

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021021\
 Data File : VN065803.D
 Acq On : 10 Feb 2021 18:26
 Operator : JC/MD
 Sample : M1321-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Feb 11 01:34:45 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 03 14:50:04 2021
 Response via : Initial Calibration

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

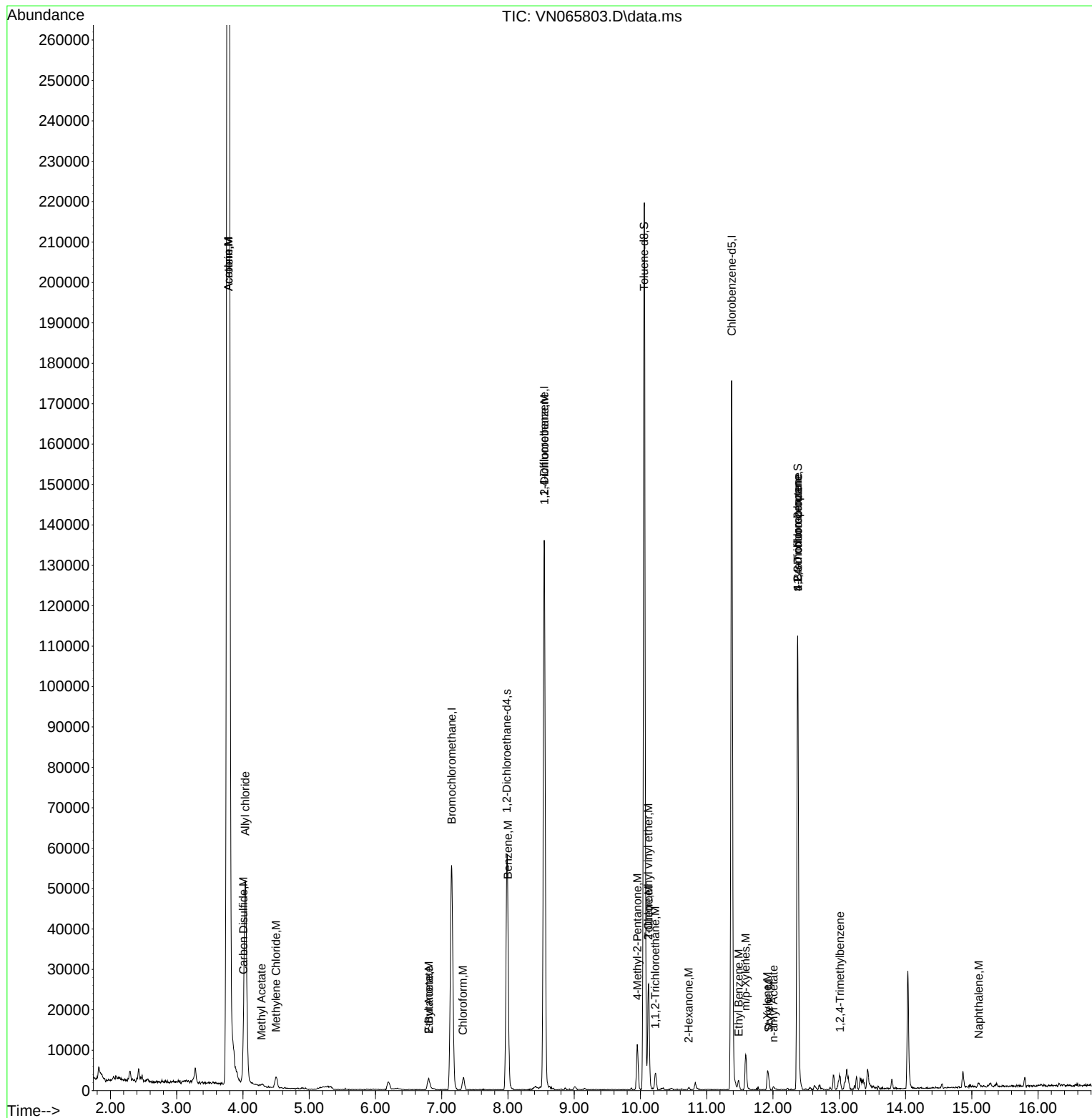
Internal Standards						
1) Bromochloromethane	7.151	128	23528	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.547	114	131679	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.376	117	113073	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.984	65	48692	29.84	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.47%		
60) 4-Bromofluorobenzene	12.373	95	46452	25.25	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	84.17%		
63) Toluene-d8	10.055	98	162440	29.88	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.60%		
Target Compounds						
					Qvalue	
12) Methyl Acetate	4.280	43	435	0.26	ug/l #	50
13) Acrolein	3.782	56	97	0.43	ug/l #	1
15) Acetone	3.779	58	388076	1712.71	ug/l	89
16) Carbon Disulfide	4.007	76	5033	1.17	ug/l	98
17) Allyl chloride	4.036	41	7559	2.90	ug/l #	79
18) Methylene Chloride	4.499	84	2167	1.34	ug/l	98
25) Chloroform	7.319	83	3475	1.32	ug/l	85
30) 2-Butanone	6.804	43	5620	5.90	ug/l #	90
34) Benzene	8.000	78	4222	0.64	ug/l #	1
36) 1,2-Dichloroethane	8.550	62	3594	1.82	ug/l #	74
43) Ethyl Acetate	6.804	43	5620	2.88	ug/l #	62
47) n-amyl Acetate	12.007	43	570	0.20	ug/l #	48
50) 1,1,2-Trichloroethane	10.225	97	4281	2.89	ug/l #	18
55) 2-Chloroethyl vinyl ether	10.119	63	1244	1.17	ug/l #	1
58) 4-Methyl-2-Pentanone	9.952	43	8347	4.44	ug/l	96
59) 2-Hexanone	10.727	43	519	0.39	ug/l #	68
62) Toluene	10.122	91	20866	3.16	ug/l	100
66) Ethyl Benzene	11.482	91	2314	0.33	ug/l	98
67) m/p-Xylenes	11.589	106	3249	1.23	ug/l	92
68) o-Xylene	11.913	106	1469	0.57	ug/l	98
69) Styrene	11.936	104	1276	0.31	ug/l #	85
72) 1,2,3-Trichloropropane	12.373	75	20277	10.70	ug/l	1
77) t-1,4-Dichloro-2-butene	12.373	75	20277	27.42	ug/l #	14
80) 1,2,4-Trimethylbenzene	13.010	105	2250	0.41	ug/l	86
91) Naphthalene	15.106	128	1702	0.39	ug/l #	70

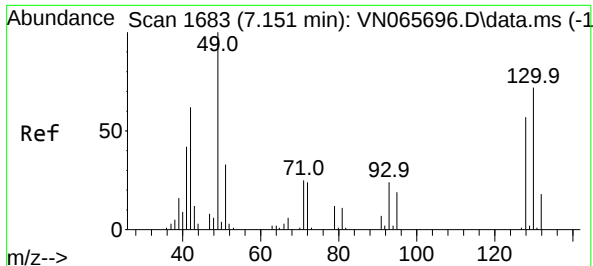
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Feb 03 14:50:04 2021
Response via : Initial Calibration

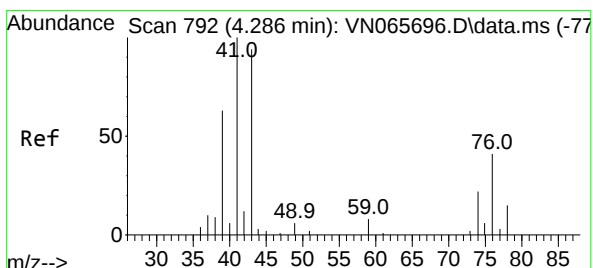
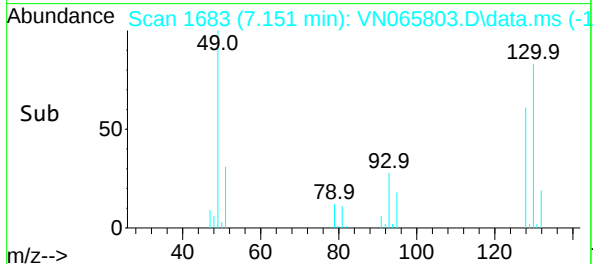
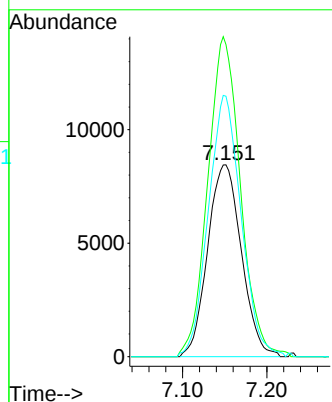
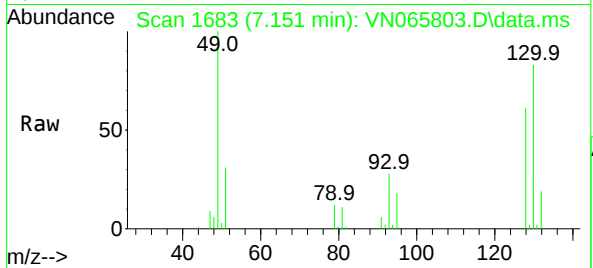




#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 7.151 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

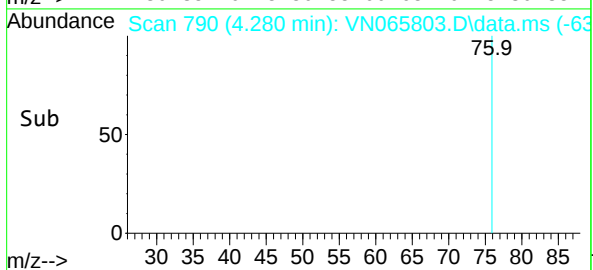
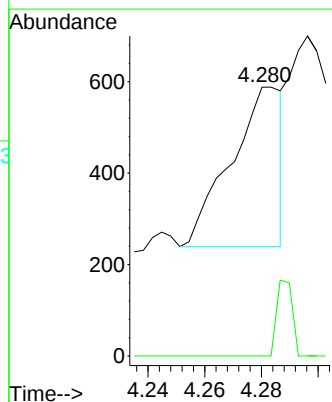
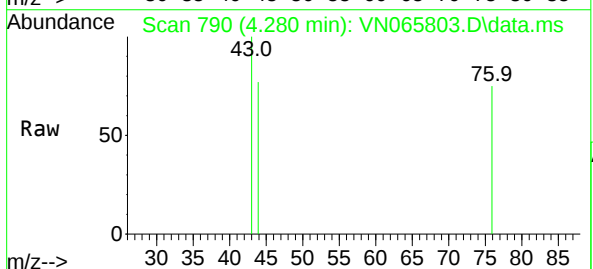
Instrument :
MSVOA_D
ClientSampled :

