

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012021\
 Data File : VN065564.D
 Acq On : 20 Jan 2021 12:33
 Operator : JC/MD
 Sample : M1175-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MANHOLE

Quant Time: Jan 21 01:22:17 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N011321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jan 14 04:12:08 2021
 Response via : Initial Calibration

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

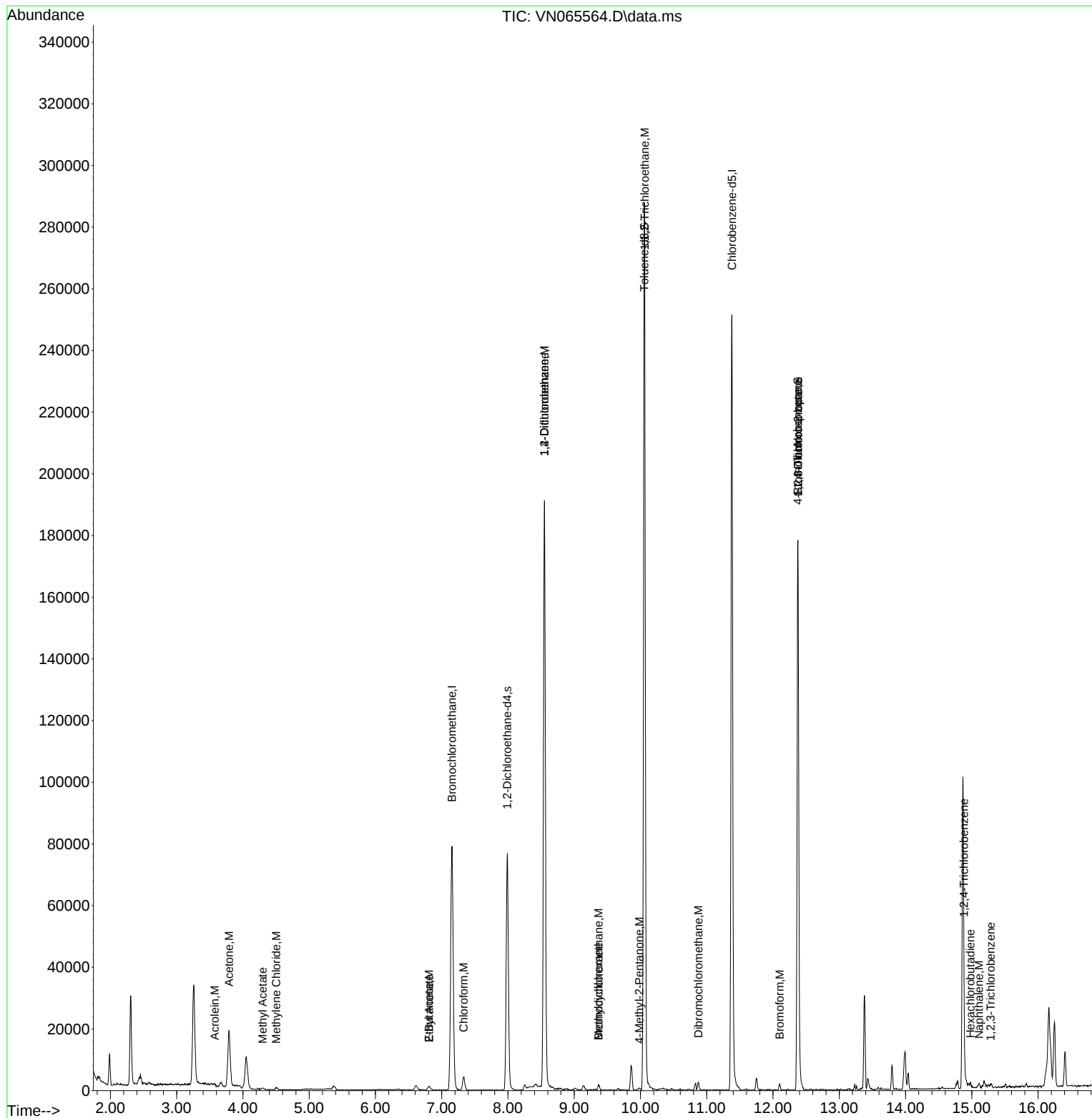
Internal Standards						
1) Bromochloromethane	7.155	128	36275	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.550	114	187010	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.379	117	167661	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.990	65	65929	29.09	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.97%		
60) 4-Bromofluorobenzene	12.373	95	64363	25.35	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	84.50%		
63) Toluene-d8	10.058	98	216786	29.54	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.47%		
Target Compounds					Qvalue	
12) Methyl Acetate	4.296	43	1207	0.62	ug/l #	50
13) Acrolein	3.573	56	254	0.77	ug/l #	26
15) Acetone	3.788	58	10756	39.63	ug/l	97
18) Methylene Chloride	4.502	84	567	0.26	ug/l #	62
25) Chloroform	7.331	83	5267	1.44	ug/l	99
30) 2-Butanone	6.807	43	2055	1.92	ug/l #	58
36) 1,2-Dichloroethane	8.550	62	5150	1.91	ug/l #	74
38) Methylcyclohexane	9.367	83	1581	0.51	ug/l #	19
41) Bromodichloromethane	9.367	83	1581	0.57	ug/l #	82
43) Ethyl Acetate	6.807	43	2055	0.90	ug/l #	62
50) 1,1,2-Trichloroethane	10.064	97	7780	3.74	ug/l #	1
53) Dibromochloromethane	10.875	129	2031	0.88	ug/l	95
56) Bromoform	12.100	173	1267	0.71	ug/l #	85
58) 4-Methyl-2-Pentanone	9.981	43	1226	0.55	ug/l #	42
72) 1,2,3-Trichloropropane	12.376	75	29760	11.66	ug/l	1
77) t-1,4-Dichloro-2-butene	12.376	75	29760	33.17	ug/l #	14
89) 1,2,4-Trichlorobenzene	14.881	180	296	7.80	ug/l #	16
90) Hexachlorobutadiene	14.981	225	482	0.31	ug/l #	52
91) Naphthalene	15.109	128	1928	9.31	ug/l #	70
92) 1,2,3-Trichlorobenzene	15.286	180	738	0.33	ug/l #	87

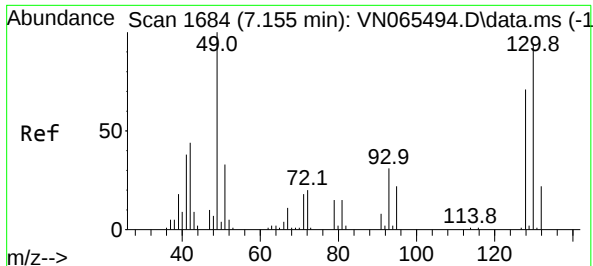
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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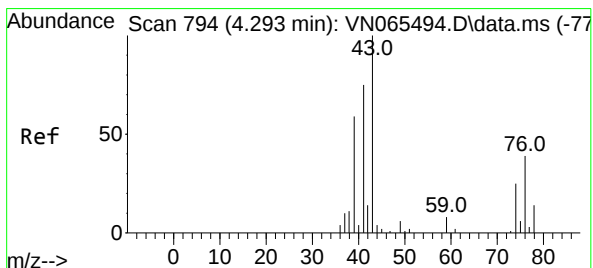
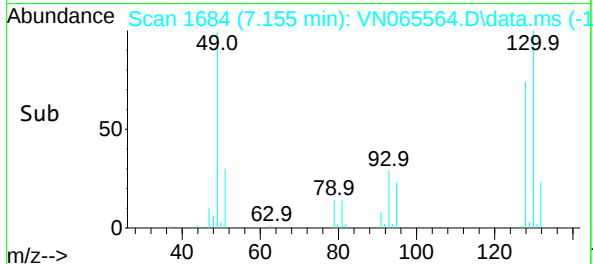
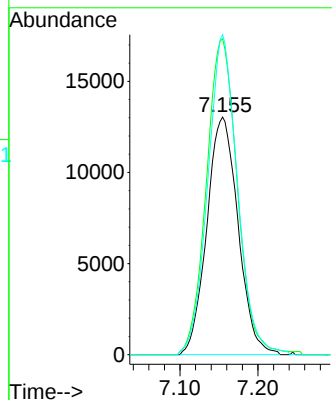
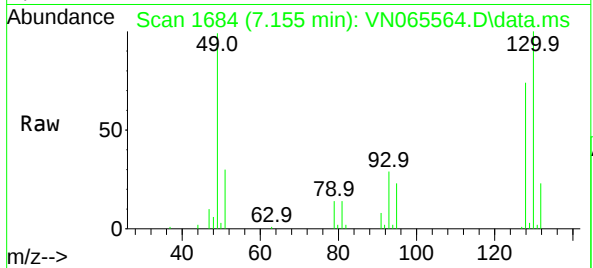




