

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021821\
 Data File : VN065936.D
 Acq On : 18 Feb 2021 13:21
 Operator : JC/MD
 Sample : M1448-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 19 00:15:25 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021721W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 17 15:48:13 2021
 Response via : Initial Calibration

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

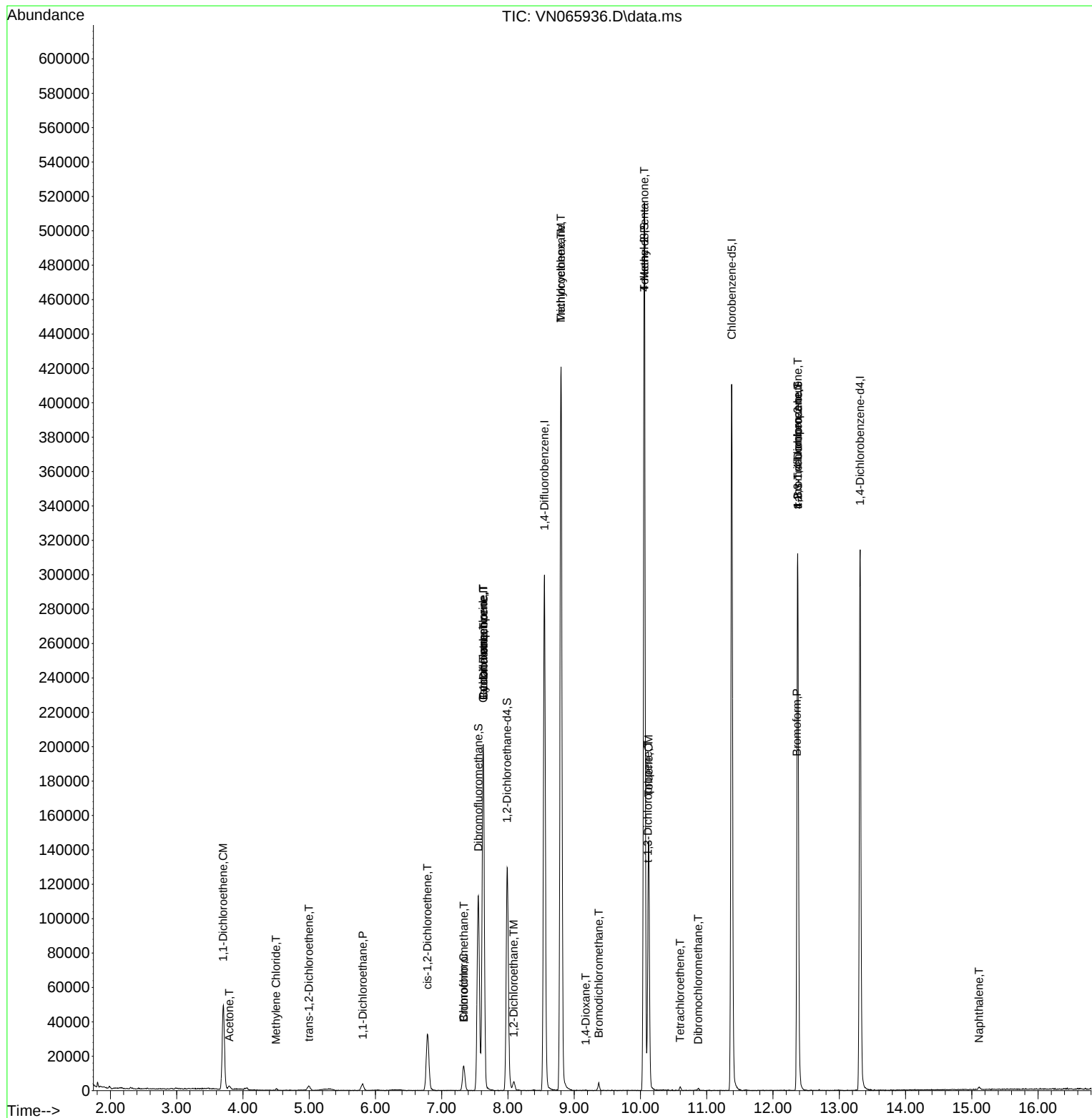
Internal Standards						
1) Pentafluorobenzene	7.627	168	164460	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.550	114	276585	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.376	117	249809	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.315	152	90928	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.987	65	117963	51.29	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 102.58%			
35) Dibromofluoromethane	7.553	113	90763	53.02	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 106.04%			
50) Toluene-d8	10.058	98	367276	52.27	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 104.54%			
62) 4-Bromofluorobenzene	12.373	95	125208	47.47	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 94.94%			
Target Compounds					Qvalue	
12) 1,1-Dichloroethene	3.701	96	24959	13.51	ug/l	92
16) Acetone	3.795	43	3597	3.40	ug/l	94
20) Methylene Chloride	4.499	84	434	0.20	ug/l #	58
21) trans-1,2-Dichloroethene	4.994	96	1791	0.92	ug/l #	94
24) 1,1-Dichloroethane	5.807	63	6837	1.88	ug/l #	94
27) cis-1,2-Dichloroethene	6.785	96	23560	10.65	ug/l	93
28) Bromochloromethane	7.335	49	1153	0.69	ug/l #	9
30) Chloroform	7.332	83	16840	4.68	ug/l	96
31) Cyclohexane	7.627	56	3317	0.97	ug/l #	3
36) 1,1-Dichloropropene	7.627	75	12446	4.56	ug/l #	49
38) Carbon Tetrachloride	7.624	117	16128	6.36	ug/l #	18
39) Methylcyclohexane	8.801	83	1887	0.62	ug/l #	1
42) 1,2-Dichloroethane	8.087	62	4955	1.80	ug/l	88
44) Trichloroethene	8.801	130	163402	78.96	ug/l	99
47) Bromodichloromethane	9.370	83	3288	1.24	ug/l #	95
49) 1,4-Dioxane	9.174	88	174	5.14	ug/l #	26
51) 4-Methyl-2-Pentanone	10.058	43	1368	0.57	ug/l #	1
52) Toluene	10.122	92	64706	12.59	ug/l	98
53) t-1,3-Dichloropropene	10.113	75	605	2.16	ug/l #	1
60) Dibromochloromethane	10.868	129	946	0.48	ug/l	99
64) Tetrachloroethene	10.598	164	594	0.31	ug/l #	65
71) Bromoform	12.360	173	98	2.57	ug/l #	29
76) 1,2,3-Trichloropropane	12.373	75	60697	27.79	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.373	75	60697	88.56	ug/l #	12
95) Naphthalene	15.109	128	2531	3.51	ug/l #	78

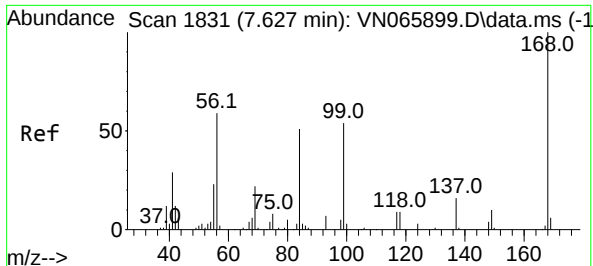
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021721W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 17 15:48:13 2021
Response via : Initial Calibration

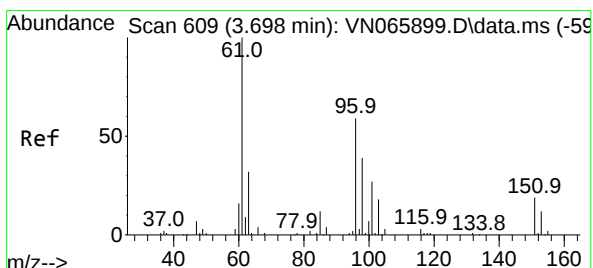
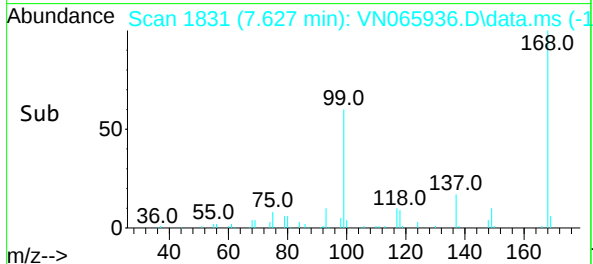
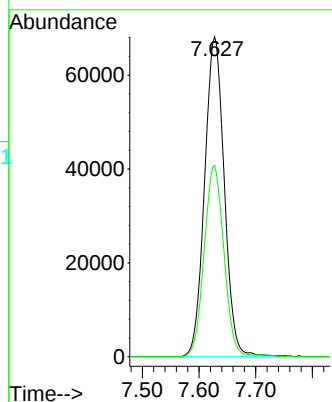
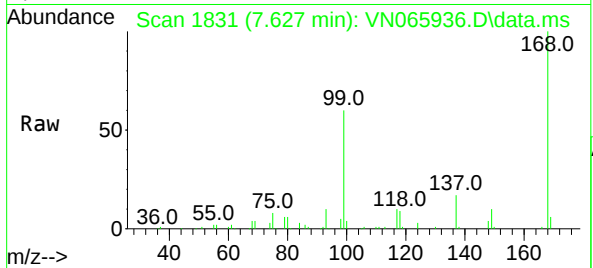




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.627 min Scan# 1831
Delta R.T. 0.000 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21

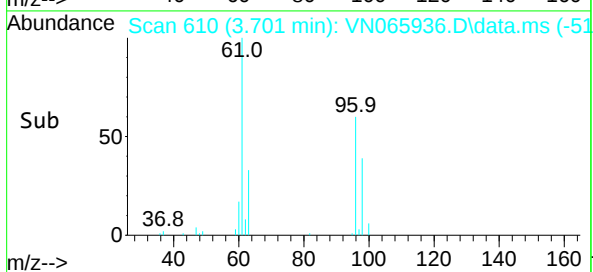
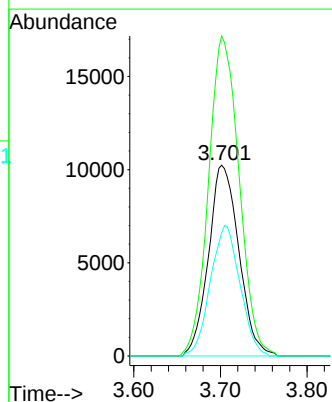
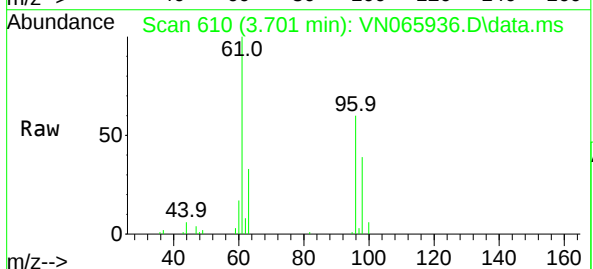
Instrument :
MSVOA_N
ClientSampled :

