

Data Path : Z:\HPCHEM1\BNA M\DATA\BM111115\  
 Data File : BM003102.D  
 Acq On : 12 Nov 2015 02:37  
 Operator : UM/IZ  
 Sample : G4322-15  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4HS6

Manual Integrations  
 APPROVED

Mmdadoda  
 11/13/2015 6:31:23 PM

Quant Time: Nov 13 12:42:46 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM103015.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Nov 13 11:02:42 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.75  | 152  | 143839   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.55 | 136  | 679536   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.40 | 164  | 409205   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.14 | 188  | 882951   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.33 | 240  | 792578   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.59 | 264  | 726695   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.21  | 96  | 6625   | 2.17  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.91  | 99  | 139642 | 12.28 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.09  | 67  | 85924  | 12.92 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.28  | 132 | 123521 | 12.82 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.45  | 113 | 120596 | 13.15 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.90  | 128 | 62353  | 15.05 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.63  | 143 | 68927  | 16.42 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.16 | 165 | 123783 | 13.15 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.67 | 131 | 115131 | 9.45  | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.80 | 166 | 446573 | 14.51 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.09 | 160 | 511420 | 13.11 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.59 | 143 | 54118  | 10.43 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.39 | 176 | 383628 | 14.41 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.50 | 200 | 55176  | 13.49 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.24 | 188 | 540246 | 13.80 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.54 | 212 | 543928 | 13.94 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.44 | 264 | 474995 | 13.75 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |        |      |        | Ovalue |
|----------------------------|-------|-----|--------|------|--------|--------|
| 45) Dimethylphthalate      | 13.85 | 163 | 239451 | 7.63 | ng/ul  | 99     |
| 70) Phenanthrene           | 17.18 | 178 | 165813 | 3.32 | ng/ul  | 99     |
| 77) Fluoranthene           | 19.20 | 202 | 224268 | 4.44 | ng/ul# | 94     |
| 80) Pyrene                 | 19.57 | 202 | 188158 | 3.63 | ng/ul# | 92     |
| 83) Benzo(a)anthracene     | 21.32 | 228 | 79418  | 1.82 | ng/ul  | 97     |
| 85) Chrysene               | 21.37 | 228 | 85154  | 1.98 | ng/ul  | 99     |
| 88) Benzo(b)fluoranthene   | 22.91 | 252 | 96255  | 2.30 | ng/ul  | 97     |
| 91) Benzo(a)pyrene         | 23.49 | 252 | 65881m | 1.66 | ng/ul  |        |
| 92) Indeno(1,2,3-cd)pyrene | 25.87 | 276 | 45093  | 1.03 | ng/ul# | 89     |

