

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM053015\  
 Data File : BM001486.D  
 Acq On : 30 May 2015 21:51  
 Operator : TP/IZ  
 Sample : G2411-08RE  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BCRB9RE

Manual Integrations  
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apatel  
 6/1/2015 4:31:29 PM

Quant Time: May 31 04:24:27 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sun May 31 02:16:14 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.38  | 152  | 206146   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.16 | 136  | 893727   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.06 | 164  | 512681   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.82 | 188  | 1062910  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.03 | 240  | 1005108  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.12 | 264  | 919809   | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 2.80  | 96  | 14040   | 3.40  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.58  | 99  | 316888  | 20.73 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.72  | 67  | 195847  | 20.59 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 6.92  | 132 | 271212  | 21.79 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.12  | 113 | 238358  | 18.52 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.54  | 128 | 130086  | 22.35 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.26  | 143 | 146032  | 22.02 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.80  | 165 | 271632  | 20.46 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.31 | 131 | 135997  | 8.71  | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.49 | 166 | 735050  | 20.45 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.75 | 160 | 1011650 | 20.66 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.31 | 143 | 123971  | 16.91 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.06 | 176 | 694083  | 19.35 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.21 | 200 | 47915   | 7.32  | ng/ul | 0.00 |
| 70) Anthracene-d10             | 16.92 | 188 | 962544  | 19.65 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.22 | 212 | 1016234 | 23.25 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 22.99 | 264 | 813086  | 19.99 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |      |       | Qvalue |
|--------------------------------|-------|-----|--------|------|-------|--------|
| 14) Acetophenone               | 8.20  | 105 | 32037  | 1.52 | ng/ul | 99     |
| 44) Dimethylphthalate          | 13.53 | 163 | 337747 | 8.32 | ng/ul | 100    |
| 69) Phenanthrene               | 16.86 | 178 | 111408 | 1.88 | ng/ul | 98     |
| 74) Fluoranthene               | 18.89 | 202 | 340856 | 4.75 | ng/ul | 99     |
| 77) Pyrene                     | 19.25 | 202 | 320626 | 5.34 | ng/ul | 98     |
| 80) Benzo(a)anthracene         | 21.01 | 228 | 167169 | 2.85 | ng/ul | 94     |
| 81) Bis(2-ethylhexyl)phthalate | 20.96 | 149 | 84744  | 2.26 | ng/ul | 97     |
| 82) Chrysene                   | 21.06 | 228 | 187857 | 3.40 | ng/ul | 99     |
| 85) Benzo(b)fluoranthene       | 22.50 | 252 | 278024 | 4.94 | ng/ul | 97     |
| 86) Benzo(k)fluoranthene       | 22.54 | 252 | 63472m | 1.18 | ng/ul |        |
| 88) Benzo(a)pyrene             | 23.03 | 252 | 171645 | 3.25 | ng/ul | 98     |
| 89) Indeno(1,2,3-cd)pyrene     | 25.17 | 276 | 120190 | 2.16 | ng/ul | 94     |
| 91) Benzo(g,h,i)perylene       | 25.80 | 276 | 118185 | 2.57 | ng/ul | 96     |

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

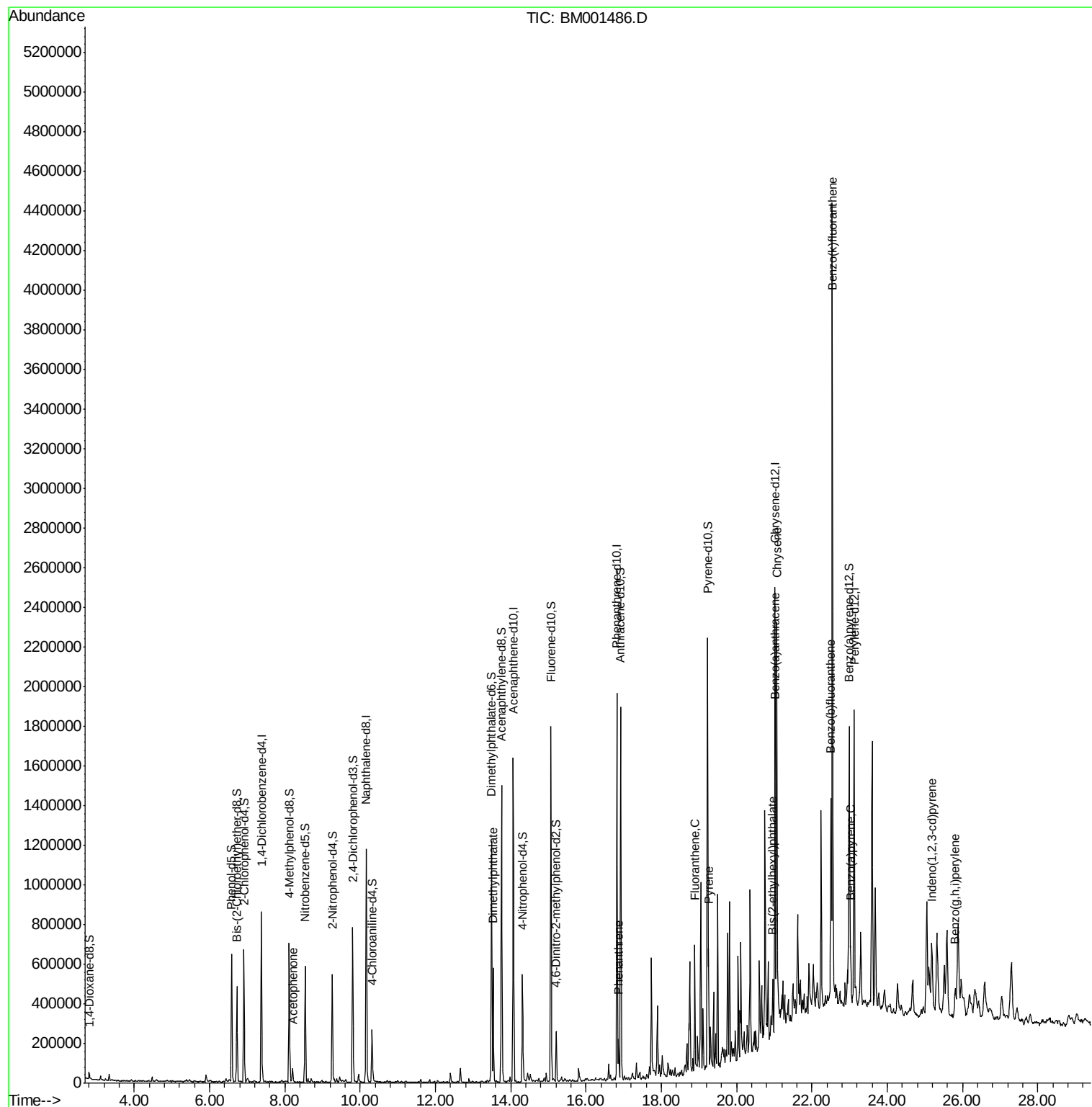
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM053015\  
Data File : BM001486.D  
Acq On : 30 May 2015 21:51  
Operator : TP/IZ  
Sample : G2411-08RE  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

