

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM081916\  
 Data File : BM007215.D  
 Acq On : 18 Aug 2016 21:51  
 Operator : UM/SJ  
 Sample : H4445-11  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 E5N30

Manual Integrations  
 APPROVED

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 8/19/2016 6:41:23 PM

Quant Time: Aug 19 05:33:10 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM081116.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Aug 19 04:48:28 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.80  | 152  | 287501   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.59 | 136  | 1164808  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.43 | 164  | 676404   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.17 | 188  | 1601852  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.36 | 240  | 2045671  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.63 | 264  | 2086218  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.32  | 96  | 23649   | 3.59  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.97  | 99  | 489900  | 21.03 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.14  | 67  | 290266  | 21.74 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.33  | 132 | 398677  | 21.49 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.50  | 113 | 344408  | 17.97 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.96  | 128 | 194825  | 23.03 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.67  | 143 | 214416  | 23.72 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.20 | 165 | 407198  | 21.51 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.72 | 131 | 212942  | 9.45  | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.85 | 166 | 1276424 | 22.84 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.13 | 160 | 1556760 | 23.19 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.63 | 143 | 201553  | 20.12 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.43 | 176 | 1121281 | 22.95 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.54 | 200 | 148645  | 16.79 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.27 | 188 | 1769582 | 23.85 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.57 | 212 | 2159563 | 25.01 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.49 | 264 | 2334231 | 24.46 | ng/ul | 0.00 |

## Target Compounds

|                          |       |     |         |      |        | Qvalue |
|--------------------------|-------|-----|---------|------|--------|--------|
| 44) Dimethylphthalate    | 13.89 | 163 | 458307  | 8.20 | ng/ul  | 98     |
| 69) Phenanthrene         | 17.22 | 178 | 104409  | 1.21 | ng/ul  | 98     |
| 74) Fluoranthene         | 19.23 | 202 | 278184  | 2.66 | ng/ul  | 100    |
| 77) Pyrene               | 19.60 | 202 | 247538  | 2.19 | ng/ul  | 97     |
| 80) Benzo(a)anthracene   | 21.34 | 228 | 167525  | 1.39 | ng/ul  | 93     |
| 82) Chrysene             | 21.39 | 228 | 196710m | 1.78 | ng/ul  |        |
| 85) Benzo(b)fluoranthene | 22.94 | 252 | 219478  | 1.75 | ng/ul# | 95     |
| 88) Benzo(a)pyrene       | 23.53 | 252 | 150195  | 1.26 | ng/ul  | 99     |