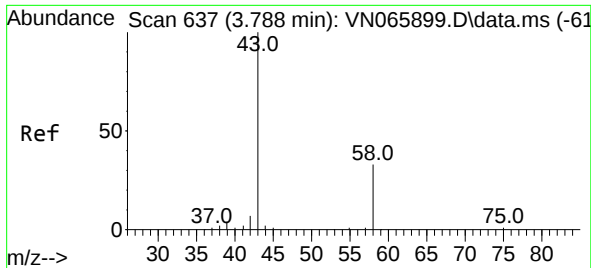
Tgt Ion:168 Resp: 164460
Ion Ratio Lower Upper
168 100
99 59.8 42.6 63.8



#12
1,1-Dichloroethene
Concen: 13.51 ug/l
RT: 3.701 min Scan# 610
Delta R.T. 0.003 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21

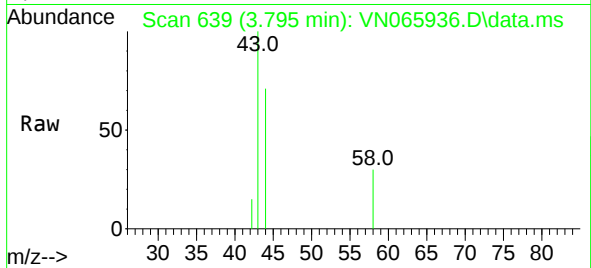
Tgt Ion: 96 Resp: 24959
Ion Ratio Lower Upper
96 100
61 167.8 122.5 183.7
98 64.6 50.8 76.2



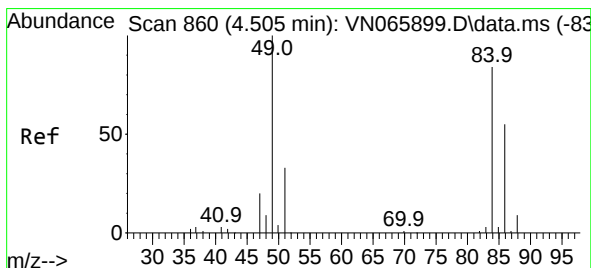
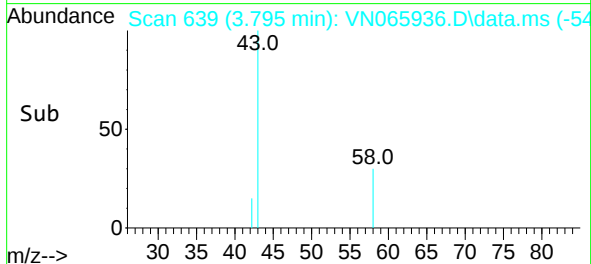
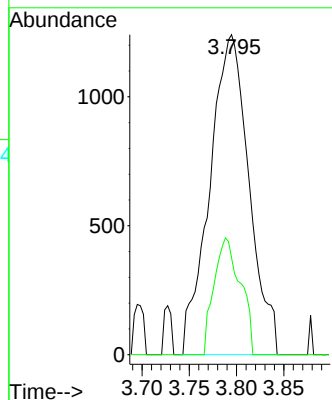


#16
Acetone
Concen: 3.40 ug/l
RT: 3.795 min Scan# 639
Delta R.T. 0.007 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21

Instrument :
MSVOA_N
ClientSampled :

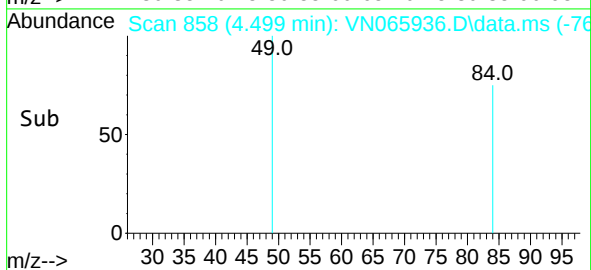
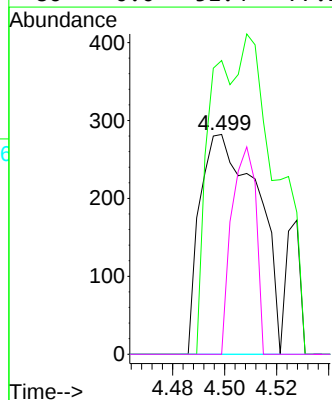
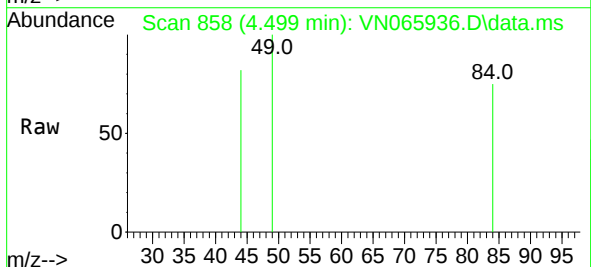


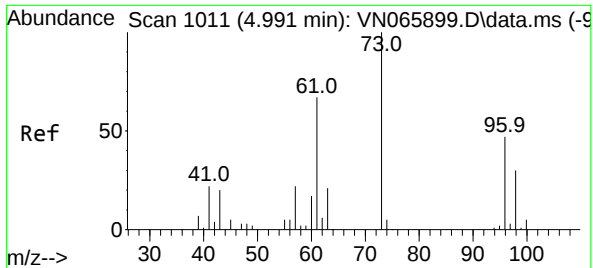
Tgt Ion: 43 Resp: 3597
Ion Ratio Lower Upper
43 100
58 30.3 27.0 40.6



#20
Methylene Chloride
Concen: 0.20 ug/l
RT: 4.499 min Scan# 858
Delta R.T. -0.006 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21

Tgt Ion: 84 Resp: 434
Ion Ratio Lower Upper
84 100
49 133.7 94.6 141.8
51 0.0 29.9 44.9#
86 0.0 51.4 77.2#

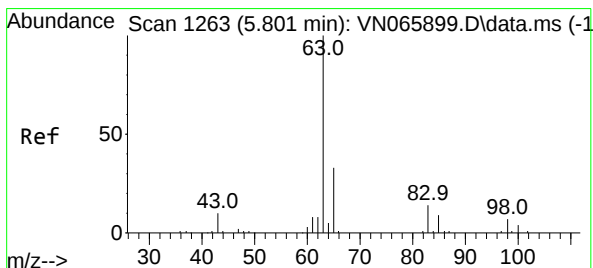
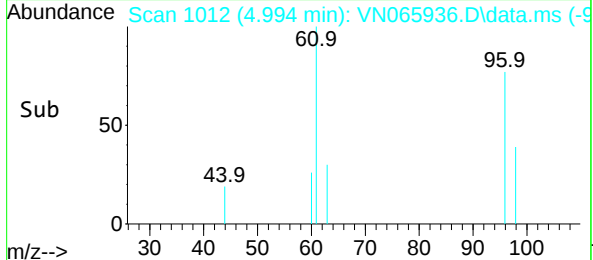
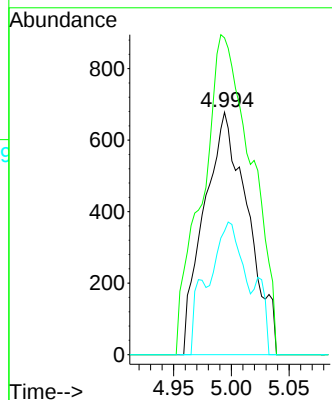
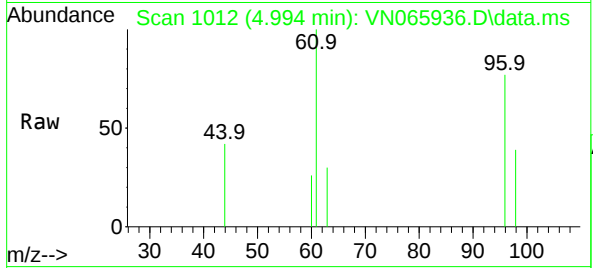




#21
trans-1,2-Dichloroethene
Concen: 0.92 ug/l
RT: 4.994 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21

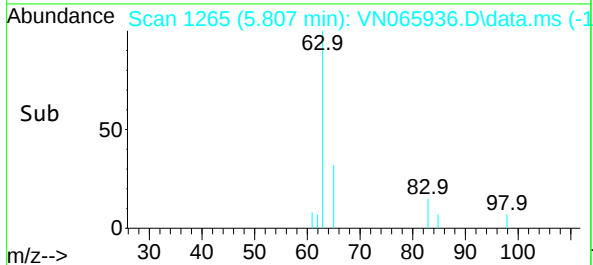
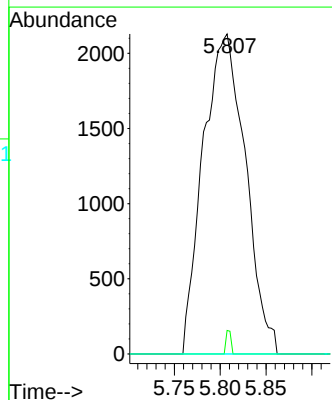
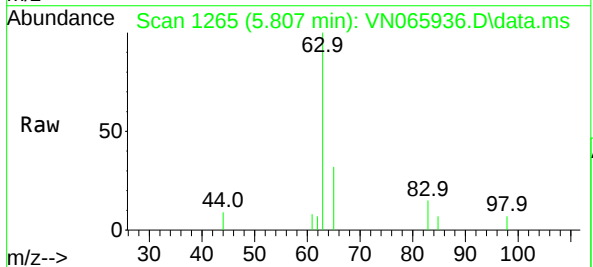
Instrument :
MSVOA_N
ClientSampled :

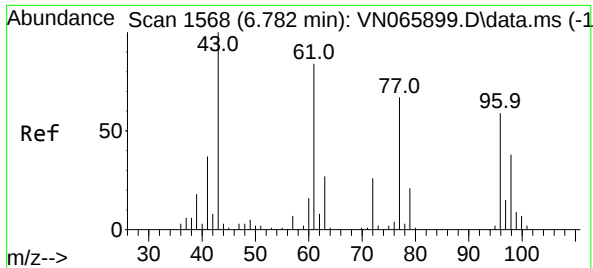
Tgt Ion: 96 Resp: 1791
Ion Ratio Lower Upper
96 100
61 130.7 104.9 157.3
98 51.0 51.8 77.8#