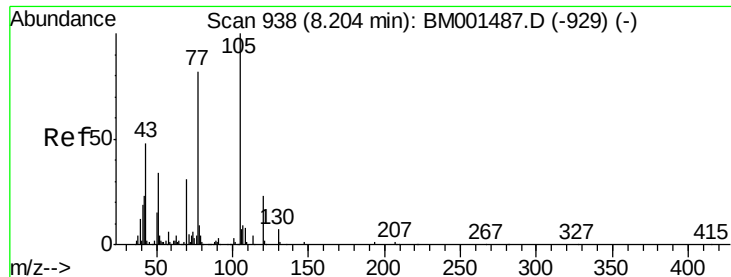
Instrument :  
BNA\_M  
ClientSampleId :  
BCRB9RE

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Quant Time: May 31 04:24:27 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052915.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sun May 31 02:16:14 2015  
Response via : Initial Calibration





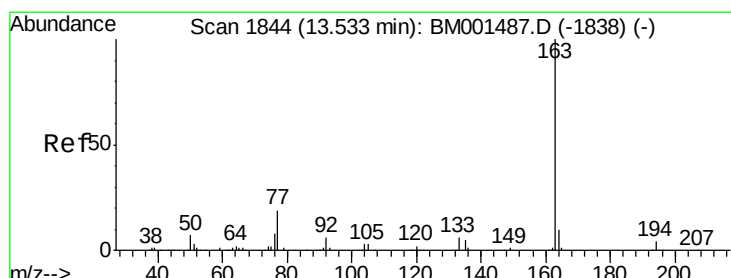
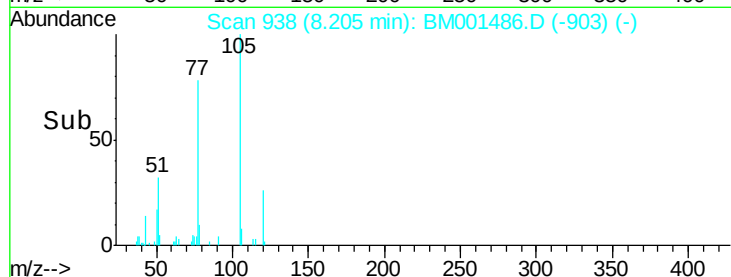
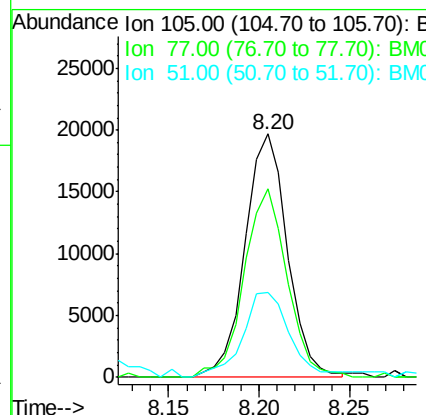
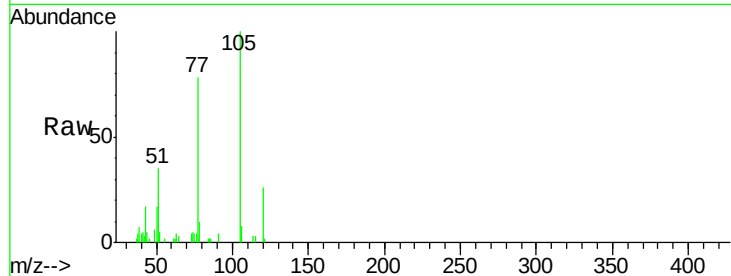
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Acetophenone  
Concen: 1.52 ng/ul  
RT: 8.20 min Scan# 938  
Delta R.T. 0.01 min  
Lab File: BM001486.D  
Acq: 30 May 2015 21:51

Instrument :  
BNA\_M  
ClientSampleId :  
BCRB9RE

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 32037 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 77        | 77.7  | 61.6  | 92.4  |
| 51        | 34.6  | 27.5  | 41.3  |

