

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040721\
 Data File : VN066515.D
 Acq On : 7 Apr 2021 18:59
 Operator : JC/MD
 Sample : PB135583ZH#04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 08 01:57:12 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N040621W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 06 15:38:34 2021
 Response via : Initial Calibration

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

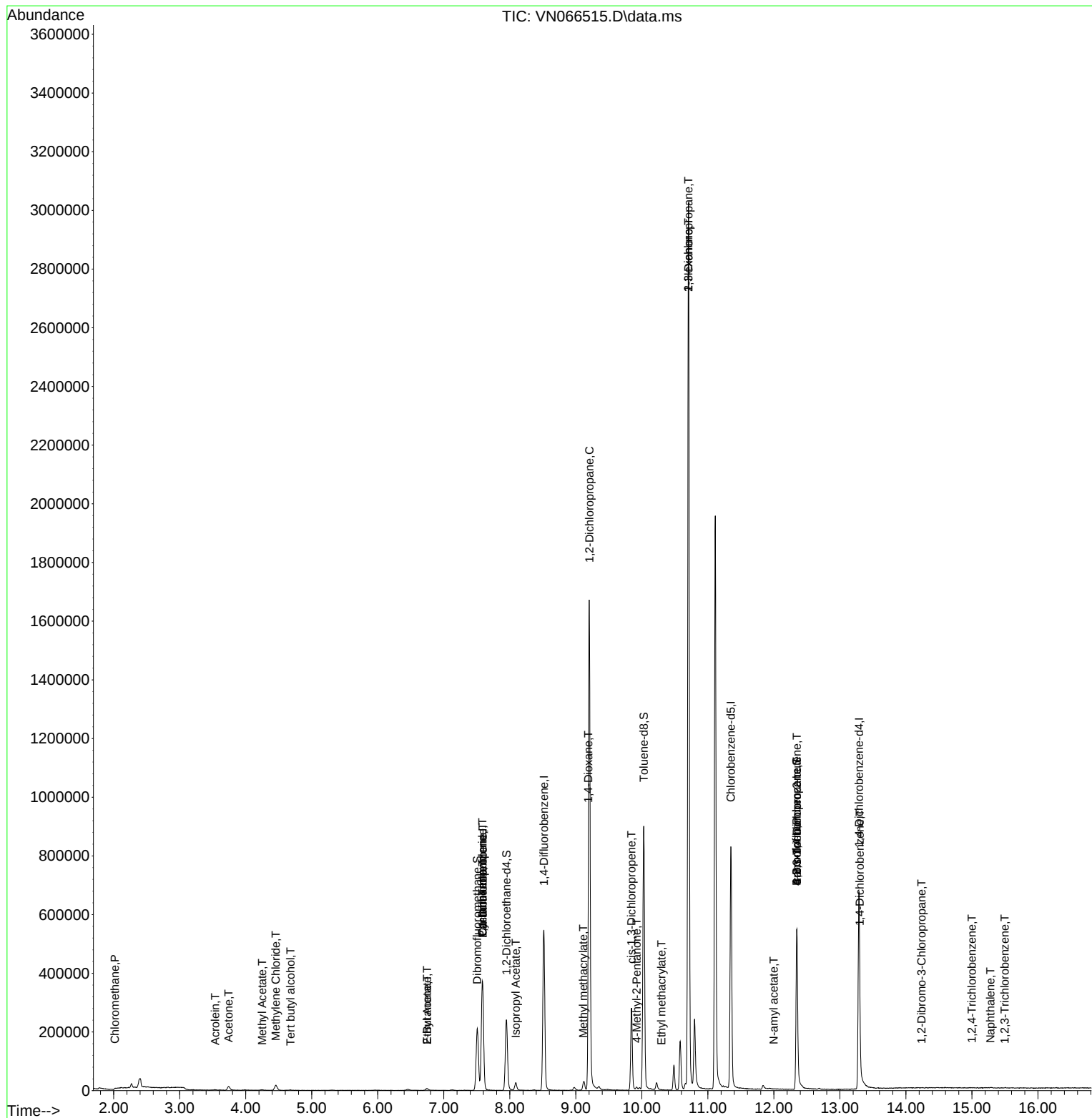
Internal Standards						
1) Pentafluorobenzene	7.587	168	320563	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.515	114	488028	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.347	117	486680	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.289	152	212818	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.949	65	207149	49.07	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	98.14%		
35) Dibromofluoromethane	7.507	113	160987	48.40	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.80%		
50) Toluene-d8	10.028	98	626384	49.56	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	99.12%		
62) 4-Bromofluorobenzene	12.345	95	200552	48.94	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	97.88%		
Target Compounds						Qvalue
3) Chloromethane	2.017	50	1179	0.25	ug/l	90
11) Tert butyl alcohol	4.677	59	177	0.26	ug/l #	1
13) Acrolein	3.540	56	1303	7.14	ug/l	93
16) Acetone	3.739	43	23314	13.18	ug/l	100
18) Methyl Acetate	4.248	43	3805	0.86	ug/l	94
20) Methylene Chloride	4.455	84	12401	3.26	ug/l	88
25) 2-Butanone	6.748	43	11641	4.39	ug/l	97
31) Cyclohexane	7.585	56	6478	1.12	ug/l #	11
36) 1,1-Dichloropropene	7.587	75	23341	4.92	ug/l #	48
37) Ethyl Acetate	6.748	43	11641	1.98	ug/l #	69
38) Carbon Tetrachloride	7.585	117	29109	6.06	ug/l #	16
43) Isopropyl Acetate	8.091	43	31850	3.50	ug/l	98
45) 1,2-Dichloropropane	9.204	63	1940	0.49	ug/l #	43
48) Methyl methacrylate	9.113	41	7357	1.82	ug/l #	12
49) 1,4-Dioxane	9.188	88	48	0.88	ug/l #	23
51) 4-Methyl-2-Pentanone	9.921	43	5395	1.00	ug/l	87
54) cis-1,3-Dichloropropene	9.843	75	50848	8.40	ug/l #	60
56) Ethyl methacrylate	10.299	69	269	3.76	ug/l #	22
57) 1,3-Dichloropropane	10.706	76	31490	5.17	ug/l #	43
59) 2-Hexanone	10.706	43	434869	110.17	ug/l #	52
71) Bromoform	12.345	173	1698	0.55	ug/l #	1
74) N-amyl acetate	11.996	43	127	12.75	ug/l #	59
76) 1,2,3-Trichloropropane	12.348	75	101896	21.22	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.348	75	101896	59.27	ug/l #	12
88) 1,4-Dichlorobenzene	13.300	146	146	1.02	ug/l #	1
92) 1,2-Dibromo-3-Chloropr...	14.233	75	175	0.49	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.998	180	238	2.29	ug/l #	42
95) Naphthalene	15.279	128	1234	2.07	ug/l #	81
96) 1,2,3-Trichlorobenzene	15.496	180	137	1.65	ug/l #	12

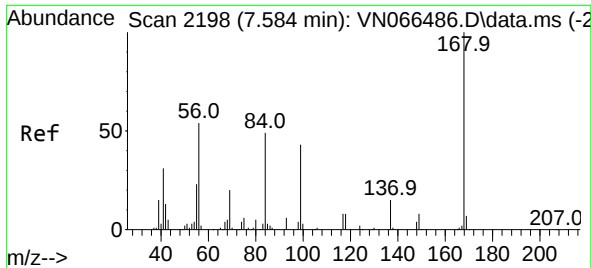
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N040621W.M
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Response via : Initial Calibration

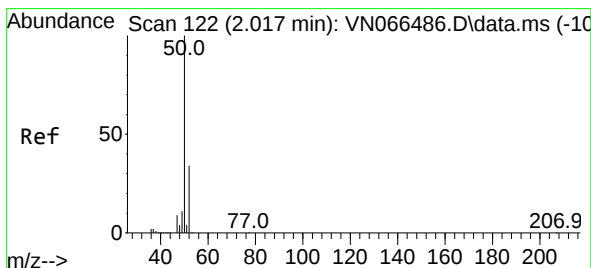
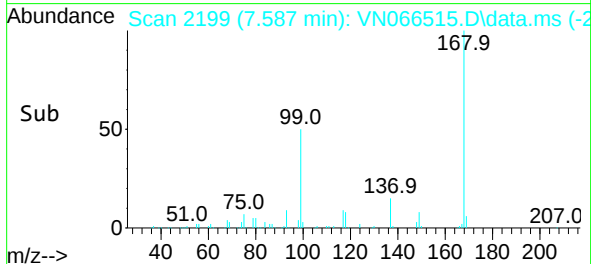
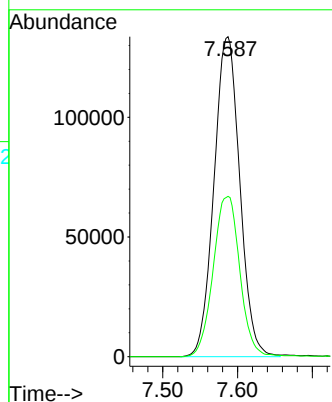
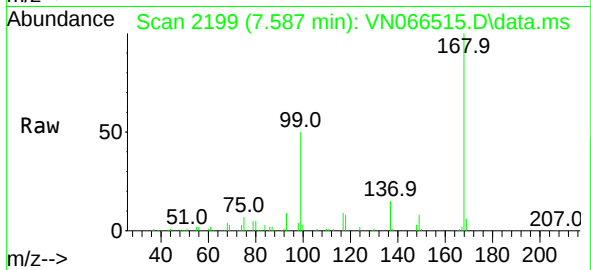




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.587 min Scan# 2199
Delta R.T. 0.003 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

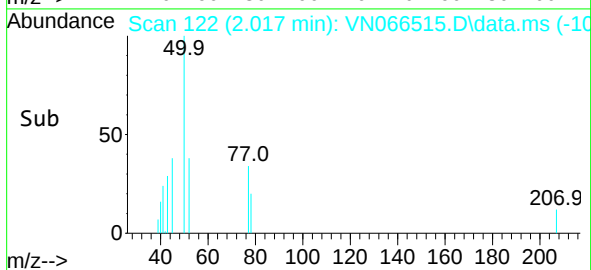
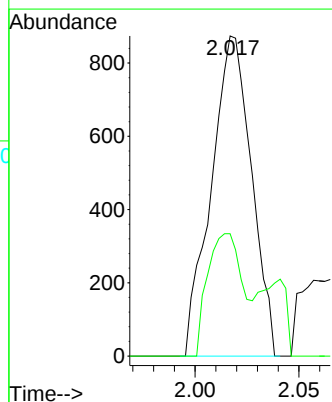
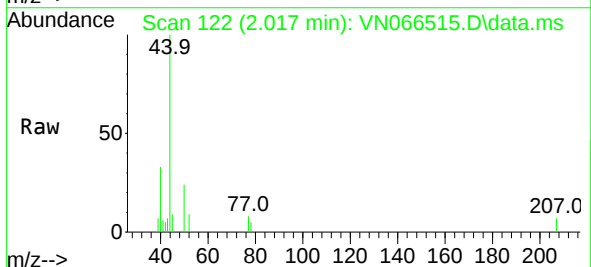
Instrument :
MSVOA_N
ClientSampleId :

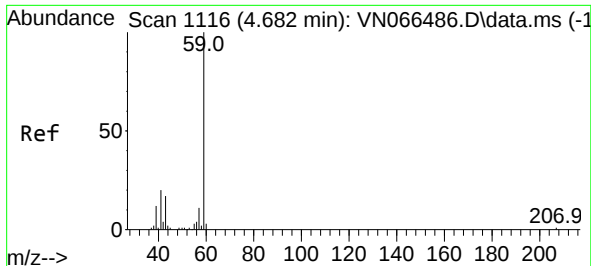
Tgt Ion:168 Resp: 320563
Ion Ratio Lower Upper
168 100
99 50.1 41.1 61.7



