

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
 Data File : VW021467.D
 Acq On : 18 Dec 2021 11:29
 Operator : SY/VA
 Sample : M5154-08
 Misc : 6.85g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 18 23:10:59 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	8.848	114	159857	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.634	117	155758	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.554	152	80693	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.349	65	52598	18.066	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	72.280%
7) Chloroethane-d5	2.885	69	31276	16.250	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	65.000%
11) 1,1-Dichloroethene-d2	4.013	63	63763	16.428	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	65.720%
21) 2-Butanone-d5	7.086	46	22016	53.646	ug/L	0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	107.300%
24) Chloroform-d	7.653	84	93945	21.088	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	84.360%
26) 1,2-Dichloroethane-d4	8.305	65	53694	22.659	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	90.640%
32) Benzene-d6	8.275	84	186356	21.828	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	87.320%
36) 1,2-Dichloropropane-d6	9.275	67	53728	23.465	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	93.880%
41) Toluene-d8	10.323	98	185019	21.210	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	84.840%
43) trans-1,3-Dichloroprop...	10.579	79	23583	22.369	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	89.480%
47) 2-Hexanone-d5	10.927	63	19319	57.058	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	114.120%
56) 1,1,2,2-Tetrachloroeth...	12.689	84	44850	22.786	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	91.160%
66) 1,2-Dichlorobenzene-d4	13.853	152	58978	18.859	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	75.440%
Target Compounds						
					Qvalue	
5) Vinyl chloride	2.355	62	5806	1.809	ug/L	# 27
13) Acetone	4.147	43	22231	60.426	ug/L	95
14) Carbon disulfide	4.379	76	5532	1.081	ug/L	99
20) cis-1,2-Dichloroethene	7.171	96	109495	48.386	ug/L	75
22) 2-Butanone	7.183	43	5166	10.752	ug/L	# 47
27) 1,2-Dichloroethane	8.397	62	1881	0.760	ug/L	# 88
29) Cyclohexane	7.927	56	9722	3.136	ug/L	# 77
33) Benzene	8.323	78	66286	7.812	ug/L	100
35) Methylcyclohexane	9.335	83	19506	4.965	ug/L	# 71
37) 1,2-Dichloropropane	9.275	63	6742	3.562	ug/L	# 1
39) cis-1,3-Dichloropropene	10.037	75	2099	0.704	ug/L	# 65
40) 4-Methyl-2-pentanone	10.213	43	4840	4.693	ug/L	# 89
42) Toluene	10.390	91	369523	37.237	ug/L	97
45) 1,1,2-Trichloroethane	10.811	97	1338	0.864	ug/L	# 35
48) 2-Hexanone	10.933	43	12520	16.741	ug/L	# 29
51) Chlorobenzene	11.658	112	20631	3.105	ug/L	93
52) Ethylbenzene	11.731	91	5082622	448.197	ug/L	94
53) m,p-Xylene	11.835	106	5884592	1286.327	ug/L	74
54) o-Xylene	12.164	106	1620477	373.244	ug/L	85

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 Quant Title : SFAM01.0
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 Response via : Initial Calibration

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

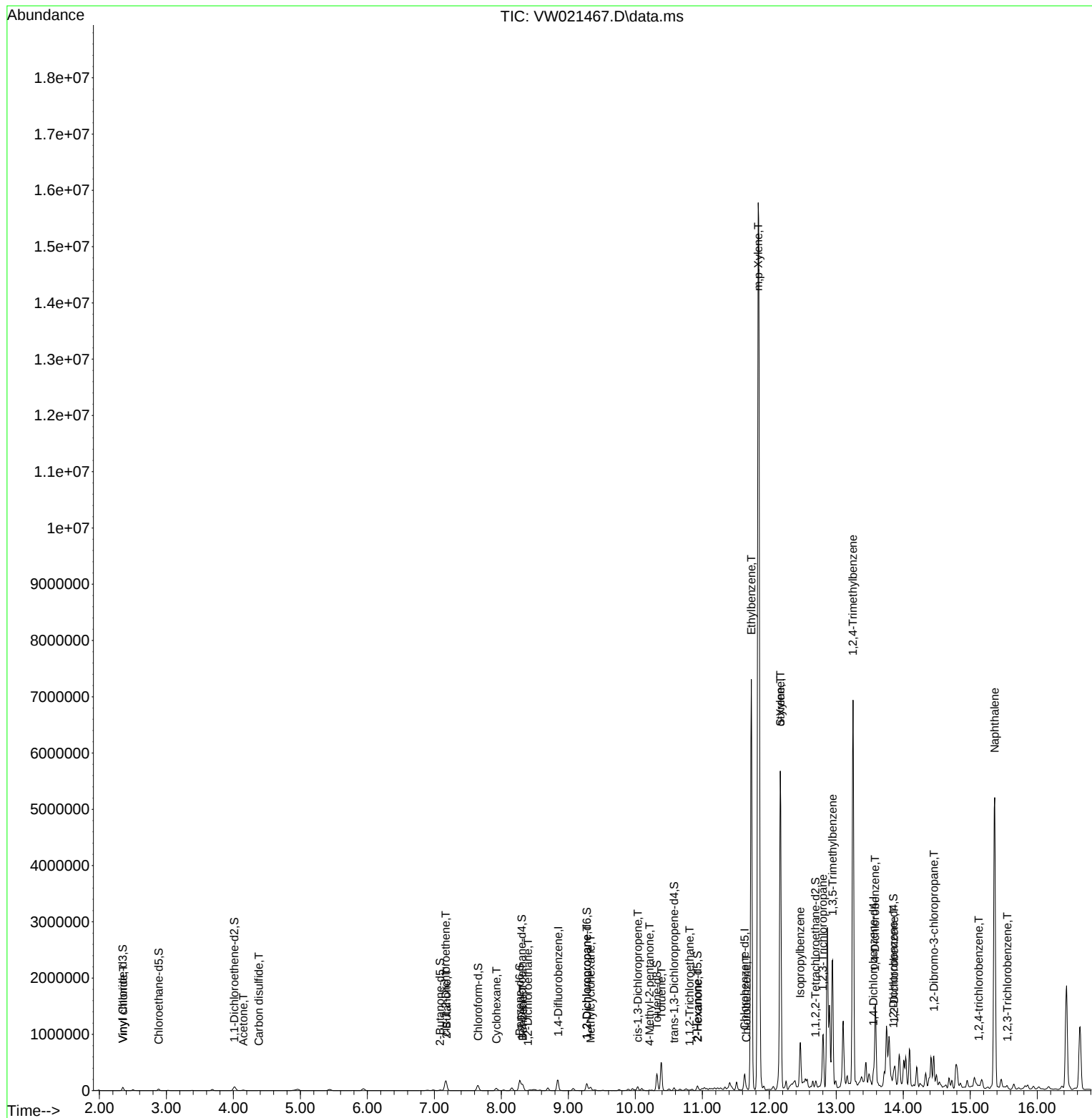
55) Styrene	12.164	104	84694	11.462	ug/L	#	1
60) Isopropylbenzene	12.463	105	518826	47.318	ug/L		95
61) 1,2,3-Trichloropropane	12.798	75	4868	4.145	ug/L	#	1
62) 1,3,5-Trimethylbenzene	12.945	105	1161245	124.460	ug/L		95
63) 1,2,4-Trimethylbenzene	13.249	105	3911800	425.008	ug/L		94
65) 1,4-Dichlorobenzene	13.579	146	3605	0.702	ug/L	#	1
67) 1,2-Dichlorobenzene	13.865	146	48301	10.608	ug/L	#	94
68) 1,2-Dibromo-3-chloropr...	14.457	75	4794	19.791	ug/L	#	10
70) 1,2,4-trichlorobenzene	15.127	180	13395	4.308	ug/L	#	52
71) Naphthalene	15.365	128	4788893	948.069	ug/L		99
72) 1,2,3-Trichlorobenzene	15.554	180	5158	2.007	ug/L	#	54

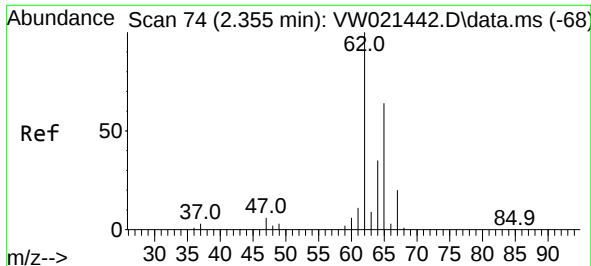
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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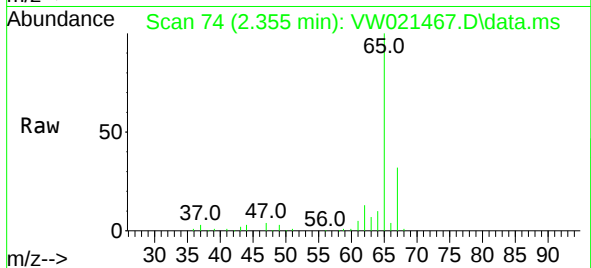
Quant Time: Dec 18 23:10:59 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0
QLast Update : Sat Dec 18 00:55:20 2021
Response via : Initial Calibration



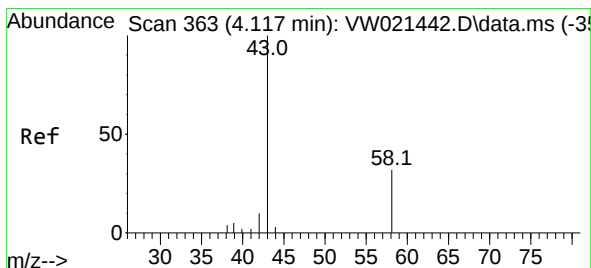
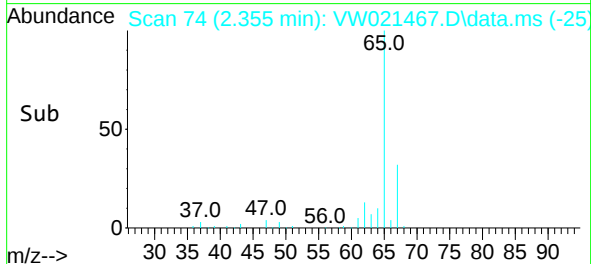
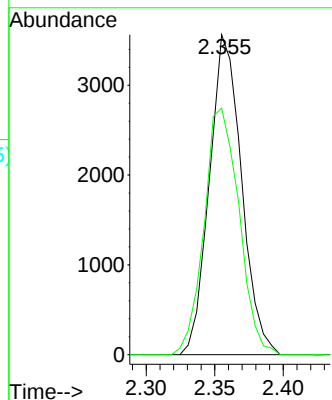


