

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW032321\
 Data File : VW018424.D
 Acq On : 23 Mar 2021 14:17
 Operator : SY/VA
 Sample : M1784-01
 Misc : 4.94G/10ML/MSVOA_W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BG4X4

Quant Time: Mar 24 01:24:54 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SOM2WLM031921S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Mar 24 01:23:39 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	531990	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.628	117	485677	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.554	152	214426	25.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.355	65	177706	24.00	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery =	96.00%		
7) Chloroethane-d5	2.892	69	158597	24.47	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery =	97.88%		
10) 1,1-Dichloroethene-d2	4.013	63	213234	16.68	ug/L	-0.01
Spiked Amount 25.000	Range 45 - 110		Recovery =	66.72%		
20) 2-Butanone-d5	7.074	46	73077	44.34	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery =	88.68%		
24) Chloroform-d	7.647	84	292898	21.62	ug/L	0.00
Spiked Amount 25.000	Range 40 - 150		Recovery =	86.48%		
26) 1,2-Dichloroethane-d4	8.305	65	177743	22.47	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	89.88%		
29) Benzene-d6	8.269	84	569070	22.04	ug/L	0.00
Spiked Amount 25.000	Range 20 - 135		Recovery =	88.16%		
33) 1,2-Dichloropropane-d6	9.275	67	165126	22.17	ug/L	0.00
Spiked Amount 25.000	Range 70 - 120		Recovery =	88.68%		
37) Toluene-d8	10.323	98	526334	21.17	ug/L	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	84.68%		
38) trans-1,3-Dichloroprop...	10.579	79	78410	20.41	ug/L	0.00
Spiked Amount 25.000	Range 30 - 135		Recovery =	81.64%		
39) 2-Hexanone-d5	10.921	63	60208	41.31	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery =	82.62%		
48) 1,1,2,2-Tetrachloroeth...	12.689	84	140213	21.05	ug/L	0.00
Spiked Amount 25.000	Range 45 - 120		Recovery =	84.20%		
61) 1,2-Dichlorobenzene-d4	13.853	152	162743	21.35	ug/L	0.00
Spiked Amount 25.000	Range 75 - 120		Recovery =	85.40%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.014	85	1650	0.27	ug/L	92
5) Vinyl chloride	2.367	62	3651	0.36	ug/L #	1
6) Bromomethane	2.782	94	2412	0.33	ug/L	25
9) Trichlorofluoromethane	3.257	101	849	0.17	ug/L	83
12) 1,1-Dichloroethene	4.032	96	1795	0.27	ug/L #	1
13) Acetone	4.129	43	2023	1.71	ug/L	79
16) Methylene chloride	4.909	84	7059	0.81	ug/L	93
22) cis-1,2-Dichloroethene	7.171	96	1594	0.21	ug/L	74
30) Cyclohexane	7.952	56	3061	0.27	ug/L #	54
36) Methylcyclohexane	9.329	83	3258	0.24	ug/L #	87
44) Toluene	10.384	91	7560	0.24	ug/L	88
45) trans-1,3-Dichloropropene	10.573	75	4730	0.45	ug/L	100
53) Ethylbenzene	11.731	91	8236	0.23	ug/L	96
55) o-xylene	12.164	106	3027	0.23	ug/L	90
58) 1,1,2,2-Tetrachloroethane	12.713	83	2266	0.34	ug/L #	80
59) 1,2,3-Trichloropropane	12.768	75	1034	0.21	ug/L	89
63) 1,3-Dichlorobenzene	13.493	146	4433	0.32	ug/L	94
64) 1,4-Dichlorobenzene	13.573	146	4860	0.35	ug/L	90
65) 1,2-Dichlorobenzene	13.865	146	4103	0.33	ug/L #	80
67) 1,3,5-Trichlorobenzene	14.627	180	3846	0.39	ug/L	92

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BG4X4

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SOM2WLM031921S.M
Quant Title : VOC Analysis
QLast Update : Wed Mar 24 01:23:39 2021
Response via : Initial Calibration

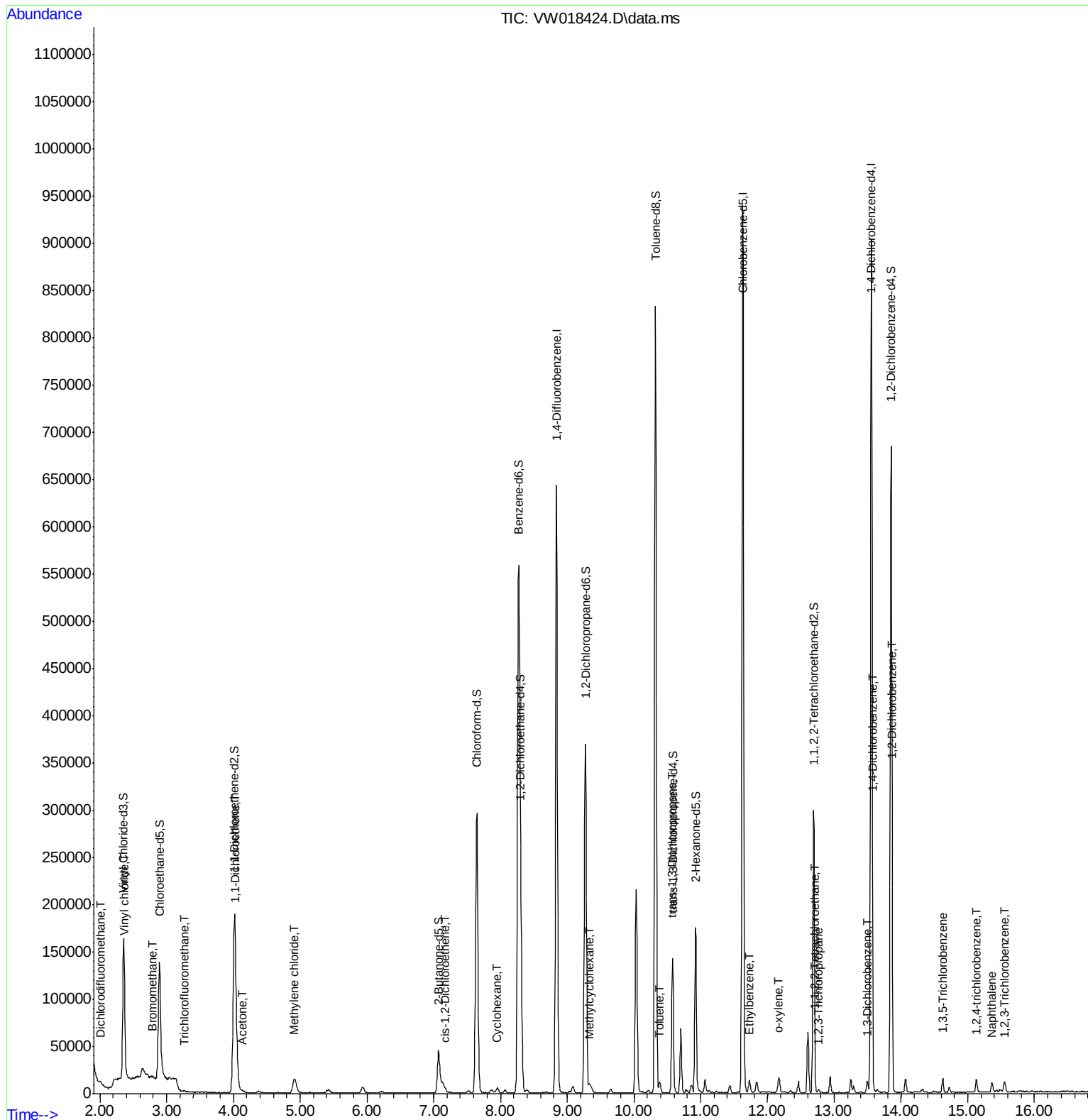
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,2,4-trichlorobenzene	15.127	180	3802	0.45	ug/L	95
69)	Naphthalene	15.365	128	8522	0.49	ug/L #	96
70)	1,2,3-Trichlorobenzene	15.548	180	3552	0.48	ug/L	99

