

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080321\
 Data File : VN067991.D
 Acq On : 3 Aug 2021 19:03
 Operator : JC/MD
 Sample : M3261-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 04 03:42:04 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N072921W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 29 15:02:35 2021
 Response via : Initial Calibration

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

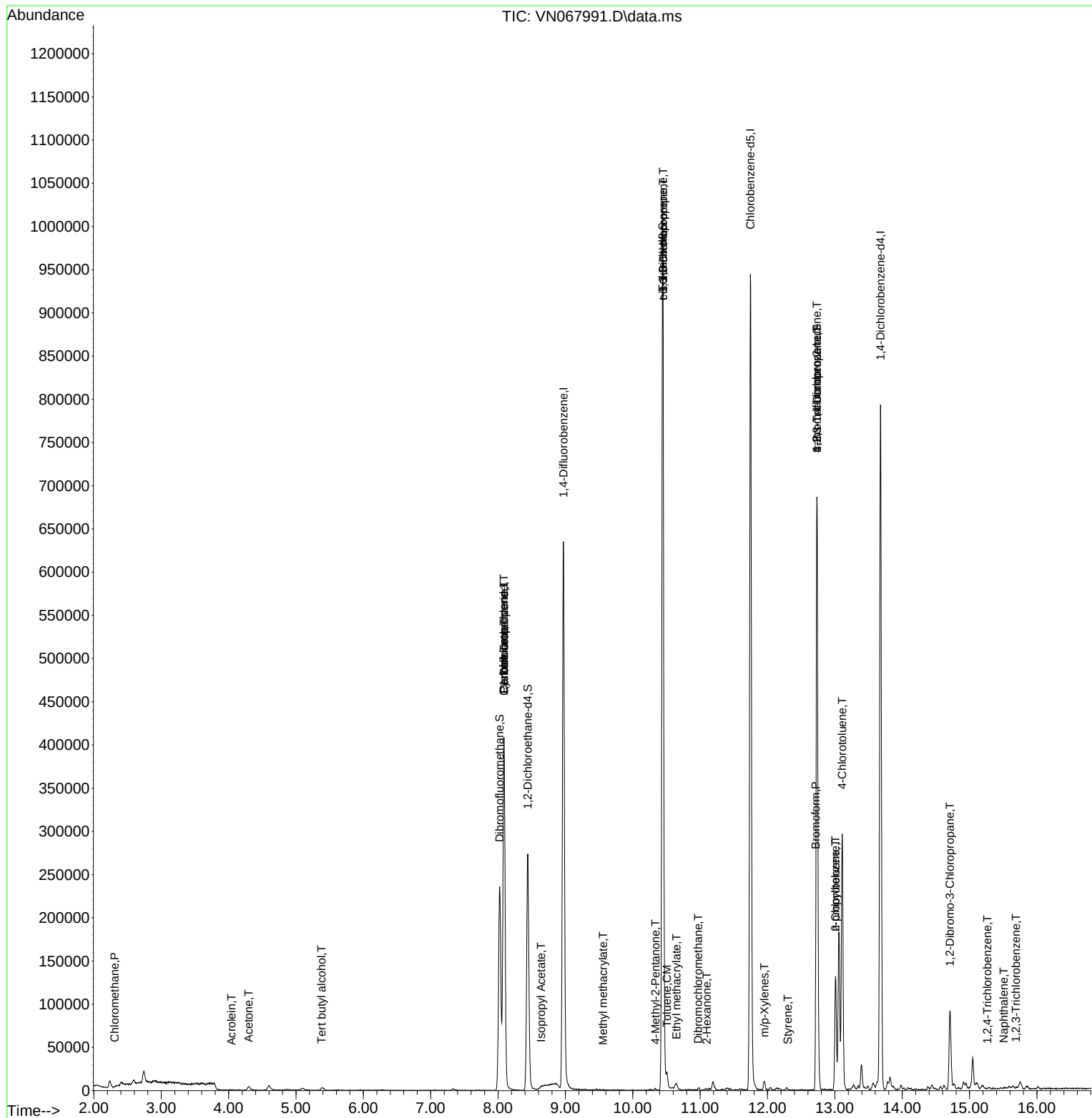
Internal Standards						
1) Pentafluorobenzene	8.088	168	289798	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	561053	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	555944	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	206176	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	234578	57.178	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery	=	114.360%	
35) Dibromofluoromethane	8.024	113	174167	53.266	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery	=	106.540%	
50) Toluene-d8	10.443	98	717831	47.758	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery	=	95.520%	
62) 4-Bromofluorobenzene	12.734	95	241596	44.364	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery	=	88.720%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.306	50	872	0.236	ug/l	96
11) Tert butyl alcohol	5.380	59	2301	4.186	ug/l	96
13) Acrolein	4.041	56	231	0.619	ug/l #	55
16) Acetone	4.296	43	8157	5.449	ug/l	99
18) Methyl Acetate	4.859	43	273	Below Cal	#	54
20) Methylene Chloride	5.098	84	273	Below Cal	#	47
31) Cyclohexane	8.086	56	7747	1.280	ug/l #	10
36) 1,1-Dichloropropene	8.086	75	27330	5.266	ug/l #	51
38) Carbon Tetrachloride	8.088	117	32622	6.392	ug/l #	16
43) Isopropyl Acetate	8.641	43	3391	0.417	ug/l #	58
48) Methyl methacrylate	9.558	41	139	2.338	ug/l #	59
51) 4-Methyl-2-Pentanone	10.336	43	1444	12.798	ug/l #	39
52) Toluene	10.508	92	4057	0.406	ug/l	99
53) t-1,3-Dichloropropene	10.451	75	59	2.842	ug/l #	1
54) cis-1,3-Dichloropropene	10.451	75	59	2.363	ug/l #	1
56) Ethyl methacrylate	10.650	69	24	3.102	ug/l #	1
59) 2-Hexanone	11.098	43	371	13.371	ug/l #	37
60) Dibromochloromethane	10.972	129	282	3.357	ug/l #	11
68) m/p-Xylenes	11.956	106	3288	4.421	ug/l	98
70) Styrene	12.302	104	95	2.638	ug/l	94
71) Bromoform	12.717	173	241	4.093	ug/l #	1
76) 1,2,3-Trichloropropane	12.734	75	133338	32.202	ug/l #	100
78) n-propylbenzene	13.010	91	74862	3.944	ug/l #	55
79) 2-Chlorotoluene	13.010	91	74862	6.471	ug/l	92
81) trans-1,4-Dichloro-2-b...	12.734	75	133338	86.513	ug/l #	6
82) 4-Chlorotoluene	13.109	91	184621	15.895	ug/l	93
92) 1,2-Dibromo-3-Chloropr...	14.708	75	2344	2.888	ug/l #	16
93) 1,2,4-Trichlorobenzene	15.265	180	206	2.532	ug/l #	33
95) Naphthalene	15.507	128	1921	3.330	ug/l #	82
96) 1,2,3-Trichlorobenzene	15.689	180	24	2.375	ug/l #	61

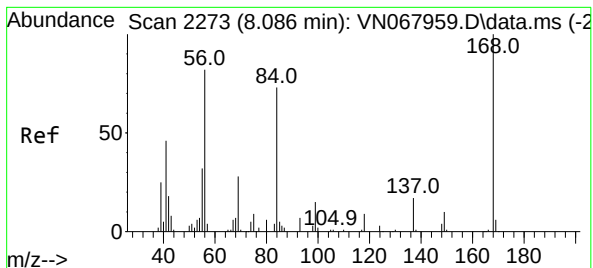
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.088 min Scan# 2274

Delta R.T. 0.002 min

Lab File: VN067991.D

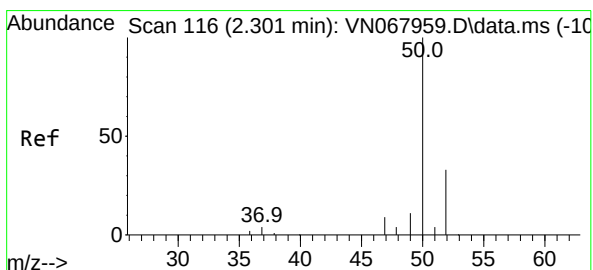
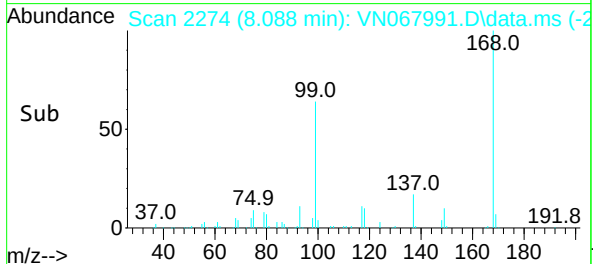
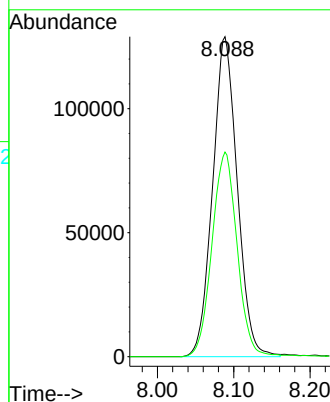
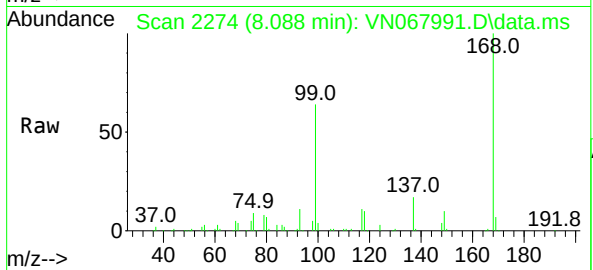
Acq: 3 Aug 2021 19:03

Tgt Ion:168 Resp: 289798

Ion Ratio Lower Upper

168 100

99 64.0 62.9 94.3



#3

Chloromethane

Concen: 0.236 ug/l

RT: 2.306 min Scan# 118

Delta R.T. 0.005 min

Lab File: VN067991.D

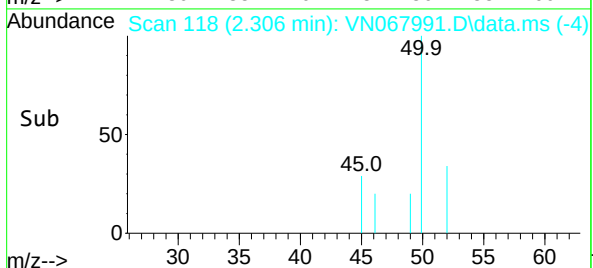
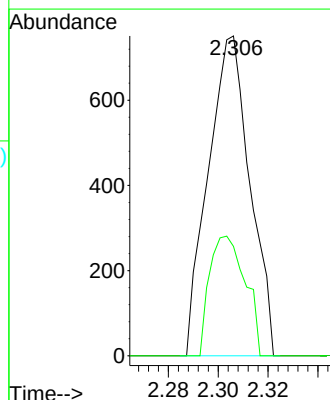
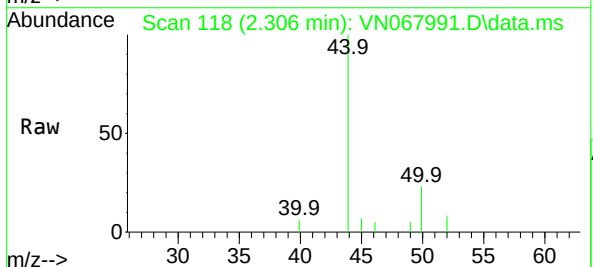
Acq: 3 Aug 2021 19:03

