

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042021\
 Data File : VN066687.D
 Acq On : 20 Apr 2021 17:38
 Operator : JC/MD
 Sample : M2081-02 5X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 21 10:09:50 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Apr 20 12:52:17 2021
 Response via : Initial Calibration

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

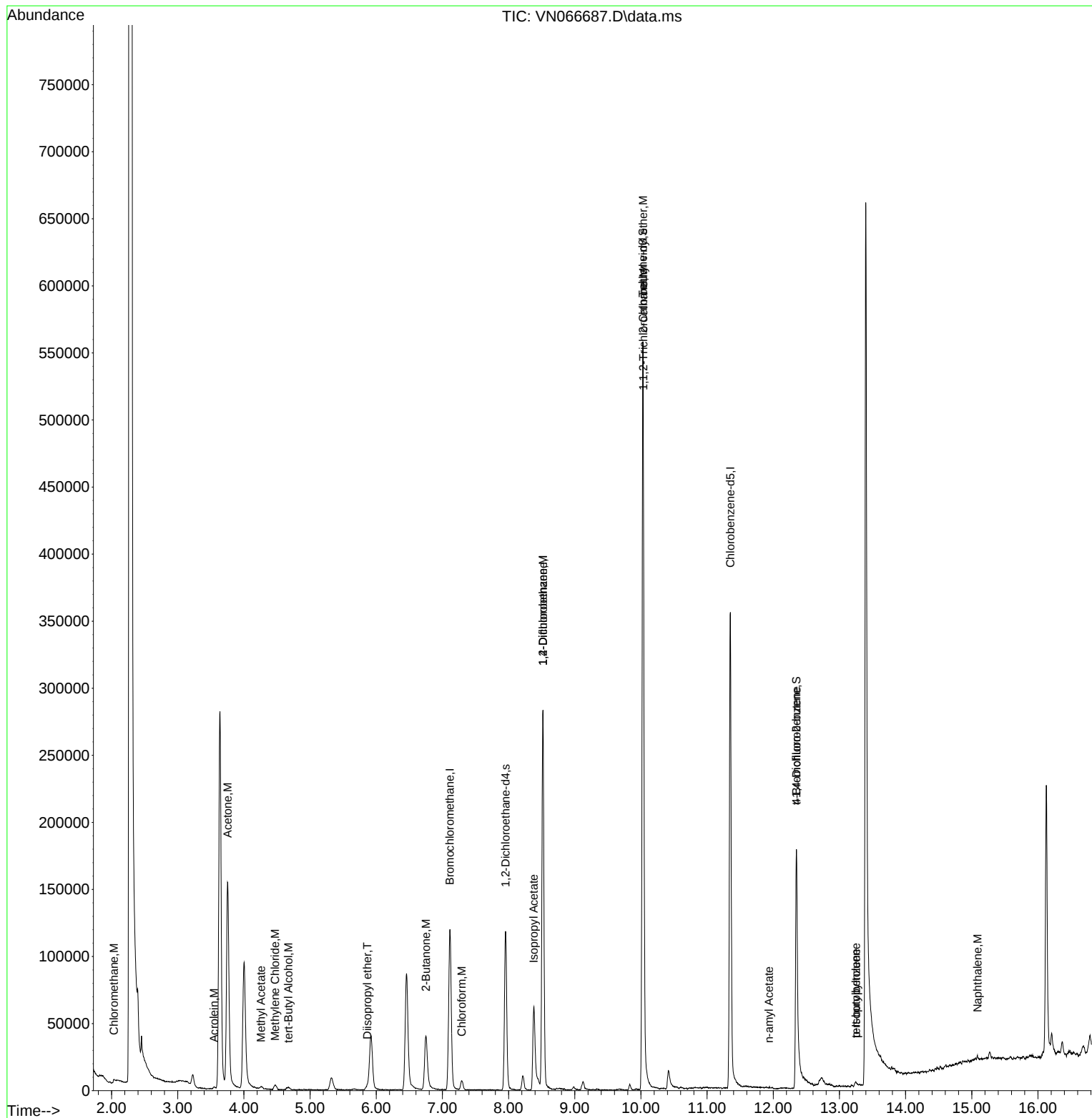
Internal Standards						
1) Bromochloromethane	7.114	128	47074	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.519	114	257039	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.351	117	221173	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.953	65	103331	30.46	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.53%
60) 4-Bromofluorobenzene	12.349	95	85403	24.64	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	82.13%
63) Toluene-d8	10.029	98	315857	31.04	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	103.47%
Target Compounds						Qvalue
3) Chloromethane	2.034	50	1332	0.37	ug/l #	88
12) Methyl Acetate	4.260	43	2910	0.87	ug/l	92
13) Acrolein	3.546	56	1871	3.97	ug/l #	48
15) Acetone	3.753	58	81677	212.32	ug/l	84
18) Methylene Chloride	4.472	84	2641	0.84	ug/l	92
20) Diisopropyl ether	5.866	45	4136	0.41	ug/l #	78
23) tert-Butyl Alcohol	4.673	59	158	0.32	ug/l #	100
25) Chloroform	7.293	83	7956	1.51	ug/l	94
30) 2-Butanone	6.751	43	69611	35.63	ug/l	99
36) 1,2-Dichloroethane	8.519	62	8127	1.90	ug/l #	76
44) Isopropyl Acetate	8.379	43	3401	0.47	ug/l #	50
47) n-amyl Acetate	11.936	43	195	19.47	ug/l	94
50) 1,1,2-Trichloroethane	10.037	97	11400	3.63	ug/l #	8
55) 2-Chloroethyl vinyl ether	10.034	63	311	0.46	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.349	75	41300	35.67	ug/l #	10
79) tert-butylbenzene	13.250	119	3424	0.38	ug/l	41
82) p-Isopropyltoluene	13.250	119	3424	0.33	ug/l	74
91) Naphthalene	15.087	128	1892	0.26	ug/l #	69

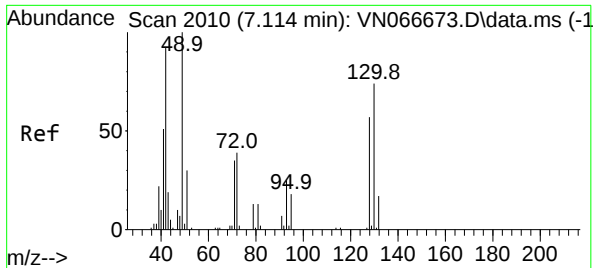
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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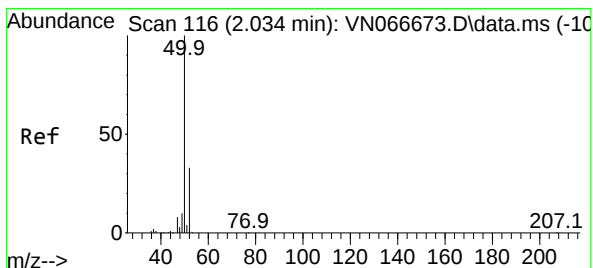
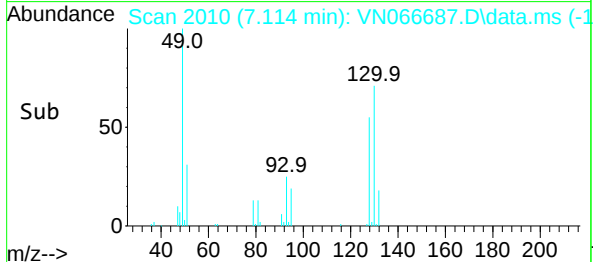
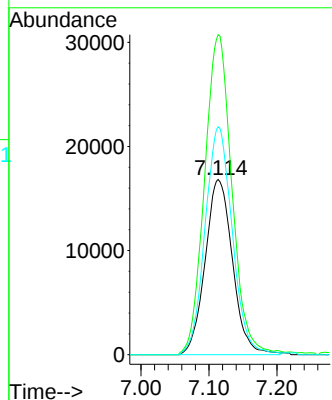
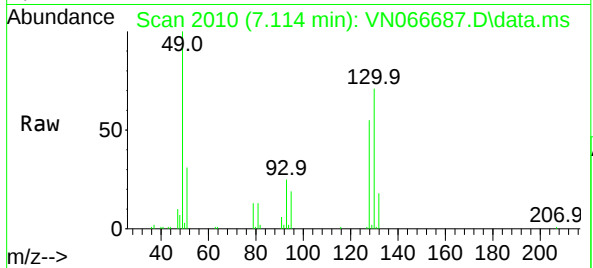




