

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW041919\
 Data File : VW010067.D
 Acq On : 19 Apr 2019 15:18
 Operator : SY/VA
 Sample : K2455-17
 Misc : 5.08G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Apr 20 03:54:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041519S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Apr 20 03:50:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	87859	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	47198	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	15325	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	22357	26.93	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	107.72%
7) Chloroethane-d5	2.89	69	19035	22.63	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	90.52%
10) 1,1-Dichloroethene-d2	4.00	63	42428	18.43	ug/L	-0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	73.72%
20) 2-Butanone-d5	7.09	46	24519	54.59	ug/L	0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	109.18%
24) Chloroform-d	7.64	84	55981	22.04	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	88.16%
26) 1,2-Dichloroethane-d4	8.31	65	36608	23.23	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	92.92%
29) Benzene-d6	8.27	84	106425	41.03	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	164.12%#
33) 1,2-Dichloropropane-d6	9.27	67	34045	41.21	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	164.84%#
37) Toluene-d8	10.32	98	71694	30.30	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	121.20%
38) trans-1,3-Dichloropropene-	10.58	79	13086	33.41	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	133.64%
39) 2-Hexanone-d5	10.93	63	18390	100.46	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	200.92%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	11230	14.53	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	58.12%
61) 1,2-Dichlorobenzene-d4	13.87	152	9566	16.60	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	66.40%#

Target Compounds

					Ovalue
13) Acetone	4.12	43	5453	13.653	ug/L 70
16) Methylene chloride	4.91	84	17304	10.877	ug/L 98
21) 2-Butanone	7.18	43	827	1.581	ug/L 80
23) Bromochloromethane	7.53	128	880	1.450	ug/L # 6
34) Benzene	8.32	78	2357	0.848	ug/L 100
35) Trichloroethene	9.07	95	710	0.982	ug/L # 43
41) Bromodichloromethane	9.63	83	931	0.927	ug/L # 36
43) 4-Methyl-2-pentanone	10.21	43	1307	2.158	ug/L # 64
46) 1,1,2-Trichloroethane	10.78	97	563	0.982	ug/L # 60
47) Tetrachloroethene	10.85	164	308	0.545	ug/L # 1
49) 2-Hexanone	10.96	43	1043	2.424	ug/L # 29
50) Dibromochloromethane	11.12	129	1739	2.555	ug/L # 29
51) 1,2-Dibromoethane	11.24	107	640	1.140	ug/L # 3
52) Chlorobenzene	11.66	112	1342	0.697	ug/L # 1
53) Ethylbenzene	11.73	91	13717715	4160.797	ug/L 95
55) o-xylene	12.08	106	650	0.562	ug/L # 13
57) Isopropylbenzene	12.46	105	696804	226.184	ug/L 98

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Quant Title : VOC Analysis
QLast Update : Sat Apr 20 03:50:46 2019
Response via : Initial Calibration

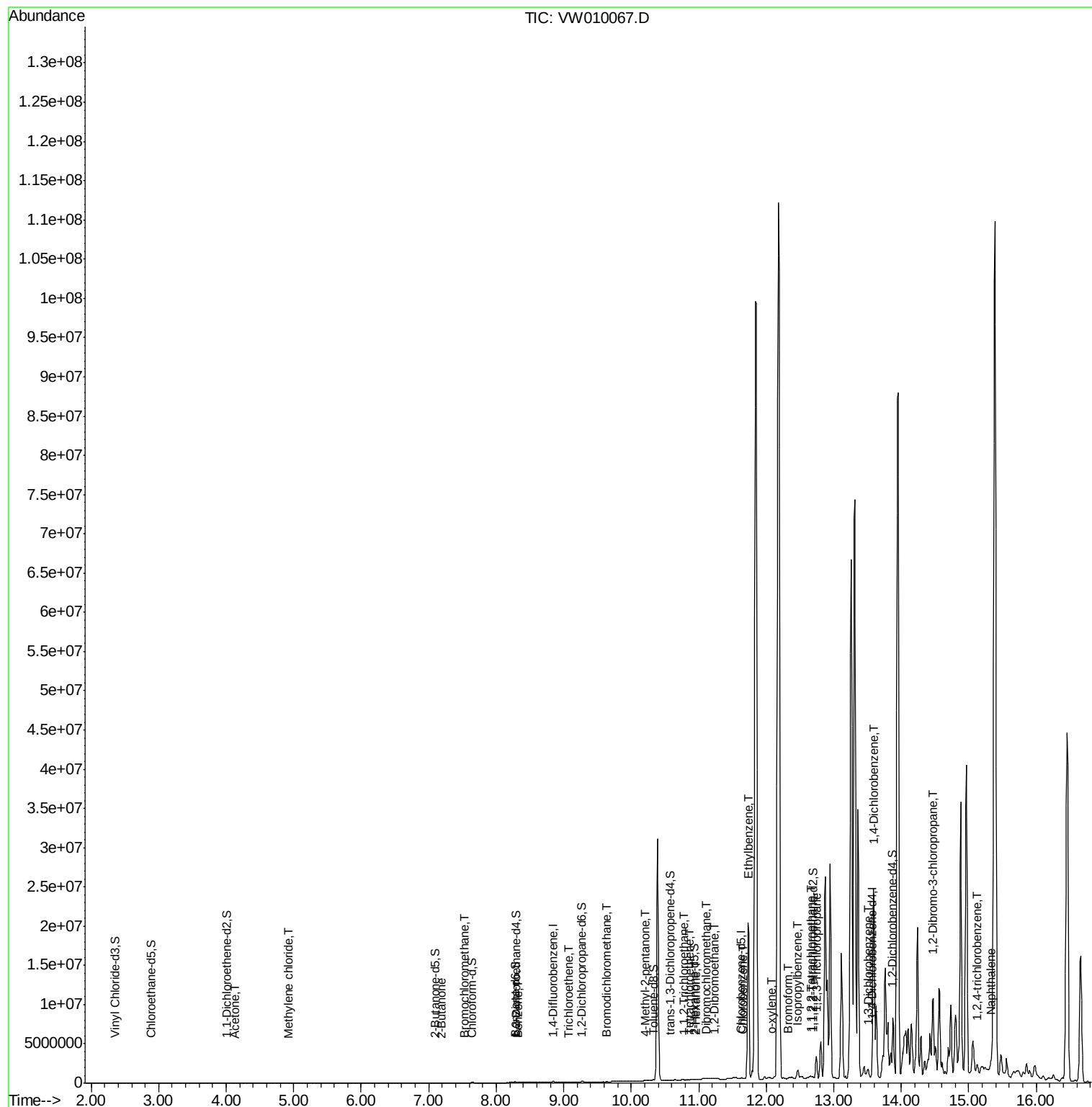
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) 1,1,2,2-Tetrachloroethane	12.68	83	20303	26.912	ug/L #	25
59) 1,2,3-Trichloropropane	12.74	75	21264	37.663	ug/L #	1
62) Bromoform	12.32	173	8180	30.395	ug/L #	45
63) 1,3-Dichlorobenzene	13.51	146	620	0.670	ug/L #	1
64) 1,4-Dichlorobenzene	13.59	146	565	0.568	ug/L #	1
66) 1,2-Dibromo-3-chloropropan	14.47	75	170861	1858.432	ug/L #	9
68) 1,2,4-trichlorobenzene	15.11	180	463	0.833	ug/L #	1
69) Naphthalene	15.32	128	226616	190.044	ug/L #	1

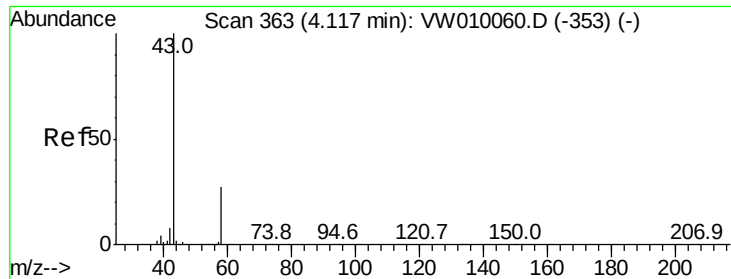
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW041919\
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MSVOA_W
ClientSampled :

Quant Time: Apr 20 03:54:05 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041519S.M
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QLast Update : Sat Apr 20 03:50:46 2019
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#13

Acetone

Concen: 13.653 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW010067.D

Acq: 19 Apr 2019 15:18

Instrument :

MSVOA_W

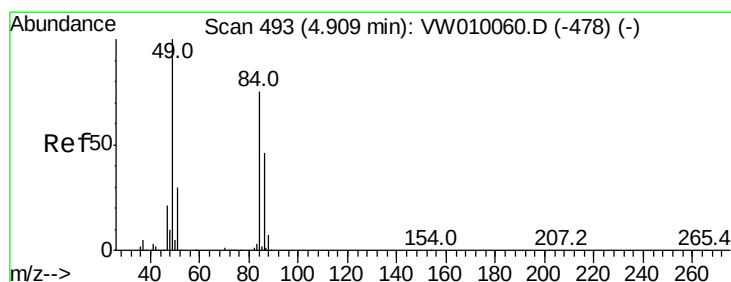
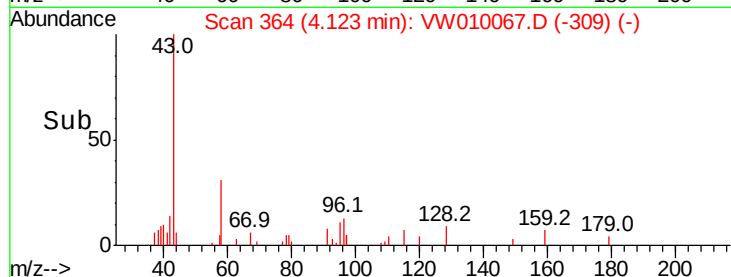
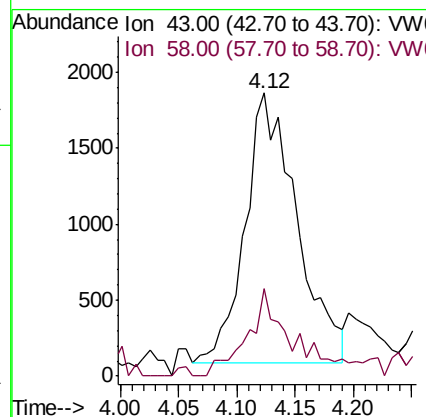
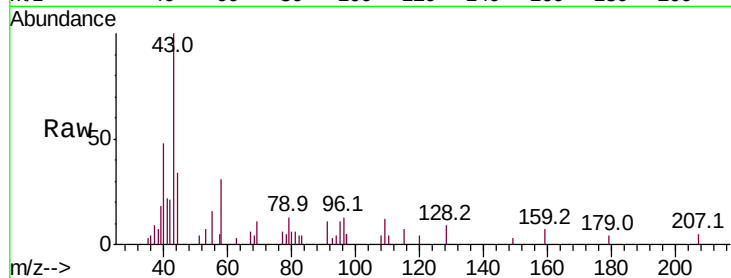
ClientSampleId :

