

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW022521\
 Data File : VW018239.D
 Acq On : 25 Feb 2021 16:00
 Operator : SY/VA
 Sample : M1496-07
 Misc : 5.00G/10ML/MSVOA_W/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 X3169

Quant Time: Feb 26 07:04:11 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM022321SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Feb 26 07:02:23 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	451798	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.634	117	408283	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.554	152	211156	25.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.361	65	119361	23.91	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.64%
7) Chloroethane-d5	2.891	69	94049	24.04	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	96.16%
11) 1,1-Dichloroethene-d2	4.019	63	215859	21.30	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	85.20%
21) 2-Butanone-d5	7.074	46	51314	47.29	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	94.58%
24) Chloroform-d	7.647	84	251748	22.95	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	91.80%
26) 1,2-Dichloroethane-d4	8.305	65	126739	23.16	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	92.64%
32) Benzene-d6	8.275	84	502862	23.65	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	94.60%
36) 1,2-Dichloropropane-d6	9.274	67	139160	23.58	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	94.32%
41) Toluene-d8	10.323	98	485556	23.85	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	95.40%
43) trans-1,3-Dichloroprop...	10.579	79	63404	23.82	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	95.28%
47) 2-Hexanone-d5	10.920	63	45851	49.00	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	98.00%
56) 1,1,2,2-Tetrachloroeth...	12.688	84	114178	23.70	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	94.80%
66) 1,2-Dichlorobenzene-d4	13.853	152	179582	23.24	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	92.96%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.014	85	65935	12.27	ug/L	97
5) Vinyl chloride	2.367	62	70155	11.84	ug/L	100
8) Chloroethane	2.928	64	60652	18.30	ug/L	95
12) 1,1-Dichloroethene	4.044	96	75137	13.43	ug/L #	71
13) Acetone	4.123	43	125415	171.42	ug/L	86
14) Carbon disulfide	4.391	76	334651	19.58	ug/L	99
16) Methylene chloride	4.915	84	175836	28.69	ug/L	87
17) trans-1,2-Dichloroethene	5.428	96	154588	25.90	ug/L	87
19) 1,1-Dichloroethane	6.214	63	96089	10.28	ug/L	98
20) cis-1,2-Dichloroethene	7.171	96	195674	31.55	ug/L	86
23) Bromochloromethane	7.513	128	110297	37.28	ug/L #	80
25) Chloroform	7.677	83	115688	11.37	ug/L	97
30) 1,1,1-Trichloroethane	7.872	97	340926	41.56	ug/L	95
31) Carbon tetrachloride	8.067	117	126148	15.86	ug/L	99
34) Trichloroethene	9.091	95	194275	31.87	ug/L	90
37) 1,2-Dichloropropane	9.366	63	99005	19.65	ug/L	98
38) Bromodichloromethane	9.640	83	89149	12.63	ug/L	96
39) cis-1,3-Dichloropropene	10.073	75	90867	11.25	ug/L	97
40) 4-Methyl-2-pentanone	10.207	43	98982	38.69	ug/L #	91

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

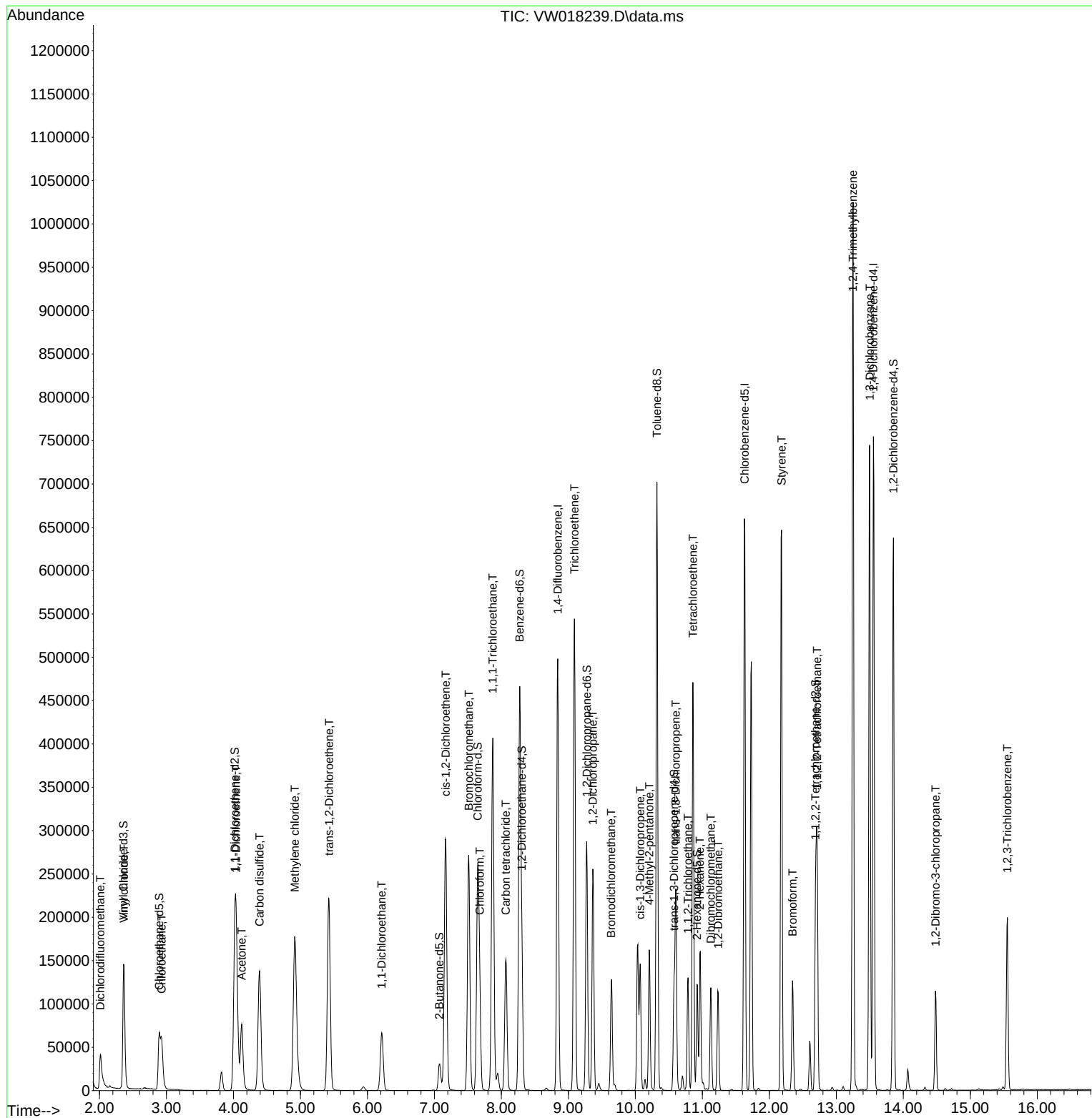
44) trans-1,3-Dichloropropene	10.603	75	130583	18.85	ug/L	99
45) 1,1,2-Trichloroethane	10.786	97	41558	10.08	ug/L	99
46) Tetrachloroethene	10.859	164	112757	20.87	ug/L	96
48) 2-Hexanone	10.963	43	96974	55.53	ug/L #	91
49) Dibromochloromethane	11.128	129	65462	12.85	ug/L	97
50) 1,2-Dibromoethane	11.237	107	80926	20.03	ug/L #	94
55) Styrene	12.182	104	334875	19.95	ug/L	91
57) 1,1,2,2-Tetrachloroethane	12.713	83	130706	28.32	ug/L	98
59) Bromoform	12.347	173	60950	20.29	ug/L #	97
63) 1,2,4-Trimethylbenzene	13.249	105	573479	24.91	ug/L	97
64) 1,3-Dichlorobenzene	13.499	146	335515	25.33	ug/L	94
68) 1,2-Dibromo-3-chloropr...	14.481	75	29226	38.89	ug/L #	75
72) 1,2,3-Trichlorobenzene	15.554	180	72339	9.80	ug/L	97

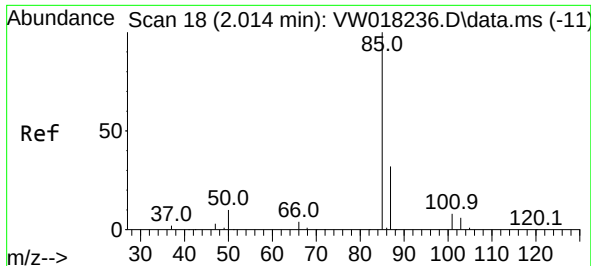
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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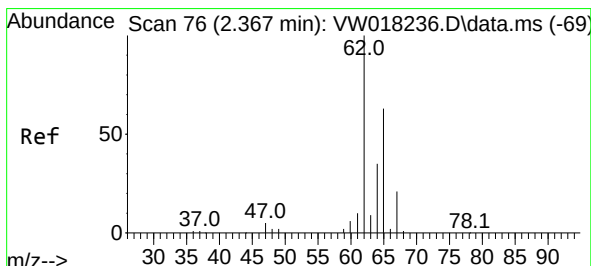
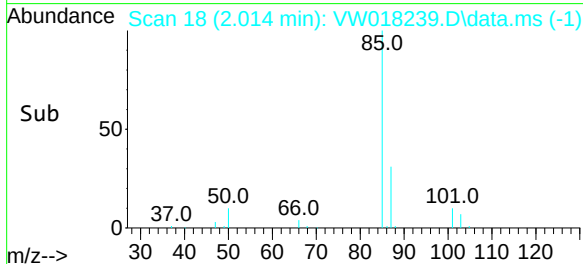
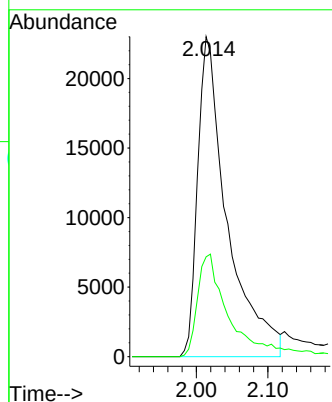
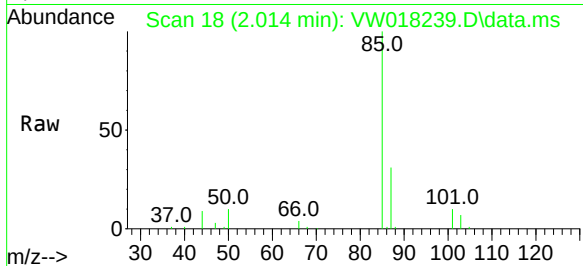




