

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042522\
 Data File : VN072193.D
 Acq On : 25 Apr 2022 20:42
 Operator : JC\MD
 Sample : N2524-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 33659

Quant Time: Apr 26 05:42:12 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N033022W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 31 01:57:54 2022
 Response via : Initial Calibration

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

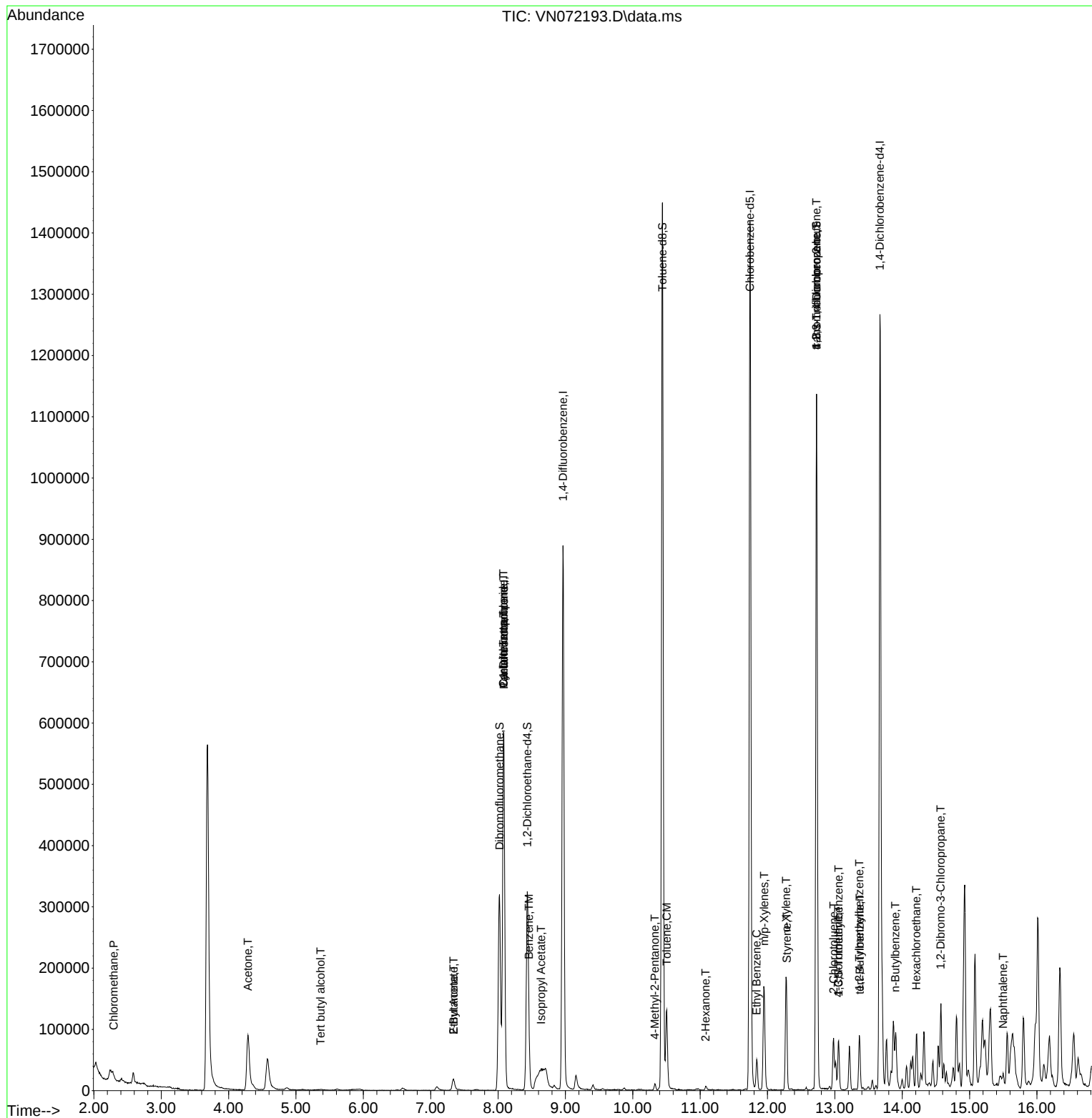
Internal Standards						
1) Pentafluorobenzene	8.086	168	503748	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	862881	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	930803	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.668	152	396852	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	254501	44.254	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	88.500%		
35) Dibromofluoromethane	8.022	113	241600	47.582	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	95.160%		
50) Toluene-d8	10.439	98	1075540	51.781	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	103.560%		
62) 4-Bromofluorobenzene	12.727	95	404690	60.242	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	120.480%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.293	50	1265	0.249	ug/l #	43
11) Tert butyl alcohol	5.363	59	1956	2.096	ug/l #	72
16) Acetone	4.287	43	166840	67.884	ug/l	94
18) Methyl Acetate	4.869	43	6590	Below Cal		98
25) 2-Butanone	7.339	43	31147	8.791	ug/l	93
31) Cyclohexane	8.081	56	7727	0.988	ug/l #	1
36) 1,1-Dichloropropene	8.081	75	31321	4.417	ug/l #	49
37) Ethyl Acetate	7.339	43	31147	4.013	ug/l #	67
38) Carbon Tetrachloride	8.081	117	43574	6.270	ug/l #	17
40) Benzene	8.457	78	36287	1.620	ug/l	94
43) Isopropyl Acetate	8.639	43	67601	5.237	ug/l #	54
51) 4-Methyl-2-Pentanone	10.327	43	7073	0.953	ug/l	91
52) Toluene	10.504	92	59403	4.195	ug/l	93
59) 2-Hexanone	11.080	43	4503	0.862	ug/l	72
67) Ethyl Benzene	11.839	91	35902	1.138	ug/l	98
68) m/p-Xylenes	11.951	106	60063	4.955	ug/l	97
69) o-Xylene	12.274	106	56342	4.682	ug/l	99
70) Styrene	12.286	104	4005	0.220	ug/l #	1
76) 1,2,3-Trichloropropane	12.727	75	186281	20.263	ug/l #	1
79) 2-Chlorotoluene	12.980	91	7293	0.323	ug/l #	40
80) 1,3,5-Trimethylbenzene	13.057	105	39793	1.502	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.727	75	186281	62.793	ug/l #	10
82) 4-Chlorotoluene	13.051	91	4481	0.214	ug/l #	40
83) tert-Butylbenzene	13.368	119	7102	0.293	ug/l #	69
84) 1,2,4-Trimethylbenzene	13.363	105	53861	2.083	ug/l	97
89) n-Butylbenzene	13.898	91	10881	0.586	ug/l #	1
90) Hexachloroethane	14.210	117	5316	1.160	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	14.568	75	515	0.298	ug/l #	1
95) Naphthalene	15.498	128	12860	4.460	ug/l #	88

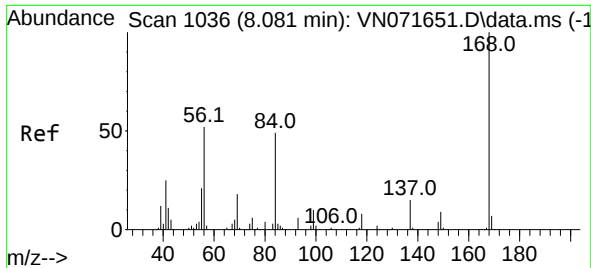
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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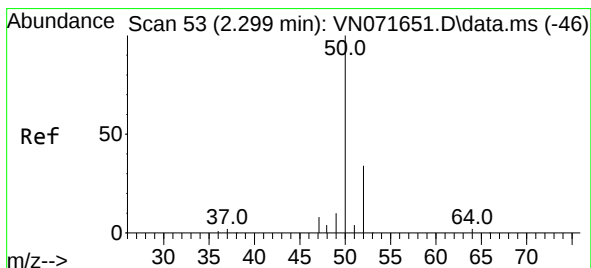
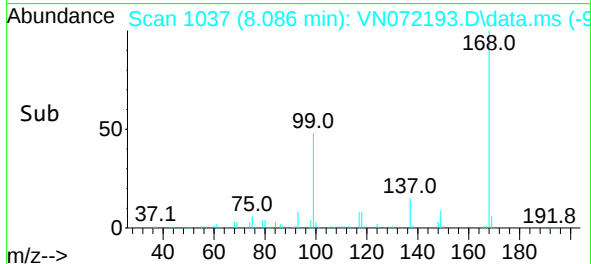
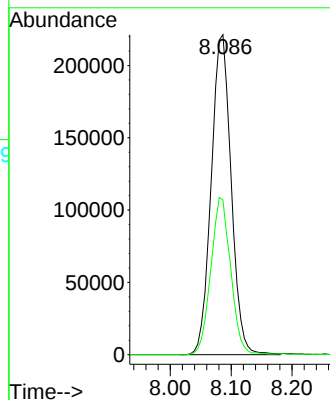
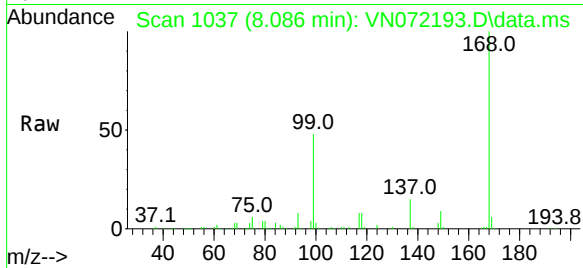




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

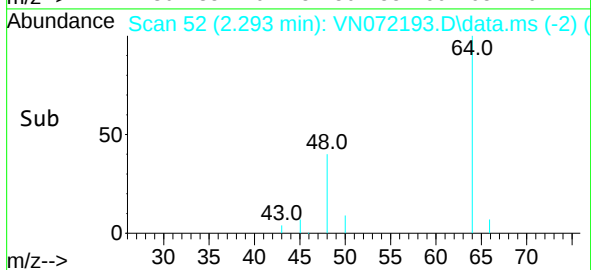
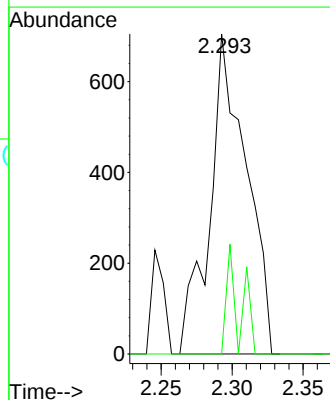
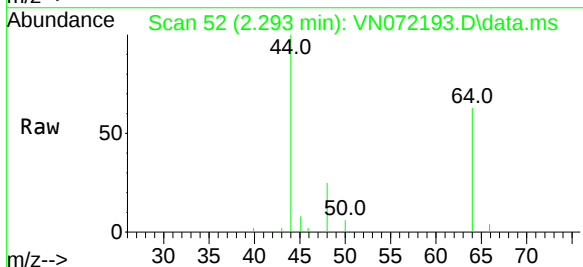
Instrument :
MSVOA_N
ClientSampleId :
33659

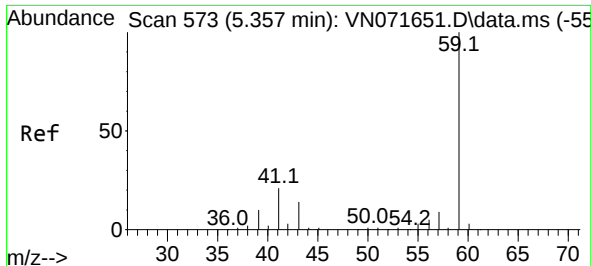
Tgt Ion:168 Resp: 503748
Ion Ratio Lower Upper
168 100
99 48.4 42.3 63.5



#3
Chloromethane
Concen: 0.249 ug/l
RT: 2.293 min Scan# 52
Delta R.T. -0.006 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