#3
Chloromethane
Concen: 0.25 ug/l
RT: 2.017 min Scan# 122
Delta R.T. -0.000 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

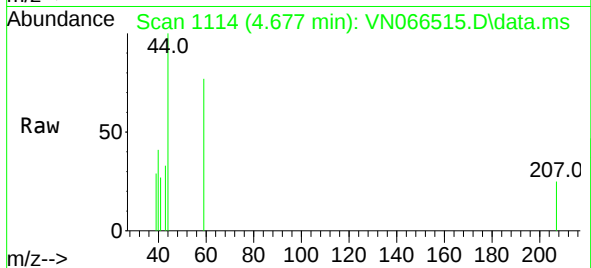
Tgt Ion: 50 Resp: 1179
Ion Ratio Lower Upper
50 100
52 38.2 26.2 39.2



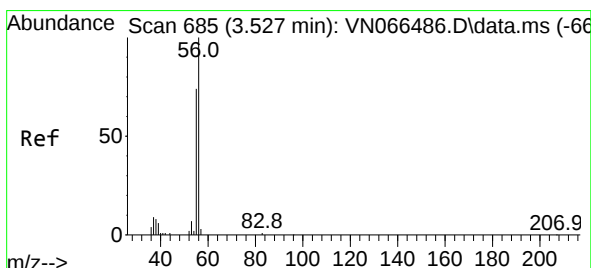
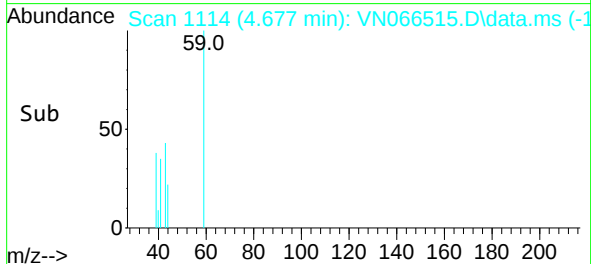
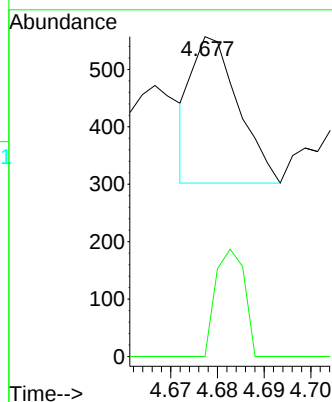


#11
Tert butyl alcohol
Concen: 0.26 ug/l
RT: 4.677 min Scan# 1114
Delta R.T. -0.005 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

Instrument :
MSVOA_N
ClientSampled :

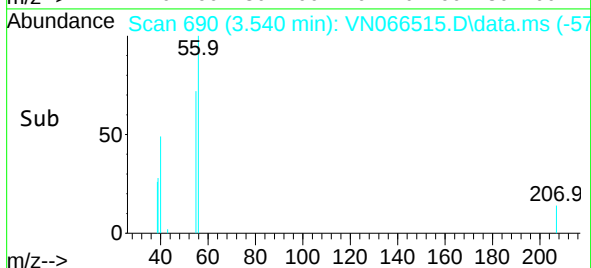
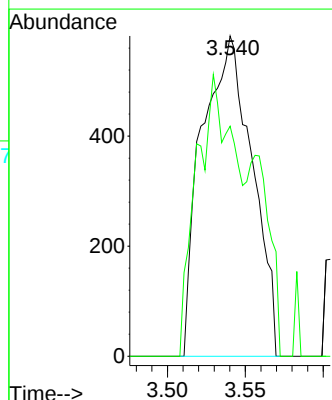
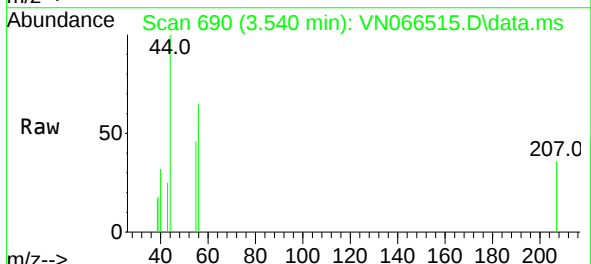


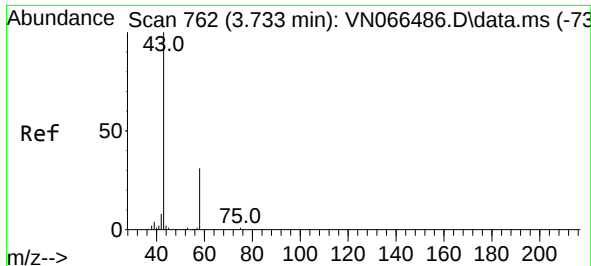
Tgt Ion: 59 Resp: 177
Ion Ratio Lower Upper
59 100
57 45.2 4.1 6.1#



#13
Acrolein
Concen: 7.14 ug/l
RT: 3.540 min Scan# 690
Delta R.T. 0.013 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

Tgt Ion: 56 Resp: 1303
Ion Ratio Lower Upper
56 100
55 66.6 57.9 86.9

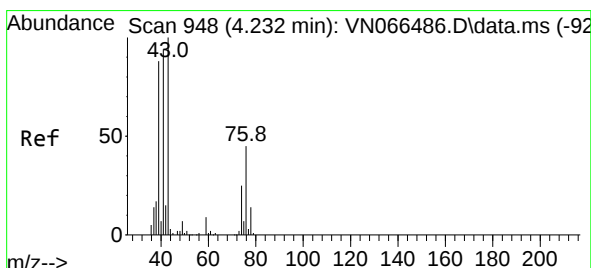
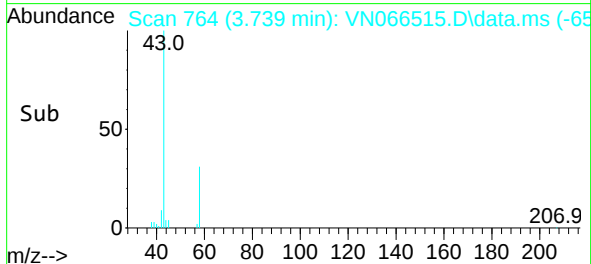
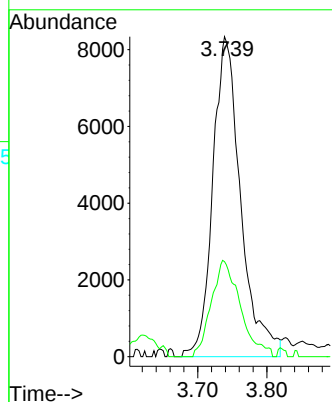
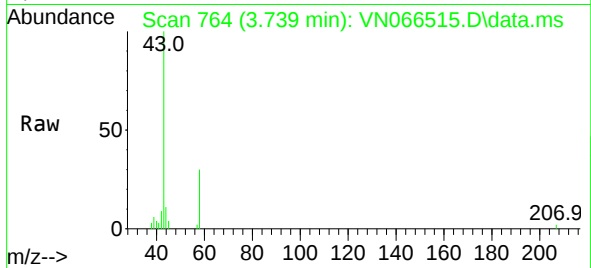




#16
Acetone
Concen: 13.18 ug/l
RT: 3.739 min Scan# 764
Delta R.T. 0.006 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

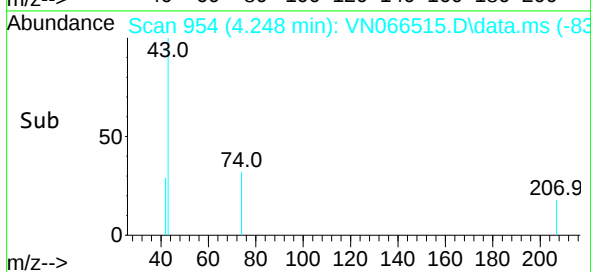
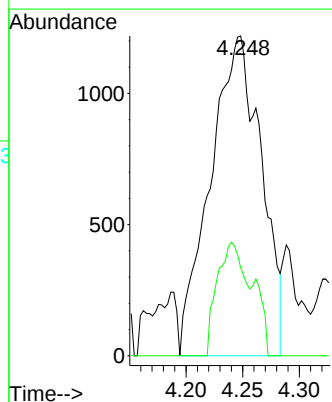
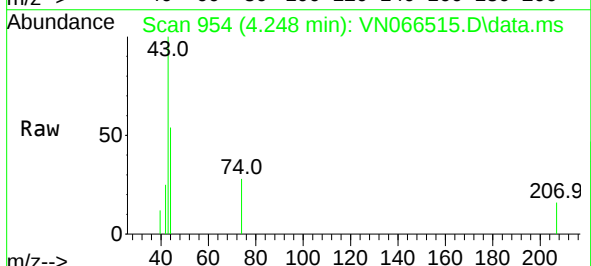
Instrument :
MSVOA_N
ClientSampled :

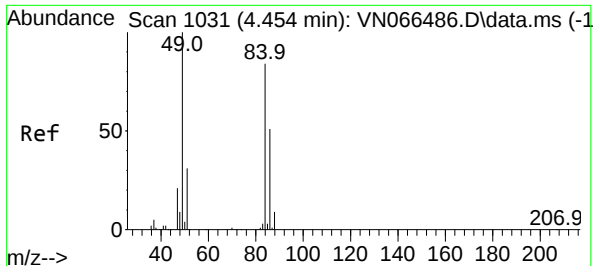
Tgt Ion: 43 Resp: 23314
Ion Ratio Lower Upper
43 100
58 29.7 23.8 35.8



#18
Methyl Acetate
Concen: 0.86 ug/l
RT: 4.248 min Scan# 954
Delta R.T. 0.016 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

Tgt Ion: 43 Resp: 3805
Ion Ratio Lower Upper
43 100
74 19.2 17.6 26.4





#20

Methylene Chloride

Concen: 3.26 ug/l

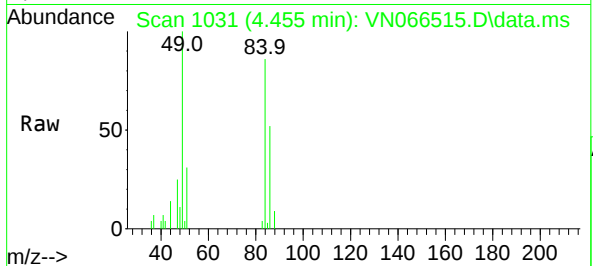
RT: 4.455 min Scan# 1031

Delta R.T. 0.001 min

Lab File: VN066515.D

Acq: 7 Apr 2021 18:59

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 12401

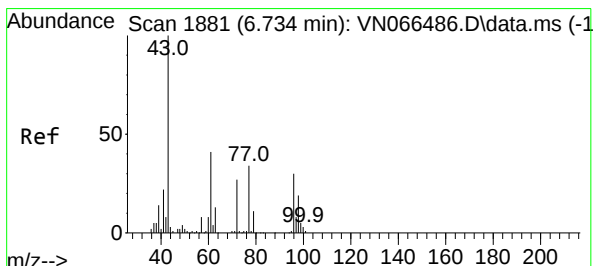
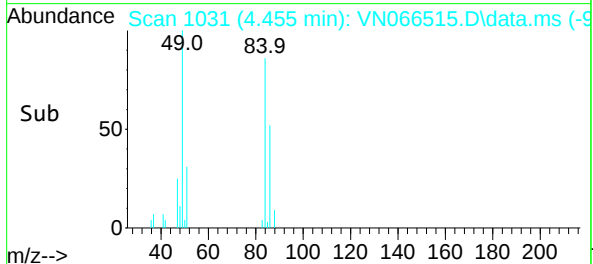
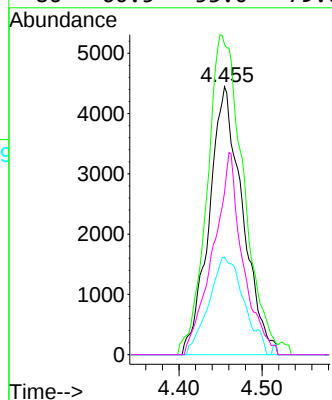
Ion Ratio Lower Upper

