

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122021\
 Data File : VW021502.D
 Acq On : 20 Dec 2021 16:48
 Operator : SY/VA
 Sample : M5171-13
 Misc : 6.35g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 20 18:54:28 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	128044	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.628	117	94274	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.554	152	30685	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.355	65	21395	9.174	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	36.680%
7) Chloroethane-d5	2.885	69	19412	12.592	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	50.360%
11) 1,1-Dichloroethene-d2	4.019	63	37370	12.020	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	48.080%
21) 2-Butanone-d5	7.080	46	22773	69.277	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	138.560%#
24) Chloroform-d	7.653	84	79975	22.413	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	89.640%
26) 1,2-Dichloroethane-d4	8.305	65	48239	25.415	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	101.640%
32) Benzene-d6	8.275	84	153750	29.753	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	119.000%
36) 1,2-Dichloropropane-d6	9.274	67	46012	33.201	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	132.800%#
41) Toluene-d8	10.323	98	125338	23.739	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.960%
43) trans-1,3-Dichloroprop...	10.579	79	16363	25.643	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	102.560%
47) 2-Hexanone-d5	10.927	63	18520	90.372	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	180.740%#
56) 1,1,2,2-Tetrachloroeth...	12.688	84	26481	22.228	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	88.920%
66) 1,2-Dichlorobenzene-d4	13.554	152	30685	25.803	ug/L	-0.30
Spiked Amount	25.000	Range	75 - 120	Recovery	=	103.200%
Target Compounds						
					Qvalue	
13) Acetone	4.123	43	20398	69.219	ug/L	87
14) Carbon disulfide	4.379	76	4089	0.998	ug/L	# 93
15) Methyl Acetate	4.672	43	1086	2.136	ug/L	# 80
22) 2-Butanone	7.177	43	6126	15.918	ug/L	90
37) 1,2-Dichloropropane	9.268	63	5218	4.555	ug/L	# 91
39) cis-1,3-Dichloropropene	10.036	75	1108	0.614	ug/L	# 72
40) 4-Methyl-2-pentanone	10.213	43	1431	2.293	ug/L	# 97
42) Toluene	10.390	91	11235	1.871	ug/L	100
45) 1,1,2-Trichloroethane	10.756	97	478	0.510	ug/L	# 14
48) 2-Hexanone	10.927	43	3505	7.743	ug/L	# 58
51) Chlorobenzene	11.652	112	16523	4.109	ug/L	90
52) Ethylbenzene	11.731	91	328989	47.932	ug/L	98
53) m,p-Xylene	11.841	106	94405	34.095	ug/L	85
54) o-Xylene	12.164	106	42409	16.139	ug/L	82
55) Styrene	12.176	104	3750	0.838	ug/L	# 1
57) 1,1,2,2-Tetrachloroethane	12.688	83	1330	1.237	ug/L	# 23
60) Isopropylbenzene	12.463	105	604423	144.963	ug/L	95
61) 1,2,3-Trichloropropane	12.804	75	1082	2.423	ug/L	# 1
62) 1,3,5-Trimethylbenzene	12.938	105	103553	29.186	ug/L	94

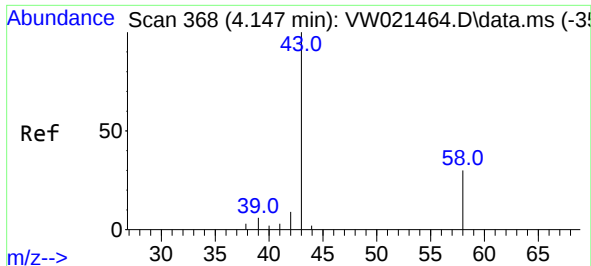
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122021\
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 Quant Title : SFAM01.0
 QLast Update : Sat Dec 18 00:55:20 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	13.249	105	1506804	430.514	ug/L	93
64) 1,3-Dichlorobenzene	13.493	146	53020	26.959	ug/L	90
65) 1,4-Dichlorobenzene	13.579	146	212263	108.633	ug/L	98
67) 1,2-Dichlorobenzene	13.865	146	408574	235.975	ug/L	94
68) 1,2-Dibromo-3-chloropr...	14.414	75	13624	147.902	ug/L #	16
69) 1,3,5-Trichlorobenzene	14.627	180	14053	9.560	ug/L #	94
70) 1,2,4-trichlorobenzene	15.127	180	25953	21.951	ug/L #	38
71) Naphthalene	15.365	128	2641256	1375.071	ug/L	100
72) 1,2,3-Trichlorobenzene	15.560	180	2537	2.596	ug/L #	1

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



#13

Acetone

Concen: 69.219 ug/L

RT: 4.123 min Scan# 3

Delta R.T. 0.006 min

Lab File: VW021502.D

Acq: 20 Dec 2021 16:48

Instrument :

MSVOA_W

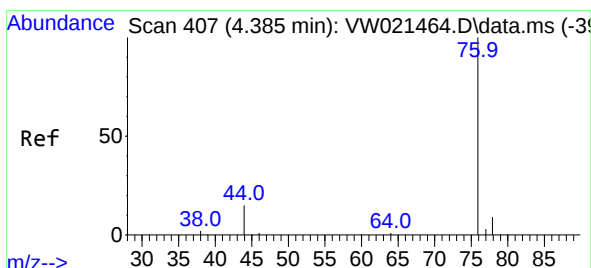
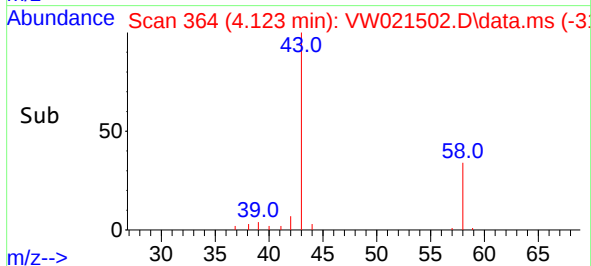
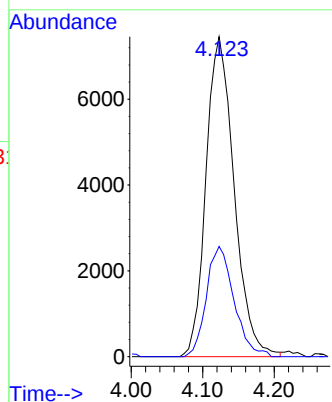
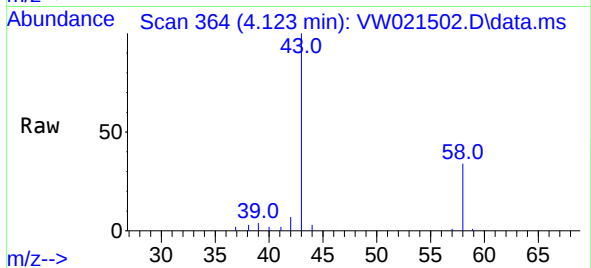
ClientSampleId :

Tgt Ion: 43 Resp: 20398

Ion Ratio Lower Upper

43 100

58 33.3 0.0 52.8



#14

Carbon disulfide

Concen: 0.998 ug/L

RT: 4.379 min Scan# 406

Delta R.T. -0.000 min

Lab File: VW021502.D

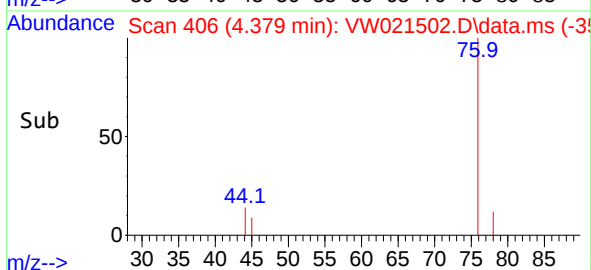
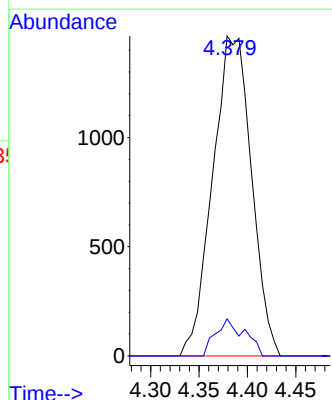
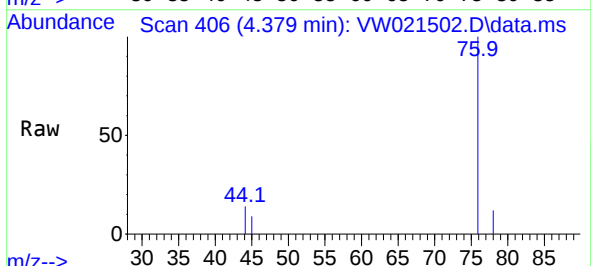
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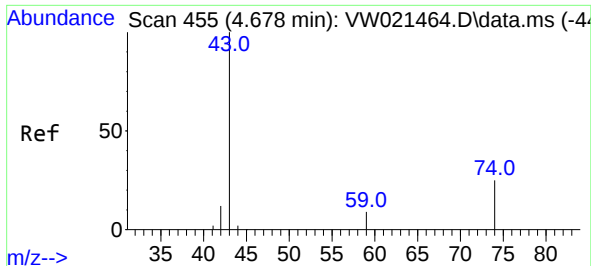
Tgt Ion: 76 Resp: 4089

