

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121816\  
 Data File : BM008436.D  
 Acq On : 18 Dec 2016 13:58  
 Operator : UM/SJ  
 Sample : H6067-09DL 10X  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 DA7G0DL

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Quant Time: Dec 19 02:13:55 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Dec 19 01:22:39 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.66  | 152  | 119216   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.43 | 136  | 450664   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.30 | 164  | 286417   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.06 | 188  | 558901   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.25 | 240  | 730104   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.47 | 264  | 757384   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |      |       |      |
|--------------------------------|-------|-----|--------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.23  | 96  | 1466   | 0.58 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.89  | 99  | 20826  | 2.25 | ng/ul | 0.04 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.02  | 67  | 16306  | 3.07 | ng/ul | 0.01 |
| 9) 2-Chlorophenol-d4           | 7.22  | 132 | 21339  | 3.07 | ng/ul | 0.02 |
| 13) 4-Methylphenol-d8          | 8.42  | 113 | 9198   | 1.28 | ng/ul | 0.05 |
| 19) Nitrobenzene-d5            | 8.86  | 128 | 10224m | 3.14 | ng/ul | 0.04 |
| 22) 2-Nitrophenol-d4           | 9.56  | 143 | 10736m | 2.97 | ng/ul | 0.03 |
| 26) 2,4-Dichlorophenol-d3      | 10.17 | 165 | 18863m | 2.85 | ng/ul | 0.10 |
| 29) 4-Chloroaniline-d4         | 10.69 | 131 | 9057m  | 1.19 | ng/ul | 0.11 |
| 43) Dimethylphthalate-d6       | 13.73 | 166 | 71075  | 3.73 | ng/ul | 0.02 |
| 46) Acenaphthylene-d8          | 14.00 | 160 | 86194  | 3.83 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 0.00  | 143 | 0      | 0.00 | ng/ul |      |
| 57) Fluorene-d10               | 15.31 | 176 | 64081  | 3.87 | ng/ul | 0.01 |
| 62) 4,6-Dinitro-2-methylphenol | 15.53 | 200 | 3468m  | 1.04 | ng/ul | 0.07 |
| 70) Anthracene-d10             | 17.16 | 188 | 96260  | 3.95 | ng/ul | 0.01 |
| 76) Pyrene-d10                 | 19.46 | 212 | 122892 | 4.36 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.34 | 264 | 133211 | 4.19 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       |        | Ovalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 80) Benzo(a)anthracene         | 21.24 | 228 | 49842  | 1.32  | ng/ul  | 95     |
| 81) Bis(2-ethylhexyl)phthalate | 21.16 | 149 | 671277 | 35.65 | ng/ul  | 98     |
| 82) Chrysene                   | 21.29 | 228 | 98011  | 2.70  | ng/ul  | 95     |
| 85) Benzo(b)fluoranthene       | 22.82 | 252 | 282439 | 6.91  | ng/ul  | 97     |
| 86) Benzo(k)fluoranthene       | 22.86 | 252 | 83757  | 2.14  | ng/ul  | 96     |
| 88) Benzo(a)pyrene             | 23.39 | 252 | 193478 | 4.91  | ng/ul  | 99     |
| 89) Indeno(1,2,3-cd)pyrene     | 25.71 | 276 | 204075 | 4.27  | ng/ul  | 97     |
| 90) Dibenzo(a,h)anthracene     | 25.71 | 278 | 53697  | 1.34  | ng/ul# | 88     |
| 91) Benzo(a,h,i)perylene       | 26.40 | 276 | 184467 | 4.61  | ng/ul  | 97     |

