

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042021\
 Data File : VN066685.D
 Acq On : 20 Apr 2021 16:51
 Operator : JC/MD
 Sample : M2032-03 10X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

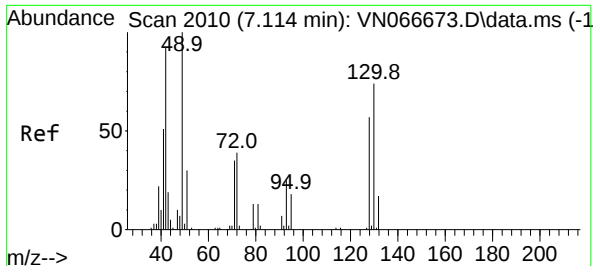
Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 21 10:09:15 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	53367	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.519	114	283455	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.351	117	250912	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.953	65	116929	30.41	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	101.37%		
60) 4-Bromofluorobenzene	12.349	95	94681	24.08	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	80.27%		
63) Toluene-d8	10.029	98	351911	30.48	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.60%		
Target Compounds						Qvalue
3) Chloromethane	2.037	50	1327	0.32	ug/l	100
12) Methyl Acetate	4.255	43	4021	1.06	ug/l	91
13) Acrolein	3.539	56	320	0.60	ug/l #	79
15) Acetone	3.759	58	7003	16.06	ug/l	80
16) Carbon Disulfide	3.986	76	1848	0.22	ug/l #	76
18) Methylene Chloride	4.480	84	797	0.22	ug/l	88
23) tert-Butyl Alcohol	4.708	59	217	0.38	ug/l #	100
30) 2-Butanone	6.752	43	1259	0.58	ug/l #	81
35) Methacrylonitrile	7.151	41	1824	0.88	ug/l #	54
36) 1,2-Dichloroethane	8.519	62	8773	1.86	ug/l #	76
43) Ethyl Acetate	6.752	43	1259	0.27	ug/l	96
47) n-amyl Acetate	11.992	43	1610	19.66	ug/l	91
50) 1,1,2-Trichloroethane	10.037	97	12075	3.49	ug/l #	1
56) Bromoform	12.349	173	707	0.26	ug/l #	1
58) 4-Methyl-2-Pentanone	9.927	43	1345	0.31	ug/l #	57
66) Ethyl Benzene	11.458	91	5060	0.33	ug/l	94
67) m/p-Xylenes	11.566	106	8187	1.43	ug/l	94
68) o-Xylene	11.566	106	8187	1.48	ug/l	89
70) Isopropylbenzene	12.606	105	11068	0.76	ug/l	90
76) 1,3,5-Trimethylbenzene	12.681	105	11410	0.93	ug/l	85
77) t-1,4-Dichloro-2-butene	12.349	75	47329	36.03	ug/l #	10
78) 4-Chlorotoluene	13.180	91	11625	1.18	ug/l	44
79) tert-butylbenzene	13.234	119	298215	29.11	ug/l	59
80) 1,2,4-Trimethylbenzene	12.987	105	20920	1.78	ug/l	96
82) p-Isopropyltoluene	13.234	119	298215	25.57	ug/l	98
91) Naphthalene	15.087	128	1739	0.21	ug/l #	85

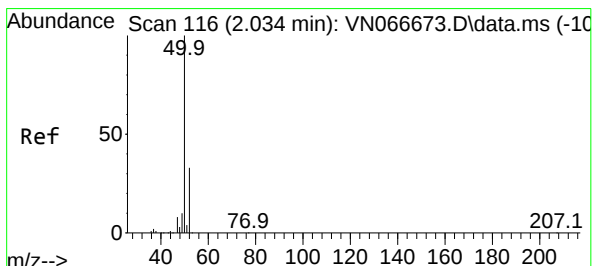
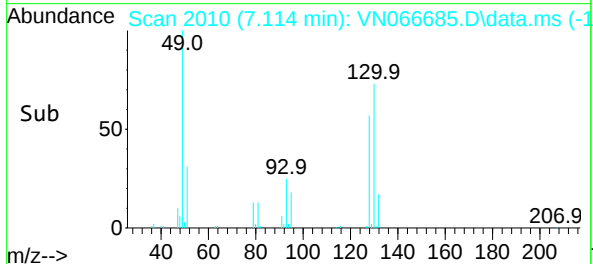
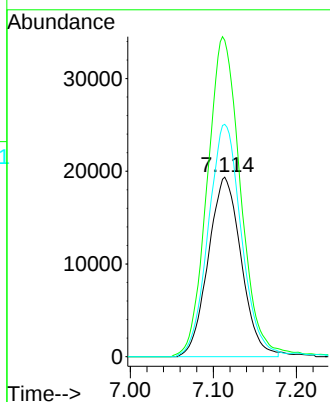
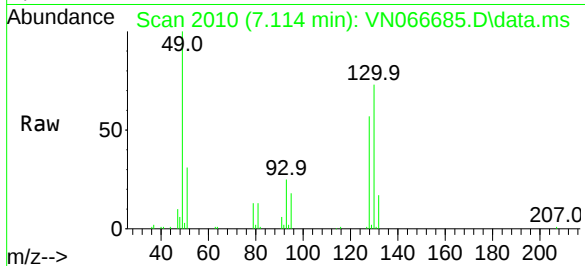
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 7.114 min Scan# 2010
Delta R.T. -0.000 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

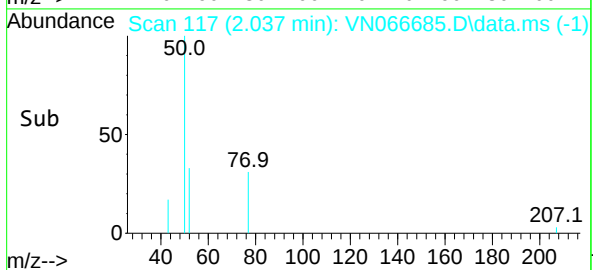
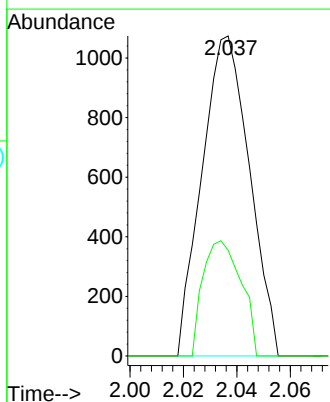
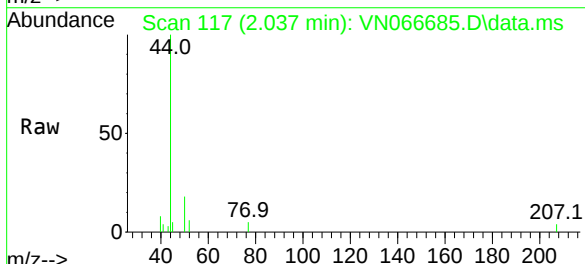
Instrument :
MSVOA_N
ClientSampleId :

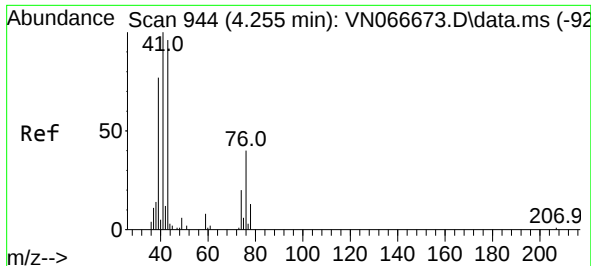
Tgt Ion:128 Resp: 53367
Ion Ratio Lower Upper
128 100
49 179.6 0.0 429.3
130 130.4 0.0 328.5



#3
Chloromethane
Concen: 0.32 ug/l
RT: 2.037 min Scan# 117
Delta R.T. 0.003 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

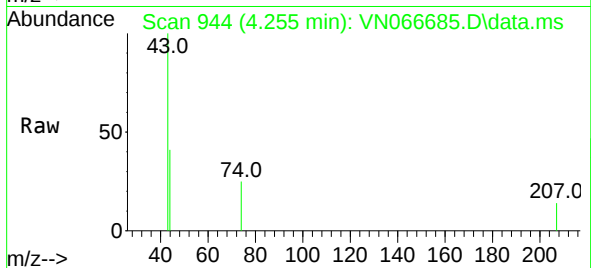
Tgt Ion: 50 Resp: 1327
Ion Ratio Lower Upper
50 100
52 33.1 26.2 39.4



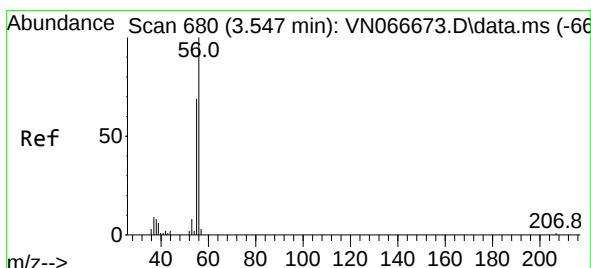
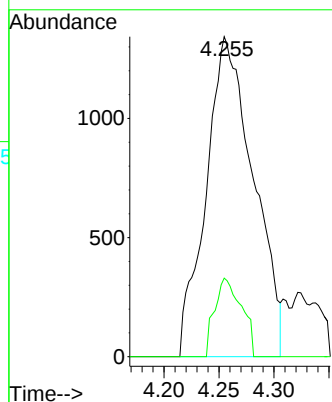
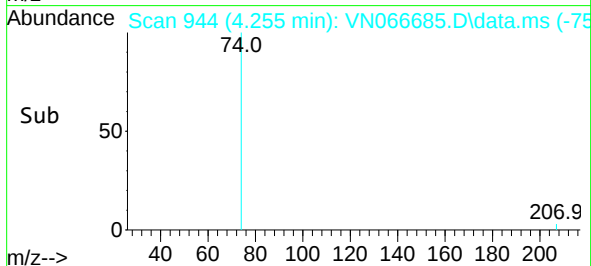