Ion Ratio Lower Upper

76 100

78 11.6 7.1 10.7#

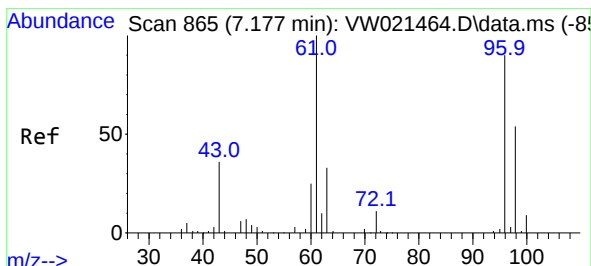
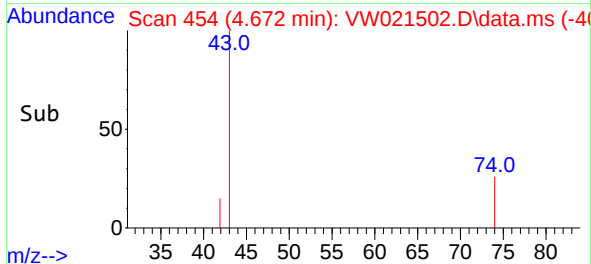
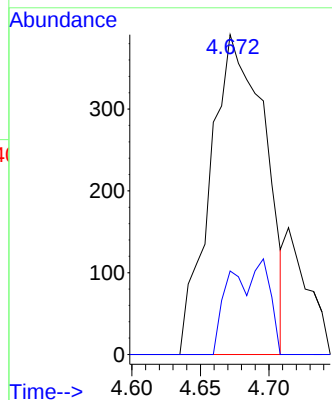
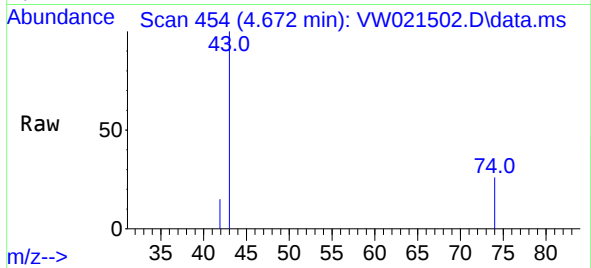




#15
Methyl Acetate
Concen: 2.136 ug/L
RT: 4.672 min Scan# 41
Delta R.T. 0.006 min
Lab File: VW021502.D
Acq: 20 Dec 2021 16:48

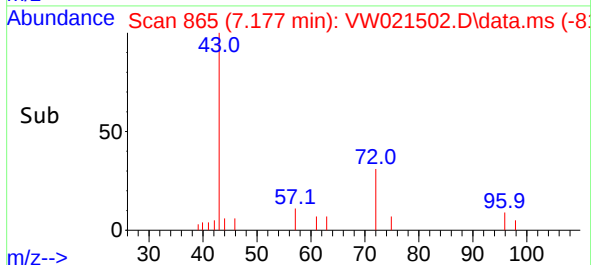
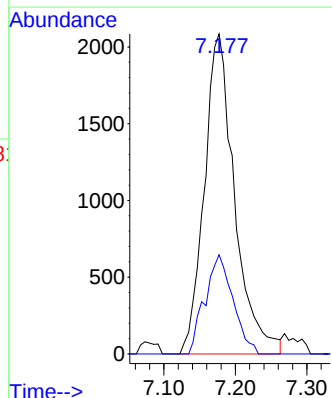
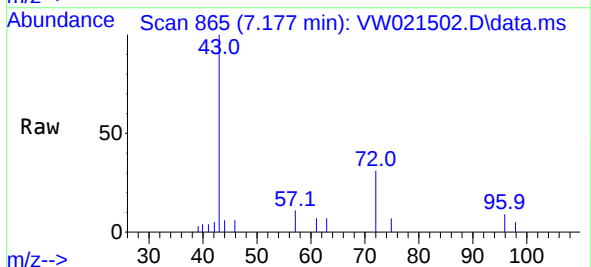
Instrument :
MSVOA_W
ClientSampleId :

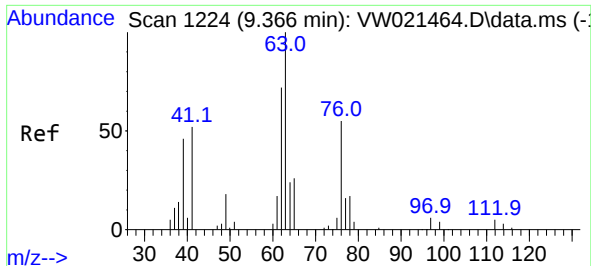
Tgt Ion: 43 Resp: 1086
Ion Ratio Lower Upper
43 100
74 11.3 16.4 24.6#



#22
2-Butanone
Concen: 15.918 ug/L
RT: 7.177 min Scan# 865
Delta R.T. 0.012 min
Lab File: VW021502.D
Acq: 20 Dec 2021 16:48

Tgt Ion: 43 Resp: 6126
Ion Ratio Lower Upper
43 100
72 28.6 11.8 35.4





#37

1,2-Dichloropropane

Concen: 4.555 ug/L

RT: 9.268 min Scan# 11

Delta R.T. -0.098 min

Lab File: VW021502.D

Acq: 20 Dec 2021 16:48

Instrument :

MSVOA_W

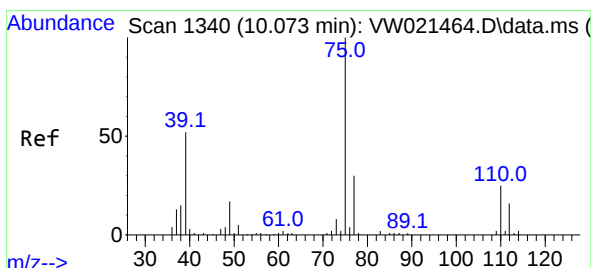
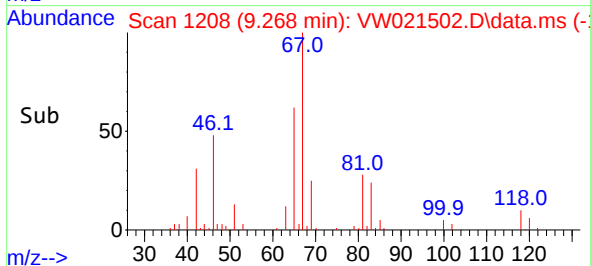
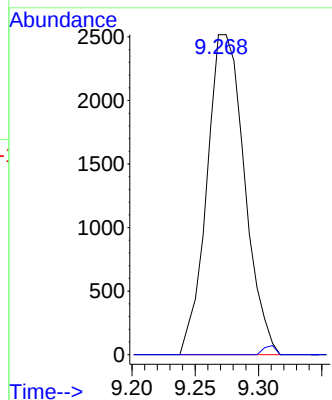
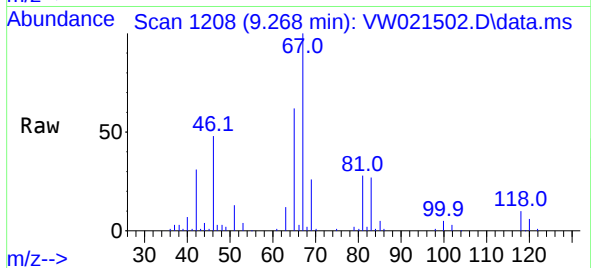
ClientSampleId :