#2
Dichlorodifluoromethane
Concen: 12.27 ug/L
RT: 2.014 min Scan# 18
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

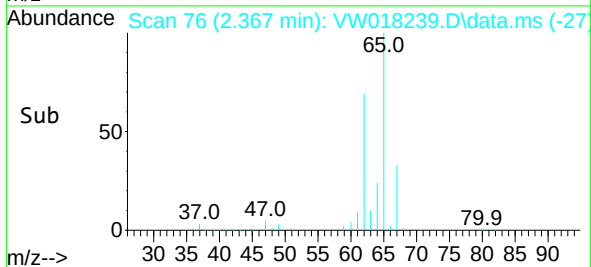
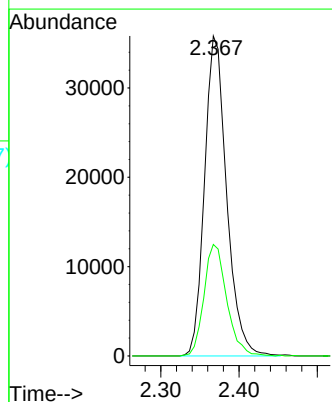
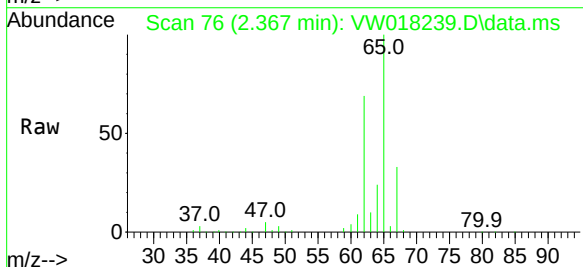
Instrument :
MSVOA_W
ClientSampled :
X3169

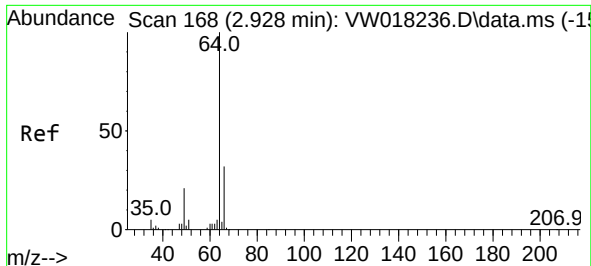
Tgt Ion: 85 Resp: 65935
Ion Ratio Lower Upper
85 100
87 30.6 23.3 34.9



#5
Vinyl chloride
Concen: 11.84 ug/L
RT: 2.367 min Scan# 76
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

Tgt Ion: 62 Resp: 70155
Ion Ratio Lower Upper
62 100
64 34.8 24.2 45.0

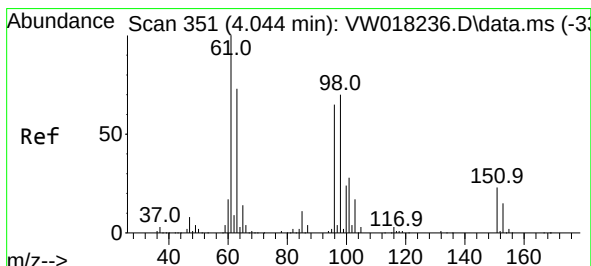
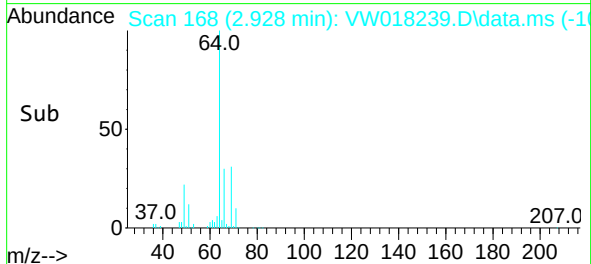
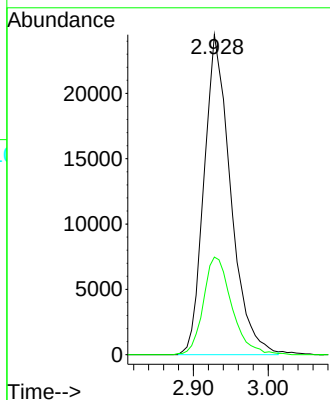
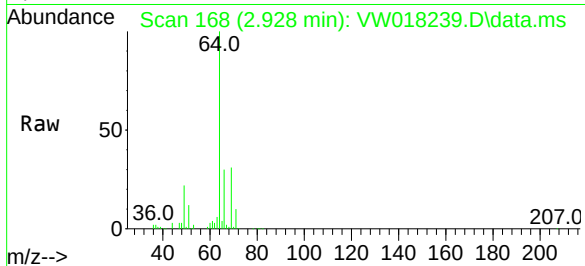




#8
Chloroethane
Concen: 18.30 ug/L
RT: 2.928 min Scan# 168
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

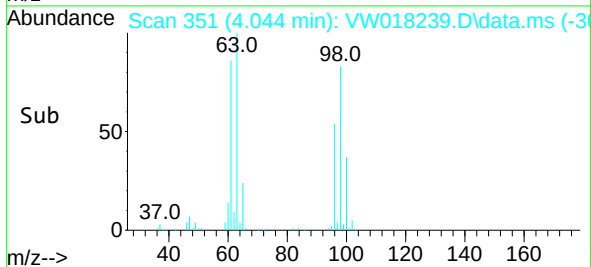
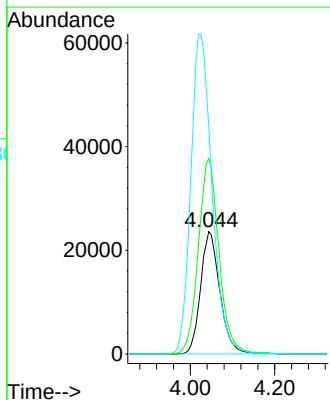
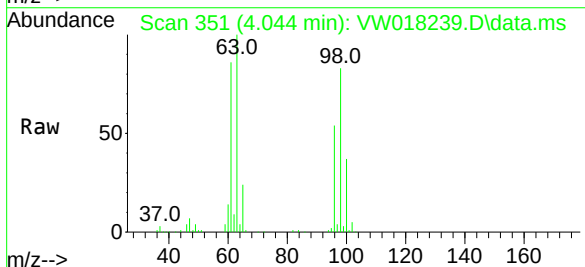
Instrument :
MSVOA_W
ClientSampled :
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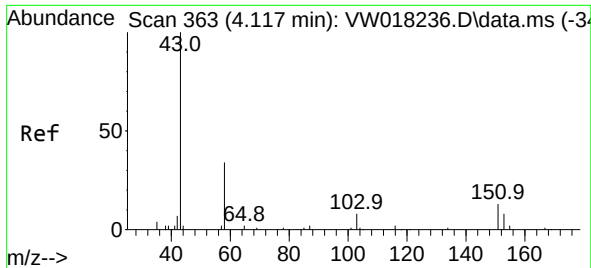
Tgt Ion: 64 Resp: 60652
Ion Ratio Lower Upper
64 100
66 30.5 23.4 43.6



#12
1,1-Dichloroethene
Concen: 13.43 ug/L
RT: 4.044 min Scan# 351
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

Tgt Ion: 96 Resp: 75137
Ion Ratio Lower Upper
96 100
61 159.6 118.1 219.3
63 186.2 83.7 155.5#

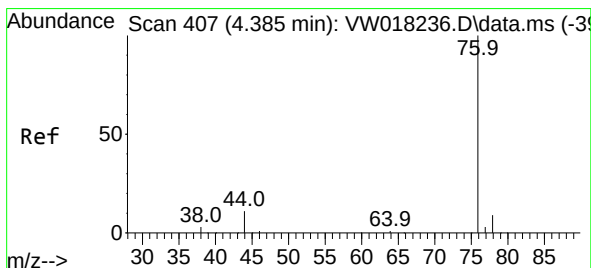
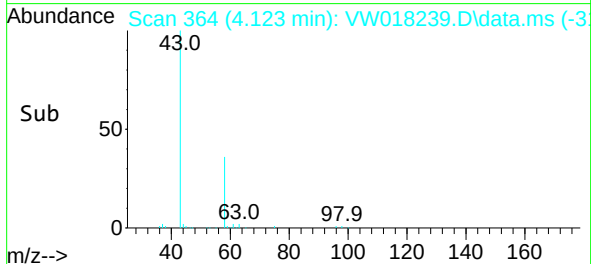
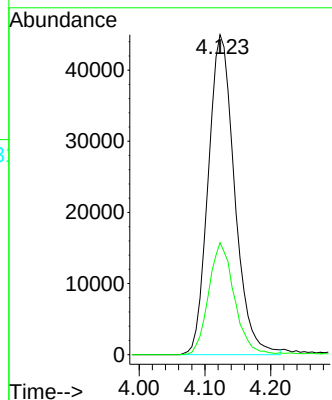
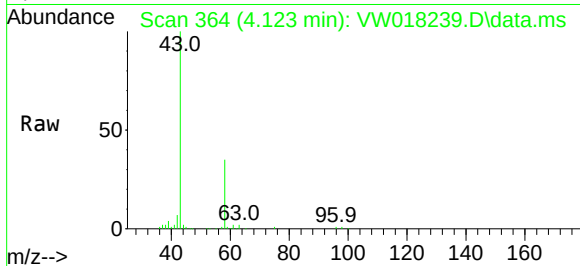




#13
Acetone
Concen: 171.42 ug/L
RT: 4.123 min Scan# 364
Delta R.T. 0.006 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