Tgt Ion: 50 Resp: 1265
Ion Ratio Lower Upper
50 100
52 0.0 25.7 38.5#

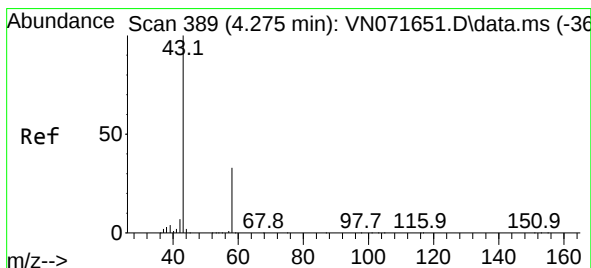
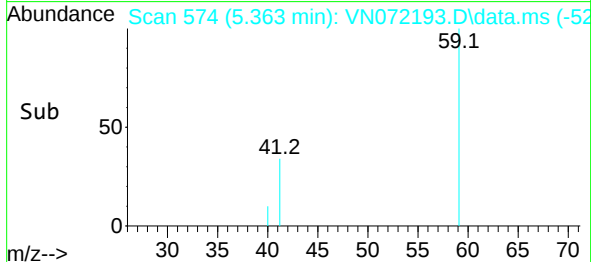
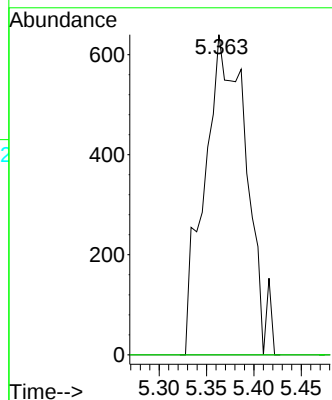
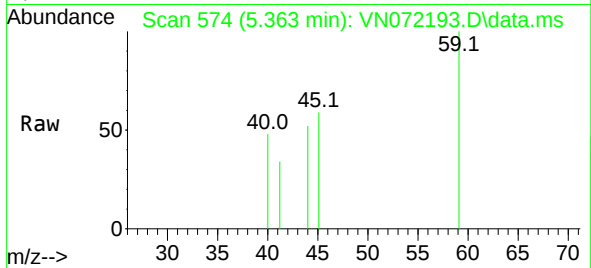




#11
Tert butyl alcohol
Concen: 2.096 ug/l
RT: 5.363 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

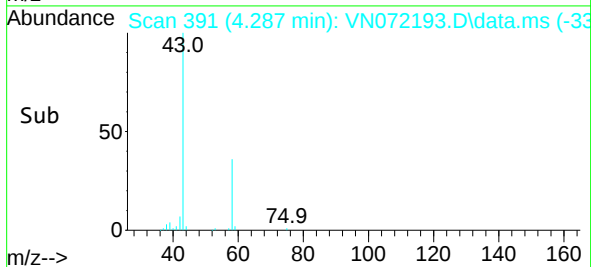
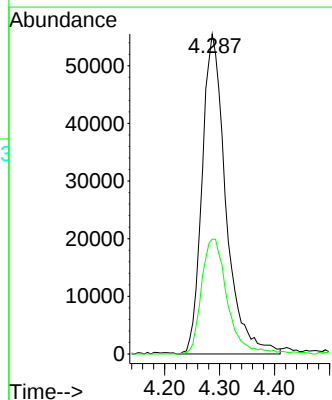
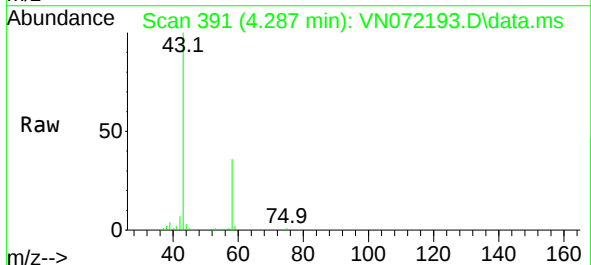
Instrument :
MSVOA_N
ClientSampleId :
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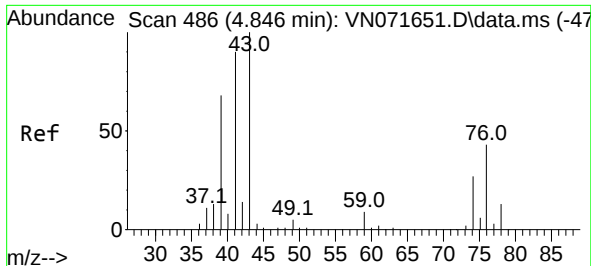
Tgt Ion: 59 Resp: 1956
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 67.884 ug/l
RT: 4.287 min Scan# 391
Delta R.T. 0.012 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

Tgt Ion: 43 Resp: 166840
Ion Ratio Lower Upper
43 100
58 35.9 26.0 39.0

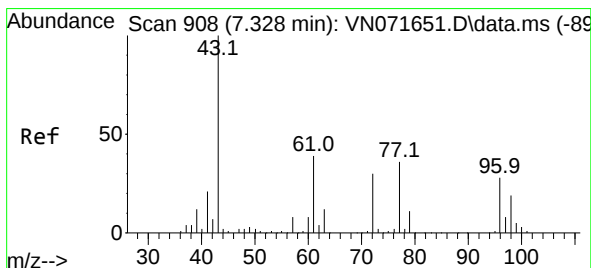
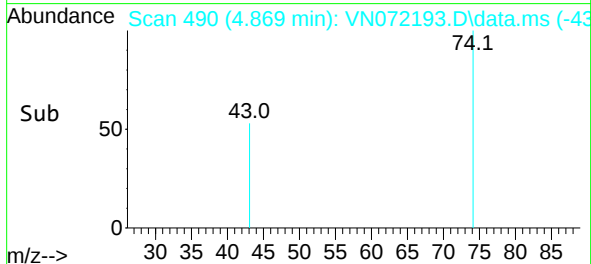
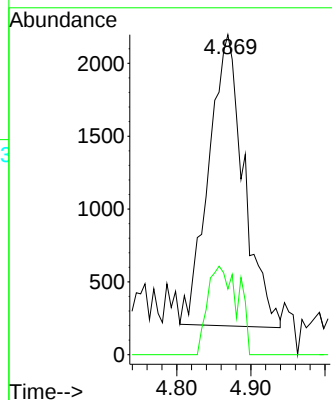
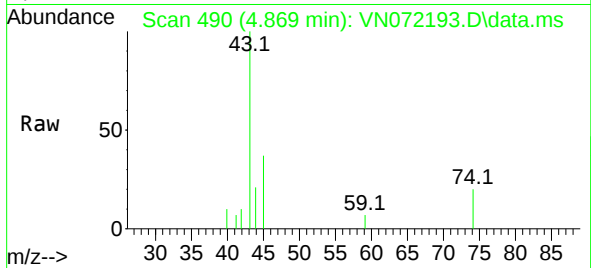




#18
Methyl Acetate
Concen: Below Cal
RT: 4.869 min Scan# 490
Delta R.T. 0.023 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

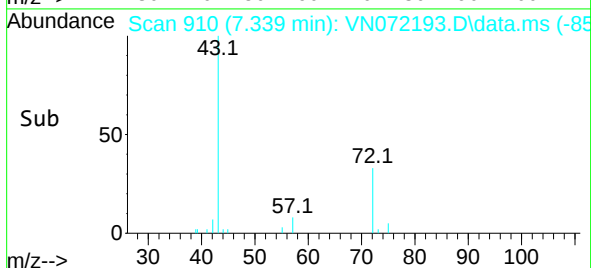
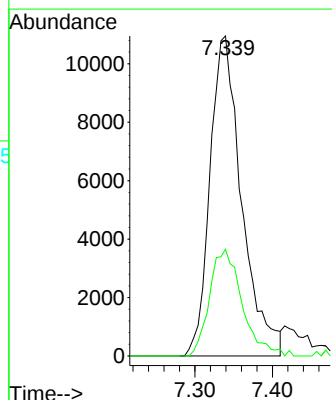
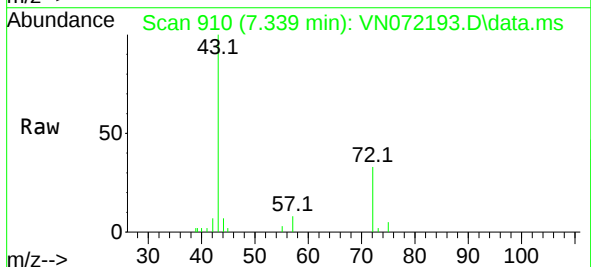
Instrument :
MSVOA_N
ClientSampleId :
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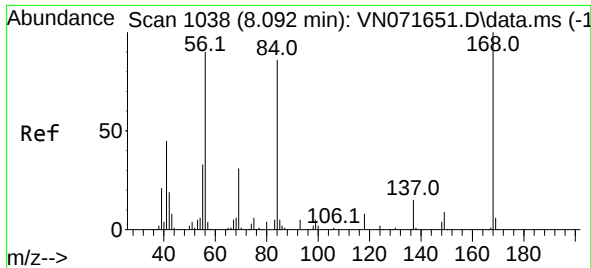
Tgt Ion: 43 Resp: 6590
Ion Ratio Lower Upper
43 100
74 26.2 21.6 32.4



#25
2-Butanone
Concen: 8.791 ug/l
RT: 7.339 min Scan# 910
Delta R.T. 0.011 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

Tgt Ion: 43 Resp: 31147
Ion Ratio Lower Upper
43 100
72 33.3 23.7 35.5

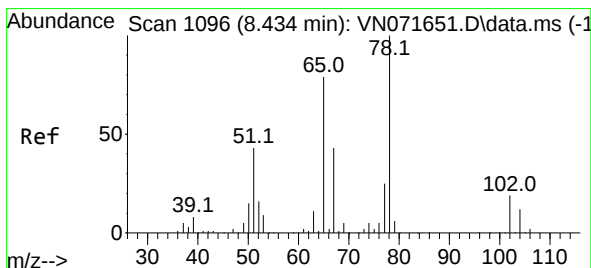
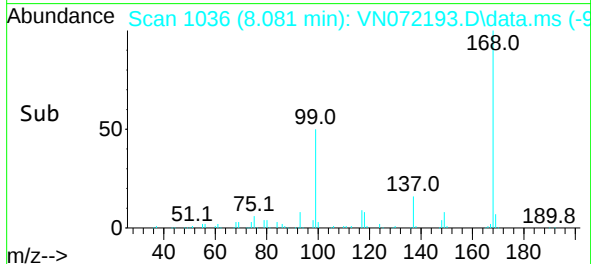
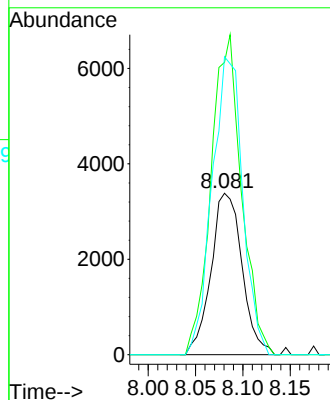
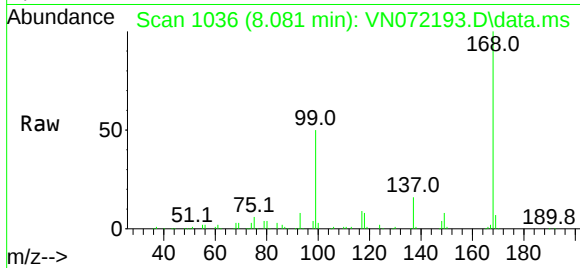




#31
Cyclohexane
Concen: 0.988 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.011 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

