

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072121\
 Data File : VN067848.D
 Acq On : 21 Jul 2021 19:06
 Operator : JC/MD
 Sample : M3089-20
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 22 02:14:43 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N070721W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 07 16:18:53 2021
 Response via : Initial Calibration

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

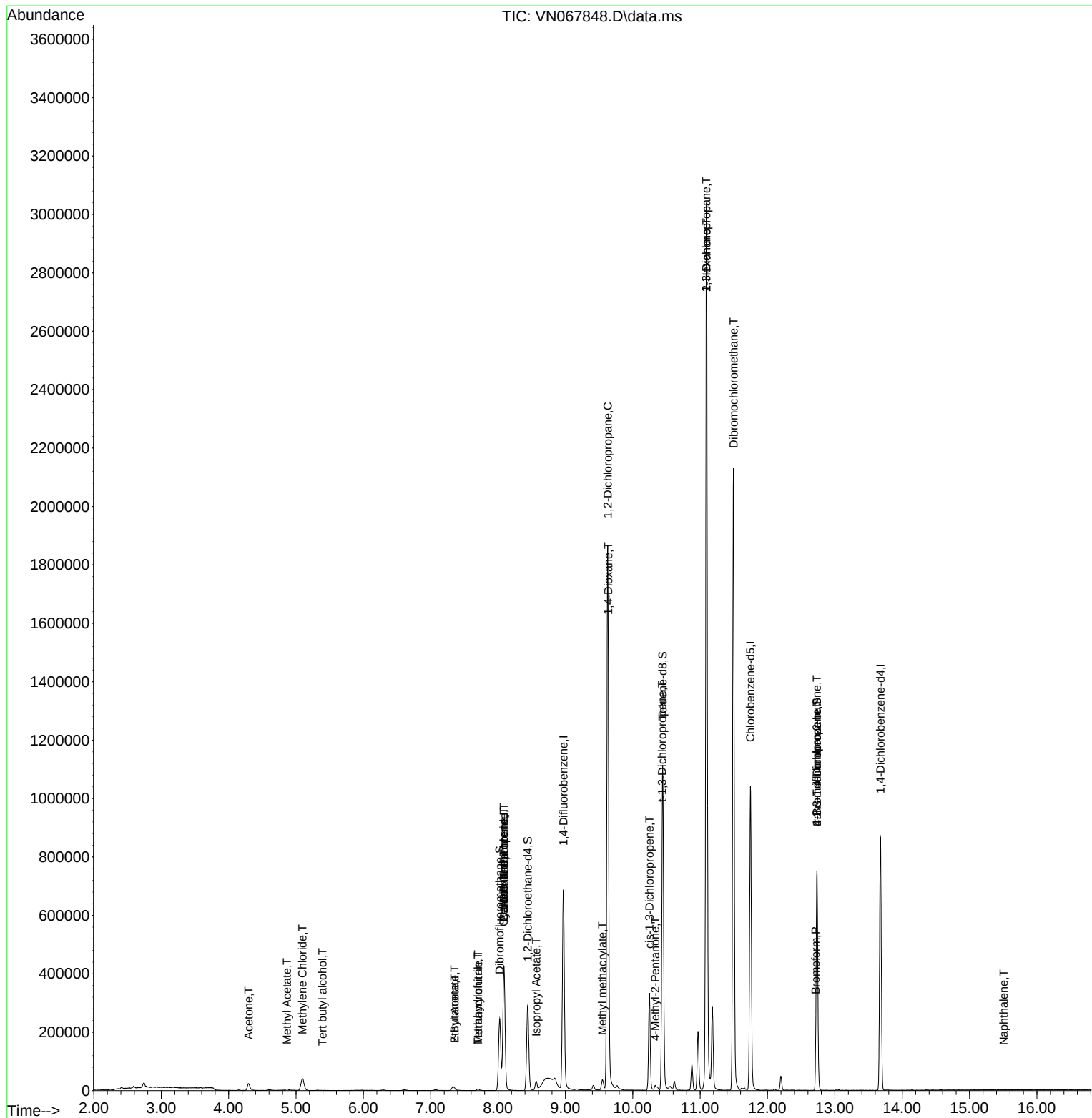
Internal Standards						
1) Pentafluorobenzene	8.088	168	305807	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	595460	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	602928	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	225585	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	246405	53.315	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 106.640%			
35) Dibromofluoromethane	8.024	113	179560	49.911	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 99.820%			
50) Toluene-d8	10.443	98	772021	51.267	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 102.540%			
62) 4-Bromofluorobenzene	12.734	95	267312	50.250	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 100.500%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.832	94	95	Below Cal	#	79
6) Chloroethane	3.017	64	56	Below Cal	#	1
11) Tert butyl alcohol	5.393	59	318	0.479	ug/l #	71
13) Acrolein	4.031	56	56	Below Cal	#	14
16) Acetone	4.296	43	43278	29.760	ug/l	97
18) Methyl Acetate	4.867	43	8174	2.001	ug/l	97
20) Methylene Chloride	5.095	84	17393	4.490	ug/l	91
25) 2-Butanone	7.354	43	9328	3.863	ug/l #	89
29) Tetrahydrofuran	7.699	42	4415	2.780	ug/l	93
31) Cyclohexane	8.083	56	7853	1.212	ug/l #	33
36) 1,1-Dichloropropene	8.088	75	28062	5.073	ug/l #	51
37) Ethyl Acetate	7.354	43	9328	1.741	ug/l #	69
38) Carbon Tetrachloride	8.086	117	34071	6.245	ug/l #	17
41) Methacrylonitrile	7.705	41	2735	0.993	ug/l #	38
43) Isopropyl Acetate	8.568	43	35420	3.757	ug/l #	92
45) 1,2-Dichloropropane	9.630	63	1980	0.472	ug/l #	44
48) Methyl methacrylate	9.547	41	9331	2.238	ug/l #	12
49) 1,4-Dioxane	9.636	88	77	33.032	ug/l #	1
51) 4-Methyl-2-Pentanone	10.333	43	8072	1.394	ug/l #	71
53) t-1,3-Dichloropropene	10.435	75	131	1.763	ug/l	92
54) cis-1,3-Dichloropropene	10.247	75	56733	8.773	ug/l #	60
57) 1,3-Dichloropropane	11.092	76	32160	4.512	ug/l #	43
59) 2-Hexanone	11.095	43	474969	117.489	ug/l #	54
60) Dibromochloromethane	11.497	129	214	2.397	ug/l #	11
71) Bromoform	12.715	173	165	3.216	ug/l #	1
76) 1,2,3-Trichloropropane	12.734	75	147004	31.910	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.734	75	147004	102.881	ug/l #	6
95) Naphthalene	15.507	128	713	3.073	ug/l #	69

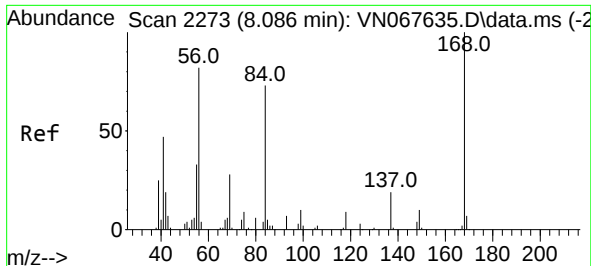
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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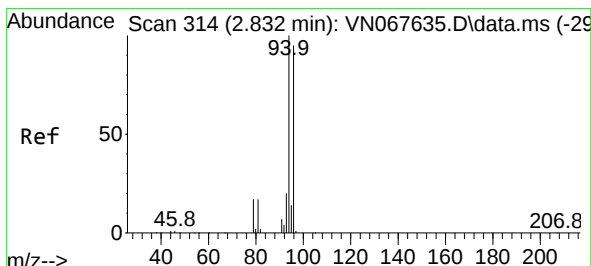
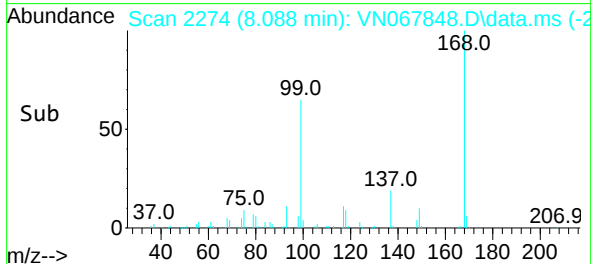
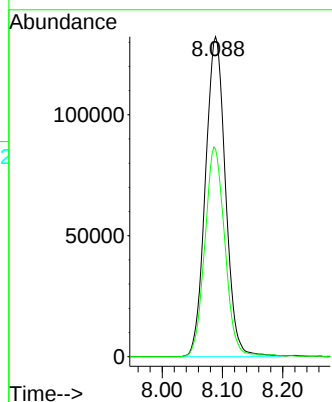
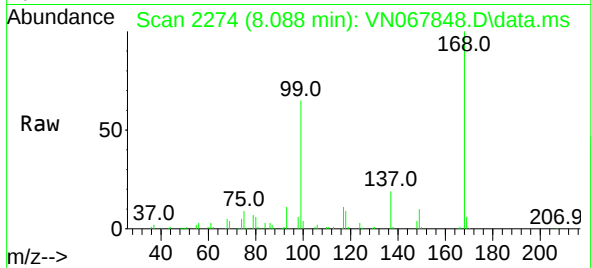




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.002 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

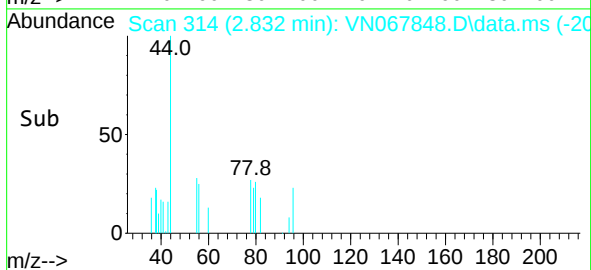
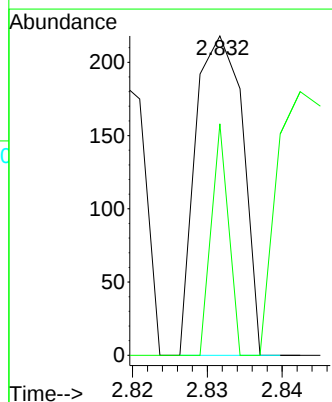
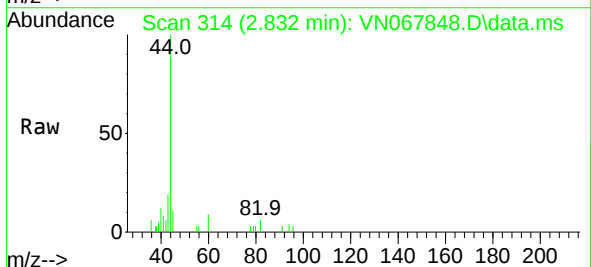
Instrument :
MSVOA_N
ClientSampleId :

