

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW101124\
 Data File : VW030548.D
 Acq On : 11 Oct 2024 14:50
 Operator : SY/MD
 Sample : P4360-01
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 14 01:41:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM100924SMA.M
 Quant Title : SFAM01.0
 QLast Update : Mon Oct 14 01:34:28 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	301263	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	264577	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	135666	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	96037	20.281	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	81.120%
7) Chloroethane-d5	2.899	69	77739	21.688	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.760%
11) 1,1-Dichloroethene-d2	4.027	65	40347	20.485	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	81.960%
21) 2-Butanone-d5	7.082	46	40673	47.727	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.460%
24) Chloroform-d	7.648	84	214060	24.846	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	99.400%
26) 1,2-Dichloroethane-d4	8.307	65	101359	22.624	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	90.480%
32) Benzene-d6	8.276	84	339153	22.086	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	88.360%
36) 1,2-Dichloropropane-d6	9.276	67	105073	23.313	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	93.240%
41) Toluene-d8	10.325	98	336669	24.016	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	96.080%
43) trans-1,3-Dichloroprop...	10.575	79	46527	24.653	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	98.600%
47) 2-Hexanone-d5	10.922	63	31902	54.955	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	109.900%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	86542	26.145	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	104.600%
66) 1,2-Dichlorobenzene-d4	13.849	152	99639	21.706	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	86.840%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.045	96	164787	40.770	ug/L	85
13) Acetone	4.119	43	75421	60.451	ug/L	97
16) Methylene chloride	4.923	84	359892	79.020	ug/L	95
17) trans-1,2-Dichloroethene	5.429	96	128969	29.570	ug/L	94
18) Methyl tert-butyl Ether	5.429	73	280377	45.933	ug/L	100
19) 1,1-Dichloroethane	6.222	63	698301	86.145	ug/L	99
22) 2-Butanone	7.167	43	269887	200.681	ug/L	96
25) Chloroform	7.679	83	754096	87.053	ug/L	99
30) 1,1,1-Trichloroethane	7.874	97	4785	0.681	ug/L	96
31) Carbon tetrachloride	8.069	117	101123	16.120	ug/L	97
33) Benzene	8.325	78	1144045	66.447	ug/L	100
34) Trichloroethene	9.093	95	441873	92.249	ug/L	98
37) 1,2-Dichloropropane	9.368	63	164072	38.155	ug/L	100
39) cis-1,3-Dichloropropene	10.075	75	436065	67.230	ug/L	99
40) 4-Methyl-2-pentanone	10.209	43	363823	176.115	ug/L	99
44) trans-1,3-Dichloropropene	10.605	75	419069	76.886	ug/L	98
45) 1,1,2-Trichloroethane	10.788	97	160663	51.696	ug/L	98
50) 1,2-Dibromoethane	11.233	107	140712	48.522	ug/L	98
53) m,p-Xylene	11.831	106	380023	48.396	ug/L	91

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Response via : Initial Calibration

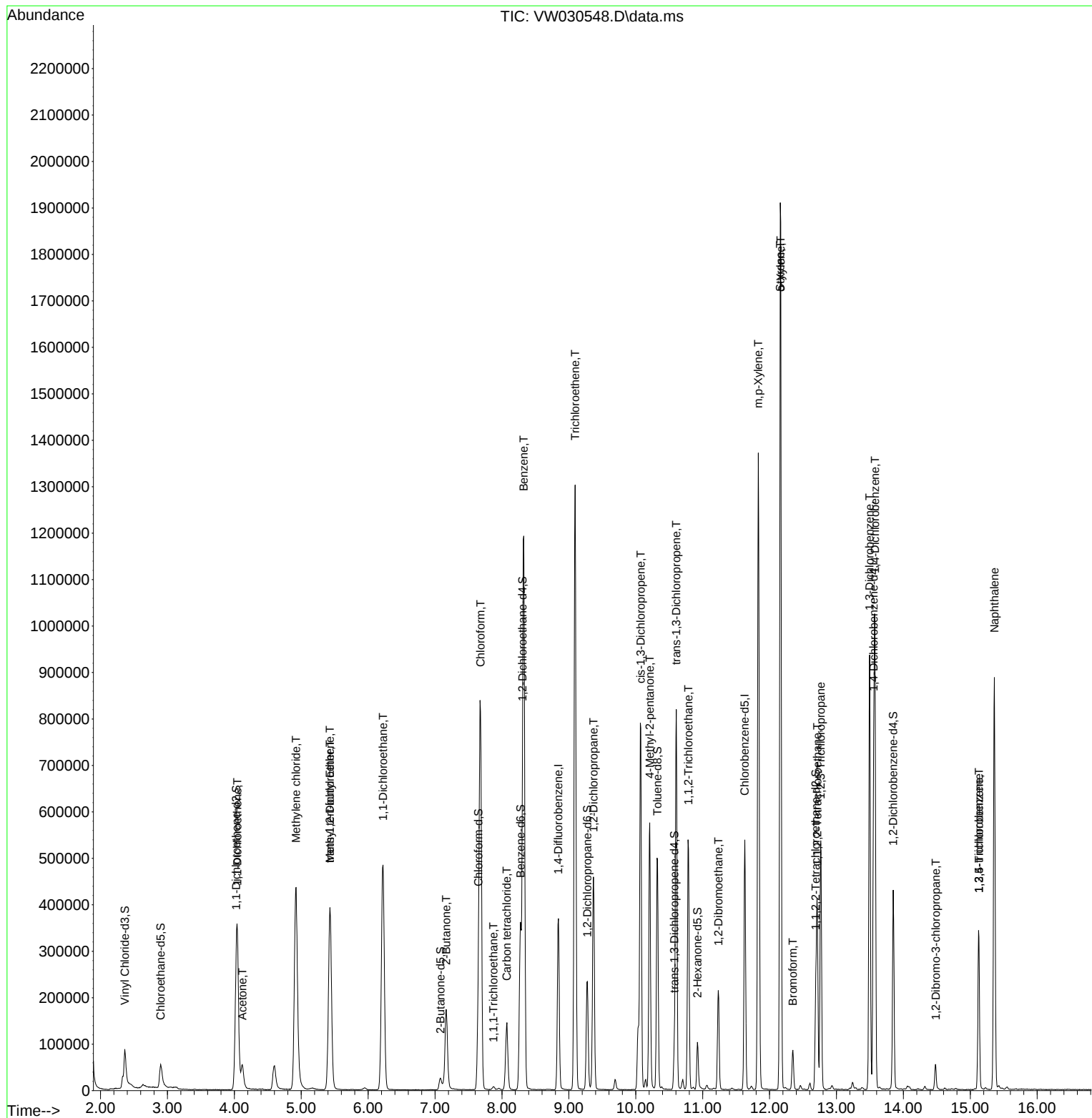
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	12.166	106	487570	67.163	ug/L	98
55) Styrene	12.160	104	26276	2.117	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.715	83	188987	53.924	ug/L	99
59) Bromoform	12.349	173	35942	18.857	ug/L	96
61) 1,2,3-Trichloropropane	12.763	75	211452	80.098	ug/L	99
64) 1,3-Dichlorobenzene	13.495	146	341186	37.309	ug/L	99
65) 1,4-Dichlorobenzene	13.574	146	342836	36.307	ug/L	88
68) 1,2-Dibromo-3-chloropr...	14.483	75	13670	23.223	ug/L	90
69) 1,3,5-Trichlorobenzene	15.129	180	96830	16.057	ug/L	99
70) 1,2,4-trichlorobenzene	15.129	180	96830	19.945	ug/L	96
71) Naphthalene	15.361	128	698853	83.321	ug/L	99

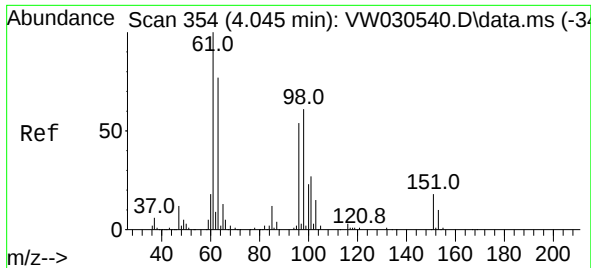
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 40.770 ug/L

RT: 4.045 min Scan# 354

Delta R.T. 0.000 min

Lab File: VW030548.D

Acq: 11 Oct 2024 14:50

Instrument :

MSVOA_W

ClientSampleId :

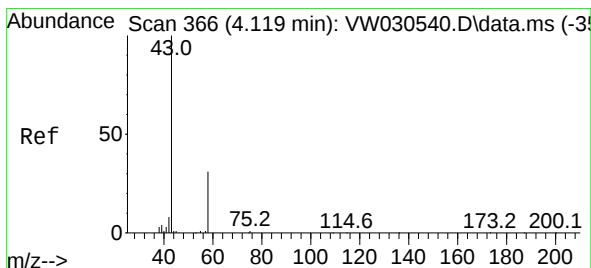
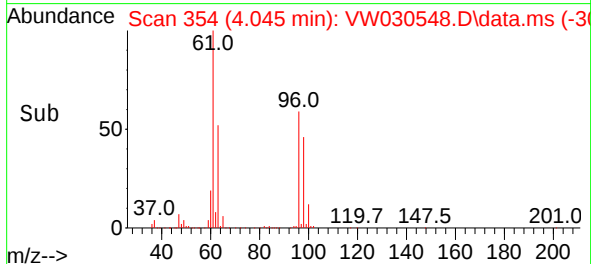
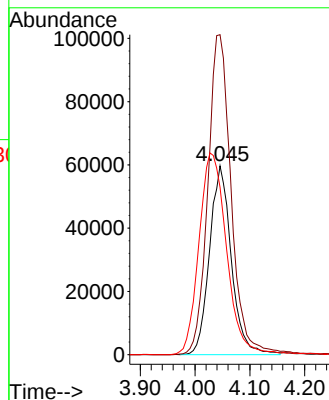
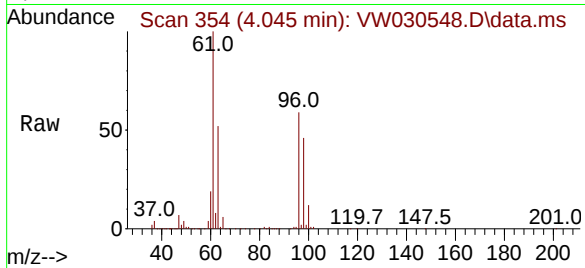
Tgt Ion: 96 Resp: 164787

