

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092424\
 Data File : VW030226.D
 Acq On : 24 Sep 2024 16:03
 Operator : SY/MD
 Sample : P4131-20 2X DL
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 25 01:22:01 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM091624SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Sep 25 01:17:29 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	258032	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	238757	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	110349	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	69719	20.923	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	83.680%
7) Chloroethane-d5	2.899	69	57384	24.393	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.560%
11) 1,1-Dichloroethene-d2	4.021	65	28887	17.350	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	69.400%
21) 2-Butanone-d5	7.075	46	39656	49.148	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	98.300%
24) Chloroform-d	7.648	84	148103	20.875	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	83.480%
26) 1,2-Dichloroethane-d4	8.307	65	75966	21.322	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	85.280%
32) Benzene-d6	8.276	84	264061	19.198	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	76.800%
36) 1,2-Dichloropropane-d6	9.276	67	79761	18.782	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	75.120%
41) Toluene-d8	10.325	98	243408	19.748	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	79.000%
43) trans-1,3-Dichloroprop...	10.575	79	32624	19.175	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	76.680%
47) 2-Hexanone-d5	10.922	63	31810	48.951	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.900%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	70812	22.397	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	89.600%
66) 1,2-Dichlorobenzene-d4	13.848	152	81947	21.876	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	87.520%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.045	96	66732	21.665	ug/L	95
13) Acetone	4.125	43	31296	33.807	ug/L	95
16) Methylene chloride	4.923	84	144926	38.090	ug/L	99
17) trans-1,2-Dichloroethene	5.435	96	52102	15.345	ug/L	98
18) Methyl tert-butyl Ether	5.435	73	114277	21.355	ug/L	97
19) 1,1-Dichloroethane	6.222	63	279898	40.596	ug/L	98
22) 2-Butanone	7.167	43	115735	105.617	ug/L	99
25) Chloroform	7.679	83	292519	41.772	ug/L	100
30) 1,1,1-Trichloroethane	7.874	97	2002	0.347	ug/L	95
31) Carbon tetrachloride	8.069	117	41299	7.870	ug/L	97
33) Benzene	8.325	78	462582	31.689	ug/L	100
34) Trichloroethene	9.093	95	180898	45.907	ug/L	99
37) 1,2-Dichloropropane	9.368	63	65381	16.525	ug/L	99
39) cis-1,3-Dichloropropene	10.069	75	168559	29.122	ug/L	97
40) 4-Methyl-2-pentanone	10.209	43	145415	71.928	ug/L	98
44) trans-1,3-Dichloropropene	10.605	75	161258	33.119	ug/L	96
45) 1,1,2-Trichloroethane	10.782	97	66147	22.976	ug/L	95
48) 2-Hexanone	10.916	43	4307	2.770	ug/L #	37
50) 1,2-Dibromoethane	11.233	107	57847	21.791	ug/L	95

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Quant Title : SFAM01.0
QLast Update : Wed Sep 25 01:17:29 2024
Response via : Initial Calibration

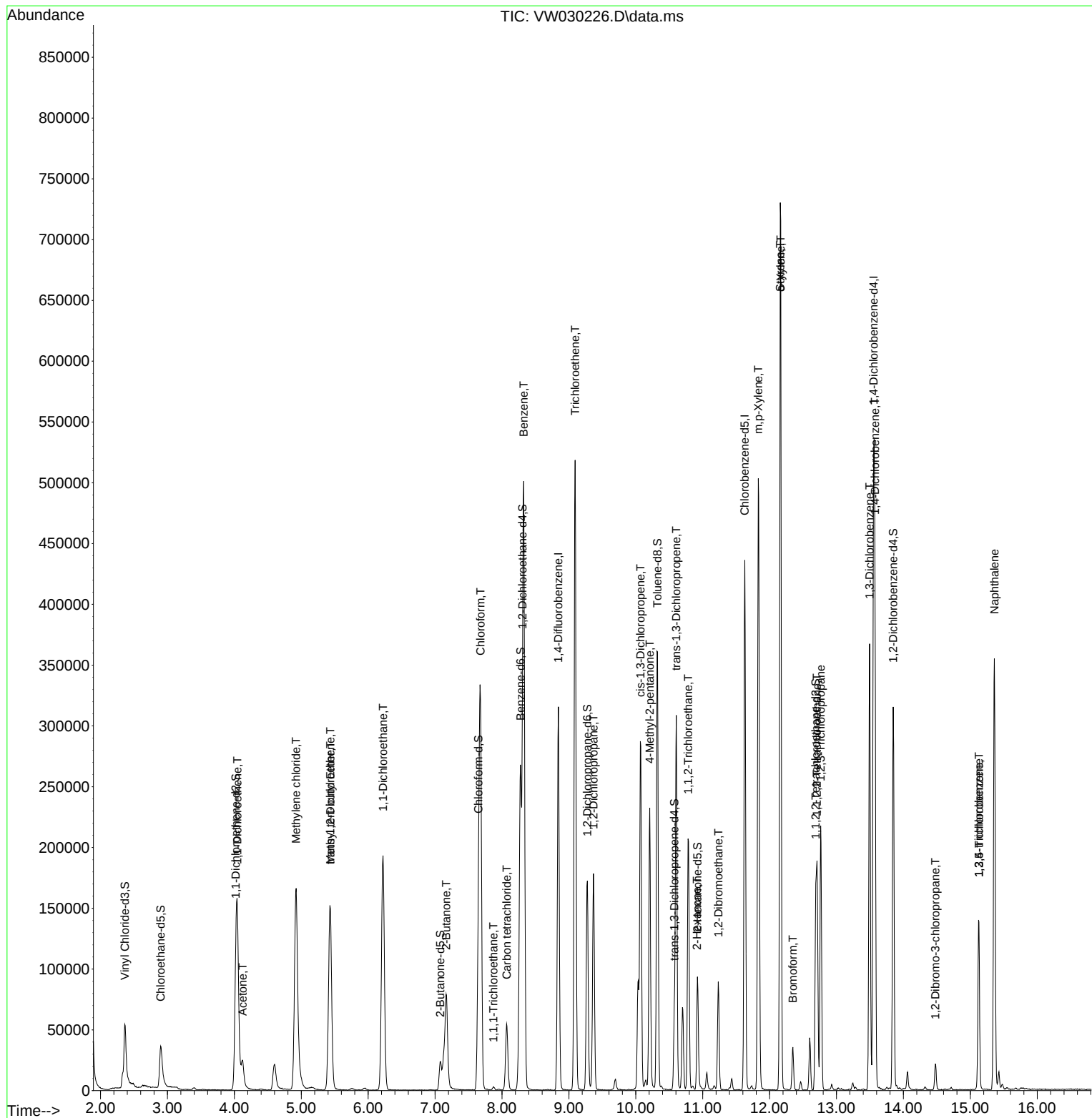
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	11.831	106	152249	23.273	ug/L	86
54) o-Xylene	12.166	106	188006	30.540	ug/L	97
55) Styrene	12.160	104	10007	0.937	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.708	83	80027	23.288	ug/L	99
59) Bromoform	12.349	173	15227	8.719	ug/L	99
61) 1,2,3-Trichloropropane	12.763	75	88610	38.599	ug/L	98
64) 1,3-Dichlorobenzene	13.495	146	140549	19.519	ug/L	96
65) 1,4-Dichlorobenzene	13.574	146	149351	20.076	ug/L	97
68) 1,2-Dibromo-3-chloropr...	14.476	75	5736	11.457	ug/L	96
69) 1,3,5-Trichlorobenzene	15.129	180	43477	8.650	ug/L	98
70) 1,2,4-trichlorobenzene	15.129	180	43477	10.679	ug/L	98
71) Naphthalene	15.360	128	301801	40.821	ug/L	99

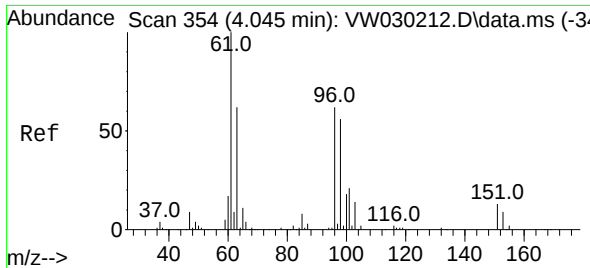
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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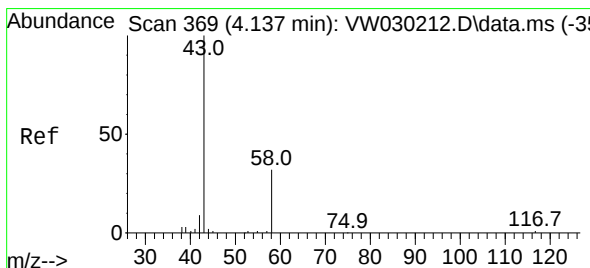
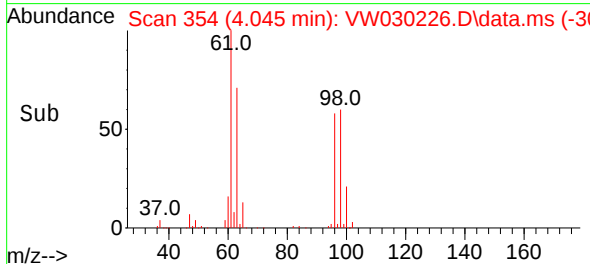
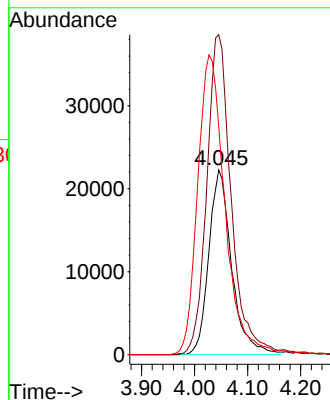
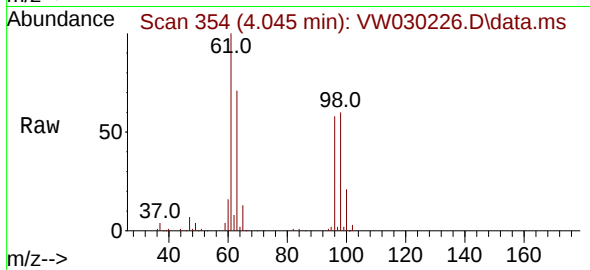




