

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062818\
 Data File : VX002998.D
 Acq On : 28 Jun 2018 21:00
 Operator : JC/MD
 Sample : J3668-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021RW245-180620

Quant Time: Jun 29 10:02:55 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	286501	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	394171	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	368029	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	212657	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	187221	47.28	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.56%	
35) Dibromofluoromethane	5.51	113	152619	48.89	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.78%	
50) Toluene-d8	8.72	98	556473	48.82	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.64%	
62) 4-Bromofluorobenzene	11.14	95	201470	45.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.66%	

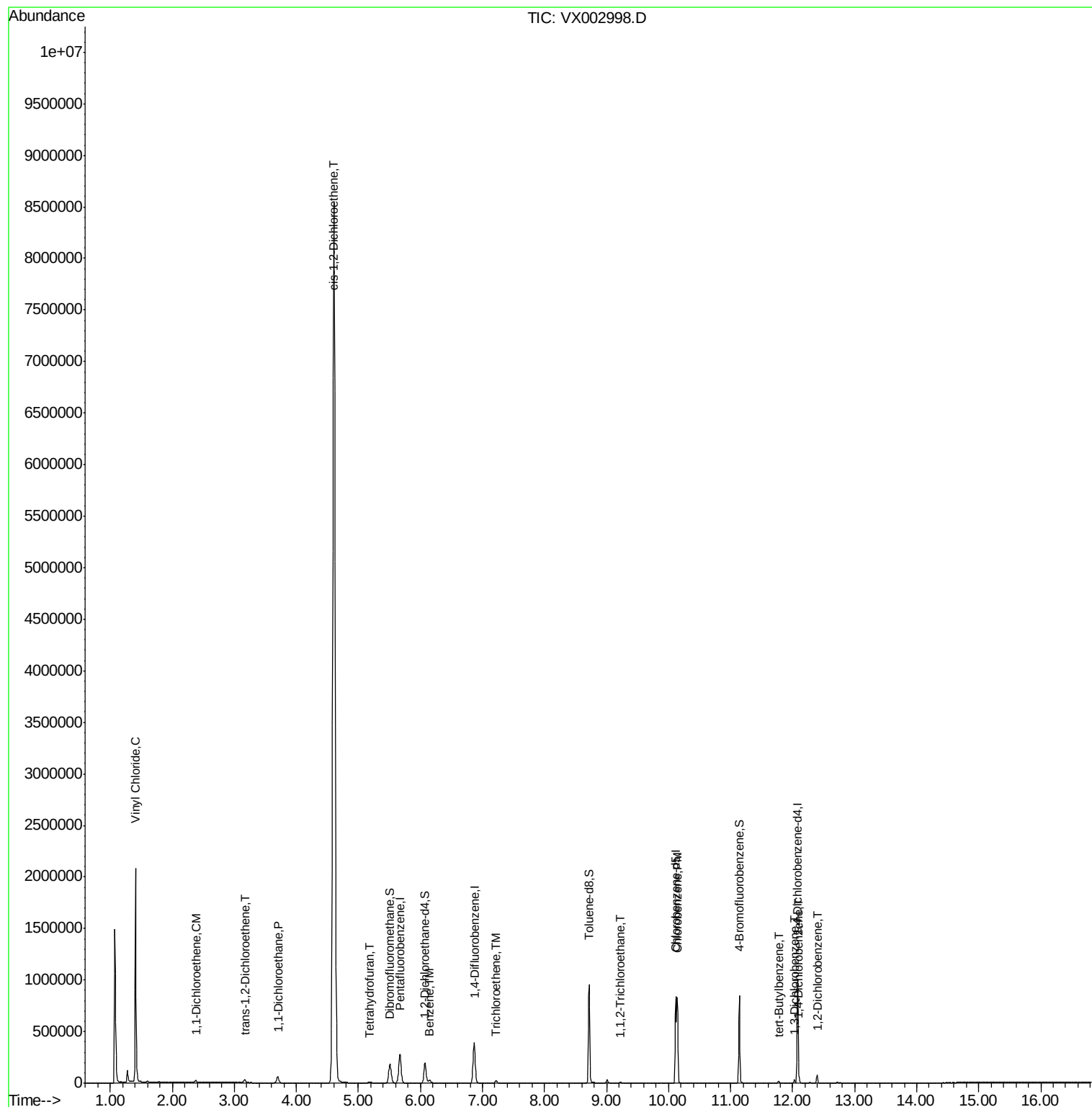
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	1361088	420.08	ug/l	99
12) 1,1-Dichloroethene	2.38	96	7498	2.65	ug/l	89
21) trans-1,2-Dichloroethene	3.17	96	11635	3.78	ug/l	94
24) 1,1-Dichloroethane	3.70	63	67718	11.70	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	5383311	1560.13	ug/l	81
29) Tetrahydrofuran	5.17	42	6964	4.46	ug/l	98
40) Benzene	6.15	78	31675	2.52	ug/l	99
44) Trichloroethene	7.21	130	9225	2.46	ug/l	96
55) 1,1,2-Trichloroethane	9.22	97	1851	0.56	ug/l	94
65) Chlorobenzene	10.14	112	340632	36.44	ug/l	99
83) tert-Butylbenzene	11.77	119	5570	0.47	ug/l	91
87) 1,3-Dichlorobenzene	12.03	146	9913	1.33	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	17982	2.35	ug/l	89
91) 1,2-Dichlorobenzene	12.40	146	25111	3.34	ug/l	100

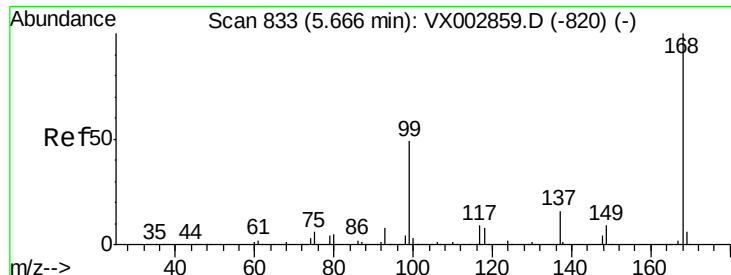
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX002998.D

Acq: 28 Jun 2018 21:00

Instrument :

MSVOA_X

ClientSampleId :

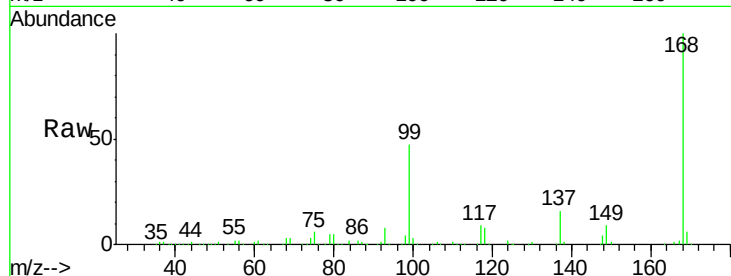
WP021RW245-180620

Tot Ion:168 Resp: 286501

Ion Ratio Lower Upper

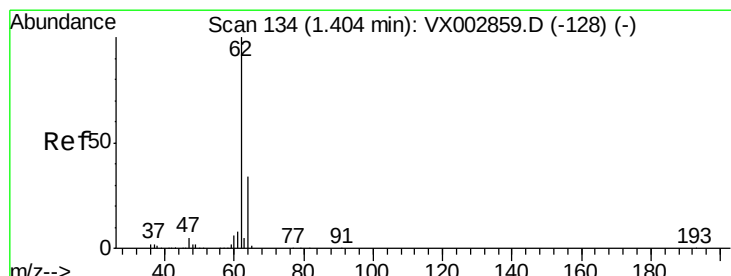
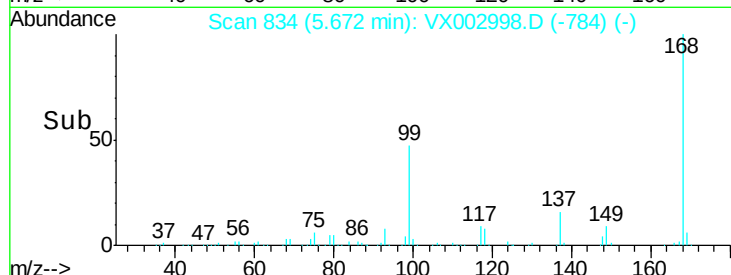
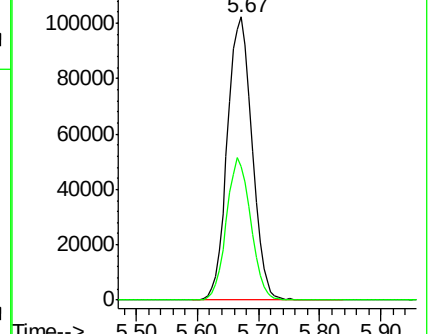
168 100

