

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM081415\  
 Data File : BM002442.D  
 Acq On : 16 Aug 2015 01:42  
 Operator : UM/IZ  
 Sample : G3219-02  
 Misc :  
 ALS Vial : 48 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9D95

Manual Integrations  
 APPROVED

MMDadoda  
 8/17/2015 2:47:39 PM

Quant Time: Aug 17 07:22:24 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM081415MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Aug 17 05:12:59 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.87  | 152  | 190444   | 20.00 | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 11.75 | 136  | 844601   | 20.00 | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 15.46 | 164  | 418794   | 20.00 | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 18.16 | 188  | 751975   | 20.00 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 22.24 | 240  | 496519   | 20.00 | ng/ul  | 0.00     |
| 22) Perylene-d12            | 24.91 | 264  | 497547   | 20.00 | ng/ul  | 0.02     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 7) Acenaphthylene-d8        | 15.16 | 160  | 892450   | 20.84 | ng/ul  | 0.00     |
| 10) Fluorene-d10            | 16.43 | 176  | 572723   | 19.04 | ng/ul  | 0.00     |
| 14) Anthracene-d10          | 18.26 | 188  | 721209   | 19.88 | ng/ul  | 0.00     |
| 18) Pyrene-d10              | 20.47 | 212  | 558072   | 25.36 | ng/ul  | 0.00     |
| 25) Benzo(a)pyrene-d12      | 24.74 | 264  | 458281   | 17.53 | ng/ul  | 0.02     |
| Target Compounds            |       |      |          |       |        |          |
|                             |       |      |          |       |        | Qvalue   |
| 3) Naphthalene              | 11.80 | 128  | 101416   | 2.35  | ng/ul  | 100      |
| 4) 2-Methylnaphthalene      | 13.34 | 142  | 90512    | 2.80  | ng/ul  | 100      |
| 5) 1-Methylnaphthalene      | 13.55 | 142  | 74305    | 2.33  | ng/ul  | 98       |
| 13) Phenanthrene            | 18.20 | 178  | 500988   | 11.54 | ng/ul  | 100      |
| 15) Anthracene              | 18.29 | 178  | 87704    | 1.99  | ng/ul  | 99       |
| 16) Fluoranthene            | 20.14 | 202  | 632651   | 12.87 | ng/ul  | 98       |
| 19) Pyrene                  | 20.50 | 202  | 487642   | 16.76 | ng/ul  | 100      |
| 20) Benzo(a)anthracene      | 22.22 | 228  | 265698   | 8.95  | ng/ul  | 98       |
| 21) Chrysene                | 22.28 | 228  | 279629m  | 10.07 | ng/ul  |          |
| 23) Benzo(b)fluoranthene    | 24.09 | 252  | 424707   | 14.12 | ng/ul  | 96       |
| 24) Benzo(k)fluoranthene    | 24.13 | 252  | 129143m  | 4.53  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 24.79 | 252  | 272782   | 9.49  | ng/ul  | 96       |
| 27) Indeno(1,2,3-cd)pyrene  | 27.74 | 276  | 227915   | 6.90  | ng/ul  | 94       |
| 28) Dibenzo(a,h)anthracene  | 27.73 | 278  | 60781    | 2.20  | ng/ul# | 71       |
| 29) Benzo(g,h,i)perylene    | 28.62 | 276  | 204012   | 7.42  | ng/ul  | 97       |

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

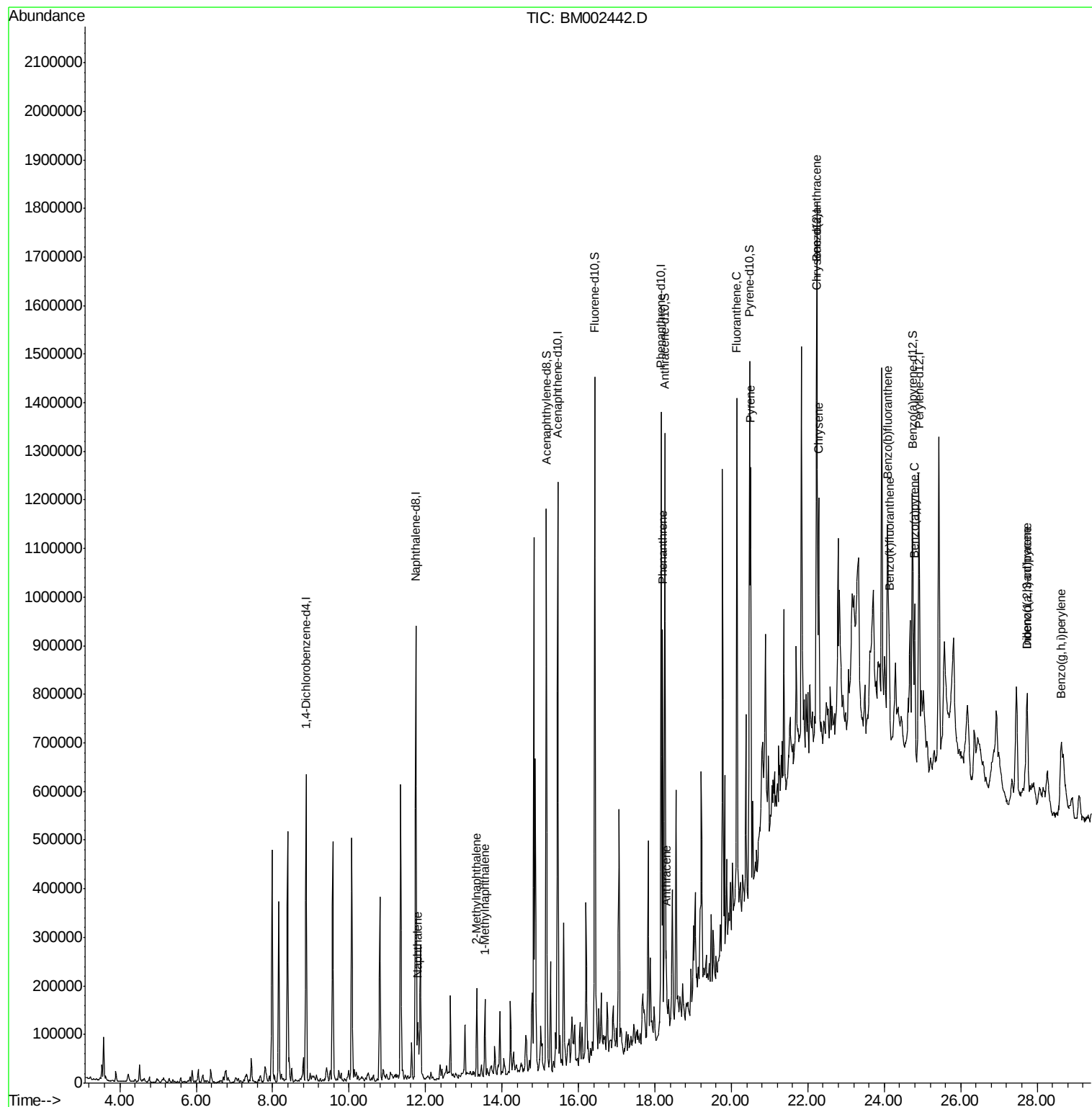
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM081415\  
Data File : BM002442.D  
Acq On : 16 Aug 2015 01:42  
Operator : UM/IZ  
Sample : G3219-02  
Misc :  
ALS Vial : 48 Sample Multiplier: 1

