

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100924\
 Data File : VN084370.D
 Acq On : 09 Oct 2024 16:20
 Operator : JC\MD
 Sample : P4359-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 10 01:23:13 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 2024
 Response via : Initial Calibration

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

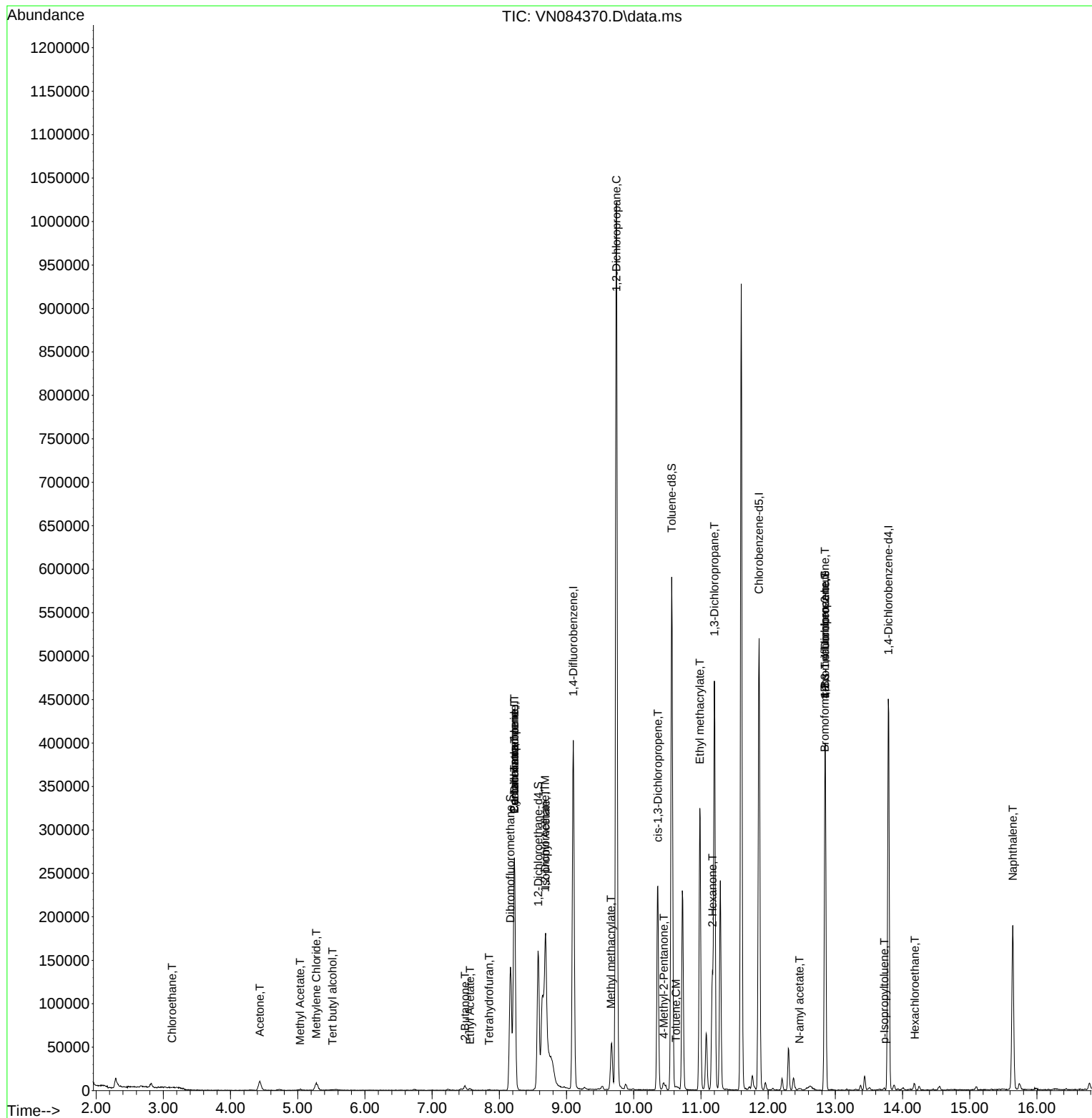
Internal Standards						
1) Pentafluorobenzene	8.224	168	190776	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	337297	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	290834	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	120640	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	134358	47.500	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.000%		
35) Dibromofluoromethane	8.165	113	102902	46.276	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.560%		
50) Toluene-d8	10.565	98	402965	49.255	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.520%		
62) 4-Bromofluorobenzene	12.847	95	141751	47.560	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	95.120%		
Target Compounds						
					Qvalue	
6) Chloroethane	3.130	64	793	0.444	ug/l #	45
11) Tert butyl alcohol	5.518	59	1183	2.536	ug/l #	73
16) Acetone	4.436	43	20882	17.185	ug/l	99
18) Methyl Acetate	5.036	43	2311	0.873	ug/l #	66
20) Methylene Chloride	5.277	84	6475	2.621	ug/l #	76
25) 2-Butanone	7.489	43	8540	5.160	ug/l #	84
29) Tetrahydrofuran	7.848	42	780	0.764	ug/l #	40
31) Cyclohexane	8.224	56	4299	1.026	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	17241	5.338	ug/l #	49
37) Ethyl Acetate	7.565	43	3299	0.996	ug/l #	77
38) Carbon Tetrachloride	8.224	117	20657	5.830	ug/l #	16
42) 1,2-Dichloroethane	8.683	62	1148	0.336	ug/l #	75
43) Isopropyl Acetate	8.689	43	386288	59.516	ug/l #	69
45) 1,2-Dichloropropane	9.742	63	1150	0.483	ug/l #	44
48) Methyl methacrylate	9.659	41	3445	1.333	ug/l #	43
51) 4-Methyl-2-Pentanone	10.447	43	5165	1.637	ug/l	96
52) Toluene	10.630	92	1528	0.249	ug/l	90
54) cis-1,3-Dichloropropene	10.359	75	43028	10.995	ug/l #	61
56) Ethyl methacrylate	10.983	69	1299	0.359	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	4874	1.240	ug/l #	42
59) 2-Hexanone	11.171	43	111959	47.487	ug/l #	24
71) Bromoform	12.841	173	401	0.245	ug/l #	1
74) N-amyl acetate	12.465	43	2372	0.569	ug/l #	44
76) 1,2,3-Trichloropropane	12.847	75	75333	30.587	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	75333	73.331	ug/l #	11
86) p-Isopropyltoluene	13.730	119	1803	0.245	ug/l	90
90) Hexachloroethane	14.182	117	374	0.250	ug/l #	15
95) Naphthalene	15.641	128	177645	26.633	ug/l	100

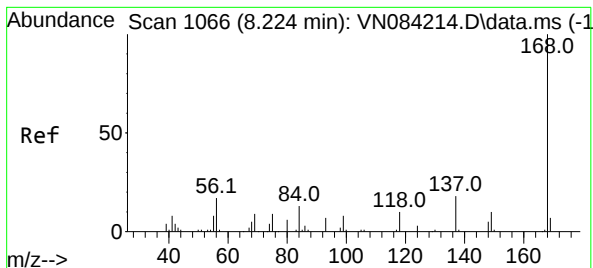
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Oct 01 07:11:01 2024
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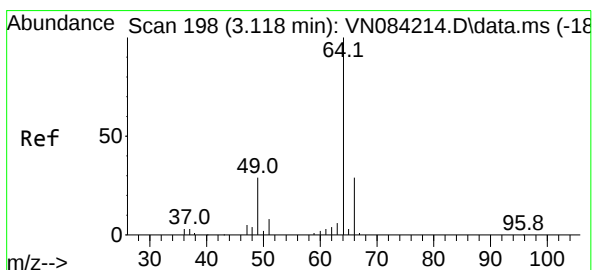
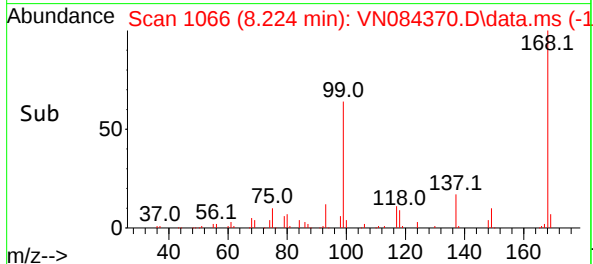
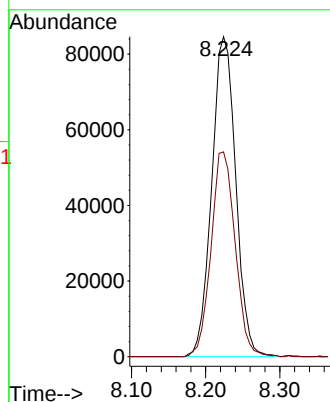
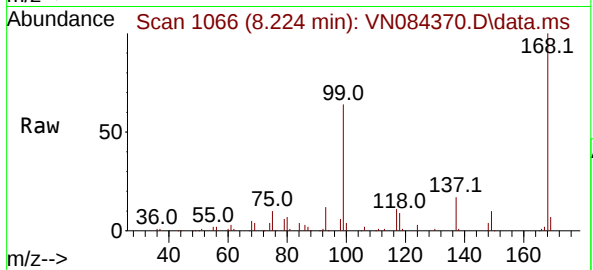




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VN084370.D
Acq: 09 Oct 2024 16:20

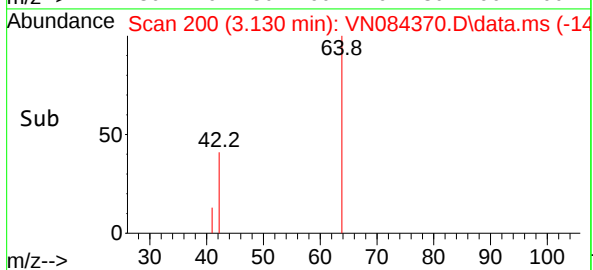
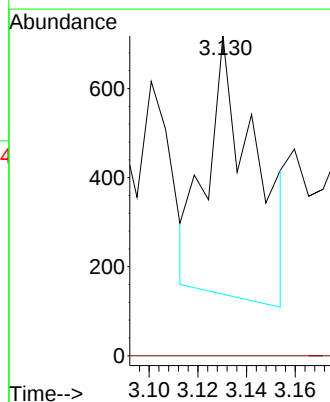
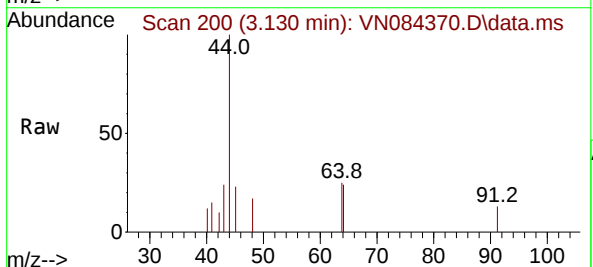
Instrument :
MSVOA_N
ClientSampleId :

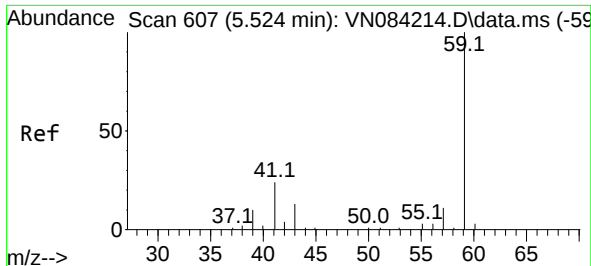
Tgt Ion:168 Resp: 190776
Ion Ratio Lower Upper
168 100
99 64.0 54.2 81.2