99 47.4 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: 420.08 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX002998.D

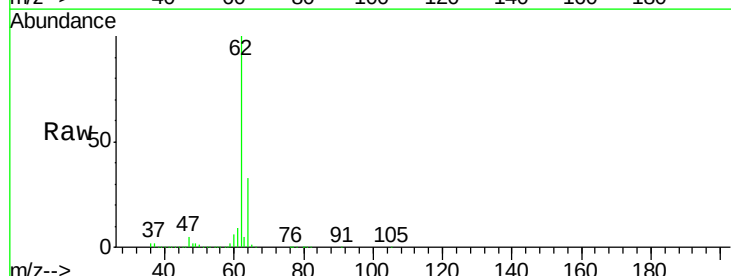
Acq: 28 Jun 2018 21:00

Tgt Ion: 62 Resp: 1361088

Ion Ratio Lower Upper

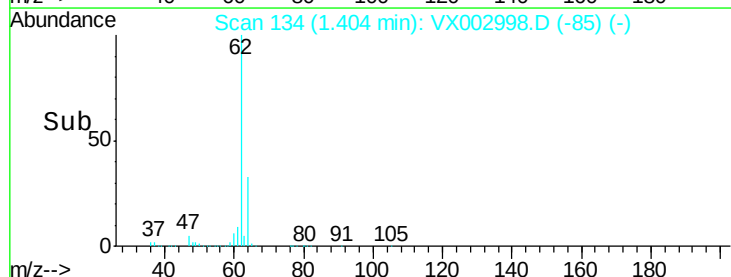
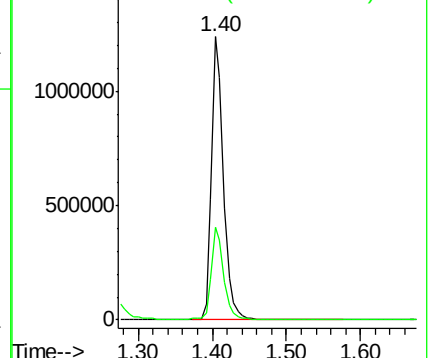
62 100

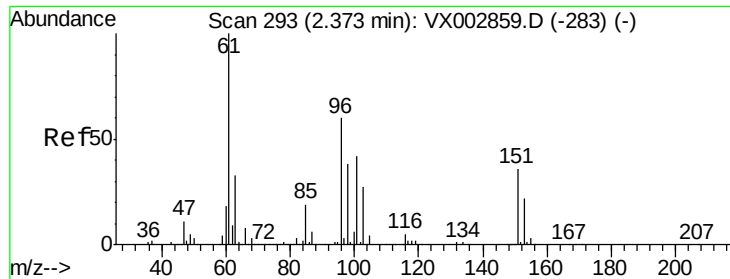
64 32.4 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#12

1,1-Dichloroethene

Concen: 2.65 ug/l

RT: 2.38 min Scan# 294

Delta R.T. 0.01 min

Lab File: VX002998.D

Acq: 28 Jun 2018 21:00

Instrument :

MSVOA_X

ClientSampleId :

WP021RW245-180620

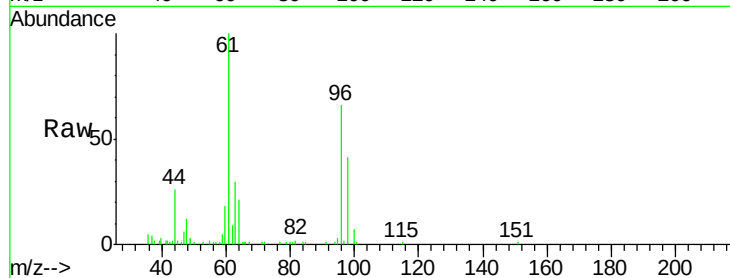
Tot Ion: 96 Resp: 7498

Ion Ratio Lower Upper

96 100

61 151.9 137.9 206.9

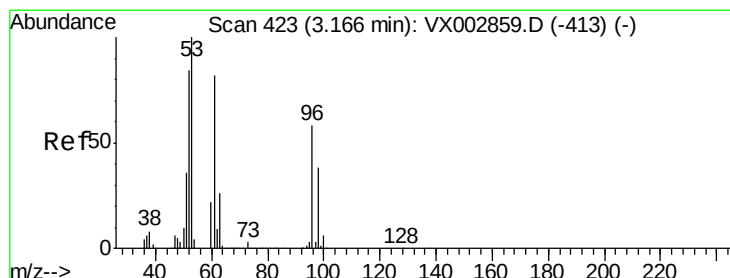
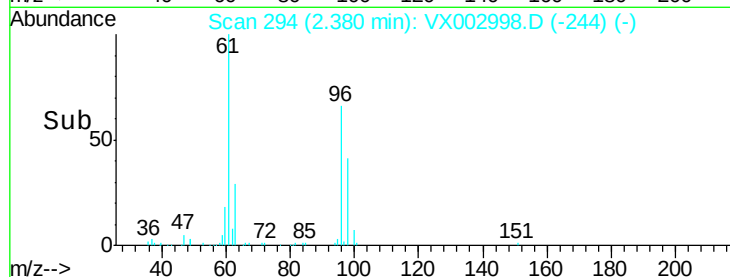
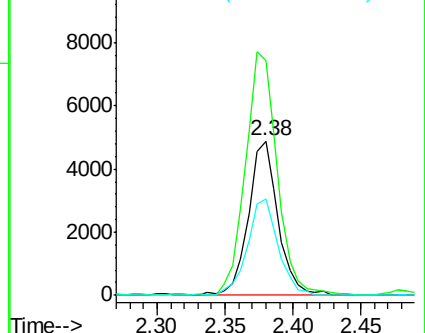
98 62.9 51.6 77.4



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: 3.78 ug/l

RT: 3.17 min Scan# 424

Delta R.T. 0.01 min

Lab File: VX002998.D

Acq: 28 Jun 2018 21:00

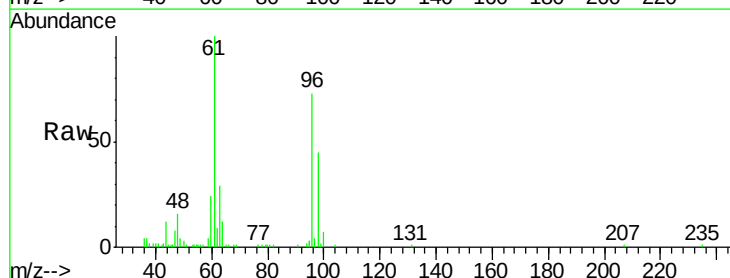
Tgt Ion: 96 Resp: 11635

Ion Ratio Lower Upper

96 100

61 137.4 117.0 175.4

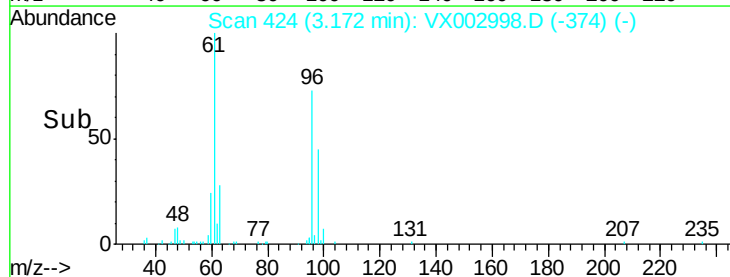
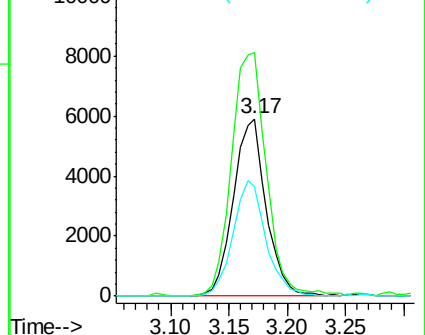
98 61.9 52.4 78.6

