

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW101824\
 Data File : VW030659.D
 Acq On : 18 Oct 2024 12:59
 Operator : SY/MD
 Sample : P4429-01
 Misc : 5.00g/10mL/MSVOA_W/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 A4E93

Quant Time: Oct 19 00:26:13 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM100924SMA.M
 Quant Title : SFAM01.0
 QLast Update : Sat Oct 19 00:23:37 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.837	114	275680	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	254392	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	120150	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.356	65	68151	15.727	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	62.920%
7) Chloroethane-d5	2.893	69	61599	18.780	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	75.120%
11) 1,1-Dichloroethene-d2	4.021	65	29064	16.126	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	64.520%
21) 2-Butanone-d5	7.081	46	39317	50.418	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	100.840%
24) Chloroform-d	7.648	84	186989	23.718	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	94.880%
26) 1,2-Dichloroethane-d4	8.300	65	86846	21.184	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	84.720%
32) Benzene-d6	8.276	84	276668	18.738	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	74.960%
36) 1,2-Dichloropropane-d6	9.270	67	88008	20.308	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	81.240%
41) Toluene-d8	10.318	98	261830	19.426	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	77.720%
43) trans-1,3-Dichloroprop...	10.574	79	36676	20.211	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	80.840%
47) 2-Hexanone-d5	10.922	63	30298	54.281	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.560%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	82921	26.054	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	104.200%
66) 1,2-Dichlorobenzene-d4	13.848	152	83285	20.486	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	81.960%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.039	96	144515	39.072	ug/L	88
13) Acetone	4.118	43	80774	70.750	ug/L	99
16) Methylene chloride	4.917	84	325302	78.053	ug/L	97
17) trans-1,2-Dichloroethene	5.423	96	122073	30.586	ug/L	95
18) Methyl tert-butyl Ether	5.423	73	247280	44.270	ug/L	99
19) 1,1-Dichloroethane	6.209	63	677270	91.304	ug/L	98
22) 2-Butanone	7.167	43	257089	208.905	ug/L	96
25) Chloroform	7.673	83	727588	91.787	ug/L	98
31) Carbon tetrachloride	8.069	117	95773	15.879	ug/L	98
33) Benzene	8.325	78	1096707	66.248	ug/L	100
34) Trichloroethene	9.087	95	428413	93.020	ug/L	98
37) 1,2-Dichloropropane	9.367	63	156664	37.891	ug/L	100
39) cis-1,3-Dichloropropene	10.068	75	411021	65.906	ug/L	97
40) 4-Methyl-2-pentanone	10.209	43	340665	171.507	ug/L	99
44) trans-1,3-Dichloropropene	10.605	75	391173	74.642	ug/L	99
45) 1,1,2-Trichloroethane	10.782	97	150854	50.483	ug/L	98
50) 1,2-Dibromoethane	11.233	107	132209	47.416	ug/L	98
53) m,p-Xylene	11.830	106	373252	49.437	ug/L	87
54) o-Xylene	12.160	106	462287	66.229	ug/L	89

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Quant Title : SFAM01.0
QLast Update : Sat Oct 19 00:23:37 2024
Response via : Initial Calibration

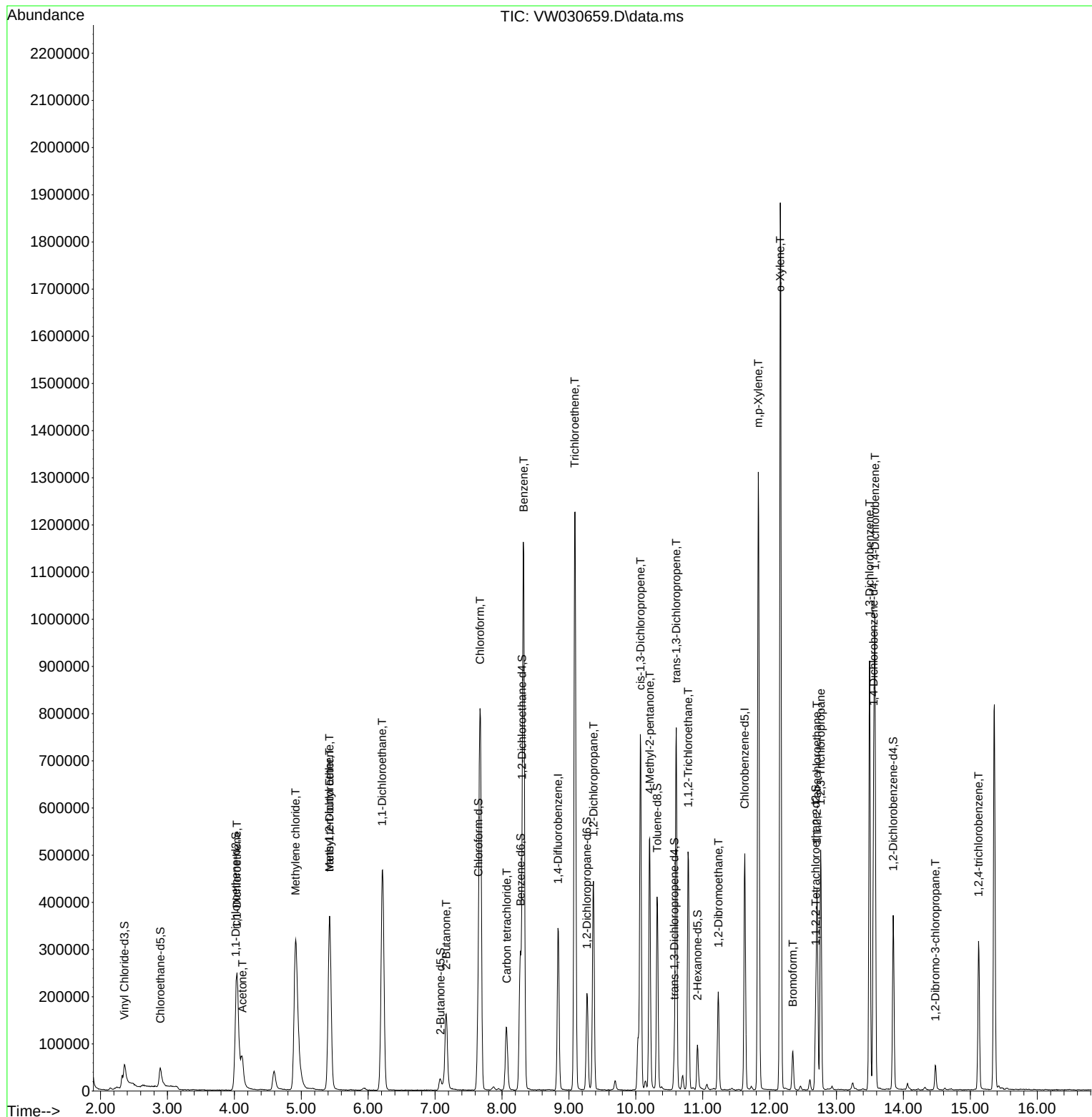
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) 1,1,2,2-Tetrachloroethane	12.708	83	181048	53.727	ug/L	97
59) Bromoform	12.349	173	33826	20.038	ug/L	100
61) 1,2,3-Trichloropropane	12.763	75	197828	84.614	ug/L	98
64) 1,3-Dichlorobenzene	13.495	146	331727	40.959	ug/L	96
65) 1,4-Dichlorobenzene	13.574	146	324685	38.825	ug/L	100
68) 1,2-Dibromo-3-chloropr...	14.476	75	12738	24.435	ug/L	98
70) 1,2,4-trichlorobenzene	15.122	180	91825	21.357	ug/L	97

