

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM061716\  
 Data File : BM005843.D  
 Acq On : 17 Jun 2016 00:26  
 Operator : UM/SJ  
 Sample : H3537-14  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9Y44

Manual Integrations  
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Quant Time: Jun 17 02:10:38 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  | 22551    | 20.00 | ng/ul | 0.00     |
| 7) Naphthalene-d8         | 10.52 | 136  | 112729   | 20.00 | ng/ul | 0.00     |
| 15) Acenaphthene-d10      | 14.37 | 164  | 75311    | 20.00 | ng/ul | 0.00     |
| 23) Phenanthrene-d10      | 17.12 | 188  | 179706   | 20.00 | ng/ul | 0.00     |
| 29) Chrysene-d12          | 21.30 | 240  | 224449   | 20.00 | ng/ul | 0.00     |
| 34) Perylene-d12          | 23.56 | 264  | 229370   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 2) 1,4-Dioxane-d8              | 3.18  | 96  | 490    | 2.81  | ng/uL | 0.00 |
| 3) Phenol-d5                   | 6.92  | 99  | 28275  | 14.98 | ng/ul | 0.00 |
| 4) Bis-(2-Chloroethyl)ether-d  | 7.06  | 67  | 18804  | 19.21 | ng/ul | 0.00 |
| 5) 2-Chlorophenol-d4           | 7.26  | 132 | 27799  | 17.30 | ng/ul | 0.00 |
| 6) 4-Methylphenol-d8           | 8.45  | 113 | 15900  | 9.42  | ng/ul | 0.00 |
| 8) Nitrobenzene-d5             | 8.89  | 128 | 14720  | 18.50 | ng/ul | 0.00 |
| 9) 2-Nitrophenol-d4            | 9.61  | 143 | 17921  | 18.43 | ng/ul | 0.00 |
| 10) 2,4-Dichlorophenol-d3      | 10.16 | 165 | 30201  | 15.73 | ng/ul | 0.00 |
| 12) 4-Chloroaniline-d4         | 10.67 | 131 | 10288m | 7.92  | ng/ul | 0.00 |
| 16) Dimethylphthalate-d6       | 13.78 | 166 | 123213 | 17.29 | ng/ul | 0.00 |
| 17) Acenaphthylene-d8          | 14.06 | 160 | 151841 | 18.50 | ng/ul | 0.00 |
| 20) 4-Nitrophenol-d4           | 14.65 | 143 | 3634   | 4.23  | ng/ul | 0.03 |
| 21) Fluorene-d10               | 15.37 | 176 | 109417 | 18.02 | ng/ul | 0.00 |
| 24) 4,6-Dinitro-2-methylphenol | 15.52 | 200 | 11066  | 9.13  | ng/ul | 0.00 |
| 26) Anthracene-d10             | 17.22 | 188 | 166977 | 17.79 | ng/ul | 0.00 |
| 30) Pyrene-d10                 | 19.52 | 212 | 201402 | 18.93 | ng/ul | 0.00 |
| 37) Benzo(a)pyrene-d12         | 23.41 | 264 | 208524 | 18.18 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |        |      |        | Qvalue |
|----------------------------|-------|-----|--------|------|--------|--------|
| 25) Phenanthrene           | 17.16 | 178 | 22399  | 2.09 | ng/ul  | 98     |
| 28) Fluoranthene           | 19.18 | 202 | 80766  | 6.01 | ng/ul  | 98     |
| 31) Pyrene                 | 19.54 | 202 | 117804 | 8.88 | ng/ul  | 100    |
| 32) Benzo(a)anthracene     | 21.29 | 228 | 62667  | 4.47 | ng/ul  | 96     |
| 33) Chrysene               | 21.34 | 228 | 75039  | 5.56 | ng/ul  | 96     |
| 35) Benzo(b)fluoranthene   | 22.88 | 252 | 73343  | 5.14 | ng/ul# | 98     |
| 36) Benzo(k)fluoranthene   | 22.92 | 252 | 21831m | 1.58 | ng/ul  |        |
| 38) Benzo(a)pyrene         | 23.46 | 252 | 47088  | 3.36 | ng/ul  | 99     |
| 39) Indeno(1,2,3-cd)pyrene | 25.84 | 276 | 27785  | 1.62 | ng/ul  | 99     |
| 41) Benzo(g,h,i)perylene   | 26.53 | 276 | 25744  | 1.77 | ng/ul  | 95     |

