

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021221\
 Data File : VN065844.D
 Acq On : 12 Feb 2021 17:33
 Operator : JC/MD
 Sample : M1399-01 5X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 13 01:02:37 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)

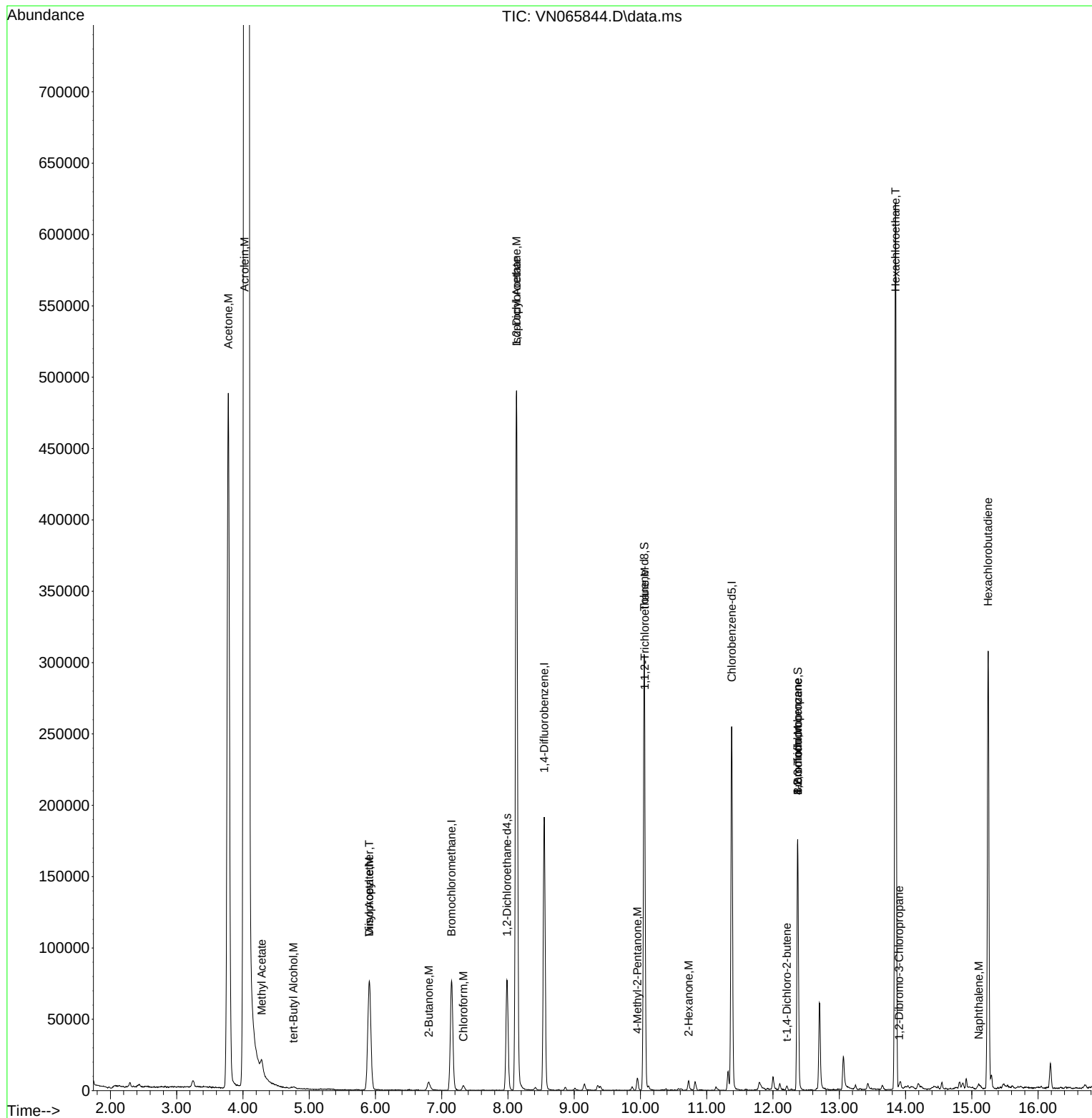
Internal Standards						
1) Bromochloromethane	7.148	128	32335	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.547	114	183431	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.376	117	156549	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.987	65	65532	29.22	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	97.40%	
60) 4-Bromofluorobenzene	12.373	95	70572	27.71	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	92.37%	
63) Toluene-d8	10.058	98	227316	30.20	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	100.67%	
Target Compounds						
					Qvalue	
12) Methyl Acetate	4.283	43	17577	7.67	ug/l	97
13) Acrolein	4.023	56	95	0.31	ug/l	91
15) Acetone	3.779	58	286780	920.93	ug/l	91
20) Diisopropyl ether	5.907	45	108395	14.97	ug/l #	86
23) tert-Butyl Alcohol	4.763	59	731	2.01	ug/l #	100
25) Chloroform	7.325	83	4158	1.15	ug/l	86
30) 2-Butanone	6.804	43	7621	5.75	ug/l #	80
36) 1,2-Dichloroethane	8.129	62	3194	1.16	ug/l #	74
42) Vinyl Acetate	5.907	43	50362	8.67	ug/l #	73
44) Isopropyl Acetate	8.129	43	577328	122.93	ug/l	95
50) 1,1,2-Trichloroethane	10.065	97	7425	3.60	ug/l #	1
56) Bromoform	12.373	173	315	0.24	ug/l #	1
58) 4-Methyl-2-Pentanone	9.952	43	6581	2.53	ug/l #	90
59) 2-Hexanone	10.727	43	4539	2.44	ug/l #	93
72) 1,2,3-Trichloropropane	12.373	75	32420	12.36	ug/l	1
77) t-1,4-Dichloro-2-butene	12.209	75	1680	1.64	ug/l #	14
86) Hexachloroethane	13.849	117	951	0.73	ug/l #	1
88) 1,2-Dibromo-3-Chloropr...	13.904	75	546	1.06	ug/l #	1
90) Hexachlorobutadiene	15.248	225	395	0.46	ug/l #	1
91) Naphthalene	15.106	128	2946	0.49	ug/l #	88

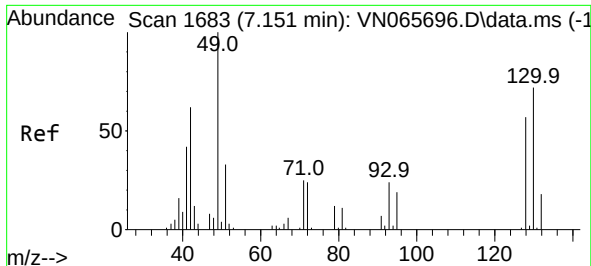
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021221\
Data File : VN065844.D
Acq On : 12 Feb 2021 17:33
Operator : JC/MD
Sample : M1399-01 5X
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

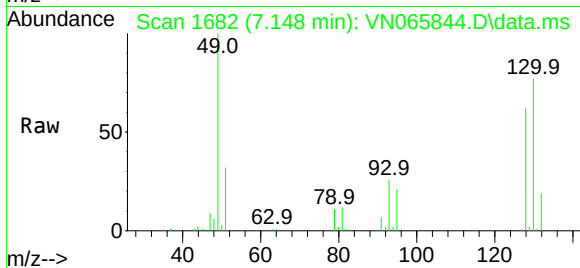
Quant Time: Feb 13 01:02:37 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020321W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Feb 03 14:50:04 2021
Response via : Initial Calibration



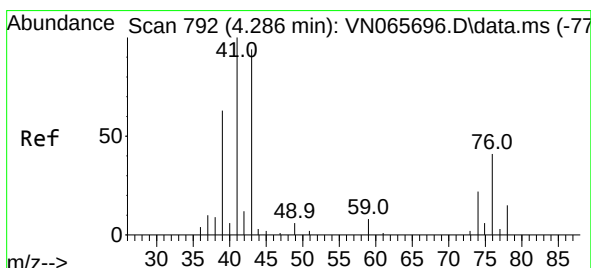
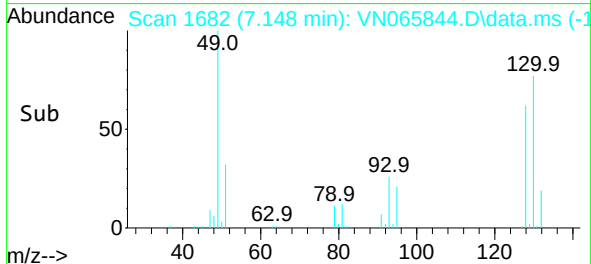
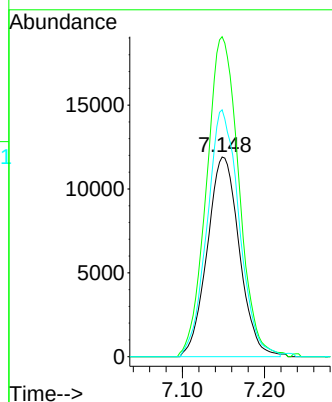


