

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102324\
 Data File : VW030722.D
 Acq On : 23 Oct 2024 14:05
 Operator : SY/MD
 Sample : P4436-01DL 2X
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 24 01:36:44 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM100924SMA.M
 Quant Title : SFAM01.0
 QLast Update : Thu Oct 24 01:34:36 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	238540	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	229669	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	108313	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	67008	17.871	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	71.480%
7) Chloroethane-d5	2.899	69	63018	22.203	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.800%
11) 1,1-Dichloroethene-d2	4.021	65	30486	19.548	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	78.200%
21) 2-Butanone-d5	7.075	46	44011	65.224	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	130.440%
24) Chloroform-d	7.654	84	182743	26.788	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	107.160%
26) 1,2-Dichloroethane-d4	8.307	65	92240	26.003	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	104.000%
32) Benzene-d6	8.276	84	290722	21.810	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	87.240%
36) 1,2-Dichloropropane-d6	9.276	67	97040	24.803	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	99.200%
41) Toluene-d8	10.325	98	274281	22.540	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	90.160%
43) trans-1,3-Dichloroprop...	10.581	79	38712	23.630	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	94.520%
47) 2-Hexanone-d5	10.922	63	33513	66.504	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	133.000%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	87790	30.554	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	122.200%#
66) 1,2-Dichlorobenzene-d4	13.848	152	95002	25.922	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	103.680%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.045	96	70551	22.045	ug/L	97
13) Acetone	4.125	43	30712	31.089	ug/L	71
16) Methylene chloride	4.917	84	161250	44.714	ug/L	95
17) trans-1,2-Dichloroethene	5.429	96	56910	16.479	ug/L	93
18) Methyl tert-butyl Ether	5.429	73	117157	24.240	ug/L	99
19) 1,1-Dichloroethane	6.222	63	316390	49.294	ug/L	96
22) 2-Butanone	7.167	43	113773	106.843	ug/L	95
25) Chloroform	7.679	83	341393	49.773	ug/L	96
30) 1,1,1-Trichloroethane	7.874	97	2397	0.393	ug/L #	85
31) Carbon tetrachloride	8.069	117	45466	8.350	ug/L	99
33) Benzene	8.325	78	514155	34.401	ug/L	100
34) Trichloroethene	9.093	95	200915	48.320	ug/L	97
37) 1,2-Dichloropropane	9.367	63	74172	19.870	ug/L	99
39) cis-1,3-Dichloropropene	10.075	75	185888	33.015	ug/L	98
40) 4-Methyl-2-pentanone	10.209	43	155352	86.631	ug/L	98
44) trans-1,3-Dichloropropene	10.605	75	179731	37.987	ug/L	99
45) 1,1,2-Trichloroethane	10.788	97	70755	26.227	ug/L	98
50) 1,2-Dibromoethane	11.233	107	63217	25.113	ug/L	97
53) m,p-Xylene	11.837	106	165445	24.272	ug/L	86

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Quant Title : SFAM01.0
QLast Update : Thu Oct 24 01:34:36 2024
Response via : Initial Calibration

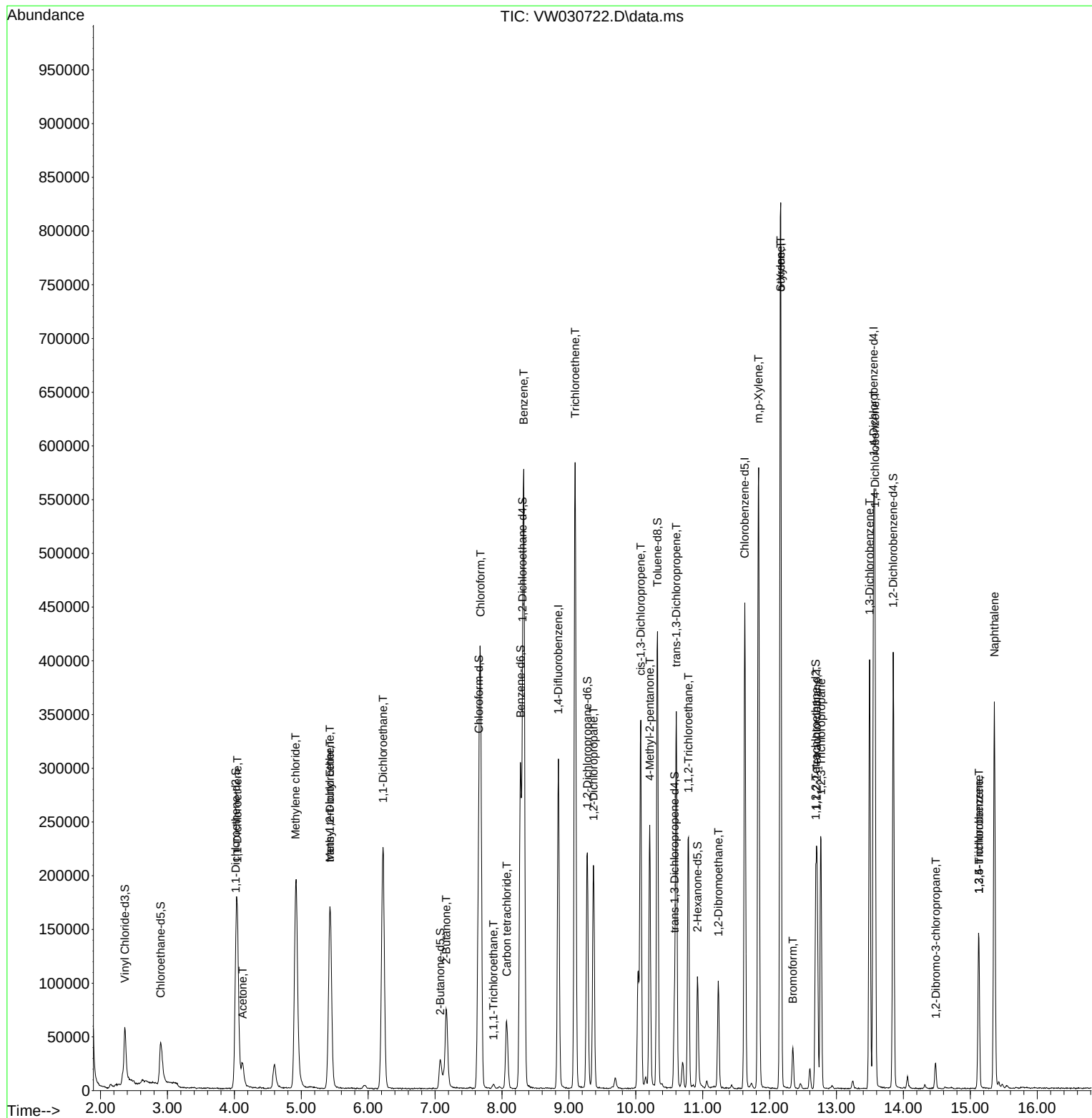
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	12.166	106	213224	33.836	ug/L	92
55) Styrene	12.166	104	12003	1.114	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.708	83	84576	27.800	ug/L	96
59) Bromoform	12.349	173	16125	10.596	ug/L	98
61) 1,2,3-Trichloropropane	12.769	75	94481	44.827	ug/L	98
64) 1,3-Dichlorobenzene	13.495	146	152940	20.947	ug/L	99
65) 1,4-Dichlorobenzene	13.574	146	155616	20.642	ug/L	96
68) 1,2-Dibromo-3-chloropr...	14.482	75	6017	12.803	ug/L	91
69) 1,3,5-Trichlorobenzene	15.129	180	42664	8.861	ug/L	95
70) 1,2,4-trichlorobenzene	15.129	180	42664	11.007	ug/L	99
71) Naphthalene	15.360	128	285285	42.603	ug/L	100

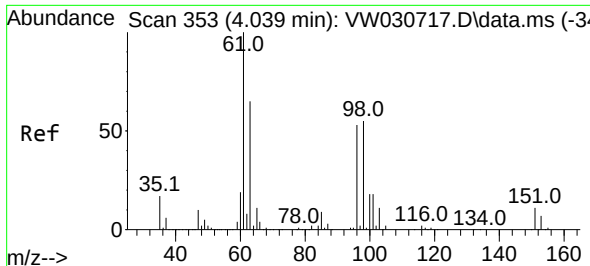
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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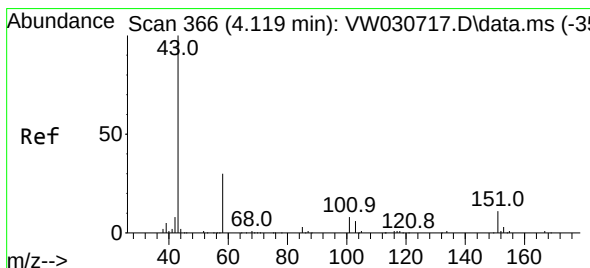
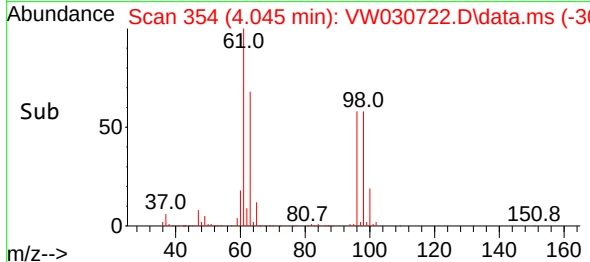
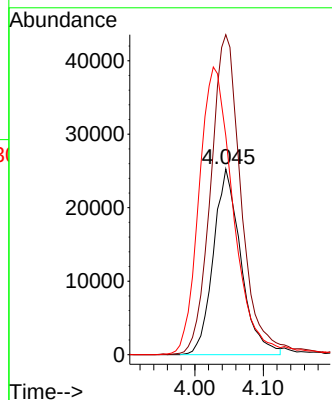
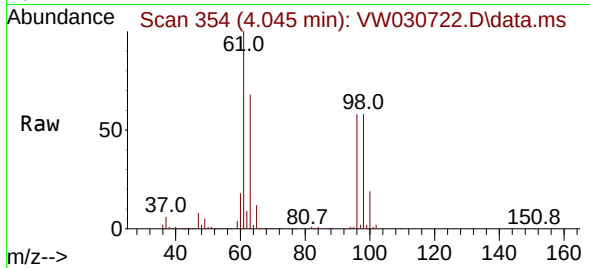




