

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062818\
 Data File : VX002997.D
 Acq On : 28 Jun 2018 20:33
 Operator : JC/MD
 Sample : J3668-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW347-180620

Quant Time: Jun 29 09:59:41 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	276434	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	384763	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	356937	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	209236	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	180630	47.27	ug/l	0.00
Spiked Amount			Recovery	=	94.54%	
35) Dibromofluoromethane	5.51	113	147885	48.54	ug/l	0.00
Spiked Amount			Recovery	=	97.08%	
50) Toluene-d8	8.72	98	538304	48.38	ug/l	0.00
Spiked Amount			Recovery	=	96.76%	
62) 4-Bromofluorobenzene	11.14	95	193985	45.21	ug/l	0.00
Spiked Amount			Recovery	=	90.42%	

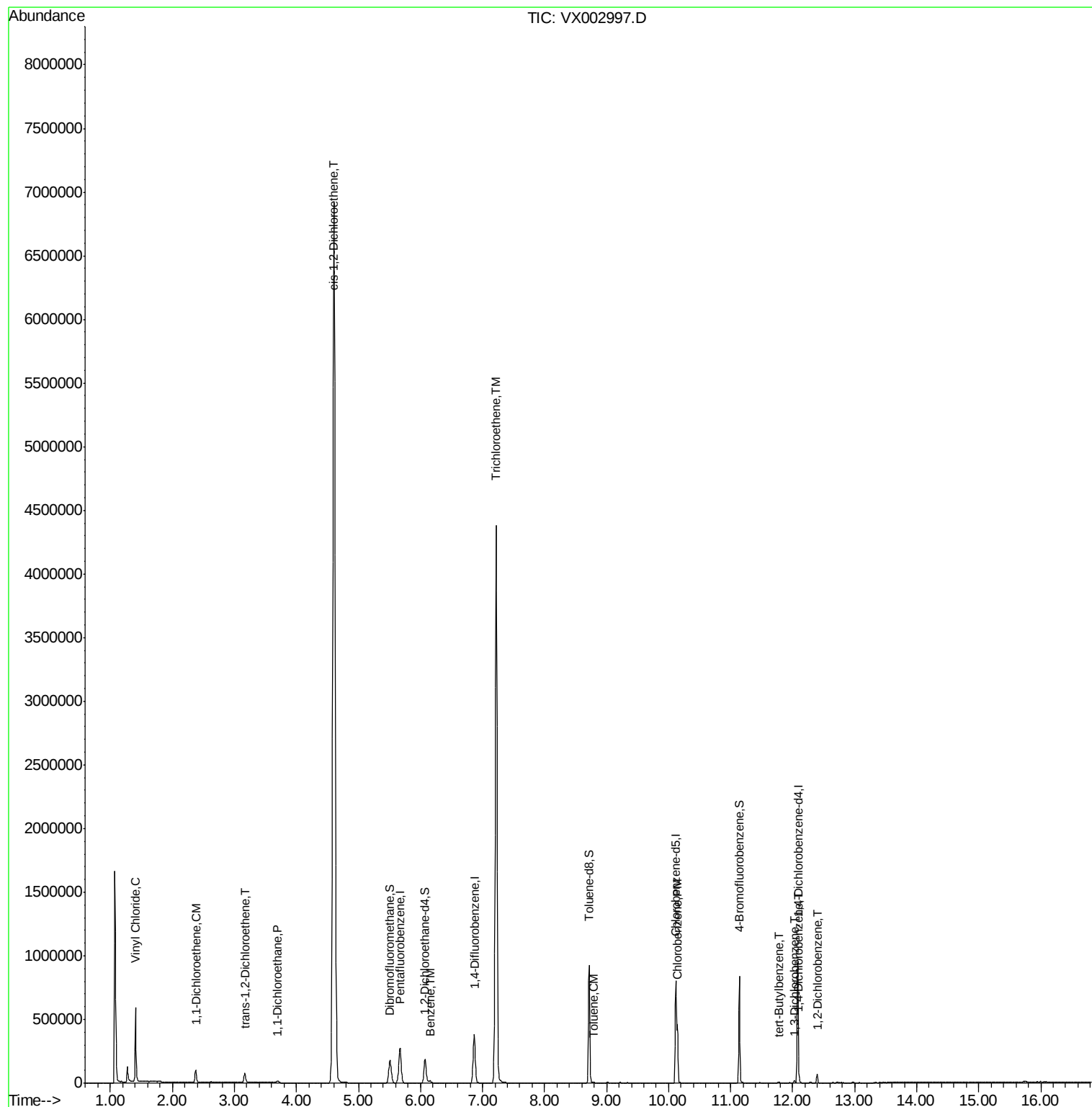
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	386953	123.78	ug/l	98
12) 1,1-Dichloroethene	2.37	96	33442	12.27	ug/l	92
21) trans-1,2-Dichloroethene	3.17	96	30747	10.35	ug/l	97
24) 1,1-Dichloroethane	3.70	63	18024	3.23	ug/l	97
27) cis-1,2-Dichloroethene	4.60	96	4358185	1309.04	ug/l	81
40) Benzene	6.15	78	18519	1.51	ug/l	98
44) Trichloroethene	7.22	130	1698829	464.77	ug/l	99
52) Toluene	8.79	92	1861	0.24	ug/l	98
65) Chlorobenzene	10.14	112	183453	20.23	ug/l	98
83) tert-Butylbenzene	11.77	119	2991	0.26	ug/l	92
87) 1,3-Dichlorobenzene	12.03	146	5637	0.77	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	14548	1.93	ug/l	87
91) 1,2-Dichlorobenzene	12.40	146	21473	2.91	ug/l	99

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX002997.D

Acq: 28 Jun 2018 20:33

Instrument :

MSVOA_X

ClientSampleId :

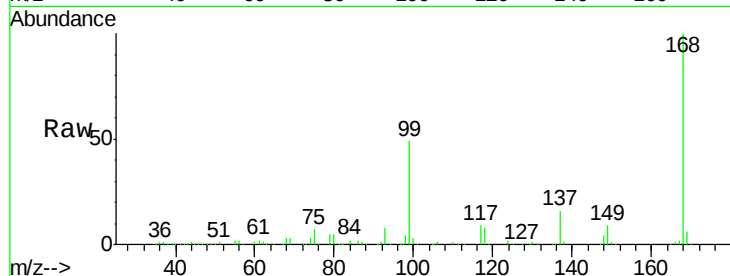
WP021MW347-180620

Tot Ion:168 Resp: 276434

Ion Ratio Lower Upper

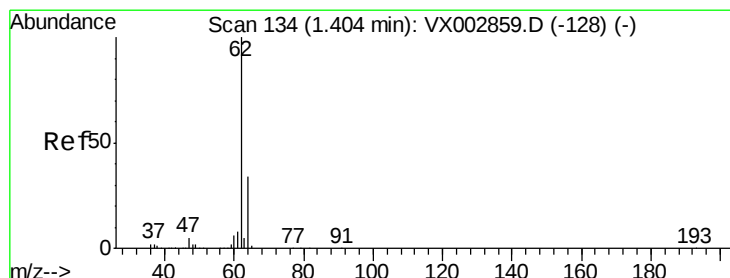
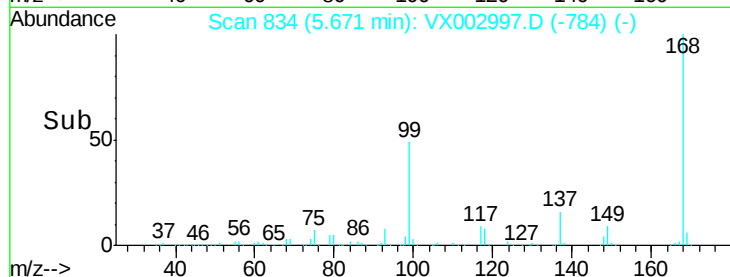
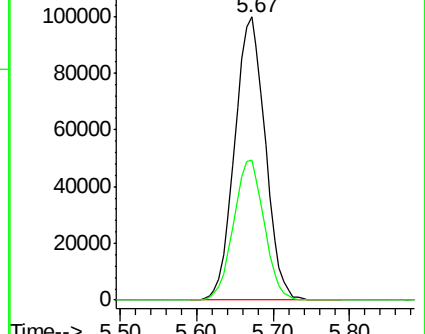
168 100

