

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM061716\  
 Data File : BM005852.D  
 Acq On : 17 Jun 2016 05:50  
 Operator : UM/SJ  
 Sample : H3537-13  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampled :  
 D9Y43

Manual Integrations  
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 6/17/2016 7:28:40 PM

Quant Time: Jun 17 07:17:07 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM061716.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Jun 17 01:56:56 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.73  | 152  | 33117    | 20.00 | ng/ul | 0.00     |
| 7) Naphthalene-d8         | 10.52 | 136  | 154298   | 20.00 | ng/ul | 0.00     |
| 15) Acenaphthene-d10      | 14.37 | 164  | 95461    | 20.00 | ng/ul | 0.00     |
| 23) Phenanthrene-d10      | 17.12 | 188  | 216733   | 20.00 | ng/ul | 0.00     |
| 29) Chrysene-d12          | 21.31 | 240  | 217729   | 20.00 | ng/ul | 0.00     |
| 34) Perylene-d12          | 23.56 | 264  | 197276   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 2) 1,4-Dioxane-d8              | 3.18  | 96  | 846    | 3.31  | ng/uL | 0.00 |
| 3) Phenol-d5                   | 6.92  | 99  | 49992  | 18.03 | ng/ul | 0.00 |
| 4) Bis-(2-Chloroethyl)ether-d  | 7.06  | 67  | 27781  | 19.33 | ng/ul | 0.00 |
| 5) 2-Chlorophenol-d4           | 7.27  | 132 | 47047  | 19.94 | ng/ul | 0.00 |
| 6) 4-Methylphenol-d8           | 8.45  | 113 | 37950  | 15.31 | ng/ul | 0.00 |
| 8) Nitrobenzene-d5             | 8.89  | 128 | 23074  | 21.19 | ng/ul | 0.00 |
| 9) 2-Nitrophenol-d4            | 9.61  | 143 | 27646  | 20.77 | ng/ul | 0.00 |
| 10) 2,4-Dichlorophenol-d3      | 10.16 | 165 | 50887  | 19.36 | ng/ul | 0.00 |
| 12) 4-Chloroaniline-d4         | 10.67 | 131 | 31074  | 17.47 | ng/ul | 0.00 |
| 16) Dimethylphthalate-d6       | 13.79 | 166 | 170955 | 18.93 | ng/ul | 0.00 |
| 17) Acenaphthylene-d8          | 14.07 | 160 | 211582 | 20.34 | ng/ul | 0.00 |
| 20) 4-Nitrophenol-d4           | 14.63 | 143 | 11566  | 10.63 | ng/ul | 0.01 |
| 21) Fluorene-d10               | 15.37 | 176 | 150613 | 19.57 | ng/ul | 0.00 |
| 24) 4,6-Dinitro-2-methylphenol | 15.52 | 200 | 14885  | 10.18 | ng/ul | 0.00 |
| 26) Anthracene-d10             | 17.22 | 188 | 228456 | 20.19 | ng/ul | 0.00 |
| 30) Pyrene-d10                 | 19.52 | 212 | 259801 | 25.17 | ng/ul | 0.00 |
| 37) Benzo(a)pyrene-d12         | 23.42 | 264 | 198266 | 20.10 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |        |       |        | Qvalue |
|----------------------------|-------|-----|--------|-------|--------|--------|
| 25) Phenanthrene           | 17.16 | 178 | 73445  | 5.69  | ng/ul  | 96     |
| 28) Fluoranthene           | 19.19 | 202 | 248243 | 15.31 | ng/ul  | 98     |
| 31) Pyrene                 | 19.55 | 202 | 358530 | 27.86 | ng/ul  | 99     |
| 32) Benzo(a)anthracene     | 21.29 | 228 | 162867 | 11.98 | ng/ul  | 97     |
| 33) Chrysene               | 21.34 | 228 | 197846 | 15.11 | ng/ul  | 97     |
| 35) Benzo(b)fluoranthene   | 22.89 | 252 | 149229 | 12.15 | ng/ul# | 95     |
| 36) Benzo(k)fluoranthene   | 22.93 | 252 | 44173m | 3.72  | ng/ul  |        |
| 38) Benzo(a)pyrene         | 23.47 | 252 | 99759  | 8.27  | ng/ul  | 98     |
| 39) Indeno(1,2,3-cd)pyrene | 25.84 | 276 | 59076  | 4.01  | ng/ul  | 99     |
| 40) Dibenzo(a,h)anthracene | 25.84 | 278 | 19428m | 1.60  | ng/ul  |        |
| 41) Benzo(g,h,i)perylene   | 26.55 | 276 | 58956  | 4.70  | ng/ul  | 98     |