#24
1,1-Dichloroethane
Concen: 1.88 ug/l
RT: 5.807 min Scan# 1265
Delta R.T. 0.006 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21

Tgt Ion: 63 Resp: 6837
Ion Ratio Lower Upper
63 100
98 7.3 3.5 10.4
100 0.0 2.3 6.9#



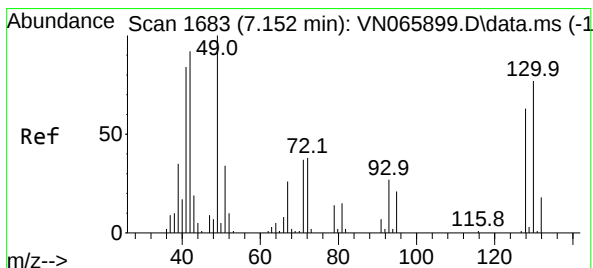
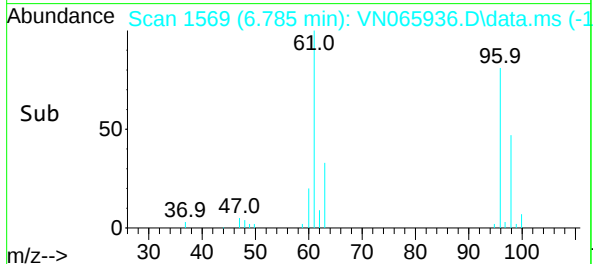
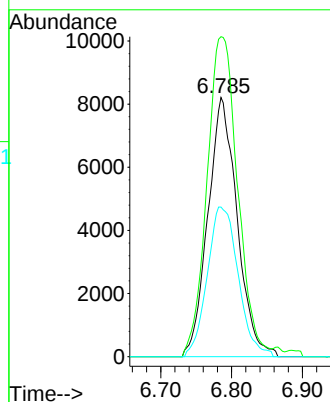
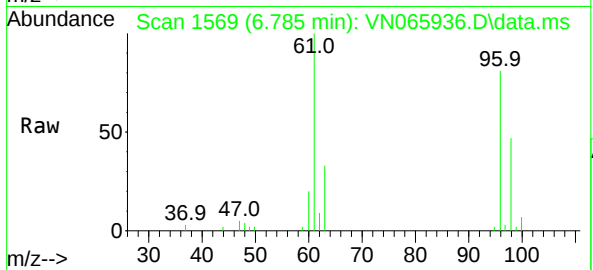


#27

cis-1,2-Dichloroethene
Concen: 10.65 ug/l
RT: 6.785 min Scan# 1569
Delta R.T. 0.003 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21

Instrument :
MSVOA_N
ClientSampled :

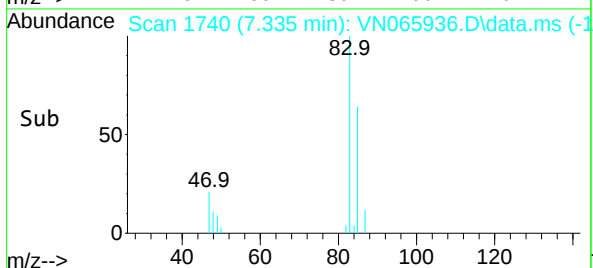
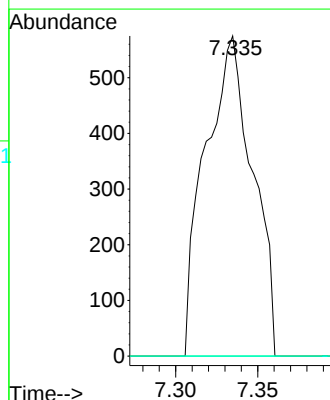
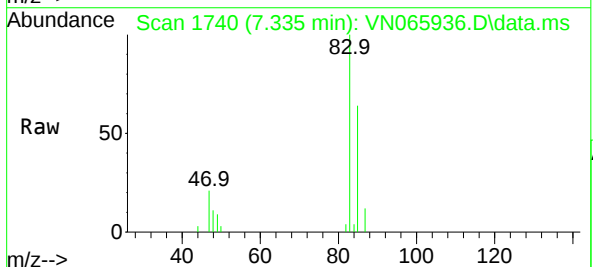
Tgt Ion: 96	Resp: 23560
Ion Ratio	Lower Upper
96 100	
61 129.5	0.0 276.8
98 61.0	0.0 129.4

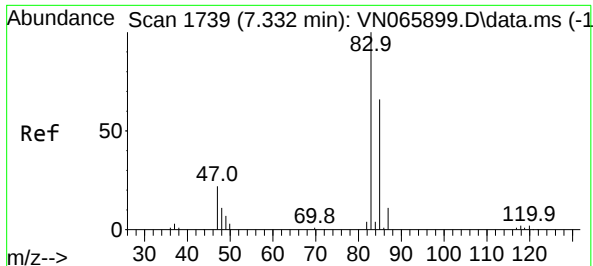


#28

Bromochloromethane
Concen: 0.69 ug/l
RT: 7.335 min Scan# 1740
Delta R.T. 0.183 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21

Tgt Ion: 49	Resp: 1153
Ion Ratio	Lower Upper
49 100	
129 0.0	0.0 3.6
130 0.0	67.8 101.6#





#30

Chloroform

Concen: 4.68 ug/l

RT: 7.332 min Scan# 1739

Delta R.T. -0.000 min

Lab File: VN065936.D

Acq: 18 Feb 2021 13:21

Tgt Ion: 83 Resp: 16840

Ion Ratio Lower Upper

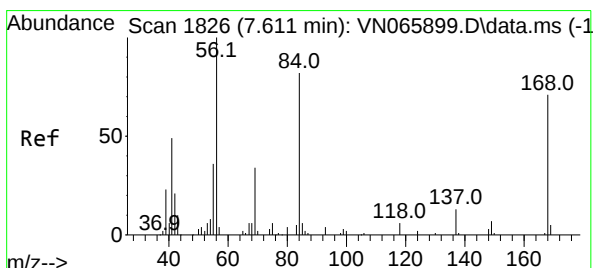
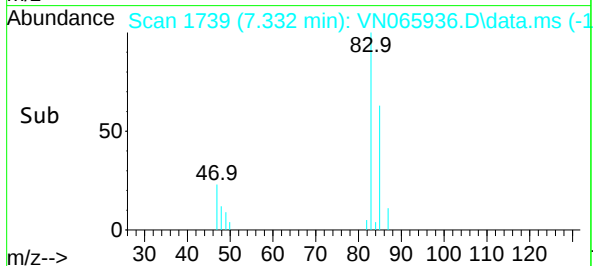
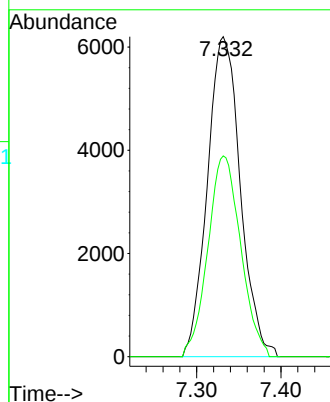
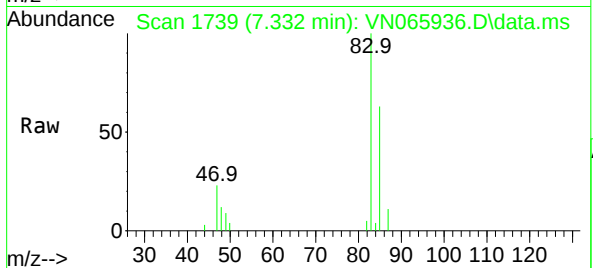
83 100

85 62.8 52.6 78.8

Instrument :

MSVOA_N

ClientSampled :



#31

Cyclohexane

Concen: 0.97 ug/l

RT: 7.627 min Scan# 1831

Delta R.T. 0.016 min

Lab File: VN065936.D

Acq: 18 Feb 2021 13:21

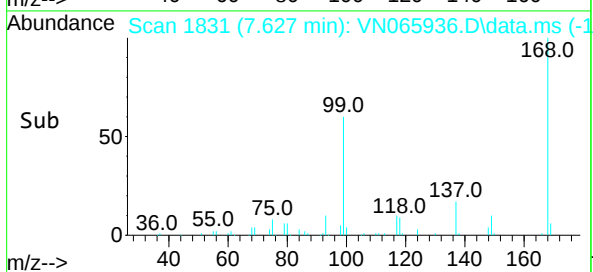
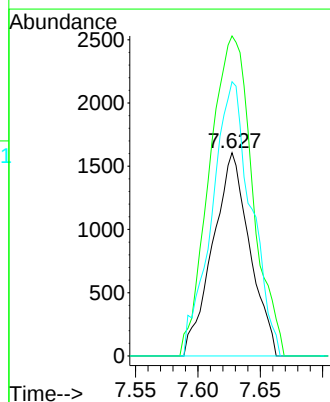
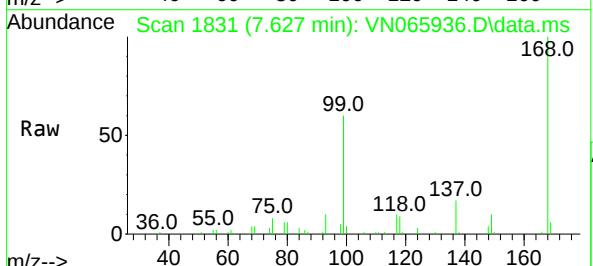
Tgt Ion: 56 Resp: 3317