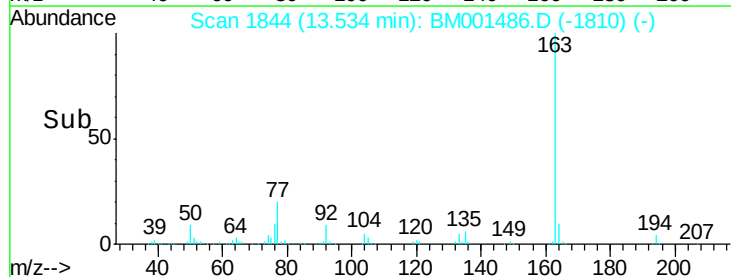
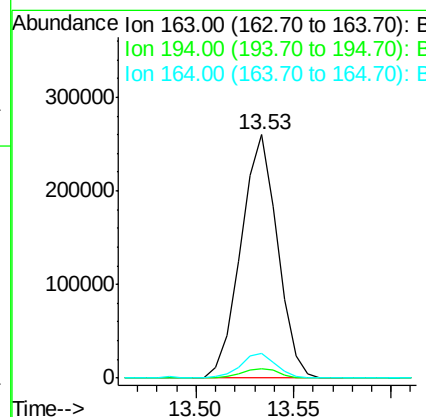
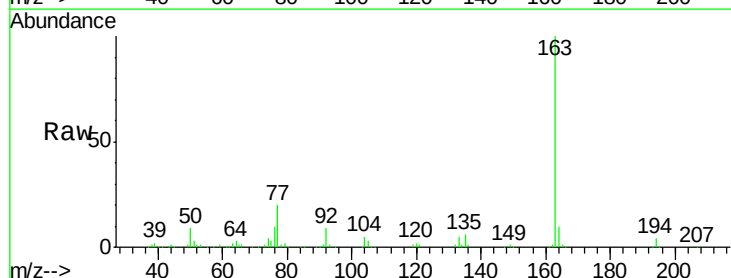
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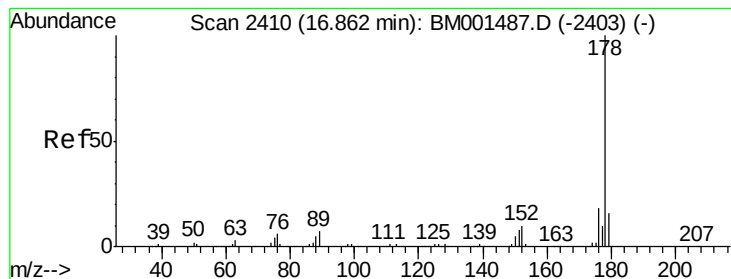
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#44  
Dimethylphthalate  
Concen: 8.32 ng/ul  
RT: 13.53 min Scan# 1844  
Delta R.T. 0.00 min  
Lab File: BM001486.D  
Acq: 30 May 2015 21:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 337747 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 3.9   | 3.0   | 4.6    |
| 164       | 10.2  | 8.2   | 12.4   |





#69

Phenanthrene

Concen: 1.88 ng/ul

RT: 16.86 min Scan# 2409

Delta R.T. 0.00 min

Lab File: BM001486.D

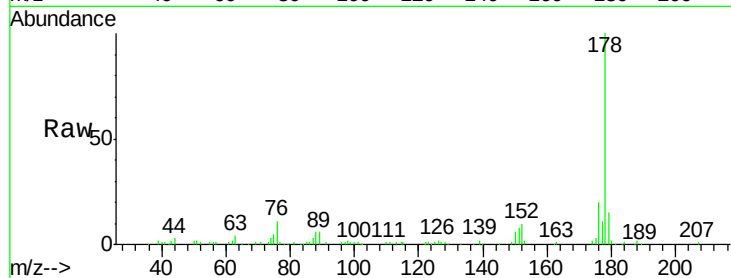
Acq: 30 May 2015 21:51

Instrument :

BNA\_M

ClientSampleId :

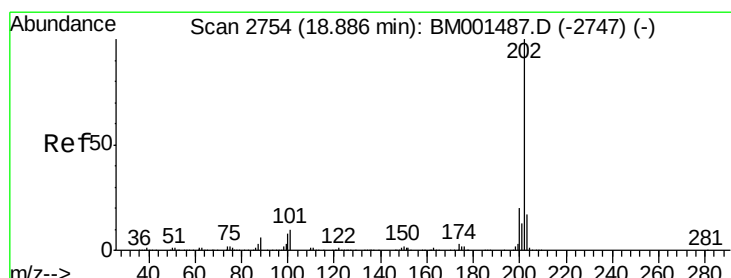
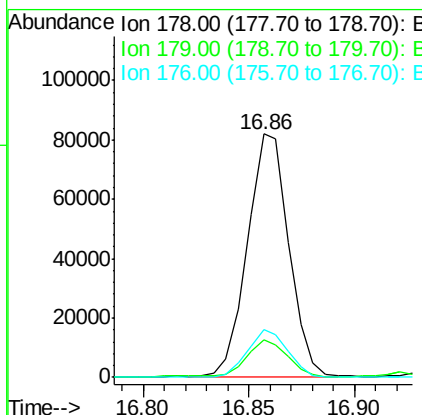
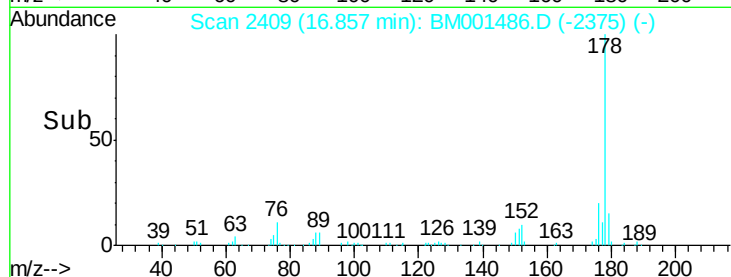
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| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 111408 |       |       |
| 179     | 15.2  | 11.9   | 17.9  |       |
| 176     | 19.8  | 15.0   | 22.4  |       |

