

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122021\
 Data File : VW021503.D
 Acq On : 20 Dec 2021 17:12
 Operator : SY/VA
 Sample : M5171-14
 Misc : 6.44g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 20 18:54:56 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
 Quant Title : SFAM01.0
 QLast Update : Sat Dec 18 00:55:20 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	165651	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.634	117	139574	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.554	152	42595	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.349	65	18753	6.216	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	24.880%#
7) Chloroethane-d5	2.885	69	19288	9.671	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	38.680%
11) 1,1-Dichloroethene-d2	4.019	63	34935	8.686	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	34.760%#
21) 2-Butanone-d5	7.196	46	94	0.221	ug/L	0.12
Spiked Amount	50.000	Range	20 - 135	Recovery	=	0.440%#
24) Chloroform-d	7.647	84	94370	20.443	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	81.760%
26) 1,2-Dichloroethane-d4	8.305	65	57883	23.572	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	94.280%
32) Benzene-d6	8.275	84	176175	23.028	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	92.120%
36) 1,2-Dichloropropane-d6	9.274	67	57781	28.161	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	112.640%
41) Toluene-d8	10.323	98	151771	19.416	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	77.680%
43) trans-1,3-Dichloroprop...	10.579	79	22503	23.819	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	95.280%
47) 2-Hexanone-d5	10.920	63	23523	77.531	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	155.060%#
56) 1,1,2,2-Tetrachloroeth...	12.688	84	36033	20.429	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	81.720%
66) 1,2-Dichlorobenzene-d4	13.554	152	42595	25.803	ug/L	-0.30
Spiked Amount	25.000	Range	75 - 120	Recovery	=	103.200%
Target Compounds						
					Qvalue	
13) Acetone	4.117	43	11716	30.731	ug/L	86
22) 2-Butanone	7.177	43	2619	5.260	ug/L	88
35) Methylcyclohexane	9.073	83	5712	1.622	ug/L	85
37) 1,2-Dichloropropane	9.274	63	6290	3.709	ug/L	# 93
39) cis-1,3-Dichloropropene	10.036	75	1631	0.610	ug/L	# 68
42) Toluene	10.384	91	9435	1.061	ug/L	99
45) 1,1,2-Trichloroethane	10.762	97	1528	1.101	ug/L	# 38
51) Chlorobenzene	11.658	112	46817	7.864	ug/L	# 87
52) Ethylbenzene	11.731	91	1005055	98.905	ug/L	98
53) m,p-Xylene	11.847	106	140078	34.170	ug/L	78
54) o-Xylene	12.164	106	46581	11.973	ug/L	96
55) Styrene	12.170	104	4637	0.700	ug/L	# 1
57) 1,1,2,2-Tetrachloroethane	12.926	83	9252	5.814	ug/L	92
60) Isopropylbenzene	12.463	105	2062858	356.413	ug/L	92
61) 1,2,3-Trichloropropane	12.804	75	2973	4.796	ug/L	# 1
62) 1,3,5-Trimethylbenzene	12.944	105	135725	27.558	ug/L	89
63) 1,2,4-Trimethylbenzene	13.249	105	2260098	465.184	ug/L	96
64) 1,3-Dichlorobenzene	13.499	146	29701	10.880	ug/L	93
65) 1,4-Dichlorobenzene	13.579	146	164398	60.611	ug/L	98

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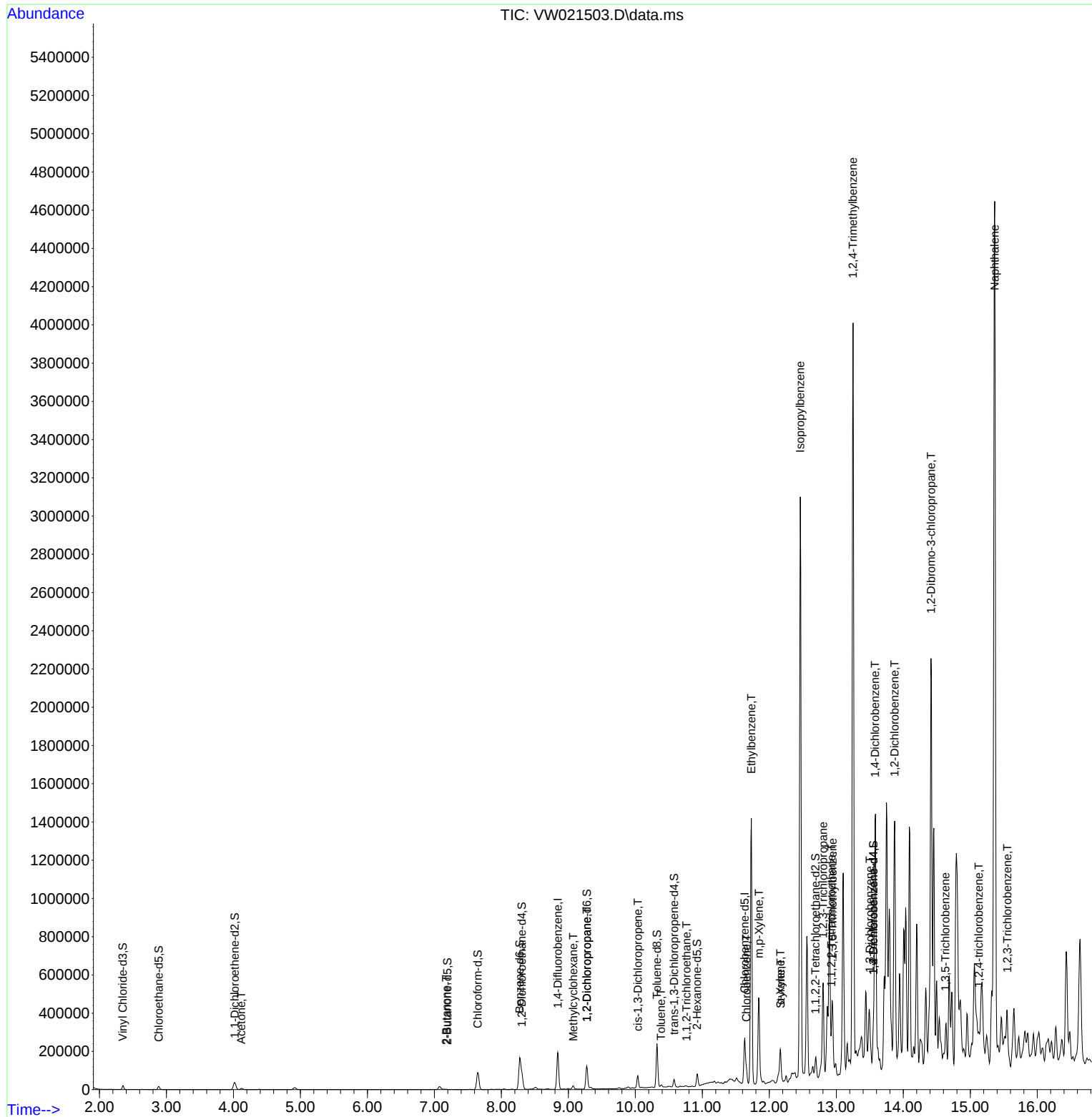
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	13.871	146	467318	194.435	ug/L	91
68) 1,2-Dibromo-3-chloropr...	14.414	75	14538	113.695	ug/L #	16
69) 1,3,5-Trichlorobenzene	14.627	180	2121	1.039	ug/L #	60
70) 1,2,4-trichlorobenzene	15.127	180	30400	18.523	ug/L #	38
71) Naphthalene	15.365	128	4228296	1585.797	ug/L	99
72) 1,2,3-Trichlorobenzene	15.554	180	10136	7.473	ug/L #	1

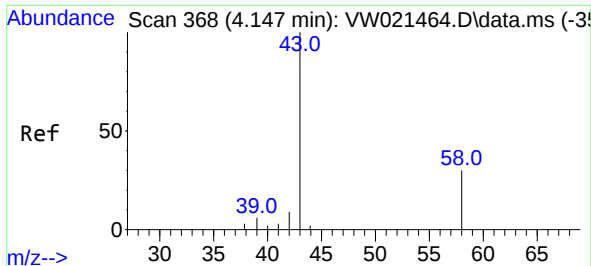
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