#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 7.155 min Scan# 1684
Delta R.T. -0.000 min
Lab File: VN065564.D
Acq: 20 Jan 2021 12:33

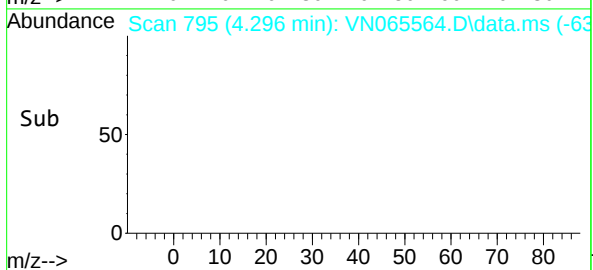
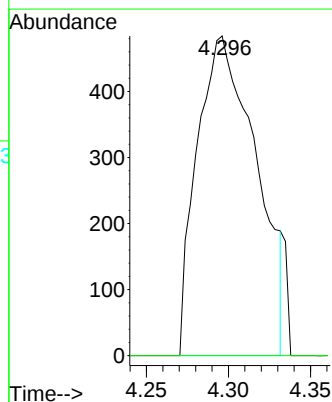
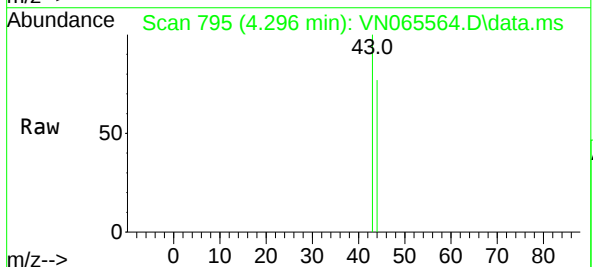
Instrument :
MSVOA_N
ClientSampleId :
MANHOLE

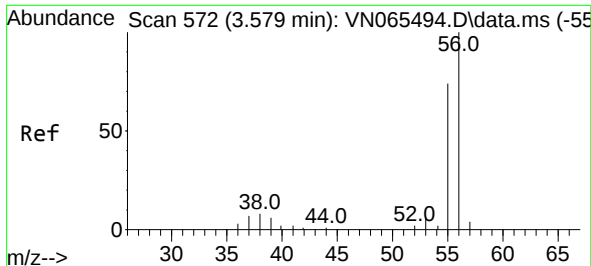
Tgt Ion:128 Resp: 36275
Ion Ratio Lower Upper
128 100
49 131.9 0.0 355.0
130 128.2 0.0 325.5



#12
Methyl Acetate
Concen: 0.62 ug/l
RT: 4.296 min Scan# 795
Delta R.T. 0.003 min
Lab File: VN065564.D
Acq: 20 Jan 2021 12:33

Tgt Ion: 43 Resp: 1207
Ion Ratio Lower Upper
43 100
74 0.0 19.9 29.9#

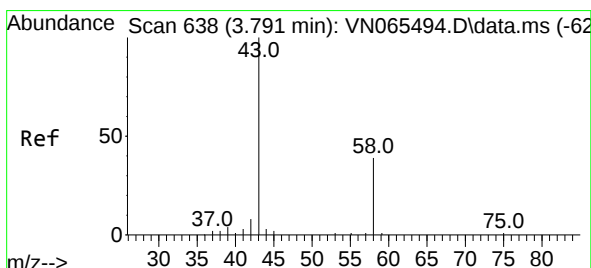
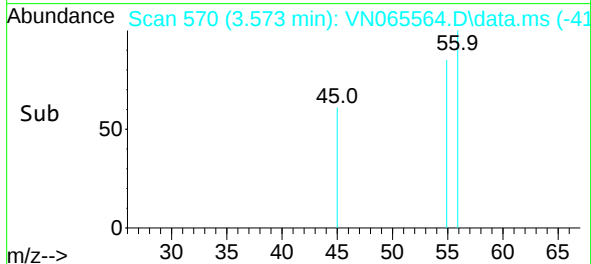
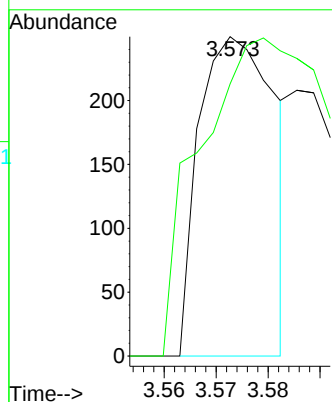
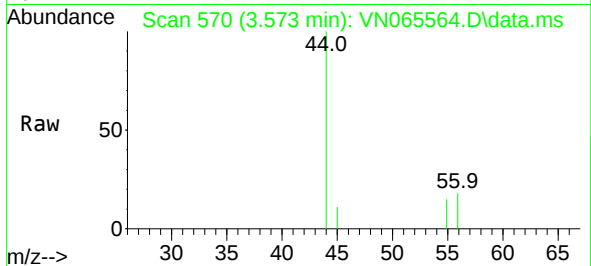




#13
Acrolein
Concen: 0.77 ug/l
RT: 3.573 min Scan# 570
Delta R.T. -0.006 min
Lab File: VN065564.D
Acq: 20 Jan 2021 12:33

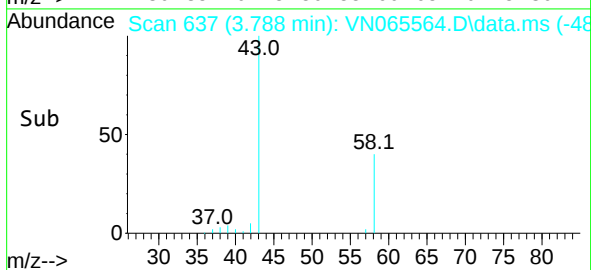
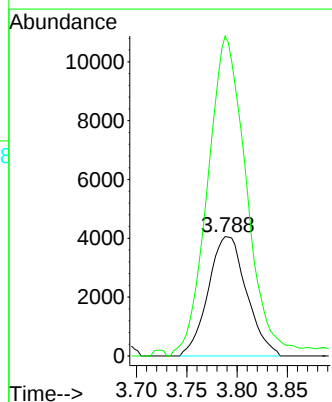
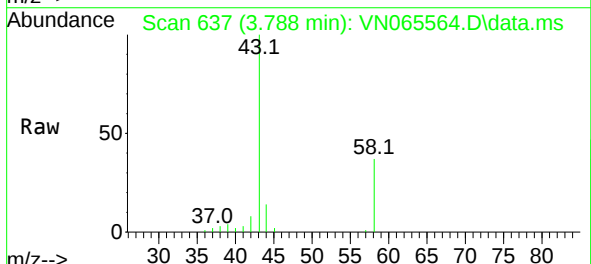
Instrument :
MSVOA_N
ClientSampleId :
MANHOLE

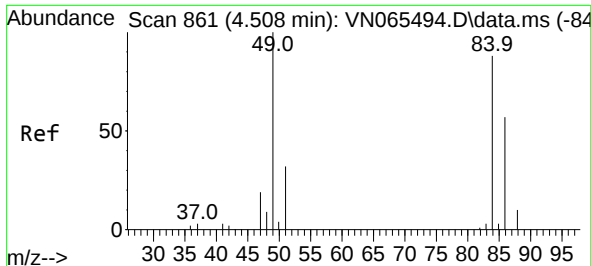
Tgt Ion: 56 Resp: 254
Ion Ratio Lower Upper
56 100
55 133.9 57.7 86.5#



#15
Acetone
Concen: 39.63 ug/l
RT: 3.788 min Scan# 637
Delta R.T. -0.003 min
Lab File: VN065564.D
Acq: 20 Jan 2021 12:33

