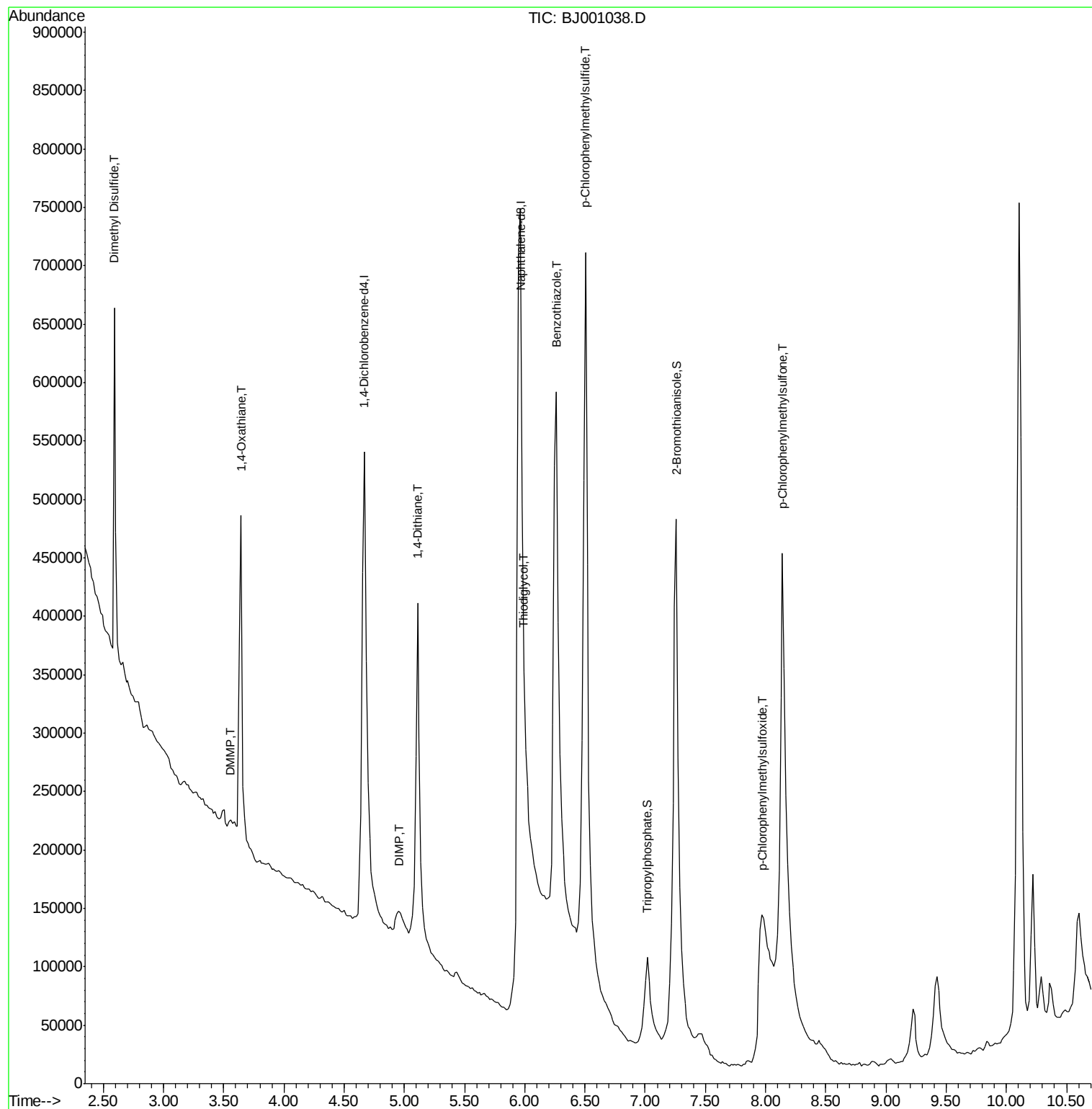
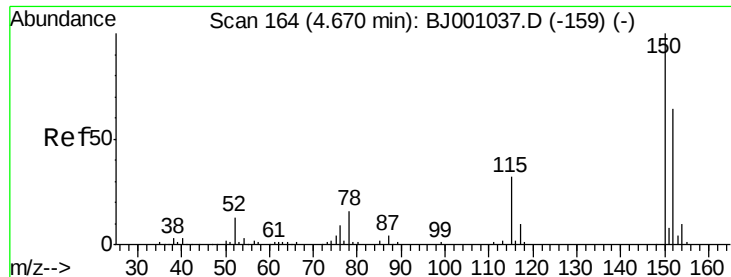


Data Path : Z:\HPCHEM1\BNA_J\DATA\BJ072012\
Data File : BJ001038.D
Acq On : 20 Jul 2012 12:42
Operator : HLM
Sample : CWA-3
Misc : BNA_J HLM
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 21 05:00:24 2012
Quant Method : H:\VOL1\GCMSDATA\J\METHODS\BJ072012.M
Quant Title : CWA degradation products by GCMS
QLast Update : Fri Jul 20 13:59:18 2012
Response via : Initial Calibration

