

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW021121\
 Data File : VW018077.D
 Acq On : 11 Feb 2021 11:24
 Operator : SY/VA
 Sample : M1370-01
 Misc : 5.00G/10ML/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 DBG6

Quant Time: Feb 12 02:38:40 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SOM2WLM012921S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Feb 12 02:37:00 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	410660	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.634	117	360321	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.554	152	192181	25.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.355	65	96881	18.98	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery =	75.92%		
7) Chloroethane-d5	2.885	69	81052	20.01	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery =	80.04%		
10) 1,1-Dichloroethene-d2	4.019	63	198344	19.44	ug/L	0.00
Spiked Amount 25.000	Range 45 - 110		Recovery =	77.76%		
20) 2-Butanone-d5	7.067	46	46080	33.83	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery =	67.66%		
24) Chloroform-d	7.647	84	241097	22.37	ug/L	0.00
Spiked Amount 25.000	Range 40 - 150		Recovery =	89.48%		
26) 1,2-Dichloroethane-d4	8.305	65	117830	20.53	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	82.12%		
29) Benzene-d6	8.275	84	472507	23.88	ug/L	0.00
Spiked Amount 25.000	Range 20 - 135		Recovery =	95.52%		
33) 1,2-Dichloropropane-d6	9.274	67	130080	23.51	ug/L	0.00
Spiked Amount 25.000	Range 70 - 120		Recovery =	94.04%		
37) Toluene-d8	10.323	98	456072	24.23	ug/L	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	96.92%		
38) trans-1,3-Dichloroprop...	10.573	79	54408	21.69	ug/L	0.00
Spiked Amount 25.000	Range 30 - 135		Recovery =	86.76%		
39) 2-Hexanone-d5	10.920	63	38411	36.31	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery =	72.62%		
48) 1,1,2,2-Tetrachloroeth...	12.688	84	96732	19.90	ug/L	0.00
Spiked Amount 25.000	Range 45 - 120		Recovery =	79.60%		
61) 1,2-Dichlorobenzene-d4	13.853	152	163845	23.90	ug/L	0.00
Spiked Amount 25.000	Range 75 - 120		Recovery =	95.60%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.007	85	57041	10.27	ug/L	96
3) Chloromethane	2.215	50	50813	12.42	ug/L	97
5) Vinyl chloride	2.367	62	152284	26.98	ug/L	99
6) Bromomethane	2.782	94	56492	14.07	ug/L	100
8) Chloroethane	2.922	64	32241	9.56	ug/L	99
9) Trichlorofluoromethane	3.257	101	40619	9.95	ug/L	100
11) 1,1,2-Trichloro-1,2,2-...	4.062	101	131132	22.49	ug/L #	64
12) 1,1-Dichloroethene	4.044	96	89343	16.28	ug/L	94
15) Methyl Acetate	4.659	43	42605	19.06	ug/L	96
16) Methylene chloride	4.915	84	116423	17.69	ug/L	92
17) Methyl tert-butyl Ether	5.421	73	237561	38.56	ug/L	97
21) 2-Butanone	7.165	43	74685	48.68	ug/L	97
25) Chloroform	7.671	83	211040	20.43	ug/L	100
30) Cyclohexane	7.951	56	187399	22.74	ug/L	95
34) Benzene	8.323	78	950928	45.15	ug/L	100
35) Trichloroethene	9.091	95	343563	57.89	ug/L	98
44) Toluene	10.384	91	1309601	56.50	ug/L	99
46) 1,1,2-Trichloroethane	10.786	97	79908	19.37	ug/L	98
47) Tetrachloroethene	10.859	164	59576	11.79	ug/L	90

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

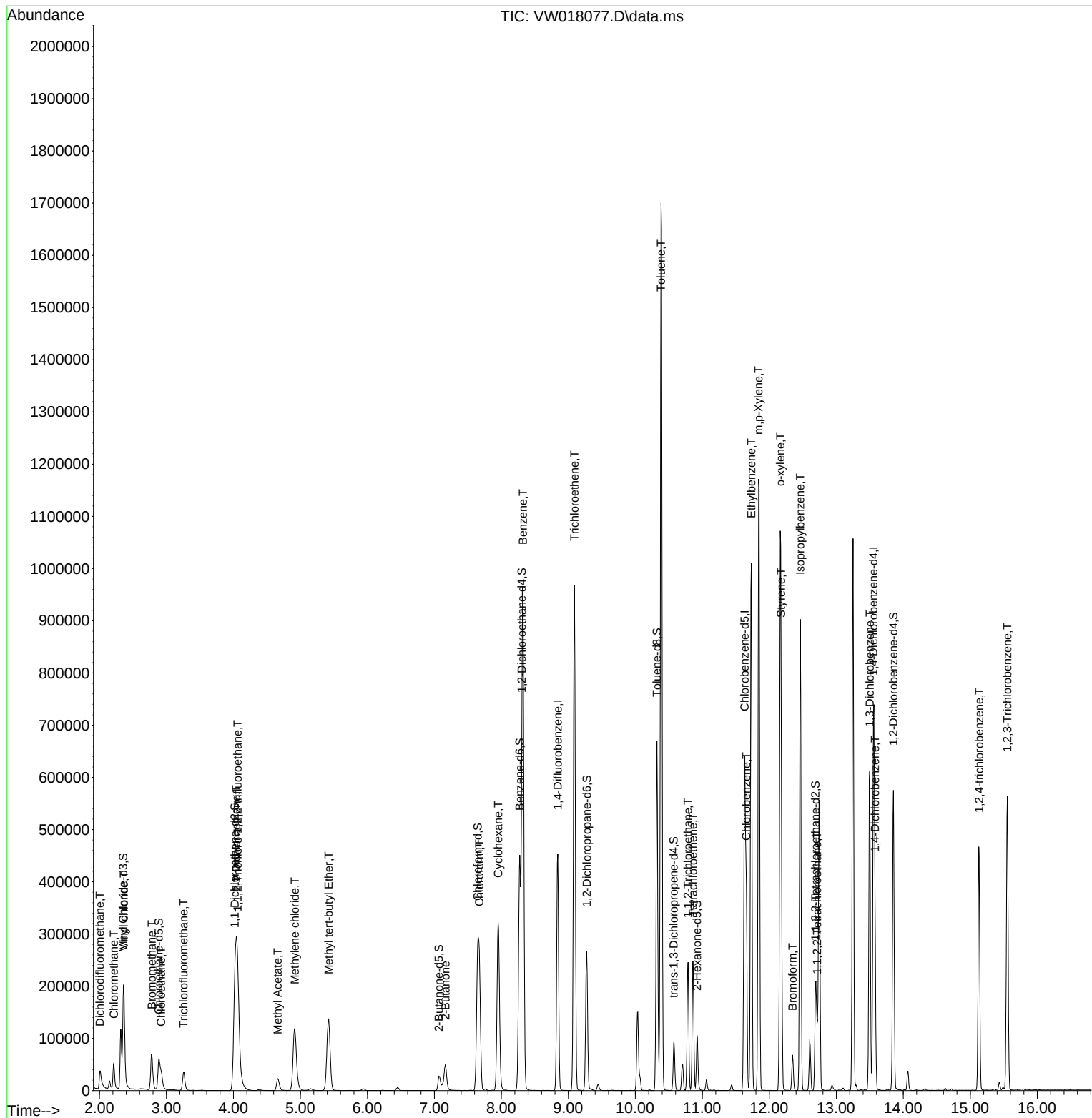
52) Chlorobenzene	11.658	112	211137	13.83	ug/L	98
53) Ethylbenzene	11.731	91	727196	27.61	ug/L	97
54) m,p-Xylene	11.841	106	340447	33.90	ug/L	96
55) o-xylene	12.164	106	265559	27.87	ug/L	99
56) Styrene	12.176	104	183775	11.34	ug/L	89
57) Isopropylbenzene	12.463	105	585290	22.06	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.713	83	50271	10.30	ug/L	99
62) Bromoform	12.347	173	31454	10.62	ug/L	96
63) 1,3-Dichlorobenzene	13.499	146	267999	21.88	ug/L	97
64) 1,4-Dichlorobenzene	13.579	146	129962	10.55	ug/L	91
68) 1,2,4-trichlorobenzene	15.133	180	162328	20.69	ug/L	96
70) 1,2,3-Trichlorobenzene	15.554	180	205021	29.32	ug/L	98

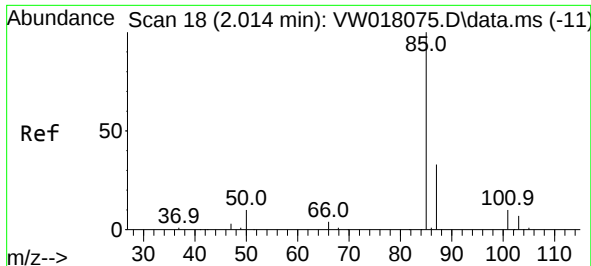
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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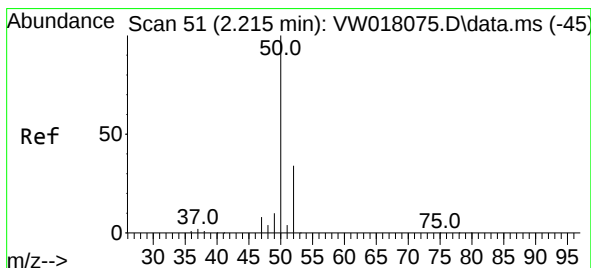
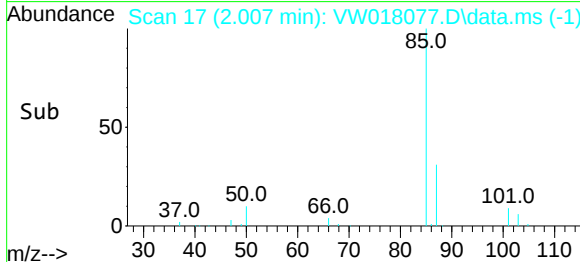
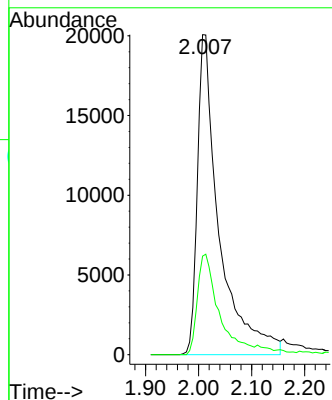
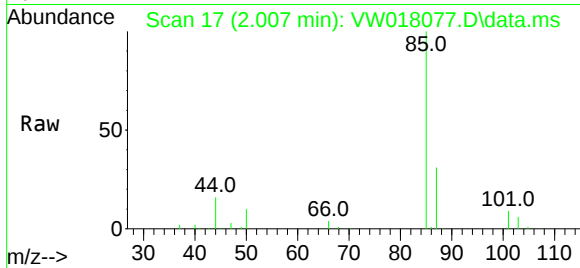




