

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070518\
 Data File : VX003201.D
 Acq On : 06 Jul 2018 05:01
 Operator : JC/MD
 Sample : J3844-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP022MW357-180702

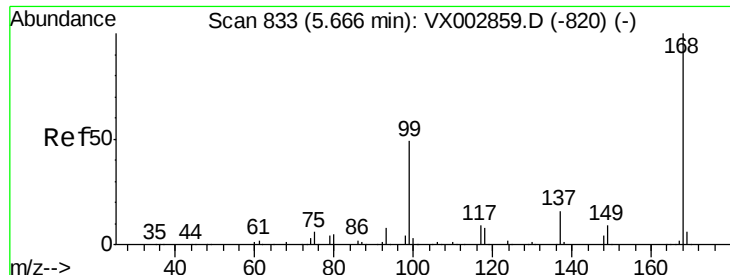
Quant Time: Jul 06 11:23:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	269552	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	374785	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	354631	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	205031	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	173814	46.65	ug/l	0.00
Spiked Amount			Recovery	=	93.30%	
35) Dibromofluoromethane	5.51	113	145632	49.07	ug/l	0.00
Spiked Amount			Recovery	=	98.14%	
50) Toluene-d8	8.72	98	524051	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	
62) 4-Bromofluorobenzene	11.14	95	190548	45.59	ug/l	0.00
Spiked Amount			Recovery	=	91.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	44751	14.68	ug/l	93
11) Tert butyl alcohol	3.08	59	4830	6.51	ug/l #	86
16) Acetone	2.45	43	5981	3.88	ug/l	92
21) trans-1,2-Dichloroethene	3.17	96	2430	0.84	ug/l	90
24) 1,1-Dichloroethane	3.70	63	21413	3.93	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	55159	16.99	ug/l	86
40) Benzene	6.14	78	35681	2.99	ug/l	98
42) 1,2-Dichloroethane	6.20	62	7885	1.63	ug/l	90
44) Trichloroethene	7.21	130	2340	0.66	ug/l	89
49) 1,4-Dioxane	7.76	88	1044	14.03	ug/l #	91
64) Tetrachloroethene	9.34	164	3567	0.90	ug/l	96
65) Chlorobenzene	10.14	112	1647828	182.94	ug/l	98
69) o-Xylene	10.70	106	1421	0.25	ug/l	94
73) Isopropylbenzene	11.02	105	3296	0.24	ug/l	98
79) 2-Chlorotoluene	11.42	91	3136	0.33	ug/l	99
85) sec-Butylbenzene	11.95	105	2909	0.21	ug/l	92
87) 1,3-Dichlorobenzene	12.03	146	4734	0.66	ug/l	97
88) 1,4-Dichlorobenzene	12.10	146	16614	2.25	ug/l	86
91) 1,2-Dichlorobenzene	12.40	146	15477	2.14	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

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ClientSampleId :

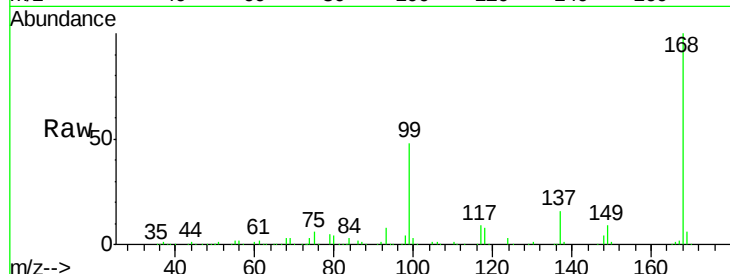
WP022MW357-180702

Tot Ion:168 Resp: 269552

Ion Ratio Lower Upper

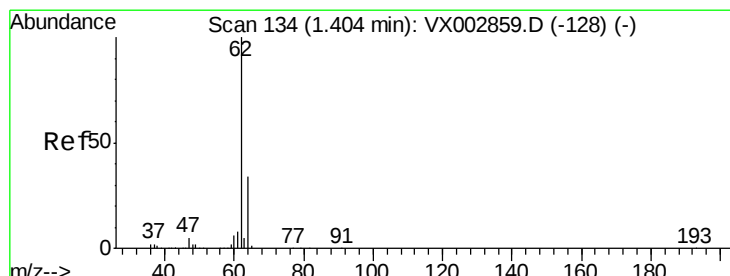
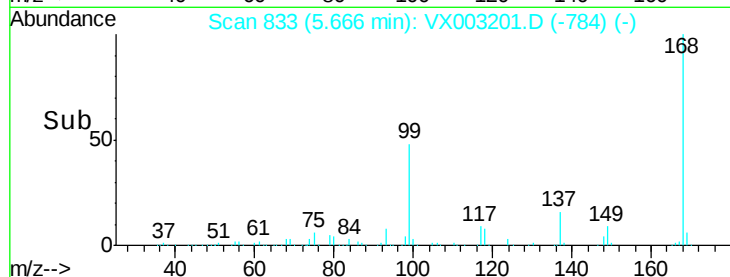
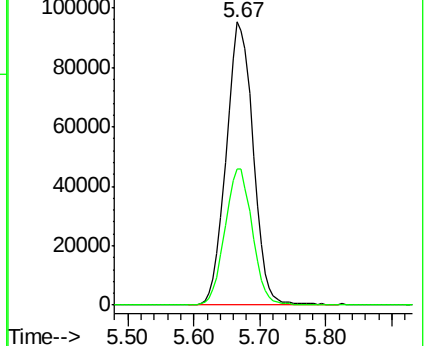
168 100

99 48.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 14.68 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX003201.D

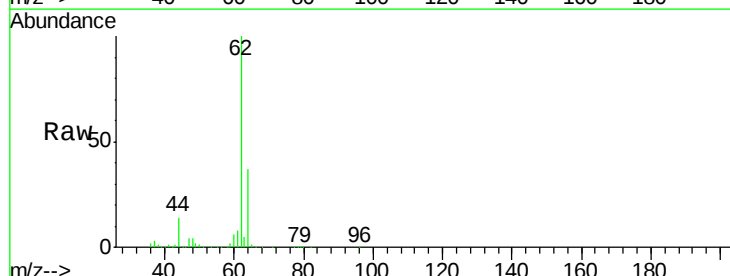
Acq: 06 Jul 2018 05:01

Tgt Ion: 62 Resp: 44751

Ion Ratio Lower Upper

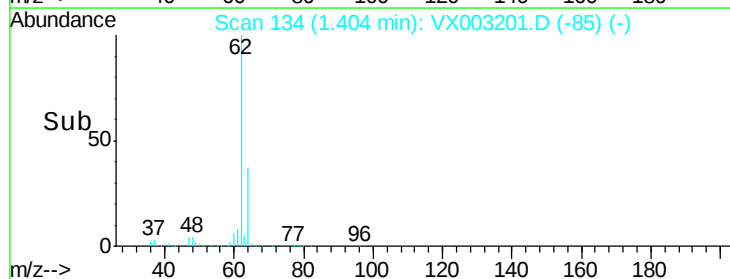
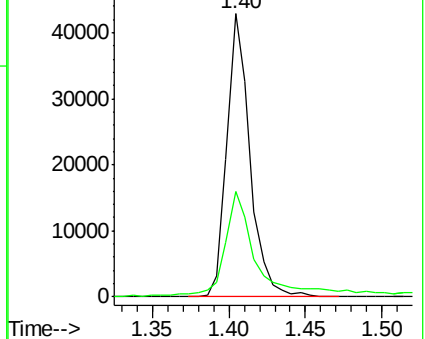
62 100

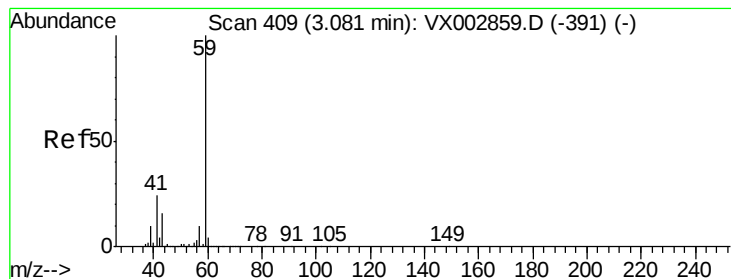
64 35.8 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#11

Tert butyl alcohol

Concen: 6.51 ug/l

RT: 3.08 min Scan# 409

Delta R.T. 0.00 min

Lab File: VX003201.D

Acq: 06 Jul 2018 05:01

Instrument :

MSVOA_X

ClientSampleId :

