

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051721\
 Data File : VN067105.D
 Acq On : 17 May 2021 16:36
 Operator : JC/MD
 Sample : M2385-04 50X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 18 04:09:36 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051421W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 18 04:00:15 2021
 Response via : Initial Calibration

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

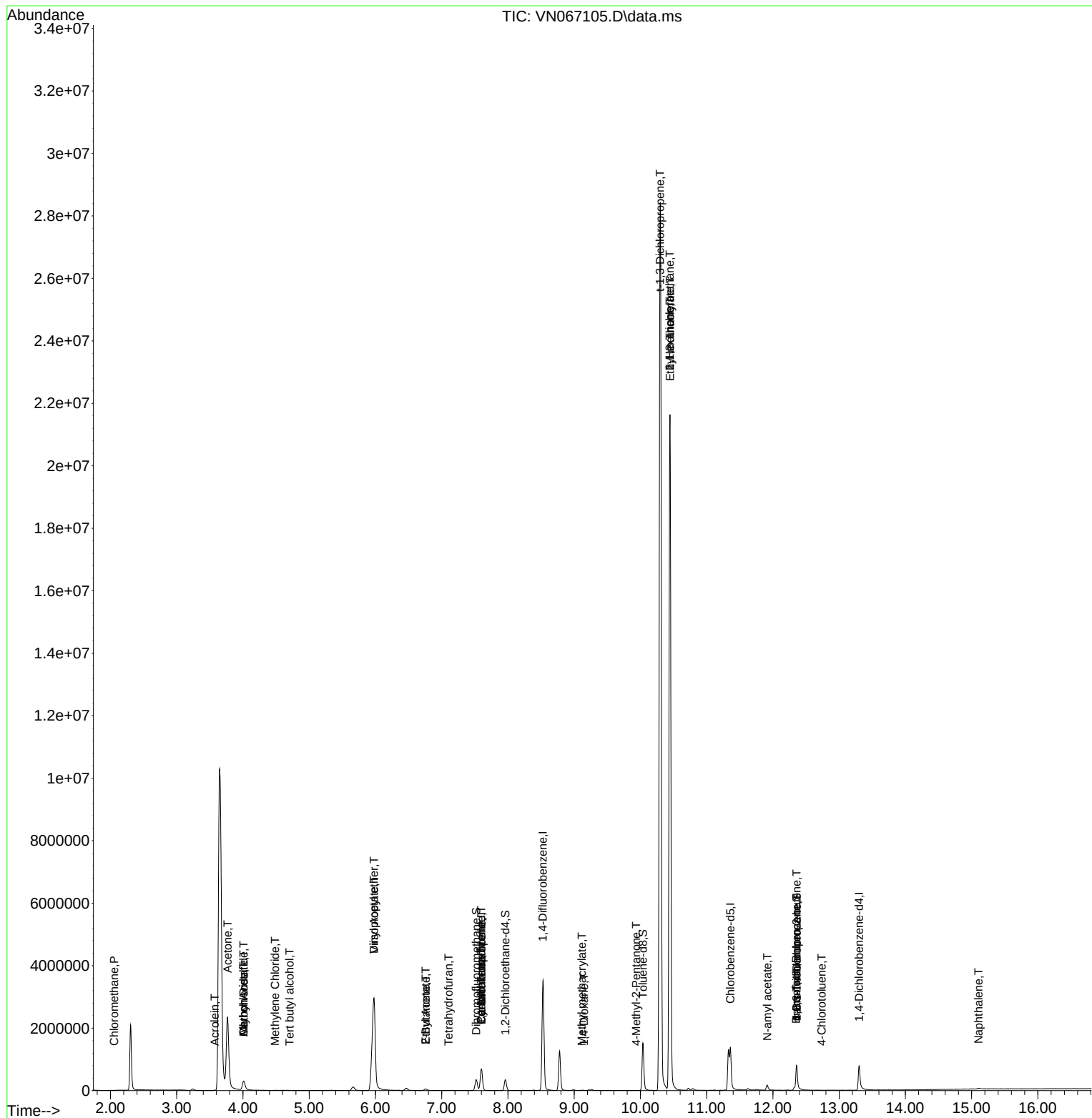
Internal Standards						
1) Pentafluorobenzene	7.600	168	659804	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.525	114	944424	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.360	117	795343	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.301	152	321104	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.962	65	308301	43.25	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	86.50%		
35) Dibromofluoromethane	7.522	113	281854	45.45	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	90.90%		
50) Toluene-d8	10.037	98	1097189	46.68	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	93.36%		
62) 4-Bromofluorobenzene	12.357	95	336156	42.70	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	85.40%		
Target Compounds						Qvalue
3) Chloromethane	2.056	50	2199	0.30	ug/l	94
11) Tert butyl alcohol	4.706	59	1533	1.29	ug/l #	56
13) Acrolein	3.574	56	12205	26.59	ug/l #	16
14) Allyl chloride	4.011	41	42238	4.42	ug/l #	68
16) Acetone	3.767	43	3732862	1684.97	ug/l	90
17) Carbon Disulfide	4.008	76	3412	0.21	ug/l #	79
18) Methyl Acetate	4.011	43	100790	15.30	ug/l #	48
20) Methylene Chloride	4.486	84	4514	0.70	ug/l	99
22) Diisopropyl ether	5.977	45	273274	15.47	ug/l #	1
23) Vinyl Acetate	5.977	43	613539	39.80	ug/l #	69
25) 2-Butanone	6.757	43	79140	22.91	ug/l	100
29) Tetrahydrofuran	7.103	42	600	0.28	ug/l #	46
31) Cyclohexane	7.600	56	9819	1.00	ug/l #	1
36) 1,1-Dichloropropene	7.602	75	38892	4.51	ug/l #	48
37) Ethyl Acetate	6.757	43	79140	10.40	ug/l #	66
38) Carbon Tetrachloride	7.600	117	54710	5.97	ug/l #	15
48) Methyl methacrylate	9.115	41	2615	2.36	ug/l #	33
49) 1,4-Dioxane	9.150	88	25	0.28	ug/l #	27
51) 4-Methyl-2-Pentanone	9.938	43	3429	5.84	ug/l	91
53) t-1,3-Dichloropropene	10.298	75	101207	10.03	ug/l #	44
55) 1,1,2-Trichloroethane	10.445	97	13173	1.96	ug/l #	1
56) Ethyl methacrylate	10.448	69	24096	4.18	ug/l #	1
59) 2-Hexanone	10.445	43	1923583	380.13	ug/l	94
71) Bromoform	12.352	173	1624	2.02	ug/l #	1
74) N-amyl acetate	11.915	43	13031	2.92	ug/l #	76
76) 1,2,3-Trichloropropane	12.357	75	149284	22.03	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.357	75	149284	66.20	ug/l #	15
82) 4-Chlorotoluene	12.738	91	322	1.20	ug/l #	39
95) Naphthalene	15.104	128	24314	4.92	ug/l #	92

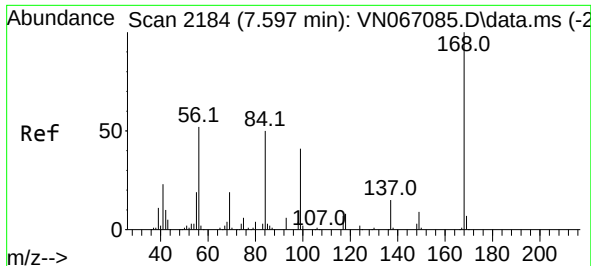
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 18 04:09:36 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051421W.M
Quant Title : SW846 8260
QLast Update : Tue May 18 04:00:15 2021
Response via : Initial Calibration

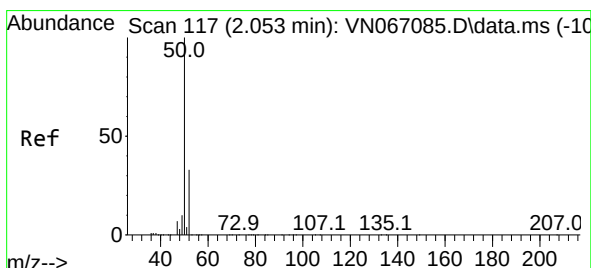
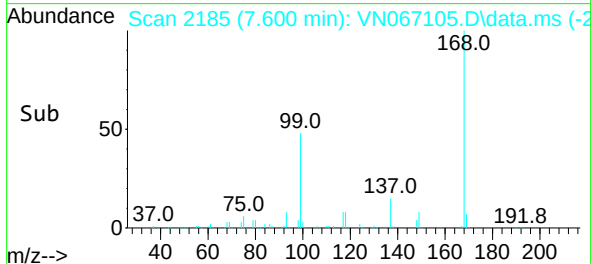
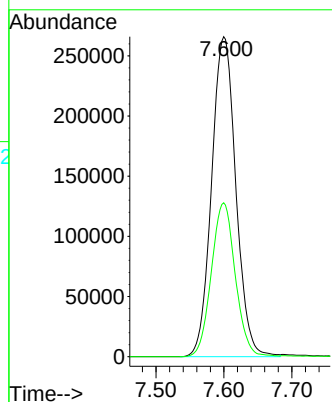
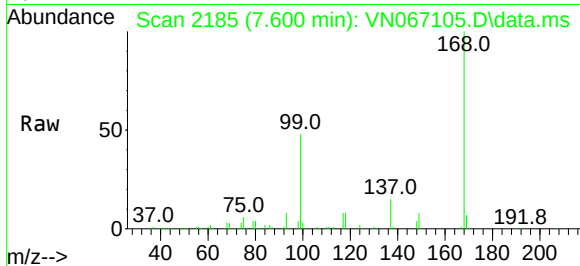




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.600 min Scan# 2185
Delta R.T. 0.003 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

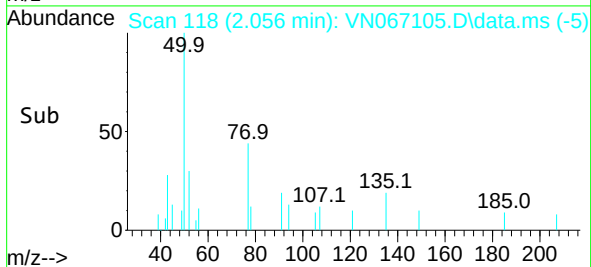
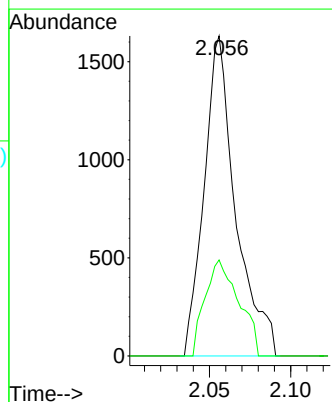
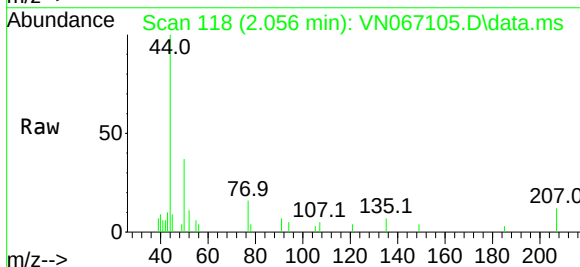
Instrument :
MSVOA_N
ClientSampleId :

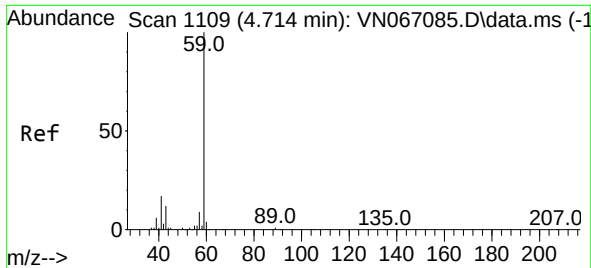
Tgt Ion:168 Resp: 659804
Ion Ratio Lower Upper
168 100
99 48.1 38.5 57.7



