

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100124\
 Data File : VN084250.D
 Acq On : 01 Oct 2024 19:30
 Operator : JC\MD
 Sample : P4226-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 02 02:07:48 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

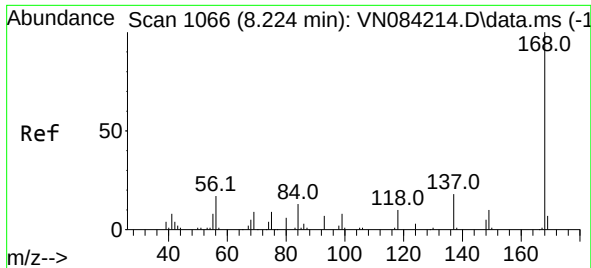
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	158033	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	271710	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	235238	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	90995	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	116775	49.837	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.680%		
35) Dibromofluoromethane	8.165	113	91748	51.219	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	102.440%		
50) Toluene-d8	10.565	98	335877	50.965	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.940%		
62) 4-Bromofluorobenzene	12.847	95	105177	43.807	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	87.620%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	709	0.379	ug/l	86
7) Trichlorofluoromethane	3.495	101	1108	0.344	ug/l	84
9) 1,1,2-Trichlorotrifluo...	4.371	101	52202	28.298	ug/l	100
11) Tert butyl alcohol	5.500	59	634	1.641	ug/l #	73
12) 1,1-Dichloroethene	4.348	96	25296	14.217	ug/l	93
16) Acetone	4.442	43	250	0.248	ug/l #	44
24) 1,1-Dichloroethane	6.565	63	5960	1.667	ug/l #	83
25) 2-Butanone	7.418	43	543	0.396	ug/l #	48
26) 2,2-Dichloropropane	7.418	77	1860	0.577	ug/l #	54
27) cis-1,2-Dichloroethene	7.494	96	5276	2.342	ug/l	97
30) Chloroform	7.971	83	2419	0.651	ug/l #	78
31) Cyclohexane	8.218	56	3669	1.057	ug/l #	11
32) 1,1,1-Trichloroethane	8.171	97	4441	1.332	ug/l #	51
36) 1,1-Dichloropropene	8.224	75	14087	5.414	ug/l #	49
37) Ethyl Acetate	7.418	43	543	0.203	ug/l #	69
38) Carbon Tetrachloride	8.359	117	4618	1.618	ug/l #	85
39) Methylcyclohexane	9.353	83	8964	3.095	ug/l #	1
42) 1,2-Dichloroethane	8.677	62	961	0.350	ug/l #	75
44) Trichloroethene	9.353	130	677983	358.080	ug/l	97
45) 1,2-Dichloropropane	9.341	63	2008	1.047	ug/l #	1
49) 1,4-Dioxane	9.694	88	433	11.301	ug/l #	84
51) 4-Methyl-2-Pentanone	10.559	43	1514	0.596	ug/l #	1
55) 1,1,2-Trichloroethane	11.018	97	1792	1.011	ug/l #	85
60) Dibromochloromethane	11.100	129	502	0.240	ug/l #	11
64) Tetrachloroethene	11.100	164	484	0.295	ug/l #	77
71) Bromoform	12.847	173	600	0.454	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	56891	30.625	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	56891	73.421	ug/l #	11

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

Quant Time: Oct 02 02:07:48 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

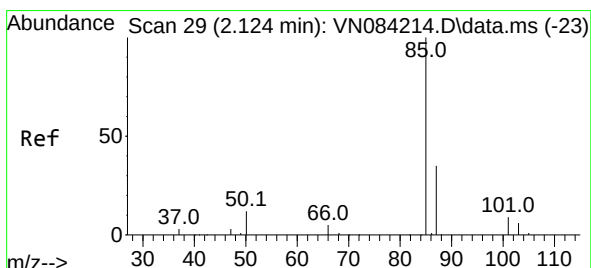
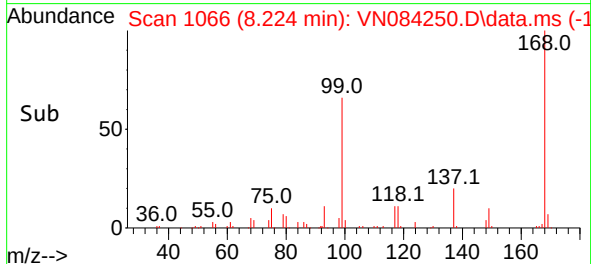
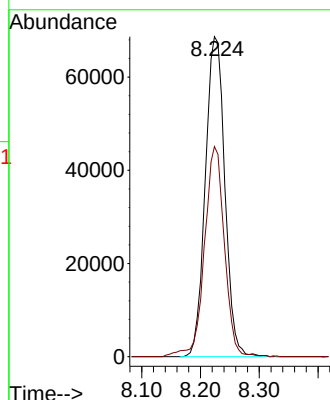
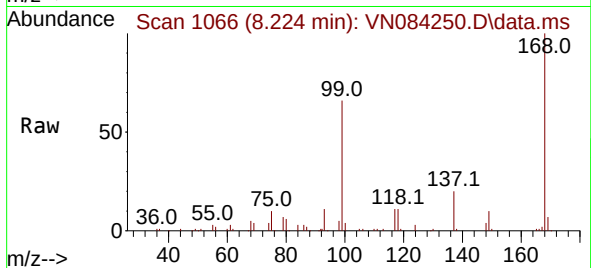




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084250.D
Acq: 01 Oct 2024 19:30

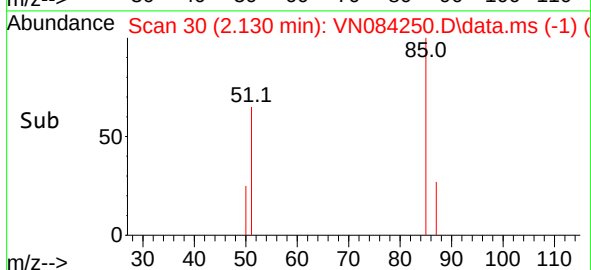
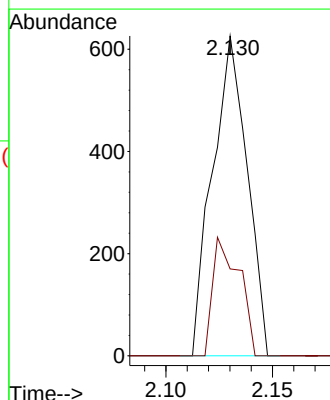
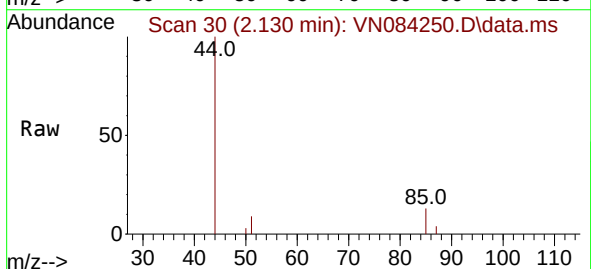
Instrument :
MSVOA_N
ClientSampleId :

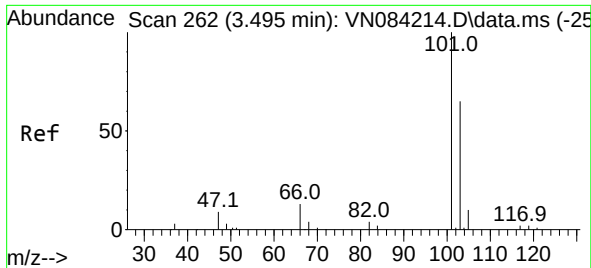
Tgt Ion:168 Resp: 158033
Ion Ratio Lower Upper
168 100
99 65.7 54.2 81.2



#2
Dichlorodifluoromethane
Concen: 0.379 ug/l
RT: 2.130 min Scan# 30
Delta R.T. 0.006 min
Lab File: VN084250.D
Acq: 01 Oct 2024 19:30

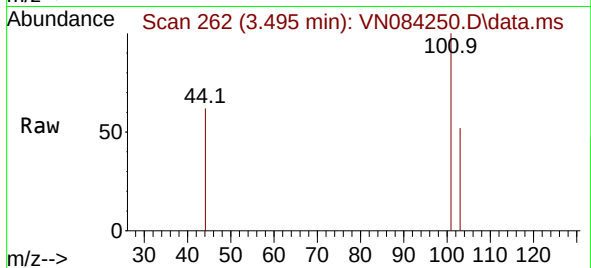
Tgt Ion: 85 Resp: 709
Ion Ratio Lower Upper
85 100
87 27.2 17.6 52.9



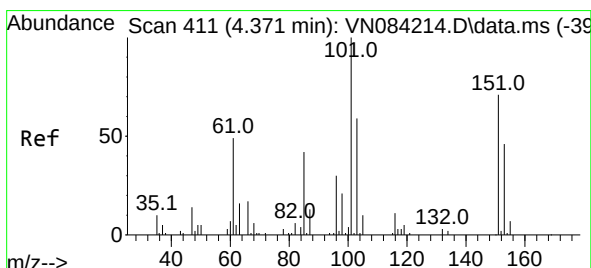
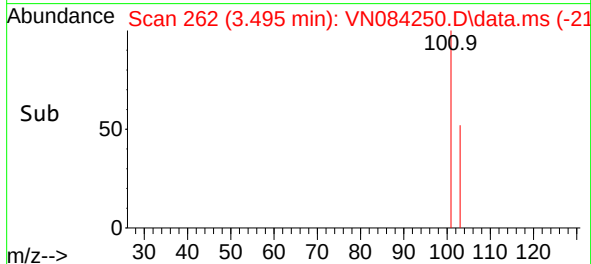
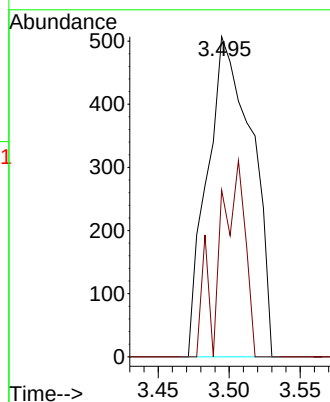


#7
 Trichlorofluoromethane
 Concen: 0.344 ug/l
 RT: 3.495 min Scan# 210
 Delta R.T. 0.000 min
 Lab File: VN084250.D
 Acq: 01 Oct 2024 19:30

Instrument :
 MSVOA_N
 ClientSampleId :