#6
Chloroethane
Concen: 0.444 ug/l
RT: 3.130 min Scan# 200
Delta R.T. 0.012 min
Lab File: VN084370.D
Acq: 09 Oct 2024 16:20

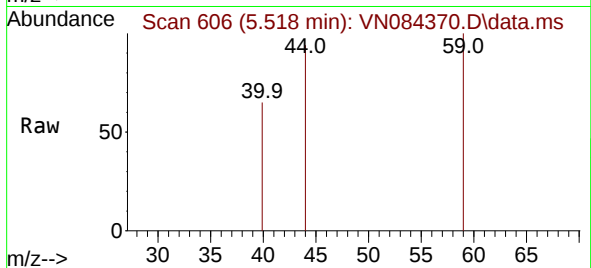
Tgt Ion: 64 Resp: 793
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#



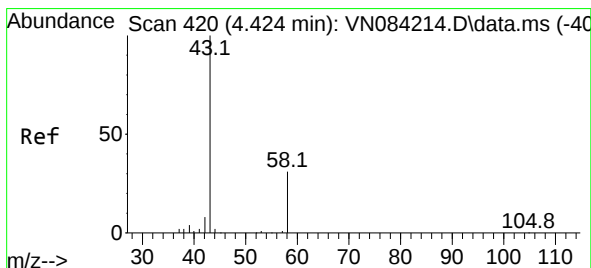
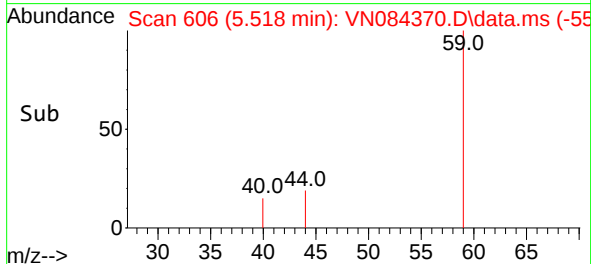
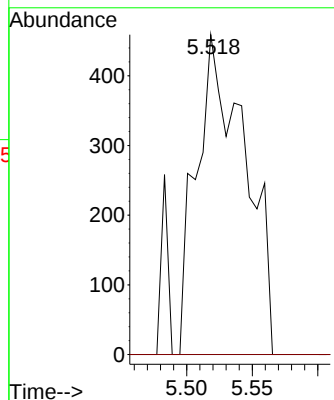


#11
Tert butyl alcohol
Concen: 2.536 ug/l
RT: 5.518 min Scan# 607
Delta R.T. -0.006 min
Lab File: VN084370.D
Acq: 09 Oct 2024 16:20

Instrument :
MSVOA_N
ClientSampleId :

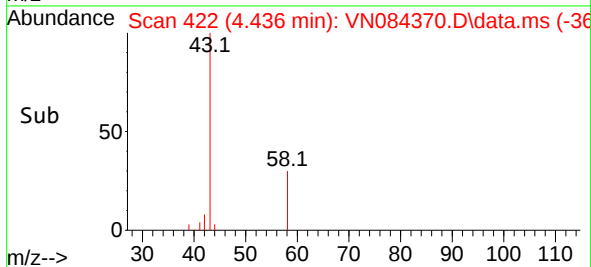
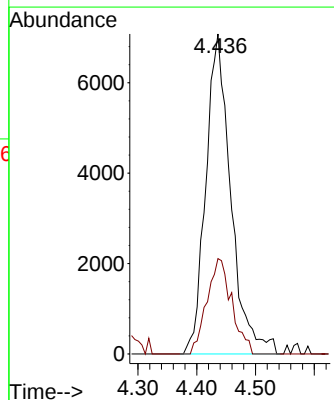
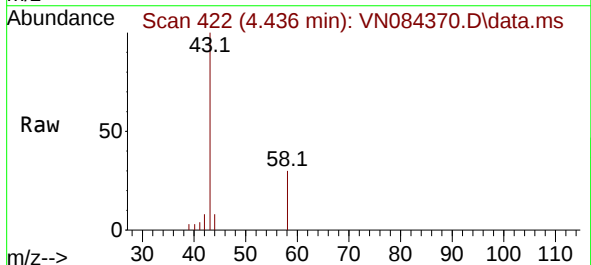


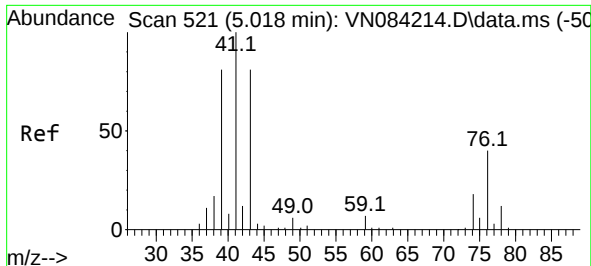
Tgt Ion: 59 Resp: 1183
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#16
Acetone
Concen: 17.185 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN084370.D
Acq: 09 Oct 2024 16:20

Tgt Ion: 43 Resp: 20882
Ion Ratio Lower Upper
43 100
58 29.8 24.4 36.6

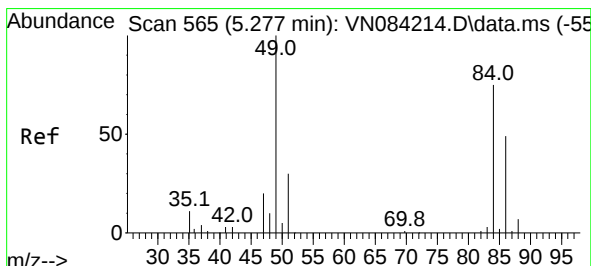
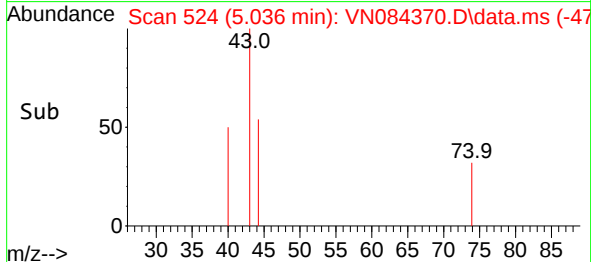
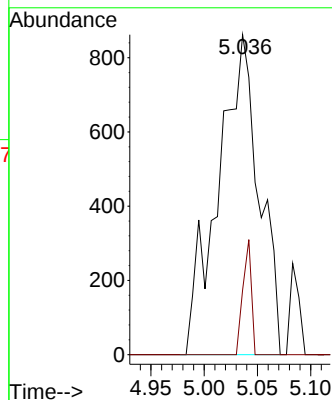
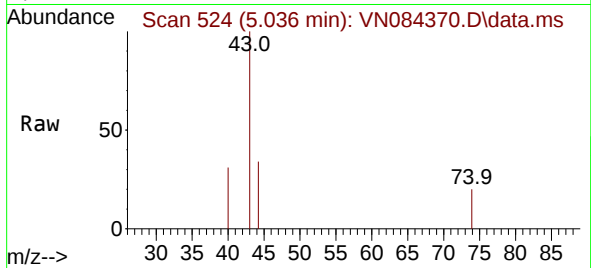




#18
Methyl Acetate
Concen: 0.873 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN084370.D
Acq: 09 Oct 2024 16:20

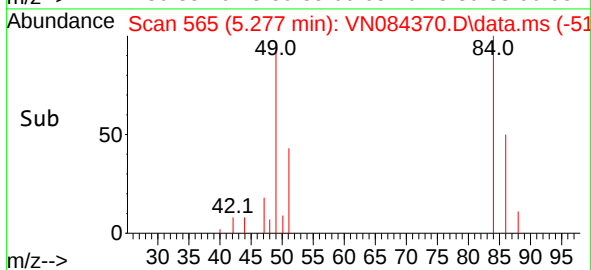
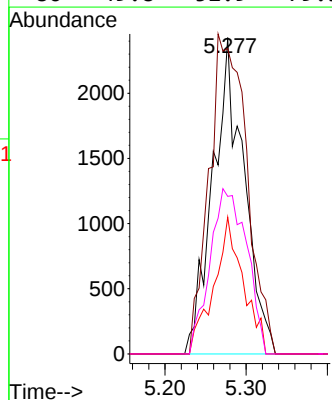
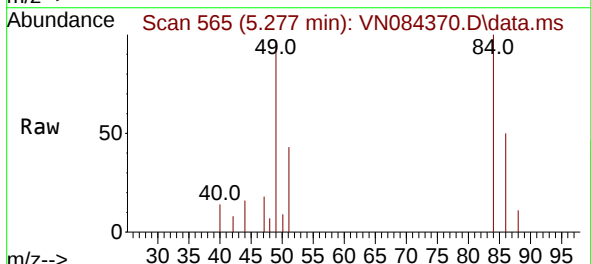
Instrument :
MSVOA_N
ClientSampleId :

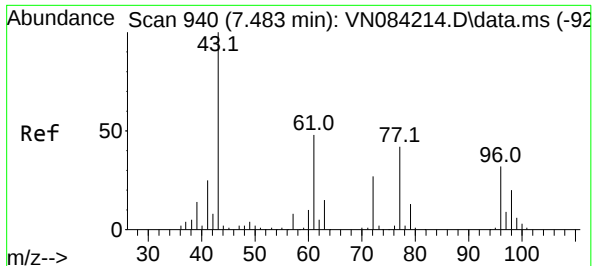
Tgt Ion: 43 Resp: 2311
Ion Ratio Lower Upper
43 100
74 7.4 19.2 28.8#



#20
Methylene Chloride
Concen: 2.621 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.000 min
Lab File: VN084370.D
Acq: 09 Oct 2024 16:20

Tgt Ion: 84 Resp: 6475
Ion Ratio Lower Upper
84 100
49 96.5 107.2 160.8#
51 43.2 31.8 47.8
86 49.8 52.9 79.3#

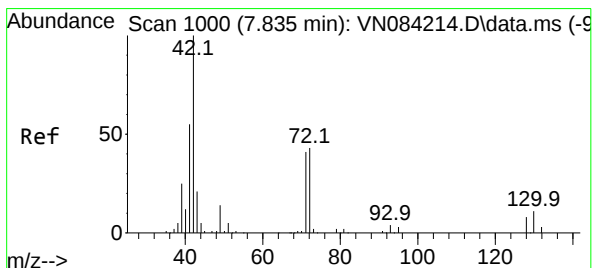
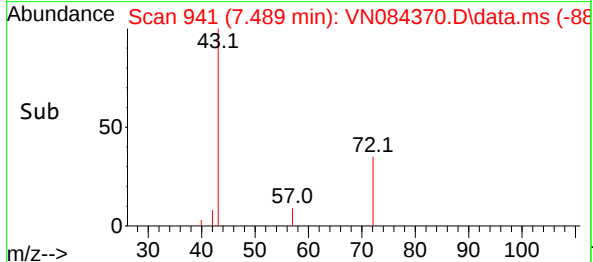
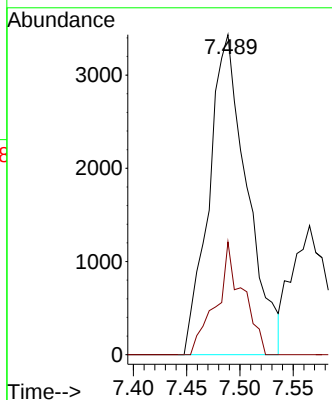
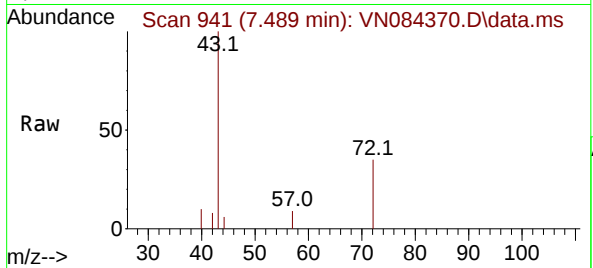




