

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW061120\
 Data File : VW015583.D
 Acq On : 11 Jun 2020 12:43
 Operator : SY/VA
 Sample : L2959-07
 Misc : 5.41G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BG2K1

Quant Time: Jun 12 05:04:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM052620S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jun 12 05:02:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	324081	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	247756	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	79707	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	112109	37.75	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	151.00%#
7) Chloroethane-d5	2.90	69	88198	29.86	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	119.44%
10) 1,1-Dichloroethene-d2	4.01	63	156068	21.57	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	86.28%
20) 2-Butanone-d5	7.09	46	49089	50.63	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	101.26%
24) Chloroform-d	7.65	84	194903	26.01	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	104.04%
26) 1,2-Dichloroethane-d4	8.31	65	110054	26.40	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	105.60%
29) Benzene-d6	8.28	84	384319	31.63	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	126.52%
33) 1,2-Dichloropropane-d6	9.27	67	110832	30.02	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	120.08%#
37) Toluene-d8	10.32	98	321621	27.23	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	108.92%
38) trans-1,3-Dichloropropene-	10.58	79	46113	27.00	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	108.00%
39) 2-Hexanone-d5	10.93	63	36894	57.71	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	115.42%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	68975	24.81	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	99.24%
61) 1,2-Dichlorobenzene-d4	13.85	152	64002	23.96	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	95.84%

Target Compounds

					Ovalue
13) Acetone	4.13	43	78615	104.878	ug/L 100
14) Carbon disulfide	4.38	76	4870	0.378	ug/L # 90
21) 2-Butanone	7.18	43	45366	39.397	ug/L 98
22) cis-1,2-Dichloroethene	7.17	96	3696	0.856	ug/L 93
34) Benzene	8.33	78	22883	1.652	ug/L 100
35) Trichloroethene	9.09	95	7467	2.006	ug/L 97
40) 1,2-Dichloropropane	9.27	63	13670	4.006	ug/L # 87
42) cis-1,3-Dichloropropene	10.04	75	3517	0.644	ug/L # 69
44) Toluene	10.39	91	205985	13.646	ug/L 96
45) trans-1,3-Dichloropropene	10.58	75	2380	0.501	ug/L 87
47) Tetrachloroethene	10.87	164	24889	8.436	ug/L 97
49) 2-Hexanone	10.93	43	10617	7.864	ug/L # 53
50) Dibromochloromethane	10.87	129	23638	8.151	ug/L # 12
53) Ethylbenzene	11.73	91	71371	4.118	ug/L 99
54) m,p-Xylene	11.83	106	52326	8.045	ug/L 97
55) o-xylene	12.17	106	20025	3.244	ug/L 100
56) Styrene	12.18	104	9446	0.895	ug/L 93

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Quant Title : VOC Analysis
QLast Update : Fri Jun 12 05:02:36 2020
Response via : Initial Calibration

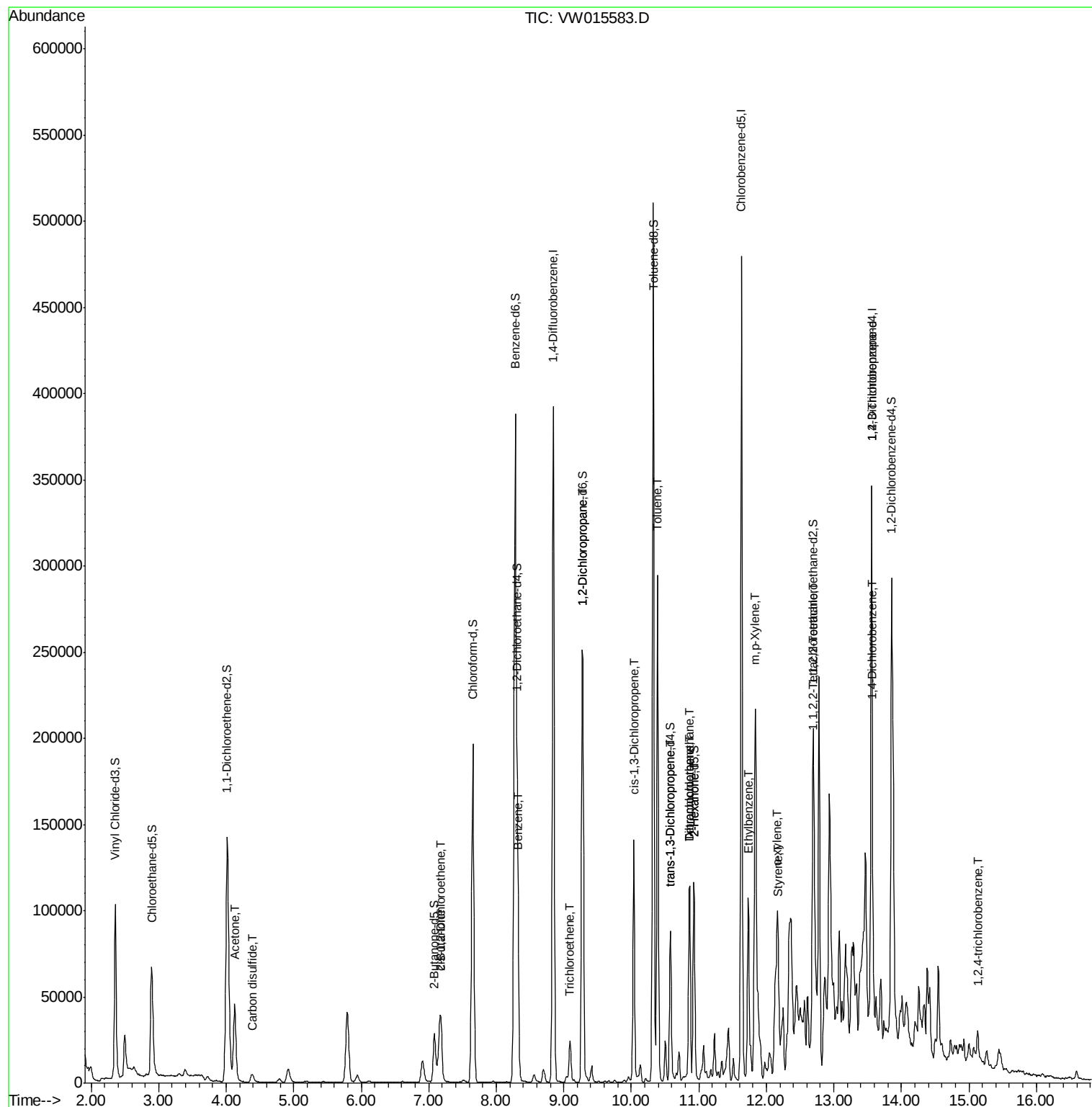
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) 1,1,2,2-Tetrachloroethane	12.68	83	3141	1.137	ug/L #	64
59) 1,2,3-Trichloropropane	13.56	75	13479	6.433	ug/L	100
64) 1,4-Dichlorobenzene	13.58	146	10757	2.251	ug/L #	82
68) 1,2,4-trichlorobenzene	15.13	180	3310	1.217	ug/L #	32

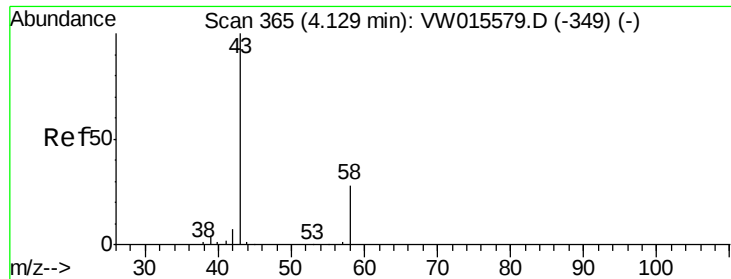
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 104.878 ug/L

RT: 4.13 min Scan# 365

Delta R.T. -0.00 min

Lab File: VW015583.D

Acq: 11 Jun 2020 12:43

Instrument :

MSVOA_W

ClientSampleId :

