

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW120121\
 Data File : VW021000.D
 Acq On : 01 Dec 2021 12:08
 Operator : SY/VA
 Sample : M4868-02
 Misc : 7.08g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 02 01:57:44 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	163529	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.628	117	148456	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.554	152	75982	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.343	65	26454	13.946	ug/L	-0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	55.800%
7) Chloroethane-d5	2.879	69	18678	15.268	ug/L	-0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	61.080%
11) 1,1-Dichloroethene-d2	3.995	63	48885	13.320	ug/L	-0.03
Spiked Amount	25.000	Range	45 - 110	Recovery	=	53.280%
21) 2-Butanone-d5	7.110	46	10674	22.545	ug/L	0.03
Spiked Amount	50.000	Range	20 - 135	Recovery	=	45.080%
24) Chloroform-d	7.647	84	56111	13.618	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	54.480%
26) 1,2-Dichloroethane-d4	8.305	65	27525	13.161	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	52.640%#
32) Benzene-d6	8.269	84	103918	13.281	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	53.120%
36) 1,2-Dichloropropane-d6	9.274	67	31119	13.967	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	55.880%#
41) Toluene-d8	10.323	98	102818	13.240	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	52.960%
43) trans-1,3-Dichloroprop...	10.579	79	11982	11.378	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	45.520%
47) 2-Hexanone-d5	10.927	63	9126	24.696	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	49.400%
56) 1,1,2,2-Tetrachloroeth...	12.688	84	22906	13.420	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	53.680%
66) 1,2-Dichlorobenzene-d4	13.853	152	39923	14.742	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	58.960%#
Target Compounds						
					Qvalue	
5) Vinyl chloride	2.355	62	7180	2.885	ug/L	# 76
13) Acetone	4.184	43	18592	43.983	ug/L	99
20) cis-1,2-Dichloroethene	7.159	96	142648	59.937	ug/L	76
27) 1,2-Dichloroethane	8.403	62	3307	1.366	ug/L	# 95
29) Cyclohexane	8.025	56	1684	0.509	ug/L	# 23
33) Benzene	8.317	78	80646	9.594	ug/L	100
35) Methylcyclohexane	9.329	83	2291	0.591	ug/L	# 90
37) 1,2-Dichloropropane	9.268	63	3899	1.993	ug/L	# 67
40) 4-Methyl-2-pentanone	10.213	43	6832	5.868	ug/L	# 95
42) Toluene	10.384	91	212845	22.512	ug/L	97
45) 1,1,2-Trichloroethane	10.756	97	1168	0.768	ug/L	# 19
51) Chlorobenzene	11.658	112	7191	1.144	ug/L	91
52) Ethylbenzene	11.731	91	1518039	144.897	ug/L	96
53) m,p-Xylene	11.835	106	2138322	499.921	ug/L	86
54) o-Xylene	12.164	106	527030	128.296	ug/L	96
55) Styrene	12.164	104	27965	4.100	ug/L	# 1
60) Isopropylbenzene	12.463	105	75405	7.286	ug/L	96
62) 1,3,5-Trimethylbenzene	12.938	105	162288	18.589	ug/L	92
63) 1,2,4-Trimethylbenzene	13.249	105	580775	67.426	ug/L	95

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

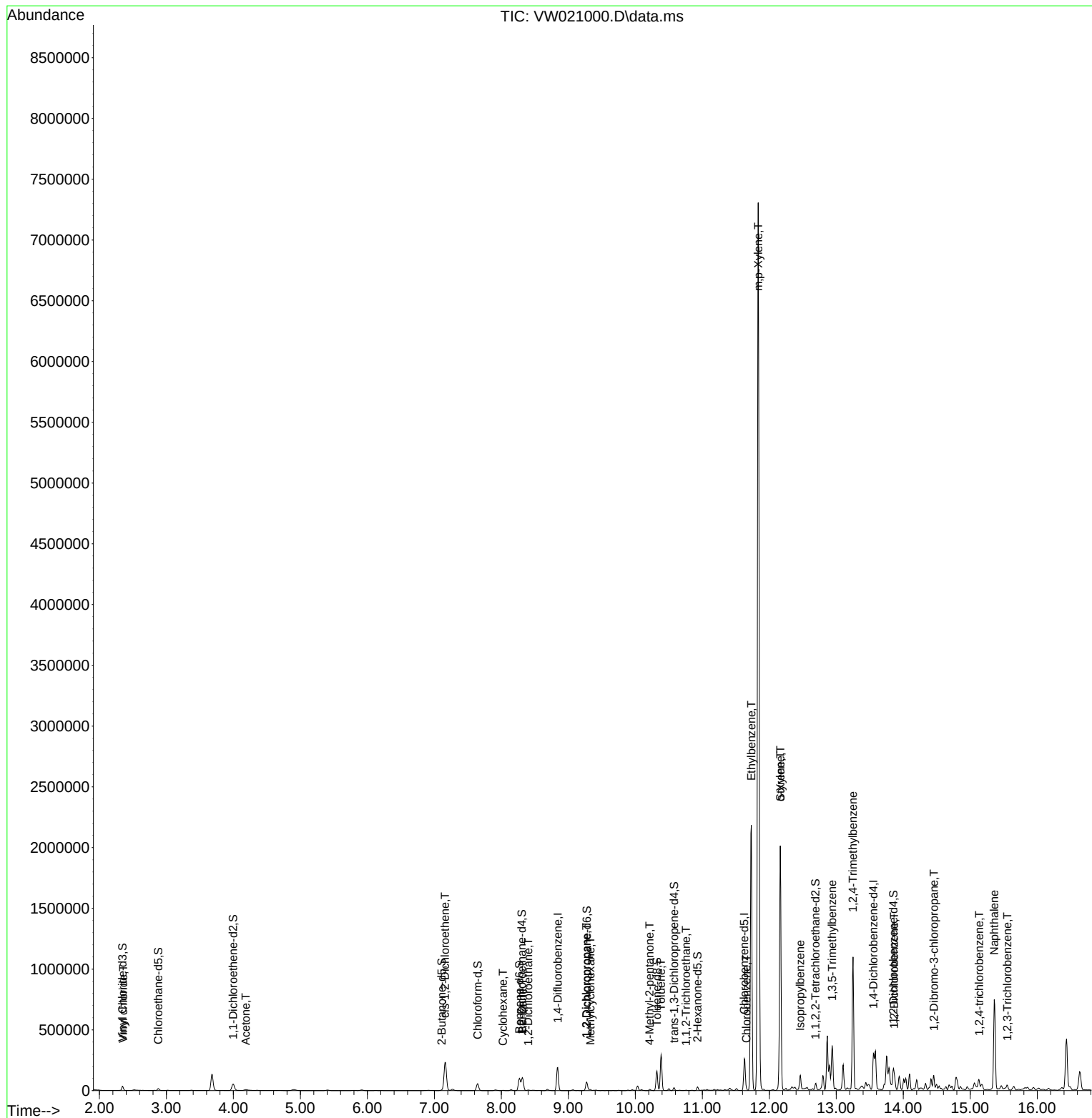
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	13.865	146	13103	3.065	ug/L	94
68) 1,2-Dibromo-3-chloropr...	14.456	75	1149	4.312	ug/L #	10
70) 1,2,4-trichlorobenzene	15.133	180	25663	8.163	ug/L #	90
71) Naphthalene	15.359	128	635725	124.097	ug/L	100
72) 1,2,3-Trichlorobenzene	15.554	180	10321	3.890	ug/L #	80

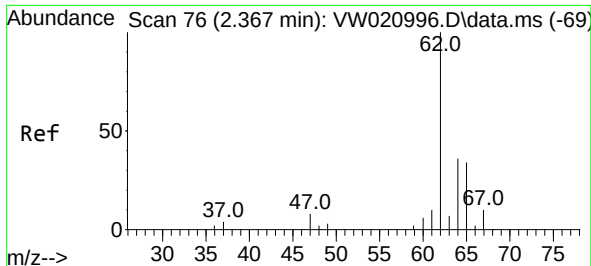
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

