BP-F16

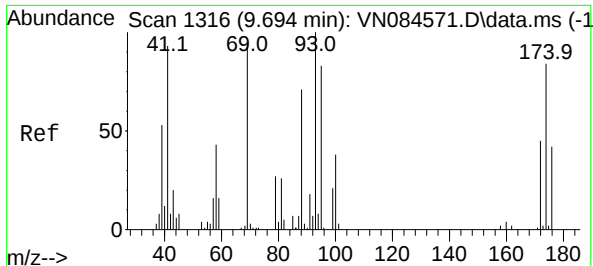
Tgt Ion: 63 Resp: 1219
Ion Ratio Lower Upper
63 100
65 0.0 24.6 37.0#



#48
Methyl methacrylate
Concen: 1.413 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.006 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

Tgt Ion: 41 Resp: 3068
Ion Ratio Lower Upper
41 100
69 0.0 67.1 100.7#
39 51.8 45.8 68.6

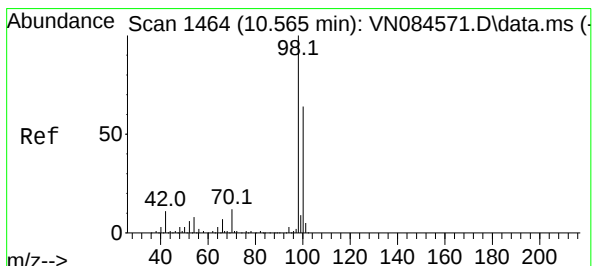
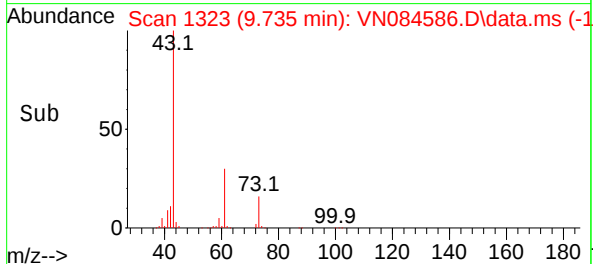
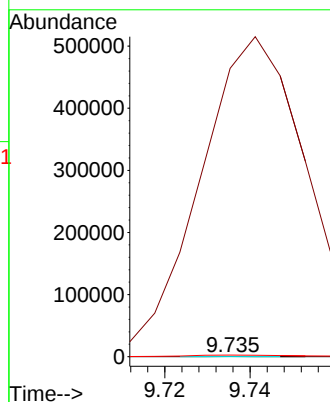
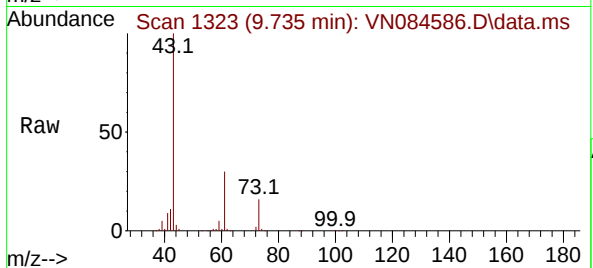




#49
1,4-Dioxane
Concen: 1.481 ug/l
RT: 9.735 min Scan# 1316
Delta R.T. 0.041 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

