

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050821\
 Data File : VN067057.D
 Acq On : 7 May 2021 17:46
 Operator : JC/MD
 Sample : M2313-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 08 03:26:03 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050721W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 07 07:26:20 2021
 Response via : Initial Calibration

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

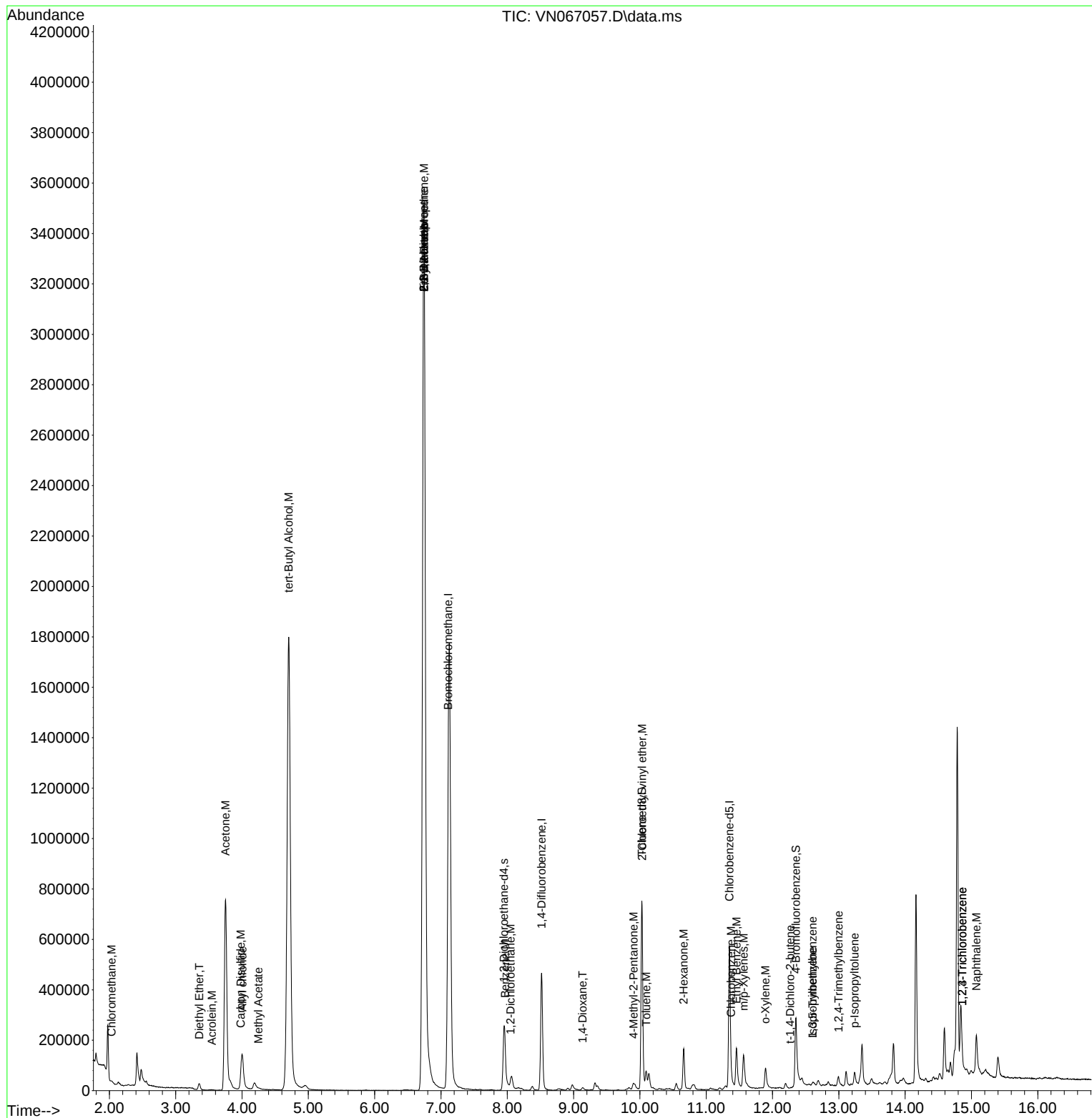
Internal Standards						
1) Bromochloromethane	7.109	128	76001	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.517	114	389925	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.350	117	340194	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.952	65	205845	30.91	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.03%
60) 4-Bromofluorobenzene	12.353	95	129968	22.96	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	76.53%
63) Toluene-d8	10.030	98	514109	30.51	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.70%
Target Compounds						
					Qvalue	
3) Chloromethane	2.032	50	2215	0.28	ug/l	94
8) Diethyl Ether	3.355	74	11065	3.52	ug/l	93
12) Methyl Acetate	4.248	43	2615	0.43	ug/l	100
13) Acrolein	3.545	56	1097	1.09	ug/l #	32
15) Acetone	3.752	58	399262	565.80	ug/l	95
16) Carbon Disulfide	3.980	76	24104	1.68	ug/l	100
17) Allyl chloride	4.006	41	19691	2.33	ug/l	88
22) cis-1,2-Dichloroethene	6.745	96	2127	0.39	ug/l #	1
23) tert-Butyl Alcohol	4.704	59	3674260	3794.16	ug/l #	100
30) 2-Butanone	6.745	43	2401147	734.31	ug/l	97
31) 2,2-Dichloropropane	6.739	77	177630	21.58	ug/l #	54
34) Benzene	7.968	78	46741	2.11	ug/l #	15
36) 1,2-Dichloroethane	8.051	62	1876	0.23	ug/l #	77
43) Ethyl Acetate	6.745	43	2401147	311.68	ug/l #	53
45) 1,4-Dioxane	9.134	88	4272	57.14	ug/l #	82
55) 2-Chloroethyl vinyl ether	10.033	63	513	0.39	ug/l #	1
58) 4-Methyl-2-Pentanone	9.904	43	9492	1.49	ug/l #	46
59) 2-Hexanone	10.660	43	128209	34.13	ug/l #	34
62) Toluene	10.094	91	49644	2.37	ug/l	100
64) Chlorobenzene	11.376	112	8831	0.72	ug/l	94
66) Ethyl Benzene	11.457	91	118050	5.54	ug/l	100
67) m/p-Xylenes	11.564	106	45661	5.71	ug/l	84
68) o-Xylene	11.894	106	25868	3.28	ug/l	91
70) Isopropylbenzene	12.605	105	5780	0.28	ug/l	85
76) 1,3,5-Trimethylbenzene	12.605	105	5780	0.32	ug/l	57
77) t-1,4-Dichloro-2-butene	12.267	75	53	7.39	ug/l #	16
80) 1,2,4-Trimethylbenzene	12.994	105	23476	1.38	ug/l	94
82) p-Isopropyltoluene	13.238	119	31229	1.94	ug/l	98
89) 1,2,4-Trichlorobenzene	14.863	180	1843	0.43	ug/l #	80
91) Naphthalene	15.075	128	169577	14.41	ug/l	98
92) 1,2,3-Trichlorobenzene	14.863	180	1843	0.41	ug/l	83

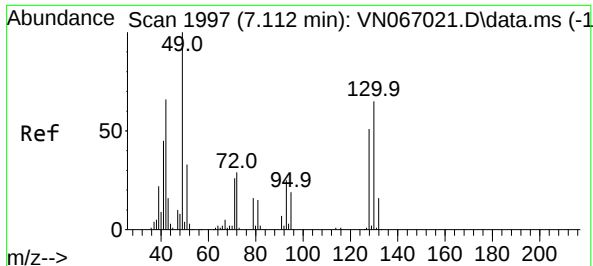
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050821\
Data File : VN067057.D
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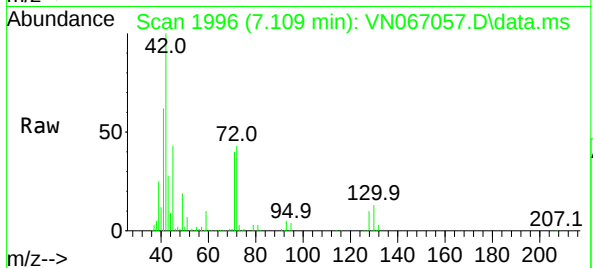
Quant Time: May 08 03:26:03 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050721W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri May 07 07:26:20 2021
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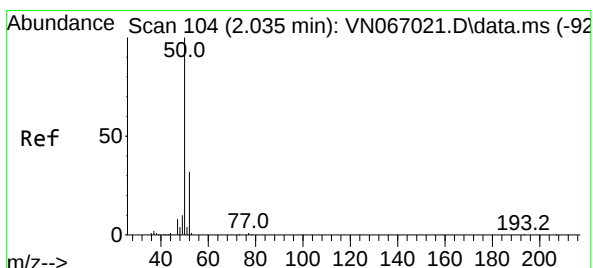
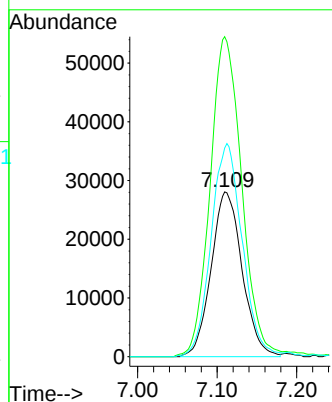
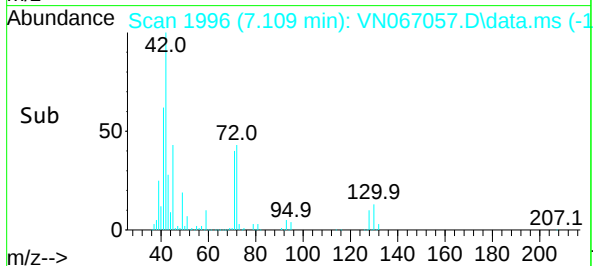


#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 7.109 min Scan# 1996
Delta R.T. -0.003 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

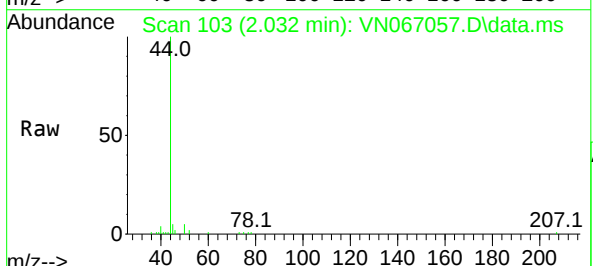
Instrument :
MSVOA_N
ClientSampled :



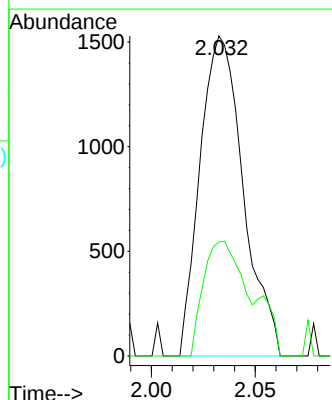
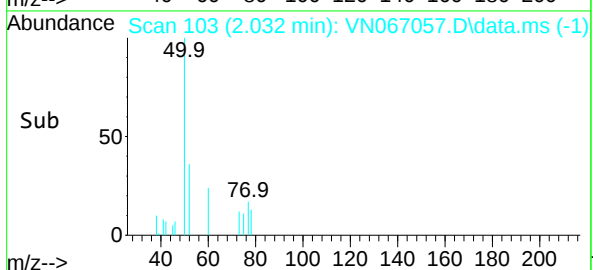
Tgt Ion:128 Resp: 76001
Ion Ratio Lower Upper
128 100
49 197.7 0.0 486.3
130 128.5 0.0 326.0

