

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM072216\  
 Data File : BM006622.D  
 Acq On : 22 Jul 2016 12:57  
 Operator : UM/SJ  
 Sample : H4077-06 2X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9YR0

## Manual Integrations

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 7/25/2016 6:39:48 PM

Quant Time: Jul 23 00:35:13 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM072016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Jul 23 00:16:38 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.62  | 152  | 186399   | 20.00 | ng/ul | 0.00     |
| 7) Naphthalene-d8         | 10.39 | 136  | 793458   | 20.00 | ng/ul | 0.00     |
| 15) Acenaphthene-d10      | 14.27 | 164  | 439551   | 20.00 | ng/ul | 0.00     |
| 23) Phenanthrene-d10      | 17.02 | 188  | 982976   | 20.00 | ng/ul | 0.00     |
| 29) Chrysene-d12          | 21.22 | 240  | 1080035  | 20.00 | ng/ul | 0.00     |
| 34) Perylene-d12          | 23.43 | 264  | 1126820  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 2) 1,4-Dioxane-d8              | 3.14  | 96  | 3486   | 0.76  | ng/uL | 0.00 |
| 3) Phenol-d5                   | 6.80  | 99  | 129542 | 8.17  | ng/ul | 0.00 |
| 4) Bis-(2-Chloroethyl)ether-d  | 6.96  | 67  | 97501  | 9.93  | ng/ul | 0.00 |
| 5) 2-Chlorophenol-d4           | 7.15  | 132 | 115063 | 9.08  | ng/ul | 0.00 |
| 6) 4-Methylphenol-d8           | 8.33  | 113 | 77603  | 6.31  | ng/ul | 0.00 |
| 8) Nitrobenzene-d5             | 8.77  | 128 | 57587  | 9.59  | ng/ul | 0.00 |
| 9) 2-Nitrophenol-d4            | 9.49  | 143 | 60883  | 9.53  | ng/ul | 0.00 |
| 10) 2,4-Dichlorophenol-d3      | 10.03 | 165 | 110939 | 9.19  | ng/ul | 0.00 |
| 12) 4-Chloroaniline-d4         | 10.54 | 131 | 92019  | 6.92  | ng/ul | 0.00 |
| 16) Dimethylphthalate-d6       | 13.68 | 166 | 341361 | 9.90  | ng/ul | 0.00 |
| 17) Acenaphthylene-d8          | 13.96 | 160 | 446079 | 10.14 | ng/ul | 0.00 |
| 20) 4-Nitrophenol-d4           | 14.50 | 143 | 31127  | 5.20  | ng/ul | 0.01 |
| 21) Fluorene-d10               | 15.26 | 176 | 315669 | 10.24 | ng/ul | 0.00 |
| 24) 4,6-Dinitro-2-methylphenol | 15.40 | 200 | 17757  | 3.48  | ng/ul | 0.00 |
| 26) Anthracene-d10             | 17.12 | 188 | 485586 | 10.40 | ng/ul | 0.00 |
| 30) Pyrene-d10                 | 19.42 | 212 | 542717 | 11.03 | ng/ul | 0.00 |
| 37) Benzo(a)pyrene-d12         | 23.29 | 264 | 544593 | 10.51 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |         |       |        | Qvalue |
|----------------------------|-------|-----|---------|-------|--------|--------|
| 25) Phenanthrene           | 17.06 | 178 | 381342  | 6.90  | ng/ul  | 98     |
| 27) Anthracene             | 17.15 | 178 | 94651   | 1.66  | ng/ul  | 97     |
| 28) Fluoranthene           | 19.09 | 202 | 988466  | 15.22 | ng/ul  | 98     |
| 31) Pyrene                 | 19.45 | 202 | 838439  | 12.82 | ng/ul  | 97     |
| 32) Benzo(a)anthracene     | 21.20 | 228 | 491873  | 7.51  | ng/ul  | 97     |
| 33) Chrysene               | 21.26 | 228 | 476287  | 7.89  | ng/ul  | 95     |
| 35) Benzo(b)fluoranthene   | 22.77 | 252 | 685507  | 10.15 | ng/ul  | 99     |
| 36) Benzo(k)fluoranthene   | 22.80 | 252 | 199436m | 3.05  | ng/ul  |        |
| 38) Benzo(a)pyrene         | 23.33 | 252 | 495293  | 7.53  | ng/ul  | 97     |
| 39) Indeno(1,2,3-cd)pyrene | 25.64 | 276 | 439926  | 5.78  | ng/ul  | 95     |
| 40) Dibenzo(a,h)anthracene | 25.63 | 278 | 223019  | 3.53  | ng/ul# | 86     |
| 41) Benzo(g,h,i)perylene   | 26.32 | 276 | 550786  | 8.44  | ng/ul# | 96     |

