

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100821\
 Data File : VN068852.D
 Acq On : 8 Oct 2021 16:54
 Operator : JC/MD
 Sample : M4104-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 55TH-ST-33

Quant Time: Oct 11 04:53:43 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092821W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 29 08:56:32 2021
 Response via : Initial Calibration

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

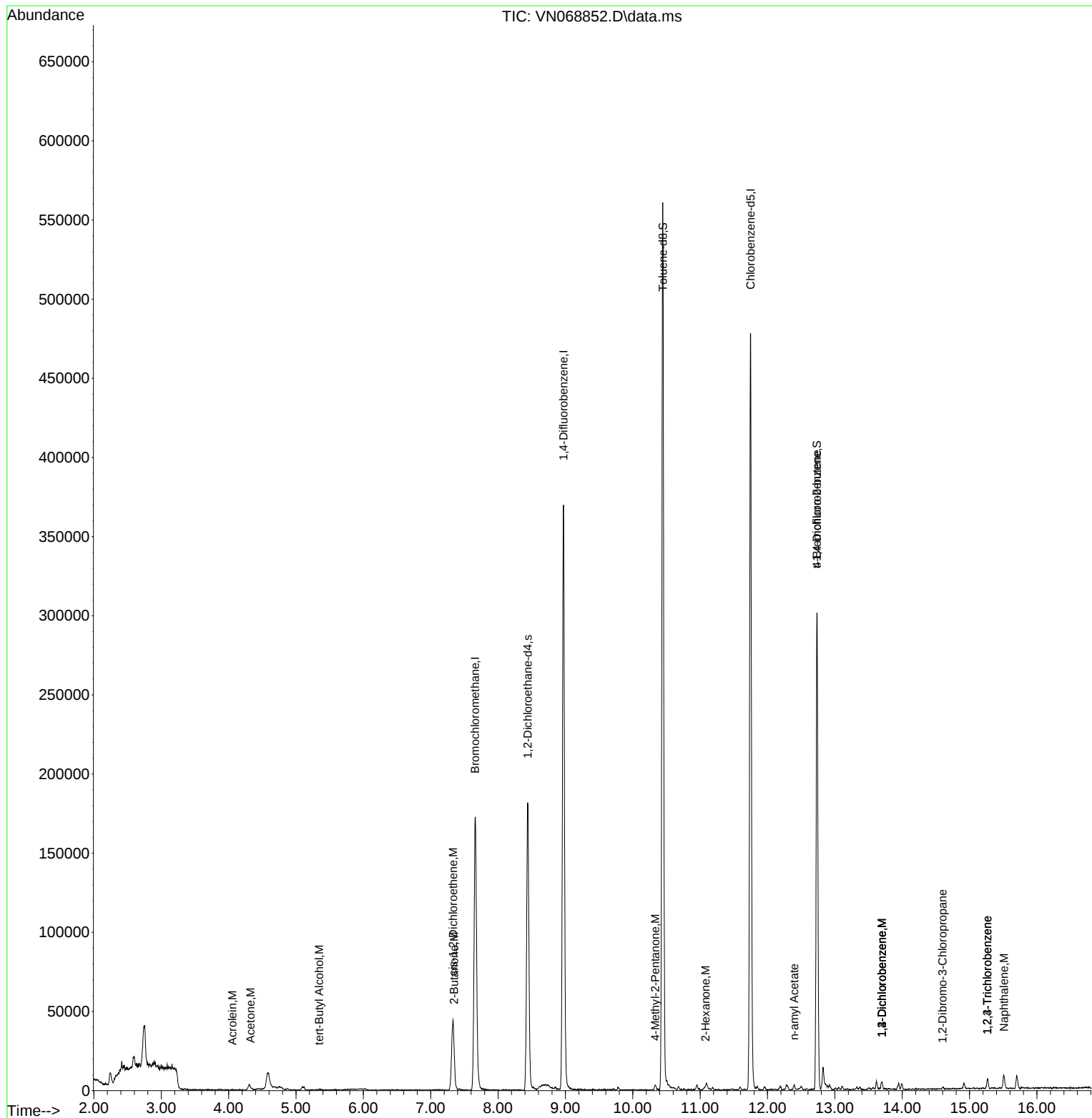
Internal Standards						
1) Bromochloromethane	7.659	128	60767	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	316371	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.749	117	272009	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	151713	32.390	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	107.967%
60) 4-Bromofluorobenzene	12.733	95	96506	22.711	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	75.700%
63) Toluene-d8	10.446	98	389615	31.689	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	105.633%
Target Compounds						
					Qvalue	
13) Acrolein	4.057	56	242	1.114	ug/l #	14
15) Acetone	4.325	58	100	0.217	ug/l	82
22) cis-1,2-Dichloroethene	7.332	96	24652	5.720	ug/l	84
23) tert-Butyl Alcohol	5.345	59	170	0.276	ug/l #	100
30) 2-Butanone	7.348	43	2046	0.906	ug/l #	67
47) n-amyl Acetate	12.396	43	2042	0.295	ug/l #	66
58) 4-Methyl-2-Pentanone	10.336	43	2029	0.442	ug/l #	88
59) 2-Hexanone	11.079	43	694	0.208	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.733	75	55857	33.962	ug/l #	8
83) 1,3-Dichlorobenzene	13.699	146	1794	0.231	ug/l	80
84) 1,4-Dichlorobenzene	13.699	146	1794	0.243	ug/l	79
87) 1,2-Dichlorobenzene	13.699	146	1794	0.250	ug/l	80
88) 1,2-Dibromo-3-Chloropr...	14.600	75	196	0.211	ug/l #	52
89) 1,2,4-Trichlorobenzene	15.265	180	2429	0.689	ug/l #	45
91) Naphthalene	15.512	128	8405	0.845	ug/l #	93
92) 1,2,3-Trichlorobenzene	15.265	180	2429	0.719	ug/l	46

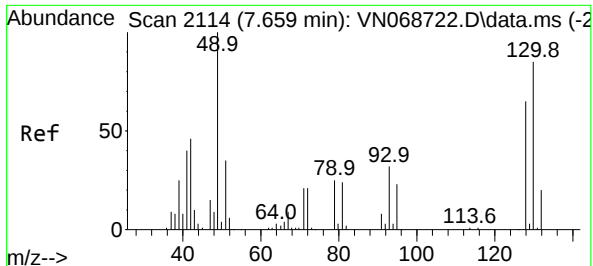
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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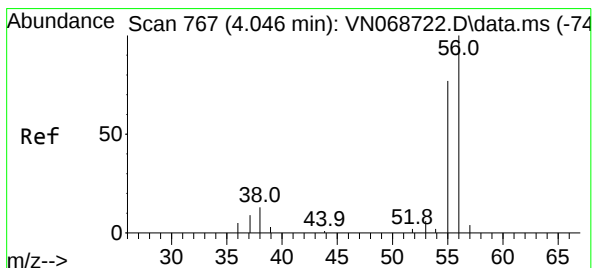
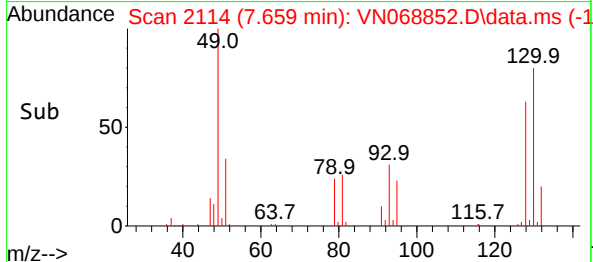
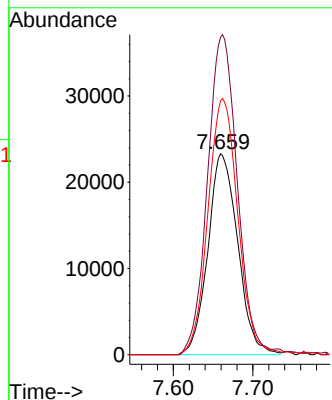
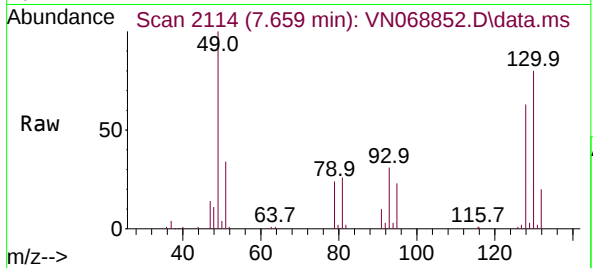




