

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100224\
 Data File : VW030327.D
 Acq On : 02 Oct 2024 15:21
 Operator : SY/MD
 Sample : P4237-01
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 03 04:11:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM092724SMA.M
 Quant Title : SFAM01.0
 QLast Update : Thu Oct 03 04:10:12 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	169887	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	152370	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	73143	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	37220	28.037	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	112.160%
7) Chloroethane-d5	2.905	69	27749	28.728	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	114.920%
11) 1,1-Dichloroethene-d2	4.021	65	22748	23.475	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	93.880%
21) 2-Butanone-d5	7.075	46	27345	51.221	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	102.440%
24) Chloroform-d	7.655	84	121544	26.631	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	106.520%
26) 1,2-Dichloroethane-d4	8.307	65	58946	24.744	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	98.960%
32) Benzene-d6	8.276	84	197749	23.156	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	92.640%
36) 1,2-Dichloropropane-d6	9.276	67	63620	24.769	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	99.080%
41) Toluene-d8	10.325	98	181679	23.201	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	92.800%
43) trans-1,3-Dichloroprop...	10.575	79	26066	24.398	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	97.600%
47) 2-Hexanone-d5	10.922	63	22733	53.598	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	107.200%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	48898	25.477	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	101.920%
66) 1,2-Dichlorobenzene-d4	13.855	152	55215	22.737	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	90.960%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.052	96	88554	44.866	ug/L #	79
13) Acetone	4.119	43	67751	119.634	ug/L	98
16) Methylene chloride	4.923	84	202208	77.333	ug/L	94
17) trans-1,2-Dichloroethene	5.429	96	70450	30.748	ug/L	95
18) Methyl tert-butyl Ether	5.429	73	162070	44.473	ug/L	98
19) 1,1-Dichloroethane	6.222	63	404474	92.698	ug/L	96
22) 2-Butanone	7.167	43	166078	229.402	ug/L	95
25) Chloroform	7.679	83	413701	91.422	ug/L	97
30) 1,1,1-Trichloroethane	7.874	97	2604	0.738	ug/L #	89
31) Carbon tetrachloride	8.075	117	57576	18.251	ug/L	98
33) Benzene	8.325	78	633584	68.269	ug/L	100
34) Trichloroethene	9.093	95	249214	100.953	ug/L	96
37) 1,2-Dichloropropane	9.368	63	97844	39.958	ug/L	99
39) cis-1,3-Dichloropropene	10.075	75	251202	66.905	ug/L	99
40) 4-Methyl-2-pentanone	10.209	43	215021	170.725	ug/L	98
44) trans-1,3-Dichloropropene	10.605	75	243999	78.429	ug/L	98
45) 1,1,2-Trichloroethane	10.788	97	89018	51.587	ug/L	97
50) 1,2-Dibromoethane	11.239	107	77719	47.599	ug/L	88
53) m,p-Xylene	11.831	106	212573	50.592	ug/L	96

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Response via : Initial Calibration

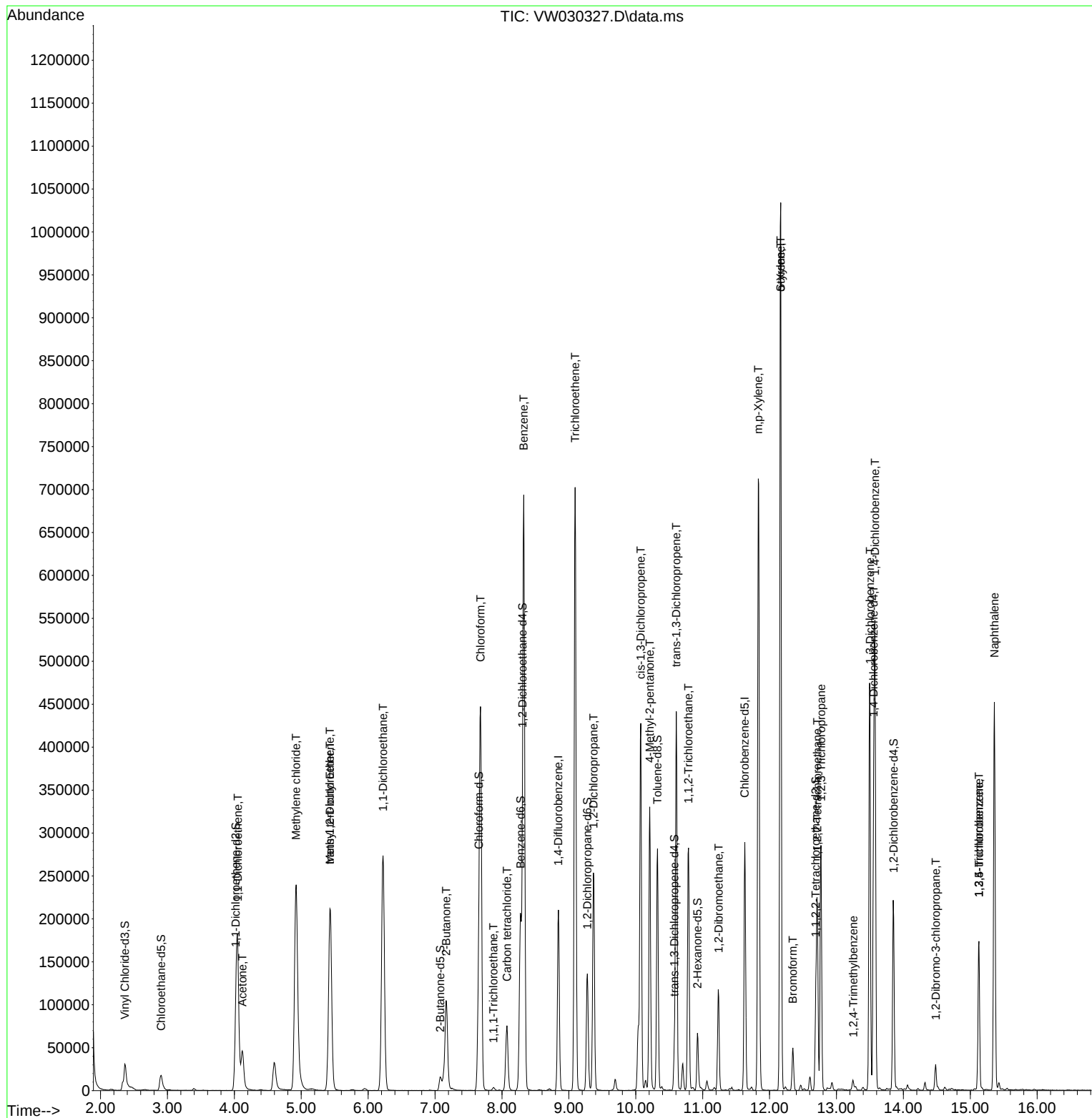
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	12.166	106	263504	65.890	ug/L	92
55) Styrene	12.166	104	14093	2.066	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.715	83	105043	51.977	ug/L	99
59) Bromoform	12.349	173	21040	19.856	ug/L	99
61) 1,2,3-Trichloropropane	12.769	75	120392	86.583	ug/L	99
63) 1,2,4-Trimethylbenzene	13.251	105	3847	0.464	ug/L	92
64) 1,3-Dichlorobenzene	13.501	146	182266	39.285	ug/L	90
65) 1,4-Dichlorobenzene	13.574	146	187986	39.663	ug/L	96
68) 1,2-Dibromo-3-chloropr...	14.483	75	7955	24.969	ug/L #	87
69) 1,3,5-Trichlorobenzene	15.129	180	53123	16.590	ug/L	97
70) 1,2,4-trichlorobenzene	15.129	180	53123	20.037	ug/L	97
71) Naphthalene	15.360	128	366571	75.590	ug/L	99

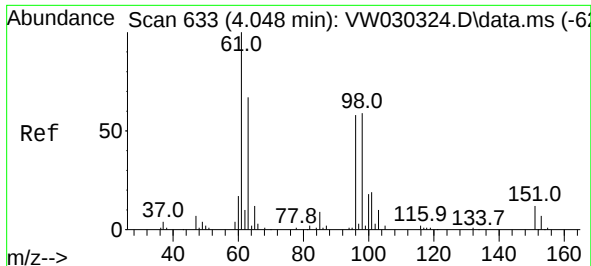
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 44.866 ug/L

RT: 4.052 min Scan# 3

Delta R.T. 0.004 min

Lab File: VW030327.D

Acq: 02 Oct 2024 15:21

Instrument :

MSVOA_W

ClientSampleId :

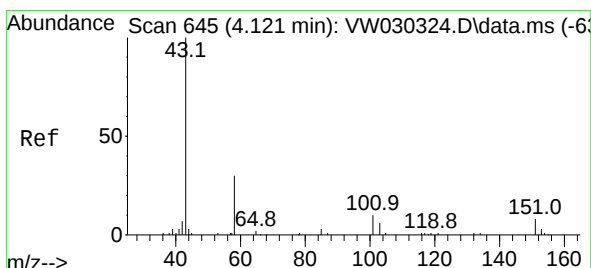
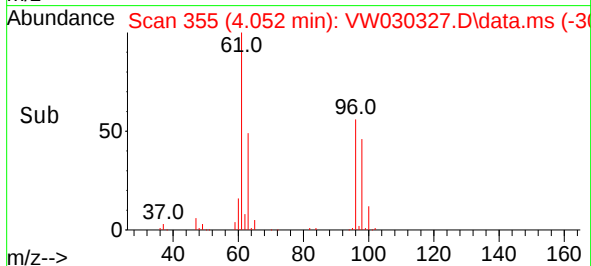
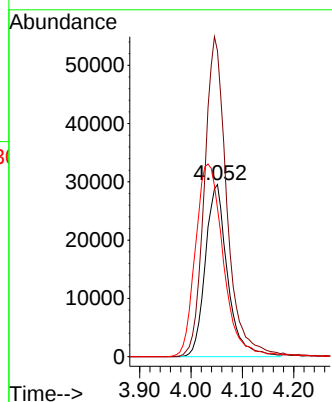
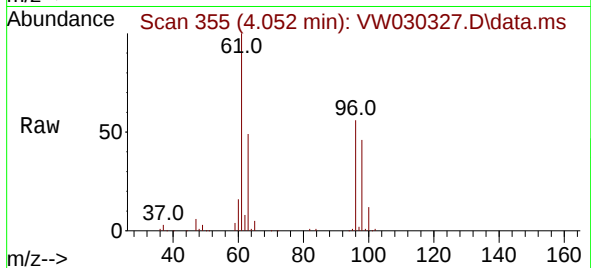
Tgt Ion: 96 Resp: 88554