#12
1,1-Dichloroethene
Concen: 22.045 ug/L
RT: 4.045 min Scan# 354
Delta R.T. 0.006 min
Lab File: VW030722.D
Acq: 23 Oct 2024 14:05

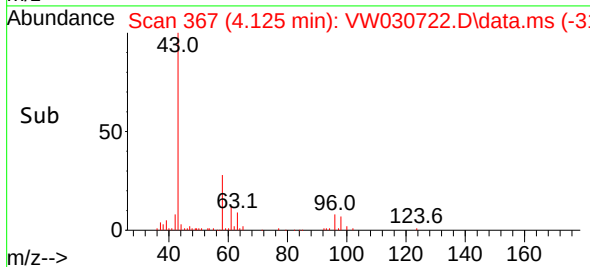
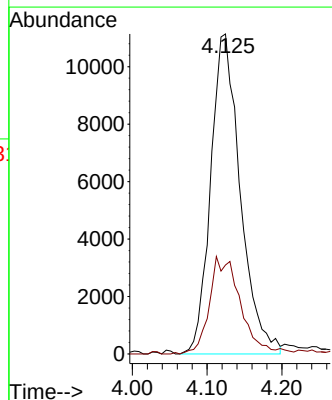
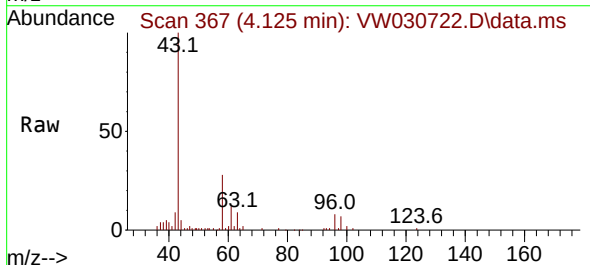
Instrument :
MSVOA_W
ClientSampleId :

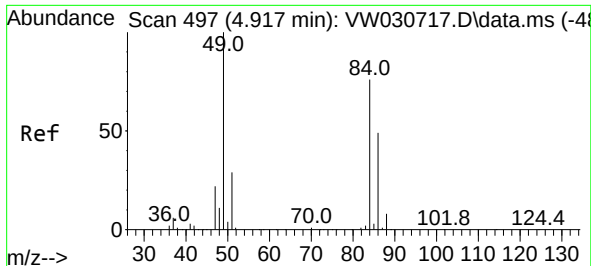
Tgt Ion: 96 Resp: 70551
Ion Ratio Lower Upper
96 100
61 172.2 121.3 225.3
63 117.8 87.6 162.8



#13
Acetone
Concen: 31.089 ug/L
RT: 4.125 min Scan# 367
Delta R.T. 0.006 min
Lab File: VW030722.D
Acq: 23 Oct 2024 14:05

Tgt Ion: 43 Resp: 30712
Ion Ratio Lower Upper
43 100
58 13.4 0.0 57.6

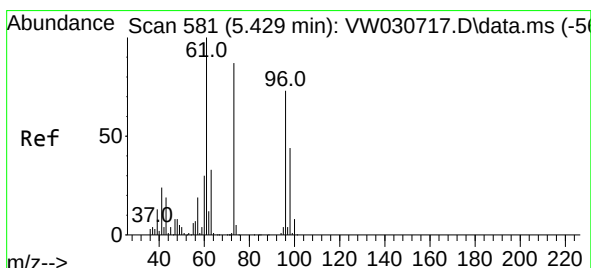
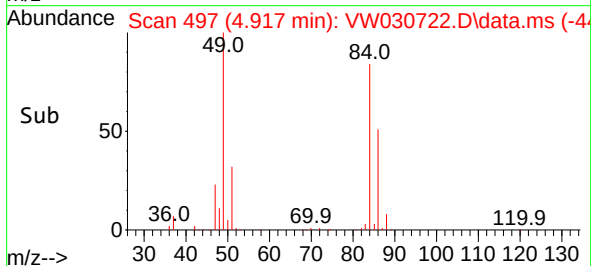
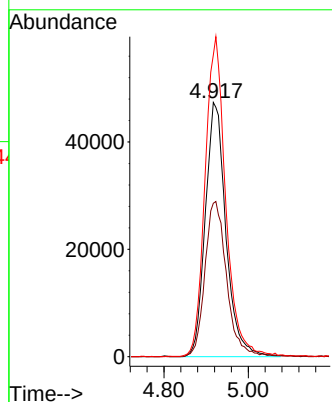
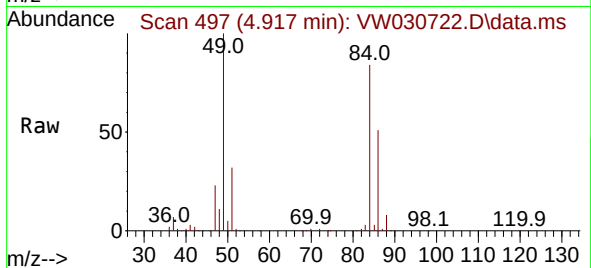




#16
Methylene chloride
Concen: 44.714 ug/L
RT: 4.917 min Scan# 49
Delta R.T. -0.000 min
Lab File: VW030722.D
Acq: 23 Oct 2024 14:05

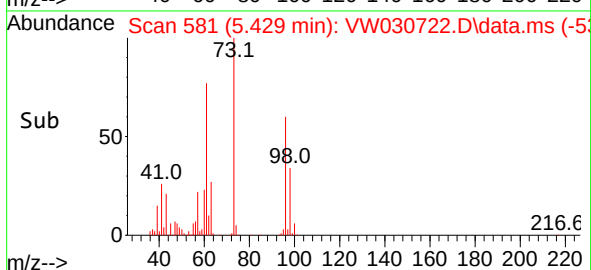
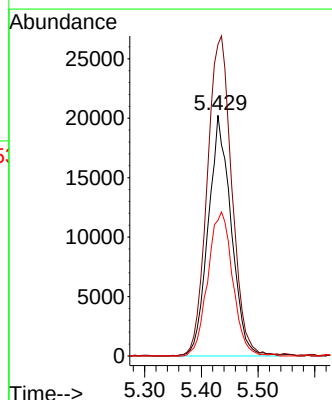
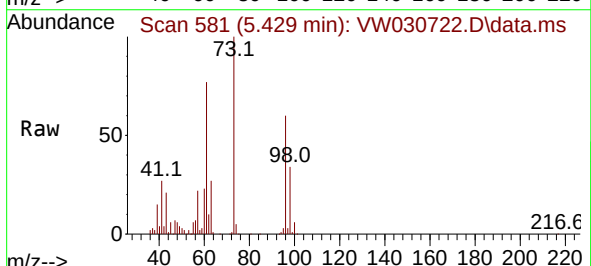
Instrument :
MSVOA_W
ClientSampleId :

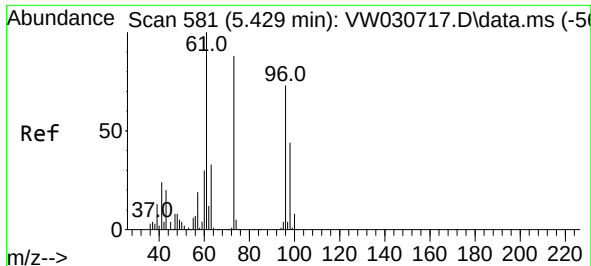
Tgt Ion: 84 Resp: 161250
Ion Ratio Lower Upper
84 100
86 60.4 43.8 81.3
49 118.7 88.3 164.1



#17
trans-1,2-Dichloroethene
Concen: 16.479 ug/L
RT: 5.429 min Scan# 581
Delta R.T. -0.000 min
Lab File: VW030722.D
Acq: 23 Oct 2024 14:05

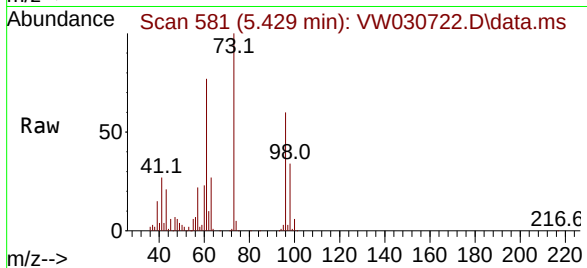
Tgt Ion: 96 Resp: 56910
Ion Ratio Lower Upper
96 100
61 129.4 96.9 179.9
98 56.4 42.2 78.4





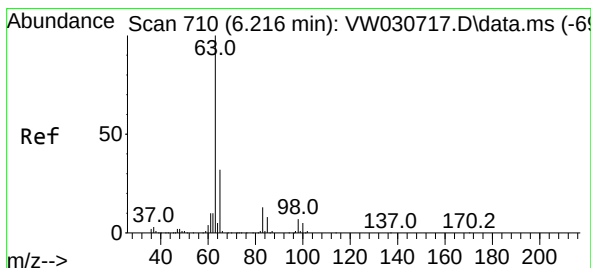
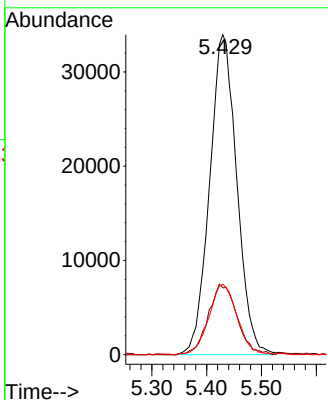
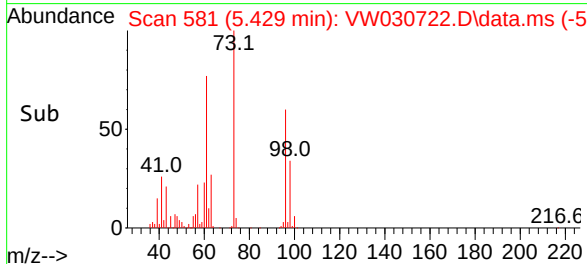
#18
Methyl tert-butyl Ether
Concen: 24.240 ug/L
RT: 5.429 min Scan# 581
Delta R.T. -0.000 min
Lab File: VW030722.D
Acq: 23 Oct 2024 14:05

