

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072021\
 Data File : VW019521.D
 Acq On : 20 Jul 2021 19:22
 Operator : SY/VA
 Sample : M3051-08
 Misc : 5.00g/5.0mL/MSVOA_W/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 41213

Quant Time: Jul 21 02:06:45 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W071921S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 20 04:37:55 2021
 Response via : Initial Calibration

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

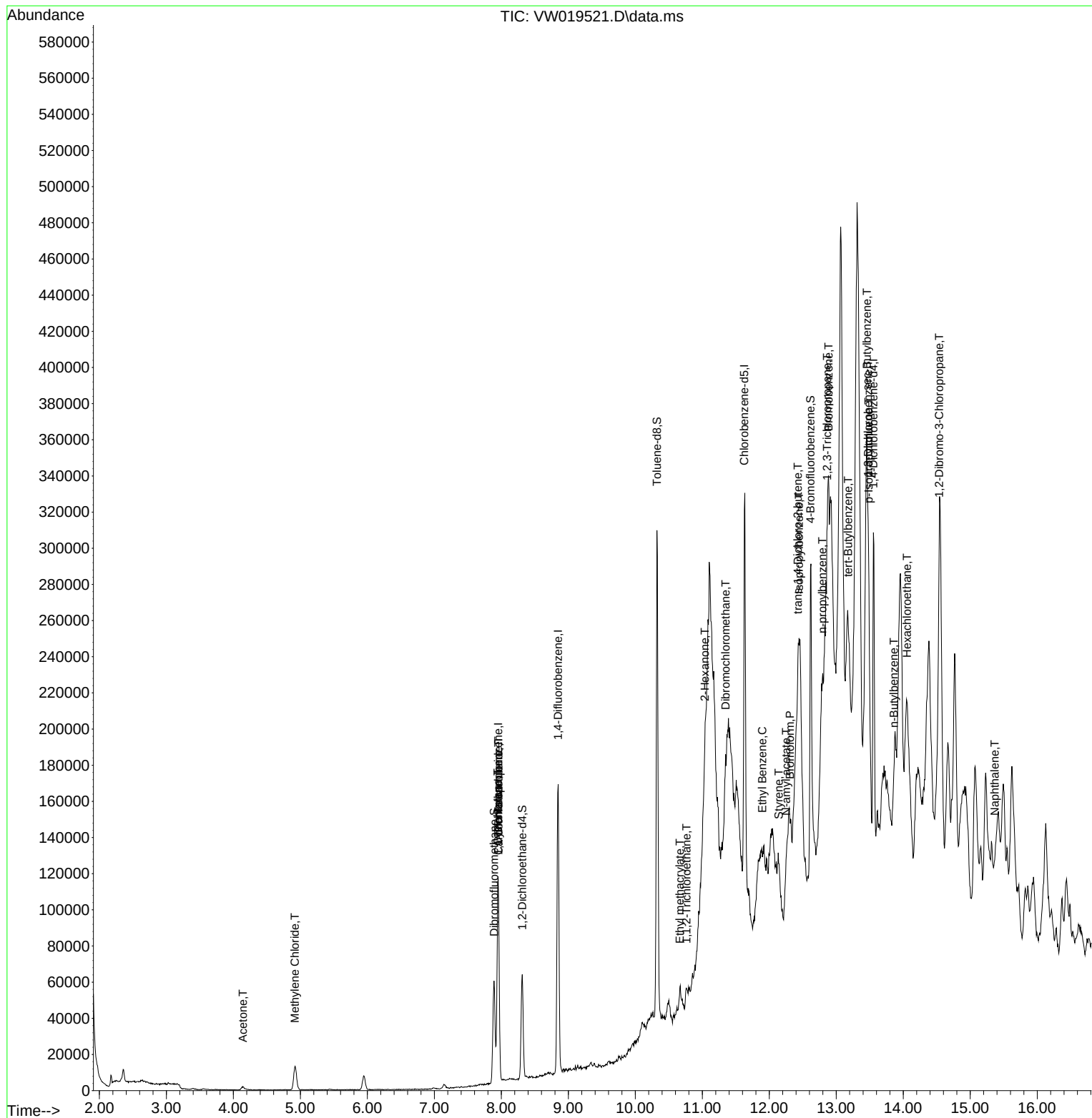
Internal Standards						
1) Pentafluorobenzene	7.952	168	83912	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.848	114	136480	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.628	117	124597	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.554	152	49285	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.311	65	47205	58.952	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 117.900%			
35) Dibromofluoromethane	7.891	113	41871	50.215	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.420%			
50) Toluene-d8	10.323	98	173235	53.659	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 107.320%			
62) 4-Bromofluorobenzene	12.615	95	60726	50.145	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 100.300%			
Target Compounds					Qvalue	
16) Acetone	4.141	43	4261	27.921	ug/l	91
20) Methylene Chloride	4.916	84	10276	6.238	ug/l	91
31) Cyclohexane	7.946	56	2150	1.219	ug/l #	13
36) 1,1-Dichloropropene	7.958	75	6885	4.732	ug/l #	43
38) Carbon Tetrachloride	7.958	117	8699	6.844	ug/l #	18
55) 1,1,2-Trichloroethane	10.762	97	2998	4.080	ug/l #	19
56) Ethyl methacrylate	10.665	69	1300	1.351	ug/l #	1
59) 2-Hexanone	11.036	43	2177	5.581	ug/l	75
60) Dibromochloromethane	11.347	129	1252	1.551	ug/l	83
67) Ethyl Benzene	11.896	91	25246	5.204	ug/l #	59
70) Styrene	12.140	104	5580	1.905	ug/l #	28
71) Bromoform	12.311	173	5938	13.065	ug/l #	32
73) Isopropylbenzene	12.445	105	18779	5.015	ug/l #	49
74) N-amyl acetate	12.250	43	2078	2.425	ug/l #	49
76) 1,2,3-Trichloropropane	12.865	75	7176	14.732	ug/l #	100
77) Bromobenzene	12.884	156	259439	307.351	ug/l #	1
78) n-propylbenzene	12.792	91	19473	4.159	ug/l #	53
81) trans-1,4-Dichloro-2-b...	12.426	75	2214	10.359	ug/l #	37
83) tert-Butylbenzene	13.176	119	38878	14.351	ug/l #	48
85) sec-Butylbenzene	13.457	105	38565	9.262	ug/l #	57
86) p-Isopropyltoluene	13.481	119	16434	4.789	ug/l #	50
87) 1,3-Dichlorobenzene	13.475	146	4533	2.624	ug/l #	27
89) n-Butylbenzene	13.859	91	4938	1.470	ug/l #	56
90) Hexachloroethane	14.054	117	4255	7.034	ug/l #	16
92) 1,2-Dibromo-3-Chloropr...	14.536	75	3736	31.997	ug/l #	1
95) Naphthalene	15.365	128	2733	1.455	ug/l #	77

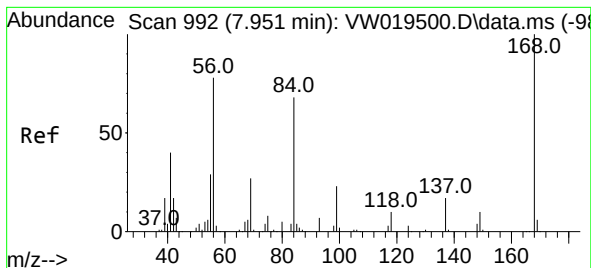
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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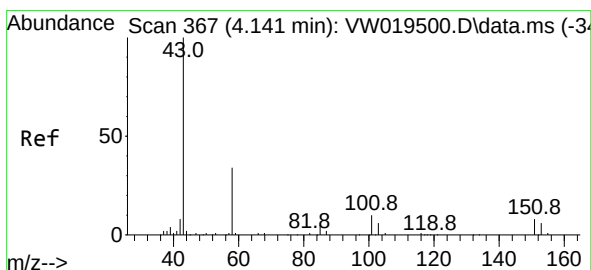
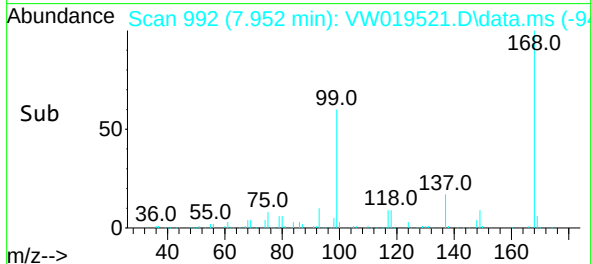
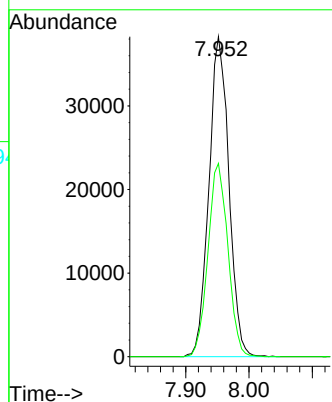
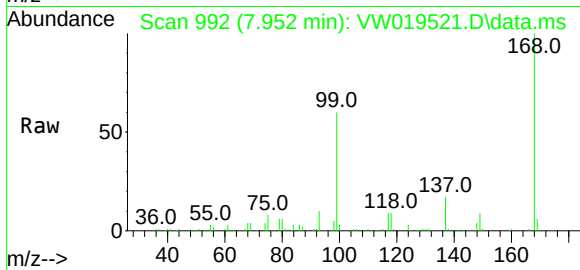




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.952 min Scan# 992
Delta R.T. 0.001 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

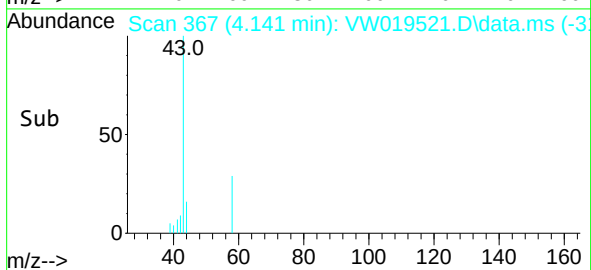
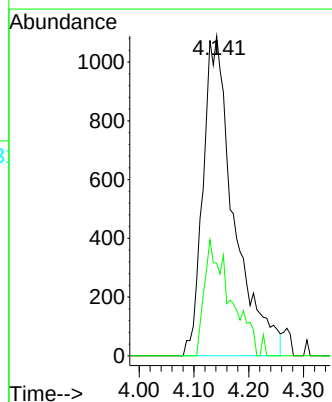
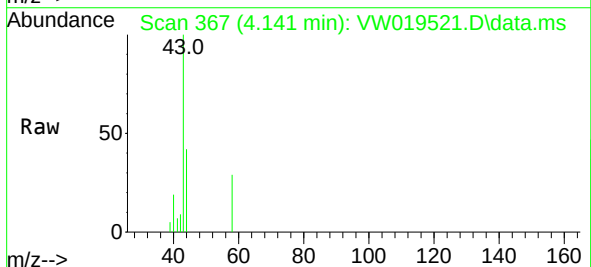
Instrument :
MSVOA_W
ClientSampleId :
41213