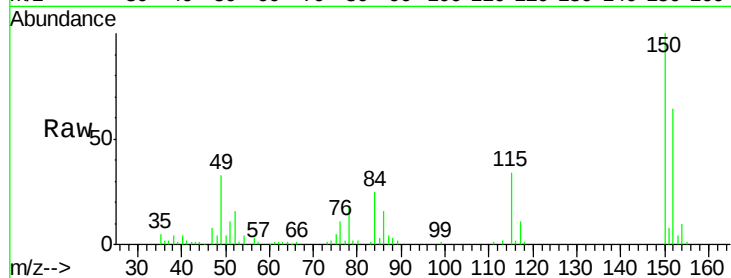




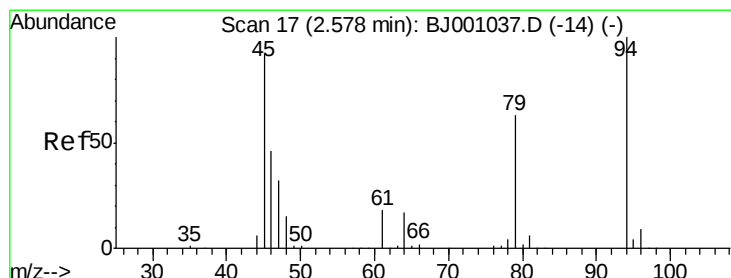
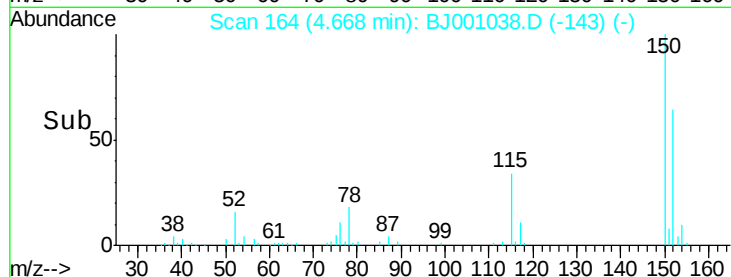
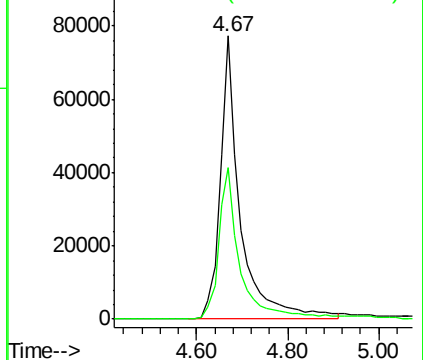
#1

1,4-Dichlorobenzene-d4
Concen: 2.00 ug/mL
RT: 4.67 min Scan# 164
Delta R.T. -0.00 min
Lab File: BJ001038.D
Acq: 20 Jul 2012 12:42

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.7	29.0	69.0



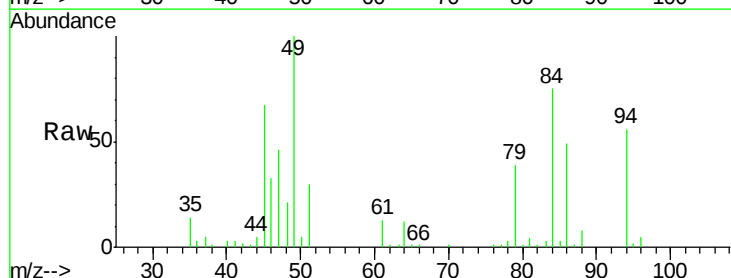
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 115.00 (114.70 to 115.70): E



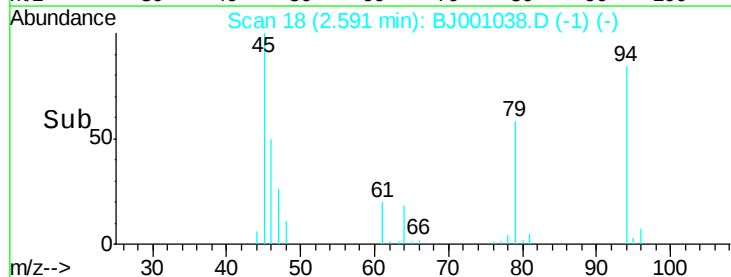
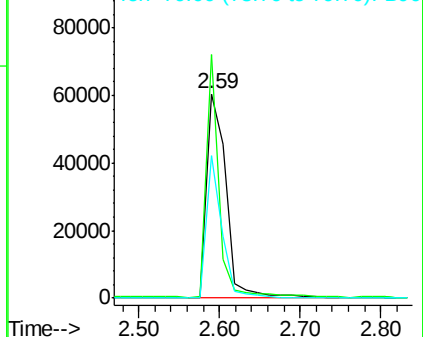
#2

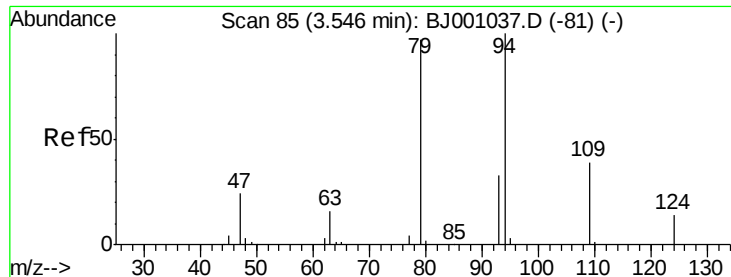
Dimethyl Disulfide
Concen: 1.25 ug/mL
RT: 2.59 min Scan# 18
Delta R.T. 0.01 min
Lab File: BJ001038.D
Acq: 20 Jul 2012 12:42