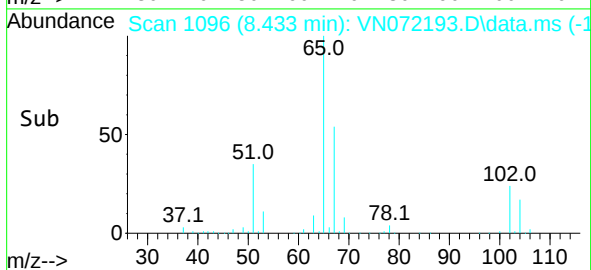
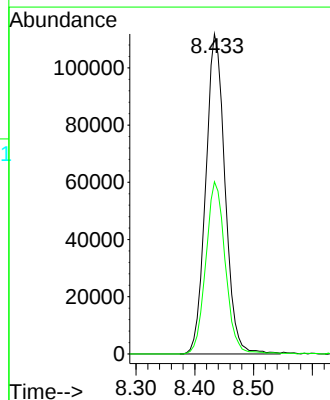
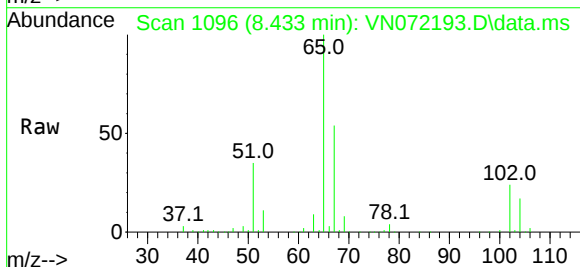
Instrument :
MSVOA_N
ClientSampleId :
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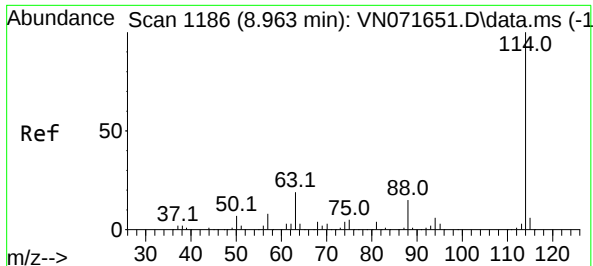
Tgt Ion: 56 Resp: 7727
Ion Ratio Lower Upper
56 100
69 181.0 27.8 41.8#
84 184.5 76.9 115.3#



#33
1,2-Dichloroethane-d4
Concen: 44.254 ug/l
RT: 8.433 min Scan# 1096
Delta R.T. -0.001 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

Tgt Ion: 65 Resp: 254501
Ion Ratio Lower Upper
65 100
67 54.2 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. -0.000 min

Lab File: VN072193.D

Acq: 25 Apr 2022 20:42

Instrument :

MSVOA_N

ClientSampleId :

33659

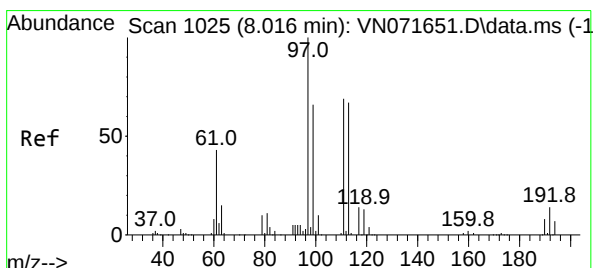
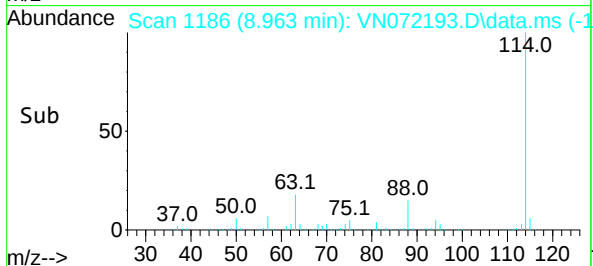
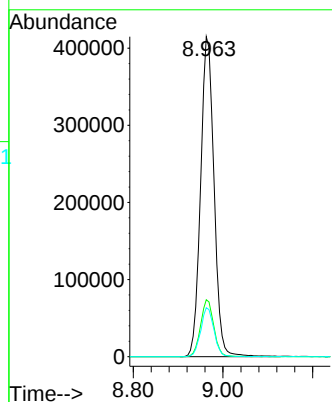
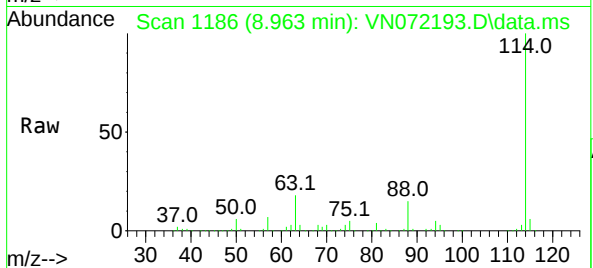
Tgt Ion:114 Resp: 862881

Ion Ratio Lower Upper

114 100

63 17.8 0.0 40.0

88 15.3 0.0 32.6



#35

Dibromofluoromethane

Concen: 47.582 ug/l

RT: 8.022 min Scan# 1026

Delta R.T. 0.006 min

Lab File: VN072193.D

Acq: 25 Apr 2022 20:42

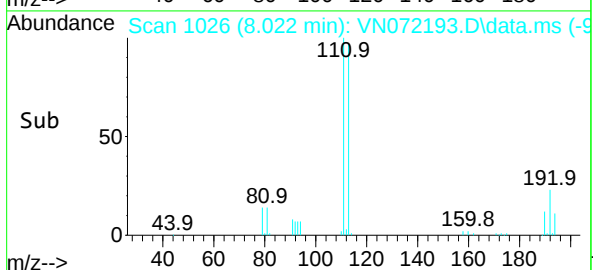
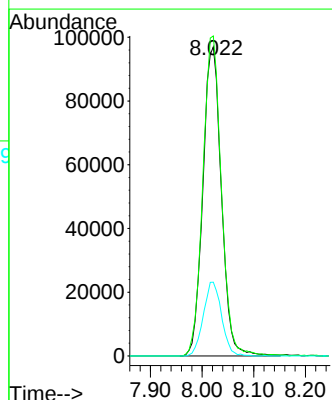
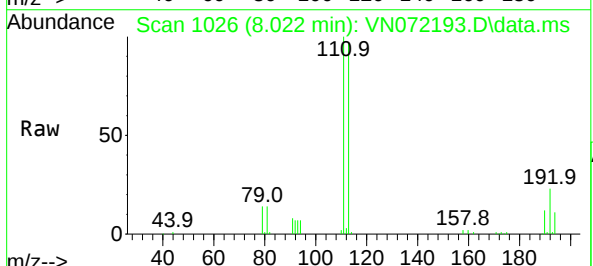
Tgt Ion:113 Resp: 241600

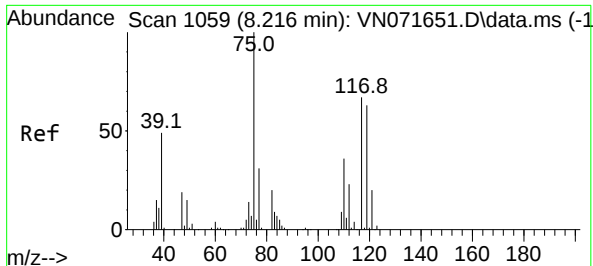
Ion Ratio Lower Upper

113 100

111 103.2 81.4 122.0

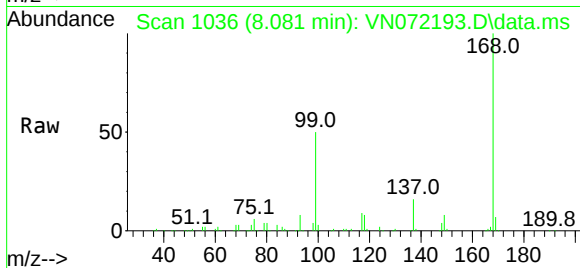
192 23.5 17.0 25.6



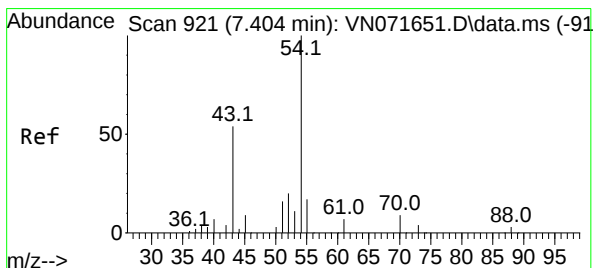
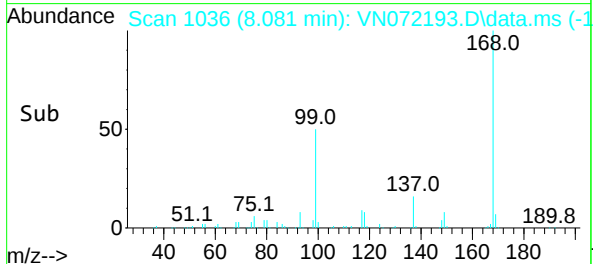
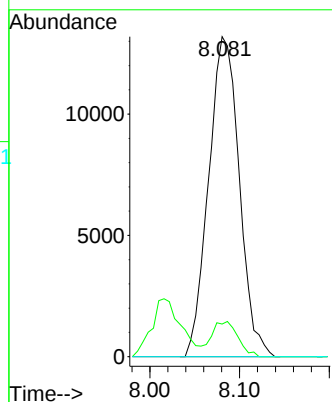


#36
1,1-Dichloropropene
Concen: 4.417 ug/l
RT: 8.081 min Scan# 1059
Delta R.T. -0.135 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

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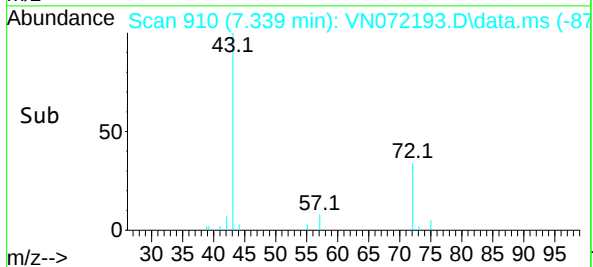
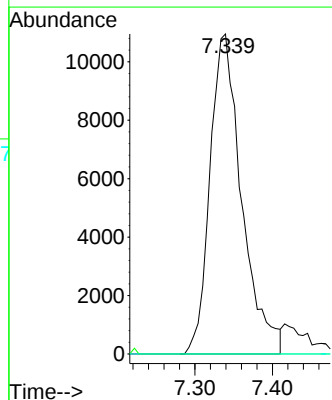
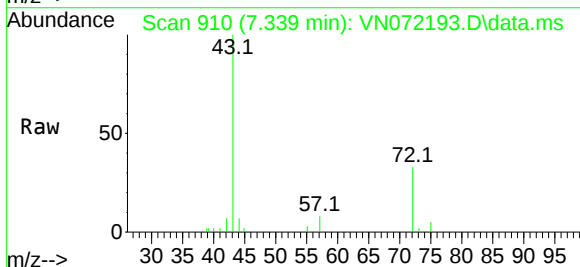


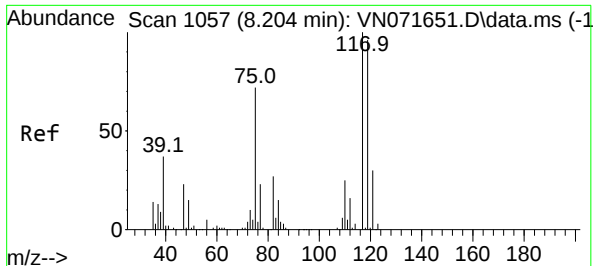
Tgt Ion: 75 Resp: 31321
Ion Ratio Lower Upper
75 100
110 9.4 18.3 54.8#
77 0.0 25.1 37.7#