Ion Ratio Lower Upper

96 100

61 177.7 120.1 223.1

63 86.3 94.8 176.2#



#13

Acetone

Concen: 119.634 ug/L

RT: 4.119 min Scan# 366

Delta R.T. -0.003 min

Lab File: VW030327.D

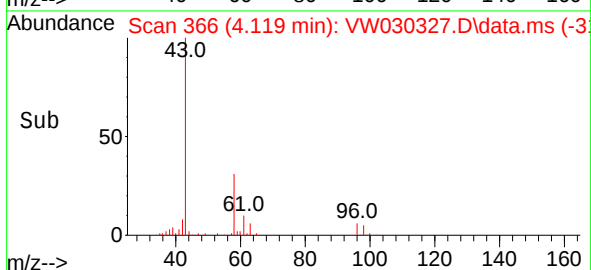
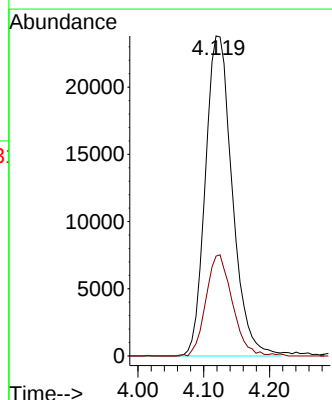
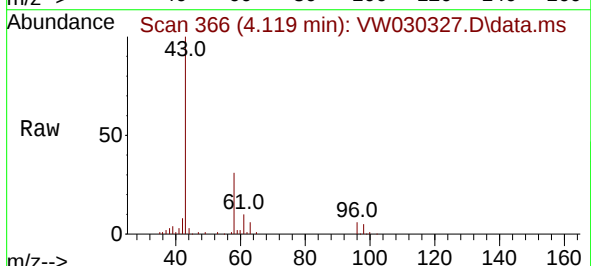
Acq: 02 Oct 2024 15:21

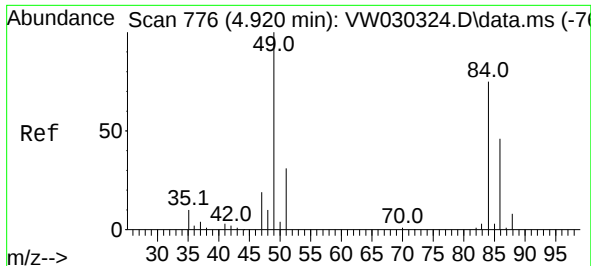
Tgt Ion: 43 Resp: 67751

Ion Ratio Lower Upper

43 100

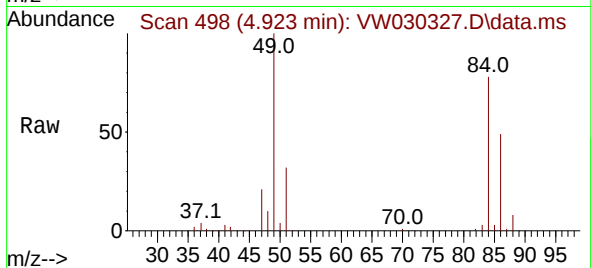
58 30.8 0.0 64.0



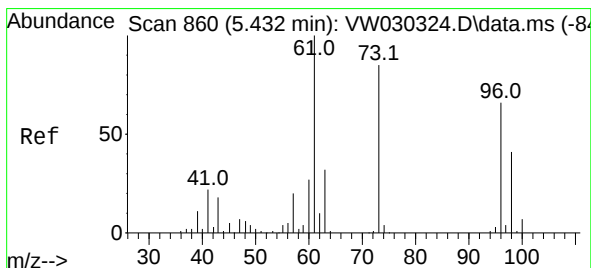
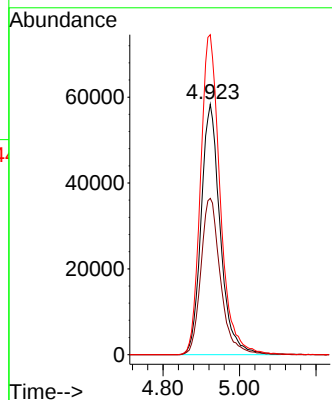
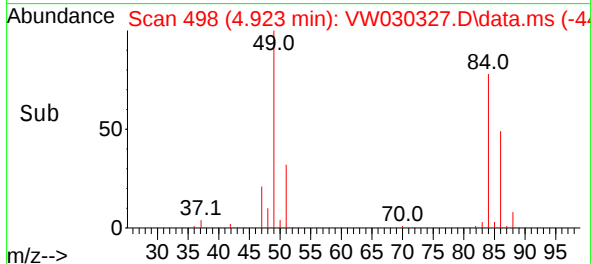


#16
Methylene chloride
Concen: 77.333 ug/L
RT: 4.923 min Scan# 498
Delta R.T. 0.004 min
Lab File: VW030327.D
Acq: 02 Oct 2024 15:21

Instrument :
MSVOA_W
ClientSampleId :

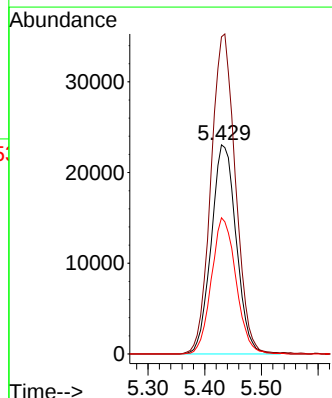
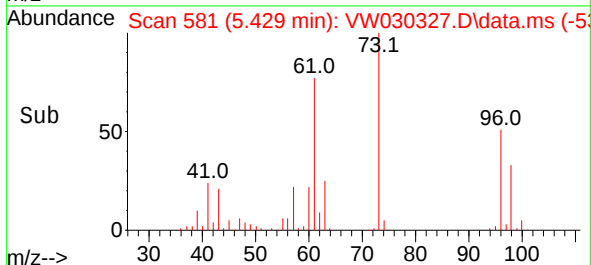
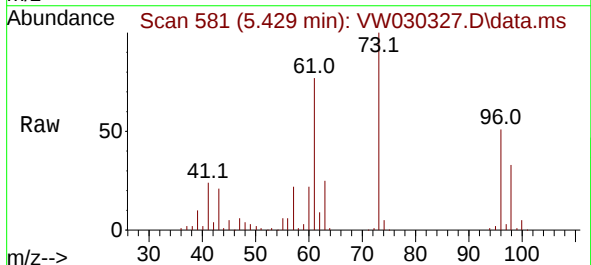


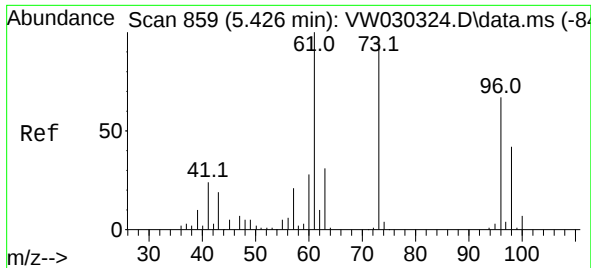
Tgt Ion: 84 Resp: 202208
Ion Ratio Lower Upper
84 100
86 62.4 44.8 83.2
49 127.8 83.6 155.2



#17
trans-1,2-Dichloroethene
Concen: 30.748 ug/L
RT: 5.429 min Scan# 581
Delta R.T. -0.003 min
Lab File: VW030327.D
Acq: 02 Oct 2024 15:21

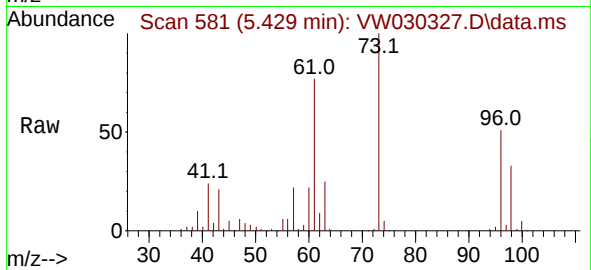
Tgt Ion: 96 Resp: 70450
Ion Ratio Lower Upper
96 100
61 151.7 100.3 186.3
98 65.1 46.3 86.1



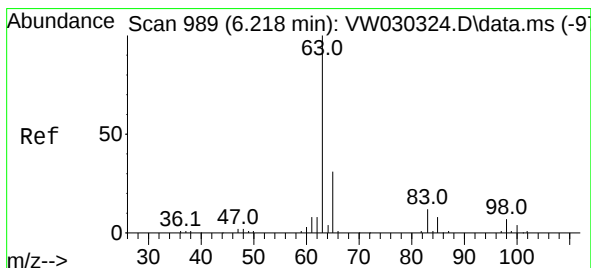
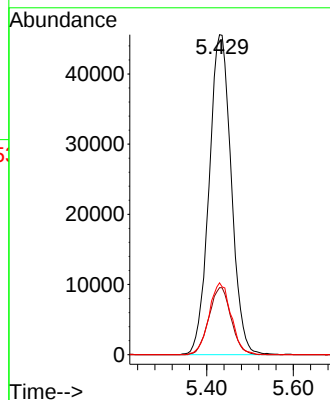
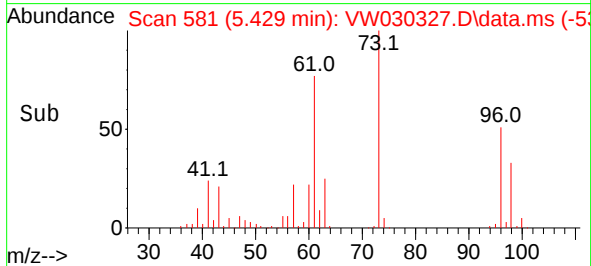


#18
Methyl tert-butyl Ether
Concen: 44.473 ug/L
RT: 5.429 min Scan# 51
Delta R.T. 0.004 min
Lab File: VW030327.D
Acq: 02 Oct 2024 15:21

Instrument :
MSVOA_W
ClientSampleId :