#3
Chloromethane
Concen: 0.30 ug/l
RT: 2.056 min Scan# 118
Delta R.T. 0.003 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

Tgt Ion: 50 Resp: 2199
Ion Ratio Lower Upper
50 100
52 30.0 26.5 39.7



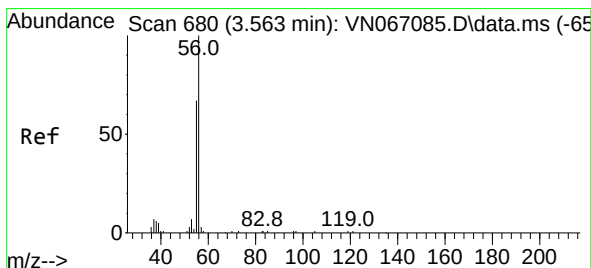
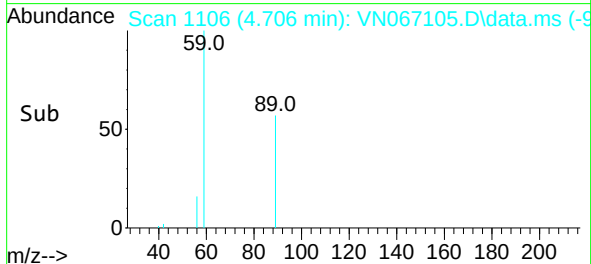
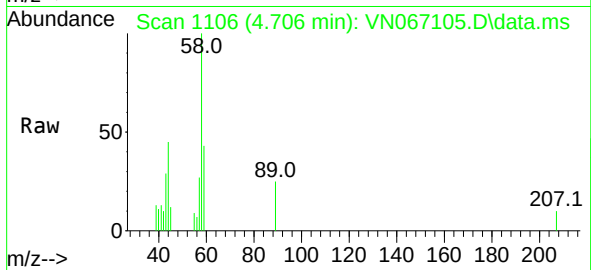


#11

Tert butyl alcohol
Concen: 1.29 ug/l
RT: 4.706 min Scan# 1106
Delta R.T. -0.008 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

Instrument :
MSVOA_N
ClientSampled :

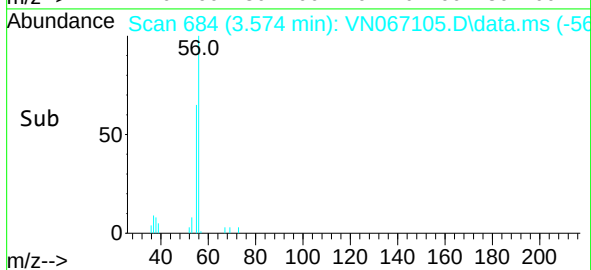
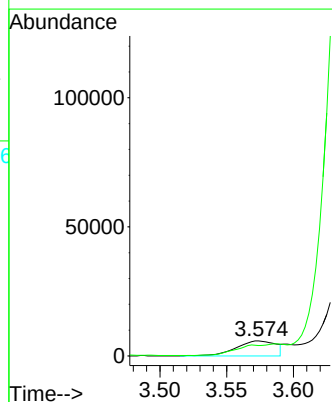
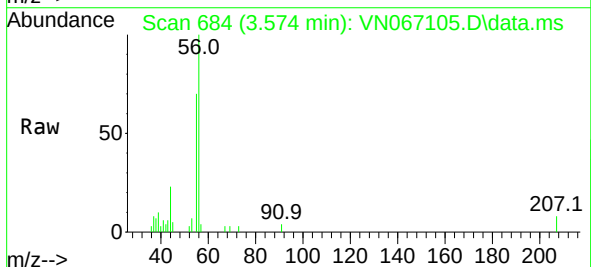
Tgt Ion: 59 Resp: 1533
Ion Ratio Lower Upper
59 100
57 19.0 3.5 5.3#

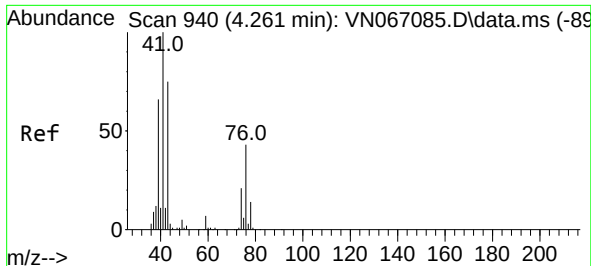


#13

Acrolein
Concen: 26.59 ug/l
RT: 3.574 min Scan# 684
Delta R.T. 0.011 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

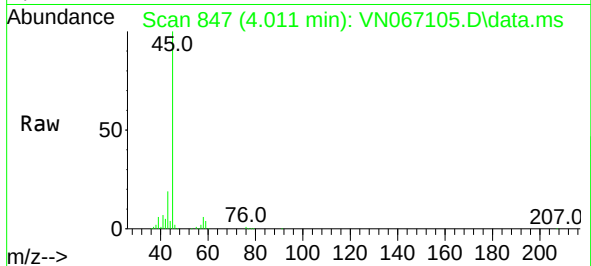
Tgt Ion: 56 Resp: 12205
Ion Ratio Lower Upper
56 100
55 0.0 53.8 80.6#



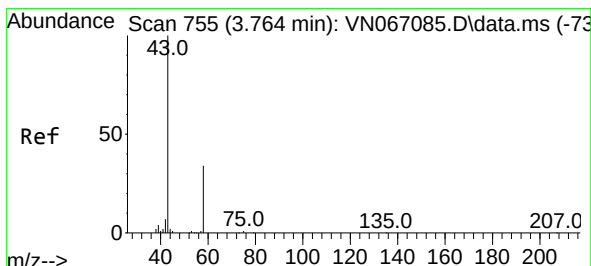
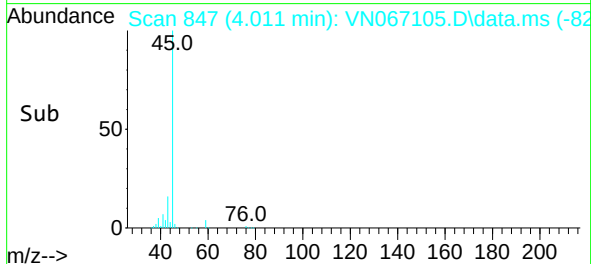
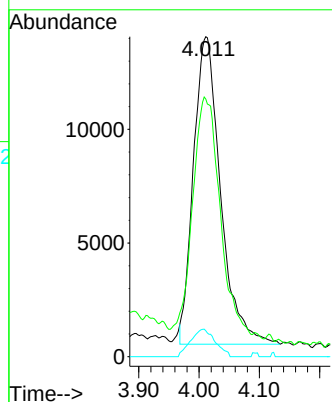


#14
 Allyl chloride
 Concen: 4.42 ug/l
 RT: 4.011 min Scan# 847
 Delta R.T. -0.250 min
 Lab File: VN067105.D
 Acq: 17 May 2021 16:36

Instrument :
 MSVOA_N
 ClientSampled :

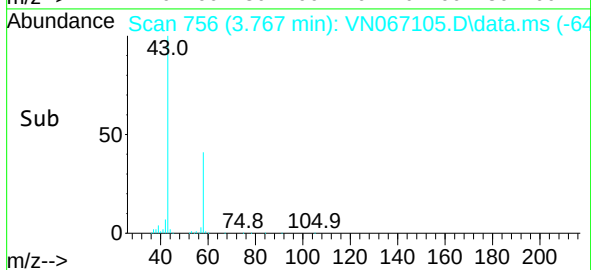
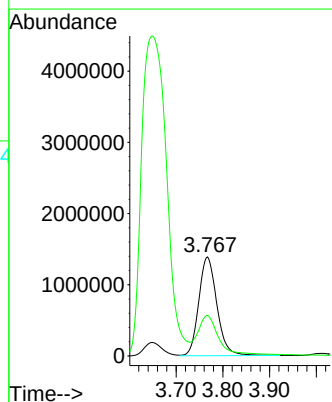
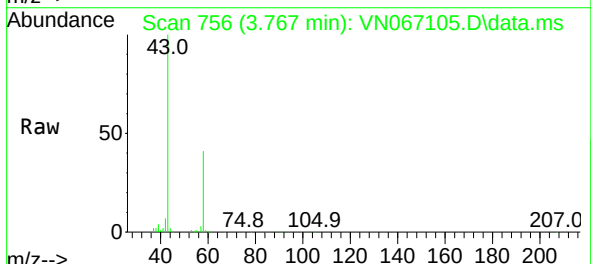


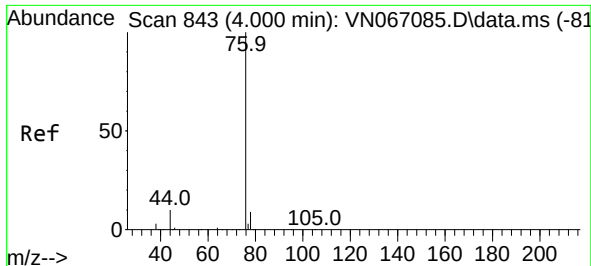
Tgt Ion: 41 Resp: 42238
 Ion Ratio Lower Upper
 41 100
 39 76.0 48.7 73.1#
 76 8.0 31.4 47.2#



#16
 Acetone
 Concen: 1684.97 ug/l
 RT: 3.767 min Scan# 756
 Delta R.T. 0.003 min
 Lab File: VN067105.D
 Acq: 17 May 2021 16:36

Tgt Ion: 43 Resp: 3732862
 Ion Ratio Lower Upper
 43 100
 58 39.5 27.2 40.8

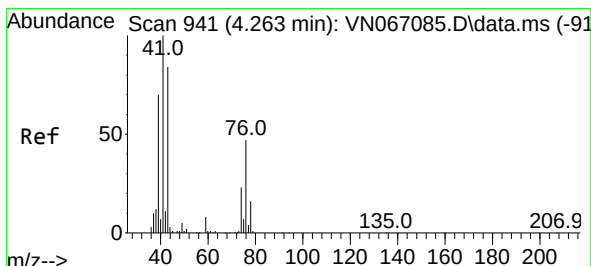
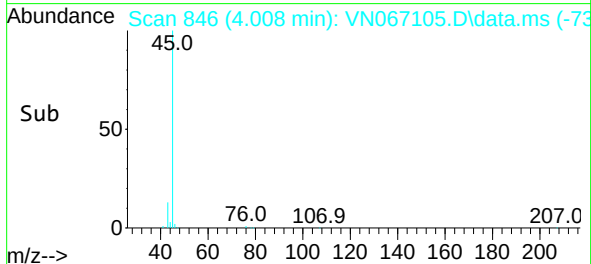
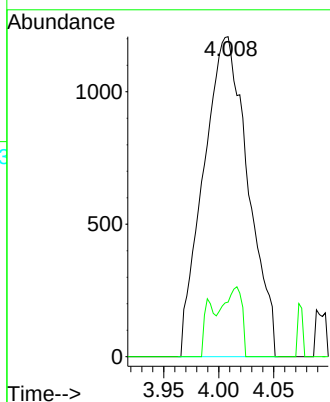
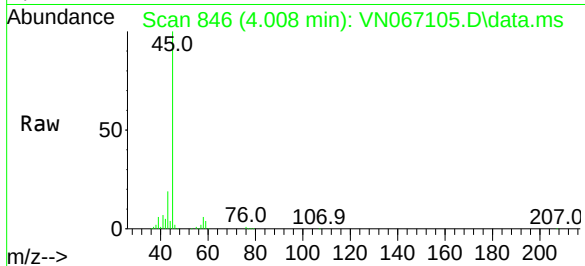