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

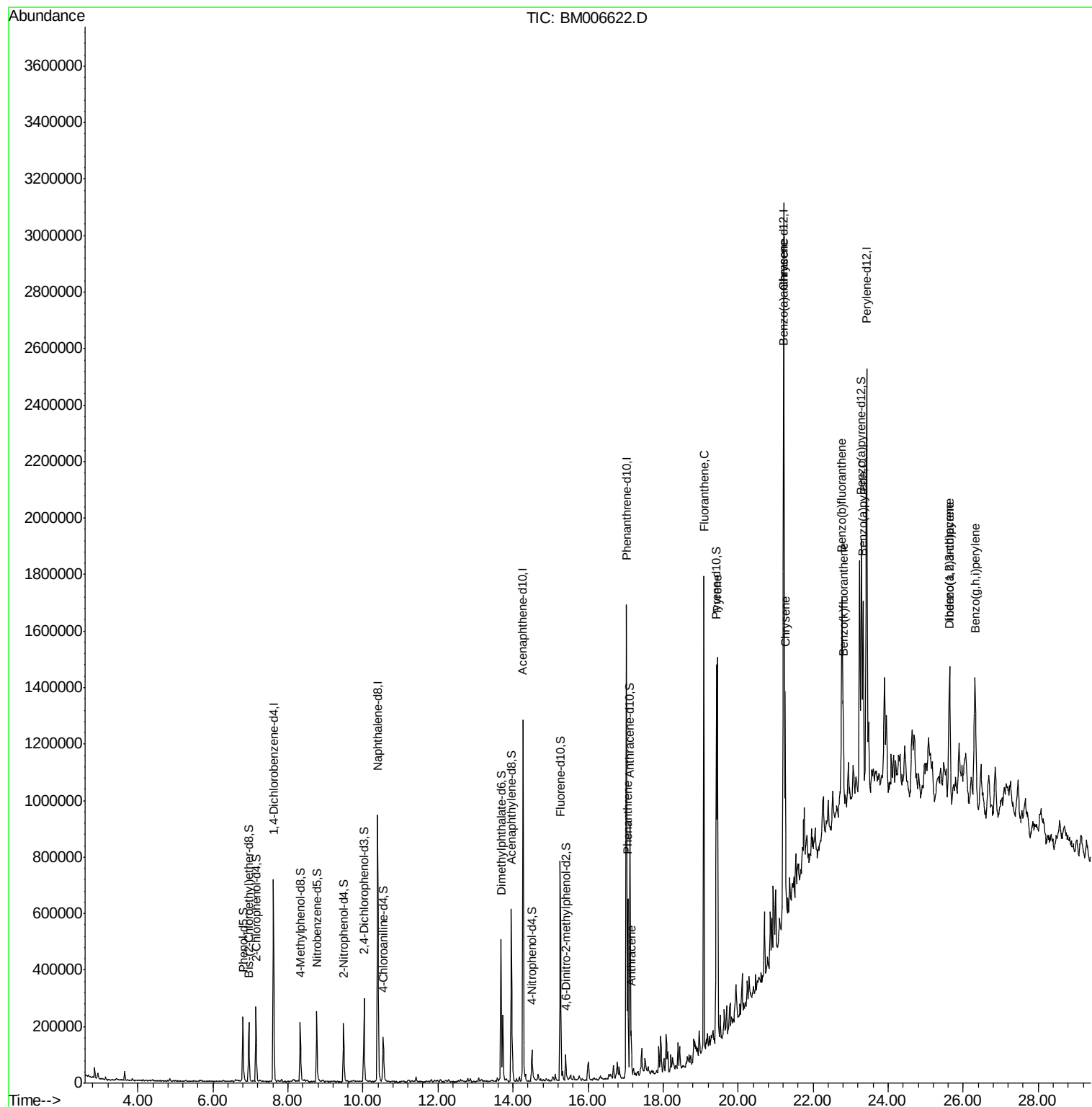
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM072216\  
Data File : BM006622.D  
Acq On : 22 Jul 2016 12:57  
Operator : UM/SJ  
Sample : H4077-06 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

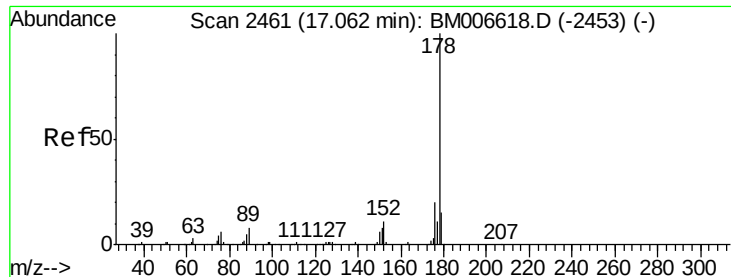
Instrument :  
BNA\_M  
ClientSampleId :  
D9YR0

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Quant Time: Jul 23 00:35:13 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM072016.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Jul 23 00:16:38 2016  
Response via : Initial Calibration





