

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM081315\  
 Data File : BM002383.D  
 Acq On : 13 Aug 2015 04:38  
 Operator : UM/IZ  
 Sample : G3194-03  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9D84

Manual Integrations  
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 8/14/2015 3:04:34 PM

Quant Time: Aug 13 05:42:01 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM080715MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 13 05:08:41 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.90  | 152  | 173212   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 11.77 | 136  | 766171   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 15.49 | 164  | 373114   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 18.20 | 188  | 656003   | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 22.28 | 240  | 464670   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 24.98 | 264  | 454360   | 20.00 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 7) Acenaphthylene-d8        | 15.19 | 160  | 685456   | 17.73 | ng/ul | 0.00     |
| 10) Fluorene-d10            | 16.46 | 176  | 431967   | 16.07 | ng/ul | 0.00     |
| 14) Anthracene-d10          | 18.29 | 188  | 544836   | 17.12 | ng/ul | 0.00     |
| 18) Pyrene-d10              | 20.51 | 212  | 414039   | 18.37 | ng/ul | 0.00     |
| 25) Benzo(a)pyrene-d12      | 24.80 | 264  | 279902   | 11.60 | ng/ul | 0.00     |

| Target Compounds           | R.T.  | QIon | Response | Conc | Units | Qvalue |
|----------------------------|-------|------|----------|------|-------|--------|
| 13) Phenanthrene           | 18.24 | 178  | 171674   | 4.55 | ng/ul | 99     |
| 16) Fluoranthene           | 20.18 | 202  | 246133   | 5.89 | ng/ul | 99     |
| 19) Pyrene                 | 20.54 | 202  | 205074   | 6.83 | ng/ul | 96     |
| 20) Benzo(a)anthracene     | 22.26 | 228  | 103065   | 3.63 | ng/ul | 98     |
| 21) Chrysene               | 22.32 | 228  | 108091   | 4.02 | ng/ul | 97     |
| 23) Benzo(b)fluoranthene   | 24.14 | 252  | 150667   | 5.34 | ng/ul | 97     |
| 24) Benzo(k)fluoranthene   | 24.19 | 252  | 53437m   | 1.97 | ng/ul |        |
| 26) Benzo(a)pyrene         | 24.86 | 252  | 104351   | 3.86 | ng/ul | 96     |
| 27) Indeno(1,2,3-cd)pyrene | 27.83 | 276  | 86388    | 2.79 | ng/ul | 93     |
| 29) Benzo(g,h,i)perylene   | 28.73 | 276  | 86583    | 3.31 | ng/ul | 99     |

