

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
 Data File : VW021468.D
 Acq On : 18 Dec 2021 11:53
 Operator : SY/VA
 Sample : M5154-09
 Misc : 7.06g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BGL89

Quant Time: Dec 18 23:11:09 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	62679	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.634	117	59624	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.554	152	28169	25.000	ug/L	# 0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.349	65	14058	12.315	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	49.240%
7) Chloroethane-d5	2.879	69	9632	12.764	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	51.040%
11) 1,1-Dichloroethene-d2	4.013	63	20830	13.687	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	54.760%
21) 2-Butanone-d5	7.080	46	20172	125.360	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	250.720%#
24) Chloroform-d	7.647	84	40319	23.083	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	92.320%
26) 1,2-Dichloroethane-d4	8.305	65	31711	34.130	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	136.520%#
32) Benzene-d6	8.275	84	74301	22.734	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	90.920%
36) 1,2-Dichloropropane-d6	9.275	67	26176	29.865	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	119.440%
41) Toluene-d8	10.323	98	71161	21.310	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	85.240%
43) trans-1,3-Dichloroprop...	10.579	79	12598	31.216	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	124.880%
47) 2-Hexanone-d5	10.927	63	16660	128.540	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	257.080%#
56) 1,1,2,2-Tetrachloroeth...	12.695	84	26039	34.559	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	138.240%#
66) 1,2-Dichlorobenzene-d4	13.853	152	21031	19.264	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	77.040%
Target Compounds						Qvalue
13) Acetone	4.123	43	16644	115.380	ug/L	99
20) cis-1,2-Dichloroethene	7.165	96	1828	2.060	ug/L	68
29) Cyclohexane	7.933	56	18208	15.343	ug/L	# 80
35) Methylcyclohexane	9.335	83	34892	23.199	ug/L	86
42) Toluene	10.390	91	231254	60.877	ug/L	100
51) Chlorobenzene	11.658	112	14598	5.740	ug/L	91
52) Ethylbenzene	11.731	91	10539844	2427.978	ug/L	85
53) m,p-Xylene	11.841	106	9771155	5579.692	ug/L	70
54) o-Xylene	12.164	106	2313128	1391.807	ug/L	90
60) Isopropylbenzene	12.463	105	805809	210.525	ug/L	95
62) 1,3,5-Trimethylbenzene	12.945	105	1019210	312.919	ug/L	95
63) 1,2,4-Trimethylbenzene	13.249	105	4225962	1315.257	ug/L	93
64) 1,3-Dichlorobenzene	13.499	146	9521	5.274	ug/L	# 69
65) 1,4-Dichlorobenzene	13.579	146	14306	7.976	ug/L	# 67
67) 1,2-Dichlorobenzene	13.865	146	54381	34.213	ug/L	# 90
70) 1,2,4-trichlorobenzene	15.127	180	50362	46.401	ug/L	# 81
72) 1,2,3-Trichlorobenzene	15.554	180	14641	16.323	ug/L	# 56

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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

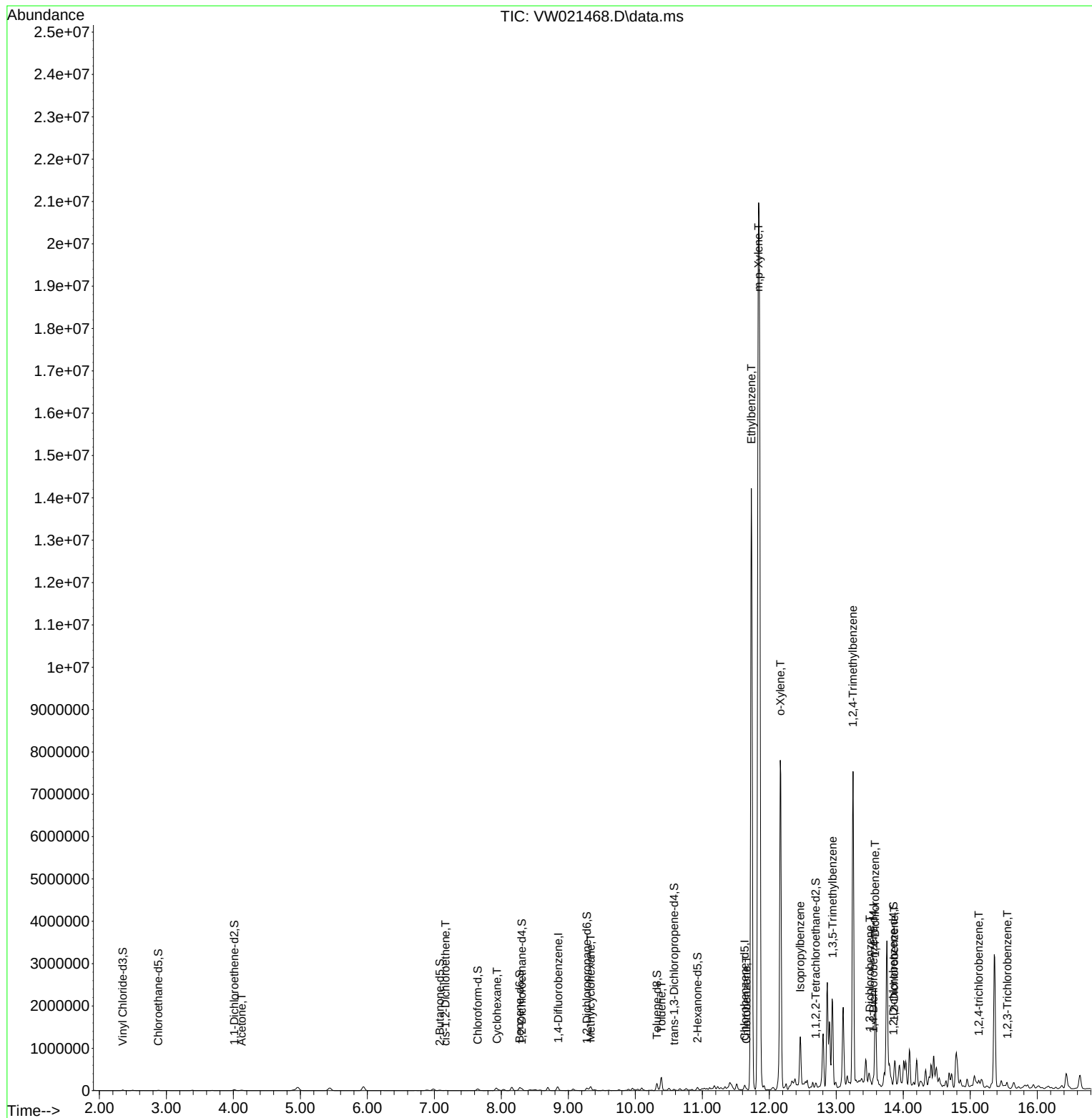
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