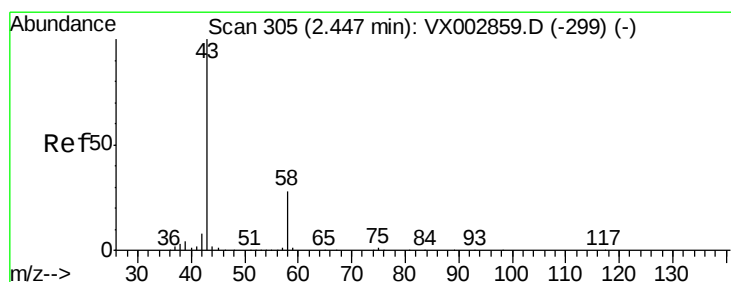
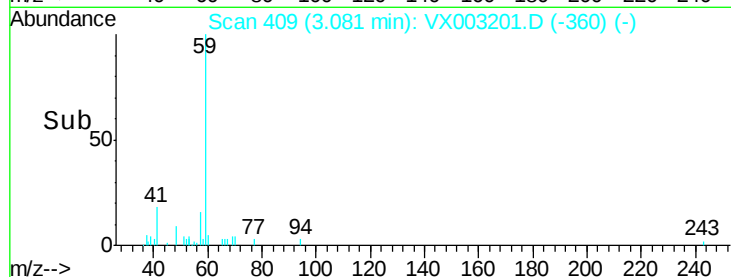
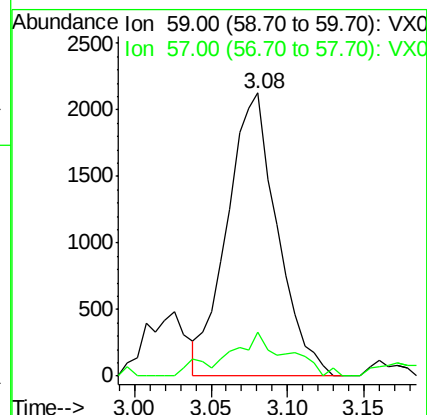
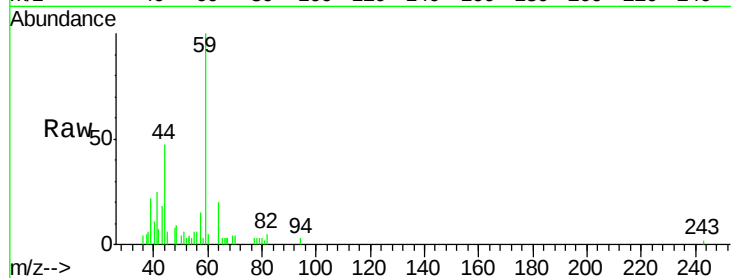
WP022MW357-180702

Tot Ion: 59 Resp: 4830

Ion Ratio Lower Upper

59 100

57 15.5 8.2 12.2#



#16

Acetone

Concen: 3.88 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003201.D

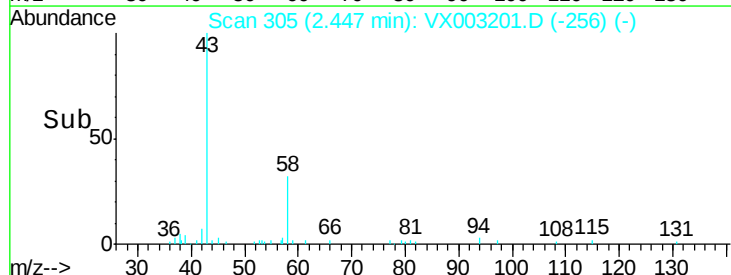
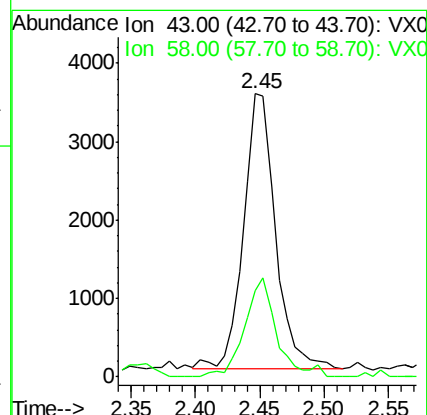
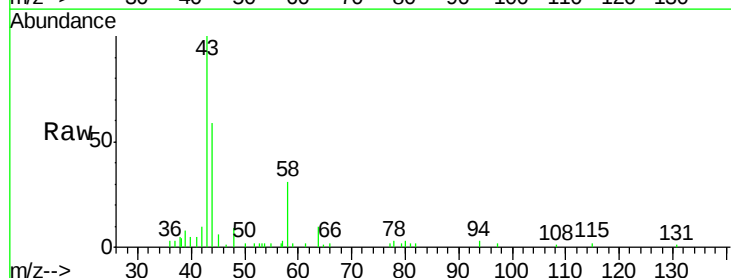
Acq: 06 Jul 2018 05:01

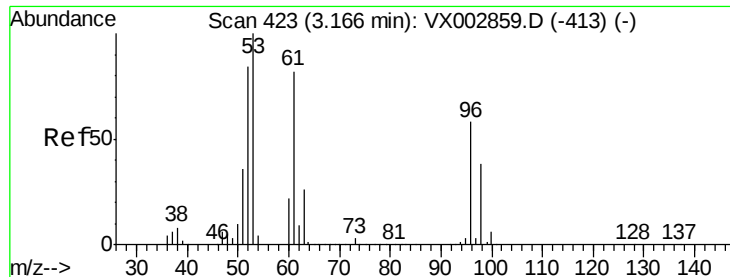
Tgt Ion: 43 Resp: 5981

Ion Ratio Lower Upper

43 100

58 31.6 22.1 33.1





#21

trans-1,2-Dichloroethene

Concen: 0.84 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.00 min

Lab File: VX003201.D

Acq: 06 Jul 2018 05:01

Instrument :

MSVOA_X

ClientSampleId :

WP022MW357-180702

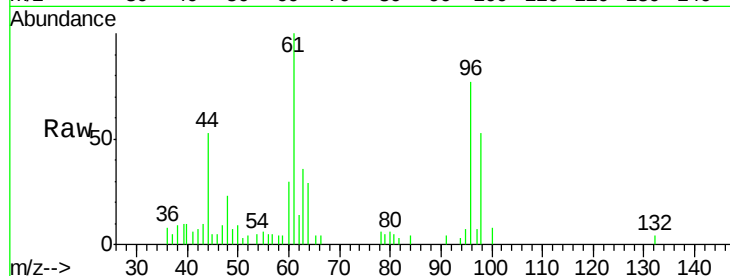
Tot Ion: 96 Resp: 2430

Ion Ratio Lower Upper

96 100

61 130.3 117.0 175.4

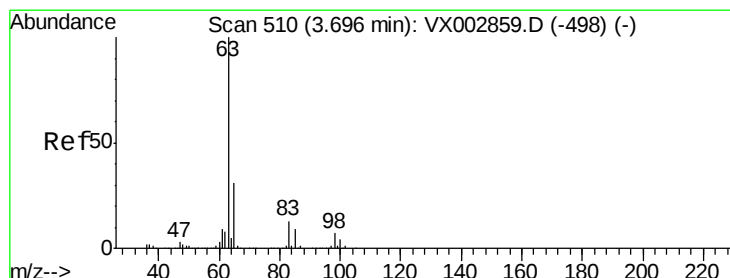
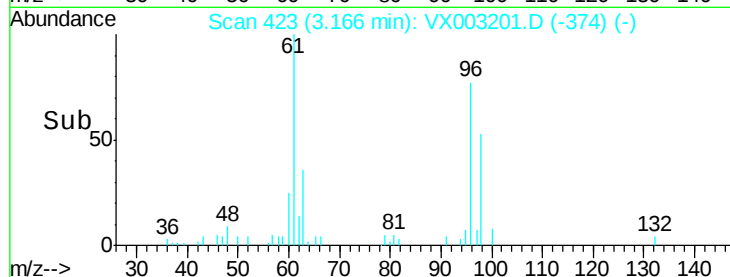
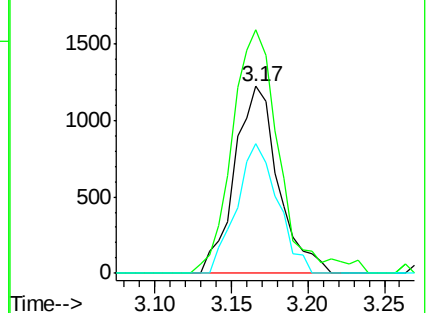
98 69.4 52.4 78.6



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#24

1,1-Dichloroethane

Concen: 3.93 ug/l

RT: 3.70 min Scan# 510

Delta R.T. 0.00 min

Lab File: VX003201.D

Acq: 06 Jul 2018 05:01

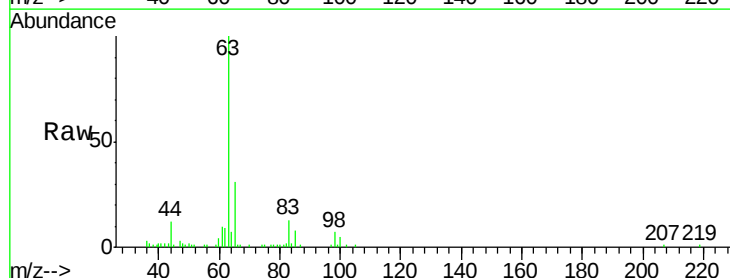
Tgt Ion: 63 Resp: 21413

Ion Ratio Lower Upper

63 100

98 6.6 3.4 10.2

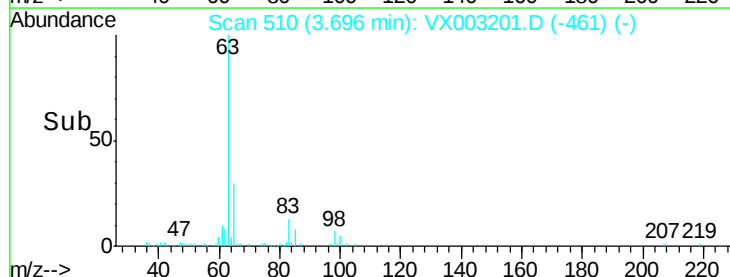
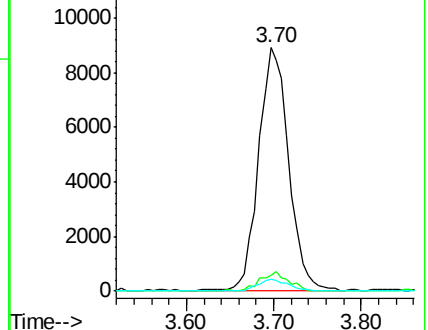
100 4.9 2.0 6.0