#12
1,1-Dichloroethene
Concen: 21.665 ug/L
RT: 4.045 min Scan# 354
Delta R.T. 0.000 min
Lab File: VW030226.D
Acq: 24 Sep 2024 16:03

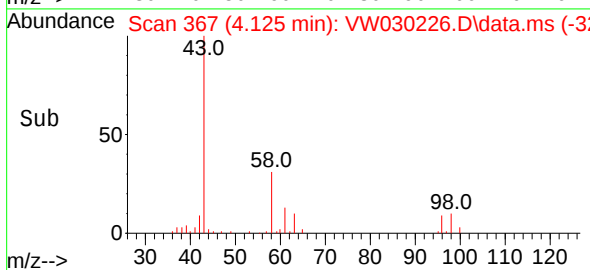
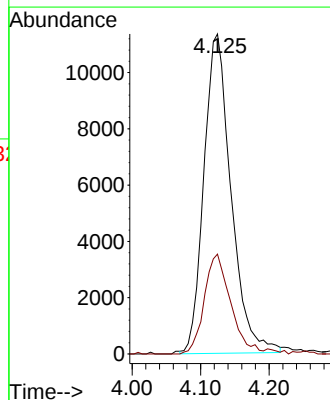
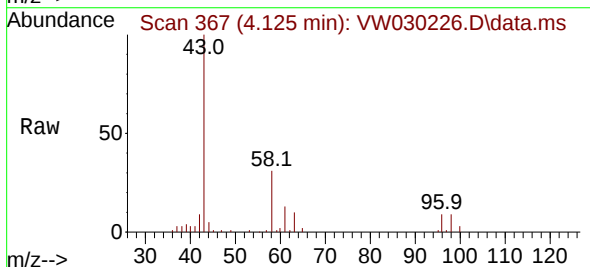
Instrument :
MSVOA_W
ClientSampleId :

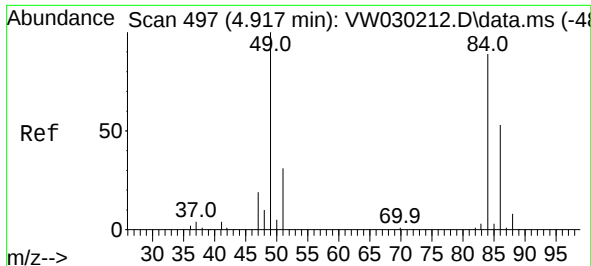
Tgt Ion: 96 Resp: 66732
Ion Ratio Lower Upper
96 100
61 173.1 124.0 230.4
63 123.3 93.3 173.3



#13
Acetone
Concen: 33.807 ug/L
RT: 4.125 min Scan# 367
Delta R.T. -0.012 min
Lab File: VW030226.D
Acq: 24 Sep 2024 16:03

Tgt Ion: 43 Resp: 31296
Ion Ratio Lower Upper
43 100
58 29.5 0.0 65.0

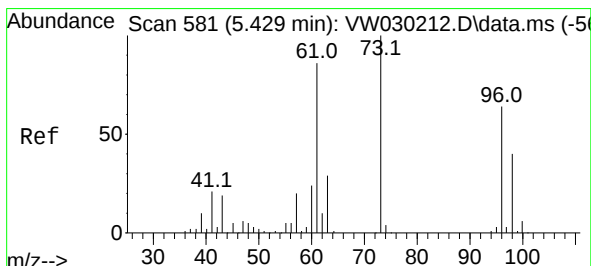
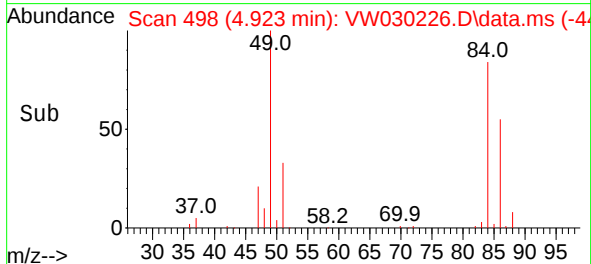
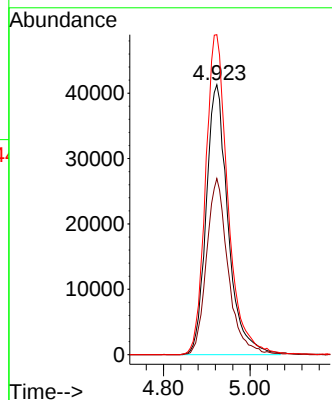
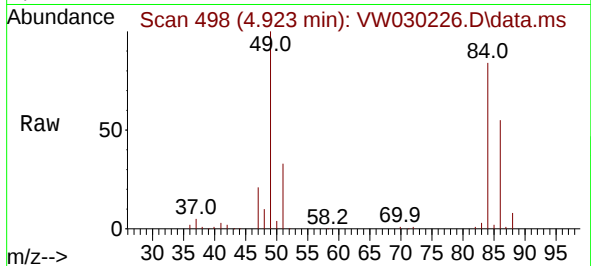




#16
Methylene chloride
Concen: 38.090 ug/L
RT: 4.923 min Scan# 497
Delta R.T. 0.006 min
Lab File: VW030226.D
Acq: 24 Sep 2024 16:03

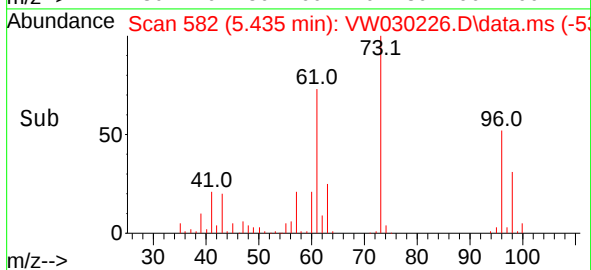
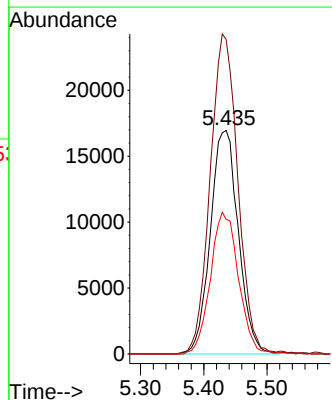
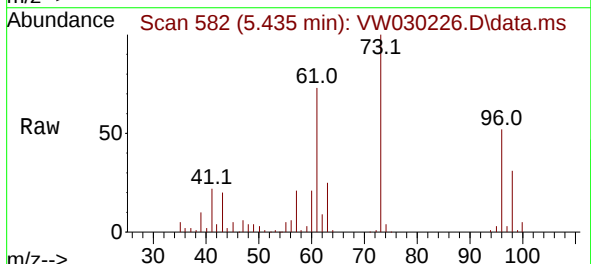
Instrument :
MSVOA_W
ClientSampleId :

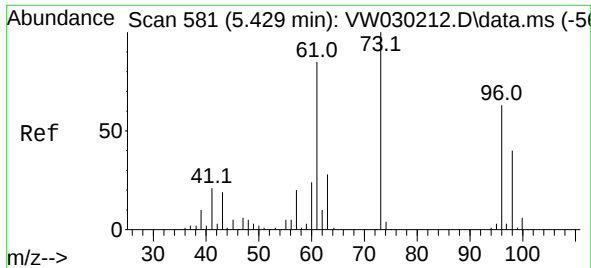
Tgt Ion: 84 Resp: 144926
Ion Ratio Lower Upper
84 100
86 65.3 44.6 82.8
49 118.5 83.8 155.6



#17
trans-1,2-Dichloroethene
Concen: 15.345 ug/L
RT: 5.435 min Scan# 582
Delta R.T. 0.006 min
Lab File: VW030226.D
Acq: 24 Sep 2024 16:03

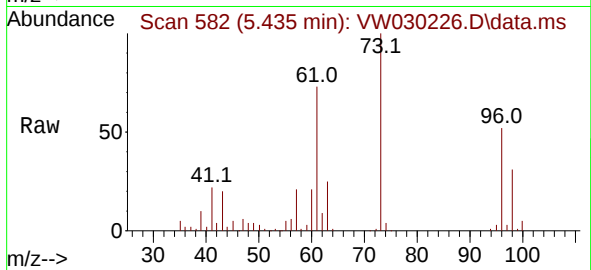
Tgt Ion: 96 Resp: 52102
Ion Ratio Lower Upper
96 100
61 140.7 100.8 187.2
98 60.2 43.0 80.0



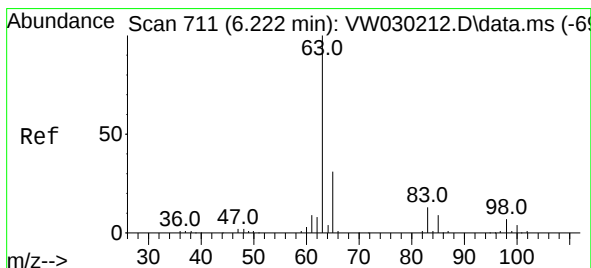
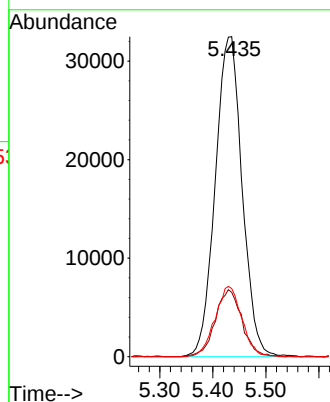
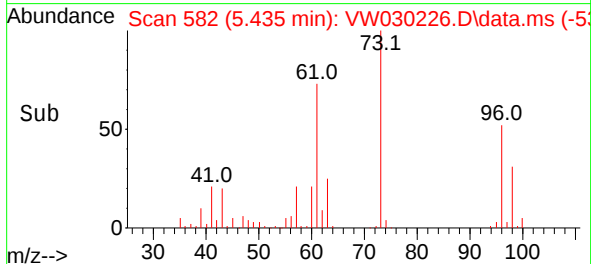


#18
Methyl tert-butyl Ether
Concen: 21.355 ug/L
RT: 5.435 min Scan# 581
Delta R.T. 0.006 min
Lab File: VW030226.D
Acq: 24 Sep 2024 16:03