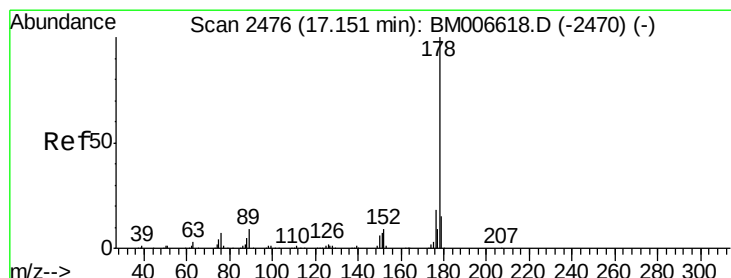
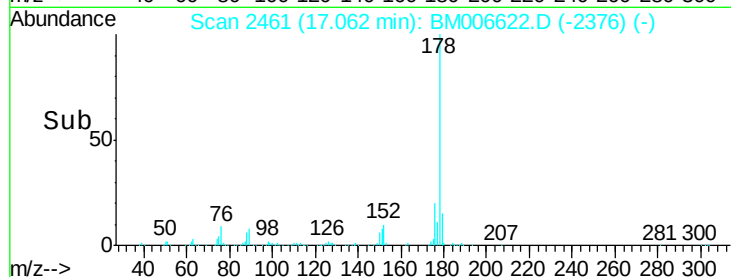
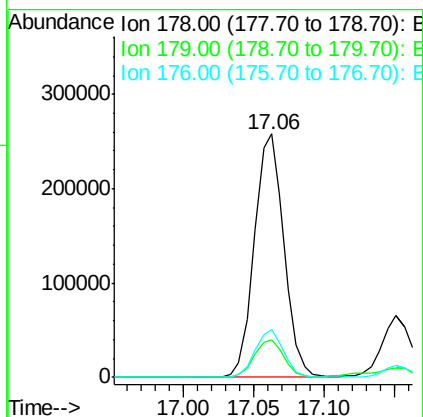
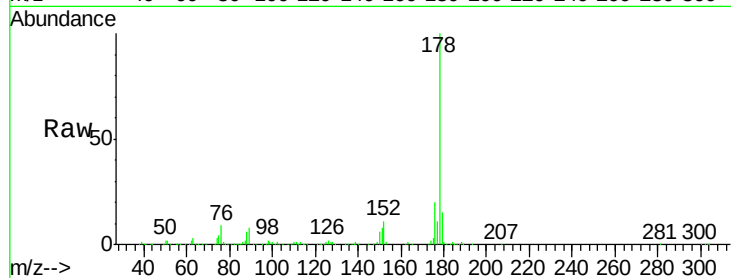
#25  
Phenanthrene  
Concen: 6.90 ng/ul  
RT: 17.06 min Scan# 2461  
Delta R.T. 0.00 min  
Lab File: BM006622.D  
Acq: 22 Jul 2016 12:57

Instrument :  
BNA\_M  
ClientSampleId :  
D9YR0

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.3  | 11.8  | 17.8  |
| 176     | 19.8  | 14.8  | 22.2  |

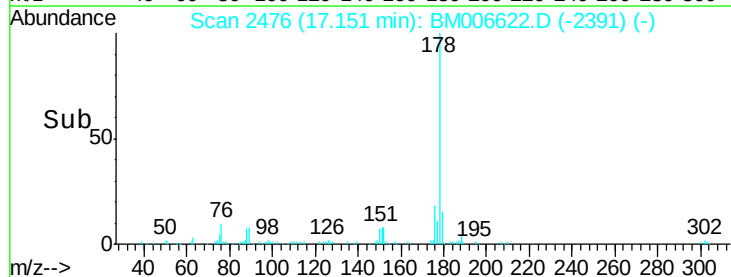
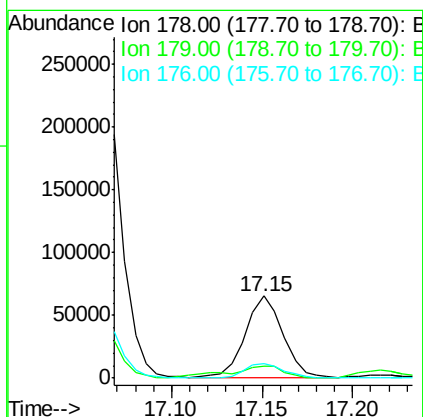
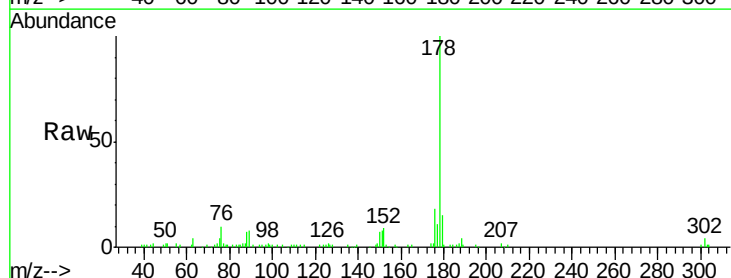
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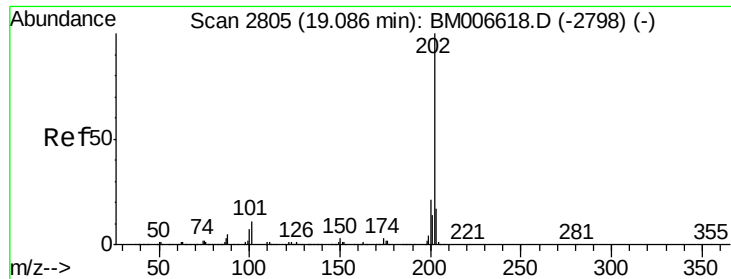
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#27  
Anthracene  
Concen: 1.66 ng/ul  
RT: 17.15 min Scan# 2476  
Delta R.T. 0.00 min  
Lab File: BM006622.D  
Acq: 22 Jul 2016 12:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 14.7  | 12.9  | 19.3  |
| 176     | 18.4  | 15.6  | 23.4  |