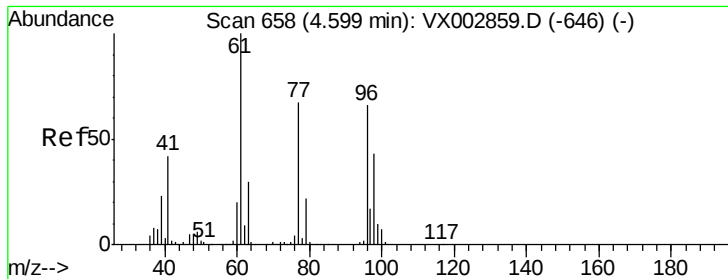


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#27

cis-1,2-Dichloroethene

Concen: 16.99 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX003201.D

Acq: 06 Jul 2018 05:01

Instrument :

MSVOA_X

ClientSampleId :

WP022MW357-180702

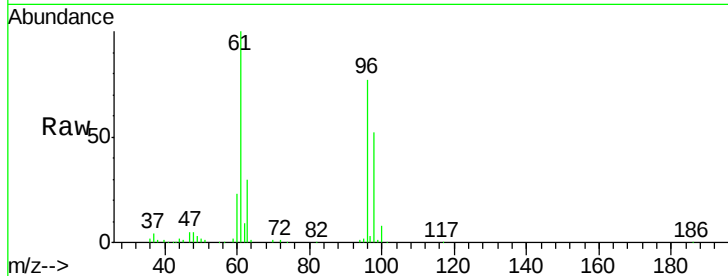
Tot Ion: 96 Resp: 55159

Ion Ratio Lower Upper

96 100

61 138.7 0.0 330.2

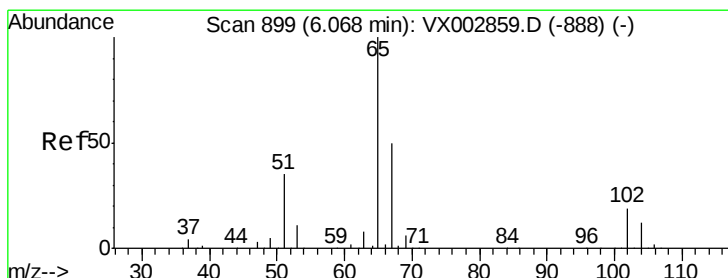
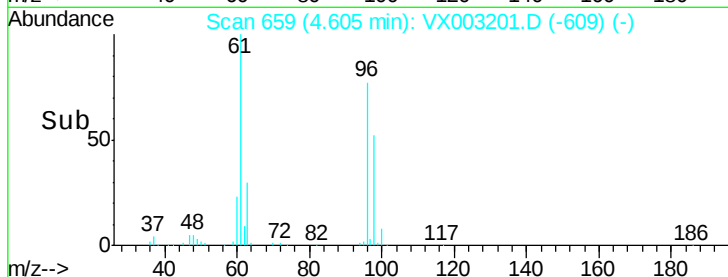
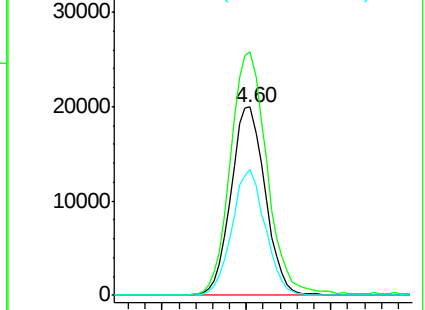
98 64.6 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.65 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003201.D

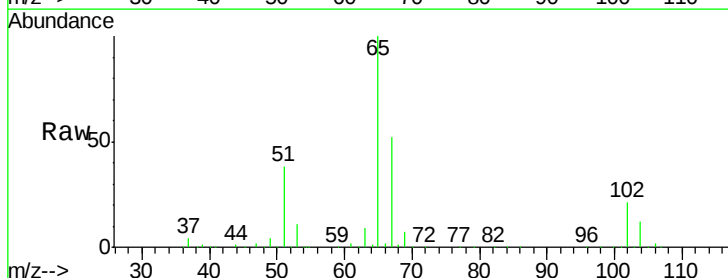
Acq: 06 Jul 2018 05:01

Tgt Ion: 65 Resp: 173814

Ion Ratio Lower Upper

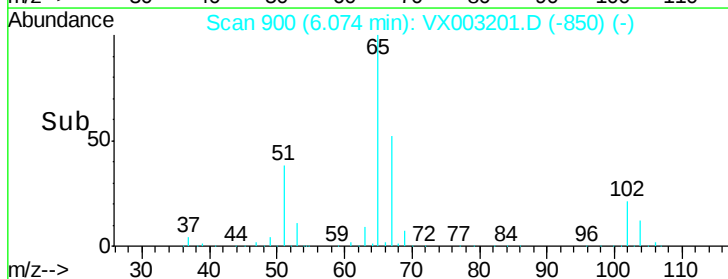
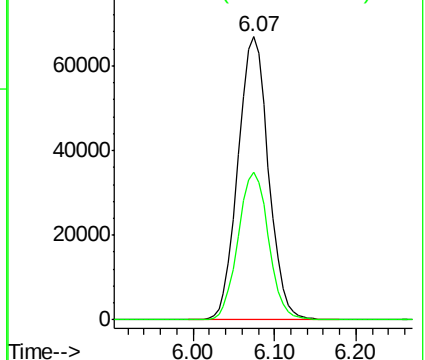
65 100

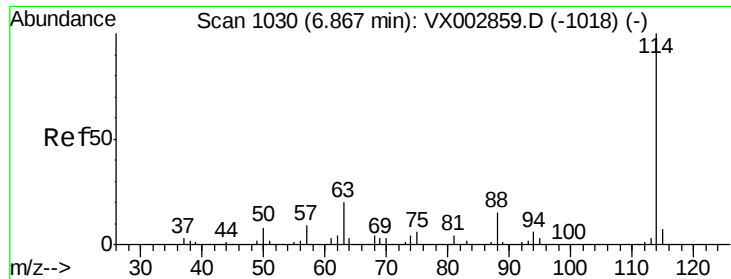
67 52.3 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX003201.D

Acq: 06 Jul 2018 05:01

Instrument :

MSVOA_X

ClientSampleId :

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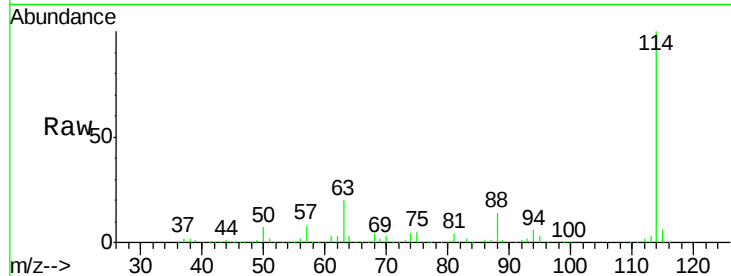
Tot Ion:114 Resp: 374785

Ion Ratio Lower Upper

114 100

63 20.0 0.0 41.4

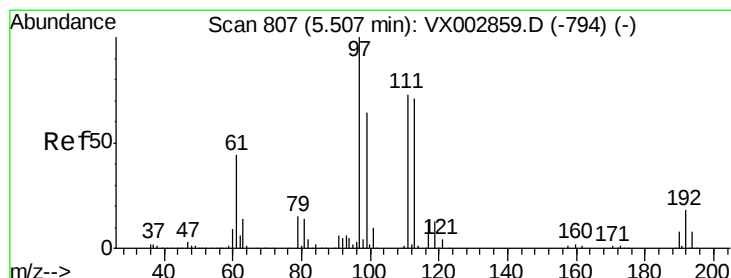
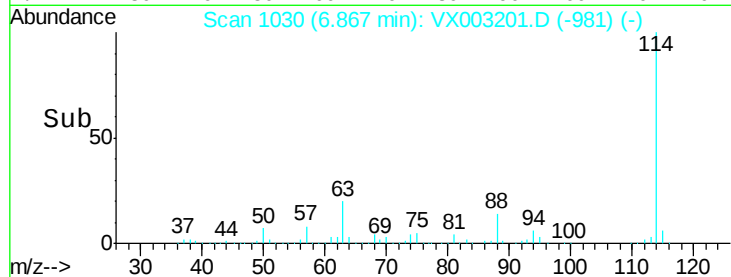
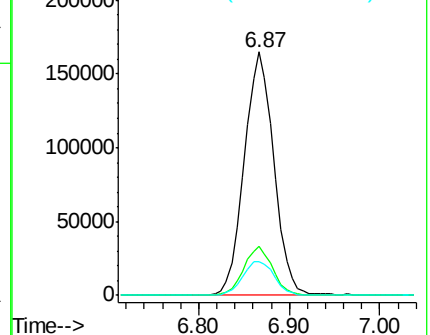
88 14.1 0.0 30.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.07 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX003201.D