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

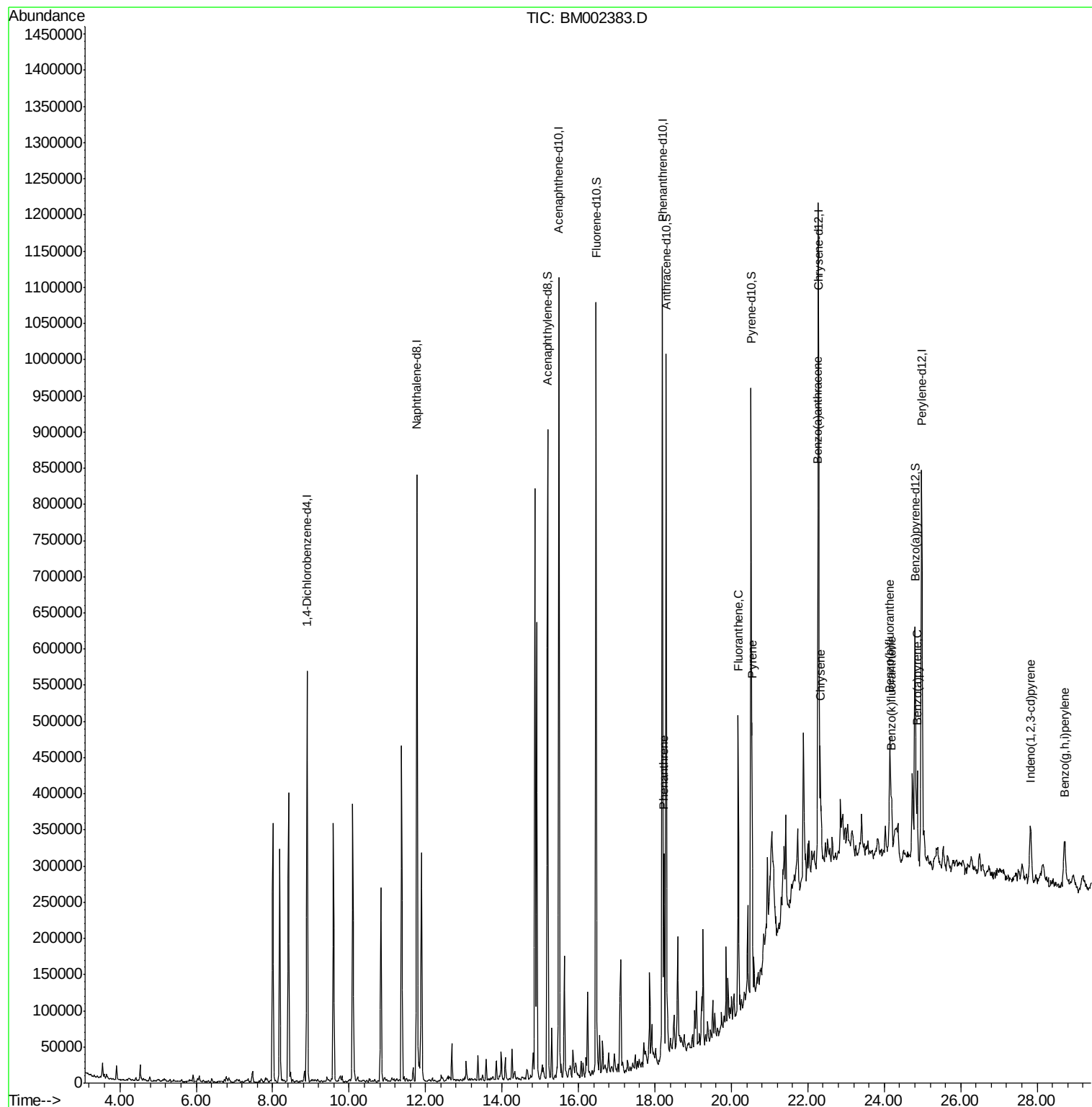
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM081315\  
Data File : BM002383.D  
Acq On : 13 Aug 2015 04:38  
Operator : UM/IZ  
Sample : G3194-03  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

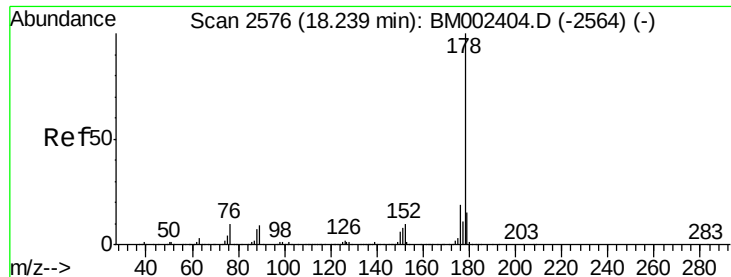
Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Time: Aug 13 05:42:01 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM080715MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Aug 13 05:08:41 2015  
Response via : Initial Calibration





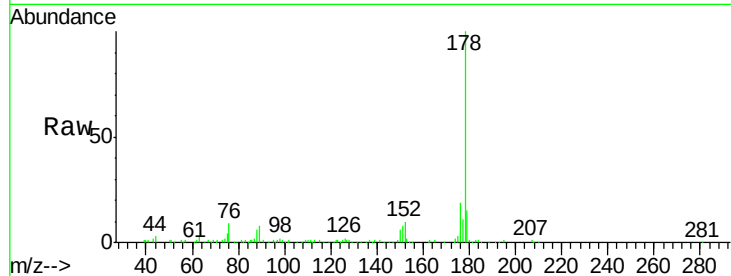
#13  
Phenanthrene  
Concen: 4.55 ng/ul  
RT: 18.24 min Scan# 2576  
Delta R.T. -0.00 min  
Lab File: BM002383.D  
Acq: 13 Aug 2015 04:38