Tot Ion: 43 Resp: 5453

Ion Ratio Lower Upper

43 100

58 12.1 0.0 56.2



#16

Methylene chloride

Concen: 10.877 ug/L

RT: 4.91 min Scan# 493

Delta R.T. -0.00 min

Lab File: VW010067.D

Acq: 19 Apr 2019 15:18

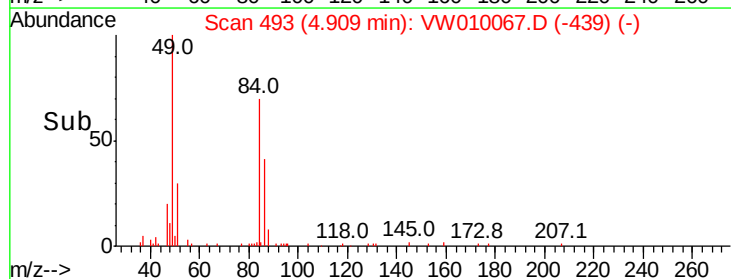
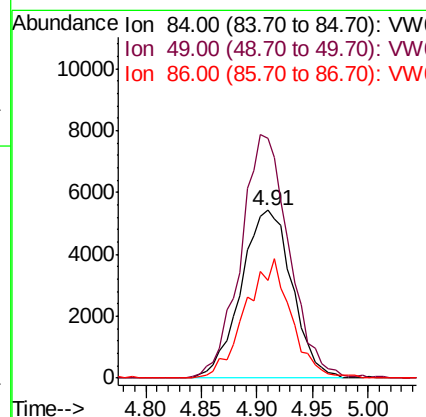
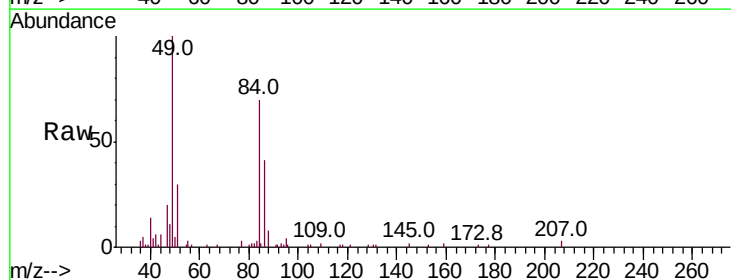
Tgt Ion: 84 Resp: 17304

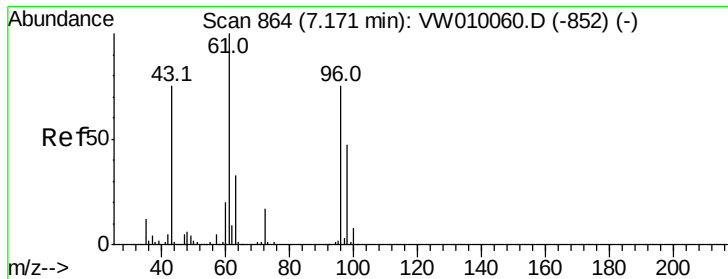
Ion Ratio Lower Upper

84 100

49 142.6 100.7 187.1

86 58.3 43.8 81.3





#21

2-Butanone

Concen: 1.581 ug/L

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW010067.D

Acq: 19 Apr 2019 15:18

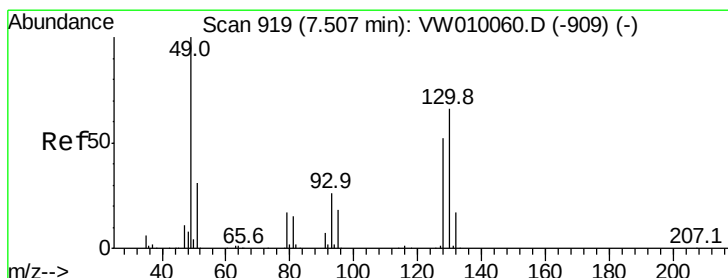
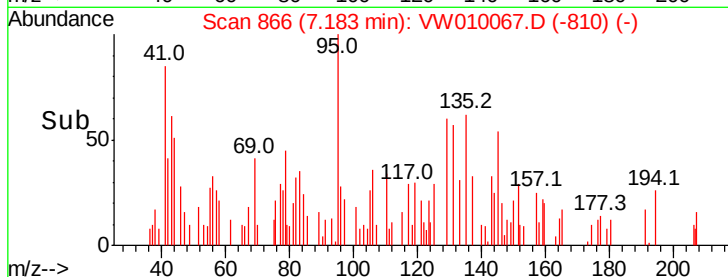
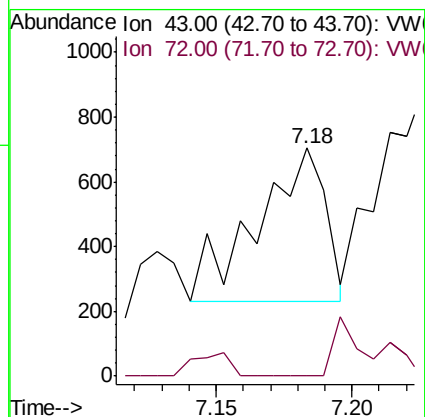
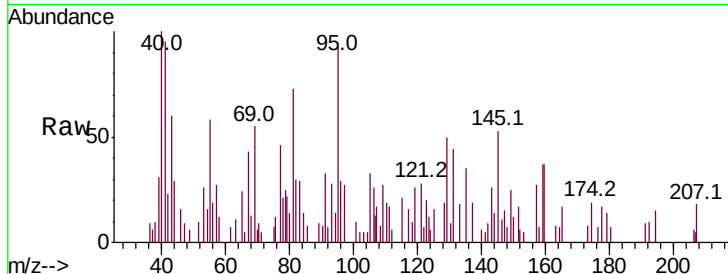
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 43 Resp: 827

Ion Ratio Lower Upper

43 100

72 14.1 11.9 35.7



#23

Bromochloromethane

Concen: 1.450 ug/L

RT: 7.53 min Scan# 923

Delta R.T. 0.02 min

Lab File: VW010067.D

Acq: 19 Apr 2019 15:18

Tgt Ion: 128 Resp: 880

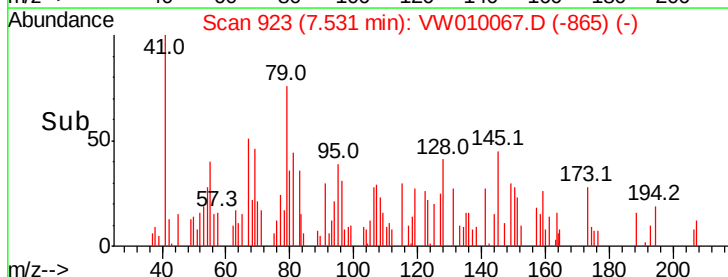
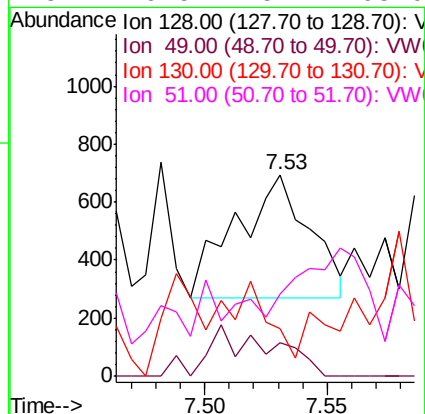
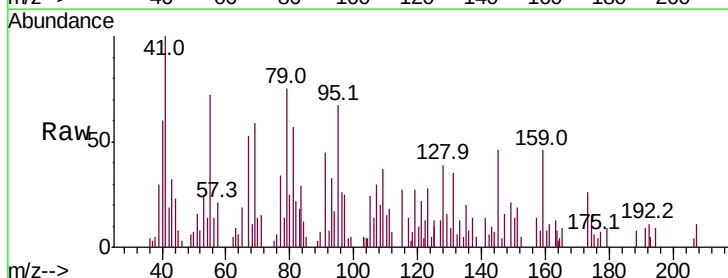
Ion Ratio Lower Upper