#17
Carbon Disulfide
Concen: 0.21 ug/l
RT: 4.008 min Scan# 846
Delta R.T. 0.008 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

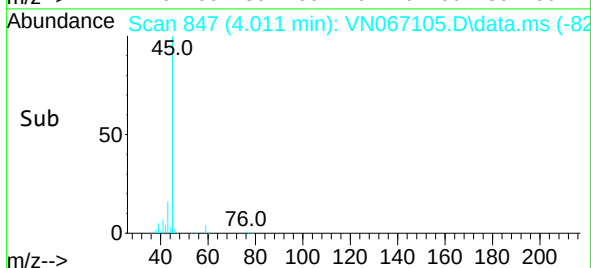
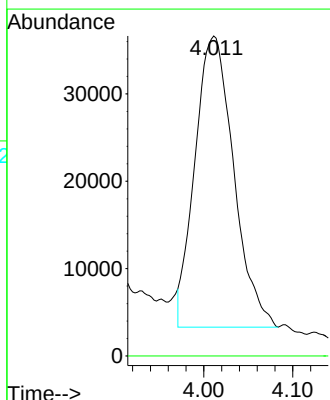
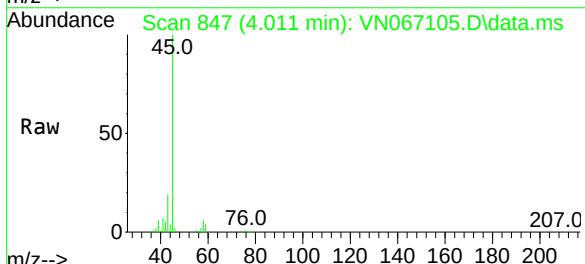
Instrument :
MSVOA_N
ClientSampled :

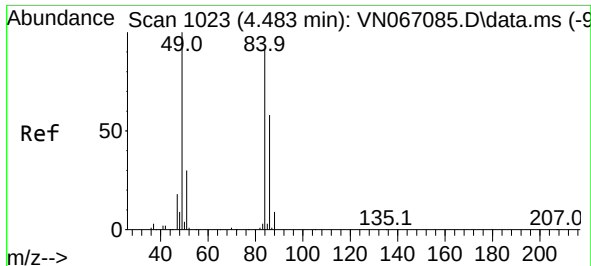
Tgt Ion: 76 Resp: 3412
Ion Ratio Lower Upper
76 100
78 17.1 7.5 11.3#



#18
Methyl Acetate
Concen: 15.30 ug/l
RT: 4.011 min Scan# 847
Delta R.T. -0.252 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

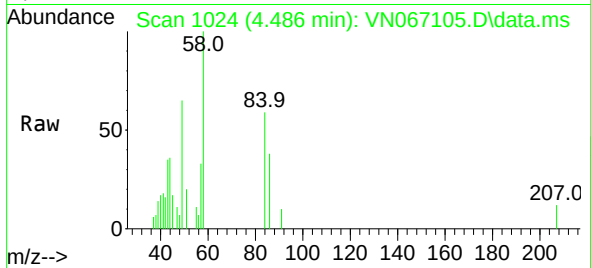
Tgt Ion: 43 Resp: 100790
Ion Ratio Lower Upper
43 100
74 0.0 21.4 32.2#



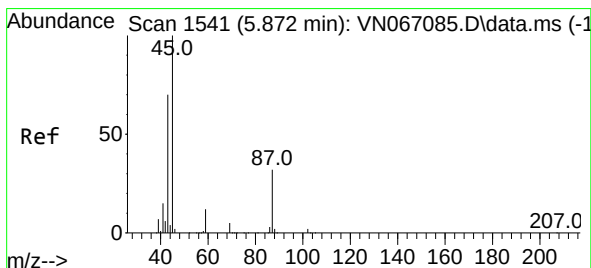
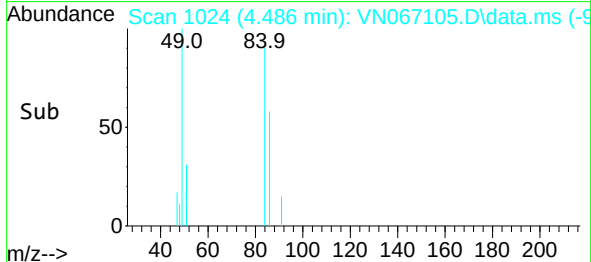
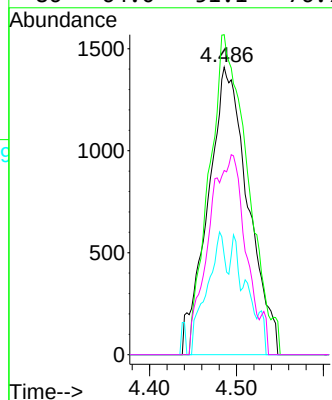


#20
Methylene Chloride
Concen: 0.70 ug/l
RT: 4.486 min Scan# 1024
Delta R.T. 0.003 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

Instrument :
MSVOA_N
ClientSampleId :

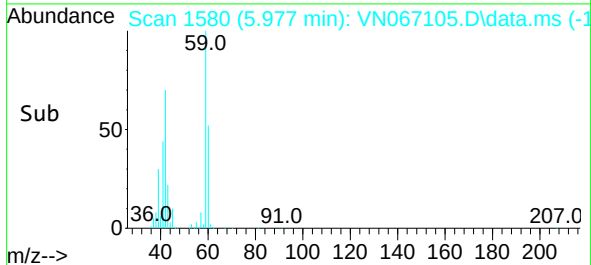
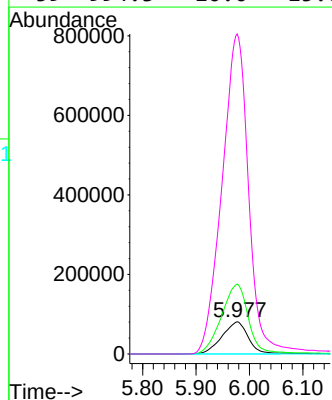
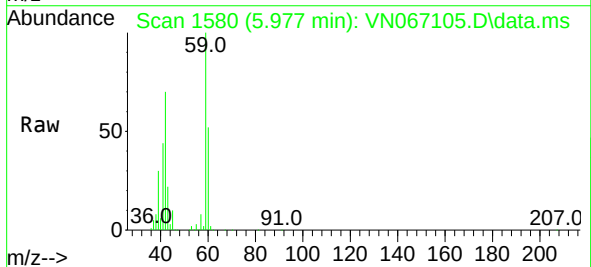


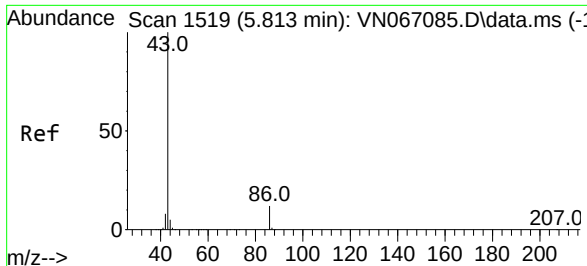
Tgt Ion:	84	Resp:	4514
Ion	Ratio	Lower	Upper
84	100		
49	111.3	88.3	132.5
51	34.5	26.7	40.1
86	64.0	51.1	76.7



#22
Diisopropyl ether
Concen: 15.47 ug/l
RT: 5.977 min Scan# 1580
Delta R.T. 0.105 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

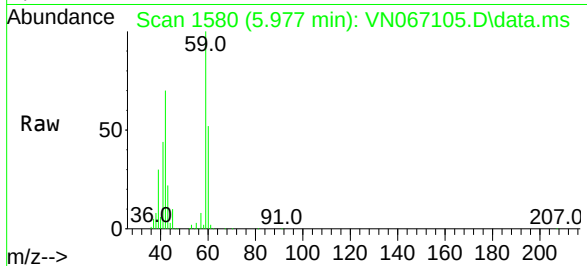
Tgt Ion:	45	Resp:	273274
Ion	Ratio	Lower	Upper
45	100		
43	216.9	55.6	83.4#
87	0.0	26.5	39.7#
59	994.3	10.0	15.0#



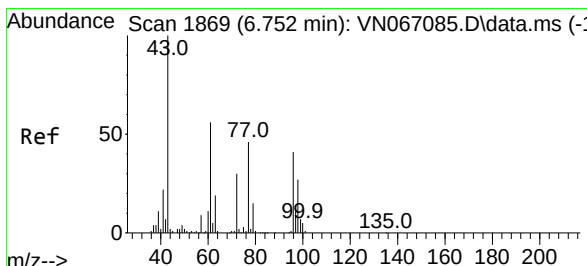
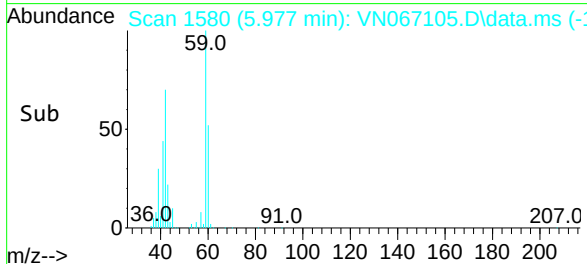
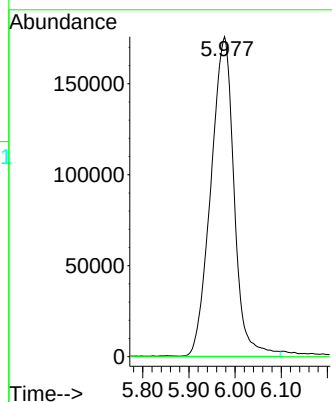


#23
 Vinyl Acetate
 Concen: 39.80 ug/l
 RT: 5.977 min Scan# 1580
 Delta R.T. 0.164 min
 Lab File: VN067105.D
 Acq: 17 May 2021 16:36

Instrument :
 MSVOA_N
 ClientSampleId :

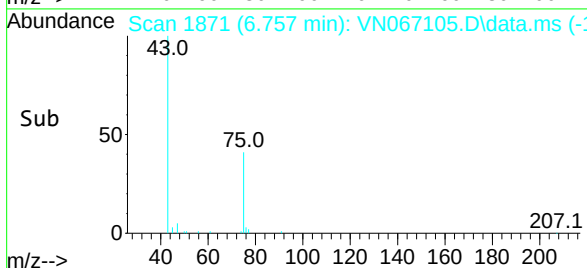
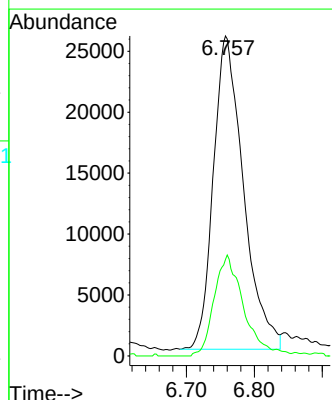
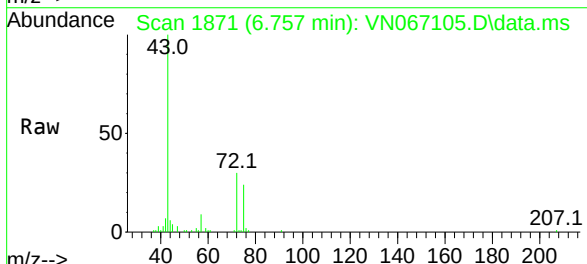


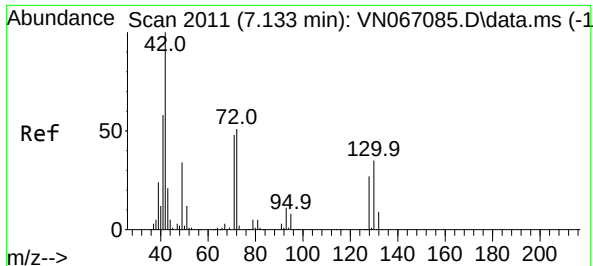
Tgt Ion: 43 Resp: 613539
 Ion Ratio Lower Upper
 43 100
 86 0.0 9.5 14.3#



