

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101221\
 Data File : VN068875.D
 Acq On : 12 Oct 2021 21:06
 Operator : JC/MD
 Sample : M4159-11
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 13 08:23:20 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N101221W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 13 05:44:40 2021
 Response via : Initial Calibration

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

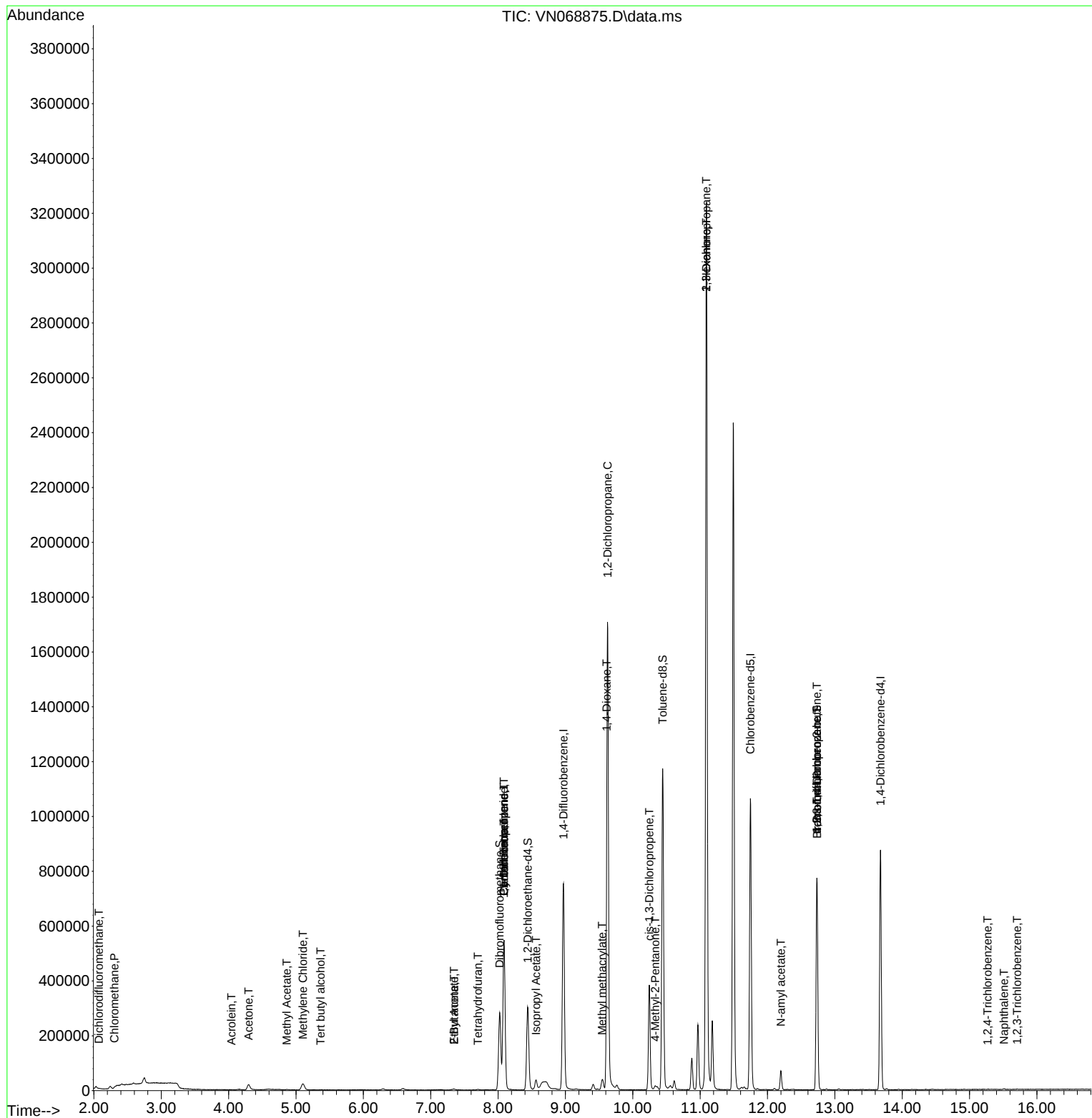
Internal Standards						
1) Pentafluorobenzene	8.088	168	420476	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	686303	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	630724	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	238141	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	255015	46.000	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	92.000%		
35) Dibromofluoromethane	8.024	113	207493	51.965	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	103.920%		
50) Toluene-d8	10.443	98	846146	52.962	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	105.920%		
62) 4-Bromofluorobenzene	12.734	95	282788	46.914	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	93.820%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.073	85	106	1.263	ug/l #	42
3) Chloromethane	2.303	50	1232	0.240	ug/l #	75
11) Tert butyl alcohol	5.363	59	394	0.389	ug/l #	88
13) Acrolein	4.041	56	424	0.946	ug/l #	67
16) Acetone	4.296	43	36431	17.609	ug/l	97
18) Methyl Acetate	4.862	43	3041	0.388	ug/l #	68
20) Methylene Chloride	5.103	84	18496	3.884	ug/l	98
25) 2-Butanone	7.345	43	5920	1.892	ug/l #	85
29) Tetrahydrofuran	7.699	42	1701	0.838	ug/l #	63
31) Cyclohexane	8.088	56	10154	1.178	ug/l #	17
36) 1,1-Dichloropropene	8.086	75	32494	5.543	ug/l #	50
37) Ethyl Acetate	7.345	43	5920	0.978	ug/l #	69
38) Carbon Tetrachloride	8.088	117	42466	6.596	ug/l #	16
43) Isopropyl Acetate	8.563	43	44051	4.124	ug/l #	90
45) 1,2-Dichloropropane	9.625	63	2184	0.472	ug/l #	43
48) Methyl methacrylate	9.545	41	10202	2.033	ug/l #	14
49) 1,4-Dioxane	9.614	88	141	37.024	ug/l #	23
51) 4-Methyl-2-Pentanone	10.333	43	6355	1.026	ug/l #	60
54) cis-1,3-Dichloropropene	10.245	75	74867	9.695	ug/l #	56
57) 1,3-Dichloropropane	11.092	76	35907	4.809	ug/l #	43
59) 2-Hexanone	11.092	43	516125	116.194	ug/l #	50
71) Bromoform	12.736	173	1382	0.369	ug/l #	1
74) N-amyl acetate	12.197	43	23086	3.074	ug/l #	52
76) 1,2,3-Trichloropropane	12.734	75	145893	28.793	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.734	75	145893	68.886	ug/l #	12
93) 1,2,4-Trichlorobenzene	15.268	180	533	2.728	ug/l #	46
95) Naphthalene	15.512	128	2525	4.023	ug/l #	86
96) 1,2,3-Trichlorobenzene	15.705	180	549	2.651	ug/l #	64

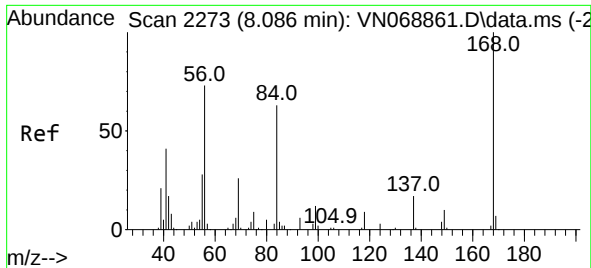
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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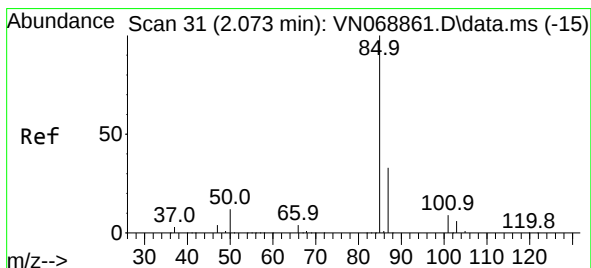
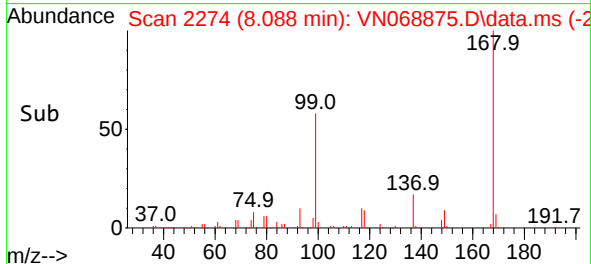
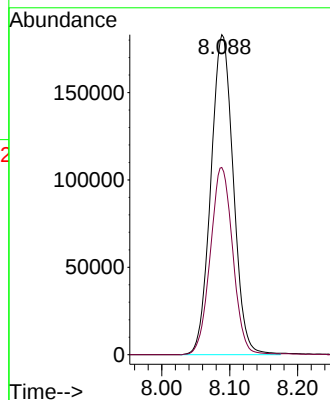
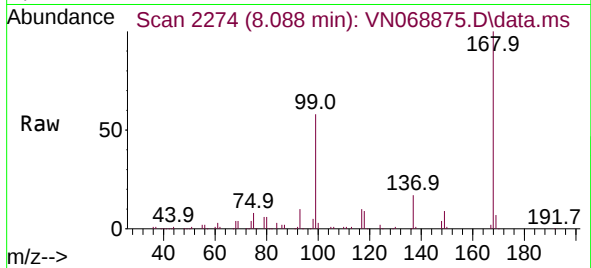




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.002 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

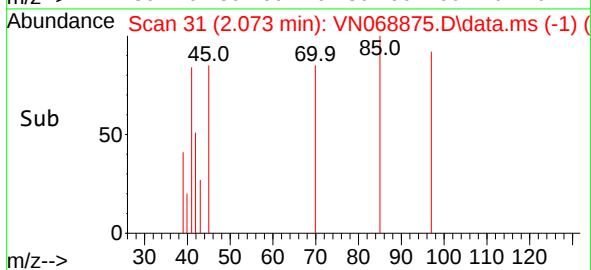
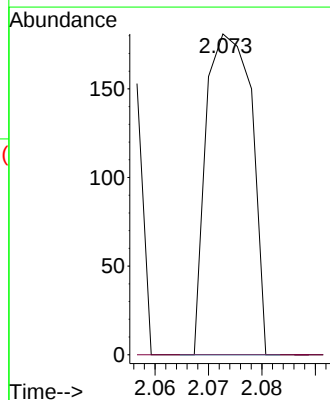
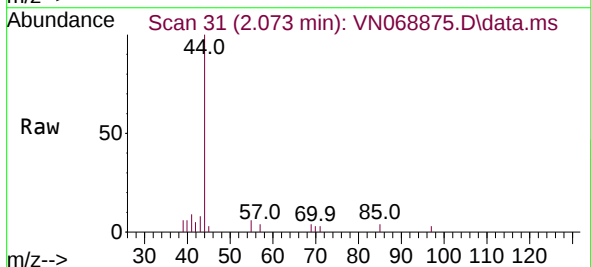
Instrument :
MSVOA_N
ClientSampled :