#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 7.114 min Scan# 2010
Delta R.T. -0.000 min
Lab File: VN066687.D
Acq: 20 Apr 2021 17:38

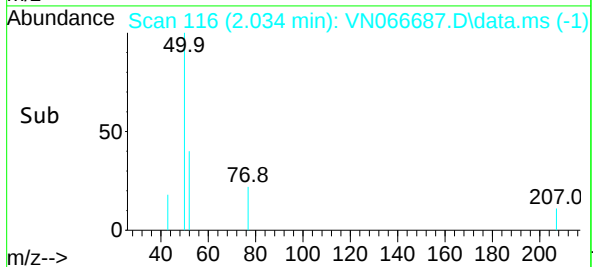
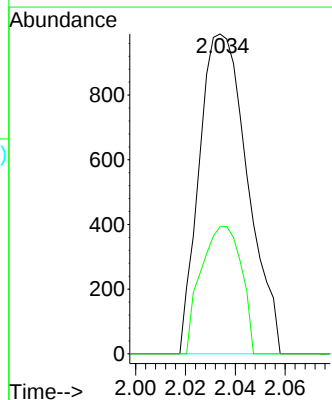
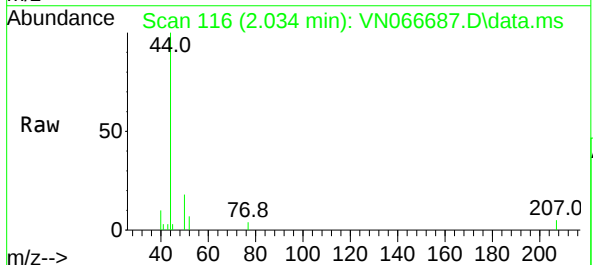
Instrument :
MSVOA_N
ClientSampleId :

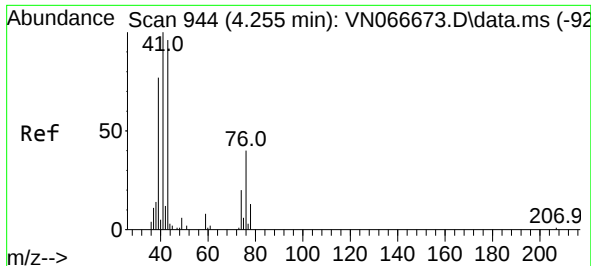
Tgt Ion:128 Resp: 47074
Ion Ratio Lower Upper
128 100
49 181.5 0.0 429.3
130 129.5 0.0 328.5



#3
Chloromethane
Concen: 0.37 ug/l
RT: 2.034 min Scan# 116
Delta R.T. -0.000 min
Lab File: VN066687.D
Acq: 20 Apr 2021 17:38

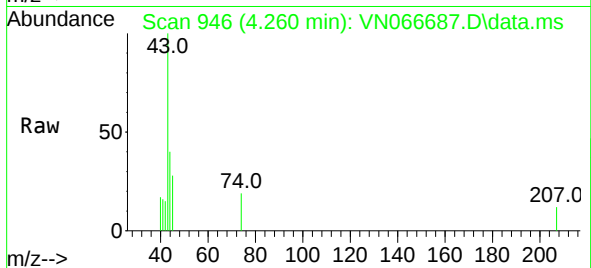
Tgt Ion: 50 Resp: 1332
Ion Ratio Lower Upper
50 100
52 39.7 26.2 39.4#



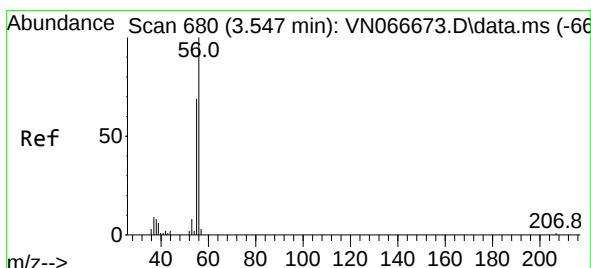
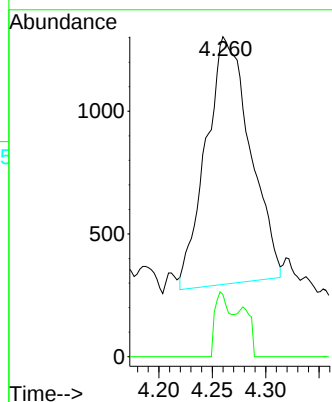
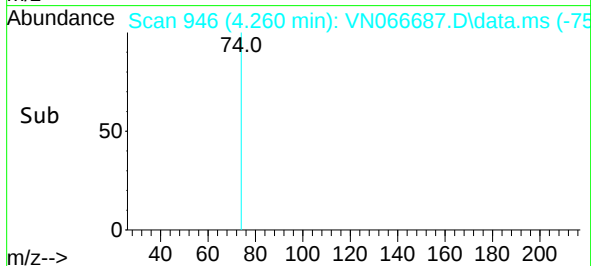


#12
Methyl Acetate
Concen: 0.87 ug/l
RT: 4.260 min Scan# 946
Delta R.T. 0.005 min
Lab File: VN066687.D
Acq: 20 Apr 2021 17:38

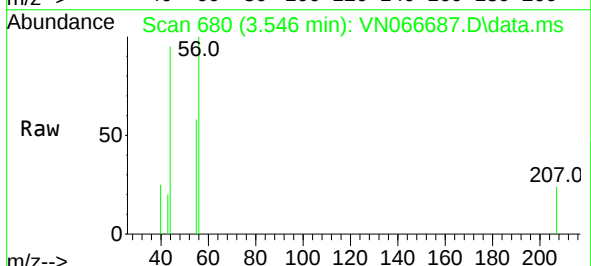
Instrument :
MSVOA_N
ClientSampled :



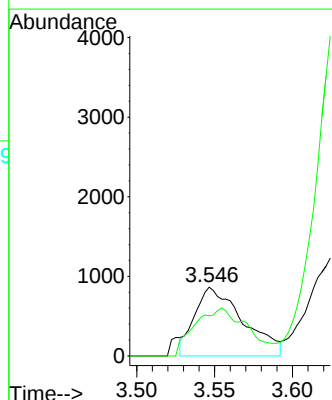
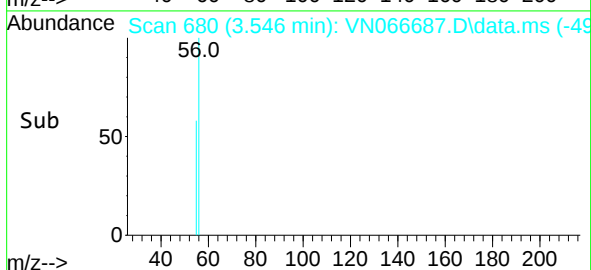
Tgt Ion: 43 Resp: 2910
Ion Ratio Lower Upper
43 100
74 26.5 18.0 27.0

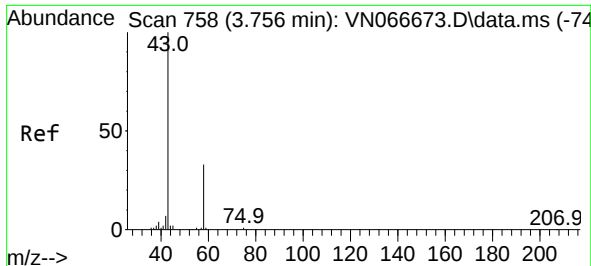


#13
Acrolein
Concen: 3.97 ug/l
RT: 3.546 min Scan# 680
Delta R.T. -0.001 min
Lab File: VN066687.D
Acq: 20 Apr 2021 17:38