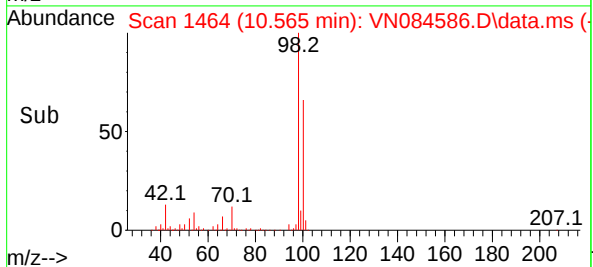
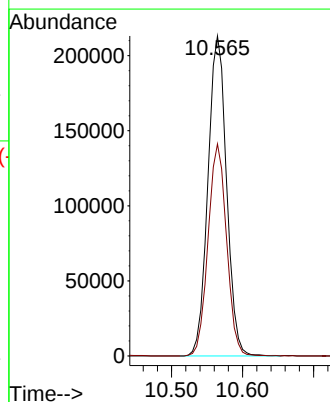
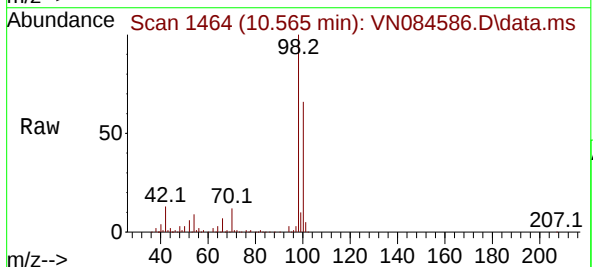
Instrument :
MSVOA_N
ClientSampleId :
BP-F16

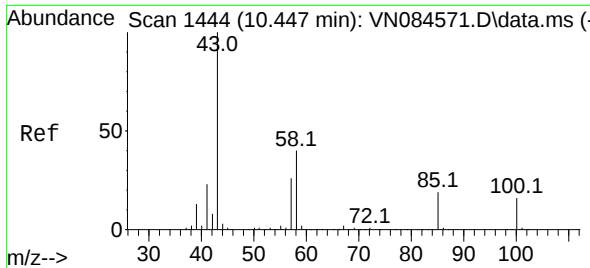
Tgt Ion: 88 Resp: 57
Ion Ratio Lower Upper
88 100
43 1622264.9 25.3 37.9#
58 8633.3 56.4 84.6#



#50
Toluene-d8
Concen: 47.510 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

Tgt Ion: 98 Resp: 388148
Ion Ratio Lower Upper
98 100
100 65.8 52.7 79.1

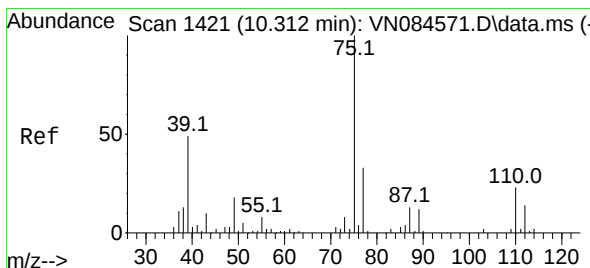
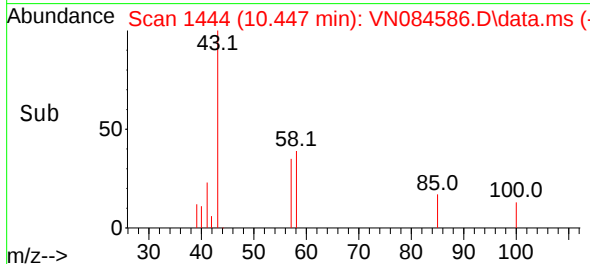
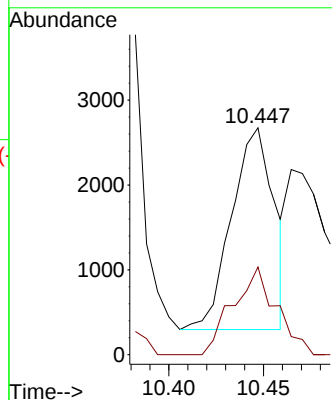
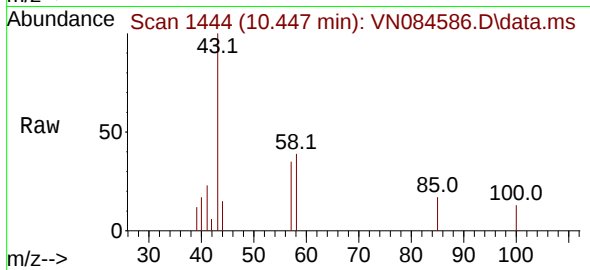




#51
4-Methyl-2-Pentanone
Concen: 1.401 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