#25
 2-Butanone
 Concen: 22.91 ug/l
 RT: 6.757 min Scan# 1871
 Delta R.T. 0.005 min
 Lab File: VN067105.D
 Acq: 17 May 2021 16:36

Tgt Ion: 43 Resp: 79140
 Ion Ratio Lower Upper
 43 100
 72 30.8 24.4 36.6





#29

Tetrahydrofuran

Concen: 0.28 ug/l

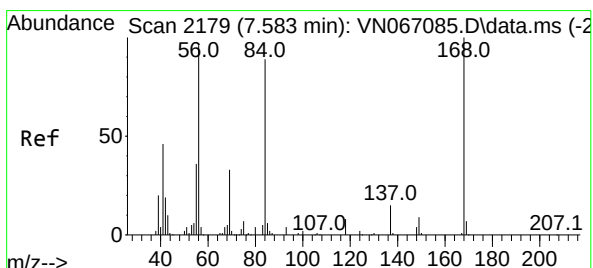
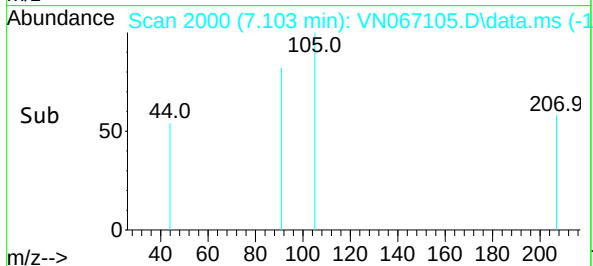
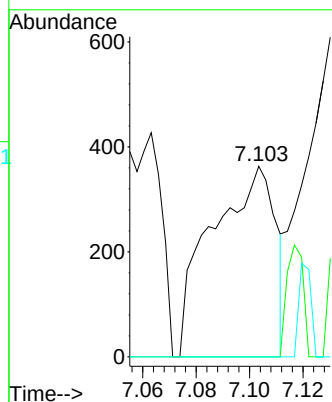
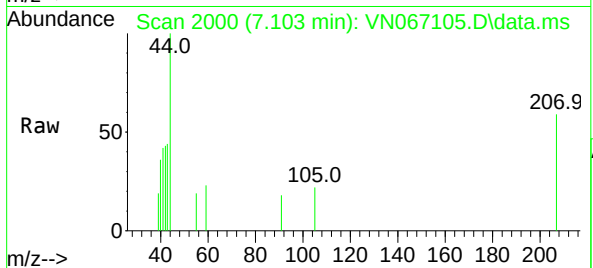
RT: 7.103 min Scan# 2000

Delta R.T. -0.030 min

Lab File: VN067105.D

Acq: 17 May 2021 16:36

Tgt Ion:	42	Resp:	600
Ion	Ratio	Lower	Upper
42	100		
72	15.2	40.1	60.1#
71	9.2	37.9	56.9#



#31

Cyclohexane

Concen: 1.00 ug/l

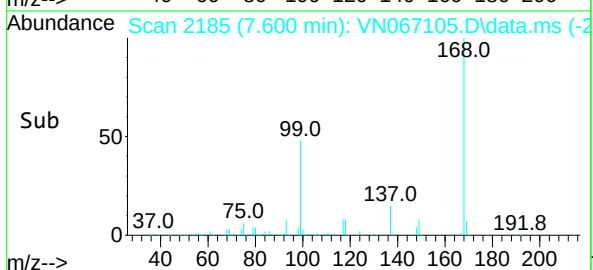
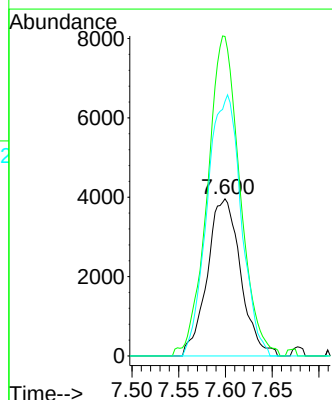
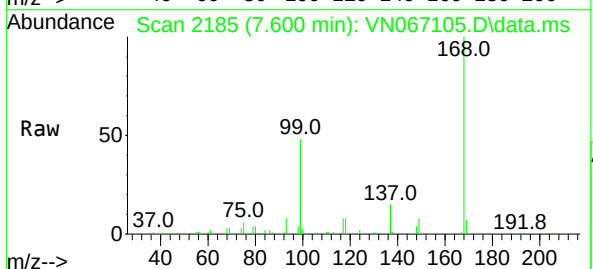
RT: 7.600 min Scan# 2185

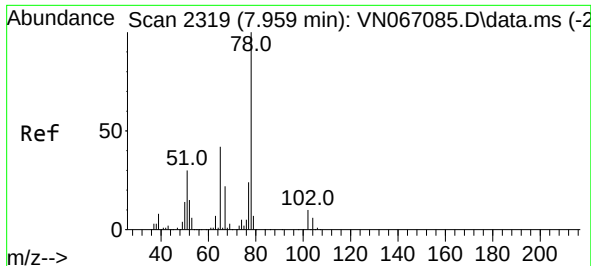
Delta R.T. 0.017 min

Lab File: VN067105.D

Acq: 17 May 2021 16:36

Tgt Ion:	56	Resp:	9819
Ion	Ratio	Lower	Upper
56	100		
69	203.3	28.0	42.0#
84	161.9	74.2	111.2#

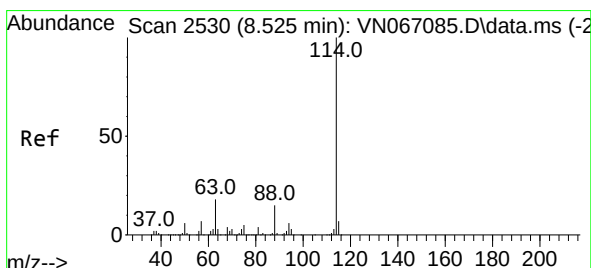
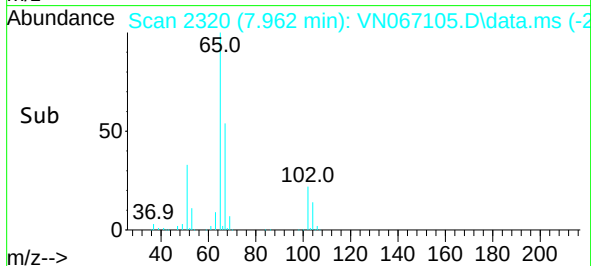
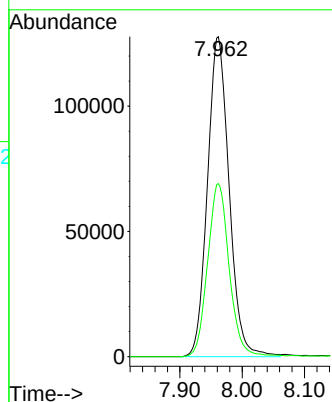
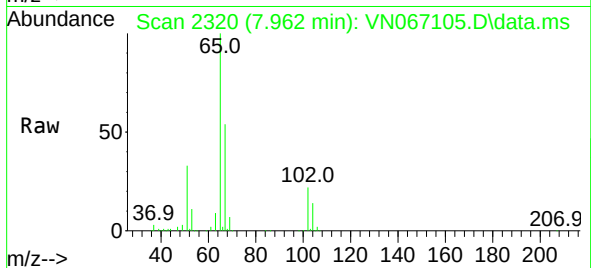




#33
1,2-Dichloroethane-d4
Concen: 43.25 ug/l
RT: 7.962 min Scan# 2320
Delta R.T. 0.003 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

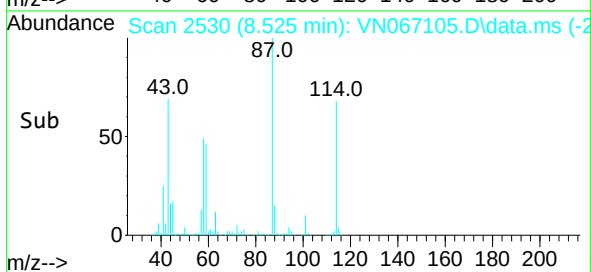
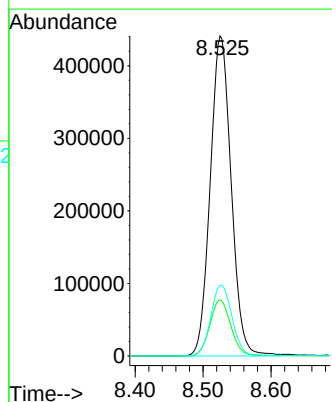
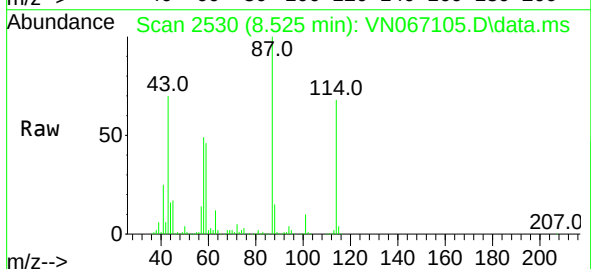
Instrument :
MSVOA_N
ClientSampleId :

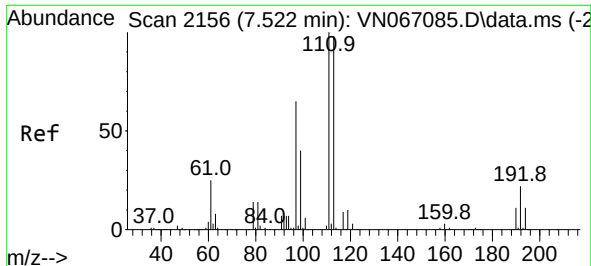
Tgt Ion: 65 Resp: 308301
Ion Ratio Lower Upper
65 100
67 54.0 0.0 110.4



#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.525 min Scan# 2530
Delta R.T. -0.000 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

Tgt Ion: 114 Resp: 944424
Ion Ratio Lower Upper
114 100
63 17.5 0.0 35.8
88 22.1 0.0 30.4



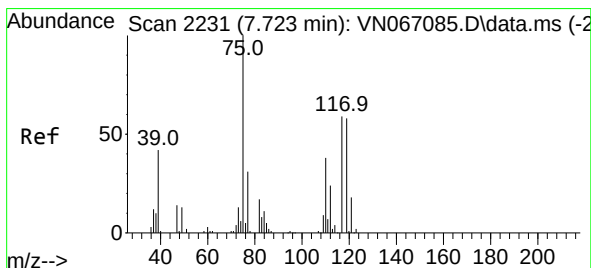
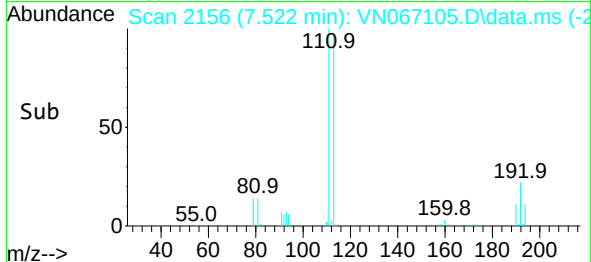
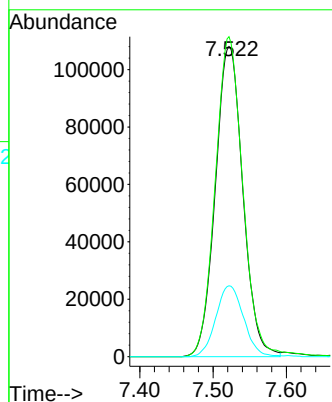
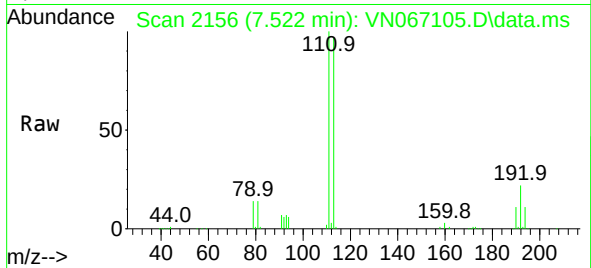


