

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121615\  
 Data File : BM003586.D  
 Acq On : 16 Dec 2015 20:18  
 Operator : UM/IZ  
 Sample : G4767-10  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9N32

Manual Integrations  
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 12/17/2015 5:36:10 PM

Quant Time: Dec 17 07:51:48 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM121515.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 17 02:56:38 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|--------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.71  | 152  | 3925     | 0.40  | ng/ul  | 0.00      |
| 4) Naphthalene-d8           | 10.50 | 136  | 16143    | 0.40  | ng/ul  | 0.00      |
| 8) Acenaphthene-d10         | 14.37 | 164  | 8986     | 0.40  | ng/ul  | 0.00      |
| 12) Phenanthrene-d10        | 17.11 | 188  | 18007m   | 0.40  | ng/ul  | 0.00      |
| 18) Chrysene-d12            | 21.31 | 240  | 15452    | 0.40  | ng/ul  | 0.00      |
| 22) Perylene-d12            | 23.56 | 264  | 18027m   | 0.40  | ng/ul  | 0.00      |
| System Monitoring Compounds |       |      |          |       |        |           |
| 2) 1,4-Dioxane-d8           | 3.17  | 96   | 18324    | 10.92 | ng/uL  | 0.00      |
| 6) 2-Methylnaphthalene-d10  | 12.09 | 152  | 5417     | 0.28  | ng/ul  | -0.01     |
| 16) Fluoranthene-d10        | 19.15 | 212  | 9983     | 0.26  | ng/ul  | 0.00      |
| Target Compounds            |       |      |          |       |        |           |
| 5) Naphthalene              | 10.55 | 128  | 122851   | 3.38  | ng/ul  | Ovalue 99 |
| 7) 2-Methylnaphthalene      | 12.16 | 142  | 9362     | 0.38  | ng/ul  | 99        |
| 9) Acenaphthylene           | 14.07 | 152  | 951      | 0.03  | ng/ul# | 80        |
| 10) Acenaphthene            | 14.42 | 153  | 2038     | 0.07  | ng/ul  | 89        |
| 11) Fluorene                | 15.41 | 166  | 3174     | 0.10  | ng/ul  | 85        |
| 14) Phenanthrene            | 17.14 | 178  | 17291m   | 0.37  | ng/ul  |           |
| 17) Fluoranthene            | 19.17 | 202  | 4685     | 0.09  | ng/ul  | 95        |
| 20) Benzo(a)anthracene      | 21.29 | 228  | 961      | 0.03  | ng/ul# | 77        |
| 21) Chrysene                | 21.34 | 228  | 1169     | 0.03  | ng/ul# | 85        |