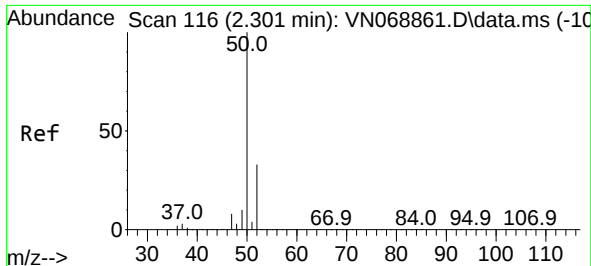
Tgt Ion:168 Resp: 420476
Ion Ratio Lower Upper
168 100
99 58.5 48.9 73.3



#2
Dichlorodifluoromethane
Concen: 1.263 ug/l
RT: 2.073 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

Tgt Ion: 85 Resp: 106
Ion Ratio Lower Upper
85 100
87 0.0 16.3 48.8#





#3

Chloromethane

Concen: 0.240 ug/l

RT: 2.303 min Scan# 117

Delta R.T. 0.003 min

Lab File: VN068875.D

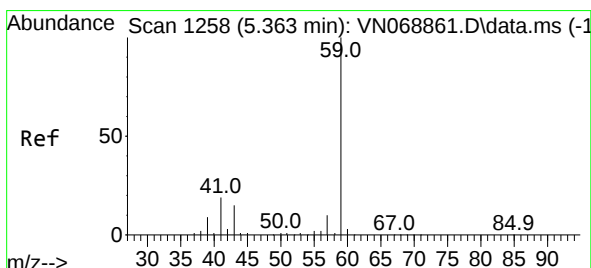
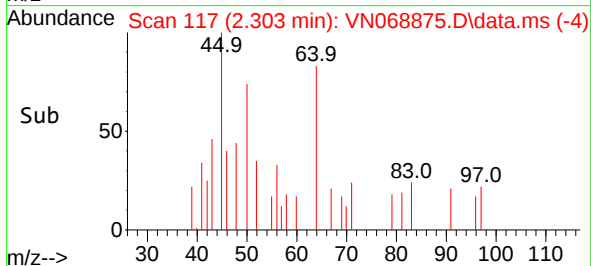
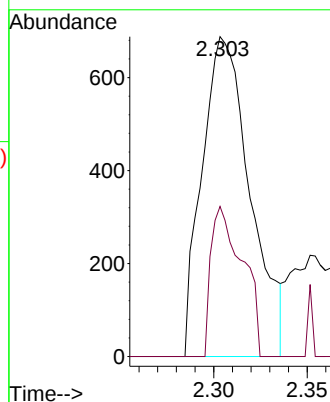
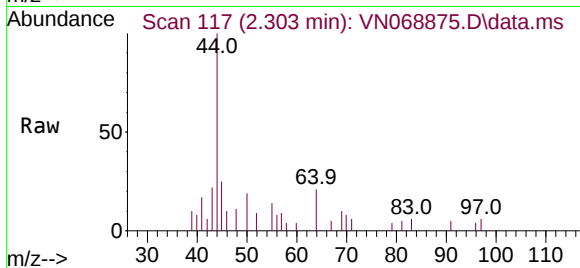
Acq: 12 Oct 2021 21:06

Tgt Ion: 50 Resp: 1232

Ion Ratio Lower Upper

50 100

52 46.9 26.3 39.5#



#11

Tert butyl alcohol

Concen: 0.389 ug/l

RT: 5.363 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VN068875.D

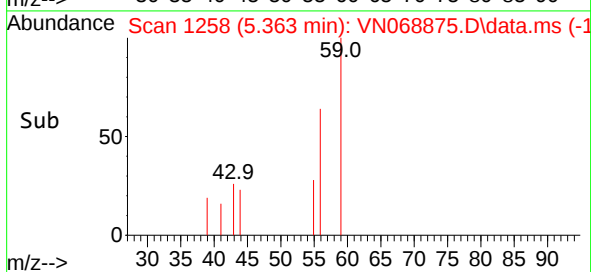
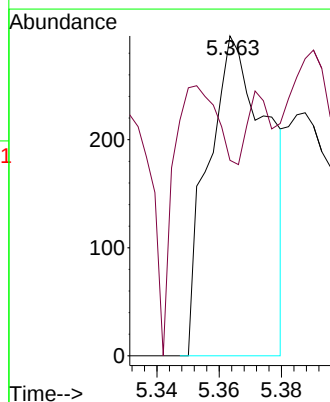
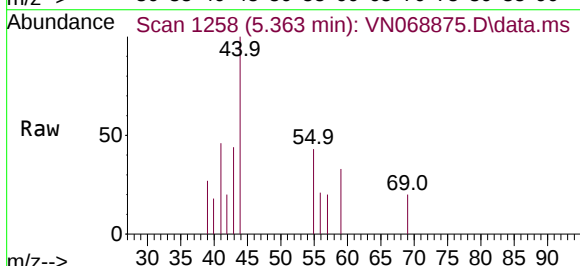
Acq: 12 Oct 2021 21:06

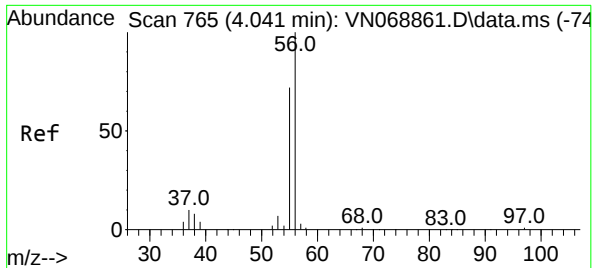
Tgt Ion: 59 Resp: 394

Ion Ratio Lower Upper

59 100

57 14.7 8.3 12.5#

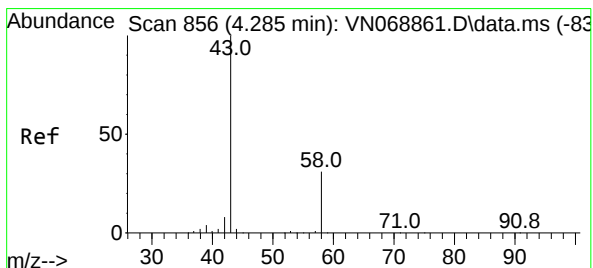
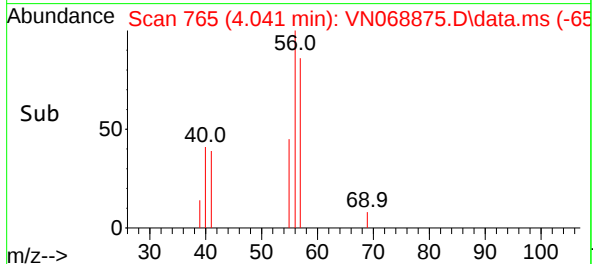
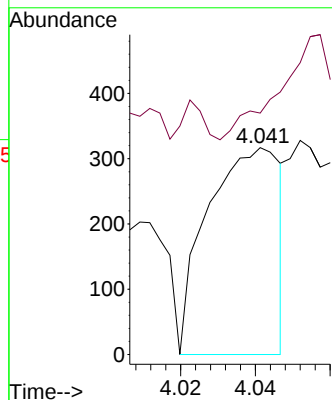
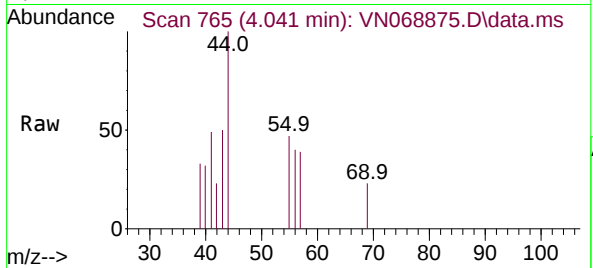




#13
Acrolein
Concen: 0.946 ug/l
RT: 4.041 min Scan# 765
Delta R.T. 0.000 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

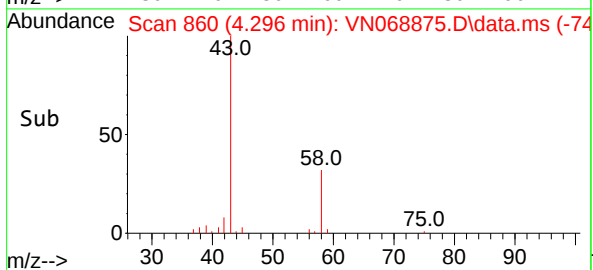
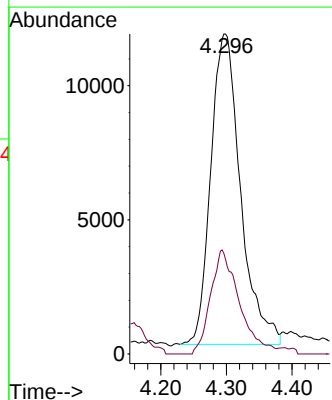
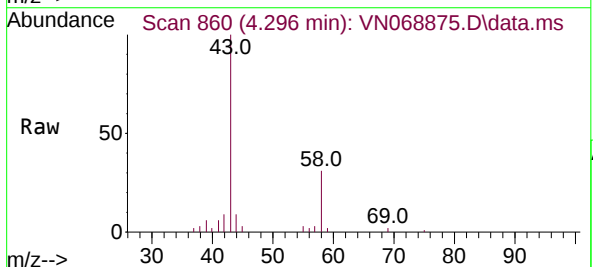
Instrument :
MSVOA_N
ClientSampled :

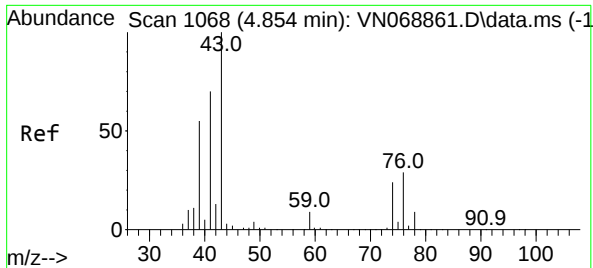
Tgt Ion: 56 Resp: 424
Ion Ratio Lower Upper
56 100
55 44.6 58.1 87.1#



#16
Acetone
Concen: 17.609 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.011 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

Tgt Ion: 43 Resp: 36431
Ion Ratio Lower Upper
43 100
58 32.4 24.5 36.7

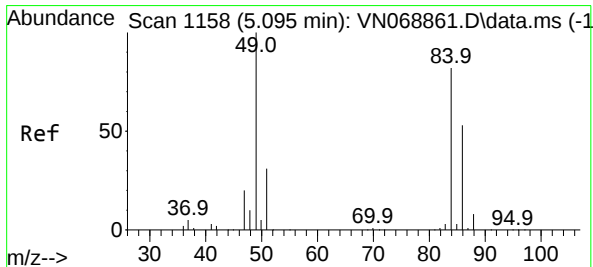
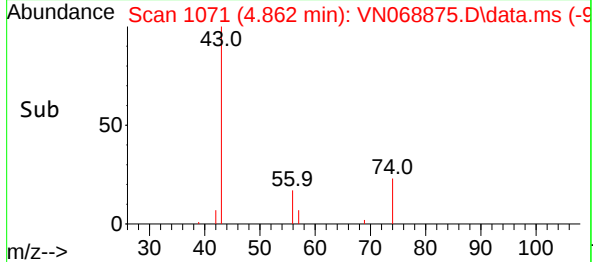
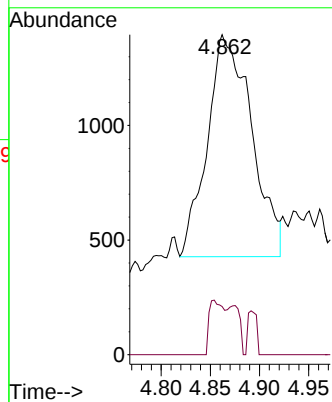
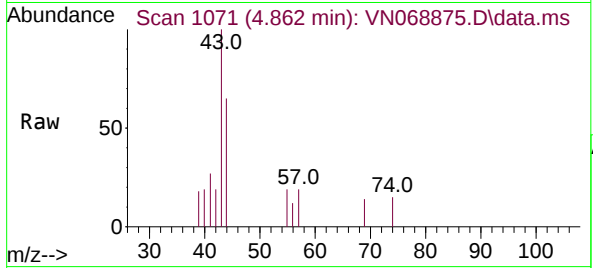