Instrument :
MSVOA_W
ClientSampleId :

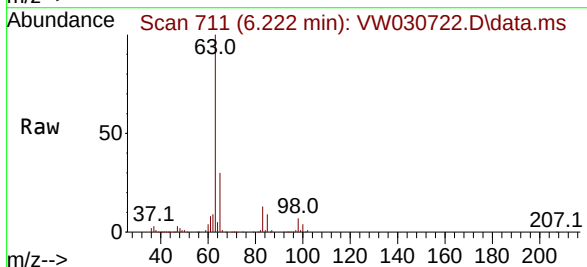


Tgt Ion: 73 Resp: 117157

Ion	Ratio	Lower	Upper
73	100		
43	23.2	18.1	27.1
57	22.8	17.7	26.5

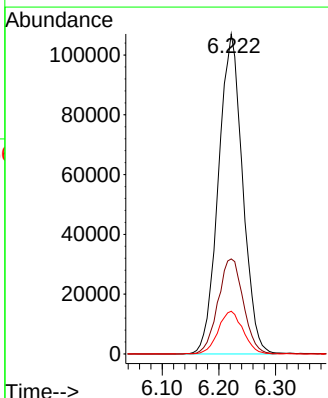
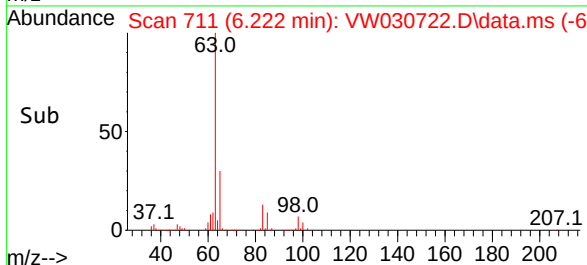


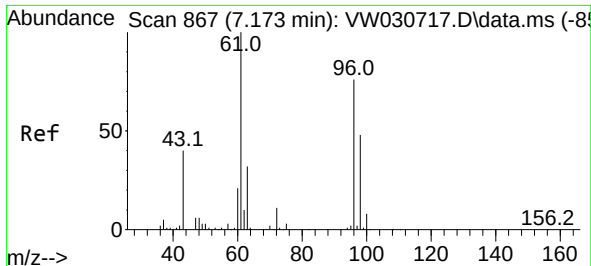
#19
1,1-Dichloroethane
Concen: 49.294 ug/L
RT: 6.222 min Scan# 711
Delta R.T. 0.006 min
Lab File: VW030722.D
Acq: 23 Oct 2024 14:05



Tgt Ion: 63 Resp: 316390

Ion	Ratio	Lower	Upper
63	100		
65	29.7	22.5	41.9
83	13.4	9.8	18.2

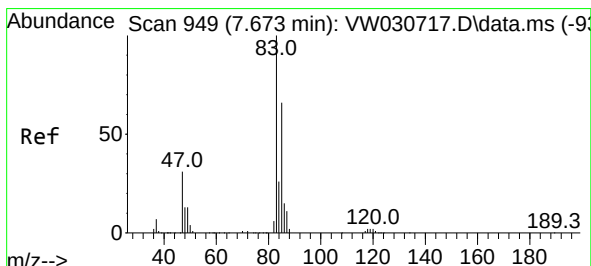
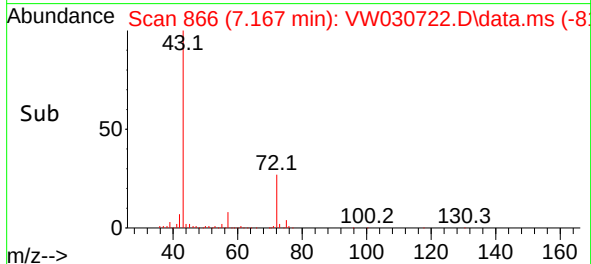
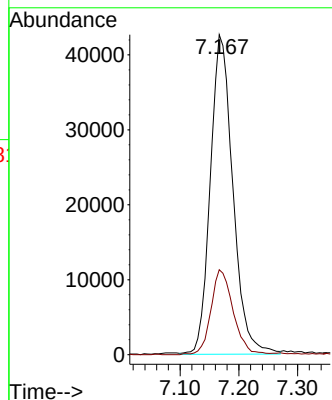
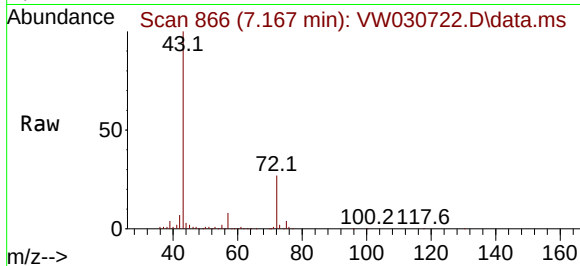




#22
2-Butanone
Concen: 106.843 ug/L
RT: 7.167 min Scan# 80
Delta R.T. -0.006 min
Lab File: VW030722.D
Acq: 23 Oct 2024 14:05

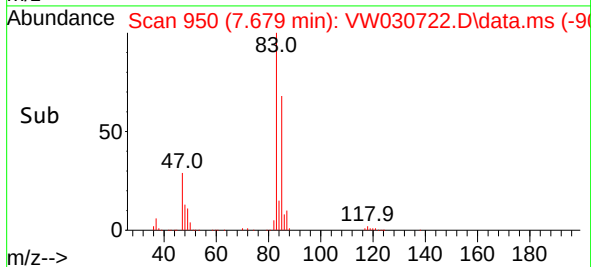
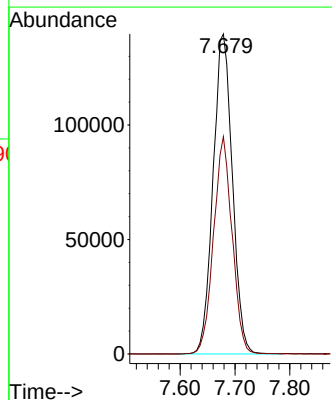
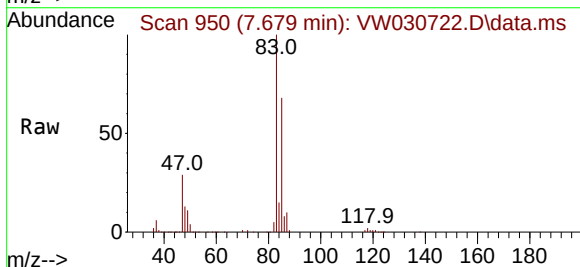
Instrument :
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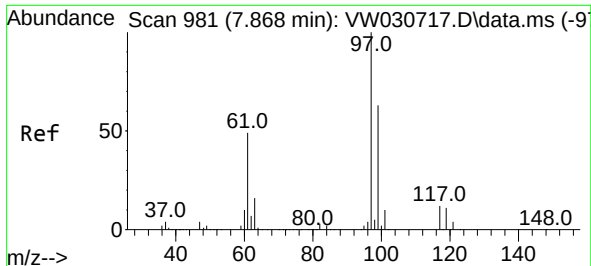
Tgt Ion: 43 Resp: 113773
Ion Ratio Lower Upper
43 100
72 26.0 14.4 43.0



#25
Chloroform
Concen: 49.773 ug/L
RT: 7.679 min Scan# 950
Delta R.T. 0.006 min
Lab File: VW030722.D
Acq: 23 Oct 2024 14:05

Tgt Ion: 83 Resp: 341393
Ion Ratio Lower Upper
83 100
85 67.9 45.1 83.7

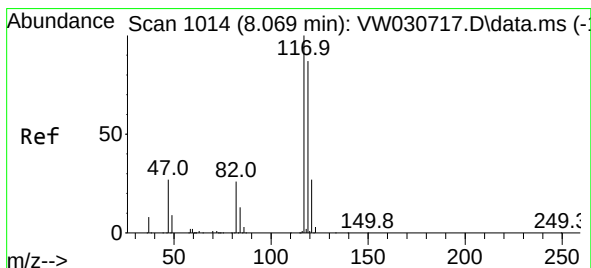
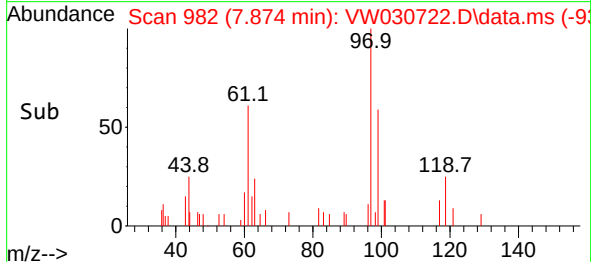
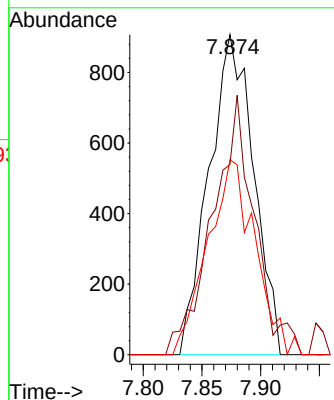
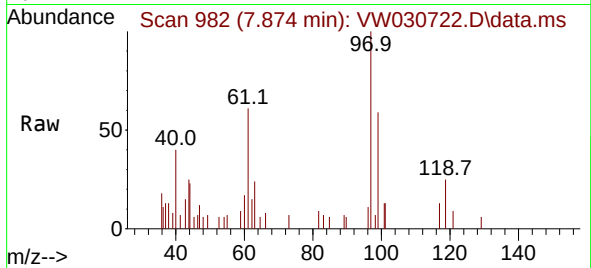