#5
 Vinyl chloride
 Concen: 1.809 ug/L
 RT: 2.355 min Scan# 74
 Delta R.T. 0.000 min
 Lab File: VW021467.D
 Acq: 18 Dec 2021 11:29

Instrument :
 MSVOA_W
 ClientSampleId :

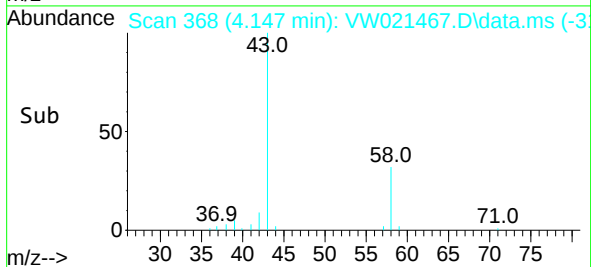
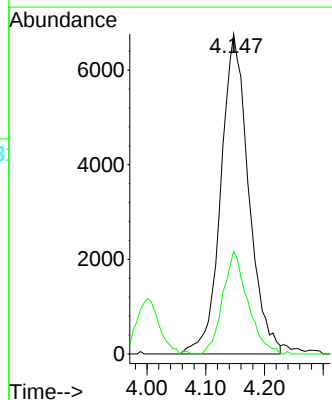
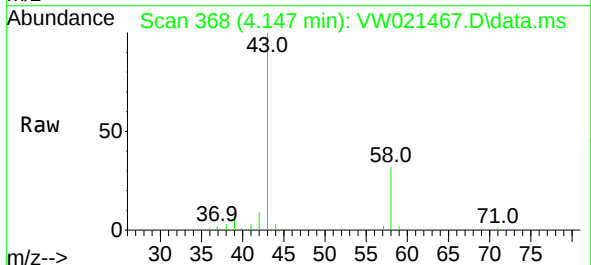


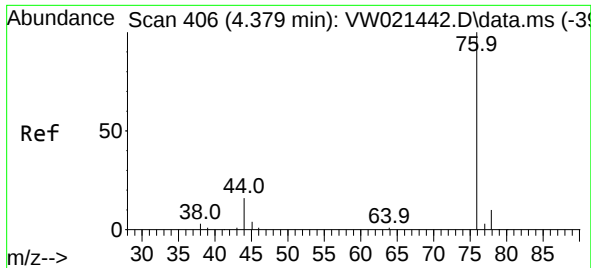
Tgt Ion: 62 Resp: 5806
 Ion Ratio Lower Upper
 62 100
 64 77.1 24.4 45.2#



#13
 Acetone
 Concen: 60.426 ug/L
 RT: 4.147 min Scan# 368
 Delta R.T. 0.031 min
 Lab File: VW021467.D
 Acq: 18 Dec 2021 11:29

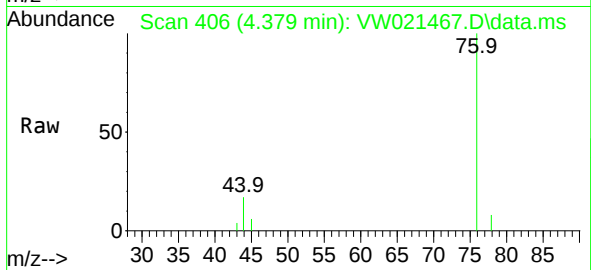
Tgt Ion: 43 Resp: 22231
 Ion Ratio Lower Upper
 43 100
 58 28.9 0.0 52.8



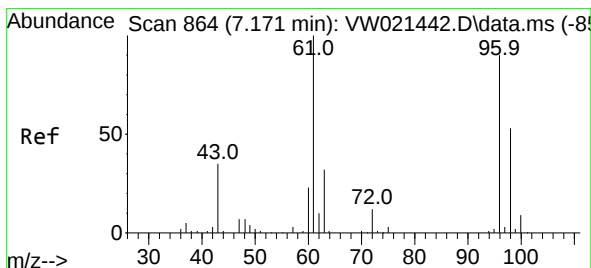
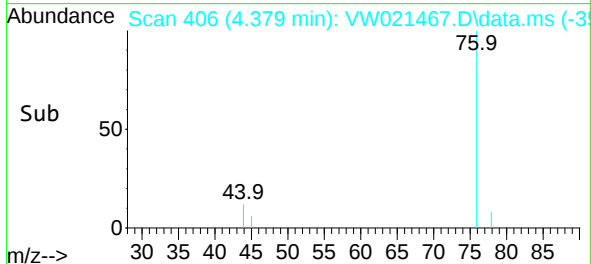
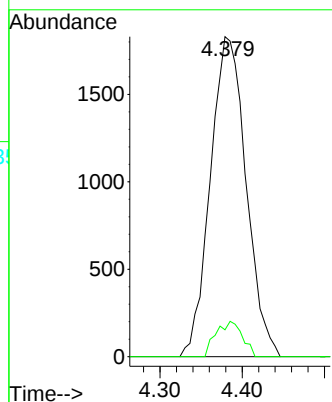


#14
Carbon disulfide
Concen: 1.081 ug/L
RT: 4.379 min Scan# 406
Delta R.T. 0.000 min
Lab File: VW021467.D
Acq: 18 Dec 2021 11:29

Instrument :
MSVOA_W
ClientSampleId :

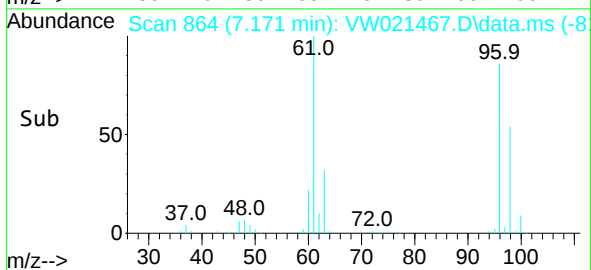
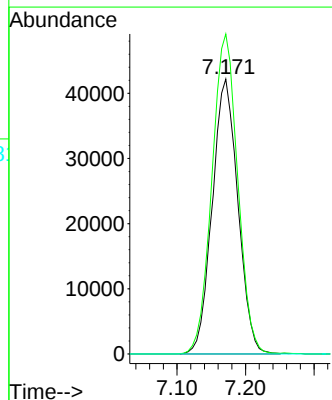
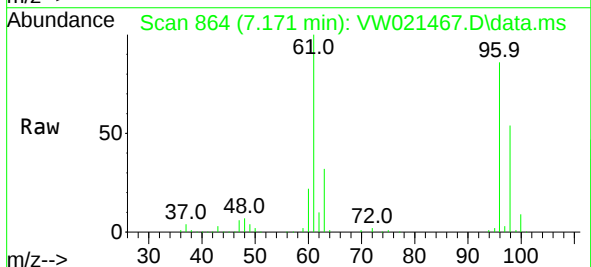


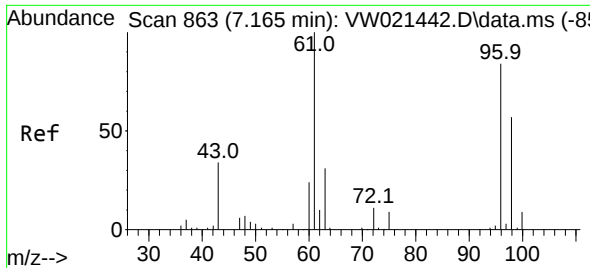
Tgt Ion: 76 Resp: 5532
Ion Ratio Lower Upper
76 100
78 8.4 7.1 10.7



#20
cis-1,2-Dichloroethene
Concen: 48.386 ug/L
RT: 7.171 min Scan# 864
Delta R.T. 0.000 min
Lab File: VW021467.D
Acq: 18 Dec 2021 11:29

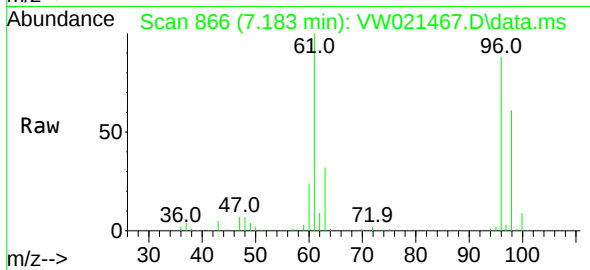
Tgt Ion: 96 Resp: 109495
Ion Ratio Lower Upper
96 100
61 116.4 103.7 192.7
68 0.0 0.0 0.0



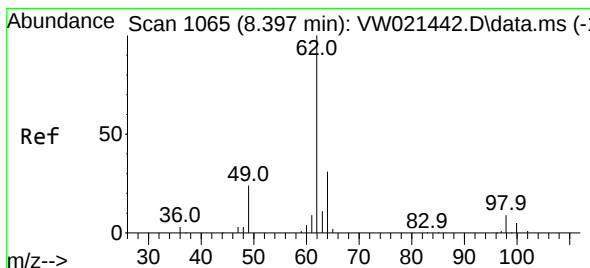
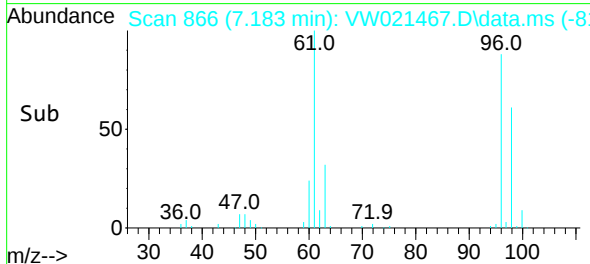
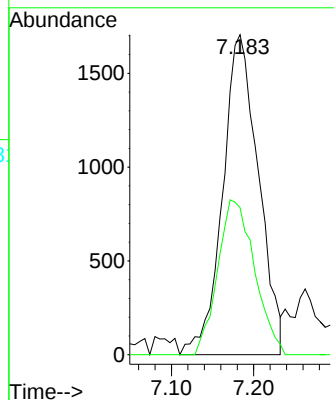