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

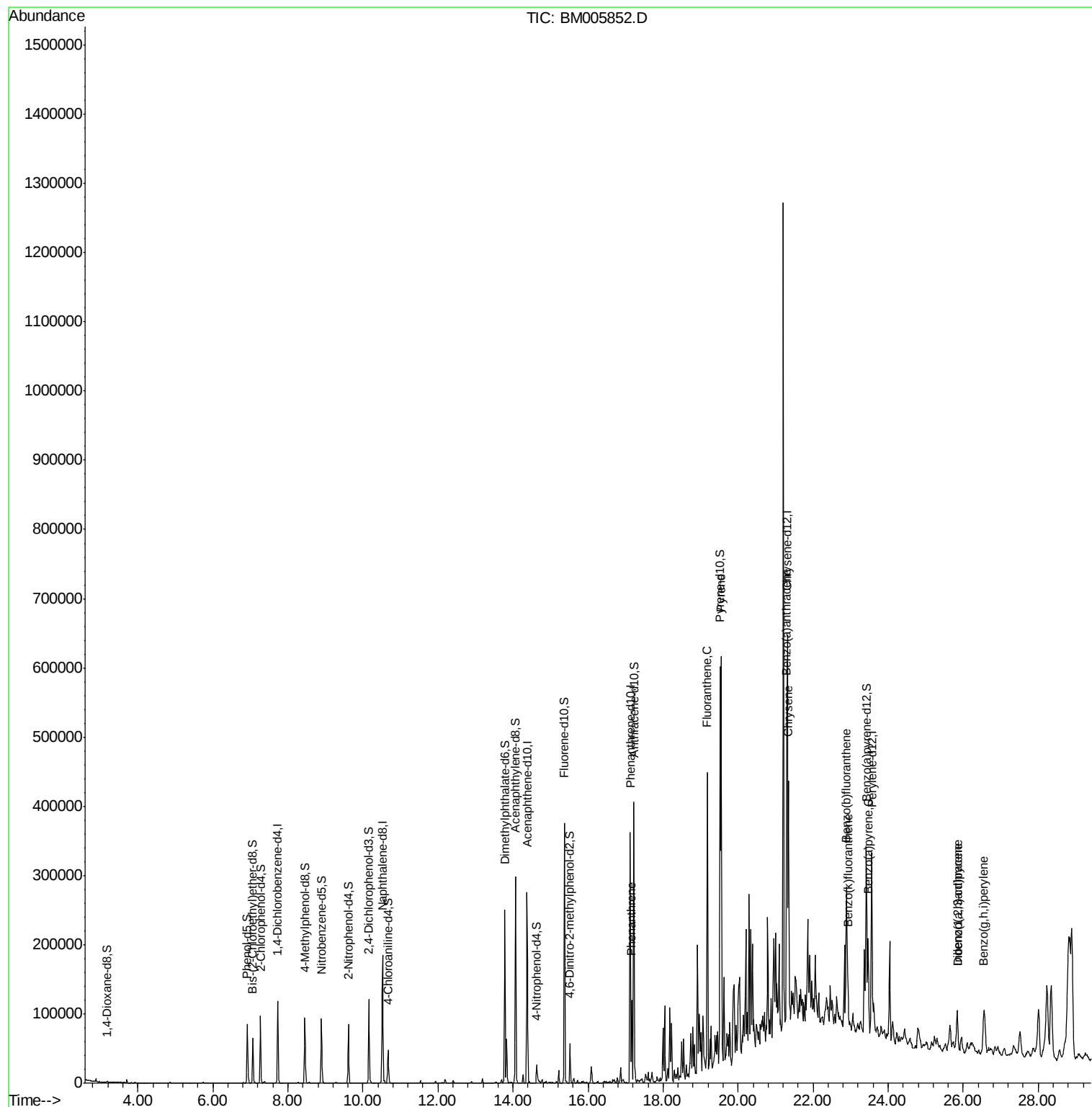
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM061716\  
Data File : BM005852.D  
Acq On : 17 Jun 2016 05:50  
Operator : UM/SJ  
Sample : H3537-13  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

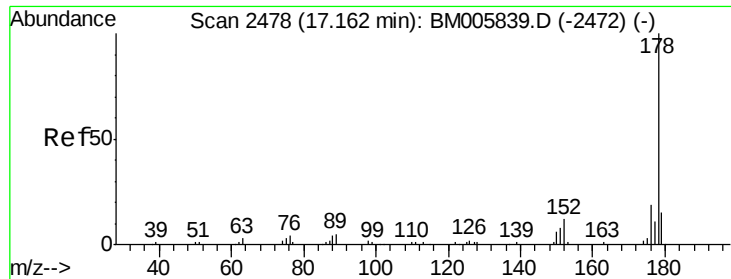
Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Time: Jun 17 07:17:07 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM061716.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Jun 17 01:56:56 2016  
Response via : Initial Calibration





#25

Phenanthrene

Concen: 5.69 ng/u1

RT: 17.16 min Scan# 2478

Delta R.T. -0.00 min

Lab File: BM005852.D

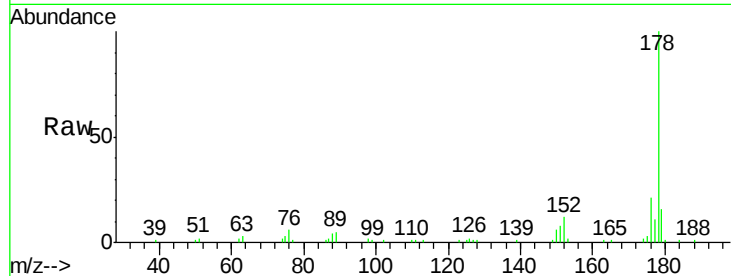
Acq: 17 Jun 2016 05:50

Instrument :