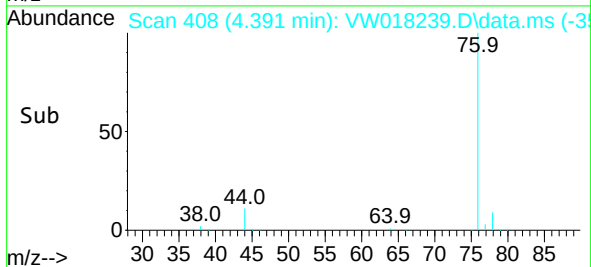
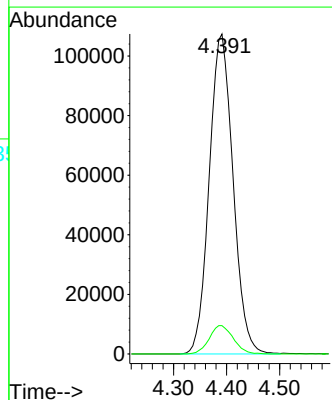
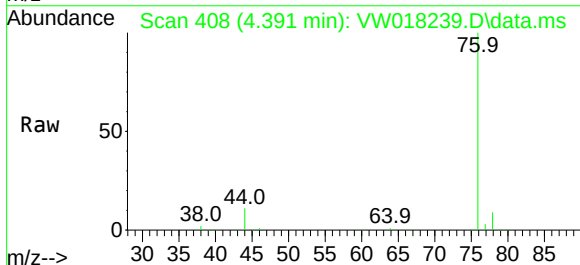
Instrument :
MSVOA_W
ClientSampled :
X3169

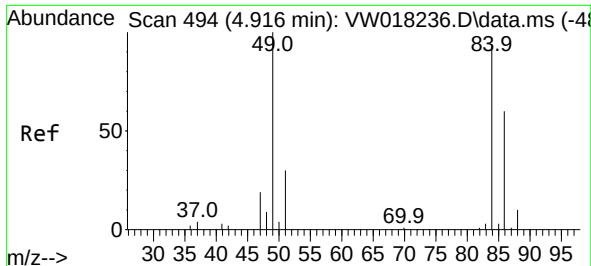
Tgt Ion: 43 Resp: 125415
Ion Ratio Lower Upper
43 100
58 34.0 0.0 53.8



#14
Carbon disulfide
Concen: 19.58 ug/L
RT: 4.391 min Scan# 408
Delta R.T. 0.006 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

Tgt Ion: 76 Resp: 334651
Ion Ratio Lower Upper
76 100
78 8.9 7.4 11.0

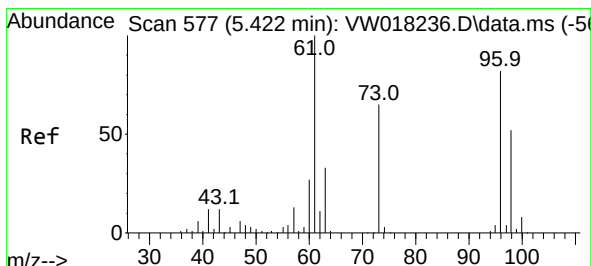
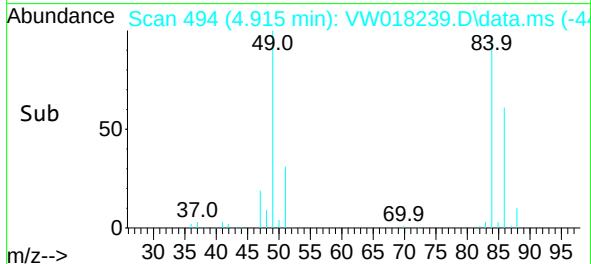
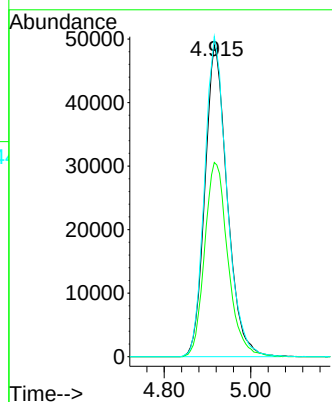
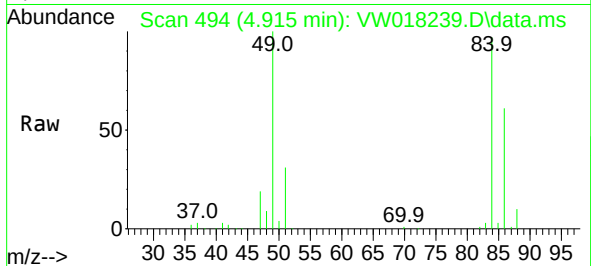




#16
Methylene chloride
Concen: 28.69 ug/L
RT: 4.915 min Scan# 494
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

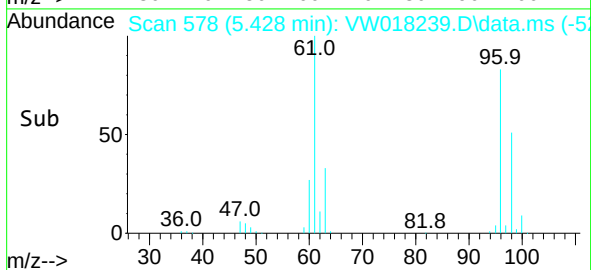
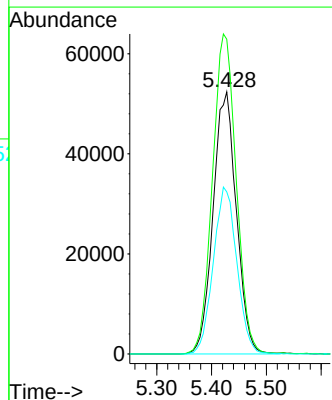
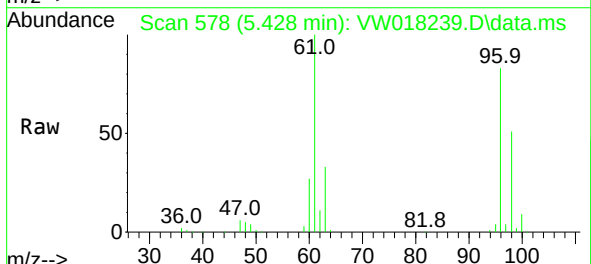
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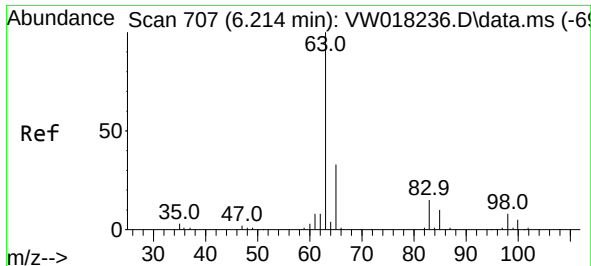
Tgt Ion: 84 Resp: 175836
Ion Ratio Lower Upper
84 100
86 62.4 45.3 84.1
49 102.7 86.6 160.8



#17
trans-1,2-Dichloroethene
Concen: 25.90 ug/L
RT: 5.428 min Scan# 578
Delta R.T. 0.006 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

Tgt Ion: 96 Resp: 154588
Ion Ratio Lower Upper
96 100
61 120.1 98.3 182.7
98 61.8 46.1 85.7





#19

1,1-Dichloroethane

Concen: 10.28 ug/L

RT: 6.214 min Scan# 707

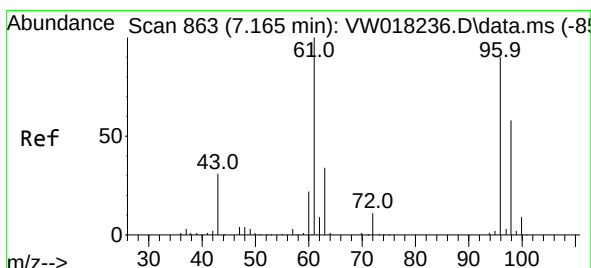
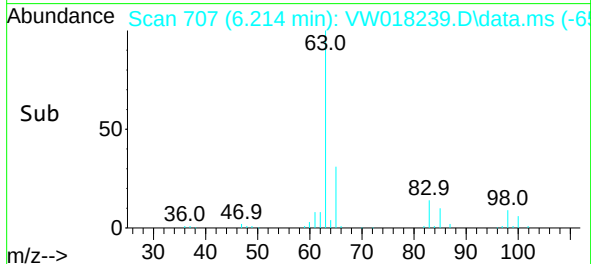
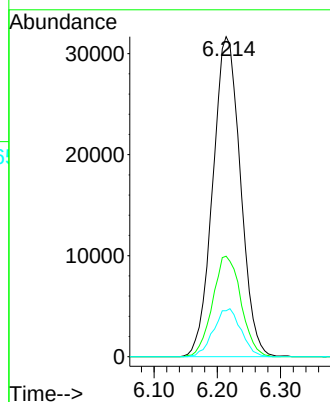
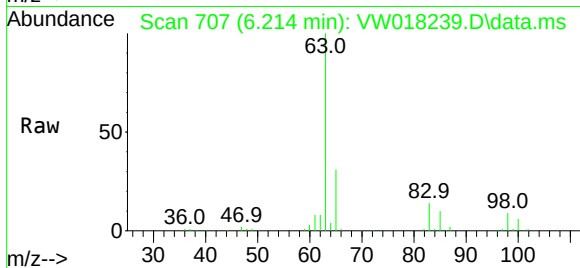
Delta R.T. -0.000 min

Lab File: VW018239.D

Acq: 25 Feb 2021 16:00

Tgt Ion: 63 Resp: 96089

Ion	Ratio	Lower	Upper
63	100		
65	31.4	22.9	42.5
83	14.4	10.2	19.0



#20

cis-1,2-Dichloroethene

Concen: 31.55 ug/L

RT: 7.171 min Scan# 864

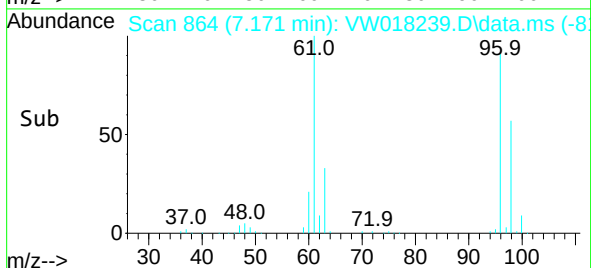
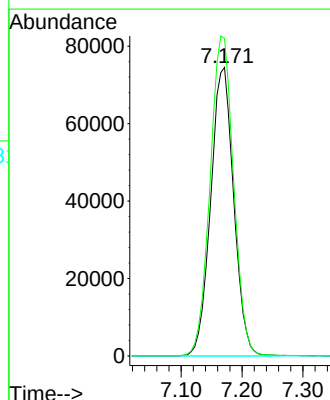
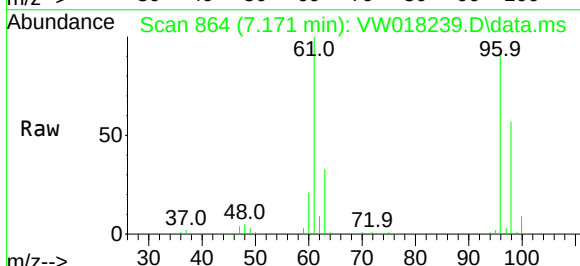
Delta R.T. 0.006 min