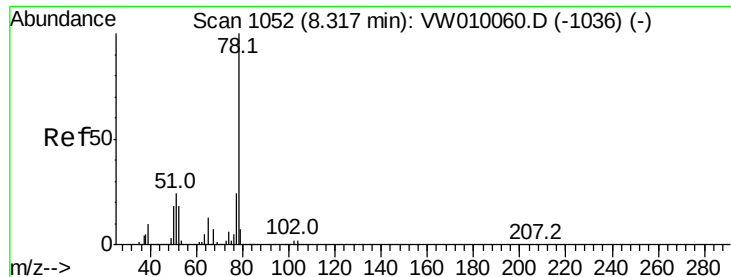
128 100

49 16.6 132.2 245.4#

130 23.5 91.5 169.9#

51 40.5 45.4 68.0#





#34

Benzene

Concen: 0.848 ug/L

RT: 8.32 min Scan# 1053

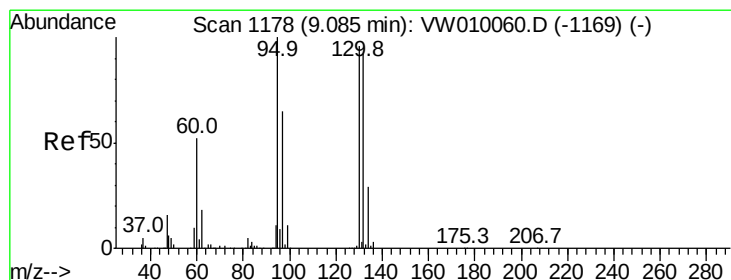
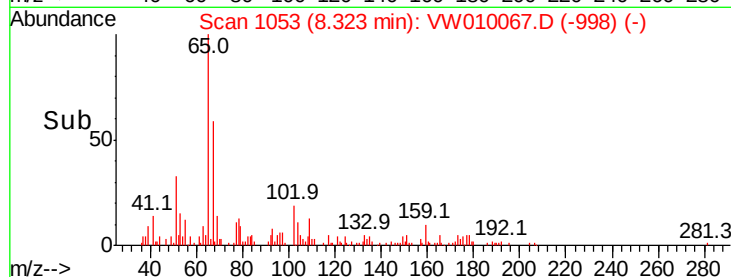
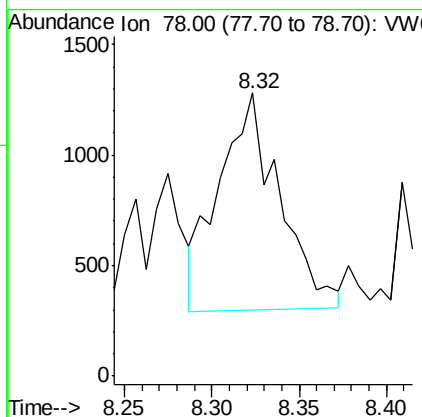
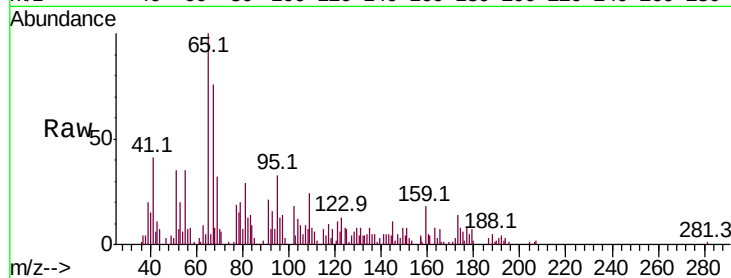
Delta R.T. 0.01 min

Lab File: VW010067.D

Acq: 19 Apr 2019 15:18

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion: 78 Resp: 2357



#35

Trichloroethene

Concen: 0.982 ug/L

RT: 9.07 min Scan# 1176

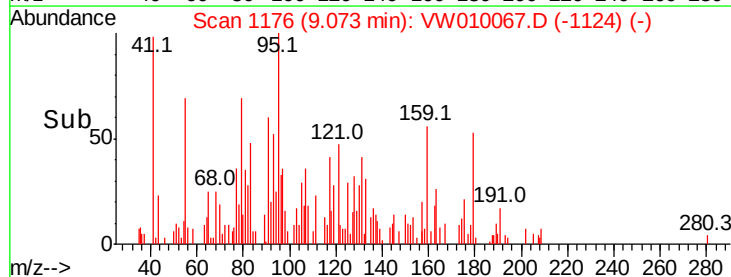
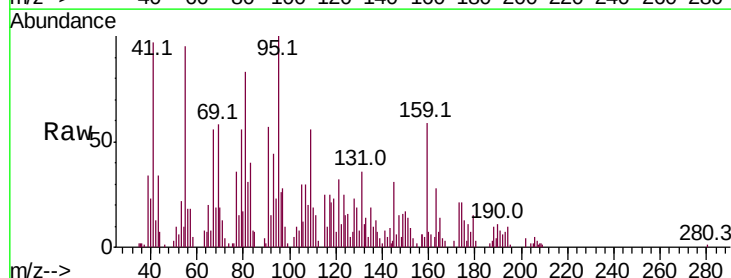
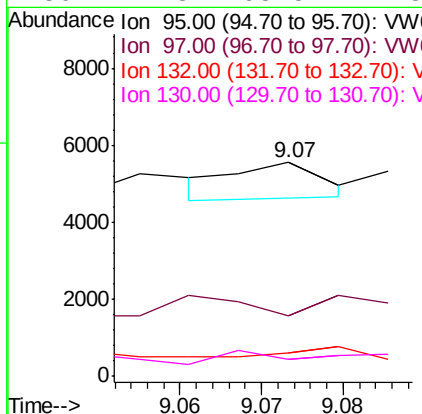
Delta R.T. -0.01 min

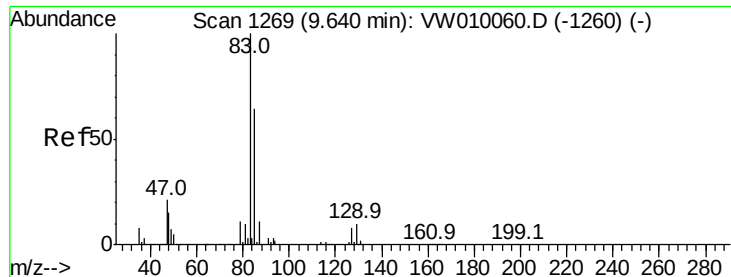
Lab File: VW010067.D

Acq: 19 Apr 2019 15:18

Tgt Ion: 95 Resp: 710

Ion	Ratio	Lower	Upper
95	100		
97	70.4	45.3	84.1
132	26.9	65.6	121.8#
130	21.8	68.5	127.3#





#41

Bromodichloromethane

Concen: 0.927 ug/L

RT: 9.63 min Scan# 1267

Delta R.T. -0.01 min

Lab File: VW010067.D

Acq: 19 Apr 2019 15:18

Instrument :

MSVOA_W

ClientSampleId :

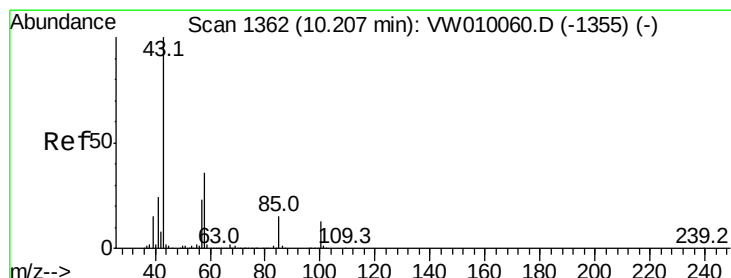
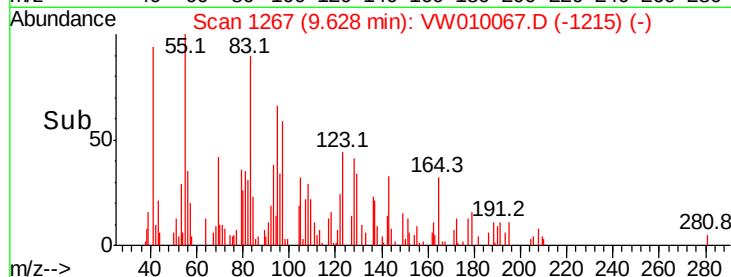
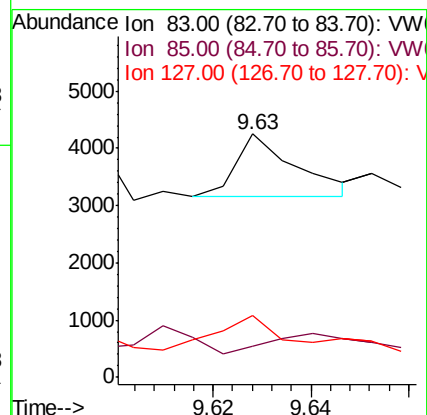
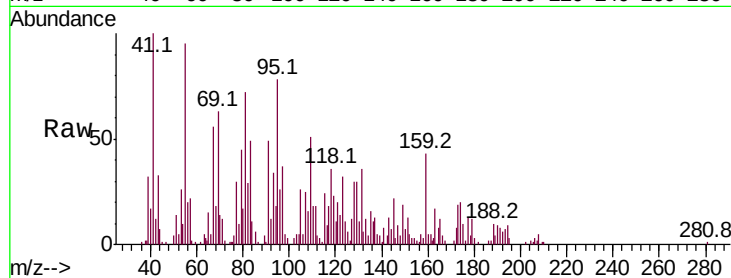
Tot Ion: 83 Resp: 931

Ion Ratio Lower Upper

83 100

85 13.0 45.1 83.9#

127 25.2 6.1 9.1#



#43

4-Methyl-2-pentanone

Concen: 2.158 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW010067.D

Acq: 19 Apr 2019 15:18

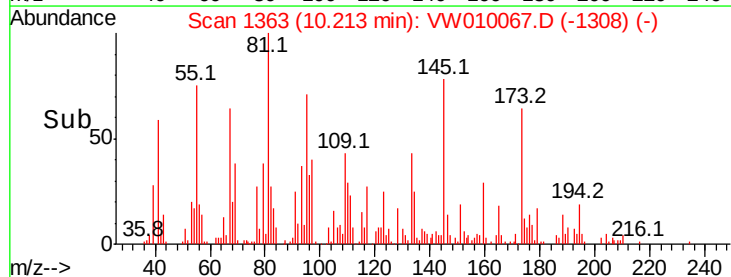
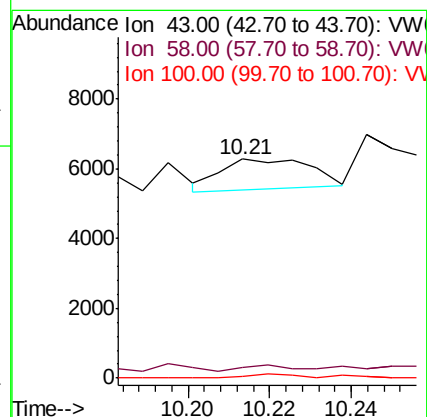
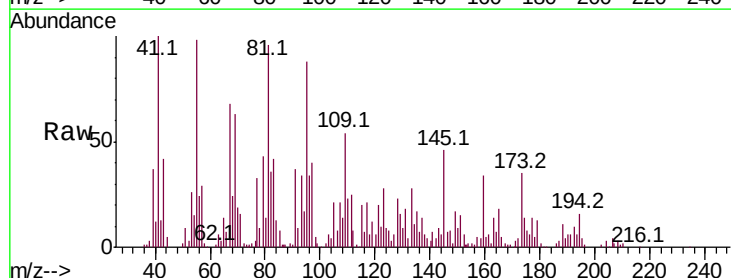
Tgt Ion: 43 Resp: 1307