Tgt Ion: 56 Resp: 1871
Ion Ratio Lower Upper
56 100
55 26.0 54.1 81.1#

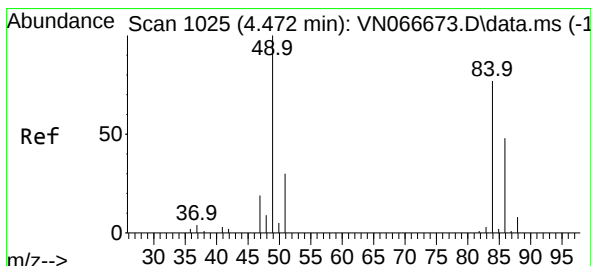
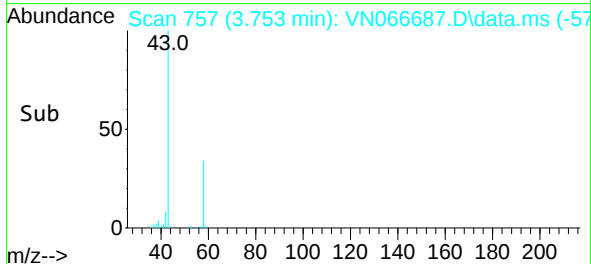
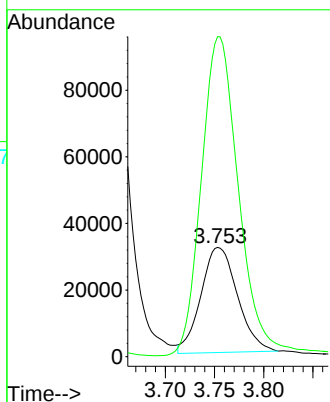
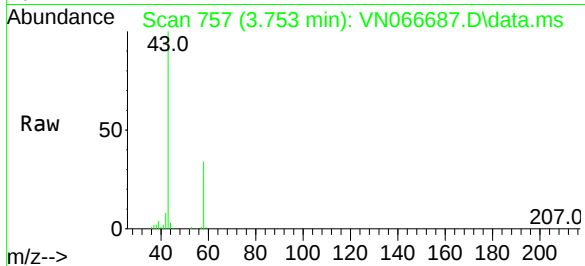




#15
Acetone
Concen: 212.32 ug/l
RT: 3.753 min Scan# 757
Delta R.T. -0.003 min
Lab File: VN066687.D
Acq: 20 Apr 2021 17:38

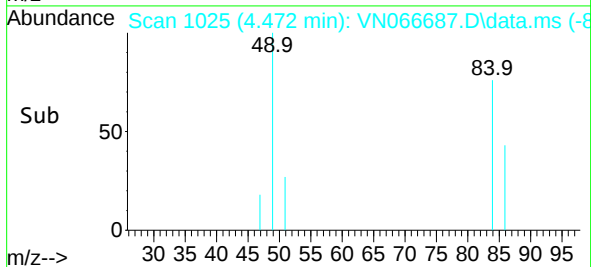
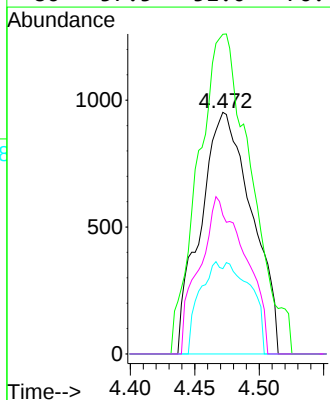
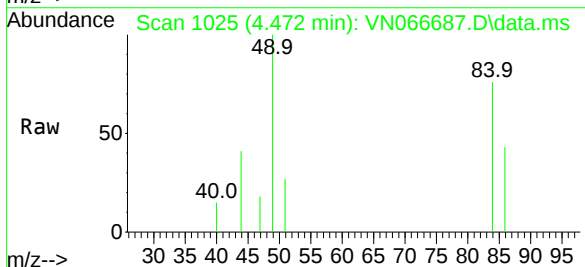
Instrument :
MSVOA_N
ClientSampleId :

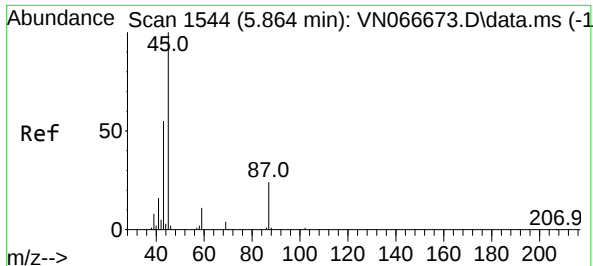
Tgt Ion: 58 Resp: 81677
Ion Ratio Lower Upper
58 100
43 300.5 267.3 400.9



#18
Methylene Chloride
Concen: 0.84 ug/l
RT: 4.472 min Scan# 1025
Delta R.T. -0.000 min
Lab File: VN066687.D
Acq: 20 Apr 2021 17:38

Tgt Ion: 84 Resp: 2641
Ion Ratio Lower Upper
84 100
49 113.6 98.9 148.3
51 35.3 30.8 46.2
86 57.5 51.0 76.4





#20

Diisopropyl ether

Concen: 0.41 ug/l

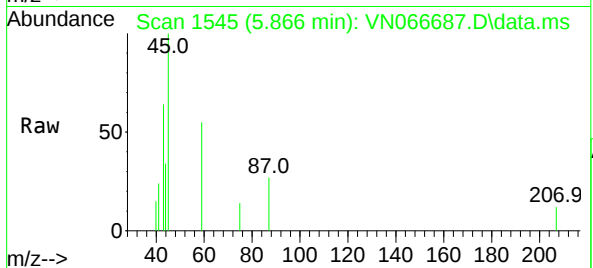
RT: 5.866 min Scan# 1545

Delta R.T. 0.002 min

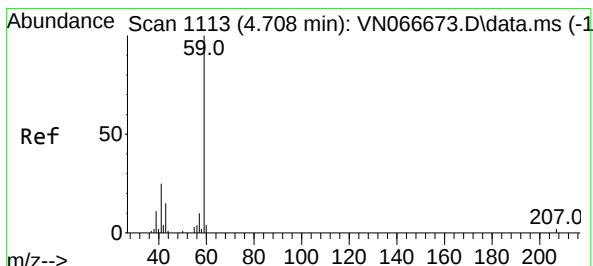
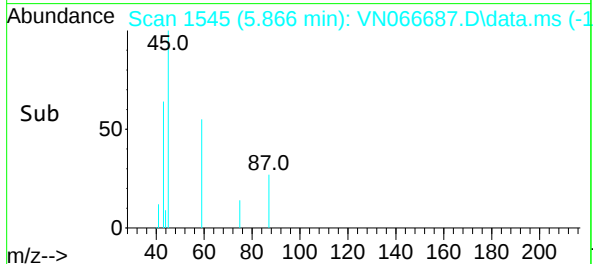
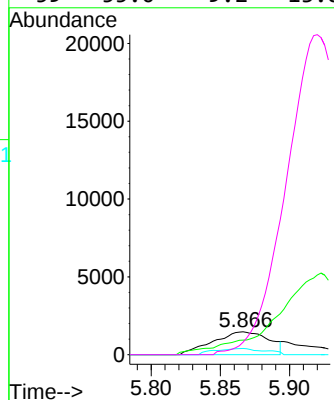
Lab File: VN066687.D

Acq: 20 Apr 2021 17:38

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:	45	Resp:	4136
Ion	Ratio	Lower	Upper
45	100		
43	52.7	51.4	77.2
87	27.1	21.4	32.0
59	55.0	9.2	13.8



