

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050421\
 Data File : VN066938.D
 Acq On : 4 May 2021 16:15
 Operator : JC/MD
 Sample : PB136139ZHE#01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 05 05:24:54 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N050421W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 04 13:11:03 2021
 Response via : Initial Calibration

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

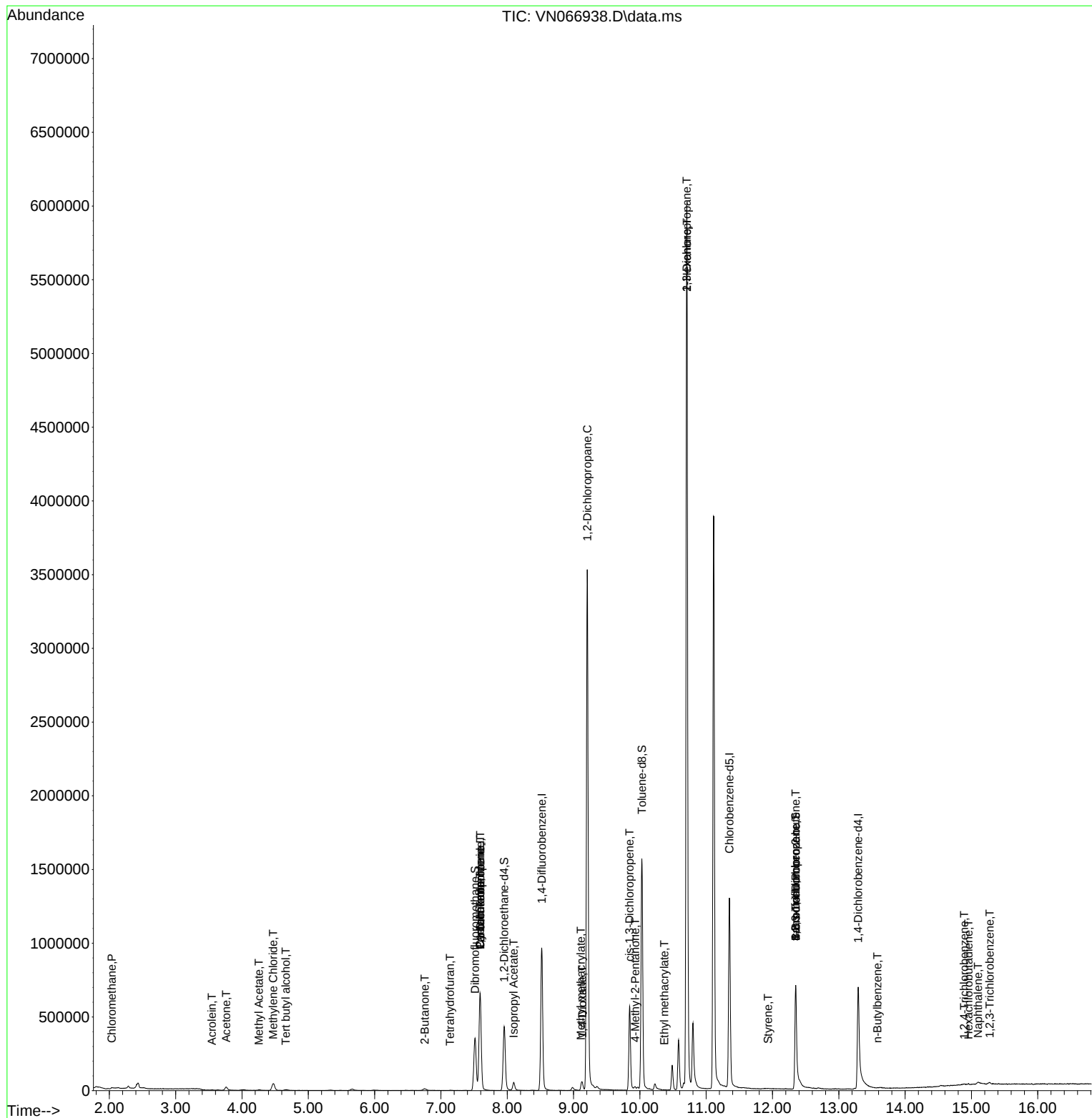
Internal Standards						
1) Pentafluorobenzene	7.592	168	505415	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.520	114	839724	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.350	117	761914	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.291	152	258971	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.954	65	385915	48.51	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	97.02%		
35) Dibromofluoromethane	7.514	113	279904	49.09	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	98.18%		
50) Toluene-d8	10.030	98	1091218	50.25	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	100.50%		
62) 4-Bromofluorobenzene	12.350	95	327900	44.60	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	89.20%		
Target Compounds						Qvalue
3) Chloromethane	2.035	50	3663	0.37	ug/l	95
11) Tert butyl alcohol	4.658	59	6190	5.51	ug/l #	73
13) Acrolein	3.545	56	2006	2.15	ug/l #	28
16) Acetone	3.760	43	39333	14.05	ug/l	94
18) Methyl Acetate	4.256	43	3994	0.50	ug/l #	77
20) Methylene Chloride	4.470	84	34793	4.90	ug/l	91
25) 2-Butanone	6.755	43	3939	0.95	ug/l #	83
29) Tetrahydrofuran	7.136	42	906	0.33	ug/l #	74
31) Cyclohexane	7.590	56	12200	1.09	ug/l #	4
36) 1,1-Dichloropropene	7.592	75	44515	5.09	ug/l #	45
38) Carbon Tetrachloride	7.592	117	52398	5.75	ug/l #	17
43) Isopropyl Acetate	8.096	43	65417	4.52	ug/l #	89
45) 1,2-Dichloropropane	9.210	63	4218	0.55	ug/l #	44
48) Methyl methacrylate	9.113	41	15476	2.41	ug/l #	10
49) 1,4-Dioxane	9.132	88	55	0.54	ug/l #	1
51) 4-Methyl-2-Pentanone	9.928	43	14781	1.77	ug/l #	57
54) cis-1,3-Dichloropropene	9.845	75	107666	9.35	ug/l #	62
56) Ethyl methacrylate	10.371	69	214	5.21	ug/l #	27
57) 1,3-Dichloropropane	10.706	76	62600	5.52	ug/l #	43
59) 2-Hexanone	10.709	43	895362	158.24	ug/l #	50
70) Styrene	11.934	104	495	4.74	ug/l	93
71) Bromoform	12.350	173	2327	0.51	ug/l #	1
76) 1,2,3-Trichloropropane	12.350	75	165487	26.82	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.350	75	165401	80.28	ug/l #	12
89) n-Butylbenzene	13.581	91	507	5.27	ug/l #	46
93) 1,2,4-Trichlorobenzene	14.890	180	3121	0.72	ug/l #	35
94) Hexachlorobutadiene	14.957	225	650	0.24	ug/l	73
95) Naphthalene	15.099	128	14635	1.29	ug/l #	80
96) 1,2,3-Trichlorobenzene	15.276	180	4221	1.00	ug/l #	77

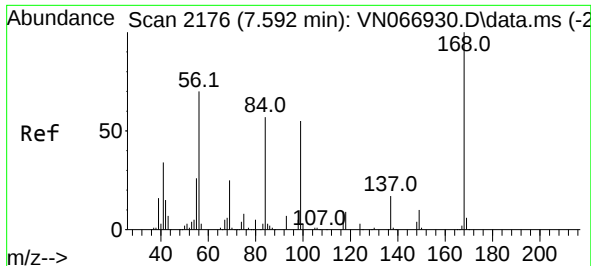
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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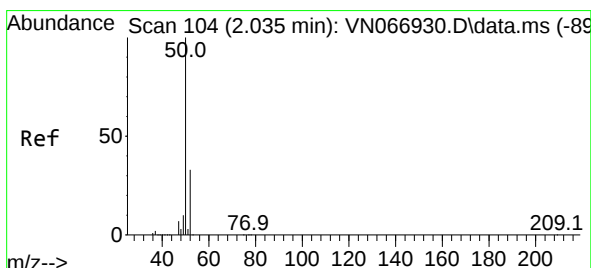
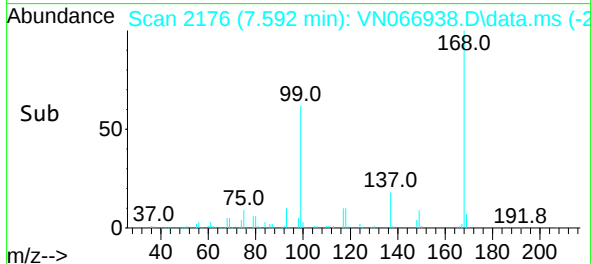
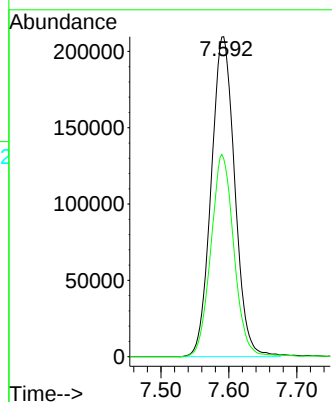
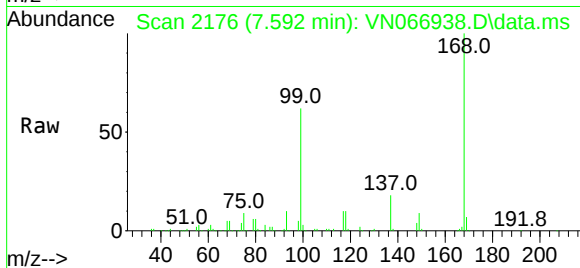




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.592 min Scan# 2176
Delta R.T. 0.000 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

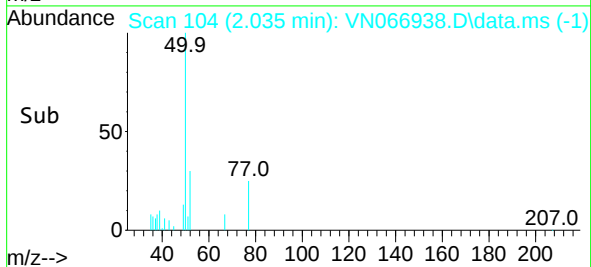
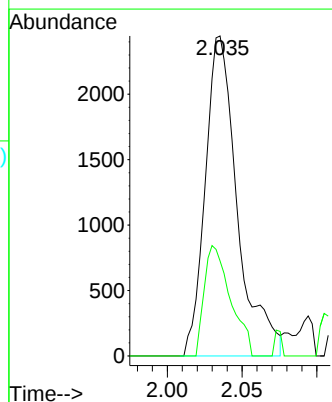
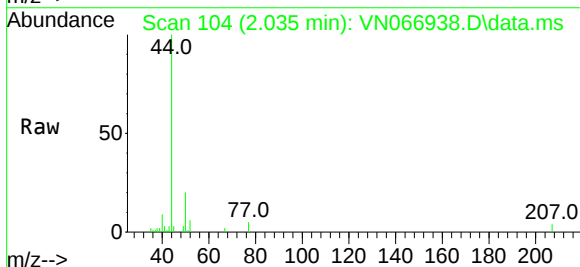
Instrument :
MSVOA_N
ClientSampled :

