

Data Path : Z:\HPCHEM1\BNA M\DATA\BM060716\  
 Data File : BM005697.D  
 Acq On : 07 Jun 2016 17:59  
 Operator : UM/SJ  
 Sample : H3411-06  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9XQ6

Manual Integrations  
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 6/8/2016 7:16:17 PM

Quant Time: Jun 08 01:47:05 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM060216.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jun 08 01:24:32 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.75  | 152  | 138329   | 20.00 | ng/ul | 0.00     |
| 7) Naphthalene-d8         | 10.55 | 136  | 687567   | 20.00 | ng/ul | 0.00     |
| 15) Acenaphthene-d10      | 14.40 | 164  | 397427   | 20.00 | ng/ul | 0.00     |
| 23) Phenanthrene-d10      | 17.14 | 188  | 867001   | 20.00 | ng/ul | 0.00     |
| 29) Chrysene-d12          | 21.33 | 240  | 750299   | 20.00 | ng/ul | 0.00     |
| 34) Perylene-d12          | 23.59 | 264  | 602657   | 20.00 | ng/ul | -0.01    |

## System Monitoring Compounds

|                                |       |     |        |       |       |       |
|--------------------------------|-------|-----|--------|-------|-------|-------|
| 2) 1,4-Dioxane-d8              | 3.20  | 96  | 3335   | 1.01  | ng/uL | 0.00  |
| 3) Phenol-d5                   | 6.93  | 99  | 150815 | 12.40 | ng/ul | 0.00  |
| 4) Bis-(2-Chloroethyl)ether-d  | 7.09  | 67  | 97833  | 13.22 | ng/ul | 0.00  |
| 5) 2-Chlorophenol-d4           | 7.29  | 132 | 127920 | 12.75 | ng/ul | 0.00  |
| 6) 4-Methylphenol-d8           | 8.47  | 113 | 83382  | 8.67  | ng/ul | 0.00  |
| 8) Nitrobenzene-d5             | 8.91  | 128 | 68224  | 12.92 | ng/ul | 0.00  |
| 9) 2-Nitrophenol-d4            | 9.63  | 143 | 75078  | 13.29 | ng/ul | 0.00  |
| 10) 2,4-Dichlorophenol-d3      | 10.17 | 165 | 126249 | 12.57 | ng/ul | 0.00  |
| 12) 4-Chloroaniline-d4         | 10.69 | 131 | 122024 | 10.23 | ng/ul | 0.00  |
| 16) Dimethylphthalate-d6       | 13.80 | 166 | 413955 | 13.55 | ng/ul | 0.00  |
| 17) Acenaphthylene-d8          | 14.09 | 160 | 536113 | 13.49 | ng/ul | 0.00  |
| 20) 4-Nitrophenol-d4           | 14.63 | 143 | 34904  | 7.98  | ng/ul | 0.00  |
| 21) Fluorene-d10               | 15.39 | 176 | 373368 | 14.23 | ng/ul | 0.00  |
| 24) 4,6-Dinitro-2-methylphenol | 15.53 | 200 | 29273  | 7.17  | ng/ul | 0.00  |
| 26) Anthracene-d10             | 17.24 | 188 | 542464 | 13.17 | ng/ul | 0.00  |
| 30) Pyrene-d10                 | 19.53 | 212 | 568072 | 15.06 | ng/ul | 0.00  |
| 37) Benzo(a)pyrene-d12         | 23.44 | 264 | 358427 | 12.92 | ng/ul | -0.01 |

## Target Compounds

|                            |       |     |        |             | Ovalue |
|----------------------------|-------|-----|--------|-------------|--------|
| 25) Phenanthrene           | 17.19 | 178 | 101054 | 2.11 ng/ul  | 98     |
| 28) Fluoranthene           | 19.20 | 202 | 233615 | 4.78 ng/ul  | 99     |
| 31) Pyrene                 | 19.56 | 202 | 215013 | 4.54 ng/ul  | 97     |
| 32) Benzo(a)anthracene     | 21.31 | 228 | 107984 | 2.45 ng/ul  | 97     |
| 33) Chrysene               | 21.36 | 228 | 105788 | 2.54 ng/ul  | 96     |
| 35) Benzo(b)fluoranthene   | 22.91 | 252 | 140869 | 3.88 ng/ul# | 98     |
| 36) Benzo(k)fluoranthene   | 22.94 | 252 | 37521m | 1.10 ng/ul  |        |
| 38) Benzo(a)pyrene         | 23.49 | 252 | 88446  | 2.53 ng/ul# | 93     |
| 39) Indeno(1,2,3-cd)pyrene | 25.87 | 276 | 68210  | 1.65 ng/ul  | 94     |
| 41) Benzo(g,h,i)perylene   | 26.57 | 276 | 71795  | 2.07 ng/ul# | 92     |