99 49.2 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: 123.78 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX002997.D

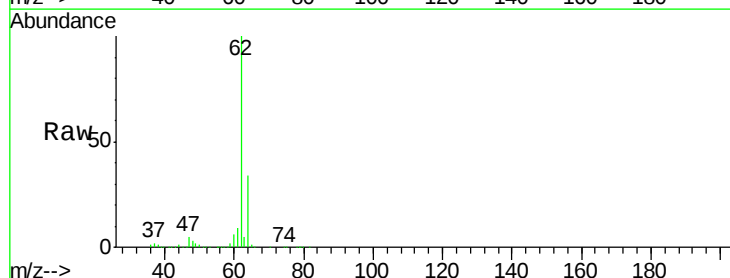
Acq: 28 Jun 2018 20:33

Tgt Ion: 62 Resp: 386953

Ion Ratio Lower Upper

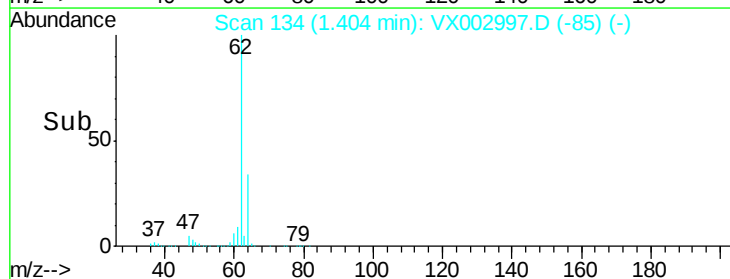
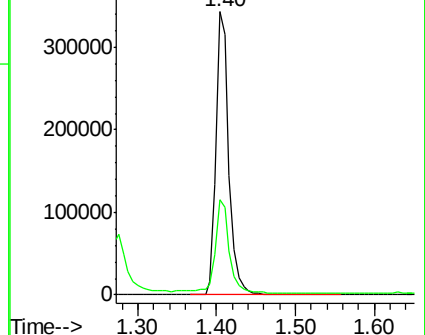
62 100

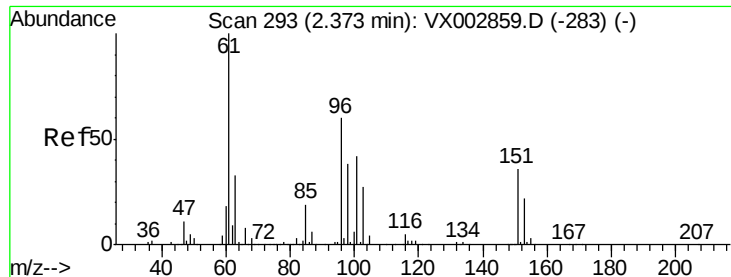
64 32.8 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#12

1,1-Dichloroethene

Concen: 12.27 ug/l

RT: 2.37 min Scan# 293

Delta R.T. -0.00 min

Lab File: VX002997.D

Acq: 28 Jun 2018 20:33

Instrument :

MSVOA_X

ClientSampleId :

WP021MW347-180620

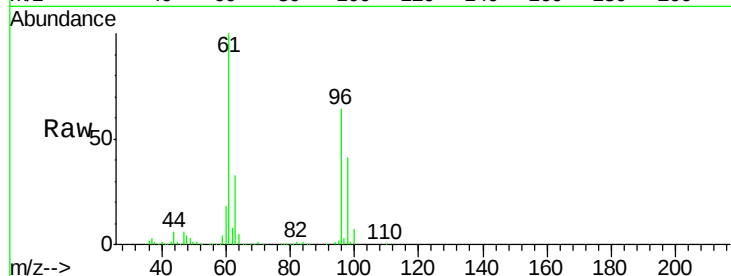
Tot Ion: 96 Resp: 33442

Ion Ratio Lower Upper

96 100

61 157.1 137.9 206.9

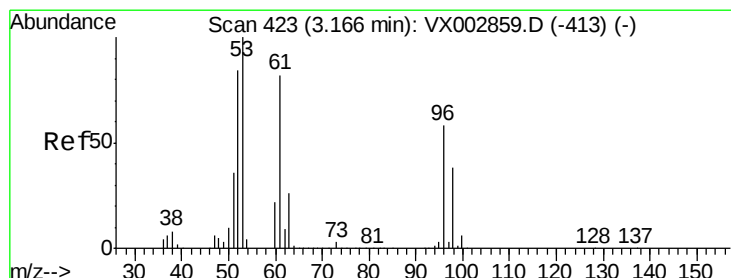
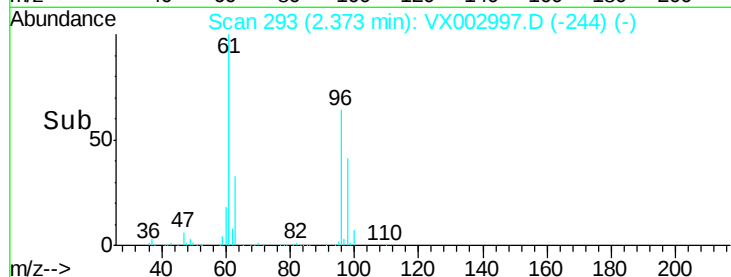
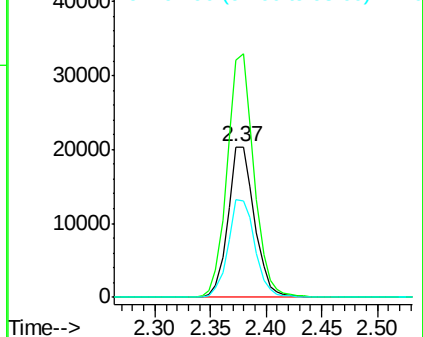
98 64.9 51.6 77.4



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



#21

trans-1,2-Dichloroethene

Concen: 10.35 ug/l

RT: 3.17 min Scan# 423

Delta R.T. -0.00 min

Lab File: VX002997.D

Acq: 28 Jun 2018 20:33

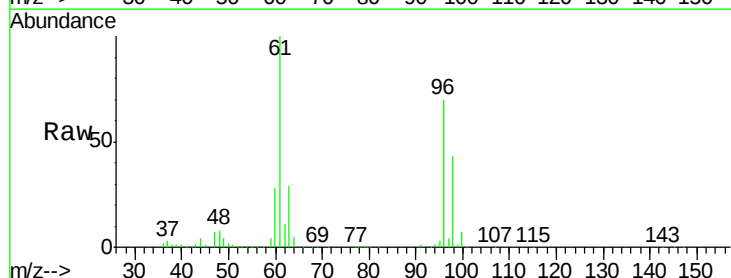
Tgt Ion: 96 Resp: 30747

Ion Ratio Lower Upper

96 100

61 142.9 117.0 175.4

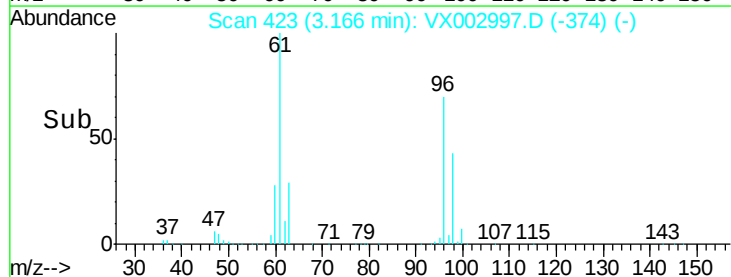
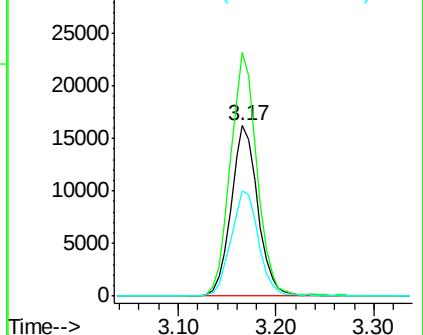
98 62.0 52.4 78.6

