

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031621\
 Data File : VN066215.D
 Acq On : 16 Mar 2021 16:58
 Operator : JC/MD
 Sample : VN0316WBL01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 17 05:22:48 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031621W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 17 05:05:15 2021
 Response via : Initial Calibration

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

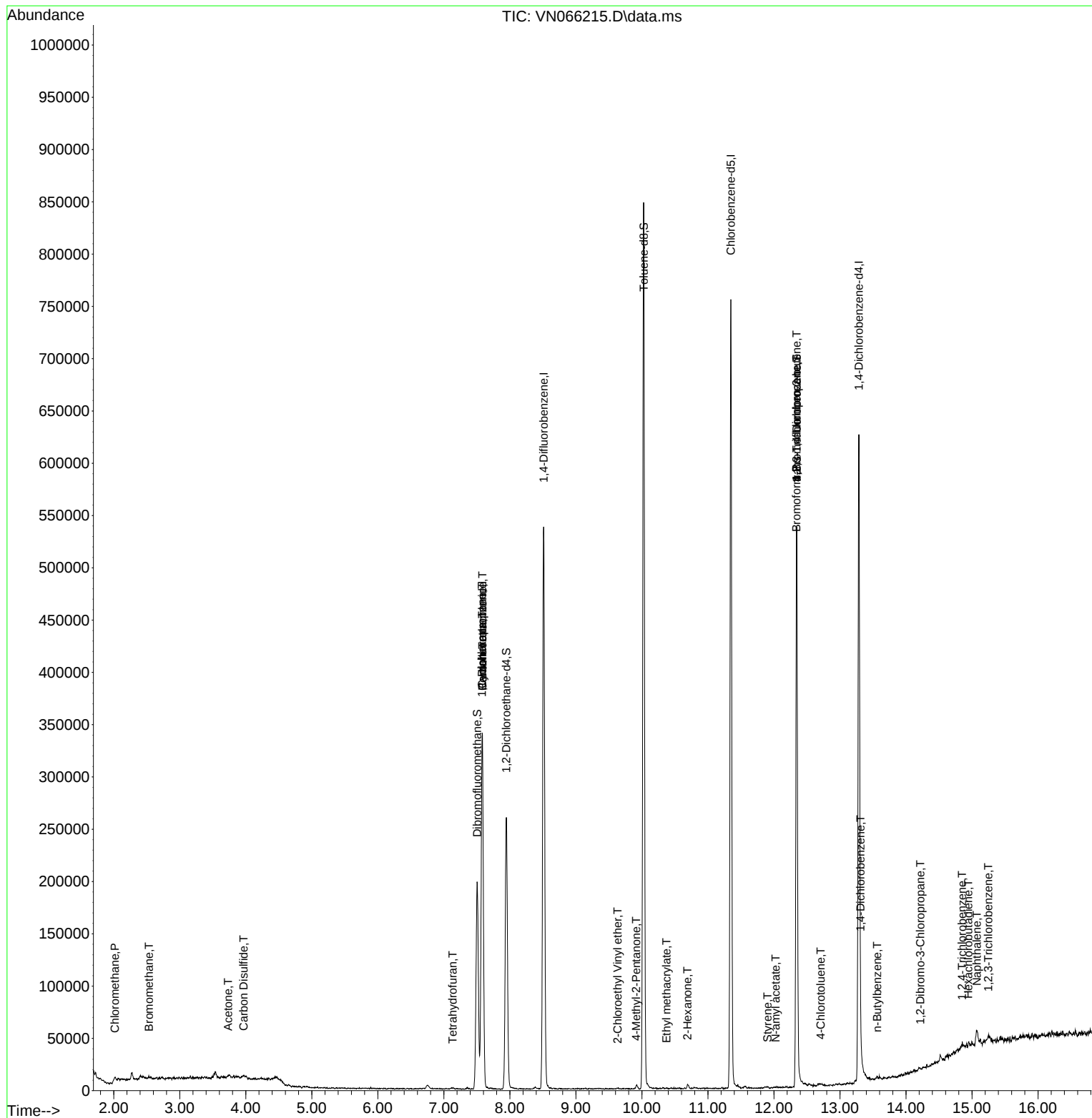
Internal Standards						
1) Pentafluorobenzene	7.584	168	278323	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.512	114	456120	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.347	117	418575	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.286	152	177339	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.946	65	223685	55.78	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 111.56%			
35) Dibromofluoromethane	7.504	113	150297	51.65	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 103.30%			
50) Toluene-d8	10.028	98	562641	50.01	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 100.02%			
62) 4-Bromofluorobenzene	12.345	95	184010	45.37	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 90.74%			
Target Compounds					Qvalue	
3) Chloromethane	2.017	50	2567	0.27	ug/l #	84
5) Bromomethane	2.531	94	918	0.41	ug/l #	64
13) Acrolein	3.532	56	6168	Below Cal		97
16) Acetone	3.733	43	1526	0.79	ug/l	98
17) Carbon Disulfide	3.969	76	3593	0.49	ug/l #	83
29) Tetrahydrofuran	7.134	42	1066	0.52	ug/l #	47
31) Cyclohexane	7.582	56	5929	0.99	ug/l #	1
36) 1,1-Dichloropropene	7.579	75	21612	4.68	ug/l #	47
38) Carbon Tetrachloride	7.584	117	26074	6.30	ug/l #	18
51) 4-Methyl-2-Pentanone	9.915	43	2941	0.48	ug/l #	88
56) Ethyl methacrylate	10.374	69	25	2.16	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.633	63	321	46.69	ug/l #	54
59) 2-Hexanone	10.690	43	3976	2.16	ug/l	71
70) Styrene	11.905	104	470	2.20	ug/l #	67
71) Bromoform	12.339	173	658	0.26	ug/l #	1
74) N-amyl acetate	12.028	43	216	2.19	ug/l #	49
76) 1,2,3-Trichloropropane	12.345	75	92975	20.30	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.345	75	92975	60.75	ug/l #	11
82) 4-Chlorotoluene	12.710	91	474	0.52	ug/l	91
88) 1,4-Dichlorobenzene	13.310	146	1416	0.24	ug/l #	24
89) n-Butylbenzene	13.562	91	1952	2.42	ug/l #	73
92) 1,2-Dibromo-3-Chloropr...	14.217	75	619	1.46	ug/l #	8
93) 1,2,4-Trichlorobenzene	14.850	180	2174	0.61	ug/l	84
94) Hexachlorobutadiene	14.944	225	493	0.29	ug/l	74
95) Naphthalene	15.072	128	11415	1.10	ug/l	97
96) 1,2,3-Trichlorobenzene	15.247	180	2032	0.57	ug/l	91

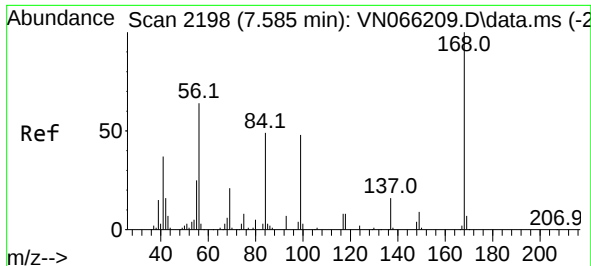
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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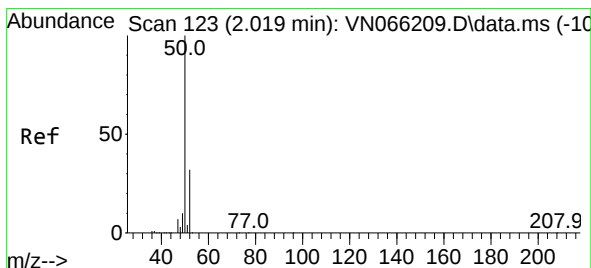
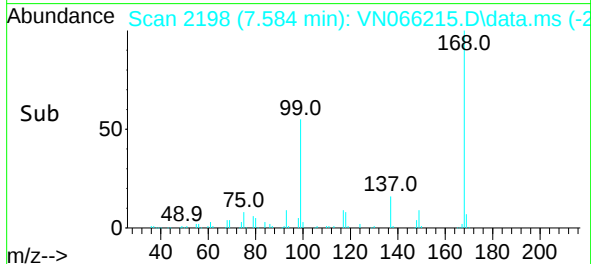
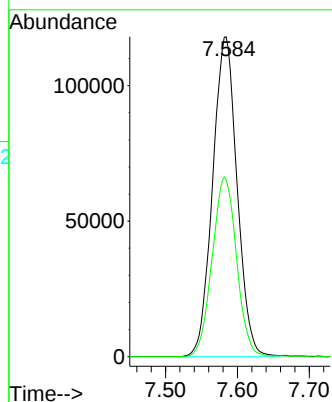
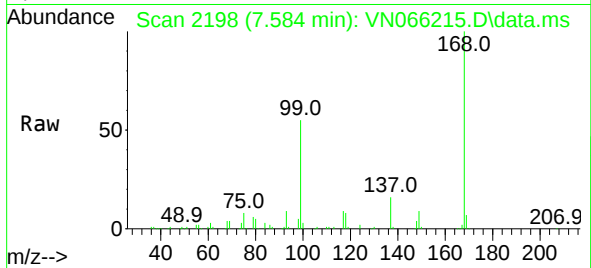




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.584 min Scan# 2198
Delta R.T. -0.001 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

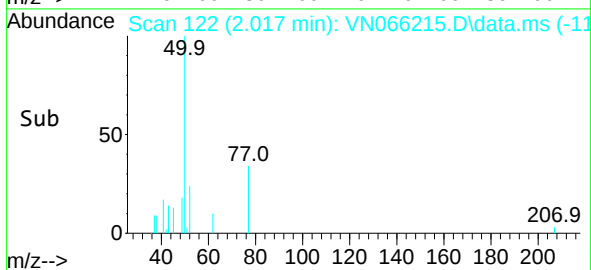
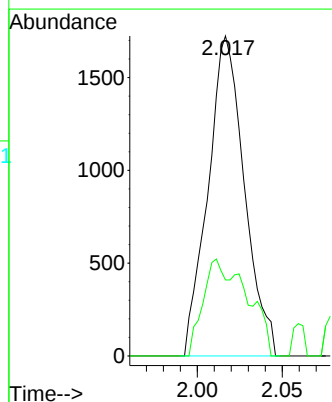
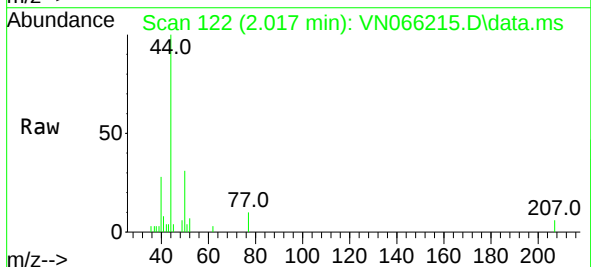
Instrument :
MSVOA_N
ClientSampleId :

