

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM070615\  
 Data File : BM001854.D  
 Acq On : 07 Jul 2015 03:08  
 Operator : TP/UM  
 Sample : G2861-01 10X  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 G93K7

Manual Integrations  
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 7/8/2015 4:23:44 PM

Quant Time: Jul 08 07:23:55 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM061515.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jul 07 04:02:33 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.66  | 152  | 53272    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.45 | 136  | 210769   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.32 | 164  | 130768   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.06 | 188  | 310913   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.25 | 240  | 362002   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.47 | 264  | 370231   | 20.00 | ng/ul | 0.00     |

| System Monitoring Compounds    | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 3) 1,4-Dioxane-d8              | 0.00  | 96   | 0        | 0.00 | ng/uL |          |
| 5) Phenol-d5                   | 6.83  | 99   | 5563     | 1.36 | ng/ul | 0.00     |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.00  | 67   | 3442     | 1.50 | ng/ul | 0.00     |
| 9) 2-Chlorophenol-d4           | 7.19  | 132  | 4876     | 1.51 | ng/ul | 0.00     |
| 13) 4-Methylphenol-d8          | 8.36  | 113  | 3421     | 1.04 | ng/ul | 0.00     |
| 19) Nitrobenzene-d5            | 8.82  | 128  | 2310     | 1.58 | ng/ul | 0.00     |
| 22) 2-Nitrophenol-d4           | 9.54  | 143  | 2557     | 1.60 | ng/ul | 0.00     |
| 26) 2,4-Dichlorophenol-d3      | 10.07 | 165  | 4715     | 1.38 | ng/ul | 0.00     |
| 29) 4-Chloroaniline-d4         | 10.59 | 131  | 2951     | 0.85 | ng/ul | 0.00     |
| 43) Dimethylphthalate-d6       | 13.73 | 166  | 14577    | 1.50 | ng/ul | 0.00     |
| 46) Acenaphthylene-d8          | 14.01 | 160  | 17700    | 1.39 | ng/ul | 0.00     |
| 51) 4-Nitrophenol-d4           | 14.52 | 143  | 799      | 0.45 | ng/ul | 0.00     |
| 57) Fluorene-d10               | 15.31 | 176  | 13930    | 1.55 | ng/ul | 0.00     |
| 62) 4,6-Dinitro-2-methylphenol | 15.43 | 200  | 906      | 0.48 | ng/ul | 0.00     |
| 70) Anthracene-d10             | 17.16 | 188  | 21501    | 1.48 | ng/ul | 0.00     |
| 78) Pyrene-d10                 | 19.46 | 212  | 22334    | 1.46 | ng/ul | 0.00     |
| 89) Benzo(a)pyrene-d12         | 23.33 | 264  | 19105    | 1.17 | ng/ul | 0.00     |

| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 69) Phenanthrene           | 17.10 | 178  | 40219    | 2.39 | ng/ul  | 95     |
| 76) Fluoranthene           | 19.12 | 202  | 79485    | 3.94 | ng/ul  | 98     |
| 79) Pyrene                 | 19.49 | 202  | 124859   | 6.22 | ng/ul  | 98     |
| 82) Benzo(a)anthracene     | 21.23 | 228  | 64447    | 3.05 | ng/ul  | 95     |
| 84) Chrysene               | 21.29 | 228  | 71753    | 3.58 | ng/ul  | 98     |
| 87) Benzo(b)fluoranthene   | 22.80 | 252  | 70569m   | 3.27 | ng/ul  |        |
| 88) Benzo(k)fluoranthene   | 22.83 | 252  | 22041m   | 1.06 | ng/ul  |        |
| 90) Benzo(a)pyrene         | 23.37 | 252  | 58166    | 2.77 | ng/ul  | 94     |
| 91) Indeno(1,2,3-cd)pyrene | 25.70 | 276  | 39778    | 1.60 | ng/ul# | 93     |
| 93) Benzo(g,h,i)perylene   | 26.39 | 276  | 41460    | 1.98 | ng/ul# | 96     |