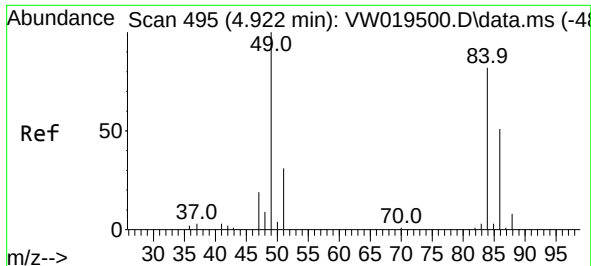
Tgt Ion:168 Resp: 83912
Ion Ratio Lower Upper
168 100
99 60.4 51.9 77.9



#16
Acetone
Concen: 27.921 ug/l
RT: 4.141 min Scan# 367
Delta R.T. 0.000 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

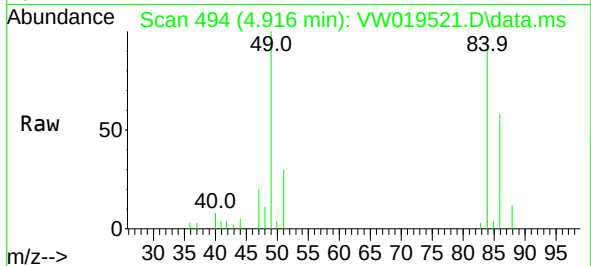
Tgt Ion: 43 Resp: 4261
Ion Ratio Lower Upper
43 100
58 28.9 27.2 40.8



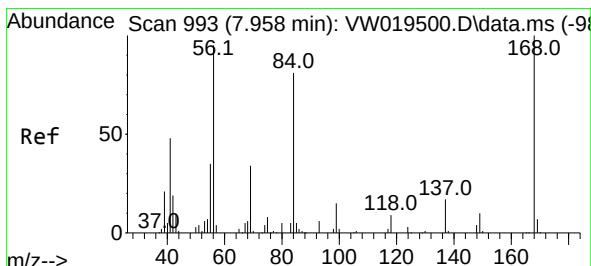
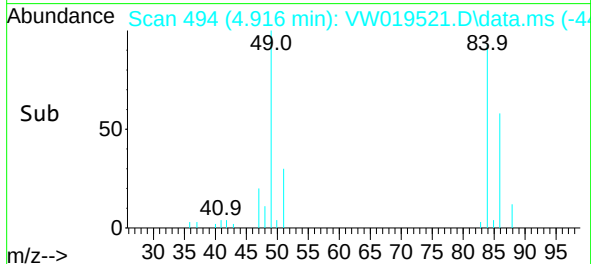
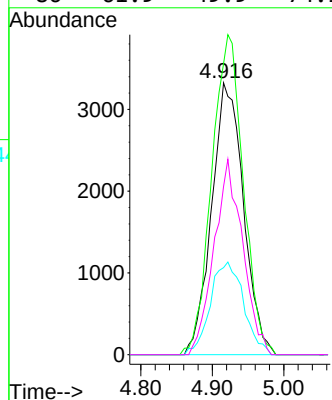


#20
Methylene Chloride
Concen: 6.238 ug/l
RT: 4.916 min Scan# 494
Delta R.T. -0.006 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

Instrument :
MSVOA_W
ClientSampled :
41213

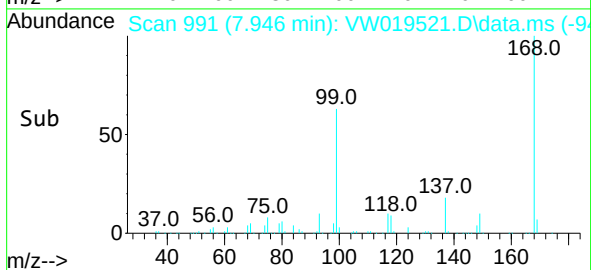
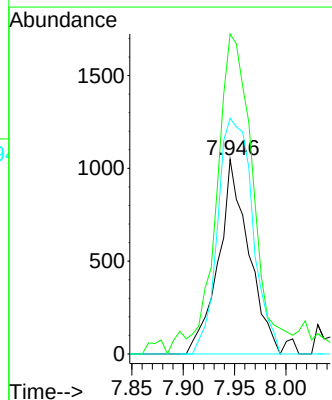
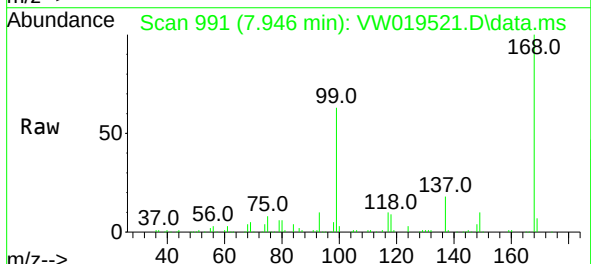


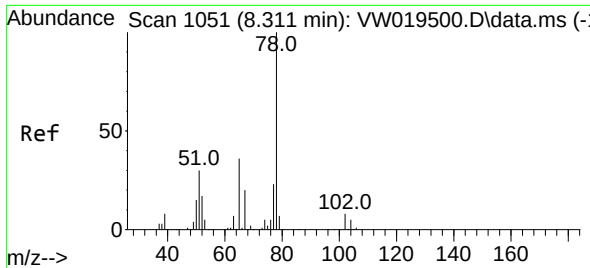
Tgt Ion:	84	Resp:	10276
Ion	Ratio	Lower	Upper
84	100		
49	107.0	97.2	145.8
51	32.0	30.1	45.1
86	61.9	49.9	74.9



#31
Cyclohexane
Concen: 1.219 ug/l
RT: 7.946 min Scan# 991
Delta R.T. -0.012 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

Tgt Ion:	56	Resp:	2150
Ion	Ratio	Lower	Upper
56	100		
69	153.0	28.3	42.5#
84	121.2	68.1	102.1#

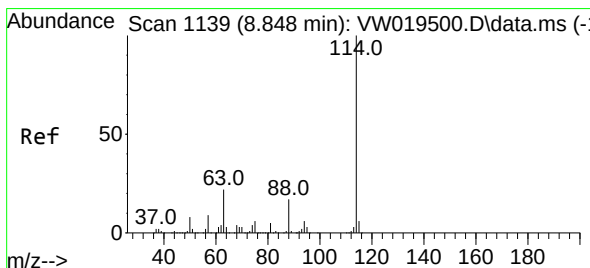
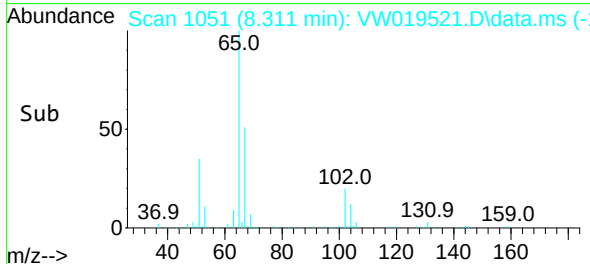
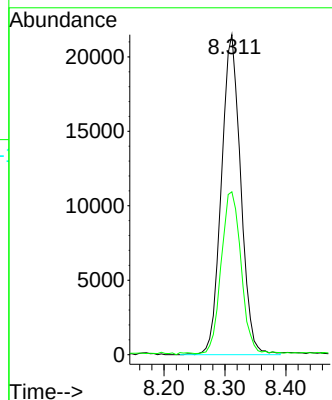
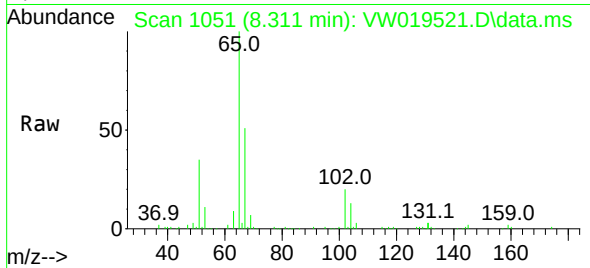




#33
1,2-Dichloroethane-d4
Concen: 58.952 ug/l
RT: 8.311 min Scan# 1051
Delta R.T. 0.000 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

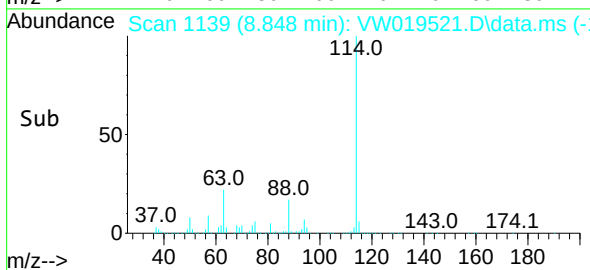
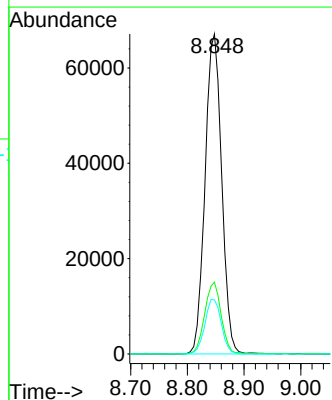
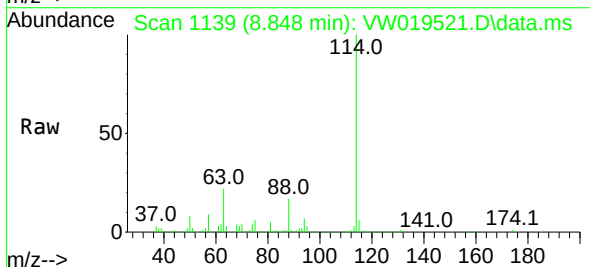
Instrument :
MSVOA_W
ClientSampled :
41213

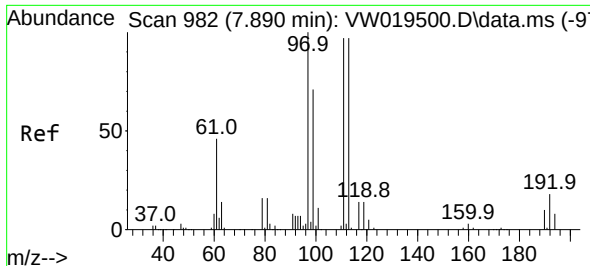
Tgt Ion: 65 Resp: 47205
Ion Ratio Lower Upper
65 100
67 52.0 0.0 107.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.848 min Scan# 1139
Delta R.T. 0.000 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

Tgt Ion: 114 Resp: 136480
Ion Ratio Lower Upper
114 100
63 22.4 0.0 43.8
88 16.9 0.0 33.4

