

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121420\
 Data File : VN065100.D
 Acq On : 14 Dec 2020 15:09
 Operator : JC/MD
 Sample : L4992-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 15 05:49:15 2020
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121420W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 15 05:41:47 2020
 Response via : Initial Calibration

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

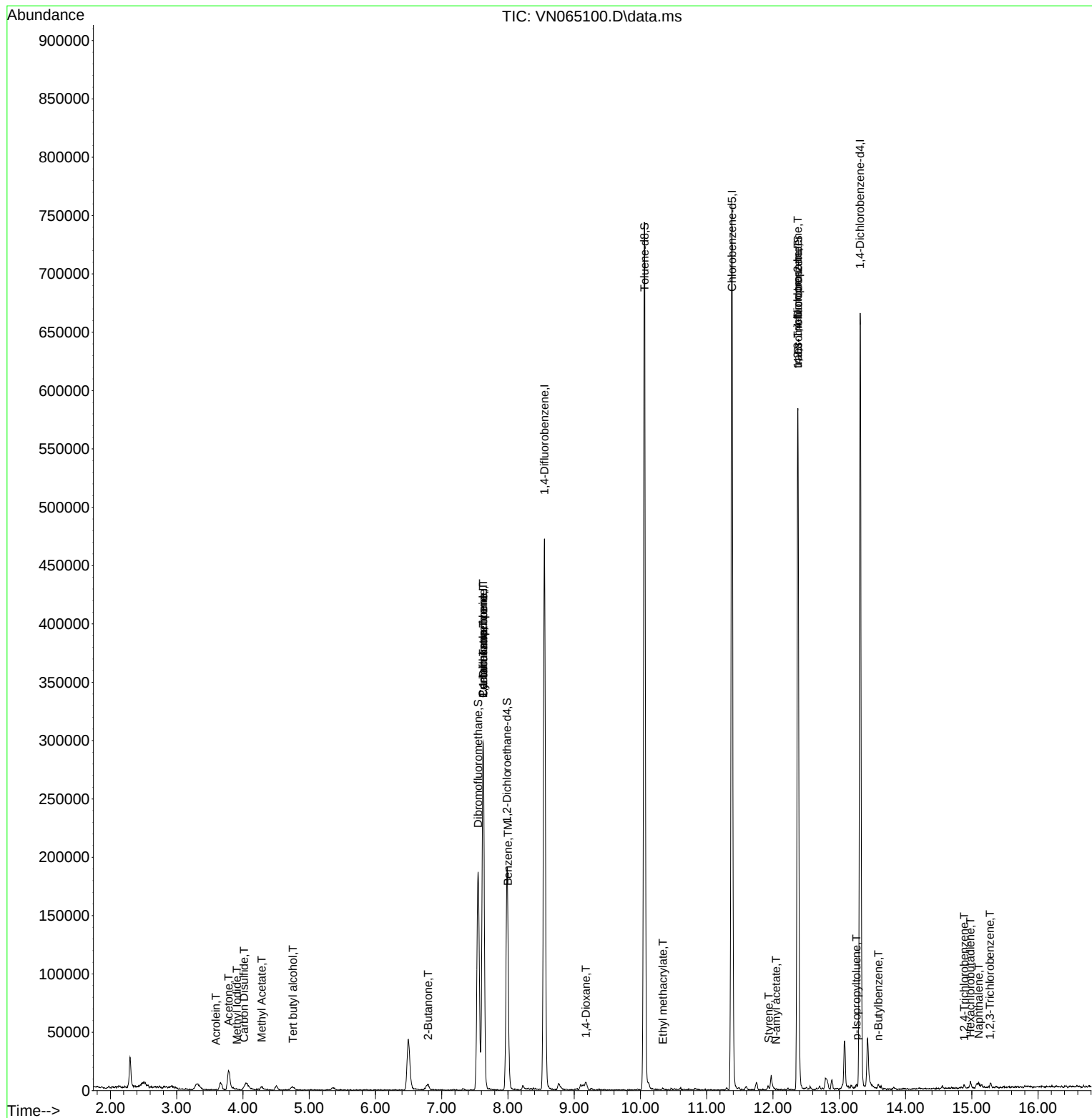
Internal Standards						
1) Pentafluorobenzene	7.624	168	251620	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.550	114	423182	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.380	117	432046	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.315	152	188512	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.987	65	161254	55.74	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 111.48%			
35) Dibromofluoromethane	7.550	113	142514	48.45	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 96.90%			
50) Toluene-d8	10.061	98	513336	49.35	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 98.70%			
62) 4-Bromofluorobenzene	12.376	95	190754	53.25	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 106.50%			
Target Compounds					Qvalue	
3) Chloromethane	2.033	50	452	Below Cal	#	41
5) Bromomethane	2.541	94	466	Below Cal		88
10) Methyl Iodide	3.910	142	1242	4.27 ug/l	#	57
11) Tert butyl alcohol	4.756	59	4794	15.55 ug/l	#	80
13) Acrolein	3.592	56	60	0.43 ug/l	#	1
16) Acetone	3.782	43	29692	27.56 ug/l		92
17) Carbon Disulfide	4.016	76	1300	0.20 ug/l	#	75
18) Methyl Acetate	4.283	43	1380	0.59 ug/l	#	77
20) Methylene Chloride	4.499	84	1072	Below Cal		97
25) 2-Butanone	6.795	43	3749	2.72 ug/l	#	87
31) Cyclohexane	7.624	56	4986	1.27 ug/l	#	8
36) 1,1-Dichloropropene	7.624	75	18744	4.64 ug/l	#	49
38) Carbon Tetrachloride	7.624	117	25339	5.43 ug/l	#	16
40) Benzene	8.000	78	3708	0.31 ug/l		95
49) 1,4-Dioxane	9.177	88	4713	116.14 ug/l	#	79
56) Ethyl methacrylate	10.338	69	96	1.79 ug/l	#	1
70) Styrene	11.936	104	680	1.44 ug/l	#	81
74) N-amyl acetate	12.048	43	914	0.21 ug/l	#	58
76) 1,2,3-Trichloropropane	12.373	75	101555	30.02 ug/l	#	100
81) trans-1,4-Dichloro-2-b...	12.373	75	101555	83.54 ug/l	#	15
86) p-Isopropyltoluene	13.260	119	1542	1.19 ug/l		89
89) n-Butylbenzene	13.592	91	2142	0.23 ug/l		81
93) 1,2,4-Trichlorobenzene	14.887	180	1280	4.05 ug/l	#	84
94) Hexachlorobutadiene	14.981	225	993	0.48 ug/l	#	74
95) Naphthalene	15.106	128	4285	4.63 ug/l	#	75
96) 1,2,3-Trichlorobenzene	15.276	180	725	4.21 ug/l	#	8

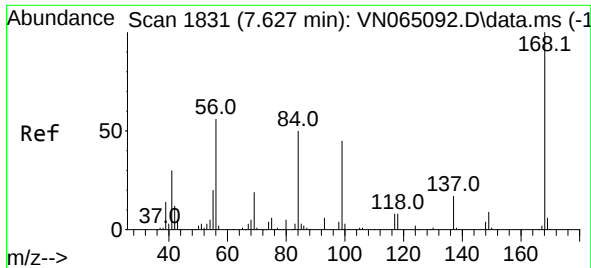
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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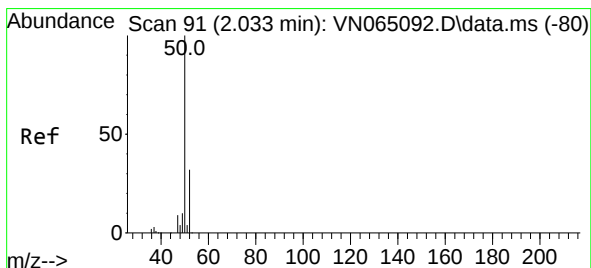
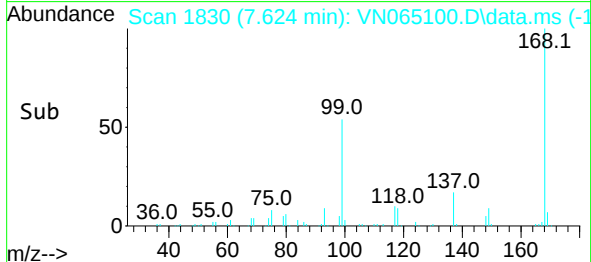
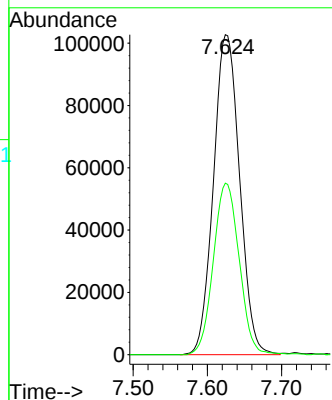
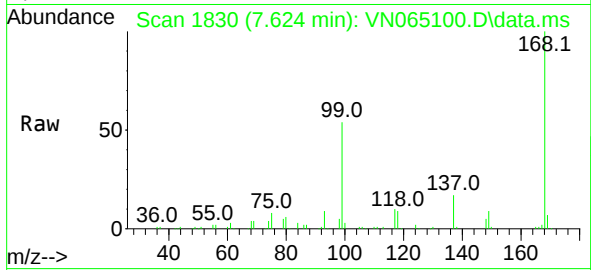




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.624 min Scan# 1830
Delta R.T. -0.003 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

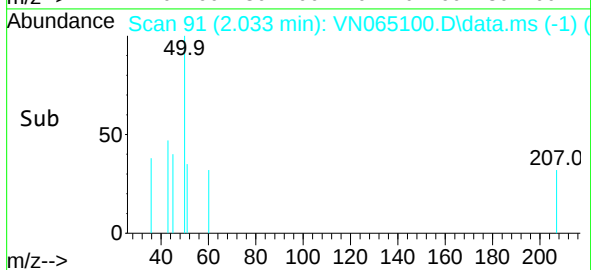
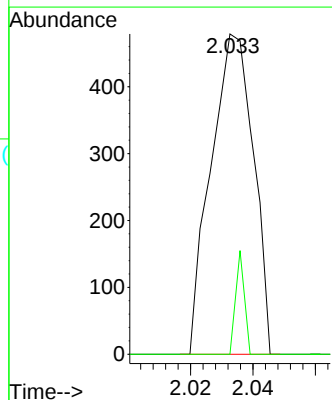
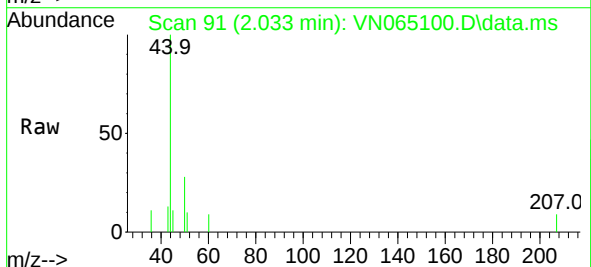
Instrument :
MSVOA_N
ClientSampled :

