

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122121\
 Data File : VW021536.D
 Acq On : 21 Dec 2021 20:41
 Operator : SY/VA
 Sample : M5194-02
 Misc : 6.57g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 22 03:51:02 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Dec 22 02:57:00 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	133468	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.628	117	117131	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.554	152	53933	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.349	65	42518	17.491	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	69.960%
7) Chloroethane-d5	2.885	69	28899	17.984	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	71.920%
11) 1,1-Dichloroethene-d2	4.013	63	53123	16.392	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	65.560%
21) 2-Butanone-d5	7.086	46	18397	53.691	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	107.380%
24) Chloroform-d	7.653	84	82339	22.137	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	88.560%
26) 1,2-Dichloroethane-d4	8.305	65	46803	23.656	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	94.640%
32) Benzene-d6	8.275	84	156095	24.312	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	97.240%
36) 1,2-Dichloropropane-d6	9.274	67	43576	25.307	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	101.240%
41) Toluene-d8	10.323	98	145927	22.245	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	89.000%
43) trans-1,3-Dichloroprop...	10.579	79	18606	23.468	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	93.880%
47) 2-Hexanone-d5	10.927	63	15227	59.804	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	119.600%
56) 1,1,2,2-Tetrachloroeth...	12.688	84	33699	22.767	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	91.080%
66) 1,2-Dichlorobenzene-d4	13.853	152	40646	19.446	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	77.800%
Target Compounds						
					Qvalue	
13) Acetone	4.135	43	6910	22.495	ug/L	96
16) Methylene chloride	4.915	84	13075	5.929	ug/L	81
22) 2-Butanone	7.189	43	1873	4.669	ug/L	94
34) Trichloroethene	8.842	95	4243	2.369	ug/L #	5
35) Methylcyclohexane	9.274	83	11939	4.041	ug/L #	15
37) 1,2-Dichloropropane	9.274	63	5650	3.970	ug/L #	88
39) cis-1,3-Dichloropropene	10.036	75	1645	0.733	ug/L #	67
46) Tetrachloroethene	10.859	164	1136	0.668	ug/L	94
49) Dibromochloromethane	10.859	129	988	0.688	ug/L #	10
52) Ethylbenzene	11.731	91	9996	1.172	ug/L	99
57) 1,1,2,2-Tetrachloroethane	12.688	83	3656	2.738	ug/L #	54
60) Isopropylbenzene	12.463	105	97253	13.271	ug/L	98
62) 1,3,5-Trimethylbenzene	13.249	105	39534	6.340	ug/L	99
63) 1,2,4-Trimethylbenzene	13.249	105	39534	6.426	ug/L	96
64) 1,3-Dichlorobenzene	13.493	146	4315	1.248	ug/L #	1
65) 1,4-Dichlorobenzene	13.579	146	7365	2.145	ug/L #	1
67) 1,2-Dichlorobenzene	13.865	146	21565	7.086	ug/L #	62
68) 1,2-Dibromo-3-chloropr...	14.414	75	2003	12.372	ug/L #	29
70) 1,2,4-trichlorobenzene	15.127	180	8422	4.053	ug/L #	1

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Quant Title : SFAM01.0
QLast Update : Wed Dec 22 02:57:00 2021
Response via : Initial Calibration

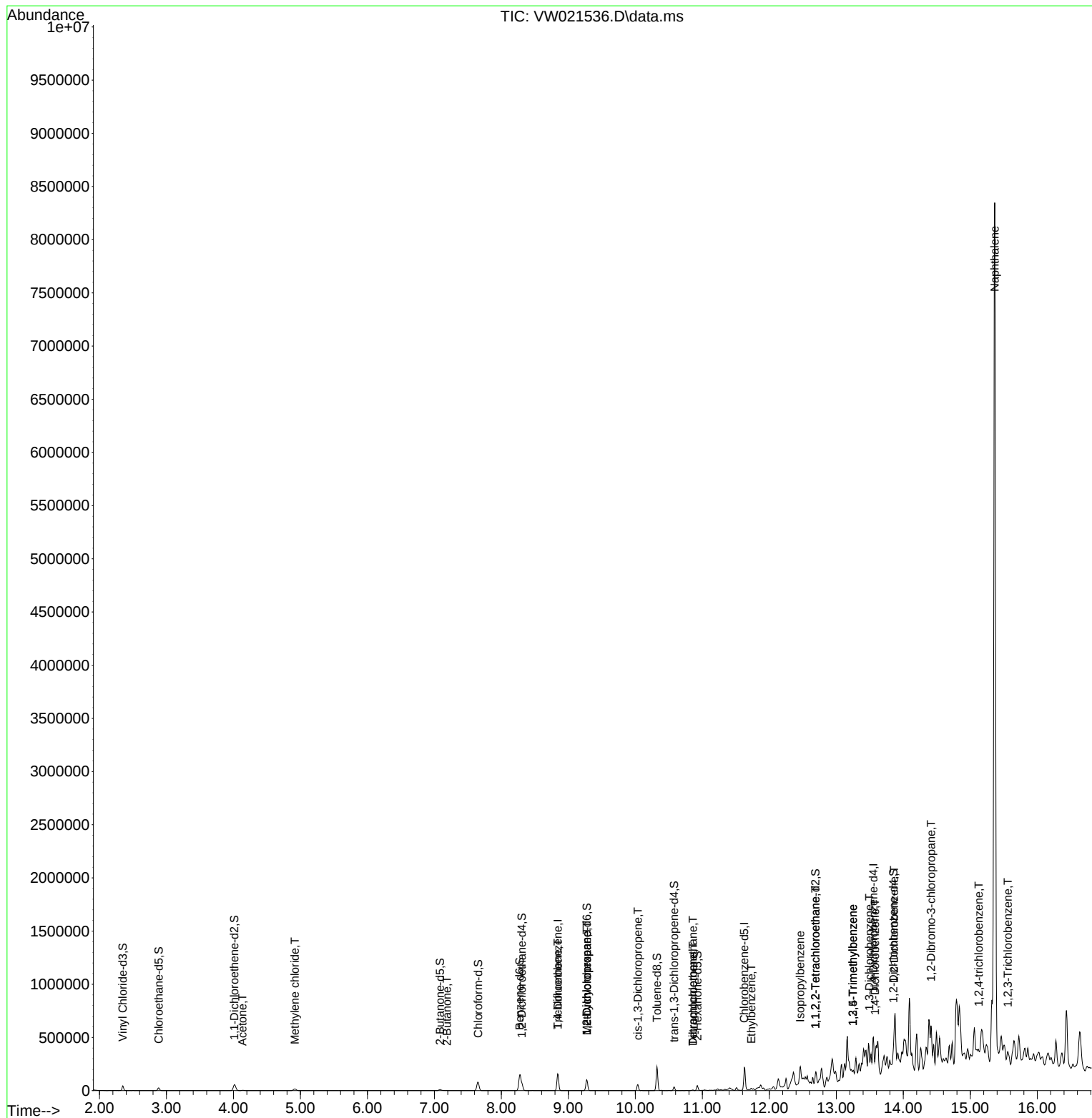
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) Naphthalene	15.365	128	7436890	2202.812	ug/L	99
72) 1,2,3-Trichlorobenzene	15.560	180	2250	1.310	ug/L #	1