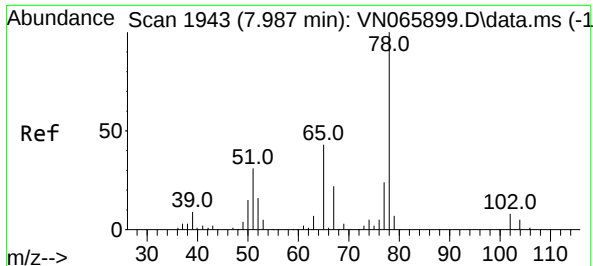
Ion Ratio Lower Upper

56 100

69 157.4 26.6 39.8#

84 134.9 70.4 105.6#

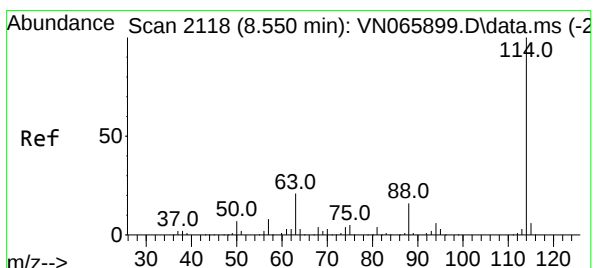
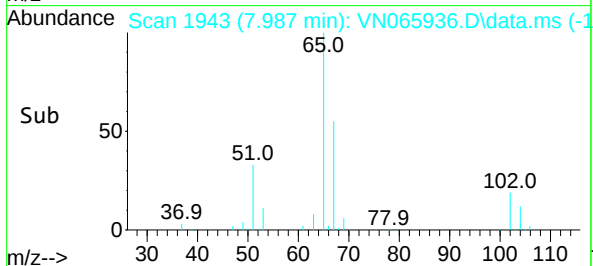
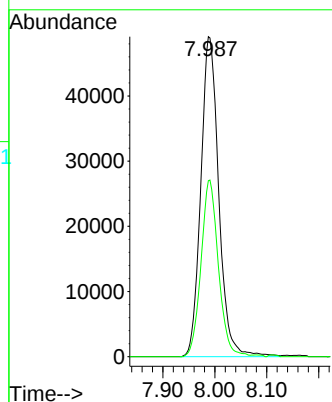
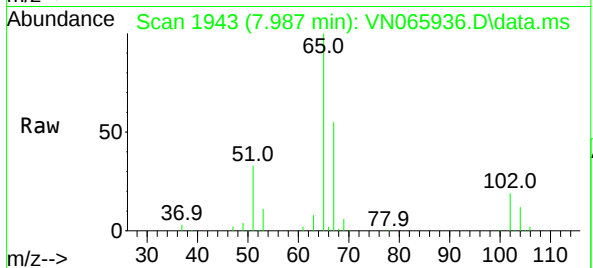




#33
1,2-Dichloroethane-d4
Concen: 51.29 ug/l
RT: 7.987 min Scan# 1943
Delta R.T. 0.000 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21

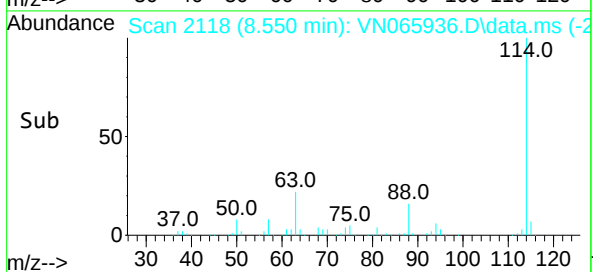
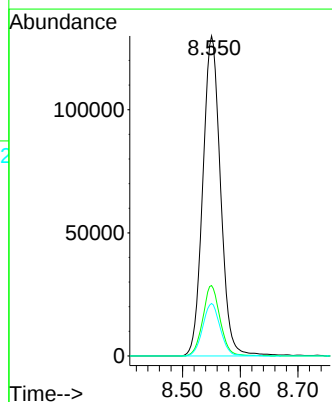
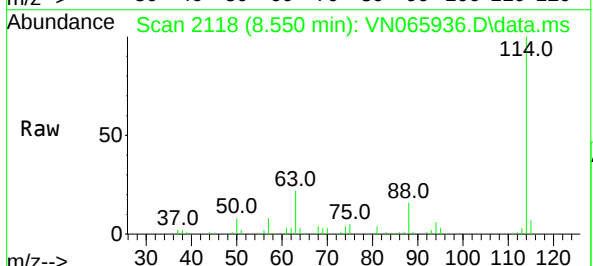
Instrument :
MSVOA_N
ClientSampled :

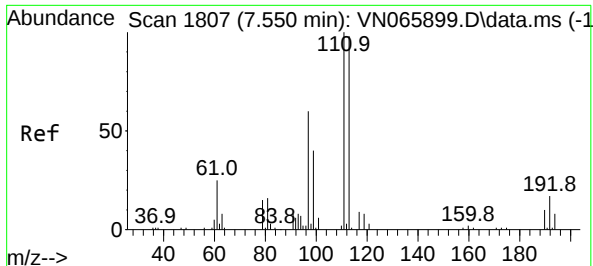
Tgt Ion: 65 Resp: 117963
Ion Ratio Lower Upper
65 100
67 53.4 0.0 107.2



#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.550 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21

Tgt Ion: 114 Resp: 276585
Ion Ratio Lower Upper
114 100
63 22.0 0.0 38.6
88 16.4 0.0 30.6





#35

Dibromofluoromethane

Concen: 53.02 ug/l

RT: 7.553 min Scan# 1808

Delta R.T. 0.003 min

Lab File: VN065936.D

Acq: 18 Feb 2021 13:21

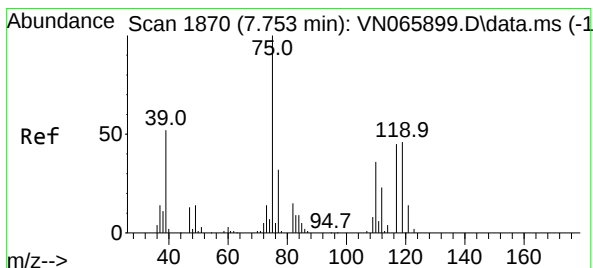
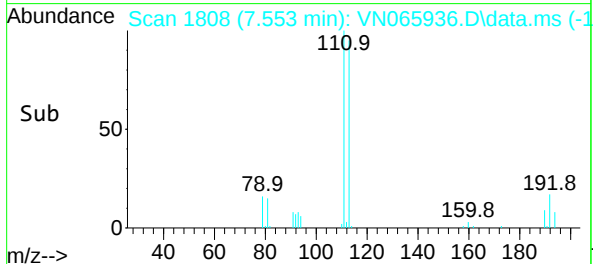
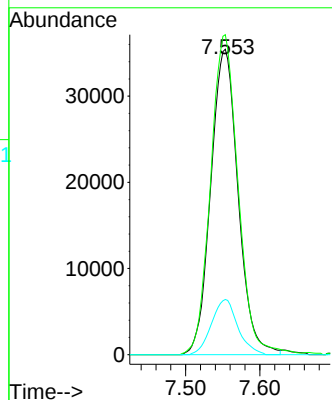
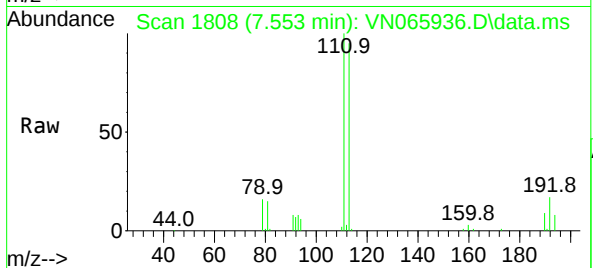
Tgt Ion:113 Resp: 90763

Ion Ratio Lower Upper

113 100

111 105.4 82.2 123.2

192 17.4 15.4 23.0



#36

1,1-Dichloropropene

Concen: 4.56 ug/l

RT: 7.627 min Scan# 1831

Delta R.T. -0.126 min

Lab File: VN065936.D

Acq: 18 Feb 2021 13:21

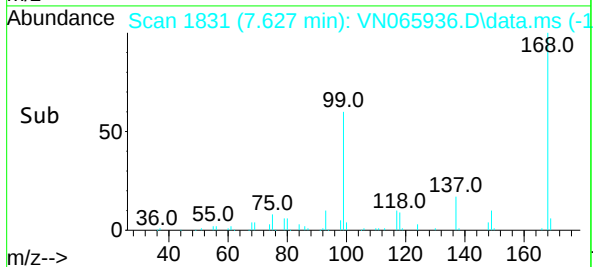
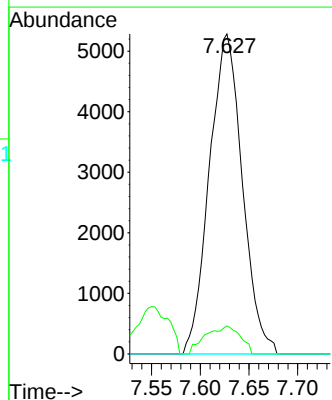
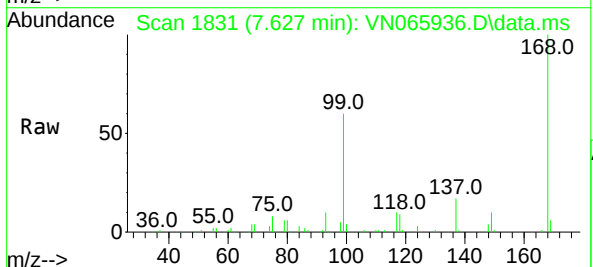
Tgt Ion: 75 Resp: 12446

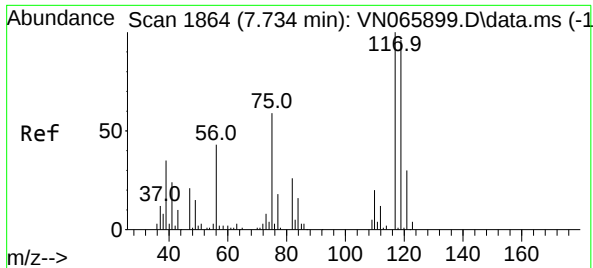
Ion Ratio Lower Upper

75 100

110 9.2 18.2 54.6#

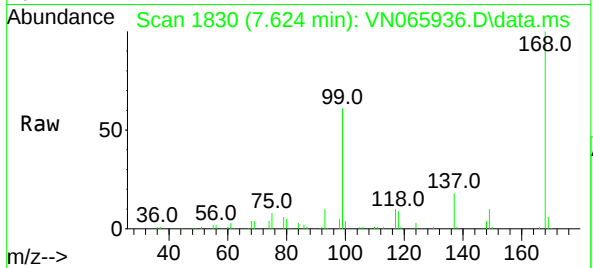
77 0.0 24.9 37.3#



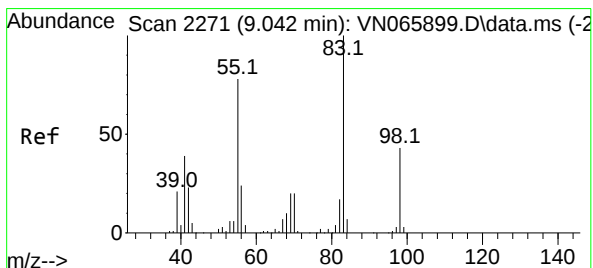
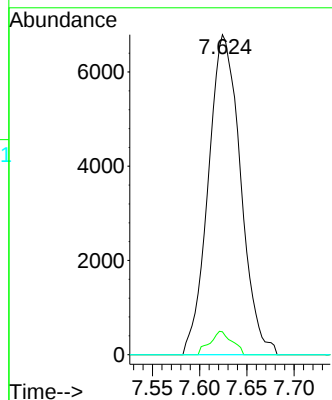
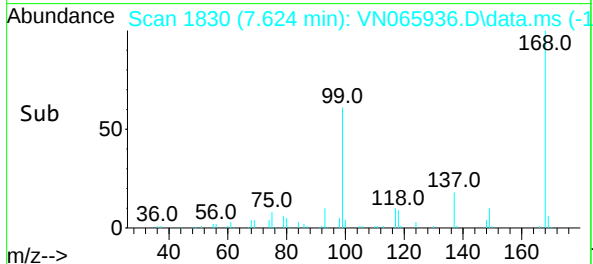