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

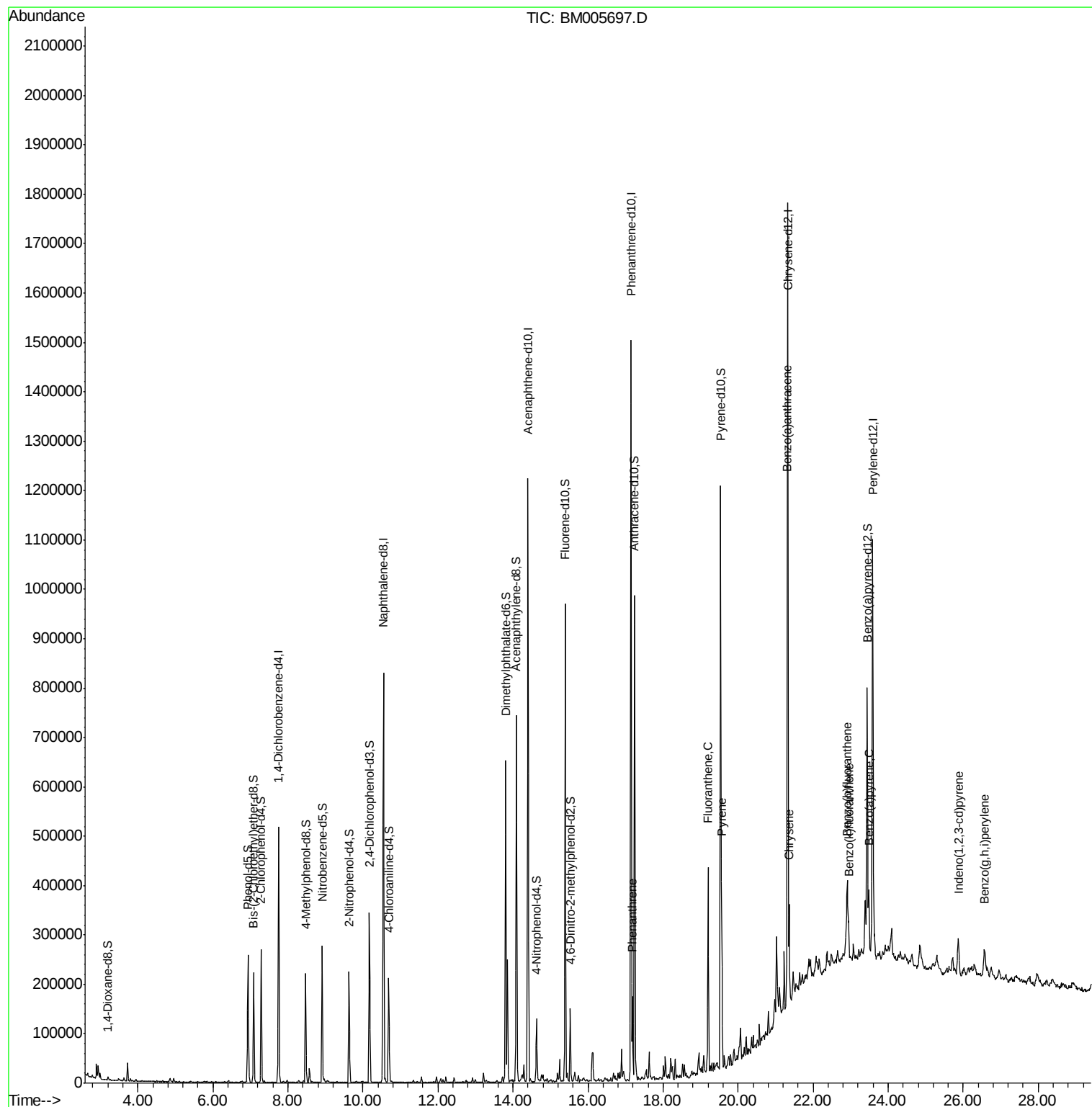
Data Path : Z:\HPCHEM1\BNA M\DATA\BM060716\  
Data File : BM005697.D  
Acq On : 07 Jun 2016 17:59  
Operator : UM/SJ  
Sample : H3411-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

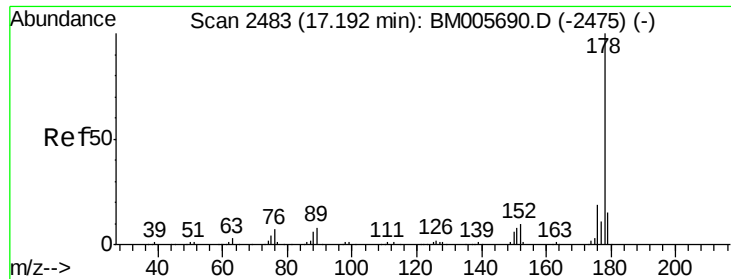
Instrument :  
BNA\_M  
ClientSampleId :  
D9XQ6

