

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW101124\
 Data File : VW030546.D
 Acq On : 11 Oct 2024 14:02
 Operator : SY/MD
 Sample : P4352-01DL 2X
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 14 01:41:16 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	314715	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	290817	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	139883	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	101606	20.540	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	82.160%
7) Chloroethane-d5	2.899	69	84136	22.469	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.880%
11) 1,1-Dichloroethene-d2	4.021	65	41945	20.386	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	81.560%
21) 2-Butanone-d5	7.075	46	45253	50.832	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	101.660%
24) Chloroform-d	7.648	84	213152	23.683	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	94.720%
26) 1,2-Dichloroethane-d4	8.307	65	110998	23.717	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	94.880%
32) Benzene-d6	8.276	84	375132	22.225	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	88.880%
36) 1,2-Dichloropropane-d6	9.276	67	111654	22.538	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	90.160%
41) Toluene-d8	10.325	98	354698	23.019	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	92.080%
43) trans-1,3-Dichloroprop...	10.575	79	47504	22.899	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	91.600%
47) 2-Hexanone-d5	10.922	63	34676	54.343	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.680%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	92787	25.503	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	102.000%
66) 1,2-Dichlorobenzene-d4	13.848	152	115160	24.331	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	97.320%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.045	96	75172	17.803	ug/L	95
13) Acetone	4.124	43	35729	27.413	ug/L	96
16) Methylene chloride	4.923	84	181008	38.044	ug/L	94
17) trans-1,2-Dichloroethene	5.429	96	61877	13.581	ug/L	94
18) Methyl tert-butyl Ether	5.429	73	130089	20.401	ug/L	99
19) 1,1-Dichloroethane	6.222	63	348006	41.096	ug/L	98
22) 2-Butanone	7.173	43	133244	94.842	ug/L	95
25) Chloroform	7.679	83	369289	40.808	ug/L	99
31) Carbon tetrachloride	8.069	117	48708	7.064	ug/L	99
33) Benzene	8.325	78	563524	29.777	ug/L	100
34) Trichloroethene	9.093	95	222608	42.280	ug/L	98
37) 1,2-Dichloropropane	9.367	63	82336	17.420	ug/L	99
39) cis-1,3-Dichloropropene	10.069	75	208678	29.270	ug/L	99
40) 4-Methyl-2-pentanone	10.209	43	178453	78.589	ug/L	98
44) trans-1,3-Dichloropropene	10.605	75	201129	33.571	ug/L	98
45) 1,1,2-Trichloroethane	10.788	97	81630	23.896	ug/L	98
50) 1,2-Dibromoethane	11.233	107	70475	22.109	ug/L	94
53) m,p-Xylene	11.837	106	185236	21.461	ug/L	98
54) o-Xylene	12.166	106	239124	29.967	ug/L	97

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Quant Title : SFAM01.0
QLast Update : Mon Oct 14 01:34:28 2024
Response via : Initial Calibration

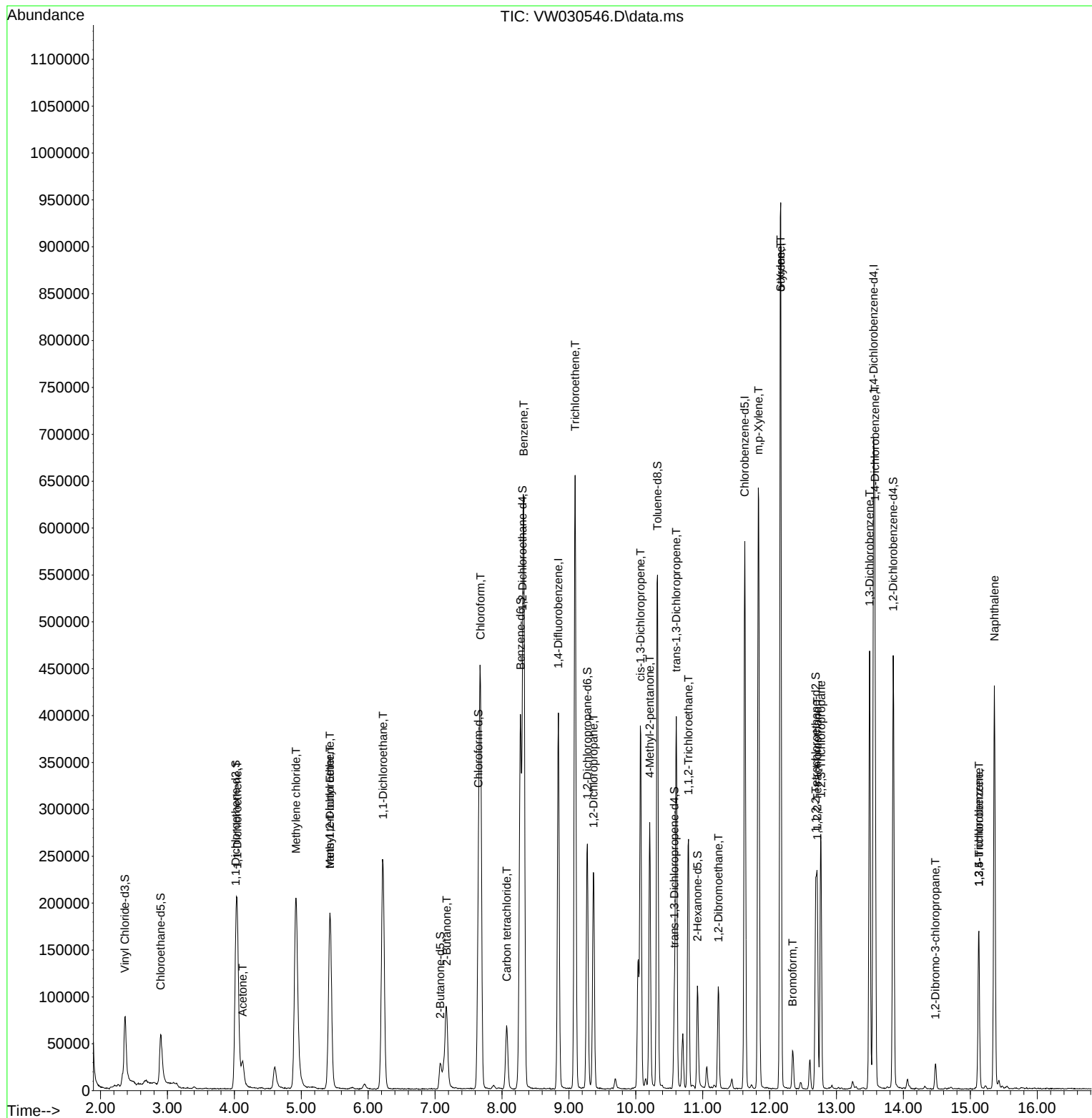
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	12.166	104	13385	0.981	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.714	83	95882	24.890	ug/L	99
59) Bromoform	12.343	173	16834	8.566	ug/L	97
61) 1,2,3-Trichloropropane	12.769	75	107412	39.461	ug/L	99
64) 1,3-Dichlorobenzene	13.495	146	164506	17.446	ug/L	94
65) 1,4-Dichlorobenzene	13.574	146	177599	18.241	ug/L	93
68) 1,2-Dibromo-3-chloropr...	14.476	75	6836	11.263	ug/L	97
69) 1,3,5-Trichlorobenzene	15.129	180	47986	7.717	ug/L	95
70) 1,2,4-trichlorobenzene	15.129	180	47986	9.586	ug/L	99
71) Naphthalene	15.360	128	334947	38.731	ug/L	100

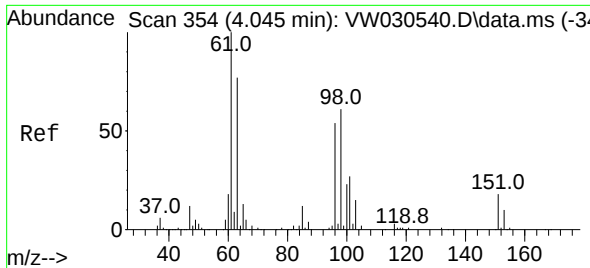
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 17.803 ug/L

RT: 4.045 min Scan# 354

Delta R.T. -0.000 min

Lab File: VW030546.D

Acq: 11 Oct 2024 14:02

Instrument :

MSVOA_W

ClientSampleId :

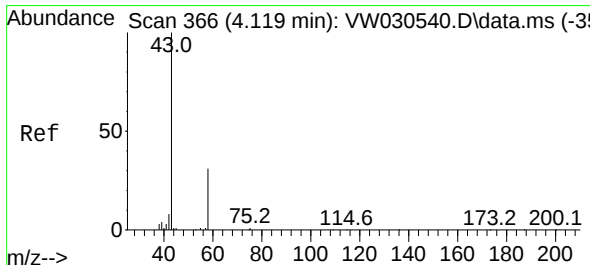
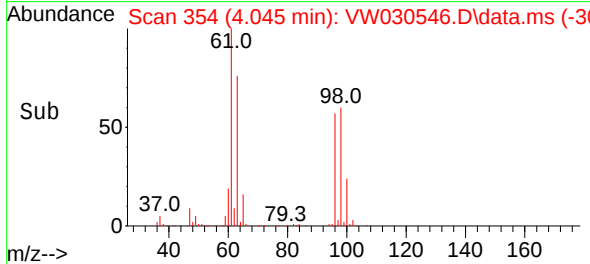
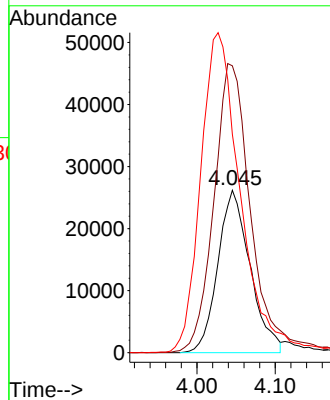
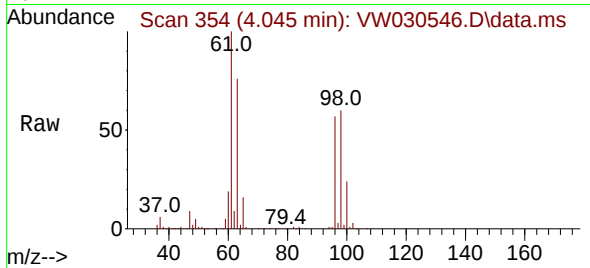
Tgt Ion: 96 Resp: 75172