Tgt Ion	Ratio	Lower	Upper
94	100		
45	119.2	75.2	115.2#
79	69.5	43.1	83.1



Abundance Ion 94.00 (93.70 to 94.70): BJ0
Ion 45.00 (44.70 to 45.70): BJ0
Ion 79.00 (78.70 to 79.70): BJ0





#3

DMMP

Concen: 0.60 ug/mL m

RT: 3.56 min Scan# 86

Delta R.T. 0.01 min

Lab File: BJ001038.D

Acq: 20 Jul 2012 12:42

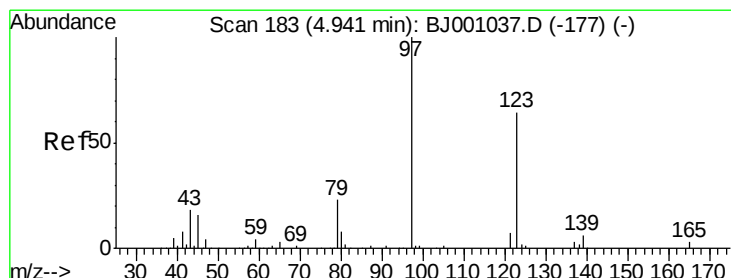
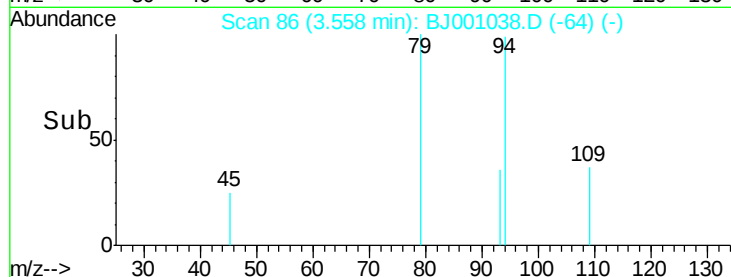
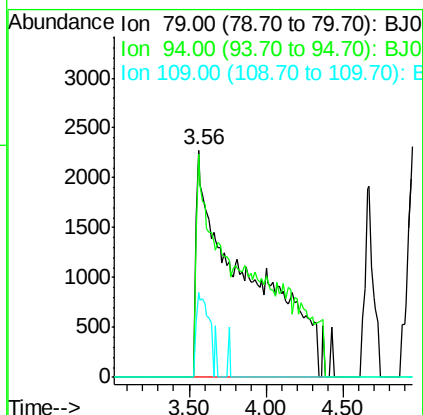
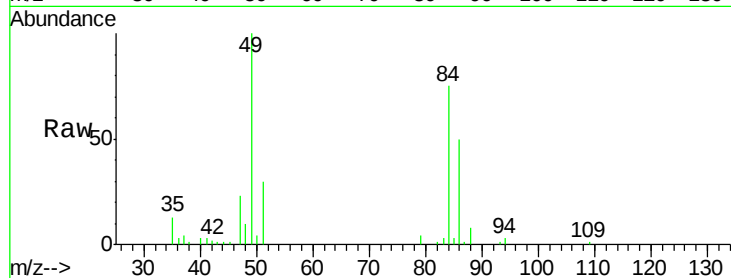
Tgt Ion: 79 Resp: 50695

Ion Ratio Lower Upper

79 100

94 98.5 83.0 123.0

109 37.4 20.0 60.0



#4

DIMP

Concen: 0.50 ug/mL m

RT: 4.95 min Scan# 184

Delta R.T. 0.01 min

Lab File: BJ001038.D

Acq: 20 Jul 2012 12:42

Tgt Ion: 97 Resp: 100419

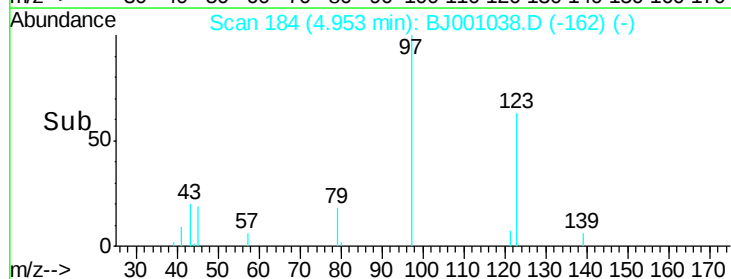
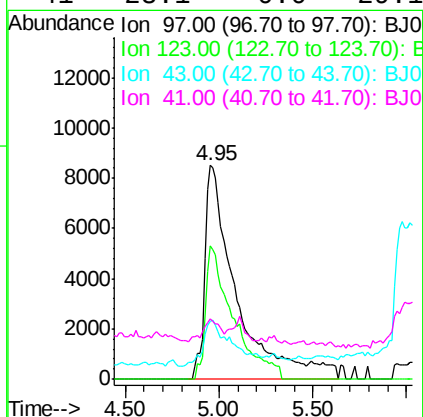
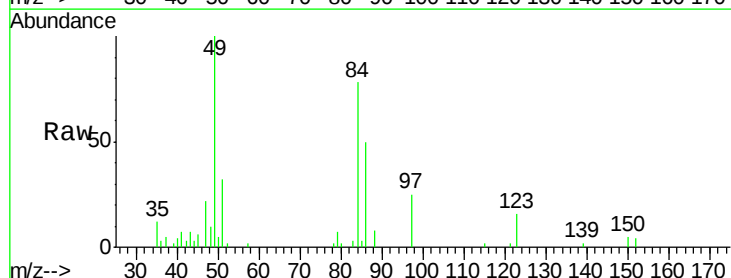
Ion Ratio Lower Upper