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Quant Time: Jun 08 01:47:05 2016  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM060216.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Jun 08 01:24:32 2016  
Response via : Initial Calibration





#25

Phenanthrene

Concen: 2.11 ng/ul

RT: 17.19 min Scan# 2482

Delta R.T. -0.01 min

Lab File: BM005697.D

Acq: 07 Jun 2016 17:59

Instrument :

BNA\_M

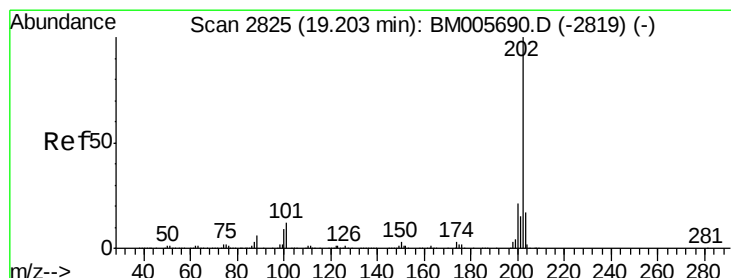
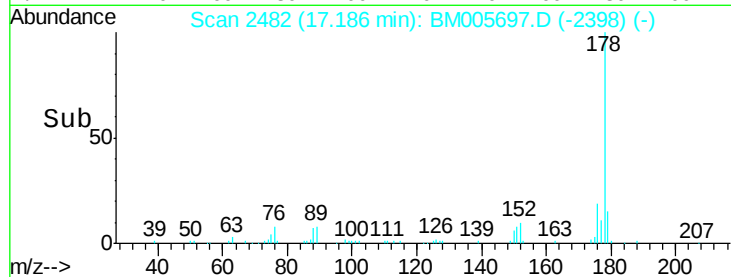
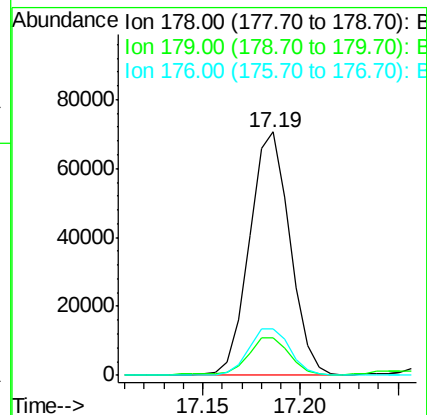
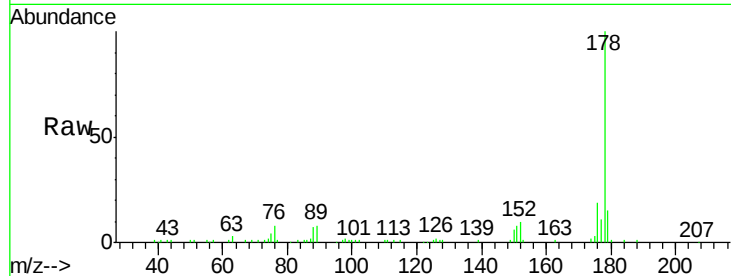
ClientSampleId :

D9XQ6

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 101054 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.4  | 11.8  | 17.8   |
| 176       | 19.3  | 14.8  | 22.2   |

