

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 :

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						
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
22) 2-Butanone	7.165	43	1584	8.408	ug/L	# 26
27) 1,2-Dichloroethane	8.403	62	553	0.570	ug/L	# 77
29) Cyclohexane	7.933	56	18208	15.343	ug/L	# 80
35) Methylcyclohexane	9.335	83	34892	23.199	ug/L	86
37) 1,2-Dichloropropane	9.335	63	379	0.523	ug/L	# 1
39) cis-1,3-Dichloropropene	10.030	75	956	0.837	ug/L	# 48
40) 4-Methyl-2-pentanone	10.219	43	1700	4.306	ug/L	# 85
42) Toluene	10.390	91	231254	60.877	ug/L	100
45) 1,1,2-Trichloroethane	10.762	97	18024	30.395	ug/L	# 21
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
55) Styrene	12.164	104	114623	40.524	ug/L	# 1
57) 1,1,2,2-Tetrachloroethane	12.743	83	685	1.008	ug/L	# 95
60) Isopropylbenzene	12.463	105	805809	210.525	ug/L	95
61) 1,2,3-Trichloropropane	12.804	75	6341	15.467	ug/L	# 1

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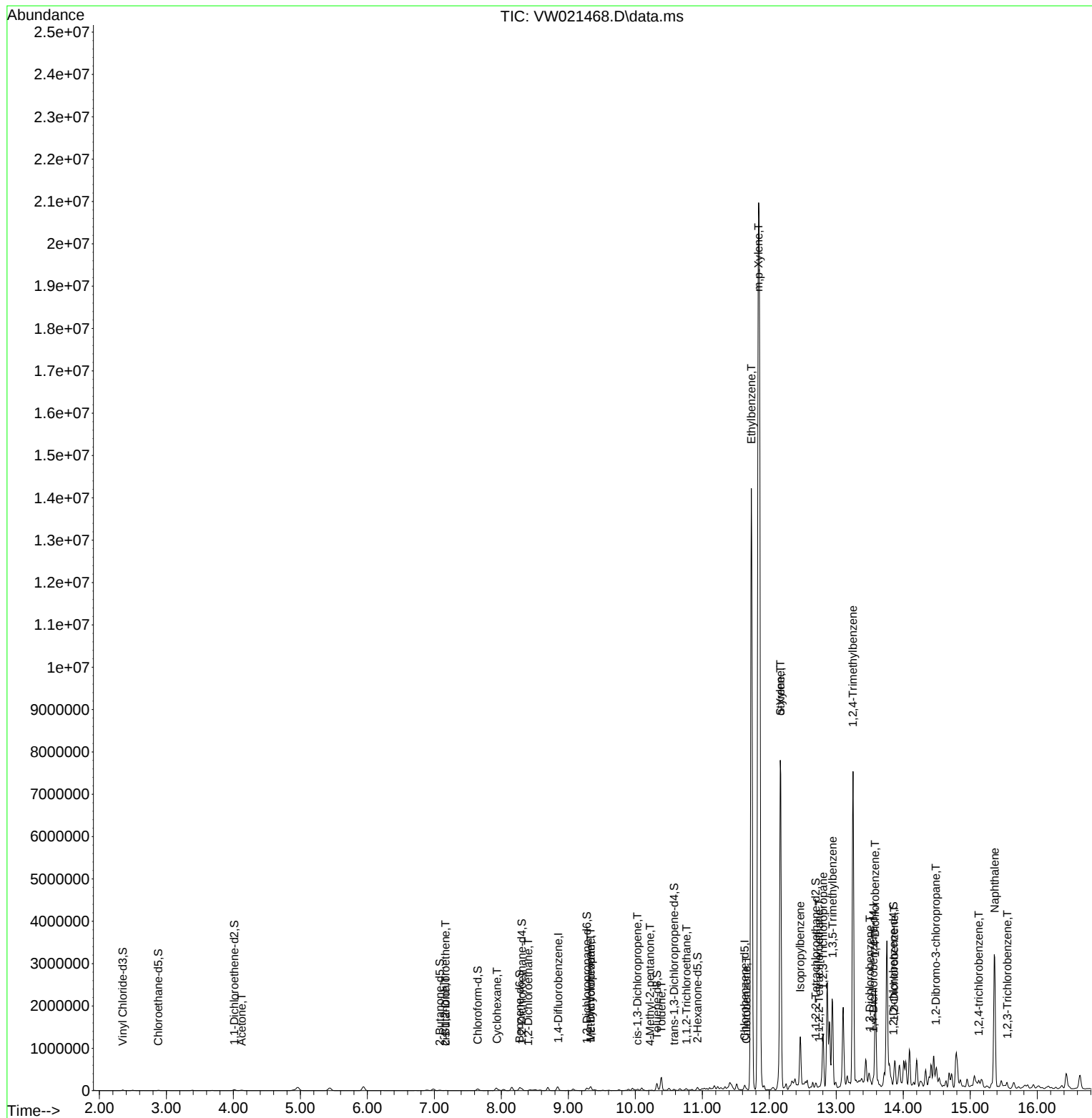
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3,5-Trimethylbenzene	12.945	105	1019210	312.919	ug/L	95
63) 1,2,4-Trimethylbenzene	13.249	105	4225962	1315.257	ug/L	93
64) 1,3-Dichlorobenzene	13.499	146	9521	5.274	ug/L #	69
65) 1,4-Dichlorobenzene	13.579	146	14306	7.976	ug/L #	67
67) 1,2-Dichlorobenzene	13.865	146	54381	34.213	ug/L #	90
68) 1,2-Dibromo-3-chloropr...	14.487	75	11867	140.335	ug/L #	15
70) 1,2,4-trichlorobenzene	15.127	180	50362	46.401	ug/L #	81
71) Naphthalene	15.365	128	2924604	1658.580	ug/L	99
72) 1,2,3-Trichlorobenzene	15.554	180	14641	16.323	ug/L #	56

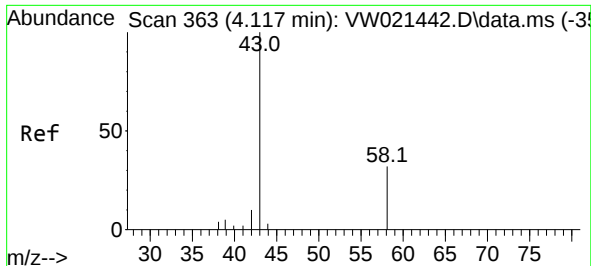
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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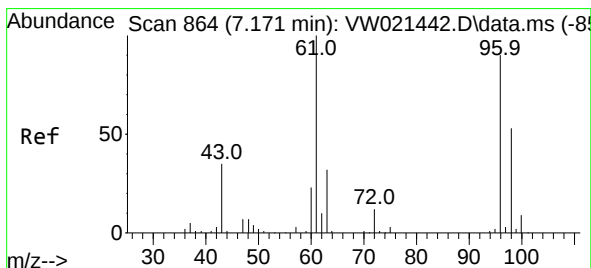
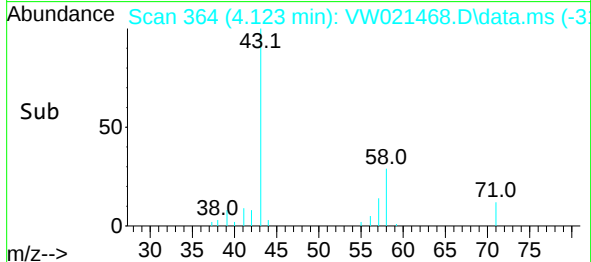
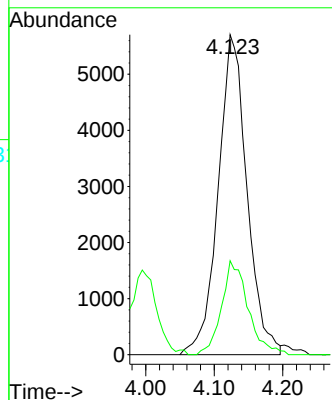
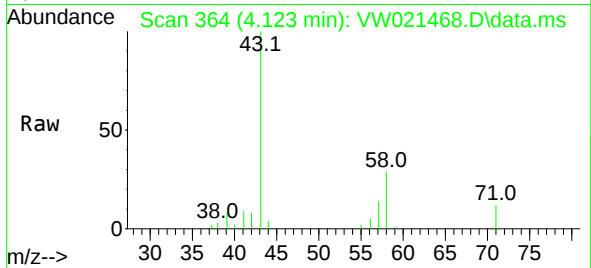




#13
Acetone
Concen: 115.380 ug/L
RT: 4.123 min Scan# 364
Delta R.T. 0.006 min
Lab File: VW021468.D
Acq: 18 Dec 2021 11:53