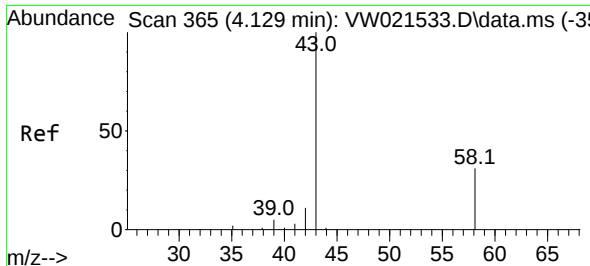
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SFAM01.0
QLast Update : Wed Dec 22 02:57:00 2021
Response via : Initial Calibration





#13

Acetone

Concen: 22.495 ug/L

RT: 4.135 min Scan# 366

Delta R.T. 0.006 min

Lab File: VW021536.D

Acq: 21 Dec 2021 20:41

Instrument :

MSVOA_W

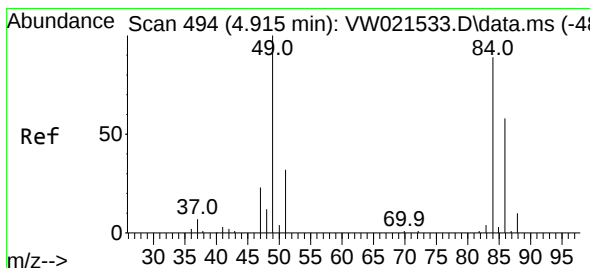
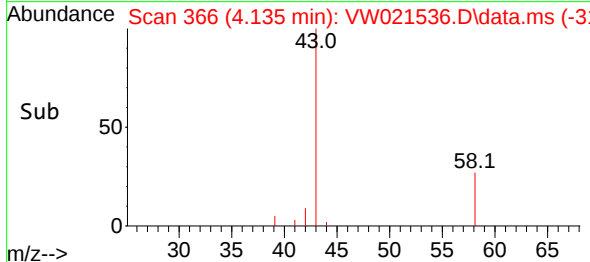
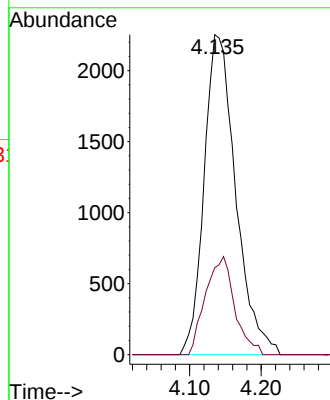
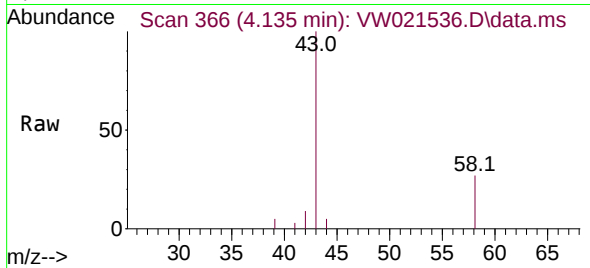
ClientSampleId :

Tgt Ion: 43 Resp: 6910

Ion Ratio Lower Upper

43 100

58 28.2 0.0 52.8



#16

Methylene chloride

Concen: 5.929 ug/L

RT: 4.915 min Scan# 494

Delta R.T. 0.000 min

Lab File: VW021536.D

Acq: 21 Dec 2021 20:41

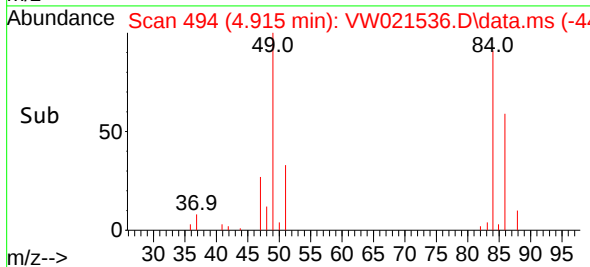
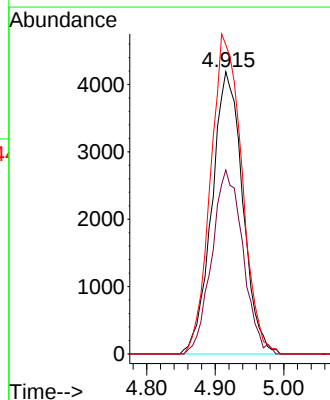
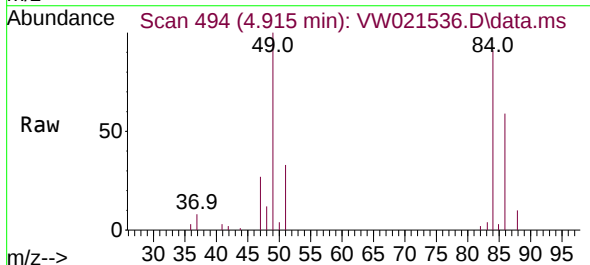
Tgt Ion: 84 Resp: 13075

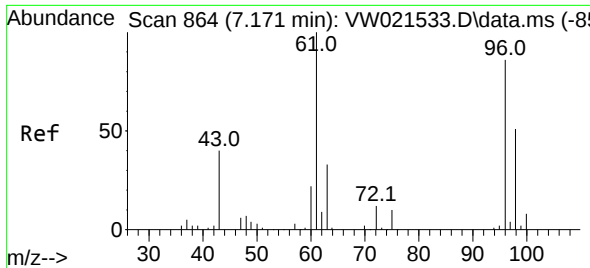
Ion Ratio Lower Upper

84 100

86 65.2 45.5 84.5

49 109.6 100.5 186.7

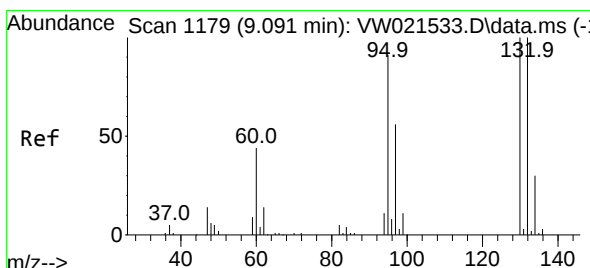
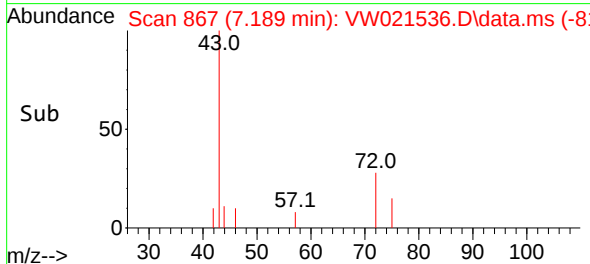
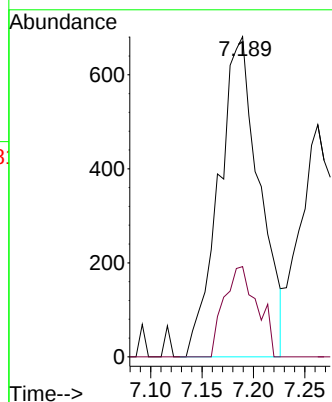
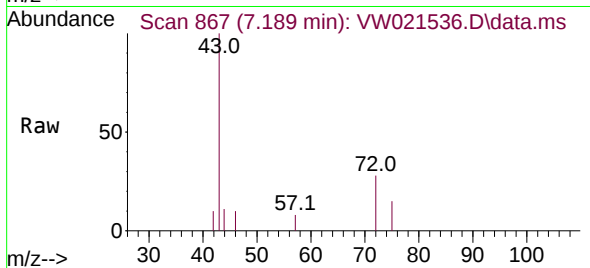