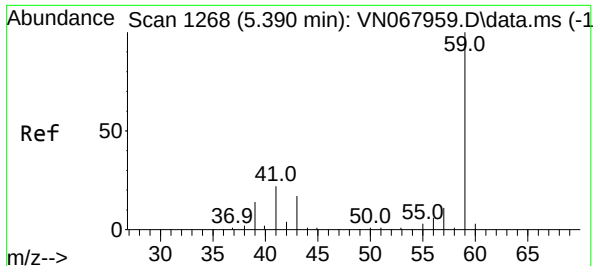
Tgt Ion: 50 Resp: 872

Ion Ratio Lower Upper

50 100

52 34.2 25.6 38.4



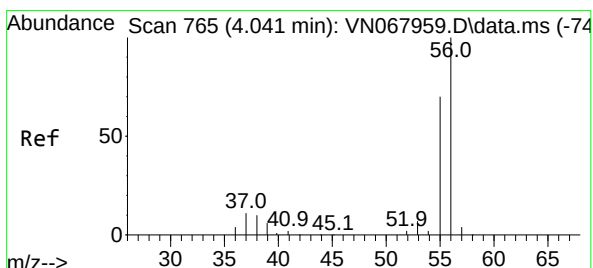
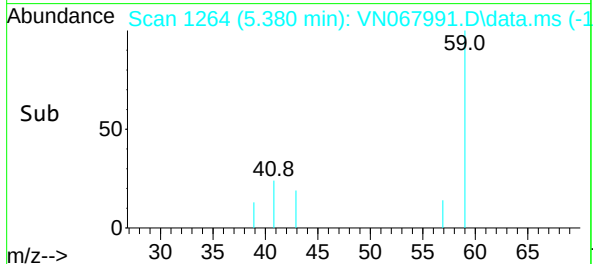
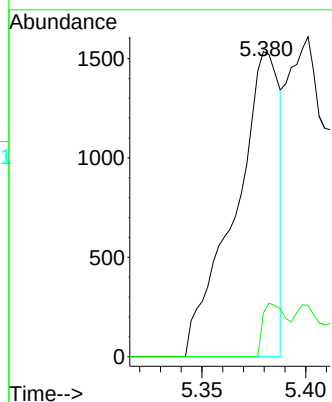
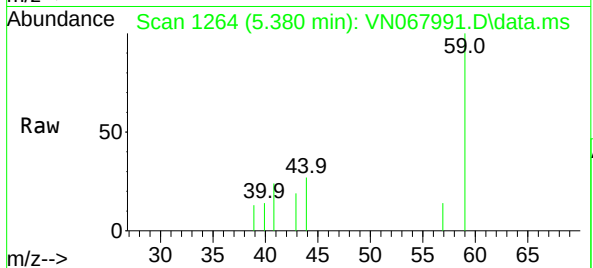


#11

Tert butyl alcohol
Concen: 4.186 ug/l
RT: 5.380 min Scan# 1264
Delta R.T. -0.010 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

Instrument :
MSVOA_N
ClientSampled :

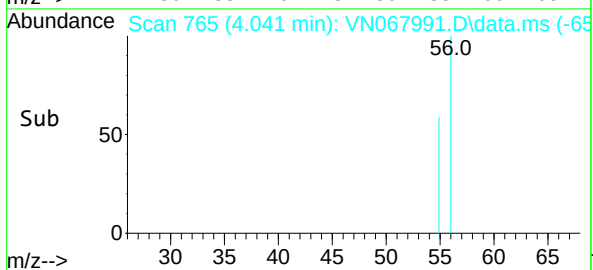
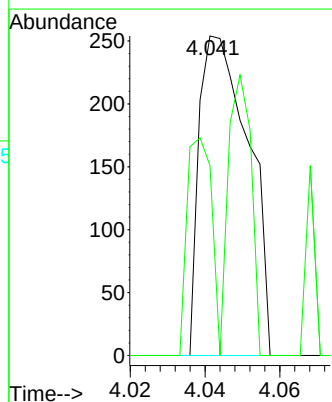
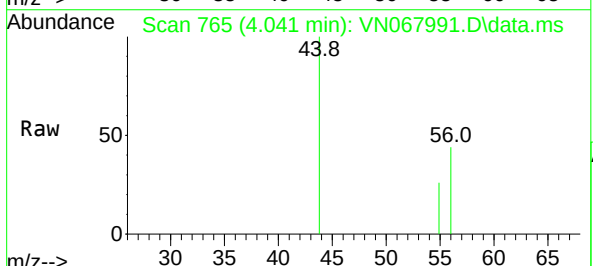
Tgt Ion: 59 Resp: 2301
Ion Ratio Lower Upper
59 100
57 9.5 8.7 13.1

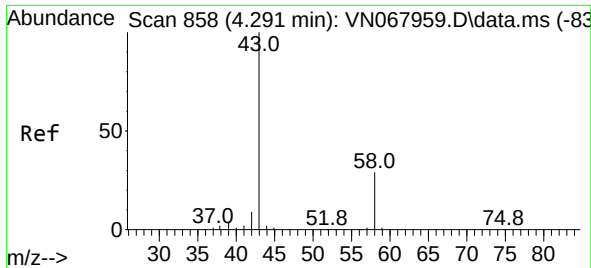


#13

Acrolein
Concen: 0.619 ug/l
RT: 4.041 min Scan# 765
Delta R.T. 0.000 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

Tgt Ion: 56 Resp: 231
Ion Ratio Lower Upper
56 100
55 34.2 57.4 86.0#

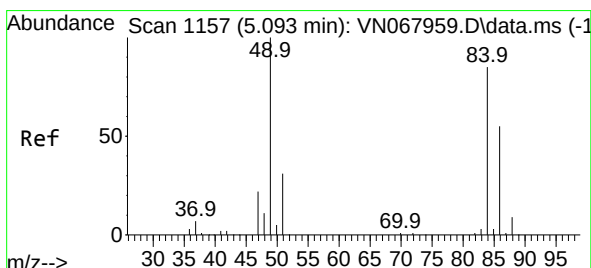
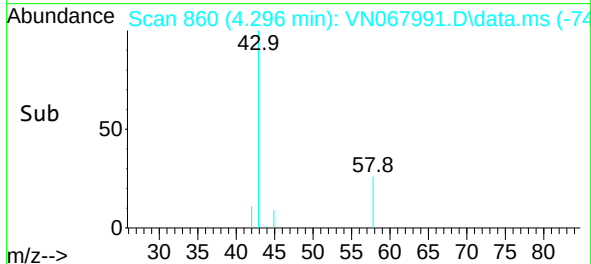
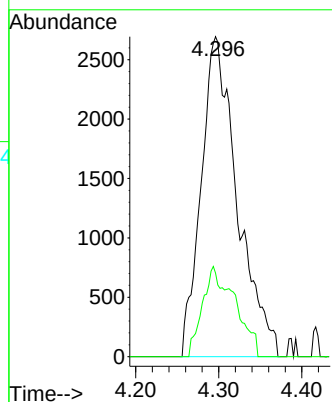
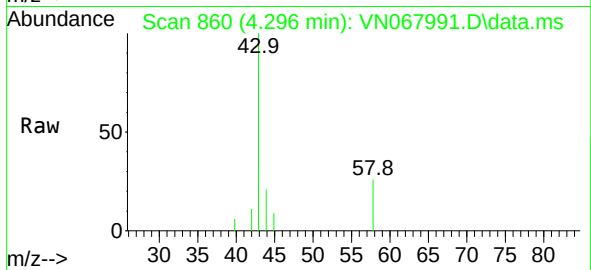




#16
Acetone
Concen: 5.449 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.005 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

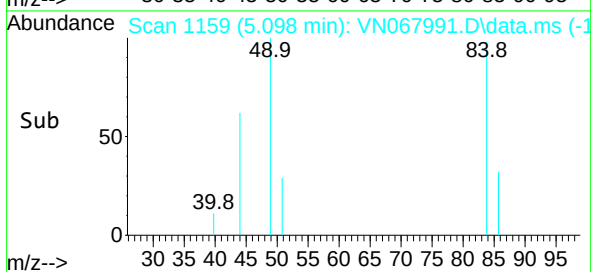
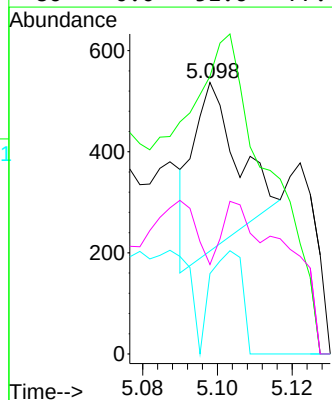
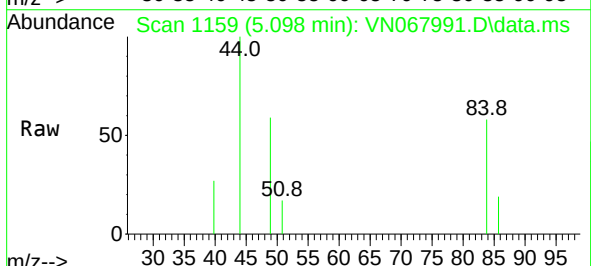
Instrument :
MSVOA_N
ClientSampled :

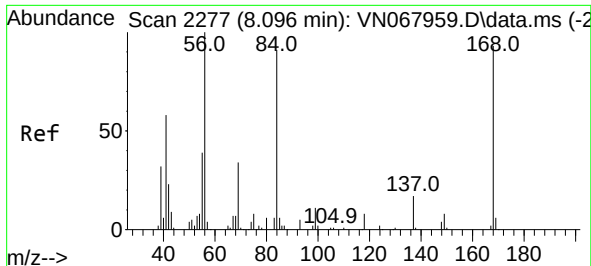
Tgt Ion: 43 Resp: 8157
Ion Ratio Lower Upper
43 100
58 26.1 21.2 31.8



#20
Methylene Chloride
Concen: Below Cal
RT: 5.098 min Scan# 1159
Delta R.T. 0.005 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

Tgt Ion: 84 Resp: 273
Ion Ratio Lower Upper
84 100
49 87.5 110.9 166.3#
51 68.5 32.6 49.0#
86 0.0 51.6 77.4#

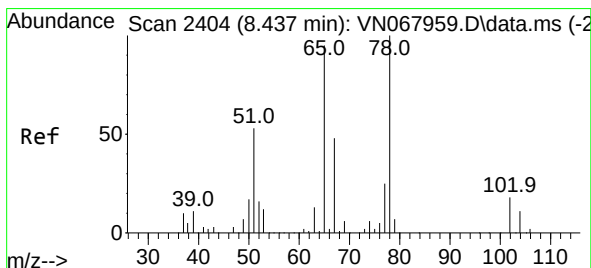
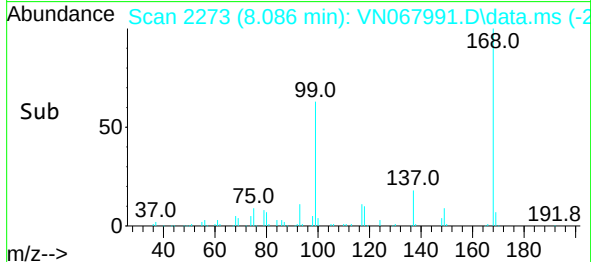
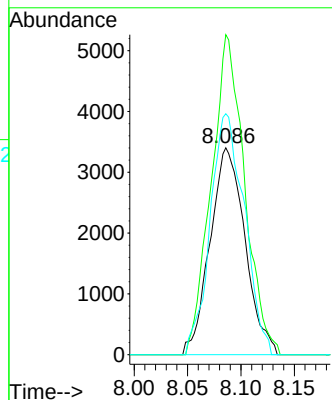
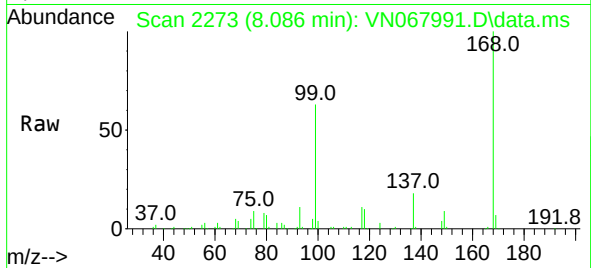