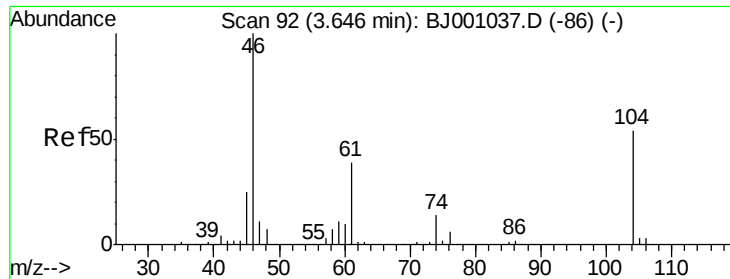
97 100

123 62.6 43.8 83.8

43 26.9 0.0 38.6

41 28.1 0.0 29.1





#5

1,4-Oxathiane

Concen: 1.74 ug/mL

RT: 3.64 min Scan# 92

Delta R.T. -0.00 min

Lab File: BJ001038.D

Acq: 20 Jul 2012 12:42

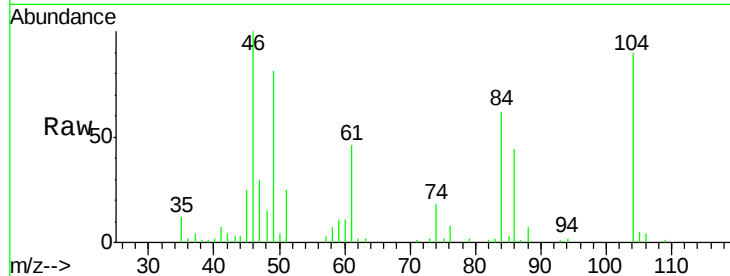
Tgt Ion: 46 Resp: 137754

Ion Ratio Lower Upper

46 100

61 46.0 19.4 59.4

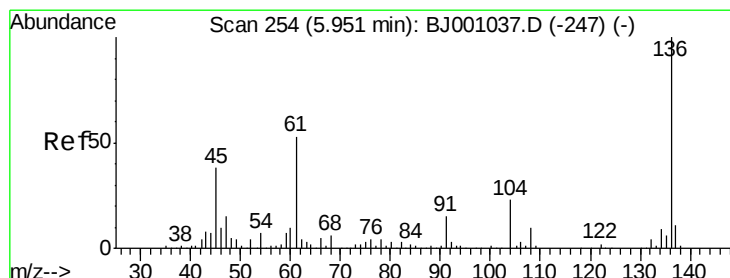
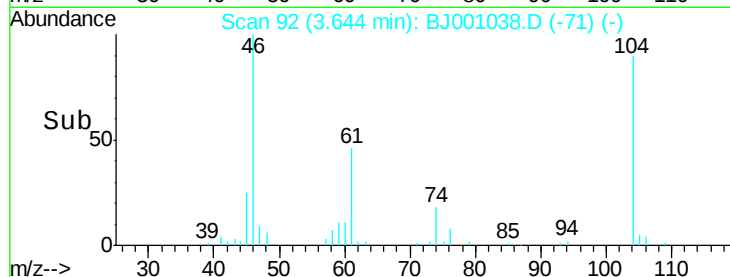
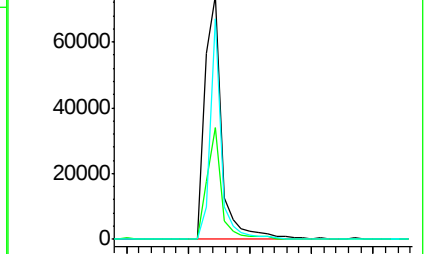
104 90.4 34.1 74.1#



Abundance Ion 46.00 (45.70 to 46.70): BJ001037.D (-86) (-)

Ion 61.00 (60.70 to 61.70): BJ001037.D (-86) (-)

Ion 104.00 (103.70 to 104.70): BJ001037.D (-86) (-)



#6

Naphthalene-d8

Concen: 2.00 ug/mL

RT: 5.96 min Scan# 255

Delta R.T. 0.01 min

Lab File: BJ001038.D

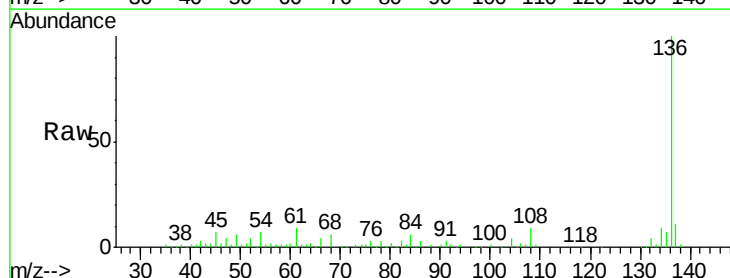
Acq: 20 Jul 2012 12:42

Tgt Ion: 136 Resp: 1006349

Ion Ratio Lower Upper

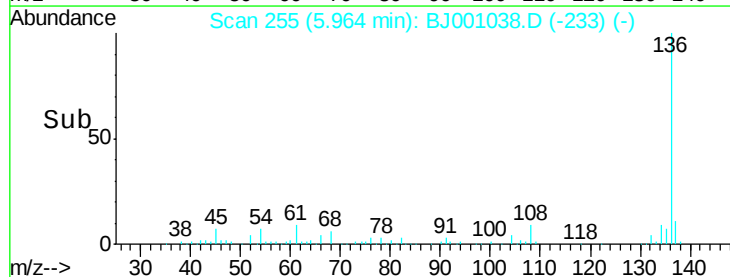
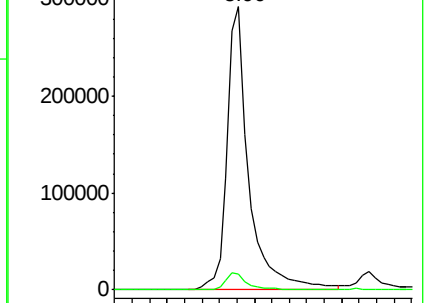
136 100