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

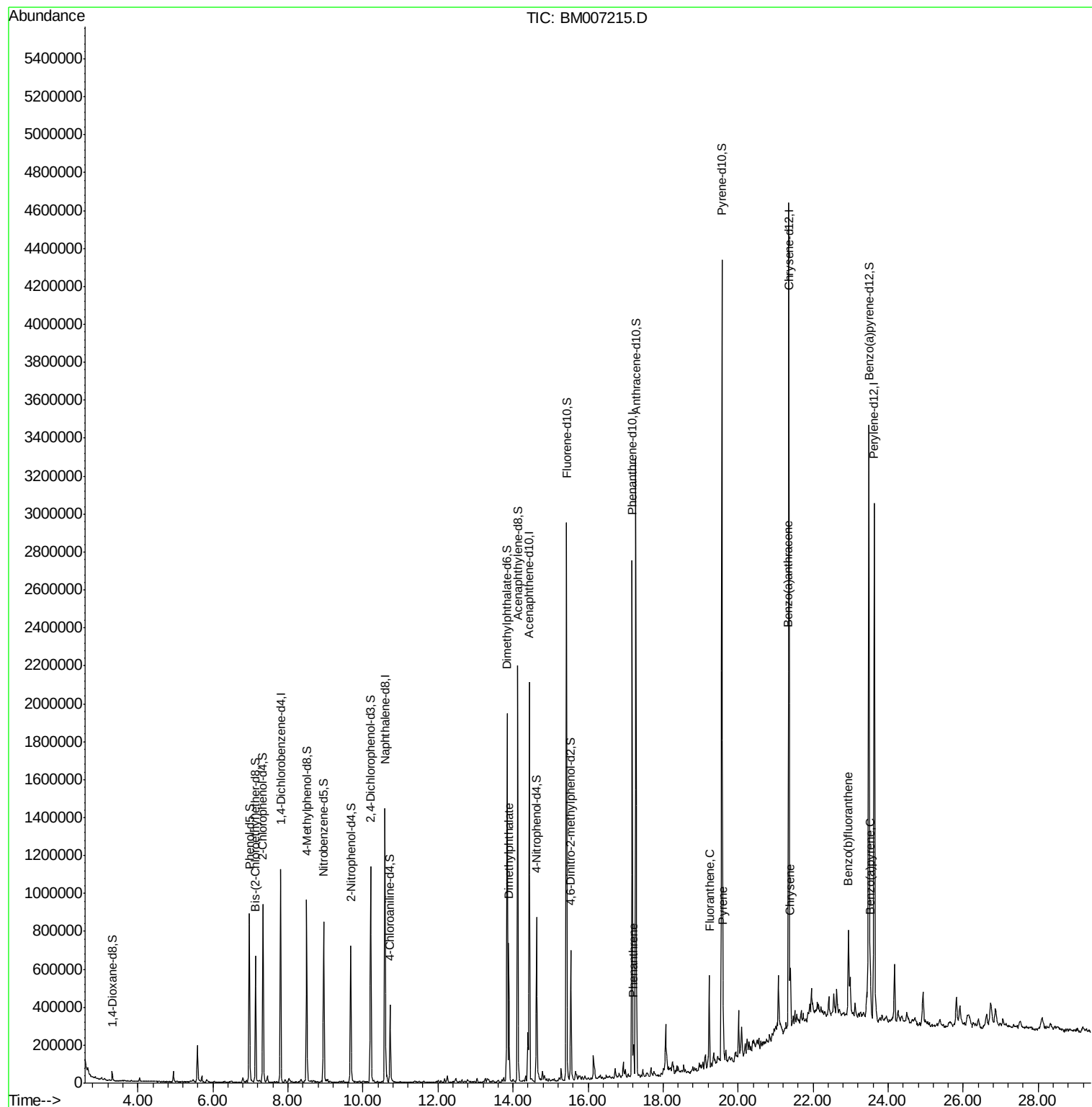
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM081916\  
Data File : BM007215.D  
Acq On : 18 Aug 2016 21:51  
Operator : UM/SJ  
Sample : H4445-11  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

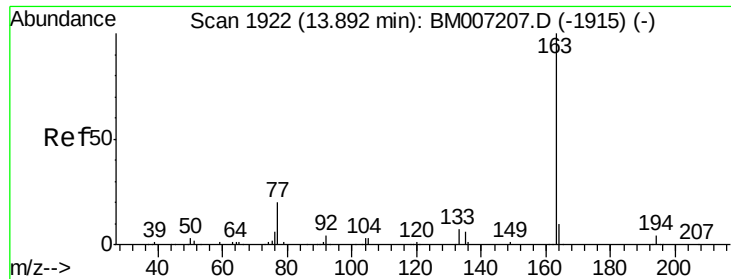
Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Time: Aug 19 05:33:10 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM081116.M  
Quant Title : SVOA CALIBRATION  
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Response via : Initial Calibration