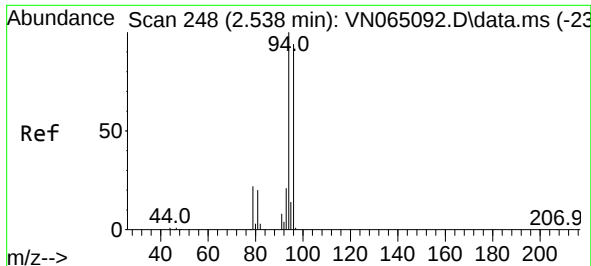
Tgt Ion:168 Resp: 251620
Ion Ratio Lower Upper
168 100
99 53.6 43.0 64.4



#3
Chloromethane
Concen: Below Cal
RT: 2.033 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

Tgt Ion: 50 Resp: 452
Ion Ratio Lower Upper
50 100
52 0.0 26.6 39.8#

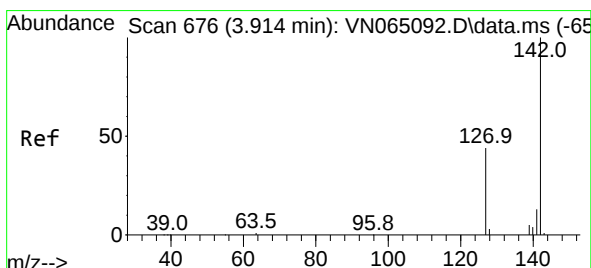
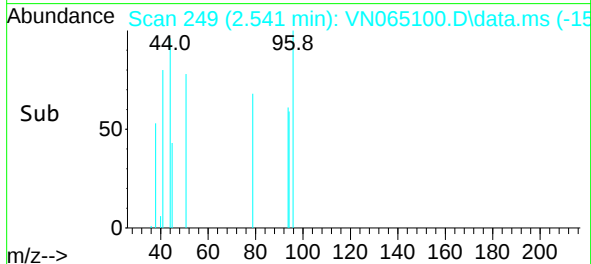
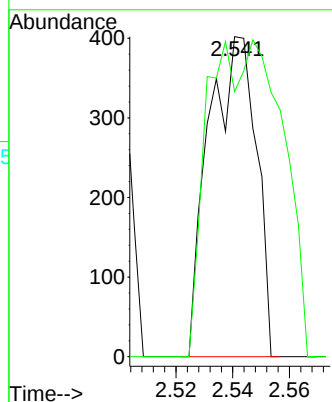
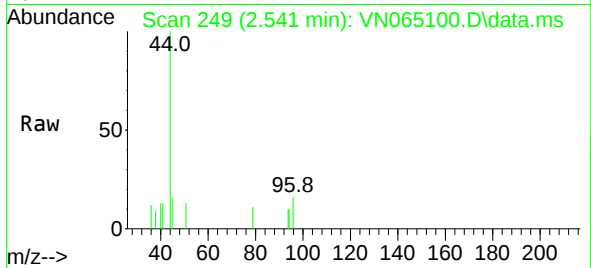




#5
Bromomethane
Concen: Below Cal
RT: 2.541 min Scan# 249
Delta R.T. 0.003 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

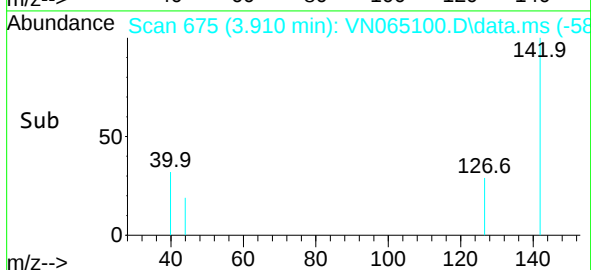
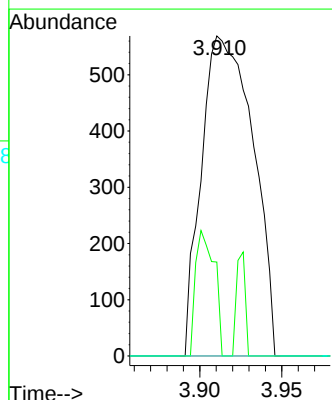
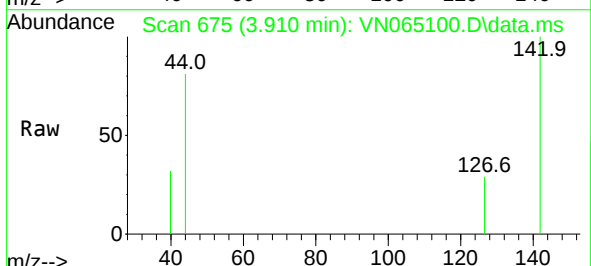
Instrument :
MSVOA_N
ClientSampled :

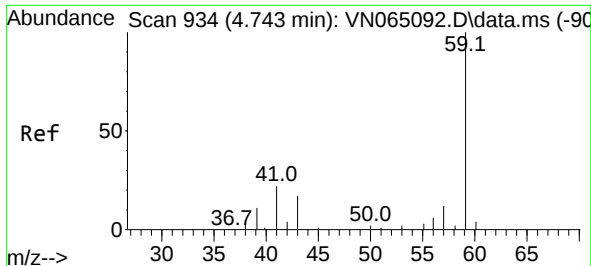
Tgt Ion: 94 Resp: 466
Ion Ratio Lower Upper
94 100
96 82.8 75.4 113.0



#10
Methyl Iodide
Concen: 4.27 ug/l
RT: 3.910 min Scan# 675
Delta R.T. -0.004 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

Tgt Ion:142 Resp: 1242
Ion Ratio Lower Upper
142 100
127 14.3 35.0 52.6#
141 0.0 11.8 17.6#



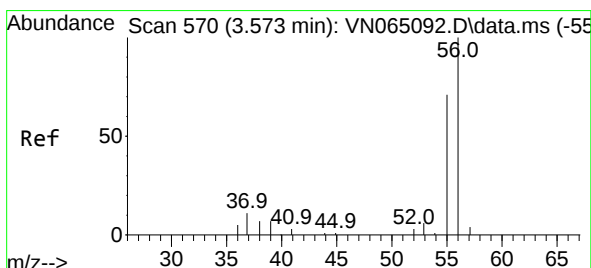
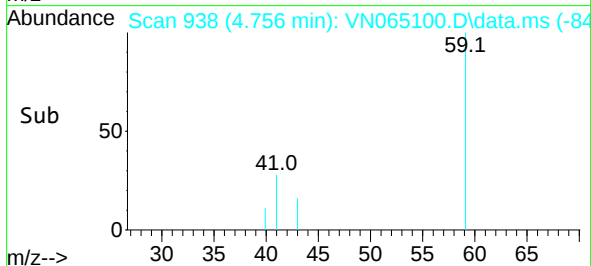
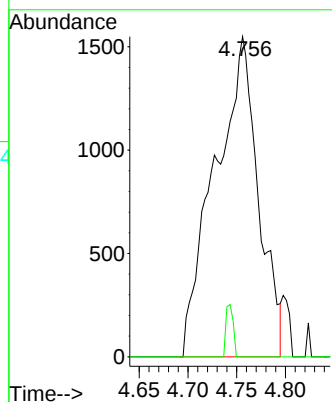
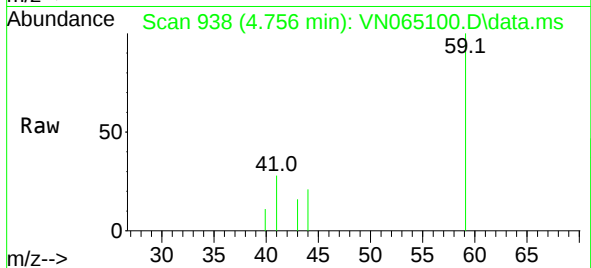


#11

Tert butyl alcohol
Concen: 15.55 ug/l
RT: 4.756 min Scan# 938
Delta R.T. 0.013 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

Instrument :
MSVOA_N
ClientSampled :

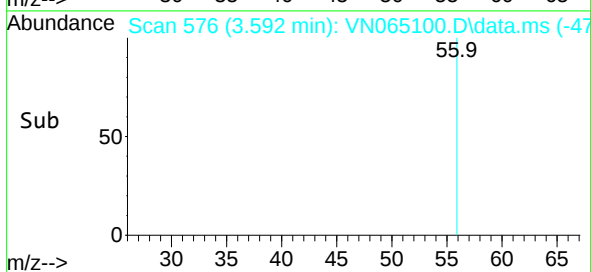
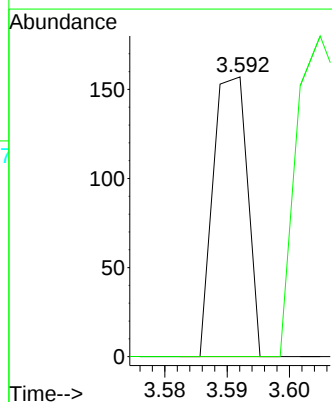
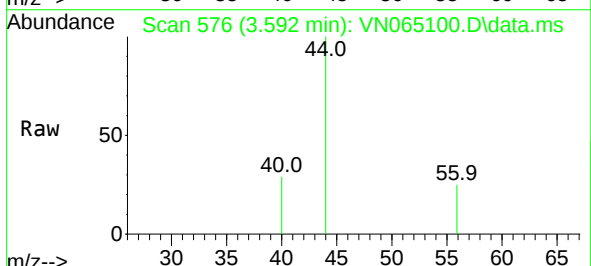
Tgt Ion: 59 Resp: 4794
Ion Ratio Lower Upper
59 100
57 2.7 7.9 11.9#

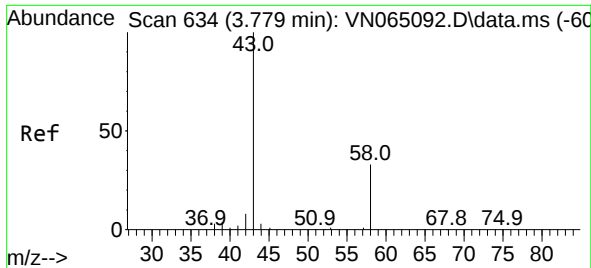


#13

Acrolein
Concen: 0.43 ug/l
RT: 3.592 min Scan# 576
Delta R.T. 0.019 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

