

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010521\
 Data File : VN065386.D
 Acq On : 5 Jan 2021 14:23
 Operator : JC/MD
 Sample : L5248-05
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

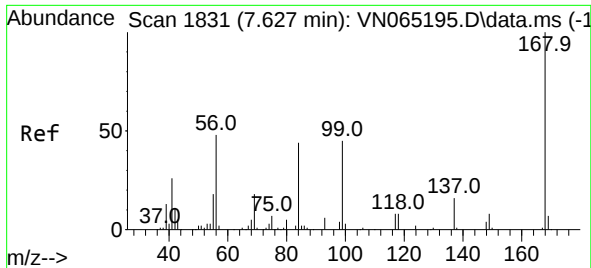
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Quant Time: Jan 06 01:16:32 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122220W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 22 15:42:18 2020
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.631	168	261903	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.553	114	442099	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.380	117	472417	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.318	152	188748	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.991	65	150744	50.98	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 101.96%			
35) Dibromofluoromethane	7.557	113	135625	50.85	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 101.70%			
50) Toluene-d8	10.061	98	554011	55.42	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 110.84%			
62) 4-Bromofluorobenzene	12.376	95	209014	52.58	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 105.16%			
Target Compounds					Qvalue	
13) Acrolein	3.586	56	94	2.70	ug/l #	63
14) Allyl chloride	4.055	41	931	0.22	ug/l #	66
16) Acetone	3.795	43	31488	15.28	ug/l	97
17) Carbon Disulfide	4.013	76	1565	0.24	ug/l #	75
18) Methyl Acetate	4.303	43	1324	0.50	ug/l #	50
20) Methylene Chloride	4.512	84	6166	2.14	ug/l	98
25) 2-Butanone	6.804	43	6405	3.86	ug/l	94
29) Tetrahydrofuran	7.184	42	10005	9.32	ug/l	96
31) Cyclohexane	7.627	56	4008	0.92	ug/l #	7
36) 1,1-Dichloropropene	7.627	75	17125	4.26	ug/l #	49
37) Ethyl Acetate	6.804	43	6405	1.61	ug/l #	66
38) Carbon Tetrachloride	7.627	117	21740	5.15	ug/l #	16
41) Methacrylonitrile	7.180	41	5894	2.84	ug/l #	32
43) Isopropyl Acetate	8.135	43	3890	0.57	ug/l #	81
48) Methyl methacrylate	9.148	41	5792	1.74	ug/l #	21
51) 4-Methyl-2-Pentanone	9.955	43	4365	1.13	ug/l	98
52) Toluene	10.126	92	23538	3.12	ug/l	98
54) cis-1,3-Dichloropropene	9.878	75	26723	5.01	ug/l #	61
57) 1,3-Dichloropropane	10.737	76	5989	1.22	ug/l #	42
59) 2-Hexanone	10.737	43	82841	29.19	ug/l #	50
71) Bromoform	12.376	173	1274	0.40	ug/l #	1
74) N-amyl acetate	12.010	43	1398	0.24	ug/l #	42
76) 1,2,3-Trichloropropane	12.376	75	100484	26.10	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.376	75	100484	65.80	ug/l #	15
86) p-Isopropyltoluene	13.264	119	12175	0.96	ug/l	95
87) 1,3-Dichlorobenzene	13.338	146	61238	9.75	ug/l	98
88) 1,4-Dichlorobenzene	13.338	146	61238	9.71	ug/l	98
95) Naphthalene	15.113	128	3632	3.72	ug/l #	85

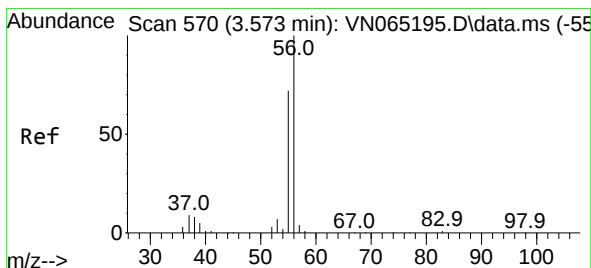
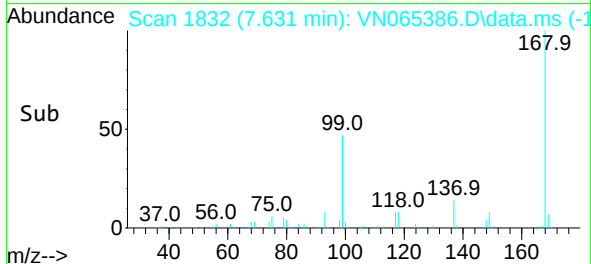
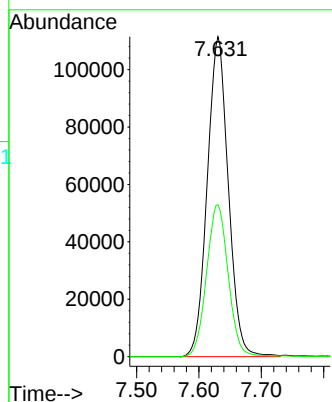
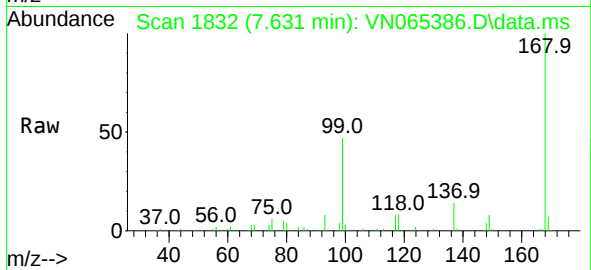
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.631 min Scan# 1832
Delta R.T. 0.004 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

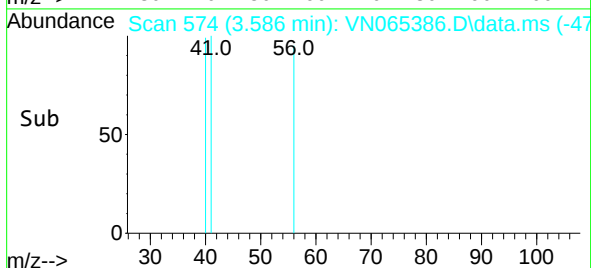
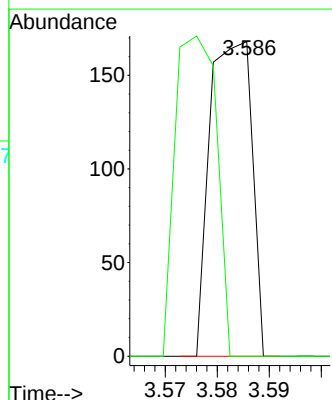
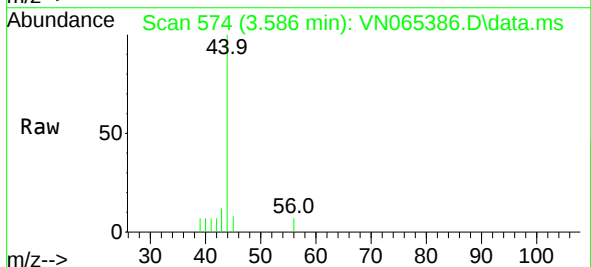
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

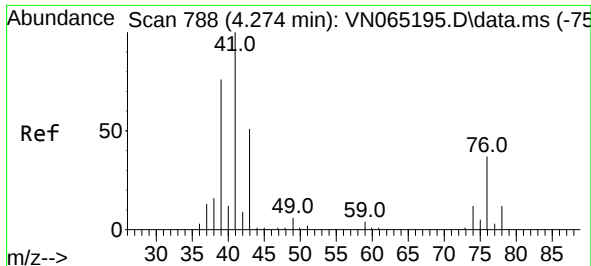
Tgt Ion:168 Resp: 261903
Ion Ratio Lower Upper
168 100
99 47.5 43.0 64.4



#13
Acrolein
Concen: 2.70 ug/l
RT: 3.586 min Scan# 574
Delta R.T. 0.013 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

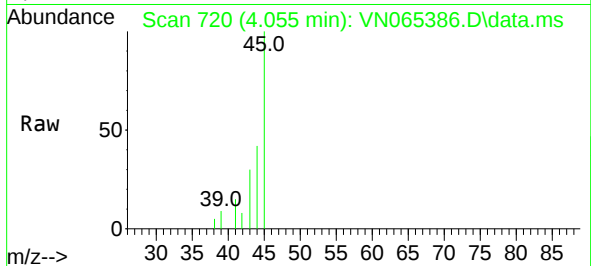
Tgt Ion: 56 Resp: 94
Ion Ratio Lower Upper
56 100
55 101.1 56.5 84.7#



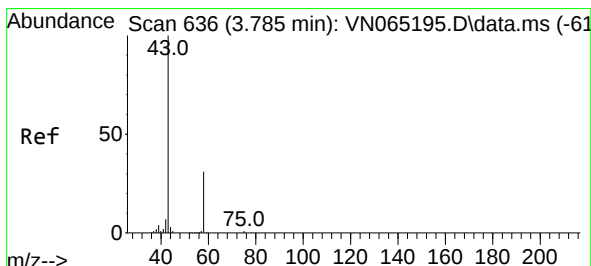
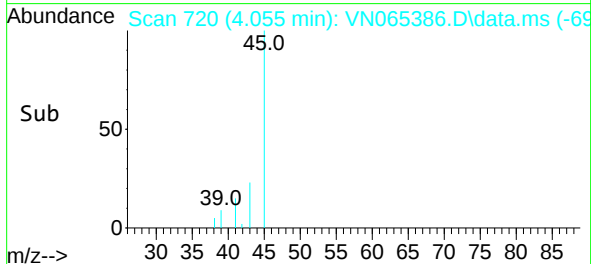
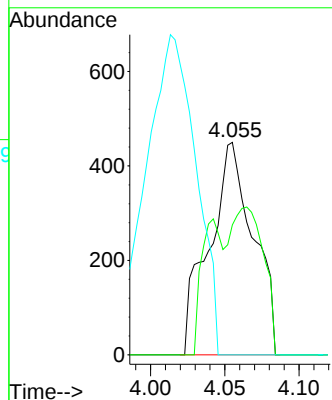


#14
Allyl chloride
Concen: 0.22 ug/l
RT: 4.055 min Scan# 720
Delta R.T. -0.219 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