Acq: 06 Jul 2018 05:01

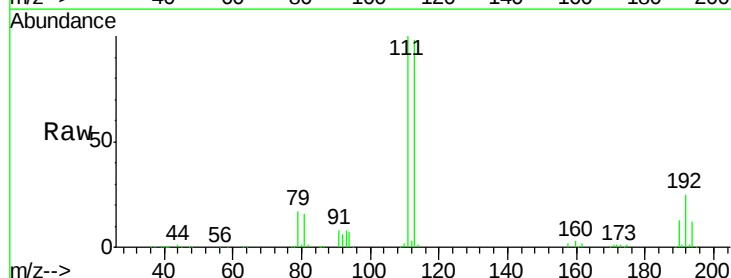
Tgt Ion:113 Resp: 145632

Ion Ratio Lower Upper

113 100

111 102.2 81.4 122.0

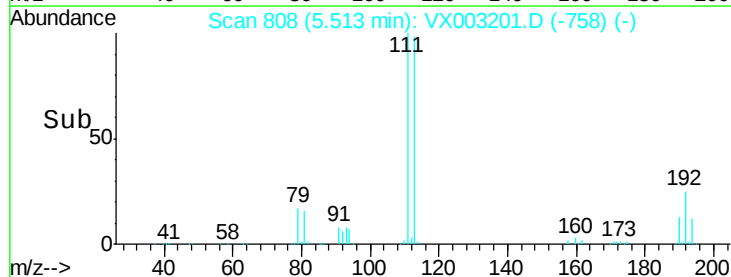
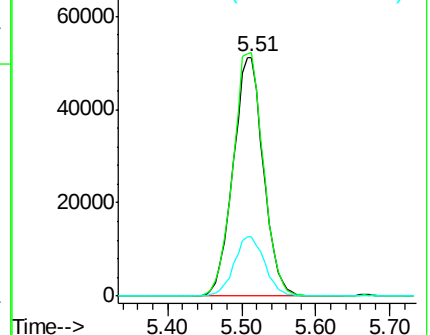
192 25.0 19.1 28.7

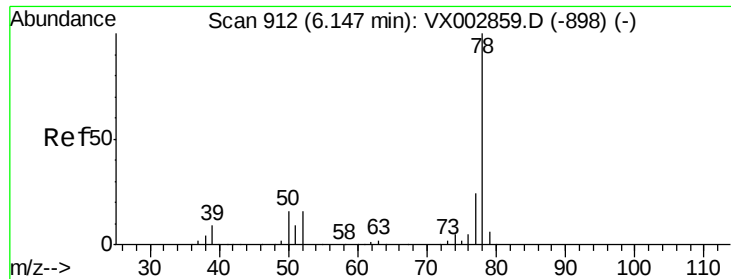


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

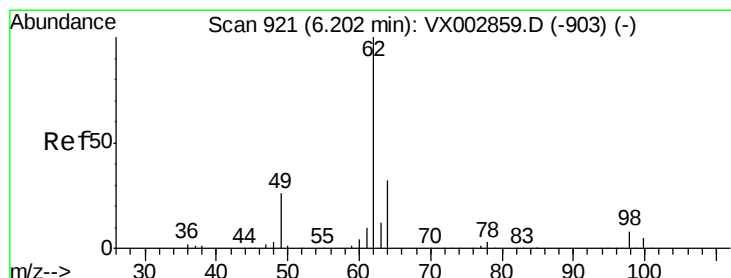
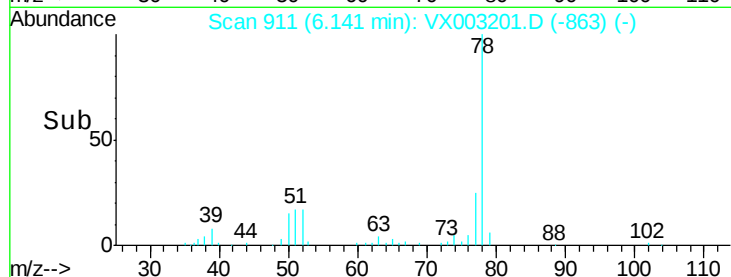
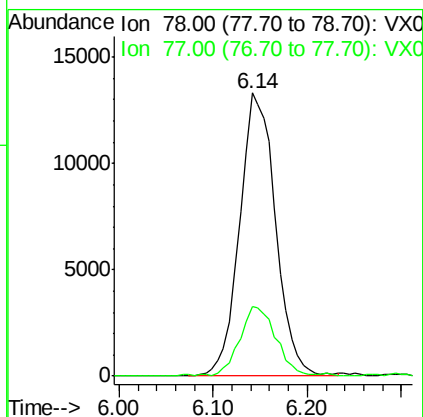
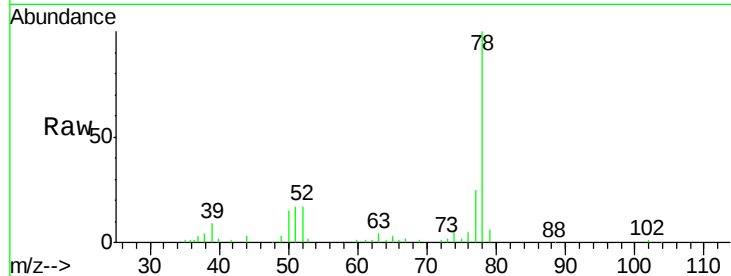




#40
Benzene
Concen: 2.99 ug/l
RT: 6.14 min Scan# 911
Delta R.T. -0.01 min
Lab File: VX003201.D
Acq: 06 Jul 2018 05:01

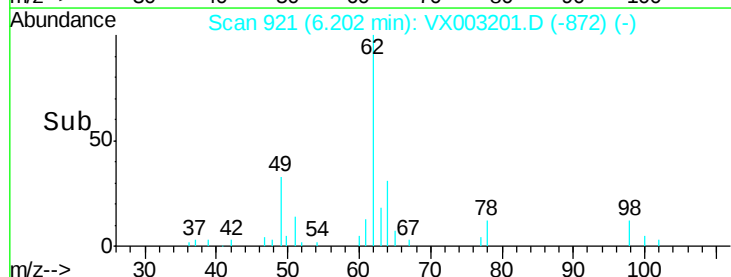
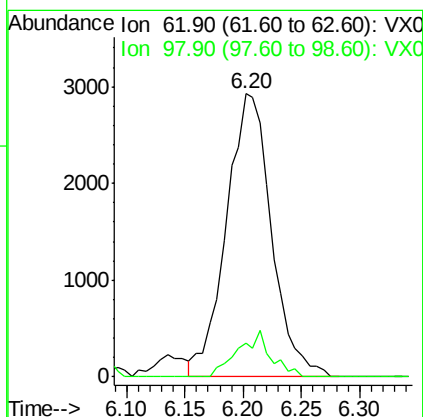
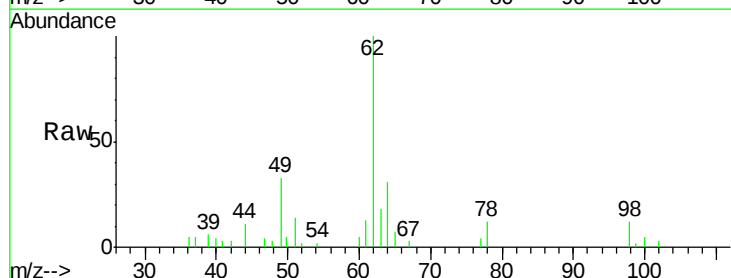
Instrument :
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WP022MW357-180702

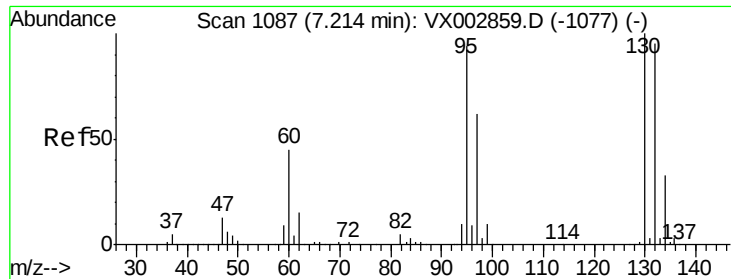
Tot Ion: 78 Resp: 35681
Ion Ratio Lower Upper
78 100
77 24.6 19.1 28.7



#42
1,2-Dichloroethane
Concen: 1.63 ug/l
RT: 6.20 min Scan# 921
Delta R.T. 0.00 min
Lab File: VX003201.D
Acq: 06 Jul 2018 05:01

Tgt Ion: 62 Resp: 7885
Ion Ratio Lower Upper
62 100
98 11.8 0.0 16.6

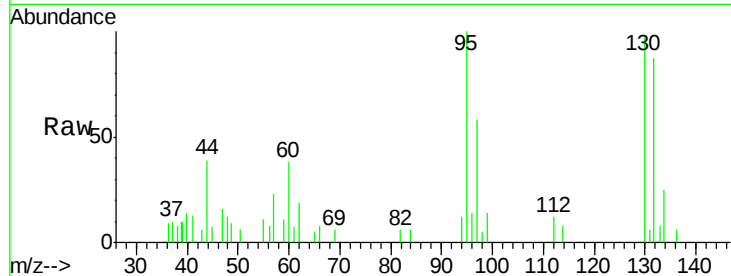




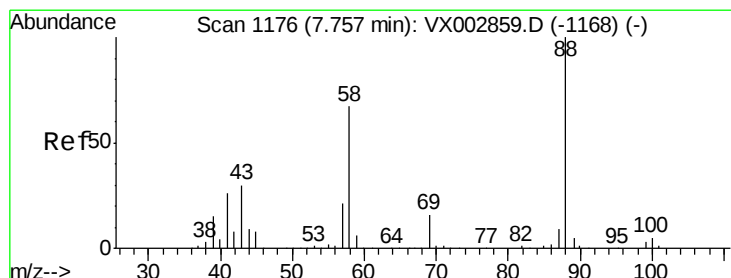
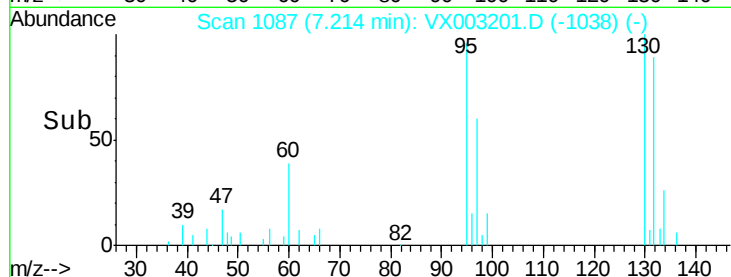
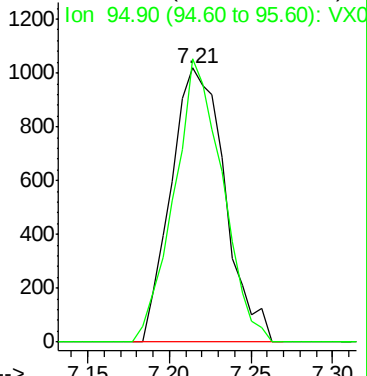
#44
 Trichloroethene
 Concen: 0.66 ug/l
 RT: 7.21 min Scan# 1087
 Delta R.T. 0.00 min
 Lab File: VX003201.D
 Acq: 06 Jul 2018 05:01