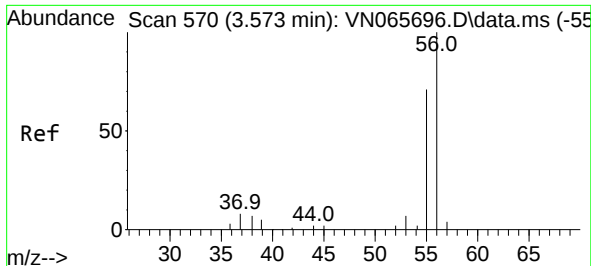
Tgt Ion:128 Resp: 23528
Ion Ratio Lower Upper
128 100
49 160.9 0.0 355.0
130 132.3 0.0 325.5



#12
Methyl Acetate
Concen: 0.26 ug/l
RT: 4.280 min Scan# 790
Delta R.T. -0.006 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

Tgt Ion: 43 Resp: 435
Ion Ratio Lower Upper
43 100
74 0.0 19.9 29.9#

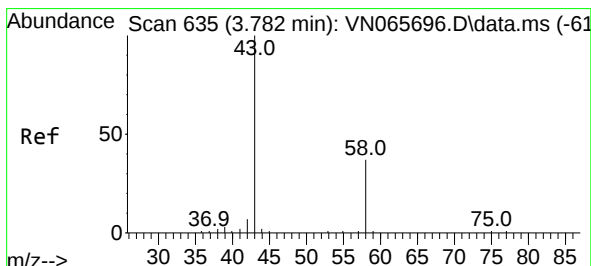
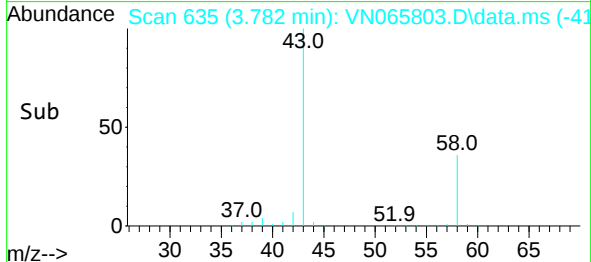
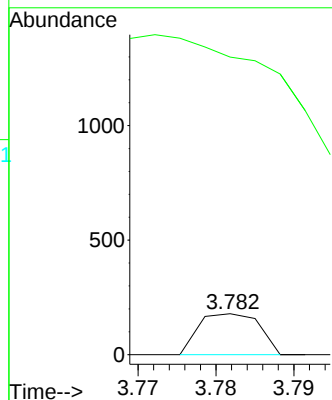
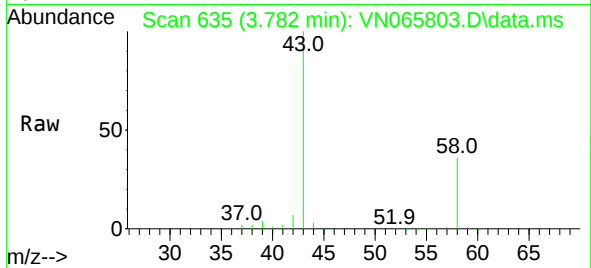




#13
Acrolein
Concen: 0.43 ug/l
RT: 3.782 min Scan# 635
Delta R.T. 0.209 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

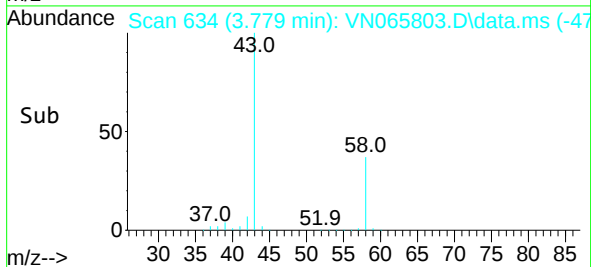
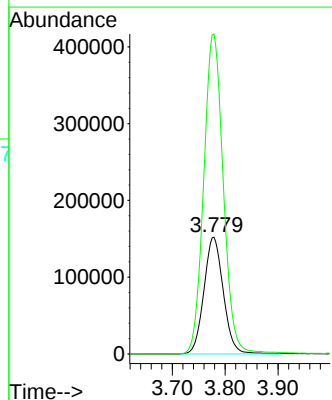
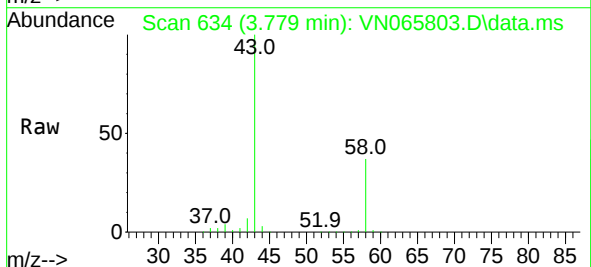
Instrument :
MSVOA_D
ClientSampled :

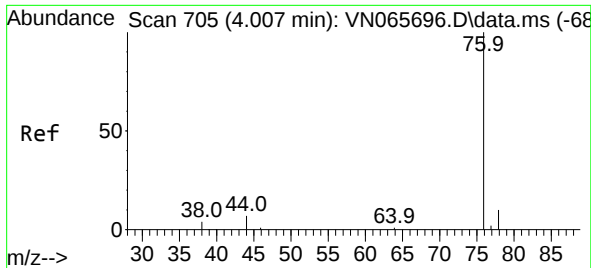
Tgt Ion: 56 Resp: 97
Ion Ratio Lower Upper
56 100
55 3882.5 57.7 86.5#



#15
Acetone
Concen: 1712.71 ug/l
RT: 3.779 min Scan# 634
Delta R.T. -0.003 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

Tgt Ion: 58 Resp: 388076
Ion Ratio Lower Upper
58 100
43 273.7 203.4 305.0

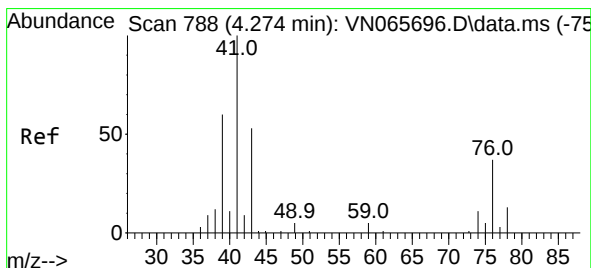
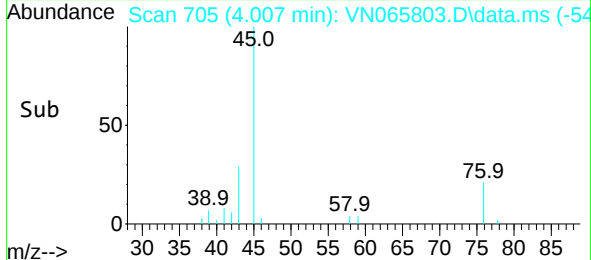
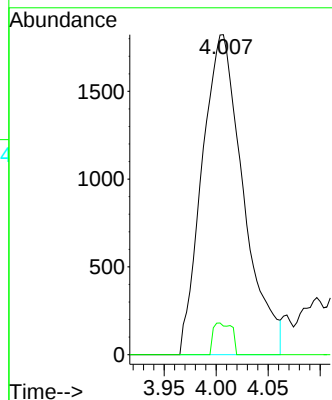
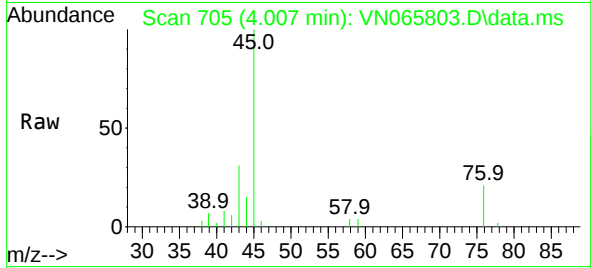




#16
Carbon Disulfide
Concen: 1.17 ug/l
RT: 4.007 min Scan# 705
Delta R.T. 0.000 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

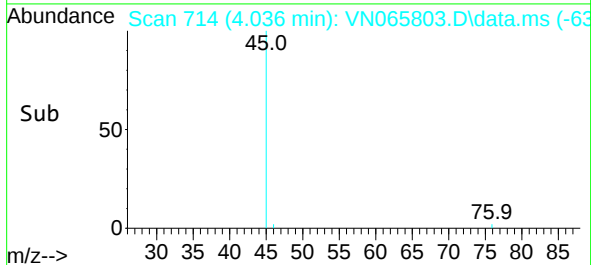
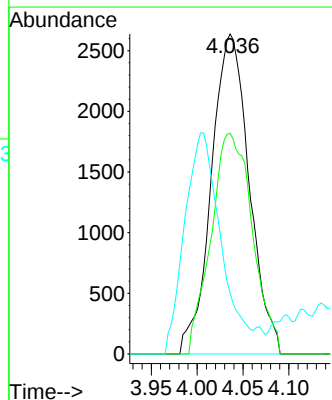
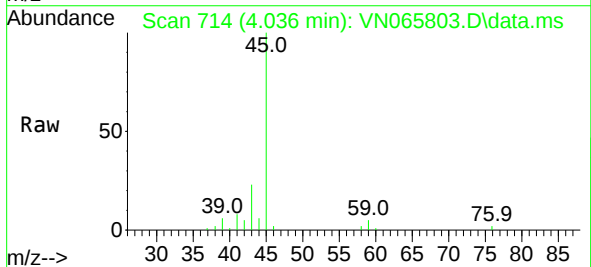
Instrument :
MSVOA_D
ClientSampled :