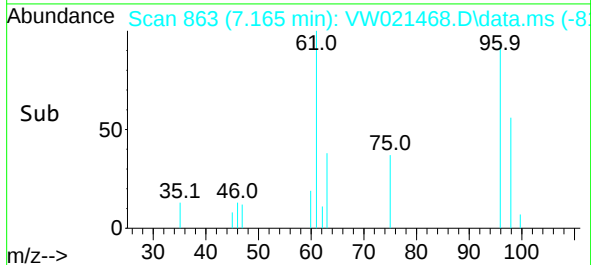
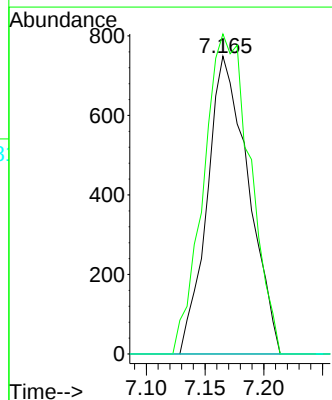
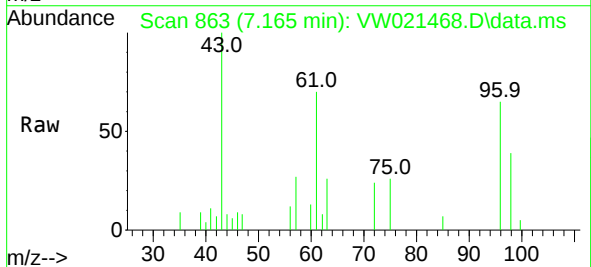
Instrument :
MSVOA_W
ClientSampleId :

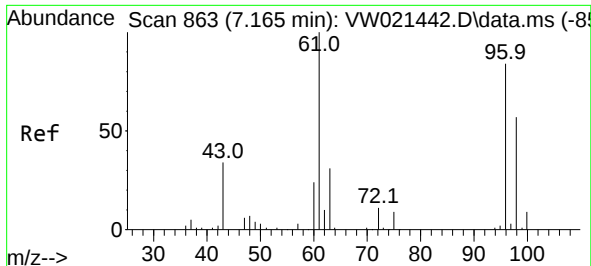
Tgt Ion: 43 Resp: 16644
Ion Ratio Lower Upper
43 100
58 27.0 0.0 52.8



#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

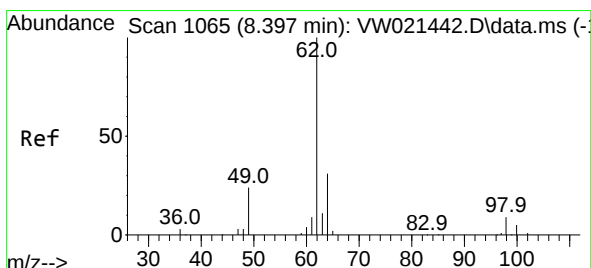
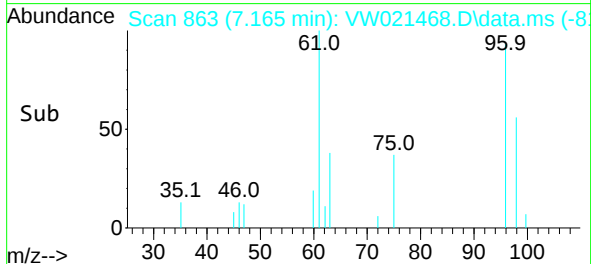
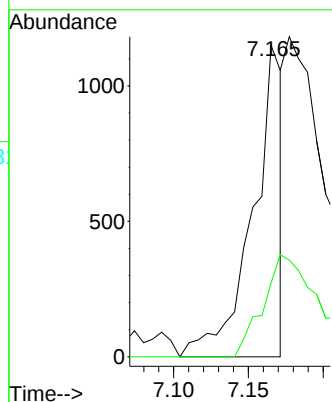
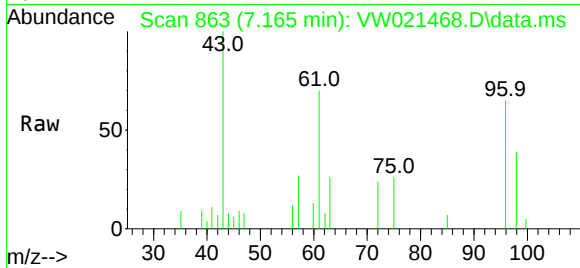




#22
2-Butanone
Concen: 8.408 ug/L
RT: 7.165 min Scan# 863
Delta R.T. 0.000 min
Lab File: VW021468.D
Acq: 18 Dec 2021 11:53

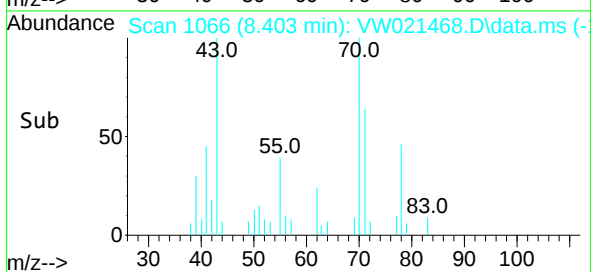
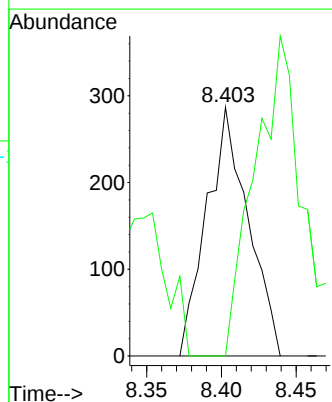
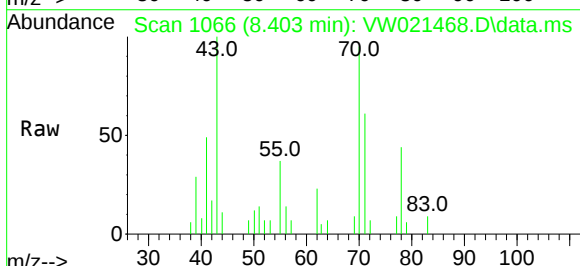
Instrument :
MSVOA_W
ClientSampleId :

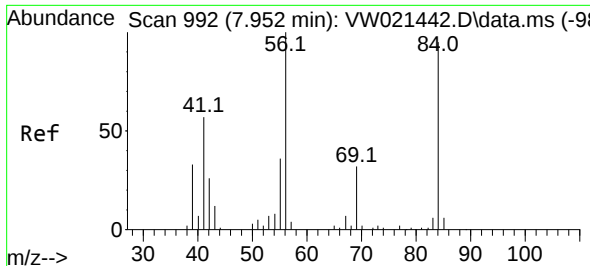
Tgt Ion: 43 Resp: 1584
Ion Ratio Lower Upper
43 100
72 60.0 11.8 35.4#



#27
1,2-Dichloroethane
Concen: 0.570 ug/L
RT: 8.403 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VW021468.D
Acq: 18 Dec 2021 11:53

Tgt Ion: 62 Resp: 553
Ion Ratio Lower Upper
62 100
98 0.0 6.5 9.7#





#29

Cyclohexane

Concen: 15.343 ug/L

RT: 7.933 min Scan# 91

Delta R.T. -0.018 min

Lab File: VW021468.D

Acq: 18 Dec 2021 11:53

Instrument :

MSVOA_W

ClientSampleId :

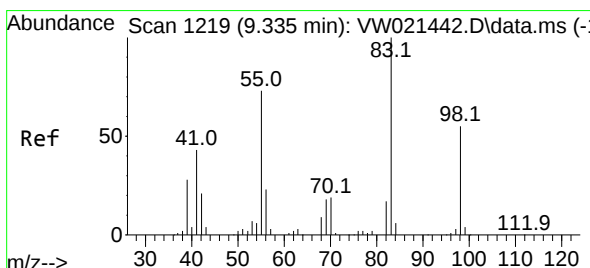
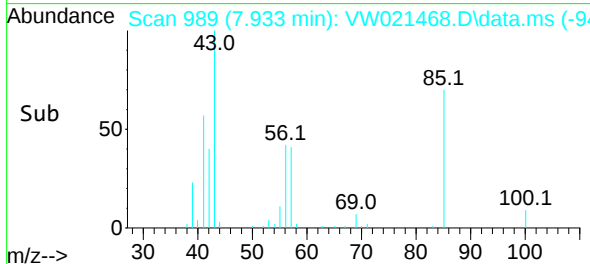
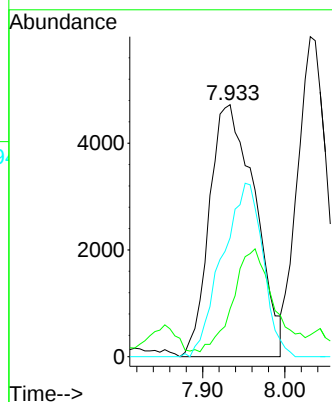
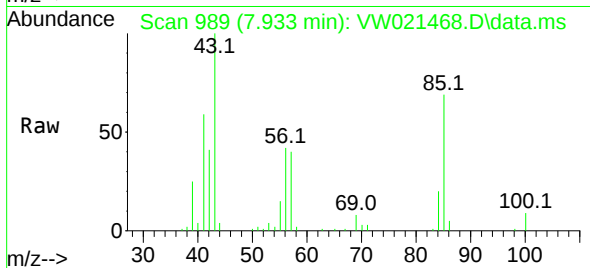
Tgt Ion: 56 Resp: 18208