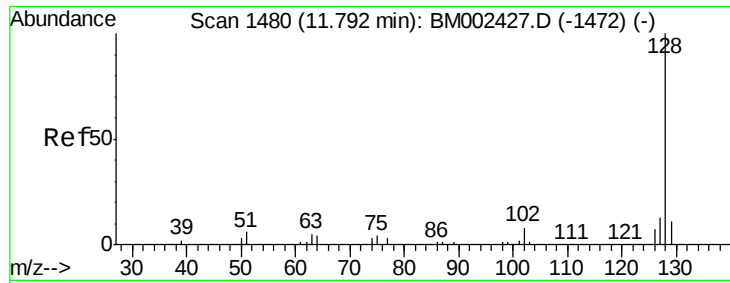
Instrument :  
BNA\_M  
ClientSampleId :  
D9D95

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8/17/2015 2:47:39 PM

Quant Time: Aug 17 07:22:24 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM081415MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Aug 17 05:12:59 2015  
Response via : Initial Calibration





#3

Naphthalene

Concen: 2.35 ng/ul

RT: 11.80 min Scan# 1481

Delta R.T. 0.01 min

Lab File: BM002442.D

Acq: 16 Aug 2015 01:42

Instrument :

BNA\_M

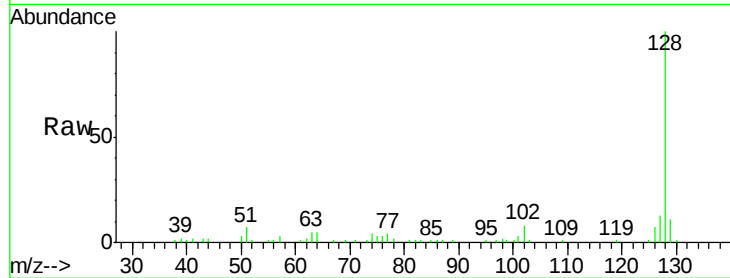
ClientSampleId :

D9D95

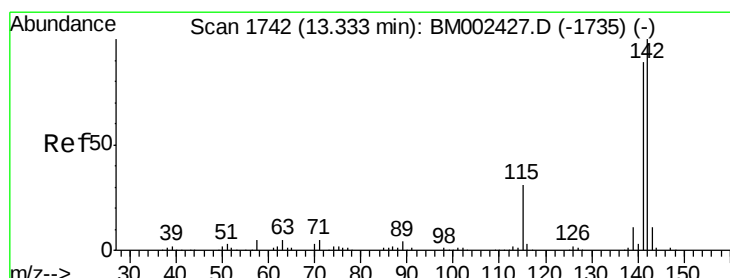
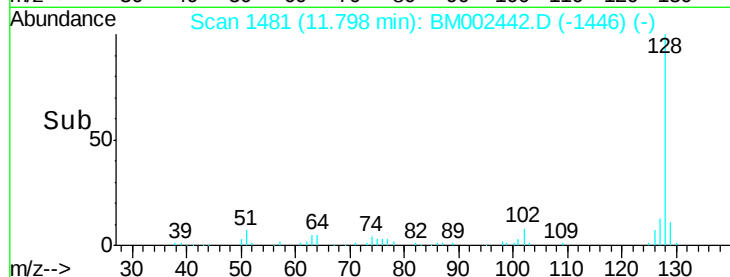
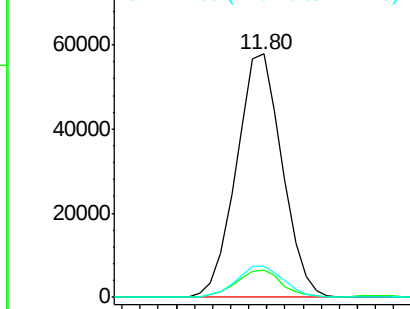
|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 128  | Resp: | 101416 |
| Ion Ratio |      | Lower | Upper  |
| 128       | 100  |       |        |
| 129       | 11.1 | 8.6   | 12.8   |
| 127       | 13.0 | 10.4  | 15.6   |

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Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E



#4

2-Methylnaphthalene

Concen: 2.80 ng/ul

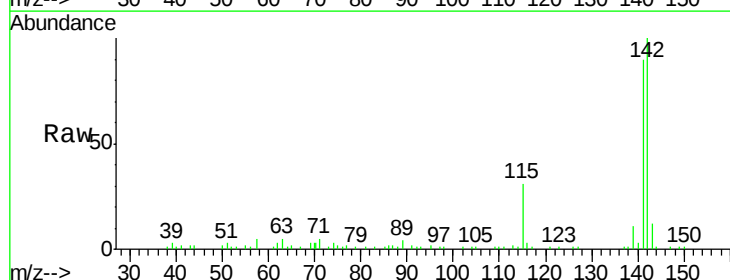
RT: 13.34 min Scan# 1743

Delta R.T. 0.01 min

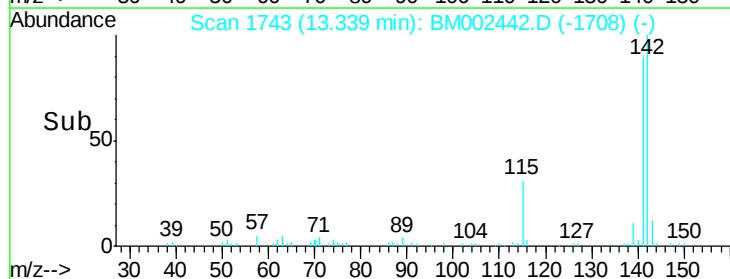
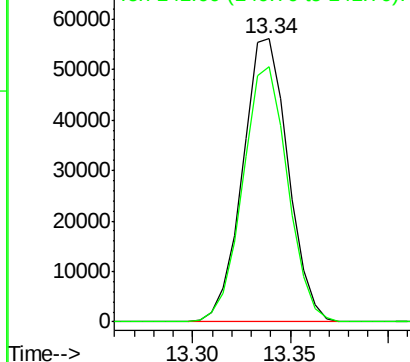
Lab File: BM002442.D