Instrument :  
BNA\_M  
ClientSampleId :  
D9D84

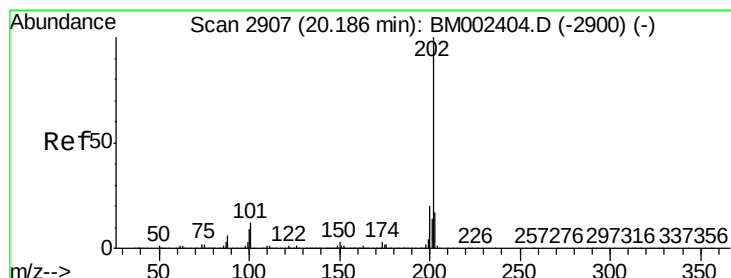
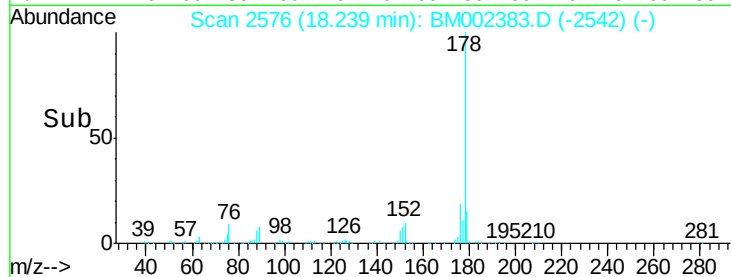
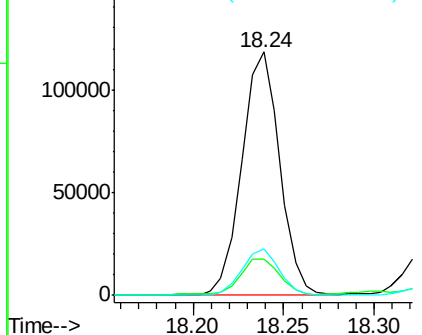
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 14.9  | 12.3  | 18.5  |
| 176     | 18.9  | 15.3  | 22.9  |

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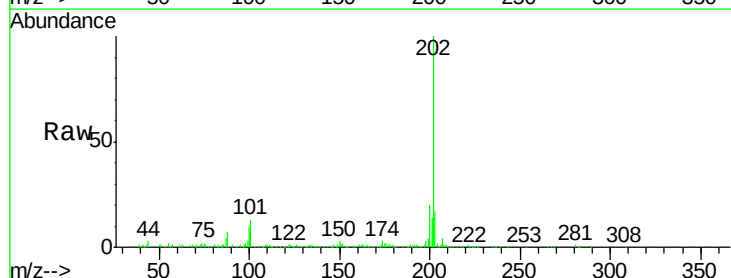


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E

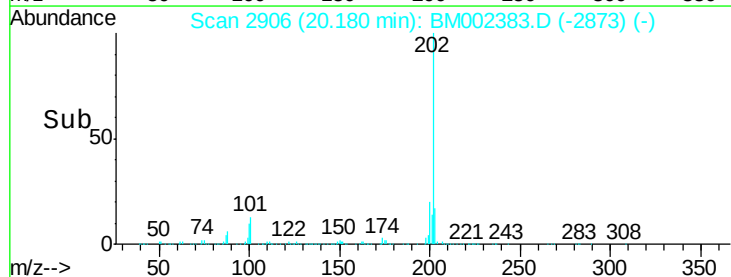
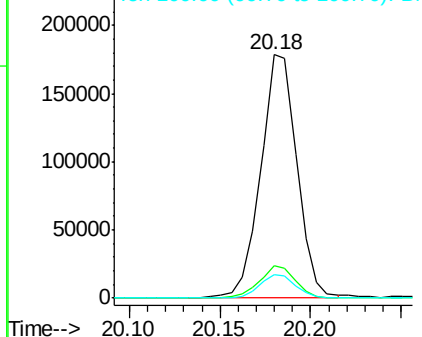


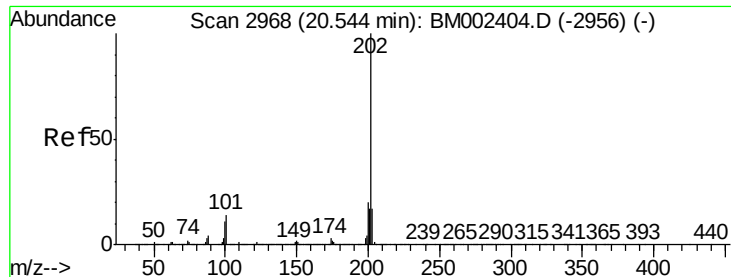
#16  
Fluoranthene  
Concen: 5.89 ng/ul  
RT: 20.18 min Scan# 2906  
Delta R.T. -0.01 min  
Lab File: BM002383.D  
Acq: 13 Aug 2015 04:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.2  | 10.6  | 15.8  |
| 100     | 9.9   | 8.2   | 12.4  |