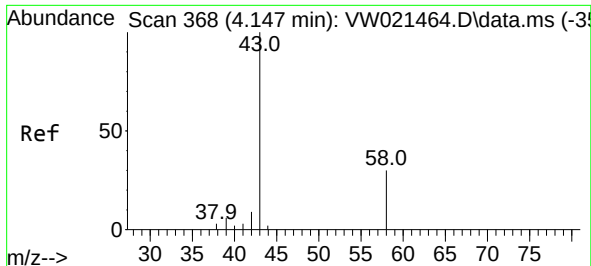
(#)=qualifier out of range (m)=manual integration (+)=signals summed						

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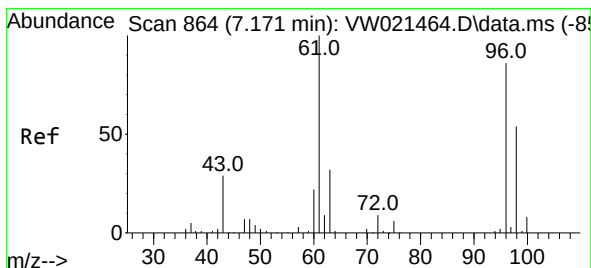
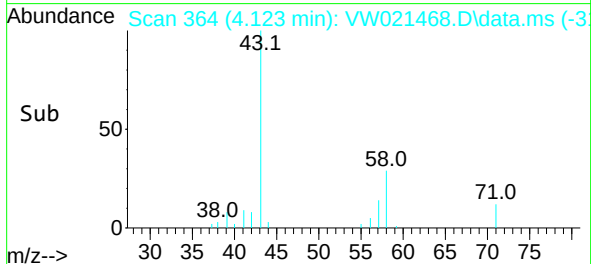
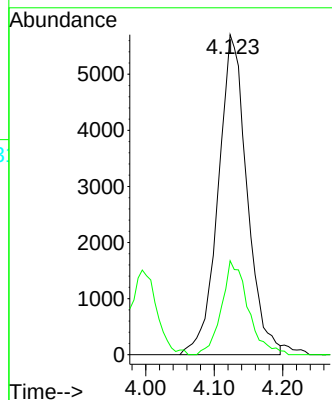
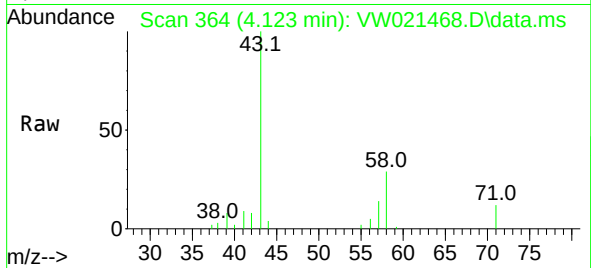




#13
Acetone
Concen: 115.380 ug/L
RT: 4.123 min Scan# 30
Delta R.T. 0.006 min
Lab File: VW021468.D
Acq: 18 Dec 2021 11:53

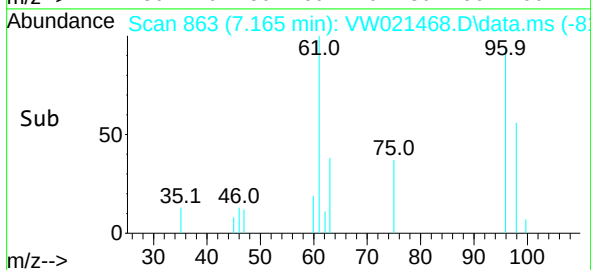
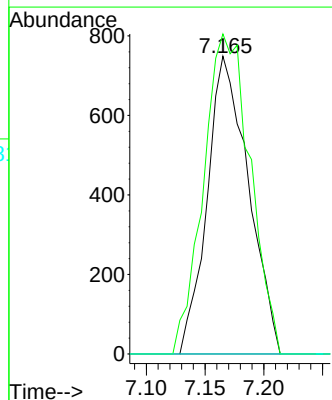
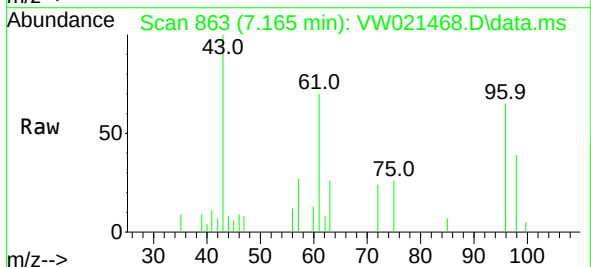
Instrument :
MSVOA_W
ClientSampleId :
BGL89

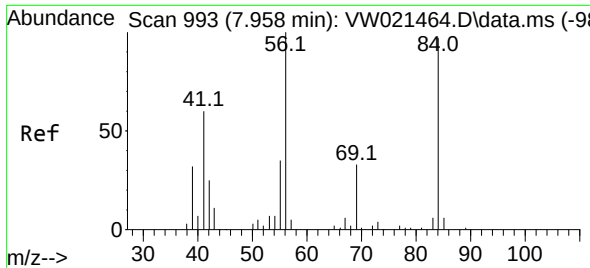
Tgt Ion: 43 Resp: 16644
Ion Ratio Lower Upper
43 100
58 27.0 0.0 52.8