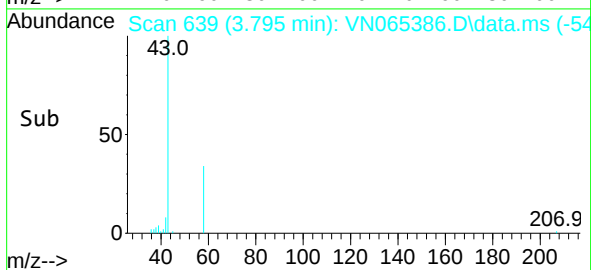
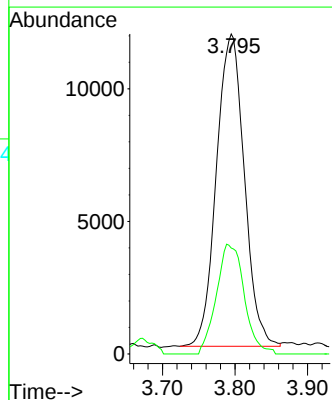
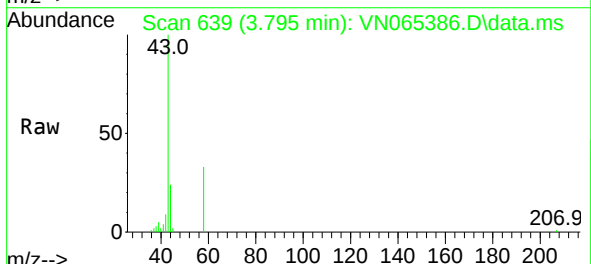


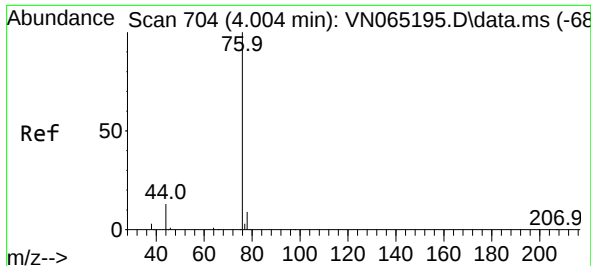
Tgt Ion: 41 Resp: 931
Ion Ratio Lower Upper
41 100
39 49.0 50.9 76.3#
76 0.0 29.0 43.4#



#16
Acetone
Concen: 15.28 ug/l
RT: 3.795 min Scan# 639
Delta R.T. 0.010 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

Tgt Ion: 43 Resp: 31488
Ion Ratio Lower Upper
43 100
58 33.9 25.7 38.5

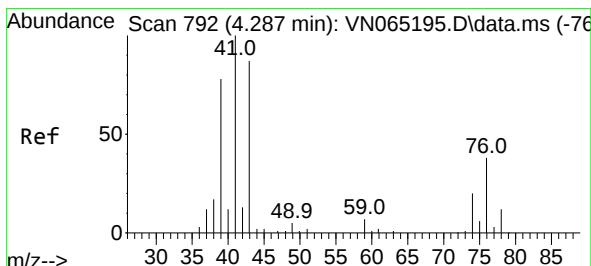
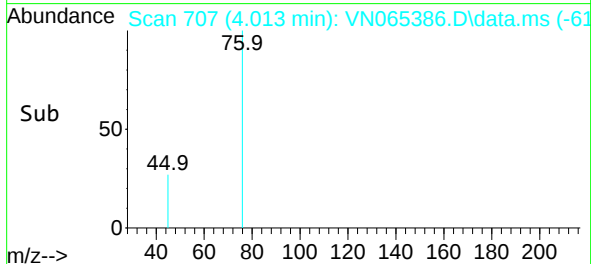
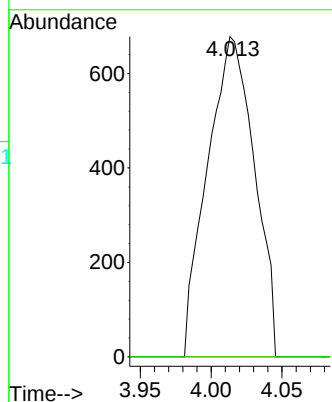
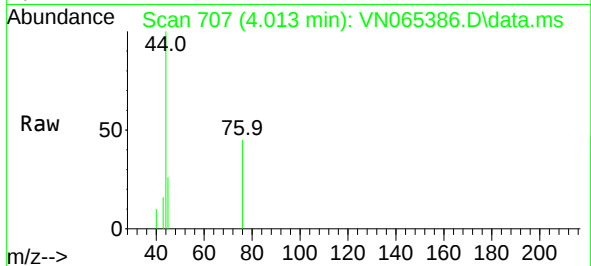




#17
Carbon Disulfide
Concen: 0.24 ug/l
RT: 4.013 min Scan# 707
Delta R.T. 0.009 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

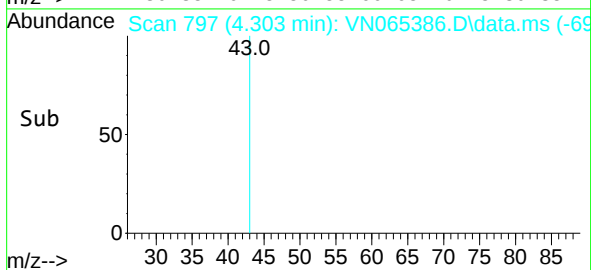
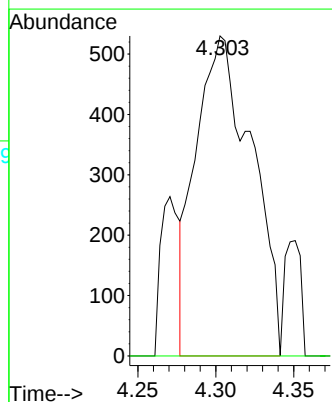
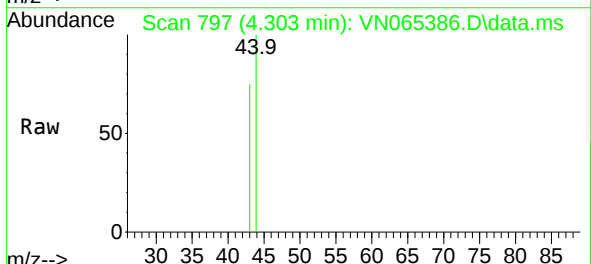
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

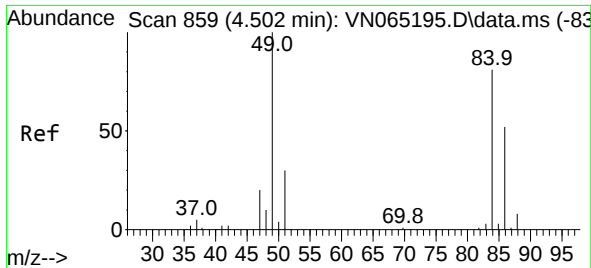
Tgt Ion: 76 Resp: 1565
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methyl Acetate
Concen: 0.50 ug/l
RT: 4.303 min Scan# 797
Delta R.T. 0.016 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

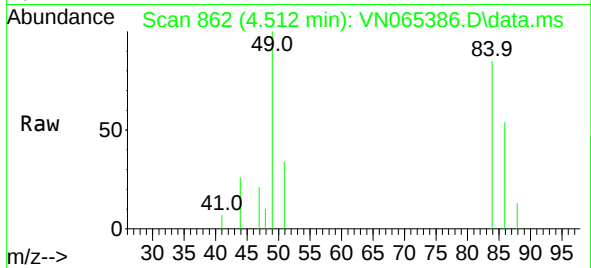
Tgt Ion: 43 Resp: 1324
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#



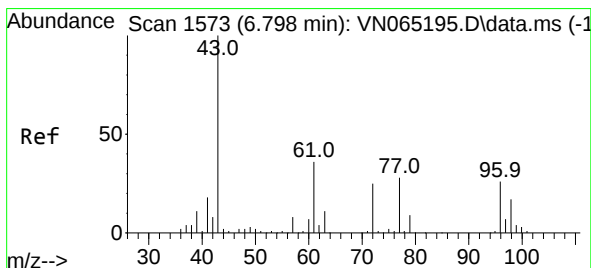
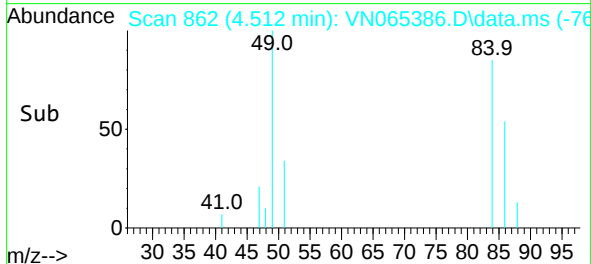
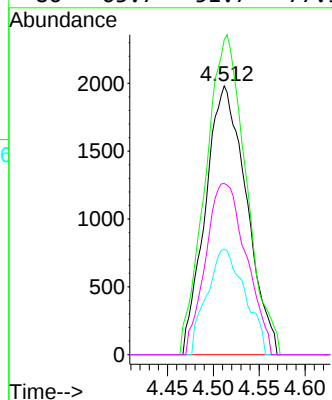


#20
Methylene Chloride
Concen: 2.14 ug/l
RT: 4.512 min Scan# 862
Delta R.T. 0.010 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

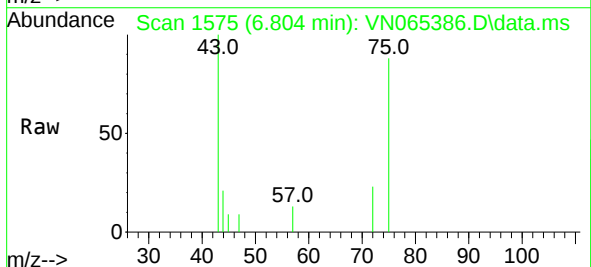
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



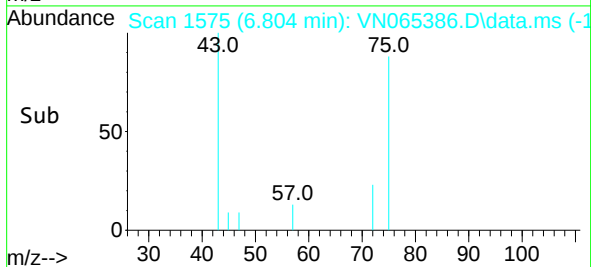
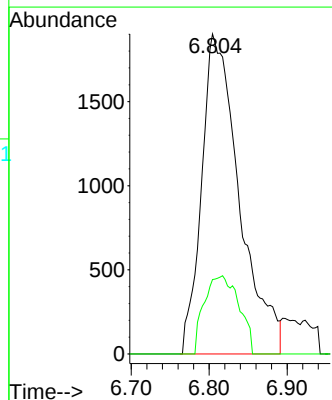
Tgt Ion:	84	Resp:	6166
Ion	Ratio	Lower	Upper
84	100		
49	117.2	93.4	140.0
51	39.3	28.2	42.4
86	63.7	51.7	77.5

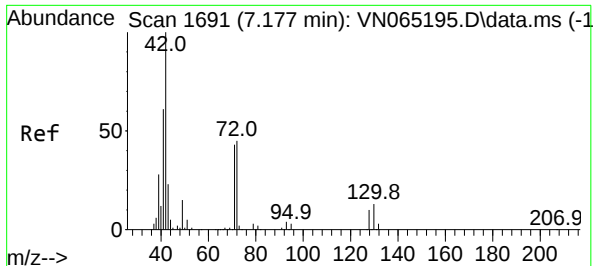


#25
2-Butanone
Concen: 3.86 ug/l
RT: 6.804 min Scan# 1575
Delta R.T. 0.006 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23