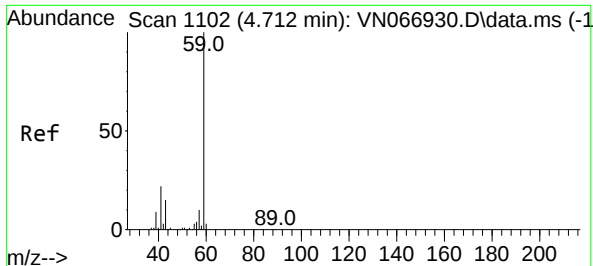
Tgt Ion:168 Resp: 505415
Ion Ratio Lower Upper
168 100
99 61.9 42.6 63.8



#3
Chloromethane
Concen: 0.37 ug/l
RT: 2.035 min Scan# 104
Delta R.T. 0.000 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

Tgt Ion: 50 Resp: 3663
Ion Ratio Lower Upper
50 100
52 29.7 25.8 38.8



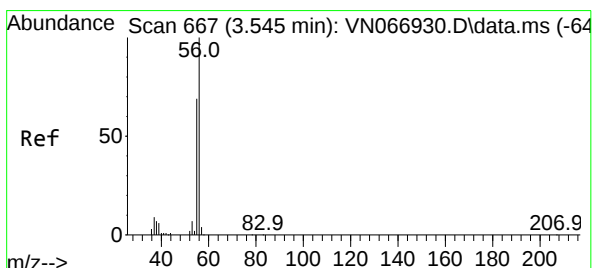
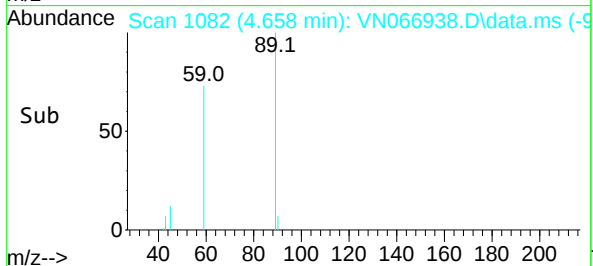
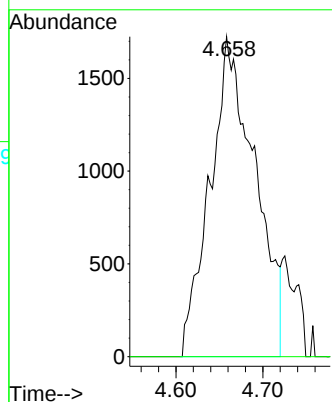
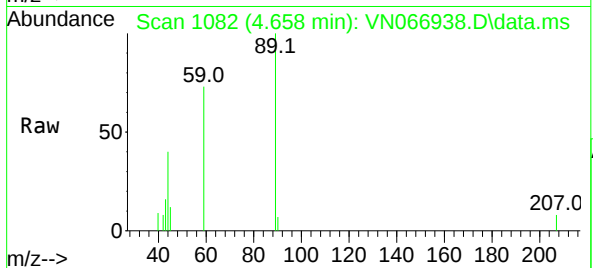


#11

Tert butyl alcohol
Concen: 5.51 ug/l
RT: 4.658 min Scan# 1082
Delta R.T. -0.054 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

Instrument :
MSVOA_N
ClientSampled :

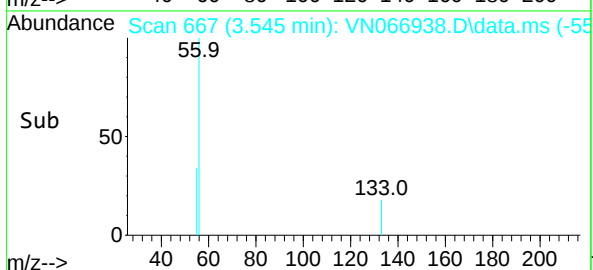
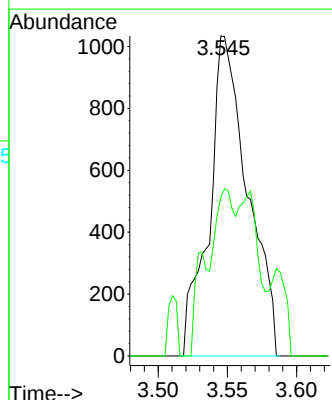
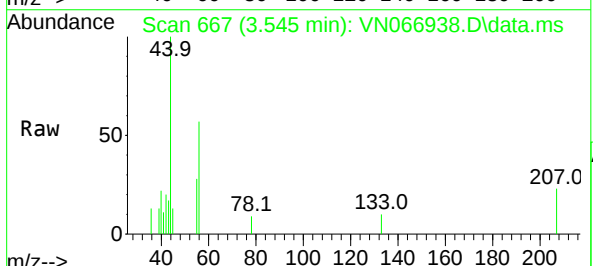
Tgt Ion: 59 Resp: 6190
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#

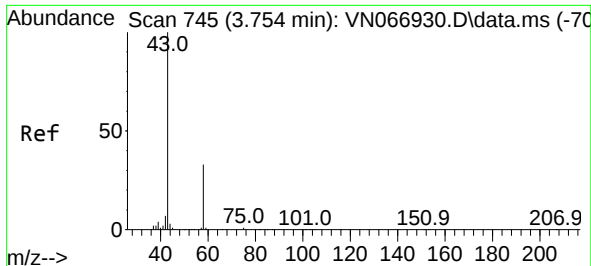


#13

Acrolein
Concen: 2.15 ug/l
RT: 3.545 min Scan# 667
Delta R.T. 0.000 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

Tgt Ion: 56 Resp: 2006
Ion Ratio Lower Upper
56 100
55 11.3 56.0 84.0#

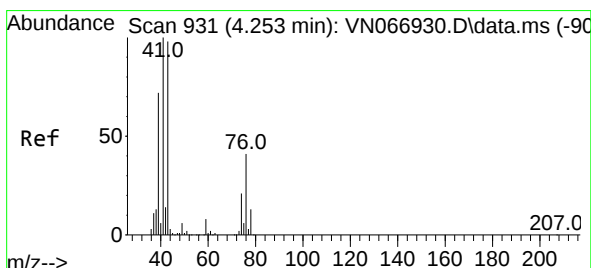
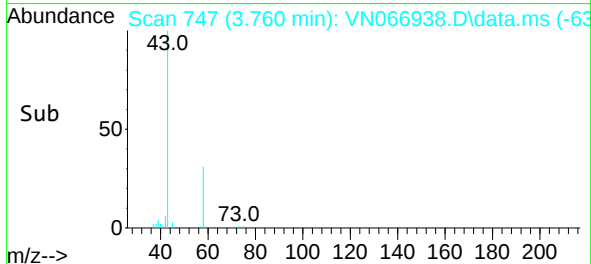
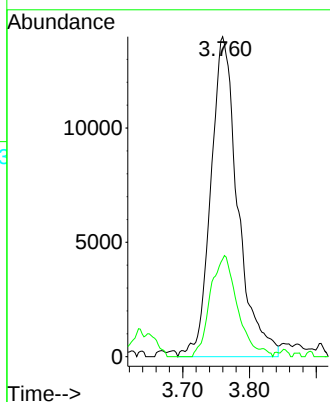
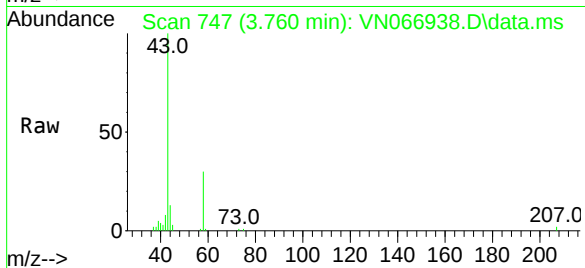




#16
Acetone
Concen: 14.05 ug/l
RT: 3.760 min Scan# 747
Delta R.T. 0.006 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

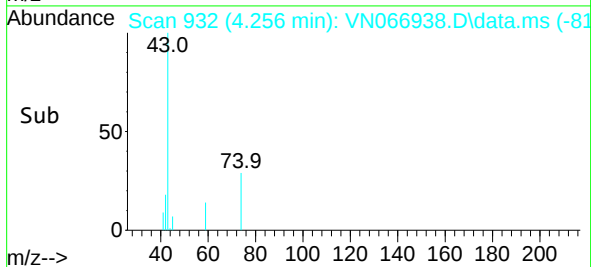
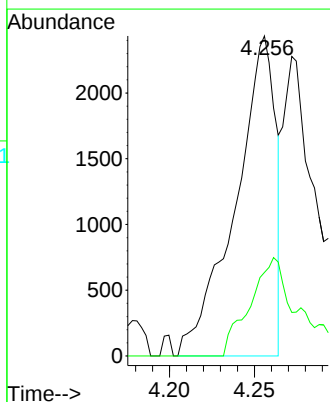
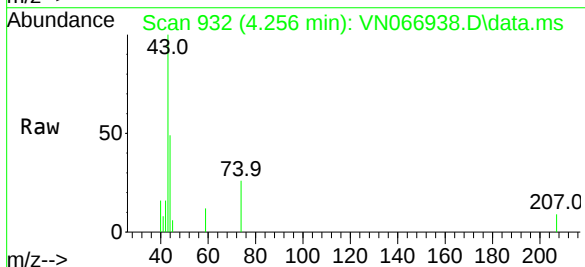
Instrument :
MSVOA_N
ClientSampled :

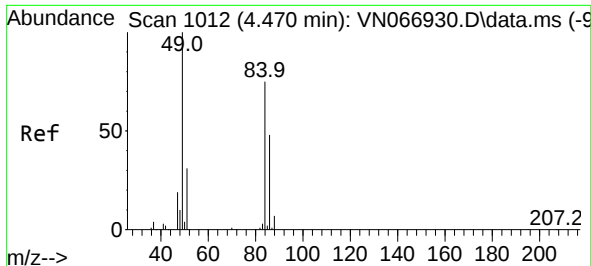
Tgt Ion: 43 Resp: 39333
Ion Ratio Lower Upper
43 100
58 30.5 27.0 40.6



#18
Methyl Acetate
Concen: 0.50 ug/l
RT: 4.256 min Scan# 932
Delta R.T. 0.003 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

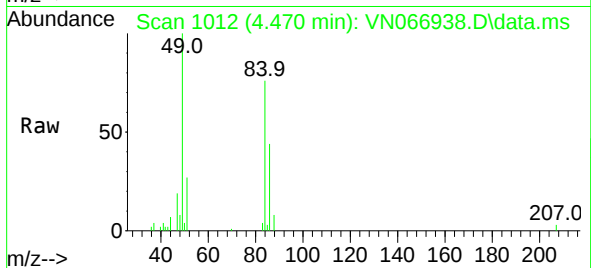
Tgt Ion: 43 Resp: 3994
Ion Ratio Lower Upper
43 100
74 36.0 19.5 29.3#