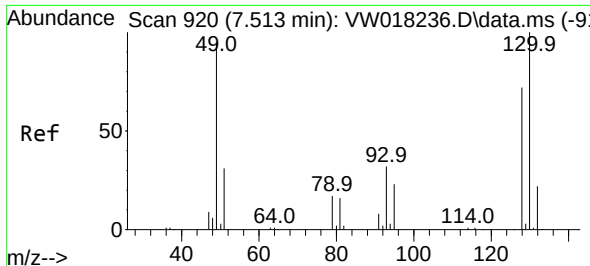
Lab File: VW018239.D

Acq: 25 Feb 2021 16:00

Tgt Ion: 96 Resp: 195674

Ion	Ratio	Lower	Upper
96	100		
61	110.0	88.5	164.3
68	0.0	0.0	0.0

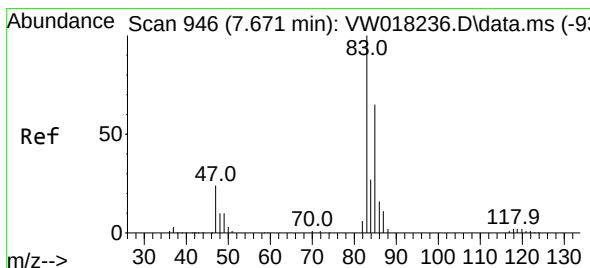
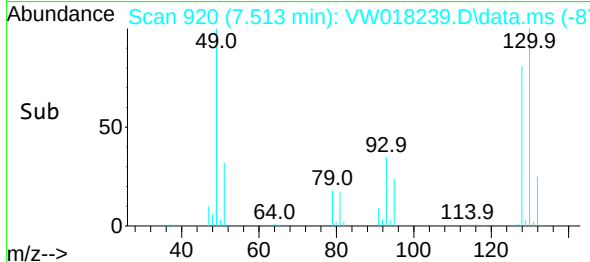
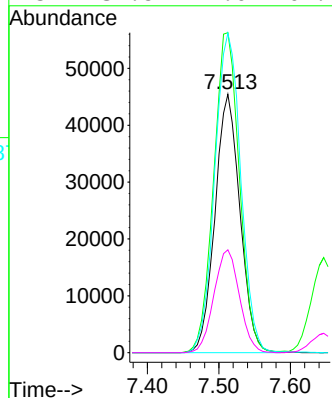
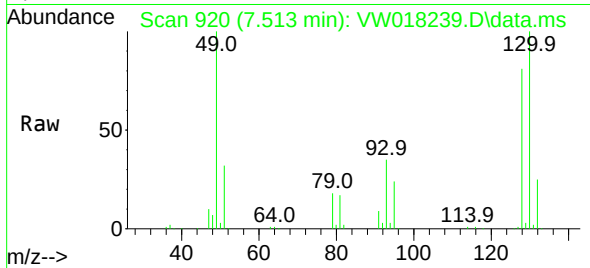




#23
Bromochloromethane
Concen: 37.28 ug/L
RT: 7.513 min Scan# 920
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

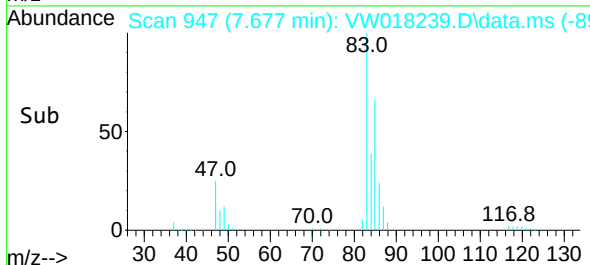
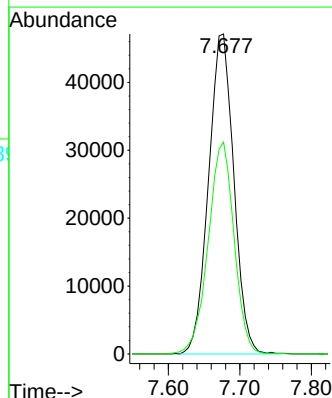
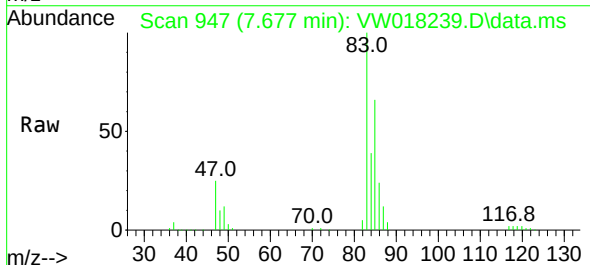
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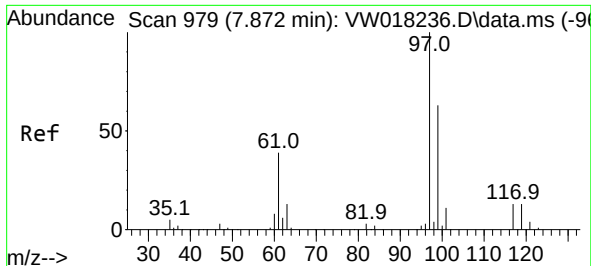
Tgt Ion:128 Resp: 110297
Ion Ratio Lower Upper
128 100
49 123.9 116.3 215.9
130 123.7 82.4 153.0
51 39.8 42.6 64.0#



#25
Chloroform
Concen: 11.37 ug/L
RT: 7.677 min Scan# 947
Delta R.T. 0.006 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

Tgt Ion: 83 Resp: 115688
Ion Ratio Lower Upper
83 100
85 66.2 44.6 82.8

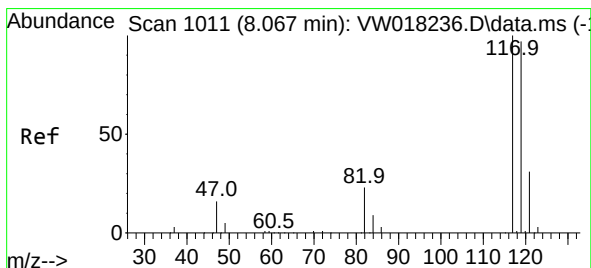
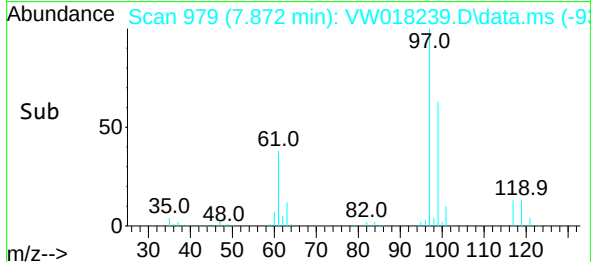
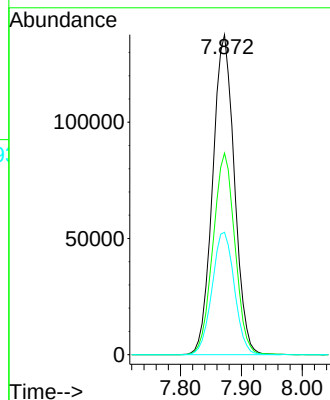
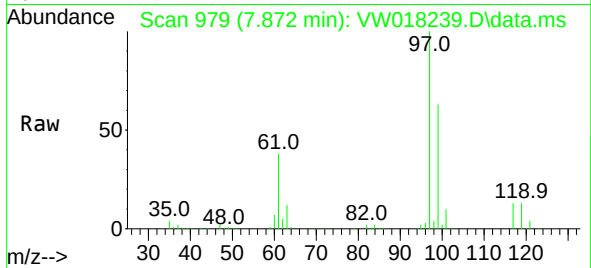




#30
1,1,1-Trichloroethane
Concen: 41.56 ug/L
RT: 7.872 min Scan# 979
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

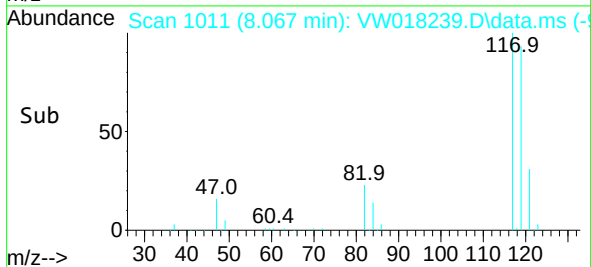
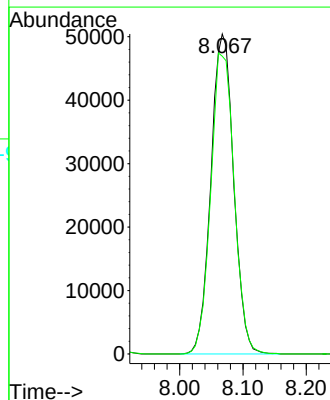
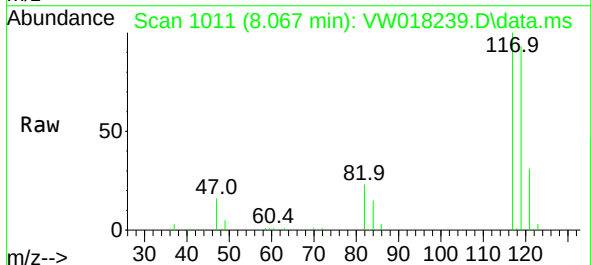
Instrument :
MSVOA_W
ClientSampled :
X3169

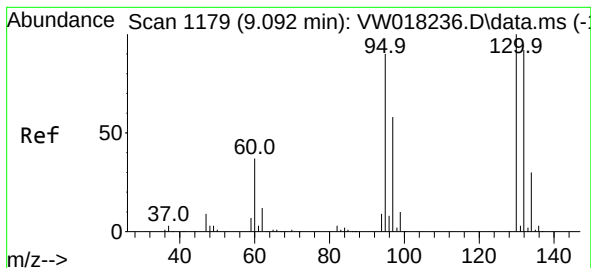
Tgt Ion: 97 Resp: 340926
Ion Ratio Lower Upper
97 100
99 63.6 51.4 77.2
61 39.3 37.8 56.6