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

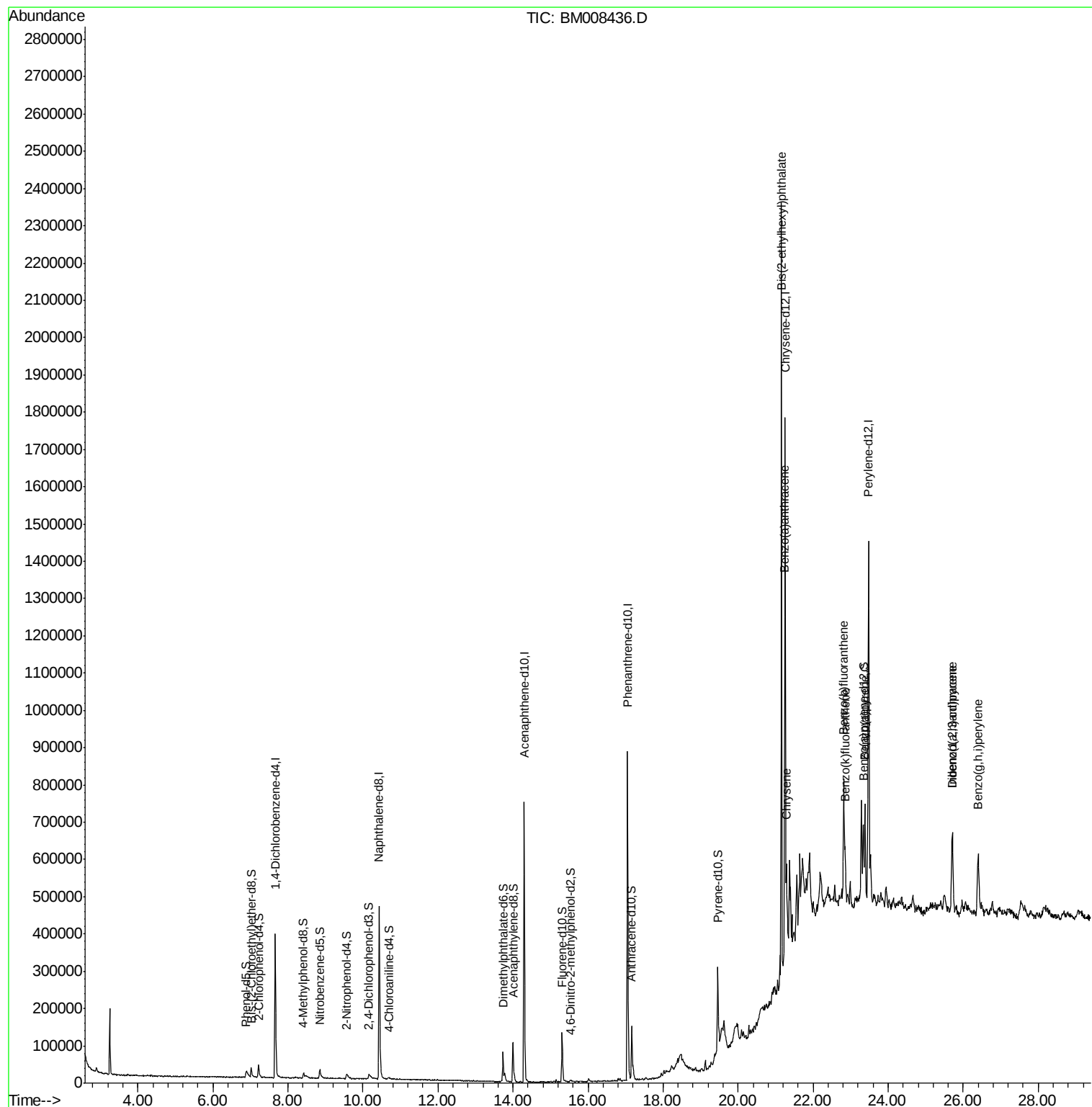
Data Path : Z:\HPCHEM1\BNA M\DATA\BM121816\  
 Data File : BM008436.D  
 Acq On : 18 Dec 2016 13:58  
 Operator : UM/SJ  
 Sample : H6067-09DL 10X  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

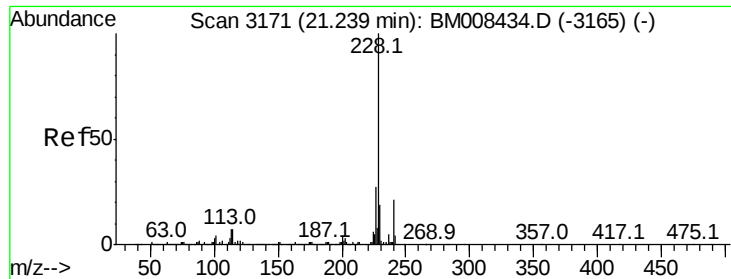
Instrument :  
 BNA\_M  
 ClientSampleId :  
 DA7G0DL