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

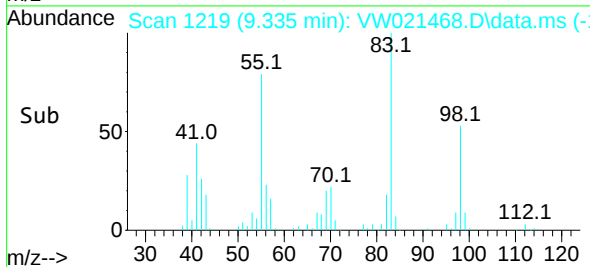
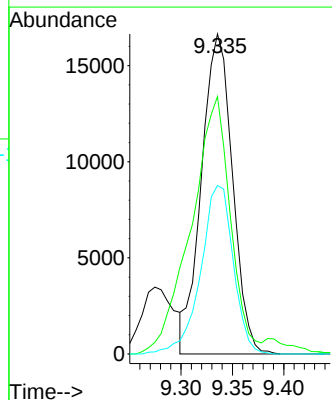
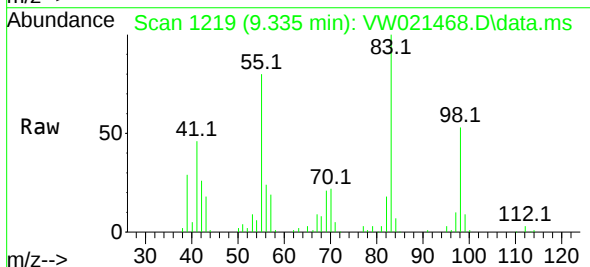
Tgt Ion: 83 Resp: 34892

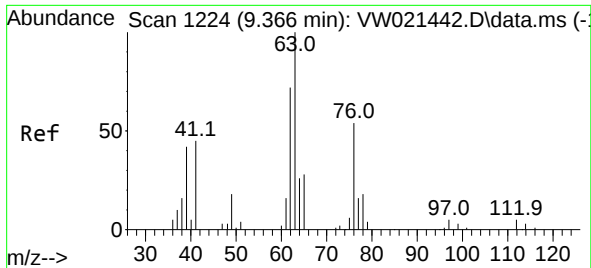
Ion Ratio Lower Upper

83 100

55 101.6 70.8 106.2

98 55.4 37.7 56.5

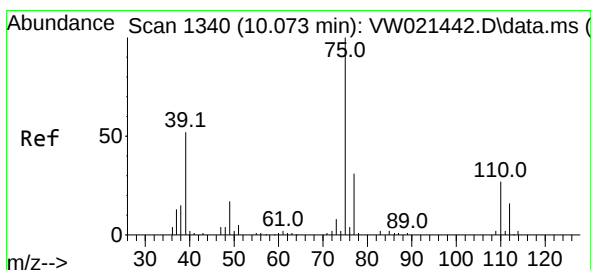
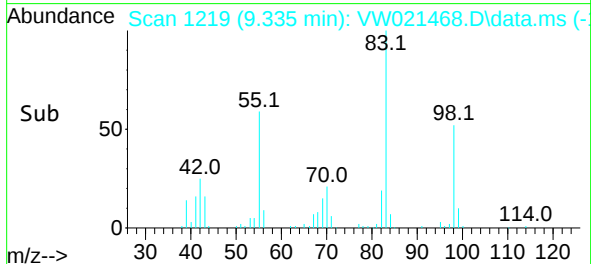
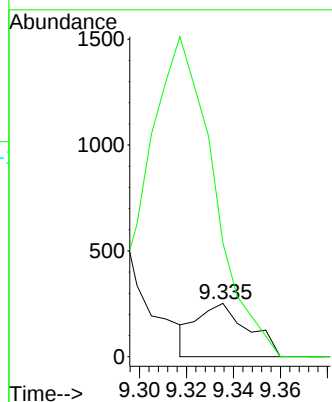
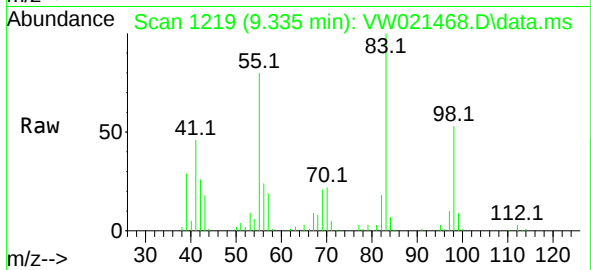




#37
1,2-Dichloropropane
Concen: 0.523 ug/L
RT: 9.335 min Scan# 11
Delta R.T. -0.030 min
Lab File: VW021468.D
Acq: 18 Dec 2021 11:53

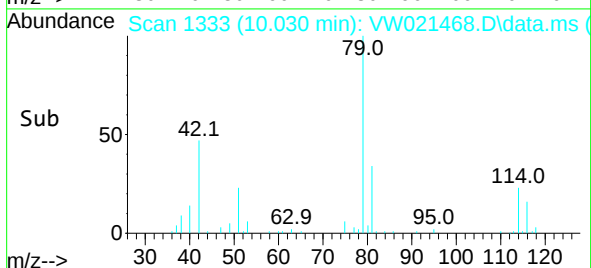
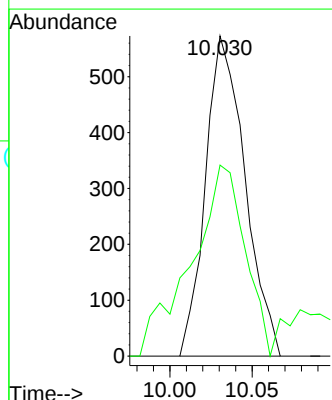
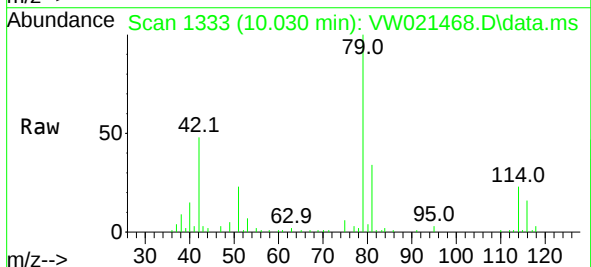
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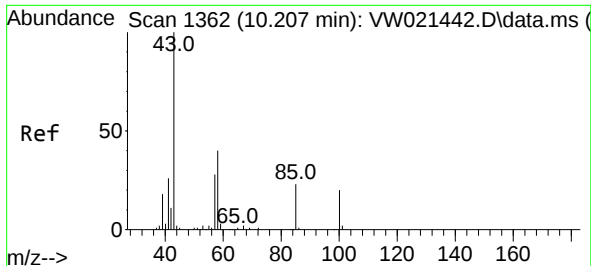
Tgt Ion: 63 Resp: 379
Ion Ratio Lower Upper
63 100
112 823.0 3.2 4.8#



#39
cis-1,3-Dichloropropene
Concen: 0.837 ug/L
RT: 10.030 min Scan# 1333
Delta R.T. -0.043 min
Lab File: VW021468.D
Acq: 18 Dec 2021 11:53

Tgt Ion: 75 Resp: 956
Ion Ratio Lower Upper
75 100
77 59.7 21.8 40.6#





#40

4-Methyl-2-pentanone

Concen: 4.306 ug/L

RT: 10.219 min Scan# 1364

Delta R.T. 0.012 min

Lab File: VW021468.D

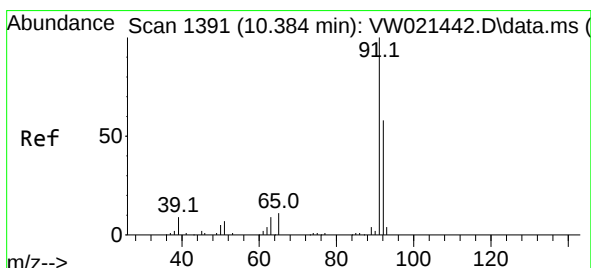
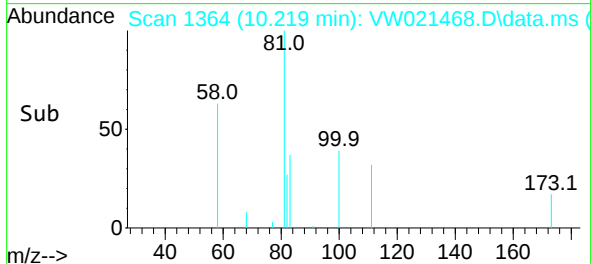
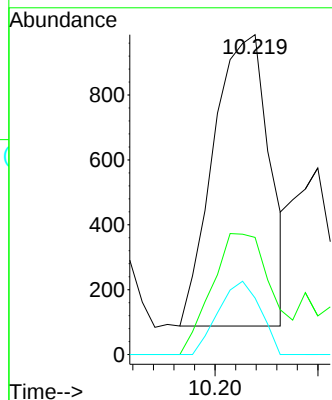
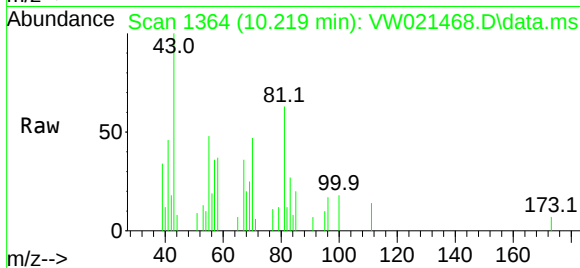
Acq: 18 Dec 2021 11:53