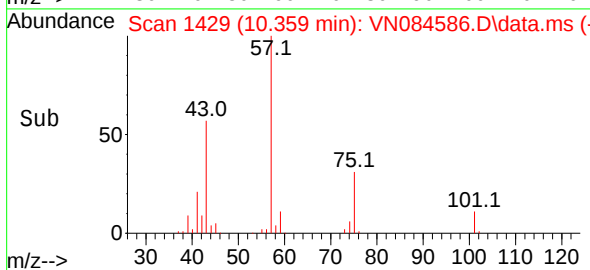
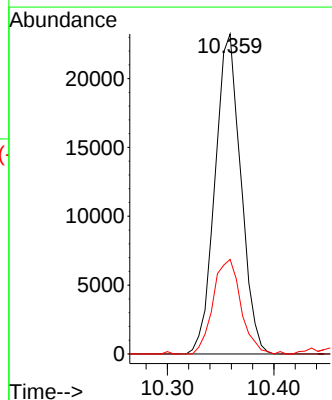
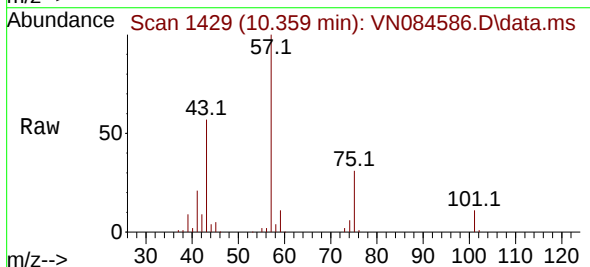
Instrument :
MSVOA_N
ClientSampleId :
BP-F16

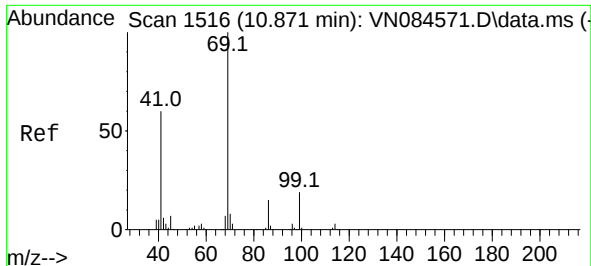
Tgt Ion: 43 Resp: 3728
Ion Ratio Lower Upper
43 100
58 44.1 31.6 47.4



#54
cis-1,3-Dichloropropene
Concen: 10.341 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

Tgt Ion: 75 Resp: 39046
Ion Ratio Lower Upper
75 100
77 0.0 24.2 36.2#
39 29.5 38.7 58.1#

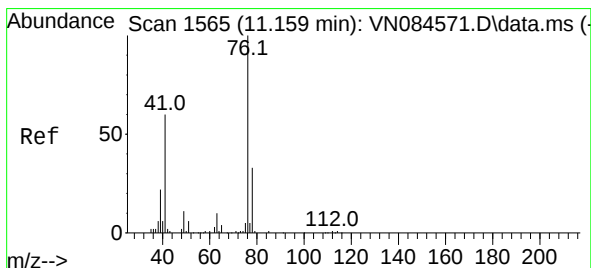
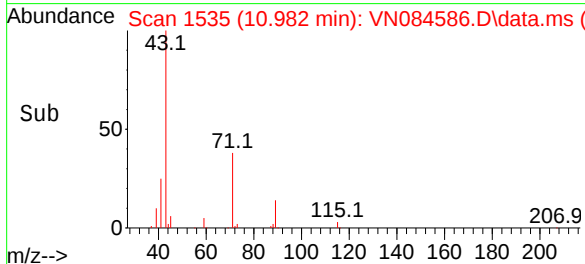
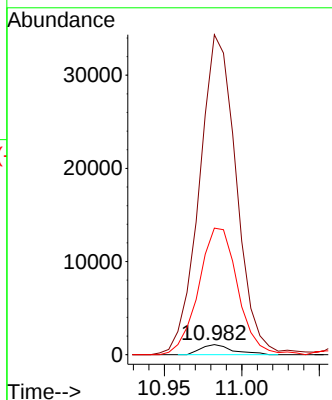
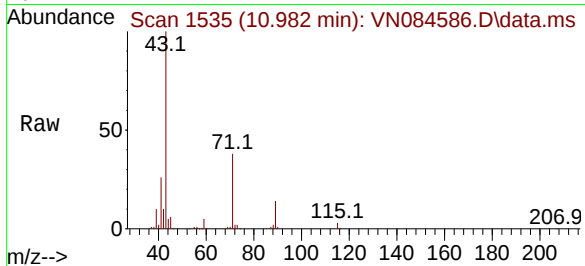