#38
Carbon Tetrachloride
Concen: 6.36 ug/l
RT: 7.624 min Scan# 1830
Delta R.T. -0.110 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21

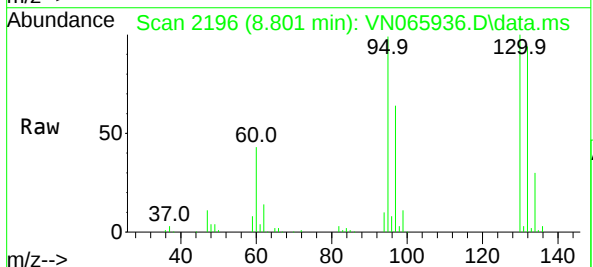
Instrument :
MSVOA_N
ClientSampled :



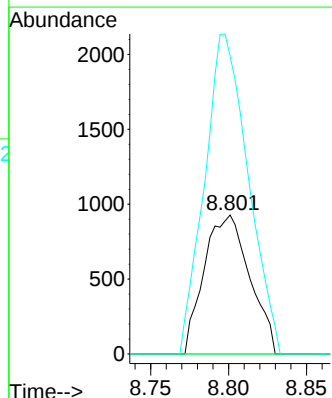
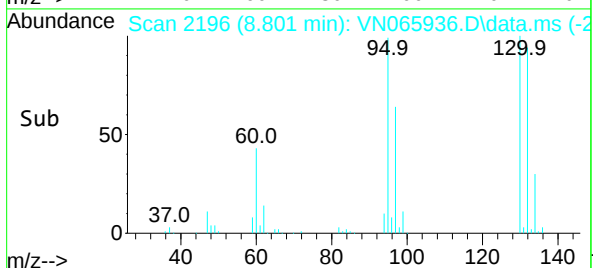
Tgt Ion:117 Resp: 16128
Ion Ratio Lower Upper
117 100
119 7.1 76.0 114.0#
121 0.0 24.5 36.7#

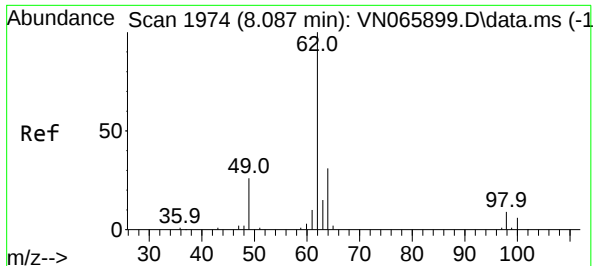


#39
Methylcyclohexane
Concen: 0.62 ug/l
RT: 8.801 min Scan# 2196
Delta R.T. -0.241 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21



Tgt Ion: 83 Resp: 1887
Ion Ratio Lower Upper
83 100
55 0.0 58.9 88.3#
98 214.1 35.9 53.9#





#42

1,2-Dichloroethane

Concen: 1.80 ug/l

RT: 8.087 min Scan# 1974

Delta R.T. 0.000 min

Lab File: VN065936.D

Acq: 18 Feb 2021 13:21

Tgt Ion: 62 Resp: 4955

Ion Ratio Lower Upper

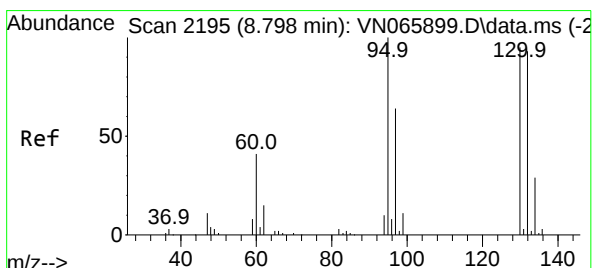
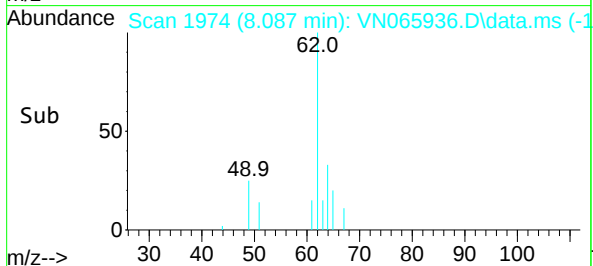
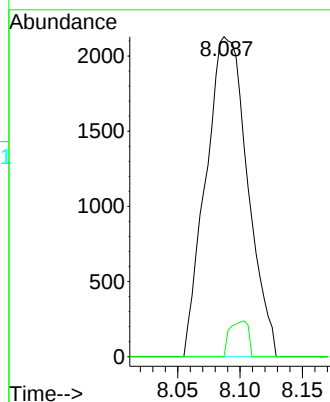
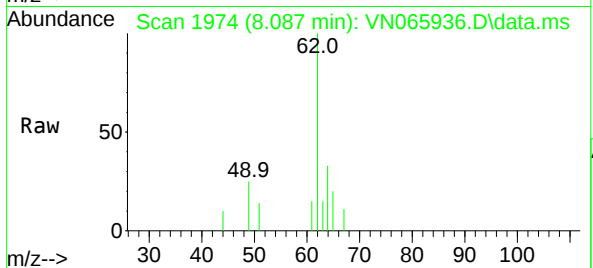
62 100

98 5.0 0.0 18.6

Instrument :

MSVOA_N

ClientSampled :



#44

Trichloroethene

Concen: 78.96 ug/l

RT: 8.801 min Scan# 2196

Delta R.T. 0.003 min

Lab File: VN065936.D

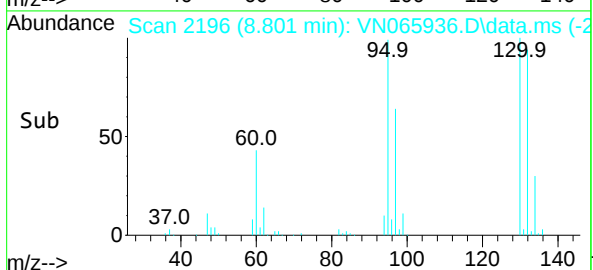
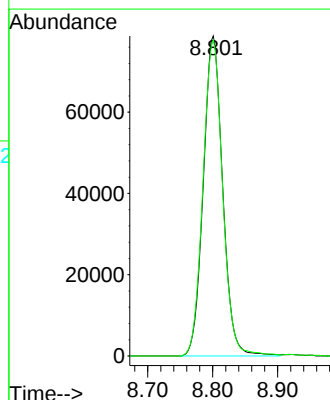
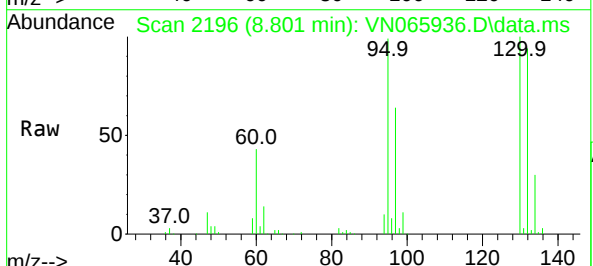
Acq: 18 Feb 2021 13:21

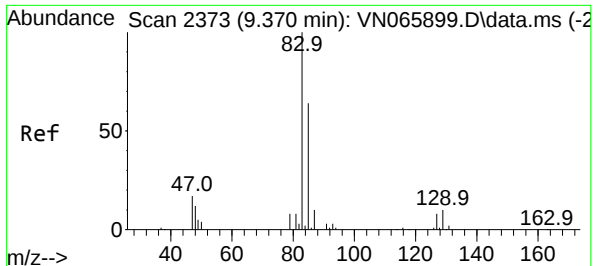
Tgt Ion:130 Resp: 163402

Ion Ratio Lower Upper

130 100

95 98.7 0.0 199.6

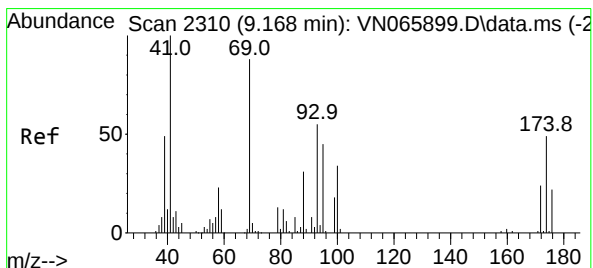
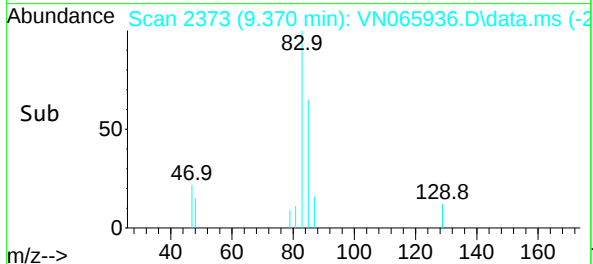
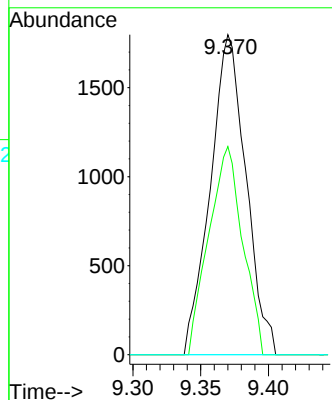
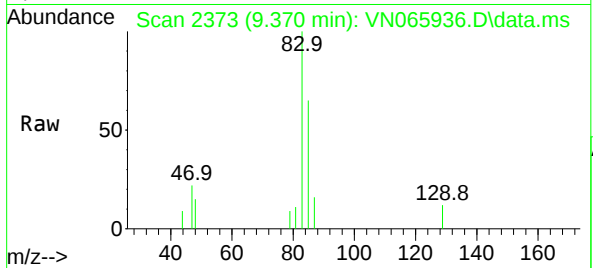




#47
Bromodichloromethane
Concen: 1.24 ug/l
RT: 9.370 min Scan# 2373
Delta R.T. 0.000 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21