Ion Ratio Lower Upper

96 100

61 176.7 121.3 225.3

63 134.5 87.6 162.8



#13

Acetone

Concen: 27.413 ug/L

RT: 4.124 min Scan# 367

Delta R.T. 0.006 min

Lab File: VW030546.D

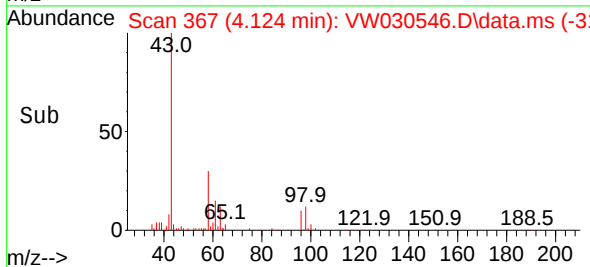
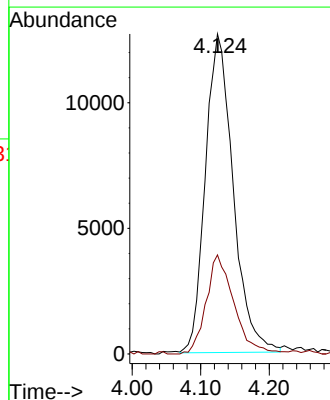
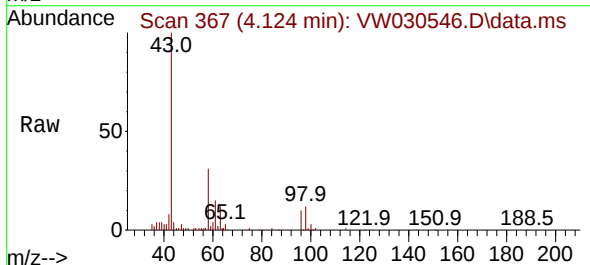
Acq: 11 Oct 2024 14:02

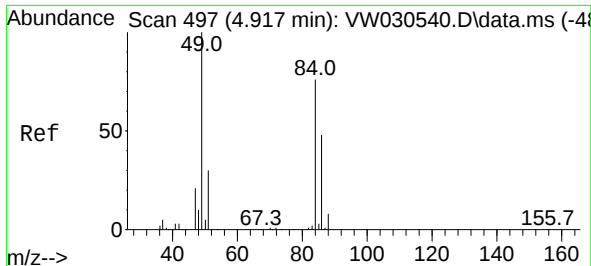
Tgt Ion: 43 Resp: 35729

Ion Ratio Lower Upper

43 100

58 31.1 0.0 57.6

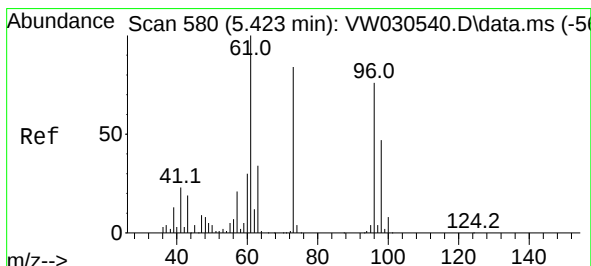
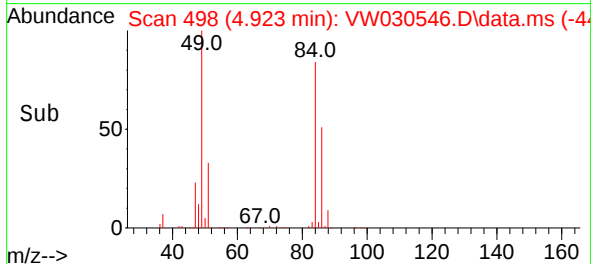
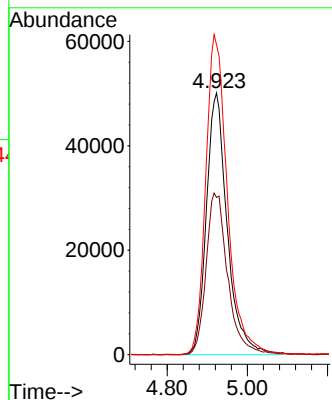
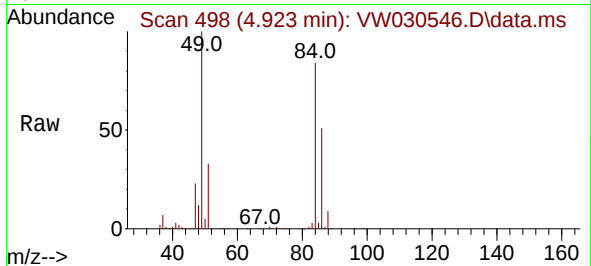




#16
Methylene chloride
Concen: 38.044 ug/L
RT: 4.923 min Scan# 498
Delta R.T. 0.006 min
Lab File: VW030546.D
Acq: 11 Oct 2024 14:02

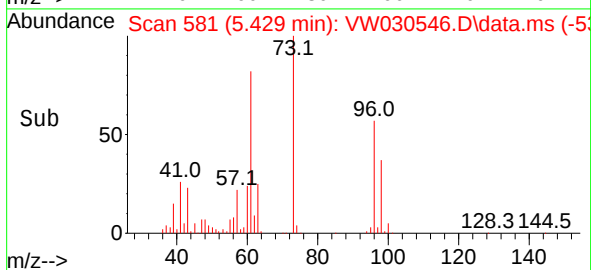
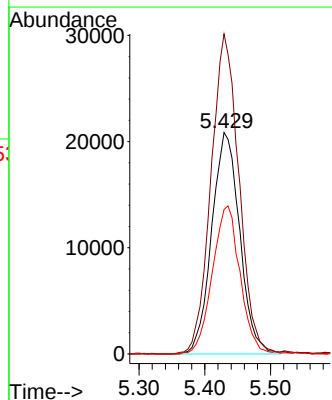
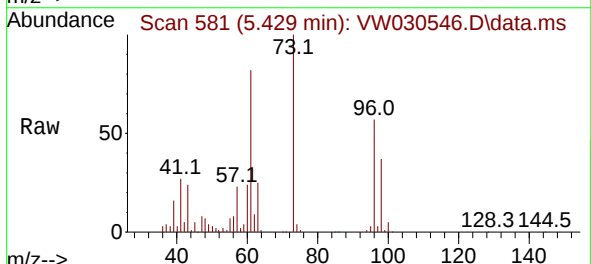
Instrument :
MSVOA_W
ClientSampleId :

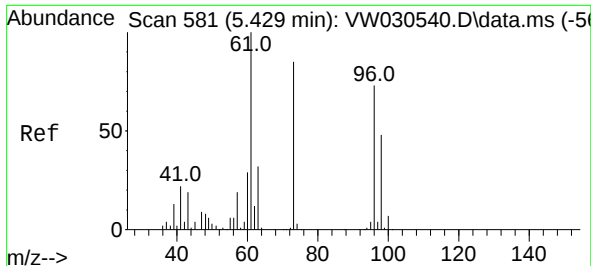
Tgt Ion: 84 Resp: 181008
Ion Ratio Lower Upper
84 100
86 60.1 43.8 81.3
49 118.4 88.3 164.1



#17
trans-1,2-Dichloroethene
Concen: 13.581 ug/L
RT: 5.429 min Scan# 581
Delta R.T. 0.006 min
Lab File: VW030546.D
Acq: 11 Oct 2024 14:02

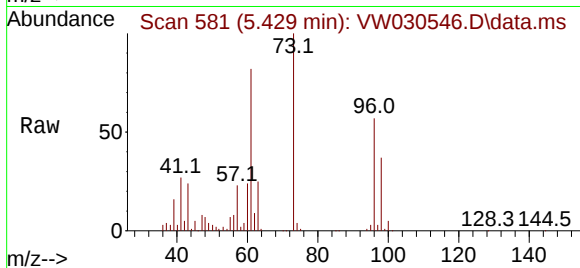
Tgt Ion: 96 Resp: 61877
Ion Ratio Lower Upper
96 100
61 144.6 96.9 179.9
98 65.3 42.2 78.4



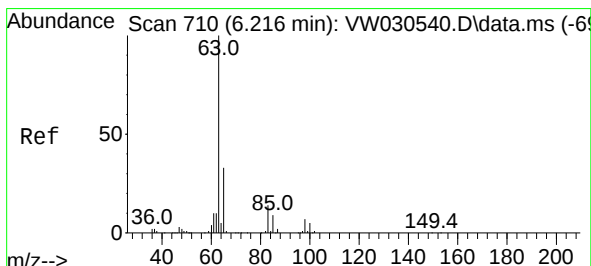
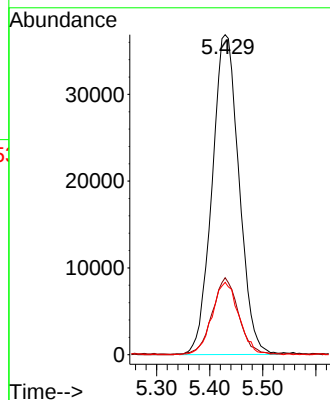
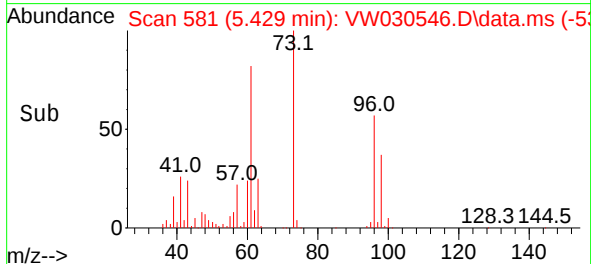