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Quant Time: Dec 19 02:13:55 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121816.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Dec 19 01:22:39 2016  
 Response via : Initial Calibration





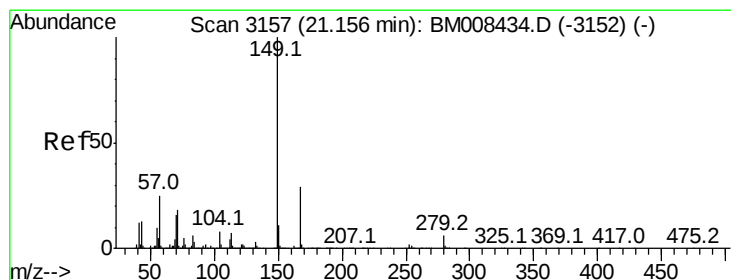
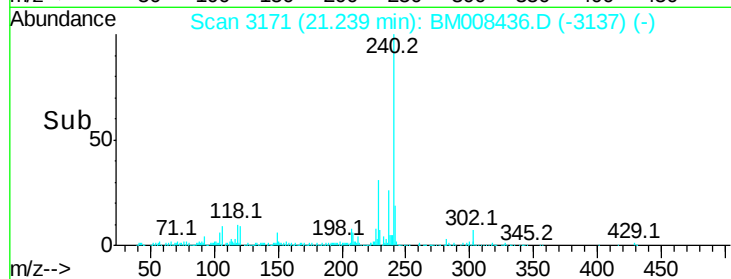
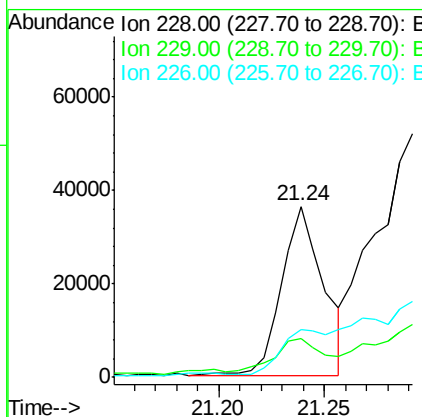
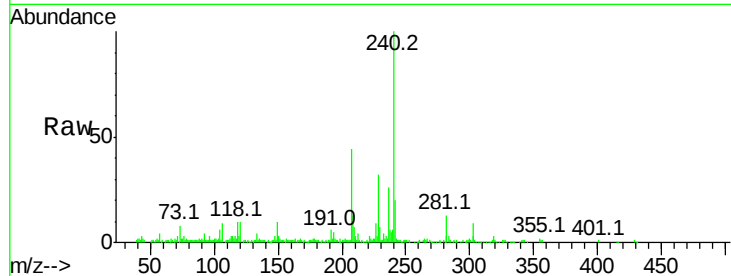
#80  
Benzo(a)anthracene  
Concen: 1.32 ng/ul  
RT: 21.24 min Scan# 3171  
Delta R.T. -0.00 min  
Lab File: BM008436.D  
Acq: 18 Dec 2016 13:58

Instrument :  
BNA\_M  
ClientSampleId :  
DA7G0DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 23.0  | 15.4  | 23.2  |
| 226     | 28.2  | 21.2  | 31.8  |