#31
Carbon tetrachloride
Concen: 15.86 ug/L
RT: 8.067 min Scan# 1011
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

Tgt Ion: 117 Resp: 126148
Ion Ratio Lower Upper
117 100
119 96.7 76.5 114.7



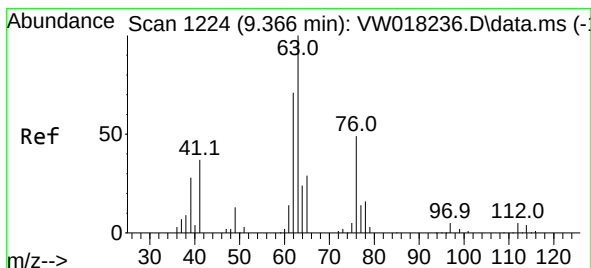
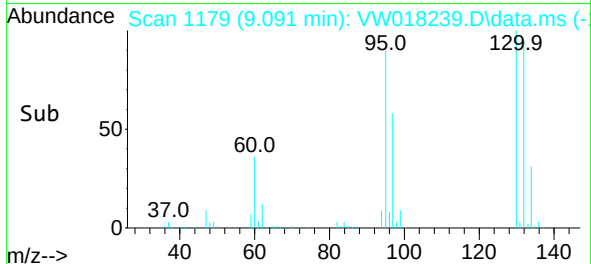
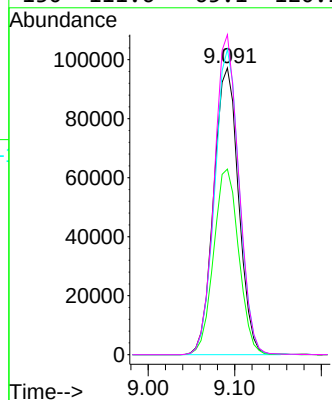
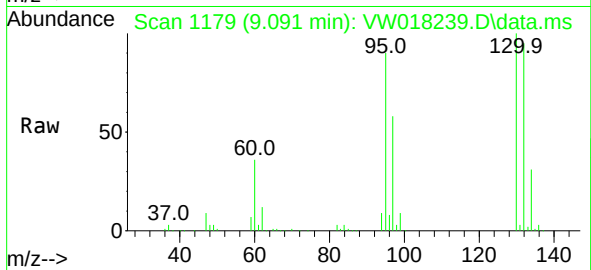


#34
Trichloroethene
Concen: 31.87 ug/L
RT: 9.091 min Scan# 1179
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

Instrument :
MSVOA_W
ClientSampled :
X3169

Tgt Ion: 95 Resp: 194275

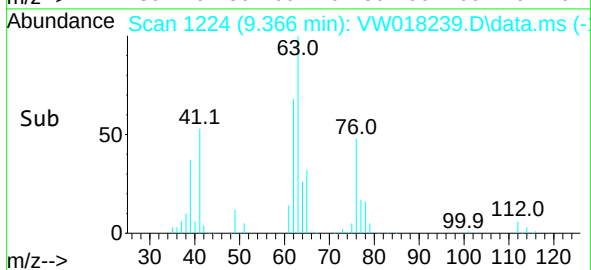
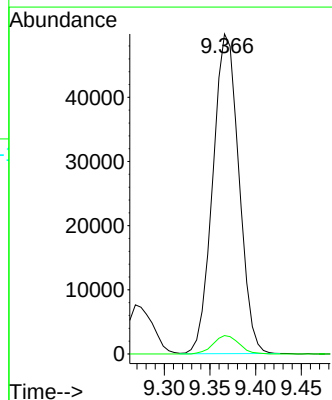
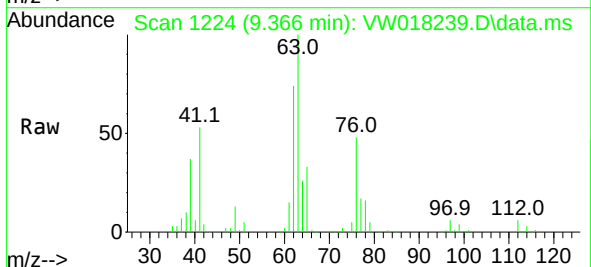
Ion	Ratio	Lower	Upper
95	100		
97	64.7	47.3	87.8
132	106.5	71.0	131.8
130	111.6	65.1	120.9

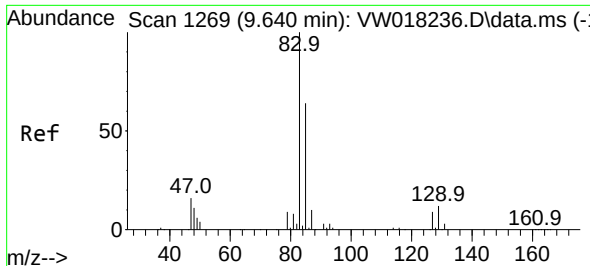


#37
1,2-Dichloropropane
Concen: 19.65 ug/L
RT: 9.366 min Scan# 1224
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

Tgt Ion: 63 Resp: 99005

Ion	Ratio	Lower	Upper
63	100		
112	5.7	3.9	5.9

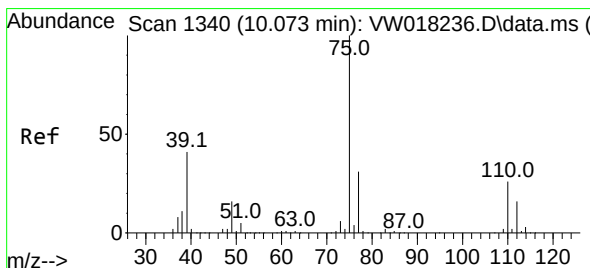
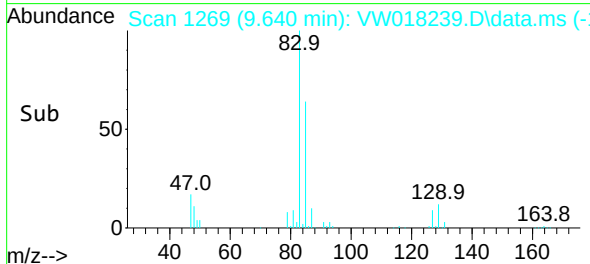
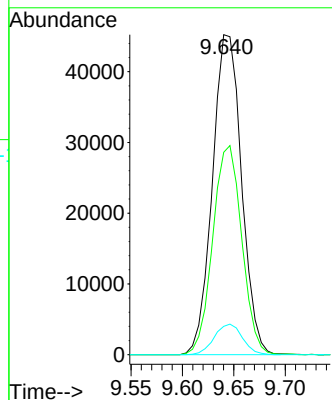
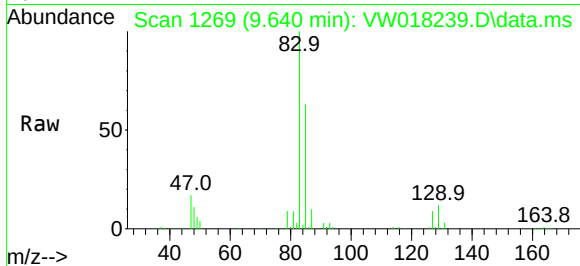




#38
Bromodichloromethane
Concen: 12.63 ug/L
RT: 9.640 min Scan# 1269
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

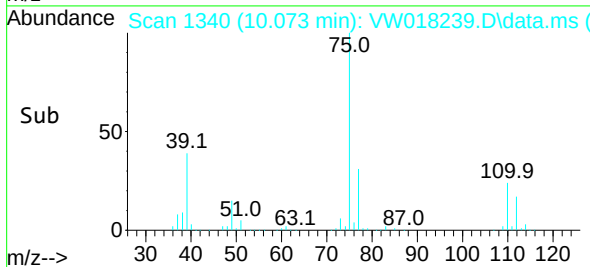
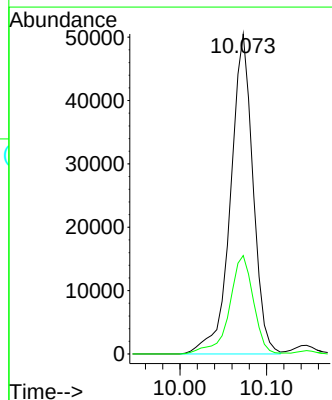
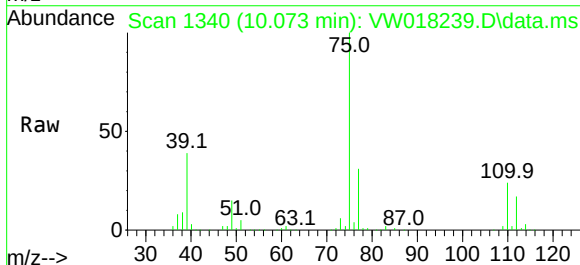
Instrument :
MSVOA_W
ClientSampled :
X3169

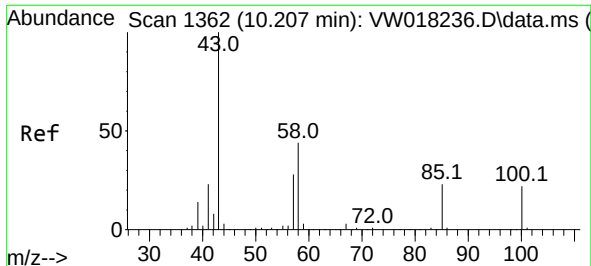
Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.3	42.3	78.5
127	8.9	6.6	9.8



#39
cis-1,3-Dichloropropene
Concen: 11.25 ug/L
RT: 10.073 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.7	22.6	42.0