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#74

Fluoranthene

Concen: 4.75 ng/ul

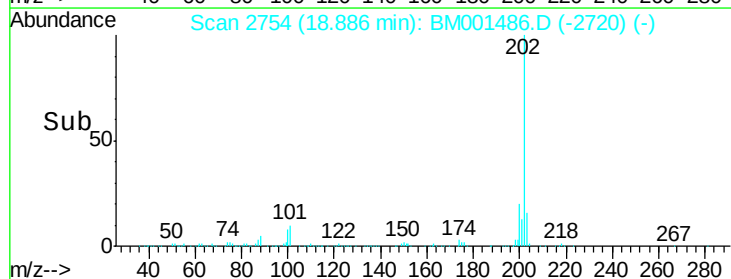
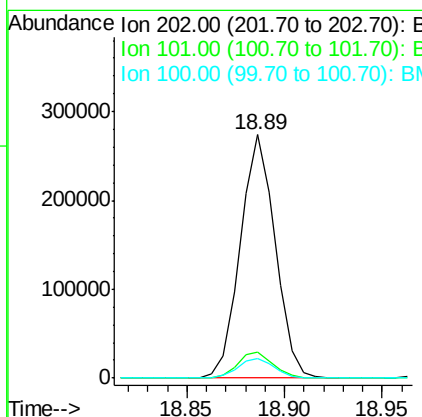
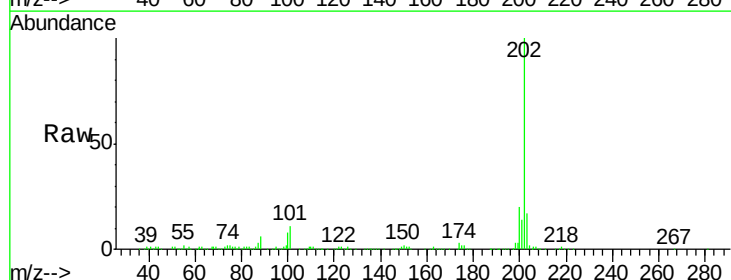
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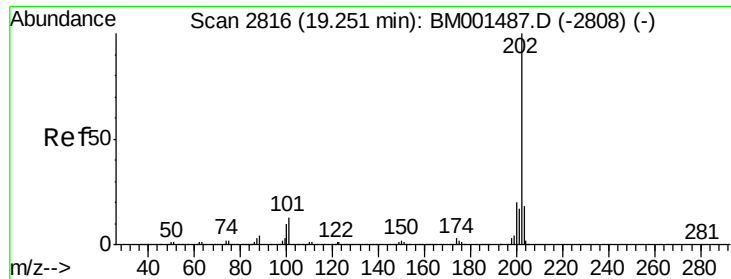
Delta R.T. 0.00 min

Lab File: BM001486.D

Acq: 30 May 2015 21:51

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 340856 |       |       |
| 101     | 10.5  | 8.6    | 12.8  |       |
| 100     | 7.8   | 6.5    | 9.7   |       |





#77

Pyrene

Concen: 5.34 ng/ul

RT: 19.25 min Scan# 2816

Delta R.T. 0.00 min

Lab File: BM001486.D

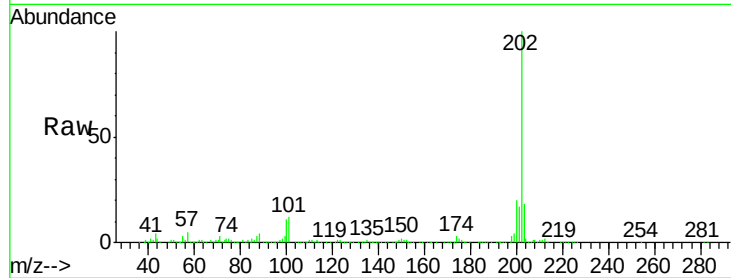
Acq: 30 May 2015 21:51

Instrument :

BNA\_M

ClientSampleId :

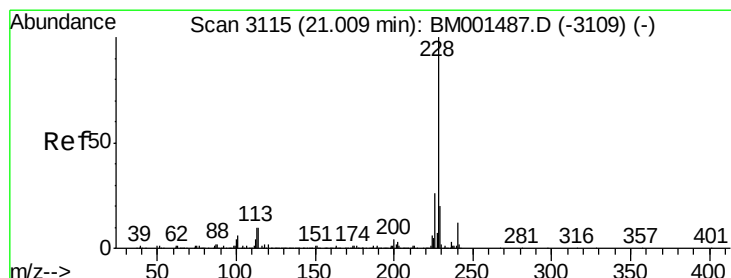
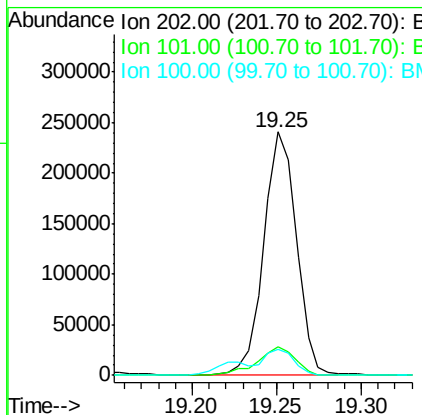
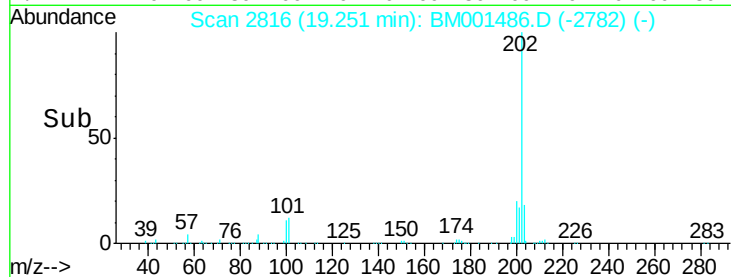
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| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 320626 |       |       |
| 101     | 11.8  | 10.3   | 15.5  |       |
| 100     | 10.8  | 8.6    | 12.8  |       |