Tgt Ion: 58 Resp: 10756
Ion Ratio Lower Upper
58 100
43 259.6 203.4 305.0





#18

Methylene Chloride

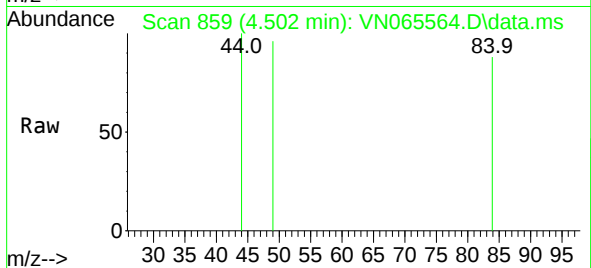
Concen: 0.26 ug/l

RT: 4.502 min Scan# 859

Delta R.T. -0.006 min

Lab File: VN065564.D

Acq: 20 Jan 2021 12:33



Tgt Ion: 84 Resp: 567

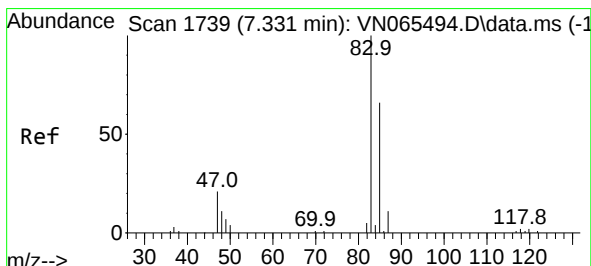
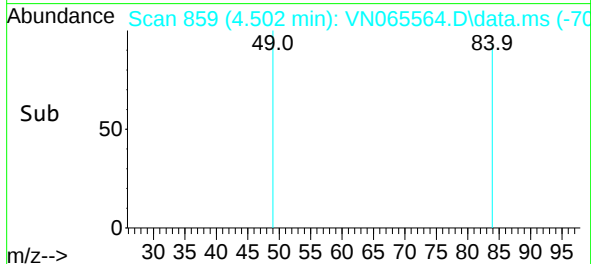
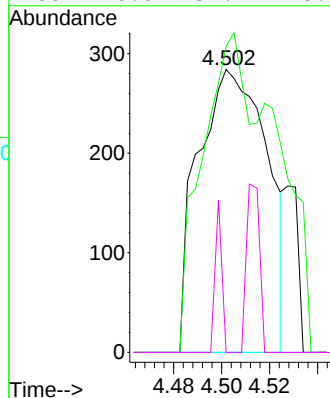
Ion Ratio Lower Upper

84 100

49 108.1 91.3 136.9

51 0.0 28.8 43.2#

86 0.0 52.1 78.1#



#25

Chloroform

Concen: 1.44 ug/l

RT: 7.331 min Scan# 1739

Delta R.T. 0.000 min

Lab File: VN065564.D

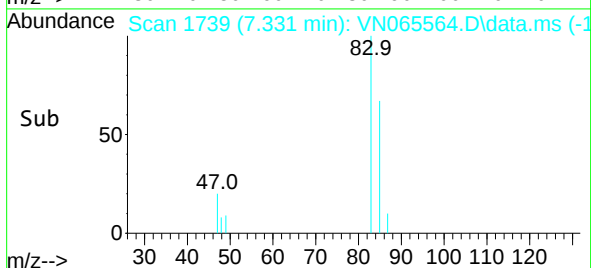
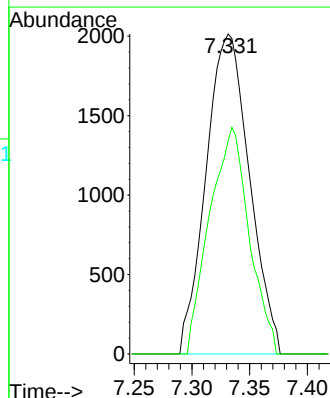
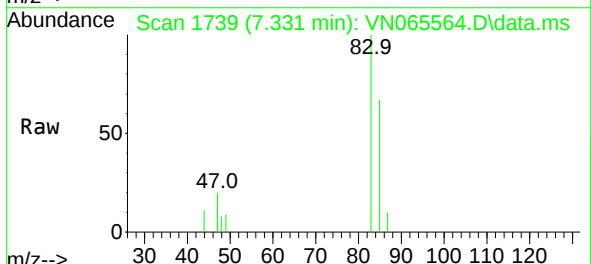
Acq: 20 Jan 2021 12:33

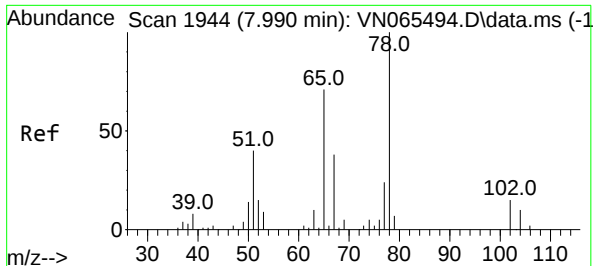
Tgt Ion: 83 Resp: 5267

Ion Ratio Lower Upper

83 100

85 66.8 53.0 79.4



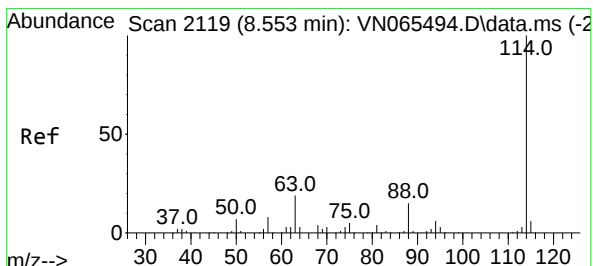
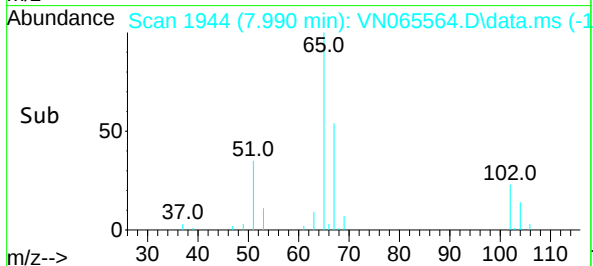
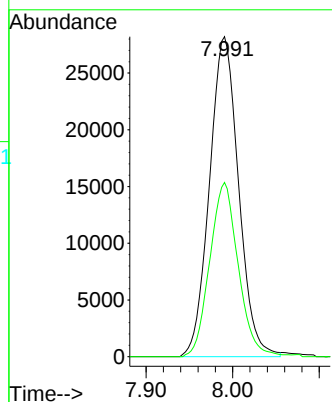
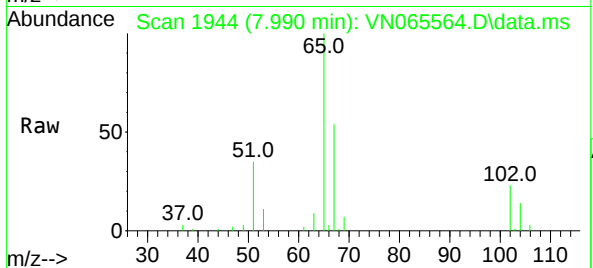


#27

1,2-Dichloroethane-d4
Concen: 29.09 ug/l
RT: 7.990 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VN065564.D
Acq: 20 Jan 2021 12:33

Instrument :
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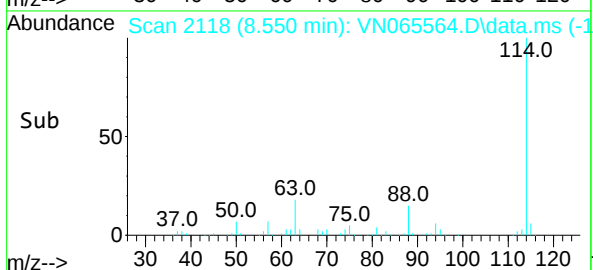
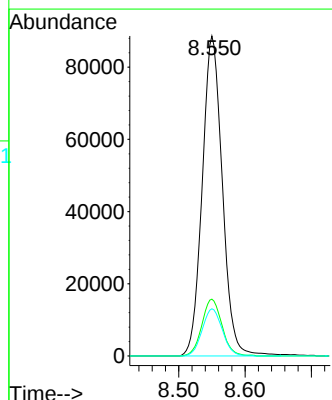
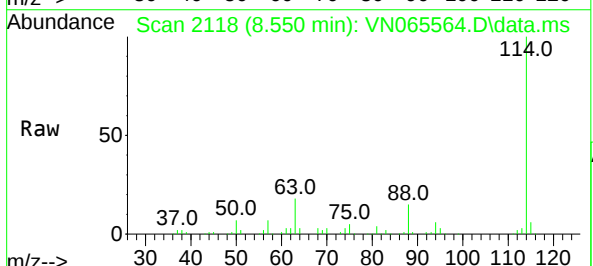
Tgt Ion: 65 Resp: 65929
Ion Ratio Lower Upper
65 100
67 53.2 42.8 64.2

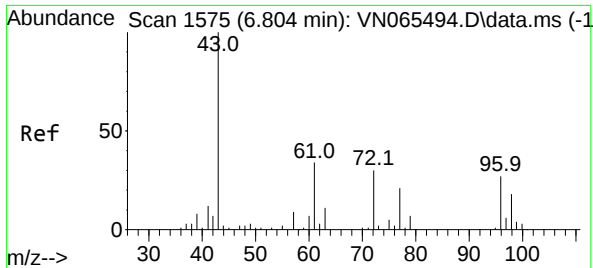


#28

1,4-Difluorobenzene
Concen: 30.00 ug/l
RT: 8.550 min Scan# 2118
Delta R.T. -0.003 min
Lab File: VN065564.D
Acq: 20 Jan 2021 12:33