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 43 Resp: 1700
 Ion Ratio Lower Upper
 43 100
 58 44.3 28.8 43.2#
 100 18.9 10.0 15.0#



#42

Toluene

Concen: 60.877 ug/L

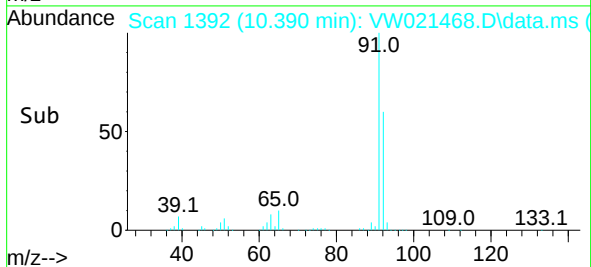
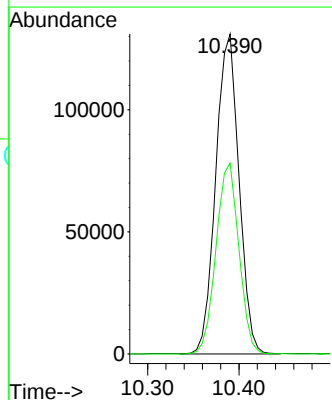
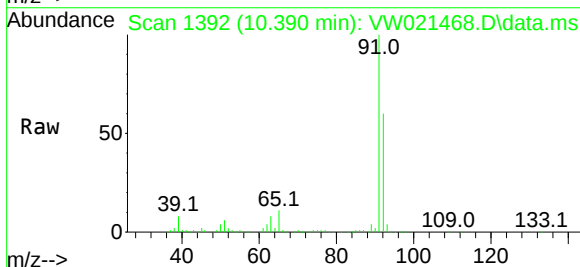
RT: 10.390 min Scan# 1392

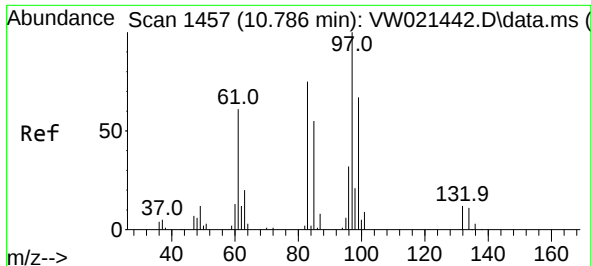
Delta R.T. 0.006 min

Lab File: VW021468.D

Acq: 18 Dec 2021 11:53

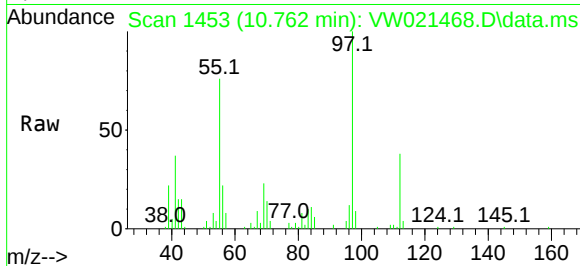
Tgt Ion: 91 Resp: 231254
 Ion Ratio Lower Upper
 91 100
 92 59.6 41.7 77.5



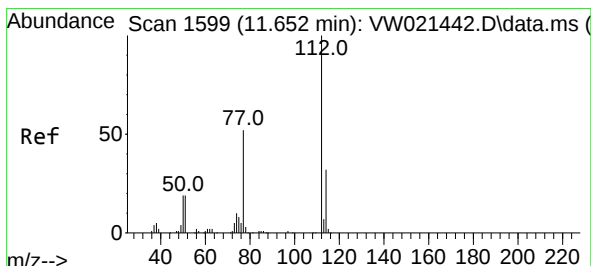
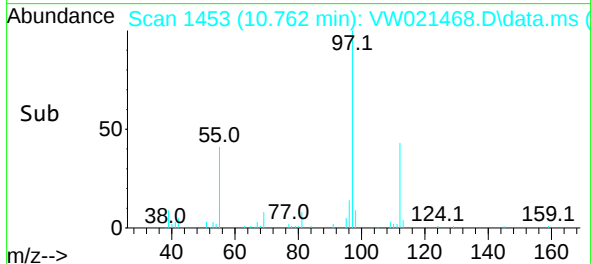
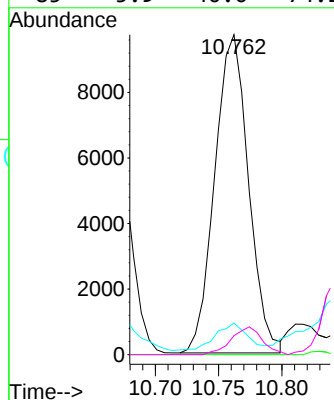


#45
1,1,2-Trichloroethane
Concen: 30.395 ug/L
RT: 10.762 min Scan# 1453
Delta R.T. -0.024 min
Lab File: VW021468.D
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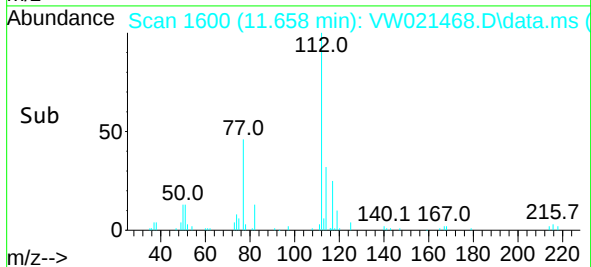
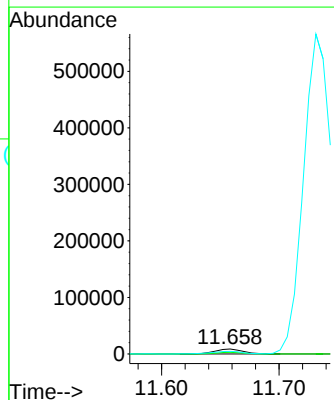
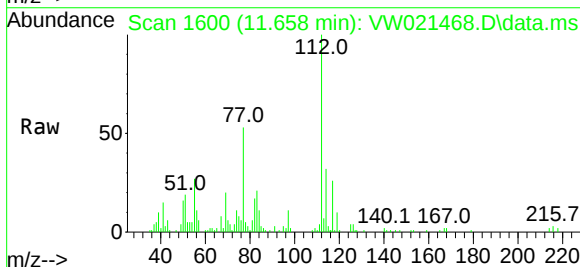


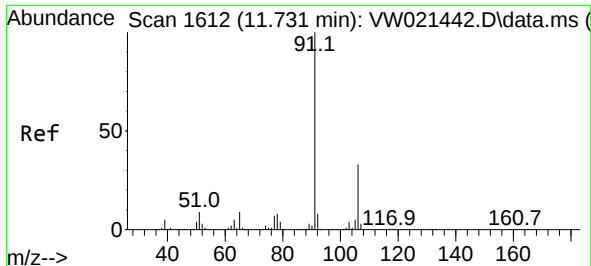
Tgt Ion: 97	Resp: 18024
Ion Ratio	Lower Upper
97	100
99	0.0 43.0 79.8#
83	9.9 62.6 116.3#
85	5.9 40.0 74.2#