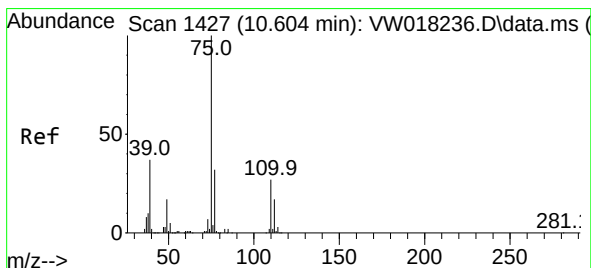
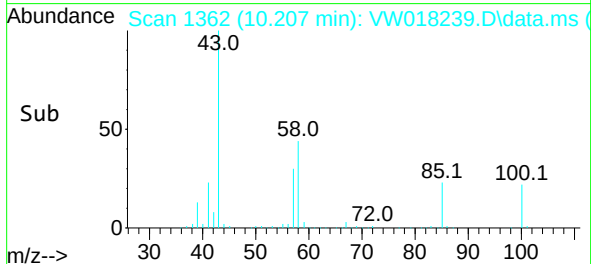
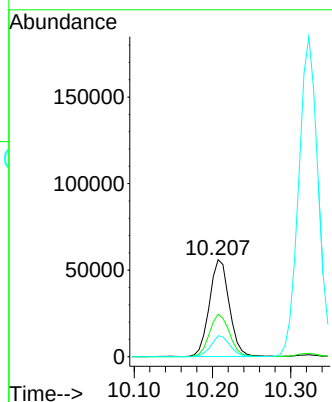
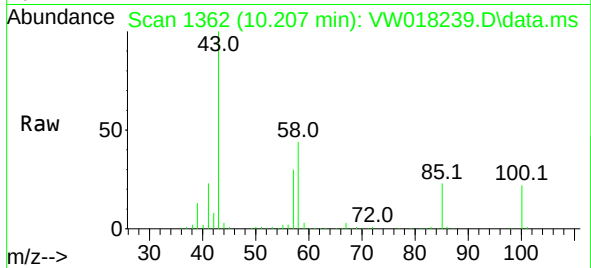




#40
4-Methyl-2-pentanone
Concen: 38.69 ug/L
RT: 10.207 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

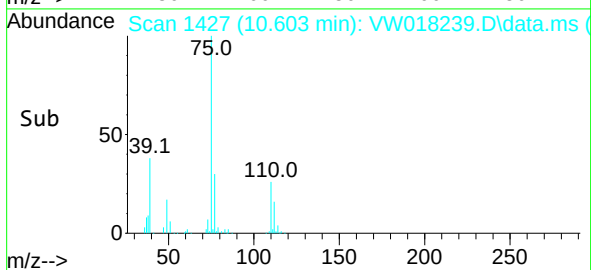
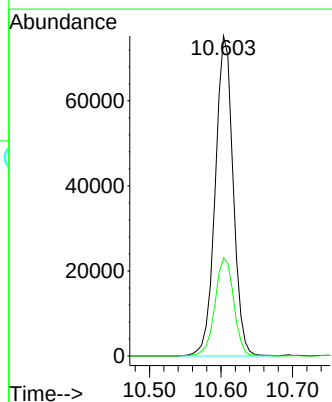
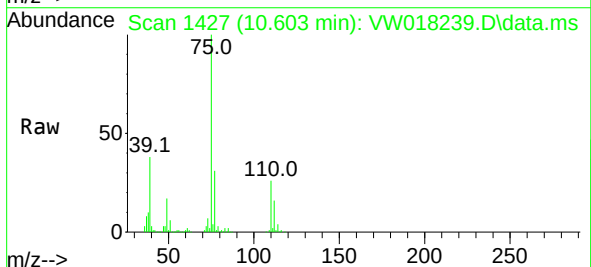
Instrument :
MSVOA_W
ClientSampled :
X3169

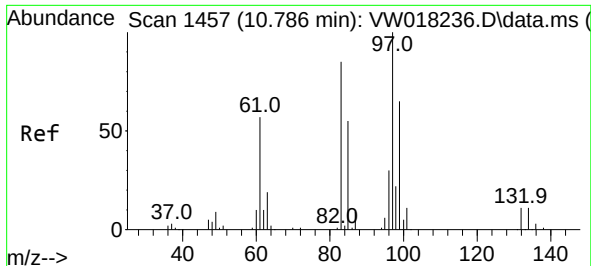
Tgt Ion: 43 Resp: 98982
Ion Ratio Lower Upper
43 100
58 44.1 31.0 46.4
100 20.9 13.0 19.6#



#44
trans-1,3-Dichloropropene
Concen: 18.85 ug/L
RT: 10.603 min Scan# 1427
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

Tgt Ion: 75 Resp: 130583
Ion Ratio Lower Upper
75 100
77 30.6 21.1 39.1

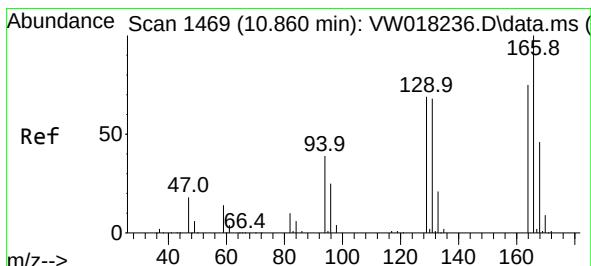
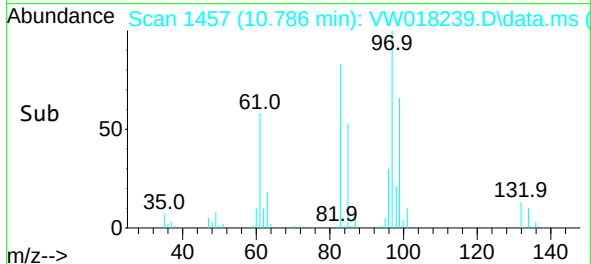
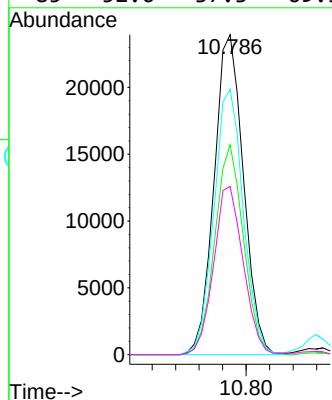
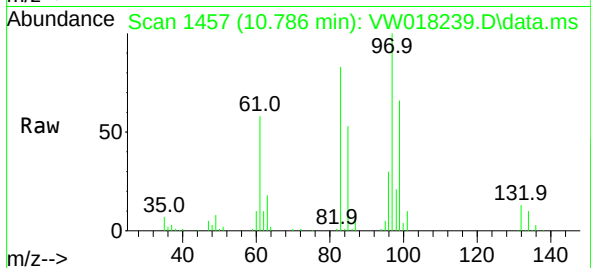




#45
1,1,2-Trichloroethane
Concen: 10.08 ug/L
RT: 10.786 min Scan# 1457
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

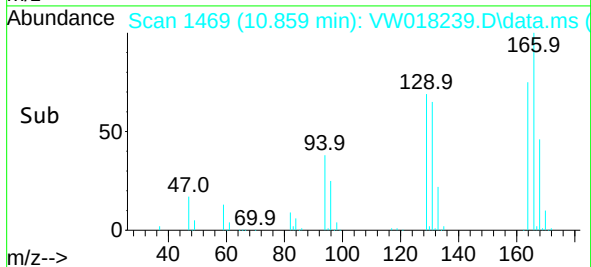
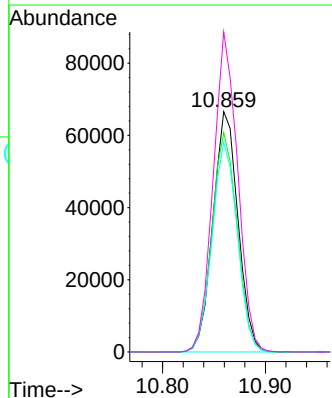
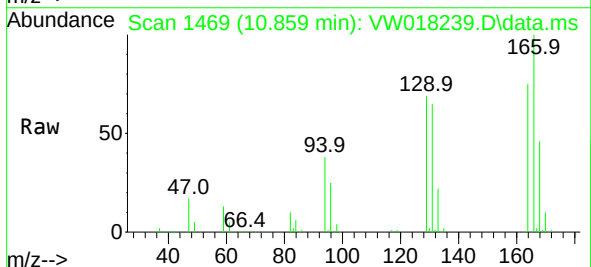
Instrument :
MSVOA_W
ClientSampled :
X3169

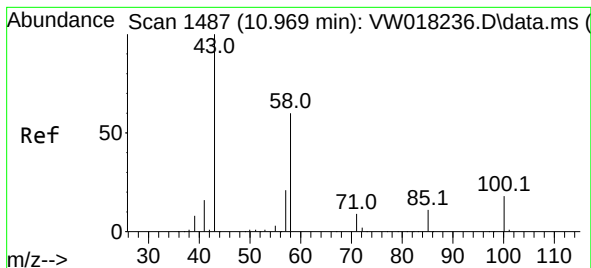
Tgt Ion:	97	Resp:	41558
Ion	Ratio	Lower	Upper
97	100		
99	65.6	45.1	83.7
83	83.0	58.1	107.9
85	52.6	37.3	69.3



#46
Tetrachloroethene
Concen: 20.87 ug/L
RT: 10.859 min Scan# 1469
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

Tgt Ion:	164	Resp:	112757
Ion	Ratio	Lower	Upper
164	100		
129	91.3	66.7	123.9
131	87.2	61.1	113.5
166	133.2	87.0	161.6

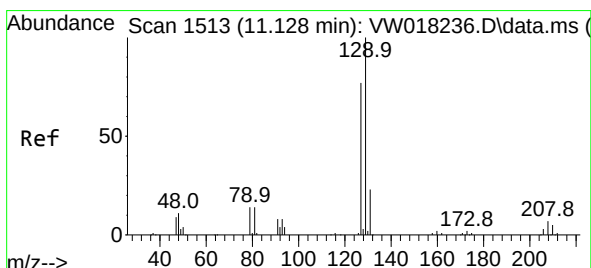
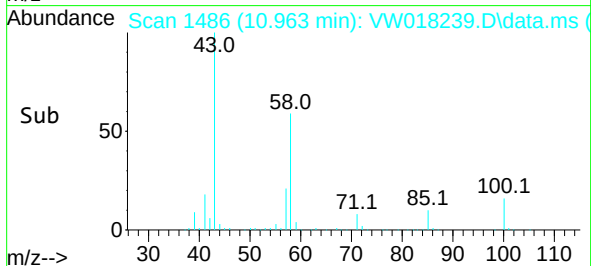
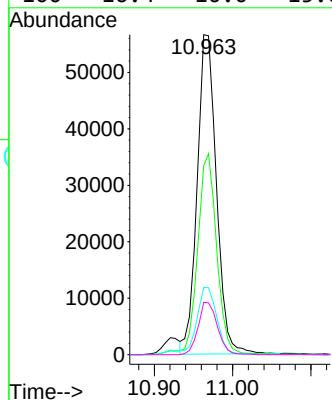
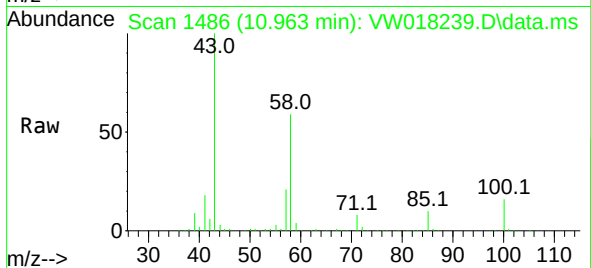