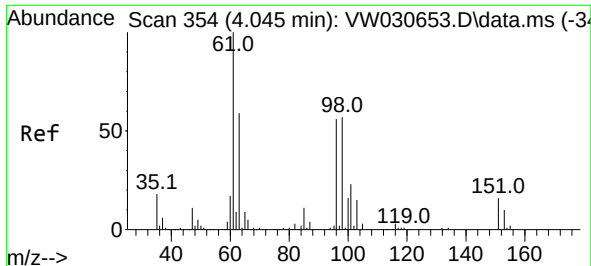
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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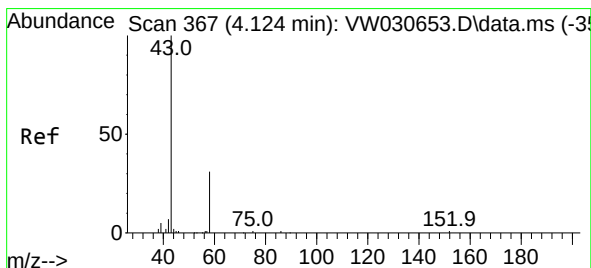
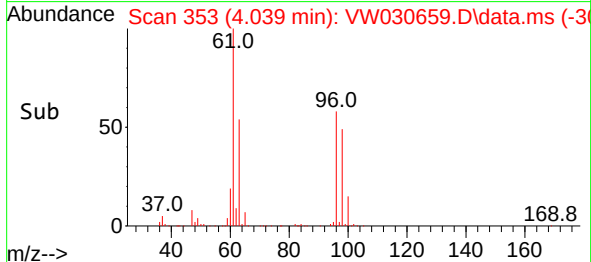
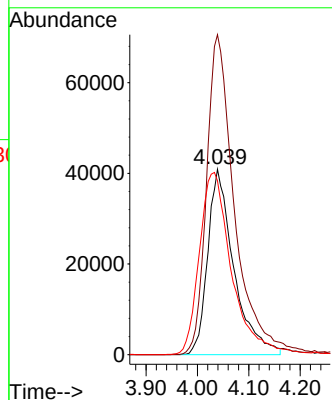
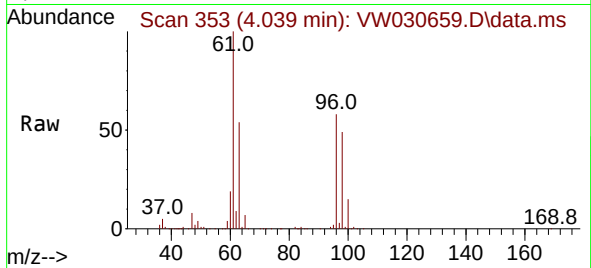




#12
1,1-Dichloroethene
Concen: 39.072 ug/L
RT: 4.039 min Scan# 353
Delta R.T. -0.006 min
Lab File: VW030659.D
Acq: 18 Oct 2024 12:59

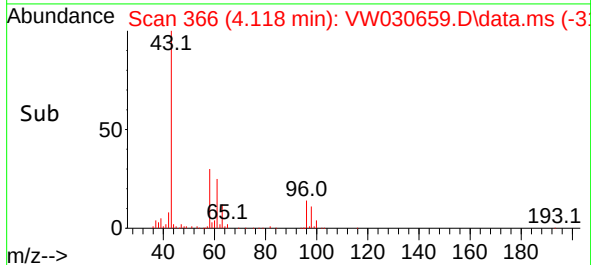
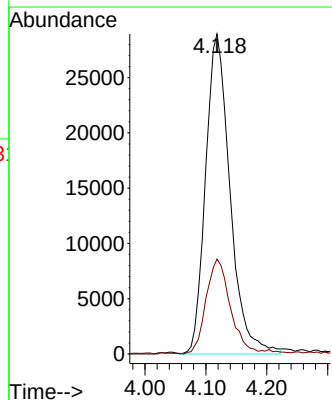
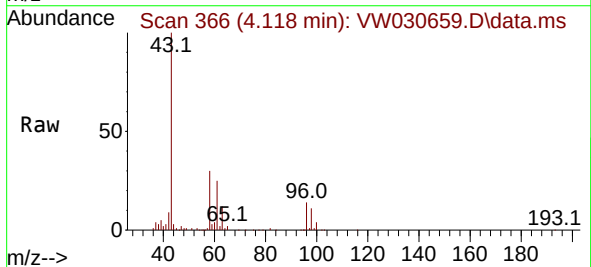
Instrument :
MSVOA_W
ClientSampleId :
A4E93

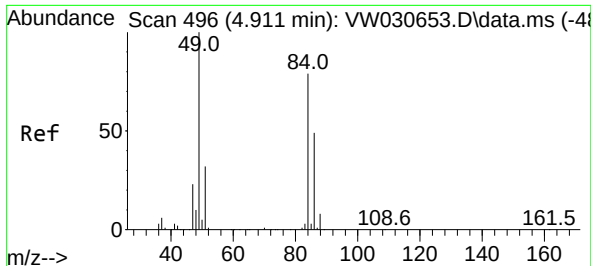
Tgt Ion: 96 Resp: 144515
Ion Ratio Lower Upper
96 100
61 172.6 121.3 225.3
63 93.8 87.6 162.8



#13
Acetone
Concen: 70.750 ug/L
RT: 4.118 min Scan# 366
Delta R.T. -0.006 min
Lab File: VW030659.D
Acq: 18 Oct 2024 12:59

Tgt Ion: 43 Resp: 80774
Ion Ratio Lower Upper
43 100
58 29.2 0.0 57.6

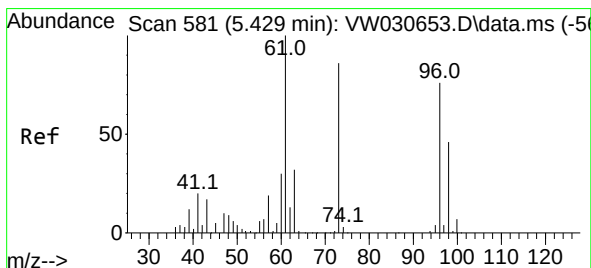
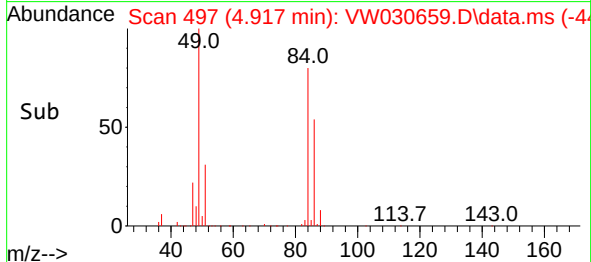
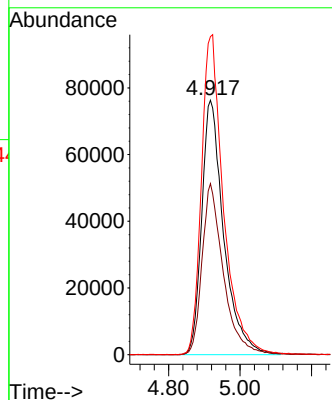
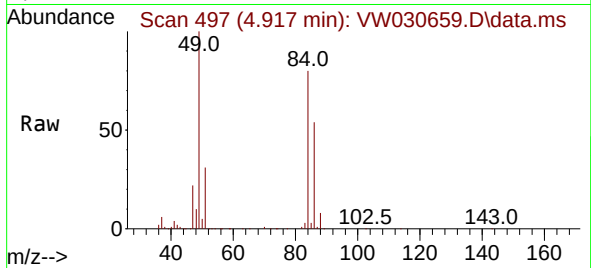




#16
Methylene chloride
Concen: 78.053 ug/L
RT: 4.917 min Scan# 49
Delta R.T. 0.006 min
Lab File: VW030659.D
Acq: 18 Oct 2024 12:59

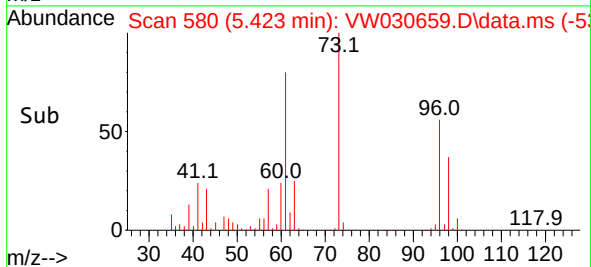
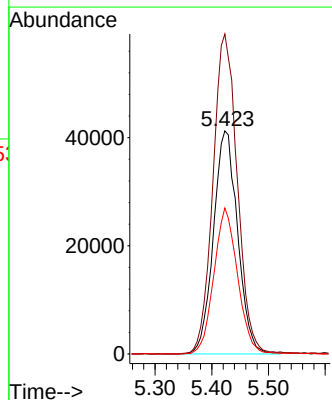
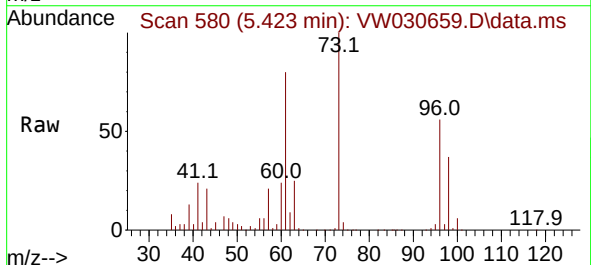
Instrument :
MSVOA_W
ClientSampleId :
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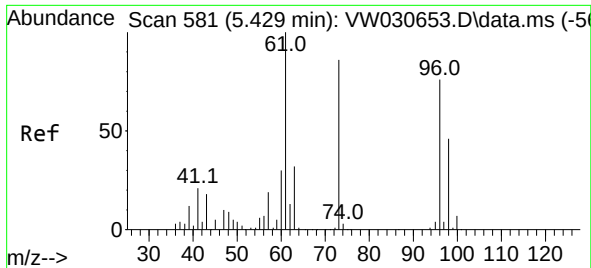
Tgt Ion: 84 Resp: 325302
Ion Ratio Lower Upper
84 100
86 67.3 43.8 81.3
49 125.1 88.3 164.1