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

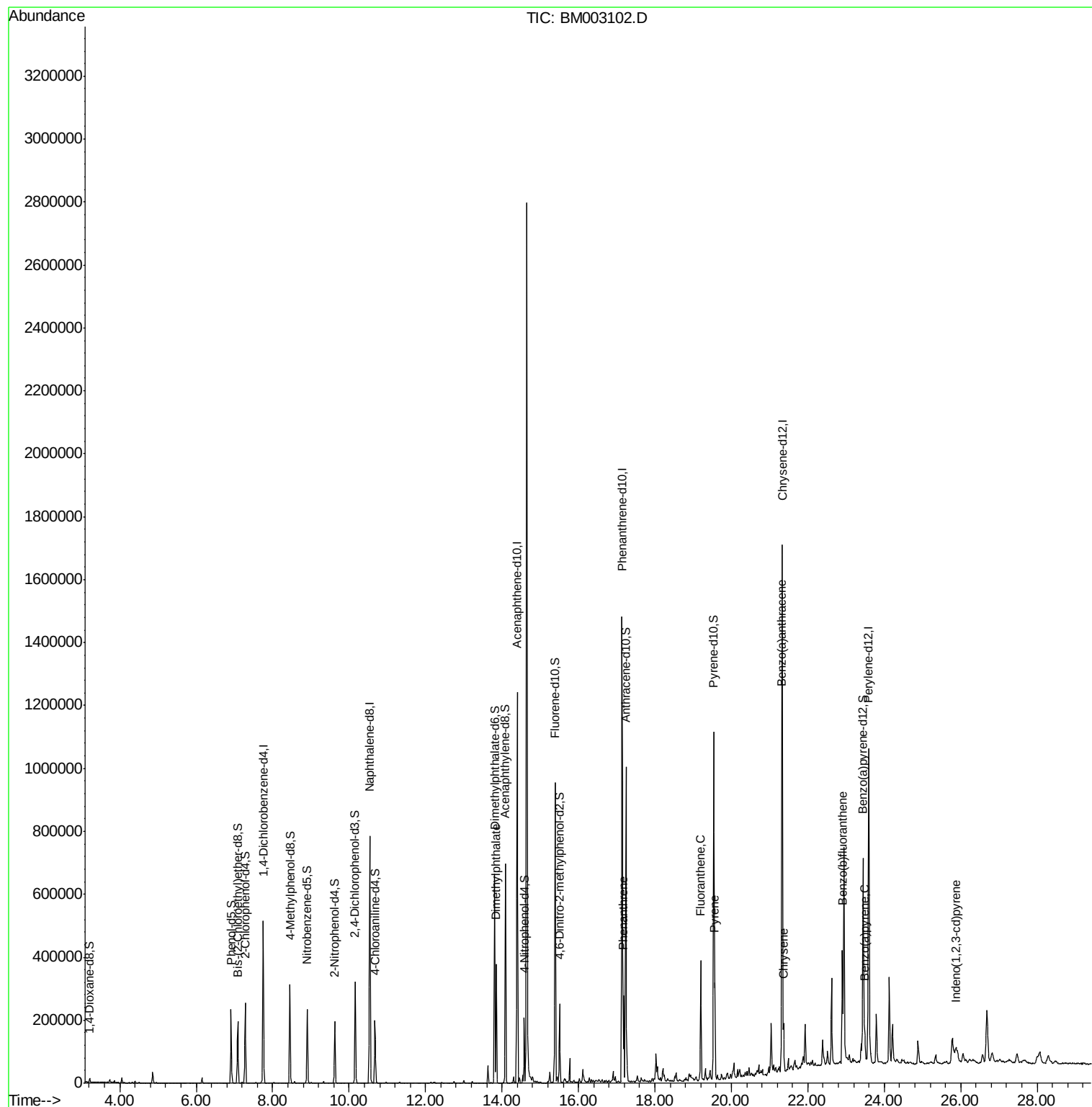
Data Path : Z:\HPCHEM1\BNA M\DATA\BM111115\  
Data File : BM003102.D  
Acq On : 12 Nov 2015 02:37  
Operator : UM/IZ  
Sample : G4322-15  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

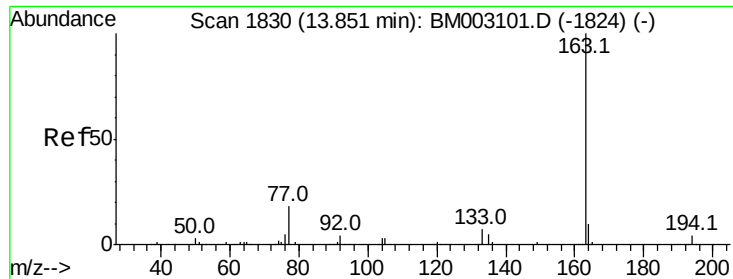
Instrument :  
BNA\_M  
ClientSampleId :  
A4HS6

Manual Integrations  
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Quant Time: Nov 13 12:42:46 2015  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM103015.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Nov 13 11:02:42 2015  
Response via : Initial Calibration





#45

Dimethylphthalate

Concen: 7.63 ng/ul

RT: 13.85 min Scan# 1830

Delta R.T. -0.01 min

Lab File: BM003102.D

Acq: 12 Nov 2015 02:37

Instrument :