#30
1,1,1-Trichloroethane
Concen: 0.393 ug/L
RT: 7.874 min Scan# 981
Delta R.T. 0.006 min
Lab File: VW030722.D
Acq: 23 Oct 2024 14:05

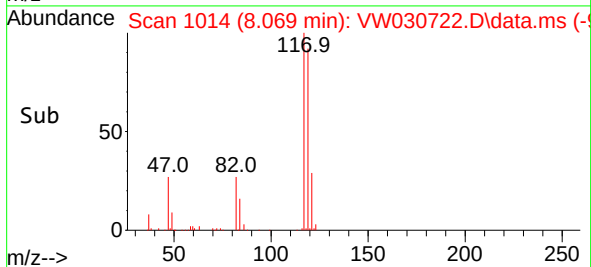
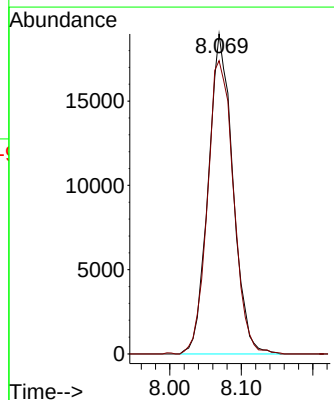
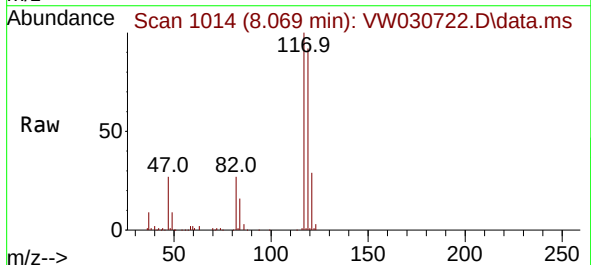
Instrument :
MSVOA_W
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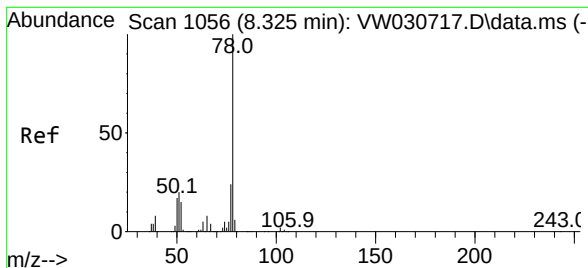
Tgt Ion: 97 Resp: 2397
Ion Ratio Lower Upper
97 100
99 72.4 52.3 78.5
61 64.2 38.5 57.7#



#31
Carbon tetrachloride
Concen: 8.350 ug/L
RT: 8.069 min Scan# 1014
Delta R.T. -0.000 min
Lab File: VW030722.D
Acq: 23 Oct 2024 14:05

Tgt Ion: 117 Resp: 45466
Ion Ratio Lower Upper
117 100
119 96.6 77.8 116.8





#33

Benzene

Concen: 34.401 ug/L

RT: 8.325 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VW030722.D

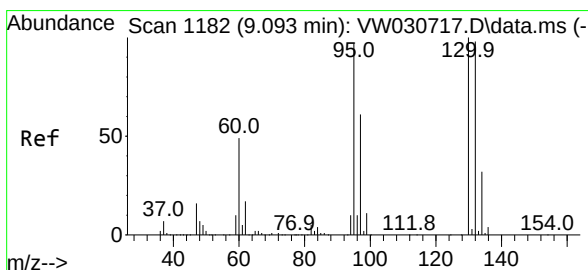
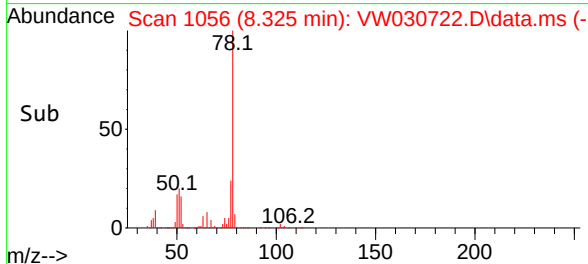
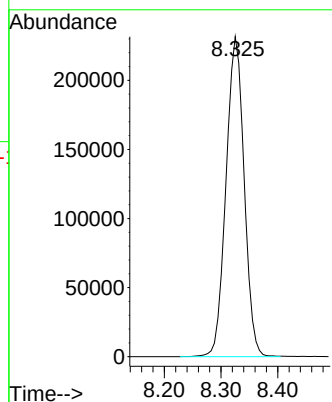
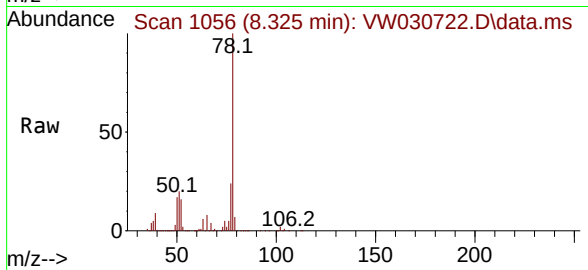
Acq: 23 Oct 2024 14:05

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 78 Resp: 514155



#34

Trichloroethene

Concen: 48.320 ug/L

RT: 9.093 min Scan# 1182

Delta R.T. -0.000 min

Lab File: VW030722.D

Acq: 23 Oct 2024 14:05

Tgt Ion: 95 Resp: 200915

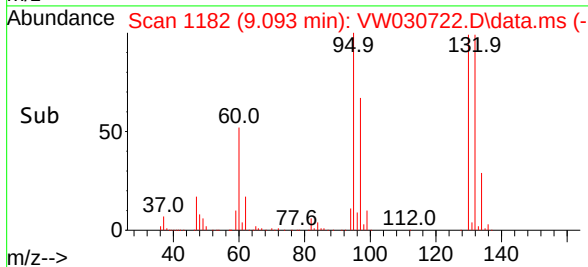
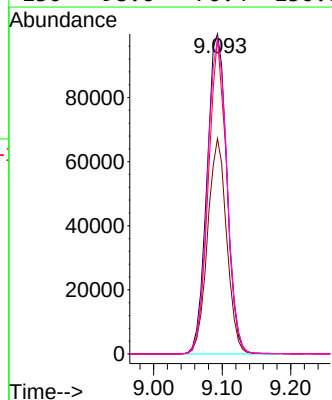
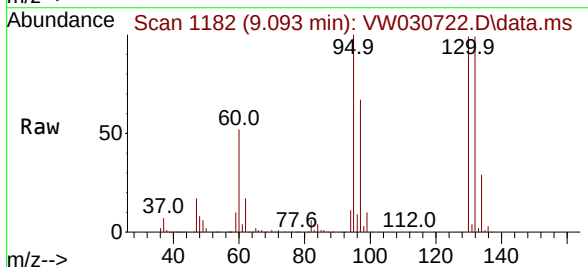
Ion Ratio Lower Upper

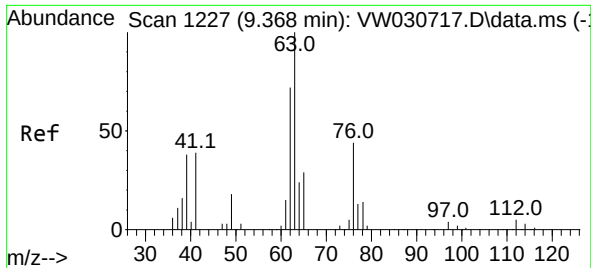
95 100

97 67.3 45.9 85.3

132 98.6 66.4 123.2

130 98.6 70.4 130.8





#37

1,2-Dichloropropane

Concen: 19.870 ug/L

RT: 9.367 min Scan# 11

Delta R.T. -0.000 min

Lab File: VW030722.D

Acq: 23 Oct 2024 14:05

Instrument :

MSVOA_W

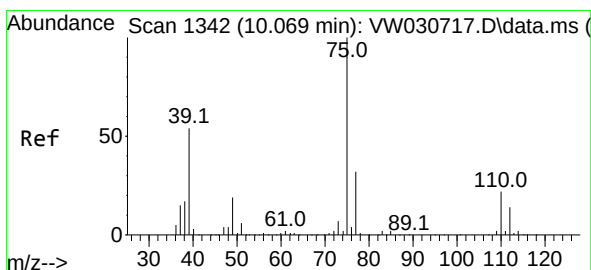
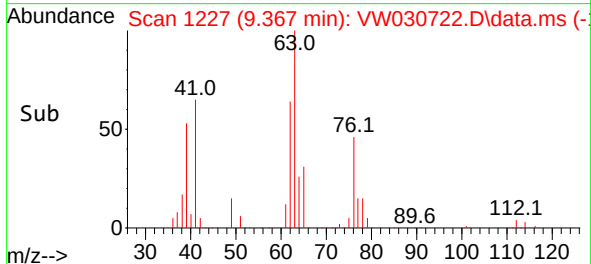
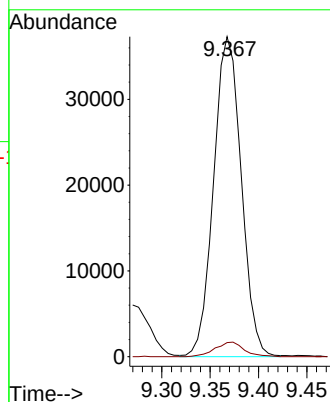
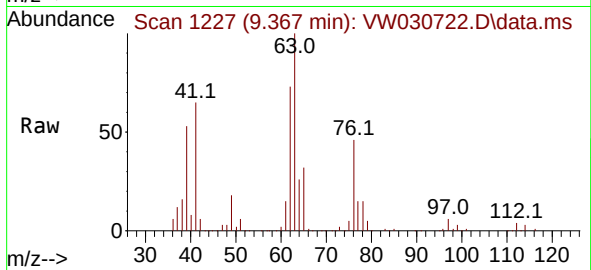
ClientSampleId :