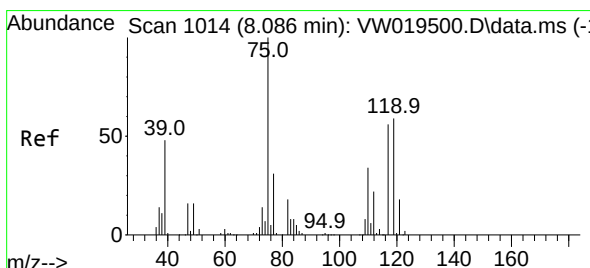
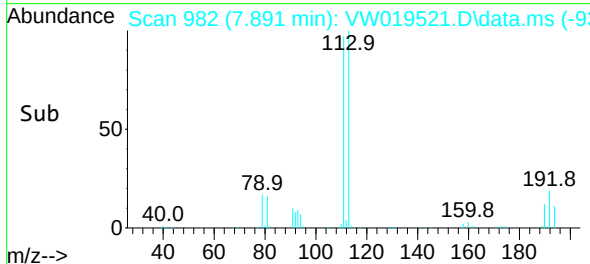
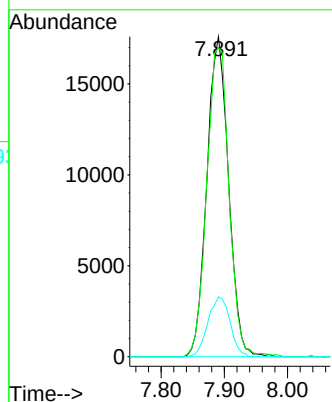
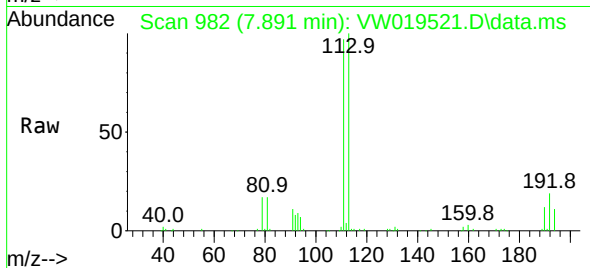




#35
Dibromofluoromethane
Concen: 50.215 ug/l
RT: 7.891 min Scan# 982
Delta R.T. 0.001 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

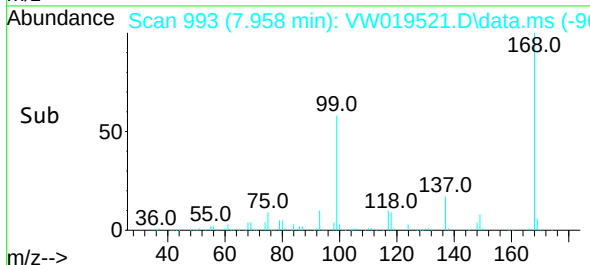
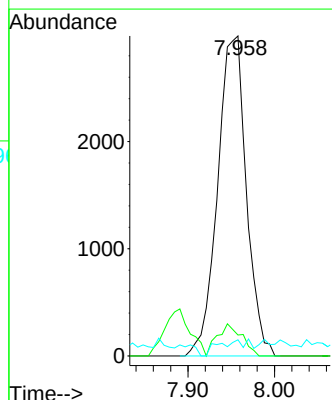
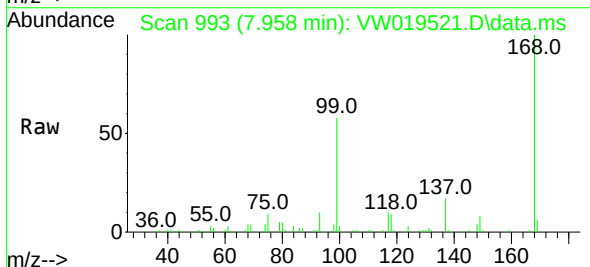
Instrument :
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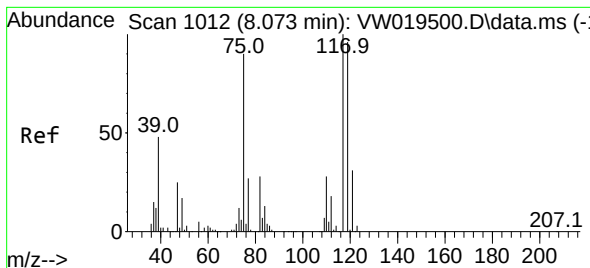
Tgt Ion:113 Resp: 41871
Ion Ratio Lower Upper
113 100
111 99.8 83.8 125.6
192 19.1 15.4 23.2



#36
1,1-Dichloropropene
Concen: 4.732 ug/l
RT: 7.958 min Scan# 993
Delta R.T. -0.128 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

Tgt Ion: 75 Resp: 6885
Ion Ratio Lower Upper
75 100
110 0.0 16.6 49.7#
77 0.6 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.844 ug/l

RT: 7.958 min Scan# 993

Delta R.T. -0.116 min

Lab File: VW019521.D

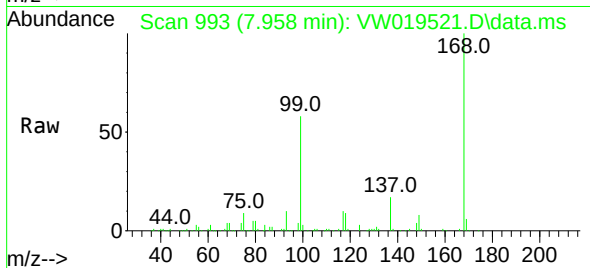
Acq: 20 Jul 2021 19:22

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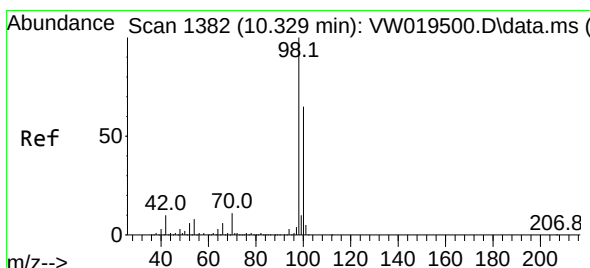
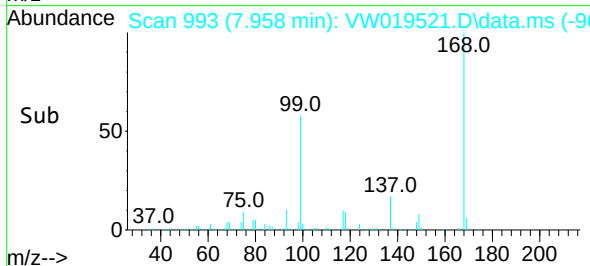
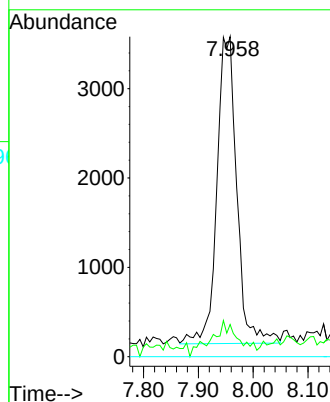
Tgt Ion:117 Resp: 8699

Ion Ratio Lower Upper

117 100

119 7.9 76.7 115.1#

121 0.0 24.8 37.2#



#50

Toluene-d8

Concen: 53.659 ug/l

RT: 10.323 min Scan# 1381

Delta R.T. -0.006 min

Lab File: VW019521.D

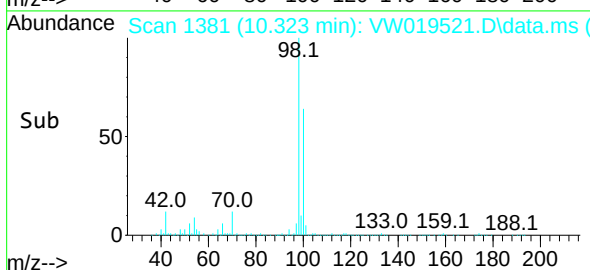
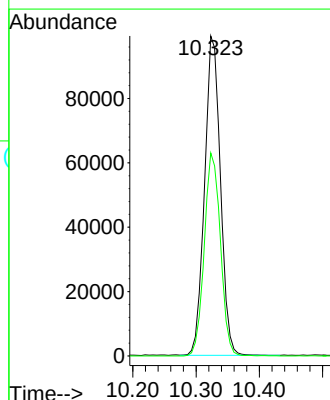
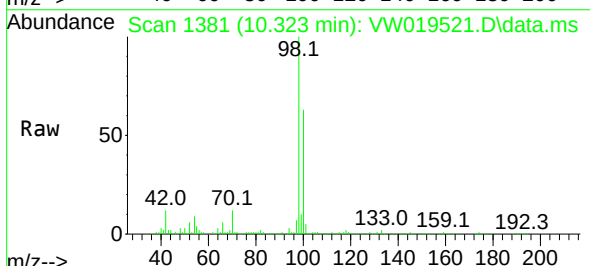
Acq: 20 Jul 2021 19:22

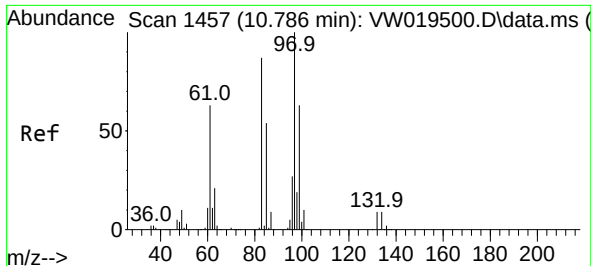
Tgt Ion: 98 Resp: 173235

Ion Ratio Lower Upper

98 100

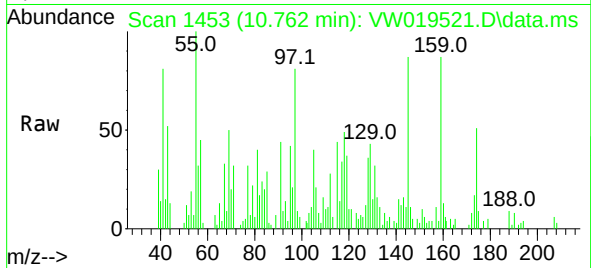
100 64.7 52.2 78.4



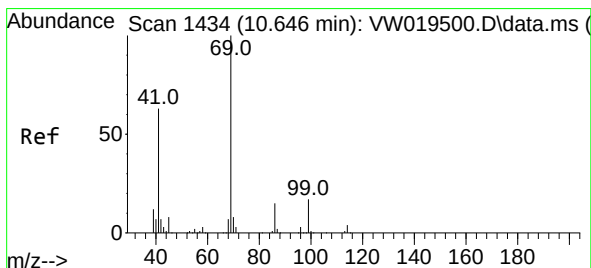
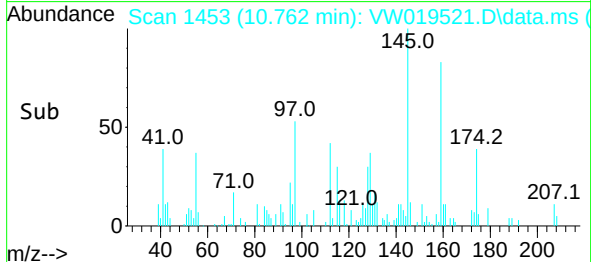
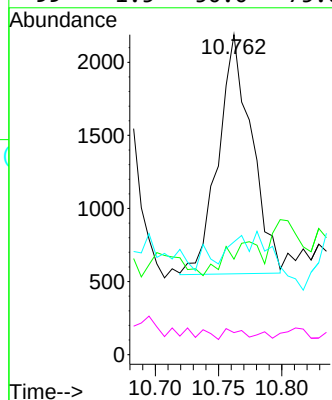