#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 7.148 min Scan# 1682
Delta R.T. -0.003 min
Lab File: VN065844.D
Acq: 12 Feb 2021 17:33

Instrument :
MSVOA_N
ClientSampled :

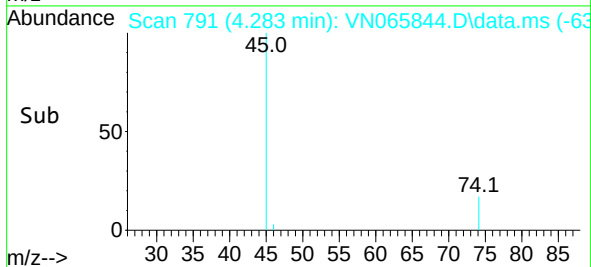
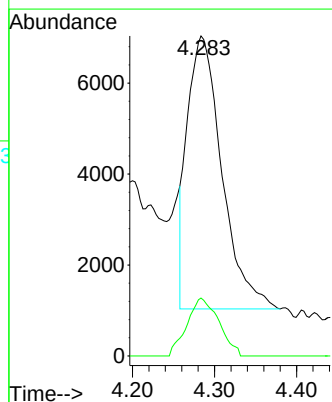
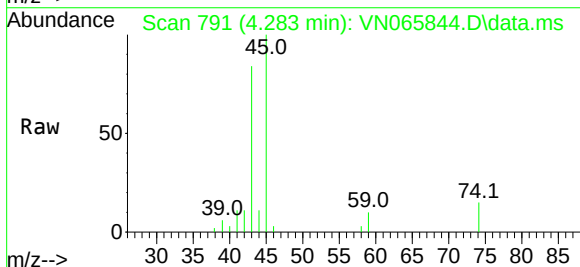


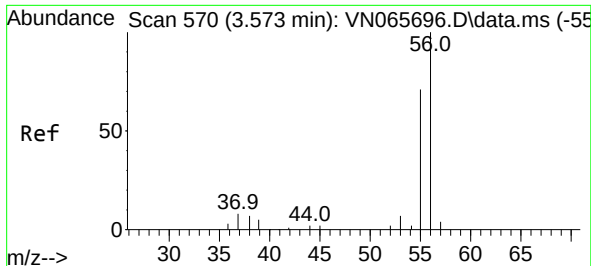
Tgt Ion:128 Resp: 32335
Ion Ratio Lower Upper
128 100
49 161.6 0.0 355.0
130 123.9 0.0 325.5



#12
Methyl Acetate
Concen: 7.67 ug/l
RT: 4.283 min Scan# 791
Delta R.T. -0.003 min
Lab File: VN065844.D
Acq: 12 Feb 2021 17:33

Tgt Ion: 43 Resp: 17577
Ion Ratio Lower Upper
43 100
74 23.2 19.9 29.9

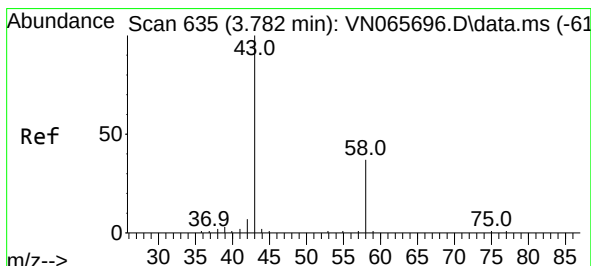
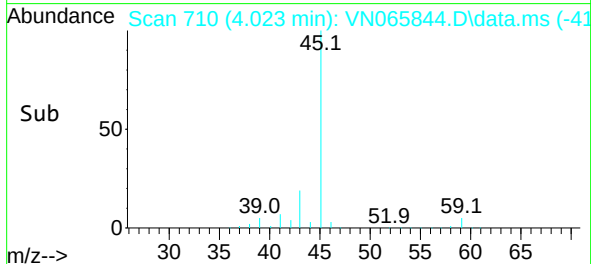
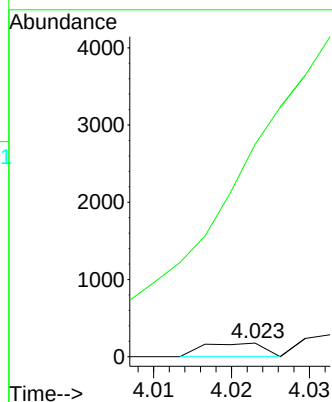
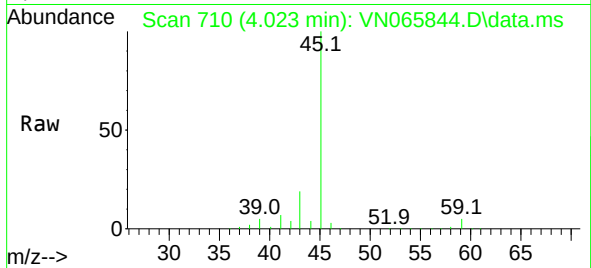




#13
Acrolein
Concen: 0.31 ug/l
RT: 4.023 min Scan# 710
Delta R.T. 0.450 min
Lab File: VN065844.D
Acq: 12 Feb 2021 17:33

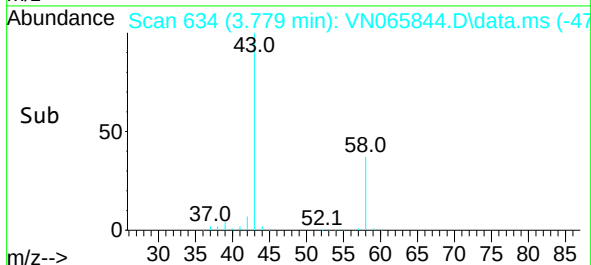
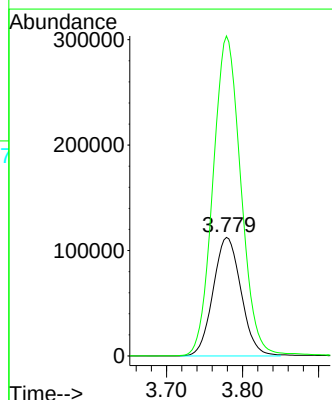
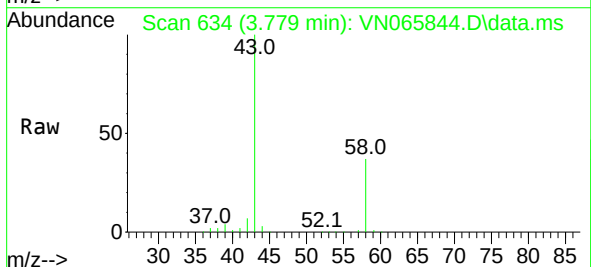
Instrument :
MSVOA_N
ClientSampled :

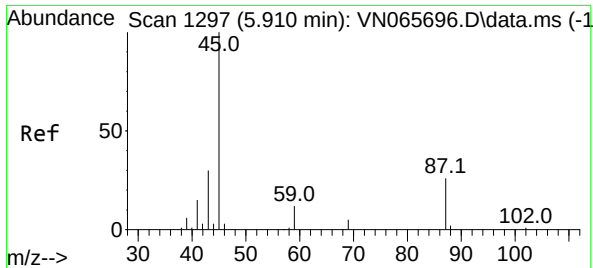
Tgt Ion: 56 Resp: 95
Ion Ratio Lower Upper
56 100
55 64.2 57.7 86.5



#15
Acetone
Concen: 920.93 ug/l
RT: 3.779 min Scan# 634
Delta R.T. -0.003 min
Lab File: VN065844.D
Acq: 12 Feb 2021 17:33