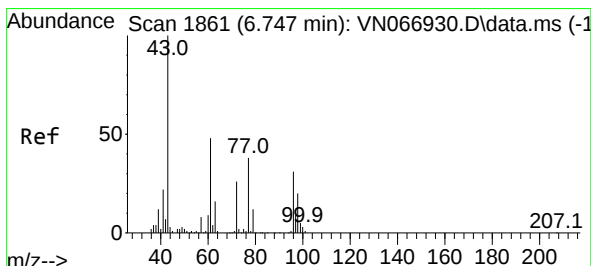
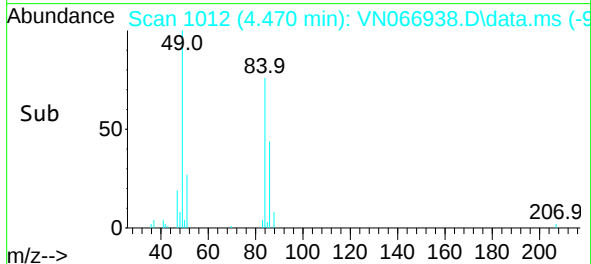
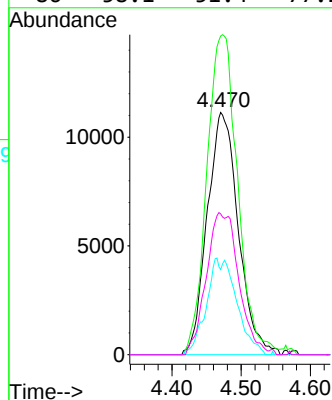


#20
Methylene Chloride
Concen: 4.90 ug/l
RT: 4.470 min Scan# 1012
Delta R.T. 0.000 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

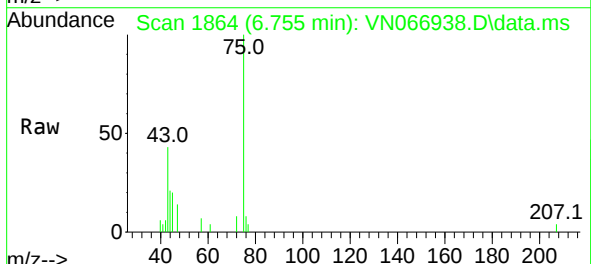
Instrument :
MSVOA_N
ClientSampled :



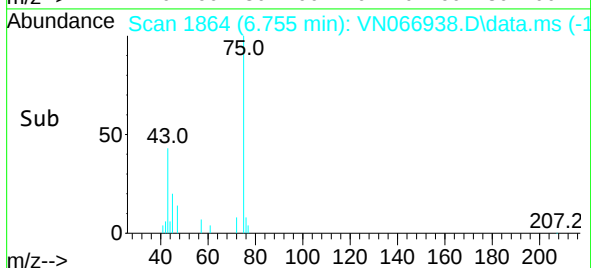
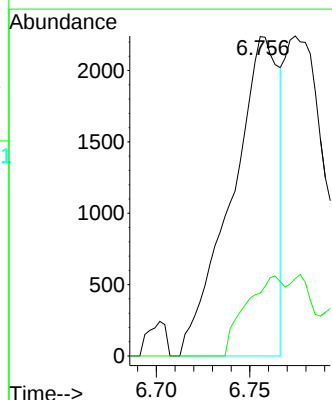
Tgt Ion:	84	Resp:	34793
Ion	Ratio	Lower	Upper
84	100		
49	131.6	94.6	141.8
51	35.2	29.9	44.9
86	58.1	51.4	77.2

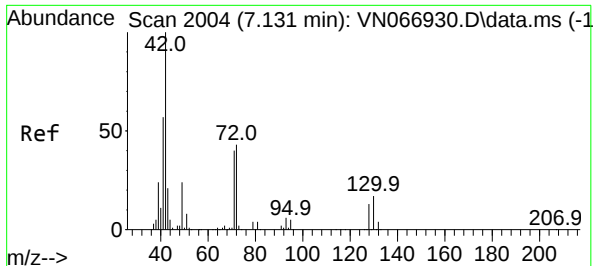


#25
2-Butanone
Concen: 0.95 ug/l
RT: 6.755 min Scan# 1864
Delta R.T. 0.008 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15



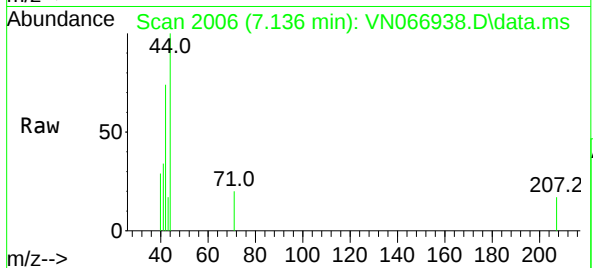
Tgt Ion:	43	Resp:	3939
Ion	Ratio	Lower	Upper
43	100		
72	19.7	23.1	34.7#



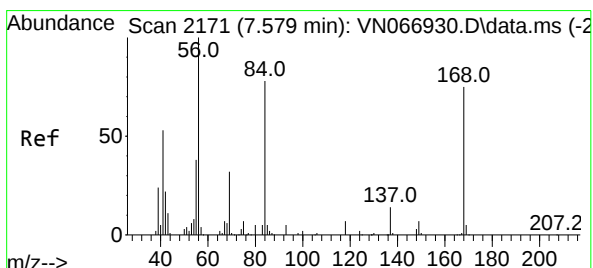
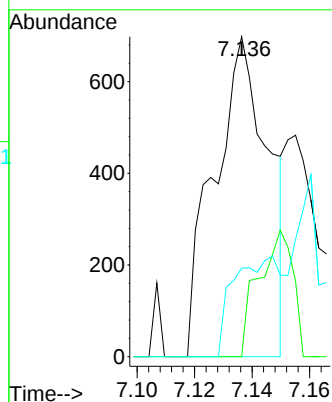
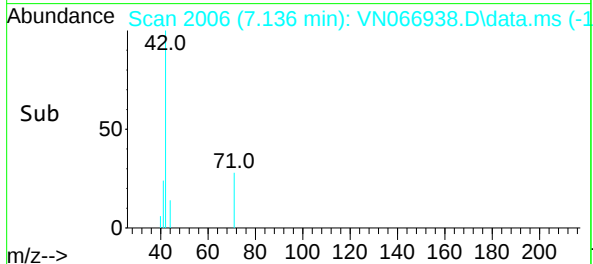


#29
Tetrahydrofuran
Concen: 0.33 ug/l
RT: 7.136 min Scan# 2006
Delta R.T. 0.005 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

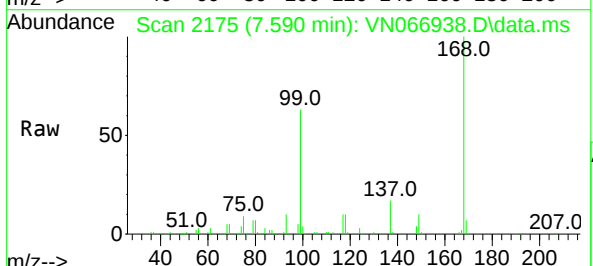
Instrument :
MSVOA_N
ClientSampled :



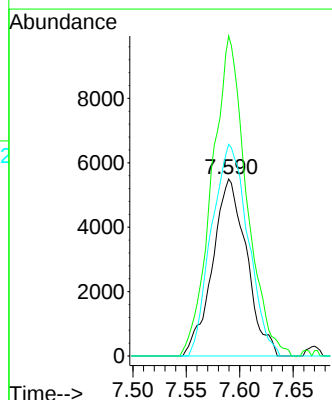
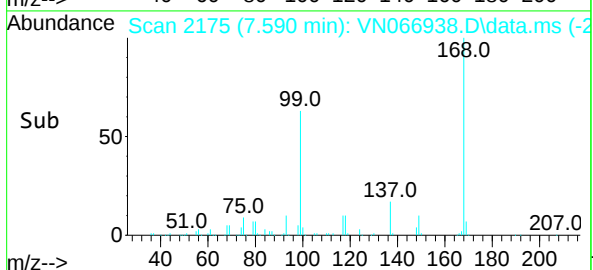
Tgt Ion: 42 Resp: 906
Ion Ratio Lower Upper
42 100
72 25.1 36.6 55.0#
71 29.7 34.3 51.5#

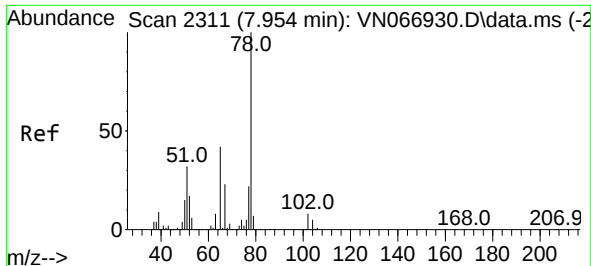


#31
Cyclohexane
Concen: 1.09 ug/l
RT: 7.590 min Scan# 2175
Delta R.T. 0.011 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15



Tgt Ion: 56 Resp: 12200
Ion Ratio Lower Upper
56 100
69 180.9 26.6 39.8#
84 119.7 70.4 105.6#

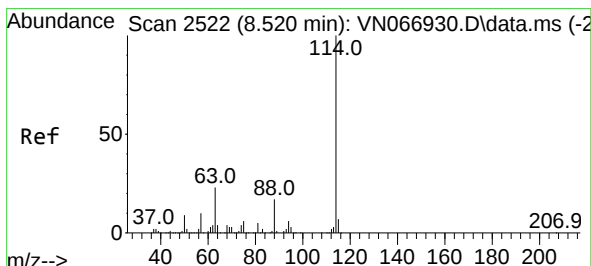
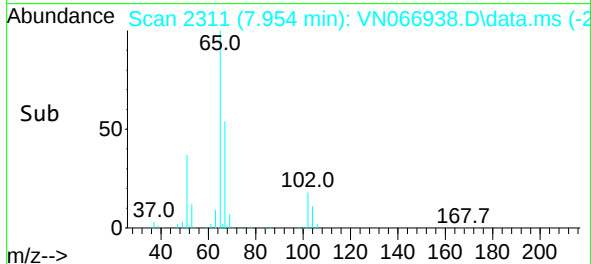
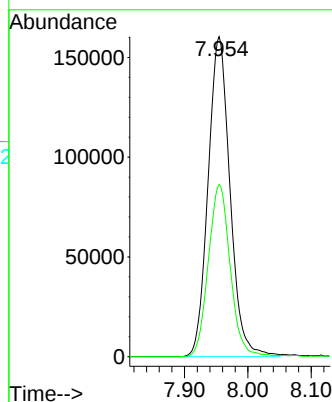
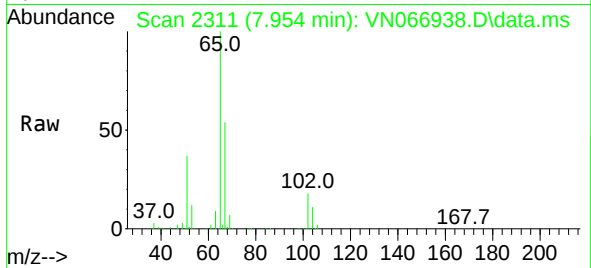




#33
 1,2-Dichloroethane-d4
 Concen: 48.51 ug/l
 RT: 7.954 min Scan# 2311
 Delta R.T. 0.000 min
 Lab File: VN066938.D
 Acq: 4 May 2021 16:15