#23

tert-Butyl Alcohol

Concen: 0.32 ug/l

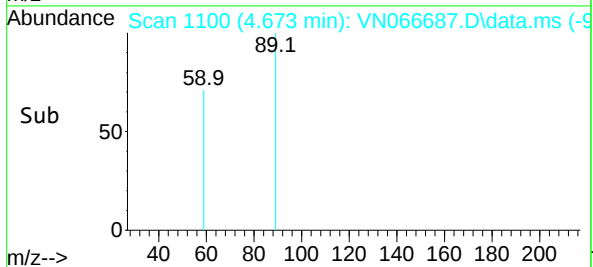
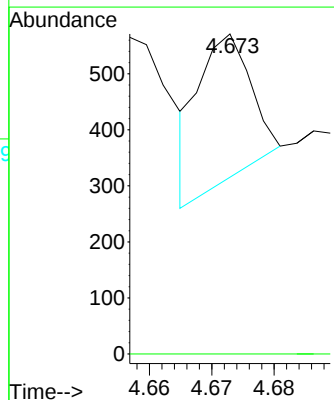
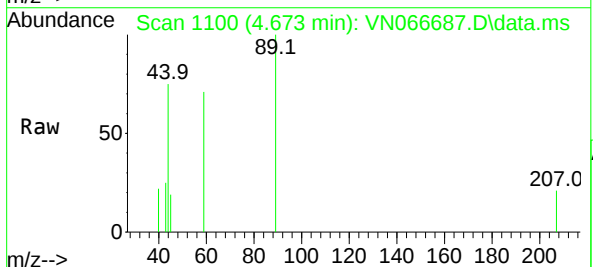
RT: 4.673 min Scan# 1100

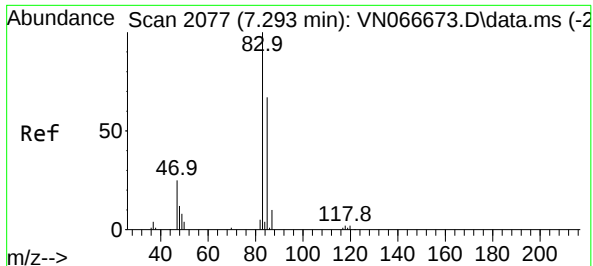
Delta R.T. -0.035 min

Lab File: VN066687.D

Acq: 20 Apr 2021 17:38

Tgt Ion:	59	Resp:	158
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.1	0.1

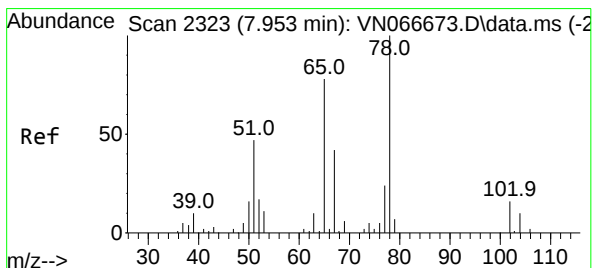
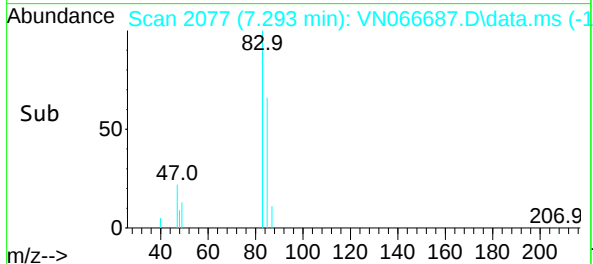
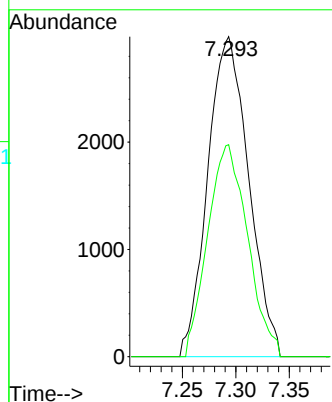
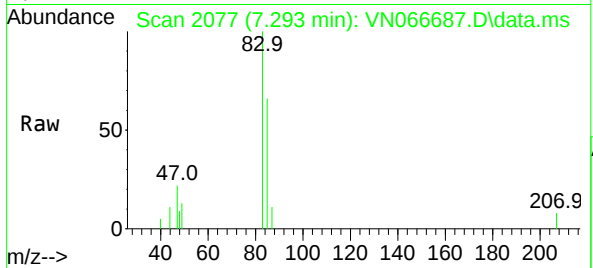




#25
Chloroform
Concen: 1.51 ug/l
RT: 7.293 min Scan# 2077
Delta R.T. 0.000 min
Lab File: VN066687.D
Acq: 20 Apr 2021 17:38

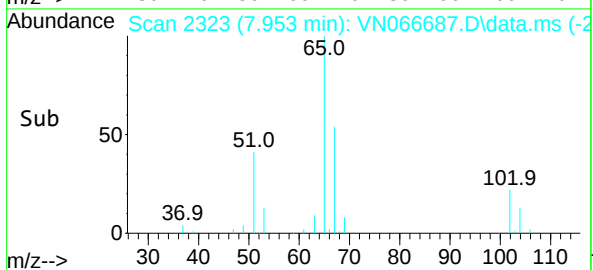
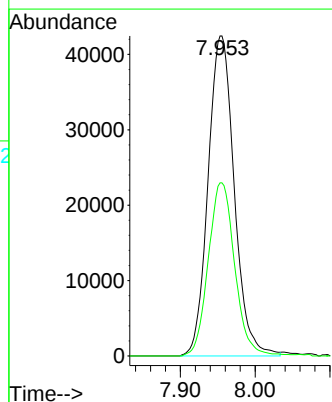
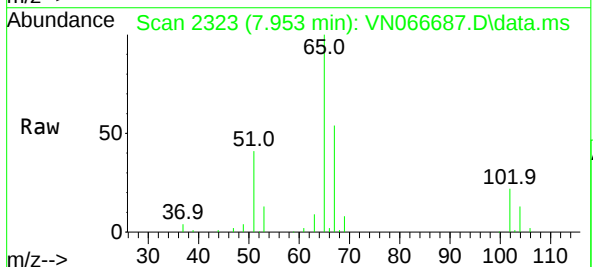
Instrument :
MSVOA_N
ClientSampled :

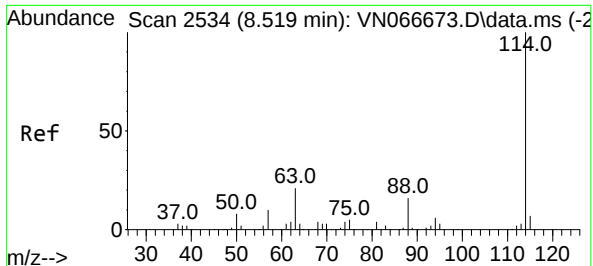
Tgt Ion: 83 Resp: 7956
Ion Ratio Lower Upper
83 100
85 66.3 49.4 74.2



#27
1,2-Dichloroethane-d4
Concen: 30.46 ug/l
RT: 7.953 min Scan# 2323
Delta R.T. -0.000 min
Lab File: VN066687.D
Acq: 20 Apr 2021 17:38