#20
cis-1,2-Dichloroethene
Concen: 2.060 ug/L
RT: 7.165 min Scan# 863
Delta R.T. -0.006 min
Lab File: VW021468.D
Acq: 18 Dec 2021 11:53

Tgt Ion: 96 Resp: 1828
Ion Ratio Lower Upper
96 100
61 107.5 103.7 192.7
68 0.0 0.0 0.0

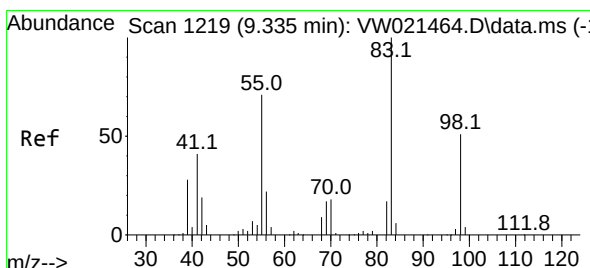
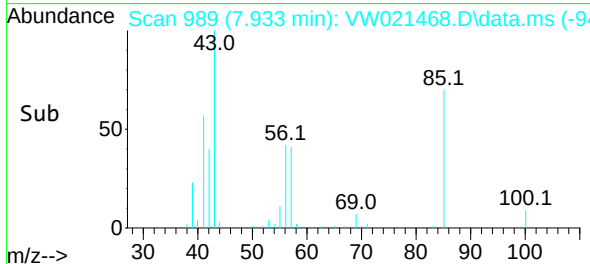
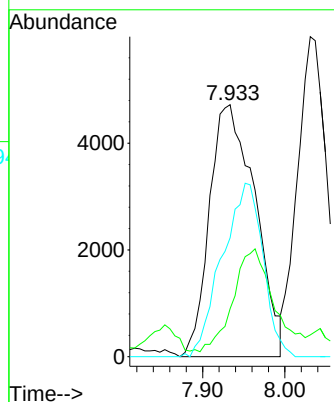
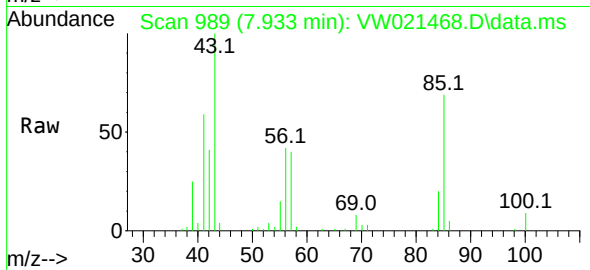




#29
Cyclohexane
Concen: 15.343 ug/L
RT: 7.933 min Scan# 993
Delta R.T. -0.018 min
Lab File: VW021468.D
Acq: 18 Dec 2021 11:53

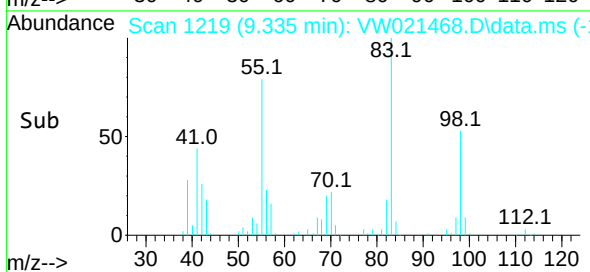
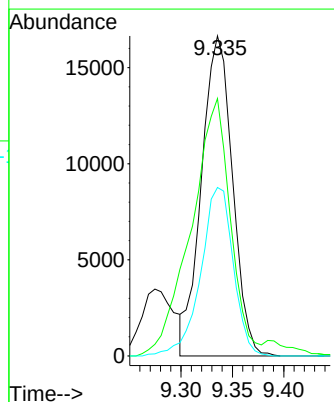
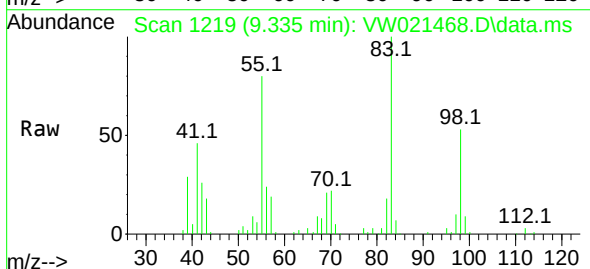
Instrument :
MSVOA_W
ClientSampleId :
BGL89

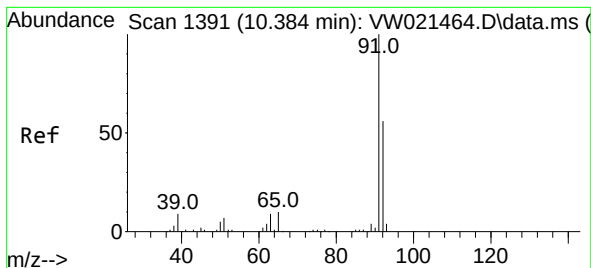
Tgt Ion: 56 Resp: 18208
Ion Ratio Lower Upper
56 100
69 39.8 23.5 35.3#
84 61.3 63.4 95.2#



#35
Methylcyclohexane
Concen: 23.199 ug/L
RT: 9.335 min Scan# 1219
Delta R.T. 0.000 min
Lab File: VW021468.D
Acq: 18 Dec 2021 11:53

Tgt Ion: 83 Resp: 34892
Ion Ratio Lower Upper
83 100
55 101.6 70.8 106.2
98 55.4 37.7 56.5





#42

Toluene

Concen: 60.877 ug/L

RT: 10.390 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW021468.D

Acq: 18 Dec 2021 11:53

Instrument :

MSVOA_W

ClientSampleId :