Ion Ratio Lower Upper

96 100

61 169.4 121.3 225.3

63 88.7 87.6 162.8



#13

Acetone

Concen: 60.451 ug/L

RT: 4.119 min Scan# 366

Delta R.T. 0.000 min

Lab File: VW030548.D

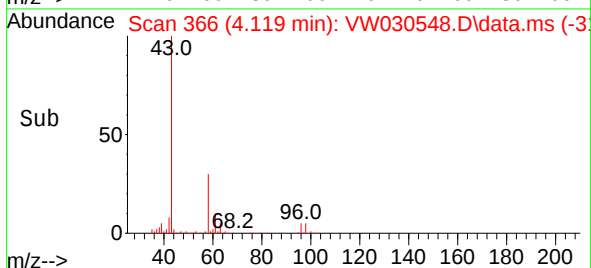
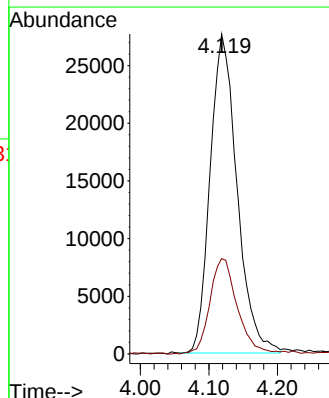
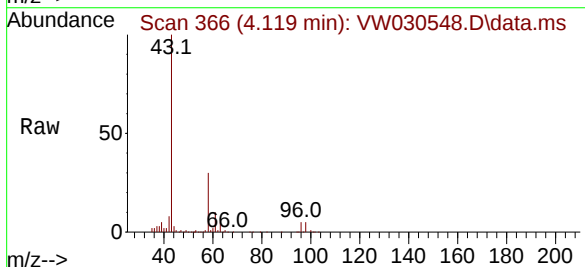
Acq: 11 Oct 2024 14:50

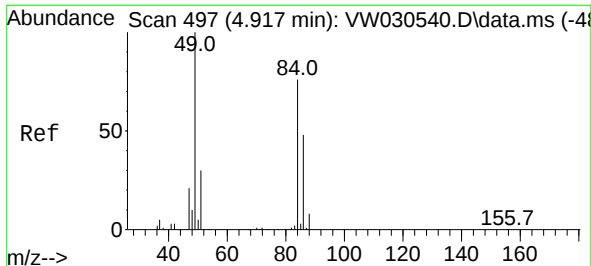
Tgt Ion: 43 Resp: 75421

Ion Ratio Lower Upper

43 100

58 30.4 0.0 57.6





#16

Methylene chloride

Concen: 79.020 ug/L

RT: 4.923 min Scan# 498

Delta R.T. 0.006 min

Lab File: VW030548.D

Acq: 11 Oct 2024 14:50

Instrument :

MSVOA_W

ClientSampleId :

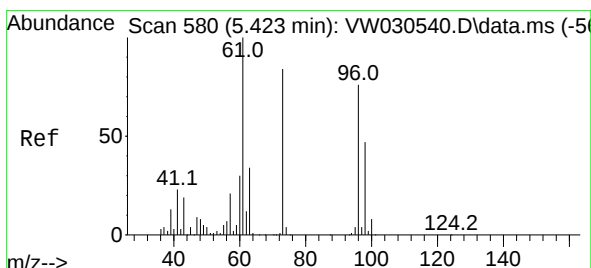
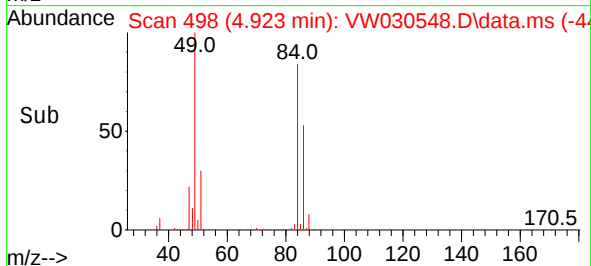
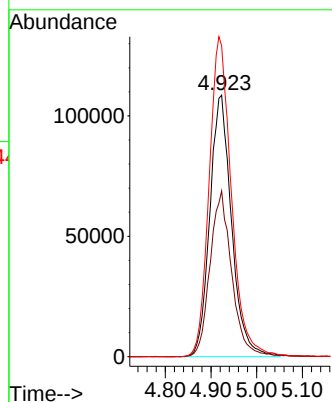
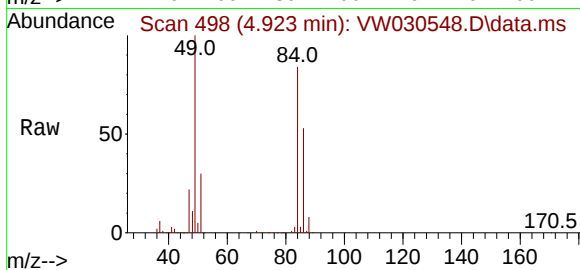
Tgt Ion: 84 Resp: 359892

Ion Ratio Lower Upper

84 100

86 63.4 43.8 81.3

49 118.8 88.3 164.1



#17

trans-1,2-Dichloroethene

Concen: 29.570 ug/L

RT: 5.429 min Scan# 581

Delta R.T. 0.006 min

Lab File: VW030548.D

Acq: 11 Oct 2024 14:50

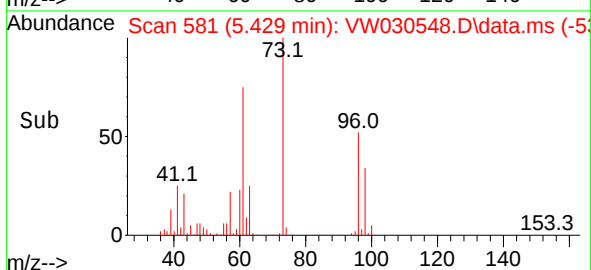
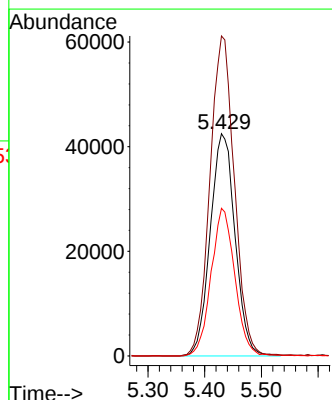
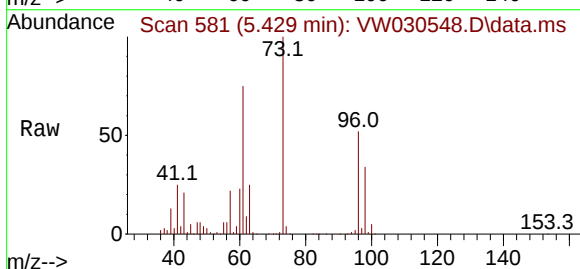
Tgt Ion: 96 Resp: 128969

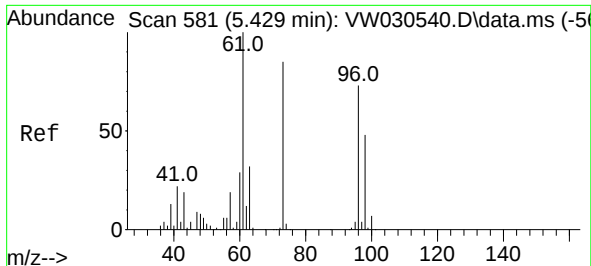
Ion Ratio Lower Upper

96 100

61 144.0 96.9 179.9

98 66.5 42.2 78.4





#18

Methyl tert-butyl Ether

Concen: 45.933 ug/L

RT: 5.429 min Scan# 581

Delta R.T. 0.000 min

Lab File: VW030548.D

Acq: 11 Oct 2024 14:50

Instrument :

MSVOA_W

ClientSampleId :

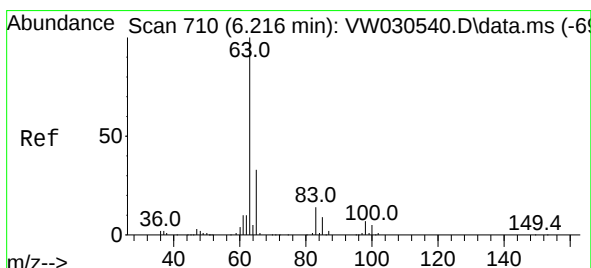
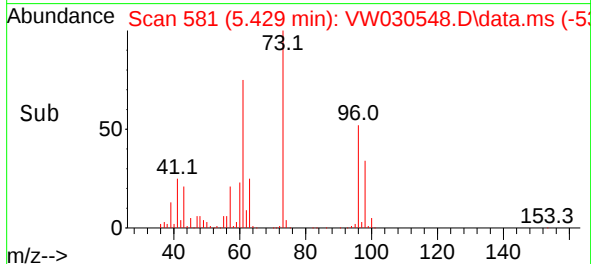
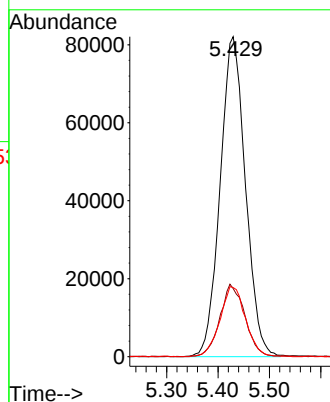
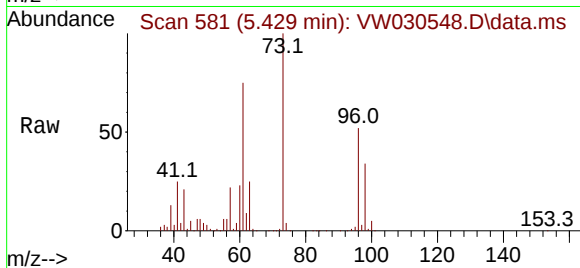
Tgt Ion: 73 Resp: 280377