84 100

49 111.7 105.0 157.6

51 36.4 31.6 47.4

86 60.5 53.0 79.6



#25

2-Butanone

Concen: 4.39 ug/l

RT: 6.748 min Scan# 1886

Delta R.T. 0.014 min

Lab File: VN066515.D

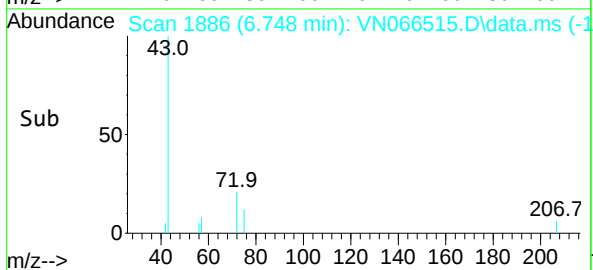
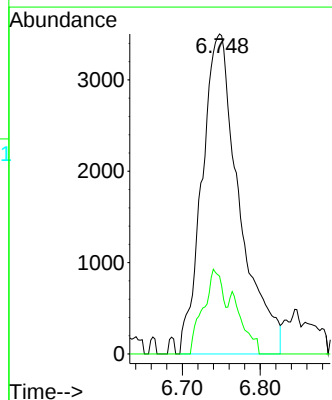
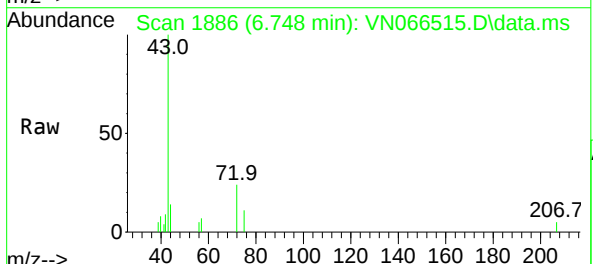
Acq: 7 Apr 2021 18:59

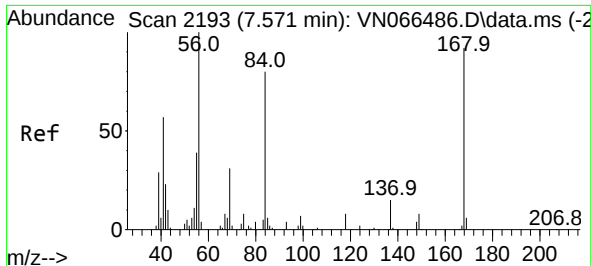
Tgt Ion: 43 Resp: 11641

Ion Ratio Lower Upper

43 100

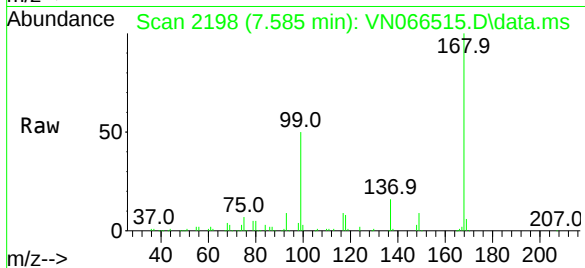
72 24.3 20.7 31.1



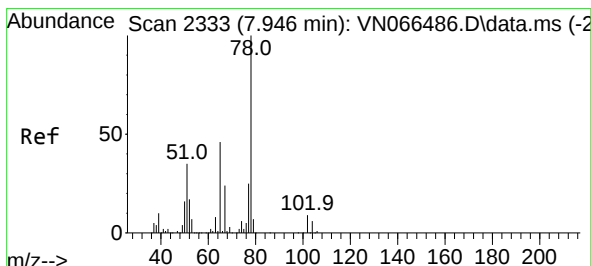
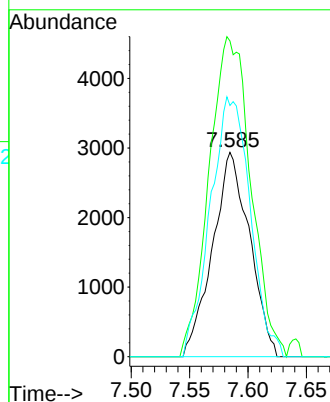
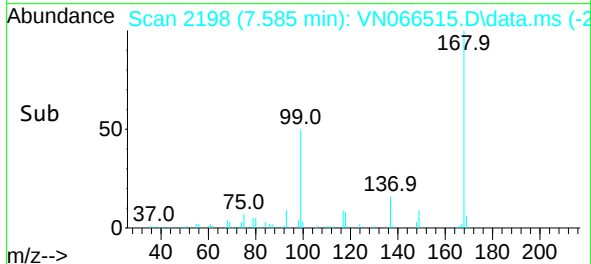


#31
Cyclohexane
Concen: 1.12 ug/l
RT: 7.585 min Scan# 2198
Delta R.T. 0.014 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

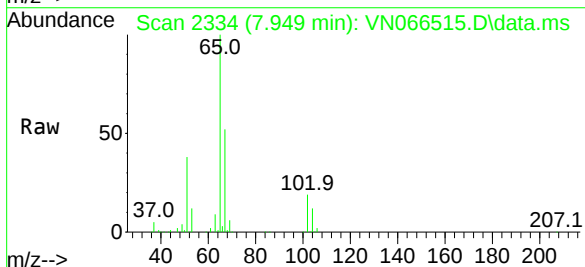
Instrument :
MSVOA_N
ClientSampleId :



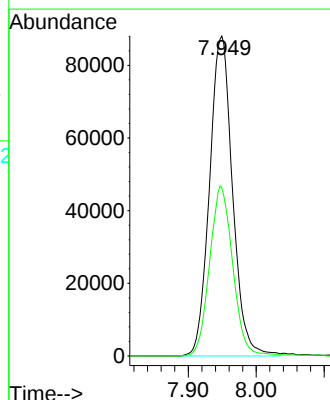
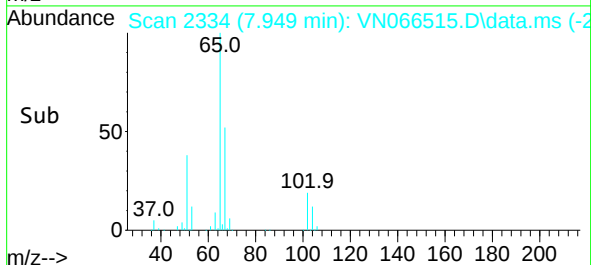
Tgt Ion: 56 Resp: 6478
Ion Ratio Lower Upper
56 100
69 154.5 26.6 40.0#
84 122.9 68.7 103.1#

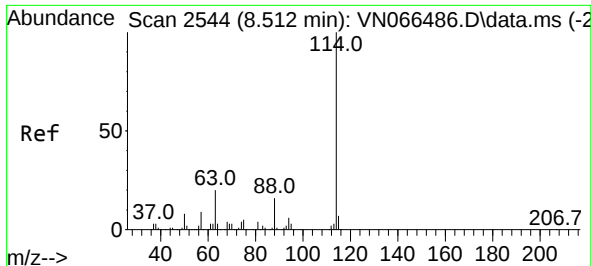


#33
1,2-Dichloroethane-d4
Concen: 49.07 ug/l
RT: 7.949 min Scan# 2334
Delta R.T. 0.003 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59



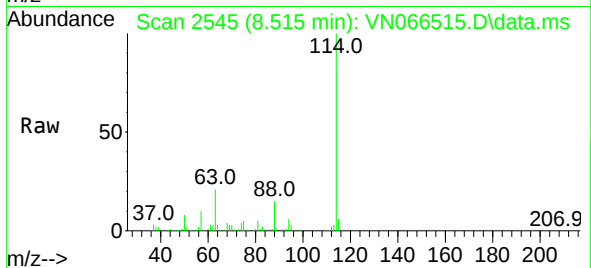
Tgt Ion: 65 Resp: 207149
Ion Ratio Lower Upper
65 100
67 53.3 0.0 105.2



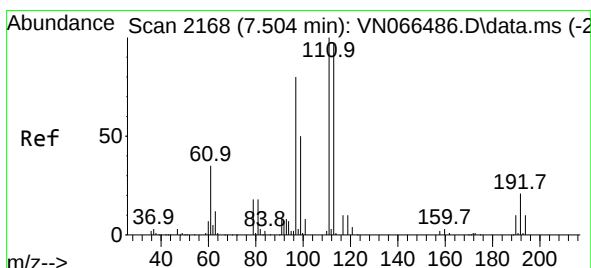
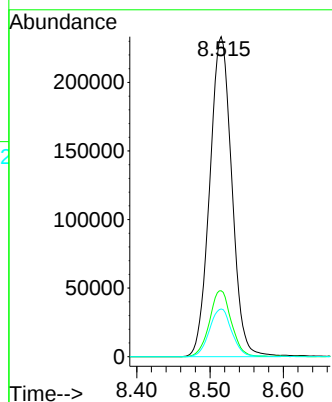
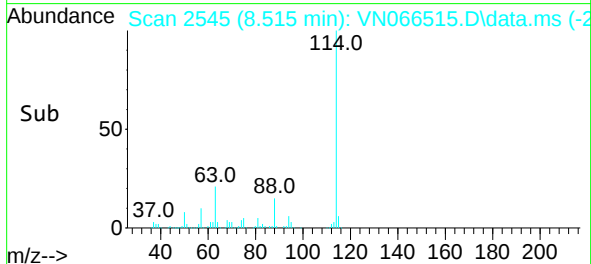


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.515 min Scan# 2545
Delta R.T. 0.003 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

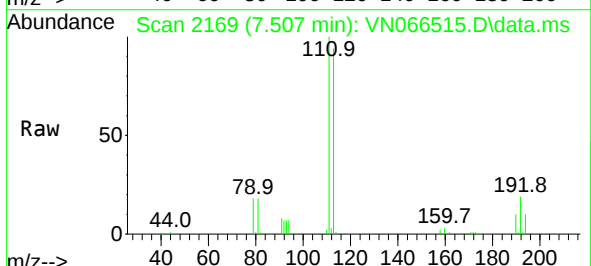
Instrument :
MSVOA_N
ClientSampleId :



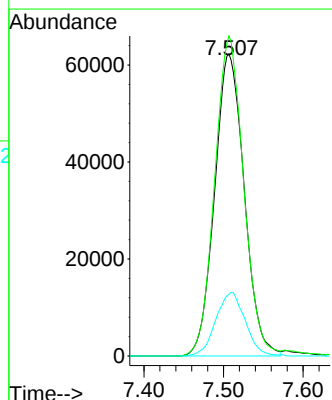
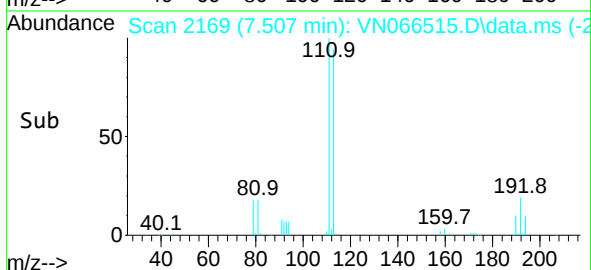
Tgt Ion:114 Resp: 488028
Ion Ratio Lower Upper
114 100
63 20.6 0.0 42.0
88 14.9 0.0 31.0