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

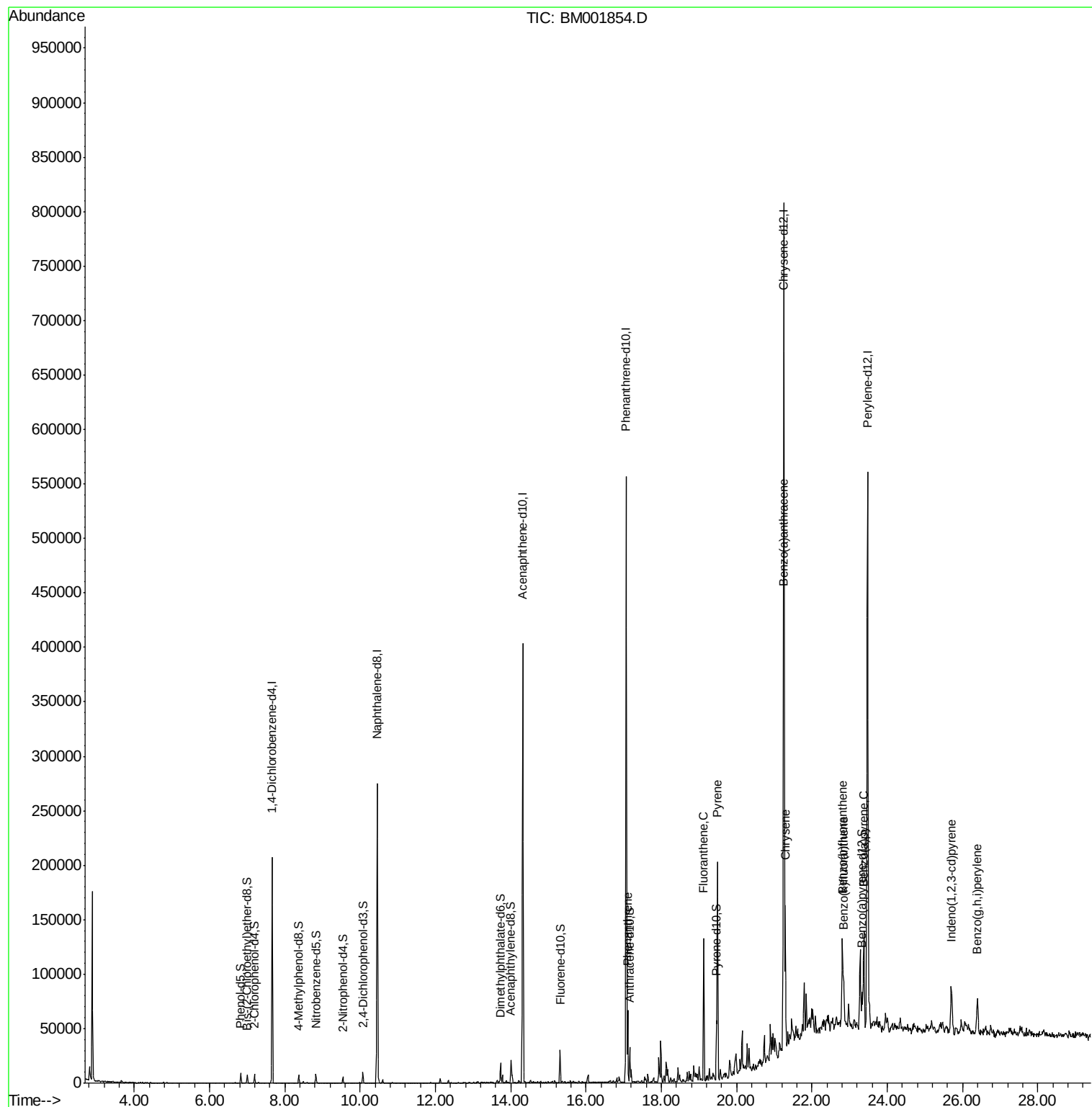
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM070615\  
Data File : BM001854.D  
Acq On : 07 Jul 2015 03:08  
Operator : TP/UM  
Sample : G2861-01 10X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

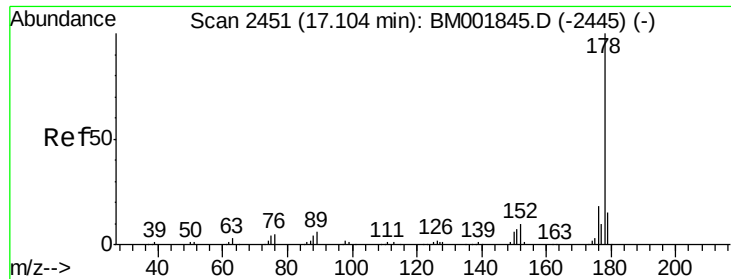
Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM061515.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Jul 07 04:02:33 2015  
Response via : Initial Calibration





