

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW120121\
 Data File : VW021006.D
 Acq On : 01 Dec 2021 16:58
 Operator : SY/VA
 Sample : M4868-07
 Misc : 6.36g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 02 01:59:12 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM111521SMA.M
 Quant Title : SFAM01.0
 QLast Update : Thu Dec 02 01:54:41 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	1311	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.628	117	1170	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.554	152	654	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.361	65	176	11.574	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	46.280%
7) Chloroethane-d5	2.910	69	122	12.439	ug/L	0.02
Spiked Amount	25.000	Range	30 - 150	Recovery	=	49.760%
11) 1,1-Dichloroethene-d2	4.038	63	260	8.837	ug/L	0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	35.360%#
21) 2-Butanone-d5	0.000	46	0	0.000	ug/L	
Spiked Amount	50.000	Range	20 - 135	Recovery	=	0.000%#
24) Chloroform-d	7.647	84	427	12.927	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	51.720%
26) 1,2-Dichloroethane-d4	8.311	65	207	12.346	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	49.400%#
32) Benzene-d6	8.275	84	1010	16.379	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	65.520%
36) 1,2-Dichloropropane-d6	9.275	67	275	15.661	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	62.640%#
41) Toluene-d8	10.317	98	891	14.558	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	58.240%
43) trans-1,3-Dichloroprop...	10.585	79	110	13.253	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	53.000%
47) 2-Hexanone-d5	0.000	63	0	0.000	ug/L	
Spiked Amount	50.000	Range	20 - 135	Recovery	=	0.000%#
56) 1,1,2,2-Tetrachloroeth...	12.695	84	318	23.640	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	94.560%
66) 1,2-Dichlorobenzene-d4	13.853	152	430	18.447	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	73.800%#
Target Compounds						
					Qvalue	
13) Acetone	4.129	43	77	22.722	ug/L	# 49
20) cis-1,2-Dichloroethene	7.171	96	840	44.025	ug/L	81
22) 2-Butanone	7.251	43	783	170.059	ug/L	# 52
33) Benzene	8.330	78	757	11.427	ug/L	100
34) Trichloroethene	9.098	95	858	46.305	ug/L	89
40) 4-Methyl-2-pentanone	10.104	43	43	4.686	ug/L	# 1
42) Toluene	10.390	91	5306	71.209	ug/L	98
45) 1,1,2-Trichloroethane	10.768	97	40	3.336	ug/L	# 14
46) Tetrachloroethene	10.854	164	372	21.866	ug/L	# 67
48) 2-Hexanone	10.933	43	218	34.297	ug/L	# 35
49) Dibromochloromethane	10.866	129	304	18.390	ug/L	# 10
51) Chlorobenzene	11.652	112	246	4.964	ug/L	# 92
52) Ethylbenzene	11.731	91	5785	70.063	ug/L	94
53) m,p-Xylene	11.835	106	8004	237.437	ug/L	88
54) o-Xylene	12.164	106	2358	72.834	ug/L	86
55) Styrene	12.183	104	1346	25.038	ug/L	99
57) 1,1,2,2-Tetrachloroethane	12.780	83	105	7.901	ug/L	# 26
60) Isopropylbenzene	12.463	105	2811	31.557	ug/L	93
61) 1,2,3-Trichloropropane	11.835	75	190	19.806	ug/L	# 1

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 Quant Title : SFAM01.0
 QLast Update : Thu Dec 02 01:54:41 2021
 Response via : Initial Calibration

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

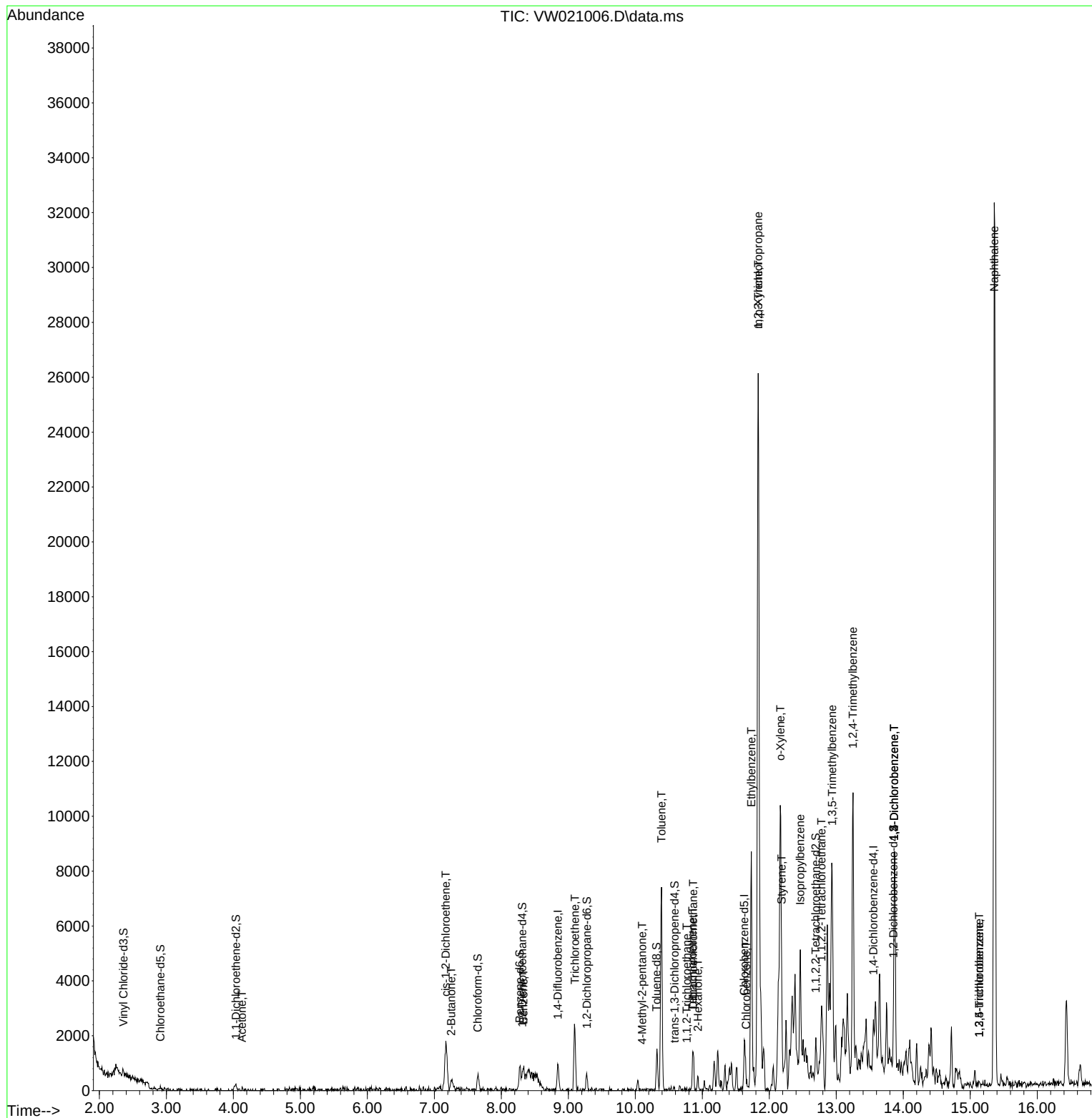
62) 1,3,5-Trimethylbenzene	12.939	105	1691	22.504	ug/L	90
63) 1,2,4-Trimethylbenzene	13.249	105	5899	79.566	ug/L	97
65) 1,4-Dichlorobenzene	13.865	146	555	13.174	ug/L	84
67) 1,2-Dichlorobenzene	13.865	146	555	15.081	ug/L	89
69) 1,3,5-Trichlorobenzene	15.133	180	59	1.784	ug/L #	64
70) 1,2,4-trichlorobenzene	15.133	180	59	2.180	ug/L #	72
71) Naphthalene	15.359	128	27586	625.623	ug/L	99

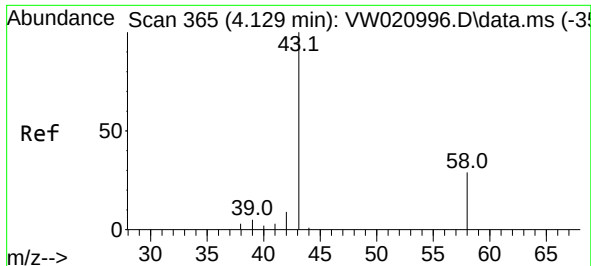
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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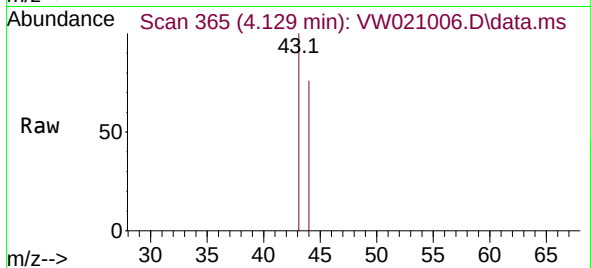
Quant Time: Dec 02 01:59:12 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM111521SMA.M
Quant Title : SFAM01.0
QLast Update : Thu Dec 02 01:54:41 2021
Response via : Initial Calibration