Tgt Ion: 63 Resp: 5218

Ion Ratio Lower Upper

63 100

112 0.9 3.2 4.8#



#39

cis-1,3-Dichloropropene

Concen: 0.614 ug/L

RT: 10.036 min Scan# 1334

Delta R.T. -0.037 min

Lab File: VW021502.D

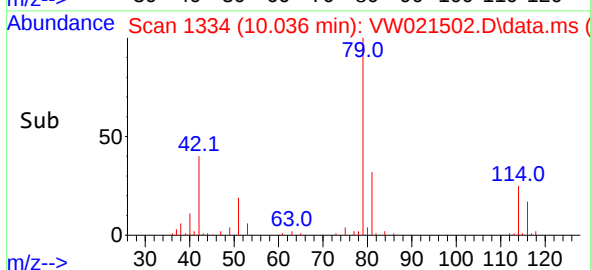
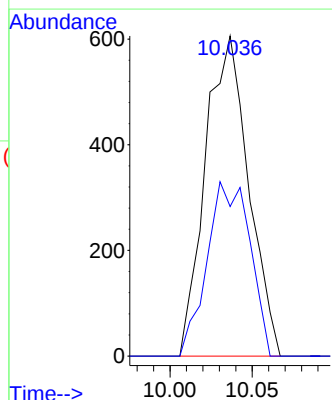
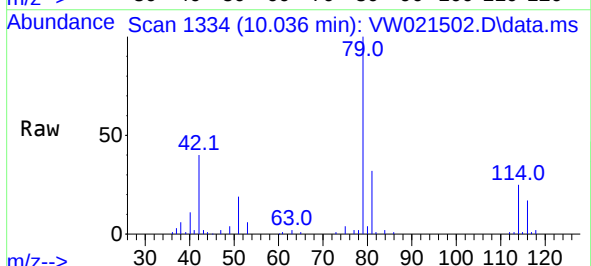
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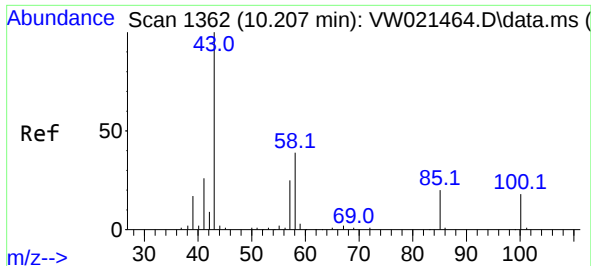
Tgt Ion: 75 Resp: 1108

Ion Ratio Lower Upper

75 100

77 46.7 21.8 40.6#





#40

4-Methyl-2-pentanone

Concen: 2.293 ug/L

RT: 10.213 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW021502.D

Acq: 20 Dec 2021 16:48

Instrument :

MSVOA_W

ClientSampleId :

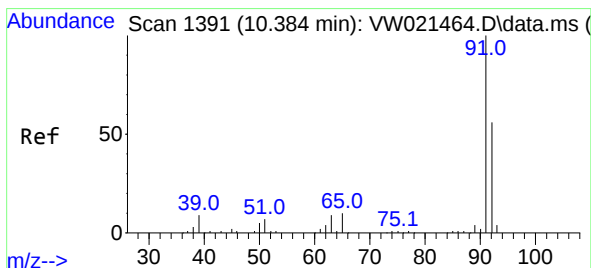
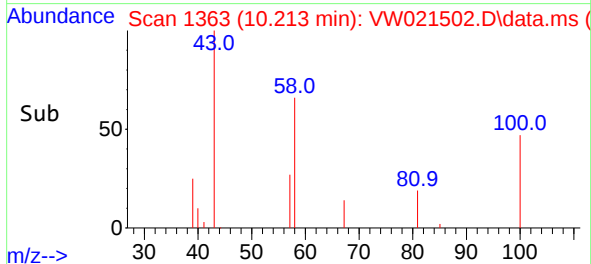
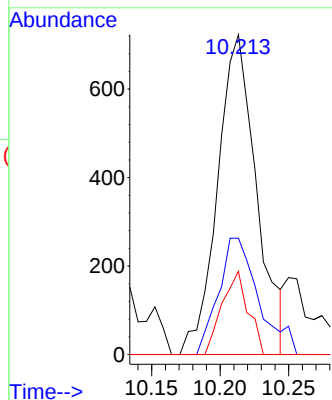
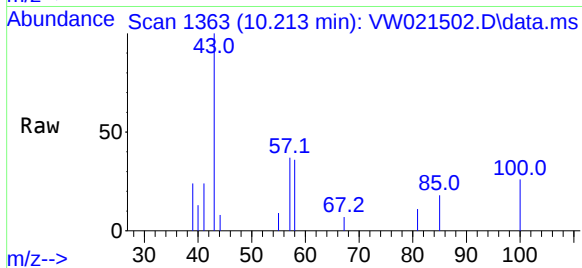
Tgt Ion: 43 Resp: 1431

Ion Ratio Lower Upper

43 100

58 35.9 28.8 43.2

100 17.4 10.0 15.0#



#42

Toluene

Concen: 1.871 ug/L

RT: 10.390 min Scan# 1392

Delta R.T. 0.006 min

Lab File: VW021502.D

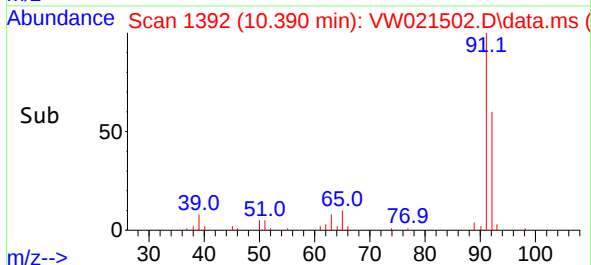
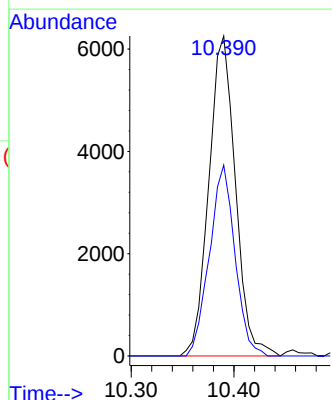
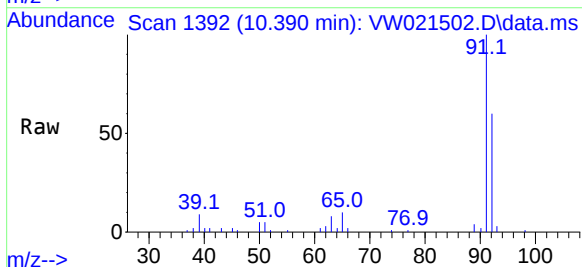
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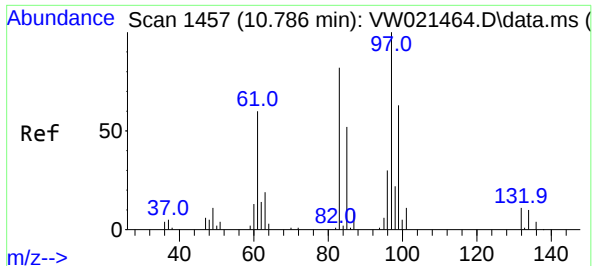
Tgt Ion: 91 Resp: 11235

Ion Ratio Lower Upper

91 100

92 59.6 41.7 77.5





#45

1,1,2-Trichloroethane

Concen: 0.510 ug/L

RT: 10.756 min Scan# 1457

Delta R.T. -0.031 min

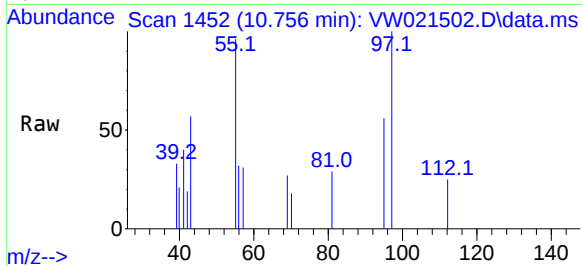
Lab File: VW021502.D

Acq: 20 Dec 2021 16:48

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 97 Resp: 478

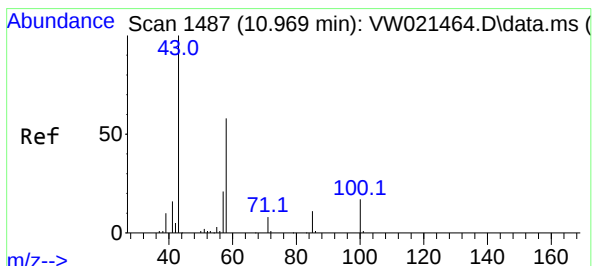
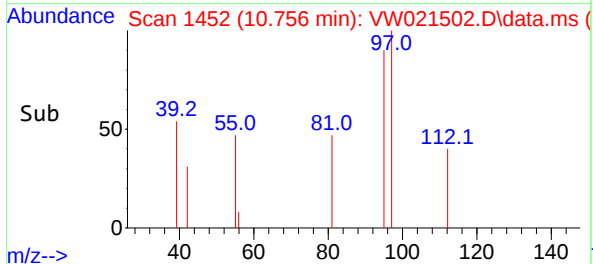
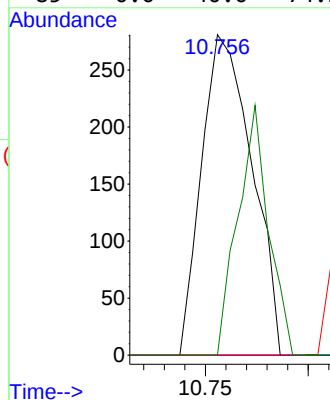
Ion Ratio Lower Upper