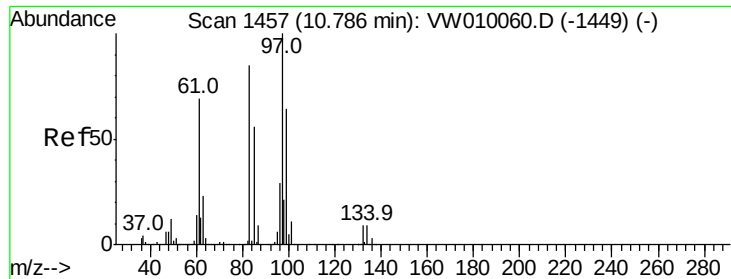
Ion Ratio Lower Upper

43 100

58 9.2 27.9 41.9#

100 7.0 10.5 15.7#





#46

1,1,2-Trichloroethane

Concen: 0.982 ug/L

RT: 10.78 min Scan# 1456

Delta R.T. -0.01 min

Lab File: VW010067.D

Acq: 19 Apr 2019 15:18

Instrument :

MSVOA_W

ClientSampled :

Tot Ion: 97 Resp: 563

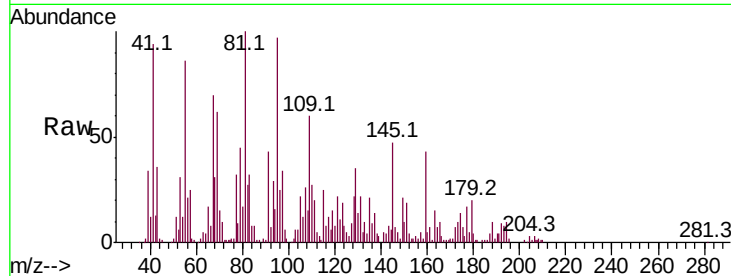
Ion Ratio Lower Upper

97 100

83 95.7 59.1 109.7

85 23.4 39.3 73.1#

99 5.2 43.6 81.0#

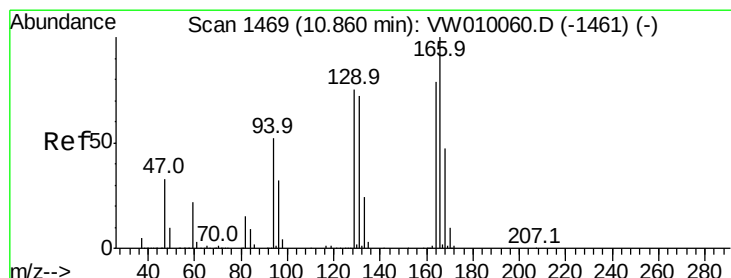
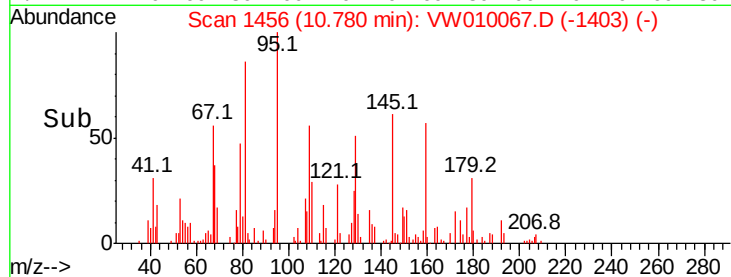
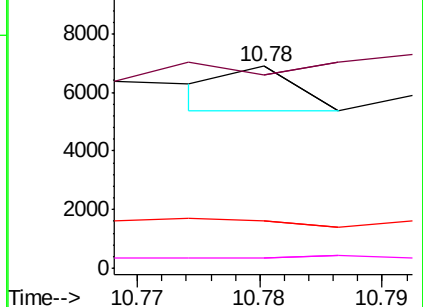


Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 0.545 ug/L

RT: 10.85 min Scan# 1468

Delta R.T. -0.01 min

Lab File: VW010067.D

Acq: 19 Apr 2019 15:18

Tgt Ion: 164 Resp: 308

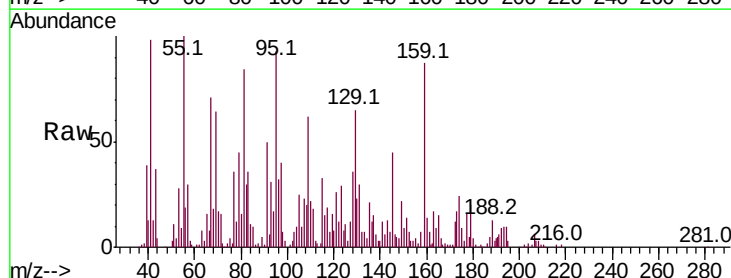
Ion Ratio Lower Upper

164 100

129 739.8 66.8 124.2#

131 348.1 65.2 121.0#

166 43.4 89.0 165.2#

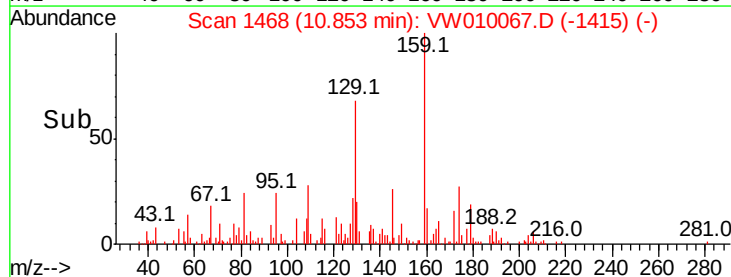
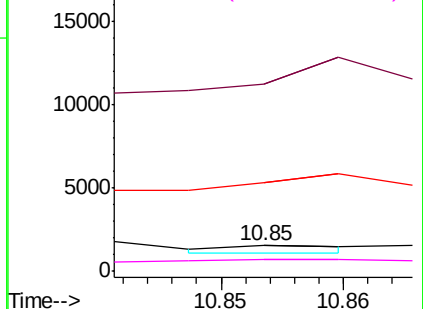


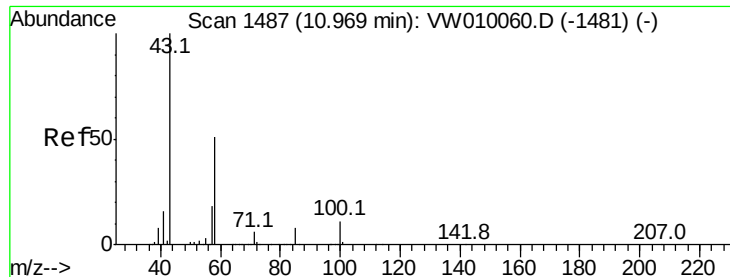
Abundance Ion 164.00 (163.70 to 164.70): V

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: 2.424 ug/L

RT: 10.96 min Scan# 1486

Delta R.T. -0.01 min

Lab File: VW010067.D

Acq: 19 Apr 2019 15:18

Instrument :

MSVOA_W

ClientSampled :

Tot Ion: 43 Resp: 1043

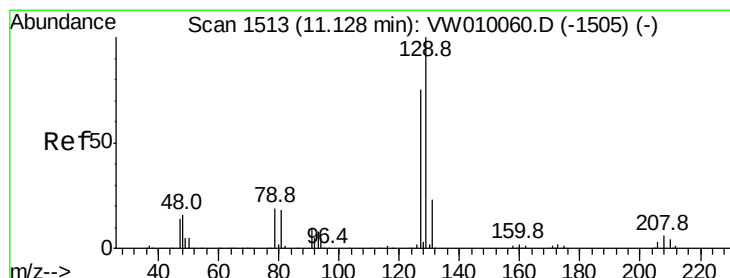
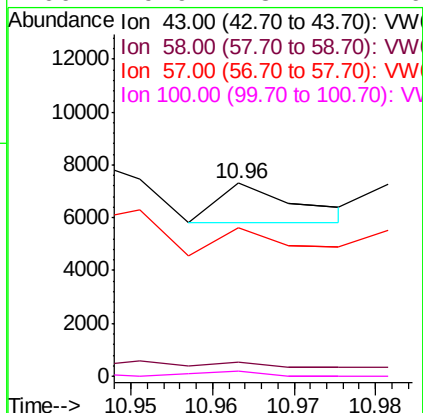
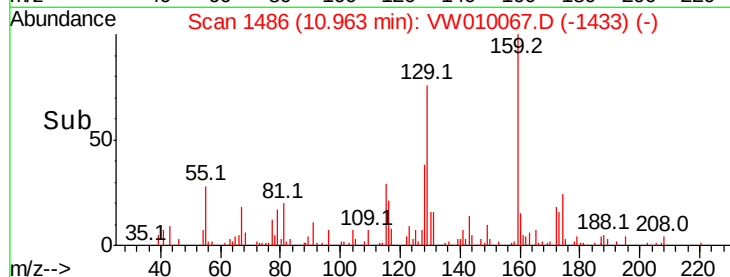
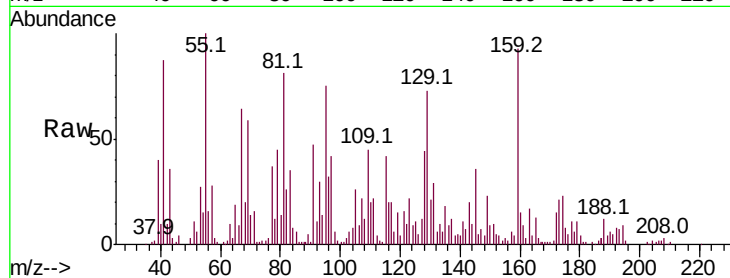
Ion Ratio Lower Upper