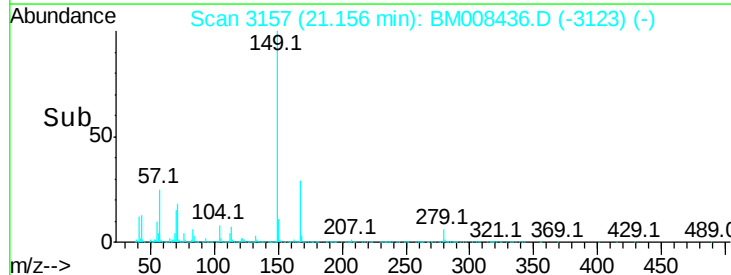
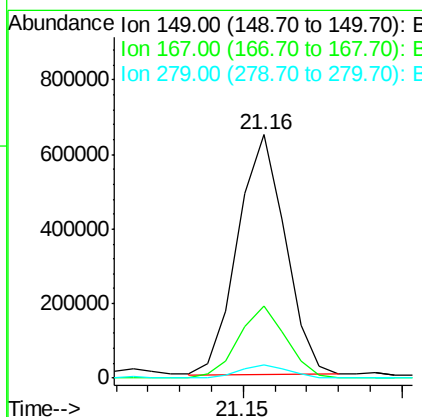
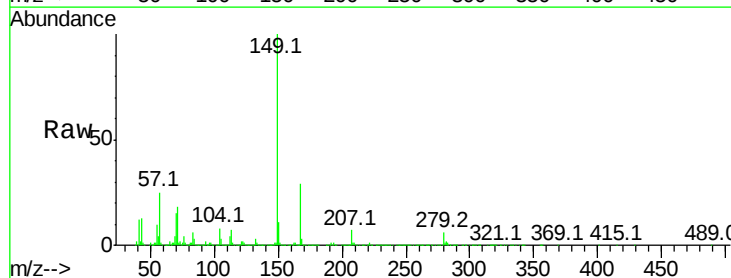
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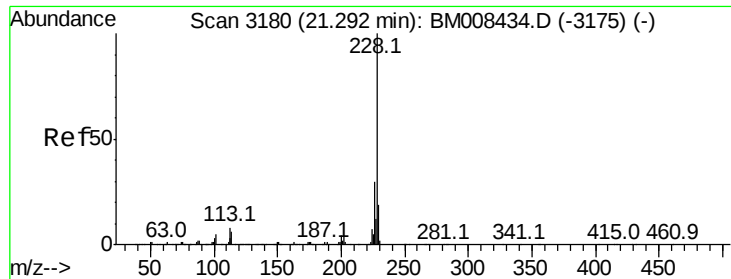
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#81  
Bis(2-ethylhexyl)phthalate  
Concen: 35.65 ng/ul  
RT: 21.16 min Scan# 3157  
Delta R.T. -0.00 min  
Lab File: BM008436.D  
Acq: 18 Dec 2016 13:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 29.4  | 22.6  | 34.0  |
| 279     | 5.6   | 4.2   | 6.4   |





#82

Chrysene

Concen: 2.70 ng/ul

RT: 21.29 min Scan# 3180

Delta R.T. 0.00 min

Lab File: BM008436.D

Acq: 18 Dec 2016 13:58

Instrument :

BNA\_M

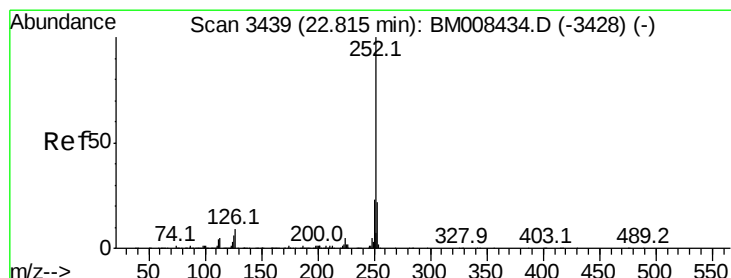
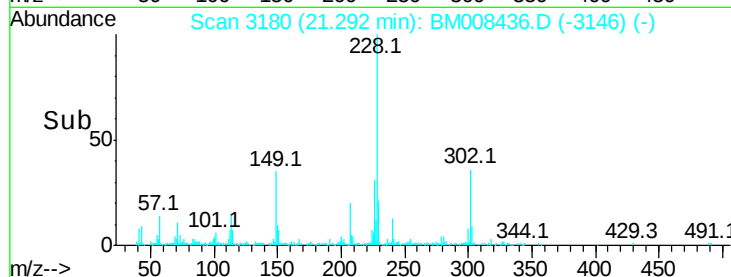
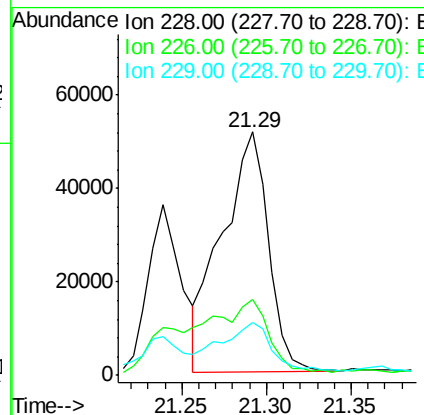
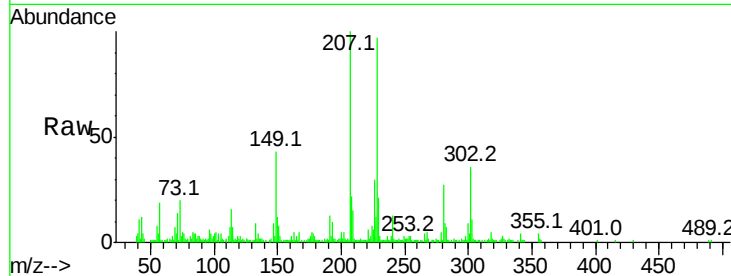
ClientSampleId :