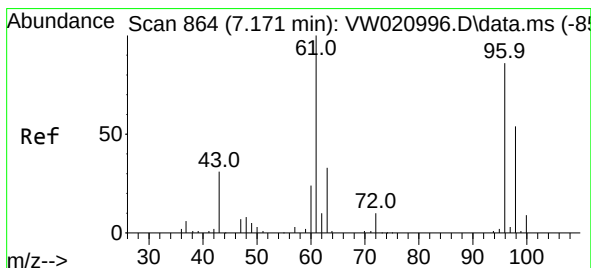
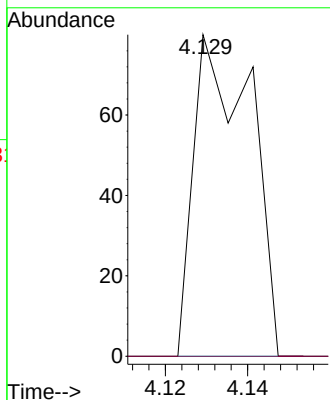
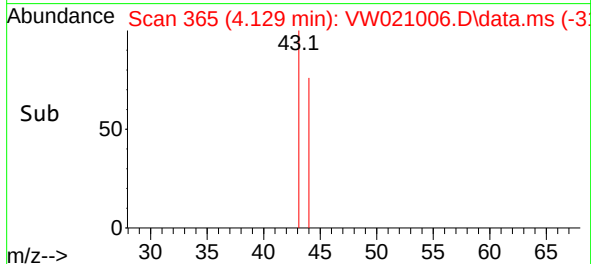


#13
Acetone
Concen: 22.722 ug/L
RT: 4.129 min Scan# 365
Delta R.T. 0.000 min
Lab File: VW021006.D
Acq: 01 Dec 2021 16:58

Instrument :
MSVOA_W
ClientSampleId :

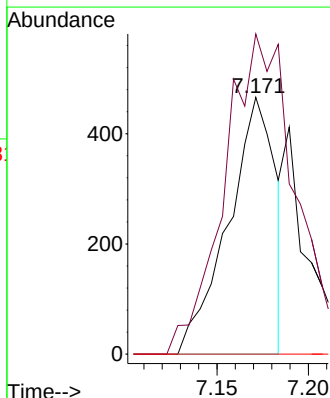
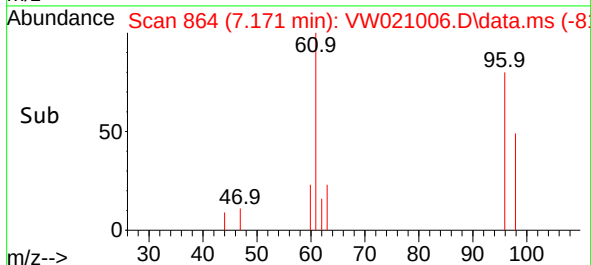
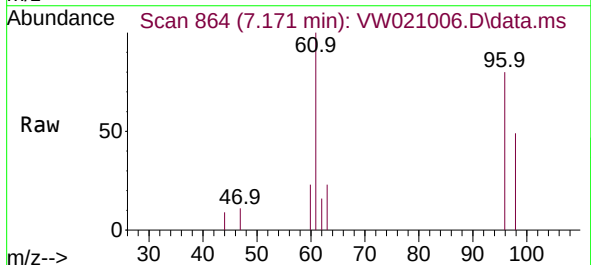


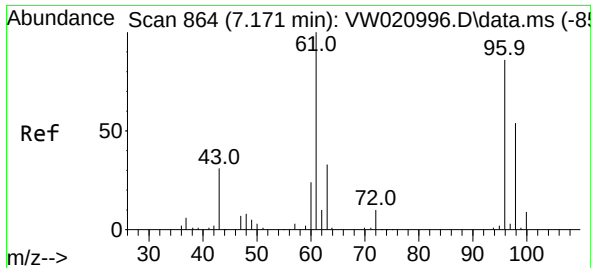
Tgt Ion: 43 Resp: 77
Ion Ratio Lower Upper
43 100
58 0.0 0.0 52.8



#20
cis-1,2-Dichloroethene
Concen: 44.025 ug/L
RT: 7.171 min Scan# 864
Delta R.T. 0.000 min
Lab File: VW021006.D
Acq: 01 Dec 2021 16:58

Tgt Ion: 96 Resp: 840
Ion Ratio Lower Upper
96 100
61 124.7 103.7 192.7
68 0.0 0.0 0.0

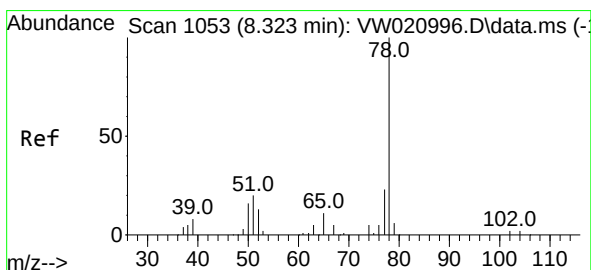
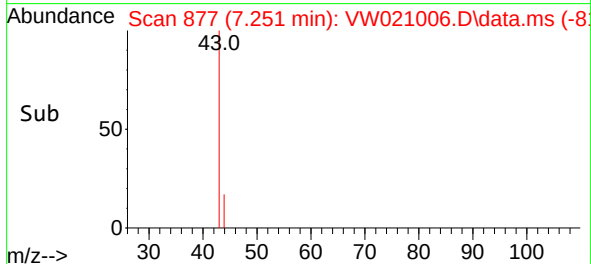
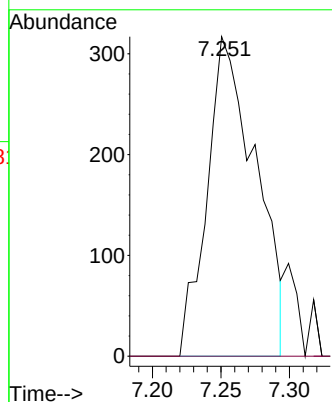
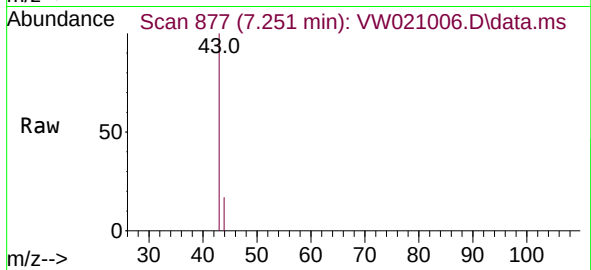




#22
2-Butanone
Concen: 170.059 ug/L
RT: 7.251 min Scan# 81
Delta R.T. 0.079 min
Lab File: VW021006.D
Acq: 01 Dec 2021 16:58

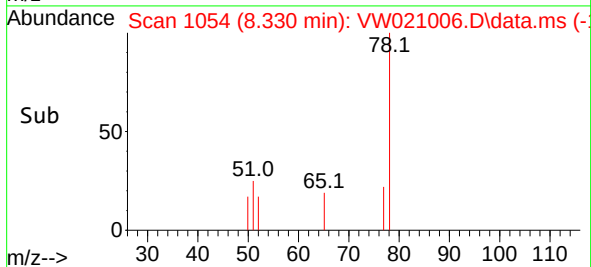
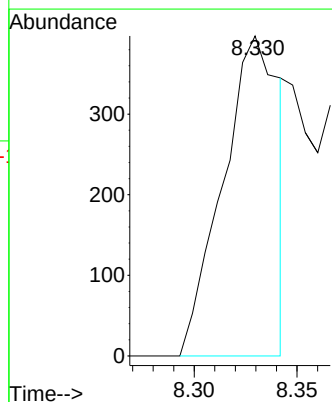
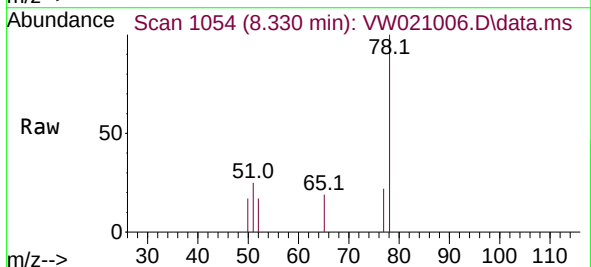
Instrument :
MSVOA_W
ClientSampleId :