#18
Methyl Acetate
Concen: 0.388 ug/l
RT: 4.862 min Scan# 1071
Delta R.T. 0.008 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

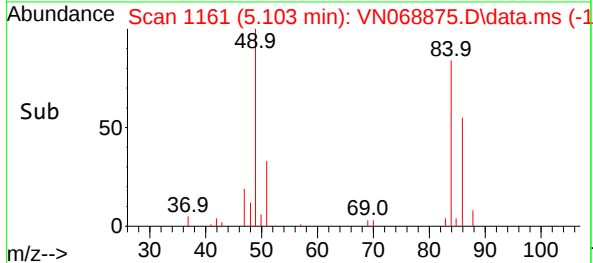
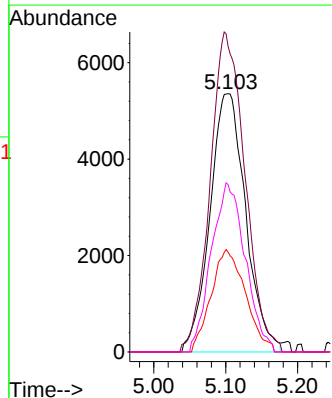
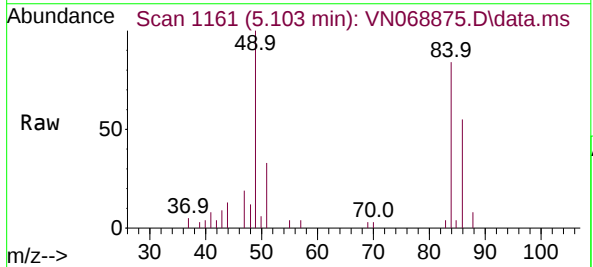
Instrument :
MSVOA_N
ClientSampled :

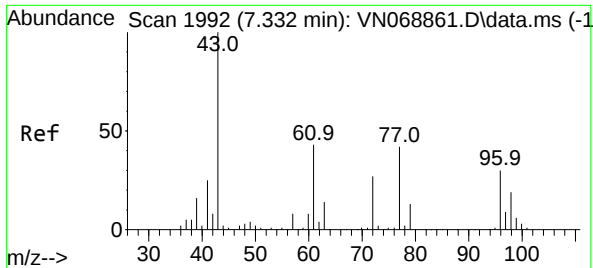
Tgt Ion: 43 Resp: 3041
Ion Ratio Lower Upper
43 100
74 7.9 18.9 28.3#



#20
Methylene Chloride
Concen: 3.884 ug/l
RT: 5.103 min Scan# 1161
Delta R.T. 0.008 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

Tgt Ion: 84 Resp: 18496
Ion Ratio Lower Upper
84 100
49 118.4 97.6 146.4
51 38.7 30.3 45.5
86 64.8 51.8 77.6

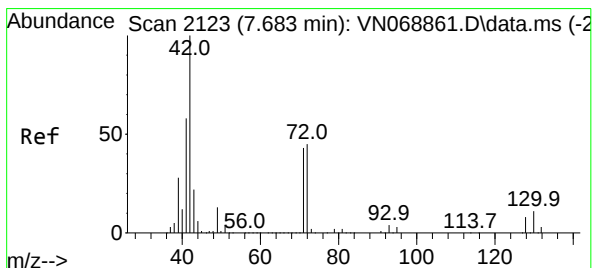
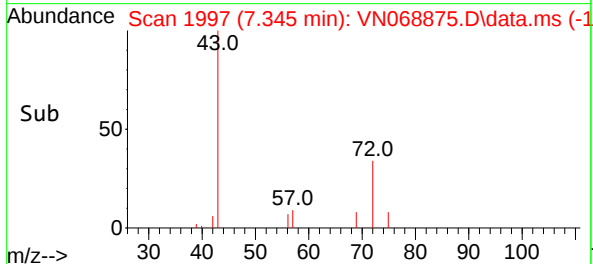
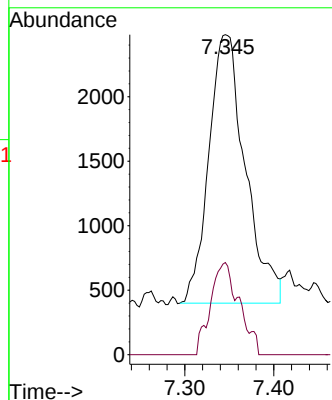
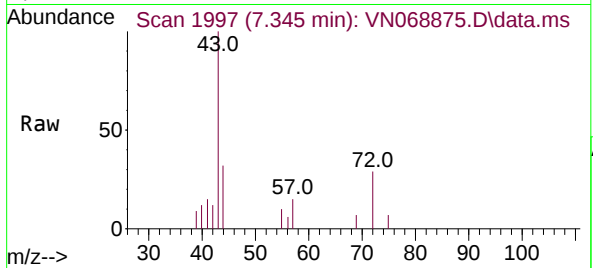




#25
2-Butanone
Concen: 1.892 ug/l
RT: 7.345 min Scan# 1997
Delta R.T. 0.013 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

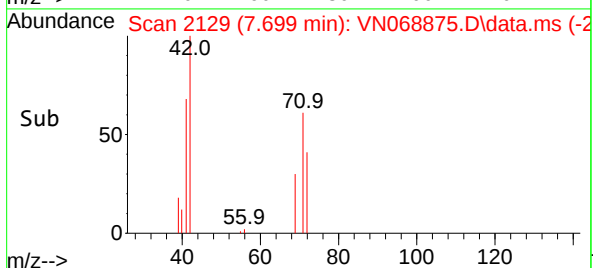
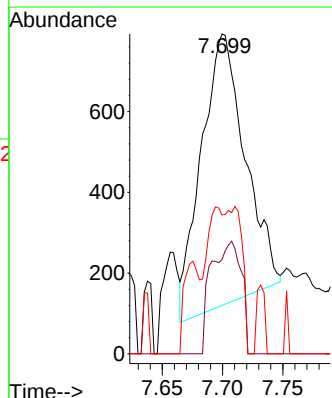
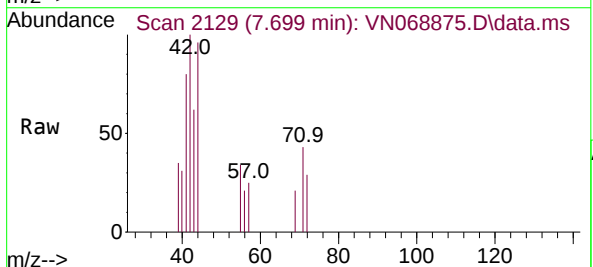
Instrument :
MSVOA_N
ClientSampled :

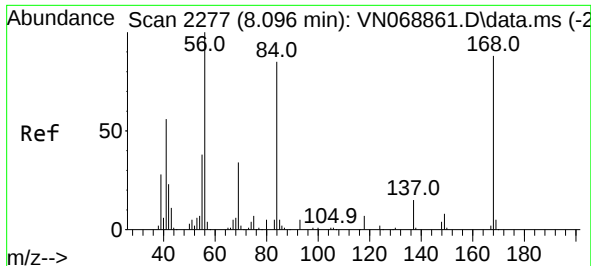
Tgt Ion: 43 Resp: 5920
Ion Ratio Lower Upper
43 100
72 34.4 21.2 31.8#



#29
Tetrahydrofuran
Concen: 0.838 ug/l
RT: 7.699 min Scan# 2129
Delta R.T. 0.016 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

Tgt Ion: 42 Resp: 1701
Ion Ratio Lower Upper
42 100
72 28.2 35.4 53.2#
71 10.5 33.8 50.6#

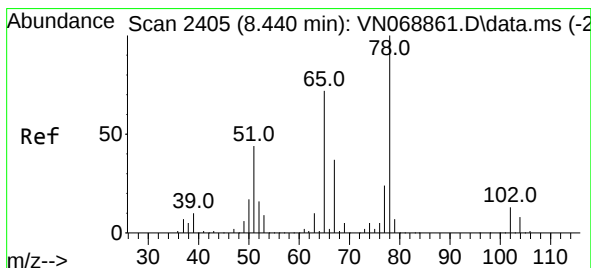
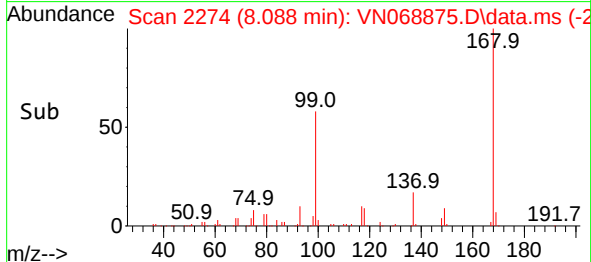
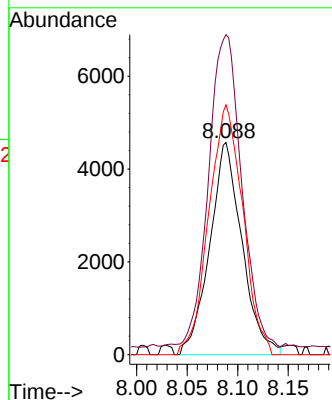
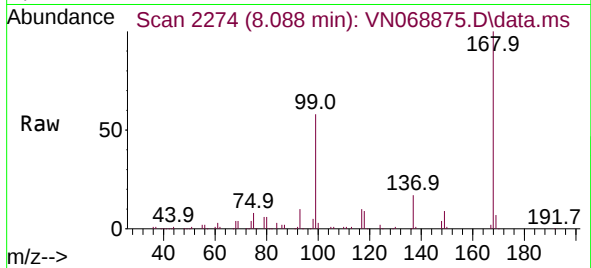




#31
Cyclohexane
Concen: 1.178 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.008 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