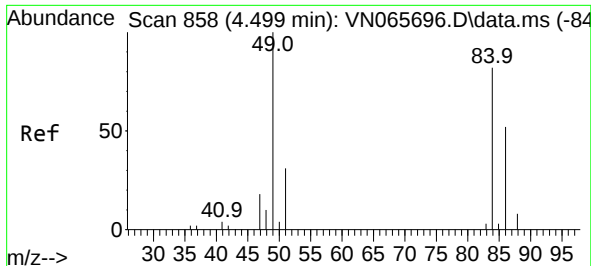
Tgt Ion: 76 Resp: 5033
Ion Ratio Lower Upper
76 100
78 8.9 7.8 11.8



#17
Allyl chloride
Concen: 2.90 ug/l
RT: 4.036 min Scan# 714
Delta R.T. -0.238 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

Tgt Ion: 41 Resp: 7559
Ion Ratio Lower Upper
41 100
39 69.0 33.5 100.5
76 8.8 20.3 60.8#





#18

Methylene Chloride

Concen: 1.34 ug/l

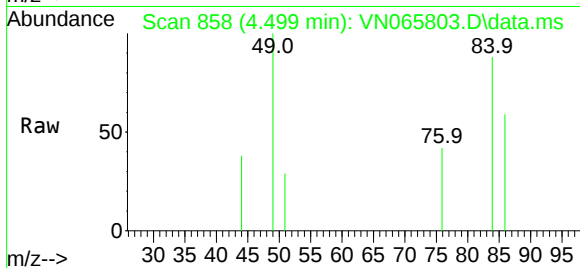
RT: 4.499 min Scan# 858

Delta R.T. 0.000 min

Lab File: VN065803.D

Acq: 10 Feb 2021 18:26

Instrument :
MSVOA_D
ClientSampled :



Tgt Ion: 84 Resp: 2167

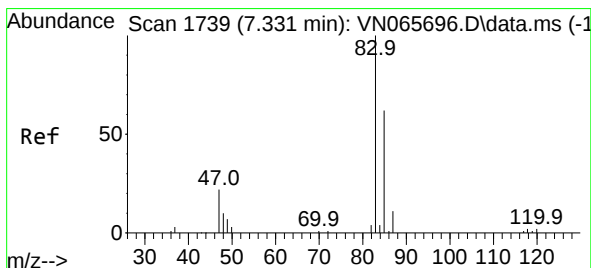
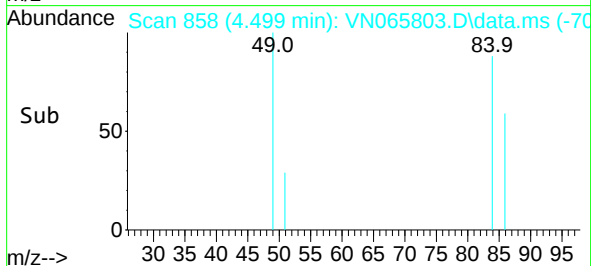
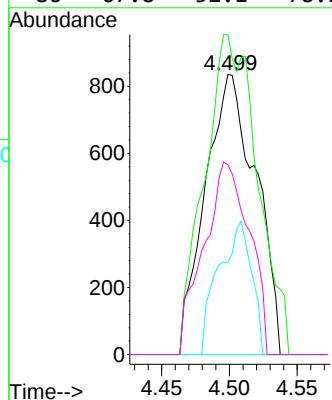
Ion Ratio Lower Upper

84 100

49 114.3 91.3 136.9

51 32.9 28.8 43.2

86 67.8 52.1 78.1



#25

Chloroform

Concen: 1.32 ug/l

RT: 7.319 min Scan# 1735

Delta R.T. -0.013 min

Lab File: VN065803.D

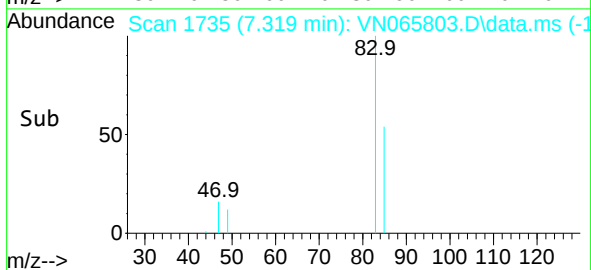
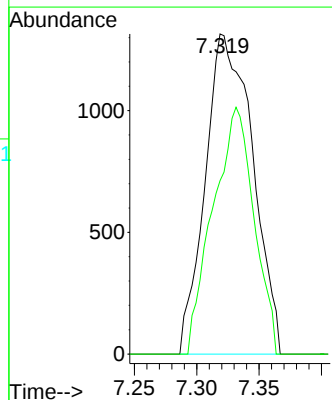
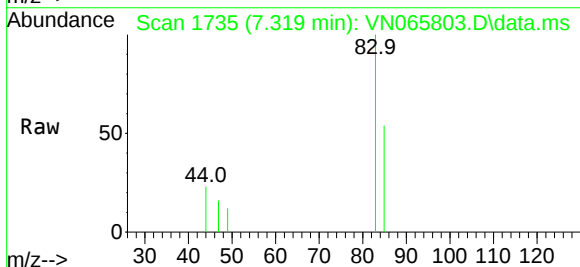
Acq: 10 Feb 2021 18:26

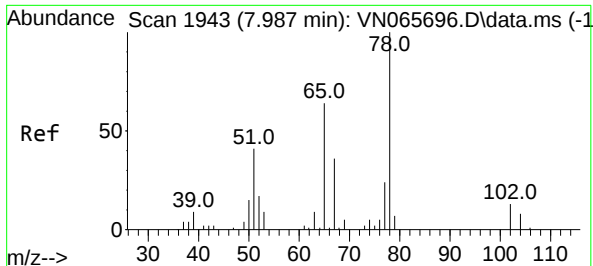
Tgt Ion: 83 Resp: 3475

Ion Ratio Lower Upper

83 100

85 54.1 53.0 79.4





#27

1,2-Dichloroethane-d4

Concen: 29.84 ug/l

RT: 7.984 min Scan# 1942

Delta R.T. -0.003 min

Lab File: VN065803.D

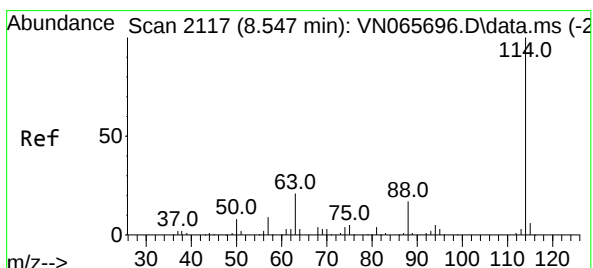
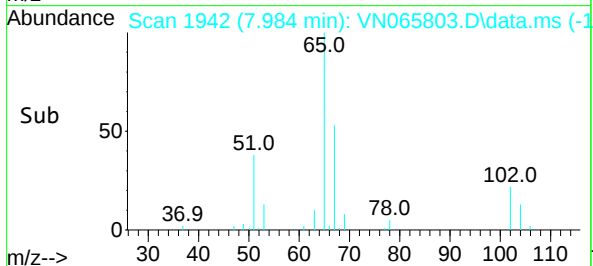
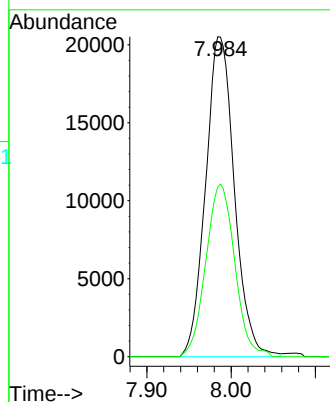
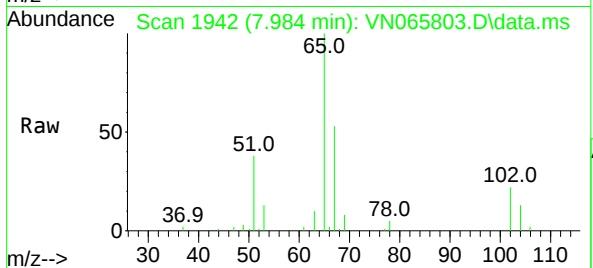
Acq: 10 Feb 2021 18:26

Tgt Ion: 65 Resp: 48692

Ion Ratio Lower Upper

65 100

67 54.1 42.8 64.2



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.547 min Scan# 2117

Delta R.T. 0.000 min

Lab File: VN065803.D

Acq: 10 Feb 2021 18:26

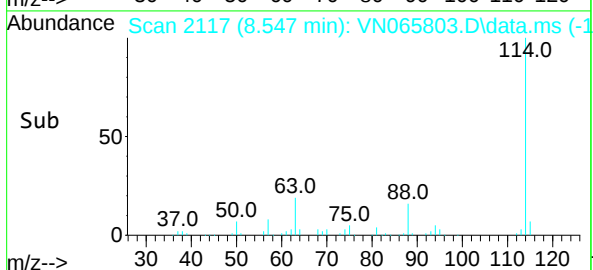
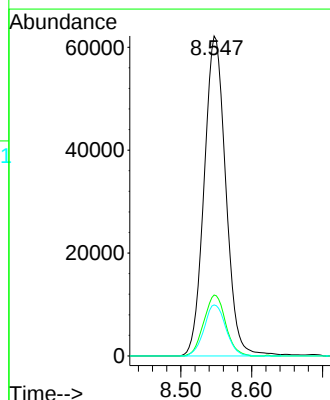
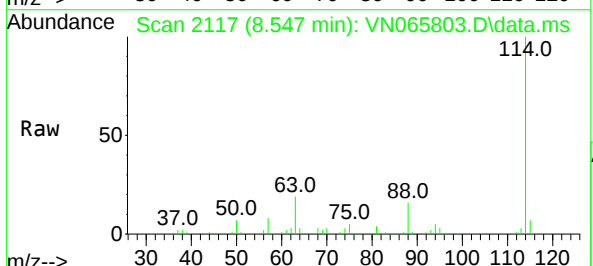
Tgt Ion: 114 Resp: 131679