#17
trans-1,2-Dichloroethene
Concen: 30.586 ug/L
RT: 5.423 min Scan# 580
Delta R.T. -0.006 min
Lab File: VW030659.D
Acq: 18 Oct 2024 12:59

Tgt Ion: 96 Resp: 122073
Ion Ratio Lower Upper
96 100
61 143.5 96.9 179.9
98 65.5 42.2 78.4

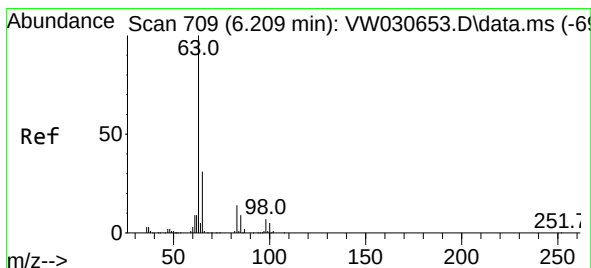
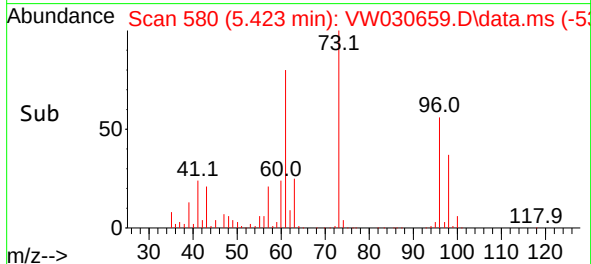
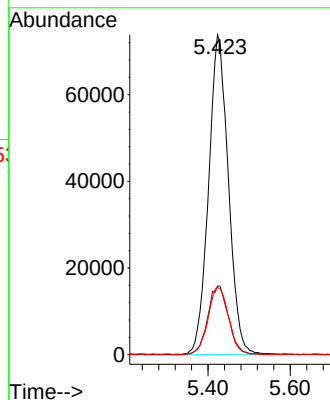
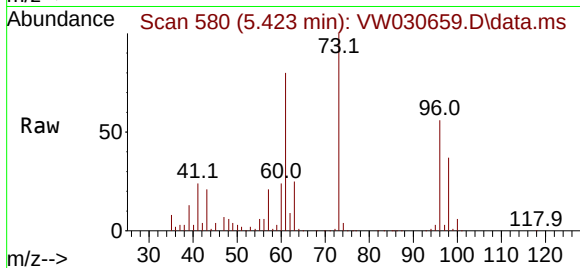




#18
Methyl tert-butyl Ether
Concen: 44.270 ug/L
RT: 5.423 min Scan# 581
Delta R.T. -0.006 min
Lab File: VW030659.D
Acq: 18 Oct 2024 12:59

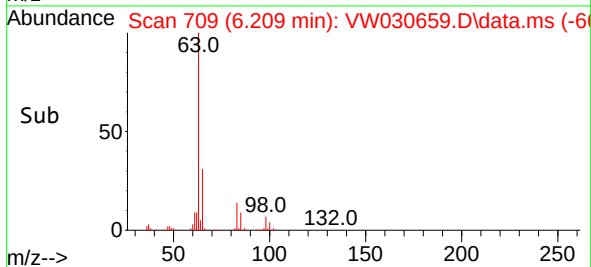
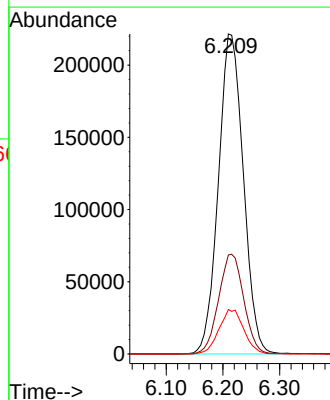
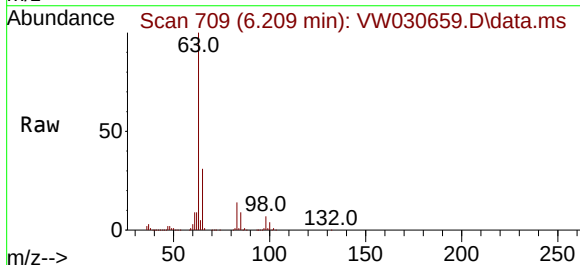
Instrument :
MSVOA_W
ClientSampleId :
A4E93

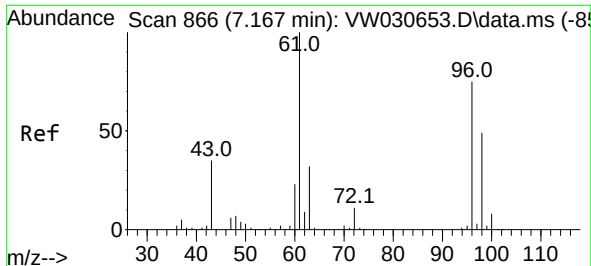
Tgt Ion: 73 Resp: 247280
Ion Ratio Lower Upper
73 100
43 22.2 18.1 27.1
57 21.9 17.7 26.5



#19
1,1-Dichloroethane
Concen: 91.304 ug/L
RT: 6.209 min Scan# 709
Delta R.T. -0.000 min
Lab File: VW030659.D
Acq: 18 Oct 2024 12:59

Tgt Ion: 63 Resp: 677270
Ion Ratio Lower Upper
63 100
65 30.9 22.5 41.9
83 13.9 9.8 18.2

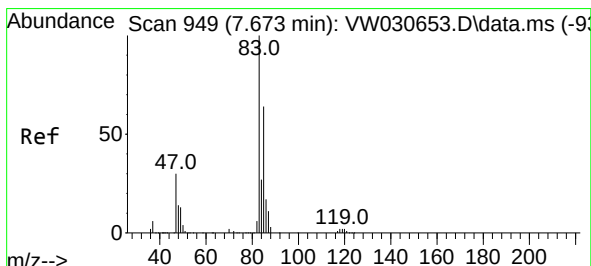
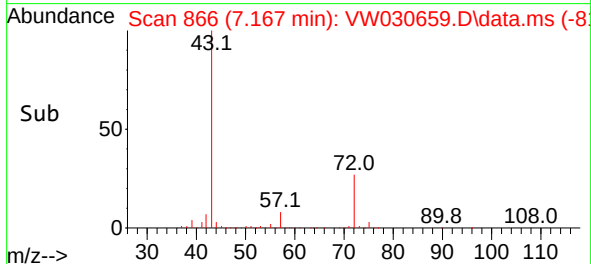
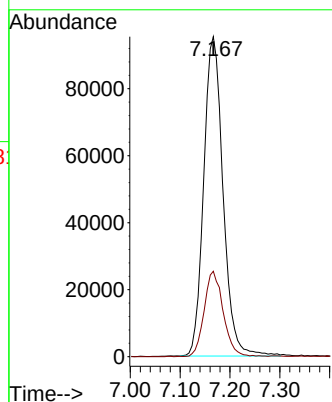
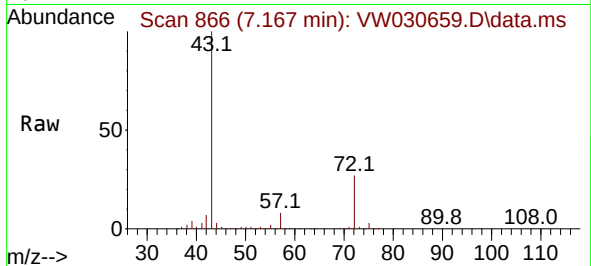




#22
2-Butanone
Concen: 208.905 ug/L
RT: 7.167 min Scan# 866
Delta R.T. -0.000 min
Lab File: VW030659.D
Acq: 18 Oct 2024 12:59