Tgt Ion:	43	Resp:	6405
Ion	Ratio	Lower	Upper
43	100		
72	23.2	21.0	31.6





#29

Tetrahydrofuran

Concen: 9.32 ug/l

RT: 7.184 min Scan# 1693

Delta R.T. 0.007 min

Lab File: VN065386.D

Acq: 5 Jan 2021 14:23

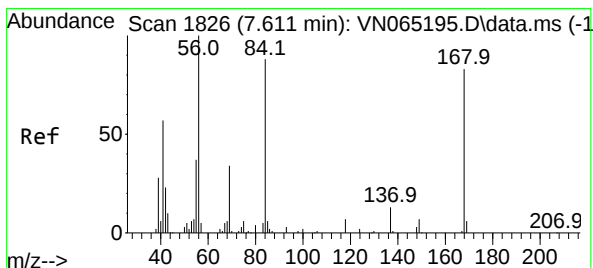
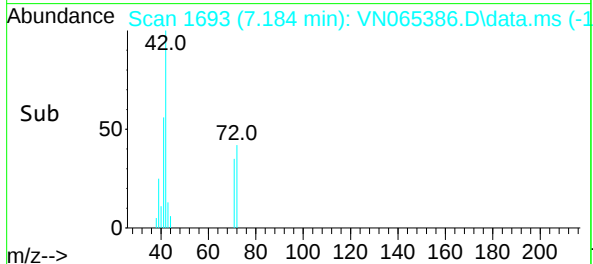
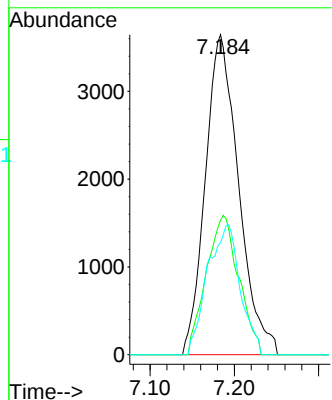
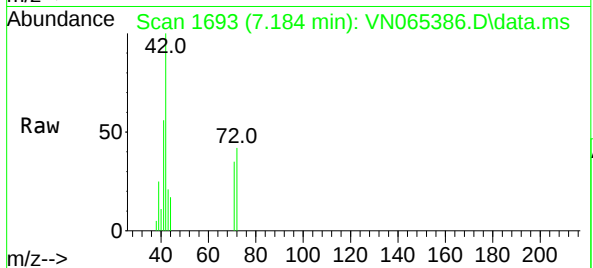
Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:	42	Resp:	10005
Ion	Ratio	Lower	Upper
42	100		
72	42.6	36.6	54.8
71	39.9	33.6	50.4



#31

Cyclohexane

Concen: 0.92 ug/l

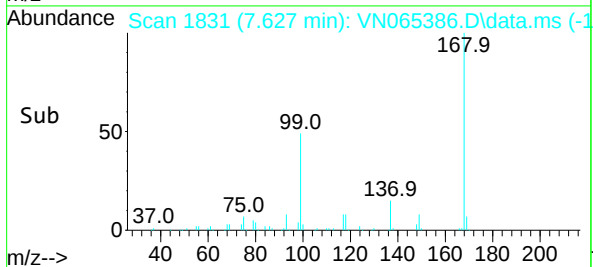
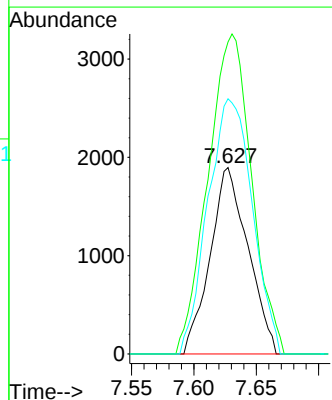
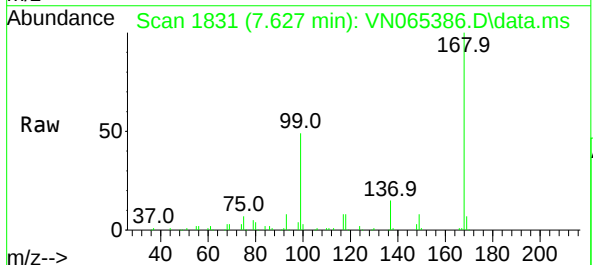
RT: 7.627 min Scan# 1831

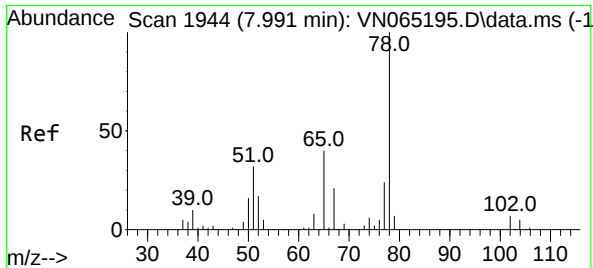
Delta R.T. 0.016 min

Lab File: VN065386.D

Acq: 5 Jan 2021 14:23

Tgt Ion:	56	Resp:	4008
Ion	Ratio	Lower	Upper
56	100		
69	159.0	27.5	41.3#
84	137.0	73.9	110.9#

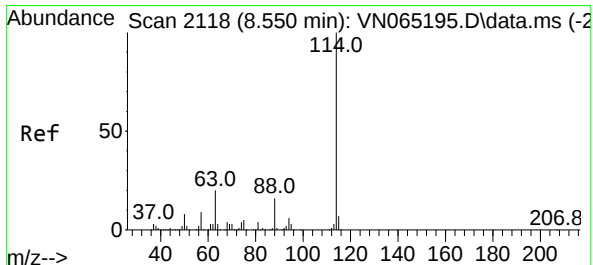
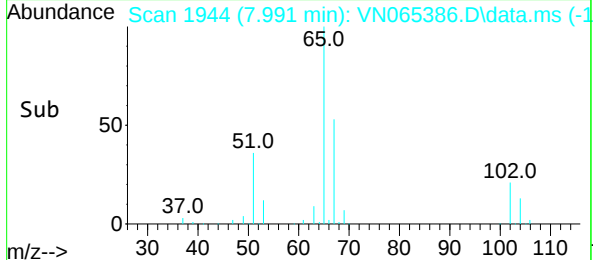
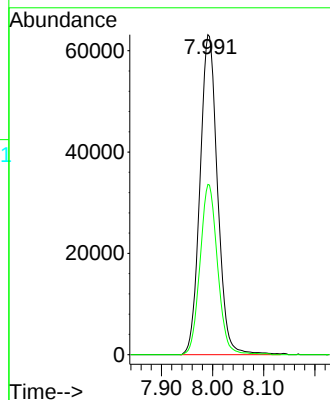
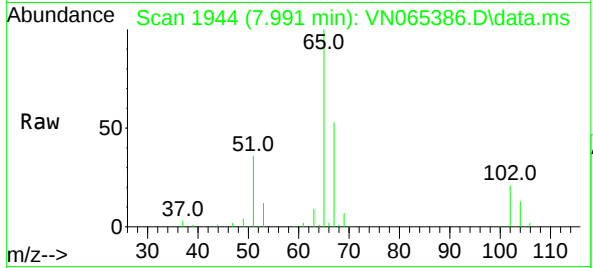




#33
1,2-Dichloroethane-d4
Concen: 50.98 ug/l
RT: 7.991 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

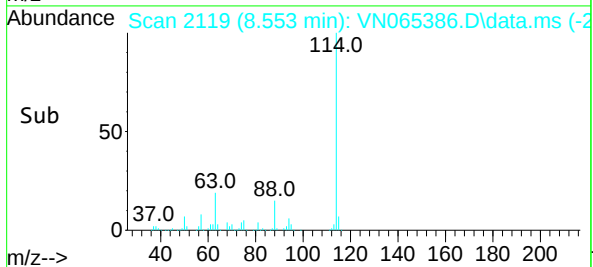
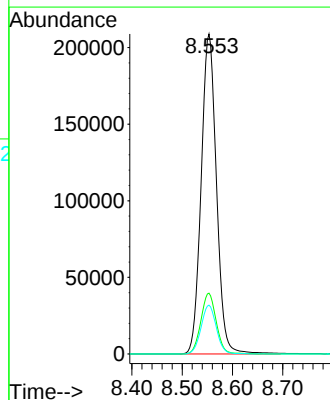
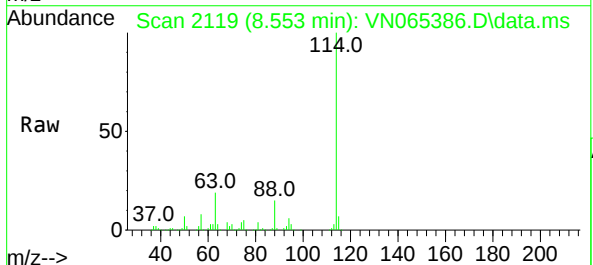
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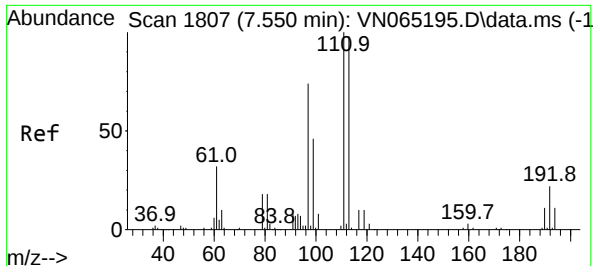
Tgt Ion: 65 Resp: 150744
Ion Ratio Lower Upper
65 100
67 52.9 0.0 108.2



#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.553 min Scan# 2119
Delta R.T. 0.003 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

Tgt Ion: 114 Resp: 442099
Ion Ratio Lower Upper
114 100
63 19.0 0.0 38.6
88 15.2 0.0 32.6