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.659 min Scan# 2114
Delta R.T. 0.000 min
Lab File: VN068852.D
Acq: 8 Oct 2021 16:54

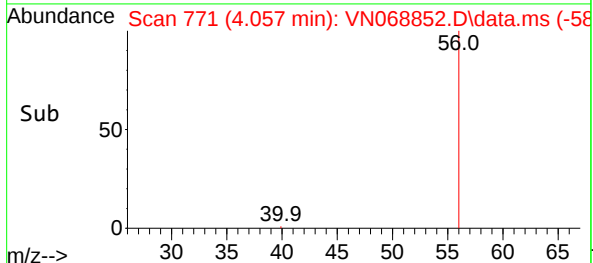
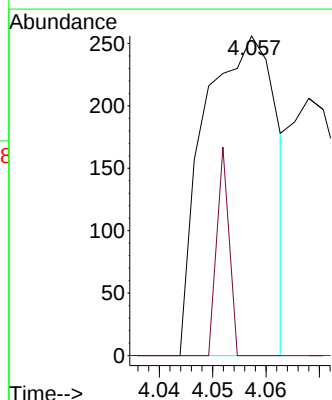
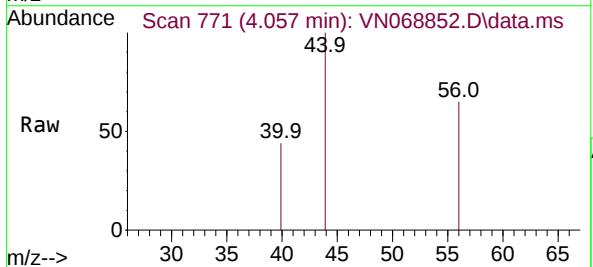
Instrument :
MSVOA_N
ClientSampled :
55TH-ST-33

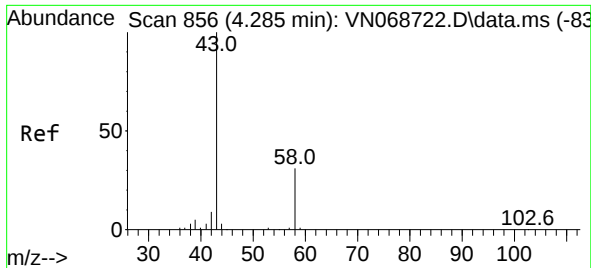
Tgt Ion:128 Resp: 60767
Ion Ratio Lower Upper
128 100
49 158.2 0.0 392.3
130 128.0 0.0 320.2



#13
Acrolein
Concen: 1.114 ug/l
RT: 4.057 min Scan# 771
Delta R.T. 0.011 min
Lab File: VN068852.D
Acq: 8 Oct 2021 16:54

Tgt Ion: 56 Resp: 242
Ion Ratio Lower Upper
56 100
55 0.0 57.6 86.4#

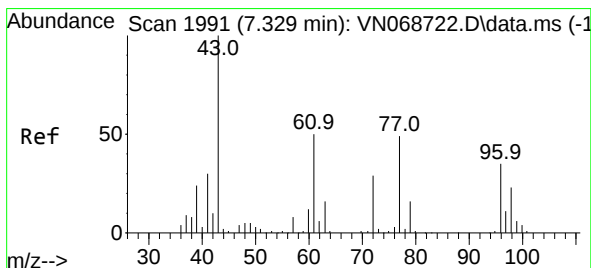
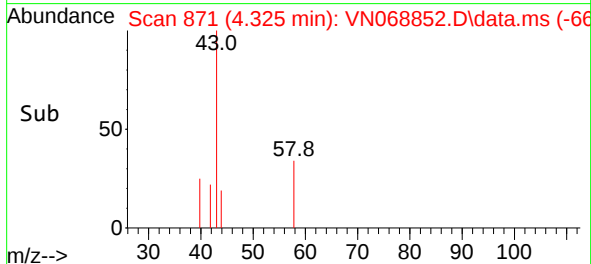
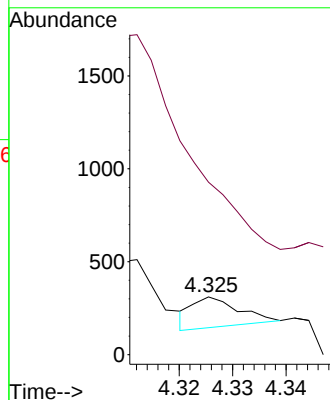
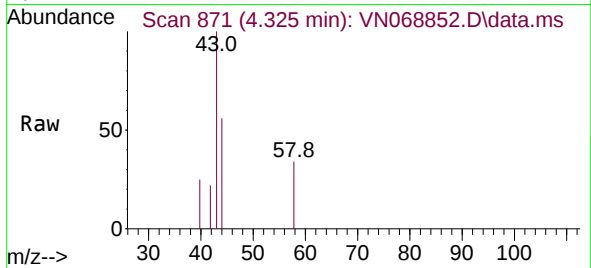




#15
Acetone
Concen: 0.217 ug/l
RT: 4.325 min Scan# 871
Delta R.T. 0.040 min
Lab File: VN068852.D
Acq: 8 Oct 2021 16:54

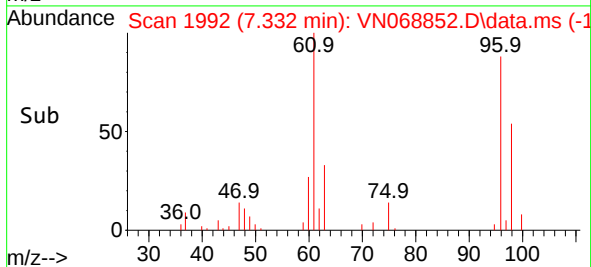
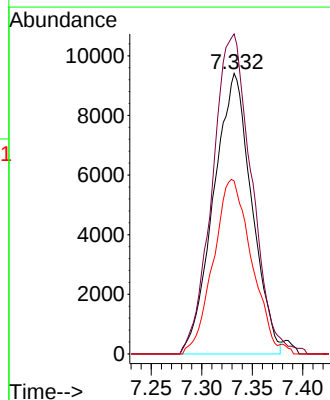
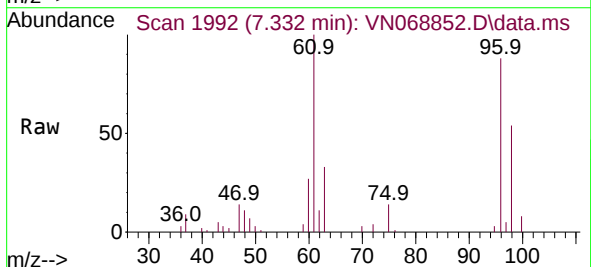
Instrument :
MSVOA_N
ClientSampled :
55TH-ST-33