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

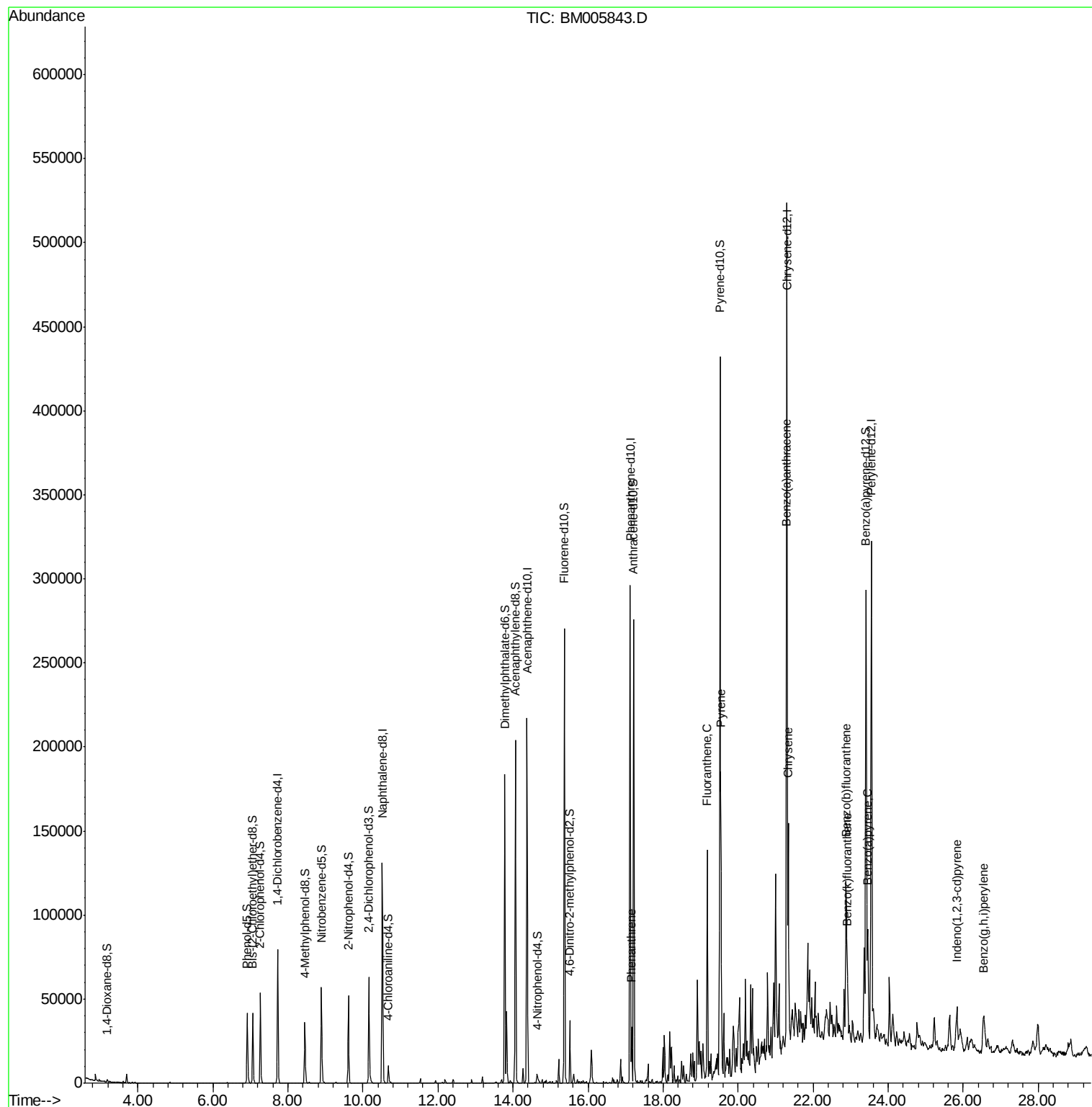
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM061716\  
Data File : BM005843.D  
Acq On : 17 Jun 2016 00:26  
Operator : UM/SJ  
Sample : H3537-14  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

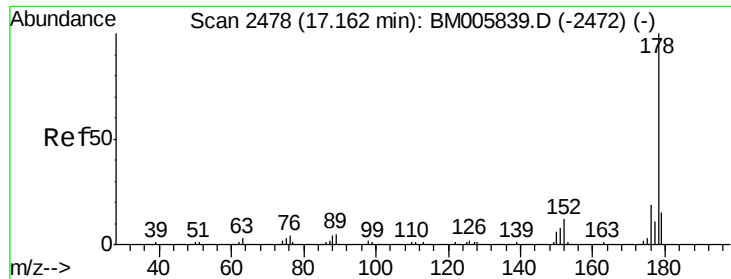
Instrument :  
BNA\_M  
ClientSampleId :  
D9Y44

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Quant Time: Jun 17 02:10:38 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