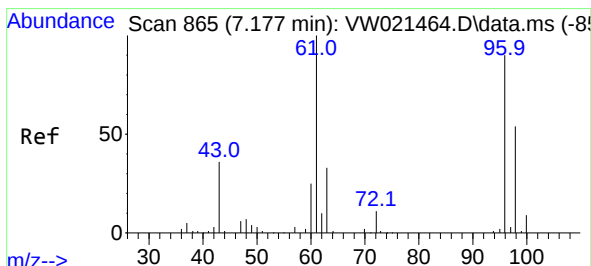
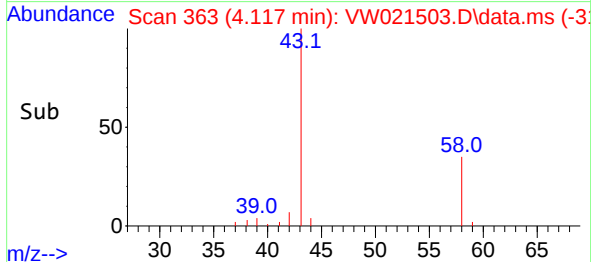
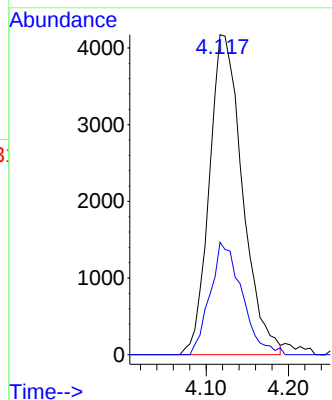
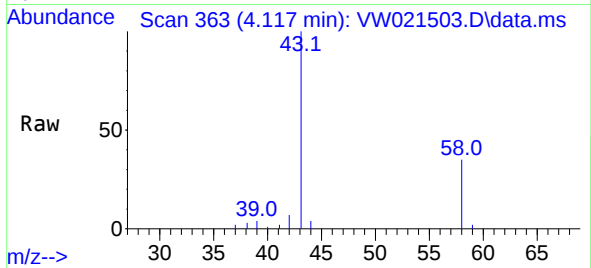




#13
Acetone
Concen: 30.731 ug/L
RT: 4.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW021503.D
Acq: 20 Dec 2021 17:12

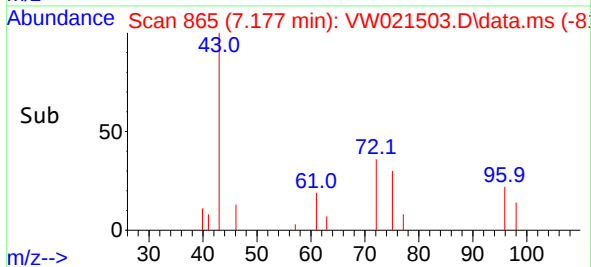
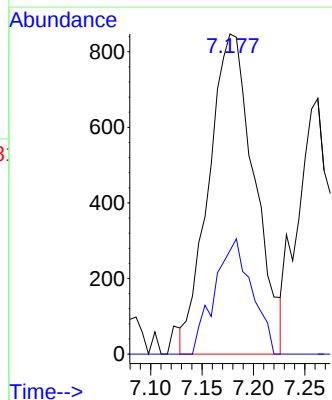
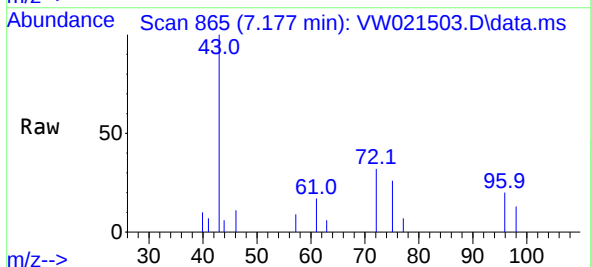
Instrument :
MSVOA_W
ClientSampleId :

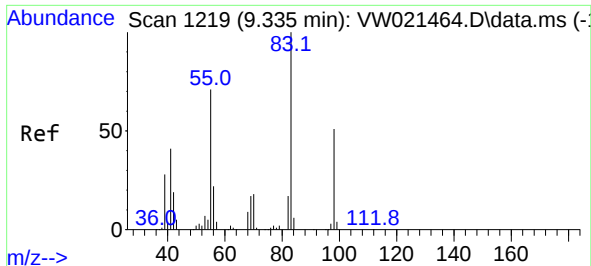
Tgt Ion: 43 Resp: 11716
Ion Ratio Lower Upper
43 100
58 33.7 0.0 52.8



#22
2-Butanone
Concen: 5.260 ug/L
RT: 7.177 min Scan# 865
Delta R.T. 0.012 min
Lab File: VW021503.D
Acq: 20 Dec 2021 17:12

Tgt Ion: 43 Resp: 2619
Ion Ratio Lower Upper
43 100
72 29.3 11.8 35.4

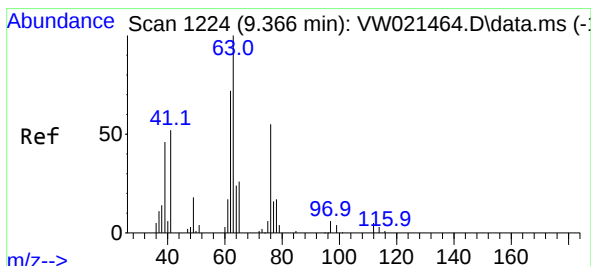
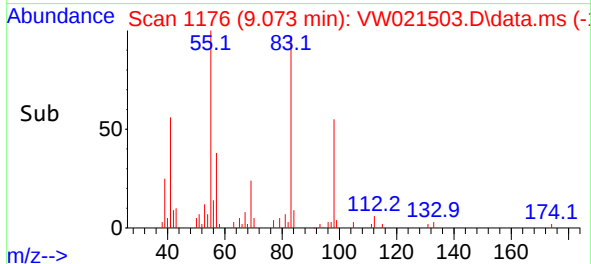
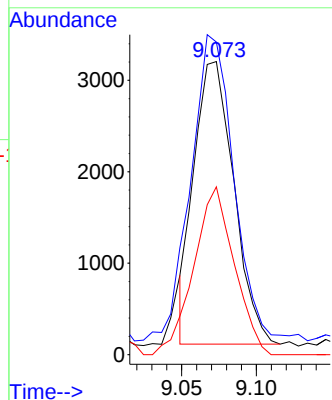
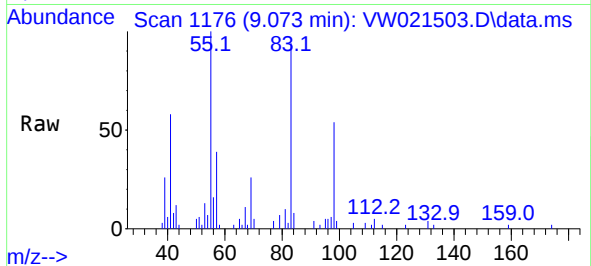




#35
Methylcyclohexane
Concen: 1.622 ug/L
RT: 9.073 min Scan# 11
Delta R.T. -0.262 min
Lab File: VW021503.D
Acq: 20 Dec 2021 17:12

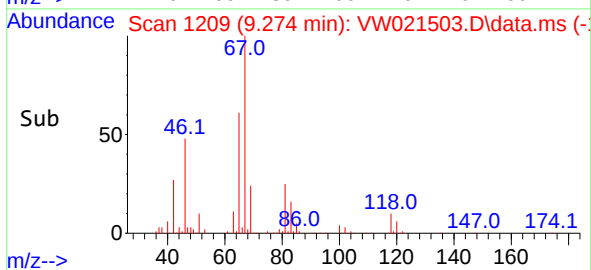
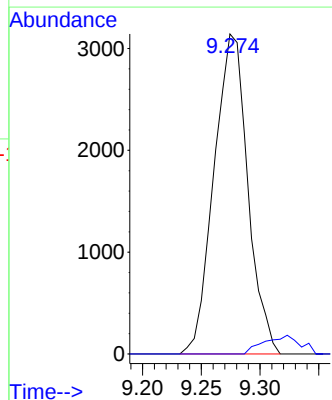
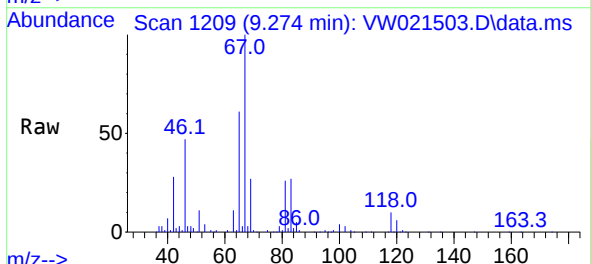
Instrument :
MSVOA_W
ClientSampleId :