#48
2-Hexanone
Concen: 55.53 ug/L
RT: 10.963 min Scan# 1486
Delta R.T. -0.006 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

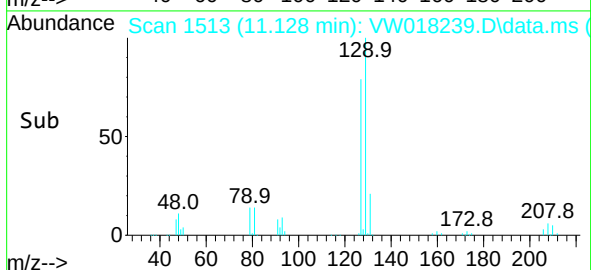
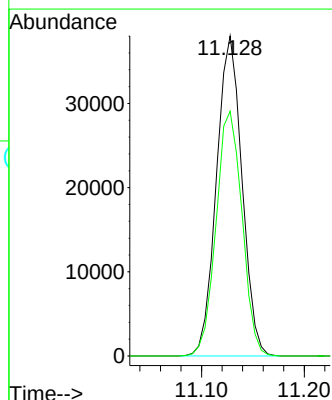
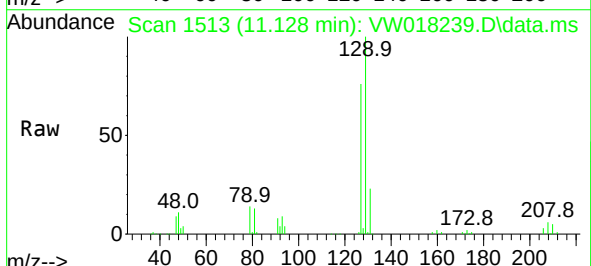
Instrument :
MSVOA_W
ClientSampled :
X3169

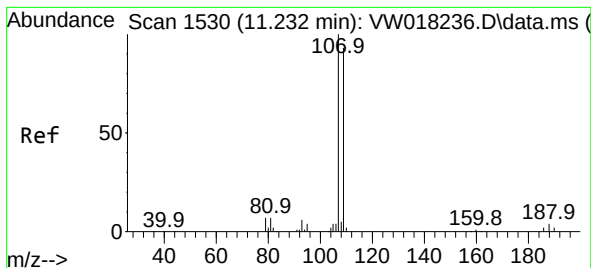
Tgt Ion:	43	Resp:	96974
Ion	Ratio	Lower	Upper
43	100		
58	61.2	42.7	64.1
57	21.4	15.8	23.8
100	16.4	10.0	15.0



#49
Dibromochloromethane
Concen: 12.85 ug/L
RT: 11.128 min Scan# 1513
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

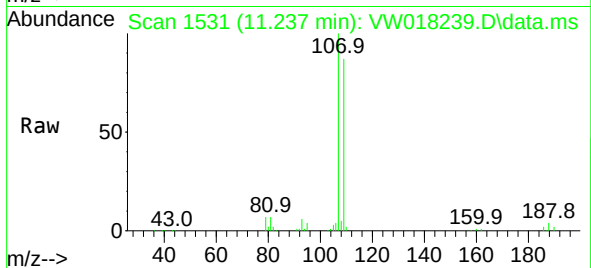
Tgt Ion:	129	Resp:	65462
Ion	Ratio	Lower	Upper
129	100		
127	76.4	51.7	95.9



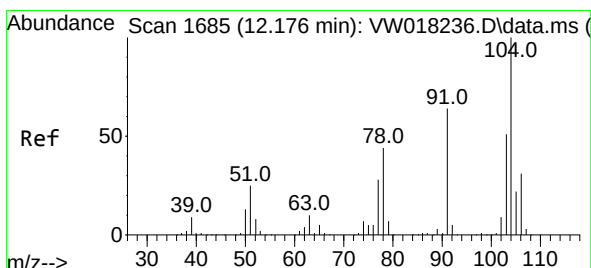
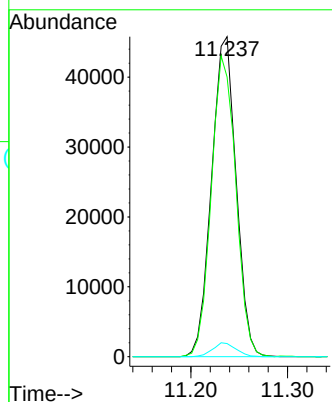
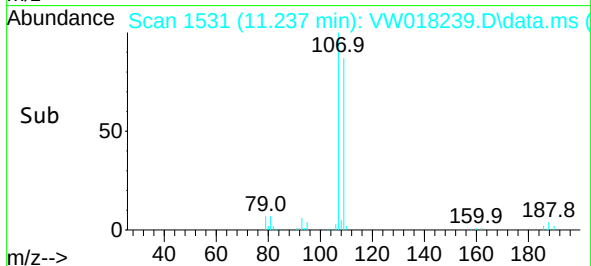


#50
1,2-Dibromoethane
Concen: 20.03 ug/L
RT: 11.237 min Scan# 1531
Delta R.T. 0.006 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

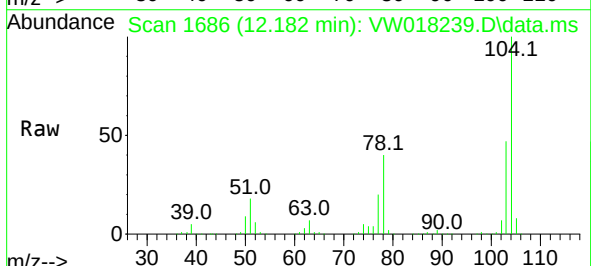
Instrument :
MSVOA_W
ClientSampleId :
X3169



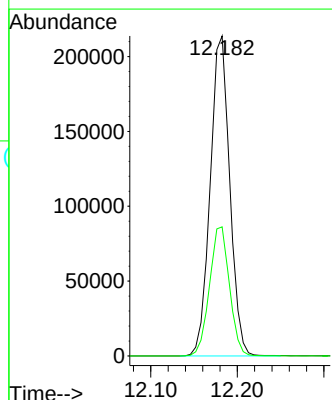
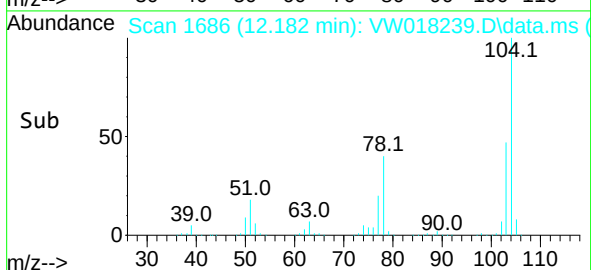
Tgt Ion:107 Resp: 80926
Ion Ratio Lower Upper
107 100
109 87.4 65.4 121.4
188 4.1 2.6 4.0#

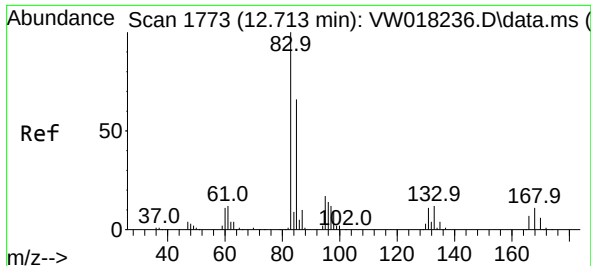


#55
Styrene
Concen: 19.95 ug/L
RT: 12.182 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00



Tgt Ion:104 Resp: 334875
Ion Ratio Lower Upper
104 100
78 40.3 32.5 60.3

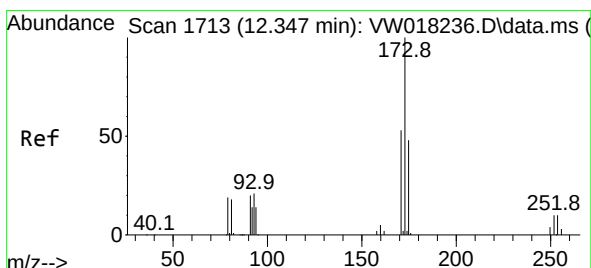
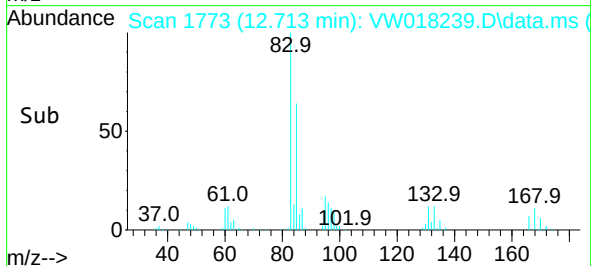
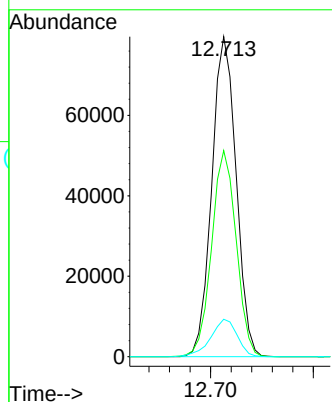
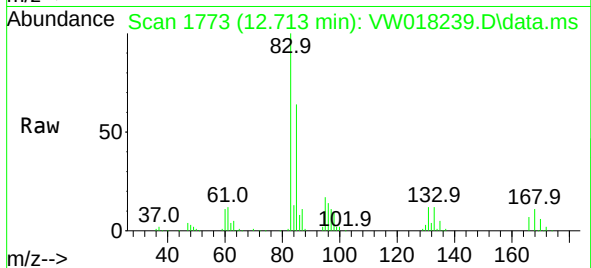