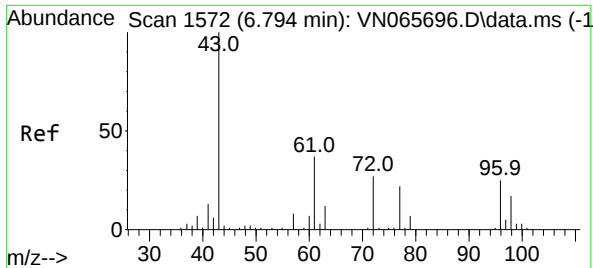
Ion Ratio Lower Upper

114 100

63 19.2 14.7 22.1

88 16.0 11.7 17.5

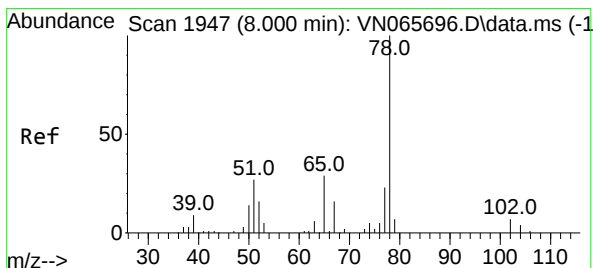
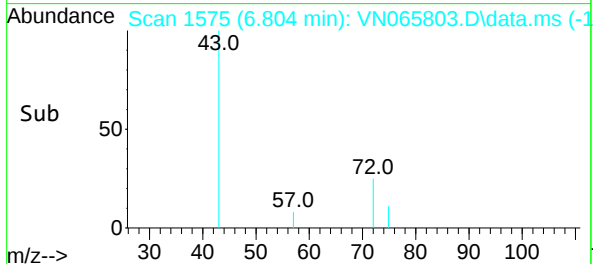
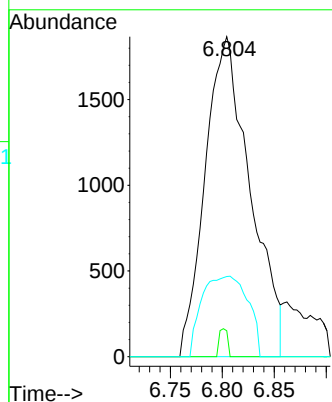
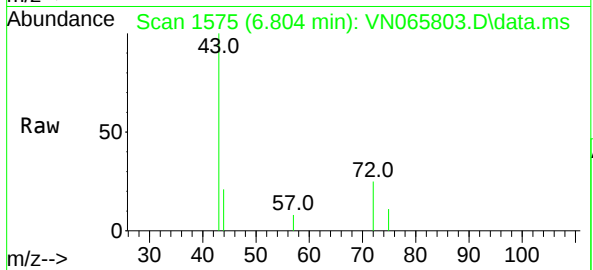




#30
2-Butanone
Concen: 5.90 ug/l
RT: 6.804 min Scan# 1575
Delta R.T. 0.010 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

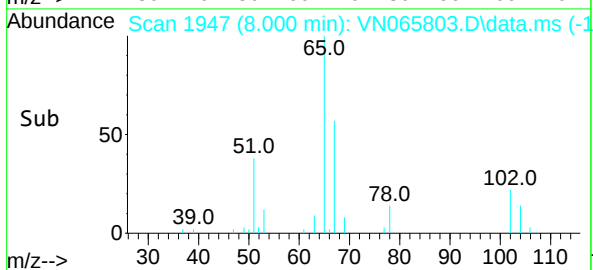
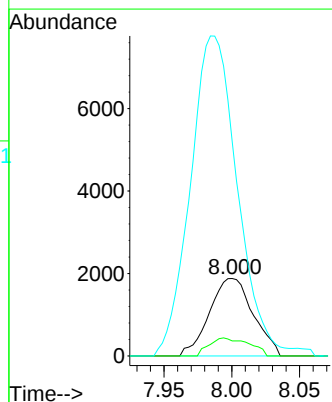
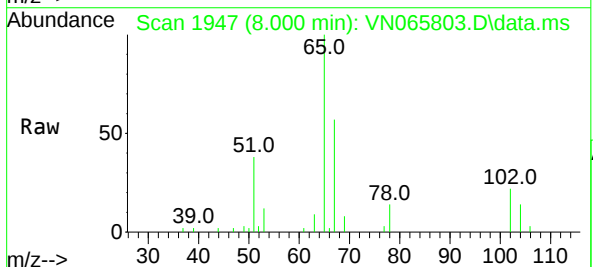
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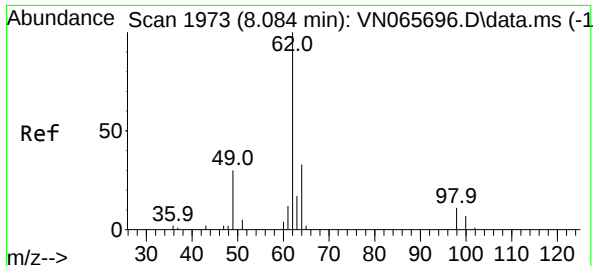
Tgt Ion: 43 Resp: 5620
Ion Ratio Lower Upper
43 100
57 1.6 7.0 10.4#
72 25.6 23.6 35.4



#34
Benzene
Concen: 0.64 ug/l
RT: 8.000 min Scan# 1947
Delta R.T. 0.000 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

Tgt Ion: 78 Resp: 4222
Ion Ratio Lower Upper
78 100
77 19.5 19.0 28.6
51 265.3 22.1 33.1#

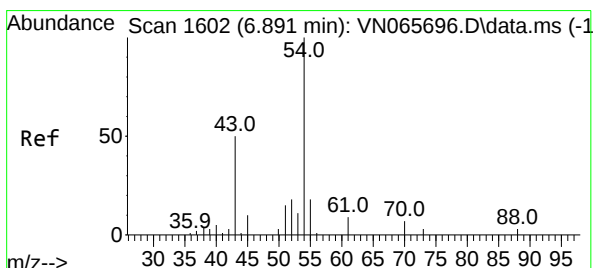
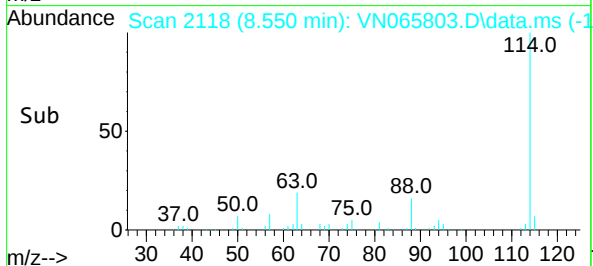
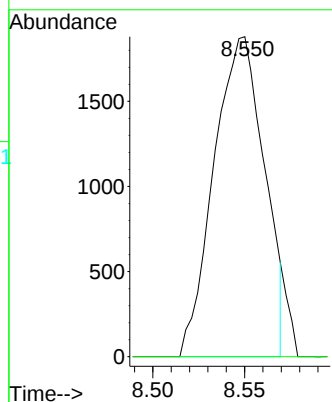
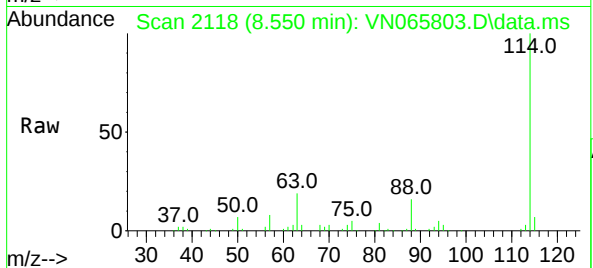




#36
1,2-Dichloroethane
Concen: 1.82 ug/l
RT: 8.550 min Scan# 2118
Delta R.T. 0.466 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

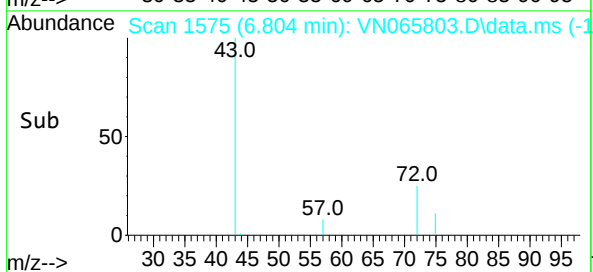
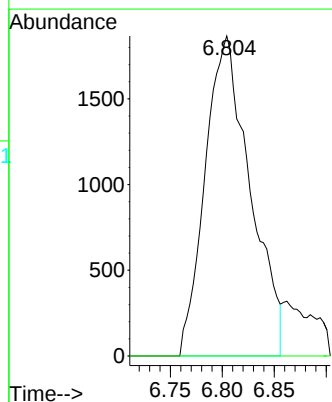
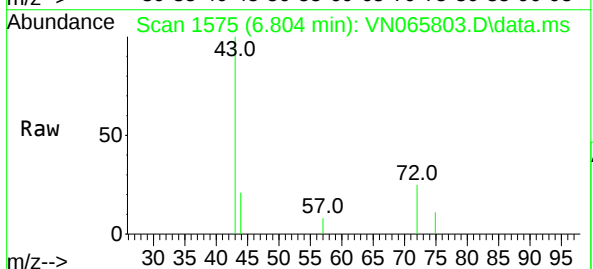
Instrument :
MSVOA_D
ClientSampled :

