

Data Path : Z:\HPCHEM1\BNA M\DATA\BM040617\  
 Data File : BM009577.D  
 Acq On : 06 Apr 2017 02:45  
 Operator : SJ/MA  
 Sample : I2524-20  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CB362

Manual Integrations  
 APPROVED

mohammad  
 4/6/2017 11:39:36 AM

Quant Time: Apr 06 04:11:11 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM040417-PAH.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Apr 06 03:48:05 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.84  | 152  | 161716   | 20.00 | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.64 | 136  | 622118   | 20.00 | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.49 | 164  | 352590   | 20.00 | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.23 | 188  | 819363   | 20.00 | ng/ul  | 0.00     |
| 18) Chrysene-d12            | 21.41 | 240  | 1117797  | 20.00 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.73 | 264  | 1096261  | 20.00 | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 3) 2,4-Dichlorophenol-d3    | 10.26 | 165  | 34828    | 3.64  | ng/uL  | 0.00     |
| 7) Acenaphthylene-d8        | 14.17 | 160  | 731294   | 21.16 | ng/ul  | 0.00     |
| 10) Fluorene-d10            | 15.48 | 176  | 575981   | 23.17 | ng/ul  | 0.00     |
| 15) Anthracene-d10          | 17.33 | 188  | 898139   | 22.91 | ng/ul  | 0.00     |
| 19) Pyrene-d10              | 19.63 | 212  | 1078991  | 23.49 | ng/ul  | 0.00     |
| 26) Benzo(a)pyrene-d12      | 23.59 | 264  | 1077617  | 22.26 | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |       |        |          |
| 14) Phenanthrene            | 17.27 | 178  | 253347   | 5.50  | ng/ul  | 98       |
| 17) Fluoranthene            | 19.29 | 202  | 476262   | 8.30  | ng/ul# | 94       |
| 20) Pyrene                  | 19.66 | 202  | 447835   | 7.36  | ng/ul  | 95       |
| 21) Benzo(a)anthracene      | 21.40 | 228  | 264468   | 4.18  | ng/ul  | 96       |
| 22) Chrysene                | 21.44 | 228  | 267789   | 4.62  | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 23.03 | 252  | 331635   | 4.89  | ng/ul# | 96       |
| 25) Benzo(k)fluoranthene    | 23.07 | 252  | 131615m  | 2.04  | ng/ul  |          |
| 27) Benzo(a)pyrene          | 23.63 | 252  | 222827   | 3.46  | ng/ul  | 97       |
| 28) Indeno(1,2,3-cd)pyrene  | 26.09 | 276  | 169042m  | 2.34  | ng/ul  |          |
| 30) Benzo(g,h,i)perylene    | 26.82 | 276  | 145418   | 2.44  | ng/ul# | 90       |