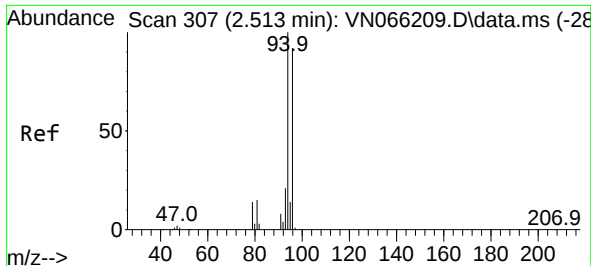
Tgt Ion:168 Resp: 278323
Ion Ratio Lower Upper
168 100
99 55.3 45.4 68.0



#3
Chloromethane
Concen: 0.27 ug/l
RT: 2.017 min Scan# 122
Delta R.T. -0.002 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

Tgt Ion: 50 Resp: 2567
Ion Ratio Lower Upper
50 100
52 23.7 26.2 39.4#

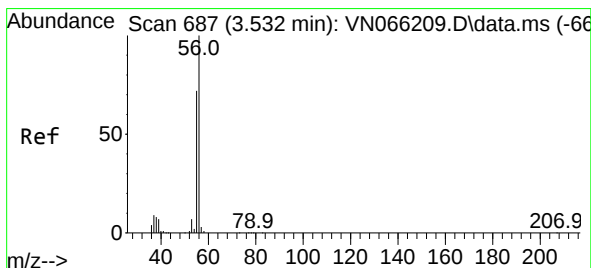
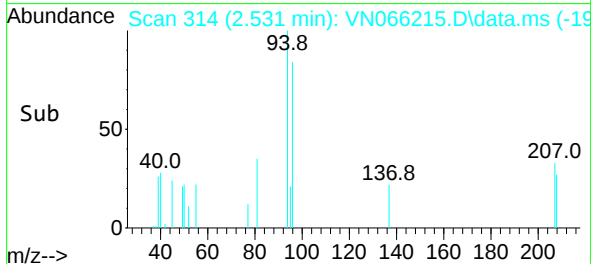
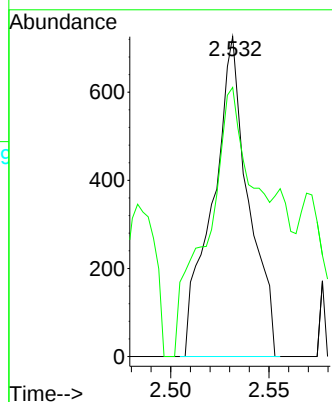
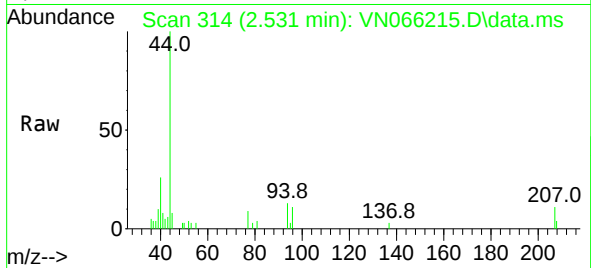




#5
Bromomethane
Concen: 0.41 ug/l
RT: 2.531 min Scan# 314
Delta R.T. 0.018 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

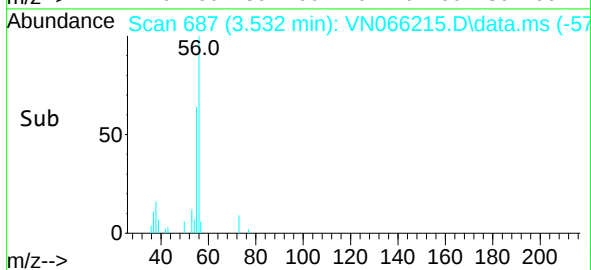
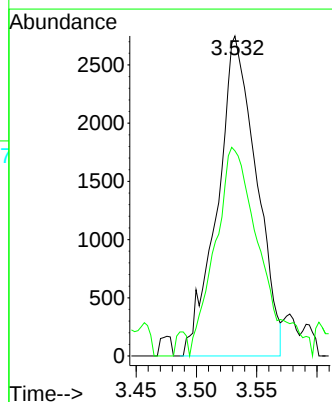
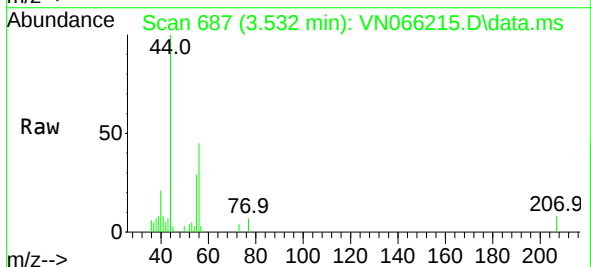
Instrument :
MSVOA_N
ClientSampleId :

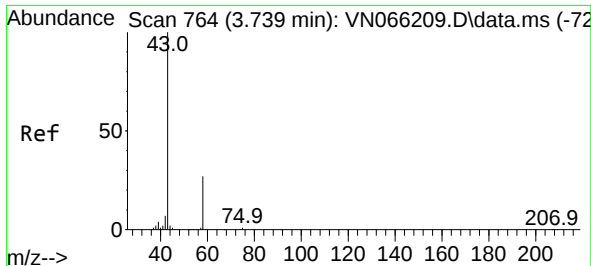
Tgt Ion: 94 Resp: 918
Ion Ratio Lower Upper
94 100
96 60.9 77.3 115.9#



#13
Acrolein
Concen: Below Cal
RT: 3.532 min Scan# 687
Delta R.T. -0.000 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

Tgt Ion: 56 Resp: 6168
Ion Ratio Lower Upper
56 100
55 75.3 58.0 87.0

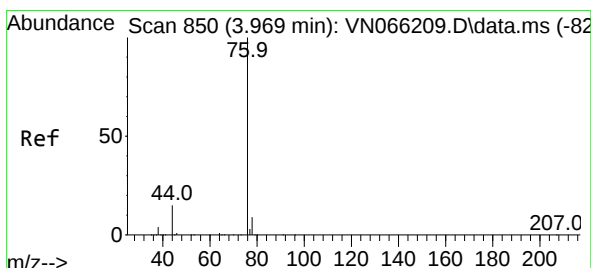
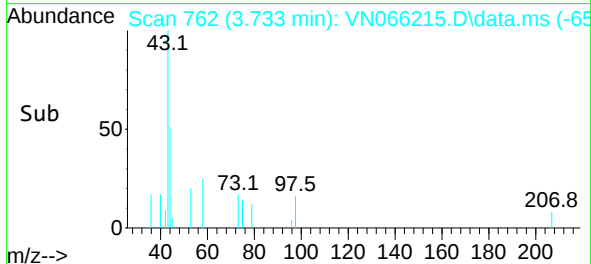
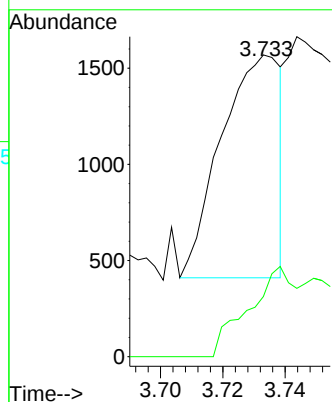
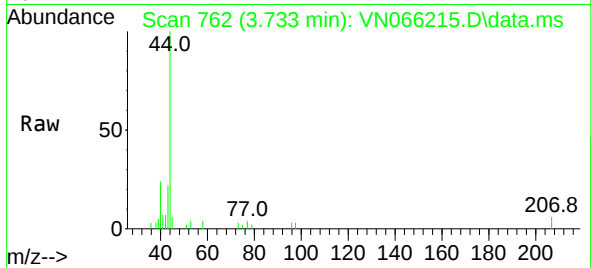




#16
Acetone
Concen: 0.79 ug/l
RT: 3.733 min Scan# 762
Delta R.T. -0.006 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

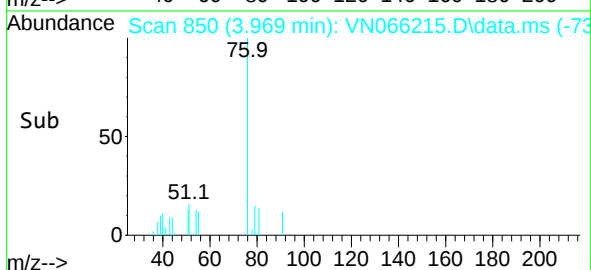
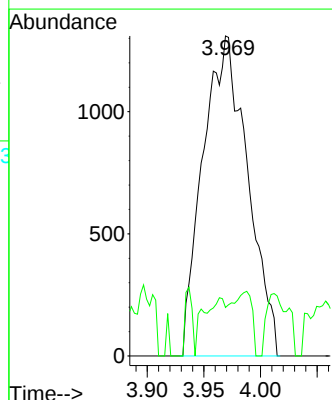
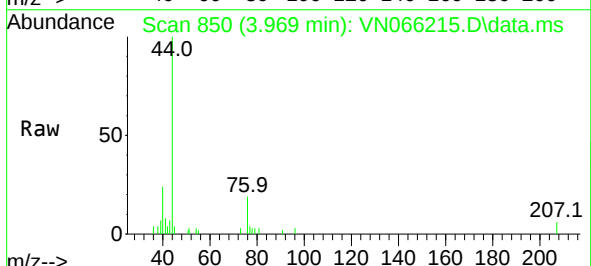
Instrument :
MSVOA_N
ClientSampleId :

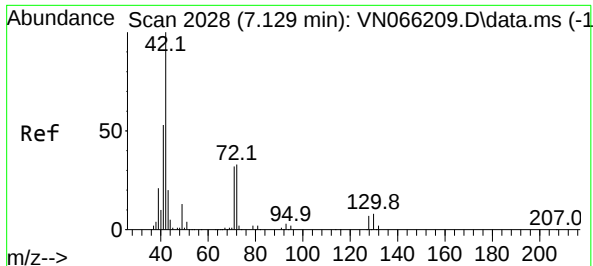
Tgt Ion: 43 Resp: 1526
Ion Ratio Lower Upper
43 100
58 27.0 22.3 33.5



#17
Carbon Disulfide
Concen: 0.49 ug/l
RT: 3.969 min Scan# 850
Delta R.T. 0.000 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