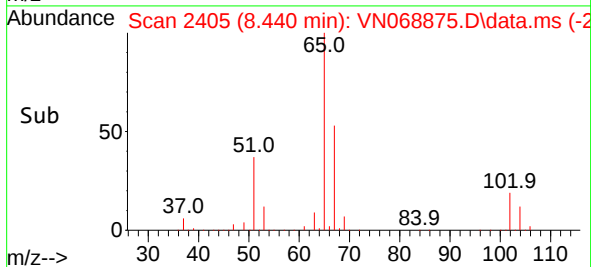
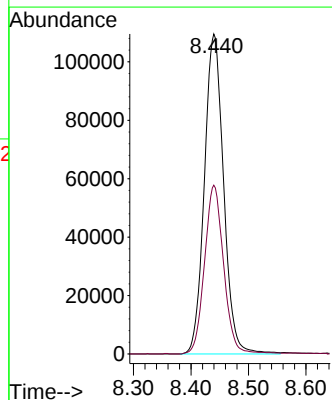
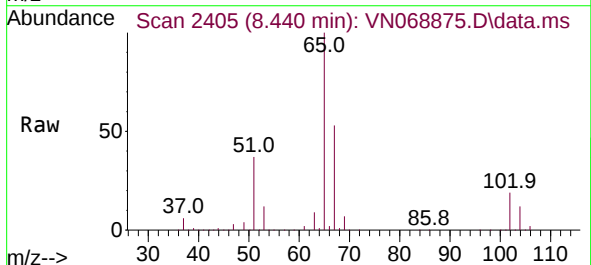
Instrument :
MSVOA_N
ClientSampled :

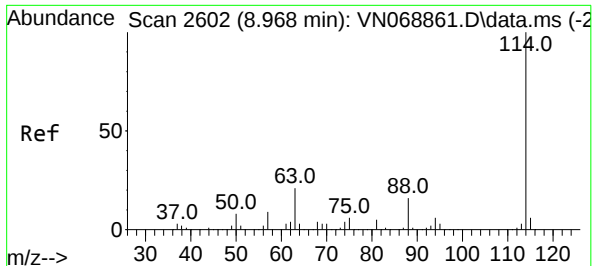
Tgt Ion: 56 Resp: 10154
Ion Ratio Lower Upper
56 100
69 147.1 26.9 40.3#
84 117.7 67.6 101.4#



#33
1,2-Dichloroethane-d4
Concen: 46.000 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.000 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

Tgt Ion: 65 Resp: 255015
Ion Ratio Lower Upper
65 100
67 52.5 0.0 103.8

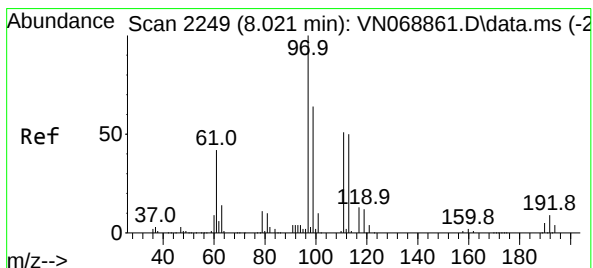
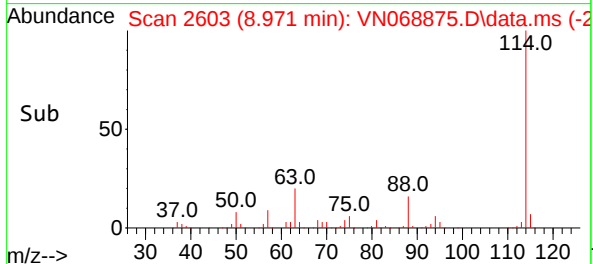
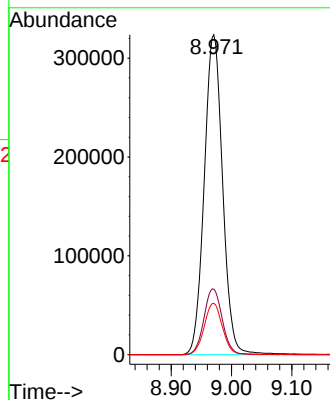
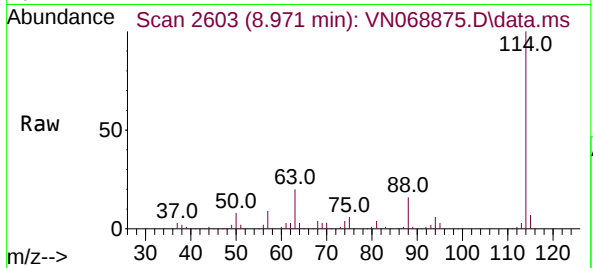




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.003 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

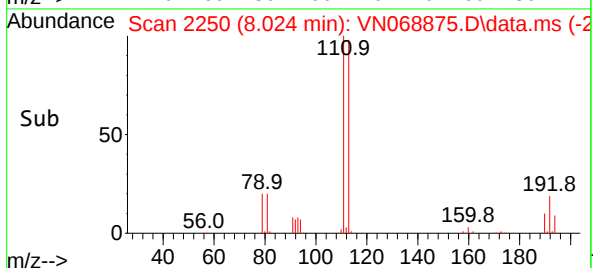
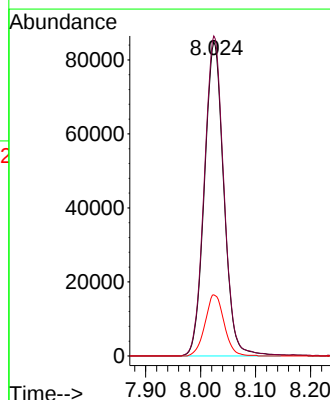
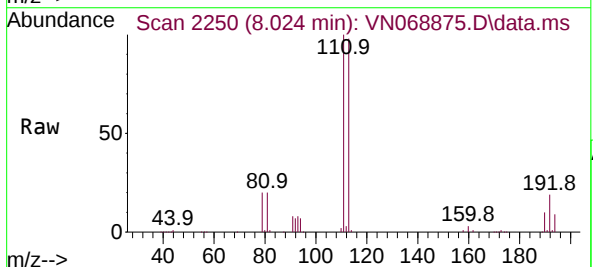
Instrument :
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ClientSampled :

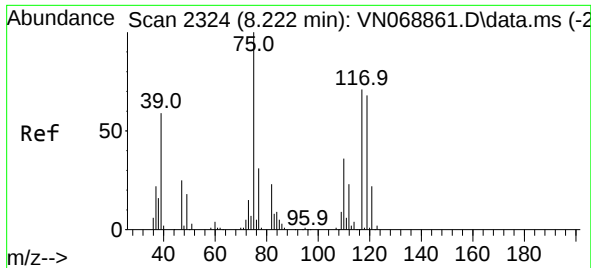
Tgt Ion:114 Resp: 686303
Ion Ratio Lower Upper
114 100
63 20.5 0.0 42.6
88 16.0 0.0 32.0



#35
Dibromofluoromethane
Concen: 51.965 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

Tgt Ion:113 Resp: 207493
Ion Ratio Lower Upper
113 100
111 103.2 83.2 124.8
192 19.2 15.0 22.4

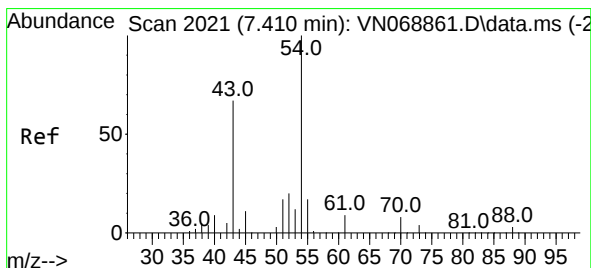
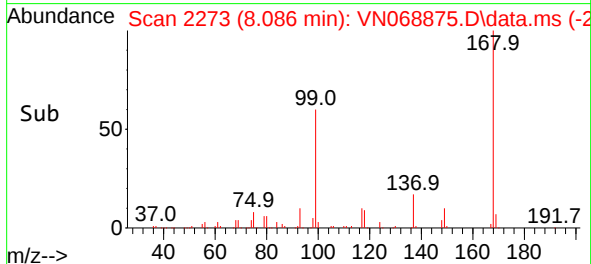
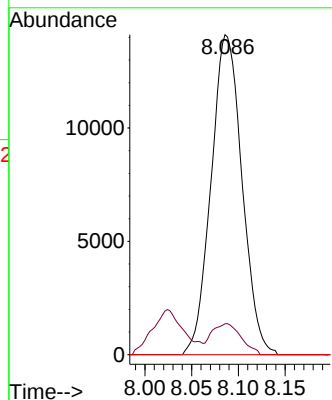
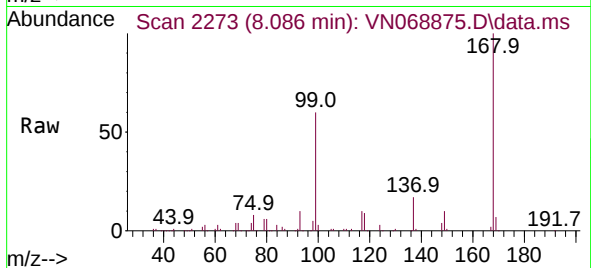




#36
1,1-Dichloropropene
Concen: 5.543 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.137 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

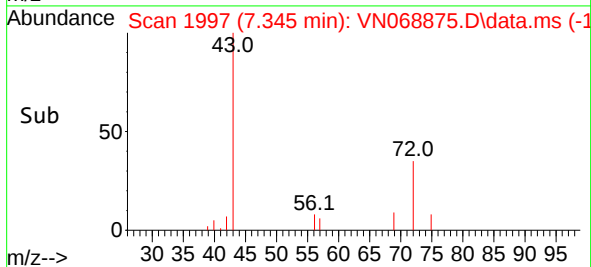
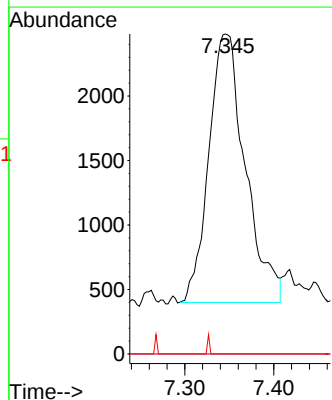
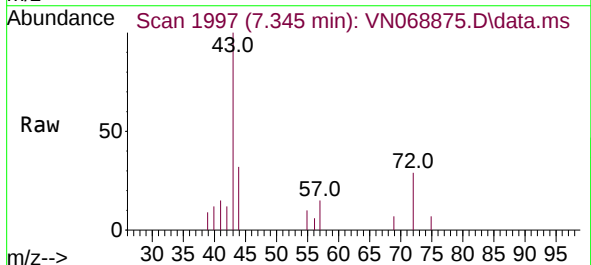
Instrument :
MSVOA_N
ClientSampleId :

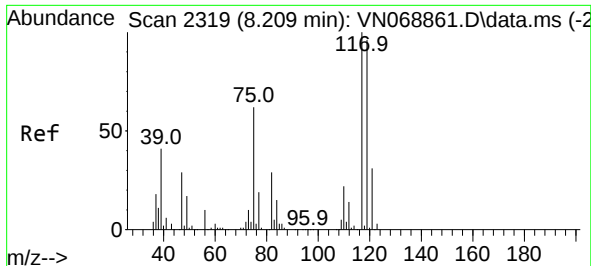
Tgt Ion: 75 Resp: 32494
Ion Ratio Lower Upper
75 100
110 9.4 17.9 53.8#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 0.978 ug/l
RT: 7.345 min Scan# 1997
Delta R.T. -0.064 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