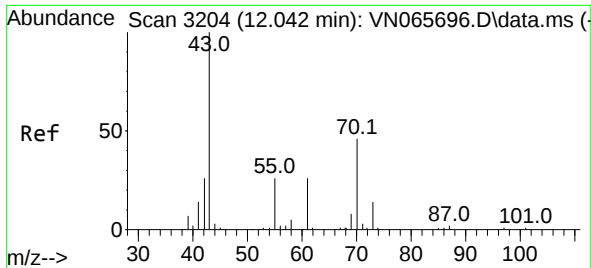
Tgt Ion: 62 Resp: 3594
Ion Ratio Lower Upper
62 100
98 0.0 7.4 11.2#



#43
Ethyl Acetate
Concen: 2.88 ug/l
RT: 6.804 min Scan# 1575
Delta R.T. -0.087 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

Tgt Ion: 43 Resp: 5620
Ion Ratio Lower Upper
43 100
45 0.0 12.9 19.3#

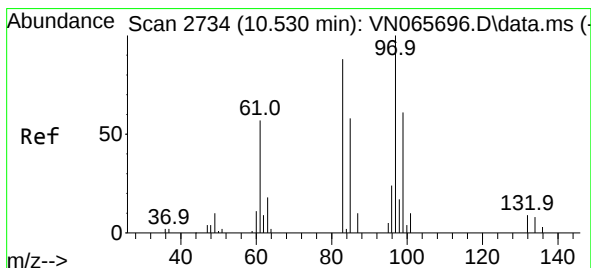
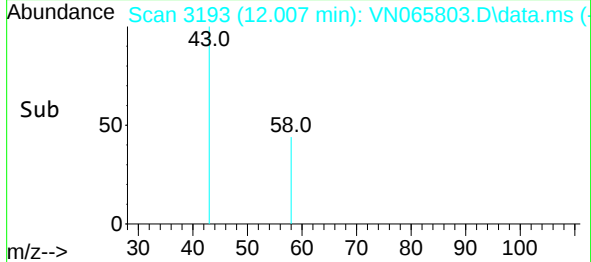
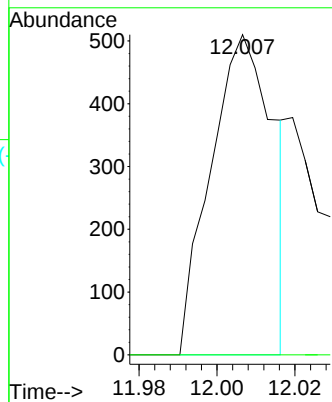
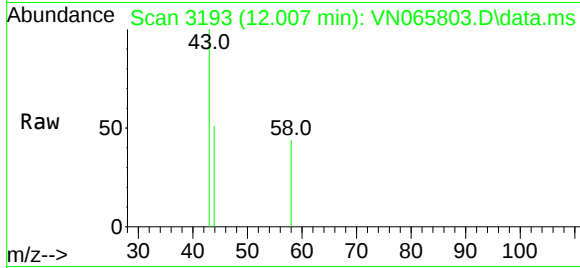




#47
n-amy1 Acetate
Concen: 0.20 ug/l
RT: 12.007 min Scan# 3193
Delta R.T. -0.035 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

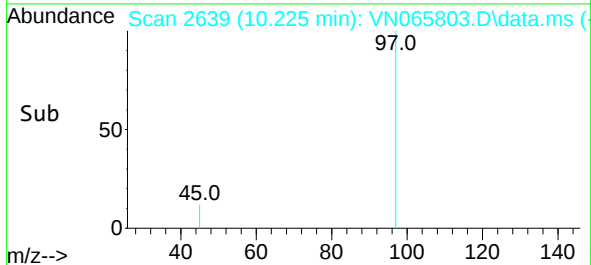
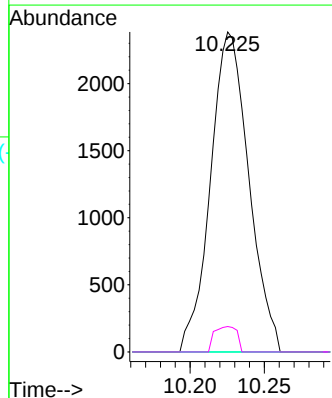
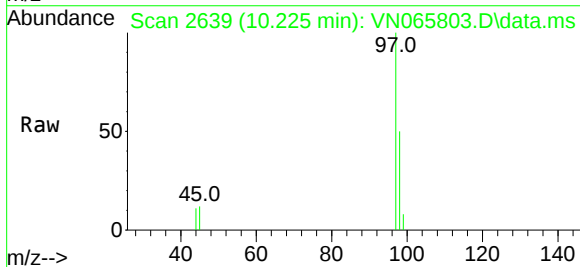
Instrument :
MSVOA_D
ClientSampled :

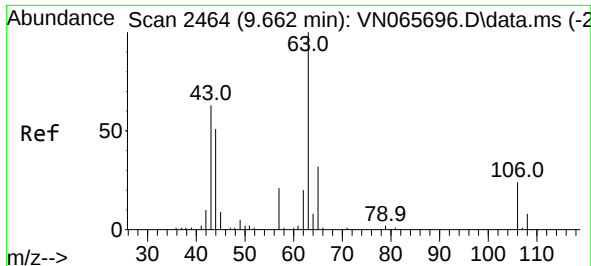
Tgt Ion: 43 Resp: 570
Ion Ratio Lower Upper
43 100
55 0.0 21.3 31.9#



#50
1,1,2-Trichloroethane
Concen: 2.89 ug/l
RT: 10.225 min Scan# 2639
Delta R.T. -0.305 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

Tgt Ion: 97 Resp: 4281
Ion Ratio Lower Upper
97 100
83 0.0 68.4 102.6#
85 0.0 42.8 64.2#
99 7.9 50.7 76.1#

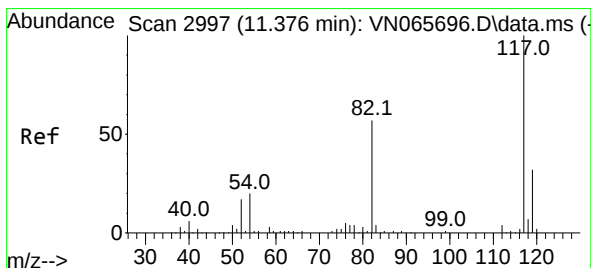
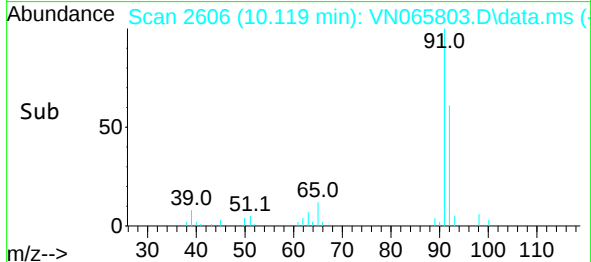
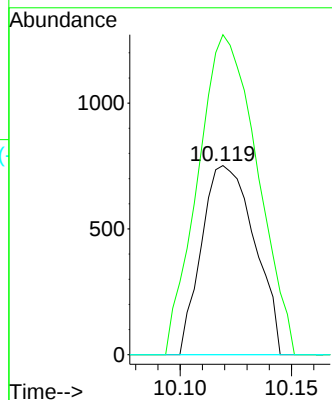
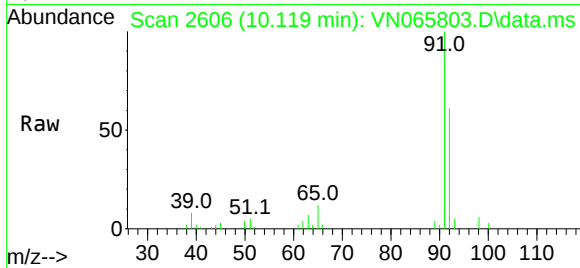




#55
2-Chloroethyl vinyl ether
Concen: 1.17 ug/l
RT: 10.119 min Scan# 2606
Delta R.T. 0.457 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

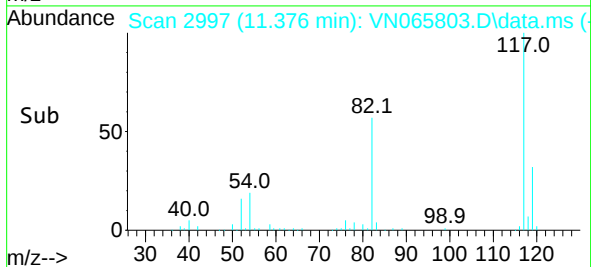
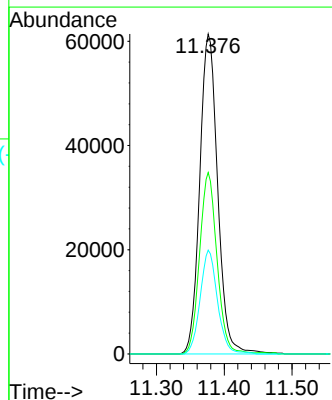
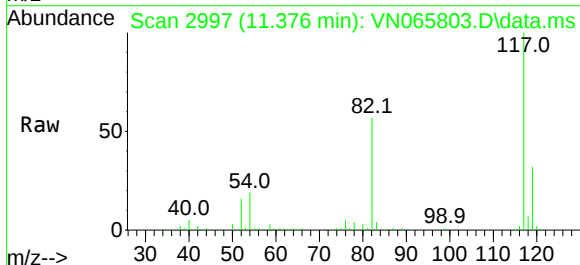
Instrument :
MSVOA_D
ClientSampled :

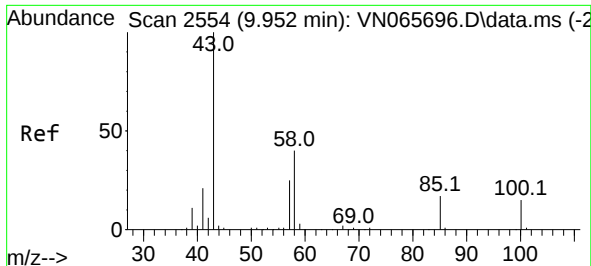
Tgt Ion: 63 Resp: 1244
Ion Ratio Lower Upper
63 100
65 189.1 25.7 38.5#
106 0.0 23.1 34.7#