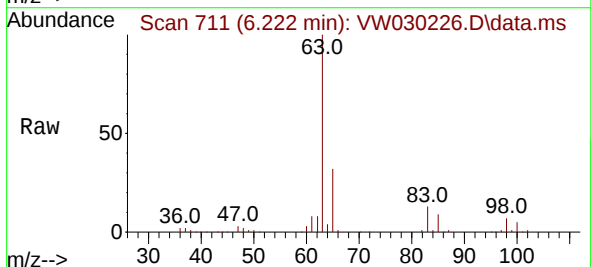
Instrument :
MSVOA_W
ClientSampleId :



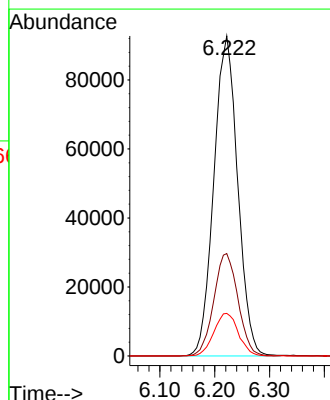
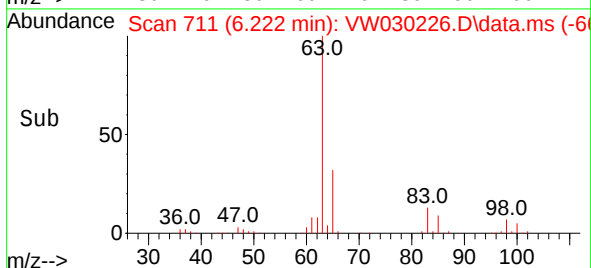
Tgt Ion: 73 Resp: 114277
Ion Ratio Lower Upper
73 100
43 20.9 15.7 23.5
57 21.8 18.8 28.2

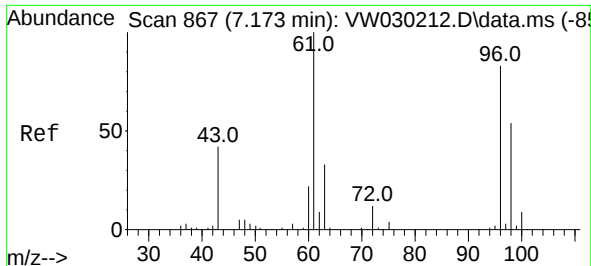


#19
1,1-Dichloroethane
Concen: 40.596 ug/L
RT: 6.222 min Scan# 711
Delta R.T. 0.000 min
Lab File: VW030226.D
Acq: 24 Sep 2024 16:03



Tgt Ion: 63 Resp: 279898
Ion Ratio Lower Upper
63 100
65 32.0 21.6 40.0
83 13.3 9.0 16.8





#22

2-Butanone

Concen: 105.617 ug/L

RT: 7.167 min Scan# 866

Delta R.T. -0.006 min

Lab File: VW030226.D

Acq: 24 Sep 2024 16:03

Instrument :

MSVOA_W

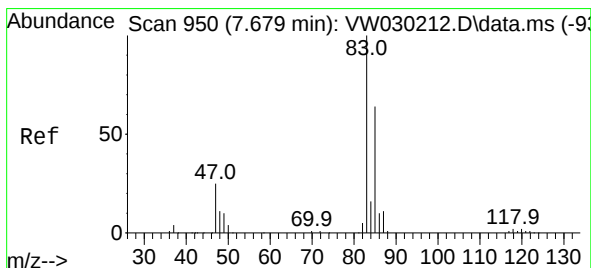
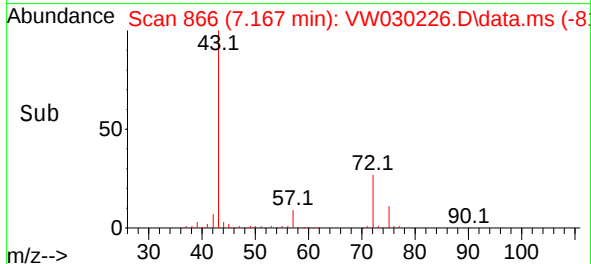
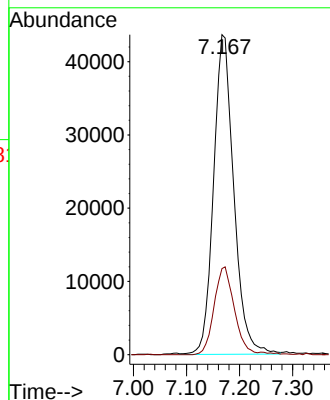
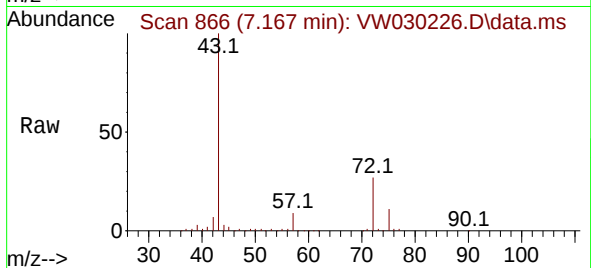
ClientSampleId :

Tgt Ion: 43 Resp: 115735

Ion Ratio Lower Upper

43 100

72 27.2 13.9 41.7



#25

Chloroform

Concen: 41.772 ug/L

RT: 7.679 min Scan# 950

Delta R.T. 0.000 min

Lab File: VW030226.D

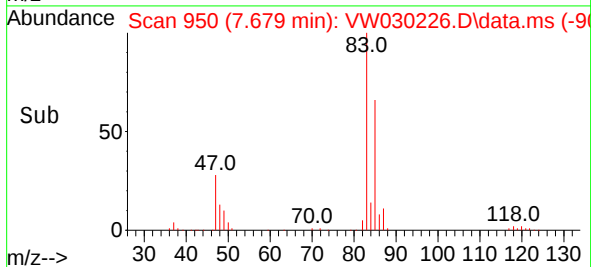
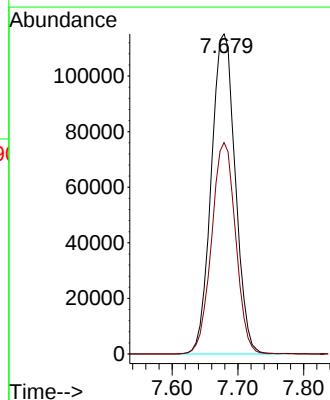
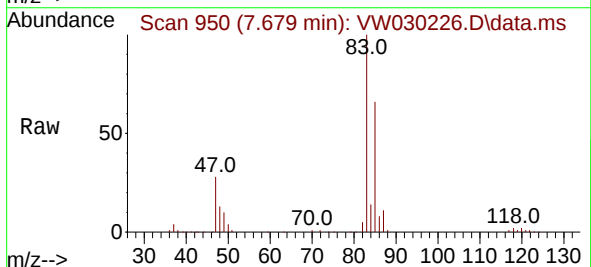
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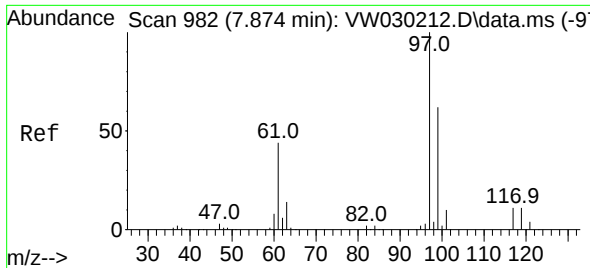
Tgt Ion: 83 Resp: 292519

Ion Ratio Lower Upper

83 100

85 66.0 46.1 85.5

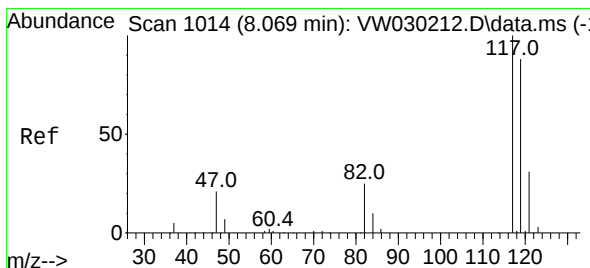
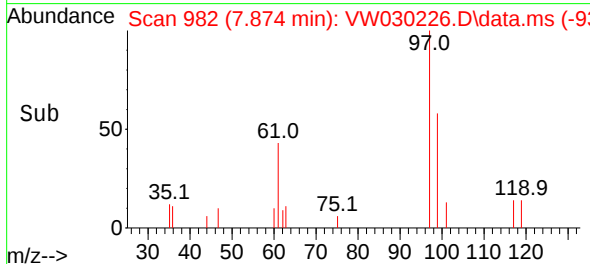
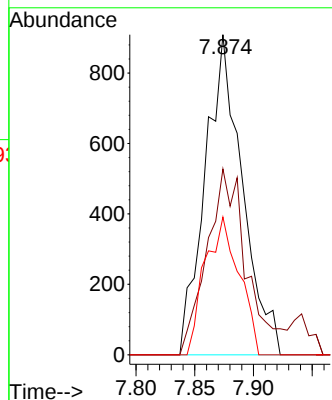
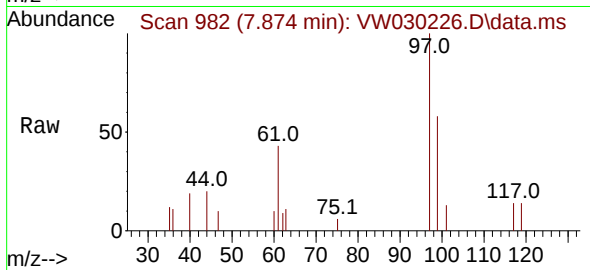




#30
 1,1,1-Trichloroethane
 Concen: 0.347 ug/L
 RT: 7.874 min Scan# 91
 Delta R.T. 0.000 min
 Lab File: VW030226.D
 Acq: 24 Sep 2024 16:03

