

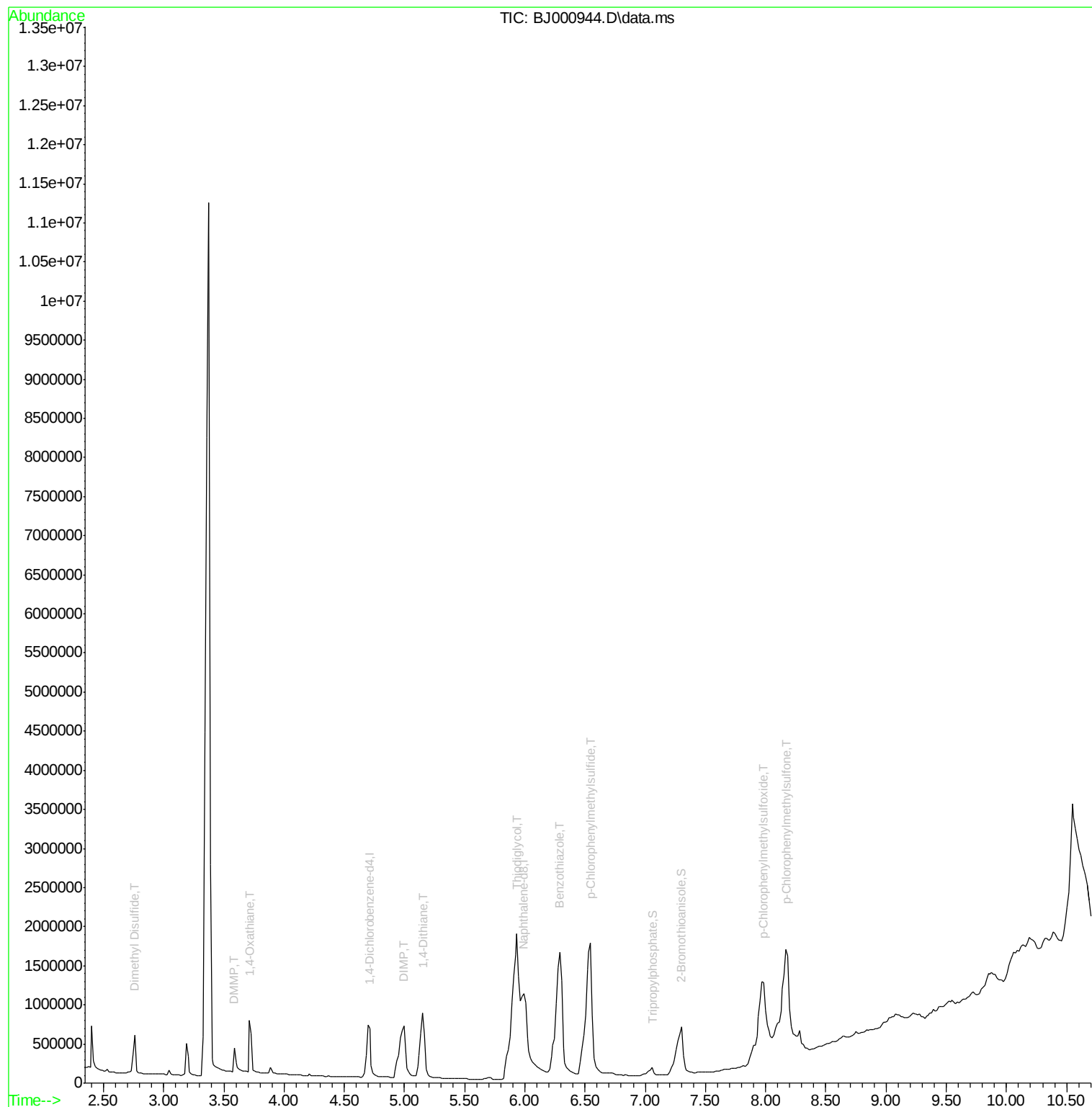
Data Path : Z:\HPCHEM1\BNA\_J\data\BJ060812\  
Data File : BJ000944.D  
Acq On : 8 Jun 2012 18:37  
Operator : HLM  
Sample : PB63665BSD  
Misc : WATER BNA\_J HLM  
ALS Vial : 10 Sample Multiplier: 1

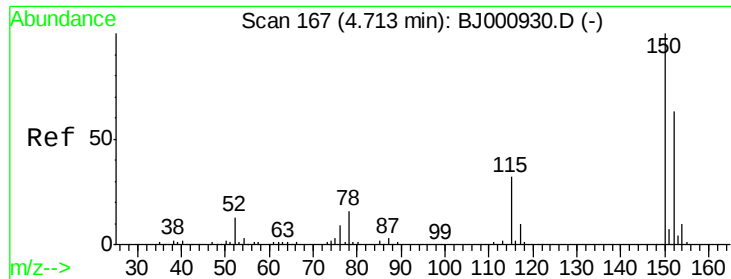
Instrument :  
BNA\_J  
ClientSampleId :  
PB63665BSD

Manual Integrations  
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6/14/2012 12:45:20 AM

Quant Time: Jun 13 07:47:15 2012  
Quant Method : H:\VOL1\GCMSDATA\J\METHODS\BJ060812.M  
Quant Title : CWA degradation products by GCMS  
QLast Update : Fri Jun 08 15:52:40 2012  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 2.00 ug/mL

RT: 4.710 min Scan# 16

Delta R.T. -0.003 min

Lab File: BJ000944.D

Acq: 8 Jun 2012 18:37

Instrument :

BNA\_J

ClientSampleId :