#37
Ethyl Acetate
Concen: 4.013 ug/l
RT: 7.339 min Scan# 910
Delta R.T. -0.065 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

Tgt Ion: 43 Resp: 31147
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.6#
70 0.0 9.3 13.9#

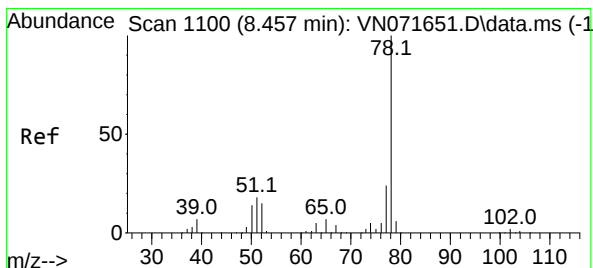
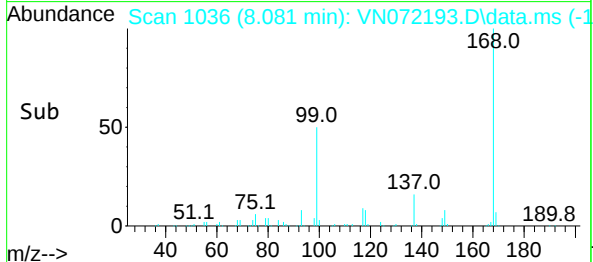
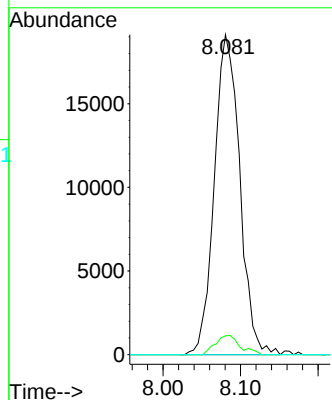
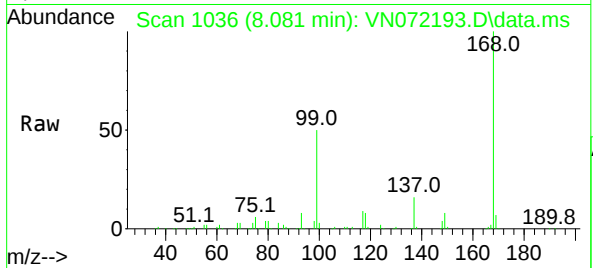




#38
Carbon Tetrachloride
Concen: 6.270 ug/l
RT: 8.081 min Scan# 110
Delta R.T. -0.123 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

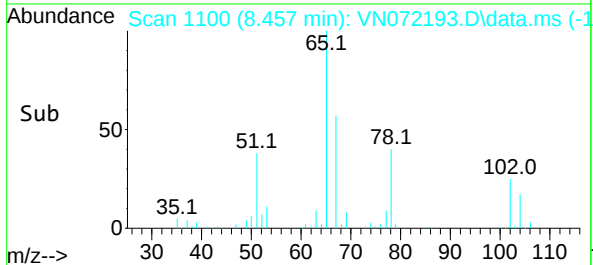
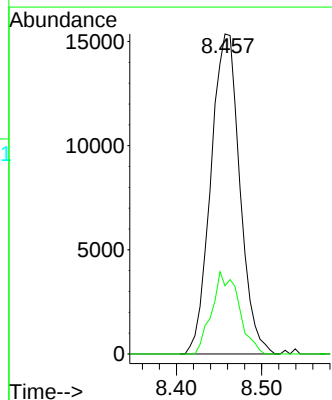
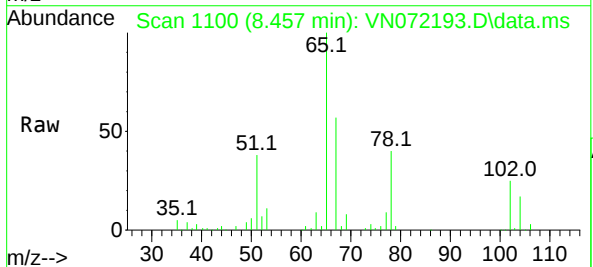
Instrument :
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ClientSampleId :
33659

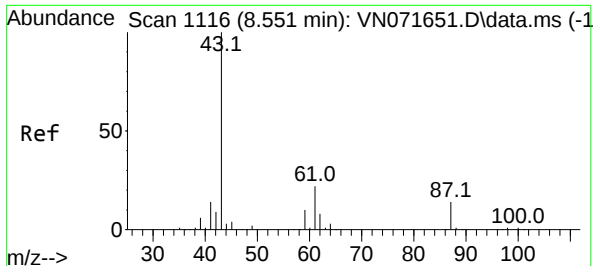
Tgt Ion:117 Resp: 43574
Ion Ratio Lower Upper
117 100
119 5.9 75.8 113.8#
121 0.0 24.6 37.0#



#40
Benzene
Concen: 1.620 ug/l
RT: 8.457 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

Tgt Ion: 78 Resp: 36287
Ion Ratio Lower Upper
78 100
77 21.3 19.4 29.0





#43

Isopropyl Acetate

Concen: 5.237 ug/l

RT: 8.639 min Scan# 1116

Delta R.T. 0.088 min

Lab File: VN072193.D

Acq: 25 Apr 2022 20:42

Instrument :

MSVOA_N

ClientSampleId :

33659

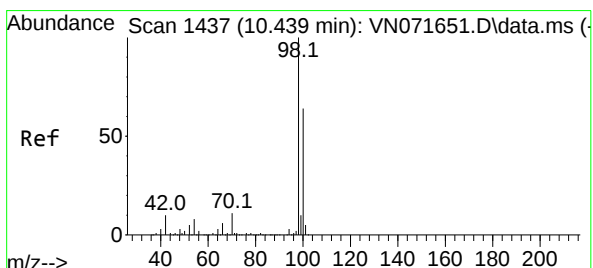
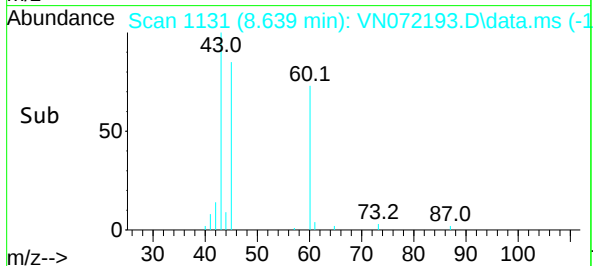
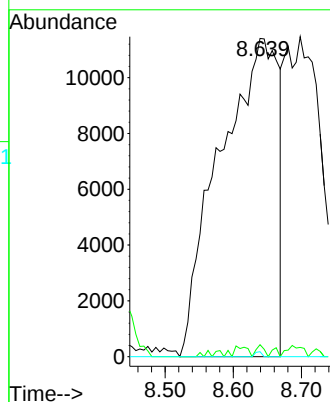
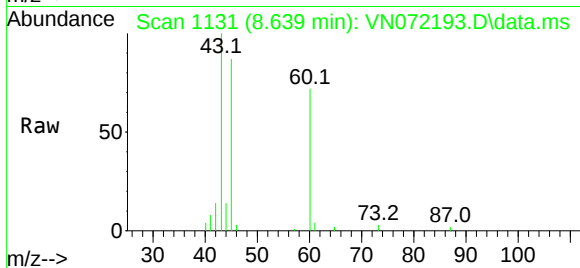
Tgt Ion: 43 Resp: 67601

Ion Ratio Lower Upper

43 100

61 0.5 21.9 32.9#

87 0.2 12.0 18.0#



#50

Toluene-d8

Concen: 51.781 ug/l

RT: 10.439 min Scan# 1437

Delta R.T. 0.000 min

Lab File: VN072193.D

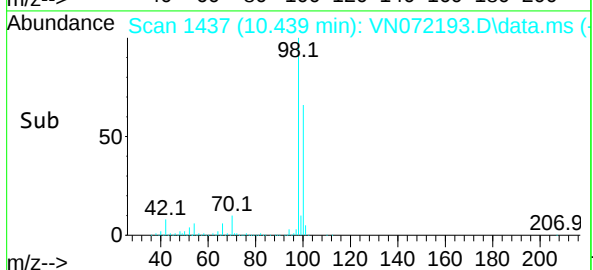
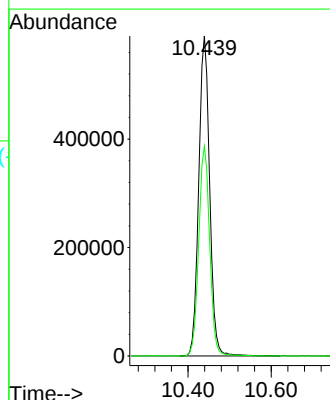
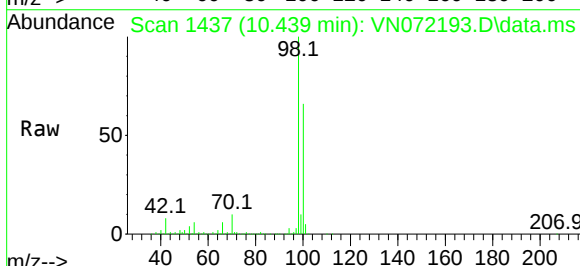
Acq: 25 Apr 2022 20:42

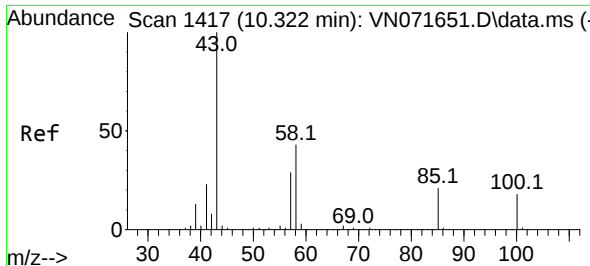
Tgt Ion: 98 Resp: 1075540

Ion Ratio Lower Upper

98 100

100 66.0 52.6 78.8





#51

4-Methyl-2-Pentanone

Concen: 0.953 ug/l

RT: 10.327 min Scan# 1417

Delta R.T. 0.005 min

Lab File: VN072193.D

Acq: 25 Apr 2022 20:42

Instrument :

MSVOA_N

ClientSampleId :

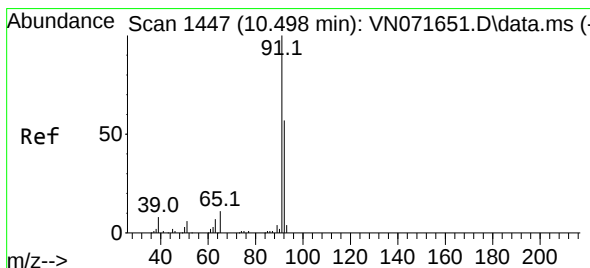
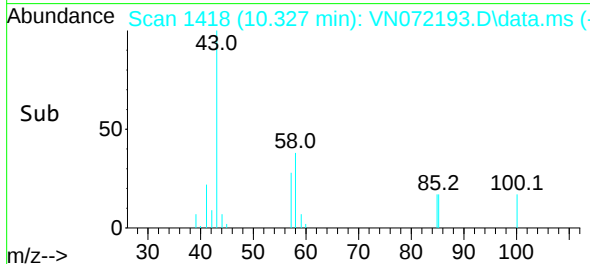
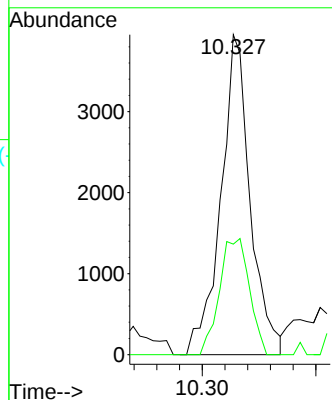
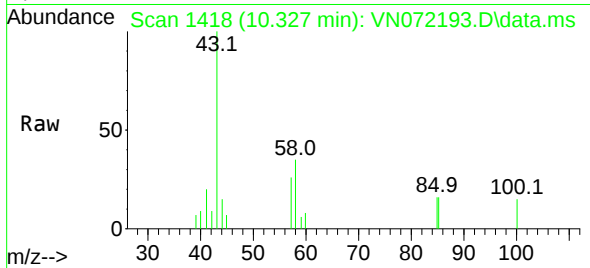
33659