43 100

58 0.0 39.8 59.8#

57 65.4 14.1 21.1#

100 9.9 8.4 12.6



#50

Dibromochloromethane

Concen: 2.555 ug/L

RT: 11.12 min Scan# 1511

Delta R.T. -0.01 min

Lab File: VW010067.D

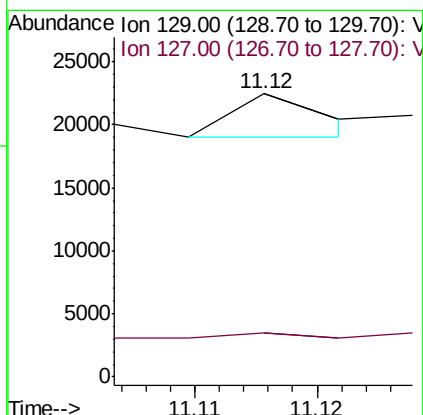
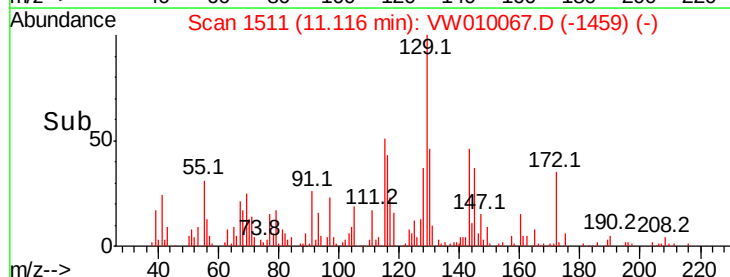
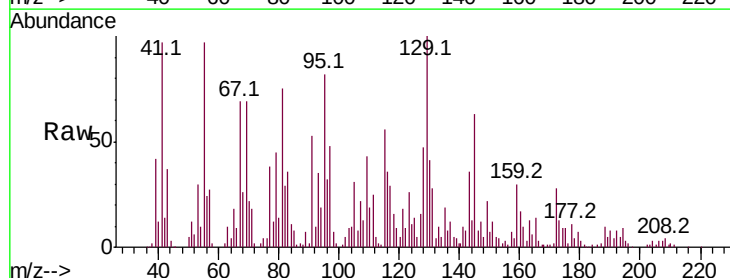
Acq: 19 Apr 2019 15:18

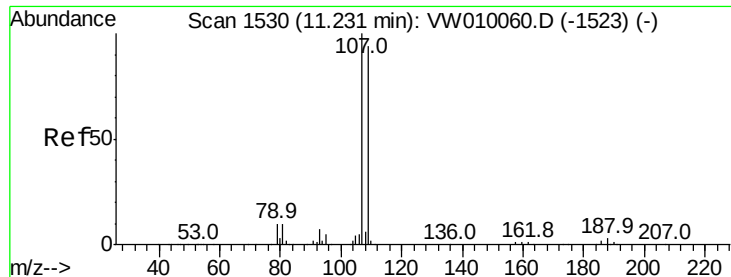
Tgt Ion: 129 Resp: 1739

Ion Ratio Lower Upper

129 100

127 15.5 53.5 99.3#





#51

1,2-Dibromoethane

Concen: 1.140 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.01 min

Lab File: VW010067.D

Acq: 19 Apr 2019 15:18

Instrument :

MSVOA_W

ClientSampled :

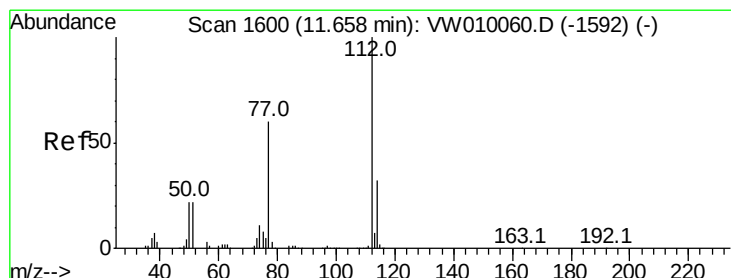
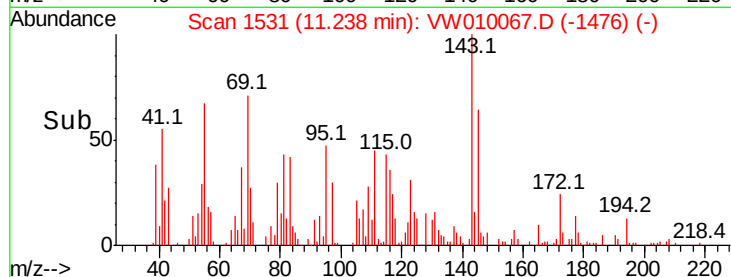
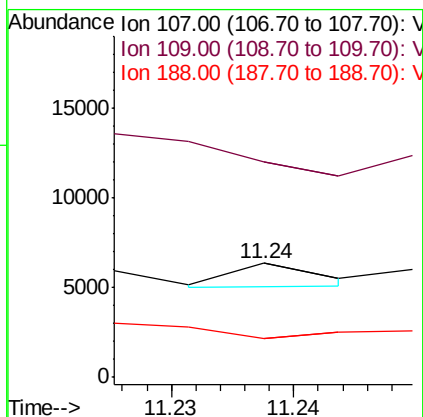
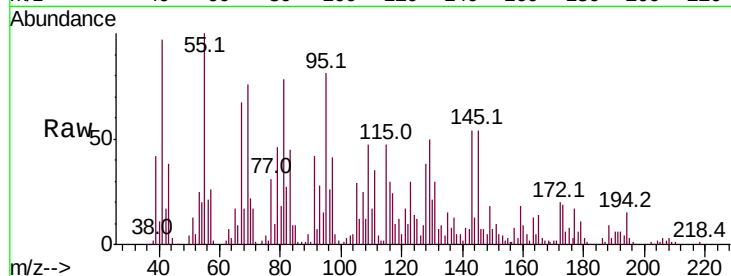
Tot Ion:107 Resp: 640

Ion Ratio Lower Upper

107 100

109 189.1 66.4 123.4#

188 34.2 2.7 4.1#



#52

Chlorobenzene

Concen: 0.697 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW010067.D

Acq: 19 Apr 2019 15:18

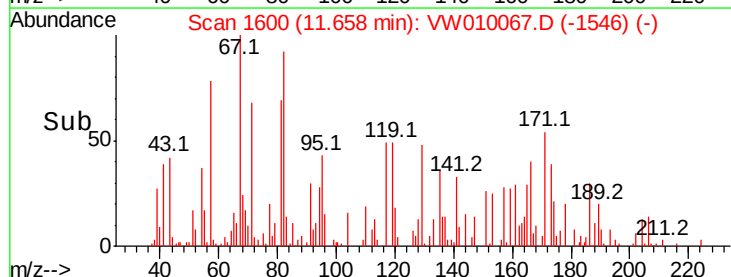
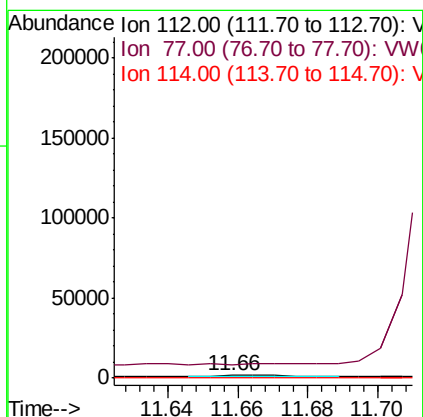
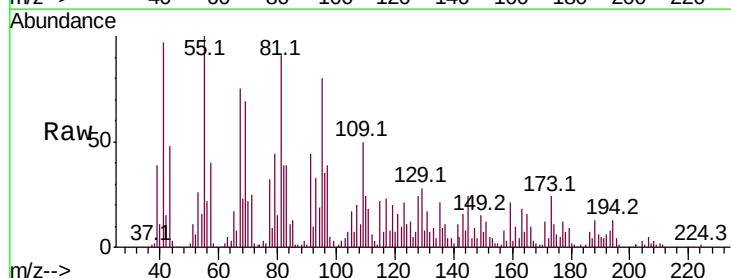
Tgt Ion:112 Resp: 1342

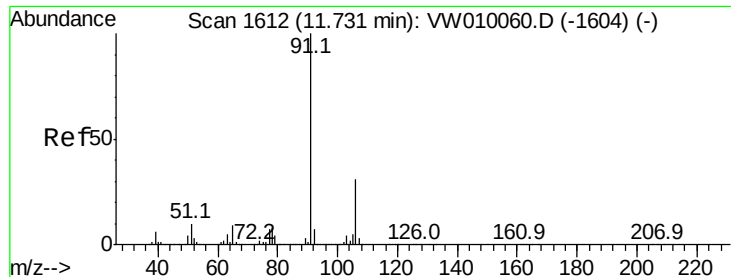
Ion Ratio Lower Upper

112 100

77 494.4 50.2 75.4#

114 22.7 22.7 42.3#





#53

Ethylbenzene

Concen: 4160.797 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW010067.D

Acq: 19 Apr 2019 15:18

Instrument :