#12
Methyl Acetate
Concen: 1.06 ug/l
RT: 4.255 min Scan# 944
Delta R.T. -0.000 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

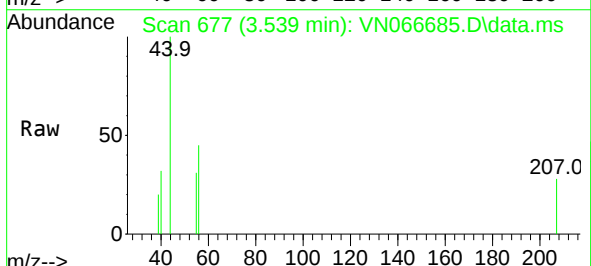
Instrument :
MSVOA_N
ClientSampled :



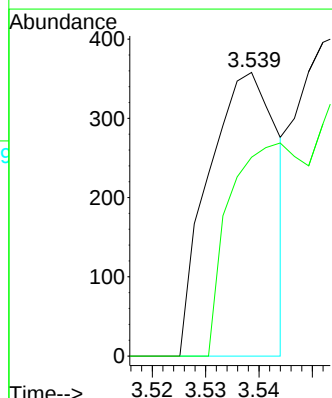
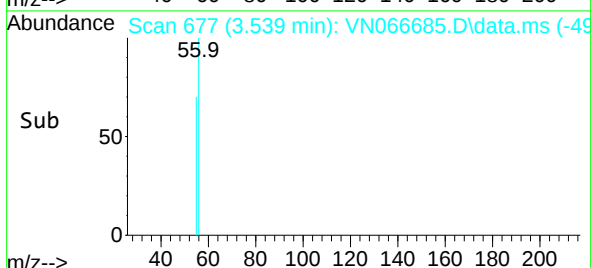
Tgt Ion: 43 Resp: 4021
Ion Ratio Lower Upper
43 100
74 26.8 18.0 27.0

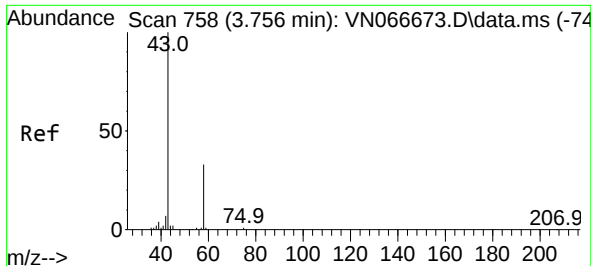


#13
Acrolein
Concen: 0.60 ug/l
RT: 3.539 min Scan# 677
Delta R.T. -0.008 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51



Tgt Ion: 56 Resp: 320
Ion Ratio Lower Upper
56 100
55 84.4 54.1 81.1#

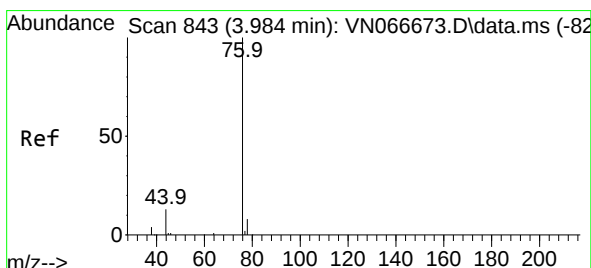
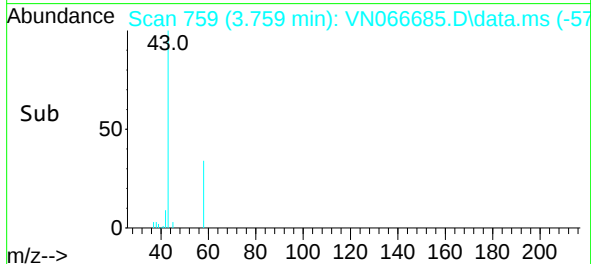
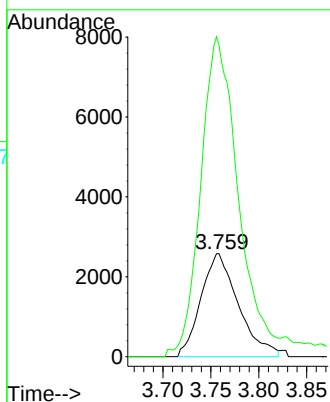
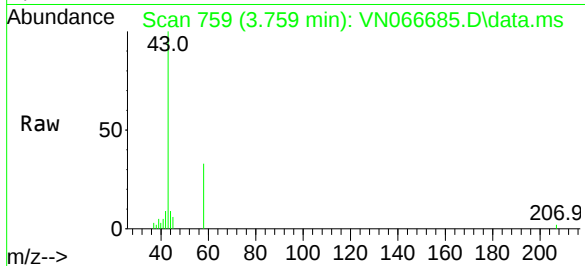




#15
Acetone
Concen: 16.06 ug/l
RT: 3.759 min Scan# 759
Delta R.T. 0.003 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

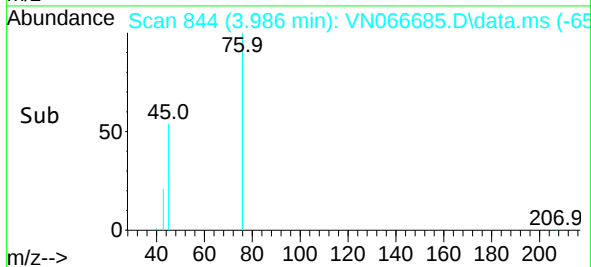
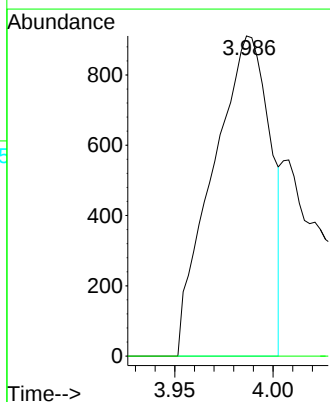
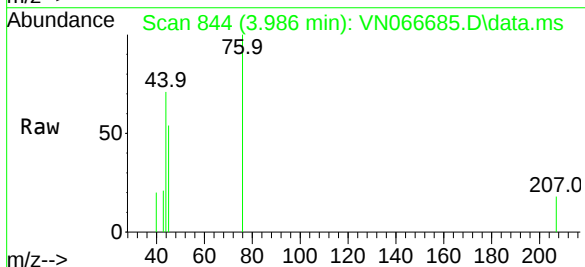
Instrument :
MSVOA_N
ClientSampled :

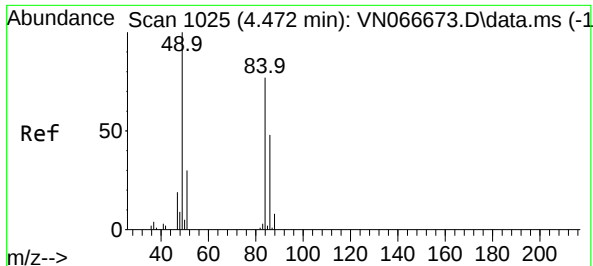
Tgt Ion: 58 Resp: 7003
Ion Ratio Lower Upper
58 100
43 291.8 267.3 400.9



#16
Carbon Disulfide
Concen: 0.22 ug/l
RT: 3.986 min Scan# 844
Delta R.T. 0.002 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

Tgt Ion: 76 Resp: 1848
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#





#18

Methylene Chloride

Concen: 0.22 ug/l

RT: 4.480 min Scan# 1028

Delta R.T. 0.008 min

Lab File: VN066685.D

Acq: 20 Apr 2021 16:51

Tgt Ion: 84 Resp: 797

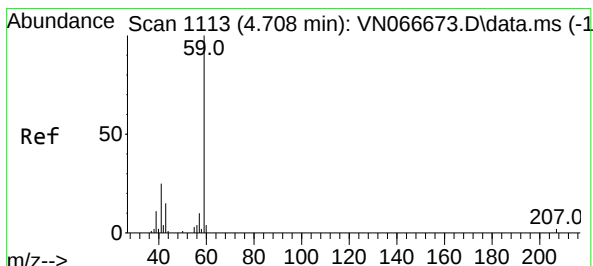
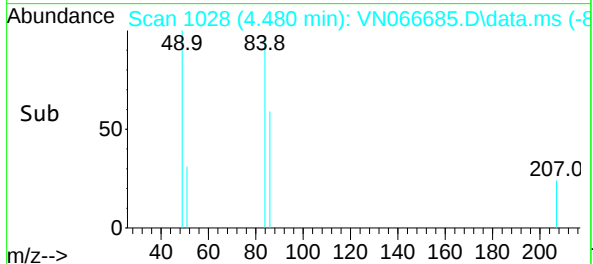
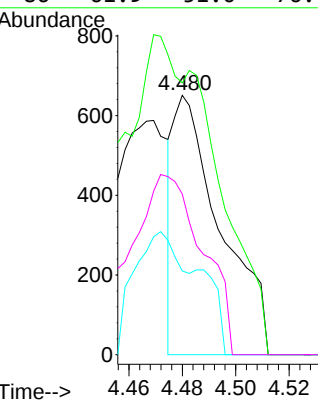
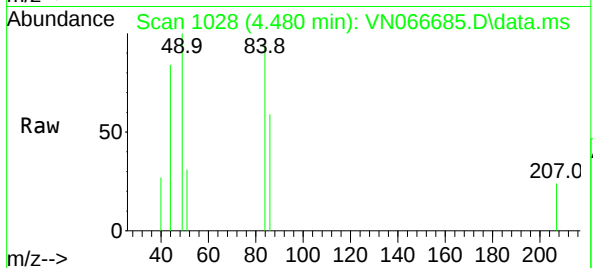
Ion Ratio Lower Upper