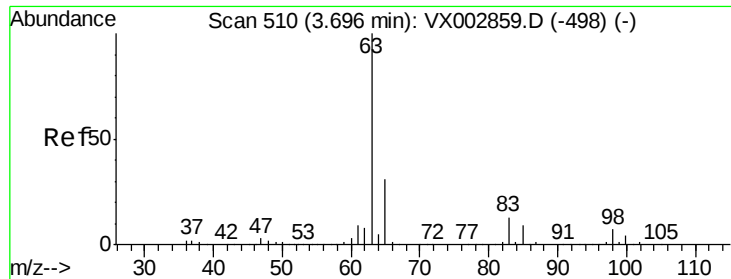


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#24

1,1-Dichloroethane

Concen: 3.23 ug/l

RT: 3.70 min Scan# 511

Delta R.T. 0.01 min

Lab File: VX002997.D

Acq: 28 Jun 2018 20:33

Instrument :

MSVOA_X

ClientSampleId :

WP021MW347-180620

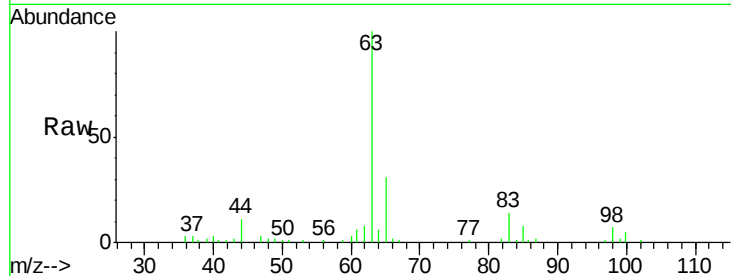
Tot Ion: 63 Resp: 18024

Ion Ratio Lower Upper

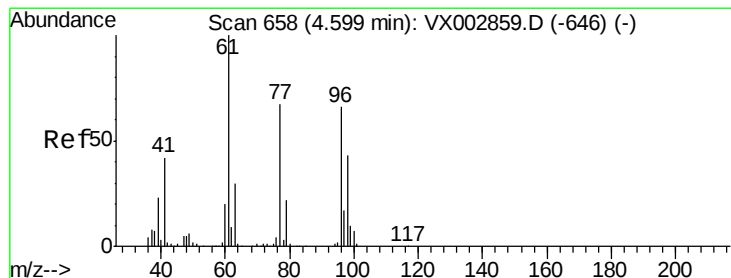
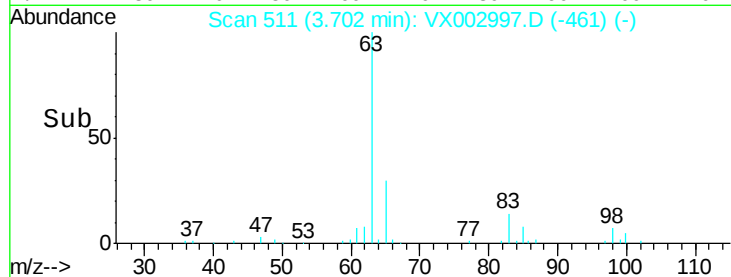
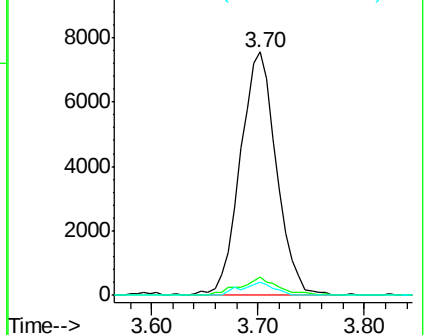
63 100

98 7.4 3.4 10.2

100 5.4 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: 1309.04 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX002997.D

Acq: 28 Jun 2018 20:33

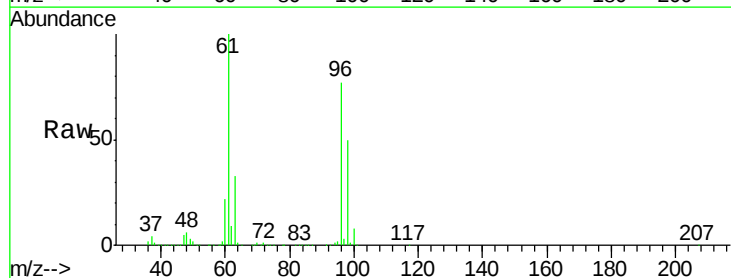
Tgt Ion: 96 Resp: 4358185

Ion Ratio Lower Upper

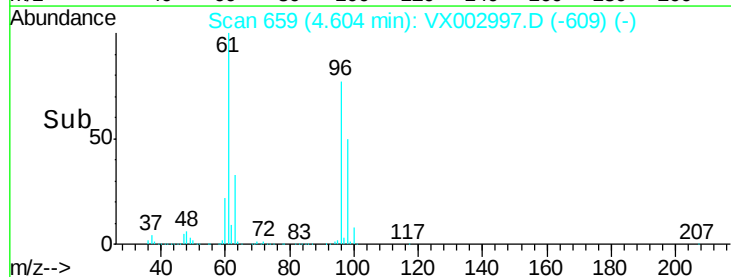
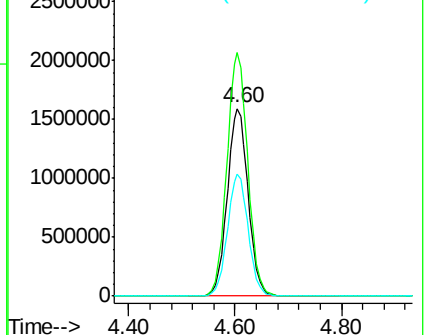
96 100