Tgt Ion: 56 Resp: 60
Ion Ratio Lower Upper
56 100
55 156.7 56.5 84.7#

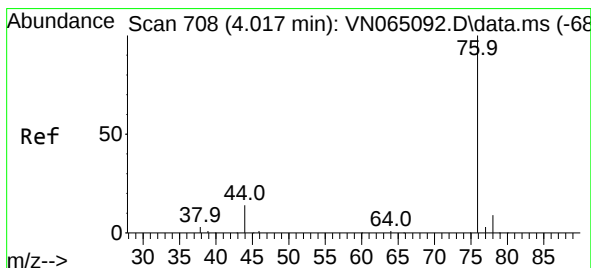
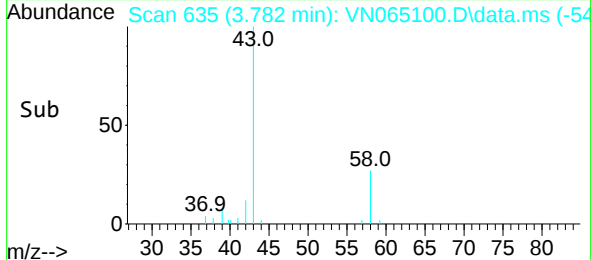
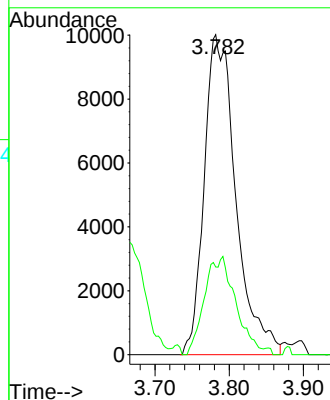
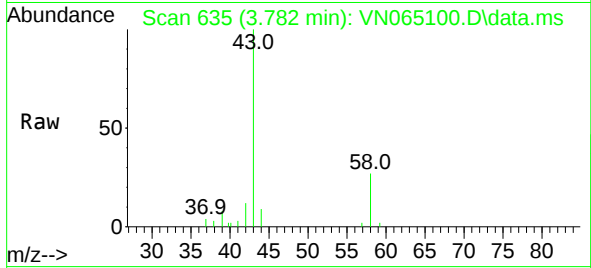




#16
Acetone
Concen: 27.56 ug/l
RT: 3.782 min Scan# 635
Delta R.T. 0.003 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

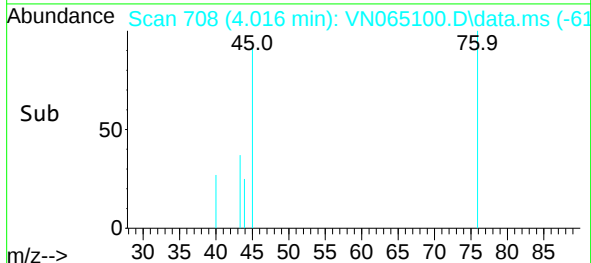
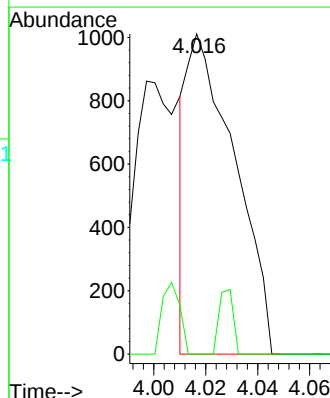
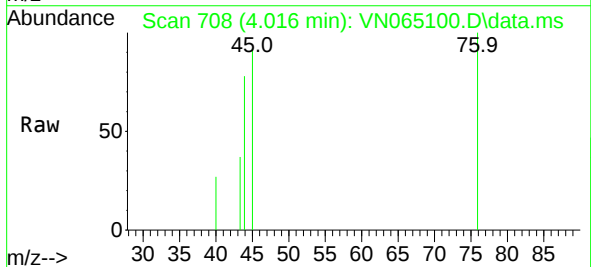
Instrument :
MSVOA_N
ClientSampled :

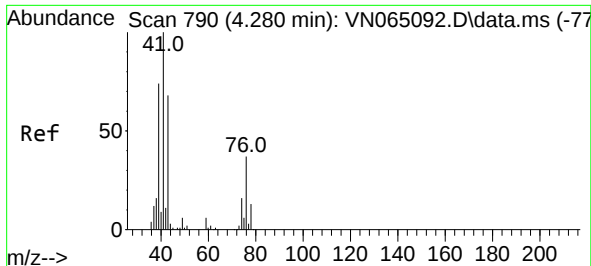
Tgt Ion: 43 Resp: 29692
Ion Ratio Lower Upper
43 100
58 27.4 25.7 38.5



#17
Carbon Disulfide
Concen: 0.20 ug/l
RT: 4.016 min Scan# 708
Delta R.T. -0.001 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

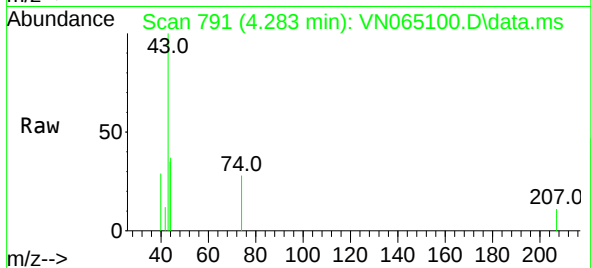
Tgt Ion: 76 Resp: 1300
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



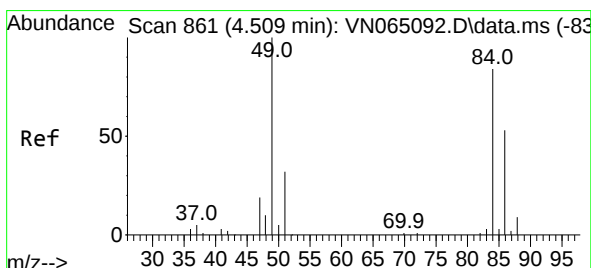
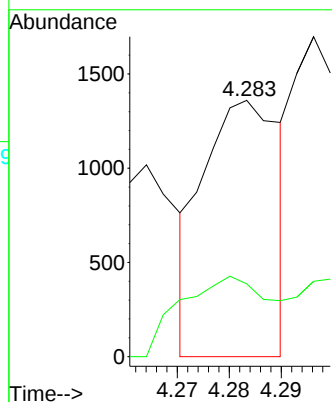
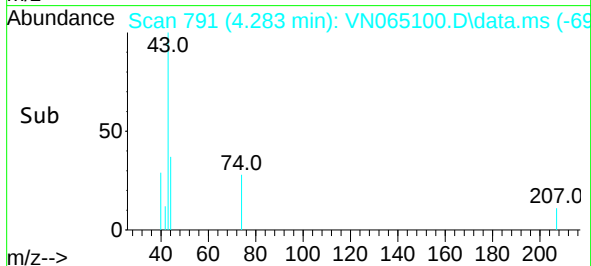


#18
Methyl Acetate
Concen: 0.59 ug/l
RT: 4.283 min Scan# 791
Delta R.T. 0.003 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

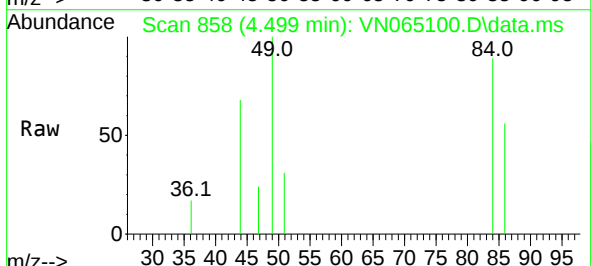
Instrument :
MSVOA_N
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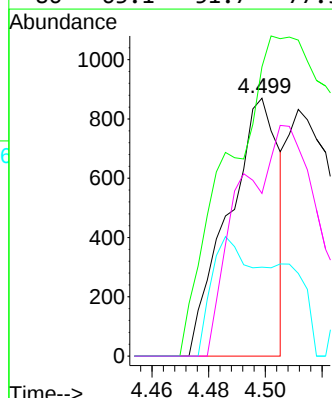
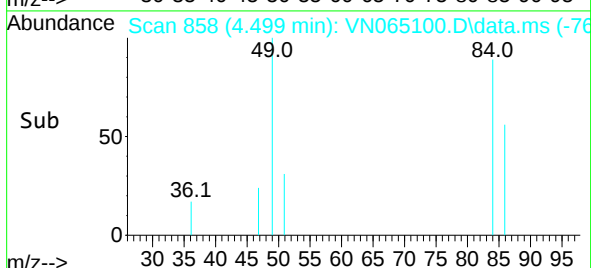
Tgt Ion: 43 Resp: 1380
Ion Ratio Lower Upper
43 100
74 36.8 20.2 30.2#

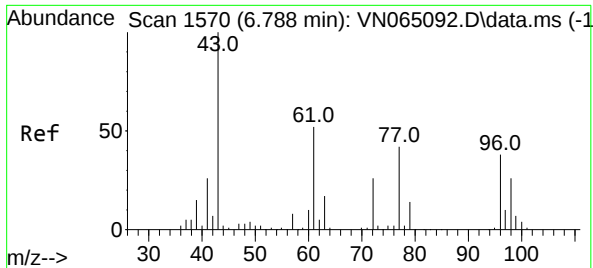


#20
Methylene Chloride
Concen: Below Cal
RT: 4.499 min Scan# 858
Delta R.T. -0.010 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09



Tgt Ion: 84 Resp: 1072
Ion Ratio Lower Upper
84 100
49 112.2 93.4 140.0
51 34.5 28.2 42.4
86 63.1 51.7 77.5





#25

2-Butanone

Concen: 2.72 ug/l

RT: 6.795 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN065100.D

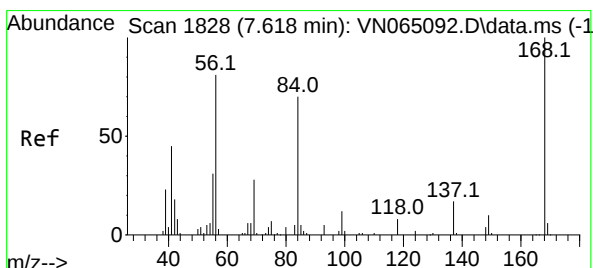
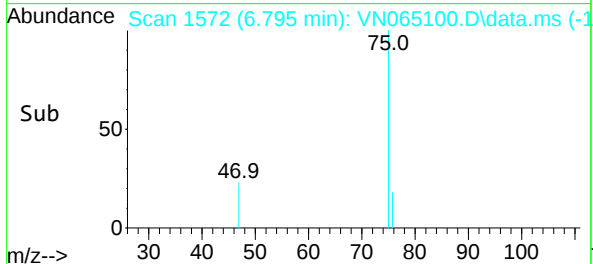
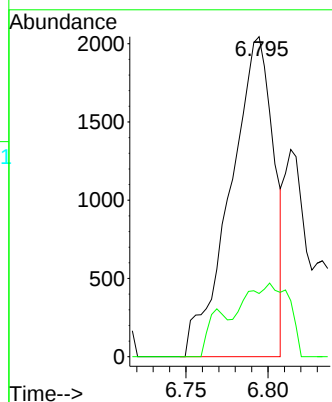
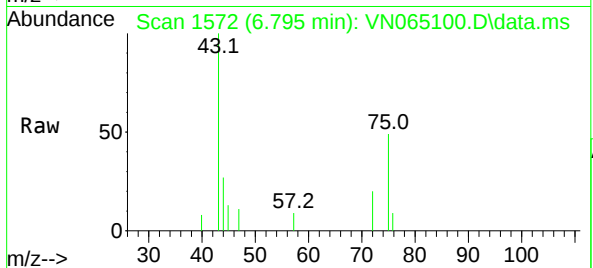
Acq: 14 Dec 2020 15:09