#69

Phenanthrene

Concen: 2.39 ng/ul

RT: 17.10 min Scan# 2451

Delta R.T. 0.00 min

Lab File: BM001854.D

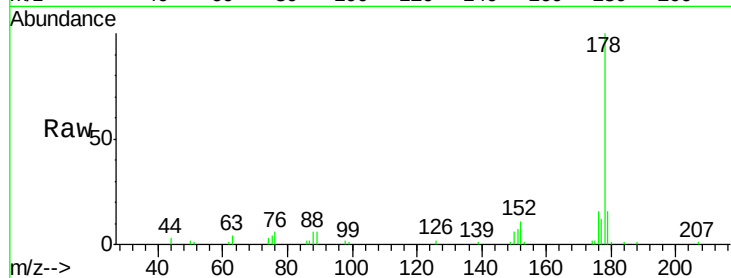
Acq: 07 Jul 2015 03:08

Instrument :

BNA\_M

ClientSampleId :

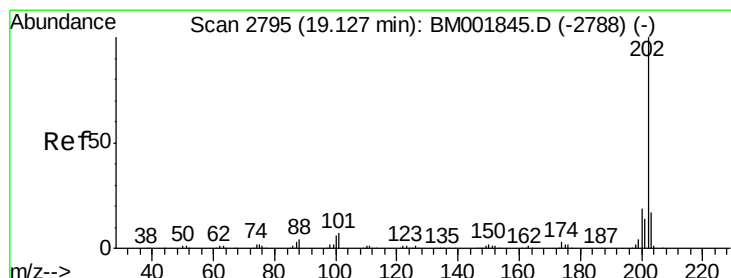
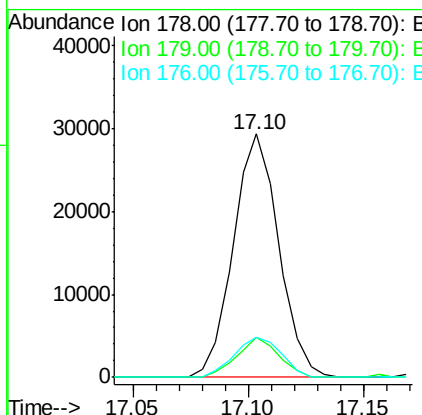
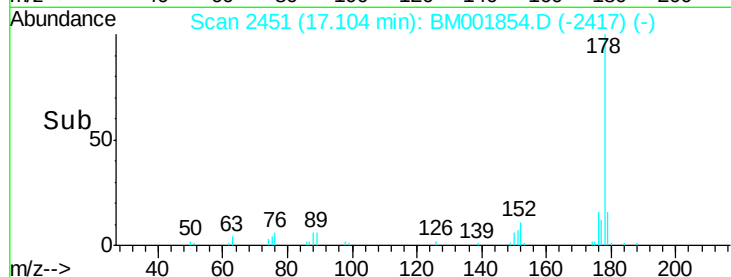
G93K7



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 40219 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 16.3  | 11.9  | 17.9  |
| 176       | 16.5  | 15.2  | 22.8  |

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#76

Fluoranthene

Concen: 3.94 ng/ul

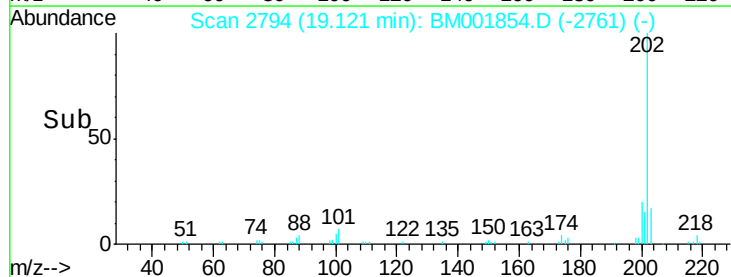
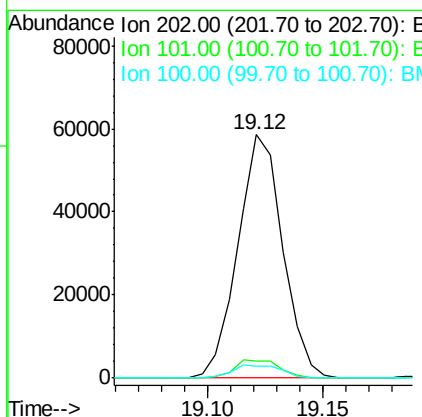
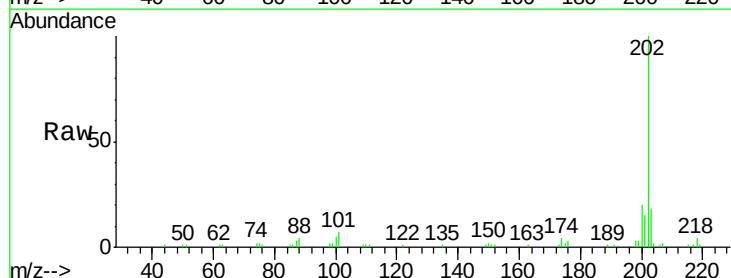
RT: 19.12 min Scan# 2794