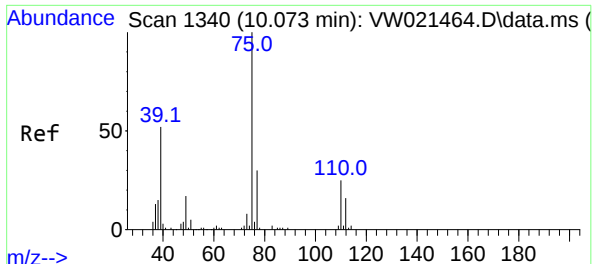
Tgt Ion: 83 Resp: 5712
Ion Ratio Lower Upper
83 100
55 102.9 70.8 106.2
98 56.1 37.7 56.5



#37
1,2-Dichloropropane
Concen: 3.709 ug/L
RT: 9.274 min Scan# 1209
Delta R.T. -0.092 min
Lab File: VW021503.D
Acq: 20 Dec 2021 17:12

Tgt Ion: 63 Resp: 6290
Ion Ratio Lower Upper
63 100
112 6.2 3.2 4.8#





#39

cis-1,3-Dichloropropene

Concen: 0.610 ug/L

RT: 10.036 min Scan# 11

Delta R.T. -0.037 min

Lab File: VW021503.D

Acq: 20 Dec 2021 17:12

Instrument :

MSVOA_W

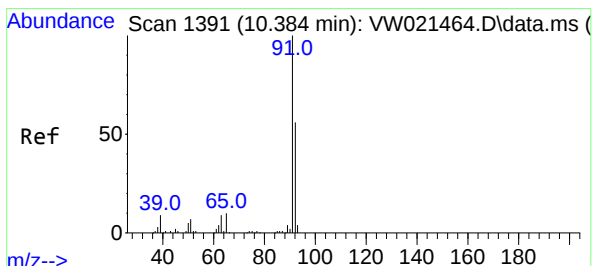
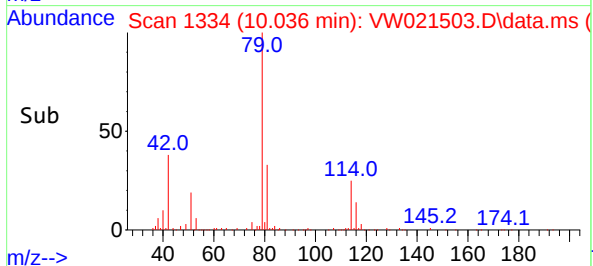
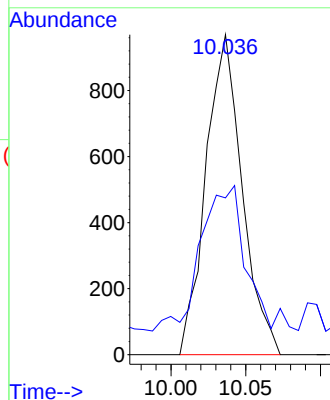
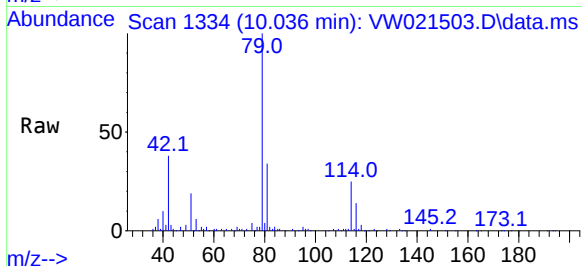
ClientSampleId :

Tgt Ion: 75 Resp: 1631

Ion Ratio Lower Upper

75 100

77 49.0 21.8 40.6#



#42

Toluene

Concen: 1.061 ug/L

RT: 10.384 min Scan# 1391

Delta R.T. -0.000 min

Lab File: VW021503.D

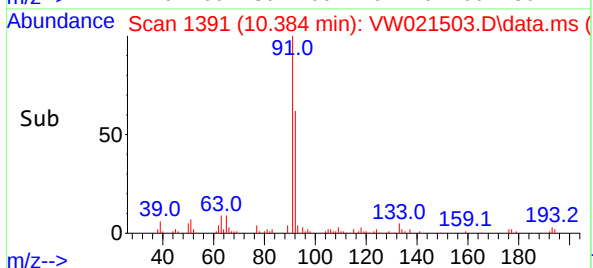
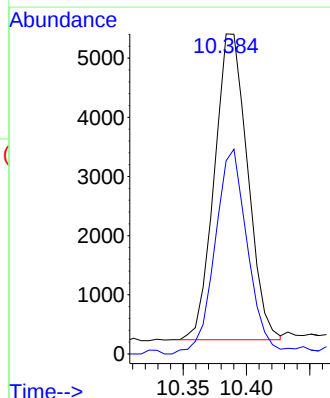
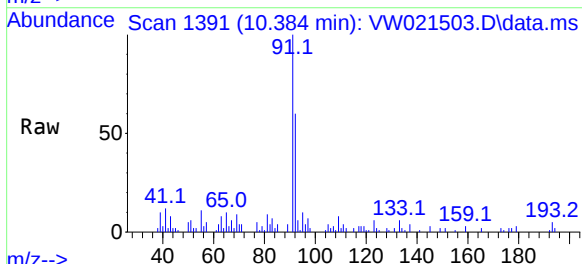
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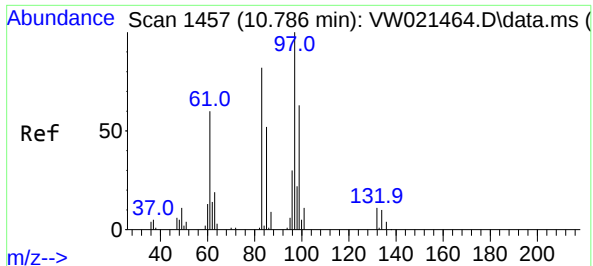
Tgt Ion: 91 Resp: 9435

Ion Ratio Lower Upper

91 100

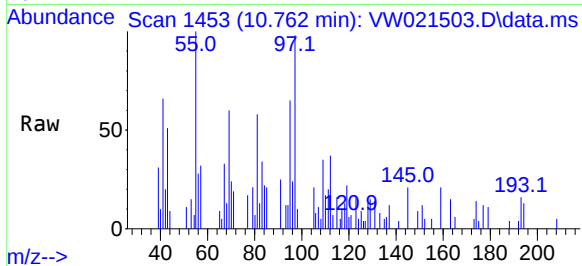
92 60.3 41.7 77.5



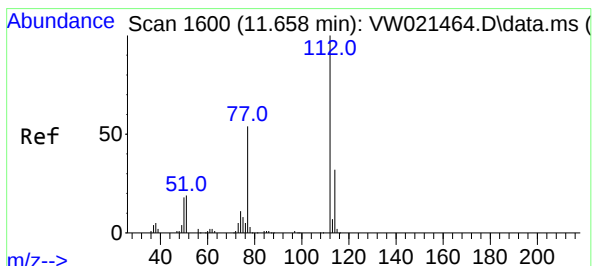
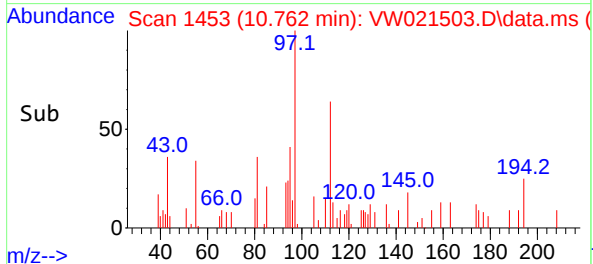
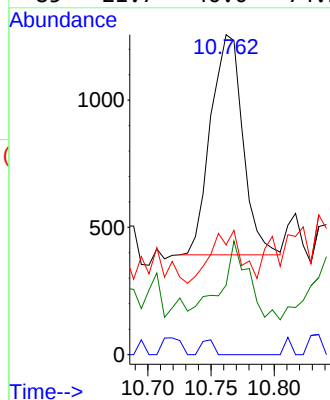


#45
1,1,2-Trichloroethane
Concen: 1.101 ug/L
RT: 10.762 min Scan# 1457
Delta R.T. -0.024 min
Lab File: VW021503.D
Acq: 20 Dec 2021 17:12

Instrument :
MSVOA_W
ClientSampleId :