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#28

Fluoranthene

Concen: 4.78 ng/ul

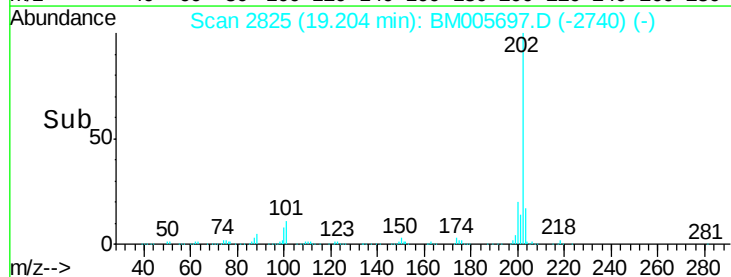
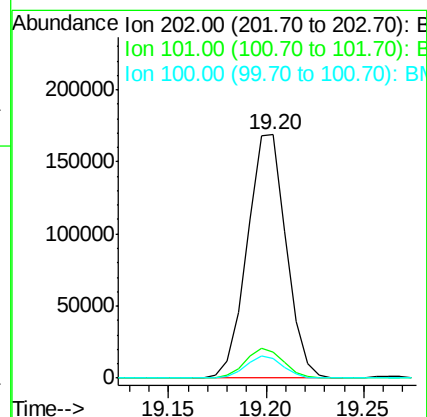
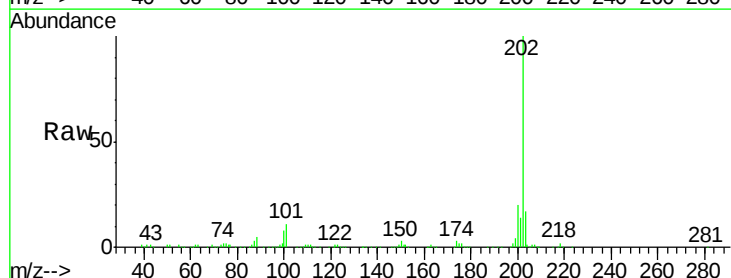
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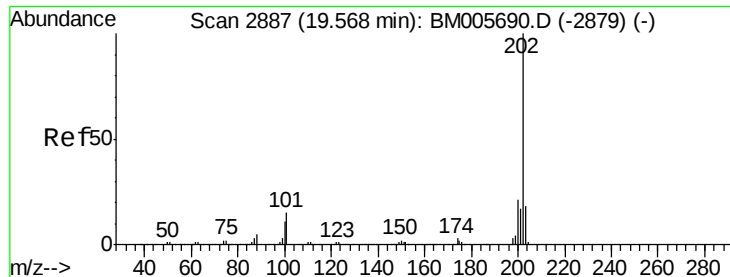
Delta R.T. 0.00 min

Lab File: BM005697.D

Acq: 07 Jun 2016 17:59

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 233615 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 10.8  | 8.9   | 13.3   |
| 100       | 8.1   | 7.0   | 10.4   |





#31

Pvrene

Concen: 4.54 ng/ul

RT: 19.56 min Scan# 2886

Delta R.T. -0.01 min

Lab File: BM005697.D

Acq: 07 Jun 2016 17:59

Instrument :

BNA\_M

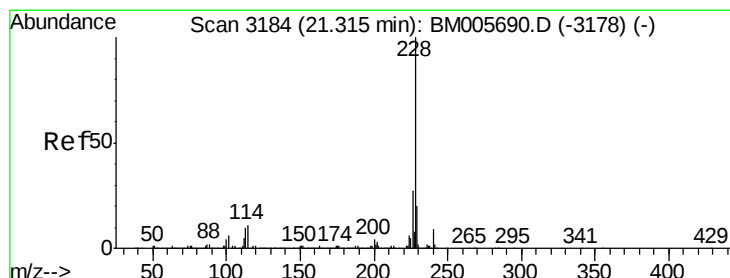
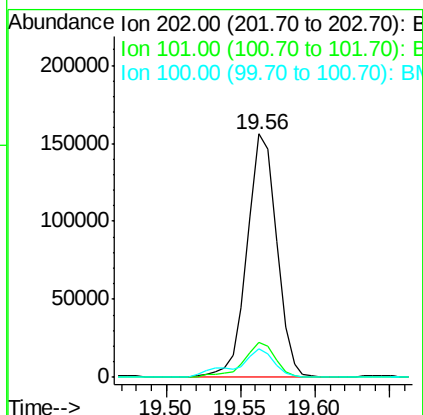
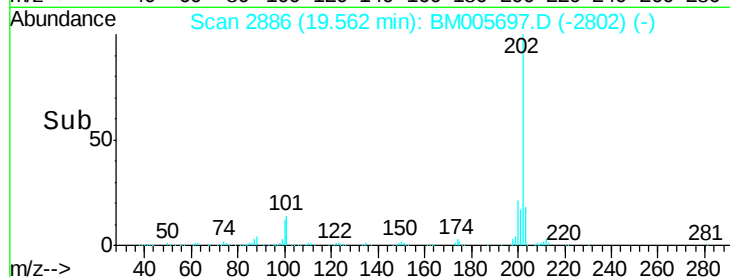
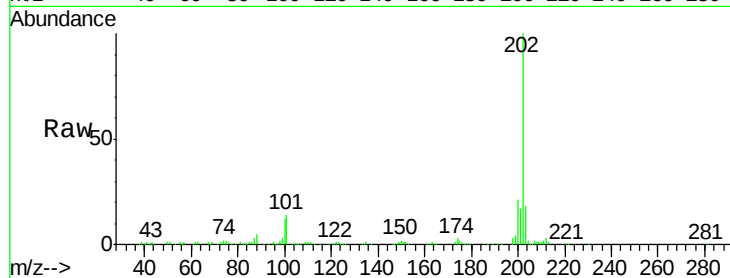
ClientSampleId :