PB63665BSD

Tgt Ion:152 Resp: 293511

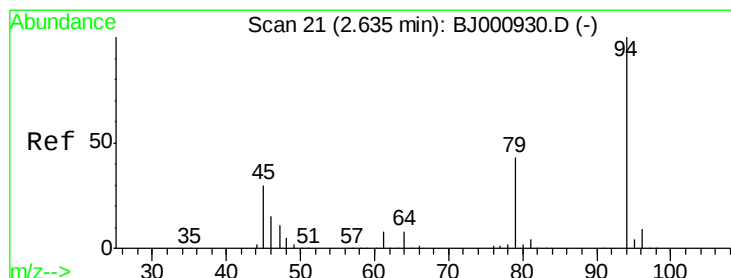
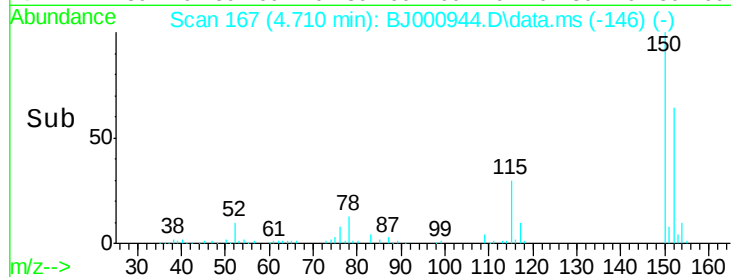
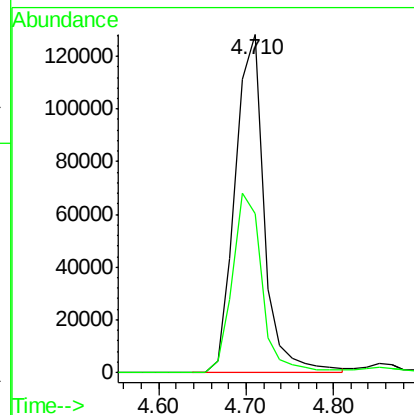
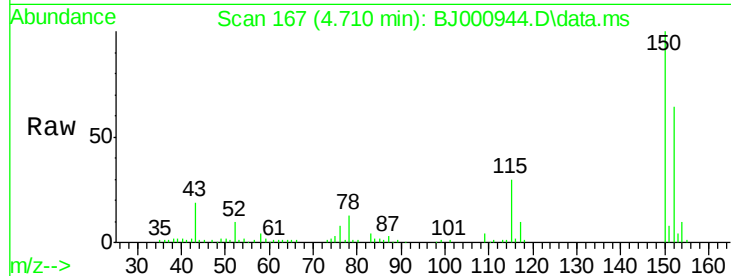
Ion Ratio Lower Upper

152 100

115 47.0 30.6 70.6

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#2

Dimethyl Disulfide

Concen: 2.60 ug/mL

RT: 2.760 min Scan# 30

Delta R.T. 0.125 min

Lab File: BJ000944.D

Acq: 8 Jun 2012 18:37

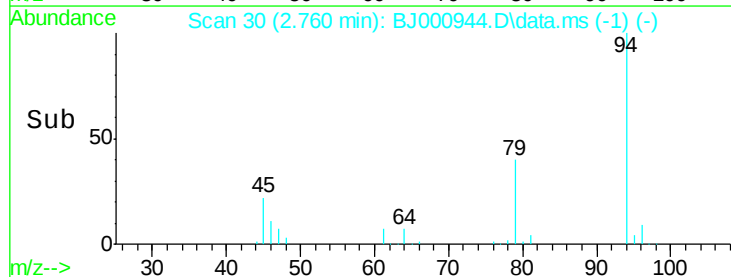
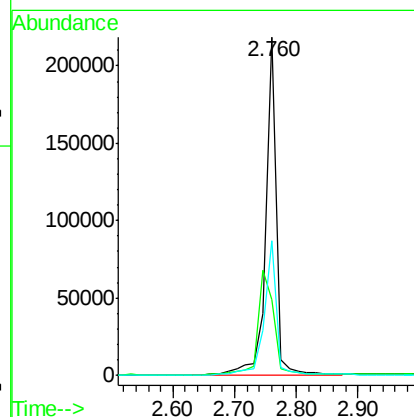
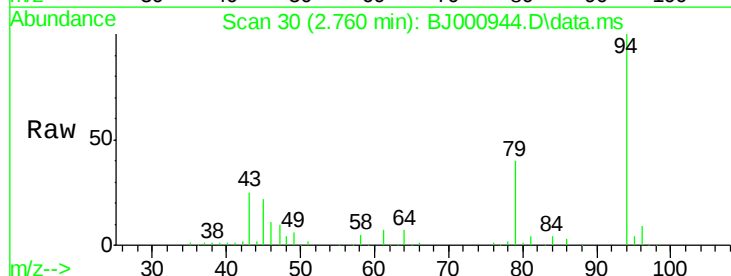
Tgt Ion: 94 Resp: 259522

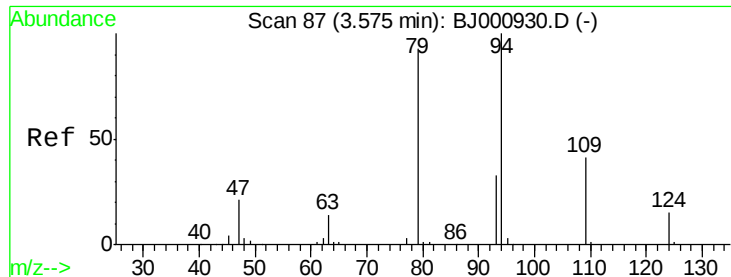
Ion Ratio Lower Upper

94 100

45 22.5 11.1 51.1

79 39.7 22.9 62.9





#3

DMMP

Concen: 1.61 ug/mL

RT: 3.586 min Scan# 88

Delta R.T. 0.012 min

Lab File: BJ000944.D

Acq: 8 Jun 2012 18:37

Instrument :