#35
 Dibromofluoromethane
 Concen: 45.45 ug/l
 RT: 7.522 min Scan# 2156
 Delta R.T. -0.000 min
 Lab File: VN067105.D
 Acq: 17 May 2021 16:36

Instrument :
 MSVOA_N
 ClientSampleId :

Tgt Ion: 113 Resp: 281854

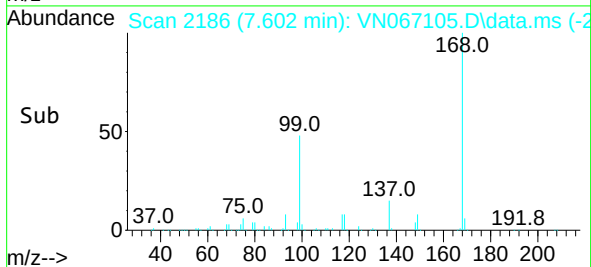
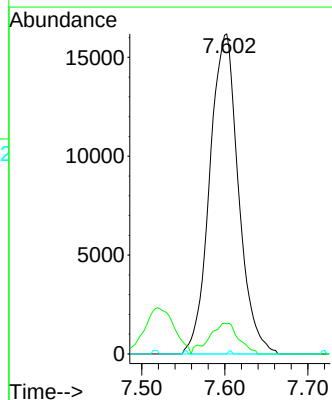
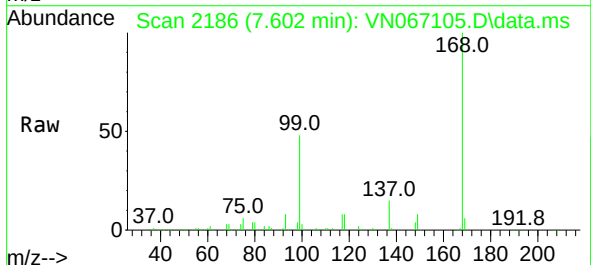
Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.6	124.0
192	23.1	18.2	27.4

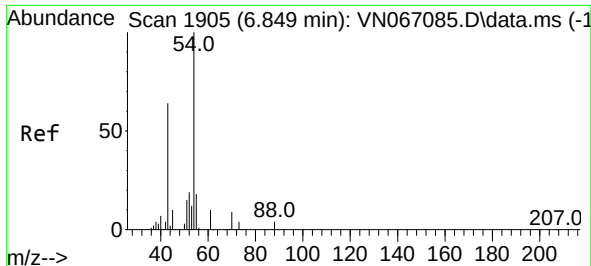


#36
 1,1-Dichloropropene
 Concen: 4.51 ug/l
 RT: 7.602 min Scan# 2186
 Delta R.T. -0.121 min
 Lab File: VN067105.D
 Acq: 17 May 2021 16:36

Tgt Ion: 75 Resp: 38892

Ion	Ratio	Lower	Upper
75	100		
110	8.9	19.1	57.3#
77	0.1	24.8	37.2#





#37

Ethyl Acetate

Concen: 10.40 ug/l

RT: 6.757 min Scan# 1871

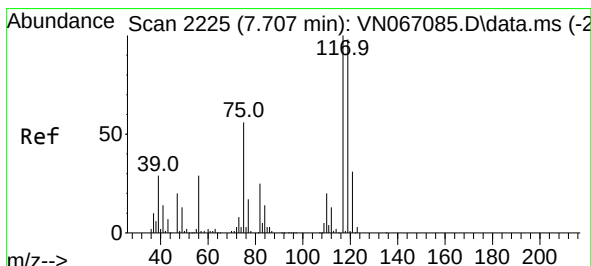
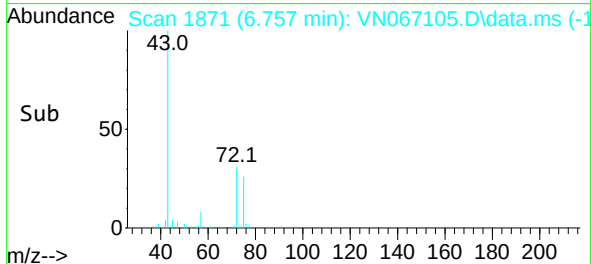
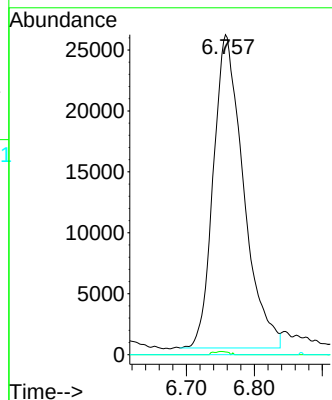
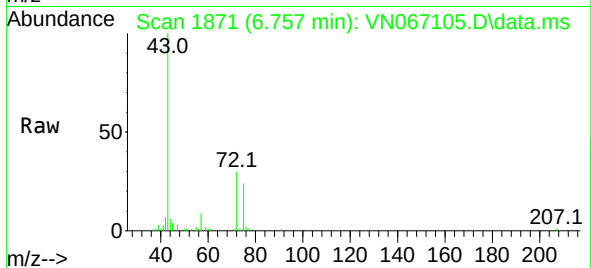
Delta R.T. -0.092 min

Lab File: VN067105.D

Acq: 17 May 2021 16:36

Tgt Ion:	43	Resp:	79140
Ion	Ratio	Lower	Upper
43	100		
61	0.5	13.0	19.4#
70	0.0	9.2	13.8#

Instrument :
MSVOA_N
ClientSampleId :



#38

Carbon Tetrachloride

Concen: 5.97 ug/l

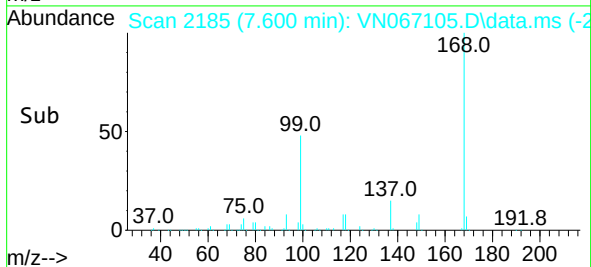
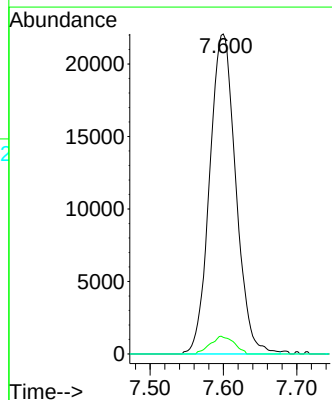
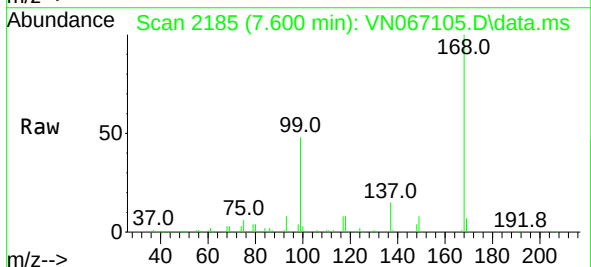
RT: 7.600 min Scan# 2185

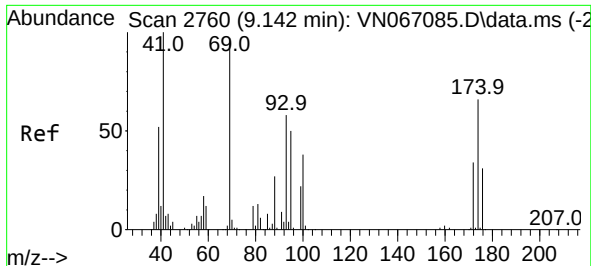
Delta R.T. -0.107 min

Lab File: VN067105.D

Acq: 17 May 2021 16:36

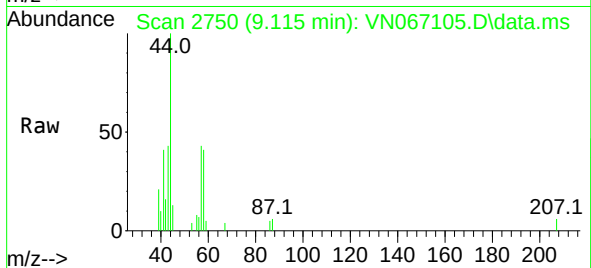
Tgt Ion:	117	Resp:	54710
Ion	Ratio	Lower	Upper
117	100		
119	5.2	78.2	117.2#
121	0.0	24.7	37.1#



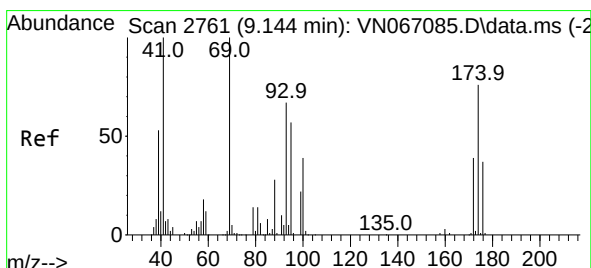
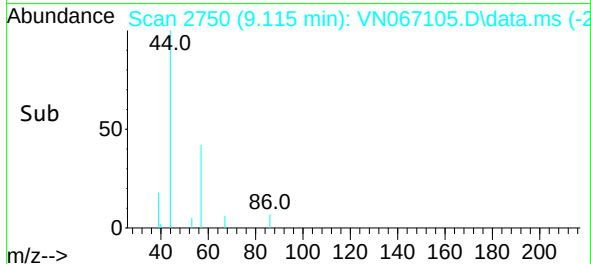
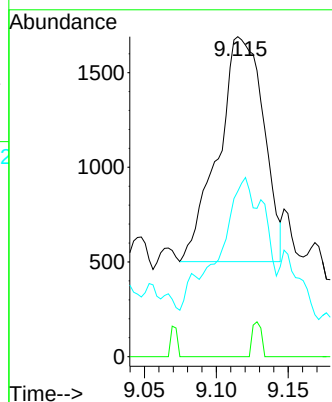


#48
Methyl methacrylate
Concen: 2.36 ug/l
RT: 9.115 min Scan# 2750
Delta R.T. -0.027 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

Instrument :
MSVOA_N
ClientSampled :

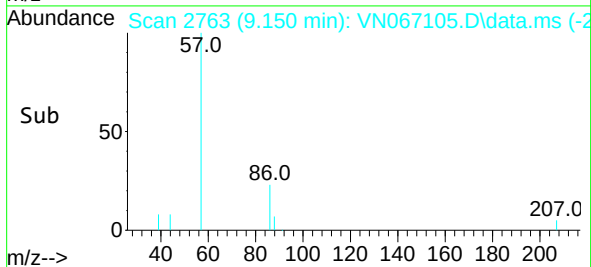
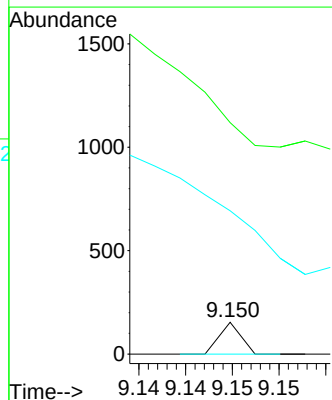
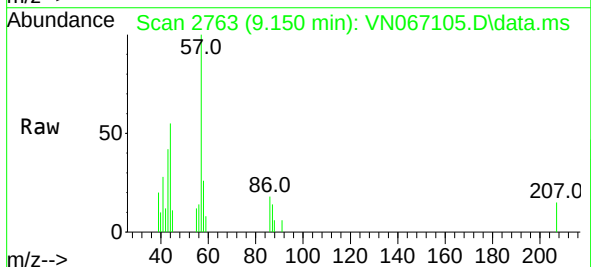