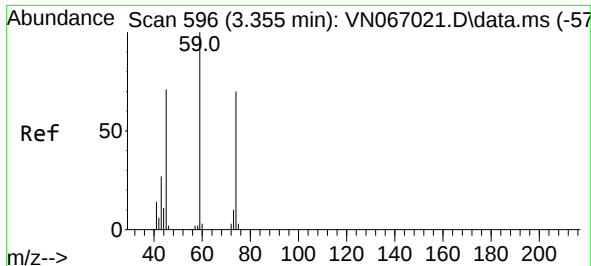


#3
Chloromethane
Concen: 0.28 ug/l
RT: 2.032 min Scan# 103
Delta R.T. -0.003 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46



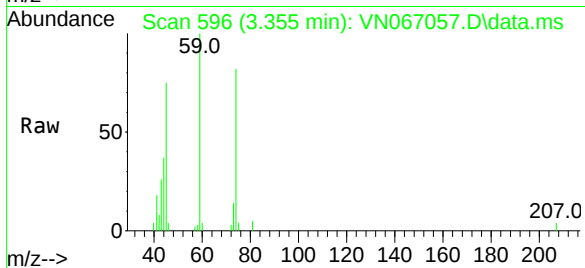
Tgt Ion: 50 Resp: 2215
Ion Ratio Lower Upper
50 100
52 35.6 25.9 38.9



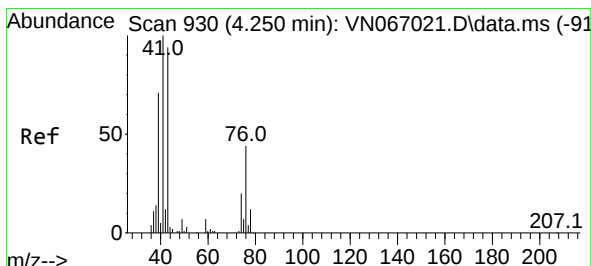
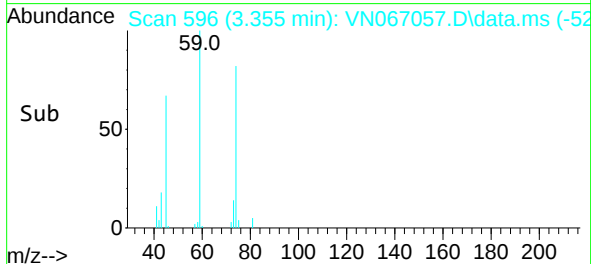
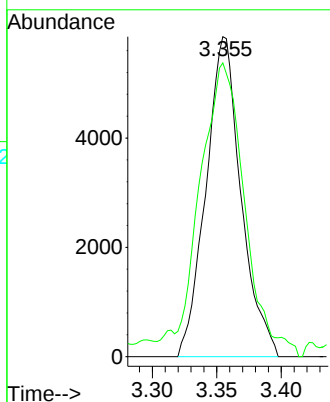


#8
Diethyl Ether
Concen: 3.52 ug/l
RT: 3.355 min Scan# 596
Delta R.T. 0.000 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

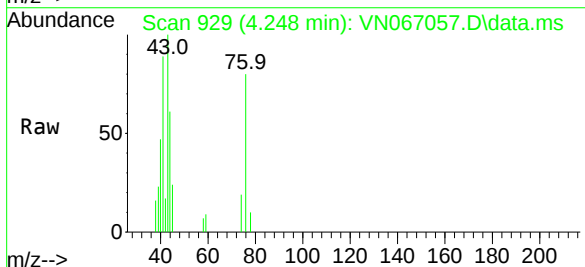
Instrument :
MSVOA_N
ClientSampled :



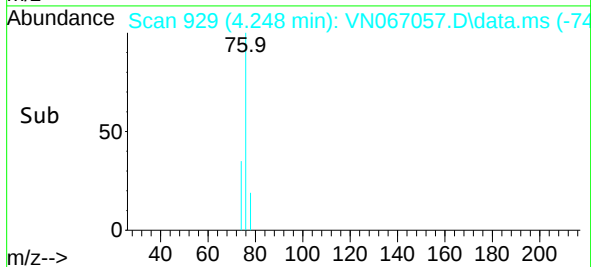
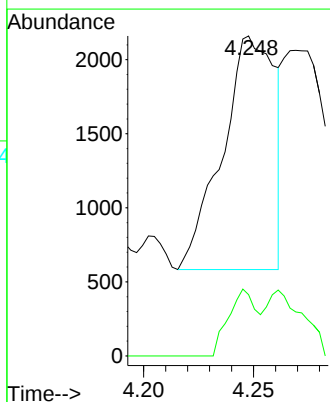
Tgt Ion: 74 Resp: 11065
Ion Ratio Lower Upper
74 100
45 98.4 21.1 190.3

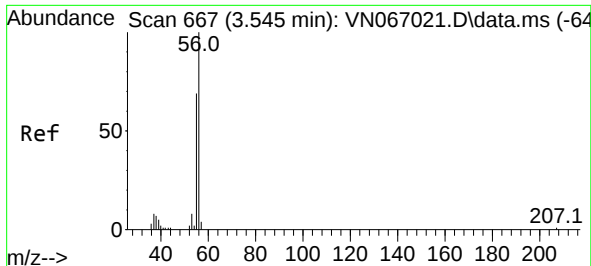


#12
Methyl Acetate
Concen: 0.43 ug/l
RT: 4.248 min Scan# 929
Delta R.T. -0.003 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46



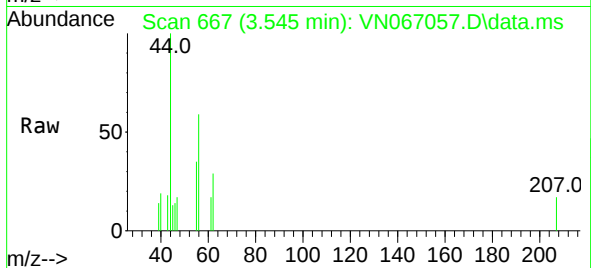
Tgt Ion: 43 Resp: 2615
Ion Ratio Lower Upper
43 100
74 21.4 17.2 25.8



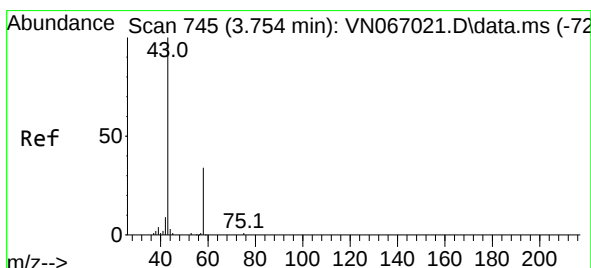
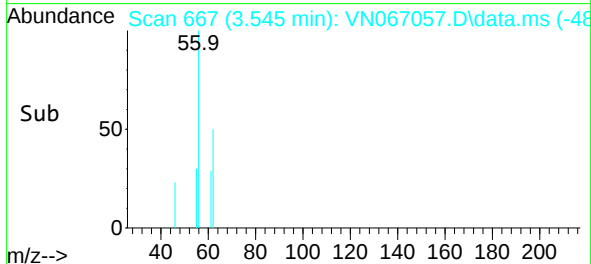
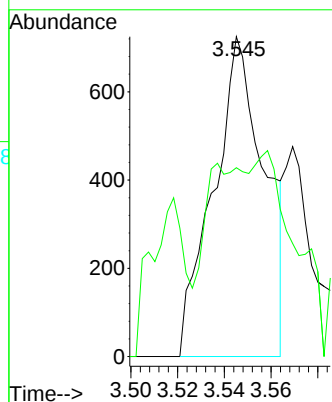


#13
Acrolein
Concen: 1.09 ug/l
RT: 3.545 min Scan# 667
Delta R.T. 0.000 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

Instrument :
MSVOA_N
ClientSampleId :

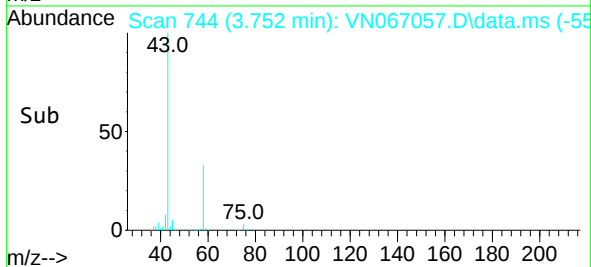
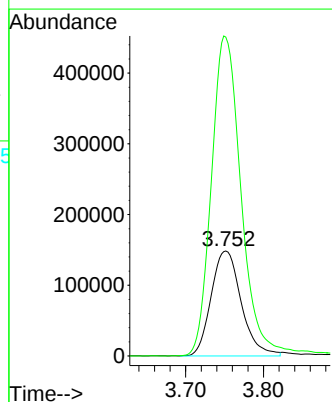
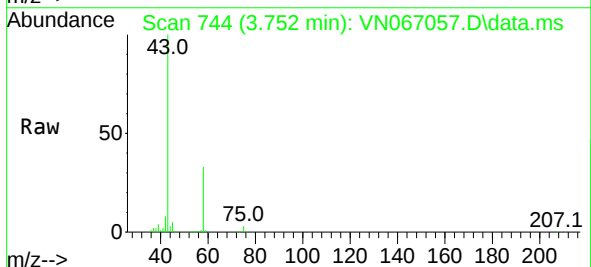


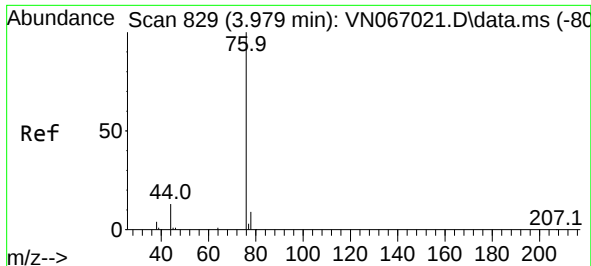
Tgt Ion: 56 Resp: 1097
Ion Ratio Lower Upper
56 100
55 14.9 56.6 84.8#



#15
Acetone
Concen: 565.80 ug/l
RT: 3.752 min Scan# 744
Delta R.T. -0.003 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

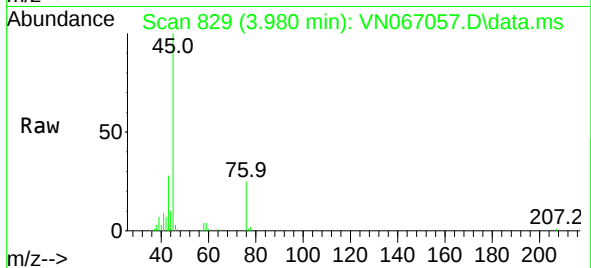
Tgt Ion: 58 Resp: 399262
Ion Ratio Lower Upper
58 100
43 303.2 235.0 352.6



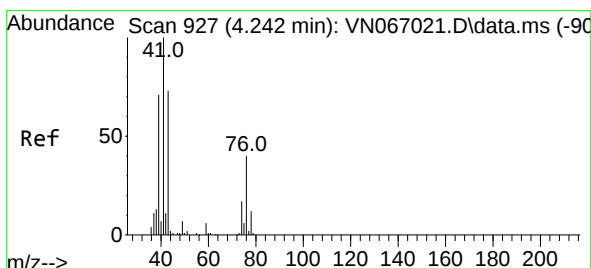
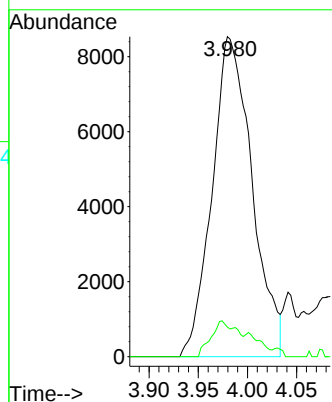
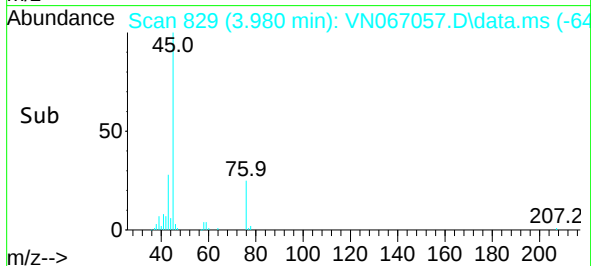