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





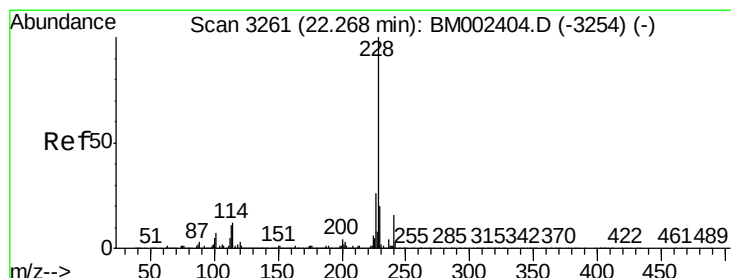
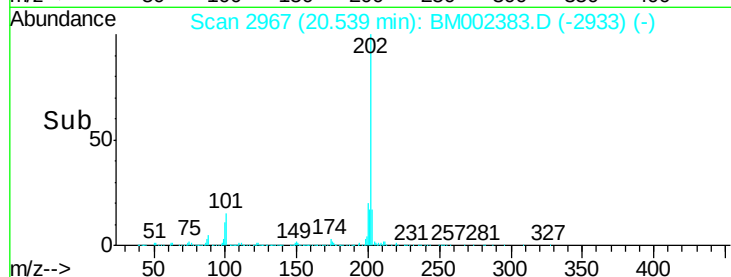
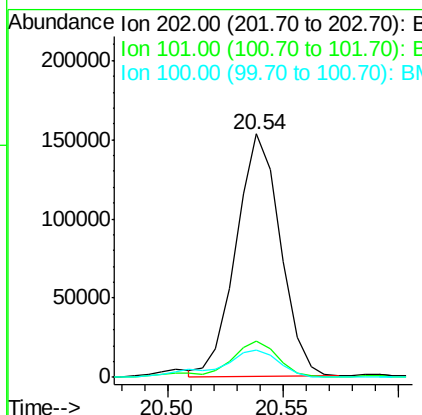
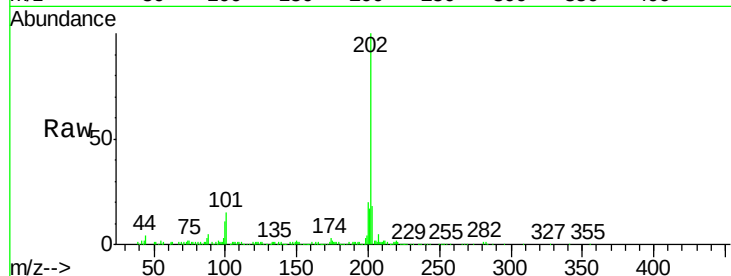
#19  
Pyrene  
Concen: 6.83 ng/ul  
RT: 20.54 min Scan# 2967  
Delta R.T. -0.00 min  
Lab File: BM002383.D  
Acq: 13 Aug 2015 04:38

Instrument :  
BNA\_M  
ClientSampleId :  
D9D84

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 15.2  | 13.0       | 19.6       |
| 100     | 11.5  | 11.0       | 16.4       |