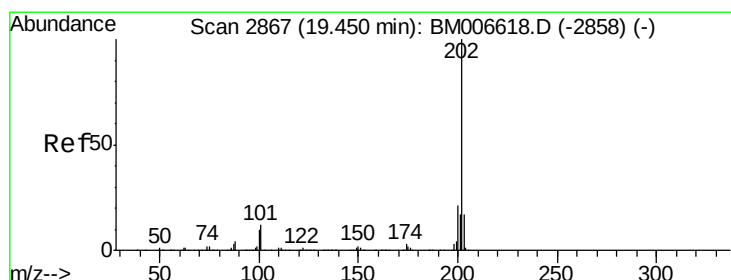
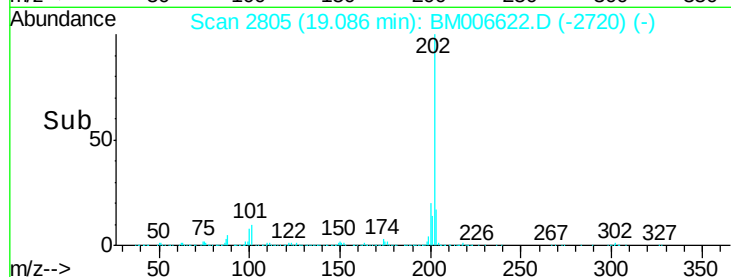
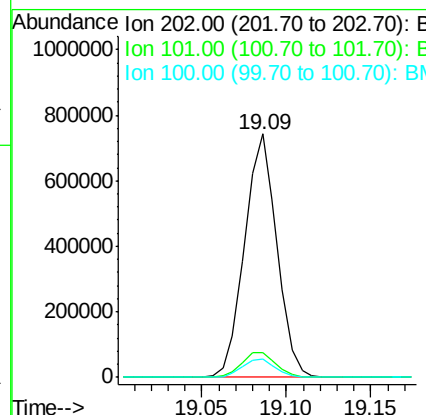
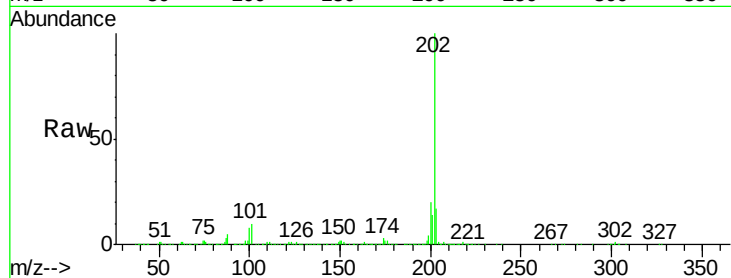
#28  
Fluoranthene  
Concen: 15.22 ng/ul  
RT: 19.09 min Scan# 2805  
Delta R.T. 0.00 min  
Lab File: BM006622.D  
Acq: 22 Jul 2016 12:57

Instrument :  
BNA\_M  
ClientSampleId :  
D9YR0

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 10.3  | 8.9        | 13.3       |
| 100     | 7.7   | 7.0        | 10.4       |

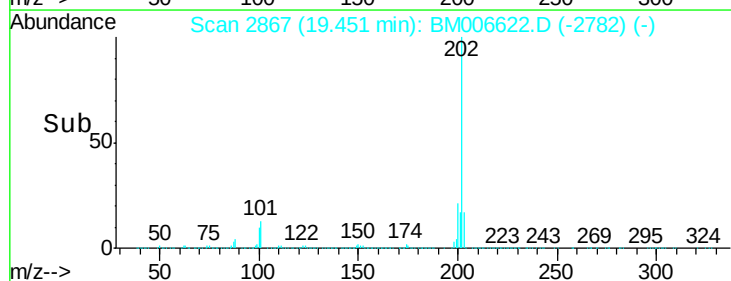
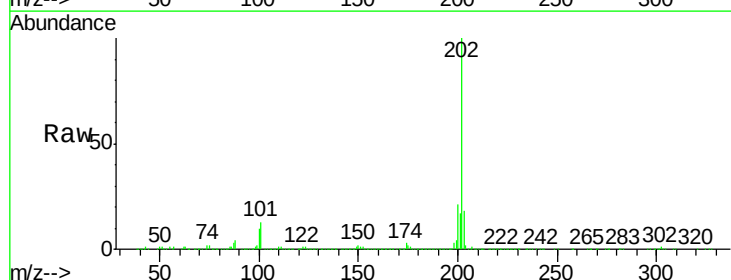
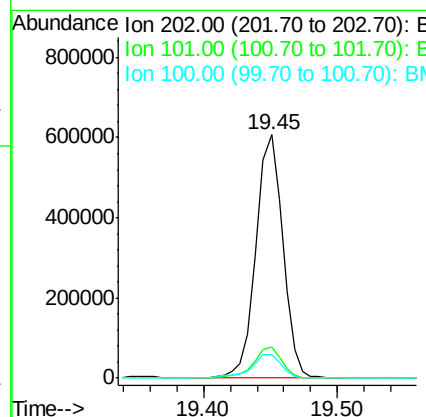
Manual Integrations

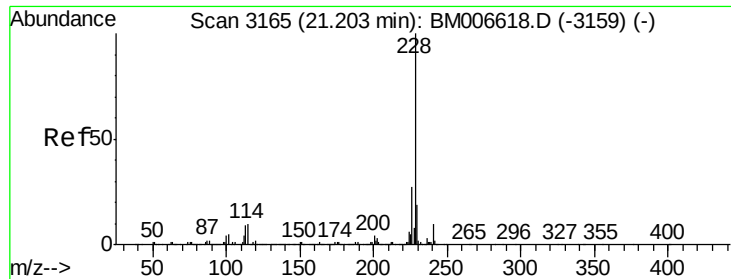
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#31  
Pyrene  
Concen: 12.82 ng/ul  
RT: 19.45 min Scan# 2867  
Delta R.T. 0.00 min  
Lab File: BM006622.D  
Acq: 22 Jul 2016 12:57