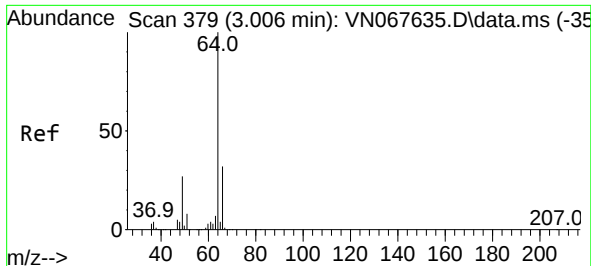
Tgt Ion:168 Resp: 305807
Ion Ratio Lower Upper
168 100
99 64.8 62.9 94.3



#5
Bromomethane
Concen: Below Cal
RT: 2.832 min Scan# 314
Delta R.T. -0.000 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

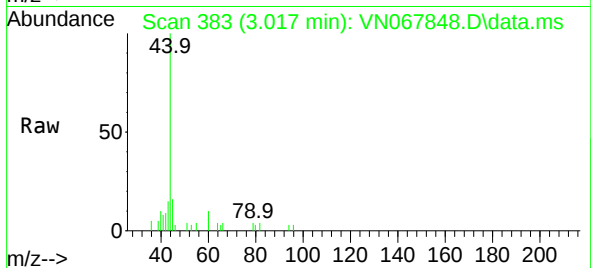
Tgt Ion: 94 Resp: 95
Ion Ratio Lower Upper
94 100
96 72.5 73.7 110.5#



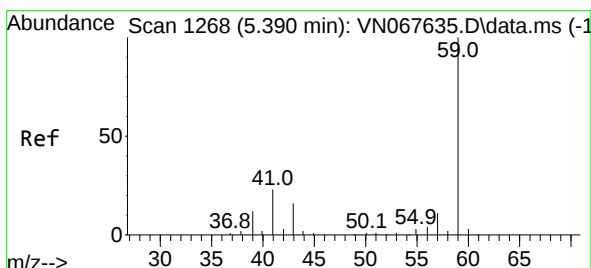
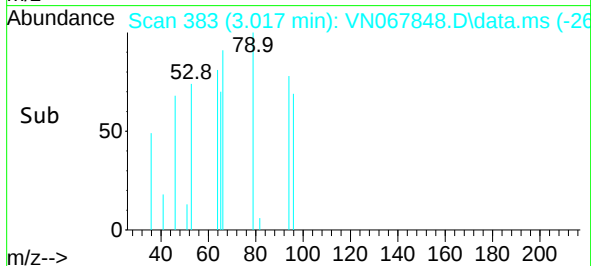
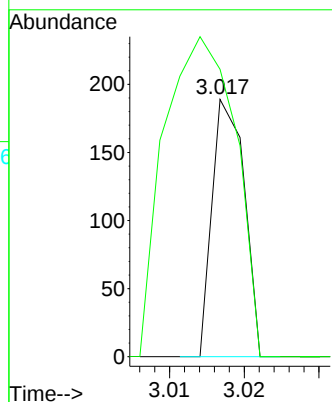


#6
Chloroethane
Concen: Below Cal
RT: 3.017 min Scan# 383
Delta R.T. 0.011 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

Instrument :
MSVOA_N
ClientSampled :

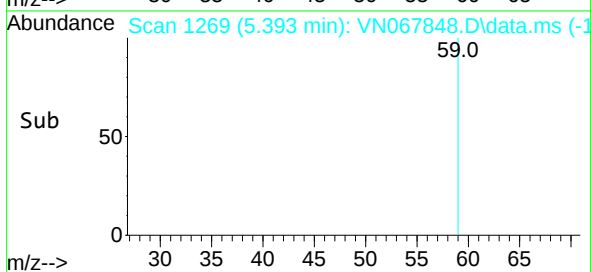
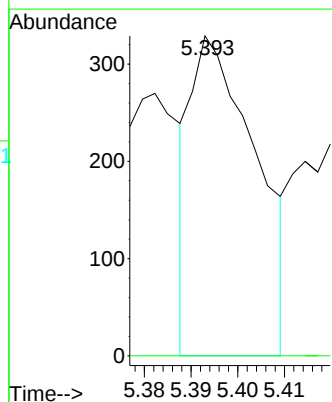
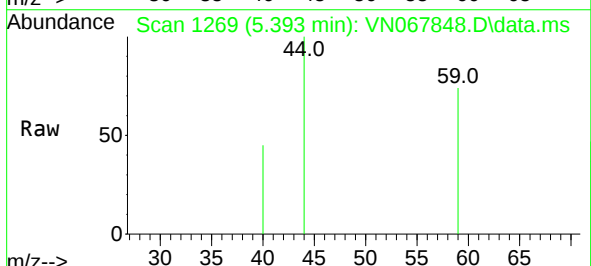


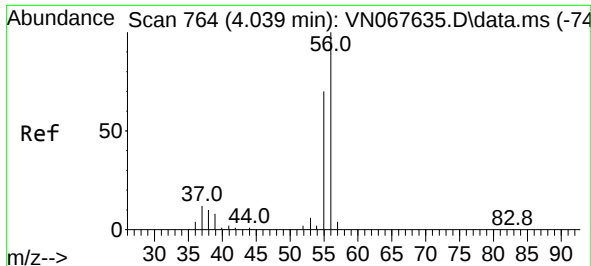
Tgt Ion: 64 Resp: 56
Ion Ratio Lower Upper
64 100
66 111.6 24.7 37.1#



#11
Tert butyl alcohol
Concen: 0.479 ug/l
RT: 5.393 min Scan# 1269
Delta R.T. 0.003 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

Tgt Ion: 59 Resp: 318
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

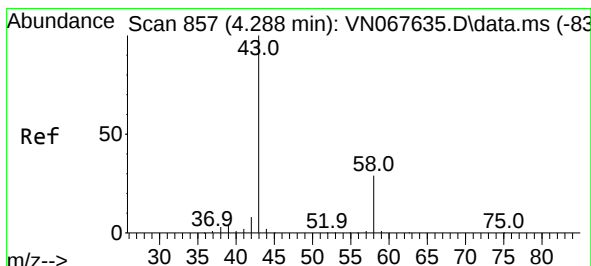
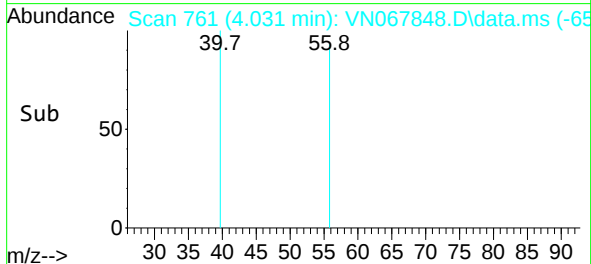
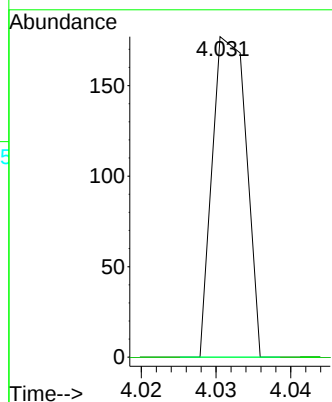
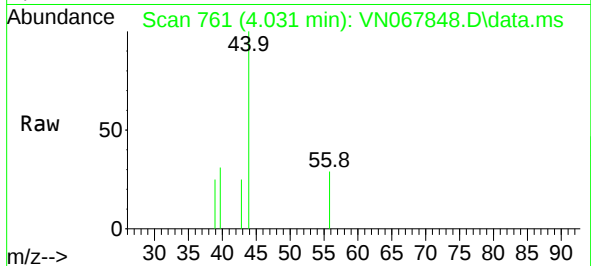




#13
Acrolein
Concen: Below Cal
RT: 4.031 min Scan# 761
Delta R.T. -0.008 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

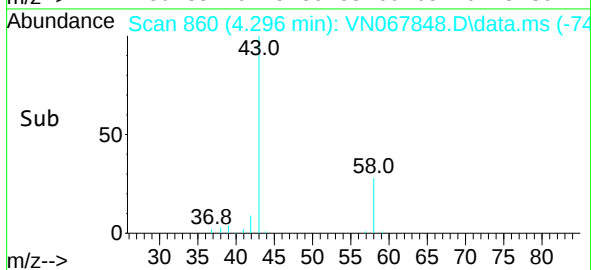
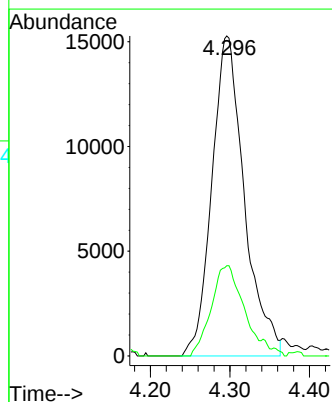
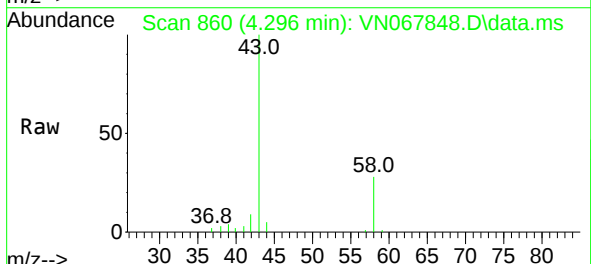
Instrument :
MSVOA_N
ClientSampled :

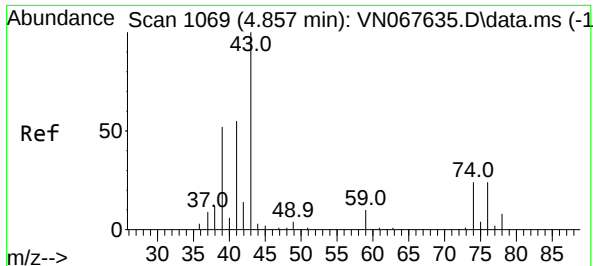
Tgt Ion: 56 Resp: 56
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.0#



#16
Acetone
Concen: 29.760 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.008 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

Tgt Ion: 43 Resp: 43278
Ion Ratio Lower Upper
43 100
58 28.2 21.2 31.8





#18

Methyl Acetate

Concen: 2.001 ug/l

RT: 4.867 min Scan# 1073

Delta R.T. 0.010 min

Lab File: VN067848.D

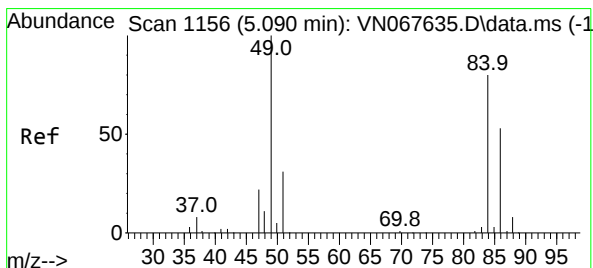
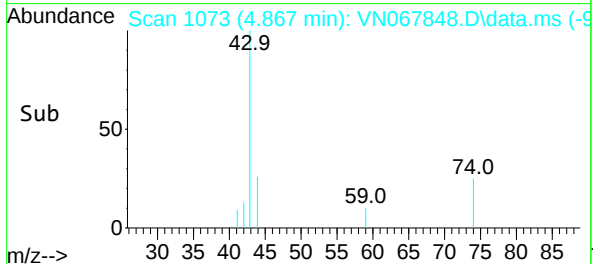
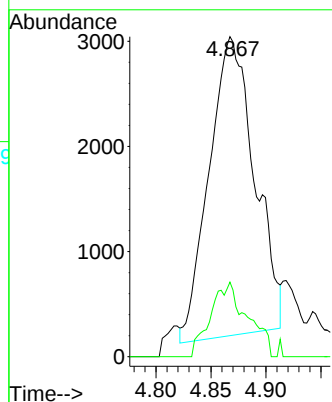
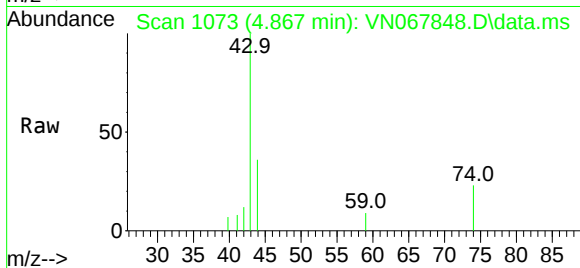
Acq: 21 Jul 2021 19:06