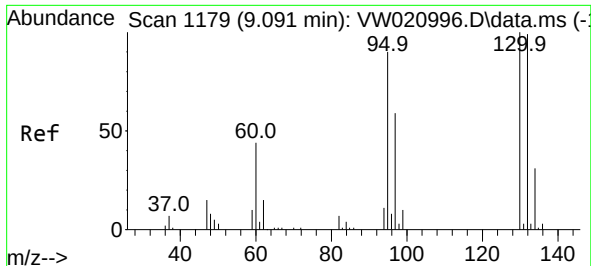
Tgt Ion: 43 Resp: 783
Ion Ratio Lower Upper
43 100
72 0.0 11.8 35.4#



#33
Benzene
Concen: 11.427 ug/L
RT: 8.330 min Scan# 1054
Delta R.T. 0.006 min
Lab File: VW021006.D
Acq: 01 Dec 2021 16:58

Tgt Ion: 78 Resp: 757

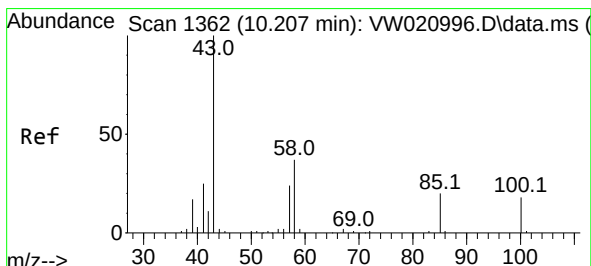
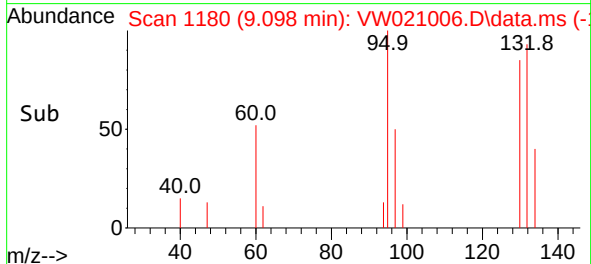
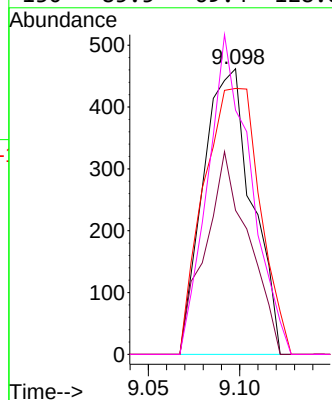
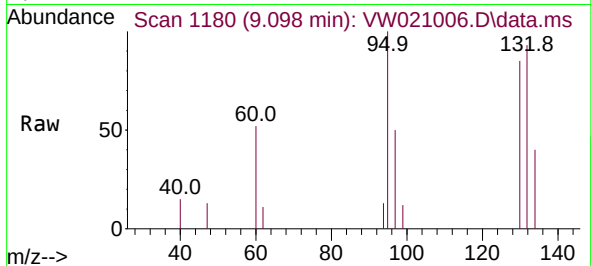




#34
Trichloroethene
Concen: 46.305 ug/L
RT: 9.098 min Scan# 1179
Delta R.T. 0.006 min
Lab File: VW021006.D
Acq: 01 Dec 2021 16:58

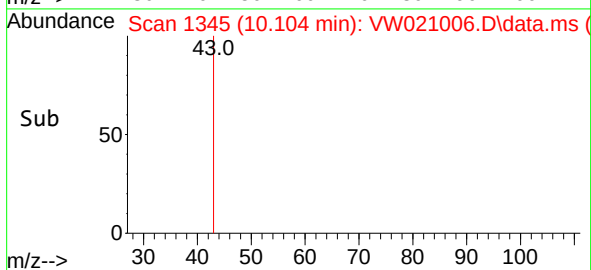
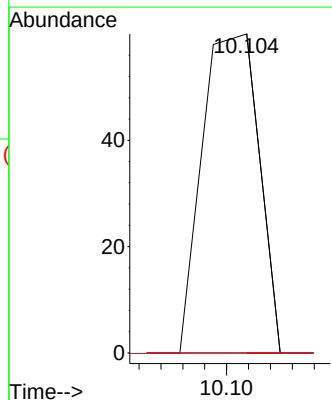
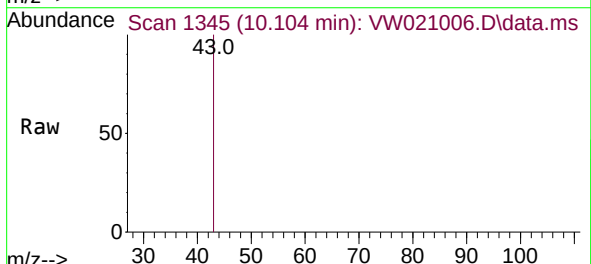
Instrument :
MSVOA_W
ClientSampleId :

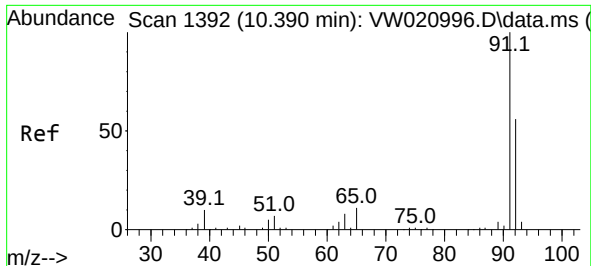
Tgt Ion: 95 Resp: 858
Ion Ratio Lower Upper
95 100
97 50.4 47.0 87.2
132 93.1 65.5 121.6
130 85.5 69.4 128.8



#40
4-Methyl-2-pentanone
Concen: 4.686 ug/L
RT: 10.104 min Scan# 1345
Delta R.T. -0.103 min
Lab File: VW021006.D
Acq: 01 Dec 2021 16:58

Tgt Ion: 43 Resp: 43
Ion Ratio Lower Upper
43 100
58 0.0 28.8 43.2#
100 1532.6 10.0 15.0#





#42

Toluene

Concen: 71.209 ug/L

RT: 10.390 min Scan# 11

Delta R.T. 0.000 min

Lab File: VW021006.D

Acq: 01 Dec 2021 16:58

Instrument :

MSVOA_W

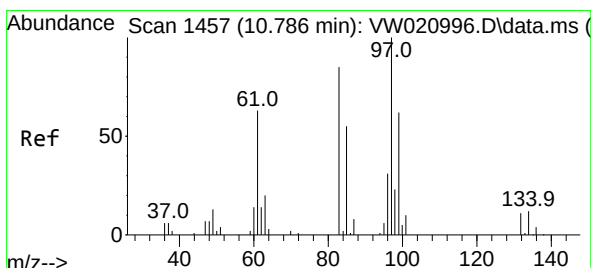
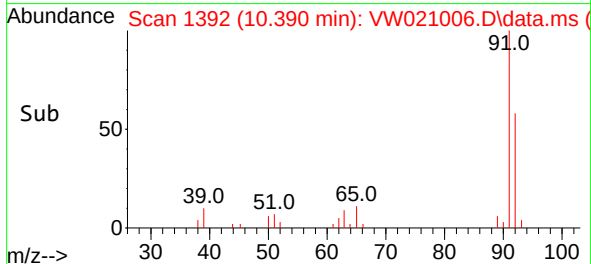
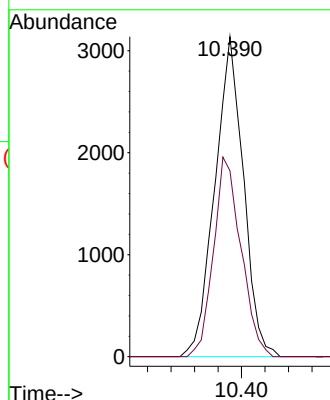
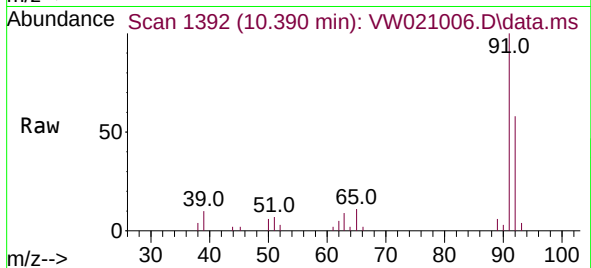
ClientSampleId :