MSVOA_W

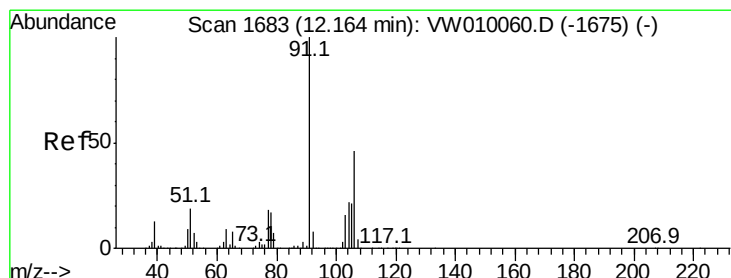
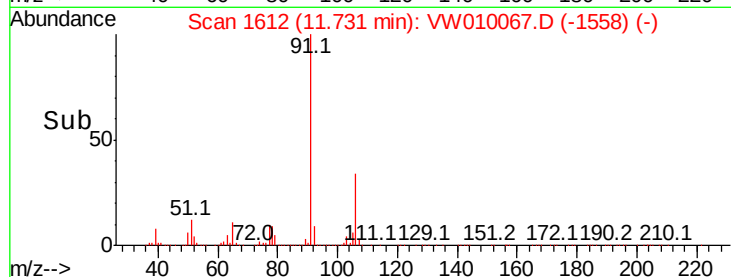
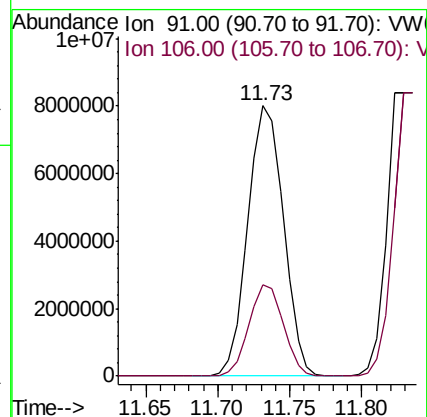
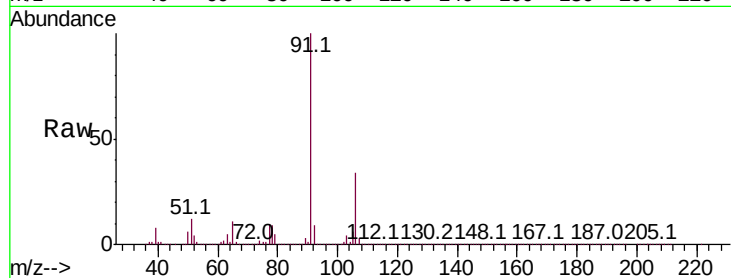
ClientSampleId :

Tot Ion: 91 Resp:13717715

Ion Ratio Lower Upper

91 100

106 33.7 21.8 40.4



#55

o-xylene

Concen: 0.562 ug/L

RT: 12.08 min Scan# 1670

Delta R.T. -0.08 min

Lab File: VW010067.D

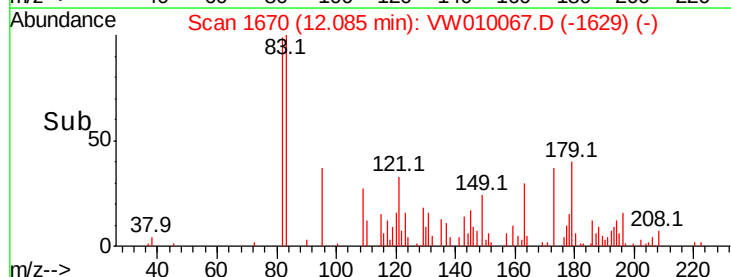
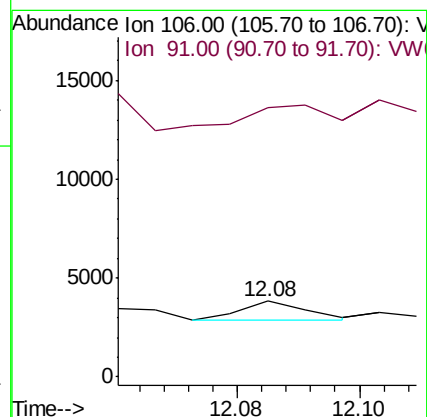
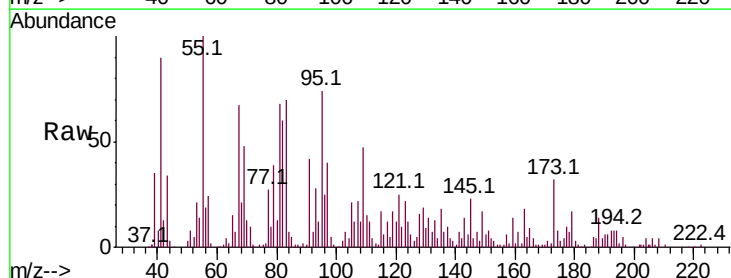
Acq: 19 Apr 2019 15:18

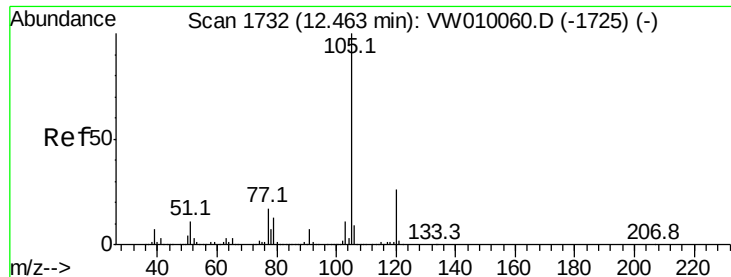
Tgt Ion:106 Resp: 650

Ion Ratio Lower Upper

106 100

91 356.8 152.2 282.7#





#57

Isopropylbenzene

Concen: 226.184 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW010067.D

Acq: 19 Apr 2019 15:18

Instrument :

MSVOA_W

ClientSampled :

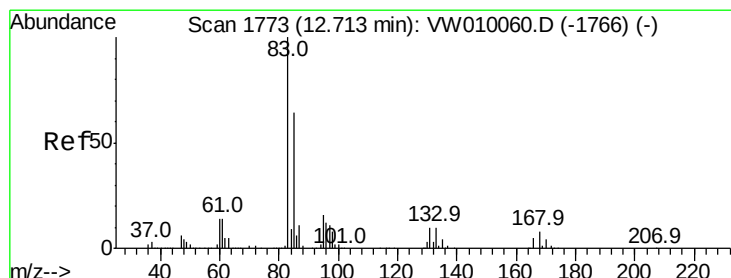
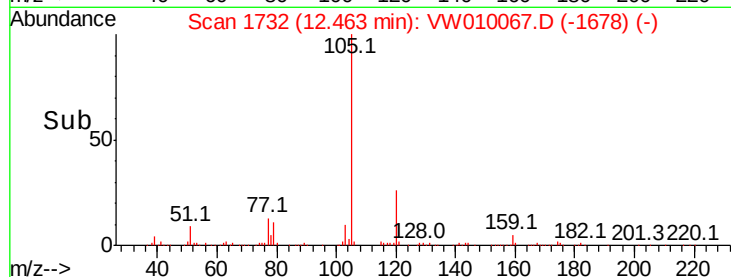
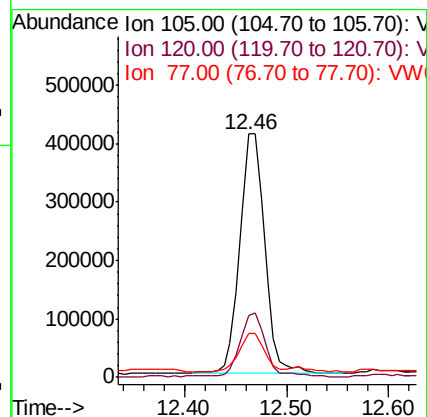
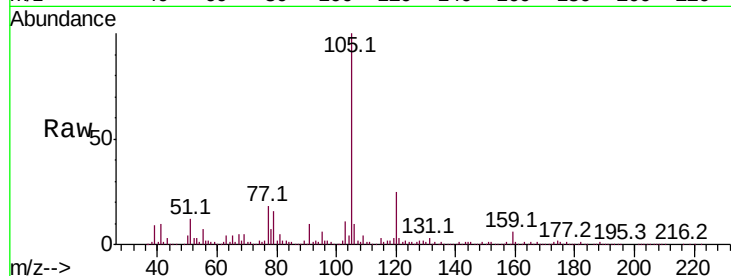
Tot Ion:105 Resp: 696804

Ion Ratio Lower Upper

105 100

120 27.0 20.6 30.8

77 15.8 13.4 20.2



#58

1,1,2,2-Tetrachloroethane

Concen: 26.912 ug/L

RT: 12.68 min Scan# 1767

Delta R.T. -0.04 min

Lab File: VW010067.D

Acq: 19 Apr 2019 15:18

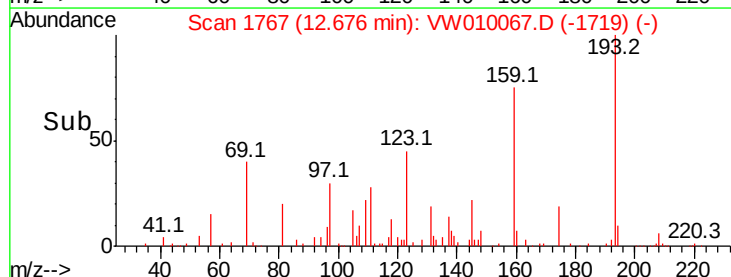
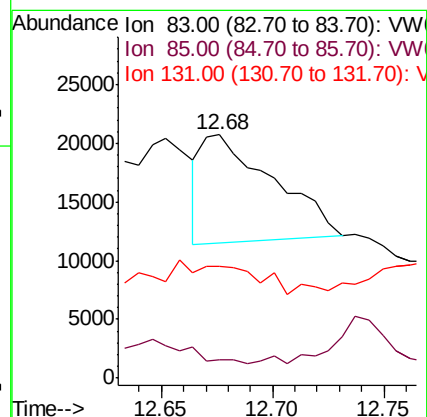
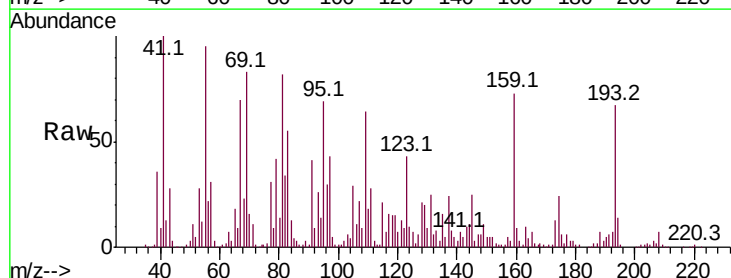
Tgt Ion: 83 Resp: 20303