Ion Ratio Lower Upper

73 100

43 22.5 18.1 27.1

57 22.2 17.7 26.5



#19

1,1-Dichloroethane

Concen: 86.145 ug/L

RT: 6.222 min Scan# 711

Delta R.T. 0.006 min

Lab File: VW030548.D

Acq: 11 Oct 2024 14:50

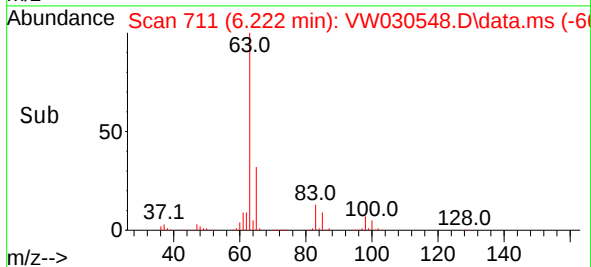
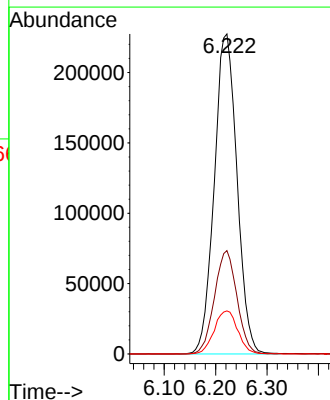
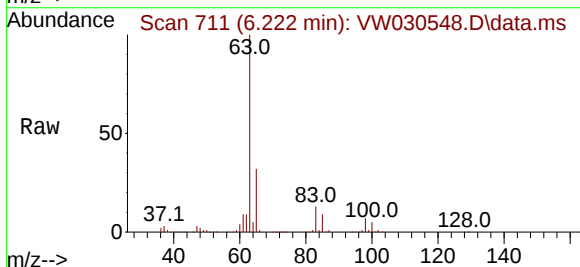
Tgt Ion: 63 Resp: 698301

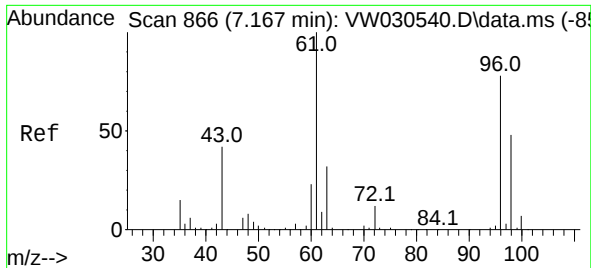
Ion Ratio Lower Upper

63 100

65 32.3 22.5 41.9

83 13.4 9.8 18.2





#22

2-Butanone

Concen: 200.681 ug/L

RT: 7.167 min Scan# 8

Delta R.T. 0.000 min

Lab File: VW030548.D

Acq: 11 Oct 2024 14:50

Instrument :

MSVOA_W

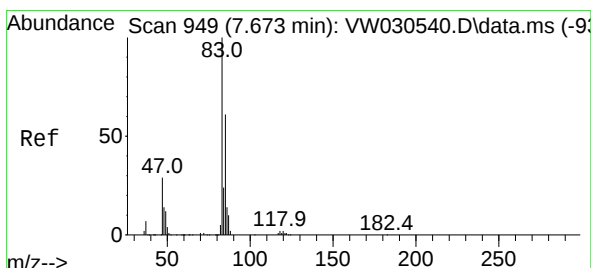
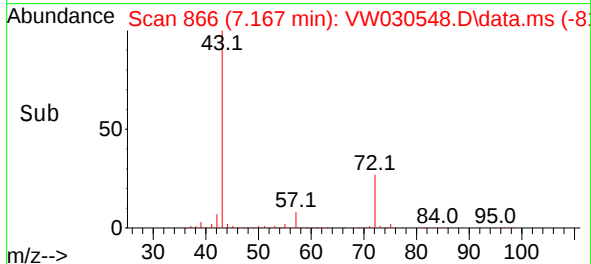
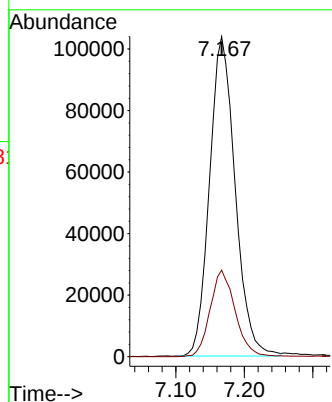
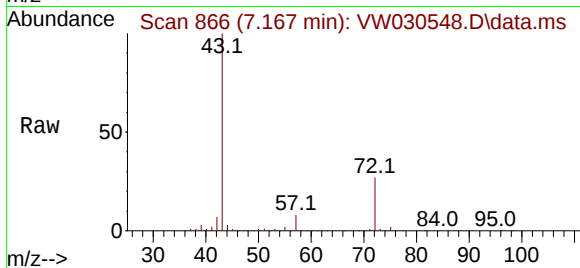
ClientSampleId :

Tgt Ion: 43 Resp: 269887

Ion Ratio Lower Upper

43 100

72 26.4 14.4 43.0



#25

Chloroform

Concen: 87.053 ug/L

RT: 7.679 min Scan# 950

Delta R.T. 0.006 min

Lab File: VW030548.D

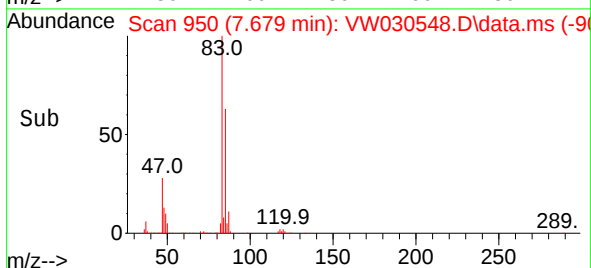
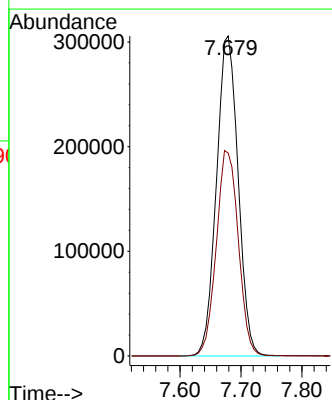
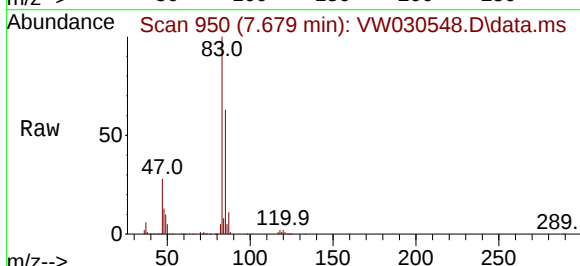
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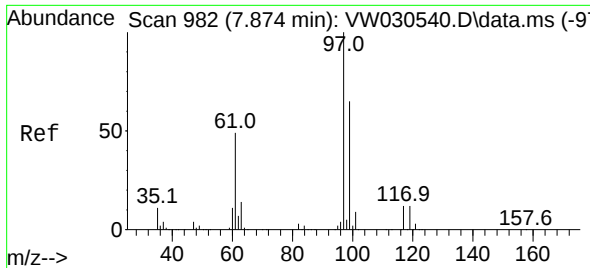
Tgt Ion: 83 Resp: 754096

Ion Ratio Lower Upper

83 100

85 63.4 45.1 83.7

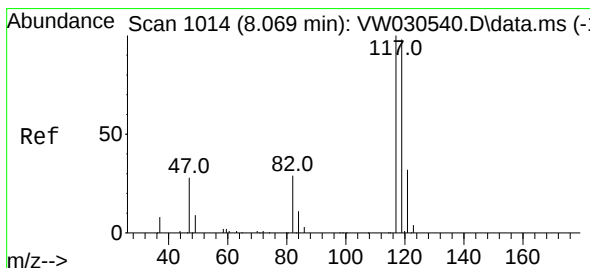
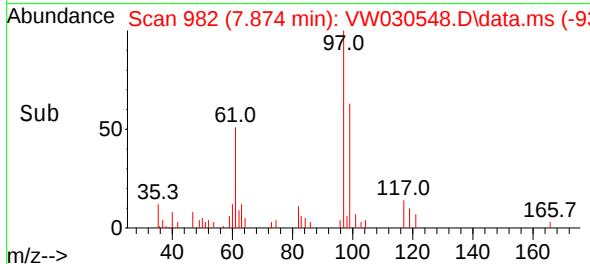
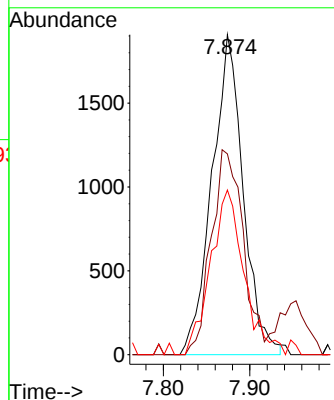
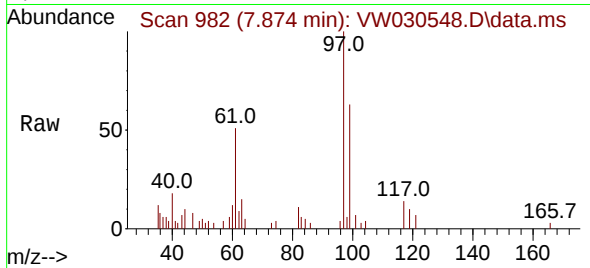