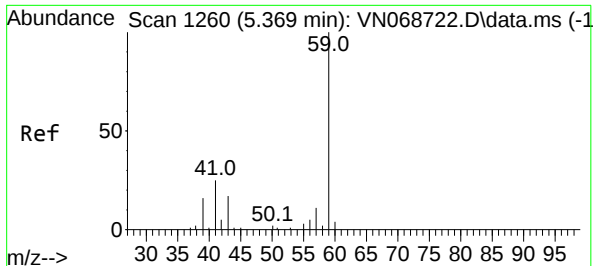
Tgt Ion: 58 Resp: 100
Ion Ratio Lower Upper
58 100
43 282.8 256.6 384.8



#22
cis-1,2-Dichloroethene
Concen: 5.720 ug/l
RT: 7.332 min Scan# 1992
Delta R.T. 0.003 min
Lab File: VN068852.D
Acq: 8 Oct 2021 16:54

Tgt Ion: 96 Resp: 24652
Ion Ratio Lower Upper
96 100
61 117.3 115.7 173.5
98 61.9 51.6 77.4



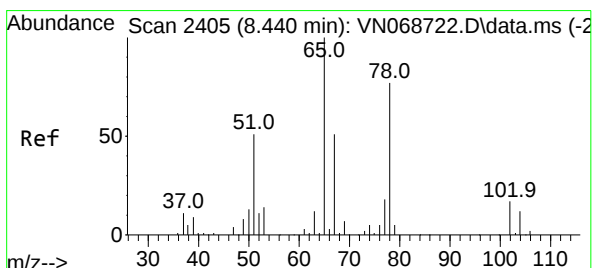
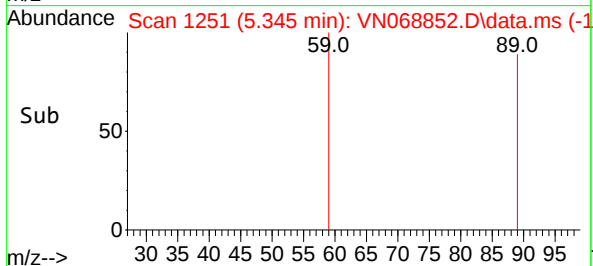
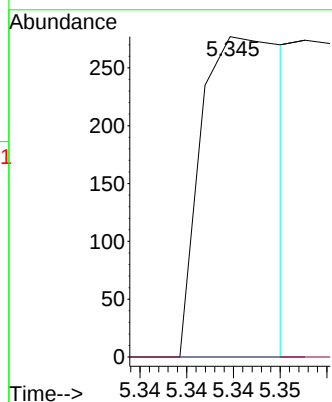
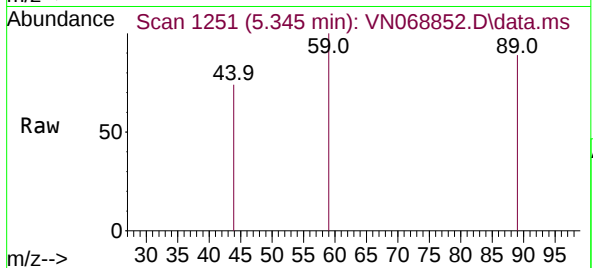


#23

tert-Butyl Alcohol
Concen: 0.276 ug/l
RT: 5.345 min Scan# 1251
Delta R.T. -0.024 min
Lab File: VN068852.D
Acq: 8 Oct 2021 16:54

Instrument :
MSVOA_N
ClientSampleId :
55TH-ST-33

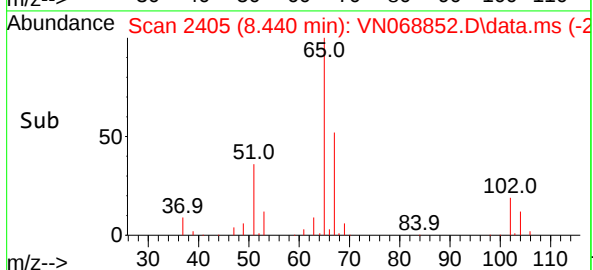
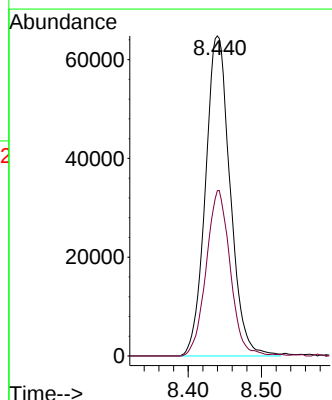
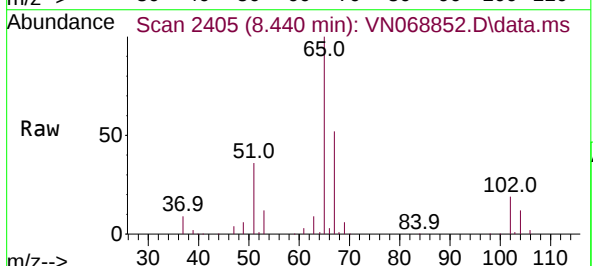
Tgt Ion: 59 Resp: 170
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

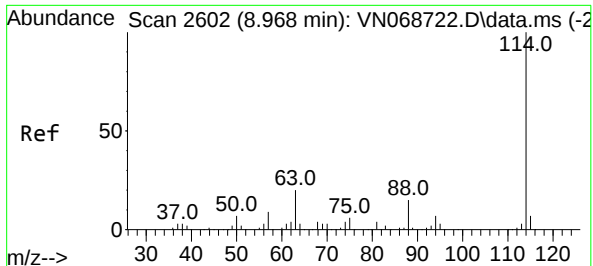


#27

1,2-Dichloroethane-d4
Concen: 32.390 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN068852.D
Acq: 8 Oct 2021 16:54

Tgt Ion: 65 Resp: 151713
Ion Ratio Lower Upper
65 100
67 50.2 40.2 60.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.971 min Scan# 2603