D9XQ6

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 215013 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 14.2  | 9.8   | 14.8   |
| 100       | 11.5  | 9.3   | 13.9   |

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#32

Benzo(a)anthracene

Concen: 2.45 ng/ul

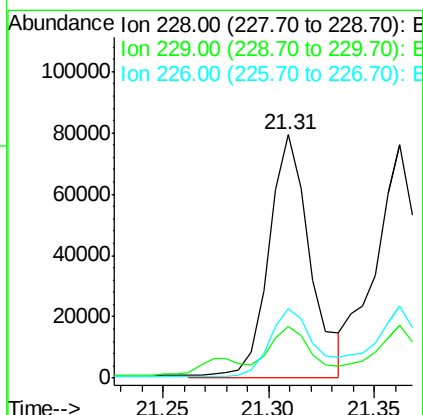
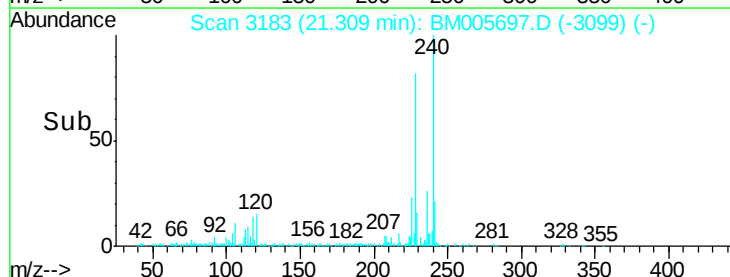
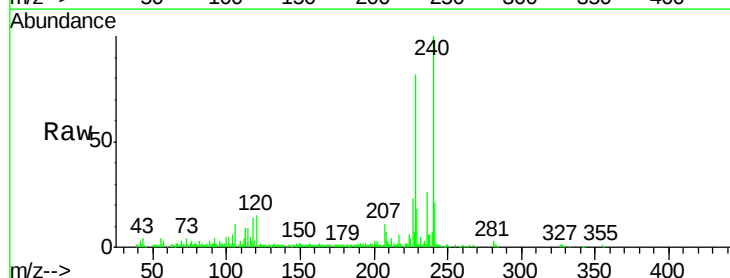
RT: 21.31 min Scan# 3183

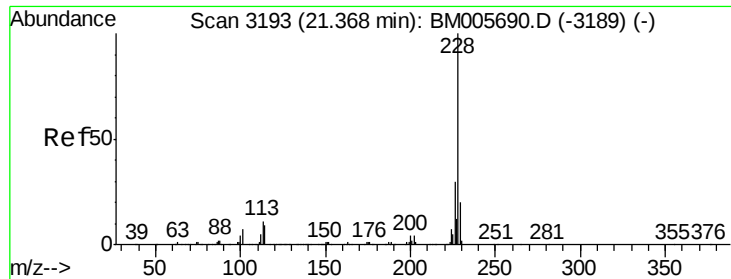
Delta R.T. -0.01 min

Lab File: BM005697.D

Acq: 07 Jun 2016 17:59

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 107984 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 21.4  | 16.6  | 25.0   |
| 226       | 28.6  | 21.0  | 31.4   |





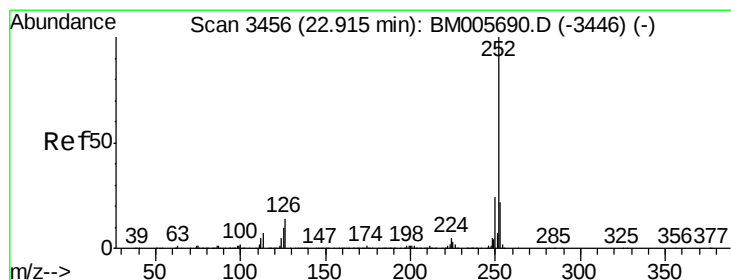
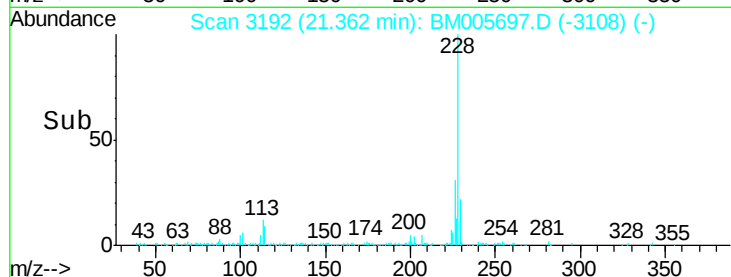
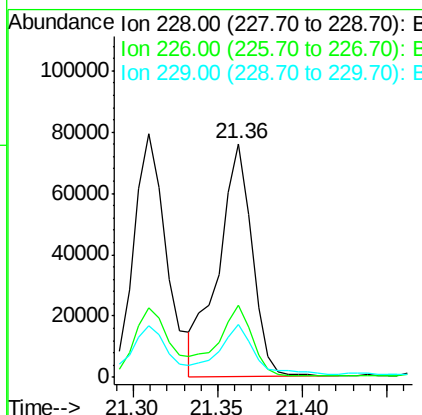
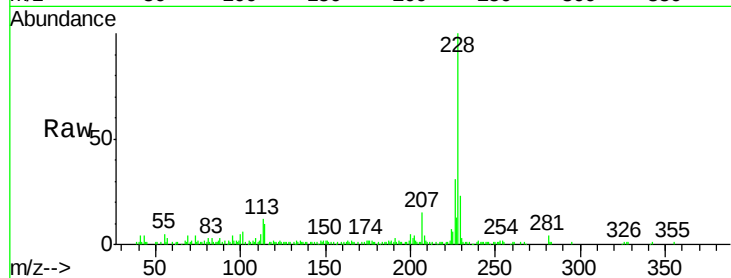
#33  
Chrysene  
Concen: 2.54 ng/ul  
RT: 21.36 min Scan# 3192  
Delta R.T. -0.01 min  
Lab File: BM005697.D  
Acq: 07 Jun 2016 17:59