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

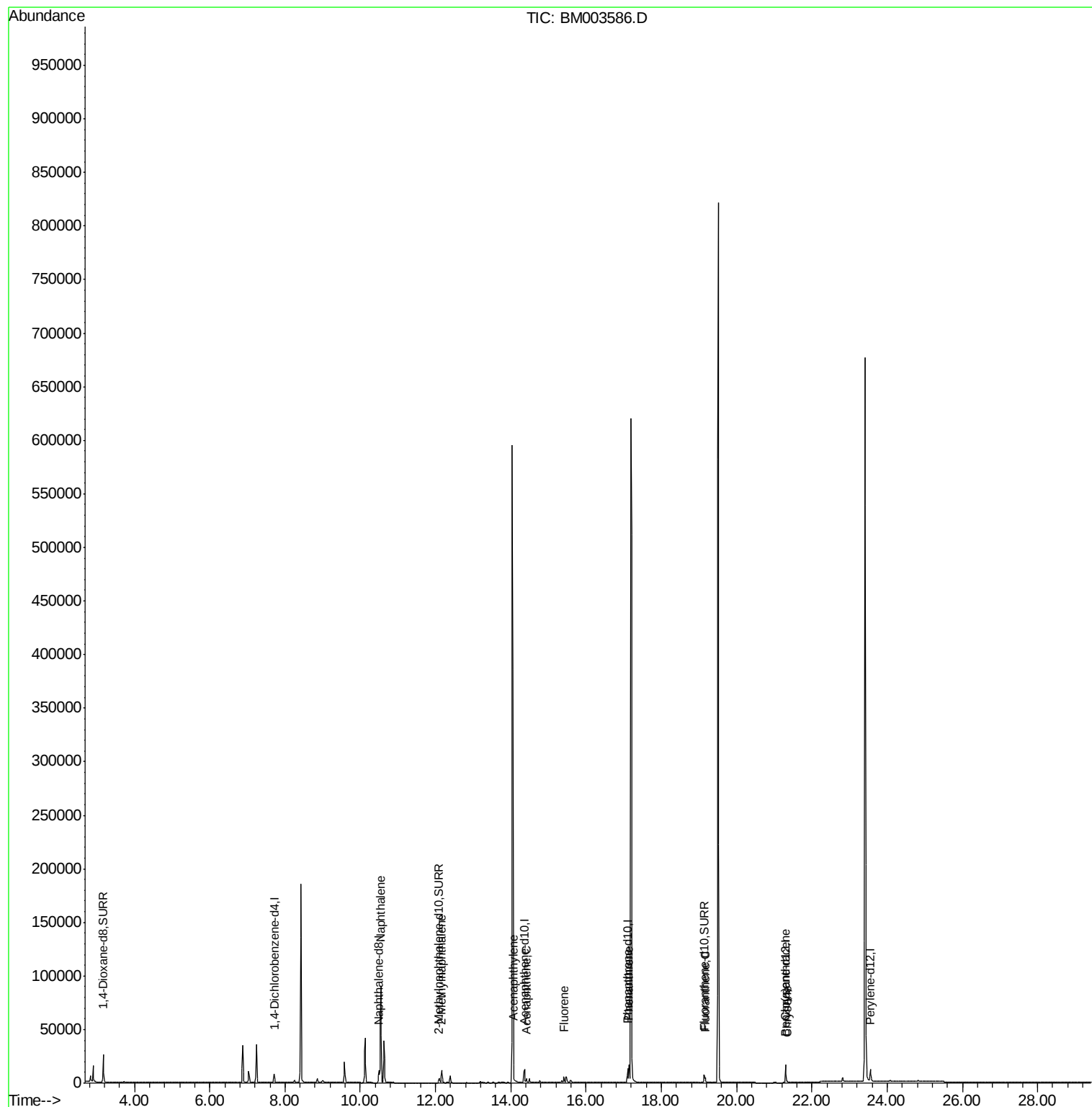
Data Path : Z:\HPCHEM1\BNA M\DATA\BM121615\  
Data File : BM003586.D  
Acq On : 16 Dec 2015 20:18  
Operator : UM/IZ  
Sample : G4767-10  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

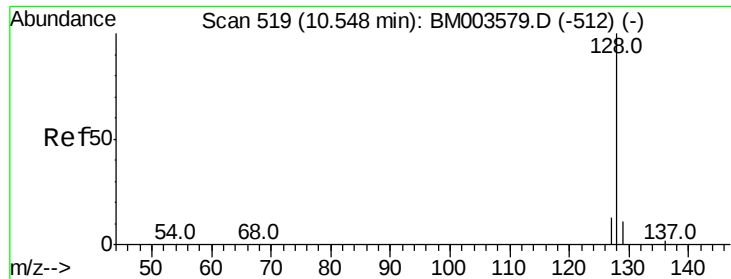
Instrument :  
BNA\_M  
ClientSampleId :  
D9N32

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Quant Time: Dec 17 07:51:48 2015  
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QLast Update : Thu Dec 17 02:56:38 2015  
Response via : Initial Calibration





#5

Naphthalene

Concen: 3.38 ng/ul

RT: 10.55 min Scan# 519

Delta R.T. 0.00 min

Lab File: BM003586.D

Acq: 16 Dec 2015 20:18

Instrument :

BNA\_M

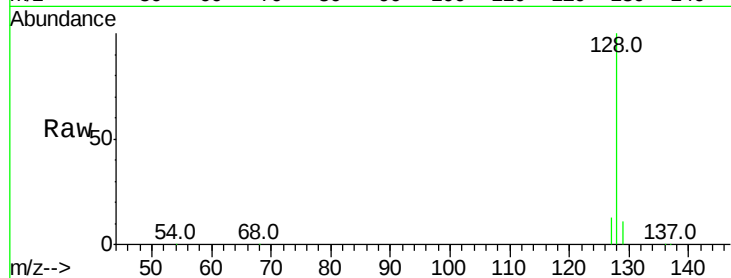
ClientSampleId :