#16
Carbon Disulfide
Concen: 1.68 ug/l
RT: 3.980 min Scan# 829
Delta R.T. 0.000 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

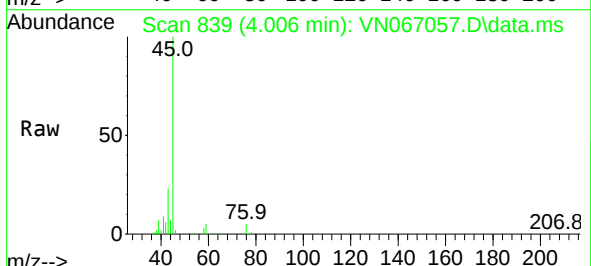
Instrument :
MSVOA_N
ClientSampled :



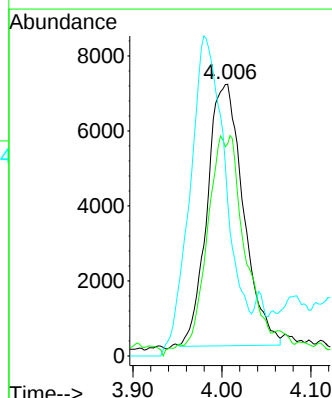
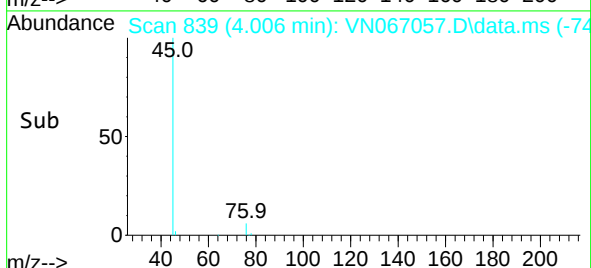
Tgt Ion: 76 Resp: 24104
Ion Ratio Lower Upper
76 100
78 9.3 7.5 11.3

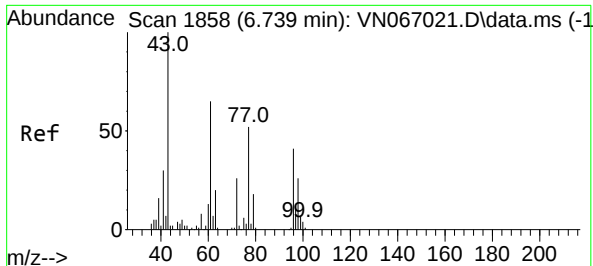


#17
Allyl chloride
Concen: 2.33 ug/l
RT: 4.006 min Scan# 839
Delta R.T. -0.236 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46



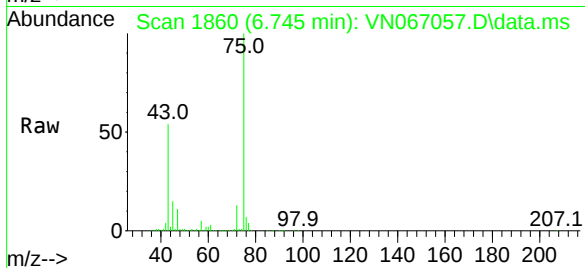
Tgt Ion: 41 Resp: 19691
Ion Ratio Lower Upper
41 100
39 76.8 33.1 99.5
76 41.8 17.9 53.8



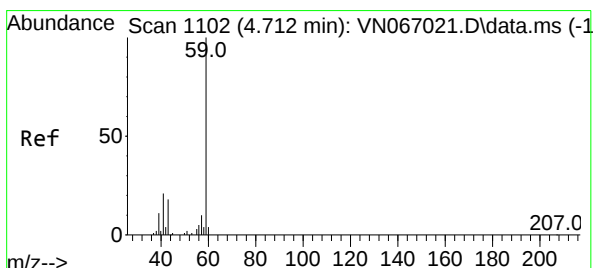
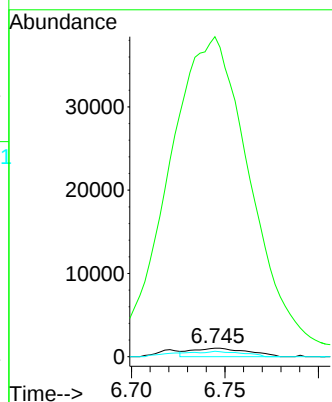
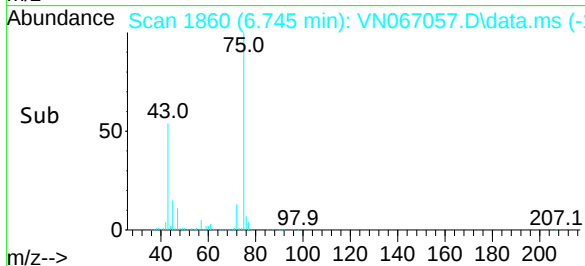


#22
 cis-1,2-Dichloroethene
 Concen: 0.39 ug/l
 RT: 6.745 min Scan# 1860
 Delta R.T. 0.006 min
 Lab File: VN067057.D
 Acq: 7 May 2021 17:46

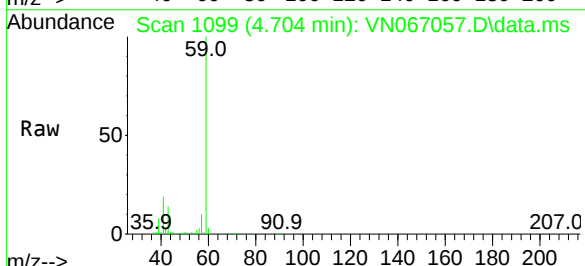
Instrument :
 MSVOA_N
 ClientSampled :



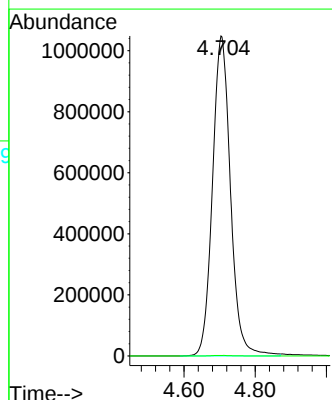
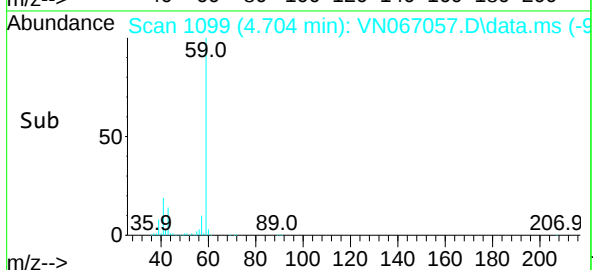
Tgt Ion: 96 Resp: 2127
 Ion Ratio Lower Upper
 96 100
 61 5649.8 129.4 194.2#
 98 5.4 52.0 78.0#

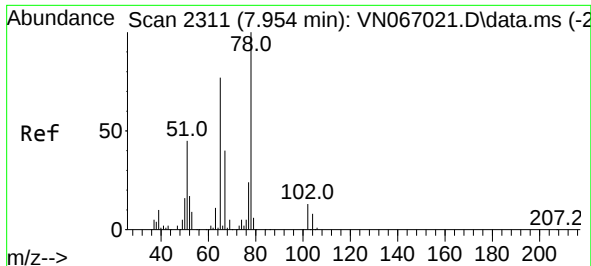


#23
 tert-Butyl Alcohol
 Concen: 3794.16 ug/l
 RT: 4.704 min Scan# 1099
 Delta R.T. -0.008 min
 Lab File: VN067057.D
 Acq: 7 May 2021 17:46



Tgt Ion: 59 Resp: 3674260
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0#





#27

1,2-Dichloroethane-d4

Concen: 30.91 ug/l

RT: 7.952 min Scan# 2310

Delta R.T. -0.002 min

Lab File: VN067057.D

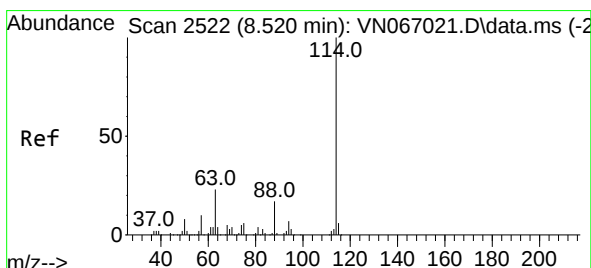
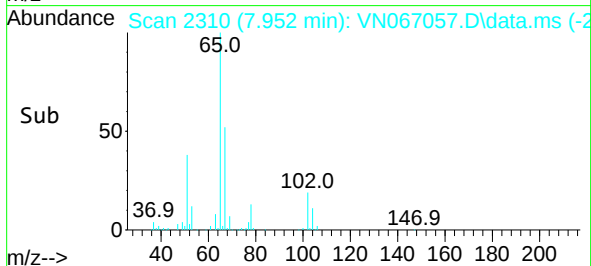
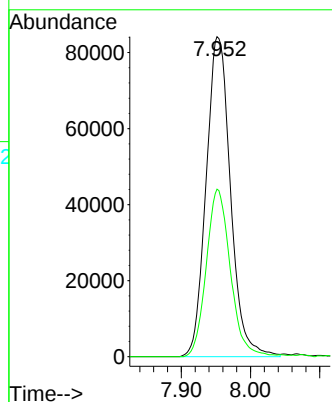
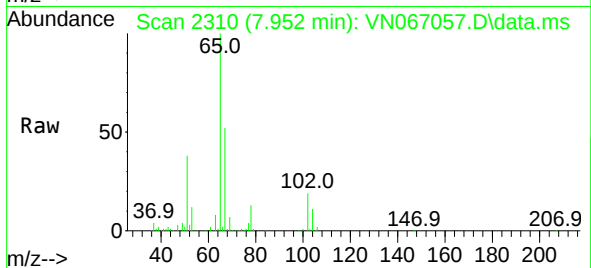
Acq: 7 May 2021 17:46

Tgt Ion: 65 Resp: 205845

Ion Ratio Lower Upper

65 100

67 51.5 41.6 62.4



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.517 min Scan# 2521

Delta R.T. -0.003 min

Lab File: VN067057.D

Acq: 7 May 2021 17:46

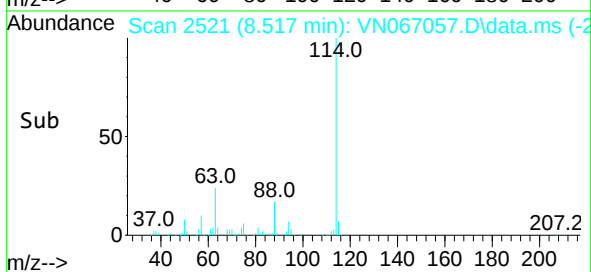
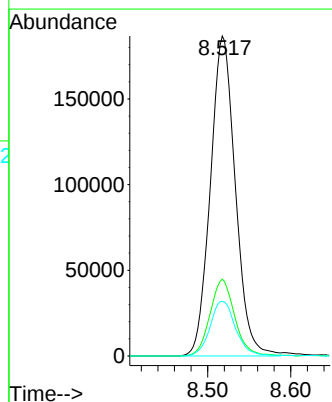
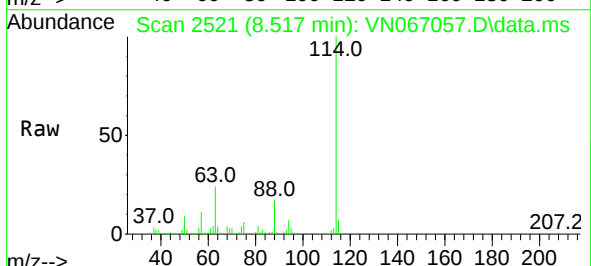
Tgt Ion: 114 Resp: 389925