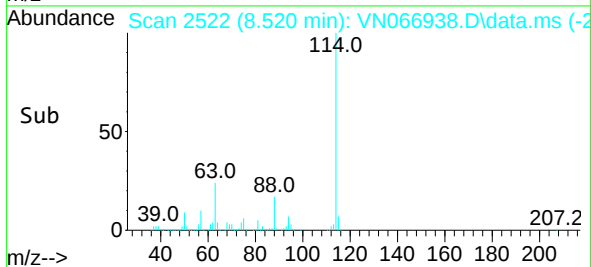
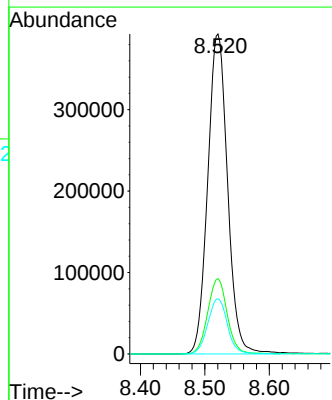
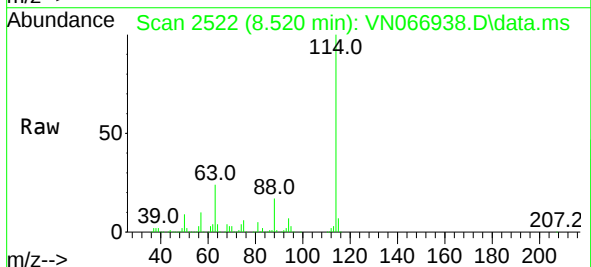
Instrument :
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 ClientSampled :

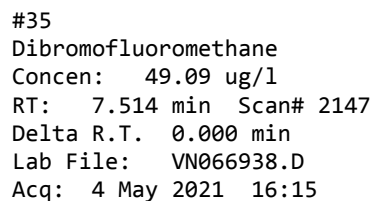
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 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 107.2



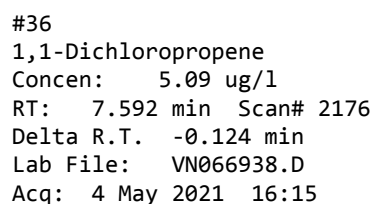
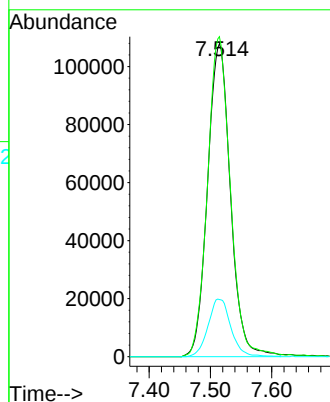
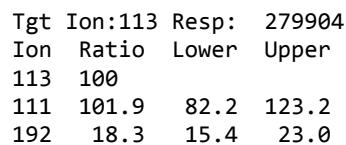
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.520 min Scan# 2522
 Delta R.T. 0.000 min
 Lab File: VN066938.D
 Acq: 4 May 2021 16:15

Tgt Ion: 114 Resp: 839724
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 38.6
 88 17.2 0.0 30.6

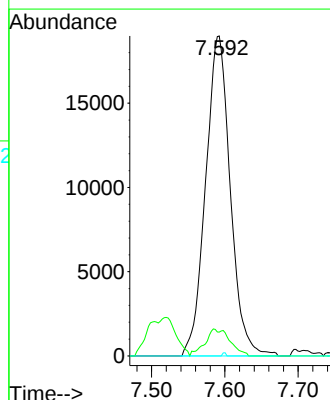


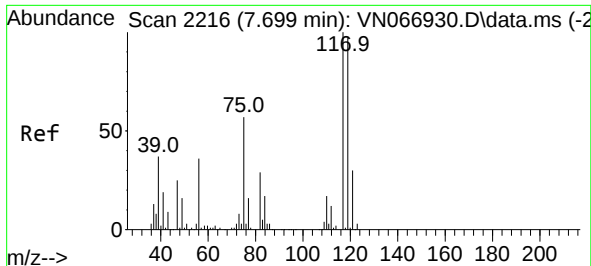


Instrument :
MSVOA_N
ClientSampleId :



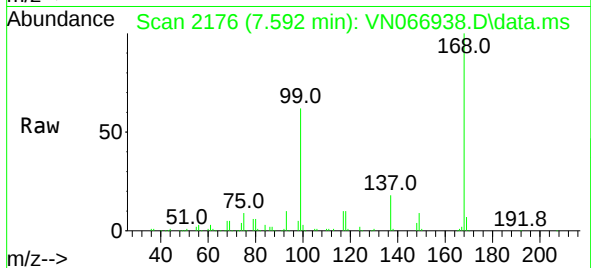
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Ion Ratio Lower	Upper
75 100	
110 4.8	18.2 54.6#
77 0.1	24.9 37.3#



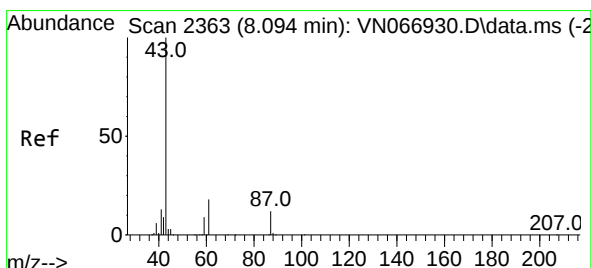
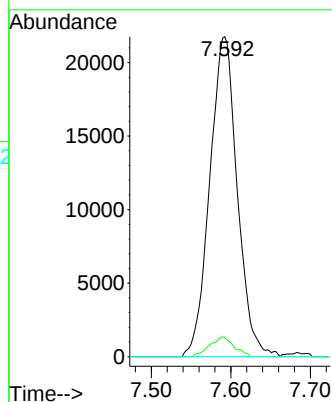
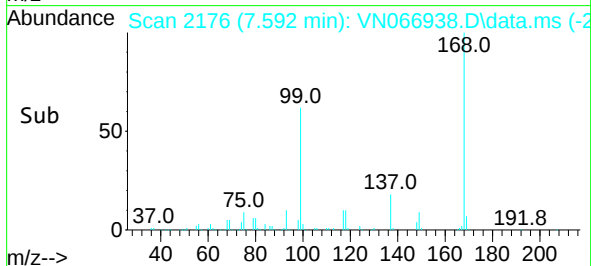


#38
Carbon Tetrachloride
Concen: 5.75 ug/l
RT: 7.592 min Scan# 2176
Delta R.T. -0.107 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

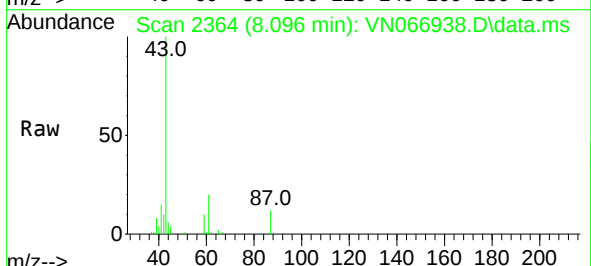
Instrument :
MSVOA_N
ClientSampled :



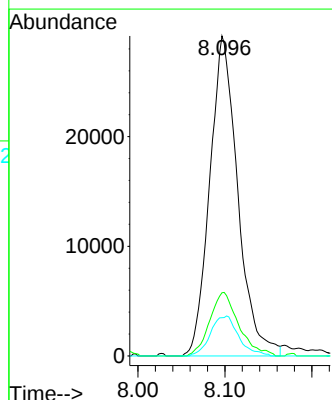
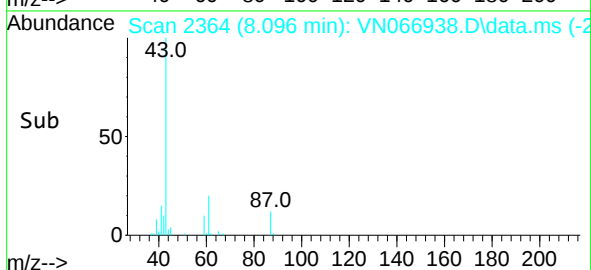
Tgt Ion:117 Resp: 52398
Ion Ratio Lower Upper
117 100
119 6.0 76.0 114.0#
121 0.0 24.5 36.7#

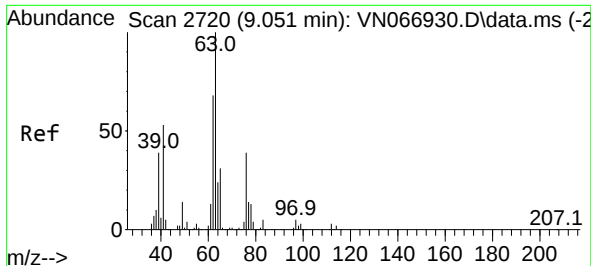


#43
Isopropyl Acetate
Concen: 4.52 ug/l
RT: 8.096 min Scan# 2364
Delta R.T. 0.002 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15



Tgt Ion: 43 Resp: 65417
Ion Ratio Lower Upper
43 100
61 20.6 22.5 33.7#
87 12.5 11.1 16.7





#45

1,2-Dichloropropane

Concen: 0.55 ug/l

RT: 9.210 min Scan# 2779

Delta R.T. 0.159 min

Lab File: VN066938.D

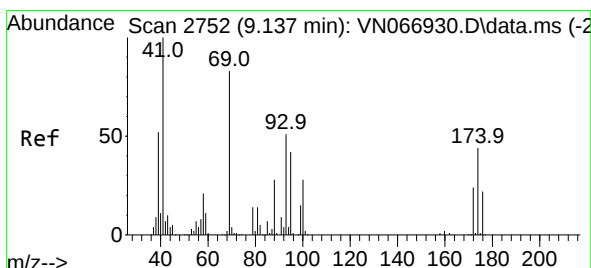
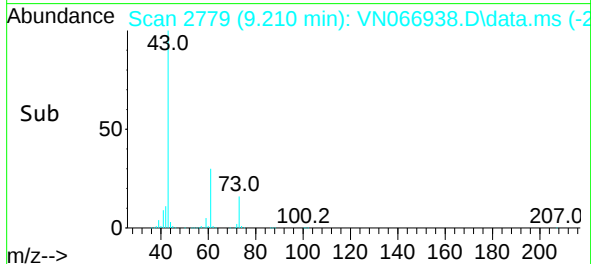
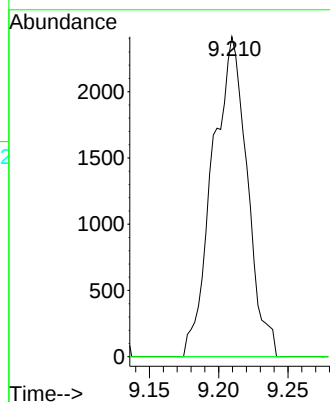
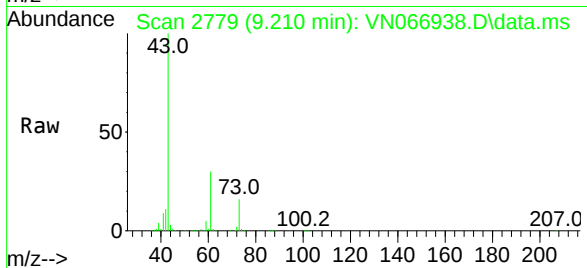
Acq: 4 May 2021 16:15