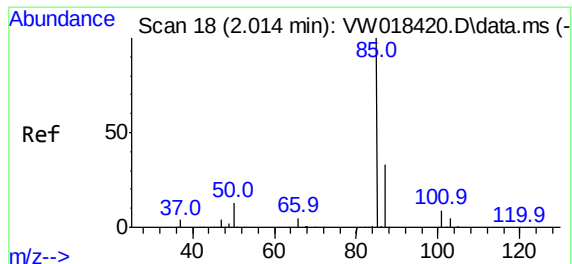
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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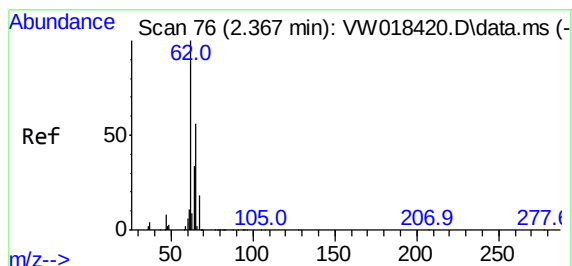
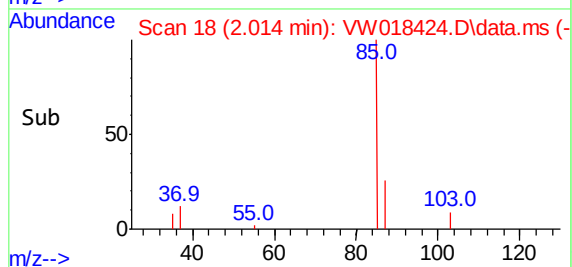
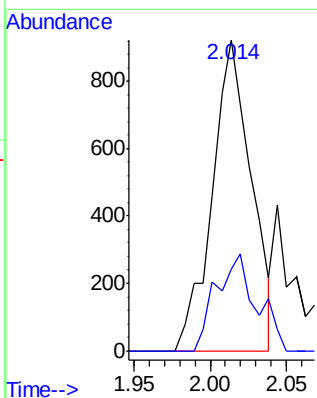
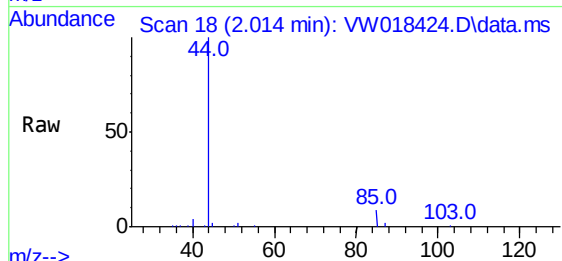




#2
Dichlorodifluoromethane
Concen: 0.27 ug/L
RT: 2.014 min Scan# 18
Delta R.T. -0.000 min
Lab File: VW018424.D
Acq: 23 Mar 2021 14:17

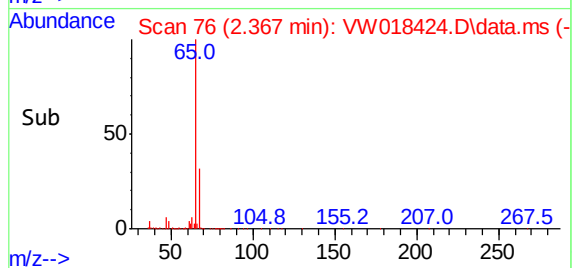
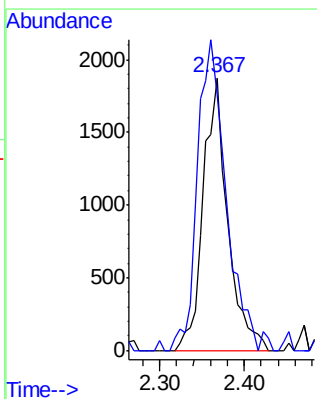
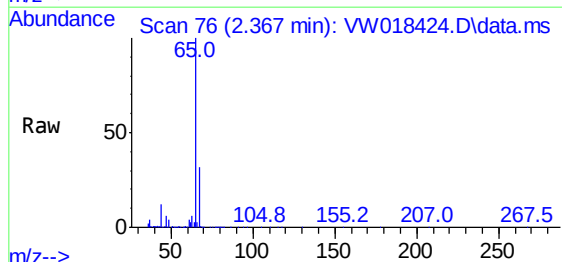
Instrument :
MSVOA_W
ClientSampled :
BG4X4

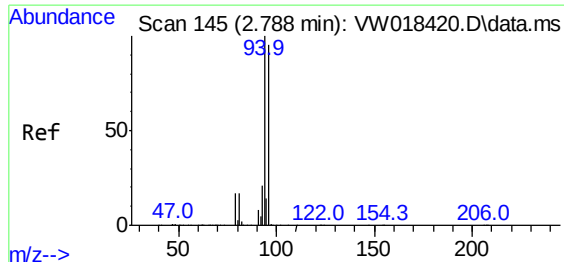
Tgt Ion: 85 Resp: 1650
Ion Ratio Lower Upper
85 100
87 27.2 22.2 41.2



#5
Vinyl chloride
Concen: 0.36 ug/L
RT: 2.367 min Scan# 76
Delta R.T. -0.000 min
Lab File: VW018424.D
Acq: 23 Mar 2021 14:17

Tgt Ion: 62 Resp: 3651
Ion Ratio Lower Upper
62 100
64 94.0 23.5 43.7#

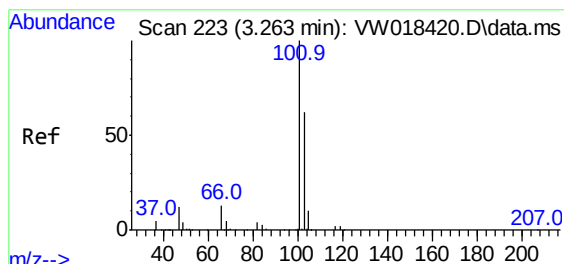
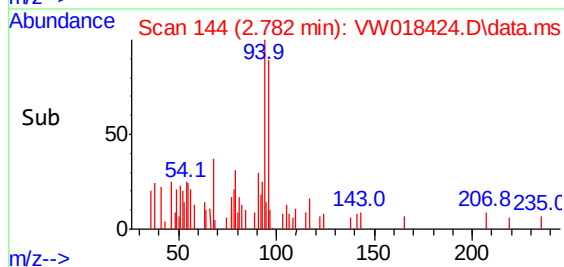
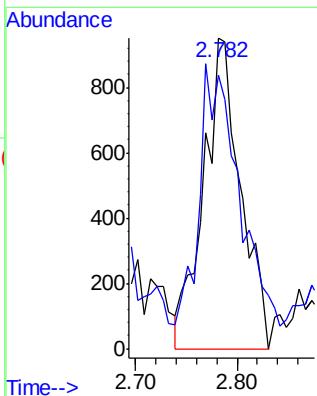
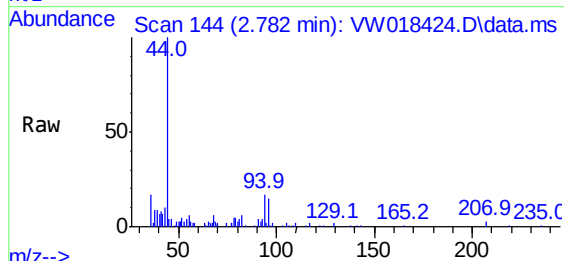




#6
Bromomethane
Concen: 0.33 ug/L
RT: 2.782 min Scan# 144
Delta R.T. -0.006 min
Lab File: VW018424.D
Acq: 23 Mar 2021 14:17