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

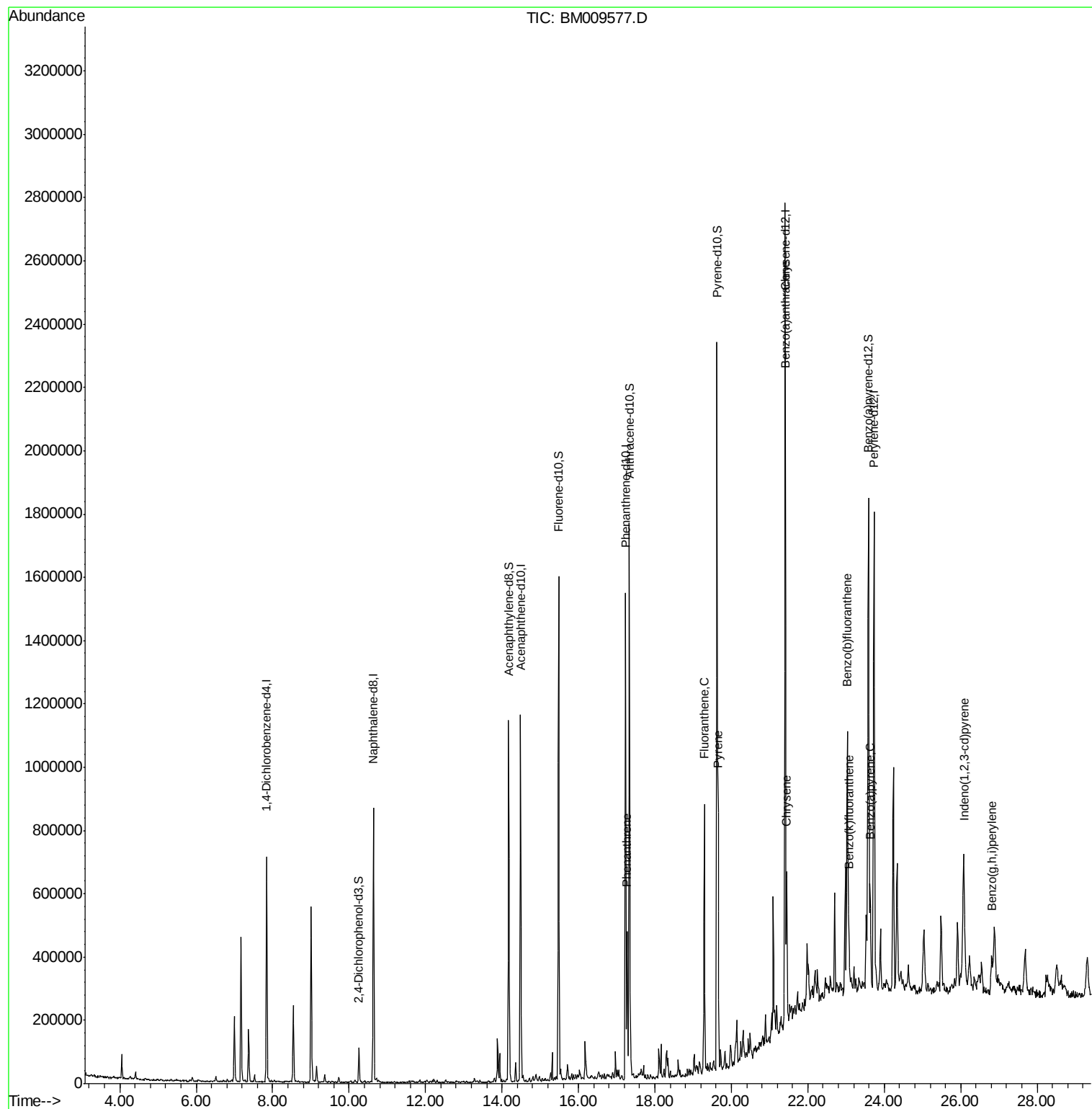
Data Path : Z:\HPCHEM1\BNA M\DATA\BM040617\  
Data File : BM009577.D  
Acq On : 06 Apr 2017 02:45  
Operator : SJ/MA  
Sample : I2524-20  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

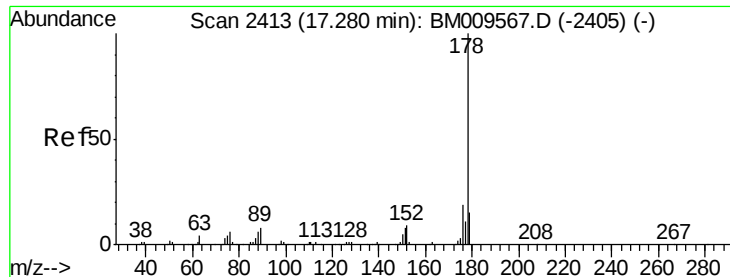
Instrument :  
BNA\_M  
ClientSampleId :  
CB362