Tgt Ion: 114 Resp: 187010
Ion Ratio Lower Upper
114 100
63 17.7 14.7 22.1
88 14.8 11.7 17.5

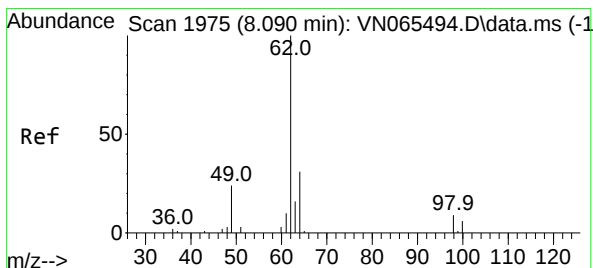
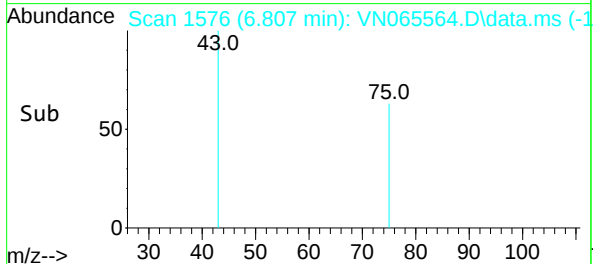
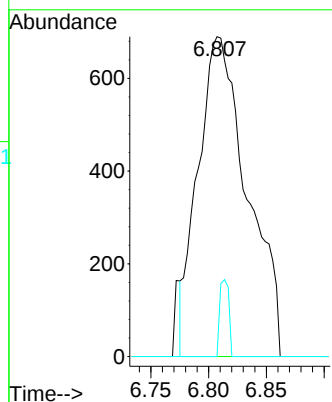
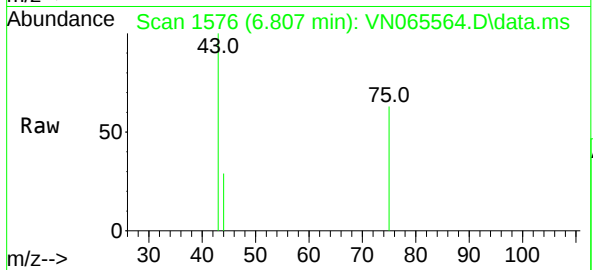




#30
2-Butanone
Concen: 1.92 ug/l
RT: 6.807 min Scan# 1576
Delta R.T. 0.003 min
Lab File: VN065564.D
Acq: 20 Jan 2021 12:33

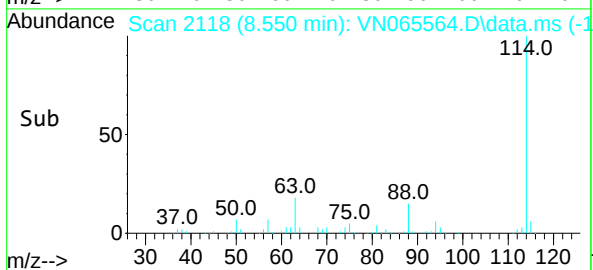
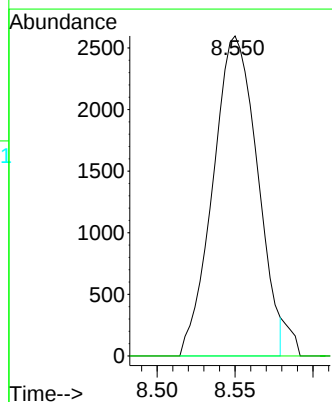
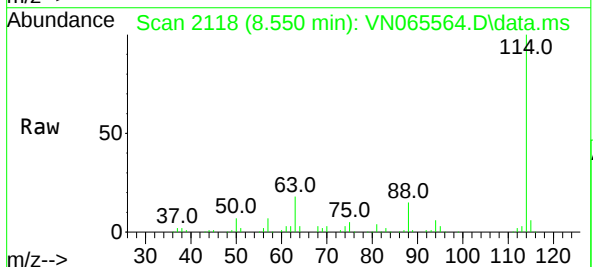
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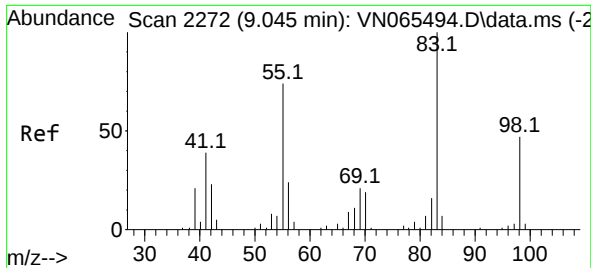
Tgt Ion: 43	Resp:	2055
Ion Ratio	Lower	Upper
43	100	
57	0.0	7.0
72	4.4	23.6



#36
1,2-Dichloroethane
Concen: 1.91 ug/l
RT: 8.550 min Scan# 2118
Delta R.T. 0.460 min
Lab File: VN065564.D
Acq: 20 Jan 2021 12:33

Tgt Ion: 62	Resp:	5150
Ion Ratio	Lower	Upper
62	100	
98	0.0	7.4

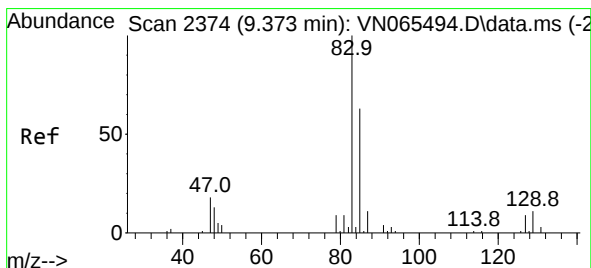
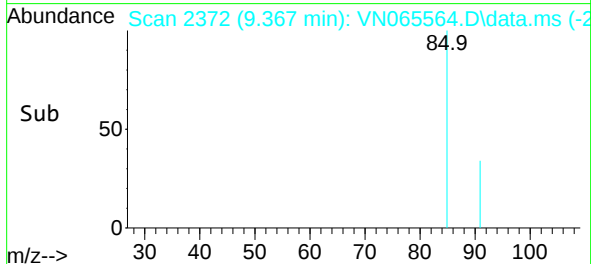
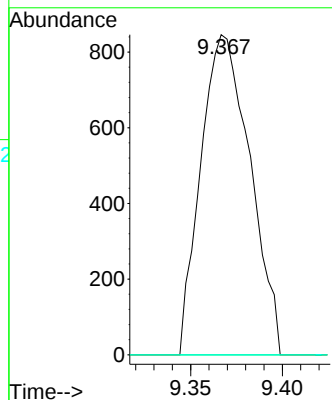
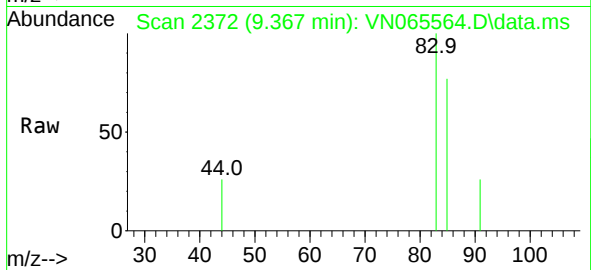




#38
Methylcyclohexane
Concen: 0.51 ug/l
RT: 9.367 min Scan# 2372
Delta R.T. 0.322 min
Lab File: VN065564.D
Acq: 20 Jan 2021 12:33