#2
 Dichlorodifluoromethane
 Concen: 10.27 ug/L
 RT: 2.007 min Scan# 17
 Delta R.T. -0.006 min
 Lab File: VW018077.D
 Acq: 11 Feb 2021 11:24

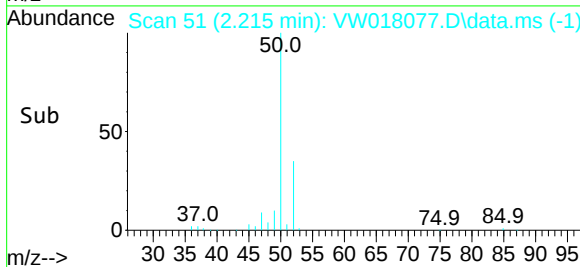
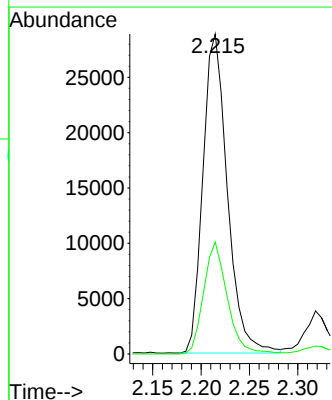
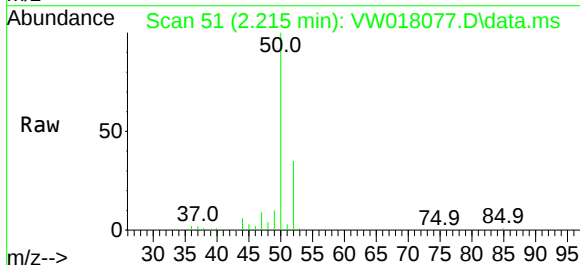
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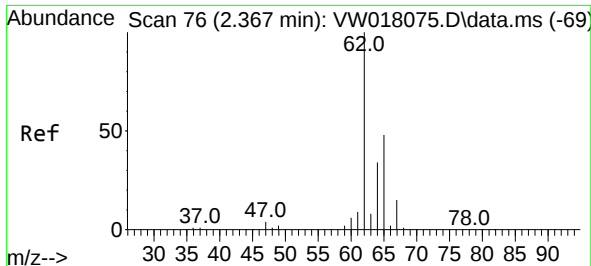
Tgt Ion: 85 Resp: 57041
 Ion Ratio Lower Upper
 85 100
 87 31.0 23.2 43.0



#3
 Chloromethane
 Concen: 12.42 ug/L
 RT: 2.215 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VW018077.D
 Acq: 11 Feb 2021 11:24

Tgt Ion: 50 Resp: 50813
 Ion Ratio Lower Upper
 50 100
 52 35.0 23.4 43.6

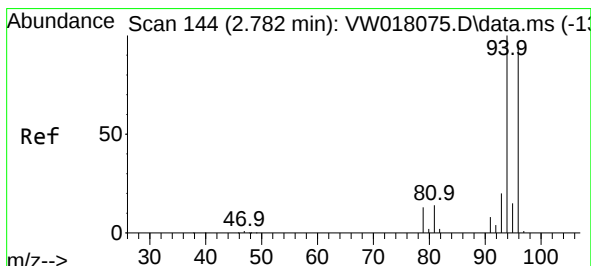
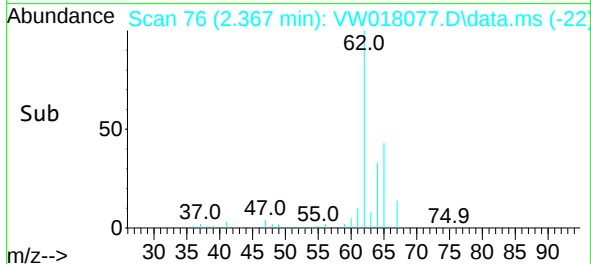
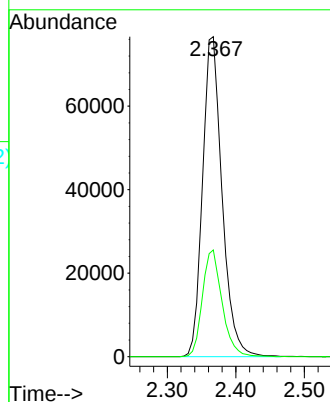
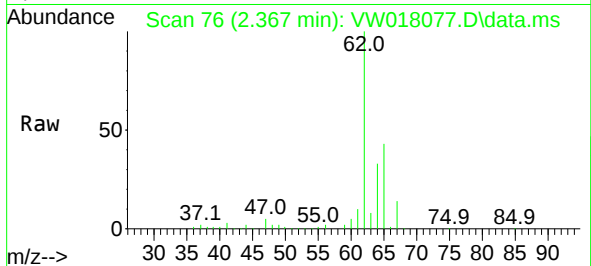




#5
 Vinyl chloride
 Concen: 26.98 ug/L
 RT: 2.367 min Scan# 76
 Delta R.T. -0.000 min
 Lab File: VW018077.D
 Acq: 11 Feb 2021 11:24

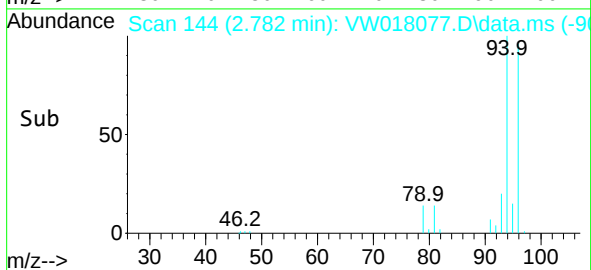
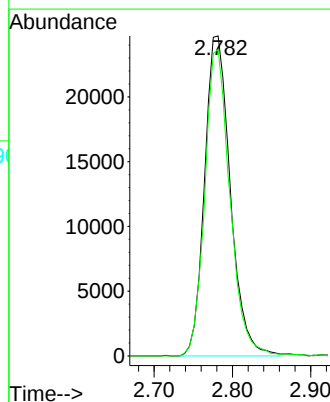
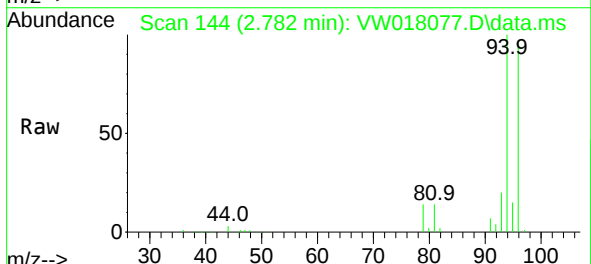
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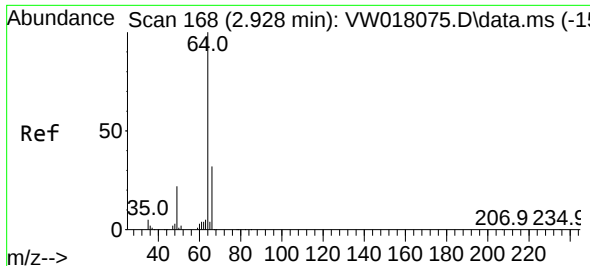
Tgt Ion: 62 Resp: 152284
 Ion Ratio Lower Upper
 62 100
 64 33.4 23.9 44.5



#6
 Bromomethane
 Concen: 14.07 ug/L
 RT: 2.782 min Scan# 144
 Delta R.T. -0.000 min
 Lab File: VW018077.D
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Tgt Ion: 94 Resp: 56492
 Ion Ratio Lower Upper
 94 100
 96 93.5 9.4 178.0

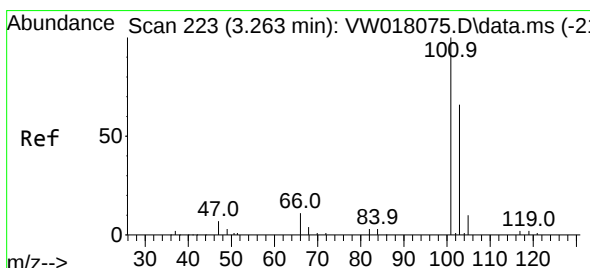
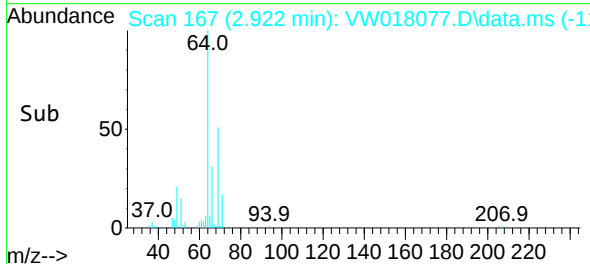
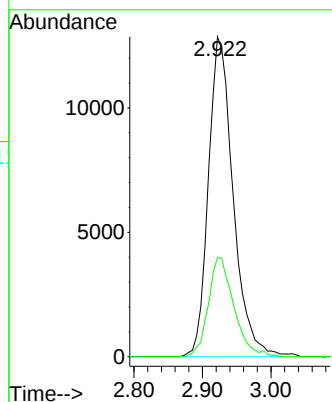
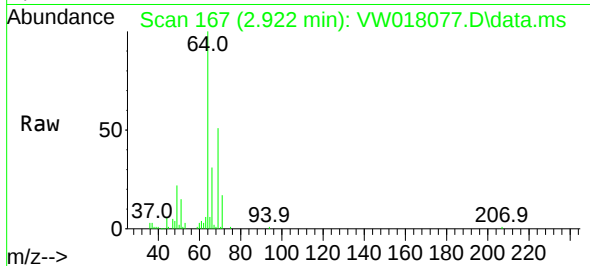




#8
Chloroethane
Concen: 9.56 ug/L
RT: 2.922 min Scan# 167
Delta R.T. -0.006 min
Lab File: VW018077.D
Acq: 11 Feb 2021 11:24