#22
2-Butanone
Concen: 4.669 ug/L
RT: 7.189 min Scan# 867
Delta R.T. 0.018 min
Lab File: VW021536.D
Acq: 21 Dec 2021 20:41

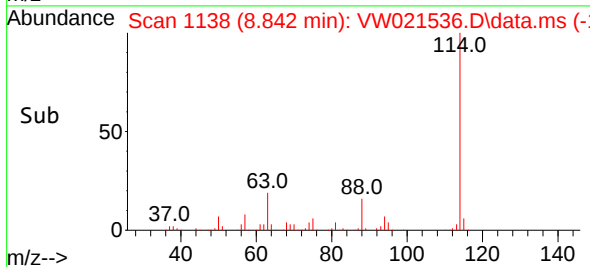
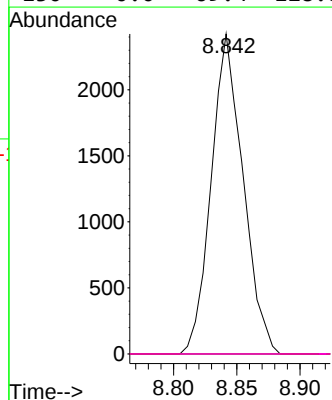
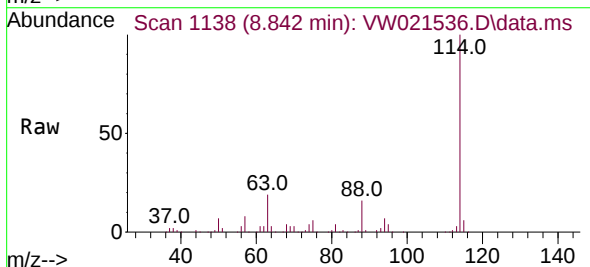
Instrument :
MSVOA_W
ClientSampleId :

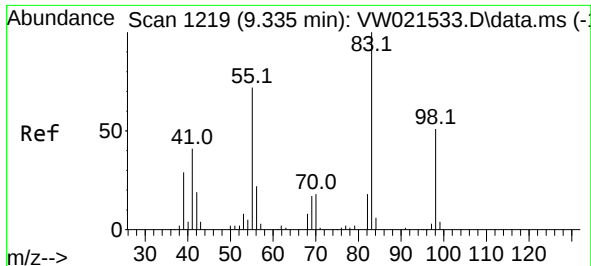
Tgt Ion: 43 Resp: 1873
Ion Ratio Lower Upper
43 100
72 20.8 11.8 35.4



#34
Trichloroethene
Concen: 2.369 ug/L
RT: 8.842 min Scan# 1138
Delta R.T. -0.250 min
Lab File: VW021536.D
Acq: 21 Dec 2021 20:41

Tgt Ion: 95 Resp: 4243
Ion Ratio Lower Upper
95 100
97 0.0 47.0 87.2#
132 0.0 65.5 121.6#
130 0.0 69.4 128.8#

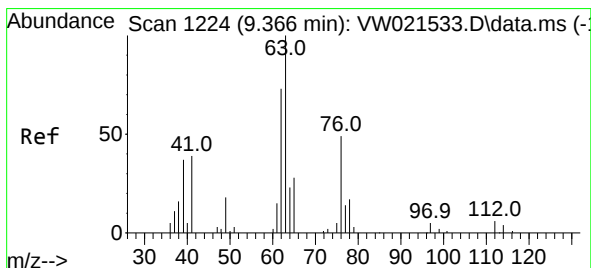
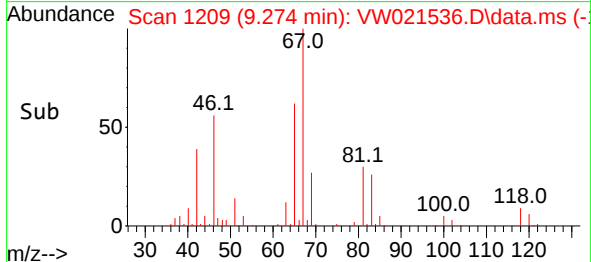
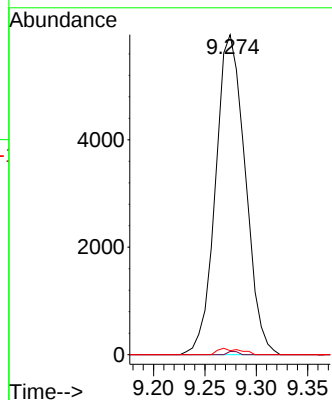
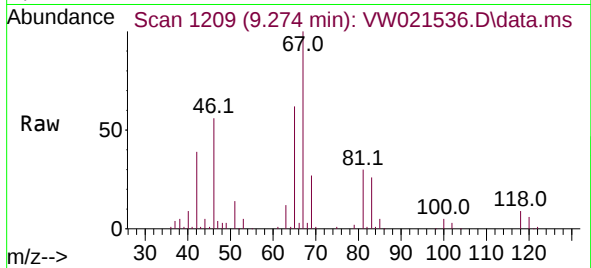




#35
Methylcyclohexane
Concen: 4.041 ug/L
RT: 9.274 min Scan# 11
Delta R.T. -0.061 min
Lab File: VW021536.D
Acq: 21 Dec 2021 20:41

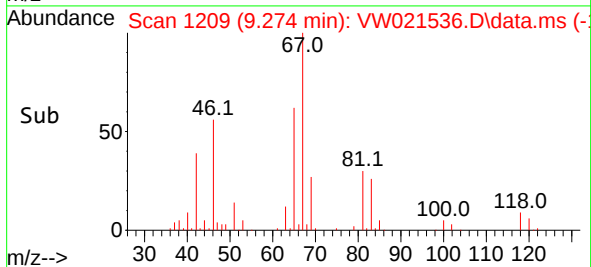
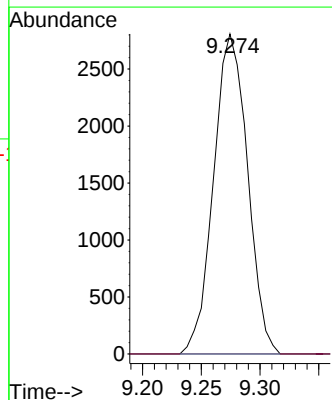
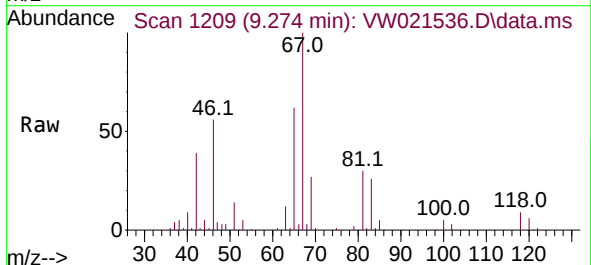
Instrument :
MSVOA_W
ClientSampleId :