BNA\_M

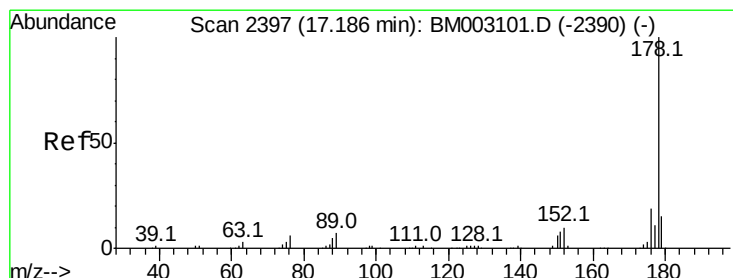
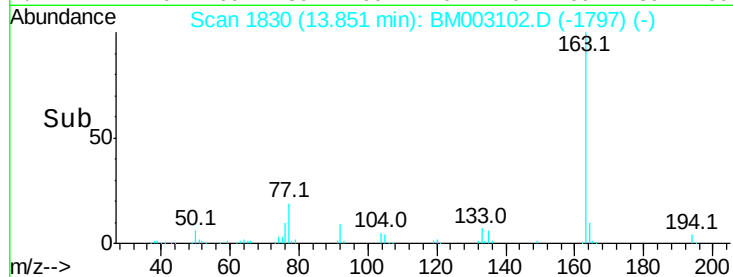
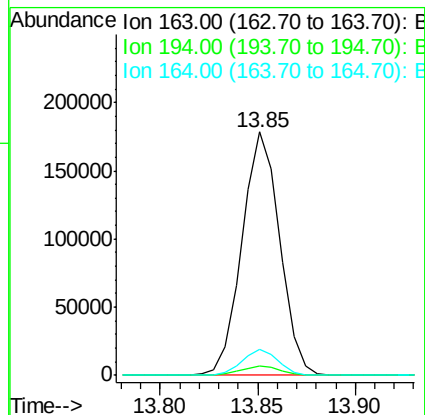
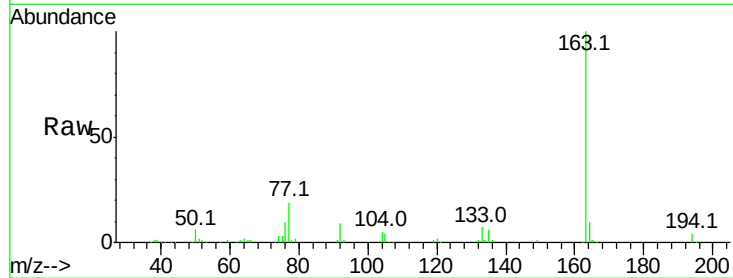
ClientSampleId :

A4HS6

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 163   | Resp: | 239451 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 3.9   | 3.2   | 4.8    |
| 164       | 10.5  | 7.8   | 11.8   |

Manual Integrations  
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#70

Phenanthrene

Concen: 3.32 ng/ul

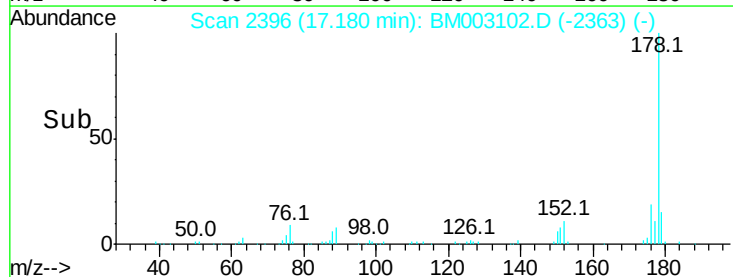
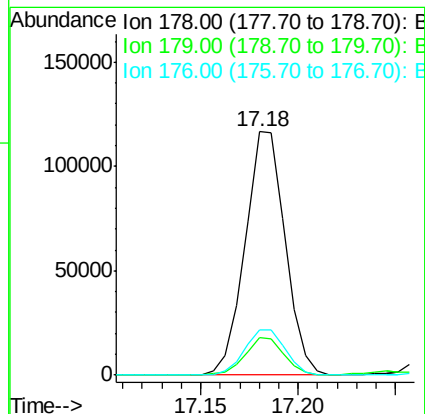
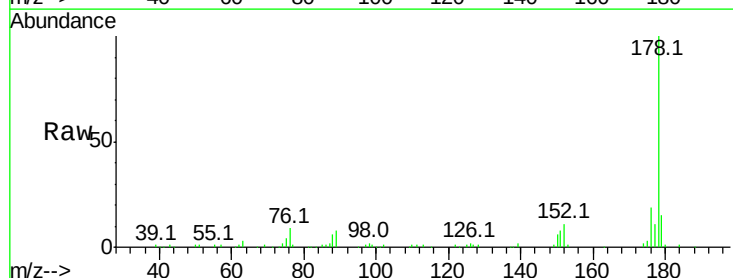
RT: 17.18 min Scan# 2396