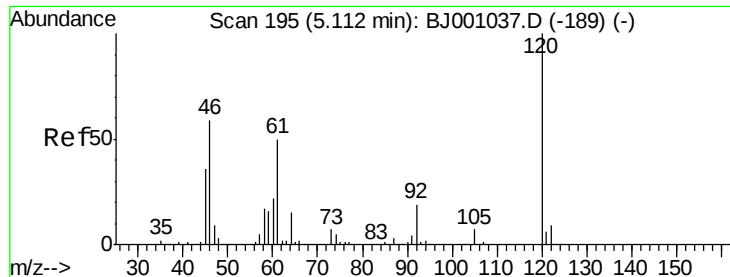
68 5.6 0.0 25.5



Abundance Ion 136.00 (135.70 to 136.70): BJ001037.D (-247) (-)

Ion 68.00 (67.70 to 68.70): BJ001037.D (-247) (-)





#7

1,4-Dithiane

Concen: 1.71 ug/mL

RT: 5.11 min Scan# 195

Delta R.T. -0.00 min

Lab File: BJ001038.D

Acq: 20 Jul 2012 12:42

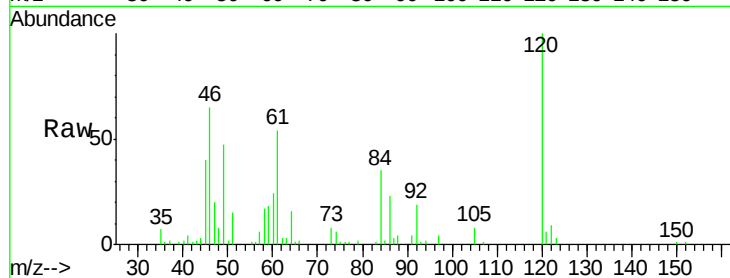
Tgt Ion: 46 Resp: 122764

Ion Ratio Lower Upper

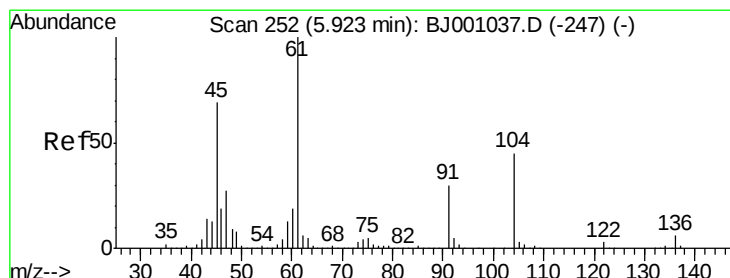
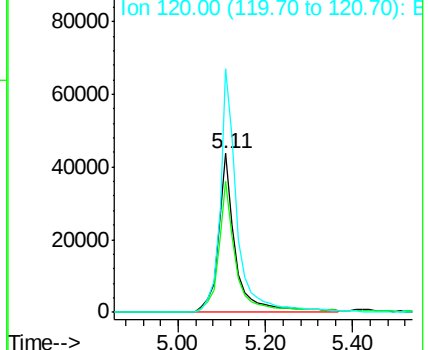
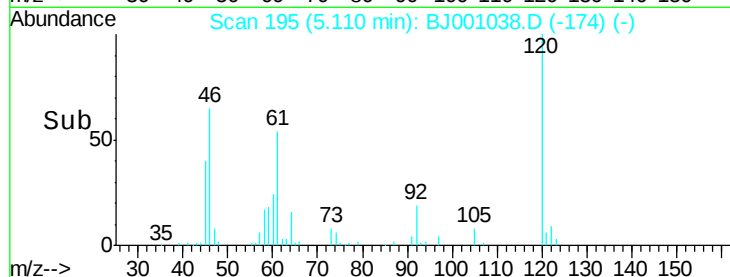
46 100

61 82.8 63.7 103.7

120 153.5 148.0 188.0



Abundance Ion 46.00 (45.70 to 46.70): BJ0
Ion 61.00 (60.70 to 61.70): BJ0
Ion 120.00 (119.70 to 120.70): BJ0