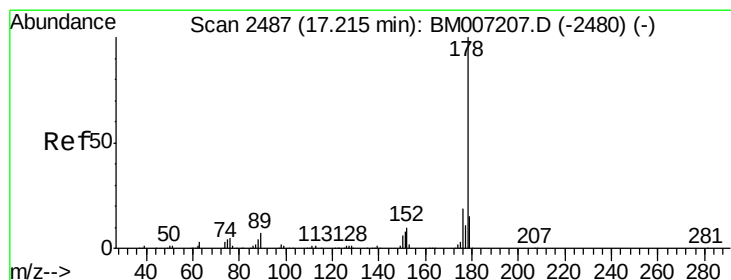
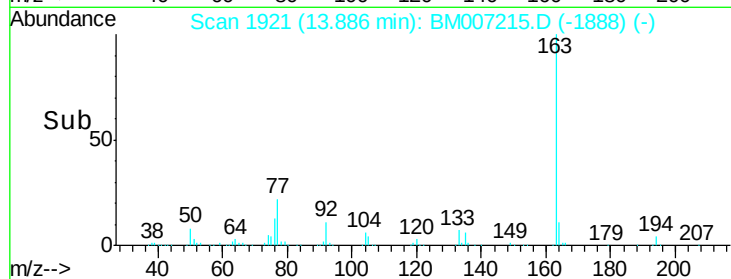
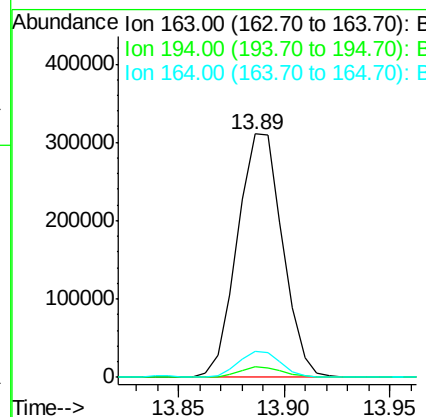
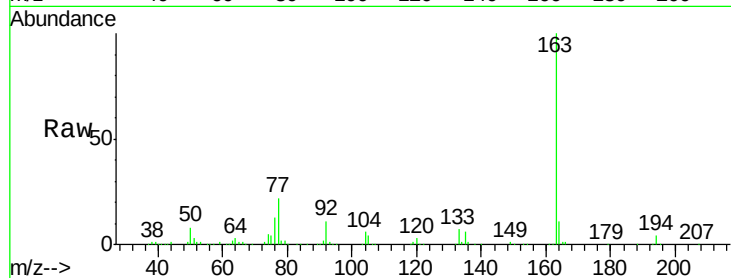
#44  
Dimethylphthalate  
Concen: 8.20 ng/ul  
RT: 13.89 min Scan# 1921  
Delta R.T. -0.01 min  
Lab File: BM007215.D  
Acq: 18 Aug 2016 21:51

Instrument :  
BNA\_M  
ClientSampleId :  
E5N30

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 458307 |       |       |
| 194     | 4.2   |        | 3.4   | 5.2   |
| 164     | 10.6  |        | 7.8   | 11.8  |

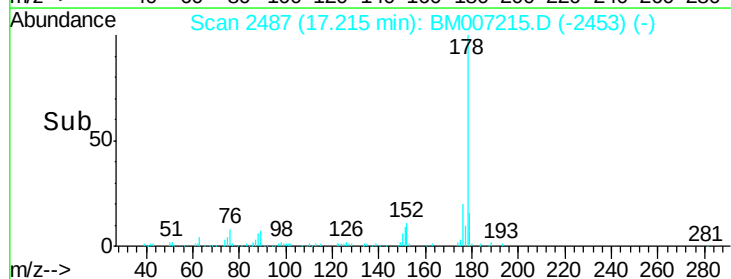
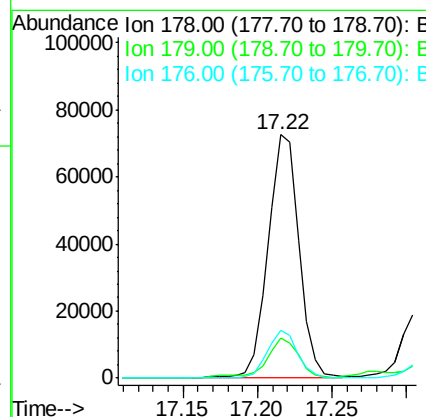
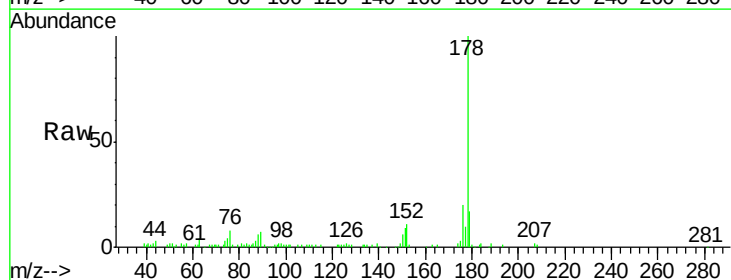
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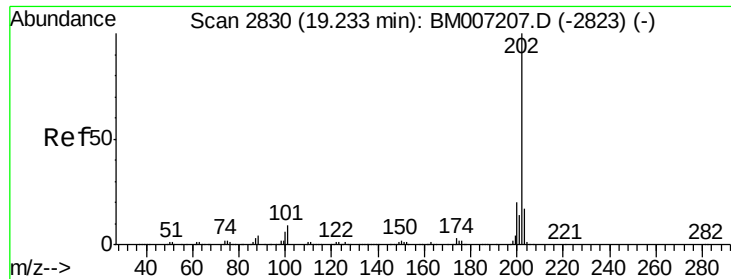
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#69  
Phenanthrene  
Concen: 1.21 ng/ul  
RT: 17.22 min Scan# 2487  
Delta R.T. 0.00 min  
Lab File: BM007215.D  
Acq: 18 Aug 2016 21:51