Instrument :
 MSVOA_X
 ClientSampleId :
 WP022MW357-180702

Tot Ion:130 Resp: 2340
 Ion Ratio Lower Upper
 130 100
 95 103.3 0.0 185.4

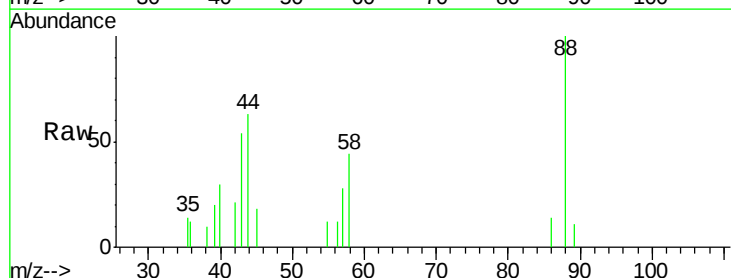


Abundance Ion 129.80 (129.50 to 130.50): V

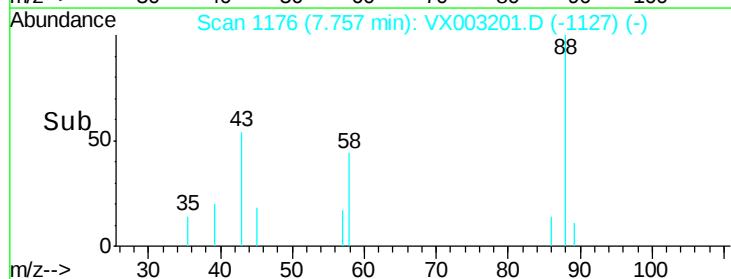
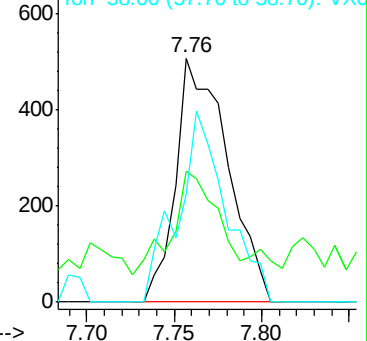


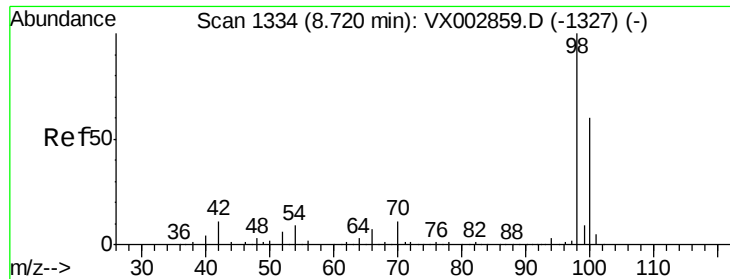
#49
 1,4-Dioxane
 Concen: 14.03 ug/l
 RT: 7.76 min Scan# 1176
 Delta R.T. 0.00 min
 Lab File: VX003201.D
 Acq: 06 Jul 2018 05:01

Tgt Ion: 88 Resp: 1044
 Ion Ratio Lower Upper
 88 100
 43 49.0 29.8 44.6#
 58 73.7 57.1 85.7



Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.35 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003201.D

Acq: 06 Jul 2018 05:01

Instrument :

MSVOA_X

ClientSampleId :

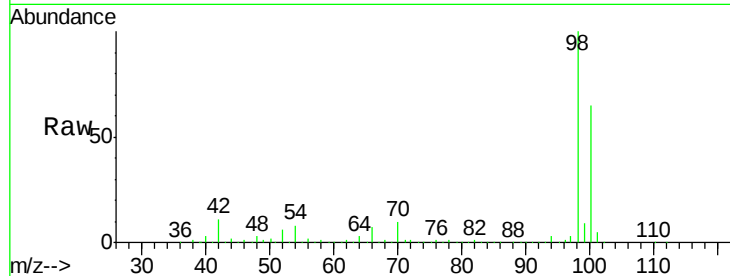
WP022MW357-180702

Tot Ion: 98 Resp: 524051

Ion Ratio Lower Upper

98 100

100 64.5 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.72

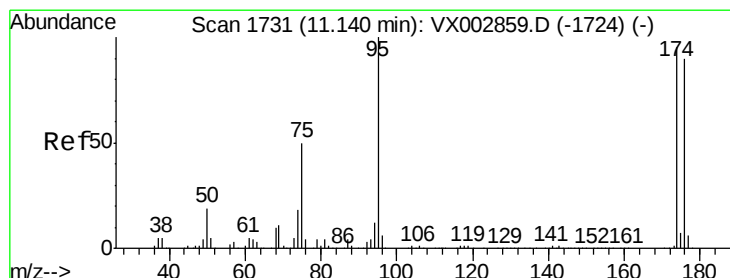
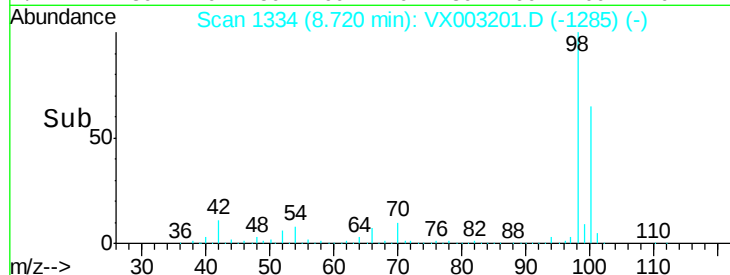
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 45.59 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003201.D

Acq: 06 Jul 2018 05:01

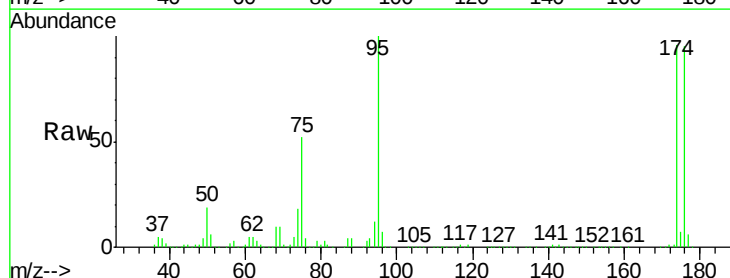
Tgt Ion: 95 Resp: 190548

Ion Ratio Lower Upper

95 100

174 98.7 0.0 187.4

176 96.0 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

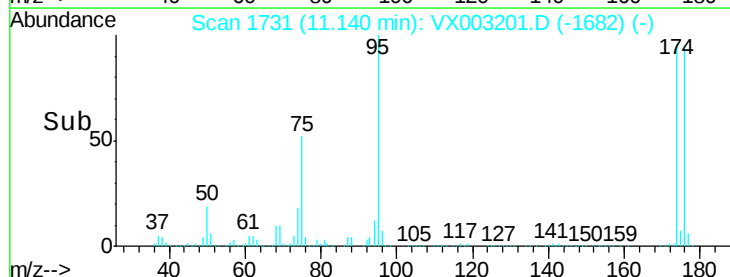
150000

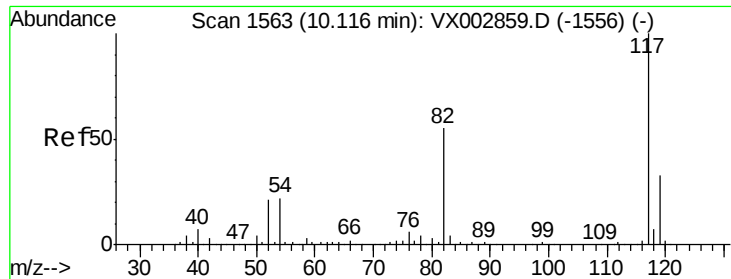
100000

50000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003201.D

Acq: 06 Jul 2018 05:01

Instrument :

MSVOA_X

ClientSampleId :