Instrument :  
BNA\_M  
ClientSampleId :  
D9XQ6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.9  | 23.4  | 35.2  |
| 229     | 22.7  | 16.2  | 24.2  |

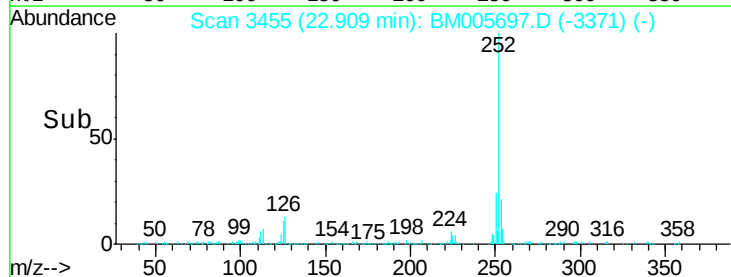
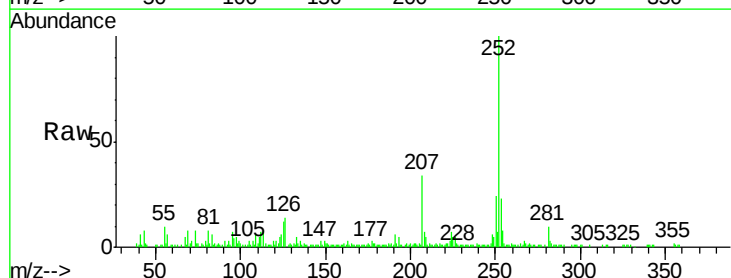
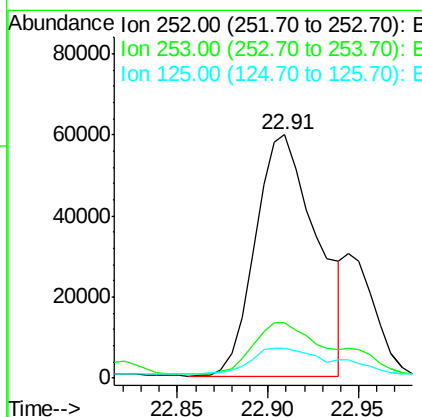
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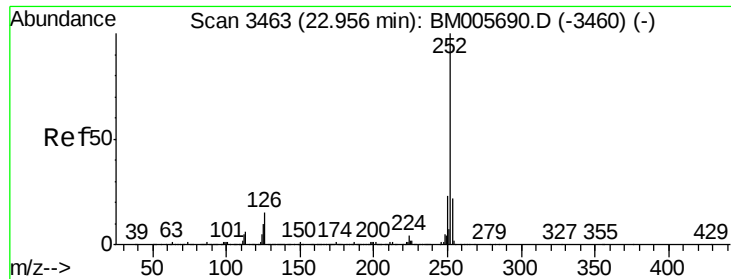
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#35  
Benzo(b)fluoranthene  
Concen: 3.88 ng/ul  
RT: 22.91 min Scan# 3455  
Delta R.T. -0.01 min  
Lab File: BM005697.D  
Acq: 07 Jun 2016 17:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.6  | 18.1  | 27.1  |
| 125     | 12.2  | 7.6   | 11.4  |