#55
1,1,2-Trichloroethane
Concen: 4.080 ug/l
RT: 10.762 min Scan# 1453
Delta R.T. -0.024 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

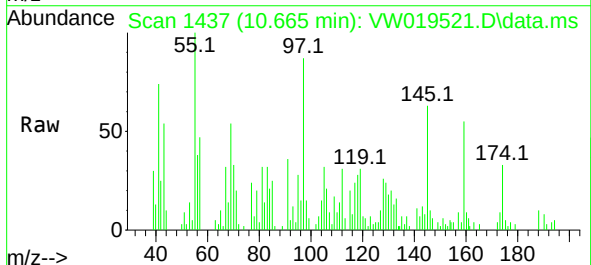
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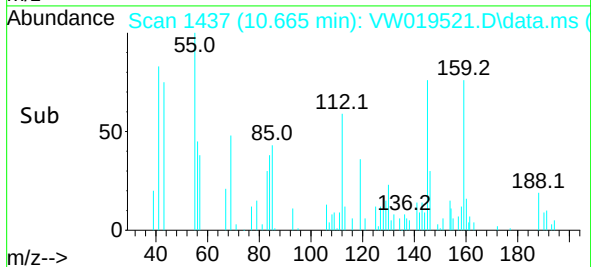
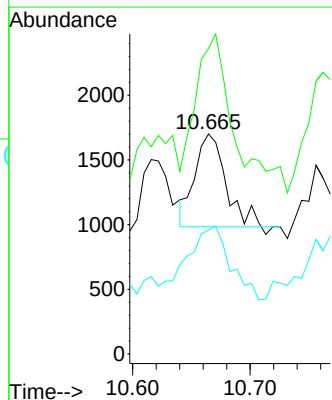
Tgt Ion:	97	Resp:	2998
Ion	Ratio	Lower	Upper
97	100		
83	0.0	69.4	104.2#
85	10.4	43.3	64.9#
99	1.5	50.0	75.0#

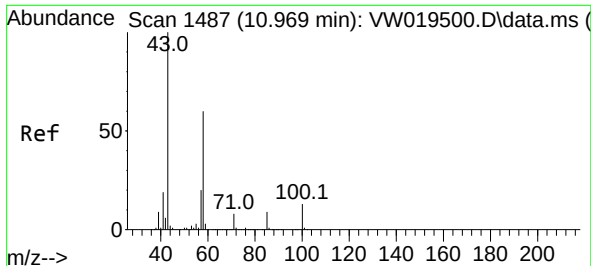


#56
Ethyl methacrylate
Concen: 1.351 ug/l
RT: 10.665 min Scan# 1437
Delta R.T. 0.018 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22



Tgt Ion:	69	Resp:	1300
Ion	Ratio	Lower	Upper
69	100		
41	212.8	51.0	76.6#
39	113.2	23.9	35.9#

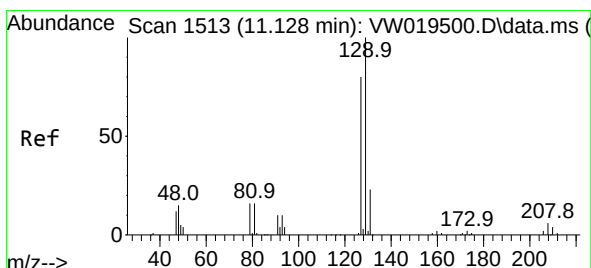
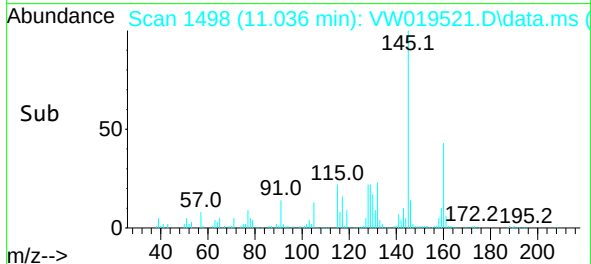
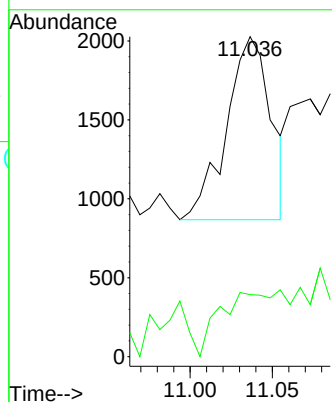
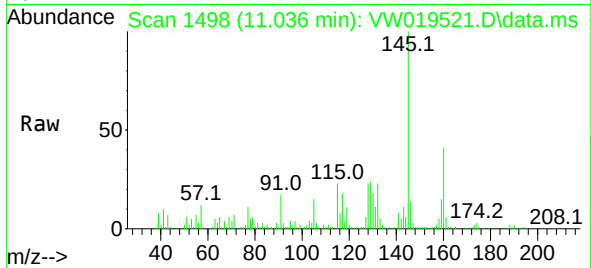




#59
2-Hexanone
Concen: 5.581 ug/l
RT: 11.036 min Scan# 1498
Delta R.T. 0.067 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

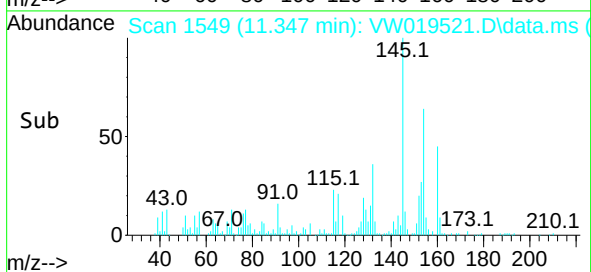
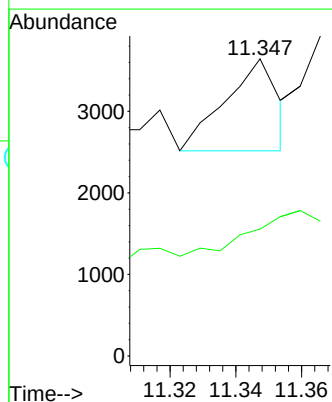
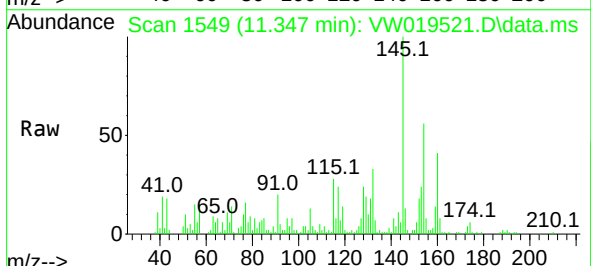
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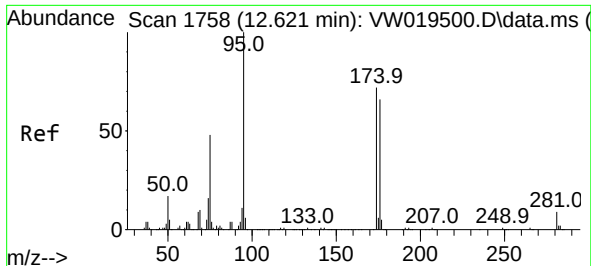
Tgt Ion: 43 Resp: 2177
Ion Ratio Lower Upper
43 100
58 40.1 29.3 87.8



#60
Dibromochloromethane
Concen: 1.551 ug/l
RT: 11.347 min Scan# 1549
Delta R.T. 0.220 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

Tgt Ion: 129 Resp: 1252
Ion Ratio Lower Upper
129 100
127 64.7 39.8 119.4

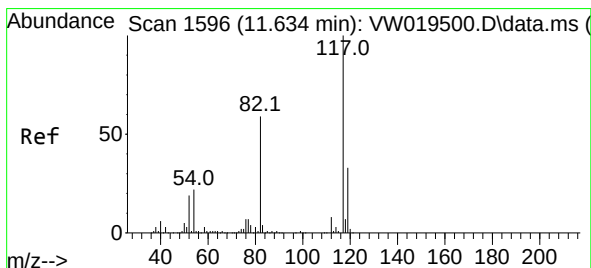
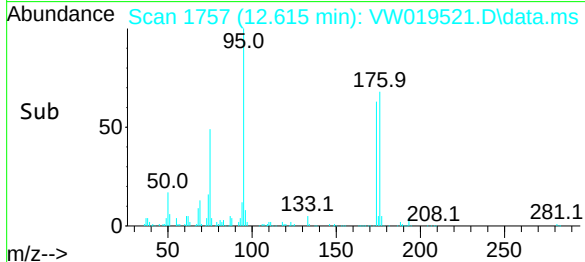
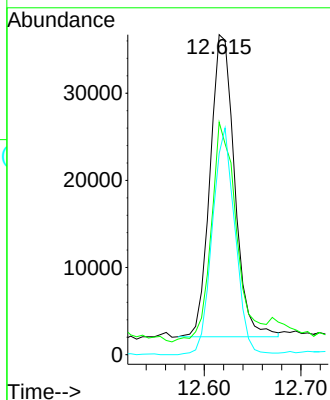
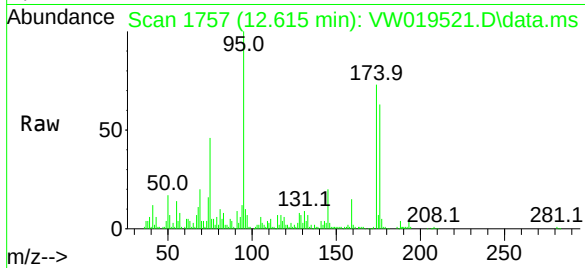




#62
4-Bromofluorobenzene
Concen: 50.145 ug/l
RT: 12.615 min Scan# 1757
Delta R.T. -0.006 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