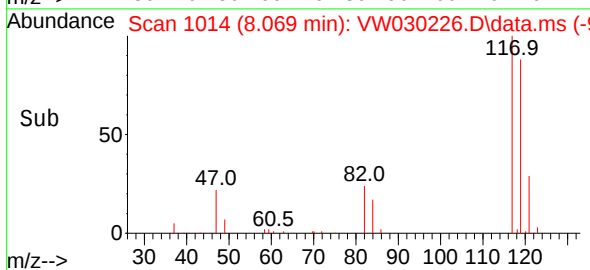
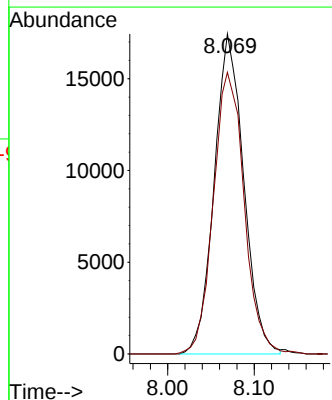
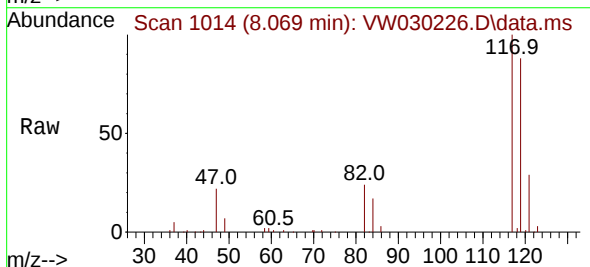
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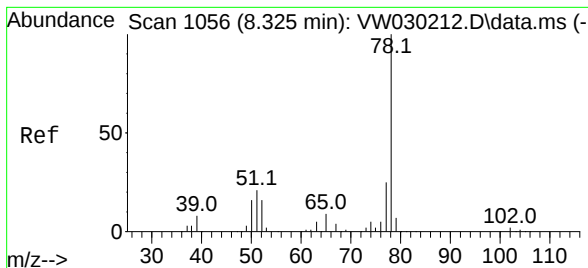
Tgt Ion: 97	Resp:	2002
Ion	Ratio	Lower Upper
97	100	
99	62.9	51.3 76.9
61	39.5	36.4 54.6



#31
 Carbon tetrachloride
 Concen: 7.870 ug/L
 RT: 8.069 min Scan# 1014
 Delta R.T. 0.000 min
 Lab File: VW030226.D
 Acq: 24 Sep 2024 16:03

Tgt Ion: 117	Resp:	41299
Ion	Ratio	Lower Upper
117	100	
119	92.0	76.2 114.4





#33

Benzene

Concen: 31.689 ug/L

RT: 8.325 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VW030226.D

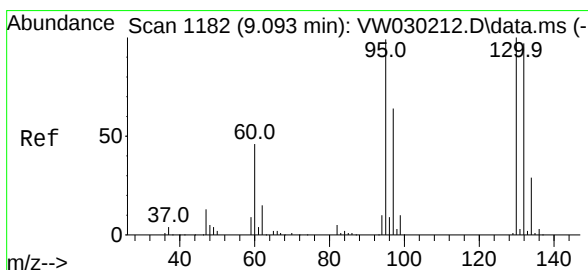
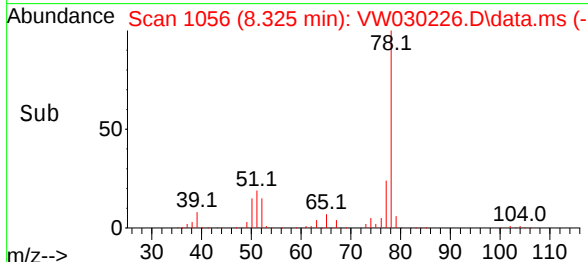
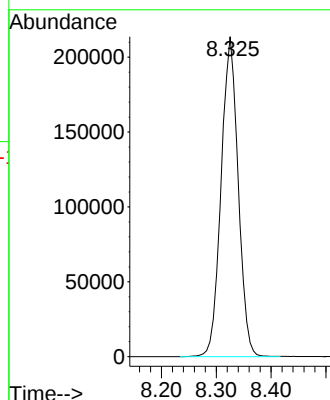
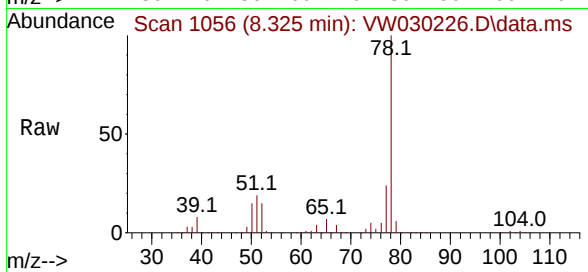
Acq: 24 Sep 2024 16:03

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 78 Resp: 462582



#34

Trichloroethene

Concen: 45.907 ug/L

RT: 9.093 min Scan# 1182

Delta R.T. 0.000 min

Lab File: VW030226.D

Acq: 24 Sep 2024 16:03

Tgt Ion: 95 Resp: 180898

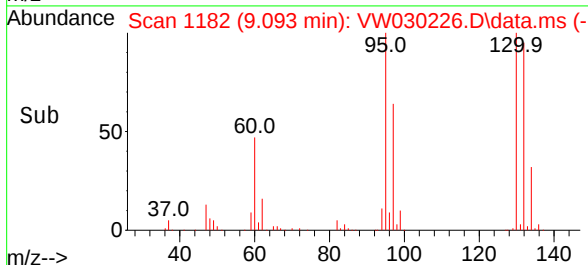
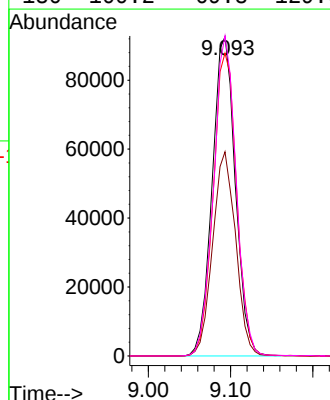
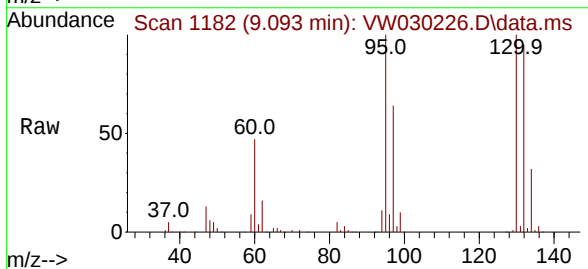
Ion Ratio Lower Upper

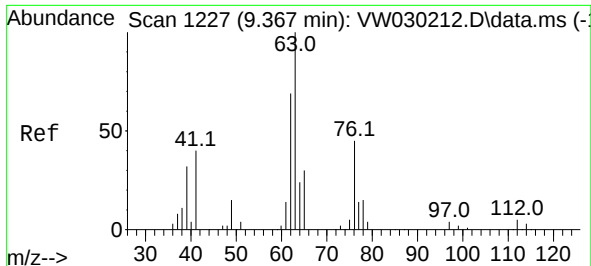
95 100

97 63.9 45.2 84.0

132 94.9 64.8 120.3

130 100.2 69.8 129.6





#37

1,2-Dichloropropane

Concen: 16.525 ug/L

RT: 9.368 min Scan# 1227

Delta R.T. 0.000 min

Lab File: VW030226.D

Acq: 24 Sep 2024 16:03

Instrument :

MSVOA_W

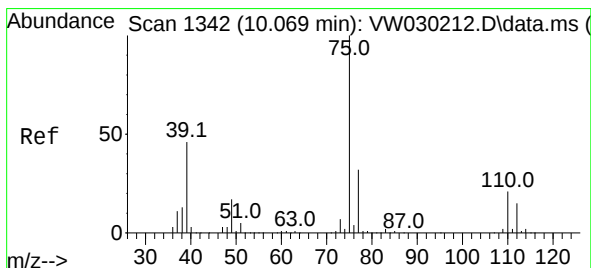
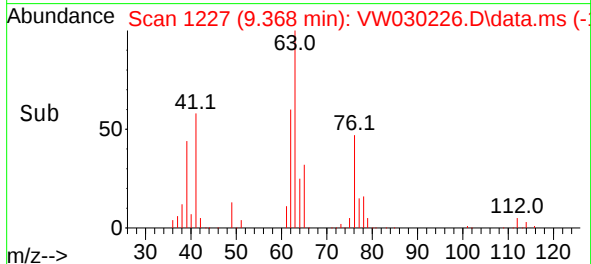
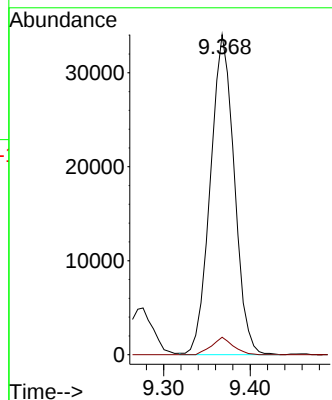
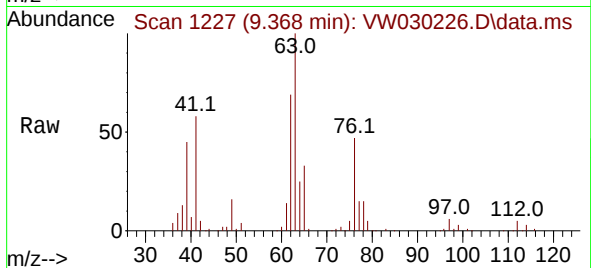
ClientSampleId :

Tgt Ion: 63 Resp: 65381

Ion Ratio Lower Upper

63 100

112 4.8 3.5 5.3



#39

cis-1,3-Dichloropropene

Concen: 29.122 ug/L

RT: 10.069 min Scan# 1342

Delta R.T. 0.000 min

Lab File: VW030226.D

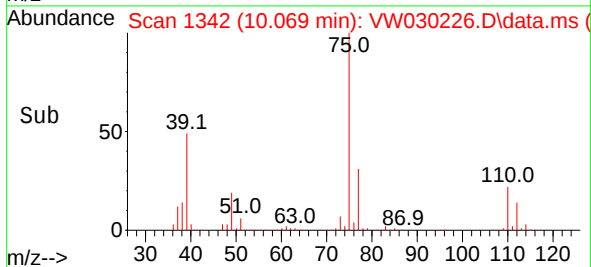
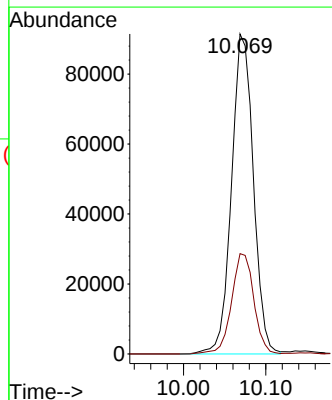
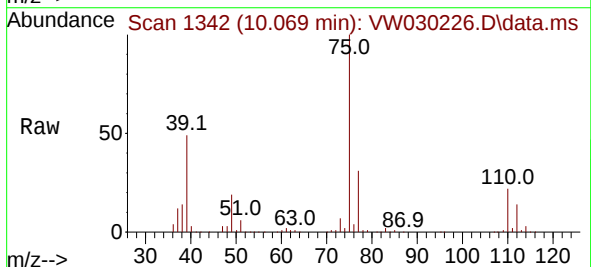
Acq: 24 Sep 2024 16:03