Tgt Ion: 91 Resp: 5306

Ion Ratio Lower Upper

91 100

92 58.1 41.7 77.5



#45

1,1,2-Trichloroethane

Concen: 3.336 ug/L

RT: 10.768 min Scan# 1454

Delta R.T. -0.018 min

Lab File: VW021006.D

Acq: 01 Dec 2021 16:58

Tgt Ion: 97 Resp: 40

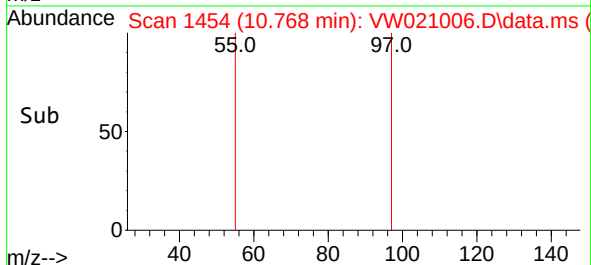
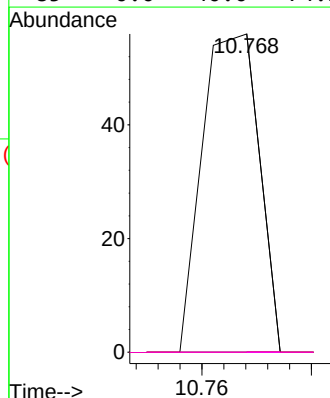
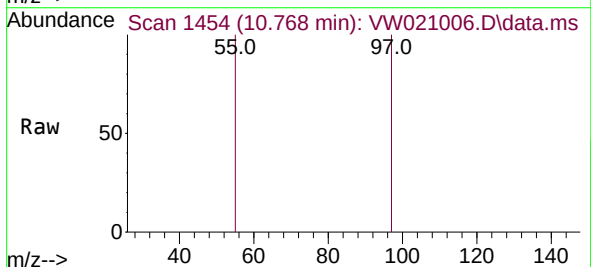
Ion Ratio Lower Upper

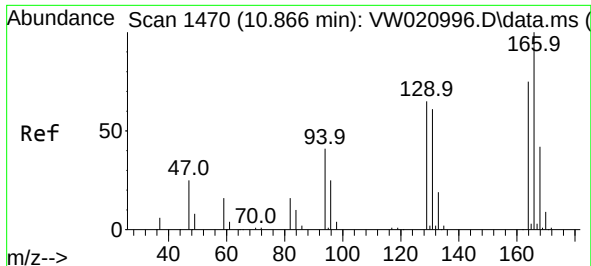
97 100

99 0.0 43.0 79.8#

83 0.0 62.6 116.3#

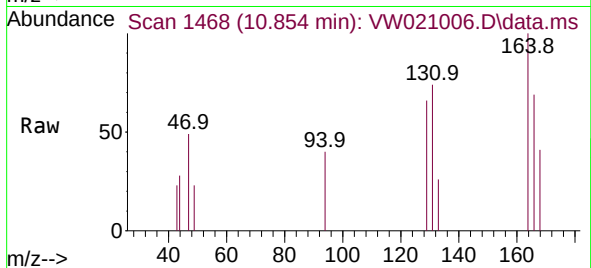
85 0.0 40.0 74.2#



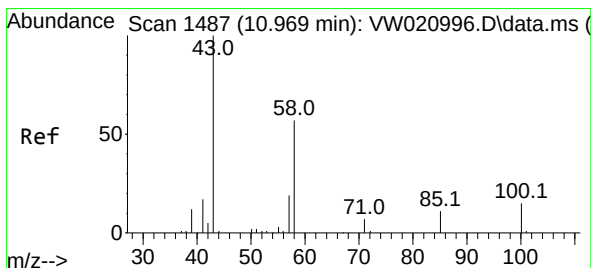
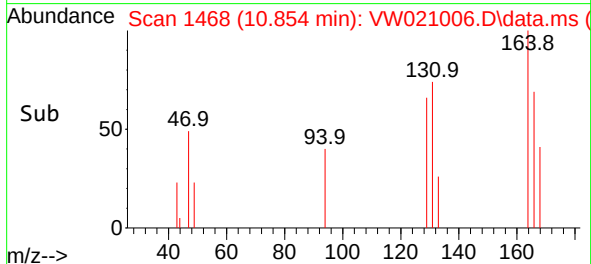
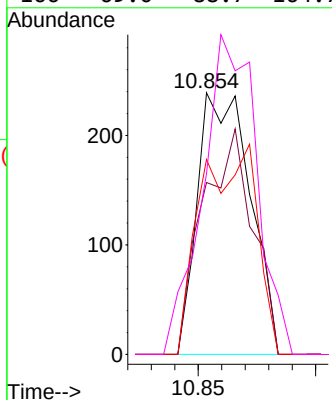


#46
Tetrachloroethene
Concen: 21.866 ug/L
RT: 10.854 min Scan# 1468
Delta R.T. -0.012 min
Lab File: VW021006.D
Acq: 01 Dec 2021 16:58

Instrument :
MSVOA_W
ClientSampleId :

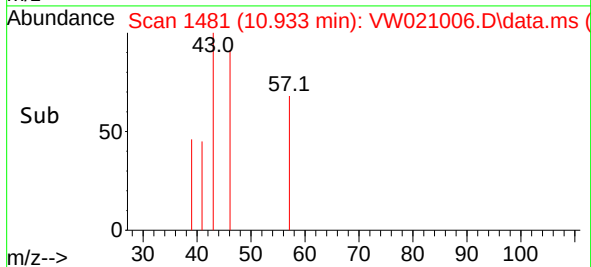
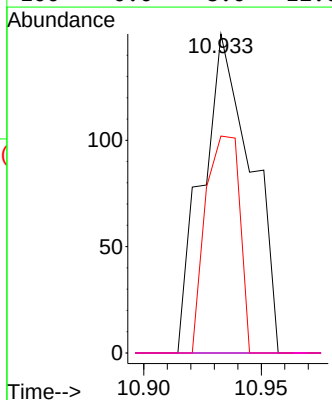
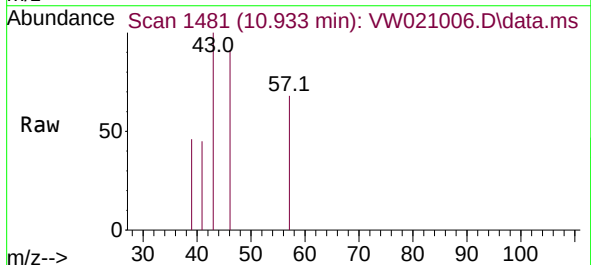


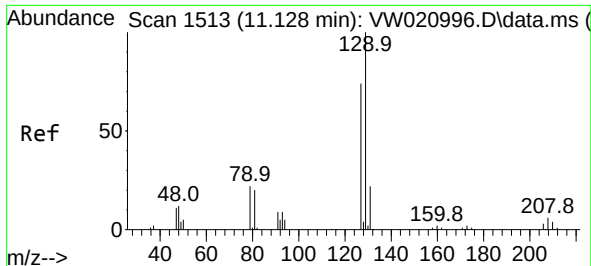
Tgt Ion:164 Resp: 372
Ion Ratio Lower Upper
164 100
129 65.7 65.5 121.7
131 74.5 59.7 110.9
166 69.0 88.7 164.7#



#48
2-Hexanone
Concen: 34.297 ug/L
RT: 10.933 min Scan# 1481
Delta R.T. -0.036 min
Lab File: VW021006.D
Acq: 01 Dec 2021 16:58

Tgt Ion: 43 Resp: 218
Ion Ratio Lower Upper
43 100
58 0.0 40.2 60.2#
57 47.2 14.3 21.5#
100 0.0 8.0 12.0#





#49

Dibromochloromethane

Concen: 18.390 ug/L

RT: 10.866 min Scan# 14

Delta R.T. -0.262 min

Lab File: VW021006.D

Acq: 01 Dec 2021 16:58

Instrument :

MSVOA_W

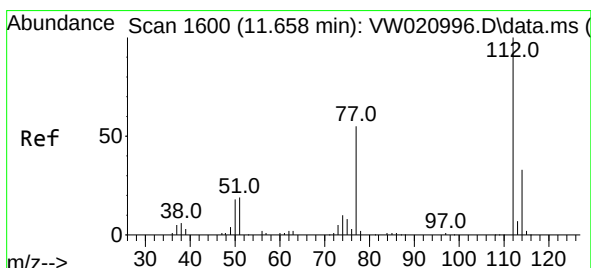
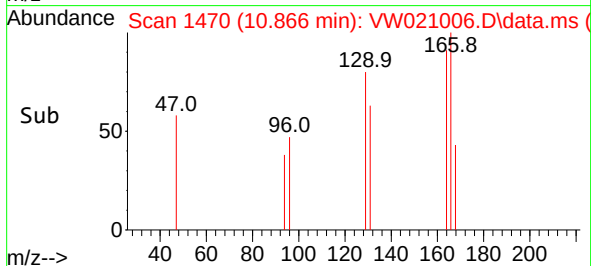
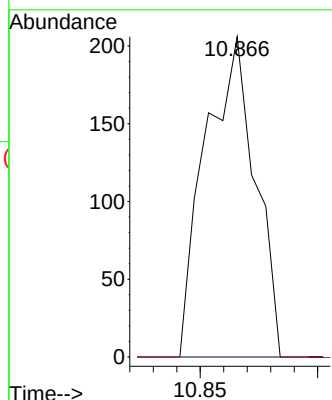
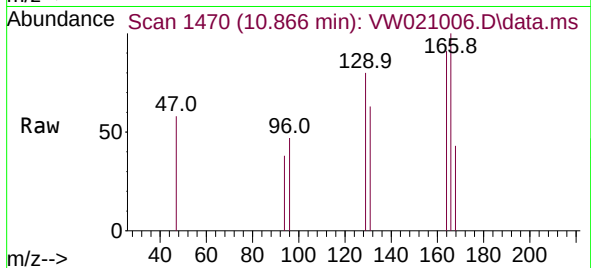
ClientSampleId :