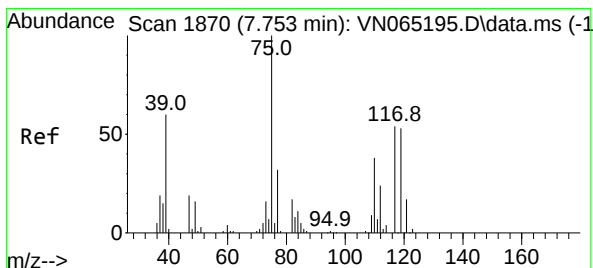
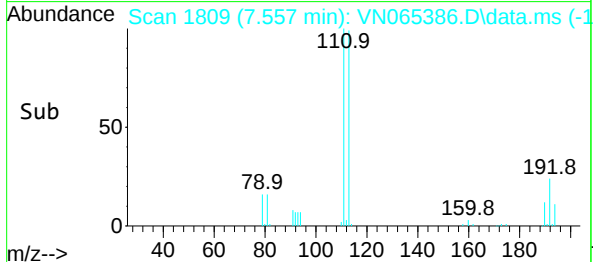
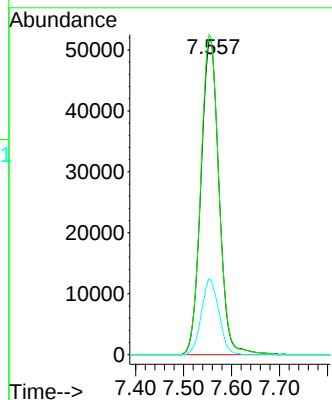
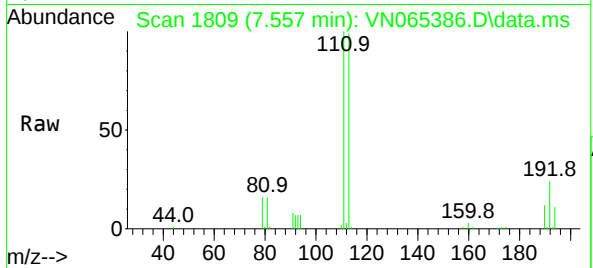




#35
Dibromofluoromethane
Concen: 50.85 ug/l
RT: 7.557 min Scan# 1809
Delta R.T. 0.007 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

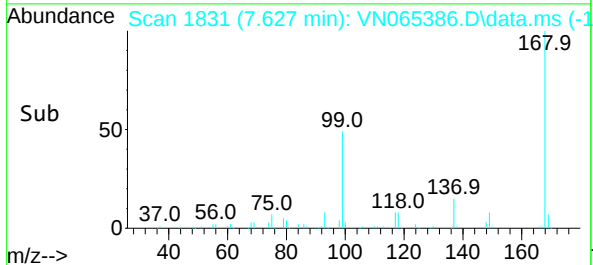
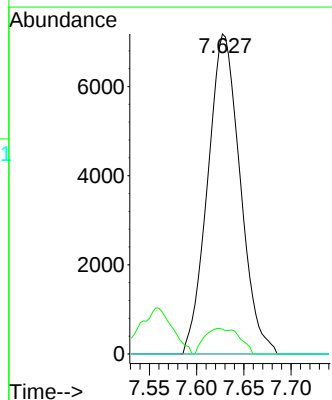
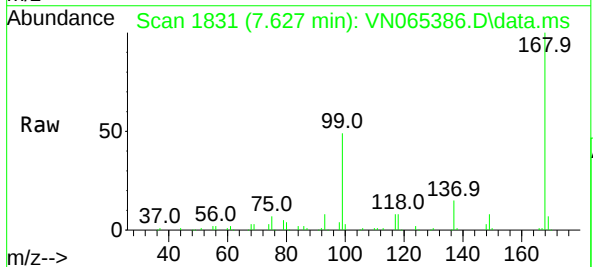
Instrument :
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ClientSampleId :
VSTDCCC050EC

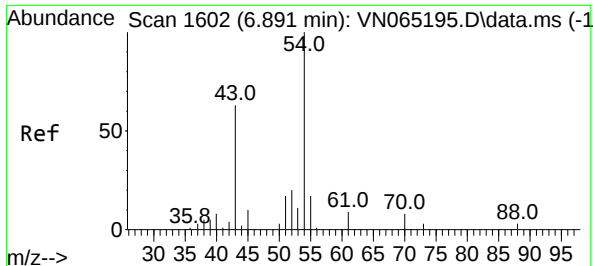
Tgt Ion:113 Resp: 135625
Ion Ratio Lower Upper
113 100
111 101.6 81.6 122.4
192 23.2 16.2 24.2



#36
1,1-Dichloropropene
Concen: 4.26 ug/l
RT: 7.627 min Scan# 1831
Delta R.T. -0.126 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

Tgt Ion: 75 Resp: 17125
Ion Ratio Lower Upper
75 100
110 8.5 17.8 53.3#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 1.61 ug/l

RT: 6.804 min Scan# 1575

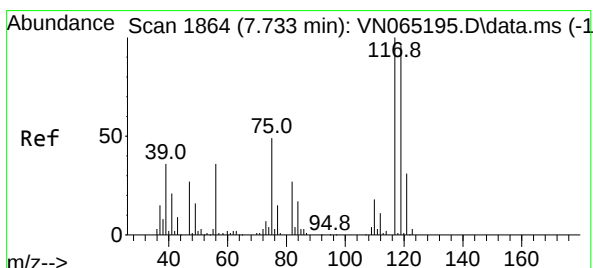
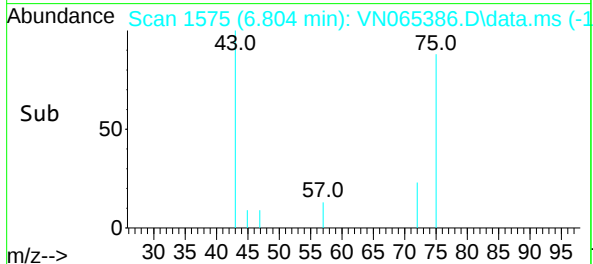
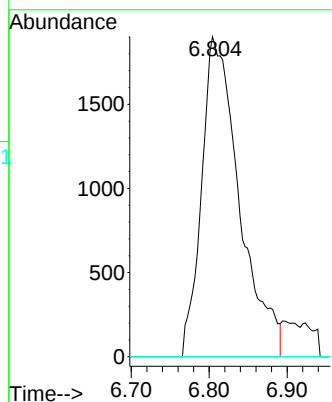
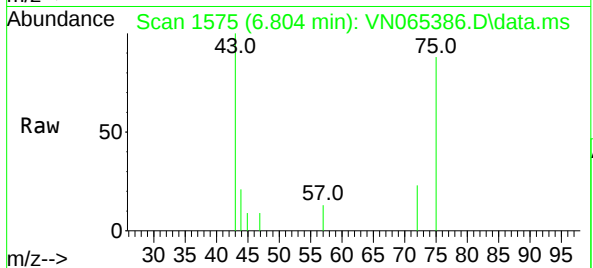
Delta R.T. -0.087 min

Lab File: VN065386.D

Acq: 5 Jan 2021 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43	Resp: 6405
Ion Ratio	Lower Upper
43 100	
61 0.0	12.8 19.2#
70 0.0	8.8 13.2#



#38

Carbon Tetrachloride

Concen: 5.15 ug/l

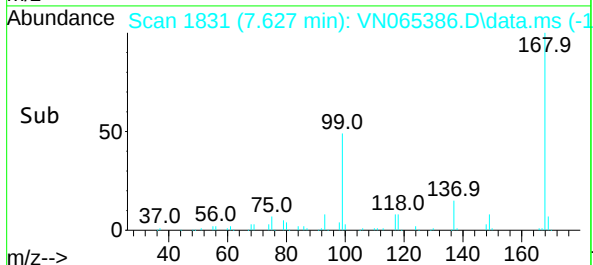
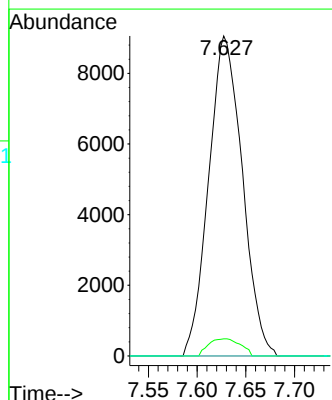
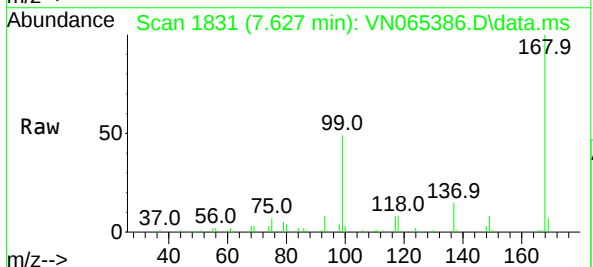
RT: 7.627 min Scan# 1831

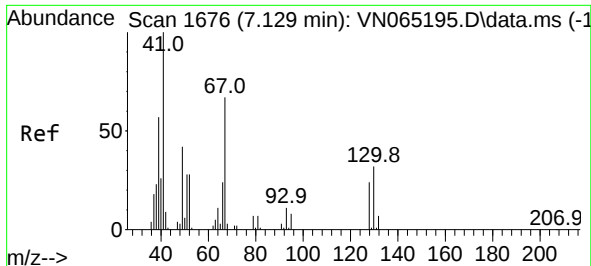
Delta R.T. -0.106 min

Lab File: VN065386.D

Acq: 5 Jan 2021 14:23

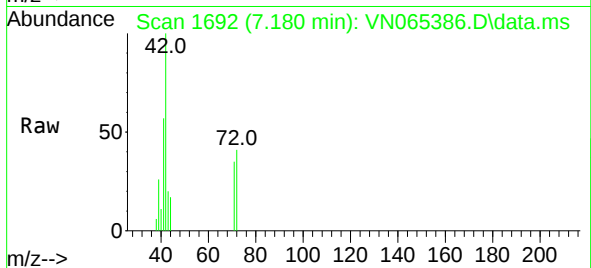
Tgt Ion: 117	Resp: 21740
Ion Ratio	Lower Upper
117 100	
119 5.3	76.7 115.1#
121 0.0	25.4 38.2#



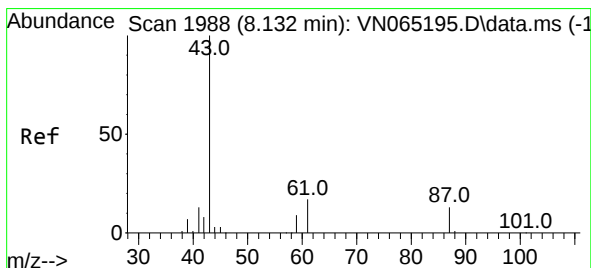
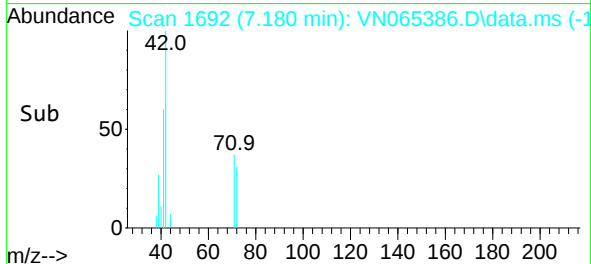
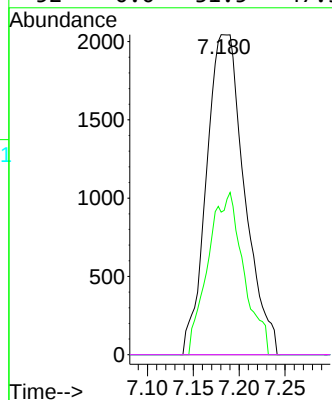