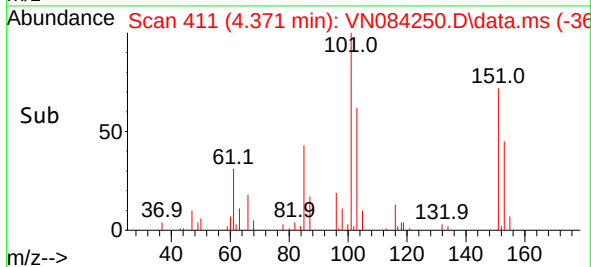
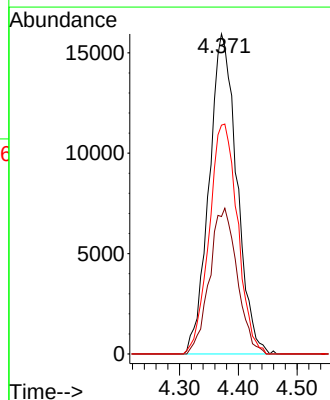
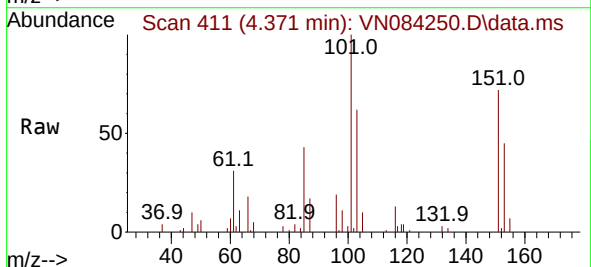


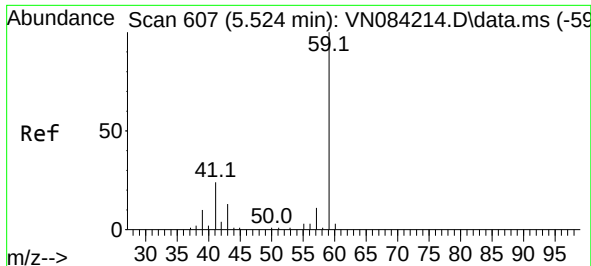
Tgt Ion:101 Resp: 1108
 Ion Ratio Lower Upper
 101 100
 103 52.1 51.8 77.6



#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 28.298 ug/l
 RT: 4.371 min Scan# 411
 Delta R.T. 0.000 min
 Lab File: VN084250.D
 Acq: 01 Oct 2024 19:30

Tgt Ion:101 Resp: 52202
 Ion Ratio Lower Upper
 101 100
 85 45.3 36.2 54.4
 151 73.5 59.3 88.9

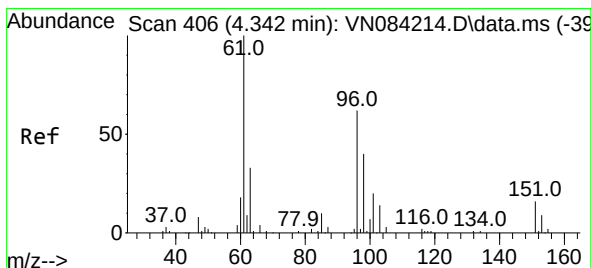
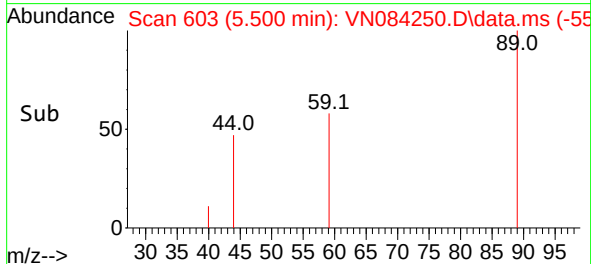
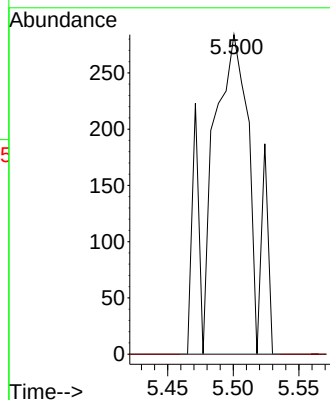
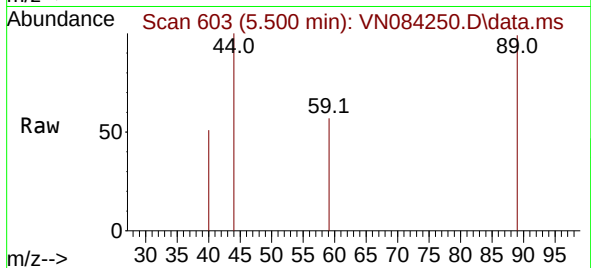




#11
Tert butyl alcohol
Concen: 1.641 ug/l
RT: 5.500 min Scan# 607
Delta R.T. -0.023 min
Lab File: VN084250.D
Acq: 01 Oct 2024 19:30

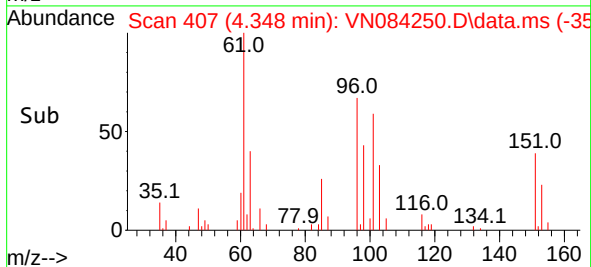
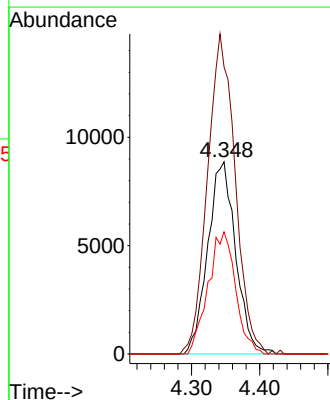
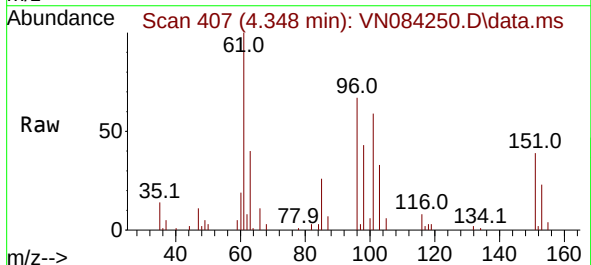
Instrument :
MSVOA_N
ClientSampleId :

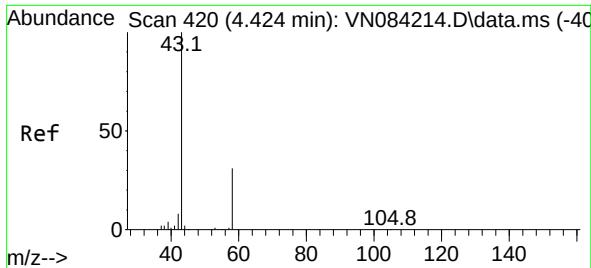
Tgt Ion: 59 Resp: 634
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#12
1,1-Dichloroethene
Concen: 14.217 ug/l
RT: 4.348 min Scan# 407
Delta R.T. 0.006 min
Lab File: VN084250.D
Acq: 01 Oct 2024 19:30

Tgt Ion: 96 Resp: 25296
Ion Ratio Lower Upper
96 100
61 149.4 128.6 192.8
98 63.5 51.7 77.5

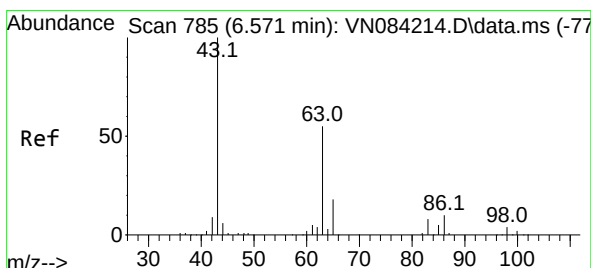
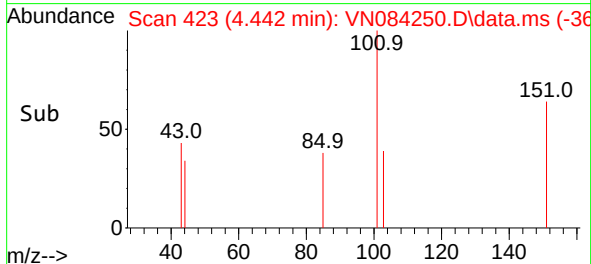
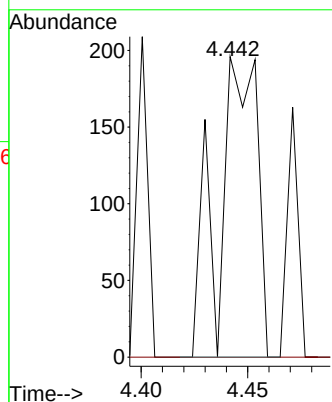
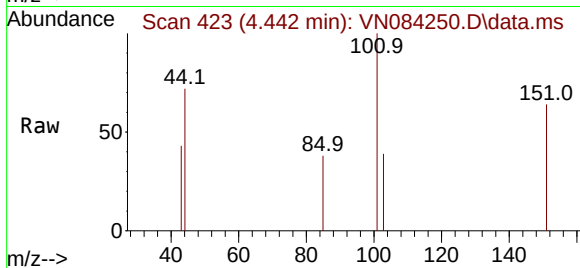




#16
Acetone
Concen: 0.248 ug/l
RT: 4.442 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN084250.D
Acq: 01 Oct 2024 19:30

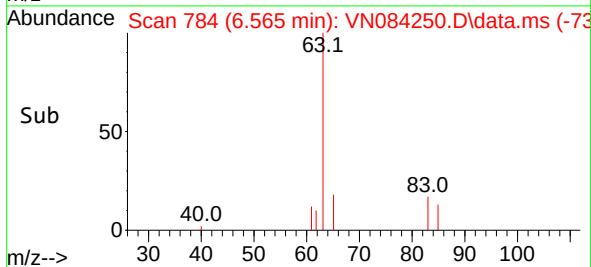
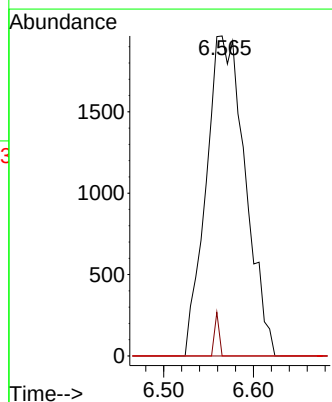
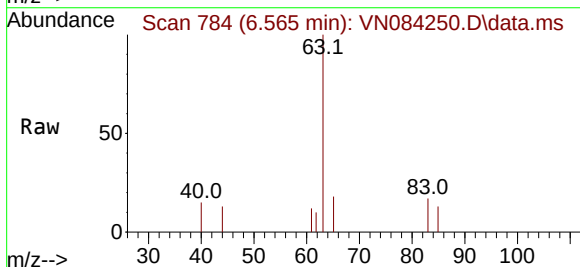
Instrument :
MSVOA_N
ClientSampleId :