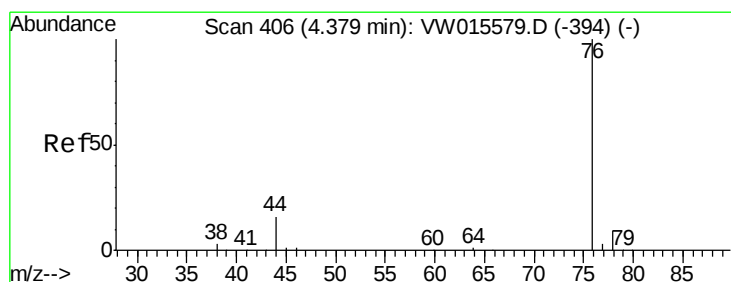
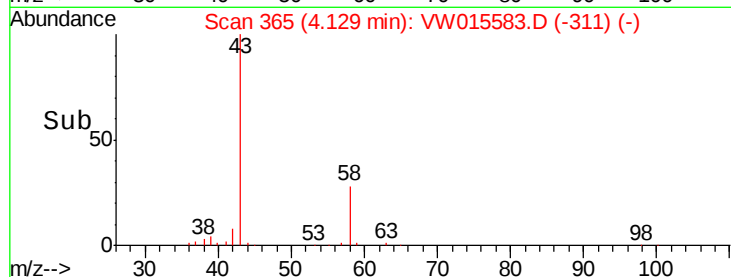
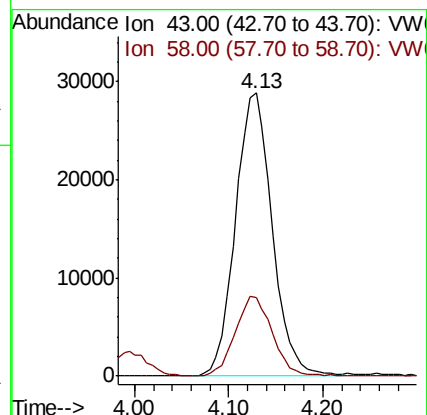
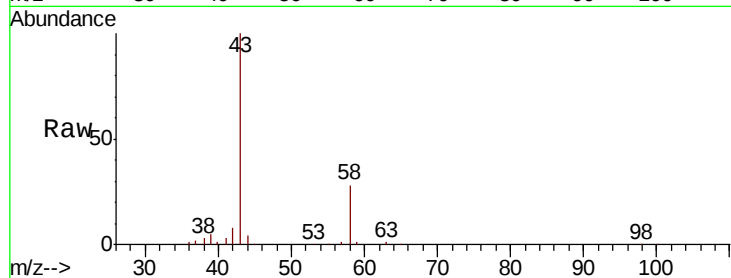
BG2K1

Tot Ion: 43 Resp: 78615

Ion Ratio Lower Upper

43 100

58 28.3 0.0 56.8



#14

Carbon disulfide

Concen: 0.378 ug/L

RT: 4.38 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW015583.D

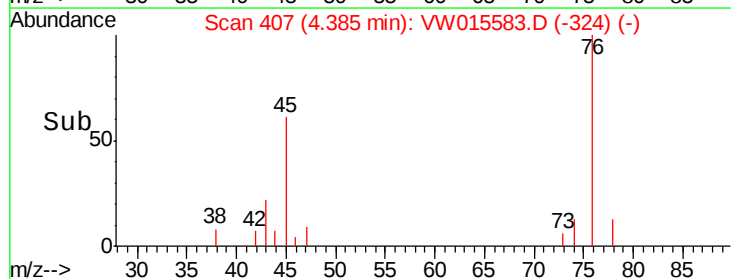
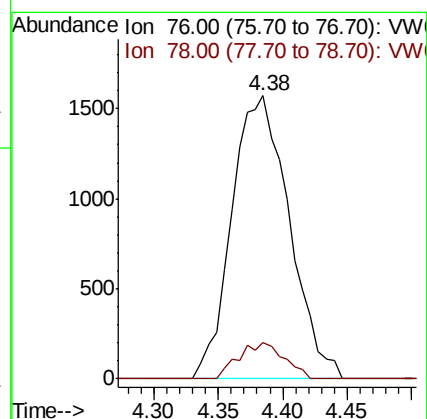
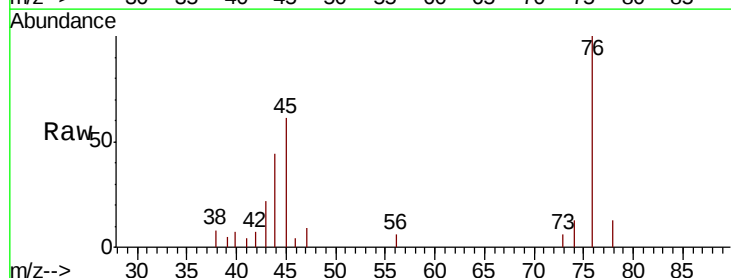
Acq: 11 Jun 2020 12:43

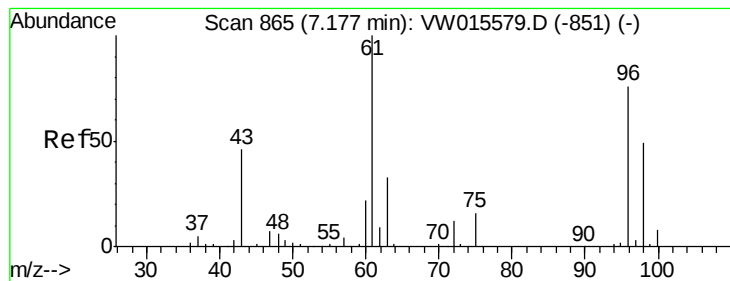
Tgt Ion: 76 Resp: 4870

Ion Ratio Lower Upper

76 100

78 12.7 7.3 10.9#





#21

2-Butanone

Concen: 39.397 ug/L

RT: 7.18 min Scan# 865

Delta R.T. -0.00 min

Lab File: VW015583.D

Acq: 11 Jun 2020 12:43

Instrument :

MSVOA_W

ClientSampleId :

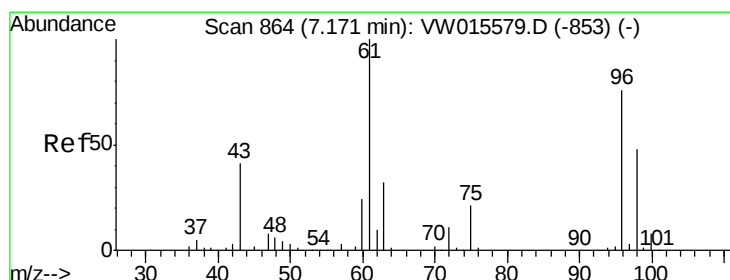
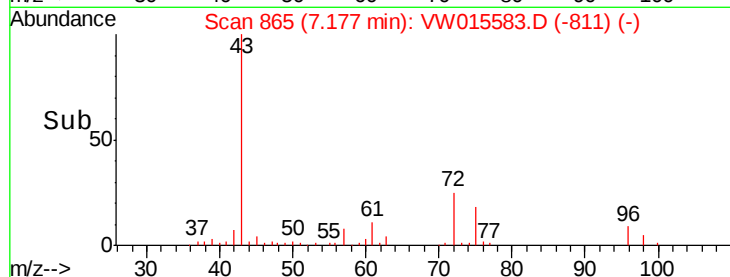
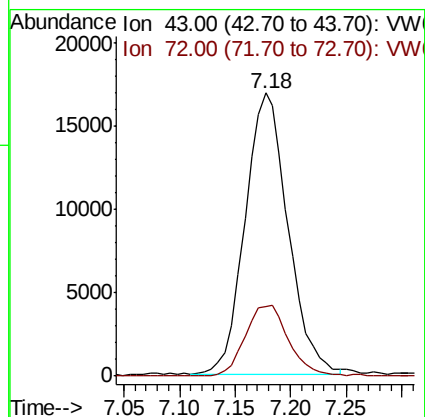
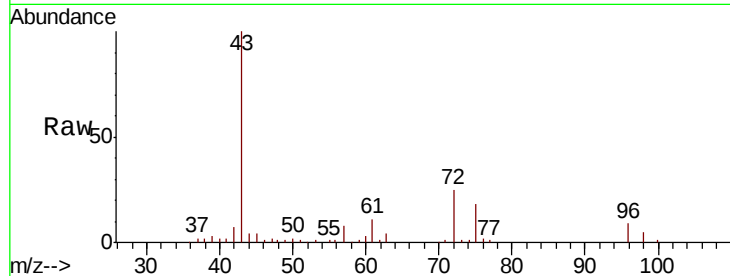
BG2K1