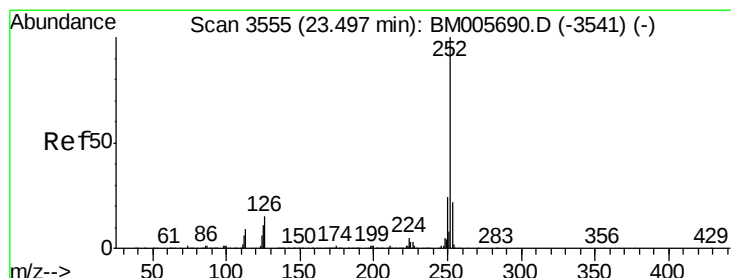
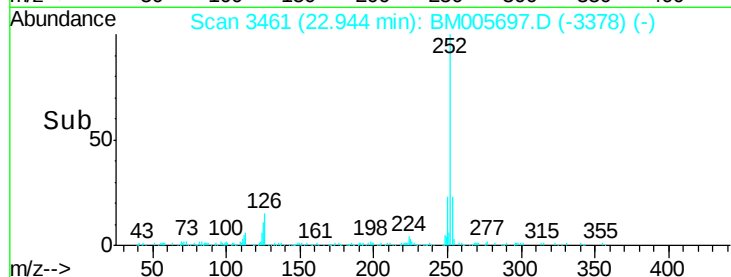
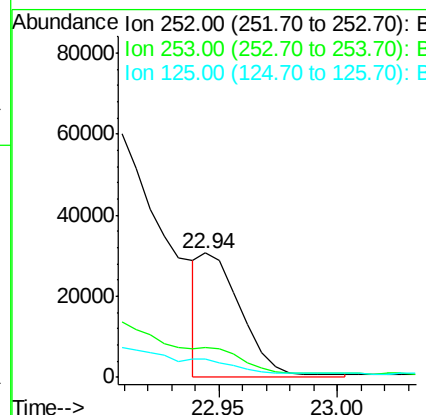
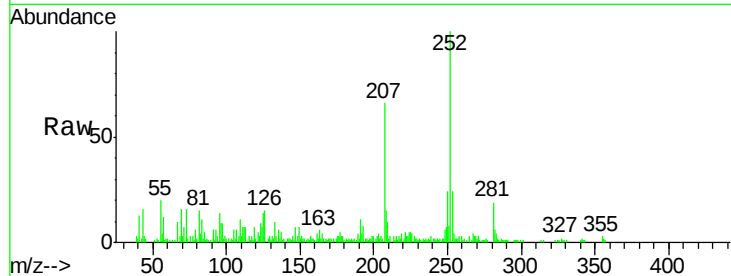
#36  
Benzo(k)fluoranthene  
Concen: 1.10 ng/ul m  
RT: 22.94 min Scan# 3461  
Delta R.T. -0.01 min  
Lab File: BM005697.D  
Acq: 07 Jun 2016 17:59

Instrument :  
BNA\_M  
ClientSampled :  
D9XQ6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 17.8  | 26.8  |
| 125     | 14.4  | 7.7   | 11.5# |

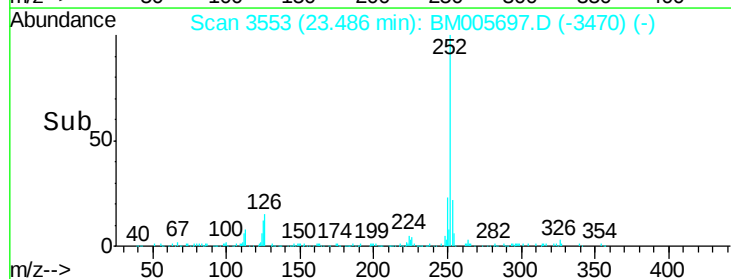
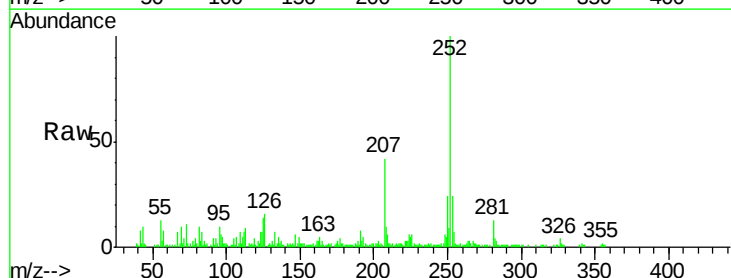
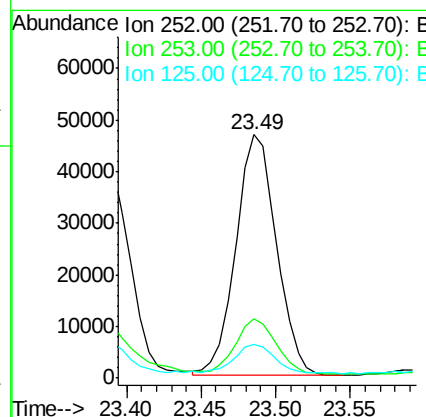
Manual Integrations  
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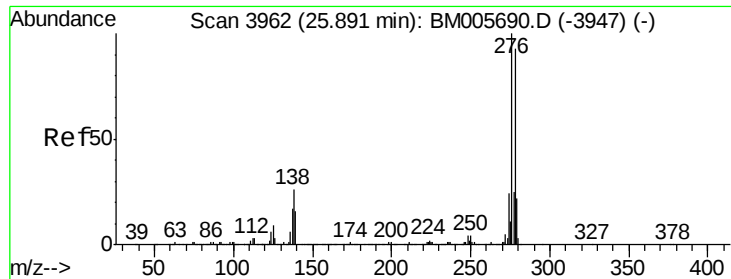
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#38  
Benzo(a)pyrene  
Concen: 2.53 ng/ul  
RT: 23.49 min Scan# 3553  
Delta R.T. -0.01 min  
Lab File: BM005697.D  
Acq: 07 Jun 2016 17:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.1  | 17.4  | 26.0  |
| 125     | 14.0  | 8.2   | 12.2# |