#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.376 min Scan# 2997
Delta R.T. 0.000 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

Tgt Ion: 117 Resp: 113073
Ion Ratio Lower Upper
117 100
82 55.0 41.3 61.9
119 31.3 25.7 38.5

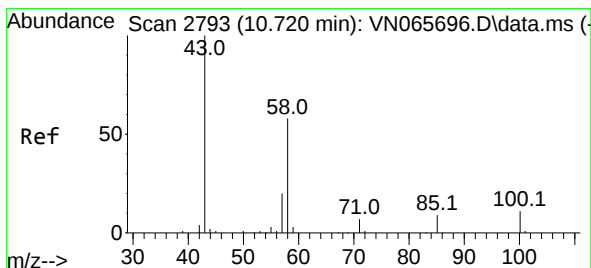
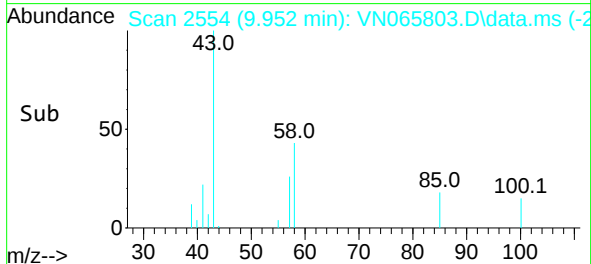
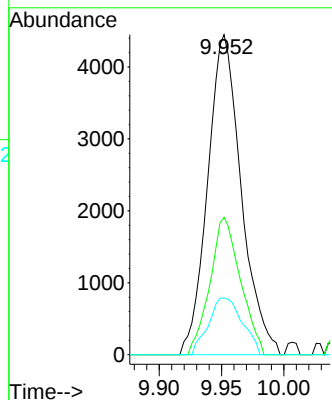
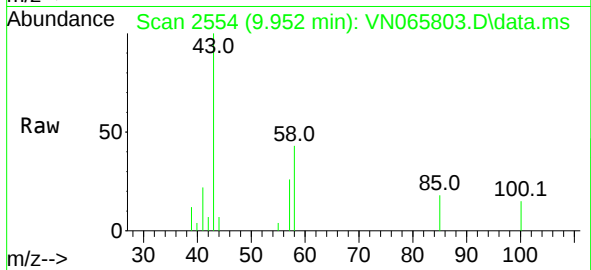




#58
4-Methyl-2-Pentanone
Concen: 4.44 ug/l
RT: 9.952 min Scan# 2554
Delta R.T. 0.000 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

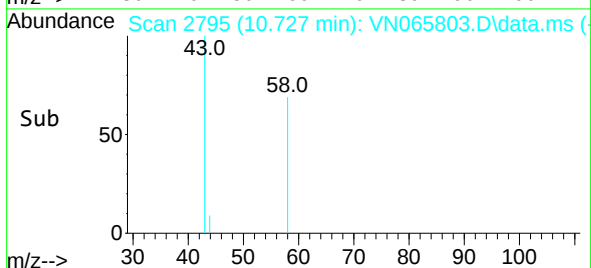
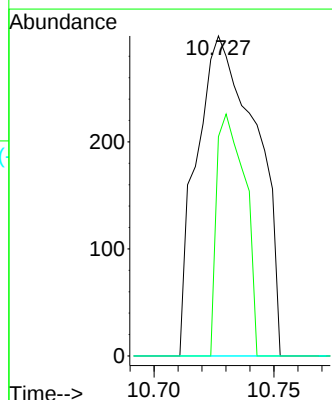
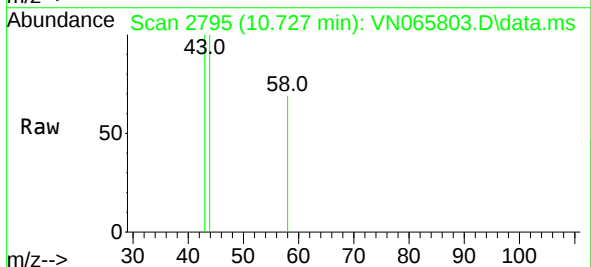
Instrument :
MSVOA_D
ClientSampled :

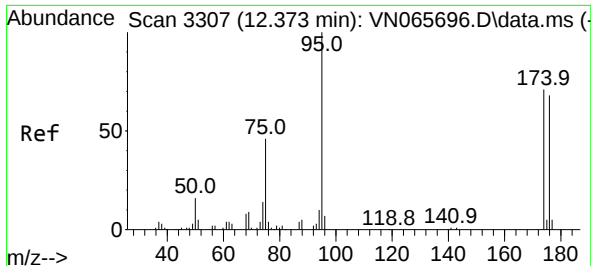
Tgt Ion: 43 Resp: 8347
Ion Ratio Lower Upper
43 100
58 39.0 32.7 49.1
85 17.8 16.0 24.0



#59
2-Hexanone
Concen: 0.39 ug/l
RT: 10.727 min Scan# 2795
Delta R.T. 0.007 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

Tgt Ion: 43 Resp: 519
Ion Ratio Lower Upper
43 100
58 35.6 45.4 68.0#
57 0.0 15.8 23.8#

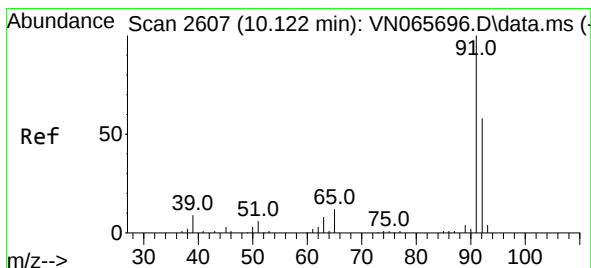
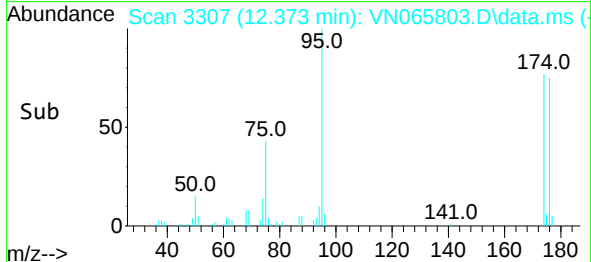
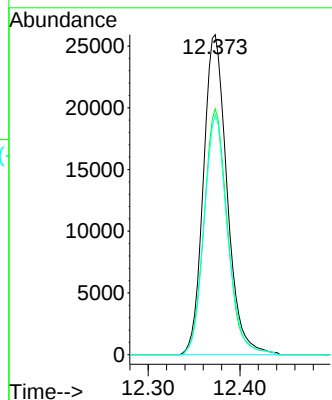
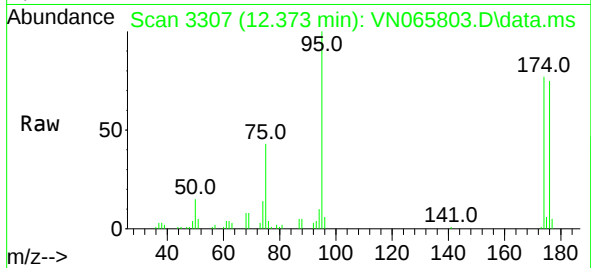




#60
4-Bromofluorobenzene
Concen: 25.25 ug/l
RT: 12.373 min Scan# 3307
Delta R.T. 0.000 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

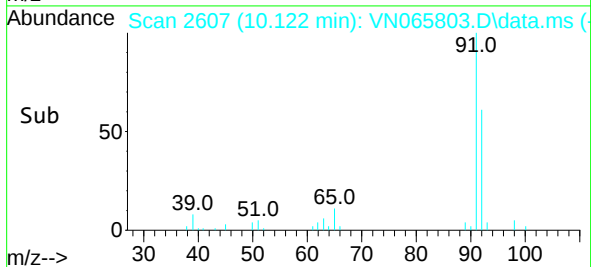
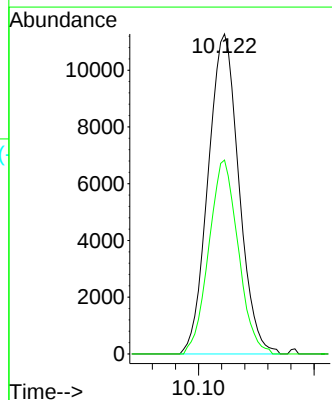
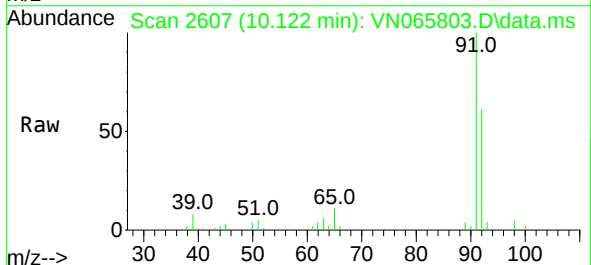
Instrument :
MSVOA_D
ClientSampled :

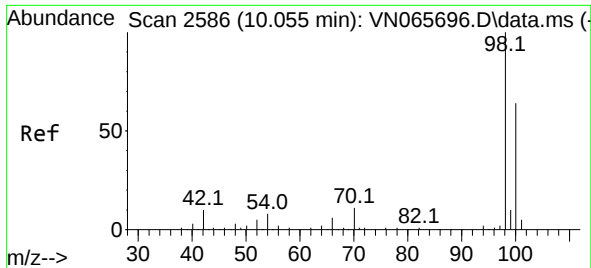
Tgt Ion: 95 Resp: 46452
Ion Ratio Lower Upper
95 100
174 76.1 77.0 115.6#
176 74.3 75.8 113.6#



#62
Toluene
Concen: 3.16 ug/l
RT: 10.122 min Scan# 2607
Delta R.T. 0.000 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