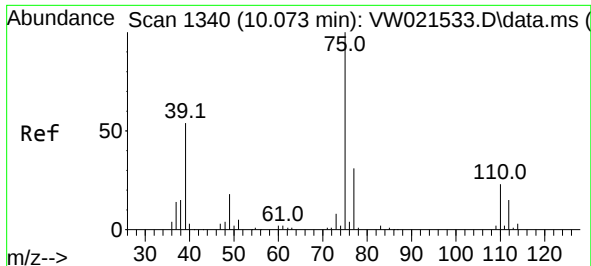
Tgt Ion: 83 Resp: 11939
Ion Ratio Lower Upper
83 100
55 0.4 70.8 106.2#
98 1.5 37.7 56.5#



#37
1,2-Dichloropropane
Concen: 3.970 ug/L
RT: 9.274 min Scan# 1209
Delta R.T. -0.091 min
Lab File: VW021536.D
Acq: 21 Dec 2021 20:41

Tgt Ion: 63 Resp: 5650
Ion Ratio Lower Upper
63 100
112 0.0 3.2 4.8#





#39

cis-1,3-Dichloropropene

Concen: 0.733 ug/L

RT: 10.036 min Scan# 11

Delta R.T. -0.037 min

Lab File: VW021536.D

Acq: 21 Dec 2021 20:41

Instrument :

MSVOA_W

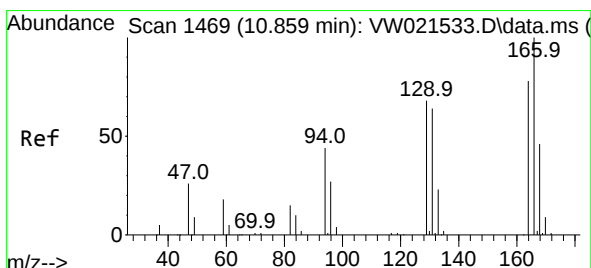
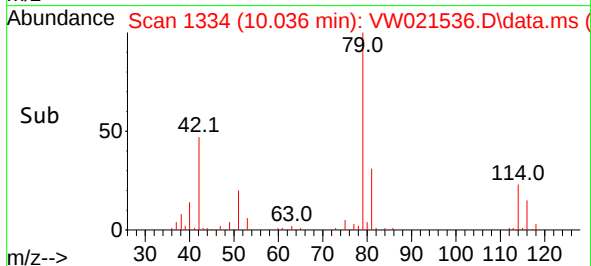
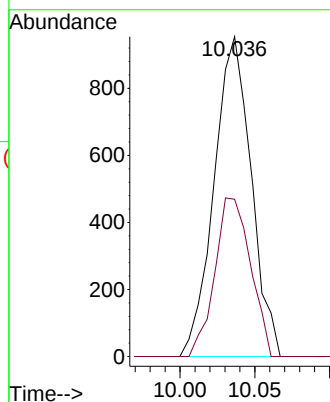
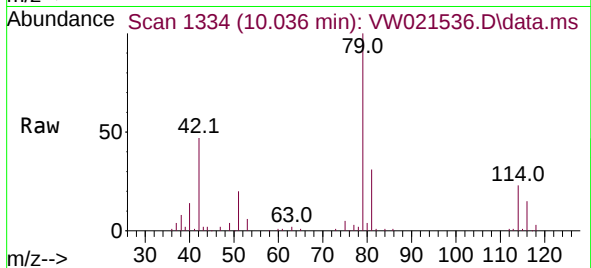
ClientSampleId :

Tgt Ion: 75 Resp: 1645

Ion Ratio Lower Upper

75 100

77 49.2 21.8 40.6#



#46

Tetrachloroethene

Concen: 0.668 ug/L

RT: 10.859 min Scan# 1469

Delta R.T. 0.000 min

Lab File: VW021536.D

Acq: 21 Dec 2021 20:41

Tgt Ion:164 Resp: 1136

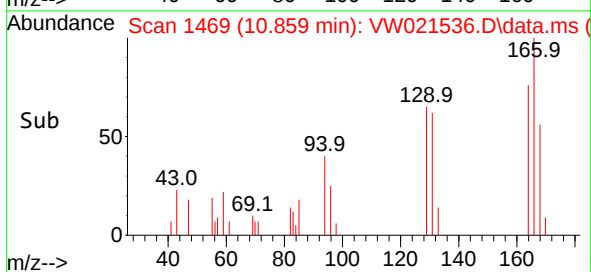
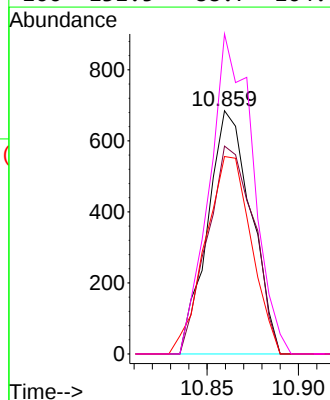
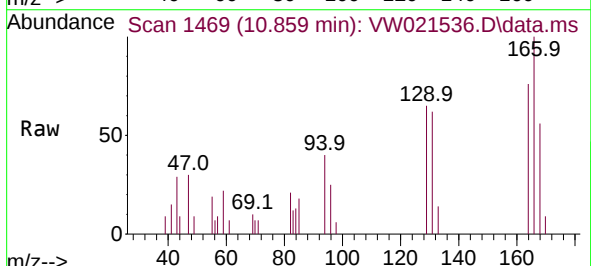
Ion Ratio Lower Upper

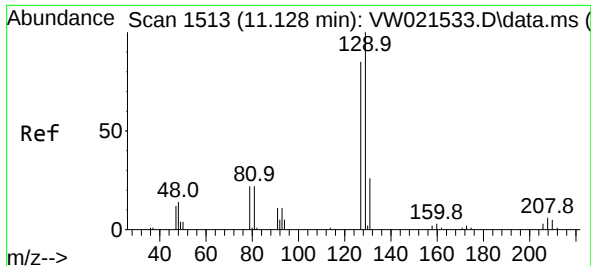
164 100

129 85.4 65.5 121.7

131 81.2 59.7 110.9

166 131.5 88.7 164.7





#49

Dibromochloromethane

Concen: 0.688 ug/L

RT: 10.859 min Scan# 1469

Delta R.T. -0.268 min

Lab File: VW021536.D

Acq: 21 Dec 2021 20:41

Instrument :

MSVOA_W

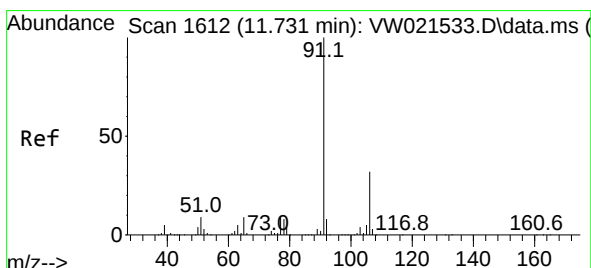
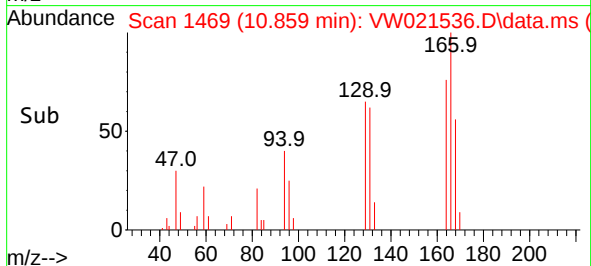
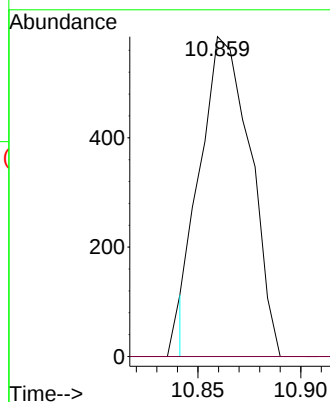
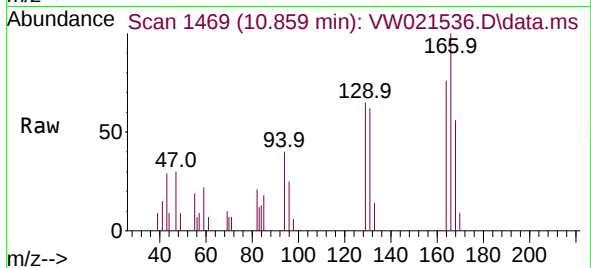
ClientSampleId :