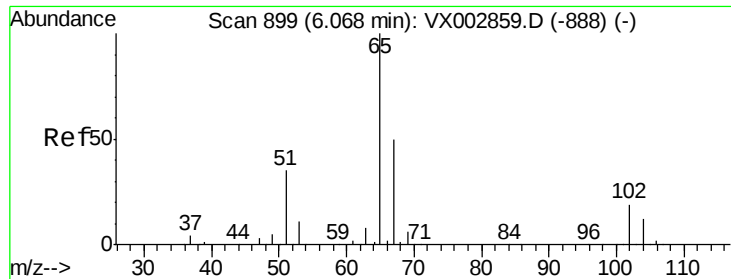
61 129.9 0.0 330.2

98 64.7 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

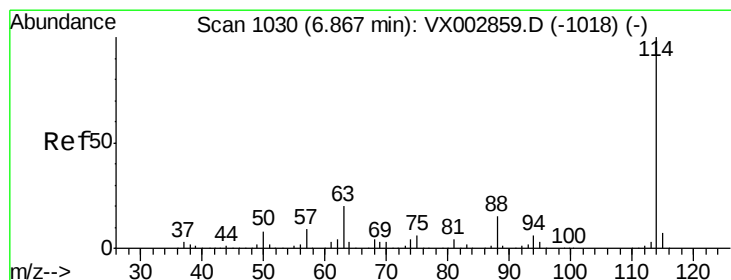
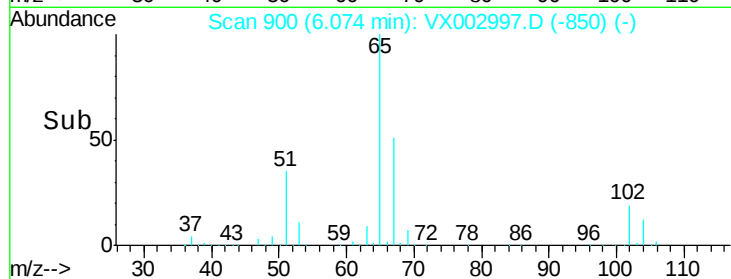
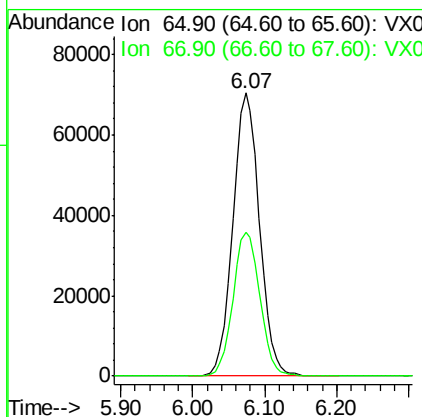
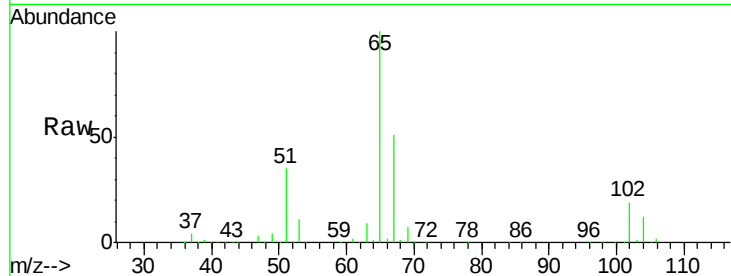




#33
 1,2-Dichloroethane-d4
 Concen: 47.27 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX002997.D
 Acq: 28 Jun 2018 20:33

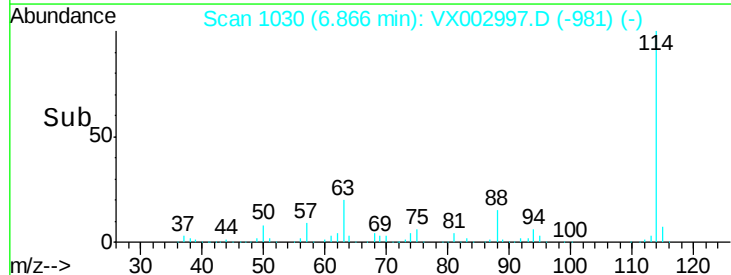
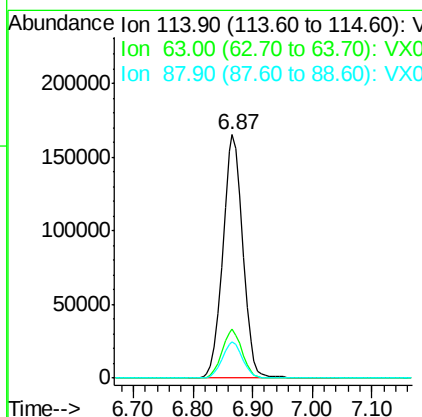
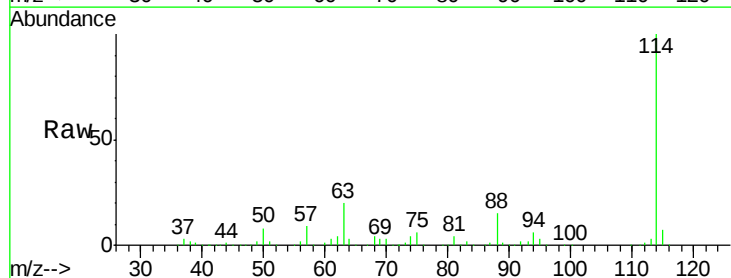
Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW347-180620

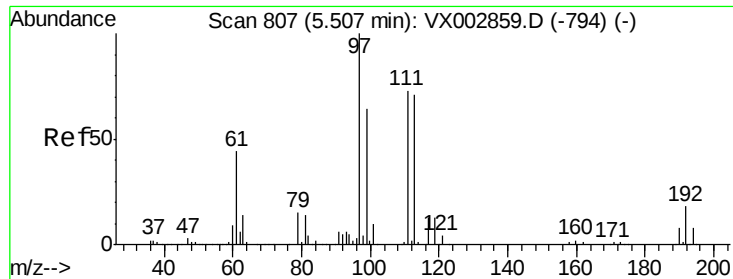
Tot Ion: 65 Resp: 180630
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002997.D
 Acq: 28 Jun 2018 20:33

Tgt Ion: 114 Resp: 384763
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 41.4
 88 15.0 0.0 30.0





#35

Dibromofluoromethane

Concen: 48.54 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002997.D

Acq: 28 Jun 2018 20:33

Instrument :

MSVOA_X

ClientSampleId :

WP021MW347-180620

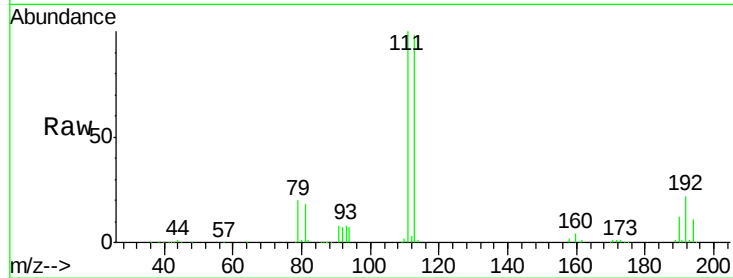
Tot Ion:113 Resp: 147885

Ion Ratio Lower Upper

113 100

111 101.6 81.4 122.0

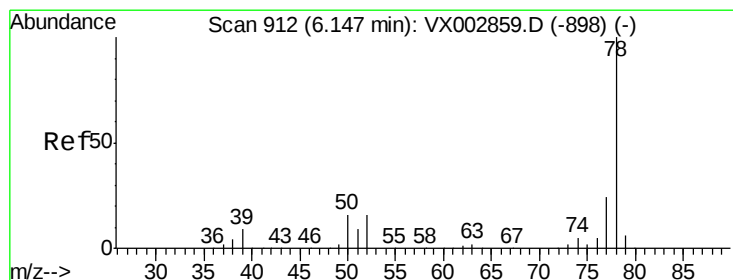
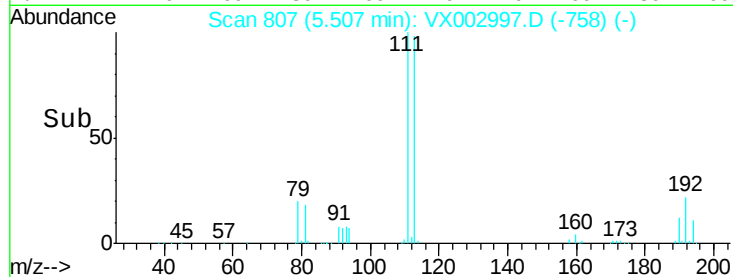
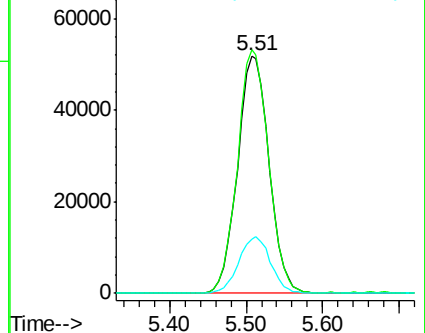
192 24.1 19.1 28.7