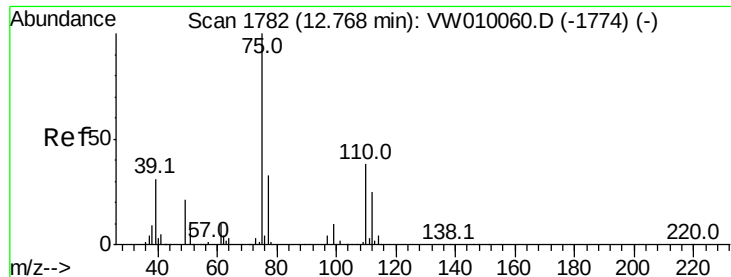
Ion Ratio Lower Upper

83 100

85 7.6 44.1 81.9#

131 46.2 8.3 12.5#





#59

1,2,3-Trichloropropane

Concen: 37.663 ug/L

RT: 12.74 min Scan# 1778

Delta R.T. -0.02 min

Lab File: VW010067.D

Acq: 19 Apr 2019 15:18

Instrument :

MSVOA_W

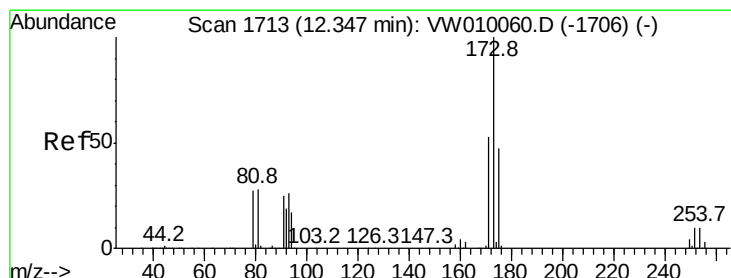
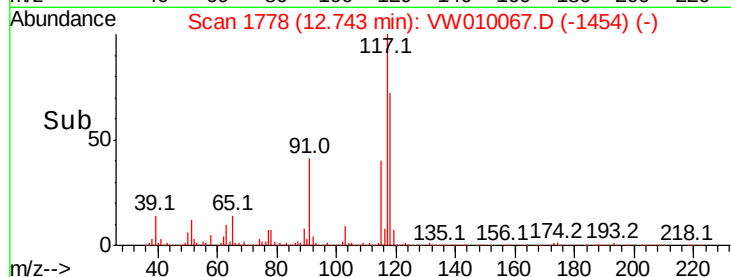
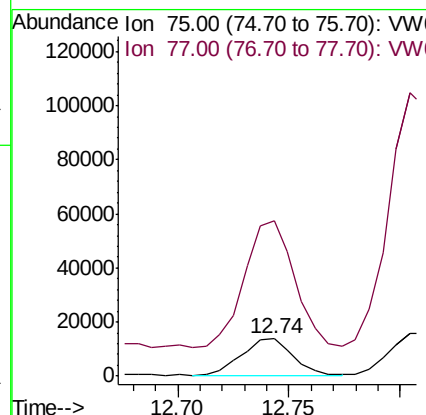
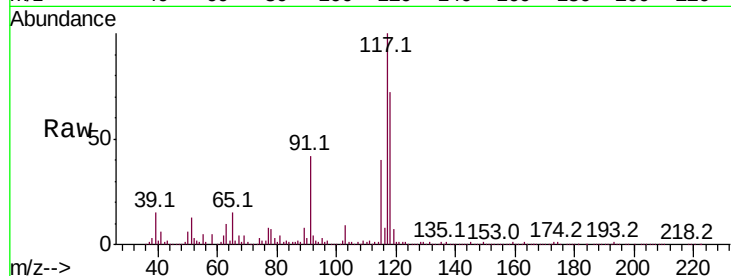
ClientSampled :

Tot Ion: 75 Resp: 21264

Ion Ratio Lower Upper

75 100

77 349.2 25.8 38.6#



#62

Bromoform

Concen: 30.395 ug/L

RT: 12.32 min Scan# 1708

Delta R.T. -0.03 min

Lab File: VW010067.D

Acq: 19 Apr 2019 15:18

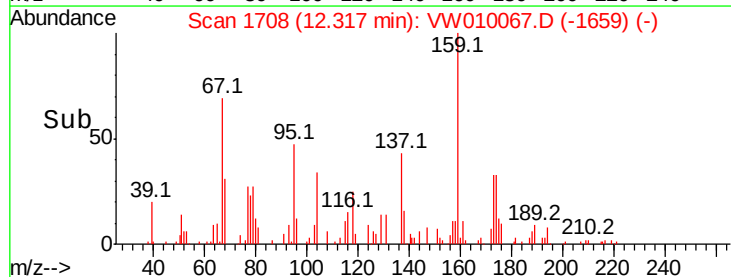
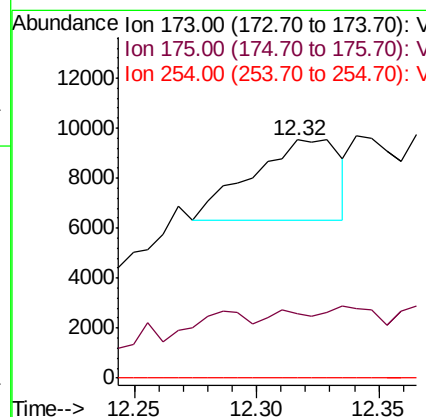
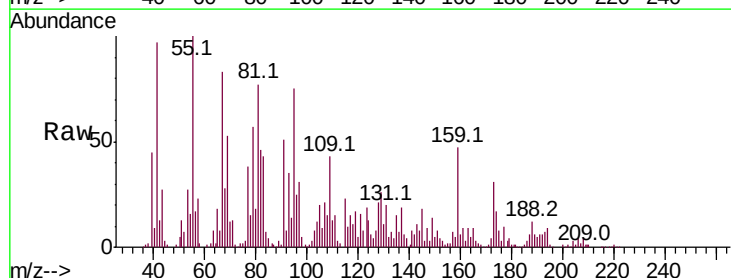
Tgt Ion: 173 Resp: 8180

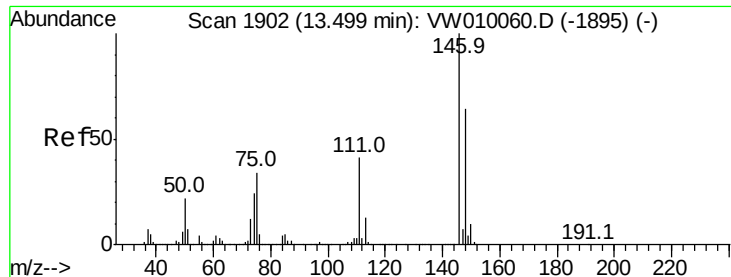
Ion Ratio Lower Upper

173 100

175 6.6 38.4 57.6#

254 0.0 7.7 11.5#





#63

1,3-Dichlorobenzene

Concen: 0.670 ug/L

RT: 13.51 min Scan# 1903

Delta R.T. 0.01 min

Lab File: VW010067.D

Acq: 19 Apr 2019 15:18

Instrument :

MSVOA_W

ClientSampleId :

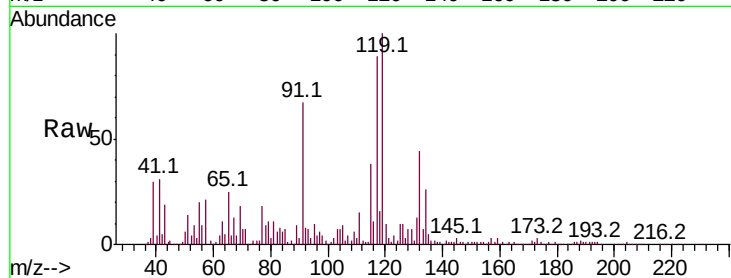
Tot Ion:146 Resp: 620

Ion Ratio Lower Upper

146 100

111 1628.4 29.3 54.3#

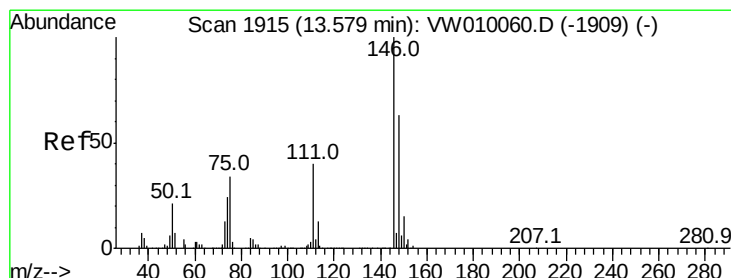
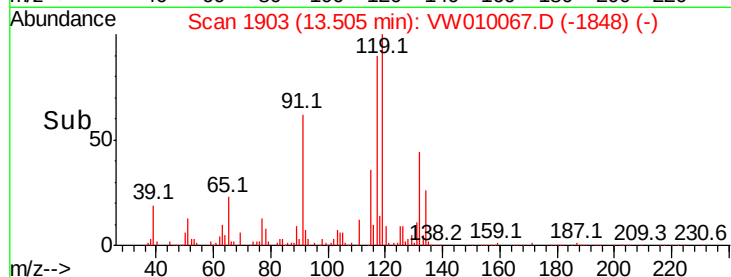
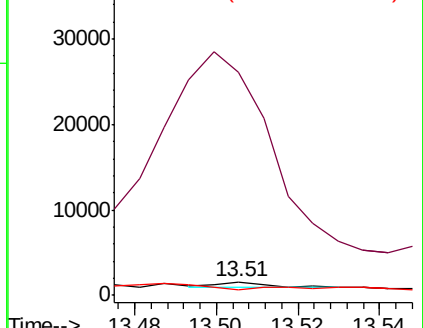
148 45.0 44.1 81.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#64