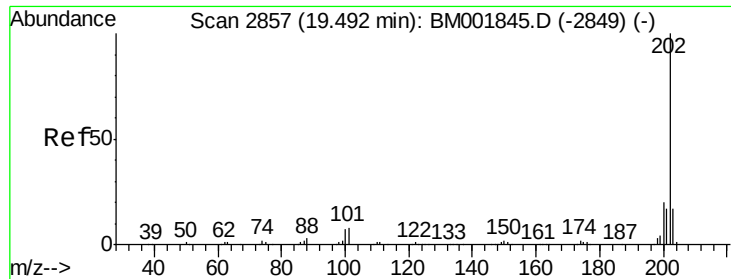
Delta R.T. -0.01 min

Lab File: BM001854.D

Acq: 07 Jul 2015 03:08

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 79485 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 7.2   | 6.1   | 9.1   |
| 100       | 5.0   | 4.8   | 7.2   |





#79

Pyrene

Concen: 6.22 ng/ul

RT: 19.49 min Scan# 2856

Delta R.T. 0.00 min

Lab File: BM001854.D

Acq: 07 Jul 2015 03:08

Instrument :

BNA\_M

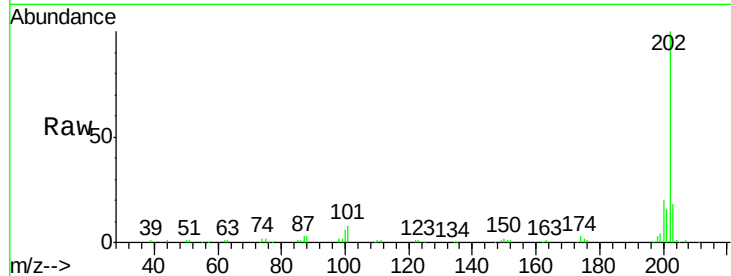
ClientSampleId :

G93K7

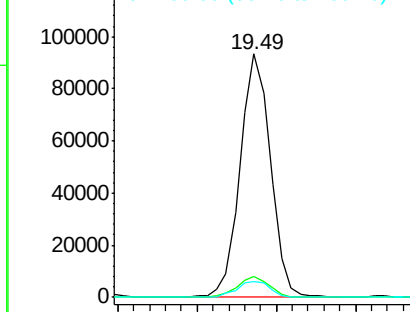
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 124859 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 8.4   | 6.9   | 10.3   |
| 100       | 6.4   | 6.2   | 9.2    |

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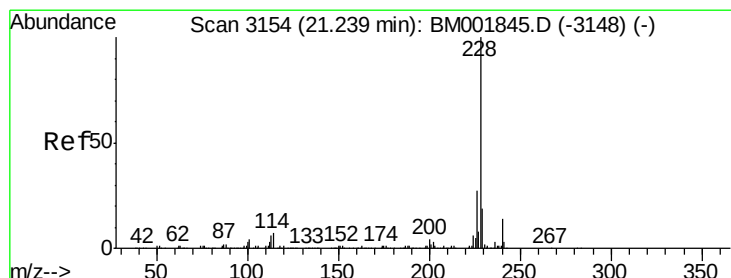
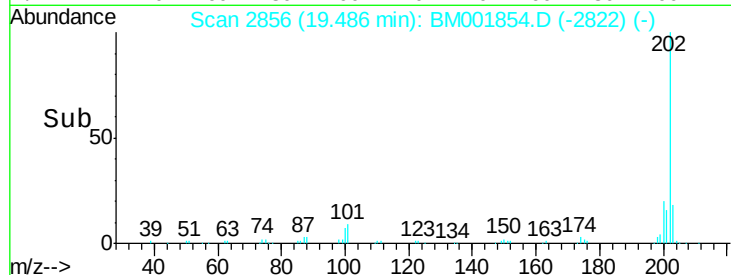
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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B