Tgt Ion: 43 Resp: 7073

Ion Ratio Lower Upper

43 100

58 37.0 34.1 51.1



#52

Toluene

Concen: 4.195 ug/l

RT: 10.504 min Scan# 1448

Delta R.T. 0.006 min

Lab File: VN072193.D

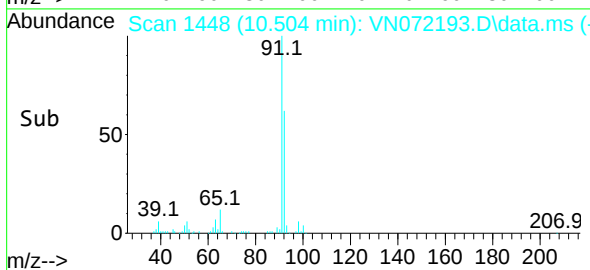
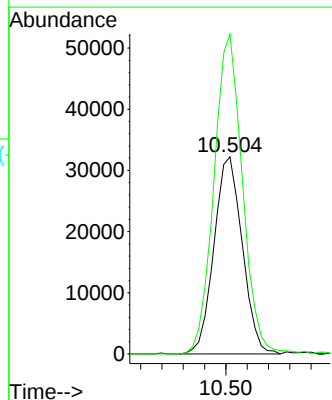
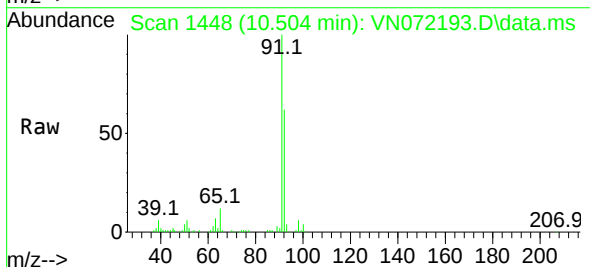
Acq: 25 Apr 2022 20:42

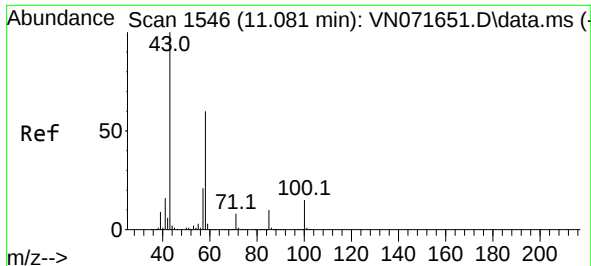
Tgt Ion: 92 Resp: 59403

Ion Ratio Lower Upper

92 100

91 163.5 138.6 207.8

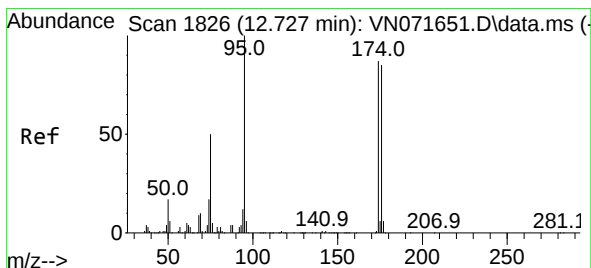
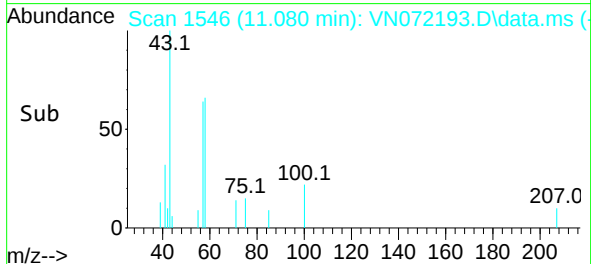
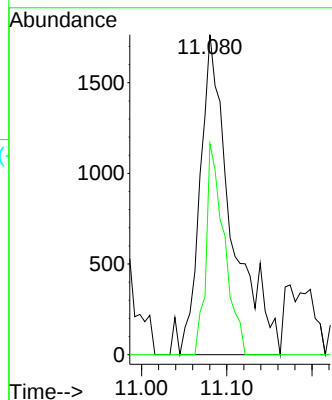
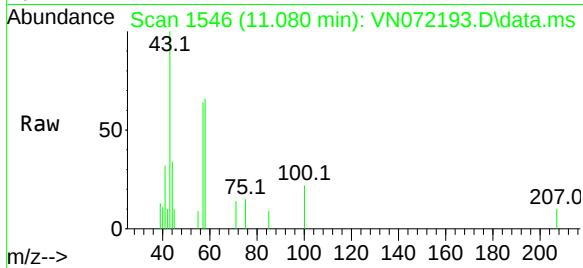




#59
2-Hexanone
Concen: 0.862 ug/l
RT: 11.080 min Scan# 11
Delta R.T. -0.001 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

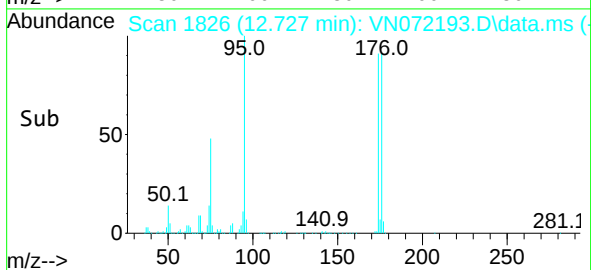
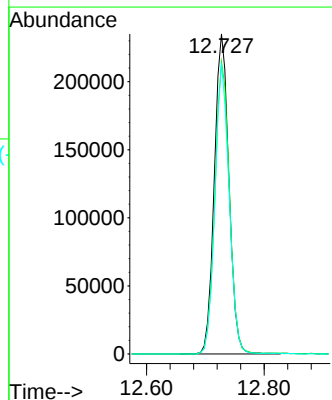
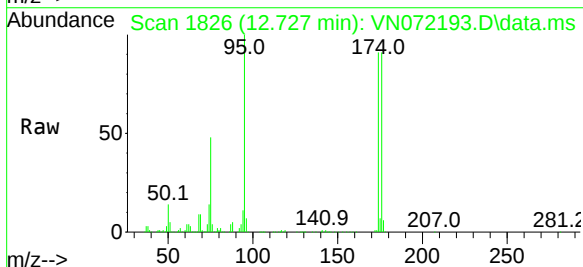
Instrument :
MSVOA_N
ClientSampleId :
33659

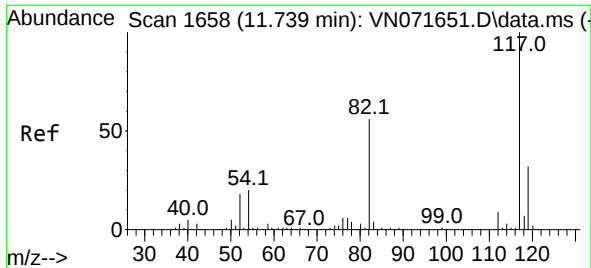
Tgt Ion: 43 Resp: 4503
Ion Ratio Lower Upper
43 100
58 38.2 29.7 89.1



#62
4-Bromofluorobenzene
Concen: 60.242 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

Tgt Ion: 95 Resp: 404690
Ion Ratio Lower Upper
95 100
174 91.1 0.0 167.6
176 88.1 0.0 163.4

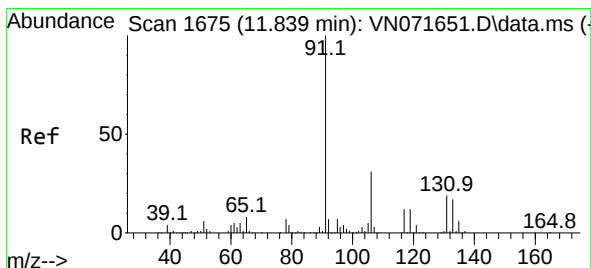
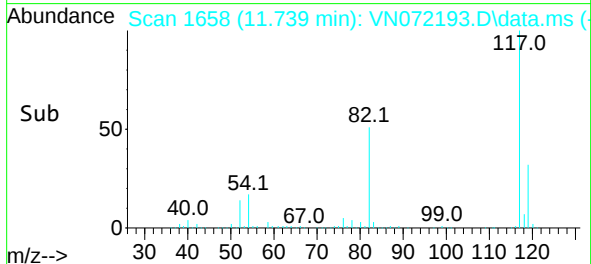
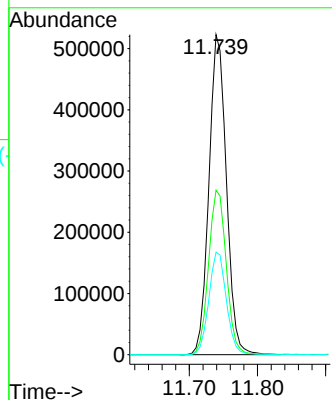
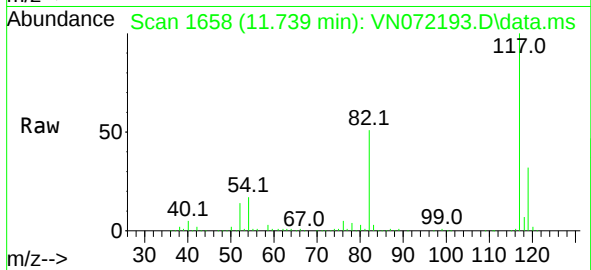




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

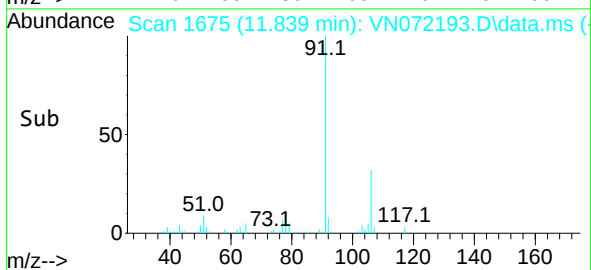
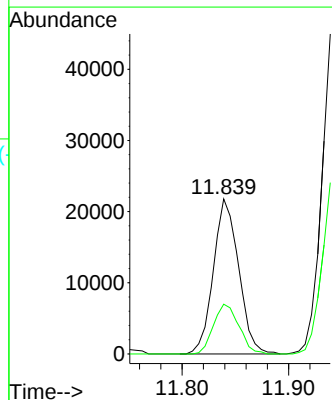
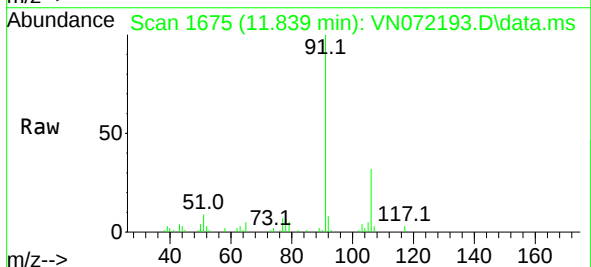
Instrument :
MSVOA_N
ClientSampleId :
33659