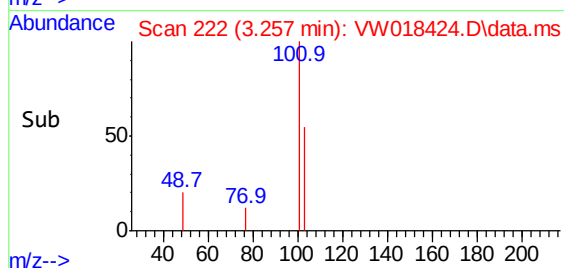
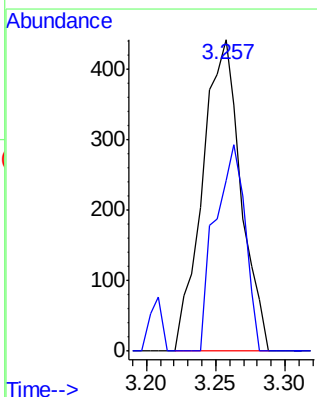
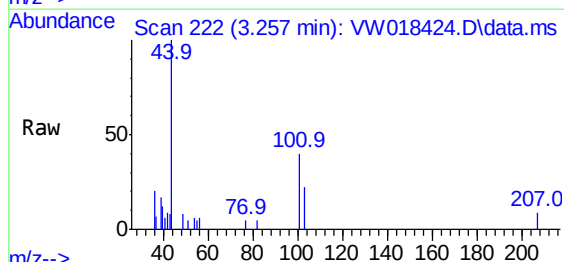
Instrument :
MSVOA_W
ClientSampled :
BG4X4

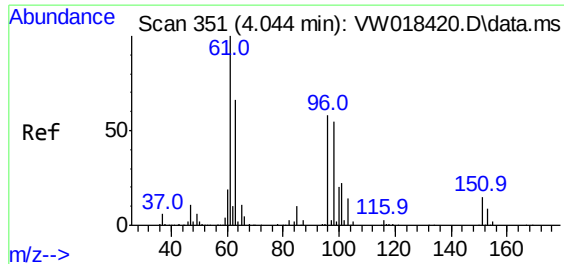
Tgt Ion: 94 Resp: 2412
Ion Ratio Lower Upper
94 100
96 22.0 9.4 179.4



#9
Trichlorofluoromethane
Concen: 0.17 ug/L
RT: 3.257 min Scan# 222
Delta R.T. -0.006 min
Lab File: VW018424.D
Acq: 23 Mar 2021 14:17

Tgt Ion: 101 Resp: 849
Ion Ratio Lower Upper
101 100
103 51.7 45.6 84.8

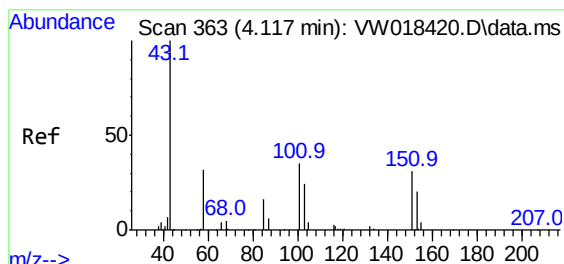
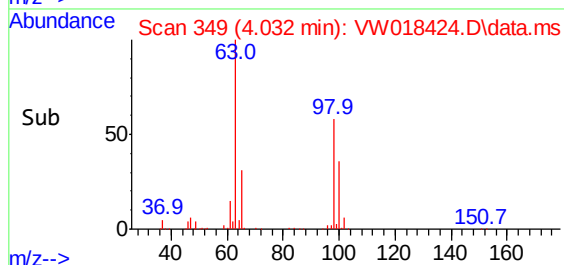
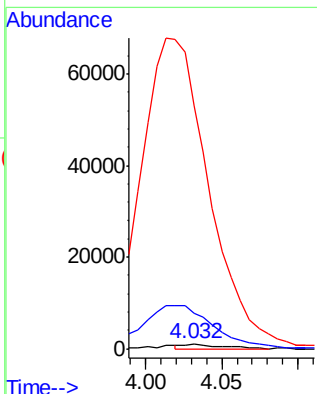
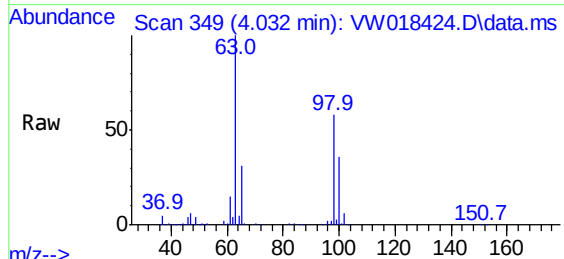




#12
1,1-Dichloroethene
Concen: 0.27 ug/L
RT: 4.032 min Scan# 349
Delta R.T. -0.012 min
Lab File: VW018424.D
Acq: 23 Mar 2021 14:17

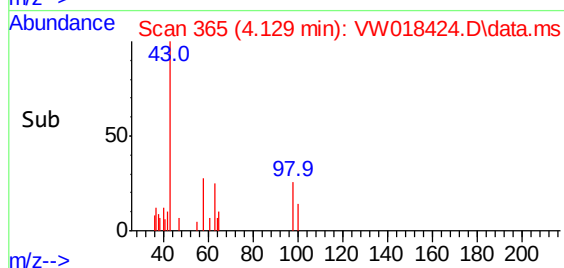
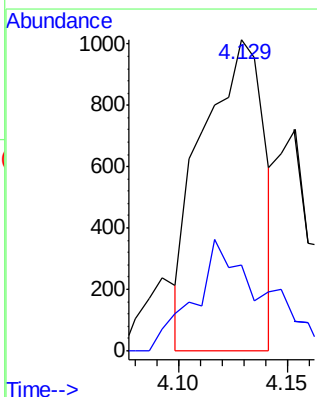
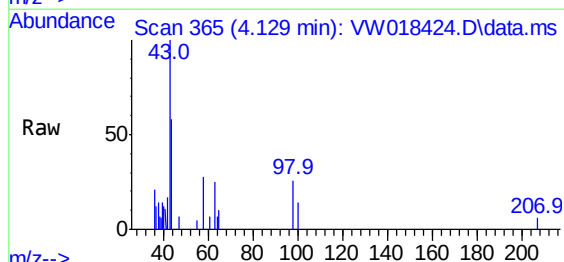
Instrument :
MSVOA_W
ClientSampleId :
BG4X4

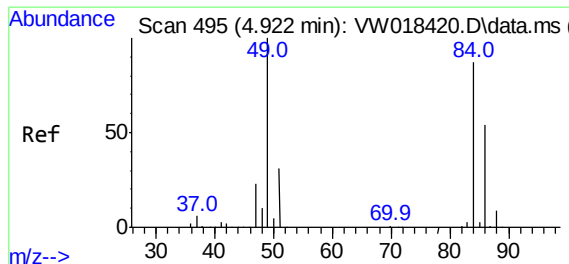
Tgt Ion: 96 Resp: 1795
Ion Ratio Lower Upper
96 100
61 736.6 118.6 220.2#
63 4952.5 82.4 153.0#



#13
Acetone
Concen: 1.71 ug/L
RT: 4.129 min Scan# 365
Delta R.T. 0.012 min
Lab File: VW018424.D
Acq: 23 Mar 2021 14:17