#31
Cyclohexane
Concen: 1.280 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.010 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

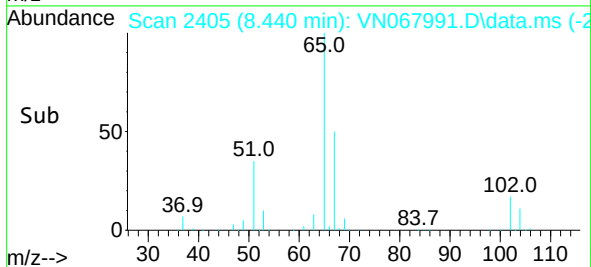
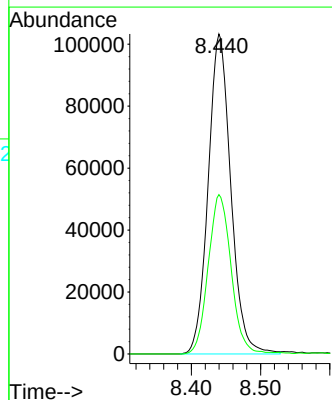
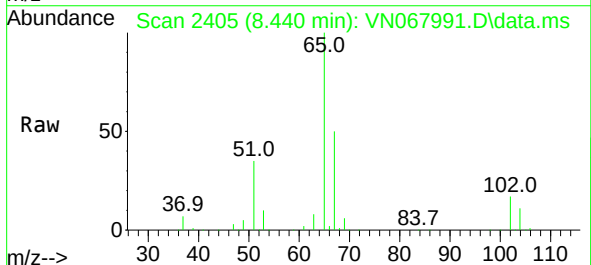
Instrument :
MSVOA_N
ClientSampled :

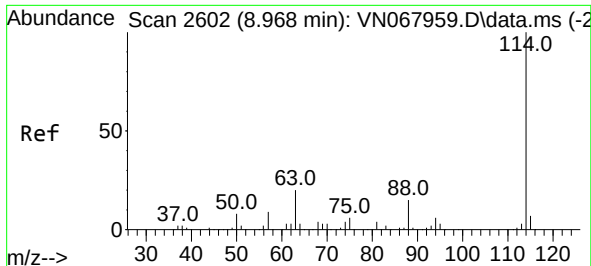
Tgt Ion: 56 Resp: 7747
Ion Ratio Lower Upper
56 100
69 154.6 27.3 40.9#
84 116.4 64.9 97.3#



#33
1,2-Dichloroethane-d4
Concen: 57.178 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

Tgt Ion: 65 Resp: 234578
Ion Ratio Lower Upper
65 100
67 50.4 0.0 98.6

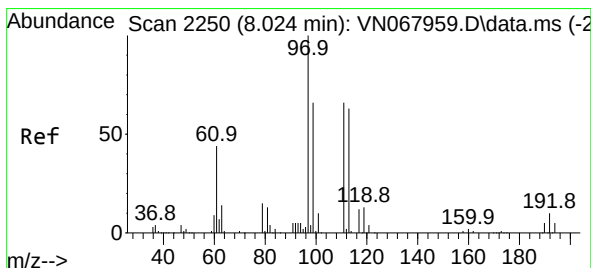
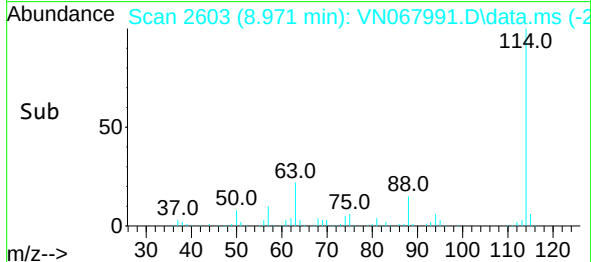
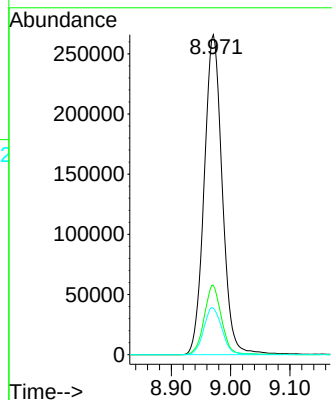
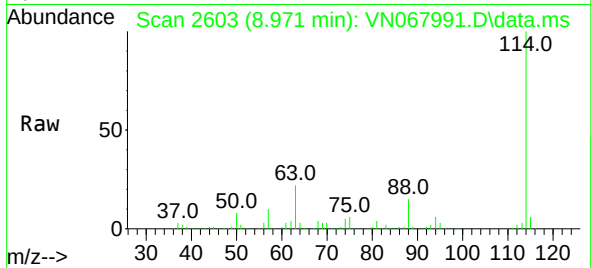




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.003 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

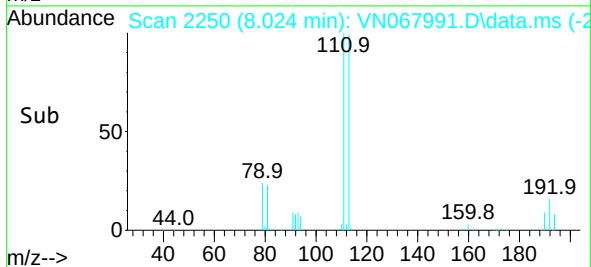
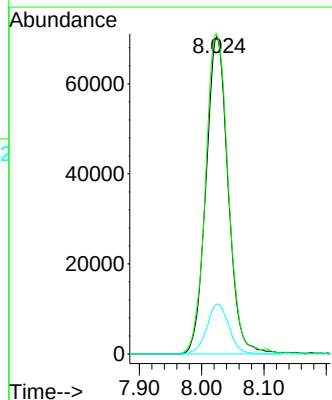
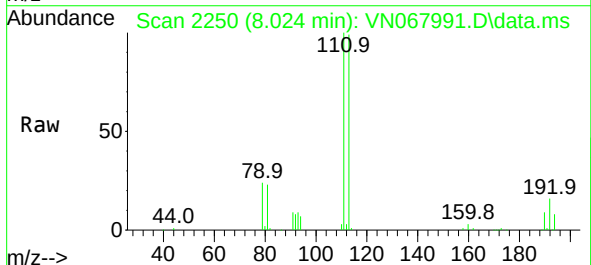
Instrument :
MSVOA_N
ClientSampled :

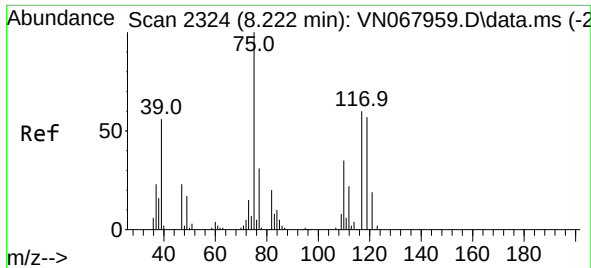
Tgt Ion:114 Resp: 561053
Ion Ratio Lower Upper
114 100
63 21.7 0.0 49.0
88 14.6 0.0 36.6



#35
Dibromofluoromethane
Concen: 53.266 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.000 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

Tgt Ion:113 Resp: 174167
Ion Ratio Lower Upper
113 100
111 103.4 83.8 125.8
192 15.8 13.4 20.0

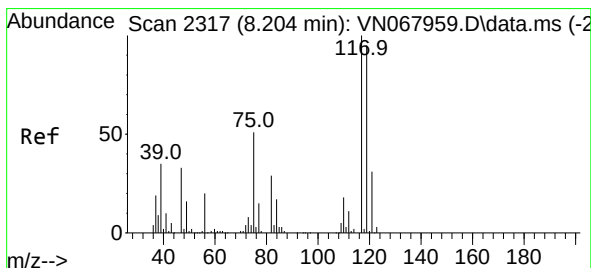
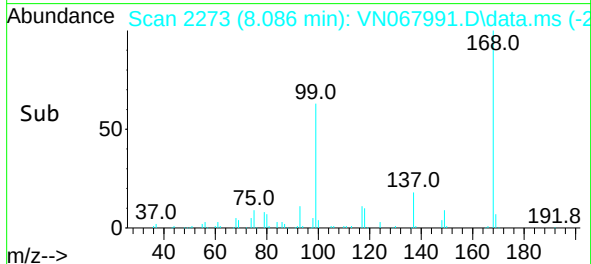
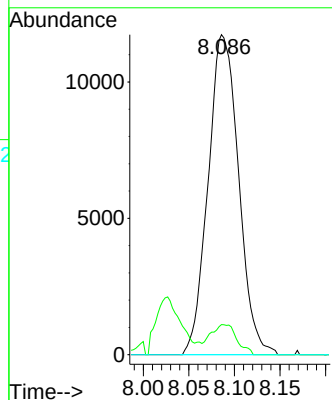
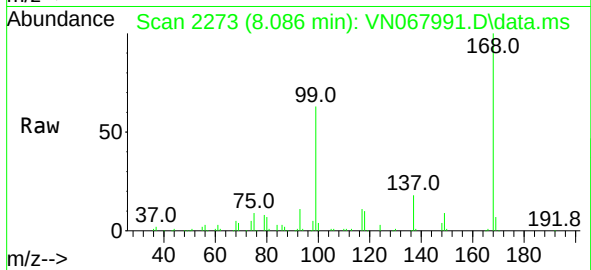




#36
 1,1-Dichloropropene
 Concen: 5.266 ug/l
 RT: 8.086 min Scan# 2273
 Delta R.T. -0.136 min
 Lab File: VN067991.D
 Acq: 3 Aug 2021 19:03

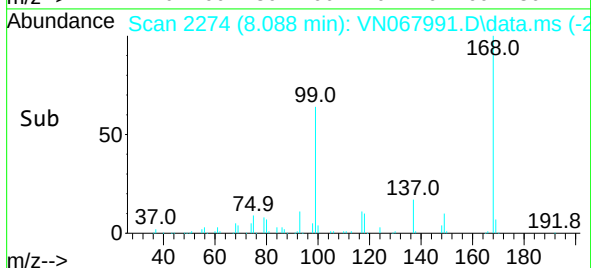
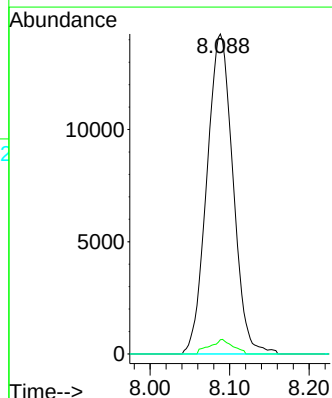
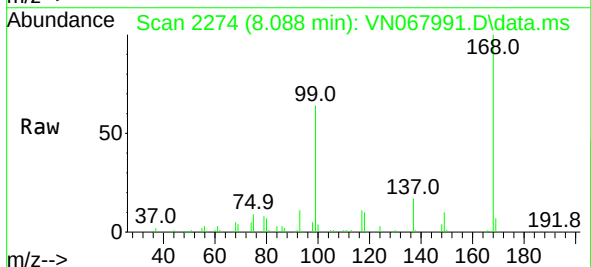
Instrument :
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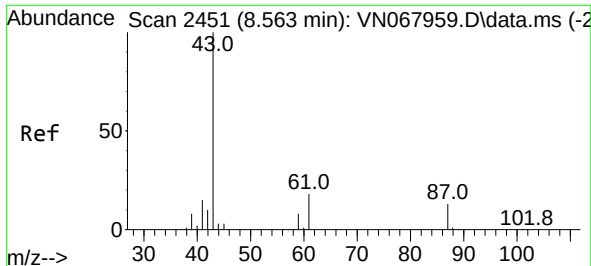
Tgt Ion: 75 Resp: 27330
 Ion Ratio Lower Upper
 75 100
 110 8.2 15.7 47.0#
 77 0.0 24.6 37.0#