#30
1,1,1-Trichloroethane
Concen: 0.681 ug/L
RT: 7.874 min Scan# 982
Delta R.T. 0.000 min
Lab File: VW030548.D
Acq: 11 Oct 2024 14:50

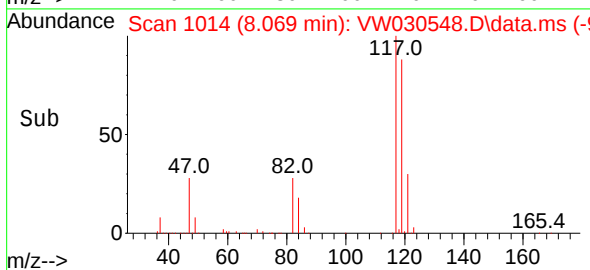
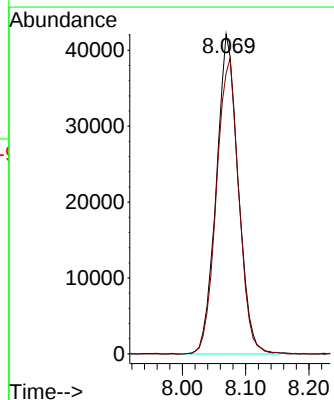
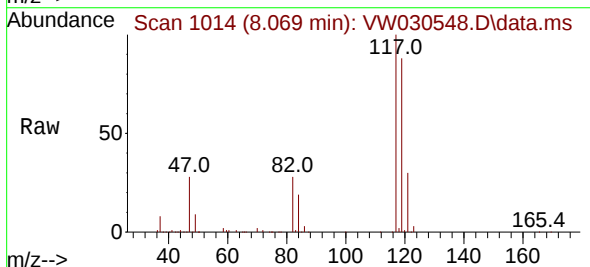
Instrument :
MSVOA_W
ClientSampleId :

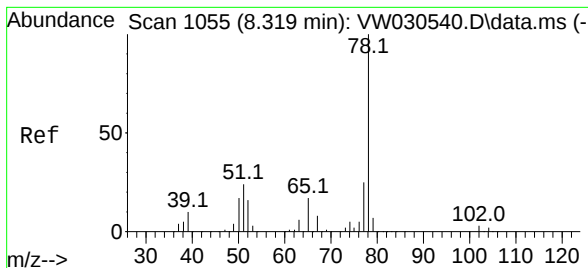
Tgt Ion: 97 Resp: 4785
Ion Ratio Lower Upper
97 100
99 65.3 52.3 78.5
61 53.7 38.5 57.7



#31
Carbon tetrachloride
Concen: 16.120 ug/L
RT: 8.069 min Scan# 1014
Delta R.T. 0.000 min
Lab File: VW030548.D
Acq: 11 Oct 2024 14:50

Tgt Ion: 117 Resp: 101123
Ion Ratio Lower Upper
117 100
119 94.3 77.8 116.8





#33

Benzene

Concen: 66.447 ug/L

RT: 8.325 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VW030548.D

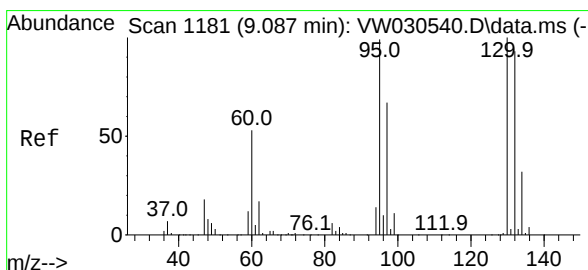
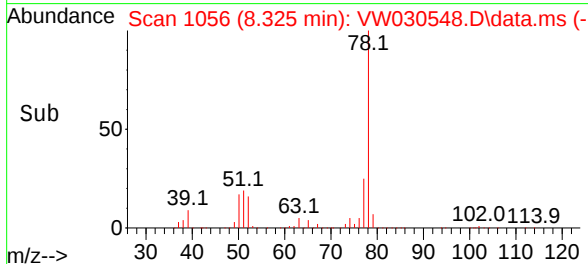
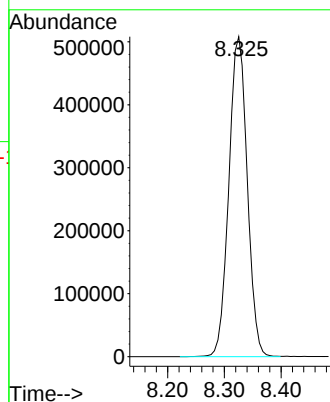
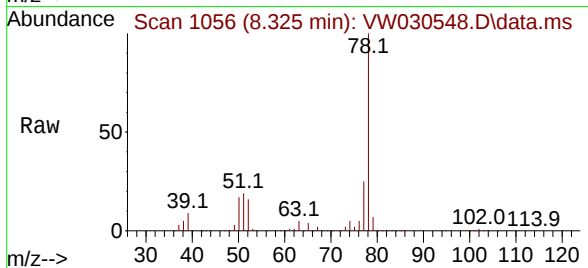
Acq: 11 Oct 2024 14:50

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 78 Resp: 1144045



#34

Trichloroethene

Concen: 92.249 ug/L

RT: 9.093 min Scan# 1182

Delta R.T. 0.006 min

Lab File: VW030548.D

Acq: 11 Oct 2024 14:50

Tgt Ion: 95 Resp: 441873

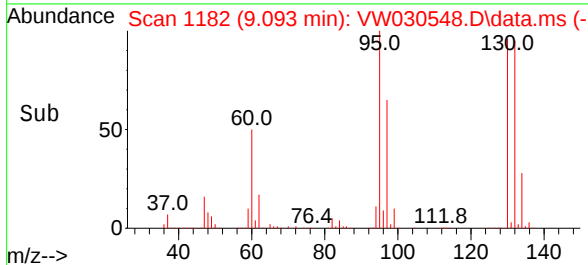
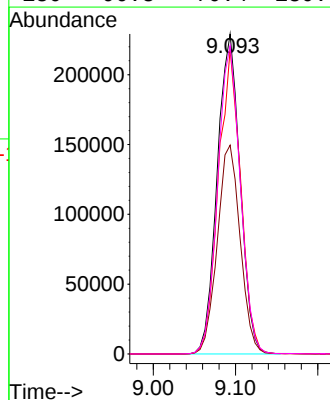
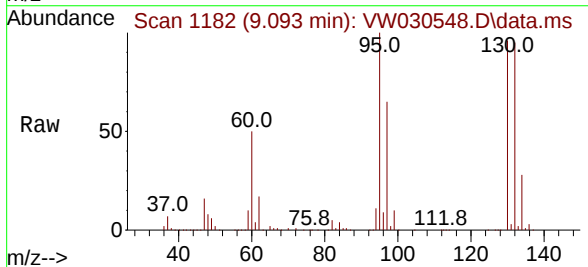
Ion Ratio Lower Upper

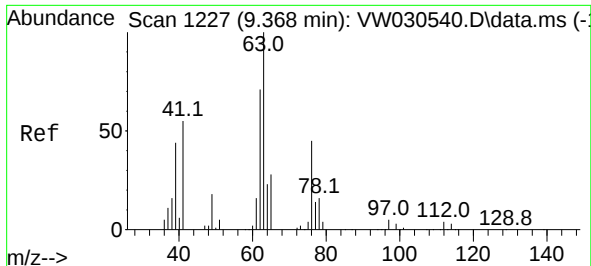
95 100

97 65.3 45.9 85.3

132 95.2 66.4 123.2

130 96.3 70.4 130.8





#37

1,2-Dichloropropane

Concen: 38.155 ug/L

RT: 9.368 min Scan# 11

Delta R.T. 0.000 min

Lab File: VW030548.D

Acq: 11 Oct 2024 14:50

Instrument :

MSVOA_W

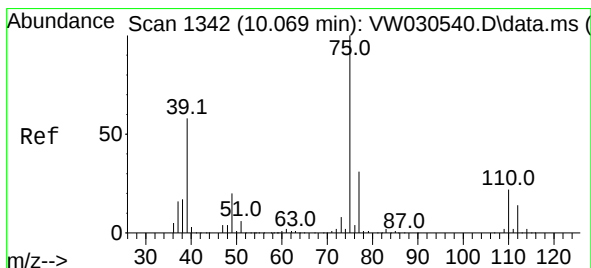
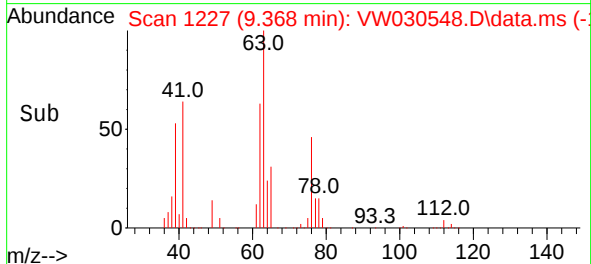
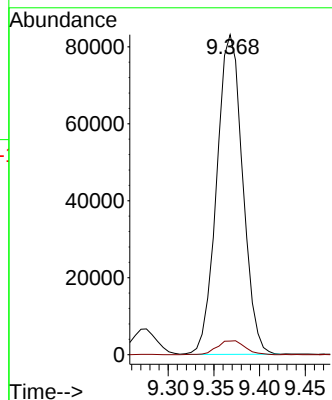
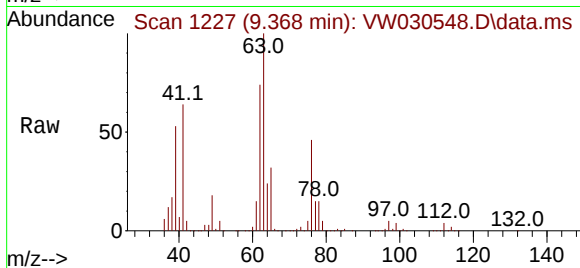
ClientSampleId :