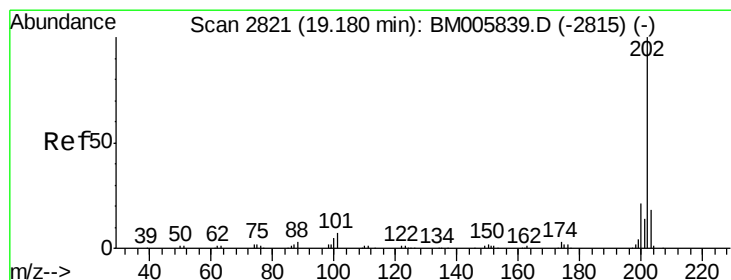
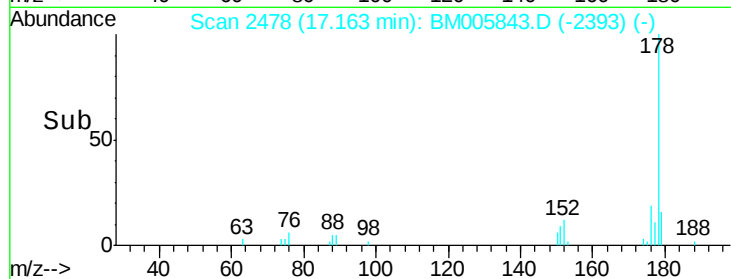
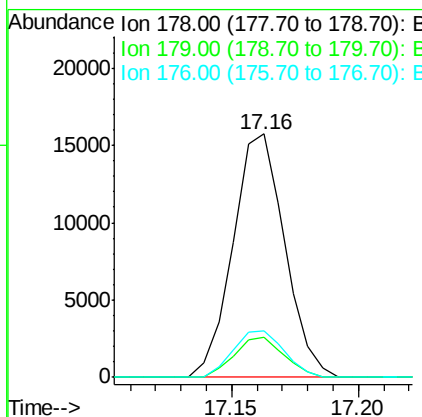
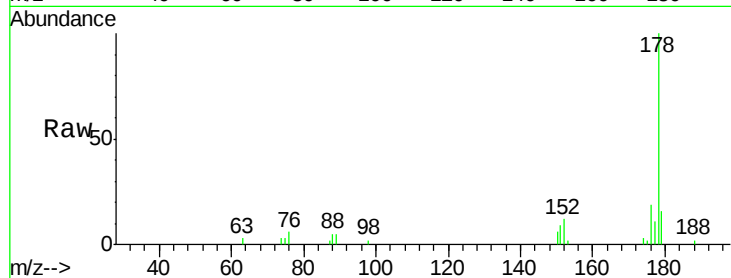
#25  
 Phenanthrene  
 Concen: 2.09 ng/ul  
 RT: 17.16 min Scan# 2478  
 Delta R.T. 0.00 min  
 Lab File: BM005843.D  
 Acq: 17 Jun 2016 00:26

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9Y44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.3  | 12.0  | 18.0  |
| 176     | 19.0  | 14.9  | 22.3  |

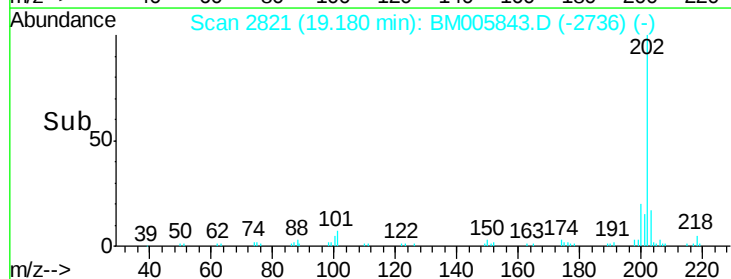
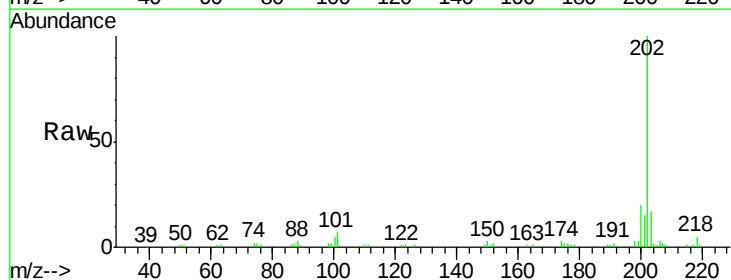
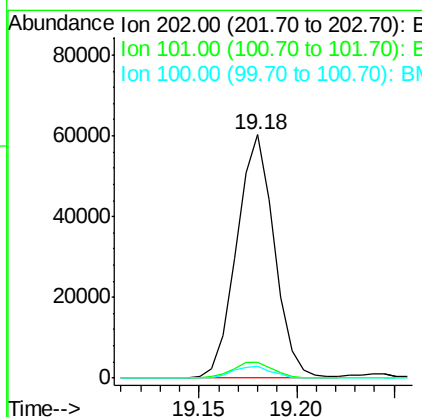
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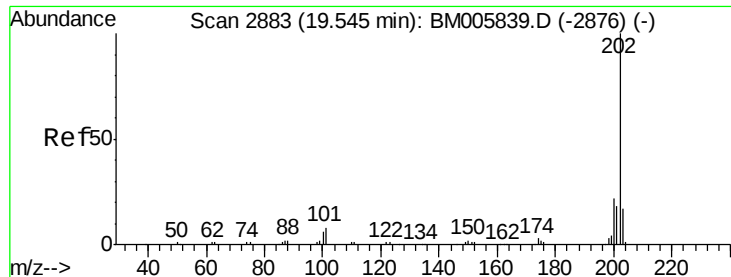
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#28  
 Fluoranthene  
 Concen: 6.01 ng/ul  
 RT: 19.18 min Scan# 2821  
 Delta R.T. 0.00 min  
 Lab File: BM005843.D  
 Acq: 17 Jun 2016 00:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 6.5   | 6.1   | 9.1   |
| 100     | 4.8   | 4.2   | 6.2   |