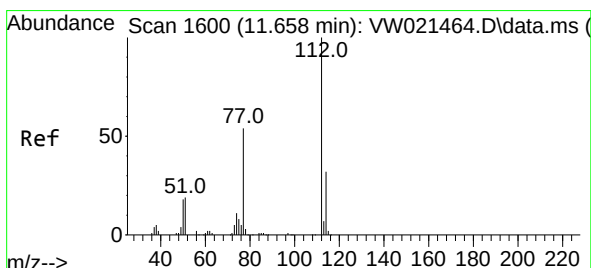
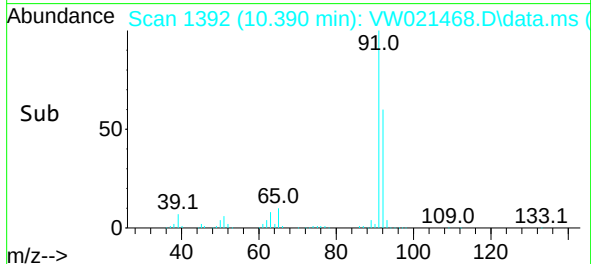
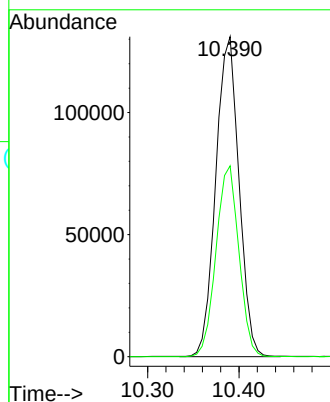
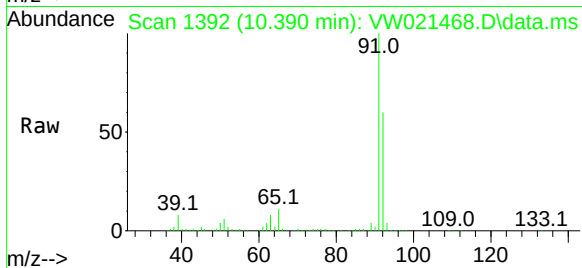
BGL89

Tgt Ion: 91 Resp: 231254

Ion Ratio Lower Upper

91 100

92 59.6 41.7 77.5



#51

Chlorobenzene

Concen: 5.740 ug/L

RT: 11.658 min Scan# 1600

Delta R.T. 0.006 min

Lab File: VW021468.D

Acq: 18 Dec 2021 11:53

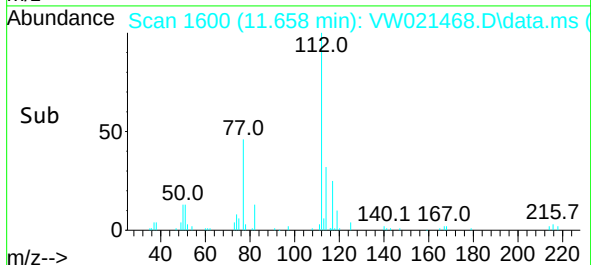
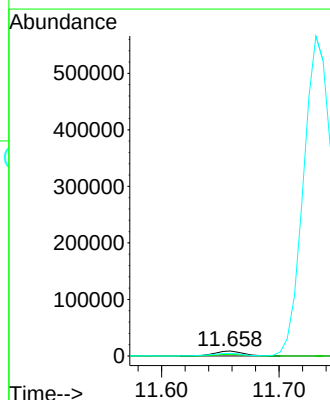
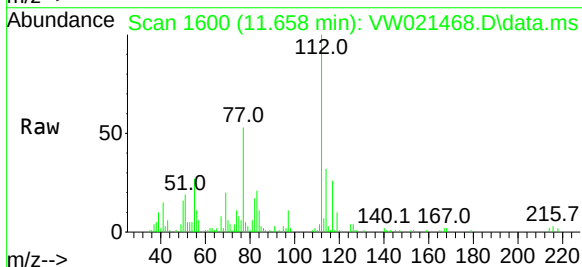
Tgt Ion:112 Resp: 14598

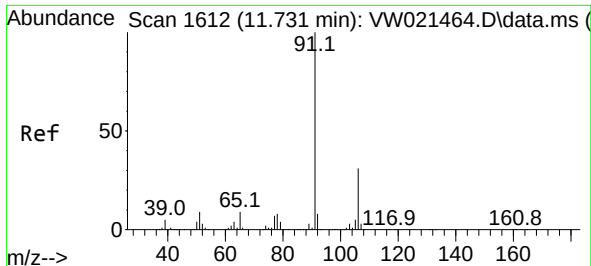
Ion Ratio Lower Upper

112 100

114 32.0 22.4 41.6

77 52.7 50.2 75.4

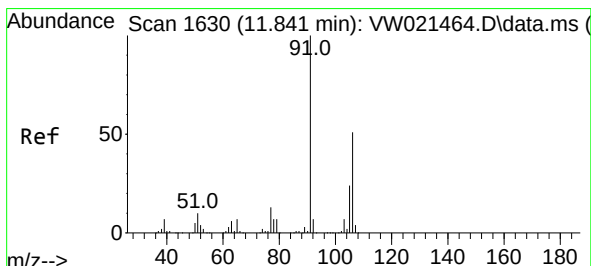
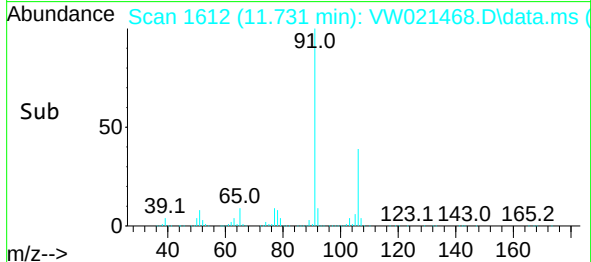
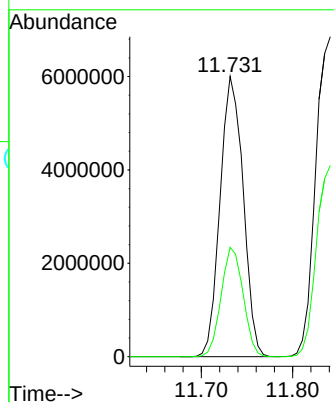
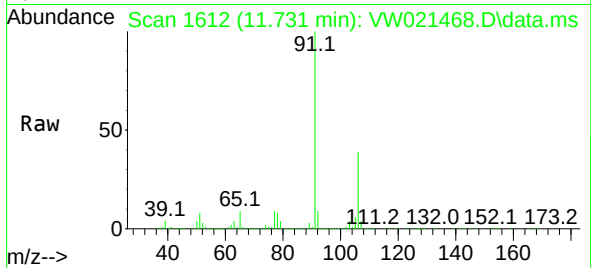