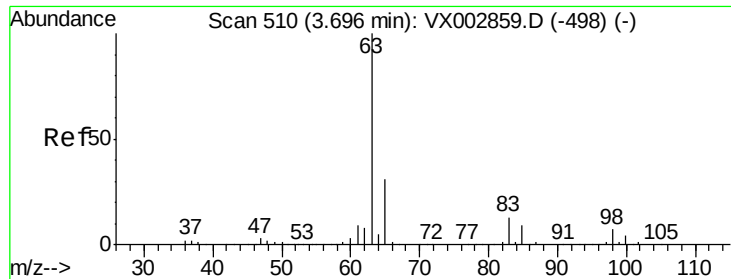


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#24

1,1-Dichloroethane

Concen: 11.70 ug/l

RT: 3.70 min Scan# 511

Delta R.T. 0.01 min

Lab File: VX002998.D

Acq: 28 Jun 2018 21:00

Instrument :

MSVOA_X

ClientSampleId :

WP021RW245-180620

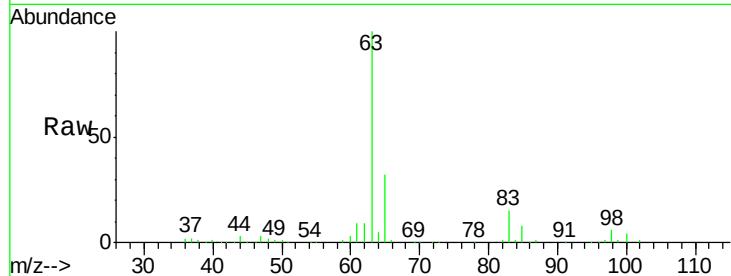
Tot Ion: 63 Resp: 67718

Ion Ratio Lower Upper

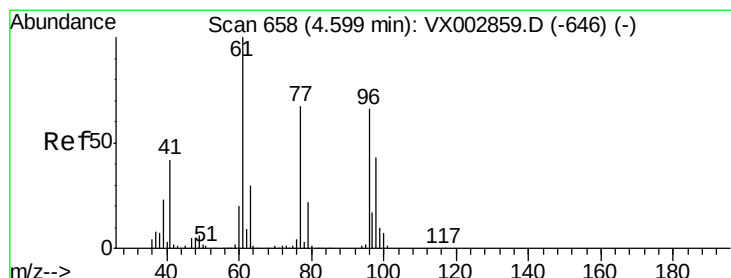
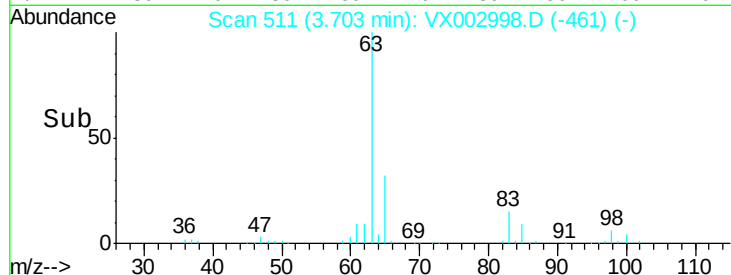
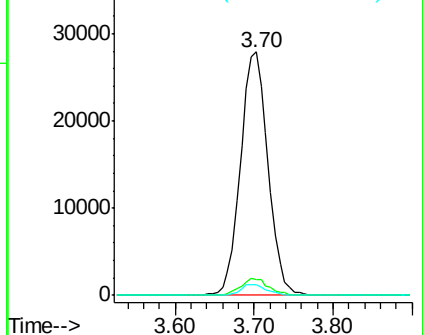
63 100

98 6.5 3.4 10.2

100 4.4 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: 1560.13 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX002998.D

Acq: 28 Jun 2018 21:00

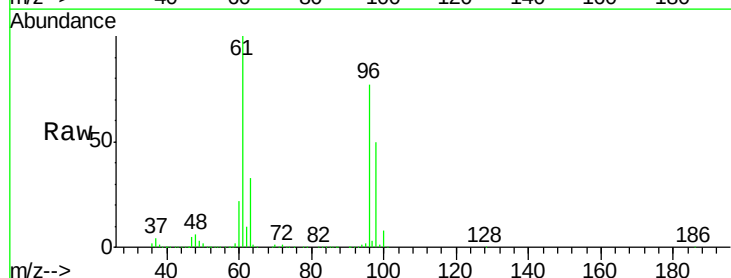
Tgt Ion: 96 Resp: 5383311

Ion Ratio Lower Upper

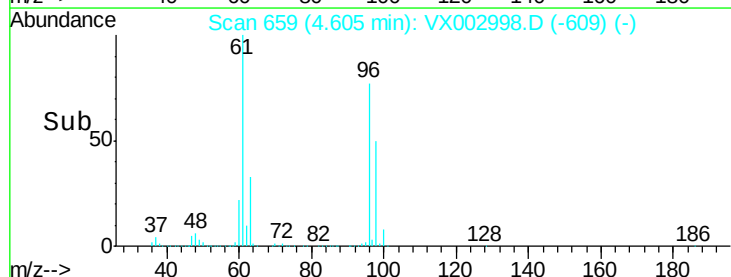
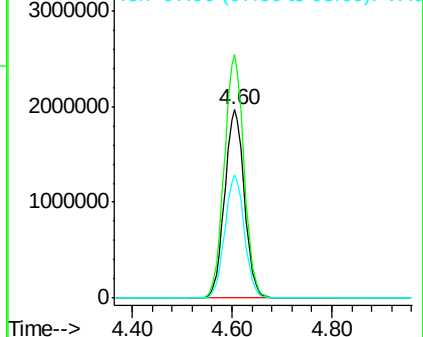
96 100

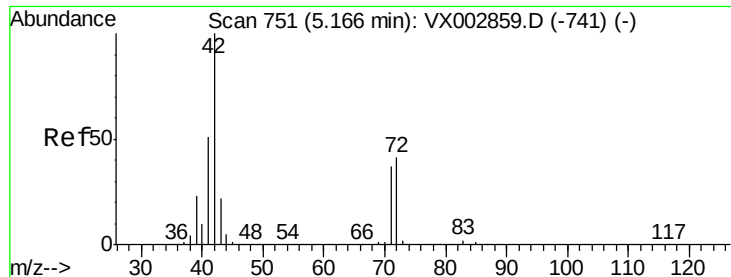
61 129.7 0.0 330.2

98 64.9 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





#29

Tetrahydrofuran

Concen: 4.46 ug/l

RT: 5.17 min Scan# 751

Delta R.T. 0.00 min

Lab File: VX002998.D

Acq: 28 Jun 2018 21:00

Instrument :

MSVOA_X

ClientSampleId :