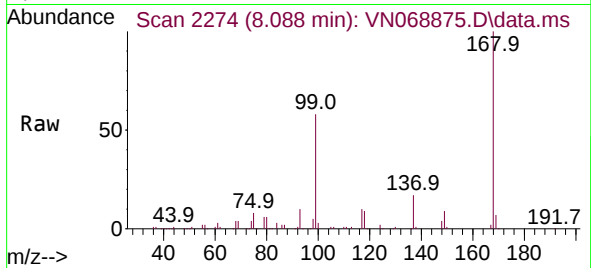
Tgt Ion: 43 Resp: 5920
Ion Ratio Lower Upper
43 100
61 0.0 11.2 16.8#
70 0.4 8.4 12.6#



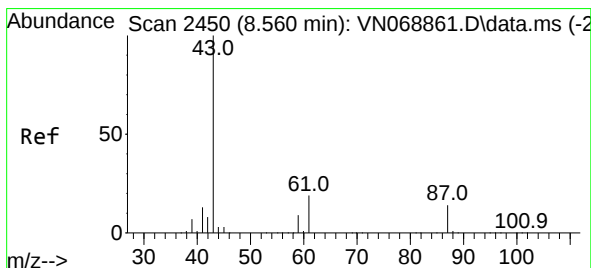
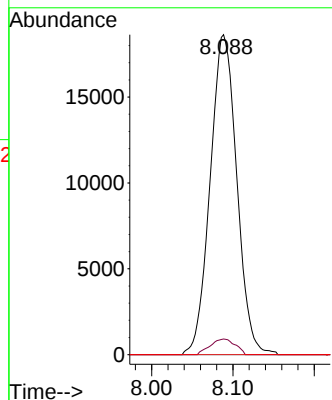
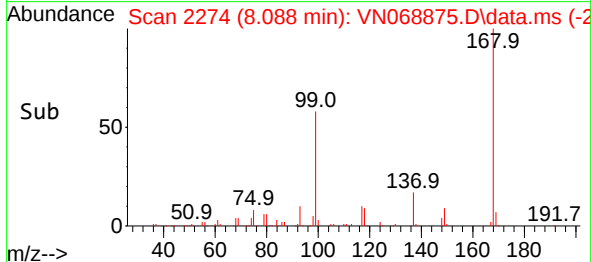


#38
Carbon Tetrachloride
Concen: 6.596 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.121 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

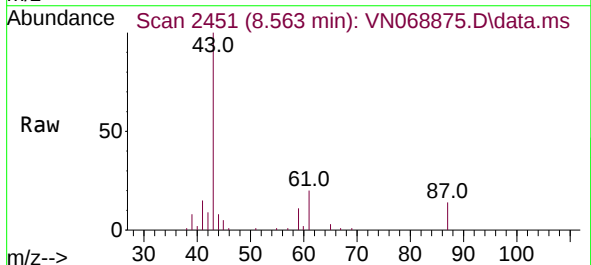
Instrument :
MSVOA_N
ClientSampled :



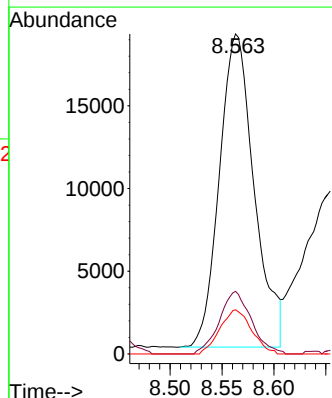
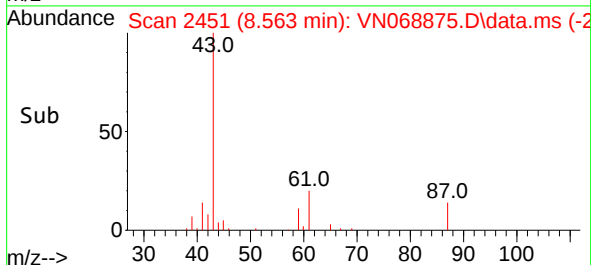
Tgt Ion:117 Resp: 42466
Ion Ratio Lower Upper
117 100
119 4.9 76.9 115.3#
121 0.0 24.6 37.0#

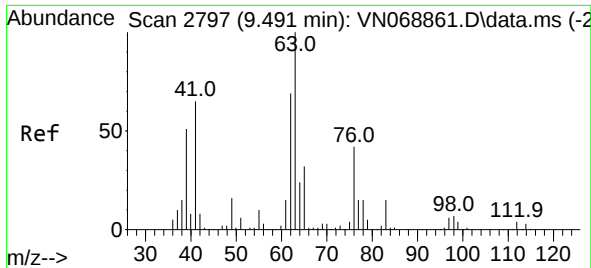


#43
Isopropyl Acetate
Concen: 4.124 ug/l
RT: 8.563 min Scan# 2451
Delta R.T. 0.003 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06



Tgt Ion: 43 Resp: 44051
Ion Ratio Lower Upper
43 100
61 18.5 20.4 30.6#
87 12.8 10.7 16.1

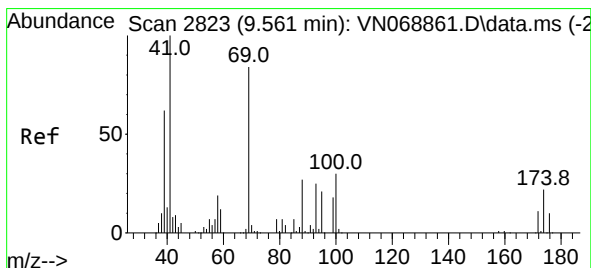
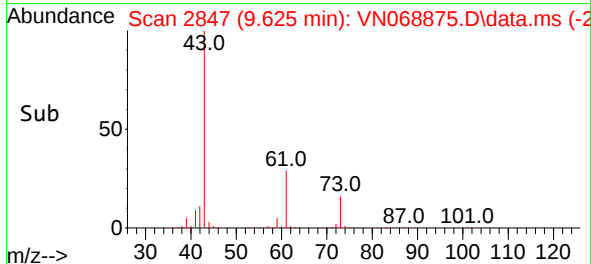
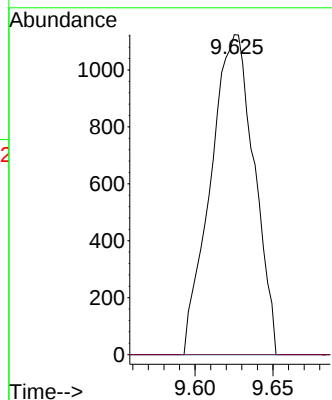
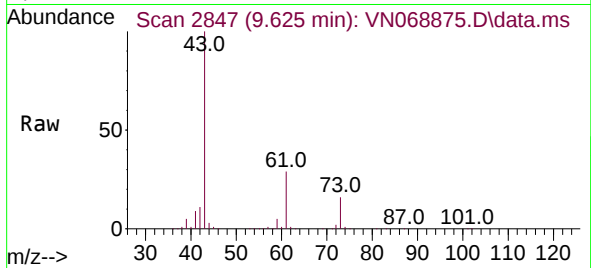




#45
1,2-Dichloropropane
Concen: 0.472 ug/l
RT: 9.625 min Scan# 2847
Delta R.T. 0.134 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

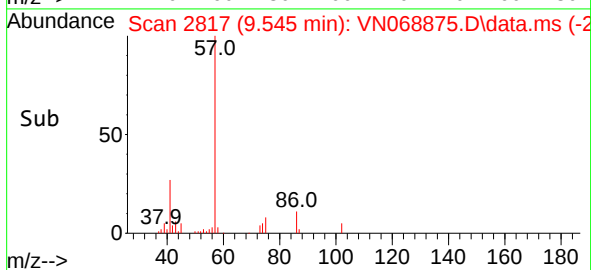
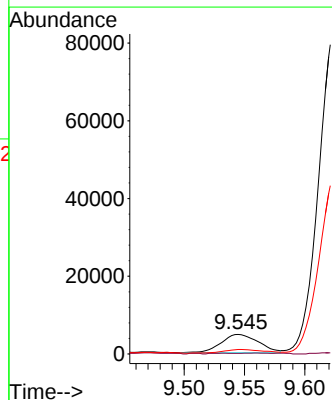
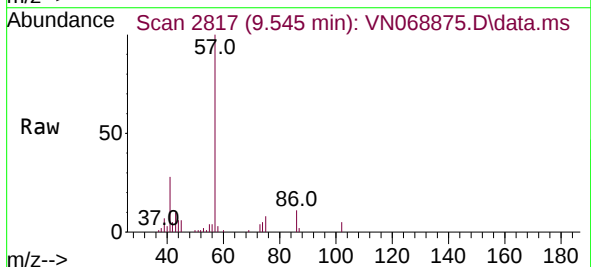
Instrument :
MSVOA_N
ClientSampled :

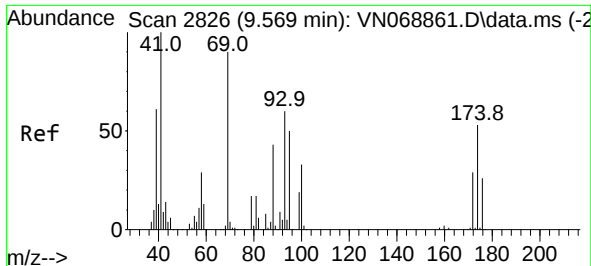
Tgt Ion: 63 Resp: 2184
Ion Ratio Lower Upper
63 100
65 0.0 25.6 38.4#



#48
Methyl methacrylate
Concen: 2.033 ug/l
RT: 9.545 min Scan# 2817
Delta R.T. -0.016 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

Tgt Ion: 41 Resp: 10202
Ion Ratio Lower Upper
41 100
69 2.2 66.4 99.6#
39 0.0 50.2 75.2#

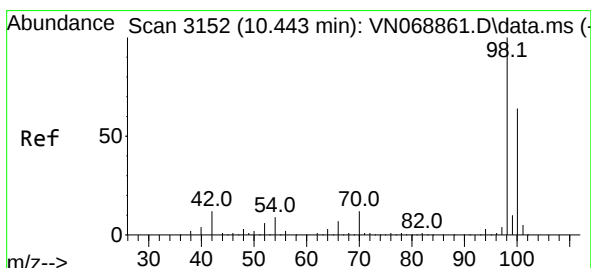
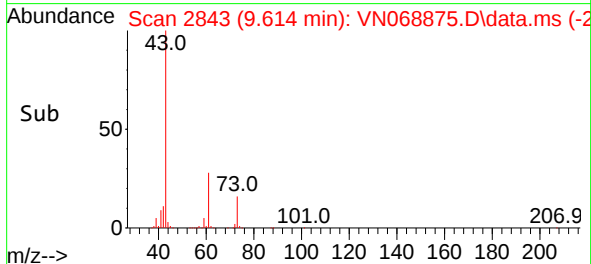
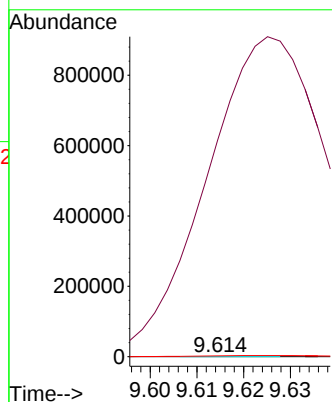
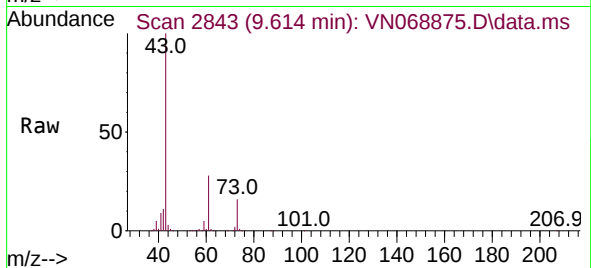