Tgt Ion:129 Resp: 988

Ion Ratio Lower Upper

129 100

127 0.0 55.7 103.5#



#52

Ethylbenzene

Concen: 1.172 ug/L

RT: 11.731 min Scan# 1612

Delta R.T. 0.000 min

Lab File: VW021536.D

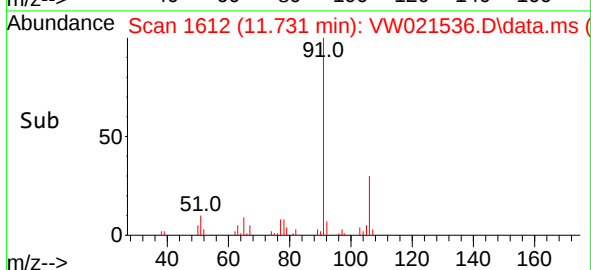
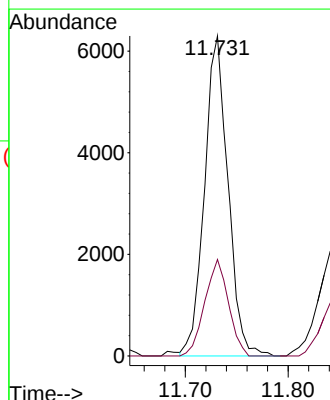
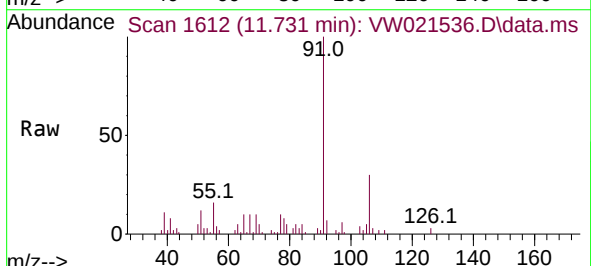
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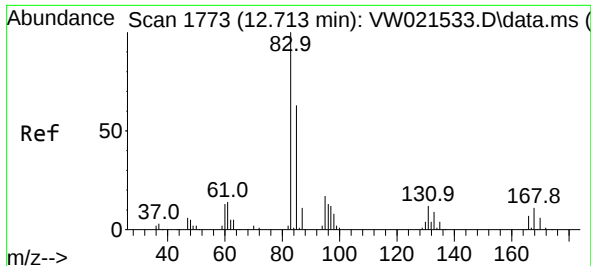
Tgt Ion: 91 Resp: 9996

Ion Ratio Lower Upper

91 100

106 30.2 21.5 39.9

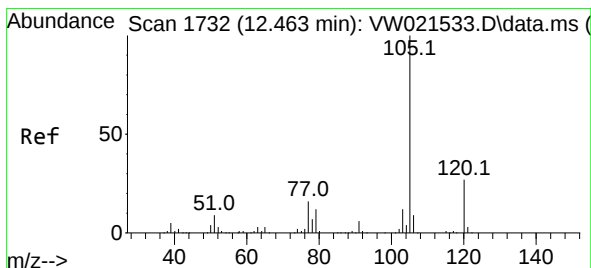
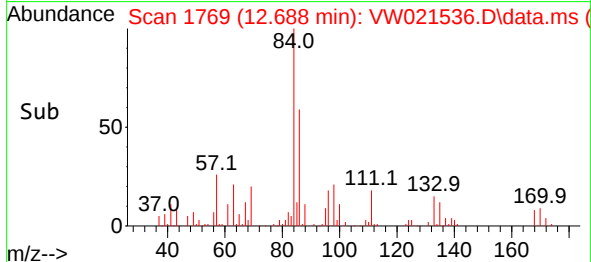
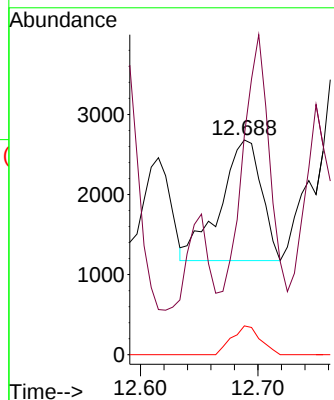
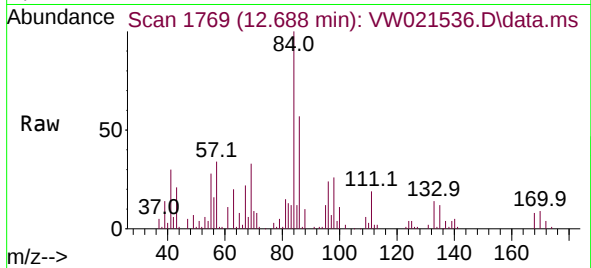




#57
1,1,2-Tetrachloroethane
Concen: 2.738 ug/L
RT: 12.688 min Scan# 1769
Delta R.T. -0.024 min
Lab File: VW021536.D
Acq: 21 Dec 2021 20:41

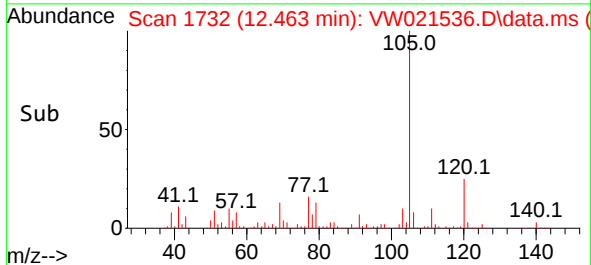
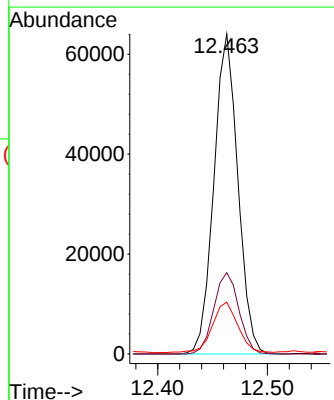
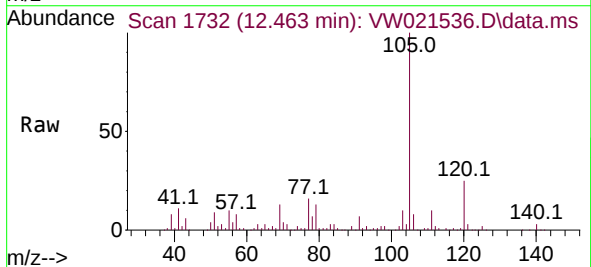
Instrument :
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ClientSampleId :