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Quant Time: Apr 06 04:11:11 2017  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM040417-PAH.M  
Quant Title : SVOA CALIBRATION  
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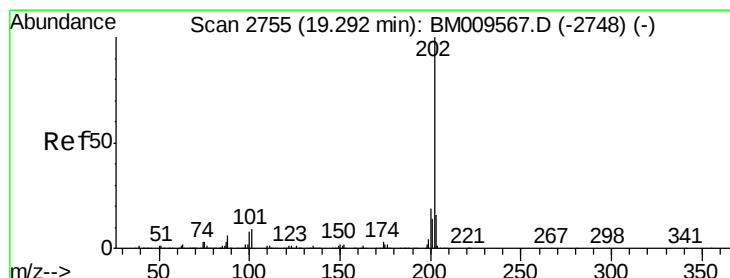
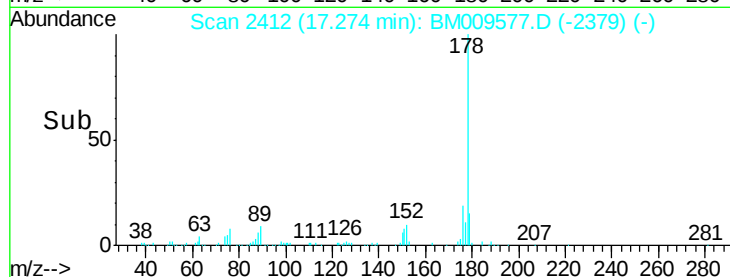
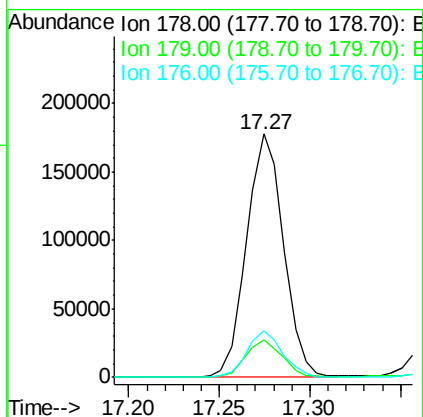
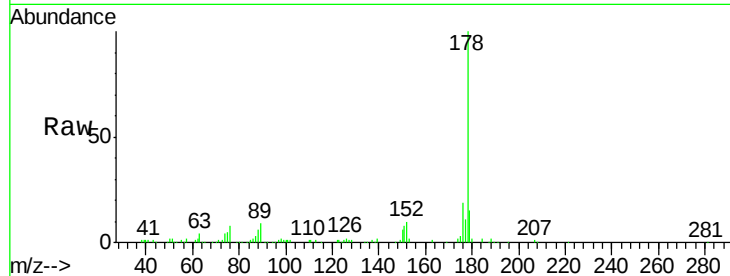
#14  
Phenanthrene  
Concen: 5.50 ng/ul  
RT: 17.27 min Scan# 2412  
Delta R.T. -0.01 min  
Lab File: BM009577.D  
Acq: 06 Apr 2017 02:45

Instrument :  
BNA\_M  
ClientSampleId :  
CB362

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.3  | 12.2  | 18.4  |
| 176     | 19.1  | 16.4  | 24.6  |

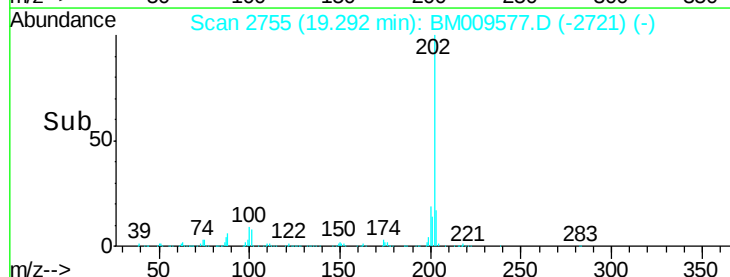
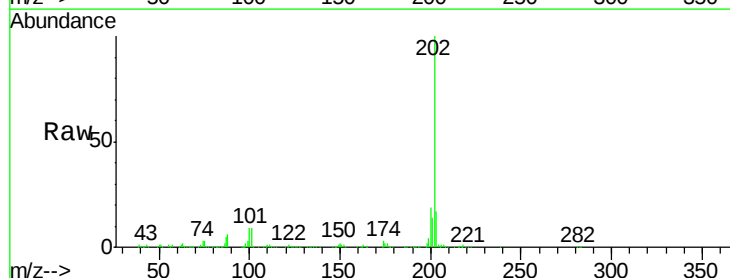
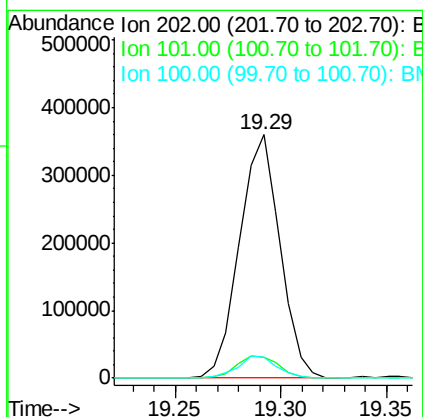
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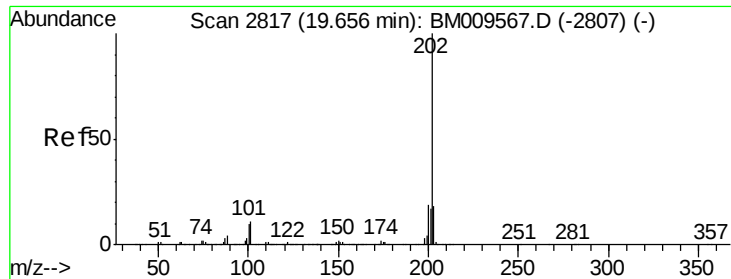
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#17  
Fluoranthene  
Concen: 8.30 ng/ul  
RT: 19.29 min Scan# 2755  
Delta R.T. 0.00 min  
Lab File: BM009577.D  
Acq: 06 Apr 2017 02:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.5   | 9.8   | 14.8# |
| 100     | 8.6   | 7.5   | 11.3  |