Time--> 19.40 19.45 19.50 19.55



#82

Benzo(a)anthracene

Concen: 3.05 ng/ul

RT: 21.23 min Scan# 3153

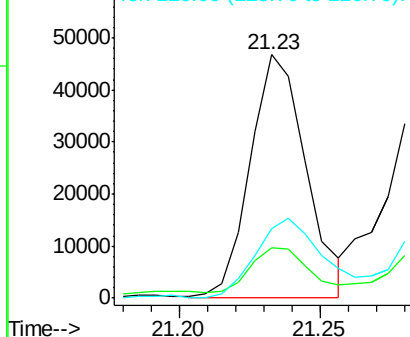
Delta R.T. -0.01 min

Lab File: BM001854.D

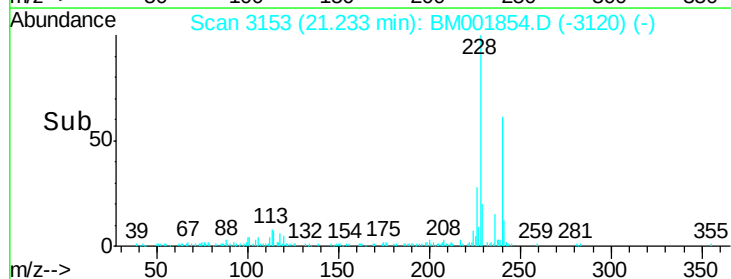
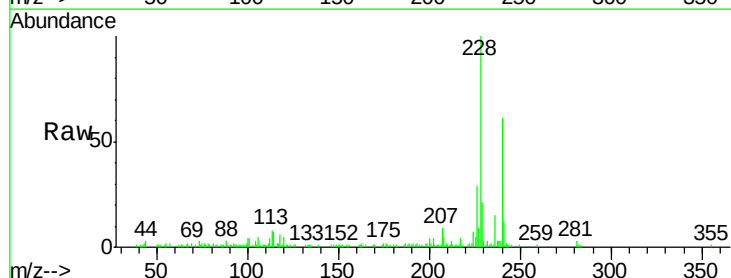
Acq: 07 Jul 2015 03:08

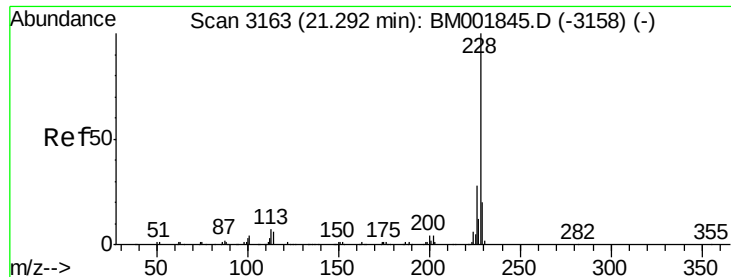
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 64447 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 20.9  | 15.4  | 23.0  |
| 226       | 28.5  | 20.6  | 30.8  |

Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 229.00 (228.70 to 229.70): E  
Ion 226.00 (225.70 to 226.70): E



Time--> 21.20 21.25





#84

Chrysene

Concen: 3.58 ng/ul

RT: 21.29 min Scan# 3162

Delta R.T. -0.01 min

Lab File: BM001854.D

Acq: 07 Jul 2015 03:08

Instrument :

BNA\_M

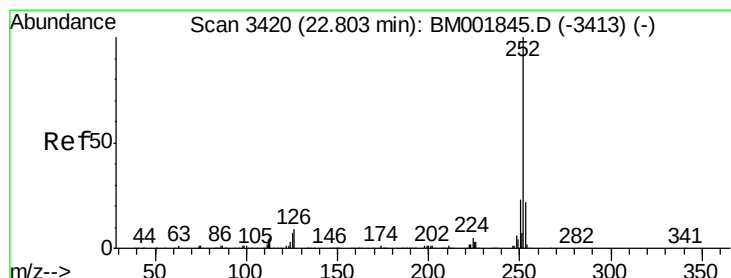
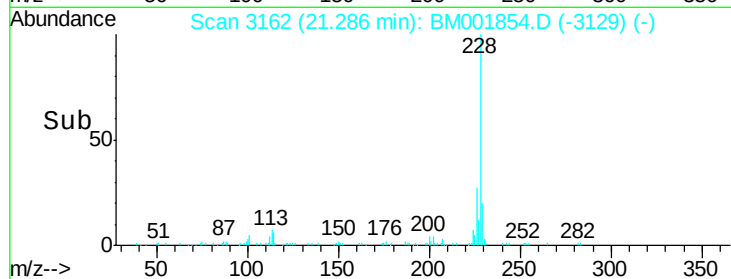
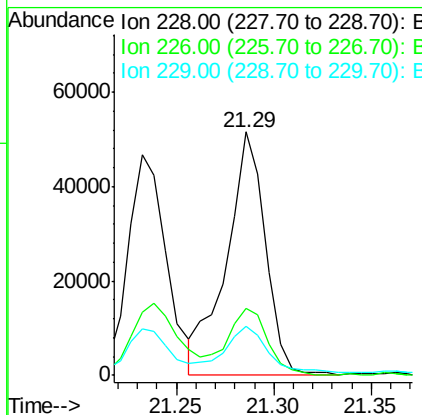
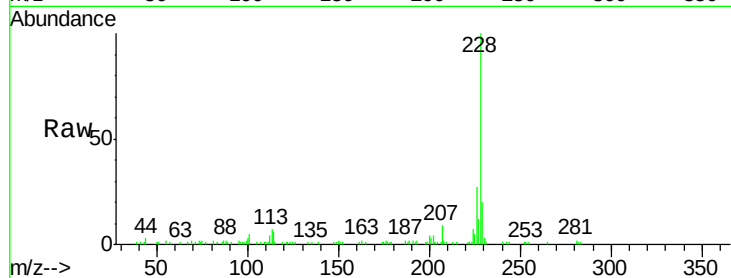
ClientSampleId :