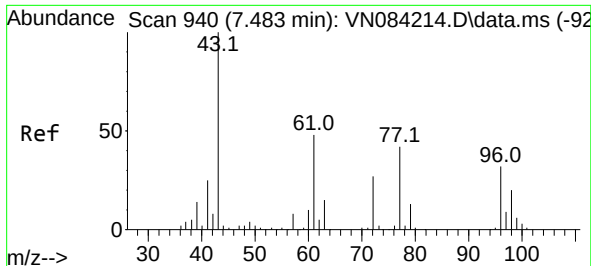
Tgt Ion: 43 Resp: 250
Ion Ratio Lower Upper
43 100
58 0.0 24.4 36.6#



#24
1,1-Dichloroethane
Concen: 1.667 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.006 min
Lab File: VN084250.D
Acq: 01 Oct 2024 19:30

Tgt Ion: 63 Resp: 5960
Ion Ratio Lower Upper
63 100
98 0.0 3.4 10.2#
100 0.0 2.0 5.8#

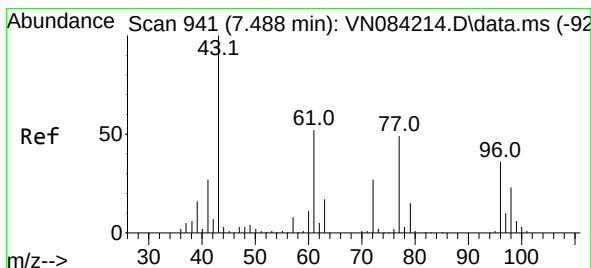
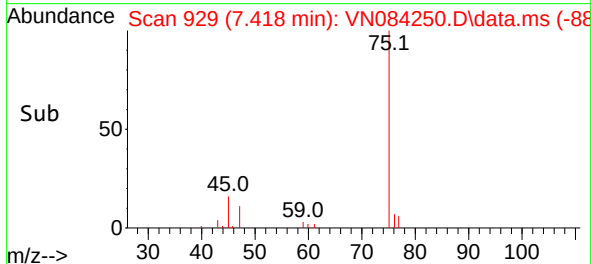
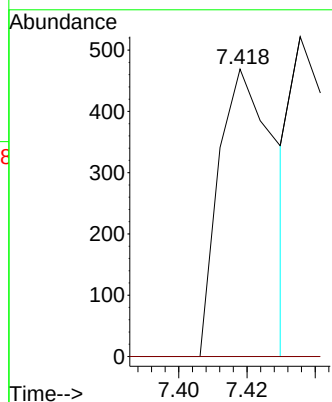
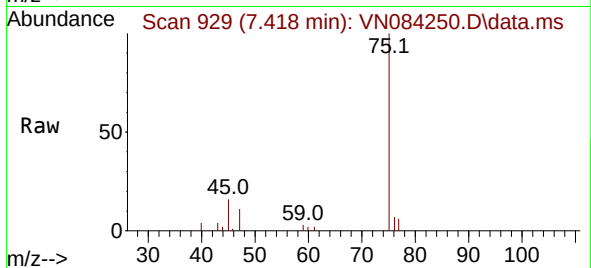




#25
2-Butanone
Concen: 0.396 ug/l
RT: 7.418 min Scan# 91
Delta R.T. -0.065 min
Lab File: VN084250.D
Acq: 01 Oct 2024 19:30

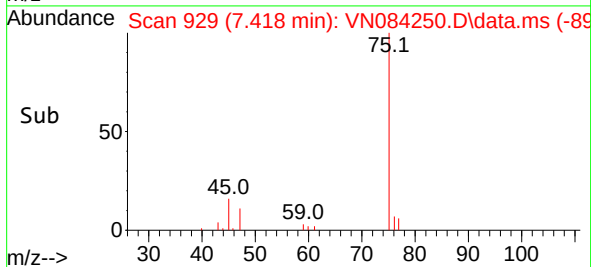
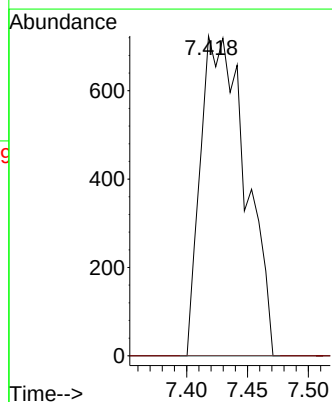
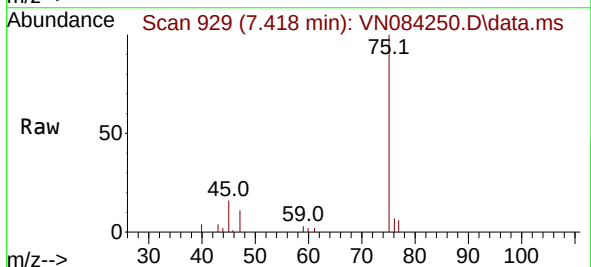
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MSVOA_N
ClientSampleId :

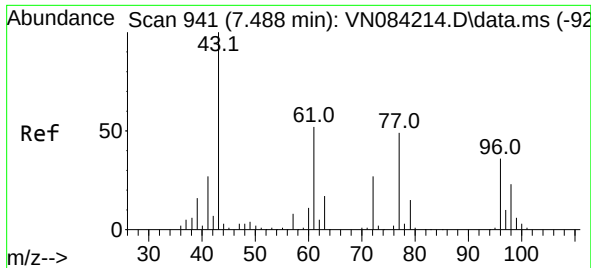
Tgt Ion: 43 Resp: 543
Ion Ratio Lower Upper
43 100
72 0.0 21.4 32.2#



#26
2,2-Dichloropropane
Concen: 0.577 ug/l
RT: 7.418 min Scan# 929
Delta R.T. -0.071 min
Lab File: VN084250.D
Acq: 01 Oct 2024 19:30

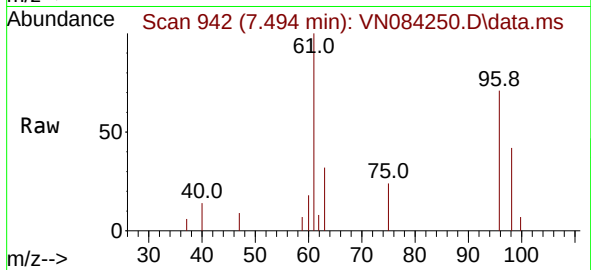
Tgt Ion: 77 Resp: 1860
Ion Ratio Lower Upper
77 100
97 0.0 10.8 32.3#





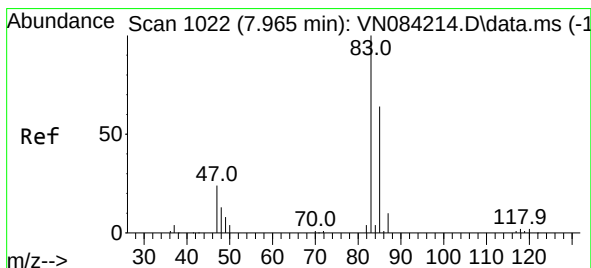
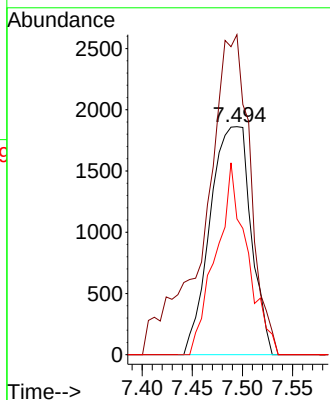
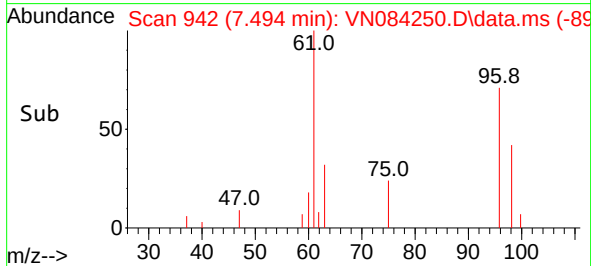
#27
 cis-1,2-Dichloroethene
 Concen: 2.342 ug/l
 RT: 7.494 min Scan# 941
 Delta R.T. 0.006 min
 Lab File: VN084250.D
 Acq: 01 Oct 2024 19:30

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 96 Resp: 5276

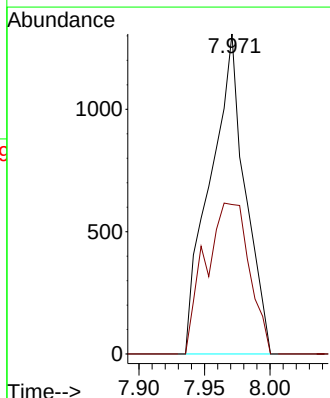
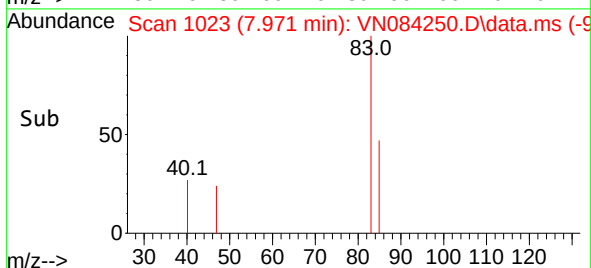
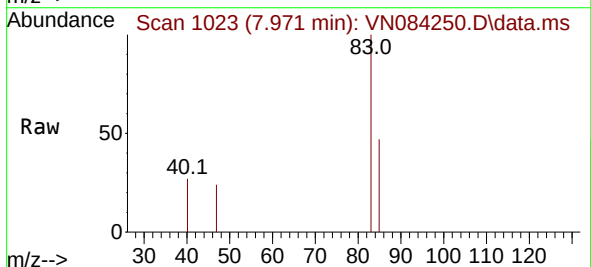
Ion	Ratio	Lower	Upper
96	100		
61	155.9	0.0	301.8
98	64.4	0.0	128.2

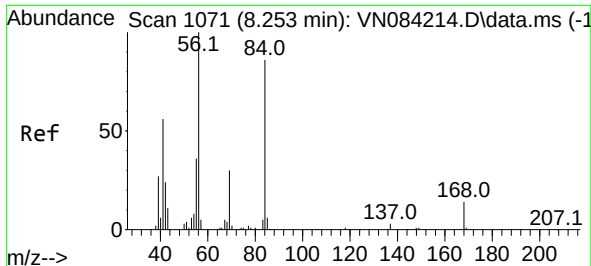


#30
 Chloroform
 Concen: 0.651 ug/l
 RT: 7.971 min Scan# 1023
 Delta R.T. 0.006 min
 Lab File: VN084250.D
 Acq: 01 Oct 2024 19:30

Tgt Ion: 83 Resp: 2419

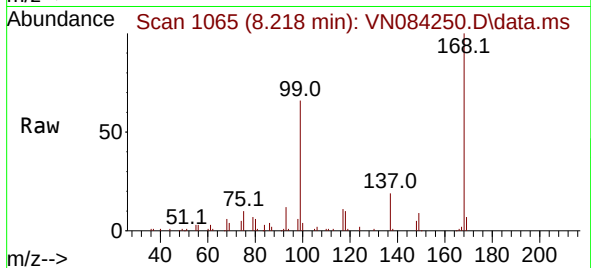
Ion	Ratio	Lower	Upper
83	100		
85	46.7	51.0	76.4#