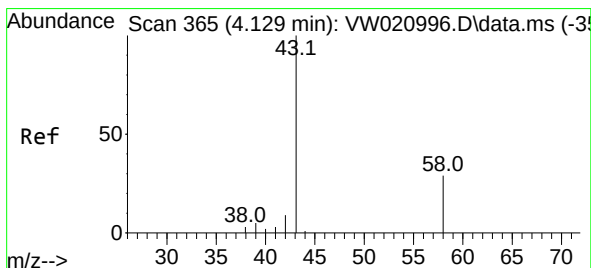
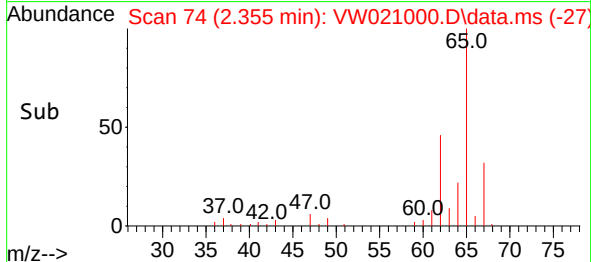
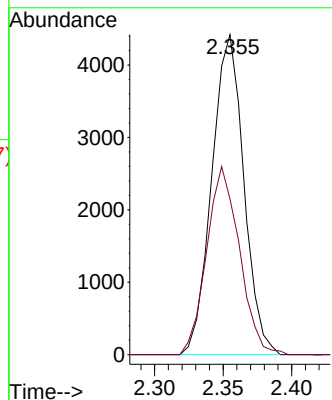
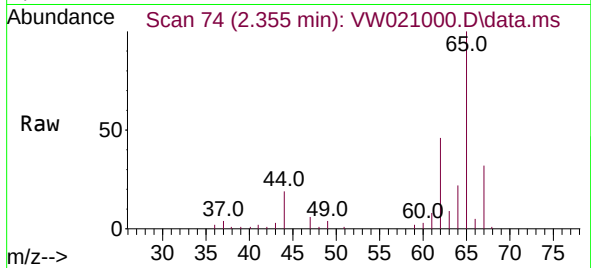




#5
 Vinyl chloride
 Concen: 2.885 ug/L
 RT: 2.355 min Scan# 74
 Delta R.T. -0.012 min
 Lab File: VW021000.D
 Acq: 01 Dec 2021 12:08

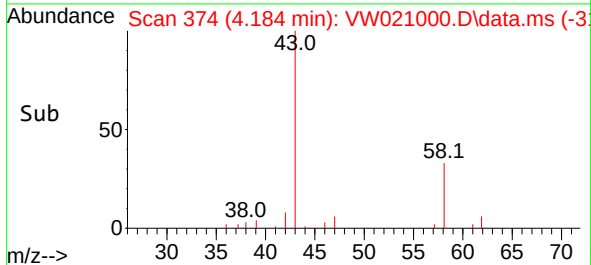
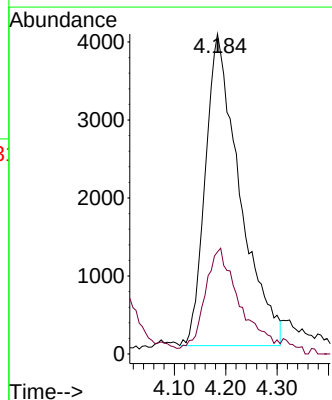
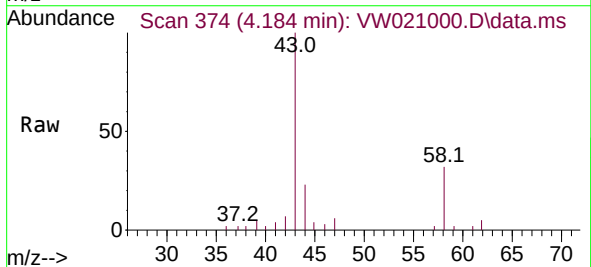
Instrument :
 MSVOA_W
 ClientSampleId :

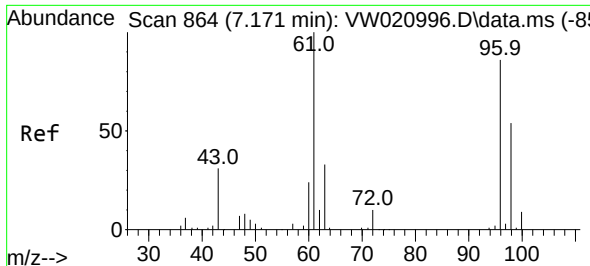
Tgt Ion: 62 Resp: 7180
 Ion Ratio Lower Upper
 62 100
 64 48.7 24.4 45.2#



#13
 Acetone
 Concen: 43.983 ug/L
 RT: 4.184 min Scan# 374
 Delta R.T. 0.055 min
 Lab File: VW021000.D
 Acq: 01 Dec 2021 12:08

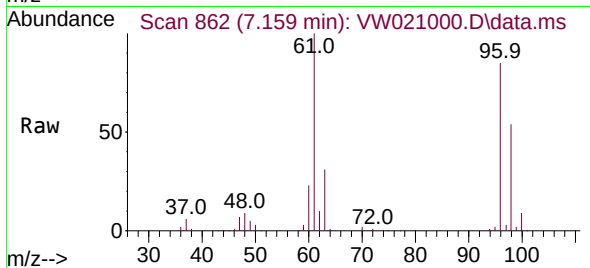
Tgt Ion: 43 Resp: 18592
 Ion Ratio Lower Upper
 43 100
 58 26.8 0.0 52.8



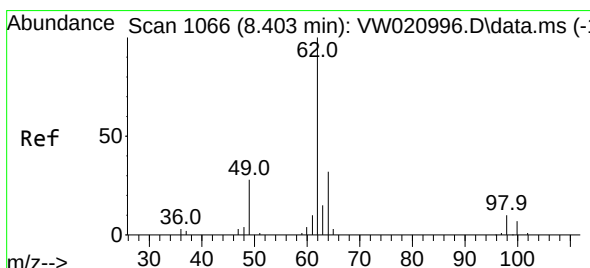
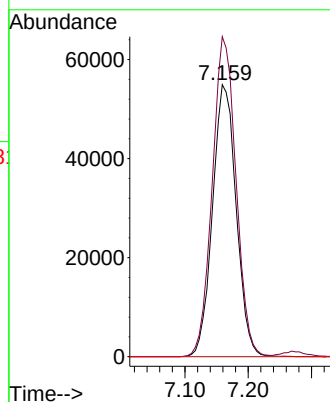
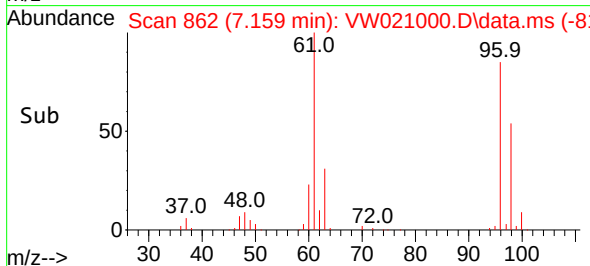


#20
 cis-1,2-Dichloroethene
 Concen: 59.937 ug/L
 RT: 7.159 min Scan# 862
 Delta R.T. -0.012 min
 Lab File: VW021000.D
 Acq: 01 Dec 2021 12:08

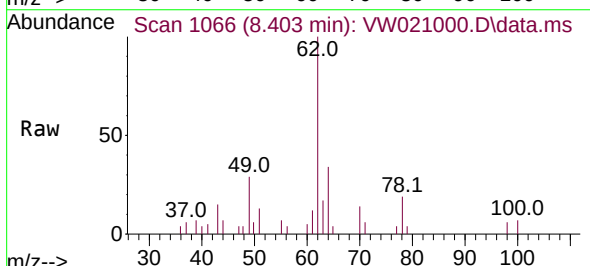
Instrument :
 MSVOA_W
 ClientSampleId :