WP021RW245-180620

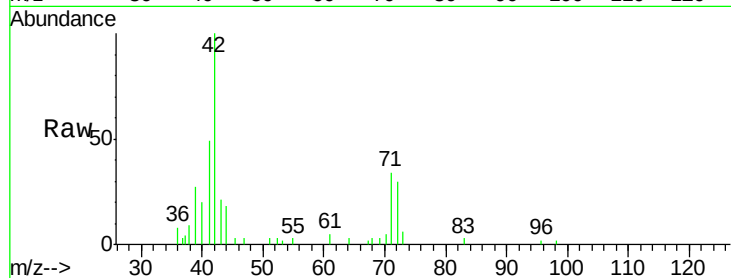
Tot Ion: 42 Resp: 6964

Ion Ratio Lower Upper

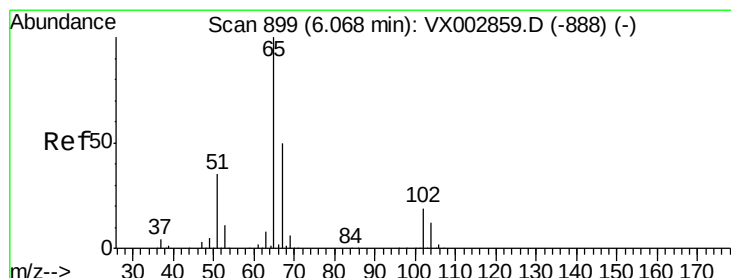
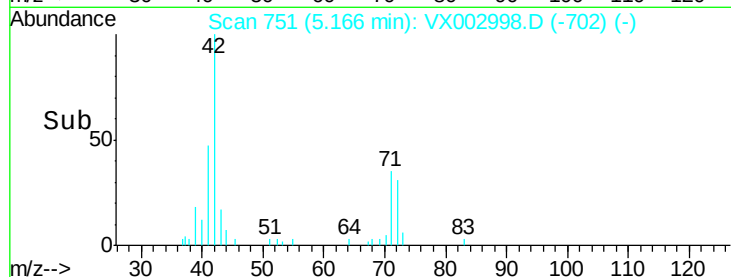
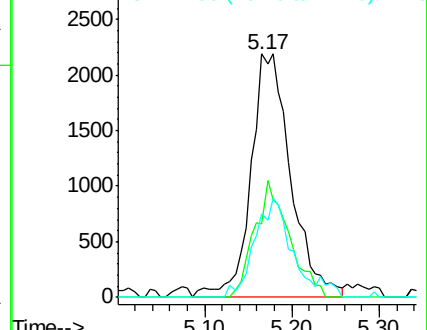
42 100

72 41.4 32.0 48.0

71 36.2 30.1 45.1



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.28 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX002998.D

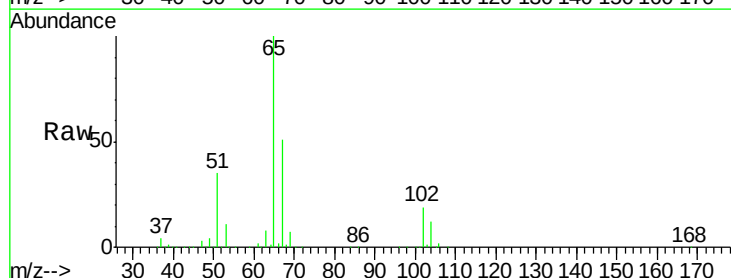
Acq: 28 Jun 2018 21:00

Tgt Ion: 65 Resp: 187221

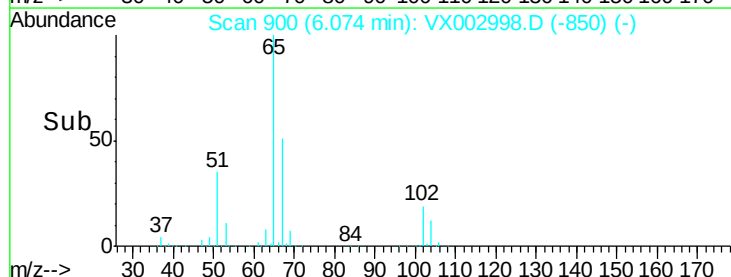
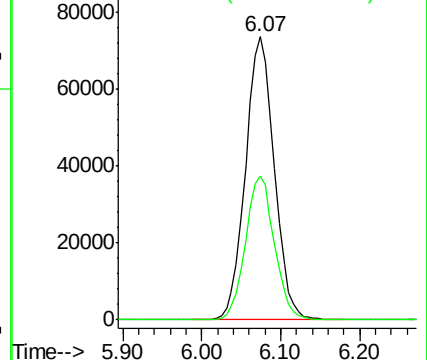
Ion Ratio Lower Upper

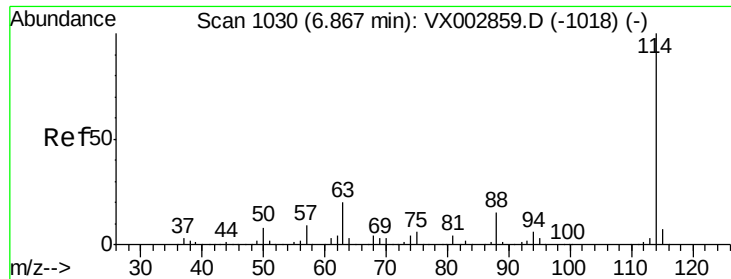
65 100

67 50.9 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

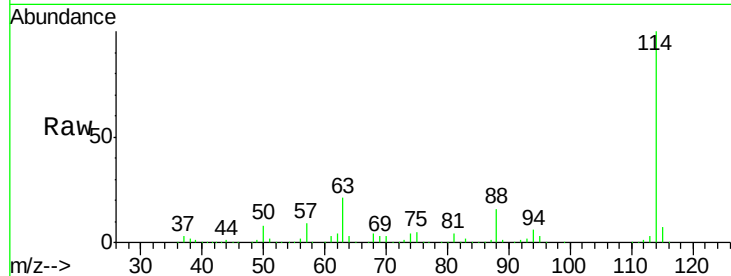




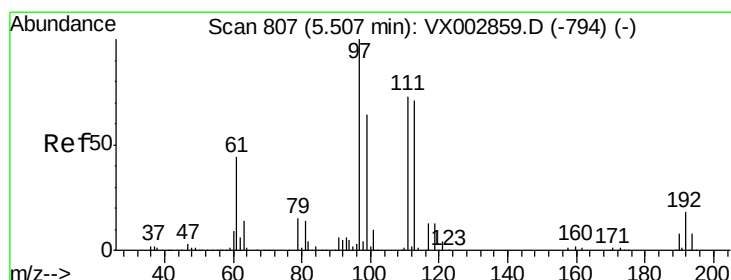
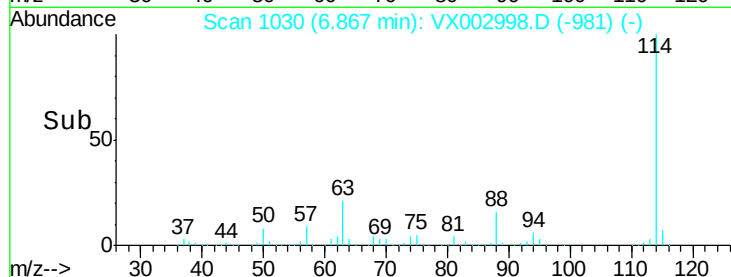
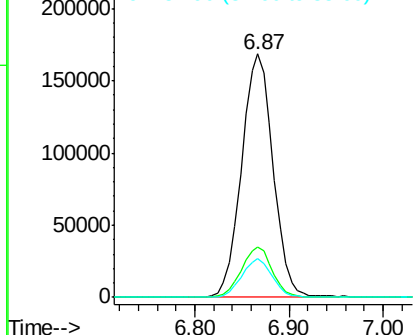
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.87 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VX002998.D
Acq: 28 Jun 2018 21:00

Instrument :
MSVOA_X
ClientSampleId :
WP021RW245-180620

Tot Ion:114 Resp: 394171
Ion Ratio Lower Upper
114 100
63 20.7 0.0 41.4
88 15.8 0.0 30.0

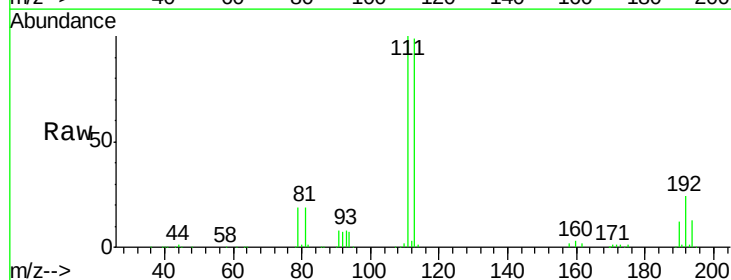


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

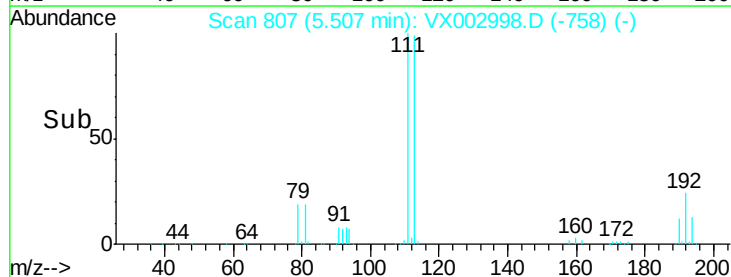
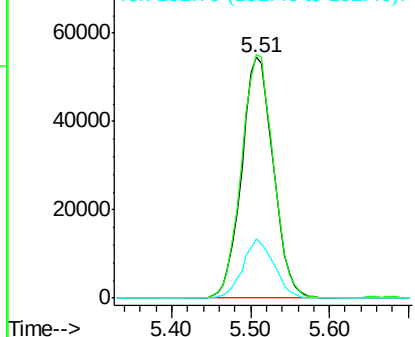