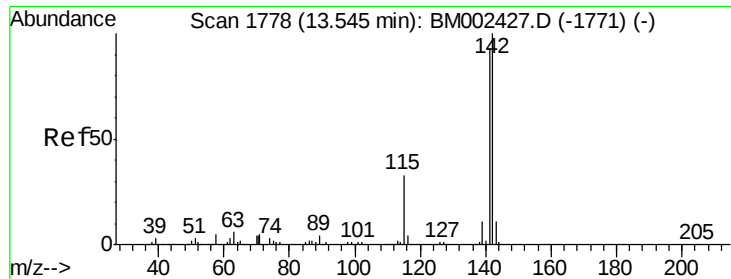
Acq: 16 Aug 2015 01:42

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 142  | Resp: | 90512 |
| Ion Ratio |      | Lower | Upper |
| 142       | 100  |       |       |
| 141       | 90.1 | 72.2  | 108.2 |



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E





#5

1-Methylnaphthalene

Concen: 2.33 ng/ul

RT: 13.55 min Scan# 1779

Delta R.T. 0.01 min

Lab File: BM002442.D

Acq: 16 Aug 2015 01:42

Instrument :

BNA\_M

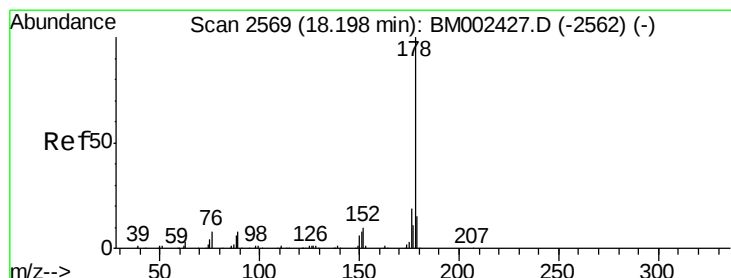
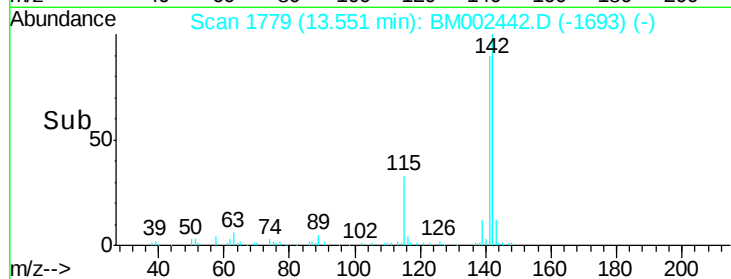
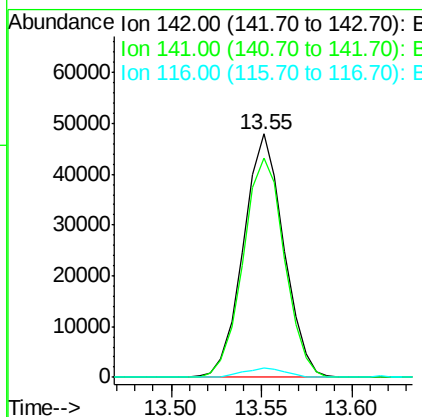
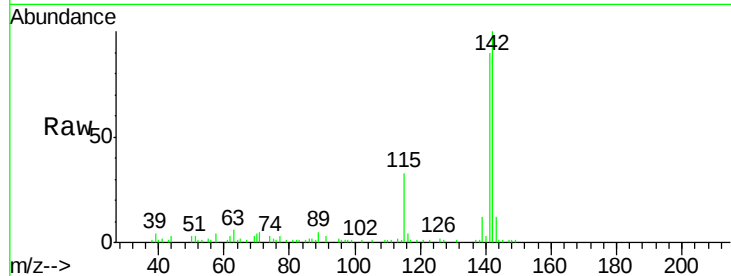
ClientSampleId :

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|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 74305 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 90.3  | 73.9  | 110.9 |
| 116       | 3.9   | 3.0   | 4.4   |

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#13

Phenanthrene

Concen: 11.54 ng/ul

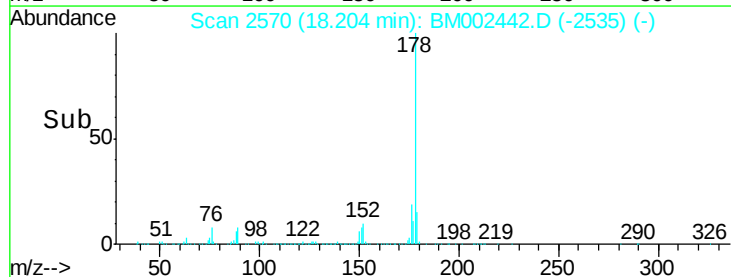
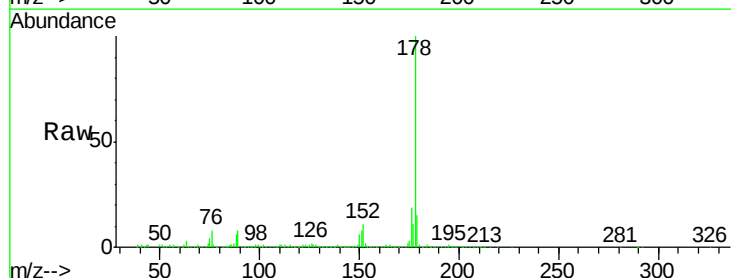
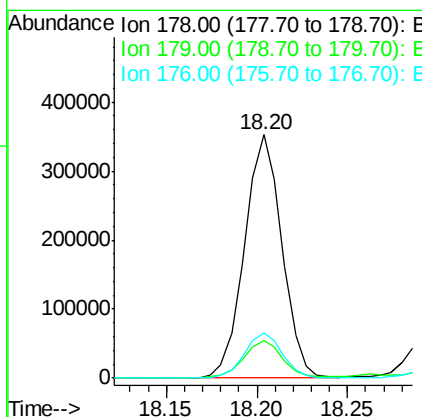
RT: 18.20 min Scan# 2570