Tgt Ion: 63 Resp: 4218

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#



#48

Methyl methacrylate

Concen: 2.41 ug/l

RT: 9.113 min Scan# 2743

Delta R.T. -0.024 min

Lab File: VN066938.D

Acq: 4 May 2021 16:15

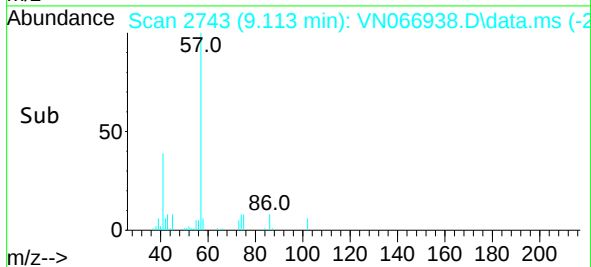
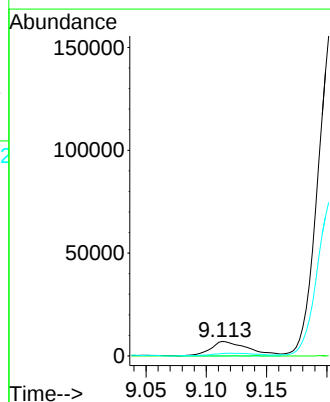
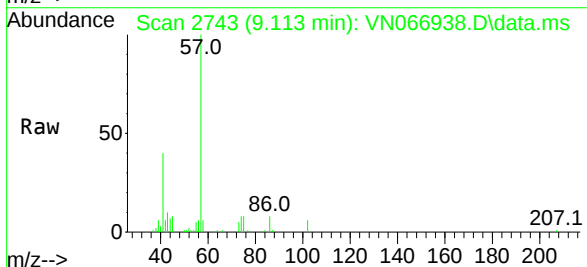
Tgt Ion: 41 Resp: 15476

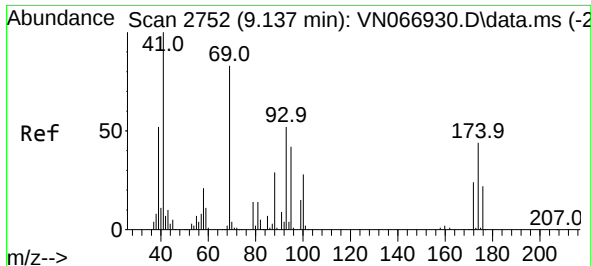
Ion Ratio Lower Upper

41 100

69 0.2 75.9 113.9#

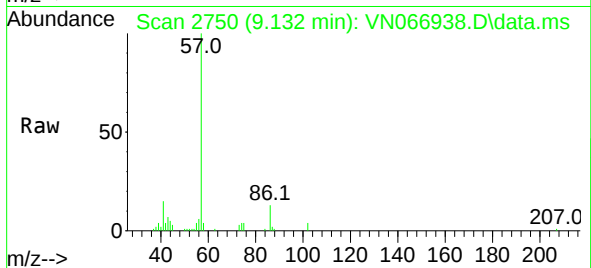
39 0.0 46.6 69.8#



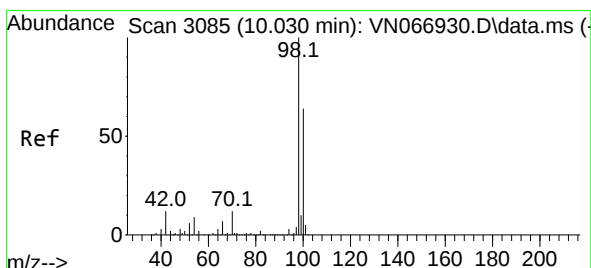
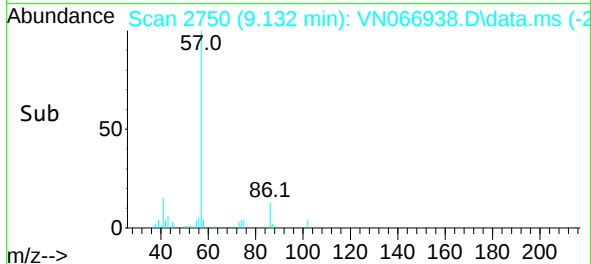
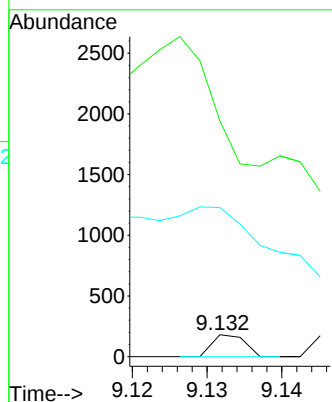


#49
1,4-Dioxane
Concen: 0.54 ug/l
RT: 9.132 min Scan# 2750
Delta R.T. -0.005 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

Instrument :
MSVOA_N
ClientSampled :

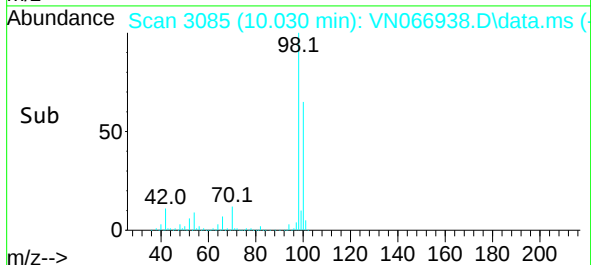
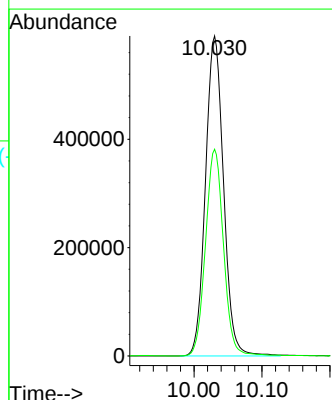
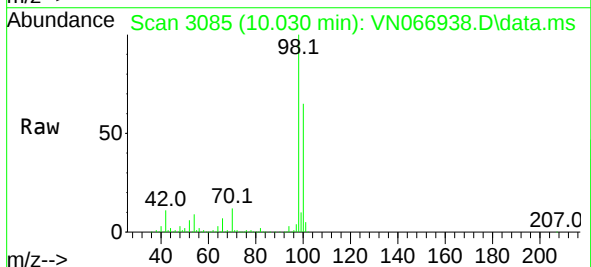


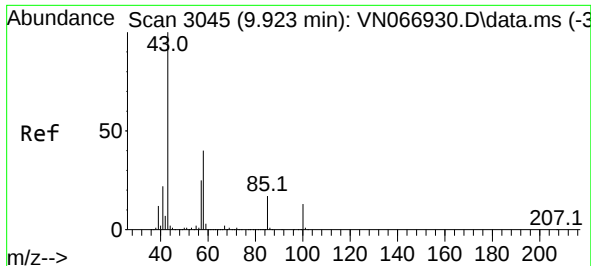
Tgt Ion: 88 Resp: 55
Ion Ratio Lower Upper
88 100
43 0.0 24.7 37.1#
58 5174.5 52.6 78.8#



#50
Toluene-d8
Concen: 50.25 ug/l
RT: 10.030 min Scan# 3085
Delta R.T. 0.000 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

Tgt Ion: 98 Resp: 1091218
Ion Ratio Lower Upper
98 100
100 64.5 50.5 75.7

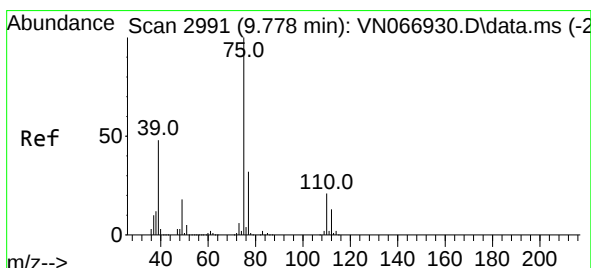
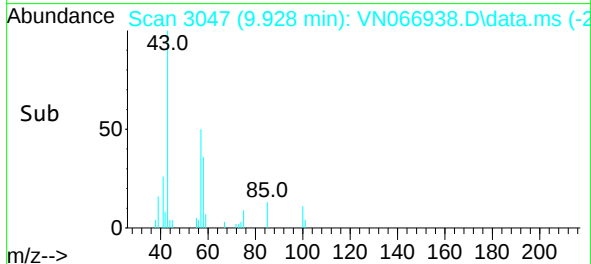
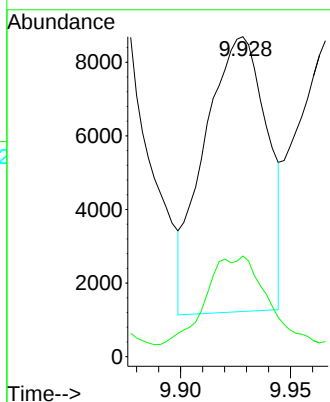
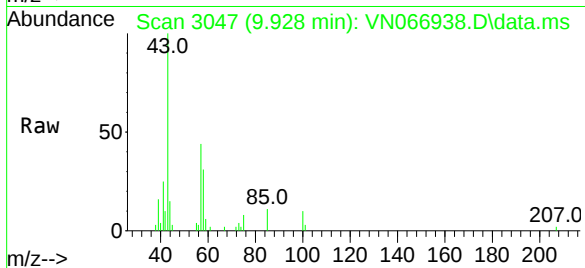




#51
4-Methyl-2-Pentanone
Concen: 1.77 ug/l
RT: 9.928 min Scan# 3047
Delta R.T. 0.005 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

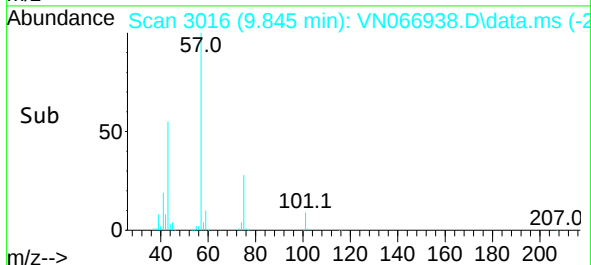
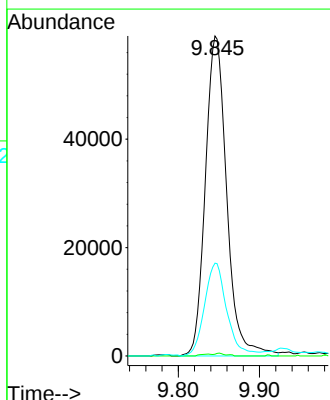
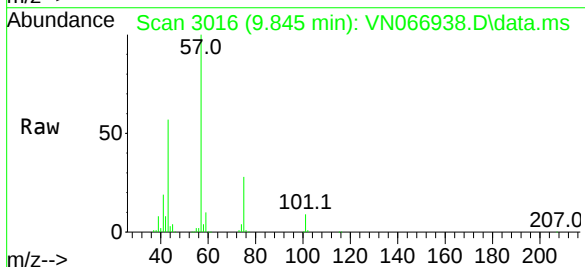
Instrument :
MSVOA_N
ClientSampled :

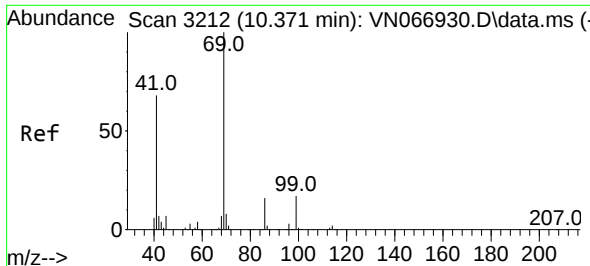
Tgt Ion: 43 Resp: 14781
Ion Ratio Lower Upper
43 100
58 14.2 32.5 48.7#