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: 1.51 ug/l

RT: 6.15 min Scan# 913

Delta R.T. 0.01 min

Lab File: VX002997.D

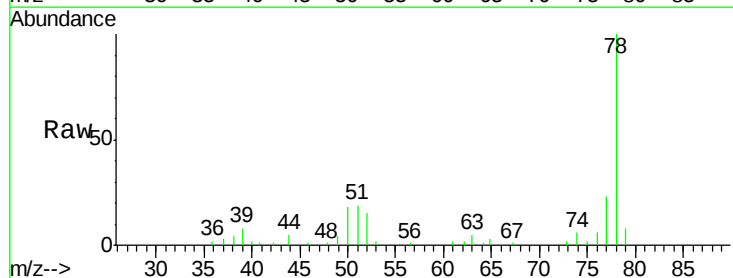
Acq: 28 Jun 2018 20:33

Tgt Ion: 78 Resp: 18519

Ion Ratio Lower Upper

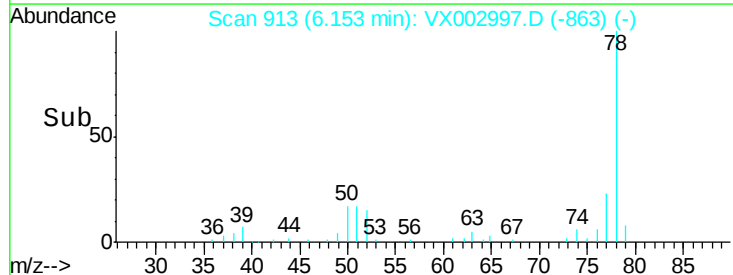
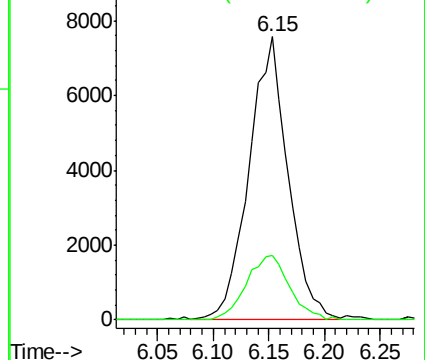
78 100

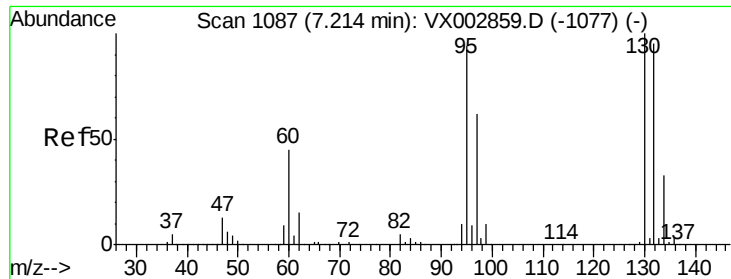
77 22.8 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#44

Trichloroethene

Concen: 464.77 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX002997.D

Acq: 28 Jun 2018 20:33

Instrument :

MSVOA_X

ClientSampleId :

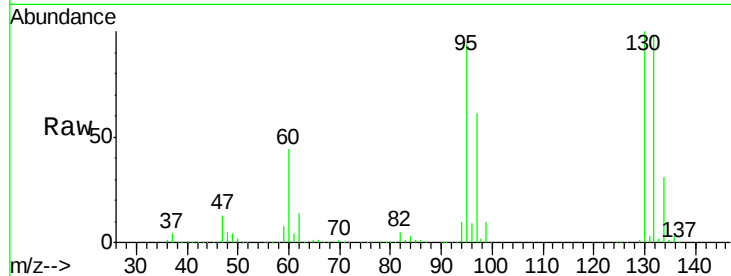
WP021MW347-180620

Tot Ion:130 Resp: 1698829

Ion Ratio Lower Upper

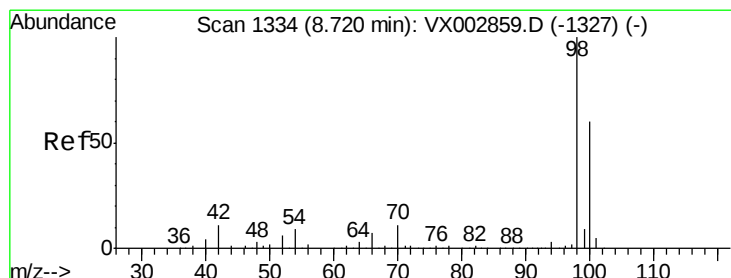
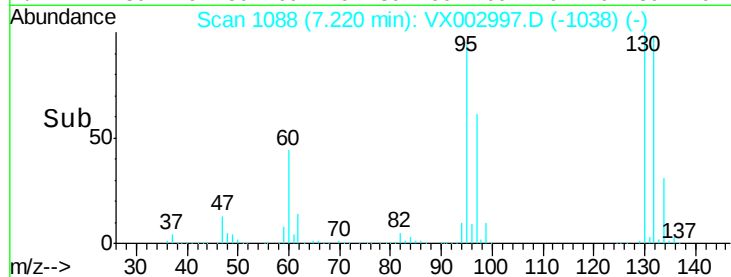
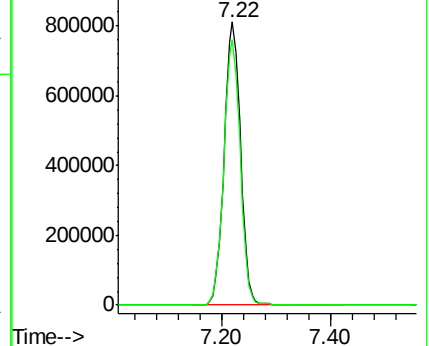
130 100

95 93.6 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 48.38 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002997.D

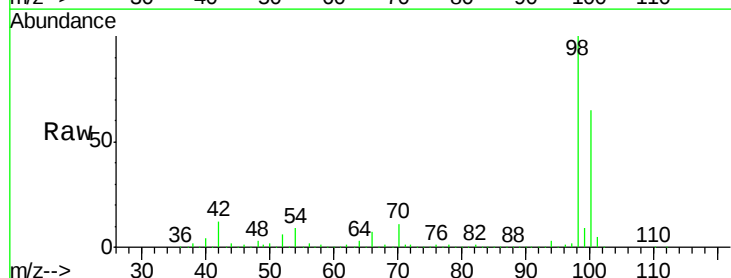
Acq: 28 Jun 2018 20:33

Tgt Ion: 98 Resp: 538304

Ion Ratio Lower Upper

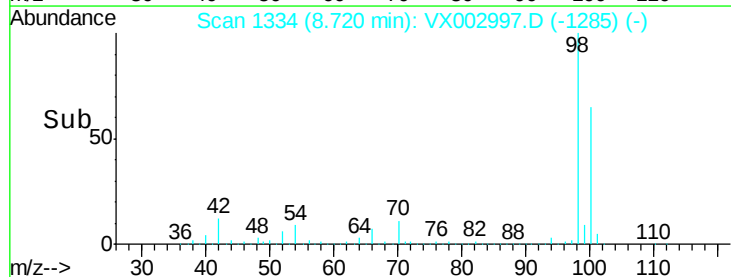
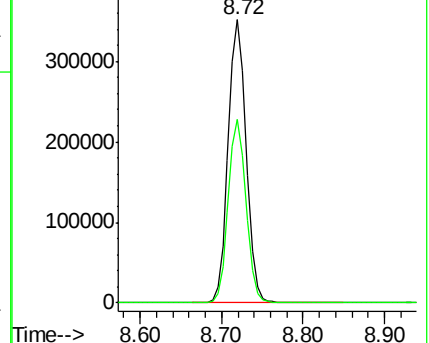
98 100

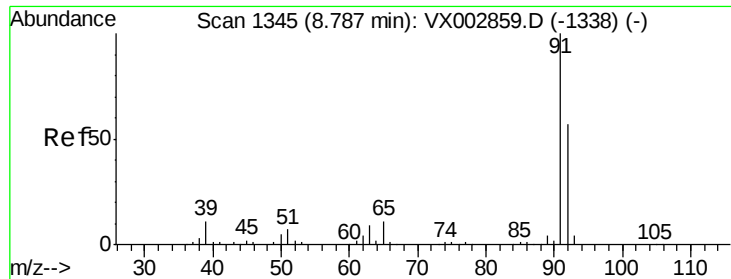
100 64.1 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#52