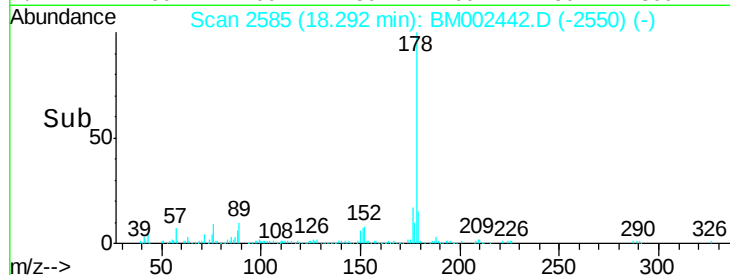
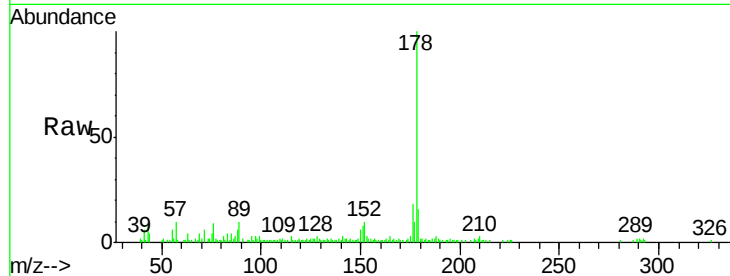
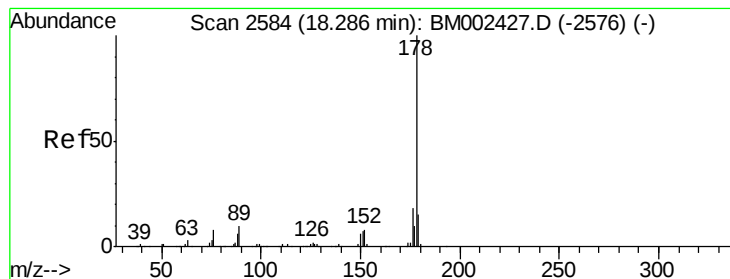
Delta R.T. 0.01 min

Lab File: BM002442.D

Acq: 16 Aug 2015 01:42

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 500988 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.4  | 12.4  | 18.6   |
| 176       | 18.6  | 15.1  | 22.7   |





#15

Anthracene

Concen: 1.99 ng/ul

RT: 18.29 min Scan# 2585

Delta R.T. 0.01 min

Lab File: BM002442.D

Acq: 16 Aug 2015 01:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 87704 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 16.1  | 12.6  | 18.8  |
| 176       | 18.0  | 14.5  | 21.7  |

Instrument :

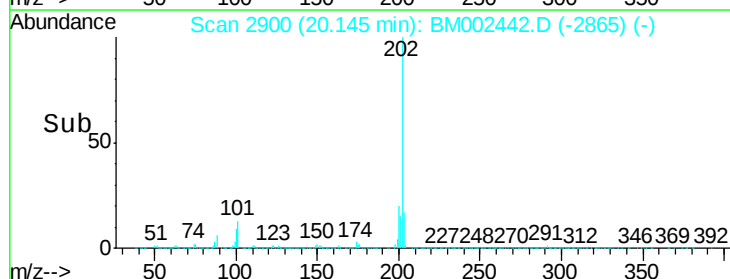
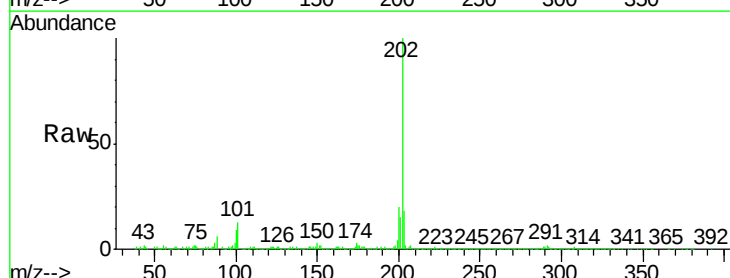
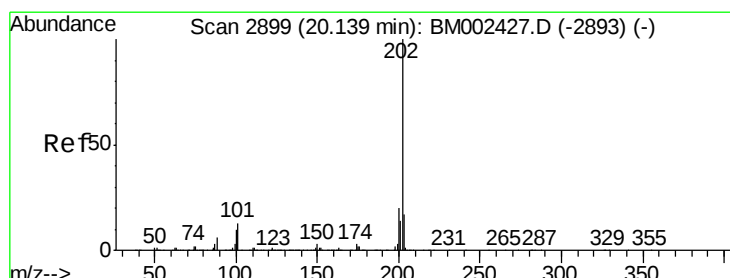
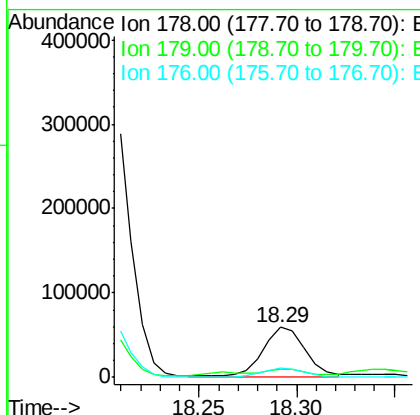
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#16

Fluoranthene

Concen: 12.87 ng/ul

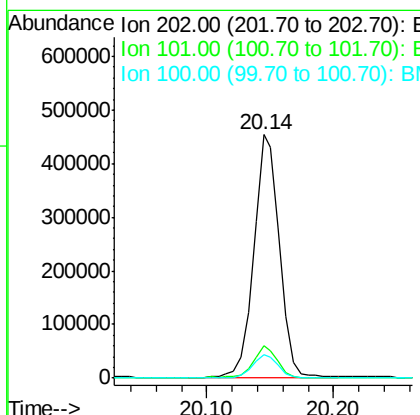
RT: 20.14 min Scan# 2900

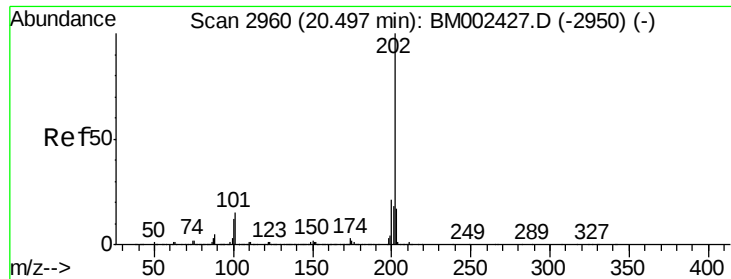
Delta R.T. 0.01 min

Lab File: BM002442.D

Acq: 16 Aug 2015 01:42

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 632651 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 13.1  | 9.7   | 14.5   |
| 100       | 9.5   | 7.4   | 11.2   |