Tgt Ion: 58 Resp: 286780
Ion Ratio Lower Upper
58 100
43 269.4 203.4 305.0

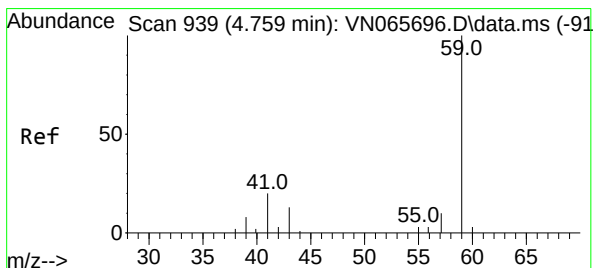
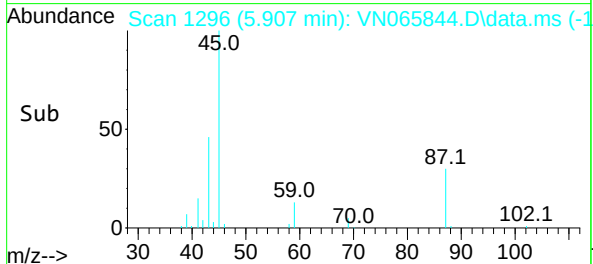
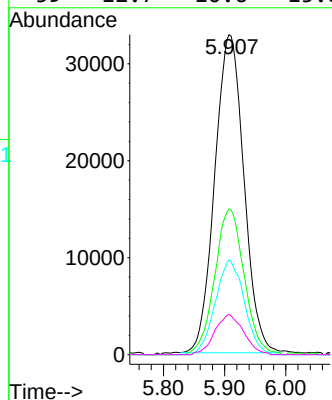
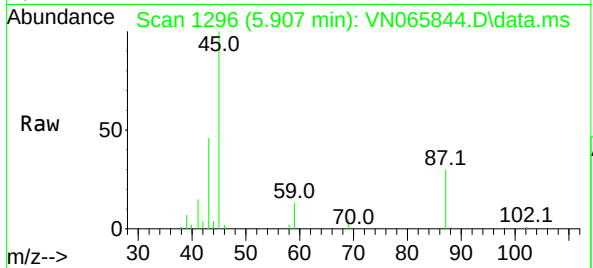




#20
Diisopropyl ether
Concen: 14.97 ug/l
RT: 5.907 min Scan# 1296
Delta R.T. -0.003 min
Lab File: VN065844.D
Acq: 12 Feb 2021 17:33

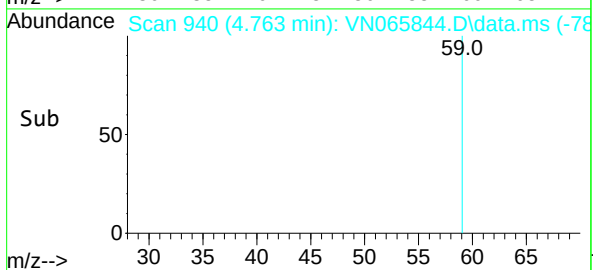
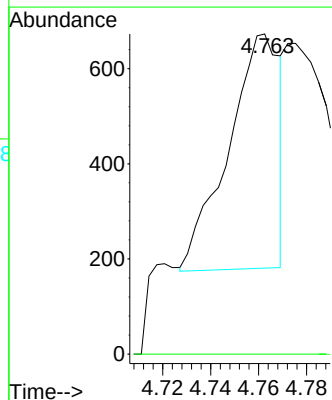
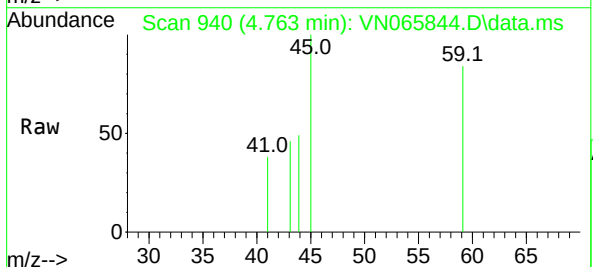
Instrument :
MSVOA_N
ClientSampled :

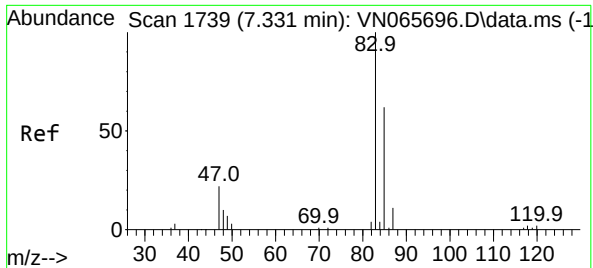
Tgt Ion: 45	Resp: 108395
Ion Ratio	Lower Upper
45 100	
43 45.8	50.4 75.6#
87 29.8	24.5 36.7
59 12.7	10.6 15.8



#23
tert-Butyl Alcohol
Concen: 2.01 ug/l
RT: 4.763 min Scan# 940
Delta R.T. 0.004 min
Lab File: VN065844.D
Acq: 12 Feb 2021 17:33

Tgt Ion: 59	Resp: 731
Ion Ratio	Lower Upper
59 100	
52 0.0	0.0 0.0



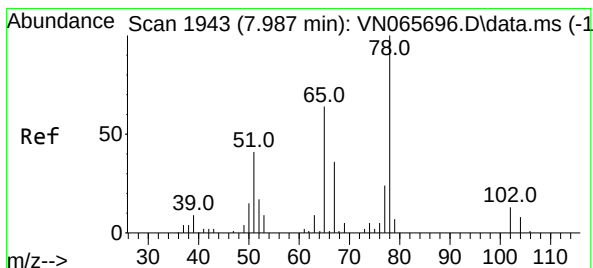
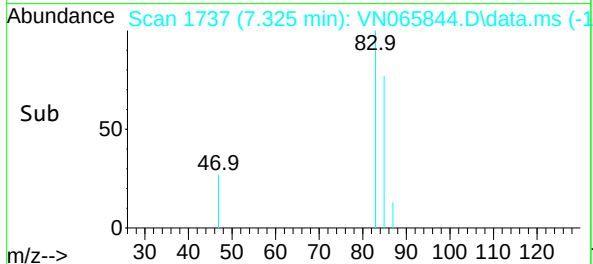
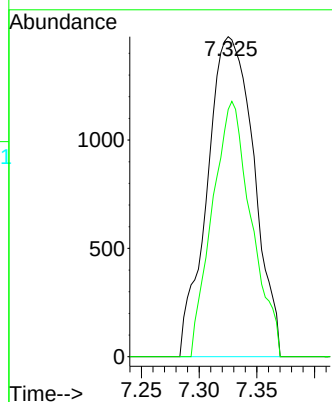
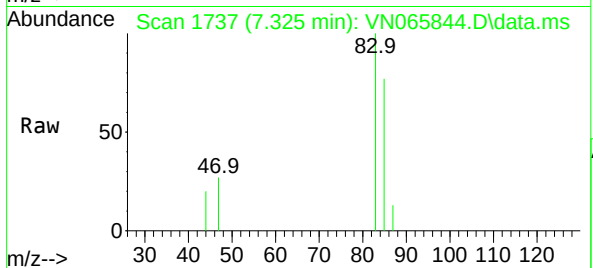


#25

Chloroform
 Concen: 1.15 ug/l
 RT: 7.325 min Scan# 1737
 Delta R.T. -0.006 min
 Lab File: VN065844.D
 Acq: 12 Feb 2021 17:33

Instrument :
 MSVOA_N
 ClientSampleId :

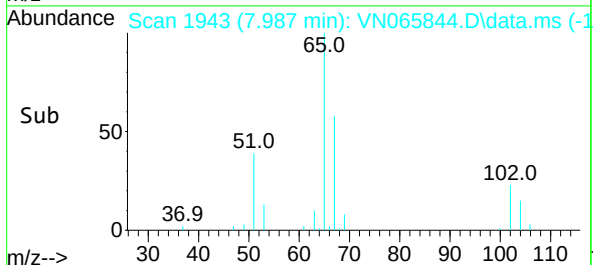
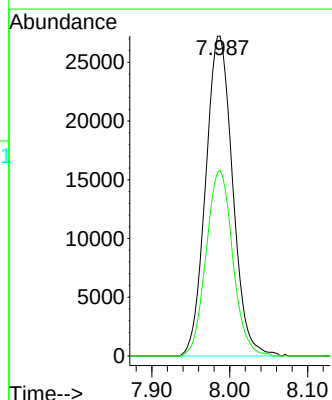
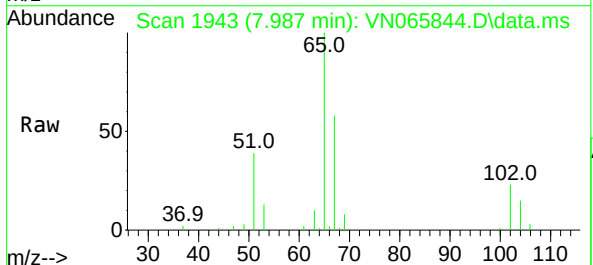
Tgt Ion: 83 Resp: 4158
 Ion Ratio Lower Upper
 83 100
 85 77.3 53.0 79.4