D9N32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 128   | Resp: | 122851 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 129       | 11.0  | 9.0   | 13.6   |
| 127       | 12.6  | 9.6   | 14.4   |

Manual Integrations  
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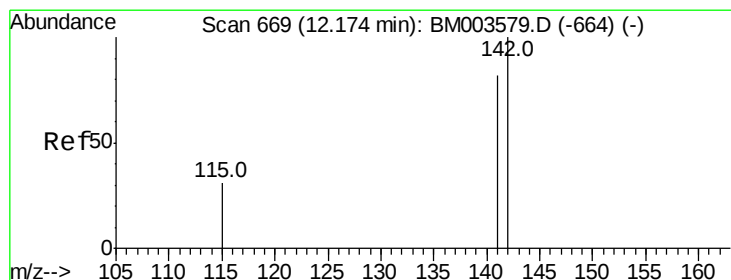
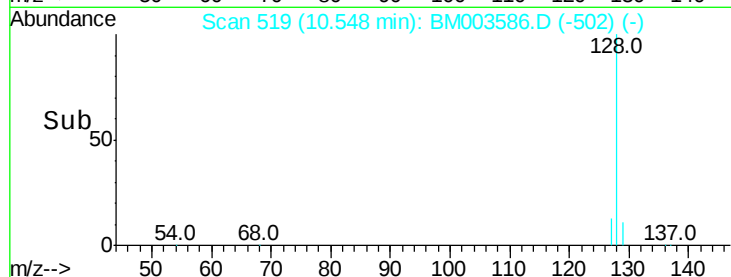
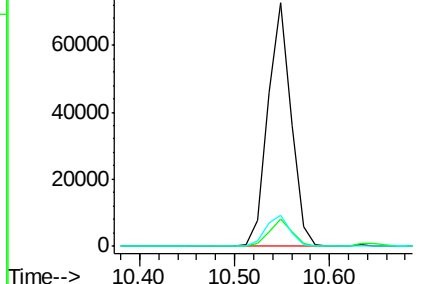
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Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#7

2-Methylnaphthalene

Concen: 0.38 ng/ul

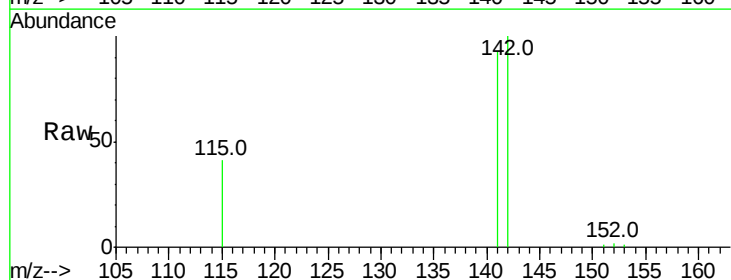
RT: 12.16 min Scan# 668

Delta R.T. -0.01 min

Lab File: BM003586.D

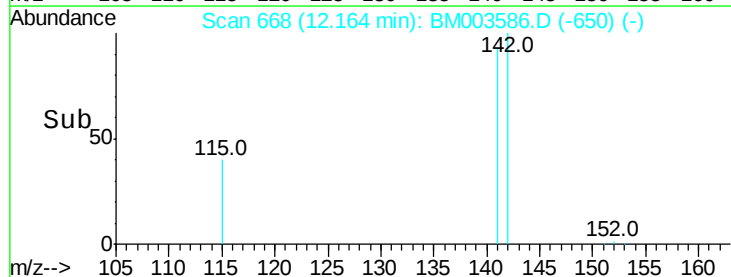
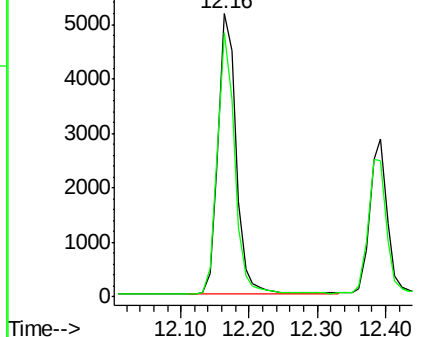
Acq: 16 Dec 2015 20:18