#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

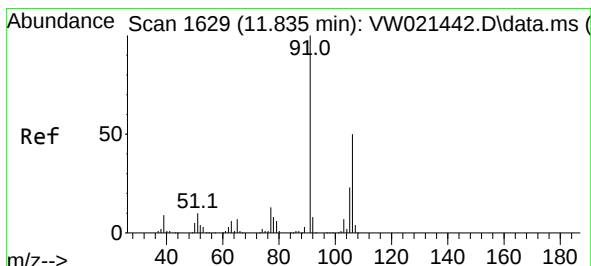
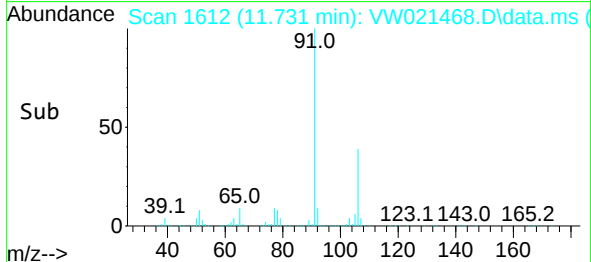
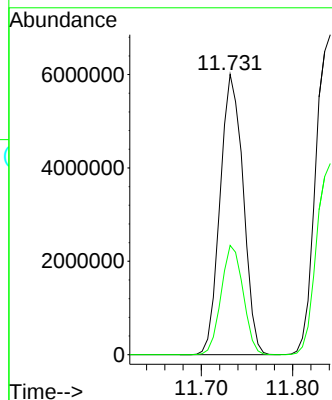
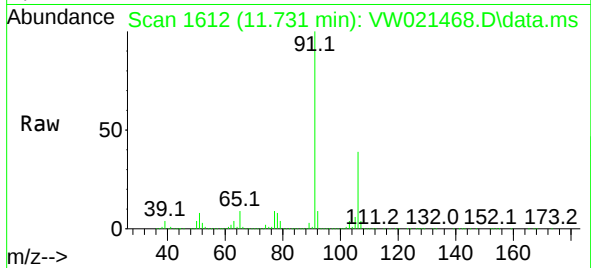




#52
Ethylbenzene
Concen: 2427.978 ug/L
RT: 11.731 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW021468.D
Acq: 18 Dec 2021 11:53

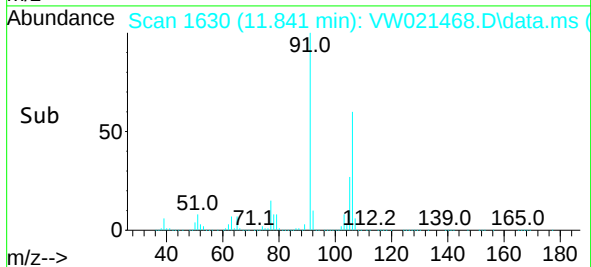
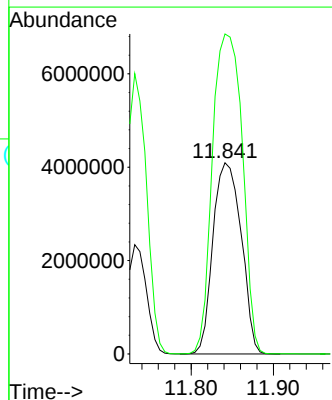
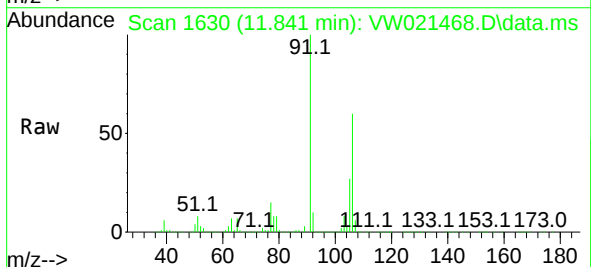
Instrument :
MSVOA_W
ClientSampleId :

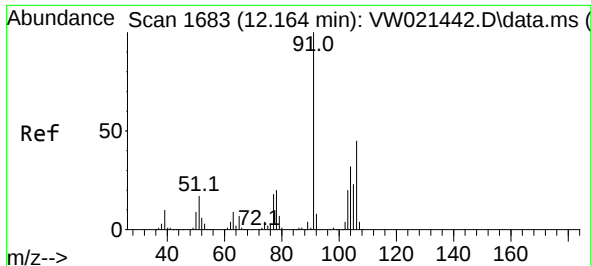
Tgt Ion: 91 Resp:10539844
Ion Ratio Lower Upper
91 100
106 39.0 21.5 39.9



#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

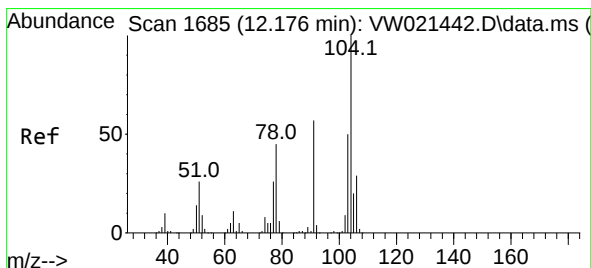
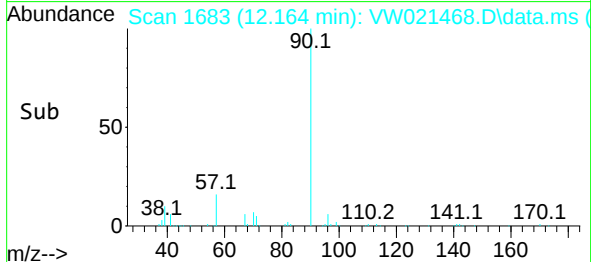
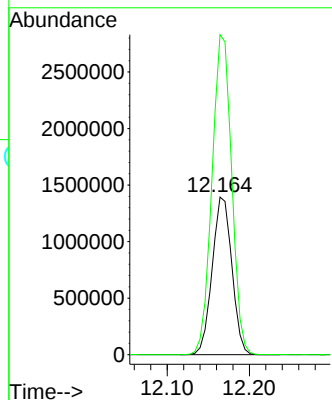
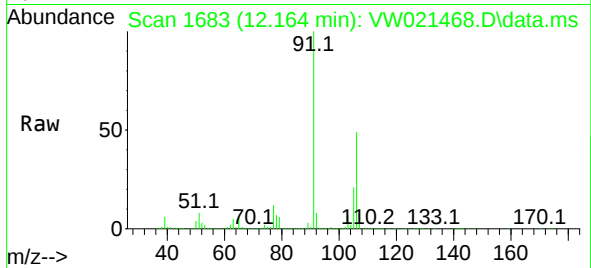




#54
o-Xylene
Concen: 1391.807 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VW021468.D
Acq: 18 Dec 2021 11:53

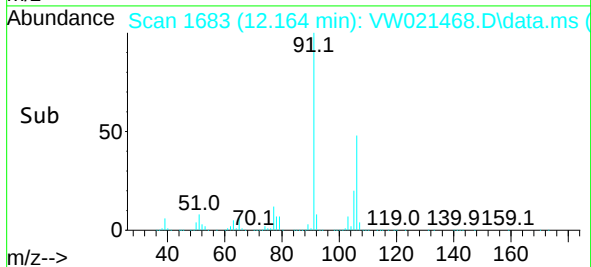
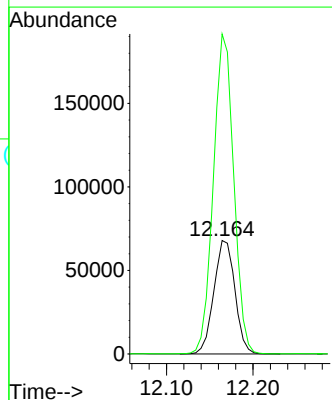
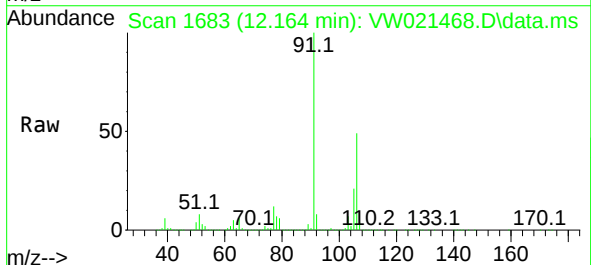
Instrument :
MSVOA_W
ClientSampleId :

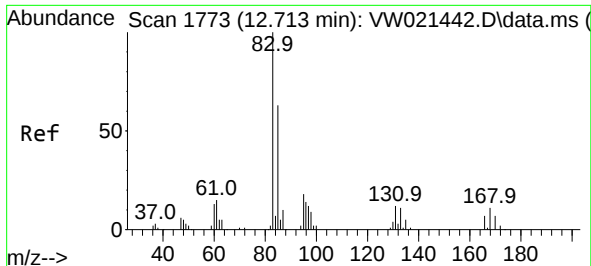
Tgt Ion:106 Resp: 2313128
Ion Ratio Lower Upper
106 100
91 203.1 153.6 285.3



#55
Styrene
Concen: 40.524 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. -0.012 min
Lab File: VW021468.D
Acq: 18 Dec 2021 11:53