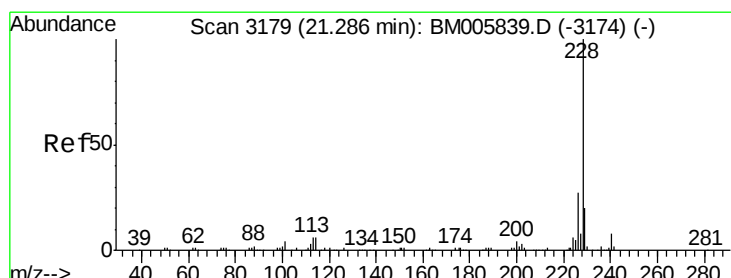
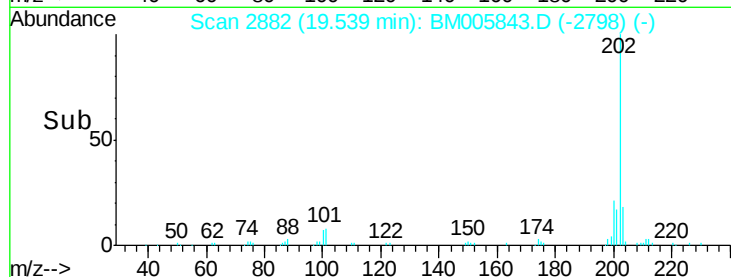
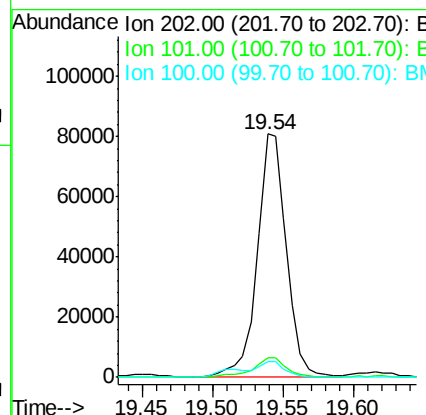
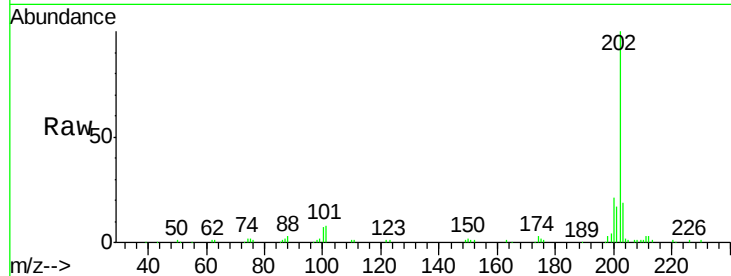
#31  
 Pyrene  
 Concen: 8.88 ng/ul  
 RT: 19.54 min Scan# 2882  
 Delta R.T. -0.01 min  
 Lab File: BM005843.D  
 Acq: 17 Jun 2016 00:26

Instrument :  
 BNA\_M  
 ClientSampled :  
 D9Y44

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 117804 |       |       |
| 101     | 7.9   | 6.5    | 9.7   |       |
| 100     | 6.7   | 5.4    | 8.2   |       |