Tgt Ion: 43 Resp: 2023
Ion Ratio Lower Upper
43 100
58 19.4 0.0 62.2



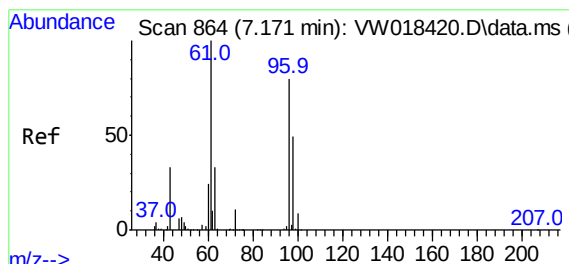
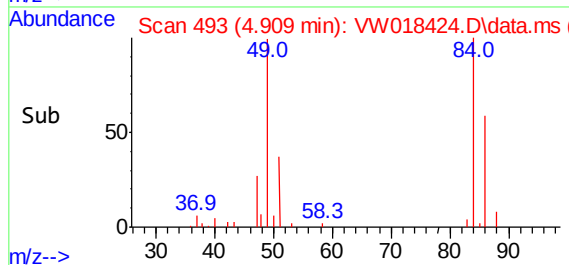
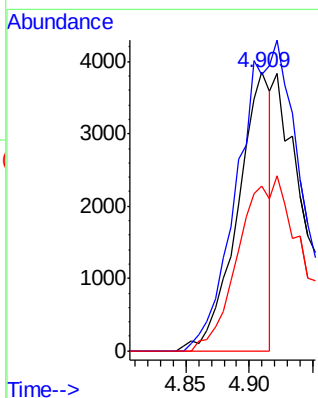
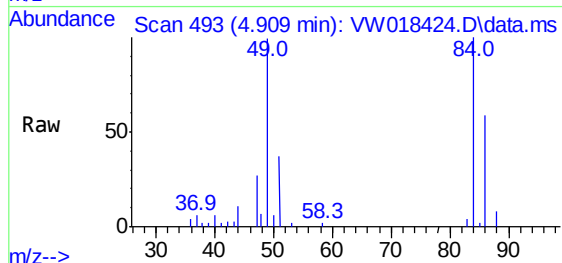


#16
Methylene chloride
Concen: 0.81 ug/L
RT: 4.909 min Scan# 493
Delta R.T. -0.012 min
Lab File: VW018424.D
Acq: 23 Mar 2021 14:17

Instrument :
MSVOA_W
ClientSampled :
BG4X4

Tgt Ion: 84 Resp: 7059

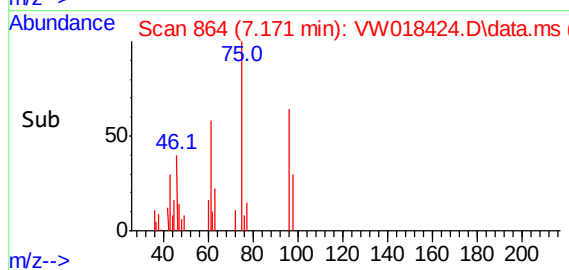
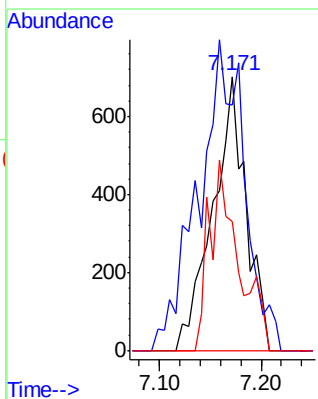
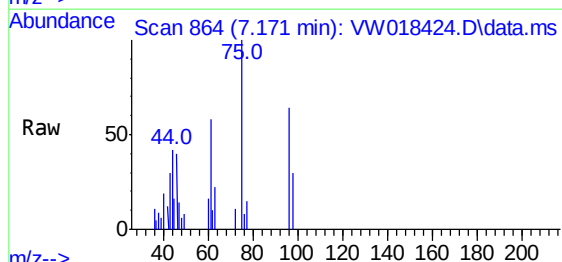
Ion	Ratio	Lower	Upper
84	100		
49	99.0	74.4	138.2
86	59.4	46.1	85.7

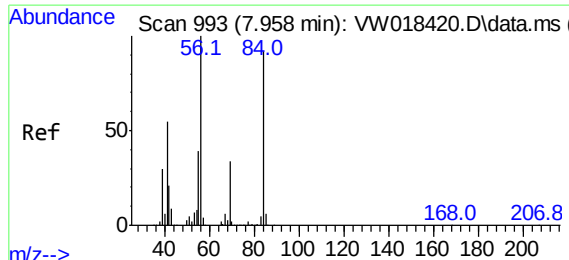


#22
cis-1,2-Dichloroethene
Concen: 0.21 ug/L
RT: 7.171 min Scan# 864
Delta R.T. -0.000 min
Lab File: VW018424.D
Acq: 23 Mar 2021 14:17

Tgt Ion: 96 Resp: 1594

Ion	Ratio	Lower	Upper
96	100		
61	89.8	84.8	157.6
98	46.9	45.1	83.9

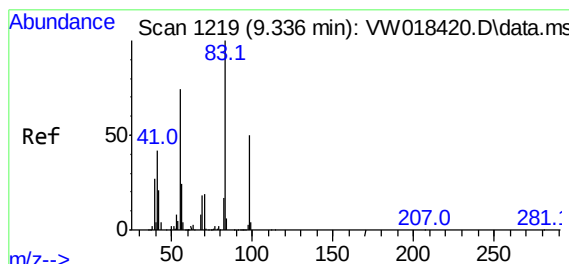
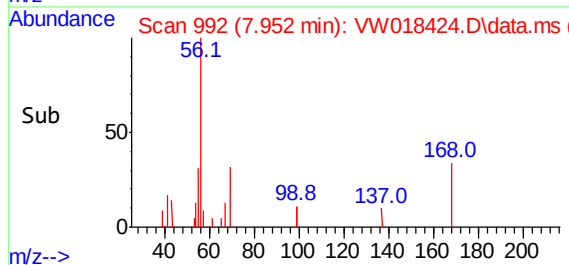
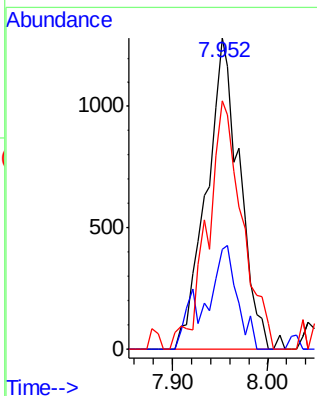
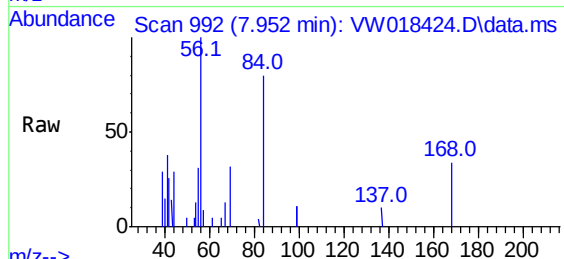




#30
Cyclohexane
Concen: 0.27 ug/L
RT: 7.952 min Scan# 992
Delta R.T. -0.006 min
Lab File: VW018424.D
Acq: 23 Mar 2021 14:17

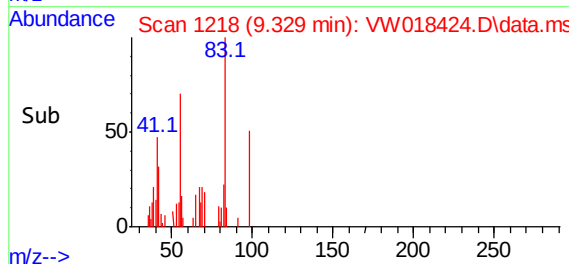
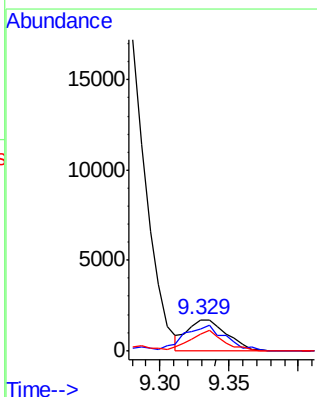
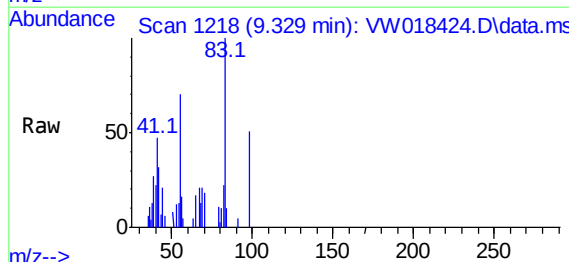
Instrument :
MSVOA_W
ClientSampled :
BG4X4