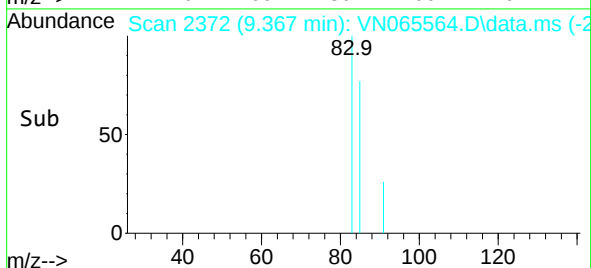
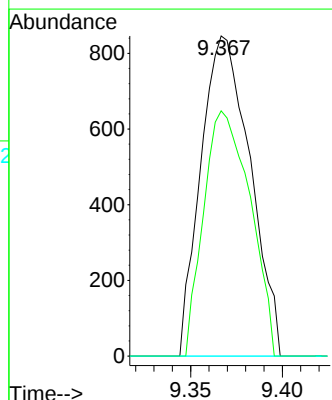
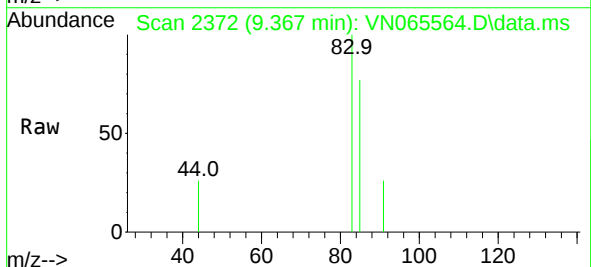
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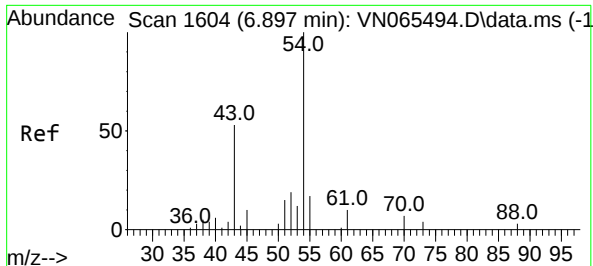
Tgt Ion: 83 Resp: 1581
Ion Ratio Lower Upper
83 100
55 0.0 37.2 111.6#
98 0.0 23.8 71.4#



#41
Bromodichloromethane
Concen: 0.57 ug/l
RT: 9.367 min Scan# 2372
Delta R.T. -0.006 min
Lab File: VN065564.D
Acq: 20 Jan 2021 12:33

Tgt Ion: 83 Resp: 1581
Ion Ratio Lower Upper
83 100
85 76.6 50.7 76.1#
127 0.0 7.5 11.3#





#43

Ethyl Acetate

Concen: 0.90 ug/l

RT: 6.807 min Scan# 1576

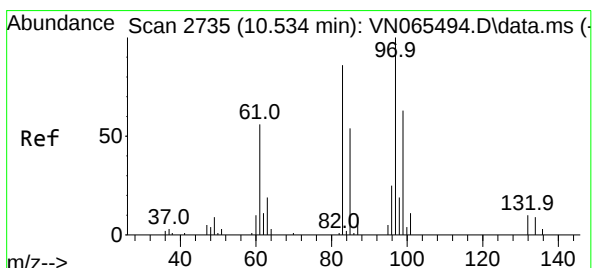
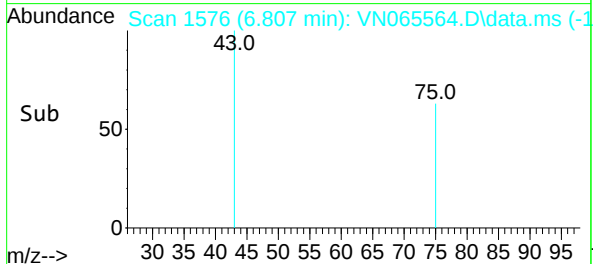
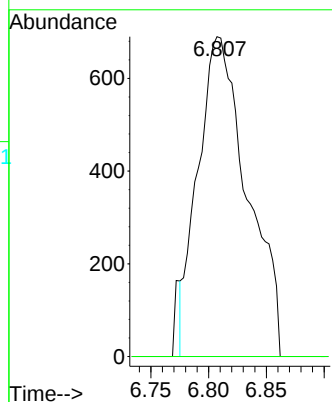
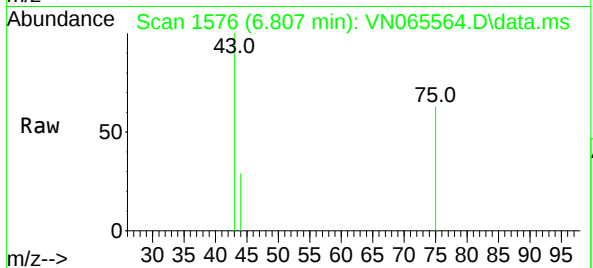
Delta R.T. -0.090 min

Lab File: VN065564.D

Acq: 20 Jan 2021 12:33

Instrument :
MSVOA_N
ClientSampleId :
MANHOLE

Tgt Ion: 43 Resp: 2055
Ion Ratio Lower Upper
43 100
45 0.0 12.9 19.3#



#50

1,1,2-Trichloroethane

Concen: 3.74 ug/l

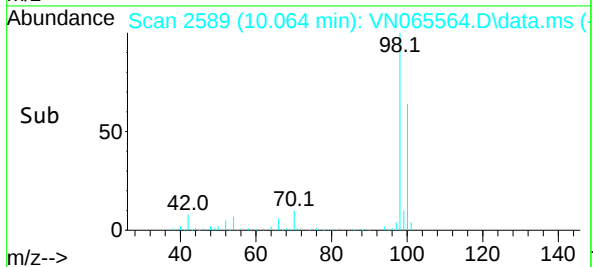
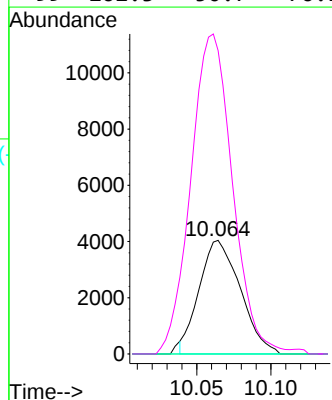
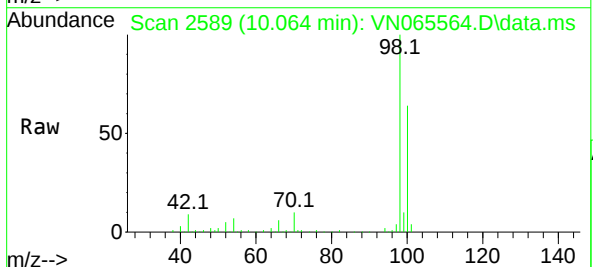
RT: 10.064 min Scan# 2589

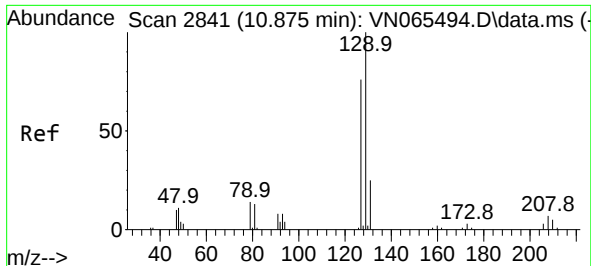
Delta R.T. -0.469 min

Lab File: VN065564.D

Acq: 20 Jan 2021 12:33

Tgt Ion: 97 Resp: 7780
Ion Ratio Lower Upper
97 100
83 0.0 68.4 102.6#
85 0.0 42.8 64.2#
99 262.3 50.7 76.1#

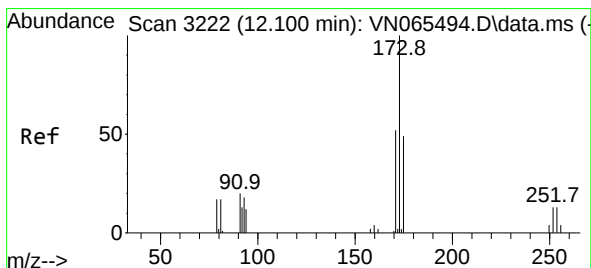
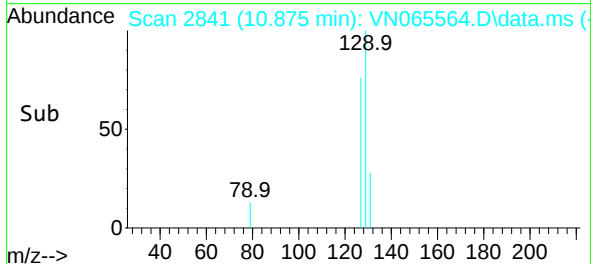
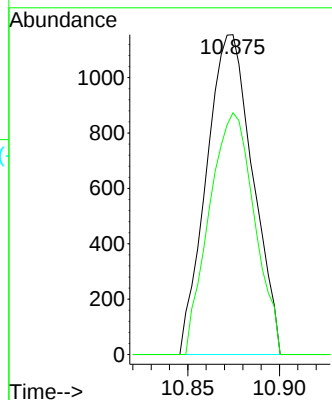
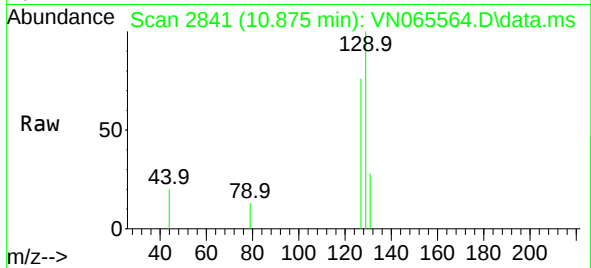