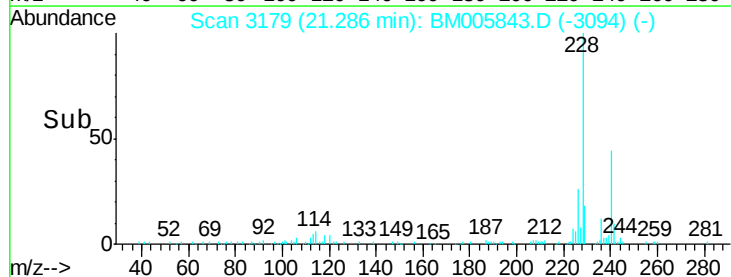
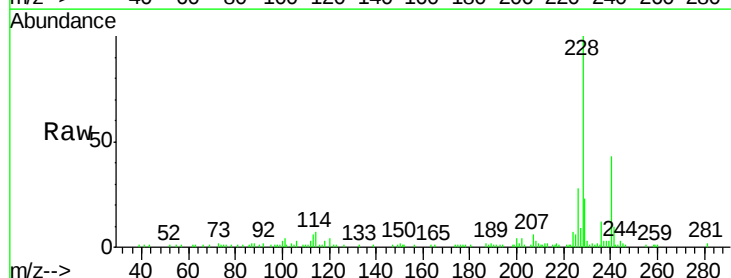
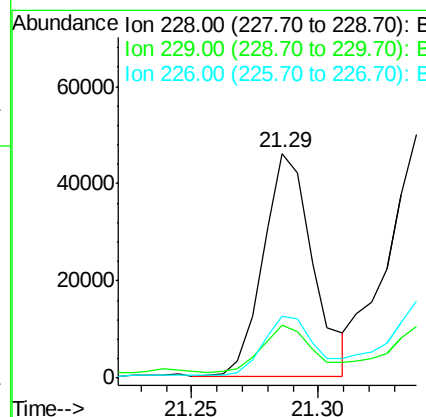
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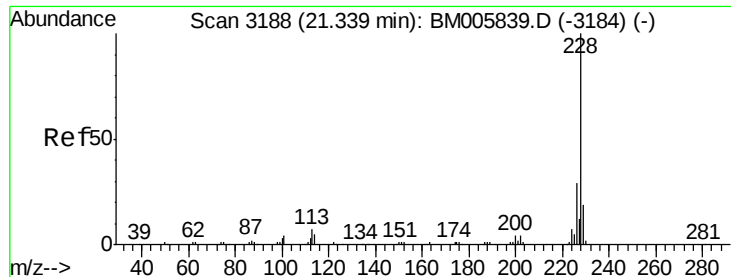
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#32  
 Benzo(a)anthracene  
 Concen: 4.47 ng/ul  
 RT: 21.29 min Scan# 3179  
 Delta R.T. 0.00 min  
 Lab File: BM005843.D  
 Acq: 17 Jun 2016 00:26

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 228     | 100   | 62667 |       |       |
| 229     | 23.4  | 15.8  | 23.6  |       |
| 226     | 27.6  | 21.8  | 32.6  |       |





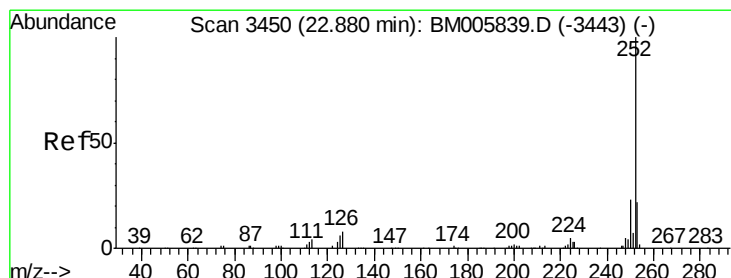
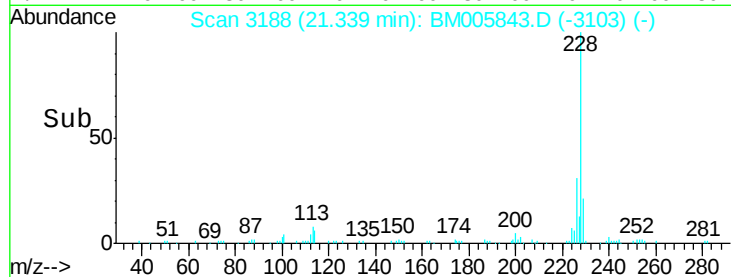
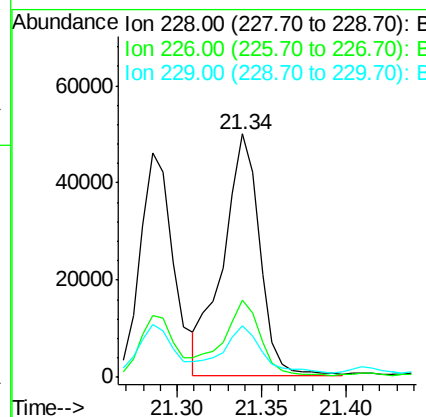
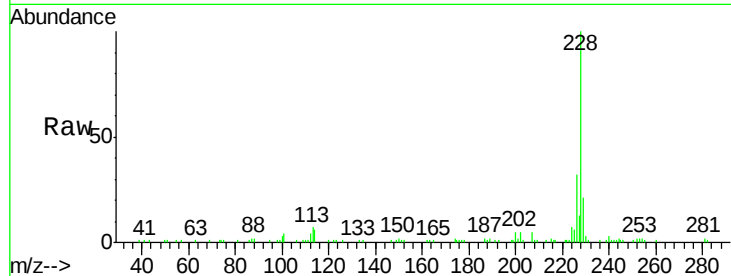
#33  
**Chrysene**  
 Concen: 5.56 ng/ul  
 RT: 21.34 min Scan# 3188  
 Delta R.T. 0.00 min  
 Lab File: BM005843.D  
 Acq: 17 Jun 2016 00:26