WP022MW357-180702

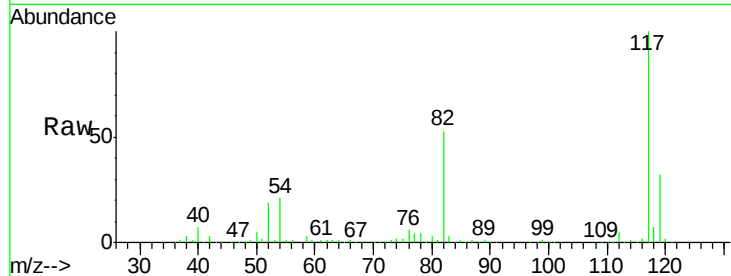
Tot Ion:117 Resp: 354631

Ion Ratio Lower Upper

117 100

82 53.4 45.0 67.4

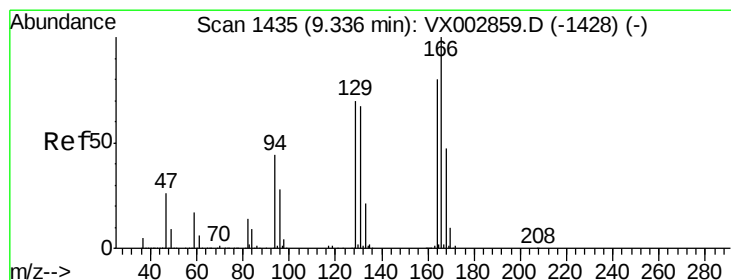
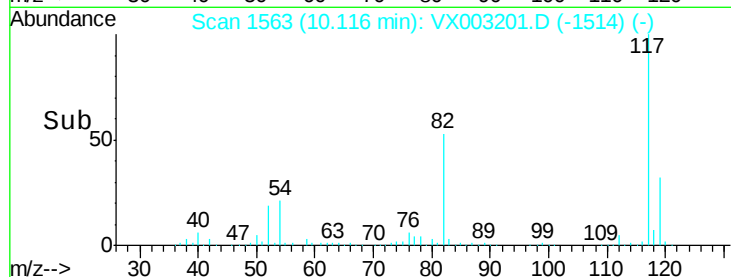
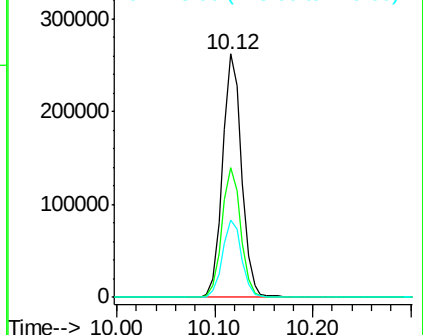
119 31.9 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 0.90 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. 0.01 min

Lab File: VX003201.D

Acq: 06 Jul 2018 05:01

Tgt Ion:164 Resp: 3567

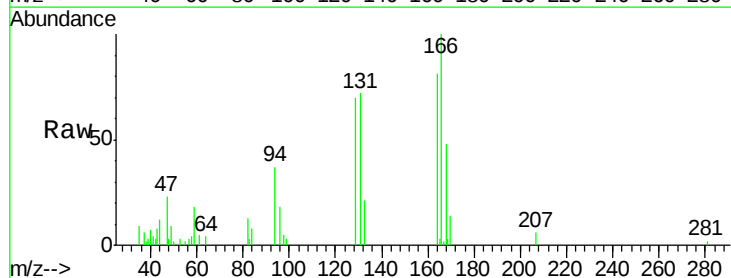
Ion Ratio Lower Upper

164 100

166 123.0 102.9 154.3

129 86.4 68.6 102.8

131 88.5 66.8 100.2

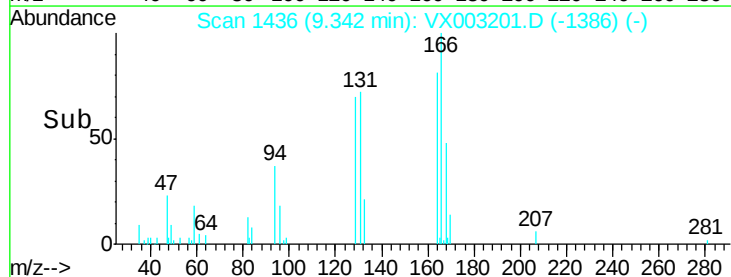
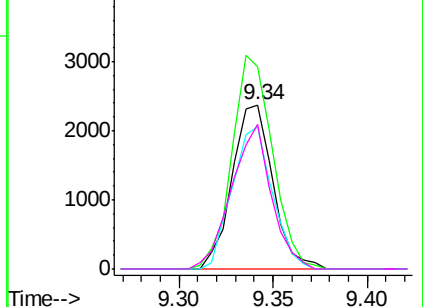


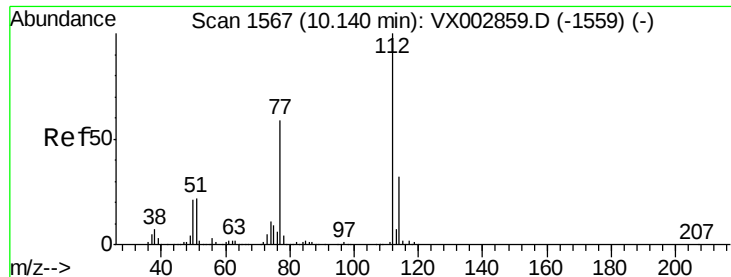
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 182.94 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VX003201.D

Acq: 06 Jul 2018 05:01

Instrument :

MSVOA_X

ClientSampleId :

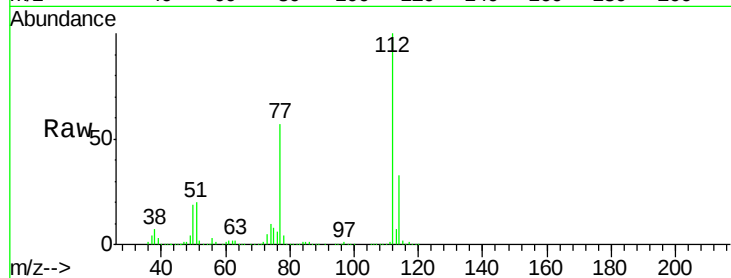
WP022MW357-180702

Tot Ion:112 Resp: 1647828

Ion Ratio Lower Upper

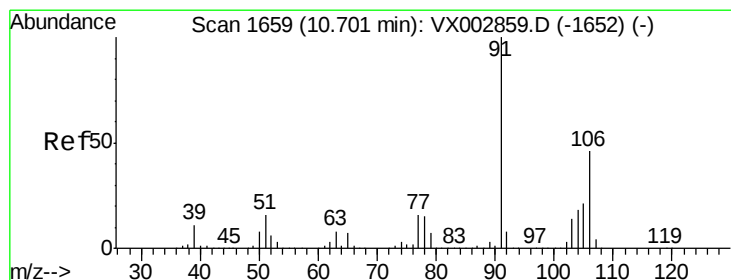
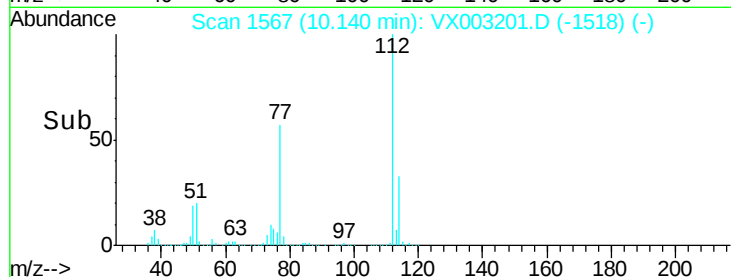
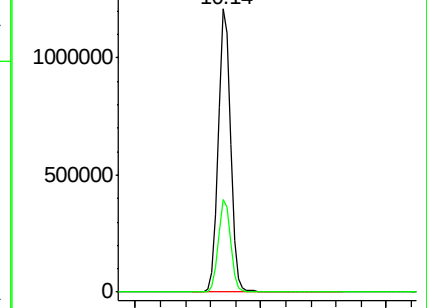
112 100

114 32.8 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#69

o-Xylene

Concen: 0.25 ug/l

RT: 10.70 min Scan# 1659

Delta R.T. 0.00 min

Lab File: VX003201.D

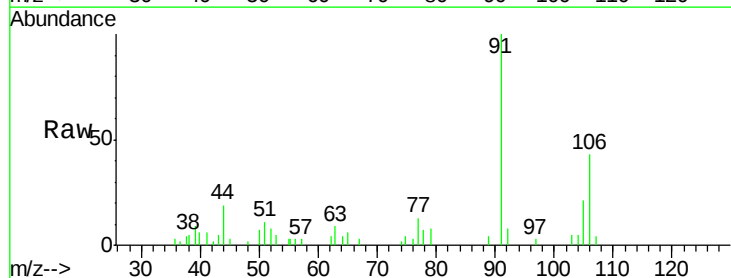
Acq: 06 Jul 2018 05:01

Tgt Ion:106 Resp: 1421

Ion Ratio Lower Upper

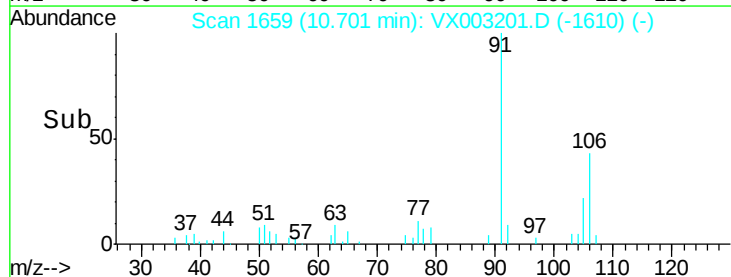
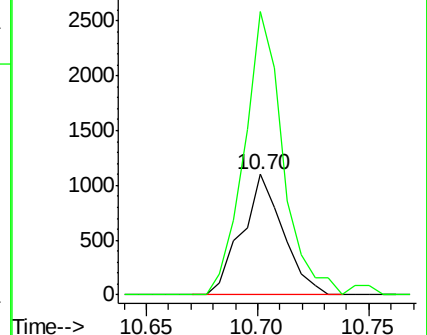
106 100