Tgt Ion: 63 Resp: 74172

Ion Ratio Lower Upper

63 100

112 4.8 3.7 5.5



#39

cis-1,3-Dichloropropene

Concen: 33.015 ug/L

RT: 10.075 min Scan# 1343

Delta R.T. 0.006 min

Lab File: VW030722.D

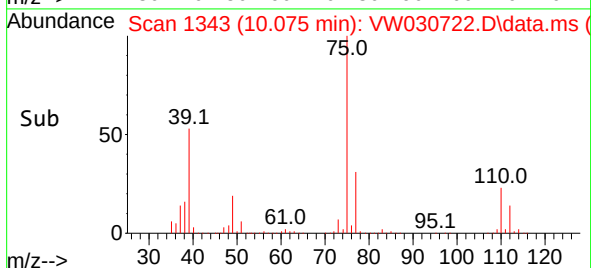
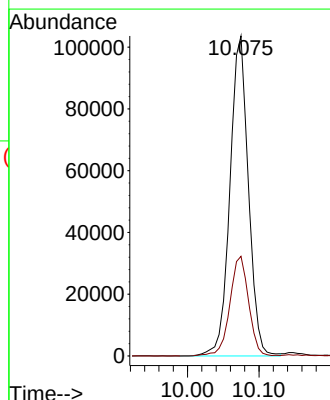
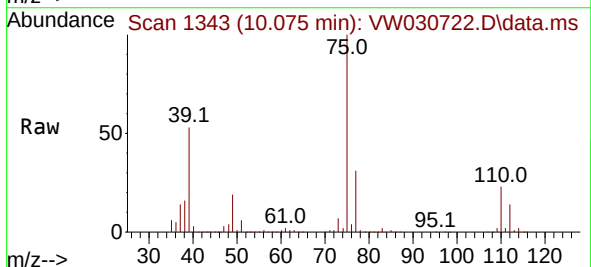
Acq: 23 Oct 2024 14:05

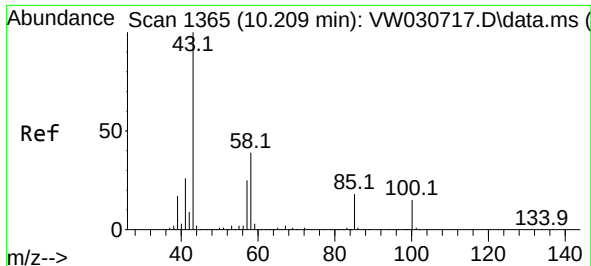
Tgt Ion: 75 Resp: 185888

Ion Ratio Lower Upper

75 100

77 31.2 21.1 39.1

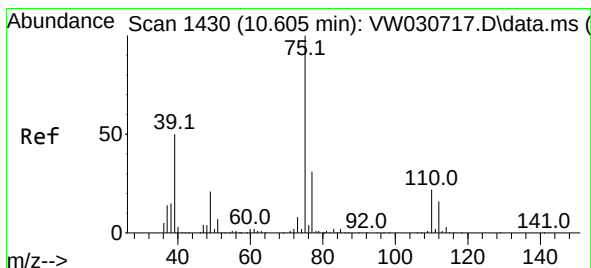
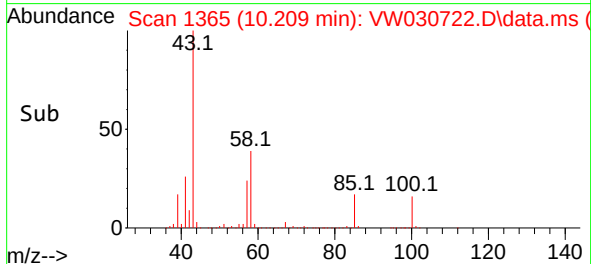
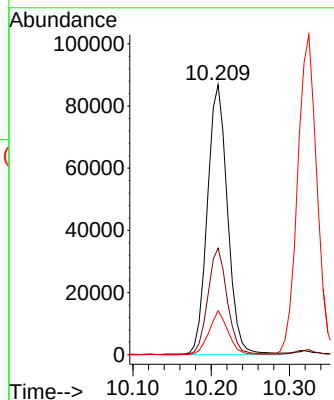
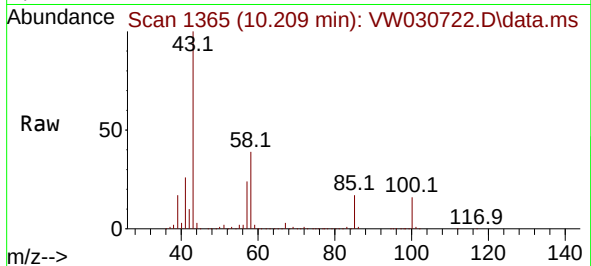




#40
4-Methyl-2-pentanone
Concen: 86.631 ug/L
RT: 10.209 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW030722.D
Acq: 23 Oct 2024 14:05

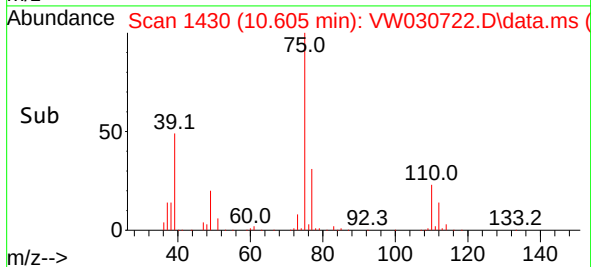
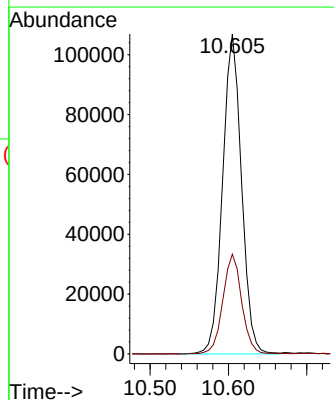
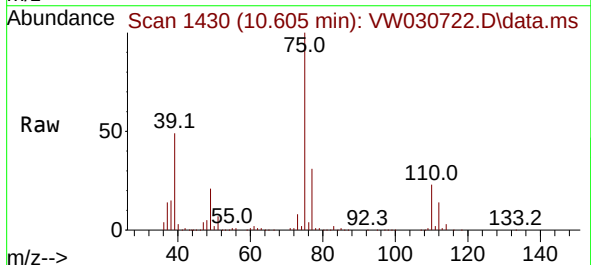
Instrument :
MSVOA_W
ClientSampleId :

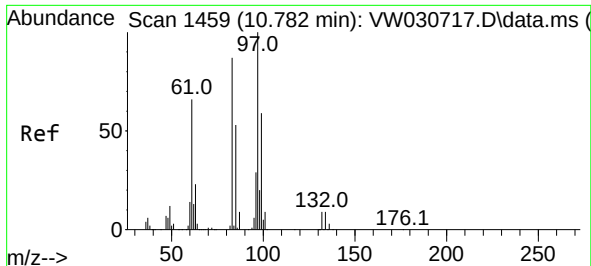
Tgt Ion: 43 Resp: 155352
Ion Ratio Lower Upper
43 100
58 37.9 31.4 47.2
100 15.4 13.1 19.7



#44
trans-1,3-Dichloropropene
Concen: 37.987 ug/L
RT: 10.605 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VW030722.D
Acq: 23 Oct 2024 14:05

Tgt Ion: 75 Resp: 179731
Ion Ratio Lower Upper
75 100
77 31.2 21.6 40.2





#45

1,1,2-Trichloroethane

Concen: 26.227 ug/L

RT: 10.788 min Scan# 1459

Delta R.T. 0.006 min

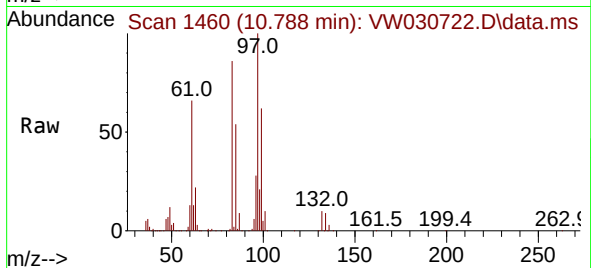
Lab File: VW030722.D

Acq: 23 Oct 2024 14:05

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 97 Resp: 70755

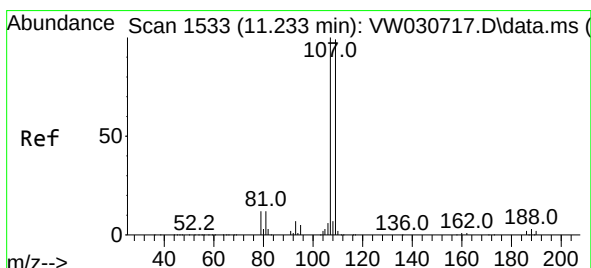
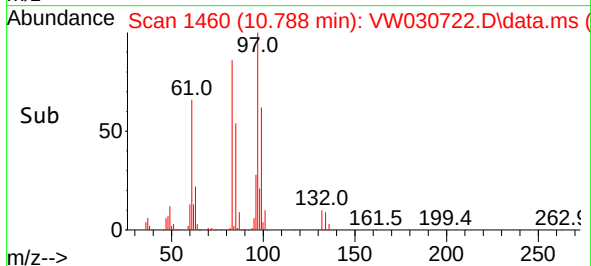
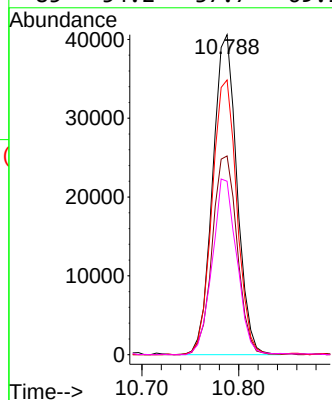
Ion Ratio Lower Upper