#18
Methyl tert-butyl Ether
Concen: 20.401 ug/L
RT: 5.429 min Scan# 581
Delta R.T. -0.000 min
Lab File: VW030546.D
Acq: 11 Oct 2024 14:02

Instrument :
MSVOA_W
ClientSampleId :

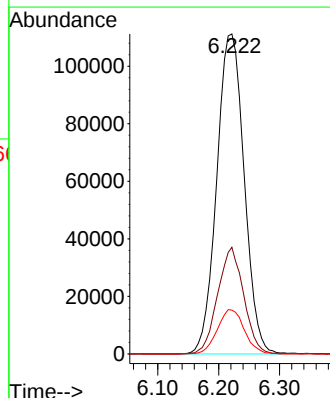
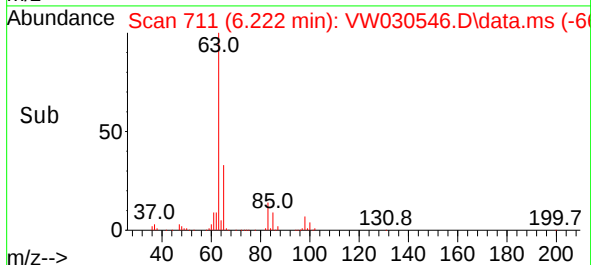
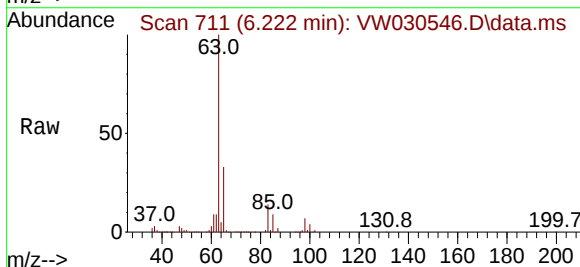


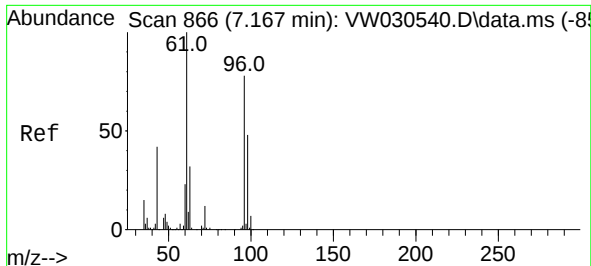
Tgt Ion: 73 Resp: 130089
Ion Ratio Lower Upper
73 100
43 23.0 18.1 27.1
57 22.4 17.7 26.5



#19
1,1-Dichloroethane
Concen: 41.096 ug/L
RT: 6.222 min Scan# 711
Delta R.T. 0.006 min
Lab File: VW030546.D
Acq: 11 Oct 2024 14:02

Tgt Ion: 63 Resp: 348006
Ion Ratio Lower Upper
63 100
65 33.3 22.5 41.9
83 13.7 9.8 18.2





#22

2-Butanone

Concen: 94.842 ug/L

RT: 7.173 min Scan# 866

Delta R.T. 0.006 min

Lab File: VW030546.D

Acq: 11 Oct 2024 14:02

Instrument :

MSVOA_W

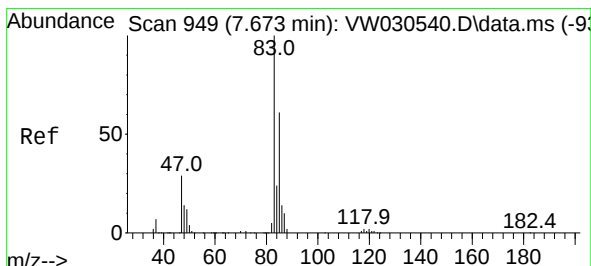
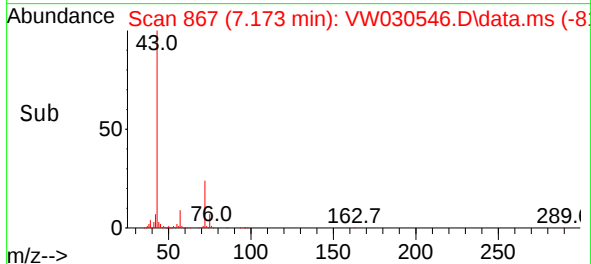
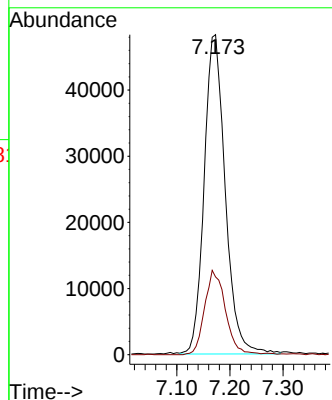
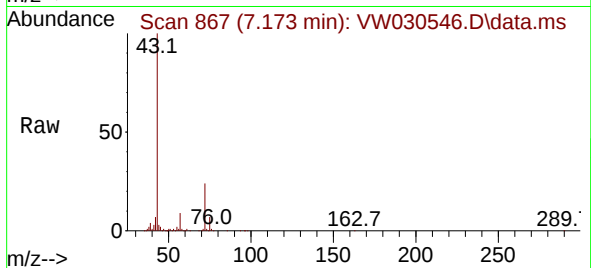
ClientSampleId :

Tgt Ion: 43 Resp: 133244

Ion Ratio Lower Upper

43 100

72 26.0 14.4 43.0



#25

Chloroform

Concen: 40.808 ug/L

RT: 7.679 min Scan# 950

Delta R.T. 0.006 min

Lab File: VW030546.D

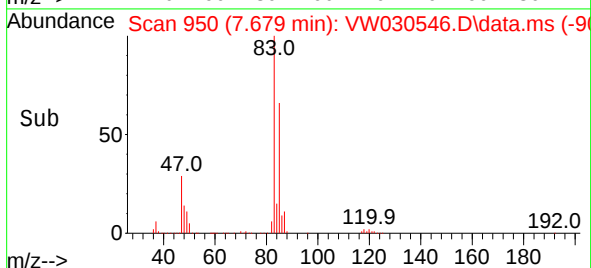
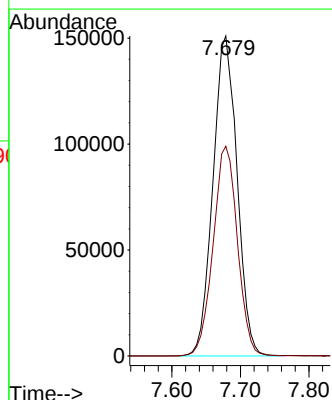
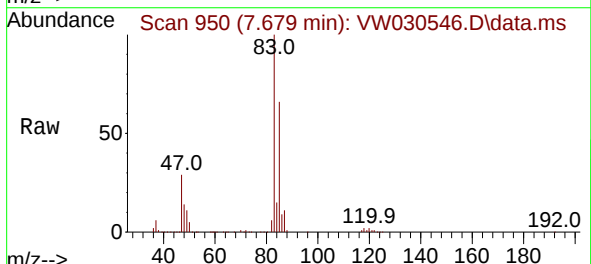
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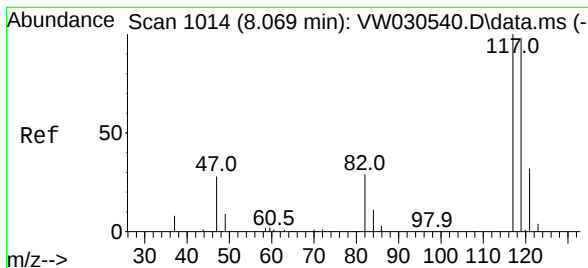
Tgt Ion: 83 Resp: 369289

Ion Ratio Lower Upper

83 100

85 65.5 45.1 83.7





#31

Carbon tetrachloride

Concen: 7.064 ug/L

RT: 8.069 min Scan# 1014

Delta R.T. -0.000 min

Lab File: VW030546.D

Acq: 11 Oct 2024 14:02

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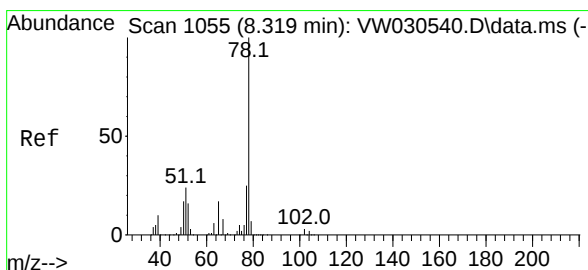
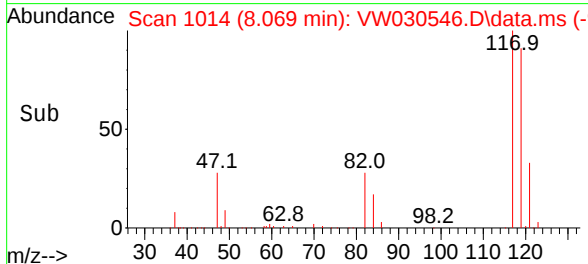
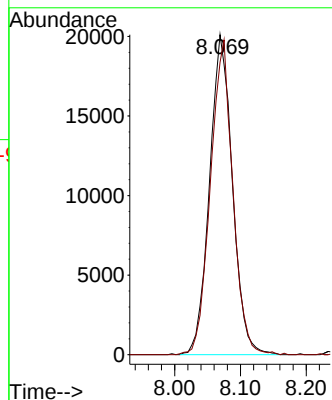
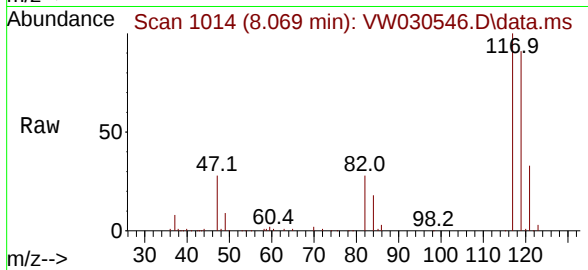
ClientSampleId :