BNA\_M

ClientSampleId :

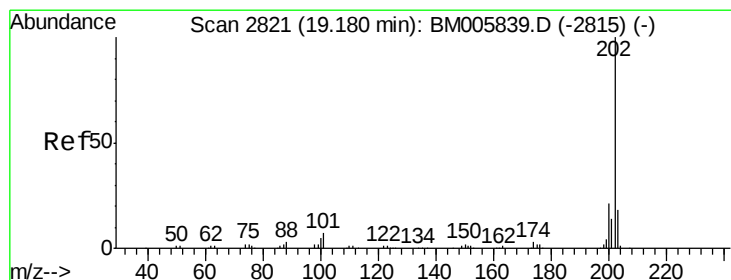
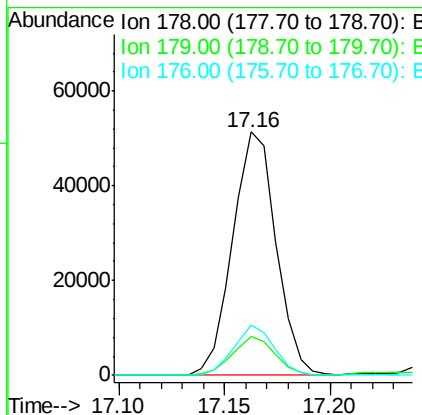
D9Y43



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 73445 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 16.0  | 12.0  | 18.0  |
| 176       | 20.7  | 14.9  | 22.3  |

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#28

Fluoranthene

Concen: 15.31 ng/u1

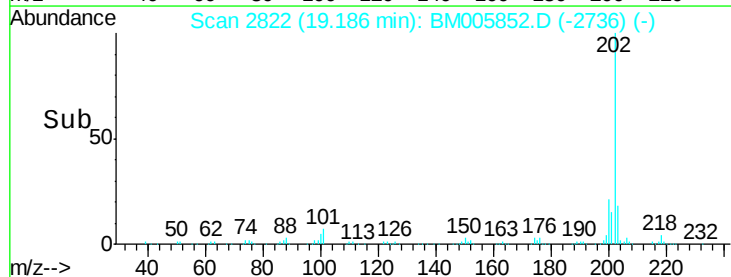
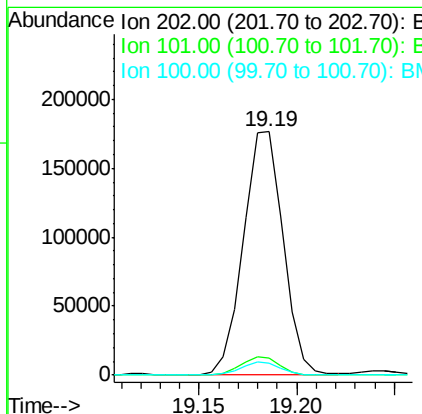
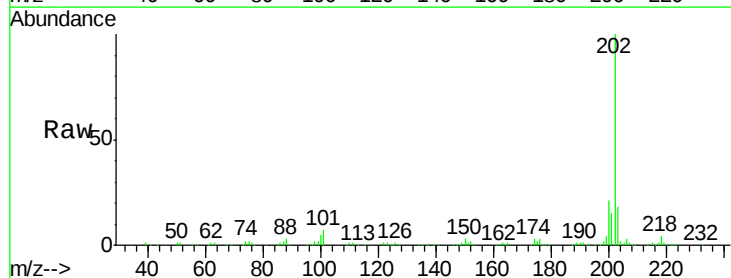
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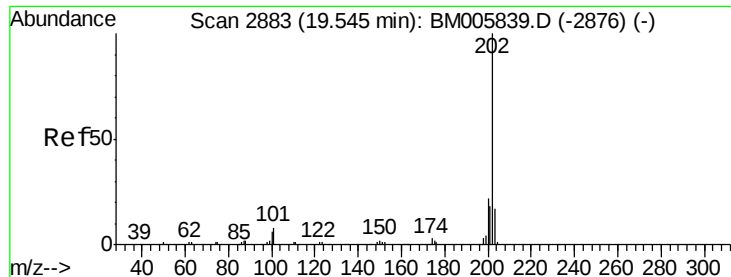
Delta R.T. 0.01 min

Lab File: BM005852.D

Acq: 17 Jun 2016 05:50

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 248243 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 6.8   | 6.1   | 9.1    |
| 100       | 4.7   | 4.2   | 6.2    |