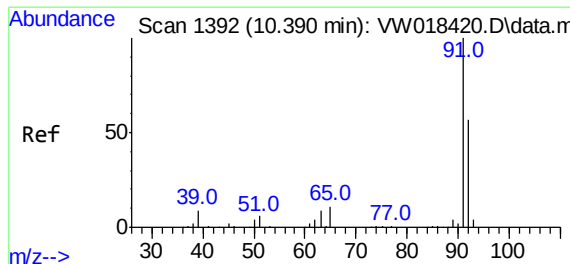
Tgt Ion: 56 Resp: 3061
Ion Ratio Lower Upper
56 100
69 25.3 27.0 40.6#
84 43.9 79.9 119.9#



#36
Methylcyclohexane
Concen: 0.24 ug/L
RT: 9.329 min Scan# 1218
Delta R.T. -0.006 min
Lab File: VW018424.D
Acq: 23 Mar 2021 14:17

Tgt Ion: 83 Resp: 3258
Ion Ratio Lower Upper
83 100
55 86.9 56.8 85.2#
98 54.1 40.6 61.0





#44

Toluene

Concen: 0.24 ug/L

RT: 10.384 min Scan# 1391

Delta R.T. -0.006 min

Lab File: VW018424.D

Acq: 23 Mar 2021 14:17

Tgt Ion: 91 Resp: 7560

Ion Ratio Lower Upper

91 100

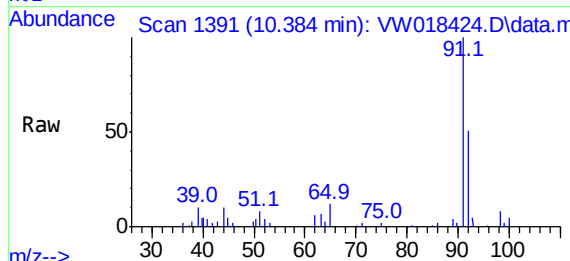
92 51.5 42.3 78.5

Instrument :

MSVOA_W

ClientSampleId :

BG4X4



Abundance

10.384

4000

3000

2000

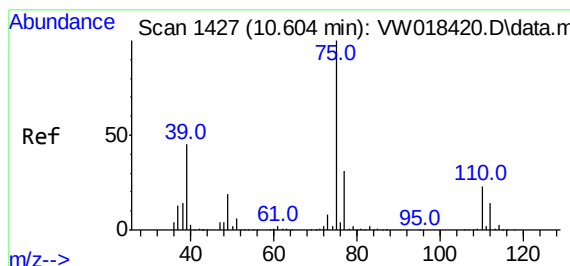
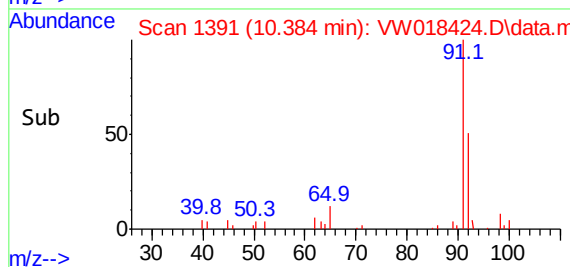
1000

0

10.30

10.45

Time-->



#45

trans-1,3-Dichloropropene

Concen: 0.45 ug/L

RT: 10.573 min Scan# 1422

Delta R.T. -0.031 min

Lab File: VW018424.D

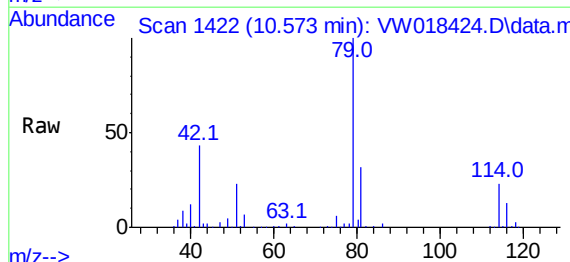
Acq: 23 Mar 2021 14:17

Tgt Ion: 75 Resp: 4730

Ion Ratio Lower Upper

75 100

77 32.3 22.6 42.0



Abundance

10.573

2500

2000

1500

1000

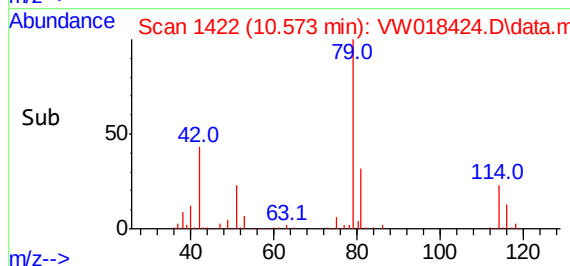
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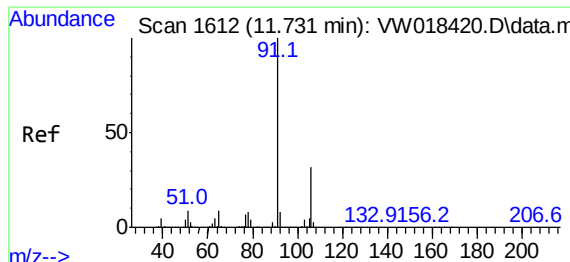
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10.51

10.61

Time-->

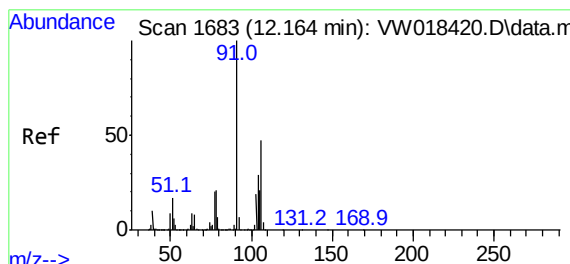
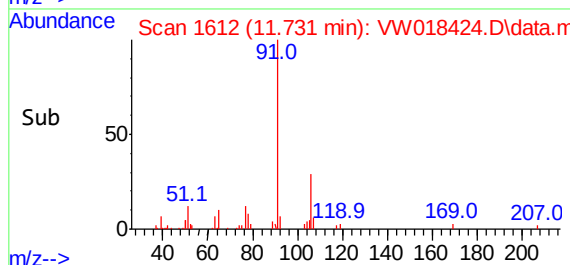
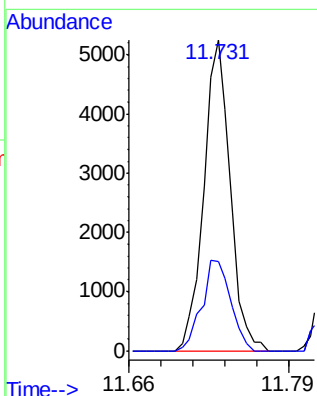
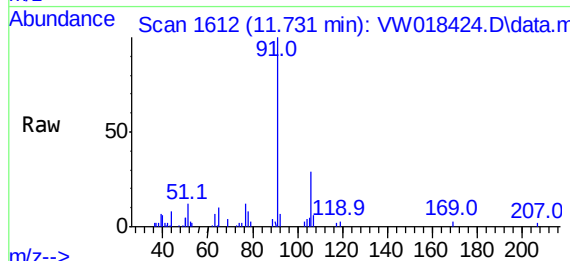