#41
Methacrylonitrile
Concen: 2.84 ug/l
RT: 7.180 min Scan# 1692
Delta R.T. 0.051 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

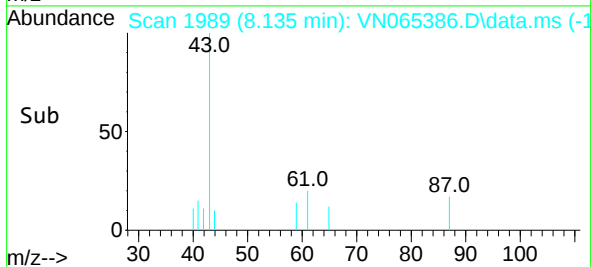
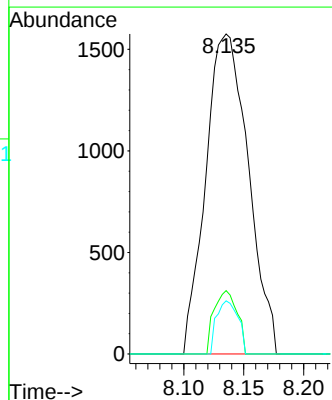
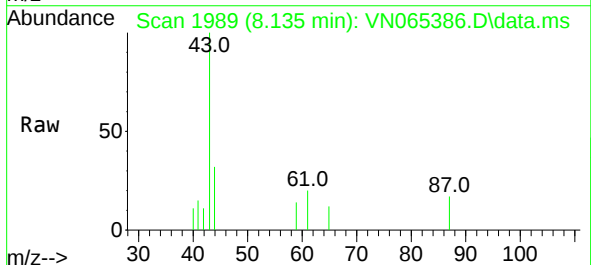


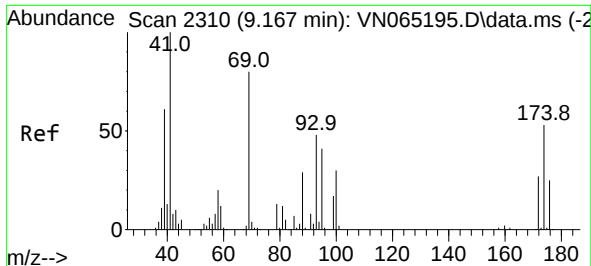
Tgt Ion:	41	Resp:	5894
Ion	Ratio	Lower	Upper
41	100		
39	47.5	51.0	76.6#
67	0.0	79.8	119.8#
52	0.0	31.5	47.3#



#43
Isopropyl Acetate
Concen: 0.57 ug/l
RT: 8.135 min Scan# 1989
Delta R.T. 0.003 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

Tgt Ion:	43	Resp:	3890
Ion	Ratio	Lower	Upper
43	100		
61	10.7	17.2	25.8#
87	8.3	11.4	17.0#

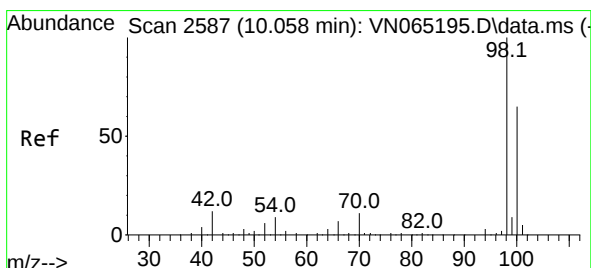
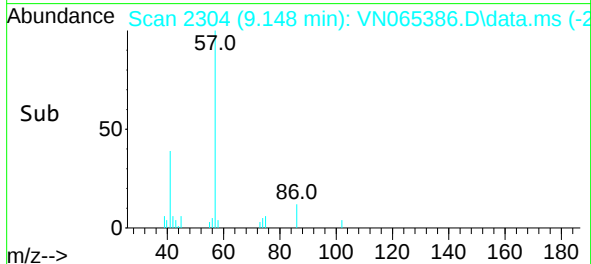
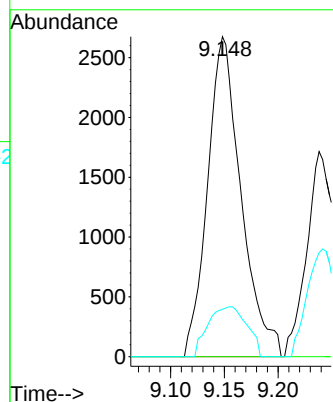
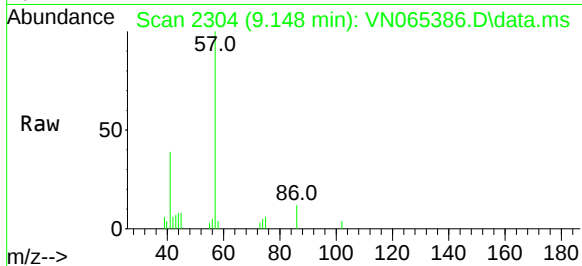




#48
Methyl methacrylate
Concen: 1.74 ug/l
RT: 9.148 min Scan# 2304
Delta R.T. -0.019 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

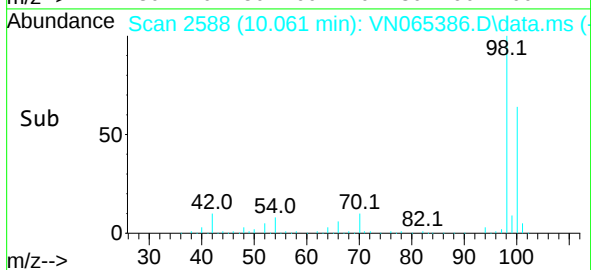
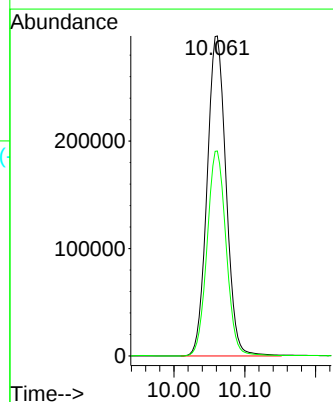
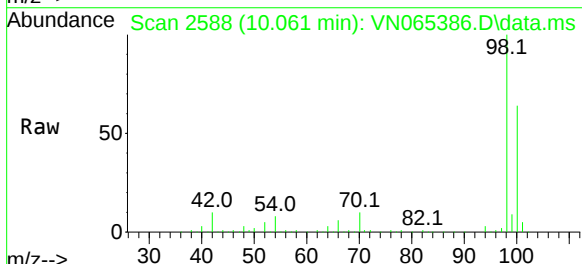
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

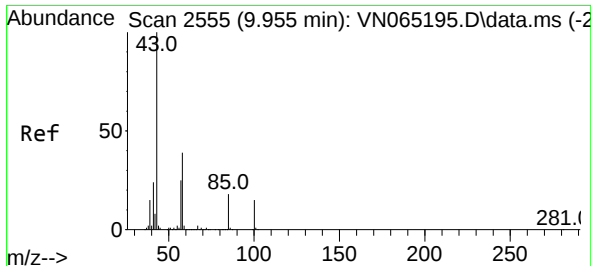
Tgt Ion: 41 Resp: 5792
Ion Ratio Lower Upper
41 100
69 0.0 71.8 107.8#
39 18.1 44.1 66.1#



#50
Toluene-d8
Concen: 55.42 ug/l
RT: 10.061 min Scan# 2588
Delta R.T. 0.003 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

Tgt Ion: 98 Resp: 554011
Ion Ratio Lower Upper
98 100
100 64.2 51.7 77.5

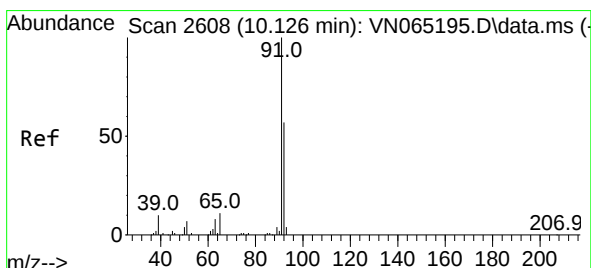
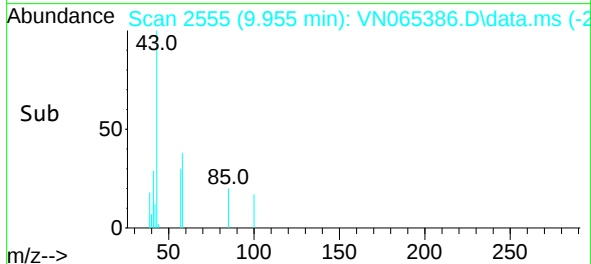
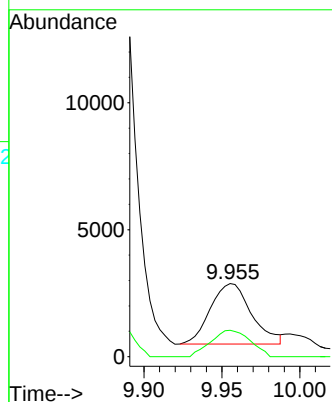
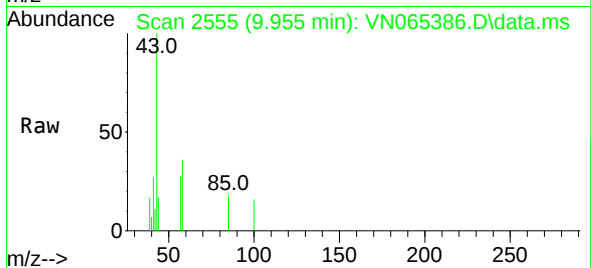




#51
4-Methyl-2-Pentanone
Concen: 1.13 ug/l
RT: 9.955 min Scan# 2555
Delta R.T. 0.000 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

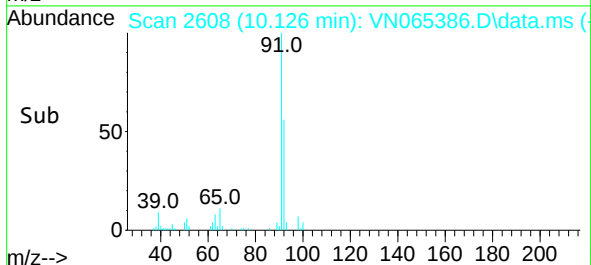
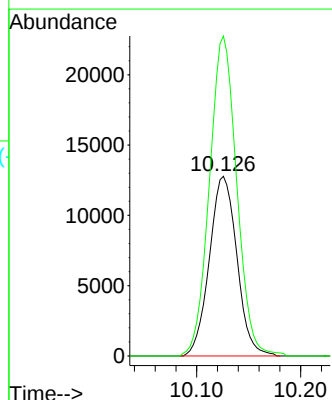
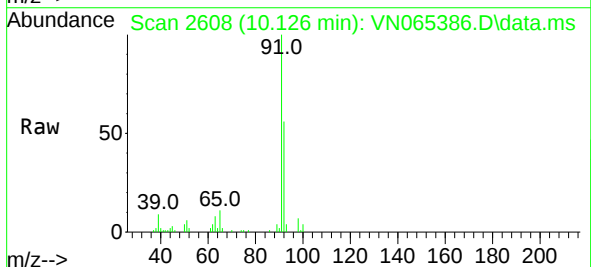
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