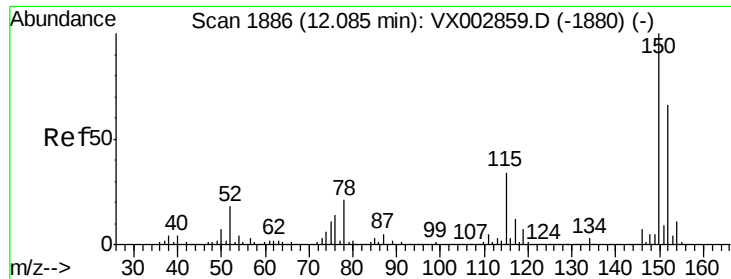
91 225.2 108.2 324.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003201.D

Acq: 06 Jul 2018 05:01

Instrument :

MSVOA_X

ClientSampleId :

WP022MW357-180702

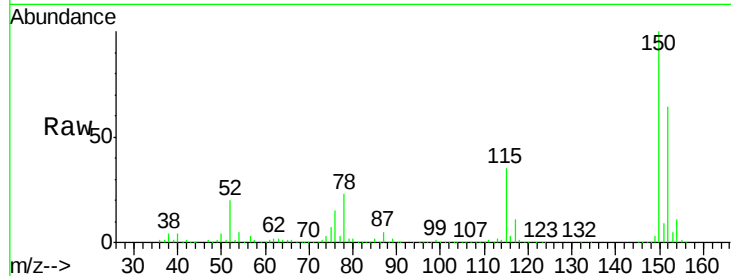
Tot Ion:152 Resp: 205031

Ion Ratio Lower Upper

152 100

115 53.3 40.1 120.2

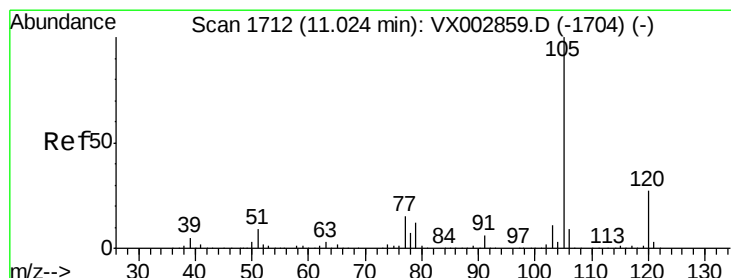
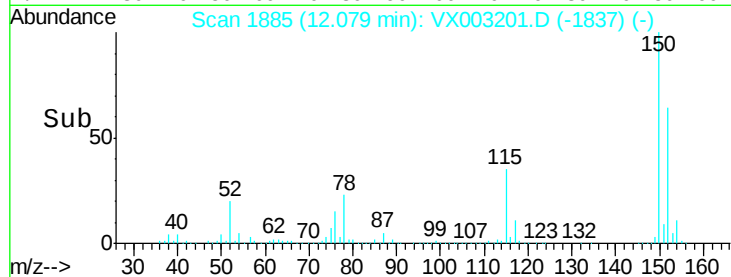
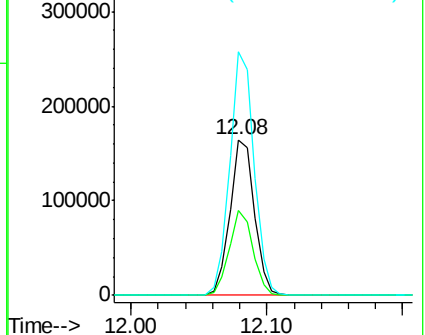
150 155.8 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 0.24 ug/l

RT: 11.02 min Scan# 1711

Delta R.T. -0.01 min

Lab File: VX003201.D

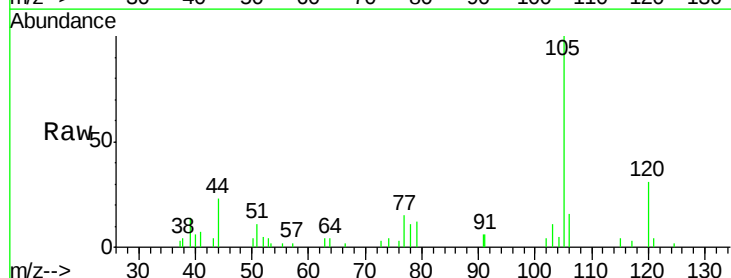
Acq: 06 Jul 2018 05:01

Tgt Ion:105 Resp: 3296

Ion Ratio Lower Upper

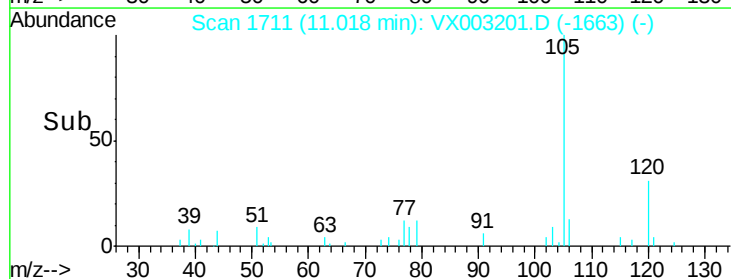
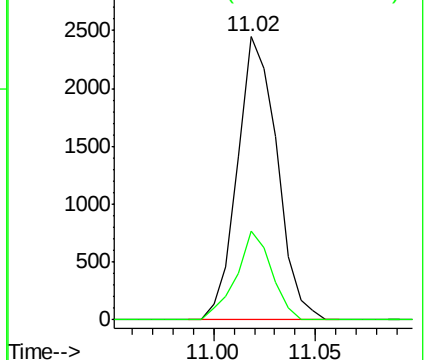
105 100

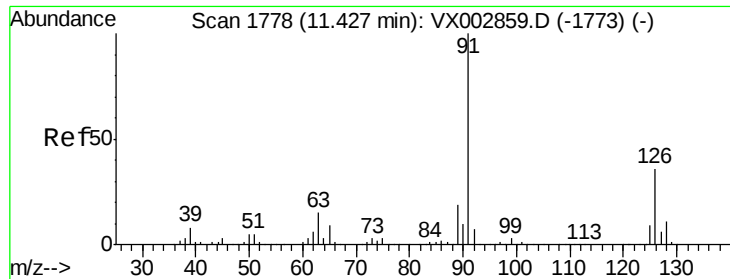
120 28.0 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

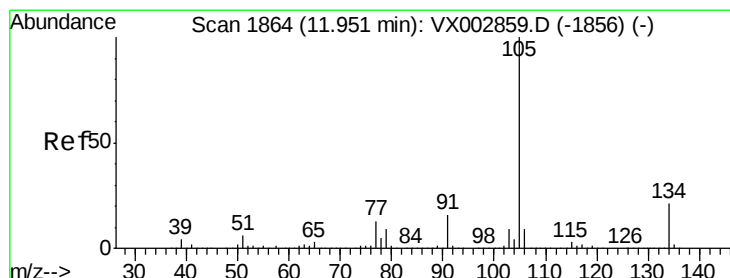
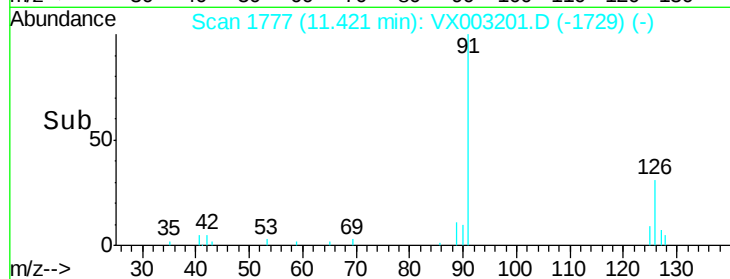
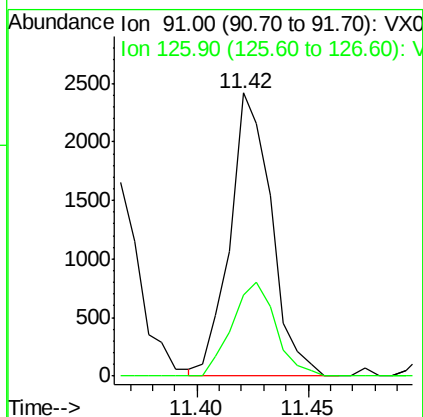
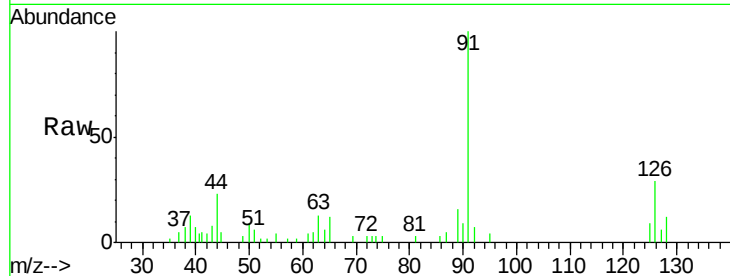




#79
2-Chlorotoluene
Concen: 0.33 ug/l
RT: 11.42 min Scan# 1777
Delta R.T. -0.01 min
Lab File: VX003201.D
Acq: 06 Jul 2018 05:01