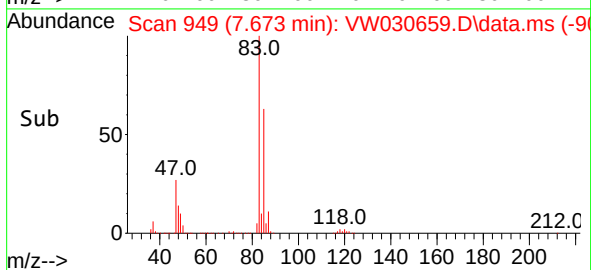
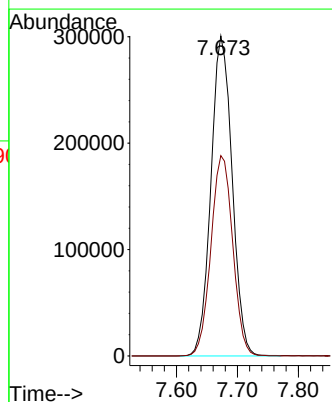
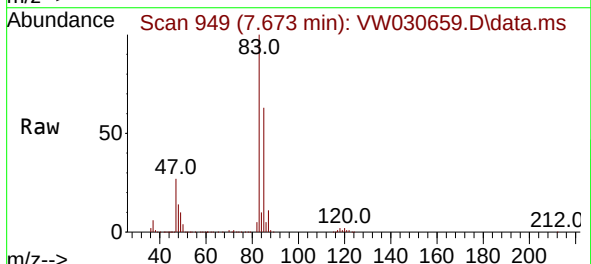
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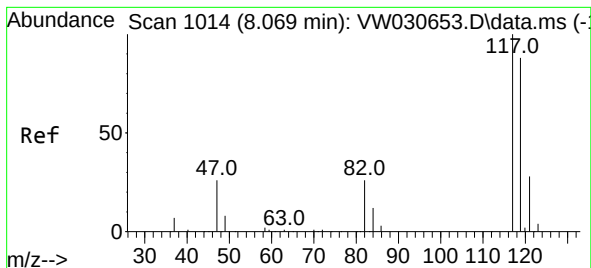
Tgt Ion: 43 Resp: 257089
Ion Ratio Lower Upper
43 100
72 26.3 14.4 43.0



#25
Chloroform
Concen: 91.787 ug/L
RT: 7.673 min Scan# 949
Delta R.T. -0.000 min
Lab File: VW030659.D
Acq: 18 Oct 2024 12:59

Tgt Ion: 83 Resp: 727588
Ion Ratio Lower Upper
83 100
85 62.6 45.1 83.7

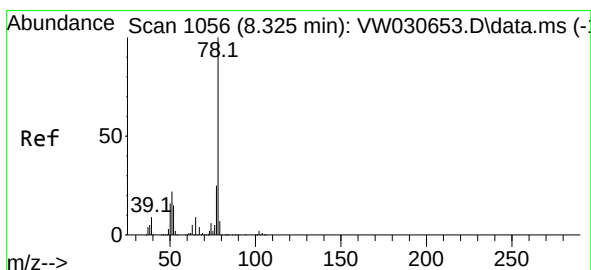
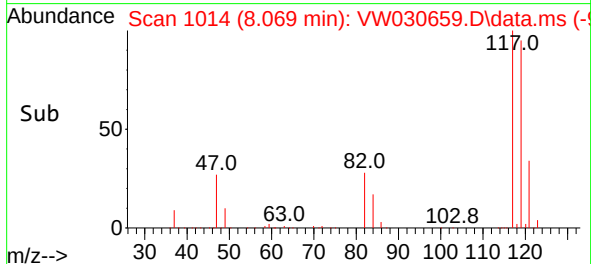
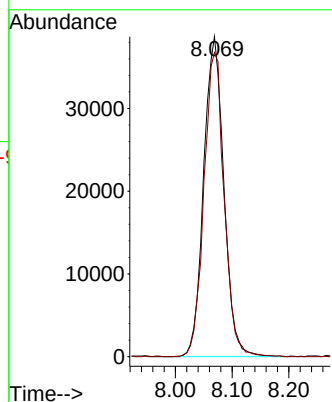
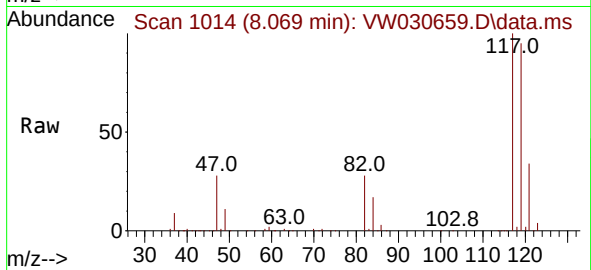




#31
Carbon tetrachloride
Concen: 15.879 ug/L
RT: 8.069 min Scan# 1014
Delta R.T. -0.000 min
Lab File: VW030659.D
Acq: 18 Oct 2024 12:59

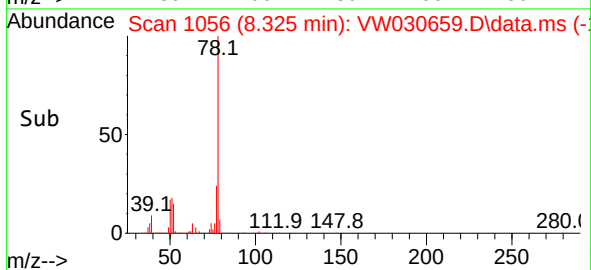
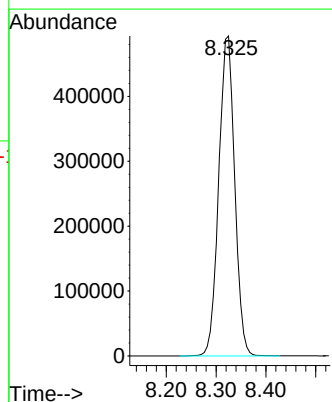
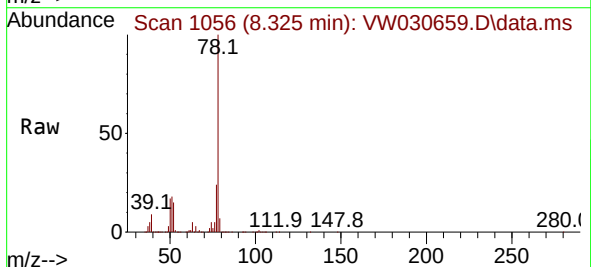
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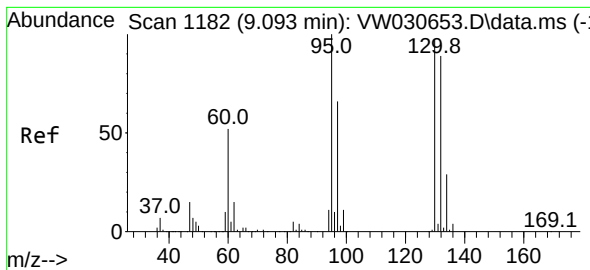
Tgt Ion:117 Resp: 95773
Ion Ratio Lower Upper
117 100
119 95.2 77.8 116.8



#33
Benzene
Concen: 66.248 ug/L
RT: 8.325 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VW030659.D
Acq: 18 Oct 2024 12:59

Tgt Ion: 78 Resp: 1096707





#34

Trichloroethene

Concen: 93.020 ug/L

RT: 9.087 min Scan# 1182

Delta R.T. -0.006 min

Lab File: VW030659.D

Acq: 18 Oct 2024 12:59

Instrument :

MSVOA_W

ClientSampleId :

A4E93

Tgt Ion: 95 Resp: 428413

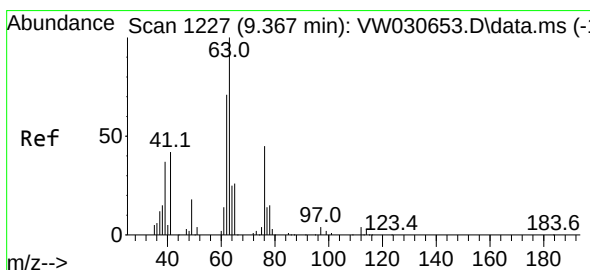
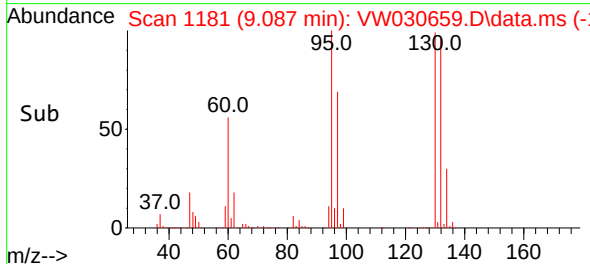
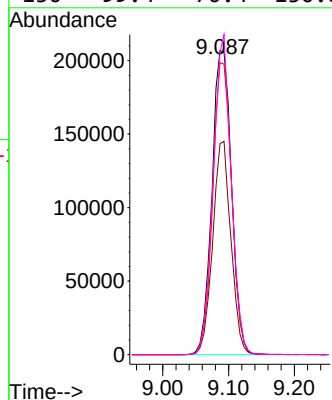
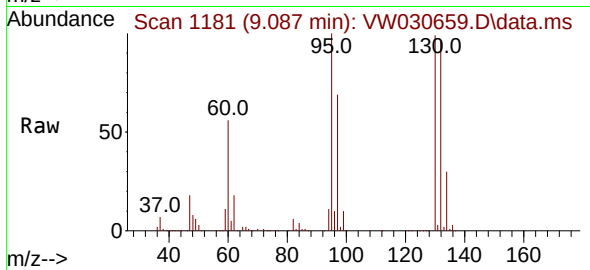
Ion Ratio Lower Upper