Tgt Ion:104 Resp: 114623
Ion Ratio Lower Upper
104 100
78 282.0 34.4 64.0#





#57

1,1,2,2-Tetrachloroethane

Concen: 1.008 ug/L

RT: 12.743 min Scan# 1778

Delta R.T. 0.031 min

Lab File: VW021468.D

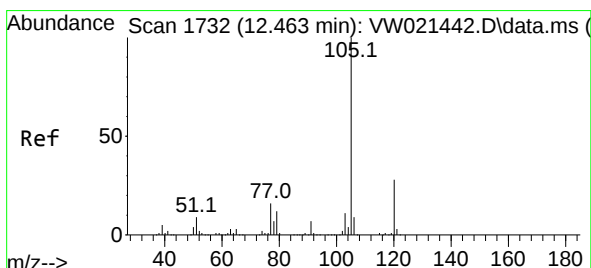
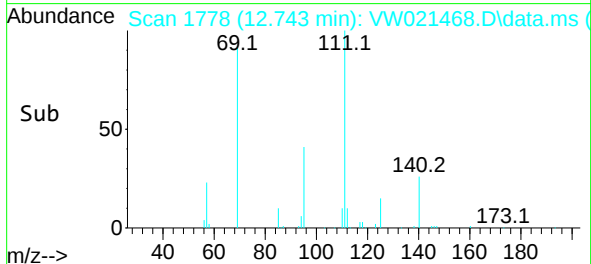
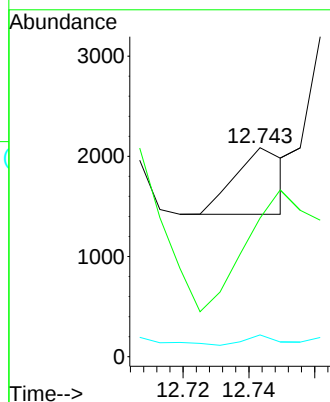
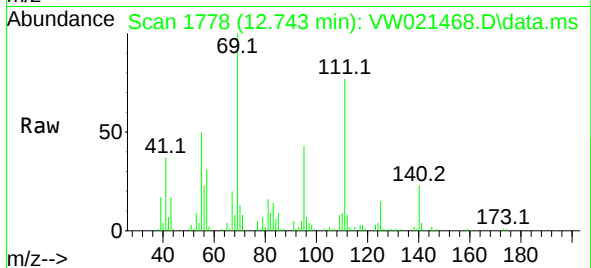
Acq: 18 Dec 2021 11:53

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 83	Resp:	685
Ion Ratio	Lower	Upper
83	100	
85	66.3	44.0 81.6
131	10.4	6.9 10.3#



#60

Isopropylbenzene

Concen: 210.525 ug/L

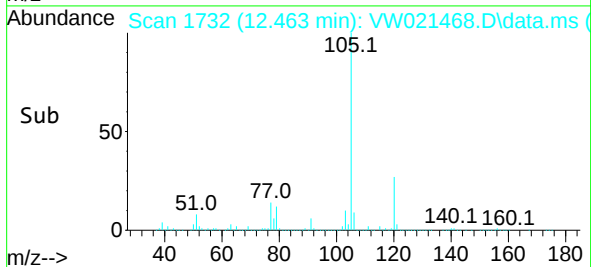
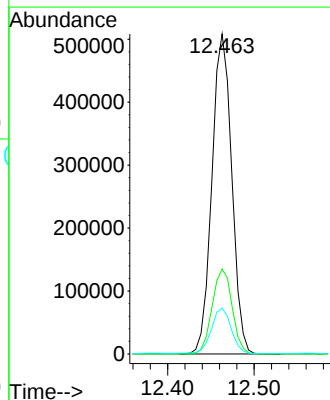
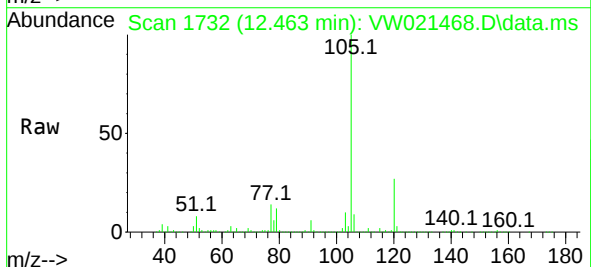
RT: 12.463 min Scan# 1732

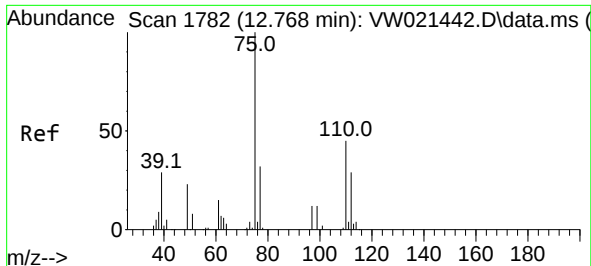
Delta R.T. 0.000 min

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





#61

1,2,3-Trichloropropane

Concen: 15.467 ug/L

RT: 12.804 min Scan# 11

Delta R.T. 0.037 min

Lab File: VW021468.D

Acq: 18 Dec 2021 11:53

Instrument :

MSVOA_W

ClientSampleId :

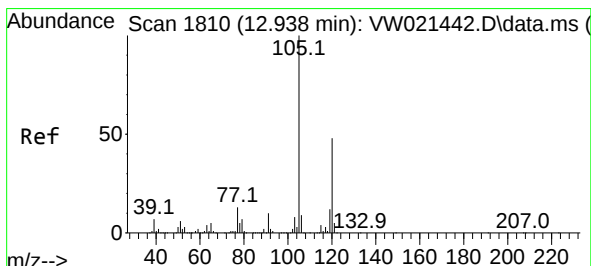
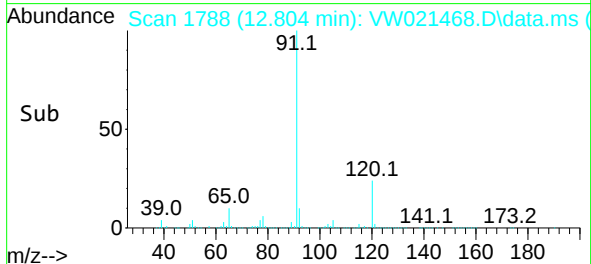
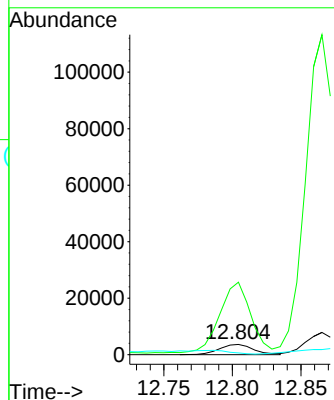
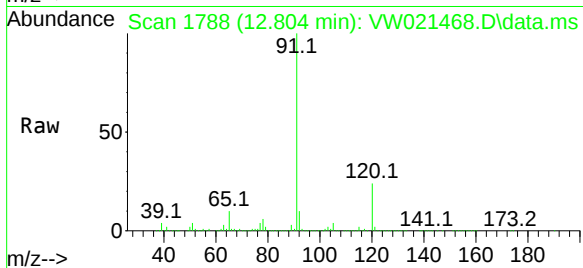
Tgt Ion: 75 Resp: 6341

Ion Ratio Lower Upper

75 100

77 610.9 25.8 38.8#

110 5.9 29.0 43.4#



#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

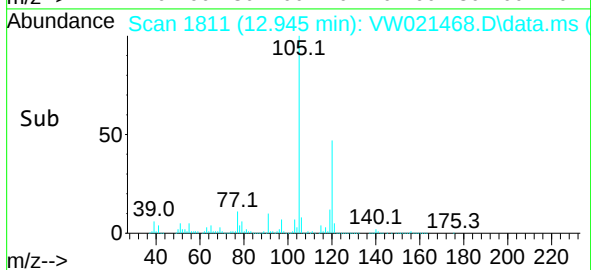
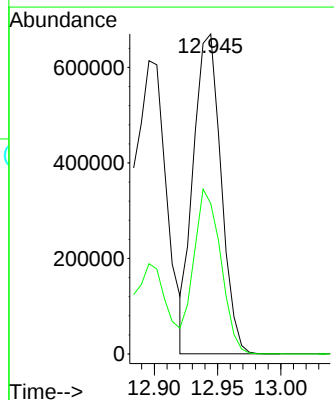
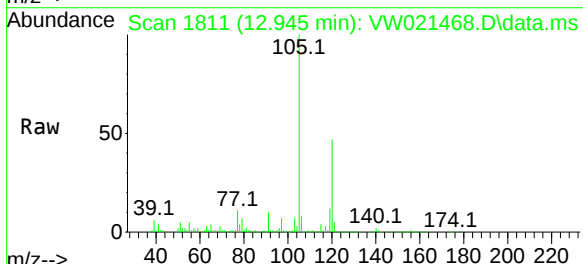
Acq: 18 Dec 2021 11:53