G93K7

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 71753 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 27.3  | 23.0  | 34.4  |
| 229       | 20.4  | 15.4  | 23.2  |

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#87

Benzo(b)fluoranthene

Concen: 3.27 ng/ul m

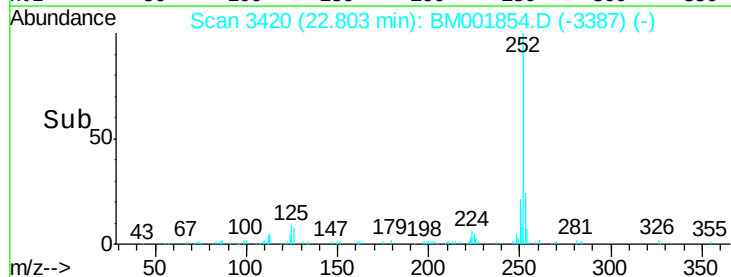
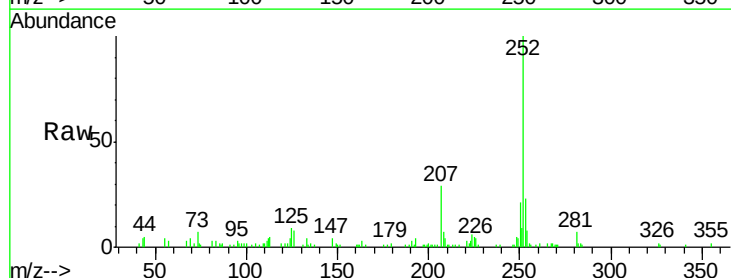
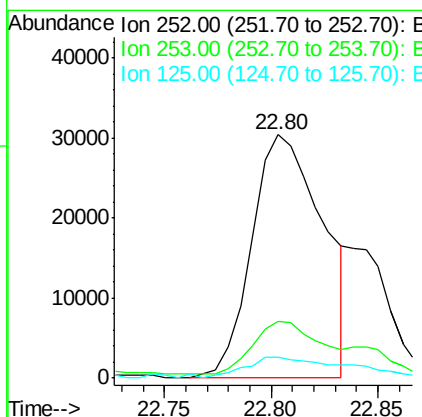
RT: 22.80 min Scan# 3420

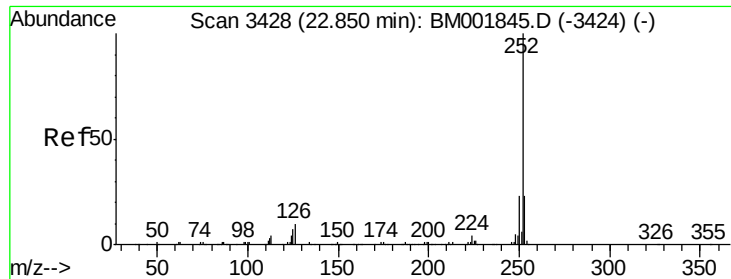
Delta R.T. -0.01 min

Lab File: BM001854.D

Acq: 07 Jul 2015 03:08

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 70569 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.4  | 17.8  | 26.6  |
| 125       | 8.7   | 5.3   | 7.9#  |