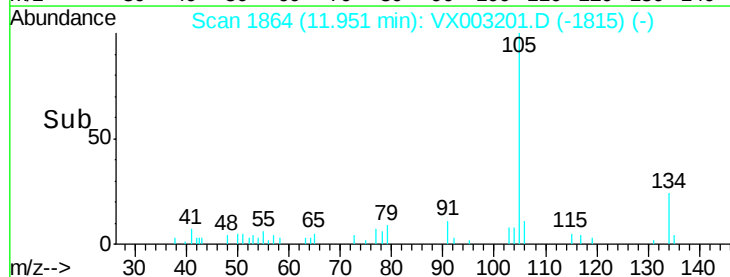
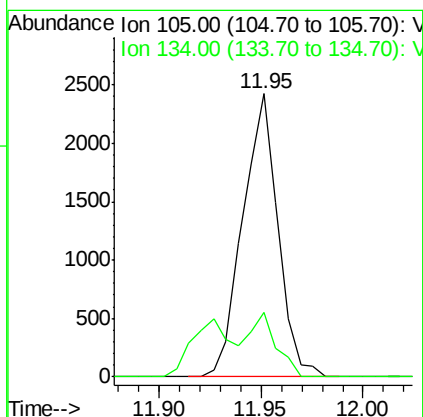
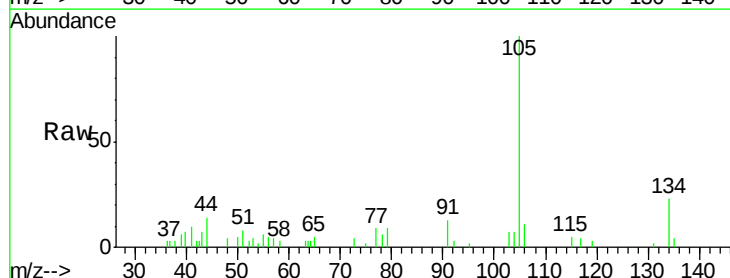
Instrument :
MSVOA_X
ClientSampleId :
WP022MW357-180702

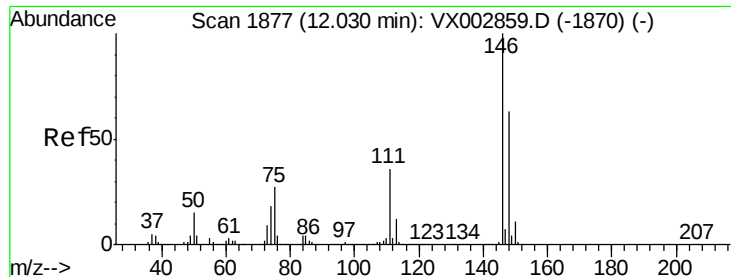
Tot Ion: 91 Resp: 3136
Ion Ratio Lower Upper
91 100
126 35.0 17.7 53.1



#85
sec-Butylbenzene
Concen: 0.21 ug/l
RT: 11.95 min Scan# 1864
Delta R.T. 0.00 min
Lab File: VX003201.D
Acq: 06 Jul 2018 05:01

Tgt Ion: 105 Resp: 2909
Ion Ratio Lower Upper
105 100
134 17.1 10.4 31.1





#87

1,3-Dichlorobenzene

Concen: 0.66 ug/l

RT: 12.03 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VX003201.D

Acq: 06 Jul 2018 05:01

Instrument :

MSVOA_X

ClientSampleId :

WP022MW357-180702

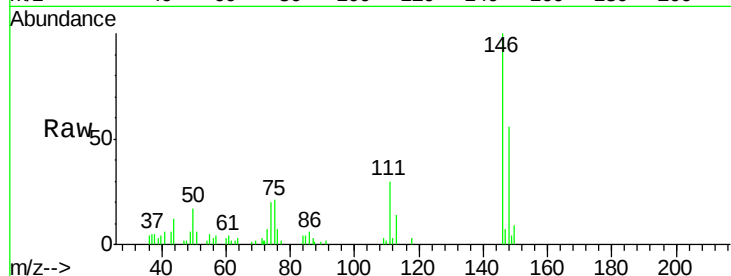
Tot Ion:146 Resp: 4734

Ion Ratio Lower Upper

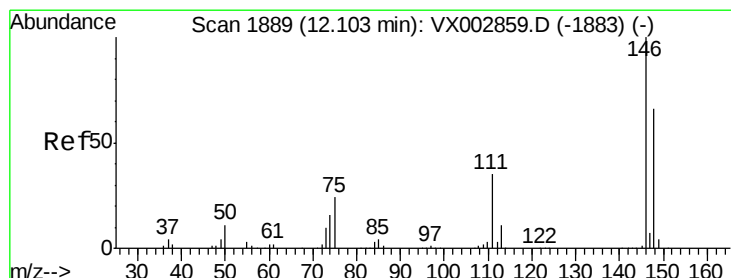
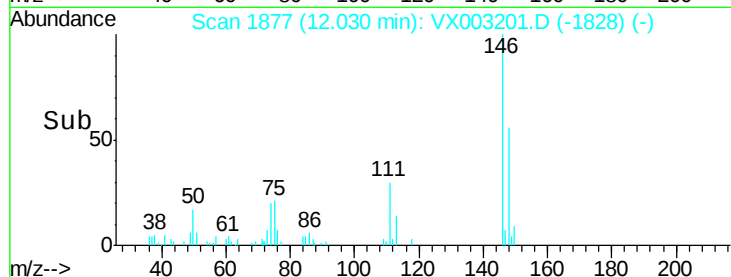
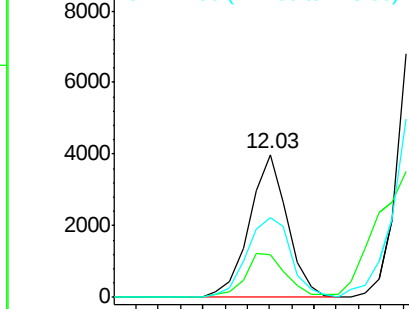
146 100

111 33.8 18.9 56.7

148 64.8 32.1 96.3



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 2.25 ug/l

RT: 12.10 min Scan# 1889

Delta R.T. 0.00 min

Lab File: VX003201.D

Acq: 06 Jul 2018 05:01

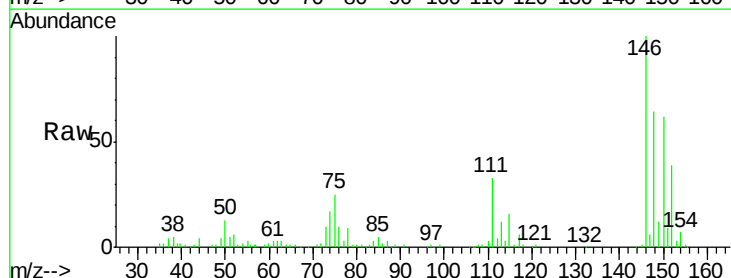
Tgt Ion:146 Resp: 16614

Ion Ratio Lower Upper

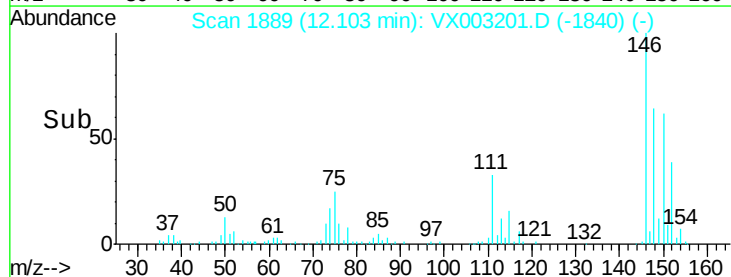
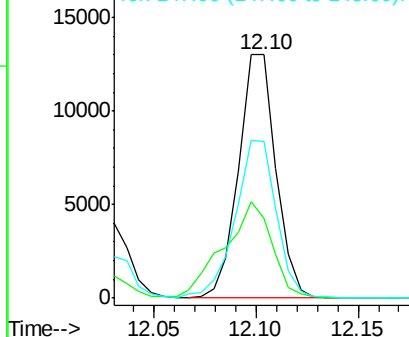
146 100

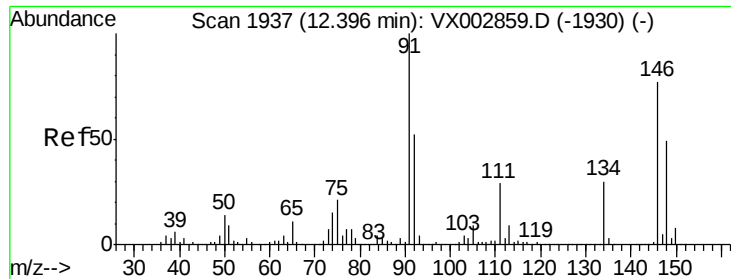
111 50.8 18.7 56.1

148 71.4 32.4 97.0



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V





#91

1,2-Dichlorobenzene

Concen: 2.14 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VX003201.D

Acq: 06 Jul 2018 05:01

Instrument :

MSVOA_X

ClientSampleId :

WP022MW357-180702

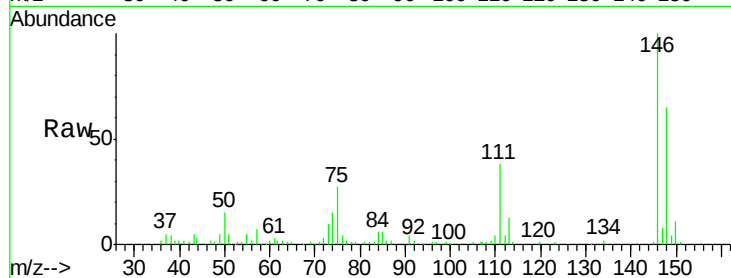
Tot Ion:146 Resp: 15477

Ion Ratio Lower Upper

146 100

111 39.9 19.4 58.1

148 67.1 31.7 95.1



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