#56
Ethyl methacrylate
Concen: 0.492 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.112 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

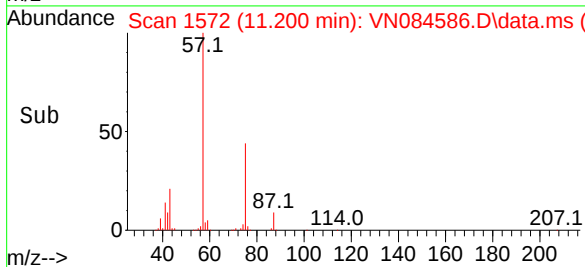
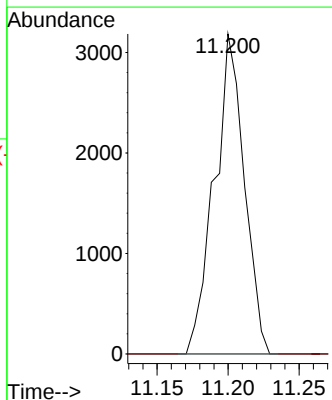
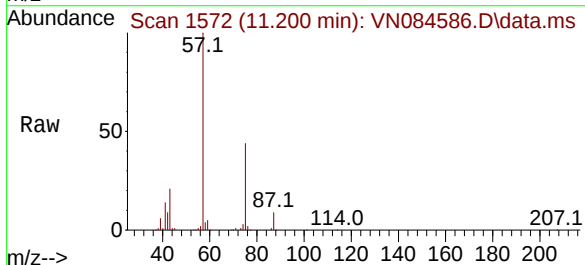
Instrument :
MSVOA_N
ClientSampleId :
BP-F16

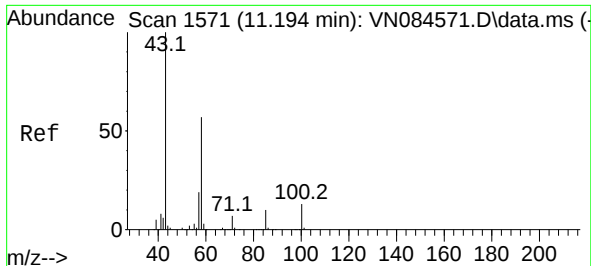
Tgt Ion: 69 Resp: 1548
Ion Ratio Lower Upper
69 100
41 3702.1 53.3 79.9#
39 1544.2 28.8 43.2#



#57
1,3-Dichloropropane
Concen: 1.248 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

Tgt Ion: 76 Resp: 4660
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#





#59

2-Hexanone

Concen: 49.495 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.024 min

Lab File: VN084586.D

Acq: 30 Oct 2024 23:22

Instrument :

MSVOA_N

ClientSampleId :