Tgt Ion: 43 Resp: 8174

Ion Ratio Lower Upper

43 100

74 20.3 17.4 26.0



#20

Methylene Chloride

Concen: 4.490 ug/l

RT: 5.095 min Scan# 1158

Delta R.T. 0.005 min

Lab File: VN067848.D

Acq: 21 Jul 2021 19:06

Tgt Ion: 84 Resp: 17393

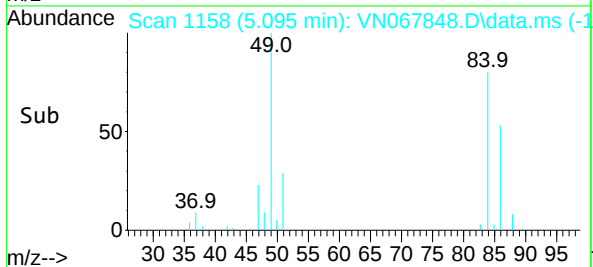
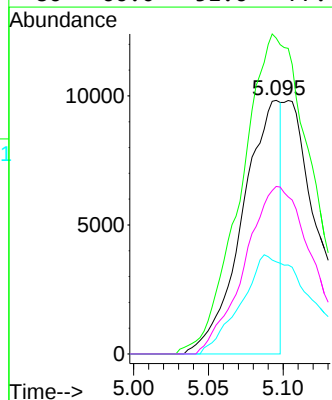
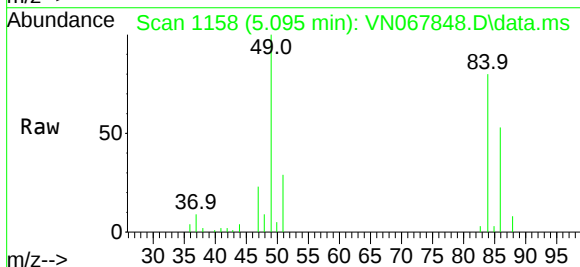
Ion Ratio Lower Upper

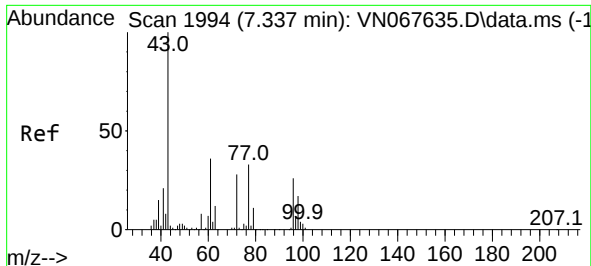
84 100

49 122.6 110.9 166.3

51 36.3 32.6 49.0

86 66.0 51.6 77.4

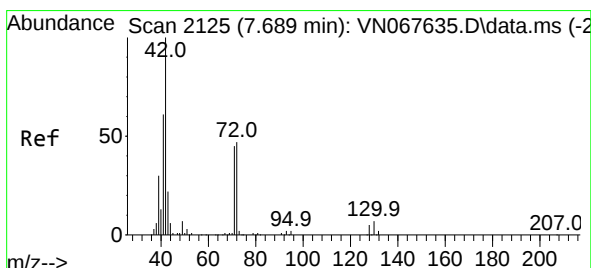
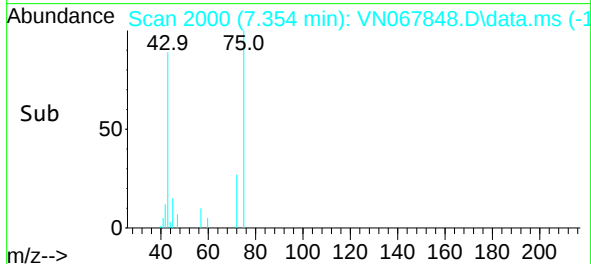
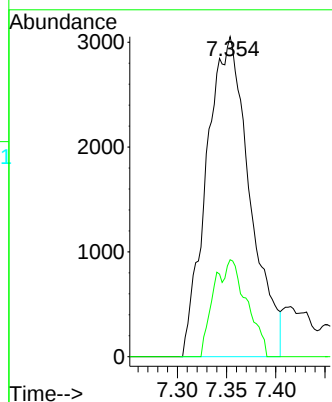
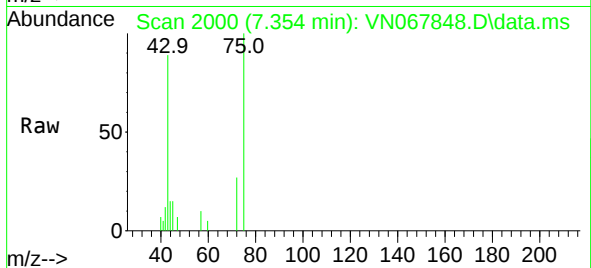




#25
2-Butanone
Concen: 3.863 ug/l
RT: 7.354 min Scan# 2000
Delta R.T. 0.017 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

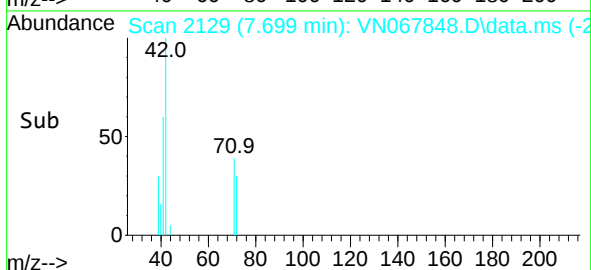
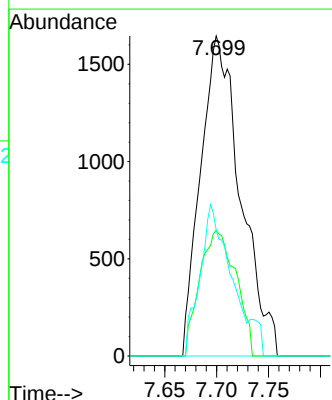
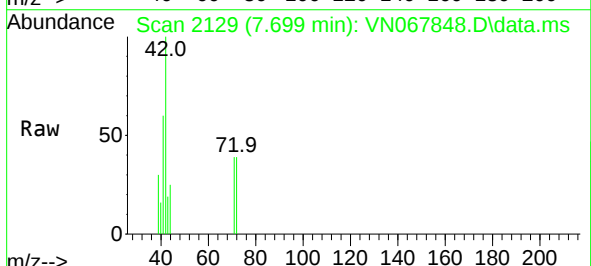
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ClientSampled :

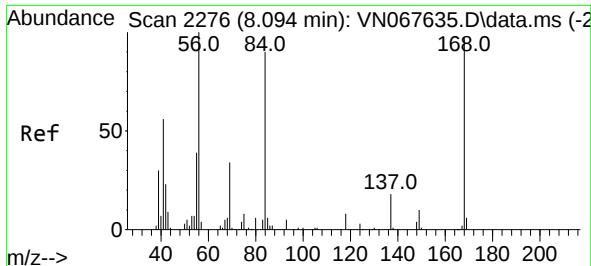
Tgt Ion: 43 Resp: 9328
Ion Ratio Lower Upper
43 100
72 30.3 19.7 29.5#



#29
Tetrahydrofuran
Concen: 2.780 ug/l
RT: 7.699 min Scan# 2129
Delta R.T. 0.010 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

Tgt Ion: 42 Resp: 4415
Ion Ratio Lower Upper
42 100
72 35.4 32.8 49.2
71 35.8 31.2 46.8

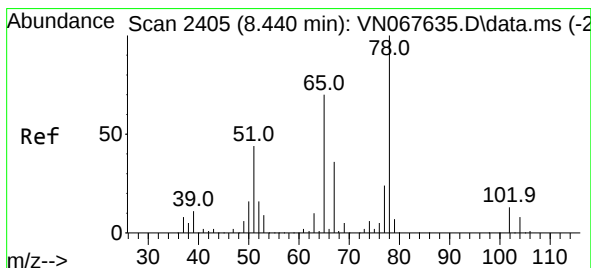
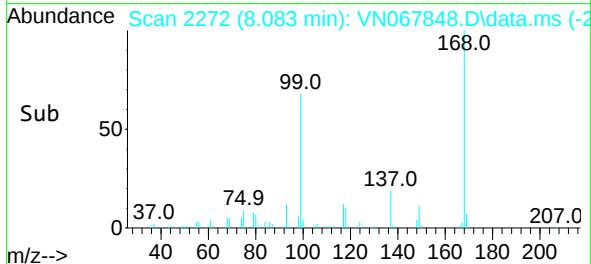
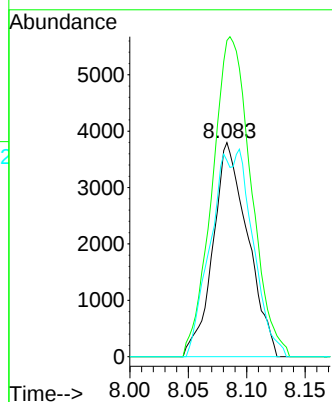
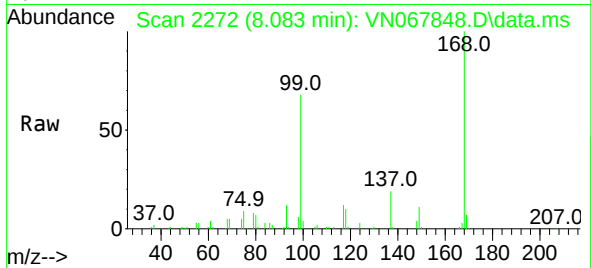




#31
Cyclohexane
Concen: 1.212 ug/l
RT: 8.083 min Scan# 2272
Delta R.T. -0.011 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