84 100

49 104.8 98.9 148.3

51 32.3 30.8 46.2

86 61.9 51.0 76.4



#23

tert-Butyl Alcohol

Concen: 0.38 ug/l

RT: 4.708 min Scan# 1113

Delta R.T. -0.000 min

Lab File: VN066685.D

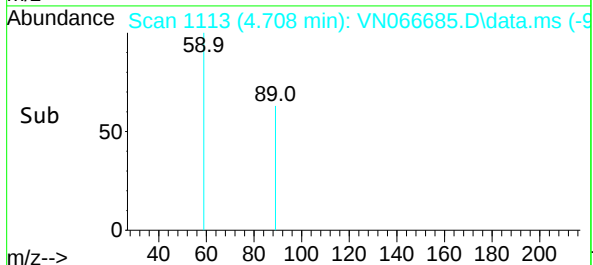
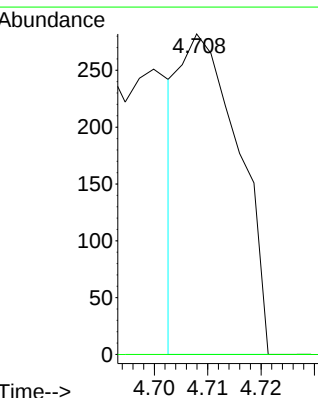
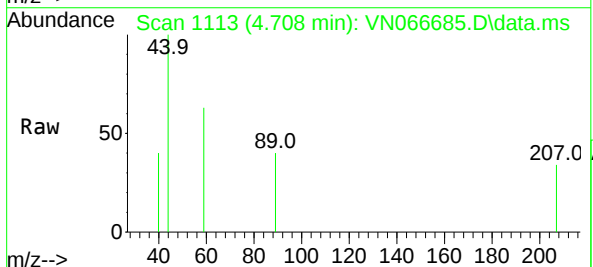
Acq: 20 Apr 2021 16:51

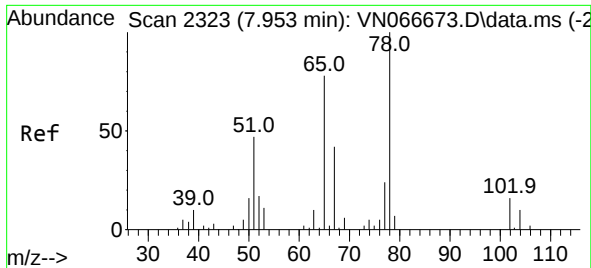
Tgt Ion: 59 Resp: 217

Ion Ratio Lower Upper

59 100

52 0.0 0.1 0.1#



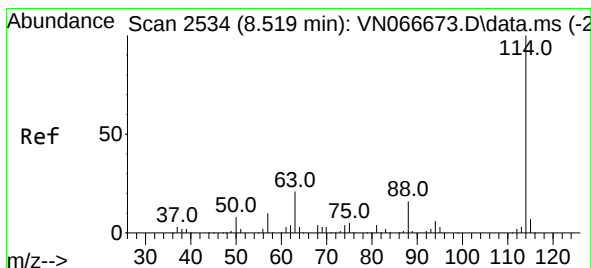
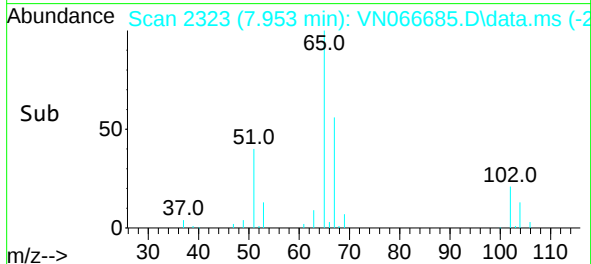
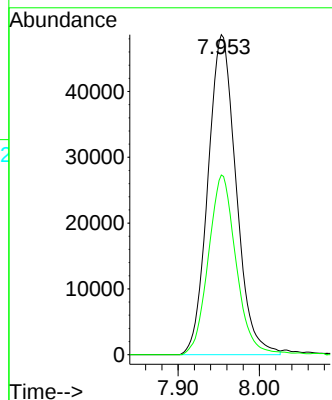
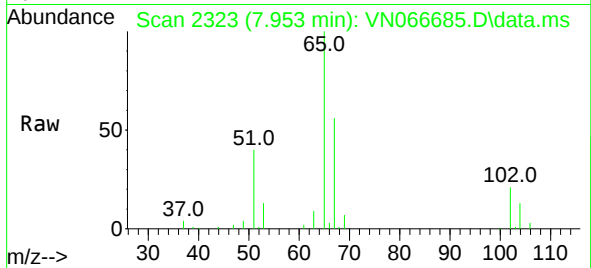


#27

1,2-Dichloroethane-d4
Concen: 30.41 ug/l
RT: 7.953 min Scan# 2323
Delta R.T. 0.000 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

Instrument :
MSVOA_N
ClientSampled :

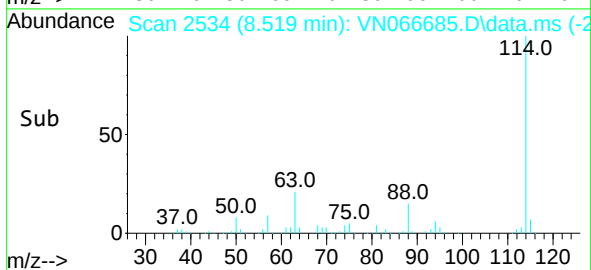
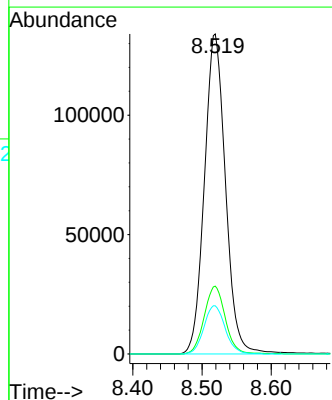
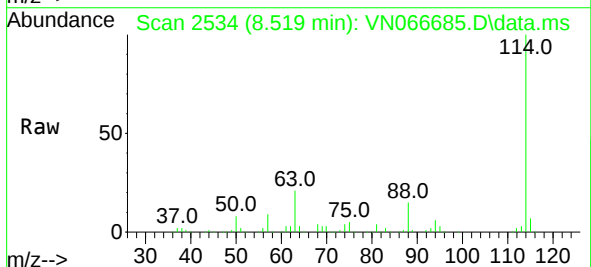
Tgt Ion: 65 Resp: 116929
Ion Ratio Lower Upper
65 100
67 55.3 42.2 63.4

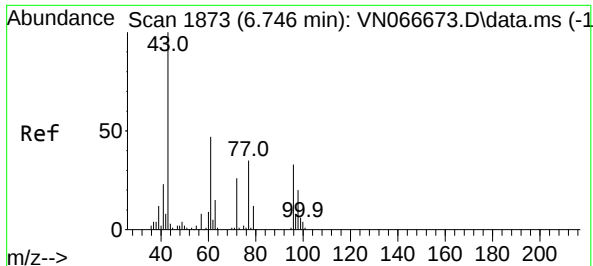


#28

1,4-Difluorobenzene
Concen: 30.00 ug/l
RT: 8.519 min Scan# 2534
Delta R.T. 0.000 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

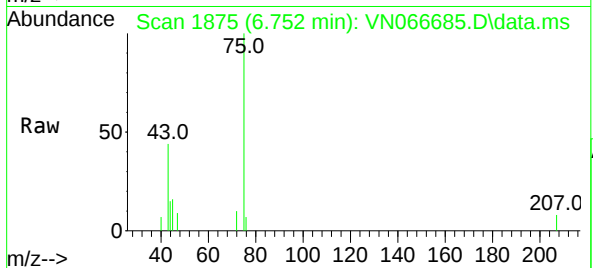
Tgt Ion: 114 Resp: 283455
Ion Ratio Lower Upper
114 100
63 21.1 17.4 26.0
88 15.2 12.6 19.0



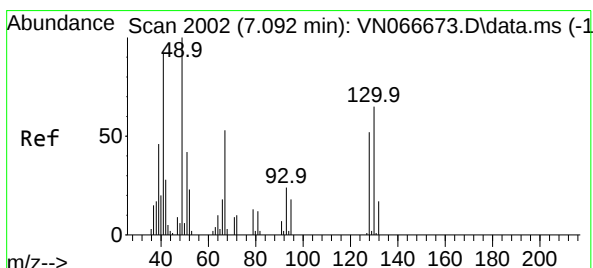
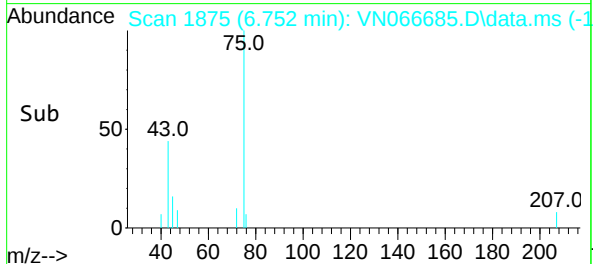
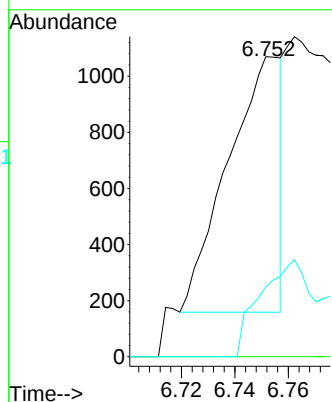