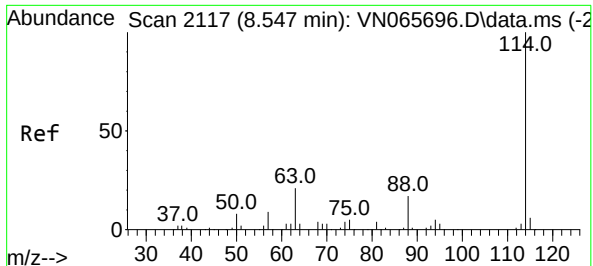


#27

1,2-Dichloroethane-d4
 Concen: 29.22 ug/l
 RT: 7.987 min Scan# 1943
 Delta R.T. 0.000 min
 Lab File: VN065844.D
 Acq: 12 Feb 2021 17:33

Tgt Ion: 65 Resp: 65532
 Ion Ratio Lower Upper
 65 100
 67 57.1 42.8 64.2

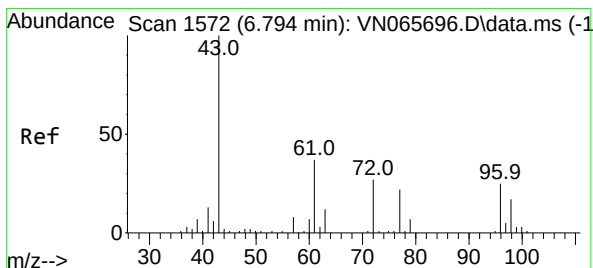
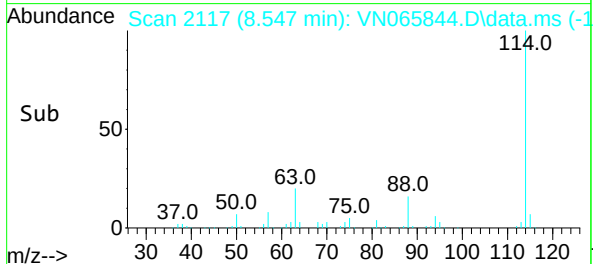
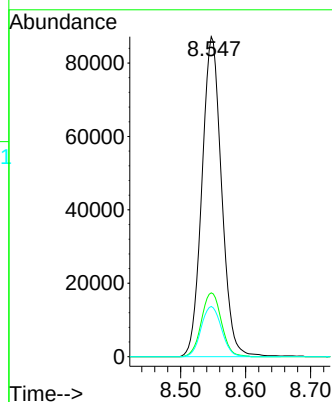
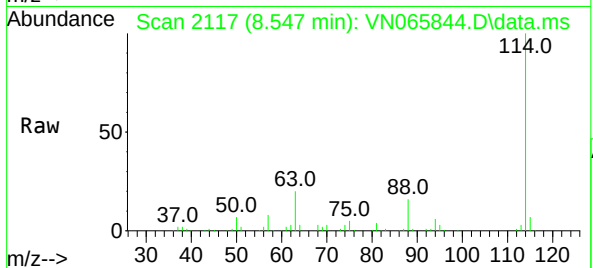




#28
1,4-Difluorobenzene
Concen: 30.00 ug/l
RT: 8.547 min Scan# 2117
Delta R.T. 0.000 min
Lab File: VN065844.D
Acq: 12 Feb 2021 17:33

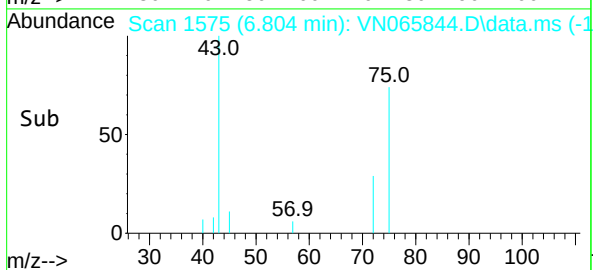
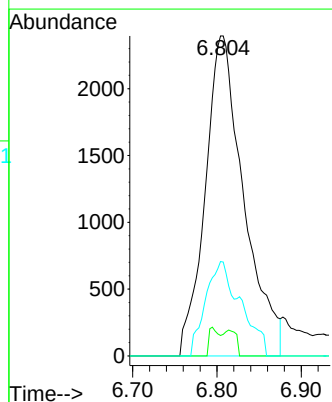
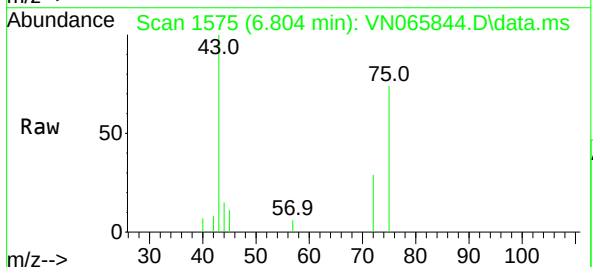
Instrument :
MSVOA_N
ClientSampled :

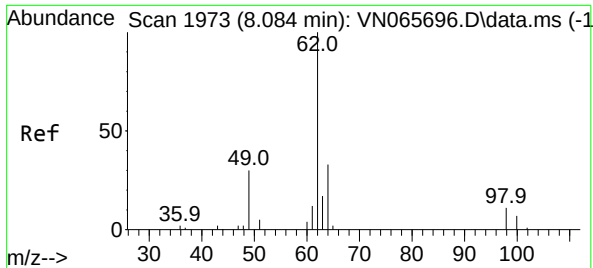
Tgt Ion:114 Resp: 183431
Ion Ratio Lower Upper
114 100
63 20.4 14.7 22.1
88 16.2 11.7 17.5



#30
2-Butanone
Concen: 5.75 ug/l
RT: 6.804 min Scan# 1575
Delta R.T. 0.010 min
Lab File: VN065844.D
Acq: 12 Feb 2021 17:33

Tgt Ion: 43 Resp: 7621
Ion Ratio Lower Upper
43 100
57 0.7 7.0 10.4#
72 19.1 23.6 35.4#

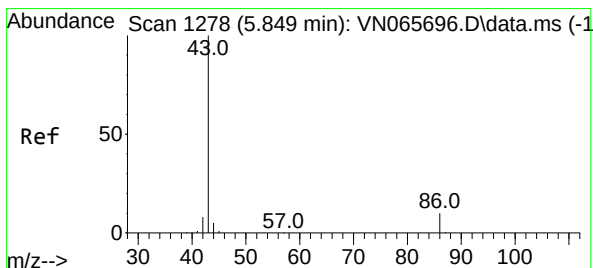
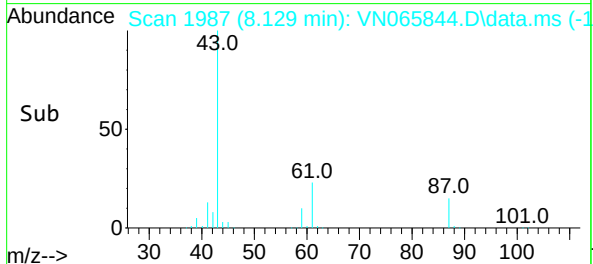
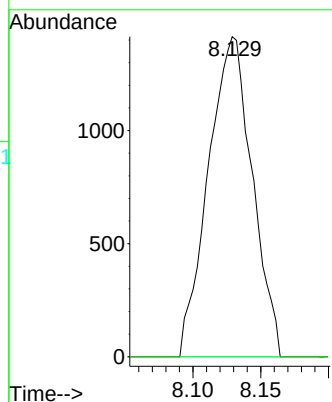
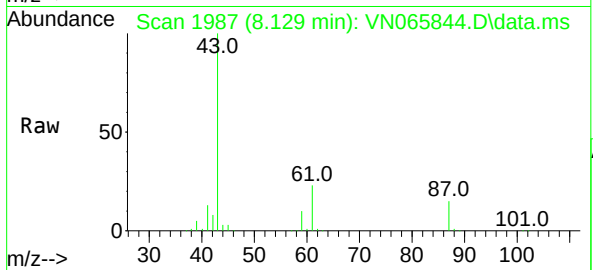




#36
1,2-Dichloroethane
Concen: 1.16 ug/l
RT: 8.129 min Scan# 1987
Delta R.T. 0.045 min
Lab File: VN065844.D
Acq: 12 Feb 2021 17:33