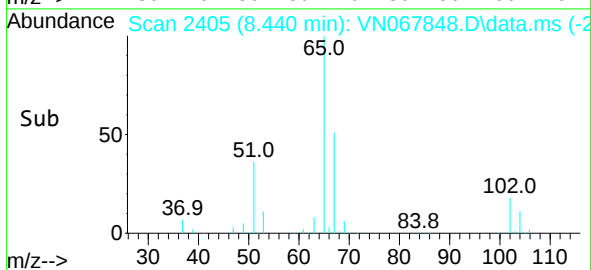
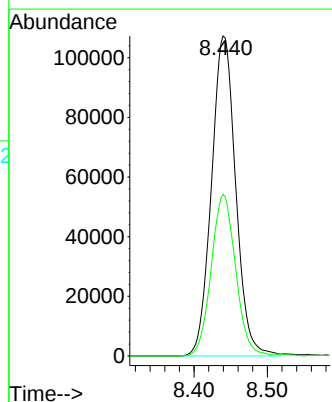
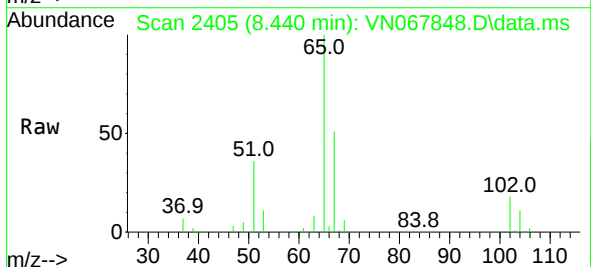
Instrument :
MSVOA_N
ClientSampleId :

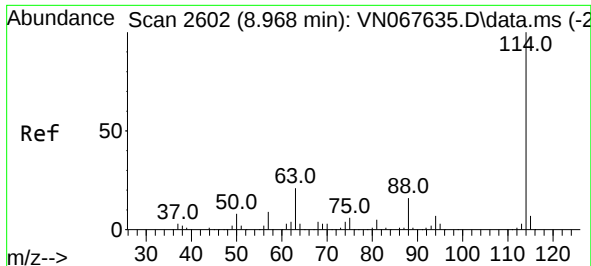
Tgt Ion: 56 Resp: 7853
Ion Ratio Lower Upper
56 100
69 147.7 27.3 40.9#
84 91.6 64.9 97.3



#33
1,2-Dichloroethane-d4
Concen: 53.315 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

Tgt Ion: 65 Resp: 246405
Ion Ratio Lower Upper
65 100
67 50.7 0.0 98.6

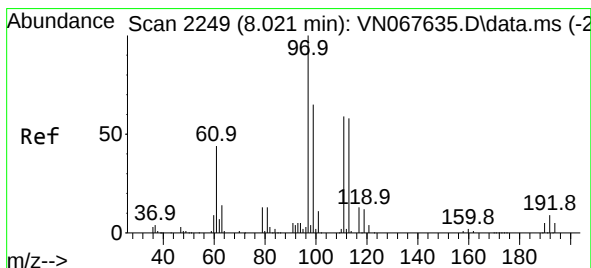
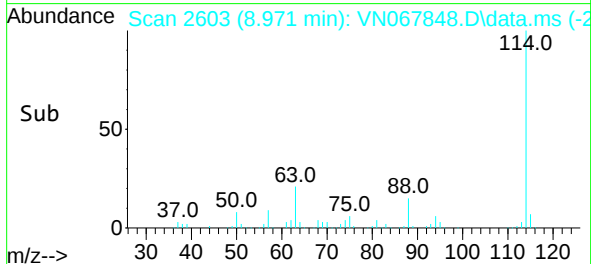
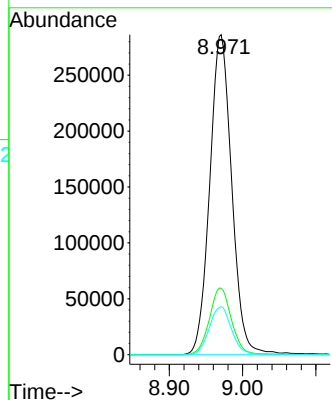
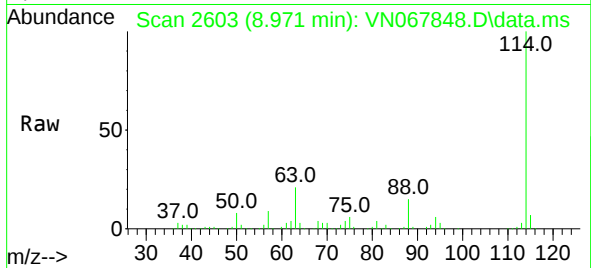




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.003 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

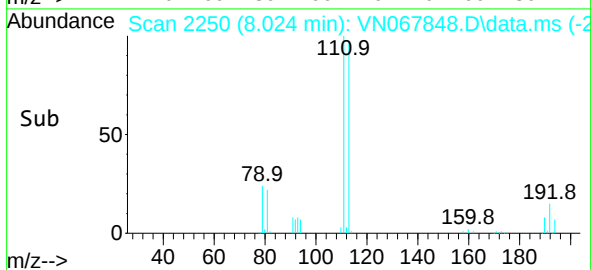
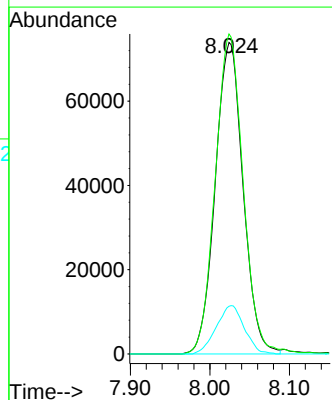
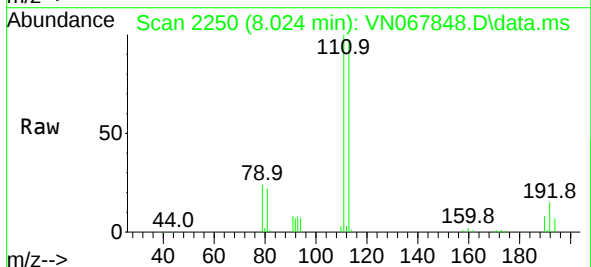
Instrument :
MSVOA_N
ClientSampled :

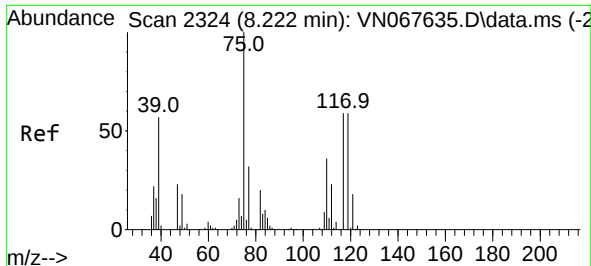
Tgt Ion:114 Resp: 595460
Ion Ratio Lower Upper
114 100
63 20.8 0.0 49.0
88 15.0 0.0 36.6



#35
Dibromofluoromethane
Concen: 49.911 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

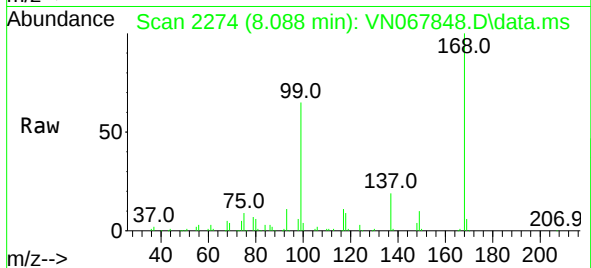
Tgt Ion:113 Resp: 179560
Ion Ratio Lower Upper
113 100
111 103.2 83.8 125.8
192 15.7 13.4 20.0



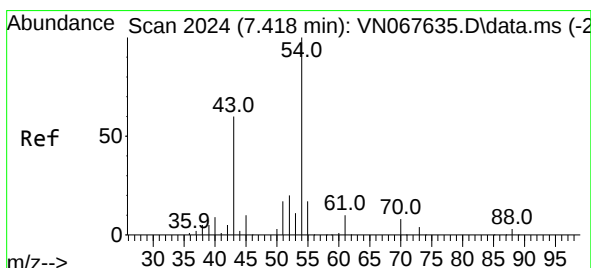
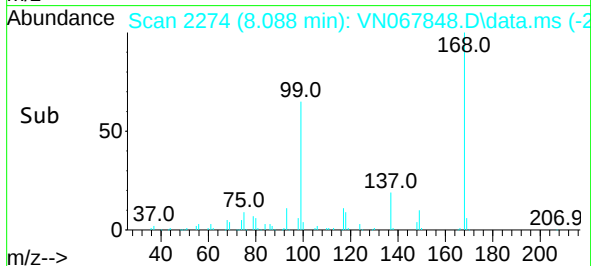
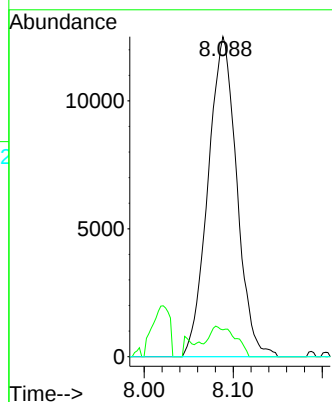


#36
1,1-Dichloropropene
Concen: 5.073 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.134 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

Instrument :
MSVOA_N
ClientSampleId :

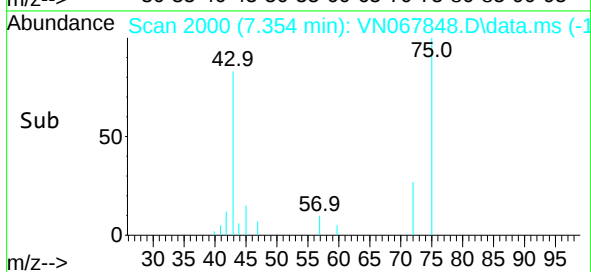
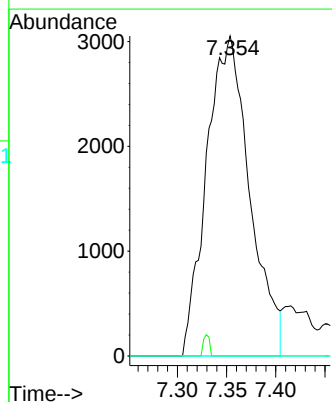
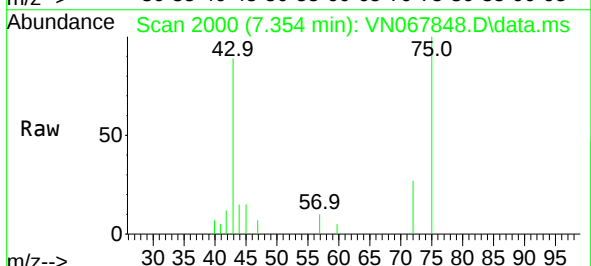


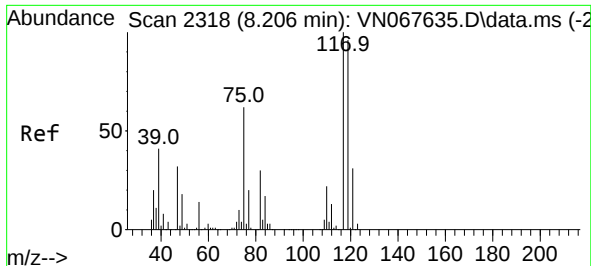
Tgt Ion: 75 Resp: 28062
Ion Ratio Lower Upper
75 100
110 8.6 15.7 47.0#
77 0.0 24.6 37.0#



#37
Ethyl Acetate
Concen: 1.741 ug/l
RT: 7.354 min Scan# 2000
Delta R.T. -0.064 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