#25
2-Butanone
Concen: 5.160 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN084370.D
Acq: 09 Oct 2024 16:20

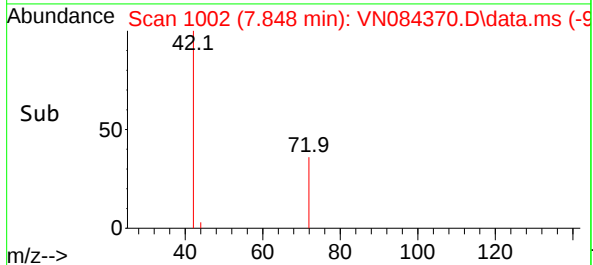
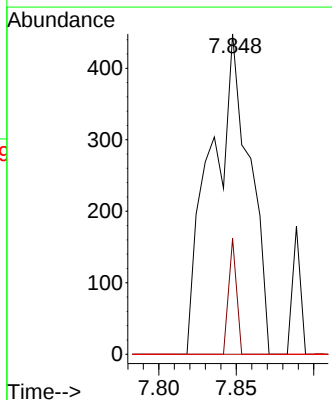
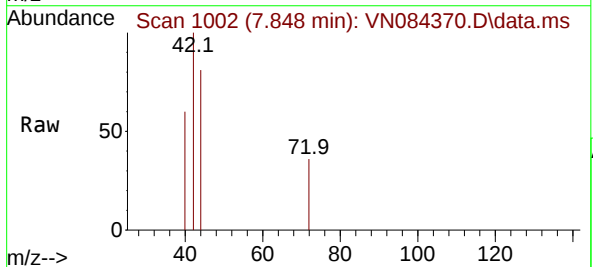
Instrument :
MSVOA_N
ClientSampleId :

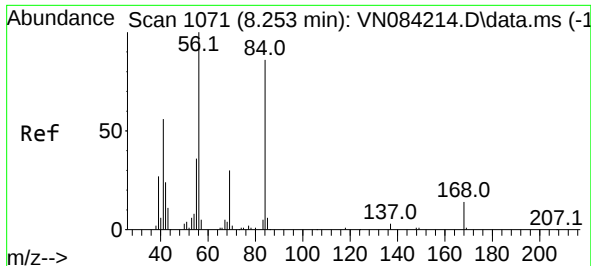
Tgt Ion: 43 Resp: 8540
Ion Ratio Lower Upper
43 100
72 35.2 21.4 32.2#



#29
Tetrahydrofuran
Concen: 0.764 ug/l
RT: 7.848 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN084370.D
Acq: 09 Oct 2024 16:20

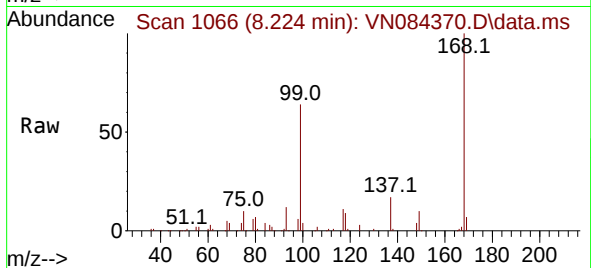
Tgt Ion: 42 Resp: 780
Ion Ratio Lower Upper
42 100
72 7.3 34.6 51.8#
71 0.0 32.2 48.4#



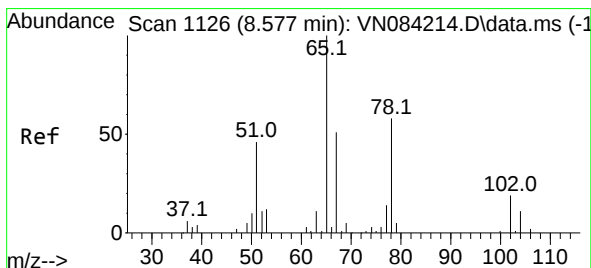
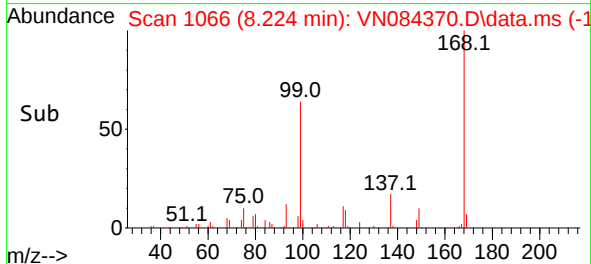
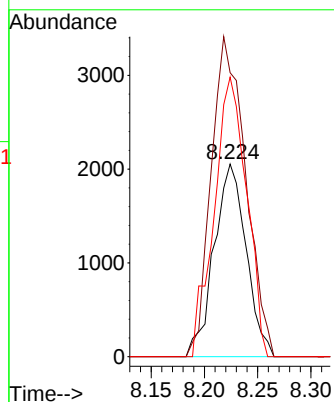


#31
Cyclohexane
Concen: 1.026 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN084370.D
Acq: 09 Oct 2024 16:20

Instrument :
MSVOA_N
ClientSampleId :

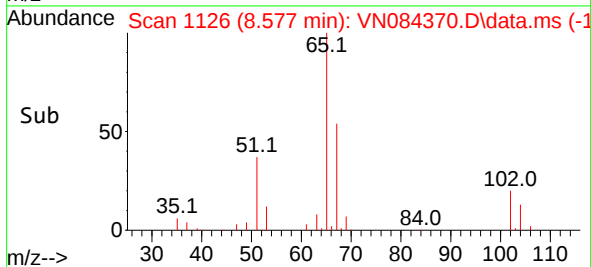
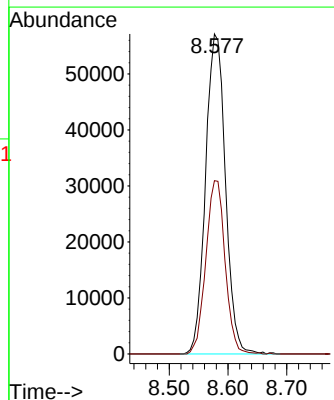
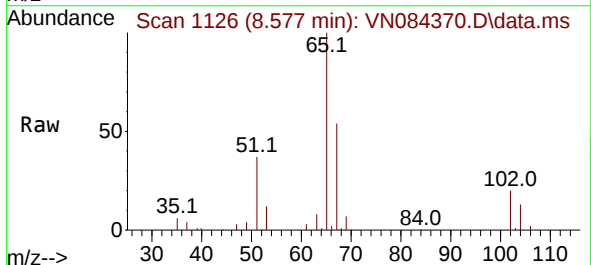


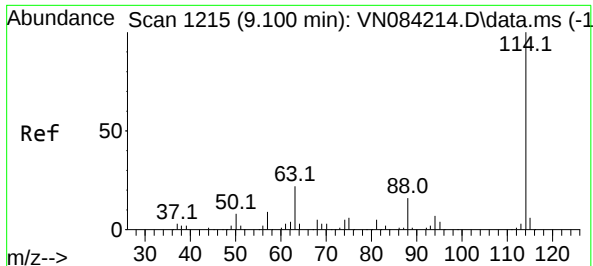
Tgt Ion: 56 Resp: 4299
Ion Ratio Lower Upper
56 100
69 147.4 23.8 35.6#
84 145.0 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 47.500 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN084370.D
Acq: 09 Oct 2024 16:20

Tgt Ion: 65 Resp: 134358
Ion Ratio Lower Upper
65 100
67 52.4 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN084370.D

Acq: 09 Oct 2024 16:20

Instrument :

MSVOA_N

ClientSampleId :

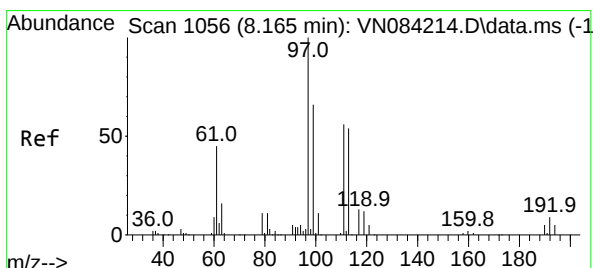
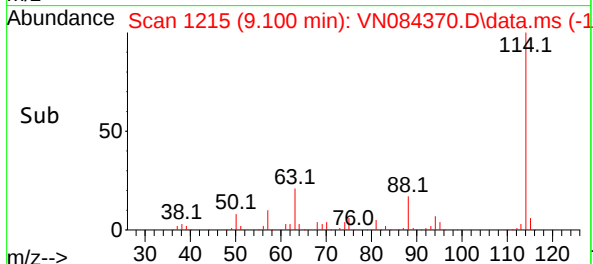
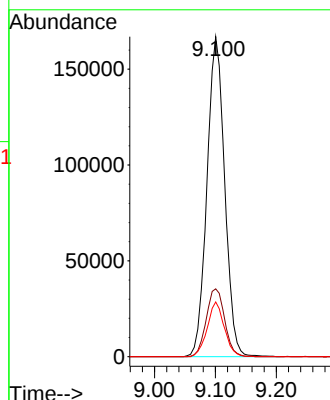
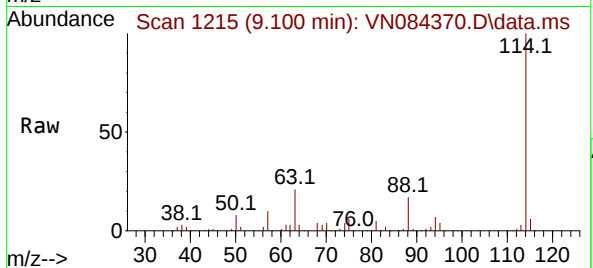
Tgt Ion:114 Resp: 337297

Ion Ratio Lower Upper

114 100

63 21.2 0.0 43.8

88 17.1 0.0 31.6



#35

Dibromofluoromethane

Concen: 46.276 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN084370.D

Acq: 09 Oct 2024 16:20

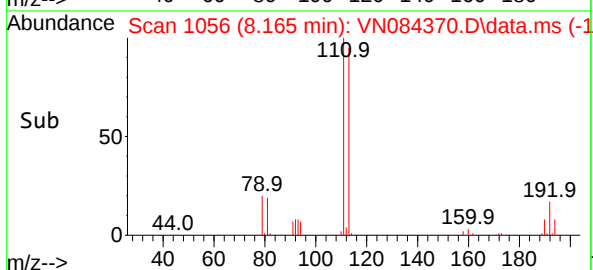
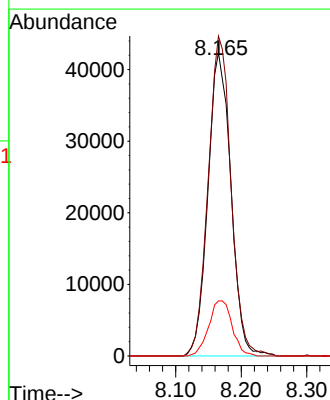
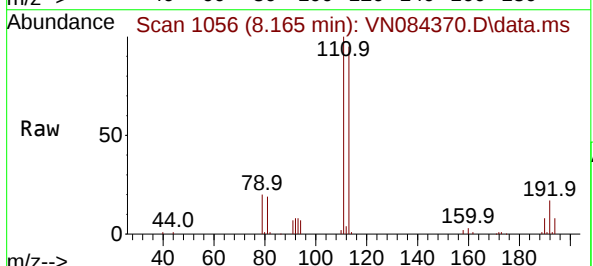
Tgt Ion:113 Resp: 102902