Tot Ion: 43 Resp: 45366

Ion Ratio Lower Upper

43 100

72 25.5 13.3 39.9



#22

cis-1,2-Dichloroethene

Concen: 0.856 ug/L

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW015583.D

Acq: 11 Jun 2020 12:43

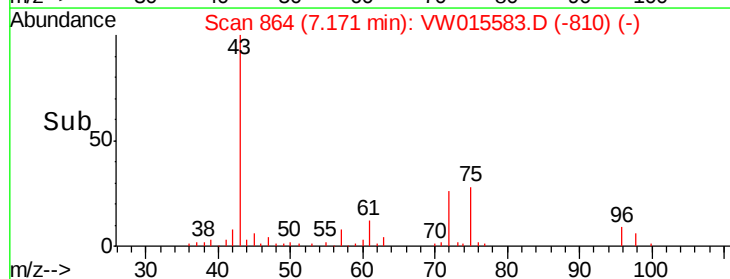
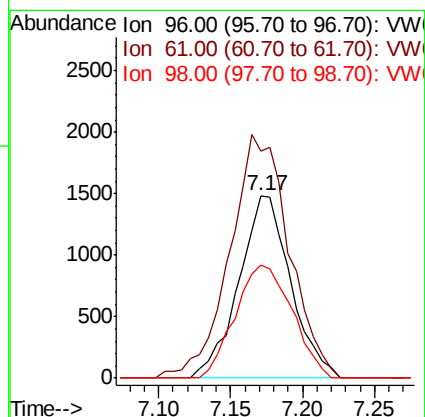
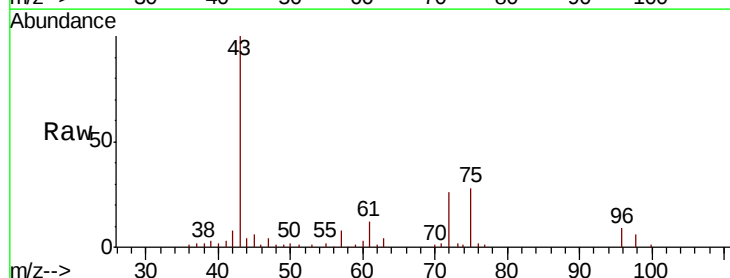
Tgt Ion: 96 Resp: 3696

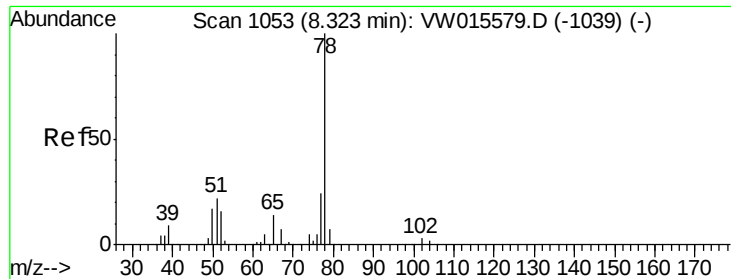
Ion Ratio Lower Upper

96 100

61 124.0 93.7 173.9

98 62.0 45.1 83.9





#34

Benzene

Concen: 1.652 ug/L

RT: 8.33 min Scan# 1054

Delta R.T. 0.01 min

Lab File: VW015583.D

Acq: 11 Jun 2020 12:43

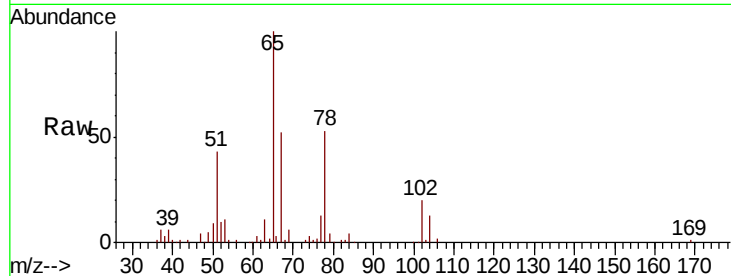
Instrument :

MSVOA_W

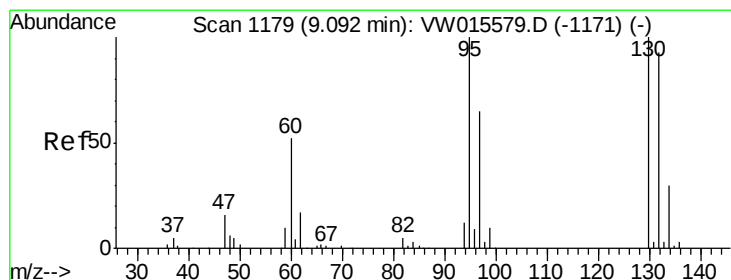
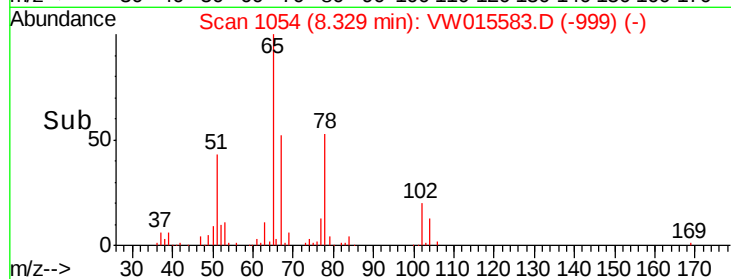
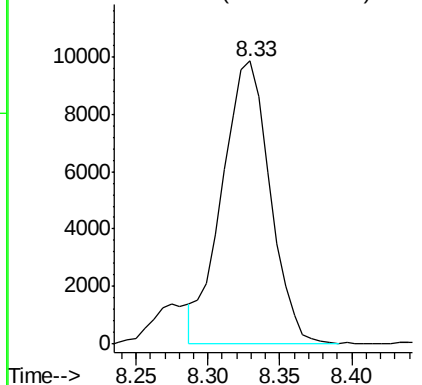
ClientSampleId :

BG2K1

Tgt Ion: 78 Resp: 22883



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 2.006 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW015583.D

Acq: 11 Jun 2020 12:43

Tgt Ion: 95 Resp: 7467

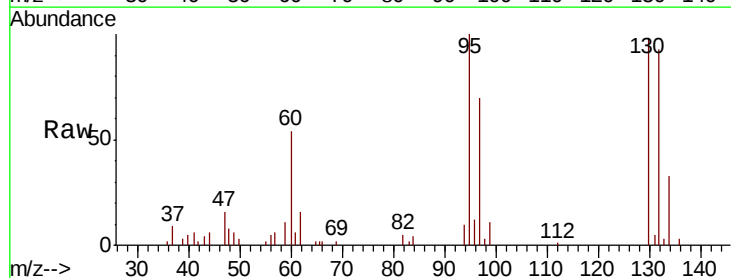
Ion	Ratio	Lower	Upper
95	100		
97	70.1	45.4	84.2
132	96.7	67.1	124.7
130	100.7	69.4	128.8

95 100

97 70.1 45.4 84.2

132 96.7 67.1 124.7

130 100.7 69.4 128.8

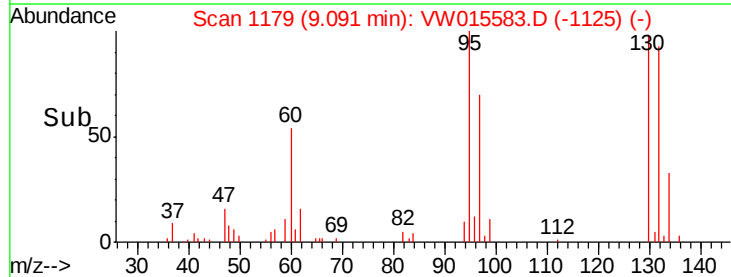
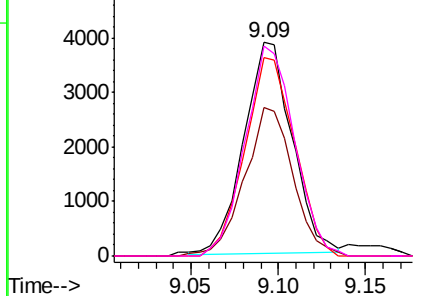