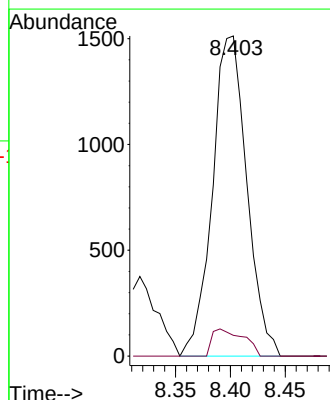
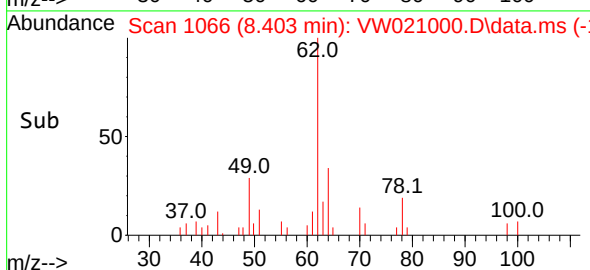
Tgt Ion: 96 Resp: 142648
 Ion Ratio Lower Upper
 96 100
 61 117.6 103.7 192.7
 68 0.0 0.0 0.0

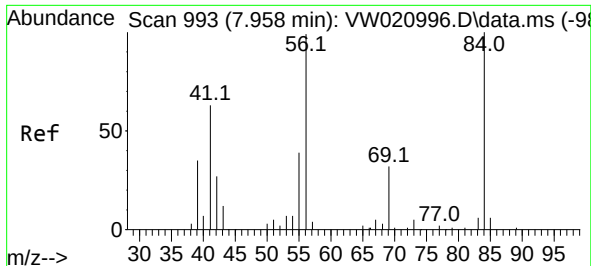


#27
 1,2-Dichloroethane
 Concen: 1.366 ug/L
 RT: 8.403 min Scan# 1066
 Delta R.T. 0.000 min
 Lab File: VW021000.D
 Acq: 01 Dec 2021 12:08



Tgt Ion: 62 Resp: 3307
 Ion Ratio Lower Upper
 62 100
 98 6.5 6.5 9.7#





#29

Cyclohexane

Concen: 0.509 ug/L

RT: 8.025 min Scan# 1004

Delta R.T. 0.067 min

Lab File: VW021000.D

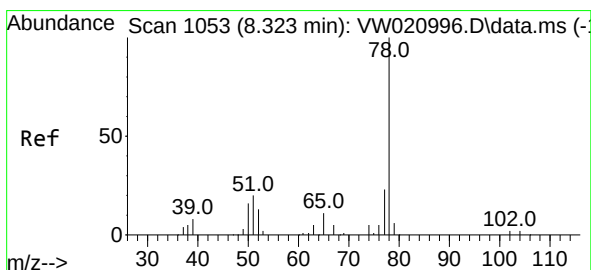
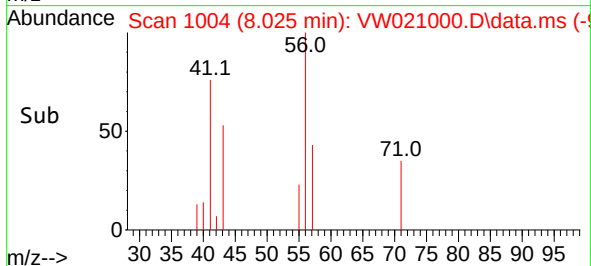
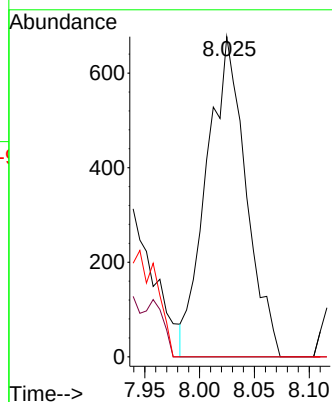
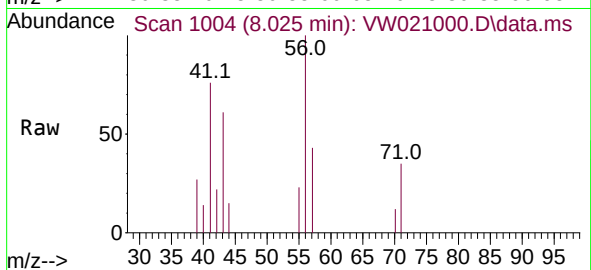
Acq: 01 Dec 2021 12:08

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 56	Resp: 1684
Ion Ratio	Lower Upper
56	100
69	8.1 23.5 35.3#
84	0.0 63.4 95.2#



#33

Benzene

Concen: 9.594 ug/L

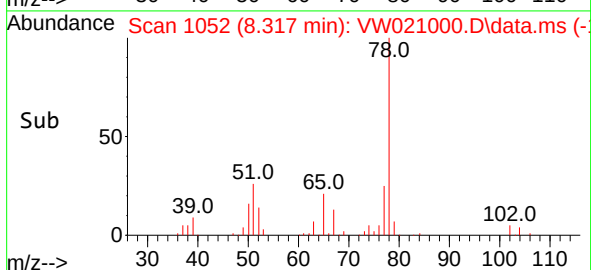
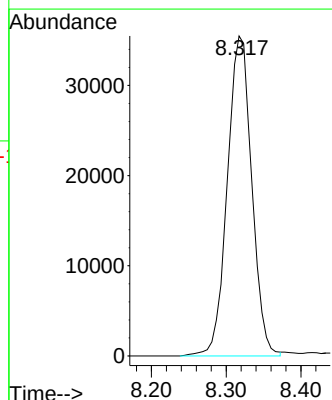
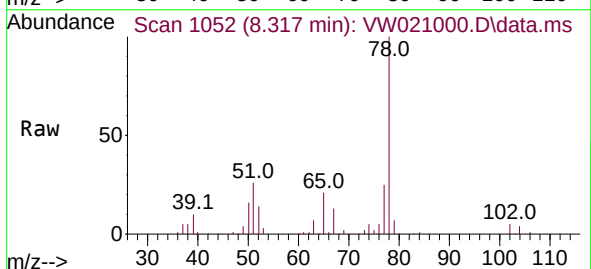
RT: 8.317 min Scan# 1052

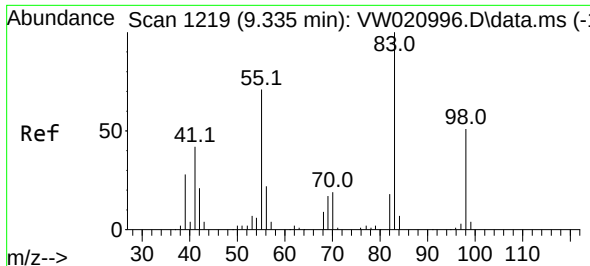
Delta R.T. -0.006 min

Lab File: VW021000.D

Acq: 01 Dec 2021 12:08

Tgt Ion: 78 Resp: 80646





#35

Methylcyclohexane

Concen: 0.591 ug/L

RT: 9.329 min Scan# 11

Delta R.T. -0.006 min

Lab File: VW021000.D

Acq: 01 Dec 2021 12:08

Instrument :

MSVOA_W

ClientSampleId :

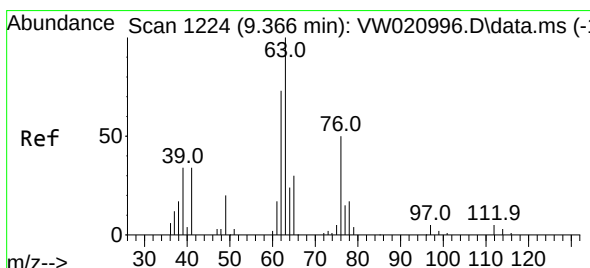
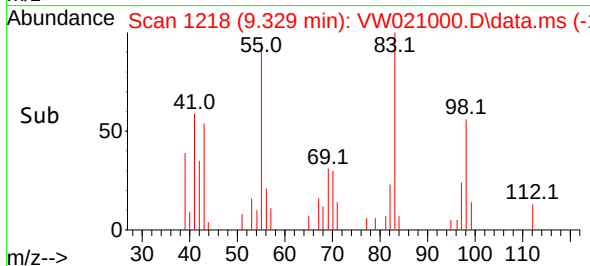
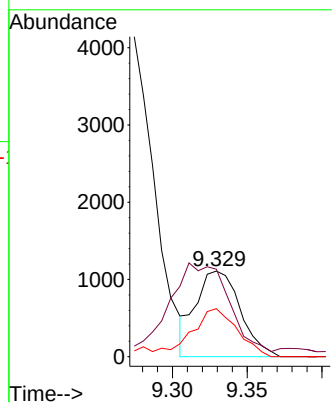
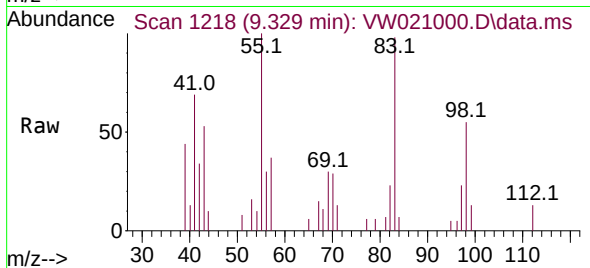
Tgt Ion: 83 Resp: 2291