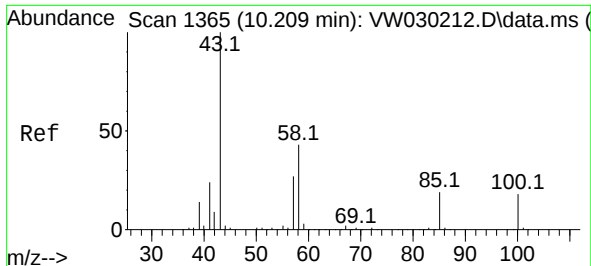
Tgt Ion: 75 Resp: 168559

Ion Ratio Lower Upper

75 100

77 31.4 20.7 38.5





#40

4-Methyl-2-pentanone

Concen: 71.928 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. 0.000 min

Lab File: VW030226.D

Acq: 24 Sep 2024 16:03

Instrument :

MSVOA_W

ClientSampleId :

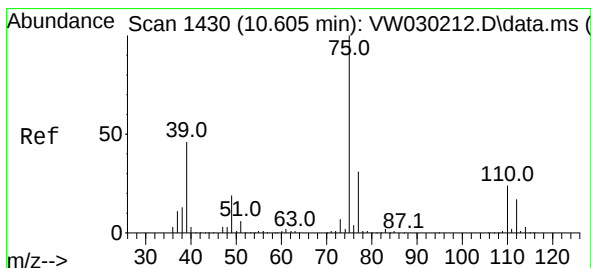
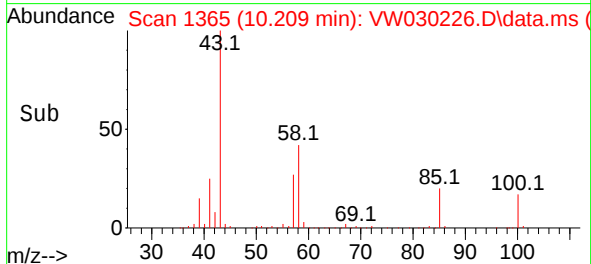
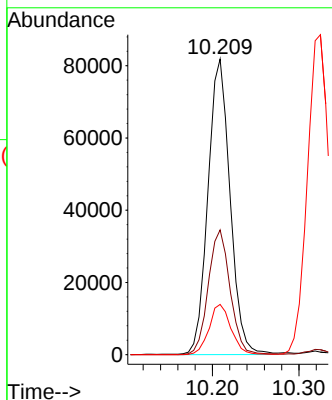
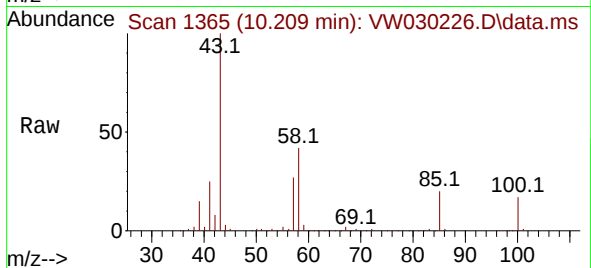
Tgt Ion: 43 Resp: 145415

Ion Ratio Lower Upper

43 100

58 41.7 32.7 49.1

100 16.9 12.7 19.1



#44

trans-1,3-Dichloropropene

Concen: 33.119 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. 0.000 min

Lab File: VW030226.D

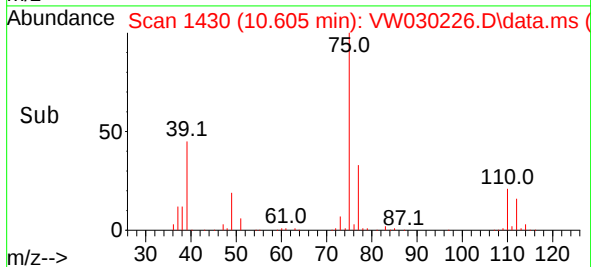
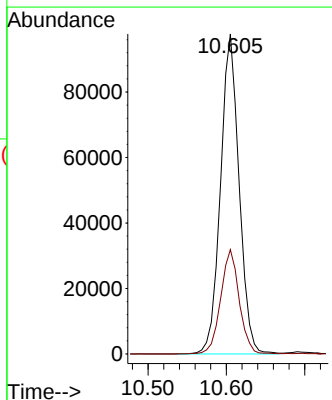
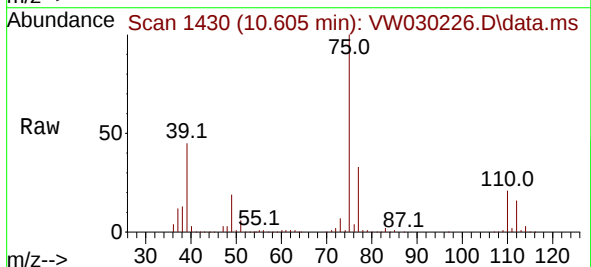
Acq: 24 Sep 2024 16:03

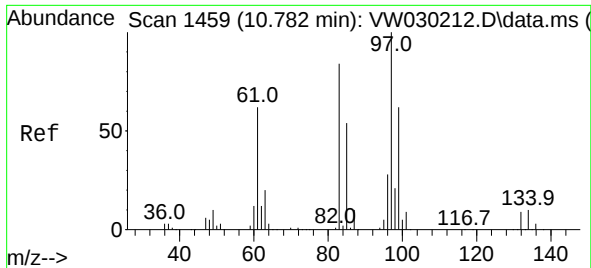
Tgt Ion: 75 Resp: 161258

Ion Ratio Lower Upper

75 100

77 32.6 21.2 39.4





#45

1,1,2-Trichloroethane

Concen: 22.976 ug/L

RT: 10.782 min Scan# 1459

Delta R.T. 0.000 min

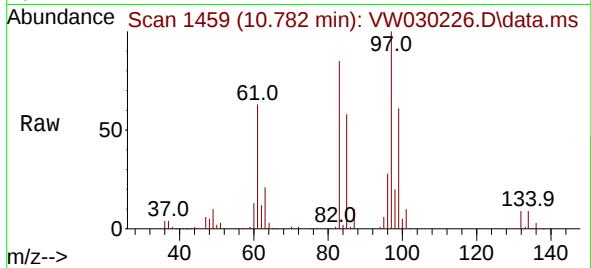
Lab File: VW030226.D

Acq: 24 Sep 2024 16:03

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 97 Resp: 66147

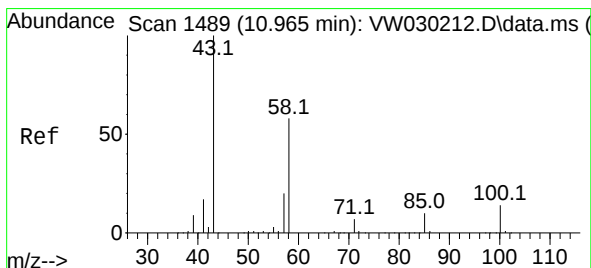
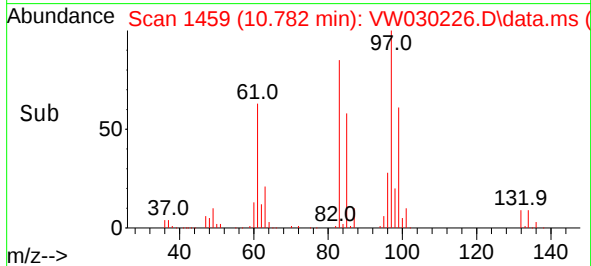
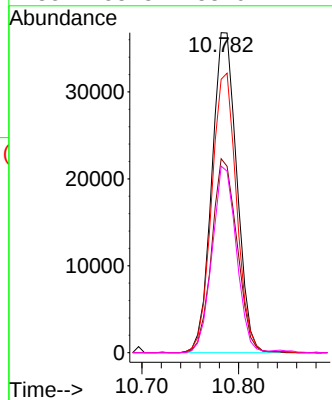
Ion Ratio Lower Upper

97 100

99 60.6 45.6 84.8

83 85.5 64.0 119.0

85 58.3 38.9 72.3



#48

2-Hexanone

Concen: 2.770 ug/L

RT: 10.916 min Scan# 1481

Delta R.T. -0.049 min

Lab File: VW030226.D

Acq: 24 Sep 2024 16:03

Tgt Ion: 43 Resp: 4307

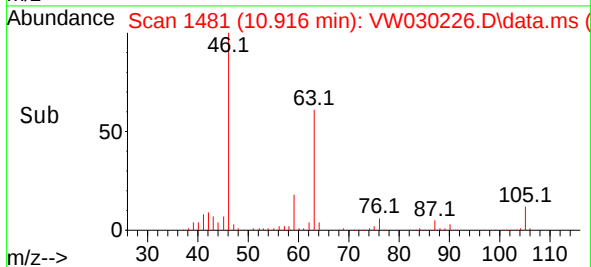
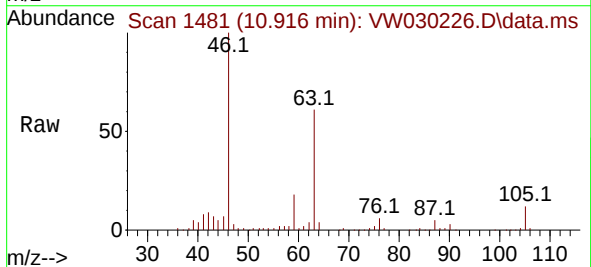
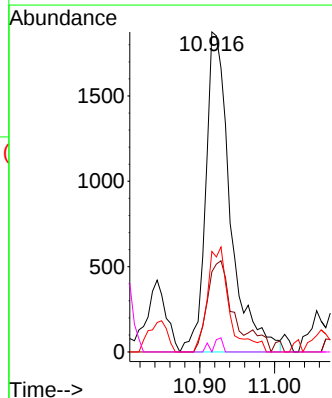
Ion Ratio Lower Upper