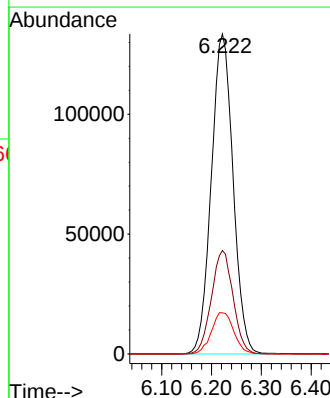
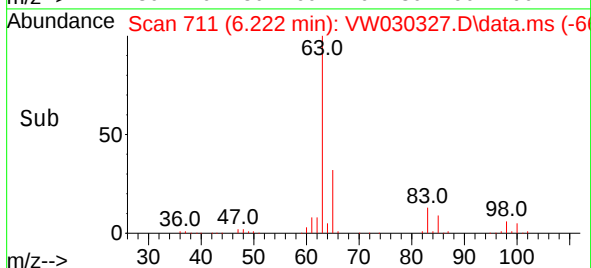
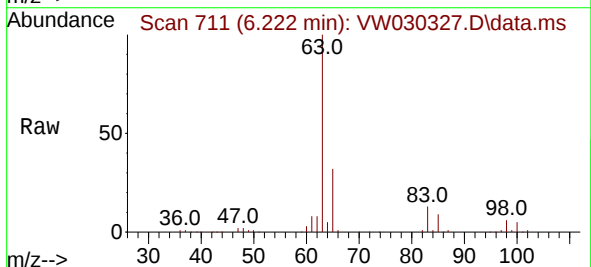


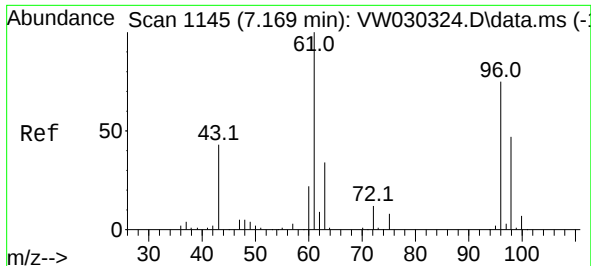
Tgt Ion: 73 Resp: 162070
Ion Ratio Lower Upper
73 100
43 21.0 15.9 23.9
57 22.3 17.6 26.4



#19
1,1-Dichloroethane
Concen: 92.698 ug/L
RT: 6.222 min Scan# 711
Delta R.T. 0.004 min
Lab File: VW030327.D
Acq: 02 Oct 2024 15:21

Tgt Ion: 63 Resp: 404474
Ion Ratio Lower Upper
63 100
65 32.3 20.7 38.5
83 12.9 9.9 18.3





#22

2-Butanone

Concen: 229.402 ug/L

RT: 7.167 min Scan# 80

Delta R.T. -0.003 min

Lab File: VW030327.D

Acq: 02 Oct 2024 15:21

Instrument :

MSVOA_W

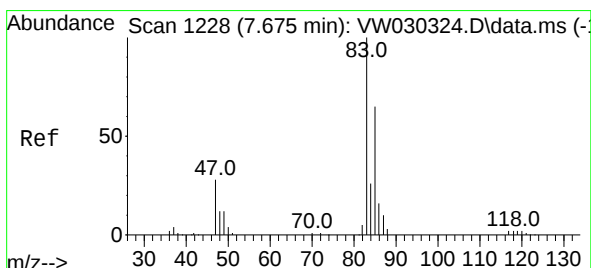
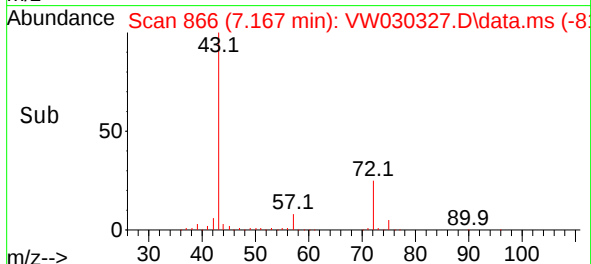
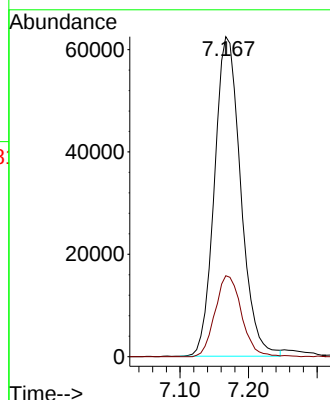
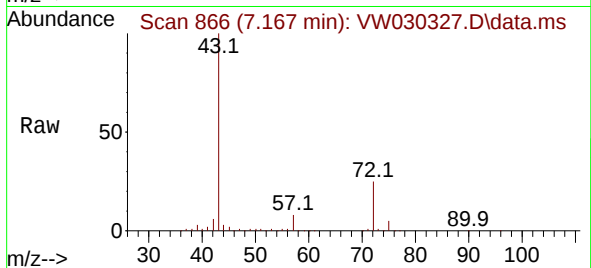
ClientSampleId :

Tgt Ion: 43 Resp: 166078

Ion Ratio Lower Upper

43 100

72 25.4 14.1 42.3



#25

Chloroform

Concen: 91.422 ug/L

RT: 7.679 min Scan# 950

Delta R.T. 0.004 min

Lab File: VW030327.D

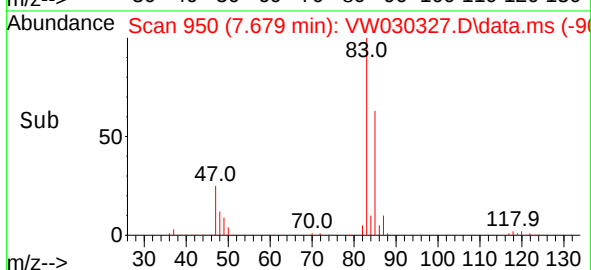
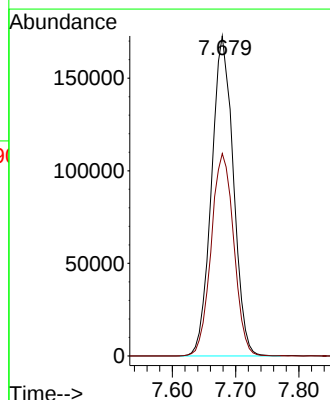
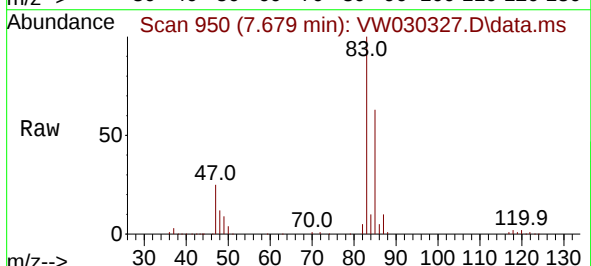
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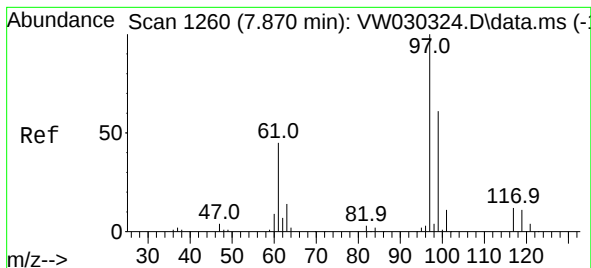
Tgt Ion: 83 Resp: 413701

Ion Ratio Lower Upper

83 100

85 63.2 45.8 85.0





#30

1,1,1-Trichloroethane

Concen: 0.738 ug/L

RT: 7.874 min Scan# 91

Delta R.T. 0.004 min

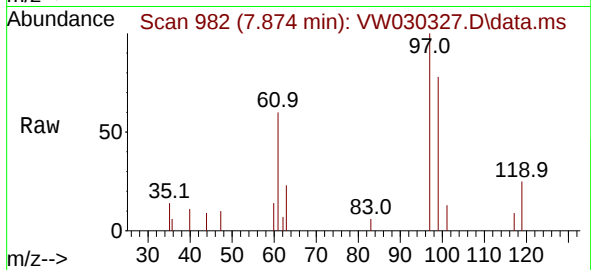
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Instrument :

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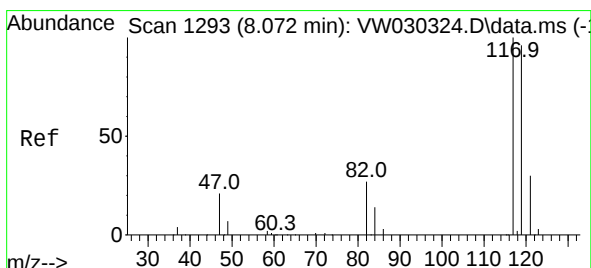
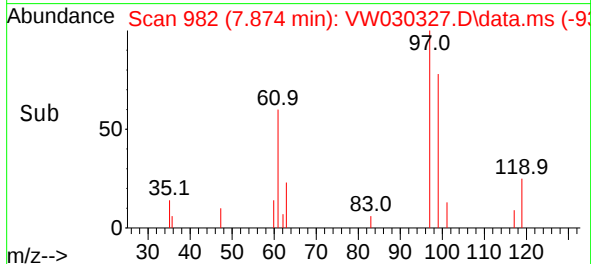
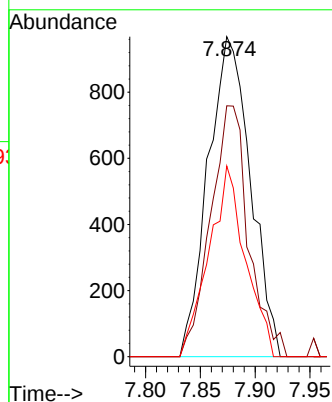
Tgt Ion: 97 Resp: 2604