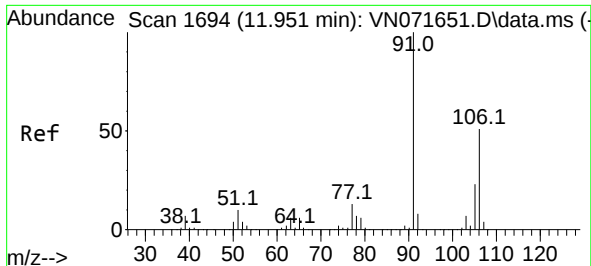
Tgt Ion:117 Resp: 930803
Ion Ratio Lower Upper
117 100
82 51.4 44.2 66.2
119 32.1 25.4 38.0



#67
Ethyl Benzene
Concen: 1.138 ug/l
RT: 11.839 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

Tgt Ion: 91 Resp: 35902
Ion Ratio Lower Upper
91 100
106 32.1 24.9 37.3

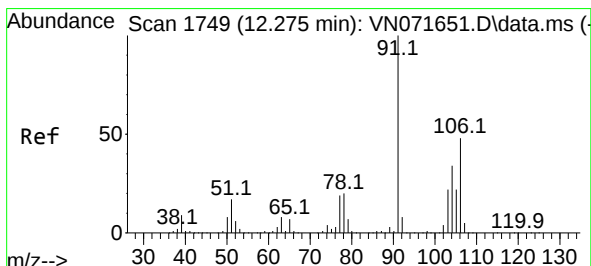
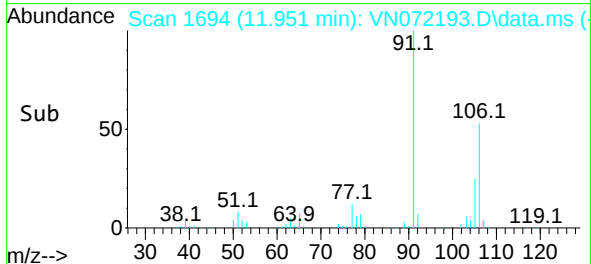
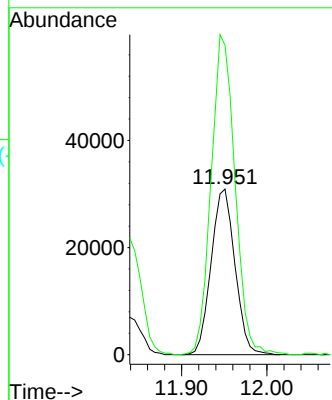
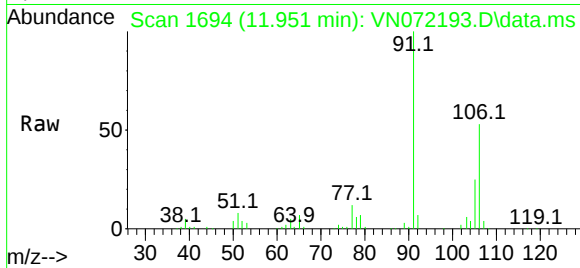




#68
m/p-Xylenes
Concen: 4.955 ug/l
RT: 11.951 min Scan# 1694
Delta R.T. -0.000 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

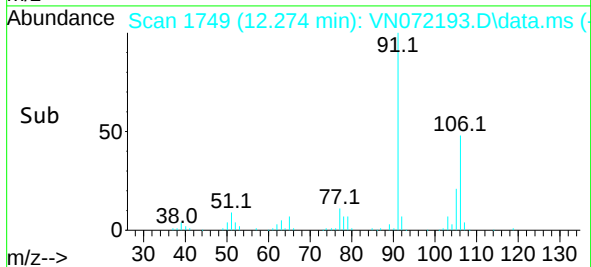
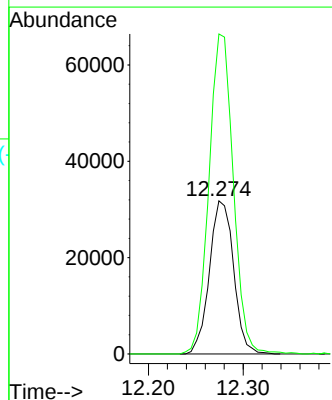
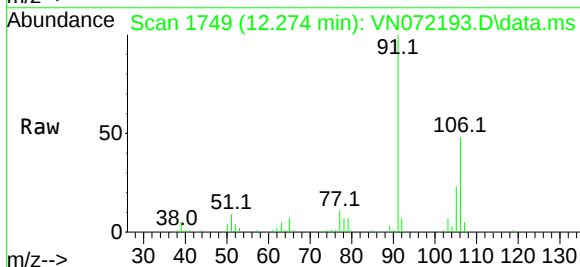
Instrument :
MSVOA_N
ClientSampleId :
33659

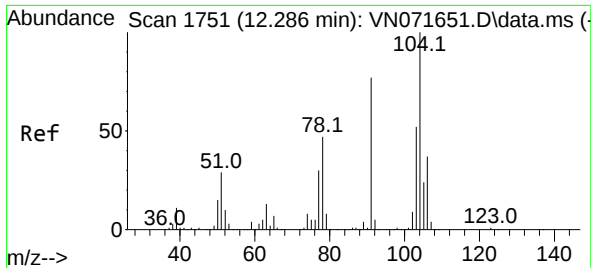
Tgt Ion:106 Resp: 60063
Ion Ratio Lower Upper
106 100
91 193.7 158.9 238.3



#69
o-Xylene
Concen: 4.682 ug/l
RT: 12.274 min Scan# 1749
Delta R.T. -0.001 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

Tgt Ion:106 Resp: 56342
Ion Ratio Lower Upper
106 100
91 210.3 106.0 318.0

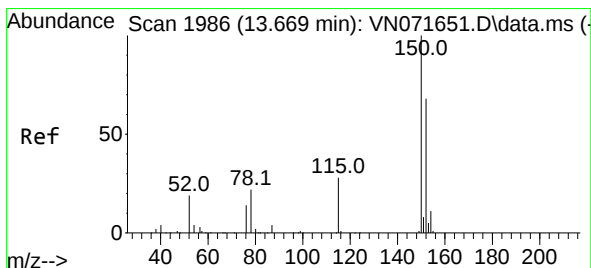
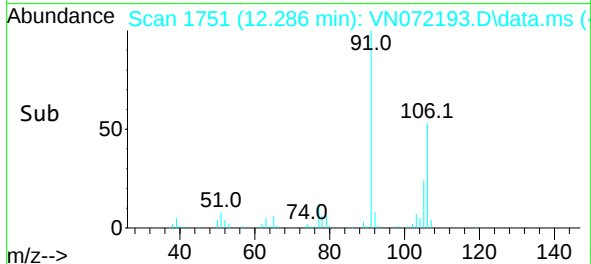
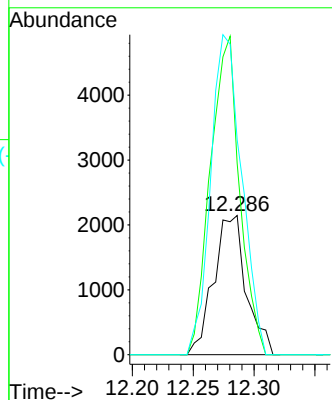
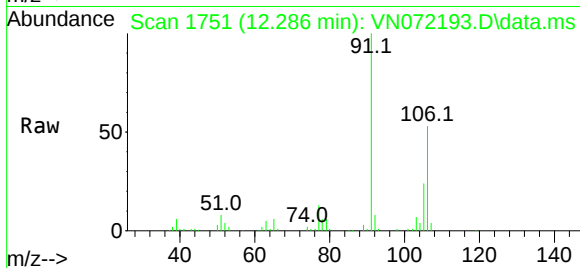




#70
Styrene
Concen: 0.220 ug/l
RT: 12.286 min Scan# 1751
Delta R.T. 0.000 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

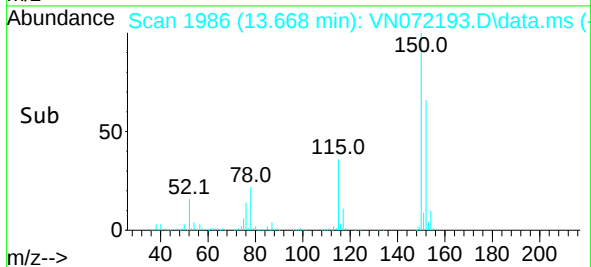
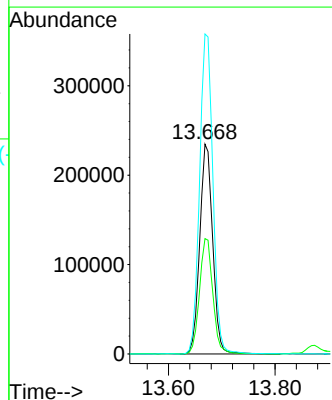
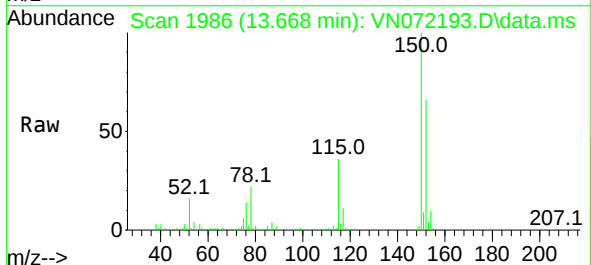
Instrument :
MSVOA_N
ClientSampleId :
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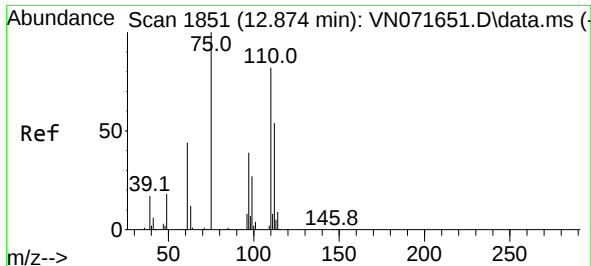
Tgt Ion:104 Resp: 4005
Ion Ratio Lower Upper
104 100
78 204.8 39.5 59.3#
103 218.4 44.0 66.0#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.668 min Scan# 1986
Delta R.T. -0.001 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

Tgt Ion:152 Resp: 396852
Ion Ratio Lower Upper
152 100
115 56.7 28.9 86.7
150 156.4 0.0 356.2

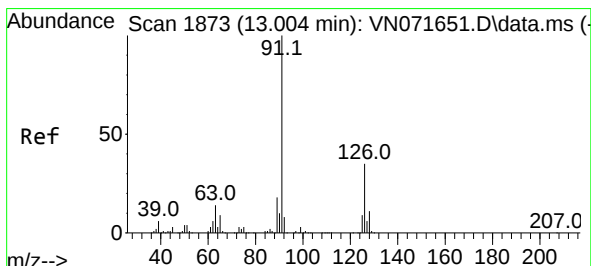
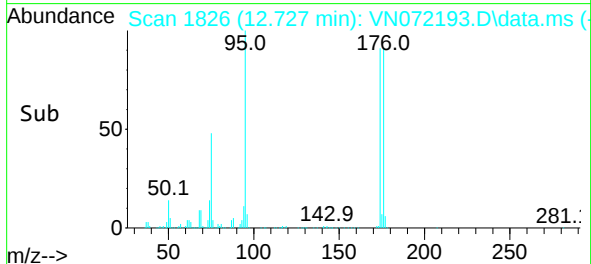
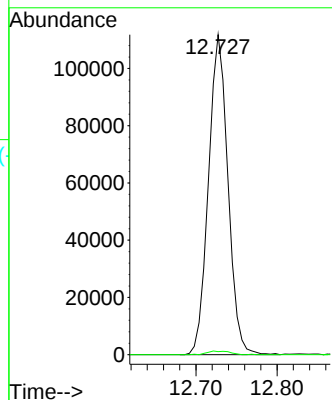
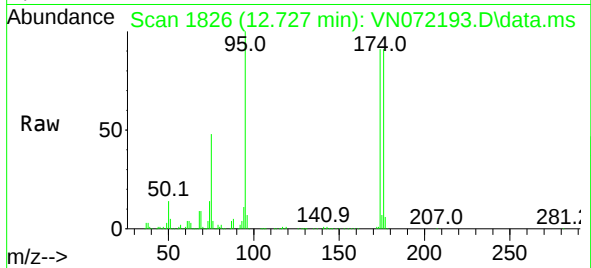