#53
Dibromochloromethane
Concen: 0.88 ug/l
RT: 10.875 min Scan# 2841
Delta R.T. 0.000 min
Lab File: VN065564.D
Acq: 20 Jan 2021 12:33

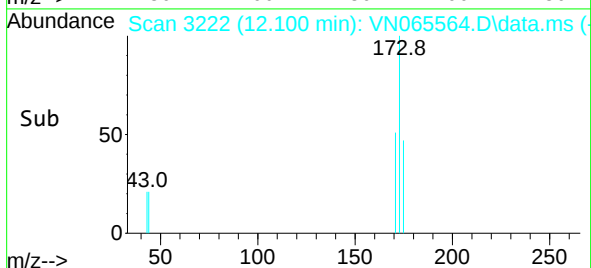
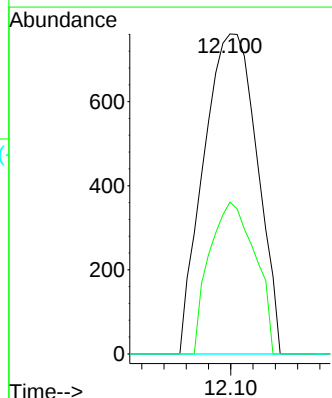
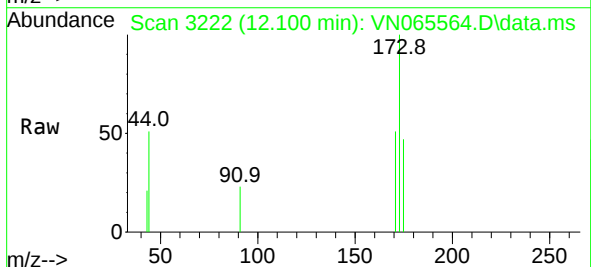
Instrument :
MSVOA_N
ClientSampleId :
MANHOLE

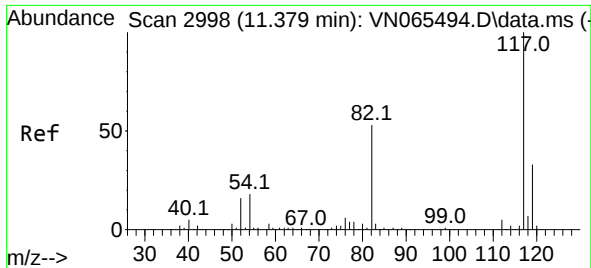
Tgt Ion:129 Resp: 2031
Ion Ratio Lower Upper
129 100
127 73.8 38.9 116.6



#56
Bromoform
Concen: 0.71 ug/l
RT: 12.100 min Scan# 3222
Delta R.T. 0.000 min
Lab File: VN065564.D
Acq: 20 Jan 2021 12:33

Tgt Ion:173 Resp: 1267
Ion Ratio Lower Upper
173 100
175 40.6 38.2 57.4
254 0.0 9.8 14.8#

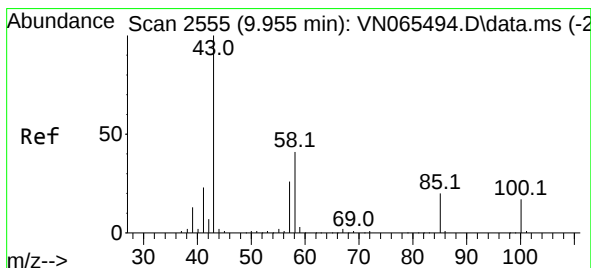
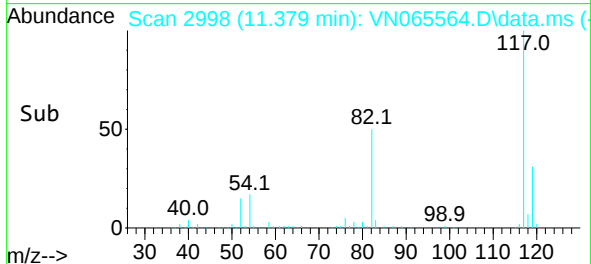
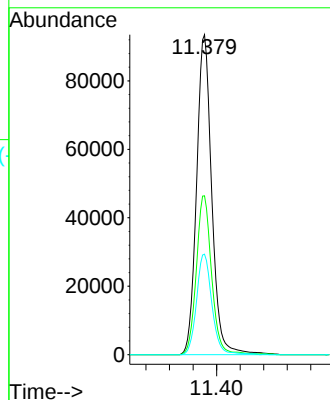
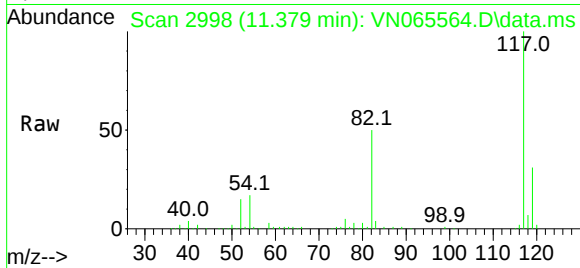




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.379 min Scan# 2998
Delta R.T. 0.000 min
Lab File: VN065564.D
Acq: 20 Jan 2021 12:33

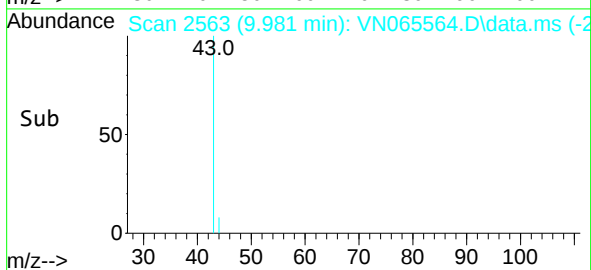
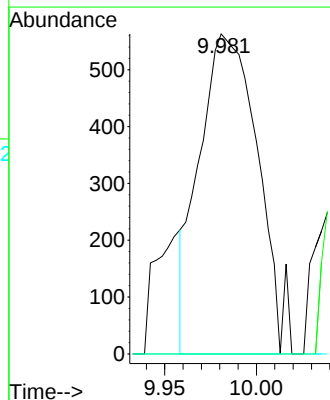
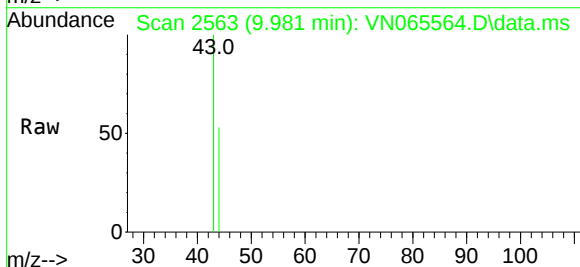
Instrument :
MSVOA_N
ClientSampleId :
MANHOLE

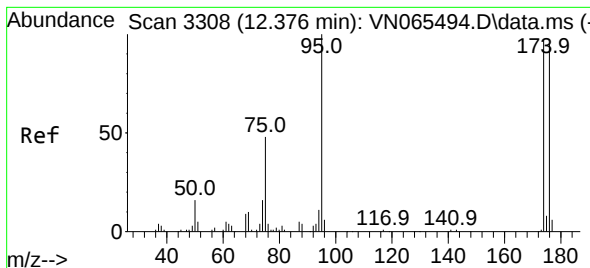
Tgt Ion:	117	Resp:	167661
Ion	Ratio	Lower	Upper
117	100		
82	49.2	41.3	61.9
119	31.5	25.7	38.5



#58
4-Methyl-2-Pentanone
Concen: 0.55 ug/l
RT: 9.981 min Scan# 2563
Delta R.T. 0.026 min
Lab File: VN065564.D
Acq: 20 Jan 2021 12:33

Tgt Ion:	43	Resp:	1226
Ion	Ratio	Lower	Upper
43	100		
58	0.0	32.7	49.1#
85	0.0	16.0	24.0#