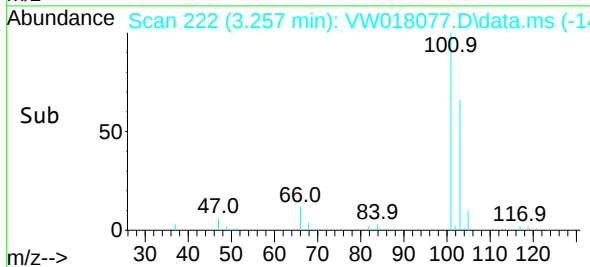
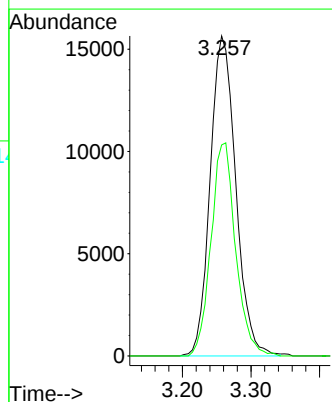
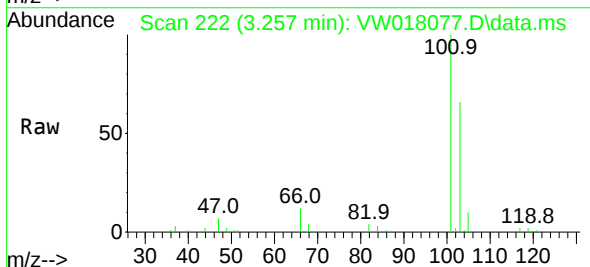
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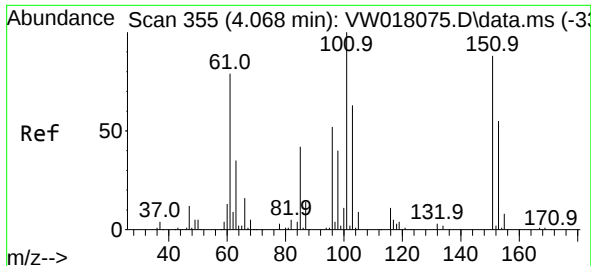
Tgt Ion: 64 Resp: 32241
Ion Ratio Lower Upper
64 100
66 31.0 22.0 41.0



#9
Trichlorofluoromethane
Concen: 9.95 ug/L
RT: 3.257 min Scan# 222
Delta R.T. -0.006 min
Lab File: VW018077.D
Acq: 11 Feb 2021 11:24

Tgt Ion: 101 Resp: 40619
Ion Ratio Lower Upper
101 100
103 64.0 45.0 83.6

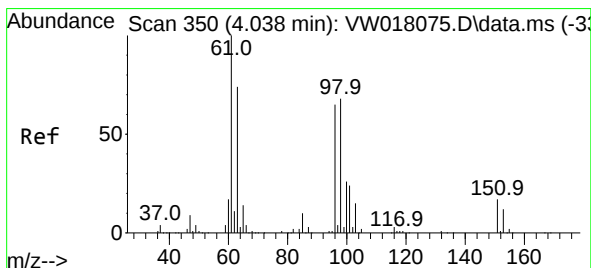
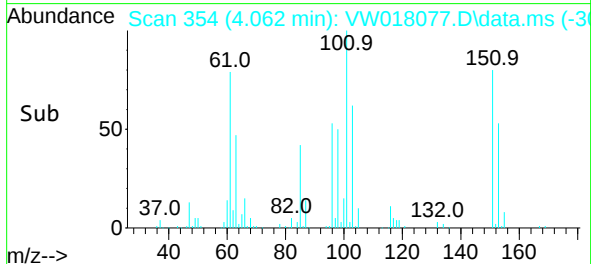
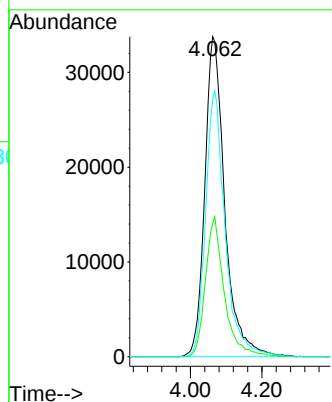
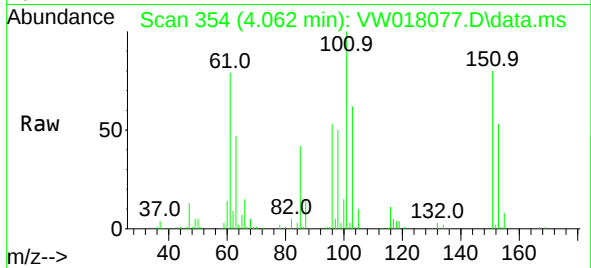




#11
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 22.49 ug/L
 RT: 4.062 min Scan# 354
 Delta R.T. -0.006 min
 Lab File: VW018077.D
 Acq: 11 Feb 2021 11:24

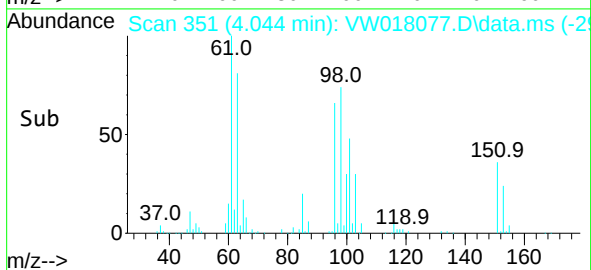
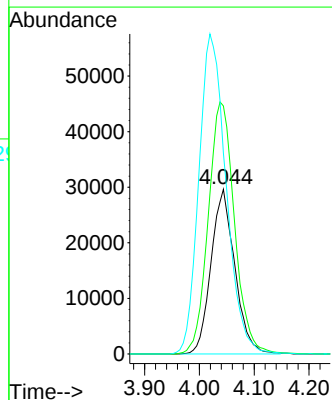
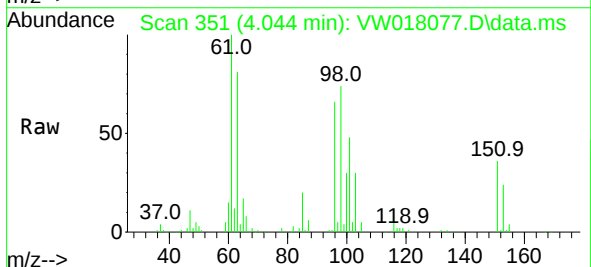
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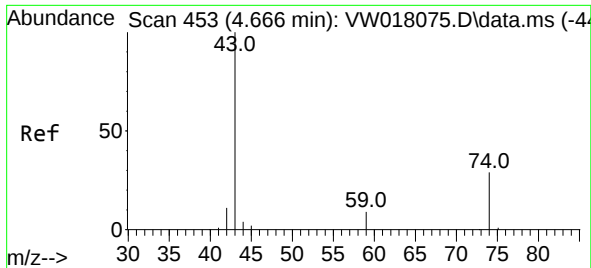
Tgt Ion:101 Resp: 131132
 Ion Ratio Lower Upper
 101 100
 85 39.8 34.2 51.4
 151 80.7 30.4 45.6#



#12
 1,1-Dichloroethene
 Concen: 16.28 ug/L
 RT: 4.044 min Scan# 351
 Delta R.T. 0.006 min
 Lab File: VW018077.D
 Acq: 11 Feb 2021 11:24

Tgt Ion: 96 Resp: 89343
 Ion Ratio Lower Upper
 96 100
 61 150.6 112.5 208.9
 63 122.0 83.1 154.3

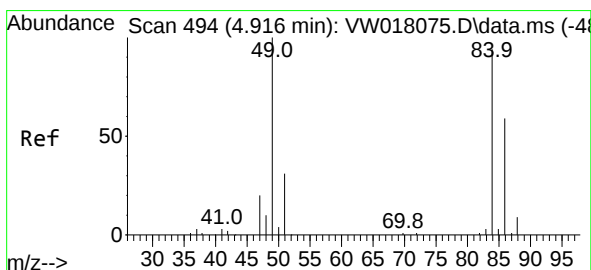
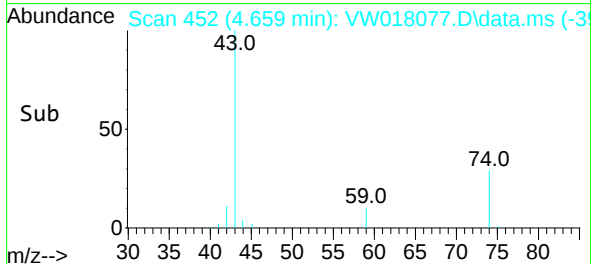
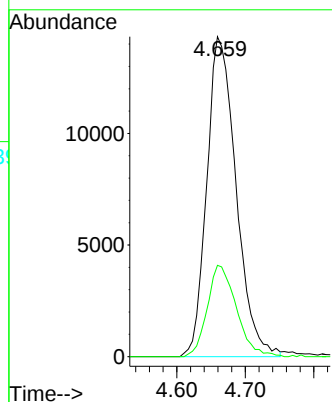
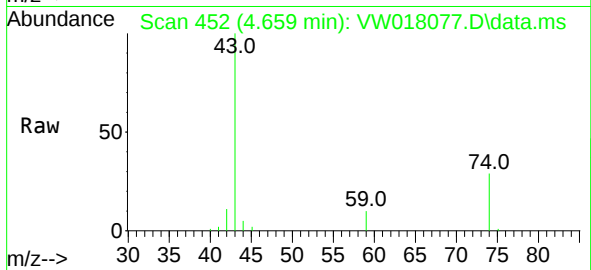




#15
Methyl Acetate
Concen: 19.06 ug/L
RT: 4.659 min Scan# 452
Delta R.T. -0.006 min
Lab File: VW018077.D
Acq: 11 Feb 2021 11:24