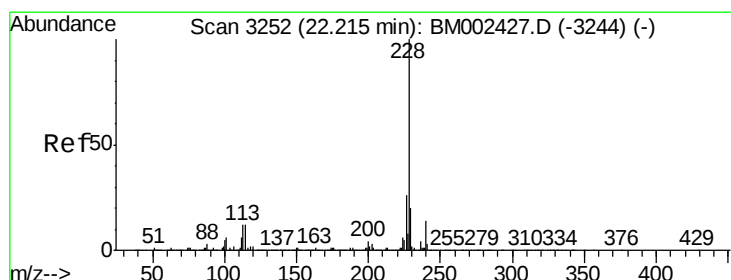
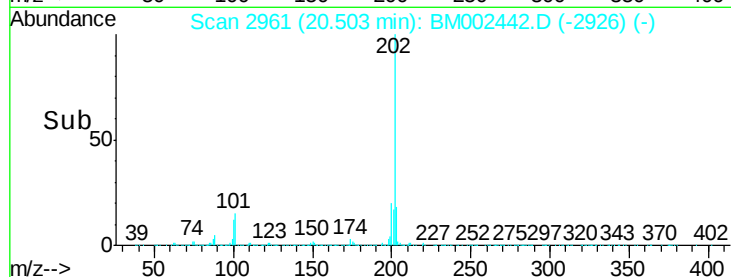
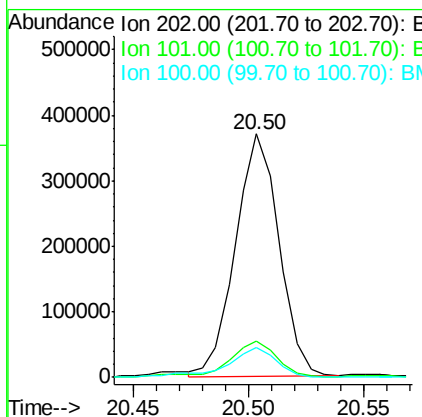
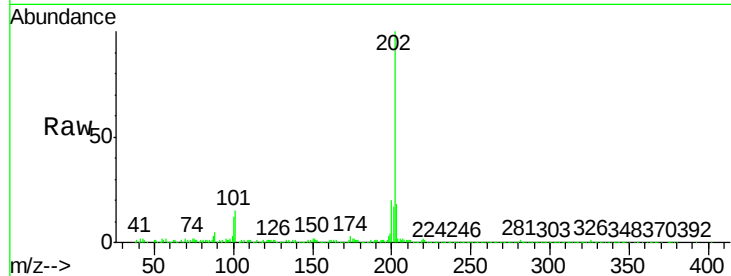
#19  
 Pyrene  
 Concen: 16.76 ng/ul  
 RT: 20.50 min Scan# 2961  
 Delta R.T. 0.01 min  
 Lab File: BM002442.D  
 Acq: 16 Aug 2015 01:42

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9D95

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 487642 |       |       |
| 101     | 14.7  | 12.0   | 18.0  |       |
| 100     | 12.0  | 9.7    | 14.5  |       |

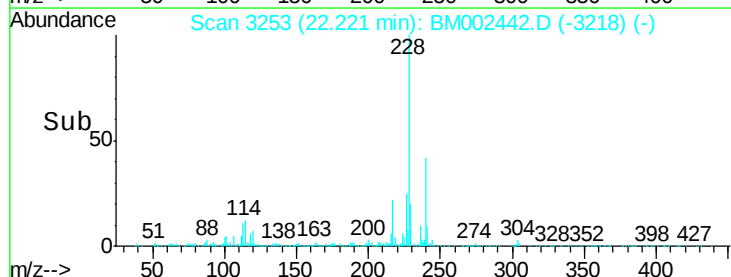
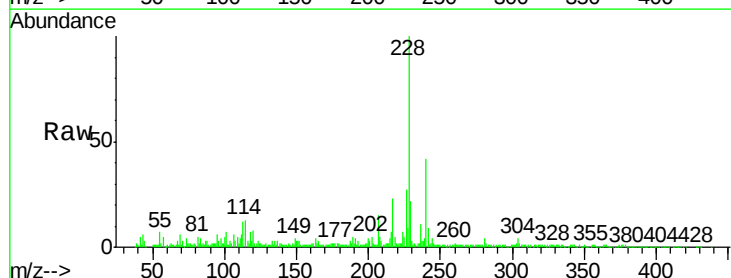
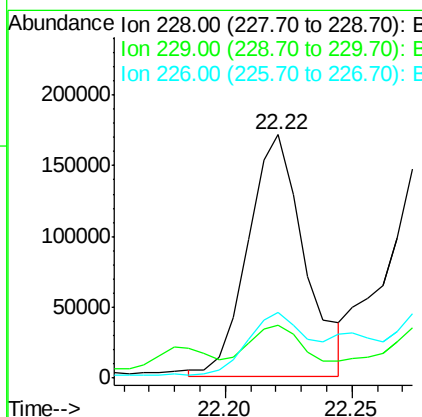
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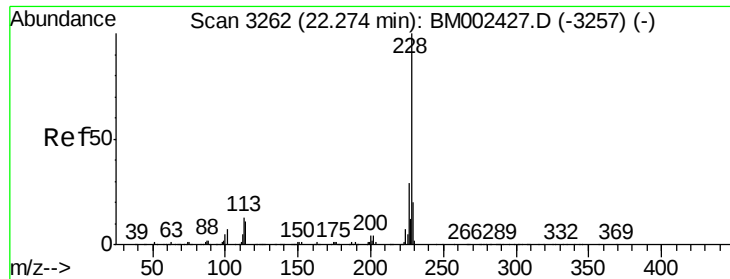
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 8/17/2015 2:47:39 PM



#20  
 Benzo(a)anthracene  
 Concen: 8.95 ng/ul  
 RT: 22.22 min Scan# 3253  
 Delta R.T. 0.01 min  
 Lab File: BM002442.D  
 Acq: 16 Aug 2015 01:42

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 265698 |       |       |
| 229     | 22.0  | 15.8   | 23.6  |       |
| 226     | 26.7  | 21.1   | 31.7  |       |