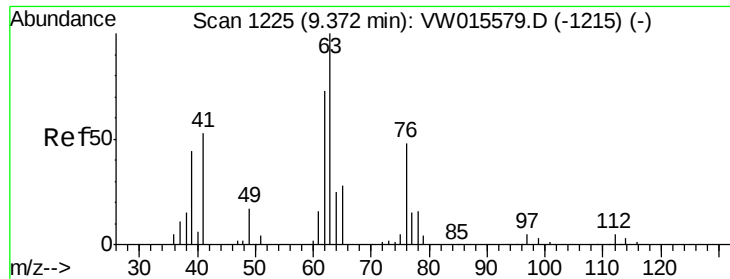
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

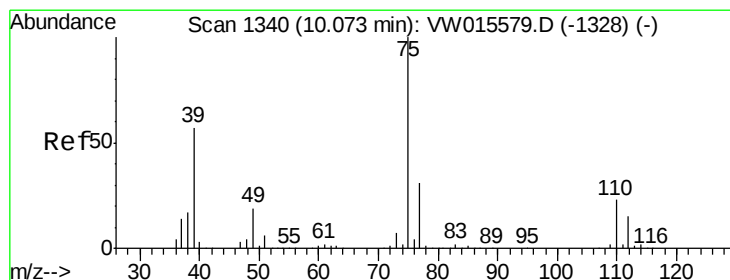
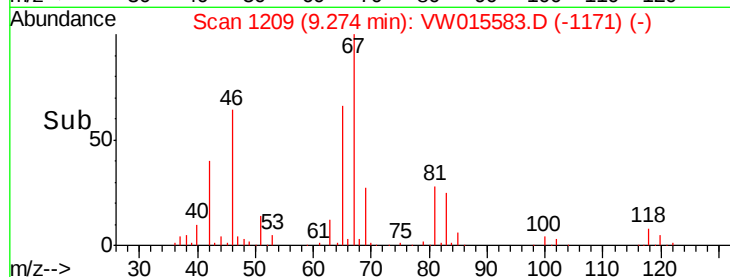
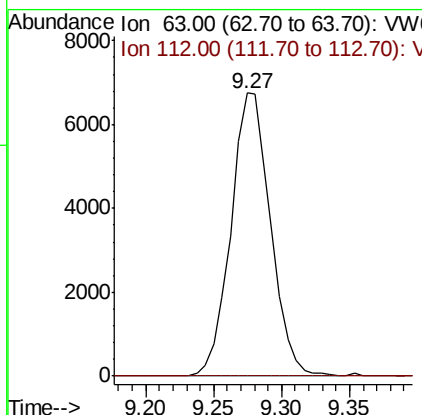
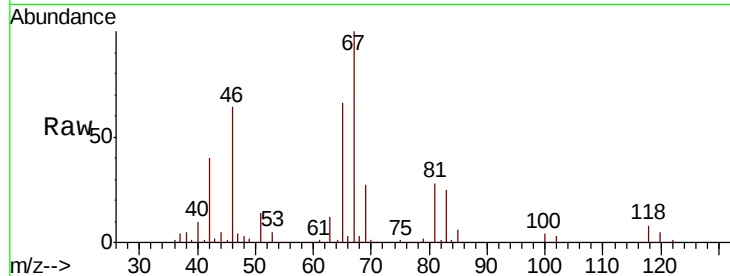




#40
 1,2-Dichloropropane
 Concen: 4.006 ug/L
 RT: 9.27 min Scan# 1209
 Delta R.T. -0.10 min
 Lab File: VW015583.D
 Acq: 11 Jun 2020 12:43

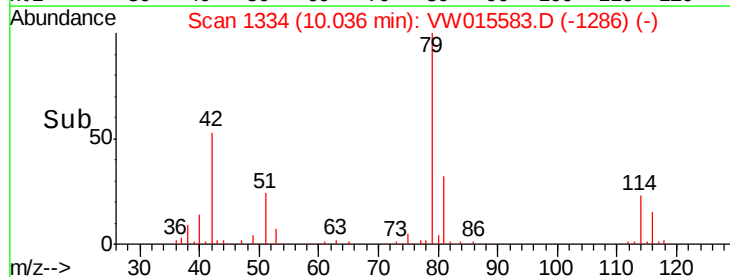
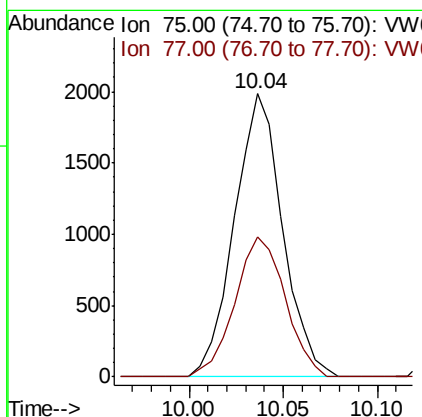
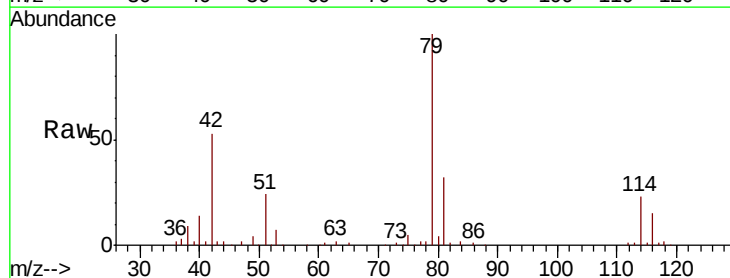
Instrument :
 MSVOA_W
 ClientSampleId :
 BG2K1

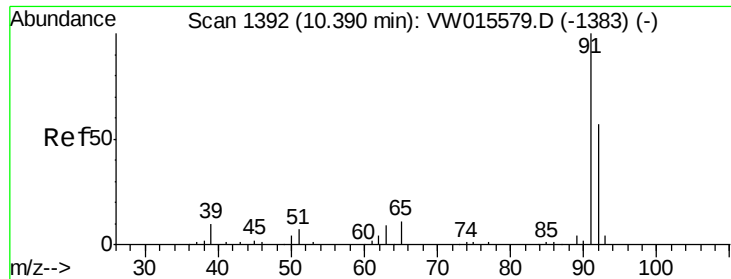
Tot Ion: 63 Resp: 13670
 Ion Ratio Lower Upper
 63 100
 112 0.5 3.8 5.8#



#42
 cis-1,3-Dichloropropene
 Concen: 0.644 ug/L
 RT: 10.04 min Scan# 1334
 Delta R.T. -0.04 min
 Lab File: VW015583.D
 Acq: 11 Jun 2020 12:43

Tgt Ion: 75 Resp: 3517
 Ion Ratio Lower Upper
 75 100
 77 49.4 22.3 41.5#





#44

Toluene

Concen: 13.646 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW015583.D

Acq: 11 Jun 2020 12:43

Instrument :

MSVOA_W

ClientSampleId :

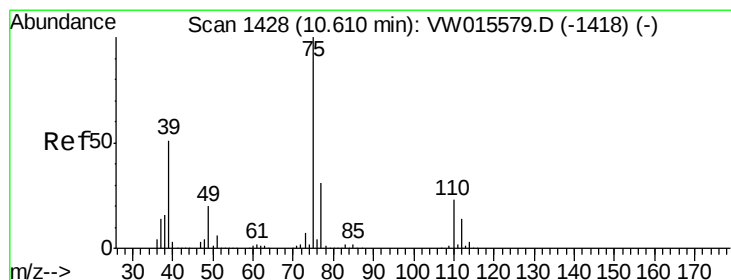
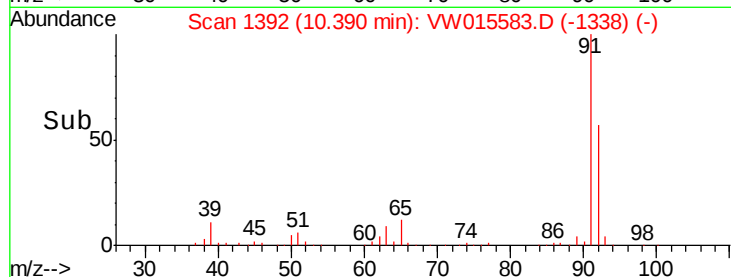
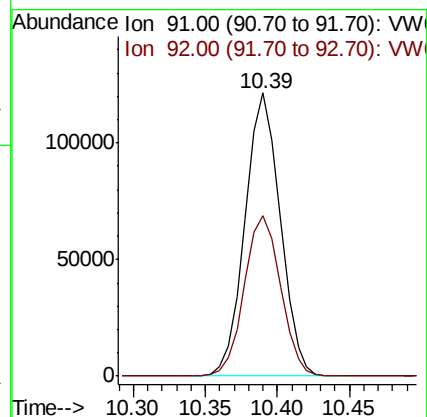
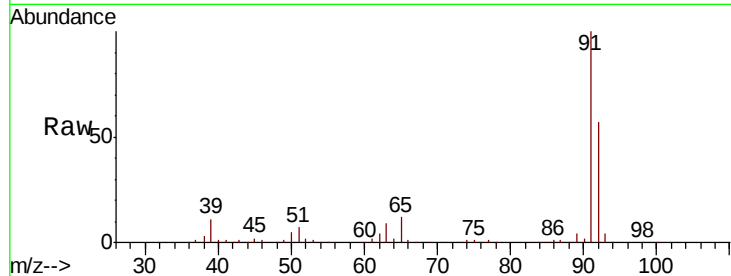
BG2K1