Tgt Ion: 65 Resp: 103331
Ion Ratio Lower Upper
65 100
67 54.3 42.2 63.4

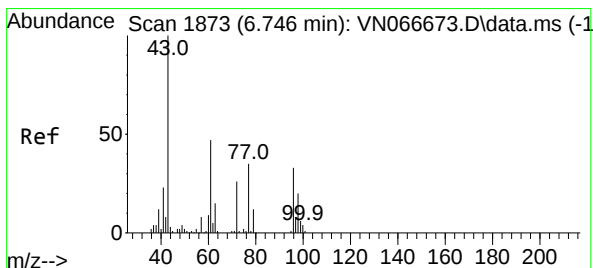
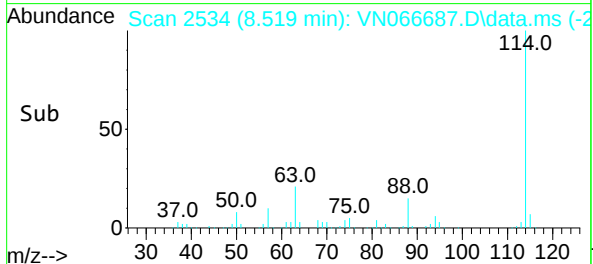
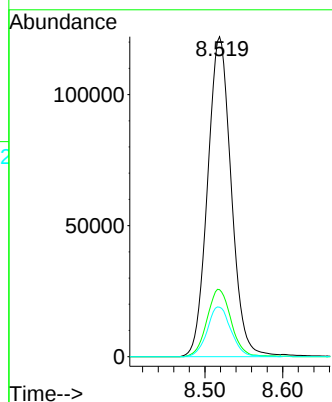
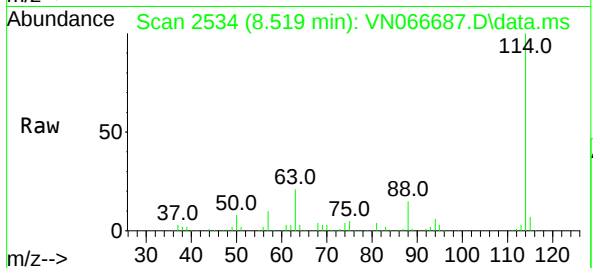




#28
1,4-Difluorobenzene
Concen: 30.00 ug/l
RT: 8.519 min Scan# 2534
Delta R.T. -0.000 min
Lab File: VN066687.D
Acq: 20 Apr 2021 17:38

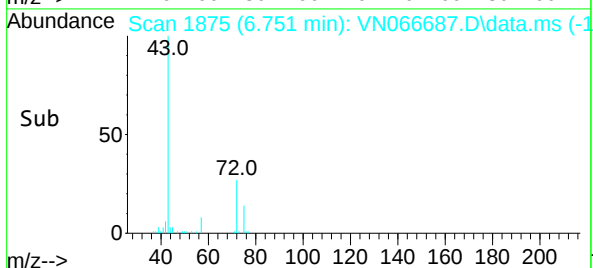
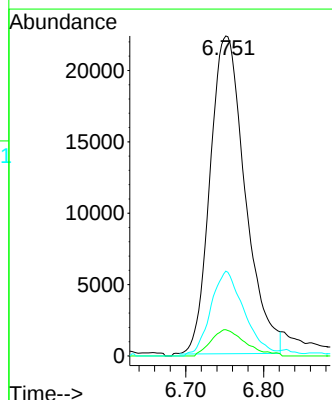
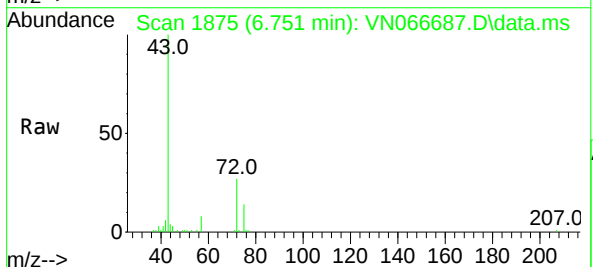
Instrument :
MSVOA_N
ClientSampleId :

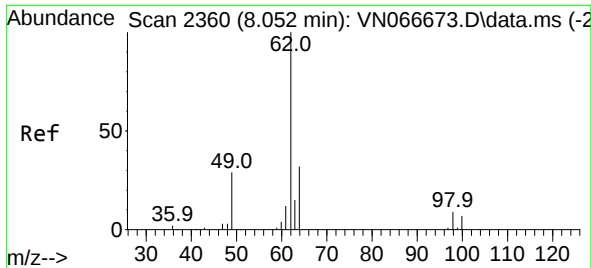
Tgt Ion:114 Resp: 257039
Ion Ratio Lower Upper
114 100
63 21.4 17.4 26.0
88 15.6 12.6 19.0



#30
2-Butanone
Concen: 35.63 ug/l
RT: 6.751 min Scan# 1875
Delta R.T. 0.005 min
Lab File: VN066687.D
Acq: 20 Apr 2021 17:38

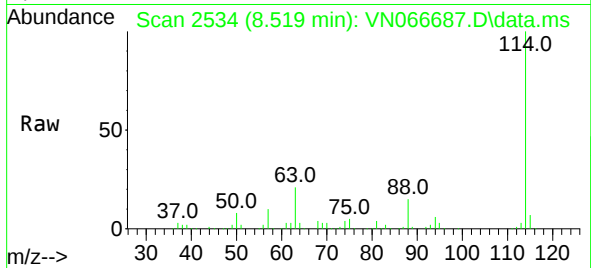
Tgt Ion: 43 Resp: 69611
Ion Ratio Lower Upper
43 100
57 7.8 6.9 10.3
72 25.5 20.9 31.3



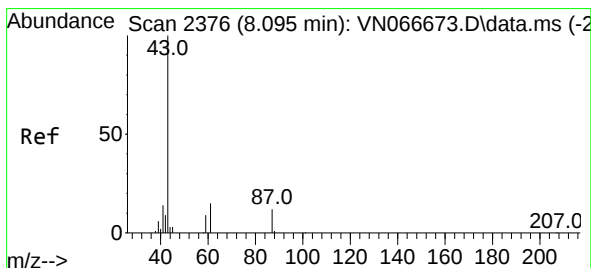
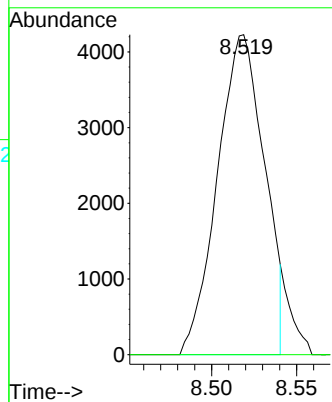
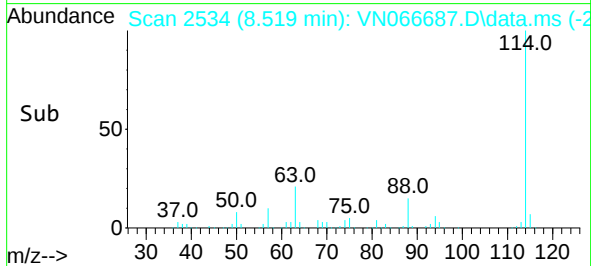


#36
1,2-Dichloroethane
Concen: 1.90 ug/l
RT: 8.519 min Scan# 2534
Delta R.T. 0.467 min
Lab File: VN066687.D
Acq: 20 Apr 2021 17:38

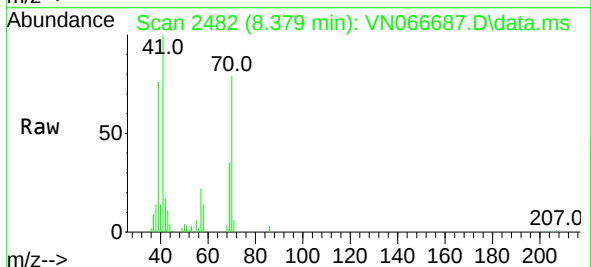
Instrument :
MSVOA_N
ClientSampled :



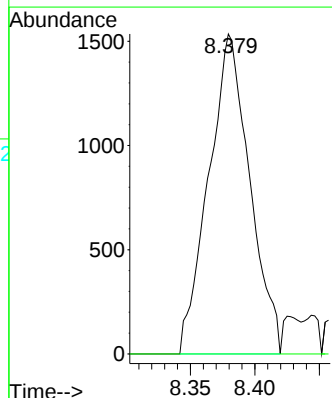
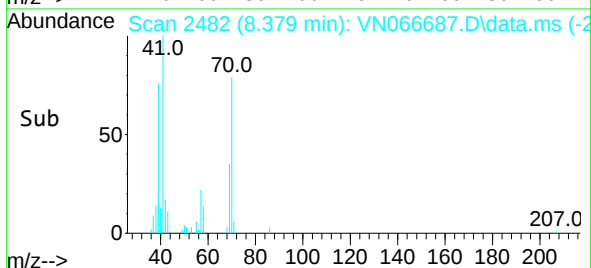
Tgt Ion: 62 Resp: 8127
Ion Ratio Lower Upper
62 100
98 0.0 6.9 10.3#