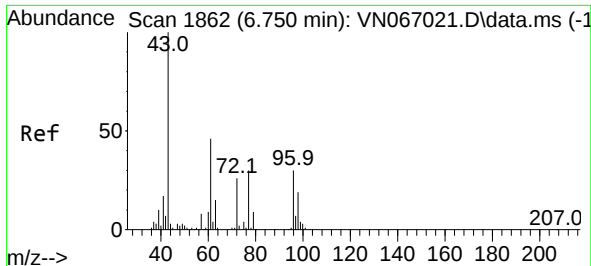
Ion Ratio Lower Upper

114 100

63 23.5 18.8 28.2

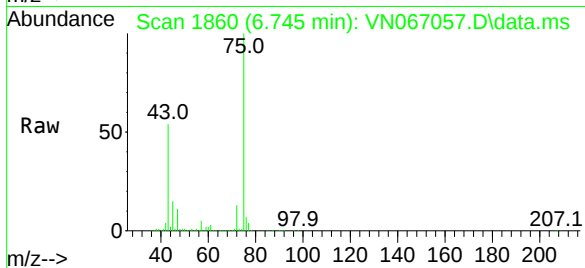
88 17.5 13.8 20.6



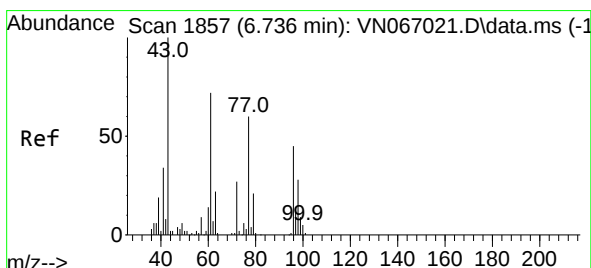
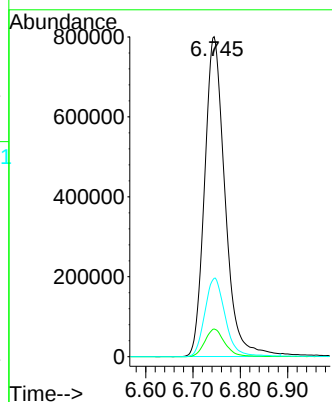
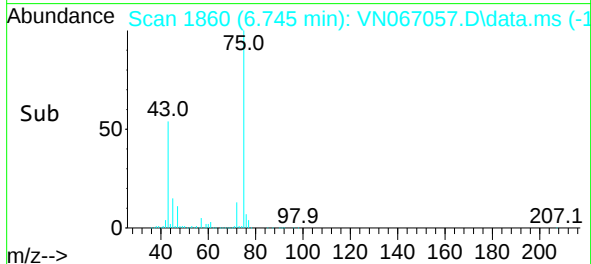


#30
2-Butanone
Concen: 734.31 ug/l
RT: 6.745 min Scan# 1860
Delta R.T. -0.005 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

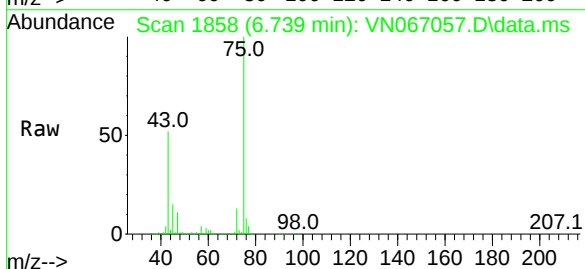
Instrument :
MSVOA_N
ClientSampleId :



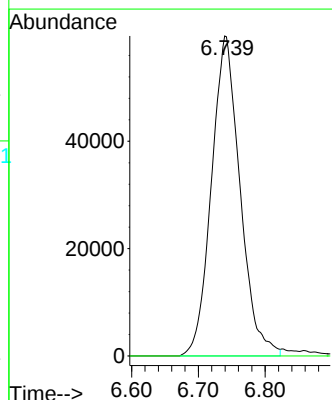
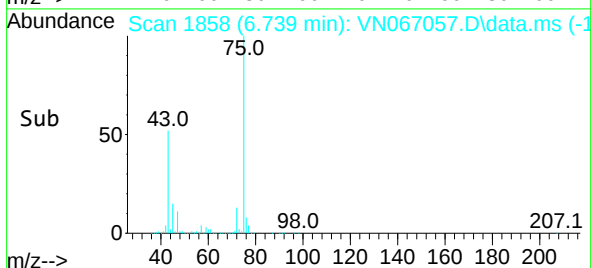
Tgt Ion: 43 Resp: 2401147
Ion Ratio Lower Upper
43 100
57 8.4 6.5 9.7
72 24.4 21.2 31.8

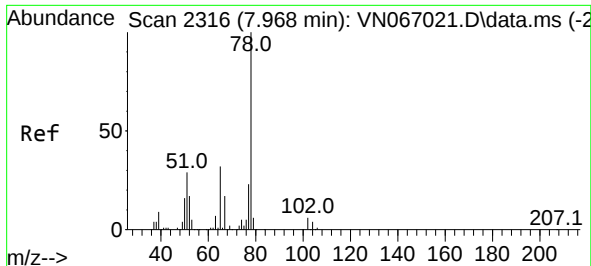


#31
2,2-Dichloropropane
Concen: 21.58 ug/l
RT: 6.739 min Scan# 1858
Delta R.T. 0.003 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46



Tgt Ion: 77 Resp: 177630
Ion Ratio Lower Upper
77 100
97 0.0 17.4 26.2#

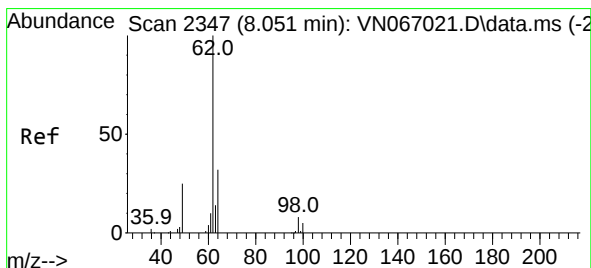
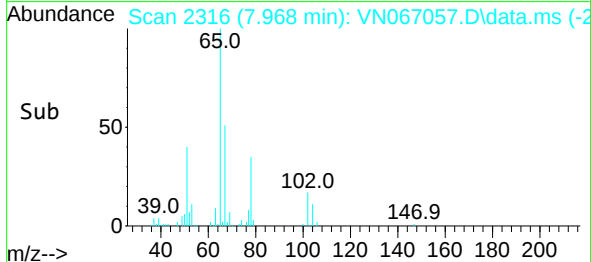
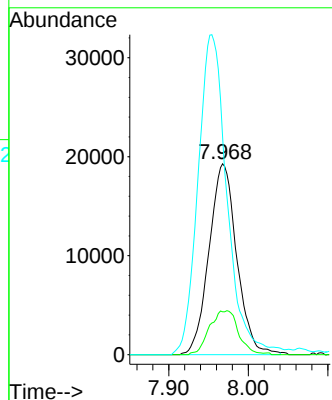
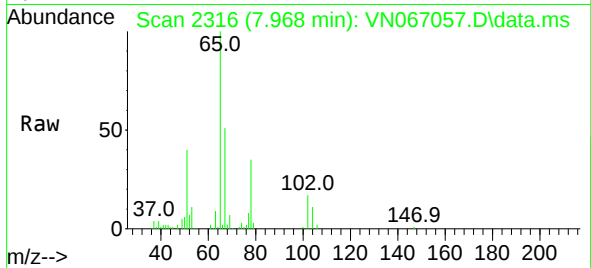




#34
Benzene
Concen: 2.11 ug/l
RT: 7.968 min Scan# 2316
Delta R.T. 0.000 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

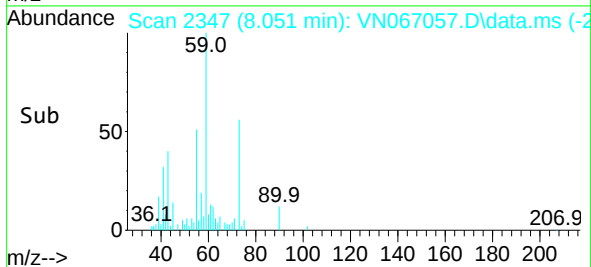
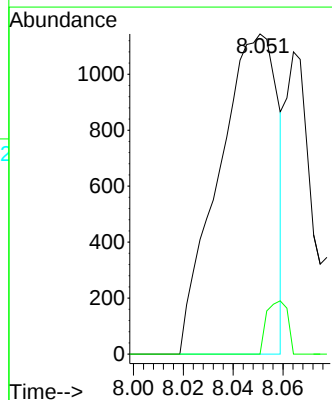
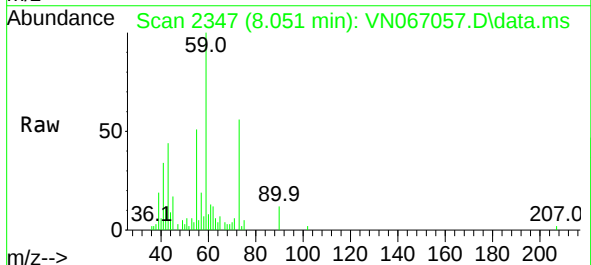
Instrument :
MSVOA_N
ClientSampleId :

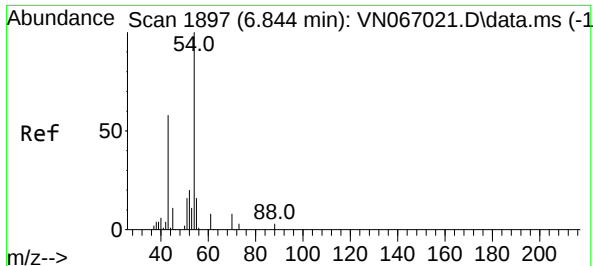
Tgt Ion: 78 Resp: 46741
Ion Ratio Lower Upper
78 100
77 22.5 18.6 27.8
51 110.6 23.4 35.0#



#36
1,2-Dichloroethane
Concen: 0.23 ug/l
RT: 8.051 min Scan# 2347
Delta R.T. 0.000 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

Tgt Ion: 62 Resp: 1876
Ion Ratio Lower Upper
62 100
98 0.0 6.5 9.7#





#43

Ethyl Acetate

Concen: 311.68 ug/l

RT: 6.745 min Scan# 1860

Delta R.T. -0.099 min

Lab File: VN067057.D

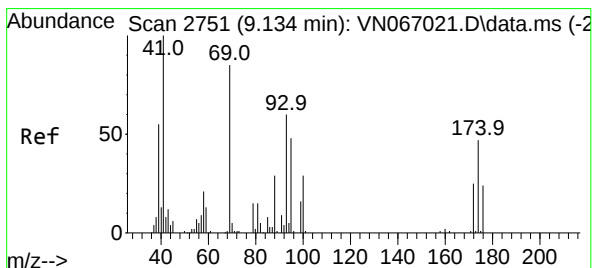
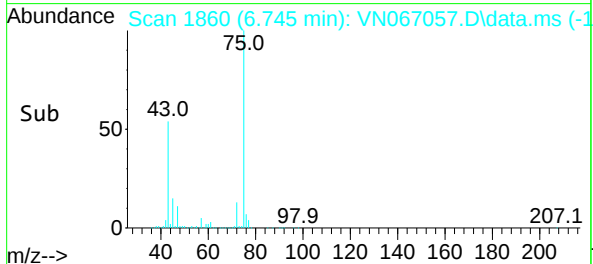
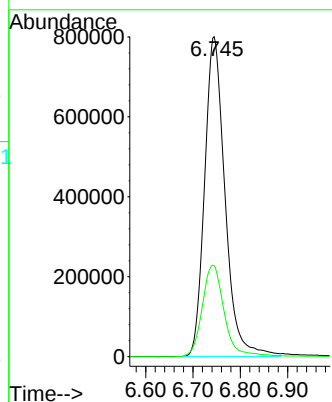
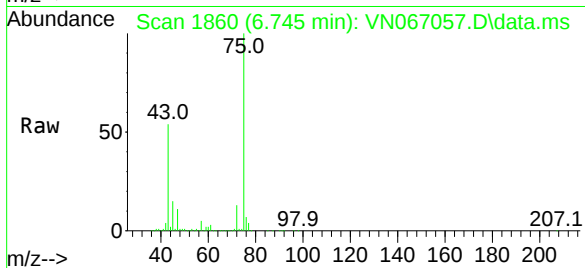
Acq: 7 May 2021 17:46