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9Y44

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 75039 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.6  | 23.5  | 35.3  |
| 229       | 21.4  | 15.4  | 23.0  |

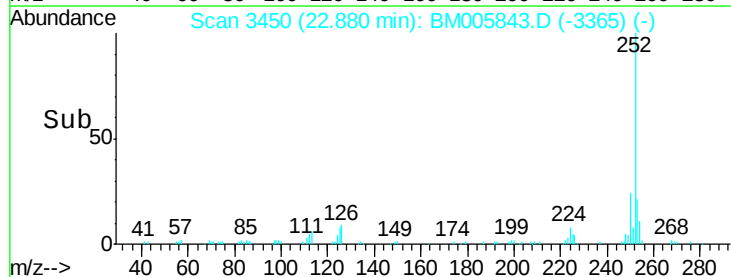
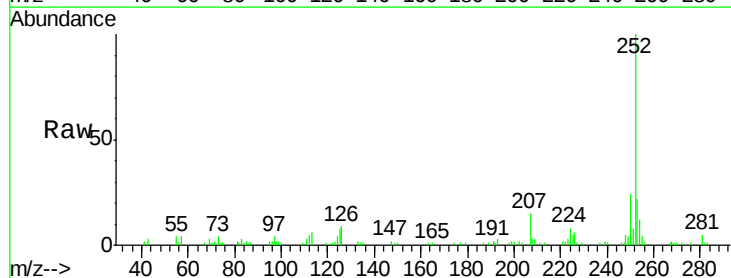
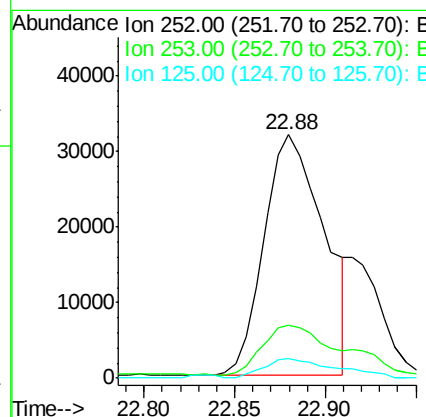
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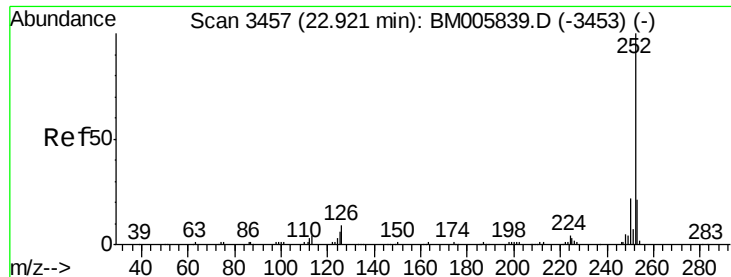
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#35  
**Benzo(b)fluoranthene**  
 Concen: 5.14 ng/ul  
 RT: 22.88 min Scan# 3450  
 Delta R.T. 0.00 min  
 Lab File: BM005843.D  
 Acq: 17 Jun 2016 00:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 73343 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 21.9  | 17.1  | 25.7  |
| 125       | 8.0   | 4.9   | 7.3#  |