#54
cis-1,3-Dichloropropene
Concen: 9.35 ug/l
RT: 9.845 min Scan# 3016
Delta R.T. 0.067 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

Tgt Ion: 75 Resp: 107666
Ion Ratio Lower Upper
75 100
77 0.6 24.9 37.3#
39 28.7 36.2 54.4#

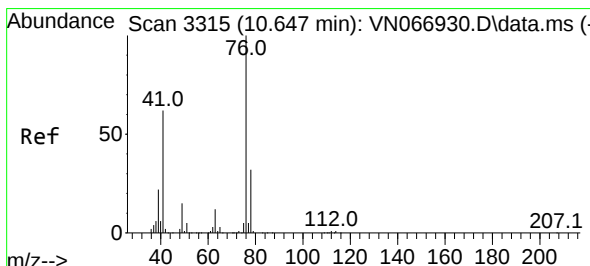
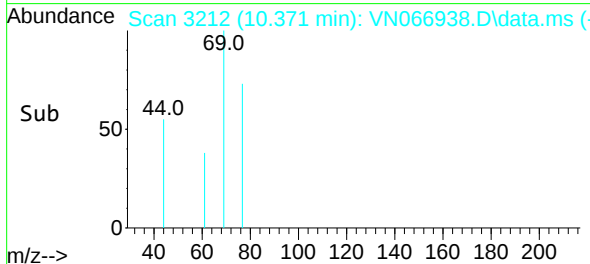
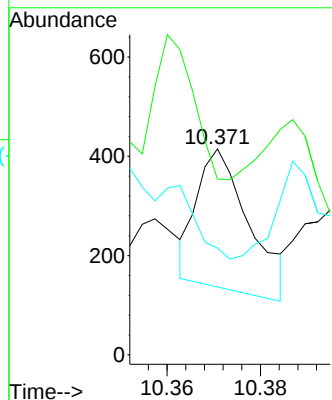
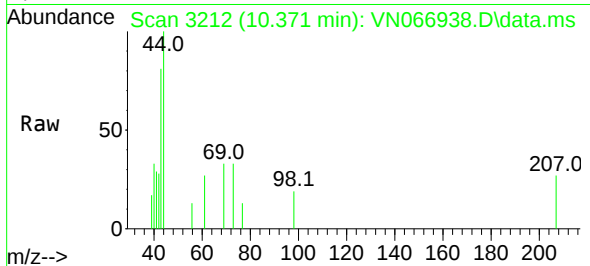




#56
Ethyl methacrylate
Concen: 5.21 ug/l
RT: 10.371 min Scan# 3212
Delta R.T. -0.000 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

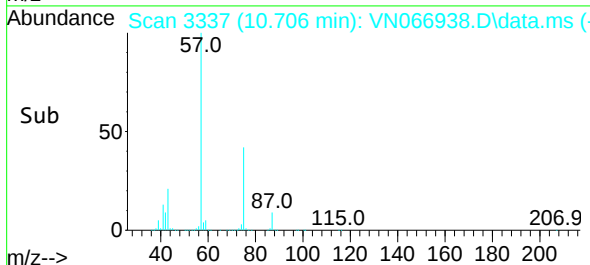
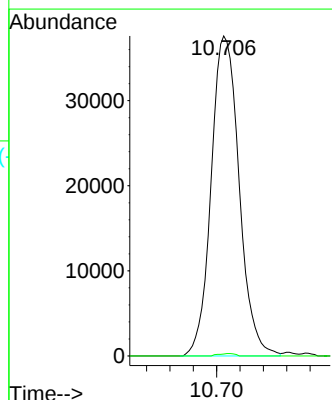
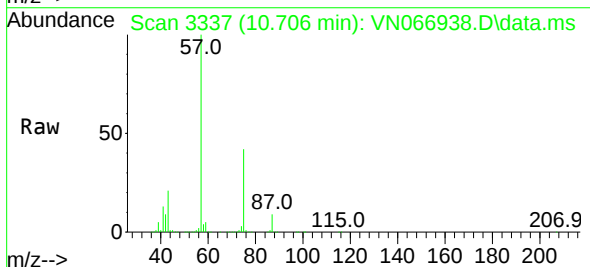
Instrument :
MSVOA_N
ClientSampleId :

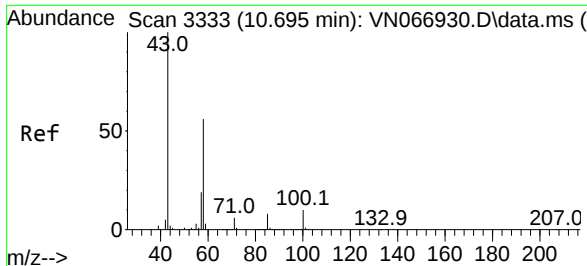
Tgt Ion: 69 Resp: 214
Ion Ratio Lower Upper
69 100
41 0.0 49.6 74.4#
39 0.0 28.0 42.0#



#57
1,3-Dichloropropane
Concen: 5.52 ug/l
RT: 10.706 min Scan# 3337
Delta R.T. 0.059 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

Tgt Ion: 76 Resp: 62600
Ion Ratio Lower Upper
76 100
78 0.4 25.7 38.5#

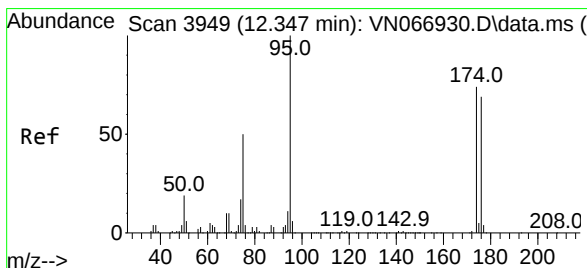
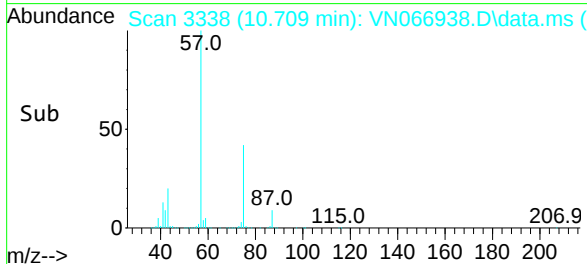
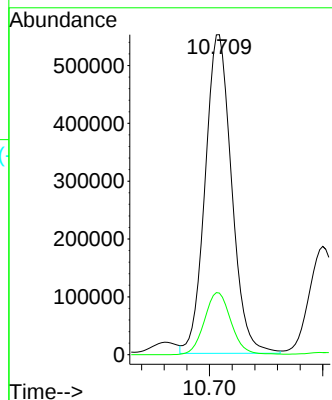
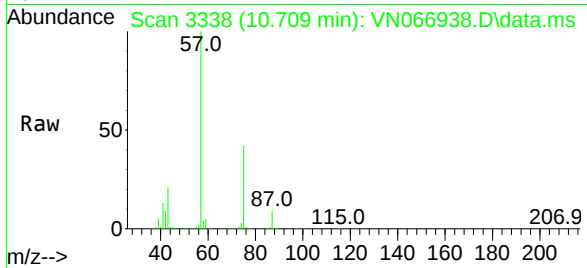




#59
2-Hexanone
Concen: 158.24 ug/l
RT: 10.709 min Scan# 3338
Delta R.T. 0.014 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

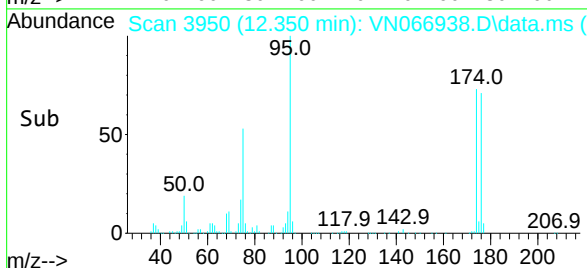
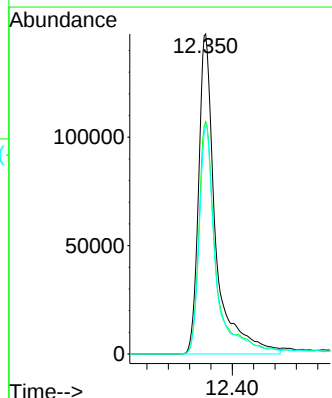
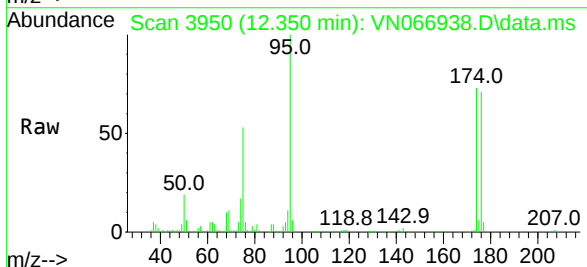
Instrument :
MSVOA_N
ClientSampled :

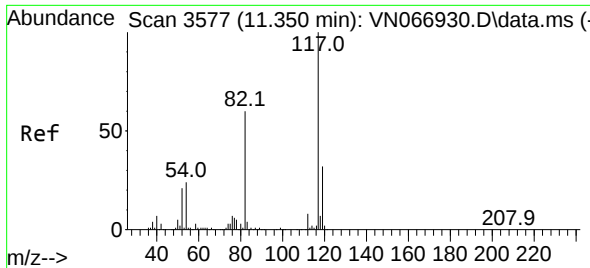
Tgt Ion: 43 Resp: 895362
Ion Ratio Lower Upper
43 100
58 19.7 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: 44.60 ug/l
RT: 12.350 min Scan# 3950
Delta R.T. 0.003 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

Tgt Ion: 95 Resp: 327900
Ion Ratio Lower Upper
95 100
174 72.3 0.0 169.0
176 69.2 0.0 162.4

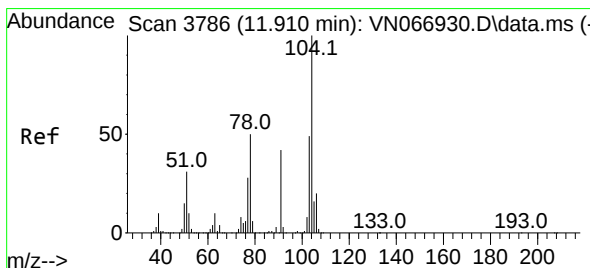
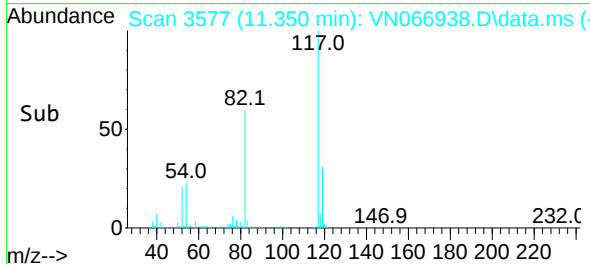
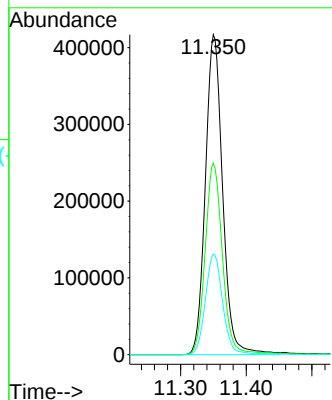
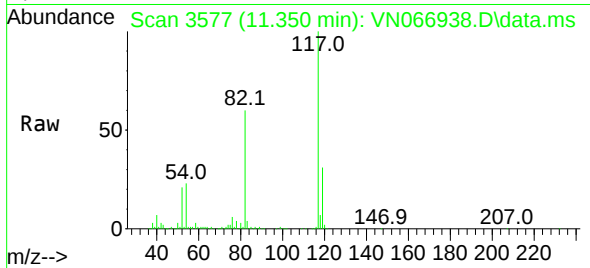