#53
Ethylbenzene
Concen: 0.23 ug/L
RT: 11.731 min Scan# 1612
Delta R.T. -0.000 min
Lab File: VW018424.D
Acq: 23 Mar 2021 14:17

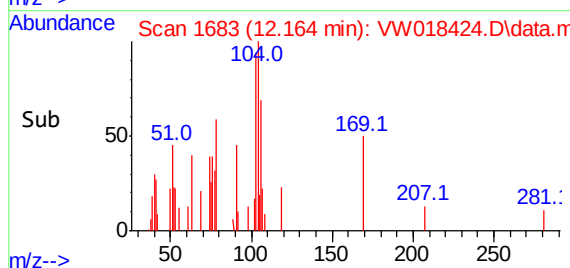
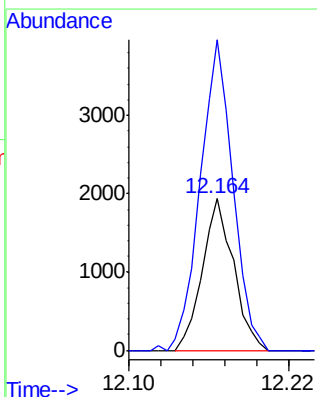
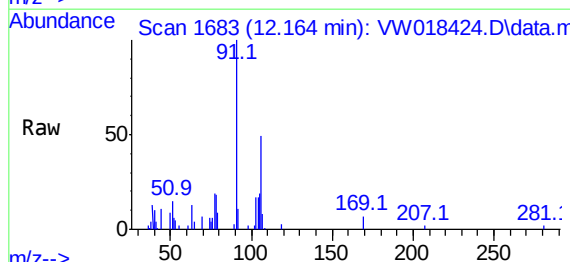
Instrument :
MSVOA_W
ClientSampled :
BG4X4

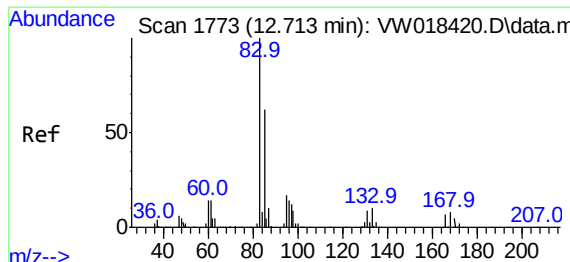
Tgt Ion: 91 Resp: 8236
Ion Ratio Lower Upper
91 100
106 28.6 21.7 40.3



#55
o-xylene
Concen: 0.23 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VW018424.D
Acq: 23 Mar 2021 14:17

Tgt Ion: 106 Resp: 3027
Ion Ratio Lower Upper
106 100
91 205.1 154.3 286.5



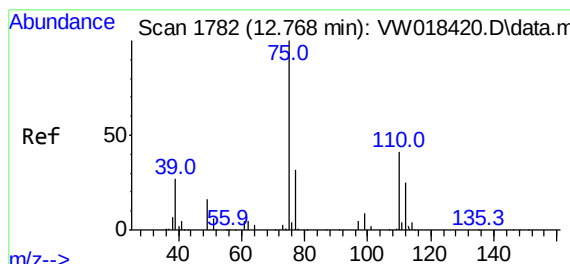
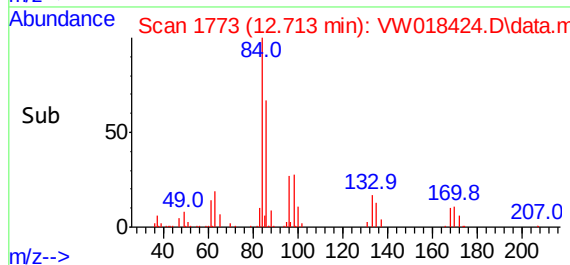
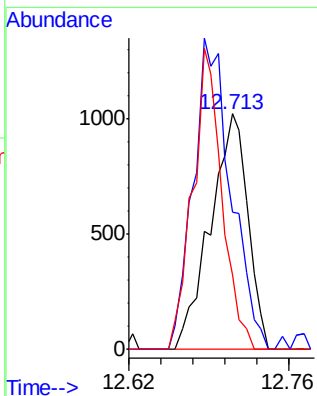
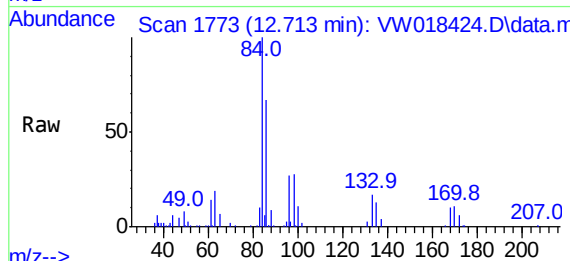


#58
 1,1,2,2-Tetrachloroethane
 Concen: 0.34 ug/L
 RT: 12.713 min Scan# 1773
 Delta R.T. -0.000 min
 Lab File: VW018424.D
 Acq: 23 Mar 2021 14:17

Instrument :
 MSVOA_W
 ClientSampled :
 BG4X4

Tgt Ion: 83 Resp: 2266

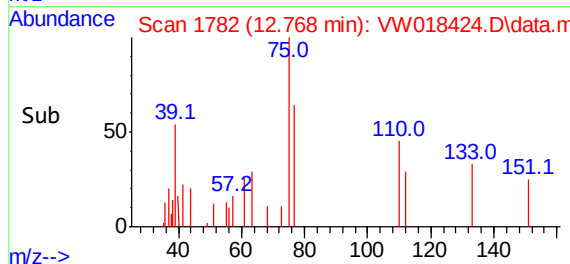
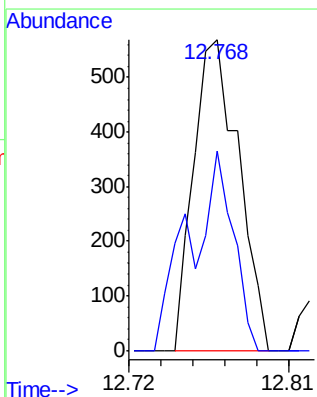
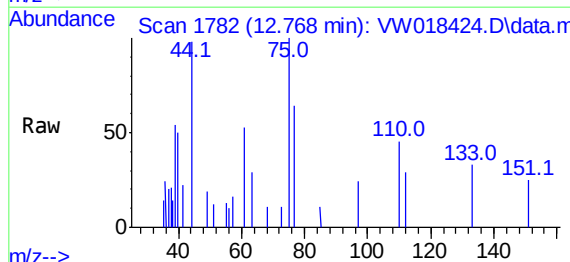
Ion	Ratio	Lower	Upper
83	100		
85	58.4	49.0	91.0
131	31.5	8.7	13.1

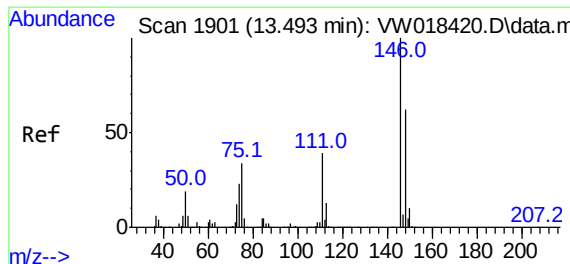


#59
 1,2,3-Trichloropropane
 Concen: 0.21 ug/L
 RT: 12.768 min Scan# 1782
 Delta R.T. -0.000 min
 Lab File: VW018424.D
 Acq: 23 Mar 2021 14:17