DA7G0DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 98011 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.2  | 23.1  | 34.7  |
| 229       | 22.0  | 15.4  | 23.2  |

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#85

Benzo(b)fluoranthene

Concen: 6.91 ng/ul

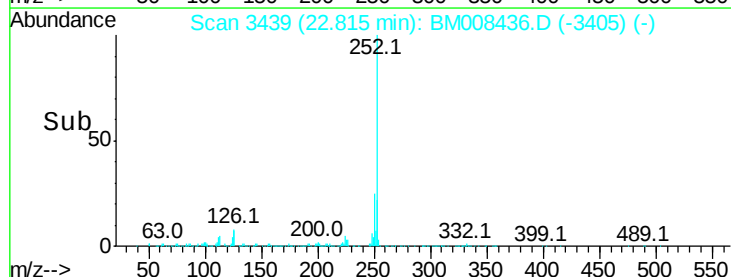
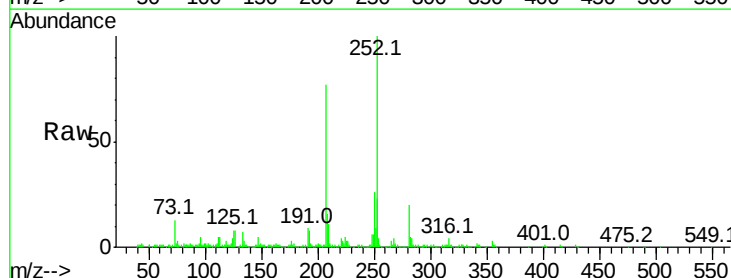
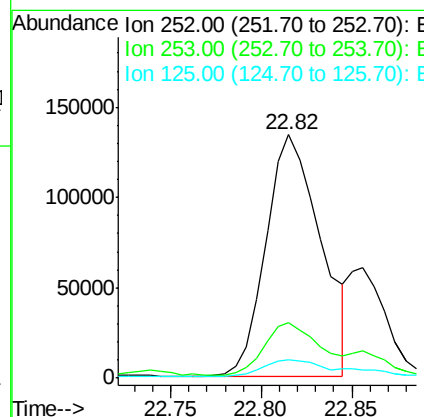
RT: 22.82 min Scan# 3439

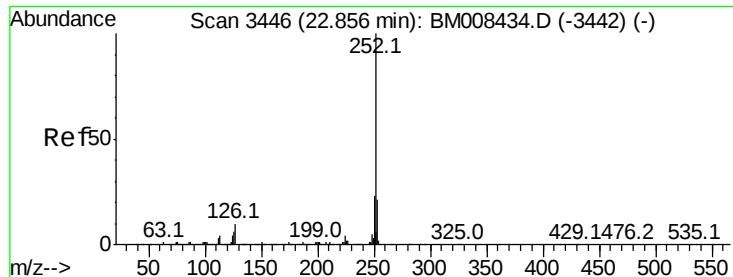
Delta R.T. -0.00 min

Lab File: BM008436.D

Acq: 18 Dec 2016 13:58

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 282439 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.8  | 17.1  | 25.7   |
| 125       | 7.6   | 5.4   | 8.2    |