Toluene

Concen: 0.24 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VX002997.D

Acq: 28 Jun 2018 20:33

Instrument :

MSVOA_X

ClientSampleId :

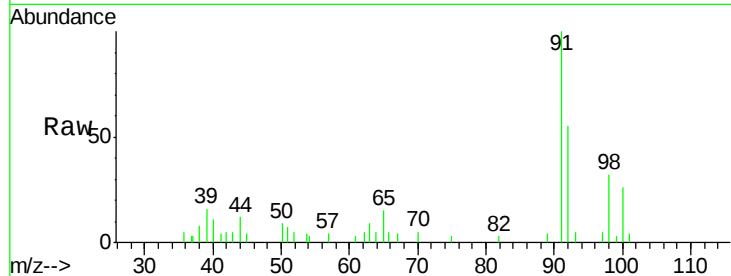
WP021MW347-180620

Tot Ion: 92 Resp: 1861

Ion Ratio Lower Upper

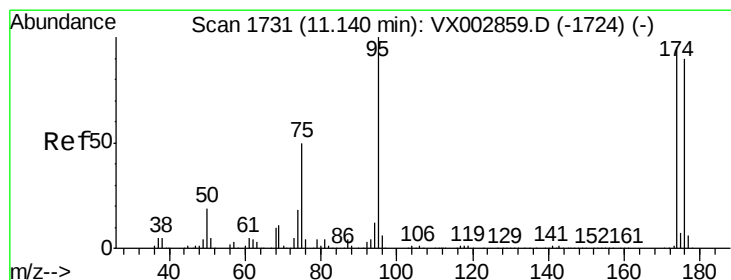
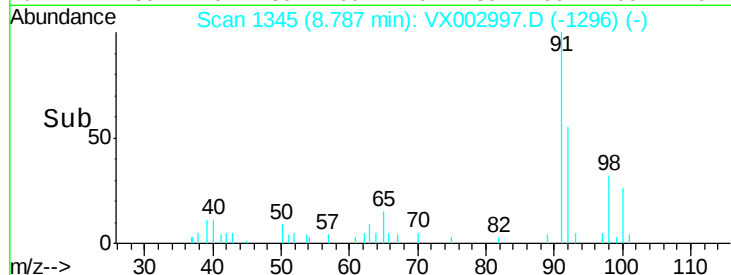
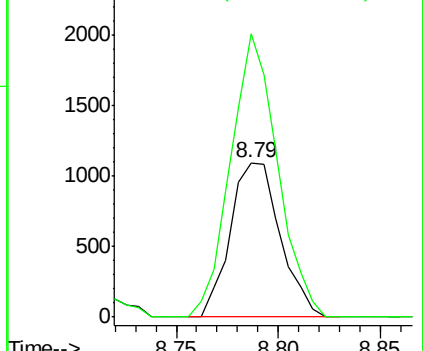
92 100

91 172.3 140.4 210.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 45.21 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002997.D

Acq: 28 Jun 2018 20:33

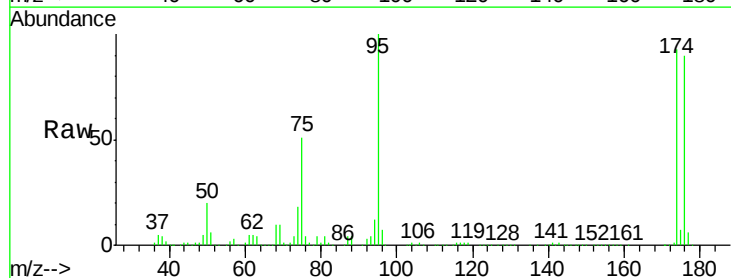
Tgt Ion: 95 Resp: 193985

Ion Ratio Lower Upper

95 100

174 96.4 0.0 187.4

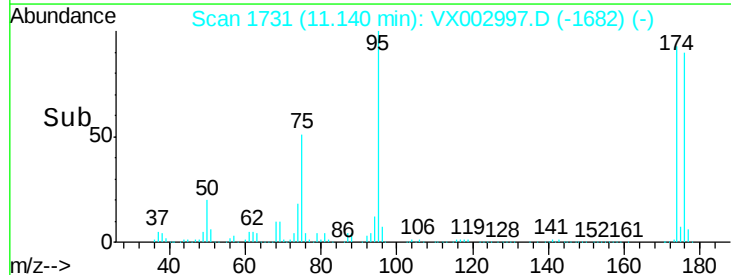
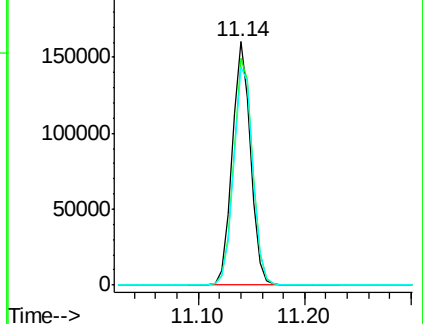
176 93.7 0.0 181.0

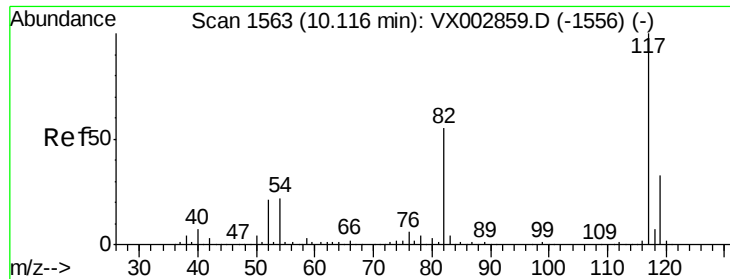


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

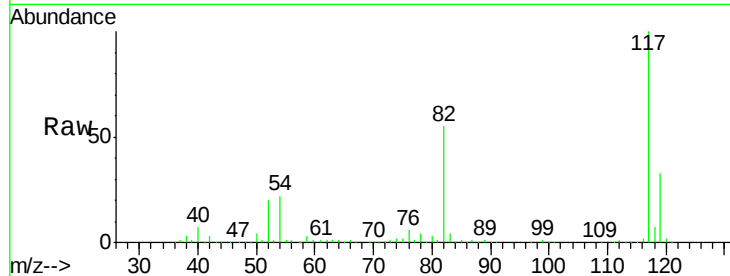




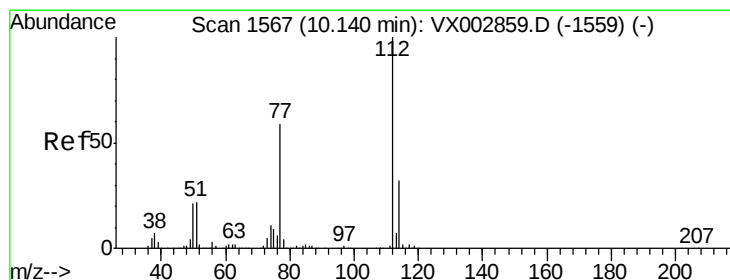
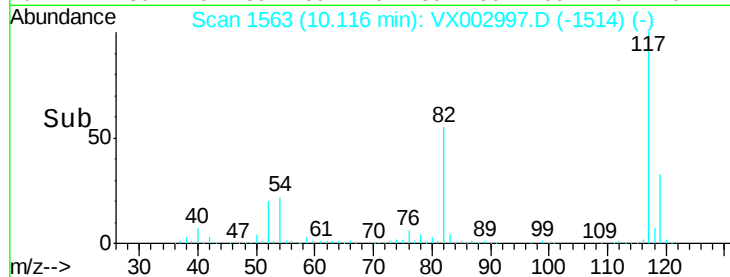
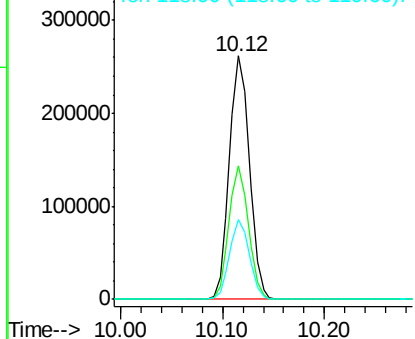
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002997.D
Acq: 28 Jun 2018 20:33