#21

Chrysene

Concen: 10.07 ng/ul m

RT: 22.28 min Scan# 3263

Delta R.T. 0.01 min

Lab File: BM002442.D

Acq: 16 Aug 2015 01:42

Instrument :

BNA\_M

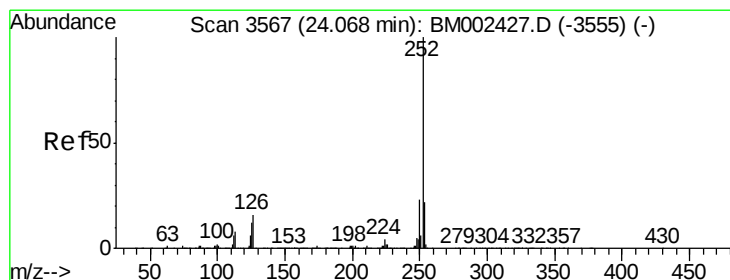
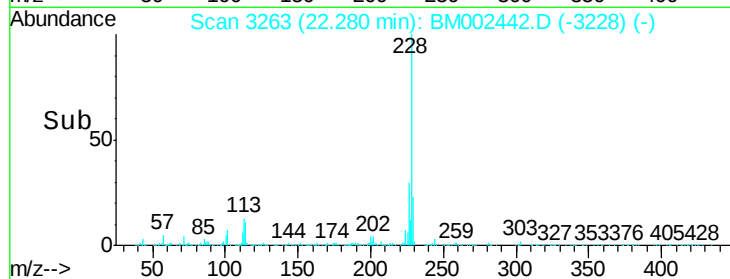
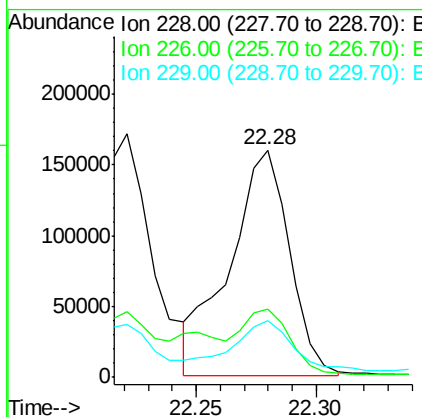
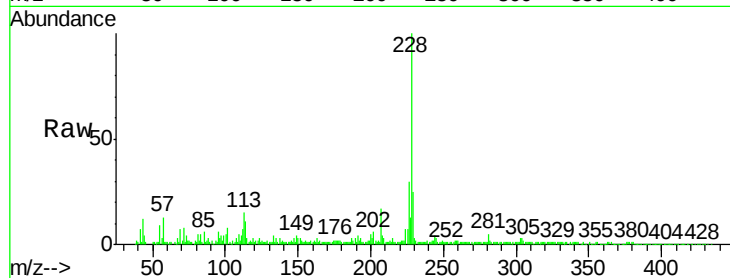
ClientSampleId :

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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.3  | 23.4  | 35.2  |
| 229     | 24.8  | 15.7  | 23.5  |

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#23

Benzo(b)fluoranthene

Concen: 14.12 ng/ul

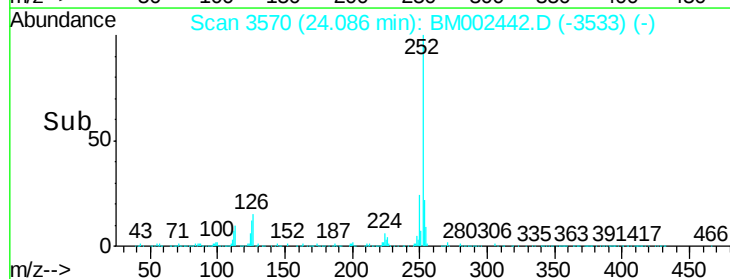
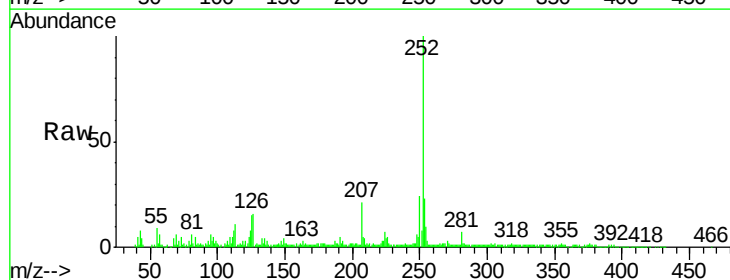
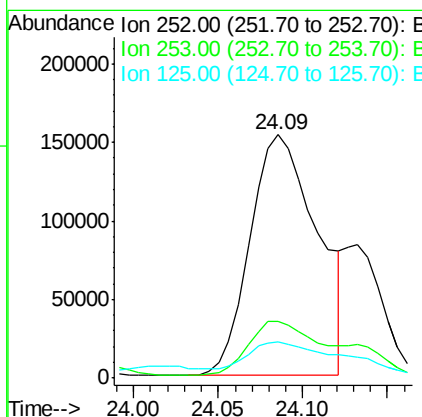
RT: 24.09 min Scan# 3570

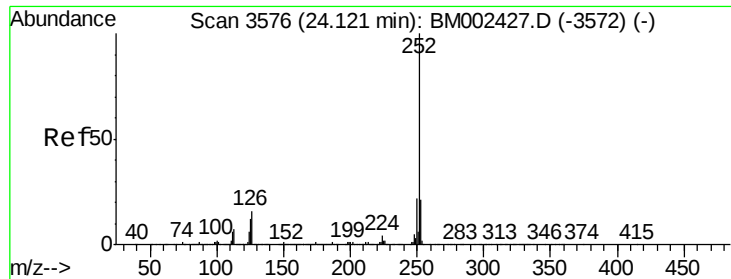
Delta R.T. 0.02 min

Lab File: BM002442.D

Acq: 16 Aug 2015 01:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 17.4  | 26.0  |
| 125     | 14.8  | 10.0  | 15.0  |





#24

Benzo(k)fluoranthene

Concen: 4.53 ng/ul m

RT: 24.13 min Scan# 3578

Delta R.T. 0.01 min

Lab File: BM002442.D

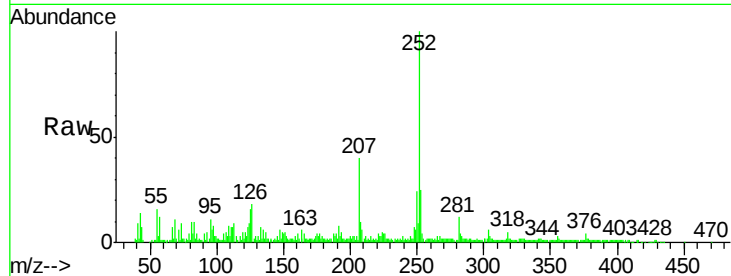
Acq: 16 Aug 2015 01:42

Instrument :