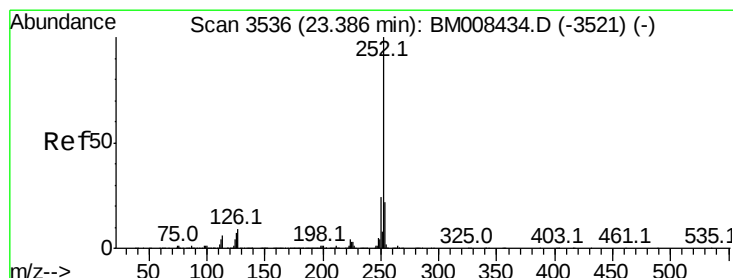
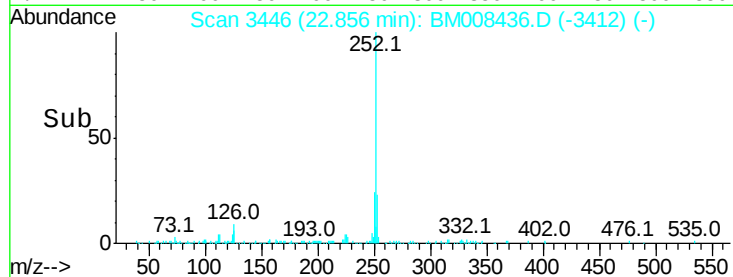
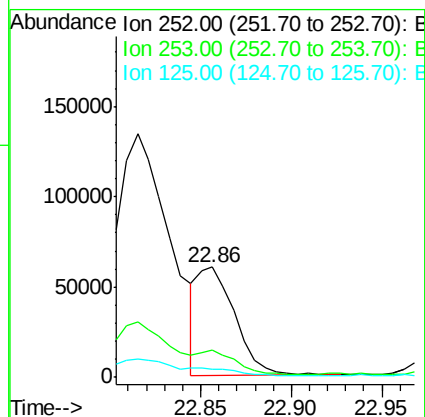
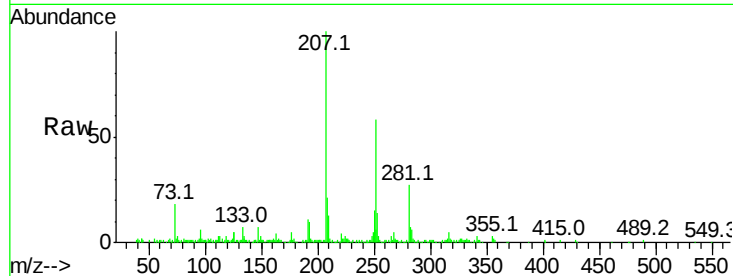
#86  
Benzo(k)fluoranthene  
Concen: 2.14 ng/ul  
RT: 22.86 min Scan# 3446  
Delta R.T. -0.00 min  
Lab File: BM008436.D  
Acq: 18 Dec 2016 13:58

Instrument :  
BNA\_M  
ClientSampleId :  
DA7G0DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.4  | 17.6  | 26.4  |
| 125     | 7.7   | 5.8   | 8.6   |