Tgt Ion: 91 Resp: 20866
Ion Ratio Lower Upper
91 100
92 57.9 46.2 69.4

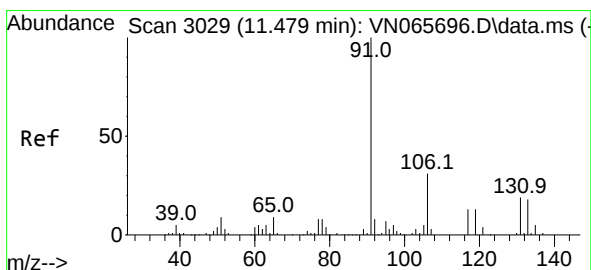
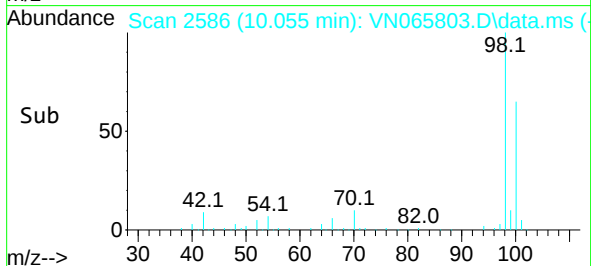
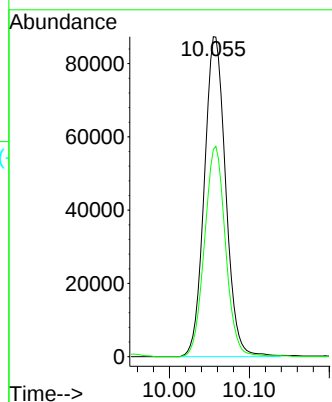
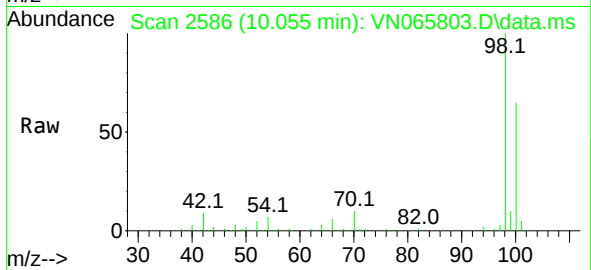




#63
Toluene-d8
Concen: 29.88 ug/l
RT: 10.055 min Scan# 2586
Delta R.T. 0.000 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

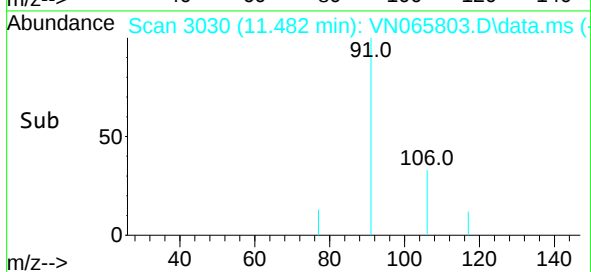
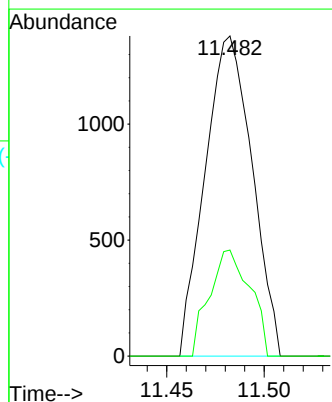
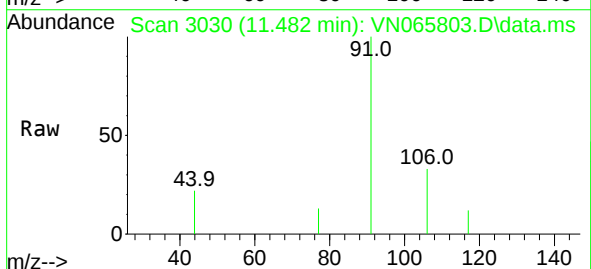
Instrument :
MSVOA_D
ClientSampled :

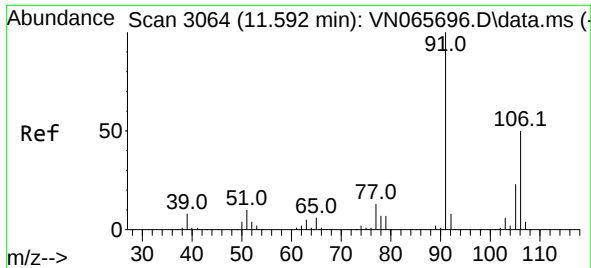
Tgt Ion: 98 Resp: 162440
Ion Ratio Lower Upper
98 100
100 64.6 51.9 77.9



#66
Ethyl Benzene
Concen: 0.33 ug/l
RT: 11.482 min Scan# 3030
Delta R.T. 0.003 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

Tgt Ion: 91 Resp: 2314
Ion Ratio Lower Upper
91 100
106 33.1 25.5 38.3

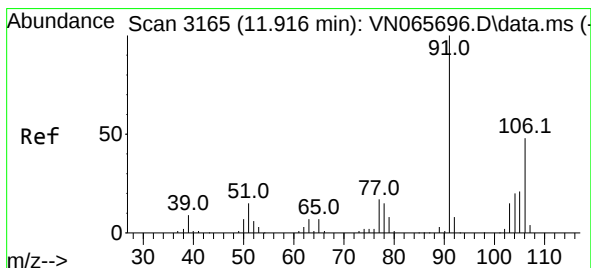
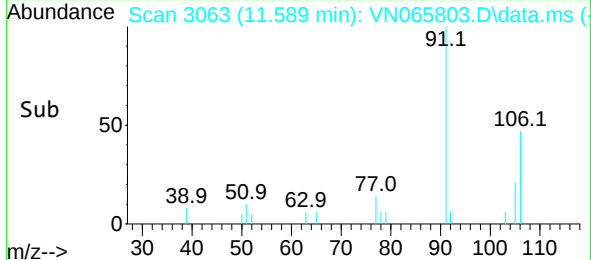
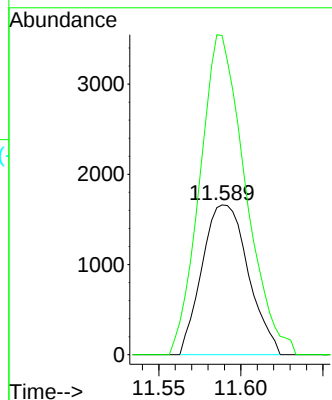
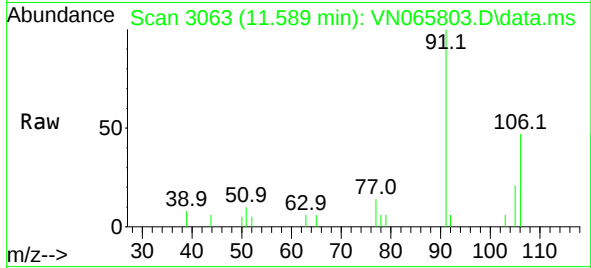




#67
m/p-Xylenes
Concen: 1.23 ug/l
RT: 11.589 min Scan# 3063
Delta R.T. -0.003 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

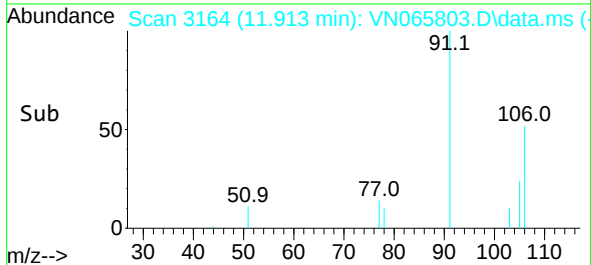
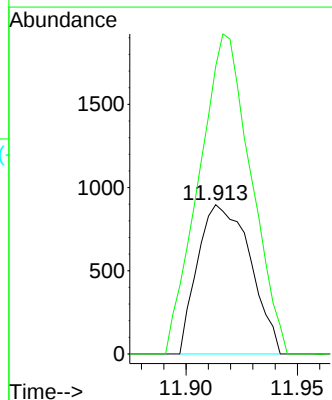
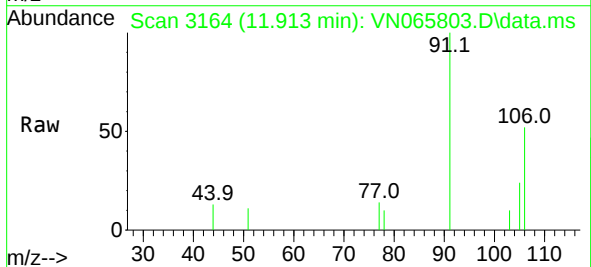
Instrument :
MSVOA_D
ClientSampled :

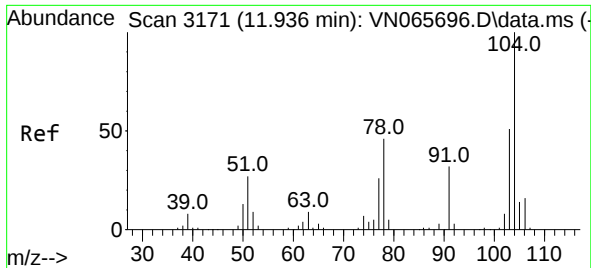
Tgt Ion:106 Resp: 3249
Ion Ratio Lower Upper
106 100
91 210.2 159.0 238.6



#68
o-Xylene
Concen: 0.57 ug/l
RT: 11.913 min Scan# 3164
Delta R.T. -0.003 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