Tgt Ion: 63 Resp: 164072

Ion Ratio Lower Upper

63 100

112 4.7 3.7 5.5



#39

cis-1,3-Dichloropropene

Concen: 67.230 ug/L

RT: 10.075 min Scan# 1343

Delta R.T. 0.006 min

Lab File: VW030548.D

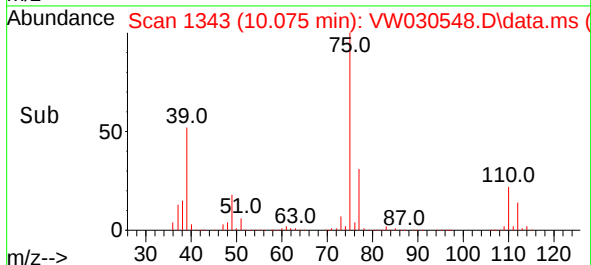
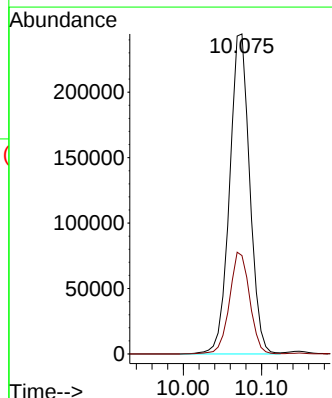
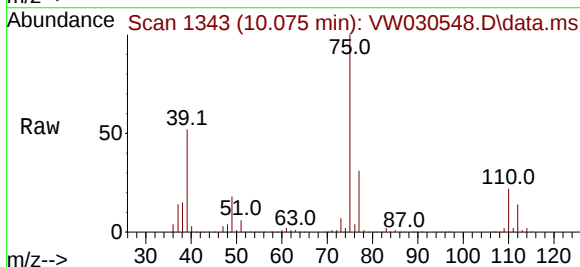
Acq: 11 Oct 2024 14:50

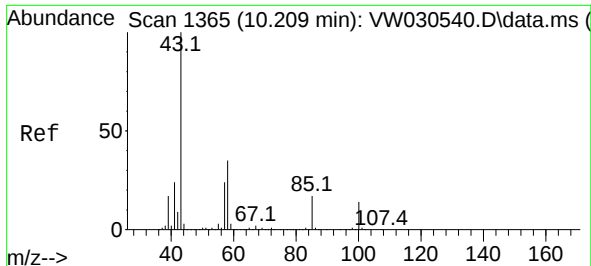
Tgt Ion: 75 Resp: 436065

Ion Ratio Lower Upper

75 100

77 30.8 21.1 39.1





#40

4-Methyl-2-pentanone

Concen: 176.115 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. 0.000 min

Lab File: VW030548.D

Acq: 11 Oct 2024 14:50

Instrument :

MSVOA_W

ClientSampleId :

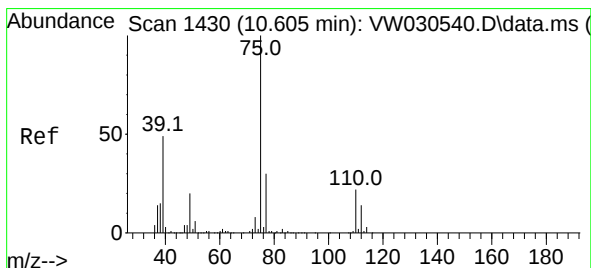
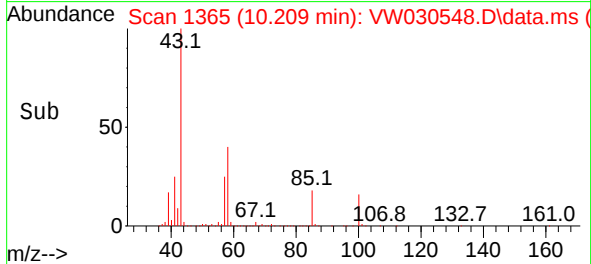
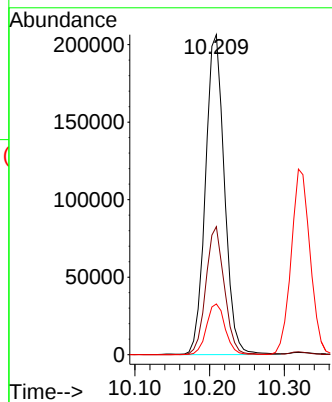
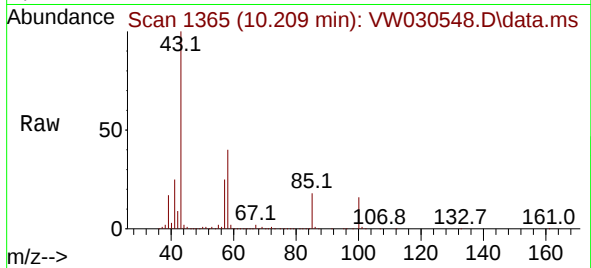
Tgt Ion: 43 Resp: 363823

Ion Ratio Lower Upper

43 100

58 39.0 31.4 47.2

100 15.7 13.1 19.7



#44

trans-1,3-Dichloropropene

Concen: 76.886 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. 0.000 min

Lab File: VW030548.D

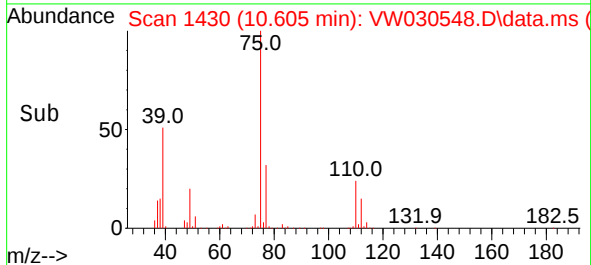
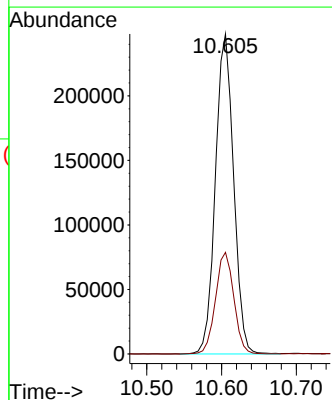
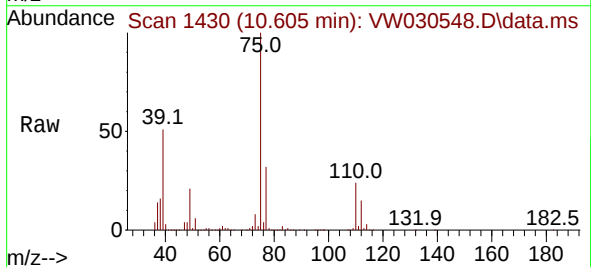
Acq: 11 Oct 2024 14:50

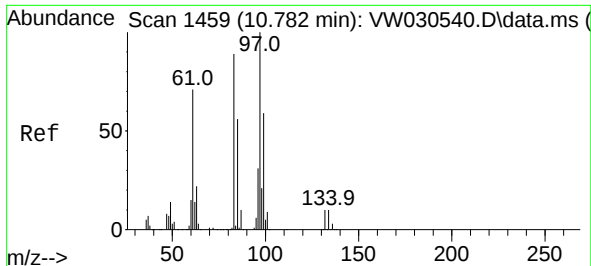
Tgt Ion: 75 Resp: 419069

Ion Ratio Lower Upper

75 100

77 31.8 21.6 40.2





#45

1,1,2-Trichloroethane

Concen: 51.696 ug/L

RT: 10.788 min Scan# 1459

Delta R.T. 0.006 min

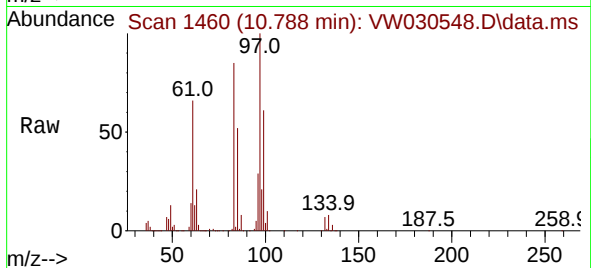
Lab File: VW030548.D

Acq: 11 Oct 2024 14:50

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 97 Resp: 160663

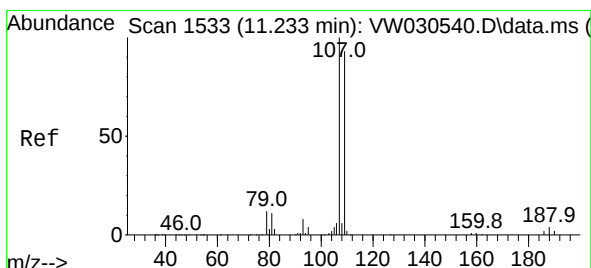
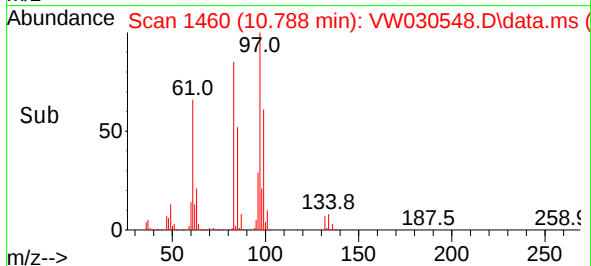
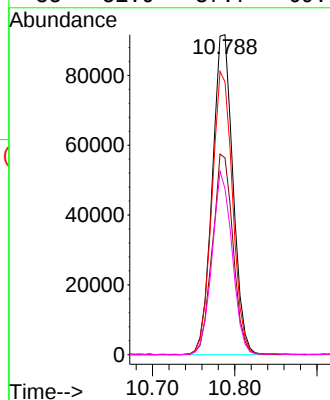
Ion Ratio Lower Upper