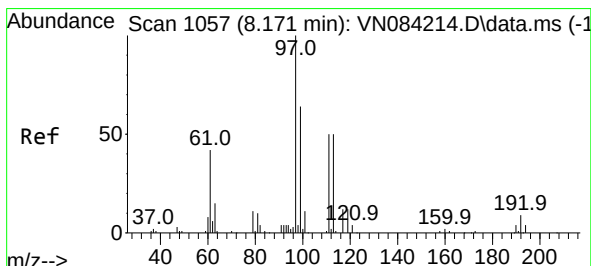
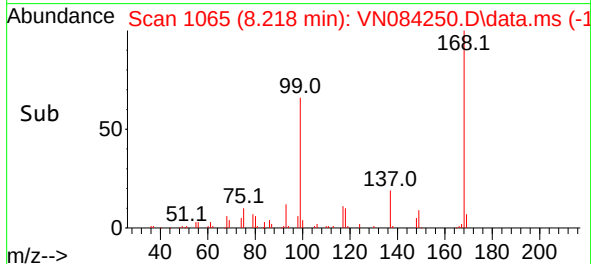
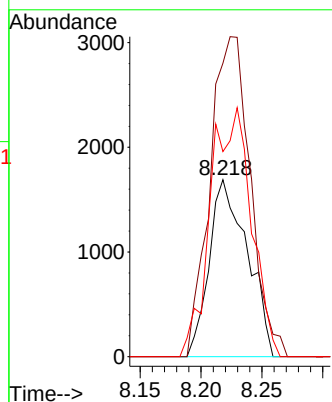


#31
Cyclohexane
Concen: 1.057 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN084250.D
Acq: 01 Oct 2024 19:30

Instrument :
MSVOA_N
ClientSampleId :

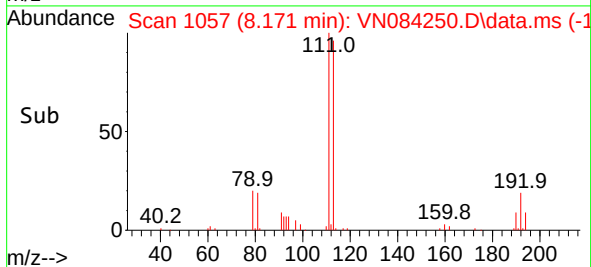
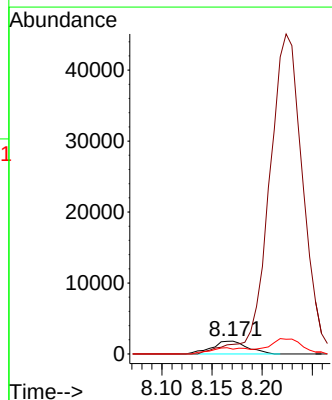
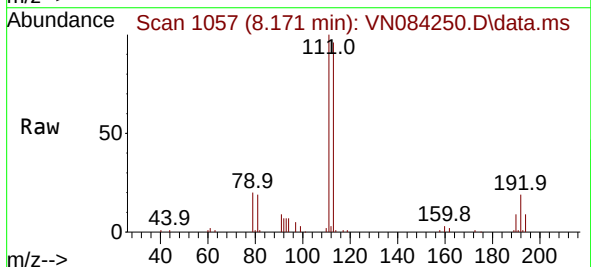


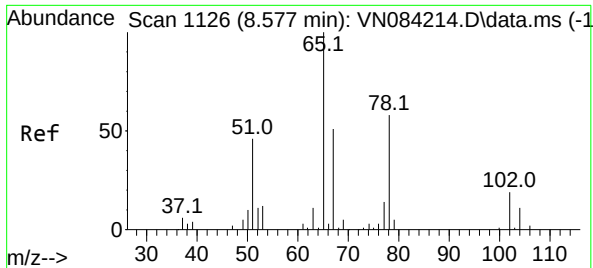
Tgt Ion: 56 Resp: 3669
Ion Ratio Lower Upper
56 100
69 165.8 23.8 35.6#
84 115.8 68.8 103.2#



#32
1,1,1-Trichloroethane
Concen: 1.332 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN084250.D
Acq: 01 Oct 2024 19:30

Tgt Ion: 97 Resp: 4441
Ion Ratio Lower Upper
97 100
99 0.0 51.2 76.8#
61 49.2 37.5 56.3





#33

1,2-Dichloroethane-d4

Concen: 49.837 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN084250.D

Acq: 01 Oct 2024 19:30

Instrument :

MSVOA_N

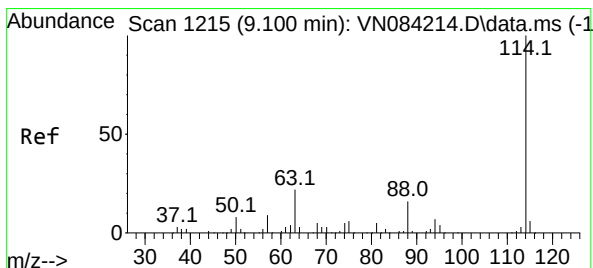
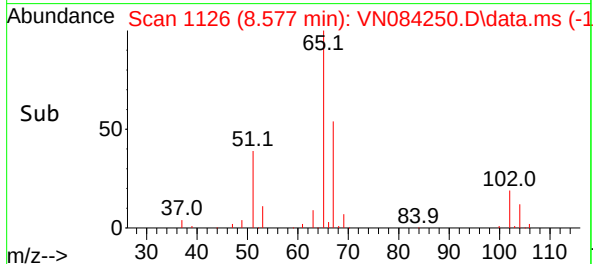
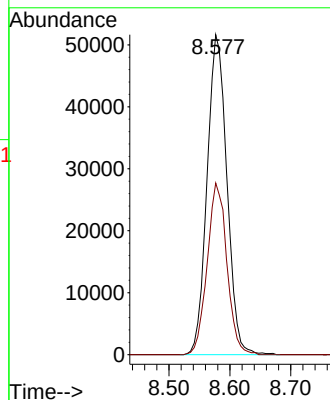
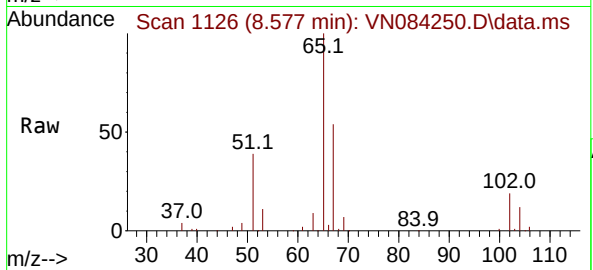
ClientSampleId :

Tgt Ion: 65 Resp: 116775

Ion Ratio Lower Upper

65 100

67 53.2 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: VN084250.D

Acq: 01 Oct 2024 19:30

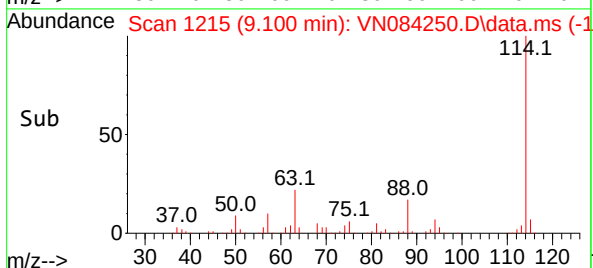
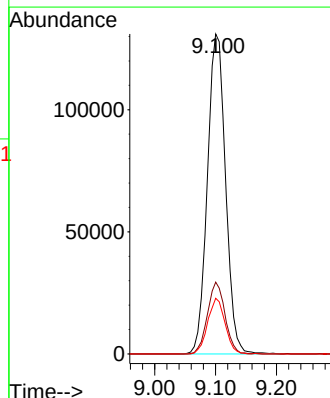
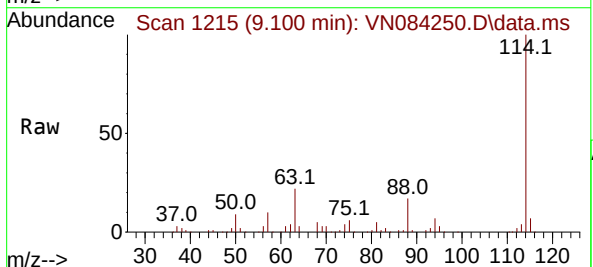
Tgt Ion: 114 Resp: 271710

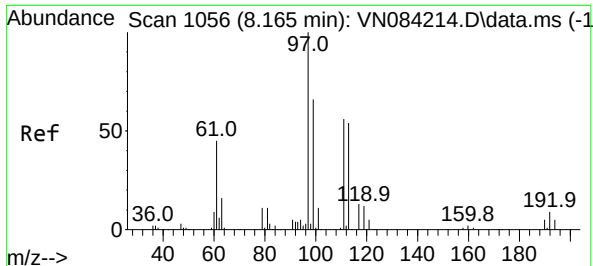
Ion Ratio Lower Upper

114 100

63 22.5 0.0 43.8

88 17.4 0.0 31.6

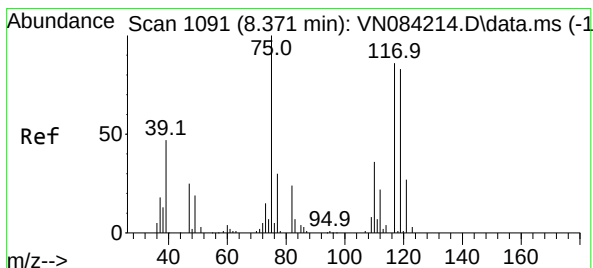
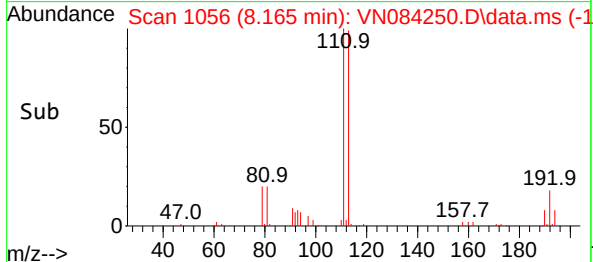
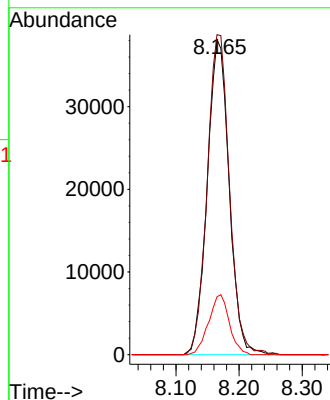
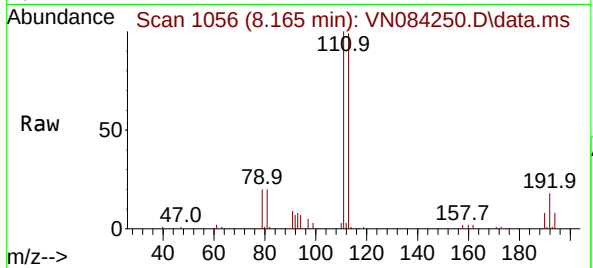