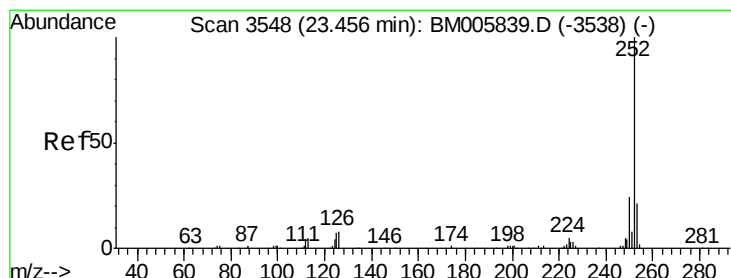
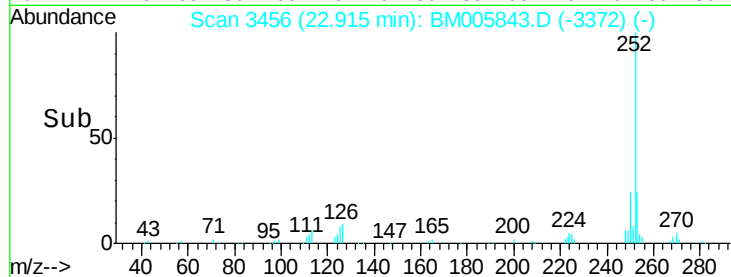
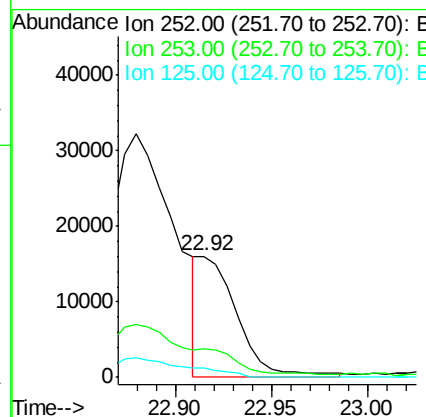
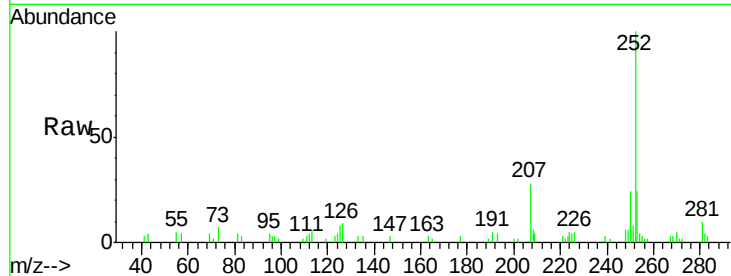
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Benzo(k)fluoranthene  
Concen: 1.58 ng/ul m  
RT: 22.92 min Scan# 3456  
Delta R.T. -0.01 min  
Lab File: BM005843.D  
Acq: 17 Jun 2016 00:26

Instrument :  
BNA\_M  
ClientSampleId :  
D9Y44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 17.5  | 26.3  |
| 125     | 7.5   | 4.8   | 7.2#  |

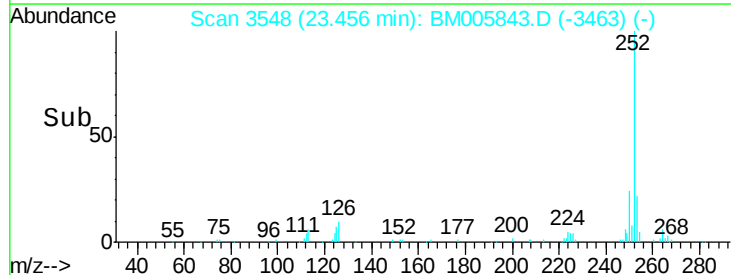
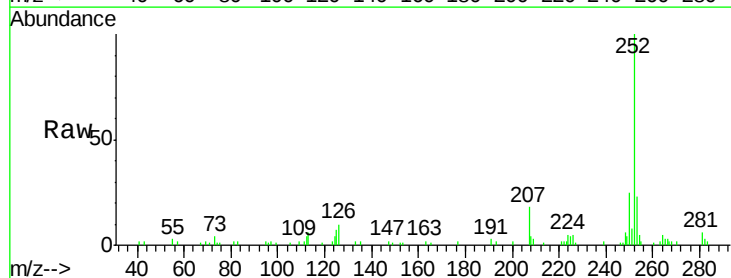
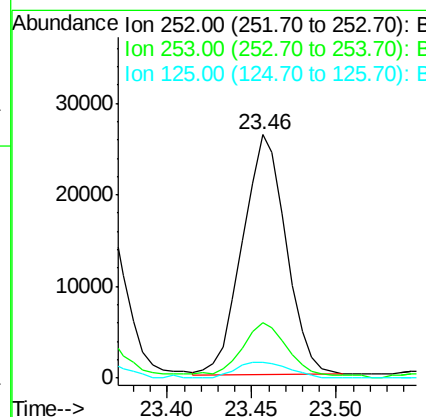
Manual Integrations  
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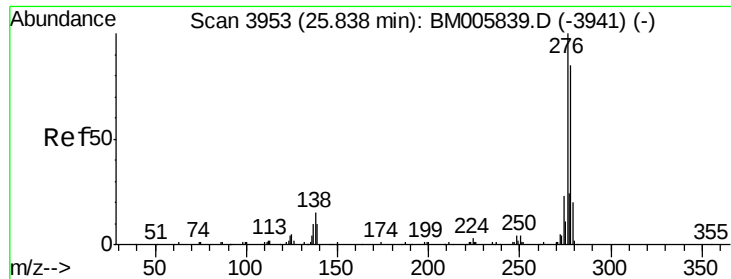
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#38  
Benzo(a)pyrene  
Concen: 3.36 ng/ul  
RT: 23.46 min Scan# 3548  
Delta R.T. 0.00 min  
Lab File: BM005843.D  
Acq: 17 Jun 2016 00:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 18.0  | 27.0  |
| 125     | 6.7   | 5.1   | 7.7   |