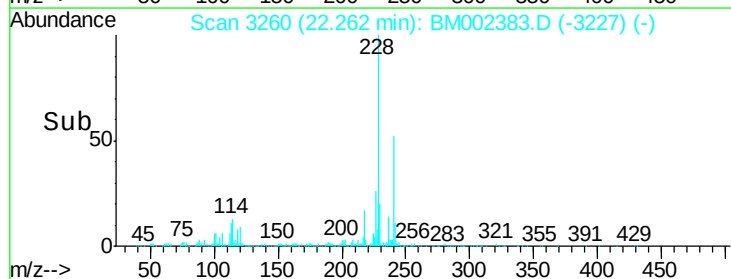
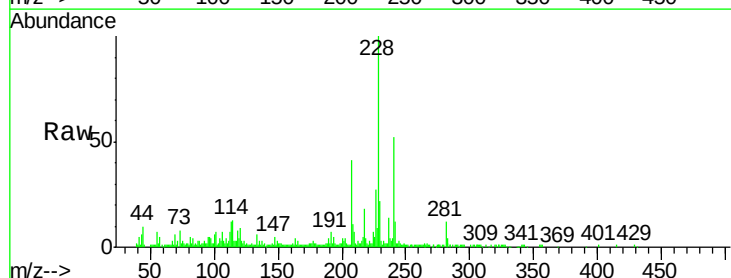
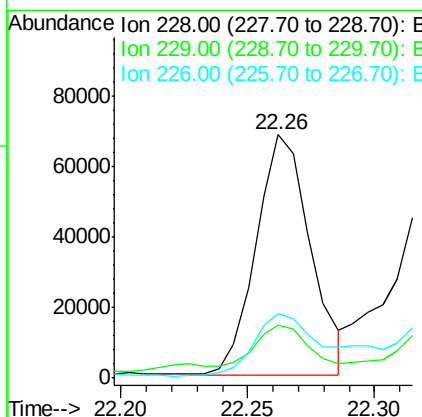
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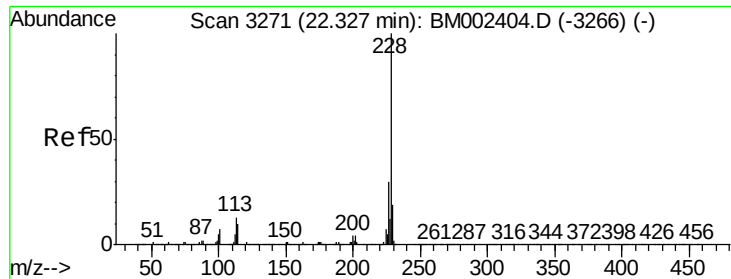
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#20  
Benzo(a)anthracene  
Concen: 3.63 ng/ul  
RT: 22.26 min Scan# 3260  
Delta R.T. -0.01 min  
Lab File: BM002383.D  
Acq: 13 Aug 2015 04:38

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 21.7  | 15.7       | 23.5       |
| 226     | 26.6  | 21.4       | 32.0       |





#21

Chrysene

Concen: 4.02 ng/ul

RT: 22.32 min Scan# 3270

Delta R.T. -0.01 min

Lab File: BM002383.D

Acq: 13 Aug 2015 04:38

Instrument :

BNA\_M

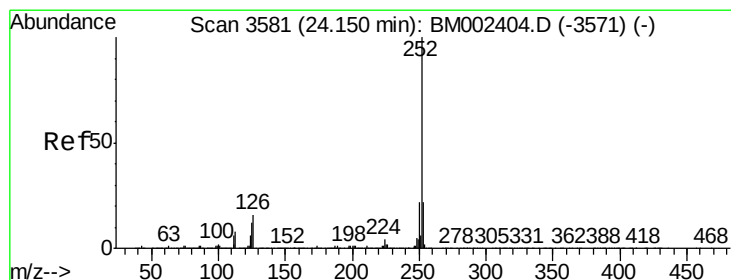
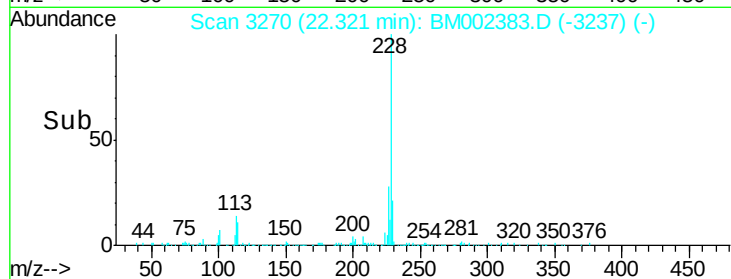
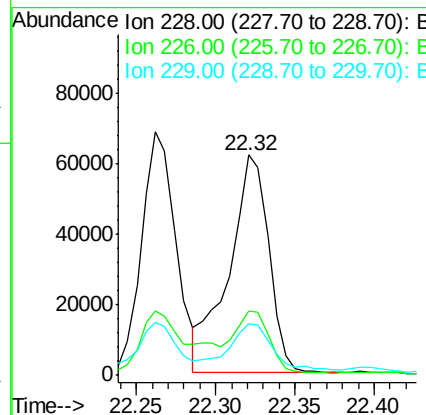
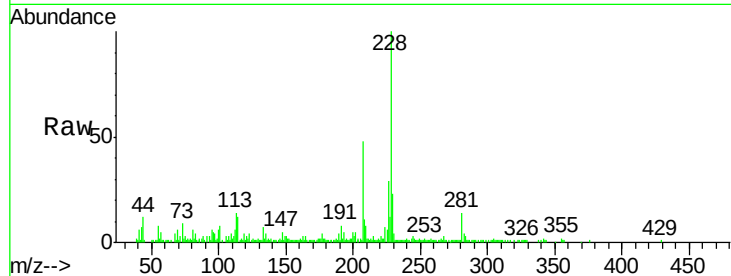
ClientSampleId :