Ion Ratio Lower Upper

83 100

55 82.6 70.8 106.2

98 57.8 37.7 56.5#



#37

1,2-Dichloropropane

Concen: 1.993 ug/L

RT: 9.268 min Scan# 1208

Delta R.T. -0.097 min

Lab File: VW021000.D

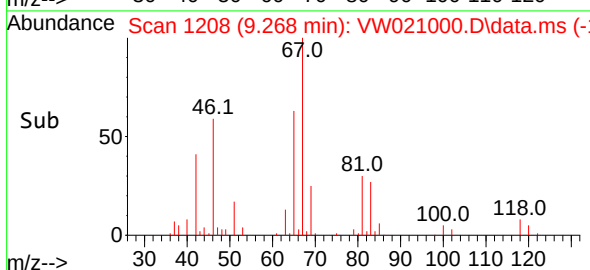
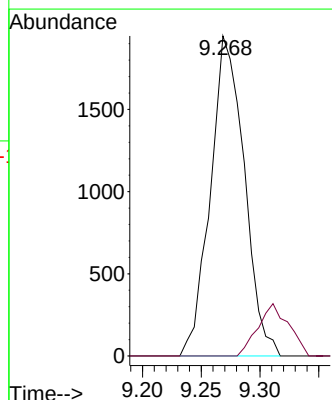
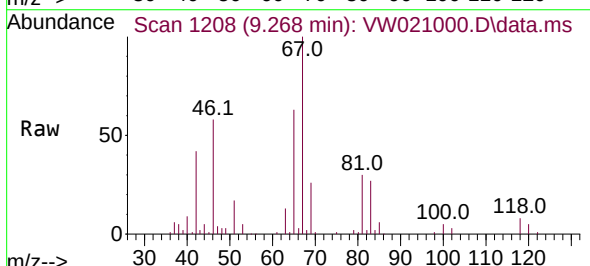
Acq: 01 Dec 2021 12:08

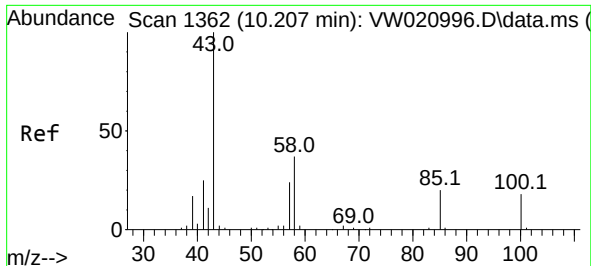
Tgt Ion: 63 Resp: 3899

Ion Ratio Lower Upper

63 100

112 14.9 3.2 4.8#





#40

4-Methyl-2-pentanone

Concen: 5.868 ug/L

RT: 10.213 min Scan# 1363

Delta R.T. 0.006 min

Lab File: VW021000.D

Acq: 01 Dec 2021 12:08

Instrument :

MSVOA_W

ClientSampleId :

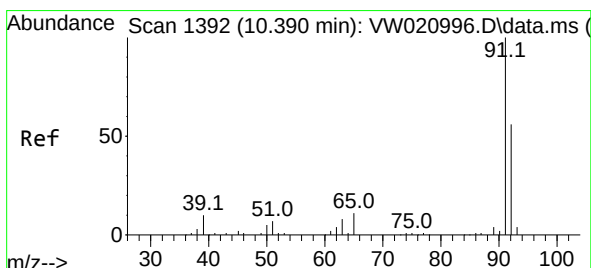
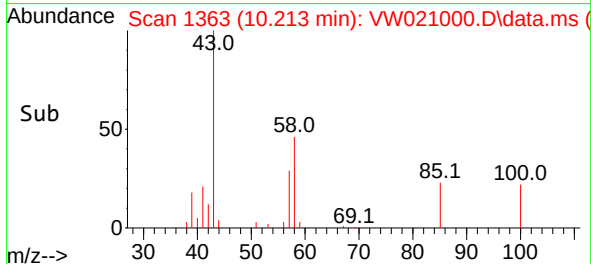
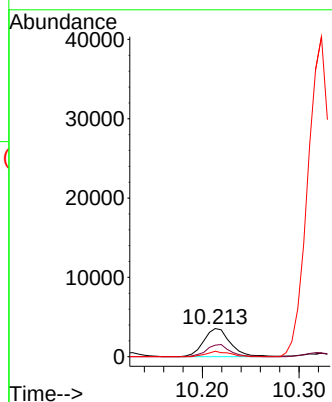
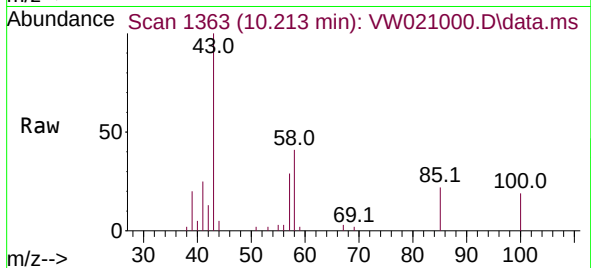
Tgt Ion: 43 Resp: 6832

Ion Ratio Lower Upper

43 100

58 37.7 28.8 43.2

100 16.4 10.0 15.0#



#42

Toluene

Concen: 22.512 ug/L

RT: 10.384 min Scan# 1391

Delta R.T. -0.006 min

Lab File: VW021000.D

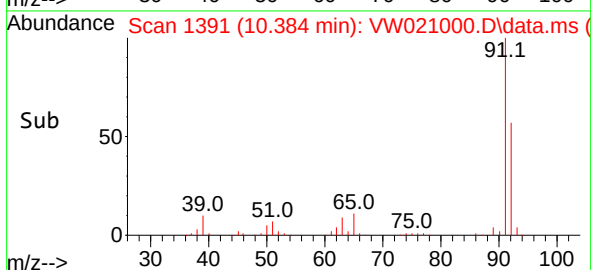
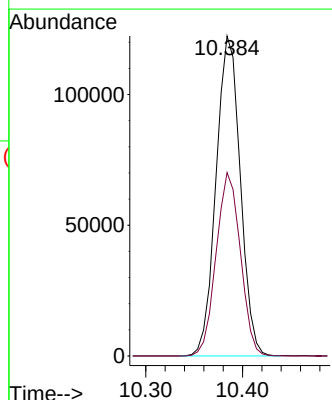
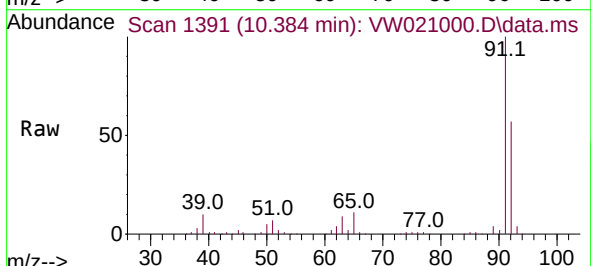
Acq: 01 Dec 2021 12:08