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#80

Benzo(a)anthracene

Concen: 2.85 ng/ul

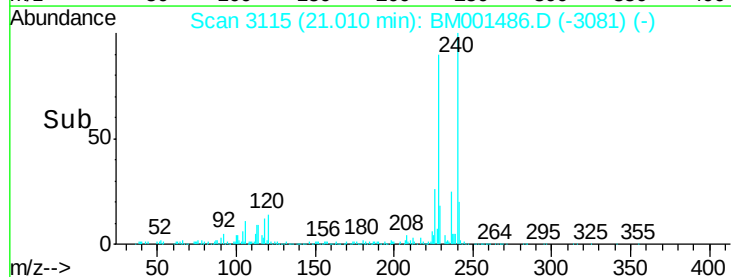
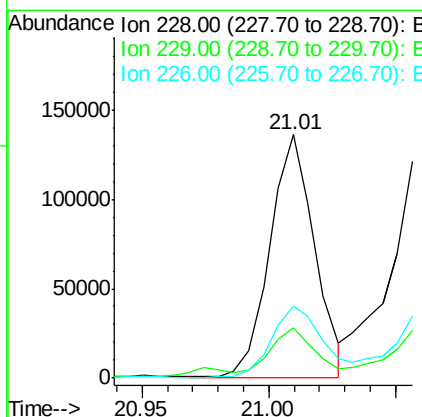
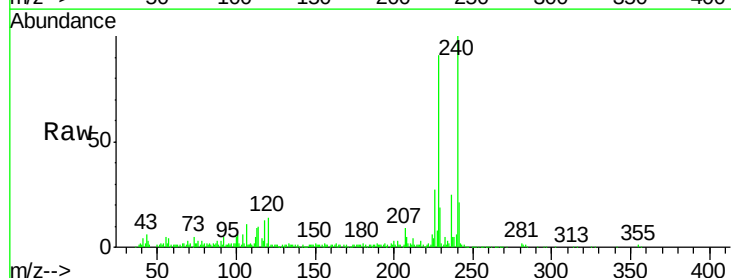
RT: 21.01 min Scan# 3115

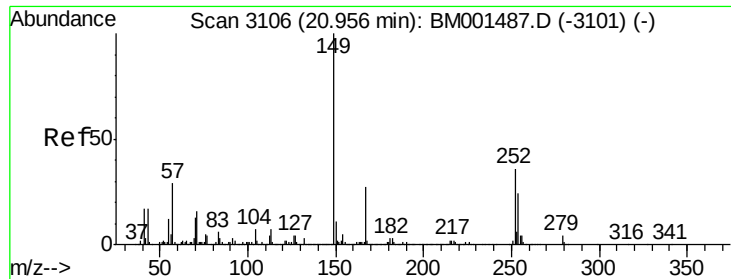
Delta R.T. 0.00 min

Lab File: BM001486.D

Acq: 30 May 2015 21:51

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 167169 |       |       |
| 229     | 20.9  | 15.8   | 23.8  |       |
| 226     | 29.7  | 20.6   | 30.8  |       |





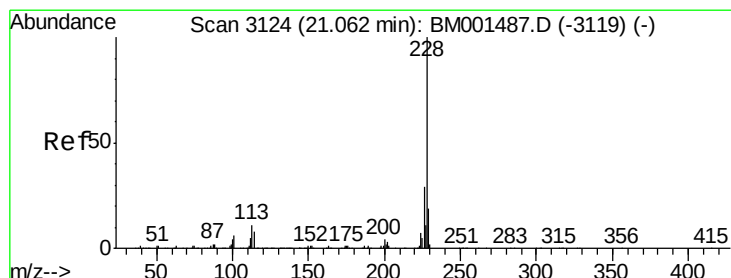
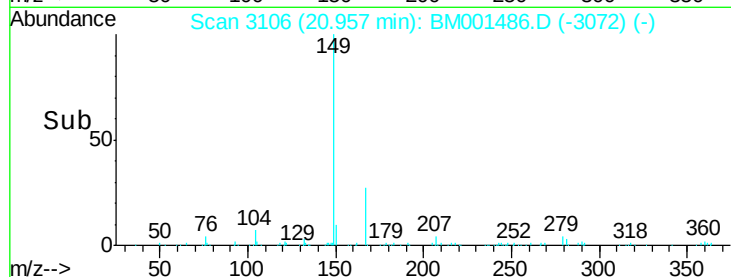
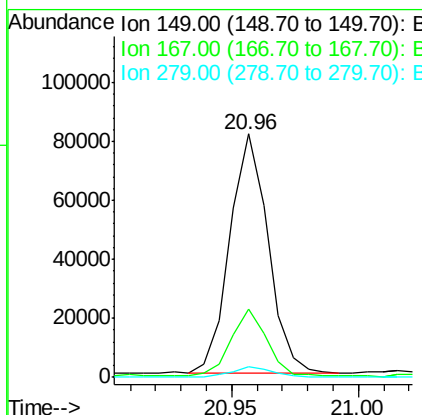
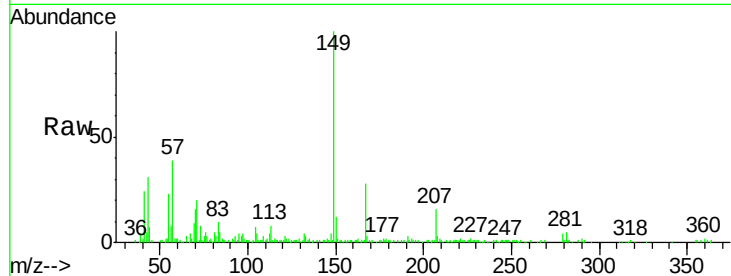
#81  
 Bis(2-ethylhexyl)phthalate  
 Concen: 2.26 ng/ul  
 RT: 20.96 min Scan# 3106  
 Delta R.T. 0.00 min  
 Lab File: BM001486.D  
 Acq: 30 May 2015 21:51