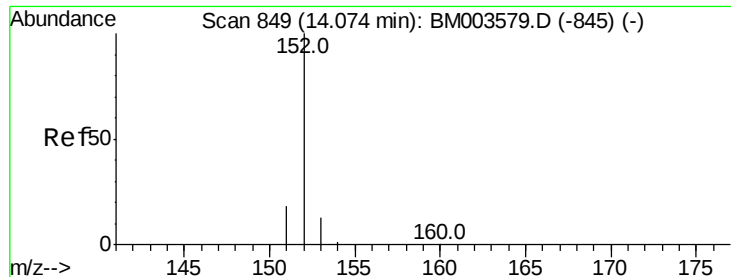
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 9362  |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 88.9  | 70.3  | 105.5 |



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#9

Acenaphthylene

Concen: 0.03 ng/ul

RT: 14.07 min Scan# 849

Delta R.T. 0.00 min

Lab File: BM003586.D

Acq: 16 Dec 2015 20:18

Instrument :

BNA\_M

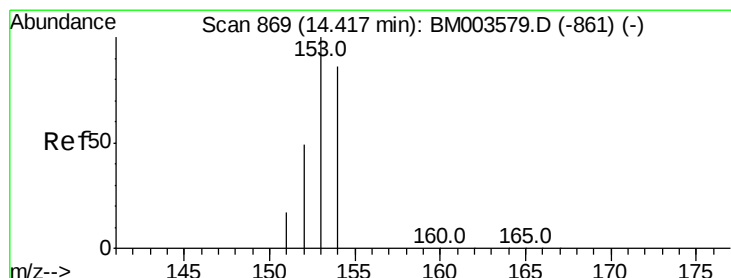
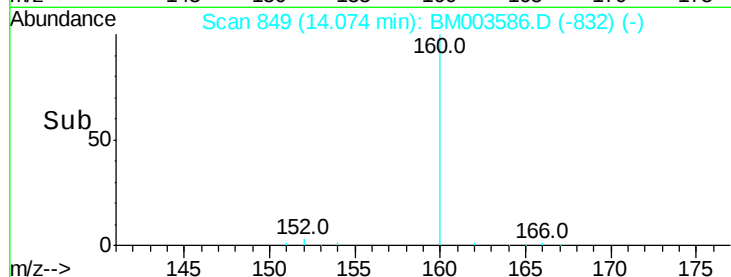
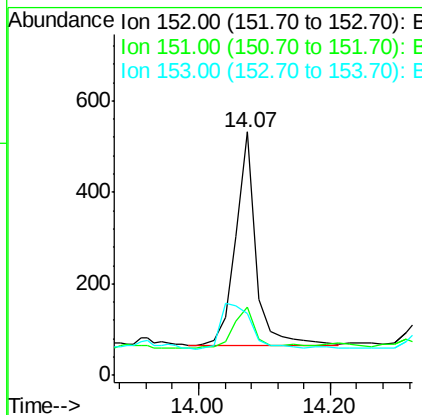
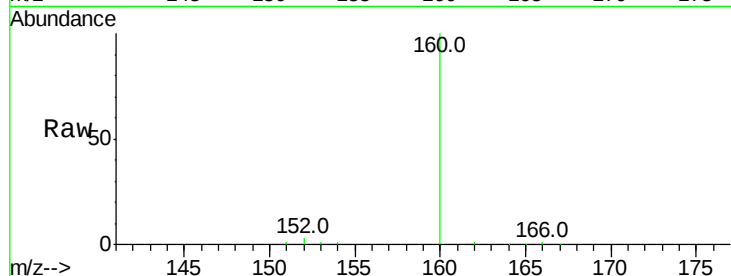
ClientSampleId :

D9N32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 951   |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 27.8  | 17.6  | 26.4# |
| 153       | 25.4  | 9.7   | 14.5# |