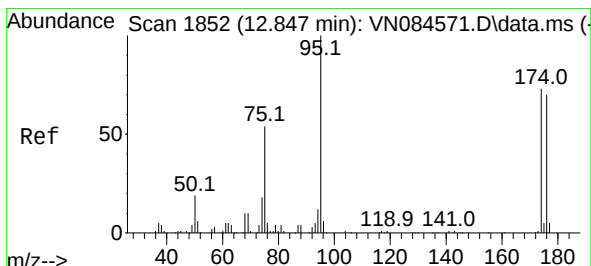
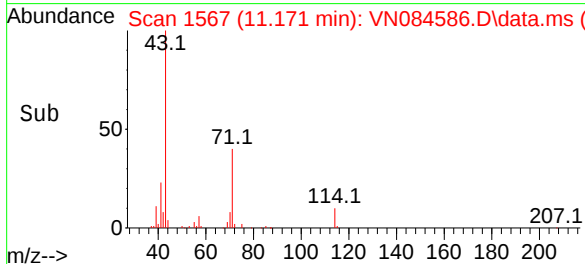
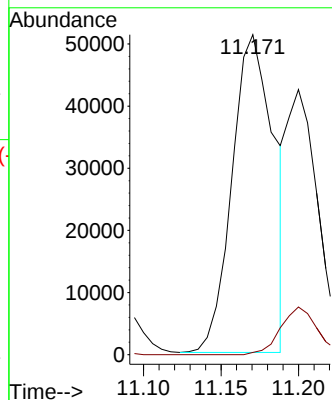
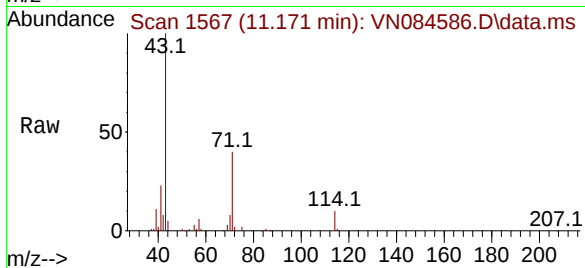
BP-F16

Tgt Ion: 43 Resp: 95844

Ion Ratio Lower Upper

43 100

58 0.0 27.3 81.8#



#62

4-Bromofluorobenzene

Concen: 48.129 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN084586.D

Acq: 30 Oct 2024 23:22

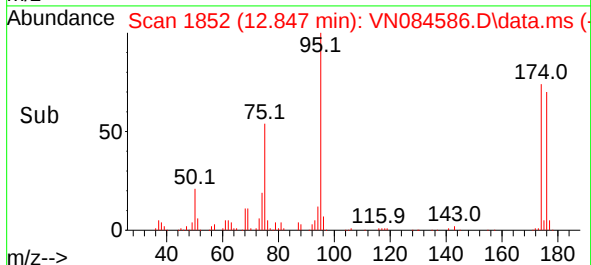
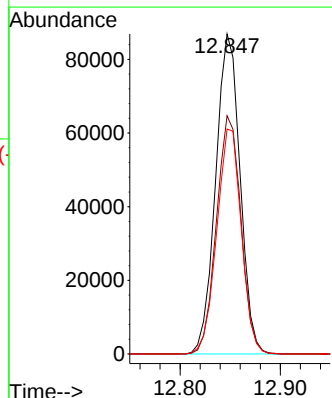
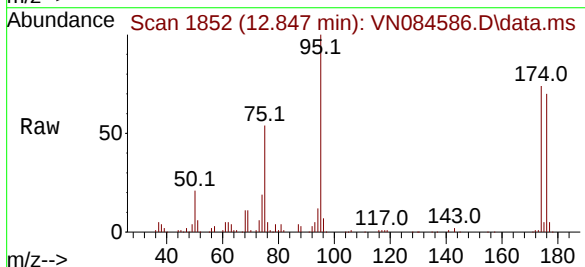
Tgt Ion: 95 Resp: 146954

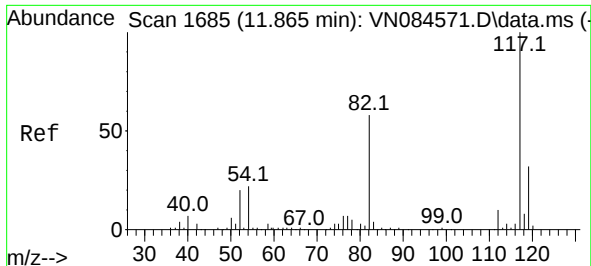
Ion Ratio Lower Upper

95 100

174 74.6 0.0 145.2

176 70.9 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN084586.D

Acq: 30 Oct 2024 23:22

Instrument :

MSVOA_N

ClientSampleId :