#49
1,4-Dioxane
Concen: 37.024 ug/l
RT: 9.614 min Scan# 2843
Delta R.T. 0.045 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

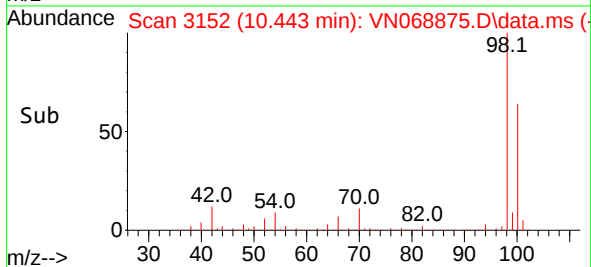
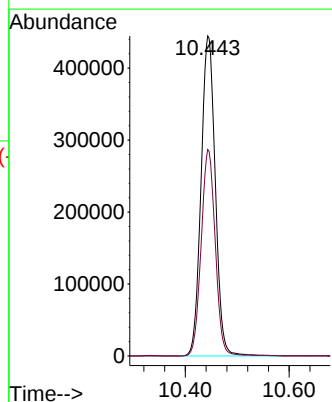
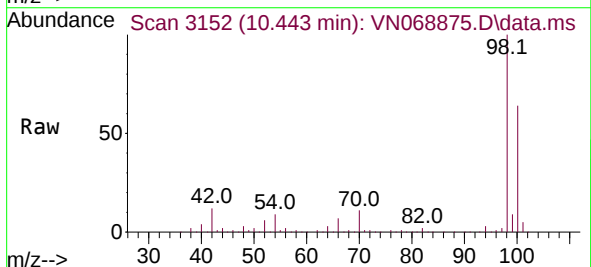
Instrument :
MSVOA_N
ClientSampled :

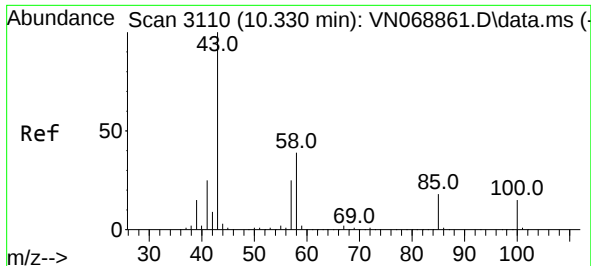
Tgt Ion: 88 Resp: 141
Ion Ratio Lower Upper
88 100
43 0.0 24.9 37.3#
58 0.0 56.9 85.3#



#50
Toluene-d8
Concen: 52.962 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

Tgt Ion: 98 Resp: 846146
Ion Ratio Lower Upper
98 100
100 63.6 51.5 77.3

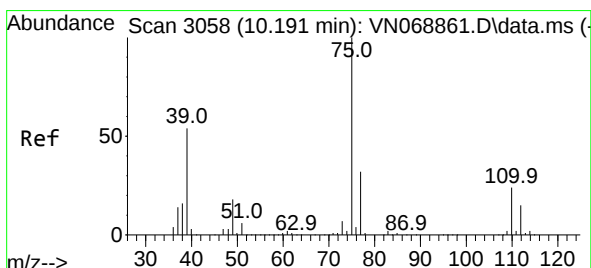
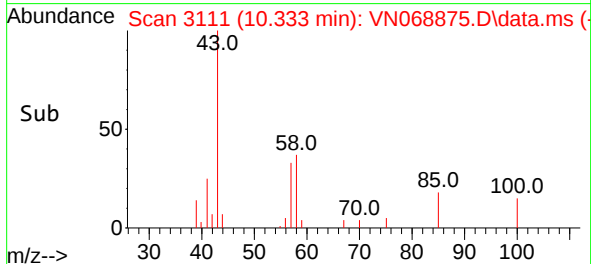
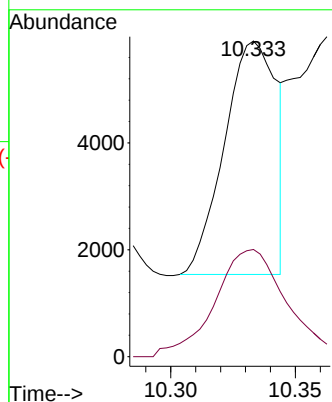
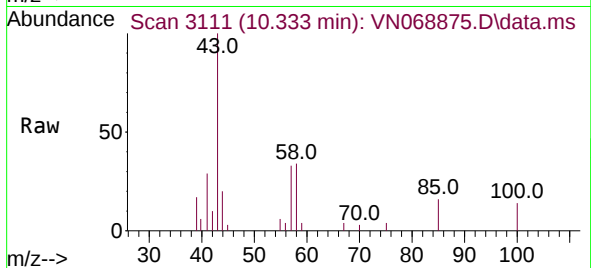




#51
4-Methyl-2-Pentanone
Concen: 1.026 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.003 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

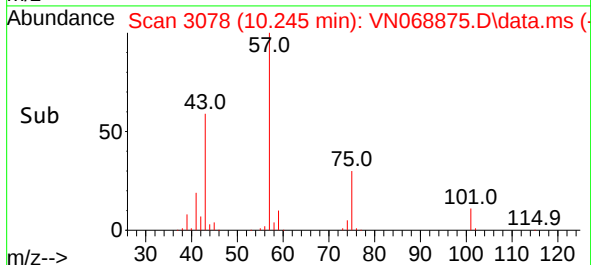
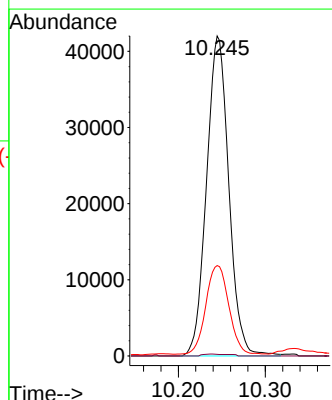
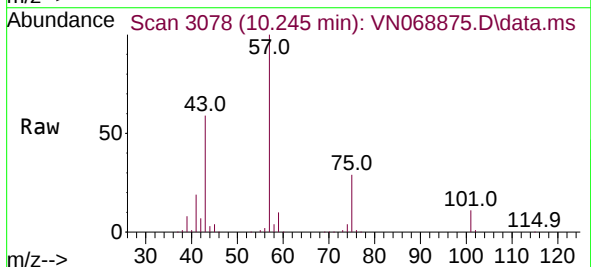
Instrument :
MSVOA_N
ClientSampled :

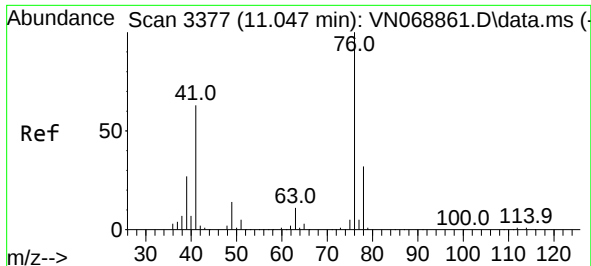
Tgt Ion: 43 Resp: 6355
Ion Ratio Lower Upper
43 100
58 63.0 31.0 46.4#



#54
cis-1,3-Dichloropropene
Concen: 9.695 ug/l
RT: 10.245 min Scan# 3078
Delta R.T. 0.054 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

Tgt Ion: 75 Resp: 74867
Ion Ratio Lower Upper
75 100
77 0.5 25.6 38.4#
39 27.6 42.9 64.3#

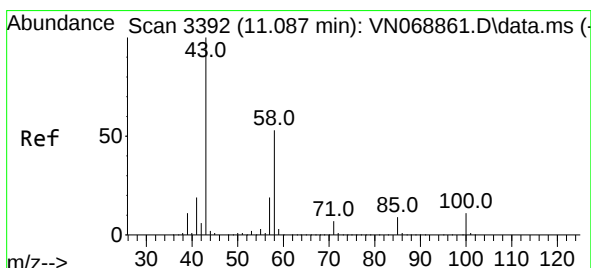
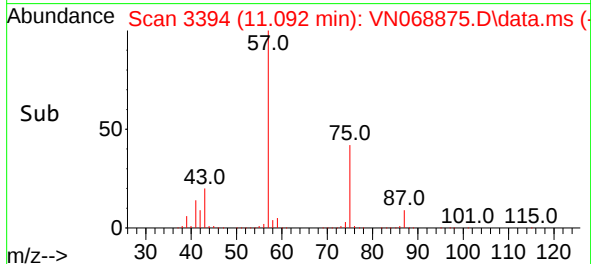
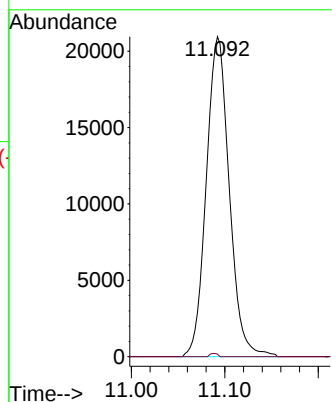
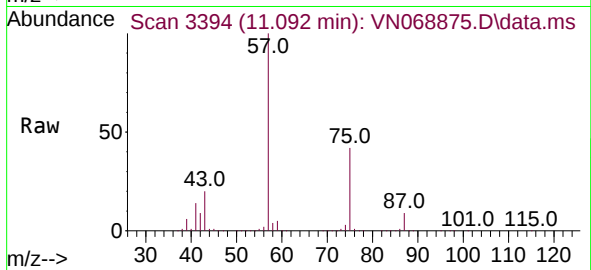




#57
1,3-Dichloropropane
Concen: 4.809 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.046 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

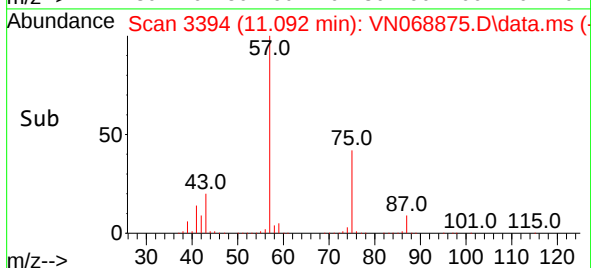
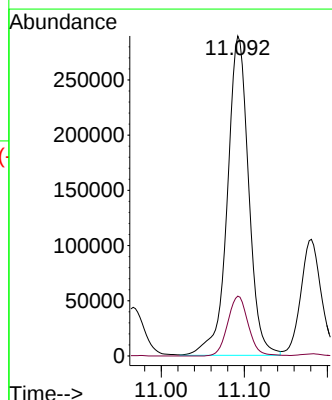
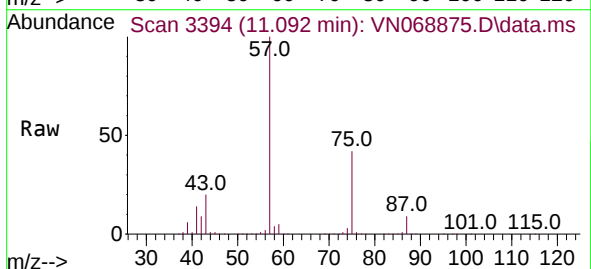
Instrument :
MSVOA_N
ClientSampled :