Tot Ion: 91 Resp: 205985

Ion Ratio Lower Upper

91 100

92 56.9 41.7 77.5



#45

trans-1,3-Dichloropropene

Concen: 0.501 ug/L

RT: 10.58 min Scan# 1423

Delta R.T. -0.03 min

Lab File: VW015583.D

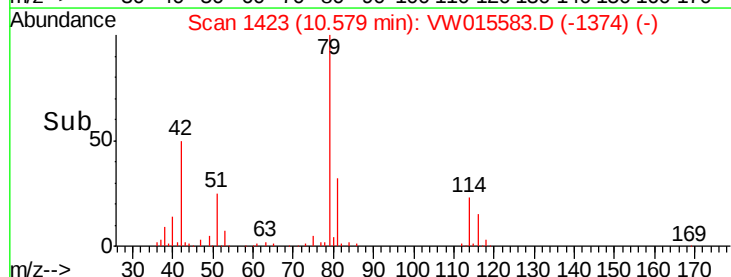
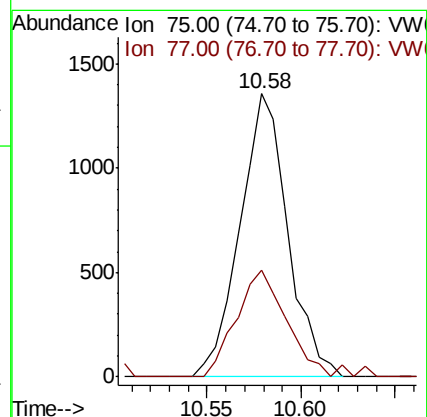
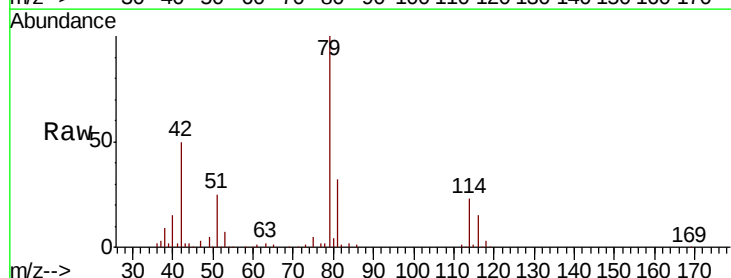
Acq: 11 Jun 2020 12:43

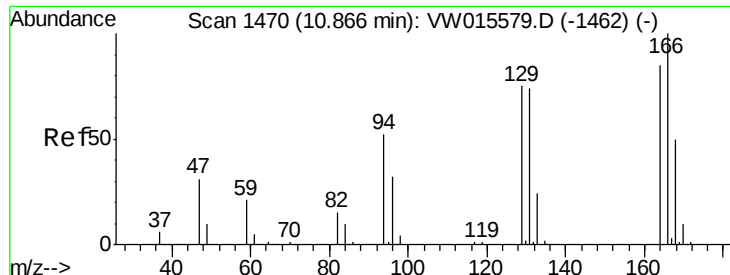
Tgt Ion: 75 Resp: 2380

Ion Ratio Lower Upper

75 100

77 37.7 21.5 39.9





#47

Tetrachloroethene

Concen: 8.436 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VW015583.D

Acq: 11 Jun 2020 12:43

Instrument :

MSVOA_W

ClientSampled :

BG2K1

Tot Ion:164 Resp: 24889

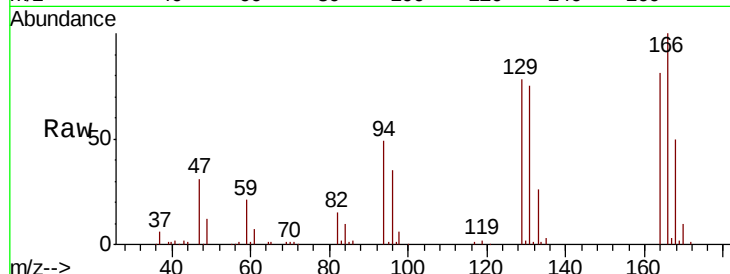
Ion Ratio Lower Upper

164 100

129 95.7 66.3 123.1

131 92.6 65.1 120.9

166 123.4 90.8 168.6

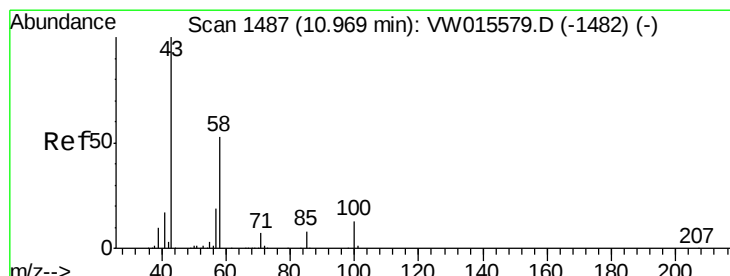
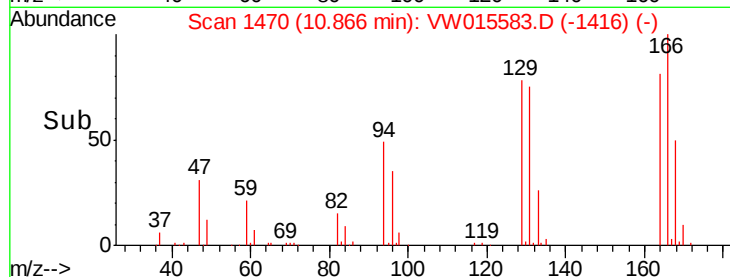
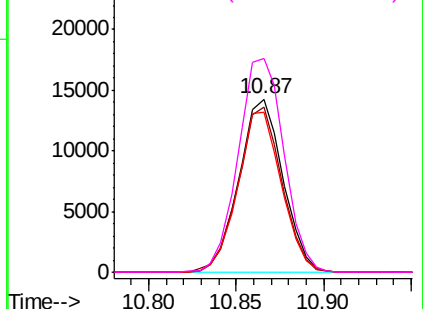


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#49

2-Hexanone

Concen: 7.864 ug/L

RT: 10.93 min Scan# 1481

Delta R.T. -0.04 min

Lab File: VW015583.D

Acq: 11 Jun 2020 12:43

Tgt Ion: 43 Resp: 10617

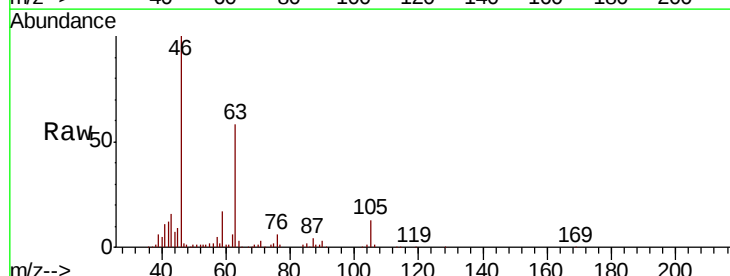
Ion Ratio Lower Upper

43 100

58 10.4 42.6 64.0#

57 29.2 15.5 23.3#

100 0.7 10.3 15.5#

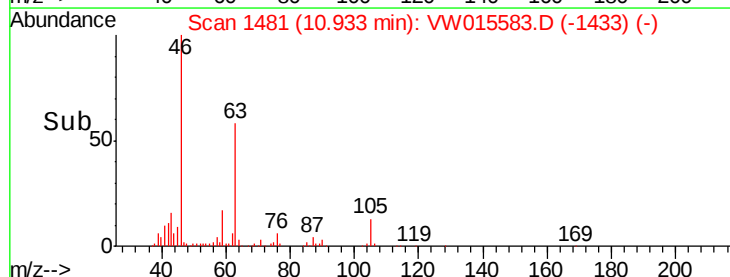
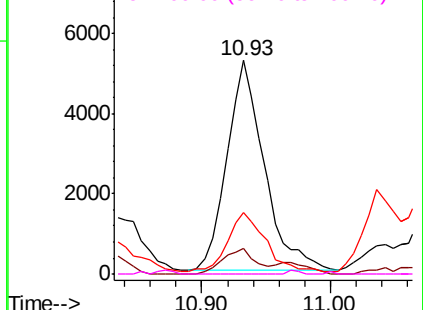