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 104409 |       |       |
| 179     | 16.6  |        | 12.2  | 18.2  |
| 176     | 19.5  |        | 15.1  | 22.7  |





#74

Fluoranthene

Concen: 2.66 ng/ul

RT: 19.23 min Scan# 2830

Delta R.T. 0.00 min

Lab File: BM007215.D

Acq: 18 Aug 2016 21:51

Instrument :

BNA\_M

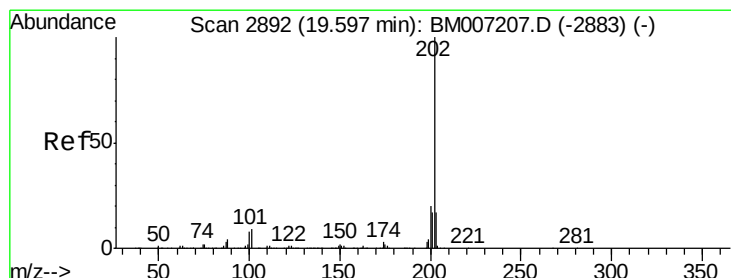
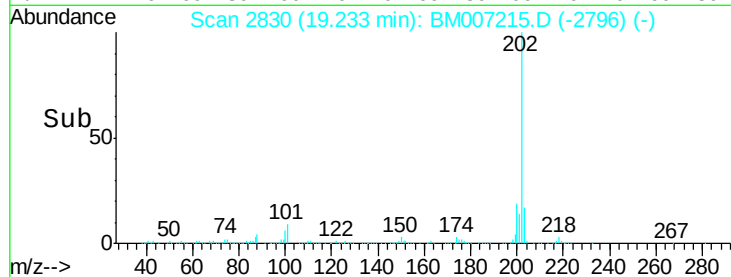
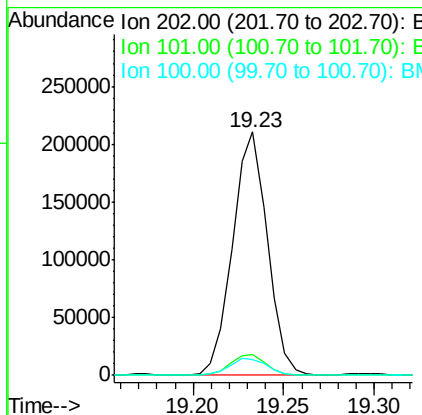
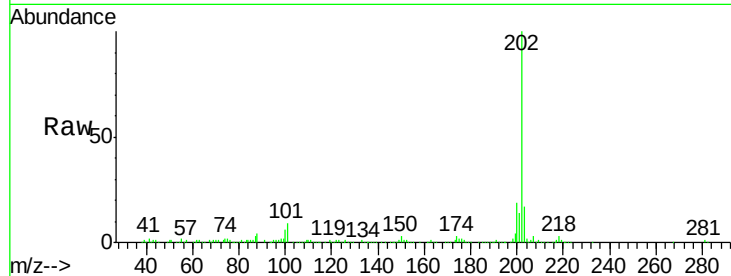
ClientSampled :

E5N30

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 278184 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 8.6   | 6.9   | 10.3   |
| 100       | 6.4   | 5.4   | 8.0    |