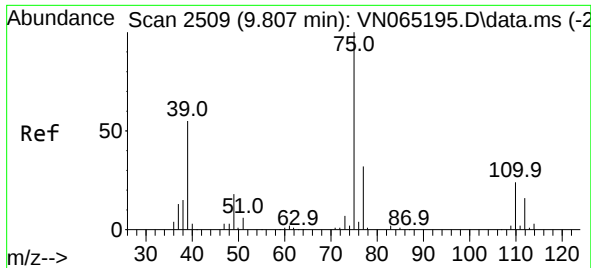
Tgt Ion: 43 Resp: 4365
Ion Ratio Lower Upper
43 100
58 41.8 32.4 48.6



#52
Toluene
Concen: 3.12 ug/l
RT: 10.126 min Scan# 2608
Delta R.T. -0.000 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

Tgt Ion: 92 Resp: 23538
Ion Ratio Lower Upper
92 100
91 176.5 139.1 208.7

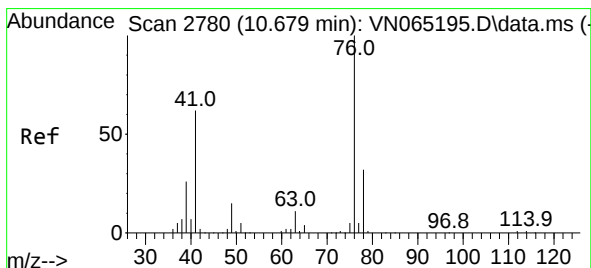
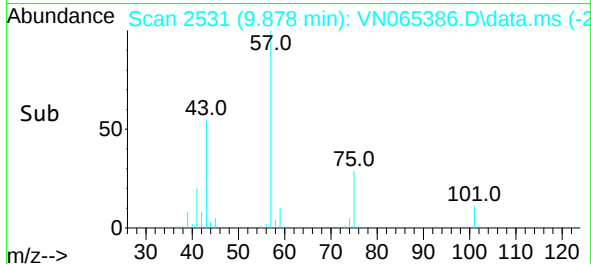
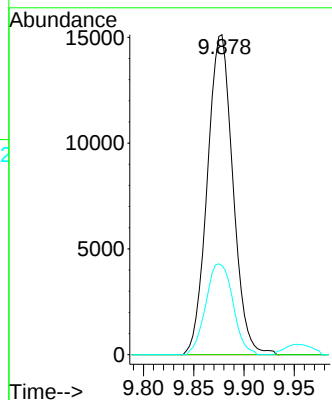
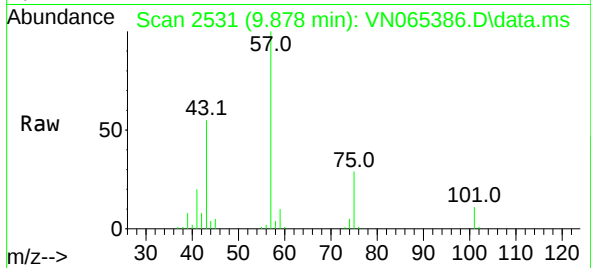




#54
 cis-1,3-Dichloropropene
 Concen: 5.01 ug/l
 RT: 9.878 min Scan# 2531
 Delta R.T. 0.071 min
 Lab File: VN065386.D
 Acq: 5 Jan 2021 14:23

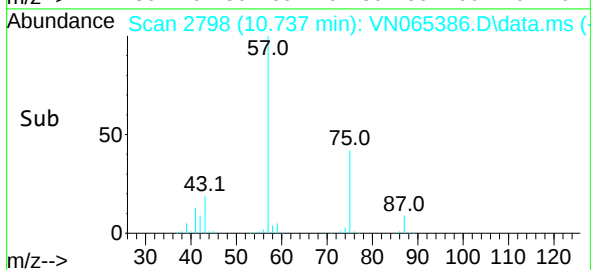
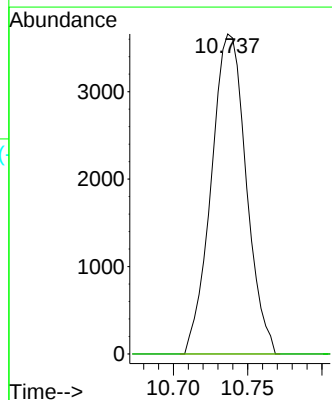
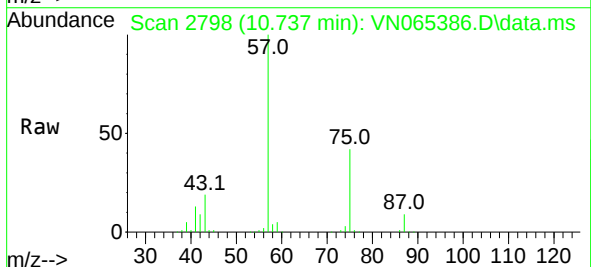
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

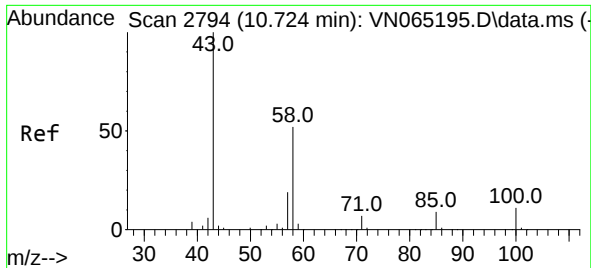
Tgt Ion: 75 Resp: 26723
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 27.8 35.6 53.4#



#57
 1,3-Dichloropropane
 Concen: 1.22 ug/l
 RT: 10.737 min Scan# 2798
 Delta R.T. 0.058 min
 Lab File: VN065386.D
 Acq: 5 Jan 2021 14:23

Tgt Ion: 76 Resp: 5989
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

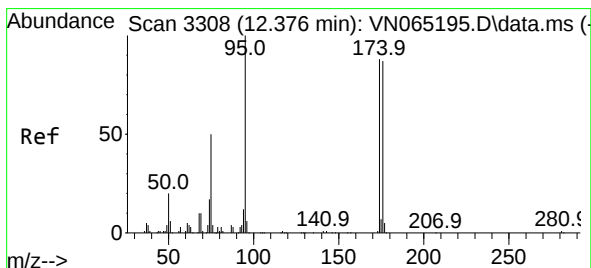
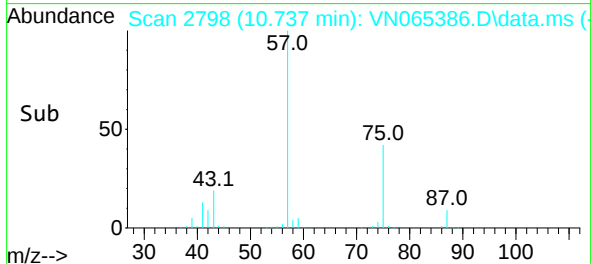
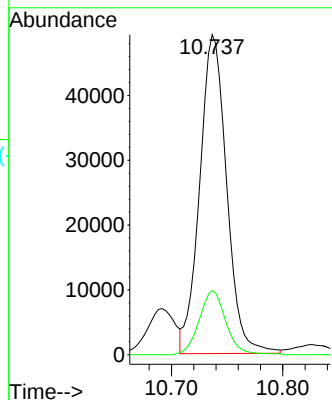
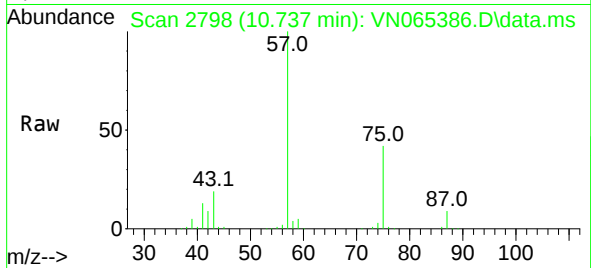




#59
2-Hexanone
Concen: 29.19 ug/l
RT: 10.737 min Scan# 2798
Delta R.T. 0.013 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

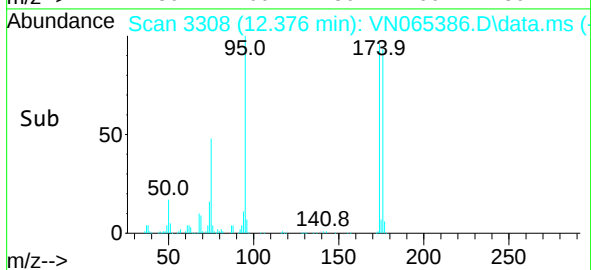
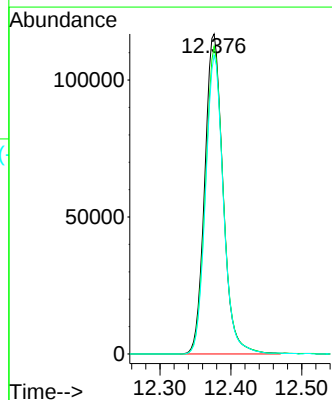
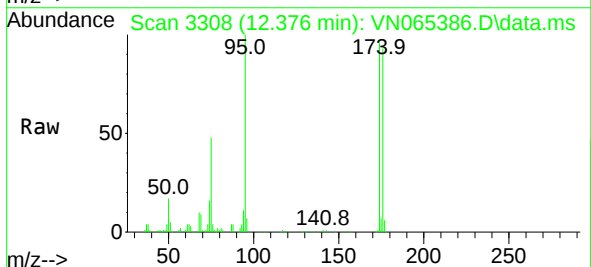
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

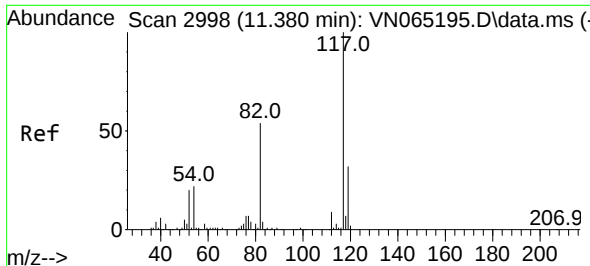
Tgt Ion: 43 Resp: 82841
Ion Ratio Lower Upper
43 100
58 19.9 28.3 84.9#



#62
4-Bromofluorobenzene
Concen: 52.58 ug/l
RT: 12.376 min Scan# 3308
Delta R.T. 0.000 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