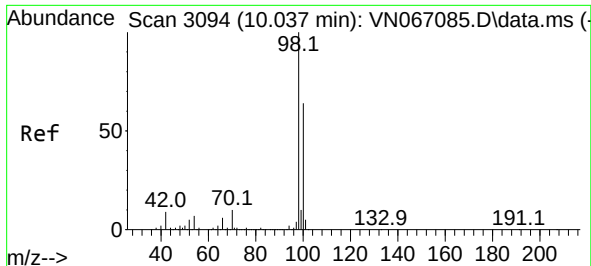
Tgt Ion: 41 Resp: 2615
Ion Ratio Lower Upper
41 100
69 3.1 80.5 120.7#
39 45.5 41.4 62.0



#49
1,4-Dioxane
Concen: 0.28 ug/l
RT: 9.150 min Scan# 2763
Delta R.T. 0.006 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

Tgt Ion: 88 Resp: 25
Ion Ratio Lower Upper
88 100
43 0.0 21.8 32.8#
58 0.0 50.8 76.2#

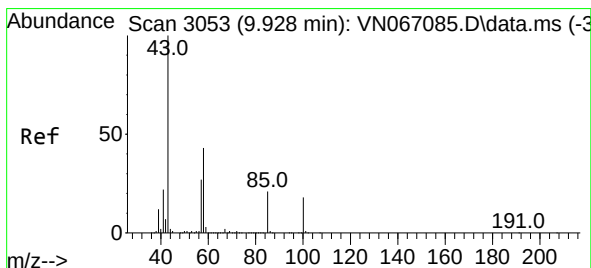
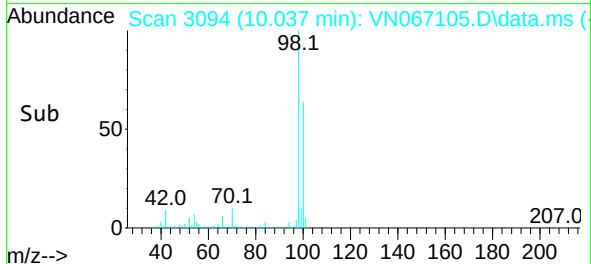
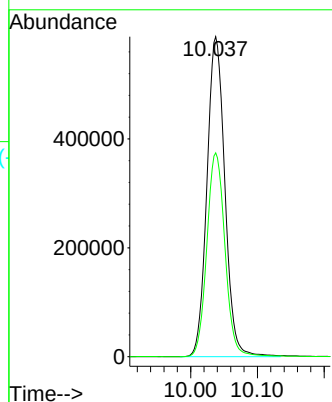
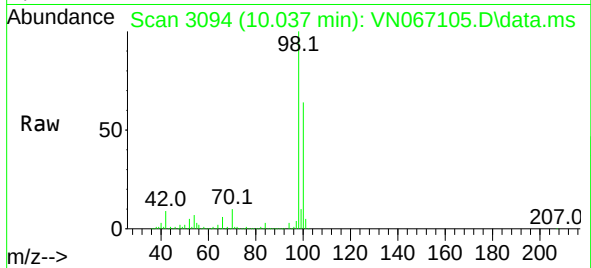




#50
Toluene-d8
Concen: 46.68 ug/l
RT: 10.037 min Scan# 3094
Delta R.T. 0.000 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

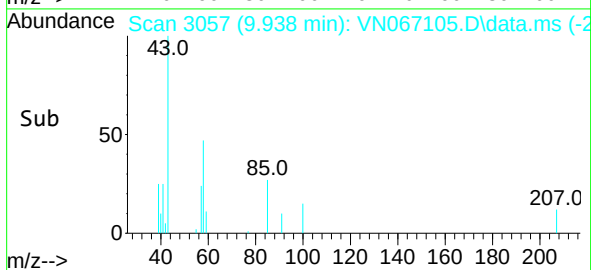
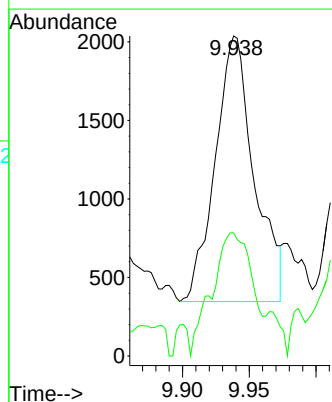
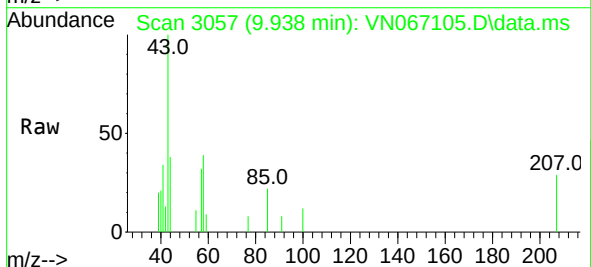
Instrument :
MSVOA_N
ClientSampled :

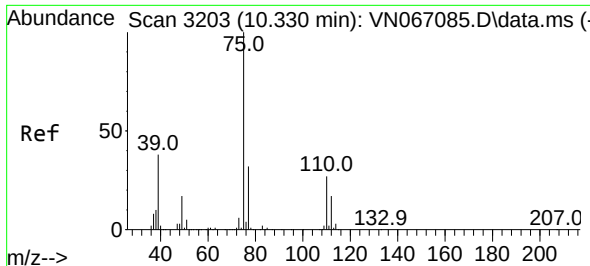
Tgt Ion: 98 Resp: 1097189
Ion Ratio Lower Upper
98 100
100 64.6 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 5.84 ug/l
RT: 9.938 min Scan# 3057
Delta R.T. 0.010 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

Tgt Ion: 43 Resp: 3429
Ion Ratio Lower Upper
43 100
58 48.6 34.5 51.7

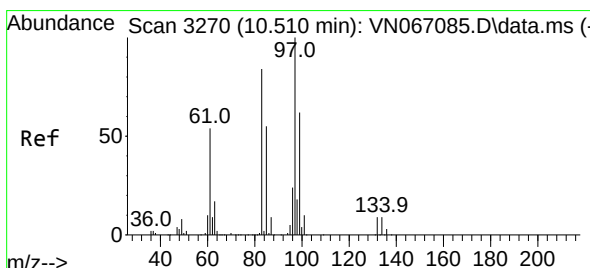
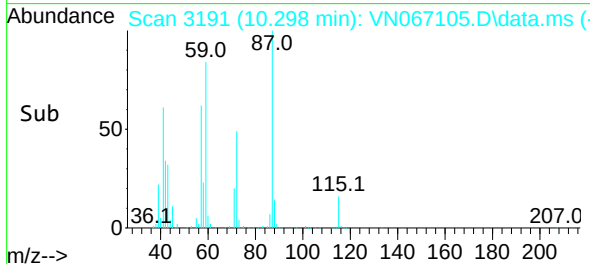
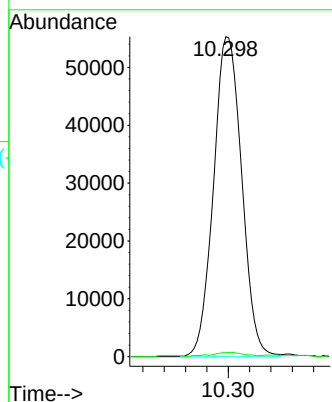
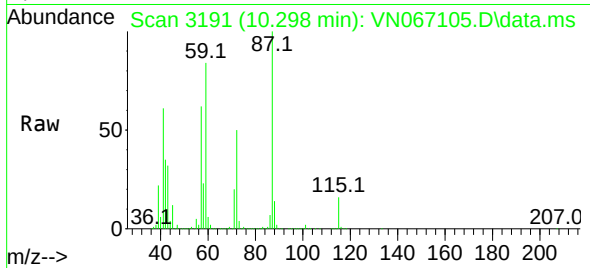




#53
t-1,3-Dichloropropene
Concen: 10.03 ug/l
RT: 10.298 min Scan# 3191
Delta R.T. -0.032 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

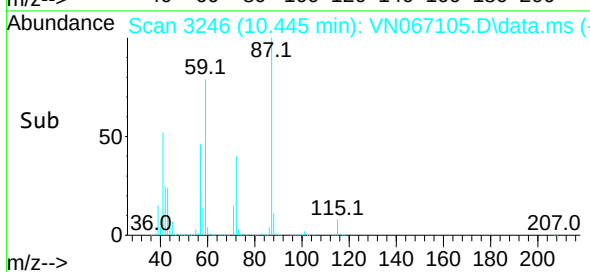
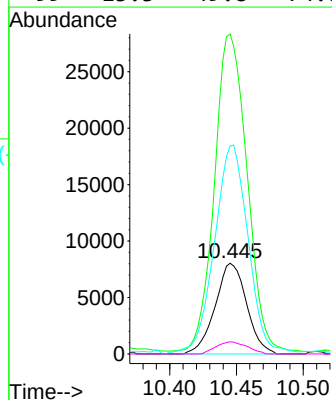
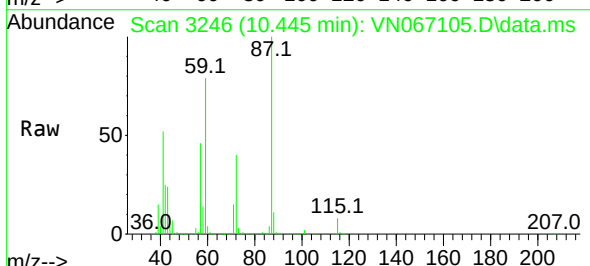
Instrument :
MSVOA_N
ClientSampled :

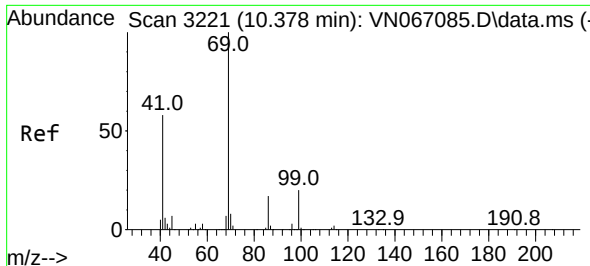
Tgt Ion: 75 Resp: 101207
Ion Ratio Lower Upper
75 100
77 0.9 25.5 38.3#



#55
1,1,2-Trichloroethane
Concen: 1.96 ug/l
RT: 10.445 min Scan# 3246
Delta R.T. -0.065 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

Tgt Ion: 97 Resp: 13173
Ion Ratio Lower Upper
97 100
83 348.3 67.3 100.9#
85 225.2 44.2 66.4#
99 13.3 49.8 74.8#