97 100

99 62.1 41.2 76.6

83 85.9 59.6 110.6

85 54.2 37.7 69.9



#50

1,2-Dibromoethane

Concen: 25.113 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. -0.000 min

Lab File: VW030722.D

Acq: 23 Oct 2024 14:05

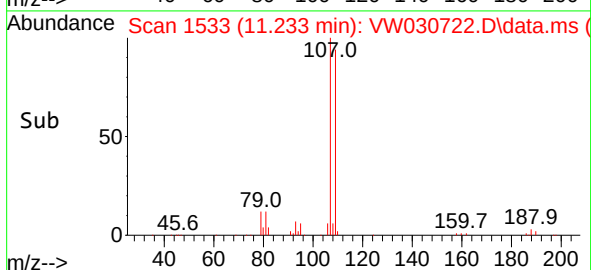
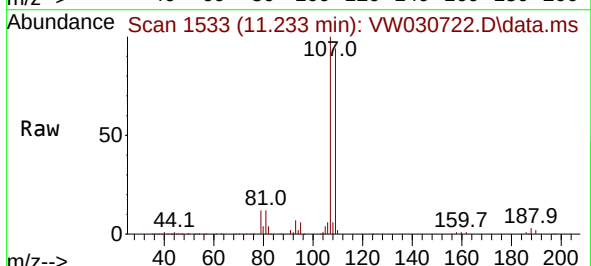
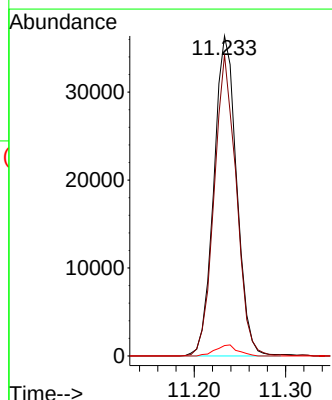
Tgt Ion:107 Resp: 63217

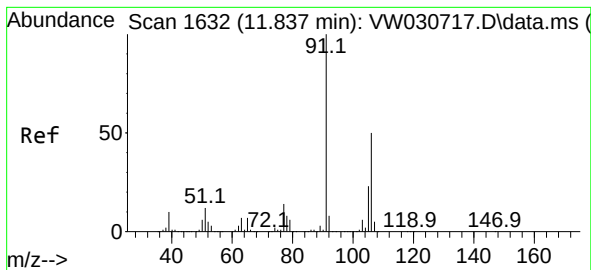
Ion Ratio Lower Upper

107 100

109 94.2 63.8 118.6

188 3.2 2.6 3.8

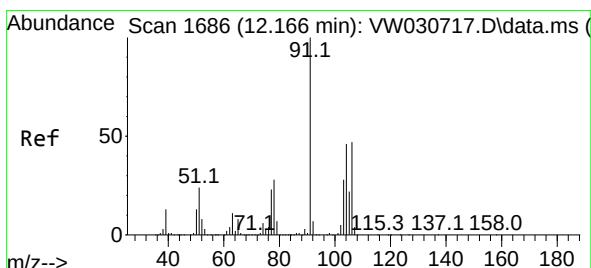
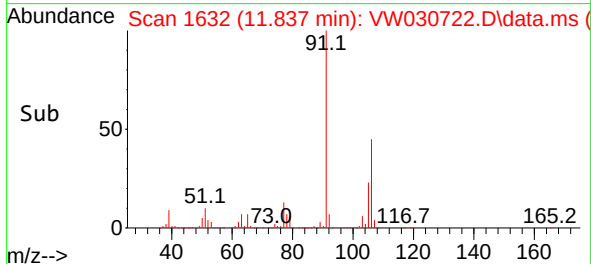
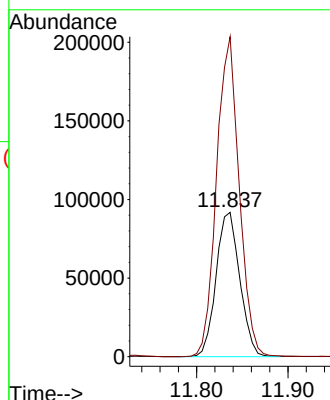
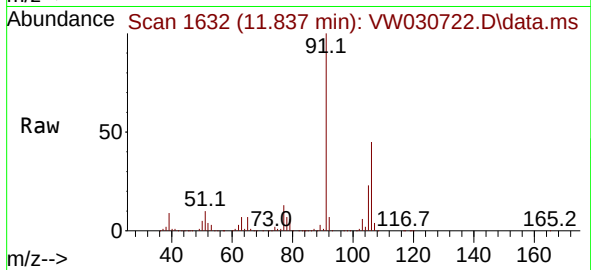




#53
m,p-Xylene
Concen: 24.272 ug/L
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW030722.D
Acq: 23 Oct 2024 14:05

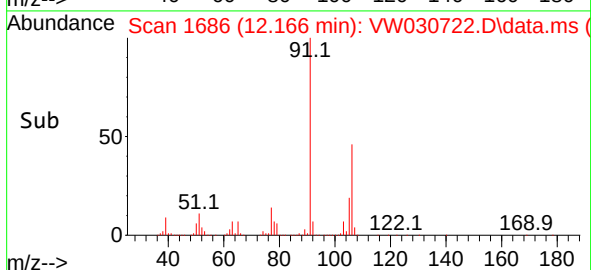
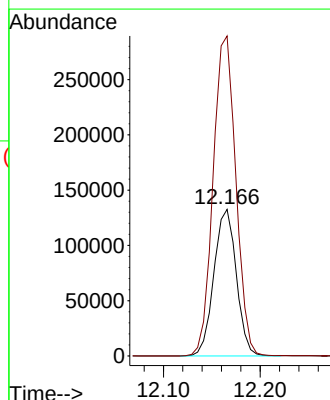
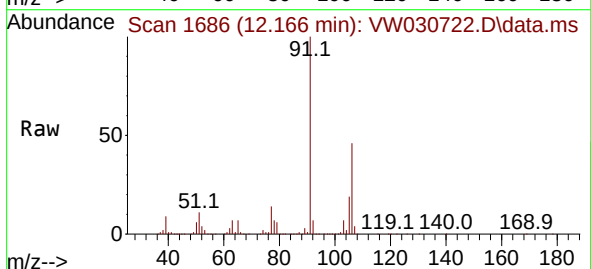
Instrument :
MSVOA_W
ClientSampleId :

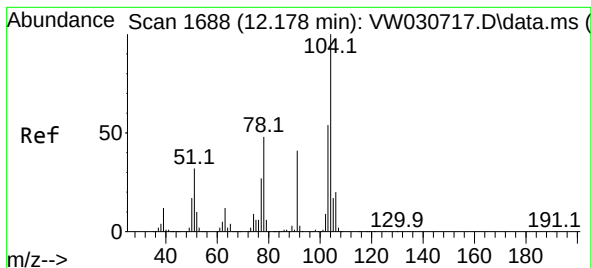
Tgt Ion:106 Resp: 165445
Ion Ratio Lower Upper
106 100
91 221.6 140.6 261.2



#54
o-Xylene
Concen: 33.836 ug/L
RT: 12.166 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VW030722.D
Acq: 23 Oct 2024 14:05

Tgt Ion:106 Resp: 213224
Ion Ratio Lower Upper
106 100
91 218.3 144.5 268.4





#55

Styrene

Concen: 1.114 ug/L

RT: 12.166 min Scan# 1

Delta R.T. -0.012 min

Lab File: VW030722.D

Acq: 23 Oct 2024 14:05

Instrument :

MSVOA_W

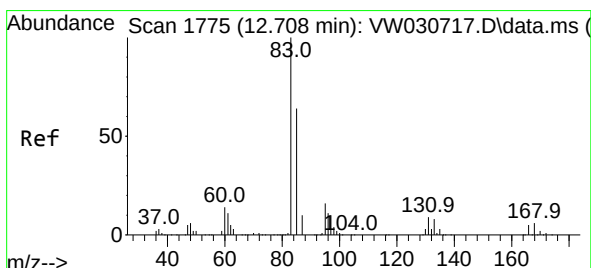
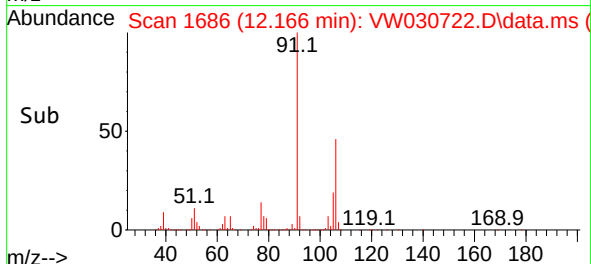
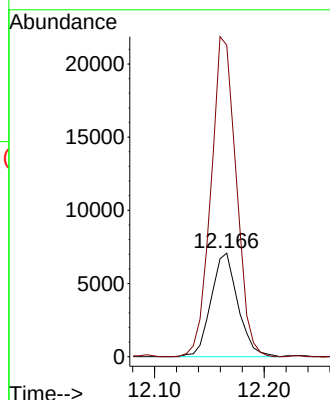
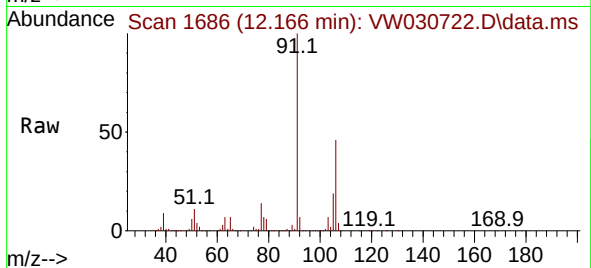
ClientSampleId :