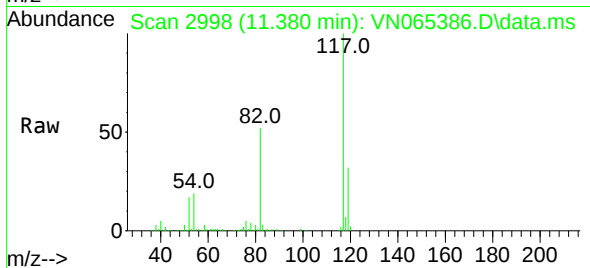
Tgt Ion: 95 Resp: 209014
Ion Ratio Lower Upper
95 100
174 94.5 0.0 160.4
176 91.3 0.0 158.4



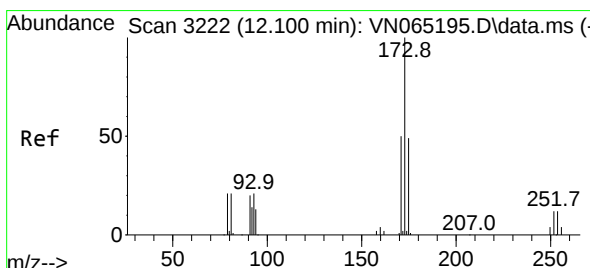
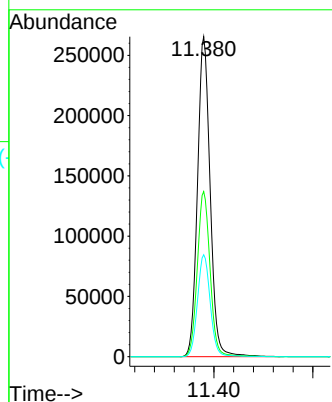
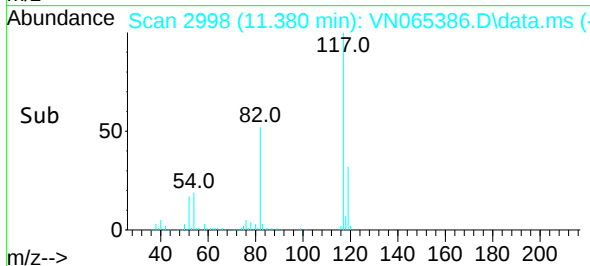


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.380 min Scan# 2998
Delta R.T. -0.000 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

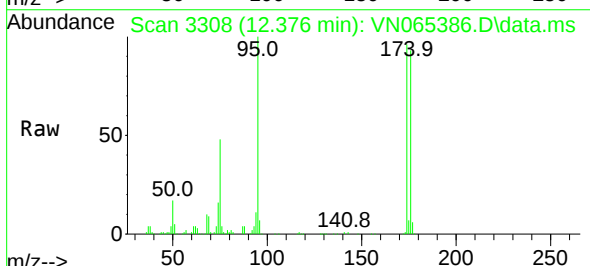
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



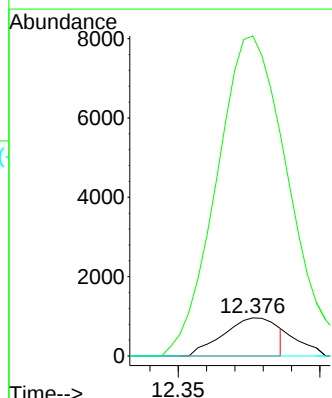
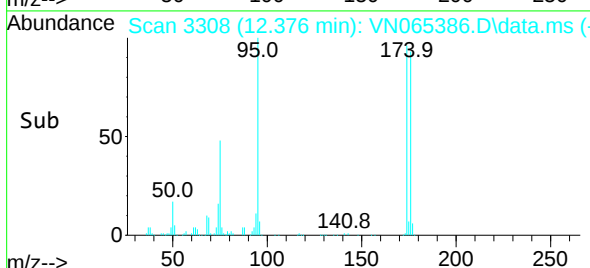
Tgt Ion:117 Resp: 472417
Ion Ratio Lower Upper
117 100
82 51.6 44.2 66.2
119 31.9 25.8 38.6

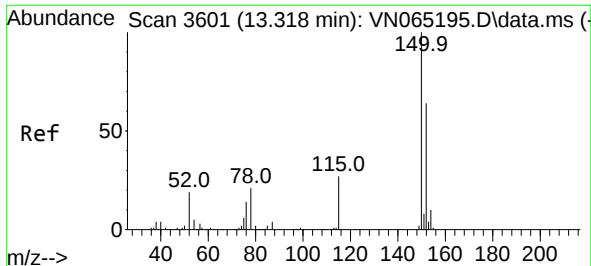


#71
Bromoform
Concen: 0.40 ug/l
RT: 12.376 min Scan# 3308
Delta R.T. 0.276 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23



Tgt Ion:173 Resp: 1274
Ion Ratio Lower Upper
173 100
175 913.9 24.3 72.8#
254 0.0 0.0 0.0

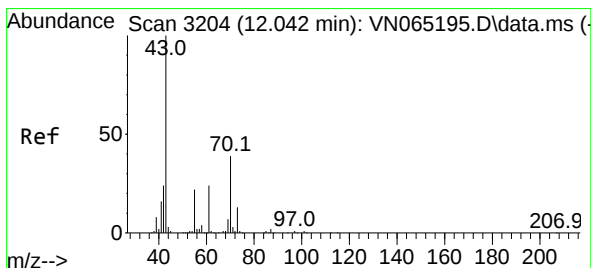
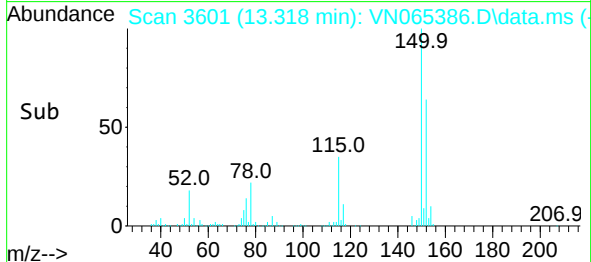
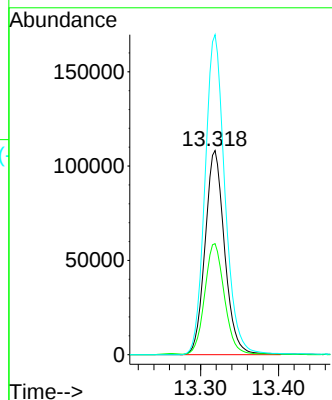
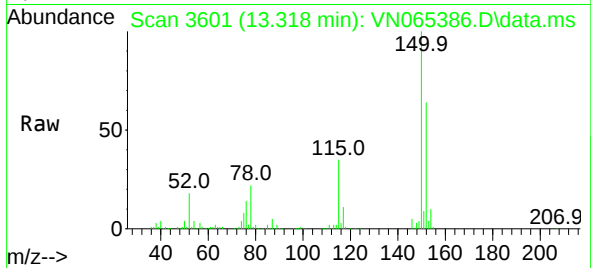




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.318 min Scan# 3601
Delta R.T. 0.000 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

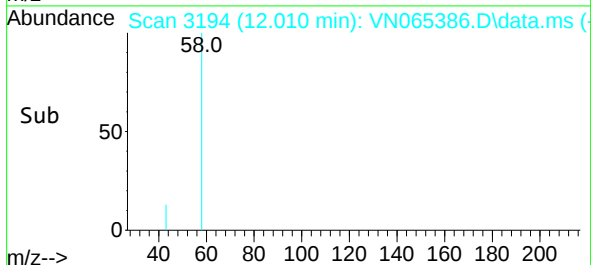
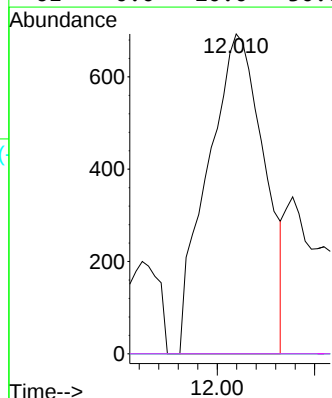
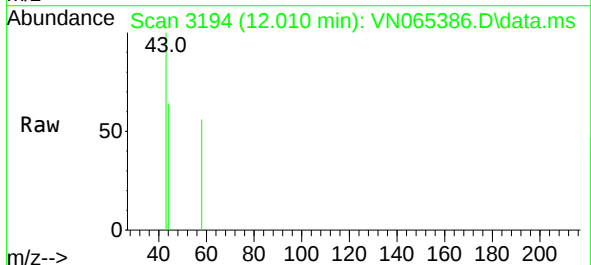
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

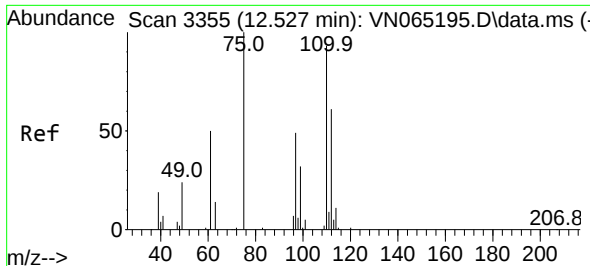
Tgt Ion:152 Resp: 188748
Ion Ratio Lower Upper
152 100
115 53.9 29.7 89.1
150 160.3 0.0 350.6



#74
N-ethyl acetate
Concen: 0.24 ug/l
RT: 12.010 min Scan# 3194
Delta R.T. -0.032 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

Tgt Ion: 43 Resp: 1398
Ion Ratio Lower Upper
43 100
70 0.0 34.5 51.7#
55 0.0 20.4 30.6#
61 0.0 20.0 30.0#

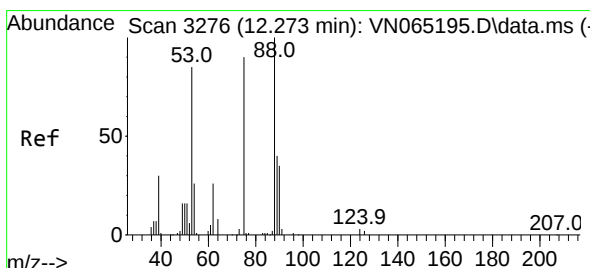
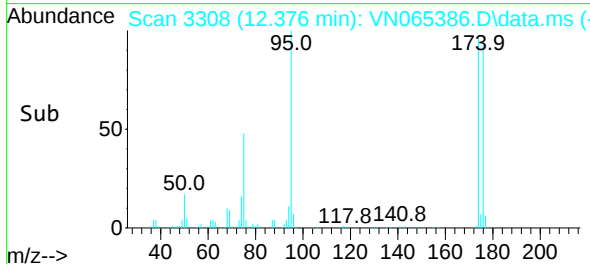
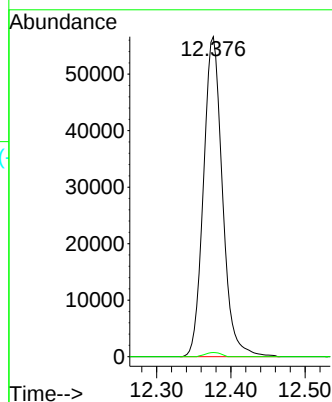
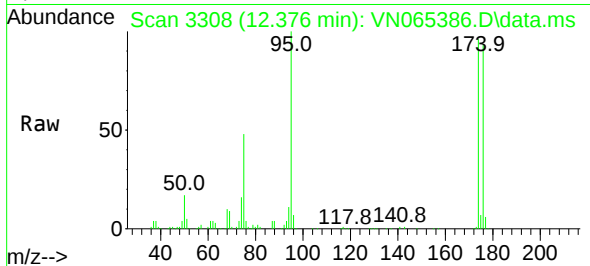