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.350 min Scan# 3577
Delta R.T. -0.000 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

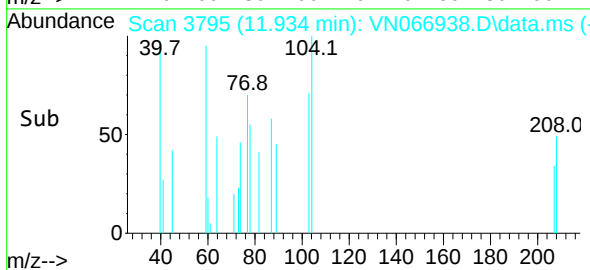
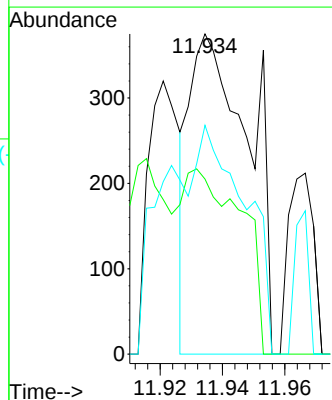
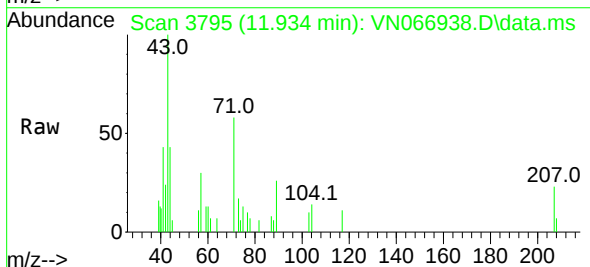
Instrument :
MSVOA_N
ClientSampleId :

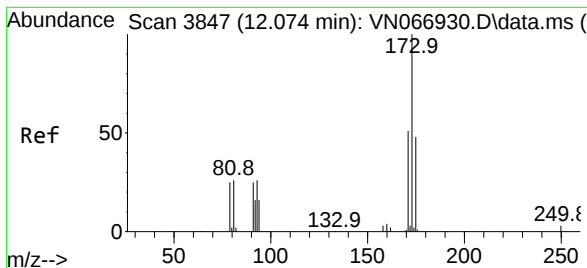
Tgt Ion:117 Resp: 761914
Ion Ratio Lower Upper
117 100
82 59.9 43.7 65.5
119 31.5 26.1 39.1



#70
Styrene
Concen: 4.74 ug/l
RT: 11.934 min Scan# 3795
Delta R.T. 0.024 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

Tgt Ion:104 Resp: 495
Ion Ratio Lower Upper
104 100
78 54.1 39.0 58.4
103 60.2 44.5 66.7





#71

Bromoform

Concen: 0.51 ug/l

RT: 12.350 min Scan# 3950

Delta R.T. 0.276 min

Lab File: VN066938.D

Acq: 4 May 2021 16:15

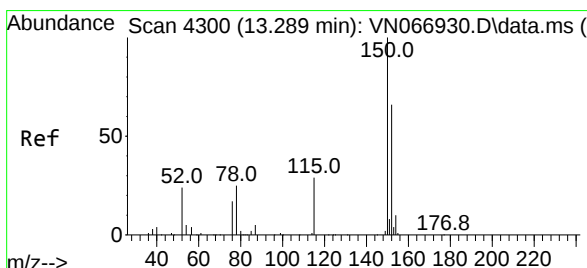
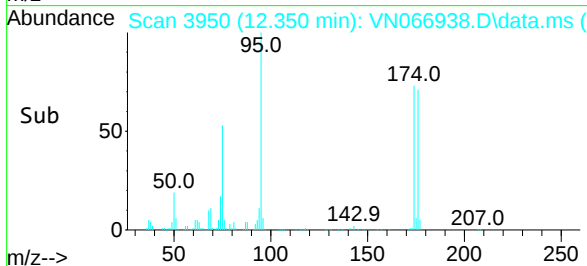
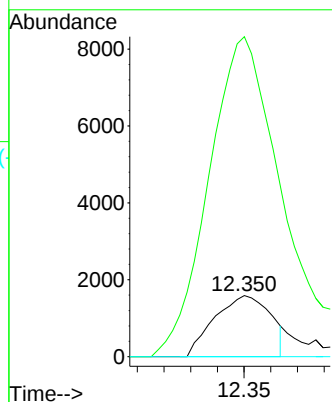
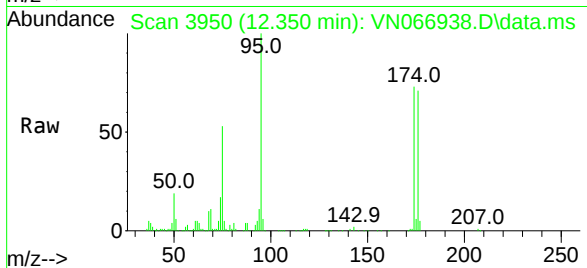
Tgt Ion:173 Resp: 2327

Ion Ratio Lower Upper

173 100

175 567.6 23.8 71.2#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.291 min Scan# 4301

Delta R.T. 0.002 min

Lab File: VN066938.D

Acq: 4 May 2021 16:15

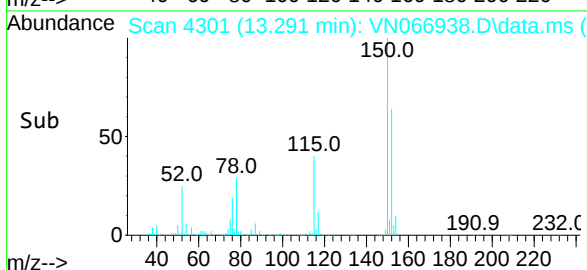
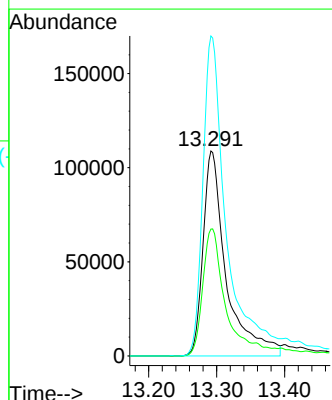
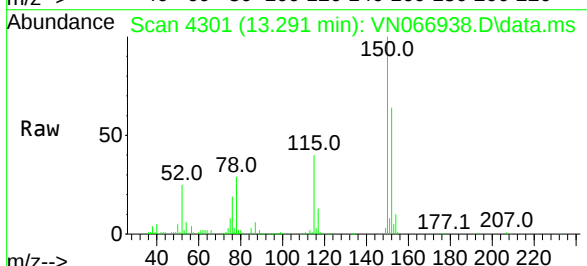
Tgt Ion:152 Resp: 258971

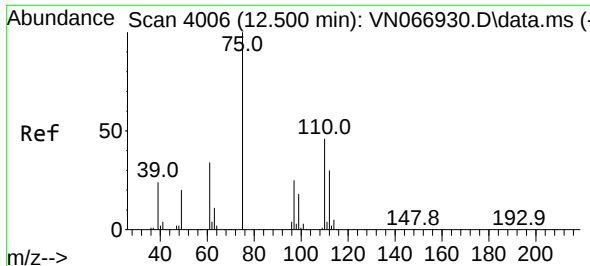
Ion Ratio Lower Upper

152 100

115 58.0 28.5 85.6

150 158.2 0.0 347.6

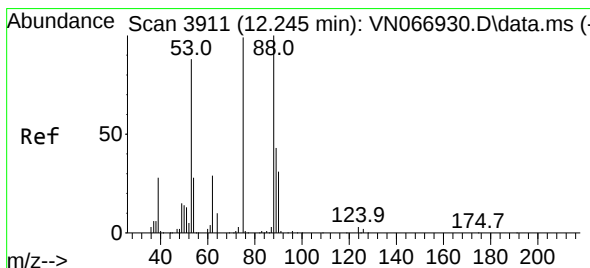
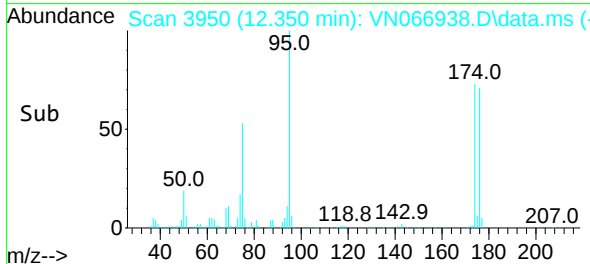
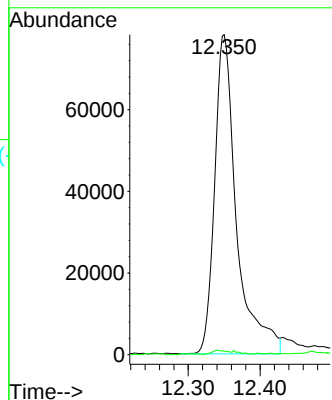
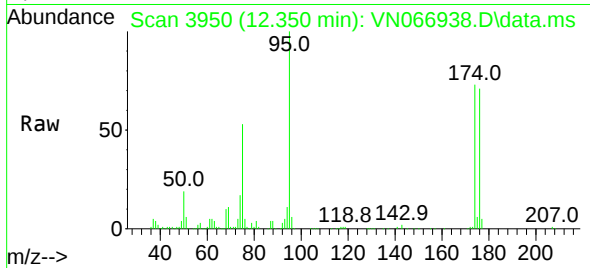




#76
1,2,3-Trichloropropane
Concen: 26.82 ug/l
RT: 12.350 min Scan# 3950
Delta R.T. -0.150 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

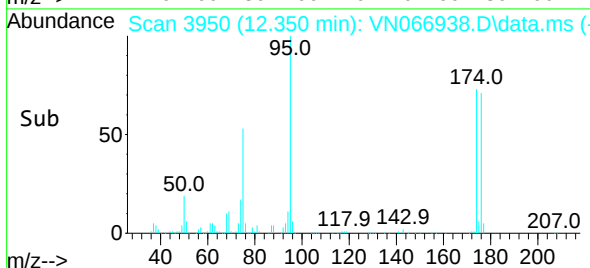
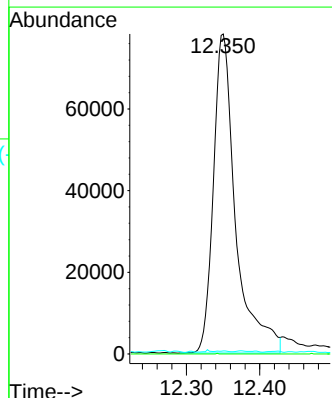
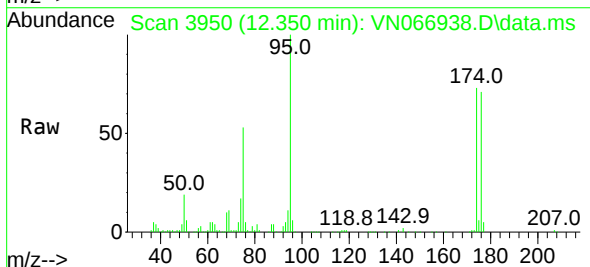
Instrument :
MSVOA_N
ClientSampled :