#57
1,1,2,2-Tetrachloroethane
Concen: 28.32 ug/L
RT: 12.713 min Scan# 1773
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

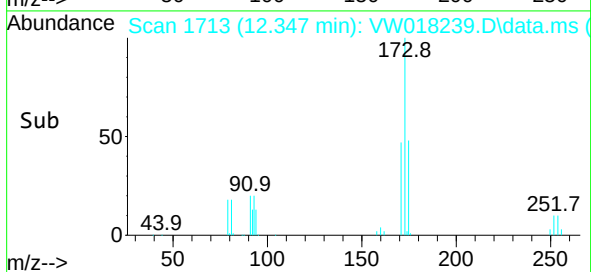
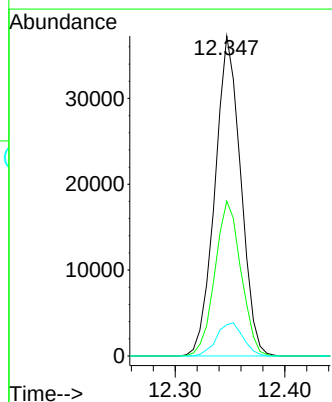
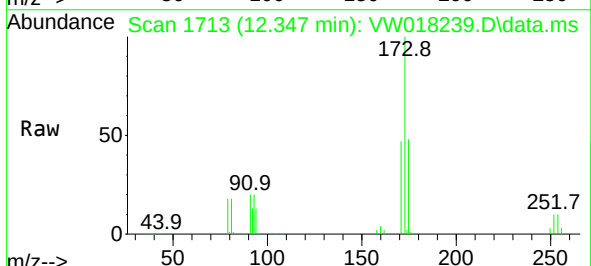
Instrument :
MSVOA_W
ClientSampled :
X3169

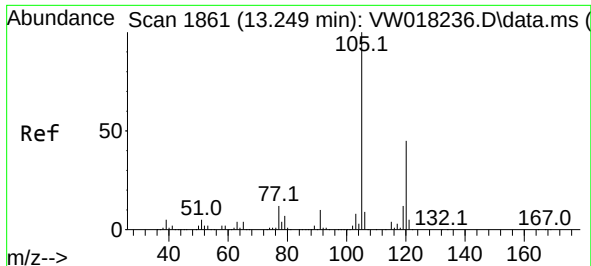
Tgt Ion: 83 Resp: 130706
Ion Ratio Lower Upper
83 100
85 64.4 44.4 82.4
131 11.7 8.2 12.4



#59
Bromoform
Concen: 20.29 ug/L
RT: 12.347 min Scan# 1713
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

Tgt Ion:173 Resp: 60950
Ion Ratio Lower Upper
173 100
175 48.9 37.5 56.3
254 10.7 7.0 10.4#

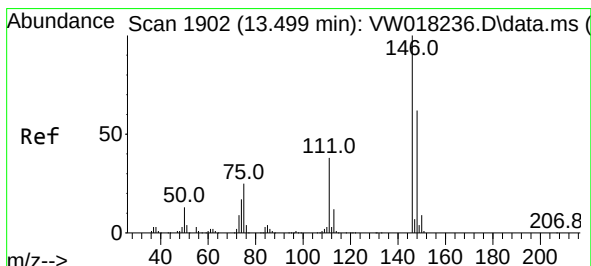
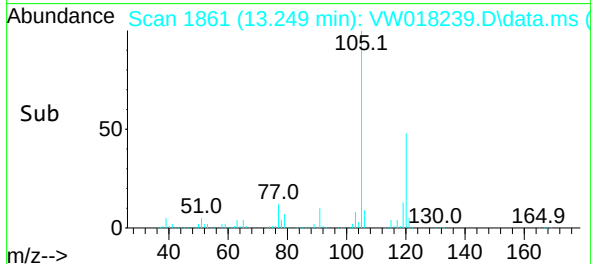
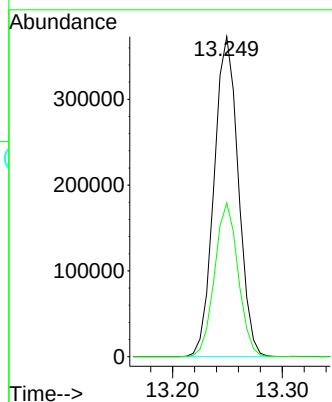
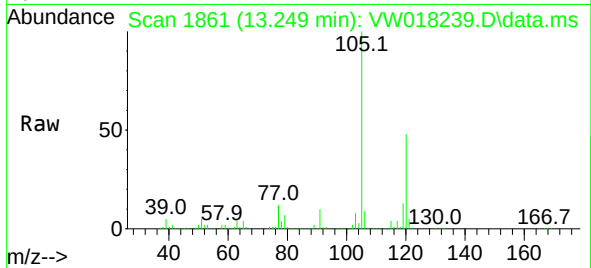




#63
1,2,4-Trimethylbenzene
Concen: 24.91 ug/L
RT: 13.249 min Scan# 1861
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

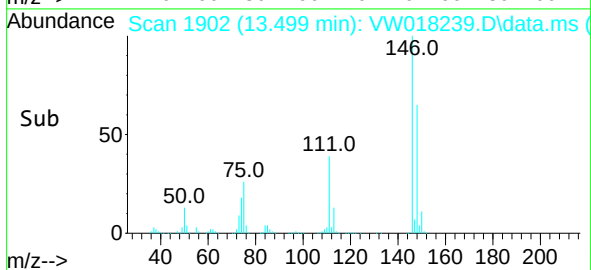
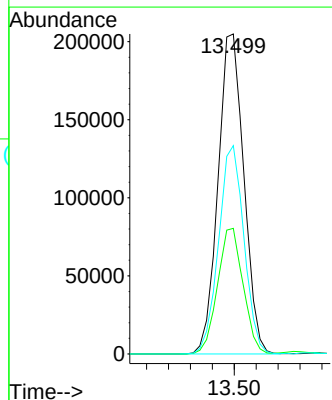
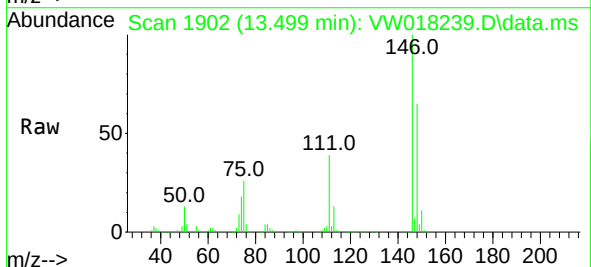
Instrument :
MSVOA_W
ClientSampled :
X3169

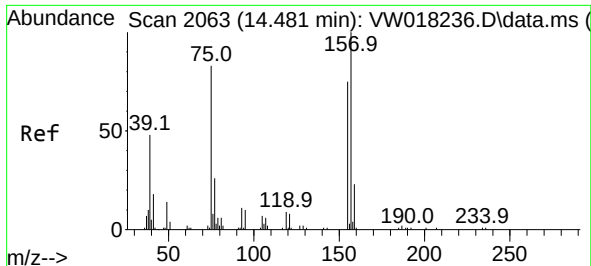
Tgt Ion:105 Resp: 573479
Ion Ratio Lower Upper
105 100
120 46.6 35.6 53.4



#64
1,3-Dichlorobenzene
Concen: 25.33 ug/L
RT: 13.499 min Scan# 1902
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

Tgt Ion:146 Resp: 335515
Ion Ratio Lower Upper
146 100
111 39.3 26.7 49.7
148 65.1 41.1 76.3

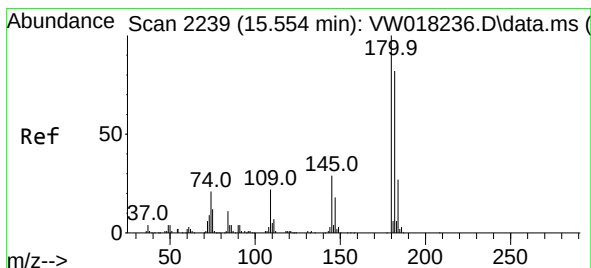
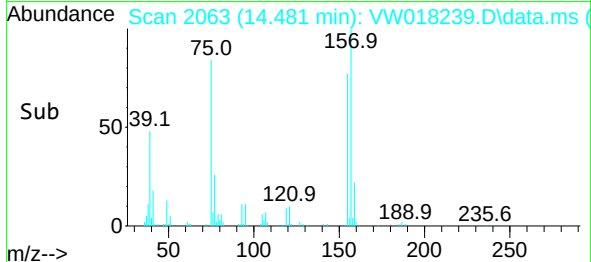
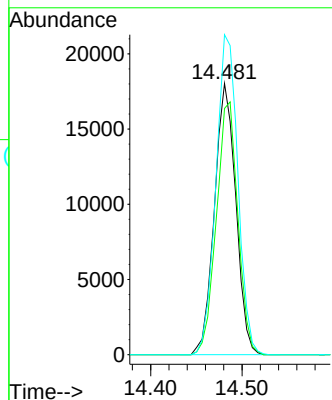
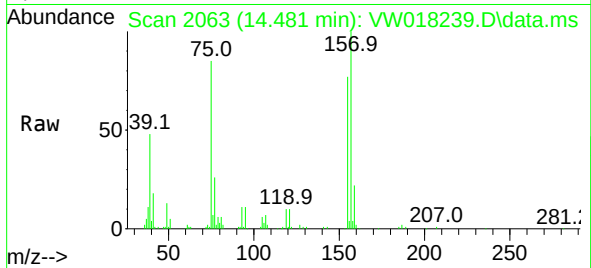




#68
1,2-Dibromo-3-chloropropane
Concen: 38.89 ug/L
RT: 14.481 min Scan# 2063
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

Instrument :
MSVOA_W
ClientSampled :
X3169

Tgt Ion: 75 Resp: 29226
Ion Ratio Lower Upper
75 100
155 90.8 59.4 89.0#
157 118.0 72.2 108.2#



#72
1,2,3-Trichlorobenzene
Concen: 9.80 ug/L
RT: 15.554 min Scan# 2239
Delta R.T. -0.000 min
Lab File: VW018239.D
Acq: 25 Feb 2021 16:00

Tgt Ion: 180 Resp: 72339
Ion Ratio Lower Upper
180 100
182 94.5 76.7 115.1
145 32.0 28.9 43.3