BNA\_J

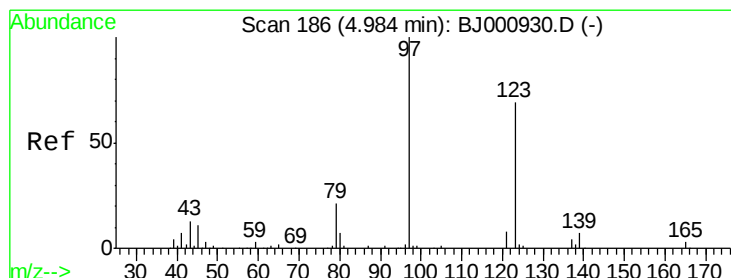
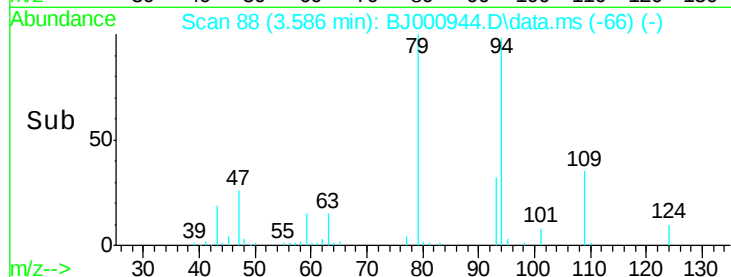
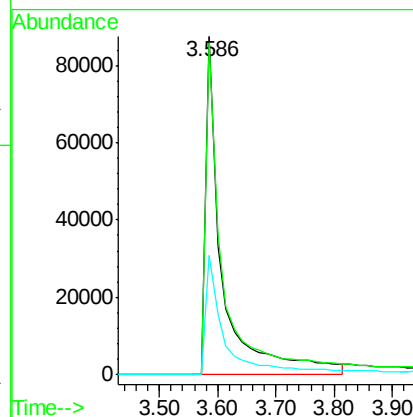
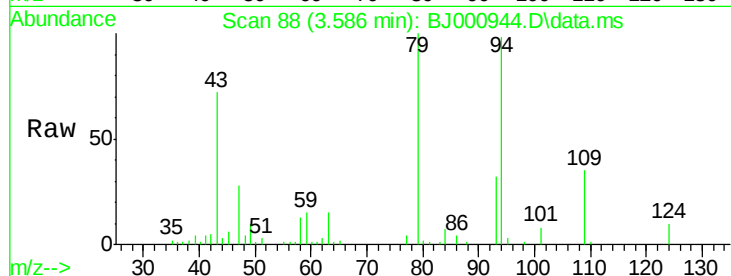
ClientSampleId :

PB63665BSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 79    | Resp: | 175488 |
| Ion Ratio | Lower | Upper |        |
| 79        | 100   |       |        |
| 94        | 98.2  | 87.0  | 127.0  |
| 109       | 35.2  | 24.1  | 64.1   |

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#4

DIMP

Concen: 3.53 ug/mL

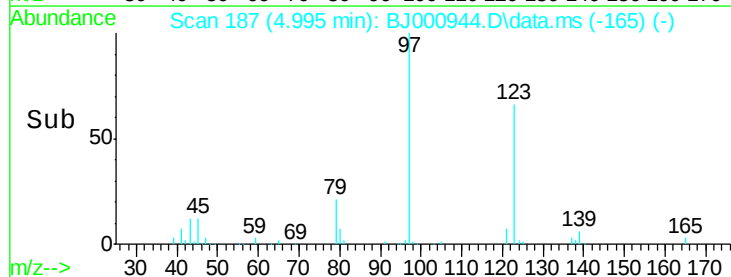
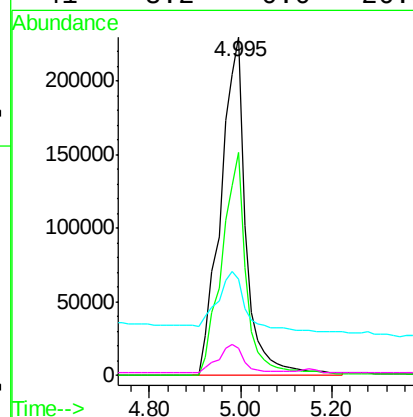
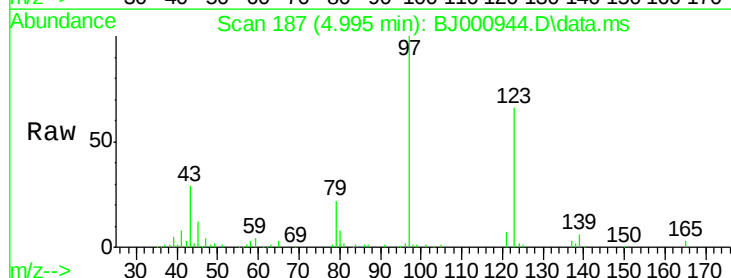
RT: 4.995 min Scan# 187

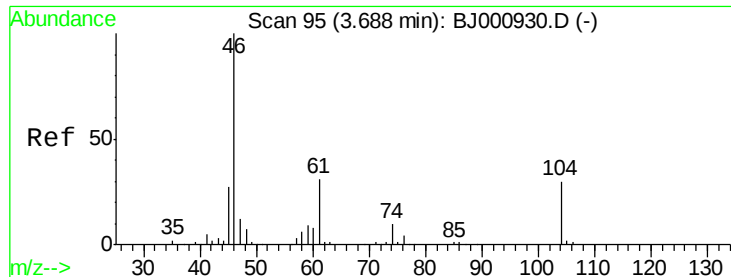
Delta R.T. 0.012 min

Lab File: BJ000944.D

Acq: 8 Jun 2012 18:37

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 97    | Resp: | 885177 |
| Ion Ratio | Lower | Upper |        |
| 97        | 100   |       |        |
| 123       | 66.1  | 49.1  | 89.1   |
| 43        | 28.5  | 0.0   | 33.2   |
| 41        | 8.2   | 0.0   | 26.5   |





#5

1,4-Oxathiane

Concen: 3.25 ug/mL

RT: 3.714 min Scan# 97

Delta R.T. 0.025 min

Lab File: BJ000944.D

Acq: 8 Jun 2012 18:37

Instrument :