Delta R.T. 0.003 min

Lab File: VN068852.D

Acq: 8 Oct 2021 16:54

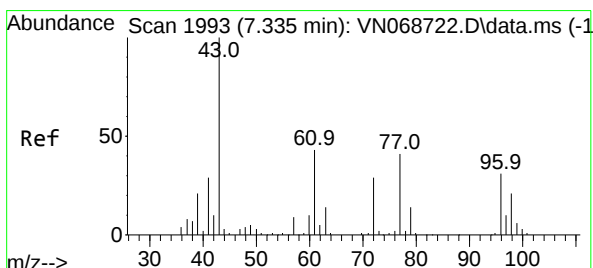
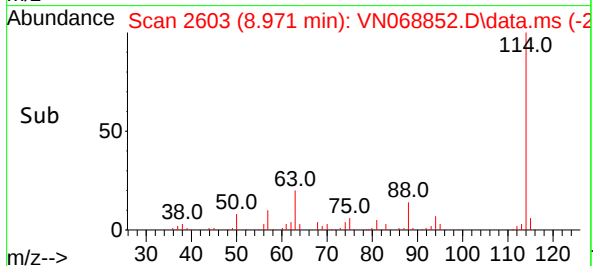
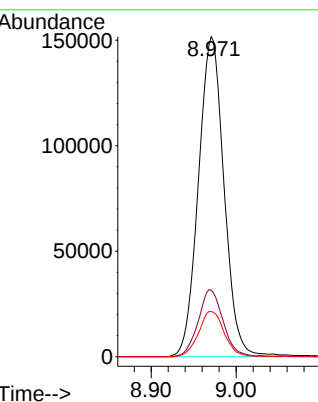
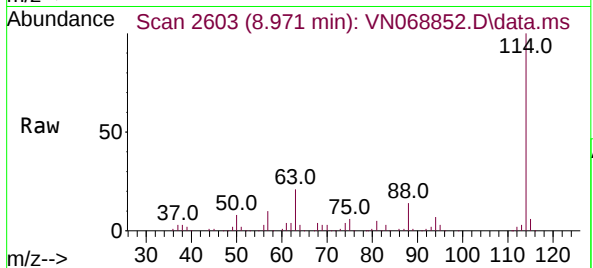
Tgt Ion: 114 Resp: 316371

Ion Ratio Lower Upper

114 100

63 20.4 15.8 23.6

88 14.1 11.6 17.4



#30

2-Butanone

Concen: 0.906 ug/l

RT: 7.348 min Scan# 1998

Delta R.T. 0.013 min

Lab File: VN068852.D

Acq: 8 Oct 2021 16:54

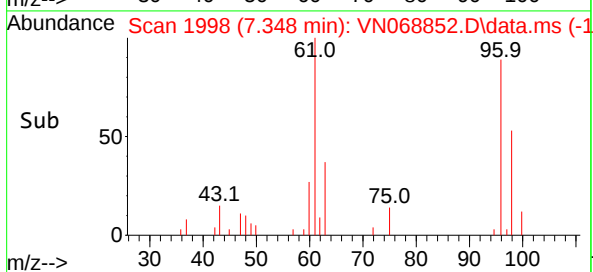
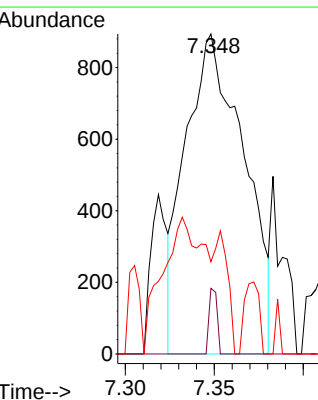
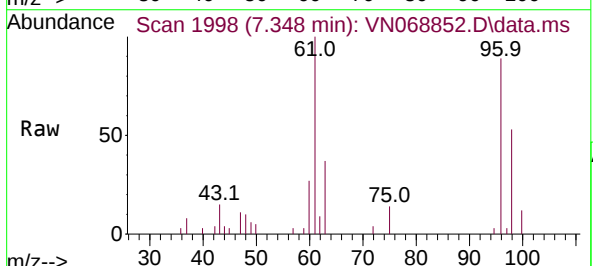
Tgt Ion: 43 Resp: 2046

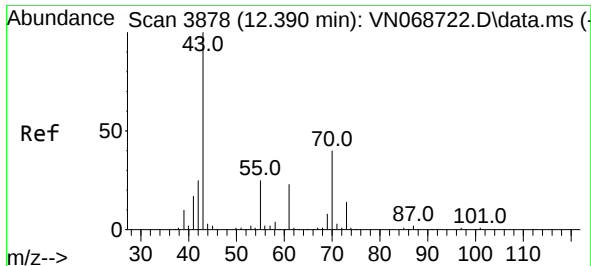
Ion Ratio Lower Upper

43 100

57 2.8 6.7 10.1#

72 8.7 23.2 34.8#

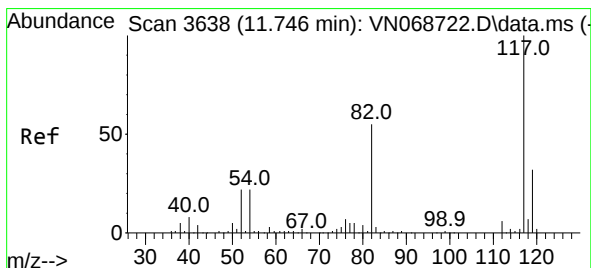
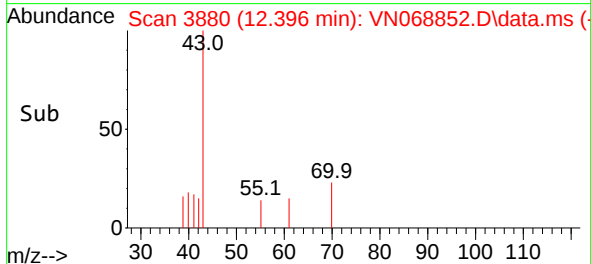
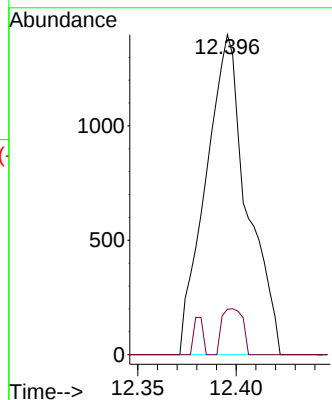
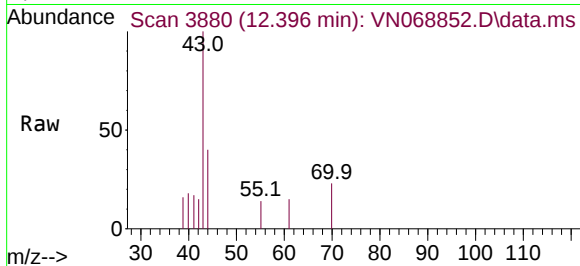




#47
n-amyl Acetate
Concen: 0.295 ug/l
RT: 12.396 min Scan# 3880
Delta R.T. 0.006 min
Lab File: VN068852.D
Acq: 8 Oct 2021 16:54