#38
 Carbon Tetrachloride
 Concen: 6.392 ug/l
 RT: 8.088 min Scan# 2274
 Delta R.T. -0.116 min
 Lab File: VN067991.D
 Acq: 3 Aug 2021 19:03

Tgt Ion: 117 Resp: 32622
 Ion Ratio Lower Upper
 117 100
 119 4.5 75.4 113.2#
 121 0.0 23.5 35.3#

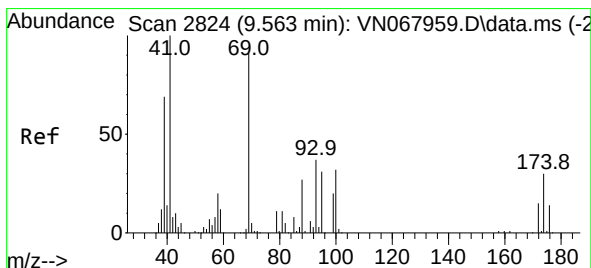
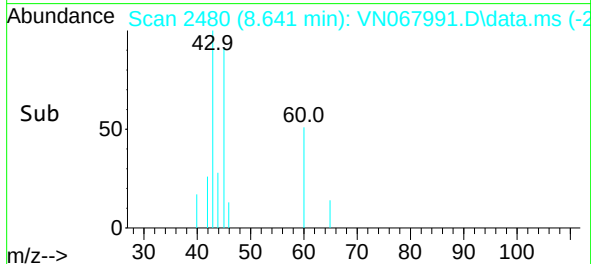
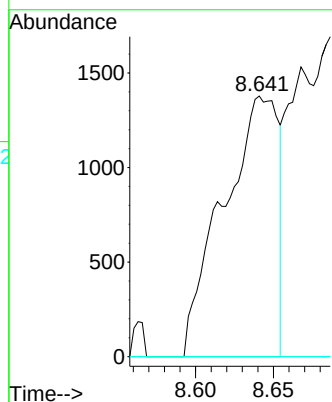
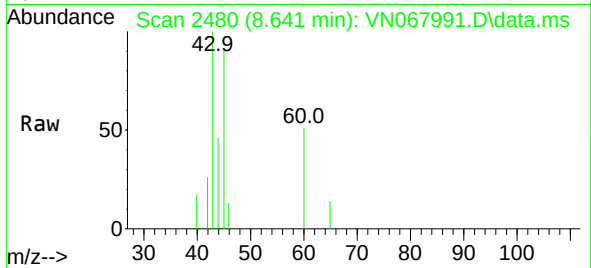




#43
Isopropyl Acetate
Concen: 0.417 ug/l
RT: 8.641 min Scan# 2480
Delta R.T. 0.078 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

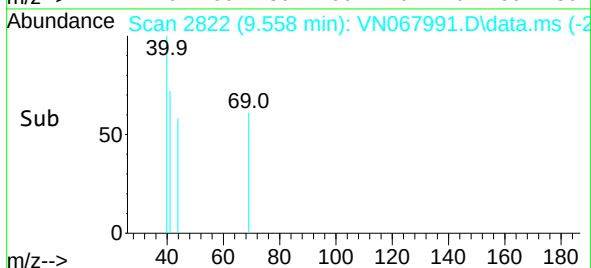
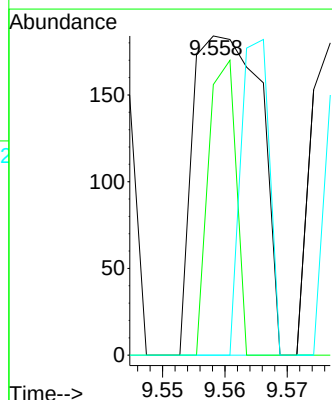
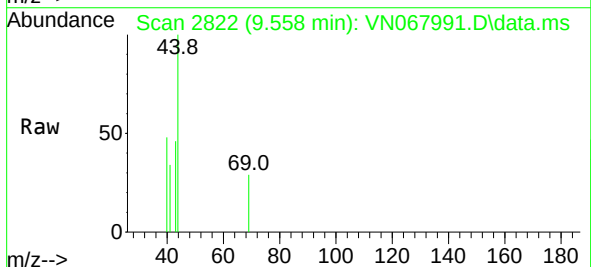
Instrument :
MSVOA_N
ClientSampled :

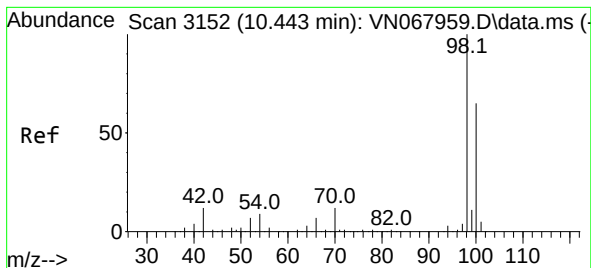
Tgt Ion: 43 Resp: 3391
Ion Ratio Lower Upper
43 100
61 0.0 19.0 28.4#
87 0.0 9.5 14.3#



#48
Methyl methacrylate
Concen: 2.338 ug/l
RT: 9.558 min Scan# 2822
Delta R.T. -0.005 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

Tgt Ion: 41 Resp: 139
Ion Ratio Lower Upper
41 100
69 37.4 64.6 96.8#
39 41.7 53.3 79.9#

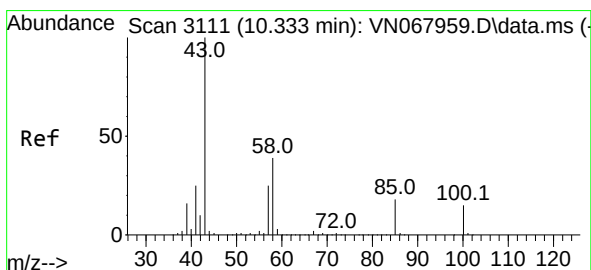
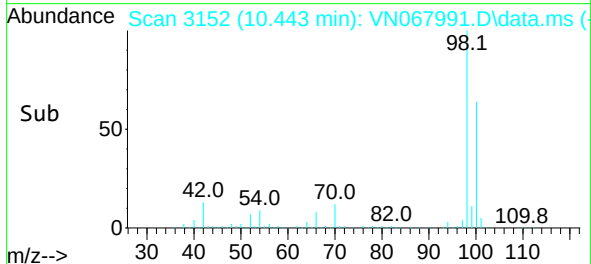
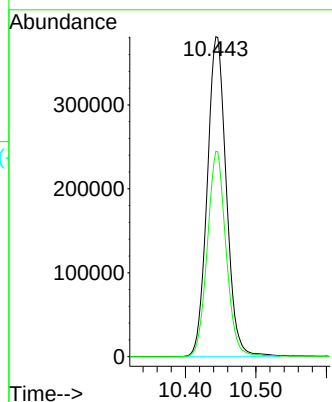
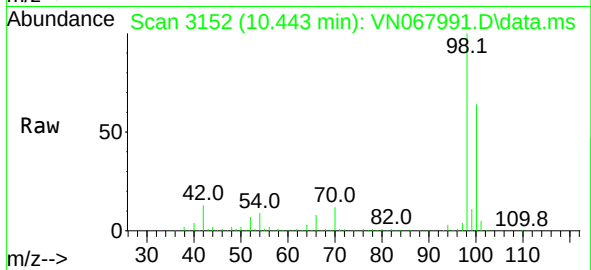




#50
Toluene-d8
Concen: 47.758 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

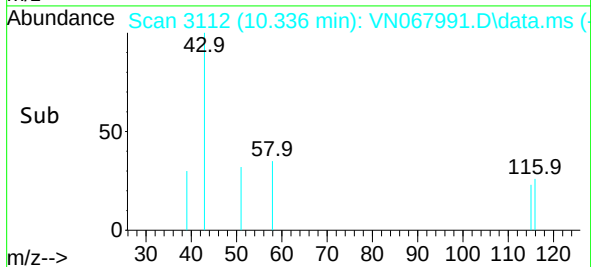
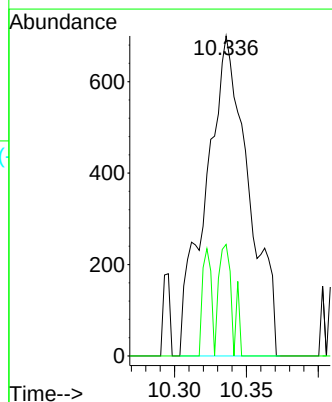
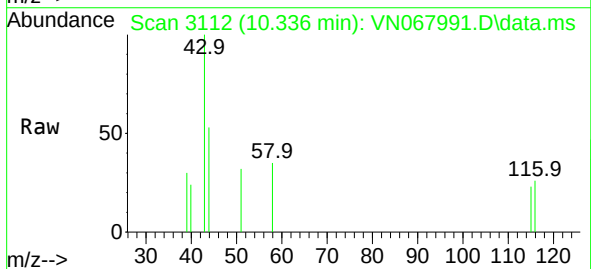
Instrument :
MSVOA_N
ClientSampled :

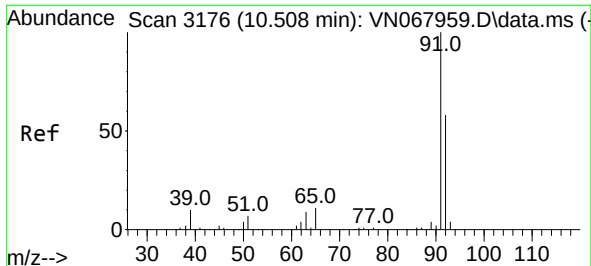
Tgt Ion: 98 Resp: 717831
Ion Ratio Lower Upper
98 100
100 62.8 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 12.798 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.003 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

Tgt Ion: 43 Resp: 1444
Ion Ratio Lower Upper
43 100
58 0.0 28.6 43.0#

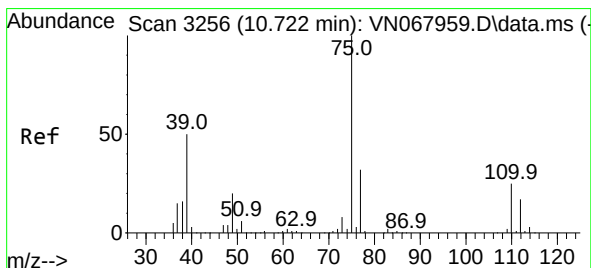
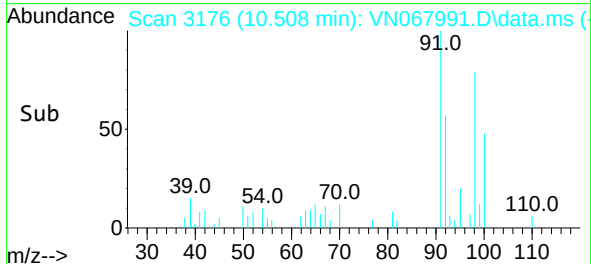
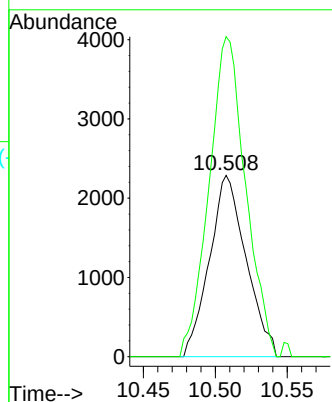
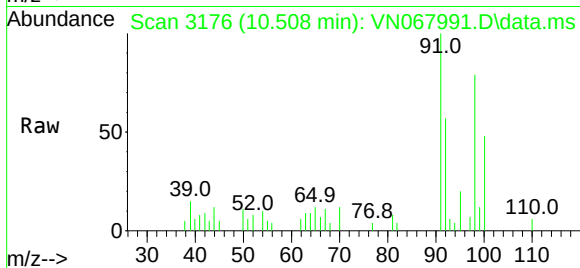