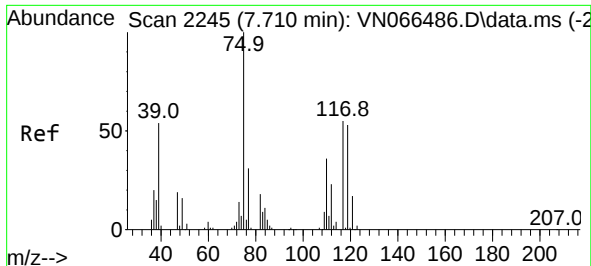


#35
Dibromofluoromethane
Concen: 48.40 ug/l
RT: 7.507 min Scan# 2169
Delta R.T. 0.003 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59



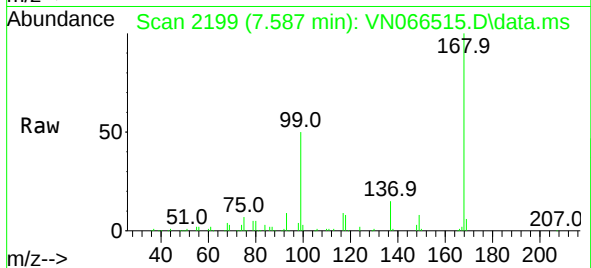
Tgt Ion:113 Resp: 160987
Ion Ratio Lower Upper
113 100
111 103.4 81.8 122.8
192 20.9 17.1 25.7



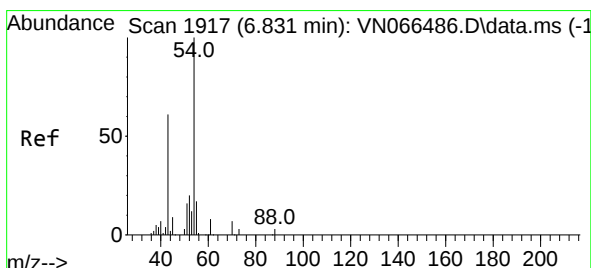
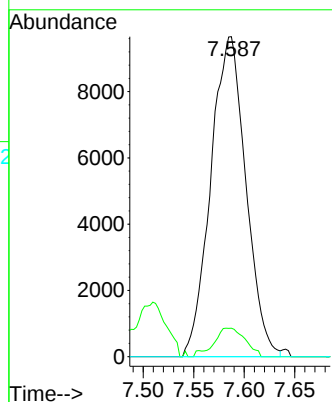
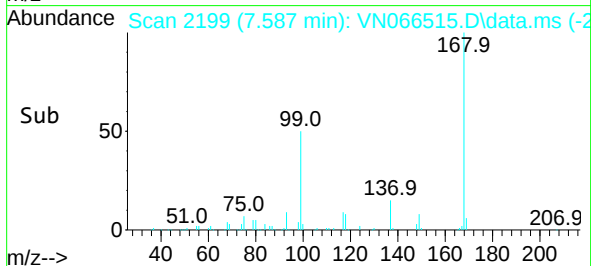


#36
1,1-Dichloropropene
Concen: 4.92 ug/l
RT: 7.587 min Scan# 2199
Delta R.T. -0.123 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

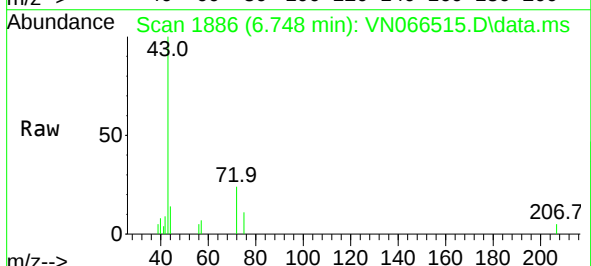
Instrument :
MSVOA_N
ClientSampleId :



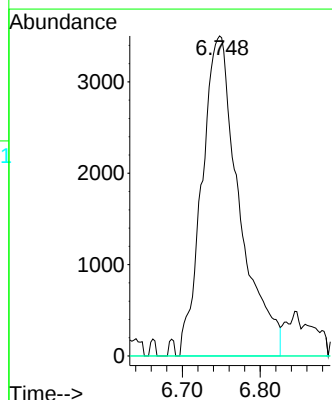
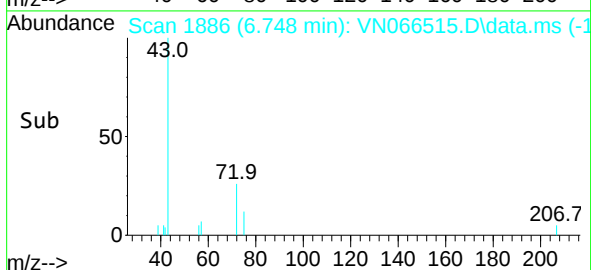
Tgt Ion: 75 Resp: 23341
Ion Ratio Lower Upper
75 100
110 7.4 18.1 54.3#
77 0.0 25.0 37.4#

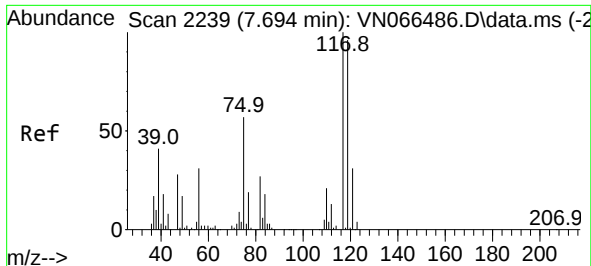


#37
Ethyl Acetate
Concen: 1.98 ug/l
RT: 6.748 min Scan# 1886
Delta R.T. -0.083 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59



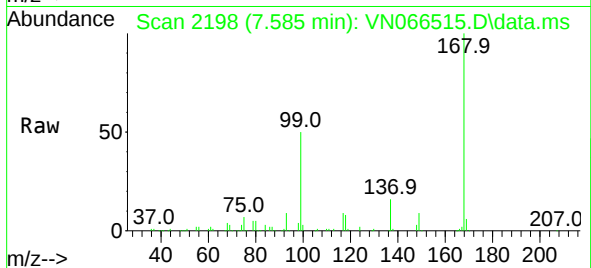
Tgt Ion: 43 Resp: 11641
Ion Ratio Lower Upper
43 100
61 0.0 11.1 16.7#
70 0.0 8.0 12.0#



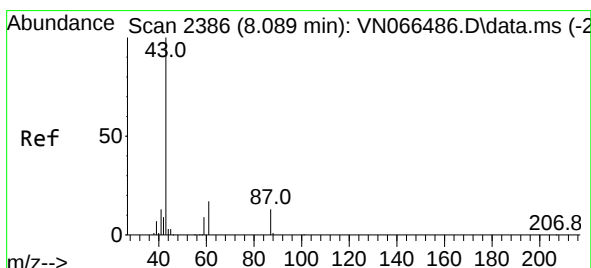
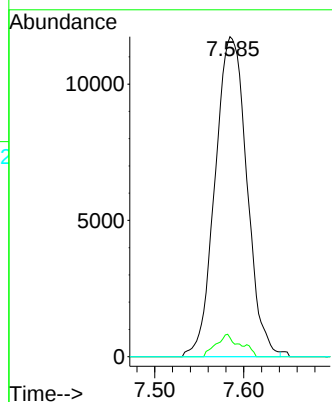
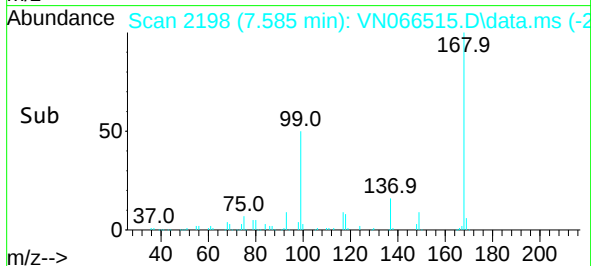


#38
Carbon Tetrachloride
Concen: 6.06 ug/l
RT: 7.585 min Scan# 2198
Delta R.T. -0.109 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

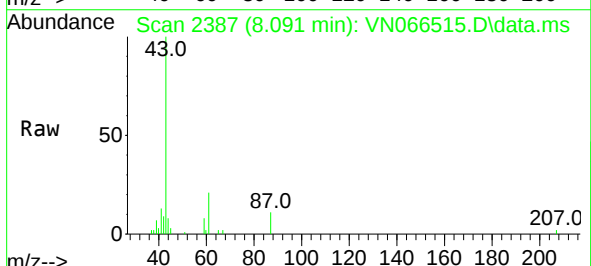
Instrument :
MSVOA_N
ClientSampleId :



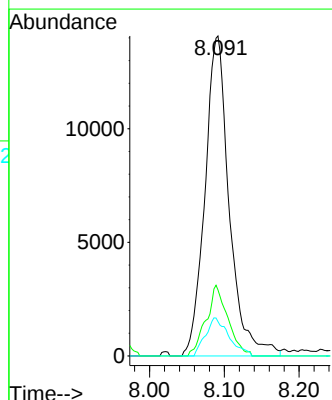
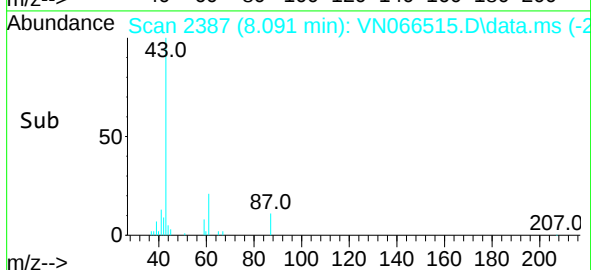
Tgt Ion:117 Resp: 29109
Ion Ratio Lower Upper
117 100
119 6.0 77.2 115.8#
121 0.0 24.2 36.4#

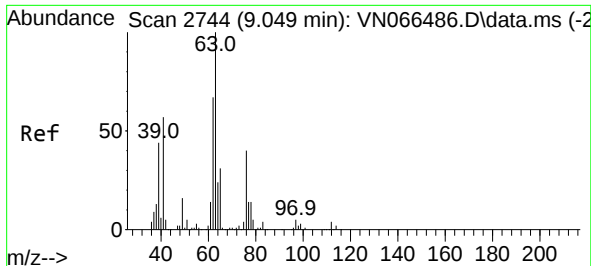


#43
Isopropyl Acetate
Concen: 3.50 ug/l
RT: 8.091 min Scan# 2387
Delta R.T. 0.002 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59



Tgt Ion: 43 Resp: 31850
Ion Ratio Lower Upper
43 100
61 19.8 15.5 23.3
87 11.5 10.5 15.7

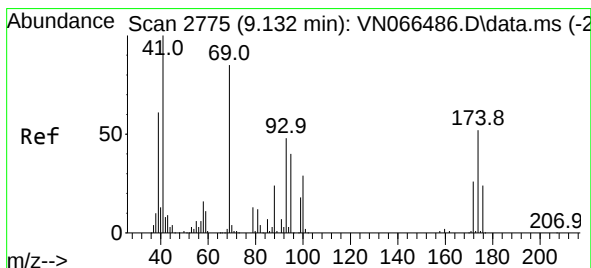
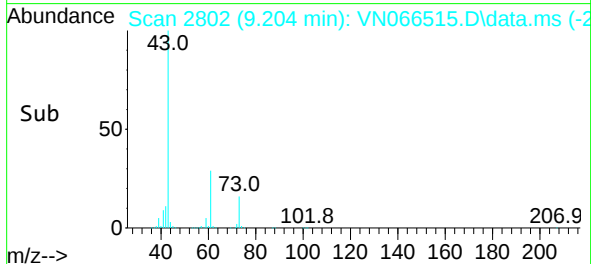
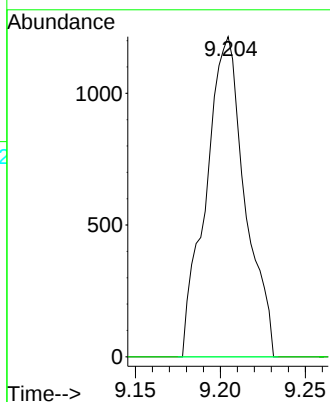
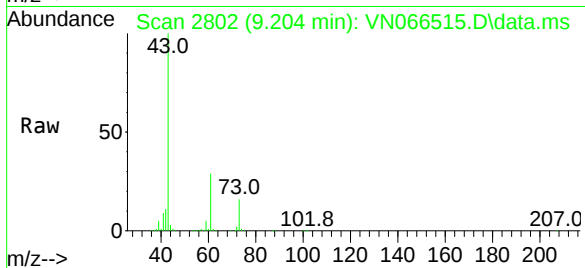