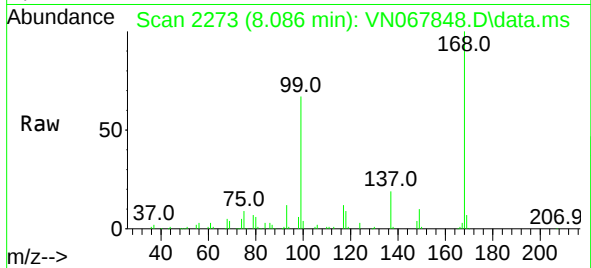
Tgt Ion: 43 Resp: 9328
Ion Ratio Lower Upper
43 100
61 0.0 10.6 16.0#
70 0.0 8.1 12.1#



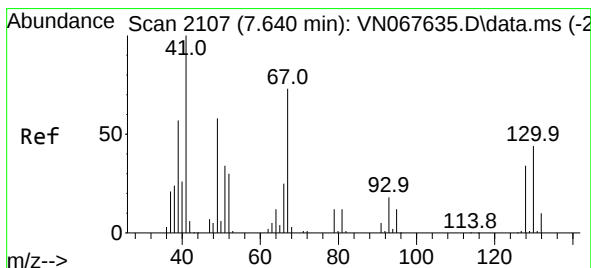
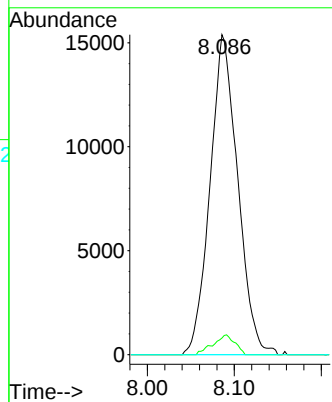
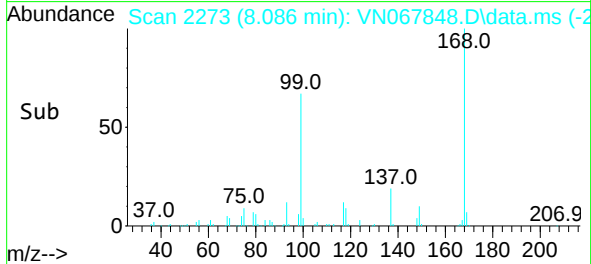


#38
Carbon Tetrachloride
Concen: 6.245 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.120 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

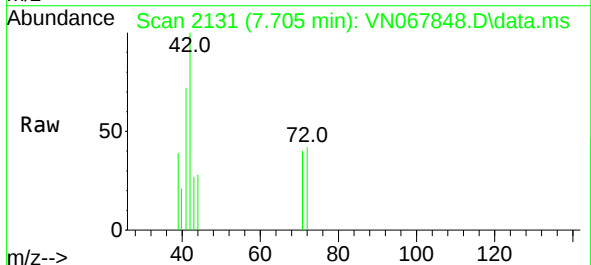
Instrument :
MSVOA_N
ClientSampleId :



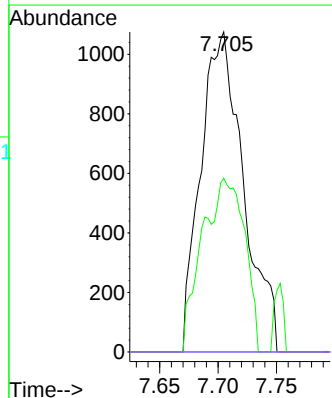
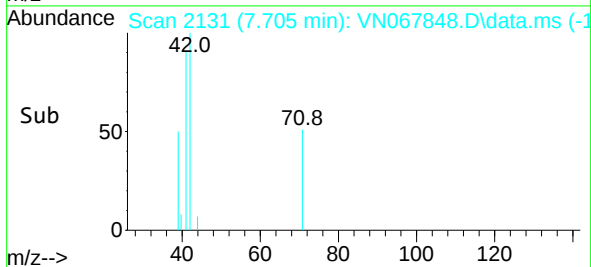
Tgt Ion:117 Resp: 34071
Ion Ratio Lower Upper
117 100
119 5.2 75.4 113.2#
121 0.0 23.5 35.3#

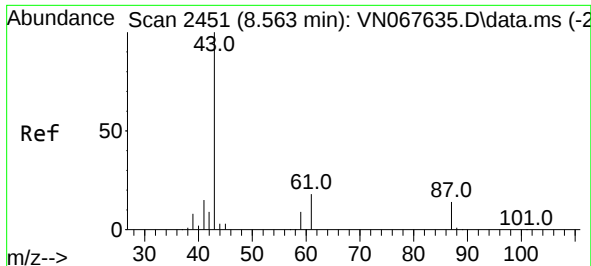


#41
Methacrylonitrile
Concen: 0.993 ug/l
RT: 7.705 min Scan# 2131
Delta R.T. 0.065 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06



Tgt Ion: 41 Resp: 2735
Ion Ratio Lower Upper
41 100
39 34.4 47.6 71.4#
67 0.0 57.7 86.5#
52 0.0 26.2 39.4#

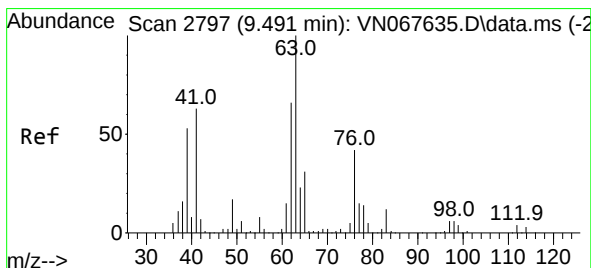
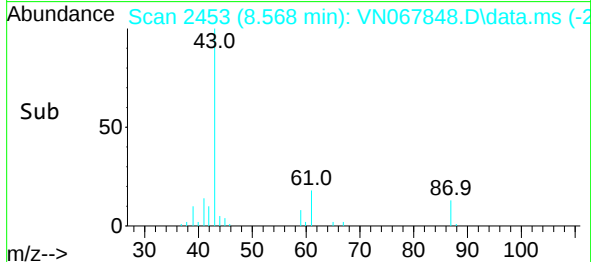
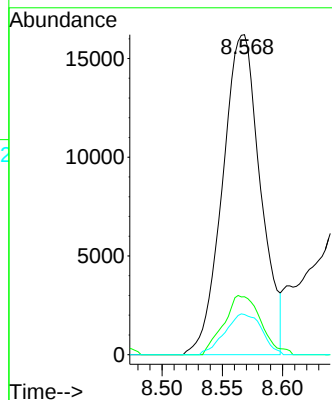
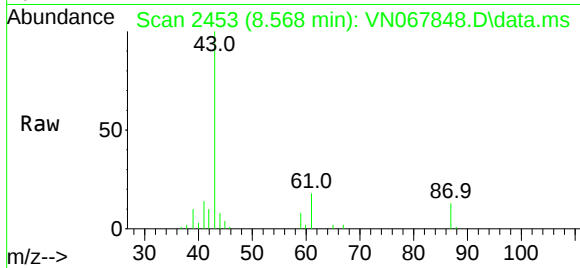




#43
Isopropyl Acetate
Concen: 3.757 ug/l
RT: 8.568 min Scan# 2453
Delta R.T. 0.005 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

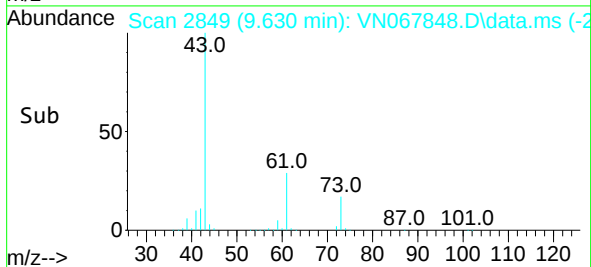
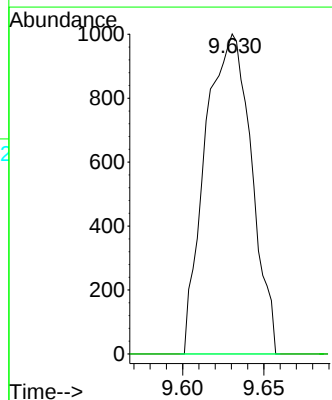
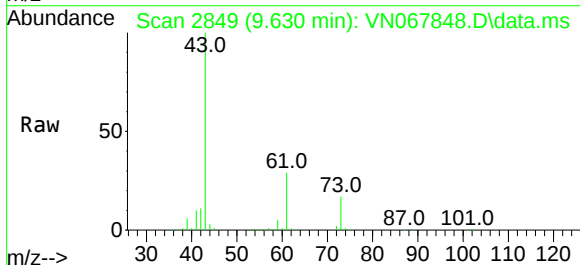
Instrument :
MSVOA_N
ClientSampled :

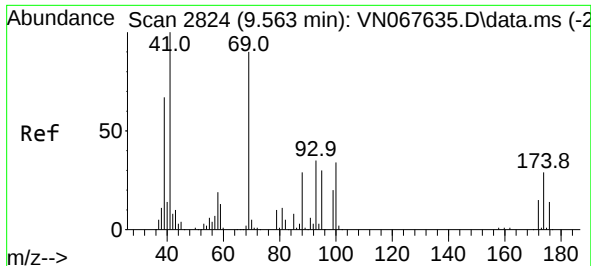
Tgt Ion: 43 Resp: 35420
Ion Ratio Lower Upper
43 100
61 18.1 19.0 28.4#
87 12.4 9.5 14.3



#45
1,2-Dichloropropane
Concen: 0.472 ug/l
RT: 9.630 min Scan# 2849
Delta R.T. 0.139 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

Tgt Ion: 63 Resp: 1980
Ion Ratio Lower Upper
63 100
65 0.0 24.3 36.5#

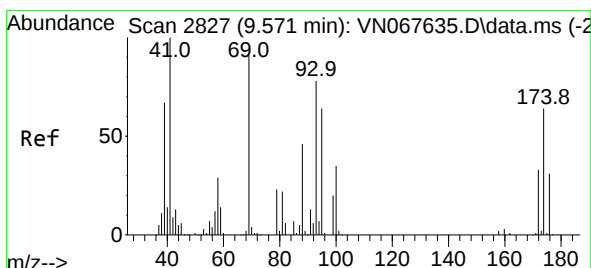
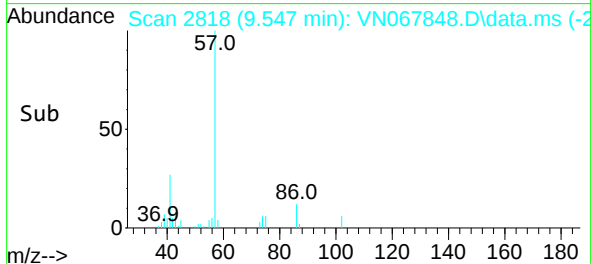
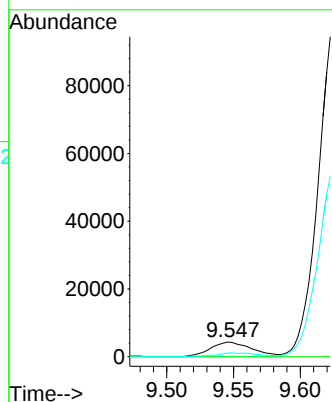
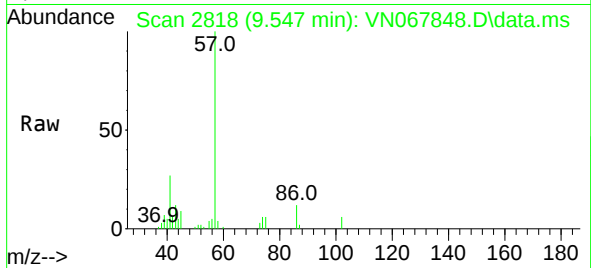