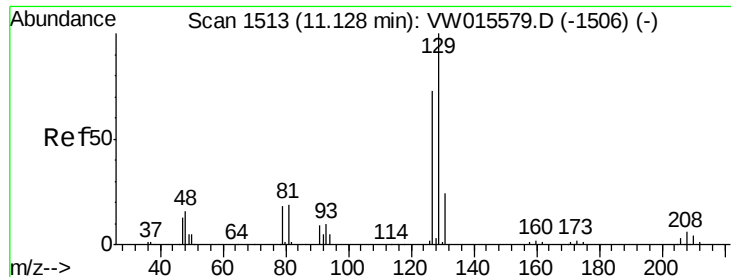
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW

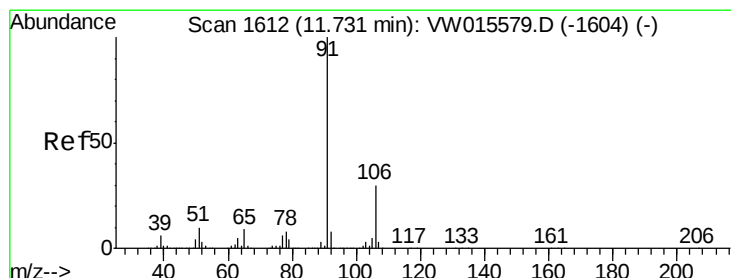
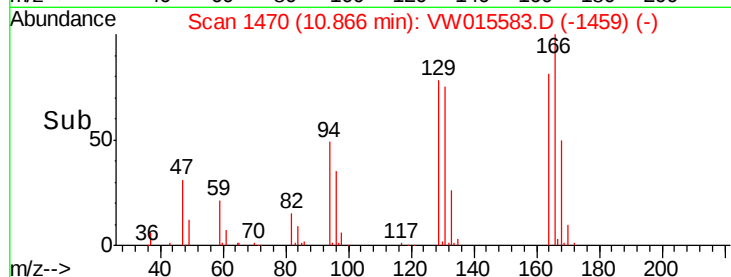
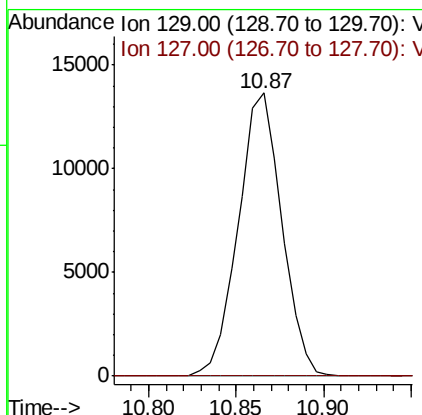
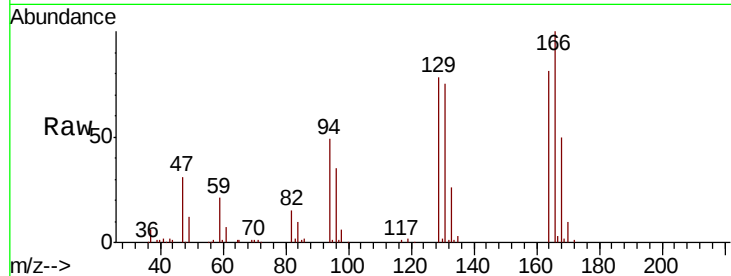




#50
Dibromochloromethane
Concen: 8.151 ug/L
RT: 10.87 min Scan# 1470
Delta R.T. -0.26 min
Lab File: VW015583.D
Acq: 11 Jun 2020 12:43

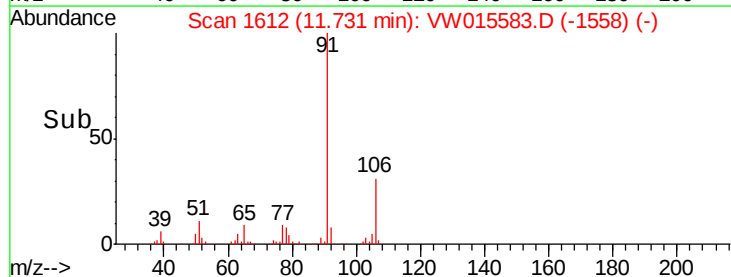
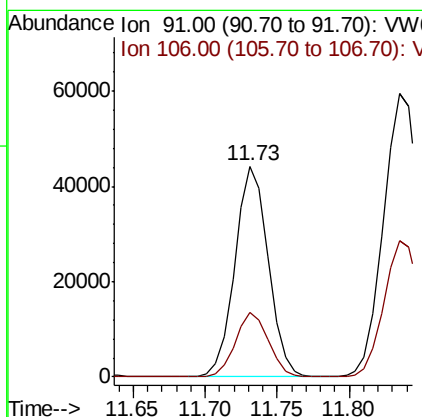
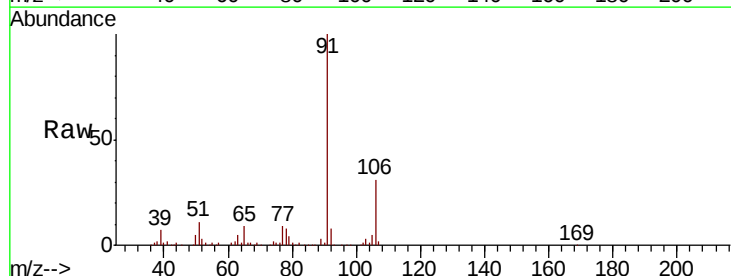
Instrument :
MSVOA_W
ClientSampleId :
BG2K1

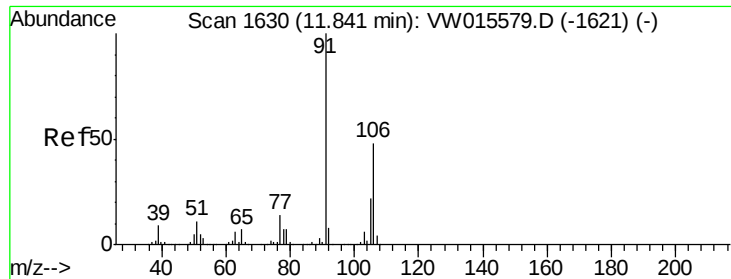
Tot Ion:129 Resp: 23638
Ion Ratio Lower Upper
129 100
127 0.0 53.0 98.4#



#53
Ethylbenzene
Concen: 4.118 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW015583.D
Acq: 11 Jun 2020 12:43

Tgt Ion: 91 Resp: 71371
Ion Ratio Lower Upper
91 100
106 30.8 21.3 39.6





#54

m,p-Xylene

Concen: 8.045 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW015583.D

Acq: 11 Jun 2020 12:43

Instrument :

MSVOA_W

ClientSampleId :