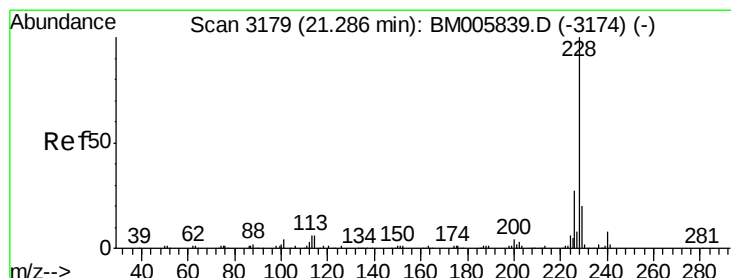
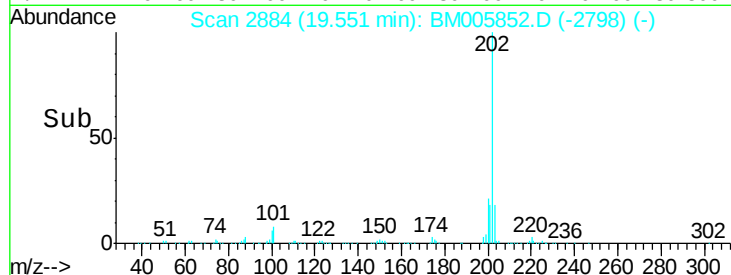
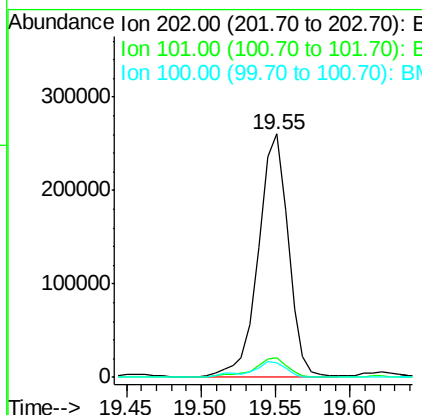
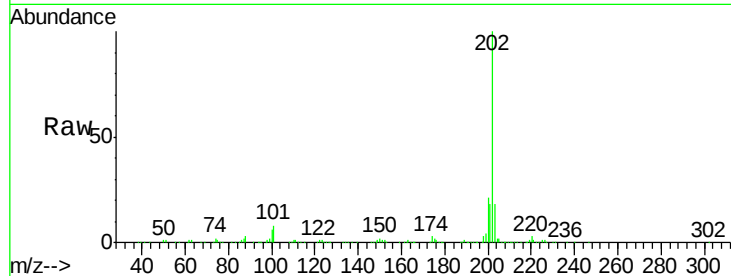
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 Pyrene  
 Concen: 27.86 ng/ul  
 RT: 19.55 min Scan# 2884  
 Delta R.T. 0.01 min  
 Lab File: BM005852.D  
 Acq: 17 Jun 2016 05:50

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9Y43

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 7.9   | 6.5        | 9.7        |
| 100     | 6.1   | 5.4        | 8.2        |

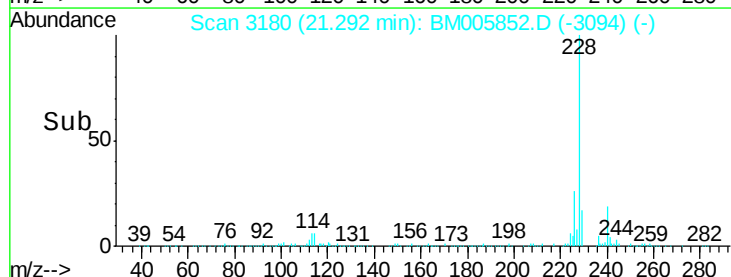
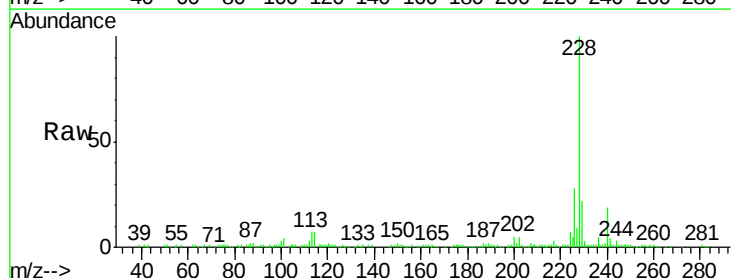
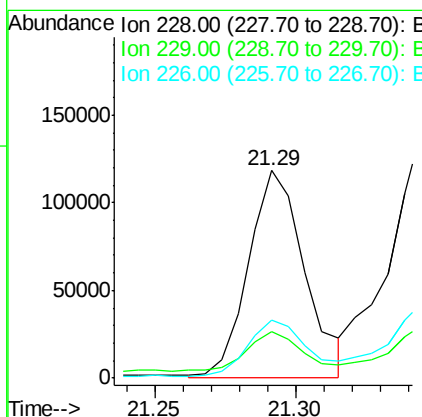
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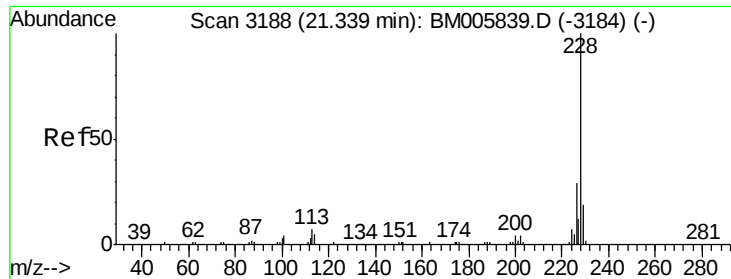
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#32  
 Benzo(a)anthracene  
 Concen: 11.98 ng/ul  
 RT: 21.29 min Scan# 3180  
 Delta R.T. 0.01 min  
 Lab File: BM005852.D  
 Acq: 17 Jun 2016 05:50