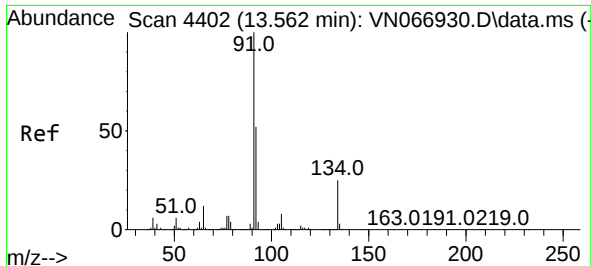
Tgt Ion: 75 Resp: 165487
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 80.28 ug/l
RT: 12.350 min Scan# 3950
Delta R.T. 0.105 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

Tgt Ion: 75 Resp: 165401
Ion Ratio Lower Upper
75 100
53 0.0 74.6 111.8#
89 0.2 35.8 53.8#

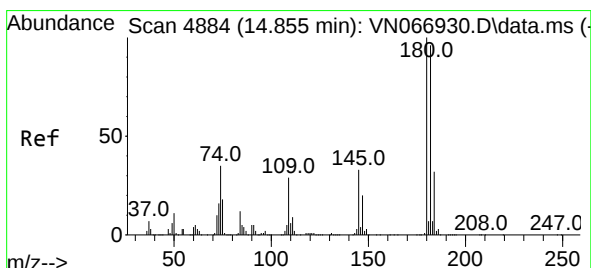
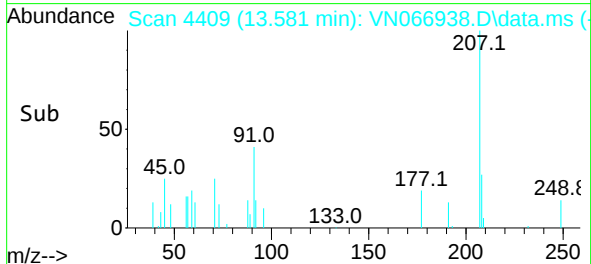
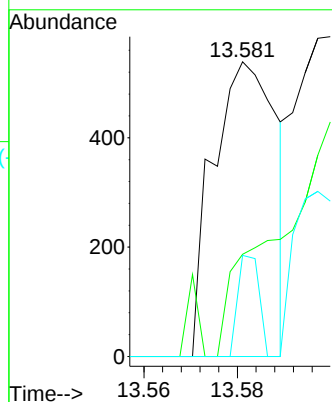
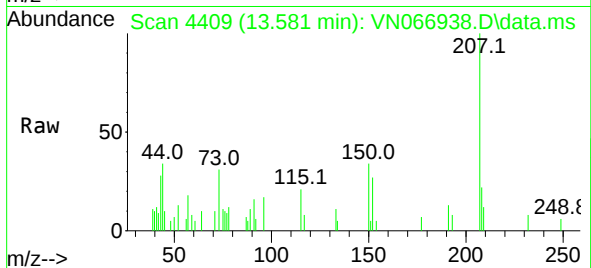




#89
n-Butylbenzene
Concen: 5.27 ug/l
RT: 13.581 min Scan# 4409
Delta R.T. 0.019 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

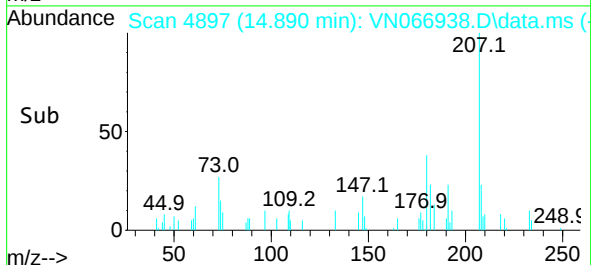
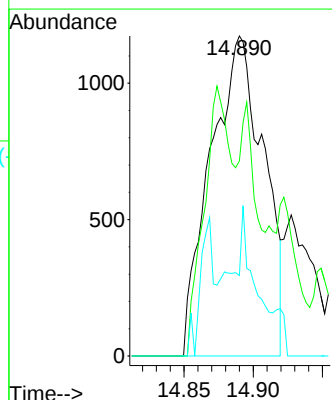
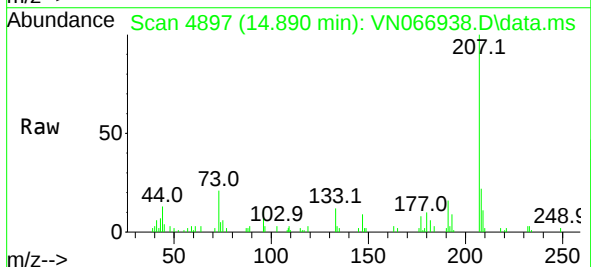
Instrument :
MSVOA_N
ClientSampled :

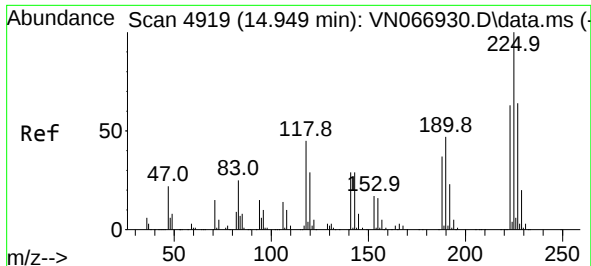
Tgt Ion: 91 Resp: 507
Ion Ratio Lower Upper
91 100
92 4.7 26.1 78.3#
134 11.6 13.0 38.9#



#93
1,2,4-Trichlorobenzene
Concen: 0.72 ug/l
RT: 14.890 min Scan# 4897
Delta R.T. 0.035 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

Tgt Ion: 180 Resp: 3121
Ion Ratio Lower Upper
180 100
182 23.5 47.3 142.0#
145 8.5 15.6 46.8#

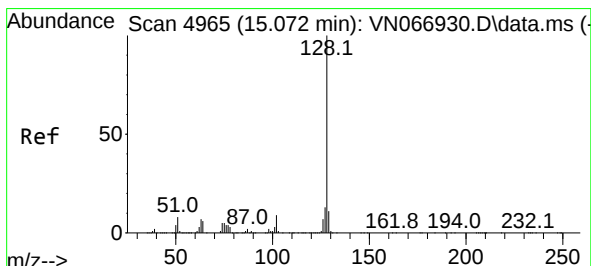
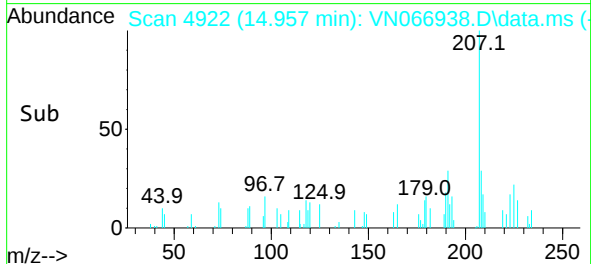
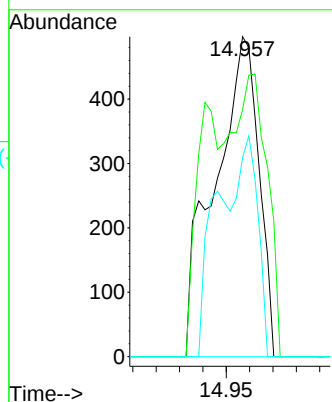
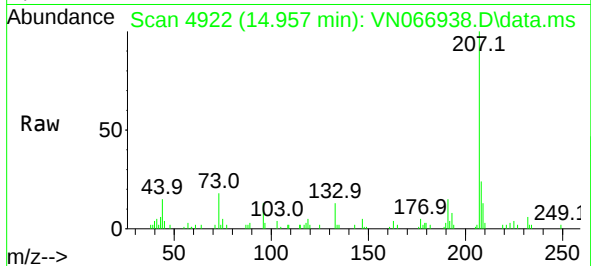




#94
Hexachlorobutadiene
Concen: 0.24 ug/l
RT: 14.957 min Scan# 4922
Delta R.T. 0.008 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

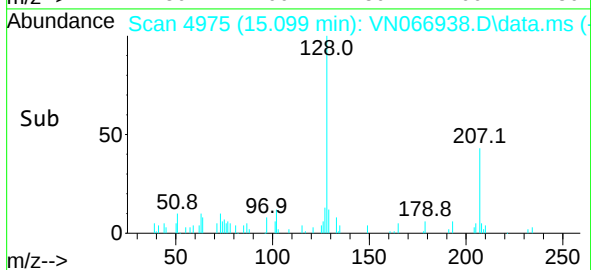
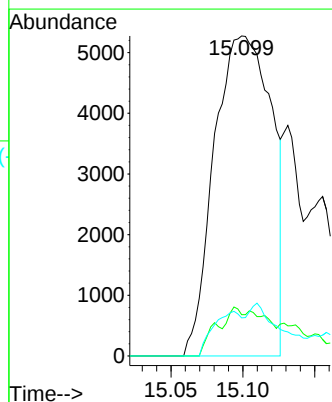
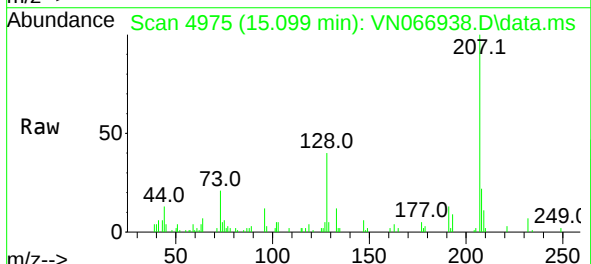
Instrument :
MSVOA_N
ClientSampled :

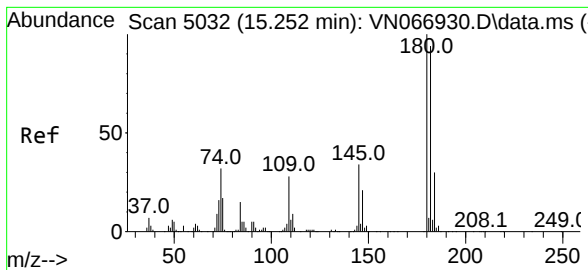
Tgt Ion:225 Resp: 650
Ion Ratio Lower Upper
225 100
223 52.2 31.9 95.9
227 33.1 31.6 95.0



#95
Naphthalene
Concen: 1.29 ug/l
RT: 15.099 min Scan# 4975
Delta R.T. 0.027 min
Lab File: VN066938.D
Acq: 4 May 2021 16:15

Tgt Ion:128 Resp: 14635
Ion Ratio Lower Upper
128 100
127 1.9 10.2 15.2#
129 6.8 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.00 ug/l
 RT: 15.276 min Scan# 5041
 Delta R.T. 0.024 min
 Lab File: VN066938.D
 Acq: 4 May 2021 16:15

Instrument :
 MSVOA_N
 ClientSampleId :

Tgt Ion:180 Resp: 4221
 Ion Ratio Lower Upper
 180 100
 182 106.7 47.4 142.3
 145 2.4 16.5 49.5#