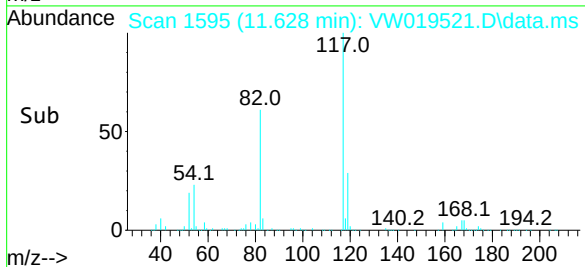
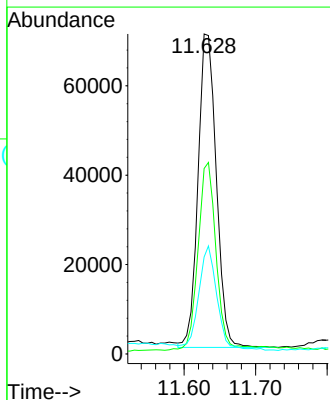
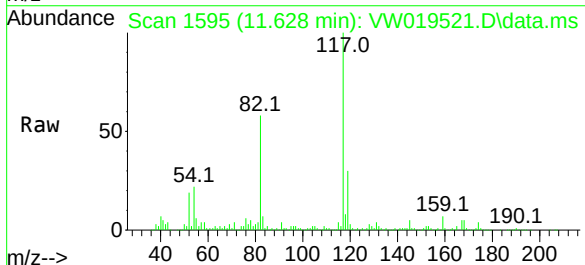
Instrument :
MSVOA_W
ClientSampled :
41213

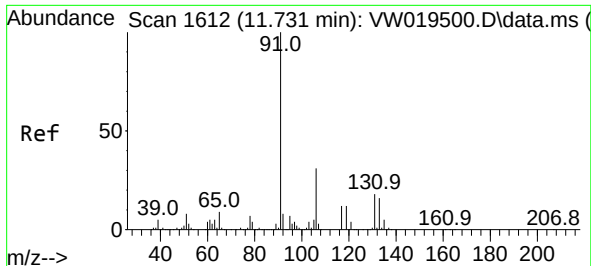
Tgt Ion: 95 Resp: 60726
Ion Ratio Lower Upper
95 100
174 75.5 0.0 146.6
176 69.8 0.0 136.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.628 min Scan# 1595
Delta R.T. -0.006 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

Tgt Ion: 117 Resp: 124597
Ion Ratio Lower Upper
117 100
82 57.6 47.4 71.0
119 29.8 26.6 39.8

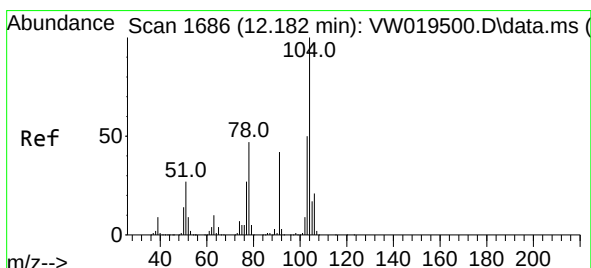
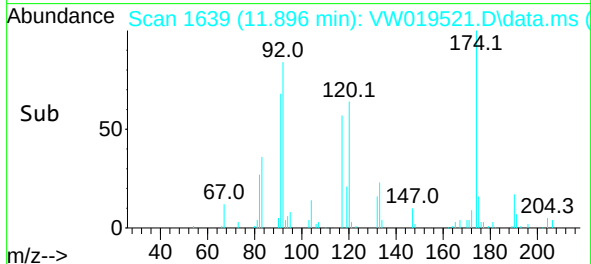
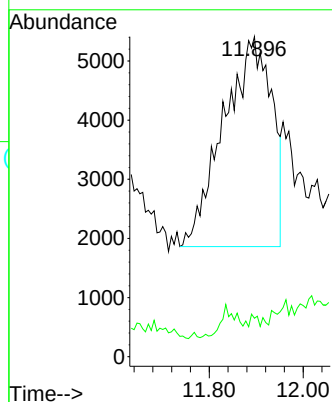
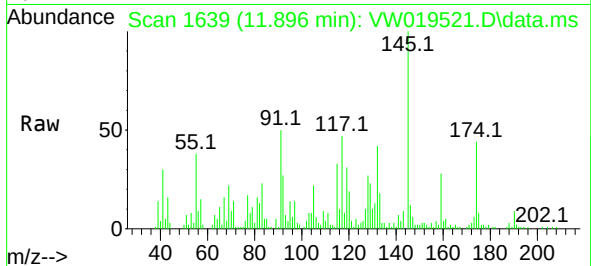




#67
Ethyl Benzene
Concen: 5.204 ug/l
RT: 11.896 min Scan# 1639
Delta R.T. 0.165 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

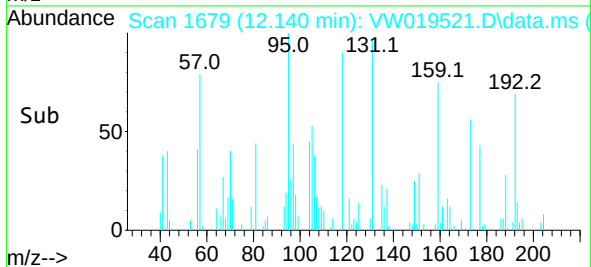
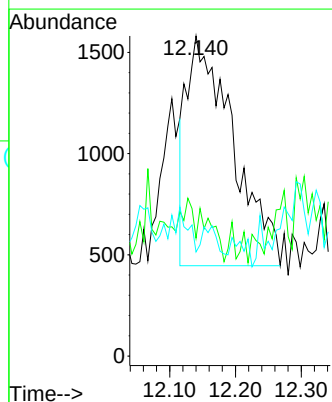
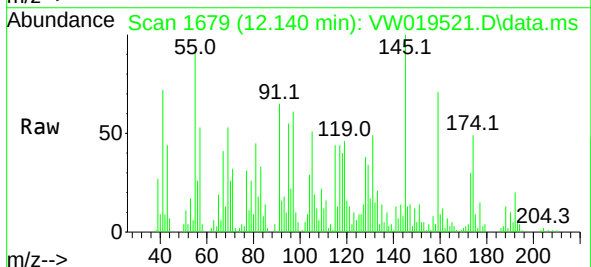
Instrument :
MSVOA_W
ClientSampled :
41213

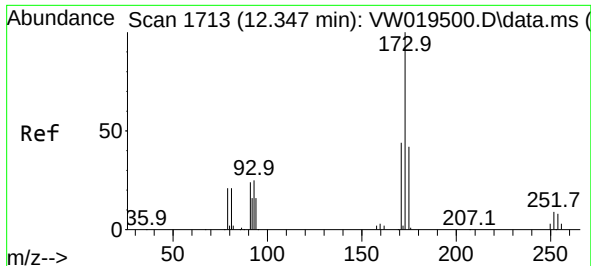
Tgt Ion: 91 Resp: 25246
Ion Ratio Lower Upper
91 100
106 8.6 24.8 37.2#



#70
Styrene
Concen: 1.905 ug/l
RT: 12.140 min Scan# 1679
Delta R.T. -0.042 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

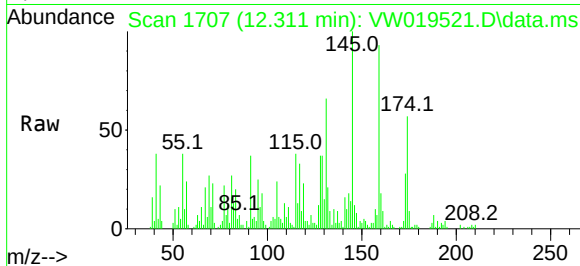
Tgt Ion:104 Resp: 5580
Ion Ratio Lower Upper
104 100
78 4.2 41.4 62.0#
103 0.0 43.3 64.9#



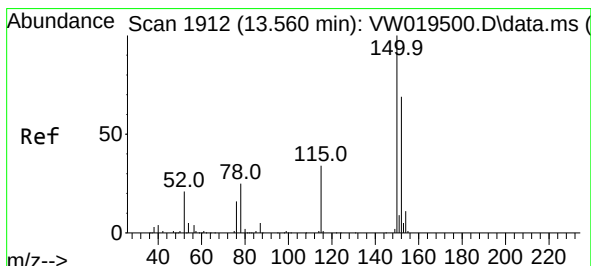
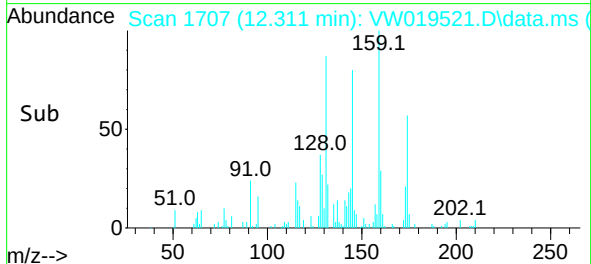
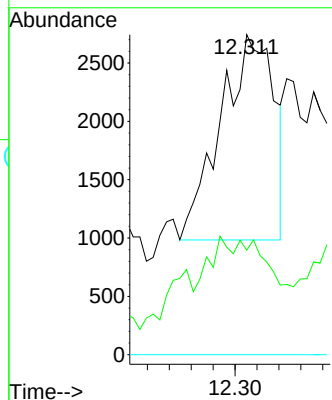


#71
Bromoform
Concen: 13.065 ug/l
RT: 12.311 min Scan# 1707
Delta R.T. -0.036 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

Instrument :
MSVOA_W
ClientSampled :
41213

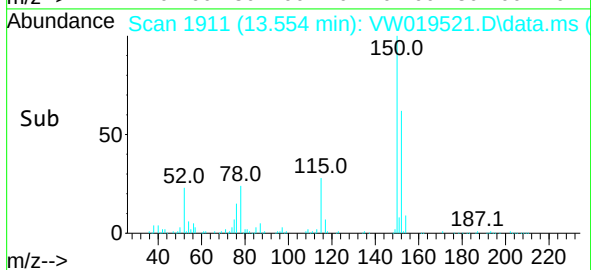
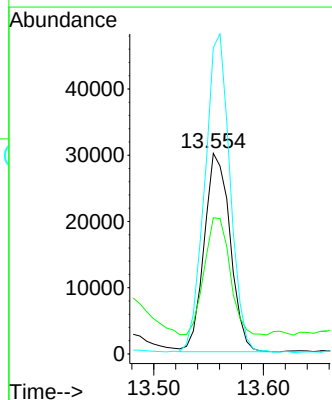
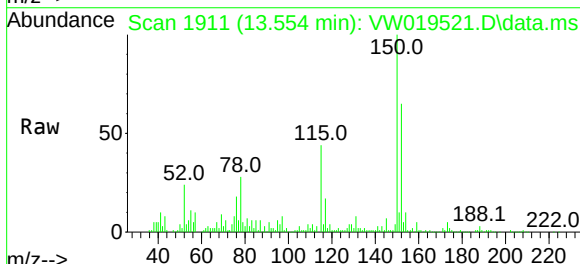


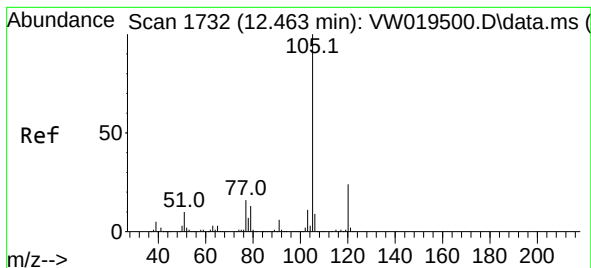
Tgt Ion:173 Resp: 5938
Ion Ratio Lower Upper
173 100
175 0.0 21.9 65.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.554 min Scan# 1911
Delta R.T. -0.006 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