#45
1,2-Dichloropropane
Concen: 0.49 ug/l
RT: 9.204 min Scan# 2802
Delta R.T. 0.155 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

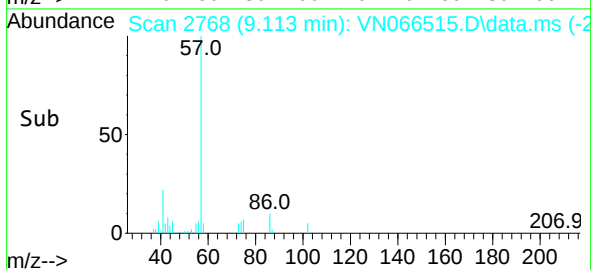
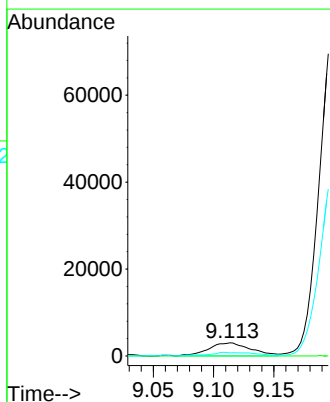
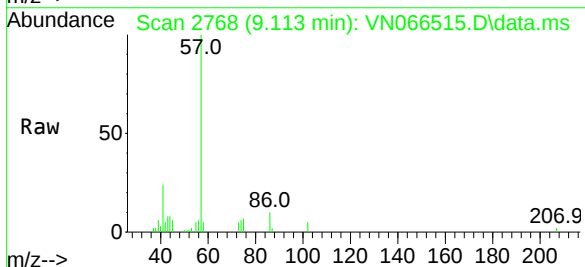
Instrument :
MSVOA_N
ClientSampled :

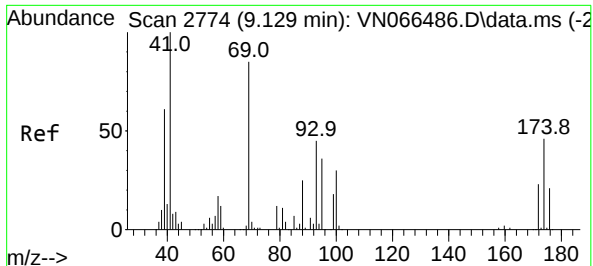
Tgt Ion: 63 Resp: 1940
Ion Ratio Lower Upper
63 100
65 0.0 25.5 38.3#



#48
Methyl methacrylate
Concen: 1.82 ug/l
RT: 9.113 min Scan# 2768
Delta R.T. -0.019 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

Tgt Ion: 41 Resp: 7357
Ion Ratio Lower Upper
41 100
69 0.0 66.2 99.4#
39 0.0 51.5 77.3#

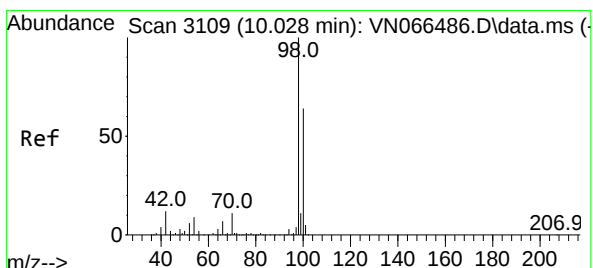
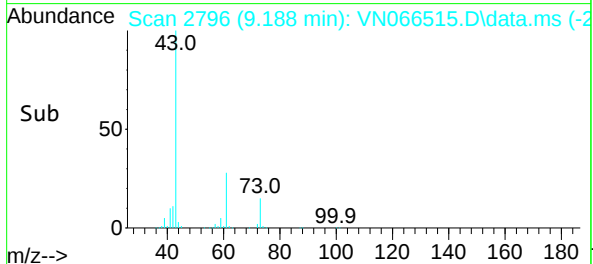
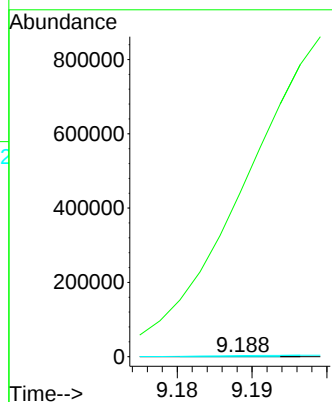
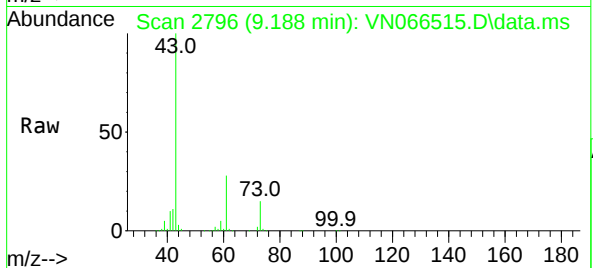




#49
1,4-Dioxane
Concen: 0.88 ug/l
RT: 9.188 min Scan# 2796
Delta R.T. 0.059 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

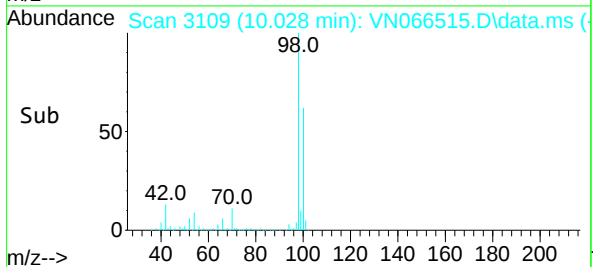
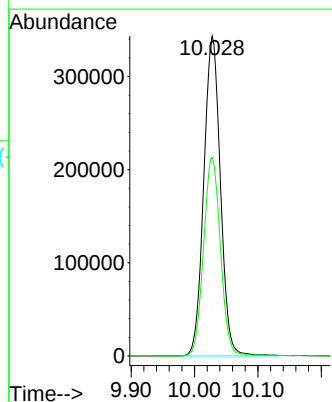
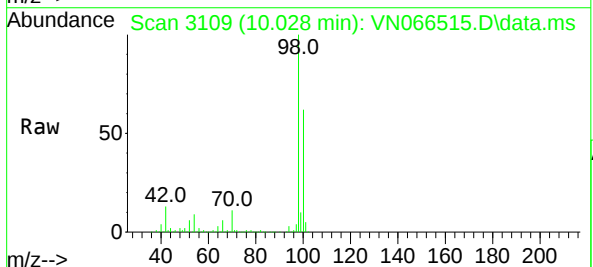
Instrument :
MSVOA_N
ClientSampled :

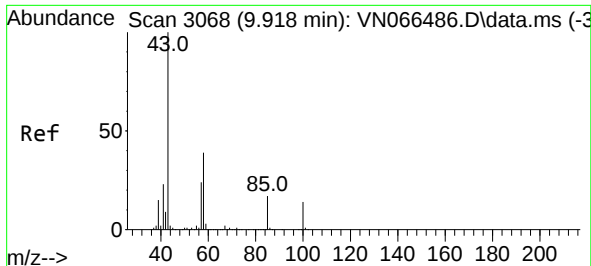
Tgt Ion: 88 Resp: 48
Ion Ratio Lower Upper
88 100
43 0.0 28.2 42.4#
58 0.0 56.6 84.8#



#50
Toluene-d8
Concen: 49.56 ug/l
RT: 10.028 min Scan# 3109
Delta R.T. -0.000 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

Tgt Ion: 98 Resp: 626384
Ion Ratio Lower Upper
98 100
100 62.8 50.5 75.7

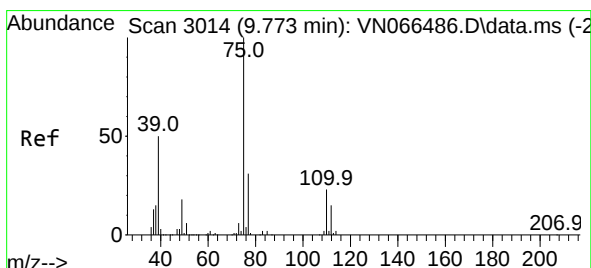
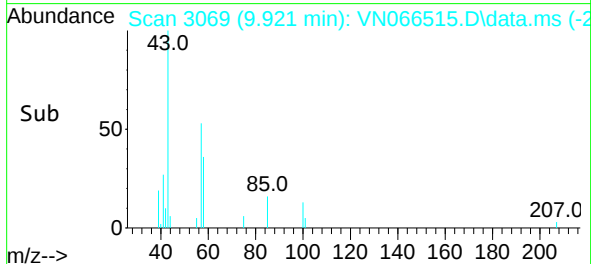
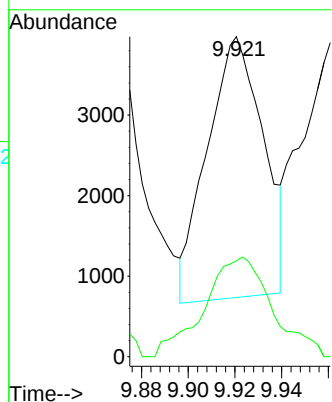
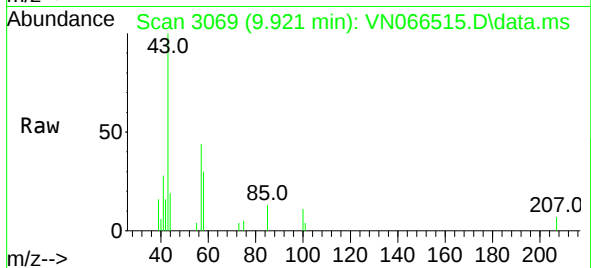




#51
4-Methyl-2-Pentanone
Concen: 1.00 ug/l
RT: 9.921 min Scan# 3069
Delta R.T. 0.003 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

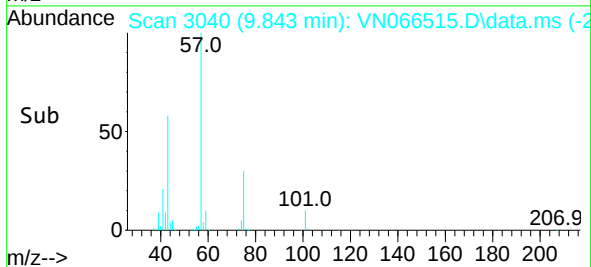
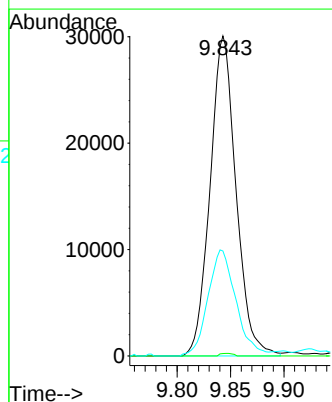
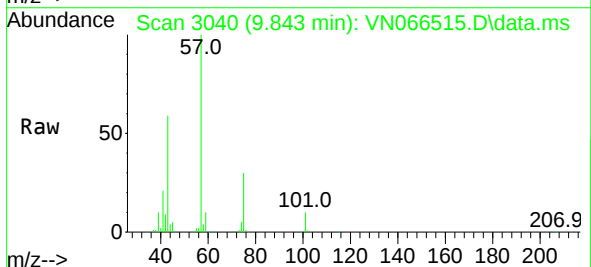
Instrument :
MSVOA_N
ClientSampled :