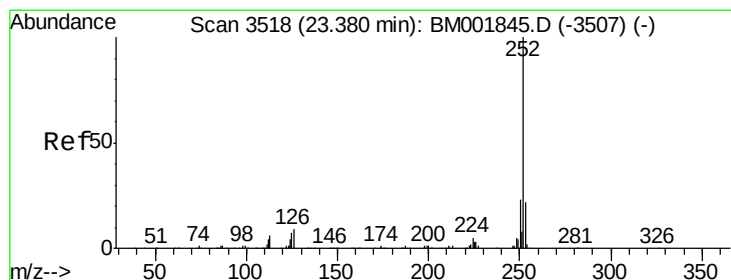
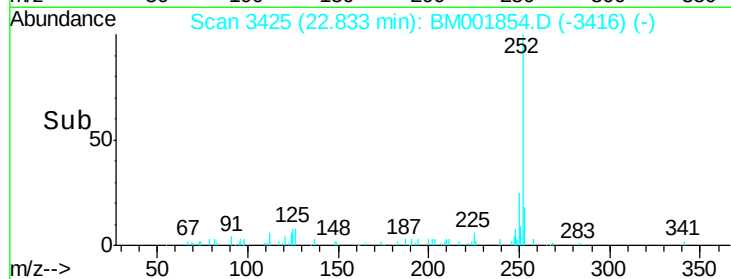
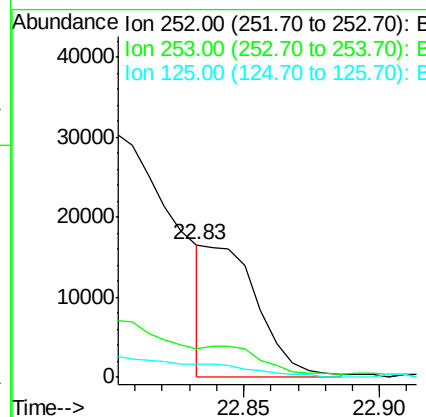
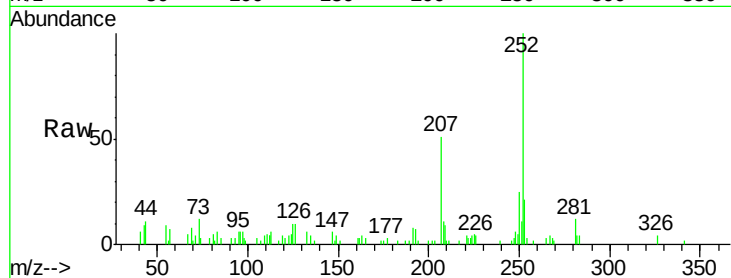
#88  
Benzo(k)fluoranthene  
Concen: 1.06 ng/ul m  
RT: 22.83 min Scan# 3425  
Delta R.T. -0.02 min  
Lab File: BM001854.D  
Acq: 07 Jul 2015 03:08

Instrument :  
BNA\_M  
ClientSampleId :  
G93K7

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.3  | 17.1  | 25.7  |
| 125     | 9.5   | 5.3   | 7.9   |

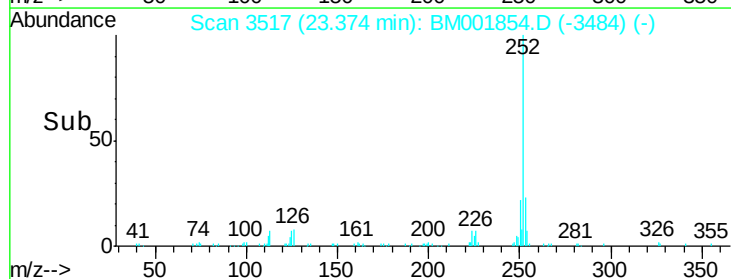
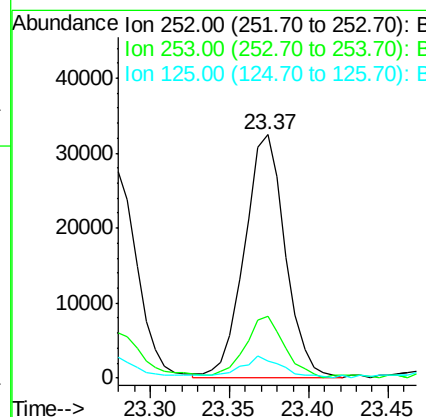
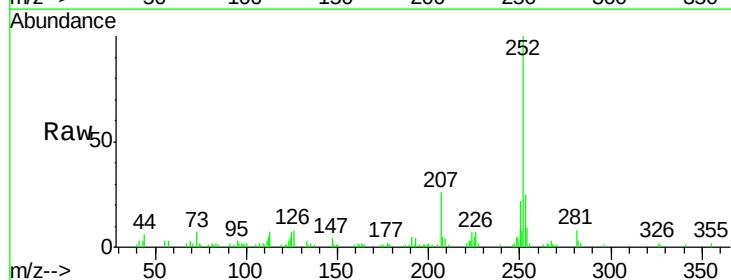
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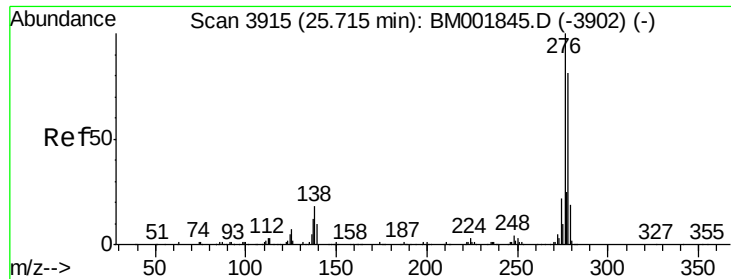
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#90  
Benzo(a)pyrene  
Concen: 2.77 ng/ul  
RT: 23.37 min Scan# 3517  
Delta R.T. -0.01 min  
Lab File: BM001854.D  
Acq: 07 Jul 2015 03:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.2  | 17.4  | 26.0  |
| 125     | 7.2   | 6.0   | 9.0   |