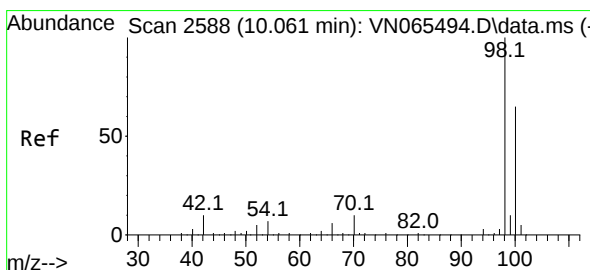
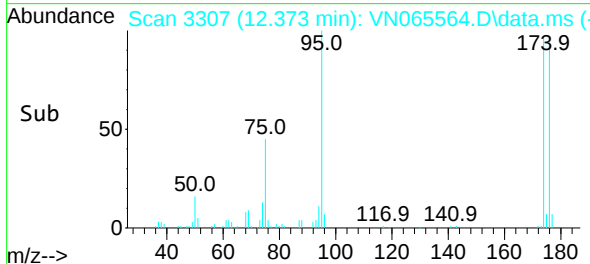
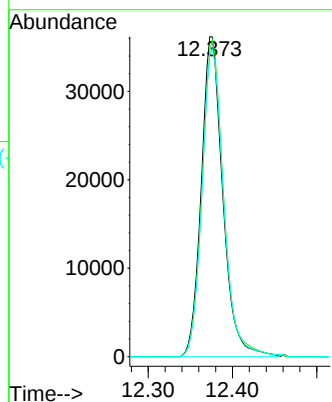
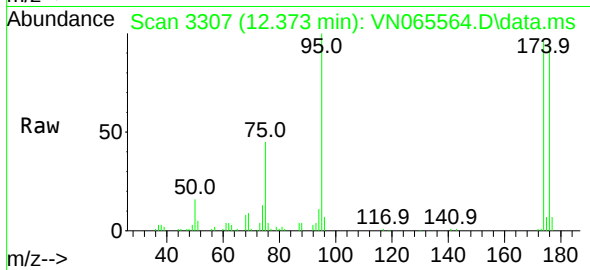




#60
4-Bromofluorobenzene
Concen: 25.35 ug/l
RT: 12.373 min Scan# 3307
Delta R.T. -0.003 min
Lab File: VN065564.D
Acq: 20 Jan 2021 12:33

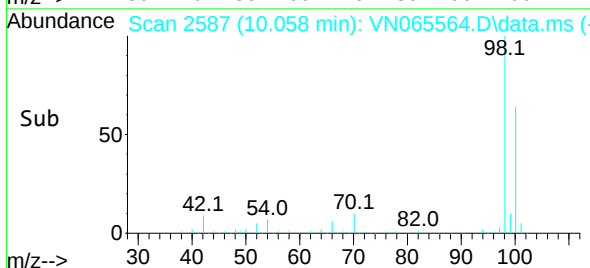
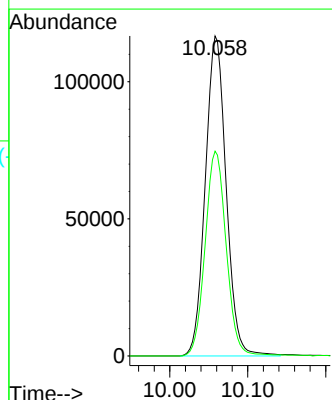
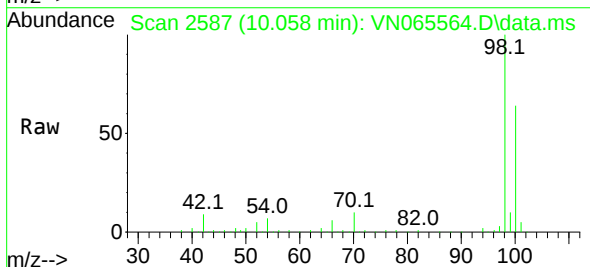
Instrument :
MSVOA_N
ClientSampleId :
MANHOLE

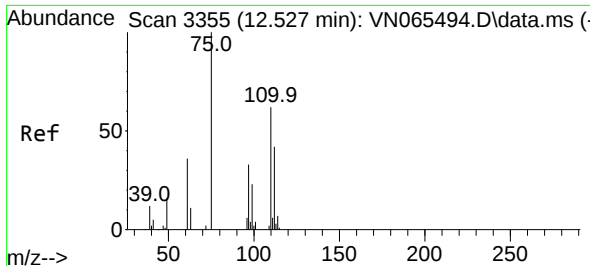
Tgt Ion: 95 Resp: 64363
Ion Ratio Lower Upper
95 100
174 99.2 77.0 115.6
176 97.1 75.8 113.6



#63
Toluene-d8
Concen: 29.54 ug/l
RT: 10.058 min Scan# 2587
Delta R.T. -0.003 min
Lab File: VN065564.D
Acq: 20 Jan 2021 12:33

Tgt Ion: 98 Resp: 216786
Ion Ratio Lower Upper
98 100
100 64.3 51.9 77.9

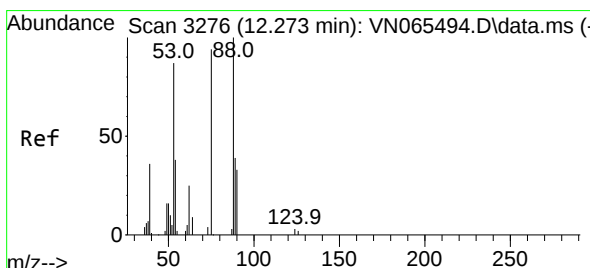
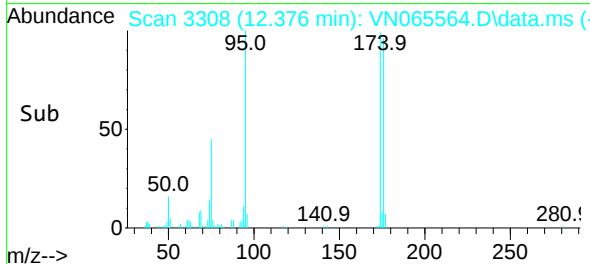
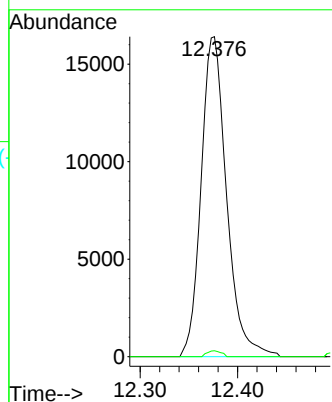
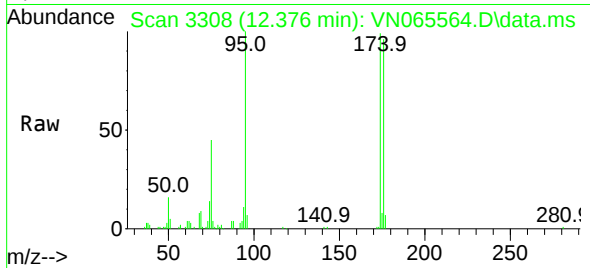




#72
1,2,3-Trichloropropane
Concen: 11.66 ug/l
RT: 12.376 min Scan# 3308
Delta R.T. -0.151 min
Lab File: VN065564.D
Acq: 20 Jan 2021 12:33

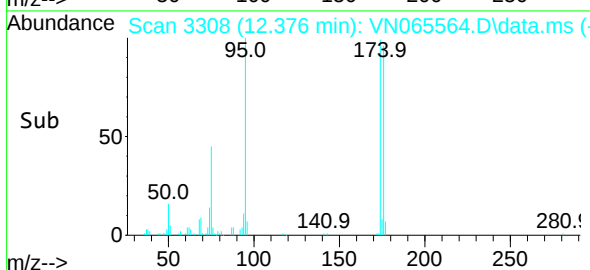
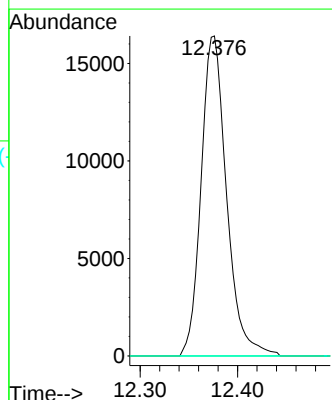
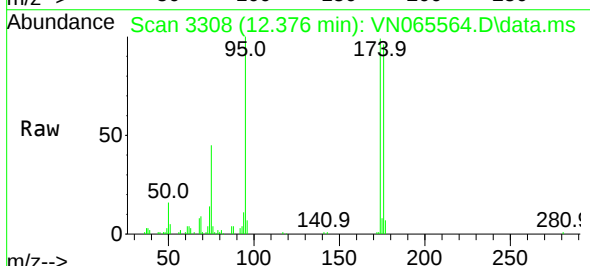
Instrument :
MSVOA_N
ClientSampleId :
MANHOLE

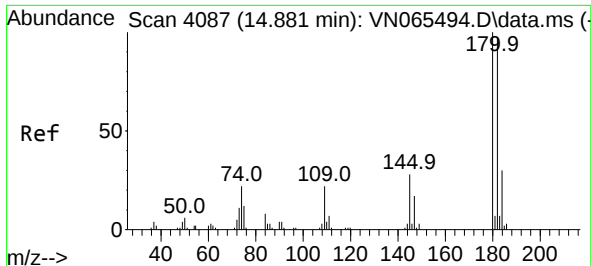
Tgt Ion: 75 Resp: 29760
Ion Ratio Lower Upper
75 100
77 1.0 0.0 366.4