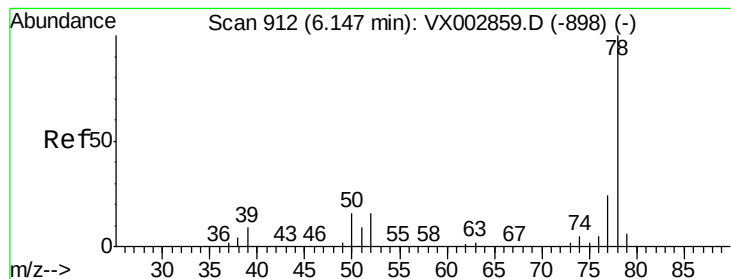
#35
Dibromofluoromethane
Concen: 48.89 ug/l
RT: 5.51 min Scan# 807
Delta R.T. 0.00 min
Lab File: VX002998.D
Acq: 28 Jun 2018 21:00

Tgt Ion:113 Resp: 152619
Ion Ratio Lower Upper
113 100
111 101.8 81.4 122.0
192 24.0 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: 2.52 ug/l

RT: 6.15 min Scan# 912

Delta R.T. 0.00 min

Lab File: VX002998.D

Acq: 28 Jun 2018 21:00

Instrument :

MSVOA_X

ClientSampleId :

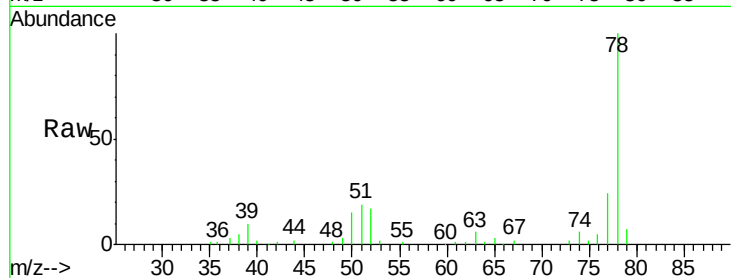
WP021RW245-180620

Tot Ion: 78 Resp: 31675

Ion Ratio Lower Upper

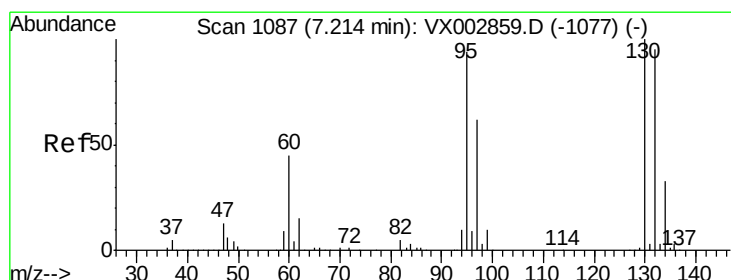
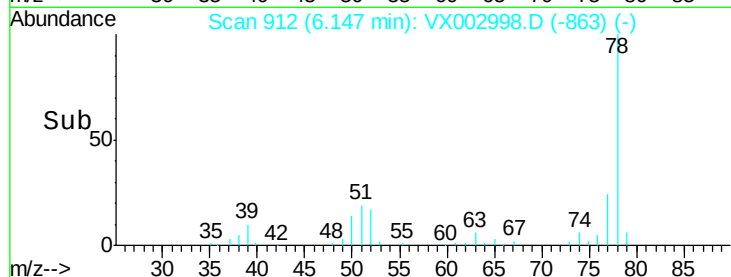
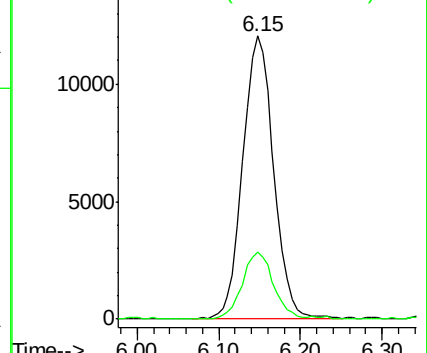
78 100

77 23.5 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: 2.46 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX002998.D

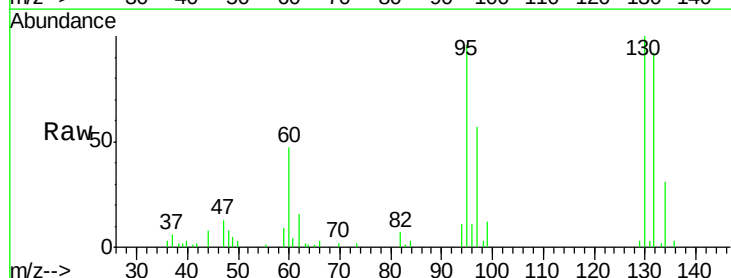
Acq: 28 Jun 2018 21:00

Tgt Ion: 130 Resp: 9225

Ion Ratio Lower Upper

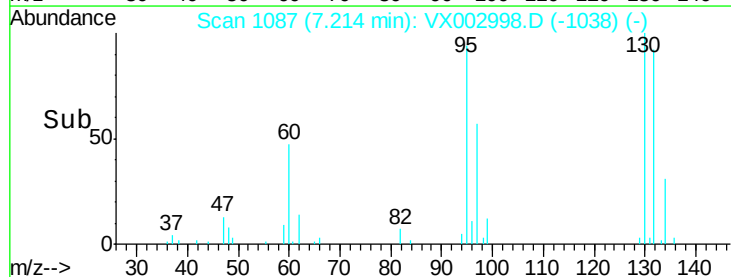
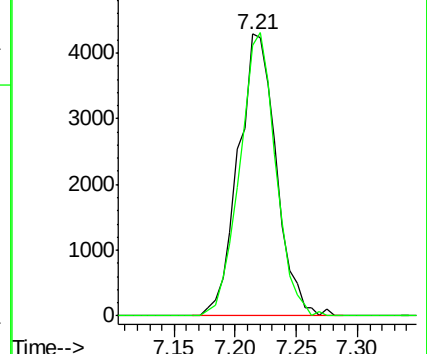
130 100

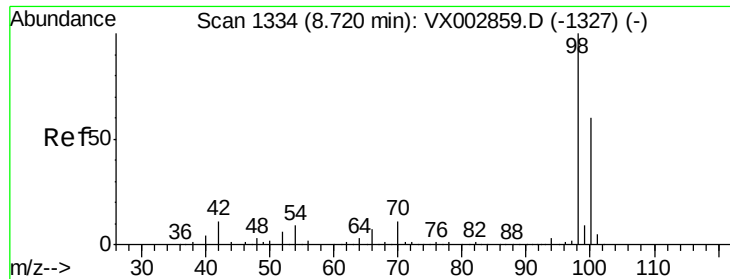
95 96.3 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 48.82 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002998.D

Acq: 28 Jun 2018 21:00

Instrument :

MSVOA_X

ClientSampleId :