Tgt Ion:117 Resp: 48708

Ion Ratio Lower Upper

117 100

119 96.0 77.8 116.8



#33

Benzene

Concen: 29.777 ug/L

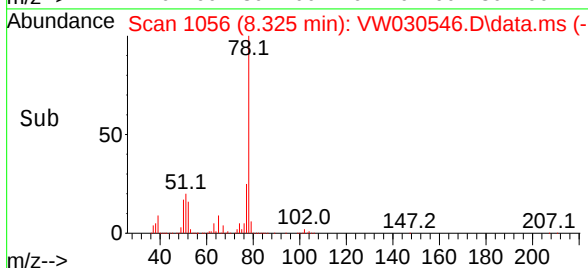
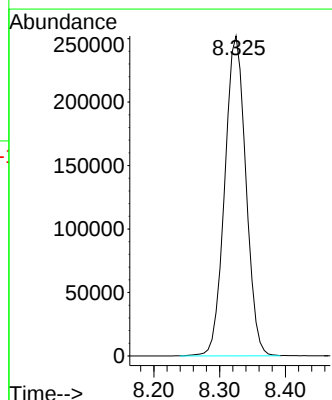
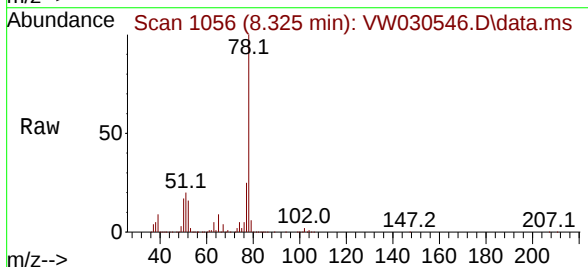
RT: 8.325 min Scan# 1056

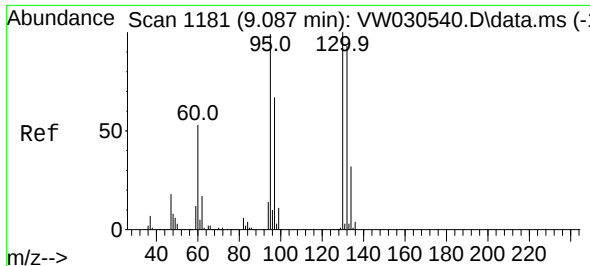
Delta R.T. 0.006 min

Lab File: VW030546.D

Acq: 11 Oct 2024 14:02

Tgt Ion: 78 Resp: 563524





#34

Trichloroethene

Concen: 42.280 ug/L

RT: 9.093 min Scan# 1181

Delta R.T. 0.006 min

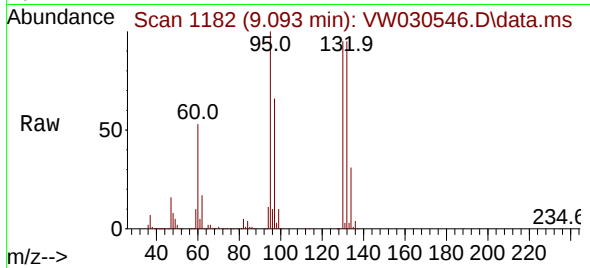
Lab File: VW030546.D

Acq: 11 Oct 2024 14:02

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 95 Resp: 222608

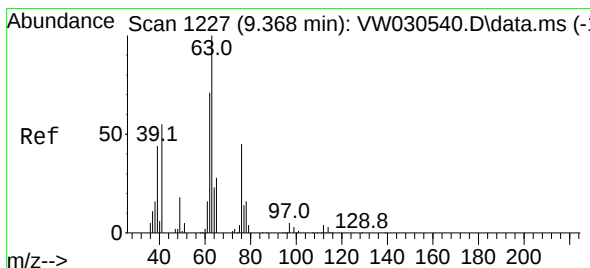
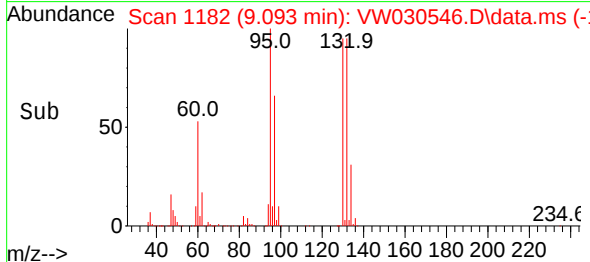
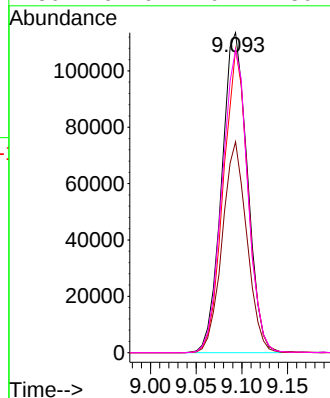
Ion Ratio Lower Upper

95 100

97 65.9 45.9 85.3

132 95.0 66.4 123.2

130 94.6 70.4 130.8



#37

1,2-Dichloropropane

Concen: 17.420 ug/L

RT: 9.367 min Scan# 1227

Delta R.T. -0.000 min

Lab File: VW030546.D

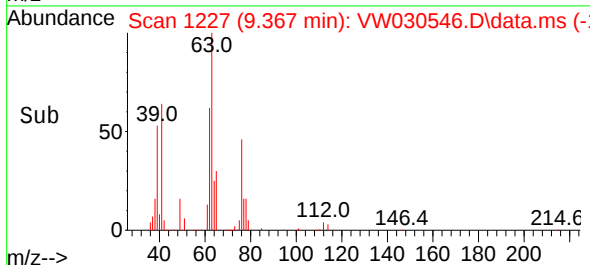
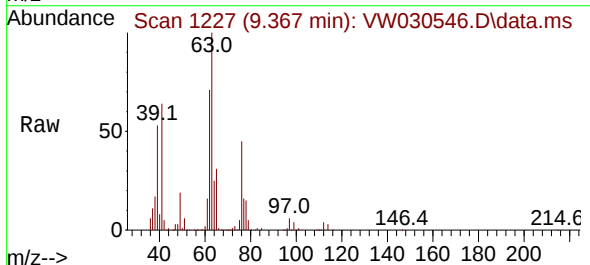
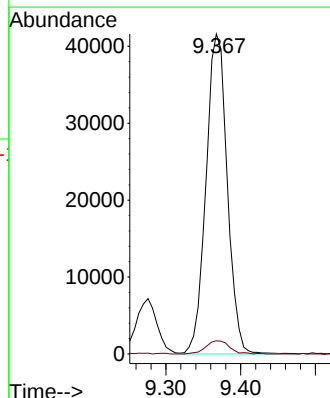
Acq: 11 Oct 2024 14:02

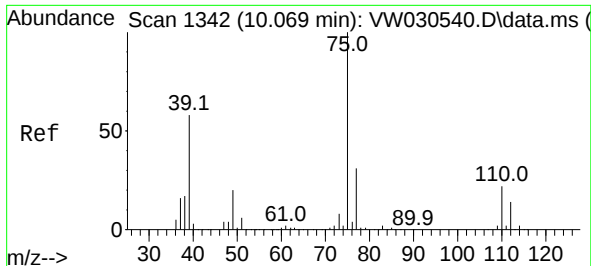
Tgt Ion: 63 Resp: 82336

Ion Ratio Lower Upper

63 100

112 4.4 3.7 5.5





#39

cis-1,3-Dichloropropene

Concen: 29.270 ug/L

RT: 10.069 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VW030546.D

Acq: 11 Oct 2024 14:02

Instrument :

MSVOA_W

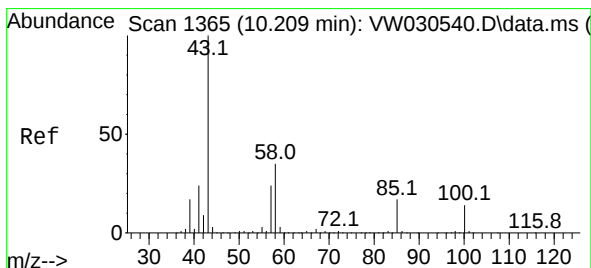
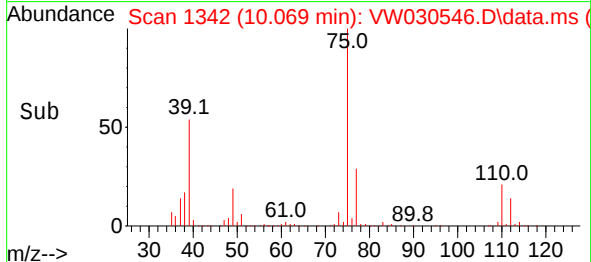
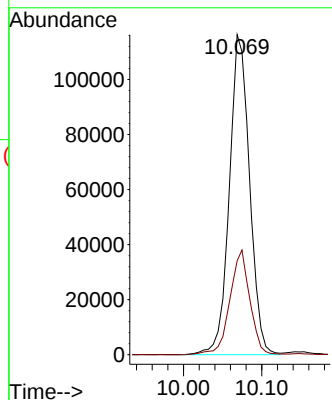
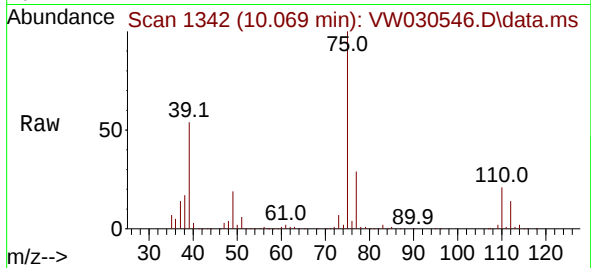
ClientSampleId :