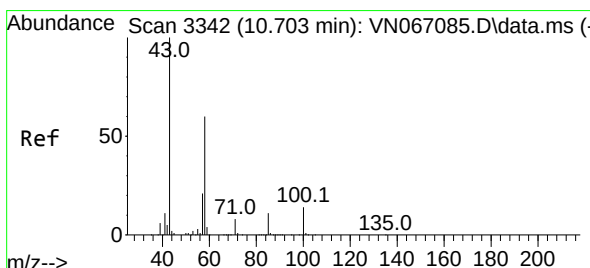
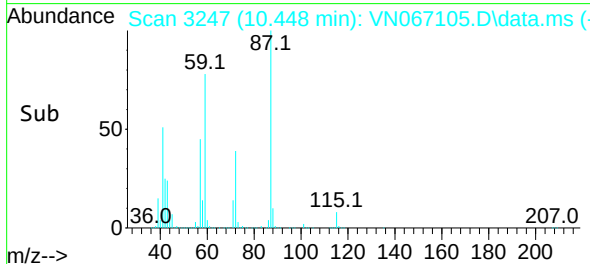
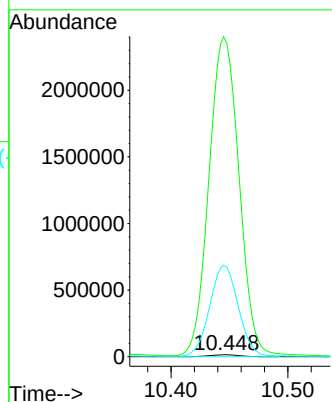
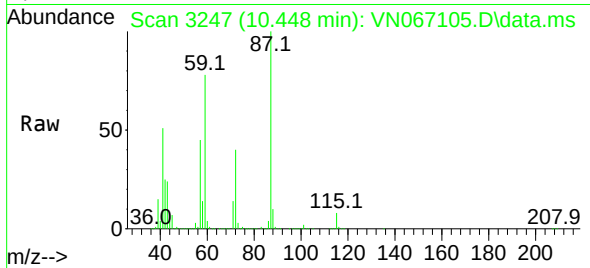




#56
Ethyl methacrylate
Concen: 4.18 ug/l
RT: 10.448 min Scan# 3247
Delta R.T. 0.070 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

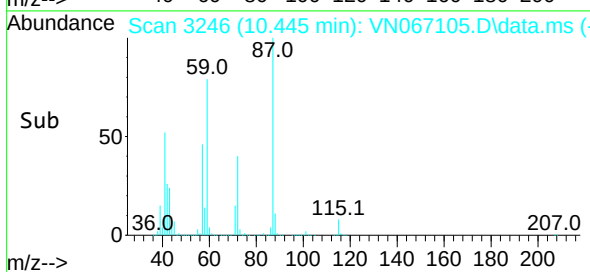
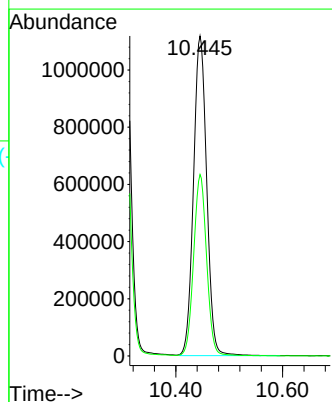
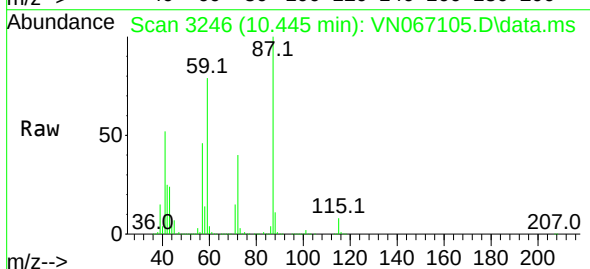
Instrument :
MSVOA_N
ClientSampleId :

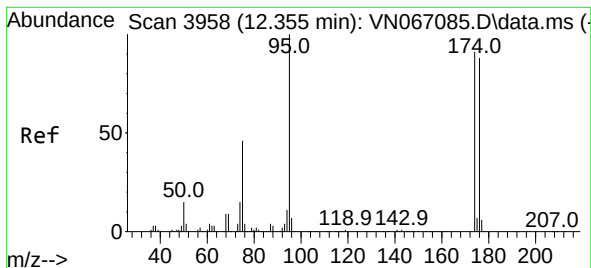
Tgt Ion: 69 Resp: 24096
Ion Ratio Lower Upper
69 100
41 17949.1 45.5 68.3#
39 4870.4 22.9 34.3#



#59
2-Hexanone
Concen: 380.13 ug/l
RT: 10.445 min Scan# 3246
Delta R.T. -0.258 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

Tgt Ion: 43 Resp: 1923583
Ion Ratio Lower Upper
43 100
58 55.3 29.8 89.5

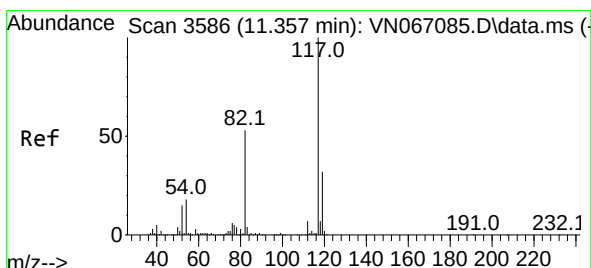
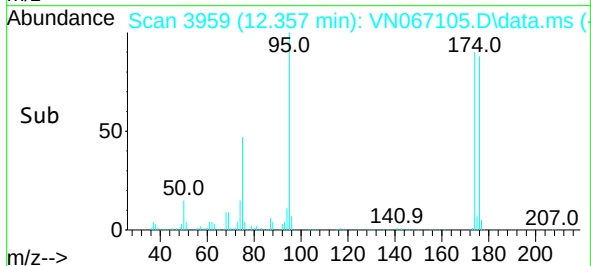
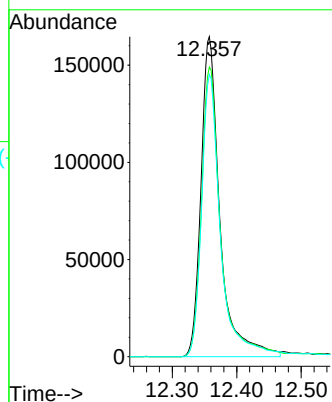
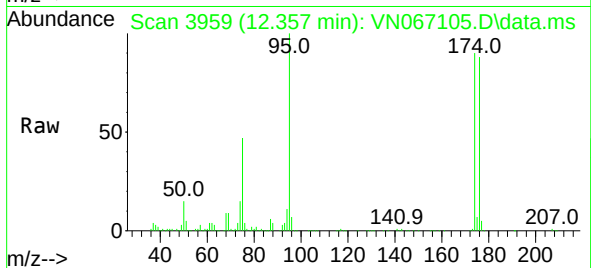




#62
4-Bromofluorobenzene
Concen: 42.70 ug/l
RT: 12.357 min Scan# 3959
Delta R.T. 0.002 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

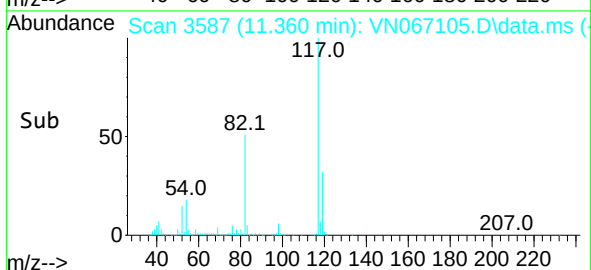
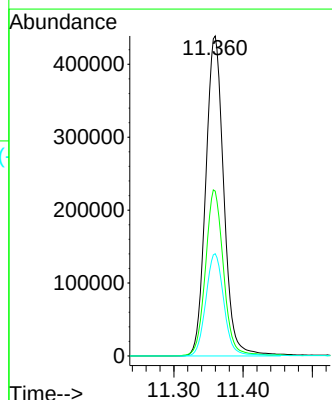
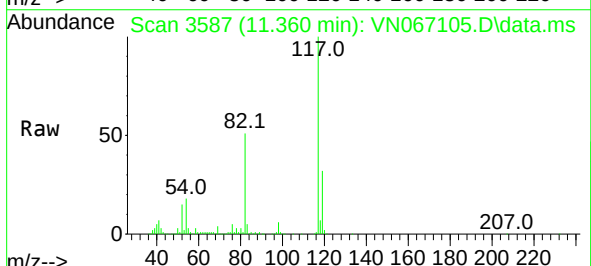
Instrument :
MSVOA_N
ClientSampleId :

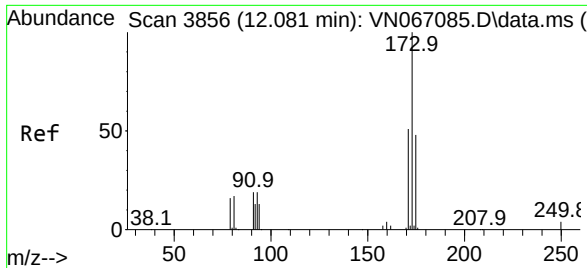
Tgt Ion: 95 Resp: 336156
Ion Ratio Lower Upper
95 100
174 91.4 0.0 182.8
176 88.4 0.0 176.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.360 min Scan# 3587
Delta R.T. 0.003 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

Tgt Ion: 117 Resp: 795343
Ion Ratio Lower Upper
117 100
82 51.4 42.2 63.2
119 31.9 25.8 38.6

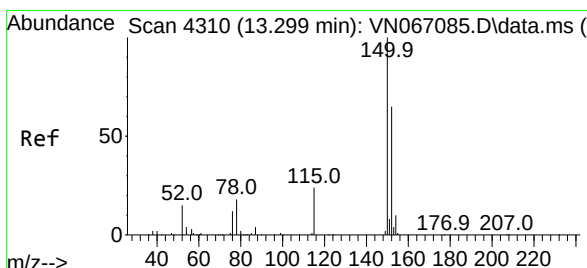
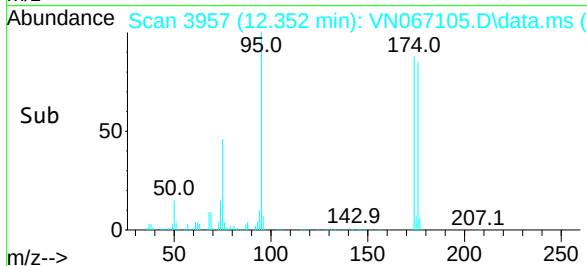
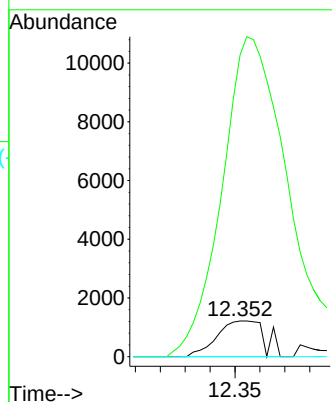
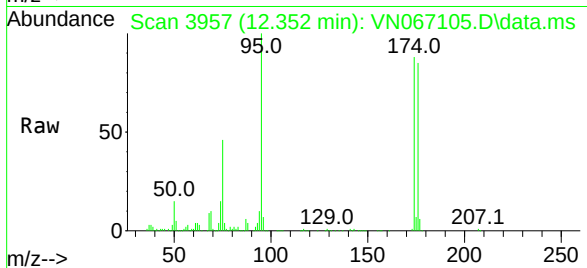




#71
Bromoform
Concen: 2.02 ug/l
RT: 12.352 min Scan# 3957
Delta R.T. 0.271 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