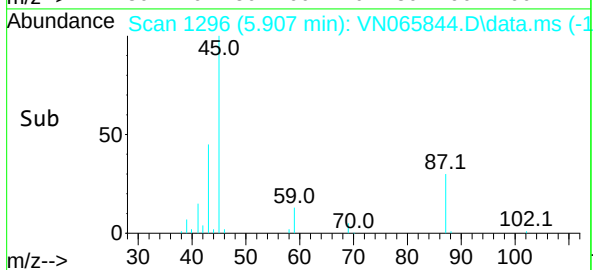
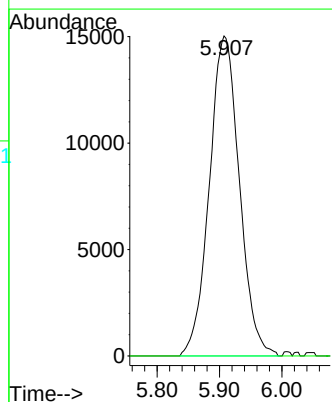
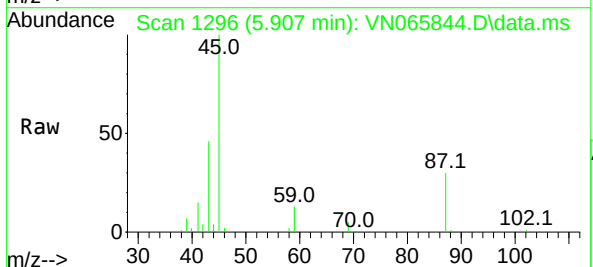
Instrument :
MSVOA_N
ClientSampled :

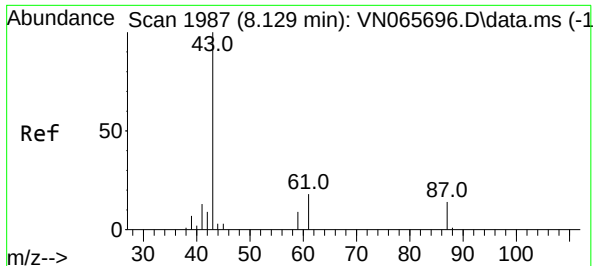
Tgt Ion: 62 Resp: 3194
Ion Ratio Lower Upper
62 100
98 0.0 7.4 11.2#



#42
Vinyl Acetate
Concen: 8.67 ug/l
RT: 5.907 min Scan# 1296
Delta R.T. 0.058 min
Lab File: VN065844.D
Acq: 12 Feb 2021 17:33

Tgt Ion: 43 Resp: 50362
Ion Ratio Lower Upper
43 100
86 0.0 7.9 11.9#

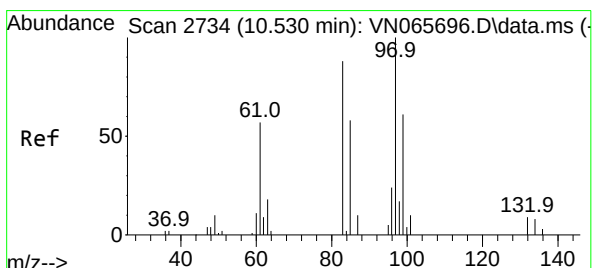
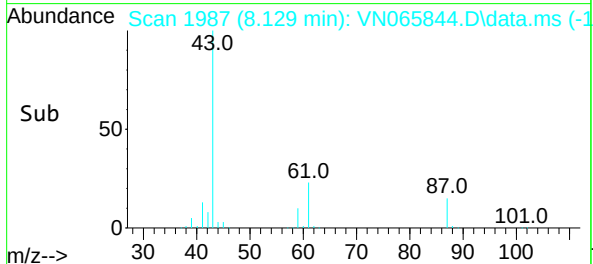
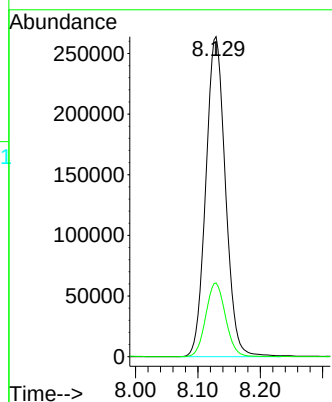
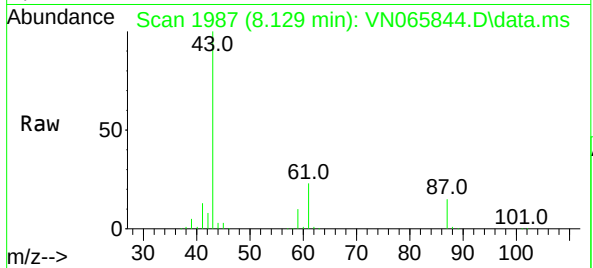




#44
Isopropyl Acetate
Concen: 122.93 ug/l
RT: 8.129 min Scan# 1987
Delta R.T. 0.000 min
Lab File: VN065844.D
Acq: 12 Feb 2021 17:33

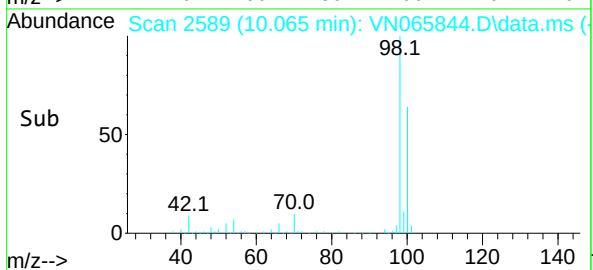
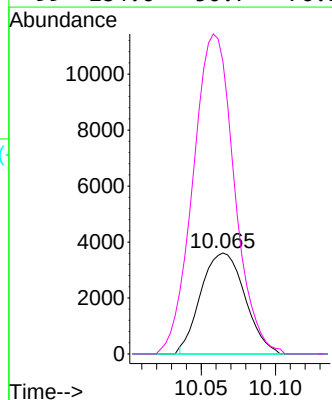
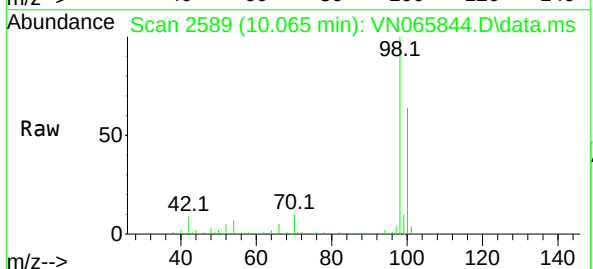
Instrument :
MSVOA_N
ClientSampled :

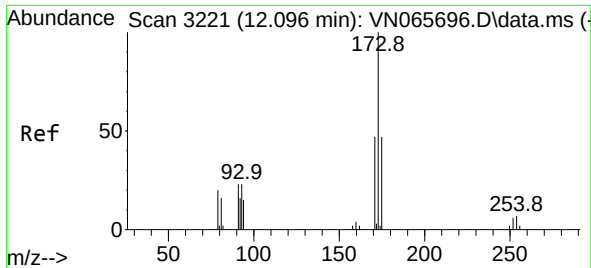
Tgt Ion: 43 Resp: 577328
Ion Ratio Lower Upper
43 100
61 23.2 16.8 25.2



#50
1,1,2-Trichloroethane
Concen: 3.60 ug/l
RT: 10.065 min Scan# 2589
Delta R.T. -0.466 min
Lab File: VN065844.D
Acq: 12 Feb 2021 17:33

Tgt Ion: 97 Resp: 7425
Ion Ratio Lower Upper
97 100
83 0.0 68.4 102.6#
85 0.0 42.8 64.2#
99 284.6 50.7 76.1#

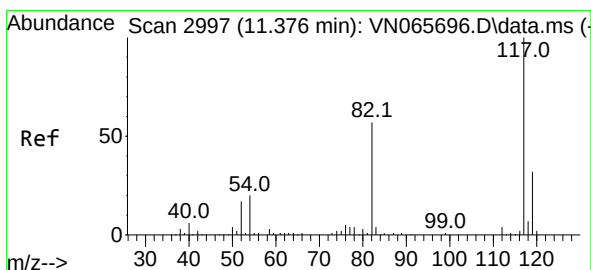
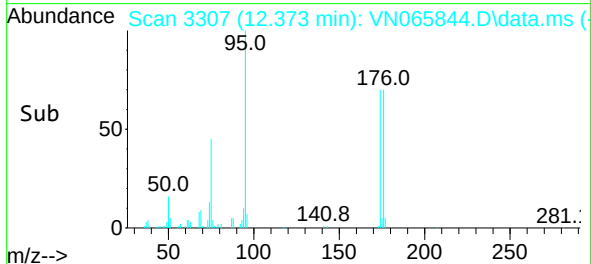
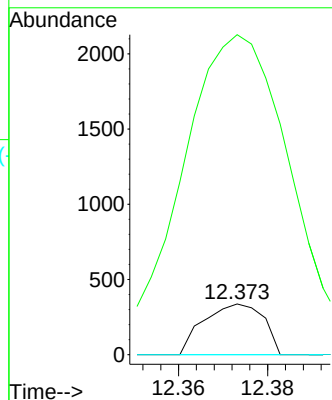
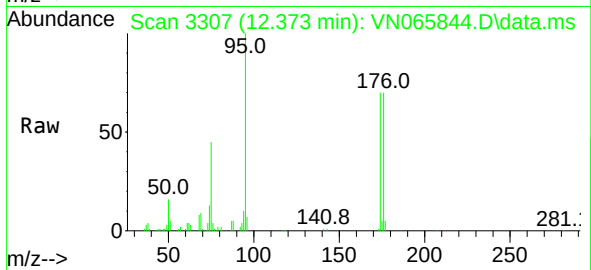