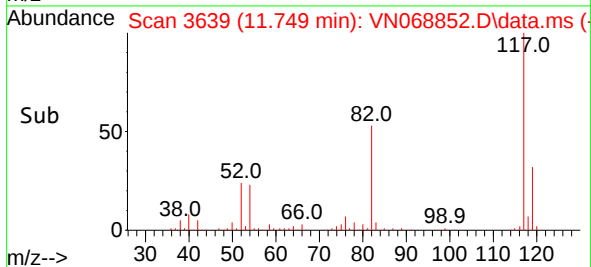
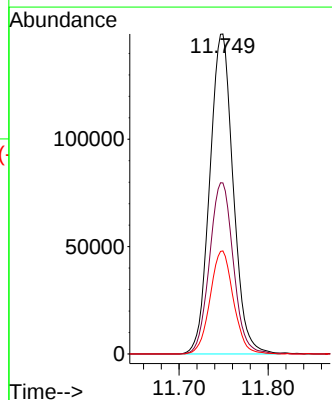
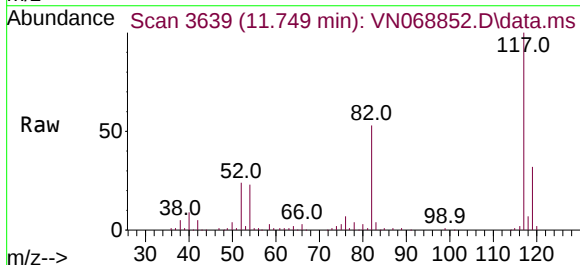
Instrument :
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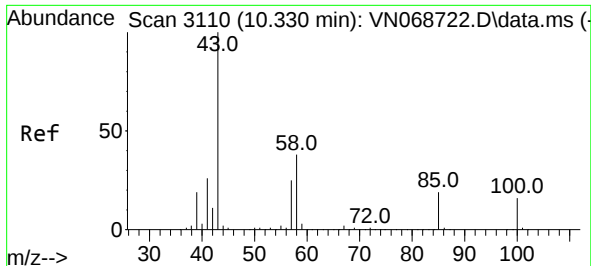
Tgt Ion: 43 Resp: 2042
Ion Ratio Lower Upper
43 100
55 7.2 19.0 28.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.749 min Scan# 3639
Delta R.T. 0.003 min
Lab File: VN068852.D
Acq: 8 Oct 2021 16:54

Tgt Ion: 117 Resp: 272009
Ion Ratio Lower Upper
117 100
82 54.6 43.6 65.4
119 32.0 25.8 38.6

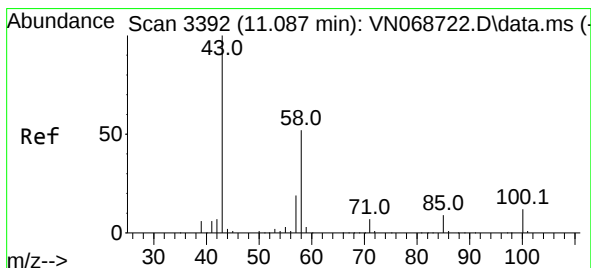
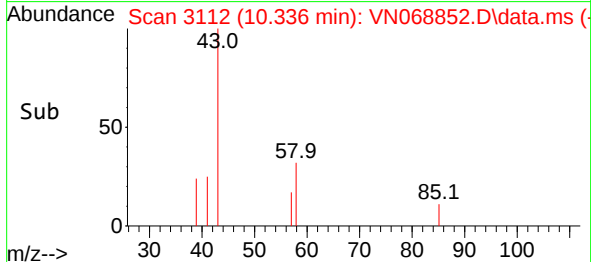
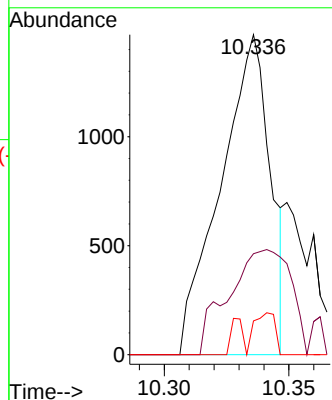
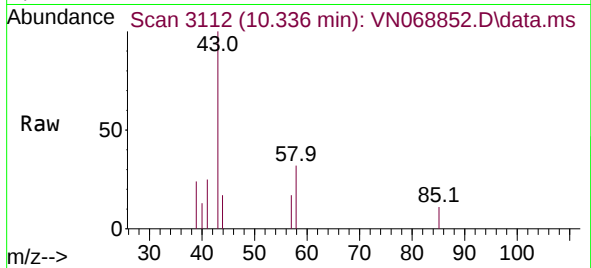




#58
4-Methyl-2-Pentanone
Concen: 0.442 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.006 min
Lab File: VN068852.D
Acq: 8 Oct 2021 16:54

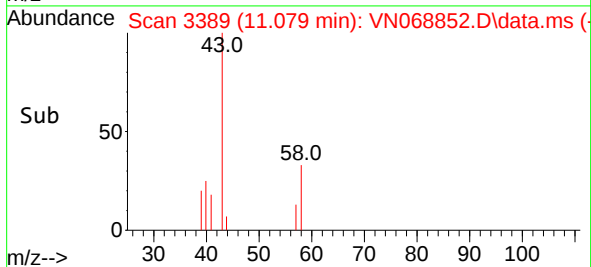
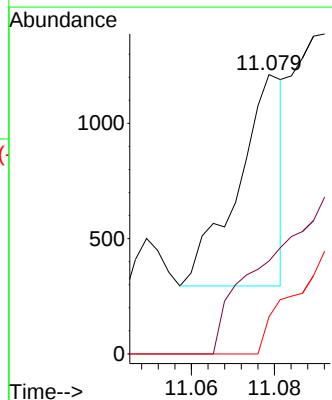
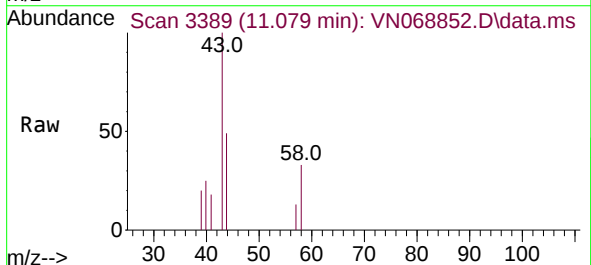
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55TH-ST-33

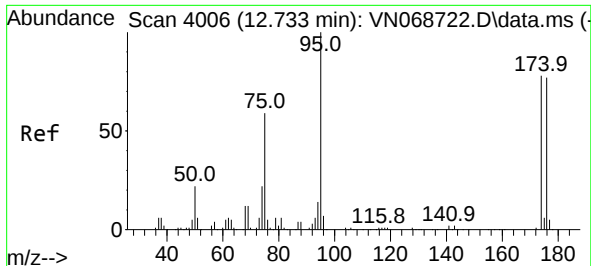
Tgt Ion: 43 Resp: 2029
Ion Ratio Lower Upper
43 100
58 36.0 30.0 45.0
85 5.5 15.0 22.6#



#59
2-Hexanone
Concen: 0.208 ug/l
RT: 11.079 min Scan# 3389
Delta R.T. -0.008 min
Lab File: VN068852.D
Acq: 8 Oct 2021 16:54

Tgt Ion: 43 Resp: 694
Ion Ratio Lower Upper
43 100
58 226.5 42.2 63.2#
57 89.6 15.0 22.4#