#52
Toluene
Concen: 0.406 ug/l
RT: 10.508 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

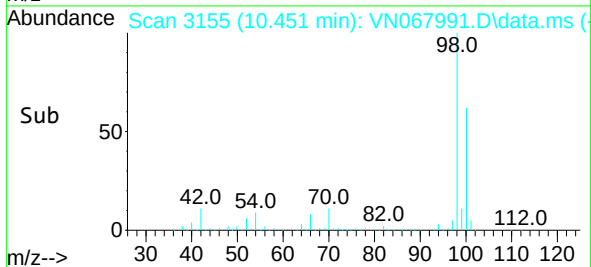
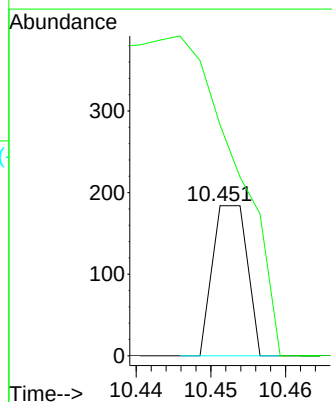
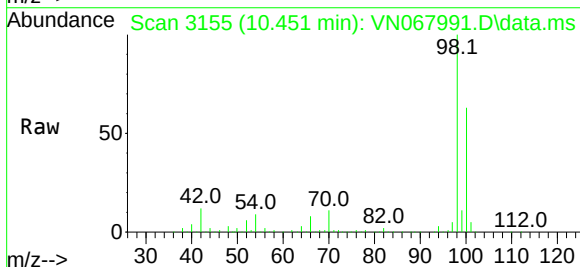
Instrument :
MSVOA_N
ClientSampleId :

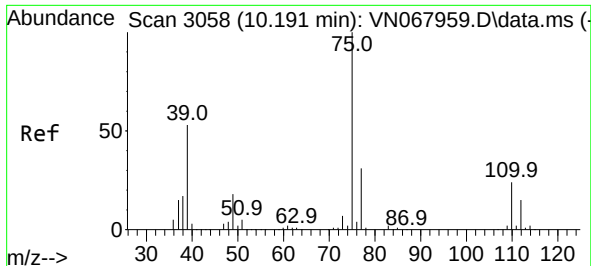
Tgt Ion: 92 Resp: 4057
Ion Ratio Lower Upper
92 100
91 176.1 139.6 209.4



#53
t-1,3-Dichloropropene
Concen: 2.842 ug/l
RT: 10.451 min Scan# 3155
Delta R.T. -0.271 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

Tgt Ion: 75 Resp: 59
Ion Ratio Lower Upper
75 100
77 153.8 25.1 37.7#

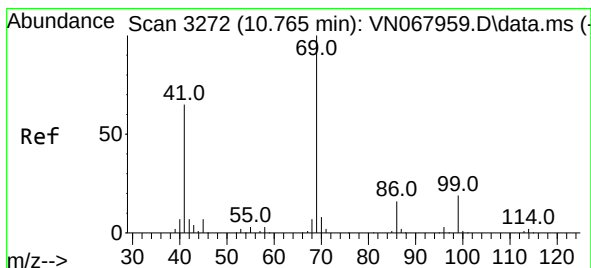
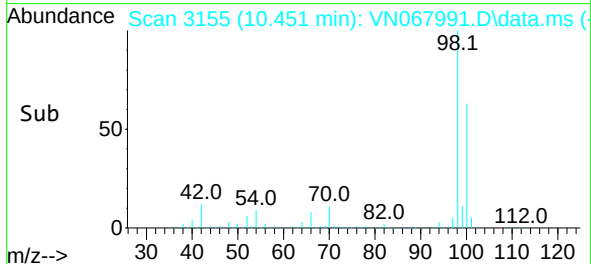
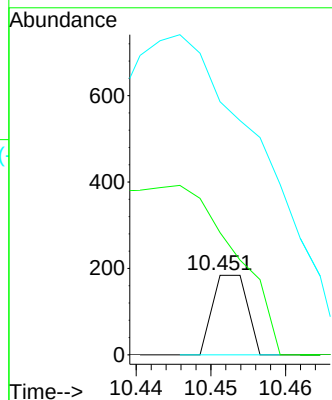
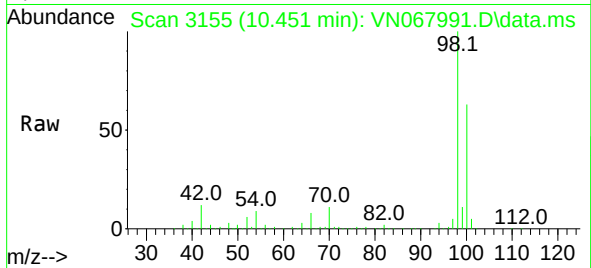




#54
 cis-1,3-Dichloropropene
 Concen: 2.363 ug/l
 RT: 10.451 min Scan# 3155
 Delta R.T. 0.260 min
 Lab File: VN067991.D
 Acq: 3 Aug 2021 19:03

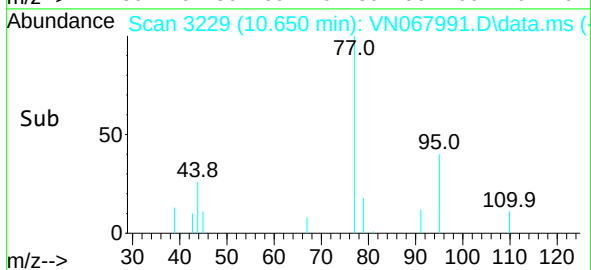
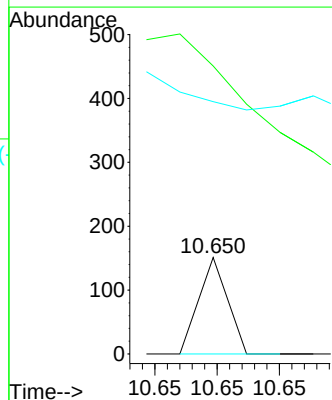
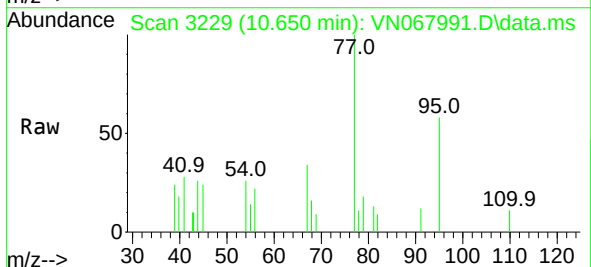
Instrument :
 MSVOA_N
 ClientSampled :

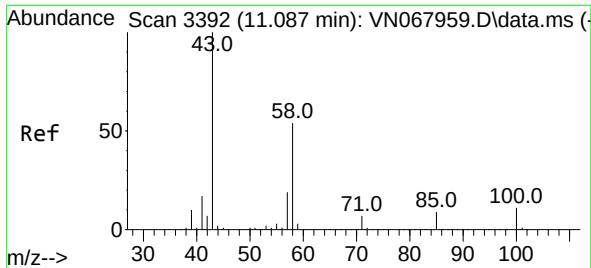
Tgt Ion: 75 Resp: 59
 Ion Ratio Lower Upper
 75 100
 77 153.8 24.6 37.0#
 39 104.3 50.7 76.1#



#56
 Ethyl methacrylate
 Concen: 3.102 ug/l
 RT: 10.650 min Scan# 3229
 Delta R.T. -0.115 min
 Lab File: VN067991.D
 Acq: 3 Aug 2021 19:03

Tgt Ion: 69 Resp: 24
 Ion Ratio Lower Upper
 69 100
 41 5245.8 58.6 88.0#
 39 495.8 38.3 57.5#

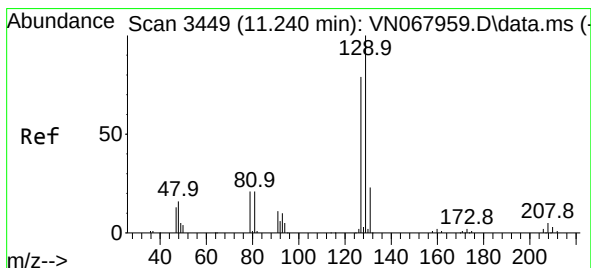
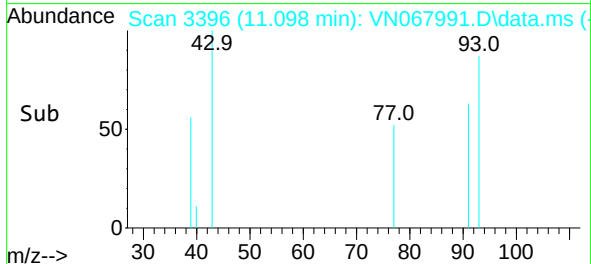
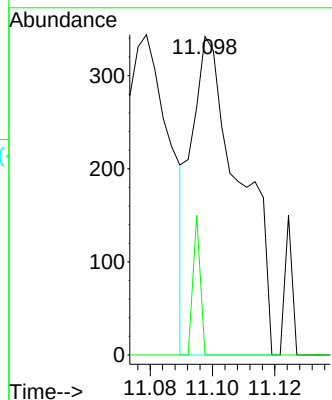
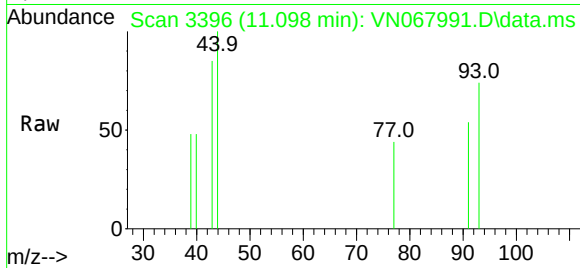




#59
2-Hexanone
Concen: 13.371 ug/l
RT: 11.098 min Scan# 3396
Delta R.T. 0.011 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

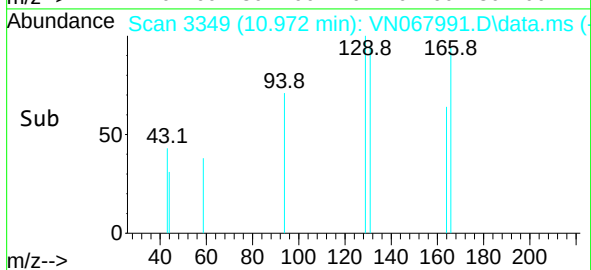
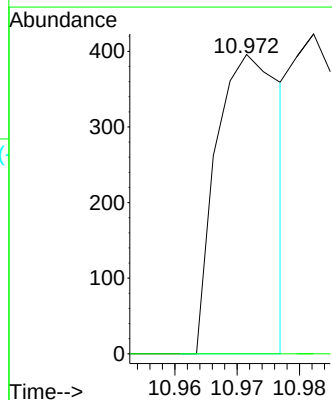
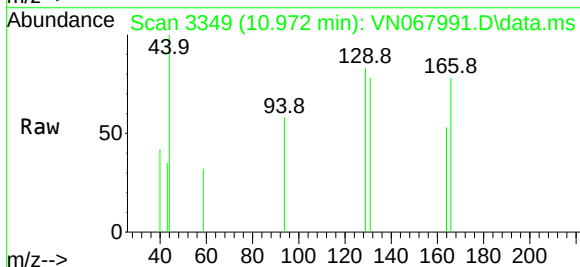
Instrument :
MSVOA_N
ClientSampled :