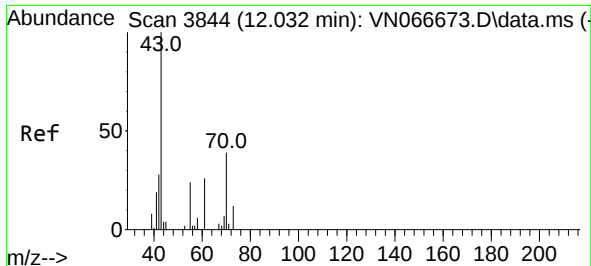


#44
Isopropyl Acetate
Concen: 0.47 ug/l
RT: 8.379 min Scan# 2482
Delta R.T. 0.284 min
Lab File: VN066687.D
Acq: 20 Apr 2021 17:38



Tgt Ion: 43 Resp: 3401
Ion Ratio Lower Upper
43 100
61 0.0 20.4 30.6#

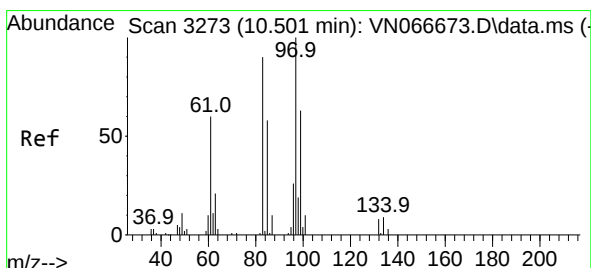
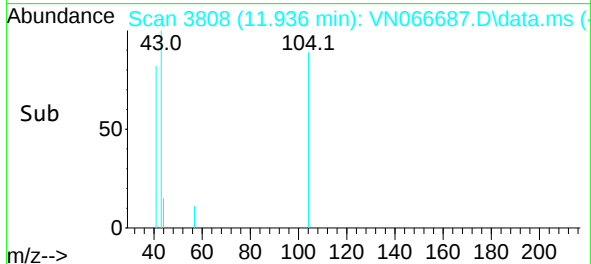
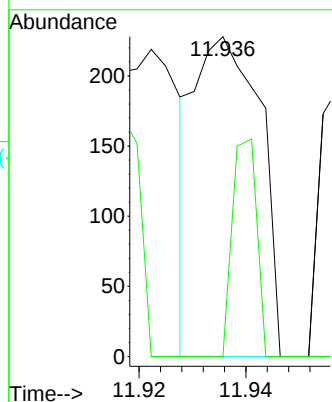
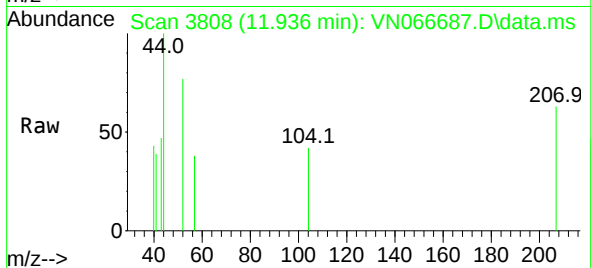




#47
n-amy1 Acetate
Concen: 19.47 ug/l
RT: 11.936 min Scan# 3808
Delta R.T. -0.096 min
Lab File: VN066687.D
Acq: 20 Apr 2021 17:38

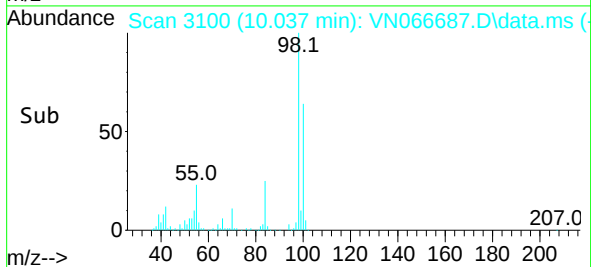
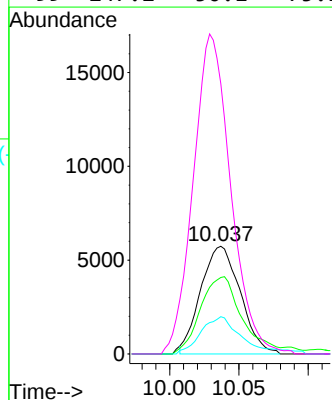
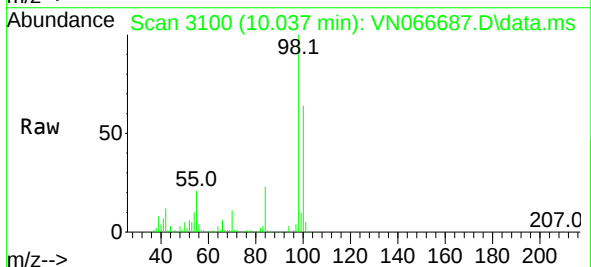
Instrument :
MSVOA_N
ClientSampleId :

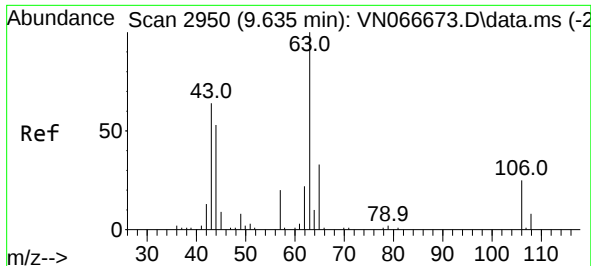
Tgt Ion: 43 Resp: 195
Ion Ratio Lower Upper
43 100
55 25.1 17.7 26.5



#50
1,1,2-Trichloroethane
Concen: 3.63 ug/l
RT: 10.037 min Scan# 3100
Delta R.T. -0.464 min
Lab File: VN066687.D
Acq: 20 Apr 2021 17:38

Tgt Ion: 97 Resp: 11400
Ion Ratio Lower Upper
97 100
83 65.6 68.8 103.2#
85 31.4 44.8 67.2#
99 247.2 50.1 75.1#

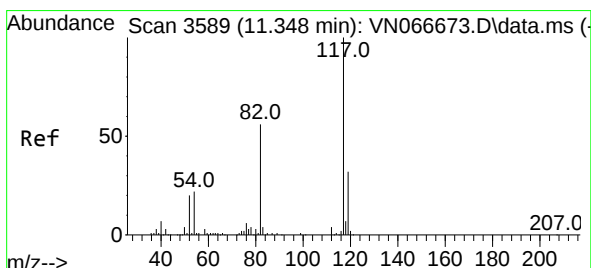
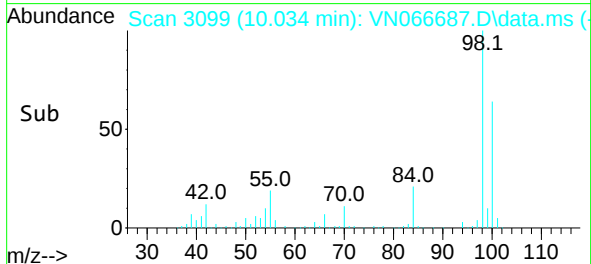
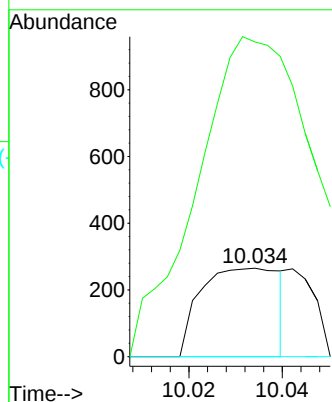
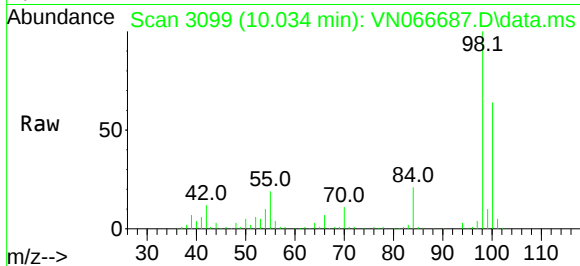