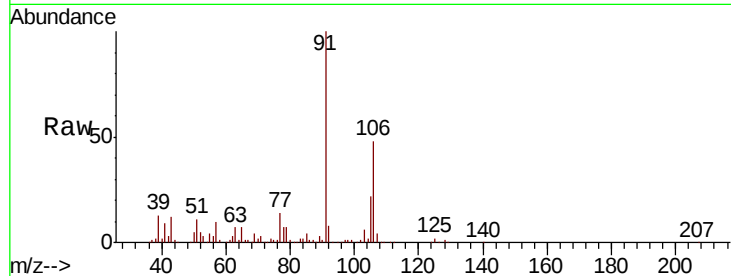
BG2K1

Tot Ion:106 Resp: 52326

Ion Ratio Lower Upper

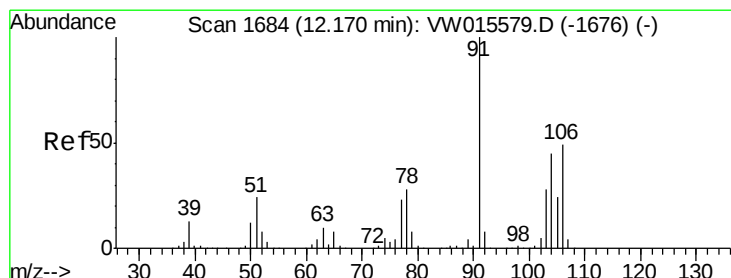
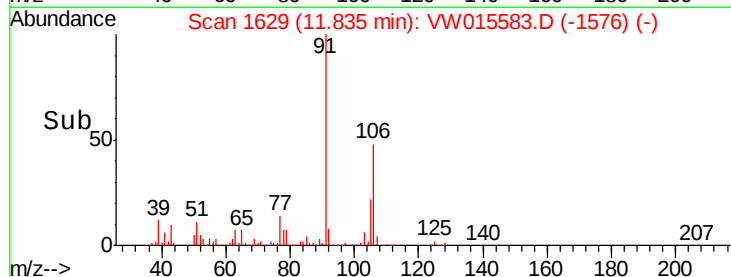
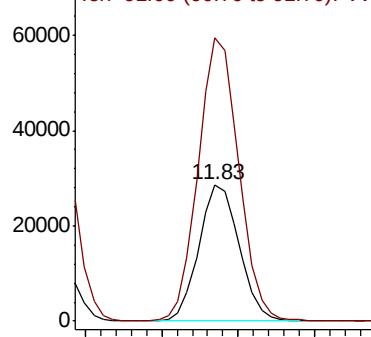
106 100

91 207.7 142.6 264.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 3.244 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VW015583.D

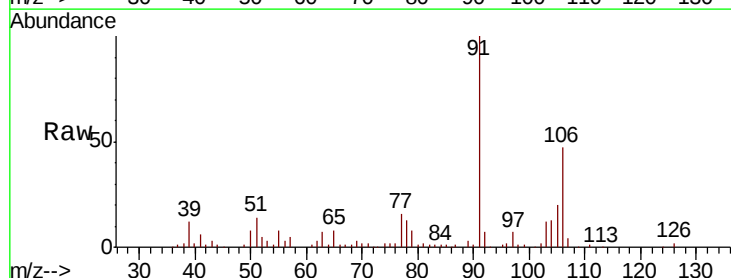
Acq: 11 Jun 2020 12:43

Tgt Ion:106 Resp: 20025

Ion Ratio Lower Upper

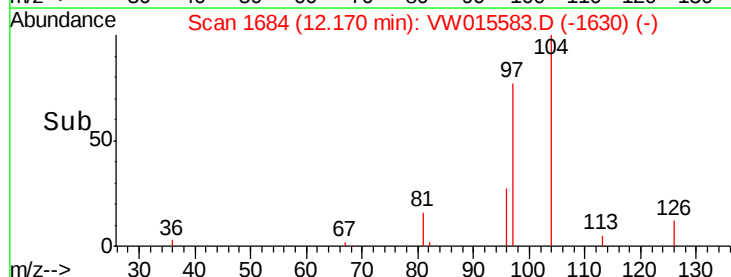
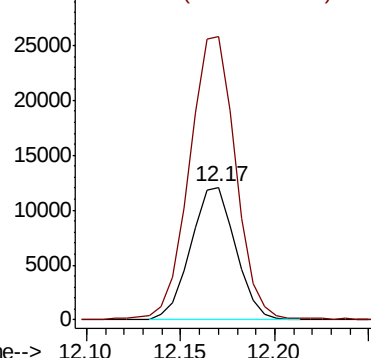
106 100

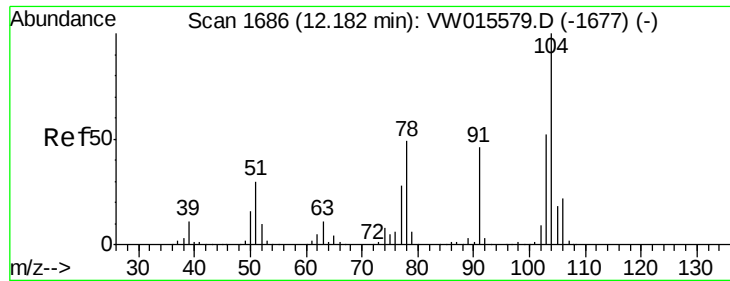
91 213.4 149.0 276.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Stvrene

Concen: 0.895 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW015583.D

Acq: 11 Jun 2020 12:43

Instrument :

MSVOA_W

ClientSampleId :

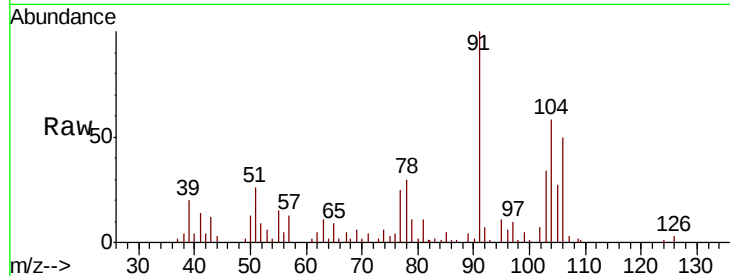
BG2K1

Tot Ion:104 Resp: 9446

Ion Ratio Lower Upper

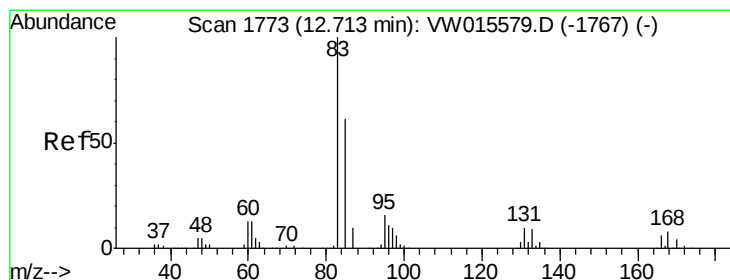
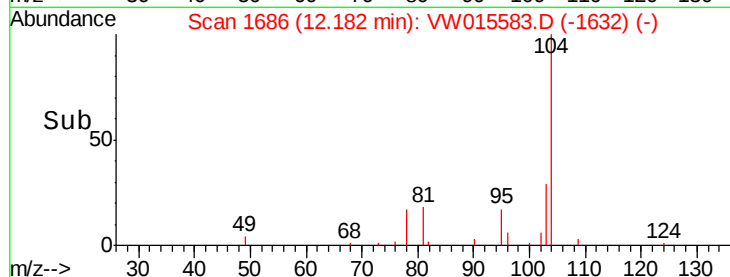
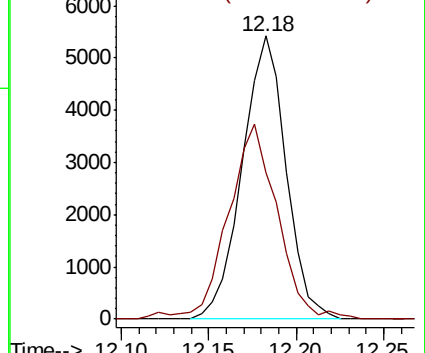
104 100