Instrument :  
 BNA\_M  
 ClientSampled :  
 BCRB9RE

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 149     | 100   | 84744 |       |       |
| 167     | 27.9  | 21.2  | 31.8  |       |
| 279     | 4.3   | 3.1   | 4.7   |       |

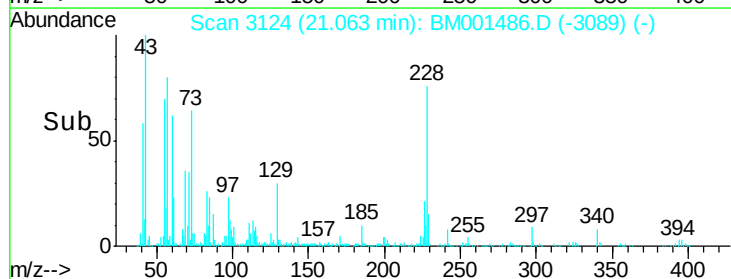
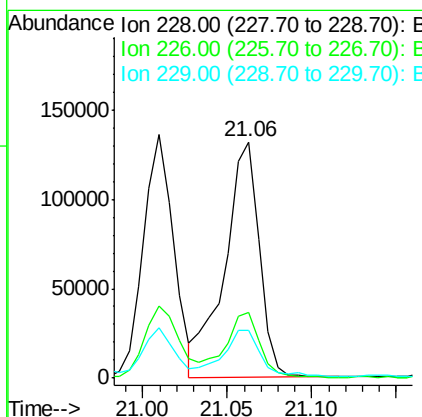
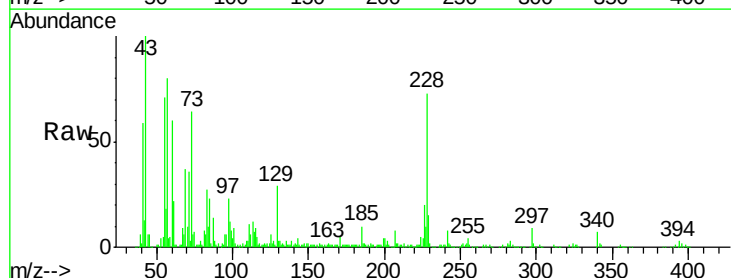
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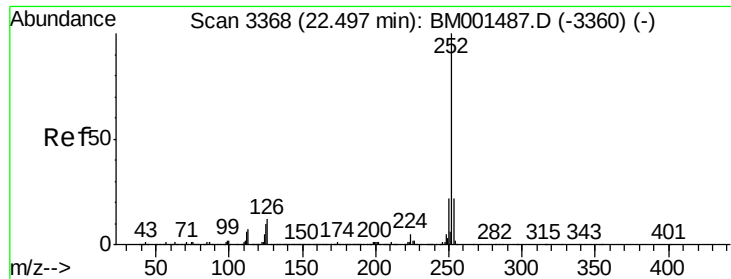
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#82  
 Chrysene  
 Concen: 3.40 ng/ul  
 RT: 21.06 min Scan# 3124  
 Delta R.T. 0.01 min  
 Lab File: BM001486.D  
 Acq: 30 May 2015 21:51

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 187857 |       |       |
| 226     | 27.9  | 23.0   | 34.4  |       |
| 229     | 20.2  | 15.7   | 23.5  |       |





#85

Benzo(b)fluoranthene

Concen: 4.94 ng/ul

RT: 22.50 min Scan# 3368

Delta R.T. 0.00 min

Lab File: BM001486.D

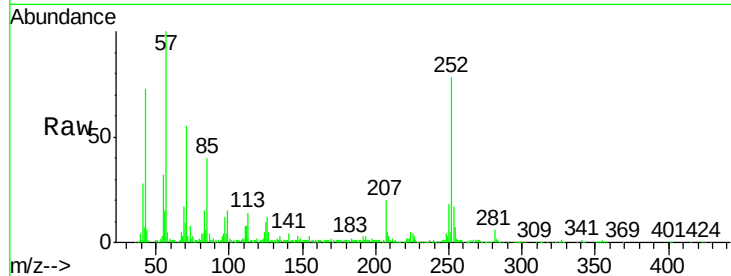
Acq: 30 May 2015 21:51

Instrument :

BNA\_M

ClientSampleId :

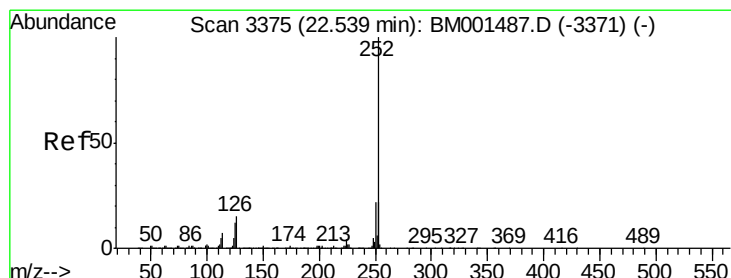
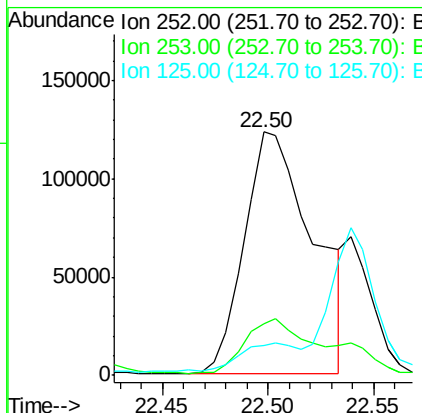
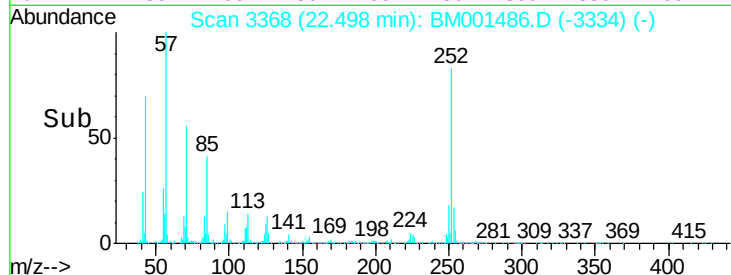
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| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 278024 |       |       |
| 253     | 21.3  | 18.0   | 27.0  |       |
| 125     | 12.3  | 8.6    | 12.8  |       |