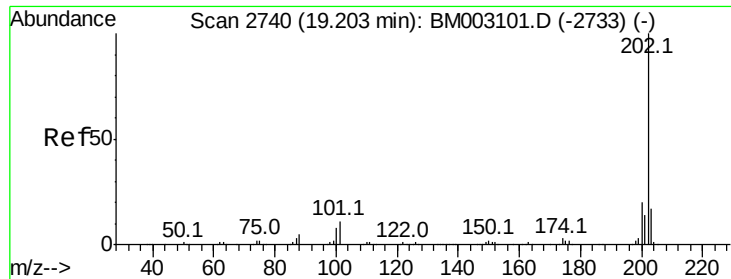
Delta R.T. -0.01 min

Lab File: BM003102.D

Acq: 12 Nov 2015 02:37

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 165813 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.2  | 12.2  | 18.4   |
| 176       | 18.8  | 14.7  | 22.1   |





#77

Fluoranthene

Concen: 4.44 ng/ul

RT: 19.20 min Scan# 2740

Delta R.T. -0.00 min

Lab File: BM003102.D

Acq: 12 Nov 2015 02:37

Instrument :

BNA\_M

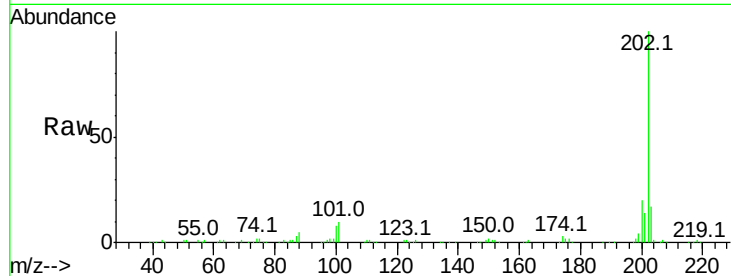
ClientSampleId :

A4HS6

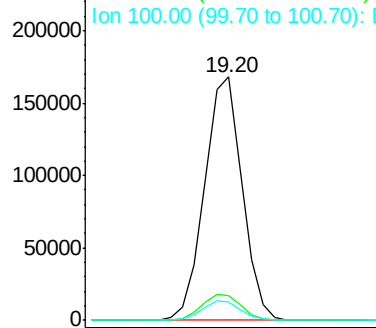
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 224268 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 10.3  | 10.4  | 15.6#  |
| 100       | 7.7   | 7.8   | 11.6#  |

Manual Integrations  
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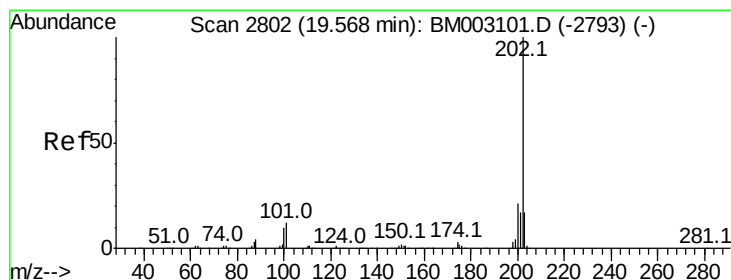
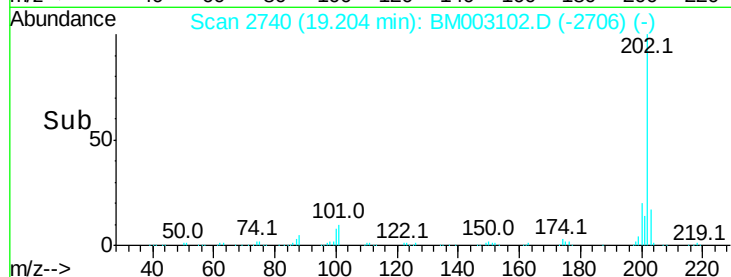
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Abundance Ion 202.00 (201.70 to 202.70): E