Tgt Ion:152 Resp: 49285
Ion Ratio Lower Upper
152 100
115 58.0 30.6 91.8
150 156.9 0.0 342.4

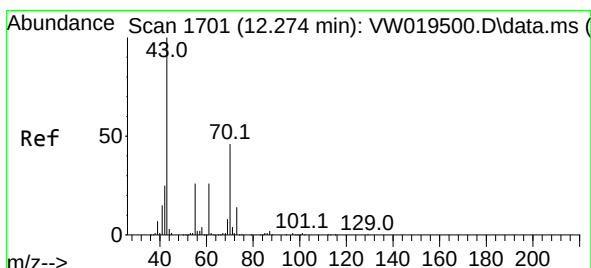
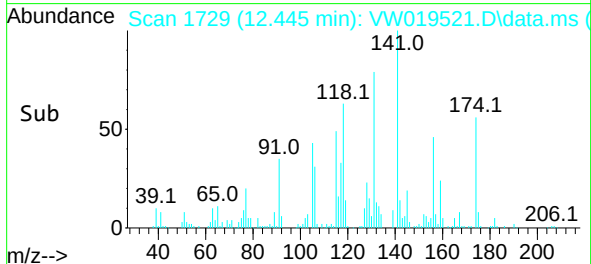
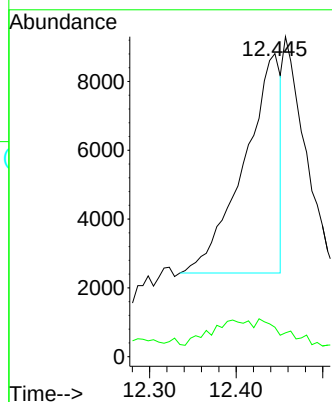
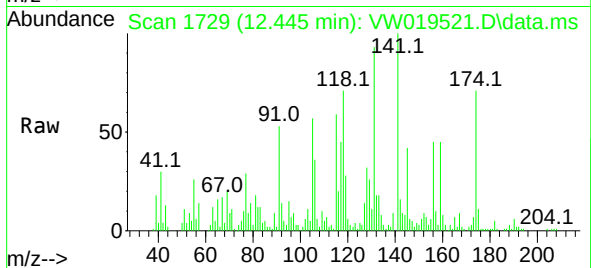




#73
Isopropylbenzene
Concen: 5.015 ug/l
RT: 12.445 min Scan# 1729
Delta R.T. -0.018 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

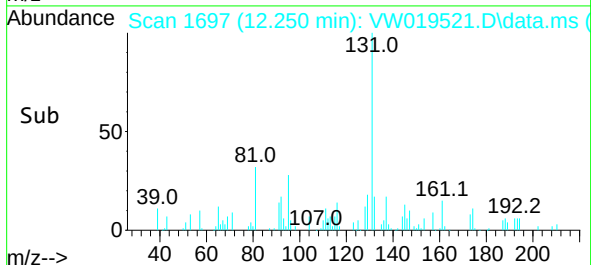
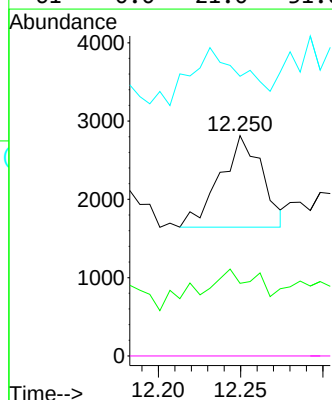
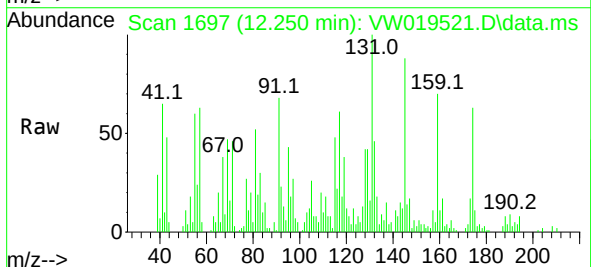
Instrument :
MSVOA_W
ClientSampled :
41213

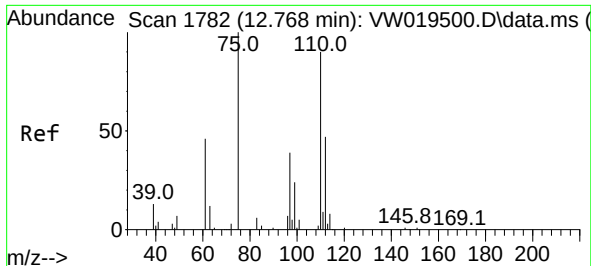
Tgt Ion:105 Resp: 18779
Ion Ratio Lower Upper
105 100
120 0.0 13.0 39.0#



#74
N-ethyl acetate
Concen: 2.425 ug/l
RT: 12.250 min Scan# 1697
Delta R.T. -0.024 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

Tgt Ion: 43 Resp: 2078
Ion Ratio Lower Upper
43 100
70 62.8 37.0 55.4#
55 75.6 21.3 31.9#
61 0.0 21.0 31.6#

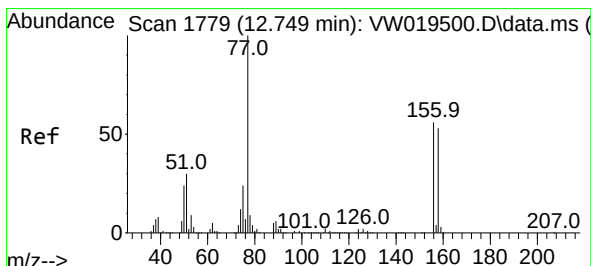
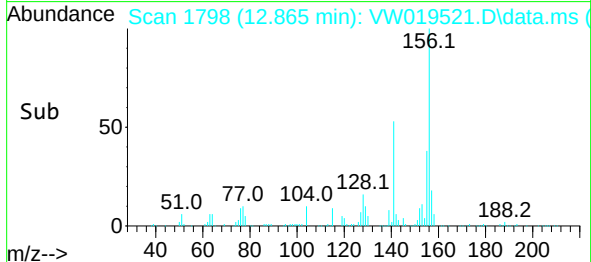
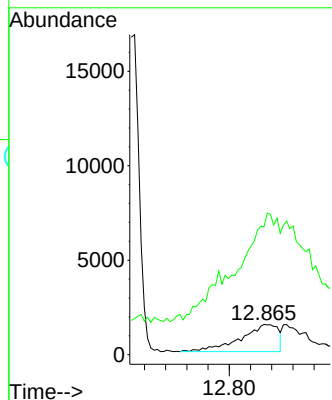
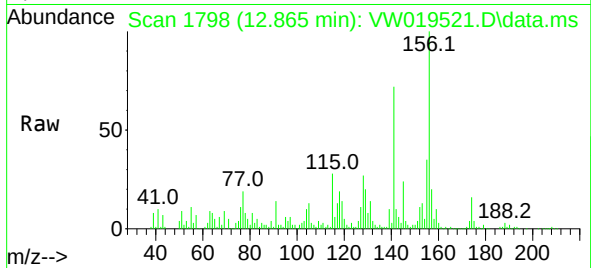




#76
1,2,3-Trichloropropane
Concen: 14.732 ug/l
RT: 12.865 min Scan# 1798
Delta R.T. 0.098 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

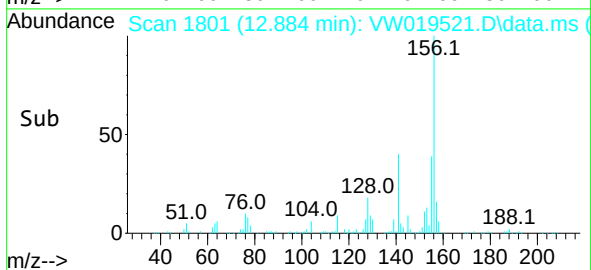
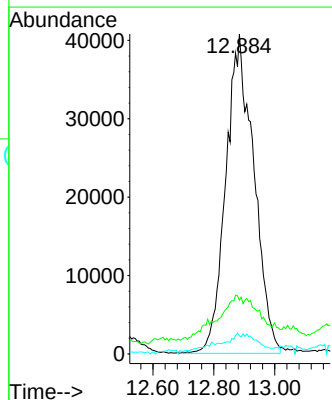
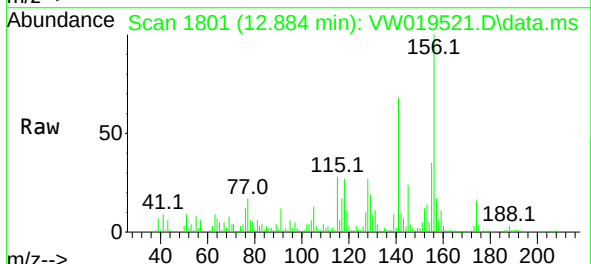
Instrument :
MSVOA_W
ClientSampled :
41213

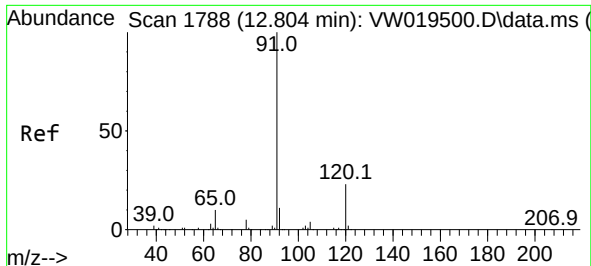
Tgt Ion: 75 Resp: 7176
Ion Ratio Lower Upper
75 100
77 122.9 0.0 0.0#



#77
Bromobenzene
Concen: 307.351 ug/l
RT: 12.884 min Scan# 1801
Delta R.T. 0.134 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

Tgt Ion: 156 Resp: 259439
Ion Ratio Lower Upper
156 100
77 3.4 102.6 307.9#
158 0.6 47.1 141.4#