95 100

97 69.4 45.9 85.3

132 96.0 66.4 123.2

130 99.4 70.4 130.8



#37

1,2-Dichloropropane

Concen: 37.891 ug/L

RT: 9.367 min Scan# 1227

Delta R.T. -0.000 min

Lab File: VW030659.D

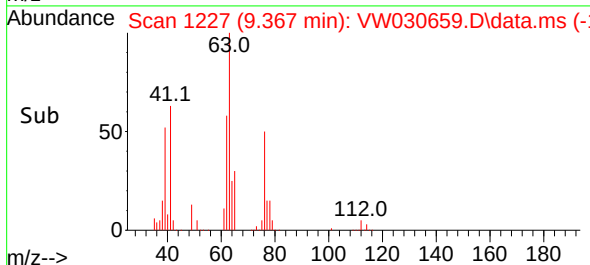
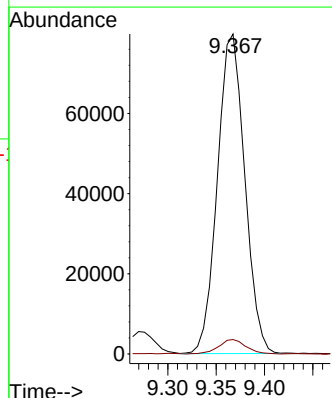
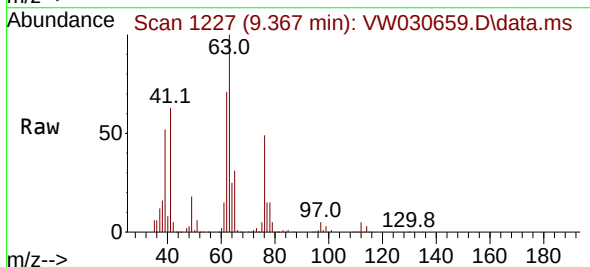
Acq: 18 Oct 2024 12:59

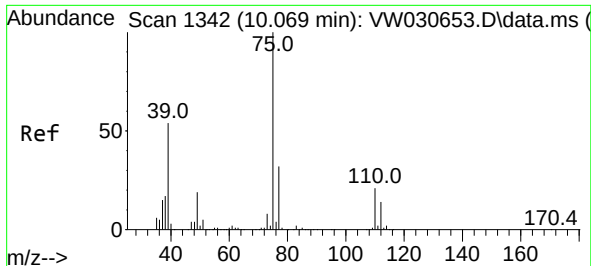
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Ion Ratio Lower Upper

63 100

112 4.5 3.7 5.5

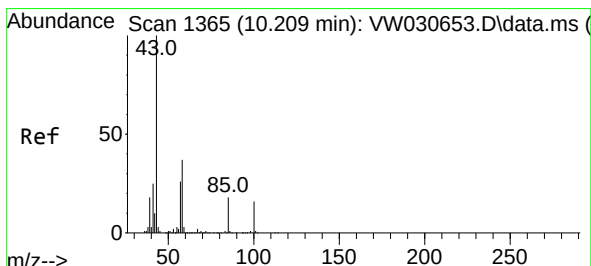
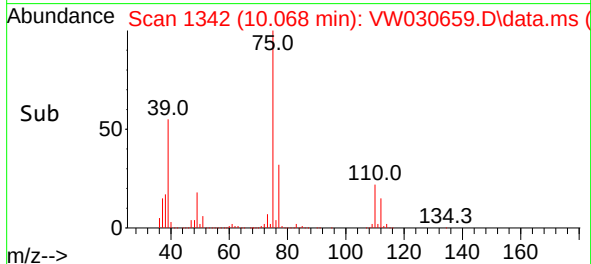
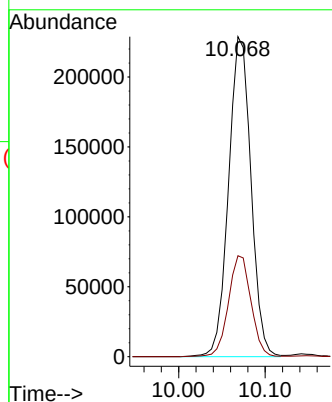
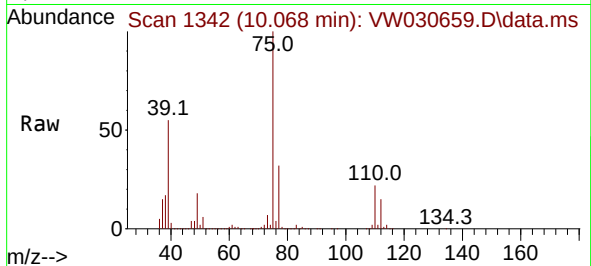




#39
 cis-1,3-Dichloropropene
 Concen: 65.906 ug/L
 RT: 10.068 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VW030659.D
 Acq: 18 Oct 2024 12:59

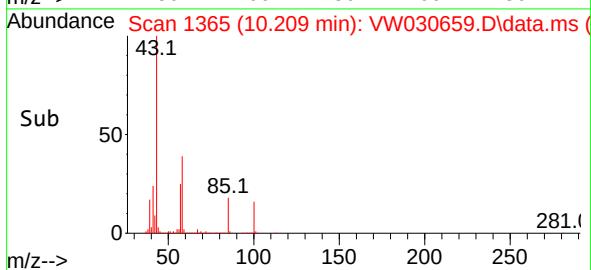
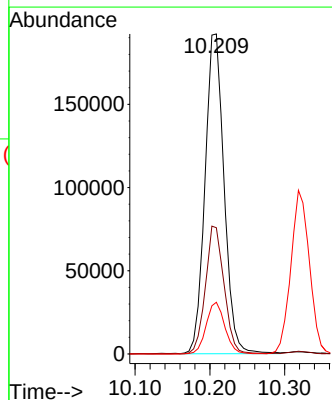
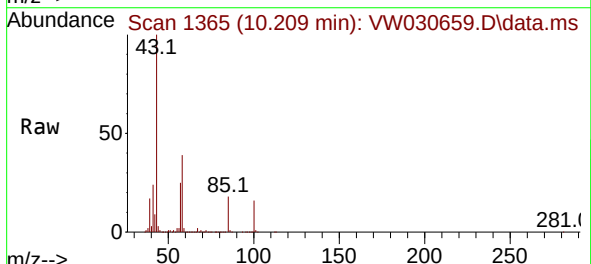
Instrument :
 MSVOA_W
 ClientSampleId :
 A4E93

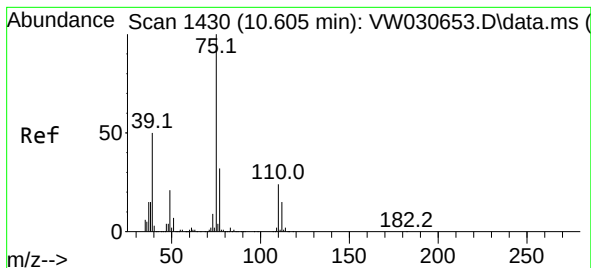
Tgt Ion: 75 Resp: 411021
 Ion Ratio Lower Upper
 75 100
 77 31.6 21.1 39.1



#40
 4-Methyl-2-pentanone
 Concen: 171.507 ug/L
 RT: 10.209 min Scan# 1365
 Delta R.T. -0.000 min
 Lab File: VW030659.D
 Acq: 18 Oct 2024 12:59

Tgt Ion: 43 Resp: 340665
 Ion Ratio Lower Upper
 43 100
 58 39.0 31.4 47.2
 100 15.8 13.1 19.7





#44

trans-1,3-Dichloropropene

Concen: 74.642 ug/L

RT: 10.605 min Scan# 14

Delta R.T. -0.000 min

Lab File: VW030659.D

Acq: 18 Oct 2024 12:59

Instrument :

MSVOA_W

ClientSampleId :