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#10

Acenaphthene

Concen: 0.07 ng/ul

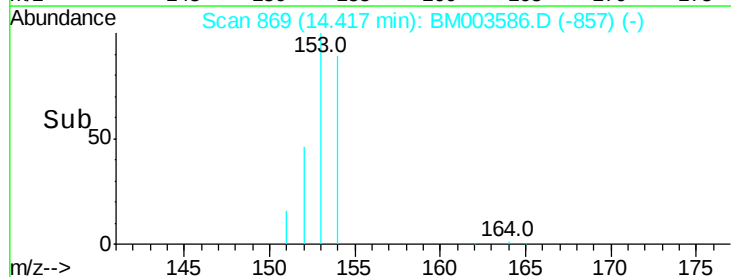
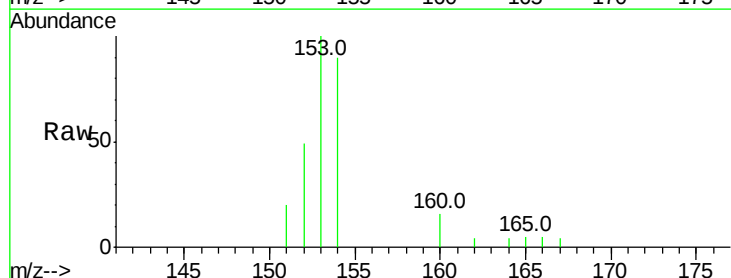
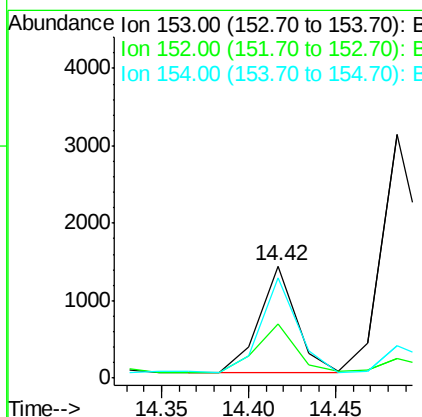
RT: 14.42 min Scan# 869

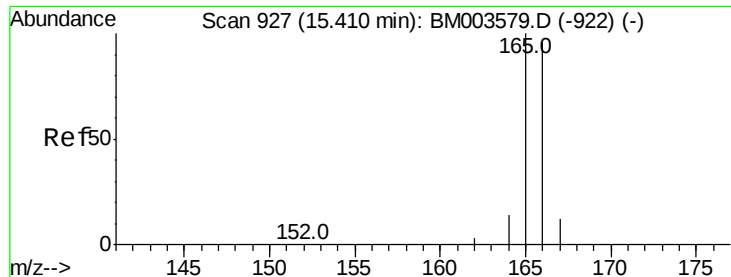
Delta R.T. 0.00 min

Lab File: BM003586.D

Acq: 16 Dec 2015 20:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 2038  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 49.0  | 33.9  | 50.9  |
| 154       | 89.8  | 80.6  | 121.0 |