Tgt Ion: 75 Resp: 1034

Ion	Ratio	Lower	Upper
75	100		
77	37.9	25.6	38.4

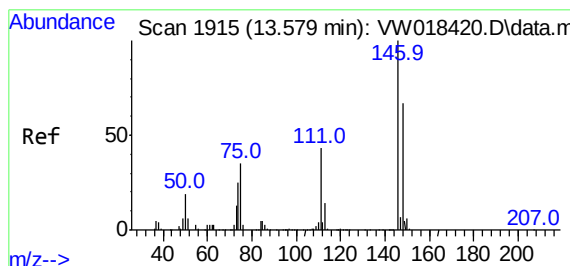
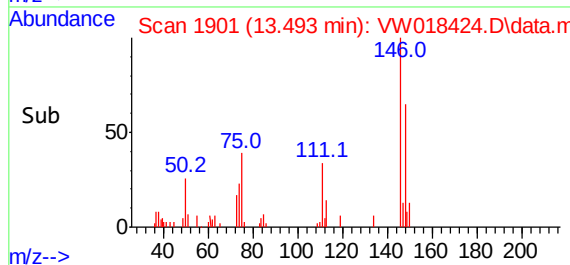
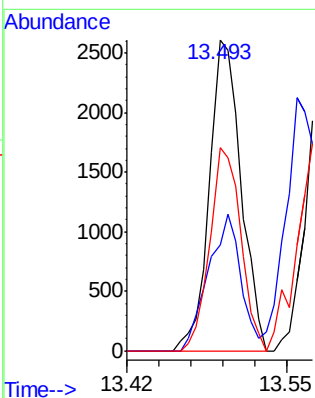
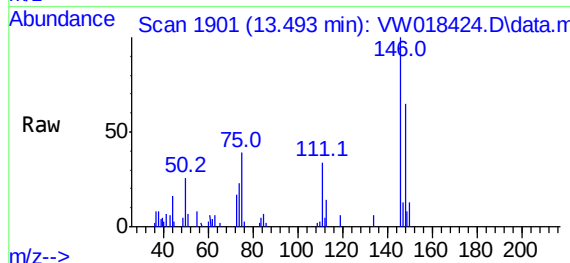




#63
1,3-Dichlorobenzene
Concen: 0.32 ug/L
RT: 13.493 min Scan# 1901
Delta R.T. -0.000 min
Lab File: VW018424.D
Acq: 23 Mar 2021 14:17

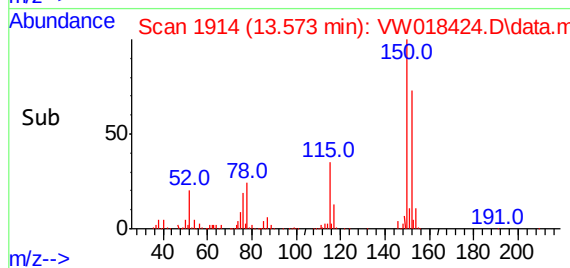
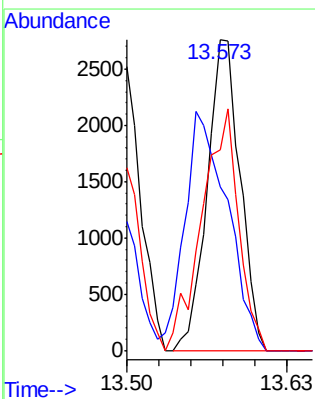
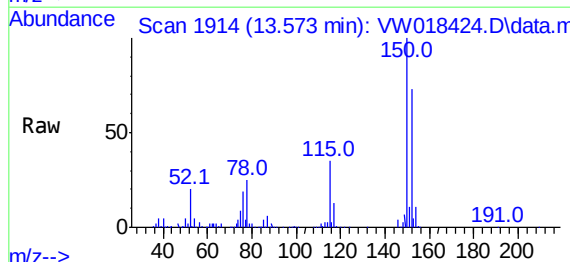
Instrument :
MSVOA_W
ClientSampled :
BG4X4

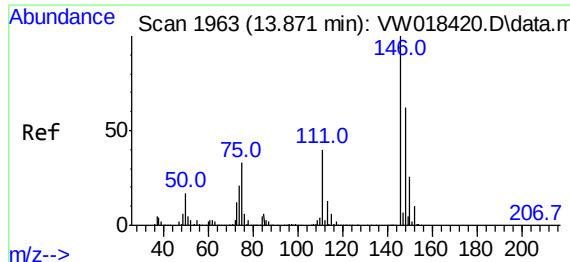
Tgt Ion:146 Resp: 4433
Ion Ratio Lower Upper
146 100
111 34.2 27.5 51.1
148 65.5 43.0 80.0



#64
1,4-Dichlorobenzene
Concen: 0.35 ug/L
RT: 13.573 min Scan# 1914
Delta R.T. -0.006 min
Lab File: VW018424.D
Acq: 23 Mar 2021 14:17

Tgt Ion:146 Resp: 4860
Ion Ratio Lower Upper
146 100
111 52.4 28.3 52.5
148 64.6 47.3 87.9

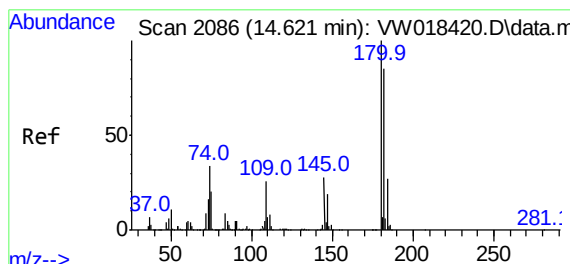
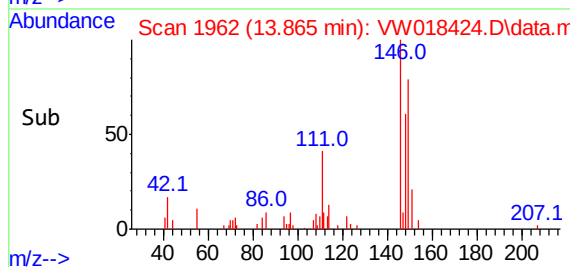
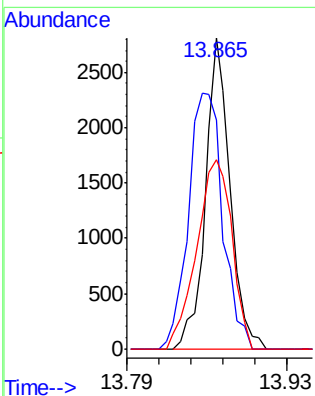
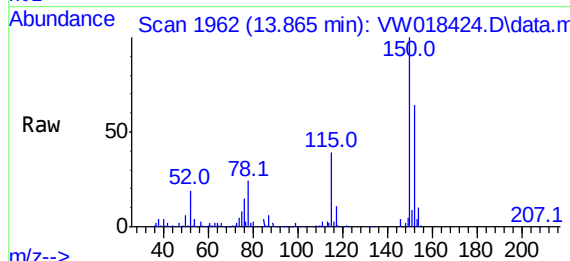




#65
1,2-Dichlorobenzene
Concen: 0.33 ug/L
RT: 13.865 min Scan# 1962
Delta R.T. -0.006 min
Lab File: VW018424.D
Acq: 23 Mar 2021 14:17

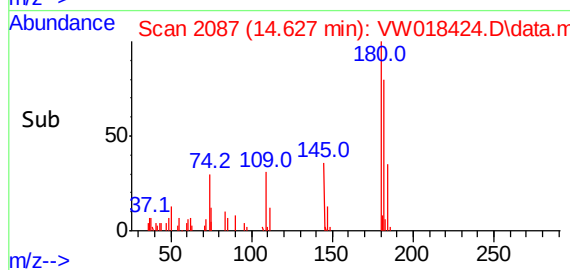
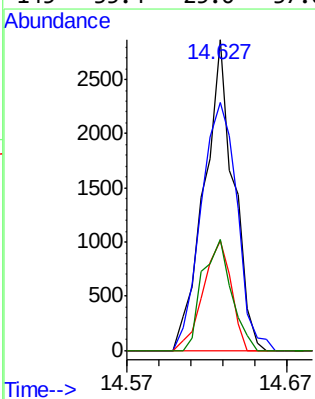
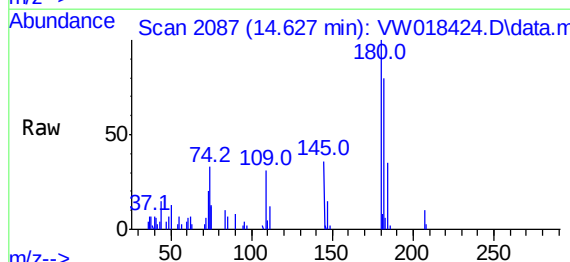
Instrument :
MSVOA_W
ClientSampled :
BG4X4