#56
Bromoform
Concen: 0.24 ug/l
RT: 12.373 min Scan# 3307
Delta R.T. 0.277 min
Lab File: VN065844.D
Acq: 12 Feb 2021 17:33

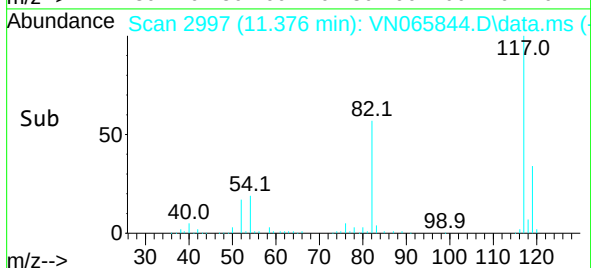
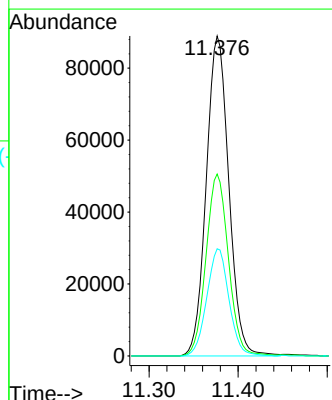
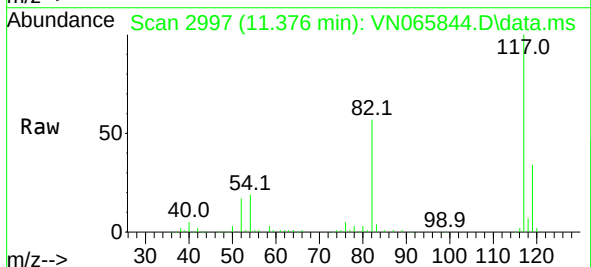
Instrument :
MSVOA_N
ClientSampleId :

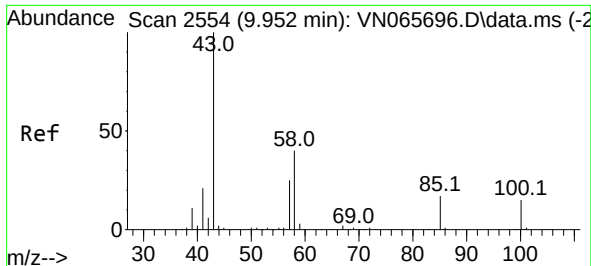
Tgt Ion:173 Resp: 315
Ion Ratio Lower Upper
173 100
175 1150.2 38.2 57.4#
254 0.0 9.8 14.8#



#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.376 min Scan# 2997
Delta R.T. 0.000 min
Lab File: VN065844.D
Acq: 12 Feb 2021 17:33

Tgt Ion:117 Resp: 156549
Ion Ratio Lower Upper
117 100
82 56.4 41.3 61.9
119 32.9 25.7 38.5

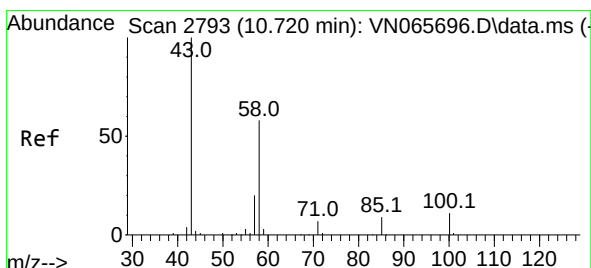
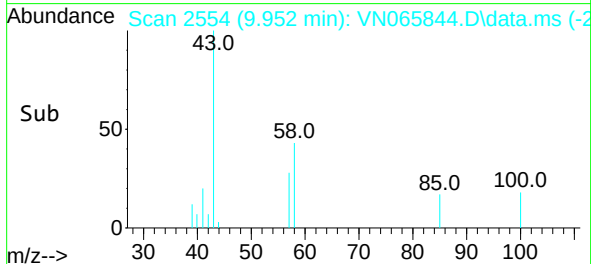
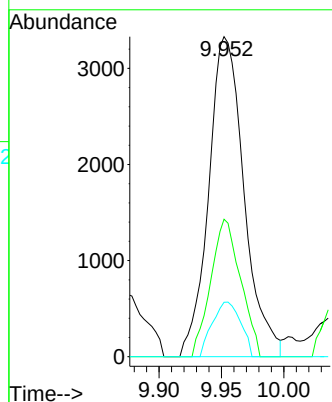
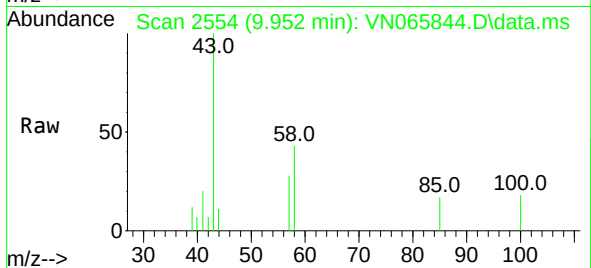




#58
4-Methyl-2-Pentanone
Concen: 2.53 ug/l
RT: 9.952 min Scan# 2554
Delta R.T. 0.000 min
Lab File: VN065844.D
Acq: 12 Feb 2021 17:33

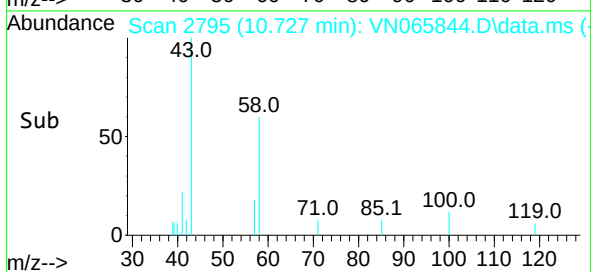
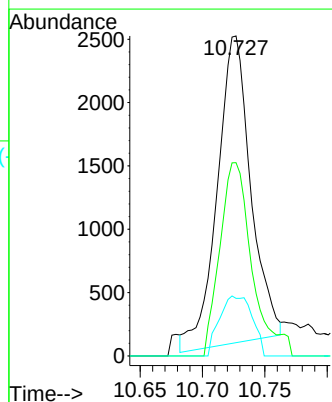
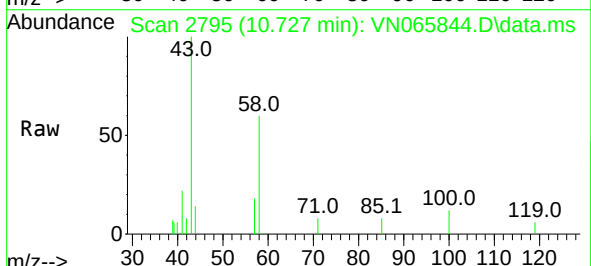
Instrument :
MSVOA_N
ClientSampled :

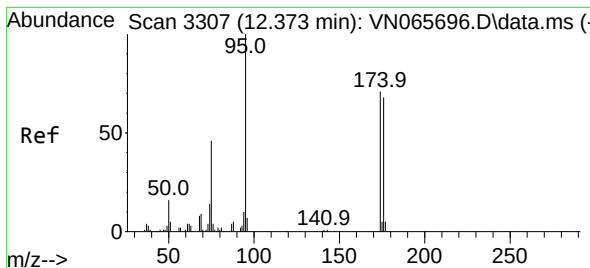
Tgt Ion: 43 Resp: 6581
Ion Ratio Lower Upper
43 100
58 36.2 32.7 49.1
85 13.7 16.0 24.0#



#59
2-Hexanone
Concen: 2.44 ug/l
RT: 10.727 min Scan# 2795
Delta R.T. 0.007 min
Lab File: VN065844.D
Acq: 12 Feb 2021 17:33

Tgt Ion: 43 Resp: 4539
Ion Ratio Lower Upper
43 100
58 58.2 45.4 68.0
57 10.4 15.8 23.8#