#76
1,2,3-Trichloropropane
Concen: 26.10 ug/l
RT: 12.376 min Scan# 3308
Delta R.T. -0.151 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

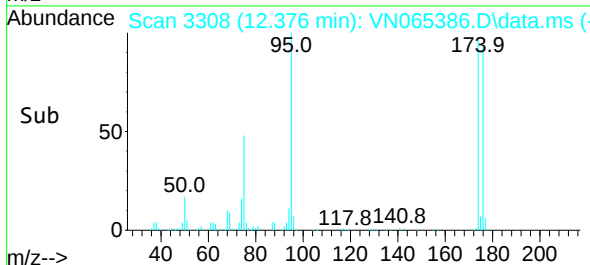
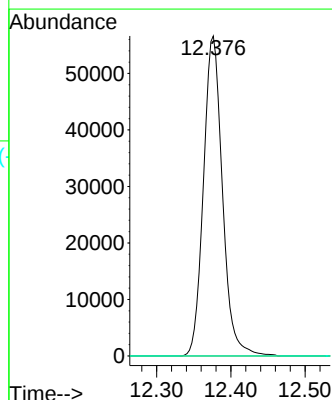
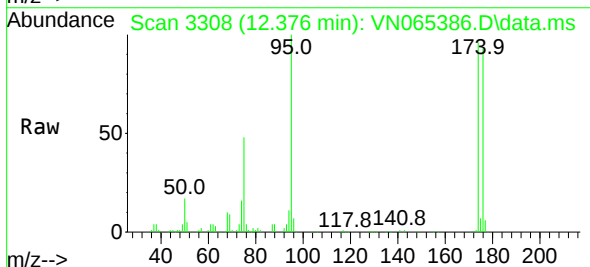
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

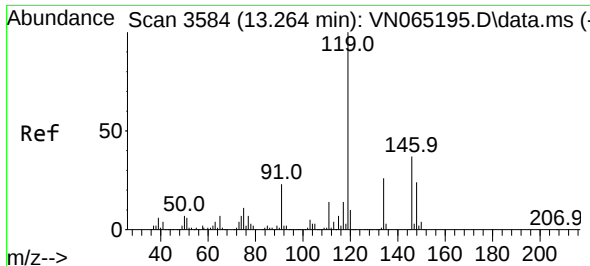
Tgt Ion: 75 Resp: 100484
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 65.80 ug/l
RT: 12.376 min Scan# 3308
Delta R.T. 0.103 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

Tgt Ion: 75 Resp: 100484
Ion Ratio Lower Upper
75 100
53 0.0 67.0 100.4#
89 0.0 39.6 59.4#

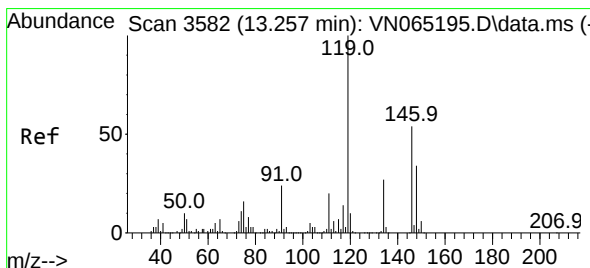
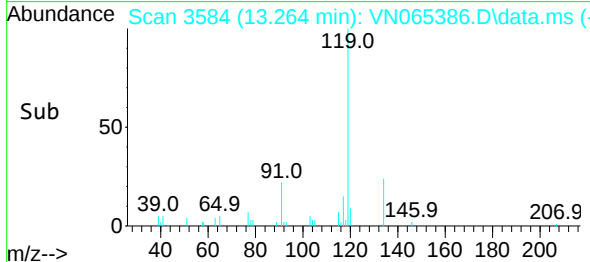
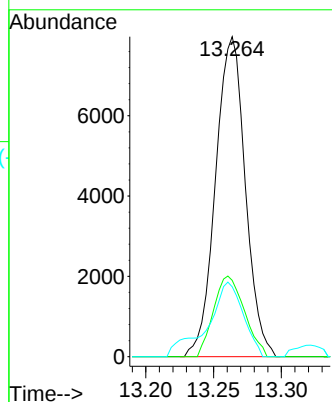
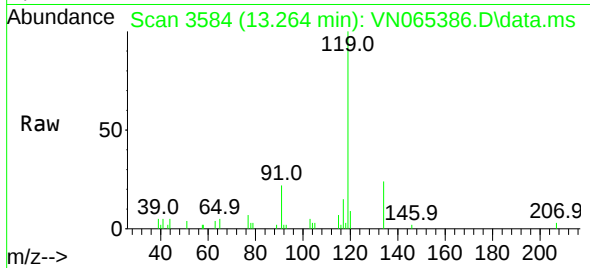




#86
p-Isopropyltoluene
Concen: 0.96 ug/l
RT: 13.264 min Scan# 3584
Delta R.T. -0.000 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

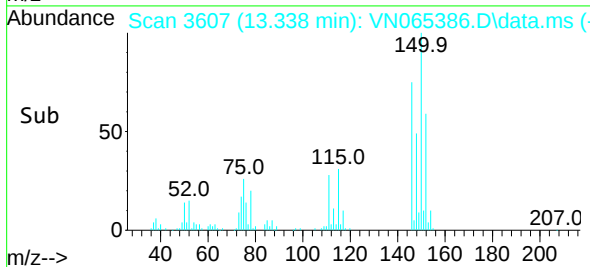
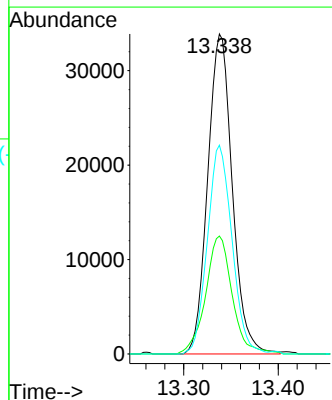
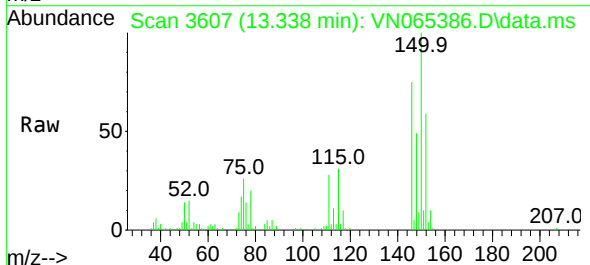
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

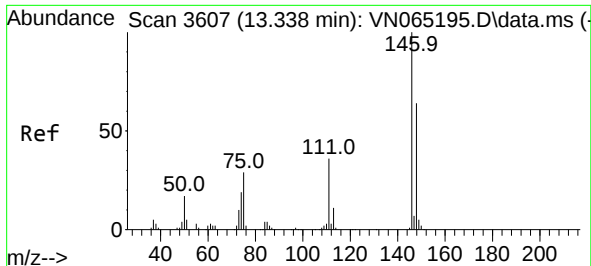
Tgt Ion:119 Resp: 12175
Ion Ratio Lower Upper
119 100
134 26.1 13.1 39.1
91 27.9 11.5 34.5



#87
1,3-Dichlorobenzene
Concen: 9.75 ug/l
RT: 13.338 min Scan# 3607
Delta R.T. 0.081 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

Tgt Ion:146 Resp: 61238
Ion Ratio Lower Upper
146 100
111 39.8 20.6 61.9
148 65.5 31.9 95.5

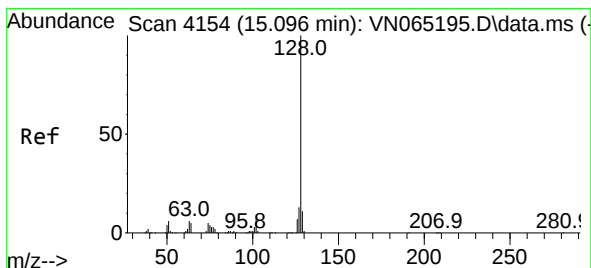
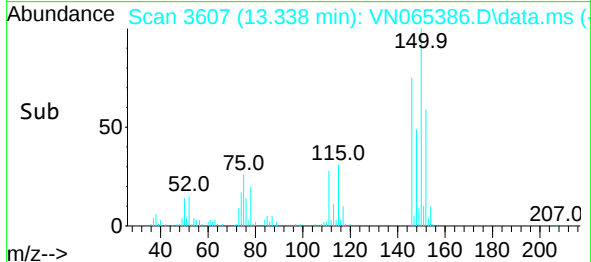
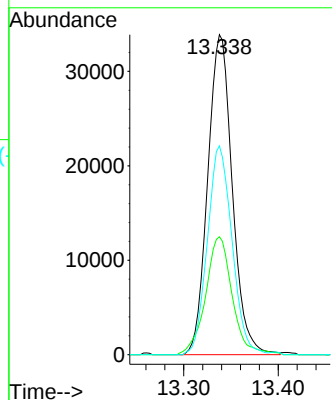
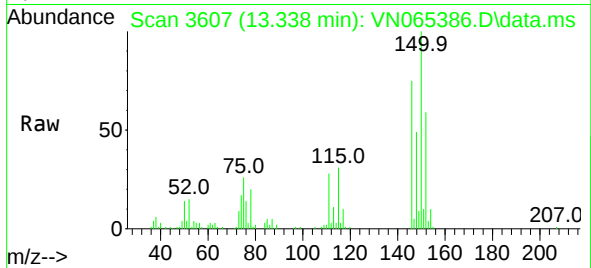




#88
1,4-Dichlorobenzene
Concen: 9.71 ug/l
RT: 13.338 min Scan# 3607
Delta R.T. -0.000 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 61238
Ion Ratio Lower Upper
146 100
111 39.8 19.8 59.3
148 65.5 31.9 95.5



#95
Naphthalene
Concen: 3.72 ug/l
RT: 15.113 min Scan# 4159
Delta R.T. 0.017 min
Lab File: VN065386.D
Acq: 5 Jan 2021 14:23

Tgt Ion:128 Resp: 3632
Ion Ratio Lower Upper
128 100
127 7.1 10.3 15.5#
129 5.2 8.7 13.1#