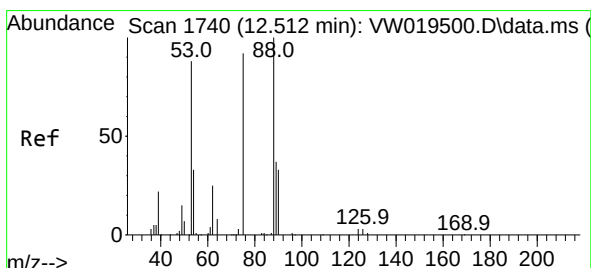
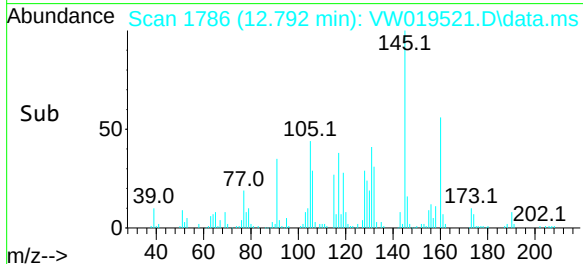
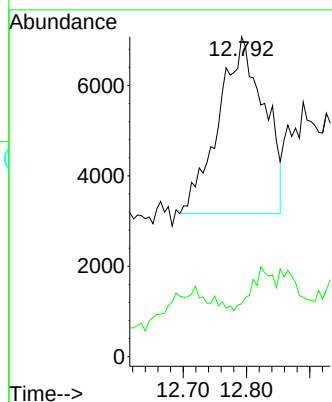
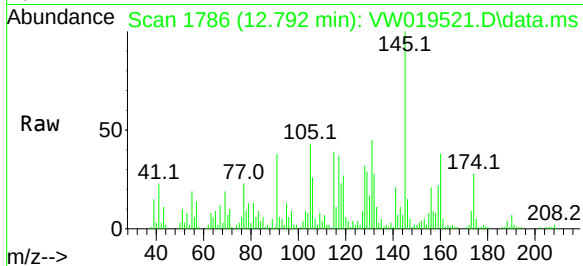




#78
n-propylbenzene
Concen: 4.159 ug/l
RT: 12.792 min Scan# 1786
Delta R.T. -0.012 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

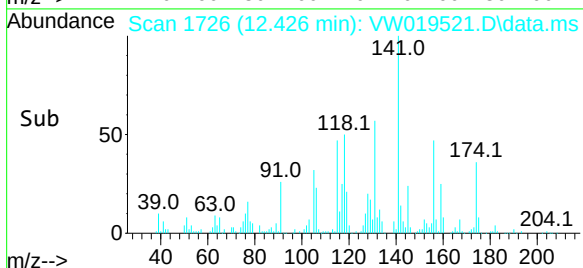
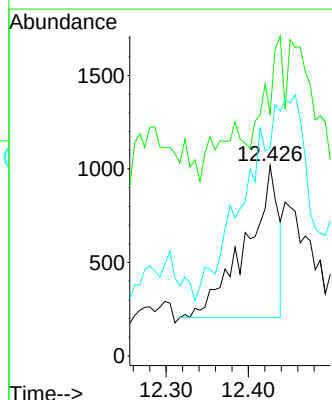
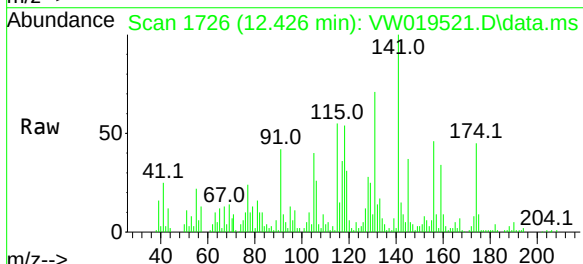
Instrument :
MSVOA_W
ClientSampled :
41213

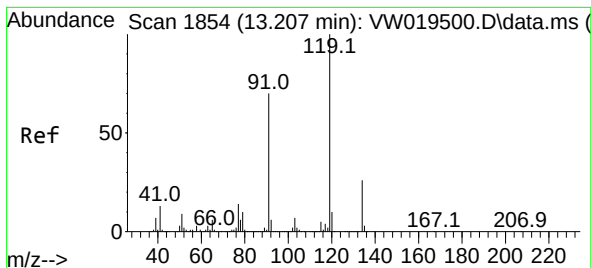
Tgt Ion: 91 Resp: 19473
Ion Ratio Lower Upper
91 100
120 0.0 11.2 33.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 10.359 ug/l
RT: 12.426 min Scan# 1726
Delta R.T. -0.085 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

Tgt Ion: 75 Resp: 2214
Ion Ratio Lower Upper
75 100
53 36.2 75.8 113.8#
89 0.0 35.7 53.5#

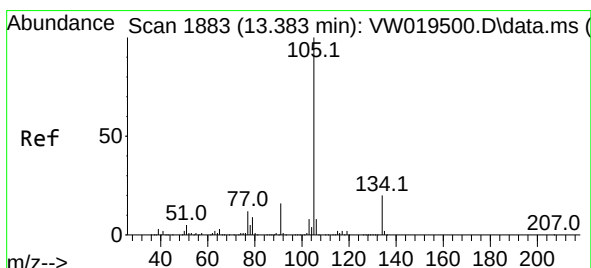
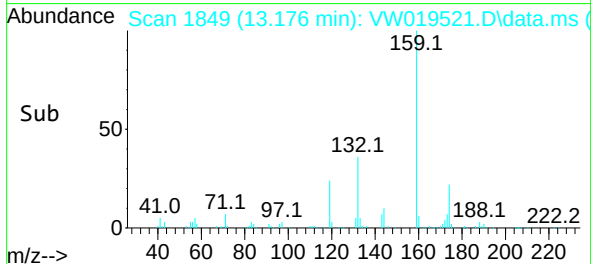
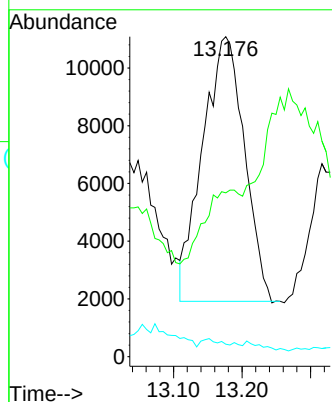
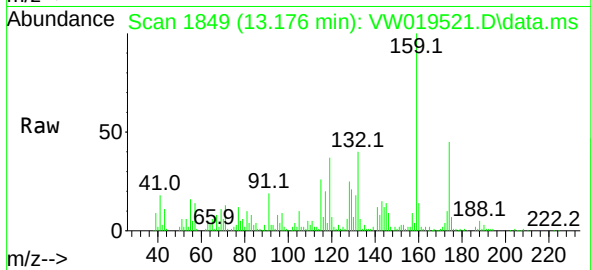




#83
tert-Butylbenzene
Concen: 14.351 ug/l
RT: 13.176 min Scan# 1849
Delta R.T. -0.030 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

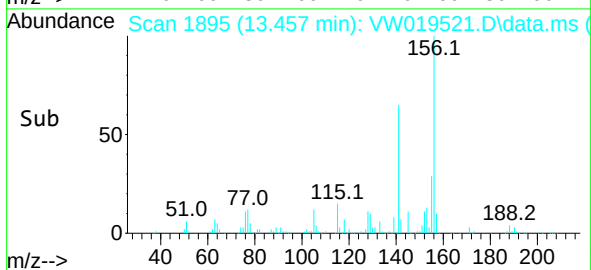
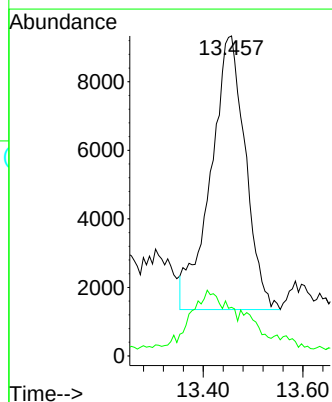
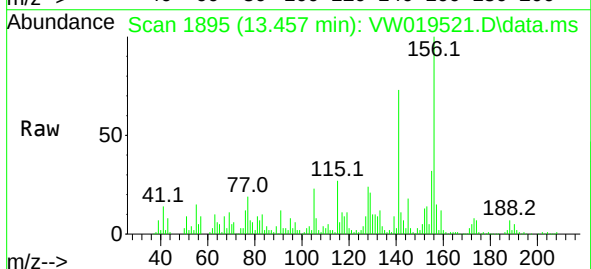
Instrument :
MSVOA_W
ClientSampled :
41213

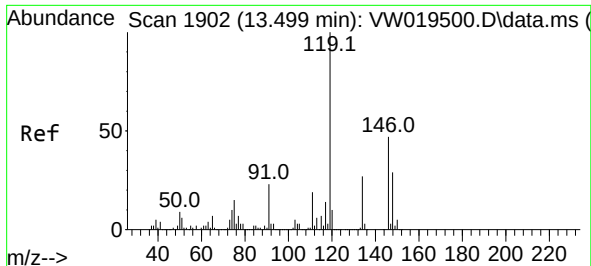
Tgt Ion:119 Resp: 38878
Ion Ratio Lower Upper
119 100
91 24.5 33.7 101.1#
134 0.0 12.4 37.0#



#85
sec-Butylbenzene
Concen: 9.262 ug/l
RT: 13.457 min Scan# 1895
Delta R.T. 0.073 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

Tgt Ion:105 Resp: 38565
Ion Ratio Lower Upper
105 100
134 0.0 9.8 29.4#

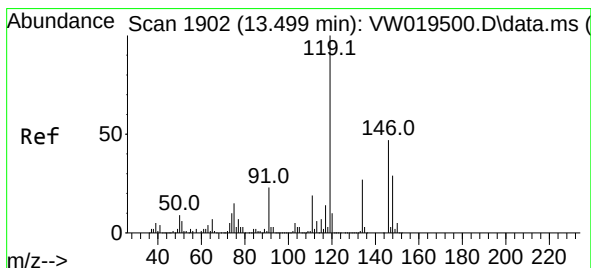
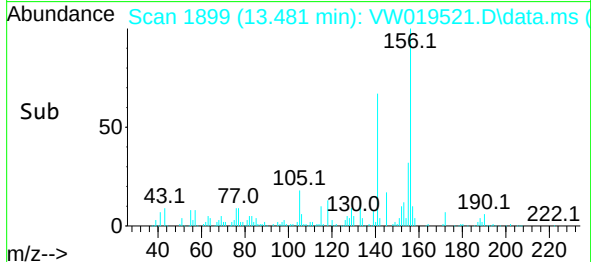
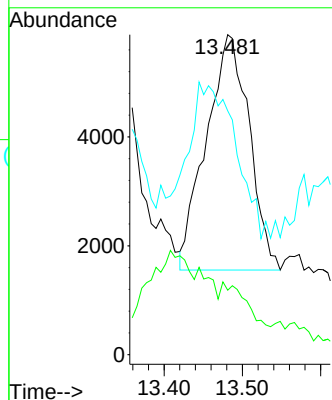
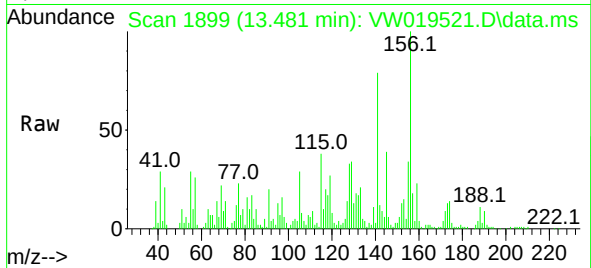




#86
p-Isopropyltoluene
Concen: 4.789 ug/l
RT: 13.481 min Scan# 1899
Delta R.T. -0.018 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