Tgt Ion: 76 Resp: 3593
Ion Ratio Lower Upper
76 100
78 15.2 7.3 10.9#





#29

Tetrahydrofuran

Concen: 0.52 ug/l

RT: 7.134 min Scan# 2030

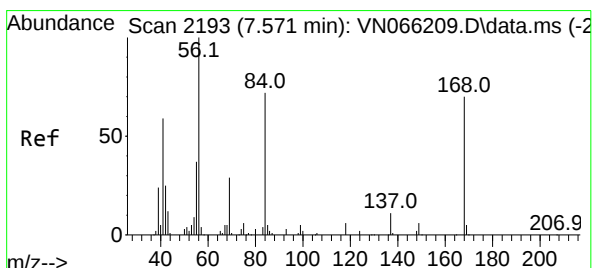
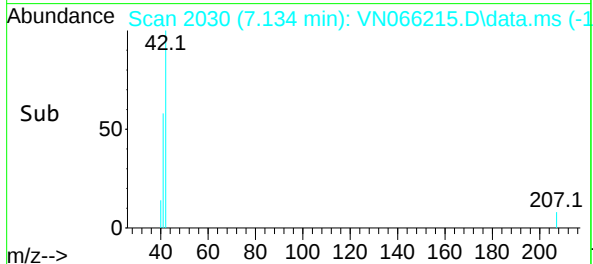
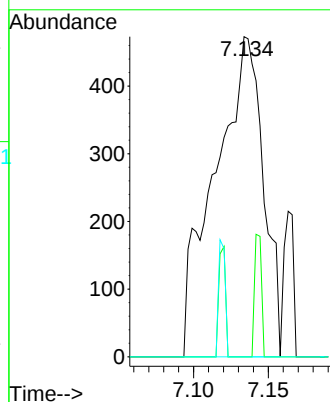
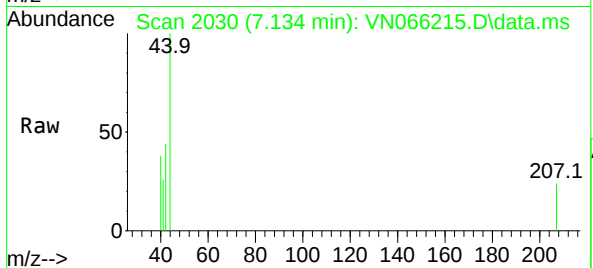
Delta R.T. 0.005 min

Lab File: VN066215.D

Acq: 16 Mar 2021 16:58

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion:	42	Resp:	1066
Ion Ratio	Lower	Upper	
42	100		
72	5.4	26.2	39.4#
71	0.0	25.4	38.2#



#31

Cyclohexane

Concen: 0.99 ug/l

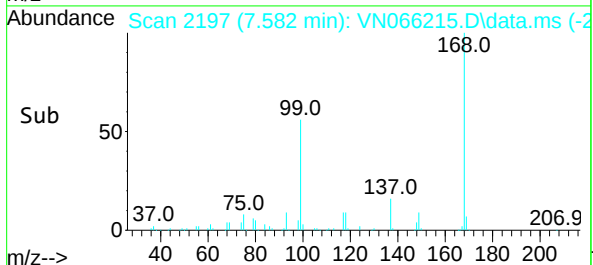
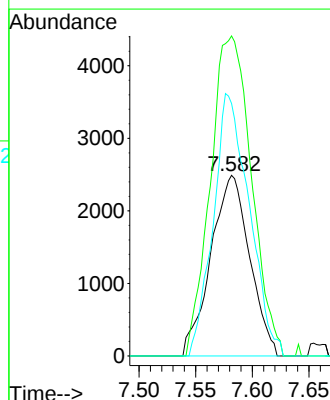
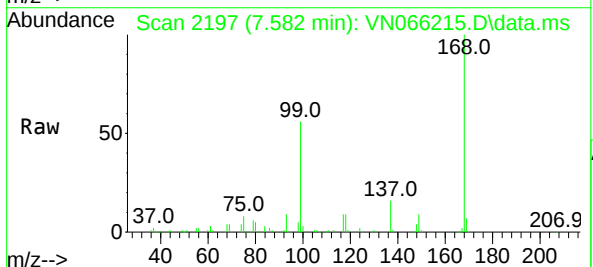
RT: 7.582 min Scan# 2197

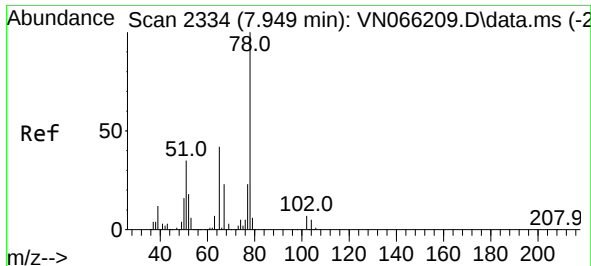
Delta R.T. 0.011 min

Lab File: VN066215.D

Acq: 16 Mar 2021 16:58

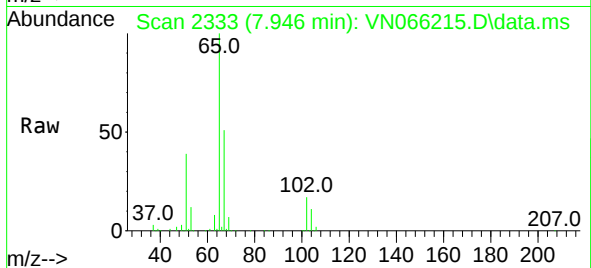
Tgt Ion:	56	Resp:	5929
Ion Ratio	Lower	Upper	
56	100		
69	177.1	23.4	35.0#
84	139.8	57.8	86.6#



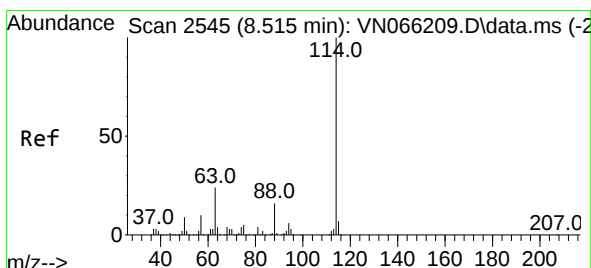
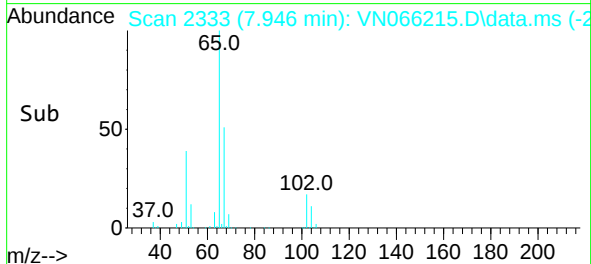
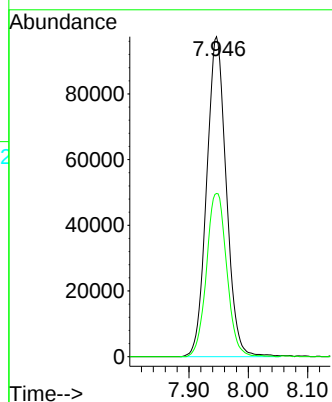


#33
 1,2-Dichloroethane-d4
 Concen: 55.78 ug/l
 RT: 7.946 min Scan# 2333
 Delta R.T. -0.003 min
 Lab File: VN066215.D
 Acq: 16 Mar 2021 16:58

Instrument :
 MSVOA_N
 ClientSampleId :

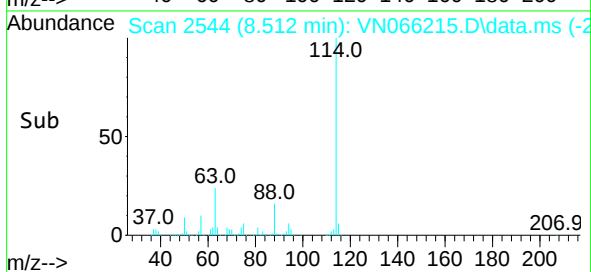
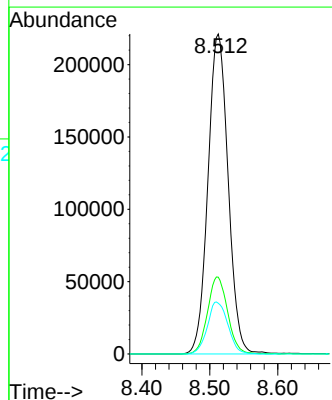
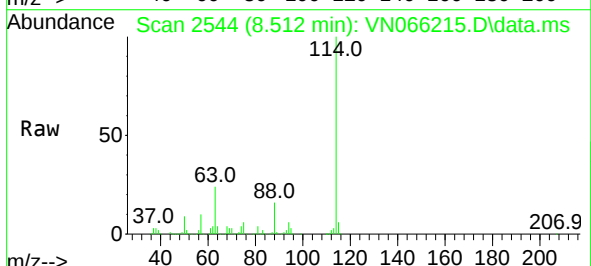


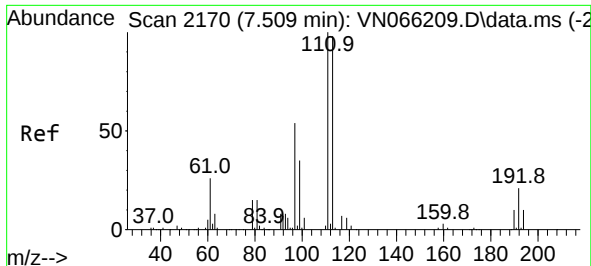
Tgt Ion: 65 Resp: 223685
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.512 min Scan# 2544
 Delta R.T. -0.003 min
 Lab File: VN066215.D
 Acq: 16 Mar 2021 16:58

Tgt Ion: 114 Resp: 456120
 Ion Ratio Lower Upper
 114 100
 63 24.0 0.0 49.2
 88 15.9 0.0 33.8

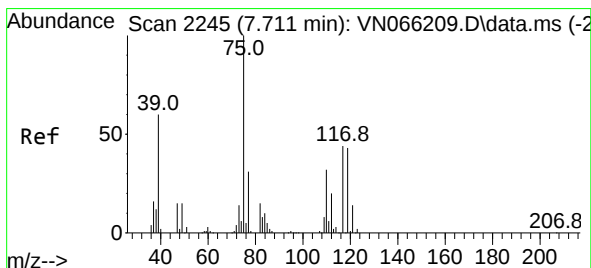
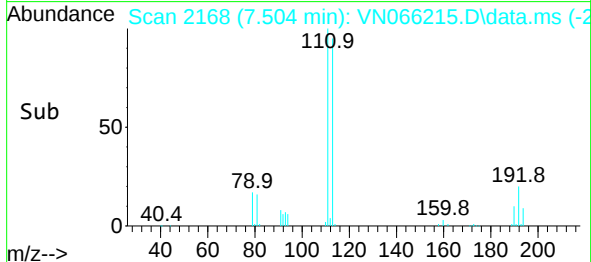
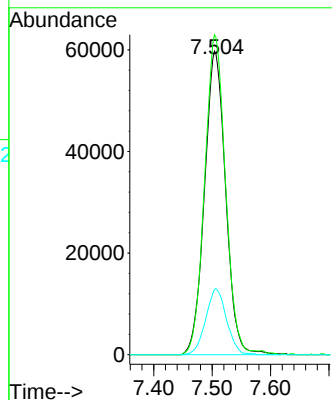
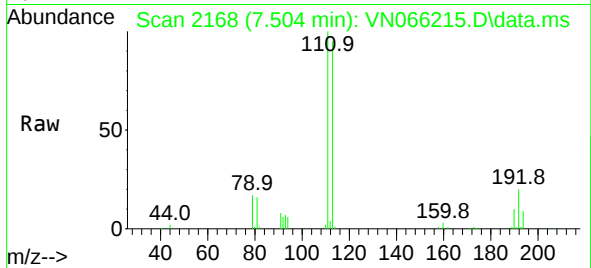