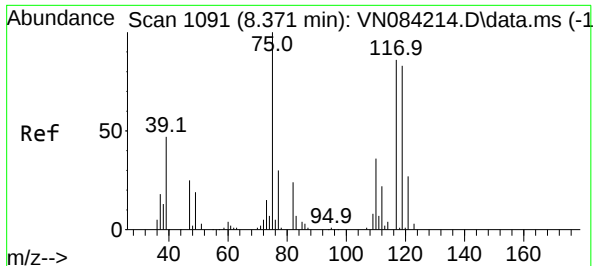
Ion Ratio Lower Upper

113 100

111 105.1 83.3 124.9

192 18.6 13.5 20.3





#36

1,1-Dichloropropene

Concen: 5.338 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN084370.D

Acq: 09 Oct 2024 16:20

Instrument :

MSVOA_N

ClientSampleId :

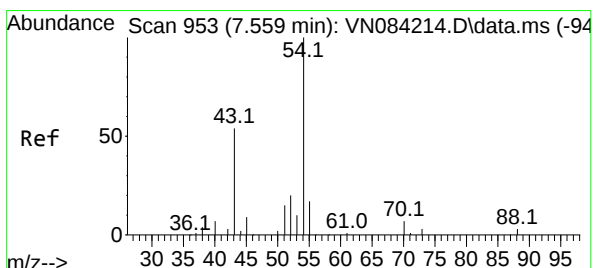
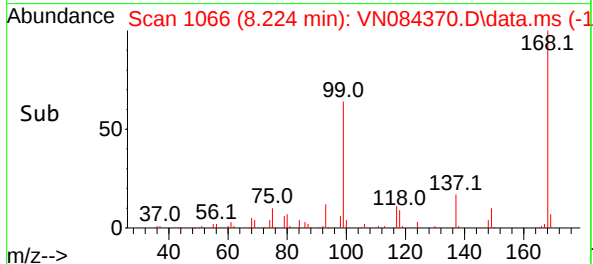
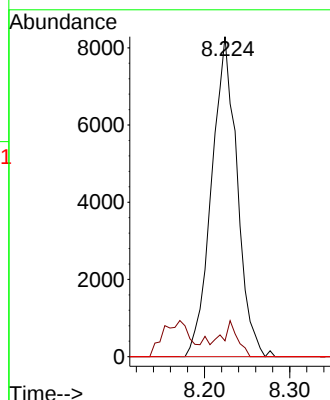
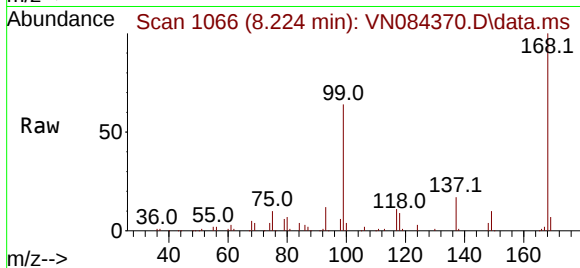
Tgt Ion: 75 Resp: 17241

Ion Ratio Lower Upper

75 100

110 7.2 16.9 50.7#

77 0.0 24.7 37.1#



#37

Ethyl Acetate

Concen: 0.996 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.006 min

Lab File: VN084370.D

Acq: 09 Oct 2024 16:20

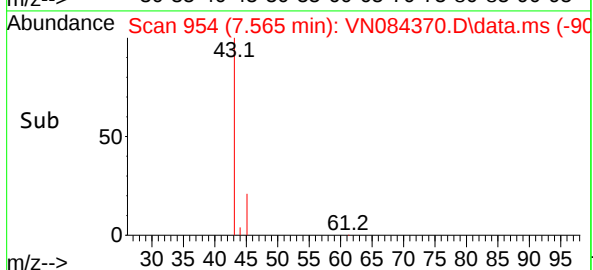
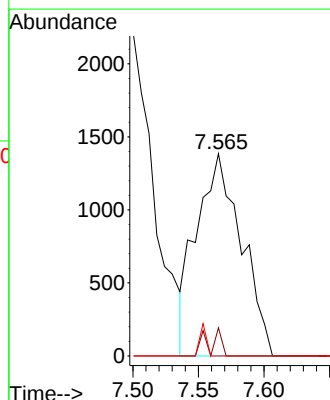
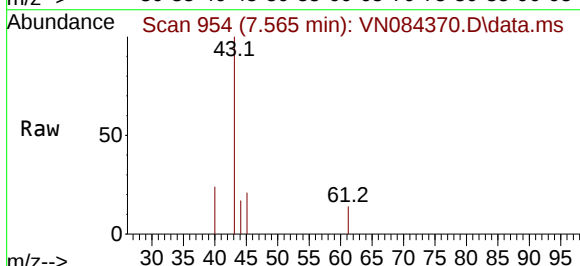
Tgt Ion: 43 Resp: 3299

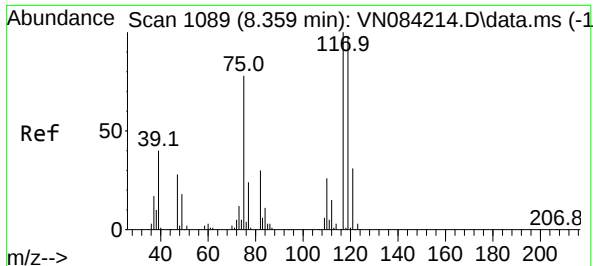
Ion Ratio Lower Upper

43 100

61 3.9 10.7 16.1#

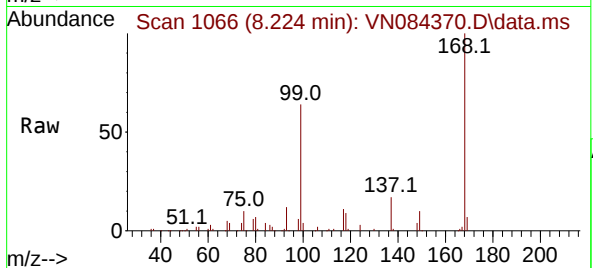
70 2.4 8.8 13.2#



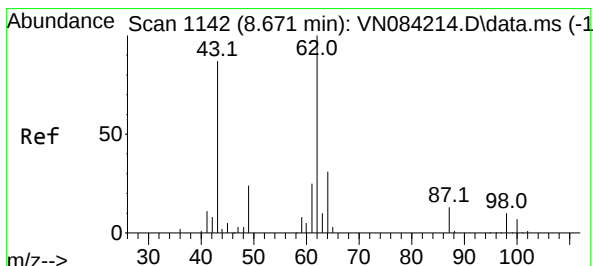
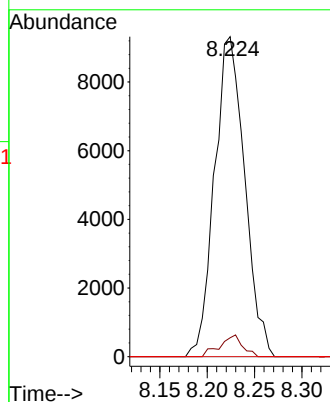
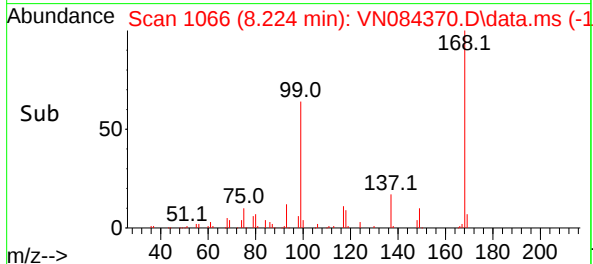


#38
Carbon Tetrachloride
Concen: 5.830 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN084370.D
Acq: 09 Oct 2024 16:20

Instrument :
MSVOA_N
ClientSampleId :

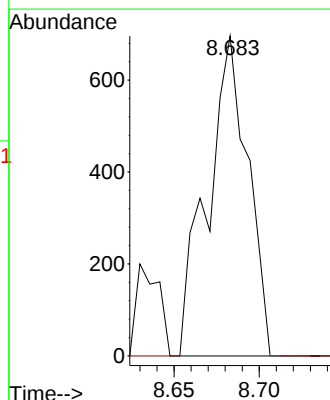
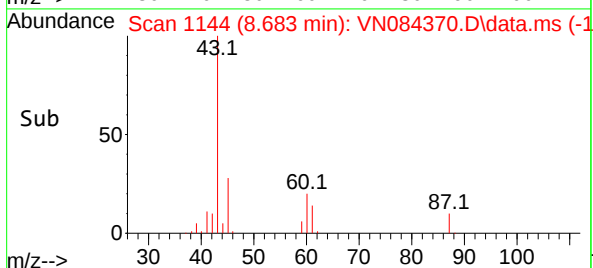
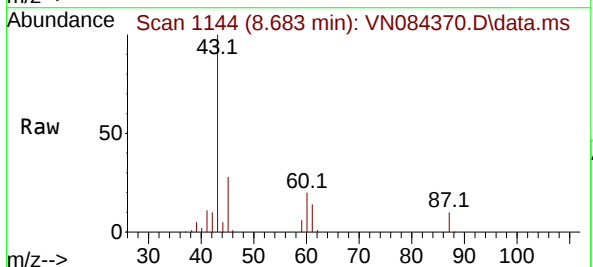


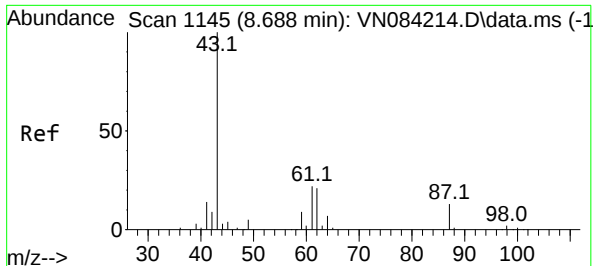
Tgt Ion:117 Resp: 20657
Ion Ratio Lower Upper
117 100
119 5.9 78.7 118.1#
121 0.0 24.4 36.6#



#42
1,2-Dichloroethane
Concen: 0.336 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. 0.012 min
Lab File: VN084370.D
Acq: 09 Oct 2024 16:20

Tgt Ion: 62 Resp: 1148
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.2





#43

Isopropyl Acetate

Concen: 59.516 ug/l

RT: 8.689 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084370.D

Acq: 09 Oct 2024 16:20

Instrument :

MSVOA_N

ClientSampleId :