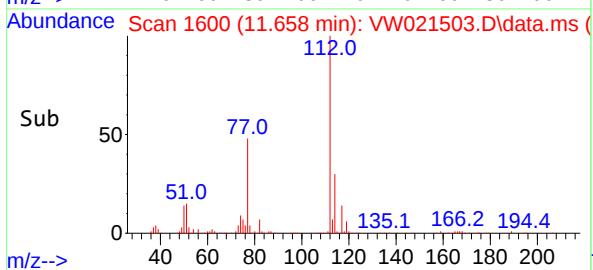
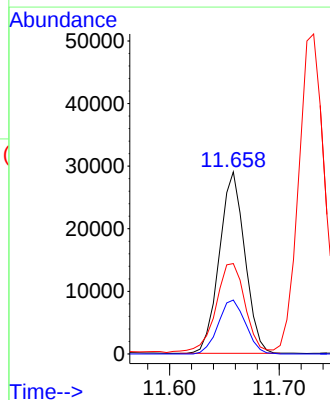
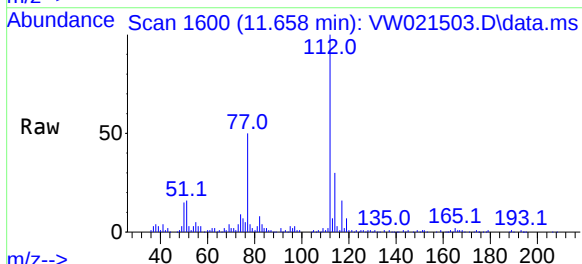


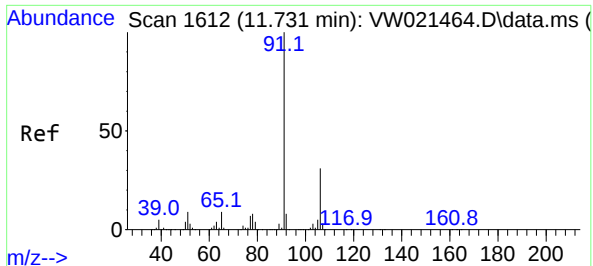
Tgt Ion:	97	Resp:	1528
Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.0	79.8#
83	34.3	62.6	116.3#
85	21.7	40.0	74.2#



#51
Chlorobenzene
Concen: 7.864 ug/L
RT: 11.658 min Scan# 1600
Delta R.T. 0.006 min
Lab File: VW021503.D
Acq: 20 Dec 2021 17:12

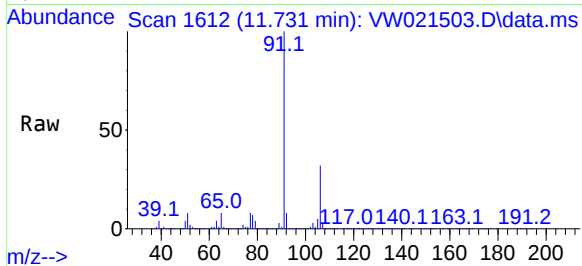
Tgt Ion:	112	Resp:	46817
Ion	Ratio	Lower	Upper
112	100		
114	29.6	22.4	41.6
77	49.6	50.2	75.4#



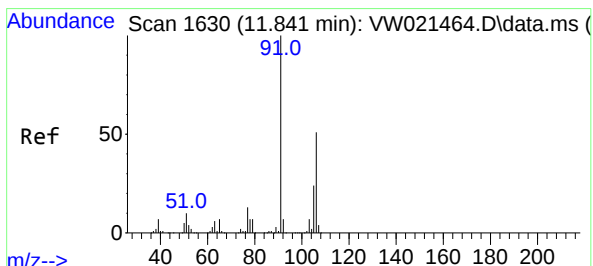
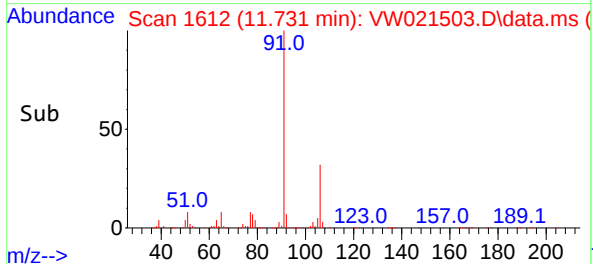
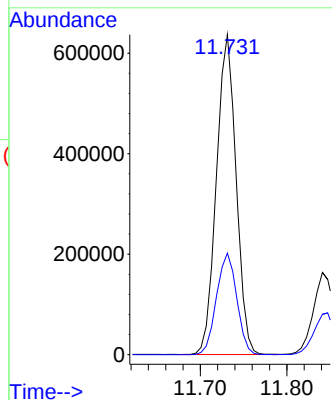


#52
Ethylbenzene
Concen: 98.905 ug/L
RT: 11.731 min Scan# 1612
Delta R.T. -0.000 min
Lab File: VW021503.D
Acq: 20 Dec 2021 17:12

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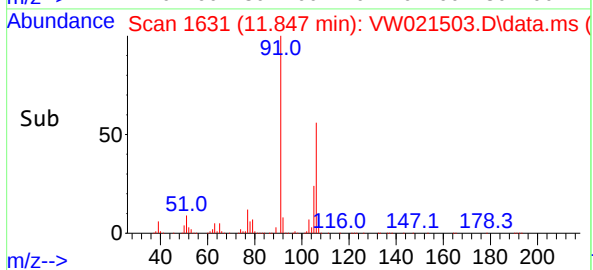
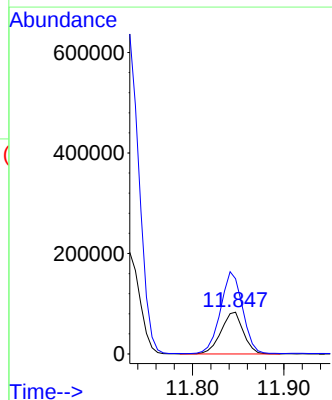
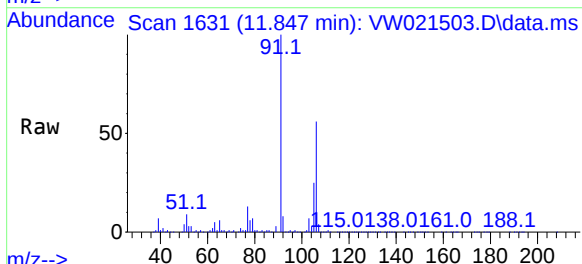


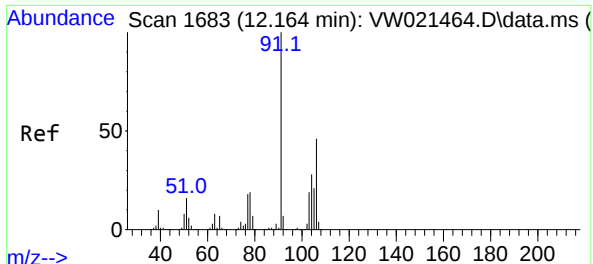
Tgt Ion: 91 Resp: 1005055
Ion Ratio Lower Upper
91 100
106 31.8 21.5 39.9



#53
m,p-Xylene
Concen: 34.170 ug/L
RT: 11.847 min Scan# 1631
Delta R.T. 0.012 min
Lab File: VW021503.D
Acq: 20 Dec 2021 17:12

Tgt Ion:106 Resp: 140078
Ion Ratio Lower Upper
106 100
91 179.9 149.9 278.3

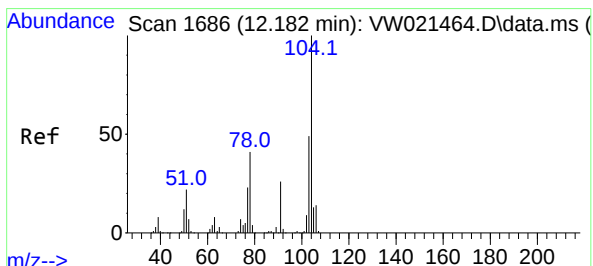
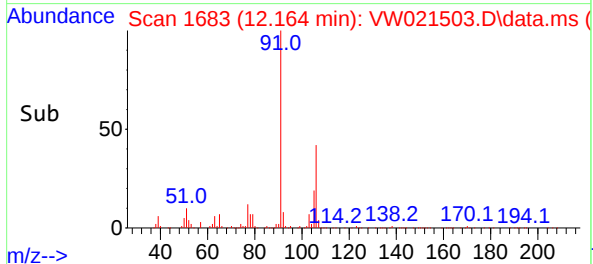
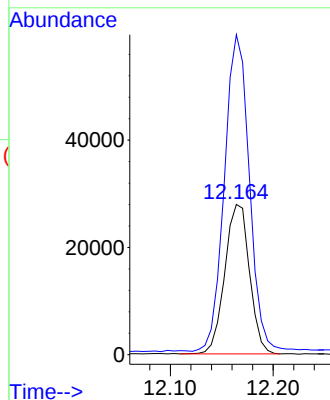
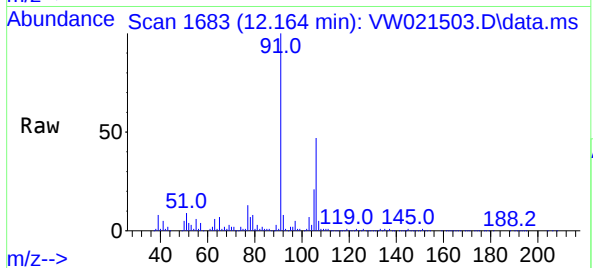