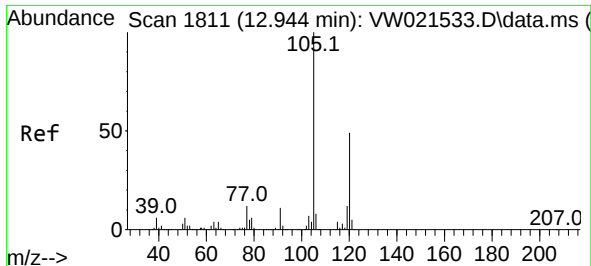
Tgt Ion: 83 Resp: 3656
Ion Ratio Lower Upper
83 100
85 102.1 44.0 81.6#
131 13.4 6.9 10.3#



#60
Isopropylbenzene
Concen: 13.271 ug/L
RT: 12.463 min Scan# 1732
Delta R.T. 0.000 min
Lab File: VW021536.D
Acq: 21 Dec 2021 20:41

Tgt Ion:105 Resp: 97253
Ion Ratio Lower Upper
105 100
120 26.5 20.1 30.1
77 16.6 13.8 20.8





#62

1,3,5-Trimethylbenzene

Concen: 6.340 ug/L

RT: 13.249 min Scan# 1861

Delta R.T. 0.305 min

Lab File: VW021536.D

Acq: 21 Dec 2021 20:41

Instrument :

MSVOA_W

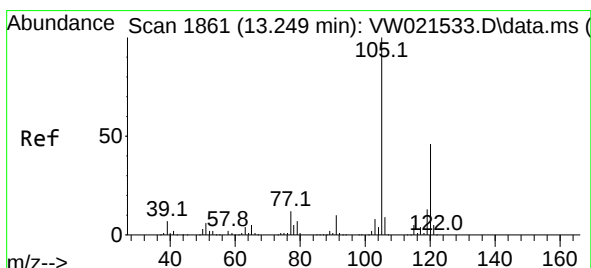
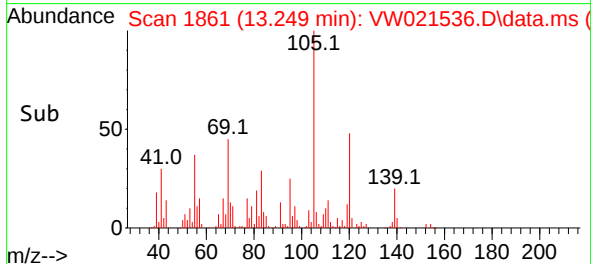
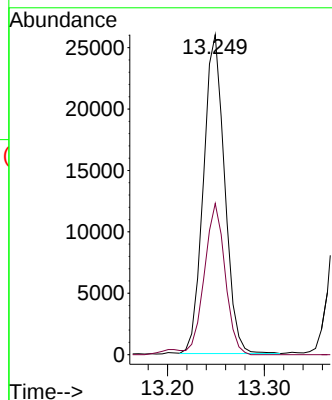
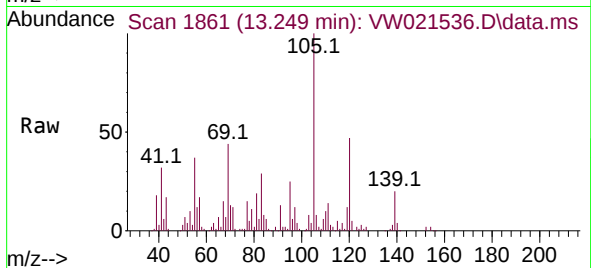
ClientSampleId :

Tgt Ion:105 Resp: 39534

Ion Ratio Lower Upper

105 100

120 46.4 37.4 56.2



#63

1,2,4-Trimethylbenzene

Concen: 6.426 ug/L

RT: 13.249 min Scan# 1861

Delta R.T. 0.000 min

Lab File: VW021536.D

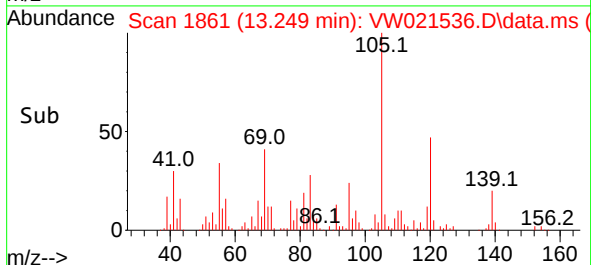
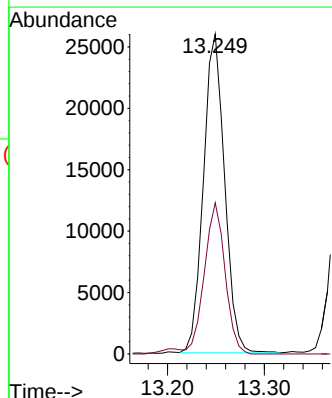
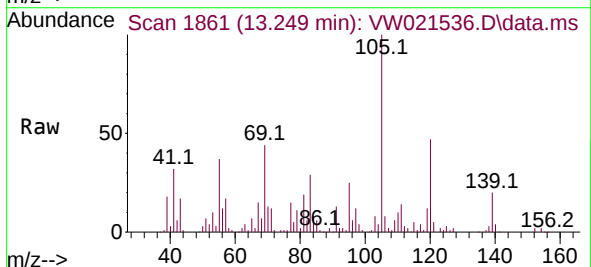
Acq: 21 Dec 2021 20:41

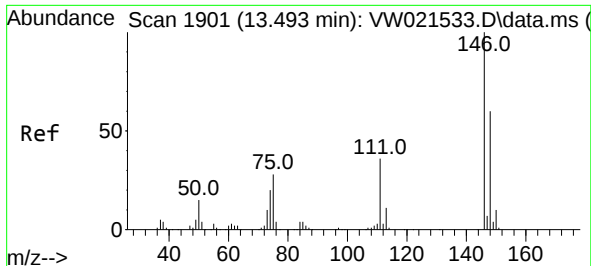
Tgt Ion:105 Resp: 39534

Ion Ratio Lower Upper

105 100

120 46.4 35.0 52.6

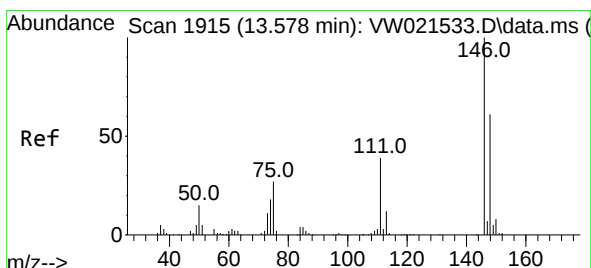
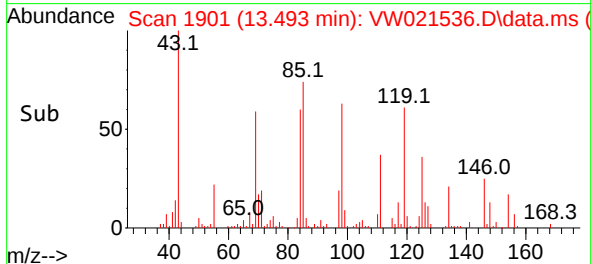
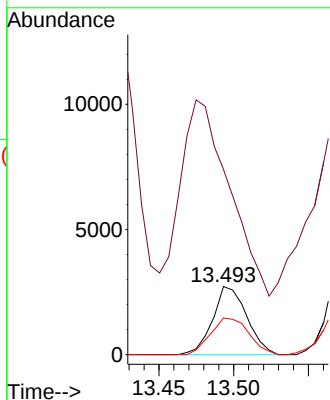
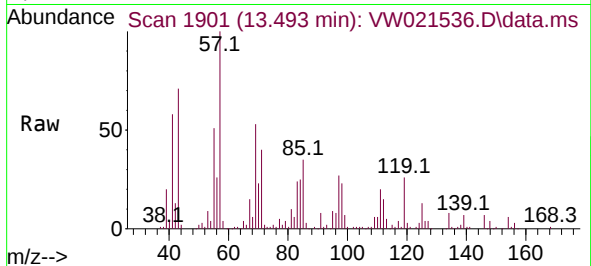