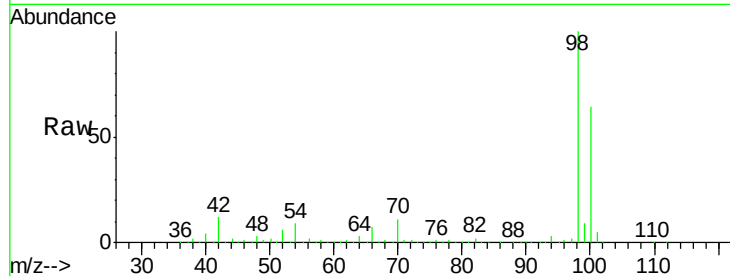
WP021RW245-180620

Tot Ion: 98 Resp: 556473

Ion Ratio Lower Upper

98 100

100 63.2 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.72

400000

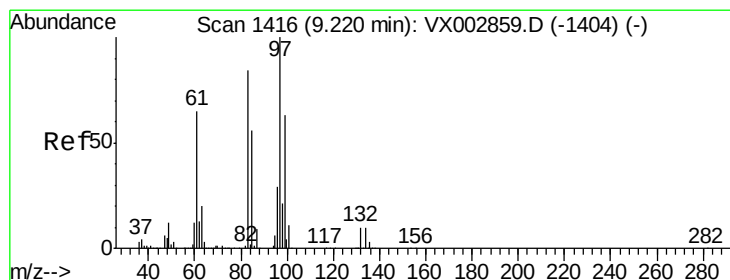
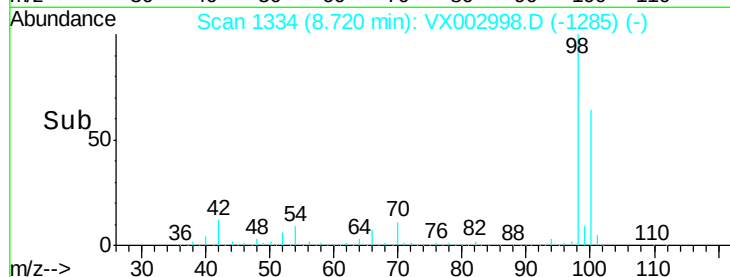
300000

200000

100000

0

Time-->



#55

1,1,2-Trichloroethane

Concen: 0.56 ug/l

RT: 9.22 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VX002998.D

Acq: 28 Jun 2018 21:00

Tgt Ion: 97 Resp: 1851

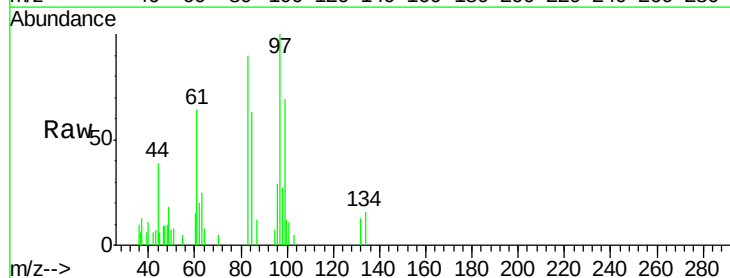
Ion Ratio Lower Upper

97 100

83 90.1 70.2 105.2

85 63.0 44.9 67.3

99 69.1 49.8 74.8



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

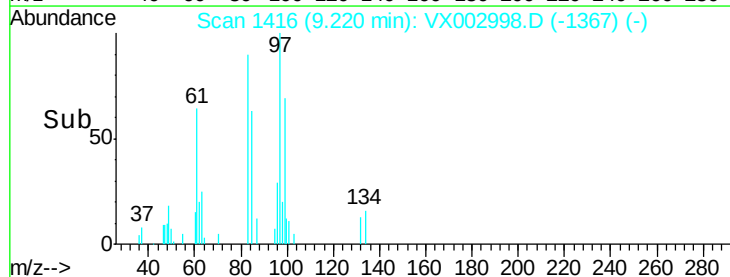
1500

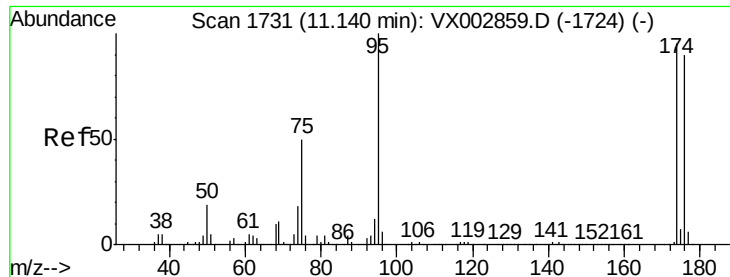
1000

500

0

Time-->





#62

4-Bromofluorobenzene

Concen: 45.83 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002998.D

Acq: 28 Jun 2018 21:00

Instrument :

MSVOA_X

ClientSampleId :

WP021RW245-180620

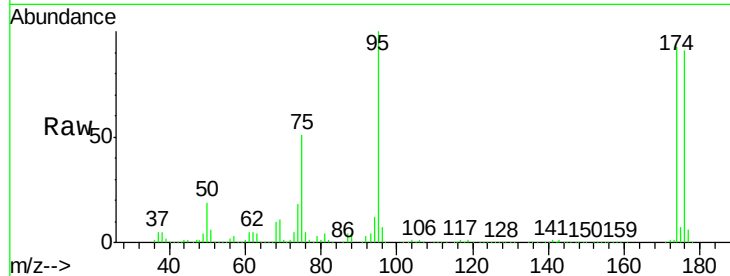
Tot Ion: 95 Resp: 201470

Ion Ratio Lower Upper

95 100

174 95.0 0.0 187.4

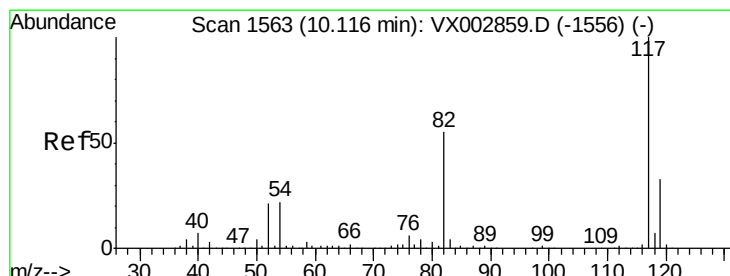
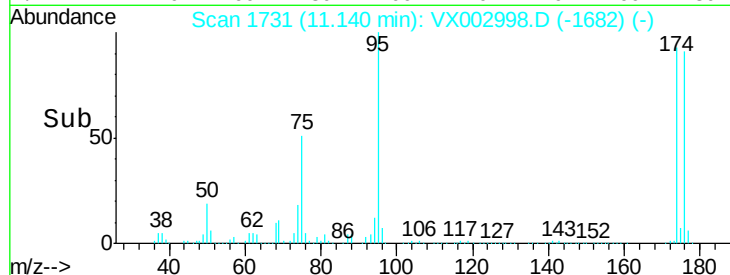
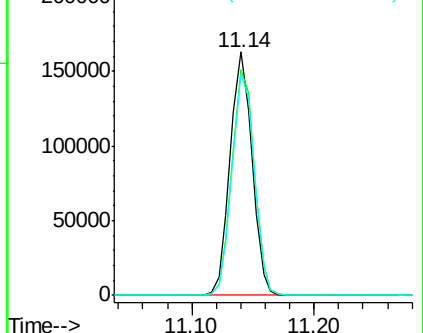
176 92.7 0.0 181.0



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: VX002998.D

Acq: 28 Jun 2018 21:00

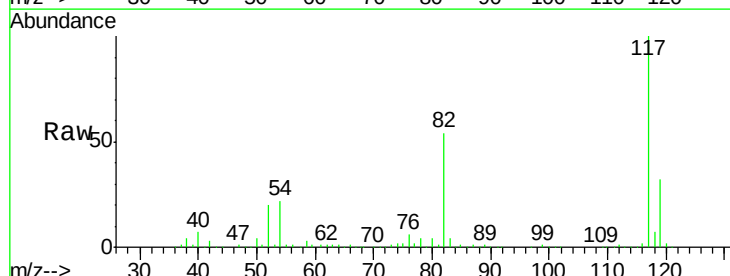
Tgt Ion: 117 Resp: 368029

Ion Ratio Lower Upper

117 100

82 54.0 45.0 67.4

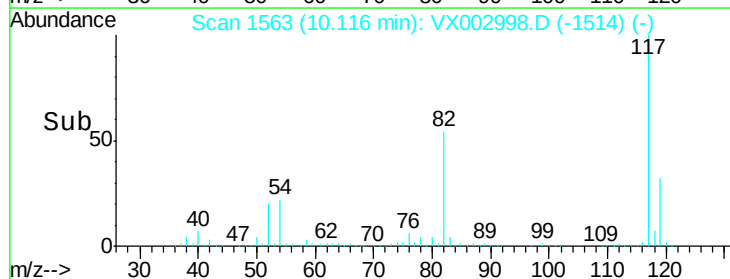
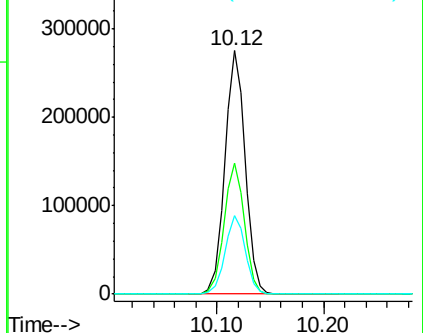
119 32.0 25.8 38.6