#35
Dibromofluoromethane
Concen: 51.65 ug/l
RT: 7.504 min Scan# 2168
Delta R.T. -0.005 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

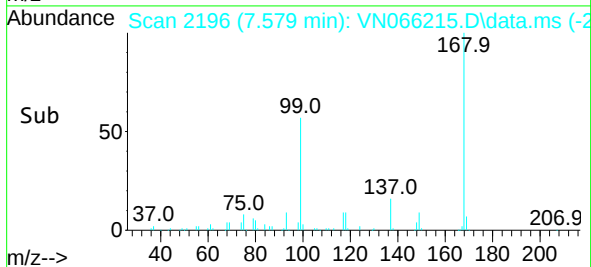
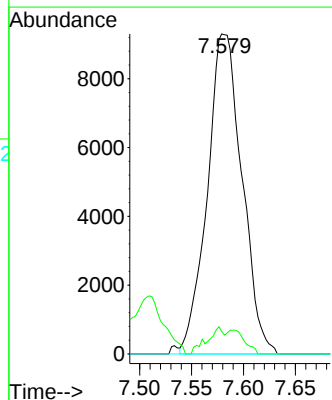
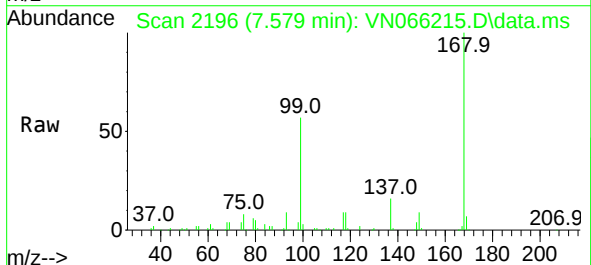
Instrument :
MSVOA_N
ClientSampleId :

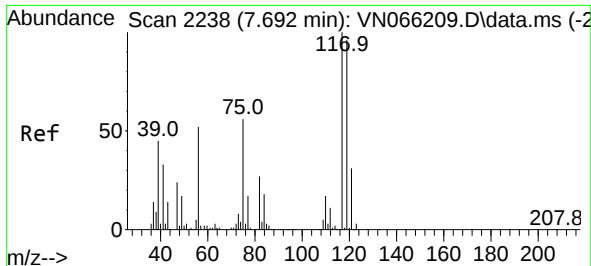
Tgt Ion:113 Resp: 150297
Ion Ratio Lower Upper
113 100
111 103.4 84.0 126.0
192 21.4 16.7 25.1



#36
1,1-Dichloropropene
Concen: 4.68 ug/l
RT: 7.579 min Scan# 2196
Delta R.T. -0.132 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

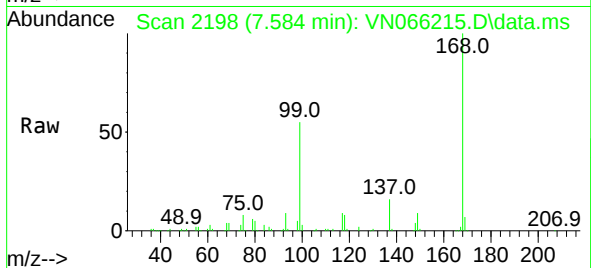
Tgt Ion: 75 Resp: 21612
Ion Ratio Lower Upper
75 100
110 4.0 16.0 48.0#
77 0.0 24.9 37.3#



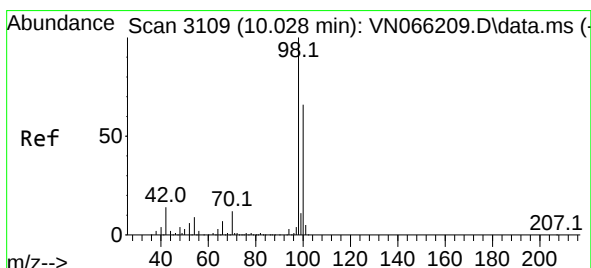
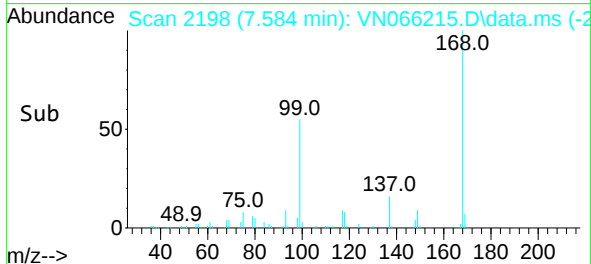
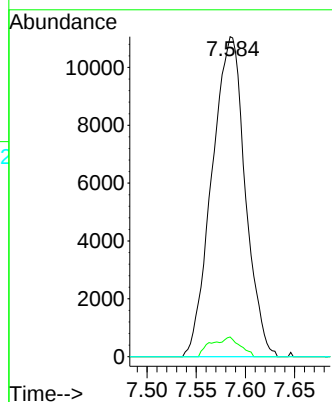


#38
Carbon Tetrachloride
Concen: 6.30 ug/l
RT: 7.584 min Scan# 2198
Delta R.T. -0.108 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

Instrument :
MSVOA_N
ClientSampled :

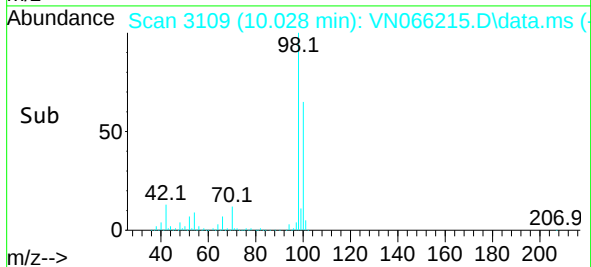
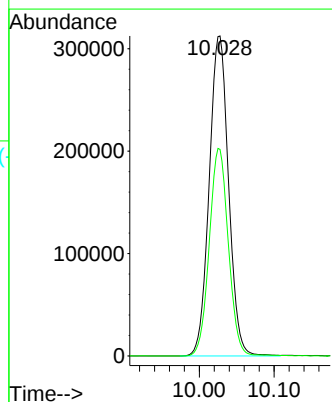
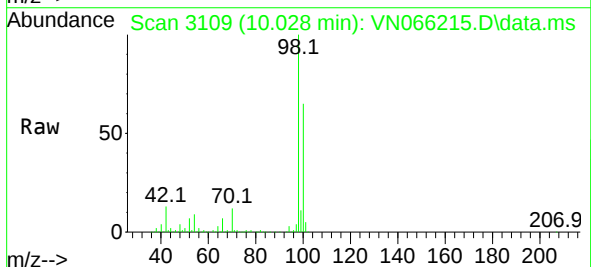


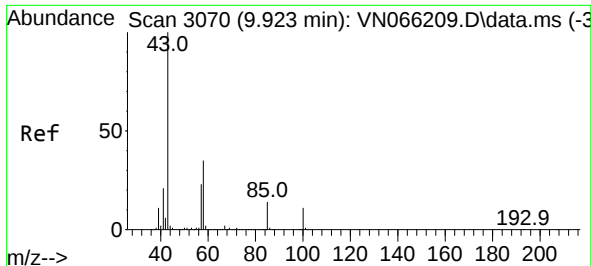
Tgt Ion:117 Resp: 26074
Ion Ratio Lower Upper
117 100
119 6.1 74.6 111.8#
121 0.0 23.9 35.9#



#50
Toluene-d8
Concen: 50.01 ug/l
RT: 10.028 min Scan# 3109
Delta R.T. -0.000 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

Tgt Ion: 98 Resp: 562641
Ion Ratio Lower Upper
98 100
100 63.7 51.0 76.6

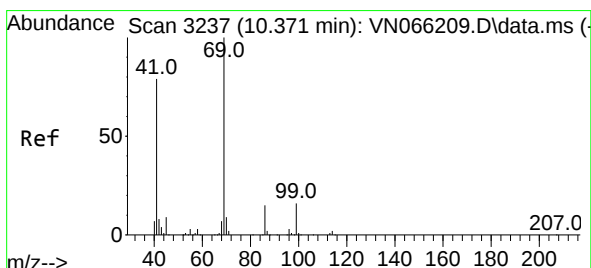
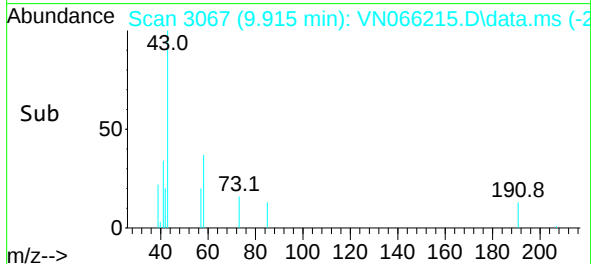
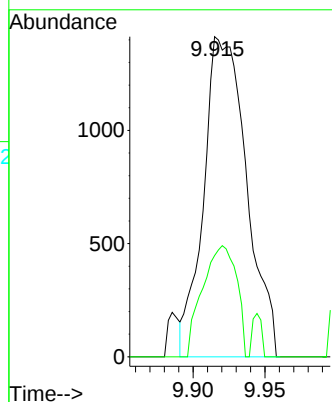
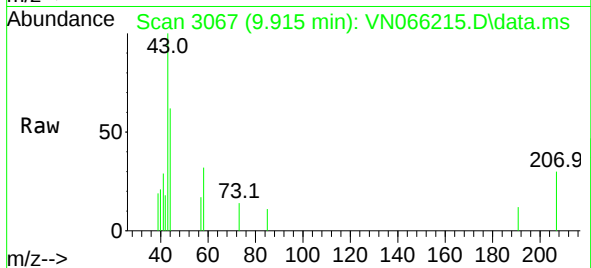




#51
4-Methyl-2-Pentanone
Concen: 0.48 ug/l
RT: 9.915 min Scan# 3067
Delta R.T. -0.008 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