#22
2-Butanone
Concen: 10.752 ug/L
RT: 7.183 min Scan# 866
Delta R.T. 0.018 min
Lab File: VW021467.D
Acq: 18 Dec 2021 11:29

Instrument :
MSVOA_W
ClientSampleId :

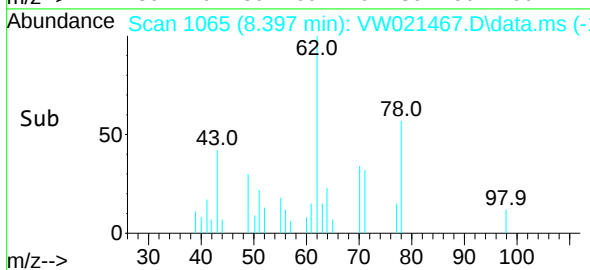
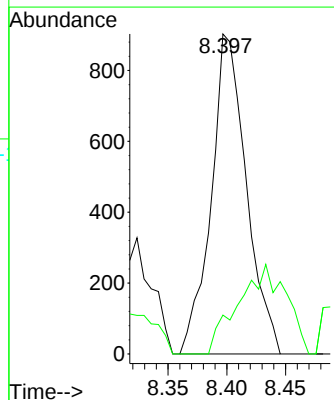
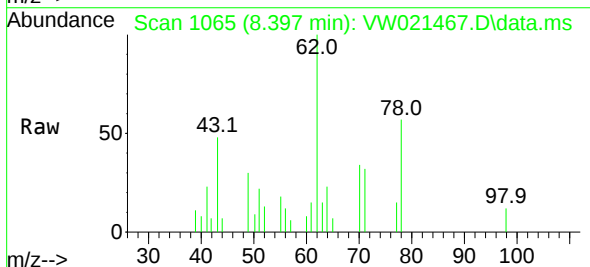


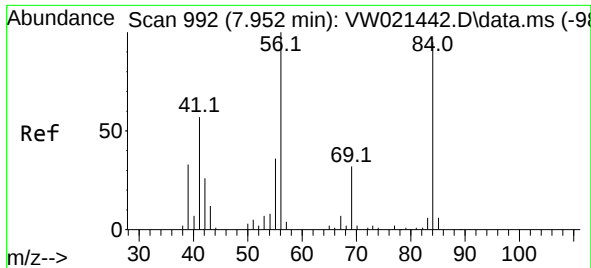
Tgt Ion: 43 Resp: 5166
Ion Ratio Lower Upper
43 100
72 49.7 11.8 35.4#



#27
1,2-Dichloroethane
Concen: 0.760 ug/L
RT: 8.397 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VW021467.D
Acq: 18 Dec 2021 11:29

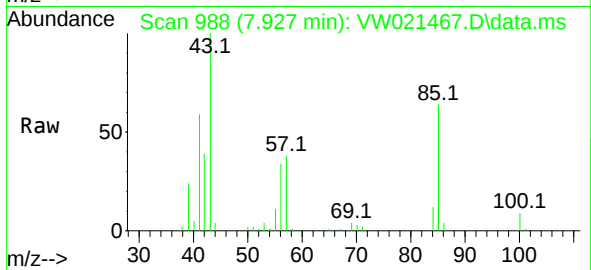
Tgt Ion: 62 Resp: 1881
Ion Ratio Lower Upper
62 100
98 12.2 6.5 9.7#



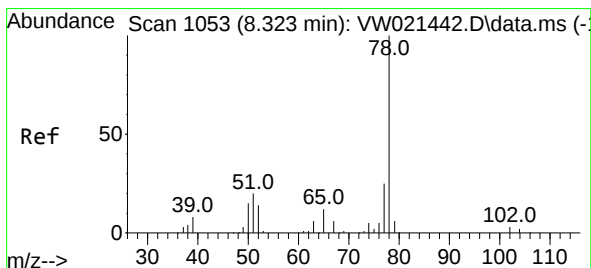
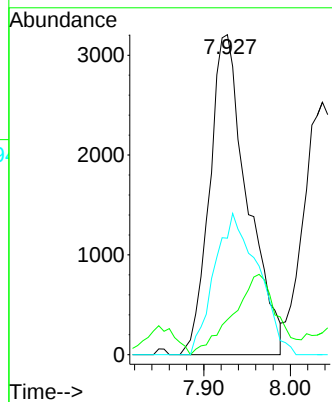
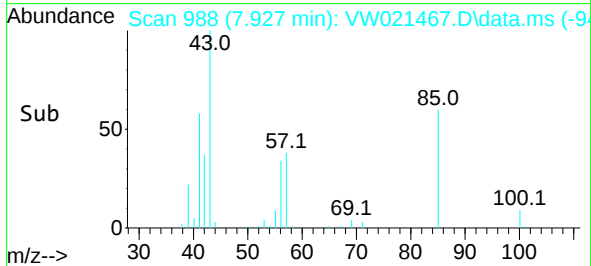


#29
Cyclohexane
Concen: 3.136 ug/L
RT: 7.927 min Scan# 91
Delta R.T. -0.024 min
Lab File: VW021467.D
Acq: 18 Dec 2021 11:29

Instrument :
MSVOA_W
ClientSampleId :

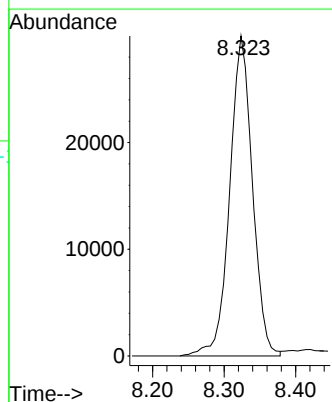
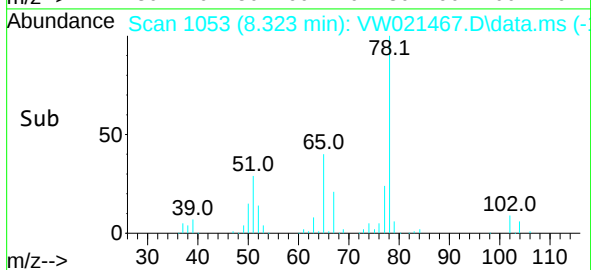
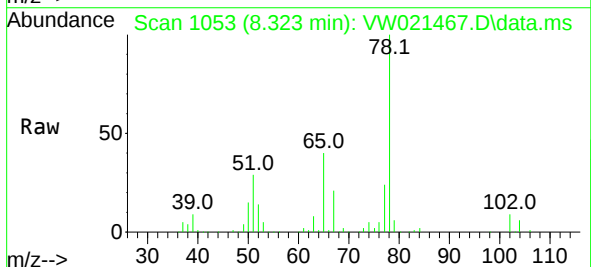


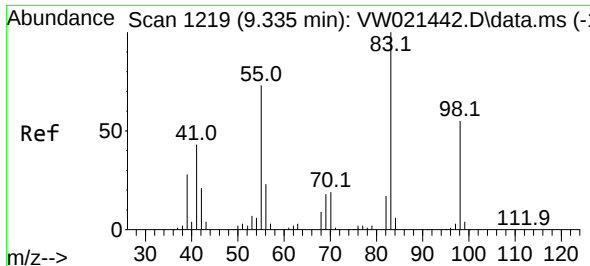
Tgt Ion: 56 Resp: 9722
Ion Ratio Lower Upper
56 100
69 29.3 23.5 35.3
84 51.3 63.4 95.2#



#33
Benzene
Concen: 7.812 ug/L
RT: 8.323 min Scan# 1053
Delta R.T. 0.000 min
Lab File: VW021467.D
Acq: 18 Dec 2021 11:29

Tgt Ion: 78 Resp: 66286

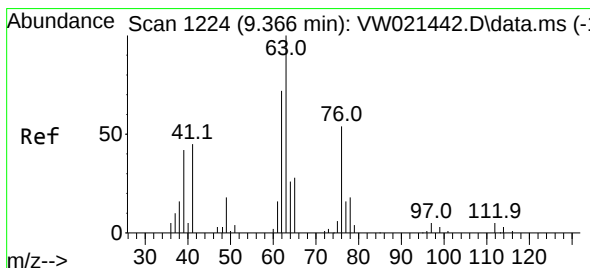
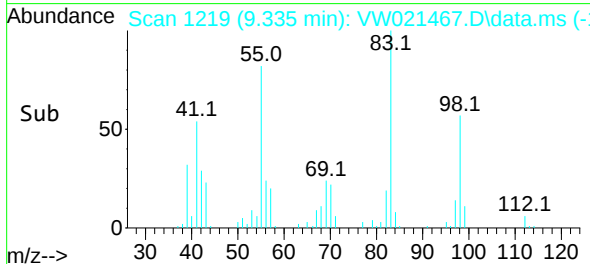
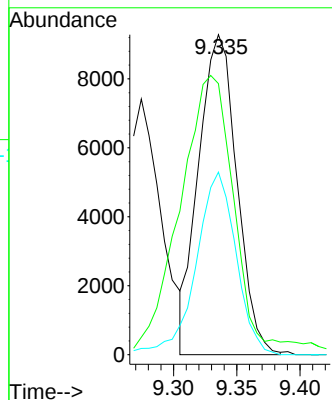
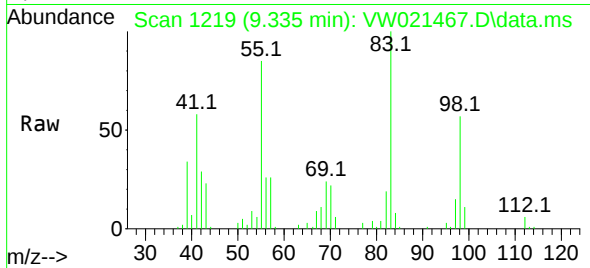