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 12.7  | 9.8        | 14.8       |
| 100     | 9.8   | 9.3        | 13.9       |





#32

Benzo(a)anthracene

Concen: 7.51 ng/ul

RT: 21.20 min Scan# 3165

Delta R.T. 0.00 min

Lab File: BM006622.D

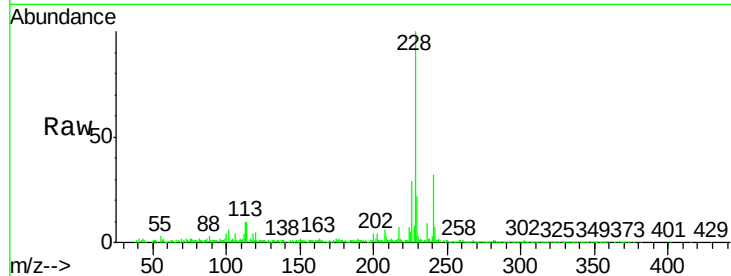
Acq: 22 Jul 2016 12:57

Instrument :

BNA\_M

ClientSampleId :

D9YR0

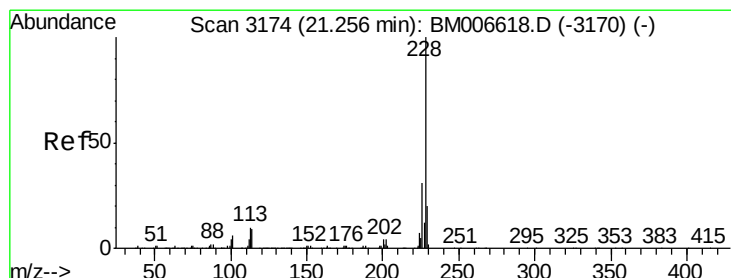
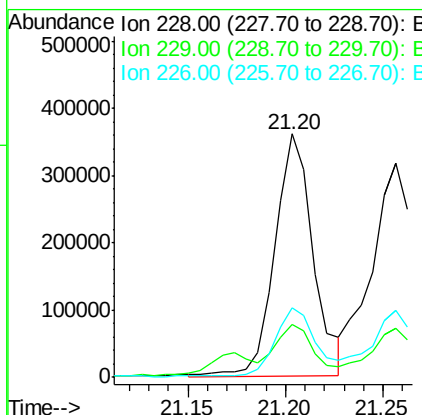
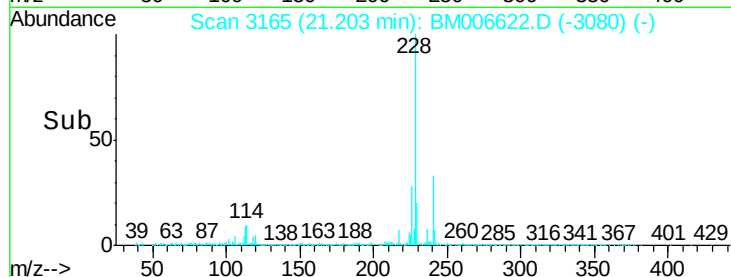


| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.7  | 16.6  | 25.0  |
| 226     | 28.5  | 21.0  | 31.4  |

Manual Integrations

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#33

Chrysene

Concen: 7.89 ng/ul

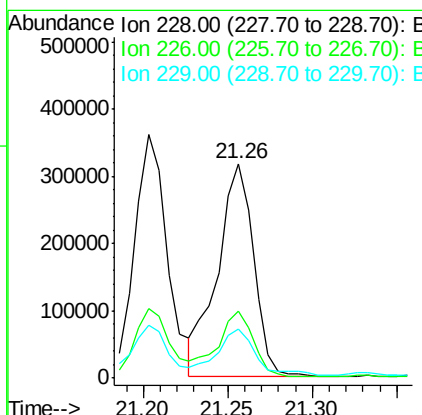
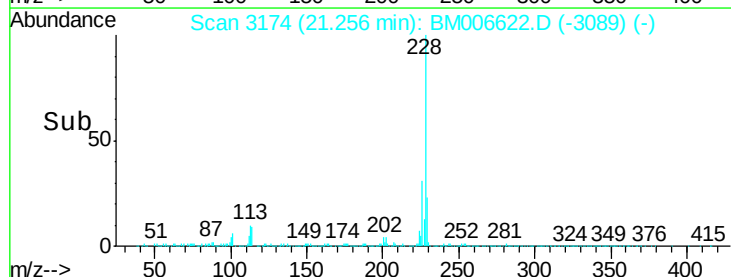
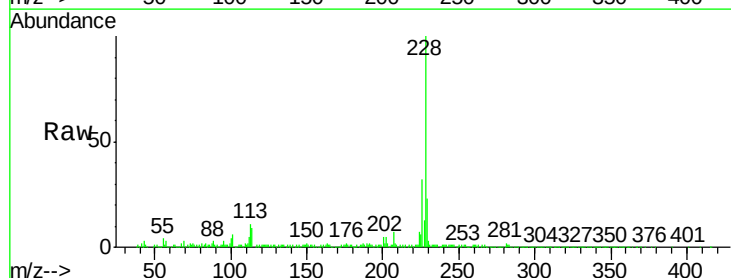
RT: 21.26 min Scan# 3174