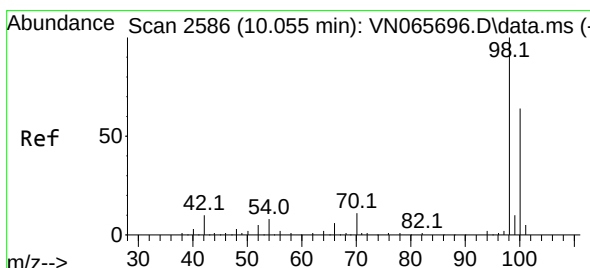
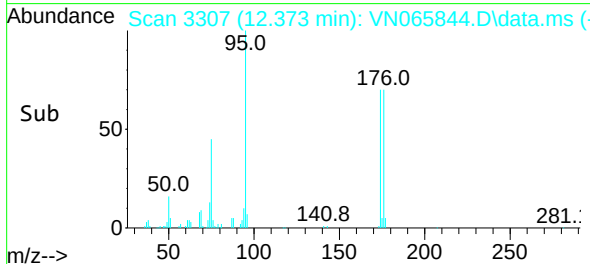
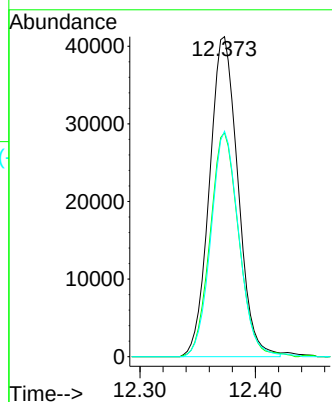
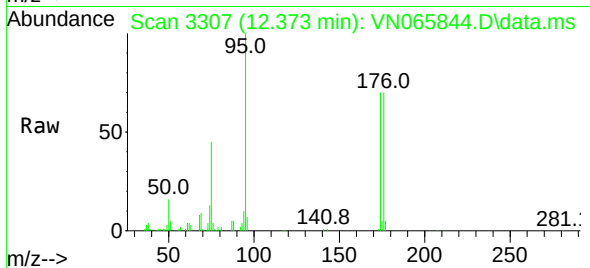




#60
4-Bromofluorobenzene
Concen: 27.71 ug/l
RT: 12.373 min Scan# 3307
Delta R.T. 0.000 min
Lab File: VN065844.D
Acq: 12 Feb 2021 17:33

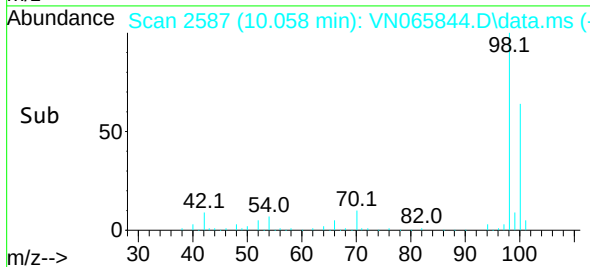
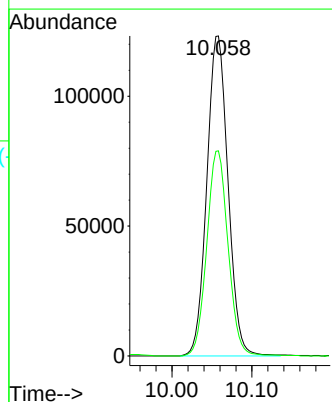
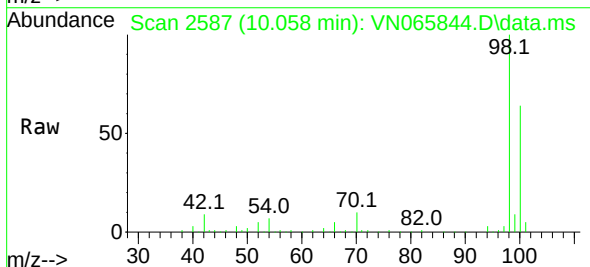
Instrument :
MSVOA_N
ClientSampled :

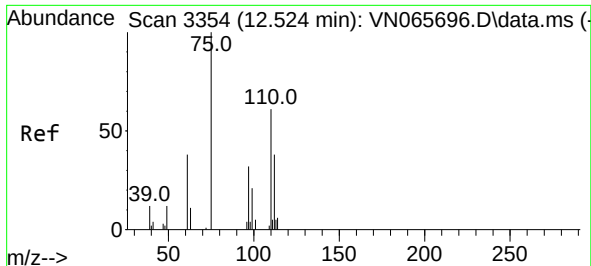
Tgt Ion: 95 Resp: 70572
Ion Ratio Lower Upper
95 100
174 70.6 77.0 115.6#
176 69.0 75.8 113.6#



#63
Toluene-d8
Concen: 30.20 ug/l
RT: 10.058 min Scan# 2587
Delta R.T. 0.004 min
Lab File: VN065844.D
Acq: 12 Feb 2021 17:33

Tgt Ion: 98 Resp: 227316
Ion Ratio Lower Upper
98 100
100 64.1 51.9 77.9

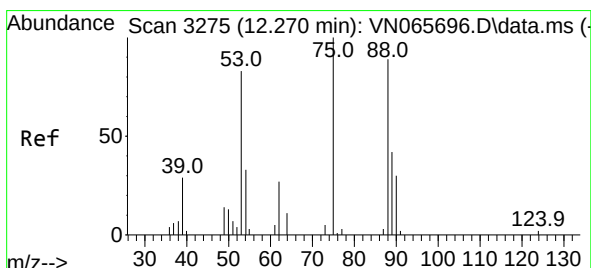
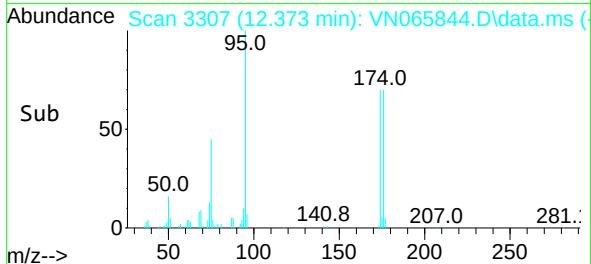
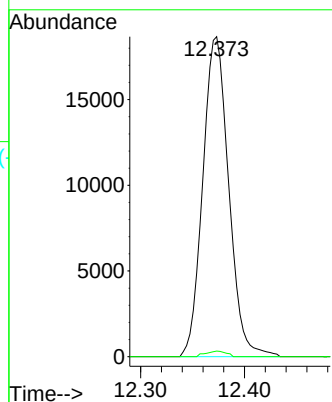
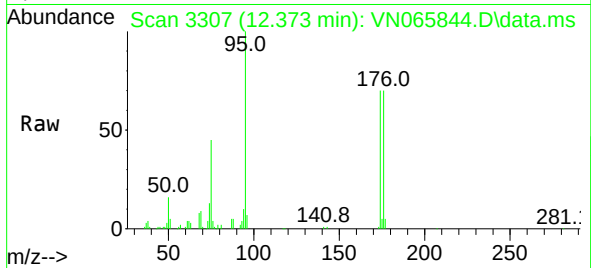




#72
1,2,3-Trichloropropane
Concen: 12.36 ug/l
RT: 12.373 min Scan# 3307
Delta R.T. -0.151 min
Lab File: VN065844.D
Acq: 12 Feb 2021 17:33

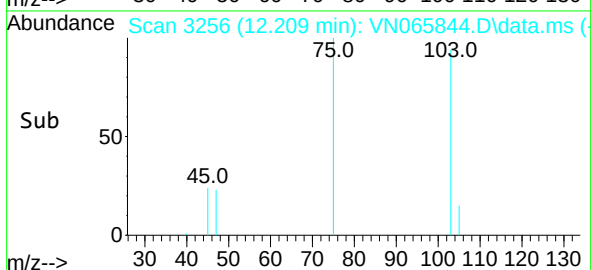
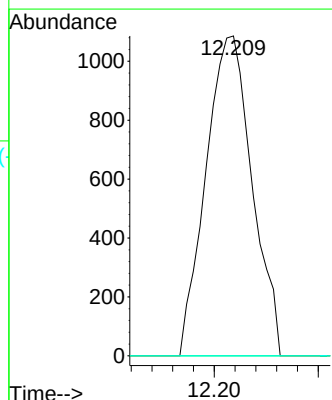
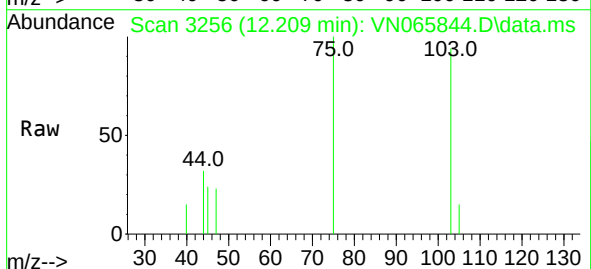
Instrument :
MSVOA_N
ClientSampled :