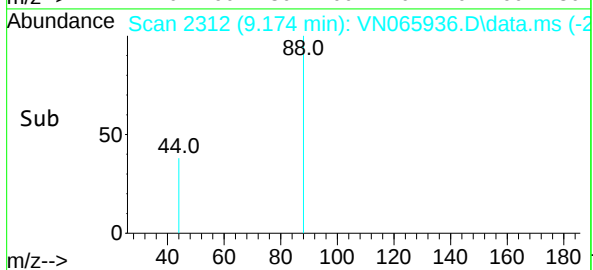
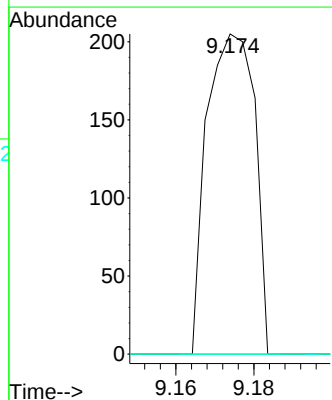
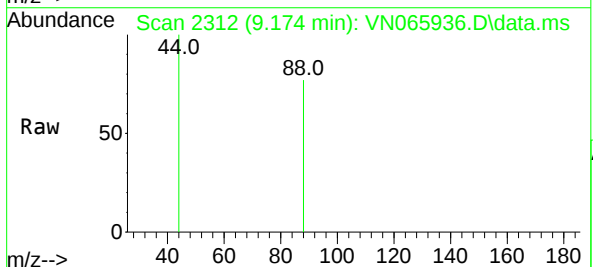
Instrument :
MSVOA_N
ClientSampled :

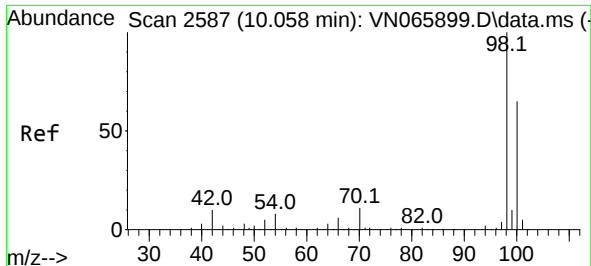
Tgt Ion: 83 Resp: 3288
Ion Ratio Lower Upper
83 100
85 65.1 51.0 76.4
127 0.0 7.0 10.6#



#49
1,4-Dioxane
Concen: 5.14 ug/l
RT: 9.174 min Scan# 2312
Delta R.T. 0.006 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21

Tgt Ion: 88 Resp: 174
Ion Ratio Lower Upper
88 100
43 0.0 24.7 37.1#
58 0.0 52.6 78.8#

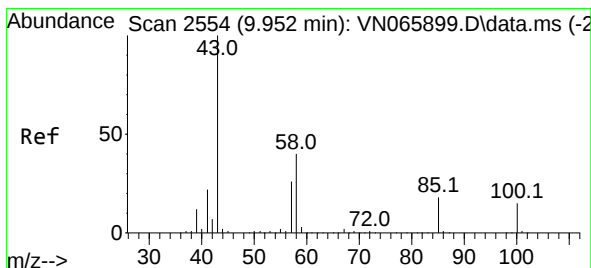
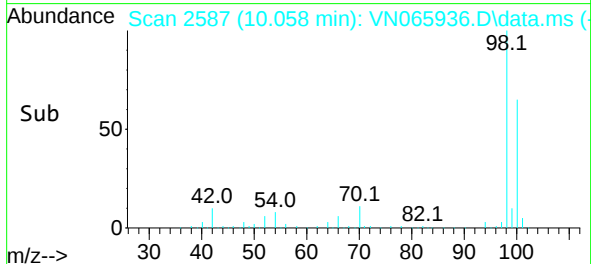
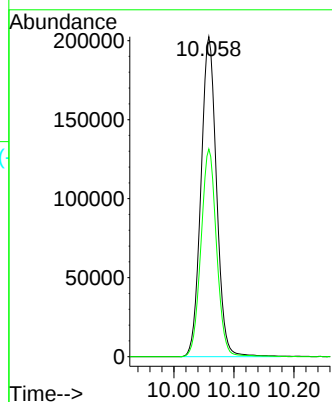
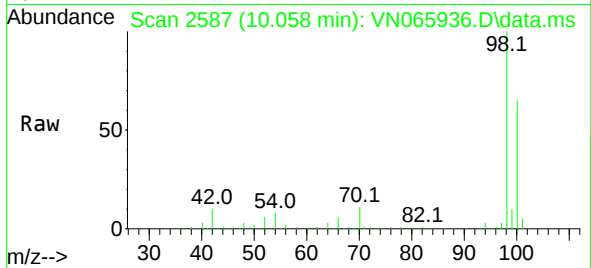




#50
Toluene-d8
Concen: 52.27 ug/l
RT: 10.058 min Scan# 2587
Delta R.T. 0.000 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21

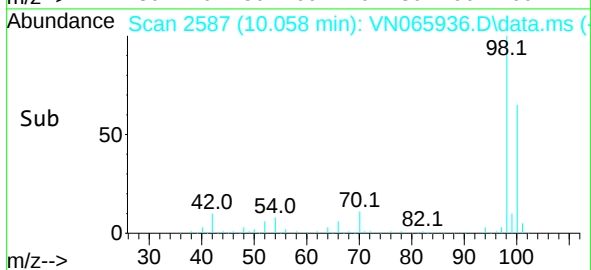
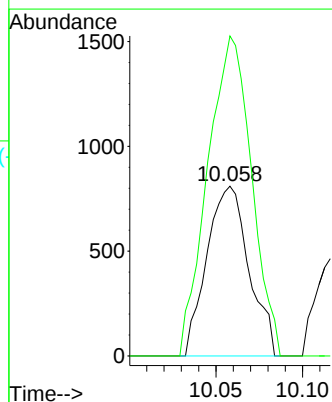
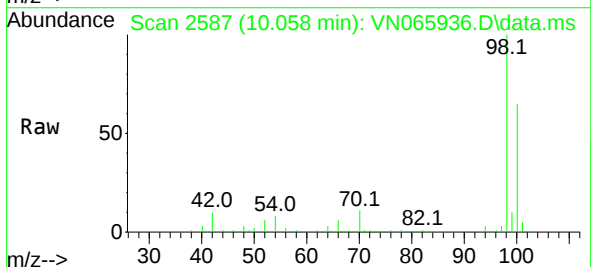
Instrument :
MSVOA_N
ClientSampled :

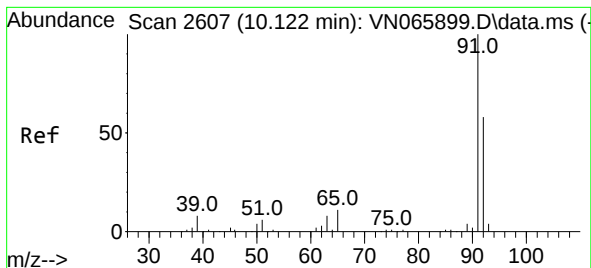
Tgt Ion: 98 Resp: 367276
Ion Ratio Lower Upper
98 100
100 65.1 50.5 75.7



#51
4-Methyl-2-Pentanone
Concen: 0.57 ug/l
RT: 10.058 min Scan# 2587
Delta R.T. 0.106 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21

Tgt Ion: 43 Resp: 1368
Ion Ratio Lower Upper
43 100
58 196.7 32.5 48.7#





#52

Toluene

Concen: 12.59 ug/l

RT: 10.122 min Scan# 2607

Delta R.T. 0.000 min

Lab File: VN065936.D

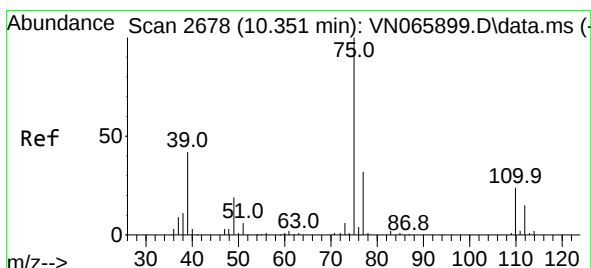
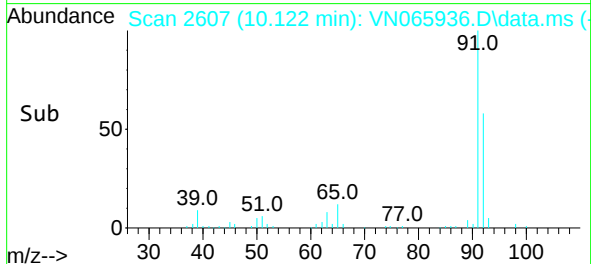
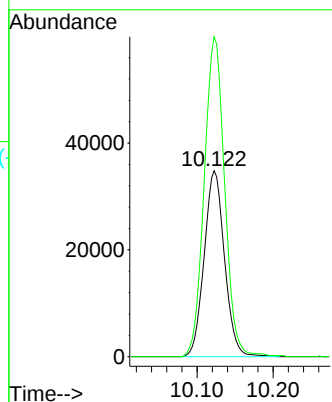
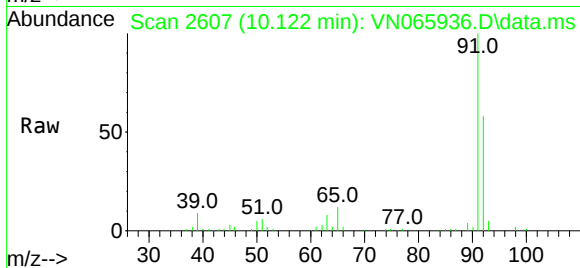
Acq: 18 Feb 2021 13:21

Tgt Ion: 92 Resp: 64706

Ion Ratio Lower Upper

92 100

91 172.8 140.7 211.1



#53

t-1,3-Dichloropropene

Concen: 2.16 ug/l

RT: 10.113 min Scan# 2604

Delta R.T. -0.238 min

Lab File: VN065936.D

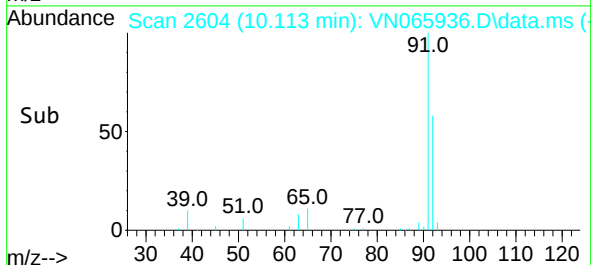
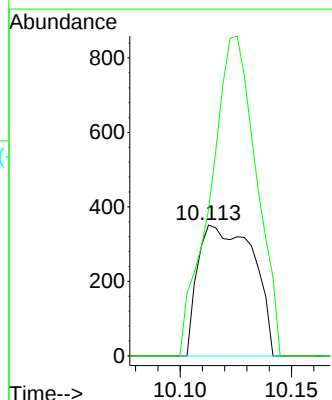
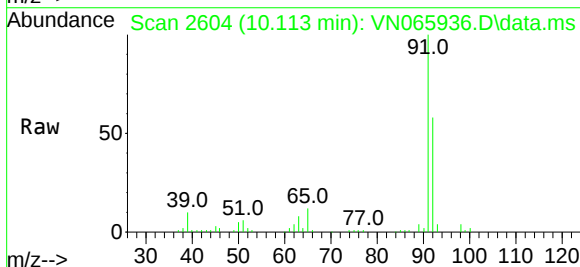
Acq: 18 Feb 2021 13:21