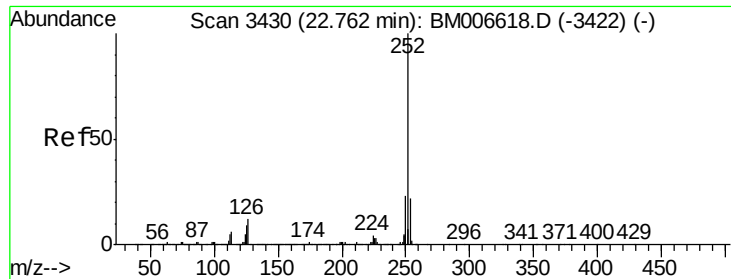
Delta R.T. 0.00 min

Lab File: BM006622.D

Acq: 22 Jul 2016 12:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.5  | 23.4  | 35.2  |
| 229     | 22.9  | 16.2  | 24.2  |





#35

Benzo(b)fluoranthene

Concen: 10.15 ng/ul

RT: 22.77 min Scan# 3431

Delta R.T. 0.01 min

Lab File: BM006622.D

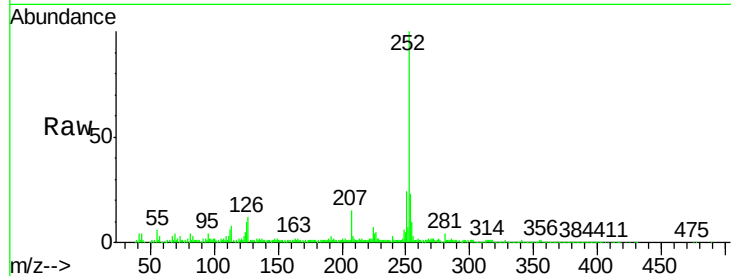
Acq: 22 Jul 2016 12:57

Instrument :

BNA\_M

ClientSampleId :

D9YR0

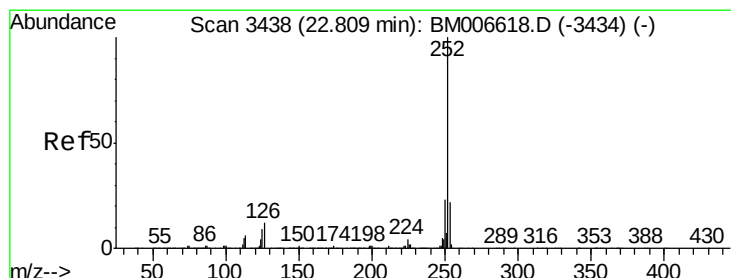
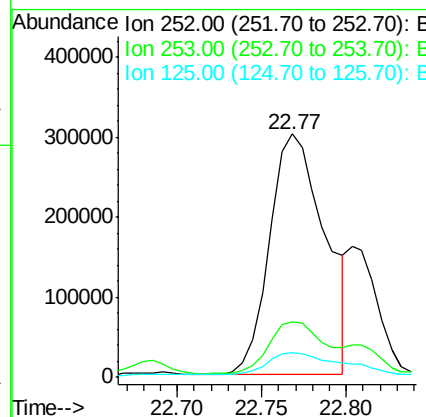


| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 18.1  | 27.1  |
| 125     | 10.4  | 7.6   | 11.4  |

Manual Integrations

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#36

Benzo(k)fluoranthene

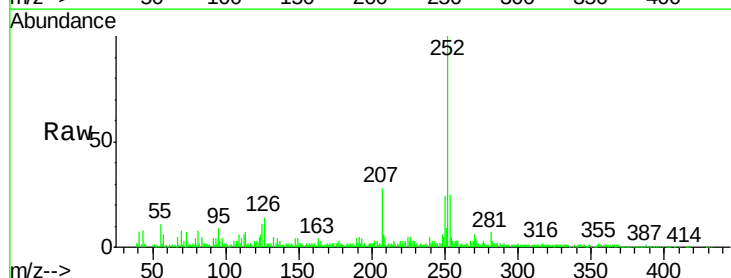
Concen: 3.05 ng/ul m

RT: 22.80 min Scan# 3437

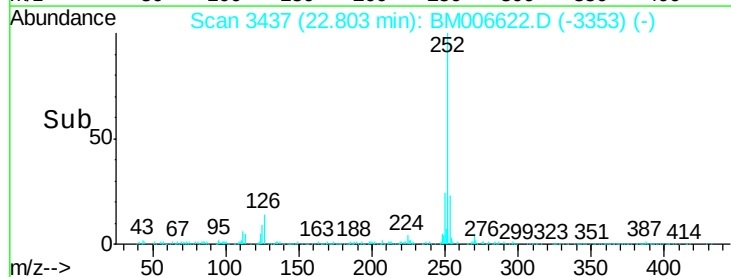
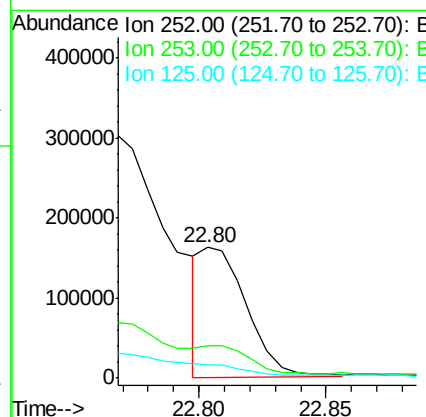
Delta R.T. -0.01 min