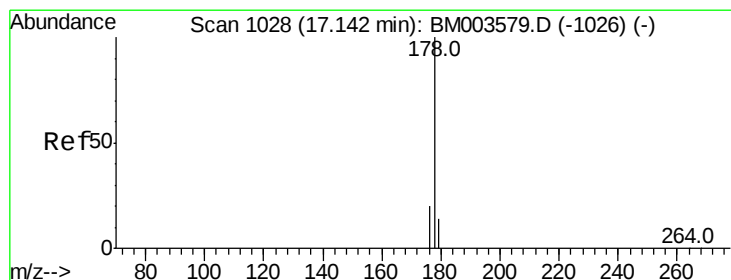
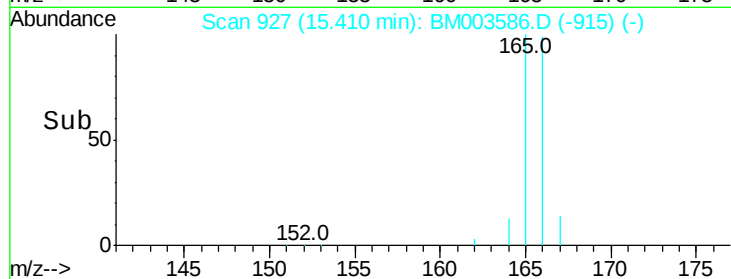
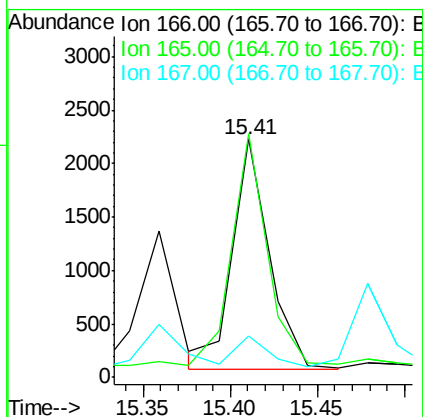
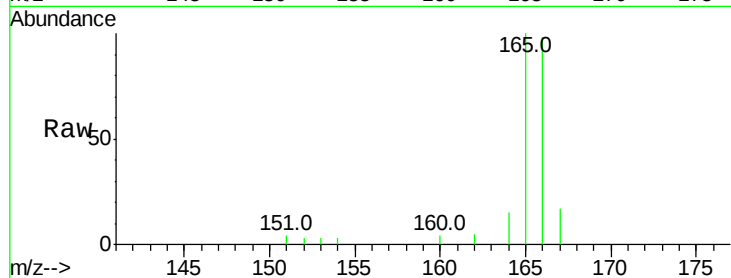
#11  
**Fluorene**  
 Concen: 0.10 ng/ul  
 RT: 15.41 min Scan# 927  
 Delta R.T. 0.00 min  
 Lab File: BM003586.D  
 Acq: 16 Dec 2015 20:18

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9N32

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 102.2 | 69.6  | 104.4 |
| 167     | 17.3  | 11.9  | 17.9  |

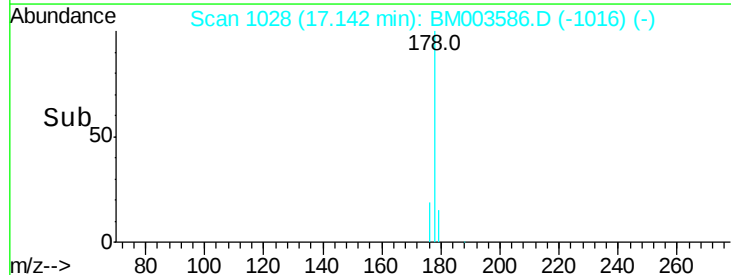
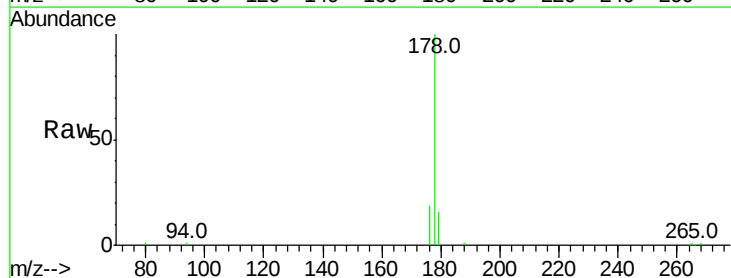
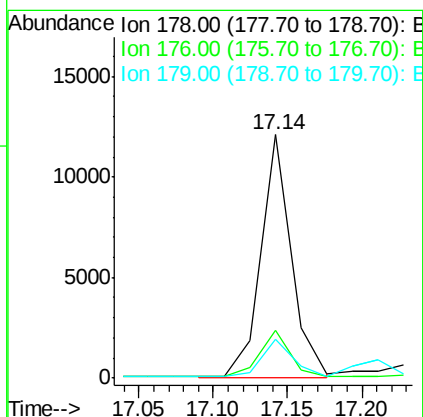
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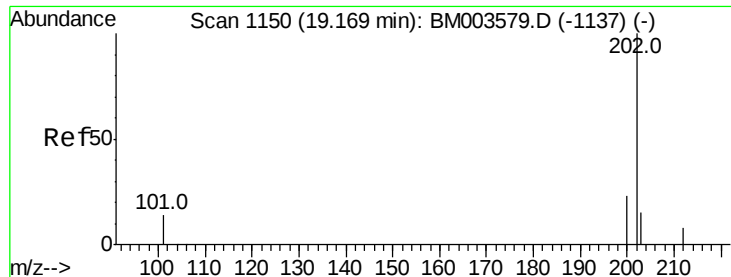
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#14  
**Phenanthrene**  
 Concen: 0.37 ng/ul m  
 RT: 17.14 min Scan# 1028  
 Delta R.T. 0.00 min  
 Lab File: BM003586.D  
 Acq: 16 Dec 2015 20:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.5  | 13.0  | 19.4# |
| 179     | 15.7  | 14.2  | 21.2  |