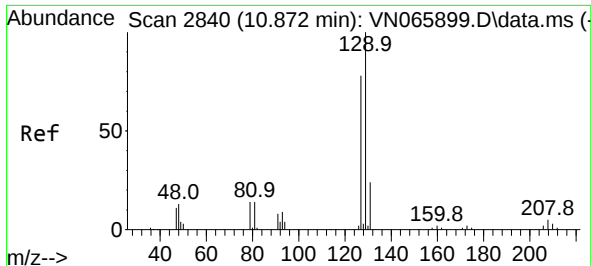
Tgt Ion: 75 Resp: 605

Ion Ratio Lower Upper

75 100

77 111.7 26.2 39.4#

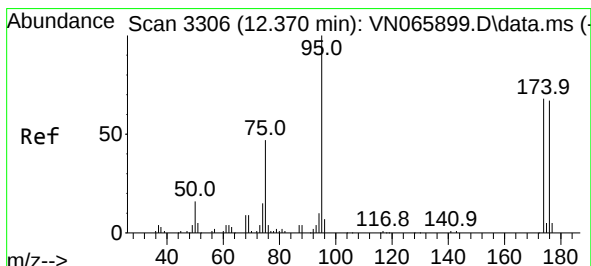
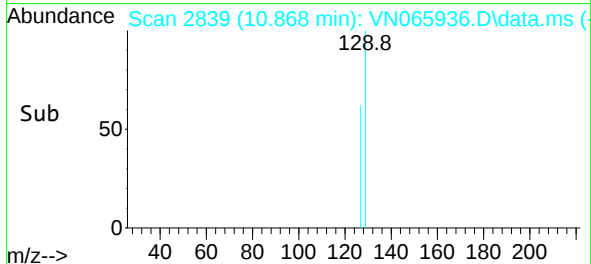
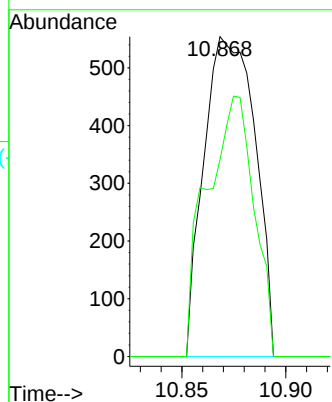
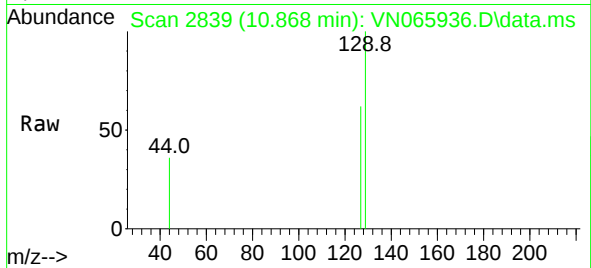




#60
Dibromochloromethane
Concen: 0.48 ug/l
RT: 10.868 min Scan# 2839
Delta R.T. -0.004 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21

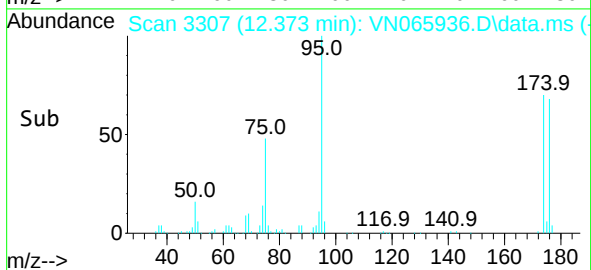
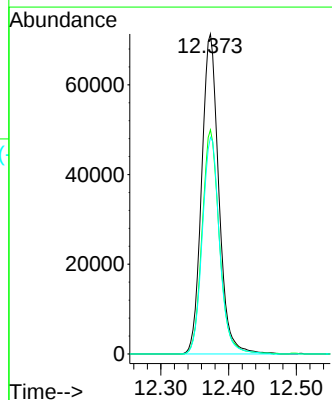
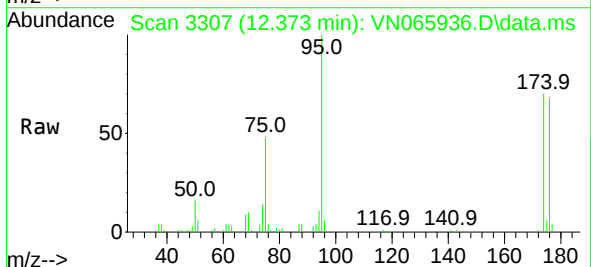
Instrument :
MSVOA_N
ClientSampled :

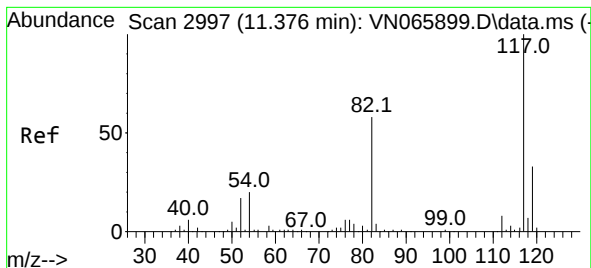
Tgt Ion:129 Resp: 946
Ion Ratio Lower Upper
129 100
127 75.9 38.5 115.5



#62
4-Bromofluorobenzene
Concen: 47.47 ug/l
RT: 12.373 min Scan# 3307
Delta R.T. 0.003 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21

Tgt Ion: 95 Resp: 125208
Ion Ratio Lower Upper
95 100
174 70.5 0.0 169.0
176 68.4 0.0 162.4

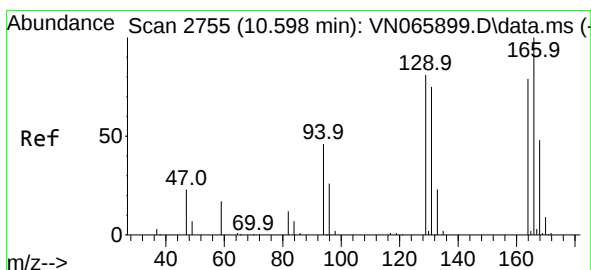
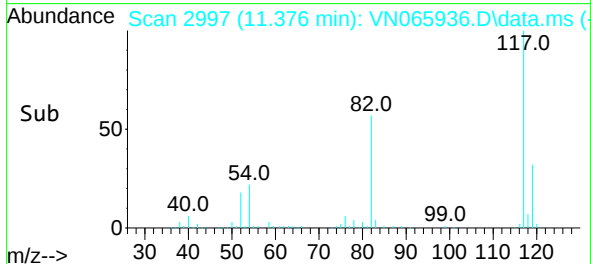
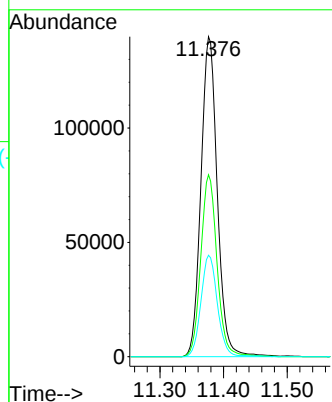
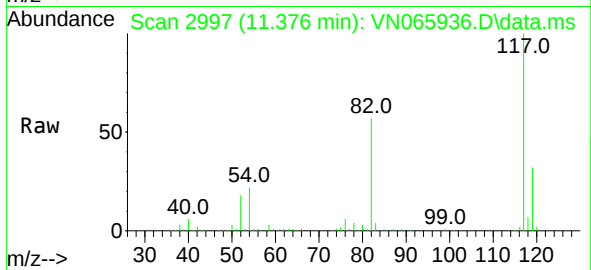




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.376 min Scan# 2997
Delta R.T. 0.000 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21

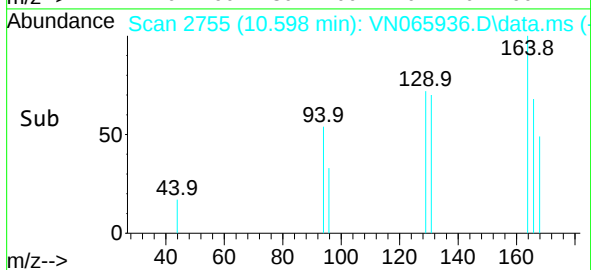
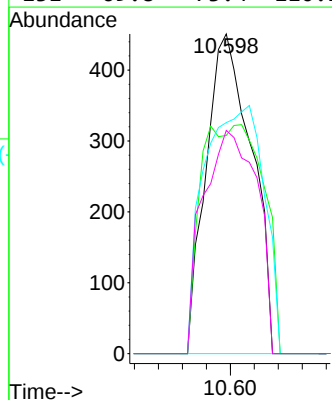
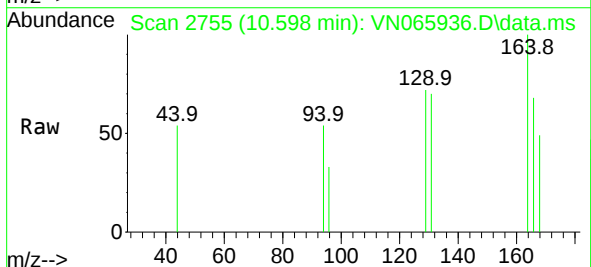
Instrument :
MSVOA_N
ClientSampled :

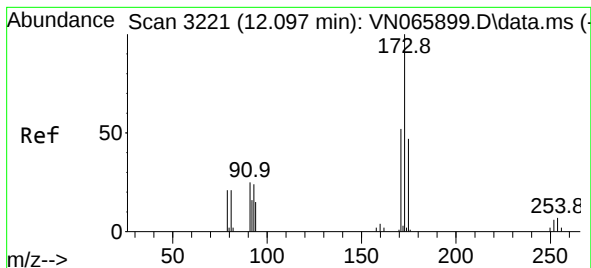
Tgt Ion:117 Resp: 249809
Ion Ratio Lower Upper
117 100
82 56.9 43.7 65.5
119 31.7 26.1 39.1