#30
2-Butanone
Concen: 0.58 ug/l
RT: 6.752 min Scan# 1875
Delta R.T. 0.006 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

Instrument :
MSVOA_N
ClientSampleId :

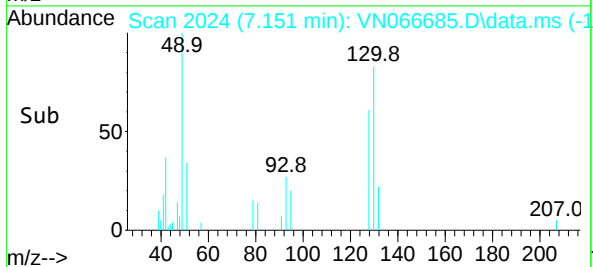
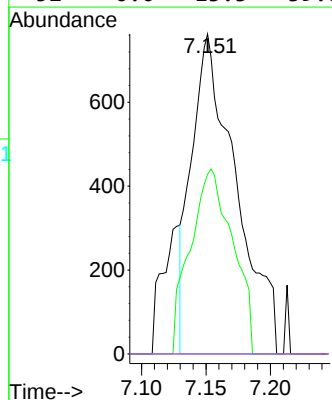
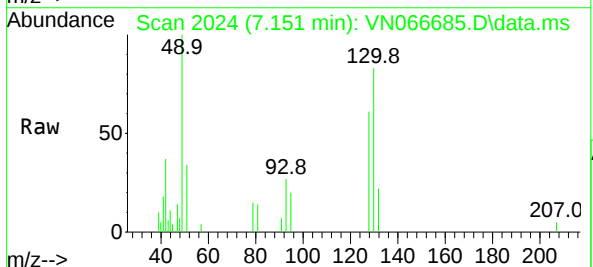


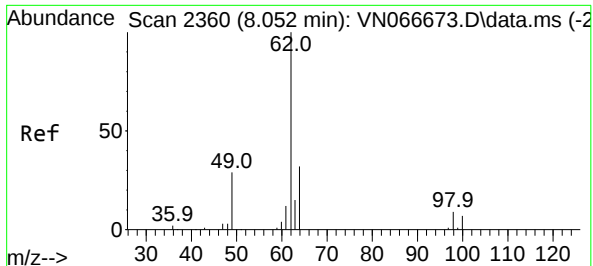
Tgt Ion: 43 Resp: 1259
Ion Ratio Lower Upper
43 100
57 0.0 6.9 10.3#
72 35.2 20.9 31.3#



#35
Methacrylonitrile
Concen: 0.88 ug/l
RT: 7.151 min Scan# 2024
Delta R.T. 0.059 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

Tgt Ion: 41 Resp: 1824
Ion Ratio Lower Upper
41 100
39 56.1 27.3 81.8
67 0.0 31.4 94.3#
52 0.0 13.3 39.8#

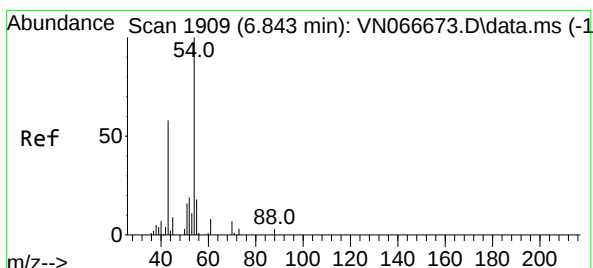
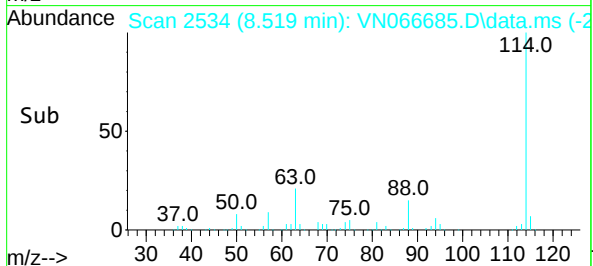
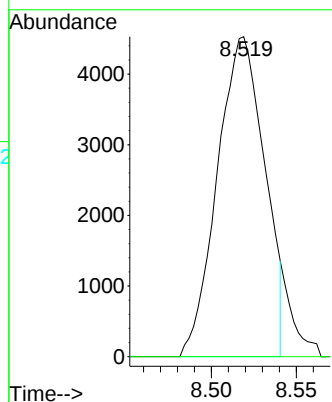
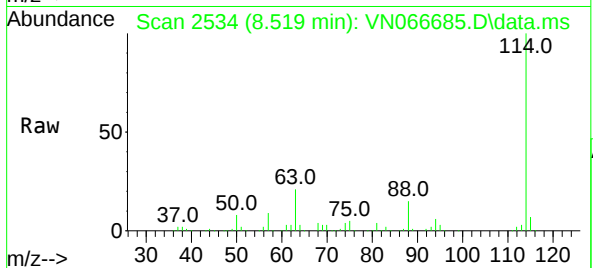




#36
1,2-Dichloroethane
Concen: 1.86 ug/l
RT: 8.519 min Scan# 2534
Delta R.T. 0.467 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

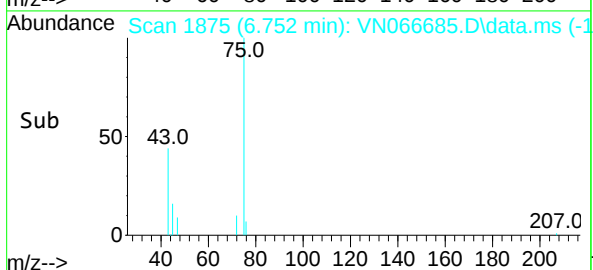
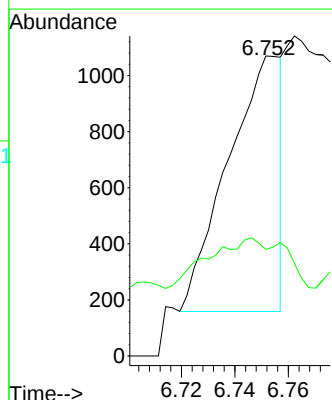
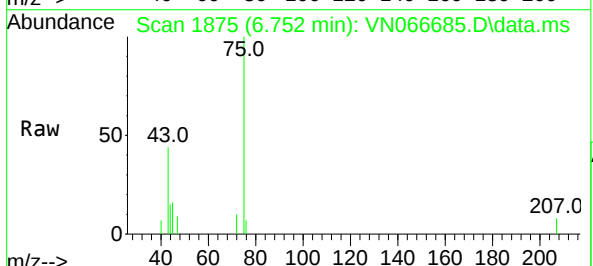
Instrument :
MSVOA_N
ClientSampled :

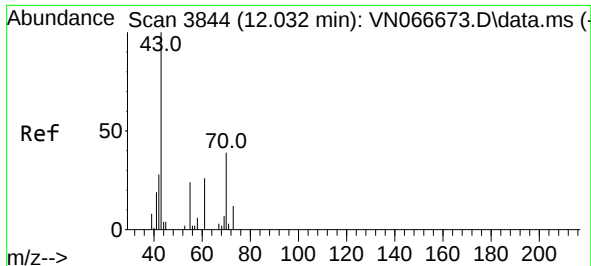
Tgt Ion: 62 Resp: 8773
Ion Ratio Lower Upper
62 100
98 0.0 6.9 10.3#



#43
Ethyl Acetate
Concen: 0.27 ug/l
RT: 6.752 min Scan# 1875
Delta R.T. -0.091 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

Tgt Ion: 43 Resp: 1259
Ion Ratio Lower Upper
43 100
45 9.3 6.3 9.5

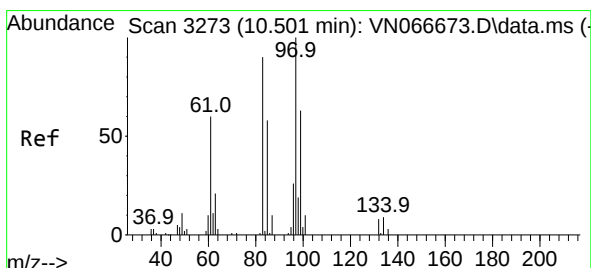
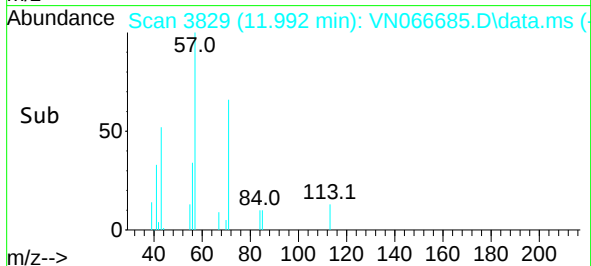
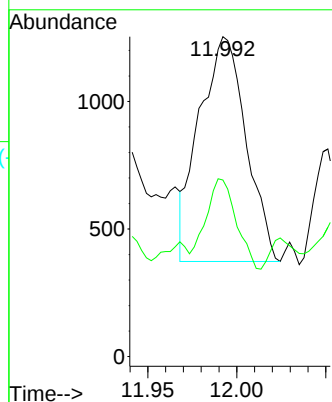
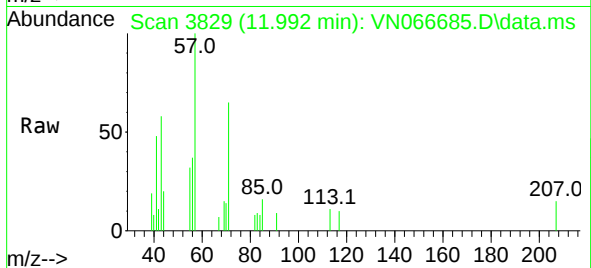