#54
o-Xylene
Concen: 11.973 ug/L
RT: 12.164 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW021503.D
Acq: 20 Dec 2021 17:12

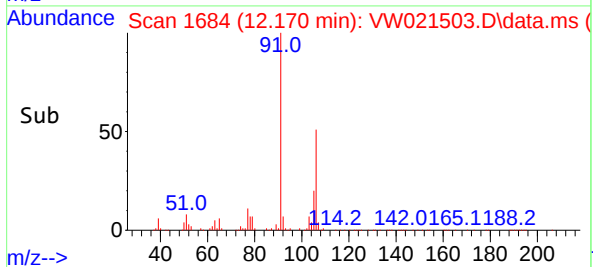
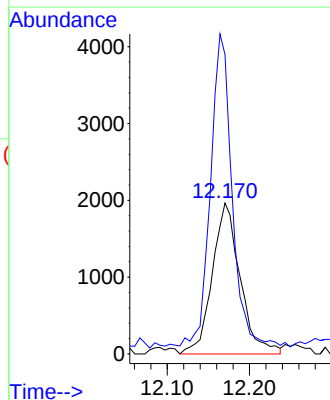
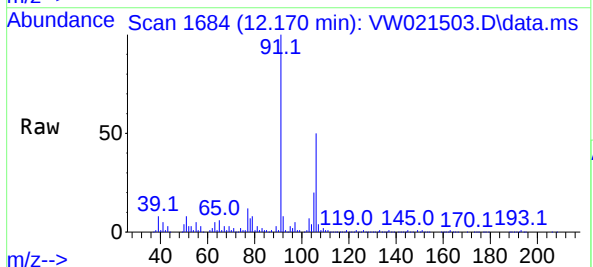
Instrument :
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ClientSampleId :

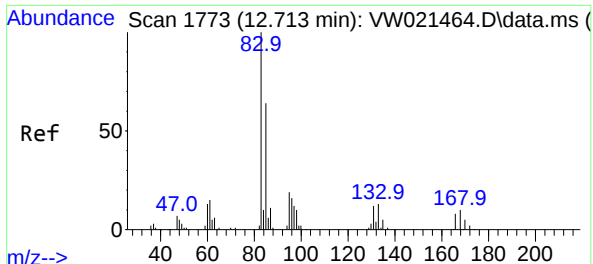
Tgt Ion:106 Resp: 46581
Ion Ratio Lower Upper
106 100
91 212.9 153.6 285.3



#55
Styrene
Concen: 0.700 ug/L
RT: 12.170 min Scan# 1684
Delta R.T. -0.006 min
Lab File: VW021503.D
Acq: 20 Dec 2021 17:12

Tgt Ion:104 Resp: 4637
Ion Ratio Lower Upper
104 100
78 198.4 34.4 64.0#

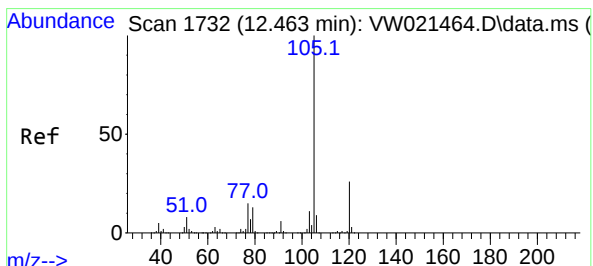
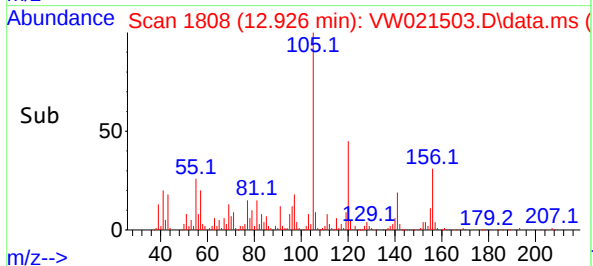
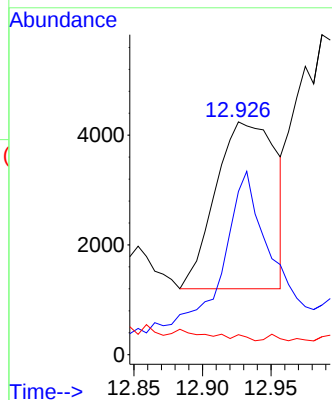
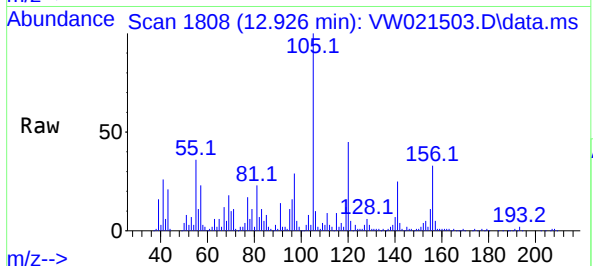




#57
1,1,2,2-Tetrachloroethane
Concen: 5.814 ug/L
RT: 12.926 min Scan# 11
Delta R.T. 0.213 min
Lab File: VW021503.D
Acq: 20 Dec 2021 17:12

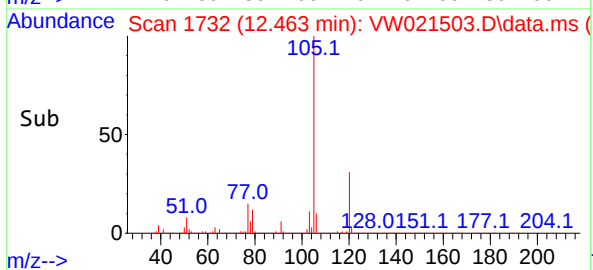
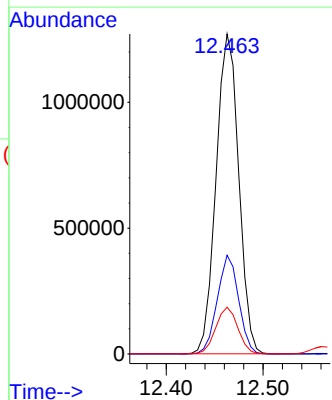
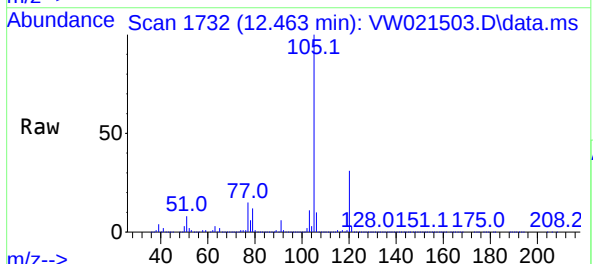
Instrument :
MSVOA_W
ClientSampleId :

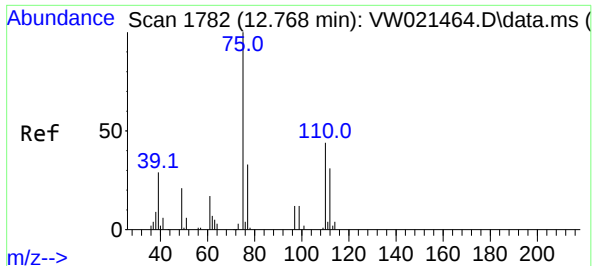
Tgt Ion: 83 Resp: 9252
Ion Ratio Lower Upper
83 100
85 70.1 44.0 81.6
131 8.6 6.9 10.3



#60
Isopropylbenzene
Concen: 356.413 ug/L
RT: 12.463 min Scan# 1732
Delta R.T. -0.000 min
Lab File: VW021503.D
Acq: 20 Dec 2021 17:12

Tgt Ion:105 Resp: 2062858
Ion Ratio Lower Upper
105 100
120 29.1 20.1 30.1
77 14.2 13.8 20.8