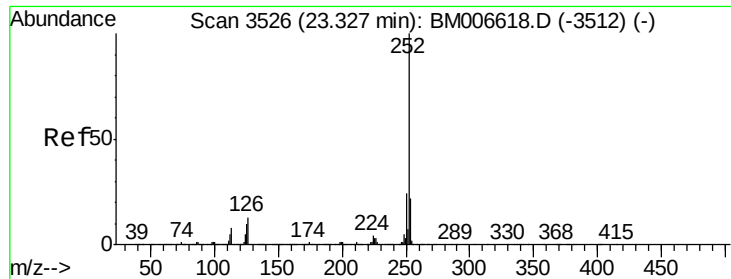
Lab File: BM006622.D

Acq: 22 Jul 2016 12:57



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.2  | 17.8  | 26.8  |
| 125     | 10.5  | 7.7   | 11.5  |





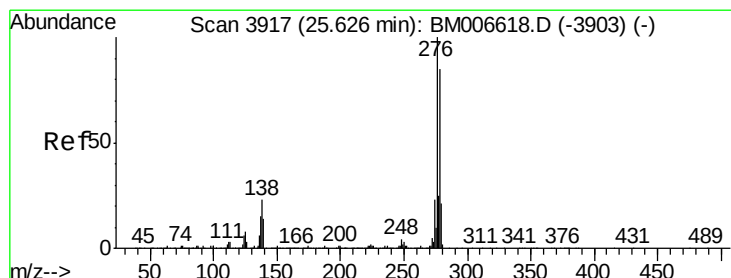
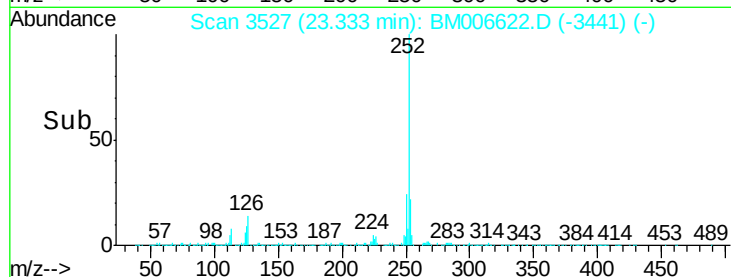
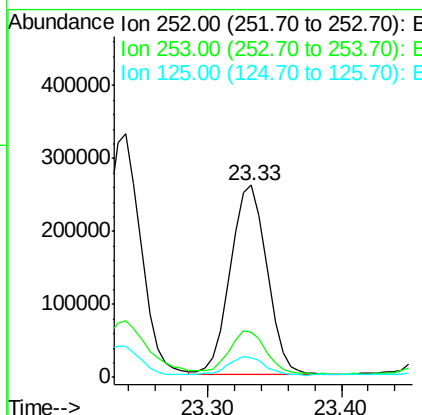
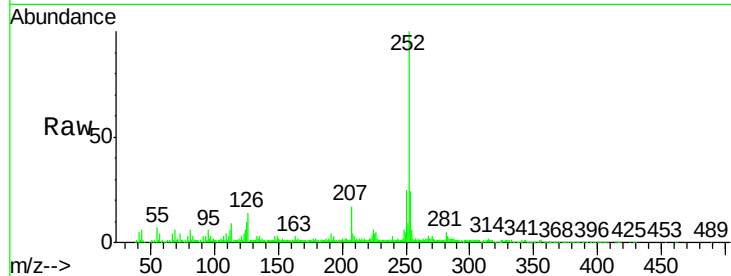
#38  
Benzo(a)pyrene  
Concen: 7.53 ng/ul  
RT: 23.33 min Scan# 3527  
Delta R.T. 0.01 min  
Lab File: BM006622.D  
Acq: 22 Jul 2016 12:57

Instrument :  
BNA\_M  
ClientSampleId :  
D9YR0

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 17.4  | 26.0  |
| 125     | 10.5  | 8.2   | 12.2  |

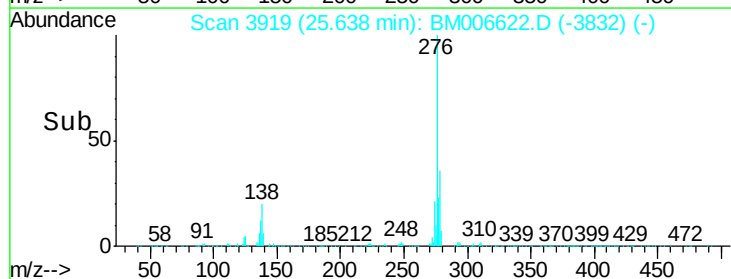
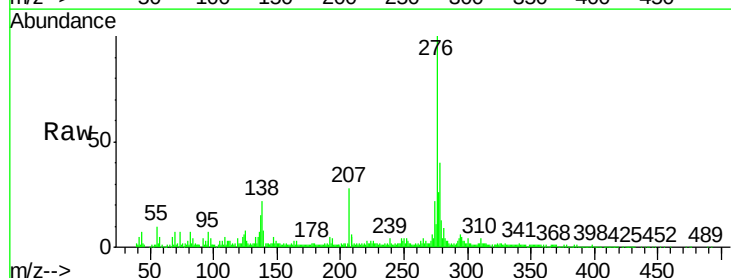
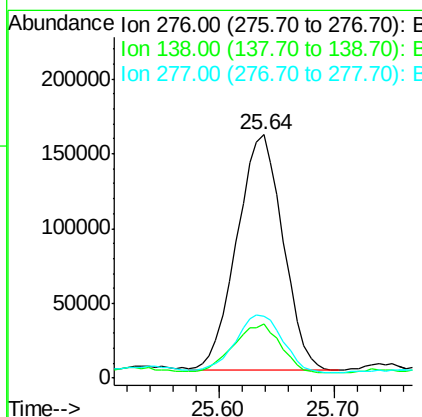
Manual Integrations