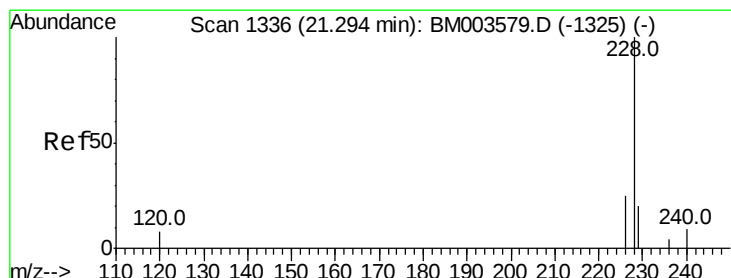
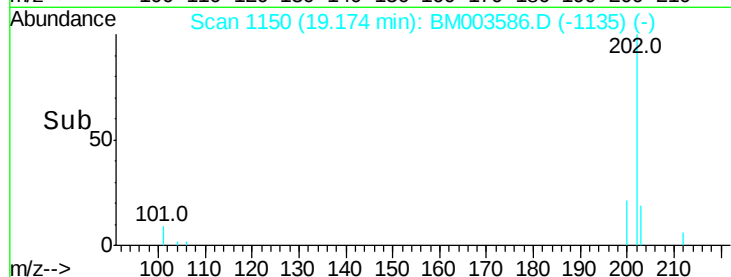
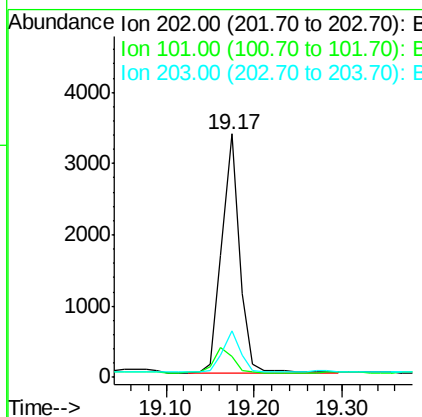
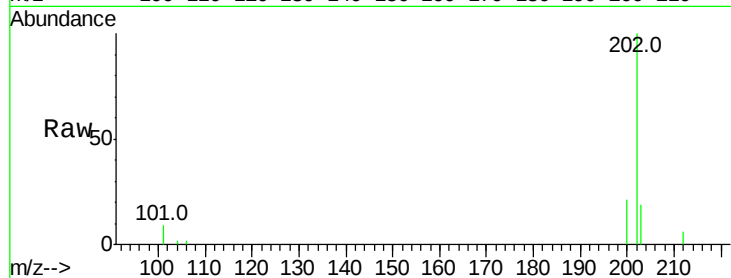
#17  
Fluoranthene  
Concen: 0.09 ng/ul  
RT: 19.17 min Scan# 1150  
Delta R.T. 0.01 min  
Lab File: BM003586.D  
Acq: 16 Dec 2015 20:18

Instrument :  
BNA\_M  
ClientSampleId :  
D9N32

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 202     | 100   | 4685 |       |       |
| 101     | 8.8   |      | 0.0   | 29.6  |
| 203     | 19.3  |      | 0.0   | 36.3  |