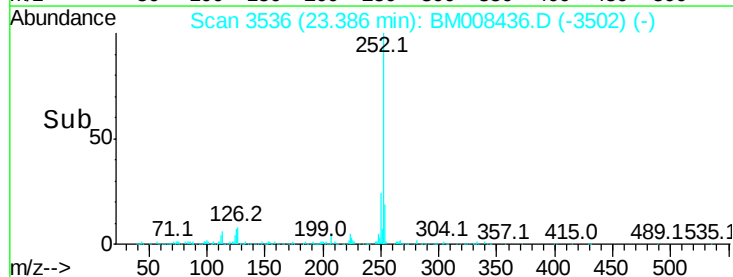
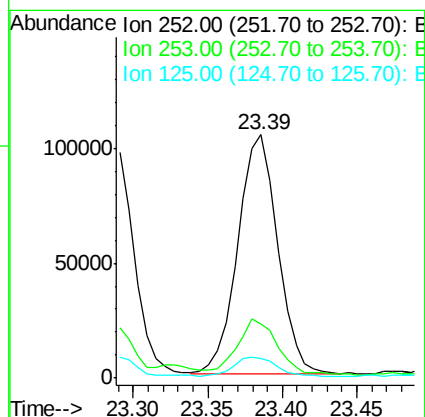
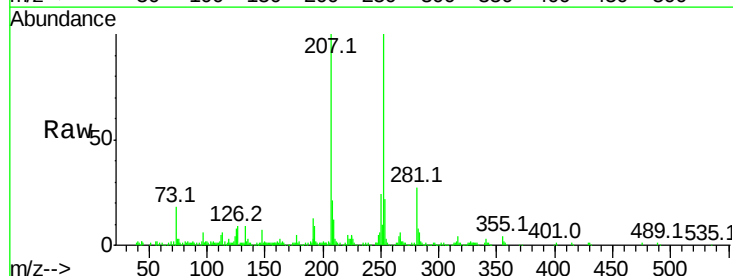
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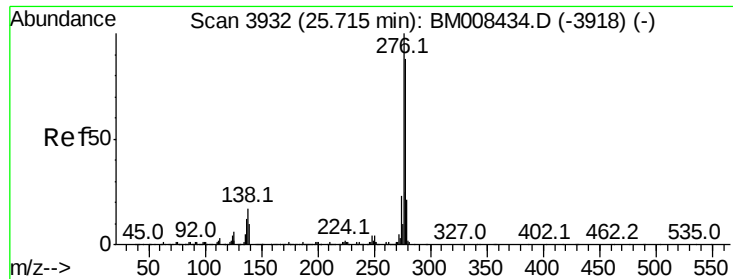
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#88  
Benzo(a)pyrene  
Concen: 4.91 ng/ul  
RT: 23.39 min Scan# 3536  
Delta R.T. -0.00 min  
Lab File: BM008436.D  
Acq: 18 Dec 2016 13:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.1  | 17.4  | 26.2  |
| 125     | 8.0   | 6.6   | 9.8   |





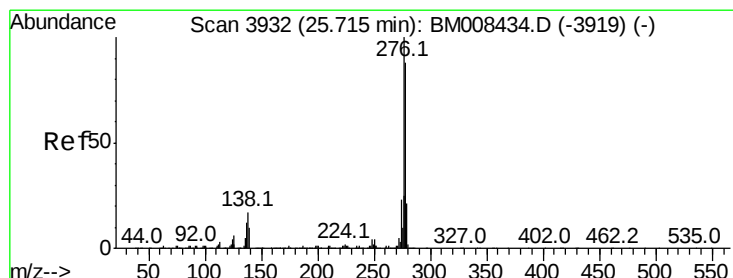
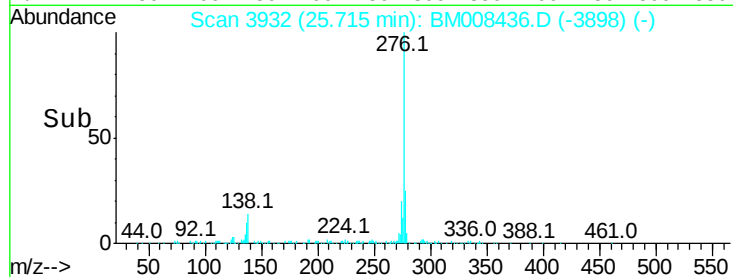
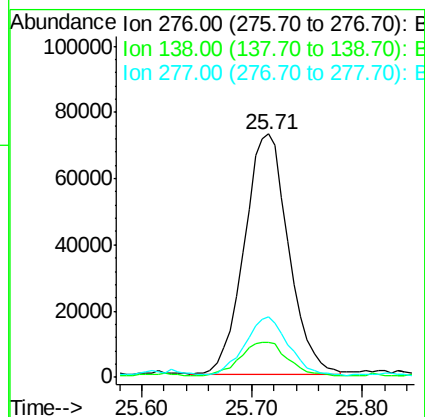
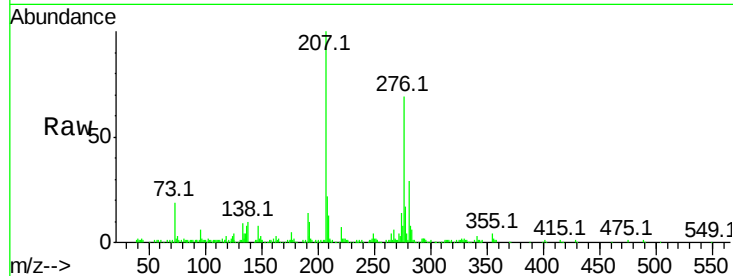
#89  
Indeno(1,2,3-cd)pyrene  
Concen: 4.27 ng/ul  
RT: 25.71 min Scan# 3932  
Delta R.T. -0.00 min  
Lab File: BM008436.D  
Acq: 18 Dec 2016 13:58