#8

Thiodiglycol

Concen: 14.36 ug/mL m

RT: 5.99 min Scan# 257

Delta R.T. 0.07 min

Lab File: BJ001038.D

Acq: 20 Jul 2012 12:42

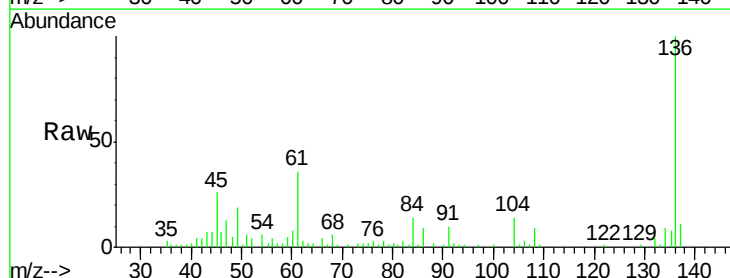
Tgt Ion: 61 Resp: 779144

Ion Ratio Lower Upper

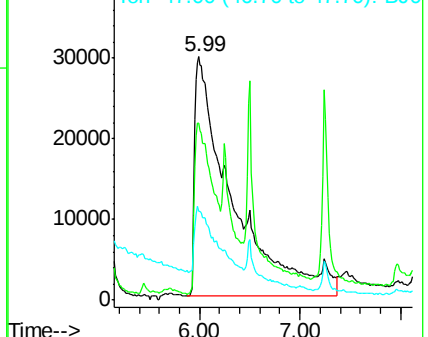
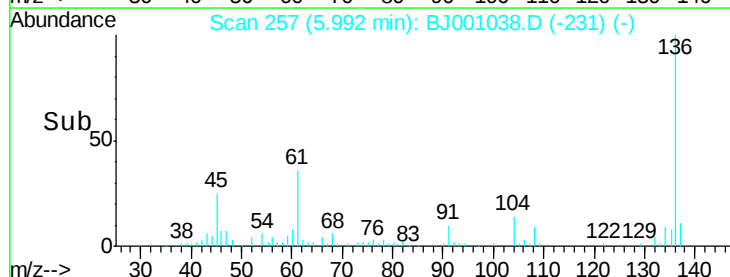
61 100

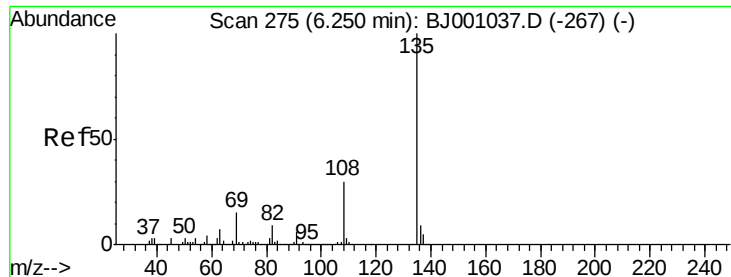
45 72.7 49.0 89.0

47 36.3 7.6 47.6



Abundance Ion 61.00 (60.70 to 61.70): BJ0
Ion 45.00 (44.70 to 45.70): BJ0
Ion 47.00 (46.70 to 47.70): BJ0





#9

Benzothiazole

Concen: 2.34 ug/mL

RT: 6.26 min Scan# 276

Delta R.T. 0.01 min

Lab File: BJ001038.D

Acq: 20 Jul 2012 12:42

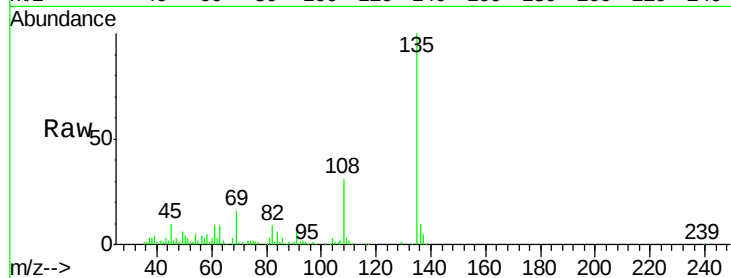
Tgt Ion:135 Resp: 646710

Ion Ratio Lower Upper

135 100

108 31.3 9.9 49.9

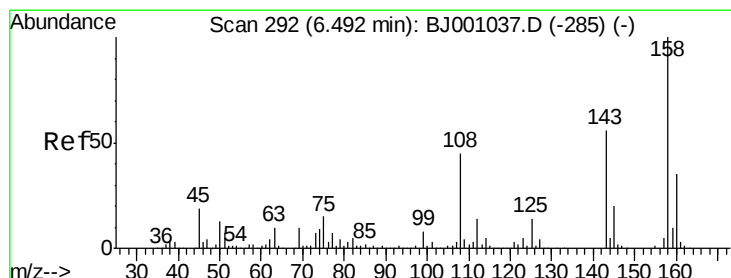
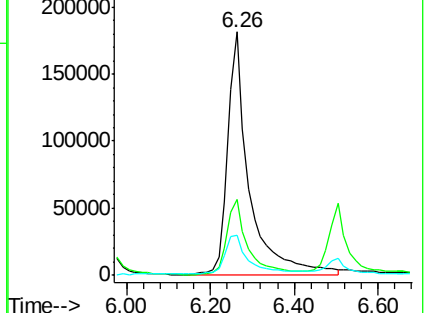
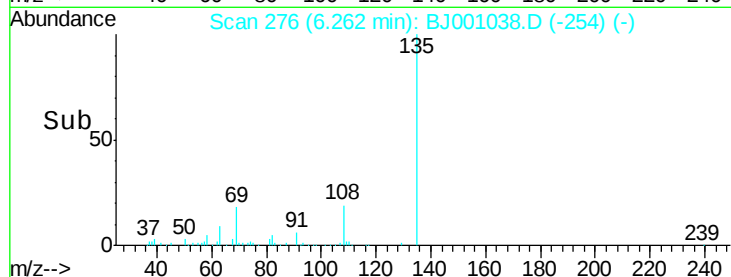
69 16.3 0.0 35.1