#64
1,3-Dichlorobenzene
Concen: 1.248 ug/L
RT: 13.493 min Scan# 1901
Delta R.T. 0.000 min
Lab File: VW021536.D
Acq: 21 Dec 2021 20:41

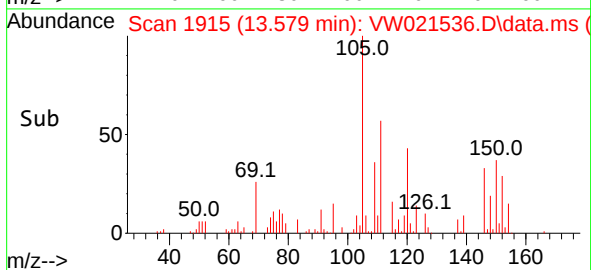
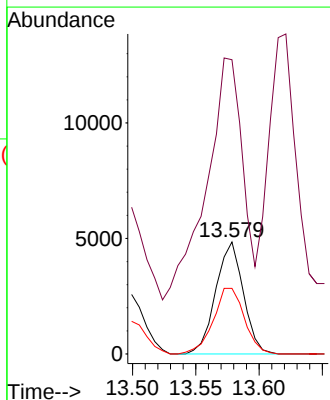
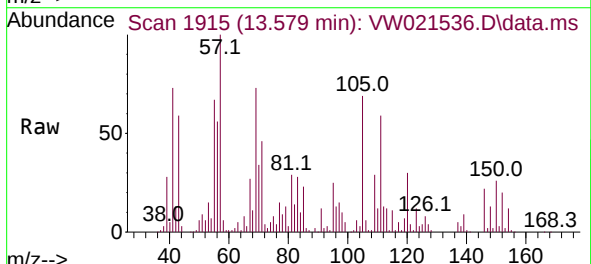
Instrument :
MSVOA_W
ClientSampleId :

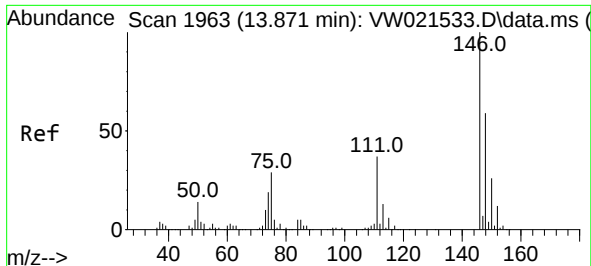
Tgt Ion:146 Resp: 4315
Ion Ratio Lower Upper
146 100
111 272.0 29.8 55.3#
148 53.9 46.2 85.8



#65
1,4-Dichlorobenzene
Concen: 2.145 ug/L
RT: 13.579 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VW021536.D
Acq: 21 Dec 2021 20:41

Tgt Ion:146 Resp: 7365
Ion Ratio Lower Upper
146 100
111 262.8 29.0 53.9#
148 58.6 46.9 87.1





#67

1,2-Dichlorobenzene

Concen: 7.086 ug/L

RT: 13.865 min Scan# 1962

Delta R.T. -0.006 min

Lab File: VW021536.D

Acq: 21 Dec 2021 20:41

Instrument :

MSVOA_W

ClientSampleId :

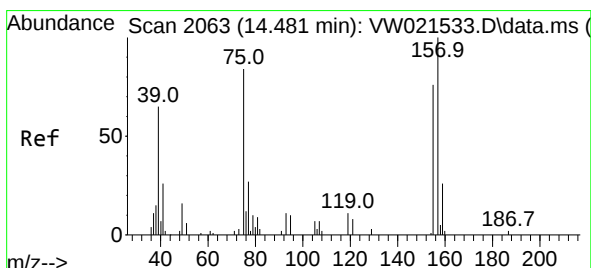
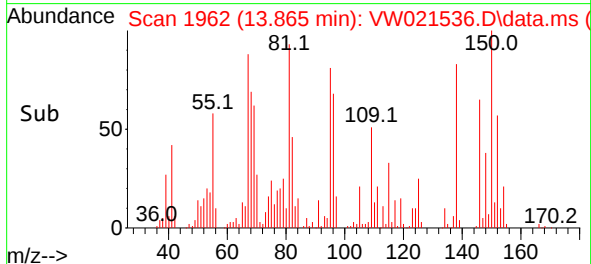
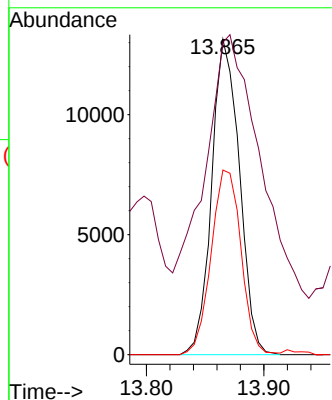
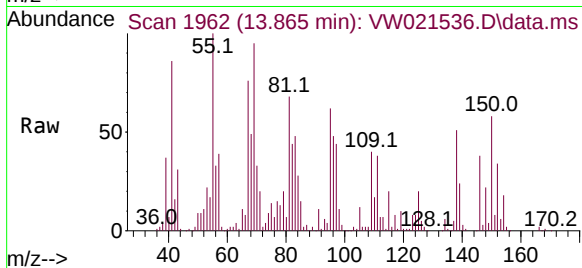
Tgt Ion:146 Resp: 21565

Ion Ratio Lower Upper

146 100

111 99.0 33.1 49.7#

148 58.5 47.4 71.2



#68

1,2-Dibromo-3-chloropropane

Concen: 12.372 ug/L

RT: 14.414 min Scan# 2052

Delta R.T. -0.067 min

Lab File: VW021536.D

Acq: 21 Dec 2021 20:41

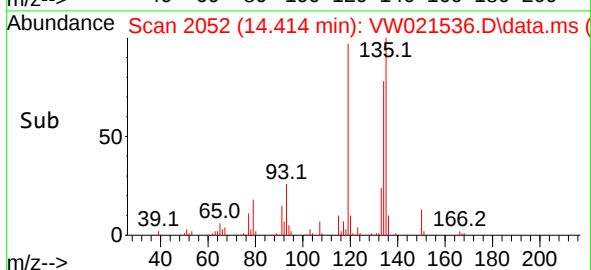
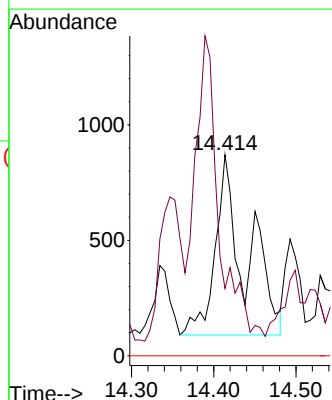
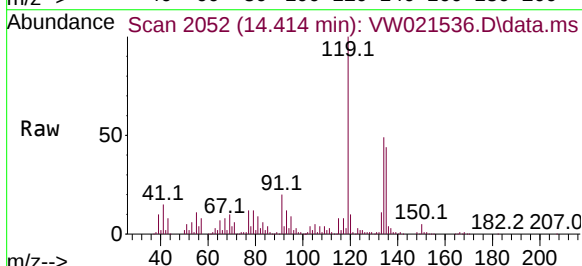
Tgt Ion: 75 Resp: 2003