97 100

99 0.0 43.0 79.8#

83 0.0 62.6 116.3#

85 0.0 40.0 74.2#



#48

2-Hexanone

Concen: 7.743 ug/L

RT: 10.927 min Scan# 1480

Delta R.T. -0.043 min

Lab File: VW021502.D

Acq: 20 Dec 2021 16:48

Tgt Ion: 43 Resp: 3505

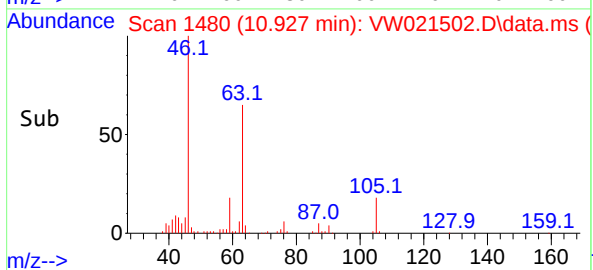
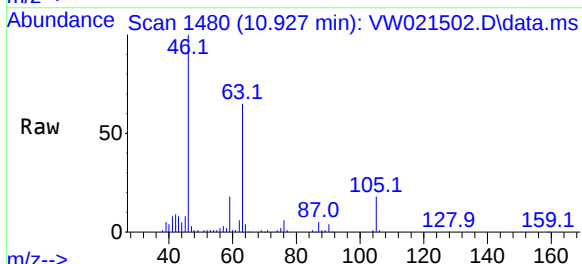
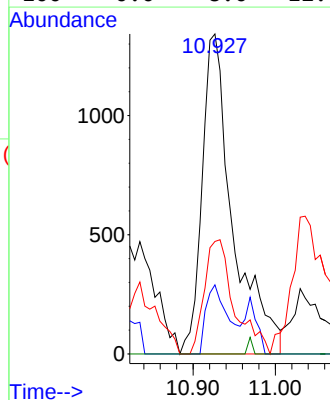
Ion Ratio Lower Upper

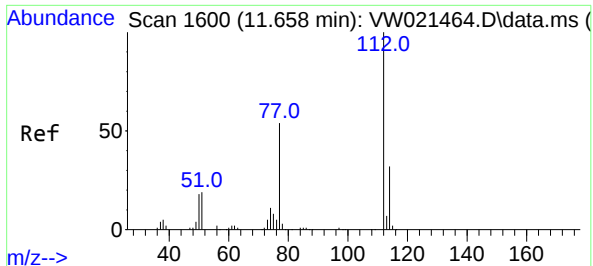
43 100

58 15.7 40.2 60.2#

57 30.8 14.3 21.5#

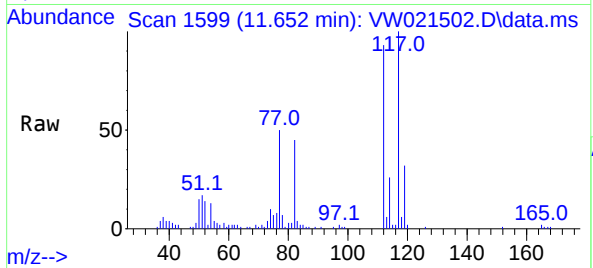
100 0.0 8.0 12.0#



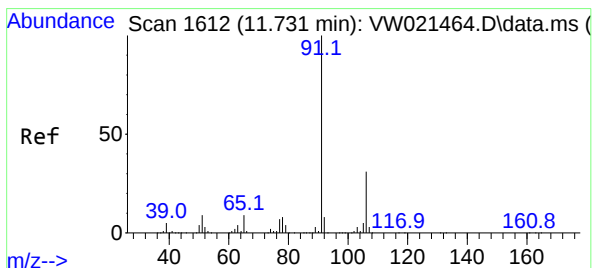
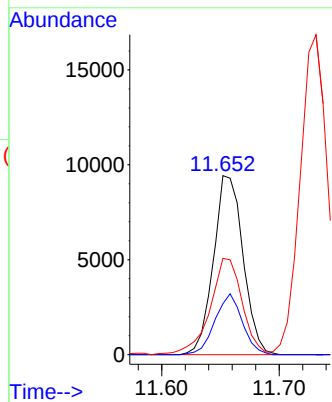
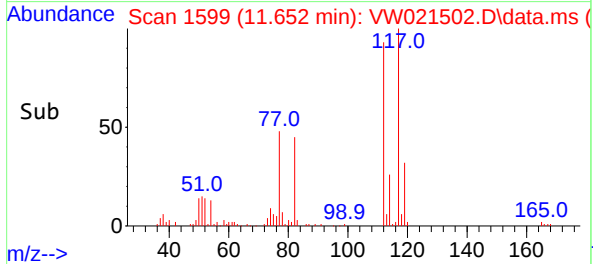


#51
Chlorobenzene
Concen: 4.109 ug/L
RT: 11.652 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW021502.D
Acq: 20 Dec 2021 16:48

Instrument :
MSVOA_W
ClientSampleId :

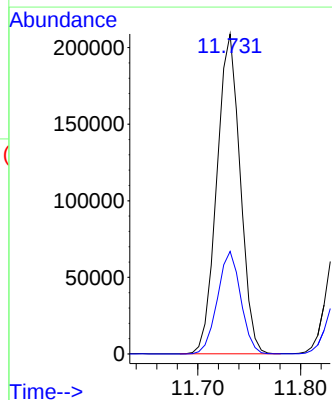
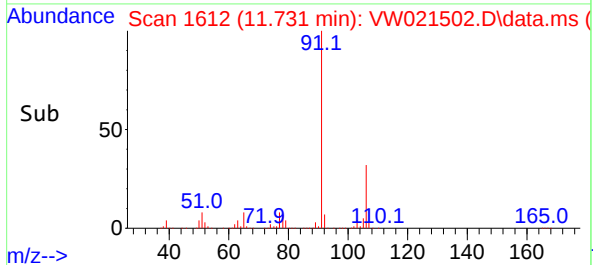
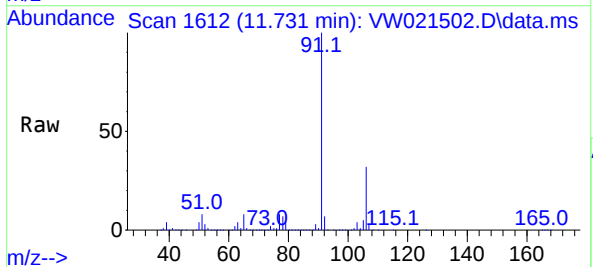


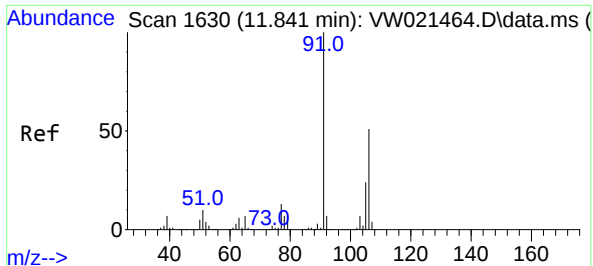
Tgt Ion:112 Resp: 16523
Ion Ratio Lower Upper
112 100
114 28.4 22.4 41.6
77 53.8 50.2 75.4



#52
Ethylbenzene
Concen: 47.932 ug/L
RT: 11.731 min Scan# 1612
Delta R.T. -0.000 min
Lab File: VW021502.D
Acq: 20 Dec 2021 16:48

Tgt Ion: 91 Resp: 328989
Ion Ratio Lower Upper
91 100
106 32.1 21.5 39.9

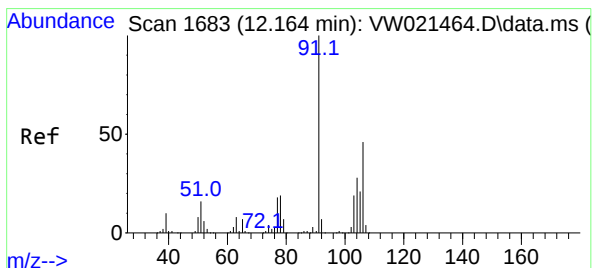
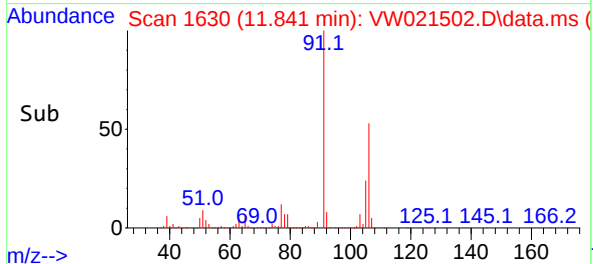
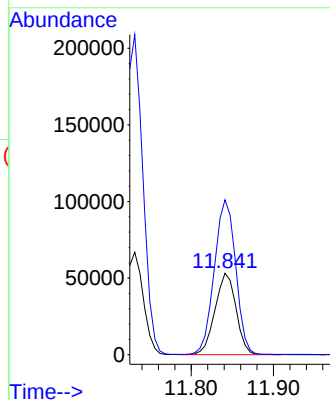
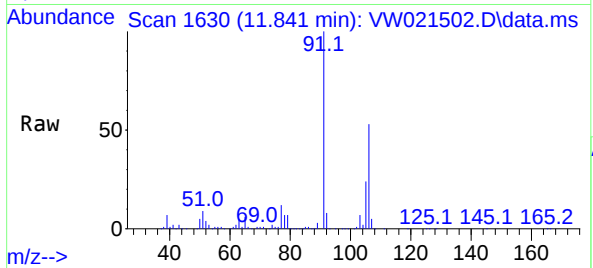