#48
Methyl methacrylate
Concen: 2.238 ug/l
RT: 9.547 min Scan# 2818
Delta R.T. -0.016 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

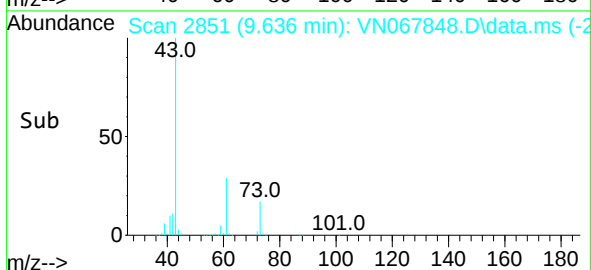
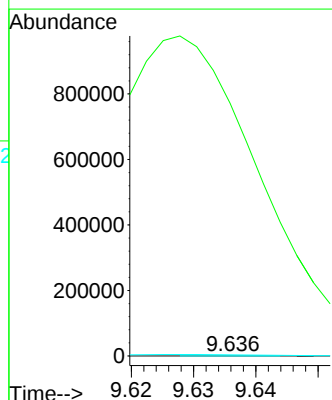
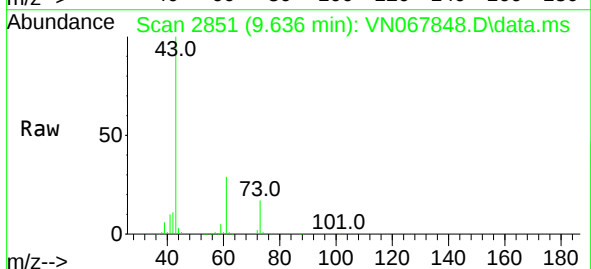
Instrument :
MSVOA_N
ClientSampled :

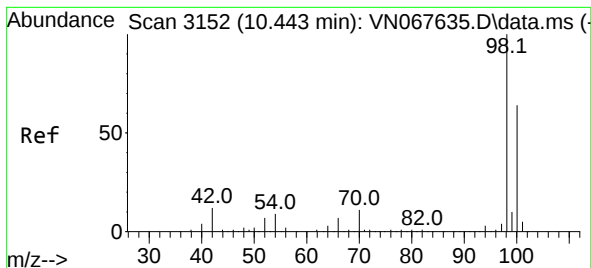
Tgt Ion: 41 Resp: 9331
Ion Ratio Lower Upper
41 100
69 0.0 64.6 96.8#
39 0.0 53.3 79.9#



#49
1,4-Dioxane
Concen: 33.032 ug/l
RT: 9.636 min Scan# 2851
Delta R.T. 0.065 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

Tgt Ion: 88 Resp: 77
Ion Ratio Lower Upper
88 100
43 2408577.9 28.8 43.2#
58 11035.1 60.4 90.6#

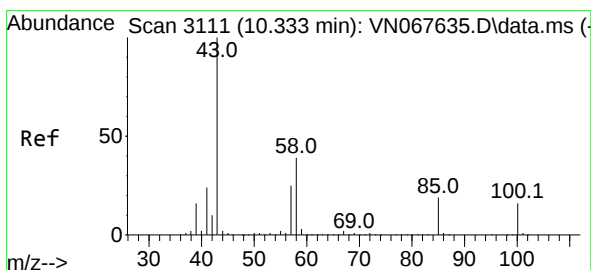
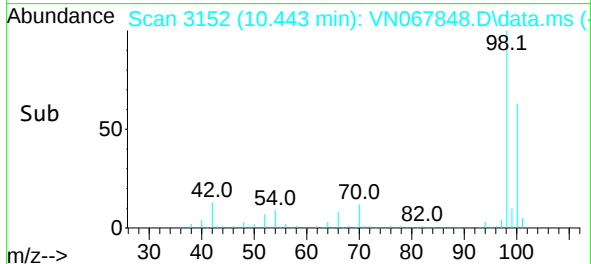
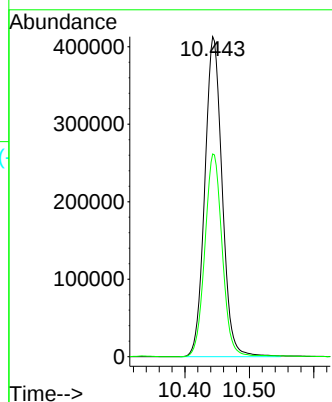
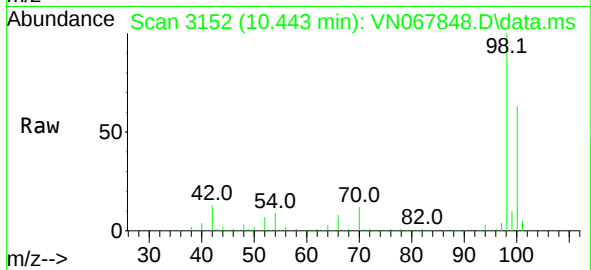




#50
Toluene-d8
Concen: 51.267 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

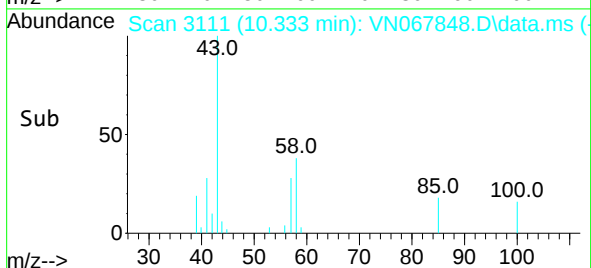
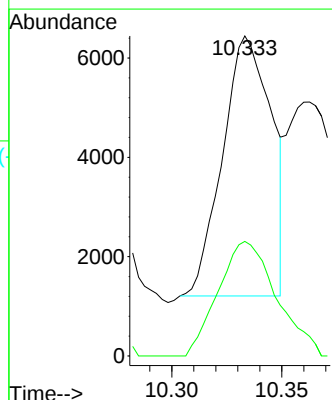
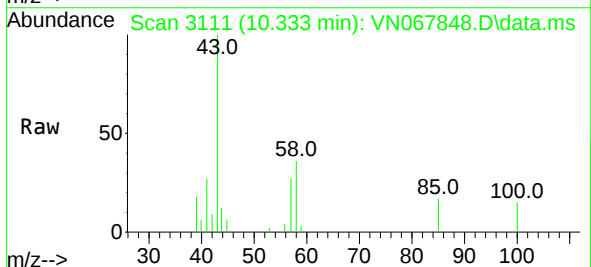
Instrument :
MSVOA_N
ClientSampled :

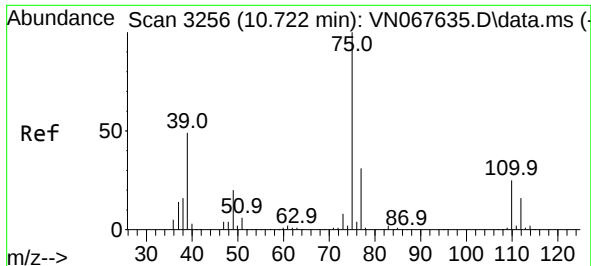
Tgt Ion: 98 Resp: 772021
Ion Ratio Lower Upper
98 100
100 63.1 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 1.394 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.000 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

Tgt Ion: 43 Resp: 8072
Ion Ratio Lower Upper
43 100
58 52.6 28.6 43.0#

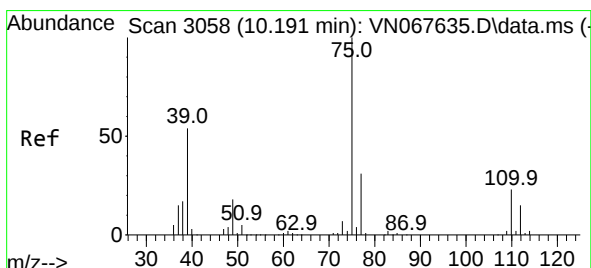
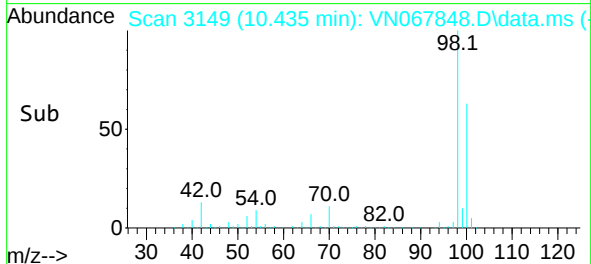
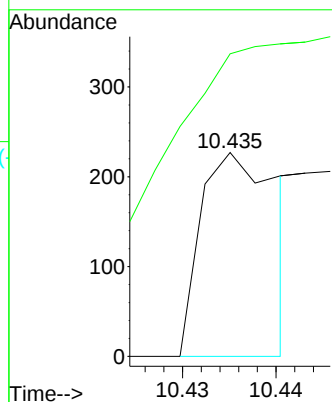
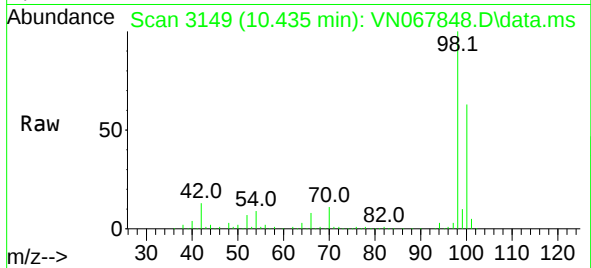




#53
t-1,3-Dichloropropene
Concen: 1.763 ug/l
RT: 10.435 min Scan# 3149
Delta R.T. -0.287 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

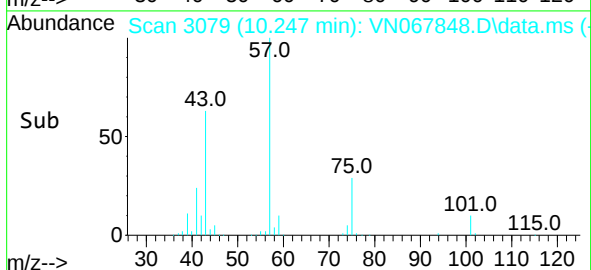
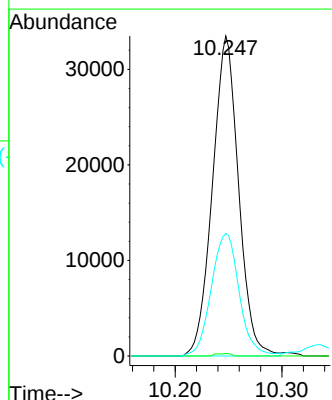
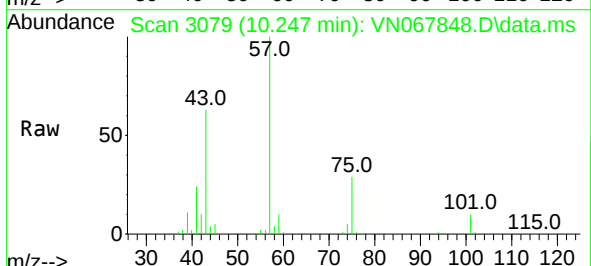
Instrument :
MSVOA_N
ClientSampled :