BP-F16

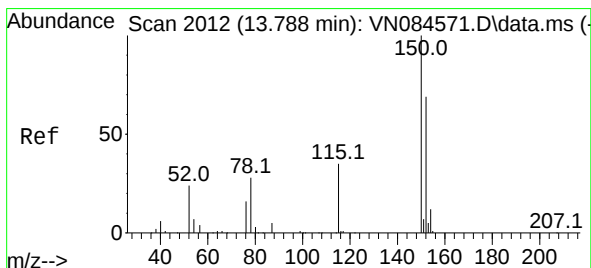
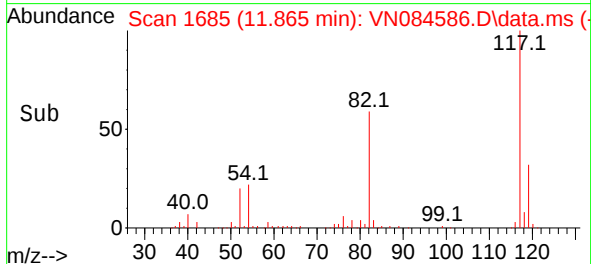
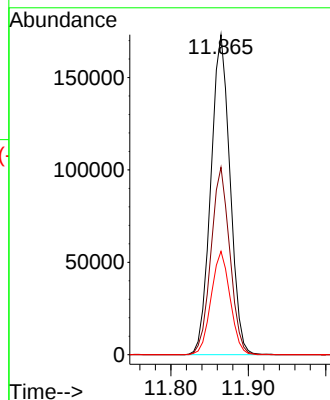
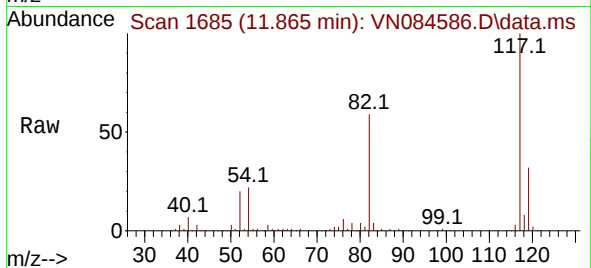
Tgt Ion:117 Resp: 297118

Ion Ratio Lower Upper

117 100

82 58.6 47.2 70.8

119 32.3 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.006 min

Lab File: VN084586.D

Acq: 30 Oct 2024 23:22

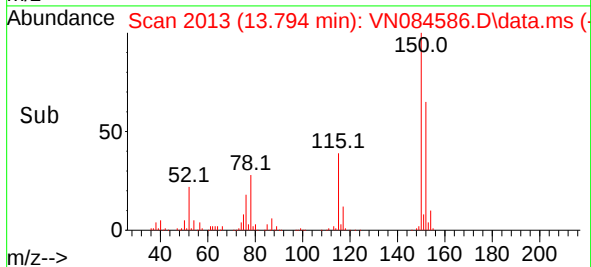
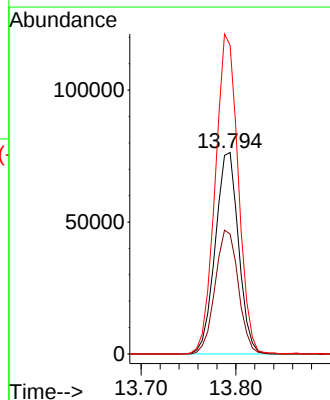
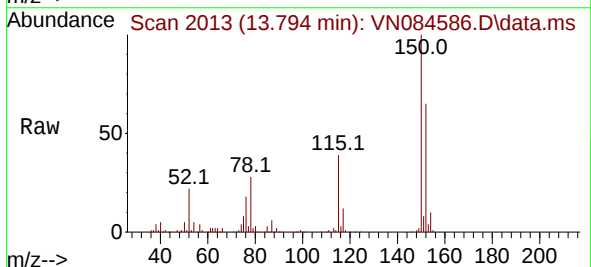
Tgt Ion:152 Resp: 130070