#61

1,2,3-Trichloropropane

Concen: 4.796 ug/L

RT: 12.804 min Scan# 11

Delta R.T. 0.037 min

Lab File: VW021503.D

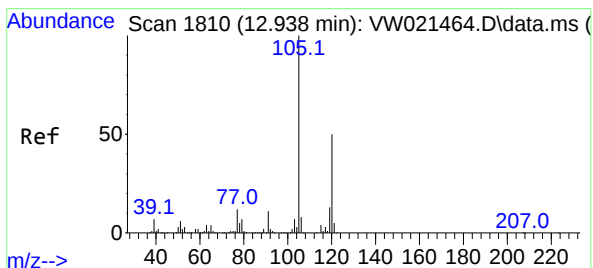
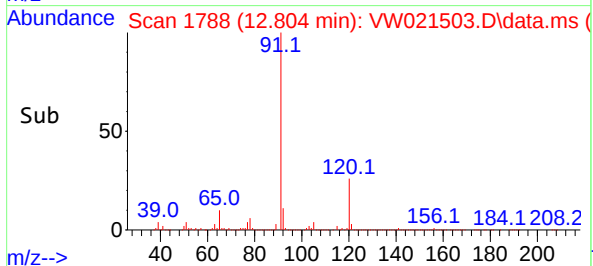
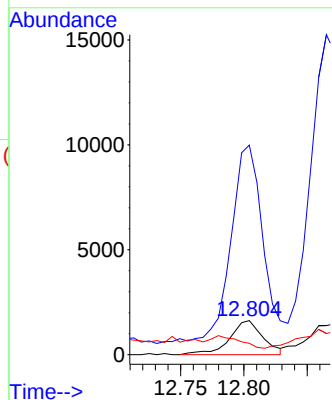
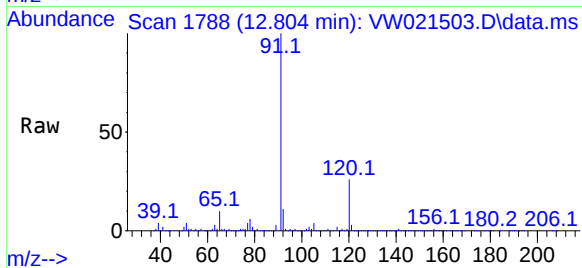
Acq: 20 Dec 2021 17:12

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	75	Resp:	2973
Ion	Ratio	Lower	Upper
75	100		
77	545.8	25.8	38.8#
110	31.7	29.0	43.4



#62

1,3,5-Trimethylbenzene

Concen: 27.558 ug/L

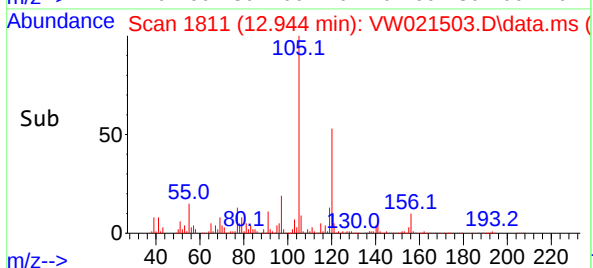
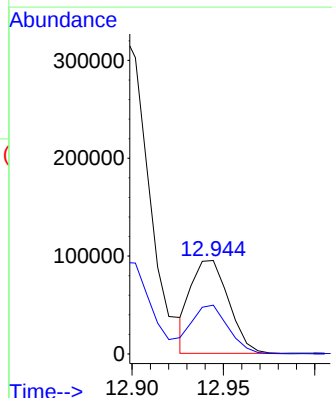
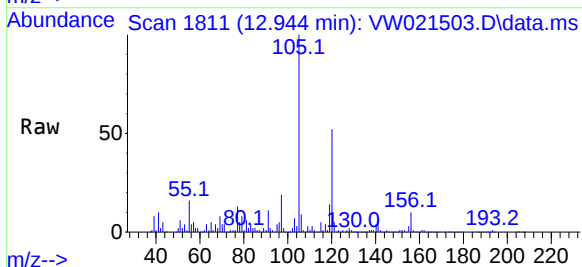
RT: 12.944 min Scan# 1811

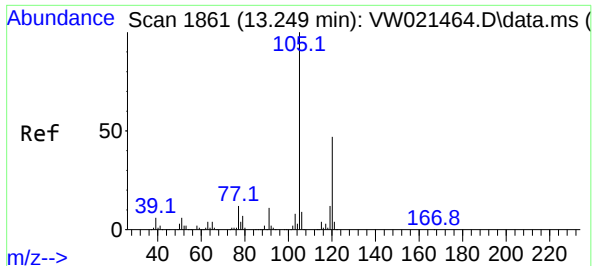
Delta R.T. 0.006 min

Lab File: VW021503.D

Acq: 20 Dec 2021 17:12

Tgt Ion:	105	Resp:	135725
Ion	Ratio	Lower	Upper
105	100		
120	54.4	37.4	56.2





#63

1,2,4-Trimethylbenzene

Concen: 465.184 ug/L

RT: 13.249 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW021503.D

Acq: 20 Dec 2021 17:12

Instrument :

MSVOA_W

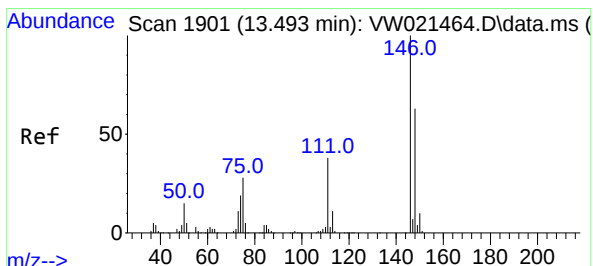
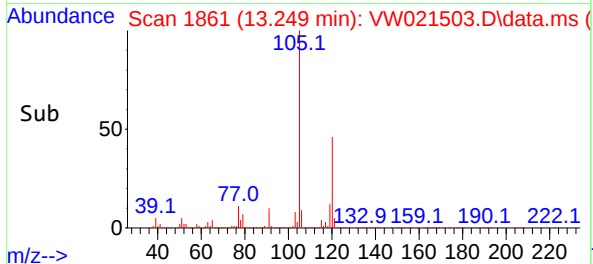
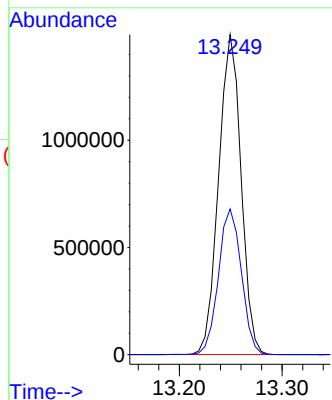
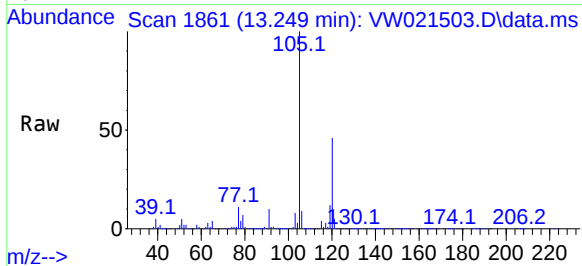
ClientSampleId :

Tgt Ion:105 Resp: 2260098

Ion Ratio Lower Upper

105 100

120 46.5 35.0 52.6



#64

1,3-Dichlorobenzene

Concen: 10.880 ug/L

RT: 13.499 min Scan# 1902

Delta R.T. 0.006 min

Lab File: VW021503.D

Acq: 20 Dec 2021 17:12

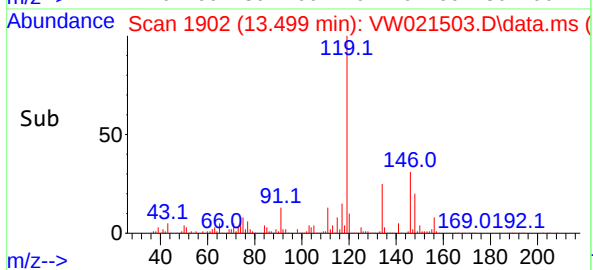
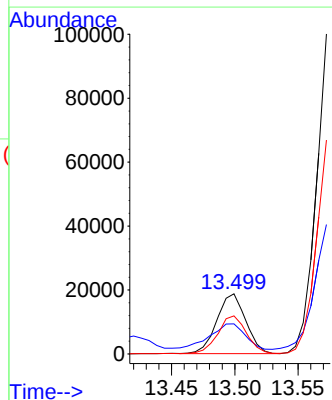
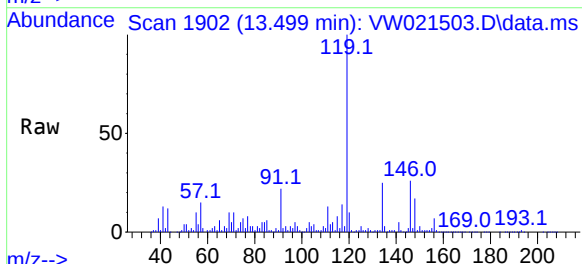
Tgt Ion:146 Resp: 29701