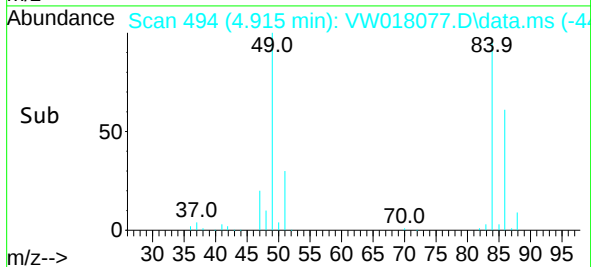
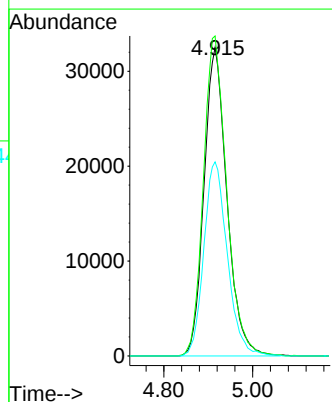
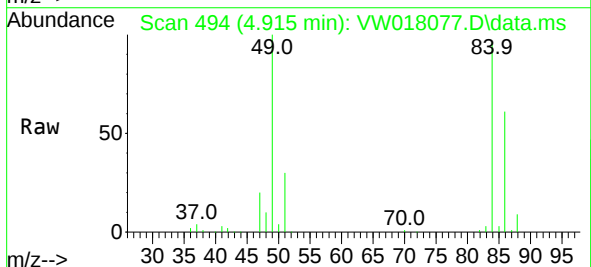
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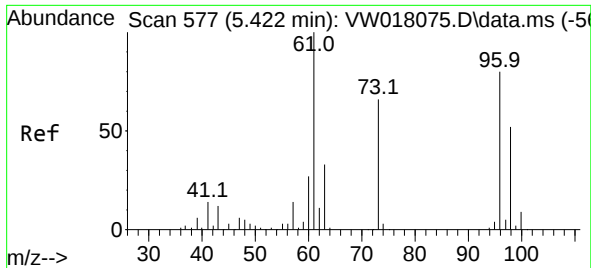
Tgt Ion: 43 Resp: 42605
Ion Ratio Lower Upper
43 100
74 27.9 20.7 31.1



#16
Methylene chloride
Concen: 17.69 ug/L
RT: 4.915 min Scan# 494
Delta R.T. -0.000 min
Lab File: VW018077.D
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Tgt Ion: 84 Resp: 116423
Ion Ratio Lower Upper
84 100
49 103.7 81.2 150.8
86 62.9 44.5 82.7

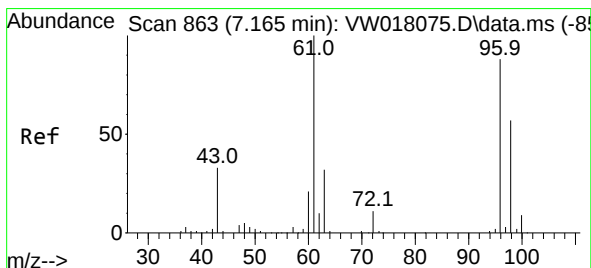
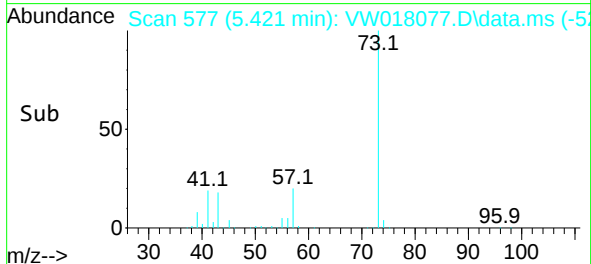
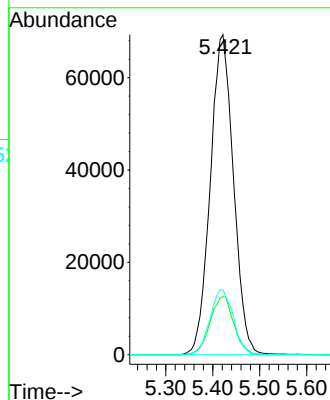
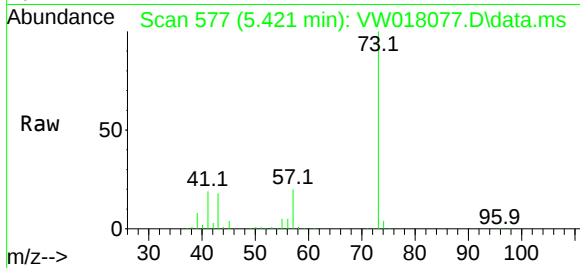




#17
Methyl tert-butyl Ether
Concen: 38.56 ug/L
RT: 5.421 min Scan# 577
Delta R.T. -0.000 min
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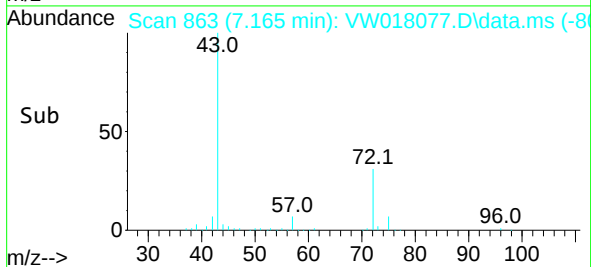
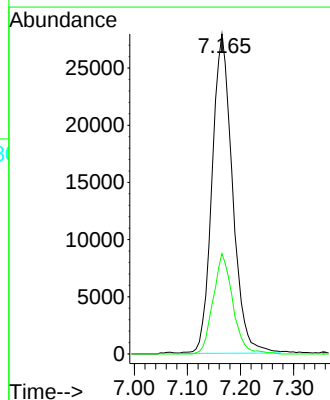
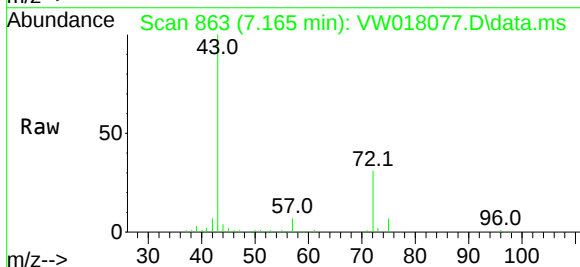
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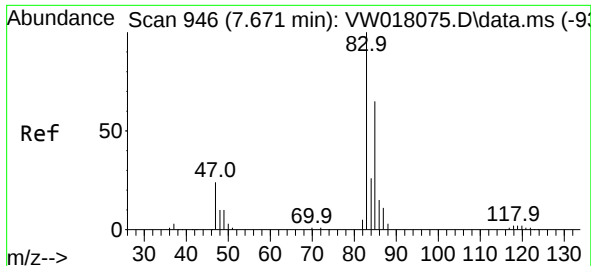
Tgt Ion: 73	Resp: 237561
Ion Ratio	Lower Upper
73 100	
43 18.4	16.2 24.4
57 20.7	17.2 25.8



#21
2-Butanone
Concen: 48.68 ug/L
RT: 7.165 min Scan# 863
Delta R.T. -0.000 min
Lab File: VW018077.D
Acq: 11 Feb 2021 11:24

Tgt Ion: 43	Resp: 74685
Ion Ratio	Lower Upper
43 100	
72 30.2	14.4 43.2

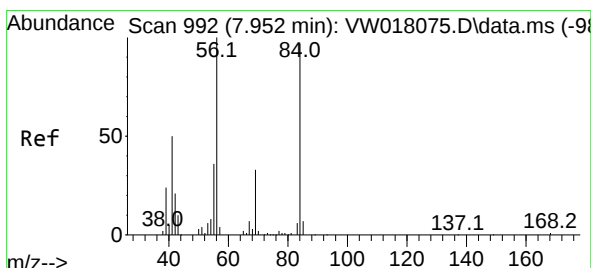
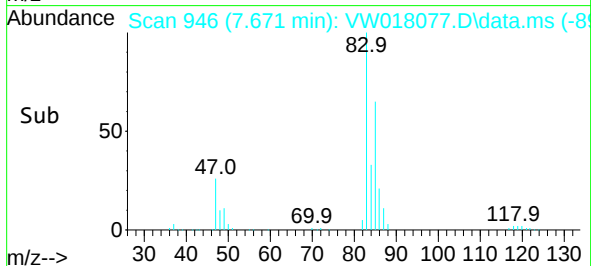
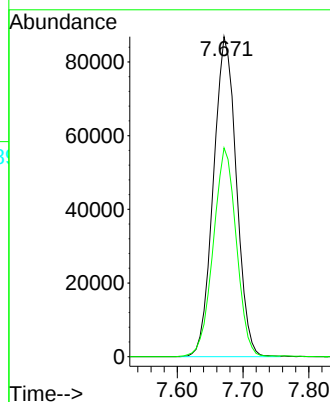
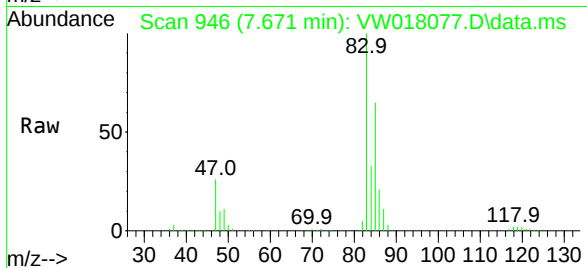




#25
Chloroform
Concen: 20.43 ug/L
RT: 7.671 min Scan# 946
Delta R.T. -0.000 min
Lab File: VW018077.D
Acq: 11 Feb 2021 11:24

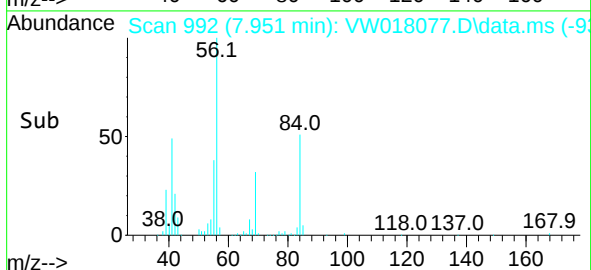
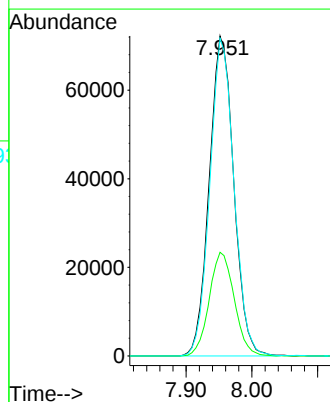
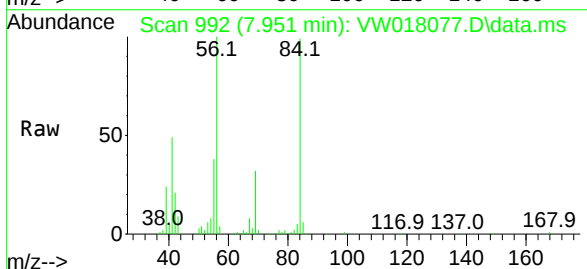
Instrument :
MSVOA_W
ClientSampled :
DBGP6