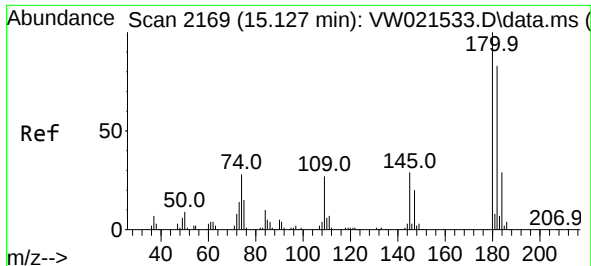
Ion Ratio Lower Upper

75 100

155 33.6 54.2 81.2#

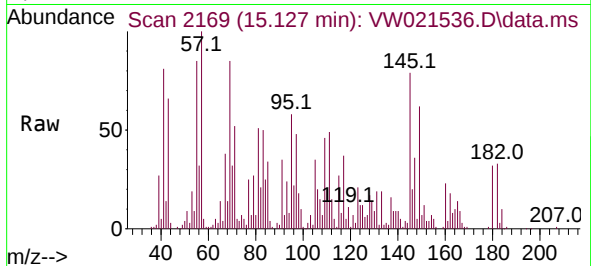
157 0.0 69.4 104.2#



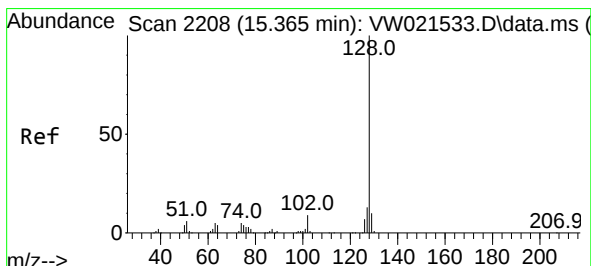
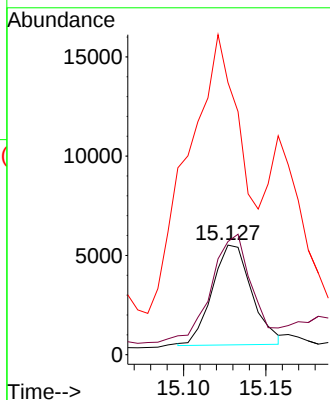
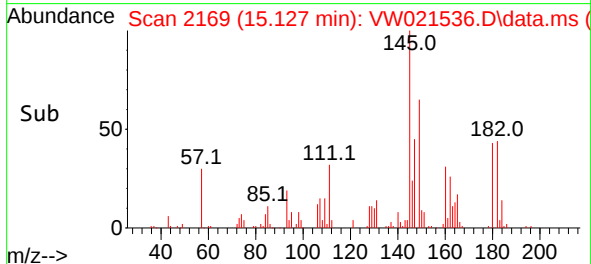


#70
1,2,4-trichlorobenzene
Concen: 4.053 ug/L
RT: 15.127 min Scan# 2169
Delta R.T. 0.000 min
Lab File: VW021536.D
Acq: 21 Dec 2021 20:41

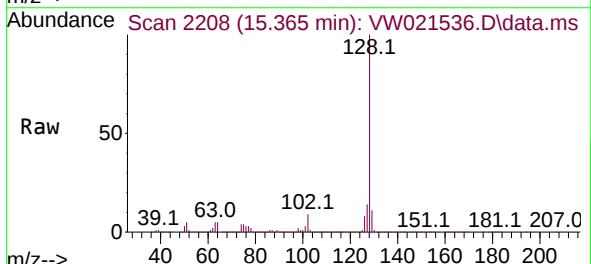
Instrument :
MSVOA_W
ClientSampleId :



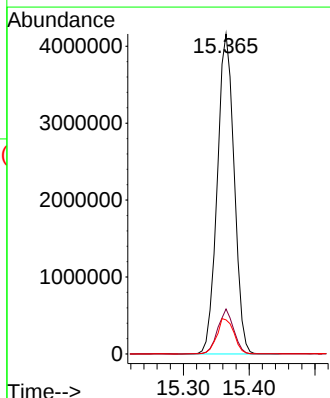
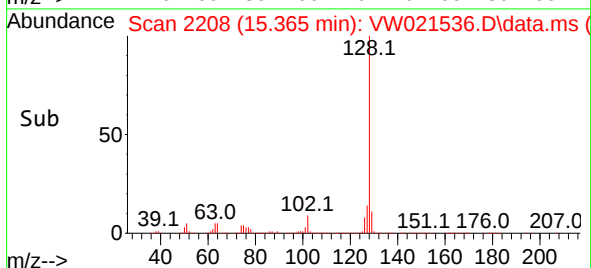
Tgt Ion:180 Resp: 8422
Ion Ratio Lower Upper
180 100
182 112.3 79.0 118.6
145 411.2 26.0 39.0#

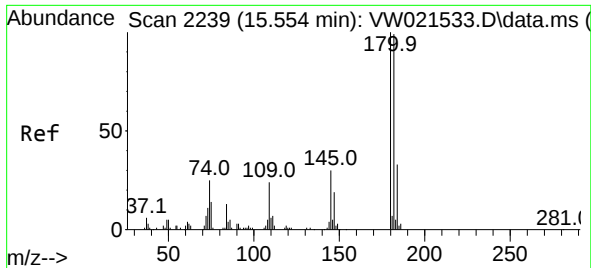


#71
Naphthalene
Concen: 2202.812 ug/L
RT: 15.365 min Scan# 2208
Delta R.T. 0.000 min
Lab File: VW021536.D
Acq: 21 Dec 2021 20:41



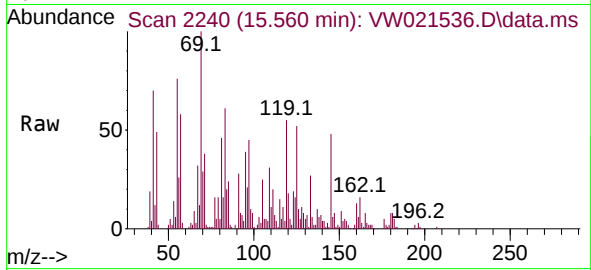
Tgt Ion:128 Resp: 7436890
Ion Ratio Lower Upper
128 100
127 13.2 10.7 16.1
129 11.2 8.6 12.8





#72
 1,2,3-Trichlorobenzene
 Concen: 1.310 ug/L
 RT: 15.560 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VW021536.D
 Acq: 21 Dec 2021 20:41

Instrument :
 MSVOA_W
 ClientSampleId :



Tgt Ion:180 Resp: 2250
 Ion Ratio Lower Upper
 180 100
 182 52.8 76.6 114.8#
 145 1078.1 27.4 41.0#