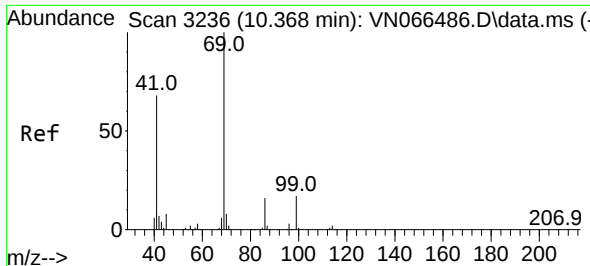
Tgt Ion: 43 Resp: 5395
Ion Ratio Lower Upper
43 100
58 46.2 30.8 46.2



#54
cis-1,3-Dichloropropene
Concen: 8.40 ug/l
RT: 9.843 min Scan# 3040
Delta R.T. 0.070 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

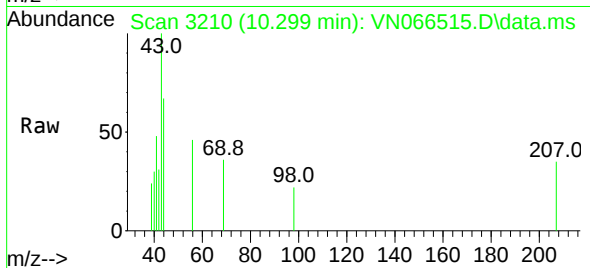
Tgt Ion: 75 Resp: 50848
Ion Ratio Lower Upper
75 100
77 0.7 25.4 38.2#
39 32.8 44.2 66.4#



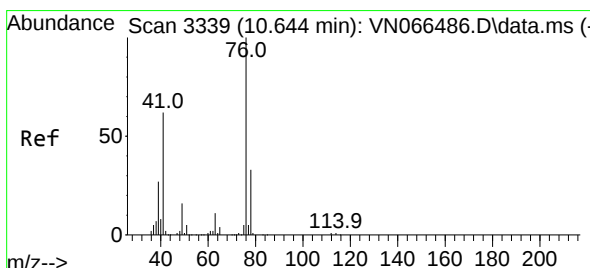
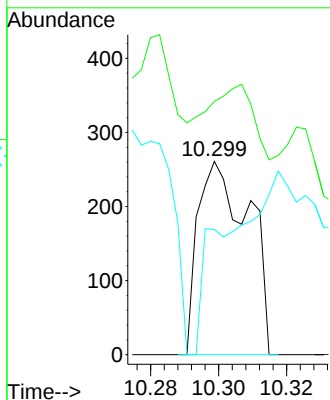
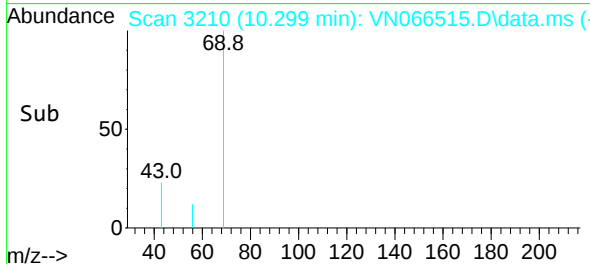


#56
Ethyl methacrylate
Concen: 3.76 ug/l
RT: 10.299 min Scan# 3210
Delta R.T. -0.069 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

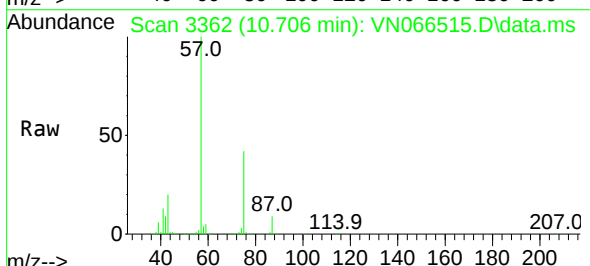
Instrument :
MSVOA_N
ClientSampleId :



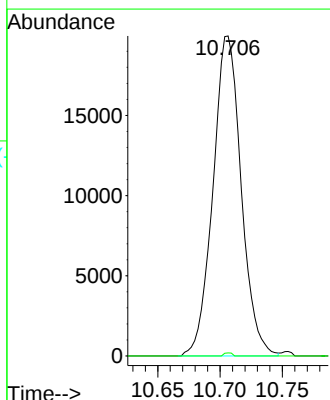
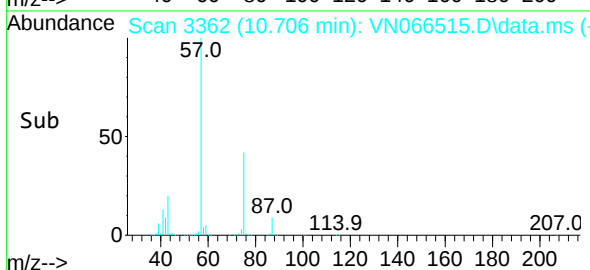
Tgt Ion: 69 Resp: 269
Ion Ratio Lower Upper
69 100
41 0.0 55.3 82.9#
39 0.0 33.8 50.6#

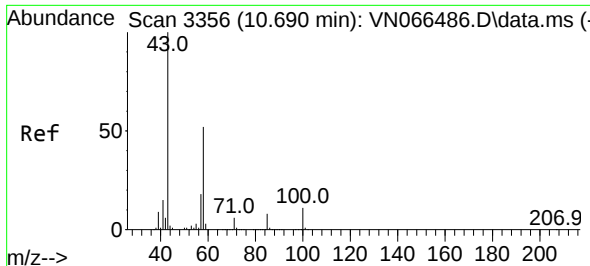


#57
1,3-Dichloropropane
Concen: 5.17 ug/l
RT: 10.706 min Scan# 3362
Delta R.T. 0.062 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59



Tgt Ion: 76 Resp: 31490
Ion Ratio Lower Upper
76 100
78 0.3 25.9 38.9#

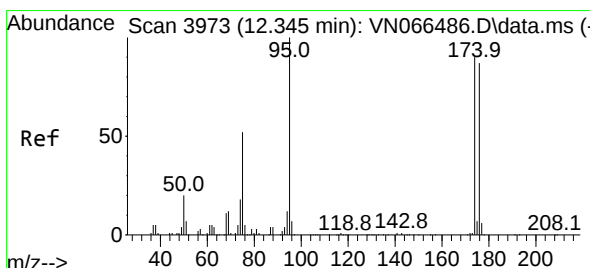
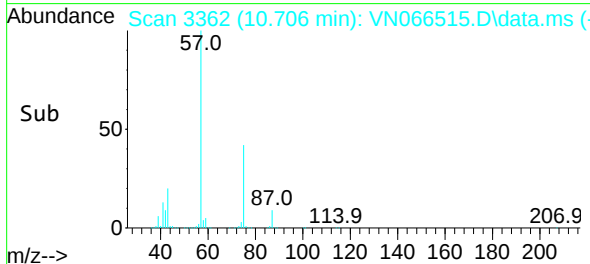
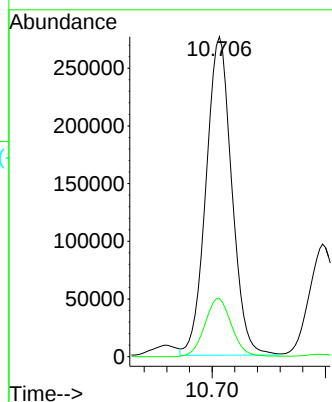
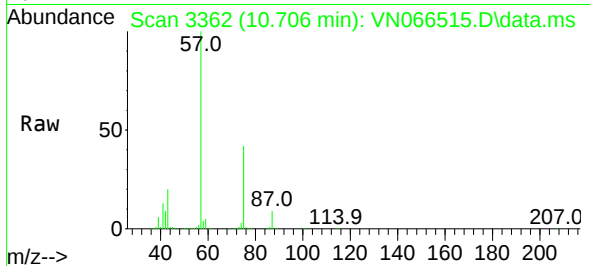




#59
2-Hexanone
Concen: 110.17 ug/l
RT: 10.706 min Scan# 3362
Delta R.T. 0.016 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

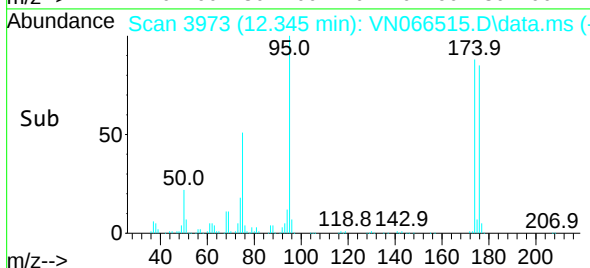
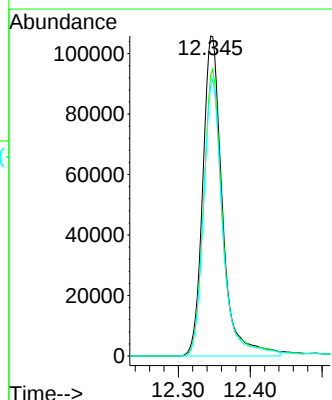
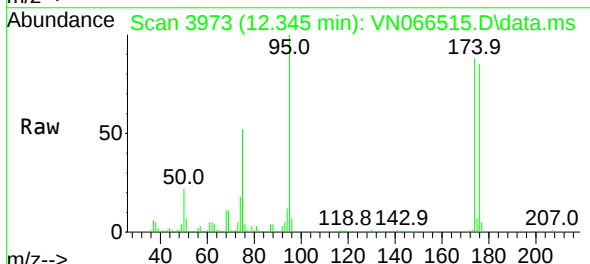
Instrument :
MSVOA_N
ClientSampleId :

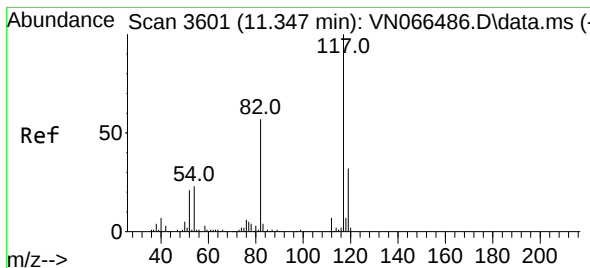
Tgt Ion: 43 Resp: 434869
Ion Ratio Lower Upper
43 100
58 19.2 26.6 79.8#



#62
4-Bromofluorobenzene
Concen: 48.94 ug/l
RT: 12.345 min Scan# 3973
Delta R.T. 0.000 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

Tgt Ion: 95 Resp: 200552
Ion Ratio Lower Upper
95 100
174 88.6 0.0 172.2
176 85.5 0.0 167.8