Tgt Ion: 43 Resp: 3749

Ion Ratio Lower Upper

43 100

72 19.8 21.0 31.6#



#31

Cyclohexane

Concen: 1.27 ug/l

RT: 7.624 min Scan# 1830

Delta R.T. 0.006 min

Lab File: VN065100.D

Acq: 14 Dec 2020 15:09

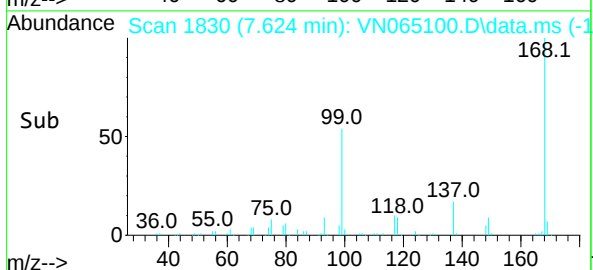
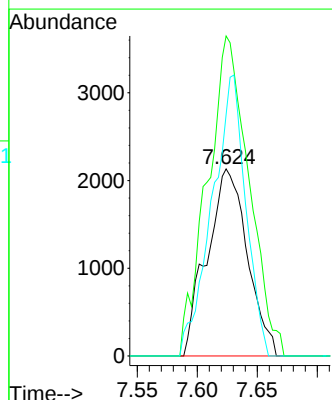
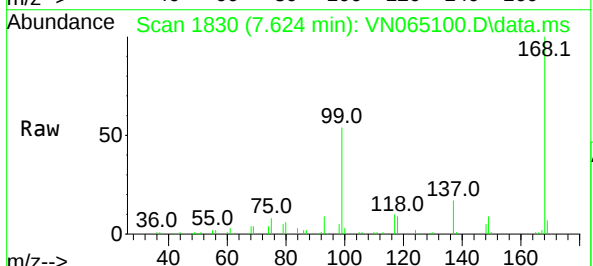
Tgt Ion: 56 Resp: 4986

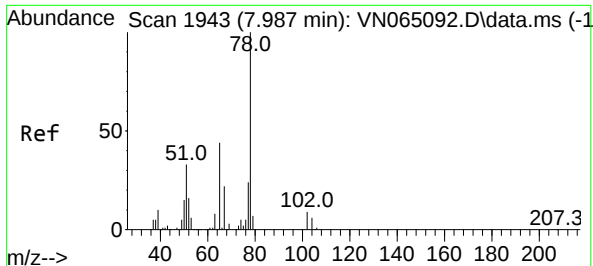
Ion Ratio Lower Upper

56 100

69 171.0 27.5 41.3#

84 129.0 73.9 110.9#

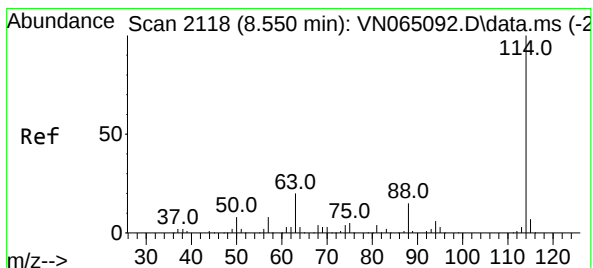
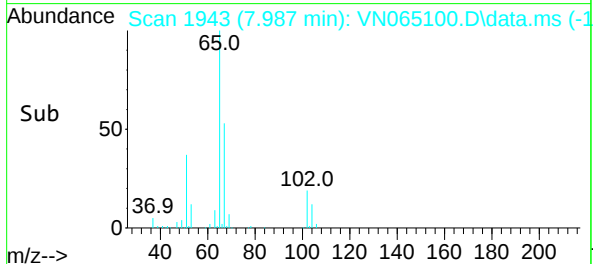
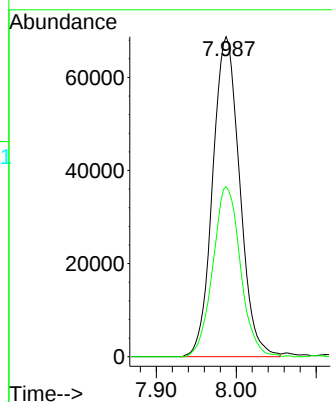
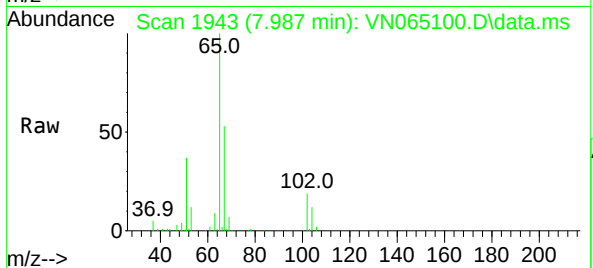




#33
1,2-Dichloroethane-d4
Concen: 55.74 ug/l
RT: 7.987 min Scan# 1943
Delta R.T. 0.000 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

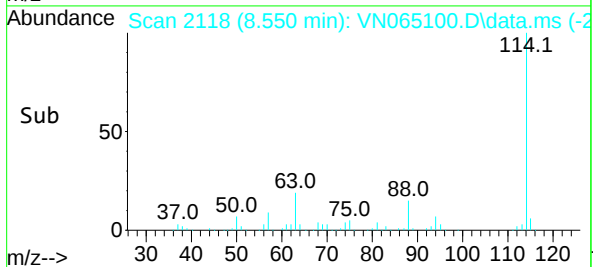
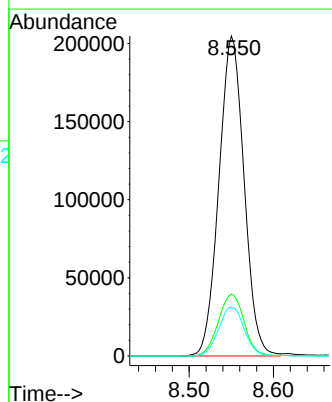
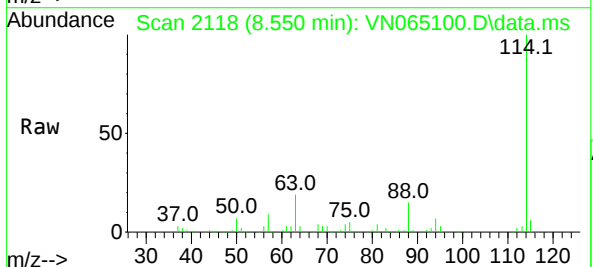
Instrument :
MSVOA_N
ClientSampled :

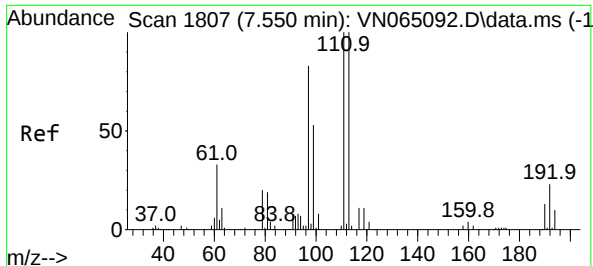
Tgt Ion: 65 Resp: 161254
Ion Ratio Lower Upper
65 100
67 54.2 0.0 108.2



#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.550 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

Tgt Ion: 114 Resp: 423182
Ion Ratio Lower Upper
114 100
63 19.3 0.0 38.6
88 15.1 0.0 32.6

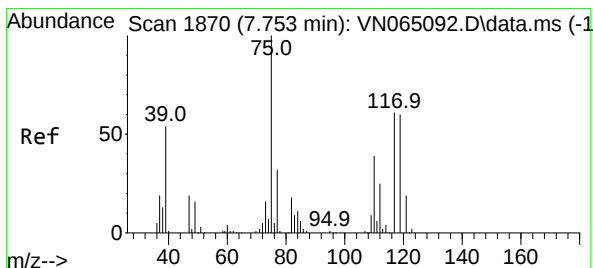
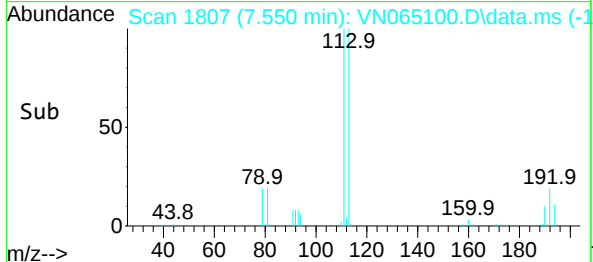
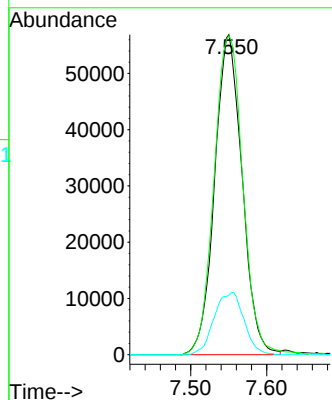
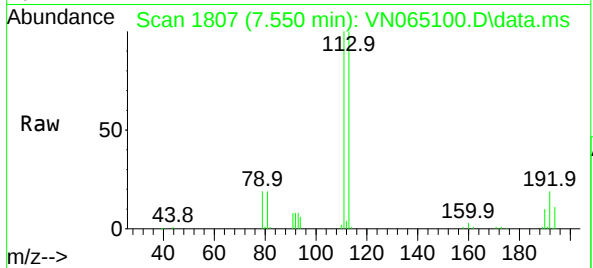




#35
Dibromofluoromethane
Concen: 48.45 ug/l
RT: 7.550 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