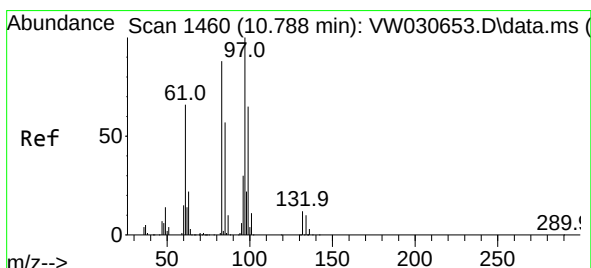
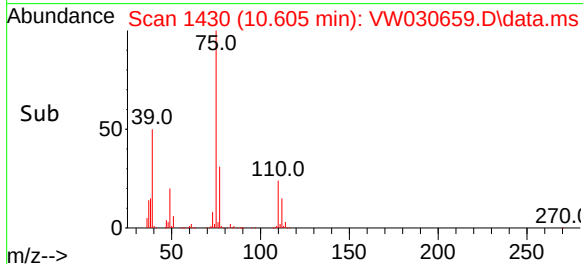
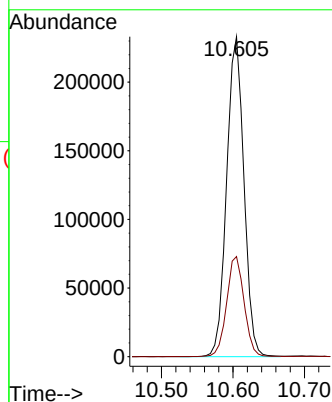
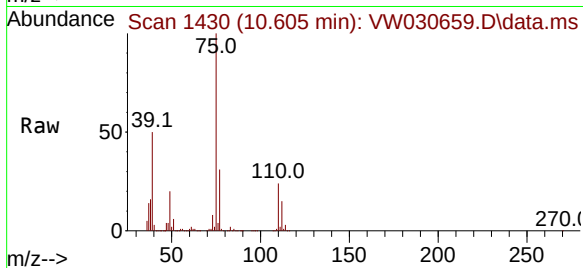
A4E93

Tgt Ion: 75 Resp: 391173

Ion Ratio Lower Upper

75 100

77 31.3 21.6 40.2



#45

1,1,2-Trichloroethane

Concen: 50.483 ug/L

RT: 10.782 min Scan# 1459

Delta R.T. -0.006 min

Lab File: VW030659.D

Acq: 18 Oct 2024 12:59

Tgt Ion: 97 Resp: 150854

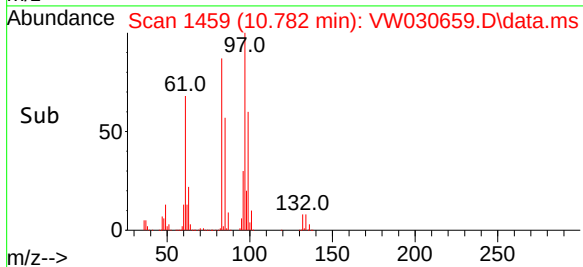
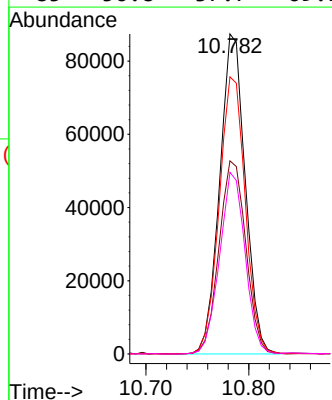
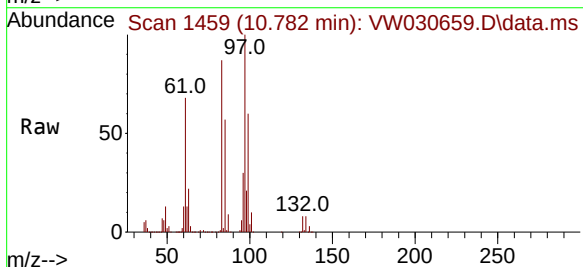
Ion Ratio Lower Upper

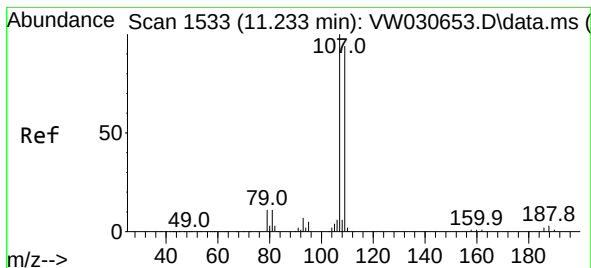
97 100

99 60.4 41.2 76.6

83 86.6 59.6 110.6

85 56.8 37.7 69.9

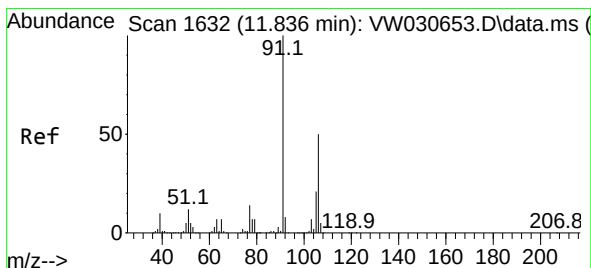
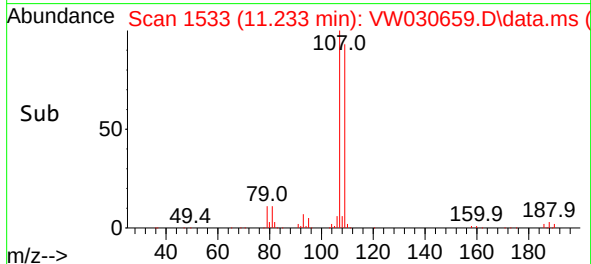
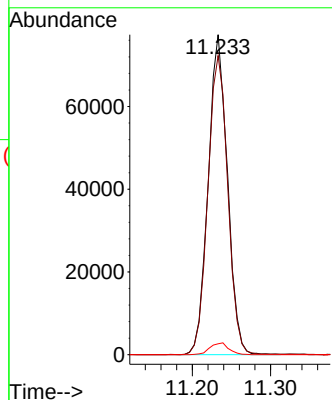
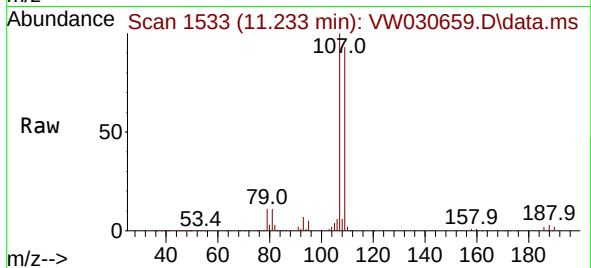




#50
1,2-Dibromoethane
Concen: 47.416 ug/L
RT: 11.233 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW030659.D
Acq: 18 Oct 2024 12:59

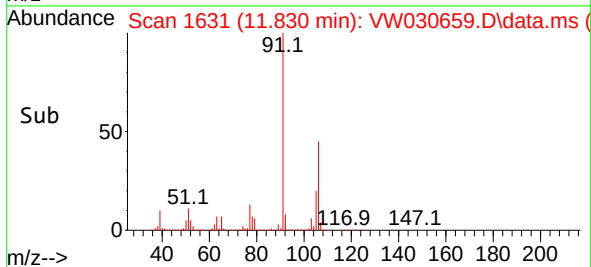
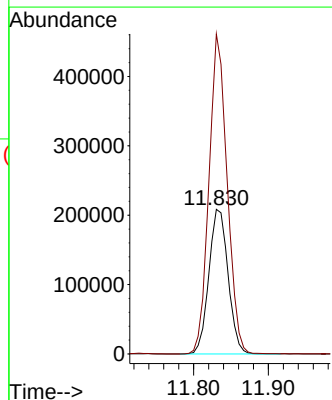
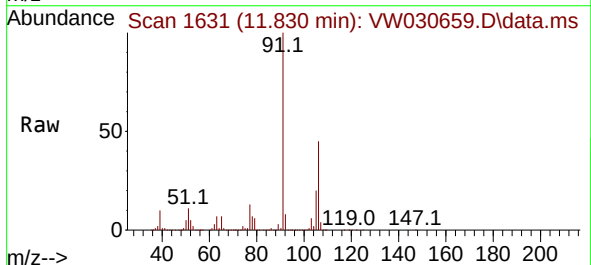
Instrument :
MSVOA_W
ClientSampleId :
A4E93

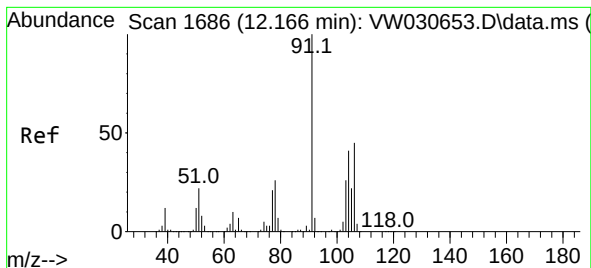
Tgt Ion:107 Resp: 132209
Ion Ratio Lower Upper
107 100
109 93.4 63.8 118.6
188 3.4 2.6 3.8



#53
m,p-Xylene
Concen: 49.437 ug/L
RT: 11.830 min Scan# 1631
Delta R.T. -0.006 min
Lab File: VW030659.D
Acq: 18 Oct 2024 12:59