#53
m,p-Xylene
Concen: 34.095 ug/L
RT: 11.841 min Scan# 1630
Delta R.T. 0.006 min
Lab File: VW021502.D
Acq: 20 Dec 2021 16:48

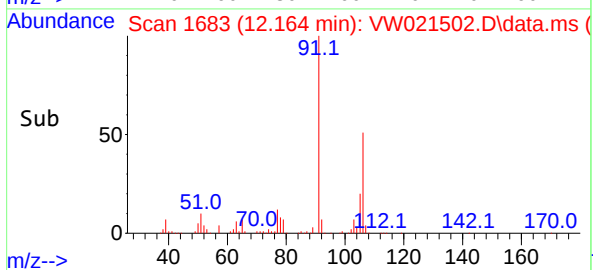
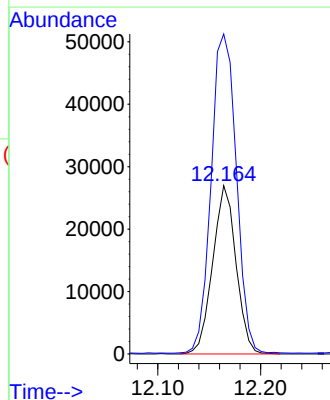
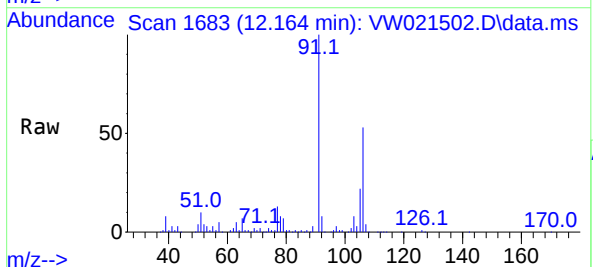
Instrument :
MSVOA_W
ClientSampleId :

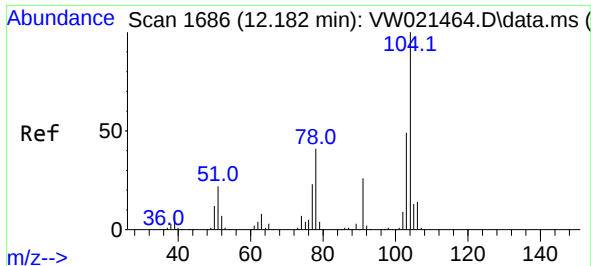
Tgt Ion:106 Resp: 94405
Ion Ratio Lower Upper
106 100
91 190.3 149.9 278.3



#54
o-Xylene
Concen: 16.139 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VW021502.D
Acq: 20 Dec 2021 16:48

Tgt Ion:106 Resp: 42409
Ion Ratio Lower Upper
106 100
91 190.1 153.6 285.3

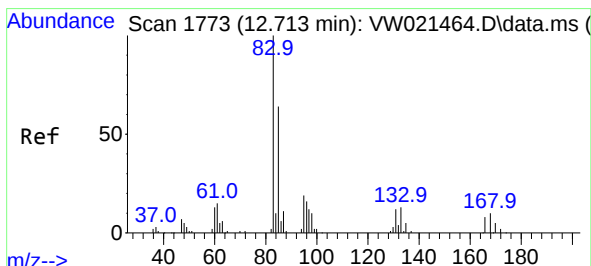
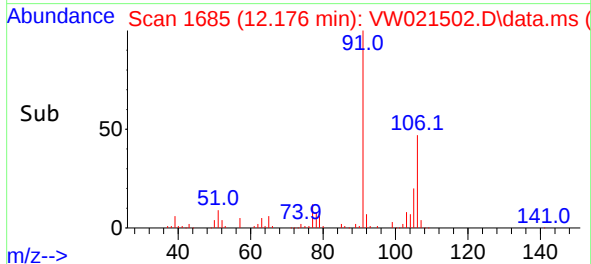
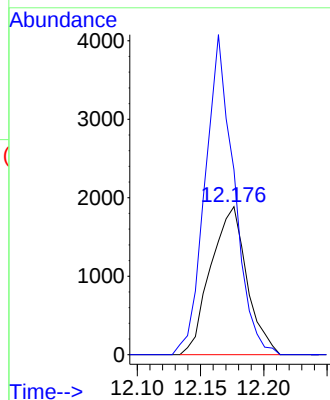
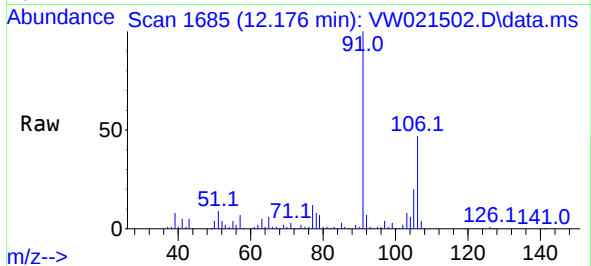




#55
Styrene
Concen: 0.838 ug/L
RT: 12.176 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VW021502.D
Acq: 20 Dec 2021 16:48

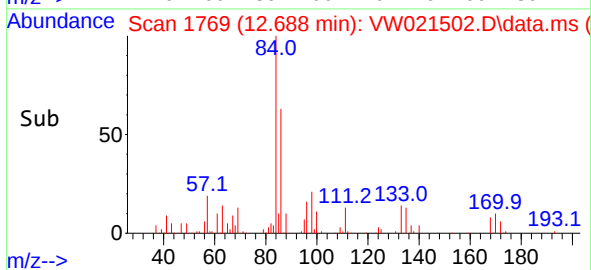
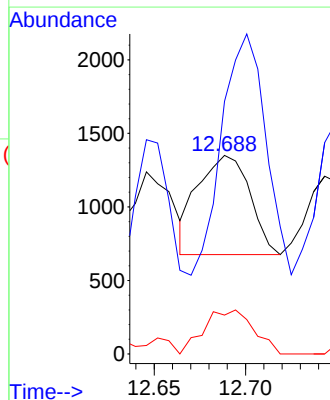
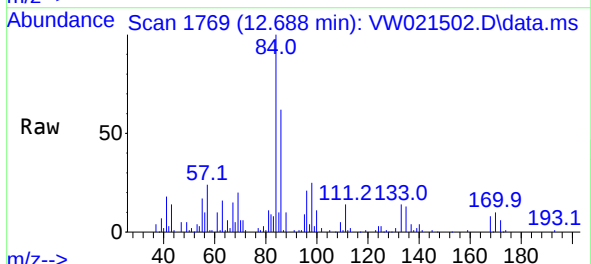
Instrument :
MSVOA_W
ClientSampleId :

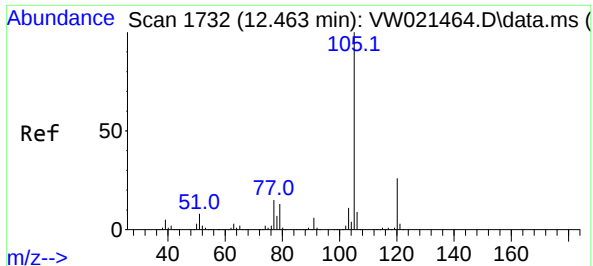
Tgt Ion:104 Resp: 3750
Ion Ratio Lower Upper
104 100
78 124.9 34.4 64.0#



#57
1,1,2,2-Tetrachloroethane
Concen: 1.237 ug/L
RT: 12.688 min Scan# 1769
Delta R.T. -0.024 min
Lab File: VW021502.D
Acq: 20 Dec 2021 16:48

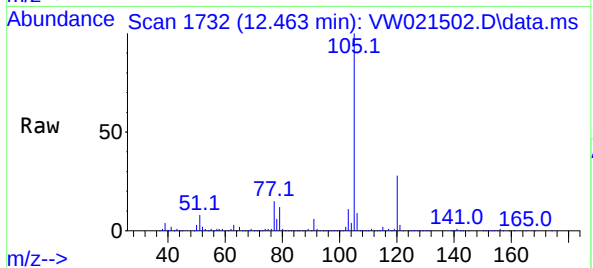
Tgt Ion: 83 Resp: 1330
Ion Ratio Lower Upper
83 100
85 127.3 44.0 81.6#
131 19.6 6.9 10.3#