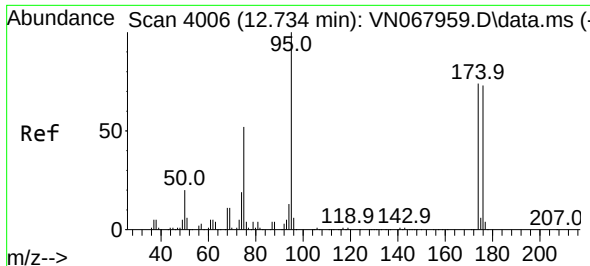
Tgt Ion: 43 Resp: 371
Ion Ratio Lower Upper
43 100
58 6.5 24.7 74.1#



#60
Dibromochloromethane
Concen: 3.357 ug/l
RT: 10.972 min Scan# 3349
Delta R.T. -0.268 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

Tgt Ion: 129 Resp: 282
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#

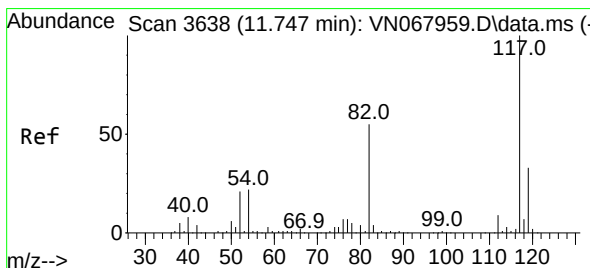
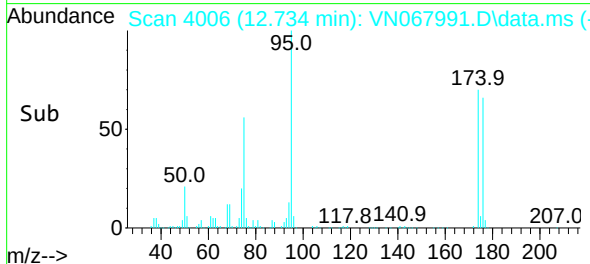
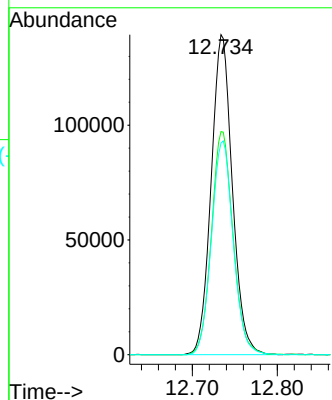
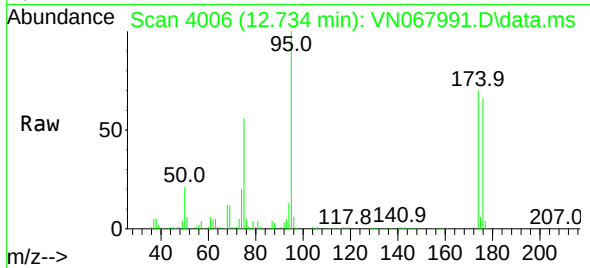




#62
4-Bromofluorobenzene
Concen: 44.364 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

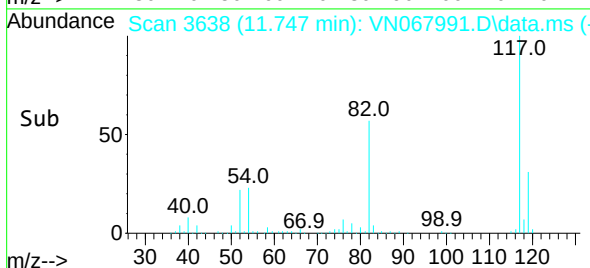
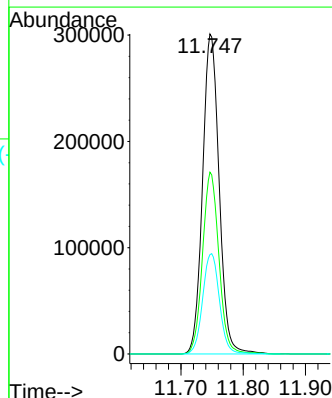
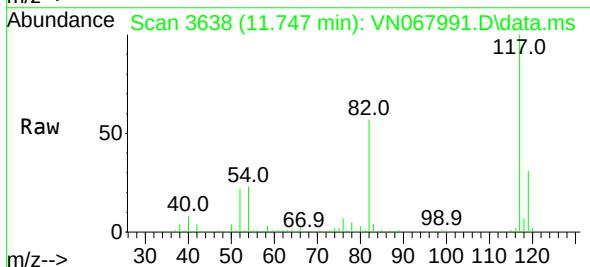
Instrument :
MSVOA_N
ClientSampleId :

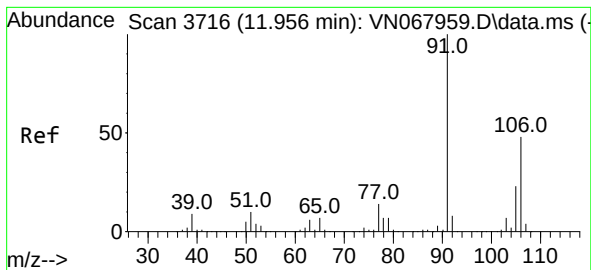
Tgt Ion: 95 Resp: 241596
Ion Ratio Lower Upper
95 100
174 71.2 0.0 122.0
176 68.5 0.0 117.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. -0.000 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

Tgt Ion: 117 Resp: 555944
Ion Ratio Lower Upper
117 100
82 56.8 53.1 79.7
119 31.1 25.5 38.3

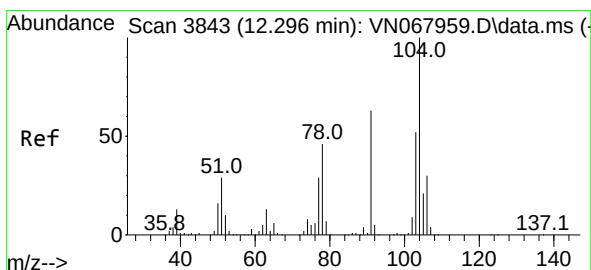
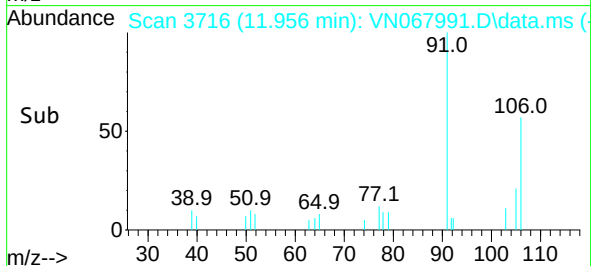
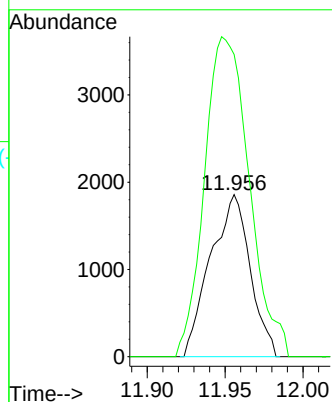
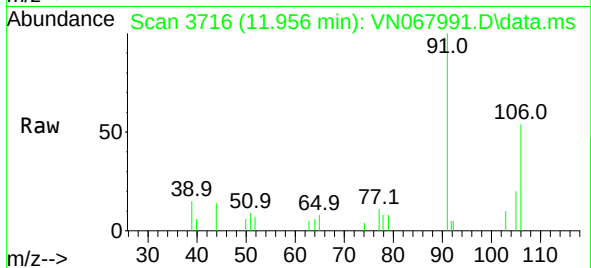




#68
m/p-Xylenes
Concen: 4.421 ug/l
RT: 11.956 min Scan# 3716
Delta R.T. -0.000 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

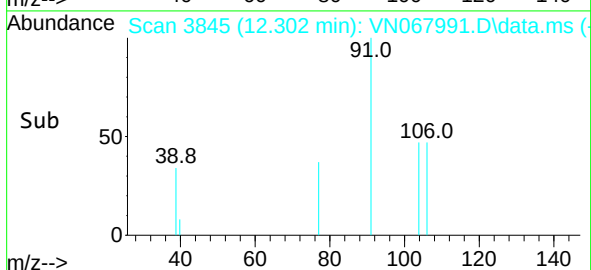
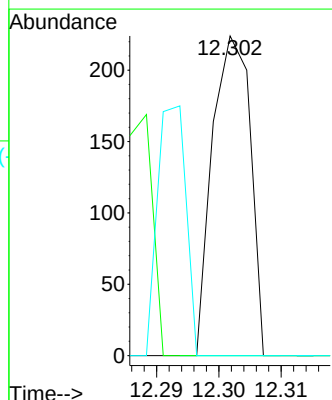
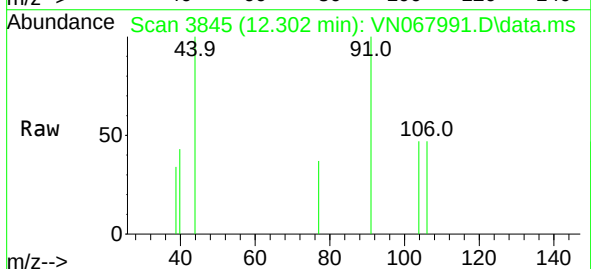
Instrument :
MSVOA_N
ClientSampled :

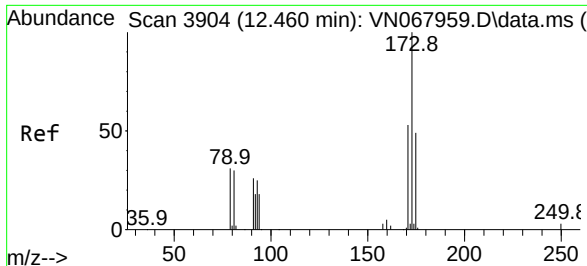
Tgt Ion:106 Resp: 3288
Ion Ratio Lower Upper
106 100
91 222.6 180.6 270.8



#70
Styrene
Concen: 2.638 ug/l
RT: 12.302 min Scan# 3845
Delta R.T. 0.006 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

Tgt Ion:104 Resp: 95
Ion Ratio Lower Upper
104 100
78 54.7 48.2 72.2
103 58.9 44.5 66.7