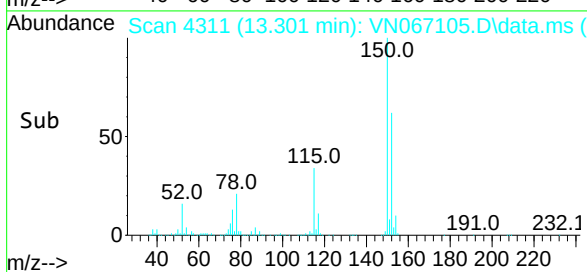
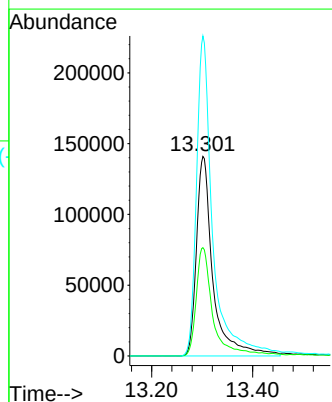
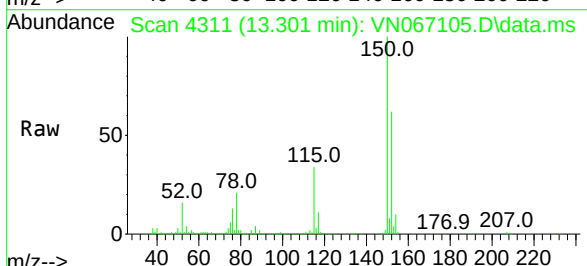
Instrument :
MSVOA_N
ClientSampleId :

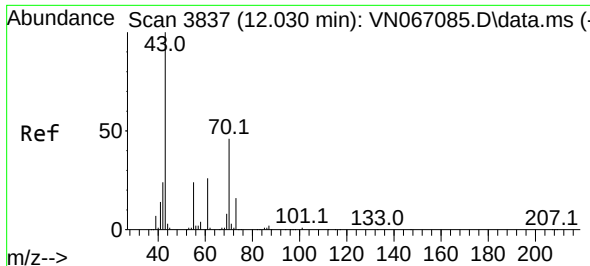
Tgt Ion:173 Resp: 1624
Ion Ratio Lower Upper
173 100
175 1044.2 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.301 min Scan# 4311
Delta R.T. 0.002 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

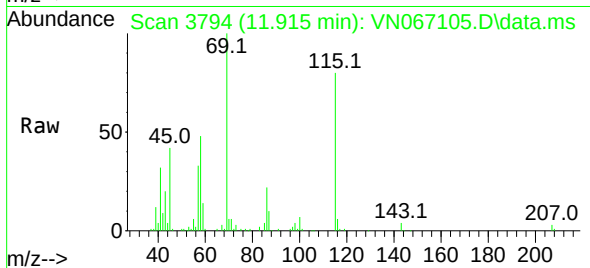
Tgt Ion:152 Resp: 321104
Ion Ratio Lower Upper
152 100
115 53.6 27.0 80.8
150 157.1 0.0 350.2



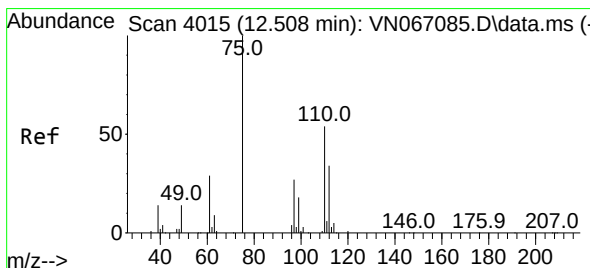
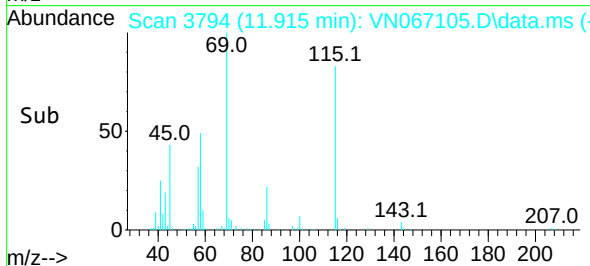
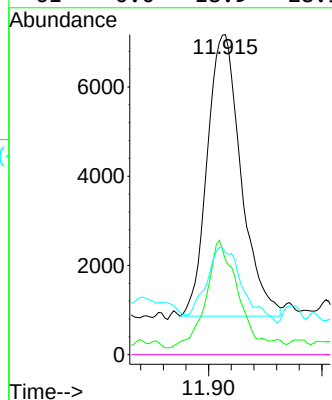


#74
N-amy1 acetate
Concen: 2.92 ug/l
RT: 11.915 min Scan# 3794
Delta R.T. -0.115 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

Instrument :
MSVOA_N
ClientSampleId :

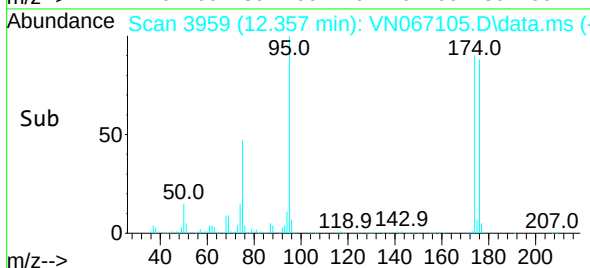
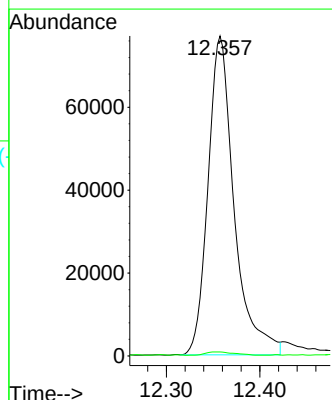
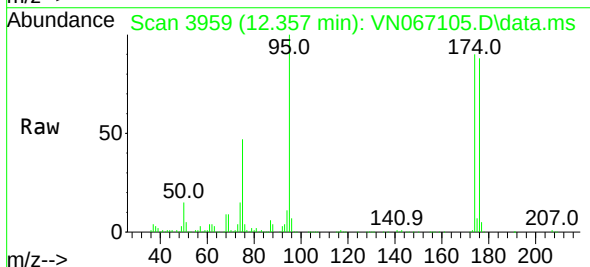


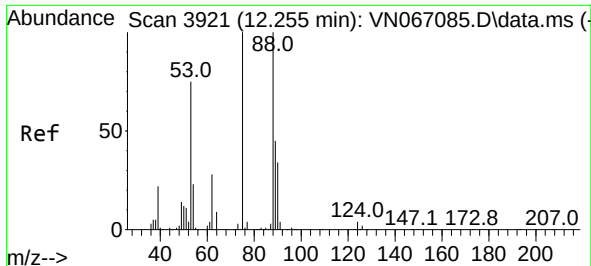
Tgt Ion: 43	Resp: 13031
Ion Ratio	Lower Upper
43 100	
70 35.3	36.7 55.1#
55 29.0	17.6 26.4#
61 0.0	18.9 28.3#



#76
1,2,3-Trichloropropane
Concen: 22.03 ug/l
RT: 12.357 min Scan# 3959
Delta R.T. -0.151 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

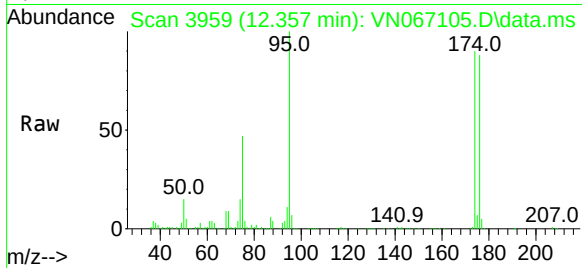
Tgt Ion: 75	Resp: 149284
Ion Ratio	Lower Upper
75 100	
77 1.1	0.0 0.0#



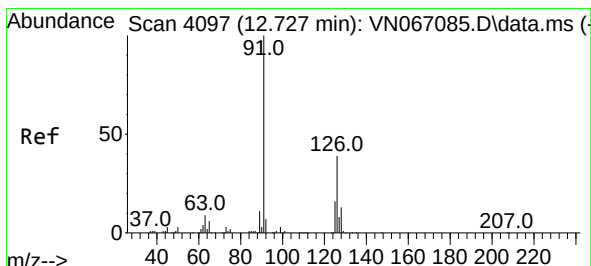
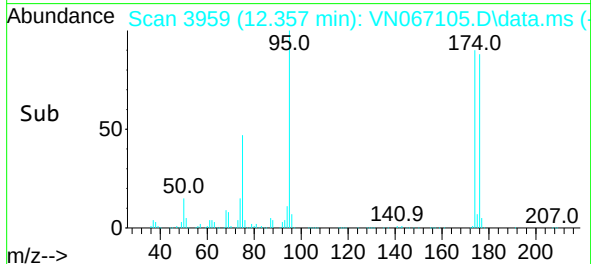
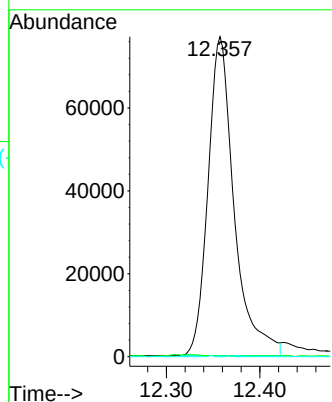


#81
trans-1,4-Dichloro-2-butene
Concen: 66.20 ug/l
RT: 12.357 min Scan# 3959
Delta R.T. 0.102 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

Instrument :
MSVOA_N
ClientSampleId :

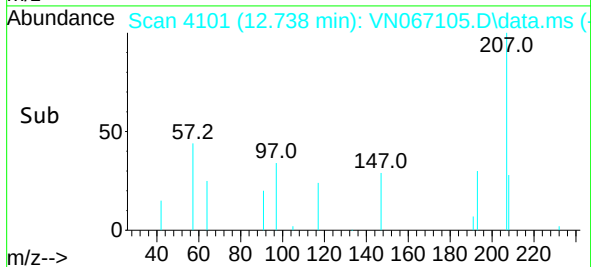
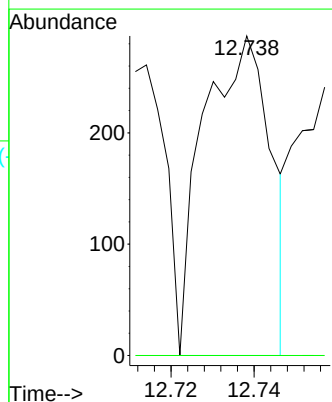
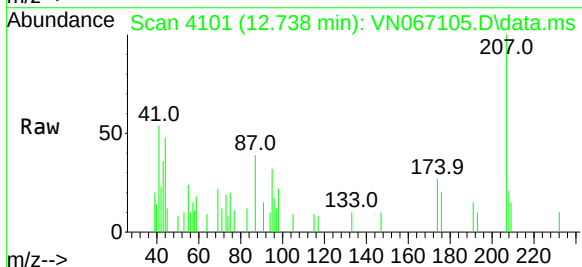


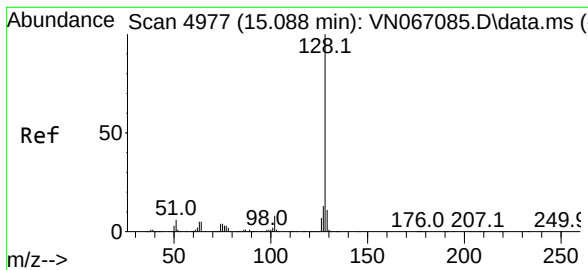
Tgt Ion: 75 Resp: 149284
Ion Ratio Lower Upper
75 100
53 0.0 66.3 99.5#
89 0.0 39.5 59.3#



#82
4-Chlorotoluene
Concen: 1.20 ug/l
RT: 12.738 min Scan# 4101
Delta R.T. 0.011 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

Tgt Ion: 91 Resp: 322
Ion Ratio Lower Upper
91 100
126 0.0 17.7 53.1#





#95
Naphthalene
Concen: 4.92 ug/l
RT: 15.104 min Scan# 4983
Delta R.T. 0.016 min
Lab File: VN067105.D
Acq: 17 May 2021 16:36

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	4.8	8.6	13.0