Tgt Ion: 75 Resp: 208678

Ion Ratio Lower Upper

75 100

77 29.3 21.1 39.1



#40

4-Methyl-2-pentanone

Concen: 78.589 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. -0.000 min

Lab File: VW030546.D

Acq: 11 Oct 2024 14:02

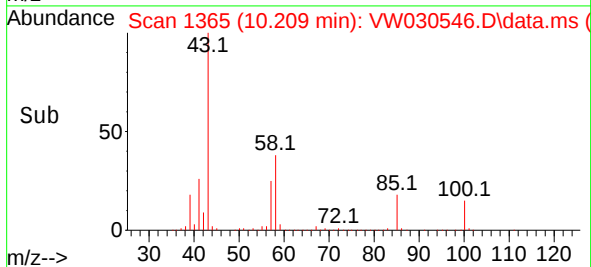
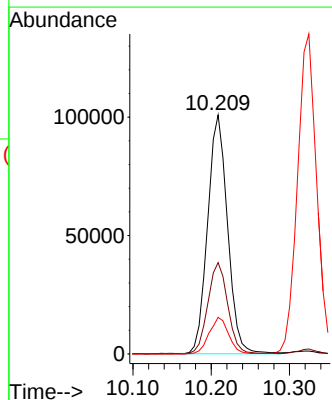
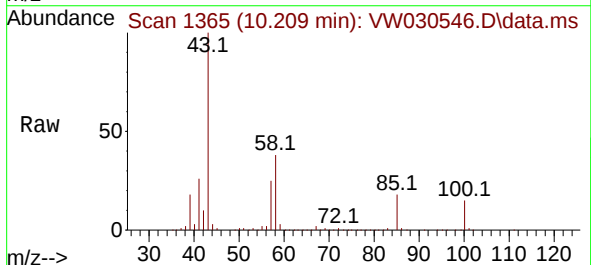
Tgt Ion: 43 Resp: 178453

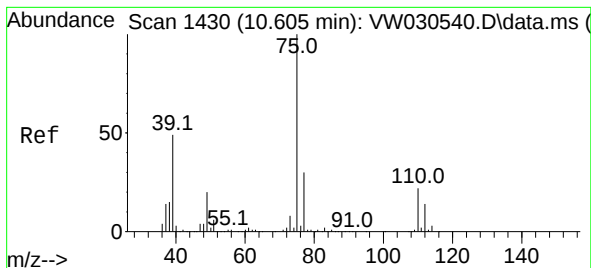
Ion Ratio Lower Upper

43 100

58 38.1 31.4 47.2

100 14.9 13.1 19.7





#44

trans-1,3-Dichloropropene

Concen: 33.571 ug/L

RT: 10.605 min Scan# 14

Delta R.T. -0.000 min

Lab File: VW030546.D

Acq: 11 Oct 2024 14:02

Instrument :

MSVOA_W

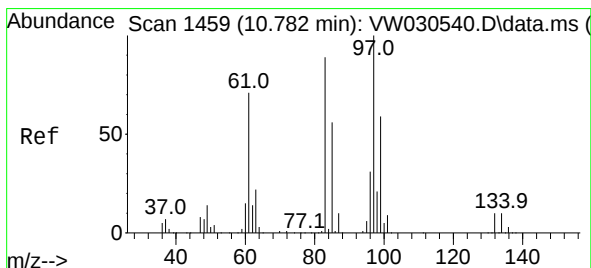
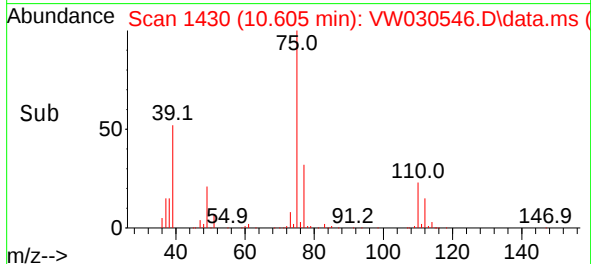
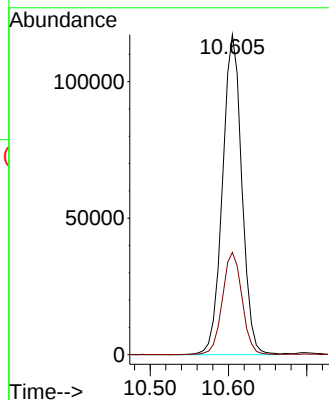
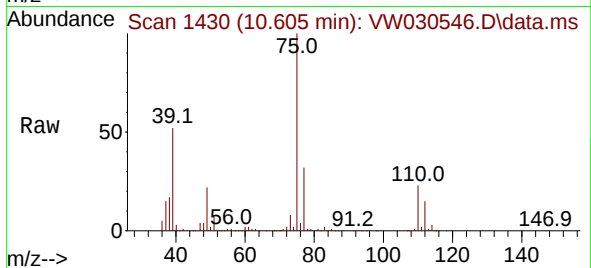
ClientSampleId :

Tgt Ion: 75 Resp: 201129

Ion Ratio Lower Upper

75 100

77 31.9 21.6 40.2



#45

1,1,2-Trichloroethane

Concen: 23.896 ug/L

RT: 10.788 min Scan# 1460

Delta R.T. 0.006 min

Lab File: VW030546.D

Acq: 11 Oct 2024 14:02

Tgt Ion: 97 Resp: 81630

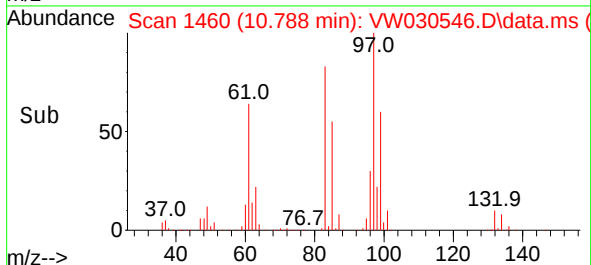
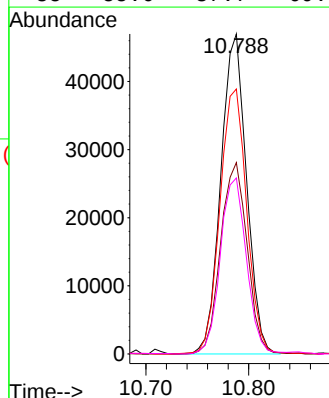
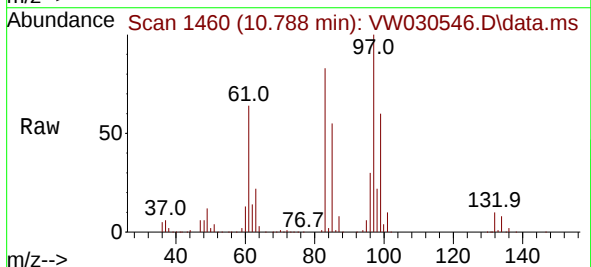
Ion Ratio Lower Upper

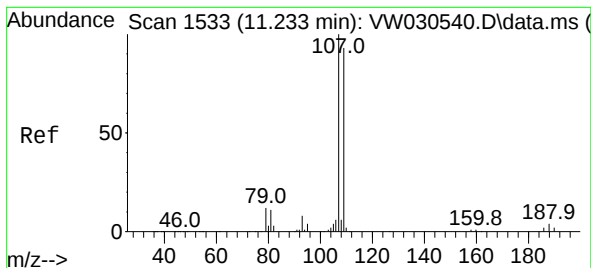
97 100

99 59.8 41.2 76.6

83 82.8 59.6 110.6

85 55.0 37.7 69.9





#50

1,2-Dibromoethane

Concen: 22.109 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. -0.000 min

Lab File: VW030546.D

Acq: 11 Oct 2024 14:02

Instrument :

MSVOA_W

ClientSampleId :