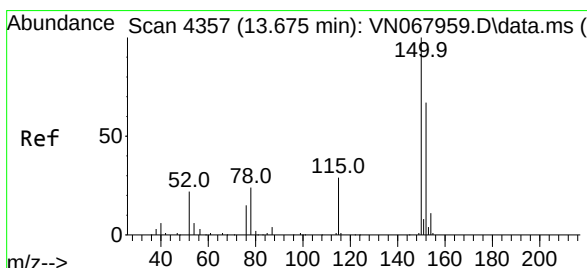
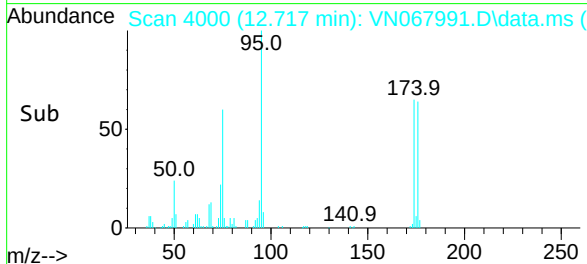
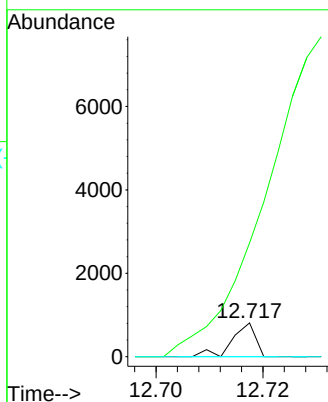
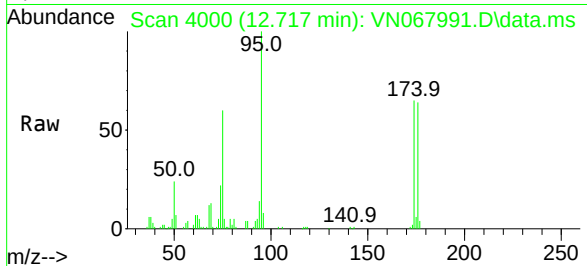




#71
Bromoform
Concen: 4.093 ug/l
RT: 12.717 min Scan# 4000
Delta R.T. 0.257 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

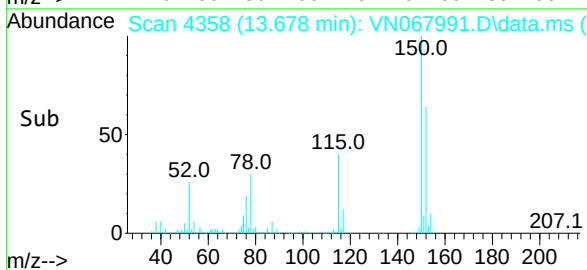
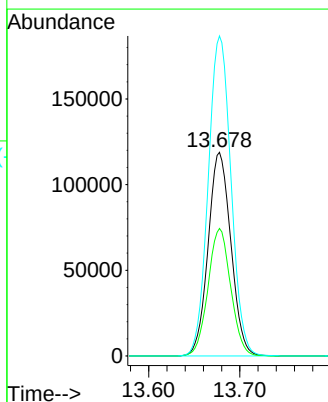
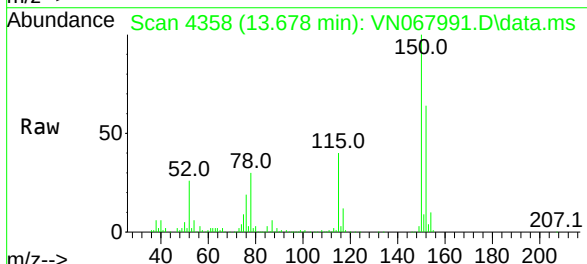
Instrument :
MSVOA_N
ClientSampled :

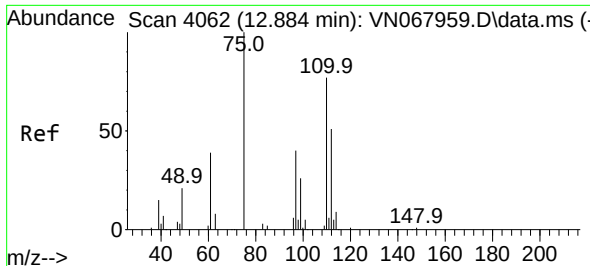
Tgt Ion:173 Resp: 241
Ion Ratio Lower Upper
173 100
175 5466.8 23.9 71.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

Tgt Ion:152 Resp: 206176
Ion Ratio Lower Upper
152 100
115 62.3 36.1 108.5
150 157.1 0.0 351.8

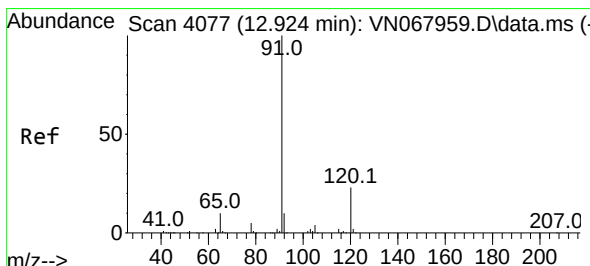
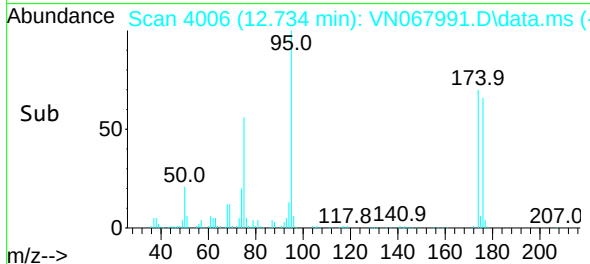
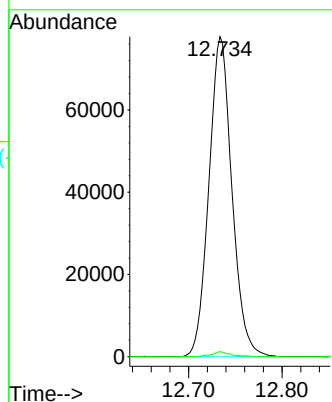
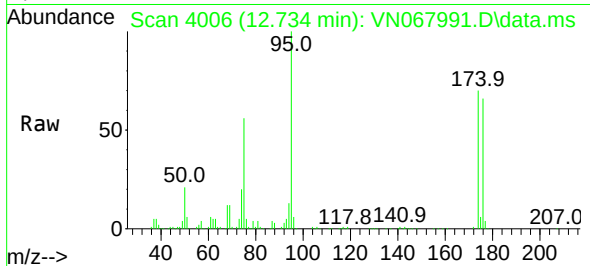




#76
1,2,3-Trichloropropane
Concen: 32.202 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.150 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

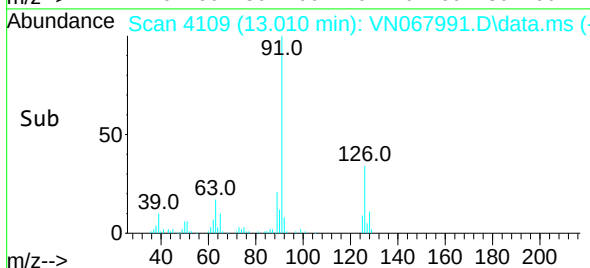
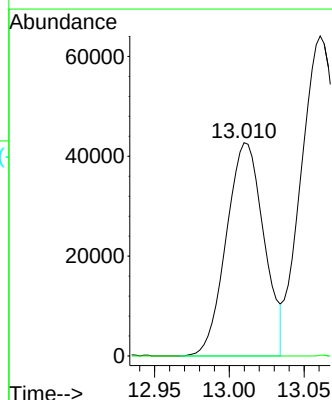
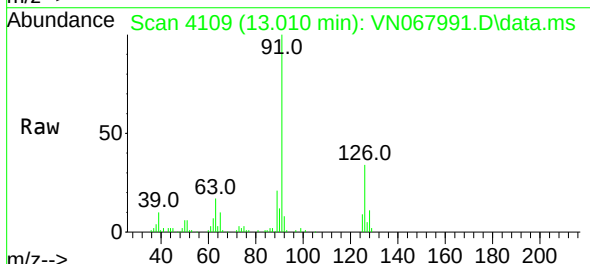
Instrument :
MSVOA_N
ClientSampleId :

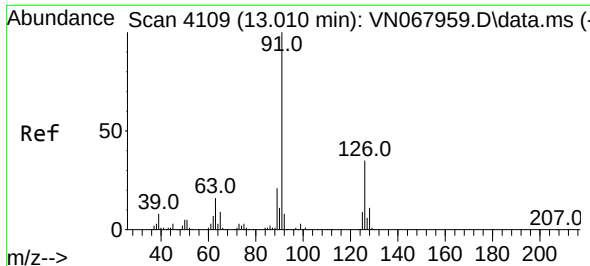
Tgt Ion: 75 Resp: 133338
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



#78
n-propylbenzene
Concen: 3.944 ug/l
RT: 13.010 min Scan# 4109
Delta R.T. 0.086 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

Tgt Ion: 91 Resp: 74862
Ion Ratio Lower Upper
91 100
120 0.0 10.4 31.4#

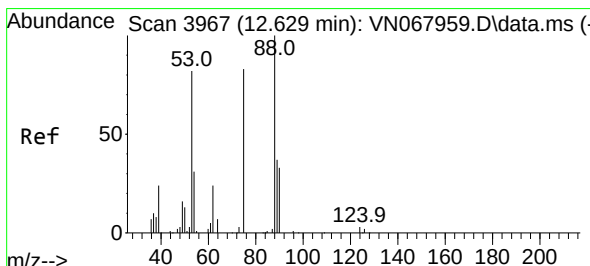
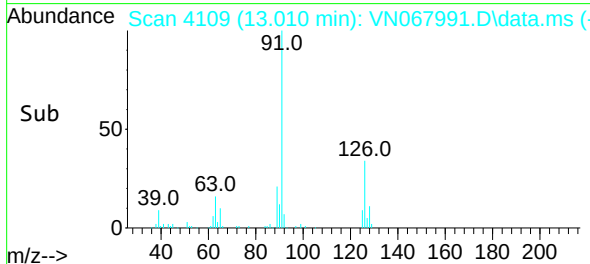
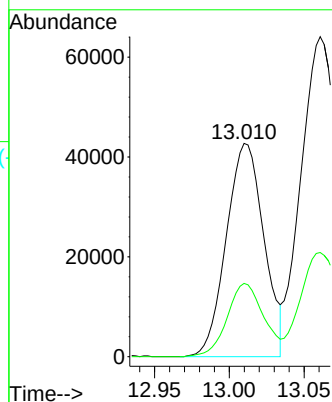
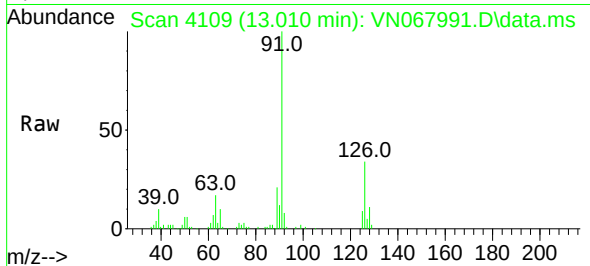




#79
2-Chlorotoluene
Concen: 6.471 ug/l
RT: 13.010 min Scan# 4109
Delta R.T. -0.000 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

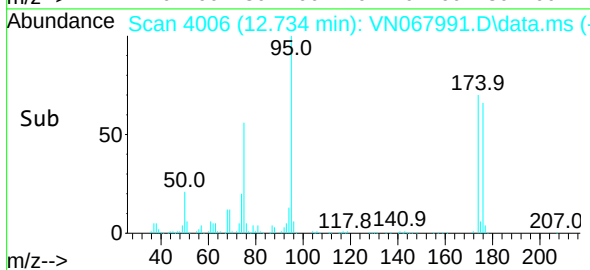
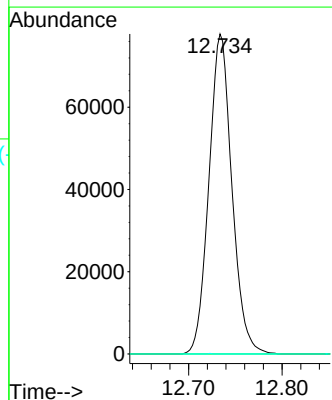
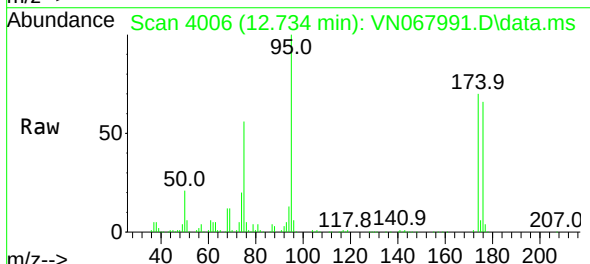
Instrument :
MSVOA_N
ClientSampled :