Tgt Ion:104 Resp: 12003

Ion Ratio Lower Upper

104 100

78 301.1 34.3 63.7#



#57

1,1,2,2-Tetrachloroethane

Concen: 27.800 ug/L

RT: 12.708 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VW030722.D

Acq: 23 Oct 2024 14:05

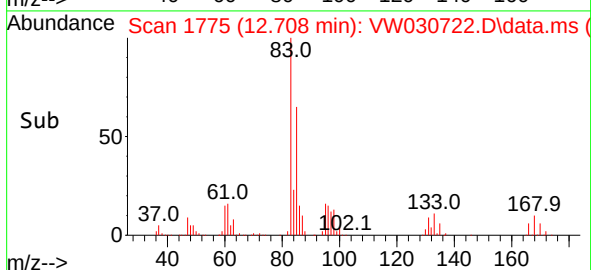
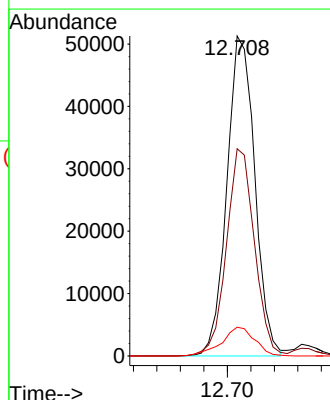
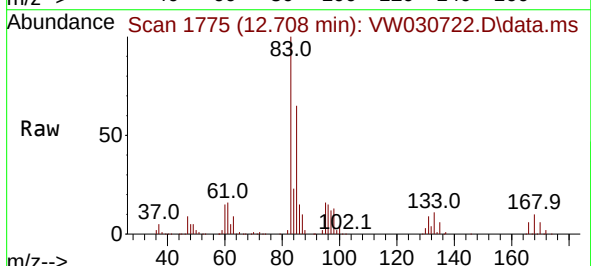
Tgt Ion: 83 Resp: 84576

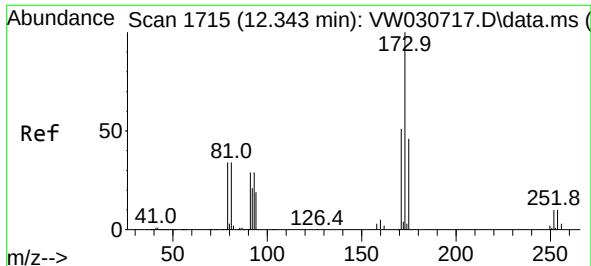
Ion Ratio Lower Upper

83 100

85 64.8 42.6 79.2

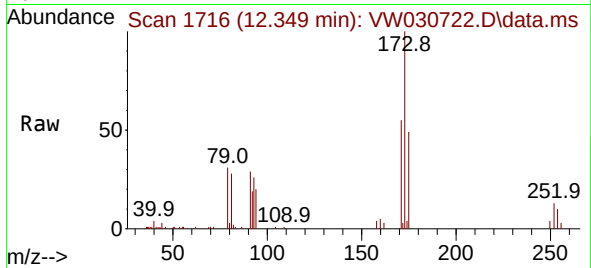
131 9.0 7.4 11.0



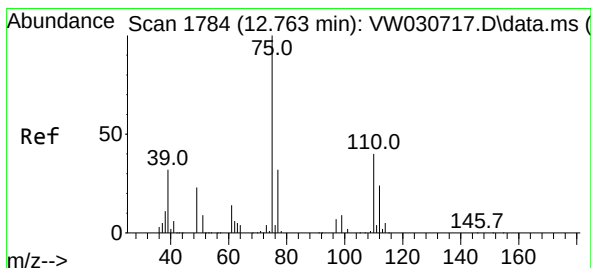
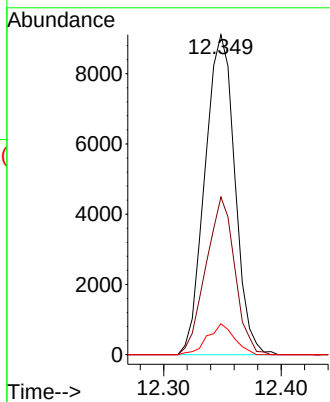
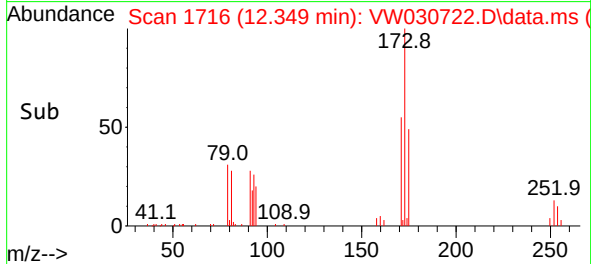


#59
Bromoform
Concen: 10.596 ug/L
RT: 12.349 min Scan# 1715
Delta R.T. 0.006 min
Lab File: VW030722.D
Acq: 23 Oct 2024 14:05

Instrument :
MSVOA_W
ClientSampleId :

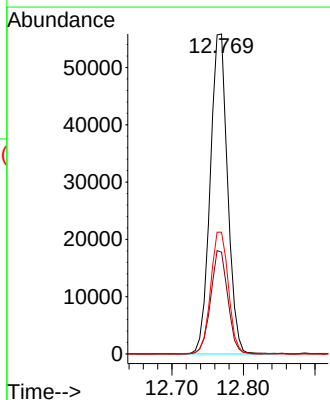
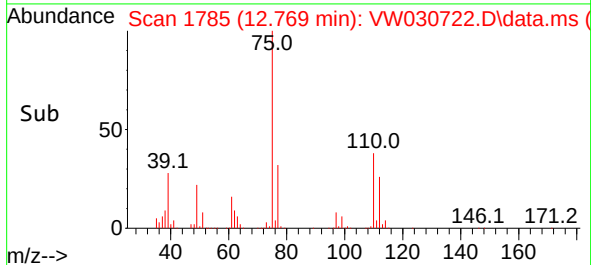
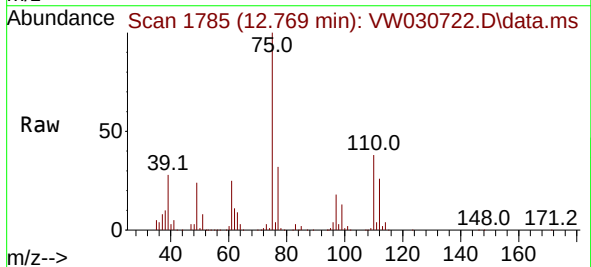


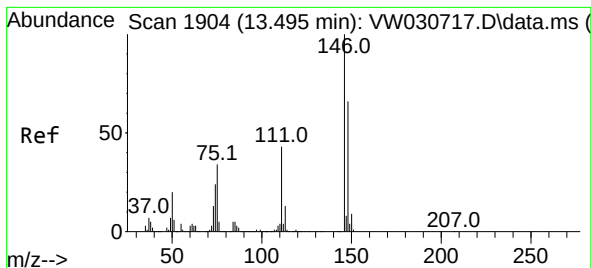
Tgt Ion:173 Resp: 16125
Ion Ratio Lower Upper
173 100
175 47.7 39.0 58.4
254 8.7 7.7 11.5



#61
1,2,3-Trichloropropane
Concen: 44.827 ug/L
RT: 12.769 min Scan# 1785
Delta R.T. 0.006 min
Lab File: VW030722.D
Acq: 23 Oct 2024 14:05

Tgt Ion: 75 Resp: 94481
Ion Ratio Lower Upper
75 100
77 31.9 25.7 38.5
110 38.7 32.3 48.5





#64

1,3-Dichlorobenzene

Concen: 20.947 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. -0.000 min

Lab File: VW030722.D

Acq: 23 Oct 2024 14:05

Instrument :

MSVOA_W

ClientSampleId :

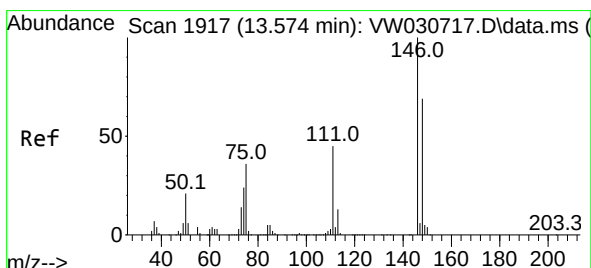
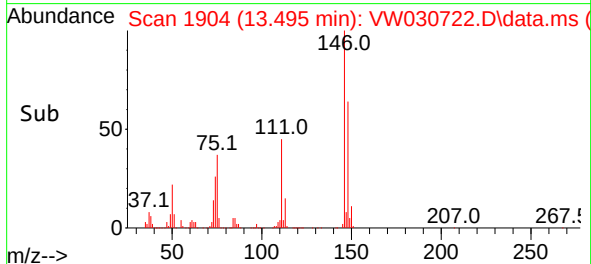
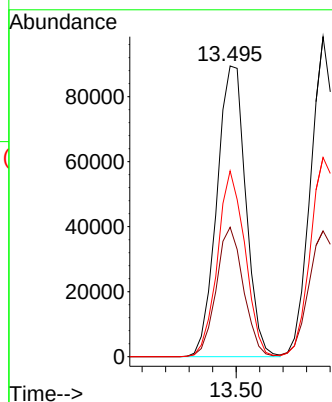
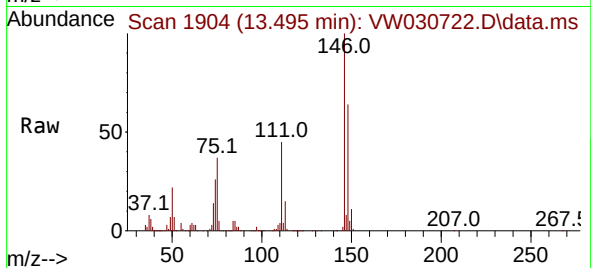
Tgt Ion:146 Resp: 152940