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 22.3  | 15.8       | 23.6       |
| 226     | 27.9  | 21.8       | 32.6       |





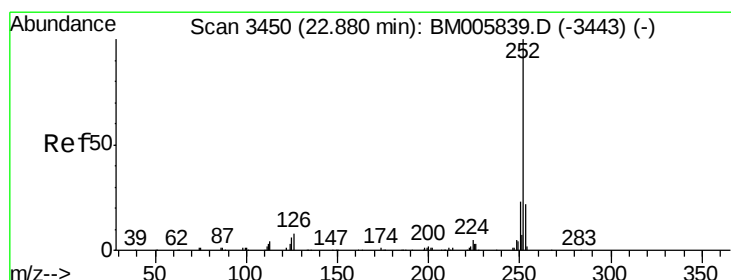
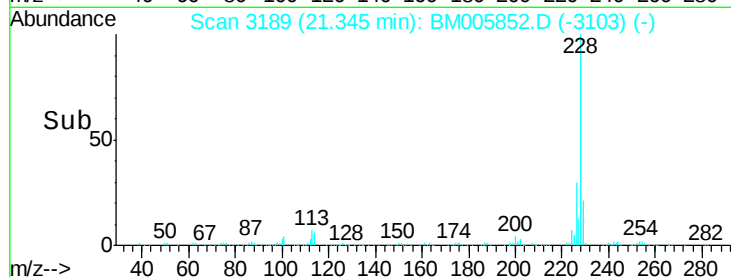
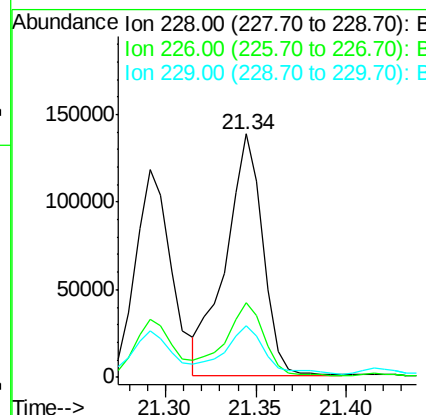
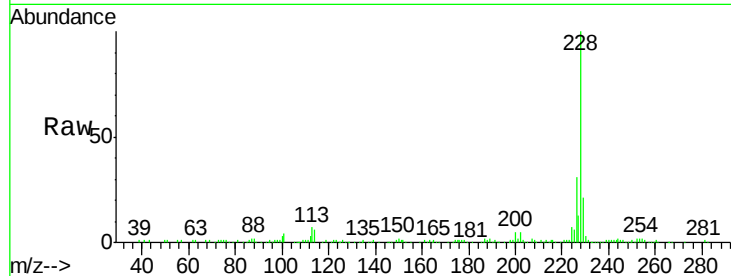
#33  
 Chrysene  
 Concen: 15.11 ng/ul  
 RT: 21.34 min Scan# 3189  
 Delta R.T. 0.01 min  
 Lab File: BM005852.D  
 Acq: 17 Jun 2016 05:50

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9Y43

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 197846 |       |       |
| 226     | 30.7  | 23.5   | 35.3  |       |
| 229     | 21.4  | 15.4   | 23.0  |       |

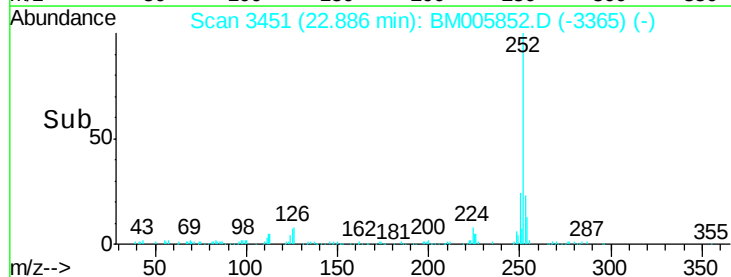
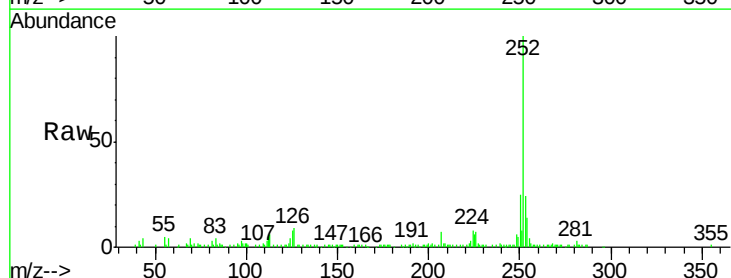
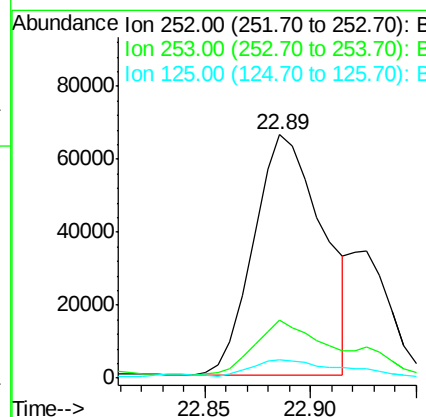
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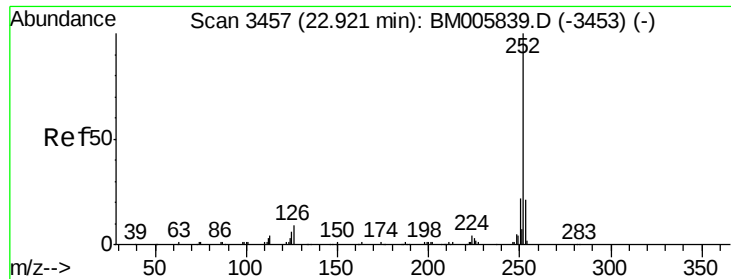
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#35  
 Benzo(b)fluoranthene  
 Concen: 12.15 ng/ul  
 RT: 22.89 min Scan# 3451  
 Delta R.T. 0.01 min  
 Lab File: BM005852.D  
 Acq: 17 Jun 2016 05:50