#35
Methylcyclohexane
Concen: 4.965 ug/L
RT: 9.335 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW021467.D
Acq: 18 Dec 2021 11:29

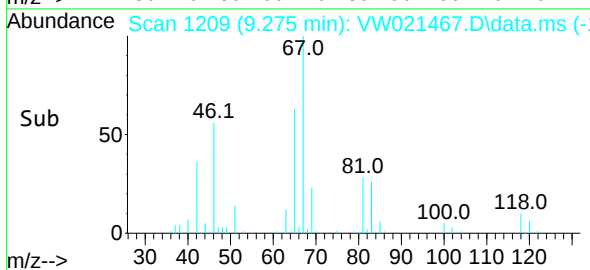
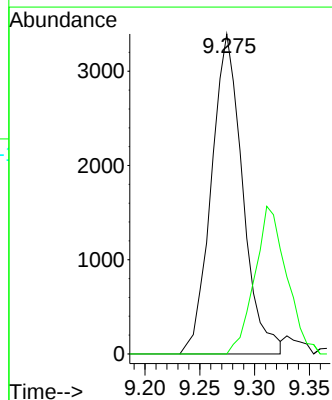
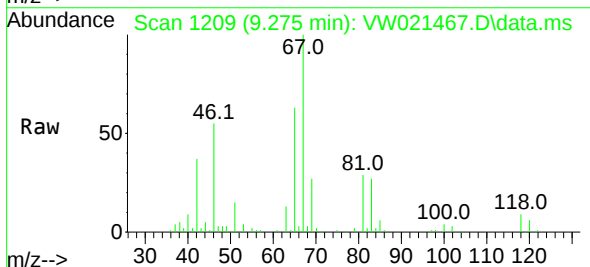
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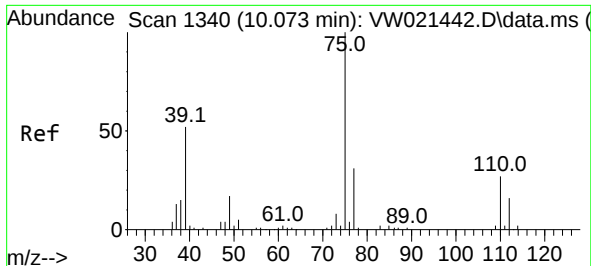
Tgt Ion: 83 Resp: 19506
Ion Ratio Lower Upper
83 100
55 121.0 70.8 106.2#
98 59.8 37.7 56.5#



#37
1,2-Dichloropropane
Concen: 3.562 ug/L
RT: 9.275 min Scan# 1209
Delta R.T. -0.091 min
Lab File: VW021467.D
Acq: 18 Dec 2021 11:29

Tgt Ion: 63 Resp: 6742
Ion Ratio Lower Upper
63 100
112 46.9 3.2 4.8#





#39

cis-1,3-Dichloropropene

Concen: 0.704 ug/L

RT: 10.037 min Scan# 11

Delta R.T. -0.037 min

Lab File: VW021467.D

Acq: 18 Dec 2021 11:29

Instrument :

MSVOA_W

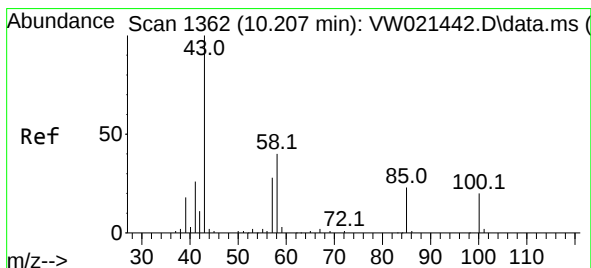
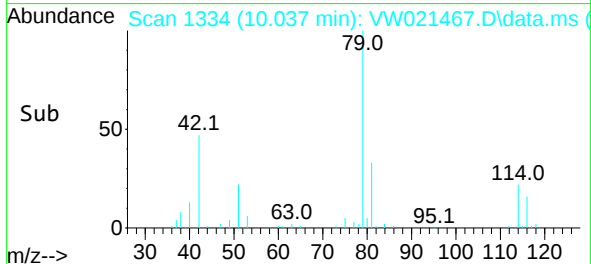
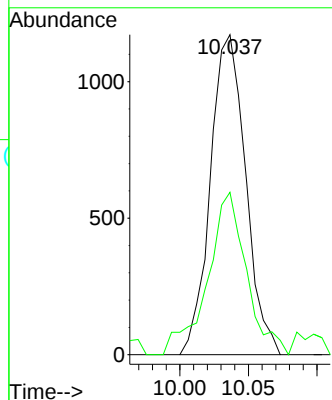
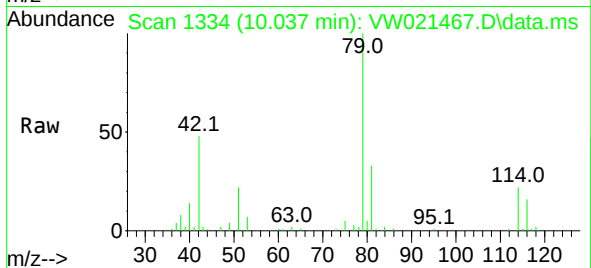
ClientSampleId :

Tgt Ion: 75 Resp: 2099

Ion Ratio Lower Upper

75 100

77 50.8 21.8 40.6#



#40

4-Methyl-2-pentanone

Concen: 4.693 ug/L

RT: 10.213 min Scan# 1363

Delta R.T. 0.006 min

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Acq: 18 Dec 2021 11:29

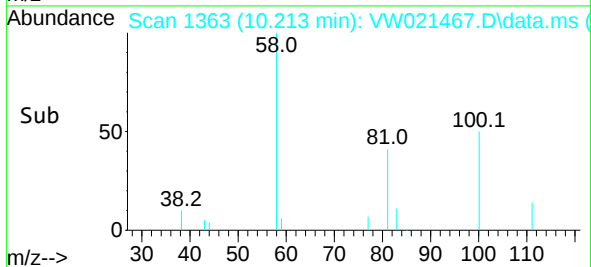
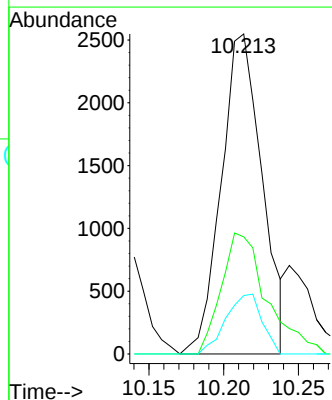
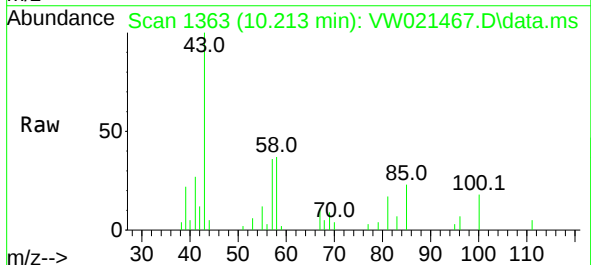
Tgt Ion: 43 Resp: 4840

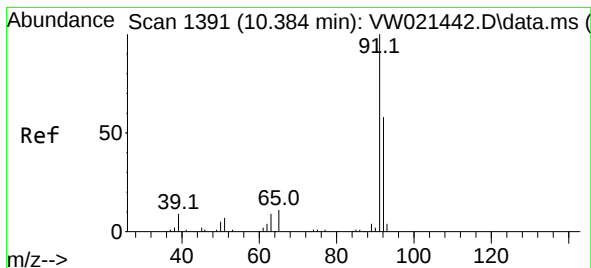
Ion Ratio Lower Upper

43 100

58 42.3 28.8 43.2

100 16.5 10.0 15.0#





#42

Toluene

Concen: 37.237 ug/L

RT: 10.390 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW021467.D

Acq: 18 Dec 2021 11:29

Instrument :

MSVOA_W

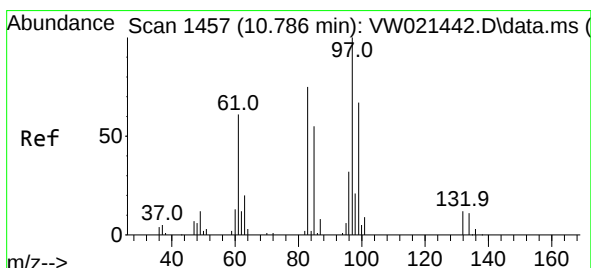
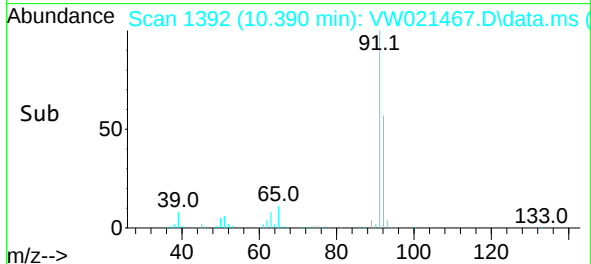
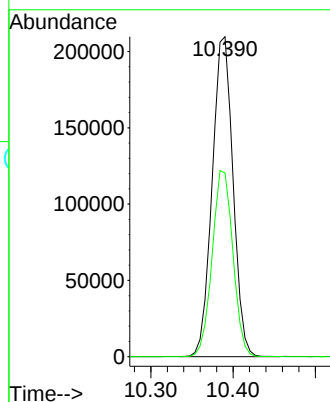
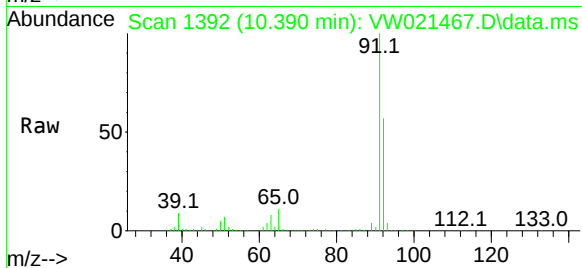
ClientSampleId :