Tgt Ion:106 Resp: 373252
Ion Ratio Lower Upper
106 100
91 221.3 140.6 261.2

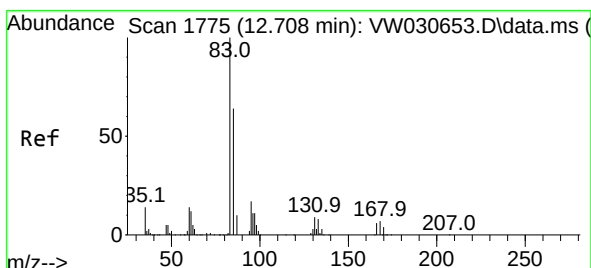
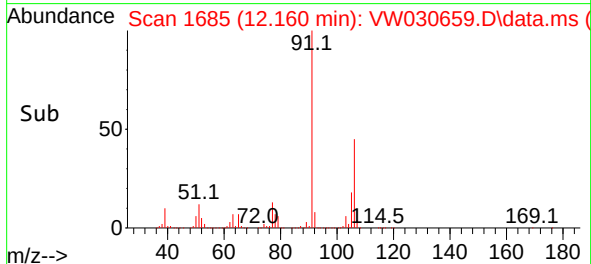
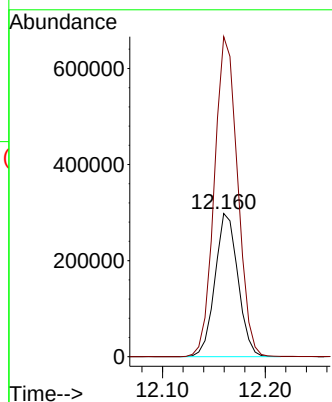
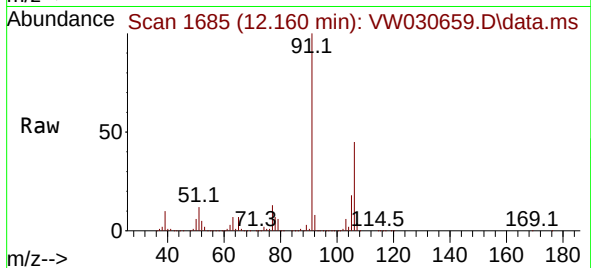




#54
o-Xylene
Concen: 66.229 ug/L
RT: 12.160 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW030659.D
Acq: 18 Oct 2024 12:59

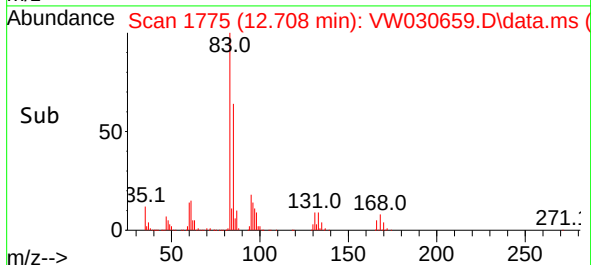
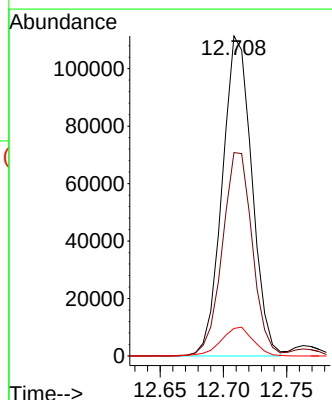
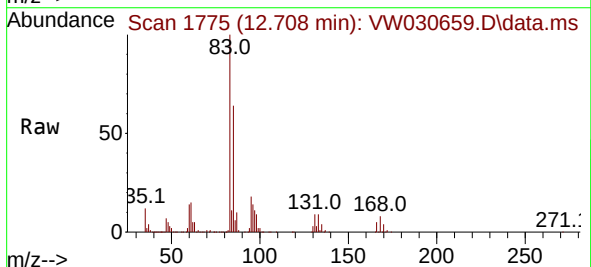
Instrument :
MSVOA_W
ClientSampleId :
A4E93

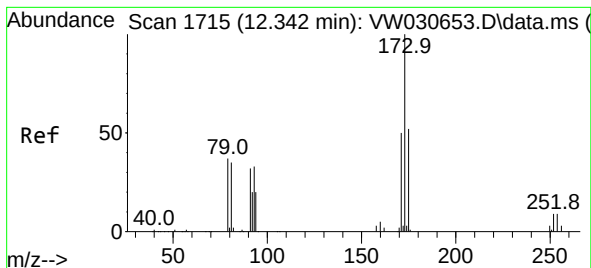
Tgt Ion:106 Resp: 462287
Ion Ratio Lower Upper
106 100
91 223.5 144.5 268.4



#57
1,1,2,2-Tetrachloroethane
Concen: 53.727 ug/L
RT: 12.708 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VW030659.D
Acq: 18 Oct 2024 12:59

Tgt Ion: 83 Resp: 181048
Ion Ratio Lower Upper
83 100
85 63.6 42.6 79.2
131 8.6 7.4 11.0





#59

Bromoform

Concen: 20.038 ug/L

RT: 12.349 min Scan# 1715

Delta R.T. 0.006 min

Lab File: VW030659.D

Acq: 18 Oct 2024 12:59

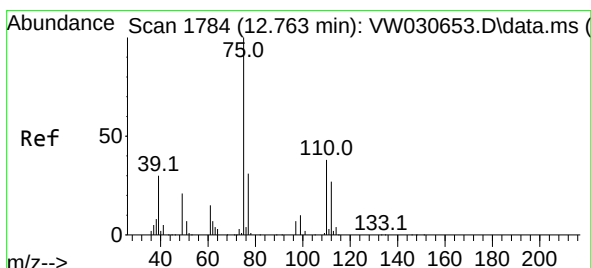
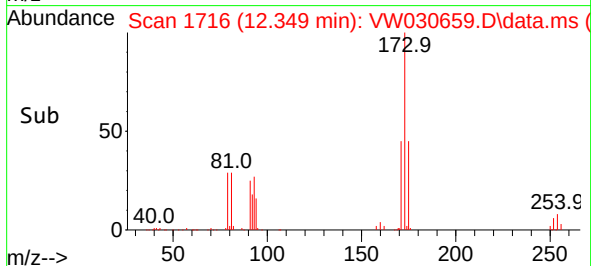
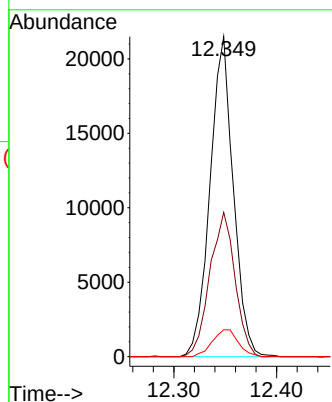
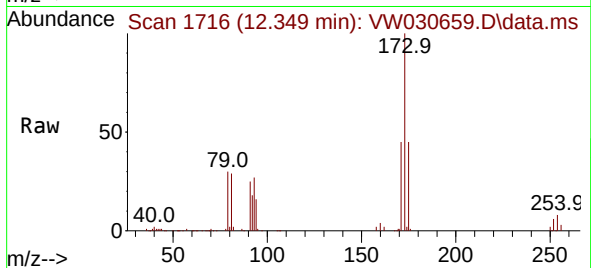
Instrument :

MSVOA_W

ClientSampleId :

A4E93

Tgt Ion:	173	Resp:	33826
Ion Ratio	Lower	Upper	
173	100		
175	48.7	39.0	58.4
254	9.4	7.7	11.5



#61

1,2,3-Trichloropropane

Concen: 84.614 ug/L

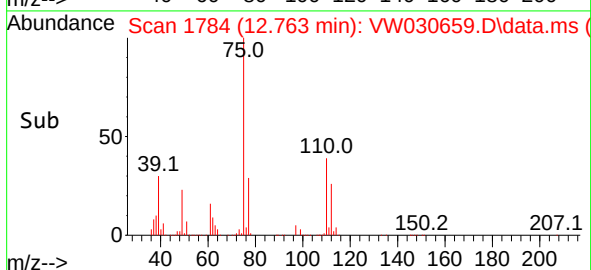
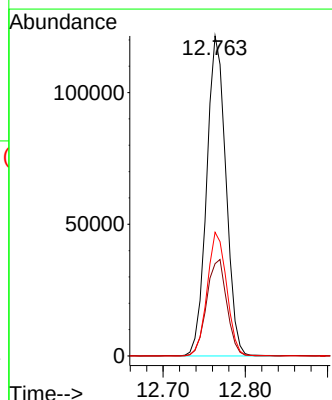
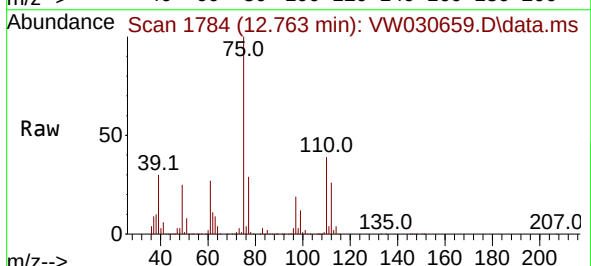
RT: 12.763 min Scan# 1784