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 149229 |       |       |
| 253     | 23.8  | 17.1   | 25.7  |       |
| 125     | 7.5   | 4.9    | 7.3#  |       |





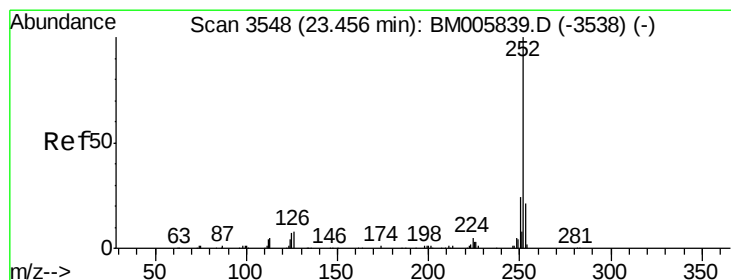
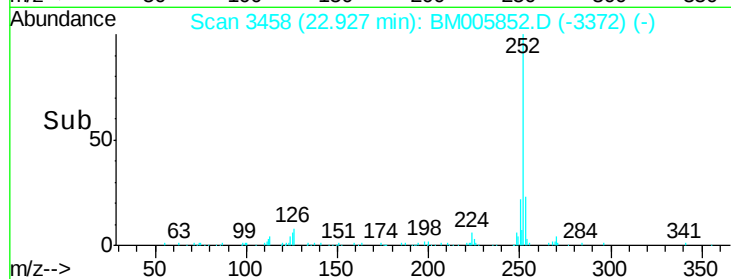
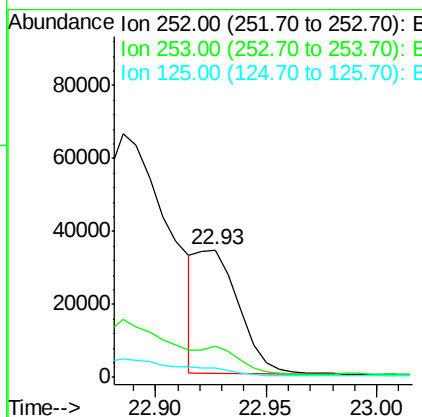
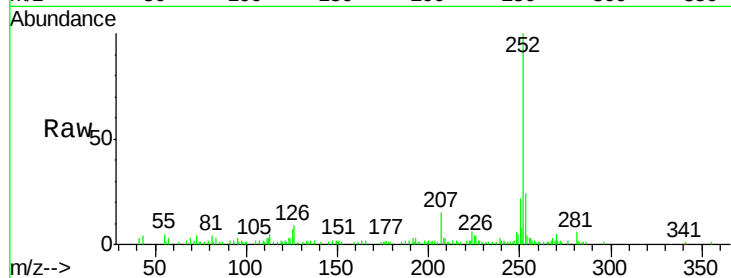
#36  
Benzo(k)fluoranthene  
Concen: 3.72 ng/ul m  
RT: 22.93 min Scan# 3458  
Delta R.T. 0.01 min  
Lab File: BM005852.D  
Acq: 17 Jun 2016 05:50

Instrument :  
BNA\_M  
ClientSampleId :  
D9Y43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.4  | 17.5  | 26.3  |
| 125     | 7.2   | 4.8   | 7.2   |