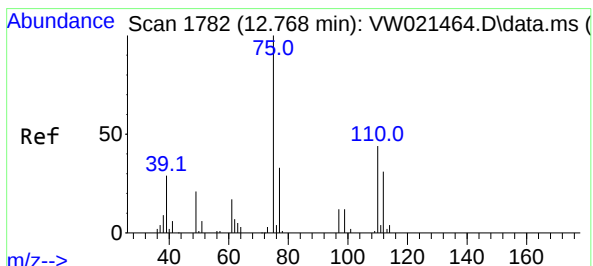
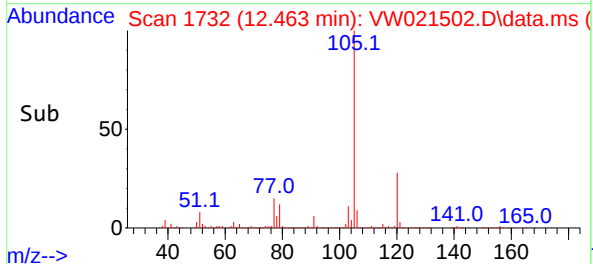
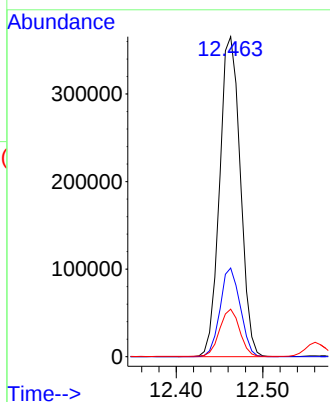


#60
Isopropylbenzene
Concen: 144.963 ug/L
RT: 12.463 min Scan# 1732
Delta R.T. -0.000 min
Lab File: VW021502.D
Acq: 20 Dec 2021 16:48

Instrument :
MSVOA_W
ClientSampleId :

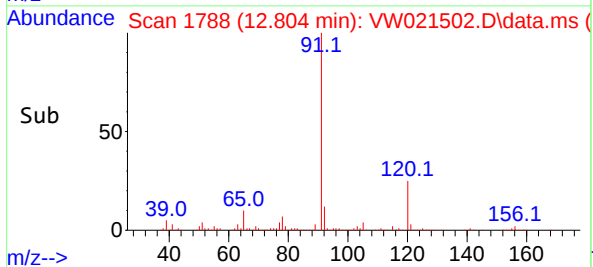
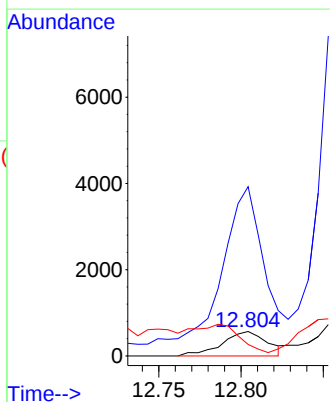
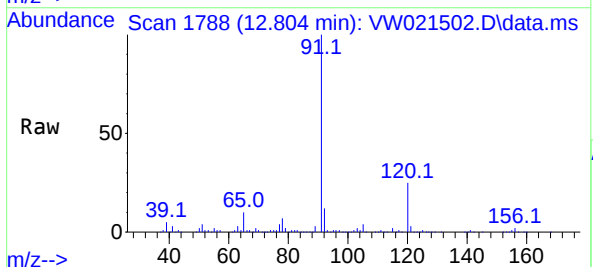


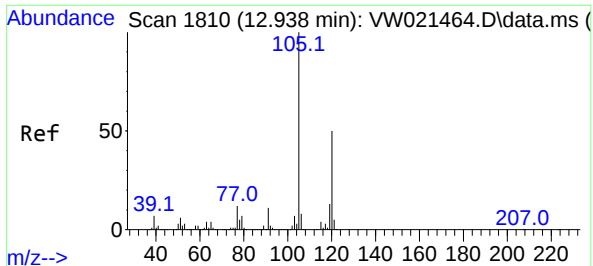
Tgt Ion:105 Resp: 604423
Ion Ratio Lower Upper
105 100
120 27.1 20.1 30.1
77 14.4 13.8 20.8



#61
1,2,3-Trichloropropane
Concen: 2.423 ug/L
RT: 12.804 min Scan# 1788
Delta R.T. 0.037 min
Lab File: VW021502.D
Acq: 20 Dec 2021 16:48

Tgt Ion: 75 Resp: 1082
Ion Ratio Lower Upper
75 100
77 535.4 25.8 38.8#
110 84.5 29.0 43.4#





#62

1,3,5-Trimethylbenzene

Concen: 29.186 ug/L

RT: 12.938 min Scan# 1810

Delta R.T. -0.000 min

Lab File: VW021502.D

Acq: 20 Dec 2021 16:48

Instrument :

MSVOA_W

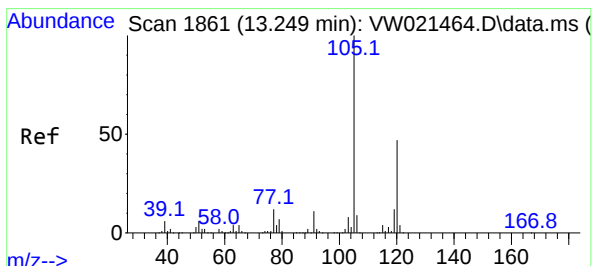
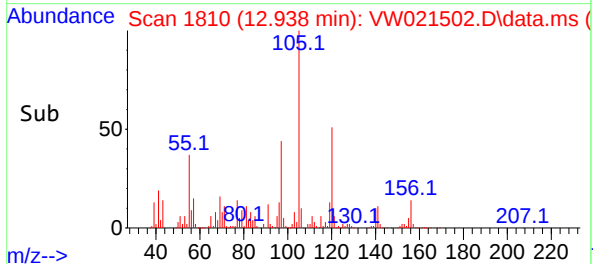
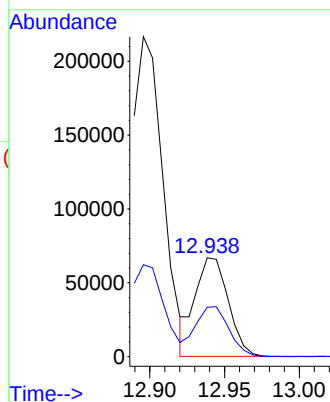
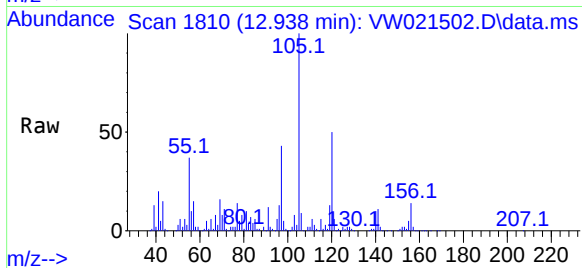
ClientSampleId :

Tgt Ion:105 Resp: 103553

Ion Ratio Lower Upper

105 100

120 51.0 37.4 56.2



#63

1,2,4-Trimethylbenzene

Concen: 430.514 ug/L

RT: 13.249 min Scan# 1861

Delta R.T. -0.000 min

Lab File: VW021502.D

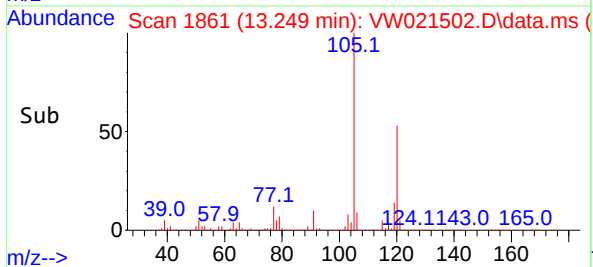
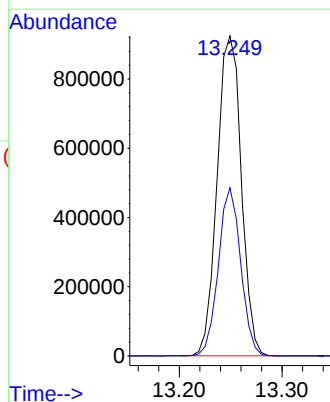
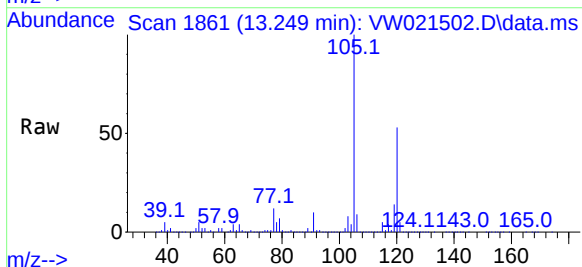
Acq: 20 Dec 2021 16:48