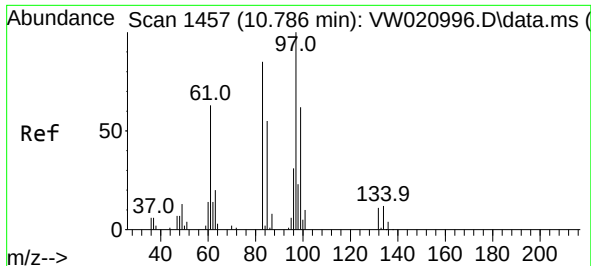
Tgt Ion: 91 Resp: 212845

Ion Ratio Lower Upper

91 100

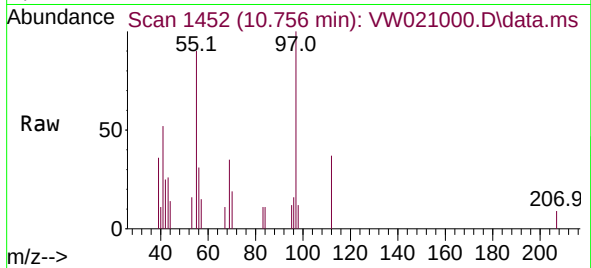
92 57.3 41.7 77.5



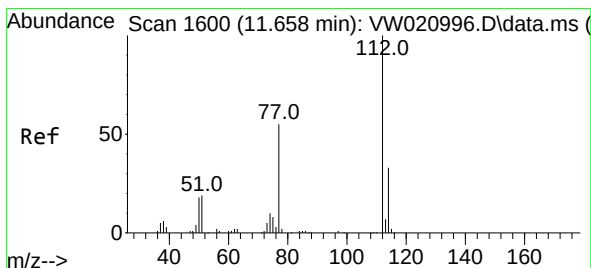
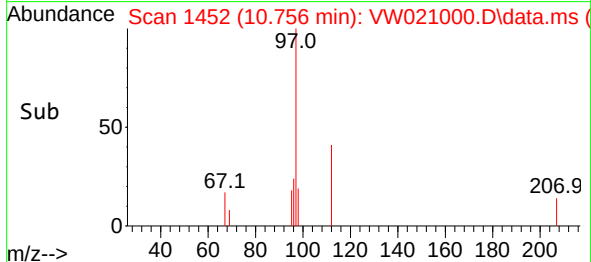
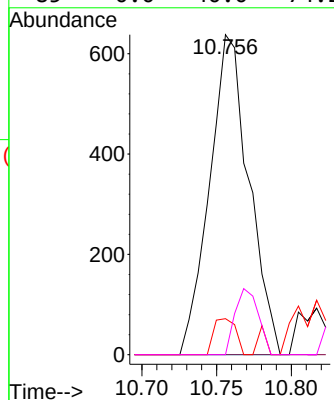


#45
1,1,2-Trichloroethane
Concen: 0.768 ug/L
RT: 10.756 min Scan# 1457
Delta R.T. -0.030 min
Lab File: VW021000.D
Acq: 01 Dec 2021 12:08

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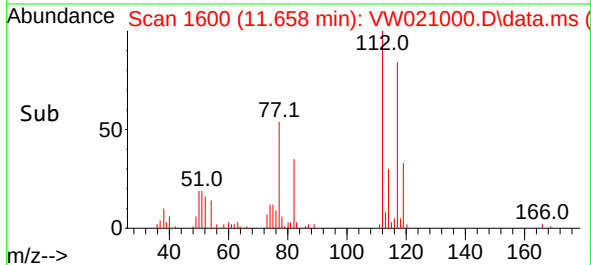
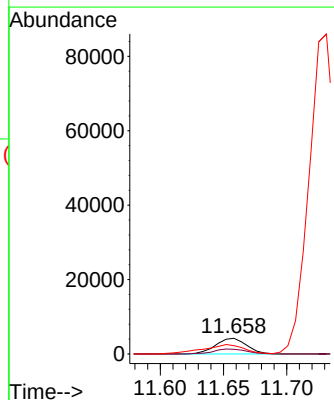
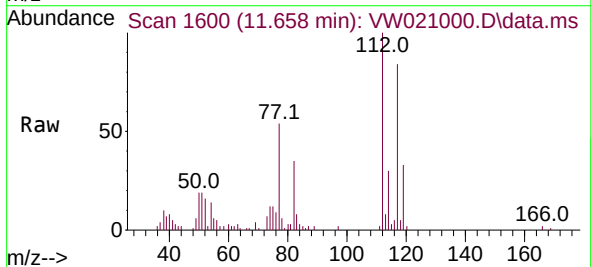


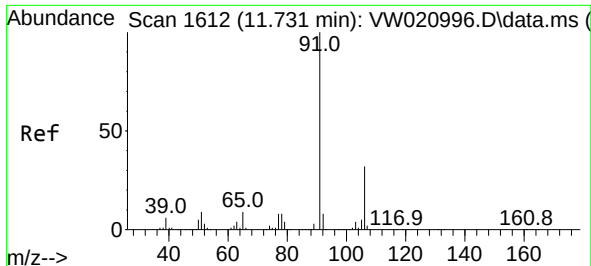
Tgt Ion: 97	Resp: 1168
Ion Ratio	Lower Upper
97	100
99	0.0 43.0 79.8#
83	11.3 62.6 116.3#
85	0.0 40.0 74.2#



#51
Chlorobenzene
Concen: 1.144 ug/L
RT: 11.658 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VW021000.D
Acq: 01 Dec 2021 12:08

Tgt Ion: 112	Resp: 7191
Ion Ratio	Lower Upper
112	100
114	29.5 22.4 41.6
77	53.6 50.2 75.4





#52

Ethylbenzene

Concen: 144.897 ug/L

RT: 11.731 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW021000.D

Acq: 01 Dec 2021 12:08

Instrument :

MSVOA_W

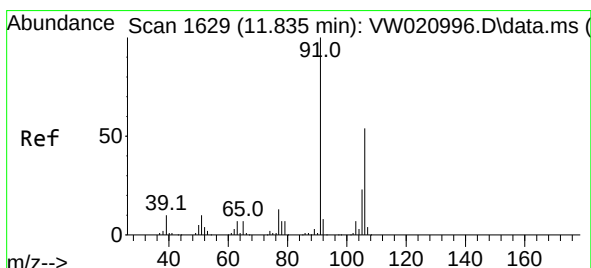
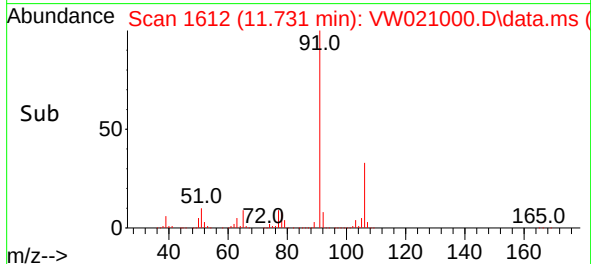
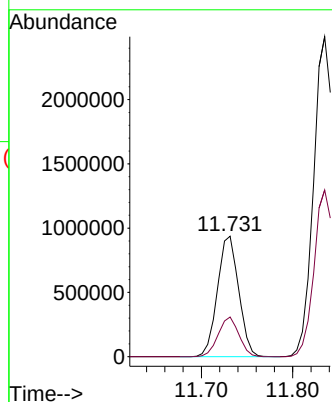
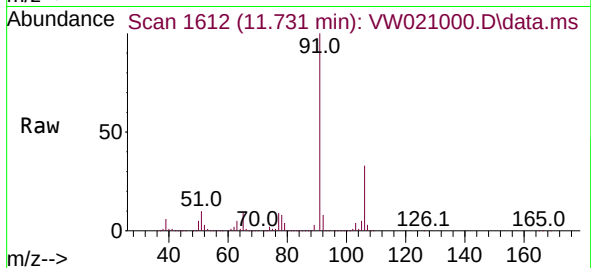
ClientSampleId :