Tgt Ion:129 Resp: 304

Ion Ratio Lower Upper

129 100

127 0.0 55.7 103.5#



#51

Chlorobenzene

Concen: 4.964 ug/L

RT: 11.652 min Scan# 1599

Delta R.T. -0.006 min

Lab File: VW021006.D

Acq: 01 Dec 2021 16:58

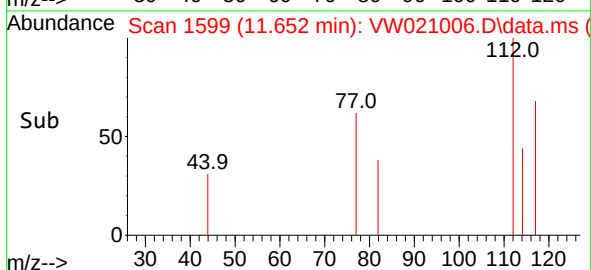
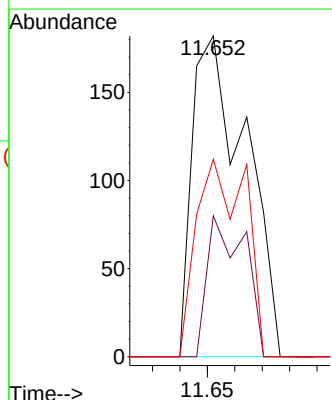
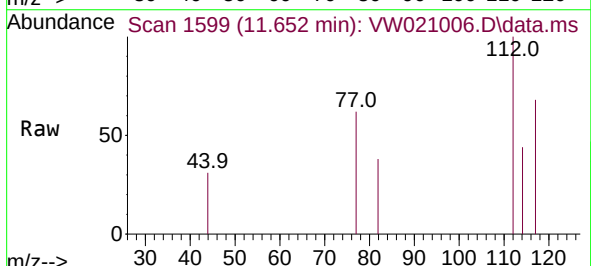
Tgt Ion:112 Resp: 246

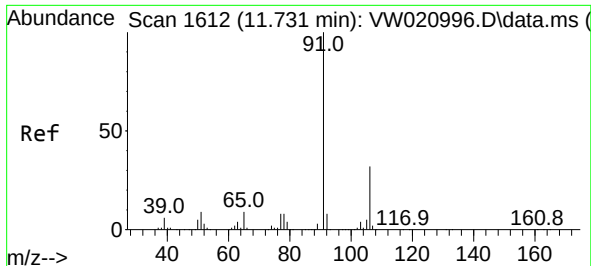
Ion Ratio Lower Upper

112 100

114 44.0 22.4 41.6#

77 61.5 50.2 75.4

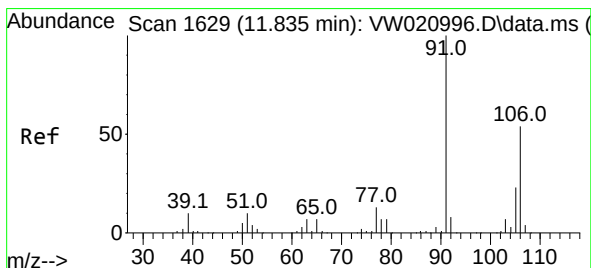
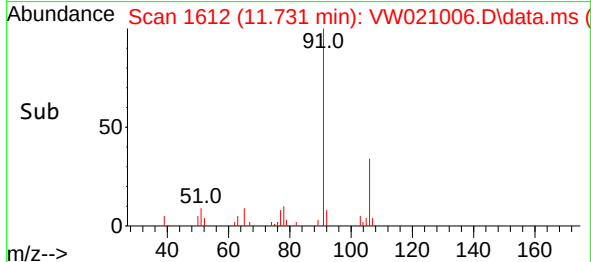
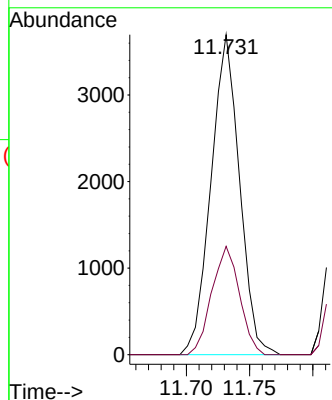
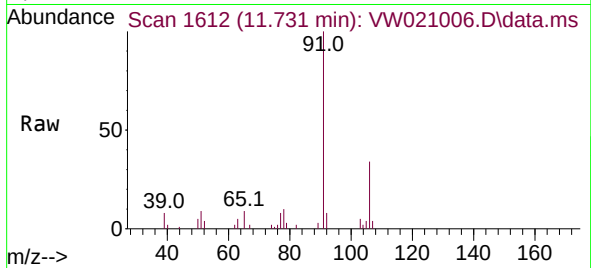




#52
Ethylbenzene
Concen: 70.063 ug/L
RT: 11.731 min Scan# 1612
Delta R.T. 0.000 min
Lab File: VW021006.D
Acq: 01 Dec 2021 16:58

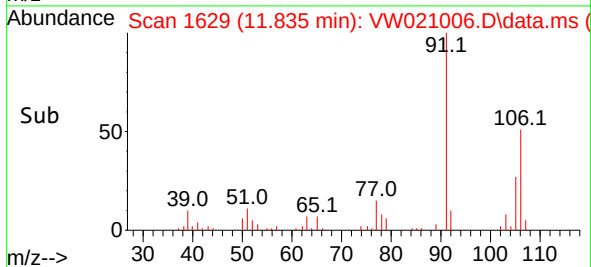
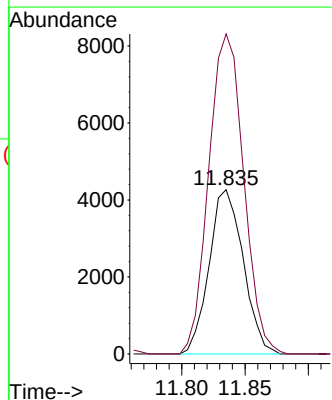
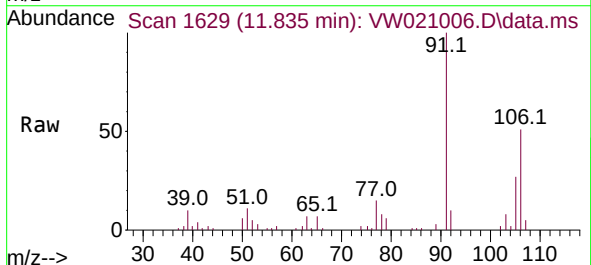
Instrument :
MSVOA_W
ClientSampleId :

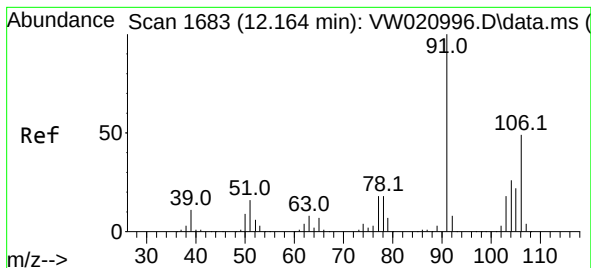
Tgt Ion: 91 Resp: 5785
Ion Ratio Lower Upper
91 100
106 33.8 21.5 39.9



#53
m,p-Xylene
Concen: 237.437 ug/L
RT: 11.835 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VW021006.D
Acq: 01 Dec 2021 16:58

Tgt Ion:106 Resp: 8004
Ion Ratio Lower Upper
106 100
91 194.7 149.9 278.3





#54

o-Xylene

Concen: 72.834 ug/L

RT: 12.164 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW021006.D

Acq: 01 Dec 2021 16:58

Instrument :