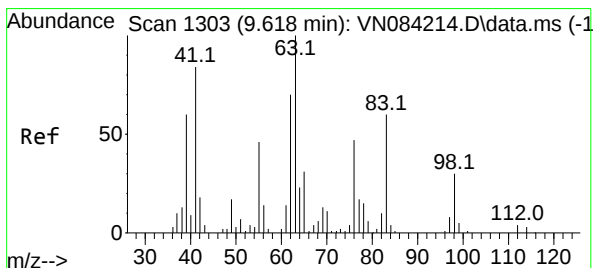
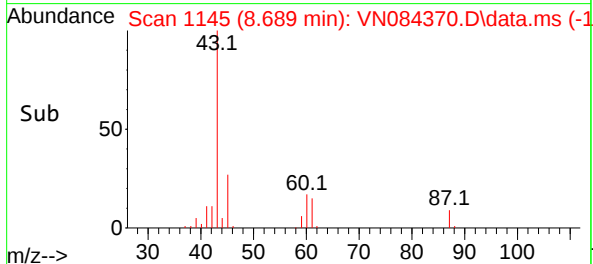
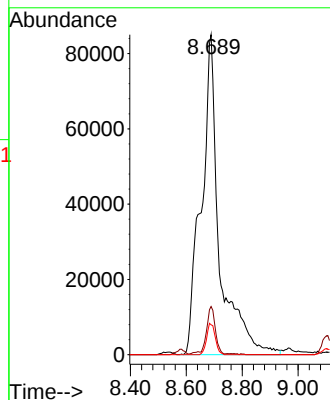
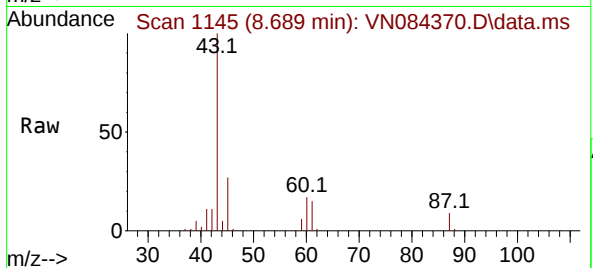
Tgt Ion: 43 Resp: 386288

Ion Ratio Lower Upper

43 100

61 7.2 20.4 30.6#

87 4.6 10.3 15.5#



#45

1,2-Dichloropropane

Concen: 0.483 ug/l

RT: 9.742 min Scan# 1324

Delta R.T. 0.124 min

Lab File: VN084370.D

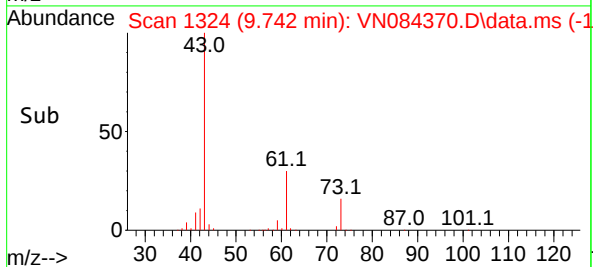
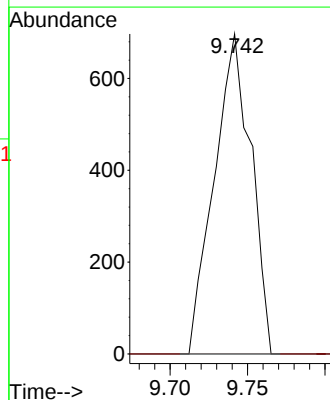
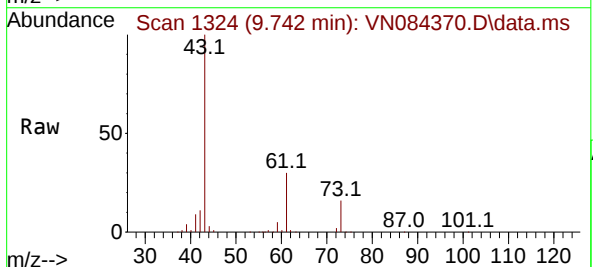
Acq: 09 Oct 2024 16:20

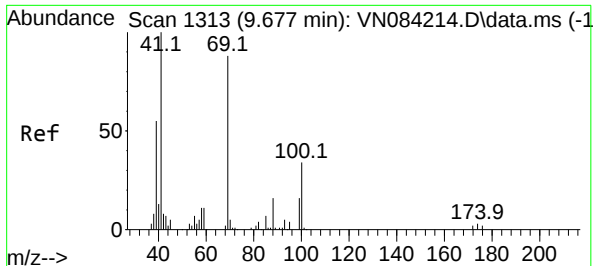
Tgt Ion: 63 Resp: 1150

Ion Ratio Lower Upper

63 100

65 0.0 24.6 37.0#





#48

Methyl methacrylate

Concen: 1.333 ug/l

RT: 9.659 min Scan# 11

Delta R.T. -0.017 min

Lab File: VN084370.D

Acq: 09 Oct 2024 16:20

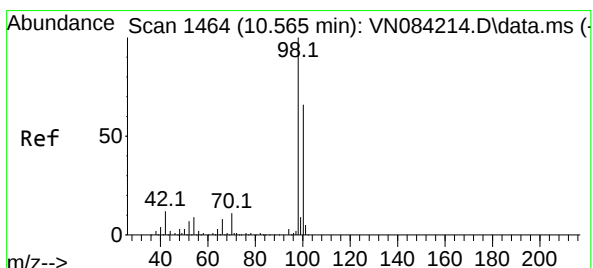
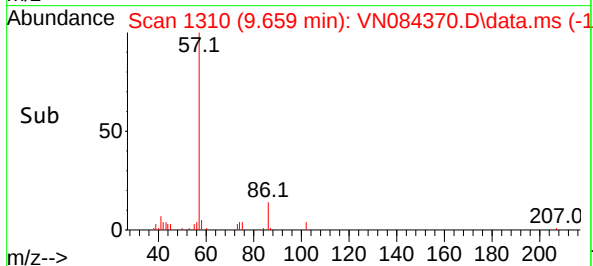
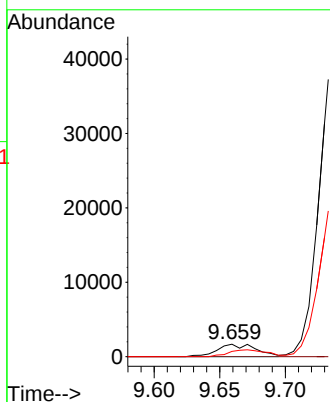
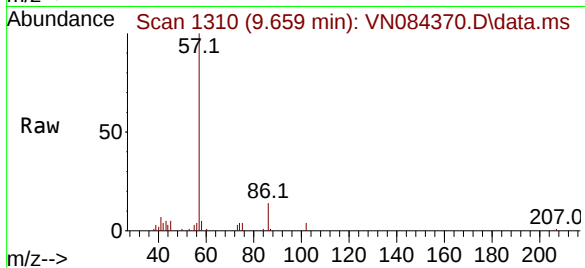
Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 41 Resp: 3445

Ion	Ratio	Lower	Upper
41	100		
69	0.0	67.1	100.7#
39	53.2	45.8	68.6



#50

Toluene-d8

Concen: 49.255 ug/l

RT: 10.565 min Scan# 1464

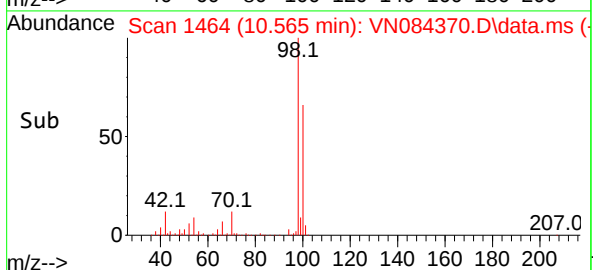
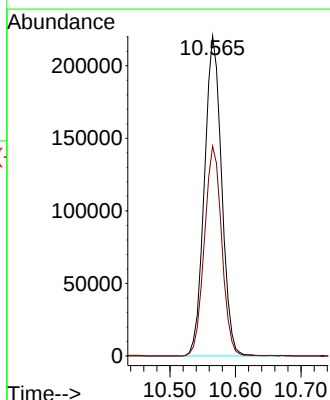
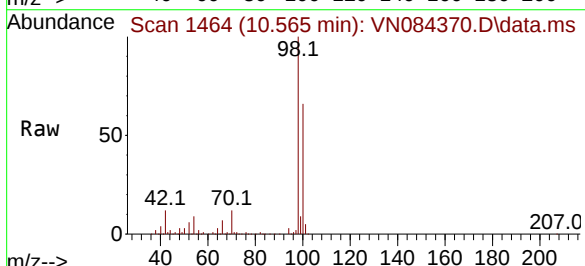
Delta R.T. 0.000 min

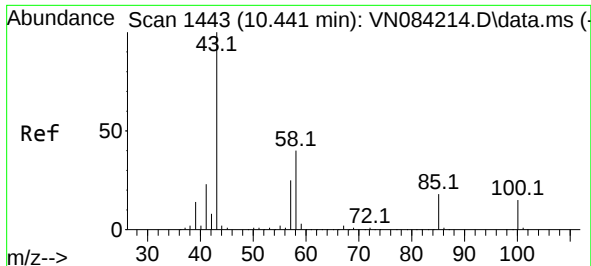
Lab File: VN084370.D

Acq: 09 Oct 2024 16:20

Tgt Ion: 98 Resp: 402965

Ion	Ratio	Lower	Upper
98	100		
100	66.0	52.7	79.1

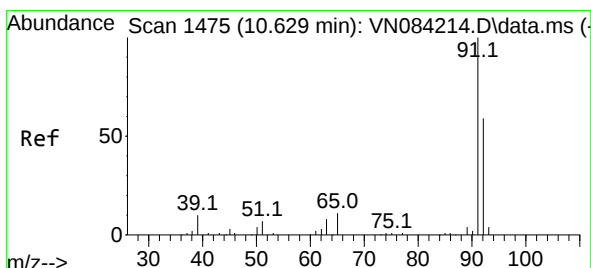
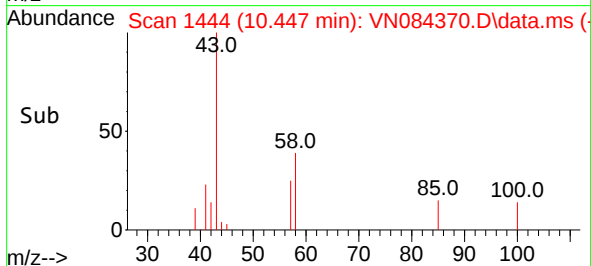
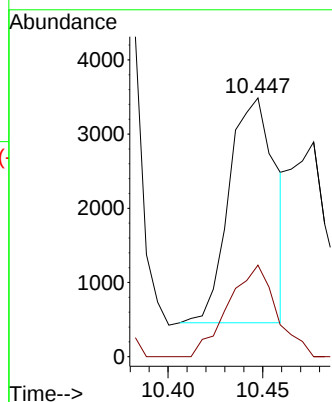
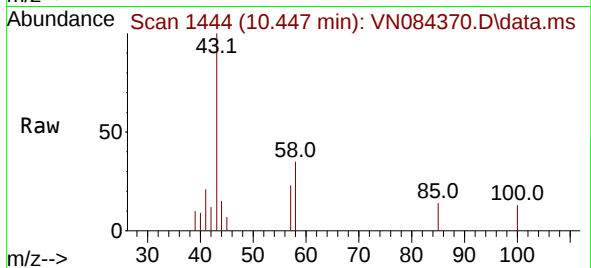