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#86

Benzo(k)fluoranthene

Concen: 1.18 ng/ul m

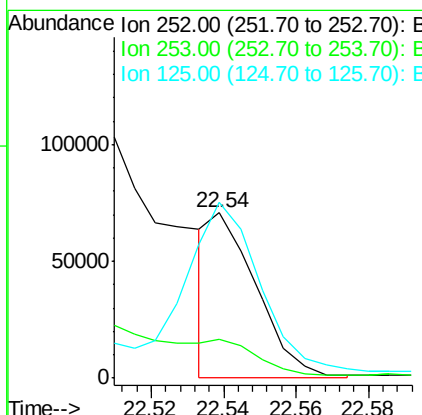
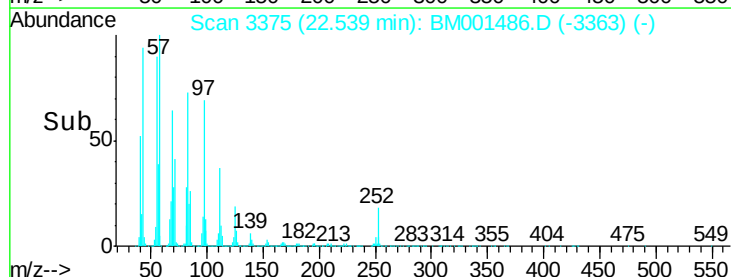
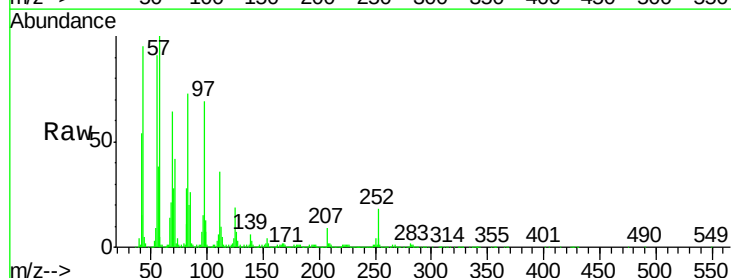
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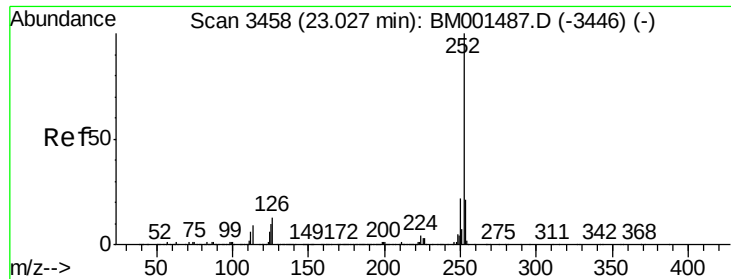
Delta R.T. 0.00 min

Lab File: BM001486.D

Acq: 30 May 2015 21:51

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 252     | 100   | 63472 |       |       |
| 253     | 23.2  | 17.4  | 26.0  |       |
| 125     | 106.2 | 8.6   | 13.0# |       |





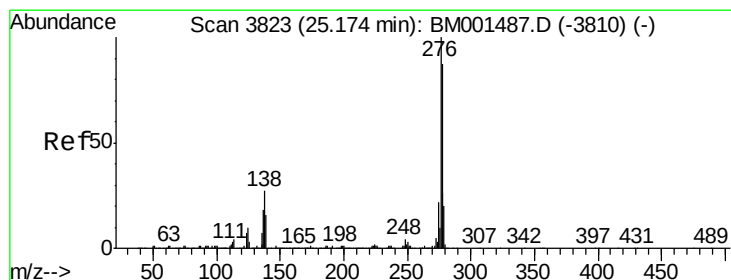
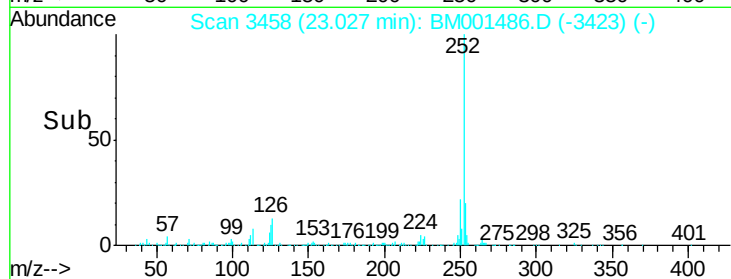
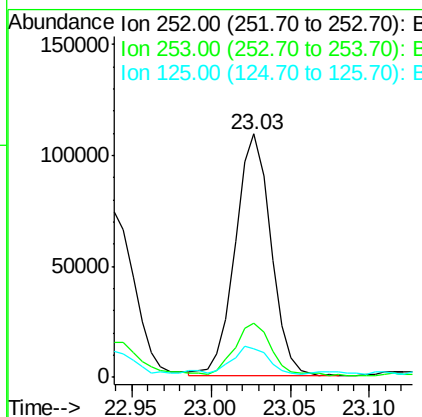
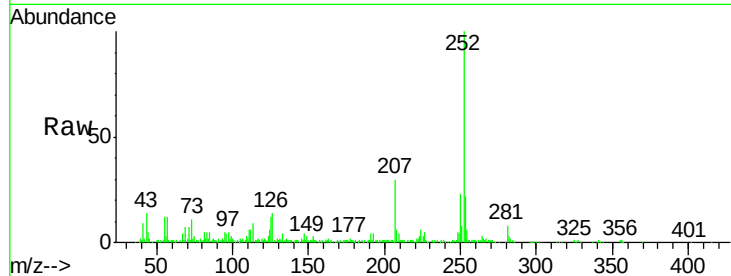
#88  
Benzo(a)pyrene  
Concen: 3.25 ng/ul  
RT: 23.03 min Scan# 3458  
Delta R.T. 0.01 min  
Lab File: BM001486.D  
Acq: 30 May 2015 21:51