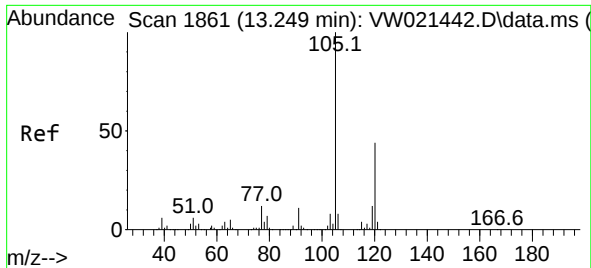
Tgt Ion:105 Resp: 1019210

Ion Ratio Lower Upper

105 100

120 50.3 37.4 56.2

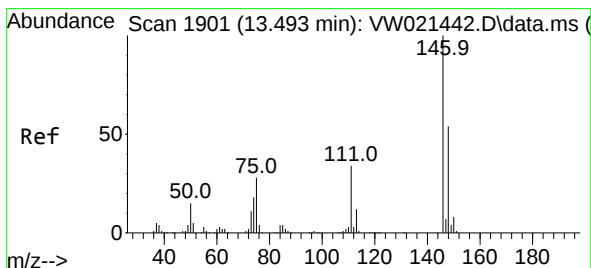
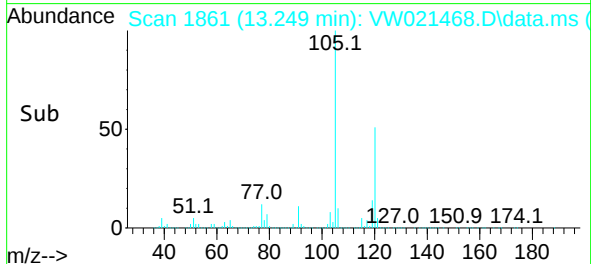
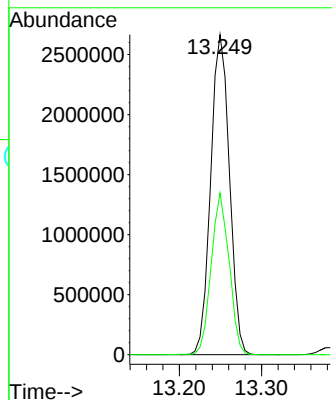
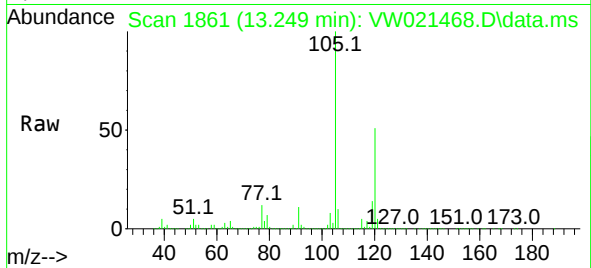




#63
 1,2,4-Trimethylbenzene
 Concen: 1315.257 ug/L
 RT: 13.249 min Scan# 1861
 Delta R.T. 0.000 min
 Lab File: VW021468.D
 Acq: 18 Dec 2021 11:53

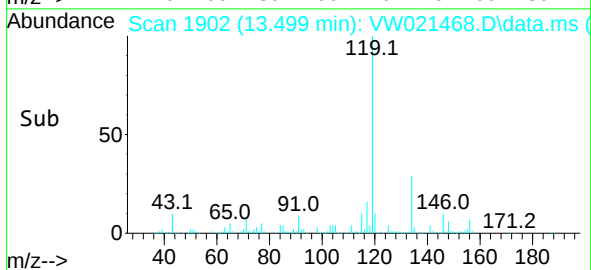
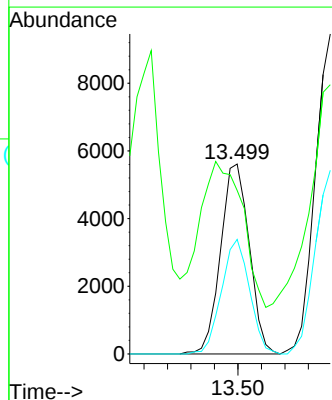
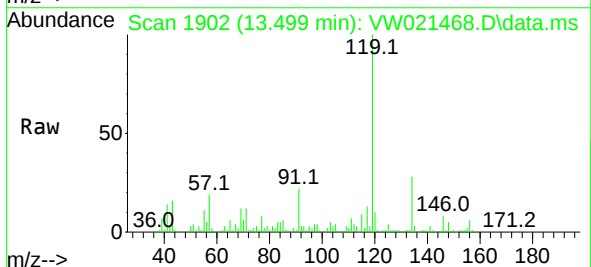
Instrument :
 MSVOA_W
 ClientSampleId :

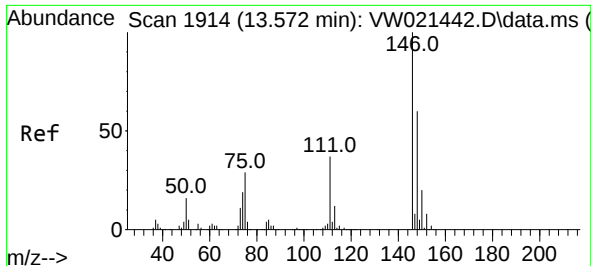
Tgt Ion:105 Resp: 4225962
 Ion Ratio Lower Upper
 105 100
 120 48.1 35.0 52.6



#64
 1,3-Dichlorobenzene
 Concen: 5.274 ug/L
 RT: 13.499 min Scan# 1902
 Delta R.T. 0.006 min
 Lab File: VW021468.D
 Acq: 18 Dec 2021 11:53

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

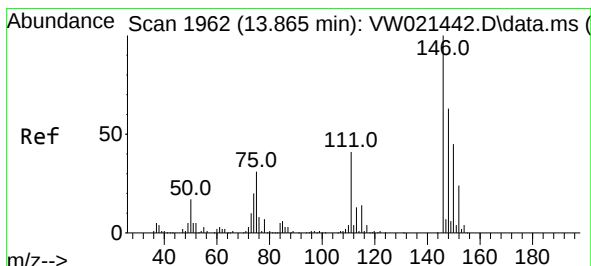
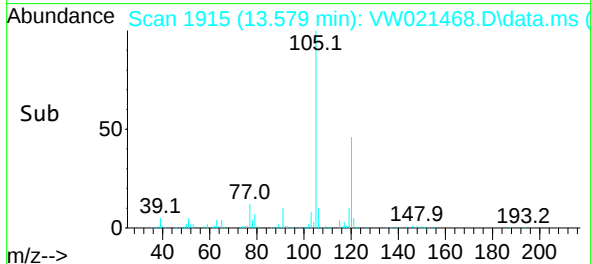
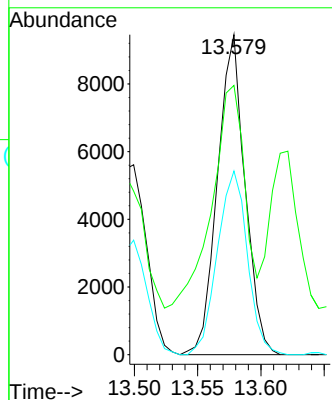
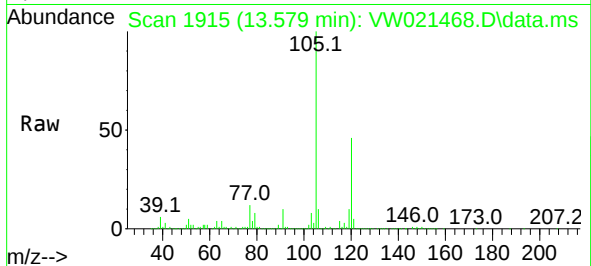




#65
1,4-Dichlorobenzene
Concen: 7.976 ug/L
RT: 13.579 min Scan# 1914
Delta R.T. 0.006 min
Lab File: VW021468.D
Acq: 18 Dec 2021 11:53

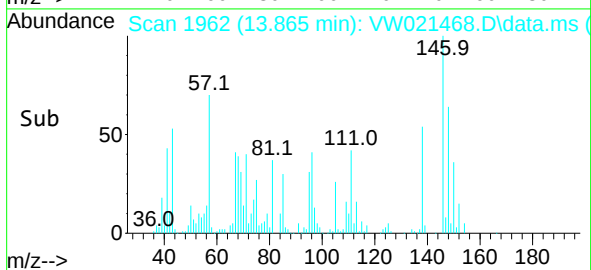
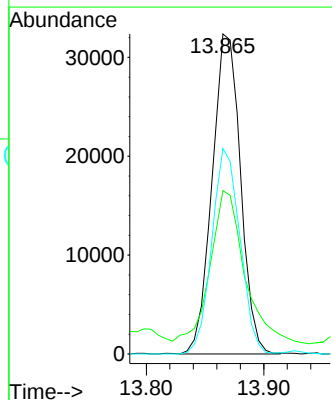
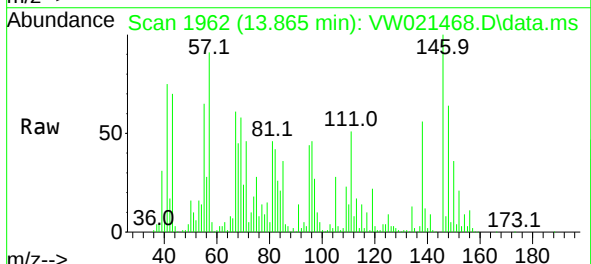
Instrument :
MSVOA_W
ClientSampleId :