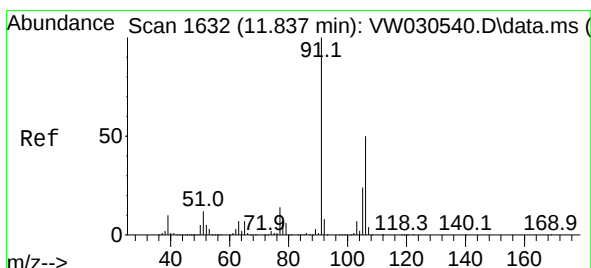
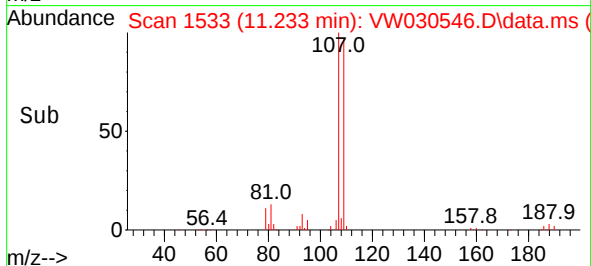
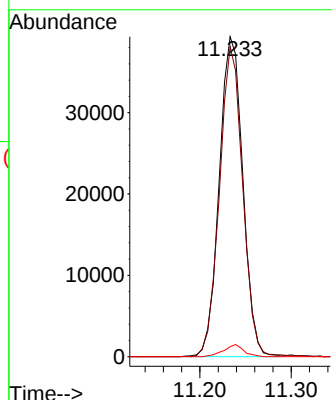
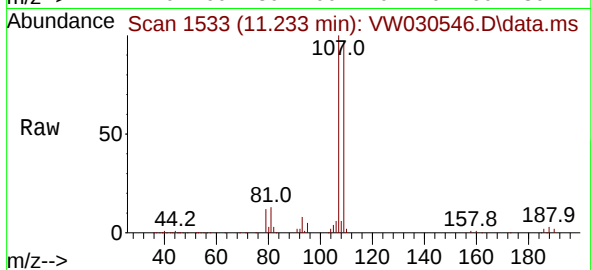
Tgt Ion:107 Resp: 70475

Ion Ratio Lower Upper

107 100

109 96.9 63.8 118.6

188 3.1 2.6 3.8



#53

m,p-Xylene

Concen: 21.461 ug/L

RT: 11.837 min Scan# 1632

Delta R.T. -0.000 min

Lab File: VW030546.D

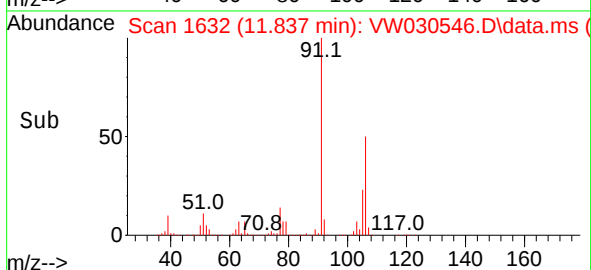
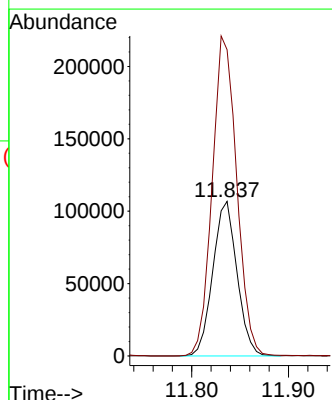
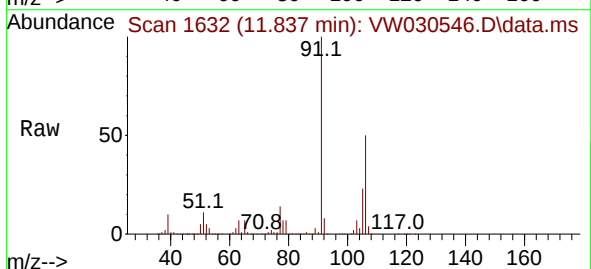
Acq: 11 Oct 2024 14:02

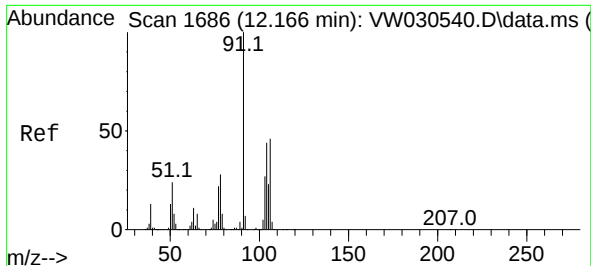
Tgt Ion:106 Resp: 185236

Ion Ratio Lower Upper

106 100

91 198.2 140.6 261.2

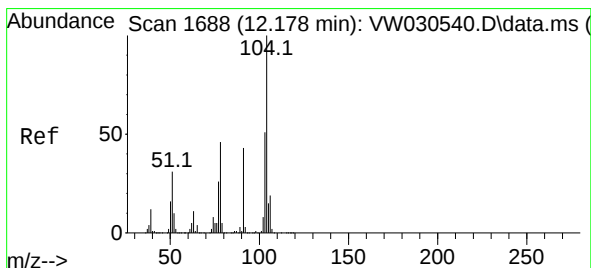
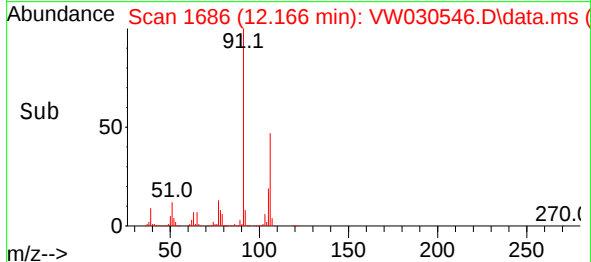
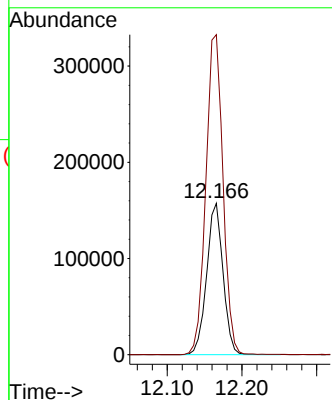
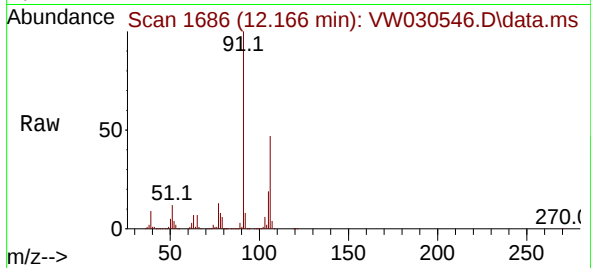




#54
o-Xylene
Concen: 29.967 ug/L
RT: 12.166 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VW030546.D
Acq: 11 Oct 2024 14:02

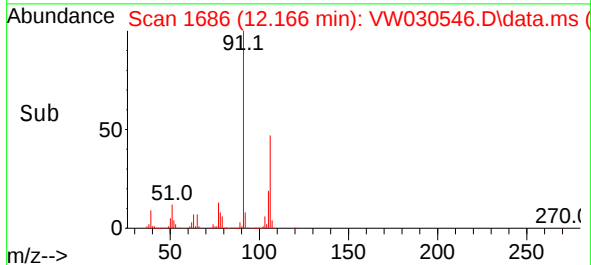
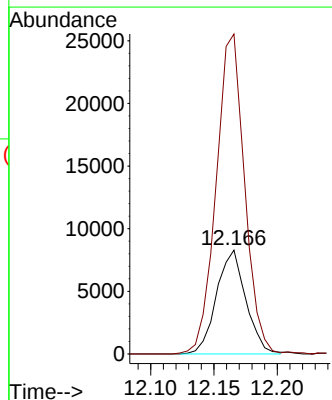
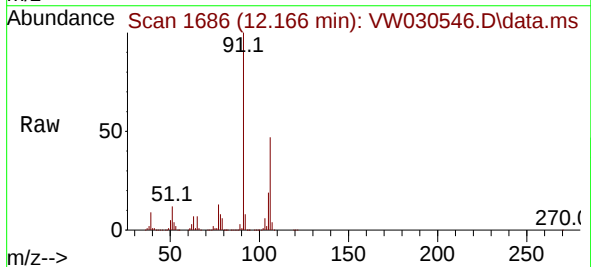
Instrument :
MSVOA_W
ClientSampleId :

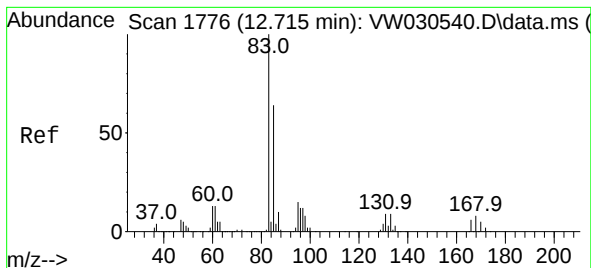
Tgt Ion:106 Resp: 239124
Ion Ratio Lower Upper
106 100
91 211.4 144.5 268.4



#55
Styrene
Concen: 0.981 ug/L
RT: 12.166 min Scan# 1686
Delta R.T. -0.012 min
Lab File: VW030546.D
Acq: 11 Oct 2024 14:02

Tgt Ion:104 Resp: 13385
Ion Ratio Lower Upper
104 100
78 308.2 34.3 63.7#





#57

1,1,2,2-Tetrachloroethane

Concen: 24.890 ug/L

RT: 12.714 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW030546.D

Acq: 11 Oct 2024 14:02

Instrument :

MSVOA_W

ClientSampleId :