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#77

Pyrene

Concen: 2.19 ng/ul

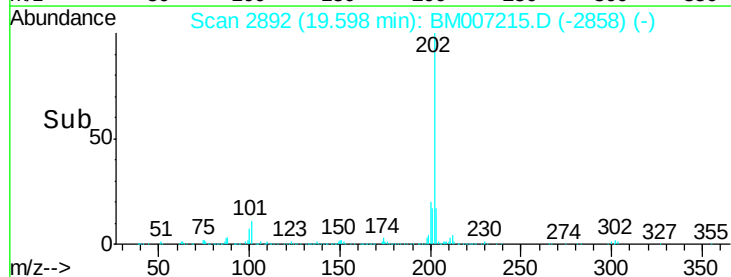
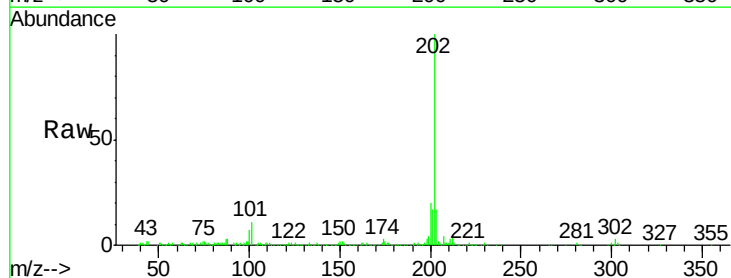
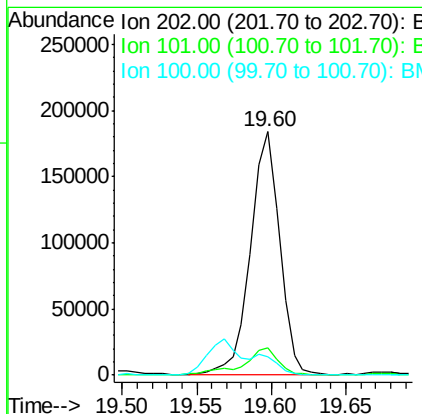
RT: 19.60 min Scan# 2892

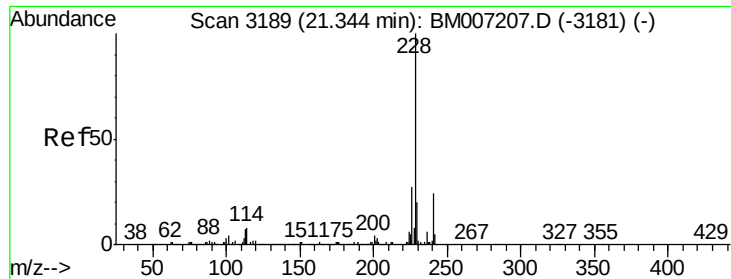
Delta R.T. 0.00 min

Lab File: BM007215.D

Acq: 18 Aug 2016 21:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 247538 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.3  | 8.4   | 12.6   |
| 100       | 7.4   | 6.9   | 10.3   |





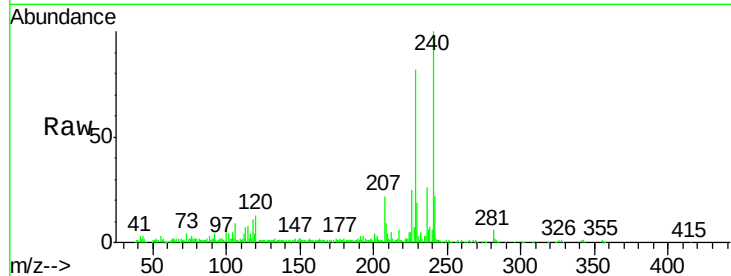
#80  
Benzo(a)anthracene  
Concen: 1.39 ng/ul  
RT: 21.34 min Scan# 3188  
Delta R.T. -0.01 min  
Lab File: BM007215.D  
Acq: 18 Aug 2016 21:51