Instrument :
MSVOA_X
ClientSampleId :
WP021MW347-180620

Tot Ion:117 Resp: 356937
Ion Ratio Lower Upper
117 100
82 54.6 45.0 67.4
119 32.6 25.8 38.6

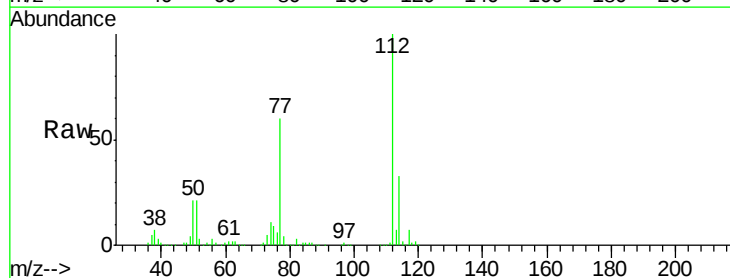


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

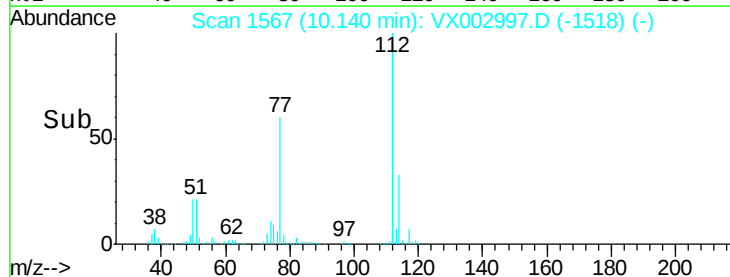
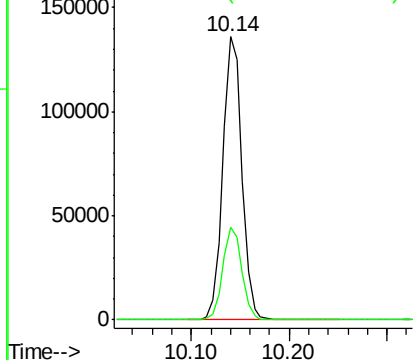


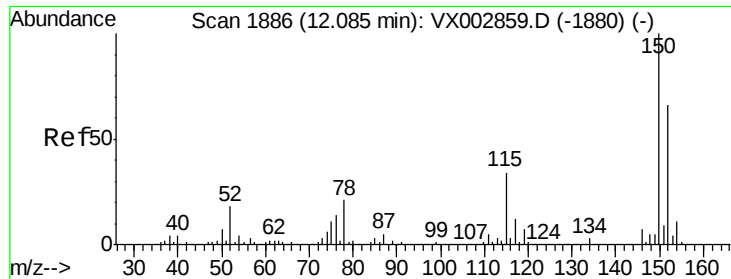
#65
Chlorobenzene
Concen: 20.23 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX002997.D
Acq: 28 Jun 2018 20:33

Tgt Ion:112 Resp: 183453
Ion Ratio Lower Upper
112 100
114 32.6 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002997.D

Acq: 28 Jun 2018 20:33

Instrument :

MSVOA_X

ClientSampleId :

WP021MW347-180620

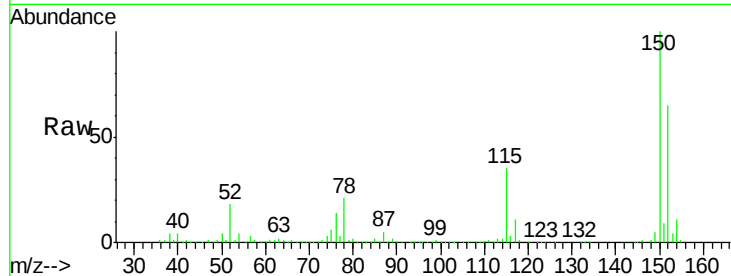
Tot Ion:152 Resp: 209236

Ion Ratio Lower Upper

152 100

115 54.6 40.1 120.2

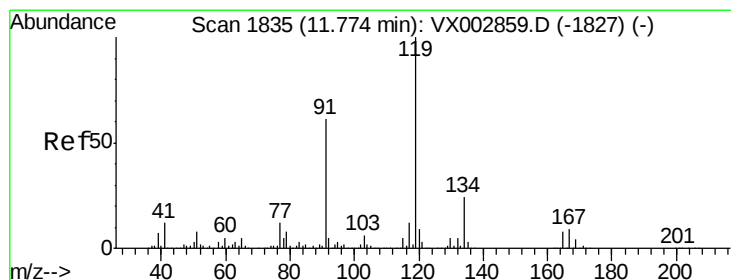
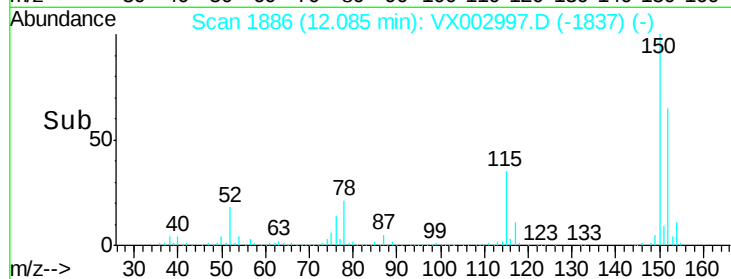
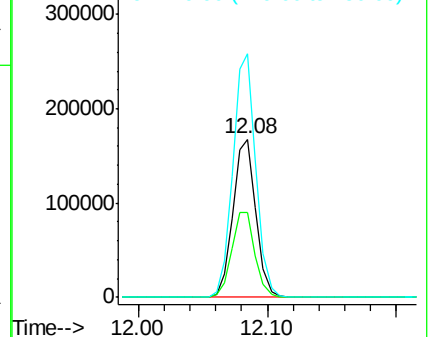
150 153.9 0.0 347.2



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



#83

tert-Butylbenzene

Concen: 0.26 ug/l

RT: 11.77 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX002997.D

Acq: 28 Jun 2018 20:33

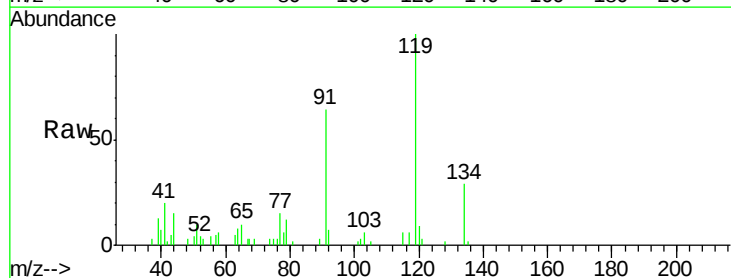
Tgt Ion:119 Resp: 2991

Ion Ratio Lower Upper

119 100

91 65.9 30.3 90.9

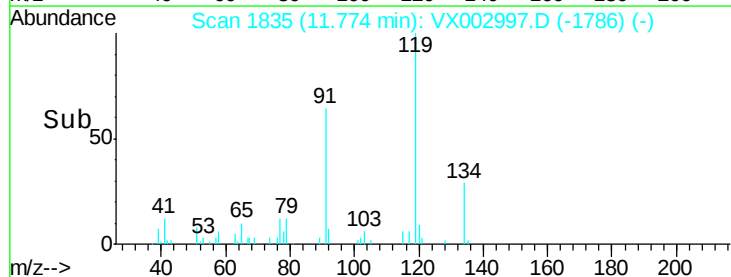
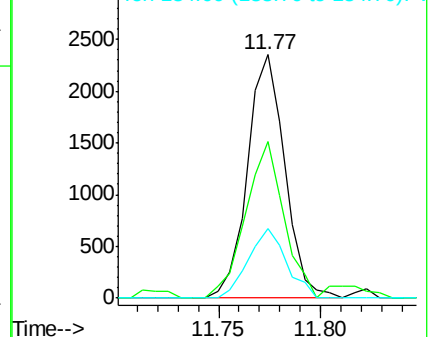
134 29.2 11.7 35.1