Tgt Ion: 91 Resp: 1518039

Ion Ratio Lower Upper

91 100

106 33.0 21.5 39.9



#53

m,p-Xylene

Concen: 499.921 ug/L

RT: 11.835 min Scan# 1629

Delta R.T. 0.000 min

Lab File: VW021000.D

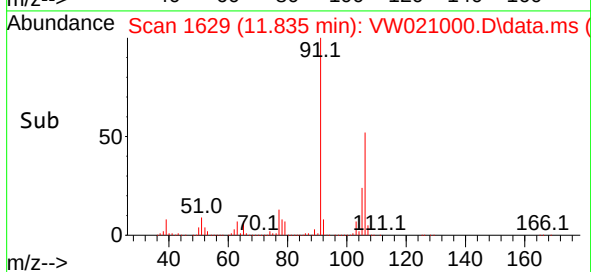
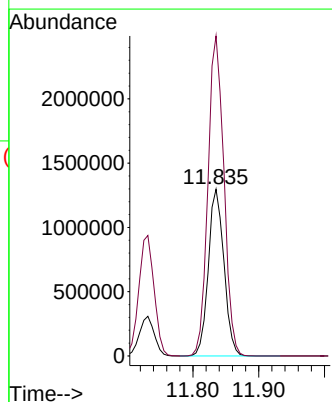
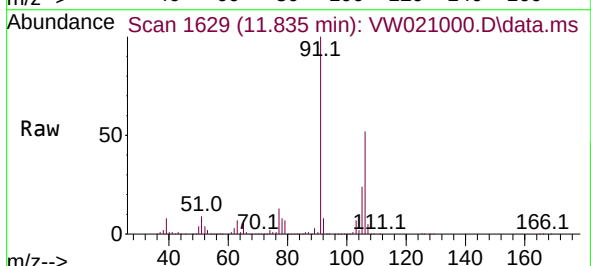
Acq: 01 Dec 2021 12:08

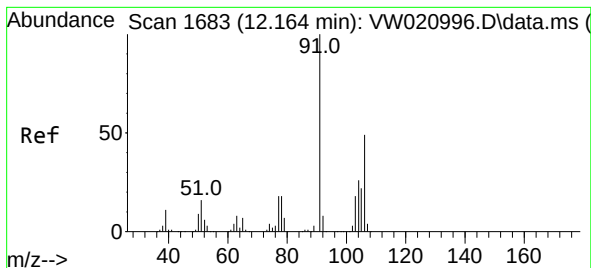
Tgt Ion:106 Resp: 2138322

Ion Ratio Lower Upper

106 100

91 191.9 149.9 278.3





#54

o-Xylene

Concen: 128.296 ug/L

RT: 12.164 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW021000.D

Acq: 01 Dec 2021 12:08

Instrument :

MSVOA_W

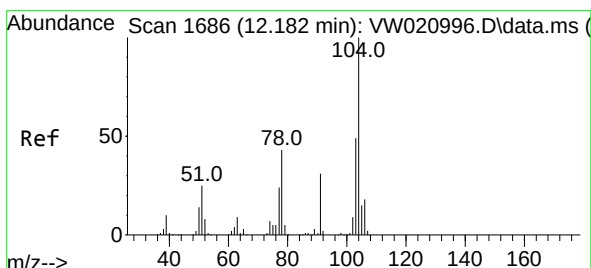
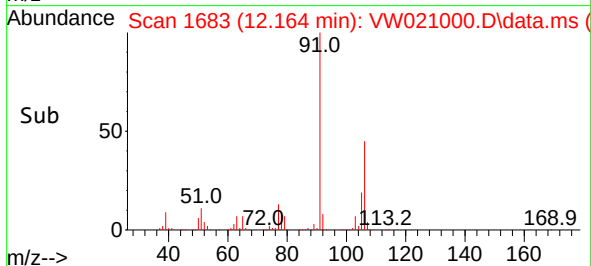
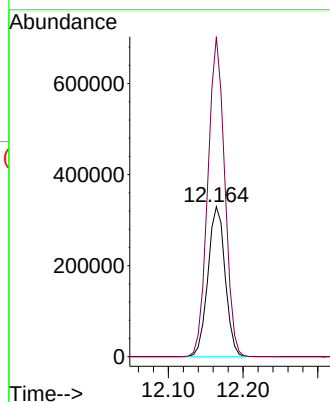
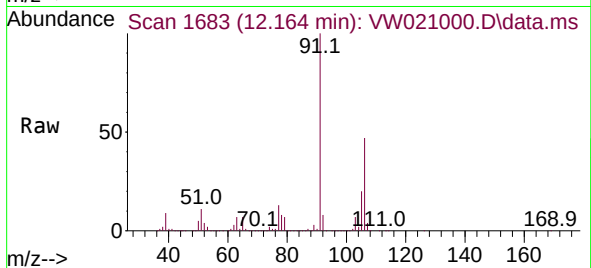
ClientSampleId :

Tgt Ion:106 Resp: 527030

Ion Ratio Lower Upper

106 100

91 213.5 153.6 285.3



#55

Styrene

Concen: 4.100 ug/L

RT: 12.164 min Scan# 1683

Delta R.T. -0.018 min

Lab File: VW021000.D

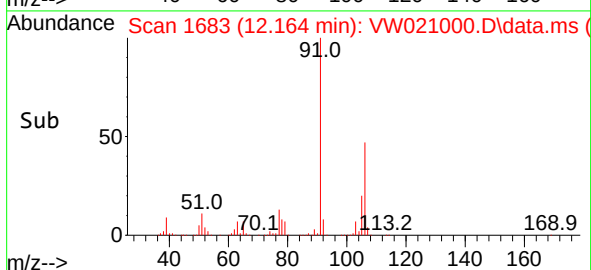
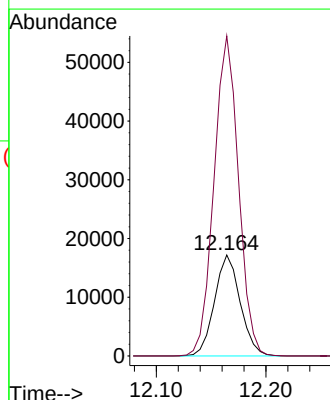
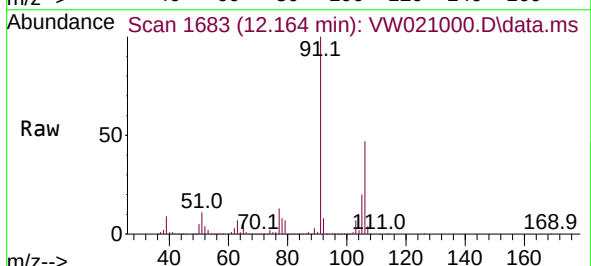
Acq: 01 Dec 2021 12:08

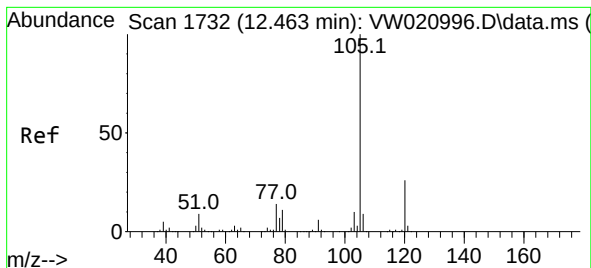
Tgt Ion:104 Resp: 27965

Ion Ratio Lower Upper

104 100

78 317.1 34.4 64.0#





#60

Isopropylbenzene

Concen: 7.286 ug/L

RT: 12.463 min Scan# 11

Delta R.T. 0.000 min

Lab File: VW021000.D

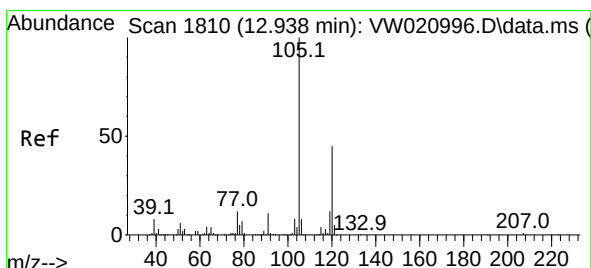
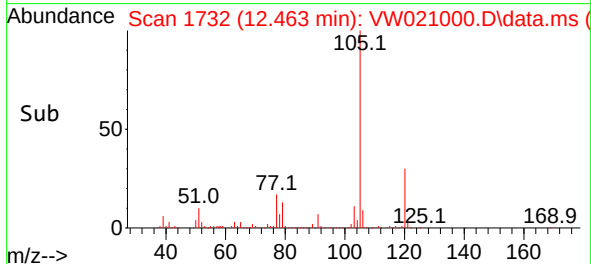
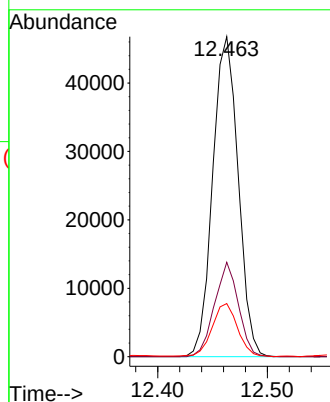
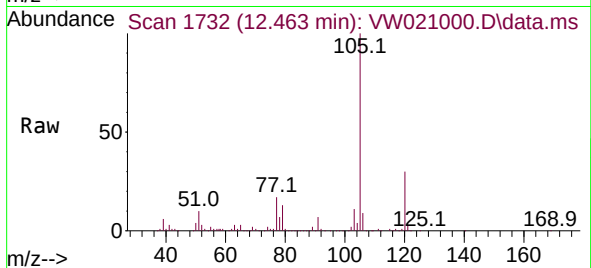
Acq: 01 Dec 2021 12:08