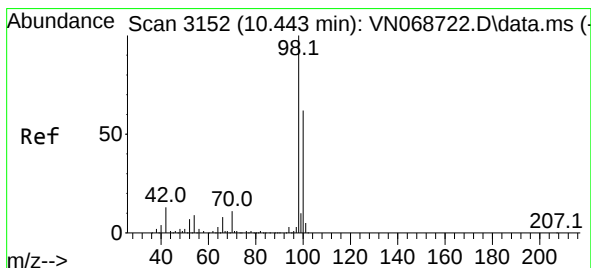
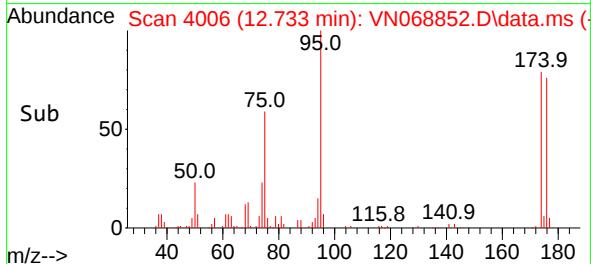
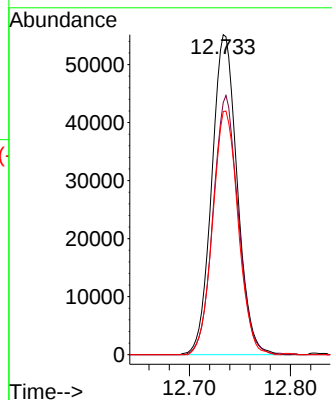
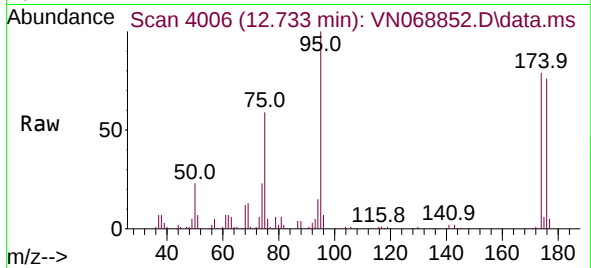




#60
4-Bromofluorobenzene
Concen: 22.711 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN068852.D
Acq: 8 Oct 2021 16:54

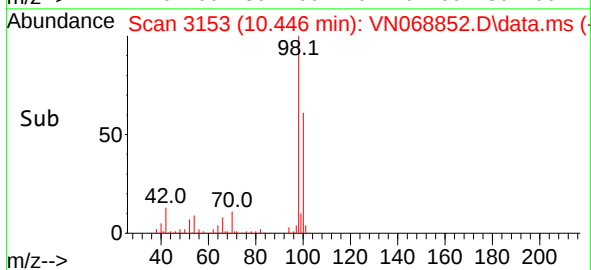
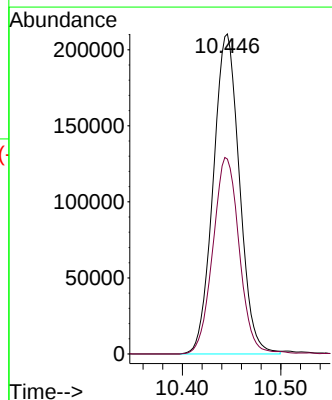
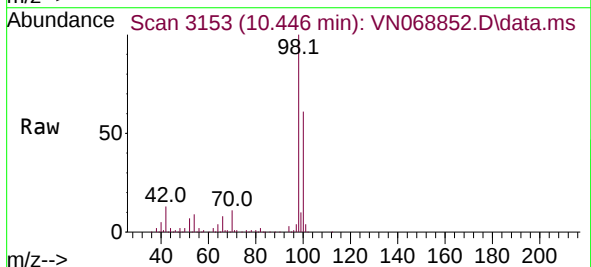
Instrument :
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ClientSampleId :
55TH-ST-33

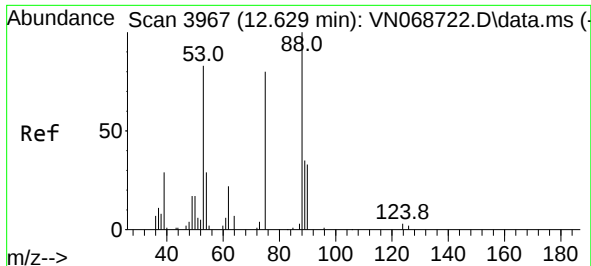
Tgt Ion: 95 Resp: 96506
Ion Ratio Lower Upper
95 100
174 79.7 62.9 94.3
176 76.2 61.0 91.4



#63
Toluene-d8
Concen: 31.689 ug/l
RT: 10.446 min Scan# 3153
Delta R.T. 0.003 min
Lab File: VN068852.D
Acq: 8 Oct 2021 16:54

Tgt Ion: 98 Resp: 389615
Ion Ratio Lower Upper
98 100
100 61.5 50.6 76.0

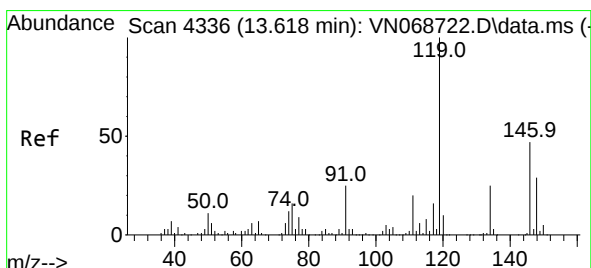
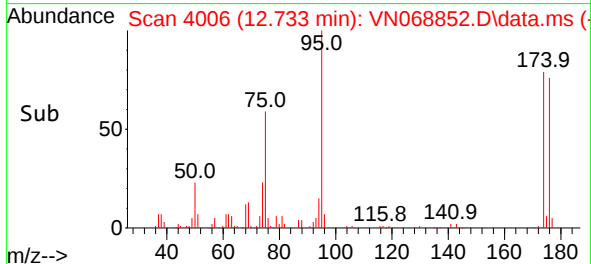
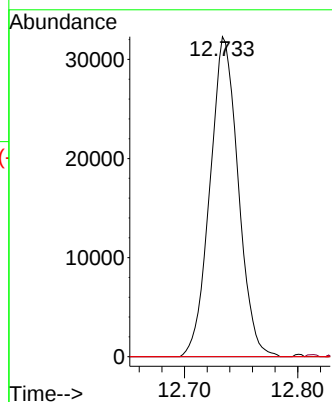
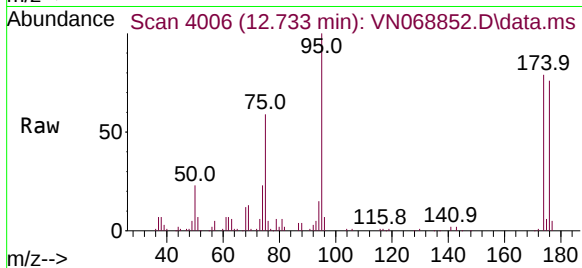




#77
t-1,4-Dichloro-2-butene
Concen: 33.962 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.104 min
Lab File: VN068852.D
Acq: 8 Oct 2021 16:54

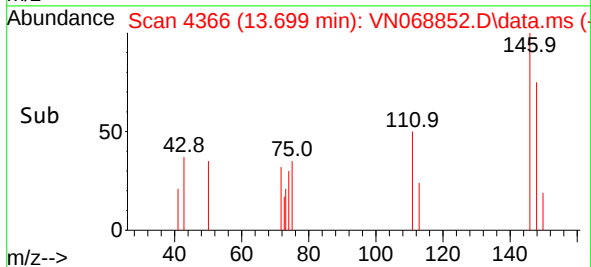
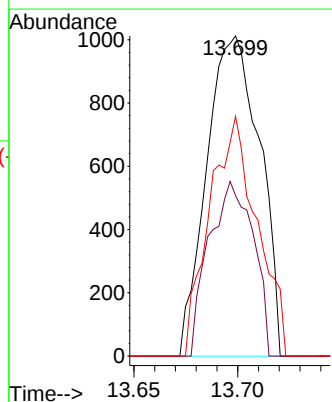
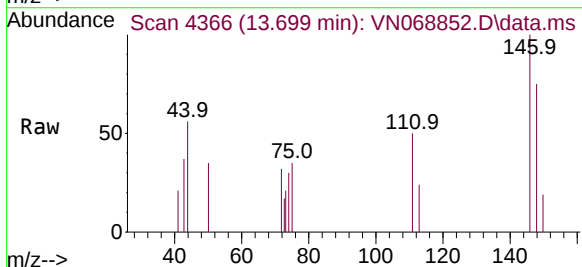
Instrument :
MSVOA_N
ClientSampleId :
55TH-ST-33