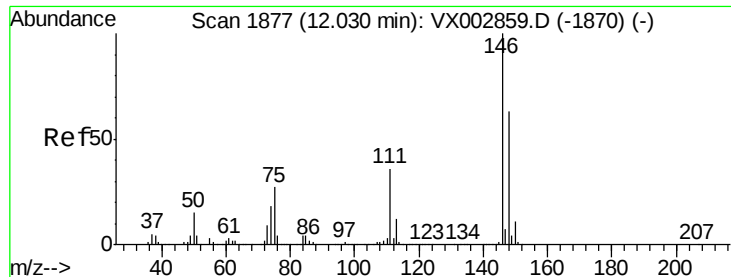


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V





#87

1,3-Dichlorobenzene

Concen: 0.77 ug/l

RT: 12.03 min Scan# 1877

Delta R.T. -0.00 min

Lab File: VX002997.D

Acq: 28 Jun 2018 20:33

Instrument :

MSVOA_X

ClientSampleId :

WP021MW347-180620

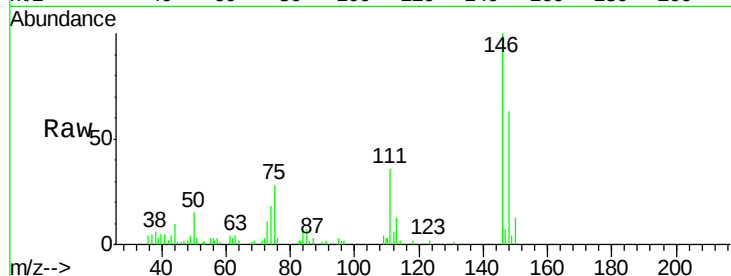
Tot Ion:146 Resp: 5637

Ion Ratio Lower Upper

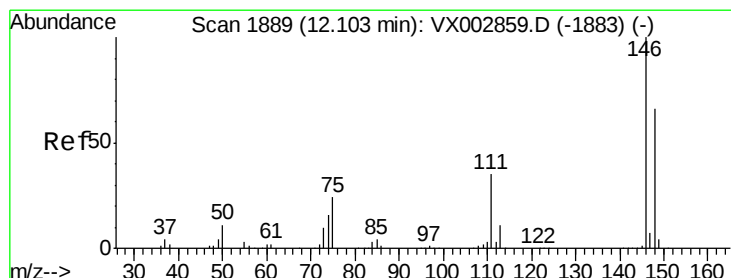
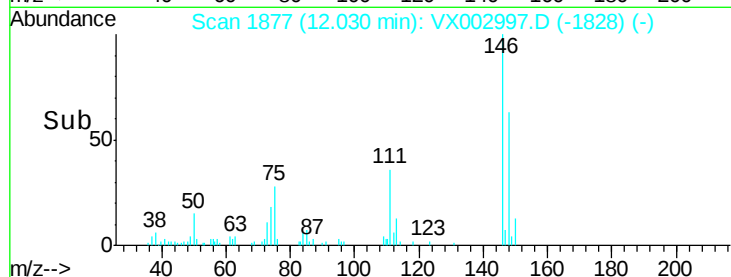
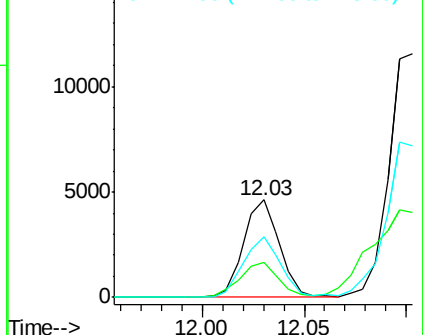
146 100

111 38.9 18.9 56.7

148 64.5 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: 1.93 ug/l

RT: 12.10 min Scan# 1889

Delta R.T. -0.00 min

Lab File: VX002997.D

Acq: 28 Jun 2018 20:33

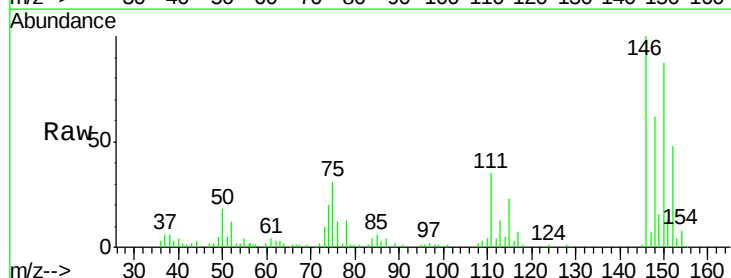
Tgt Ion:146 Resp: 14548

Ion Ratio Lower Upper

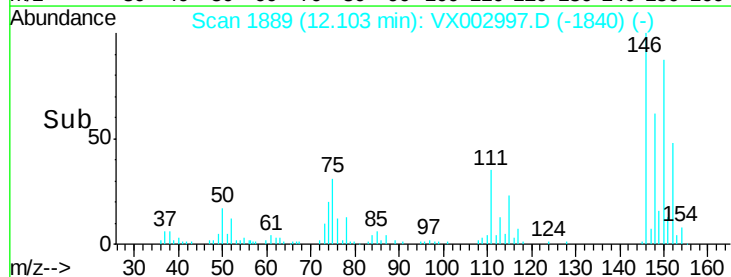
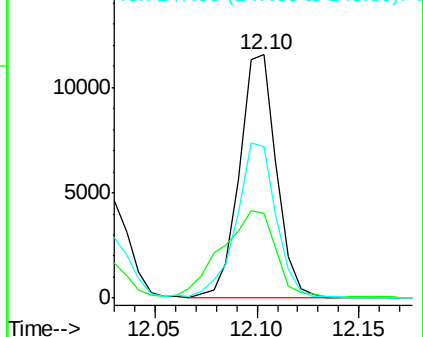
146 100

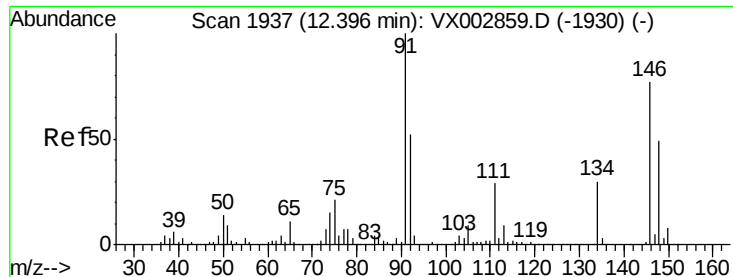
111 53.1 18.7 56.1

148 69.1 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: 2.91 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VX002997.D

Acq: 28 Jun 2018 20:33

Instrument :

MSVOA_X

ClientSampleId :

WP021MW347-180620

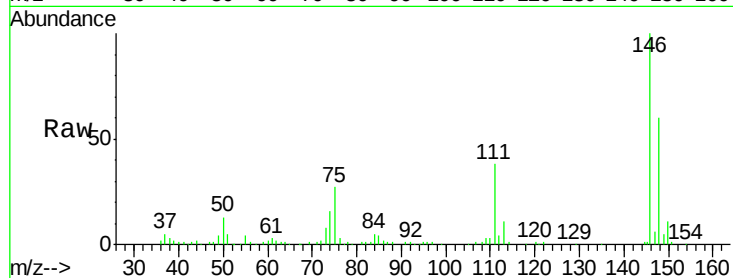
Tot Ion:146 Resp: 21473

Ion Ratio Lower Upper

146 100

111 39.9 19.4 58.1

148 64.1 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