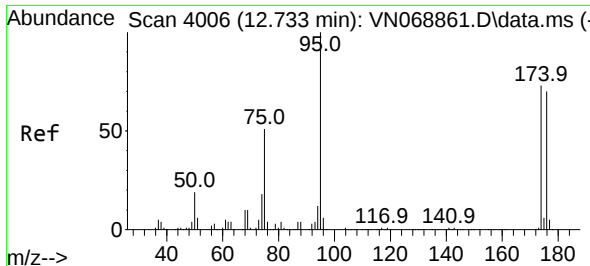
Tgt Ion: 76 Resp: 35907
Ion Ratio Lower Upper
76 100
78 0.3 25.8 38.8#



#59
2-Hexanone
Concen: 116.194 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

Tgt Ion: 43 Resp: 516125
Ion Ratio Lower Upper
43 100
58 18.1 26.9 80.7#

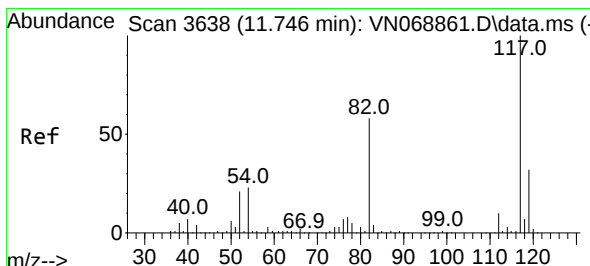
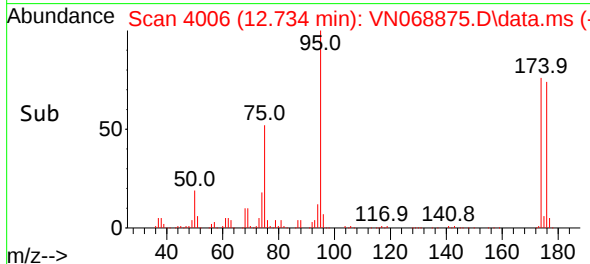
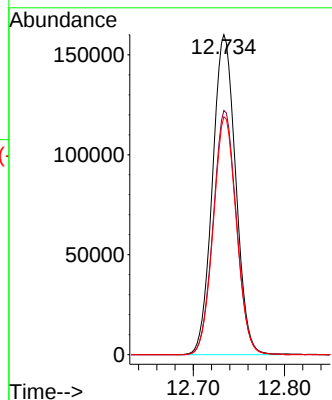
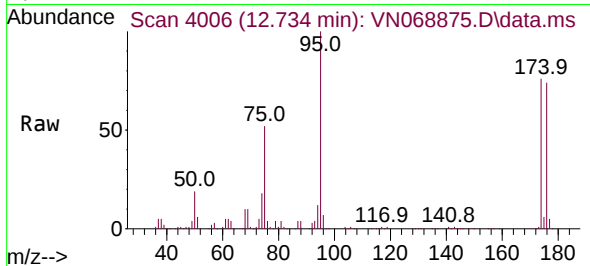




#62
4-Bromofluorobenzene
Concen: 46.914 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

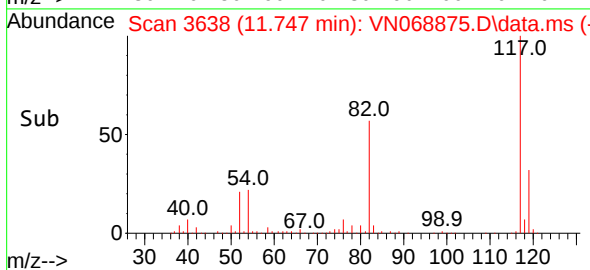
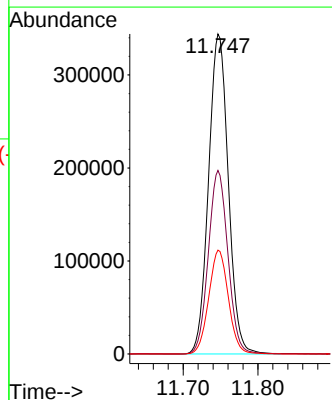
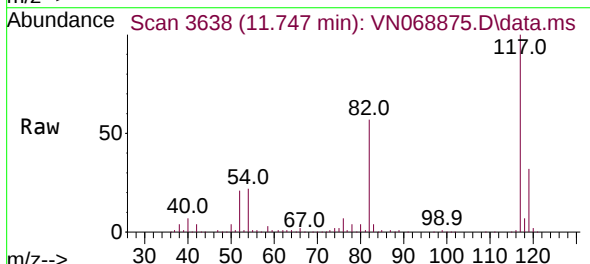
Instrument :
MSVOA_N
ClientSampleId :

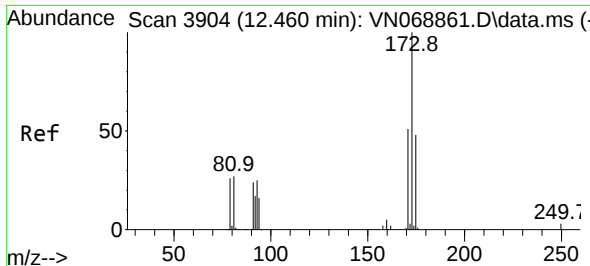
Tgt Ion: 95 Resp: 282788
Ion Ratio Lower Upper
95 100
174 76.3 0.0 144.8
176 74.3 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

Tgt Ion: 117 Resp: 630724
Ion Ratio Lower Upper
117 100
82 57.4 46.4 69.6
119 32.5 26.0 39.0

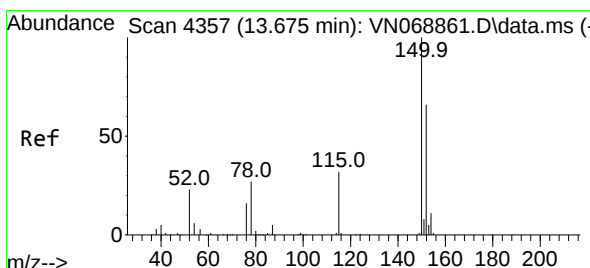
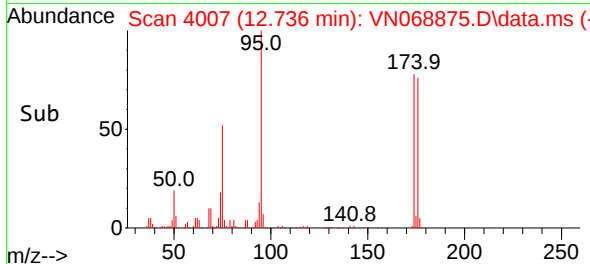
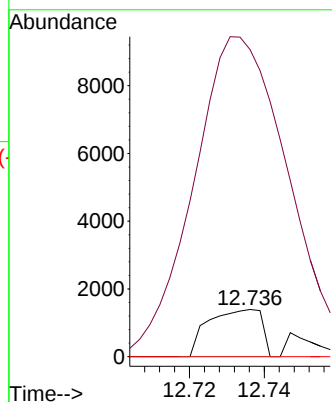
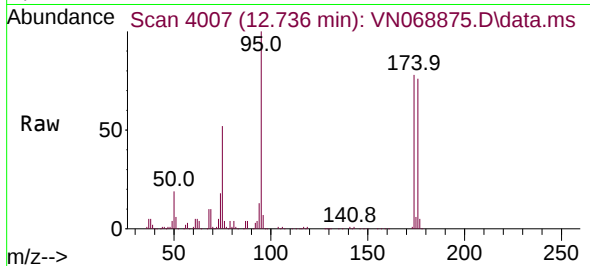




#71
Bromoform
Concen: 0.369 ug/l
RT: 12.736 min Scan# 4007
Delta R.T. 0.276 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

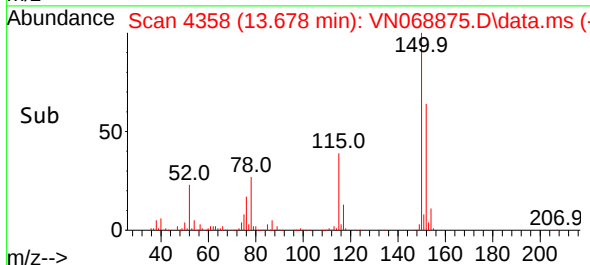
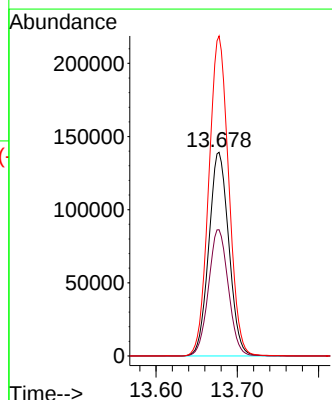
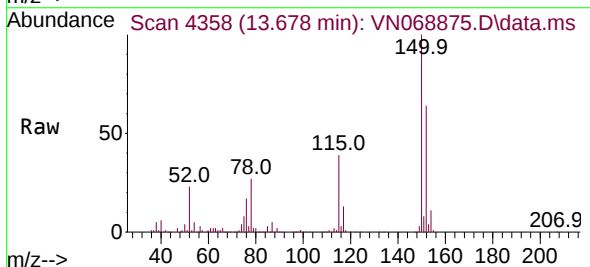
Instrument :
MSVOA_N
ClientSampled :

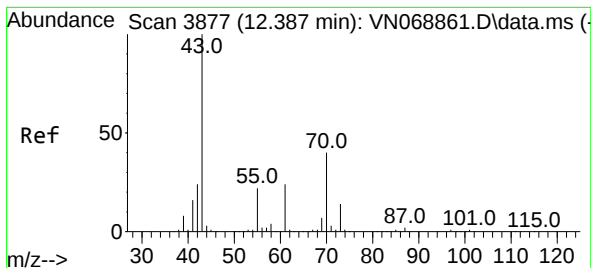
Tgt Ion:173 Resp: 1382
Ion Ratio Lower Upper
173 100
175 1111.3 23.8 71.5#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

Tgt Ion:152 Resp: 238141
Ion Ratio Lower Upper
152 100
115 61.4 31.4 94.3
150 156.4 0.0 351.0