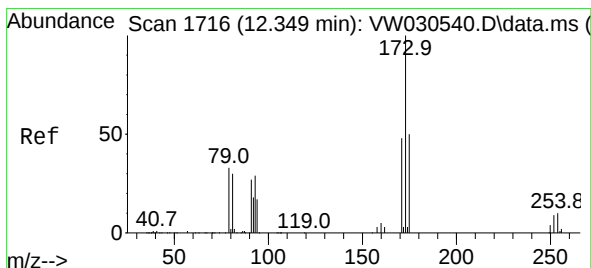
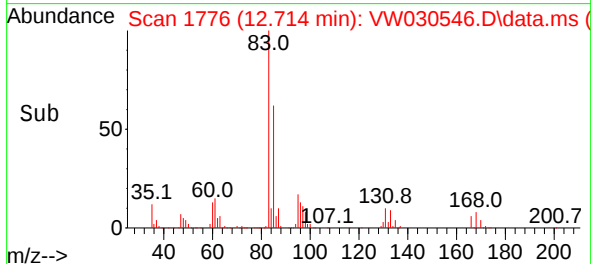
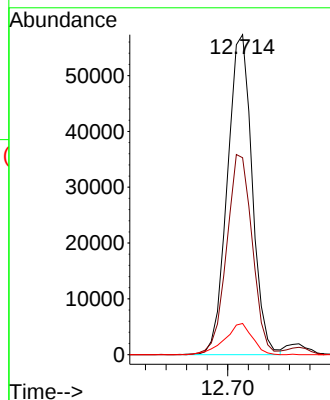
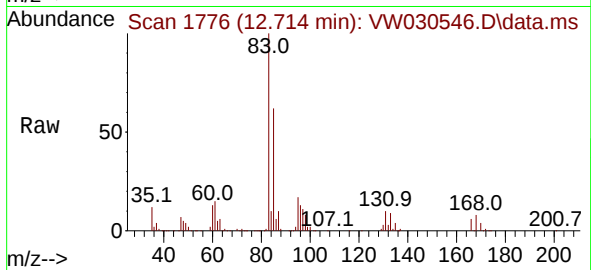
Tgt Ion: 83 Resp: 95882

Ion Ratio Lower Upper

83 100

85 61.5 42.6 79.2

131 9.7 7.4 11.0



#59

Bromoform

Concen: 8.566 ug/L

RT: 12.343 min Scan# 1715

Delta R.T. -0.006 min

Lab File: VW030546.D

Acq: 11 Oct 2024 14:02

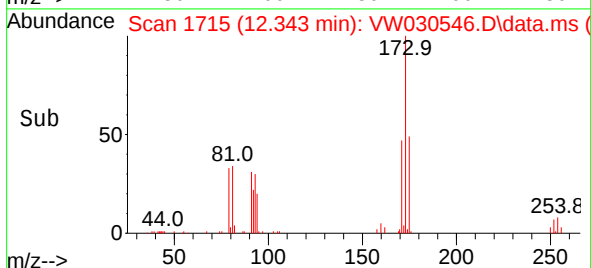
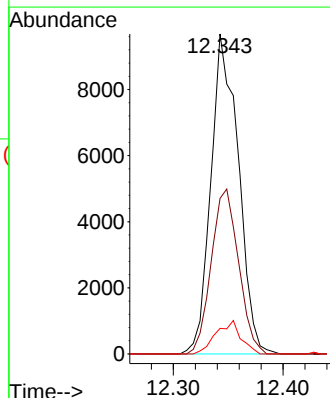
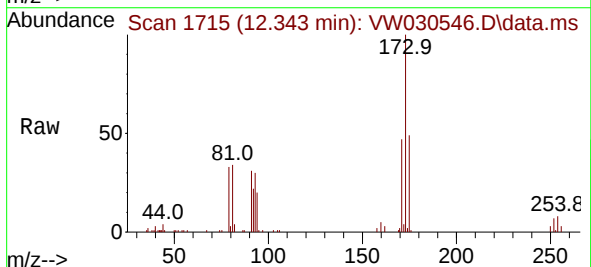
Tgt Ion:173 Resp: 16834

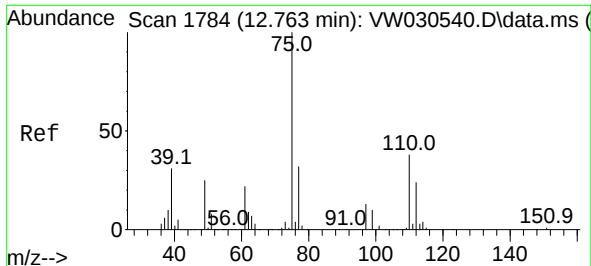
Ion Ratio Lower Upper

173 100

175 51.3 39.0 58.4

254 9.4 7.7 11.5





#61

1,2,3-Trichloropropane

Concen: 39.461 ug/L

RT: 12.769 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW030546.D

Acq: 11 Oct 2024 14:02

Instrument :

MSVOA_W

ClientSampleId :

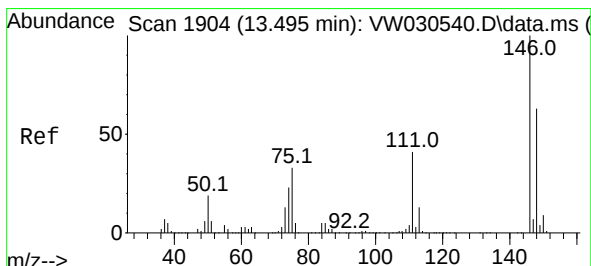
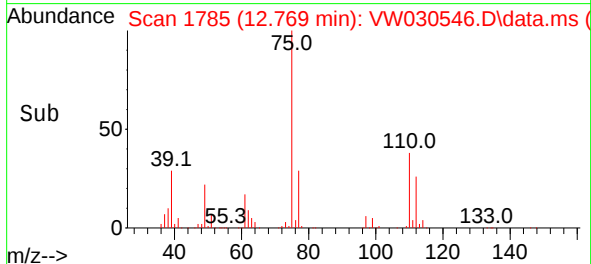
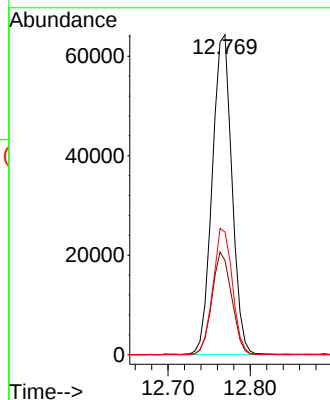
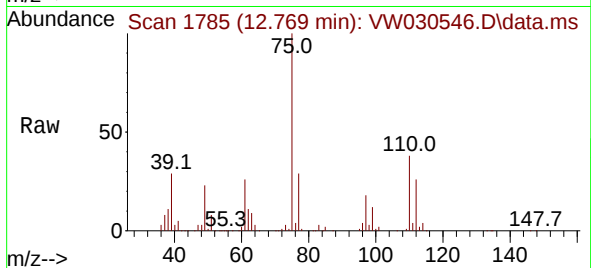
Tgt Ion: 75 Resp: 107412

Ion Ratio Lower Upper

75 100

77 32.1 25.7 38.5

110 38.9 32.3 48.5



#64

1,3-Dichlorobenzene

Concen: 17.446 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. -0.000 min

Lab File: VW030546.D

Acq: 11 Oct 2024 14:02

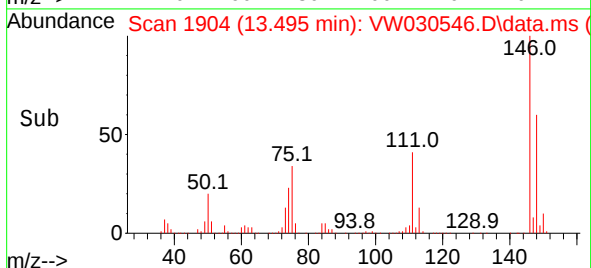
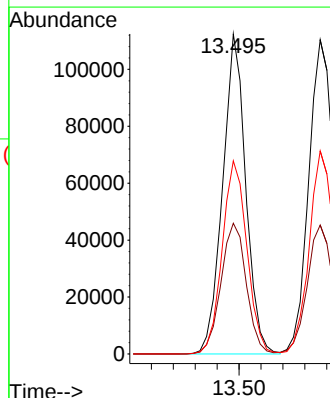
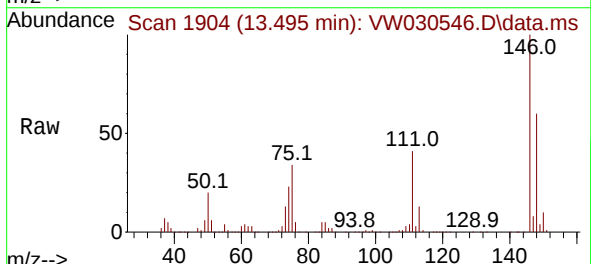
Tgt Ion:146 Resp: 164506

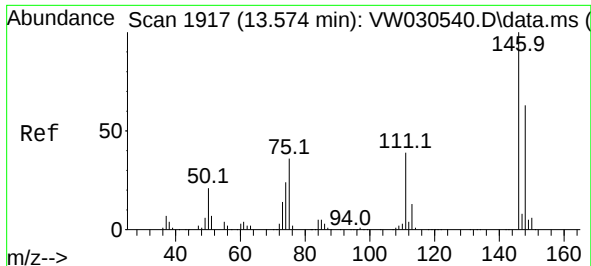
Ion Ratio Lower Upper

146 100

111 40.9 31.2 58.0

148 60.3 45.7 84.9





#65

1,4-Dichlorobenzene

Concen: 18.241 ug/L

RT: 13.574 min Scan# 1917

Delta R.T. -0.000 min

Lab File: VW030546.D

Acq: 11 Oct 2024 14:02

Instrument :

MSVOA_W

ClientSampleId :