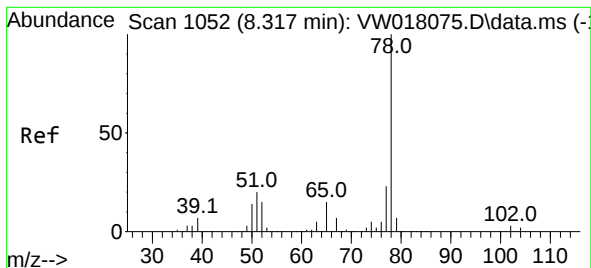
Tgt Ion: 83 Resp: 211040
Ion Ratio Lower Upper
83 100
85 65.7 45.7 84.9



#30
Cyclohexane
Concen: 22.74 ug/L
RT: 7.951 min Scan# 992
Delta R.T. -0.000 min
Lab File: VW018077.D
Acq: 11 Feb 2021 11:24

Tgt Ion: 56 Resp: 187399
Ion Ratio Lower Upper
56 100
69 33.1 24.8 37.2
84 97.7 74.2 111.4





#34

Benzene

Concen: 45.15 ug/L

RT: 8.323 min Scan# 1053

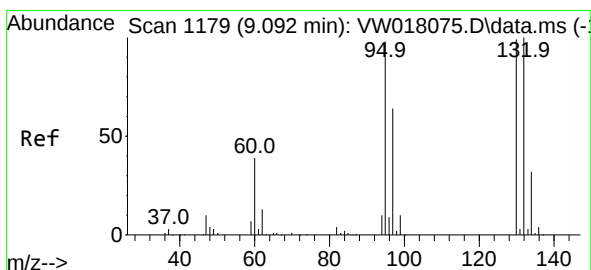
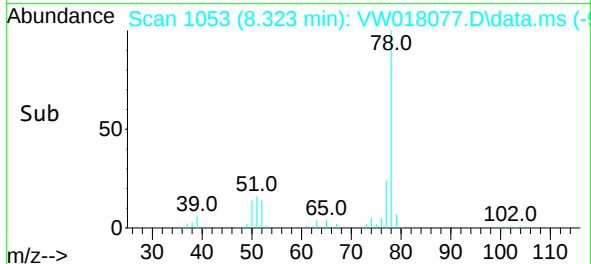
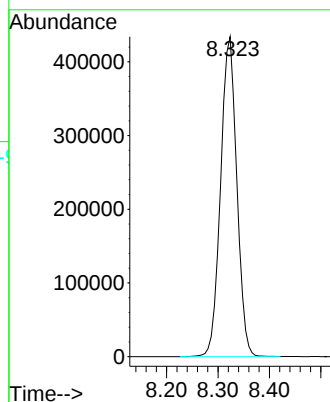
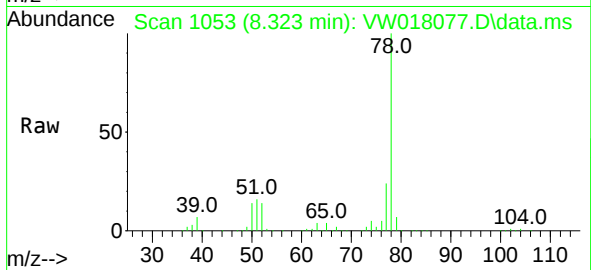
Delta R.T. 0.006 min

Lab File: VW018077.D

Acq: 11 Feb 2021 11:24

Tgt Ion: 78 Resp: 950928

Instrument :
MSVOA_W
ClientSampled :
DBGP6



#35

Trichloroethene

Concen: 57.89 ug/L

RT: 9.091 min Scan# 1179

Delta R.T. -0.000 min

Lab File: VW018077.D

Acq: 11 Feb 2021 11:24

Tgt Ion: 95 Resp: 343563

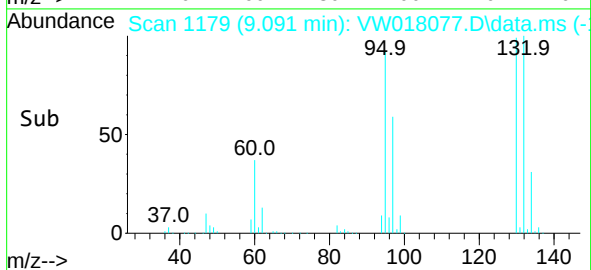
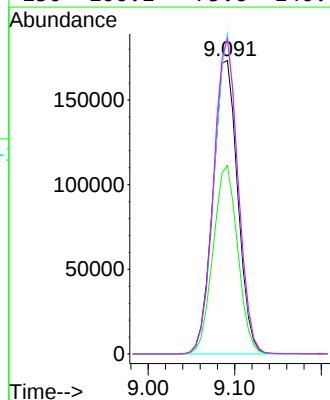
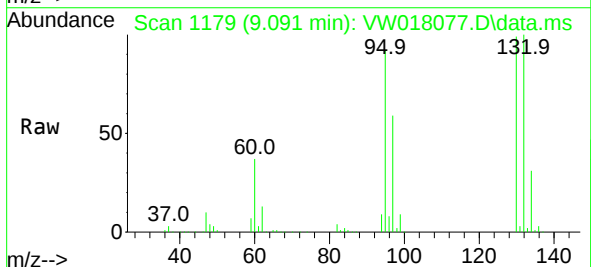
Ion Ratio Lower Upper

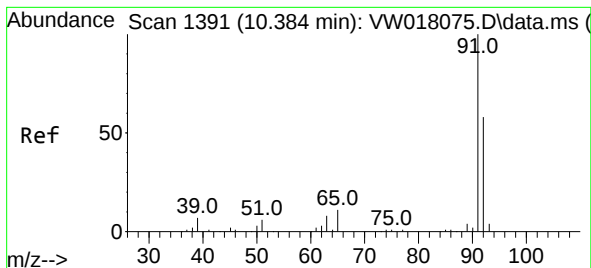
95 100

97 63.9 45.0 83.6

132 104.2 71.0 131.8

130 106.1 75.6 140.4





#44

Toluene

Concen: 56.50 ug/L

RT: 10.384 min Scan# 1391

Delta R.T. -0.000 min

Lab File: VW018077.D

Acq: 11 Feb 2021 11:24

Tgt Ion: 91 Resp: 1309601

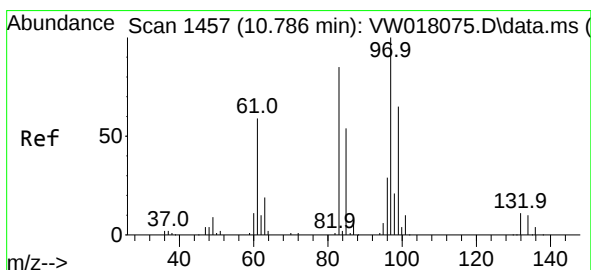
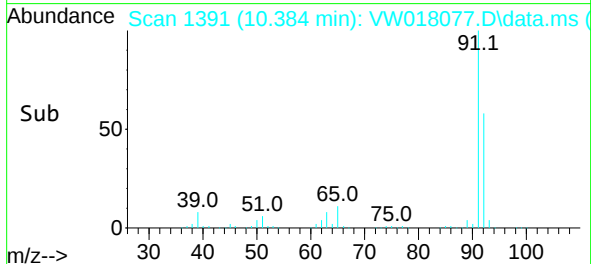
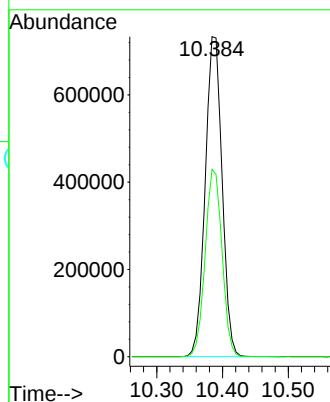
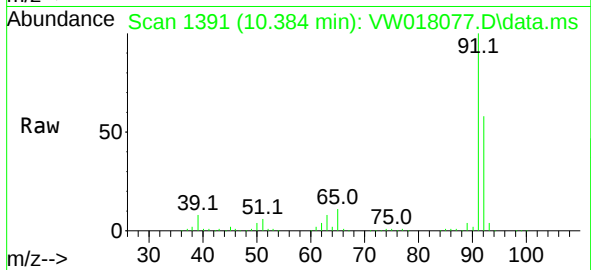
Ion	Ratio	Lower	Upper
91	100		
92	58.5	41.6	77.3

Instrument :

MSVOA_W

ClientSampleId :

DBGP6



#46

1,1,2-Trichloroethane

Concen: 19.37 ug/L

RT: 10.786 min Scan# 1457

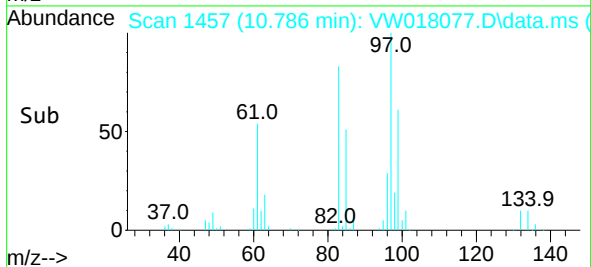
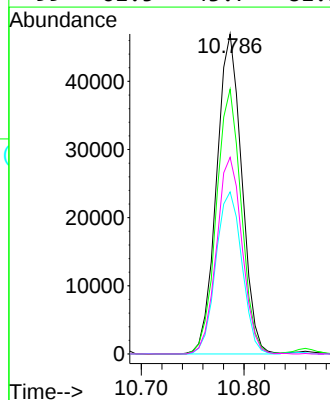
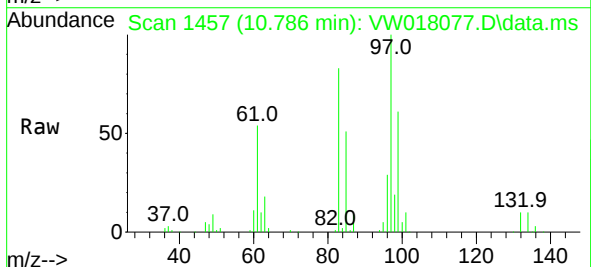
Delta R.T. -0.000 min