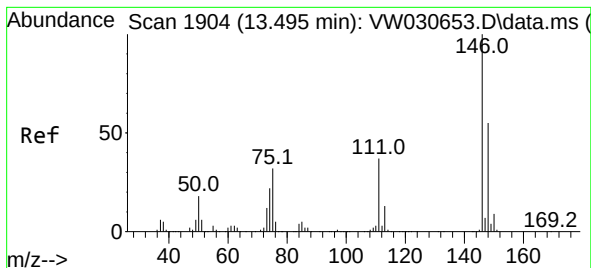
Delta R.T. -0.000 min

Lab File: VW030659.D

Acq: 18 Oct 2024 12:59

Tgt Ion:	75	Resp:	197828
Ion Ratio	Lower	Upper	
75	100		
77	31.6	25.7	38.5
110	39.0	32.3	48.5





#64

1,3-Dichlorobenzene

Concen: 40.959 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. -0.000 min

Lab File: VW030659.D

Acq: 18 Oct 2024 12:59

Instrument :

MSVOA_W

ClientSampleId :

A4E93

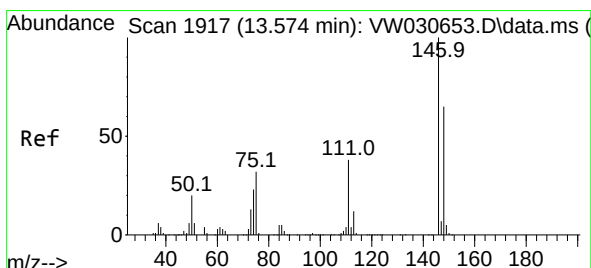
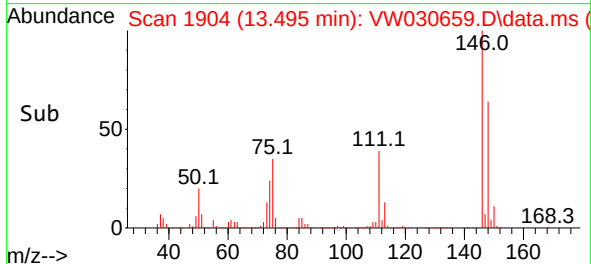
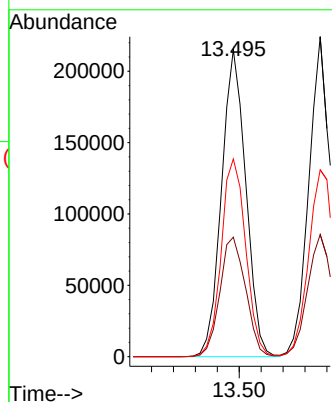
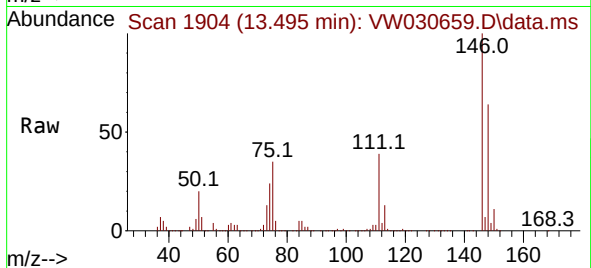
Tgt Ion:146 Resp: 331727

Ion Ratio Lower Upper

146 100

111 38.9 31.2 58.0

148 64.4 45.7 84.9



#65

1,4-Dichlorobenzene

Concen: 38.825 ug/L

RT: 13.574 min Scan# 1917

Delta R.T. -0.000 min

Lab File: VW030659.D

Acq: 18 Oct 2024 12:59

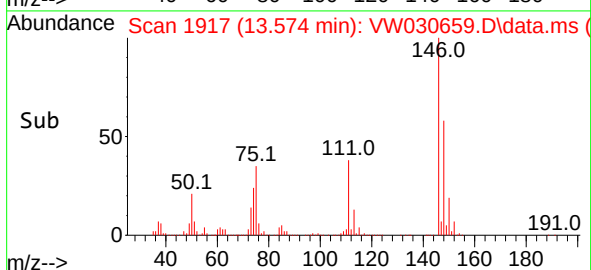
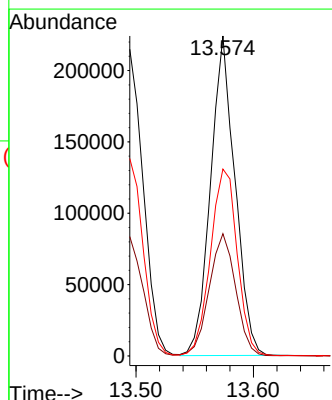
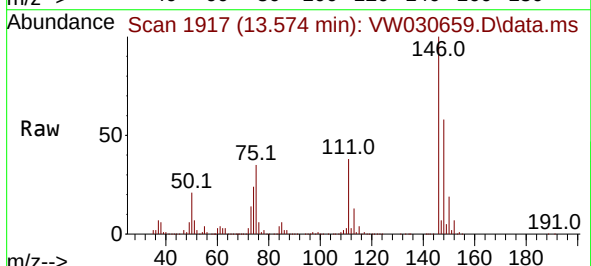
Tgt Ion:146 Resp: 324685

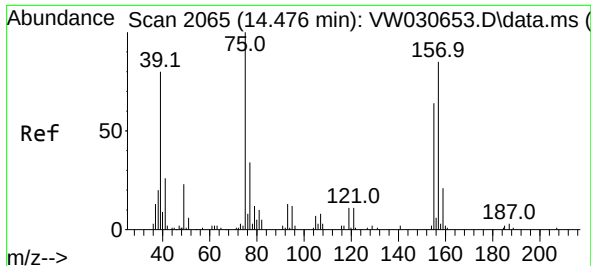
Ion Ratio Lower Upper

146 100

111 38.2 26.8 49.8

148 58.4 41.0 76.2

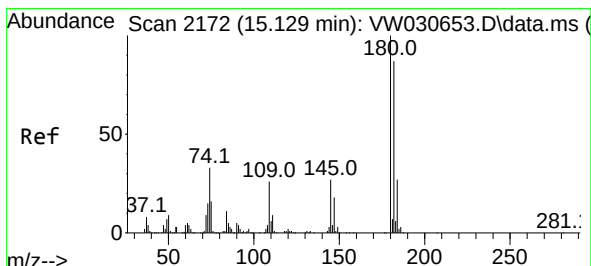
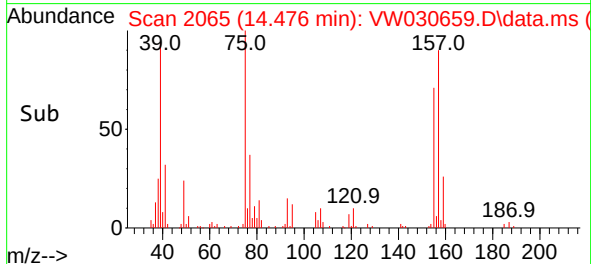
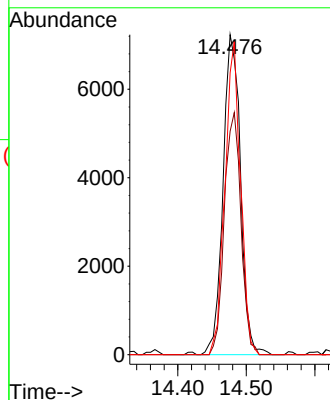
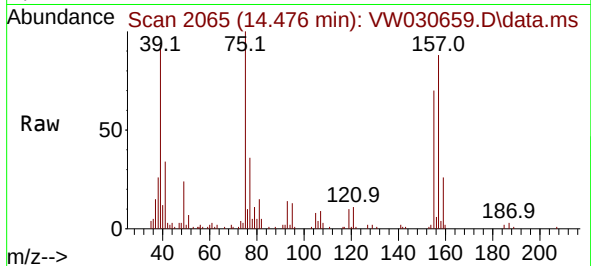




#68
1,2-Dibromo-3-chloropropane
Concen: 24.435 ug/L
RT: 14.476 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VW030659.D
Acq: 18 Oct 2024 12:59

Instrument :
MSVOA_W
ClientSampleId :
A4E93

Tgt Ion: 75 Resp: 12738
Ion Ratio Lower Upper
75 100
155 69.8 57.9 86.9
157 88.1 69.0 103.6



#70
1,2,4-trichlorobenzene
Concen: 21.357 ug/L
RT: 15.122 min Scan# 2171
Delta R.T. -0.006 min
Lab File: VW030659.D
Acq: 18 Oct 2024 12:59

Tgt Ion:180 Resp: 91825
Ion Ratio Lower Upper
180 100
182 90.1 75.2 112.8
145 32.3 25.4 38.2