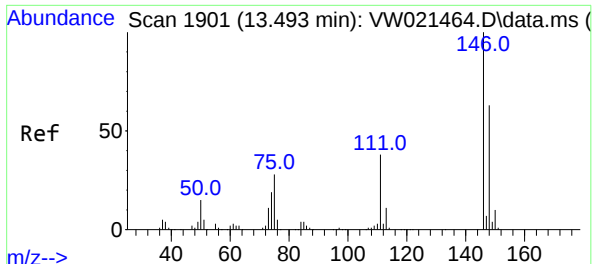
Tgt Ion:105 Resp: 1506804

Ion Ratio Lower Upper

105 100

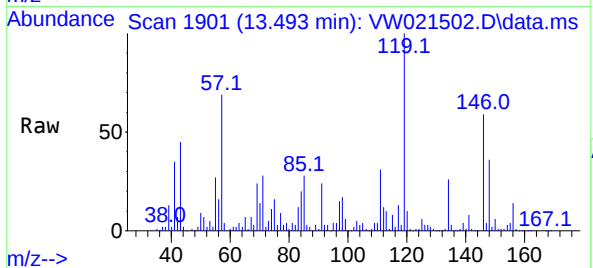
120 48.6 35.0 52.6



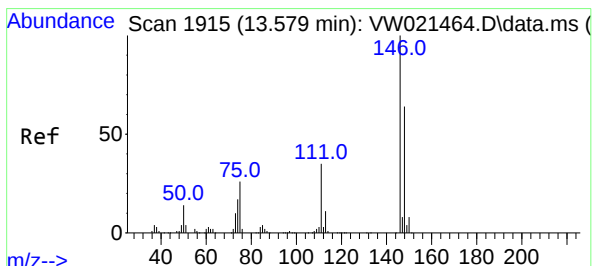
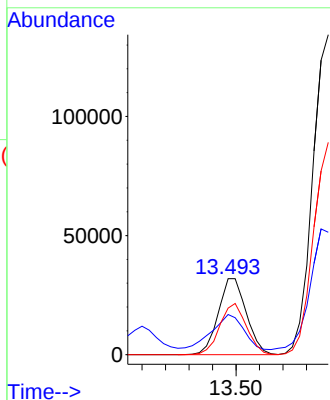
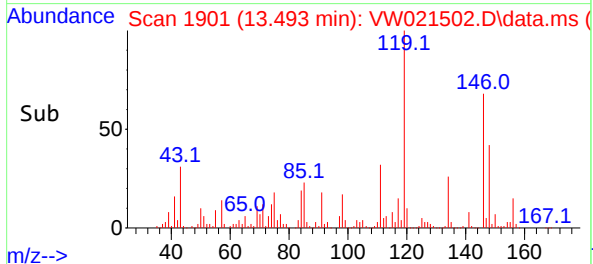


#64
1,3-Dichlorobenzene
Concen: 26.959 ug/L
RT: 13.493 min Scan# 1901
Delta R.T. -0.000 min
Lab File: VW021502.D
Acq: 20 Dec 2021 16:48

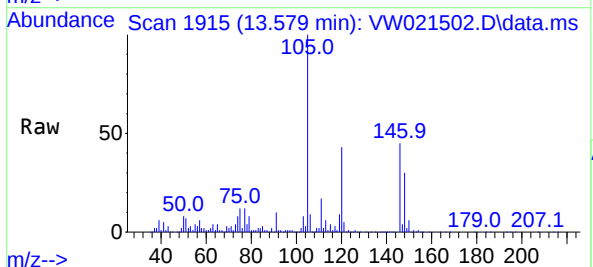
Instrument :
MSVOA_W
ClientSampleId :



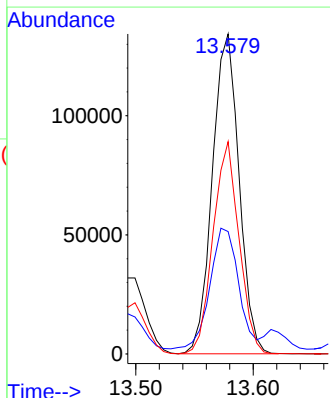
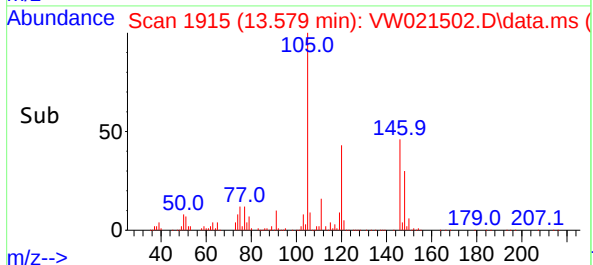
Tgt Ion:146 Resp: 53020
Ion Ratio Lower Upper
146 100
111 52.8 29.8 55.3
148 61.3 46.2 85.8

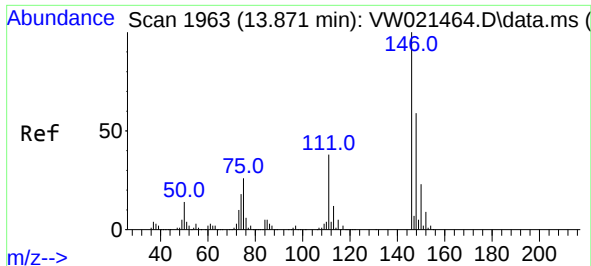


#65
1,4-Dichlorobenzene
Concen: 108.633 ug/L
RT: 13.579 min Scan# 1915
Delta R.T. 0.006 min
Lab File: VW021502.D
Acq: 20 Dec 2021 16:48



Tgt Ion:146 Resp: 212263
Ion Ratio Lower Upper
146 100
111 38.2 29.0 53.9
148 66.3 46.9 87.1





#67

1,2-Dichlorobenzene

Concen: 235.975 ug/L

RT: 13.865 min Scan# 1963

Delta R.T. -0.000 min

Lab File: VW021502.D

Acq: 20 Dec 2021 16:48

Instrument :

MSVOA_W

ClientSampleId :

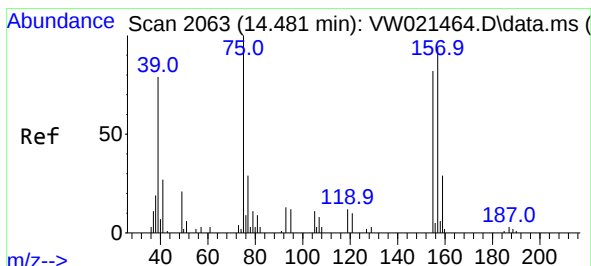
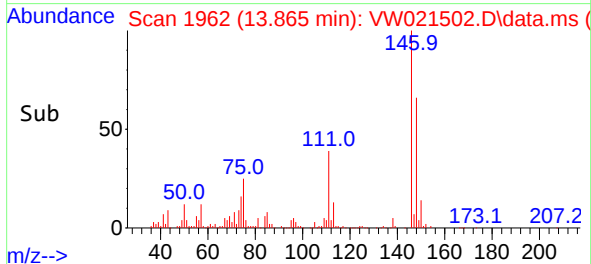
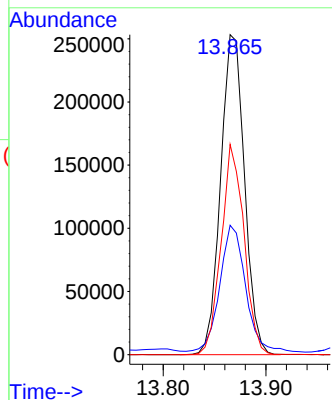
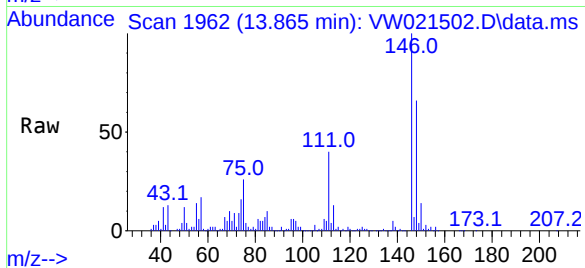
Tgt Ion:146 Resp: 408574

Ion Ratio Lower Upper

146 100

111 40.5 33.1 49.7

148 65.7 47.4 71.2



#68

1,2-Dibromo-3-chloropropane

Concen: 147.902 ug/L

RT: 14.414 min Scan# 2052

Delta R.T. -0.067 min

Lab File: VW021502.D

Acq: 20 Dec 2021 16:48

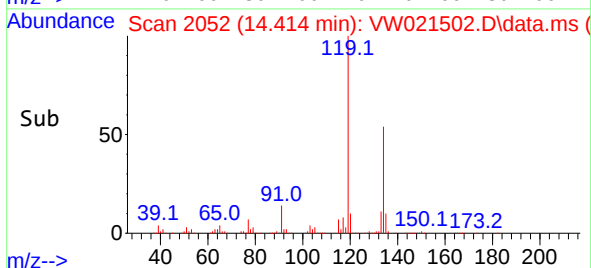
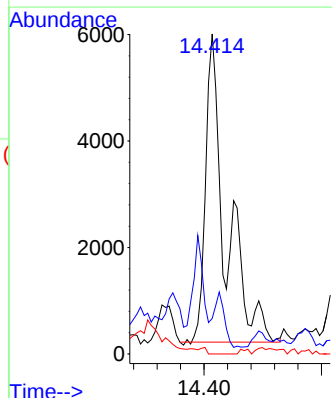
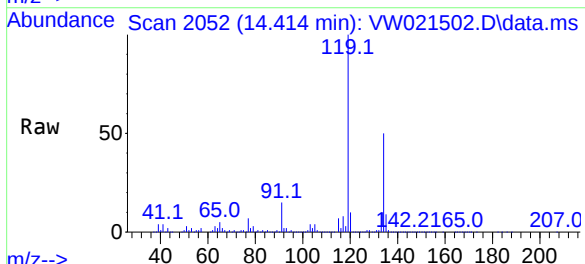
Tgt Ion: 75 Resp: 13624