Time-->



#80

Pyrene

Concen: 3.63 ng/ul

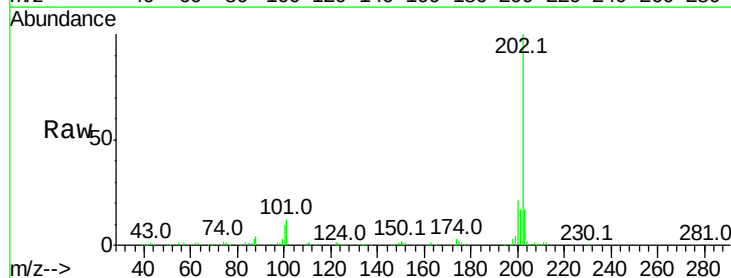
RT: 19.57 min Scan# 2802

Delta R.T. -0.00 min

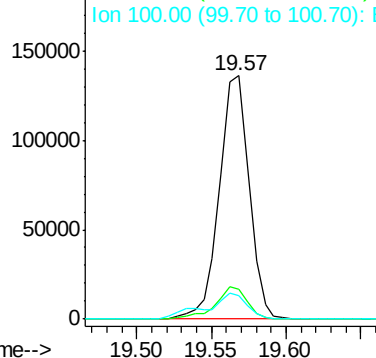
Lab File: BM003102.D

Acq: 12 Nov 2015 02:37

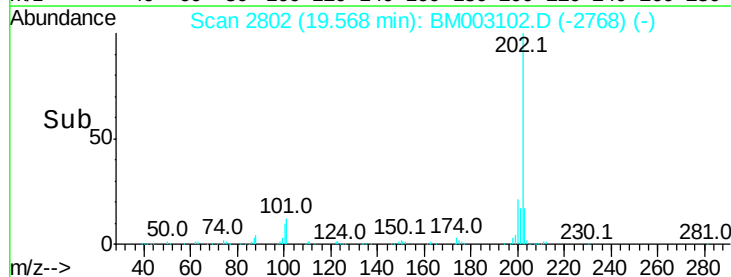
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 188158 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 12.4  | 12.6  | 18.8#  |
| 100       | 9.8   | 10.6  | 15.8#  |