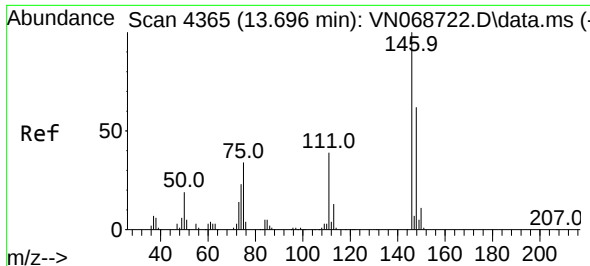
Tgt Ion: 75 Resp: 55857
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.5#
89 0.0 22.9 68.7#



#83
1,3-Dichlorobenzene
Concen: 0.231 ug/l
RT: 13.699 min Scan# 4366
Delta R.T. 0.081 min
Lab File: VN068852.D
Acq: 8 Oct 2021 16:54

Tgt Ion:146 Resp: 1794
Ion Ratio Lower Upper
146 100
111 45.7 20.8 62.2
148 40.7 31.4 94.3

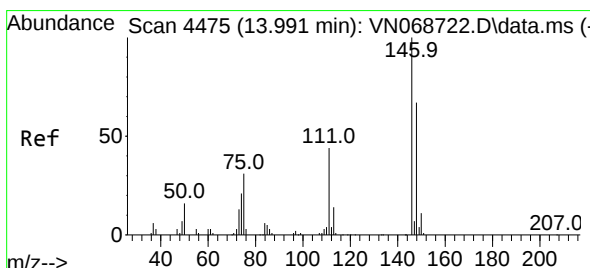
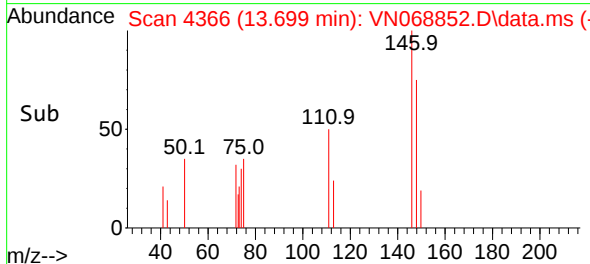
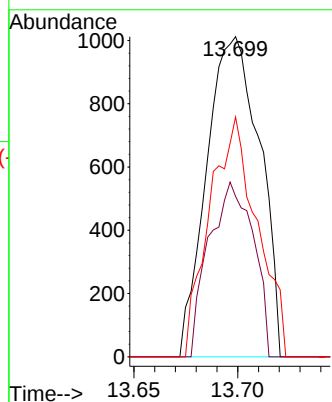
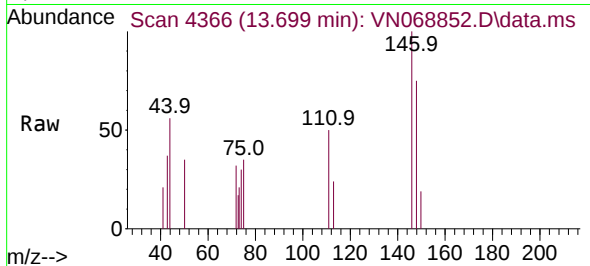




#84
1,4-Dichlorobenzene
Concen: 0.243 ug/l
RT: 13.699 min Scan# 4366
Delta R.T. 0.003 min
Lab File: VN068852.D
Acq: 8 Oct 2021 16:54

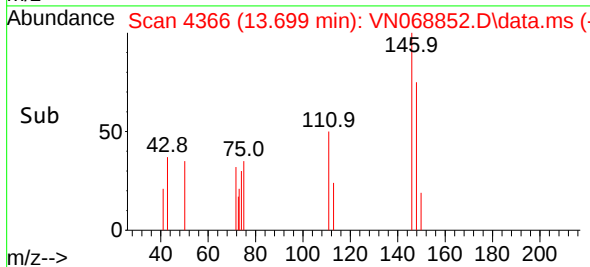
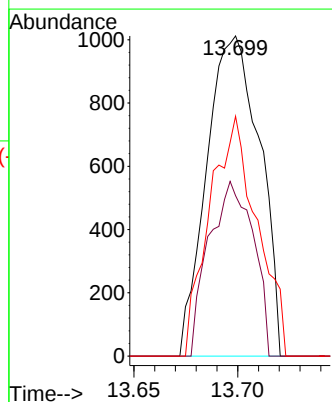
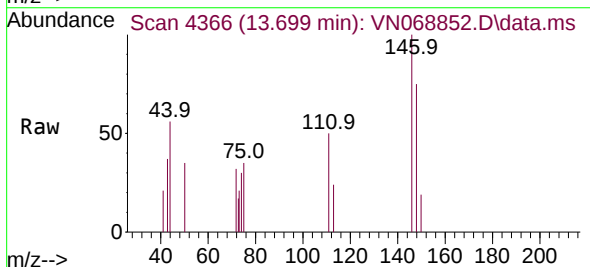
Instrument :
MSVOA_N
ClientSampleId :
55TH-ST-33

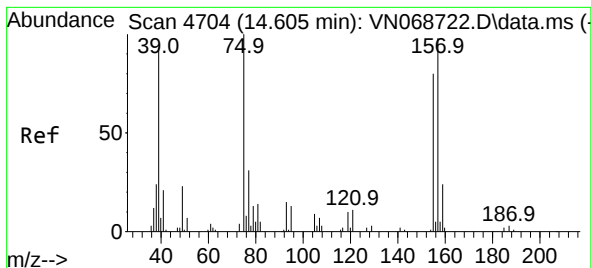
Tgt Ion:146 Resp: 1794
Ion Ratio Lower Upper
146 100
111 45.7 19.5 58.5
148 40.7 31.1 93.5



#87
1,2-Dichlorobenzene
Concen: 0.250 ug/l
RT: 13.699 min Scan# 4366
Delta R.T. -0.292 min
Lab File: VN068852.D
Acq: 8 Oct 2021 16:54

Tgt Ion:146 Resp: 1794
Ion Ratio Lower Upper
146 100
111 45.7 21.4 64.2
148 40.7 32.5 97.4