#55
2-Chloroethyl vinyl ether
Concen: 0.46 ug/l
RT: 10.034 min Scan# 3099
Delta R.T. 0.399 min
Lab File: VN066687.D
Acq: 20 Apr 2021 17:38

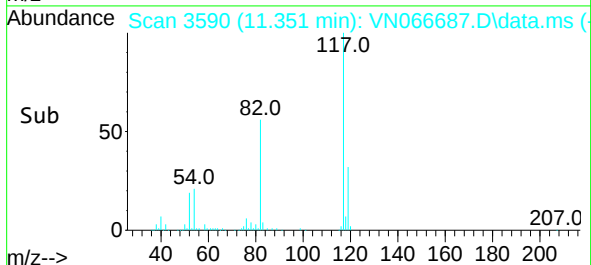
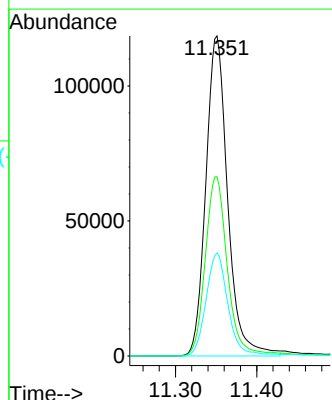
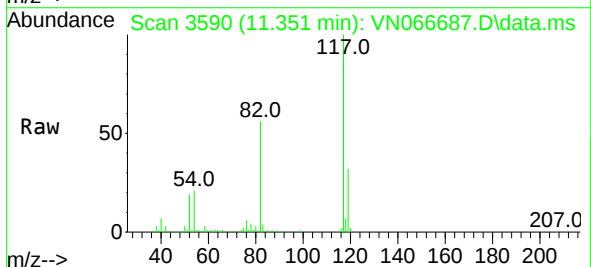
Instrument :
MSVOA_N
ClientSampleId :

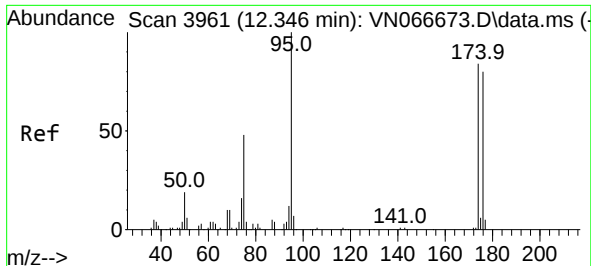
Tgt Ion: 63 Resp: 311
Ion Ratio Lower Upper
63 100
65 578.1 26.0 39.0#
106 0.0 20.6 31.0#



#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.351 min Scan# 3590
Delta R.T. 0.003 min
Lab File: VN066687.D
Acq: 20 Apr 2021 17:38

Tgt Ion: 117 Resp: 221173
Ion Ratio Lower Upper
117 100
82 56.2 45.0 67.6
119 32.8 25.5 38.3

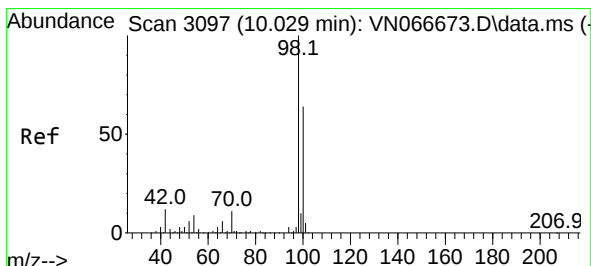
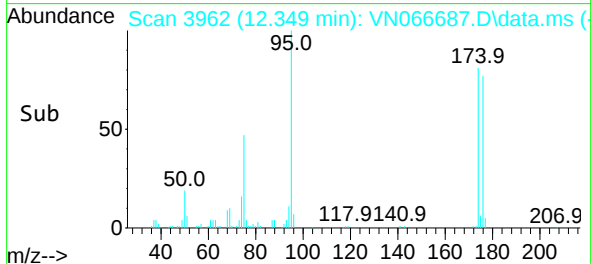
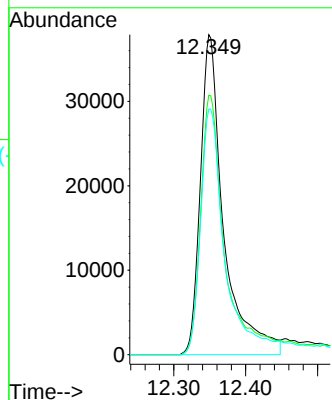
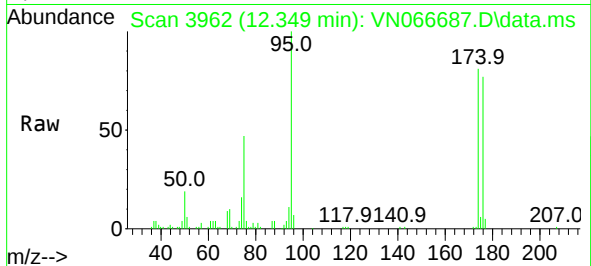




#60
4-Bromofluorobenzene
Concen: 24.64 ug/l
RT: 12.349 min Scan# 3962
Delta R.T. 0.003 min
Lab File: VN066687.D
Acq: 20 Apr 2021 17:38

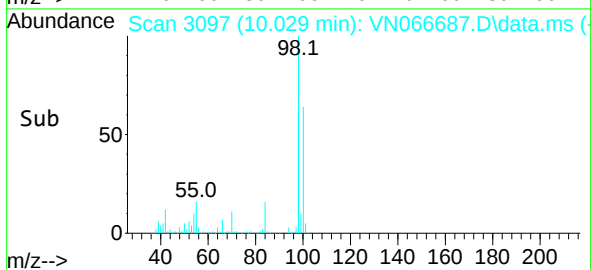
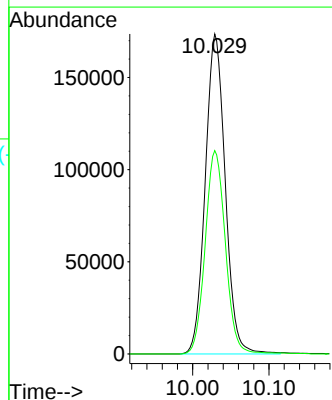
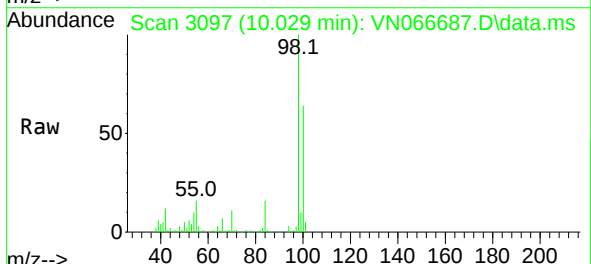
Instrument :
MSVOA_N
ClientSampleId :

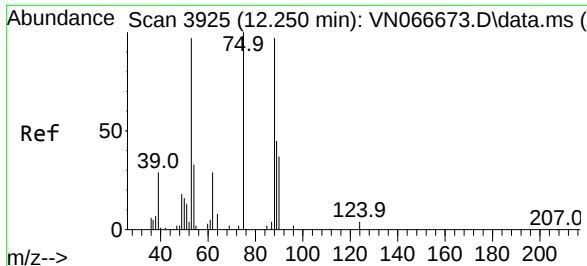
Tgt Ion: 95 Resp: 85403
Ion Ratio Lower Upper
95 100
174 76.5 68.1 102.1
176 79.2 65.4 98.0