Ion Ratio Lower Upper

97 100

99 70.4 50.9 76.3

61 51.3 34.1 51.1#



#31

Carbon tetrachloride

Concen: 18.251 ug/L

RT: 8.075 min Scan# 1015

Delta R.T. 0.004 min

Lab File: VW030327.D

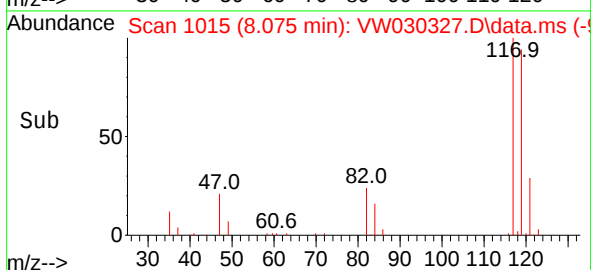
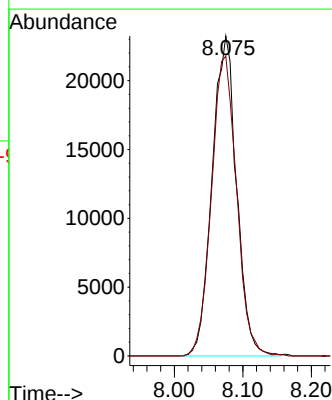
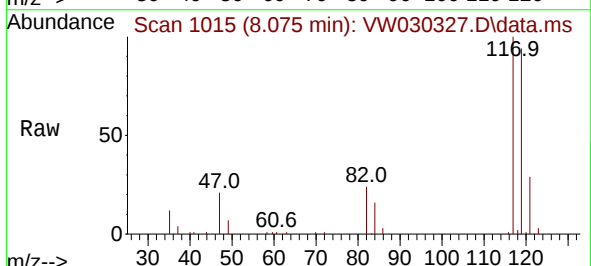
Acq: 02 Oct 2024 15:21

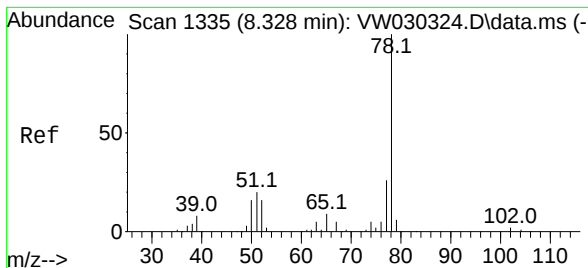
Tgt Ion: 117 Resp: 57576

Ion Ratio Lower Upper

117 100

119 96.1 75.5 113.3





#33

Benzene

Concen: 68.269 ug/L

RT: 8.325 min Scan# 1182

Delta R.T. -0.003 min

Lab File: VW030327.D

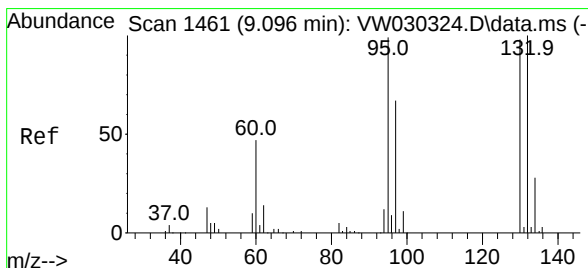
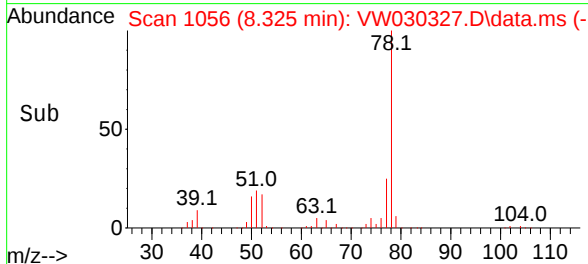
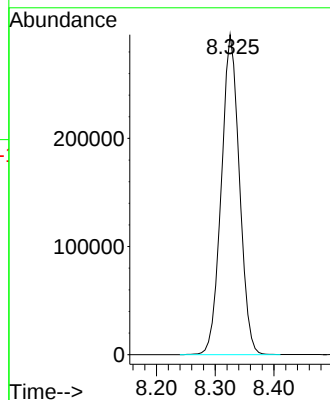
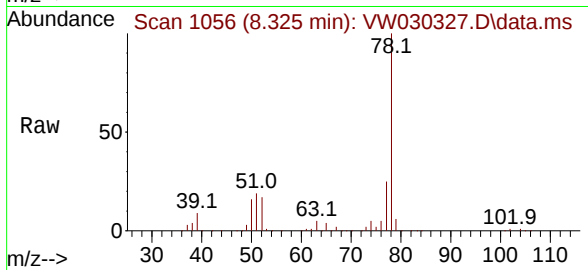
Acq: 02 Oct 2024 15:21

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 78 Resp: 633584



#34

Trichloroethene

Concen: 100.953 ug/L

RT: 9.093 min Scan# 1182

Delta R.T. -0.003 min

Lab File: VW030327.D

Acq: 02 Oct 2024 15:21

Tgt Ion: 95 Resp: 249214

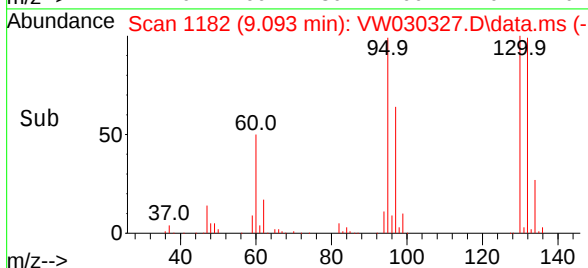
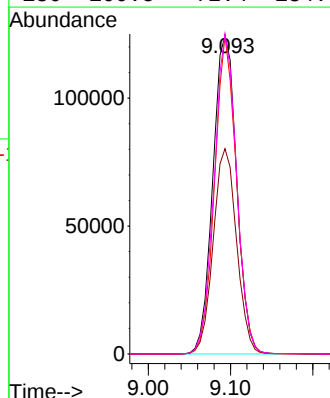
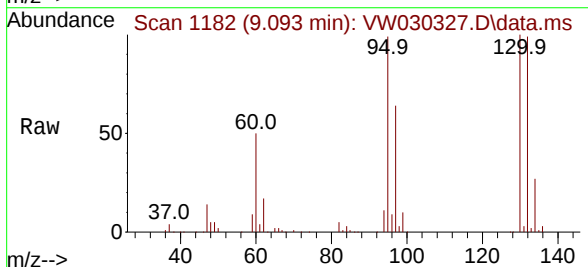
Ion Ratio Lower Upper

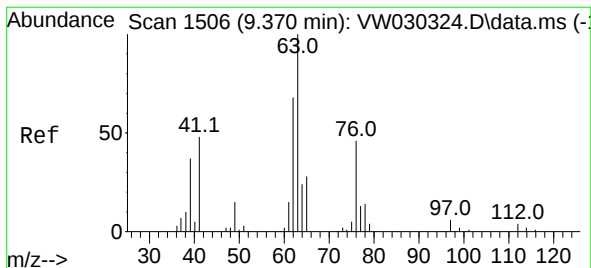
95 100

97 64.5 47.5 88.1

132 99.9 66.7 123.9

130 100.5 72.4 134.5





#37

1,2-Dichloropropane

Concen: 39.958 ug/L

RT: 9.368 min Scan# 11

Delta R.T. -0.003 min

Lab File: VW030327.D

Acq: 02 Oct 2024 15:21

Instrument :

MSVOA_W

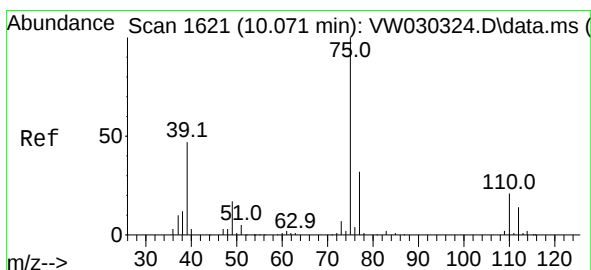
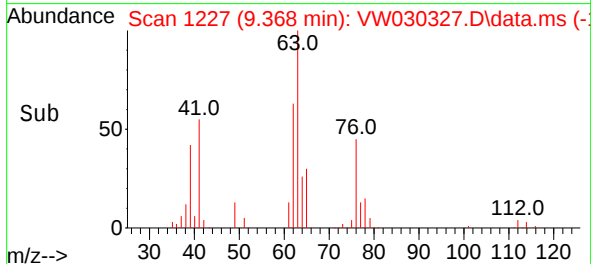
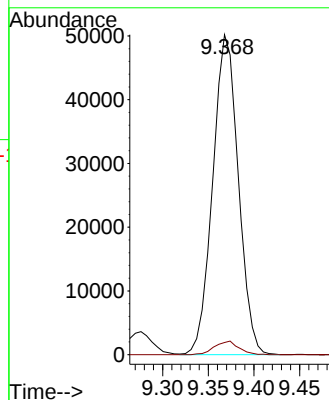
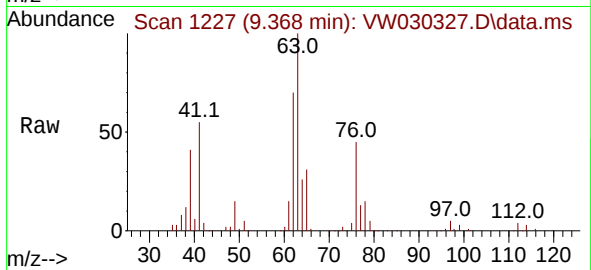
ClientSampleId :

Tgt Ion: 63 Resp: 97844

Ion Ratio Lower Upper

63 100

112 4.0 3.4 5.2



#39

cis-1,3-Dichloropropene

Concen: 66.905 ug/L

RT: 10.075 min Scan# 1343

Delta R.T. 0.004 min

Lab File: VW030327.D

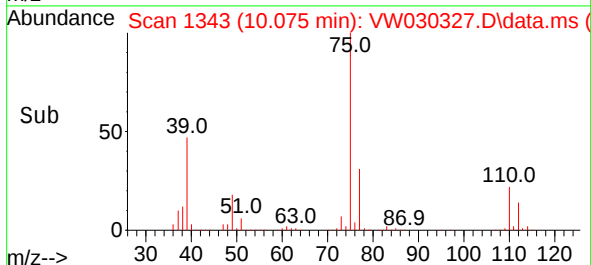
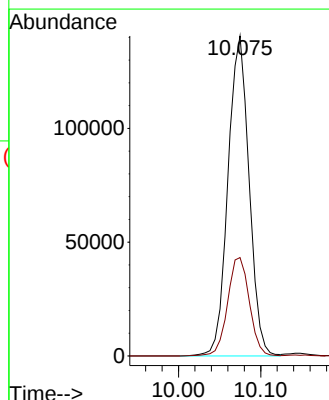
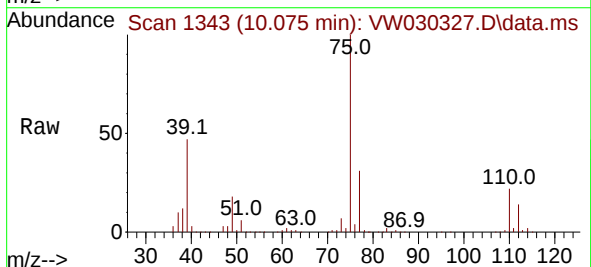
Acq: 02 Oct 2024 15:21