Abundance Ion 135.00 (134.70 to 135.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 69.00 (68.70 to 69.70): BJO



#11

p-Chlorophenylmethylsulfide

Concen: 2.25 ug/mL

RT: 6.50 min Scan# 293

Delta R.T. 0.01 min

Lab File: BJ001038.D

Acq: 20 Jul 2012 12:42

Tgt Ion:158 Resp: 390468

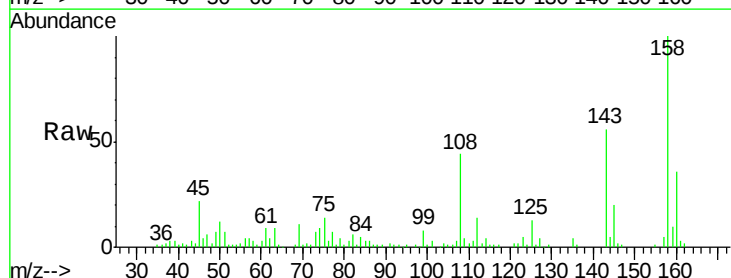
Ion Ratio Lower Upper

158 100

143 55.6 36.2 76.2

108 44.5 25.5 65.5

45 22.3 0.7 40.7

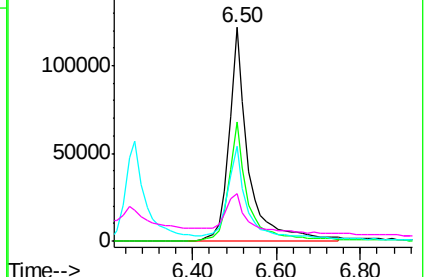
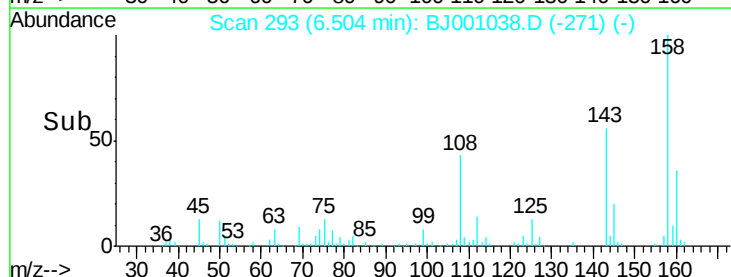


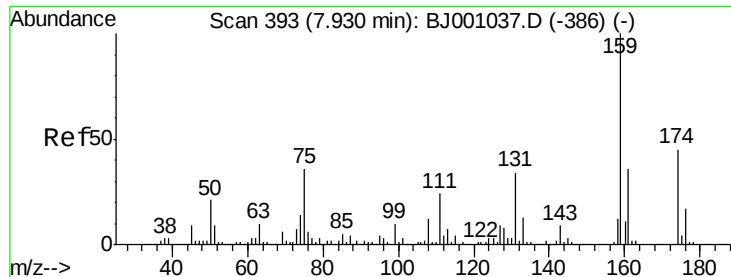
Abundance Ion 158.00 (157.70 to 158.70): E

Ion 143.00 (142.70 to 143.70): E

Ion 108.00 (107.70 to 108.70): E

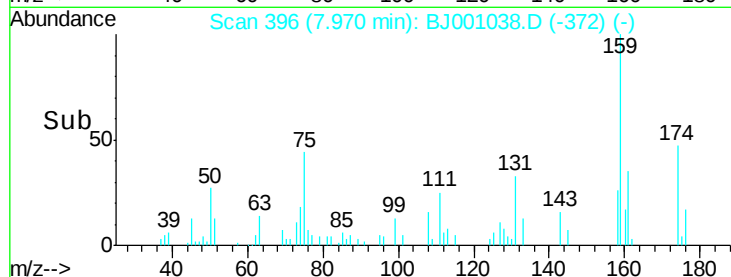
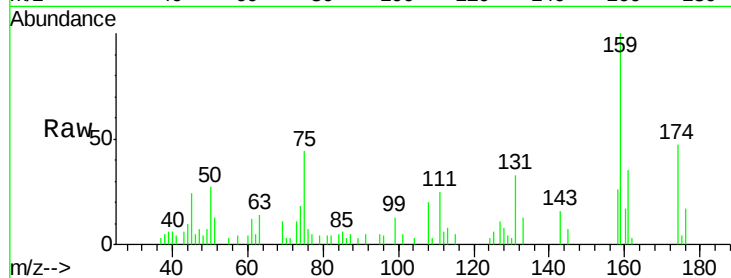
Ion 45.00 (44.70 to 45.70): BJO



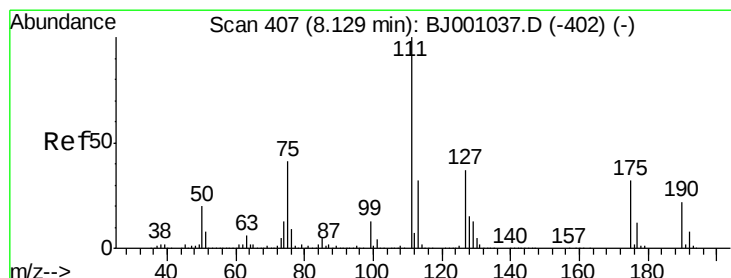
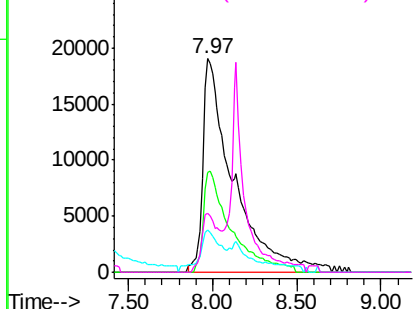