Instrument :  
BNA\_M  
ClientSampleId :  
BCRB9RE

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 171645 |       |       |
| 253     | 22.1  | 17.0   | 25.4  |       |
| 125     | 11.6  | 8.8    | 13.2  |       |

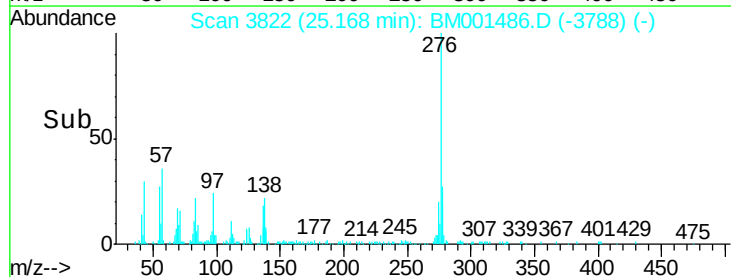
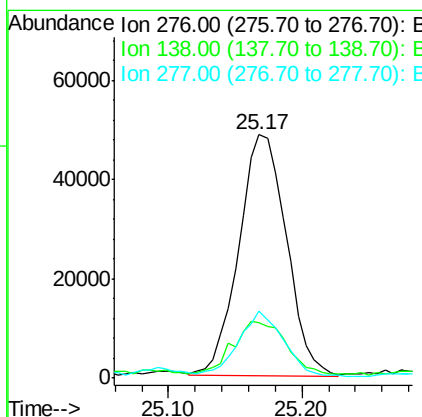
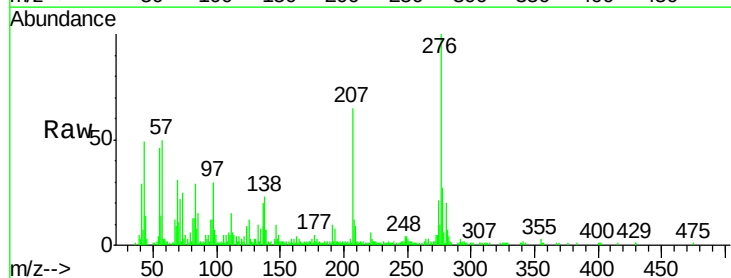
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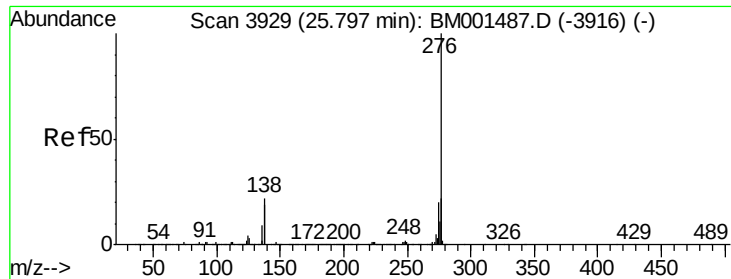


#89  
Indeno(1,2,3-cd)pyrene  
Concen: 2.16 ng/ul  
RT: 25.17 min Scan# 3822  
Delta R.T. 0.00 min  
Lab File: BM001486.D  
Acq: 30 May 2015 21:51

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 276     | 100   | 120190 |       |       |
| 138     | 22.8  | 20.6   | 31.0  |       |
| 277     | 27.5  | 19.2   | 28.8  |       |







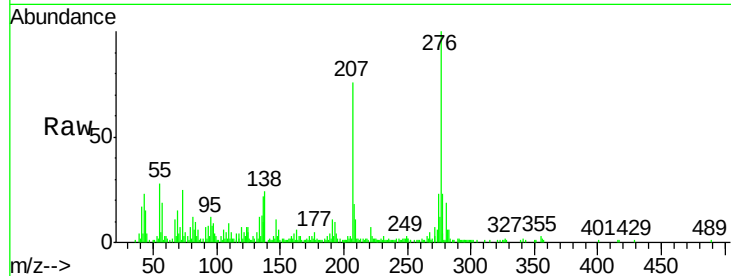
#91  
 Benzo(g,h,i)perylene  
 Concen: 2.57 ng/ul  
 RT: 25.80 min Scan# 3930  
 Delta R.T. 0.01 min  
 Lab File: BM001486.D  
 Acq: 30 May 2015 21:51

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BCRB9RE

|     |       |      |       |        |
|-----|-------|------|-------|--------|
| Tgt | Ion   | 276  | Resp  | 118185 |
| Ion | Ratio | 100  | Lower | Upper  |
| 276 | 100   |      |       |        |
| 138 | 24.4  | 17.9 | 26.9  |        |
| 277 | 23.2  | 19.7 | 29.5  |        |

Manual Integrations  
 APPROVED

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Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