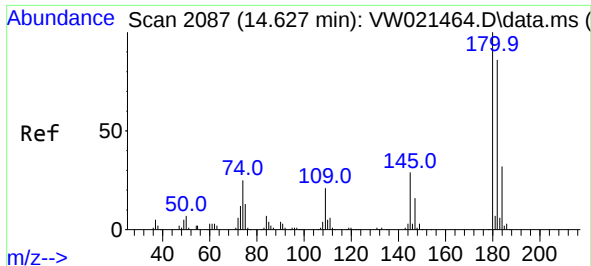
Ion Ratio Lower Upper

75 100

155 11.1 54.2 81.2#

157 0.0 69.4 104.2#





#69

1,3,5-Trichlorobenzene

Concen: 9.560 ug/L

RT: 14.627 min Scan# 2087

Delta R.T. -0.000 min

Lab File: VW021502.D

Acq: 20 Dec 2021 16:48

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:180 Resp: 14053

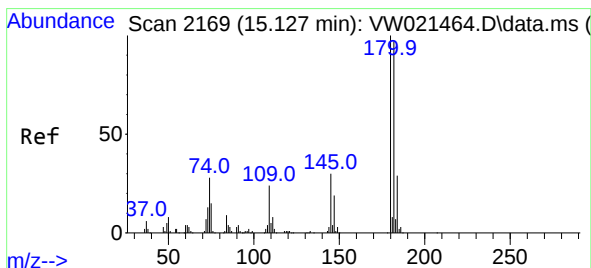
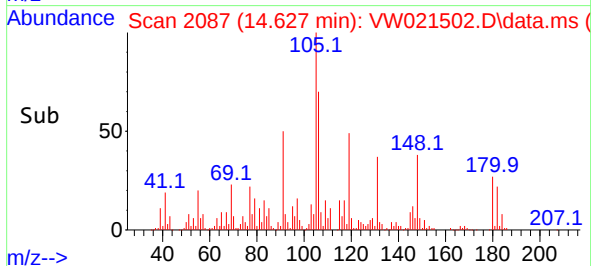
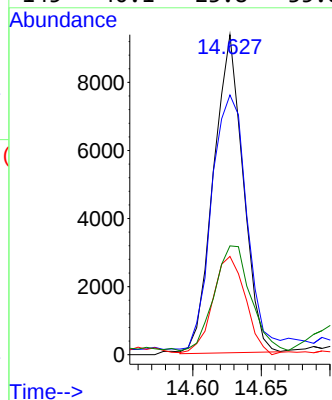
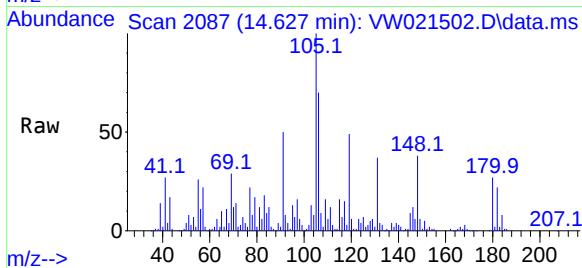
Ion Ratio Lower Upper

180 100

182 93.7 75.4 113.0

184 34.3 23.8 35.8

145 40.1 23.8 35.8#



#70

1,2,4-trichlorobenzene

Concen: 21.951 ug/L

RT: 15.127 min Scan# 2169

Delta R.T. -0.006 min

Lab File: VW021502.D

Acq: 20 Dec 2021 16:48

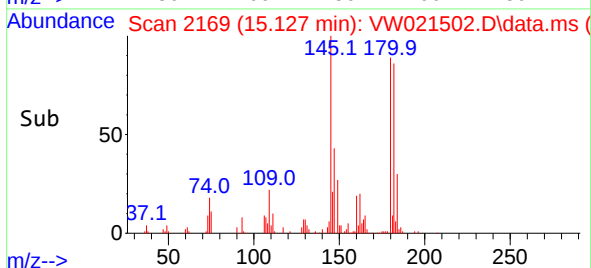
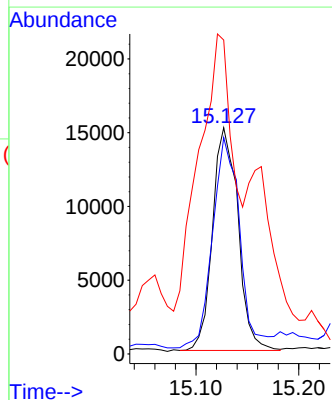
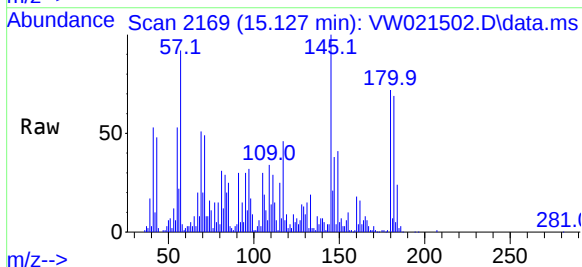
Tgt Ion:180 Resp: 25953

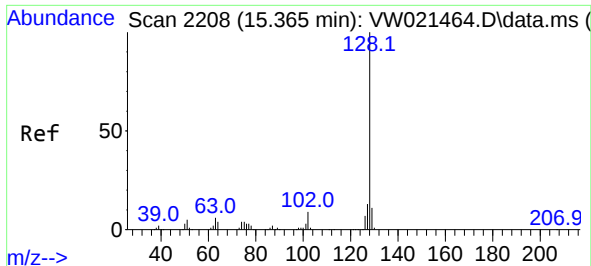
Ion Ratio Lower Upper

180 100

182 100.2 79.0 118.6

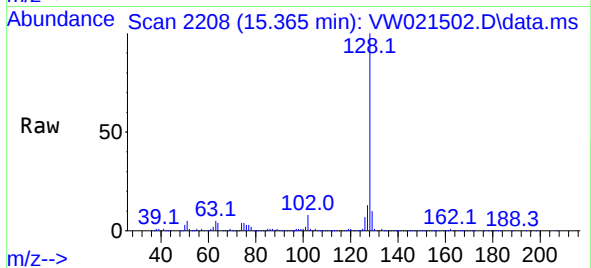
145 170.5 26.0 39.0#



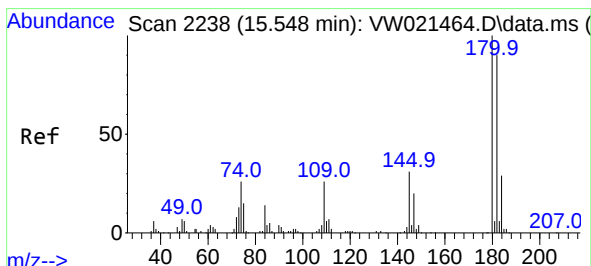
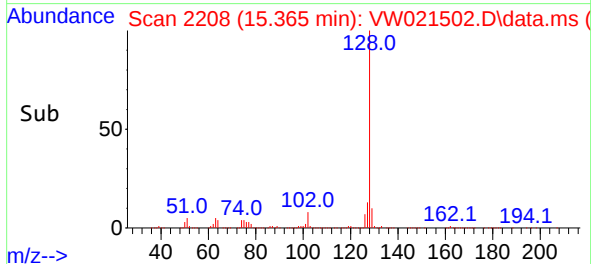
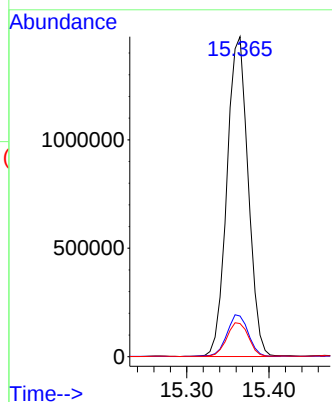


#71
Naphthalene
Concen: 1375.071 ug/L
RT: 15.365 min Scan# 21
Delta R.T. 0.006 min
Lab File: VW021502.D
Acq: 20 Dec 2021 16:48

Instrument :
MSVOA_W
ClientSampleId :



Tgt Ion:128 Resp: 2641256
Ion Ratio Lower Upper
128 100
127 13.3 10.7 16.1
129 10.9 8.6 12.8



#72
1,2,3-Trichlorobenzene
Concen: 2.596 ug/L
RT: 15.560 min Scan# 2240
Delta R.T. 0.012 min
Lab File: VW021502.D
Acq: 20 Dec 2021 16:48

Tgt Ion:180 Resp: 2537
Ion Ratio Lower Upper
180 100
182 47.5 76.6 114.8#
145 1073.7 27.4 41.0#