Tgt Ion: 43 Resp: 2401147

Ion Ratio Lower Upper

43 100

45 30.8 9.9 14.9#



#45

1,4-Dioxane

Concen: 57.14 ug/l

RT: 9.134 min Scan# 2751

Delta R.T. 0.000 min

Lab File: VN067057.D

Acq: 7 May 2021 17:46

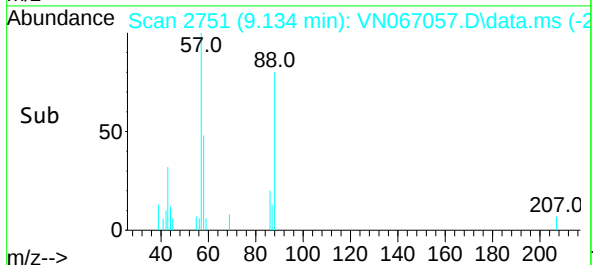
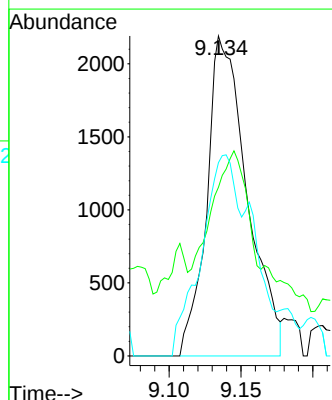
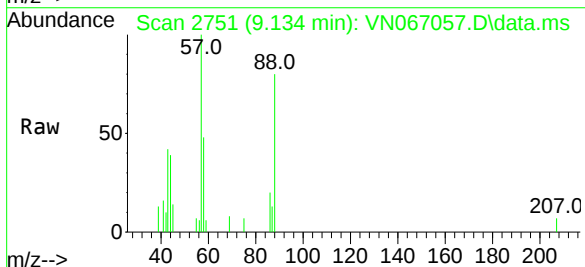
Tgt Ion: 88 Resp: 4272

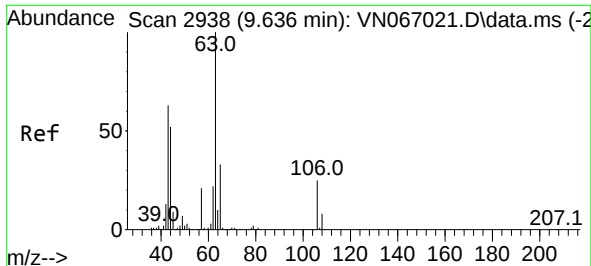
Ion Ratio Lower Upper

88 100

43 33.4 28.0 42.0

58 57.3 62.8 94.2#

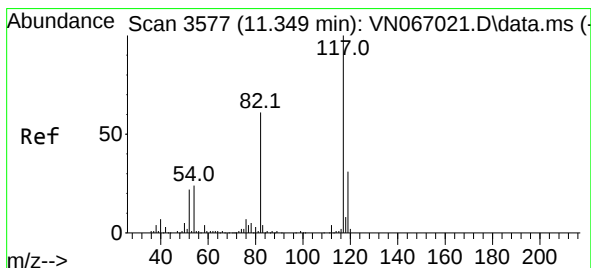
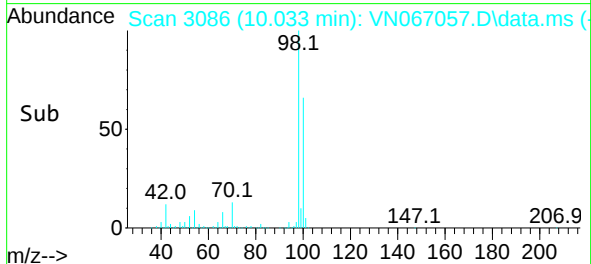
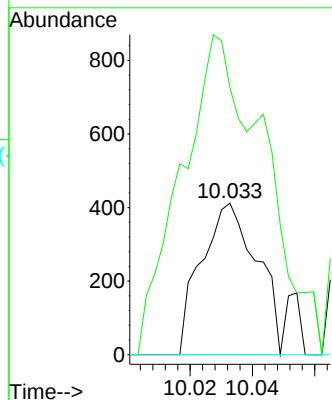
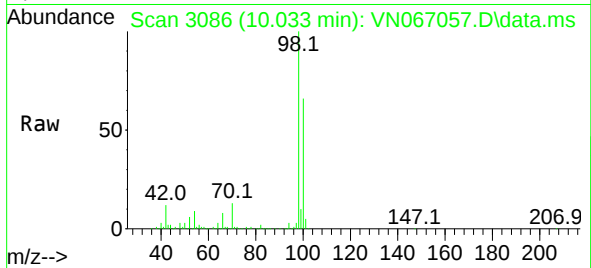




#55
2-Chloroethyl vinyl ether
Concen: 0.39 ug/l
RT: 10.033 min Scan# 3086
Delta R.T. 0.397 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

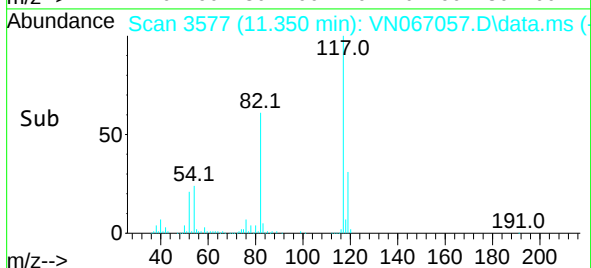
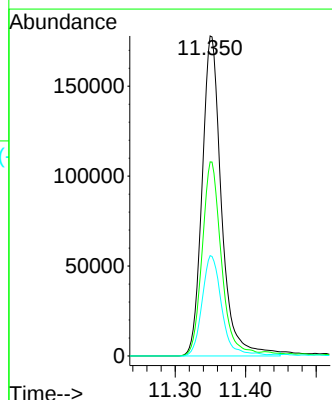
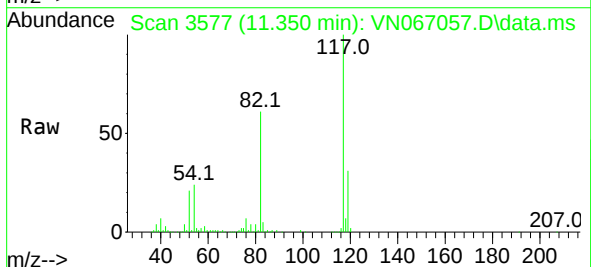
Instrument :
MSVOA_N
ClientSampled :

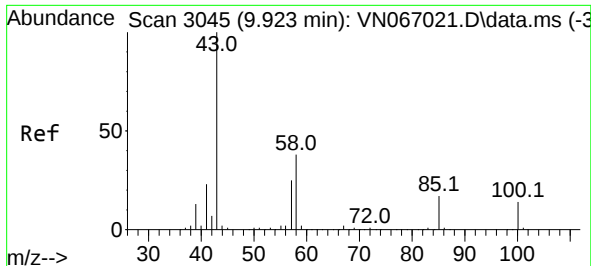
Tgt Ion: 63 Resp: 513
Ion Ratio Lower Upper
63 100
65 225.5 25.4 38.2#
106 0.0 18.9 28.3#



#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.350 min Scan# 3577
Delta R.T. 0.001 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

Tgt Ion: 117 Resp: 340194
Ion Ratio Lower Upper
117 100
82 60.4 49.3 73.9
119 31.3 25.5 38.3

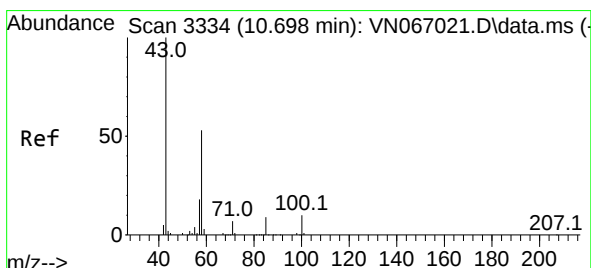
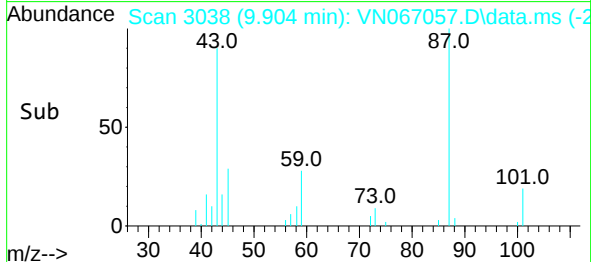
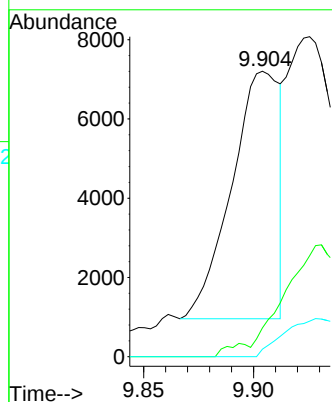
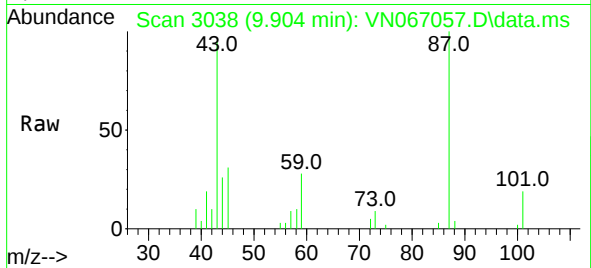




#58
4-Methyl-2-Pentanone
Concen: 1.49 ug/l
RT: 9.904 min Scan# 3038
Delta R.T. -0.019 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

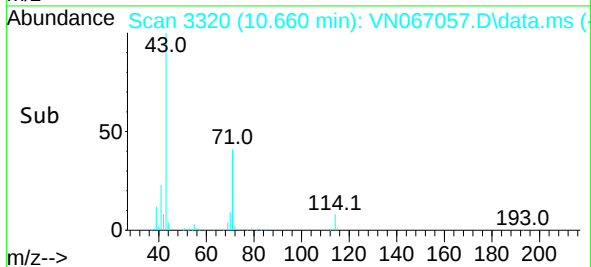
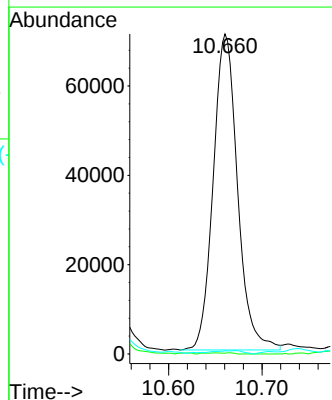
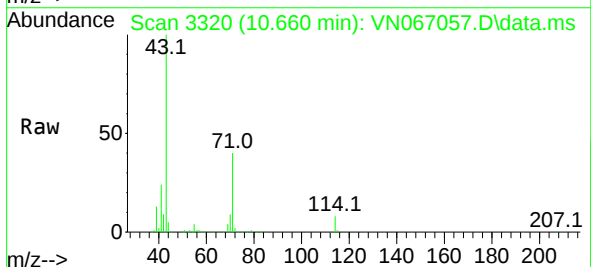
Instrument :
MSVOA_N
ClientSampled :