D9D84

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 108091 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.1  | 23.4  | 35.0   |
| 229       | 23.3  | 15.5  | 23.3   |

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#23

Benzo(b)fluoranthene

Concen: 5.34 ng/ul

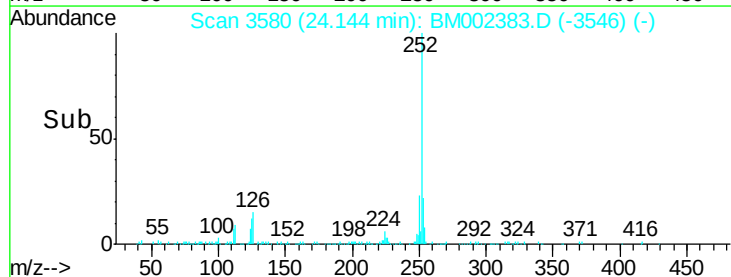
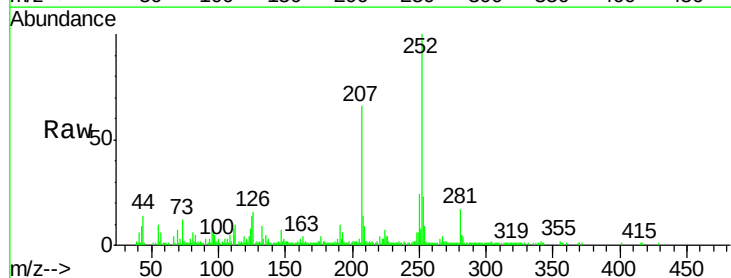
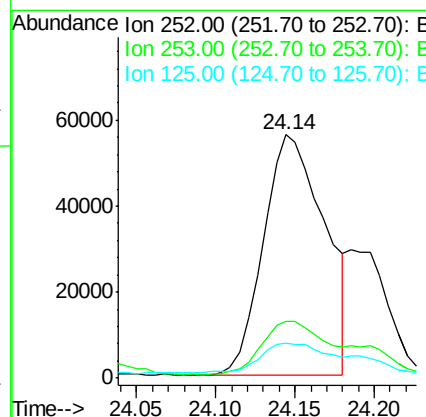
RT: 24.14 min Scan# 3580

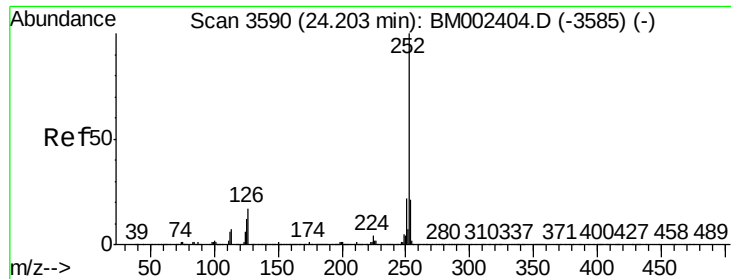
Delta R.T. -0.00 min

Lab File: BM002383.D

Acq: 13 Aug 2015 04:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 150667 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.3  | 17.9  | 26.9   |
| 125       | 14.4  | 10.3  | 15.5   |





#24

Benzo(k)fluoranthene

Concen: 1.97 ng/ul m

RT: 24.19 min Scan# 3587

Delta R.T. -0.02 min

Lab File: BM002383.D

Acq: 13 Aug 2015 04:38

Instrument :