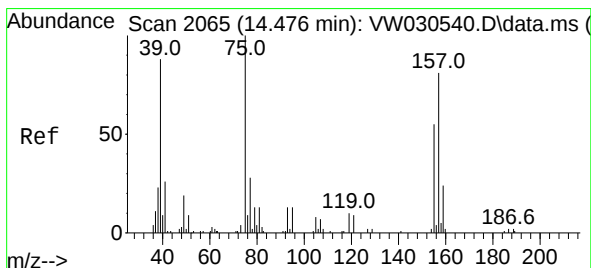
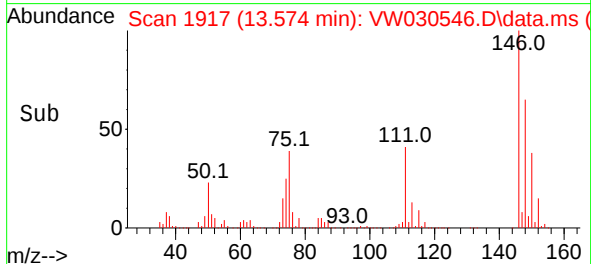
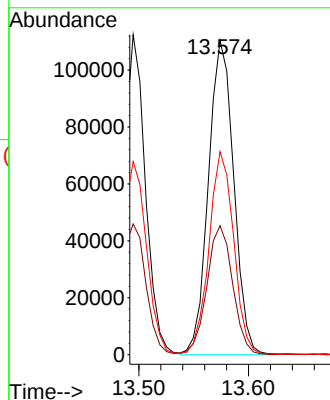
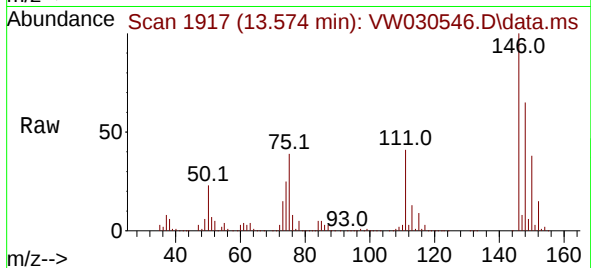
Tgt Ion:146 Resp: 177599

Ion Ratio Lower Upper

146 100

111 41.0 26.8 49.8

148 64.6 41.0 76.2



#68

1,2-Dibromo-3-chloropropane

Concen: 11.263 ug/L

RT: 14.476 min Scan# 2065

Delta R.T. -0.000 min

Lab File: VW030546.D

Acq: 11 Oct 2024 14:02

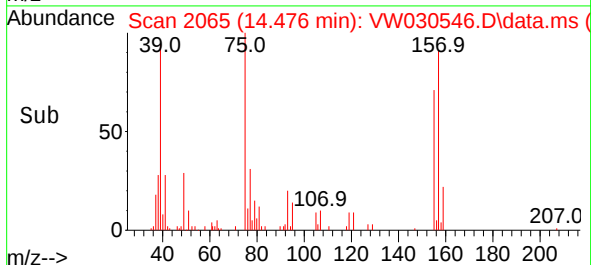
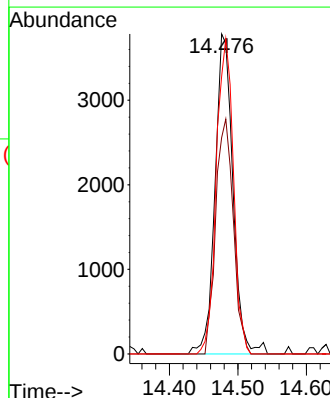
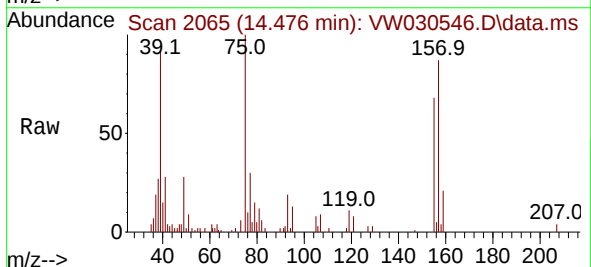
Tgt Ion: 75 Resp: 6836

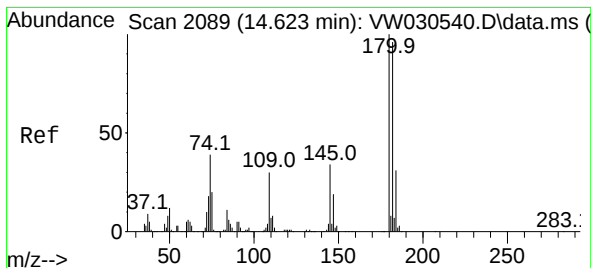
Ion Ratio Lower Upper

75 100

155 67.6 57.9 86.9

157 86.7 69.0 103.6





#69

1,3,5-Trichlorobenzene

Concen: 7.717 ug/L

RT: 15.129 min Scan# 2112

Delta R.T. 0.506 min

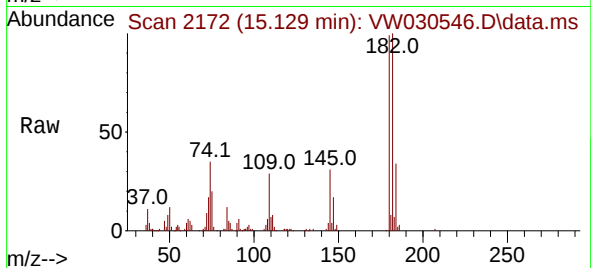
Lab File: VW030546.D

Acq: 11 Oct 2024 14:02

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:180 Resp: 47986

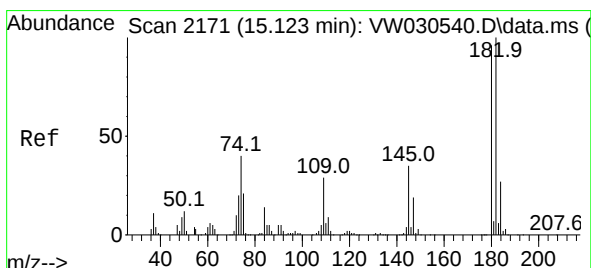
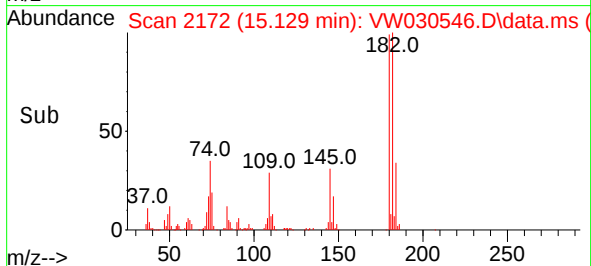
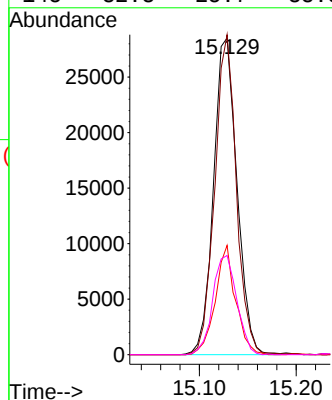
Ion Ratio Lower Upper

180 100

182 92.8 79.9 119.9

184 29.9 25.2 37.8

145 32.3 25.7 38.5



#70

1,2,4-trichlorobenzene

Concen: 9.586 ug/L

RT: 15.129 min Scan# 2172

Delta R.T. 0.006 min

Lab File: VW030546.D

Acq: 11 Oct 2024 14:02

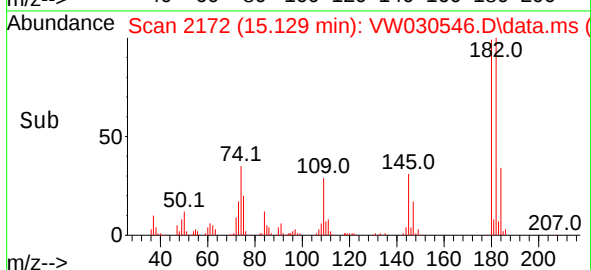
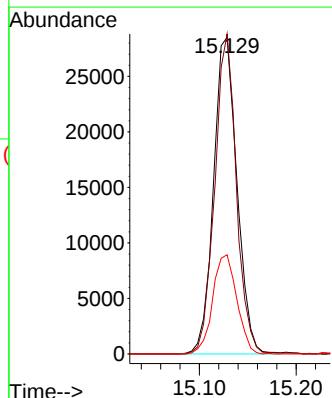
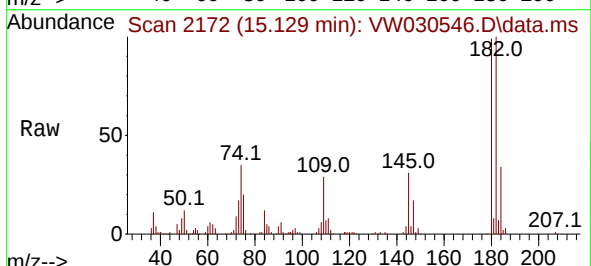
Tgt Ion:180 Resp: 47986

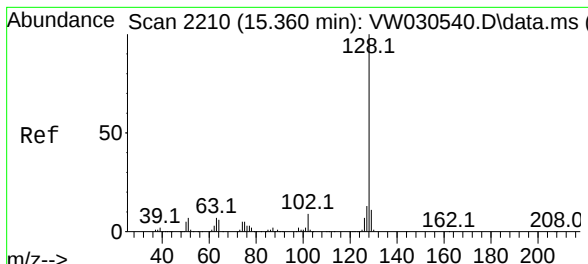
Ion Ratio Lower Upper

180 100

182 92.8 75.2 112.8

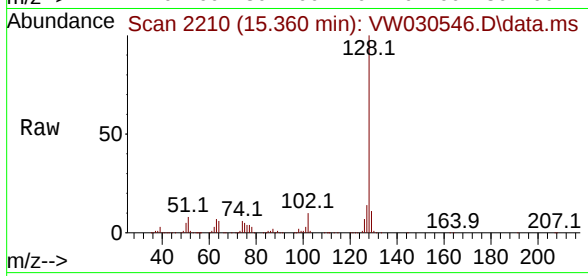
145 32.3 25.4 38.2





#71
 Naphthalene
 Concen: 38.731 ug/L
 RT: 15.360 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VW030546.D
 Acq: 11 Oct 2024 14:02

Instrument :
 MSVOA_W
 ClientSampleId :



Tgt Ion:128 Resp: 334947

Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.9	16.3
129	11.1	8.8	13.2