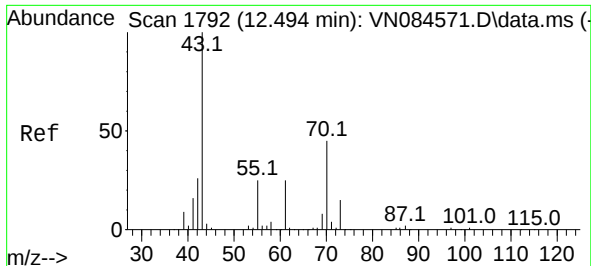
Ion Ratio Lower Upper

152 100

115 61.4 31.3 93.9

150 157.1 0.0 349.8

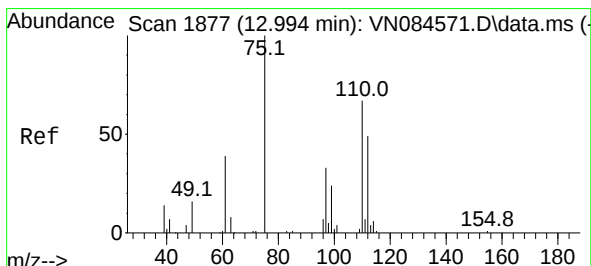
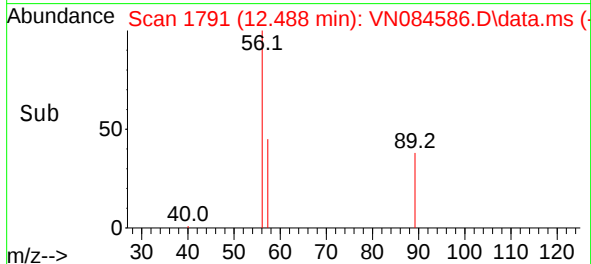
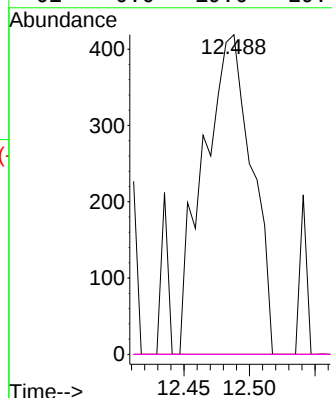
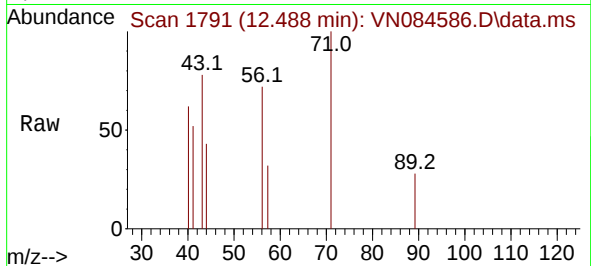




#74
N-ethyl acetate
Concen: 0.278 ug/l
RT: 12.488 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

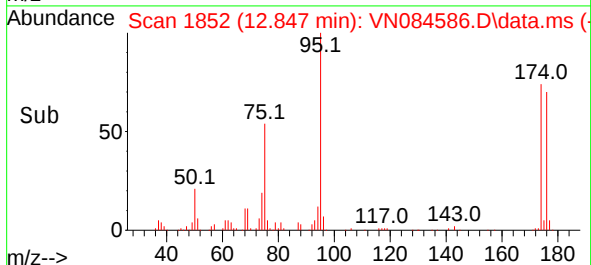
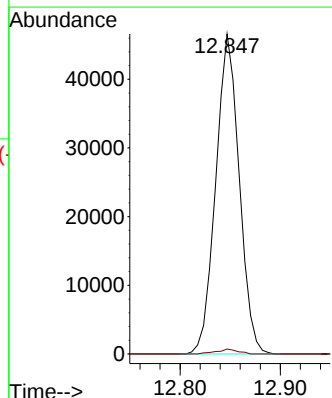
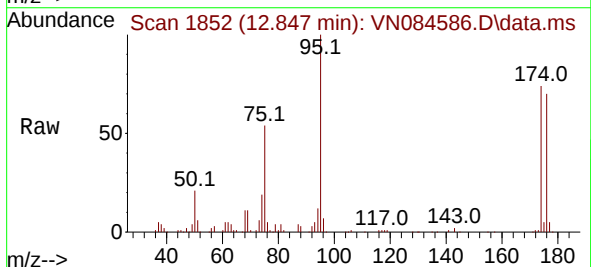
Instrument :
MSVOA_N
ClientSampleId :
BP-F16