Tgt Ion: 91 Resp: 369523

Ion Ratio Lower Upper

91 100

92 57.5 41.7 77.5



#45

1,1,2-Trichloroethane

Concen: 0.864 ug/L

RT: 10.811 min Scan# 1461

Delta R.T. 0.024 min

Lab File: VW021467.D

Acq: 18 Dec 2021 11:29

Tgt Ion: 97 Resp: 1338

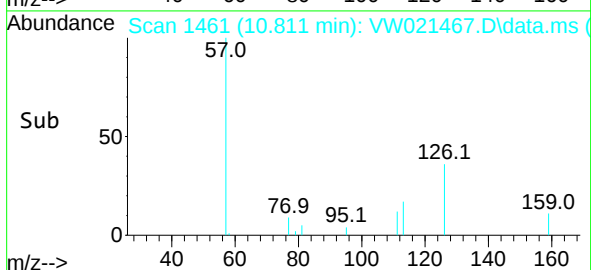
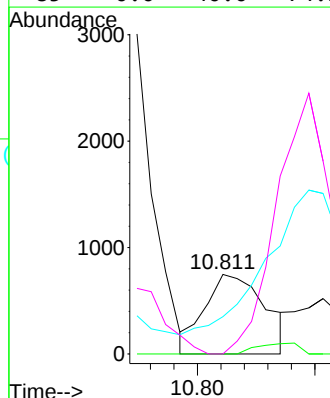
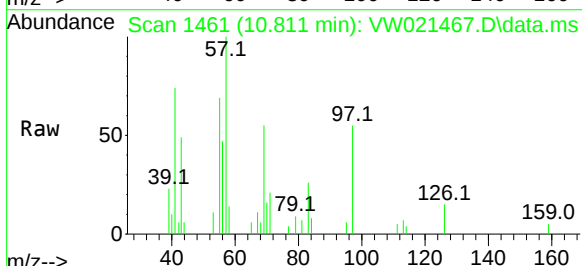
Ion Ratio Lower Upper

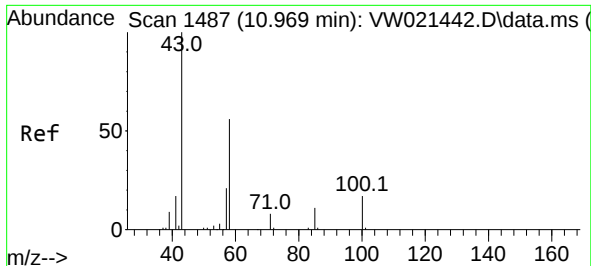
97 100

99 0.0 43.0 79.8#

83 46.8 62.6 116.3#

85 0.0 40.0 74.2#





#48

2-Hexanone

Concen: 16.741 ug/L

RT: 10.933 min Scan# 14

Delta R.T. -0.037 min

Lab File: VW021467.D

Acq: 18 Dec 2021 11:29

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 43 Resp: 12520

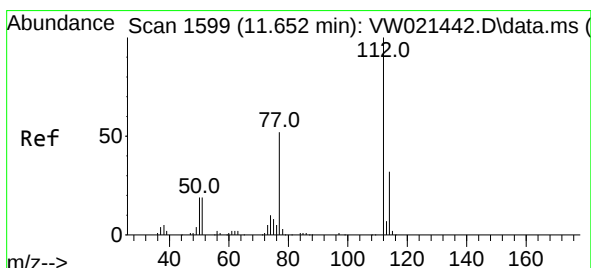
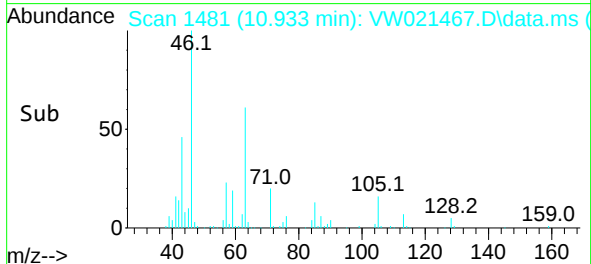
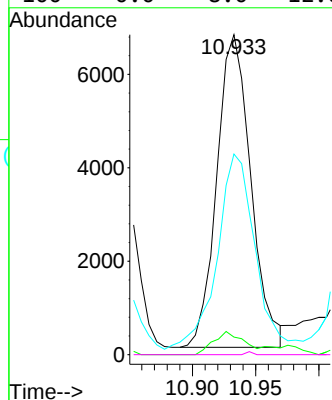
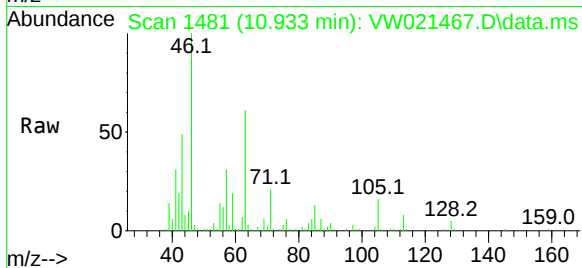
Ion Ratio Lower Upper

43 100

58 6.6 40.2 60.2#

57 69.5 14.3 21.5#

100 0.0 8.0 12.0#



#51

Chlorobenzene

Concen: 3.105 ug/L

RT: 11.658 min Scan# 1600

Delta R.T. 0.006 min

Lab File: VW021467.D

Acq: 18 Dec 2021 11:29

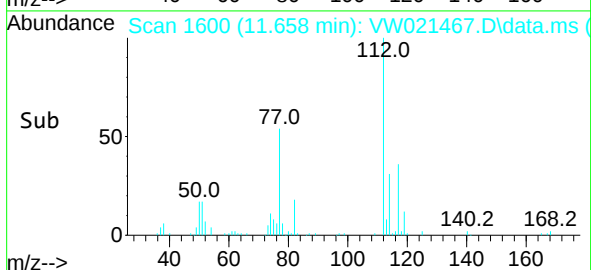
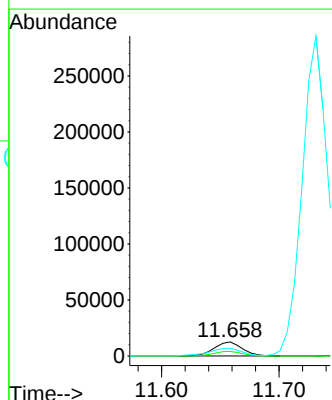
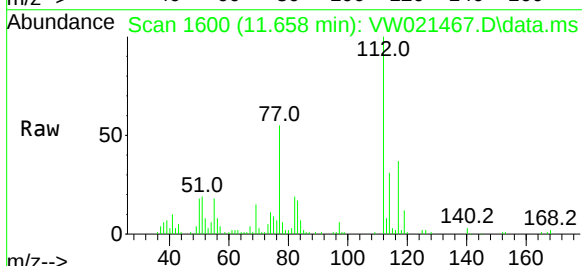
Tgt Ion: 112 Resp: 20631

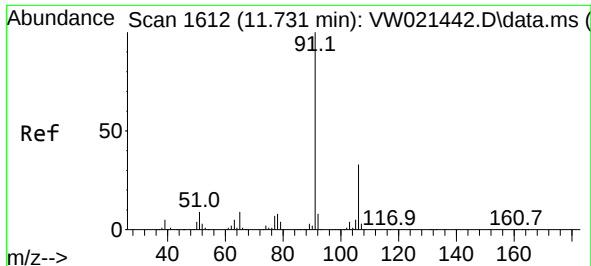
Ion Ratio Lower Upper

112 100

114 31.4 22.4 41.6

77 55.3 50.2 75.4





#52

Ethylbenzene

Concen: 448.197 ug/L

RT: 11.731 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW021467.D

Acq: 18 Dec 2021 11:29

Instrument :

MSVOA_W

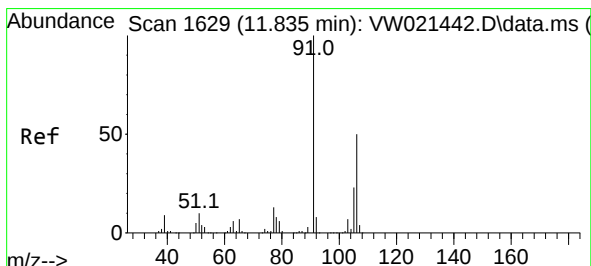
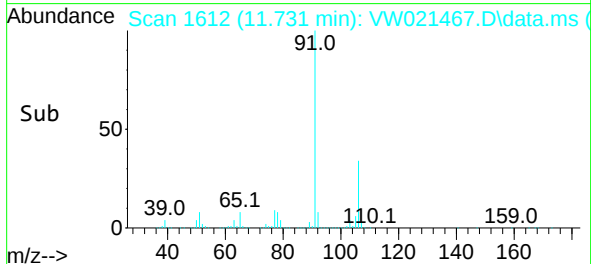
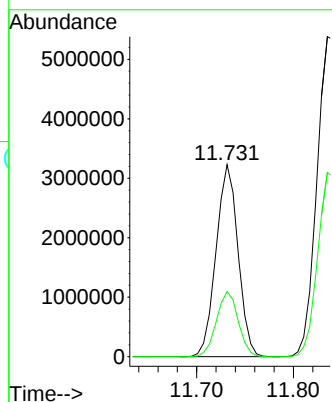
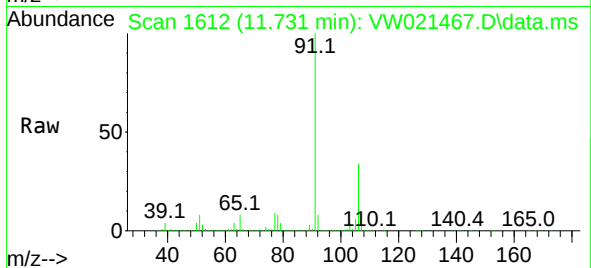
ClientSampleId :