#76
1,2,3-Trichloropropane
Concen: 20.263 ug/l
RT: 12.727 min Scan# 1869
Delta R.T. -0.147 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

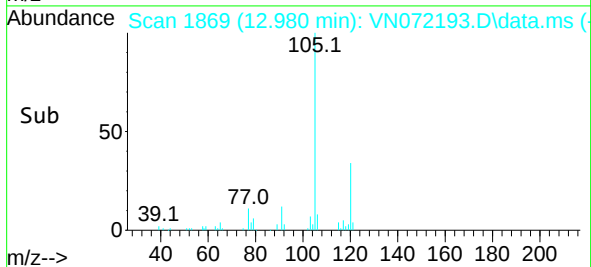
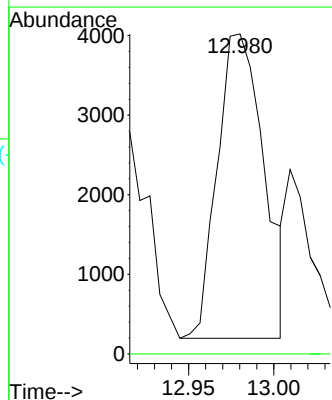
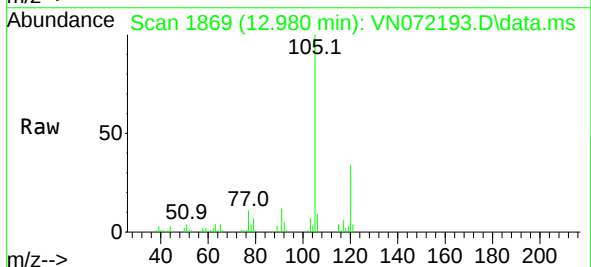
Instrument :
MSVOA_N
ClientSampleId :
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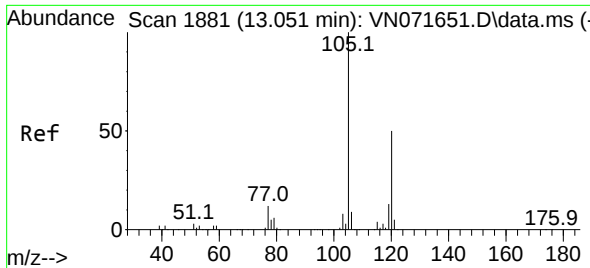
Tgt Ion: 75 Resp: 186281
Ion Ratio Lower Upper
75 100
77 1.3 98.5 295.5#



#79
2-Chlorotoluene
Concen: 0.323 ug/l
RT: 12.980 min Scan# 1869
Delta R.T. -0.024 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

Tgt Ion: 91 Resp: 7293
Ion Ratio Lower Upper
91 100
126 0.0 17.3 51.9#

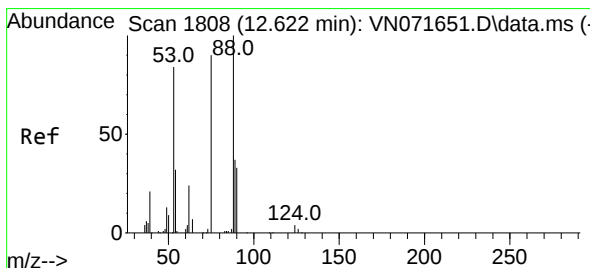
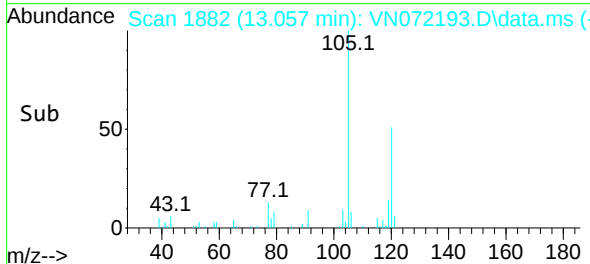
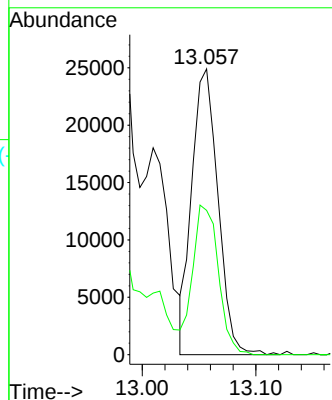
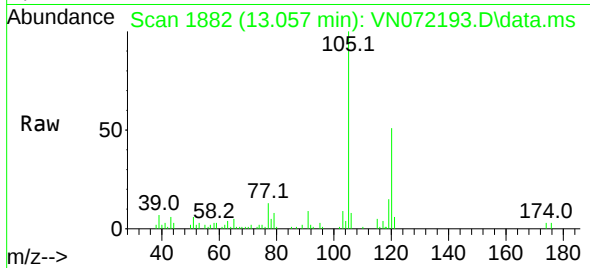




#80
1,3,5-Trimethylbenzene
Concen: 1.502 ug/l
RT: 13.057 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

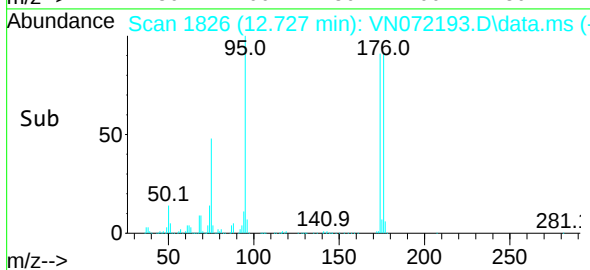
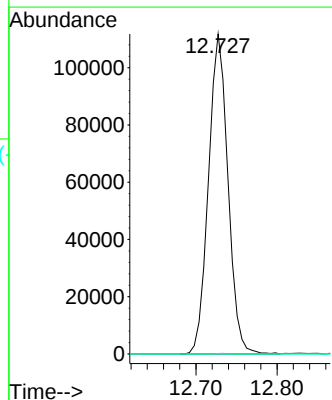
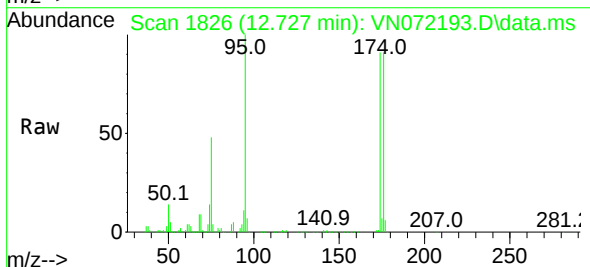
Instrument :
MSVOA_N
ClientSampleId :
33659

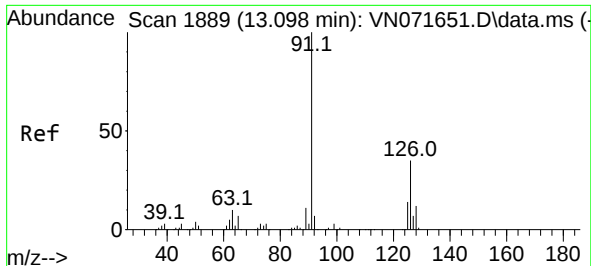
Tgt Ion:105 Resp: 39793
Ion Ratio Lower Upper
105 100
120 51.4 24.9 74.7



#81
trans-1,4-Dichloro-2-butene
Concen: 62.793 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.105 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

Tgt Ion: 75 Resp: 186281
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 37.2 55.8#

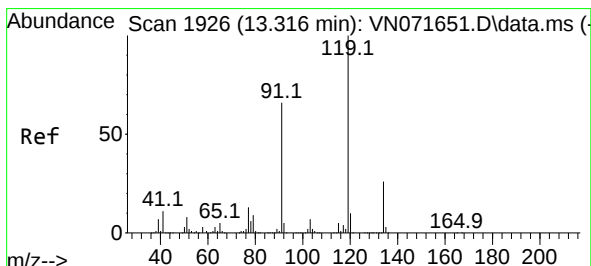
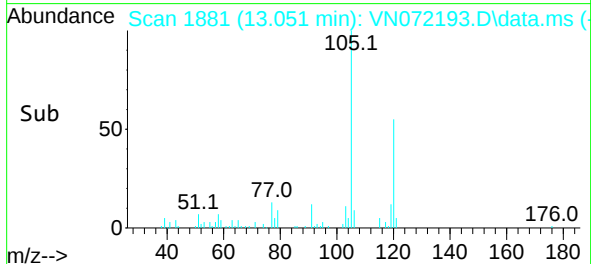
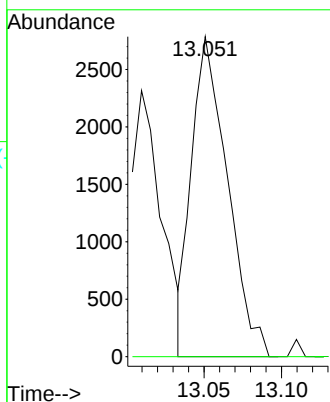
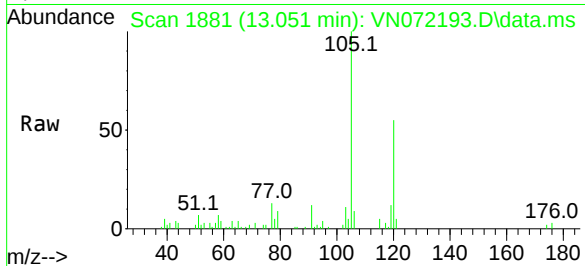




#82
4-Chlorotoluene
Concen: 0.214 ug/l
RT: 13.051 min Scan# 11
Delta R.T. -0.047 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

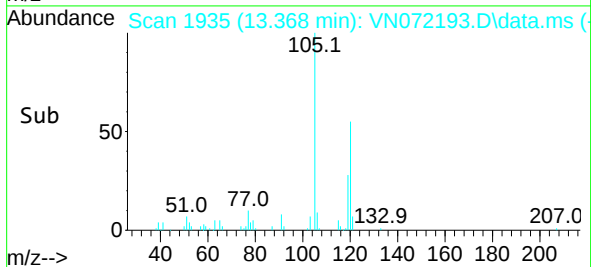
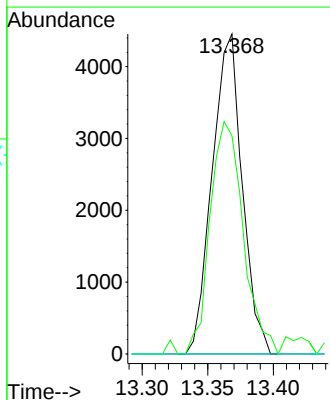
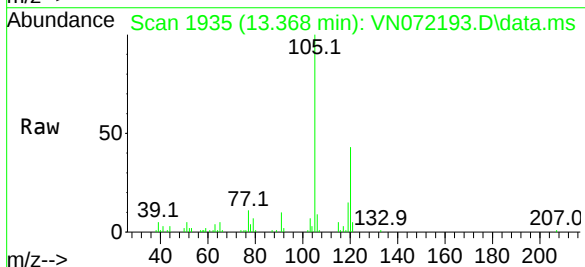
Instrument :
MSVOA_N
ClientSampleId :
33659