97 100

99 61.5 41.2 76.6

83 85.3 59.6 110.6

85 51.9 37.7 69.9



#50

1,2-Dibromoethane

Concen: 48.522 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. 0.000 min

Lab File: VW030548.D

Acq: 11 Oct 2024 14:50

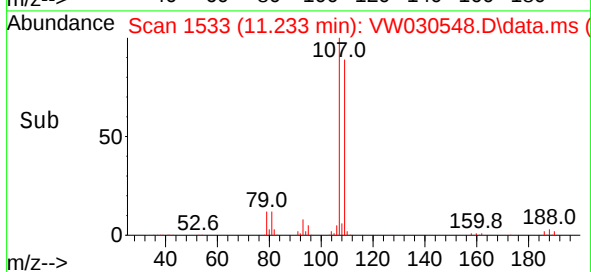
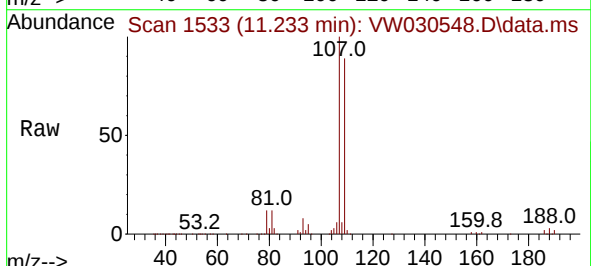
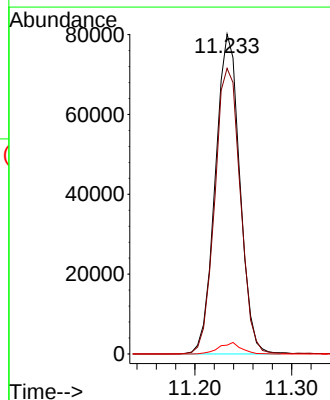
Tgt Ion:107 Resp: 140712

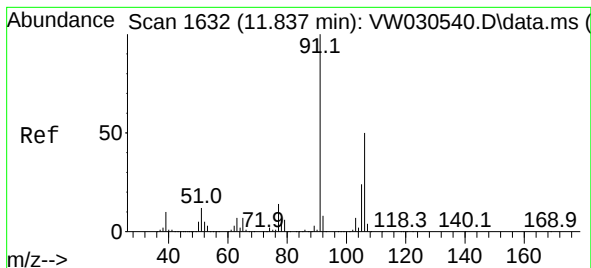
Ion Ratio Lower Upper

107 100

109 89.3 63.8 118.6

188 2.7 2.6 3.8

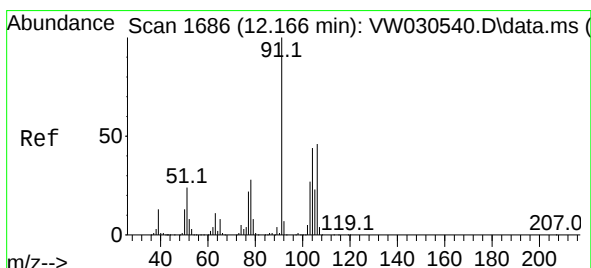
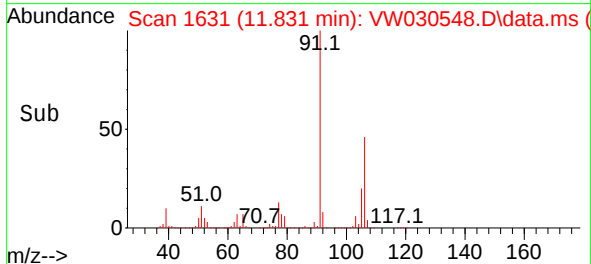
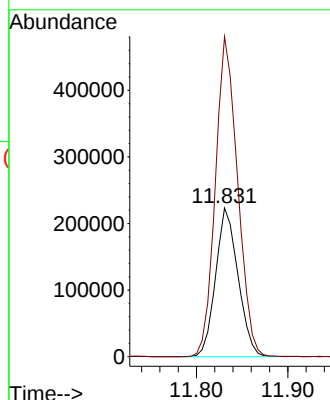
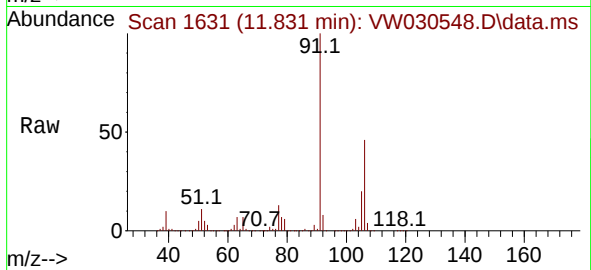




#53
m,p-Xylene
Concen: 48.396 ug/L
RT: 11.831 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW030548.D
Acq: 11 Oct 2024 14:50

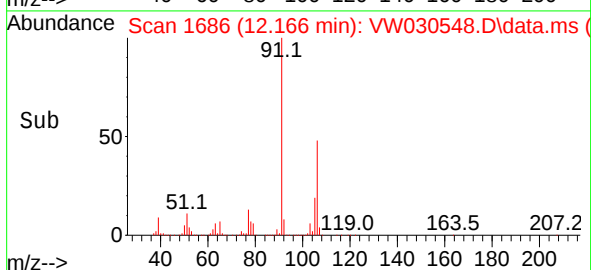
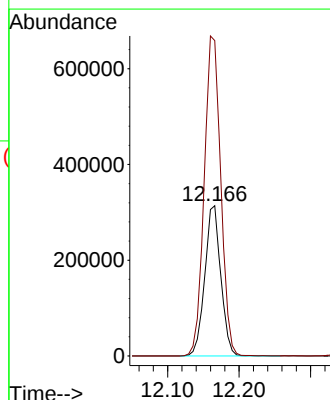
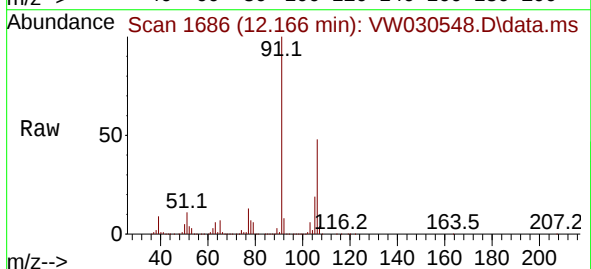
Instrument :
MSVOA_W
ClientSampleId :

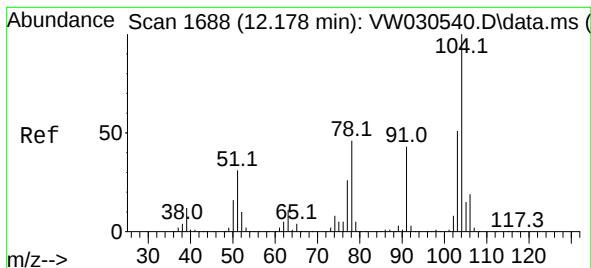
Tgt Ion:106 Resp: 380023
Ion Ratio Lower Upper
106 100
91 215.3 140.6 261.2



#54
o-Xylene
Concen: 67.163 ug/L
RT: 12.166 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VW030548.D
Acq: 11 Oct 2024 14:50

Tgt Ion:106 Resp: 487570
Ion Ratio Lower Upper
106 100
91 209.8 144.5 268.4





#55

Styrene

Concen: 2.117 ug/L

RT: 12.160 min Scan# 1

Delta R.T. -0.018 min

Lab File: VW030548.D

Acq: 11 Oct 2024 14:50

Instrument :

MSVOA_W

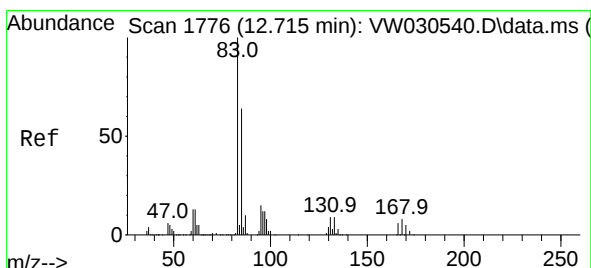
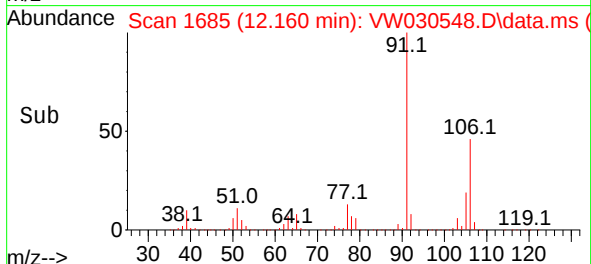
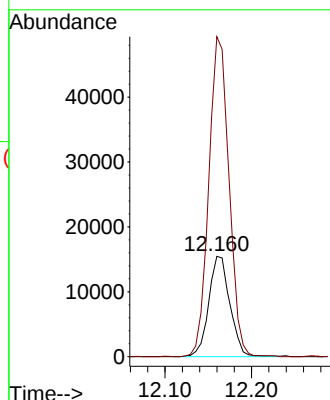
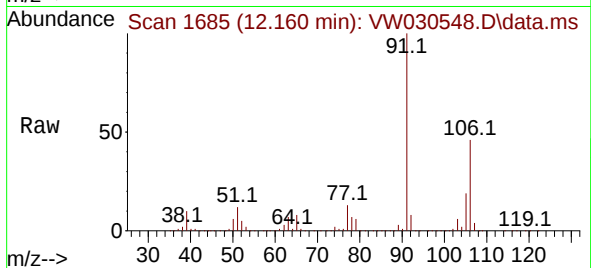
ClientSampleId :