Tgt Ion: 91 Resp: 5082622

Ion Ratio Lower Upper

91 100

106 34.0 21.5 39.9



#53

m,p-Xylene

Concen: 1286.327 ug/L

RT: 11.835 min Scan# 1629

Delta R.T. 0.000 min

Lab File: VW021467.D

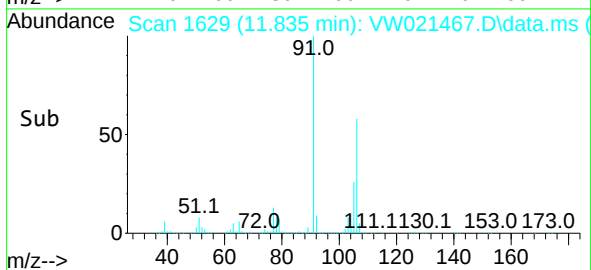
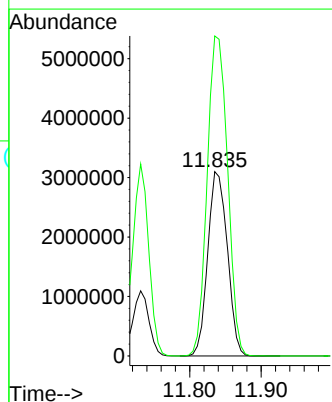
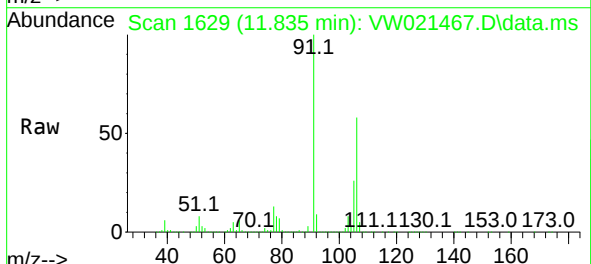
Acq: 18 Dec 2021 11:29

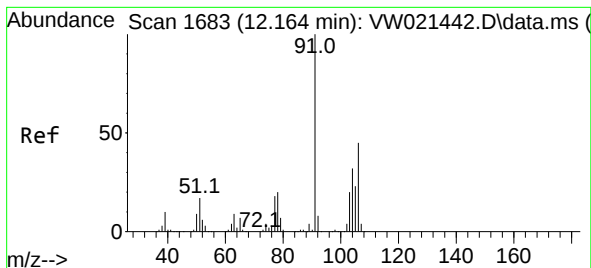
Tgt Ion:106 Resp: 5884592

Ion Ratio Lower Upper

106 100

91 173.6 149.9 278.3





#54

o-Xylene

Concen: 373.244 ug/L

RT: 12.164 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW021467.D

Acq: 18 Dec 2021 11:29

Instrument :

MSVOA_W

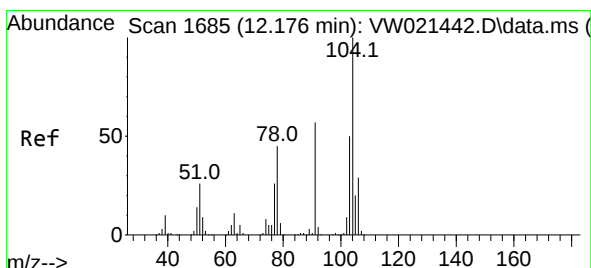
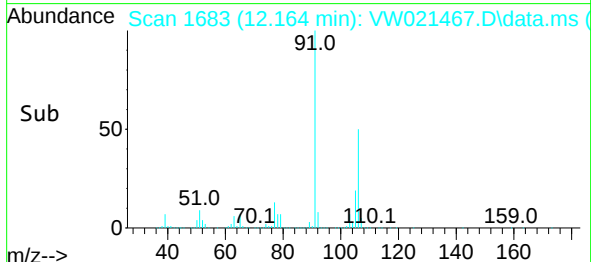
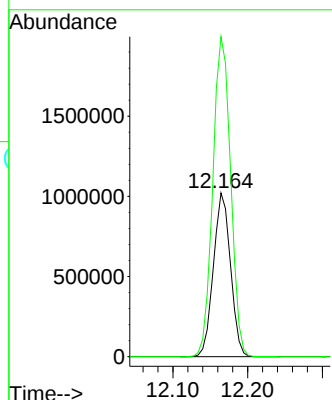
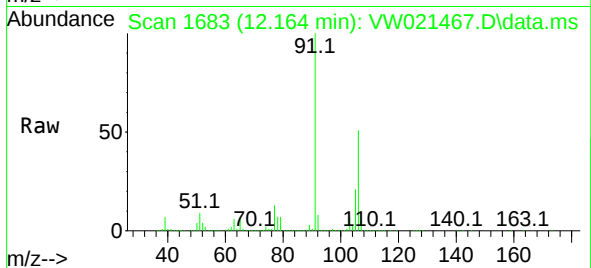
ClientSampleId :

Tgt Ion:106 Resp: 1620477

Ion Ratio Lower Upper

106 100

91 195.5 153.6 285.3



#55

Styrene

Concen: 11.462 ug/L

RT: 12.164 min Scan# 1683

Delta R.T. -0.012 min

Lab File: VW021467.D

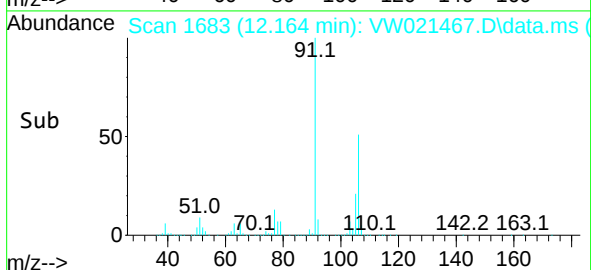
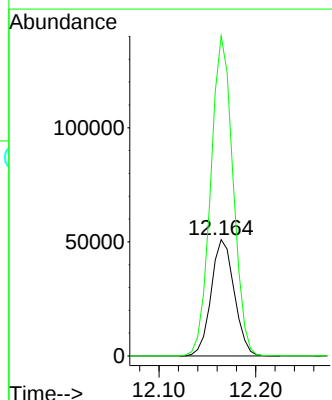
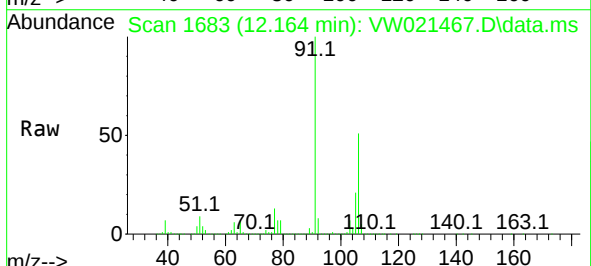
Acq: 18 Dec 2021 11:29

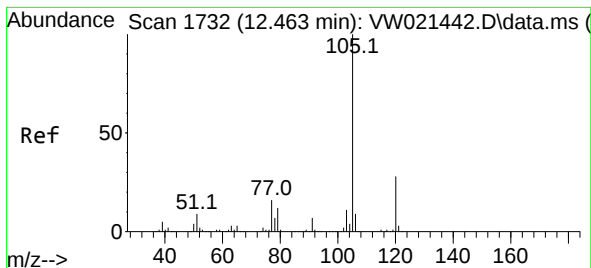
Tgt Ion:104 Resp: 84694

Ion Ratio Lower Upper

104 100

78 275.1 34.4 64.0#





#60

Isopropylbenzene

Concen: 47.318 ug/L

RT: 12.463 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW021467.D

Acq: 18 Dec 2021 11:29

Instrument :

MSVOA_W

ClientSampleId :

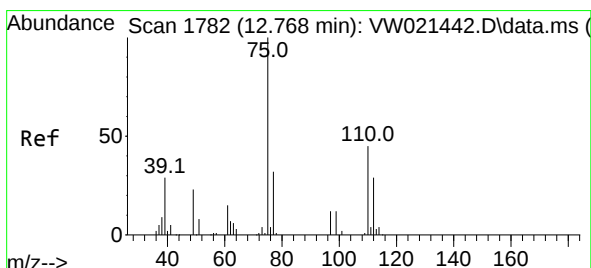
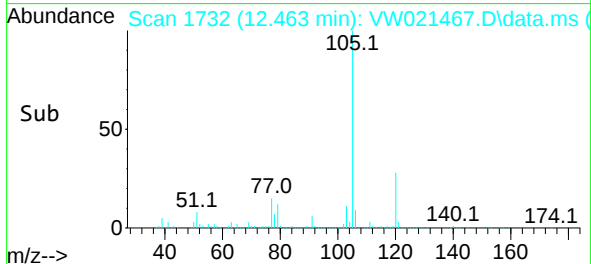
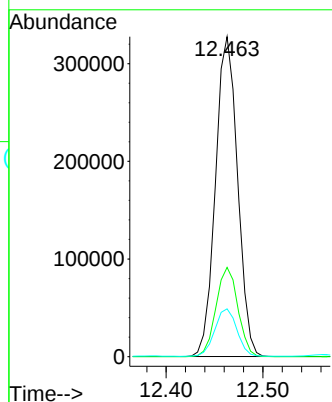
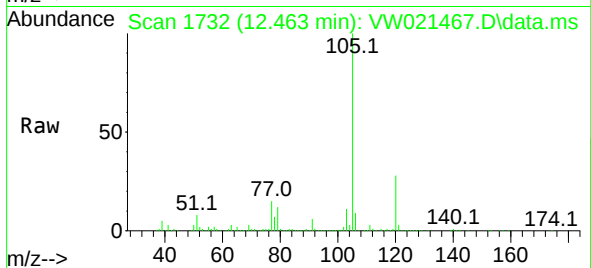
Tgt Ion:105 Resp: 518826