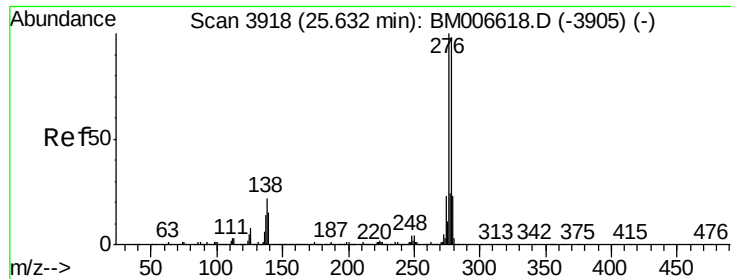
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#39  
Indeno(1,2,3-cd)pyrene  
Concen: 5.78 ng/ul  
RT: 25.64 min Scan# 3919  
Delta R.T. 0.01 min  
Lab File: BM006622.D  
Acq: 22 Jul 2016 12:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.3  | 15.8  | 23.6  |
| 277     | 25.7  | 19.0  | 28.6  |





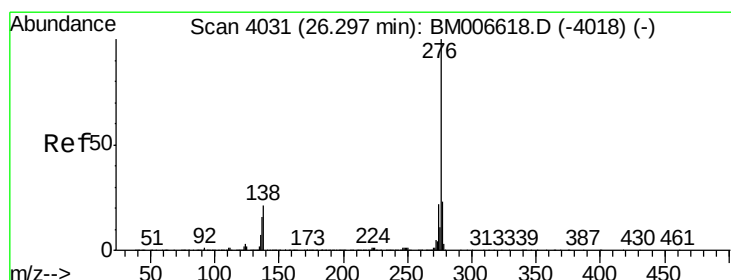
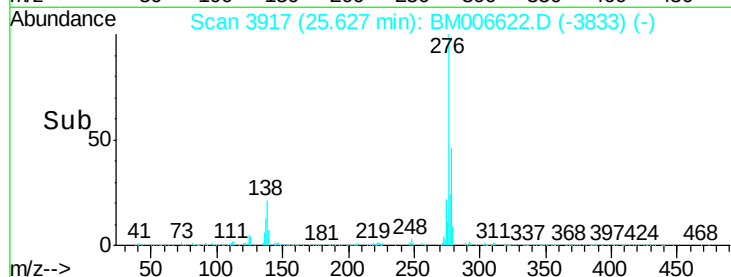
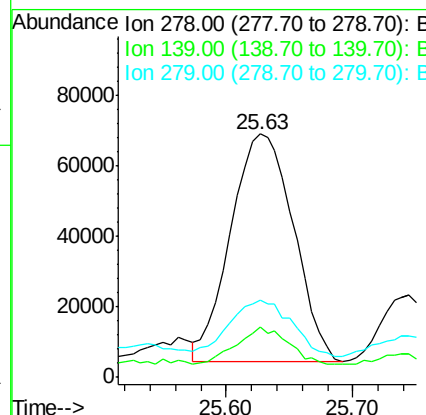
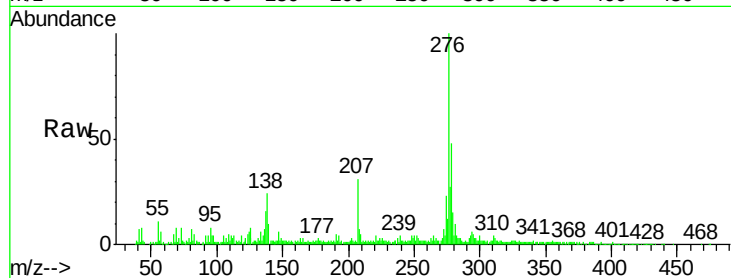
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Dibenzo(a,h)anthracene  
Concen: 3.53 ng/ul  
RT: 25.63 min Scan# 3917  
Delta R.T. -0.01 min  
Lab File: BM006622.D  
Acq: 22 Jul 2016 12:57

Instrument :  
BNA\_M  
ClientSampleId :  
D9YR0

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 20.7  | 12.1  | 18.1# |
| 279     | 31.9  | 19.8  | 29.8# |

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#41  
Benzo(g,h,i)perylene  
Concen: 8.44 ng/ul  
RT: 26.32 min Scan# 4035  
Delta R.T. 0.02 min  
Lab File: BM006622.D  
Acq: 22 Jul 2016 12:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.9  | 13.9  | 20.9# |
| 277     | 25.2  | 19.8  | 29.6  |