#52
Ethylbenzene
Concen: 2427.978 ug/L
RT: 11.731 min Scan# 1612
Delta R.T. 0.000 min
Lab File: VW021468.D
Acq: 18 Dec 2021 11:53

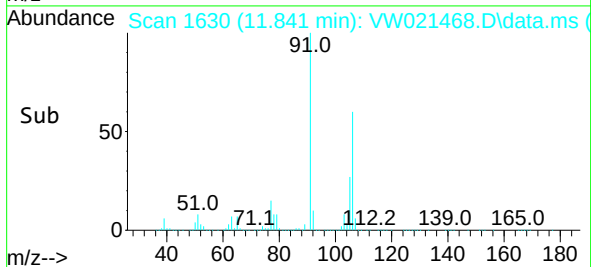
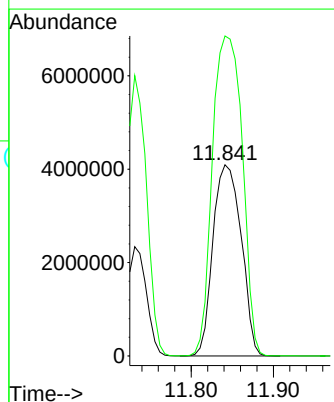
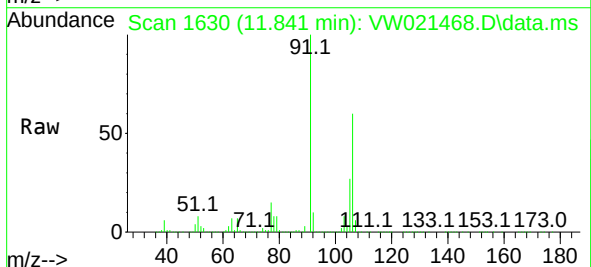
Instrument :
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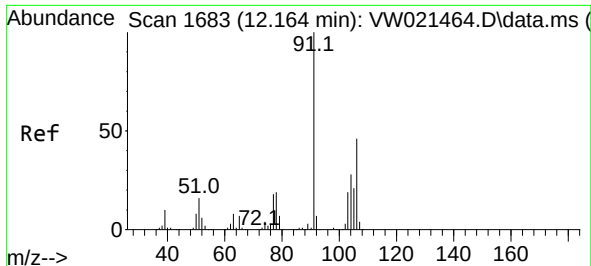
Tgt Ion: 91 Resp:10539844
Ion Ratio Lower Upper
91 100
106 39.0 21.5 39.9



#53
m,p-Xylene
Concen: 5579.692 ug/L
RT: 11.841 min Scan# 1630
Delta R.T. 0.006 min
Lab File: VW021468.D
Acq: 18 Dec 2021 11:53

Tgt Ion:106 Resp: 9771155
Ion Ratio Lower Upper
106 100
91 167.4 149.9 278.3





#54

o-Xylene

Concen: 1391.807 ug/L

RT: 12.164 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW021468.D

Acq: 18 Dec 2021 11:53

Instrument :

MSVOA_W

ClientSampleId :

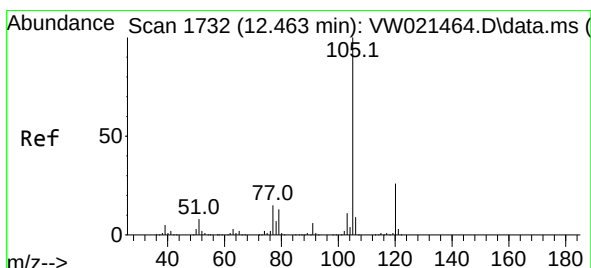
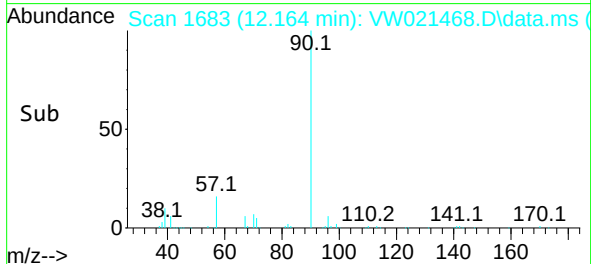
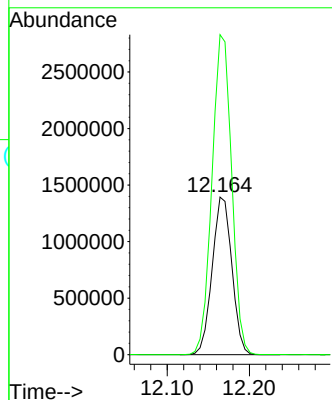
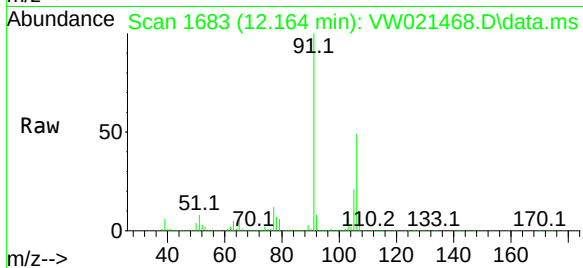
BGL89