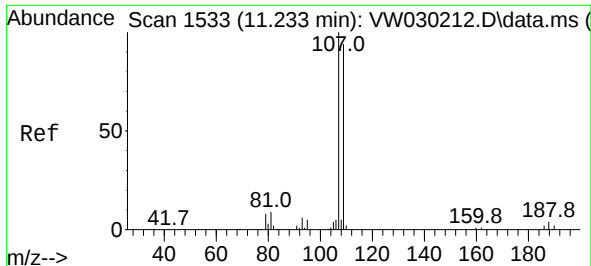
43 100

58 0.0 44.8 67.2#

57 0.0 15.4 23.2#

100 0.4 9.6 14.4#





#50

1,2-Dibromoethane

Concen: 21.791 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. 0.000 min

Lab File: VW030226.D

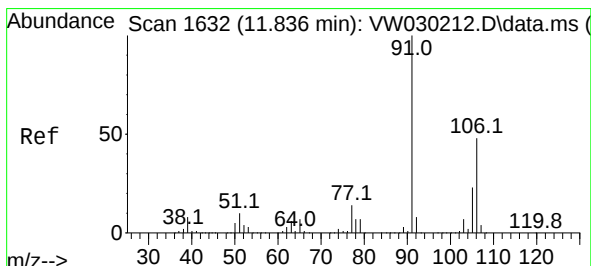
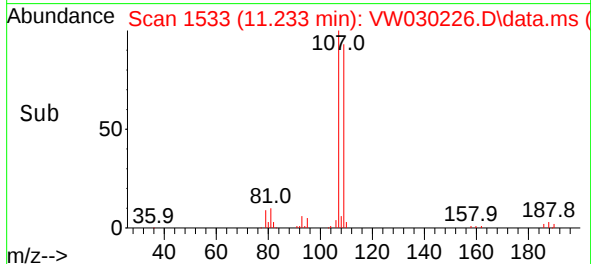
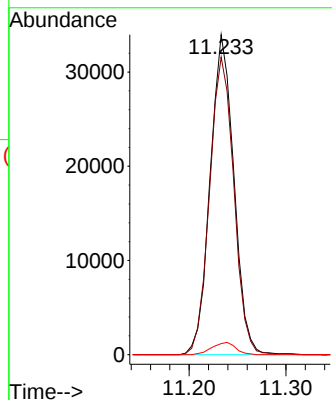
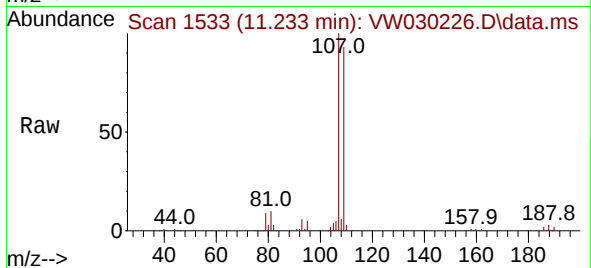
Acq: 24 Sep 2024 16:03

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	107	Resp:	57847
Ion	Ratio	Lower	Upper
107	100		
109	93.0	68.7	127.7
188	3.5	2.6	4.0



#53

m,p-Xylene

Concen: 23.273 ug/L

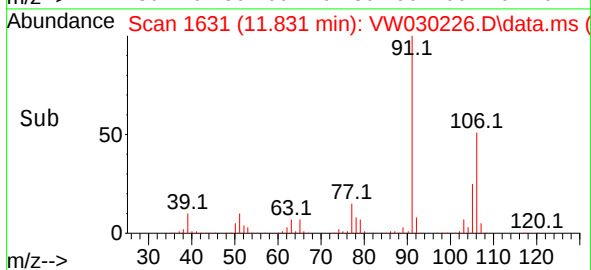
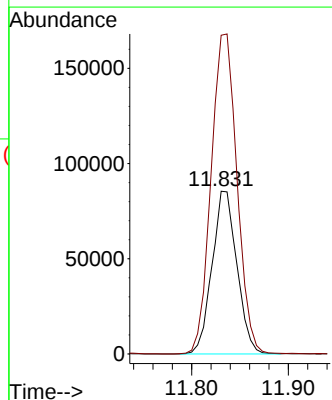
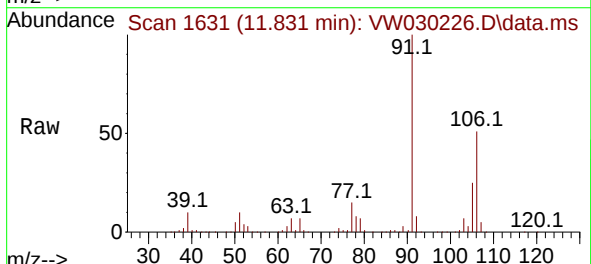
RT: 11.831 min Scan# 1631

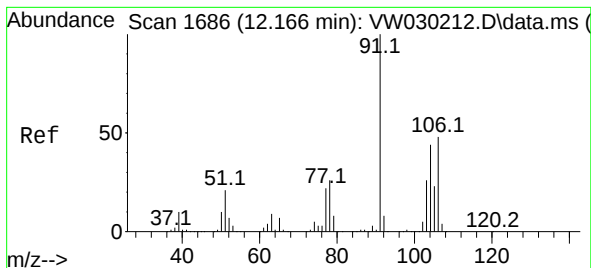
Delta R.T. -0.006 min

Lab File: VW030226.D

Acq: 24 Sep 2024 16:03

Tgt Ion:	106	Resp:	152249
Ion	Ratio	Lower	Upper
106	100		
91	195.8	152.9	283.9





#54

o-Xylene

Concen: 30.540 ug/L

RT: 12.166 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW030226.D

Acq: 24 Sep 2024 16:03

Instrument :

MSVOA_W

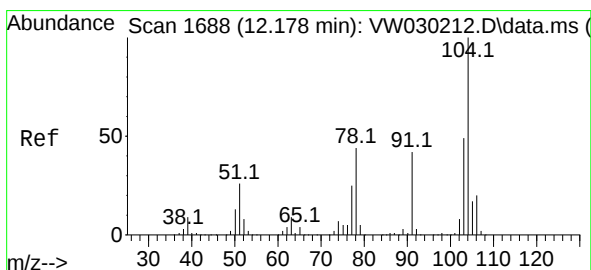
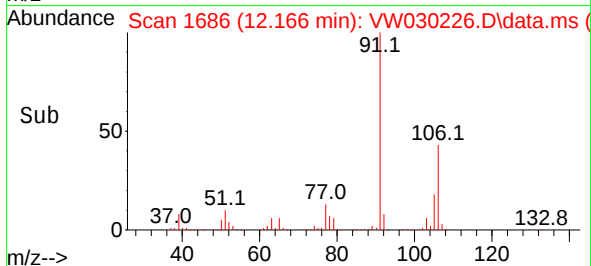
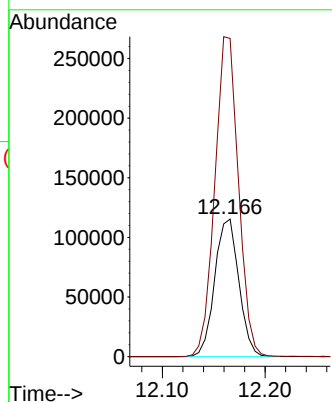
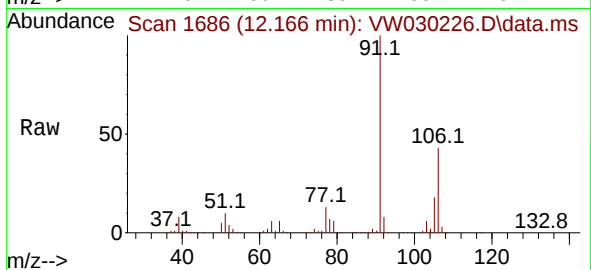
ClientSampleId :

Tgt Ion:106 Resp: 188006

Ion Ratio Lower Upper

106 100

91 231.2 158.1 293.7



#55

Styrene

Concen: 0.937 ug/L

RT: 12.160 min Scan# 1685

Delta R.T. -0.018 min

Lab File: VW030226.D

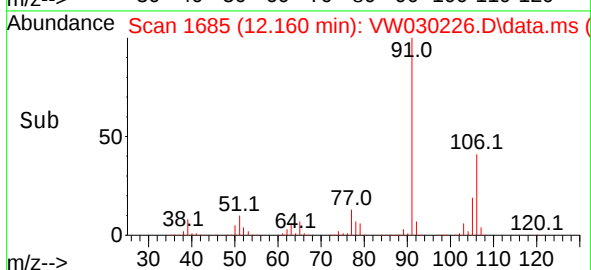
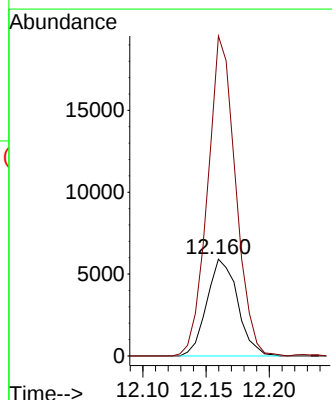
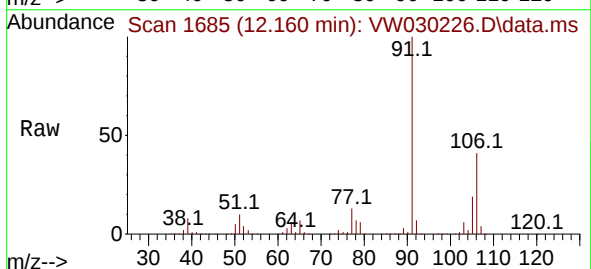
Acq: 24 Sep 2024 16:03