#64
Tetrachloroethene
Concen: 0.31 ug/l
RT: 10.598 min Scan# 2755
Delta R.T. 0.000 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21

Tgt Ion:164 Resp: 594
Ion Ratio Lower Upper
164 100
166 68.3 102.6 154.0#
129 72.3 76.2 114.4#
131 69.8 73.4 110.2#





#71

Bromoform

Concen: 2.57 ug/l

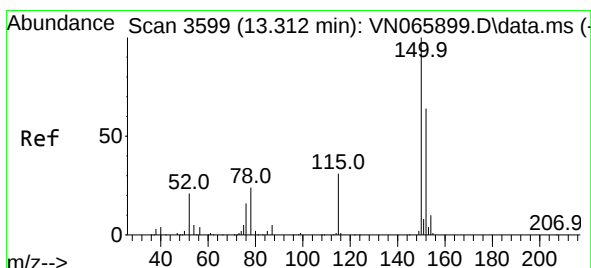
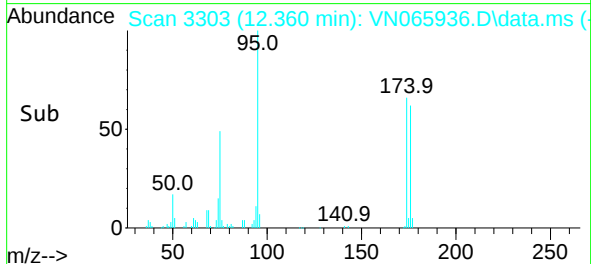
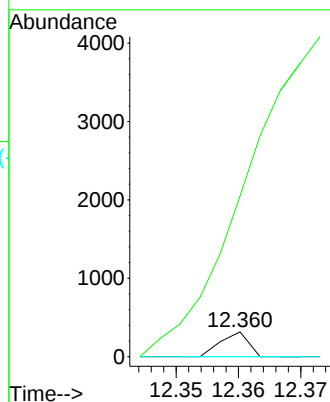
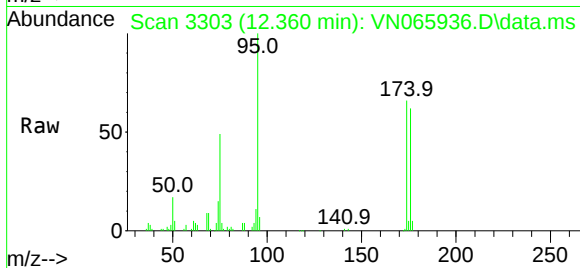
RT: 12.360 min Scan# 3303

Delta R.T. 0.263 min

Lab File: VN065936.D

Acq: 18 Feb 2021 13:21

Tgt Ion:	173	Resp:	98
Ion Ratio	Lower	Upper	
173	100		
175	0.0	23.8	71.2#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

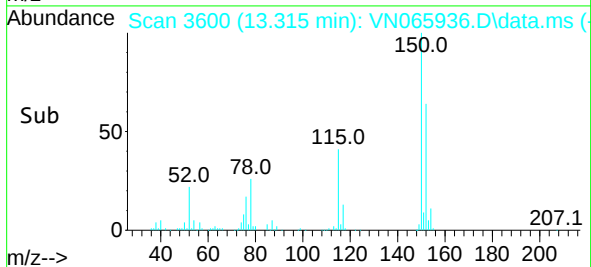
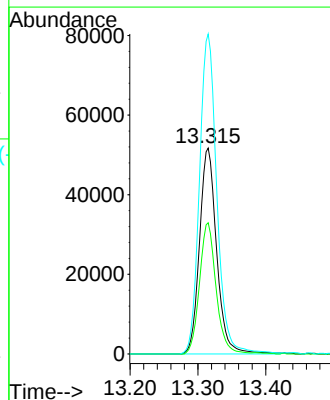
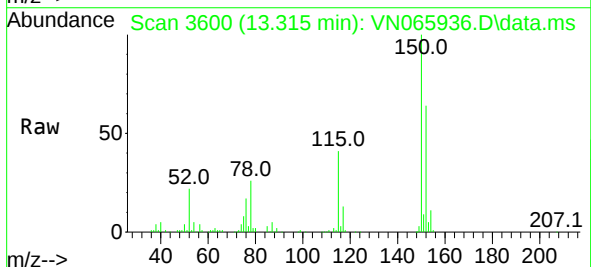
RT: 13.315 min Scan# 3600

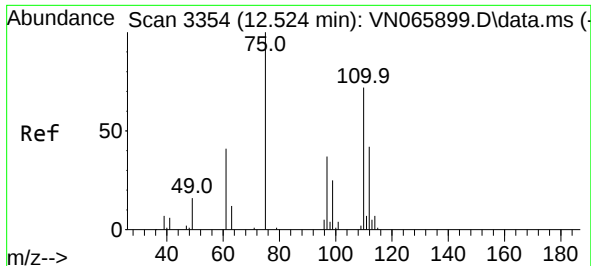
Delta R.T. 0.003 min

Lab File: VN065936.D

Acq: 18 Feb 2021 13:21

Tgt Ion:	152	Resp:	90928
Ion Ratio	Lower	Upper	
152	100		
115	61.4	28.5	85.6
150	157.3	0.0	347.6

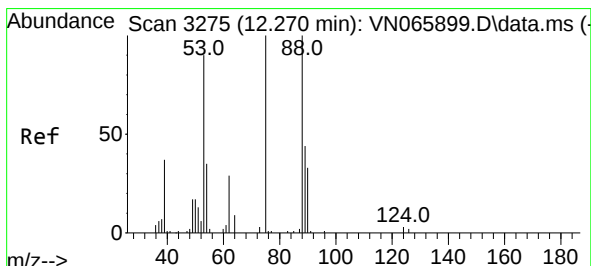
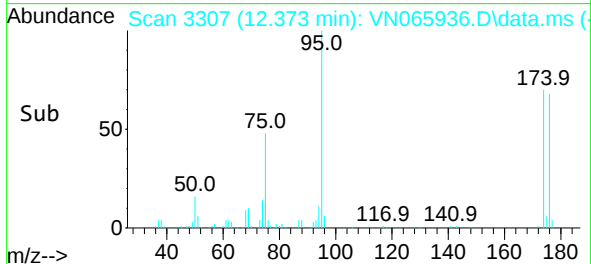
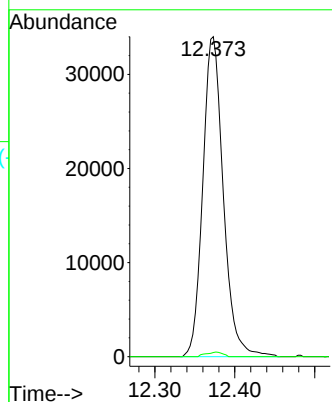
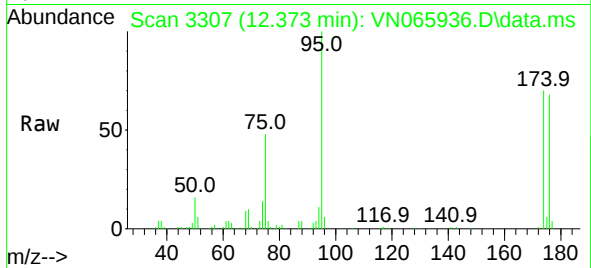




#76
1,2,3-Trichloropropane
Concen: 27.79 ug/l
RT: 12.373 min Scan# 3307
Delta R.T. -0.151 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21

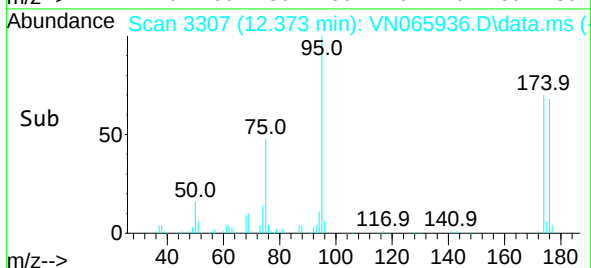
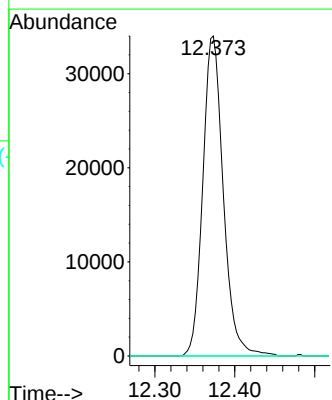
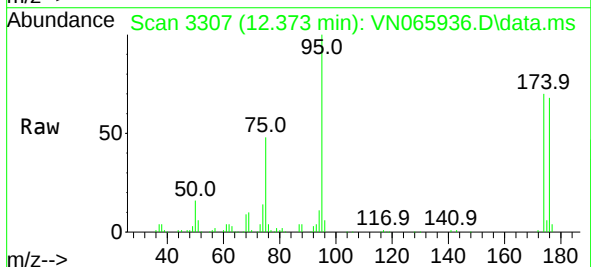
Instrument :
MSVOA_N
ClientSampled :

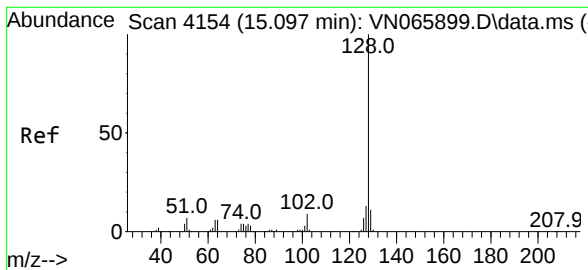
Tgt Ion: 75 Resp: 60697
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 88.56 ug/l
RT: 12.373 min Scan# 3307
Delta R.T. 0.103 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21

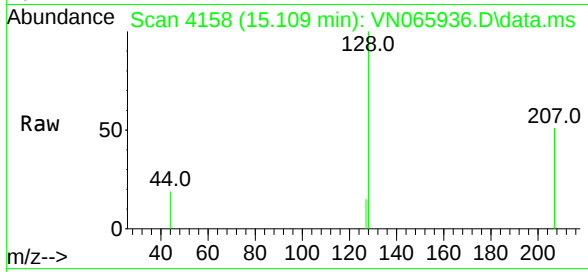
Tgt Ion: 75 Resp: 60697
Ion Ratio Lower Upper
75 100
53 0.0 74.6 111.8#
89 0.0 35.8 53.8#





#95
Naphthalene
Concen: 3.51 ug/l
RT: 15.109 min Scan# 4158
Delta R.T. 0.012 min
Lab File: VN065936.D
Acq: 18 Feb 2021 13:21

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:128 Resp: 2531
Ion Ratio Lower Upper
128 100
127 5.1 10.2 15.2#
129 1.1 8.6 13.0#