Ion Ratio Lower Upper

105 100

120 27.7 20.1 30.1

77 14.9 13.8 20.8



#61

1,2,3-Trichloropropane

Concen: 4.145 ug/L

RT: 12.798 min Scan# 1787

Delta R.T. 0.031 min

Lab File: VW021467.D

Acq: 18 Dec 2021 11:29

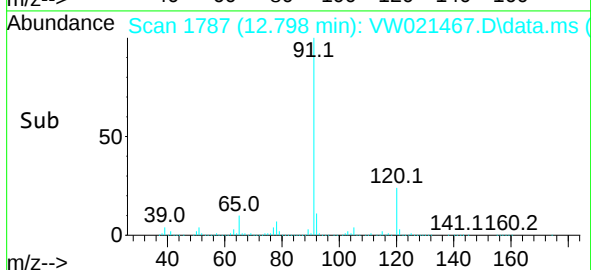
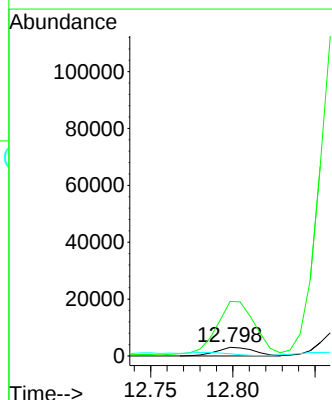
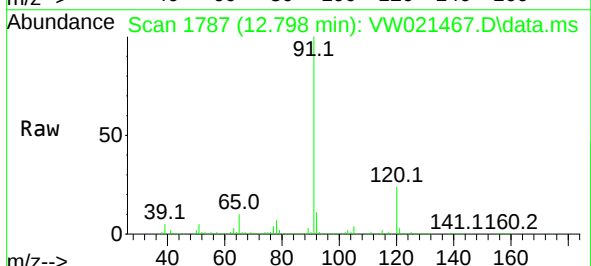
Tgt Ion: 75 Resp: 4868

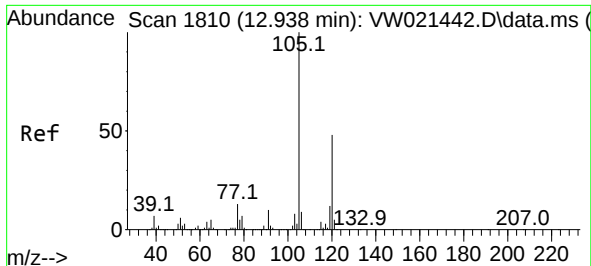
Ion Ratio Lower Upper

75 100

77 625.1 25.8 38.8#

110 38.4 29.0 43.4





#62

1,3,5-Trimethylbenzene

Concen: 124.460 ug/L

RT: 12.945 min Scan# 1811

Delta R.T. 0.006 min

Lab File: VW021467.D

Acq: 18 Dec 2021 11:29

Instrument :

MSVOA_W

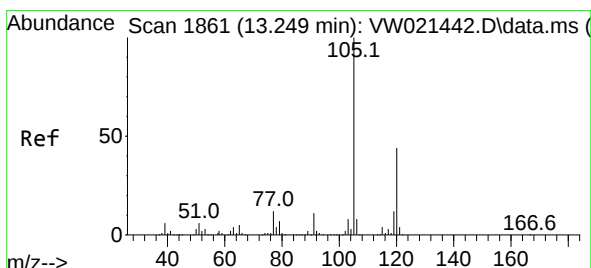
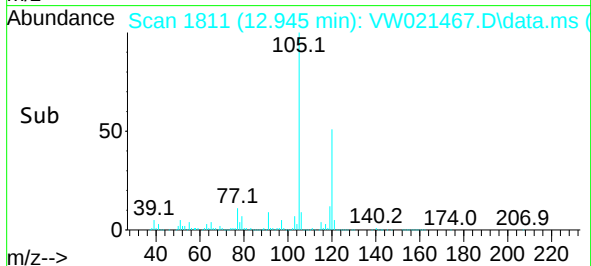
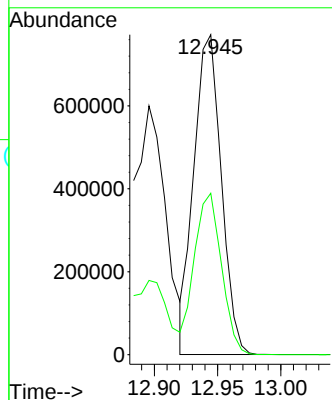
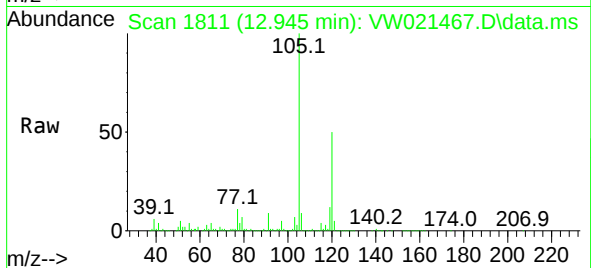
ClientSampleId :

Tgt Ion:105 Resp: 1161245

Ion Ratio Lower Upper

105 100

120 50.2 37.4 56.2



#63

1,2,4-Trimethylbenzene

Concen: 425.008 ug/L

RT: 13.249 min Scan# 1861

Delta R.T. 0.000 min

Lab File: VW021467.D

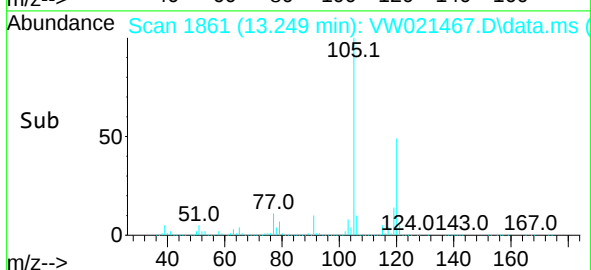
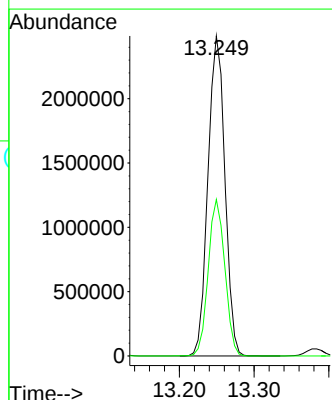
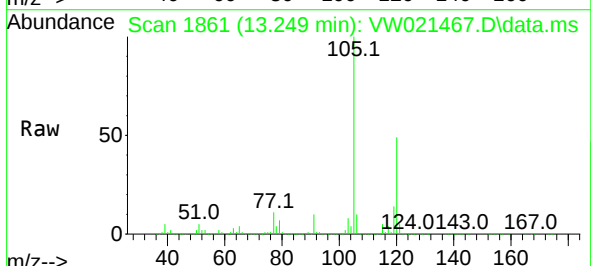
Acq: 18 Dec 2021 11:29

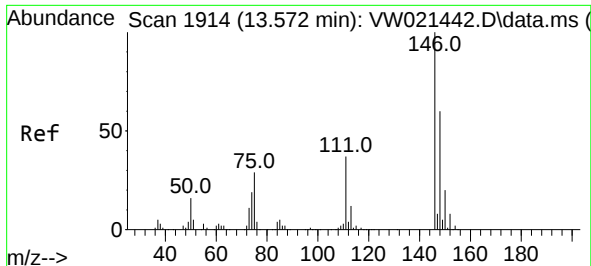
Tgt Ion:105 Resp: 3911800

Ion Ratio Lower Upper

105 100

120 47.9 35.0 52.6

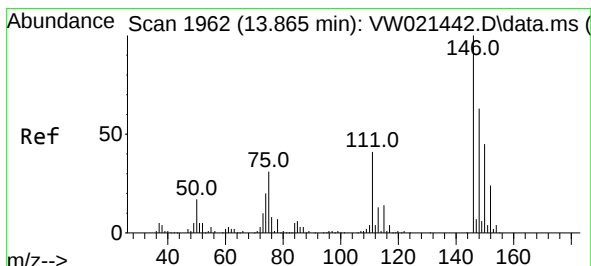
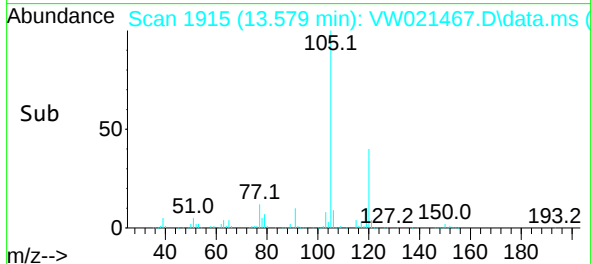
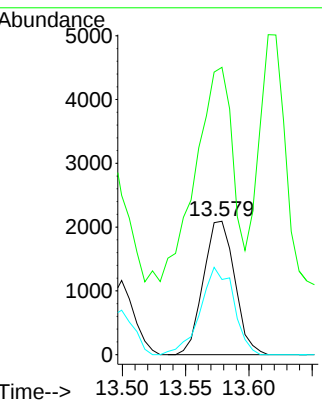
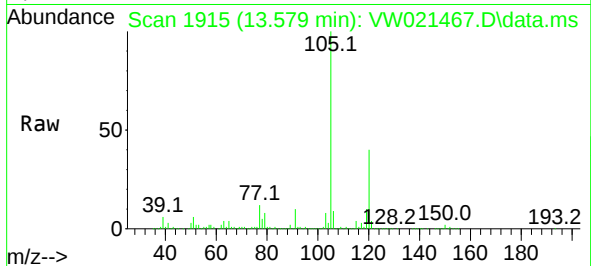




#65
1,4-Dichlorobenzene
Concen: 0.702 ug/L
RT: 13.579 min Scan# 1914
Delta R.T. 0.006 min
Lab File: VW021467.D
Acq: 18 Dec 2021 11:29