BNA\_J

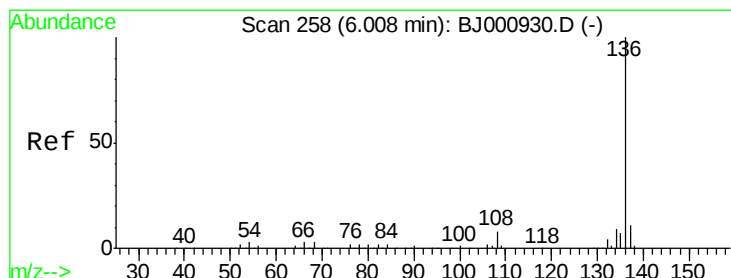
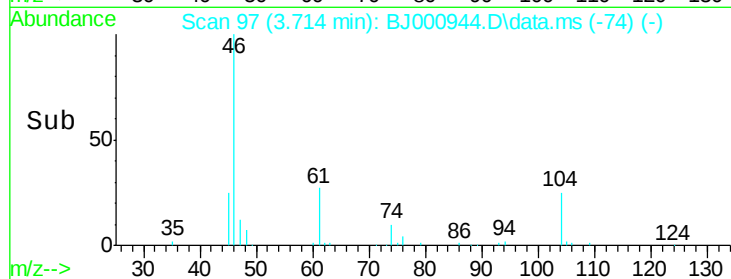
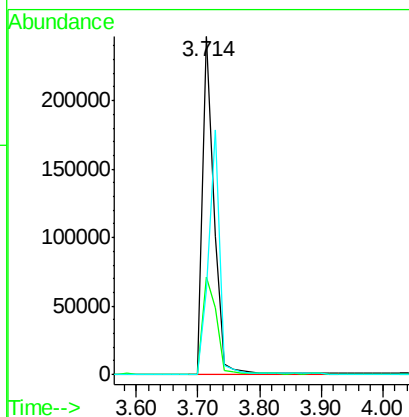
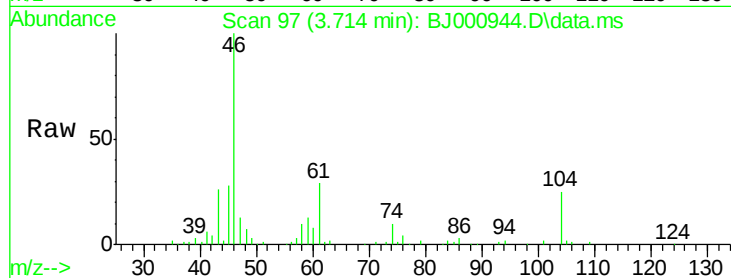
ClientSampleId :

PB63665BSD

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 46   | Resp: | 318190 |
| Ion Ratio |      | Lower | Upper  |
| 46        | 100  |       |        |
| 61        | 29.0 | 11.2  | 51.2   |
| 104       | 25.2 | 10.0  | 50.0   |

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#6

Naphthalene-d8

Concen: 2.00 ug/mL

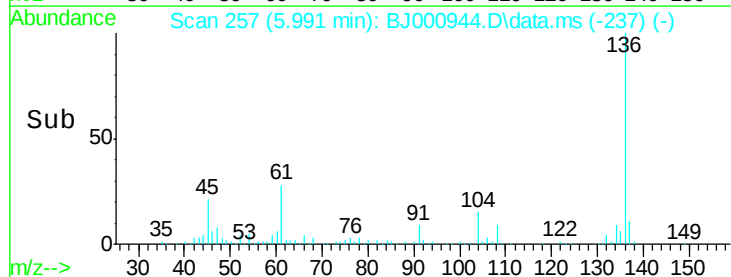
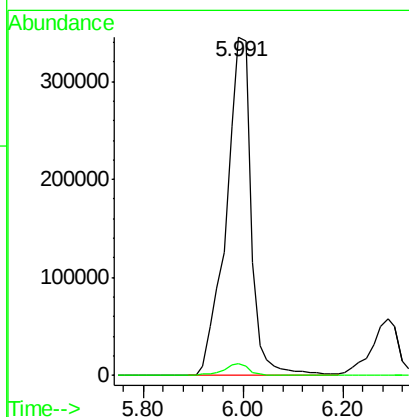
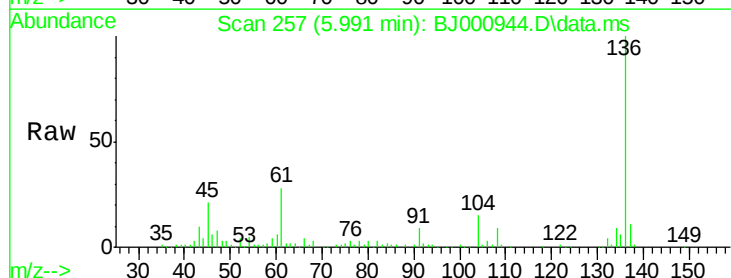
RT: 5.991 min Scan# 257

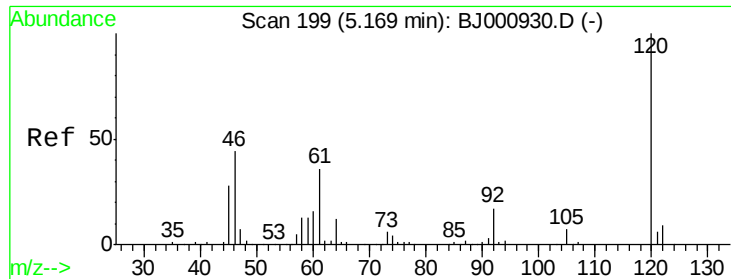
Delta R.T. -0.017 min

Lab File: BJ000944.D

Acq: 8 Jun 2012 18:37

|           |     |       |         |
|-----------|-----|-------|---------|
| Tgt Ion:  | 136 | Resp: | 1207977 |
| Ion Ratio |     | Lower | Upper   |
| 136       | 100 |       |         |
| 68        | 3.5 | 0.0   | 22.7    |





#7

1,4-Dithiane

Concen: 3.49 ug/mL

RT: 5.151 min Scan# 19

Delta R.T. -0.017 min

Lab File: BJ000944.D

Acq: 8 Jun 2012 18:37

Instrument :

BNA\_J

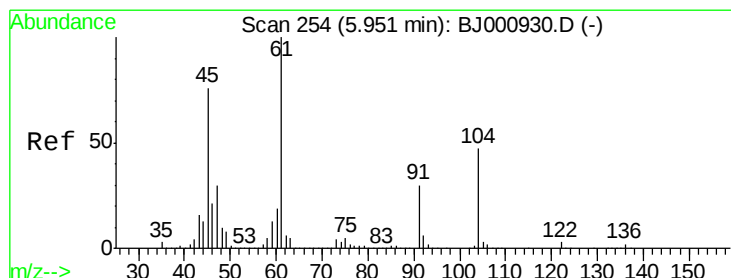
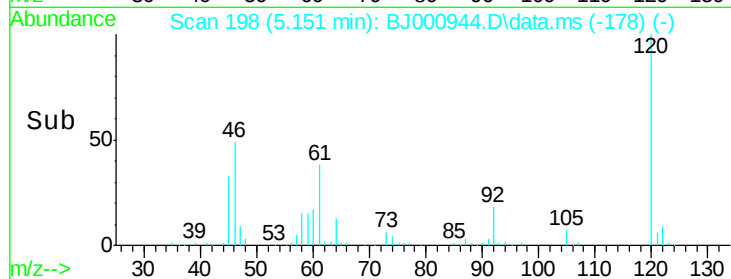
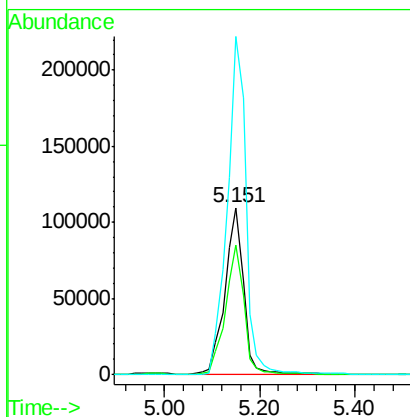
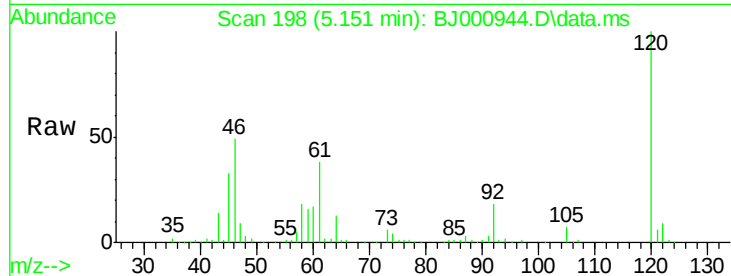
ClientSampleId :