MSVOA_W

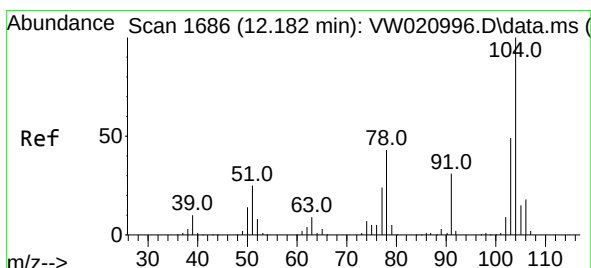
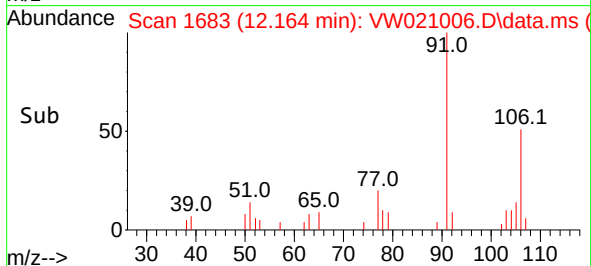
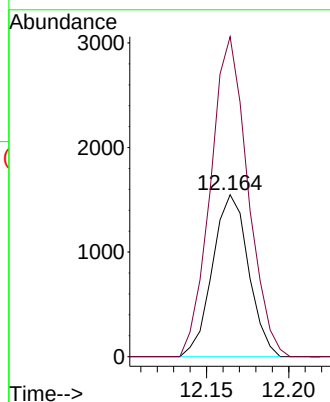
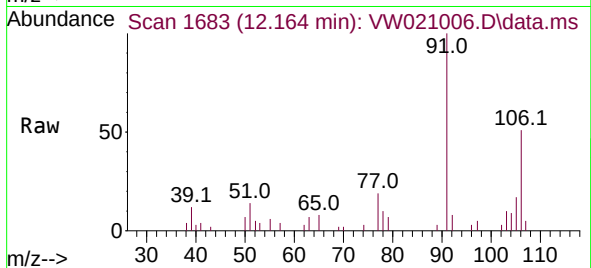
ClientSampleId :

Tgt Ion:106 Resp: 2358

Ion Ratio Lower Upper

106 100

91 197.7 153.6 285.3



#55

Styrene

Concen: 25.038 ug/L

RT: 12.183 min Scan# 1686

Delta R.T. 0.000 min

Lab File: VW021006.D

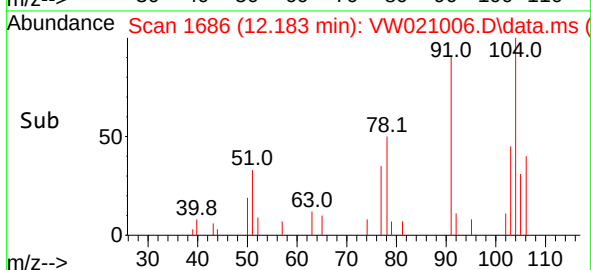
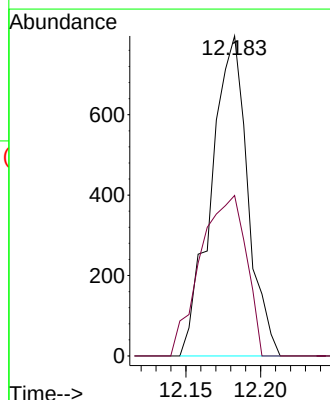
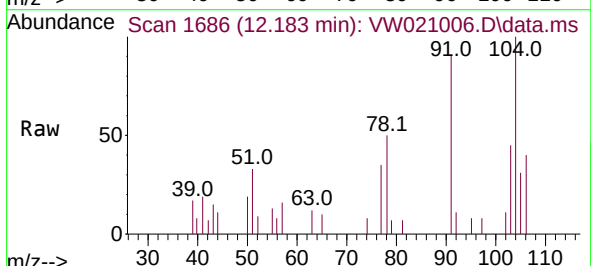
Acq: 01 Dec 2021 16:58

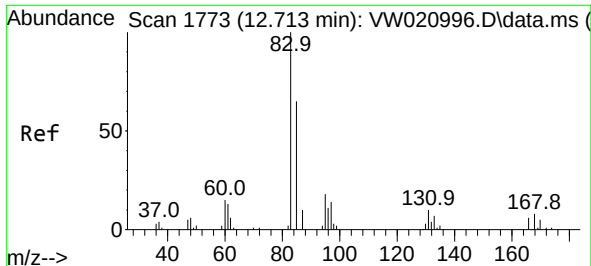
Tgt Ion:104 Resp: 1346

Ion Ratio Lower Upper

104 100

78 50.1 34.4 64.0





#57

1,1,2,2-Tetrachloroethane

Concen: 7.901 ug/L

RT: 12.780 min Scan# 1773

Delta R.T. 0.067 min

Lab File: VW021006.D

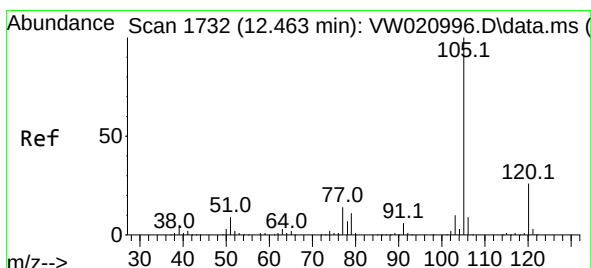
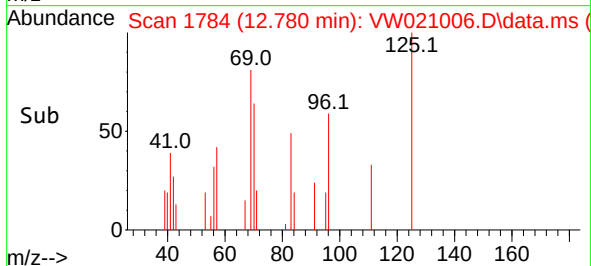
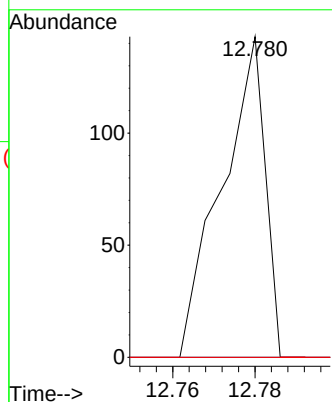
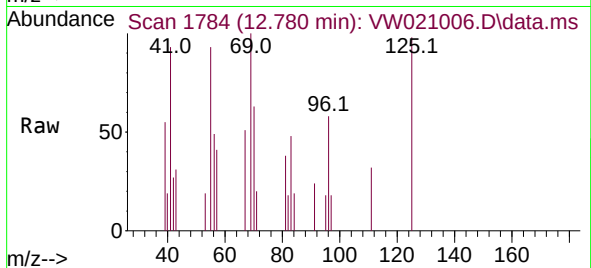
Acq: 01 Dec 2021 16:58

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 83	Resp:	105
Ion Ratio	Lower	Upper
83	100	
85	0.0	44.0
131	0.0	6.9



#60

Isopropylbenzene

Concen: 31.557 ug/L

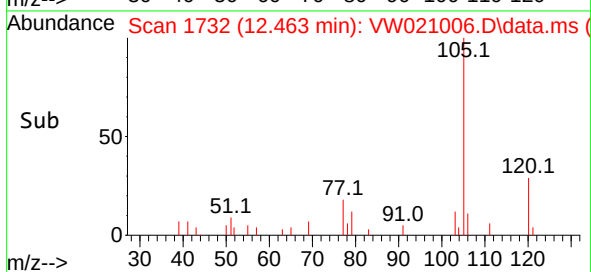
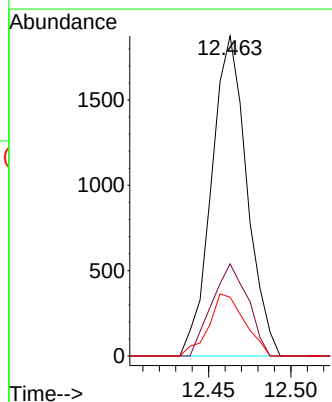
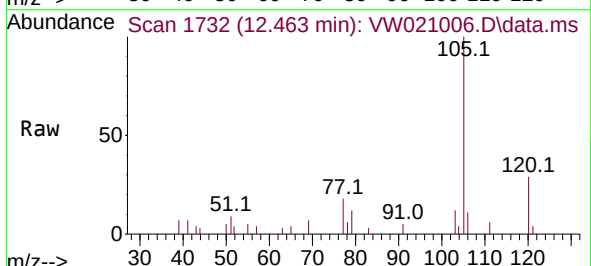
RT: 12.463 min Scan# 1732

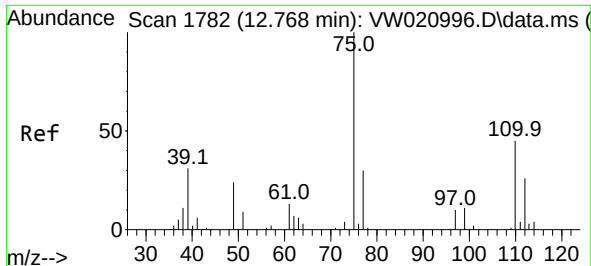
Delta R.T. 0.000 min

Lab File: VW021006.D

Acq: 01 Dec 2021 16:58

Tgt Ion: 105	Resp:	2811
Ion Ratio	Lower	Upper
105	100	
120	29.2	20.1
77	19.6	13.8