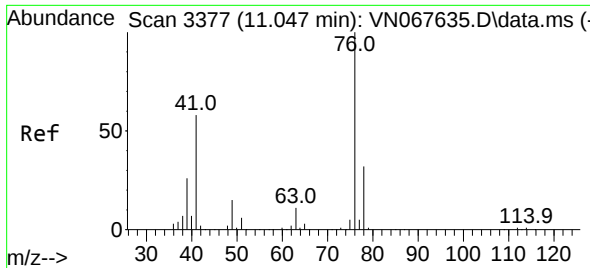
Tgt Ion: 75 Resp: 131
Ion Ratio Lower Upper
75 100
77 35.7 25.1 37.7



#54
cis-1,3-Dichloropropene
Concen: 8.773 ug/l
RT: 10.247 min Scan# 3079
Delta R.T. 0.056 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

Tgt Ion: 75 Resp: 56733
Ion Ratio Lower Upper
75 100
77 0.8 24.6 37.0#
39 38.3 50.7 76.1#

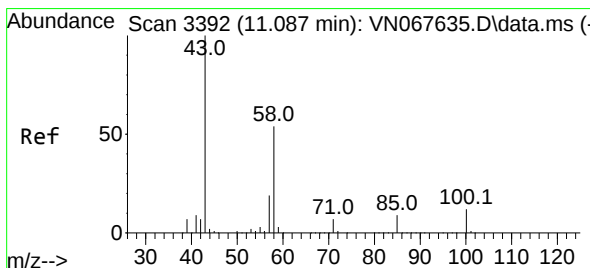
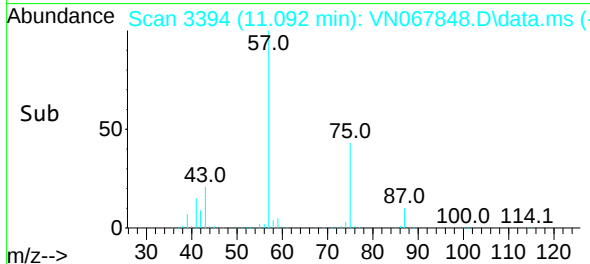
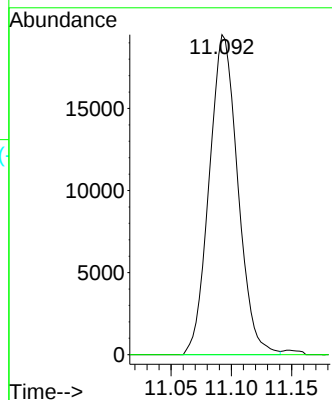
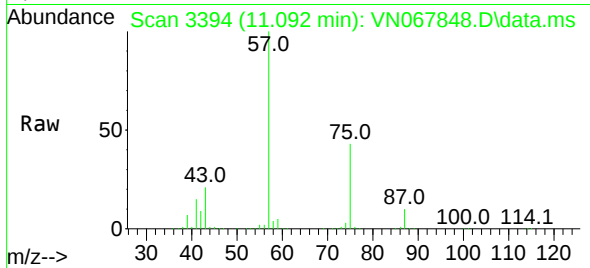




#57
1,3-Dichloropropane
Concen: 4.512 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.045 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

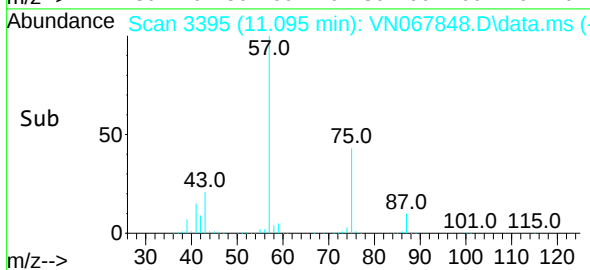
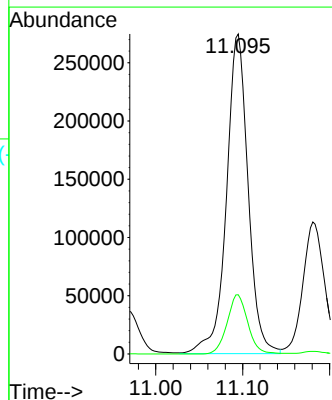
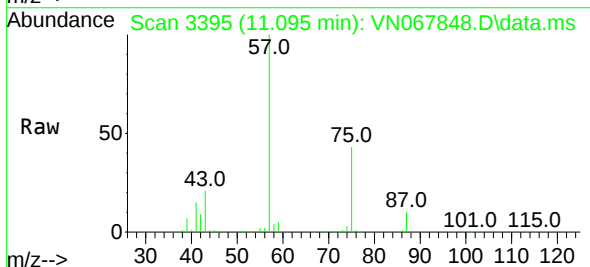
Instrument :
MSVOA_N
ClientSampled :

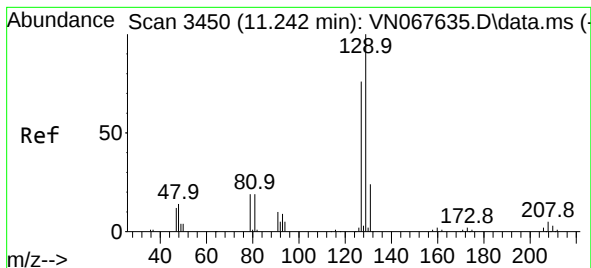
Tgt Ion: 76 Resp: 32160
Ion Ratio Lower Upper
76 100
78 0.0 25.7 38.5#



#59
2-Hexanone
Concen: 117.489 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.008 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

Tgt Ion: 43 Resp: 474969
Ion Ratio Lower Upper
43 100
58 17.7 24.7 74.1#

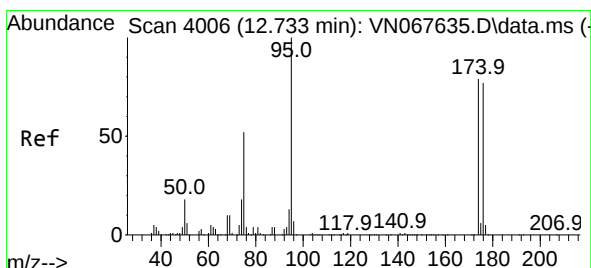
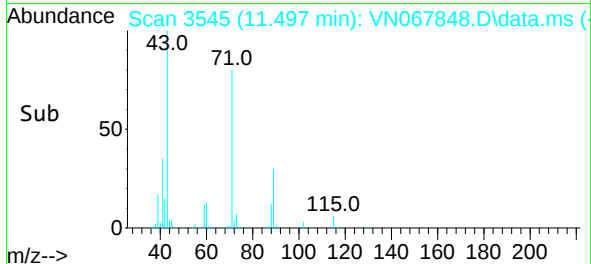
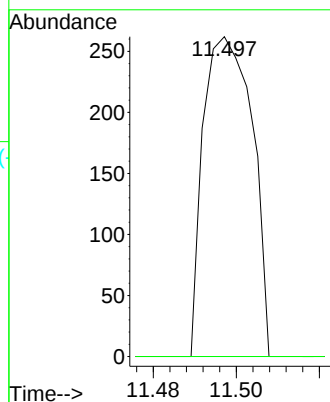
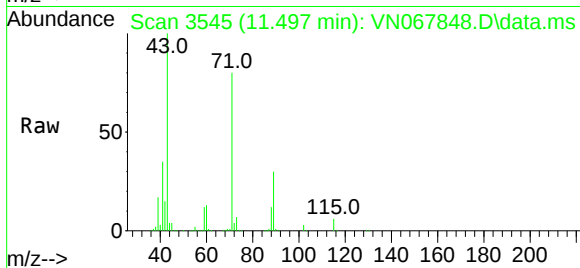




#60
Dibromochloromethane
Concen: 2.397 ug/l
RT: 11.497 min Scan# 3545
Delta R.T. 0.255 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

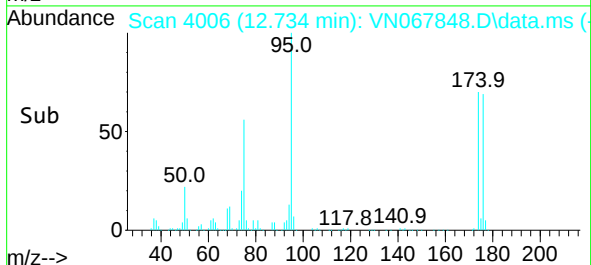
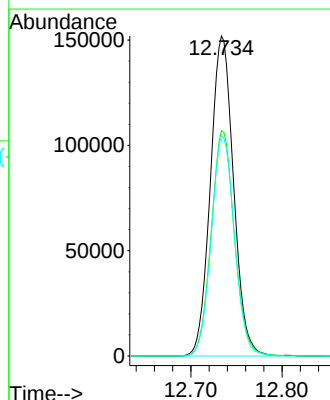
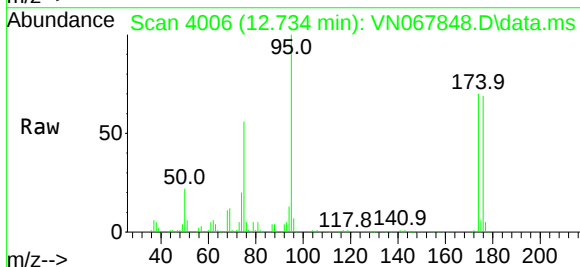
Instrument :
MSVOA_N
ClientSampled :

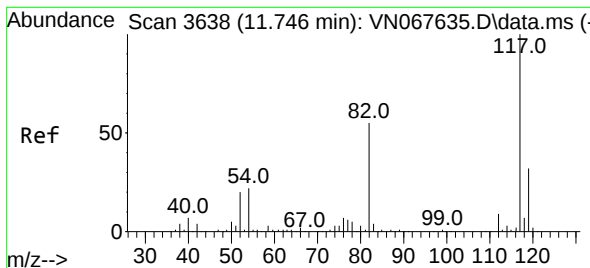
Tgt Ion:129 Resp: 214
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#



#62
4-Bromofluorobenzene
Concen: 50.250 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.001 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

Tgt Ion: 95 Resp: 267312
Ion Ratio Lower Upper
95 100
174 70.9 0.0 122.0
176 68.9 0.0 117.6