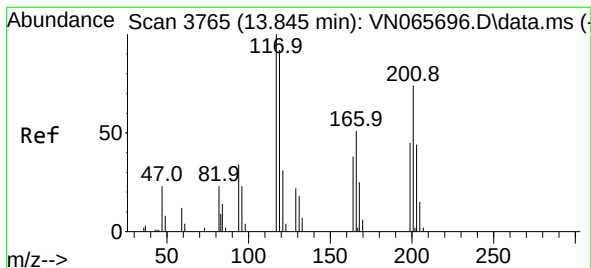
Tgt Ion: 75 Resp: 32420
Ion Ratio Lower Upper
75 100
77 1.2 0.0 366.4



#77
t-1,4-Dichloro-2-butene
Concen: 1.64 ug/l
RT: 12.209 min Scan# 3256
Delta R.T. -0.061 min
Lab File: VN065844.D
Acq: 12 Feb 2021 17:33

Tgt Ion: 75 Resp: 1680
Ion Ratio Lower Upper
75 100
53 0.0 44.9 134.5#
89 0.0 21.3 64.0#





#86

Hexachloroethane

Concen: 0.73 ug/l

RT: 13.849 min Scan# 3766

Delta R.T. 0.004 min

Lab File: VN065844.D

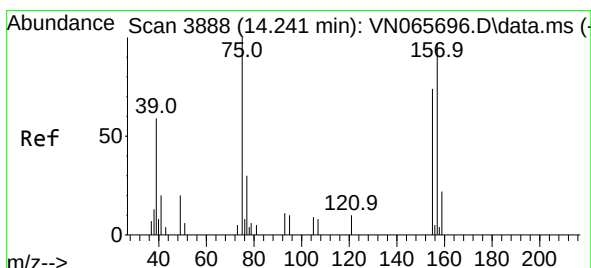
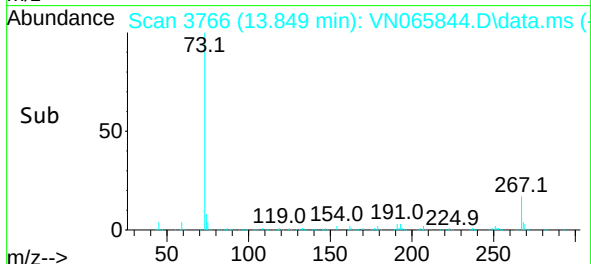
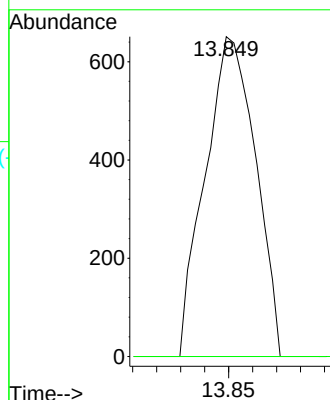
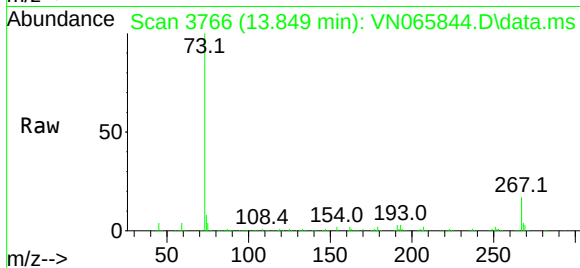
Acq: 12 Feb 2021 17:33

Tgt Ion:117 Resp: 951

Ion Ratio Lower Upper

117 100

201 0.0 48.4 145.3#



#88

1,2-Dibromo-3-Chloropropane

Concen: 1.06 ug/l

RT: 13.904 min Scan# 3783

Delta R.T. -0.337 min

Lab File: VN065844.D

Acq: 12 Feb 2021 17:33

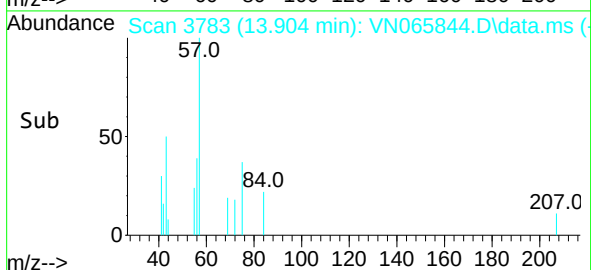
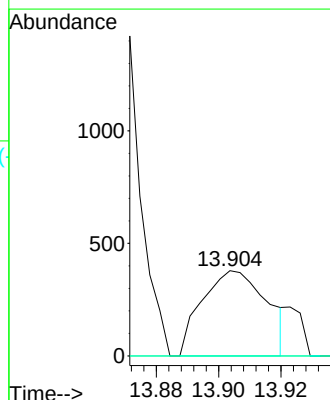
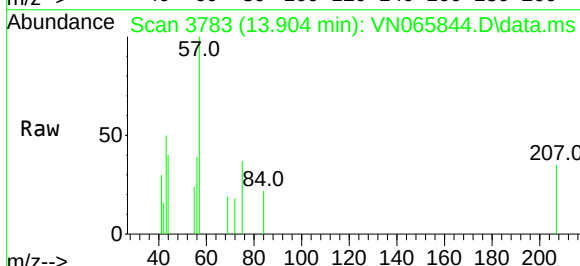
Tgt Ion: 75 Resp: 546

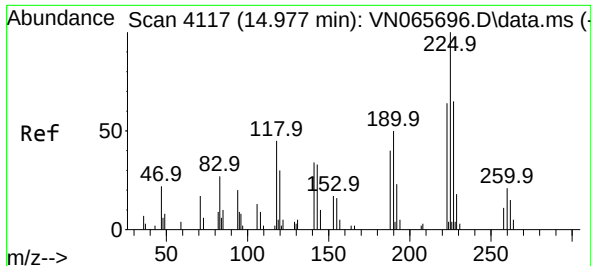
Ion Ratio Lower Upper

75 100

155 0.0 76.9 115.3#

157 0.0 105.8 158.8#

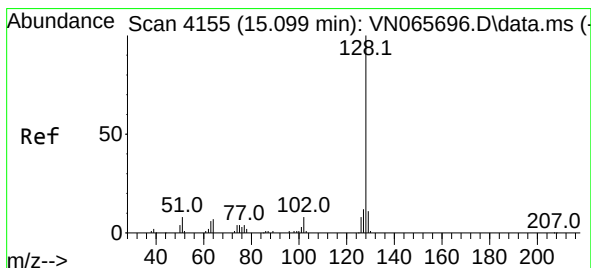
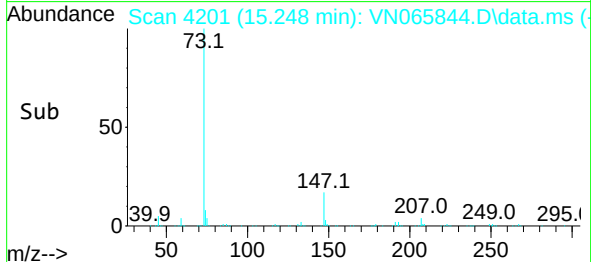
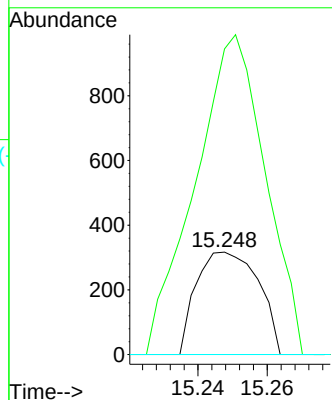
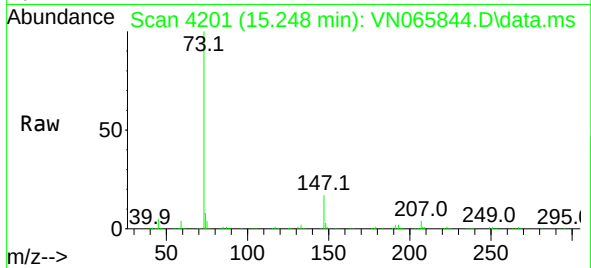




#90
Hexachlorobutadiene
Concen: 0.46 ug/l
RT: 15.248 min Scan# 4201
Delta R.T. 0.270 min
Lab File: VN065844.D
Acq: 12 Feb 2021 17:33

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion:225 Resp: 395
Ion Ratio Lower Upper
225 100
223 352.7 0.0 122.0#
227 0.0 0.0 126.4



#91
Naphthalene
Concen: 0.49 ug/l
RT: 15.106 min Scan# 4157
Delta R.T. 0.007 min
Lab File: VN065844.D
Acq: 12 Feb 2021 17:33

Tgt Ion:128 Resp: 2946
Ion Ratio Lower Upper
128 100
127 6.3 10.1 15.1#
129 7.7 8.6 12.8#