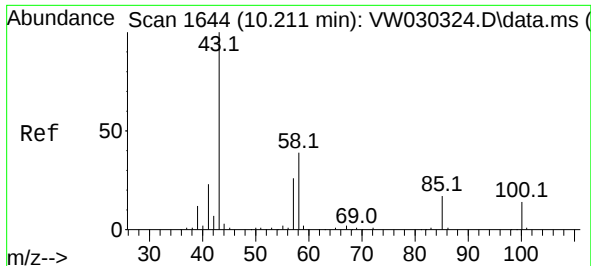
Tgt Ion: 75 Resp: 251202

Ion Ratio Lower Upper

75 100

77 30.8 22.0 40.8





#40

4-Methyl-2-pentanone

Concen: 170.725 ug/L

RT: 10.209 min Scan# 14

Delta R.T. -0.003 min

Lab File: VW030327.D

Acq: 02 Oct 2024 15:21

Instrument :

MSVOA_W

ClientSampleId :

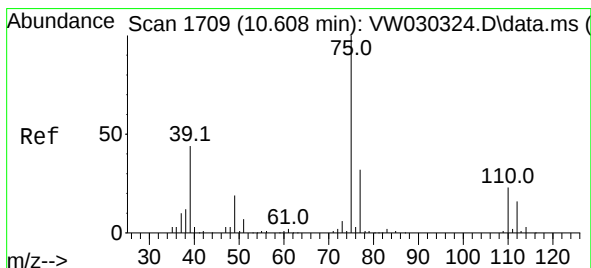
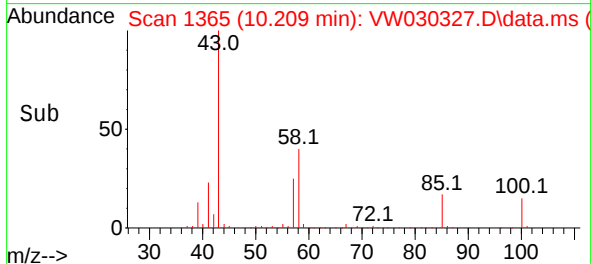
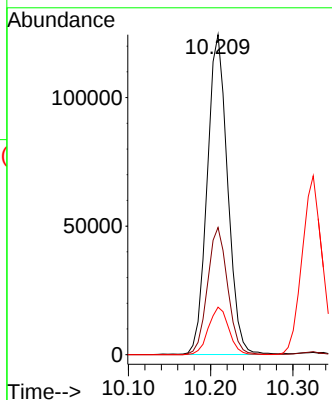
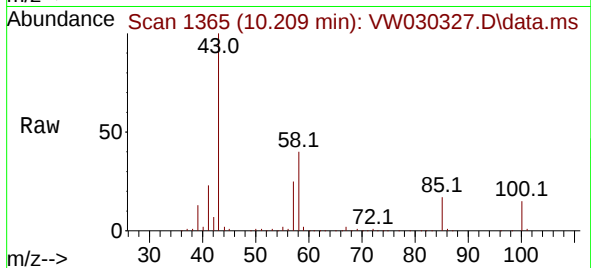
Tgt Ion: 43 Resp: 215021

Ion Ratio Lower Upper

43 100

58 39.3 32.6 48.8

100 14.8 12.5 18.7



#44

trans-1,3-Dichloropropene

Concen: 78.429 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. -0.003 min

Lab File: VW030327.D

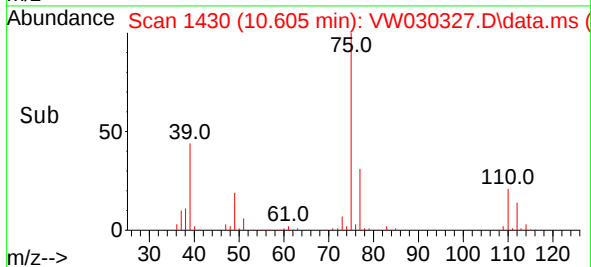
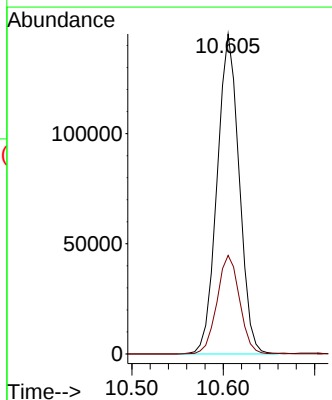
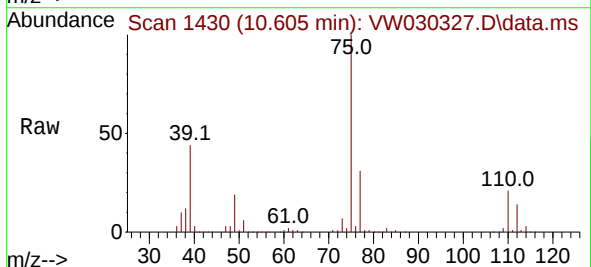
Acq: 02 Oct 2024 15:21

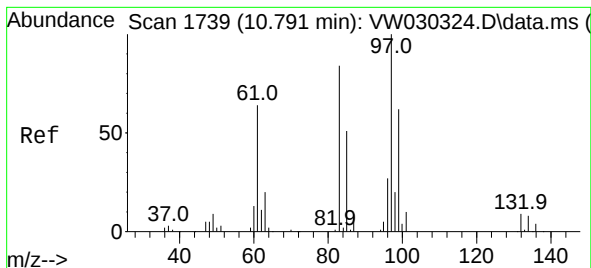
Tgt Ion: 75 Resp: 243999

Ion Ratio Lower Upper

75 100

77 30.8 20.8 38.6





#45

1,1,2-Trichloroethane

Concen: 51.587 ug/L

RT: 10.788 min Scan# 1460

Delta R.T. -0.003 min

Lab File: VW030327.D

Acq: 02 Oct 2024 15:21

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 97 Resp: 89018

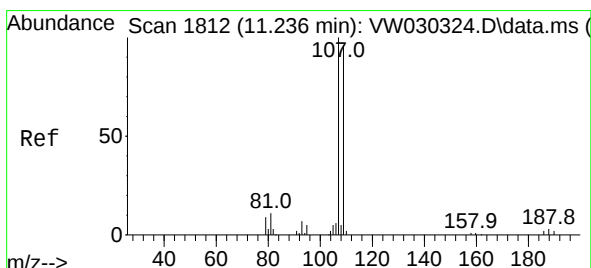
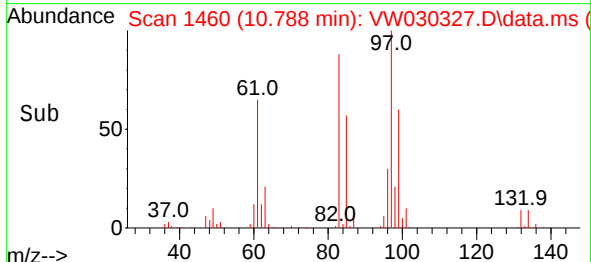
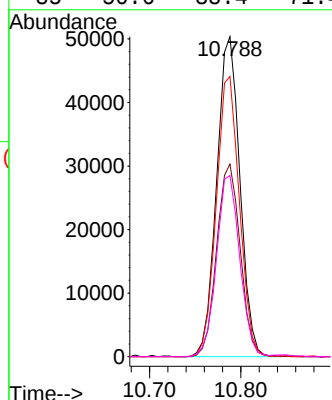
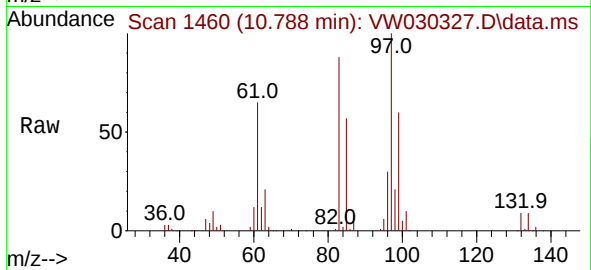
Ion Ratio Lower Upper

97 100

99 60.2 40.8 75.8

83 87.5 59.1 109.7

85 56.6 38.4 71.4



#50

1,2-Dibromoethane

Concen: 47.599 ug/L

RT: 11.239 min Scan# 1534

Delta R.T. 0.004 min

Lab File: VW030327.D

Acq: 02 Oct 2024 15:21

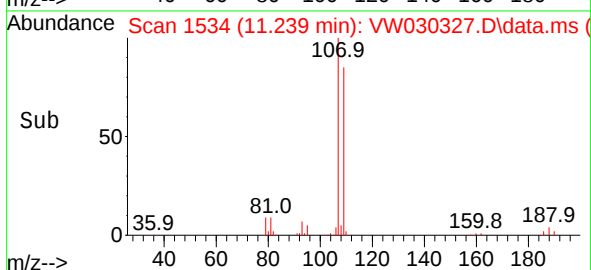
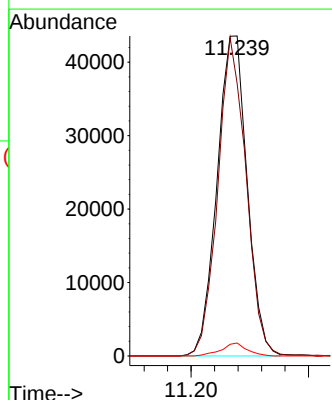
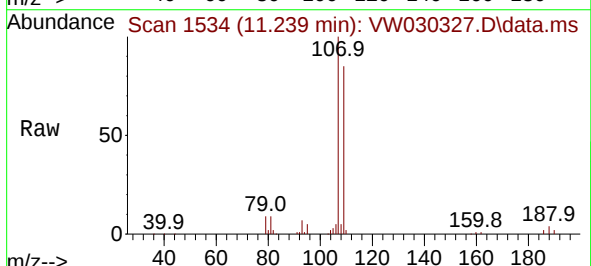
Tgt Ion:107 Resp: 77719