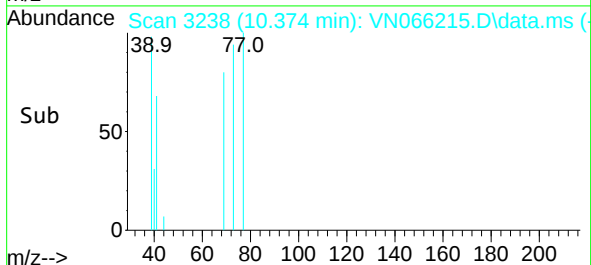
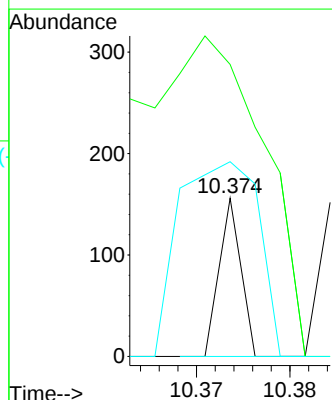
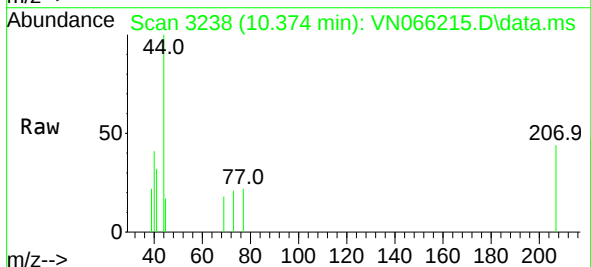
Instrument :
MSVOA_N
ClientSampleId :

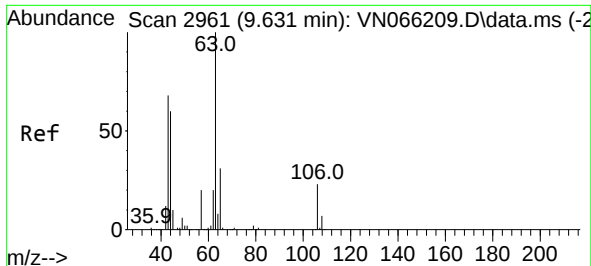
Tgt Ion: 43 Resp: 2941
Ion Ratio Lower Upper
43 100
58 27.4 27.5 41.3#



#56
Ethyl methacrylate
Concen: 2.16 ug/l
RT: 10.374 min Scan# 3238
Delta R.T. 0.003 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

Tgt Ion: 69 Resp: 25
Ion Ratio Lower Upper
69 100
41 1700.0 66.2 99.4#
39 456.0 31.5 47.3#

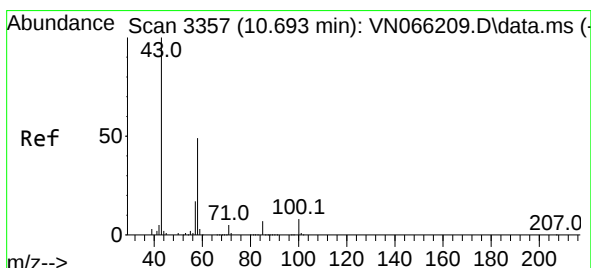
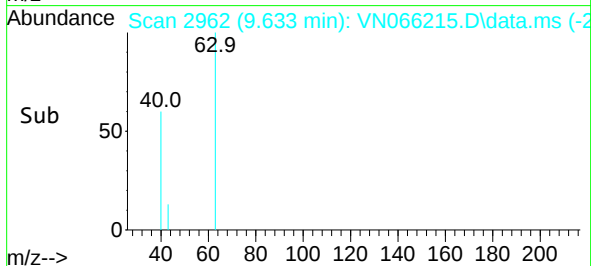
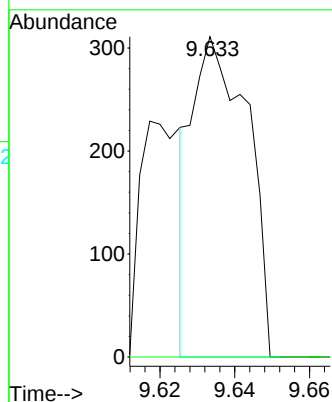
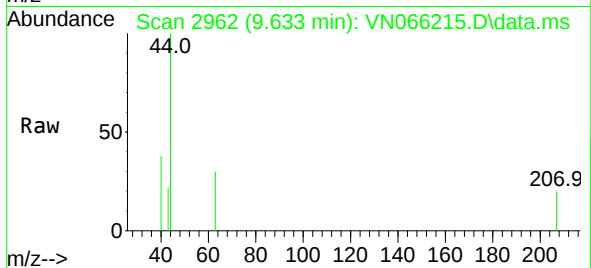




#58
2-Chloroethyl Vinyl ether
Concen: 46.69 ug/l
RT: 9.633 min Scan# 2962
Delta R.T. 0.002 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

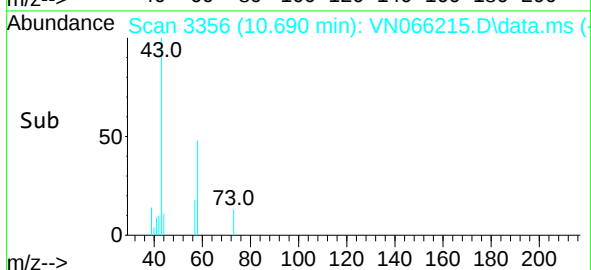
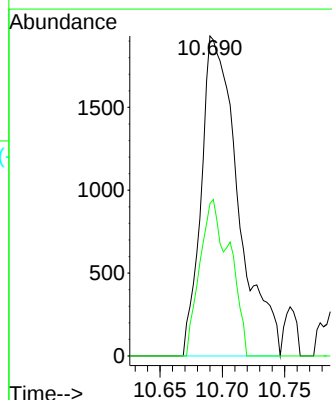
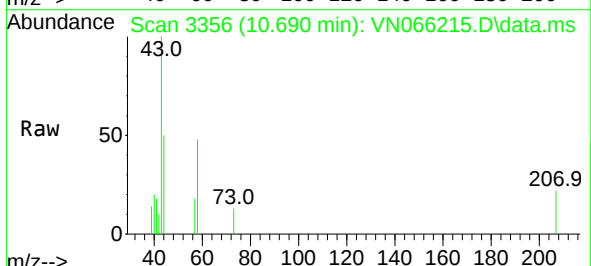
Instrument :
MSVOA_N
ClientSampled :

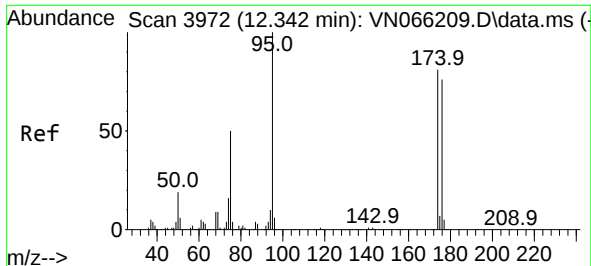
Tgt Ion: 63 Resp: 321
Ion Ratio Lower Upper
63 100
106 0.0 17.6 26.4#



#59
2-Hexanone
Concen: 2.16 ug/l
RT: 10.690 min Scan# 3356
Delta R.T. -0.003 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

Tgt Ion: 43 Resp: 3976
Ion Ratio Lower Upper
43 100
58 28.1 23.8 71.5

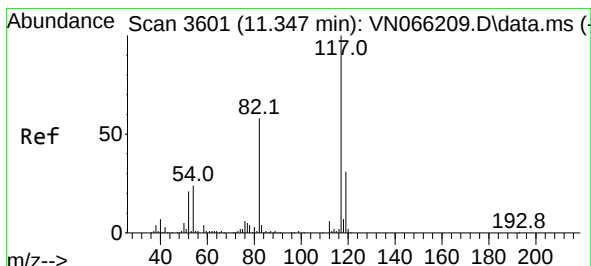
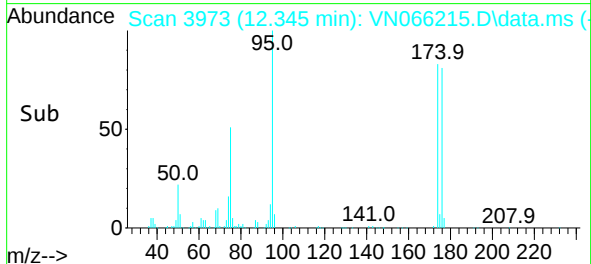
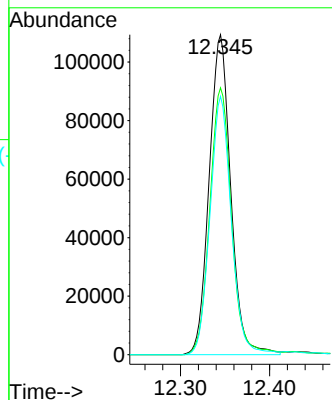
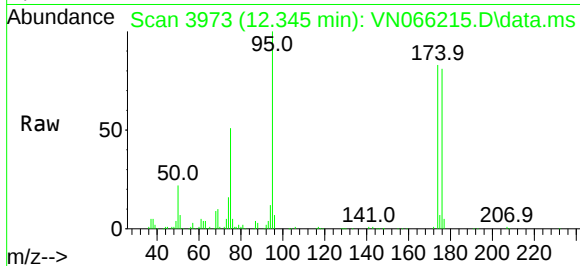




#62
4-Bromofluorobenzene
Concen: 45.37 ug/l
RT: 12.345 min Scan# 3973
Delta R.T. 0.003 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

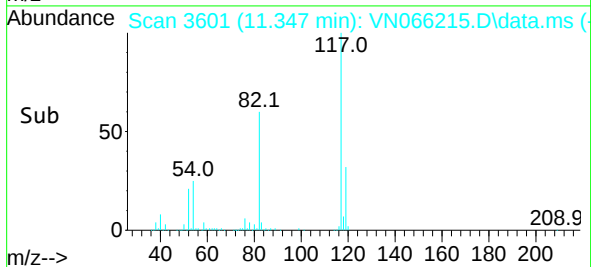
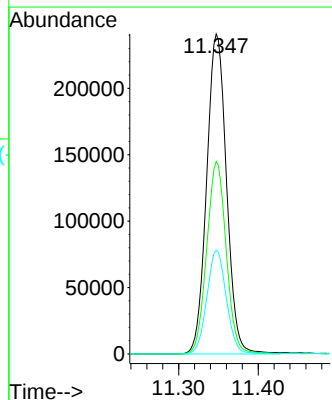
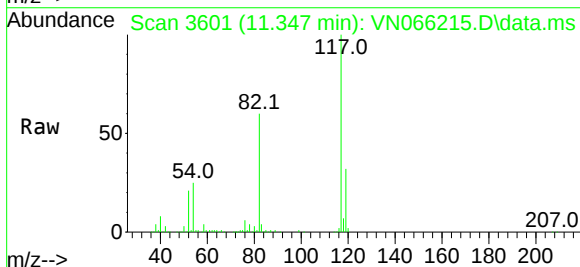
Instrument :
MSVOA_N
ClientSampleId :