#35
Dibromofluoromethane
Concen: 51.219 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN084250.D
Acq: 01 Oct 2024 19:30

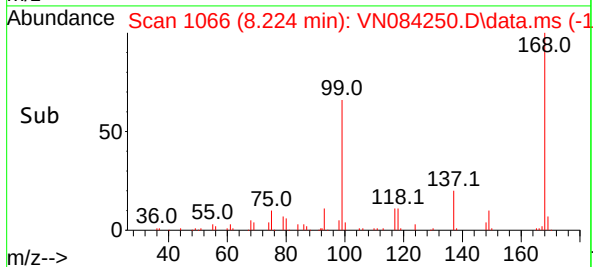
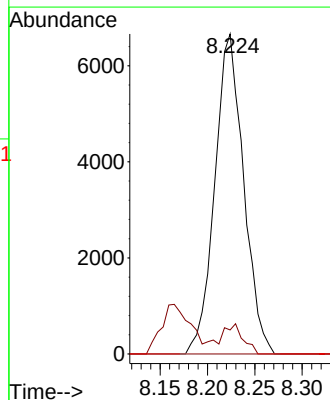
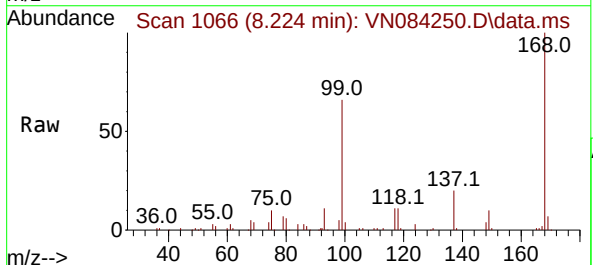
Instrument :
MSVOA_N
ClientSampleId :

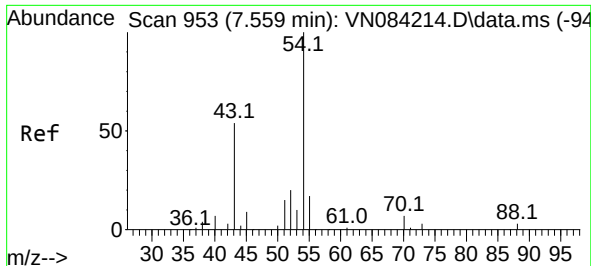
Tgt Ion:113 Resp: 91748
Ion Ratio Lower Upper
113 100
111 102.8 83.3 124.9
192 18.0 13.5 20.3



#36
1,1-Dichloropropene
Concen: 5.414 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN084250.D
Acq: 01 Oct 2024 19:30

Tgt Ion: 75 Resp: 14087
Ion Ratio Lower Upper
75 100
110 7.3 16.9 50.7#
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 0.203 ug/l

RT: 7.418 min Scan# 91

Delta R.T. -0.141 min

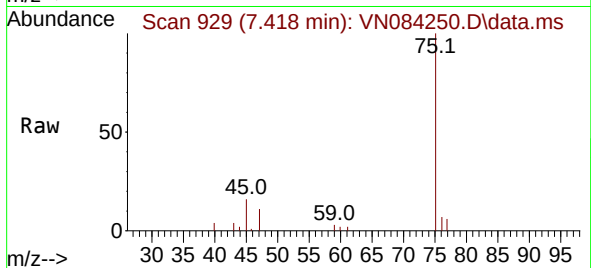
Lab File: VN084250.D

Acq: 01 Oct 2024 19:30

Instrument :

MSVOA_N

ClientSampleId :



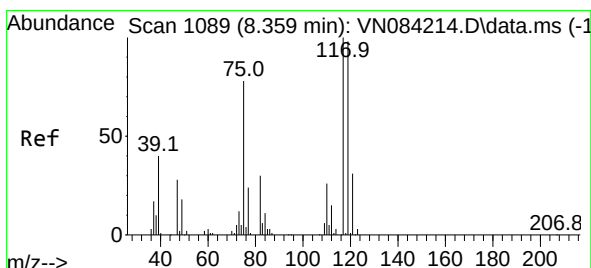
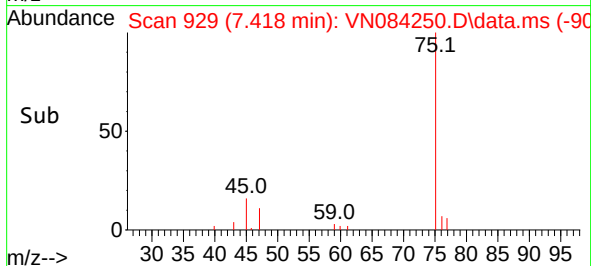
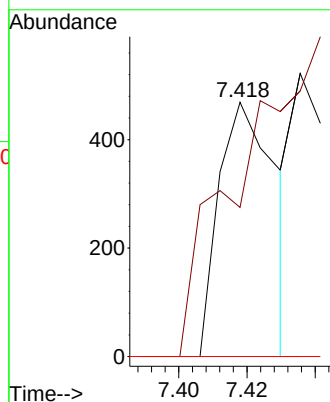
Tgt Ion: 43 Resp: 543

Ion Ratio Lower Upper

43 100

61 0.0 10.7 16.1#

70 0.0 8.8 13.2#



#38

Carbon Tetrachloride

Concen: 1.618 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN084250.D

Acq: 01 Oct 2024 19:30

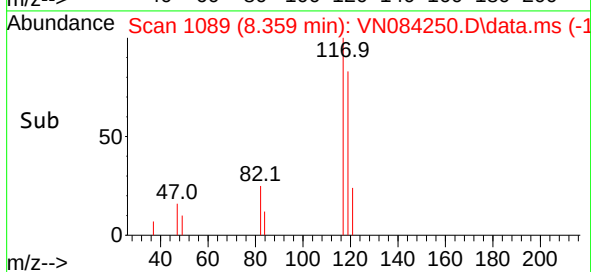
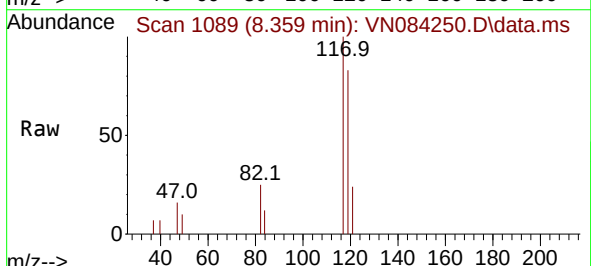
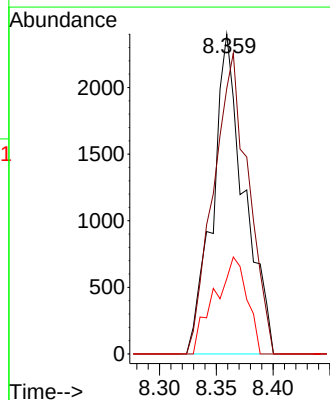
Tgt Ion: 117 Resp: 4618

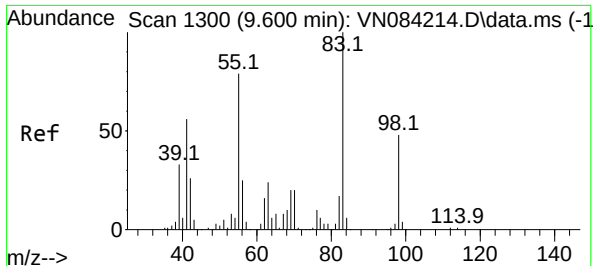
Ion Ratio Lower Upper

117 100

119 83.0 78.7 118.1

121 23.5 24.4 36.6#





#39

Methylcyclohexane

Concen: 3.095 ug/l

RT: 9.353 min Scan# 1128

Delta R.T. -0.247 min

Lab File: VN084250.D

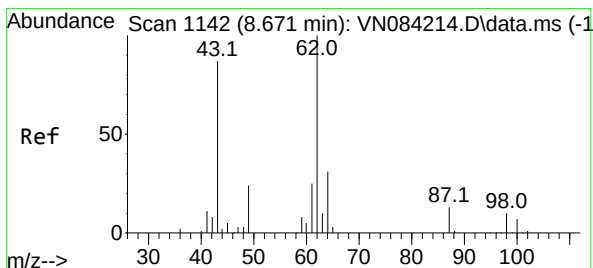
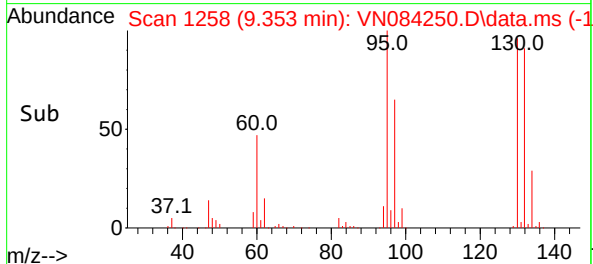
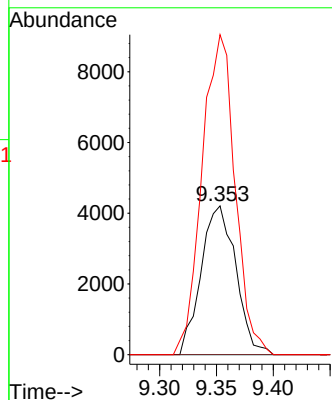
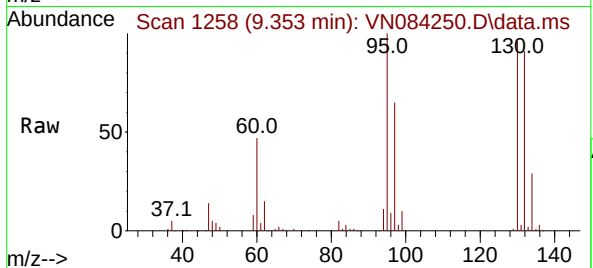
Acq: 01 Oct 2024 19:30

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 83	Resp: 8964
Ion Ratio	Lower Upper
83 100	
55 0.0	62.8 94.2#
98 215.1	38.8 58.2#



#42

1,2-Dichloroethane

Concen: 0.350 ug/l

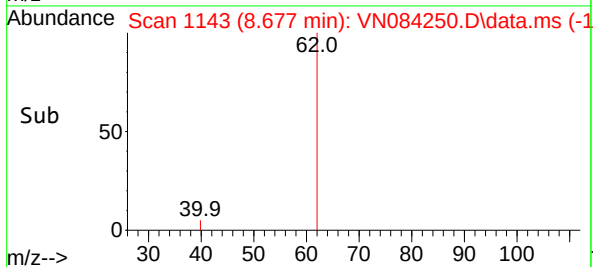
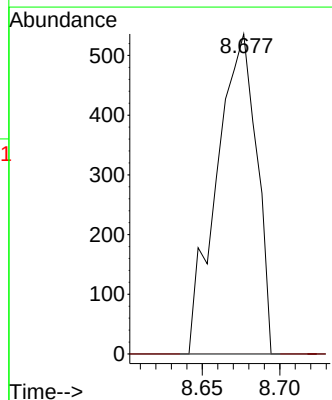
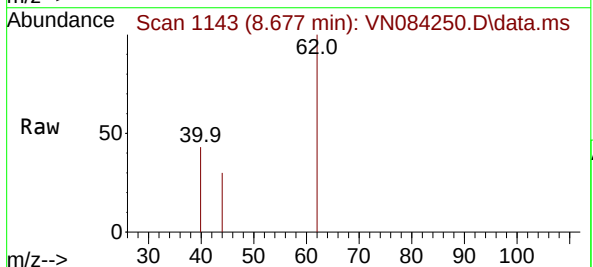
RT: 8.677 min Scan# 1143