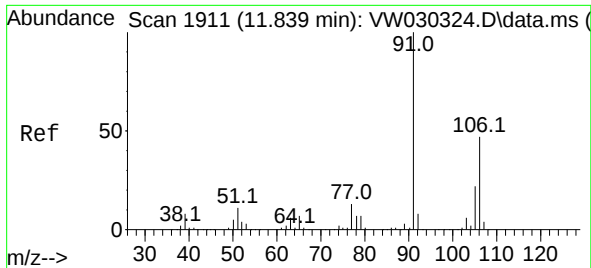
Ion Ratio Lower Upper

107 100

109 85.1 67.8 125.8

188 4.0 2.9 4.3

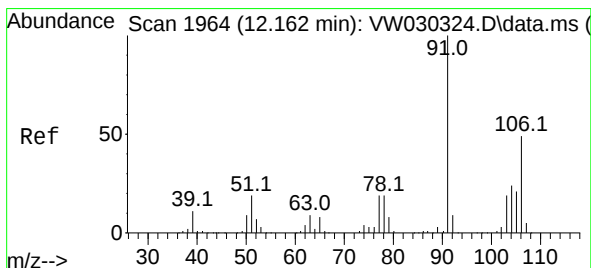
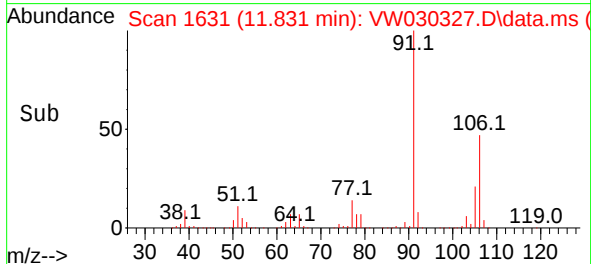
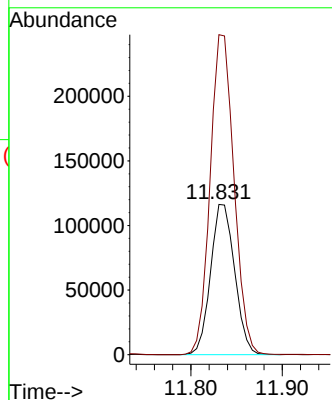
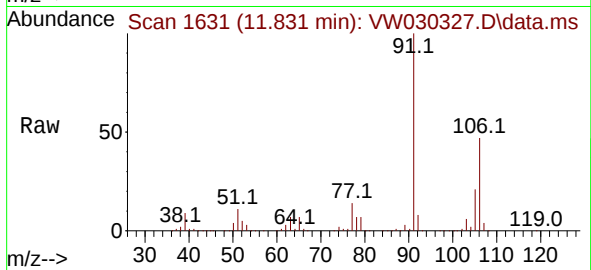




#53
m,p-Xylene
Concen: 50.592 ug/L
RT: 11.831 min Scan# 1
Delta R.T. -0.009 min
Lab File: VW030327.D
Acq: 02 Oct 2024 15:21

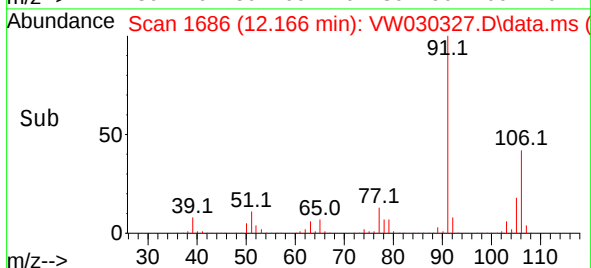
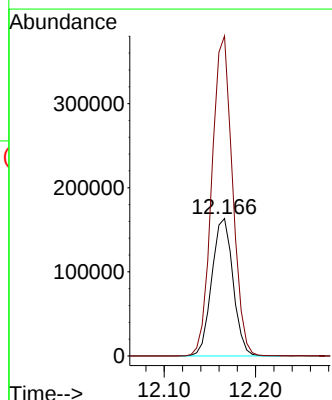
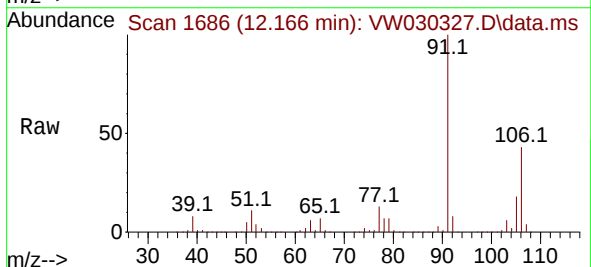
Instrument :
MSVOA_W
ClientSampleId :

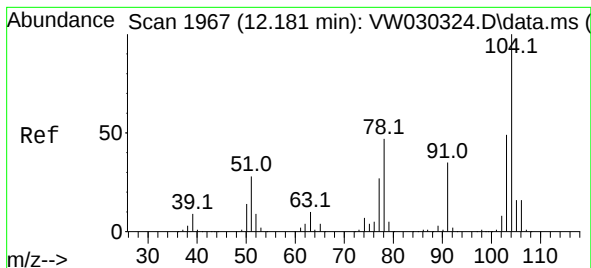
Tgt Ion:106 Resp: 212573
Ion Ratio Lower Upper
106 100
91 212.9 144.4 268.2



#54
o-Xylene
Concen: 65.890 ug/L
RT: 12.166 min Scan# 1686
Delta R.T. 0.004 min
Lab File: VW030327.D
Acq: 02 Oct 2024 15:21

Tgt Ion:106 Resp: 263504
Ion Ratio Lower Upper
106 100
91 232.7 153.6 285.2





#55

Styrene

Concen: 2.066 ug/L

RT: 12.166 min Scan# 1

Delta R.T. -0.015 min

Lab File: VW030327.D

Acq: 02 Oct 2024 15:21

Instrument :

MSVOA_W

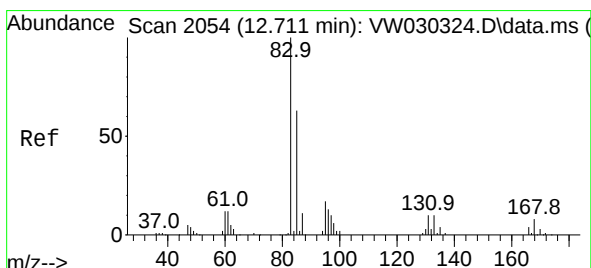
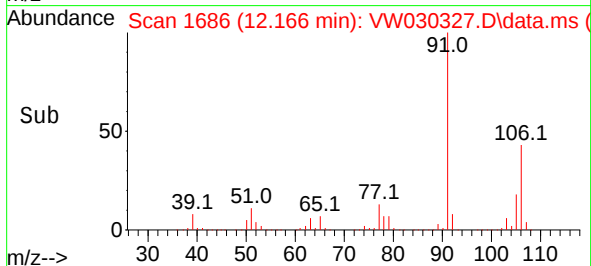
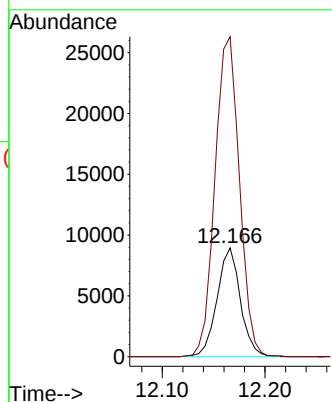
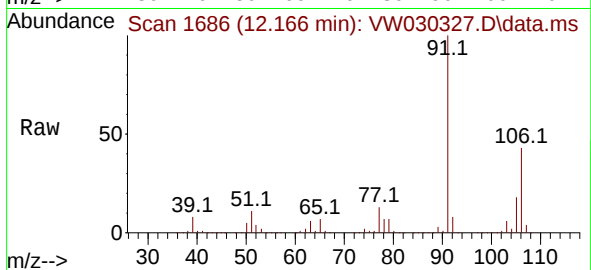
ClientSampleId :

Tgt Ion:104 Resp: 14093

Ion Ratio Lower Upper

104 100

78 294.0 34.6 64.3#



#57

1,1,2,2-Tetrachloroethane

Concen: 51.977 ug/L

RT: 12.715 min Scan# 1776

Delta R.T. 0.004 min

Lab File: VW030327.D

Acq: 02 Oct 2024 15:21

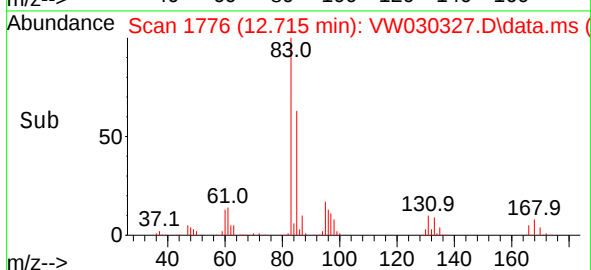
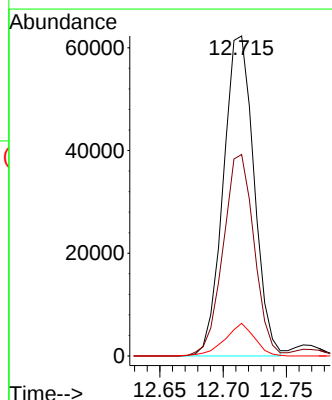
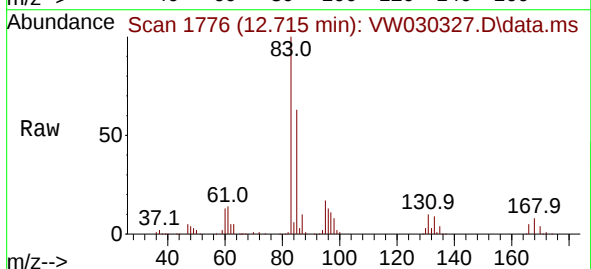
Tgt Ion: 83 Resp: 105043

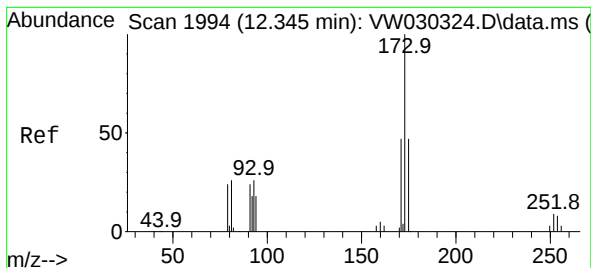
Ion Ratio Lower Upper

83 100

85 63.0 43.9 81.5

131 10.2 7.1 10.7





#59

Bromoform

Concen: 19.856 ug/L

RT: 12.349 min Scan# 1

Delta R.T. 0.004 min

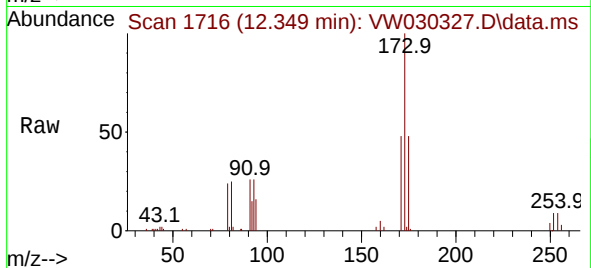
Lab File: VW030327.D

Acq: 02 Oct 2024 15:21

Instrument :