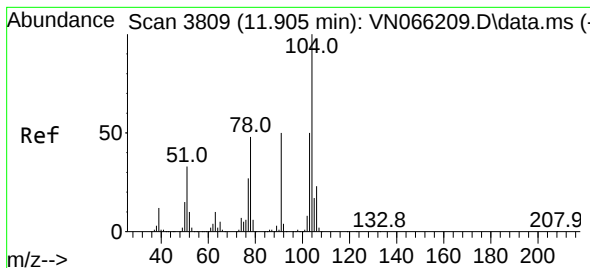
Tgt Ion: 95 Resp: 184010
Ion Ratio Lower Upper
95 100
174 84.3 0.0 162.4
176 79.9 0.0 156.2



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.347 min Scan# 3601
Delta R.T. 0.000 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

Tgt Ion: 117 Resp: 418575
Ion Ratio Lower Upper
117 100
82 60.1 49.0 73.6
119 32.4 25.7 38.5





#70

Styrene

Concen: 2.20 ug/l

RT: 11.905 min Scan# 3809

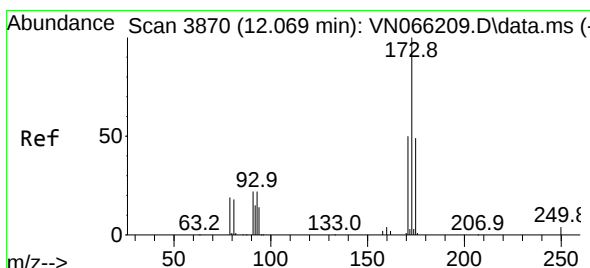
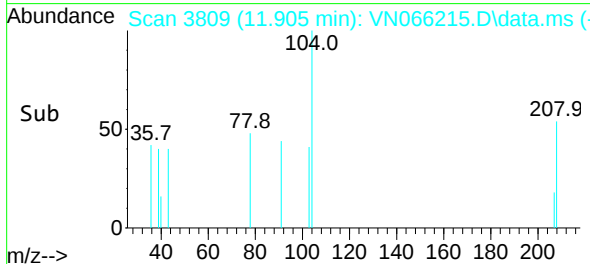
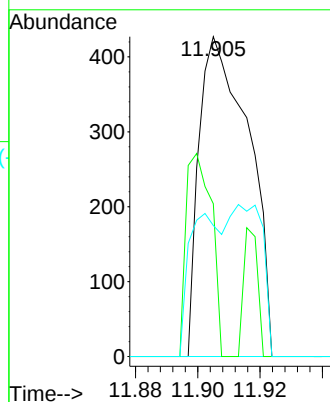
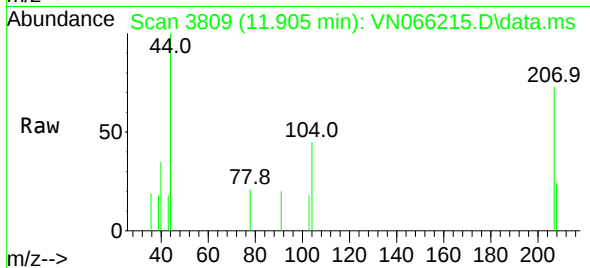
Delta R.T. -0.000 min

Lab File: VN066215.D

Acq: 16 Mar 2021 16:58

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion:104	Resp:	470
Ion Ratio	Lower	Upper
104	100	
78	32.8	43.8 65.6#
103	29.6	43.7 65.5#



#71

Bromoform

Concen: 0.26 ug/l

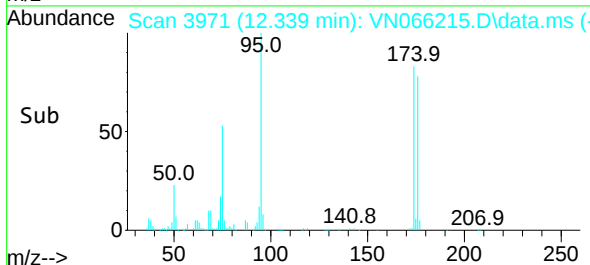
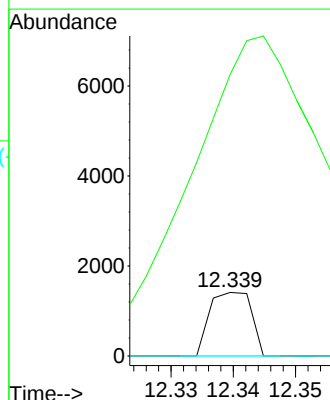
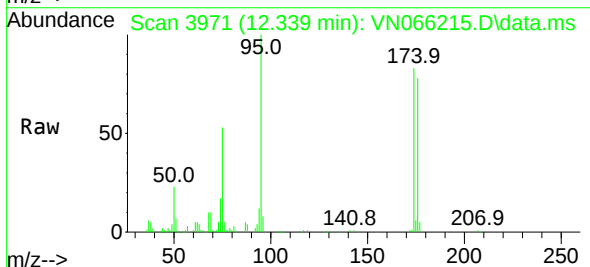
RT: 12.339 min Scan# 3971

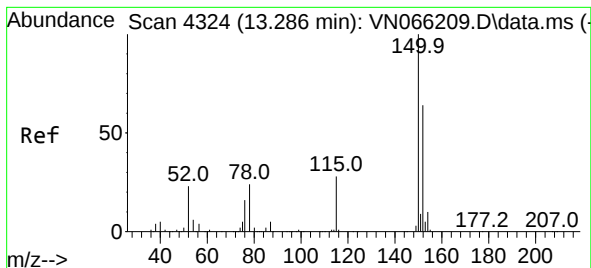
Delta R.T. 0.270 min

Lab File: VN066215.D

Acq: 16 Mar 2021 16:58

Tgt Ion:173	Resp:	658
Ion Ratio	Lower	Upper
173	100	
175	1579.0	23.9 71.8#
254	0.0	0.0 0.0

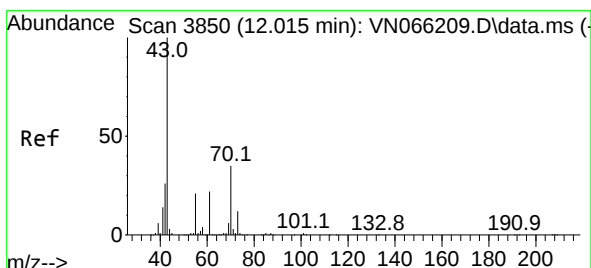
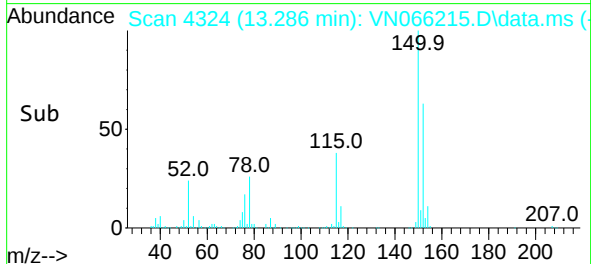
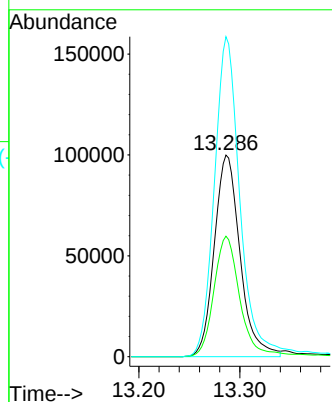
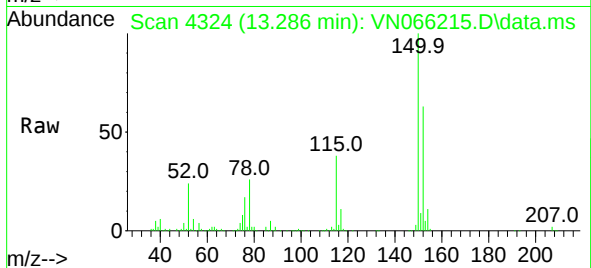




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.286 min Scan# 4324
Delta R.T. 0.000 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

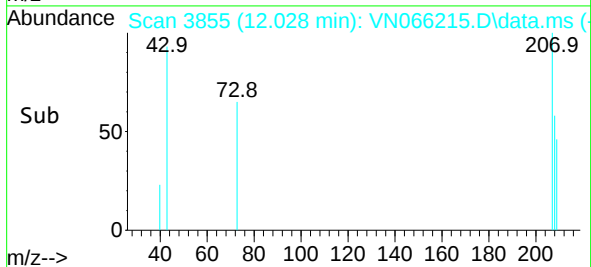
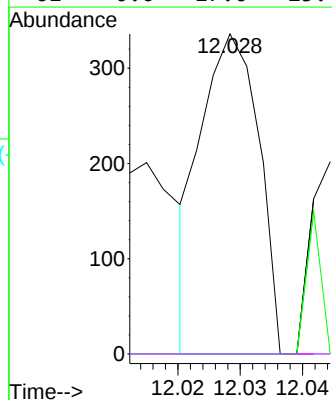
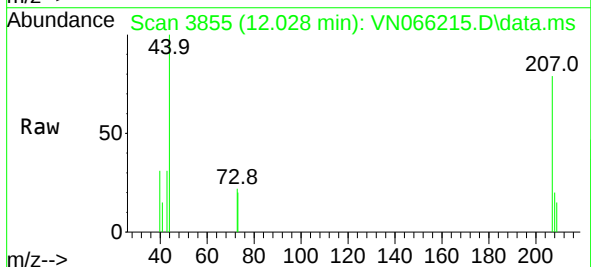
Instrument :
MSVOA_N
ClientSampleId :

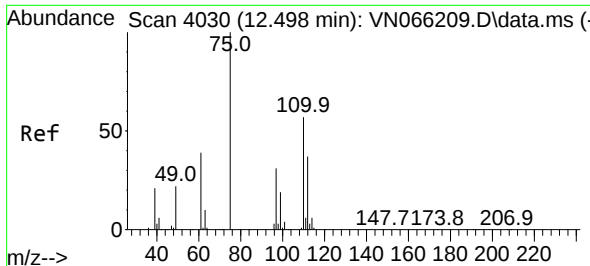
Tgt Ion:152 Resp: 177339
Ion Ratio Lower Upper
152 100
115 60.0 29.4 88.3
150 158.0 0.0 352.2



#74
N-ethyl acetate
Concen: 2.19 ug/l
RT: 12.028 min Scan# 3855
Delta R.T. 0.013 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

Tgt Ion: 43 Resp: 216
Ion Ratio Lower Upper
43 100
70 0.0 26.2 39.4#
55 0.0 17.2 25.8#
61 0.0 17.0 25.4#