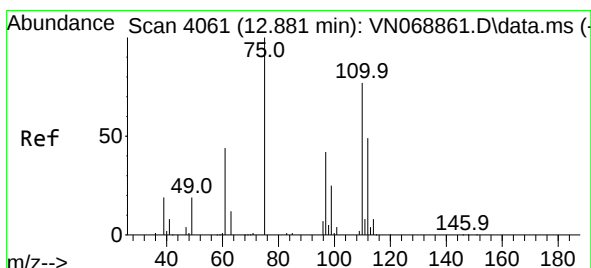
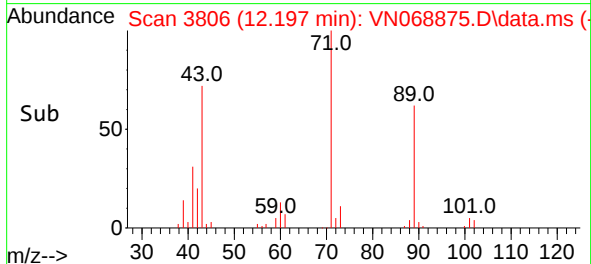
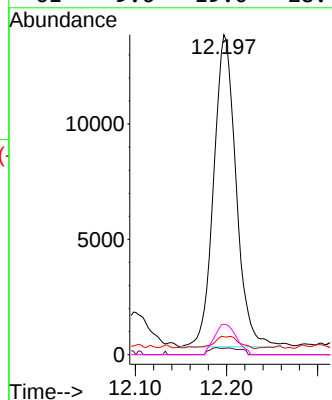
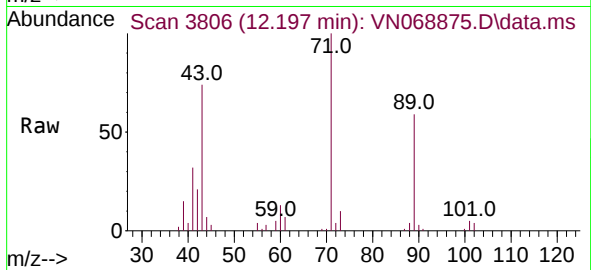




#74
N-amy1 acetate
Concen: 3.074 ug/l
RT: 12.197 min Scan# 3806
Delta R.T. -0.190 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

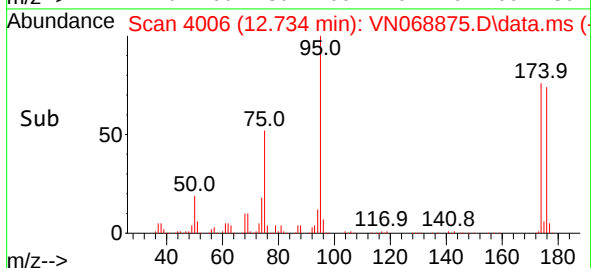
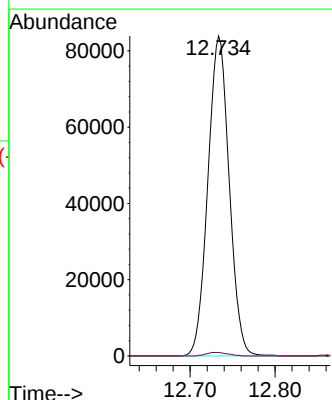
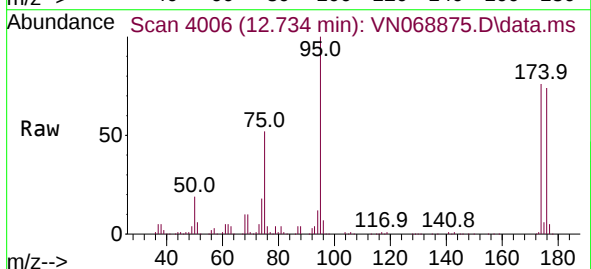
Instrument :
MSVOA_N
ClientSampled :

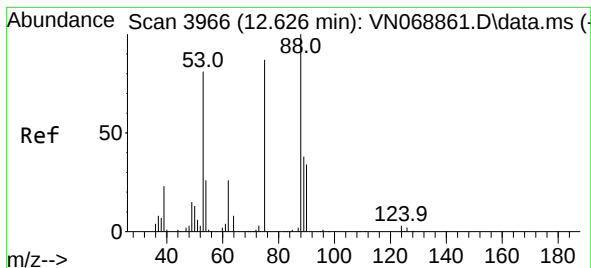
Tgt Ion:	43	Resp:	23086
Ion Ratio	Lower	Upper	
43	100		
70	1.2	32.2	48.2#
55	1.7	18.0	27.0#
61	9.6	19.0	28.4#



#76
1,2,3-Trichloropropane
Concen: 28.793 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

Tgt Ion:	75	Resp:	145893
Ion Ratio	Lower	Upper	
75	100		
77	1.1	96.2	288.4#

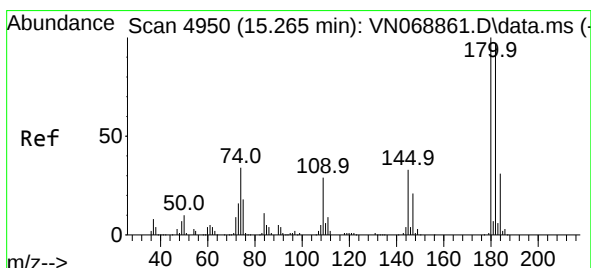
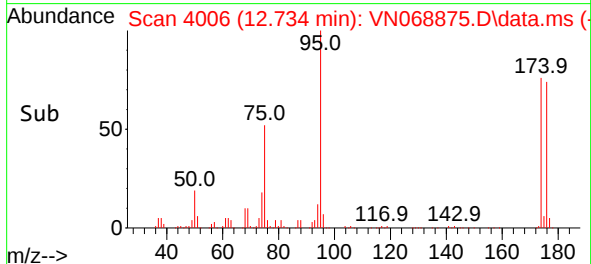
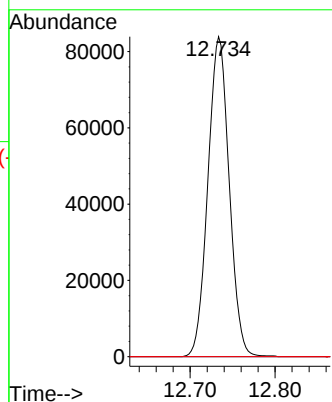
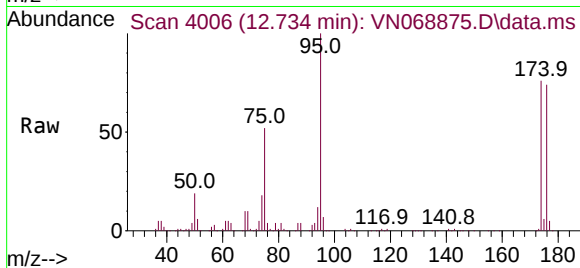




#81
trans-1,4-Dichloro-2-butene
Concen: 68.886 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

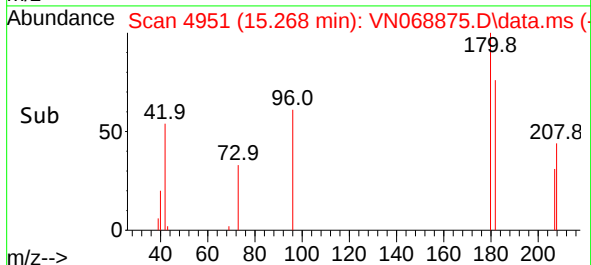
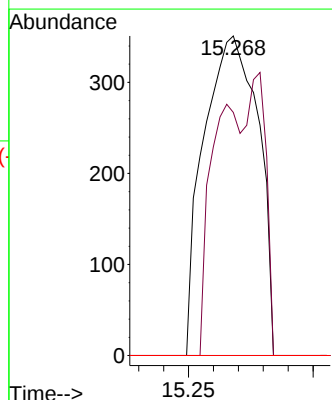
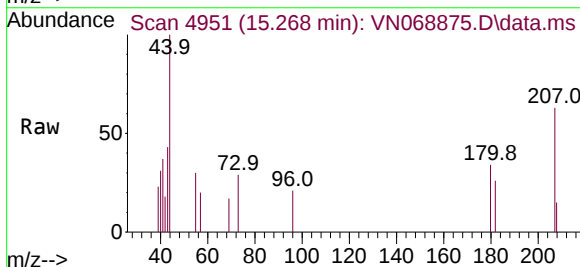
Instrument :
MSVOA_N
ClientSampleId :

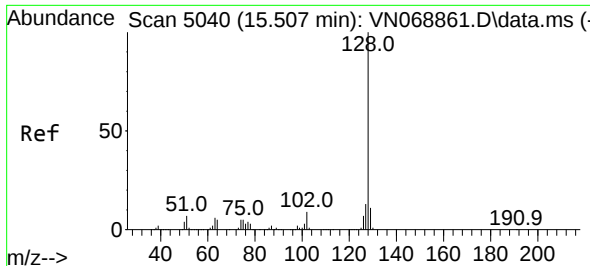
Tgt Ion: 75 Resp: 145893
Ion Ratio Lower Upper
75 100
53 0.0 75.4 113.2#
89 0.0 36.9 55.3#



#93
1,2,4-Trichlorobenzene
Concen: 2.728 ug/l
RT: 15.268 min Scan# 4951
Delta R.T. 0.003 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

Tgt Ion:180 Resp: 533
Ion Ratio Lower Upper
180 100
182 44.3 47.9 143.7#
145 0.0 16.4 49.2#

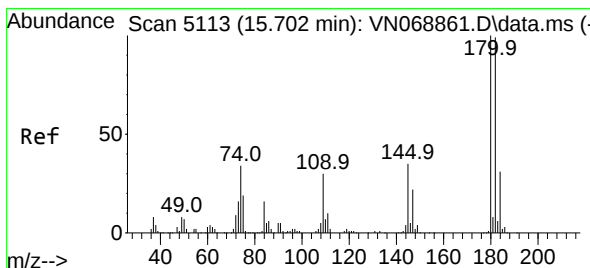
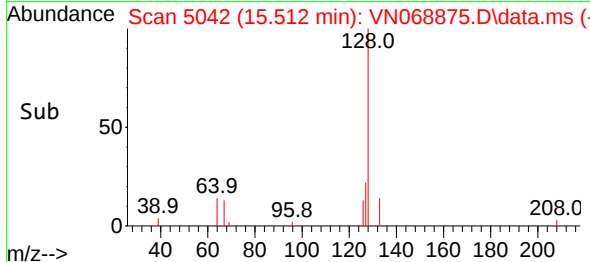
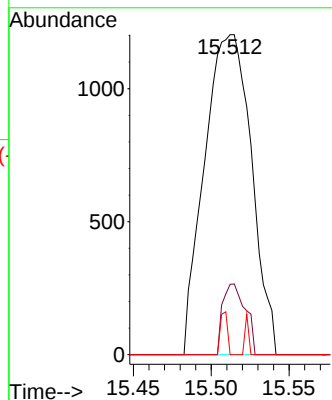
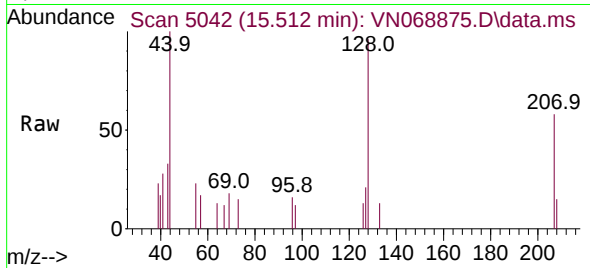




#95
Naphthalene
Concen: 4.023 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.005 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion:128 Resp: 2525
Ion Ratio Lower Upper
128 100
127 10.7 10.5 15.7
129 2.0 8.9 13.3#



#96
1,2,3-Trichlorobenzene
Concen: 2.651 ug/l
RT: 15.705 min Scan# 5114
Delta R.T. 0.003 min
Lab File: VN068875.D
Acq: 12 Oct 2021 21:06

Tgt Ion:180 Resp: 549
Ion Ratio Lower Upper
180 100
182 69.0 48.1 144.3
145 0.0 17.4 52.2#