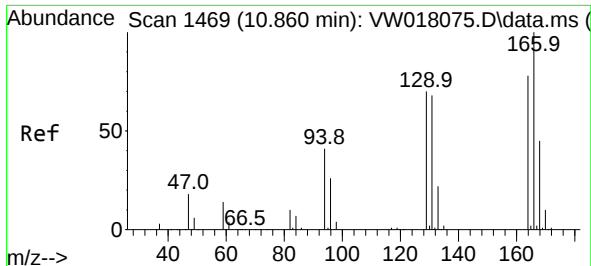
Lab File: VW018077.D

Acq: 11 Feb 2021 11:24

Tgt Ion: 97 Resp: 79908

Ion	Ratio	Lower	Upper
97	100		
83	82.8	58.5	108.7
85	50.7	37.8	70.2
99	61.5	43.7	81.1





#47

Tetrachloroethene

Concen: 11.79 ug/L

RT: 10.859 min Scan# 1469

Delta R.T. -0.000 min

Lab File: VW018077.D

Acq: 11 Feb 2021 11:24

Instrument :

MSVOA_W

ClientSampleId :

DBGP6

Tgt Ion:164 Resp: 59576

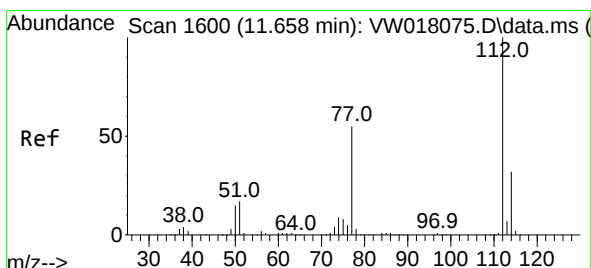
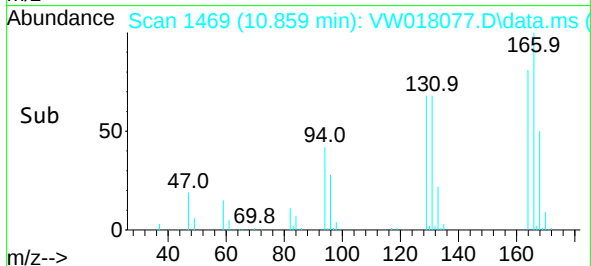
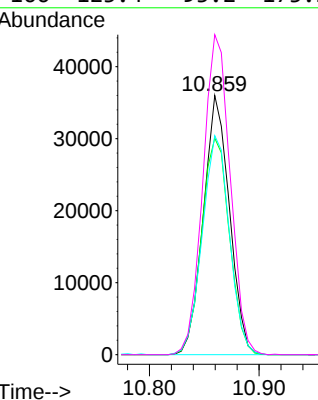
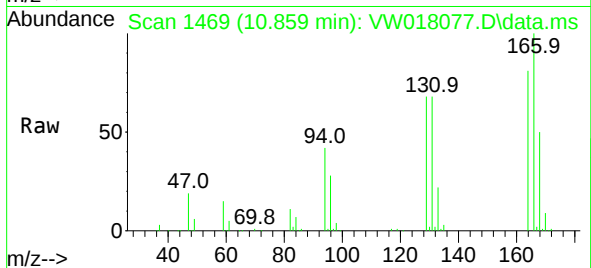
Ion Ratio Lower Upper

164 100

129 83.5 67.6 125.6

131 84.5 65.2 121.2

166 123.4 93.2 173.2



#52

Chlorobenzene

Concen: 13.83 ug/L

RT: 11.658 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VW018077.D

Acq: 11 Feb 2021 11:24

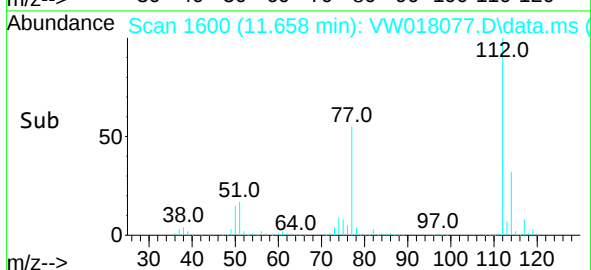
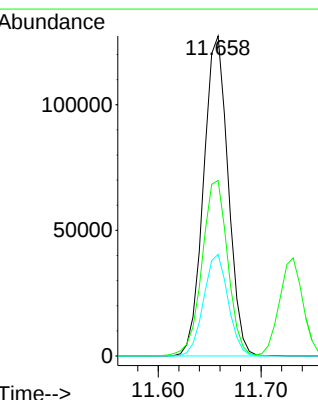
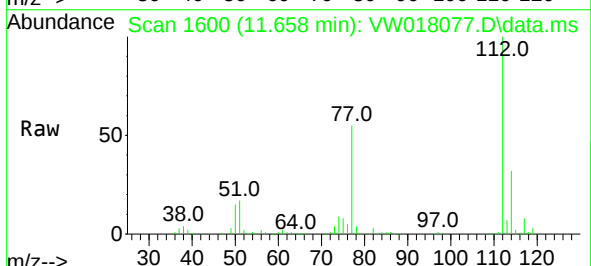
Tgt Ion:112 Resp: 211137

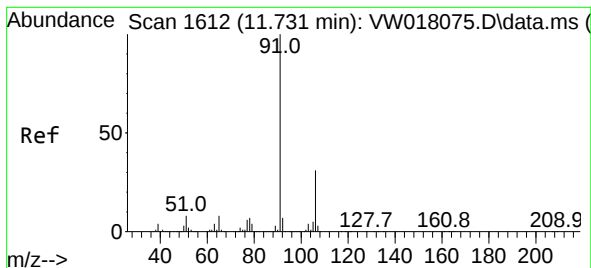
Ion Ratio Lower Upper

112 100

77 54.8 42.6 64.0

114 31.8 21.6 40.2

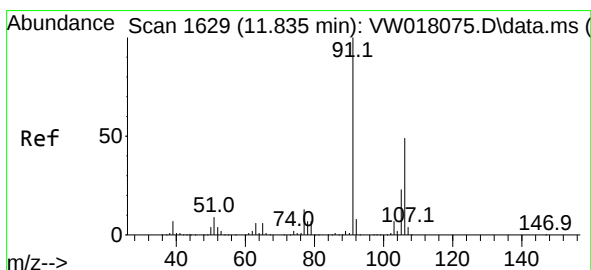
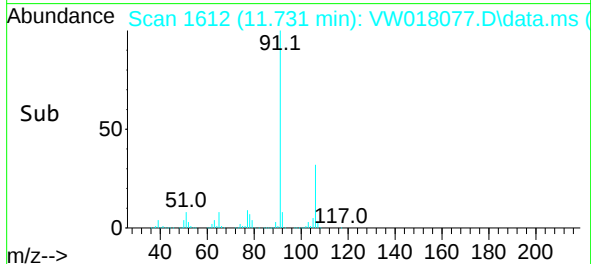
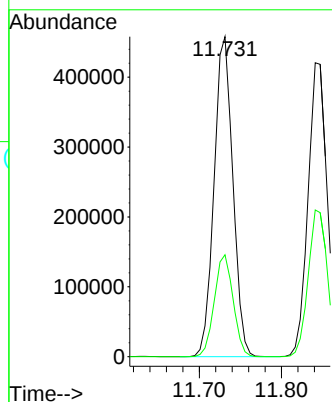
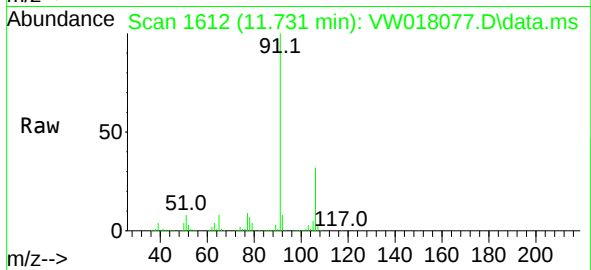




#53
Ethylbenzene
Concen: 27.61 ug/L
RT: 11.731 min Scan# 1612
Delta R.T. -0.000 min
Lab File: VW018077.D
Acq: 11 Feb 2021 11:24

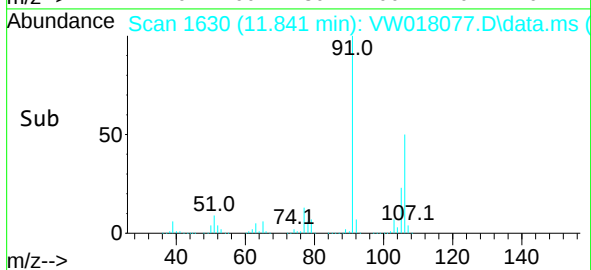
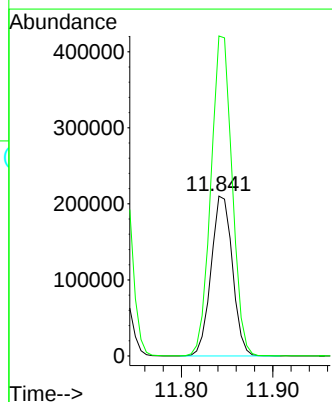
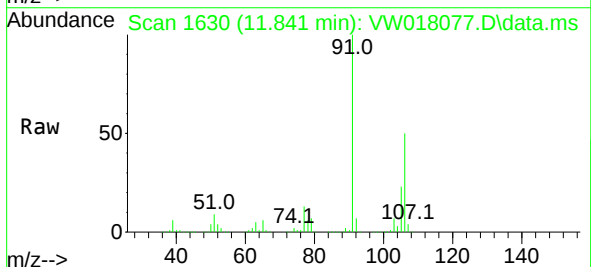
Instrument :
MSVOA_W
ClientSampleId :
DBGP6

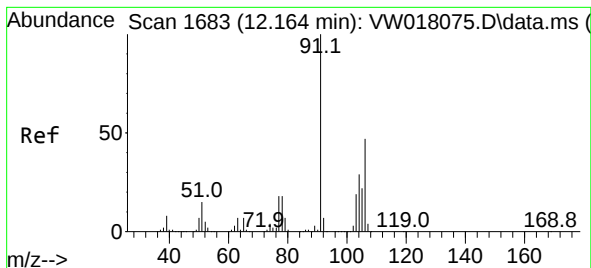
Tgt Ion: 91 Resp: 727196
Ion Ratio Lower Upper
91 100
106 31.8 21.1 39.1



#54
m,p-Xylene
Concen: 33.90 ug/L
RT: 11.841 min Scan# 1630
Delta R.T. 0.006 min
Lab File: VW018077.D
Acq: 11 Feb 2021 11:24