Instrument :  
BNA\_M  
ClientSampleId :  
E5N30

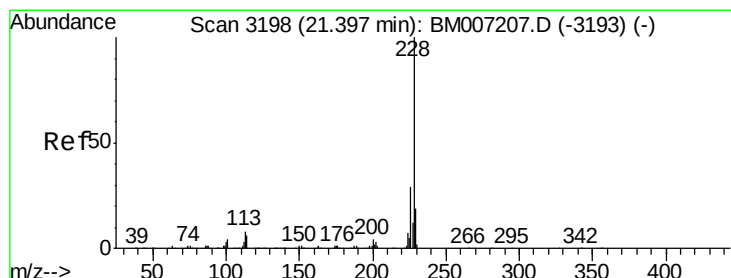
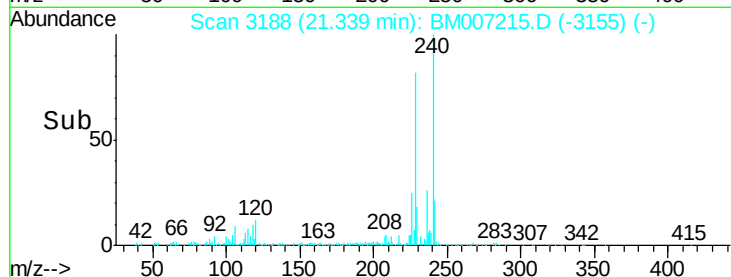
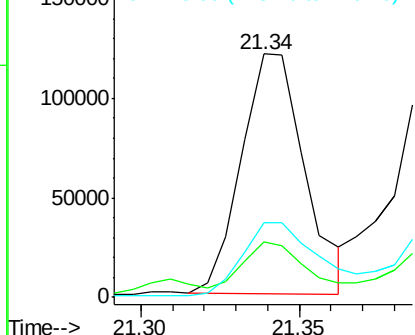
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 167525 |       |       |
| 229     | 22.7  | 15.6   | 23.4  |       |
| 226     | 30.8  | 21.8   | 32.8  |       |

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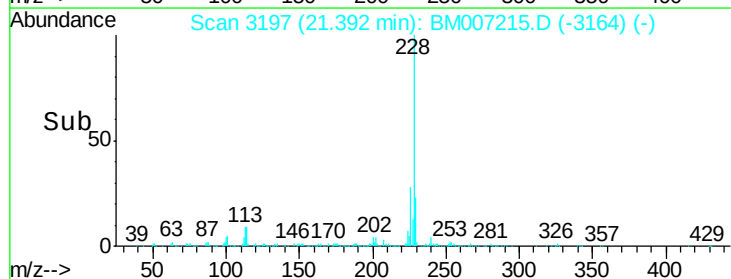
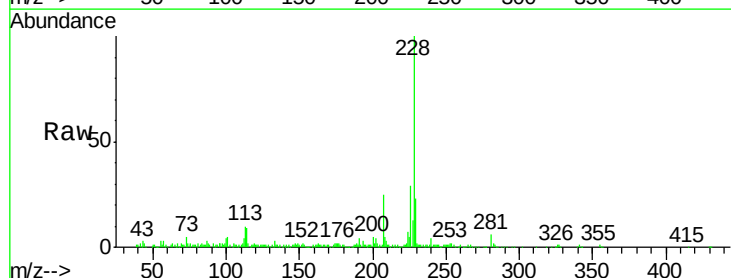
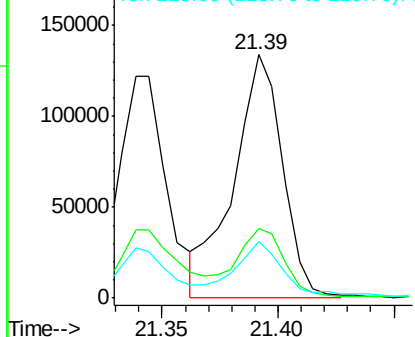
Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 229.00 (228.70 to 229.70): E  
Ion 226.00 (225.70 to 226.70): E

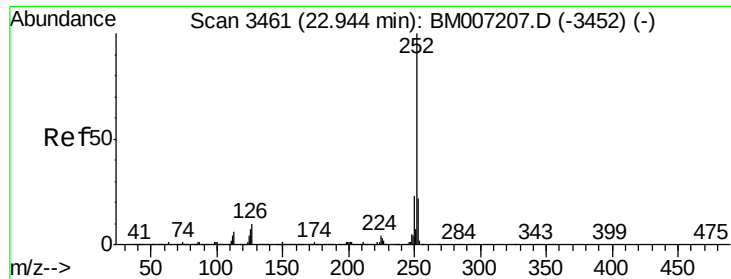


#82  
Chrysene  
Concen: 1.78 ng/ul m  
RT: 21.39 min Scan# 3197  
Delta R.T. -0.01 min  
Lab File: BM007215.D  
Acq: 18 Aug 2016 21:51