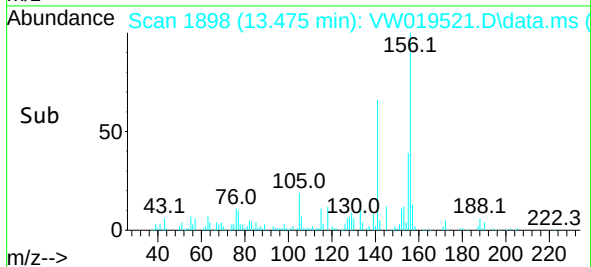
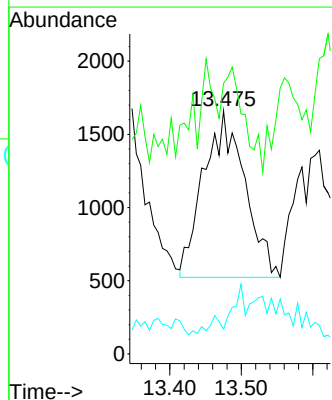
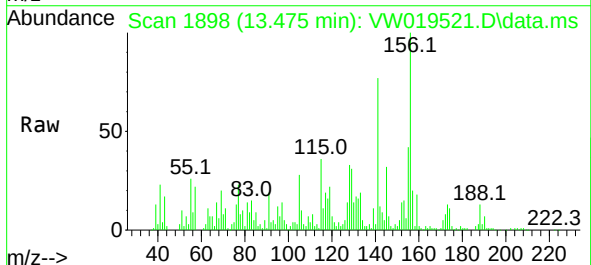
Instrument :
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ClientSampleId :
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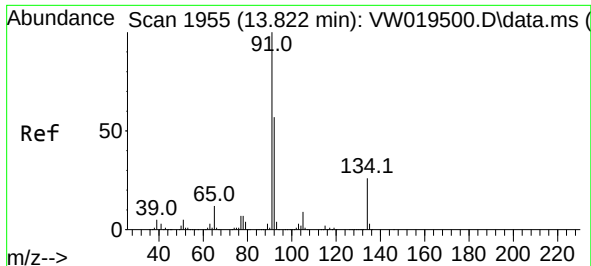
Tgt Ion:119 Resp: 16434
Ion Ratio Lower Upper
119 100
134 0.0 13.1 39.1#
91 0.0 12.1 36.3#



#87
1,3-Dichlorobenzene
Concen: 2.624 ug/l
RT: 13.475 min Scan# 1898
Delta R.T. -0.024 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

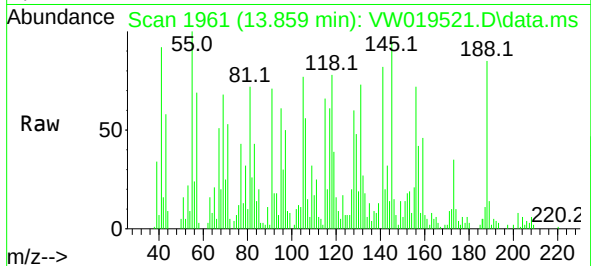
Tgt Ion:146 Resp: 4533
Ion Ratio Lower Upper
146 100
111 0.0 20.8 62.2#
148 2.8 31.3 93.9#



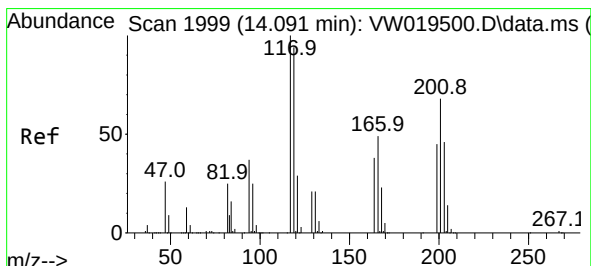
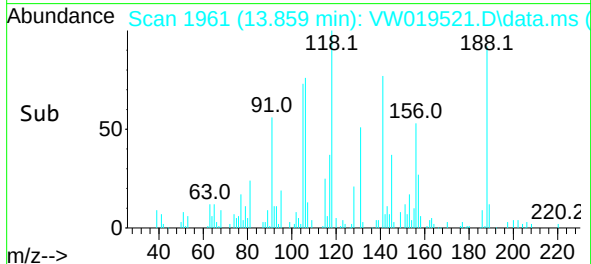
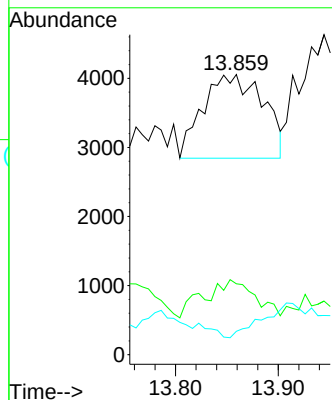


#89
n-Butylbenzene
Concen: 1.470 ug/l
RT: 13.859 min Scan# 1961
Delta R.T. 0.037 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

Instrument :
MSVOA_W
ClientSampled :
41213

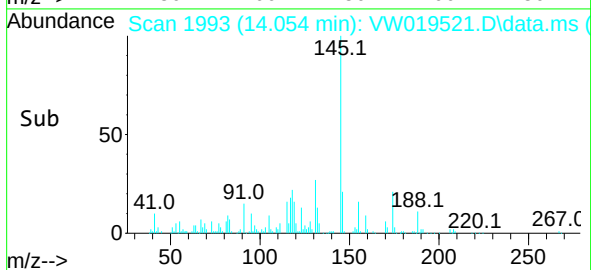
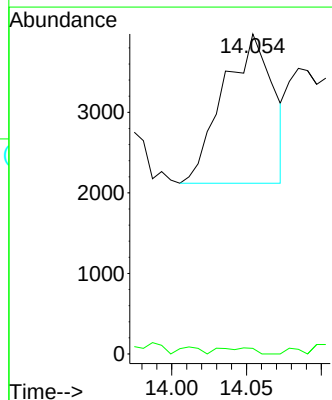
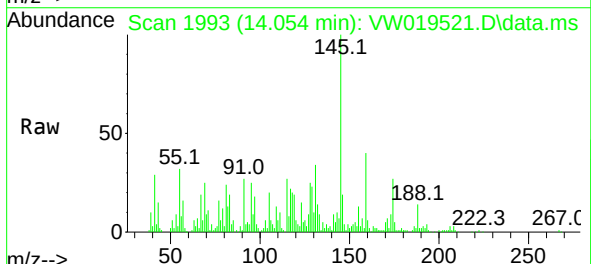


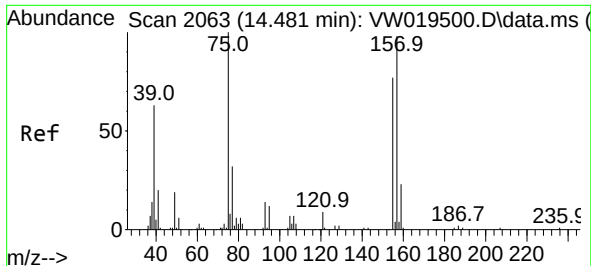
Tgt Ion: 91 Resp: 4938
Ion Ratio Lower Upper
91 100
92 25.3 27.7 83.1#
134 0.0 12.7 38.1#



#90
Hexachloroethane
Concen: 7.034 ug/l
RT: 14.054 min Scan# 1993
Delta R.T. -0.036 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

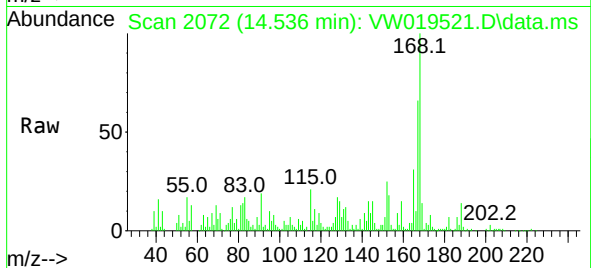
Tgt Ion: 117 Resp: 4255
Ion Ratio Lower Upper
117 100
201 2.9 37.2 111.6#



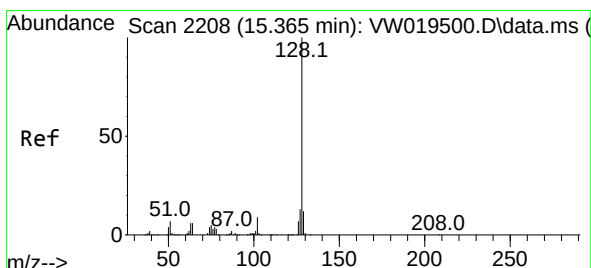
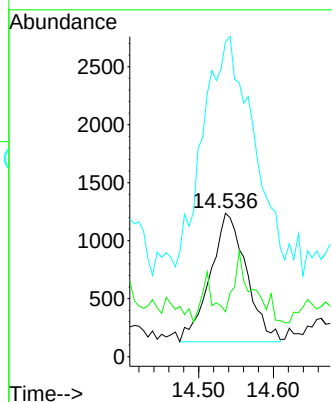
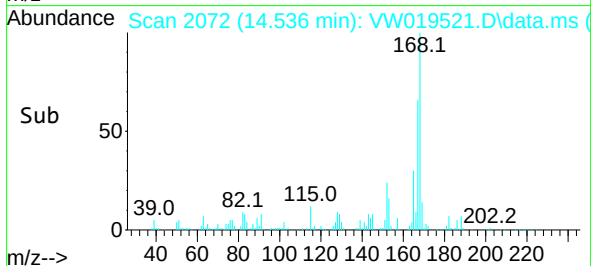


#92
1,2-Dibromo-3-Chloropropane
Concen: 31.997 ug/l
RT: 14.536 min Scan# 2072
Delta R.T. 0.055 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22

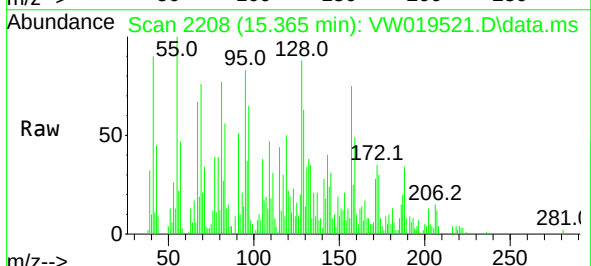
Instrument :
MSVOA_W
ClientSampleId :
41213



Tgt Ion: 75 Resp: 3736
Ion Ratio Lower Upper
75 100
155 29.0 38.4 115.2#
157 241.7 48.9 146.6#



#95
Naphthalene
Concen: 1.455 ug/l
RT: 15.365 min Scan# 2208
Delta R.T. 0.000 min
Lab File: VW019521.D
Acq: 20 Jul 2021 19:22



Tgt Ion: 128 Resp: 2733
Ion Ratio Lower Upper
128 100
127 19.7 10.2 15.2#
129 0.0 8.8 13.2#