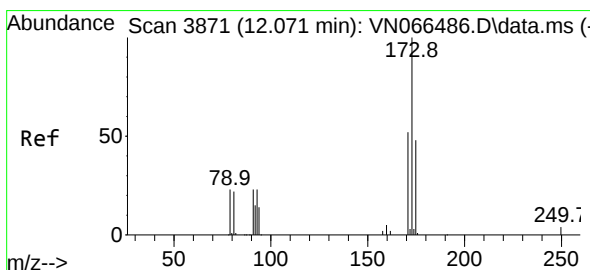
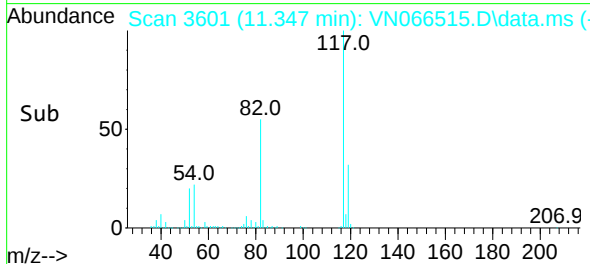
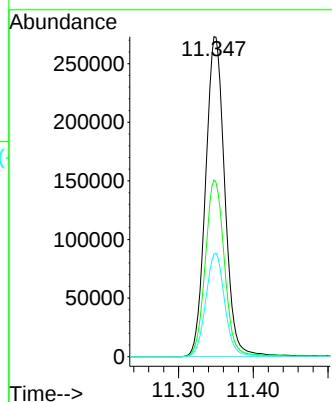
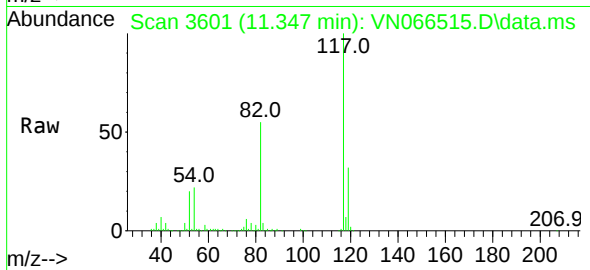




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.347 min Scan# 3601
Delta R.T. 0.000 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

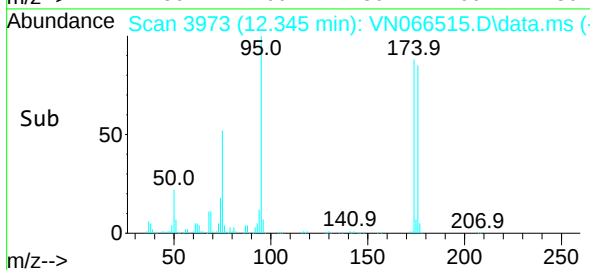
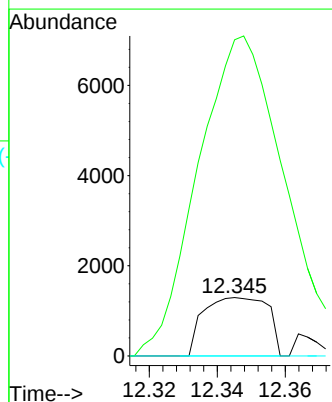
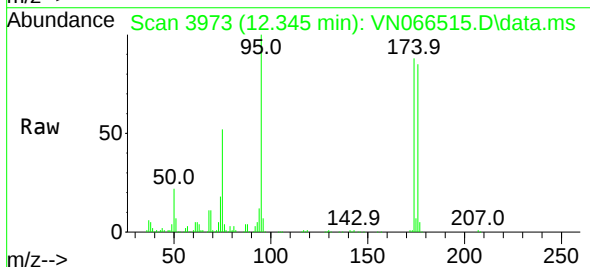
Instrument :
MSVOA_N
ClientSampleId :

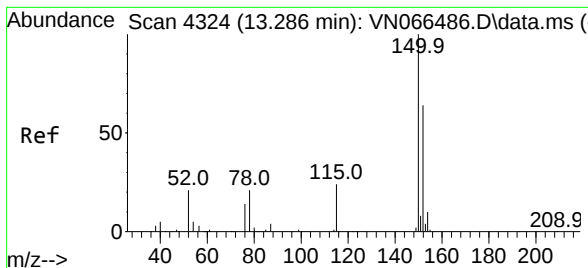
Tgt Ion:117 Resp: 486680
Ion Ratio Lower Upper
117 100
82 55.2 44.2 66.4
119 32.1 25.8 38.6



#71
Bromoform
Concen: 0.55 ug/l
RT: 12.345 min Scan# 3973
Delta R.T. 0.274 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

Tgt Ion:173 Resp: 1698
Ion Ratio Lower Upper
173 100
175 659.2 24.3 72.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.289 min Scan# 4325

Delta R.T. 0.003 min

Lab File: VN066515.D

Acq: 7 Apr 2021 18:59

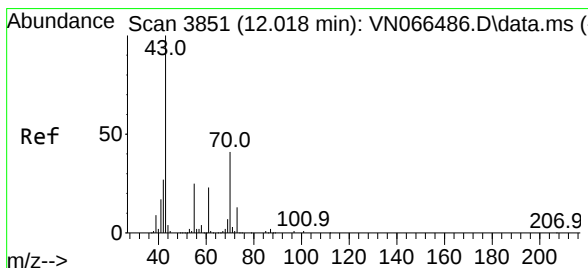
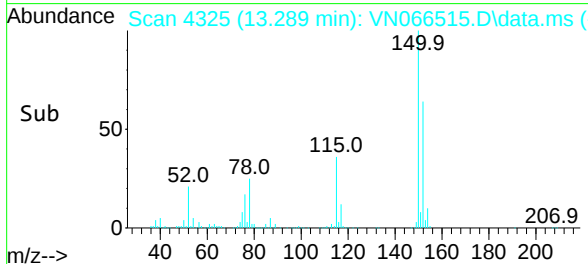
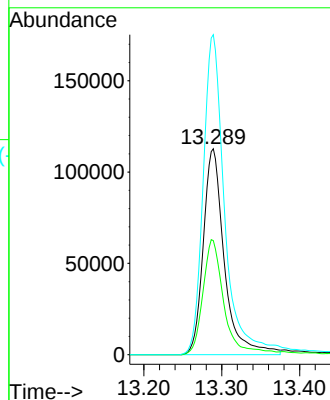
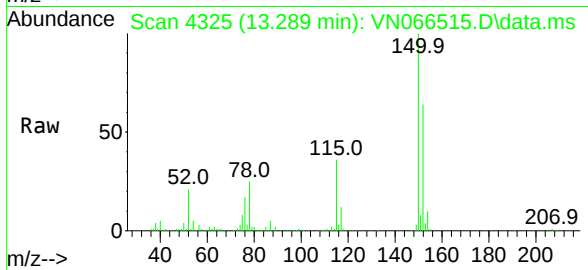
Tgt Ion:152 Resp: 212818

Ion Ratio Lower Upper

152 100

115 55.6 27.8 83.4

150 162.2 0.0 348.4



#74

N-ethyl acetate

Concen: 12.75 ug/l

RT: 11.996 min Scan# 3843

Delta R.T. -0.022 min

Lab File: VN066515.D

Acq: 7 Apr 2021 18:59

Tgt Ion: 43 Resp: 127

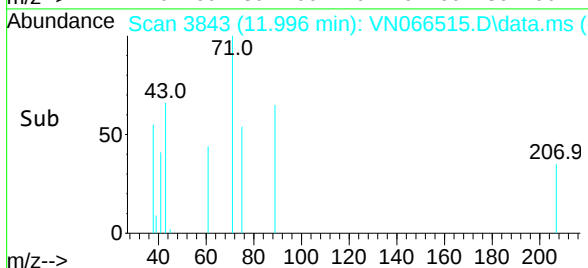
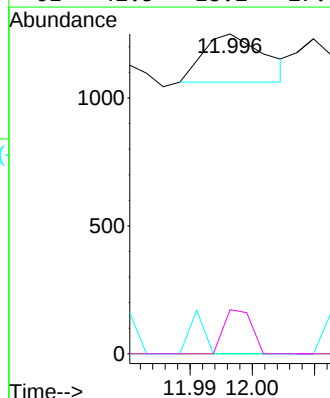
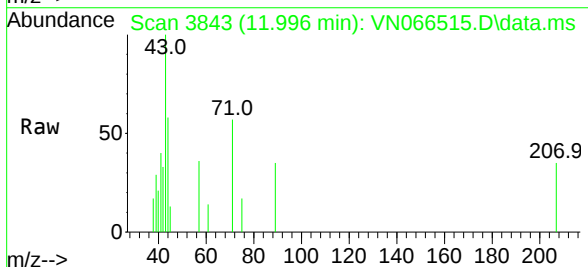
Ion Ratio Lower Upper

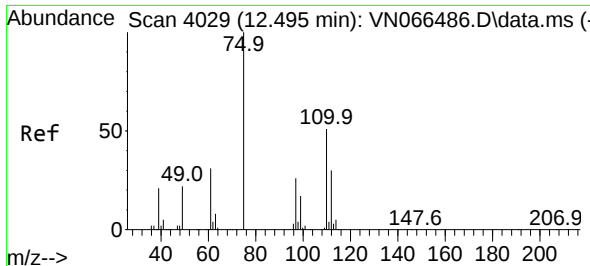
43 100

70 0.0 31.2 46.8#

55 21.3 18.6 28.0

61 42.5 18.2 27.4#

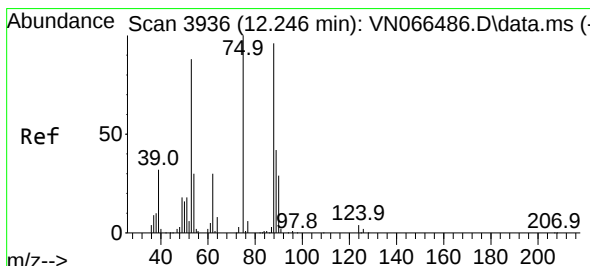
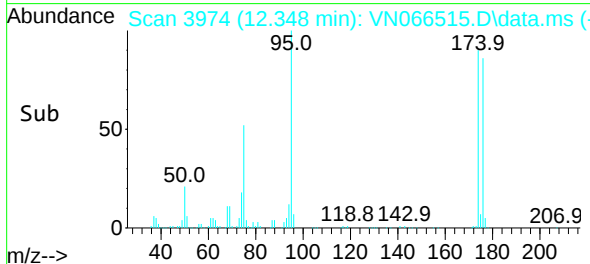
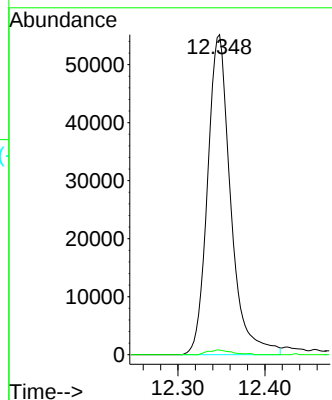
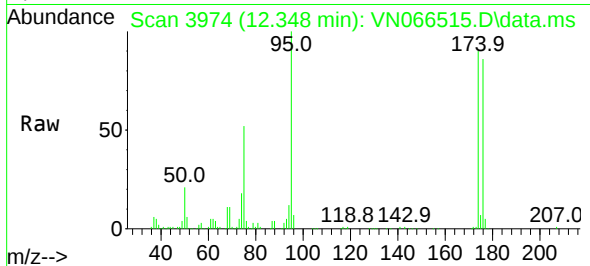




#76
1,2,3-Trichloropropane
Concen: 21.22 ug/l
RT: 12.348 min Scan# 3974
Delta R.T. -0.147 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