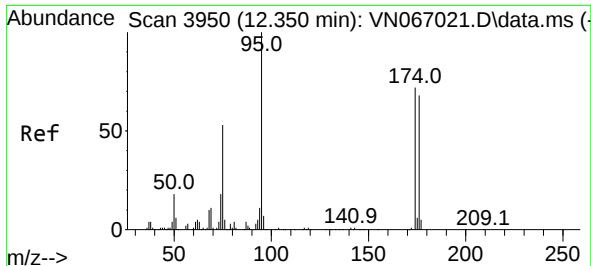
Tgt Ion: 43 Resp: 9492
Ion Ratio Lower Upper
43 100
58 1.1 30.4 45.6#
85 0.0 13.4 20.0#



#59
2-Hexanone
Concen: 34.13 ug/l
RT: 10.660 min Scan# 3320
Delta R.T. -0.037 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

Tgt Ion: 43 Resp: 128209
Ion Ratio Lower Upper
43 100
58 0.1 42.7 64.1#
57 0.3 14.7 22.1#

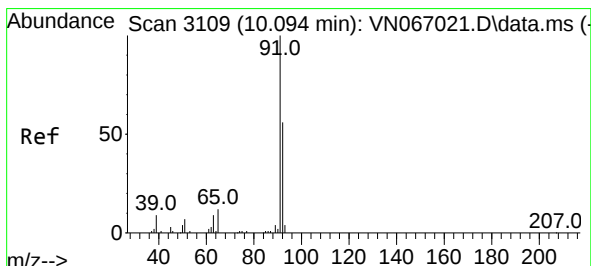
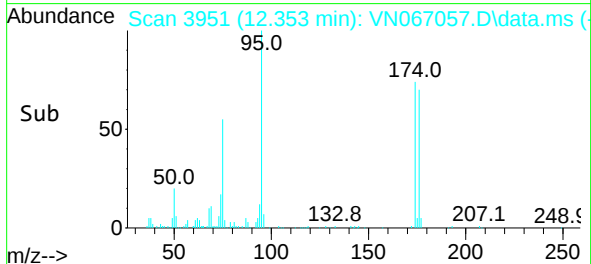
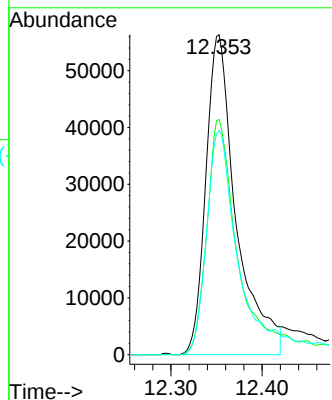
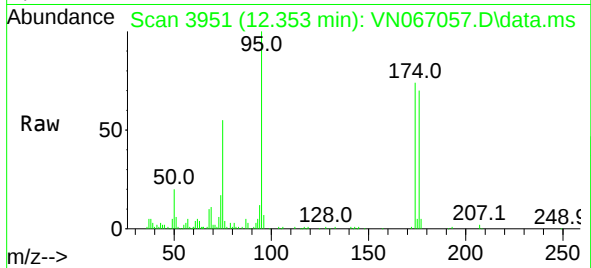




#60
4-Bromofluorobenzene
Concen: 22.96 ug/l
RT: 12.353 min Scan# 3951
Delta R.T. 0.003 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

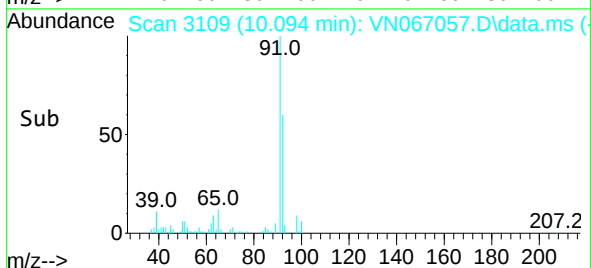
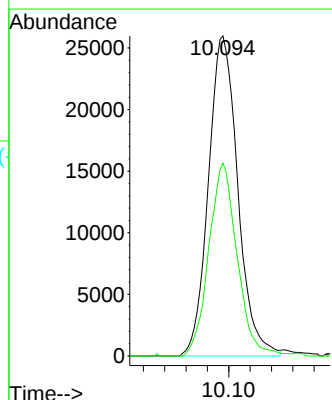
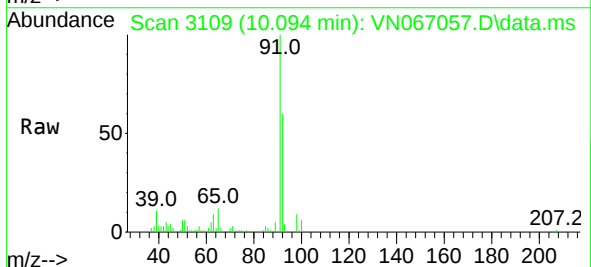
Instrument :
MSVOA_N
ClientSampleId :

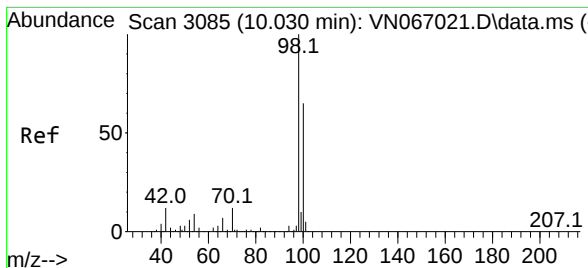
Tgt Ion: 95 Resp: 129968
Ion Ratio Lower Upper
95 100
174 73.1 57.2 85.8
176 68.9 54.5 81.7



#62
Toluene
Concen: 2.37 ug/l
RT: 10.094 min Scan# 3109
Delta R.T. 0.000 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

Tgt Ion: 91 Resp: 49644
Ion Ratio Lower Upper
91 100
92 58.0 46.2 69.2

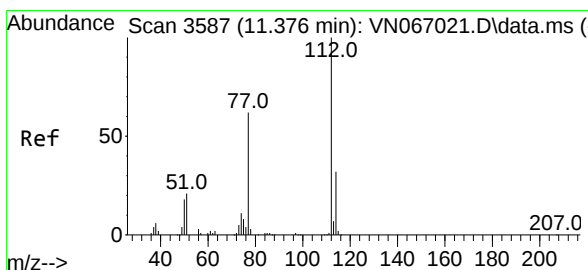
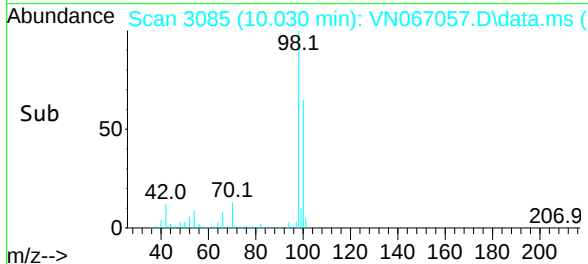
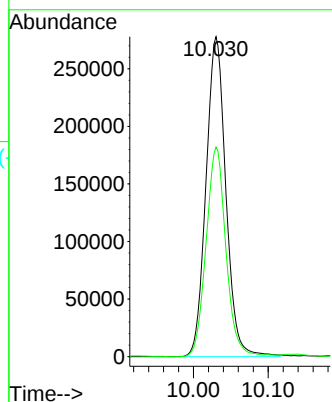
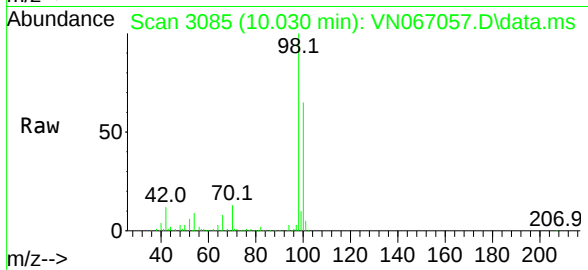




#63
Toluene-d8
Concen: 30.51 ug/l
RT: 10.030 min Scan# 3085
Delta R.T. 0.000 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

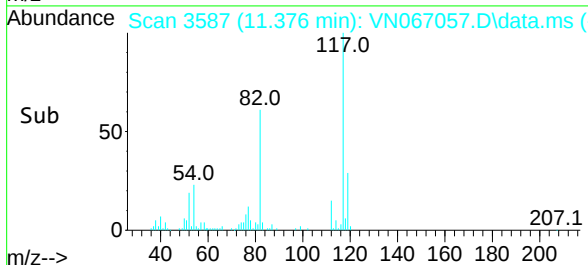
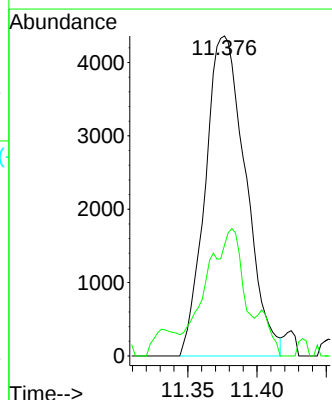
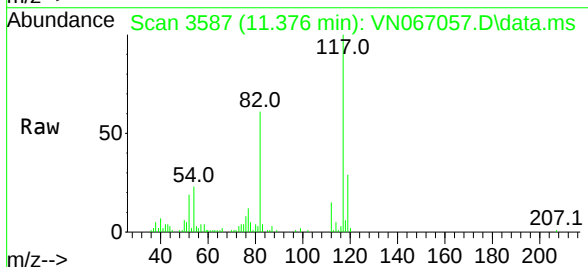
Instrument :
MSVOA_N
ClientSampled :

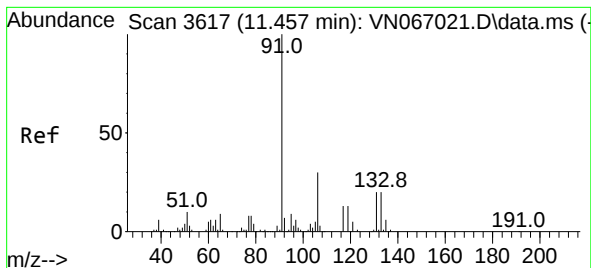
Tgt Ion: 98 Resp: 514109
Ion Ratio Lower Upper
98 100
100 65.1 51.1 76.7



#64
Chlorobenzene
Concen: 0.72 ug/l
RT: 11.376 min Scan# 3587
Delta R.T. 0.000 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