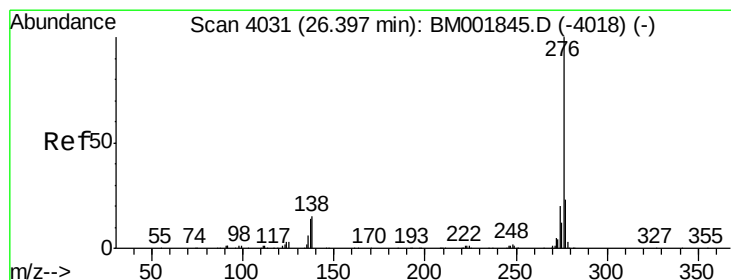
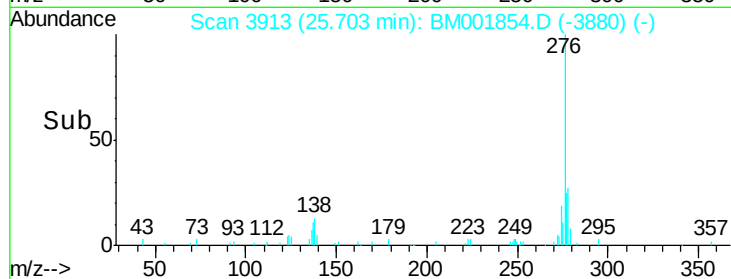
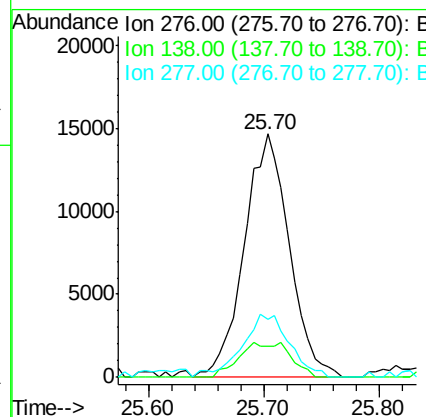
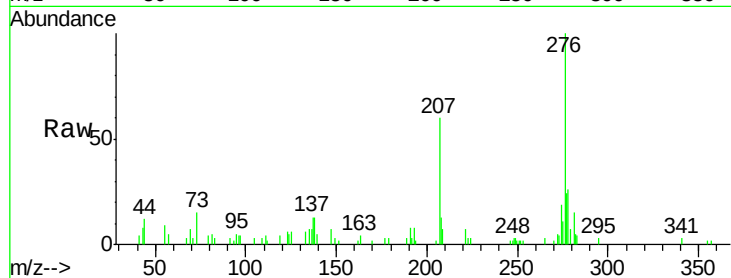
#91  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.60 ng/ul  
 RT: 25.70 min Scan# 3913  
 Delta R.T. -0.01 min  
 Lab File: BM001854.D  
 Acq: 07 Jul 2015 03:08

Instrument :  
 BNA\_M  
 ClientSampleId :  
 G93K7

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 12.5  | 14.7  | 22.1# |
| 277     | 23.8  | 19.7  | 29.5  |

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#93  
 Benzo(g,h,i)perylene  
 Concen: 1.98 ng/ul  
 RT: 26.39 min Scan# 4030  
 Delta R.T. -0.01 min  
 Lab File: BM001854.D  
 Acq: 07 Jul 2015 03:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 11.7  | 12.6  | 19.0# |
| 277     | 23.8  | 18.7  | 28.1  |