#51
4-Methyl-2-Pentanone
Concen: 1.637 ug/l
RT: 10.447 min Scan# 1443
Delta R.T. 0.006 min
Lab File: VN084370.D
Acq: 09 Oct 2024 16:20

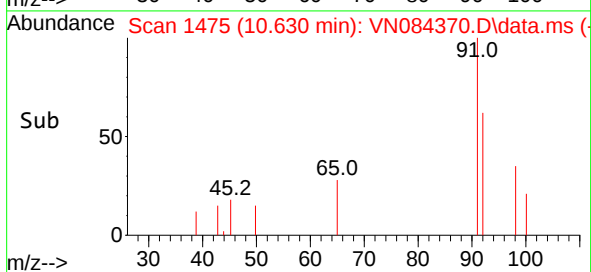
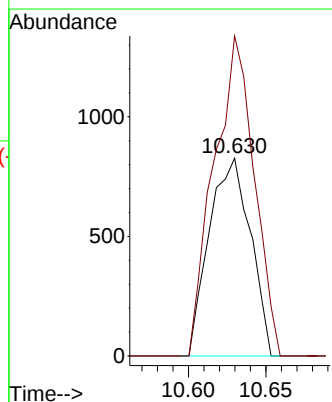
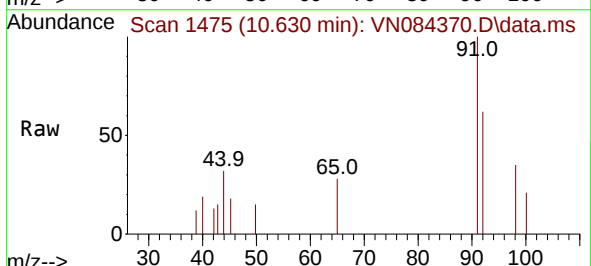
Instrument :
MSVOA_N
ClientSampleId :

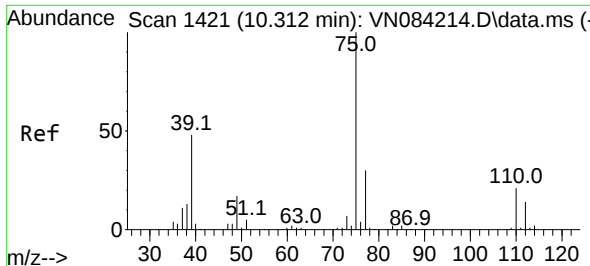
Tgt Ion: 43 Resp: 5165
Ion Ratio Lower Upper
43 100
58 42.2 31.6 47.4



#52
Toluene
Concen: 0.249 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN084370.D
Acq: 09 Oct 2024 16:20

Tgt Ion: 92 Resp: 1528
Ion Ratio Lower Upper
92 100
91 158.1 137.3 205.9

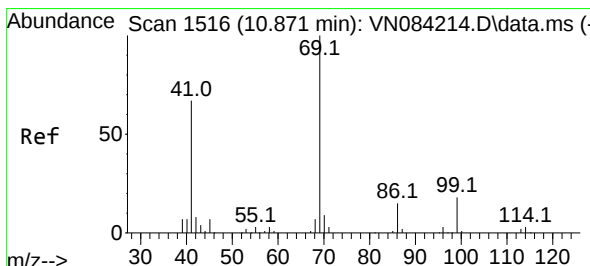
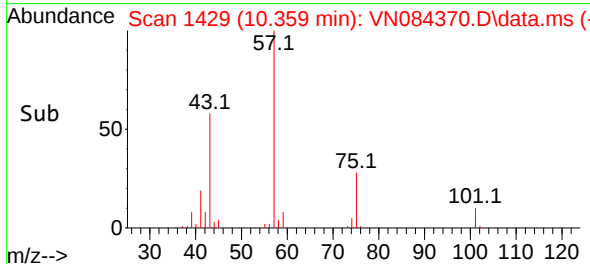
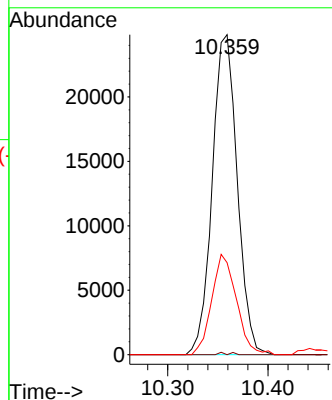
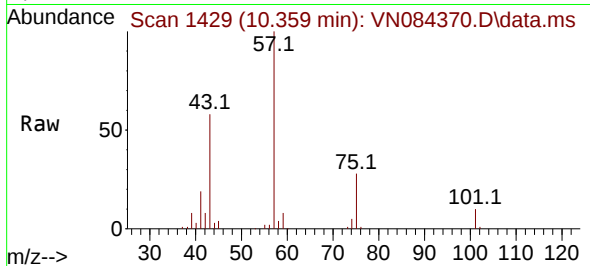




#54
cis-1,3-Dichloropropene
Concen: 10.995 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN084370.D
Acq: 09 Oct 2024 16:20

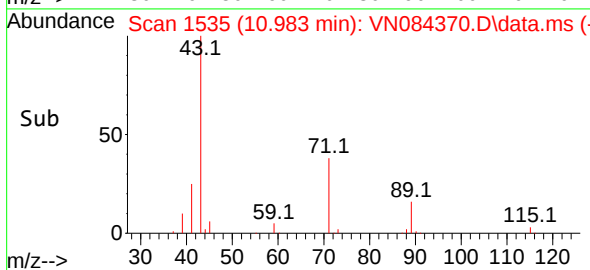
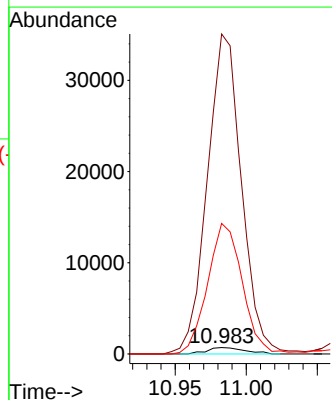
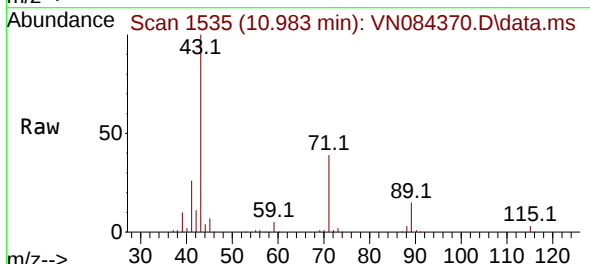
Instrument :
MSVOA_N
ClientSampleId :

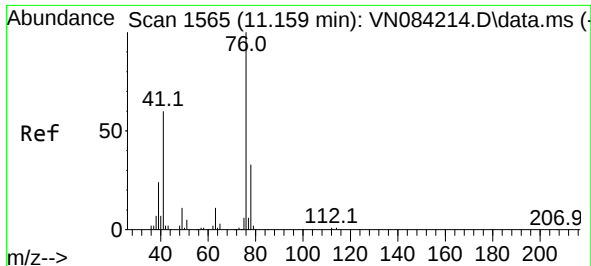
Tgt Ion: 75 Resp: 43028
Ion Ratio Lower Upper
75 100
77 0.0 24.2 36.2#
39 28.8 38.7 58.1#



#56
Ethyl methacrylate
Concen: 0.359 ug/l
RT: 10.983 min Scan# 1535
Delta R.T. 0.112 min
Lab File: VN084370.D
Acq: 09 Oct 2024 16:20

Tgt Ion: 69 Resp: 1299
Ion Ratio Lower Upper
69 100
41 4528.3 53.3 79.9#
39 1877.7 28.8 43.2#





#57

1,3-Dichloropropane

Concen: 1.240 ug/l

RT: 11.200 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN084370.D

Acq: 09 Oct 2024 16:20

Instrument :

MSVOA_N

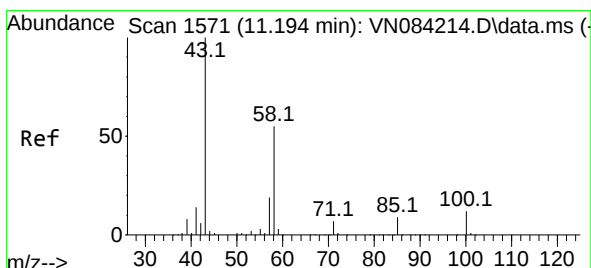
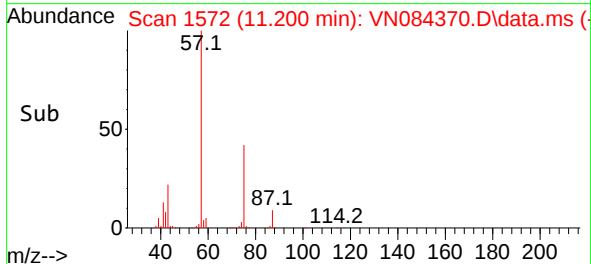
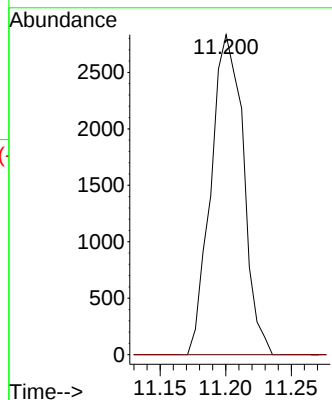
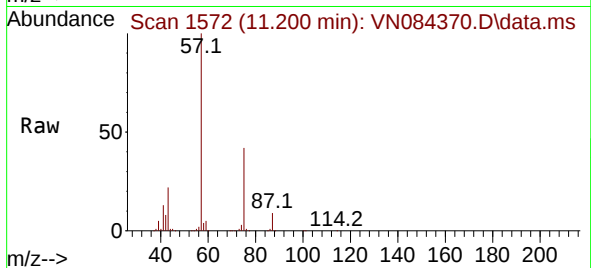
ClientSampleId :

Tgt Ion: 76 Resp: 4874

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 47.487 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.023 min

Lab File: VN084370.D

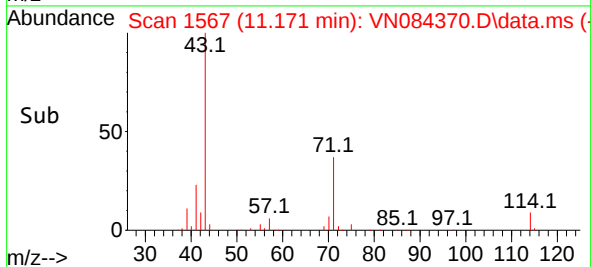
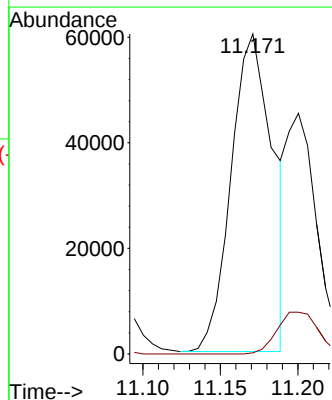
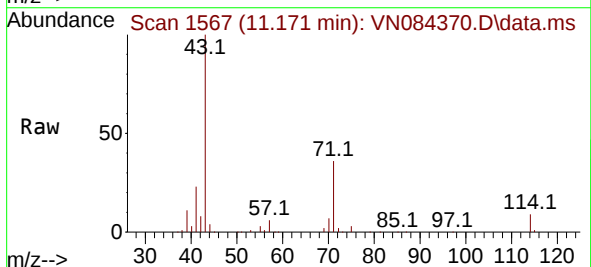
Acq: 09 Oct 2024 16:20