MSVOA_W

ClientSampleId :



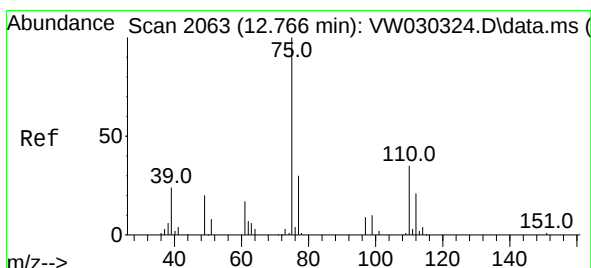
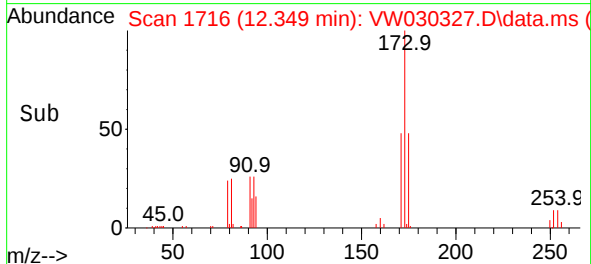
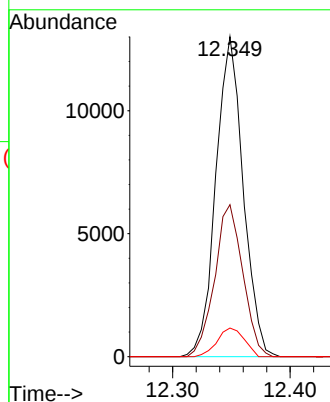
Tgt Ion:173 Resp: 21040

Ion Ratio Lower Upper

173 100

175 48.8 38.7 58.1

254 8.9 7.4 11.2



#61

1,2,3-Trichloropropane

Concen: 86.583 ug/L

RT: 12.769 min Scan# 1785

Delta R.T. 0.004 min

Lab File: VW030327.D

Acq: 02 Oct 2024 15:21

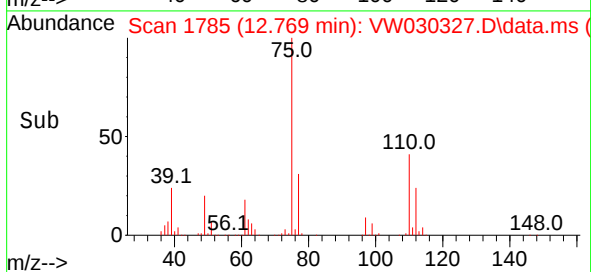
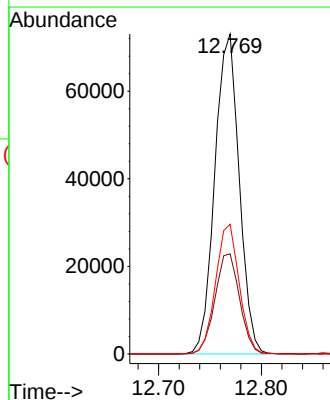
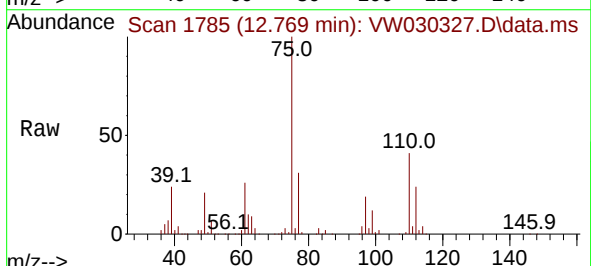
Tgt Ion: 75 Resp: 120392

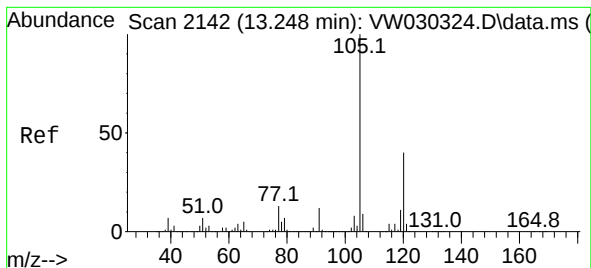
Ion Ratio Lower Upper

75 100

77 31.8 25.4 38.2

110 39.3 30.8 46.2





#63

1,2,4-Trimethylbenzene

Concen: 0.464 ug/L

RT: 13.251 min Scan# 11

Delta R.T. 0.004 min

Lab File: VW030327.D

Acq: 02 Oct 2024 15:21

Instrument :

MSVOA_W

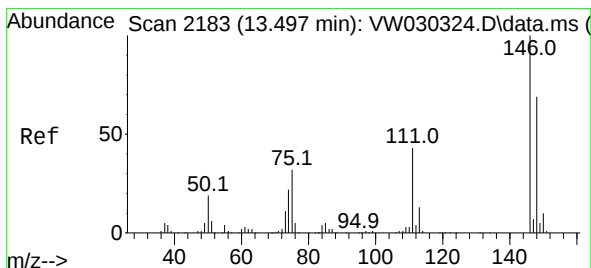
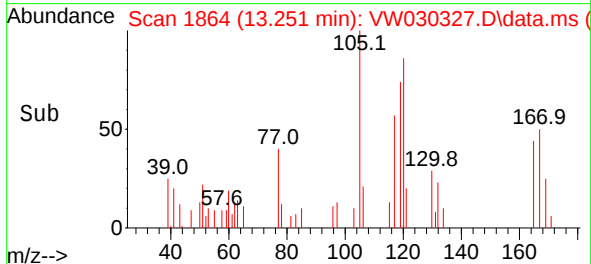
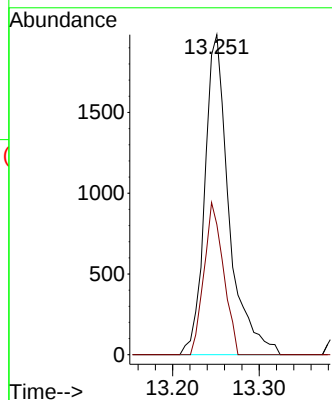
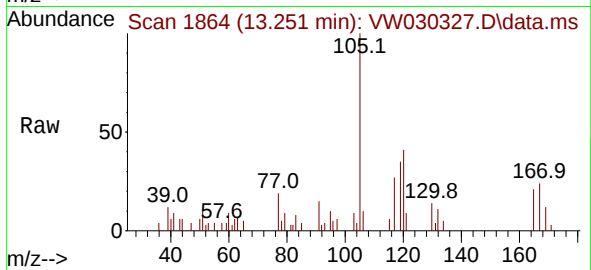
ClientSampleId :

Tgt Ion:105 Resp: 3847

Ion Ratio Lower Upper

105 100

120 38.0 34.4 51.6



#64

1,3-Dichlorobenzene

Concen: 39.285 ug/L

RT: 13.501 min Scan# 1905

Delta R.T. 0.004 min

Lab File: VW030327.D

Acq: 02 Oct 2024 15:21

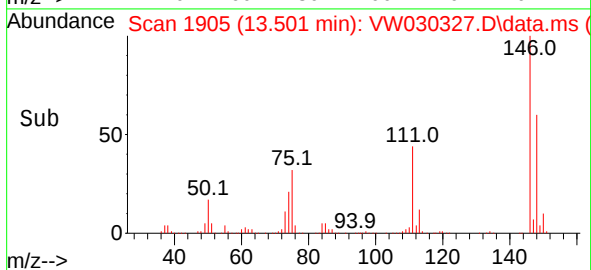
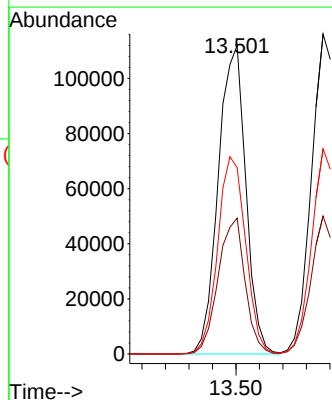
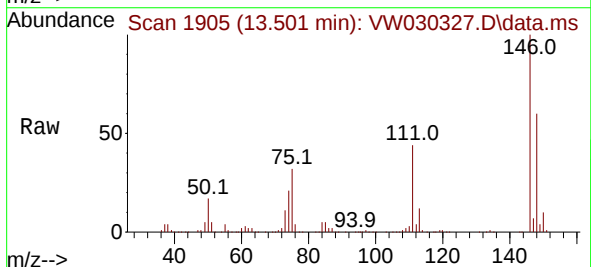
Tgt Ion:146 Resp: 182266

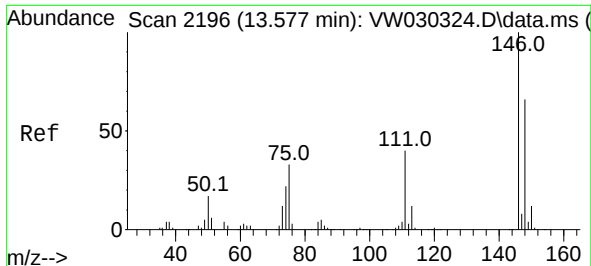
Ion Ratio Lower Upper

146 100

111 44.0 33.2 61.6

148 60.3 50.4 93.6





#65

1,4-Dichlorobenzene

Concen: 39.663 ug/L

RT: 13.574 min Scan# 1

Delta R.T. -0.003 min

Lab File: VW030327.D

Acq: 02 Oct 2024 15:21

Instrument :

MSVOA_W

ClientSampleId :