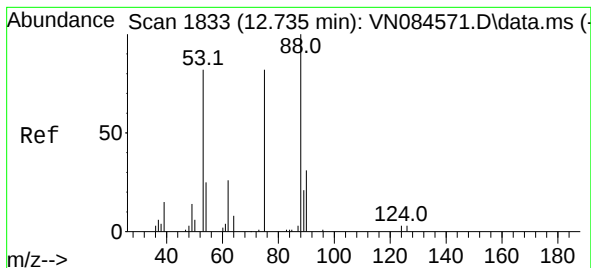
Tgt Ion: 43	Resp: 1079
Ion Ratio	Lower Upper
43	100
70	0.0 34.4 51.6#
55	0.0 19.6 29.4#
61	0.0 19.6 29.4#



#76
1,2,3-Trichloropropane
Concen: 29.117 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

Tgt Ion: 75	Resp: 75706
Ion Ratio	Lower Upper
75	100
77	1.4 96.9 290.7#

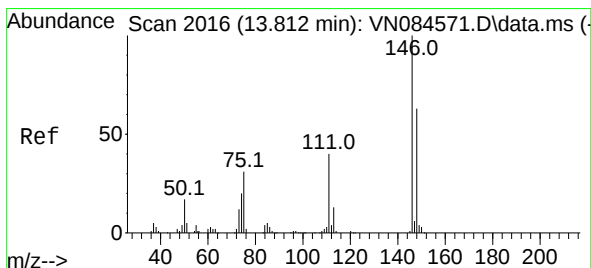
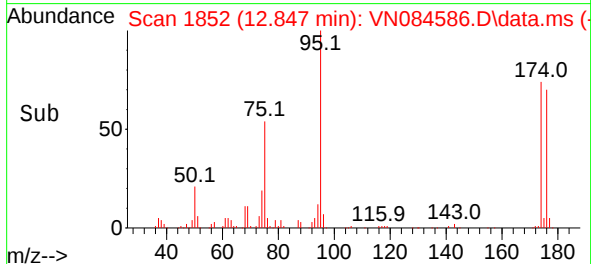
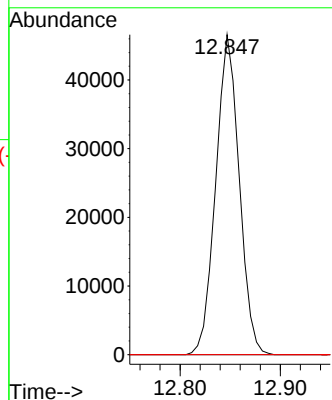
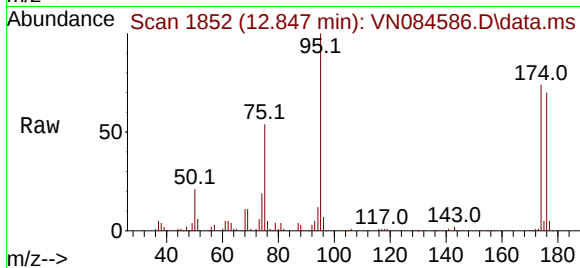




#81
trans-1,4-Dichloro-2-butene
Concen: 69.078 ug/l
RT: 12.847 min Scan# 1833
Delta R.T. 0.112 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

Instrument :
MSVOA_N
ClientSampleId :
BP-F16

Tgt Ion: 75 Resp: 75706
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: 13.817 min Scan# 2017
Delta R.T. 0.005 min
Lab File: VN084586.D
Acq: 30 Oct 2024 23:22

Tgt Ion:146 Resp: 773
Ion Ratio Lower Upper
146 100
111 0.0 21.2 63.6#
148 0.0 31.9 95.9#