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:105	Resp:	75405
Ion Ratio	Lower	Upper
105	100	
120	27.7	20.1 30.1
77	16.8	13.8 20.8



#62

1,3,5-Trimethylbenzene

Concen: 18.589 ug/L

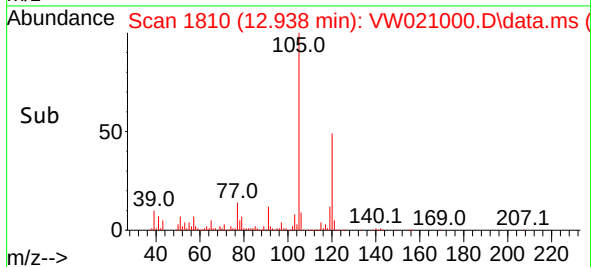
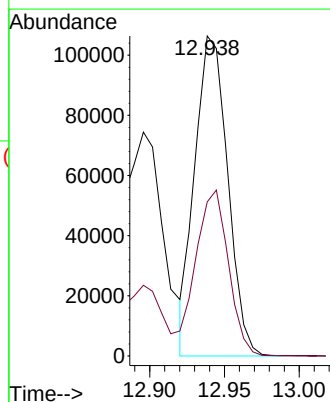
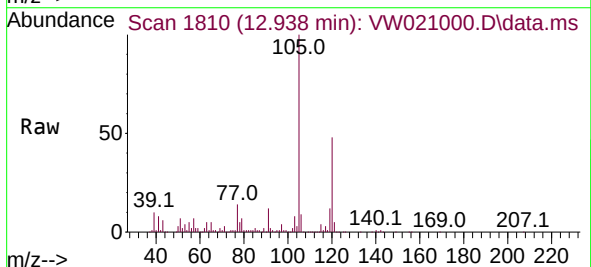
RT: 12.938 min Scan# 1810

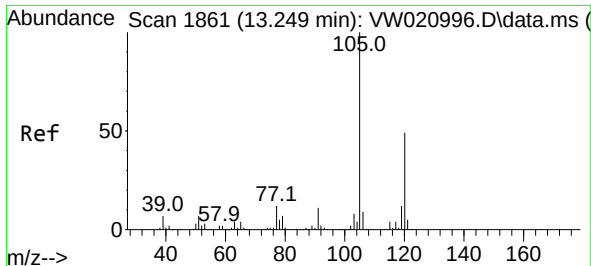
Delta R.T. 0.000 min

Lab File: VW021000.D

Acq: 01 Dec 2021 12:08

Tgt Ion:105	Resp:	162288
Ion Ratio	Lower	Upper
105	100	
120	52.4	37.4 56.2

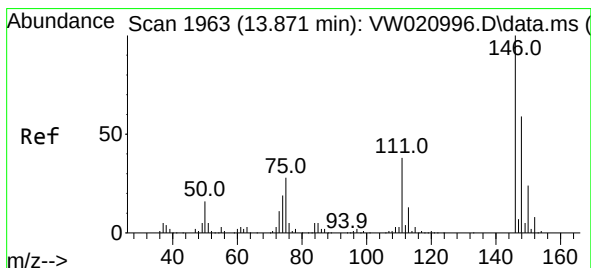
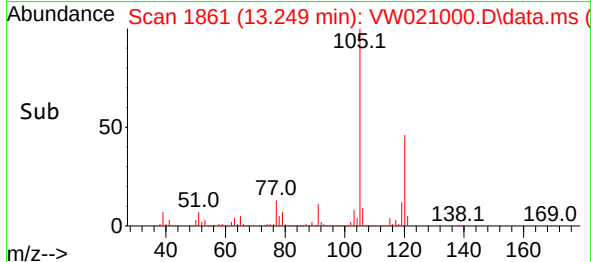
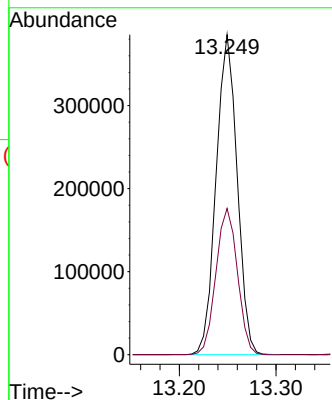
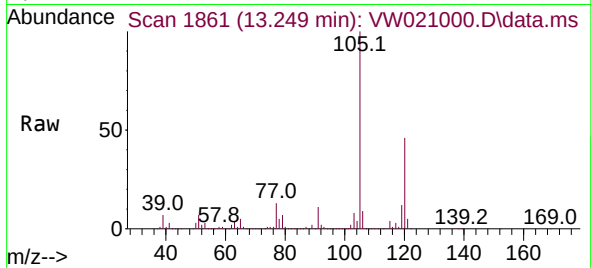




#63
 1,2,4-Trimethylbenzene
 Concen: 67.426 ug/L
 RT: 13.249 min Scan# 1861
 Delta R.T. 0.000 min
 Lab File: VW021000.D
 Acq: 01 Dec 2021 12:08

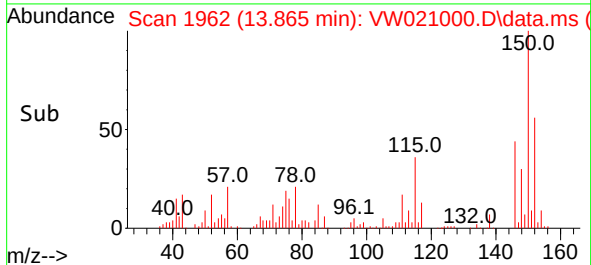
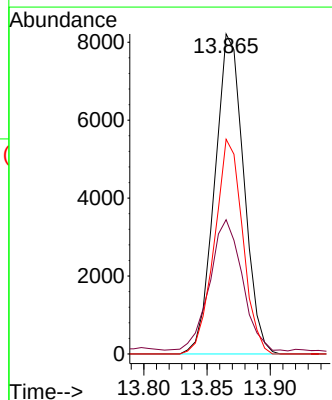
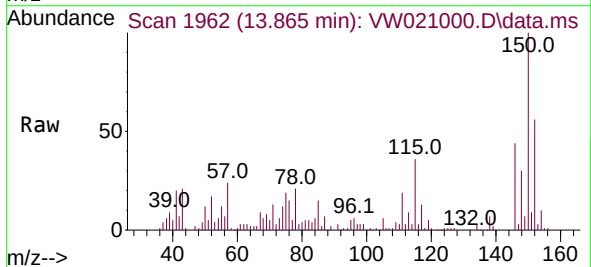
Instrument :
 MSVOA_W
 ClientSampleId :

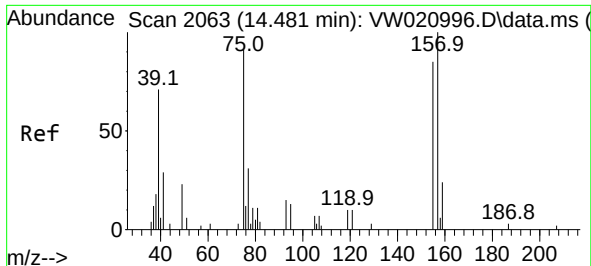
Tgt Ion:105 Resp: 580775
 Ion Ratio Lower Upper
 105 100
 120 46.9 35.0 52.6