78 51.8 32.9 61.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW



#58

1,1,2,2-Tetrachloroethane

Concen: 1.137 ug/L

RT: 12.68 min Scan# 1768

Delta R.T. -0.03 min

Lab File: VW015583.D

Acq: 11 Jun 2020 12:43

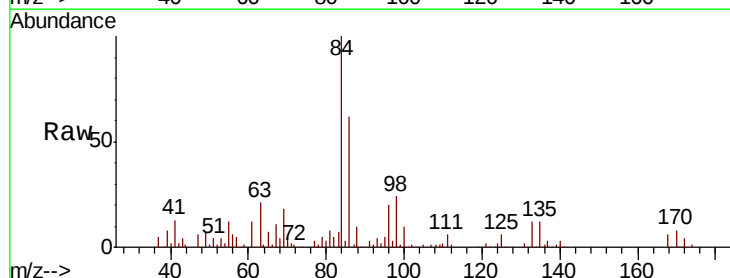
Tgt Ion: 83 Resp: 3141

Ion Ratio Lower Upper

83 100

85 36.7 44.7 82.9#

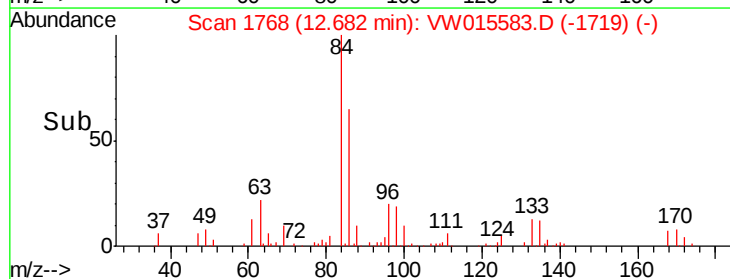
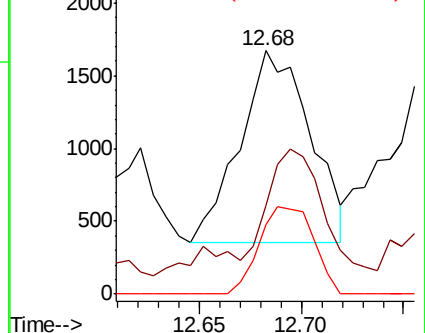
131 28.8 9.1 13.7#

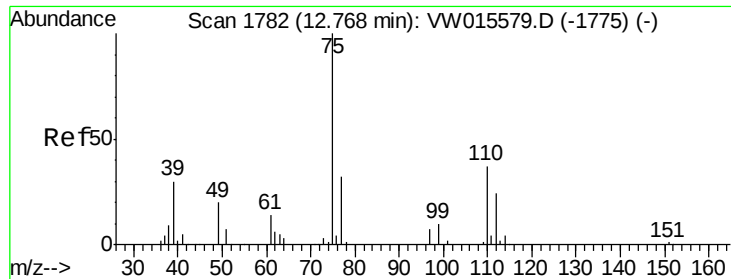


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V

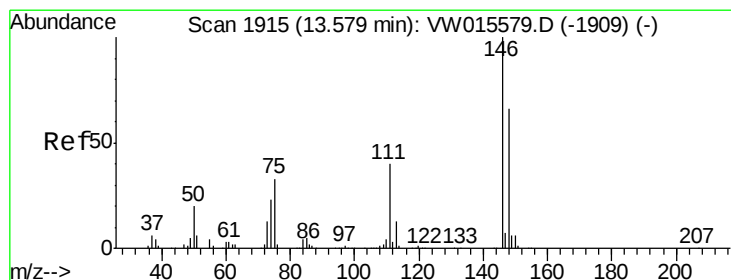
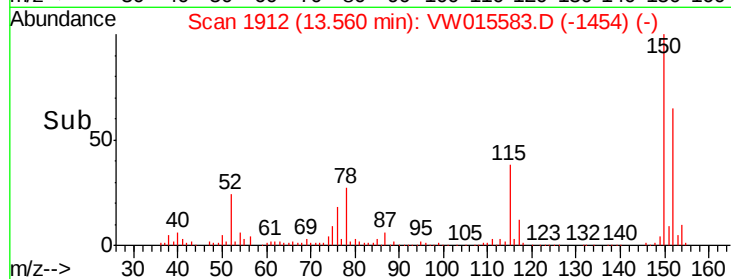
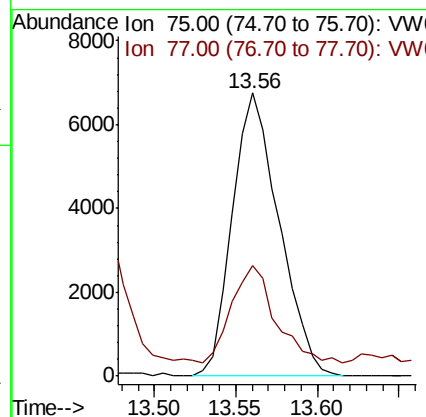
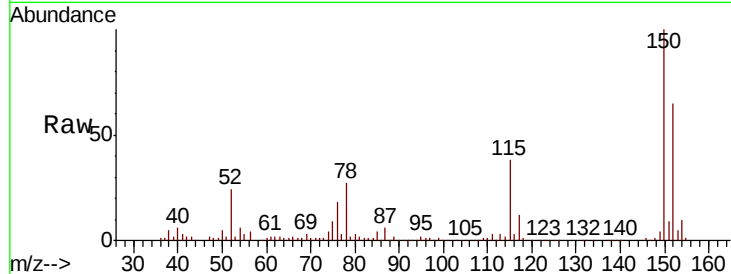




#59
 1,2,3-Trichloropropane
 Concen: 6.433 ug/L
 RT: 13.56 min Scan# 1912
 Delta R.T. 0.79 min
 Lab File: VW015583.D
 Acq: 11 Jun 2020 12:43

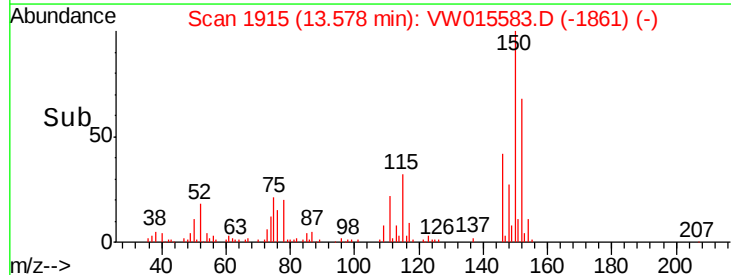
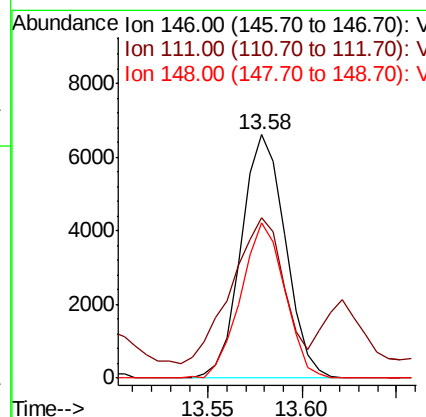
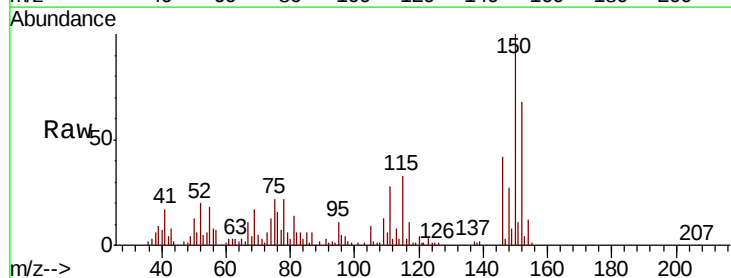
Instrument :
 MSVOA_W
 ClientSampled :
 BG2K1

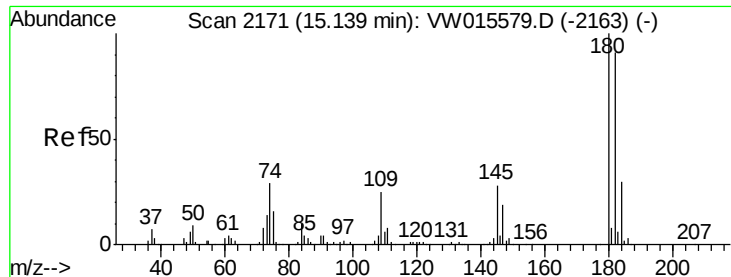
Tot Ion: 75 Resp: 13479
 Ion Ratio Lower Upper
 75 100
 77 32.5 25.9 38.9



#64
 1,4-Dichlorobenzene
 Concen: 2.251 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW015583.D
 Acq: 11 Jun 2020 12:43

Tgt Ion: 146 Resp: 10757
 Ion Ratio Lower Upper
 146 100
 111 66.0 28.1 52.1#
 148 63.6 43.3 80.3





#68
 1,2,4-trichlorobenzene
 Concen: 1.217 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.01 min
 Lab File: VW015583.D
 Acq: 11 Jun 2020 12:43

Instrument :
 MSVOA_W
 ClientSampleId :
 BG2K1

Tot Ion:180 Resp: 3310
 Ion Ratio Lower Upper
 180 100
 182 99.3 76.1 114.1
 145 175.8 25.2 37.8#