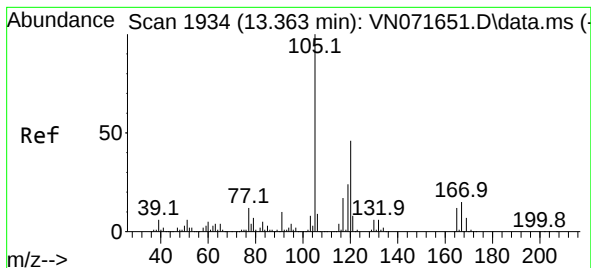
Tgt Ion: 91 Resp: 4481
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#



#83
tert-Butylbenzene
Concen: 0.293 ug/l
RT: 13.368 min Scan# 1935
Delta R.T. 0.052 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

Tgt Ion: 119 Resp: 7102
Ion Ratio Lower Upper
119 100
91 80.0 31.6 94.8
134 0.0 13.7 41.1#





#84

1,2,4-Trimethylbenzene

Concen: 2.083 ug/l

RT: 13.363 min Scan# 1934

Delta R.T. -0.000 min

Lab File: VN072193.D

Acq: 25 Apr 2022 20:42

Instrument :

MSVOA_N

ClientSampleId :

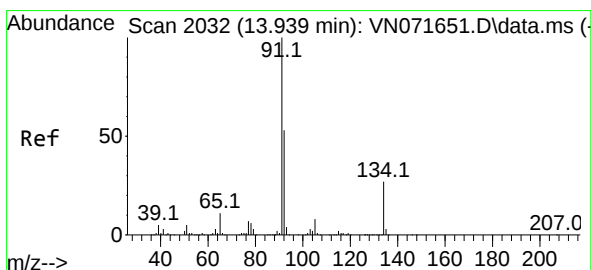
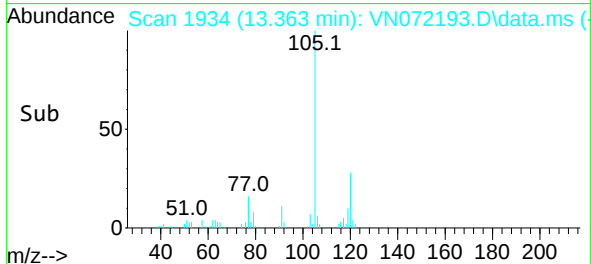
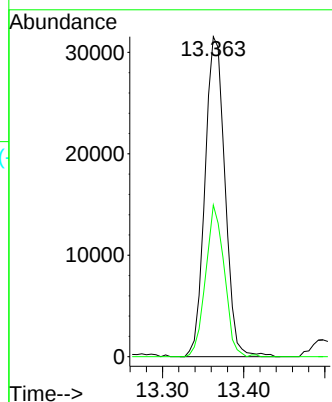
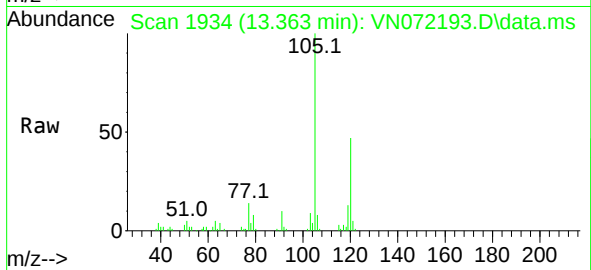
33659

Tgt Ion:105 Resp: 53861

Ion Ratio Lower Upper

105 100

120 44.4 23.3 69.8



#89

n-Butylbenzene

Concen: 0.586 ug/l

RT: 13.898 min Scan# 2025

Delta R.T. -0.041 min

Lab File: VN072193.D

Acq: 25 Apr 2022 20:42

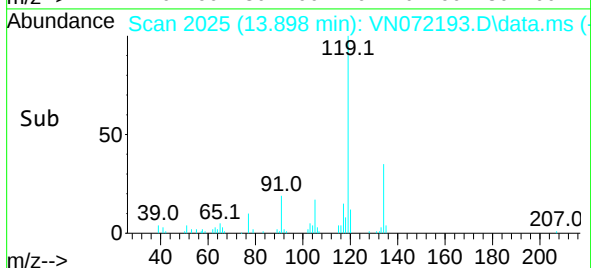
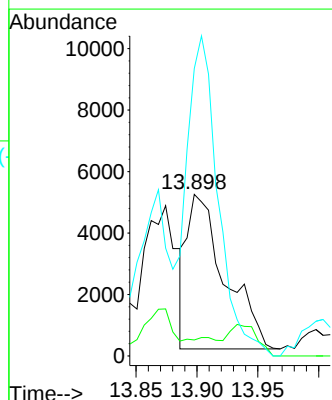
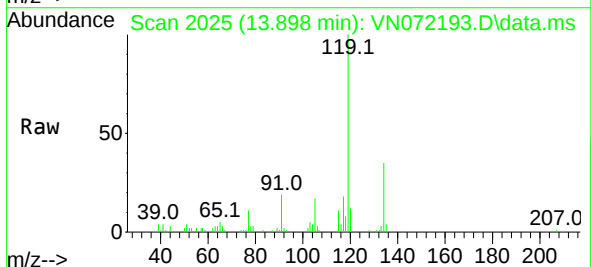
Tgt Ion: 91 Resp: 10881

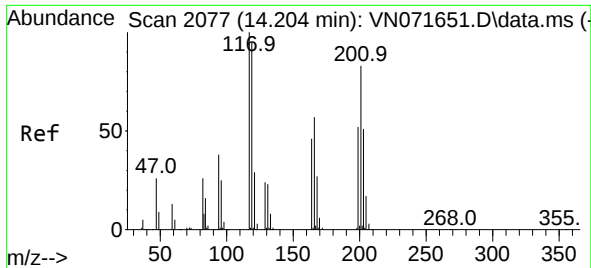
Ion Ratio Lower Upper

91 100

92 0.0 26.9 80.7#

134 173.7 13.6 40.8#

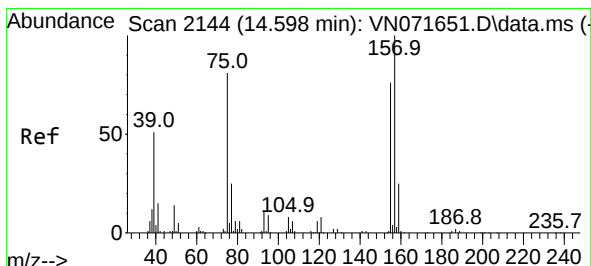
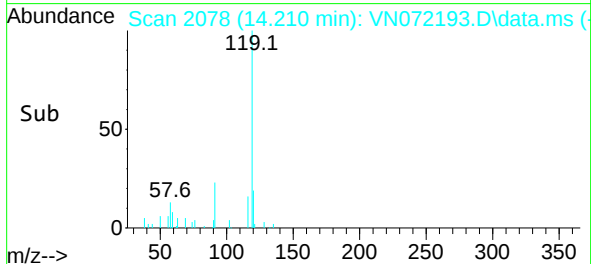
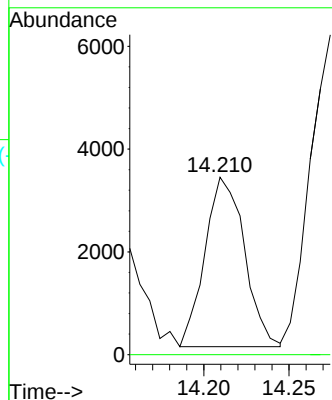
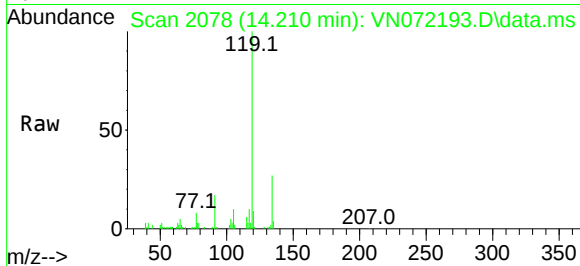




#90
Hexachloroethane
Concen: 1.160 ug/l
RT: 14.210 min Scan# 2077
Delta R.T. 0.006 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

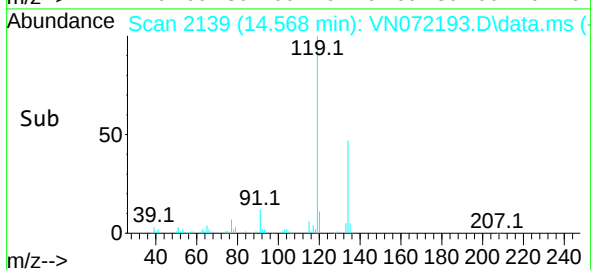
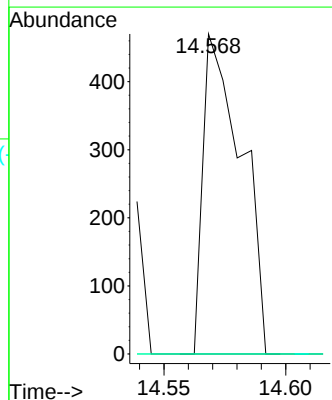
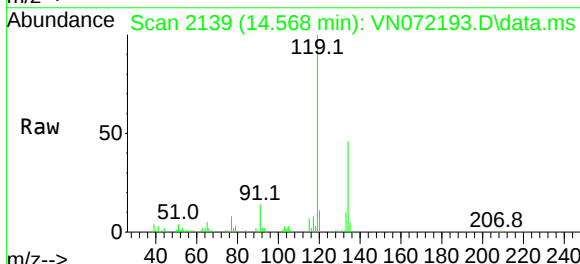
Instrument :
MSVOA_N
ClientSampleId :
33659

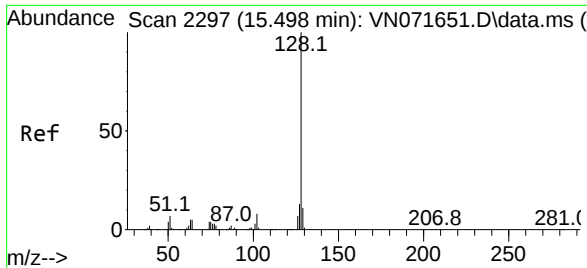
Tgt Ion:117 Resp: 5316
Ion Ratio Lower Upper
117 100
201 0.0 40.6 122.0#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.298 ug/l
RT: 14.568 min Scan# 2139
Delta R.T. -0.030 min
Lab File: VN072193.D
Acq: 25 Apr 2022 20:42

Tgt Ion: 75 Resp: 515
Ion Ratio Lower Upper
75 100
155 0.0 44.9 134.5#
157 0.0 59.0 176.8#





#95

Naphthalene

Concen: 4.460 ug/l

RT: 15.498 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN072193.D

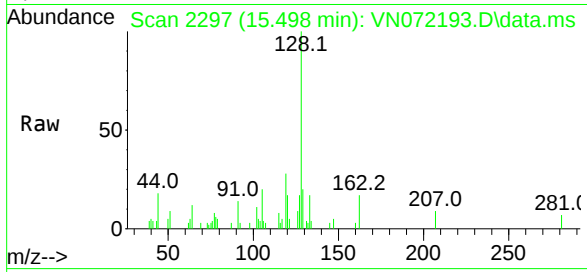
Acq: 25 Apr 2022 20:42

Instrument :

MSVOA_N

ClientSampleId :

33659



Tgt Ion:128 Resp: 12860

Ion Ratio Lower Upper

128 100

127 18.5 10.3 15.5#

129 7.5 8.6 13.0#