#67
 1,2-Dichlorobenzene
 Concen: 3.065 ug/L
 RT: 13.865 min Scan# 1962
 Delta R.T. -0.006 min
 Lab File: VW021000.D
 Acq: 01 Dec 2021 12:08

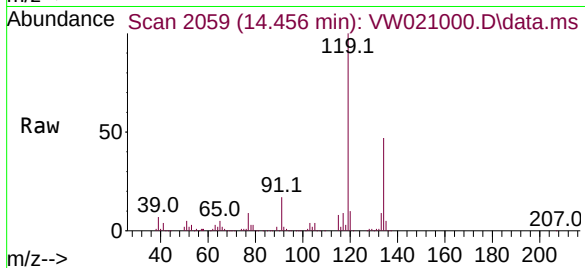
Tgt Ion:146 Resp: 13103
 Ion Ratio Lower Upper
 146 100
 111 41.9 33.1 49.7
 148 67.1 47.4 71.2



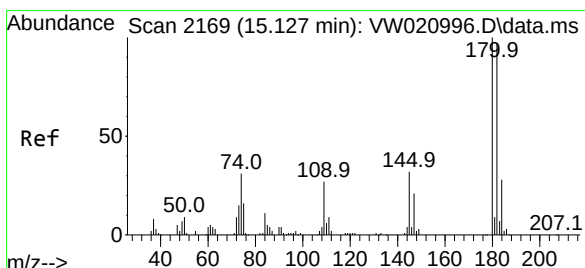
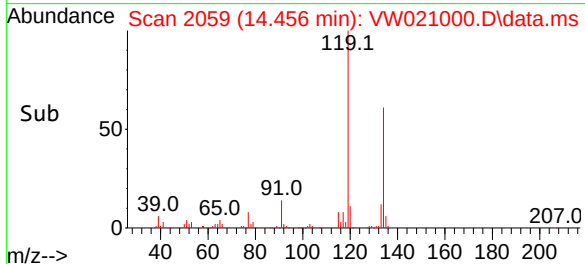
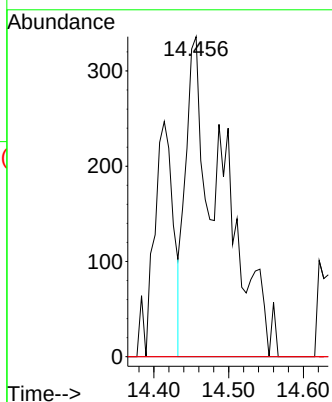


#68
1,2-Dibromo-3-chloropropane
Concen: 4.312 ug/L
RT: 14.456 min Scan# 2063
Delta R.T. -0.024 min
Lab File: VW021000.D
Acq: 01 Dec 2021 12:08

Instrument :
MSVOA_W
ClientSampleId :

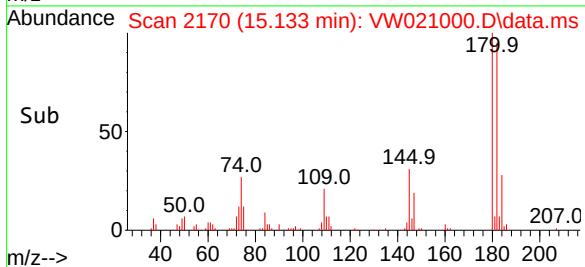
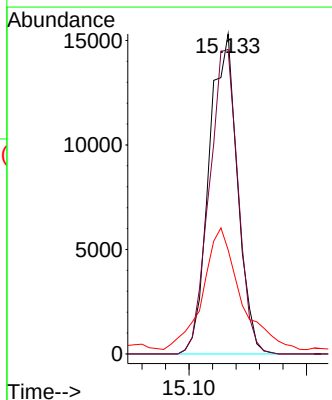
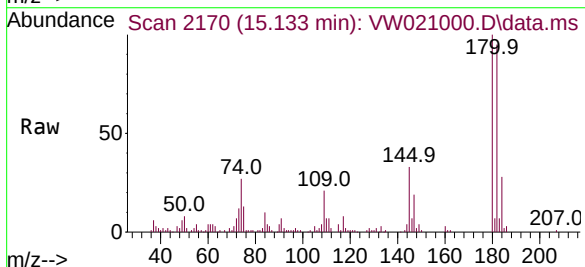


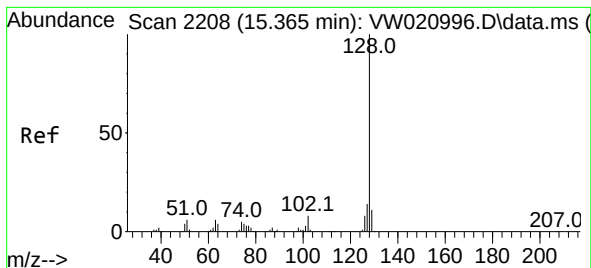
Tgt Ion: 75 Resp: 1149
Ion Ratio Lower Upper
75 100
155 0.0 54.2 81.2#
157 0.0 69.4 104.2#



#70
1,2,4-trichlorobenzene
Concen: 8.163 ug/L
RT: 15.133 min Scan# 2170
Delta R.T. 0.006 min
Lab File: VW021000.D
Acq: 01 Dec 2021 12:08

Tgt Ion: 180 Resp: 25663
Ion Ratio Lower Upper
180 100
182 96.5 79.0 118.6
145 52.3 26.0 39.0#





#71

Naphthalene

Concen: 124.097 ug/L

RT: 15.359 min Scan# 2207

Delta R.T. -0.006 min

Lab File: VW021000.D

Acq: 01 Dec 2021 12:08

Instrument :

MSVOA_W

ClientSampleId :

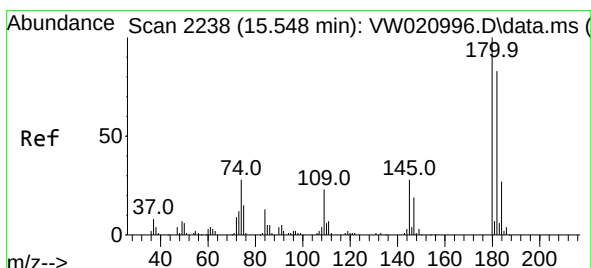
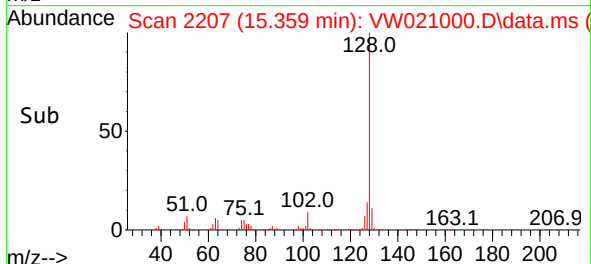
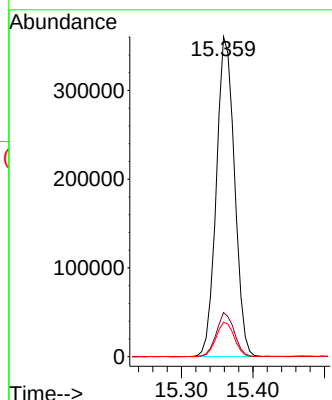
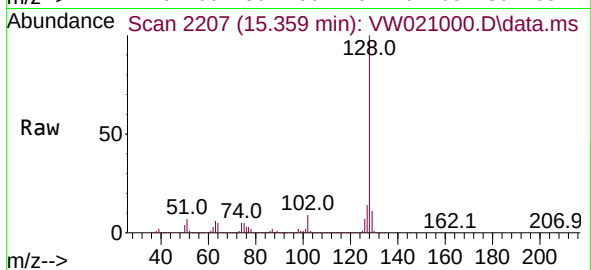
Tgt Ion:128 Resp: 635725

Ion Ratio Lower Upper

128 100

127 13.5 10.7 16.1

129 10.8 8.6 12.8



#72

1,2,3-Trichlorobenzene

Concen: 3.890 ug/L

RT: 15.554 min Scan# 2239

Delta R.T. 0.006 min

Lab File: VW021000.D

Acq: 01 Dec 2021 12:08

Tgt Ion:180 Resp: 10321

Ion Ratio Lower Upper

180 100

182 96.6 76.6 114.8

145 76.5 27.4 41.0#