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.211 ug/l

RT: 14.600 min Scan# 4702

Delta R.T. -0.005 min

Lab File: VN068852.D

Acq: 8 Oct 2021 16:54

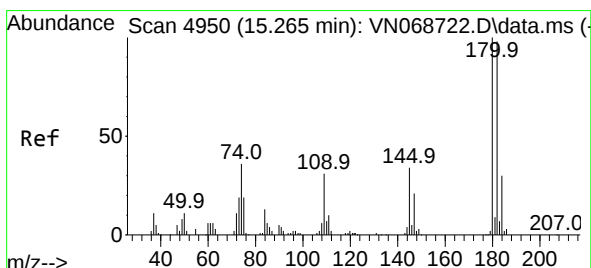
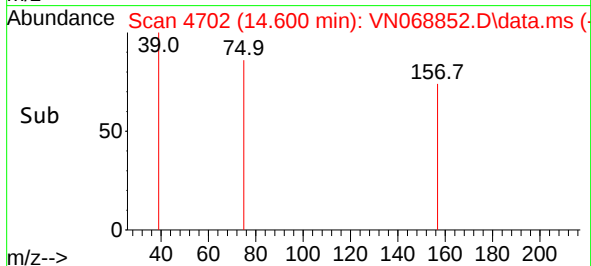
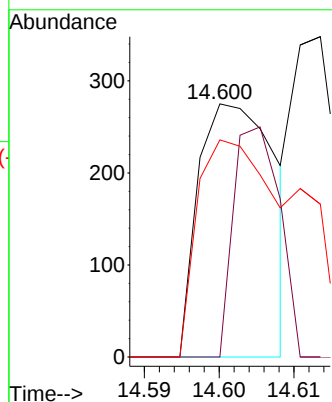
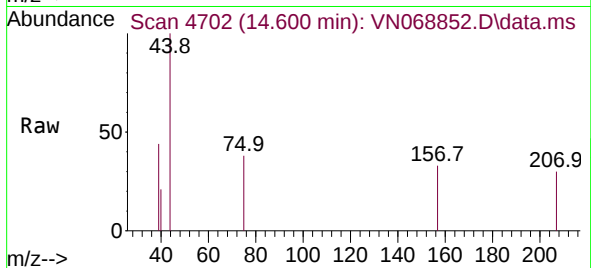
Tgt Ion: 75 Resp: 196

Ion Ratio Lower Upper

75 100

155 0.0 63.8 95.8#

157 83.7 77.9 116.9



#89

1,2,4-Trichlorobenzene

Concen: 0.689 ug/l

RT: 15.265 min Scan# 4950

Delta R.T. 0.000 min

Lab File: VN068852.D

Acq: 8 Oct 2021 16:54

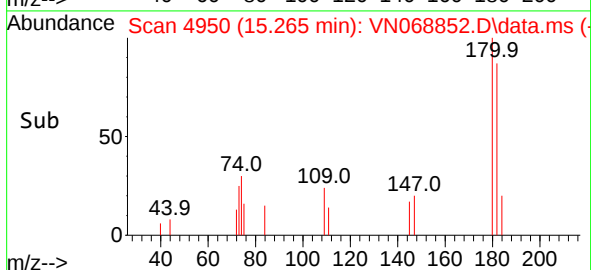
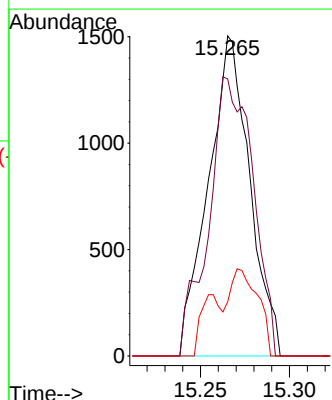
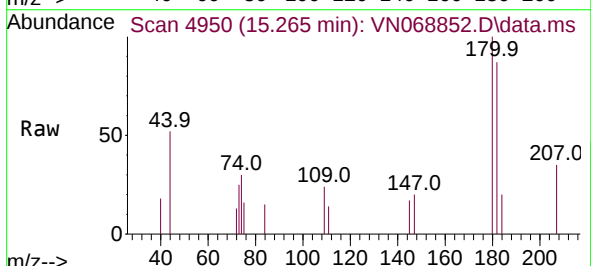
Tgt Ion: 180 Resp: 2429

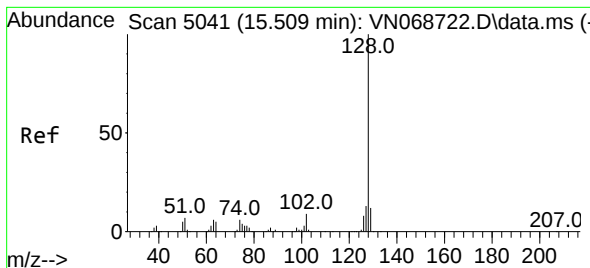
Ion Ratio Lower Upper

180 100

182 33.4 77.7 116.5#

145 18.8 26.6 39.8#

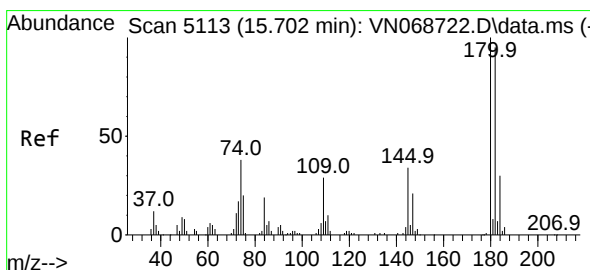
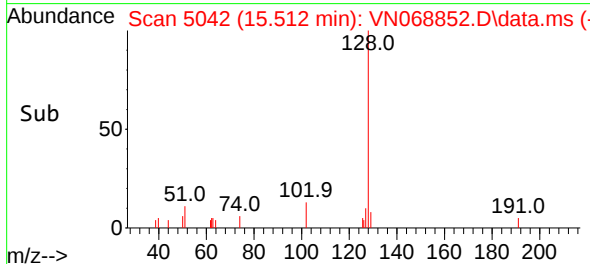
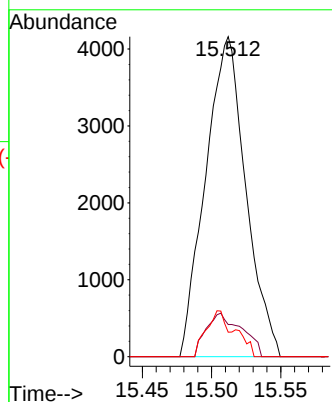
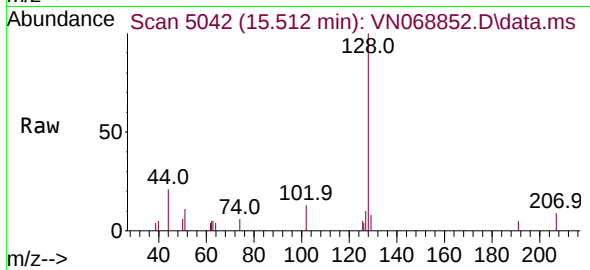




#91
Naphthalene
Concen: 0.845 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.003 min
Lab File: VN068852.D
Acq: 8 Oct 2021 16:54

Instrument :
MSVOA_N
ClientSampled :
55TH-ST-33

Tgt Ion:128 Resp: 8405
Ion Ratio Lower Upper
128 100
127 12.1 10.7 16.1
129 7.0 9.0 13.6#



#92
1,2,3-Trichlorobenzene
Concen: 0.719 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. -0.437 min
Lab File: VN068852.D
Acq: 8 Oct 2021 16:54

Tgt Ion:180 Resp: 2429
Ion Ratio Lower Upper
180 100
182 33.4 0.0 190.0
145 18.8 0.0 67.8