BNA\_M

ClientSampleId :

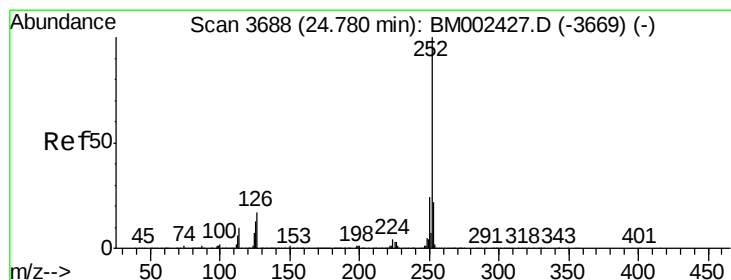
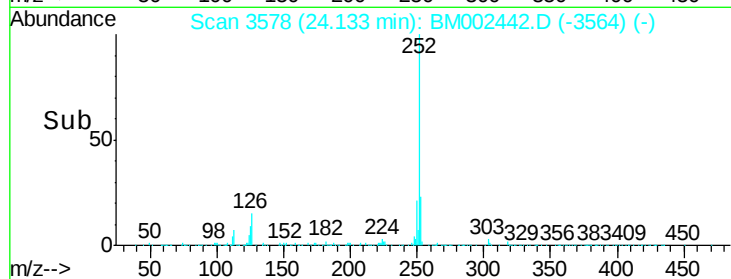
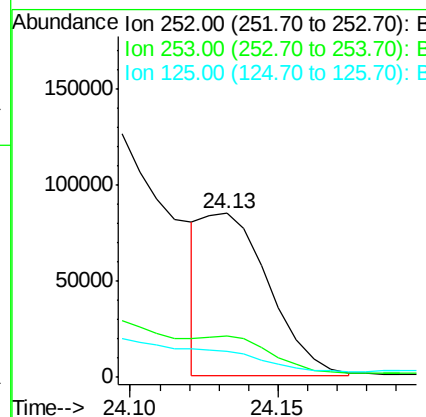
D9D95



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.0  | 17.8  | 26.6  |
| 125     | 15.7  | 9.8   | 14.8  |

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#26

Benzo(a)pyrene

Concen: 9.49 ng/ul

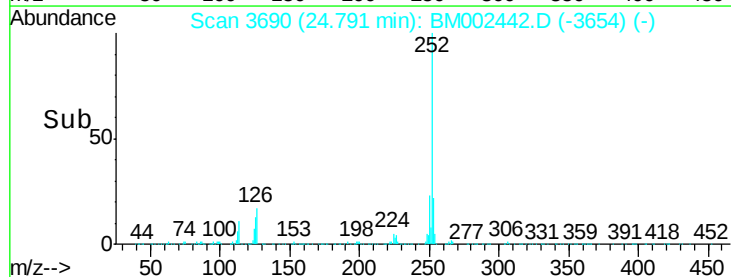
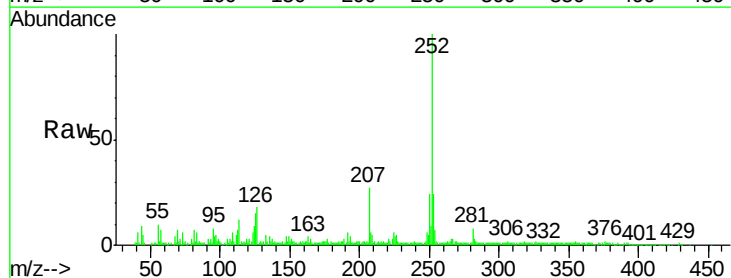
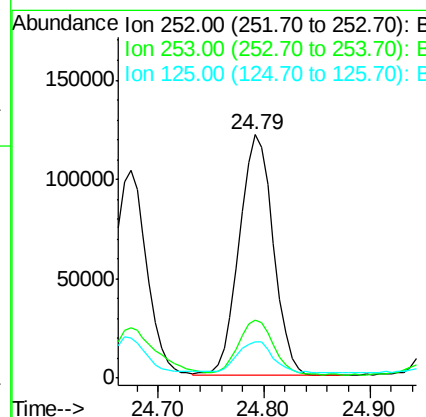
RT: 24.79 min Scan# 3690

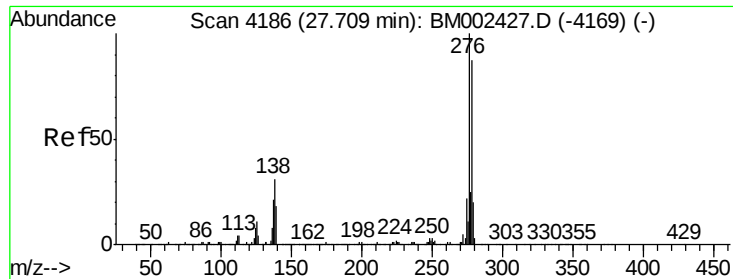
Delta R.T. 0.01 min

Lab File: BM002442.D

Acq: 16 Aug 2015 01:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 17.6  | 26.4  |
| 125     | 15.1  | 10.7  | 16.1  |