BNA\_M

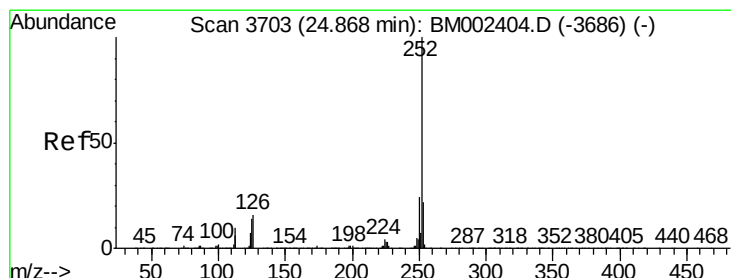
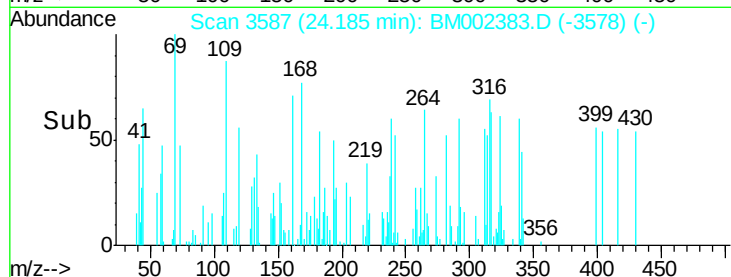
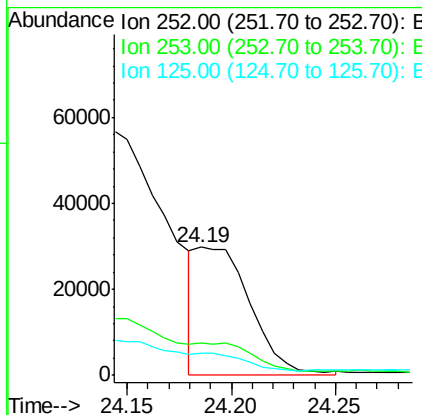
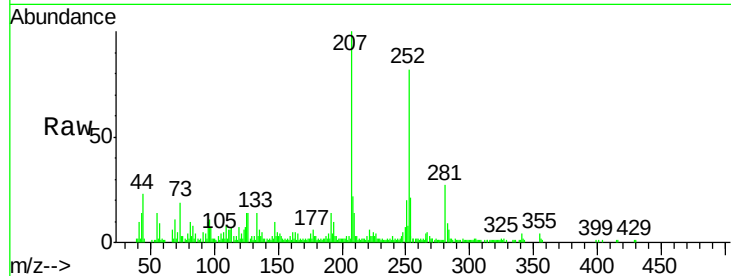
ClientSampled :

D9D84

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 53437 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.1  | 17.3  | 25.9  |
| 125       | 17.1  | 10.2  | 15.4# |

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#26

Benzo(a)pyrene

Concen: 3.86 ng/ul

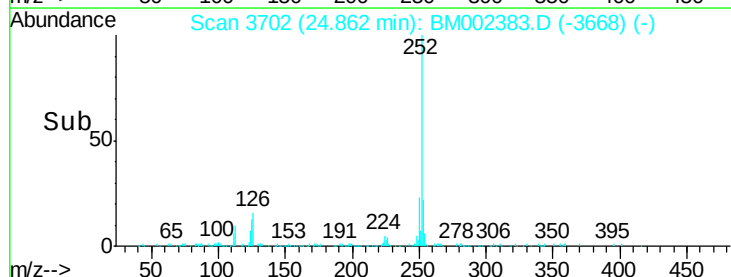
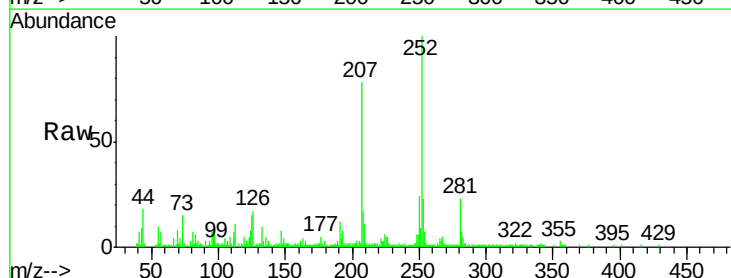
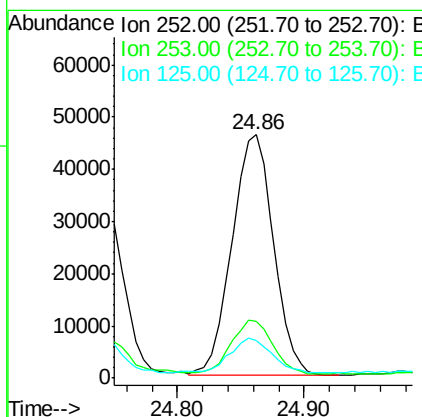
RT: 24.86 min Scan# 3702