Instrument :  
BNA\_M  
ClientSampleId :  
DA7G0DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 14.2  | 13.4  | 20.2  |
| 277     | 25.0  | 19.7  | 29.5  |

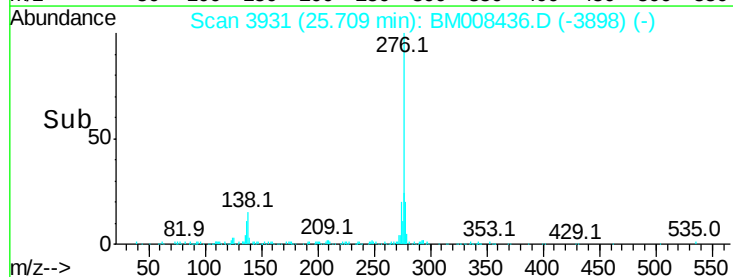
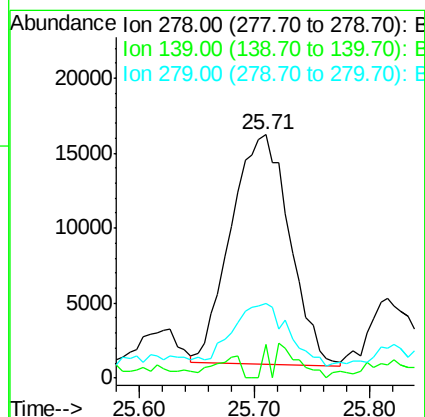
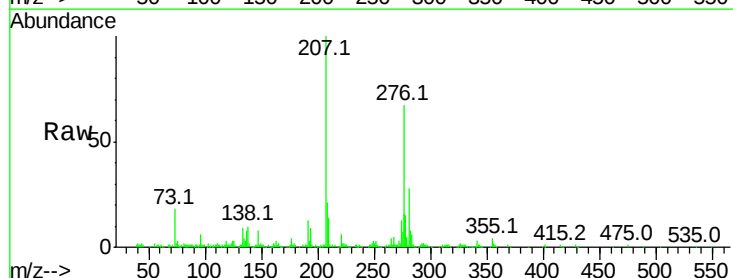
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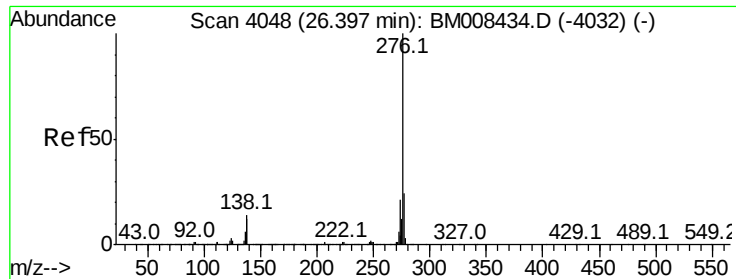
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#90  
Dibenzo(a,h)anthracene  
Concen: 1.34 ng/ul  
RT: 25.71 min Scan# 3931  
Delta R.T. -0.01 min  
Lab File: BM008436.D  
Acq: 18 Dec 2016 13:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 14.0  | 9.4   | 14.0  |
| 279     | 30.4  | 18.6  | 28.0  |





#91  
 Benzo(a,h,i)perylene  
 Concen: 4.61 ng/ul  
 RT: 26.40 min Scan# 4048  
 Delta R.T. 0.00 min  
 Lab File: BM008436.D  
 Acq: 18 Dec 2016 13:58

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DA7G0DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 16.9  | 12.0  | 18.0  |
| 277     | 23.6  | 19.4  | 29.0  |

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