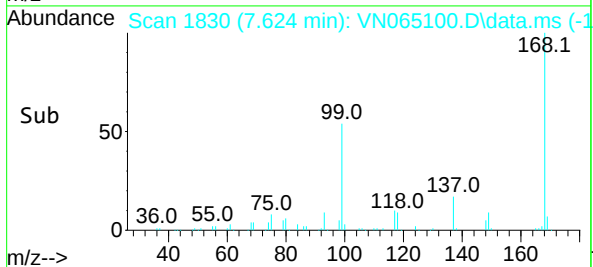
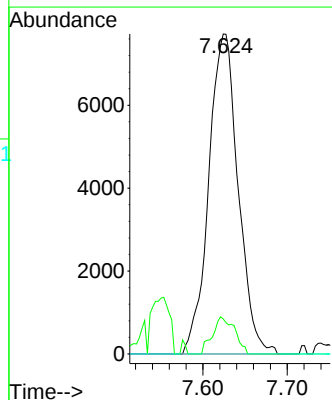
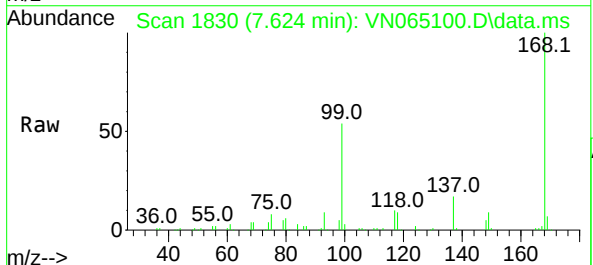
Instrument :
MSVOA_N
ClientSampled :

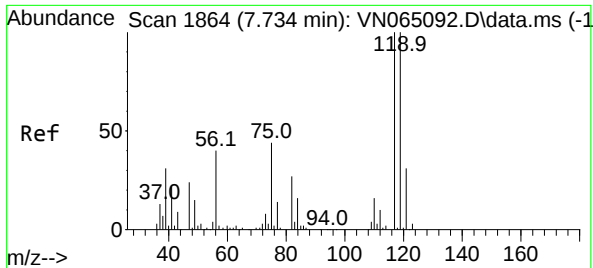
Tgt Ion:113 Resp: 142514
Ion Ratio Lower Upper
113 100
111 104.8 81.6 122.4
192 21.2 16.2 24.2



#36
1,1-Dichloropropene
Concen: 4.64 ug/l
RT: 7.624 min Scan# 1830
Delta R.T. -0.129 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

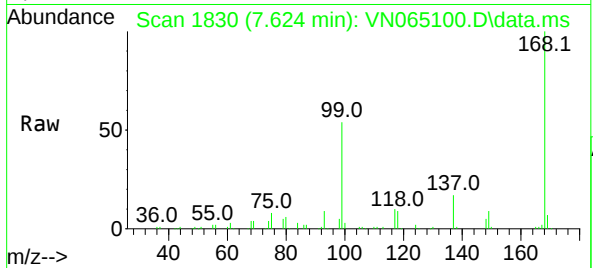
Tgt Ion: 75 Resp: 18744
Ion Ratio Lower Upper
75 100
110 8.7 17.8 53.3#
77 0.0 25.0 37.4#



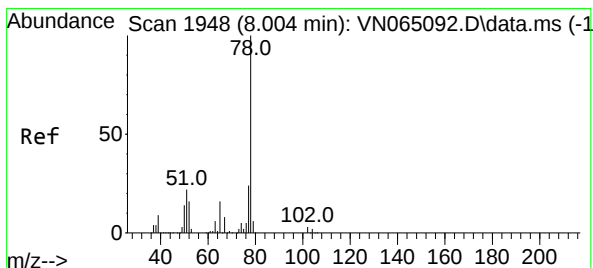
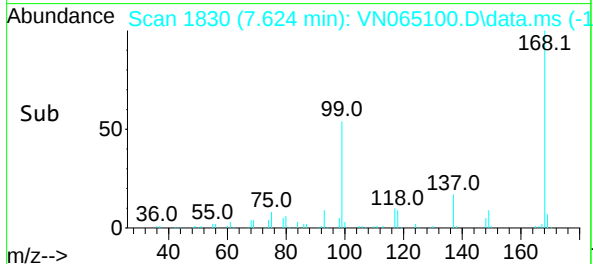
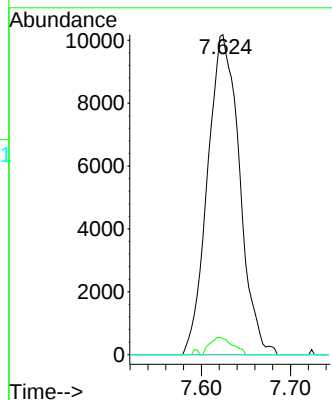


#38
Carbon Tetrachloride
Concen: 5.43 ug/l
RT: 7.624 min Scan# 1830
Delta R.T. -0.110 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

Instrument :
MSVOA_N
ClientSampled :

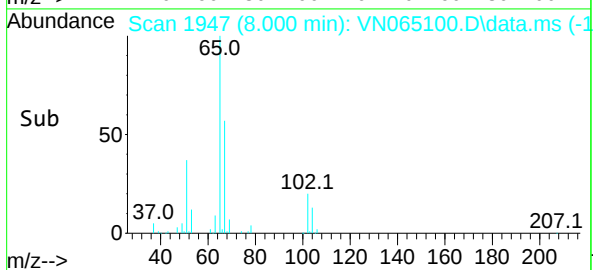
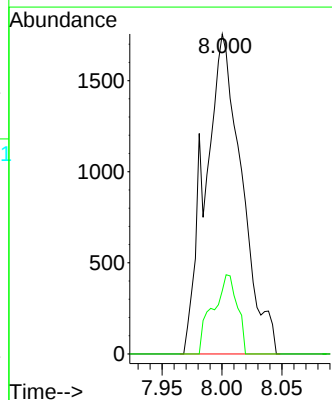
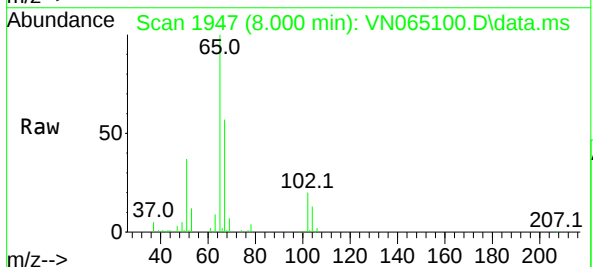


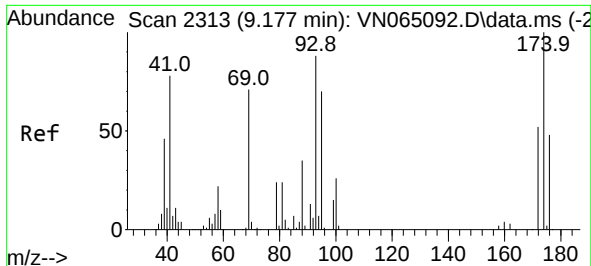
Tgt Ion:117 Resp: 25339
Ion Ratio Lower Upper
117 100
119 4.9 76.7 115.1#
121 0.0 25.4 38.2#



#40
Benzene
Concen: 0.31 ug/l
RT: 8.000 min Scan# 1947
Delta R.T. -0.004 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

Tgt Ion: 78 Resp: 3708
Ion Ratio Lower Upper
78 100
77 19.8 17.9 26.9

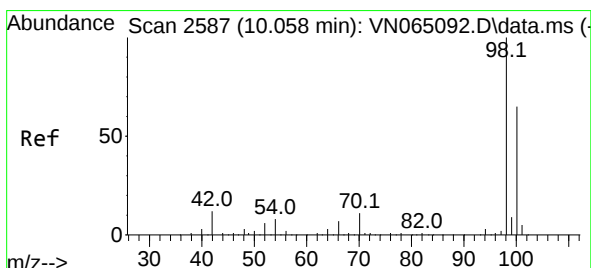
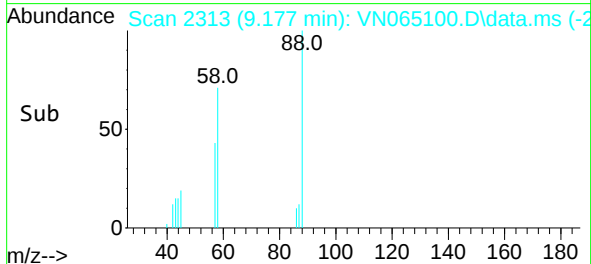
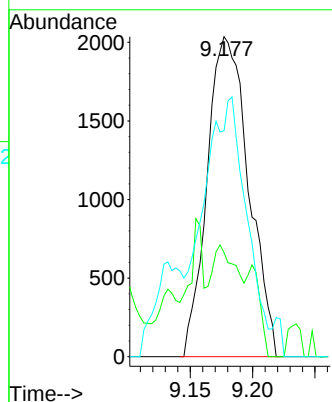
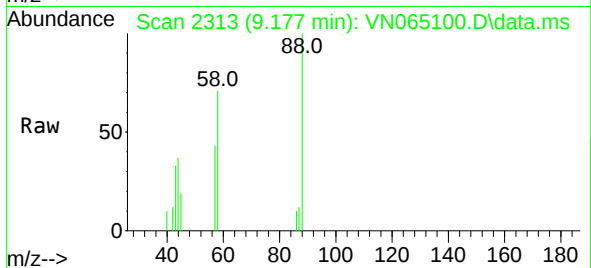




#49
1,4-Dioxane
Concen: 116.14 ug/l
RT: 9.177 min Scan# 2313
Delta R.T. 0.000 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

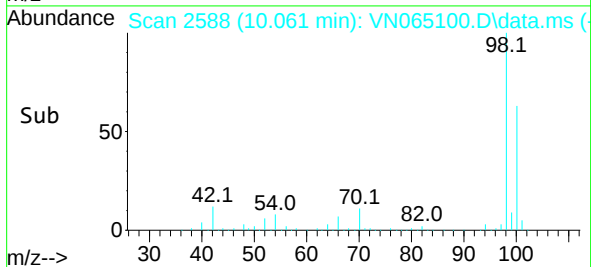
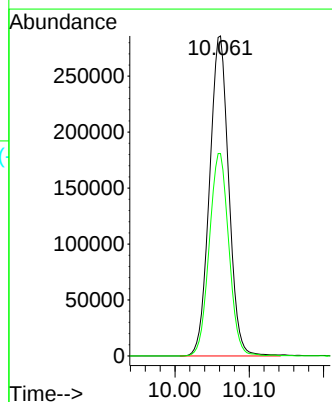
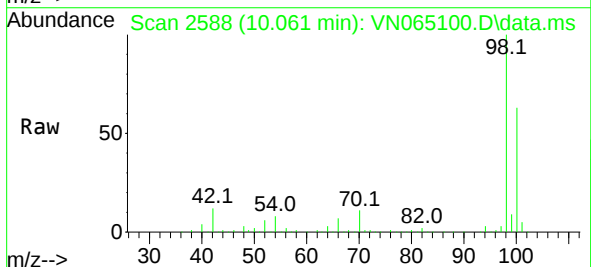
Instrument :
MSVOA_N
ClientSampleId :