#61

1,2,3-Trichloropropane

Concen: 19.806 ug/L

RT: 11.835 min Scan# 1

Delta R.T. -0.933 min

Lab File: VW021006.D

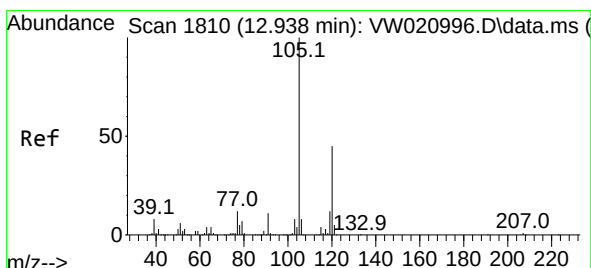
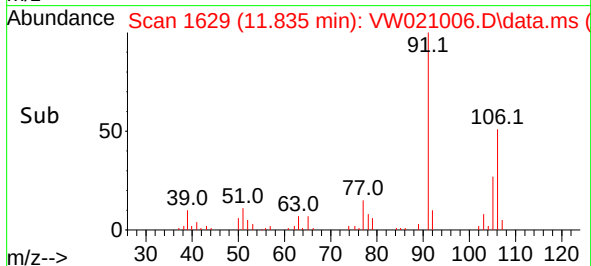
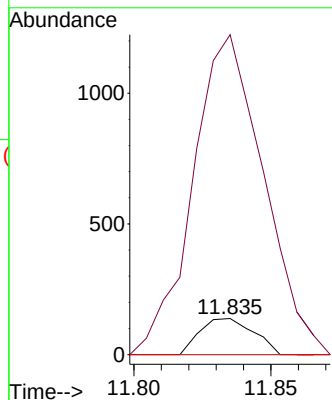
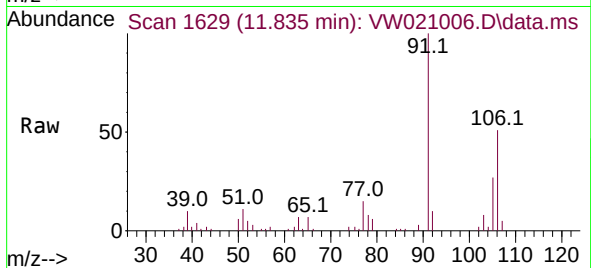
Acq: 01 Dec 2021 16:58

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 75 Resp: 190
 Ion Ratio Lower Upper
 75 100
 77 1157.9 25.8 38.8#
 110 0.0 29.0 43.4#



#62

1,3,5-Trimethylbenzene

Concen: 22.504 ug/L

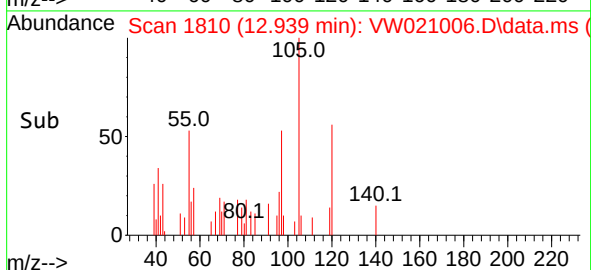
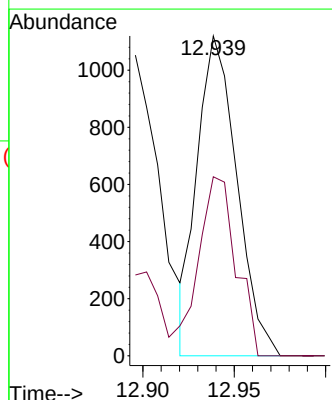
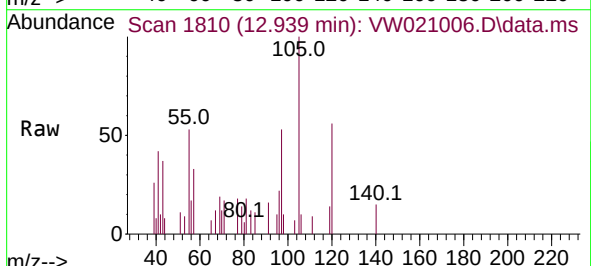
RT: 12.939 min Scan# 1810

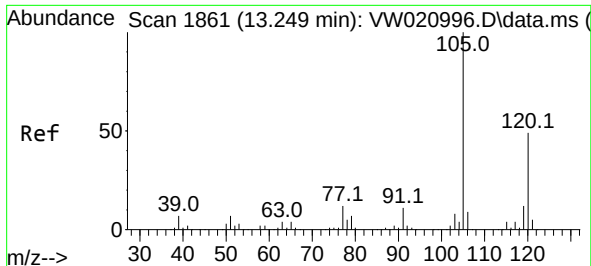
Delta R.T. 0.000 min

Lab File: VW021006.D

Acq: 01 Dec 2021 16:58

Tgt Ion:105 Resp: 1691
 Ion Ratio Lower Upper
 105 100
 120 53.8 37.4 56.2

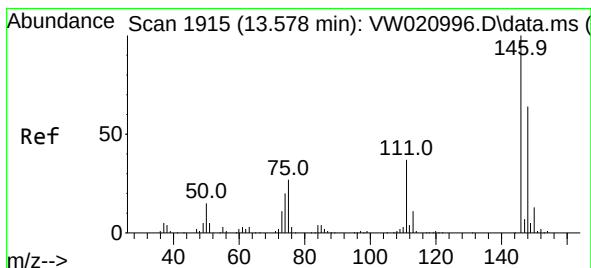
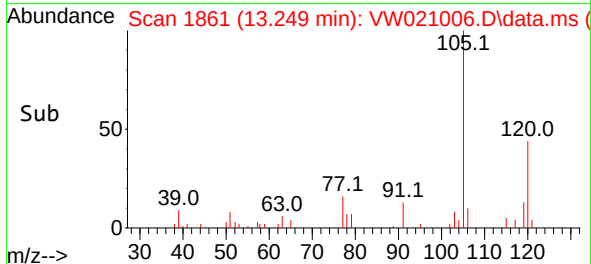
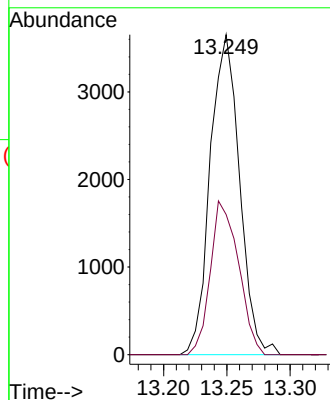
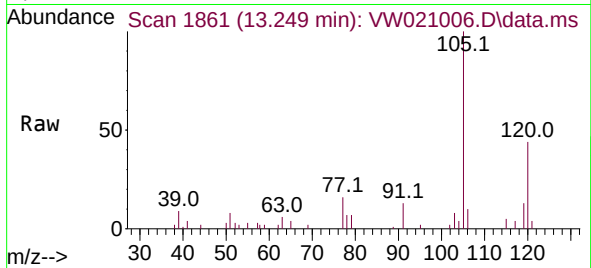




#63
1,2,4-Trimethylbenzene
Concen: 79.566 ug/L
RT: 13.249 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW021006.D
Acq: 01 Dec 2021 16:58

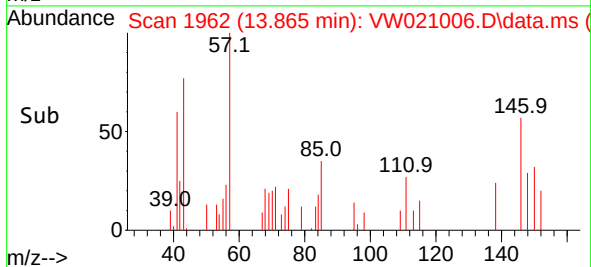
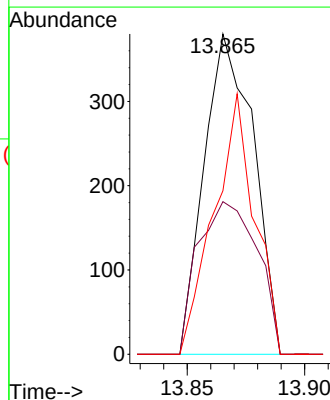
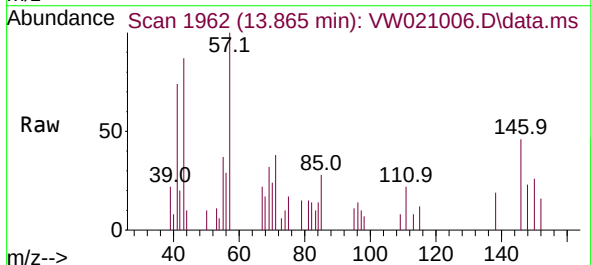
Instrument :
MSVOA_W
ClientSampleId :