Tgt Ion:106 Resp: 2313128

Ion Ratio Lower Upper

106 100

91 203.1 153.6 285.3



#60

Isopropylbenzene

Concen: 210.525 ug/L

RT: 12.463 min Scan# 1732

Delta R.T. 0.000 min

Lab File: VW021468.D

Acq: 18 Dec 2021 11:53

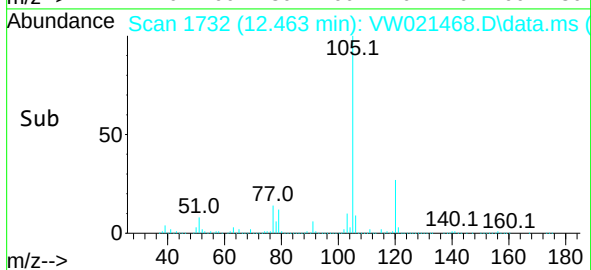
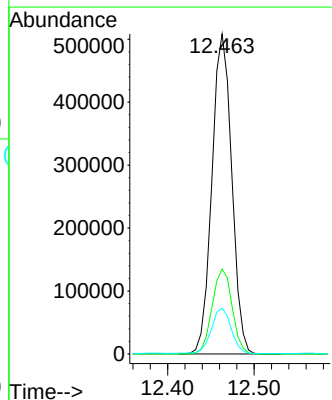
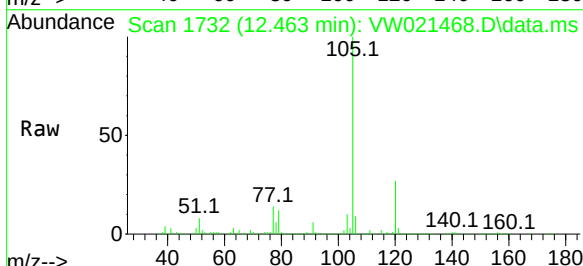
Tgt Ion:105 Resp: 805809

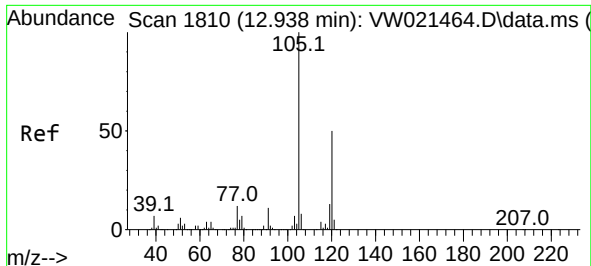
Ion Ratio Lower Upper

105 100

120 26.7 20.1 30.1

77 14.3 13.8 20.8





#62

1,3,5-Trimethylbenzene

Concen: 312.919 ug/L

RT: 12.945 min Scan# 1811

Delta R.T. 0.006 min

Lab File: VW021468.D

Acq: 18 Dec 2021 11:53

Instrument :

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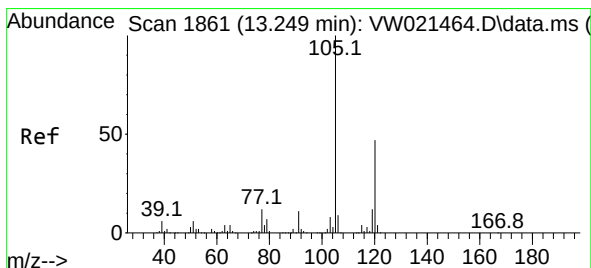
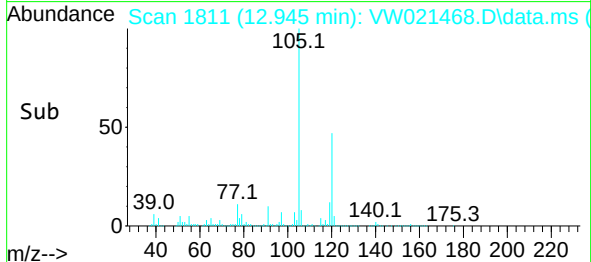
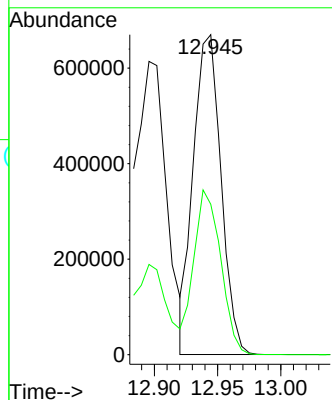
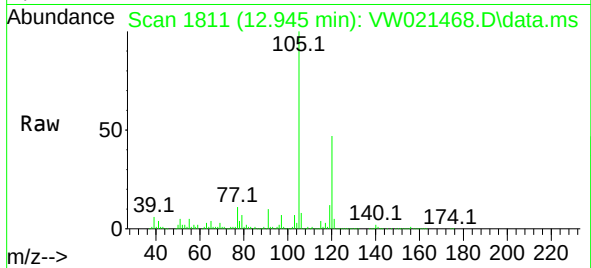
BGL89

Tgt Ion:105 Resp: 1019210

Ion Ratio Lower Upper

105 100

120 50.3 37.4 56.2



#63

1,2,4-Trimethylbenzene

Concen: 1315.257 ug/L

RT: 13.249 min Scan# 1861

Delta R.T. 0.000 min

Lab File: VW021468.D

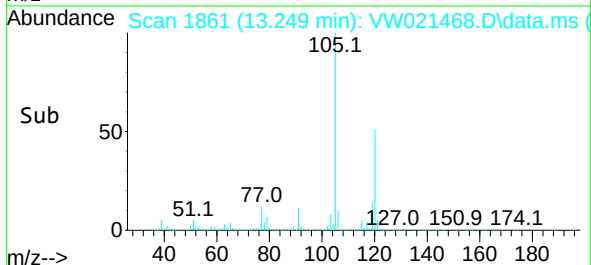
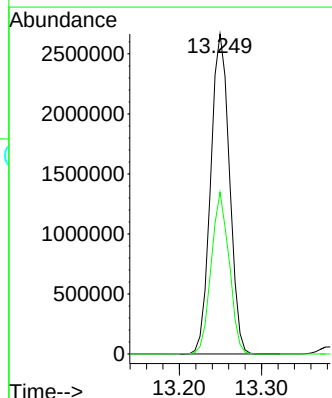
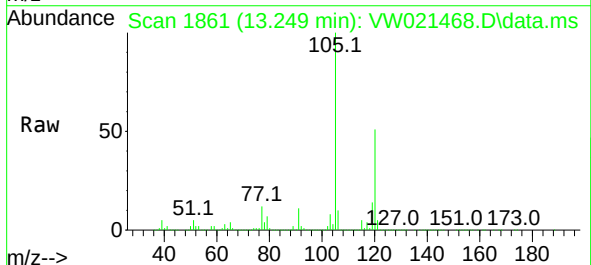
Acq: 18 Dec 2021 11:53