#47
n-amy1 Acetate
Concen: 19.66 ug/l
RT: 11.992 min Scan# 3829
Delta R.T. -0.040 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

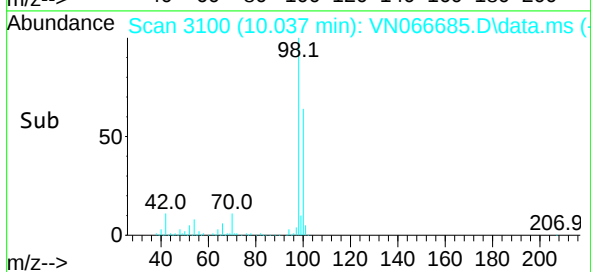
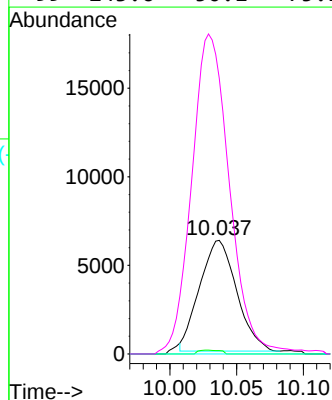
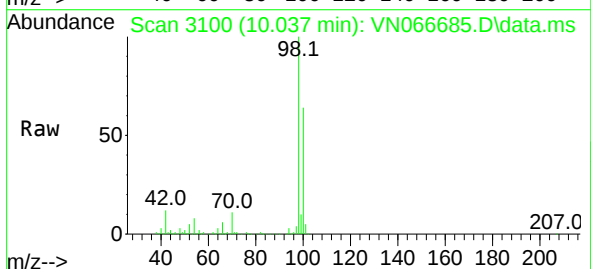
Instrument :
MSVOA_N
ClientSampleId :

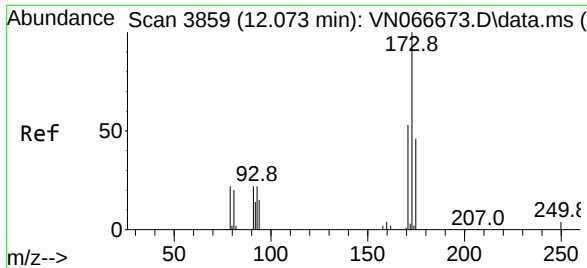
Tgt Ion: 43 Resp: 1610
Ion Ratio Lower Upper
43 100
55 26.3 17.7 26.5



#50
1,1,2-Trichloroethane
Concen: 3.49 ug/l
RT: 10.037 min Scan# 3100
Delta R.T. -0.464 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

Tgt Ion: 97 Resp: 12075
Ion Ratio Lower Upper
97 100
83 3.1 68.8 103.2#
85 0.0 44.8 67.2#
99 243.6 50.1 75.1#

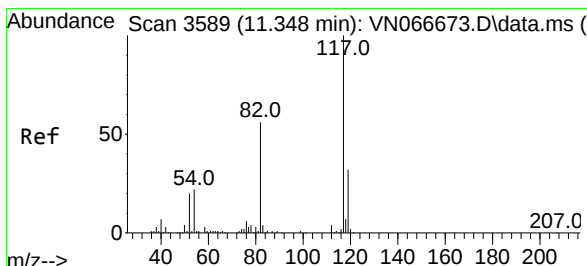
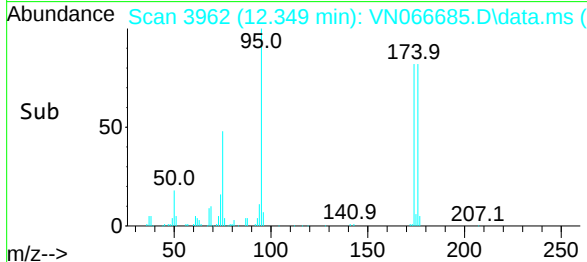
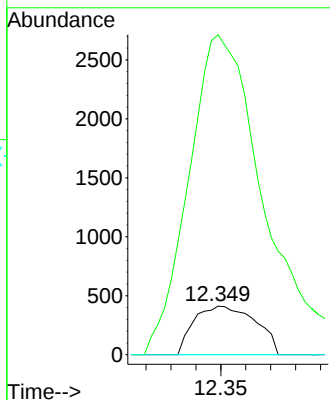
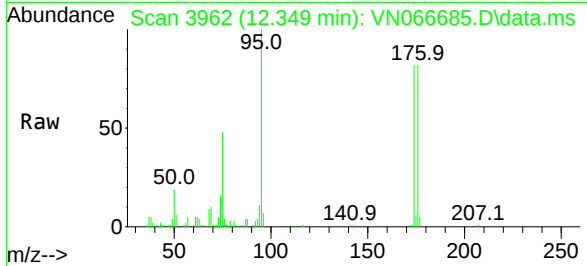




#56
Bromoform
Concen: 0.26 ug/l
RT: 12.349 min Scan# 3962
Delta R.T. 0.276 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

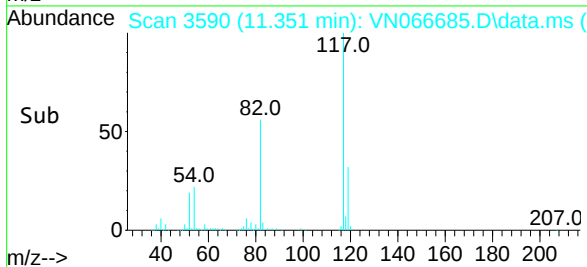
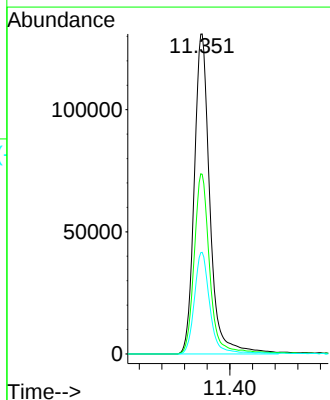
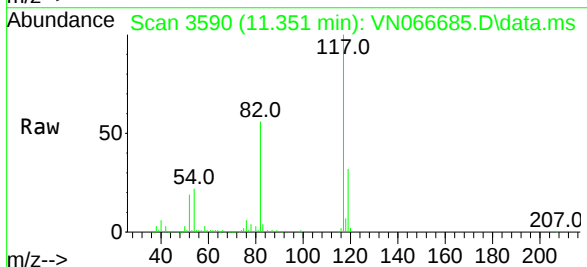
Instrument :
MSVOA_N
ClientSampled :

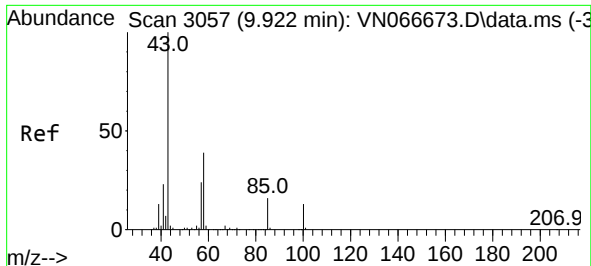
Tgt Ion:173 Resp: 707
Ion Ratio Lower Upper
173 100
175 804.0 38.3 57.5#
254 0.0 0.0 0.0



#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.351 min Scan# 3590
Delta R.T. 0.003 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

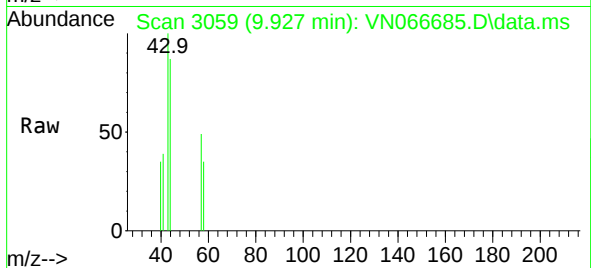
Tgt Ion:117 Resp: 250912
Ion Ratio Lower Upper
117 100
82 54.8 45.0 67.6
119 30.9 25.5 38.3



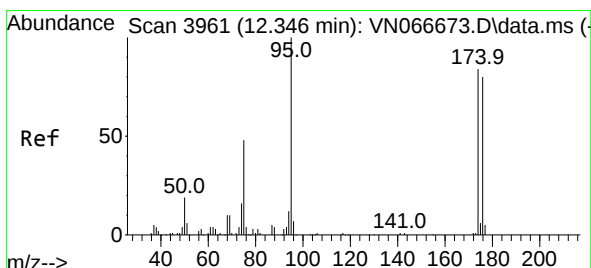
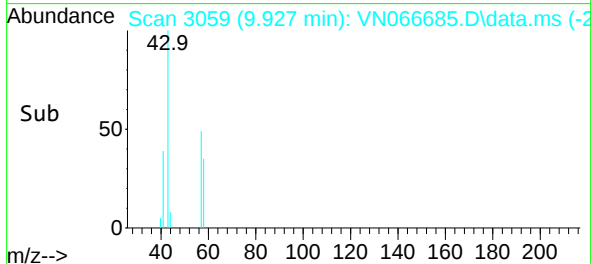
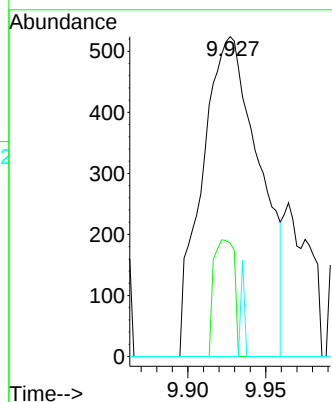


#58
4-Methyl-2-Pentanone
Concen: 0.31 ug/l
RT: 9.927 min Scan# 3059
Delta R.T. 0.005 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

Instrument :
MSVOA_N
ClientSampled :