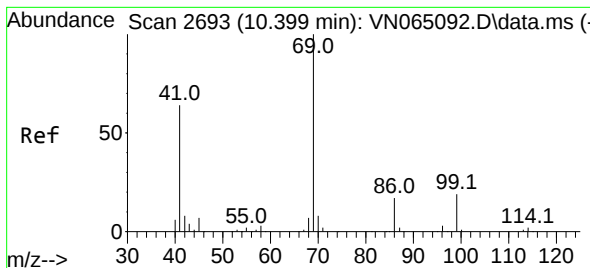
Tgt Ion: 88 Resp: 4713
Ion Ratio Lower Upper
88 100
43 5.9 24.2 36.4#
58 73.8 52.5 78.7



#50
Toluene-d8
Concen: 49.35 ug/l
RT: 10.061 min Scan# 2588
Delta R.T. 0.003 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

Tgt Ion: 98 Resp: 513336
Ion Ratio Lower Upper
98 100
100 64.3 51.7 77.5

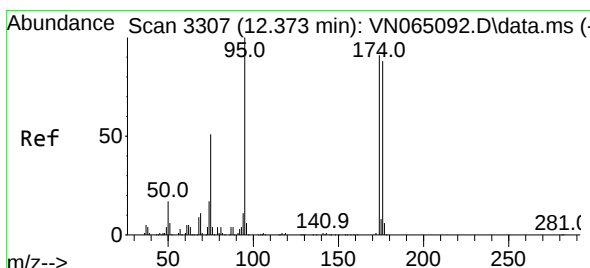
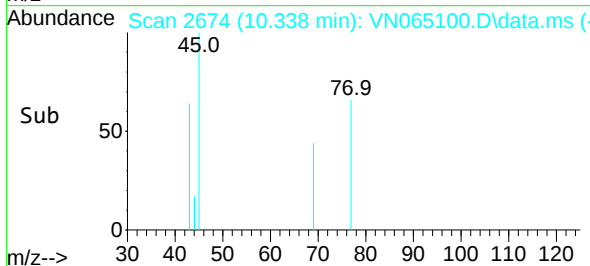
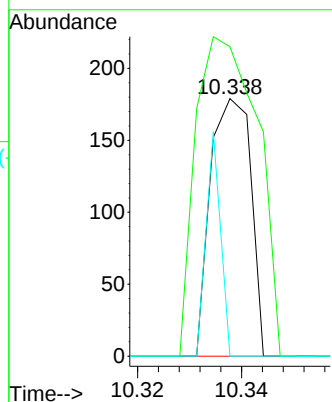
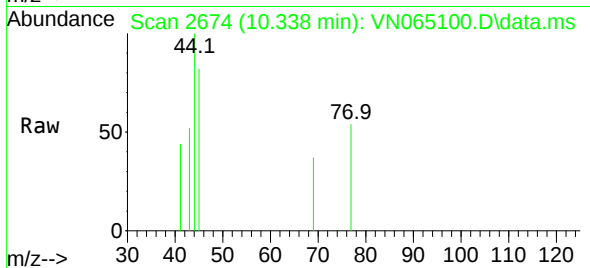




#56
Ethyl methacrylate
Concen: 1.79 ug/l
RT: 10.338 min Scan# 2674
Delta R.T. -0.061 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

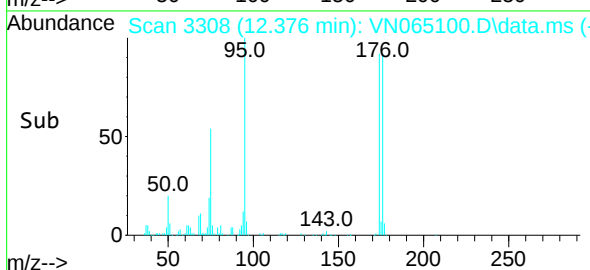
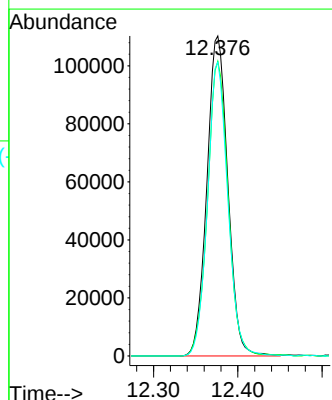
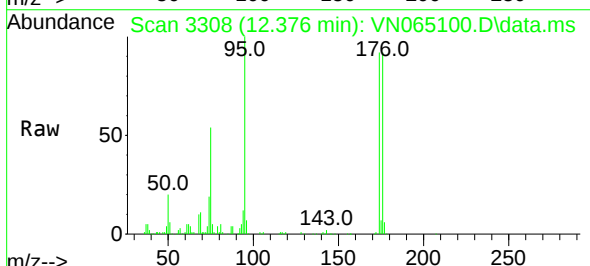
Instrument :
MSVOA_N
ClientSampled :

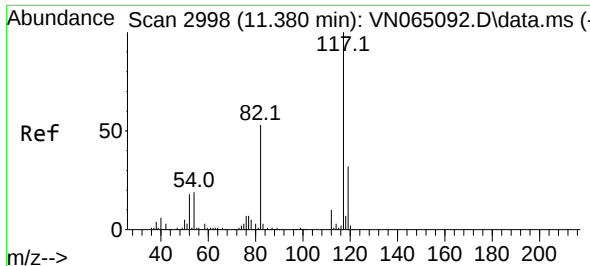
Tgt Ion: 69 Resp: 96
Ion Ratio Lower Upper
69 100
41 190.6 49.4 74.0#
39 31.3 25.9 38.9



#62
4-Bromofluorobenzene
Concen: 53.25 ug/l
RT: 12.376 min Scan# 3308
Delta R.T. 0.003 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

Tgt Ion: 95 Resp: 190754
Ion Ratio Lower Upper
95 100
174 89.9 0.0 160.4
176 88.7 0.0 158.4

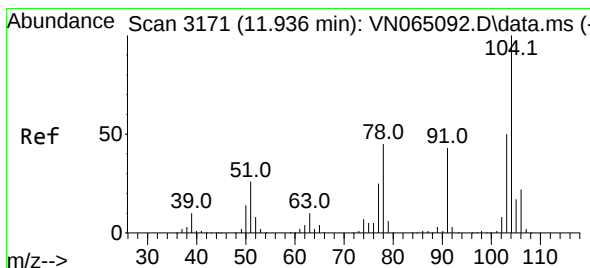
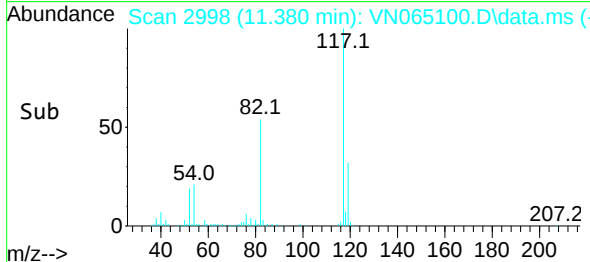
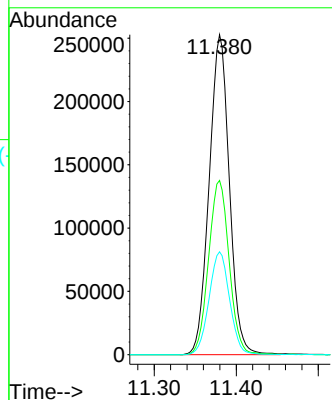
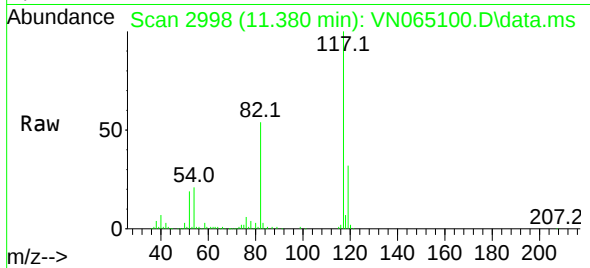




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.380 min Scan# 2998
Delta R.T. -0.000 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

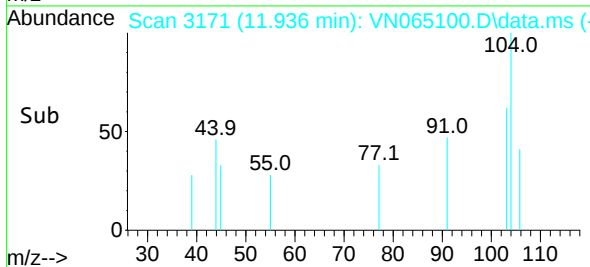
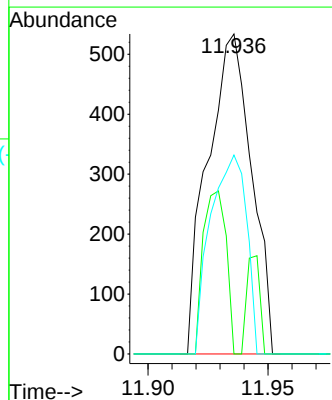
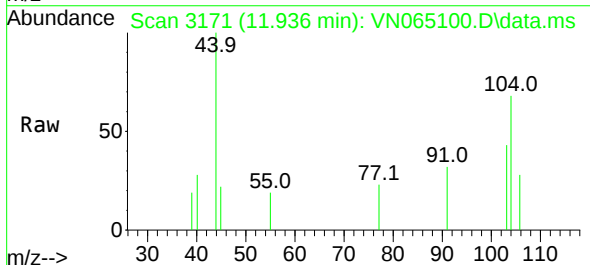
Instrument :
MSVOA_N
ClientSampled :

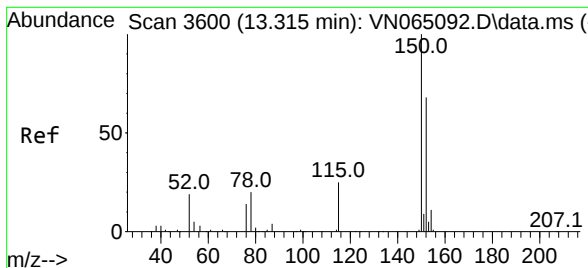
Tgt Ion:117 Resp: 432046
Ion Ratio Lower Upper
117 100
82 54.5 44.2 66.2
119 32.1 25.8 38.6



#70
Styrene
Concen: 1.44 ug/l
RT: 11.936 min Scan# 3171
Delta R.T. -0.000 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

Tgt Ion:104 Resp: 680
Ion Ratio Lower Upper
104 100
78 26.6 39.0 58.6#
103 50.9 44.3 66.5