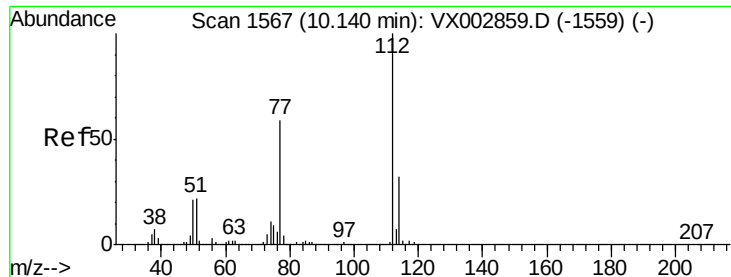


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#65

Chlorobenzene

Concen: 36.44 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VX002998.D

Acq: 28 Jun 2018 21:00

Instrument :

MSVOA_X

ClientSampleId :

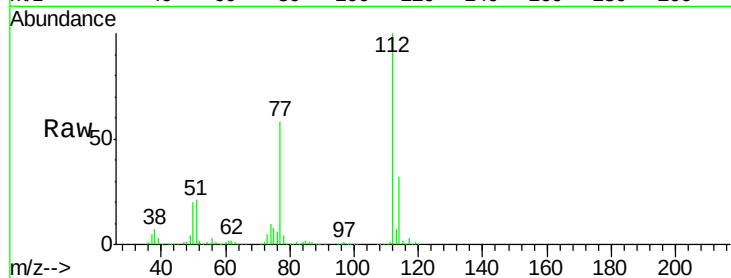
WP021RW245-180620

Tot Ion:112 Resp: 340632

Ion Ratio Lower Upper

112 100

114 32.2 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

10.14

250000

200000

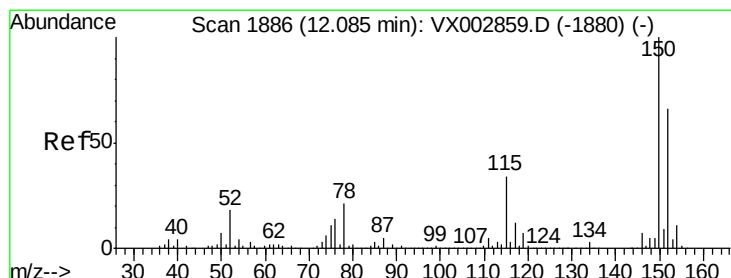
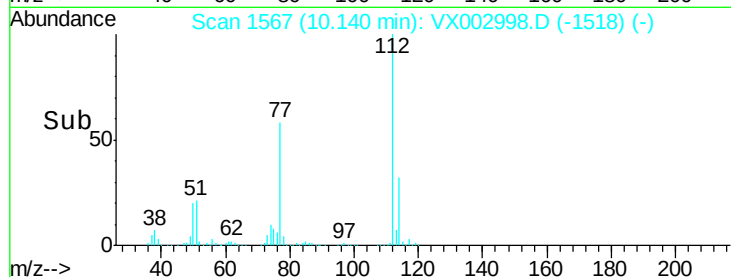
150000

100000

50000

0

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX002998.D

Acq: 28 Jun 2018 21:00

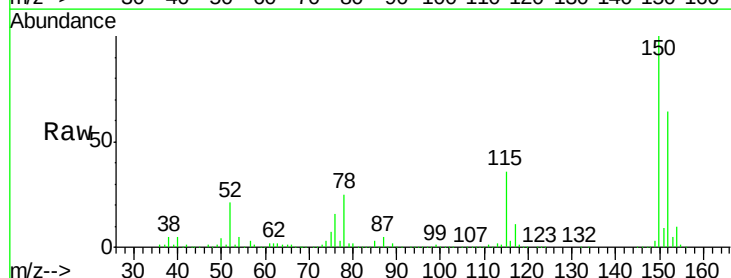
Tgt Ion:152 Resp: 212657

Ion Ratio Lower Upper

152 100

115 54.4 40.1 120.2

150 156.5 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

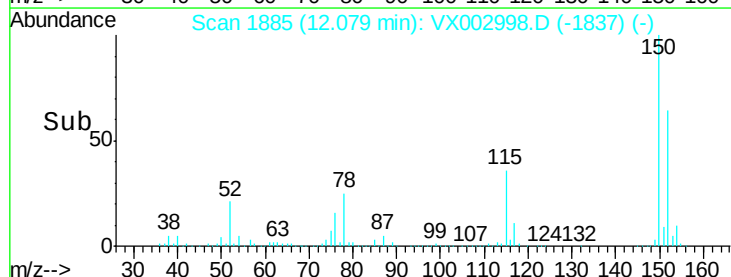
300000

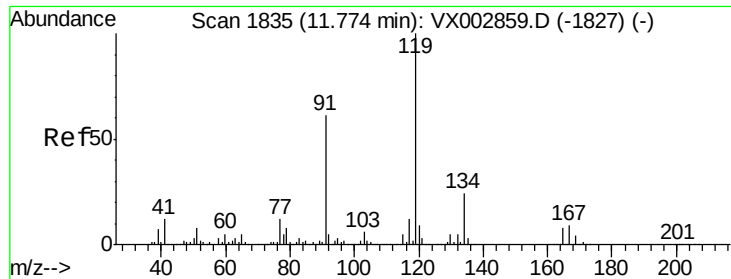
200000

100000

0

Time-->

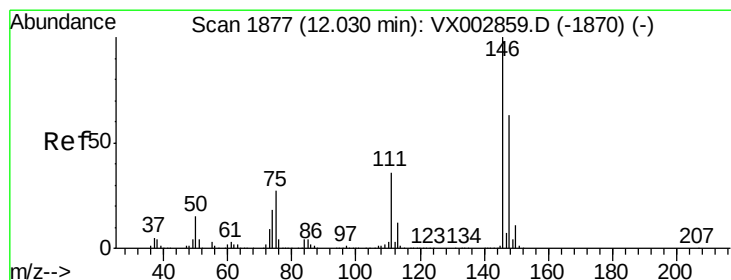
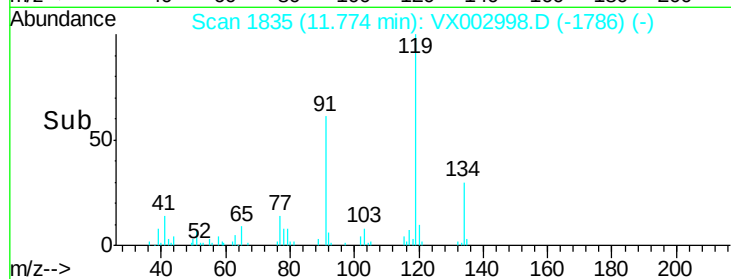
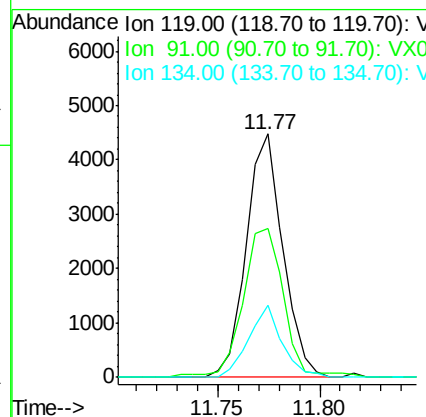
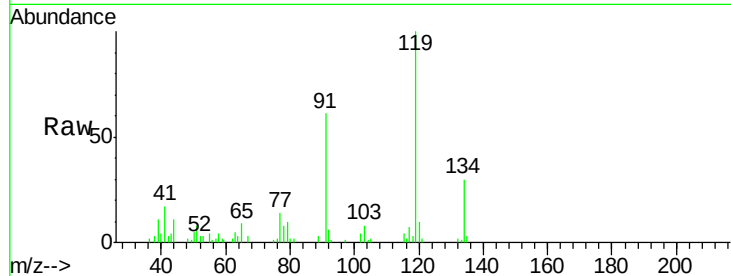