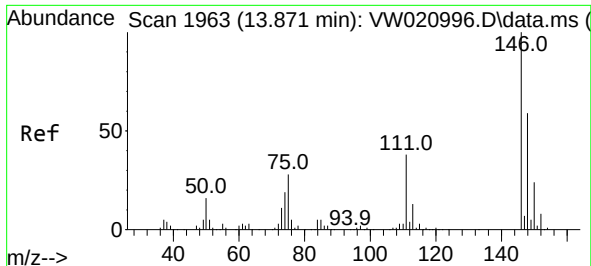
Tgt Ion:105 Resp: 5899
Ion Ratio Lower Upper
105 100
120 46.0 35.0 52.6



#65
1,4-Dichlorobenzene
Concen: 13.174 ug/L
RT: 13.865 min Scan# 1962
Delta R.T. 0.287 min
Lab File: VW021006.D
Acq: 01 Dec 2021 16:58

Tgt Ion:146 Resp: 555
Ion Ratio Lower Upper
146 100
111 47.6 29.0 53.9
148 51.1 46.9 87.1





#67

1,2-Dichlorobenzene

Concen: 15.081 ug/L

RT: 13.865 min Scan# 1962

Delta R.T. -0.006 min

Lab File: VW021006.D

Acq: 01 Dec 2021 16:58

Instrument :

MSVOA_W

ClientSampleId :

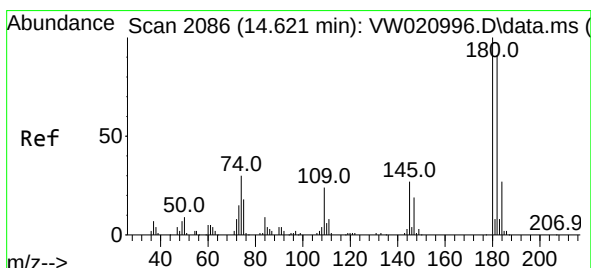
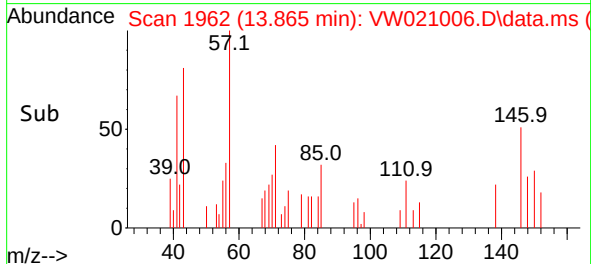
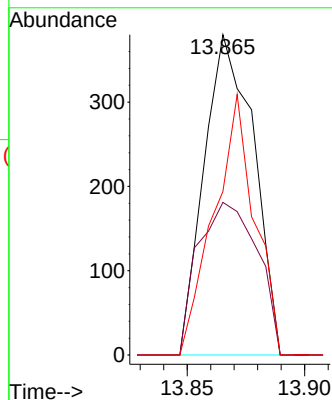
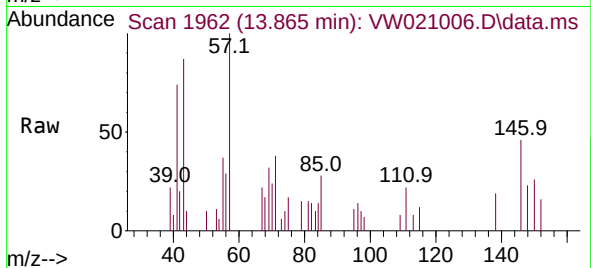
Tgt Ion:146 Resp: 555

Ion Ratio Lower Upper

146 100

111 47.6 33.1 49.7

148 51.1 47.4 71.2



#69

1,3,5-Trichlorobenzene

Concen: 1.784 ug/L

RT: 15.133 min Scan# 2170

Delta R.T. 0.512 min

Lab File: VW021006.D

Acq: 01 Dec 2021 16:58

Tgt Ion:180 Resp: 59

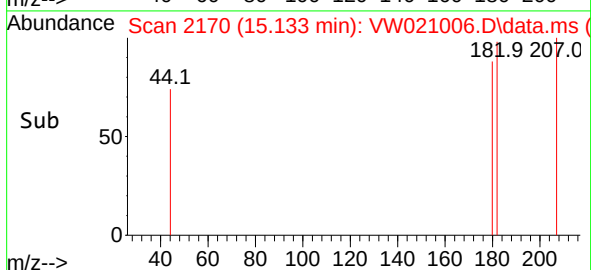
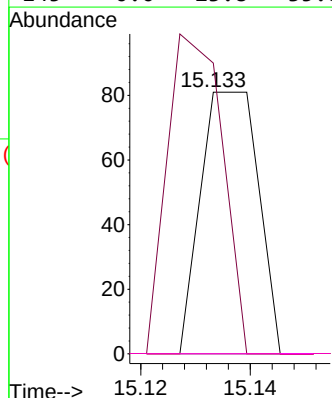
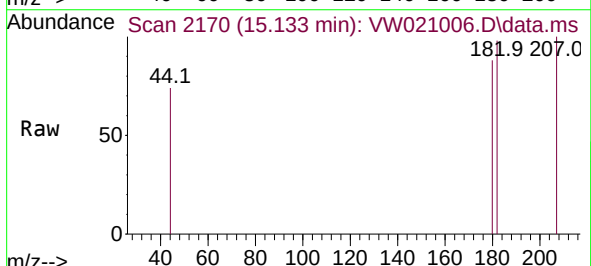
Ion Ratio Lower Upper

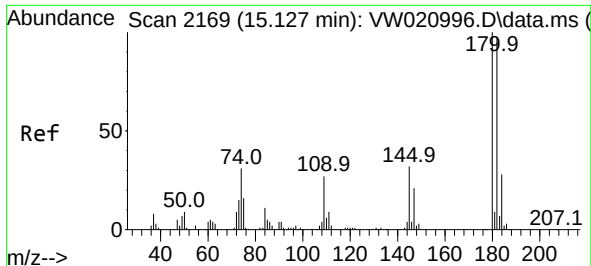
180 100

182 116.9 75.4 113.0#

184 0.0 23.8 35.8#

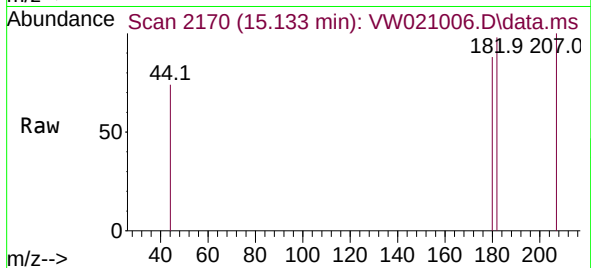
145 0.0 23.8 35.8#



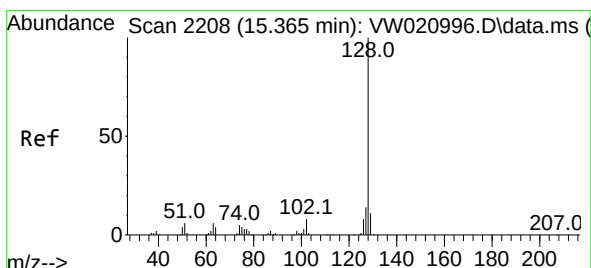
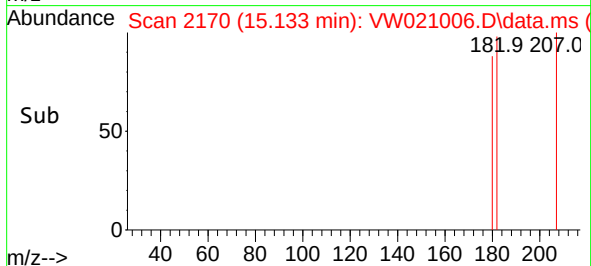
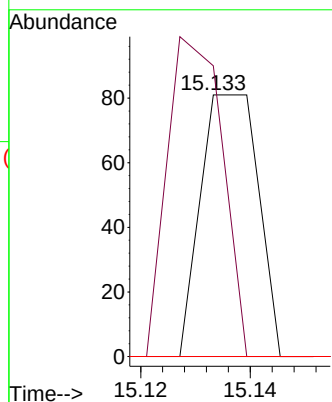


#70
1,2,4-trichlorobenzene
Concen: 2.180 ug/L
RT: 15.133 min Scan# 2169
Delta R.T. 0.006 min
Lab File: VW021006.D
Acq: 01 Dec 2021 16:58

Instrument :
MSVOA_W
ClientSampleId :



Tgt Ion:180 Resp: 59
Ion Ratio Lower Upper
180 100
182 116.9 79.0 118.6
145 0.0 26.0 39.0#



#71
Naphthalene
Concen: 625.623 ug/L
RT: 15.359 min Scan# 2207
Delta R.T. -0.006 min
Lab File: VW021006.D
Acq: 01 Dec 2021 16:58

Tgt Ion:128 Resp: 27586
Ion Ratio Lower Upper
128 100
127 13.7 10.7 16.1
129 11.0 8.6 12.8