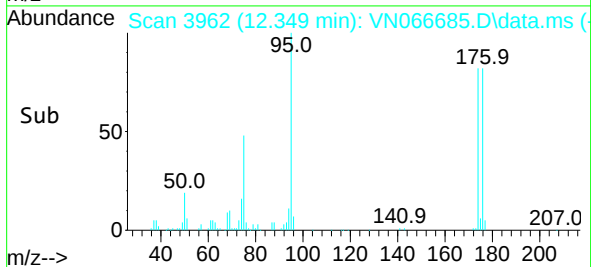
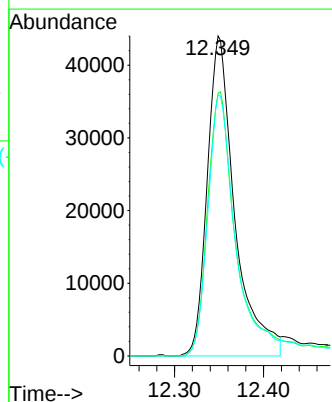
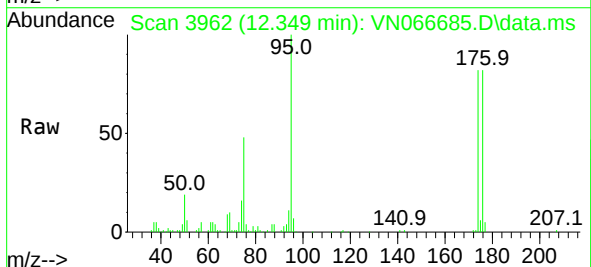


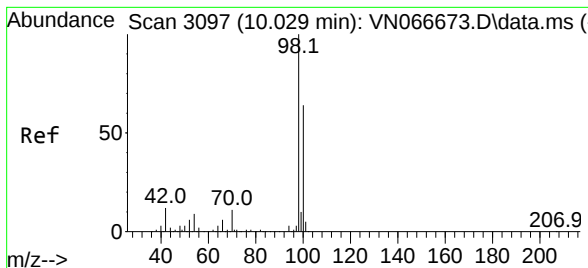
Tgt Ion: 43	Resp: 1345
Ion Ratio	Lower Upper
43	100
58	10.8 30.4 45.6#
85	0.0 13.8 20.8#



#60
4-Bromofluorobenzene
Concen: 24.08 ug/l
RT: 12.349 min Scan# 3962
Delta R.T. 0.003 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

Tgt Ion: 95	Resp: 94681
Ion Ratio	Lower Upper
95	100
174	86.2 68.1 102.1
176	83.3 65.4 98.0

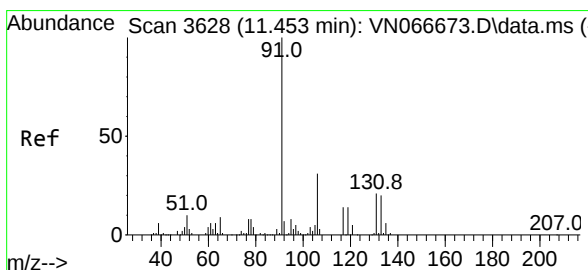
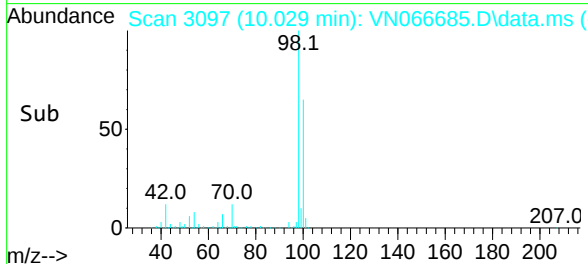
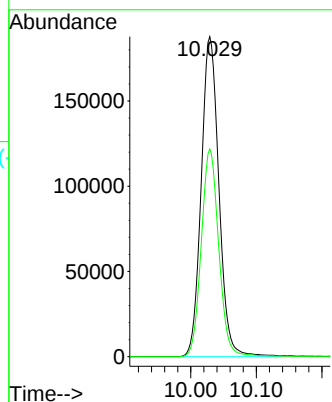
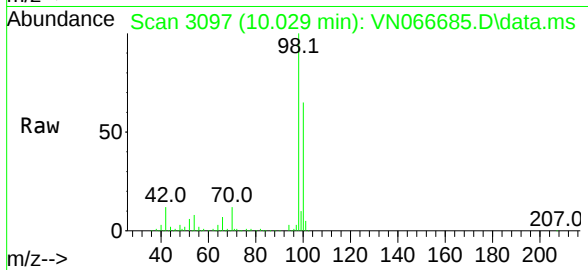




#63
Toluene-d8
Concen: 30.48 ug/l
RT: 10.029 min Scan# 3097
Delta R.T. -0.000 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

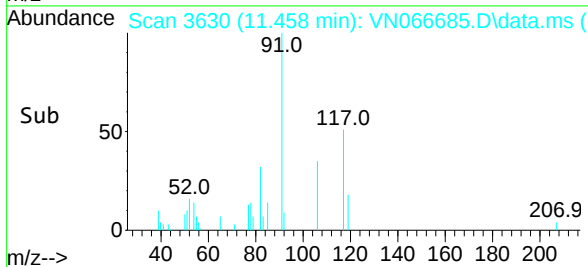
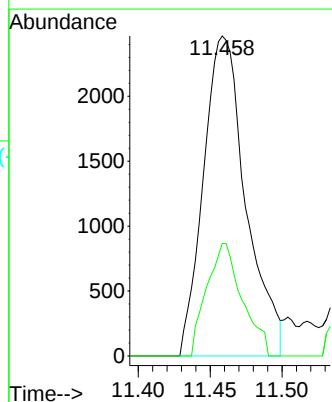
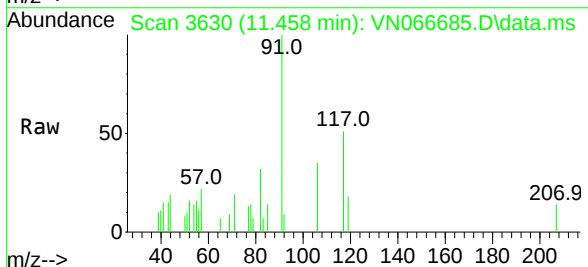
Instrument :
MSVOA_N
ClientSampleId :

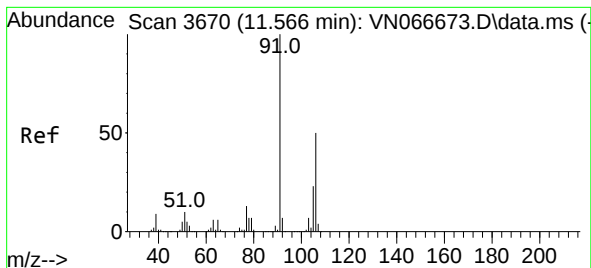
Tgt Ion: 98 Resp: 351911
Ion Ratio Lower Upper
98 100
100 63.9 51.1 76.7



#66
Ethyl Benzene
Concen: 0.33 ug/l
RT: 11.458 min Scan# 3630
Delta R.T. 0.005 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

Tgt Ion: 91 Resp: 5060
Ion Ratio Lower Upper
91 100
106 35.1 25.5 38.3

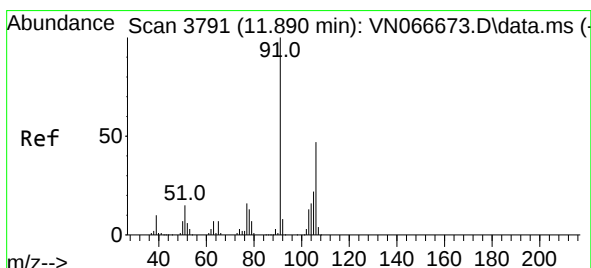
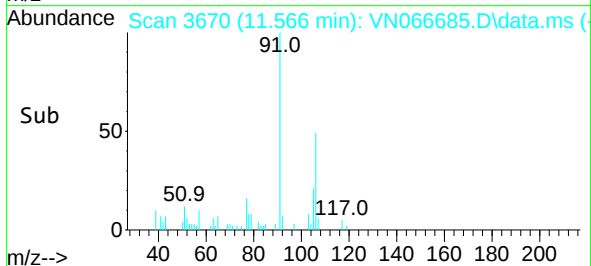
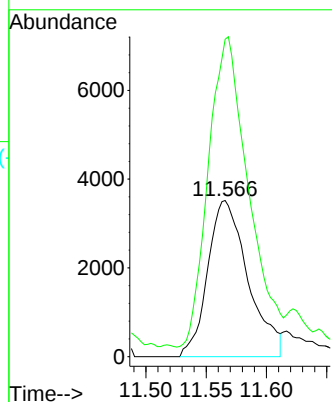
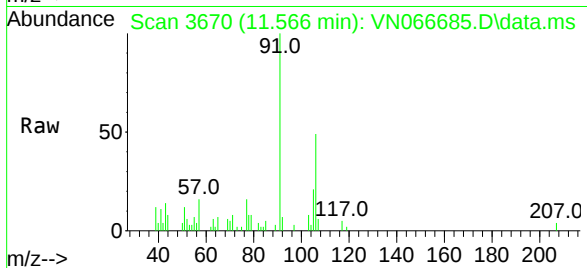




#67
m/p-Xylenes
Concen: 1.43 ug/l
RT: 11.566 min Scan# 3670
Delta R.T. -0.000 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