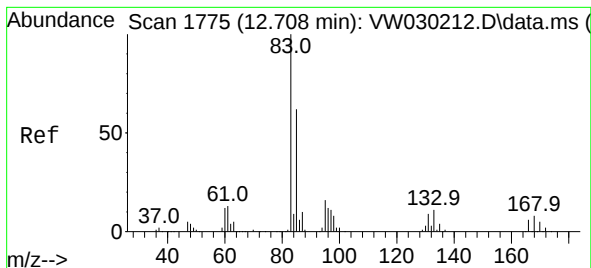
Tgt Ion:104 Resp: 10007

Ion Ratio Lower Upper

104 100

78 330.7 31.4 58.2#

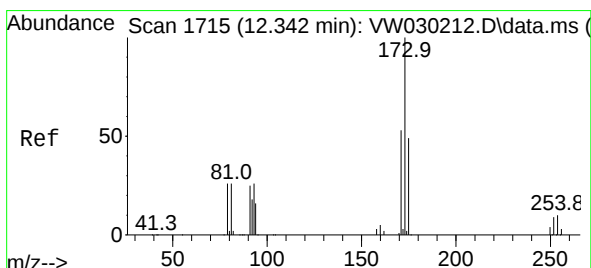
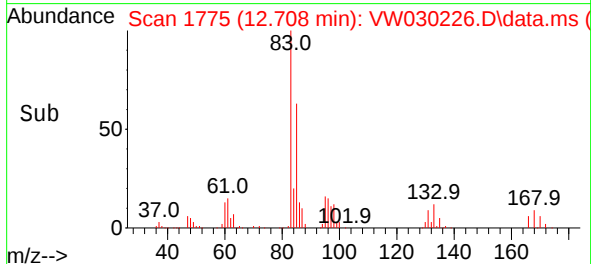
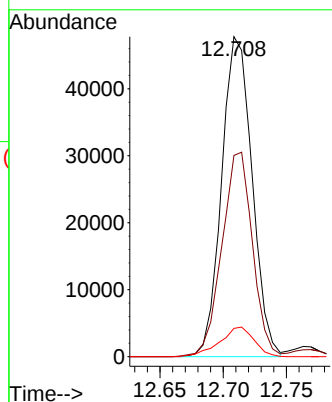
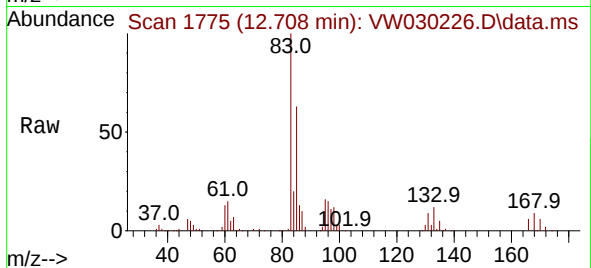




#57
1,1,2,2-Tetrachloroethane
Concen: 23.288 ug/L
RT: 12.708 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VW030226.D
Acq: 24 Sep 2024 16:03

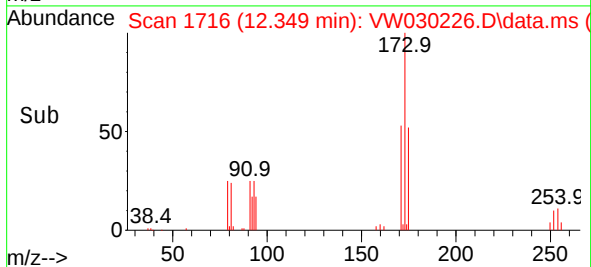
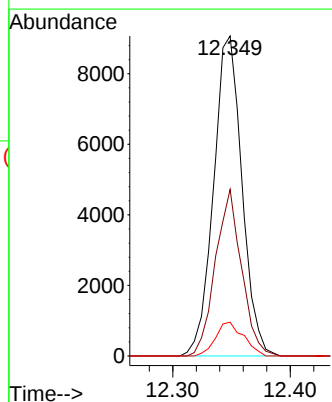
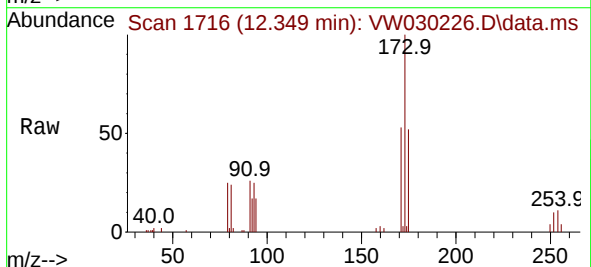
Instrument :
MSVOA_W
ClientSampleId :

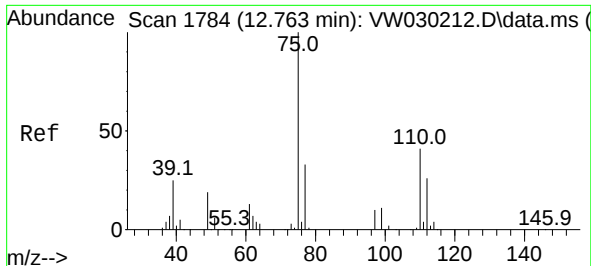
Tgt Ion: 83 Resp: 80027
Ion Ratio Lower Upper
83 100
85 62.9 44.5 82.7
131 8.9 7.4 11.2



#59
Bromoform
Concen: 8.719 ug/L
RT: 12.349 min Scan# 1716
Delta R.T. 0.006 min
Lab File: VW030226.D
Acq: 24 Sep 2024 16:03

Tgt Ion: 173 Resp: 15227
Ion Ratio Lower Upper
173 100
175 48.0 38.6 57.8
254 10.4 7.7 11.5





#61

1,2,3-Trichloropropane

Concen: 38.599 ug/L

RT: 12.763 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW030226.D

Acq: 24 Sep 2024 16:03

Instrument :

MSVOA_W

ClientSampleId :

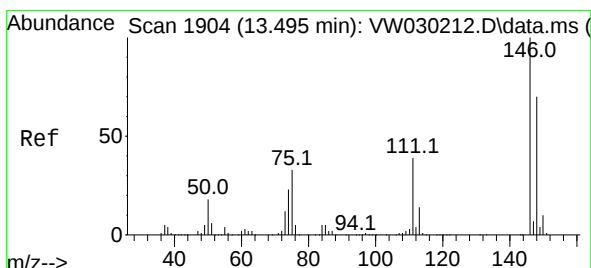
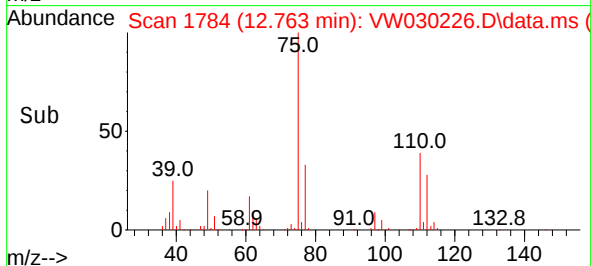
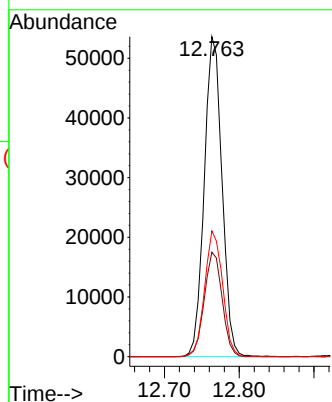
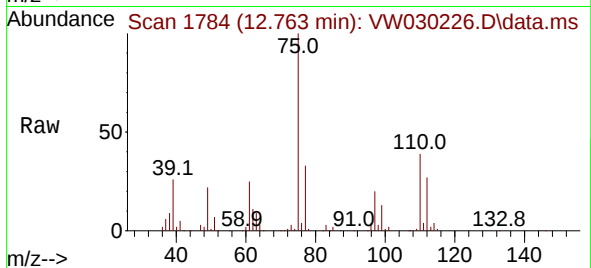
Tgt Ion: 75 Resp: 88610

Ion Ratio Lower Upper

75 100

77 33.0 26.2 39.2

110 39.6 29.7 44.5



#64

1,3-Dichlorobenzene

Concen: 19.519 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VW030226.D

Acq: 24 Sep 2024 16:03

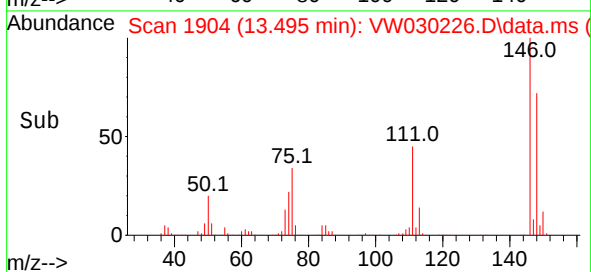
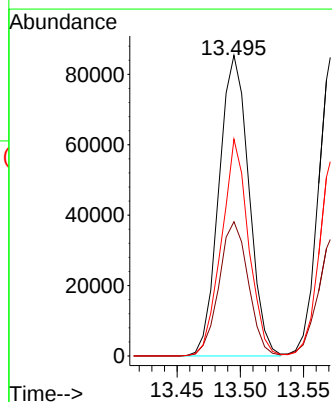
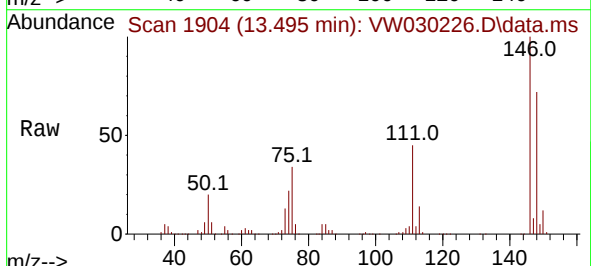
Tgt Ion:146 Resp: 140549