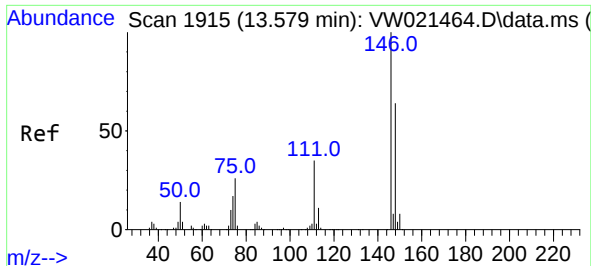
Ion Ratio Lower Upper

146 100

111 50.0 29.8 55.3

148 63.4 46.2 85.8

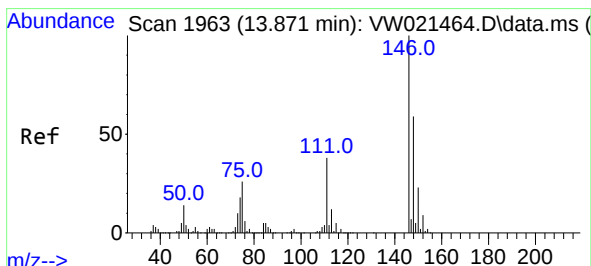
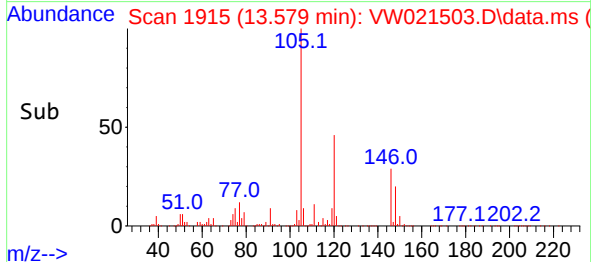
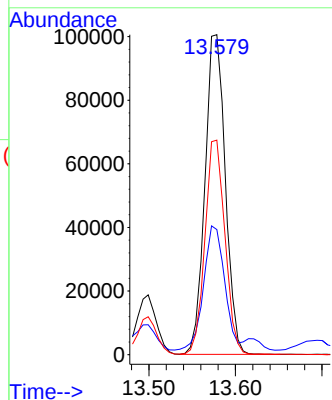
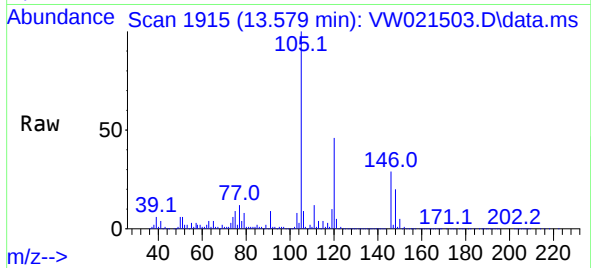




#65
1,4-Dichlorobenzene
Concen: 60.611 ug/L
RT: 13.579 min Scan# 1915
Delta R.T. 0.006 min
Lab File: VW021503.D
Acq: 20 Dec 2021 17:12

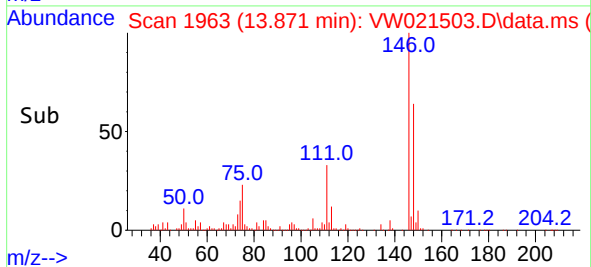
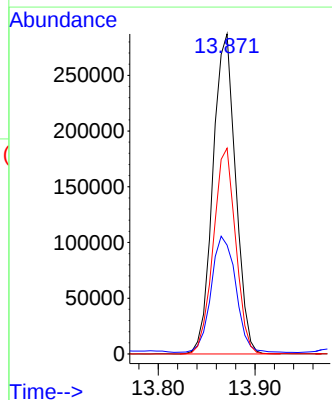
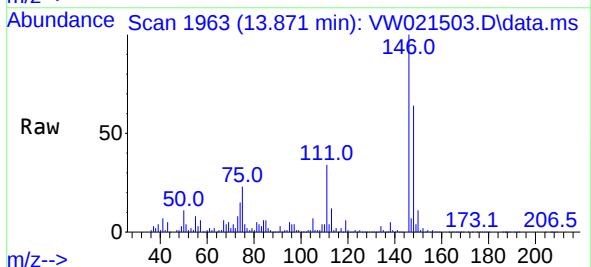
Instrument :
MSVOA_W
ClientSampleId :

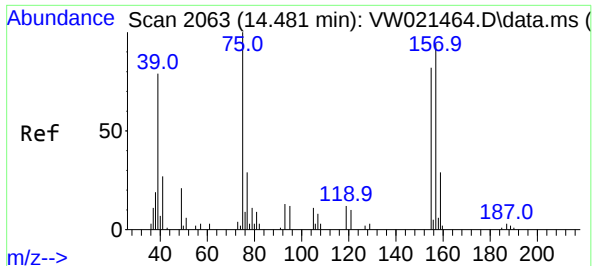
Tgt Ion:146 Resp: 164398
Ion Ratio Lower Upper
146 100
111 39.1 29.0 53.9
148 67.1 46.9 87.1



#67
1,2-Dichlorobenzene
Concen: 194.435 ug/L
RT: 13.871 min Scan# 1963
Delta R.T. 0.006 min
Lab File: VW021503.D
Acq: 20 Dec 2021 17:12

Tgt Ion:146 Resp: 467318
Ion Ratio Lower Upper
146 100
111 34.0 33.1 49.7
148 64.3 47.4 71.2





#68

1,2-Dibromo-3-chloropropane

Concen: 113.695 ug/L

RT: 14.414 min Scan# 20

Delta R.T. -0.067 min

Lab File: VW021503.D

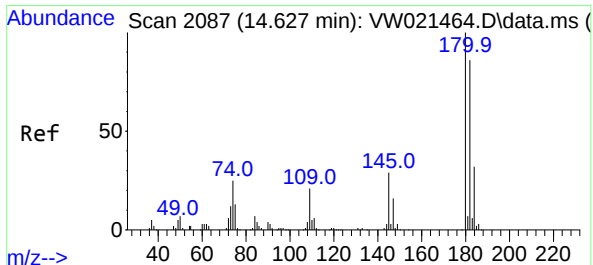
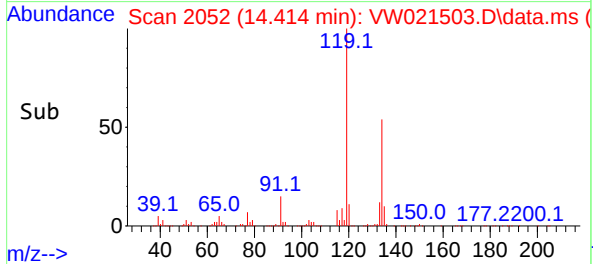
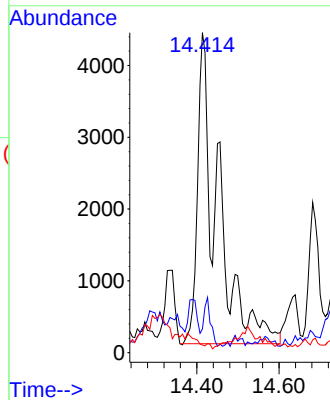
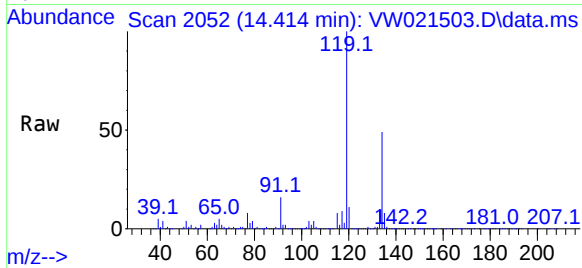
Acq: 20 Dec 2021 17:12

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 75	Resp:	14538
Ion Ratio	Lower	Upper
75	100	
155	7.4	54.2 81.2#
157	2.4	69.4 104.2#