#13
p-Chlorophenylmethylsulfoxide
Concen: 2.60 ug/mL m
RT: 7.97 min Scan# 396
Delta R.T. 0.04 min
Lab File: BJ001038.D
Acq: 20 Jul 2012 12:42

Tgt Ion:	159	Resp:	239804
Ion	Ratio	Lower	Upper
159	100		
174	35.1	27.6	67.6
108	13.6	0.0	31.8
50	15.1	2.7	42.7

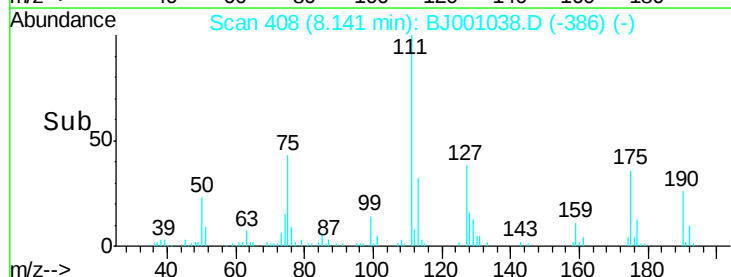
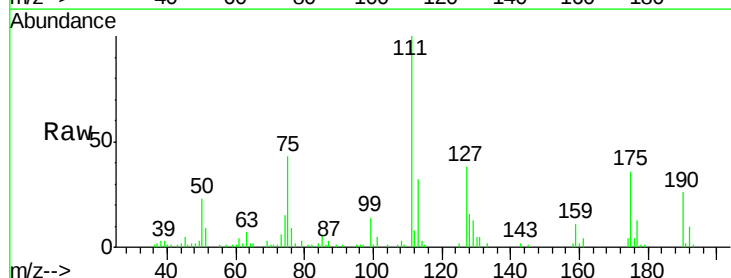


Abundance Ion 159.00 (158.70 to 159.70): E
Ion 174.00 (173.70 to 174.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 50.00 (49.70 to 50.70): BJ0

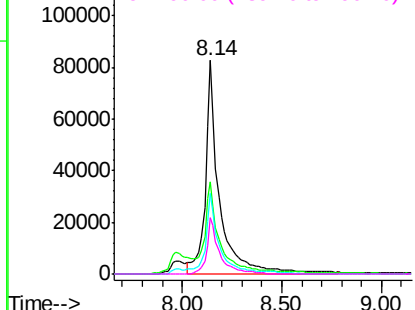


#14
p-Chlorophenylmethylsulfone
Concen: 2.84 ug/mL m
RT: 8.14 min Scan# 408
Delta R.T. 0.01 min
Lab File: BJ001038.D
Acq: 20 Jul 2012 12:42

Tgt Ion:	111	Resp:	415758
Ion	Ratio	Lower	Upper
111	100		
75	43.5	22.6	62.6
127	37.6	17.2	57.2
190	26.5	2.0	42.0



Abundance Ion 111.00 (110.70 to 111.70): E
Ion 75.00 (74.70 to 75.70): BJ0
Ion 127.00 (126.70 to 127.70): E
Ion 190.00 (189.70 to 190.70): E



Data Path : Z:\HPCHEM1\BNA_J\DATA\BJ072012\
 Data File : BJ001038.D
 Acq On : 20 Jul 2012 12:42
 Operator : HLM
 Sample : CWA-3
 Misc : BNA_J HLM
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 21 05:00:24 2012
 Quant Method : H:\VOL1\GCMSDATA\J\METHODS\BJ072012.M
 Quant Title : CWA degradation products by GCMS
 QLast Update : Fri Jul 20 13:59:18 2012
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.67	152	236496	2.00	ug/mL	0.00
6) Naphthalene-d8	5.96	136	1006349	2.00	ug/mL	0.01

System Monitoring Compounds						
10) Tripropylphosphate	7.02	99	191519m	0.49	ug/mL	0.01
Spiked Amount 0.500	Range	70 - 130	Recovery	=	98.00%	
12) 2-Bromothioanisole	7.26	204	199583	2.90	ug/mL	0.01
Spiked Amount 5.000	Range	70 - 130	Recovery	=	58.00%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dimethyl Disulfide	2.59	94	100526	1.25	ug/mL#	82
3) DMMP	3.56	79	50695m	0.60	ug/mL	
4) DIMP	4.95	97	100419m	0.50	ug/mL	
5) 1,4-Oxathiane	3.64	46	137754	1.74	ug/mL#	66
7) 1,4-Dithiane	5.11	46	122764	1.71	ug/mL	93
8) Thiodiglycol	5.99	61	779144m	14.36	ug/mL	
9) Benzothiazole	6.26	135	646710	2.34	ug/mL	97
11) p-Chlorophenylmethyldisulfid	6.50	158	390468	2.25	ug/mL	98
13) p-Chlorophenylmethyldisulfox	7.97	159	239804m	2.60	ug/mL	
14) p-Chlorophenylmethyldisulfon	8.14	111	415758m	2.84	ug/mL	

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