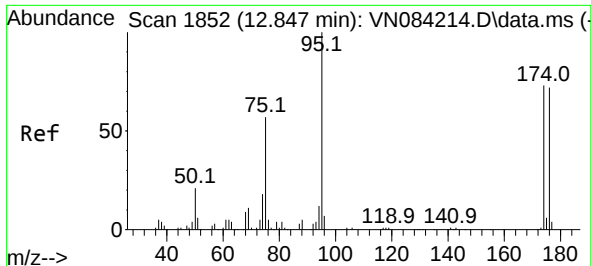
Tgt Ion: 43 Resp: 111959

Ion Ratio Lower Upper

43 100

58 0.0 27.3 81.8#





#62

4-Bromofluorobenzene

Concen: 47.560 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN084370.D

Acq: 09 Oct 2024 16:20

Instrument :

MSVOA_N

ClientSampleId :

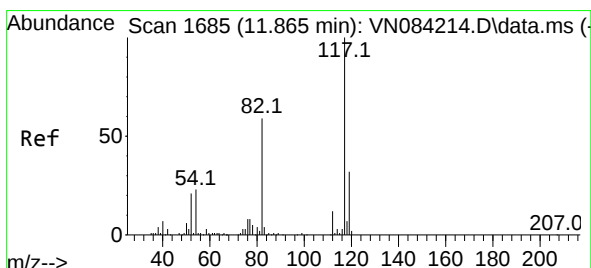
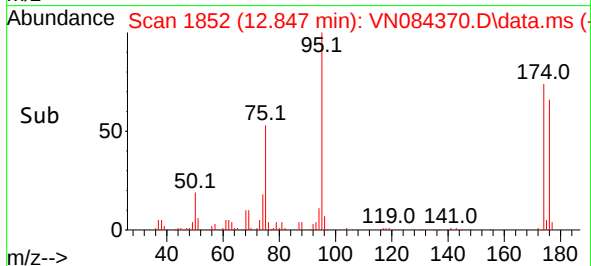
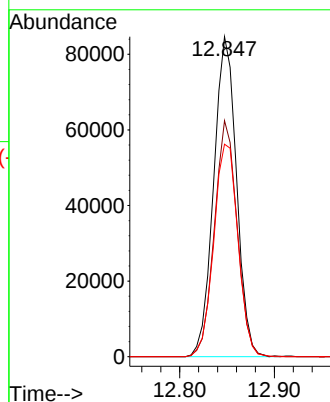
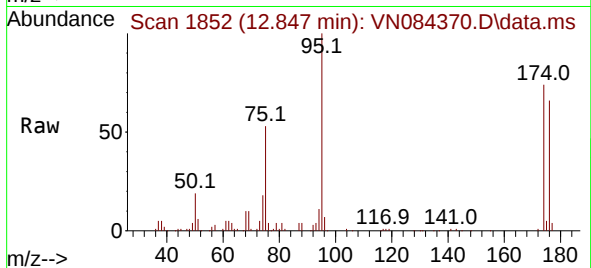
Tgt Ion: 95 Resp: 141751

Ion Ratio Lower Upper

95 100

174 73.5 0.0 145.2

176 70.4 0.0 140.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN084370.D

Acq: 09 Oct 2024 16:20

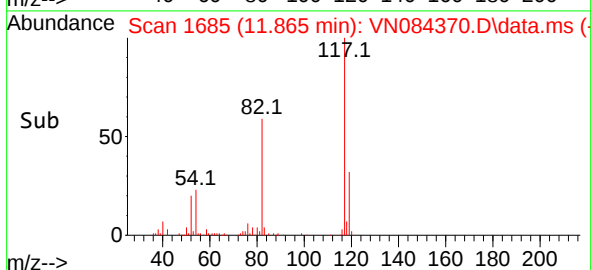
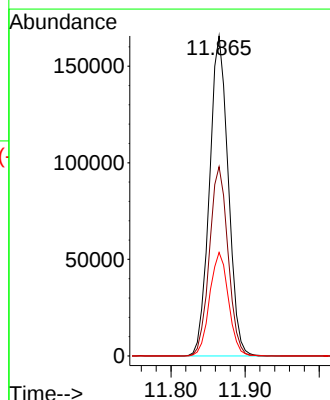
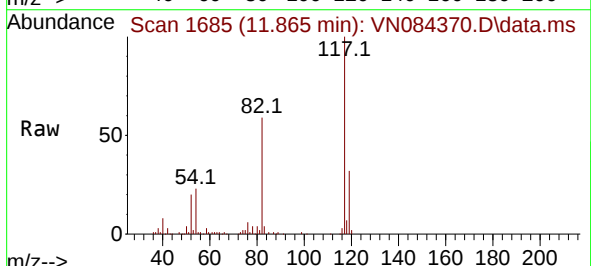
Tgt Ion: 117 Resp: 290834

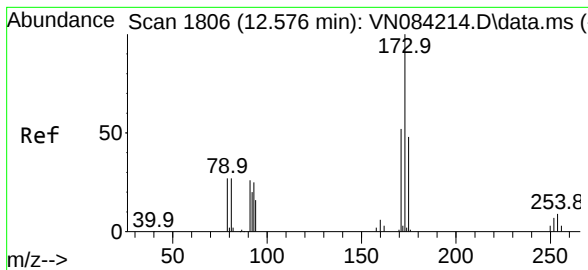
Ion Ratio Lower Upper

117 100

82 59.2 47.2 70.8

119 32.4 25.4 38.0





#71

Bromoform

Concen: 0.245 ug/l

RT: 12.841 min Scan# 1806

Delta R.T. 0.265 min

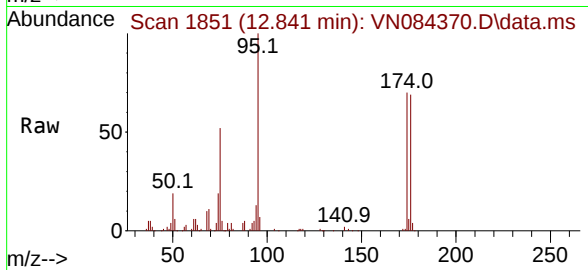
Lab File: VN084370.D

Acq: 09 Oct 2024 16:20

Instrument :

MSVOA_N

ClientSampleId :



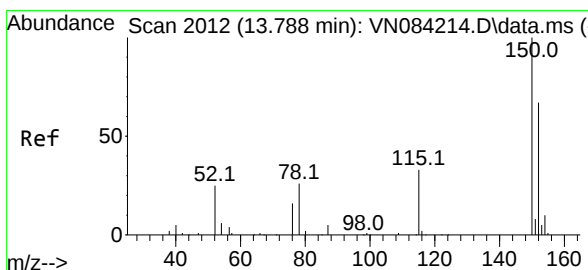
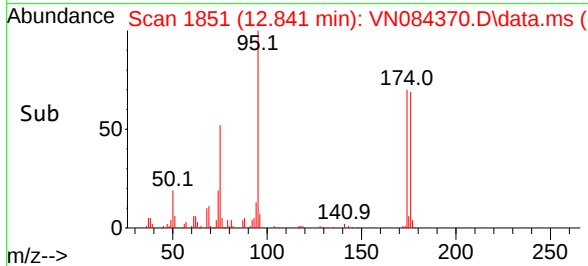
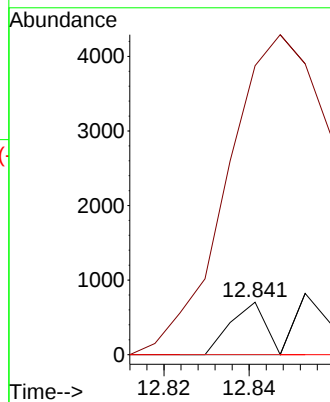
Tgt Ion:173 Resp: 401

Ion Ratio Lower Upper

173 100

175 1442.6 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: VN084370.D

Acq: 09 Oct 2024 16:20

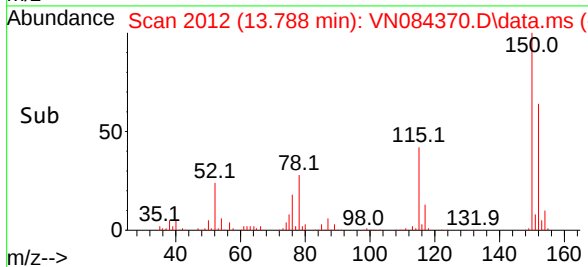
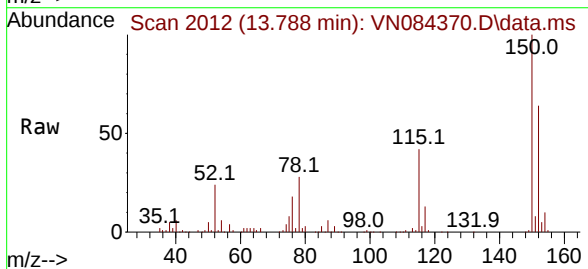
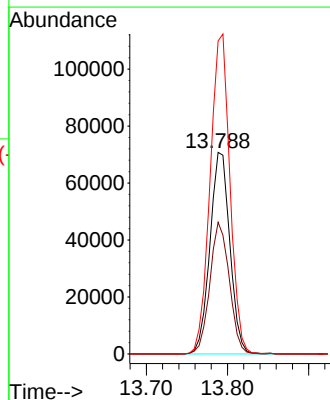
Tgt Ion:152 Resp: 120640

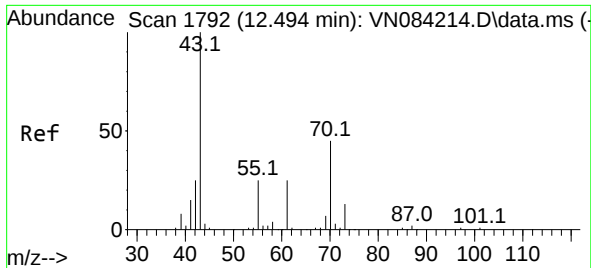
Ion Ratio Lower Upper

152 100

115 63.7 31.3 93.9

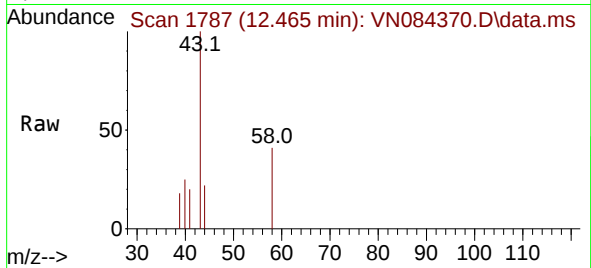
150 157.6 0.0 349.8



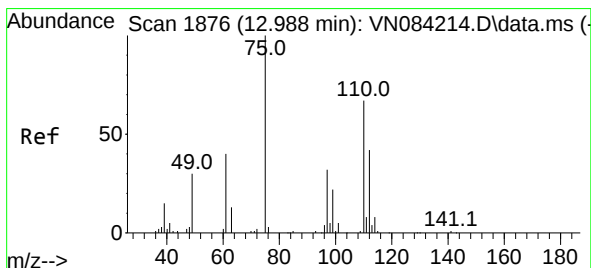
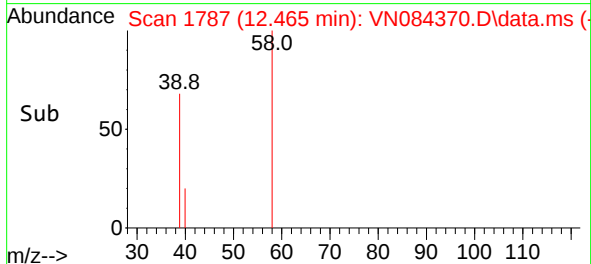
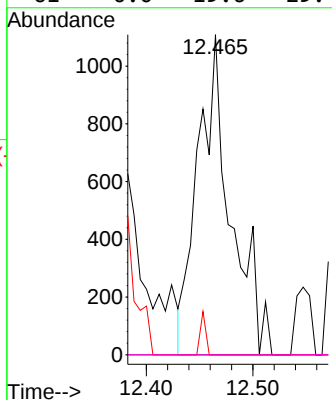