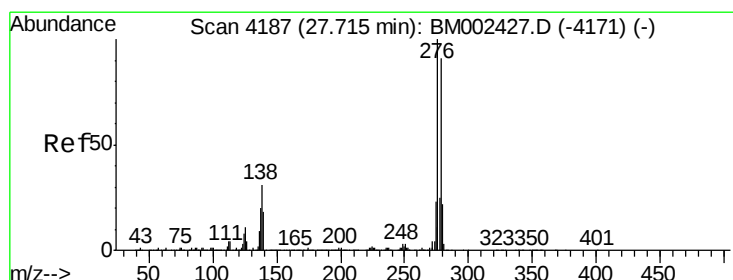
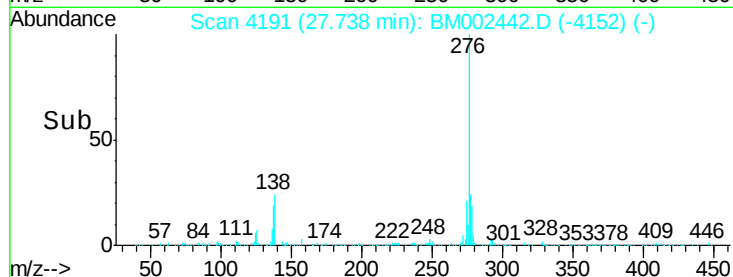
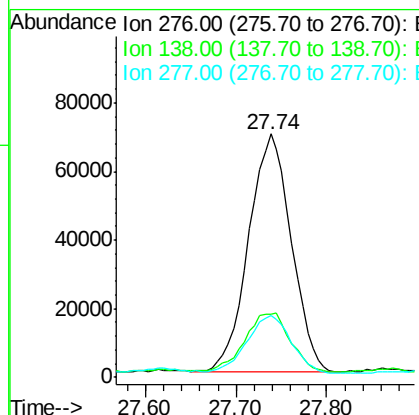
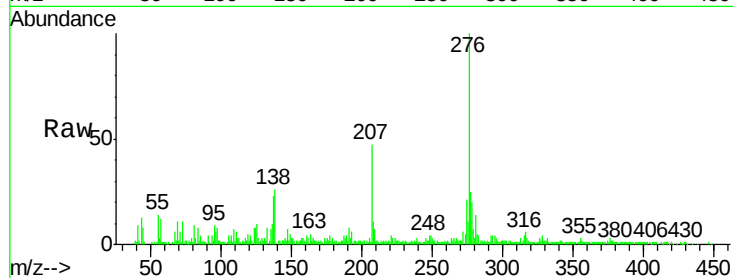
#27  
 Indeno(1,2,3-cd)pyrene  
 Concen: 6.90 ng/ul  
 RT: 27.74 min Scan# 4191  
 Delta R.T. 0.03 min  
 Lab File: BM002442.D  
 Acq: 16 Aug 2015 01:42

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9D95

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 276     | 100   | 227915 |       |       |
| 138     | 26.0  | 25.3   | 37.9  |       |
| 277     | 25.4  | 20.2   | 30.2  |       |

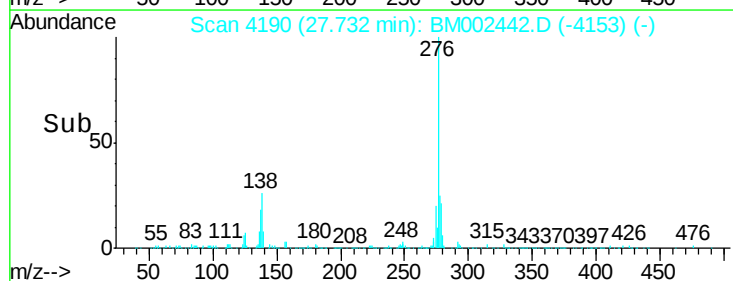
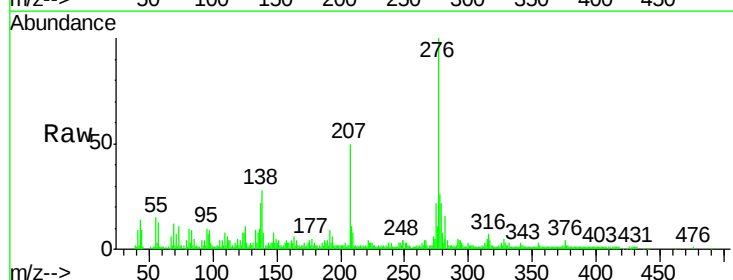
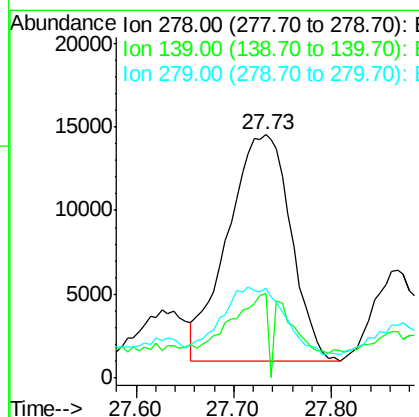
Manual Integrations  
 APPROVED

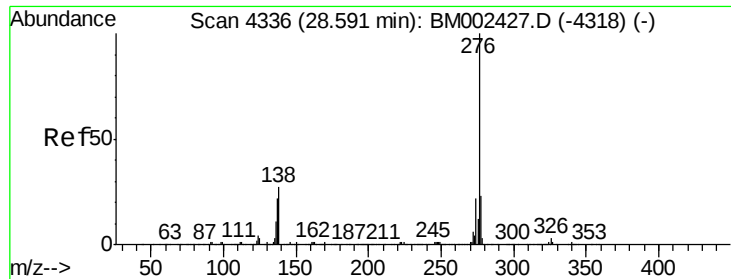
MMDadoda  
 8/17/2015 2:47:39 PM



#28  
 Dibenzo(a,h)anthracene  
 Concen: 2.20 ng/ul  
 RT: 27.73 min Scan# 4190  
 Delta R.T. 0.02 min  
 Lab File: BM002442.D  
 Acq: 16 Aug 2015 01:42

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 278     | 100   | 60781 |       |       |
| 139     | 34.9  | 16.5  | 24.7# |       |
| 279     | 37.1  | 18.8  | 28.2# |       |





#29

Benzo(g,h,i)perylene

Concen: 7.42 ng/ul

RT: 28.62 min Scan# 4341

Delta R.T. 0.03 min

Lab File: BM002442.D

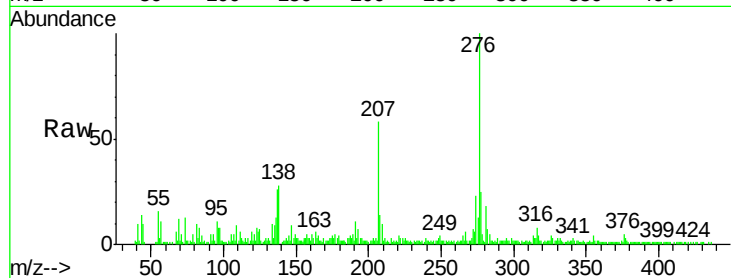
Acq: 16 Aug 2015 01:42

Instrument :

BNA\_M

ClientSampleId :

D9D95



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 27.8  | 21.0  | 31.6  |
| 277     | 25.2  | 19.2  | 28.8  |

Manual Integrations  
APPROVED

MMDadoda  
8/17/2015 2:47:39 PM