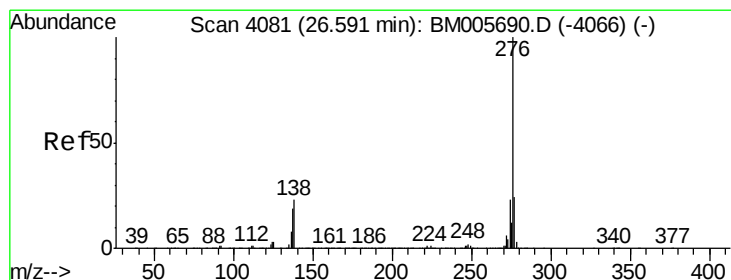
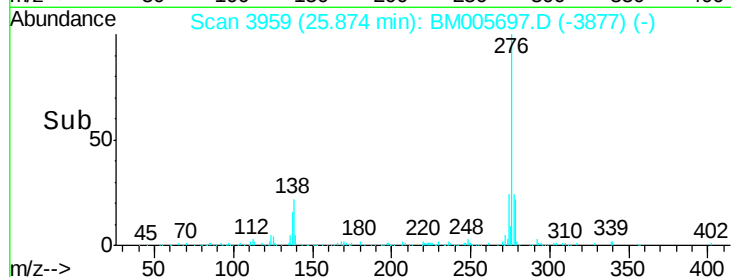
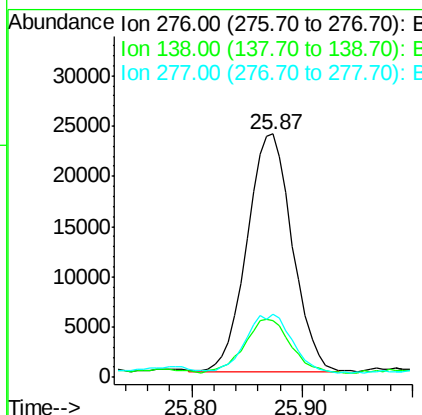
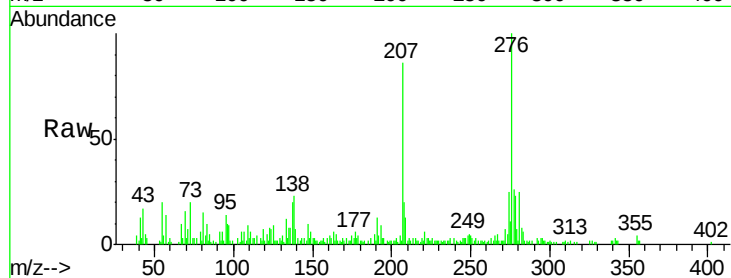
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Indeno(1,2,3-cd)pyrene  
Concen: 1.65 ng/ul  
RT: 25.87 min Scan# 3959  
Delta R.T. -0.02 min  
Lab File: BM005697.D  
Acq: 07 Jun 2016 17:59

Instrument :  
BNA\_M  
ClientSampleId :  
D9XQ6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.5  | 15.8  | 23.6  |
| 277     | 26.1  | 19.0  | 28.6  |

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#41  
Benzo(g,h,i)perylene  
Concen: 2.07 ng/ul  
RT: 26.57 min Scan# 4077  
Delta R.T. -0.02 min  
Lab File: BM005697.D  
Acq: 07 Jun 2016 17:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 24.3  | 13.9  | 20.9# |
| 277     | 26.2  | 19.8  | 29.6  |