#63
Toluene-d8
Concen: 31.04 ug/l
RT: 10.029 min Scan# 3097
Delta R.T. -0.000 min
Lab File: VN066687.D
Acq: 20 Apr 2021 17:38

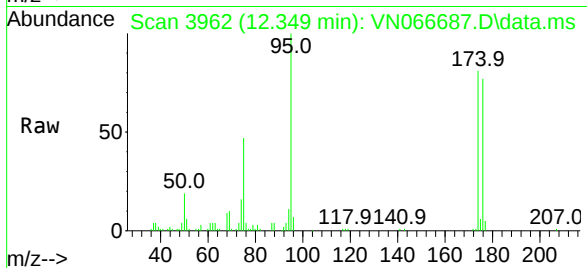
Tgt Ion: 98 Resp: 315857
Ion Ratio Lower Upper
98 100
100 64.2 51.1 76.7



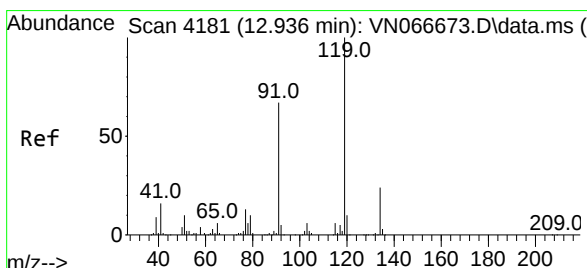
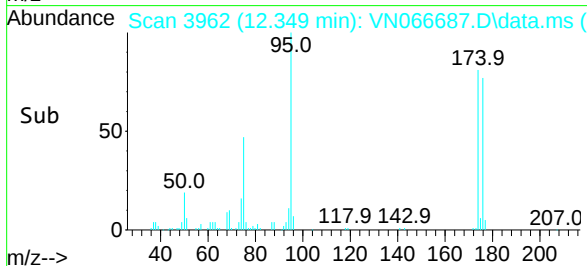
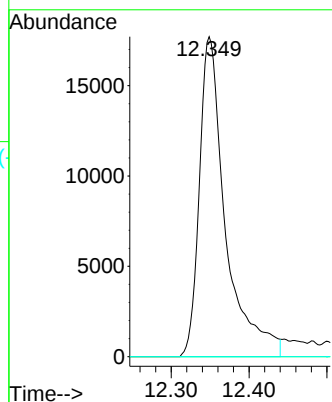


#77
t-1,4-Dichloro-2-butene
Concen: 35.67 ug/l
RT: 12.349 min Scan# 3962
Delta R.T. 0.099 min
Lab File: VN066687.D
Acq: 20 Apr 2021 17:38

Instrument :
MSVOA_N
ClientSampleId :

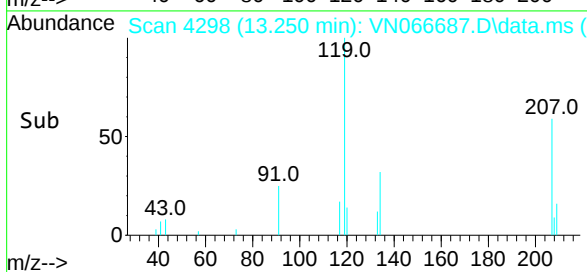
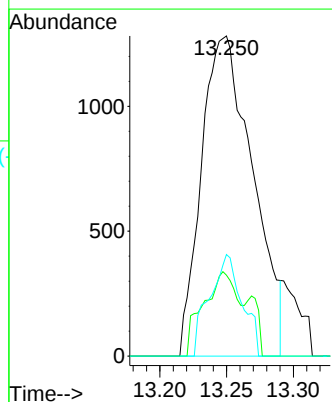
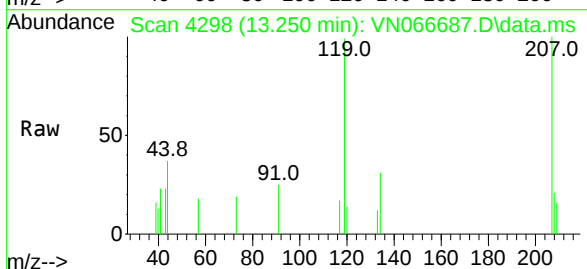


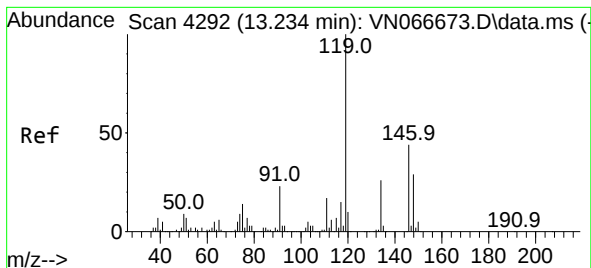
Tgt Ion: 75 Resp: 41300
Ion Ratio Lower Upper
75 100
53 0.0 49.6 149.0#
89 0.0 22.9 68.7#



#79
tert-butylbenzene
Concen: 0.38 ug/l
RT: 13.250 min Scan# 4298
Delta R.T. 0.314 min
Lab File: VN066687.D
Acq: 20 Apr 2021 17:38

Tgt Ion: 119 Resp: 3424
Ion Ratio Lower Upper
119 100
91 5.5 0.0 133.4
134 18.6 0.0 51.0

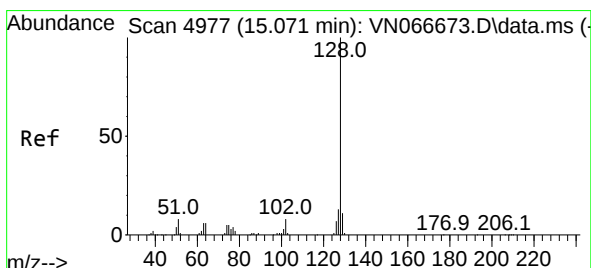
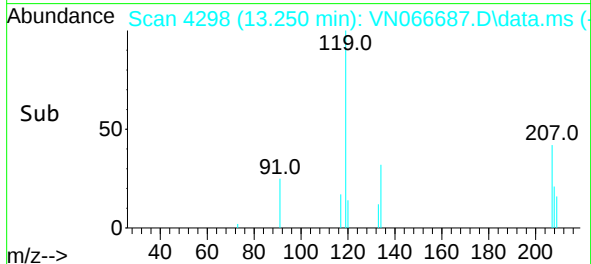
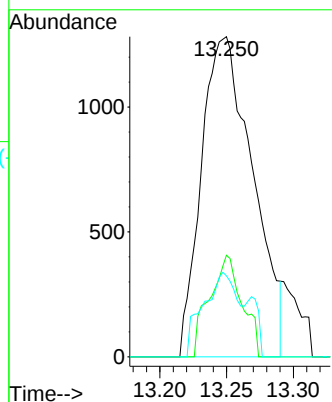
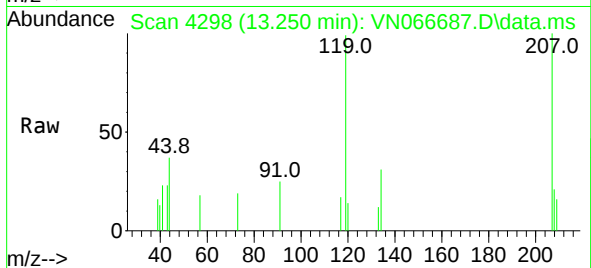




#82
p-Isopropyltoluene
Concen: 0.33 ug/l
RT: 13.250 min Scan# 4298
Delta R.T. 0.016 min
Lab File: VN066687.D
Acq: 20 Apr 2021 17:38

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion:119 Resp: 3424
Ion Ratio Lower Upper
119 100
134 18.6 0.0 53.4
91 5.5 0.0 47.6



#91
Naphthalene
Concen: 0.26 ug/l
RT: 15.087 min Scan# 4983
Delta R.T. 0.016 min
Lab File: VN066687.D
Acq: 20 Apr 2021 17:38

Tgt Ion:128 Resp: 1892
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.2#
129 0.0 8.6 13.0#