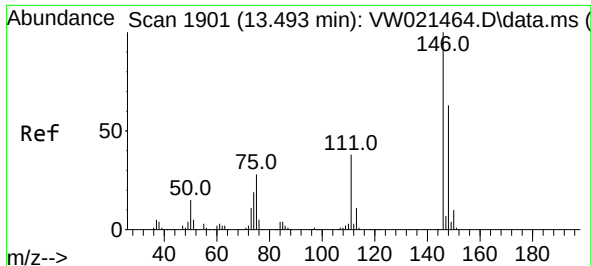
Tgt Ion:105 Resp: 4225962

Ion Ratio Lower Upper

105 100

120 48.1 35.0 52.6

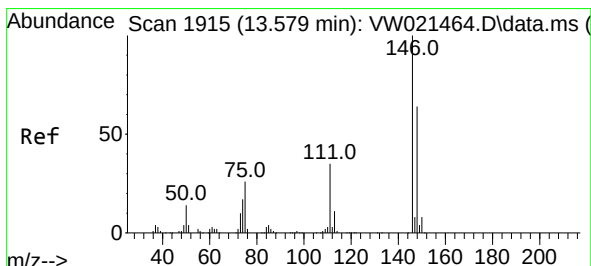
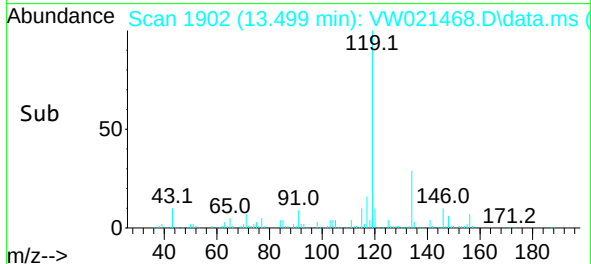
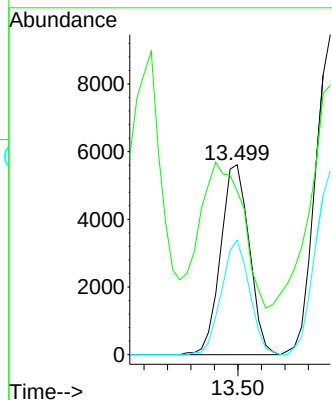
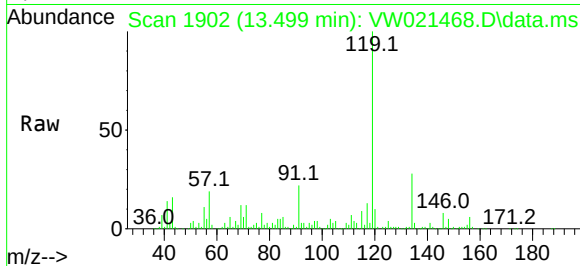




#64
1,3-Dichlorobenzene
Concen: 5.274 ug/L
RT: 13.499 min Scan# 1901
Delta R.T. 0.006 min
Lab File: VW021468.D
Acq: 18 Dec 2021 11:53

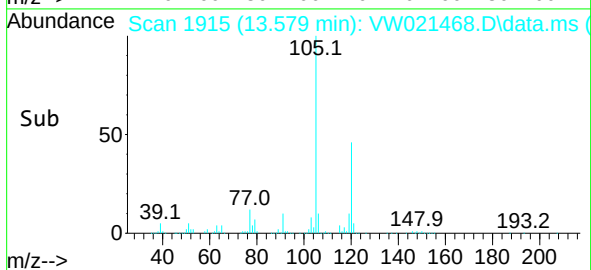
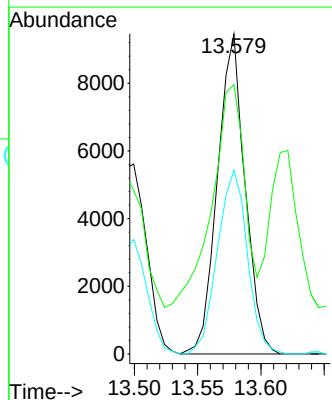
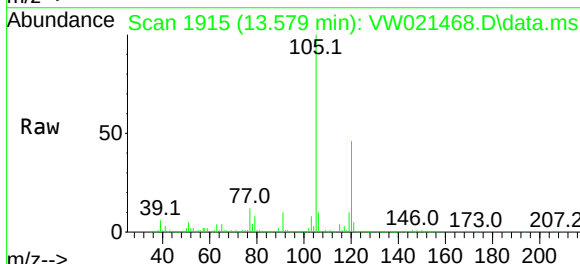
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MSVOA_W
ClientSampleId :
BGL89

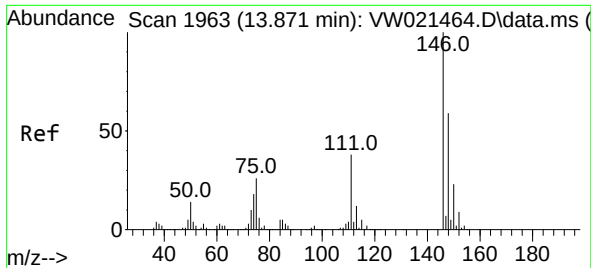
Tgt Ion:146 Resp: 9521
Ion Ratio Lower Upper
146 100
111 86.1 29.8 55.3#
148 60.3 46.2 85.8



#65
1,4-Dichlorobenzene
Concen: 7.976 ug/L
RT: 13.579 min Scan# 1915
Delta R.T. 0.006 min
Lab File: VW021468.D
Acq: 18 Dec 2021 11:53

Tgt Ion:146 Resp: 14306
Ion Ratio Lower Upper
146 100
111 84.2 29.0 53.9#
148 57.4 46.9 87.1