Tgt Ion:104 Resp: 26276

Ion Ratio Lower Upper

104 100

78 319.0 34.3 63.7#



#57

1,1,2,2-Tetrachloroethane

Concen: 53.924 ug/L

RT: 12.715 min Scan# 1776

Delta R.T. 0.000 min

Lab File: VW030548.D

Acq: 11 Oct 2024 14:50

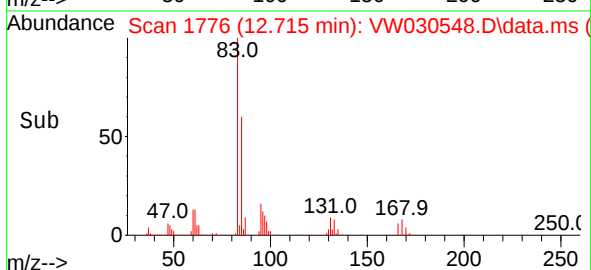
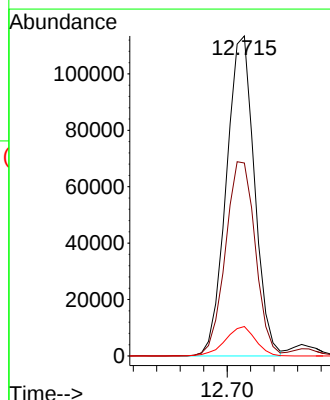
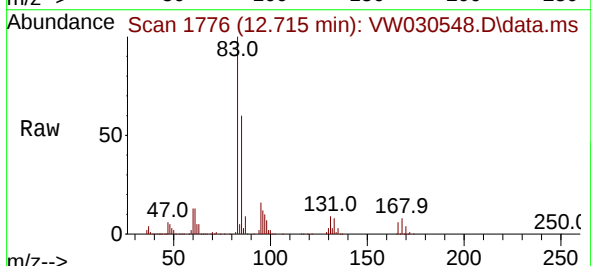
Tgt Ion: 83 Resp: 188987

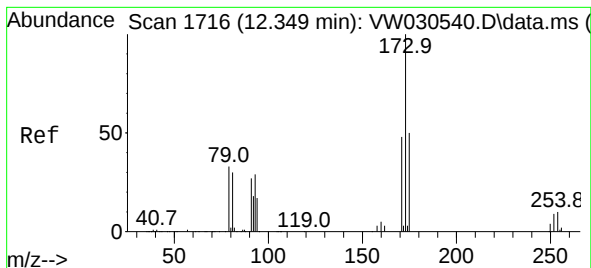
Ion Ratio Lower Upper

83 100

85 60.3 42.6 79.2

131 9.2 7.4 11.0





#59

Bromoform

Concen: 18.857 ug/L

RT: 12.349 min Scan# 1716

Delta R.T. 0.000 min

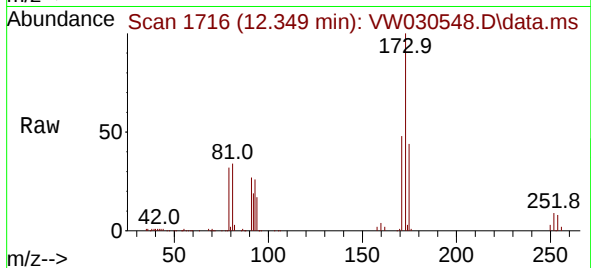
Lab File: VW030548.D

Acq: 11 Oct 2024 14:50

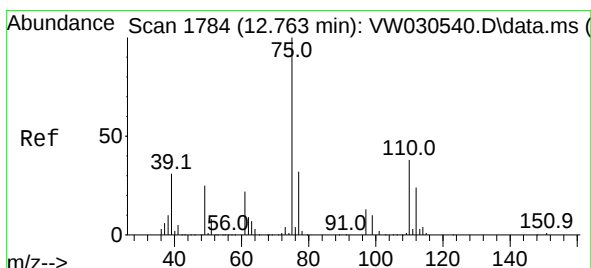
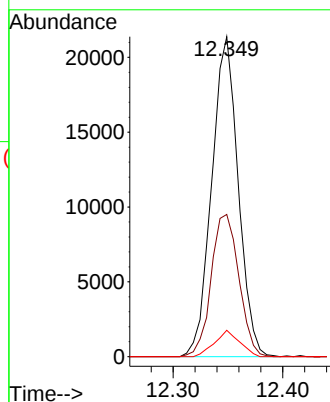
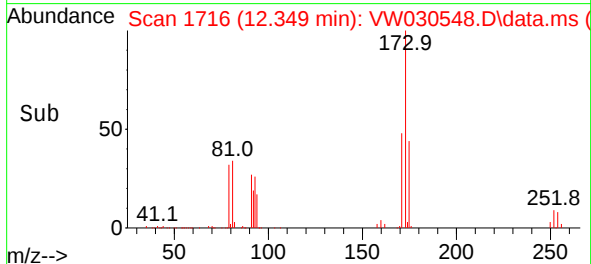
Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:	173	Resp:	35942
Ion Ratio	Lower	Upper	
173	100		
175	46.4	39.0	58.4
254	7.8	7.7	11.5



#61

1,2,3-Trichloropropane

Concen: 80.098 ug/L

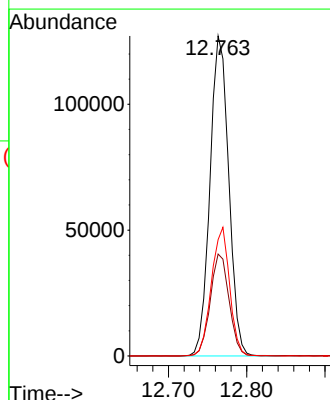
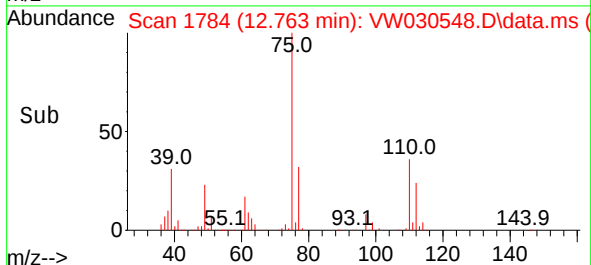
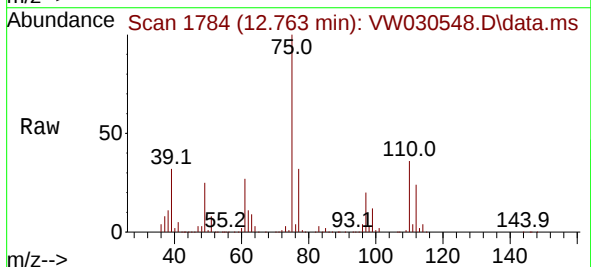
RT: 12.763 min Scan# 1784

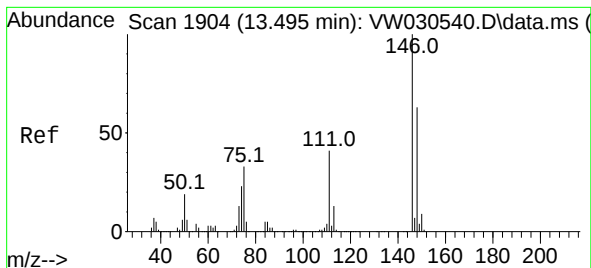
Delta R.T. 0.000 min

Lab File: VW030548.D

Acq: 11 Oct 2024 14:50

Tgt Ion:	75	Resp:	211452
Ion Ratio	Lower	Upper	
75	100		
77	32.1	25.7	38.5
110	39.1	32.3	48.5





#64

1,3-Dichlorobenzene

Concen: 37.309 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VW030548.D

Acq: 11 Oct 2024 14:50

Instrument :

MSVOA_W

ClientSampleId :

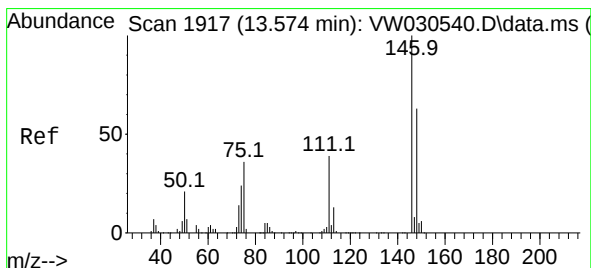
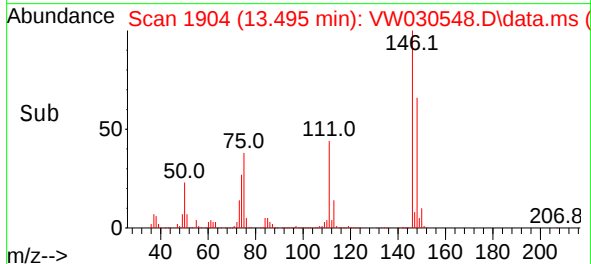
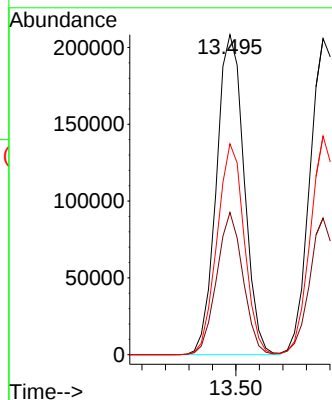
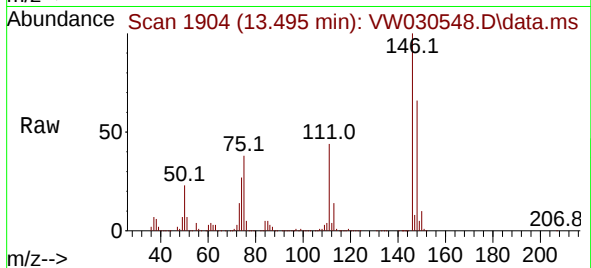
Tgt Ion:146 Resp: 341186