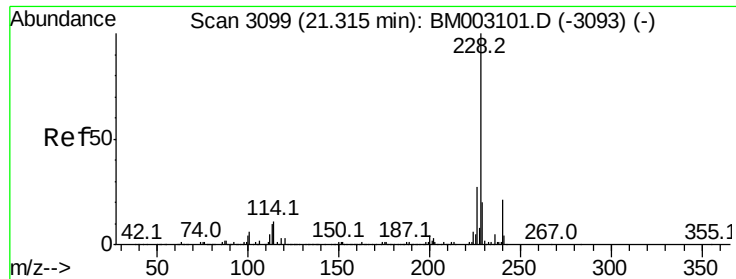


Abundance Ion 202.00 (201.70 to 202.70): E



Time-->





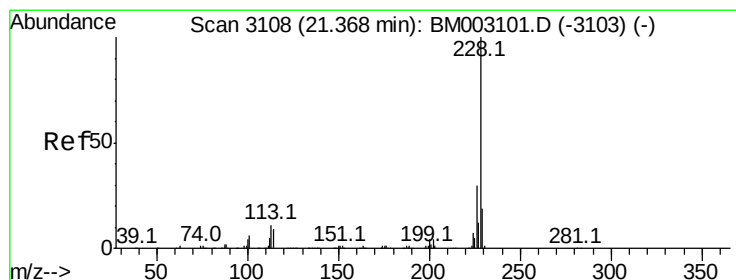
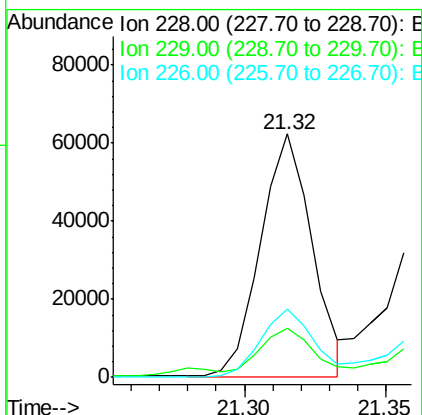
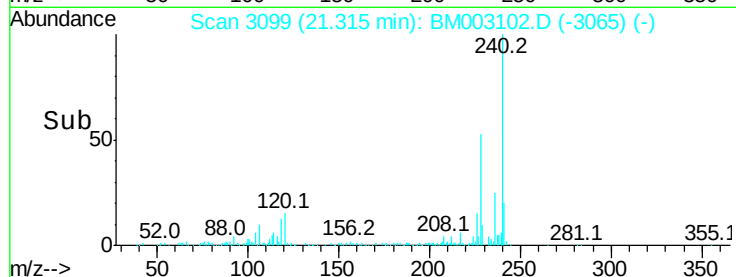
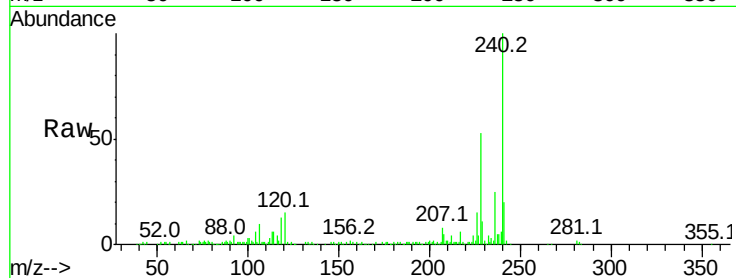
#83  
Benzo(a)anthracene  
Concen: 1.82 ng/ul  
RT: 21.32 min Scan# 3099  
Delta R.T. -0.00 min  
Lab File: BM003102.D  
Acq: 12 Nov 2015 02:37

Instrument :  
BNA\_M  
ClientSampleId :  
A4HS6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.0  | 15.6  | 23.4  |
| 226     | 28.3  | 21.0  | 31.6  |

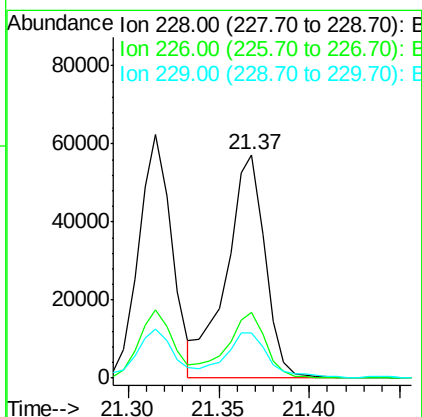
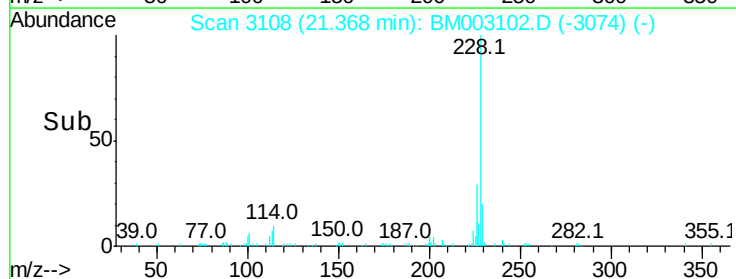
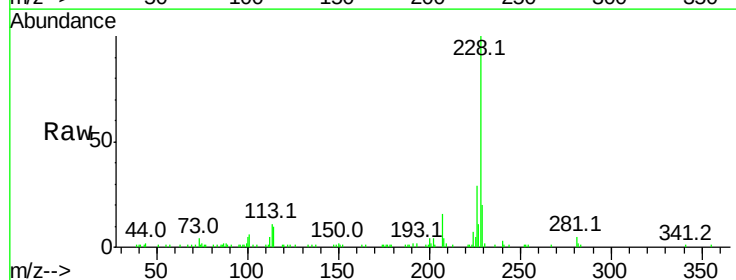
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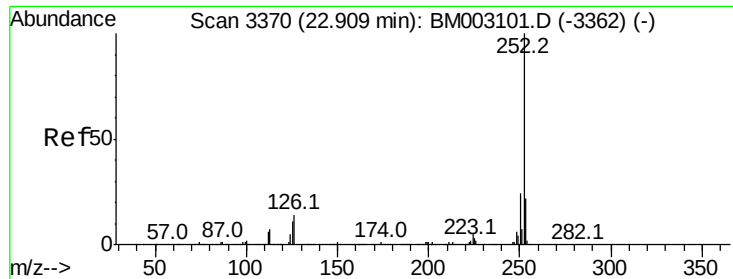
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#85  
Chrysene  
Concen: 1.98 ng/ul  
RT: 21.37 min Scan# 3108  
Delta R.T. -0.00 min  
Lab File: BM003102.D  
Acq: 12 Nov 2015 02:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.4  | 23.3  | 34.9  |
| 229     | 20.0  | 15.8  | 23.6  |