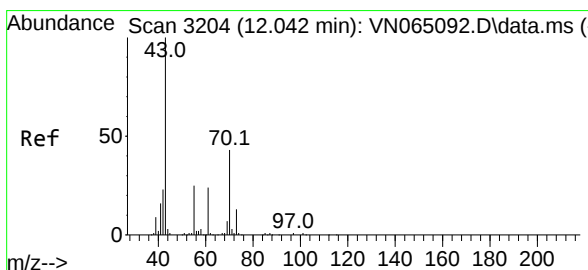
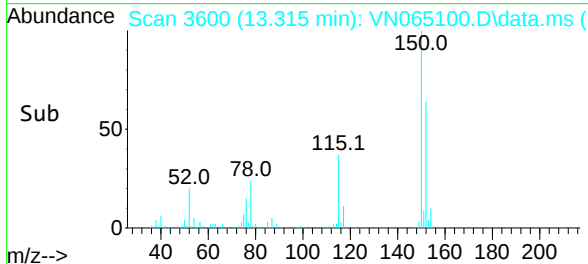
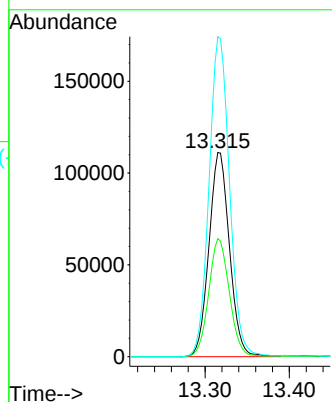
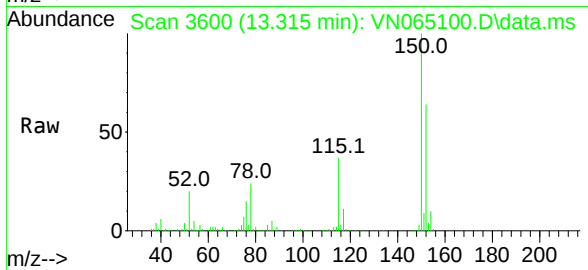




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.315 min Scan# 3600
Delta R.T. 0.000 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

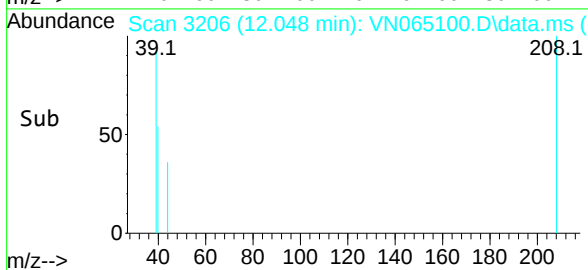
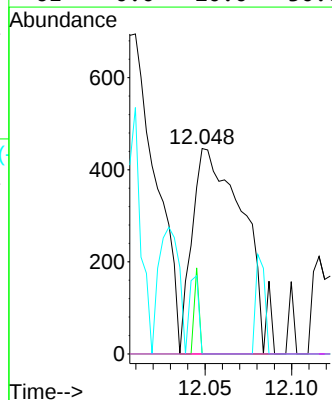
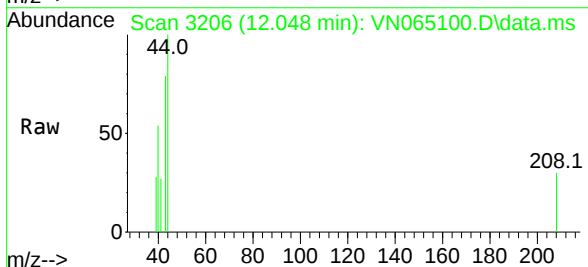
Instrument :
MSVOA_N
ClientSampleId :

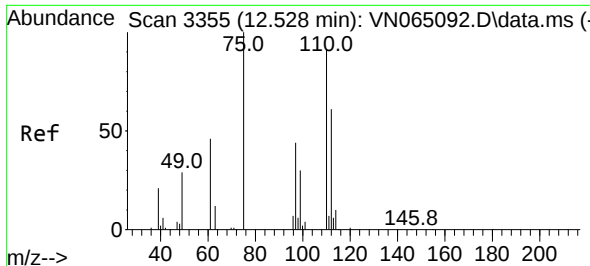
Tgt Ion:152 Resp: 188512
Ion Ratio Lower Upper
152 100
115 58.1 29.7 89.1
150 156.1 0.0 350.6



#74
N-ethyl acetate
Concen: 0.21 ug/l
RT: 12.048 min Scan# 3206
Delta R.T. 0.006 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

Tgt Ion: 43 Resp: 914
Ion Ratio Lower Upper
43 100
70 3.9 34.5 51.7#
55 24.4 20.4 30.6
61 0.0 20.0 30.0#

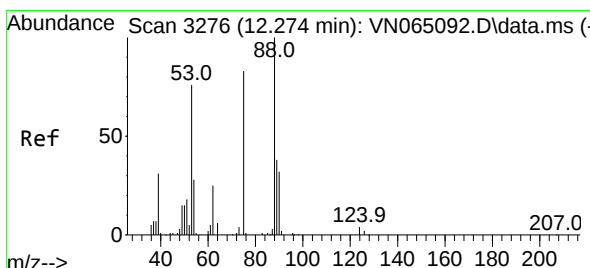
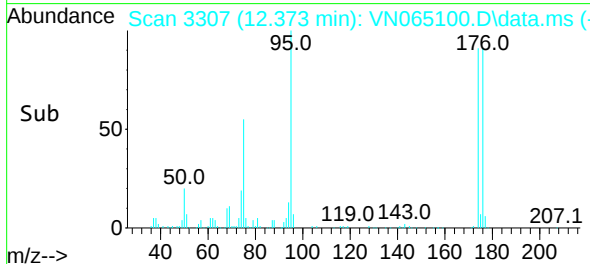
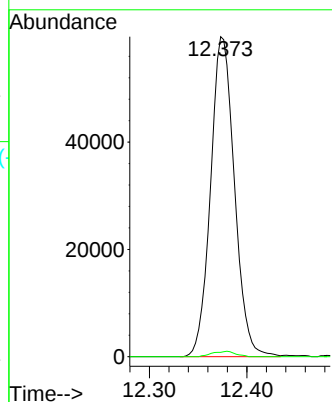
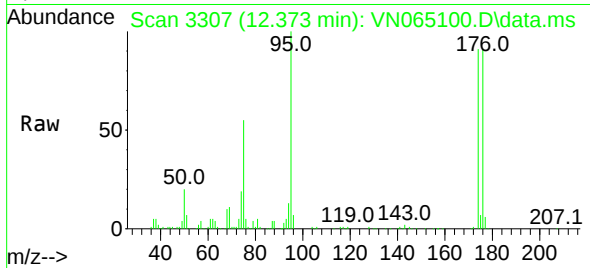




#76
1,2,3-Trichloropropane
Concen: 30.02 ug/l
RT: 12.373 min Scan# 3307
Delta R.T. -0.155 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

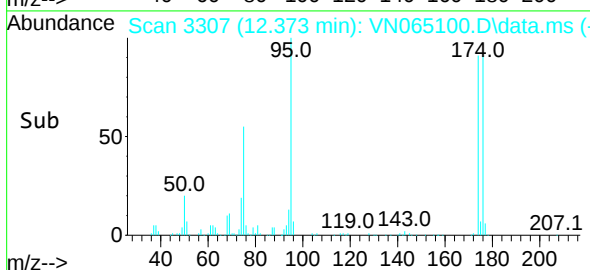
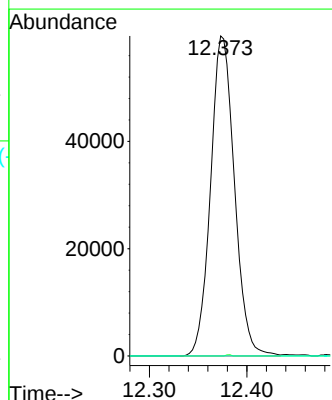
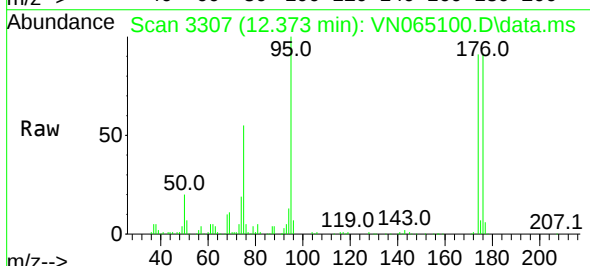
Instrument :
MSVOA_N
ClientSampled :

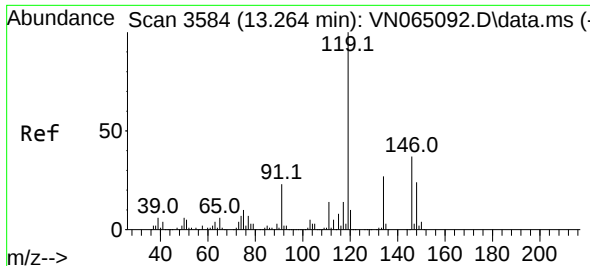
Tgt Ion: 75 Resp: 101555
Ion Ratio Lower Upper
75 100
77 1.6 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 83.54 ug/l
RT: 12.373 min Scan# 3307
Delta R.T. 0.099 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

Tgt Ion: 75 Resp: 101555
Ion Ratio Lower Upper
75 100
53 0.1 67.0 100.4#
89 0.0 39.6 59.4#

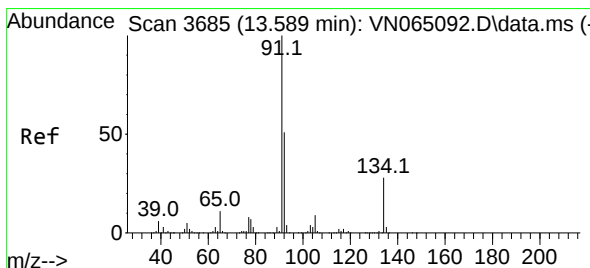
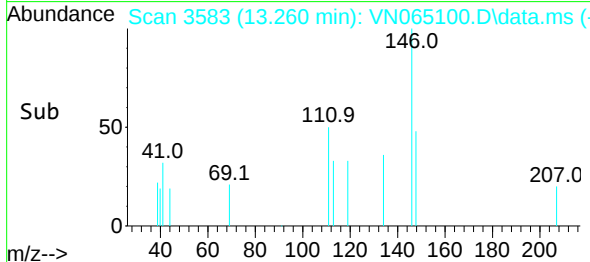
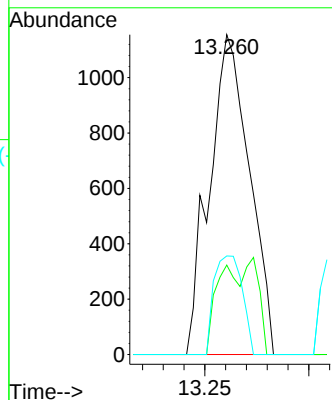
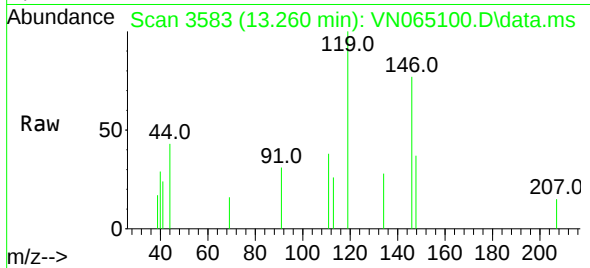