Ion Ratio Lower Upper

146 100

111 44.5 31.2 58.0

148 63.9 45.7 84.9



#65

1,4-Dichlorobenzene

Concen: 20.642 ug/L

RT: 13.574 min Scan# 1917

Delta R.T. -0.000 min

Lab File: VW030722.D

Acq: 23 Oct 2024 14:05

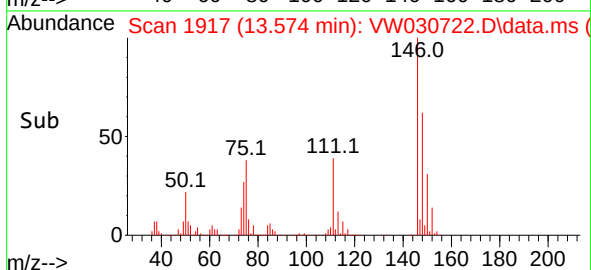
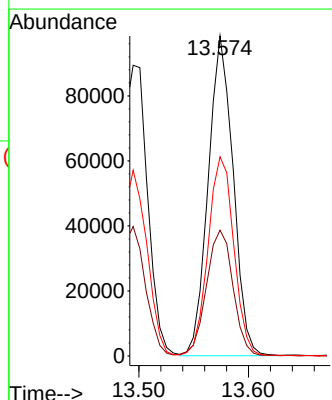
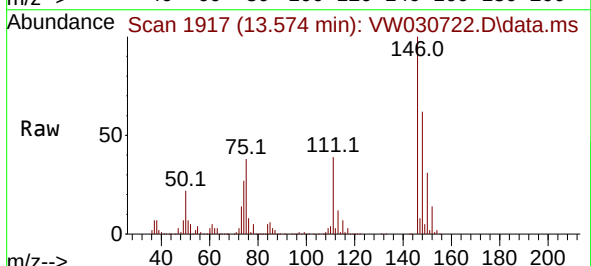
Tgt Ion:146 Resp: 155616

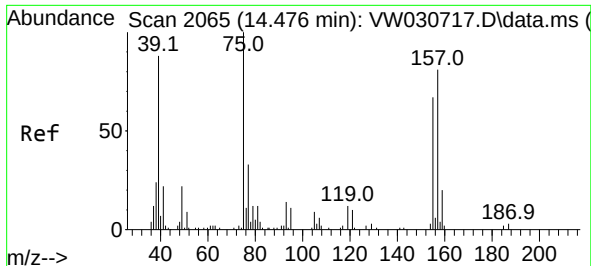
Ion Ratio Lower Upper

146 100

111 39.3 26.8 49.8

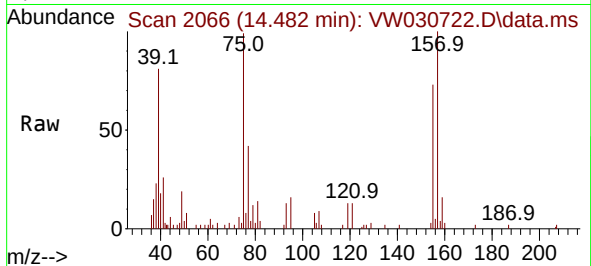
148 62.3 41.0 76.2



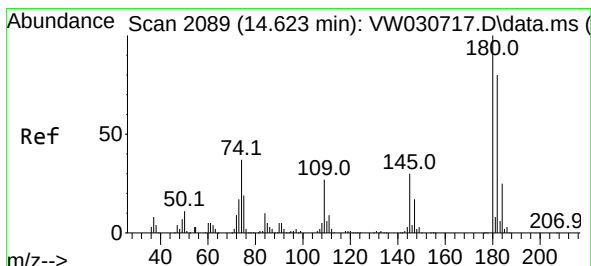
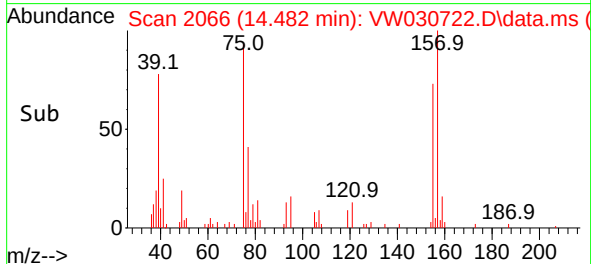
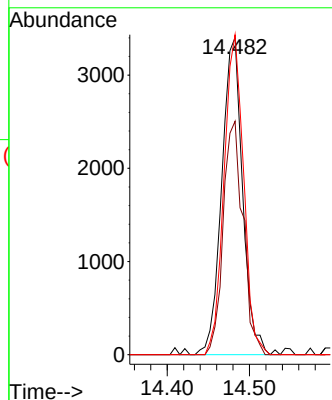


#68
1,2-Dibromo-3-chloropropane
Concen: 12.803 ug/L
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW030722.D
Acq: 23 Oct 2024 14:05

Instrument :
MSVOA_W
ClientSampleId :

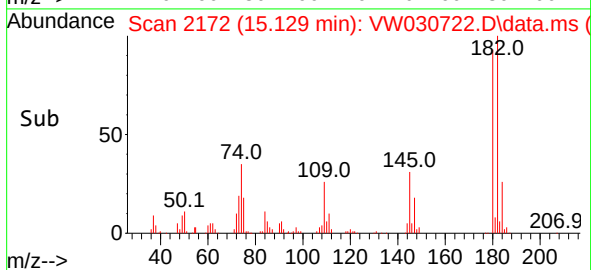
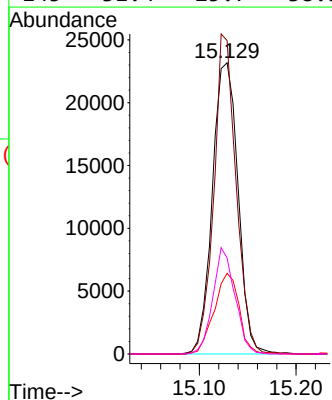
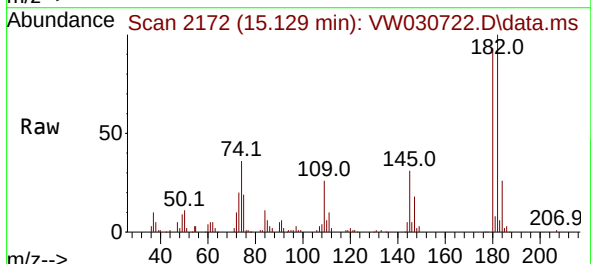


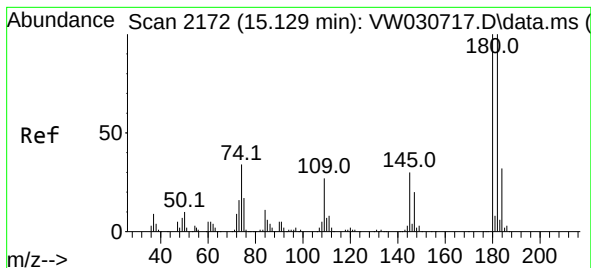
Tgt Ion: 75 Resp: 6017
Ion Ratio Lower Upper
75 100
155 73.6 57.9 86.9
157 100.9 69.0 103.6



#69
1,3,5-Trichlorobenzene
Concen: 8.861 ug/L
RT: 15.129 min Scan# 2172
Delta R.T. 0.506 min
Lab File: VW030722.D
Acq: 23 Oct 2024 14:05

Tgt Ion:180 Resp: 42664
Ion Ratio Lower Upper
180 100
182 95.5 79.9 119.9
184 26.8 25.2 37.8
145 31.4 25.7 38.5





#70

1,2,4-trichlorobenzene

Concen: 11.007 ug/L

RT: 15.129 min Scan# 2172

Delta R.T. -0.000 min

Lab File: VW030722.D

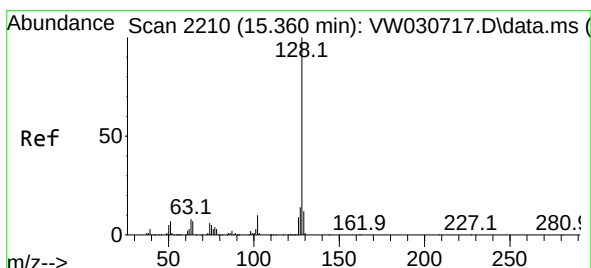
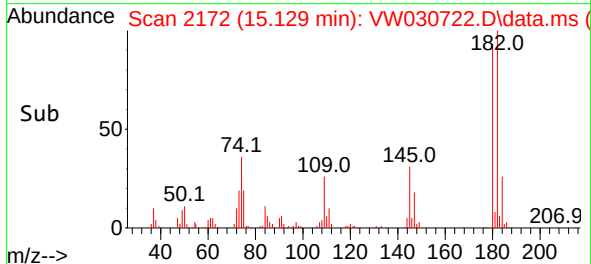
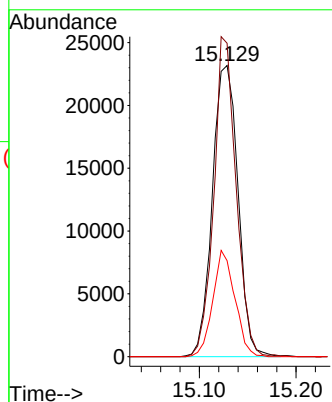
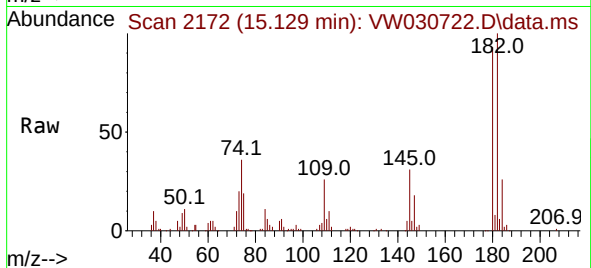
Acq: 23 Oct 2024 14:05

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:180	Resp:	42664
Ion Ratio	Lower	Upper
180	100	
182	95.5	75.2 112.8
145	31.4	25.4 38.2



#71

Naphthalene

Concen: 42.603 ug/L

RT: 15.360 min Scan# 2210

Delta R.T. -0.000 min

Lab File: VW030722.D

Acq: 23 Oct 2024 14:05

Tgt Ion:128	Resp:	285285
Ion Ratio	Lower	Upper
128	100	
127	13.6	10.9 16.3
129	10.7	8.8 13.2