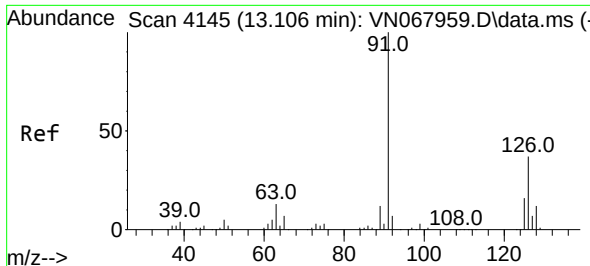
Tgt Ion: 91 Resp: 74862
Ion Ratio Lower Upper
91 100
126 33.3 14.5 43.5



#81
trans-1,4-Dichloro-2-butene
Concen: 86.513 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.105 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

Tgt Ion: 75 Resp: 133338
Ion Ratio Lower Upper
75 100
53 0.0 87.6 131.4#
89 0.0 37.8 56.8#

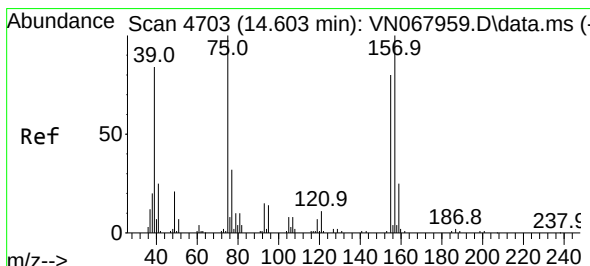
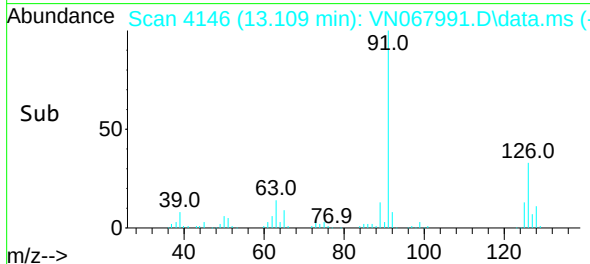
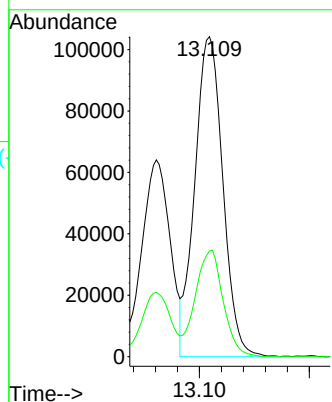
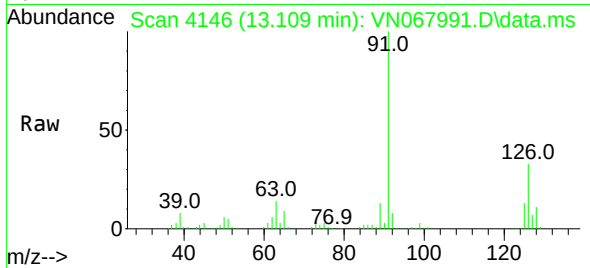




#82
4-Chlorotoluene
Concen: 15.895 ug/l
RT: 13.109 min Scan# 4146
Delta R.T. 0.003 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

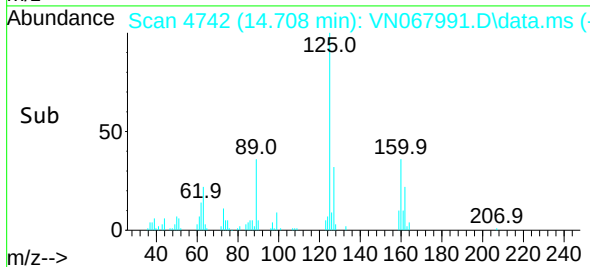
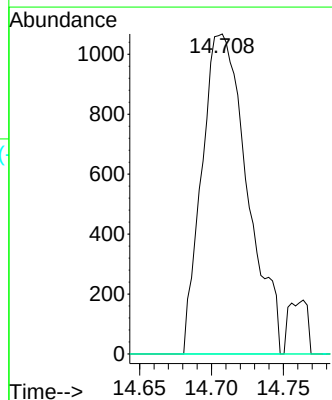
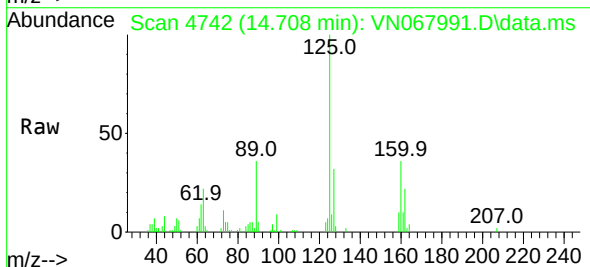
Instrument :
MSVOA_N
ClientSampled :

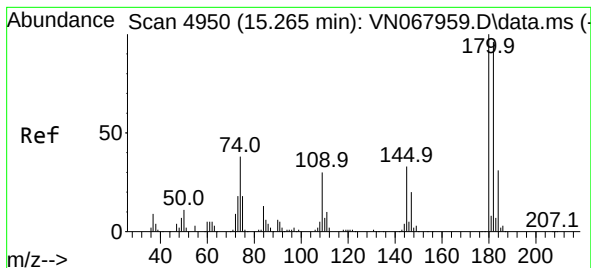
Tgt Ion: 91 Resp: 184621
Ion Ratio Lower Upper
91 100
126 33.3 14.8 44.4



#92
1,2-Dibromo-3-Chloropropane
Concen: 2.888 ug/l
RT: 14.708 min Scan# 4742
Delta R.T. 0.105 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

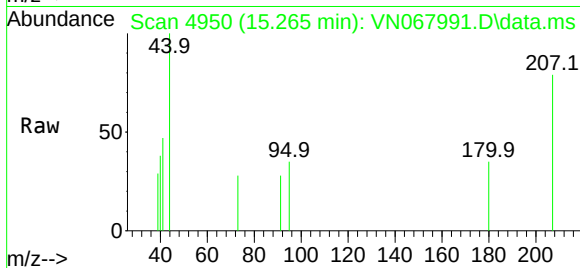
Tgt Ion: 75 Resp: 2344
Ion Ratio Lower Upper
75 100
155 0.0 29.8 89.5#
157 0.0 37.6 112.8#



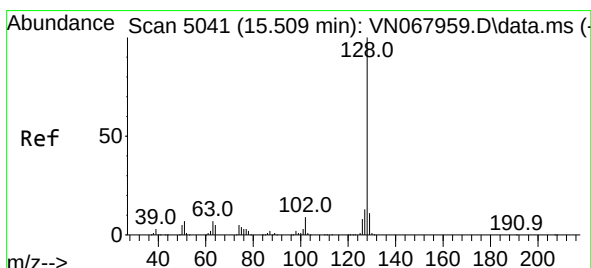
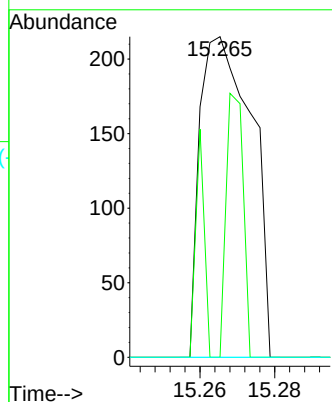
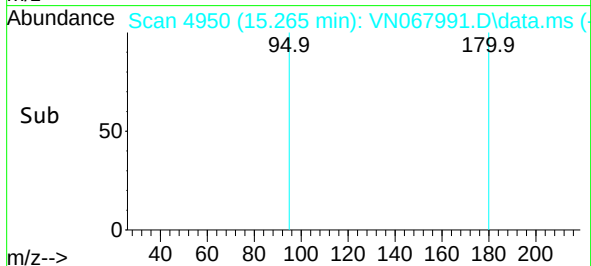


#93
1,2,4-Trichlorobenzene
Concen: 2.532 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03

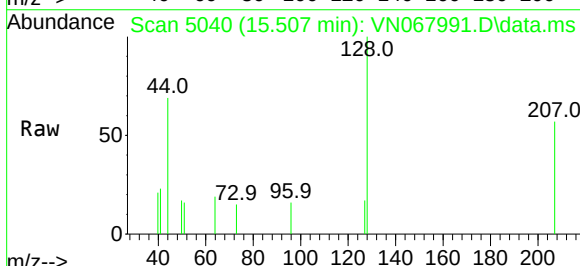
Instrument :
MSVOA_N
ClientSampled :



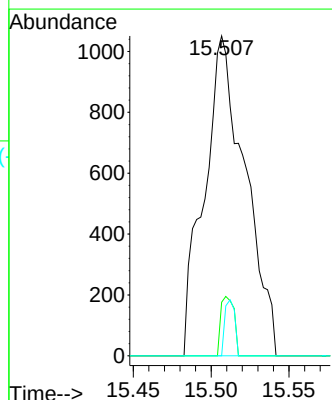
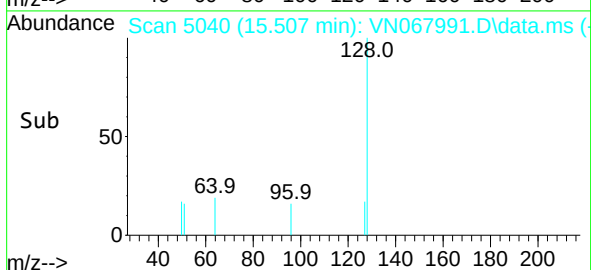
Tgt Ion:180 Resp: 206
Ion Ratio Lower Upper
180 100
182 27.2 47.5 142.5#
145 0.0 17.2 51.6#

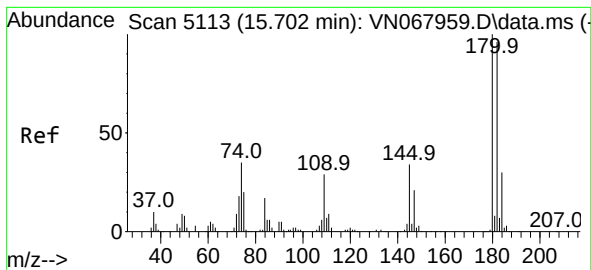


#95
Naphthalene
Concen: 3.330 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. -0.002 min
Lab File: VN067991.D
Acq: 3 Aug 2021 19:03



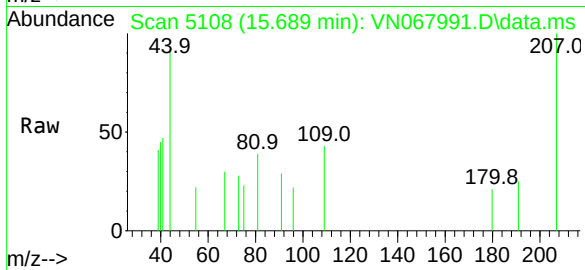
Tgt Ion:128 Resp: 1921
Ion Ratio Lower Upper
128 100
127 5.9 10.6 15.8#
129 4.2 8.6 12.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.375 ug/l
 RT: 15.689 min Scan# 5108
 Delta R.T. -0.013 min
 Lab File: VN067991.D
 Acq: 3 Aug 2021 19:03

Instrument :
 MSVOA_N
 ClientSampled :



Tgt Ion:180 Resp: 24
 Ion Ratio Lower Upper
 180 100
 182 125.0 47.8 143.3
 145 0.0 18.2 54.6#