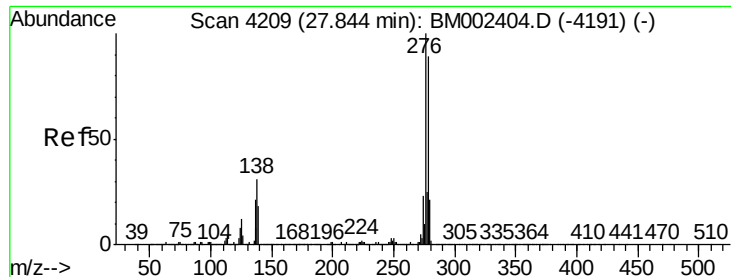
Delta R.T. -0.00 min

Lab File: BM002383.D

Acq: 13 Aug 2015 04:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 104351 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.5  | 17.3  | 25.9   |
| 125       | 15.2  | 11.0  | 16.6   |





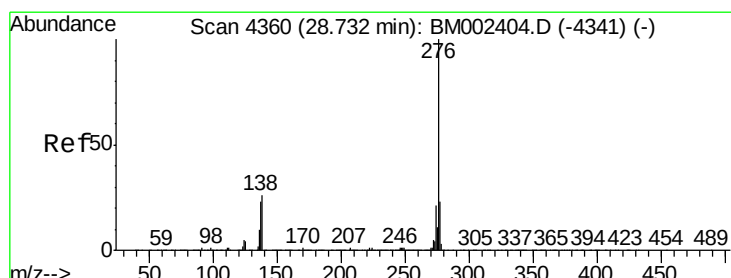
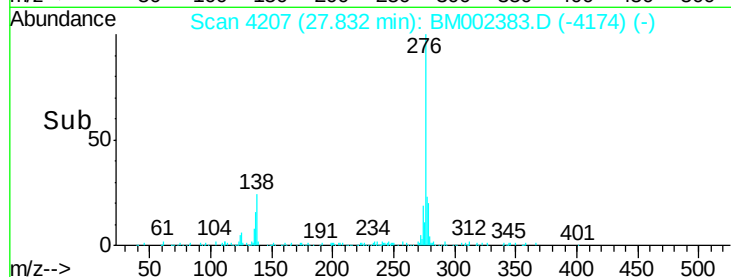
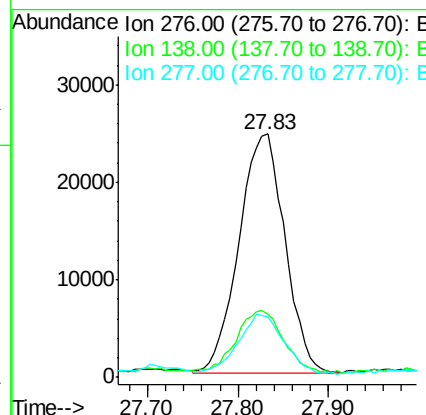
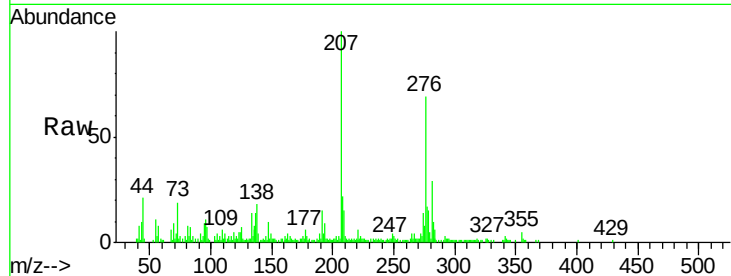
#27  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.79 ng/ul  
 RT: 27.83 min Scan# 4207  
 Delta R.T. -0.01 min  
 Lab File: BM002383.D  
 Acq: 13 Aug 2015 04:38

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9D84

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.8  | 25.6  | 38.4  |
| 277     | 25.0  | 21.0  | 31.4  |

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#29  
 Benzo(g,h,i)perylene  
 Concen: 3.31 ng/ul  
 RT: 28.73 min Scan# 4359  
 Delta R.T. 0.01 min  
 Lab File: BM002383.D  
 Acq: 13 Aug 2015 04:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 26.5  | 20.5  | 30.7  |
| 277     | 24.3  | 19.0  | 28.6  |