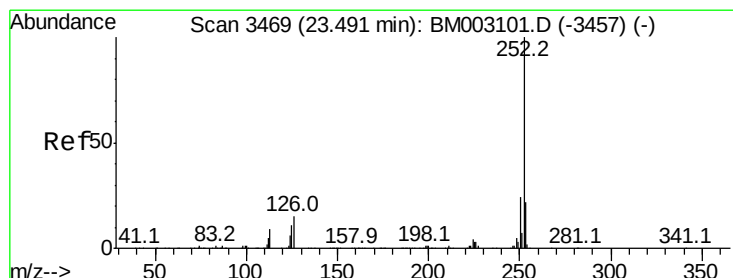
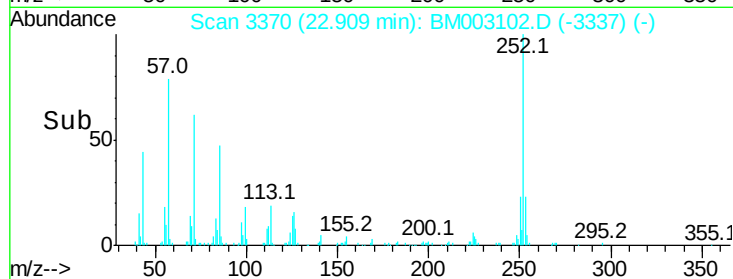
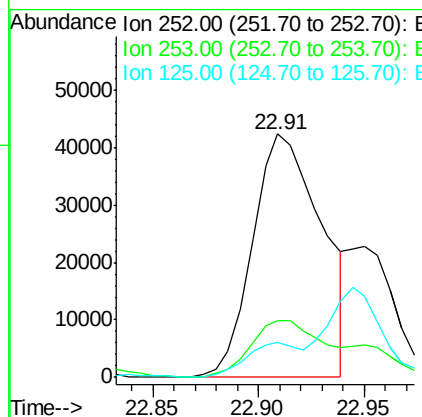
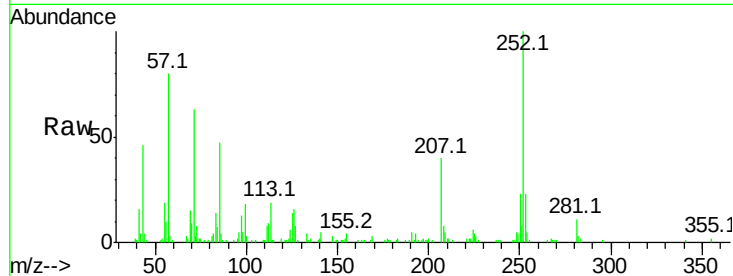
#88  
Benzo(b)fluoranthene  
Concen: 2.30 ng/ul  
RT: 22.91 min Scan# 3370  
Delta R.T. -0.01 min  
Lab File: BM003102.D  
Acq: 12 Nov 2015 02:37

Instrument :  
BNA\_M  
ClientSampled :  
A4HS6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 17.4  | 26.2  |
| 125     | 14.3  | 10.7  | 16.1  |