Tgt Ion: 112 Resp: 8831
Ion Ratio Lower Upper
112 100
114 34.7 25.2 37.8

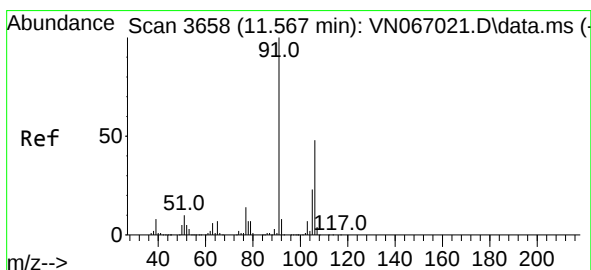
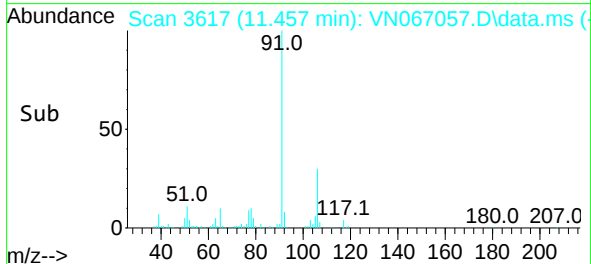
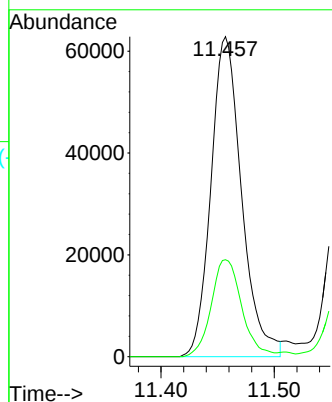
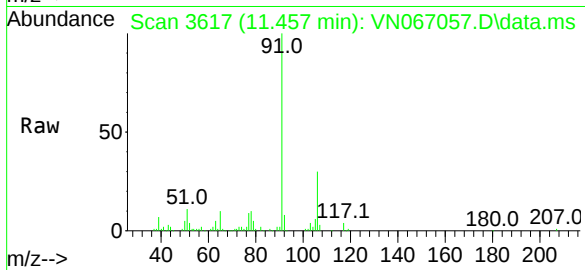




#66
Ethyl Benzene
Concen: 5.54 ug/l
RT: 11.457 min Scan# 3617
Delta R.T. 0.000 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

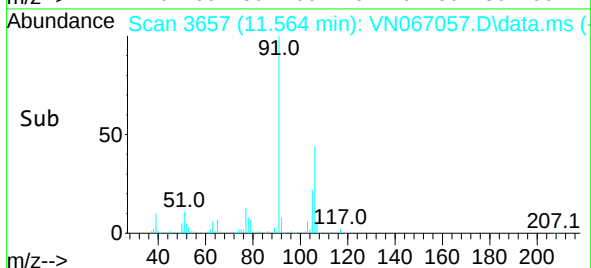
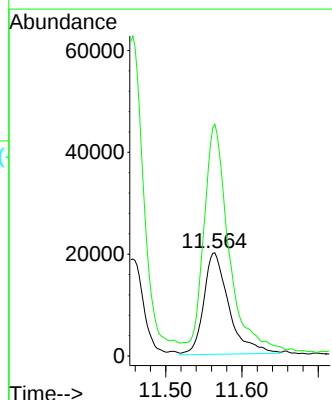
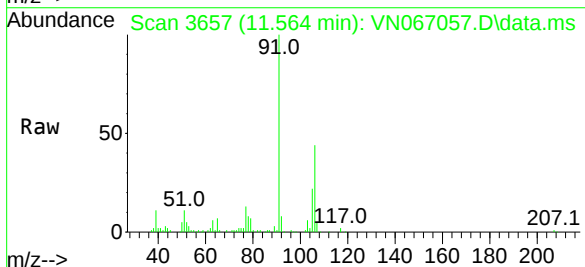
Instrument :
MSVOA_N
ClientSampled :

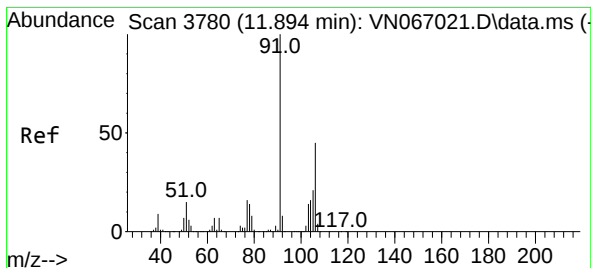
Tgt Ion: 91 Resp: 118050
Ion Ratio Lower Upper
91 100
106 30.3 24.1 36.1



#67
m/p-Xylenes
Concen: 5.71 ug/l
RT: 11.564 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

Tgt Ion:106 Resp: 45661
Ion Ratio Lower Upper
106 100
91 190.6 173.2 259.8





#68

o-Xylene

Concen: 3.28 ug/l

RT: 11.894 min Scan# 3780

Delta R.T. 0.000 min

Lab File: VN067057.D

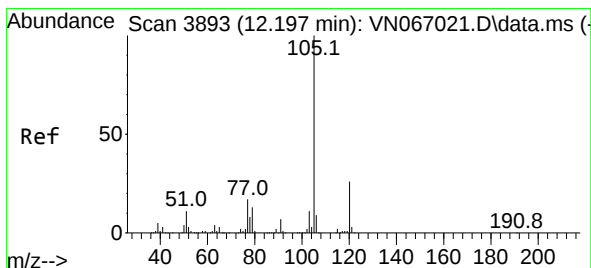
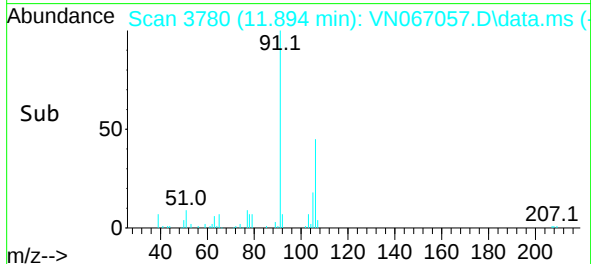
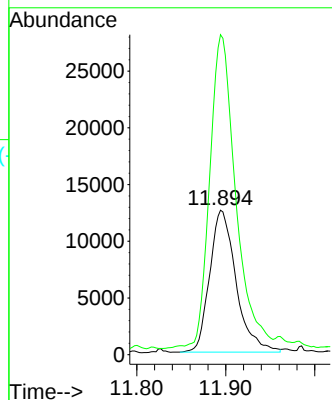
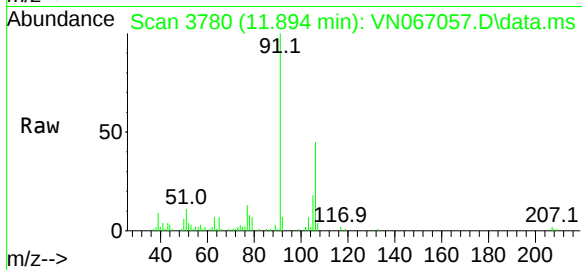
Acq: 7 May 2021 17:46

Tgt Ion:106 Resp: 25868

Ion Ratio Lower Upper

106 100

91 211.3 113.3 339.9



#70

Isopropylbenzene

Concen: 0.28 ug/l

RT: 12.605 min Scan# 4045

Delta R.T. 0.408 min

Lab File: VN067057.D

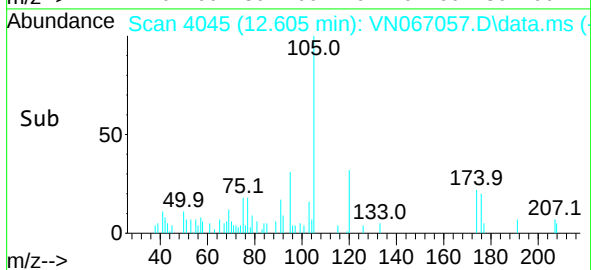
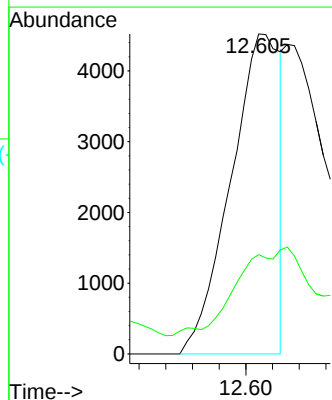
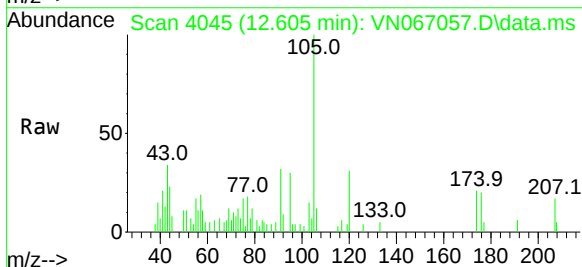
Acq: 7 May 2021 17:46

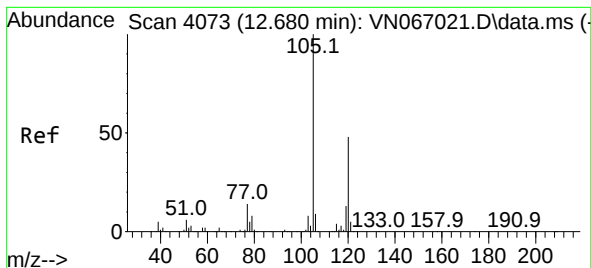
Tgt Ion:105 Resp: 5780

Ion Ratio Lower Upper

105 100

120 18.3 18.2 33.8

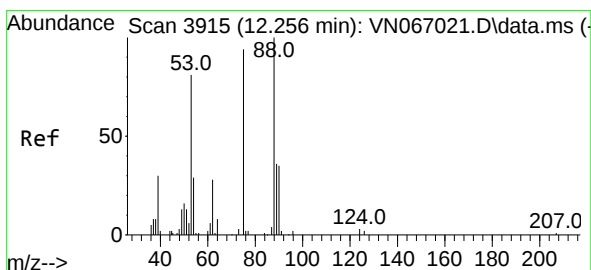
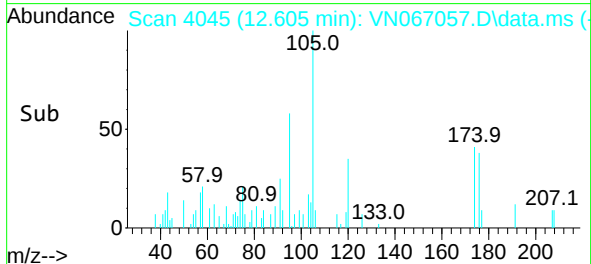
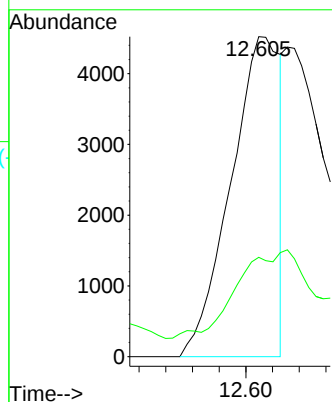
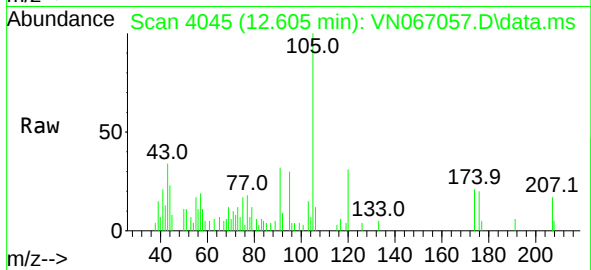




#76
1,3,5-Trimethylbenzene
Concen: 0.32 ug/l
RT: 12.605 min Scan# 4045
Delta R.T. -0.075 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