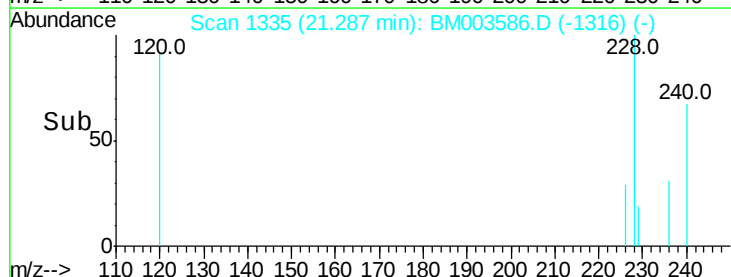
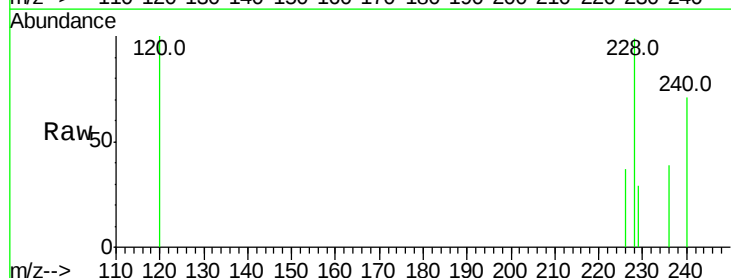
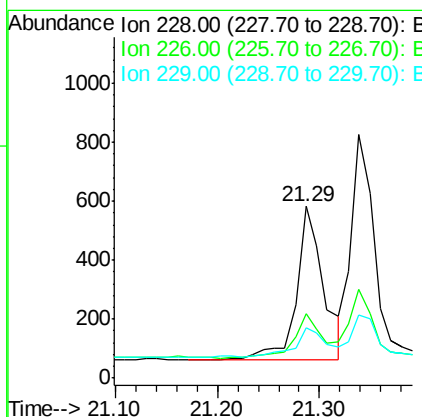
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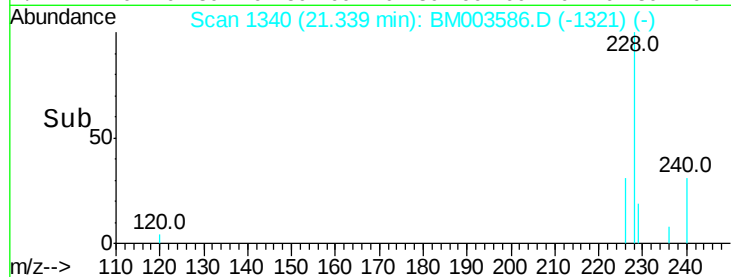
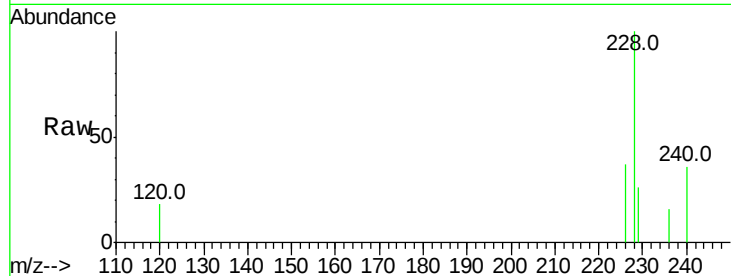
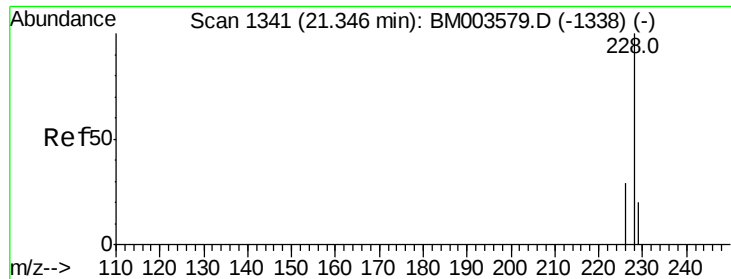
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#20  
Benzo(a)anthracene  
Concen: 0.03 ng/ul  
RT: 21.29 min Scan# 1335  
Delta R.T. -0.01 min  
Lab File: BM003586.D  
Acq: 16 Dec 2015 20:18

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 228     | 100   | 961  |       |       |
| 226     | 37.6  |      | 18.8  | 28.2# |
| 229     | 29.0  |      | 17.1  | 25.7# |





#21

Chrysene

Concen: 0.03 ng/ul

RT: 21.34 min Scan# 1340

Delta R.T. -0.01 min

Lab File: BM003586.D

Acq: 16 Dec 2015 20:18

Instrument :

BNA\_M

ClientSampleId :

D9N32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 1169  |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 36.6  | 21.2  | 31.8# |
| 229       | 25.8  | 17.0  | 25.6# |

Manual Integrations  
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