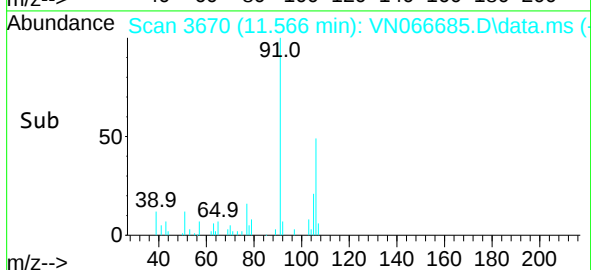
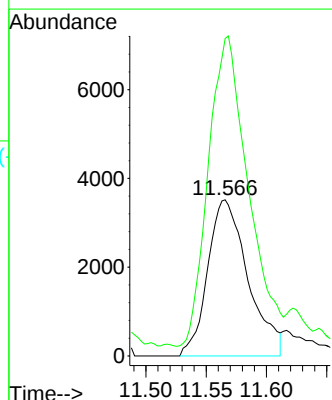
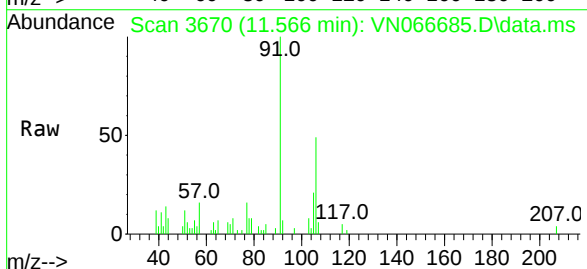
Instrument :
MSVOA_N
ClientSampled :

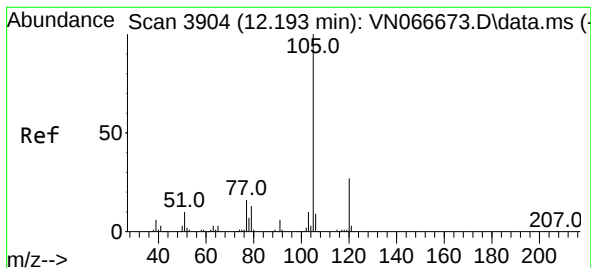
Tgt Ion:106 Resp: 8187
Ion Ratio Lower Upper
106 100
91 197.1 164.8 247.2



#68
o-Xylene
Concen: 1.48 ug/l
RT: 11.566 min Scan# 3670
Delta R.T. -0.324 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

Tgt Ion:106 Resp: 8187
Ion Ratio Lower Upper
106 100
91 197.1 107.1 321.4





#70

Isopropylbenzene

Concen: 0.76 ug/l

RT: 12.606 min Scan# 4058

Delta R.T. 0.413 min

Lab File: VN066685.D

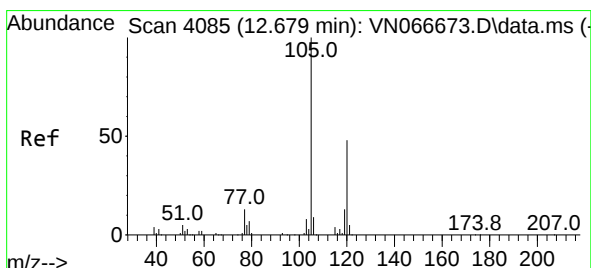
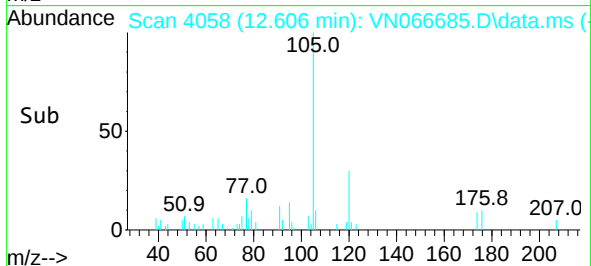
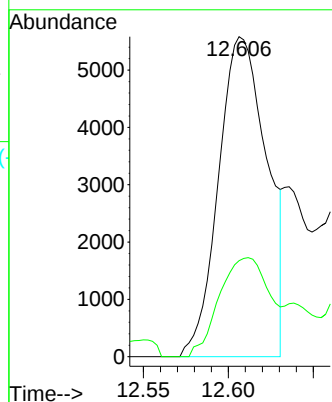
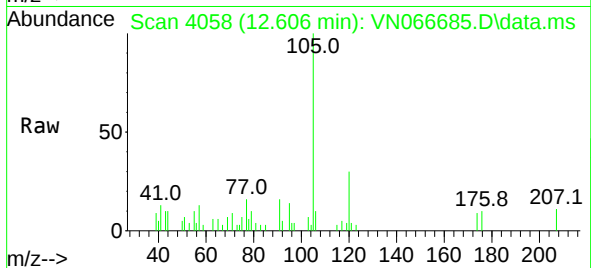
Acq: 20 Apr 2021 16:51

Tgt Ion:105 Resp: 11068

Ion Ratio Lower Upper

105 100

120 32.0 18.7 34.7



#76

1,3,5-Trimethylbenzene

Concen: 0.93 ug/l

RT: 12.681 min Scan# 4086

Delta R.T. 0.002 min

Lab File: VN066685.D

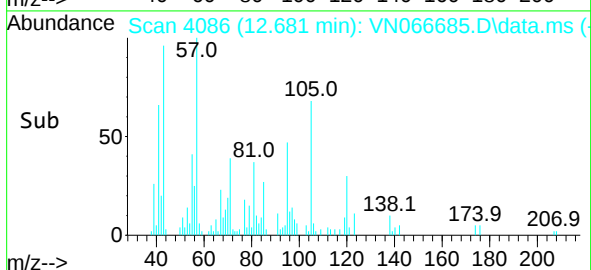
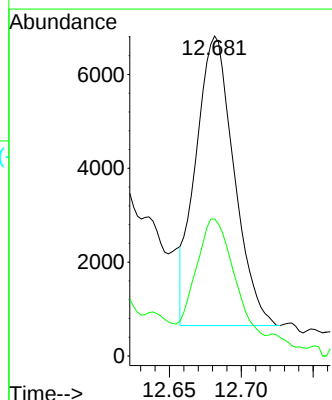
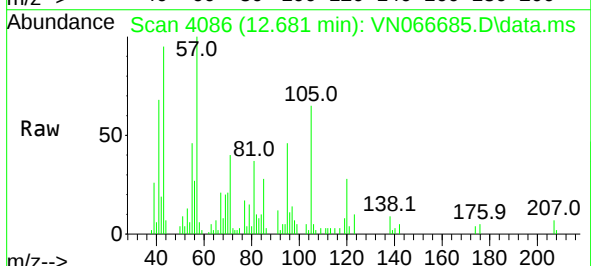
Acq: 20 Apr 2021 16:51

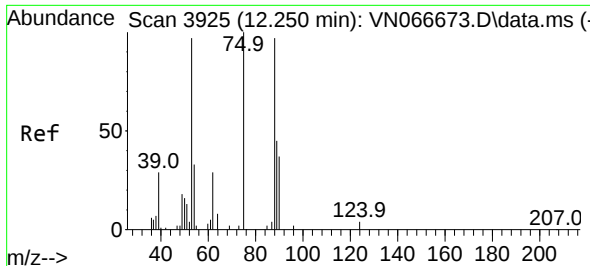
Tgt Ion:105 Resp: 11410

Ion Ratio Lower Upper

105 100

120 38.7 0.0 98.2

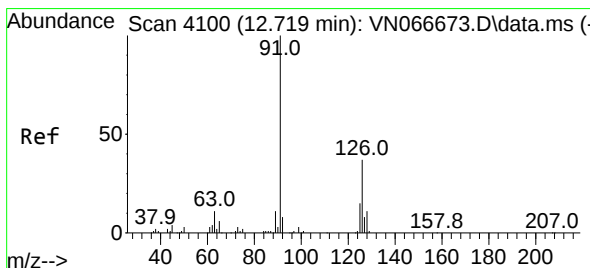
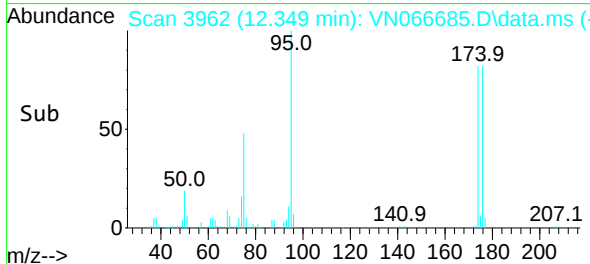
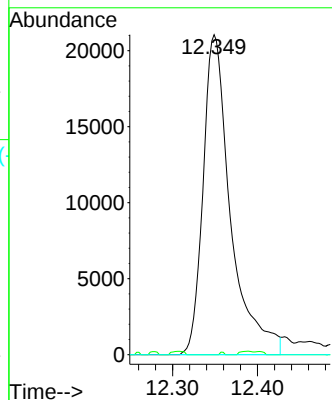
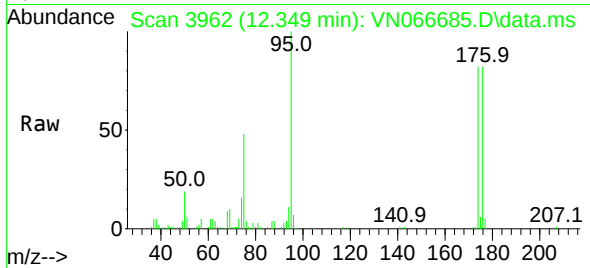




#77
t-1,4-Dichloro-2-butene
Concen: 36.03 ug/l
RT: 12.349 min Scan# 3962
Delta R.T. 0.099 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