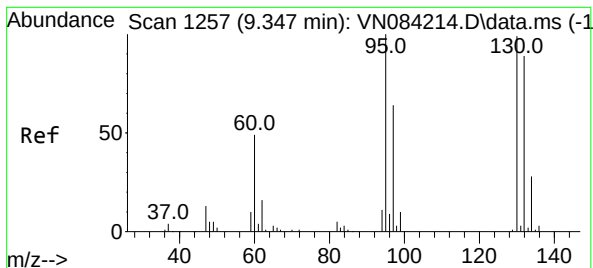
Delta R.T. 0.006 min

Lab File: VN084250.D

Acq: 01 Oct 2024 19:30

Tgt Ion: 62	Resp: 961
Ion Ratio	Lower Upper
62 100	
98 0.0	0.0 18.2





#44

Trichloroethene

Concen: 358.080 ug/l

RT: 9.353 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN084250.D

Acq: 01 Oct 2024 19:30

Instrument :

MSVOA_N

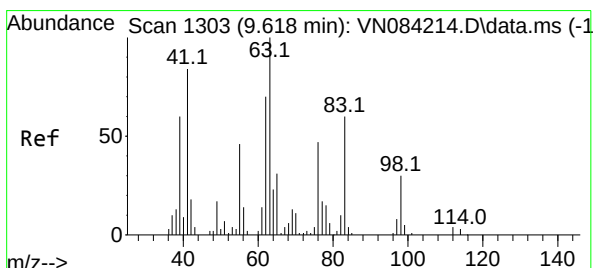
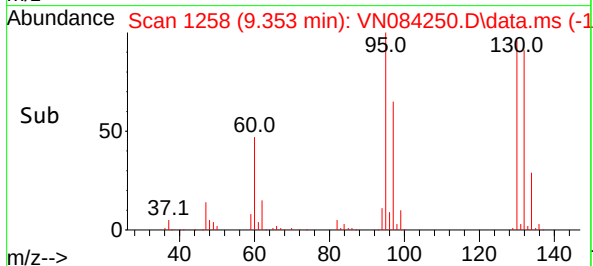
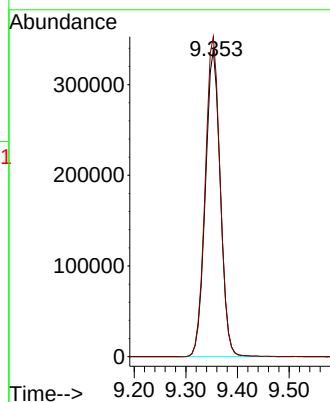
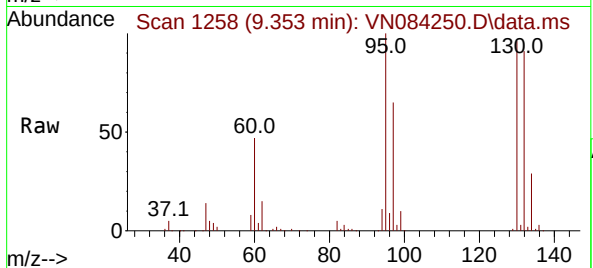
ClientSampleId :

Tgt Ion:130 Resp: 677983

Ion Ratio Lower Upper

130 100

95 104.4 0.0 203.0



#45

1,2-Dichloropropane

Concen: 1.047 ug/l

RT: 9.341 min Scan# 1256

Delta R.T. -0.276 min

Lab File: VN084250.D

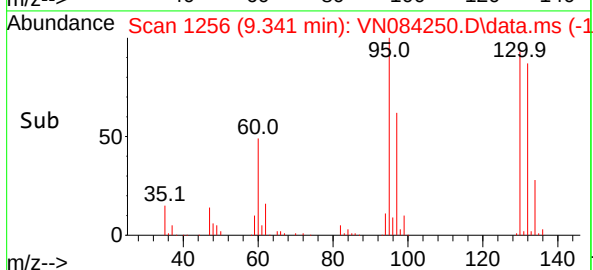
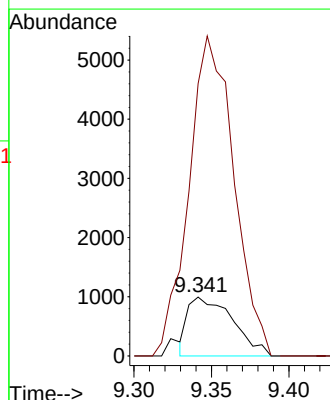
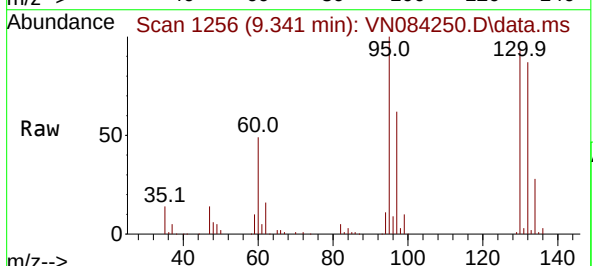
Acq: 01 Oct 2024 19:30

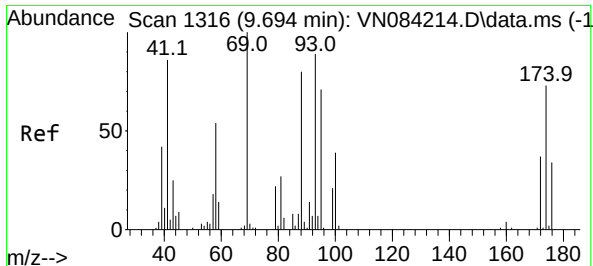
Tgt Ion: 63 Resp: 2008

Ion Ratio Lower Upper

63 100

65 463.0 24.6 37.0#





#49

1,4-Dioxane

Concen: 11.301 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

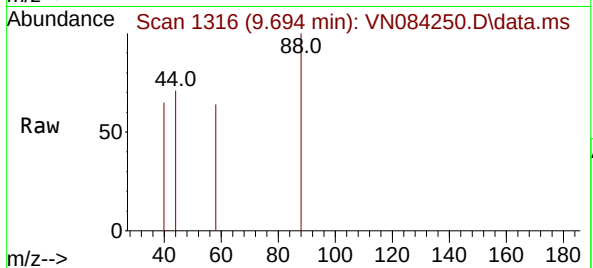
Lab File: VN084250.D

Acq: 01 Oct 2024 19:30

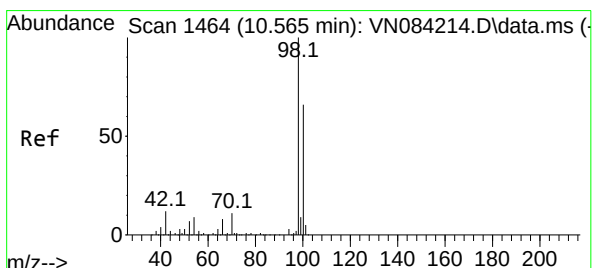
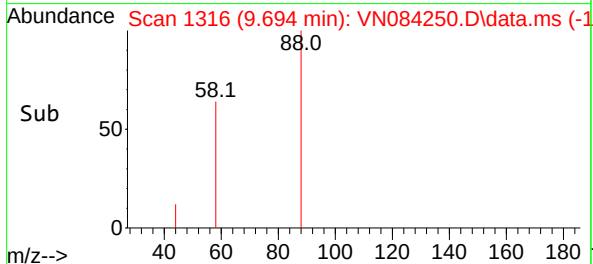
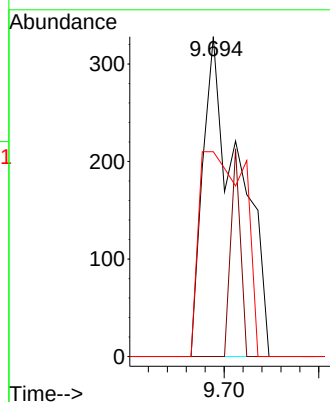
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	88	Resp:	433
Ion	Ratio	Lower	Upper
88	100		
43	17.3	25.3	37.9#
58	80.6	56.4	84.6



#50

Toluene-d8

Concen: 50.965 ug/l

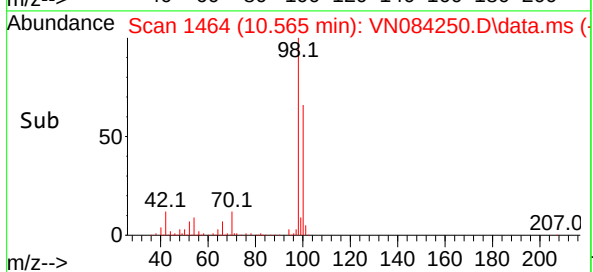
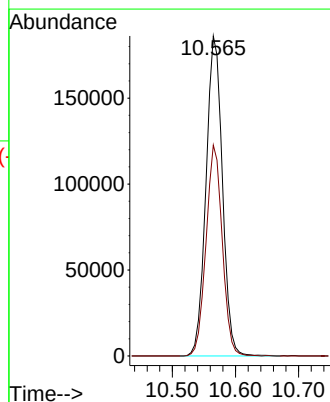
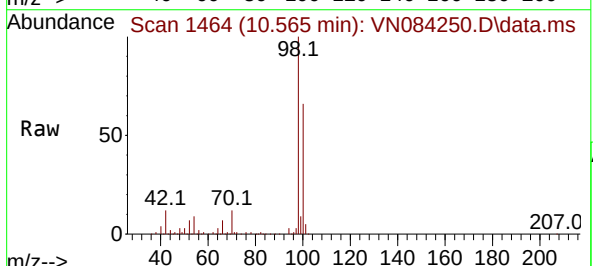
RT: 10.565 min Scan# 1464

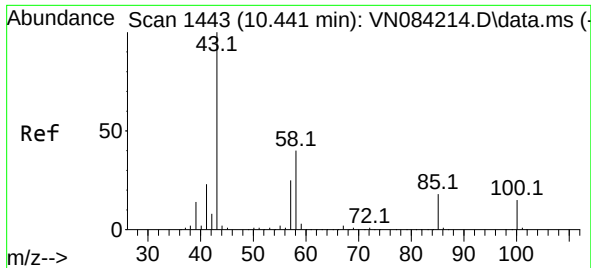
Delta R.T. 0.000 min

Lab File: VN084250.D

Acq: 01 Oct 2024 19:30

Tgt Ion:	98	Resp:	335877
Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.7	79.1