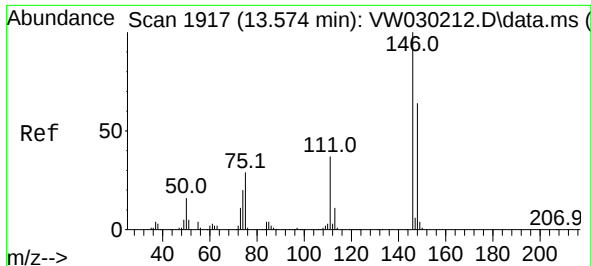
Ion Ratio Lower Upper

146 100

111 44.6 31.9 59.3

148 72.1 47.7 88.5





#65

1,4-Dichlorobenzene

Concen: 20.076 ug/L

RT: 13.574 min Scan# 1917

Delta R.T. 0.000 min

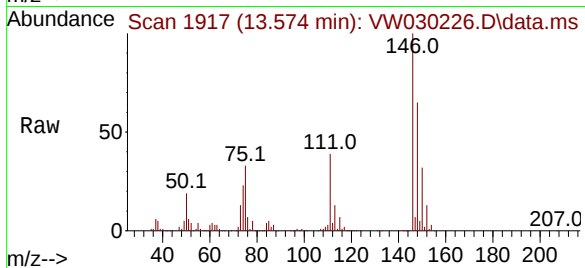
Lab File: VW030226.D

Acq: 24 Sep 2024 16:03

Instrument :

MSVOA_W

ClientSampleId :



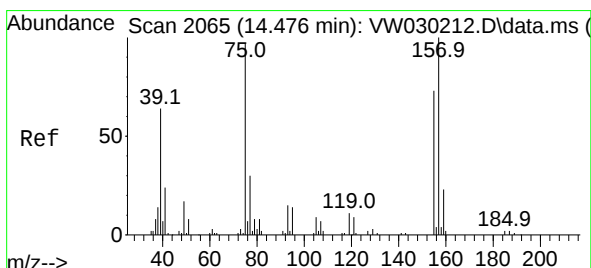
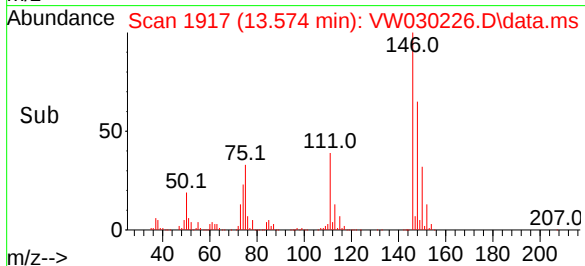
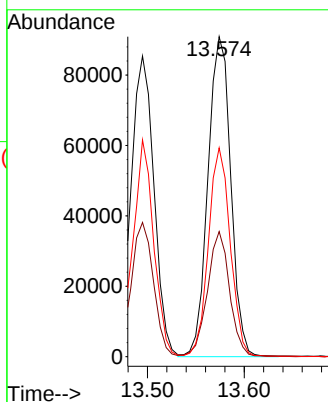
Tgt Ion:146 Resp: 149351

Ion Ratio Lower Upper

146 100

111 39.1 29.5 54.7

148 65.3 44.4 82.5



#68

1,2-Dibromo-3-chloropropane

Concen: 11.457 ug/L

RT: 14.476 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VW030226.D

Acq: 24 Sep 2024 16:03

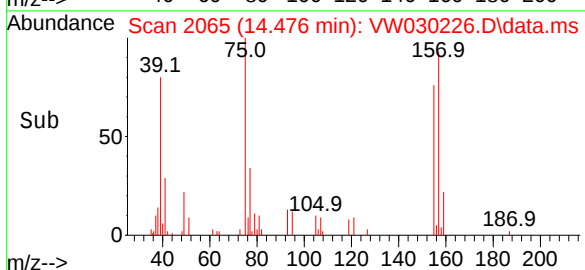
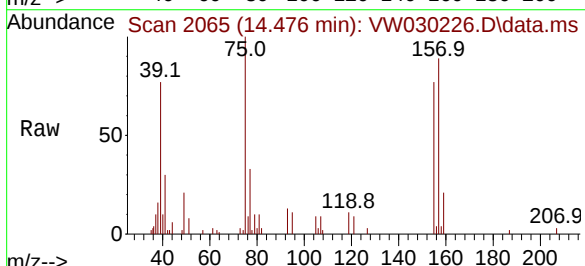
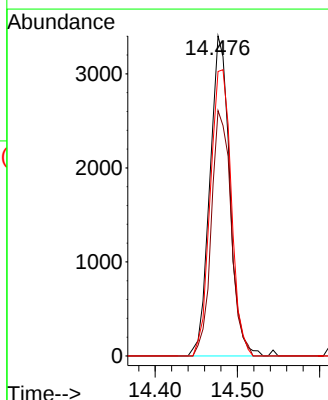
Tgt Ion: 75 Resp: 5736

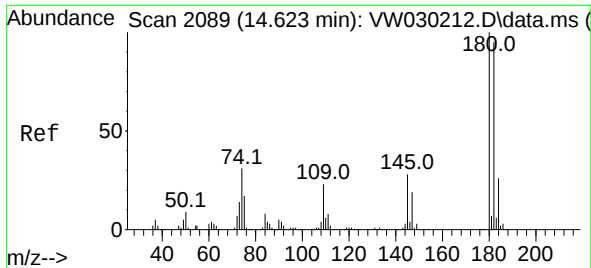
Ion Ratio Lower Upper

75 100

155 76.7 60.5 90.7

157 88.9 66.9 100.3





#69

1,3,5-Trichlorobenzene

Concen: 8.650 ug/L

RT: 15.129 min Scan# 2172

Delta R.T. 0.506 min

Lab File: VW030226.D

Acq: 24 Sep 2024 16:03

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:180 Resp: 43477

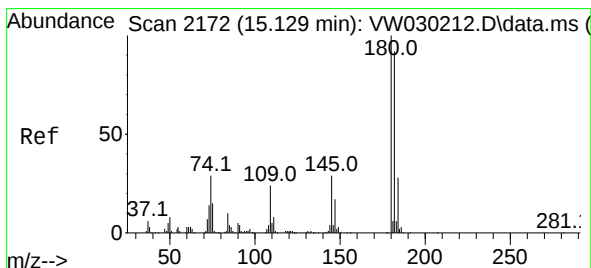
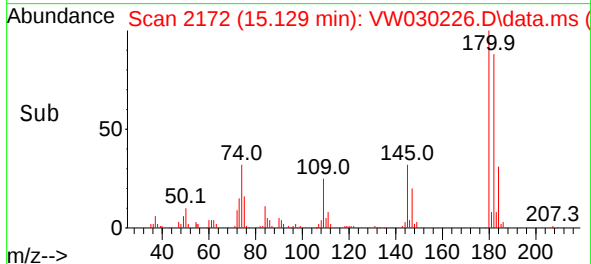
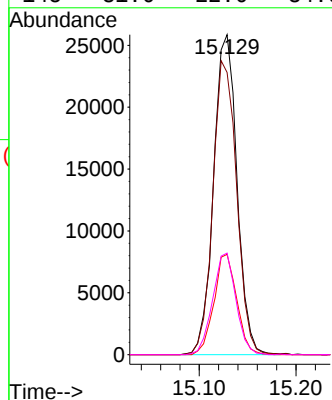
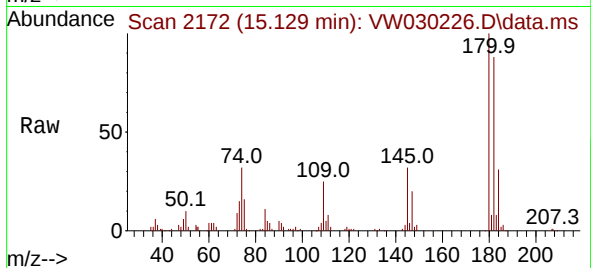
Ion Ratio Lower Upper

180 100

182 93.4 75.5 113.3

184 30.5 23.4 35.0

145 31.6 22.6 34.0



#70

1,2,4-trichlorobenzene

Concen: 10.679 ug/L

RT: 15.129 min Scan# 2172

Delta R.T. 0.000 min

Lab File: VW030226.D

Acq: 24 Sep 2024 16:03

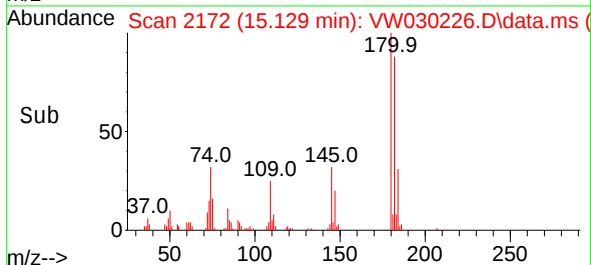
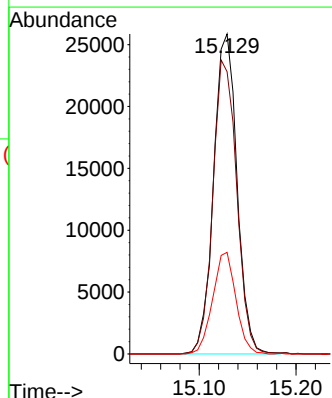
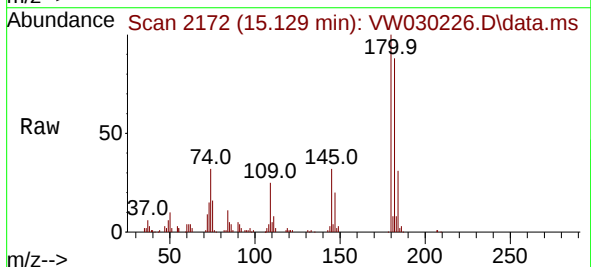
Tgt Ion:180 Resp: 43477

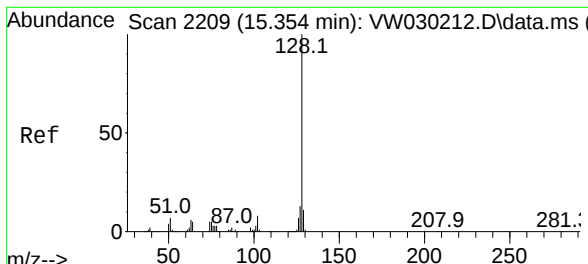
Ion Ratio Lower Upper

180 100

182 93.4 73.4 110.2

145 31.6 24.0 36.0





#71
 Naphthalene
 Concen: 40.821 ug/L
 RT: 15.360 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VW030226.D
 Acq: 24 Sep 2024 16:03

Instrument :
 MSVOA_W
 ClientSampleId :

Tgt Ion:128 Resp: 301801

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.1	15.1
129	10.7	8.4	12.6