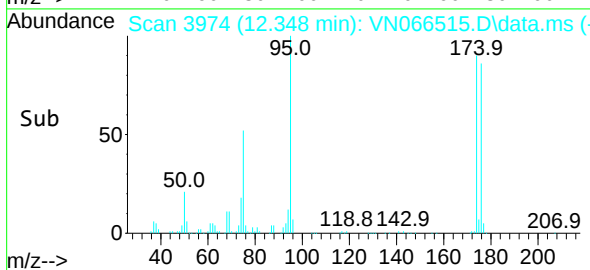
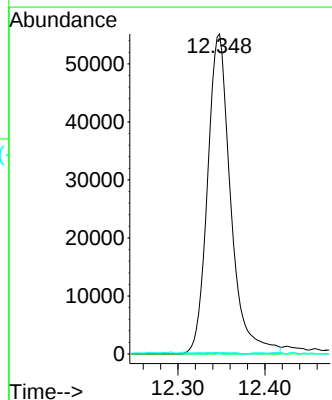
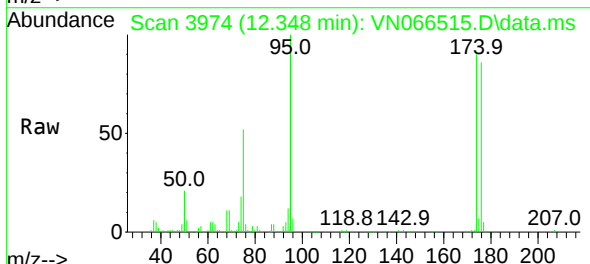
Instrument :
MSVOA_N
ClientSampleId :

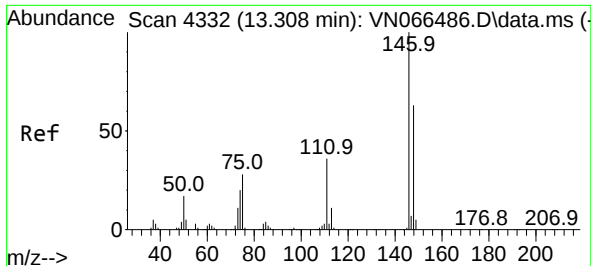
Tgt Ion: 75 Resp: 101896
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 59.27 ug/l
RT: 12.348 min Scan# 3974
Delta R.T. 0.102 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

Tgt Ion: 75 Resp: 101896
Ion Ratio Lower Upper
75 100
53 0.1 76.1 114.1#
89 0.2 35.7 53.5#

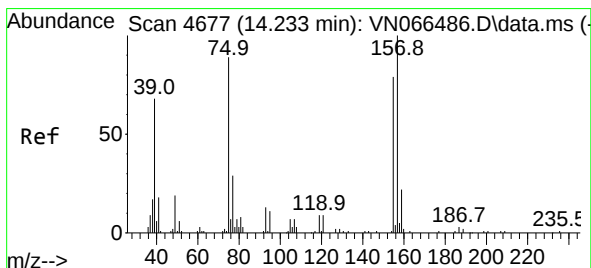
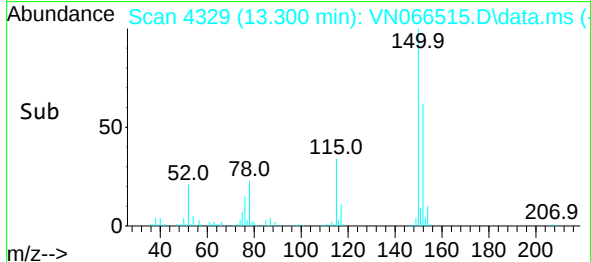
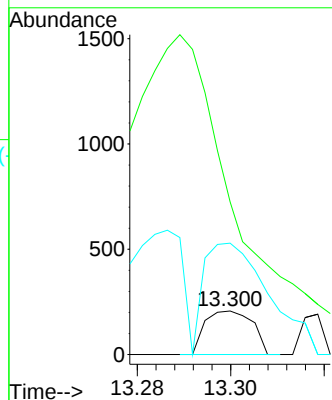
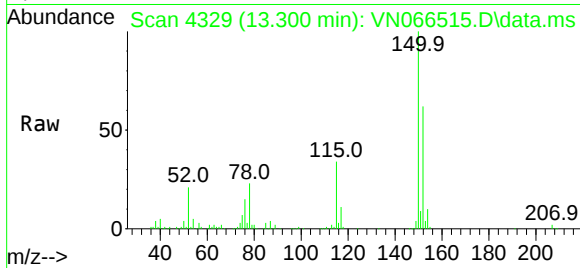




#88
 1,4-Dichlorobenzene
 Concen: 1.02 ug/l
 RT: 13.300 min Scan# 4329
 Delta R.T. -0.008 min
 Lab File: VN066515.D
 Acq: 7 Apr 2021 18:59

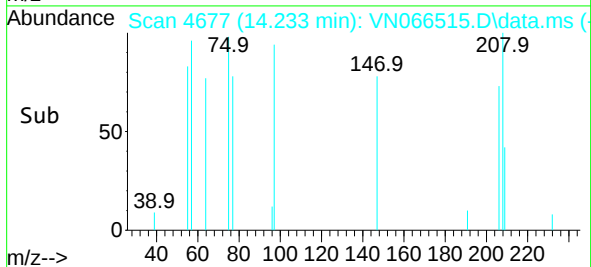
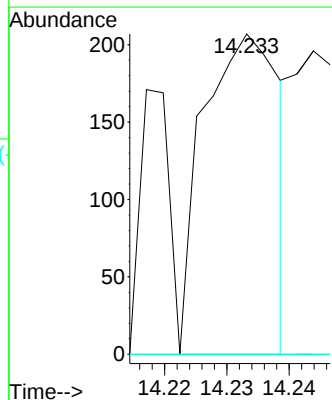
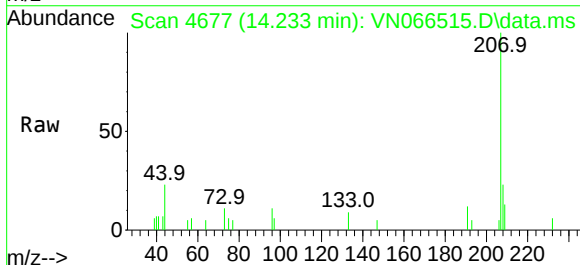
Instrument :
 MSVOA_N
 ClientSampleId :

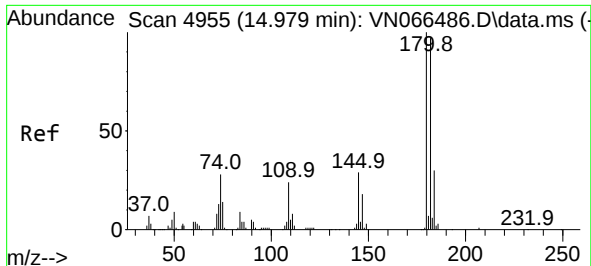
Tgt Ion:146 Resp: 146
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.3 54.9#
 148 352.7 31.9 95.9#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.49 ug/l
 RT: 14.233 min Scan# 4677
 Delta R.T. 0.000 min
 Lab File: VN066515.D
 Acq: 7 Apr 2021 18:59

Tgt Ion: 75 Resp: 175
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.8 131.3#
 157 0.0 57.6 172.8#

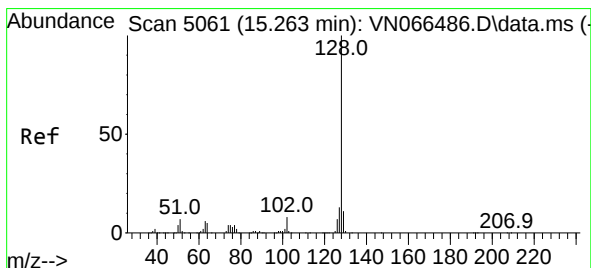
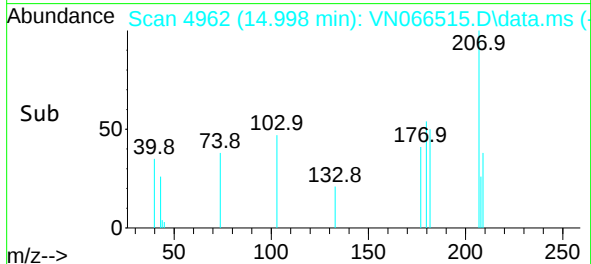
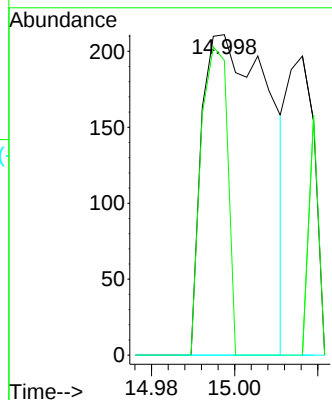
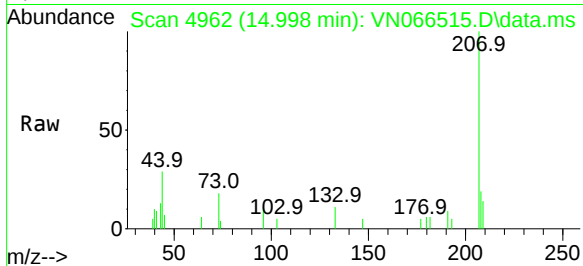




#93
1,2,4-Trichlorobenzene
Concen: 2.29 ug/l
RT: 14.998 min Scan# 4962
Delta R.T. 0.019 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

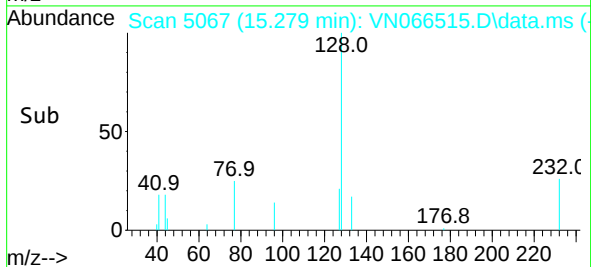
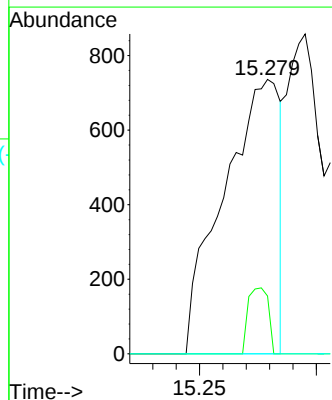
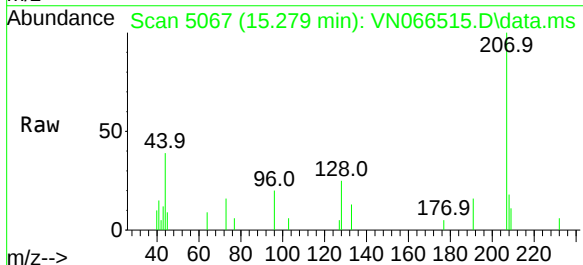
Instrument :
MSVOA_N
ClientSampleId :

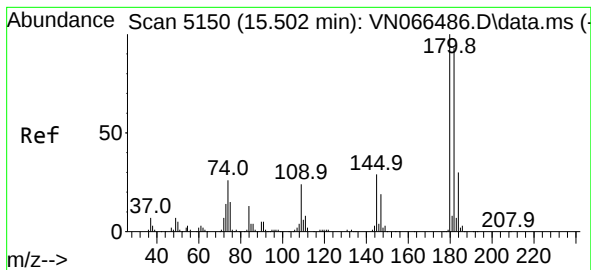
Tgt Ion:180 Resp: 238
Ion Ratio Lower Upper
180 100
182 37.4 47.4 142.3#
145 0.0 14.2 42.8#



#95
Naphthalene
Concen: 2.07 ug/l
RT: 15.279 min Scan# 5067
Delta R.T. 0.016 min
Lab File: VN066515.D
Acq: 7 Apr 2021 18:59

Tgt Ion:128 Resp: 1234
Ion Ratio Lower Upper
128 100
127 8.6 10.5 15.7#
129 0.0 8.5 12.7#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.65 ug/l
 RT: 15.496 min Scan# 5148
 Delta R.T. -0.006 min
 Lab File: VN066515.D
 Acq: 7 Apr 2021 18:59

Instrument :
 MSVOA_N
 ClientSampleId :

Tgt Ion:180 Resp: 137
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.6 142.9#
 145 0.0 15.4 46.1#