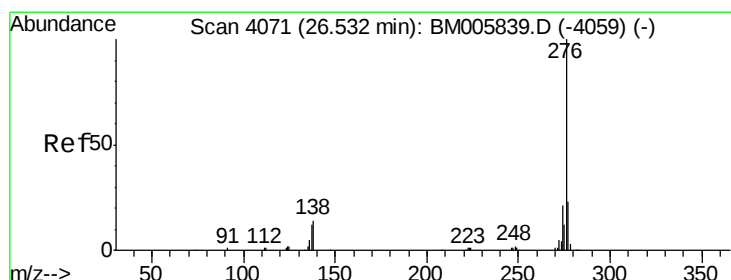
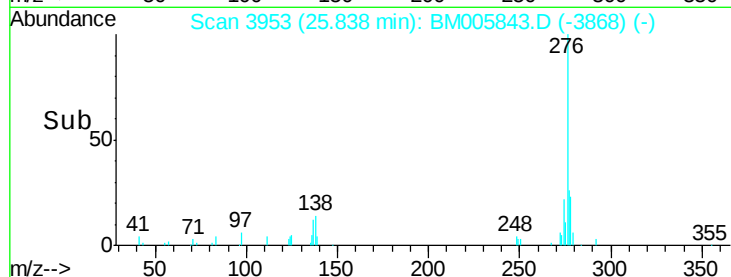
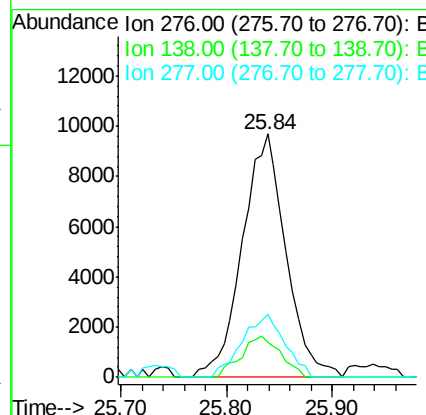
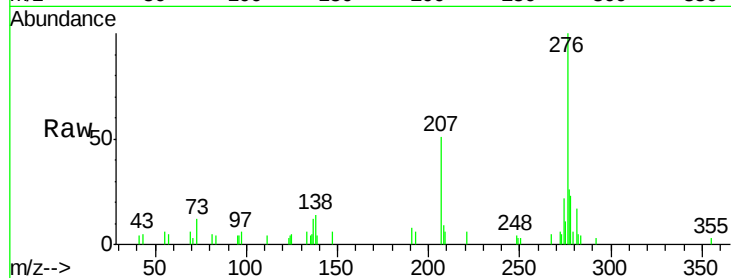
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 Indeno(1,2,3-cd)pyrene  
 Concen: 1.62 ng/u1  
 RT: 25.84 min Scan# 3953  
 Delta R.T. 0.00 min  
 Lab File: BM005843.D  
 Acq: 17 Jun 2016 00:26

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9Y44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 14.1  | 11.9  | 17.9  |
| 277     | 26.0  | 21.0  | 31.6  |

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#41  
 Benzo(g,h,i)perylene  
 Concen: 1.77 ng/u1  
 RT: 26.53 min Scan# 4071  
 Delta R.T. 0.00 min  
 Lab File: BM005843.D  
 Acq: 17 Jun 2016 00:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 14.6  | 10.6  | 15.8  |
| 277     | 22.0  | 19.6  | 29.4  |