Tgt Ion:106 Resp: 340447
Ion Ratio Lower Upper
106 100
91 200.2 136.4 253.4

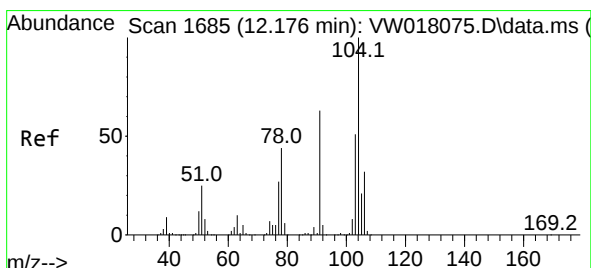
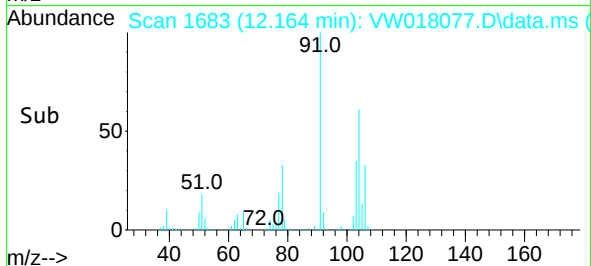
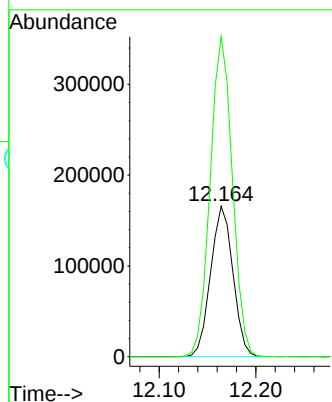
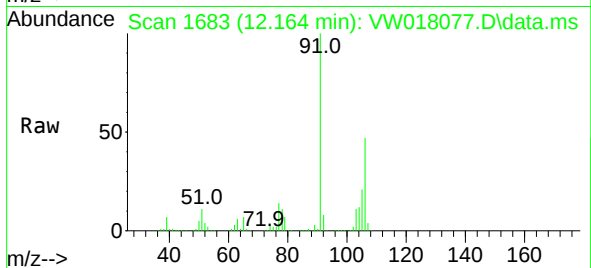




#55
o-xylene
Concen: 27.87 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VW018077.D
Acq: 11 Feb 2021 11:24

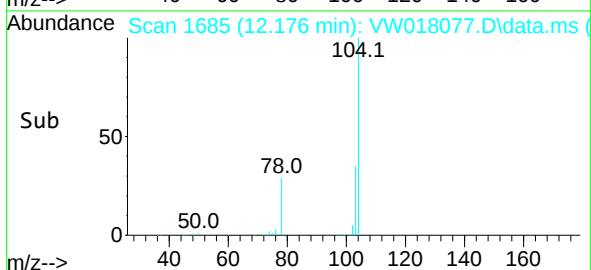
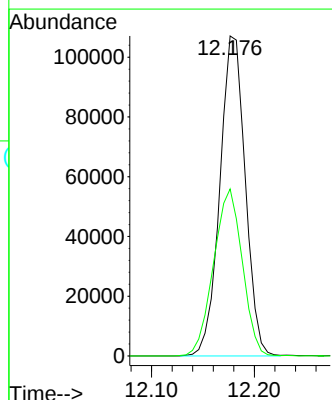
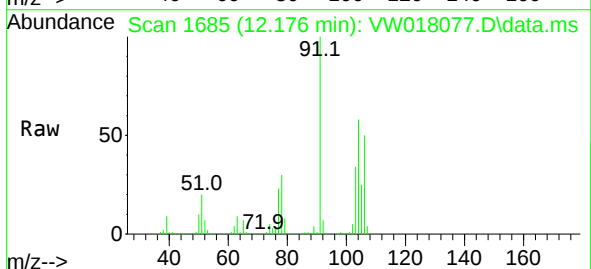
Instrument :
MSVOA_W
ClientSampleId :
DBGP6

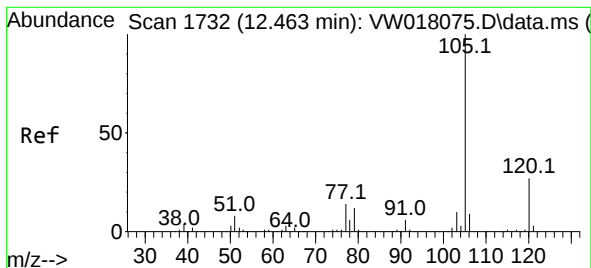
Tgt Ion:106 Resp: 265559
Ion Ratio Lower Upper
106 100
91 212.8 147.6 274.2



#56
Styrene
Concen: 11.34 ug/L
RT: 12.176 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VW018077.D
Acq: 11 Feb 2021 11:24

Tgt Ion:104 Resp: 183775
Ion Ratio Lower Upper
104 100
78 52.2 31.3 58.1

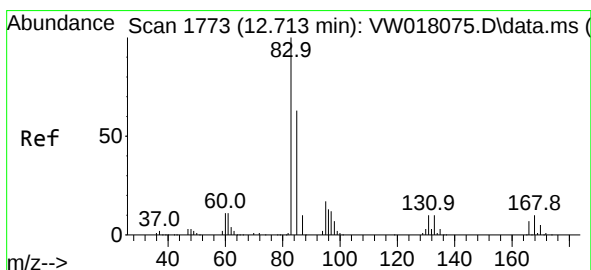
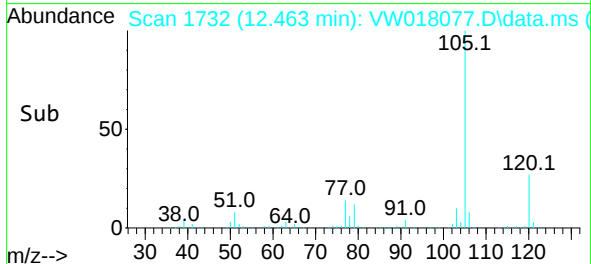
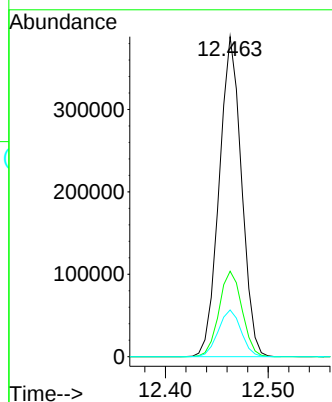
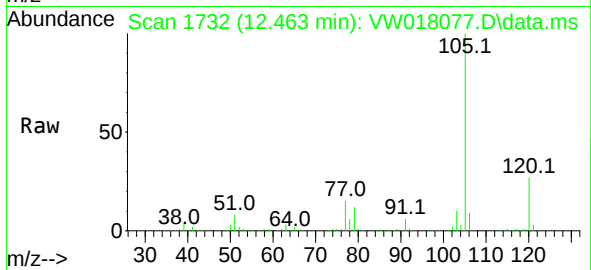




#57
Isopropylbenzene
Concen: 22.06 ug/L
RT: 12.463 min Scan# 1732
Delta R.T. -0.000 min
Lab File: VW018077.D
Acq: 11 Feb 2021 11:24

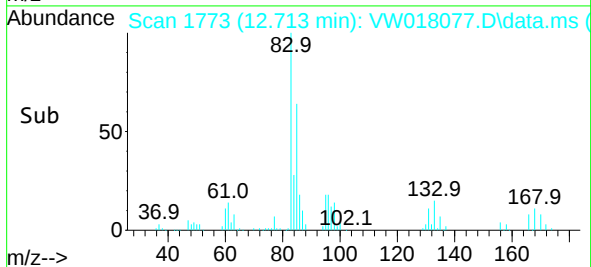
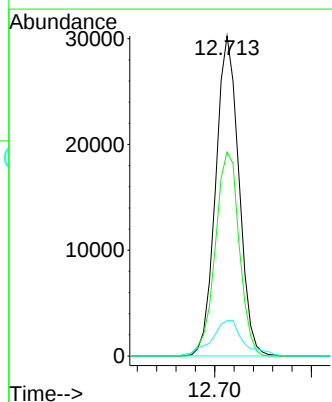
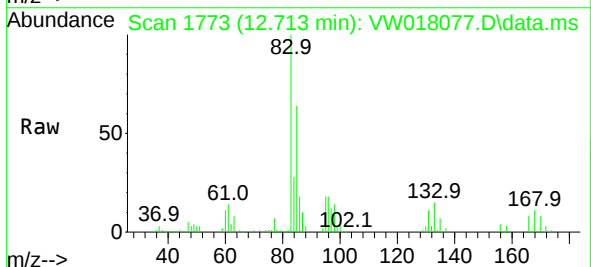
Instrument :
MSVOA_W
ClientSampleId :
DBGP6

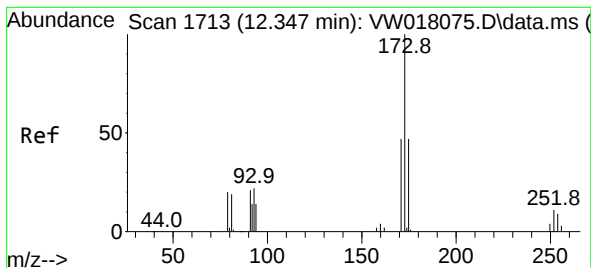
Tgt Ion:105 Resp: 585290
Ion Ratio Lower Upper
105 100
120 27.5 21.4 32.2
77 14.9 12.1 18.1



#58
1,1,2,2-Tetrachloroethane
Concen: 10.30 ug/L
RT: 12.713 min Scan# 1773
Delta R.T. -0.000 min
Lab File: VW018077.D
Acq: 11 Feb 2021 11:24

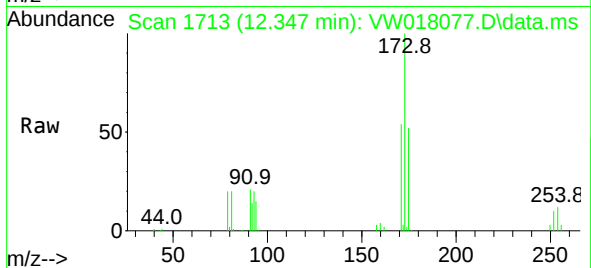
Tgt Ion: 83 Resp: 50271
Ion Ratio Lower Upper
83 100
85 63.7 45.3 84.1
131 11.0 8.3 12.5