#74
N-amy1 acetate
Concen: 0.569 ug/l
RT: 12.465 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN084370.D
Acq: 09 Oct 2024 16:20

Instrument :
MSVOA_N
ClientSampleId :

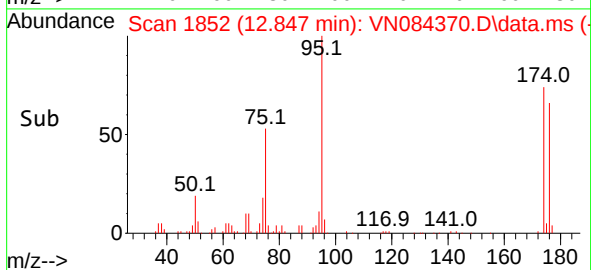
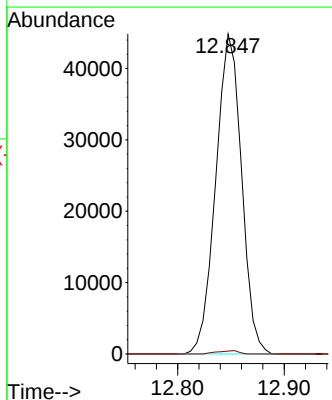
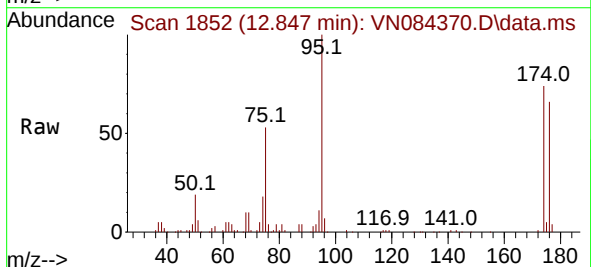


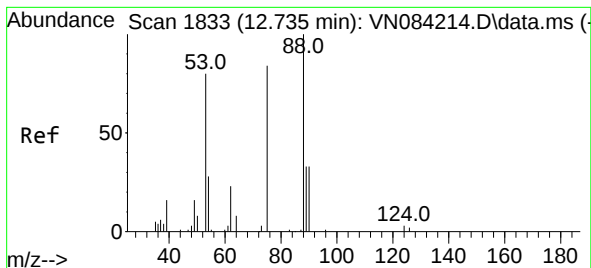
Tgt Ion:	43	Resp:	2372
Ion	Ratio	Lower	Upper
43	100		
70	0.0	34.4	51.6#
55	2.2	19.6	29.4#
61	0.0	19.6	29.4#



#76
1,2,3-Trichloropropane
Concen: 30.587 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084370.D
Acq: 09 Oct 2024 16:20

Tgt Ion:	75	Resp:	75333
Ion	Ratio	Lower	Upper
75	100		
77	0.9	96.9	290.7#

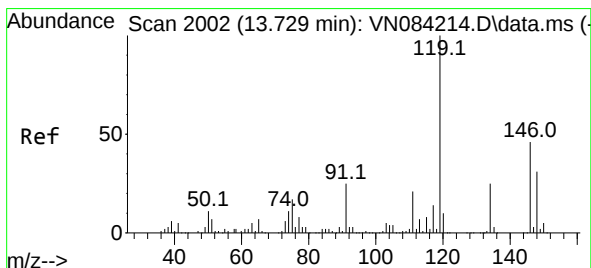
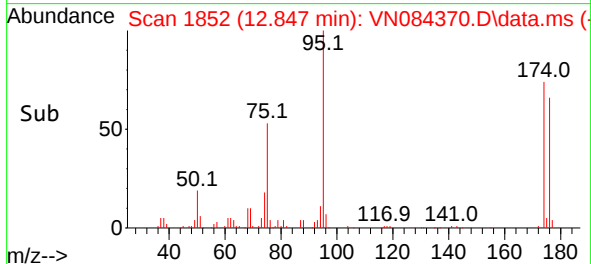
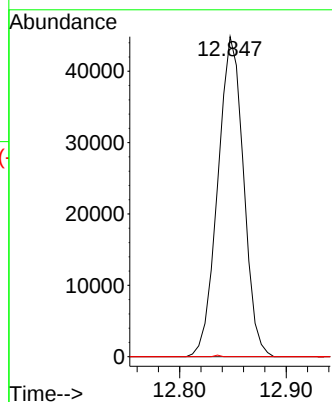
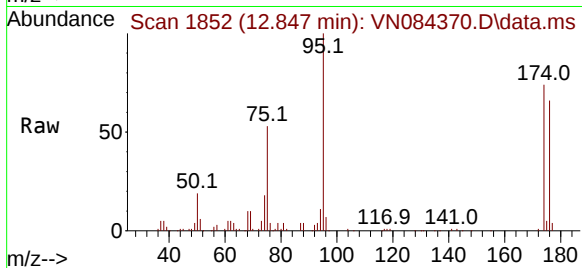




#81
trans-1,4-Dichloro-2-butene
Concen: 73.331 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084370.D
Acq: 09 Oct 2024 16:20

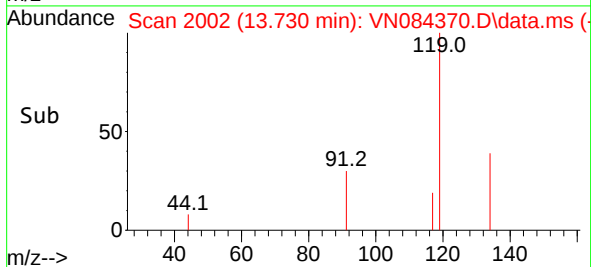
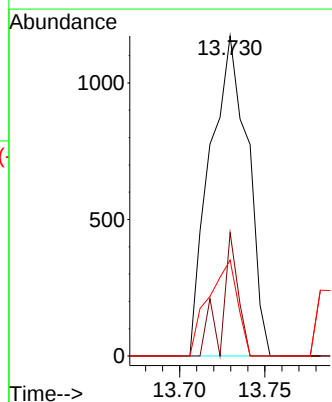
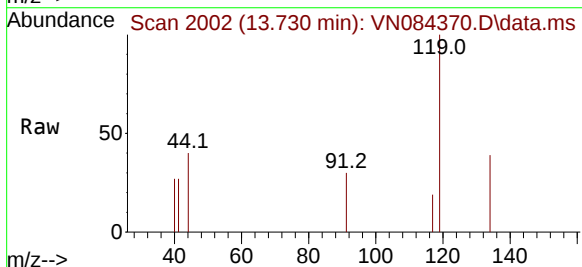
Instrument :
MSVOA_N
ClientSampleId :

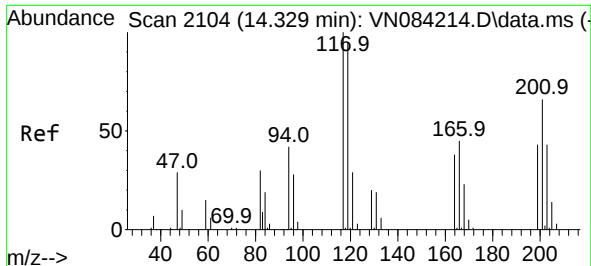
Tgt Ion: 75 Resp: 75333
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.1 35.5 53.3#



#86
p-Isopropyltoluene
Concen: 0.245 ug/l
RT: 13.730 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN084370.D
Acq: 09 Oct 2024 16:20

Tgt Ion: 119 Resp: 1803
Ion Ratio Lower Upper
119 100
134 16.7 12.6 37.8
91 23.3 12.4 37.2

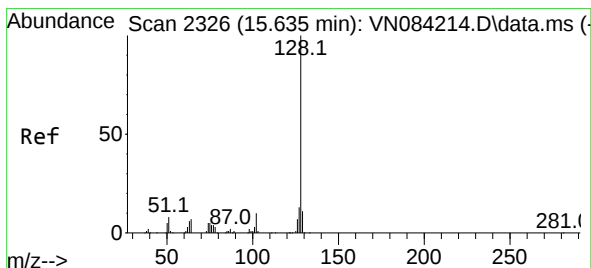
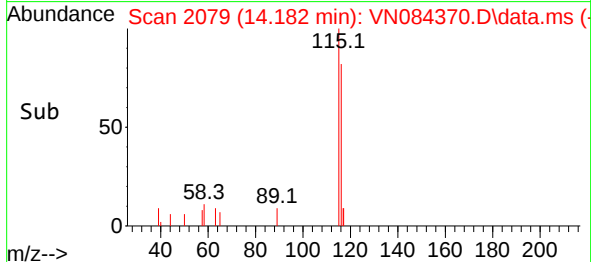
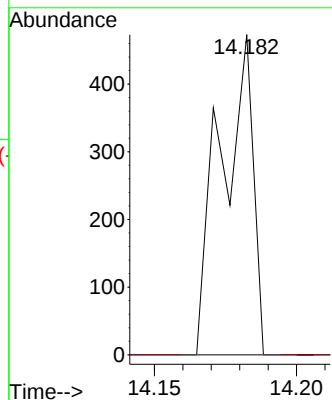
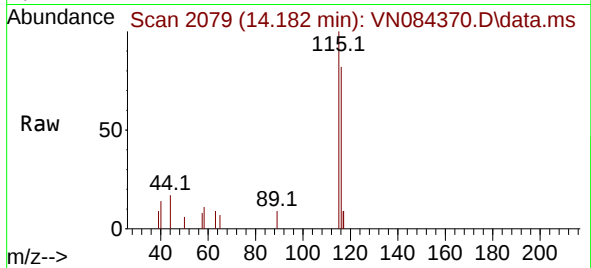




#90
Hexachloroethane
Concen: 0.250 ug/l
RT: 14.182 min Scan# 20
Delta R.T. -0.147 min
Lab File: VN084370.D
Acq: 09 Oct 2024 16:20

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:117 Resp: 374
Ion Ratio Lower Upper
117 100
201 0.0 34.4 103.2#



#95
Naphthalene
Concen: 26.633 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN084370.D
Acq: 09 Oct 2024 16:20

Tgt Ion:128 Resp: 177645
Ion Ratio Lower Upper
128 100
127 13.0 10.5 15.7
129 10.7 8.7 13.1