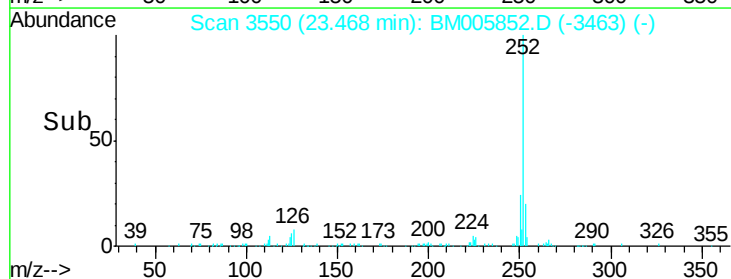
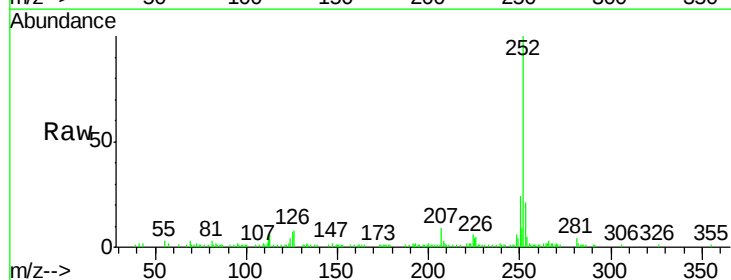
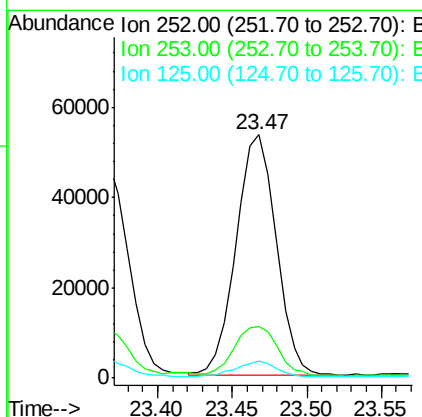
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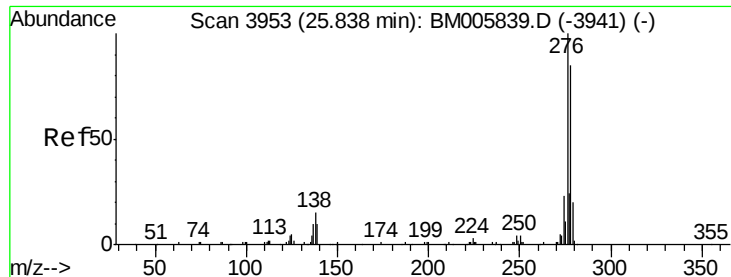
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#38  
Benzo(a)pyrene  
Concen: 8.27 ng/ul  
RT: 23.47 min Scan# 3550  
Delta R.T. 0.01 min  
Lab File: BM005852.D  
Acq: 17 Jun 2016 05:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.4  | 18.0  | 27.0  |
| 125     | 6.9   | 5.1   | 7.7   |





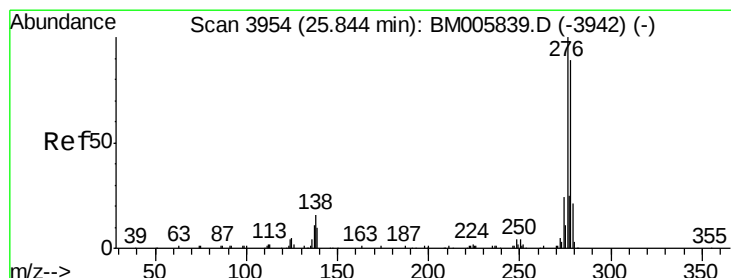
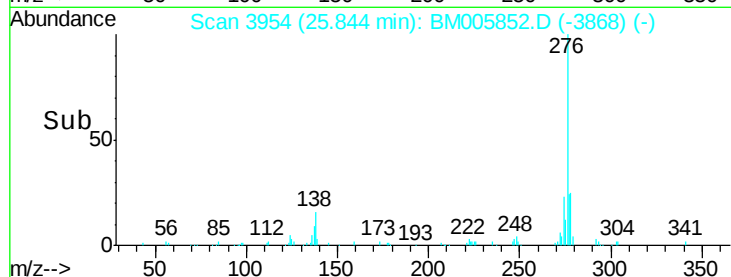
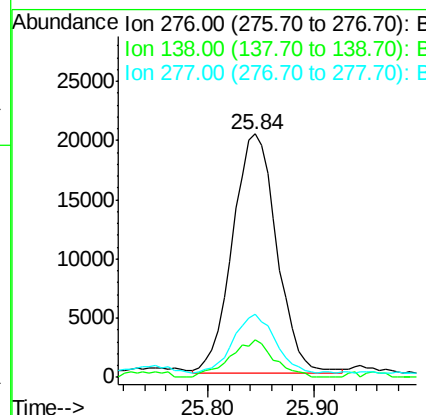
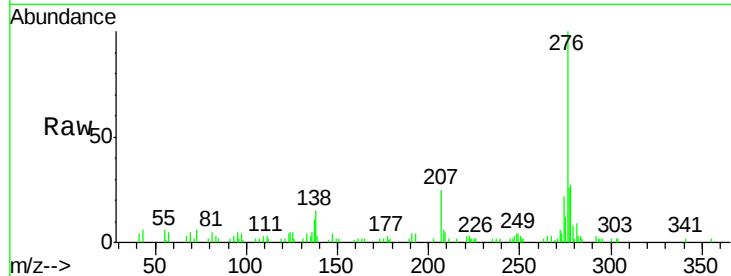
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 Indeno(1,2,3-cd)pyrene  
 Concen: 4.01 ng/ul  
 RT: 25.84 min Scan# 3954  
 Delta R.T. 0.01 min  
 Lab File: BM005852.D  
 Acq: 17 Jun 2016 05:50