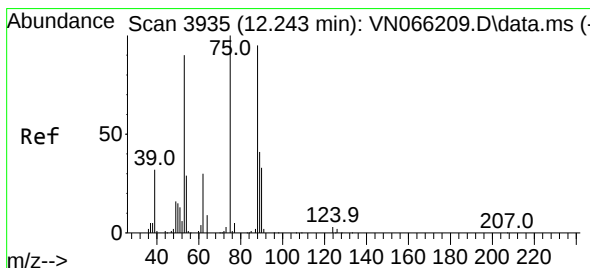
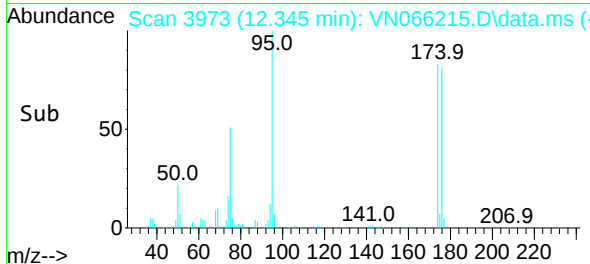
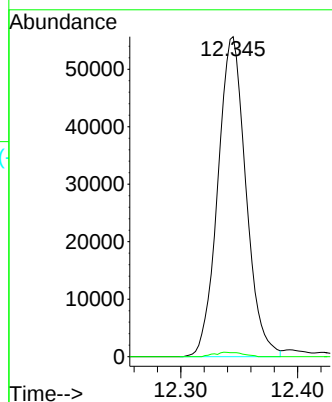
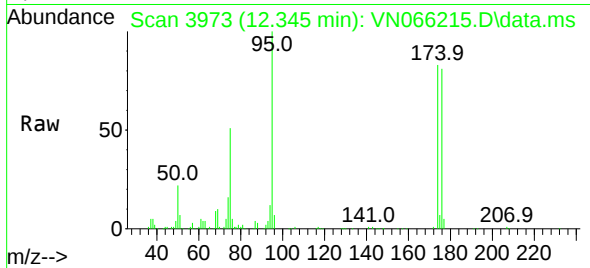




#76
1,2,3-Trichloropropane
Concen: 20.30 ug/l
RT: 12.345 min Scan# 3973
Delta R.T. -0.153 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

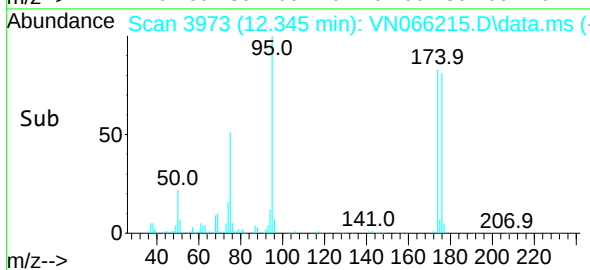
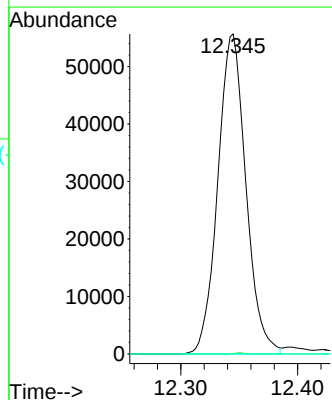
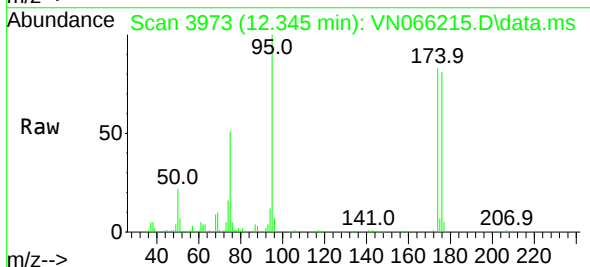
Instrument :
MSVOA_N
ClientSampleId :

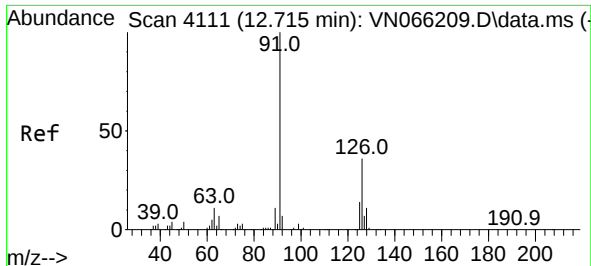
Tgt Ion: 75 Resp: 92975
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 60.75 ug/l
RT: 12.345 min Scan# 3973
Delta R.T. 0.102 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

Tgt Ion: 75 Resp: 92975
Ion Ratio Lower Upper
75 100
53 0.1 77.8 116.6#
89 0.0 33.7 50.5#

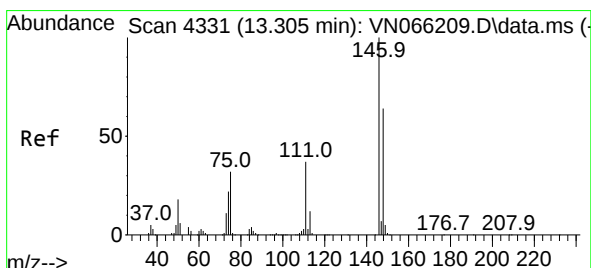
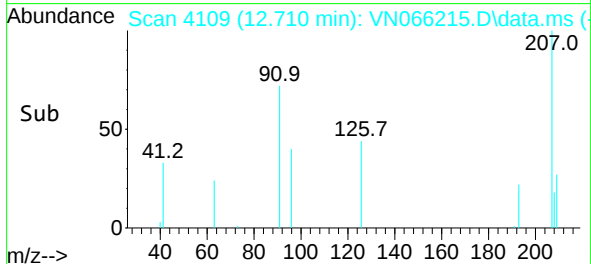
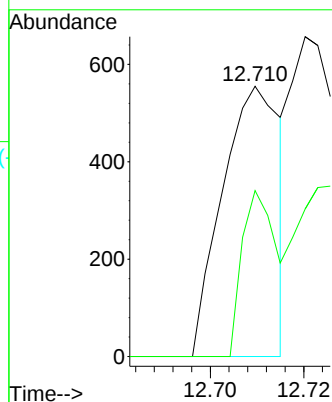
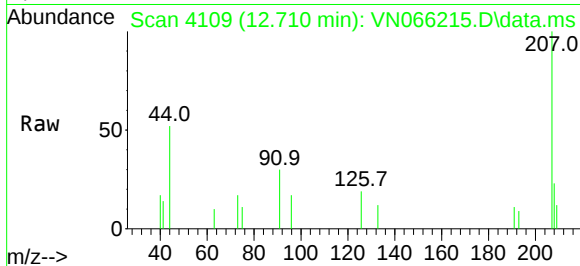




#82
4-Chlorotoluene
Concen: 0.52 ug/l
RT: 12.710 min Scan# 4109
Delta R.T. -0.005 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

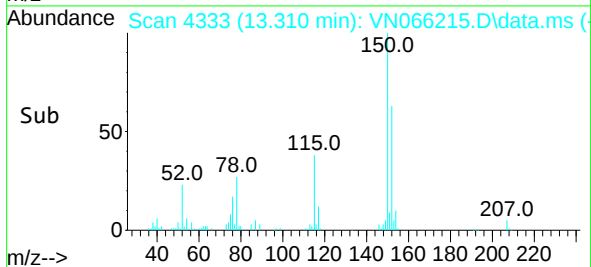
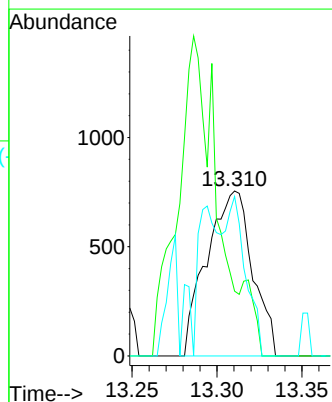
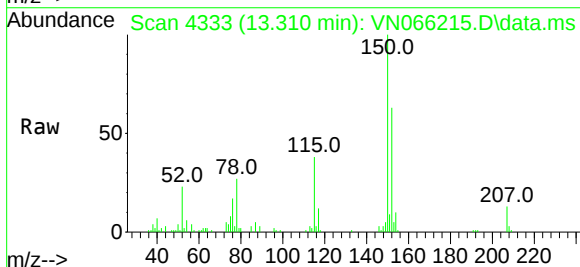
Instrument :
MSVOA_N
ClientSampleId :

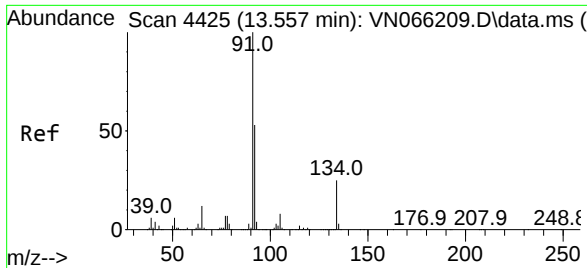
Tgt Ion: 91 Resp: 474
Ion Ratio Lower Upper
91 100
126 36.3 15.7 47.1



#88
1,4-Dichlorobenzene
Concen: 0.24 ug/l
RT: 13.310 min Scan# 4333
Delta R.T. 0.005 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

Tgt Ion:146 Resp: 1416
Ion Ratio Lower Upper
146 100
111 0.0 19.9 59.7#
148 0.0 33.2 99.6#

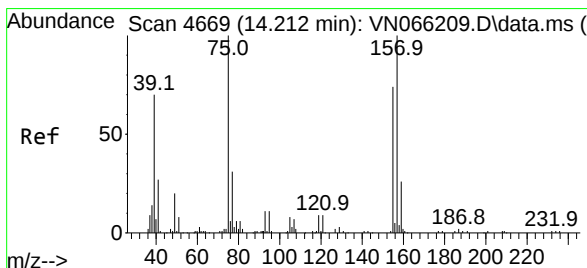
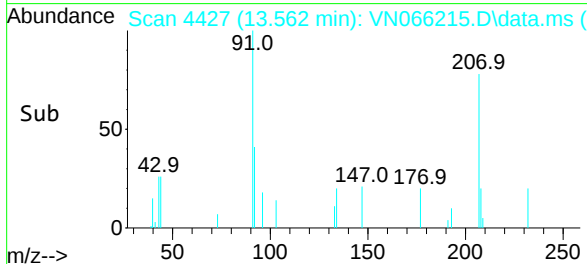
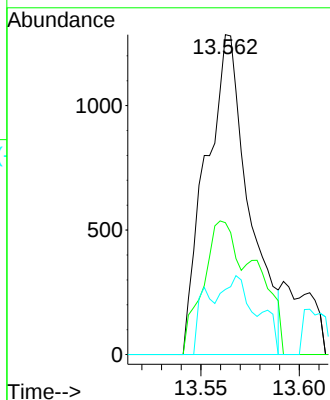
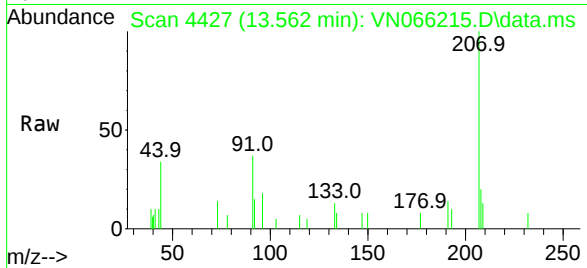