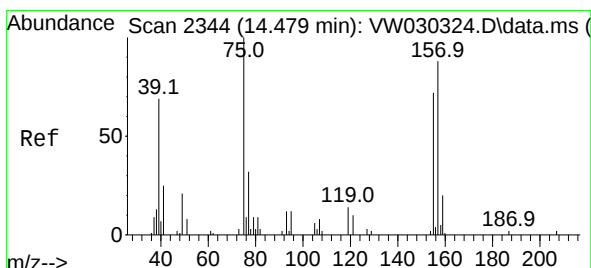
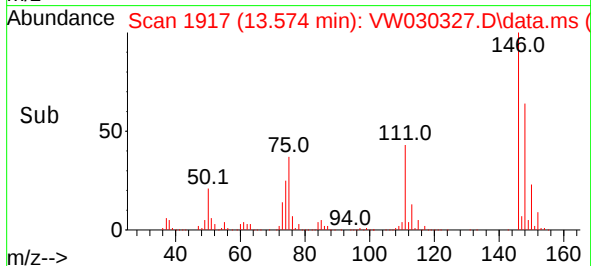
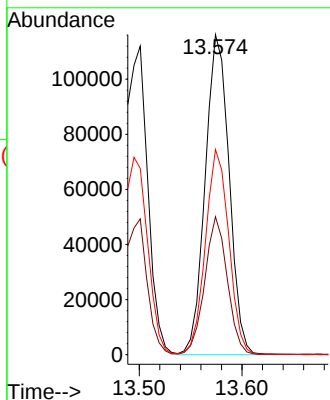
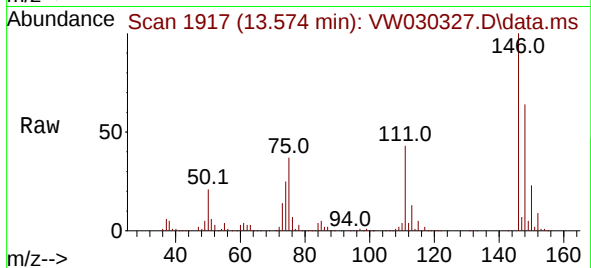
Tgt Ion:146 Resp: 187986

Ion Ratio Lower Upper

146 100

111 43.1 29.1 54.1

148 64.1 42.1 78.1



#68

1,2-Dibromo-3-chloropropane

Concen: 24.969 ug/L

RT: 14.483 min Scan# 2066

Delta R.T. 0.004 min

Lab File: VW030327.D

Acq: 02 Oct 2024 15:21

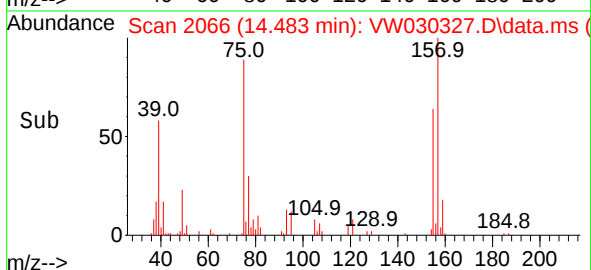
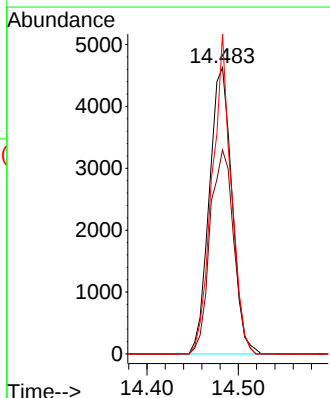
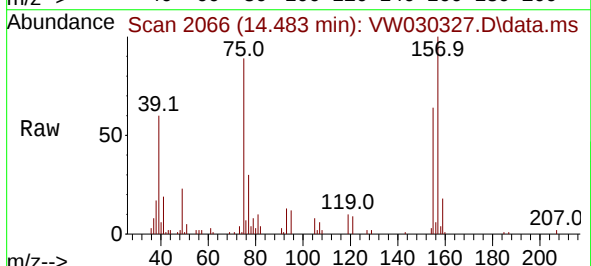
Tgt Ion: 75 Resp: 7955

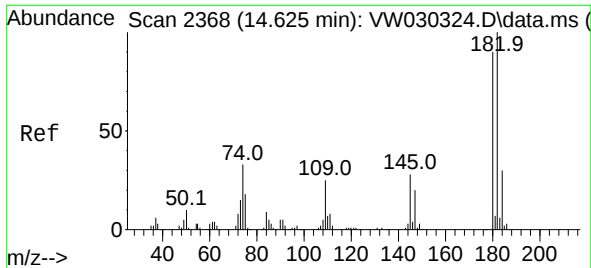
Ion Ratio Lower Upper

75 100

155 71.2 60.1 90.1

157 111.7 74.3 111.5#





#69

1,3,5-Trichlorobenzene

Concen: 16.590 ug/L

RT: 15.129 min Scan# 2172

Delta R.T. 0.503 min

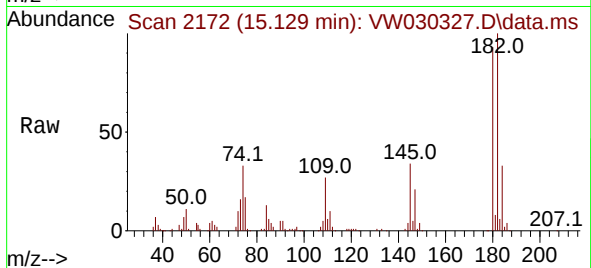
Lab File: VW030327.D

Acq: 02 Oct 2024 15:21

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:180 Resp: 53123

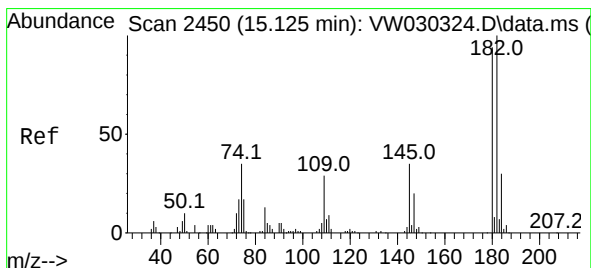
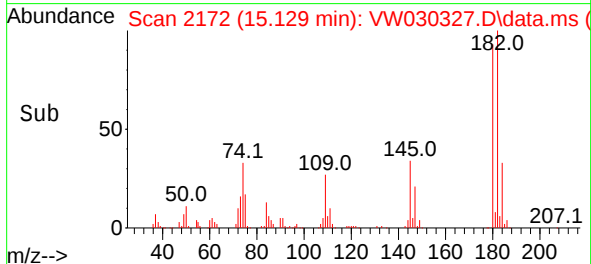
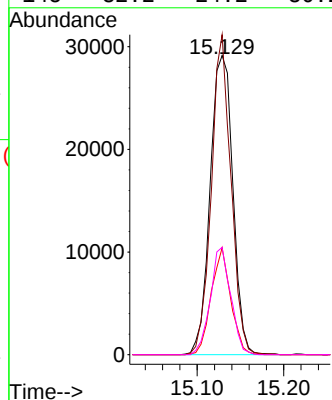
Ion Ratio Lower Upper

180 100

182 92.4 77.4 116.2

184 30.7 24.5 36.7

145 32.2 24.2 36.2



#70

1,2,4-trichlorobenzene

Concen: 20.037 ug/L

RT: 15.129 min Scan# 2172

Delta R.T. 0.004 min

Lab File: VW030327.D

Acq: 02 Oct 2024 15:21

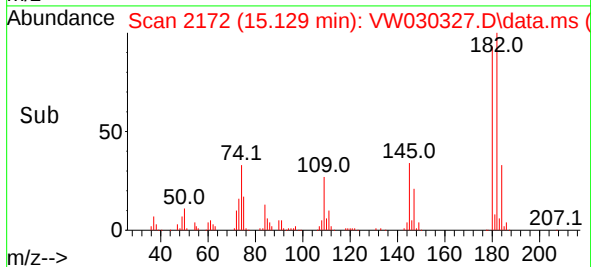
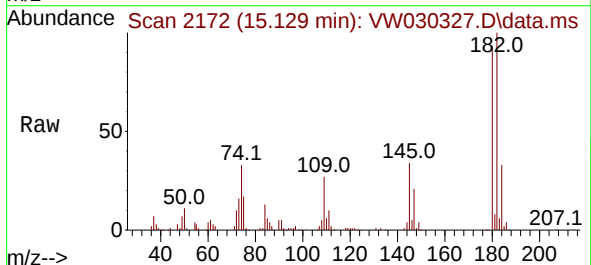
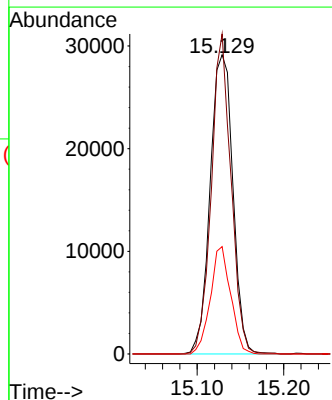
Tgt Ion:180 Resp: 53123

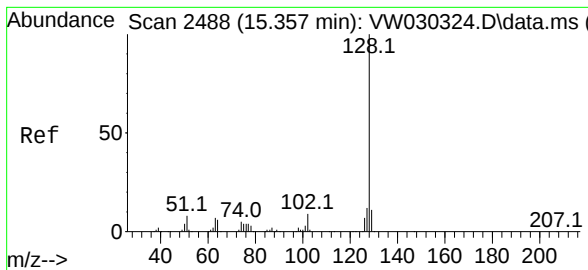
Ion Ratio Lower Upper

180 100

182 92.4 77.2 115.8

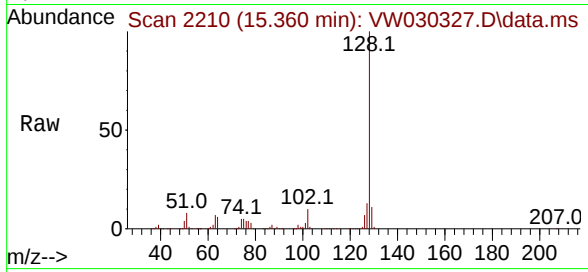
145 32.2 25.3 37.9





#71
Naphthalene
Concen: 75.590 ug/L
RT: 15.360 min Scan# 21
Delta R.T. 0.004 min
Lab File: VW030327.D
Acq: 02 Oct 2024 15:21

Instrument :
MSVOA_W
ClientSampleId :



Tgt Ion:128 Resp: 366571
Ion Ratio Lower Upper
128 100
127 13.3 10.8 16.2
129 10.7 8.8 13.2