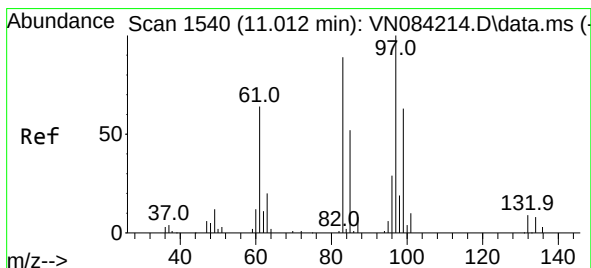
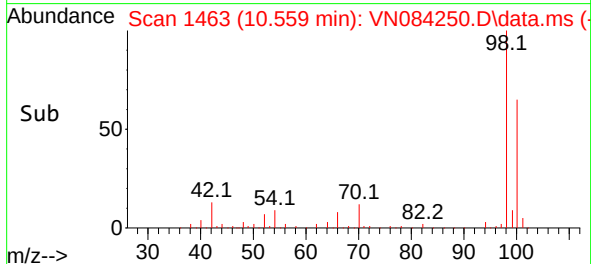
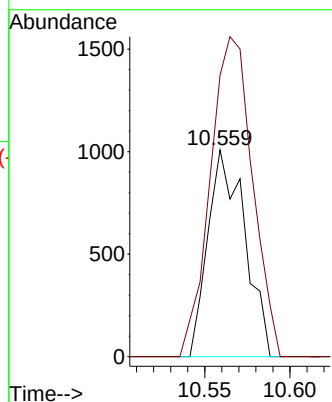
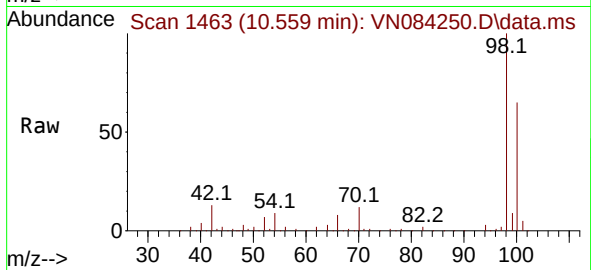




#51
4-Methyl-2-Pentanone
Concen: 0.596 ug/l
RT: 10.559 min Scan# 1443
Delta R.T. 0.118 min
Lab File: VN084250.D
Acq: 01 Oct 2024 19:30

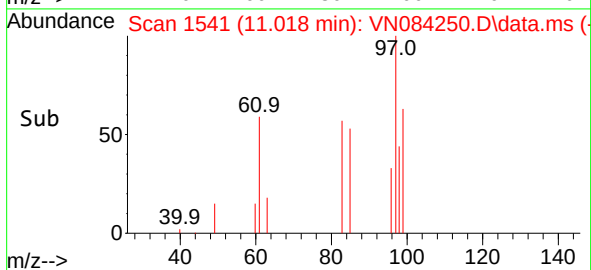
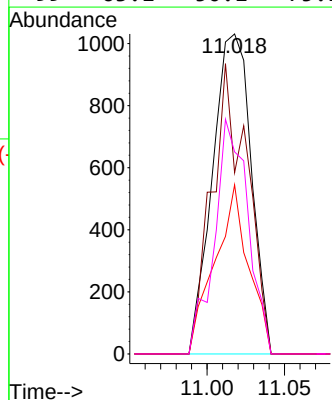
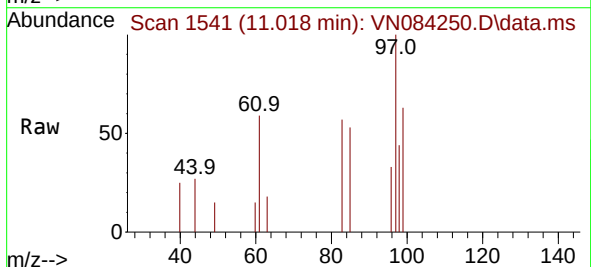
Instrument :
MSVOA_N
ClientSampleId :

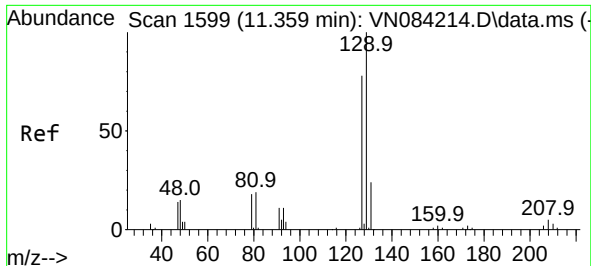
Tgt Ion: 43 Resp: 1514
Ion Ratio Lower Upper
43 100
58 177.7 31.6 47.4#



#55
1,1,2-Trichloroethane
Concen: 1.011 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.006 min
Lab File: VN084250.D
Acq: 01 Oct 2024 19:30

Tgt Ion: 97 Resp: 1792
Ion Ratio Lower Upper
97 100
83 56.6 71.0 106.4#
85 52.9 41.7 62.5
99 63.1 50.1 75.1

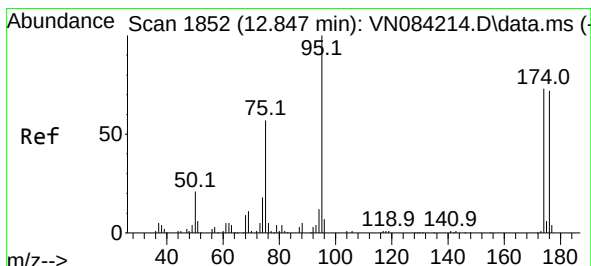
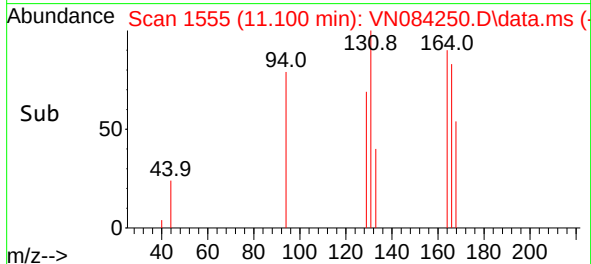
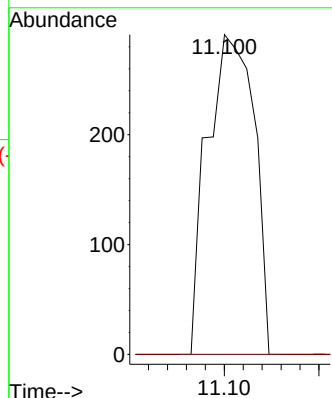
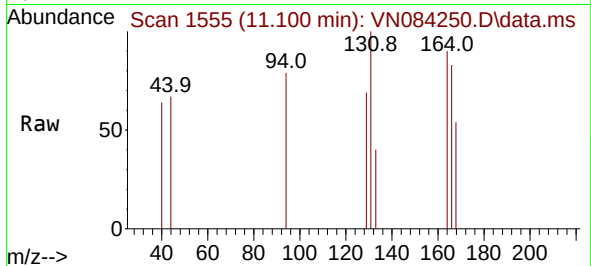




#60
Dibromochloromethane
Concen: 0.240 ug/l
RT: 11.100 min Scan# 11
Delta R.T. -0.259 min
Lab File: VN084250.D
Acq: 01 Oct 2024 19:30

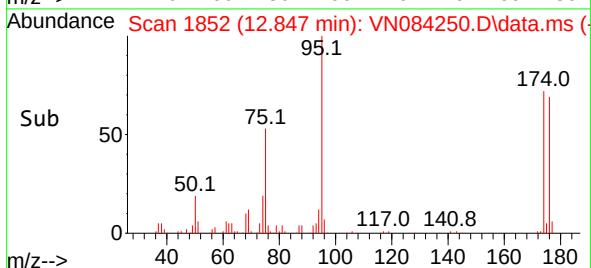
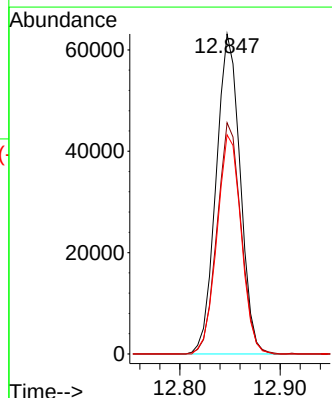
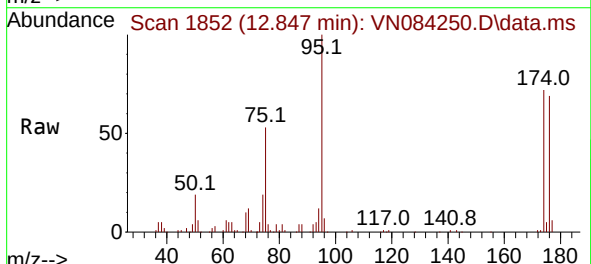
Instrument :
MSVOA_N
ClientSampleId :

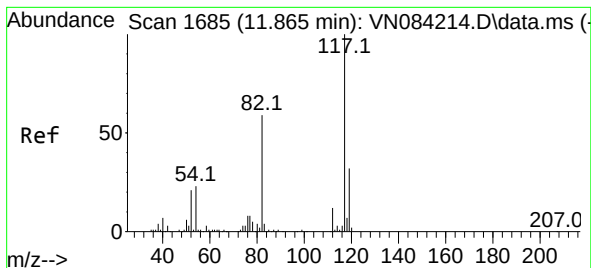
Tgt Ion:129 Resp: 502
Ion Ratio Lower Upper
129 100
127 0.0 38.3 114.9#



#62
4-Bromofluorobenzene
Concen: 43.807 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084250.D
Acq: 01 Oct 2024 19:30

Tgt Ion: 95 Resp: 105177
Ion Ratio Lower Upper
95 100
174 72.2 0.0 145.2
176 68.9 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: VN084250.D

Acq: 01 Oct 2024 19:30

Instrument :

MSVOA_N

ClientSampleId :