#67

1,2-Dichlorobenzene

Concen: 34.213 ug/L

RT: 13.865 min Scan# 1962

Delta R.T. 0.000 min

Lab File: VW021468.D

Acq: 18 Dec 2021 11:53

Instrument :

MSVOA_W

ClientSampleId :

BGL89

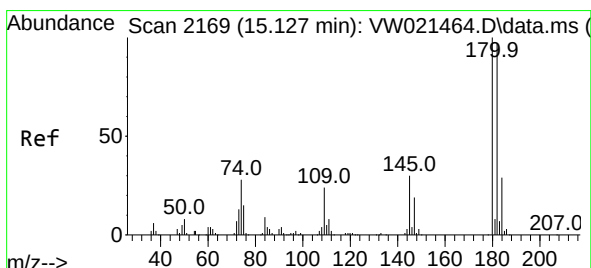
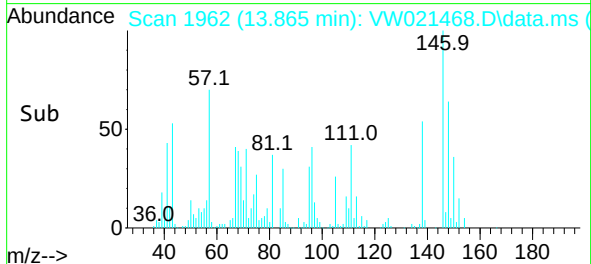
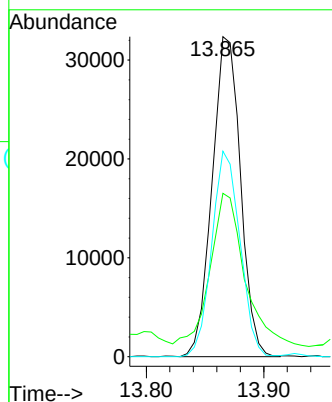
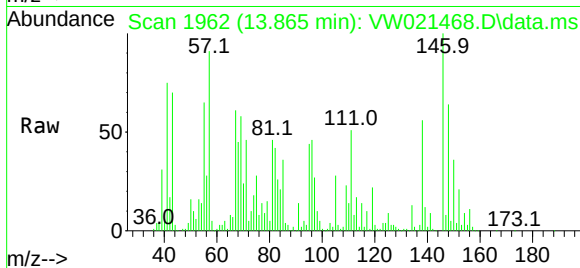
Tgt Ion:146 Resp: 54381

Ion Ratio Lower Upper

146 100

111 51.1 33.1 49.7#

148 64.2 47.4 71.2



#70

1,2,4-trichlorobenzene

Concen: 46.401 ug/L

RT: 15.127 min Scan# 2169

Delta R.T. -0.006 min

Lab File: VW021468.D

Acq: 18 Dec 2021 11:53

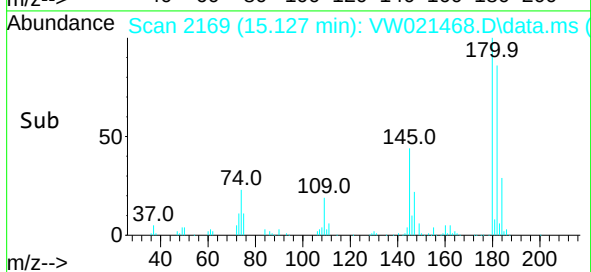
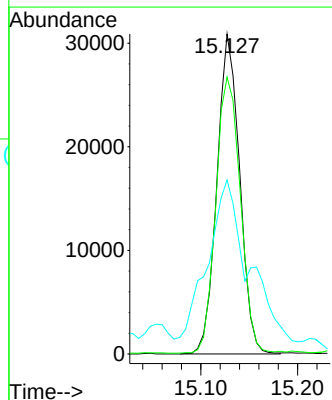
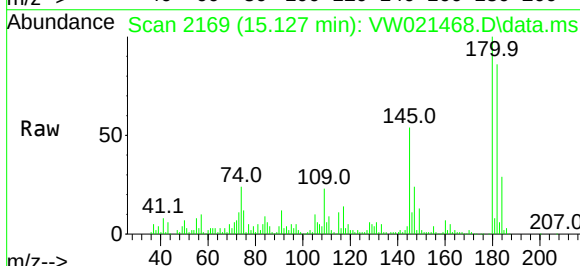
Tgt Ion:180 Resp: 50362

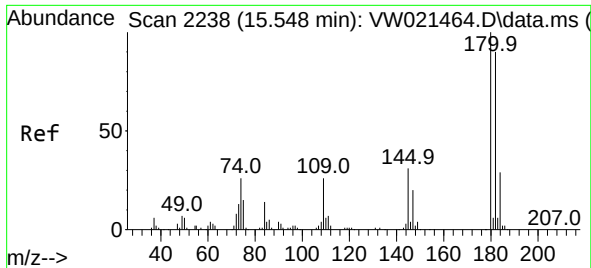
Ion Ratio Lower Upper

180 100

182 93.4 79.0 118.6

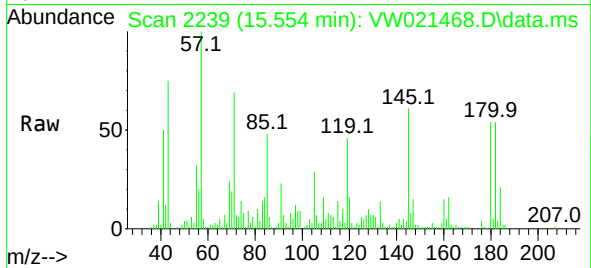
145 66.8 26.0 39.0#





#72
 1,2,3-Trichlorobenzene
 Concen: 16.323 ug/L
 RT: 15.554 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VW021468.D
 Acq: 18 Dec 2021 11:53

Instrument :
 MSVOA_W
 ClientSampleId :
 BGL89



Tgt Ion	Ratio	Lower	Upper
180	100		
182	88.5	76.6	114.8
145	117.7	27.4	41.0