#86
p-Isopropyltoluene
Concen: 1.19 ug/l
RT: 13.260 min Scan# 3583
Delta R.T. -0.004 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

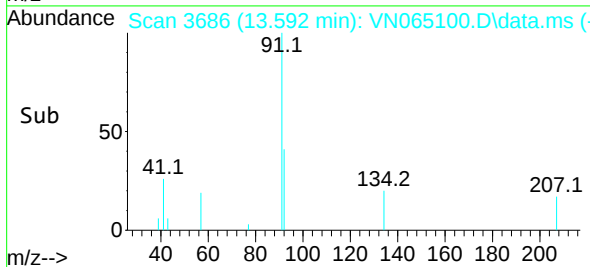
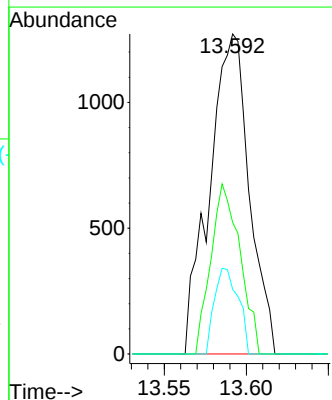
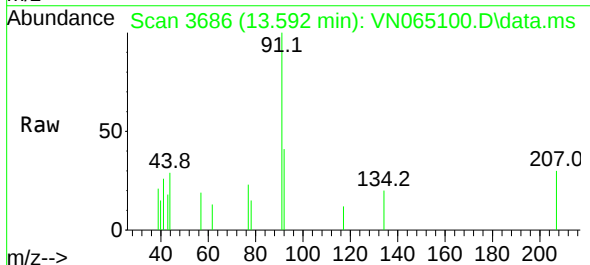
Instrument :
MSVOA_N
ClientSampleId :

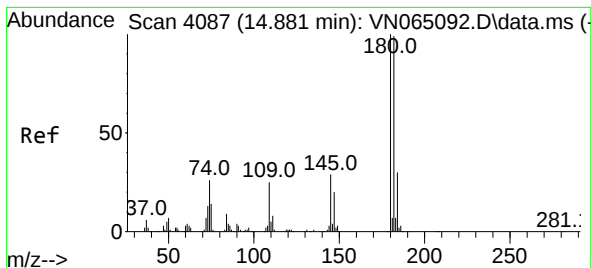
Tgt Ion:119 Resp: 1542
Ion Ratio Lower Upper
119 100
134 16.8 13.1 39.1
91 21.9 11.5 34.5



#89
n-Butylbenzene
Concen: 0.23 ug/l
RT: 13.592 min Scan# 3686
Delta R.T. 0.003 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

Tgt Ion: 91 Resp: 2142
Ion Ratio Lower Upper
91 100
92 38.9 26.0 78.0
134 15.9 12.9 38.6

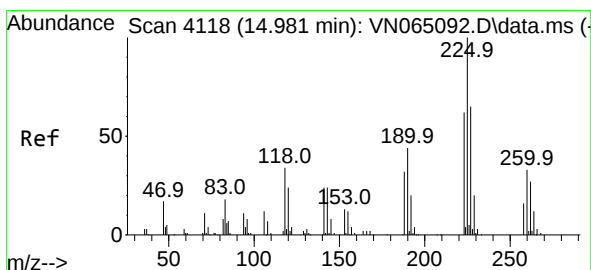
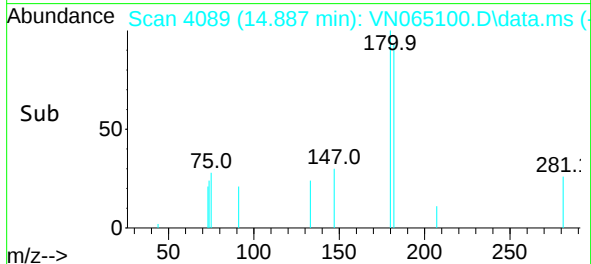
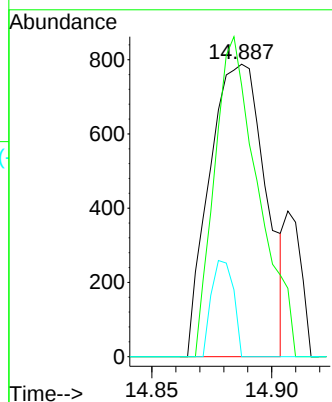
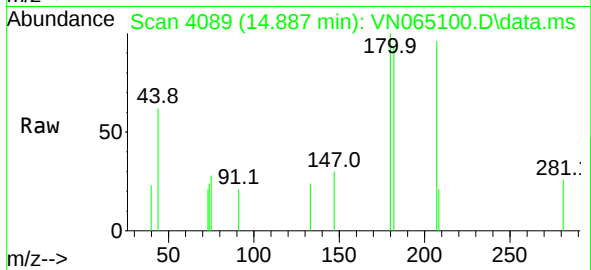




#93
1,2,4-Trichlorobenzene
Concen: 4.05 ug/l
RT: 14.887 min Scan# 4089
Delta R.T. 0.006 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

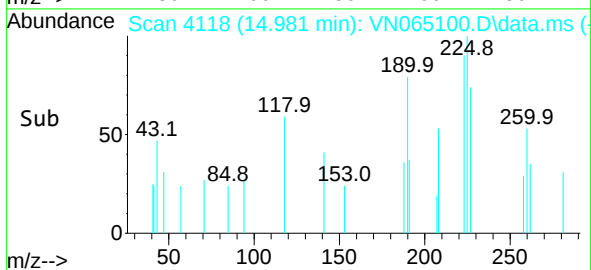
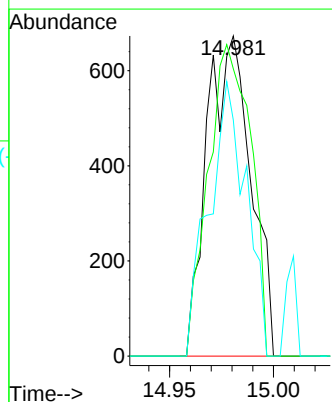
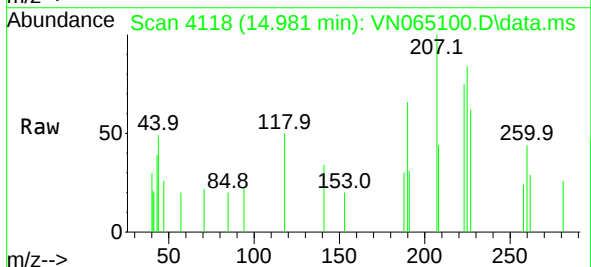
Instrument :
MSVOA_N
ClientSampled :

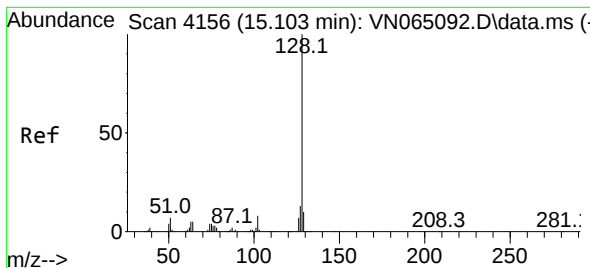
Tgt Ion:180 Resp: 1280
Ion Ratio Lower Upper
180 100
182 85.4 47.6 142.9
145 12.9 15.3 45.8#



#94
Hexachlorobutadiene
Concen: 0.48 ug/l
RT: 14.981 min Scan# 4118
Delta R.T. -0.000 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

Tgt Ion:225 Resp: 993
Ion Ratio Lower Upper
225 100
223 94.4 31.0 93.0#
227 72.8 32.0 96.0

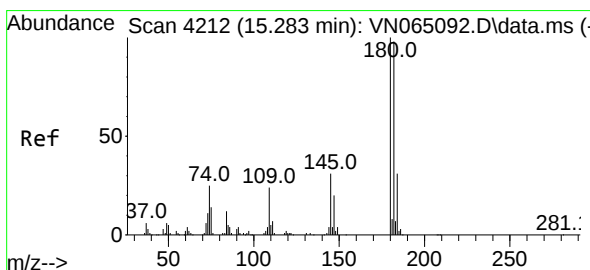
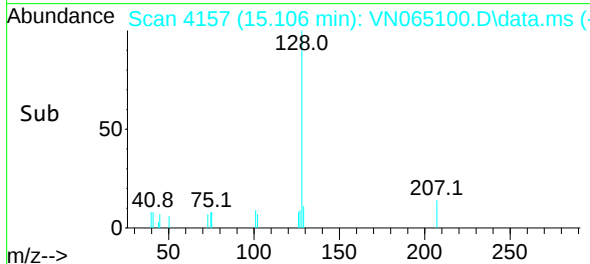
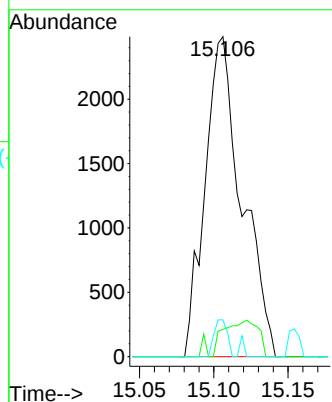
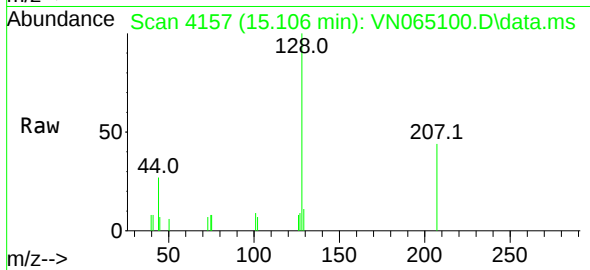




#95
Naphthalene
Concen: 4.63 ug/l
RT: 15.106 min Scan# 4157
Delta R.T. 0.003 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion:128 Resp: 4285
Ion Ratio Lower Upper
128 100
127 0.8 10.3 15.5#
129 4.1 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 4.21 ug/l
RT: 15.276 min Scan# 4210
Delta R.T. -0.007 min
Lab File: VN065100.D
Acq: 14 Dec 2020 15:09

Tgt Ion:180 Resp: 725
Ion Ratio Lower Upper
180 100
182 200.8 48.1 144.4#
145 60.4 16.4 49.1#