Ion Ratio Lower Upper

146 100

111 44.5 31.2 58.0

148 65.9 45.7 84.9



#65

1,4-Dichlorobenzene

Concen: 36.307 ug/L

RT: 13.574 min Scan# 1917

Delta R.T. 0.000 min

Lab File: VW030548.D

Acq: 11 Oct 2024 14:50

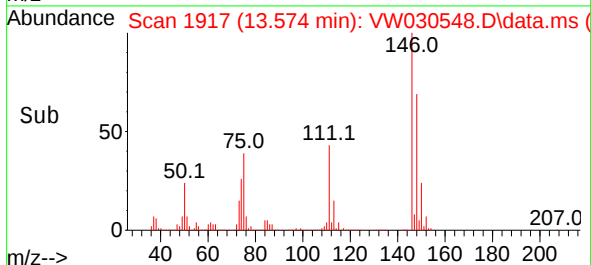
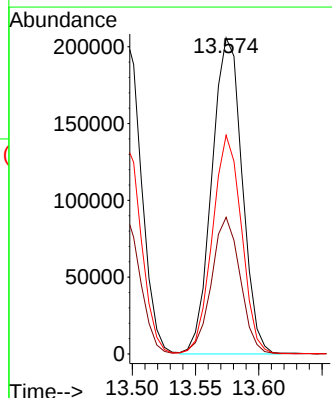
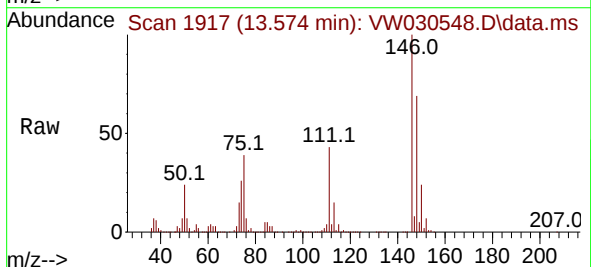
Tgt Ion:146 Resp: 342836

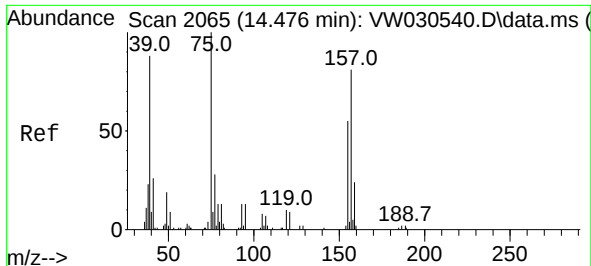
Ion Ratio Lower Upper

146 100

111 43.2 26.8 49.8

148 69.2 41.0 76.2





#68

1,2-Dibromo-3-chloropropane

Concen: 23.223 ug/L

RT: 14.483 min Scan# 2066

Delta R.T. 0.006 min

Lab File: VW030548.D

Acq: 11 Oct 2024 14:50

Instrument :

MSVOA_W

ClientSampleId :

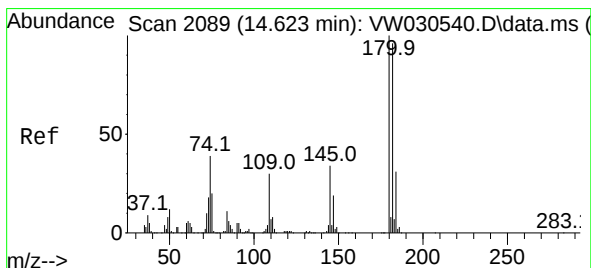
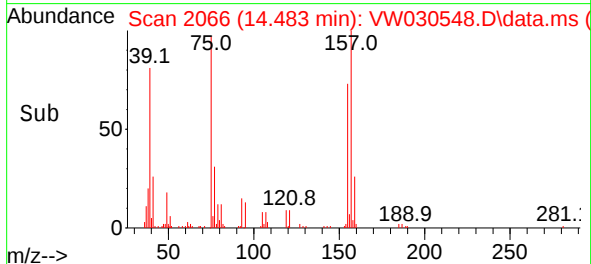
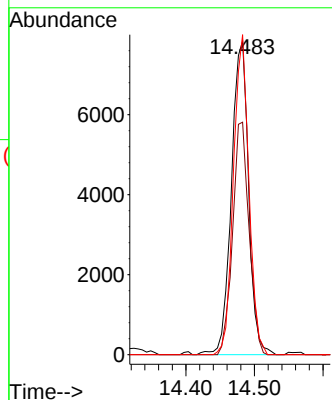
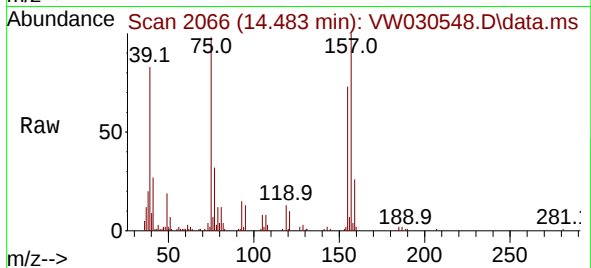
Tgt Ion: 75 Resp: 13670

Ion Ratio Lower Upper

75 100

155 74.1 57.9 86.9

157 102.0 69.0 103.6



#69

1,3,5-Trichlorobenzene

Concen: 16.057 ug/L

RT: 15.129 min Scan# 2172

Delta R.T. 0.506 min

Lab File: VW030548.D

Acq: 11 Oct 2024 14:50

Tgt Ion:180 Resp: 96830

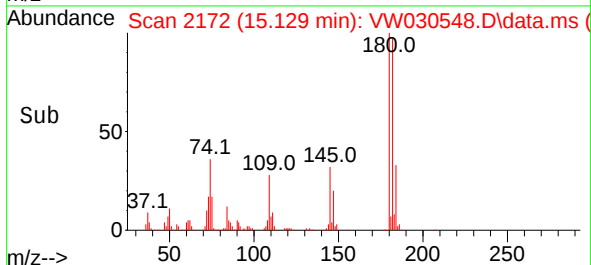
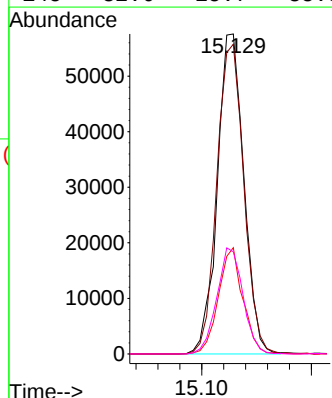
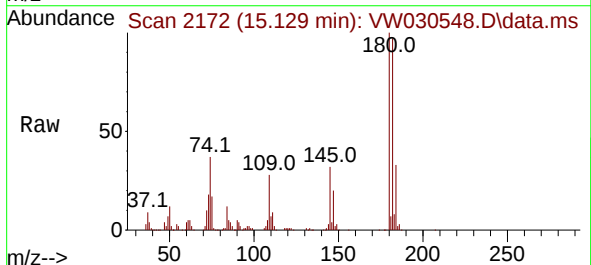
Ion Ratio Lower Upper

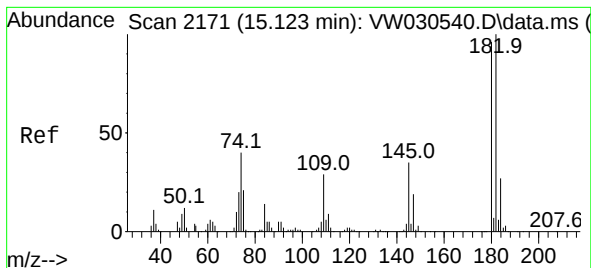
180 100

182 98.4 79.9 119.9

184 30.6 25.2 37.8

145 32.6 25.7 38.5





#70

1,2,4-trichlorobenzene

Concen: 19.945 ug/L

RT: 15.129 min Scan# 2171

Delta R.T. 0.006 min

Lab File: VW030548.D

Acq: 11 Oct 2024 14:50

Instrument :

MSVOA_W

ClientSampleId :

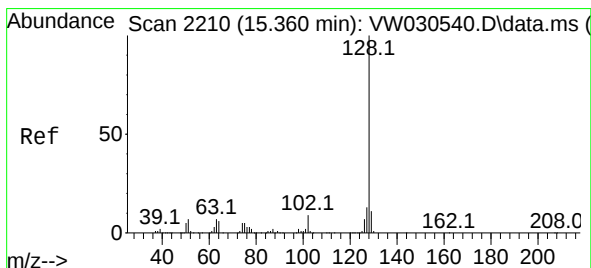
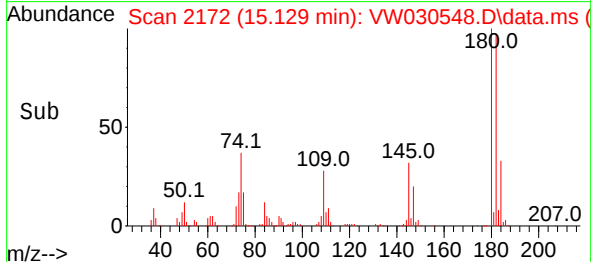
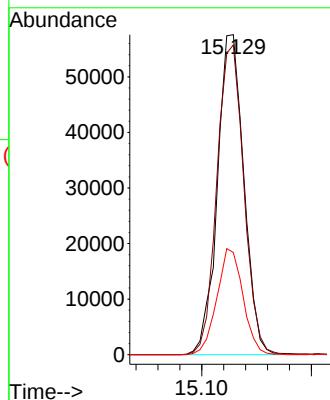
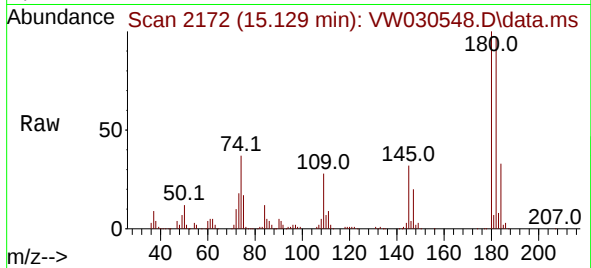
Tgt Ion:180 Resp: 96830

Ion Ratio Lower Upper

180 100

182 98.4 75.2 112.8

145 32.6 25.4 38.2



#71

Naphthalene

Concen: 83.321 ug/L

RT: 15.361 min Scan# 2210

Delta R.T. 0.000 min

Lab File: VW030548.D

Acq: 11 Oct 2024 14:50

Tgt Ion:128 Resp: 698853

Ion Ratio Lower Upper

128 100

127 13.2 10.9 16.3

129 11.1 8.8 13.2