PB63665BSD

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 46      | 100   |       |        |
| 61      | 77.6  | 61.9  | 101.9  |
| 120     | 202.2 | 208.1 | 248.1# |

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#8

Thiodiglycol

Concen: 34.97 ug/mL m

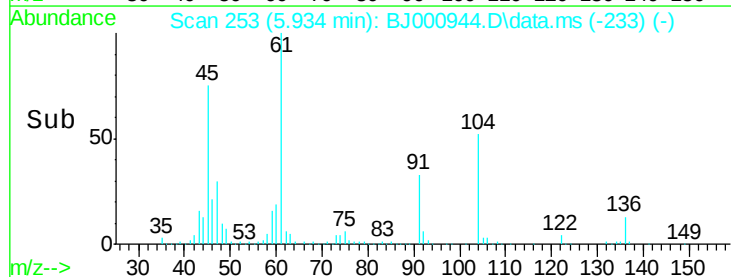
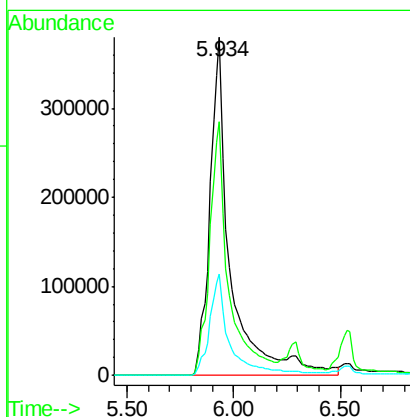
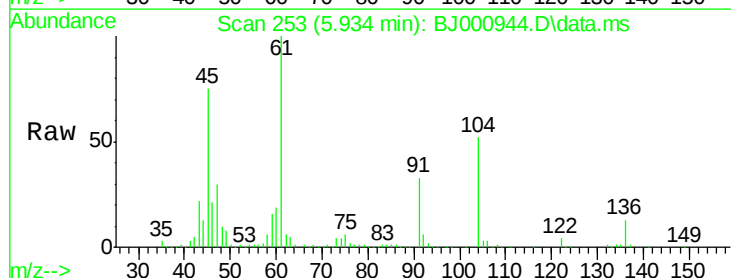
RT: 5.934 min Scan# 253

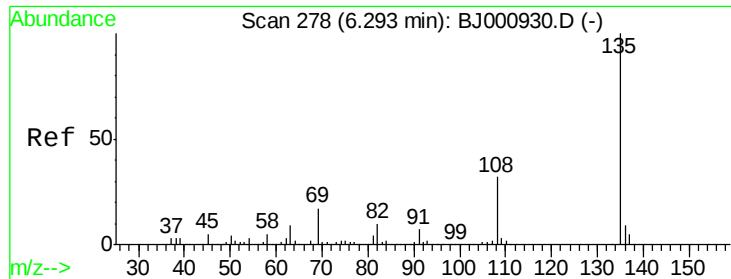
Delta R.T. -0.017 min

Lab File: BJ000944.D

Acq: 8 Jun 2012 18:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 45      | 74.9  | 56.3  | 96.3  |
| 47      | 29.9  | 10.1  | 50.1  |





#9

Benzothiazole

Concen: 7.53 ug/mL

RT: 6.290 min Scan# 27

Delta R.T. -0.003 min

Lab File: BJ000944.D

Acq: 8 Jun 2012 18:37

Instrument :

BNA\_J

ClientSampleId :

PB63665BSD

Tgt Ion:135 Resp: 2499268

Ion Ratio Lower Upper

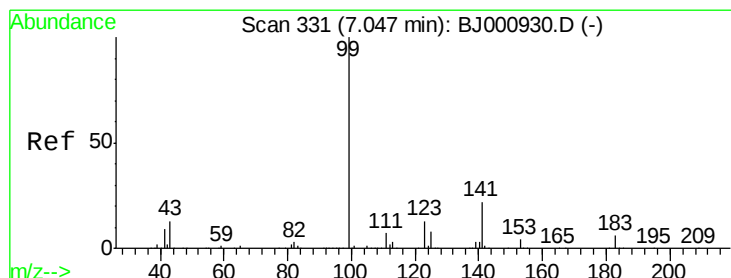
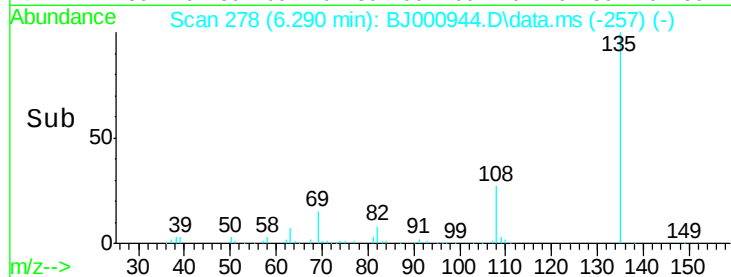
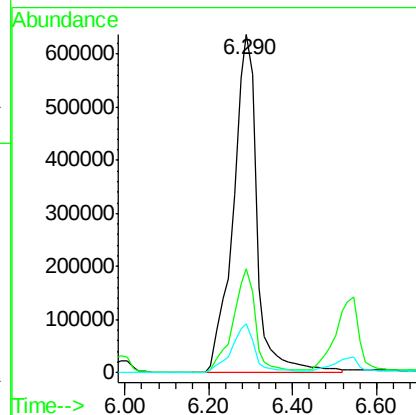
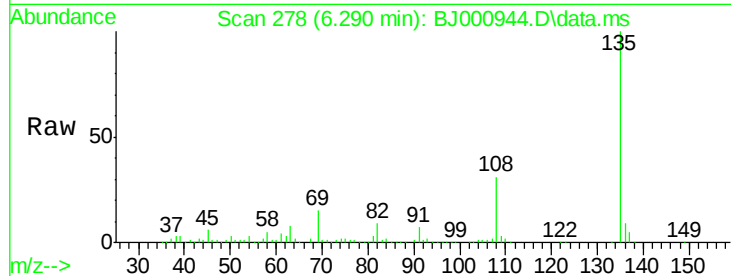
135 100