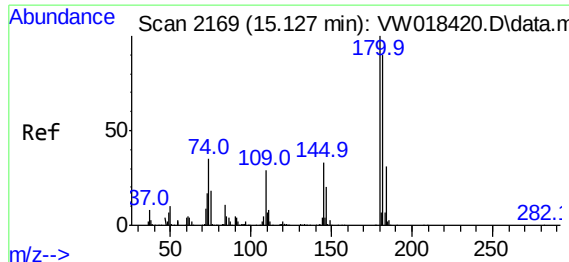
Tgt Ion:146 Resp: 4103
Ion Ratio Lower Upper
146 100
111 73.7 36.0 54.0#
148 61.0 50.2 75.4



#67
1,3,5-Trichlorobenzene
Concen: 0.39 ug/L
RT: 14.627 min Scan# 2087
Delta R.T. 0.006 min
Lab File: VW018424.D
Acq: 23 Mar 2021 14:17

Tgt Ion:180 Resp: 3846
Ion Ratio Lower Upper
180 100
182 97.7 71.8 107.8
184 33.6 23.5 35.3
145 35.4 25.0 37.6

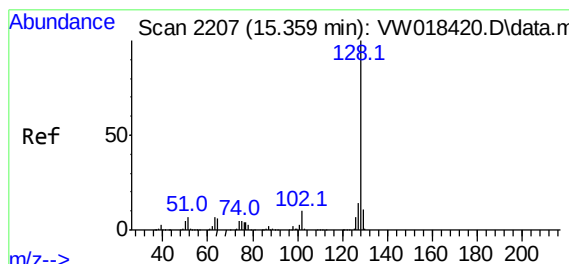
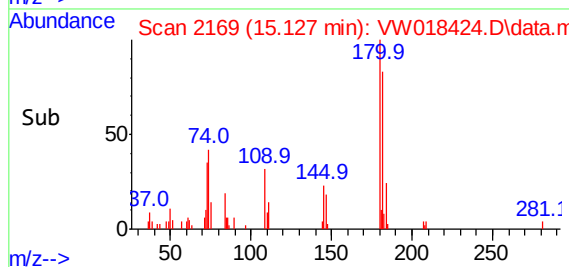
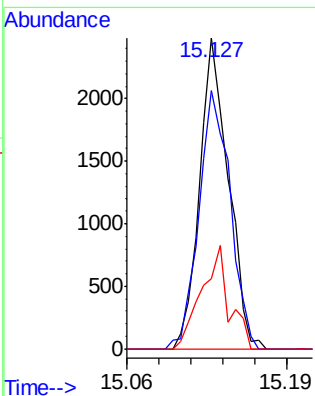
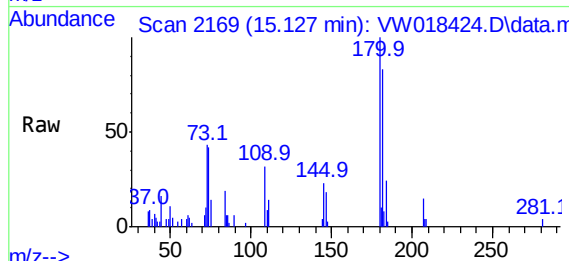




#68
1,2,4-trichlorobenzene
Concen: 0.45 ug/L
RT: 15.127 min Scan# 2169
Delta R.T. -0.000 min
Lab File: VW018424.D
Acq: 23 Mar 2021 14:17

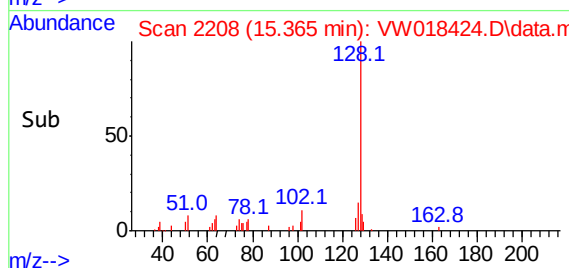
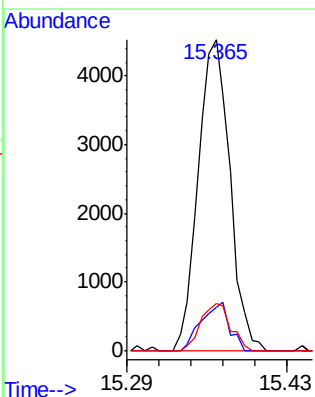
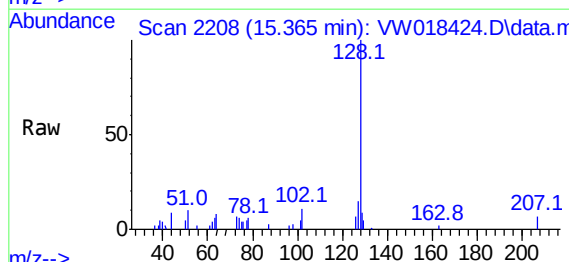
Instrument :
MSVOA_W
ClientSampled :
BG4X4

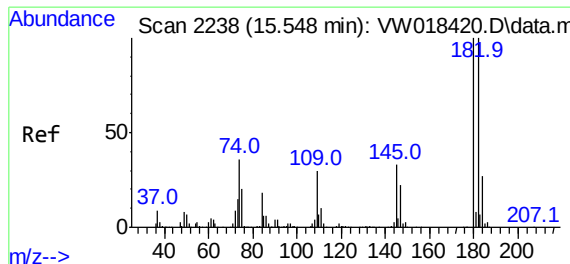
Tgt Ion:180 Resp: 3802
Ion Ratio Lower Upper
180 100
182 90.8 70.2 105.4
145 26.6 24.9 37.3



#69
Naphthalene
Concen: 0.49 ug/L
RT: 15.365 min Scan# 2208
Delta R.T. 0.006 min
Lab File: VW018424.D
Acq: 23 Mar 2021 14:17

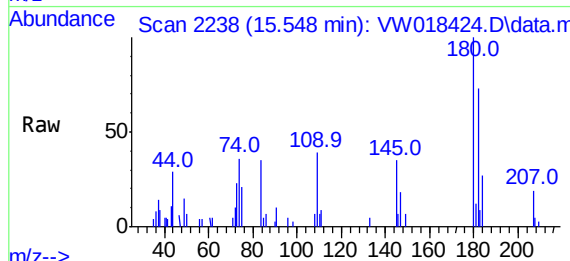
Tgt Ion:128 Resp: 8522
Ion Ratio Lower Upper
128 100
129 13.7 9.1 13.7#
127 14.2 10.7 16.1





#70
 1,2,3-Trichlorobenzene
 Concen: 0.48 ug/L
 RT: 15.548 min Scan# 2238
 Delta R.T. -0.000 min
 Lab File: VW018424.D
 Acq: 23 Mar 2021 14:17

Instrument :
 MSVOA_W
 ClientSampled :
 BG4X4



Tgt Ion:180 Resp: 3552

Ion	Ratio	Lower	Upper
180	100		
182	96.3	76.5	114.7
145	35.6	27.7	41.5