Tgt Ion:106 Resp: 1469
Ion Ratio Lower Upper
106 100
91 211.9 104.7 313.9

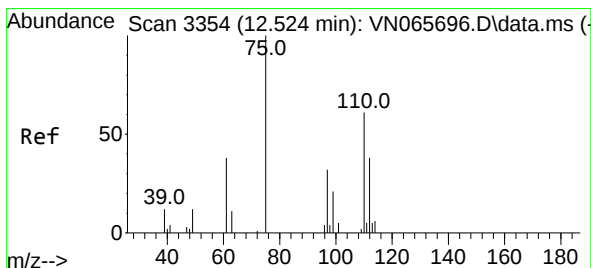
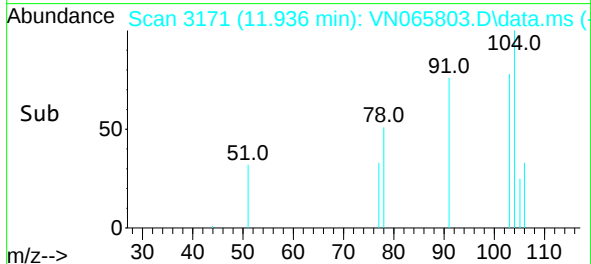
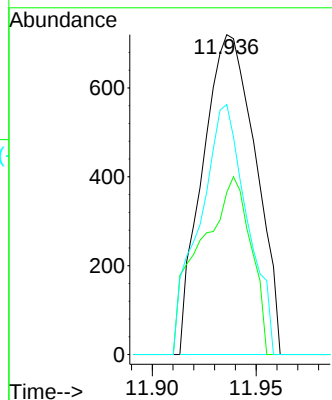
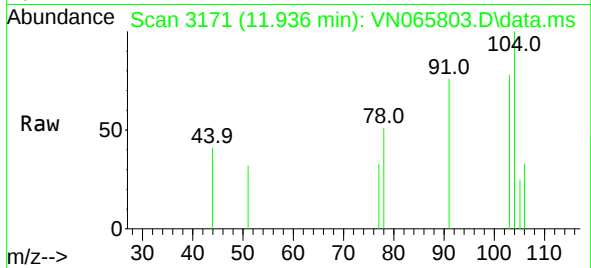




#69
Styrene
Concen: 0.31 ug/l
RT: 11.936 min Scan# 3171
Delta R.T. 0.000 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

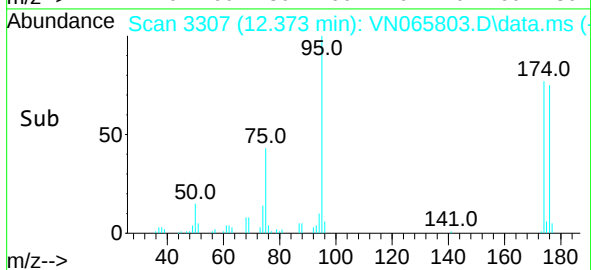
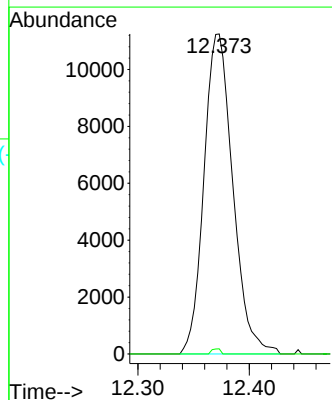
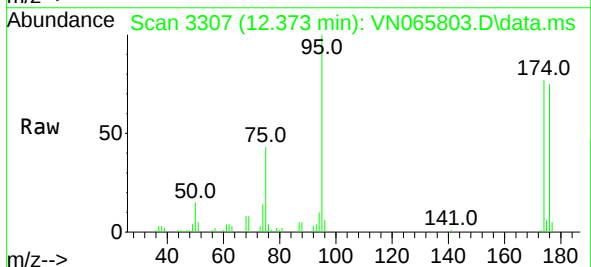
Instrument :
MSVOA_D
ClientSampled :

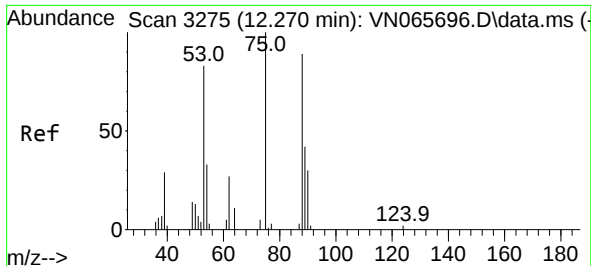
Tgt Ion:104 Resp: 1276
Ion Ratio Lower Upper
104 100
78 53.3 38.0 57.0
103 70.3 44.3 66.5#



#72
1,2,3-Trichloropropane
Concen: 10.70 ug/l
RT: 12.373 min Scan# 3307
Delta R.T. -0.151 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

Tgt Ion: 75 Resp: 20277
Ion Ratio Lower Upper
75 100
77 0.5 0.0 366.4

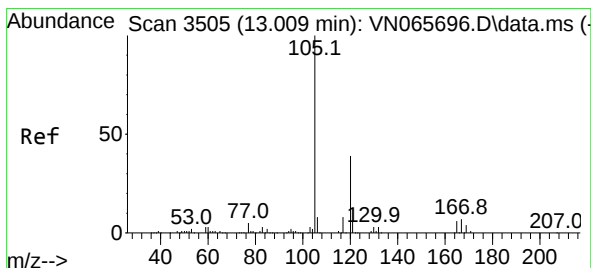
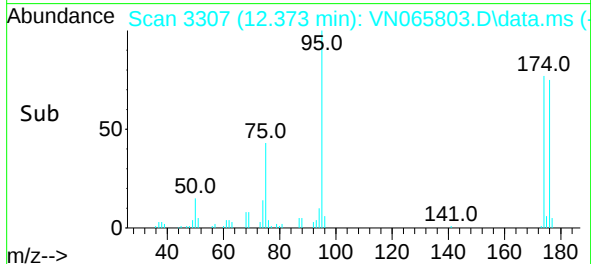
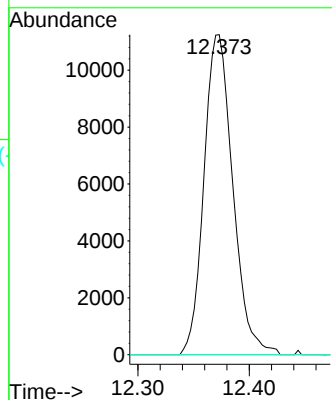
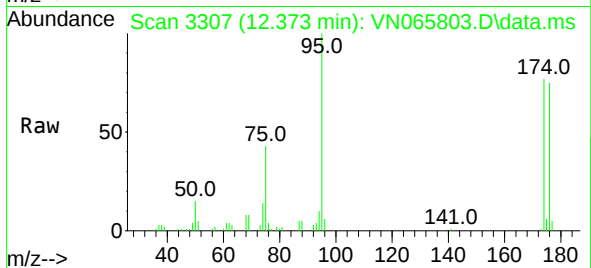




#77
t-1,4-Dichloro-2-butene
Concen: 27.42 ug/l
RT: 12.373 min Scan# 3307
Delta R.T. 0.103 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

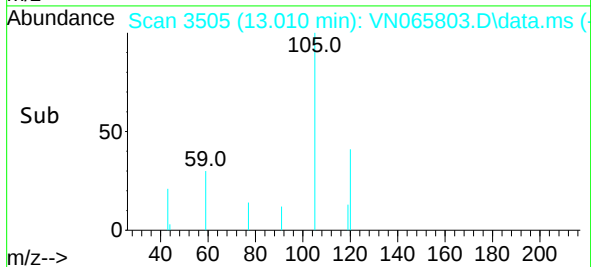
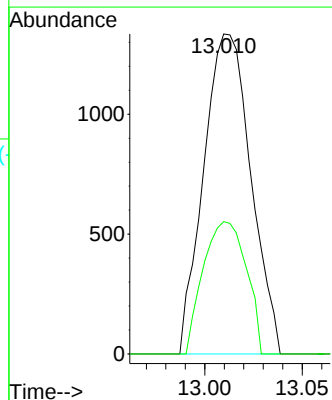
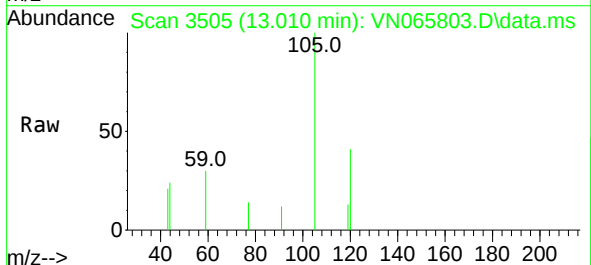
Instrument :
MSVOA_D
ClientSampled :

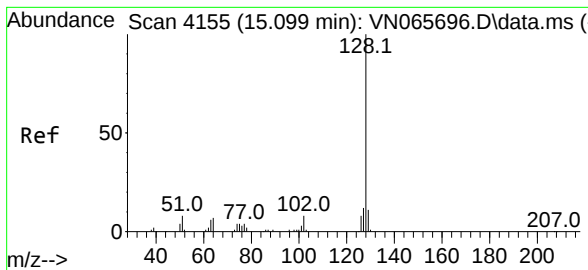
Tgt Ion: 75 Resp: 20277
Ion Ratio Lower Upper
75 100
53 0.0 44.9 134.5#
89 0.0 21.3 64.0#



#80
1,2,4-Trimethylbenzene
Concen: 0.41 ug/l
RT: 13.010 min Scan# 3505
Delta R.T. 0.000 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

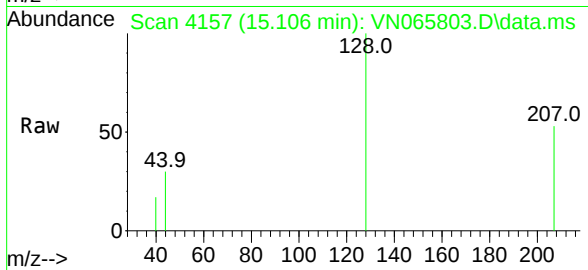
Tgt Ion: 105 Resp: 2250
Ion Ratio Lower Upper
105 100
120 37.7 0.0 93.6





#91
Naphthalene
Concen: 0.39 ug/l
RT: 15.106 min Scan# 4157
Delta R.T. 0.007 min
Lab File: VN065803.D
Acq: 10 Feb 2021 18:26

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion:128 Resp: 1702
Ion Ratio Lower Upper
128 100
127 0.0 10.1 15.1#
129 0.0 8.6 12.8#