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9Y43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.2  | 11.9  | 17.9  |
| 277     | 25.7  | 21.0  | 31.6  |

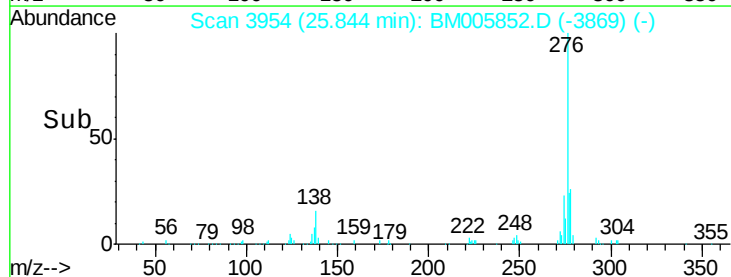
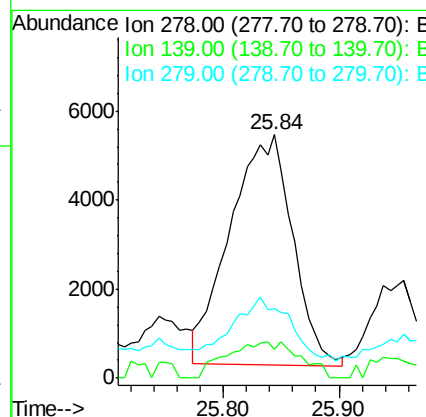
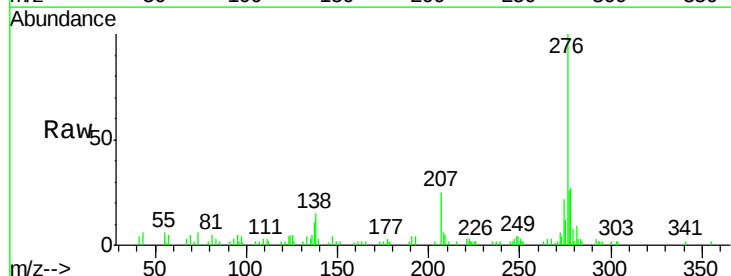
Manual Integrations  
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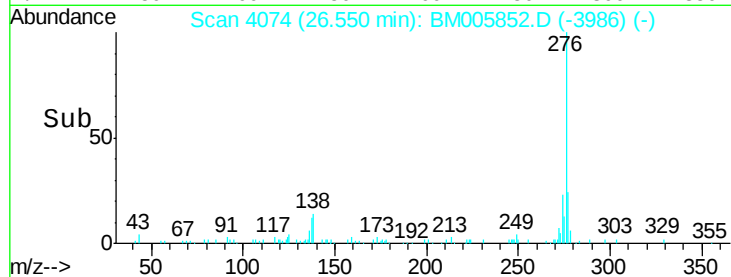
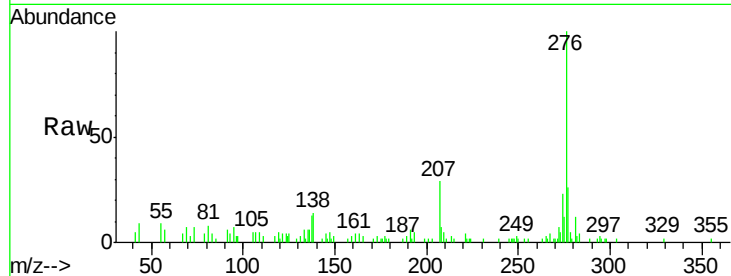
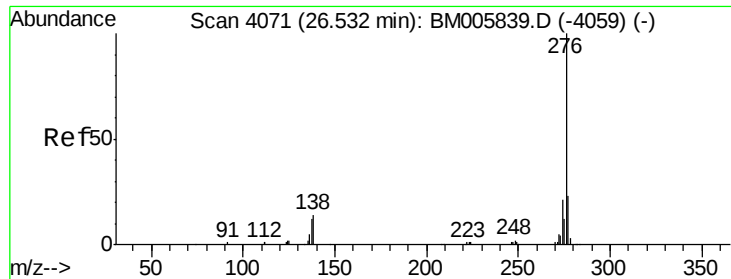
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#40  
 Dibenzo(a,h)anthracene  
 Concen: 1.60 ng/ul m  
 RT: 25.84 min Scan# 3954  
 Delta R.T. -0.00 min  
 Lab File: BM005852.D  
 Acq: 17 Jun 2016 05:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 12.0  | 8.2   | 12.4  |
| 279     | 28.6  | 18.6  | 27.8# |





#41

Benzo(g,h,i)perylene

Concen: 4.70 ng/ul

RT: 26.55 min Scan# 4074

Delta R.T. 0.02 min

Lab File: BM005852.D

Acq: 17 Jun 2016 05:50

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 58956 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 14.2  | 10.6  | 15.8  |
| 277       | 25.7  | 19.6  | 29.4  |

Instrument :

BNA\_M

ClientSampleId :

D9Y43

Manual Integrations  
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