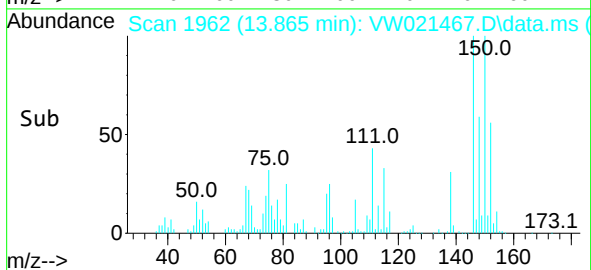
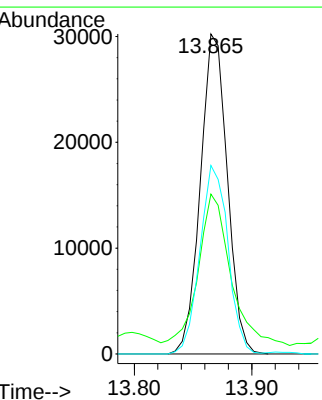
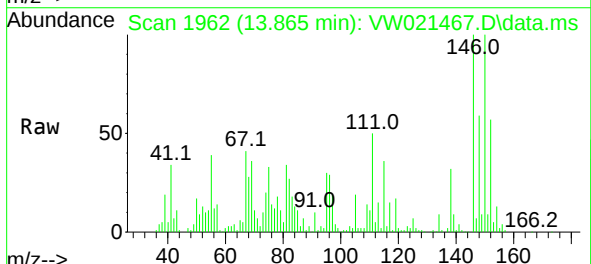
Instrument :
MSVOA_W
ClientSampleId :

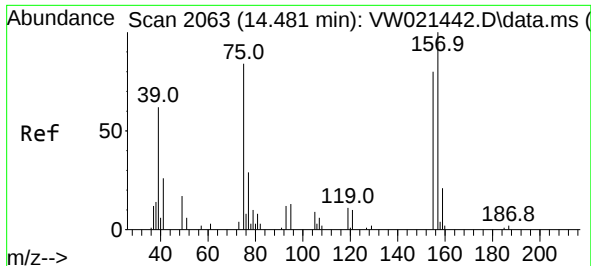
Tgt Ion:146 Resp: 3605
Ion Ratio Lower Upper
146 100
111 215.4 29.0 53.9#
148 56.4 46.9 87.1



#67
1,2-Dichlorobenzene
Concen: 10.608 ug/L
RT: 13.865 min Scan# 1962
Delta R.T. 0.000 min
Lab File: VW021467.D
Acq: 18 Dec 2021 11:29

Tgt Ion:146 Resp: 48301
Ion Ratio Lower Upper
146 100
111 49.9 33.1 49.7#
148 58.9 47.4 71.2





#68

1,2-Dibromo-3-chloropropane

Concen: 19.791 ug/L

RT: 14.457 min Scan# 2063

Delta R.T. -0.024 min

Lab File: VW021467.D

Acq: 18 Dec 2021 11:29

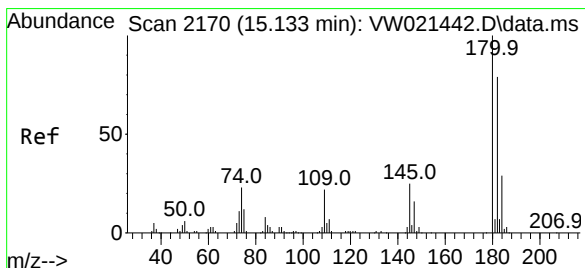
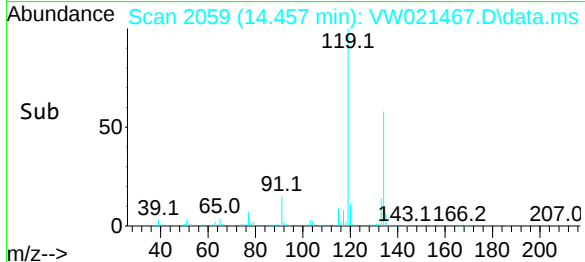
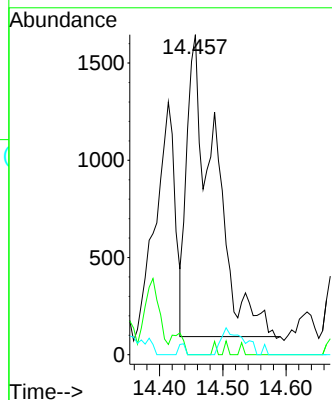
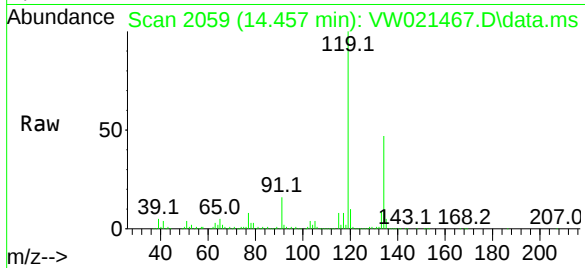
Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 75 Resp: 4794

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: 4.308 ug/L

RT: 15.127 min Scan# 2169

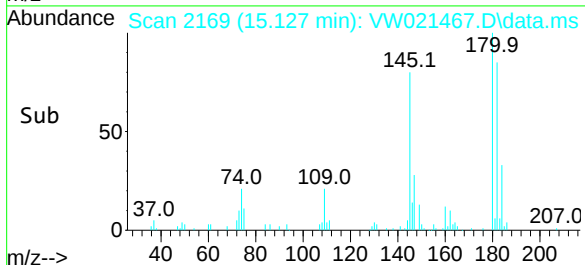
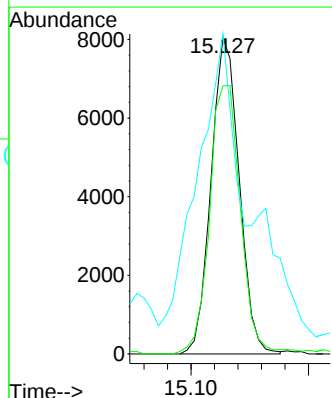
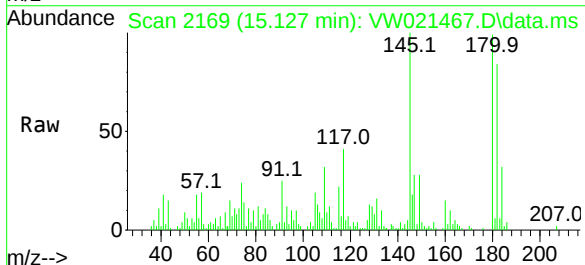
Delta R.T. -0.006 min

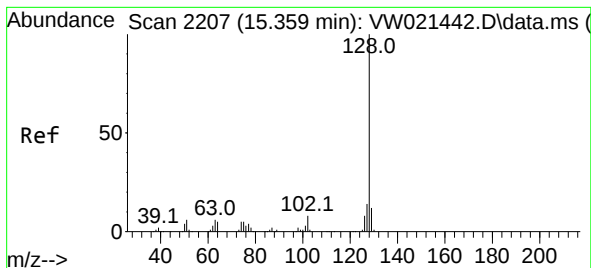
Lab File: VW021467.D

Acq: 18 Dec 2021 11:29

Tgt Ion:180 Resp: 13395

Ion	Ratio	Lower	Upper
180	100		
182	92.1	79.0	118.6
145	130.0	26.0	39.0#





#71

Naphthalene

Concen: 948.069 ug/L

RT: 15.365 min Scan# 2207

Delta R.T. 0.006 min

Lab File: VW021467.D

Acq: 18 Dec 2021 11:29

Instrument :

MSVOA_W

ClientSampleId :

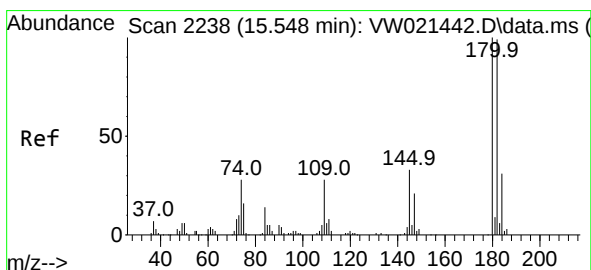
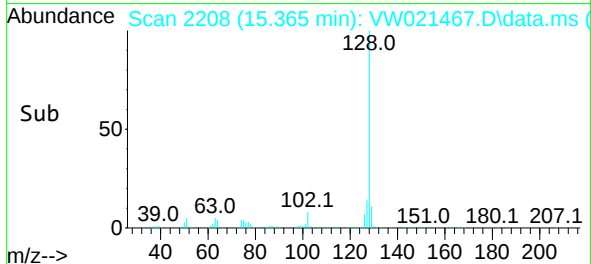
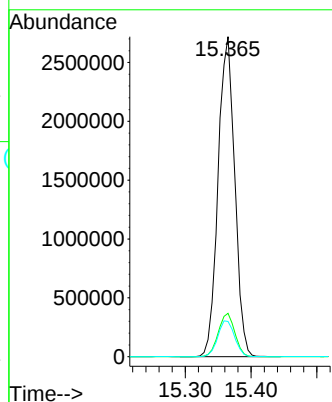
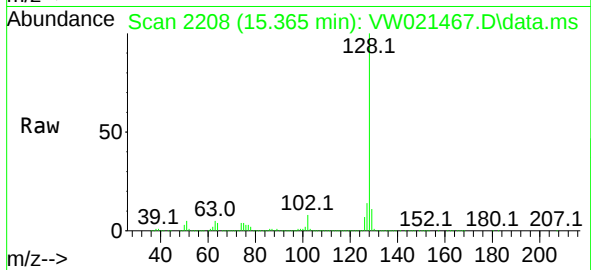
Tgt Ion:128 Resp: 4788893

Ion Ratio Lower Upper

128 100

127 13.5 10.7 16.1

129 11.4 8.6 12.8



#72

1,2,3-Trichlorobenzene

Concen: 2.007 ug/L

RT: 15.554 min Scan# 2239

Delta R.T. 0.006 min

Lab File: VW021467.D

Acq: 18 Dec 2021 11:29

Tgt Ion:180 Resp: 5158

Ion Ratio Lower Upper

180 100

182 95.5 76.6 114.8

145 134.5 27.4 41.0#