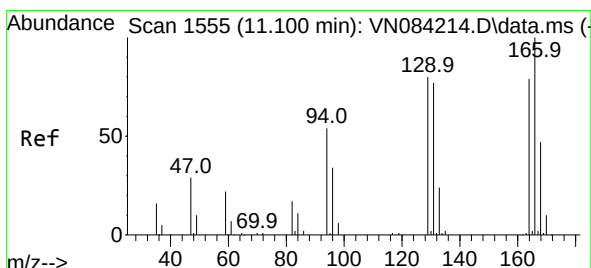
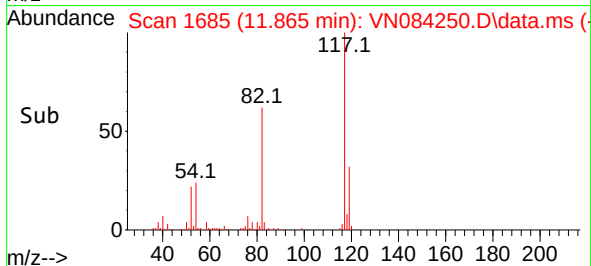
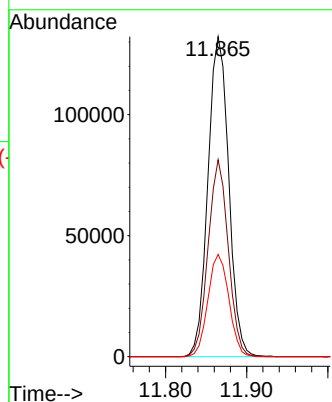
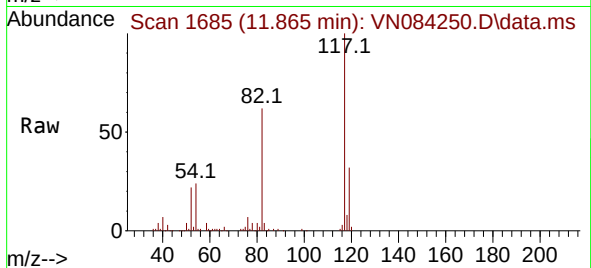
Tgt Ion:117 Resp: 235238

Ion Ratio Lower Upper

117 100

82 61.6 47.2 70.8

119 32.0 25.4 38.0



#64

Tetrachloroethene

Concen: 0.295 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN084250.D

Acq: 01 Oct 2024 19:30

Tgt Ion:164 Resp: 484

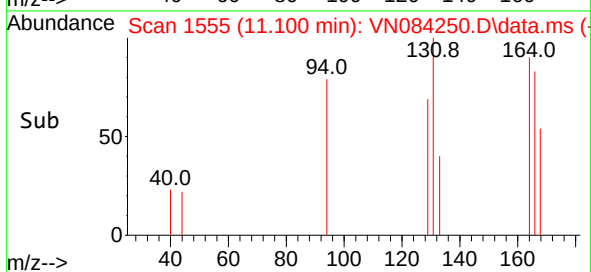
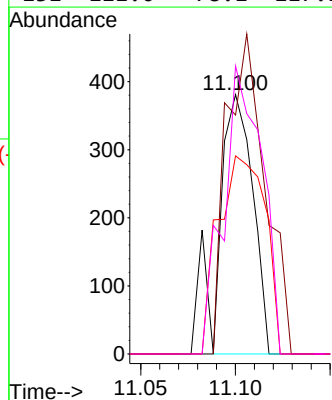
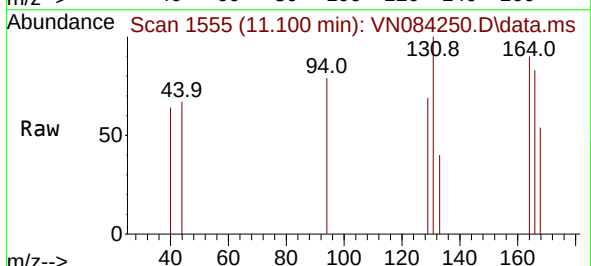
Ion Ratio Lower Upper

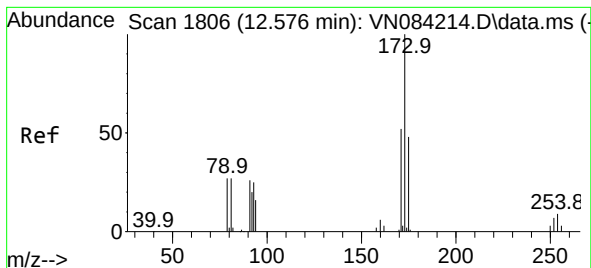
164 100

166 92.1 101.0 151.4#

129 76.4 80.8 121.2#

131 111.0 78.1 117.1





#71

Bromoform

Concen: 0.454 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.271 min

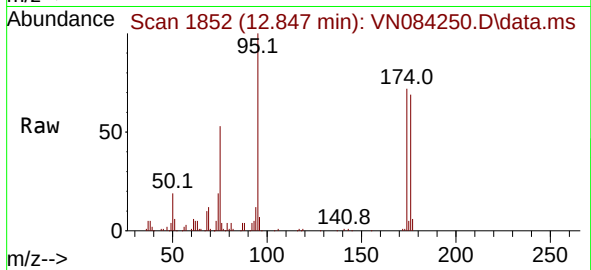
Lab File: VN084250.D

Acq: 01 Oct 2024 19:30

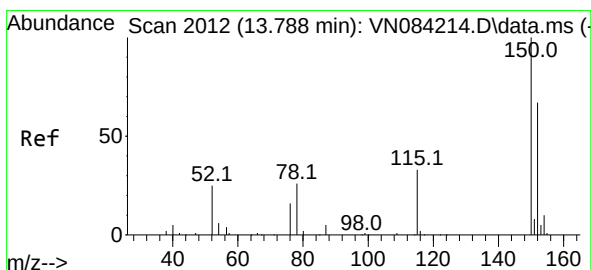
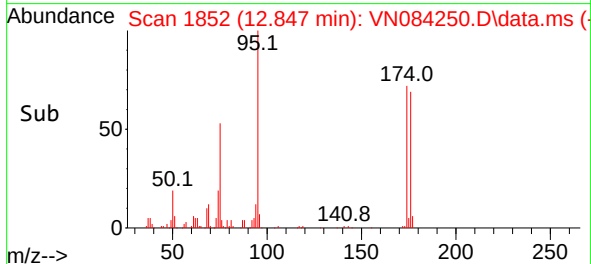
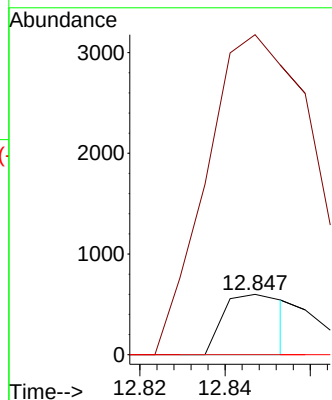
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	173	Resp:	600
Ion Ratio	Lower	Upper	
173	100		
175	677.0	23.5	70.6#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

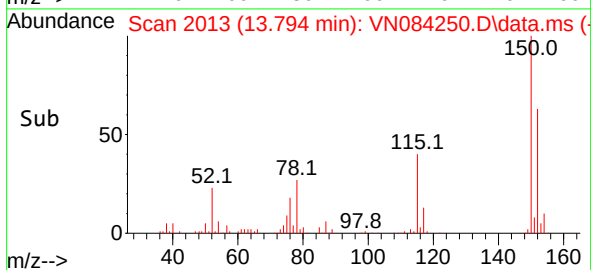
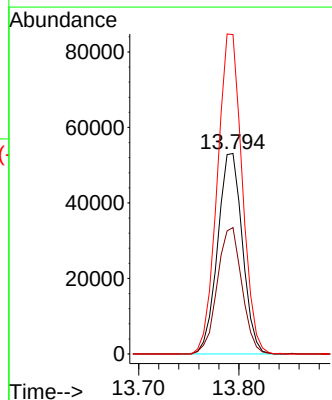
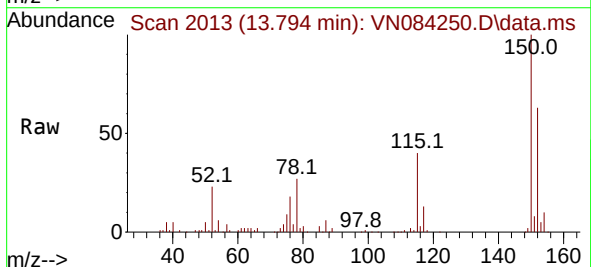
RT: 13.794 min Scan# 2013

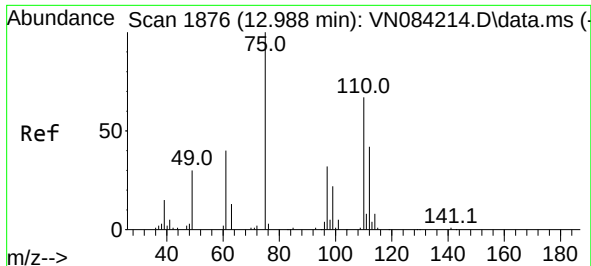
Delta R.T. 0.006 min

Lab File: VN084250.D

Acq: 01 Oct 2024 19:30

Tgt Ion:	152	Resp:	90995
Ion Ratio	Lower	Upper	
152	100		
115	62.7	31.3	93.9
150	160.2	0.0	349.8

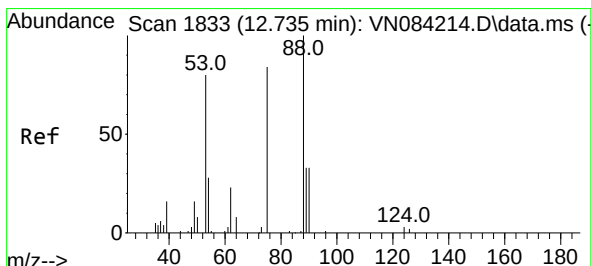
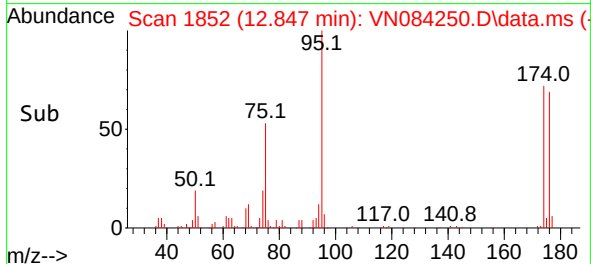
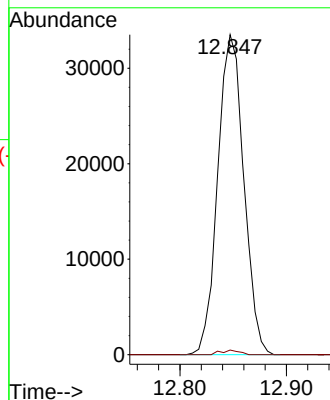
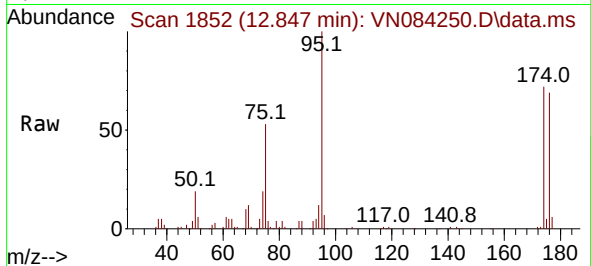




#76
1,2,3-Trichloropropane
Concen: 30.625 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084250.D
Acq: 01 Oct 2024 19:30

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 56891
Ion Ratio Lower Upper
75 100
77 1.0 96.9 290.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.421 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084250.D
Acq: 01 Oct 2024 19:30

Tgt Ion: 75 Resp: 56891
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 35.5 53.3#