108 30.7 12.0 52.0

69 14.5 0.0 36.6

Manual Integrations  
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#10

Tripropylphosphate

Concen: 0.34 ug/mL

RT: 7.058 min Scan# 332

Delta R.T. 0.011 min

Lab File: BJ000944.D

Acq: 8 Jun 2012 18:37

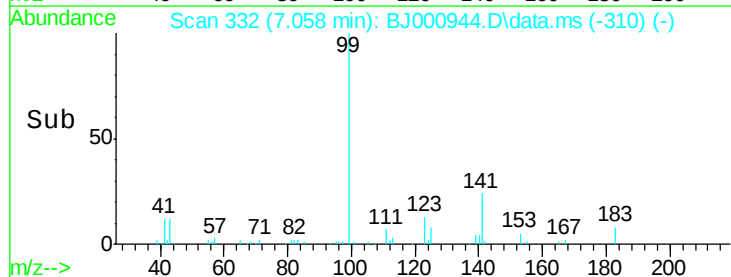
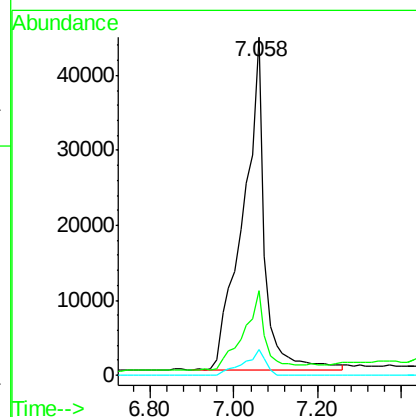
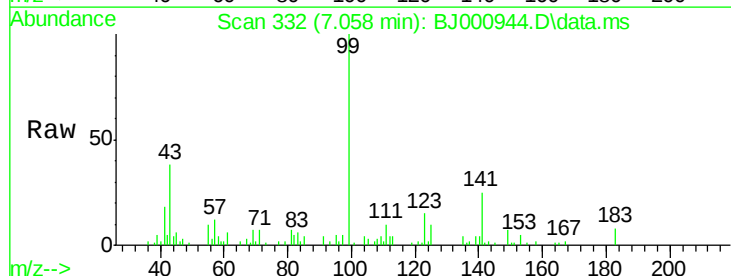
Tgt Ion: 99 Resp: 158797

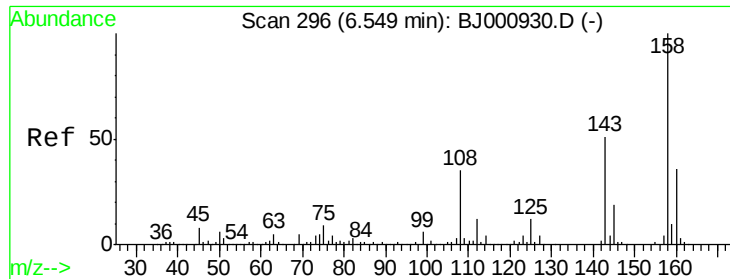
Ion Ratio Lower Upper

99 100

141 24.5 18.5 27.7

183 7.7 5.8 8.8





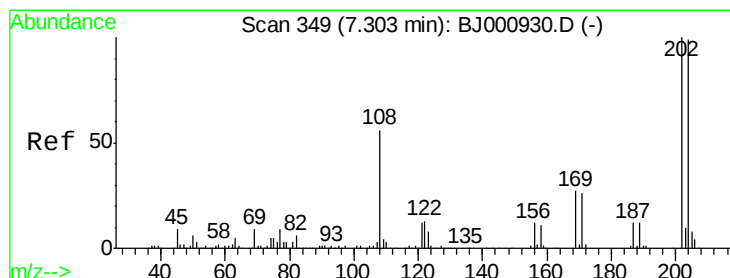
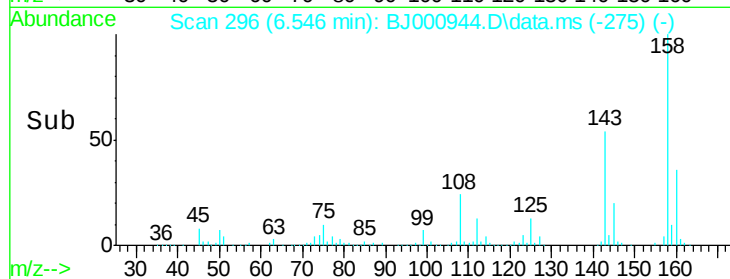
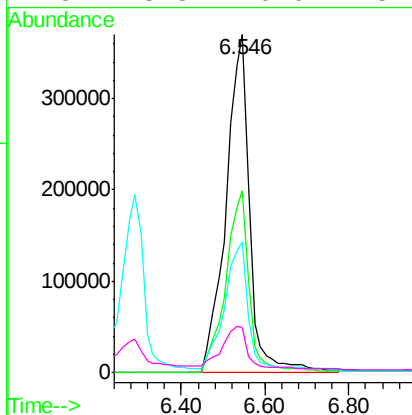
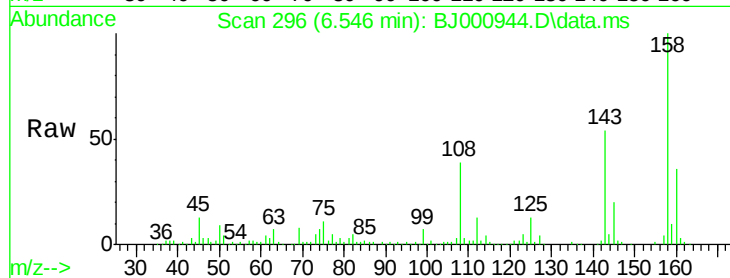
#11  
p-Chlorophenylmethylsulfide  
Concen: 6.99 ug/mL  
RT: 6.546 min Scan# 29  
Delta R.T. -0.003 min  
Lab File: BJ000944.D  
Acq: 8 Jun 2012 18:37