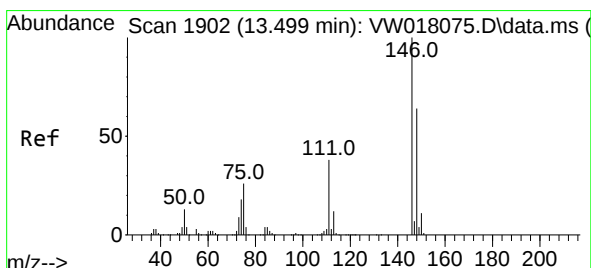
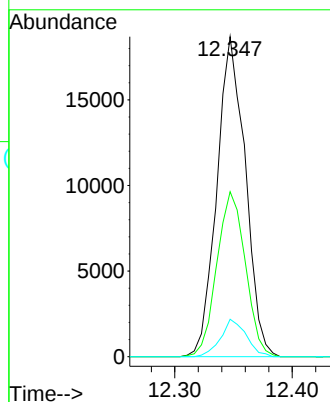
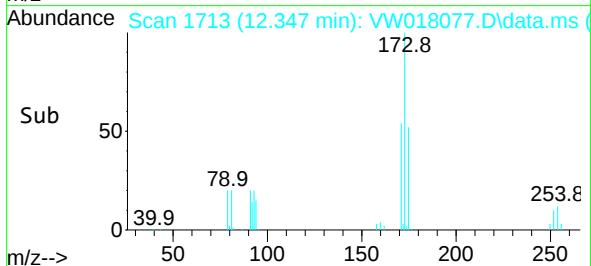


#62
Bromoform
Concen: 10.62 ug/L
RT: 12.347 min Scan# 1713
Delta R.T. -0.000 min
Lab File: VW018077.D
Acq: 11 Feb 2021 11:24

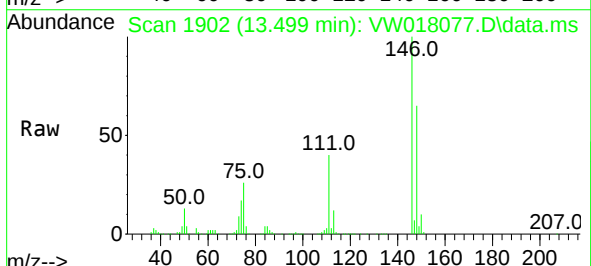
Instrument :
MSVOA_W
ClientSampleId :
DBGP6



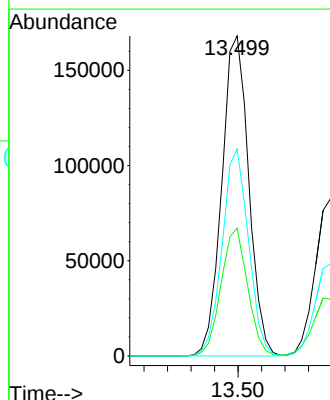
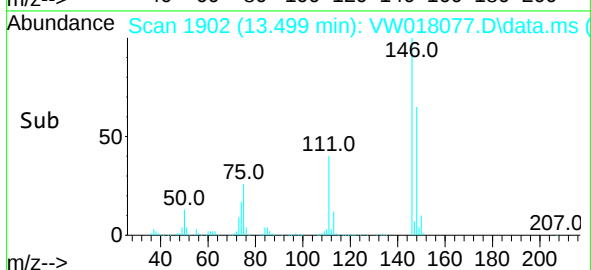
Tgt Ion:173 Resp: 31454
Ion Ratio Lower Upper
173 100
175 51.7 39.1 58.7
254 10.5 7.1 10.7

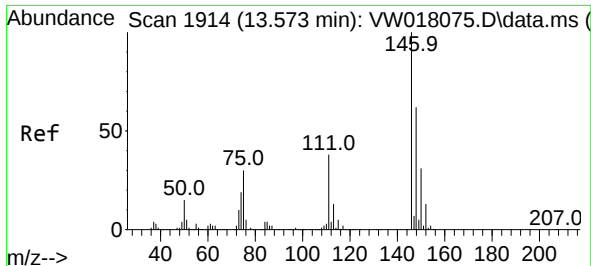


#63
1,3-Dichlorobenzene
Concen: 21.88 ug/L
RT: 13.499 min Scan# 1902
Delta R.T. -0.000 min
Lab File: VW018077.D
Acq: 11 Feb 2021 11:24



Tgt Ion:146 Resp: 267999
Ion Ratio Lower Upper
146 100
111 39.9 28.5 52.9
148 64.7 47.8 88.8

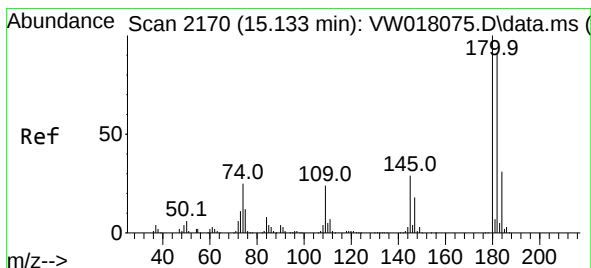
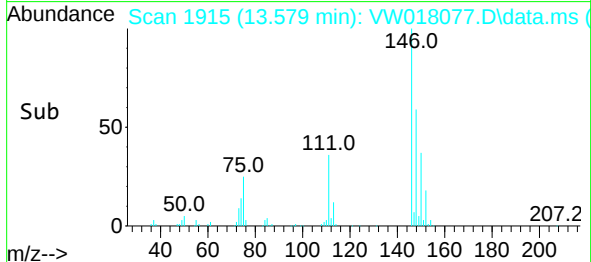
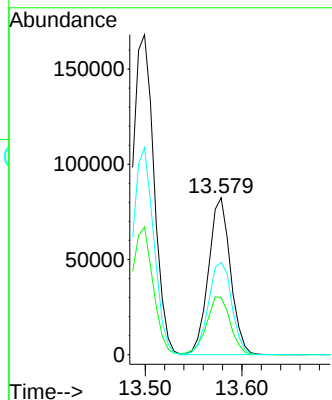
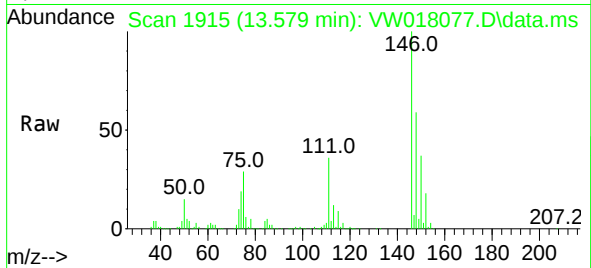




#64
1,4-Dichlorobenzene
Concen: 10.55 ug/L
RT: 13.579 min Scan# 1915
Delta R.T. 0.006 min
Lab File: VW018077.D
Acq: 11 Feb 2021 11:24

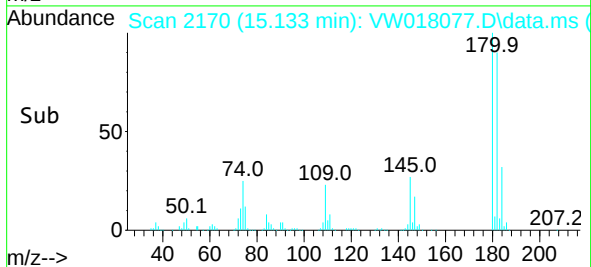
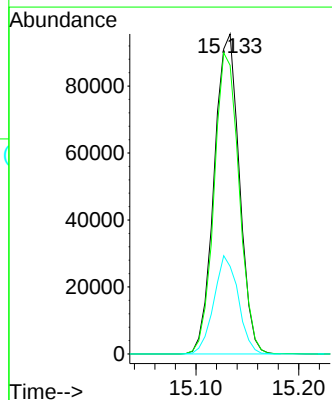
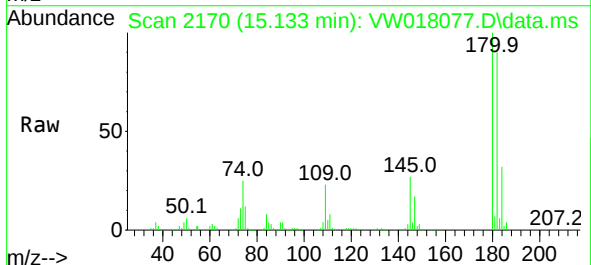
Instrument :
MSVOA_W
ClientSampleId :
DBGP6

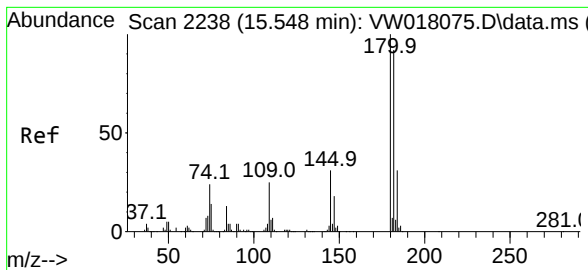
Tgt Ion:146 Resp: 129962
Ion Ratio Lower Upper
146 100
111 36.3 27.7 51.5
148 58.8 47.0 87.2



#68
1,2,4-trichlorobenzene
Concen: 20.69 ug/L
RT: 15.133 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VW018077.D
Acq: 11 Feb 2021 11:24

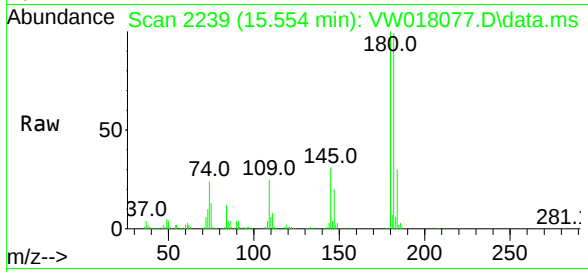
Tgt Ion:180 Resp: 162328
Ion Ratio Lower Upper
180 100
182 93.5 71.3 106.9
145 29.8 24.0 36.0





#70
 1,2,3-Trichlorobenzene
 Concen: 29.32 ug/L
 RT: 15.554 min Scan# 2239
 Delta R.T. 0.006 min
 Lab File: VW018077.D
 Acq: 11 Feb 2021 11:24

Instrument :
 MSVOA_W
 ClientSampleId :
 DBGP6



Tgt Ion:	180	Resp:	205021
Ion Ratio	Lower	Upper	
180	100		
182	96.5	74.7	112.1
145	31.8	25.4	38.0