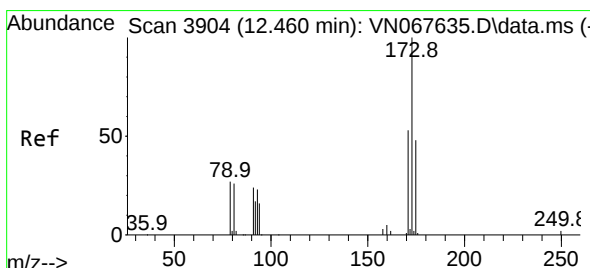
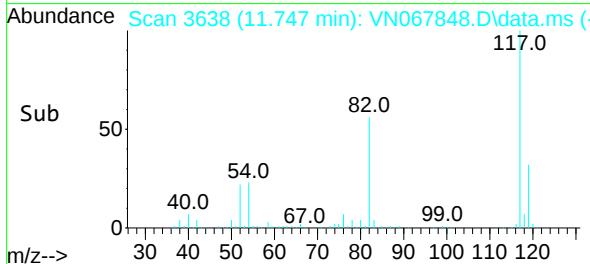
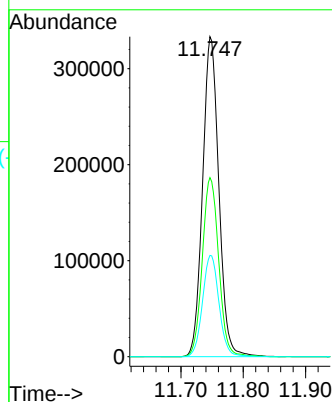
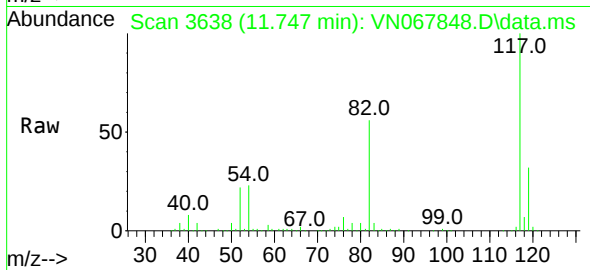




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

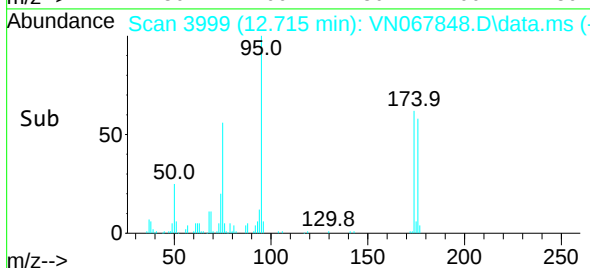
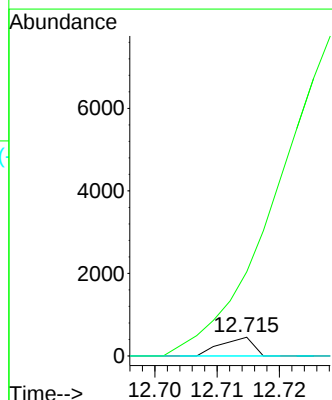
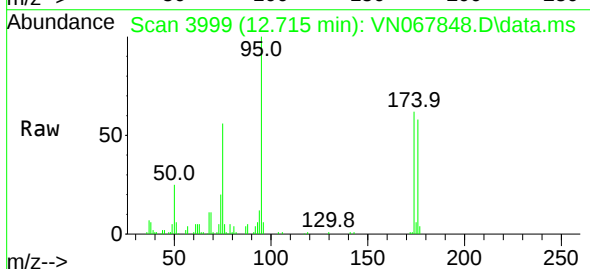
Instrument :
MSVOA_N
ClientSampled :

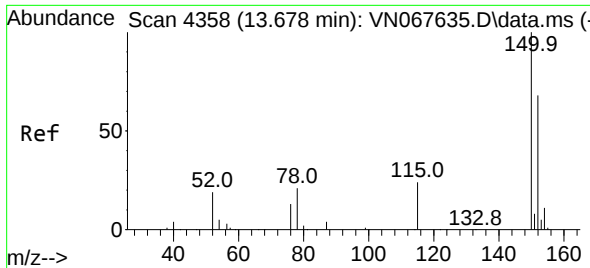
Tgt Ion:117 Resp: 602928
Ion Ratio Lower Upper
117 100
82 56.0 53.1 79.7
119 31.6 25.5 38.3



#71
Bromoform
Concen: 3.216 ug/l
RT: 12.715 min Scan# 3999
Delta R.T. 0.255 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

Tgt Ion:173 Resp: 165
Ion Ratio Lower Upper
173 100
175 8501.2 23.9 71.8#
254 0.0 0.0 0.0

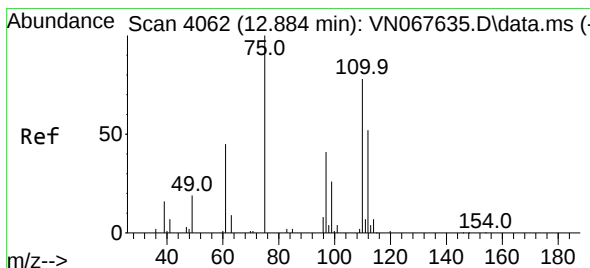
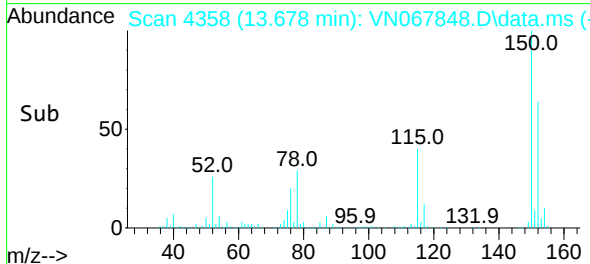
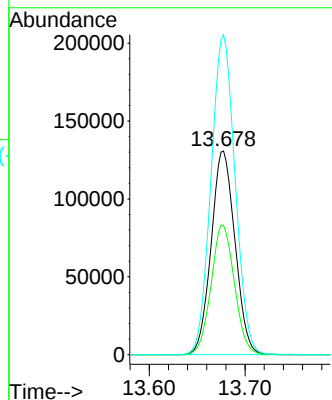
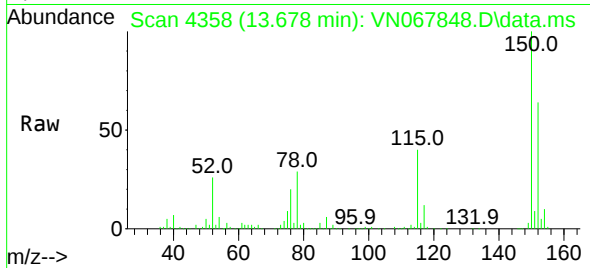




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.678 min Scan# 4358
 Delta R.T. 0.000 min
 Lab File: VN067848.D
 Acq: 21 Jul 2021 19:06

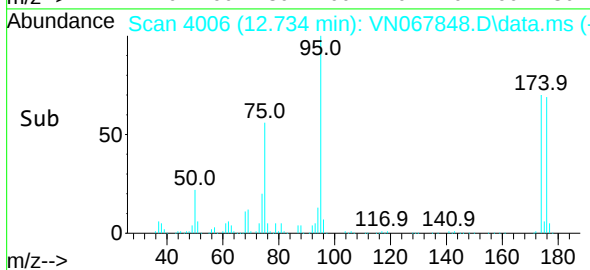
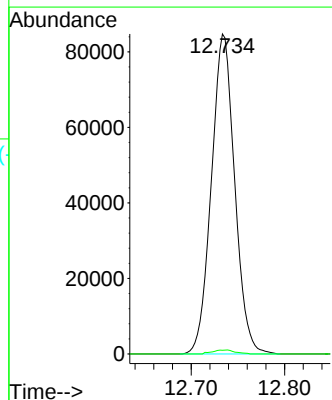
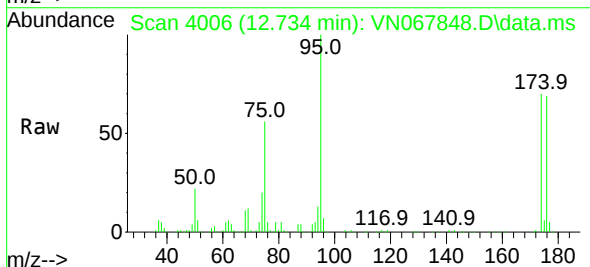
Instrument :
 MSVOA_N
 ClientSampled :

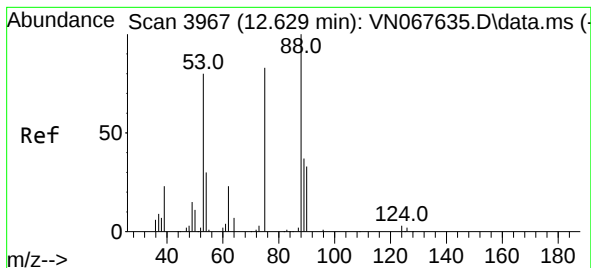
Tgt Ion:152 Resp: 225585
 Ion Ratio Lower Upper
 152 100
 115 62.4 36.1 108.5
 150 158.9 0.0 351.8



#76
 1,2,3-Trichloropropane
 Concen: 31.910 ug/l
 RT: 12.734 min Scan# 4006
 Delta R.T. -0.150 min
 Lab File: VN067848.D
 Acq: 21 Jul 2021 19:06

Tgt Ion: 75 Resp: 147004
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#

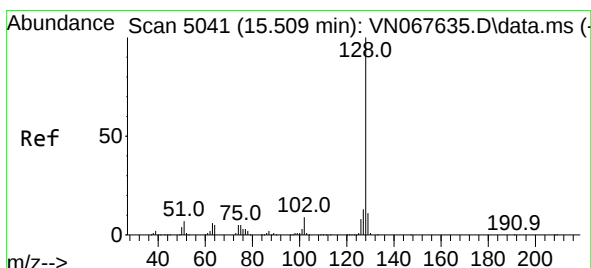
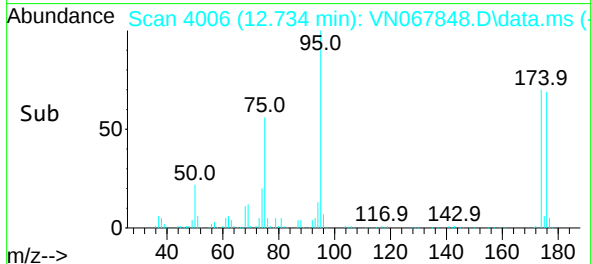
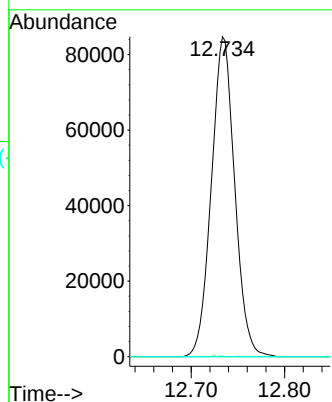
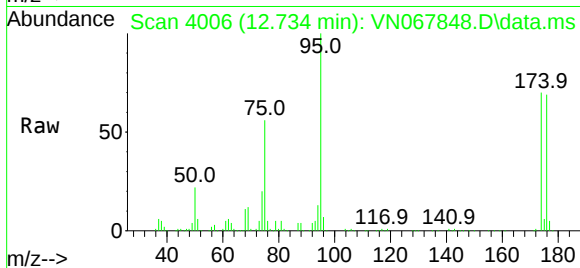




#81
trans-1,4-Dichloro-2-butene
Concen: 102.881 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.105 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion: 75 Resp: 147004
Ion Ratio Lower Upper
75 100
53 0.0 87.6 131.4#
89 0.0 37.8 56.8#



#95
Naphthalene
Concen: 3.073 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. -0.002 min
Lab File: VN067848.D
Acq: 21 Jul 2021 19:06

Tgt Ion:128 Resp: 713
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.6 12.8#