1,4-Dichlorobenzene

Concen: 0.568 ug/L

RT: 13.59 min Scan# 1917

Delta R.T. 0.01 min

Lab File: VW010067.D

Acq: 19 Apr 2019 15:18

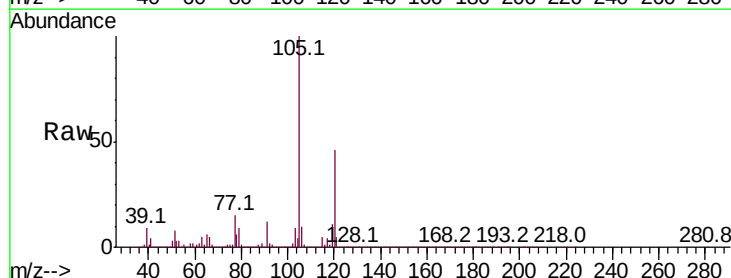
Tgt Ion:146 Resp: 565

Ion Ratio Lower Upper

146 100

111 1014.9 28.0 52.0#

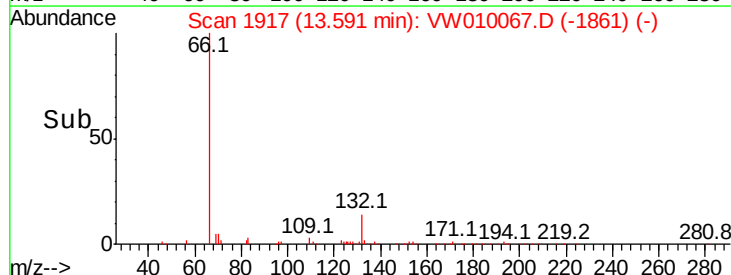
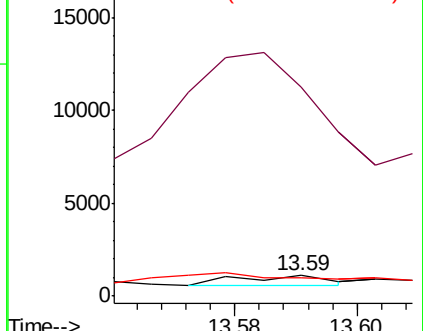
148 88.2 44.1 81.9#

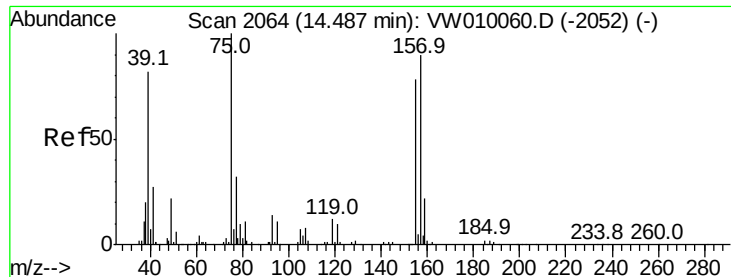


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

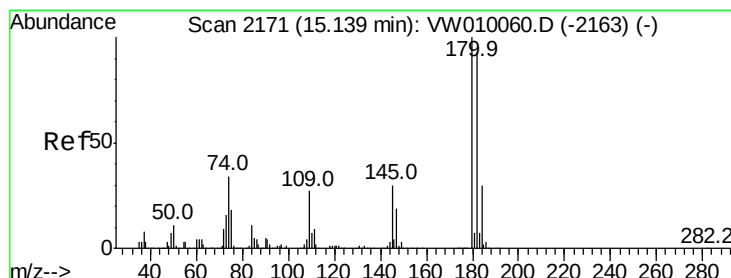
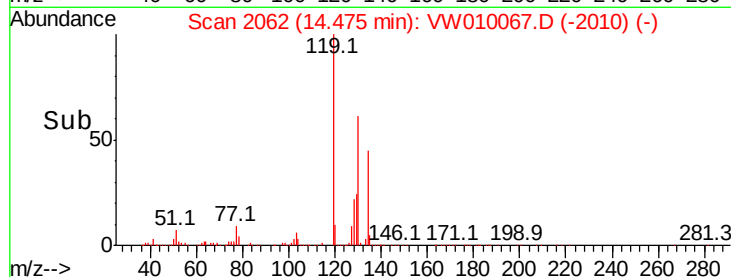
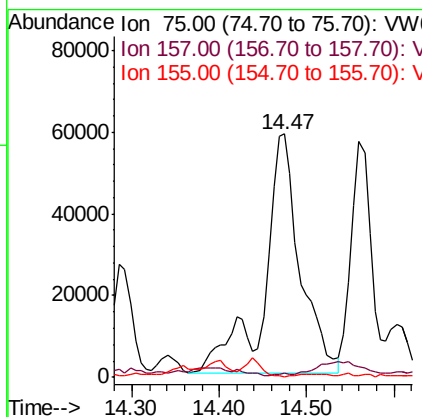
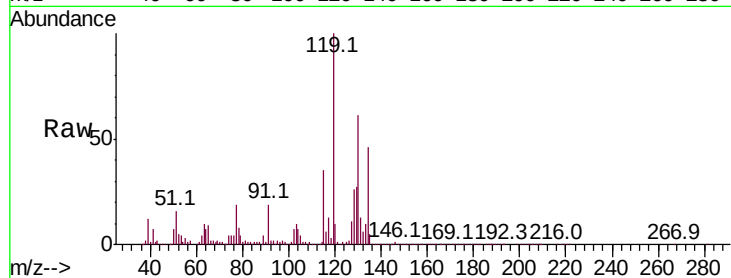




#66
 1,2-Dibromo-3-chloropropane
 Concen: 1858.432 ug/L
 RT: 14.47 min Scan# 2062
 Delta R.T. -0.01 min
 Lab File: VW010067.D
 Acq: 19 Apr 2019 15:18

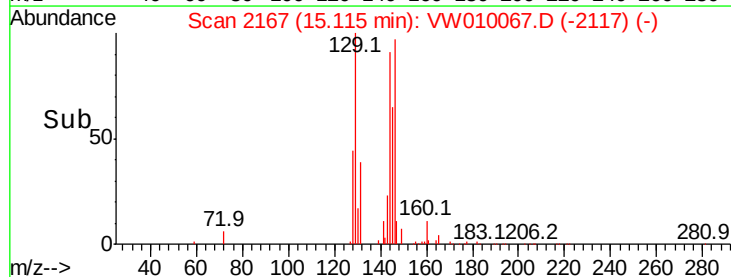
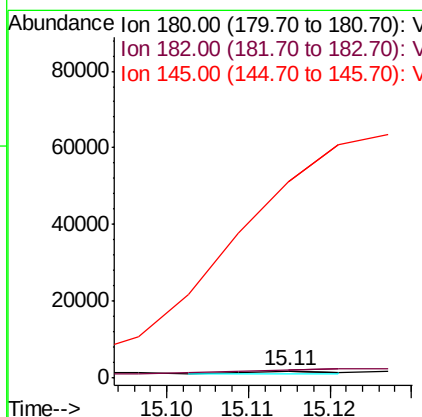
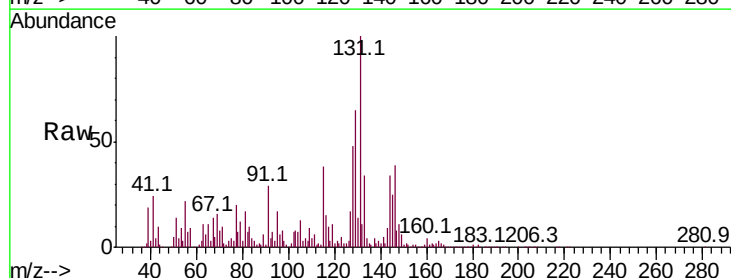
Instrument :
 MSVOA_W
 ClientSampleId :

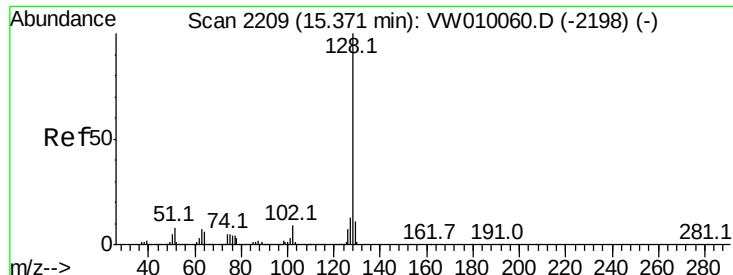
Tot Ion: 75 Resp: 170861
 Ion Ratio Lower Upper
 75 100
 157 1.8 73.3 109.9#
 155 0.4 58.6 88.0#



#68
 1,2,4-trichlorobenzene
 Concen: 0.833 ug/L
 RT: 15.11 min Scan# 2167
 Delta R.T. -0.02 min
 Lab File: VW010067.D
 Acq: 19 Apr 2019 15:18

Tgt Ion: 180 Resp: 463
 Ion Ratio Lower Upper
 180 100
 182 1074.9 75.4 113.0#
 145 33548.6 25.0 37.4#





#69

Naphthalene

Concen: 190.044 ug/L

RT: 15.32 min Scan# 2201

Delta R.T. -0.05 min

Lab File: VW010067.D

Acq: 19 Apr 2019 15:18

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion:128 Resp: 226616

Ion Ratio Lower Upper

128 100

129 113.8 8.6 12.8#

127 28.1 10.6 16.0#