#77
t-1,4-Dichloro-2-butene
Concen: 33.17 ug/l
RT: 12.376 min Scan# 3308
Delta R.T. 0.103 min
Lab File: VN065564.D
Acq: 20 Jan 2021 12:33

Tgt Ion: 75 Resp: 29760
Ion Ratio Lower Upper
75 100
53 0.0 44.9 134.5#
89 0.0 21.3 64.0#

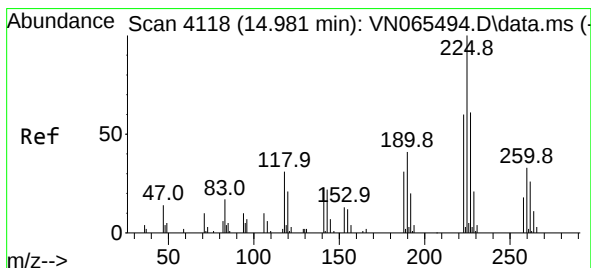
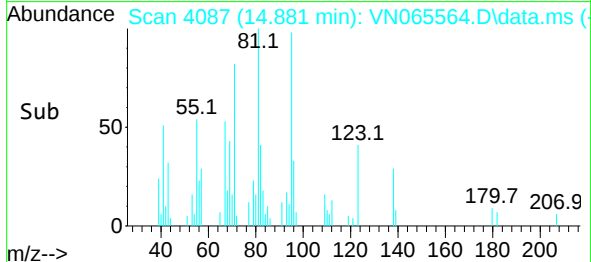
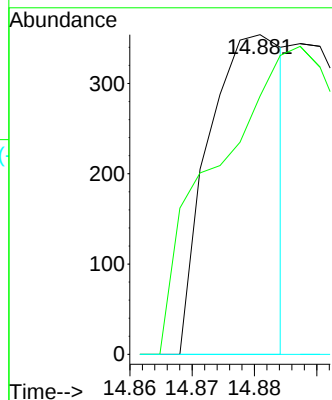
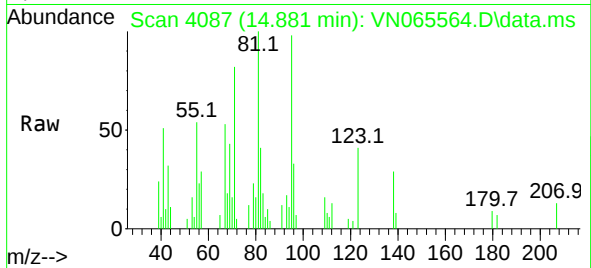




#89
1,2,4-Trichlorobenzene
Concen: 7.80 ug/l
RT: 14.881 min Scan# 4087
Delta R.T. -0.000 min
Lab File: VN065564.D
Acq: 20 Jan 2021 12:33

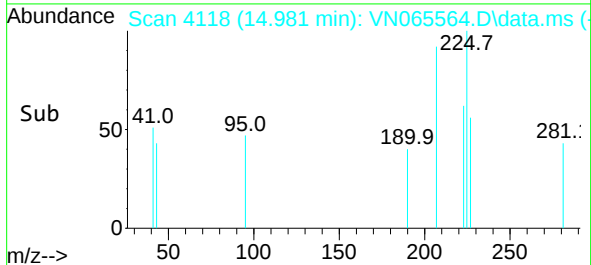
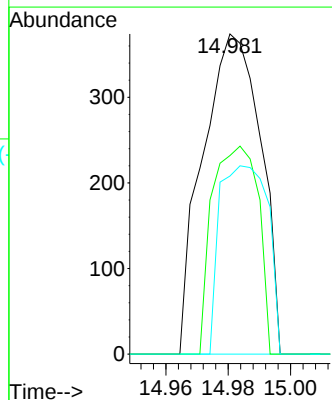
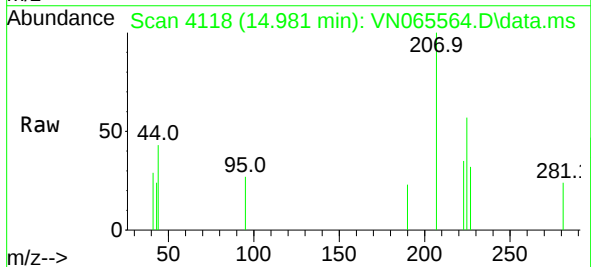
Instrument :
MSVOA_N
ClientSampleId :
MANHOLE

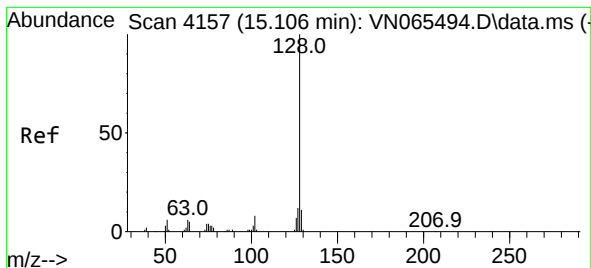
Tgt Ion:180 Resp: 296
Ion Ratio Lower Upper
180 100
182 189.9 78.5 117.7#
145 0.0 23.8 35.6#



#90
Hexachlorobutadiene
Concen: 0.31 ug/l
RT: 14.981 min Scan# 4118
Delta R.T. -0.000 min
Lab File: VN065564.D
Acq: 20 Jan 2021 12:33

Tgt Ion:225 Resp: 482
Ion Ratio Lower Upper
225 100
223 51.5 0.0 122.0
227 0.0 0.0 126.4

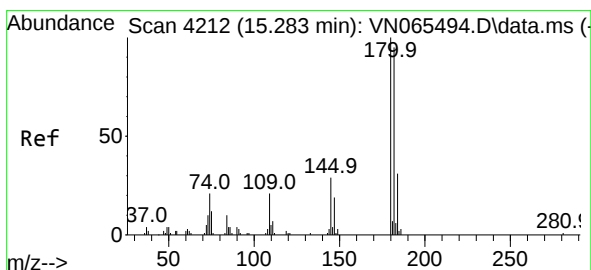
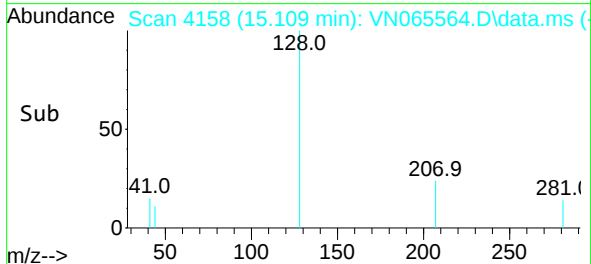
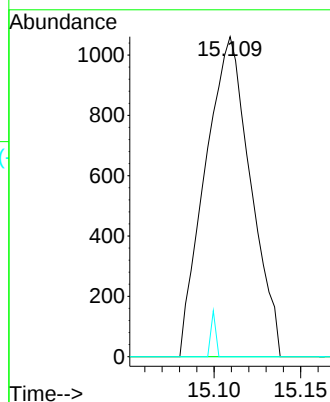
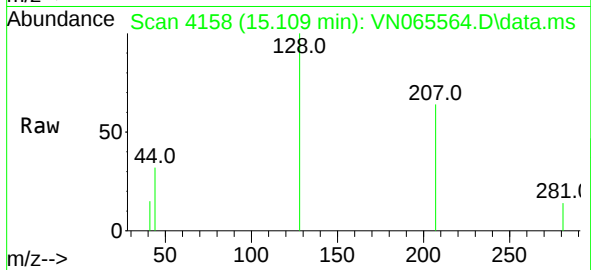




#91
Naphthalene
Concen: 9.31 ug/l
RT: 15.109 min Scan# 4158
Delta R.T. 0.003 min
Lab File: VN065564.D
Acq: 20 Jan 2021 12:33

Instrument :
MSVOA_N
ClientSampleId :
MANHOLE

Tgt Ion:128 Resp: 1928
Ion Ratio Lower Upper
128 100
127 0.0 10.1 15.1#
129 0.0 8.6 12.8#



#92
1,2,3-Trichlorobenzene
Concen: 0.33 ug/l
RT: 15.286 min Scan# 4213
Delta R.T. 0.003 min
Lab File: VN065564.D
Acq: 20 Jan 2021 12:33

Tgt Ion:180 Resp: 738
Ion Ratio Lower Upper
180 100
182 95.7 0.0 190.4
145 0.0 0.0 57.8