Instrument :  
BNA\_J  
ClientSampleId :  
PB63665BSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 158     | 100   |       |       |
| 143     | 53.8  | 31.3  | 71.3  |
| 108     | 38.6  | 14.9  | 54.9  |
| 45      | 13.3  | 0.0   | 28.5  |

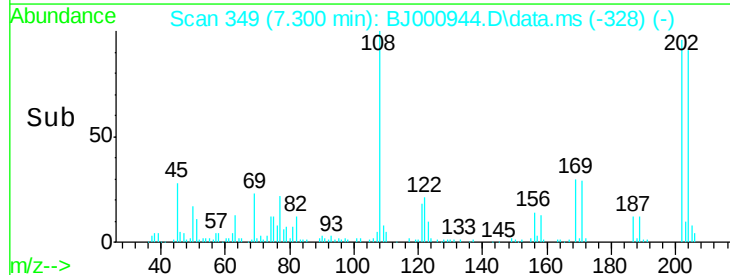
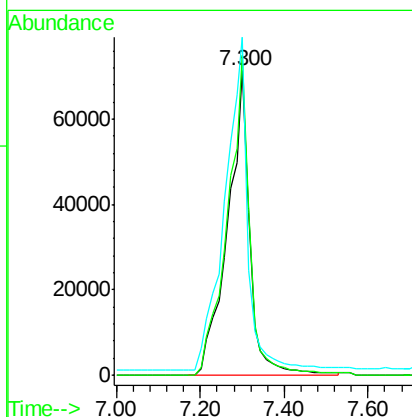
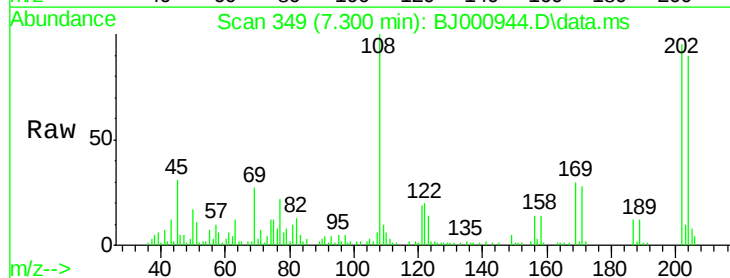
Manual Integrations  
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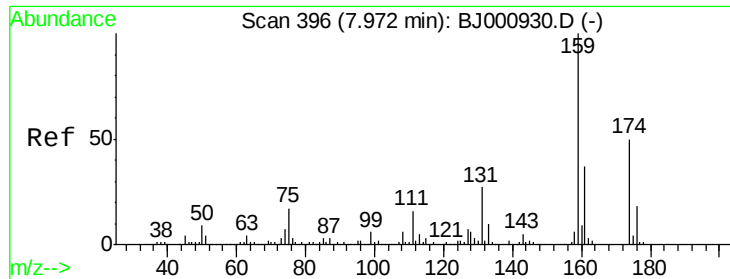
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#12  
2-Bromothioanisole  
Concen: 3.16 ug/mL  
RT: 7.300 min Scan# 349  
Delta R.T. -0.003 min  
Lab File: BJ000944.D  
Acq: 8 Jun 2012 18:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 204     | 100   |       |       |
| 202     | 105.3 | 81.4  | 121.4 |
| 108     | 111.1 | 37.1  | 77.1# |





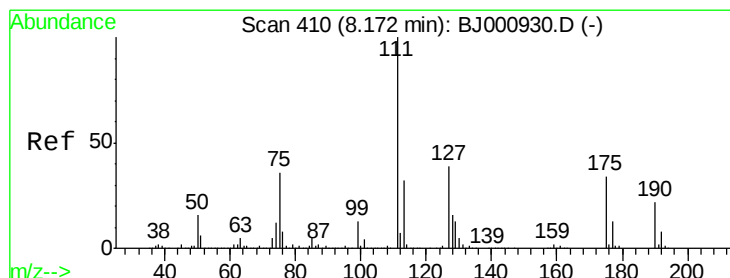
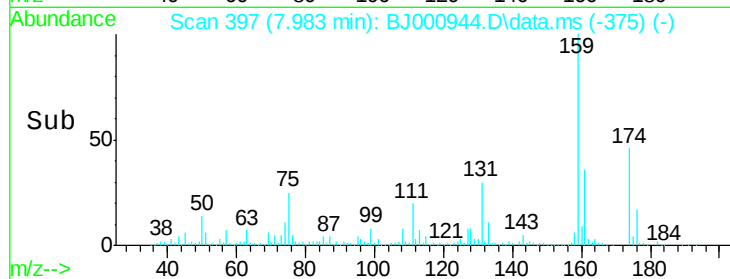
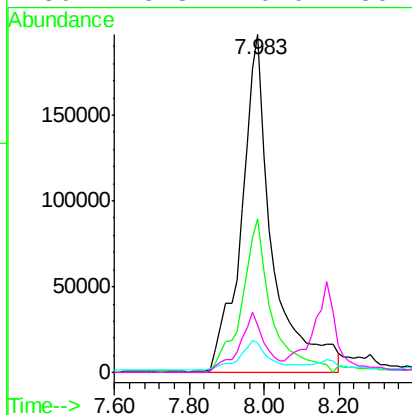
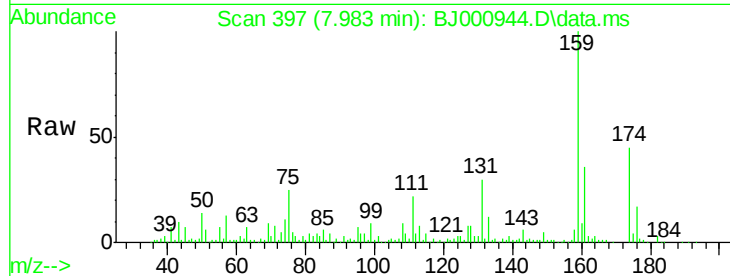
#13  
p-Chlorophenylmethylsulfoxide  
Concen: 9.17 ug/mL  
RT: 7.983 min Scan# 39  
Delta R.T. 0.011 min  
Lab File: BJ000944.D  
Acq: 8 Jun 2012 18:37