#83
 tert-Butylbenzene
 Concen: 0.47 ug/l
 RT: 11.77 min Scan# 1835
 Delta R.T. 0.00 min
 Lab File: VX002998.D
 Acq: 28 Jun 2018 21:00

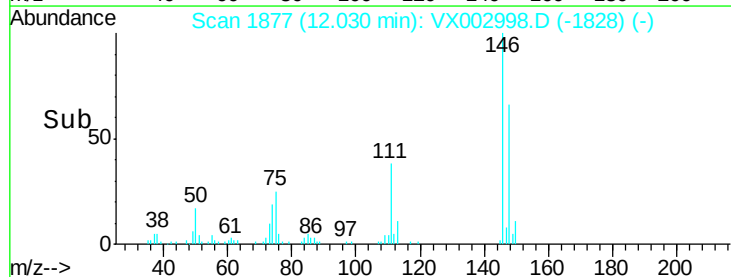
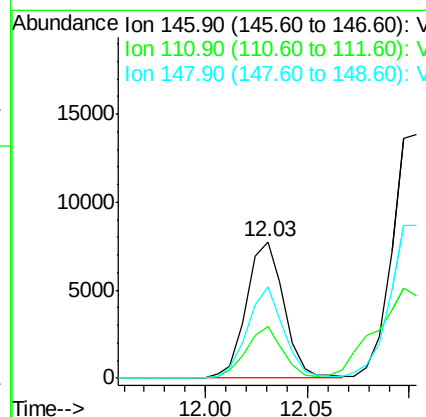
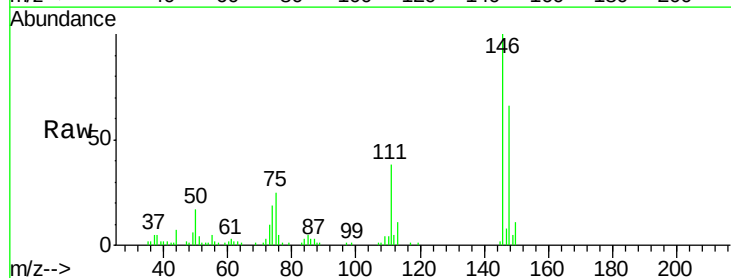
Instrument :
 MSVOA_X
 ClientSampleId :
 WP021RW245-180620

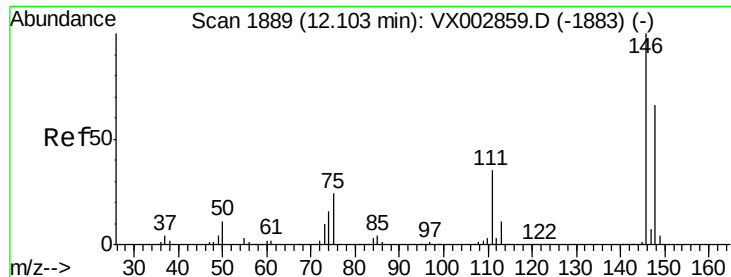
Tot Ion:119 Resp: 5570
 Ion Ratio Lower Upper
 119 100
 91 67.9 30.3 90.9
 134 27.1 11.7 35.1



#87
 1,3-Dichlorobenzene
 Concen: 1.33 ug/l
 RT: 12.03 min Scan# 1877
 Delta R.T. 0.00 min
 Lab File: VX002998.D
 Acq: 28 Jun 2018 21:00

Tgt Ion:146 Resp: 9913
 Ion Ratio Lower Upper
 146 100
 111 37.0 18.9 56.7
 148 64.7 32.1 96.3





#88

1,4-Dichlorobenzene

Concen: 2.35 ug/l

RT: 12.10 min Scan# 1889

Delta R.T. 0.00 min

Lab File: VX002998.D

Acq: 28 Jun 2018 21:00

Instrument :

MSVOA_X

ClientSampleId :

WP021RW245-180620

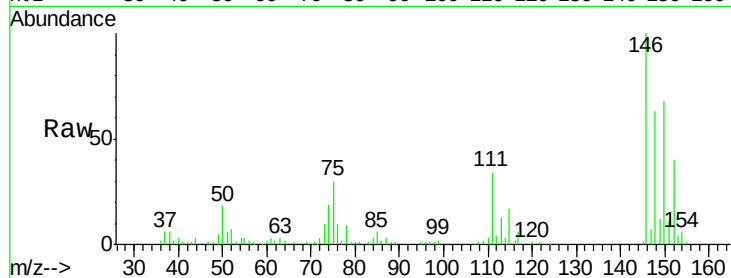
Tot Ion:146 Resp: 17982

Ion Ratio Lower Upper

146 100

111 50.8 18.7 56.1

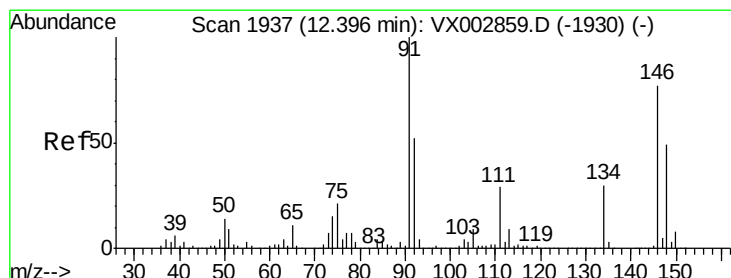
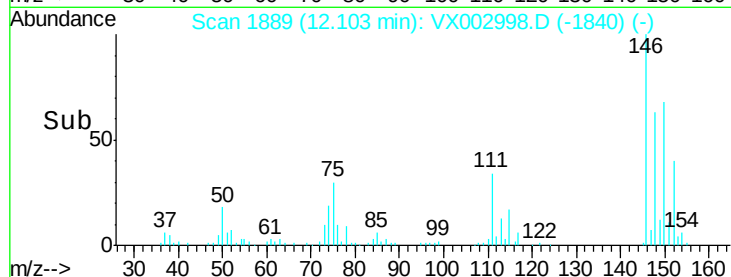
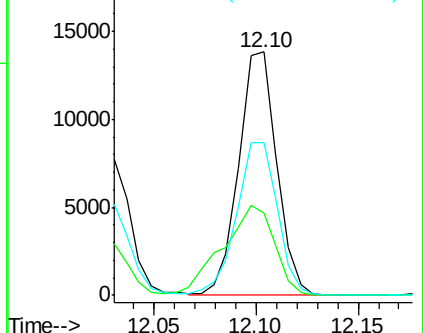
148 67.6 32.4 97.0



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: 3.34 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VX002998.D

Acq: 28 Jun 2018 21:00

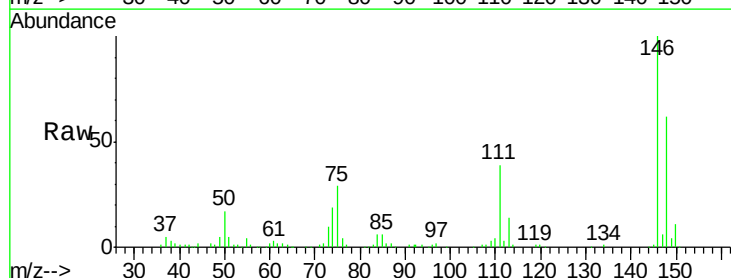
Tgt Ion:146 Resp: 25111

Ion Ratio Lower Upper

146 100

111 39.0 19.4 58.1

148 63.6 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