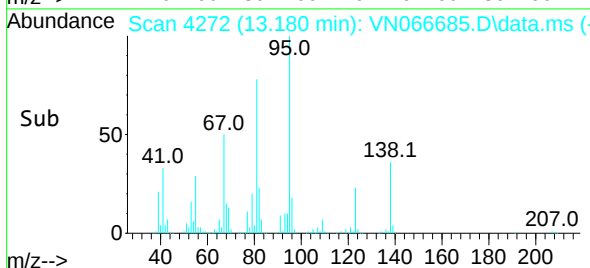
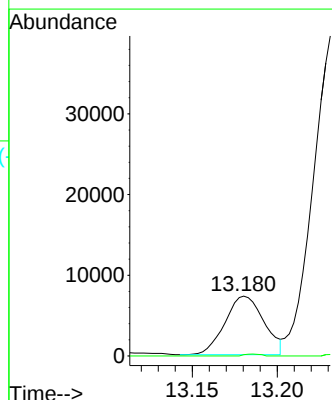
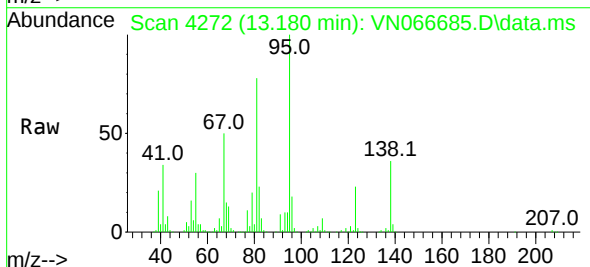
Instrument :
MSVOA_N
ClientSampleId :

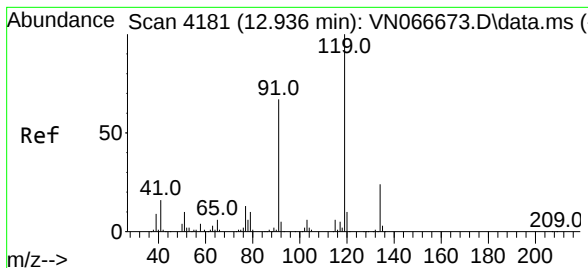
Tgt Ion: 75 Resp: 47329
Ion Ratio Lower Upper
75 100
53 0.0 49.6 149.0#
89 0.0 22.9 68.7#



#78
4-Chlorotoluene
Concen: 1.18 ug/l
RT: 13.180 min Scan# 4272
Delta R.T. 0.461 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

Tgt Ion: 91 Resp: 11625
Ion Ratio Lower Upper
91 100
126 1.3 0.0 65.4

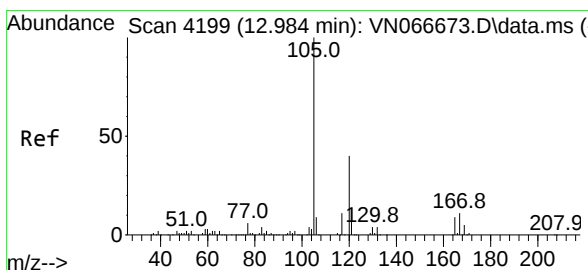
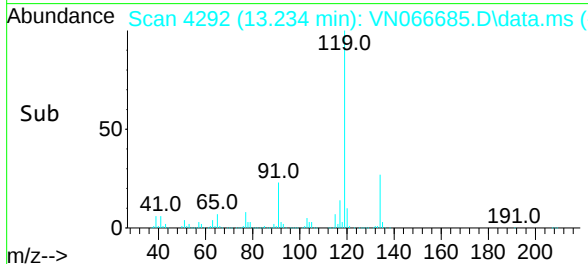
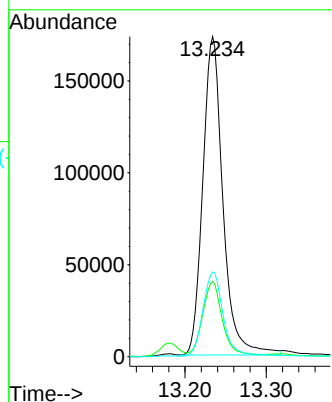
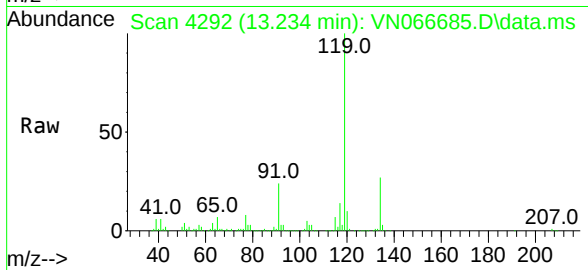




#79
tert-butylbenzene
Concen: 29.11 ug/l
RT: 13.234 min Scan# 4292
Delta R.T. 0.298 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

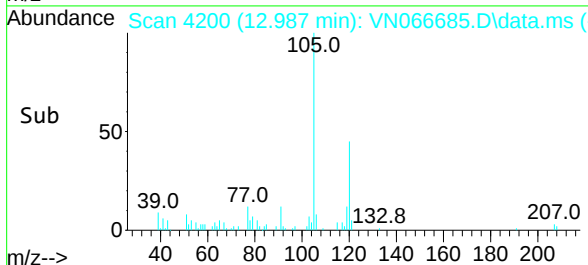
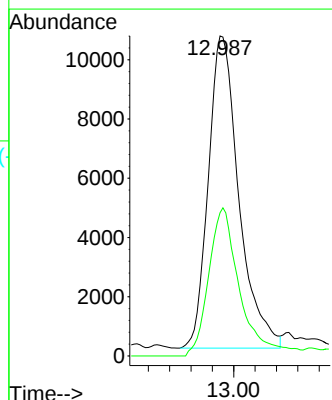
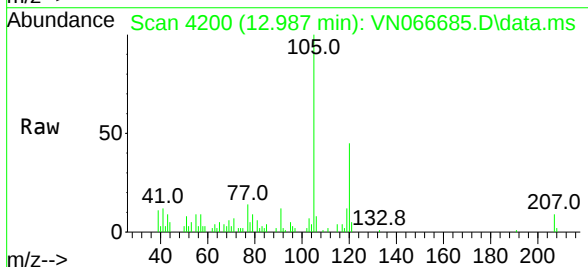
Instrument :
MSVOA_N
ClientSampleId :

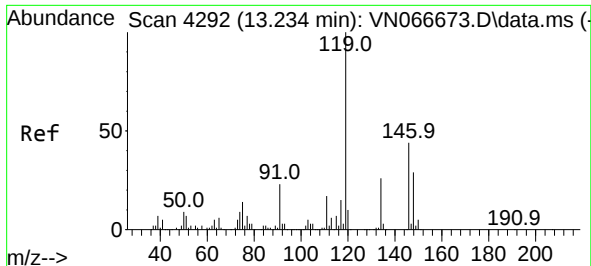
Tgt Ion:119 Resp: 298215
Ion Ratio Lower Upper
119 100
91 22.3 0.0 133.4
134 26.8 0.0 51.0



#80
1,2,4-Trimethylbenzene
Concen: 1.78 ug/l
RT: 12.987 min Scan# 4200
Delta R.T. 0.003 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

Tgt Ion:105 Resp: 20920
Ion Ratio Lower Upper
105 100
120 47.9 0.0 90.6

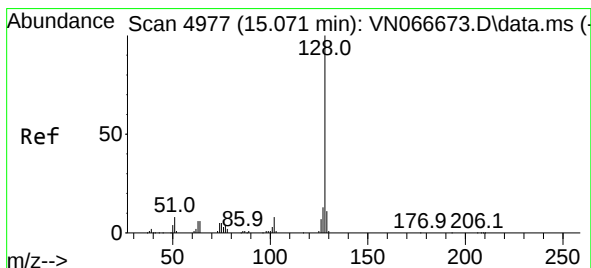
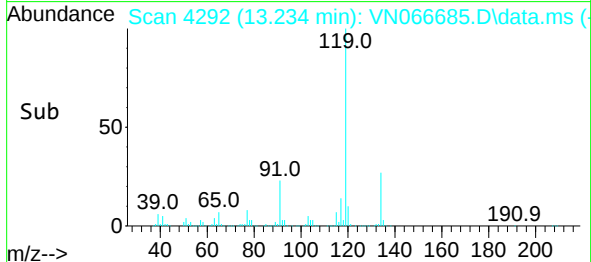
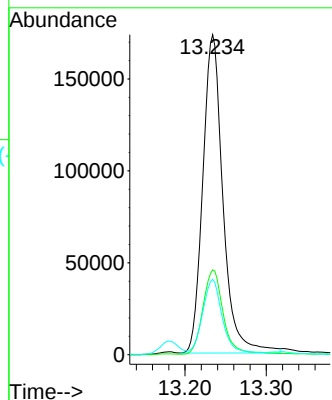
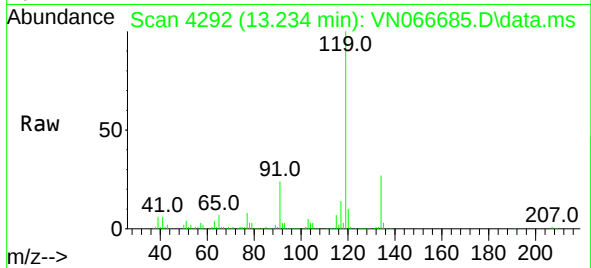




#82
p-Isopropyltoluene
Concen: 25.57 ug/l
RT: 13.234 min Scan# 4292
Delta R.T. -0.000 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion:119 Resp: 298215
Ion Ratio Lower Upper
119 100
134 26.8 0.0 53.4
91 22.3 0.0 47.6



#91
Naphthalene
Concen: 0.21 ug/l
RT: 15.087 min Scan# 4983
Delta R.T. 0.016 min
Lab File: VN066685.D
Acq: 20 Apr 2021 16:51

Tgt Ion:128 Resp: 1739
Ion Ratio Lower Upper
128 100
127 11.4 10.2 15.2
129 0.0 8.6 13.0#