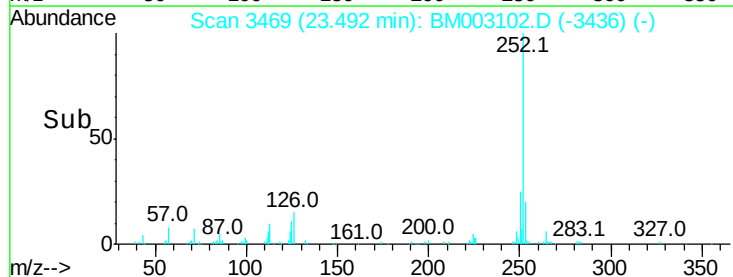
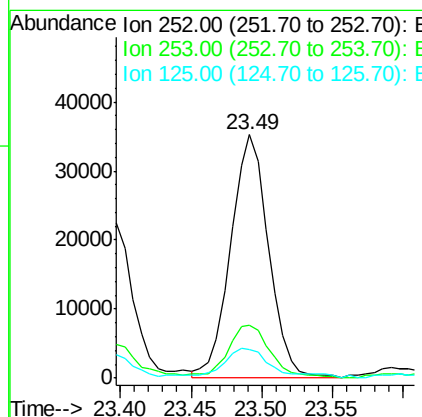
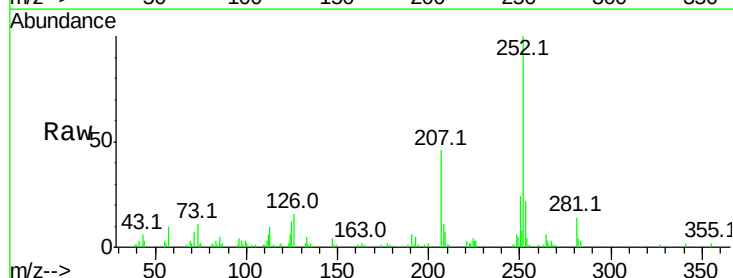
Manual Integrations  
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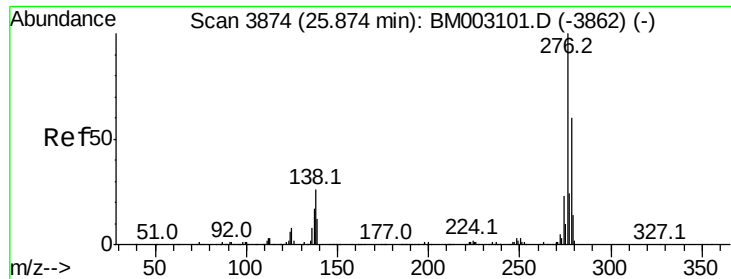
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11/13/2015 6:31:23 PM



#91  
Benzo(a)pyrene  
Concen: 1.66 ng/ul m  
RT: 23.49 min Scan# 3469  
Delta R.T. -0.01 min  
Lab File: BM003102.D  
Acq: 12 Nov 2015 02:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.9  | 17.1  | 25.7  |
| 125     | 11.5  | 11.9  | 17.9# |





#92

Indeno(1,2,3-cd)pyrene

Concen: 1.03 ng/ul

RT: 25.87 min Scan# 3874

Delta R.T. -0.01 min

Lab File: BM003102.D

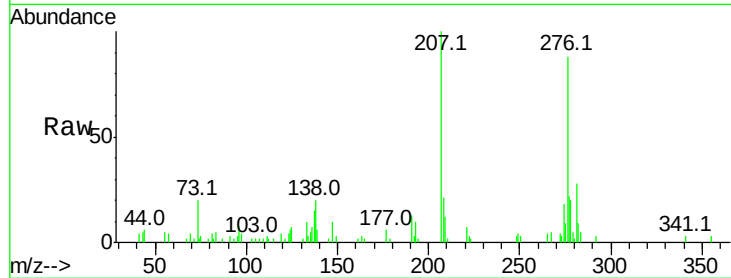
Acq: 12 Nov 2015 02:37

Instrument :

BNA\_M

ClientSampleId :

A4HS6



|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 45093 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 22.4  | 26.6  | 40.0# |
| 277       | 25.3  | 20.2  | 30.4  |

Manual Integrations  
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