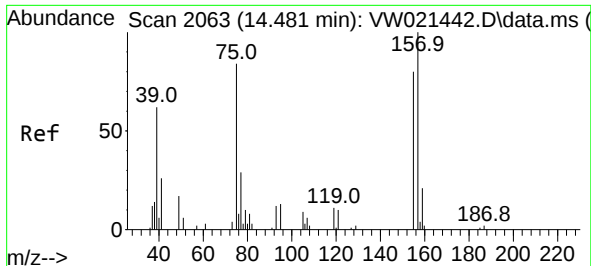
Tgt Ion:146 Resp: 14306
Ion Ratio Lower Upper
146 100
111 84.2 29.0 53.9#
148 57.4 46.9 87.1



#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

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





#68

1,2-Dibromo-3-chloropropane

Concen: 140.335 ug/L

RT: 14.487 min Scan# 2063

Delta R.T. 0.006 min

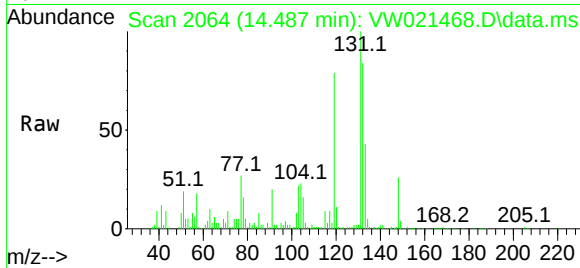
Lab File: VW021468.D

Acq: 18 Dec 2021 11:53

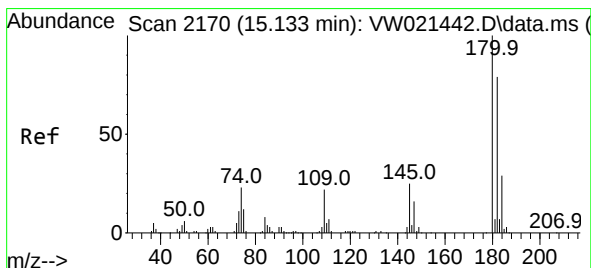
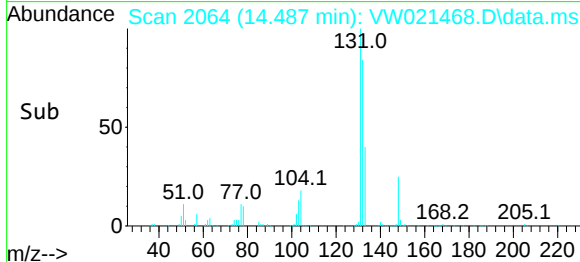
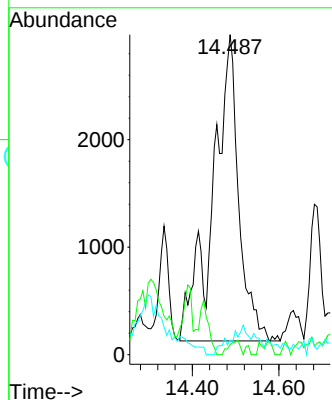
Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 75	Resp: 11867
Ion Ratio	Lower Upper
75	100
155	3.1 54.2 81.2#
157	4.6 69.4 104.2#



#70

1,2,4-trichlorobenzene

Concen: 46.401 ug/L

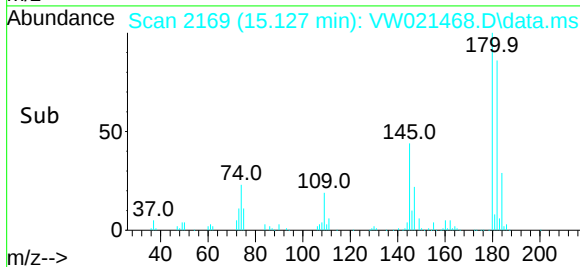
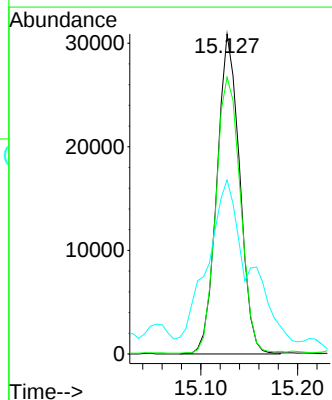
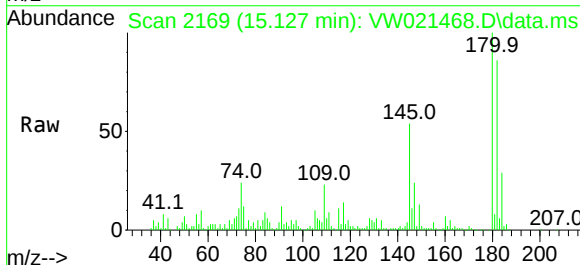
RT: 15.127 min Scan# 2169

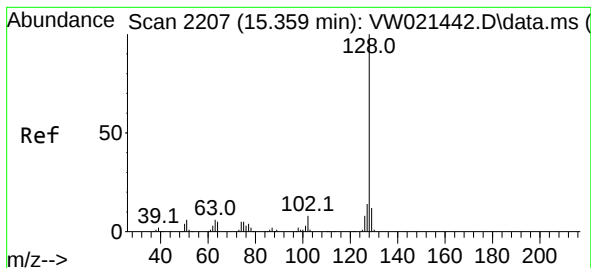
Delta R.T. -0.006 min

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#





#71

Naphthalene

Concen: 1658.580 ug/L

RT: 15.365 min Scan# 21

Delta R.T. 0.006 min

Lab File: VW021468.D

Acq: 18 Dec 2021 11:53

Instrument :

MSVOA_W

ClientSampleId :

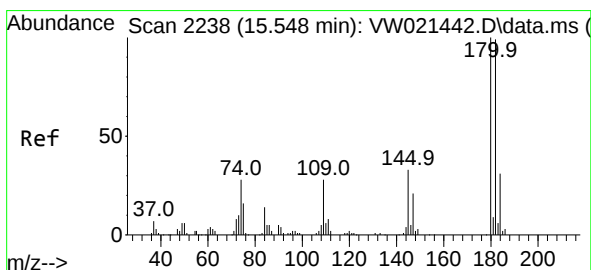
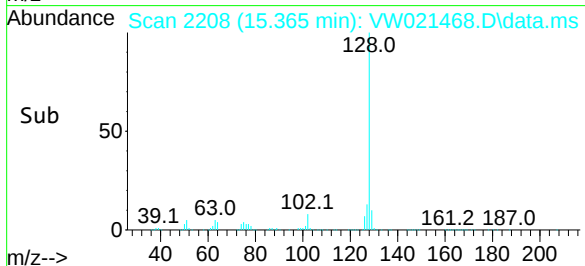
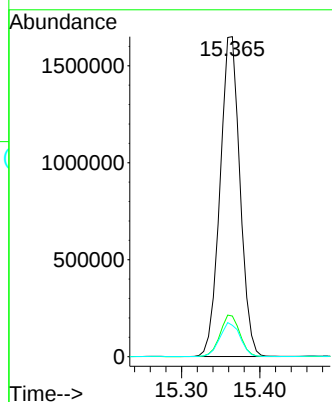
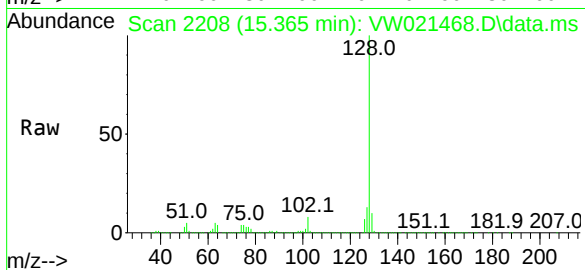
Tgt Ion:128 Resp: 2924604

Ion Ratio Lower Upper

128 100

127 13.0 10.7 16.1

129 10.8 8.6 12.8



#72

1,2,3-Trichlorobenzene

Concen: 16.323 ug/L

RT: 15.554 min Scan# 2239

Delta R.T. 0.006 min

Lab File: VW021468.D

Acq: 18 Dec 2021 11:53

Tgt Ion:180 Resp: 14641

Ion Ratio Lower Upper

180 100

182 88.5 76.6 114.8

145 117.7 27.4 41.0#