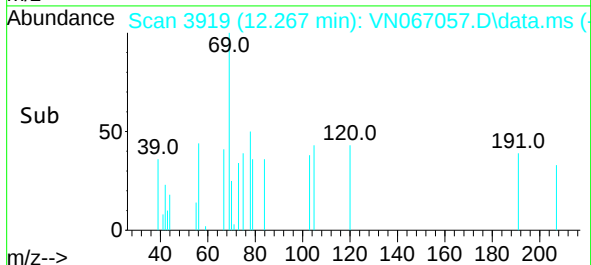
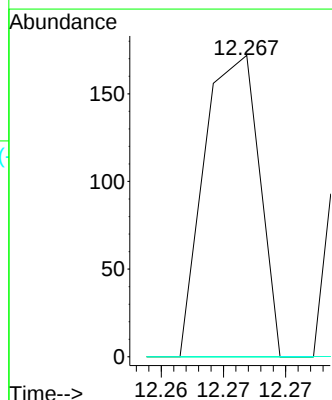
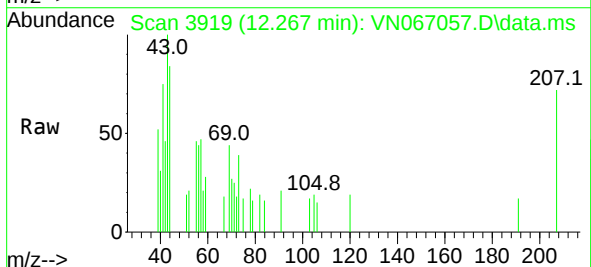
Instrument :
MSVOA_N
ClientSampled :

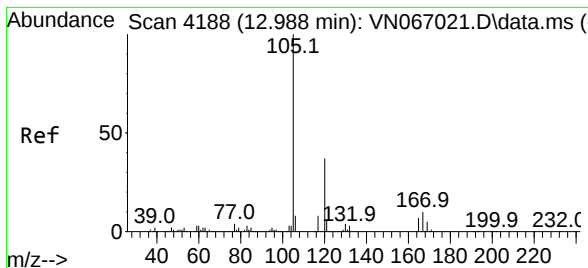
Tgt Ion:105 Resp: 5780
Ion Ratio Lower Upper
105 100
120 18.3 0.0 93.4



#77
t-1,4-Dichloro-2-butene
Concen: 7.39 ug/l
RT: 12.267 min Scan# 3919
Delta R.T. 0.011 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

Tgt Ion: 75 Resp: 53
Ion Ratio Lower Upper
75 100
53 0.0 43.1 129.4#
89 0.0 18.8 56.4#

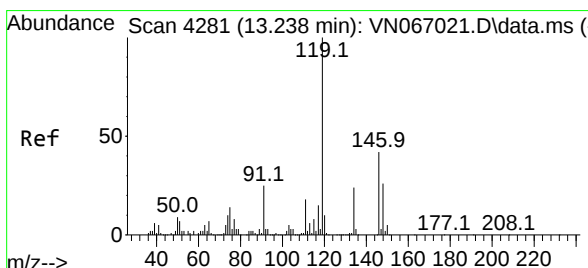
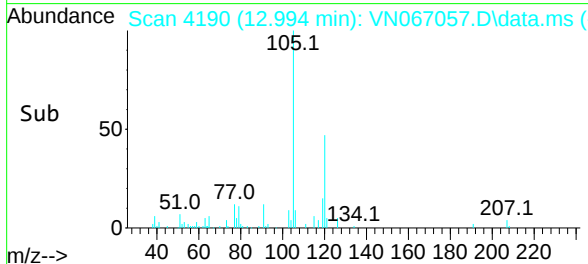
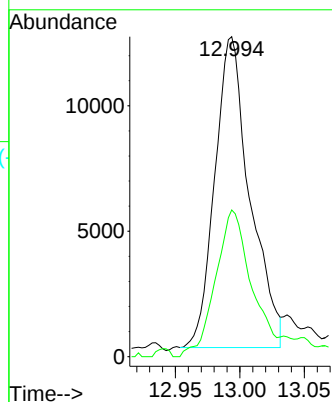
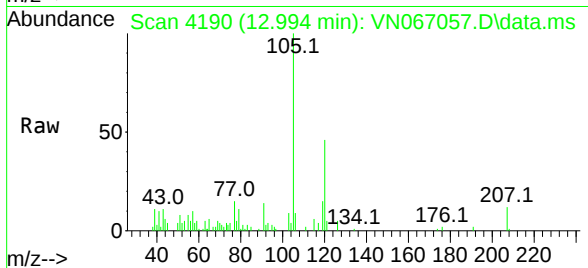




#80
1,2,4-Trimethylbenzene
Concen: 1.38 ug/l
RT: 12.994 min Scan# 4190
Delta R.T. 0.006 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

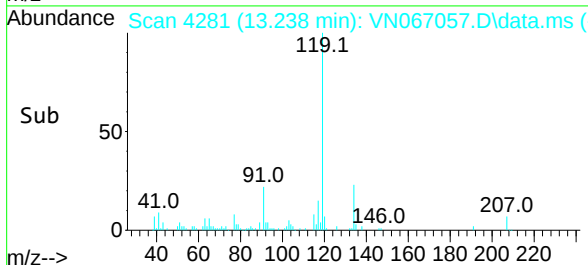
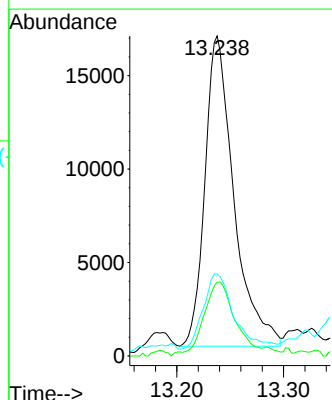
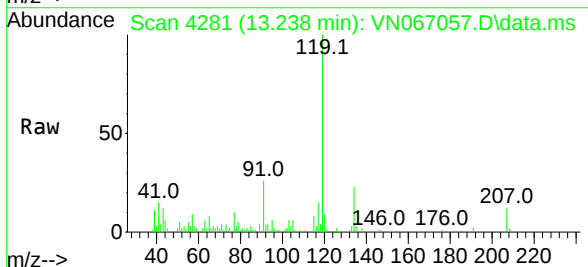
Instrument :
MSVOA_N
ClientSampled :

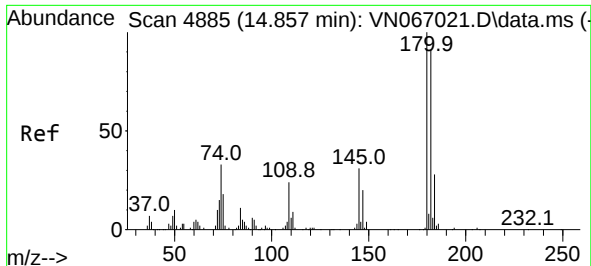
Tgt Ion:105 Resp: 23476
Ion Ratio Lower Upper
105 100
120 48.1 0.0 88.8



#82
p-Isopropyltoluene
Concen: 1.94 ug/l
RT: 13.238 min Scan# 4281
Delta R.T. 0.000 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

Tgt Ion:119 Resp: 31229
Ion Ratio Lower Upper
119 100
134 23.2 0.0 49.8
91 24.2 0.0 49.6

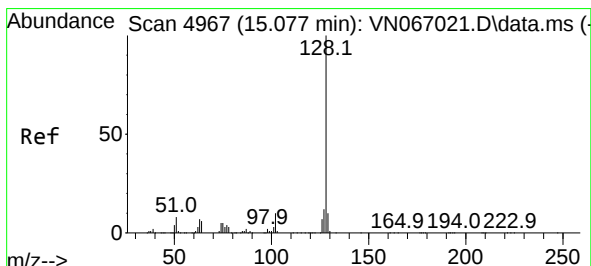
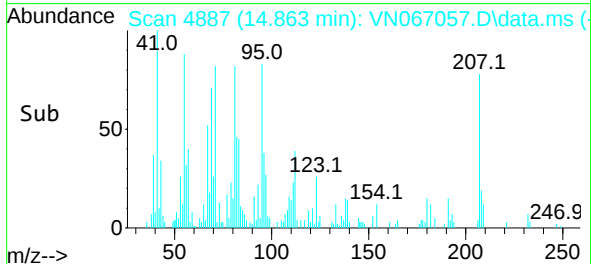
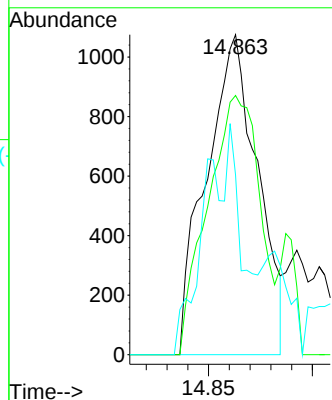
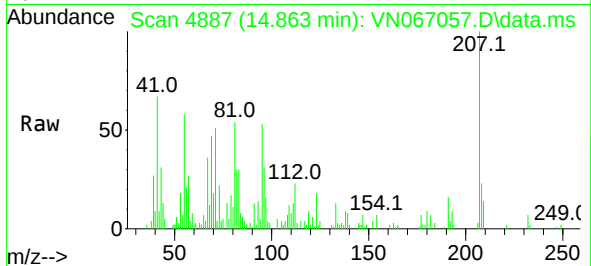




#89
1,2,4-Trichlorobenzene
Concen: 0.43 ug/l
RT: 14.863 min Scan# 4887
Delta R.T. 0.006 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

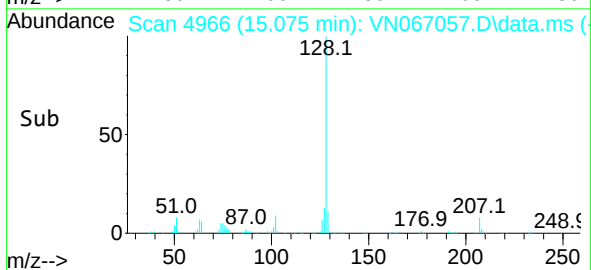
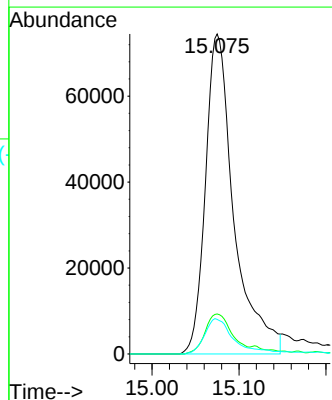
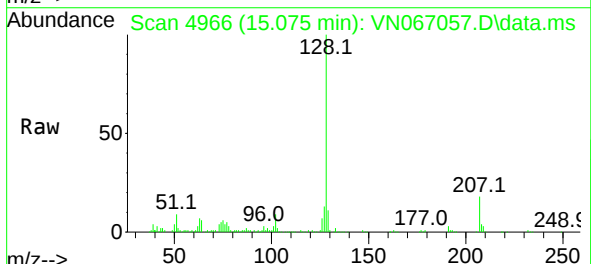
Instrument :
MSVOA_N
ClientSampled :

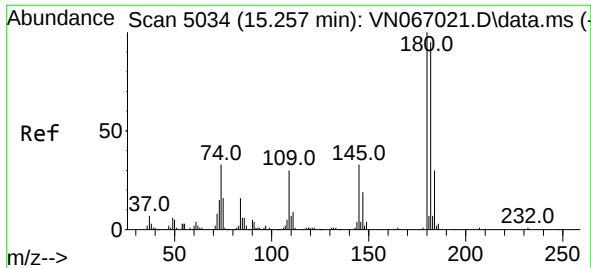
Tgt Ion:180 Resp: 1843
Ion Ratio Lower Upper
180 100
182 82.5 78.6 117.8
145 13.3 25.0 37.4#



#91
Naphthalene
Concen: 14.41 ug/l
RT: 15.075 min Scan# 4966
Delta R.T. -0.003 min
Lab File: VN067057.D
Acq: 7 May 2021 17:46

Tgt Ion:128 Resp: 169577
Ion Ratio Lower Upper
128 100
127 11.8 9.8 14.6
129 11.2 7.8 11.8





#92
 1,2,3-Trichlorobenzene
 Concen: 0.41 ug/l
 RT: 14.863 min Scan# 4887
 Delta R.T. -0.394 min
 Lab File: VN067057.D
 Acq: 7 May 2021 17:46

Instrument :
 MSVOA_N
 ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
180	100		
182	82.5	0.0	184.4
145	13.3	0.0	67.6