Instrument :  
BNA\_J  
ClientSampleId :  
PB63665BSD

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 159   | Resp: | 1121673 |
| Ion Ratio | Lower | Upper |         |
| 159       | 100   |       |         |
| 174       | 43.6  | 27.0  | 67.0    |
| 108       | 8.7   | 0.0   | 28.3    |
| 50        | 15.3  | 0.0   | 36.8    |

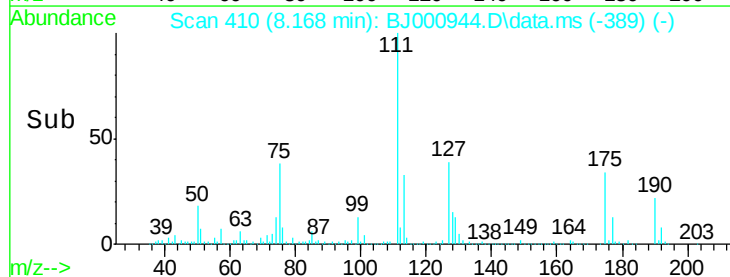
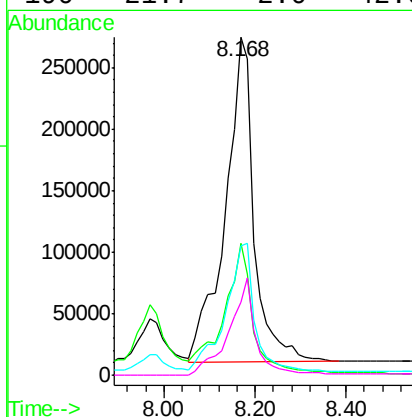
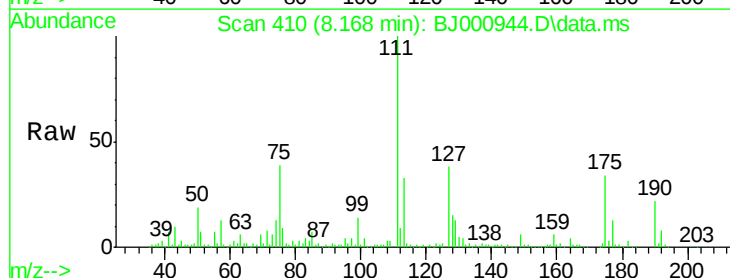
Manual Integrations  
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#14  
p-Chlorophenylmethylsulfone  
Concen: 6.63 ug/mL  
RT: 8.168 min Scan# 410  
Delta R.T. -0.003 min  
Lab File: BJ000944.D  
Acq: 8 Jun 2012 18:37

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 111   | Resp: | 1165696 |
| Ion Ratio | Lower | Upper |         |
| 111       | 100   |       |         |
| 75        | 39.0  | 16.5  | 56.5    |
| 127       | 38.2  | 19.3  | 59.3    |
| 190       | 21.7  | 2.0   | 42.0    |



Data Path : Z:\HPCHEM1\BNA\_J\data\BJ060812\  
 Data File : BJ000944.D  
 Acq On : 8 Jun 2012 18:37  
 Operator : HLM  
 Sample : PB63665BSD  
 Misc : WATER BNA\_J HLM  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_J  
 ClientSampleId :  
 PB63665BSD

Manual Integrations  
 APPROVED

AHPatel  
 6/14/2012 12:45:20 AM

Quant Time: Jun 13 07:47:15 2012  
 Quant Method : H:\VOL1\GCMSDATA\J\METHODS\BJ060812.M  
 Quant Title : CWA degradation products by GCMS  
 QLast Update : Fri Jun 08 15:52:40 2012  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response | Conc  | Units   | Dev(Min) |
|-------------------------------|----------------|------|----------|-------|---------|----------|
| -----                         |                |      |          |       |         |          |
| Internal Standards            |                |      |          |       |         |          |
| 1) 1,4-Dichlorobenzene-d4     | 4.710          | 152  | 293511   | 2.00  | ug/mL   | 0.00     |
| 6) Naphthalene-d8             | 5.991          | 136  | 1207977  | 2.00  | ug/mL   | -0.02    |
| System Monitoring Compounds   |                |      |          |       |         |          |
| 10) Tripropylphosphate        | 7.058          | 99   | 158797   | 0.34  | ug/mL   | 0.01     |
| Spiked Amount 0.500           | Range 70 - 130 |      | Recovery | =     | 68.00%# |          |
| 12) 2-Bromothioanisole        | 7.300          | 204  | 260967   | 3.16  | ug/mL   | 0.00     |
| Spiked Amount 5.000           | Range 70 - 130 |      | Recovery | =     | 63.20%# |          |
| Target Compounds              |                |      |          |       |         |          |
|                               |                |      |          |       |         | Qvalue   |
| 2) Dimethyl Disulfide         | 2.760          | 94   | 259522   | 2.60  | ug/mL   | 91       |
| 3) DMMP                       | 3.586          | 79   | 175488   | 1.61  | ug/mL   | 90       |
| 4) DIMP                       | 4.995          | 97   | 885177   | 3.53  | ug/mL   | 91       |
| 5) 1,4-Oxathiane              | 3.714          | 46   | 318190   | 3.25  | ug/mL   | 94       |
| 7) 1,4-Dithiane               | 5.151          | 46   | 300182   | 3.49  | ug/mL#  | 87       |
| 8) Thiodiglycol               | 5.934          | 61   | 2529356m | 34.97 | ug/mL   |          |
| 9) Benzothiazole              | 6.290          | 135  | 2499268  | 7.53  | ug/mL   | 97       |
| 11) p-Chlorophenylmethyisu... | 6.546          | 158  | 1456207  | 6.99  | ug/mL   | 95       |
| 13) p-Chlorophenylmethyisu... | 7.983          | 159  | 1121673  | 9.17  | ug/mL   | 96       |
| 14) p-Chlorophenylmethyisu... | 8.168          | 111  | 1165696  | 6.63  | ug/mL   | 98       |
| -----                         |                |      |          |       |         |          |

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