#89
n-Butylbenzene
Concen: 2.42 ug/l
RT: 13.562 min Scan# 4427
Delta R.T. 0.005 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

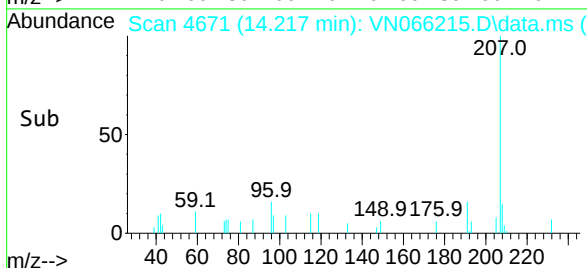
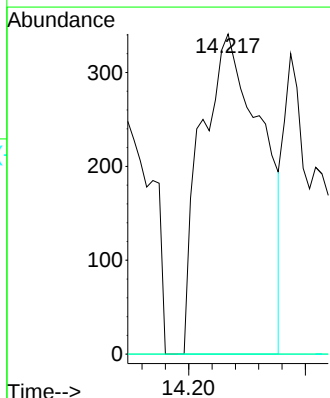
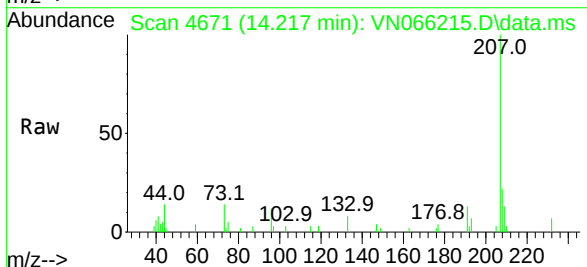
Instrument :
MSVOA_N
ClientSampleId :

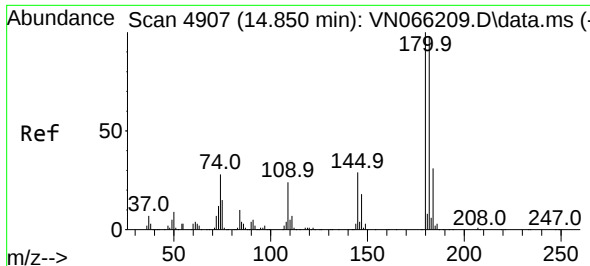
Tgt Ion: 91 Resp: 1952
Ion Ratio Lower Upper
91 100
92 33.3 25.7 77.0
134 8.9 11.8 35.4#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.46 ug/l
RT: 14.217 min Scan# 4671
Delta R.T. 0.005 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

Tgt Ion: 75 Resp: 619
Ion Ratio Lower Upper
75 100
155 0.0 36.5 109.7#
157 0.0 46.3 138.8#

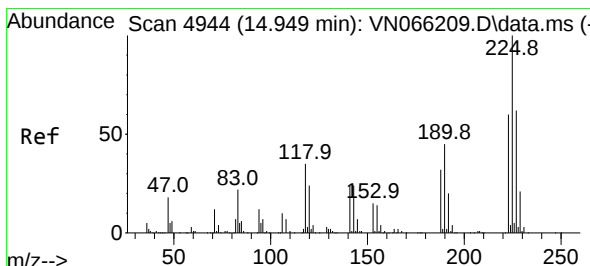
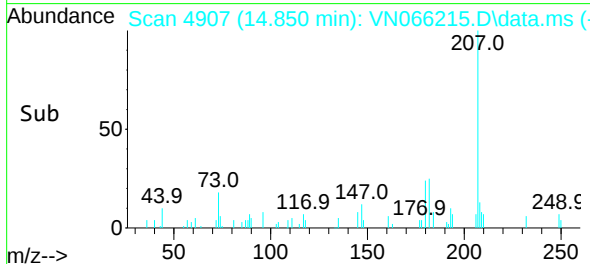
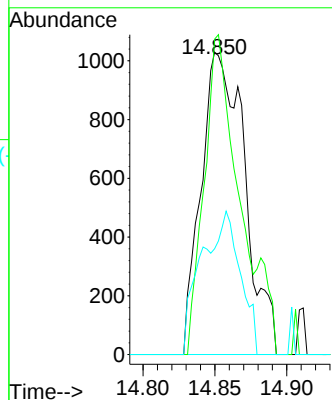
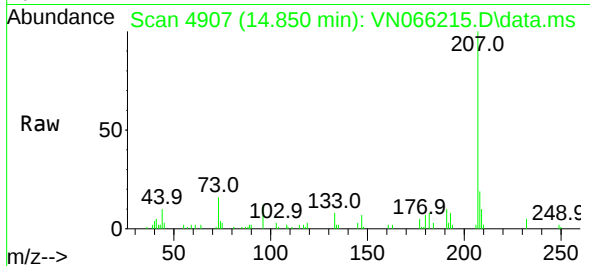




#93
1,2,4-Trichlorobenzene
Concen: 0.61 ug/l
RT: 14.850 min Scan# 4907
Delta R.T. -0.000 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

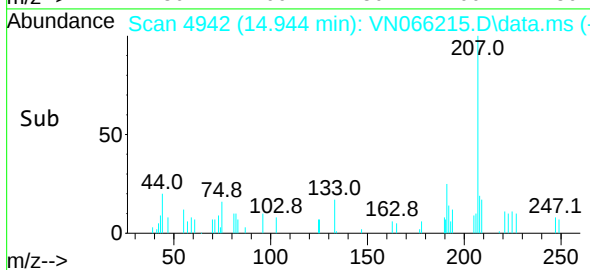
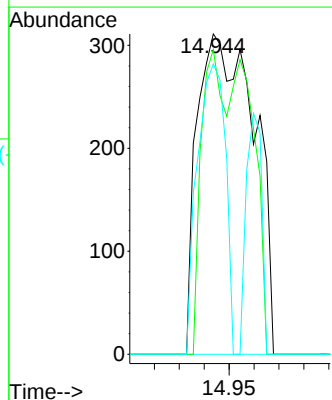
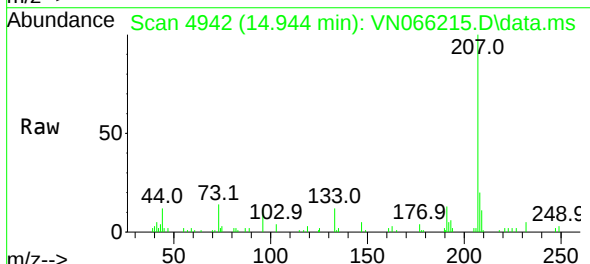
Instrument :
MSVOA_N
ClientSampleId :

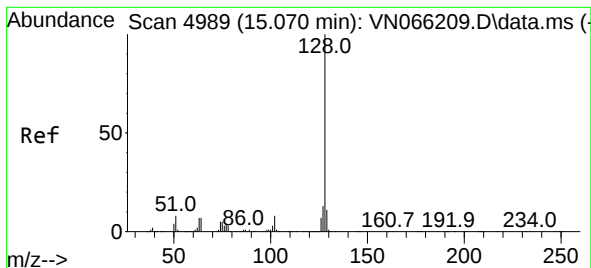
Tgt Ion	Ratio	Lower	Upper
180	100		
182	77.2	47.4	142.2
145	23.9	14.1	42.3



#94
Hexachlorobutadiene
Concen: 0.29 ug/l
RT: 14.944 min Scan# 4942
Delta R.T. -0.005 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

Tgt Ion	Ratio	Lower	Upper
225	100		
223	40.8	31.3	93.8
227	44.6	31.9	95.7

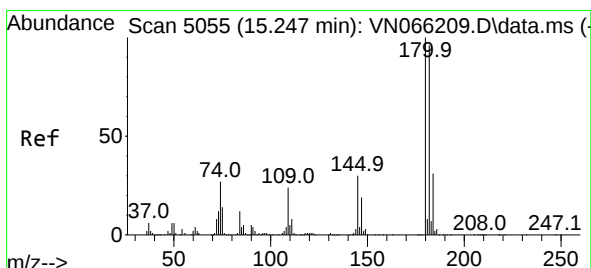
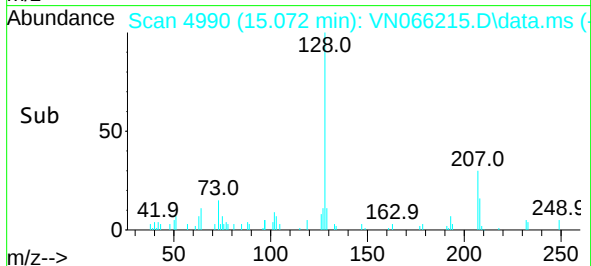
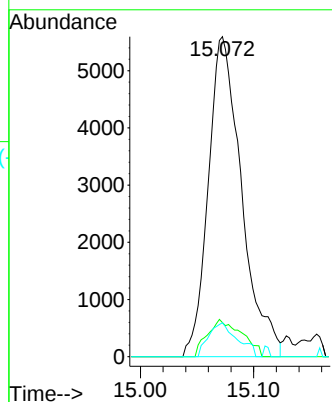
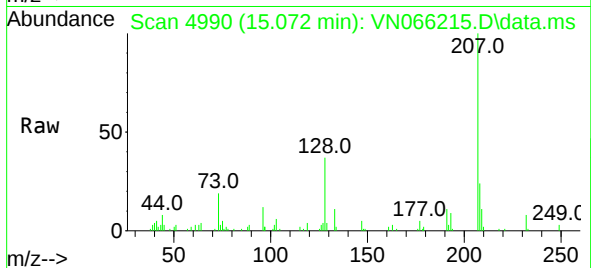




#95
Naphthalene
Concen: 1.10 ug/l
RT: 15.072 min Scan# 4990
Delta R.T. 0.002 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion:128	Resp:	11415
Ion Ratio	Lower	Upper
128	100	
127	12.0	10.3 15.5
129	9.1	8.4 12.6



#96
1,2,3-Trichlorobenzene
Concen: 0.57 ug/l
RT: 15.247 min Scan# 5055
Delta R.T. -0.000 min
Lab File: VN066215.D
Acq: 16 Mar 2021 16:58

Tgt Ion:180	Resp:	2032
Ion Ratio	Lower	Upper
180	100	
182	99.3	47.9 143.8
145	45.3	15.6 46.8