#69

1,3,5-Trichlorobenzene

Concen: 1.039 ug/L

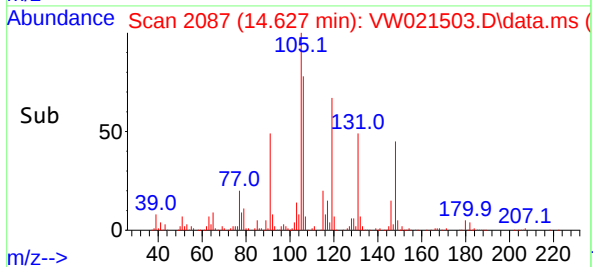
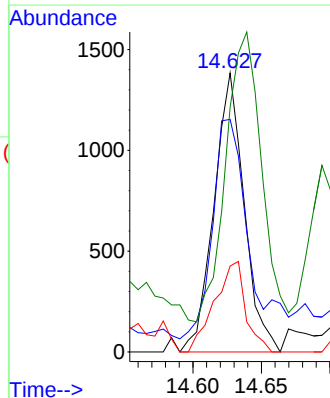
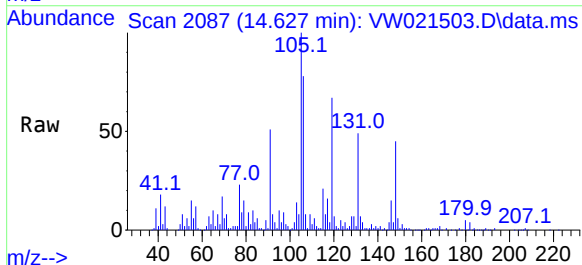
RT: 14.627 min Scan# 2087

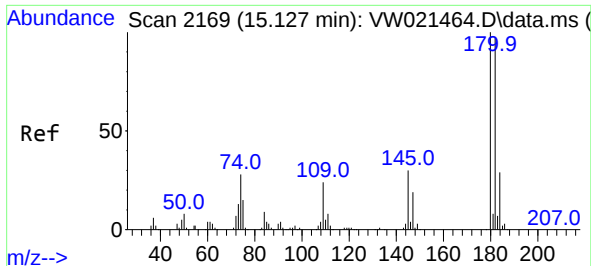
Delta R.T. -0.000 min

Lab File: VW021503.D

Acq: 20 Dec 2021 17:12

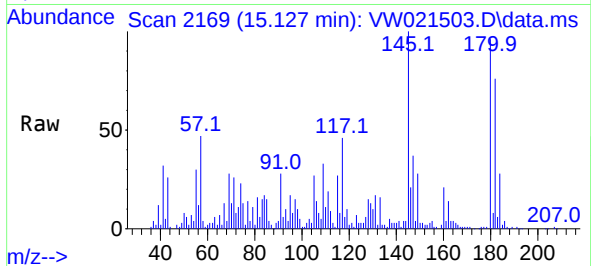
Tgt Ion: 180	Resp:	2121
Ion Ratio	Lower	Upper
180	100	
182	84.9	75.4 113.0
184	33.2	23.8 35.8
145	121.2	23.8 35.8#



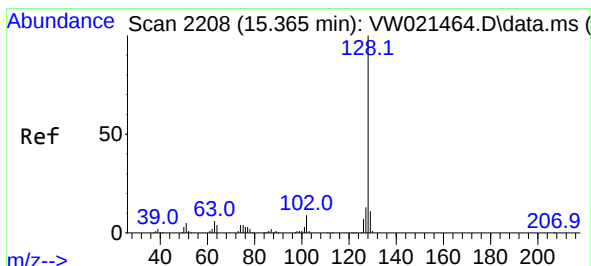
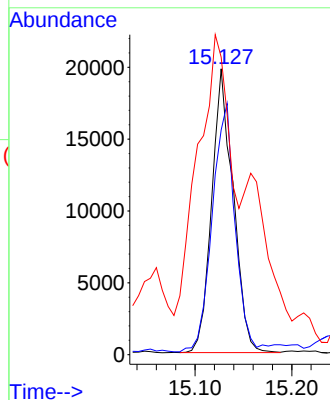
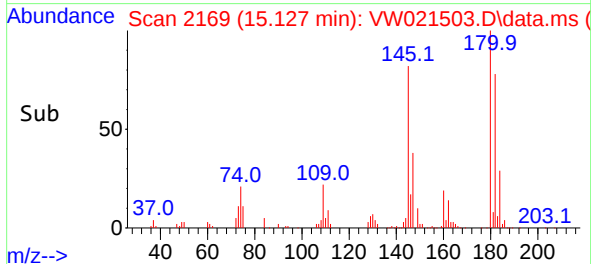


#70
1,2,4-trichlorobenzene
Concen: 18.523 ug/L
RT: 15.127 min Scan# 2169
Delta R.T. -0.006 min
Lab File: VW021503.D
Acq: 20 Dec 2021 17:12

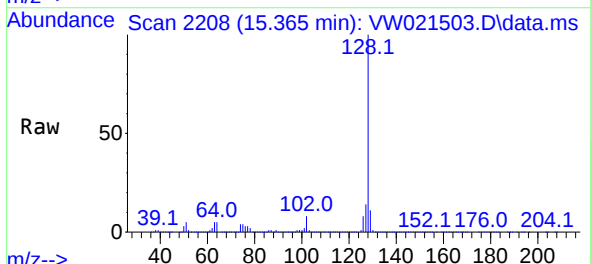
Instrument :
MSVOA_W
ClientSampleId :



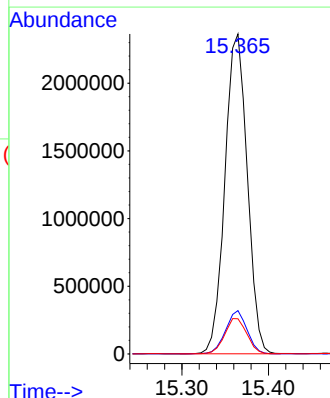
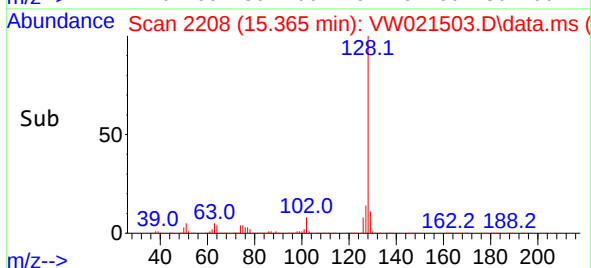
Tgt Ion:180 Resp: 30400
Ion Ratio Lower Upper
180 100
182 92.5 79.0 118.6
145 163.3 26.0 39.0#

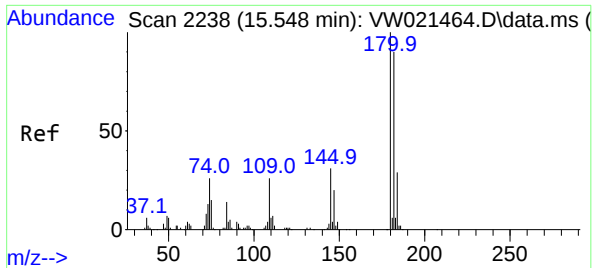


#71
Naphthalene
Concen: 1585.797 ug/L
RT: 15.365 min Scan# 2208
Delta R.T. 0.006 min
Lab File: VW021503.D
Acq: 20 Dec 2021 17:12



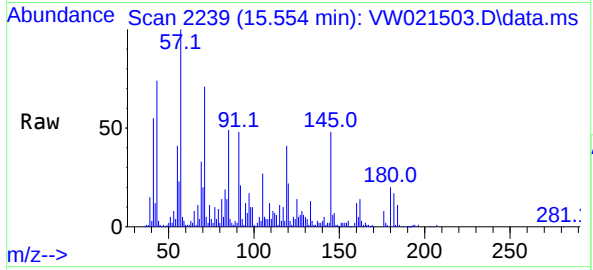
Tgt Ion:128 Resp: 4228296
Ion Ratio Lower Upper
128 100
127 13.1 10.7 16.1
129 11.0 8.6 12.8





#72
 1,2,3-Trichlorobenzene
 Concen: 7.473 ug/L
 RT: 15.554 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VW021503.D
 Acq: 20 Dec 2021 17:12

Instrument :
 MSVOA_W
 ClientSampleId :



Tgt Ion:180 Resp: 10136

Ion	Ratio	Lower	Upper
180	100		
182	97.5	76.6	114.8
145	246.7	27.4	41.0#