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 196710 |       |       |
| 226     | 28.7  | 23.4   | 35.2  |       |
| 229     | 23.4  | 15.5   | 23.3# |       |

Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E





#85

Benzo(b)fluoranthene

Concen: 1.75 ng/ul

RT: 22.94 min Scan# 3461

Delta R.T. 0.00 min

Lab File: BM007215.D

Acq: 18 Aug 2016 21:51

Instrument :

BNA\_M

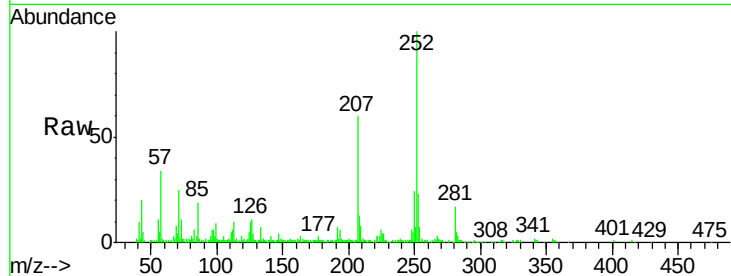
ClientSampleId :

E5N30

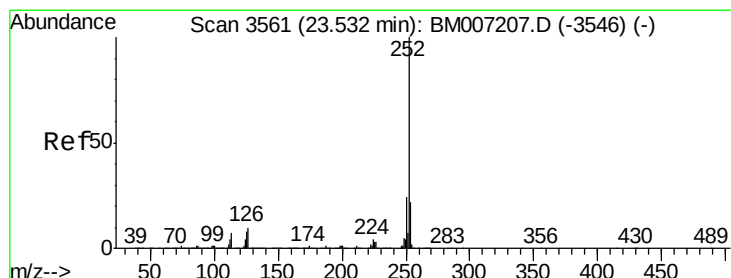
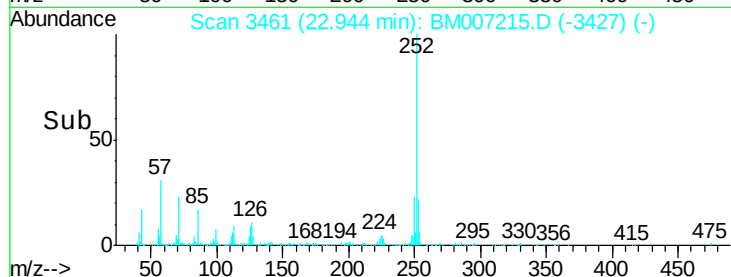
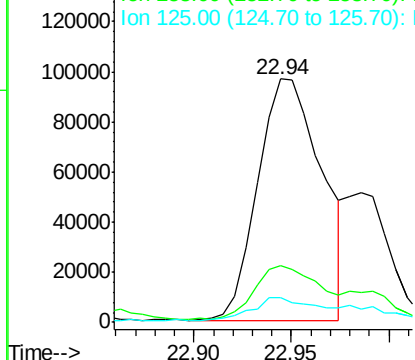
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 219478 |       |       |
| 253     | 23.1  | 17.1   | 25.7  |       |
| 125     | 10.1  | 5.8    | 8.8#  |       |

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Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#88

Benzo(a)pyrene

Concen: 1.26 ng/ul

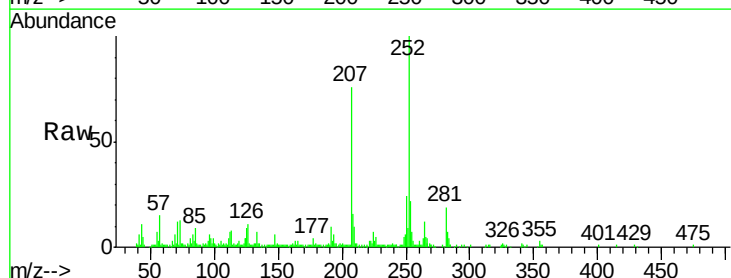
RT: 23.53 min Scan# 3560

Delta R.T. -0.01 min

Lab File: BM007215.D

Acq: 18 Aug 2016 21:51

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 150195 |       |       |
| 253     | 22.3  | 17.7   | 26.5  |       |
| 125     | 9.5   | 6.6    | 9.8   |       |



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