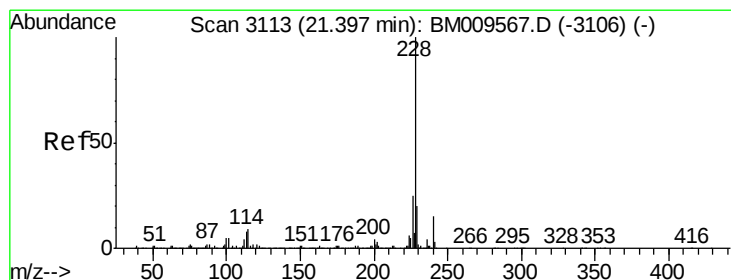
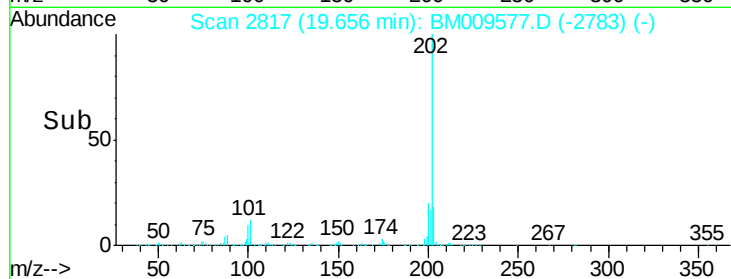
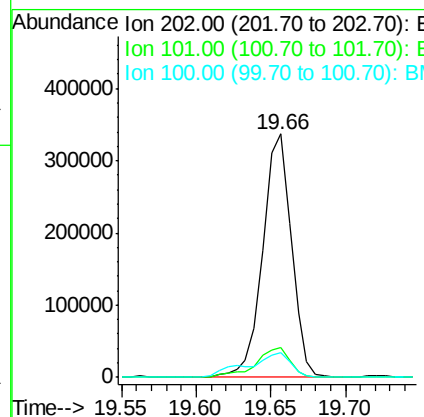
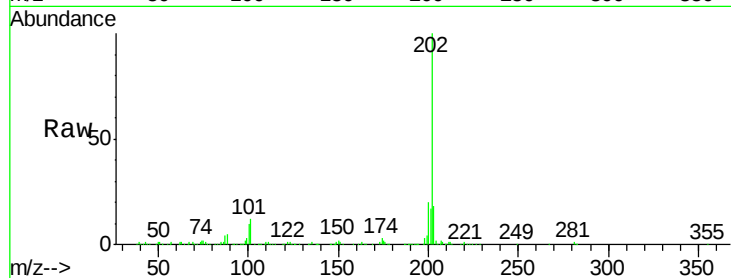
#20  
Pvrene  
Concen: 7.36 ng/ul  
RT: 19.66 min Scan# 2817  
Delta R.T. 0.00 min  
Lab File: BM009577.D  
Acq: 06 Apr 2017 02:45

Instrument :  
BNA\_M  
ClientSampleId :  
CB362

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.2  | 11.2  | 16.8  |
| 100     | 9.9   | 9.8   | 14.6  |

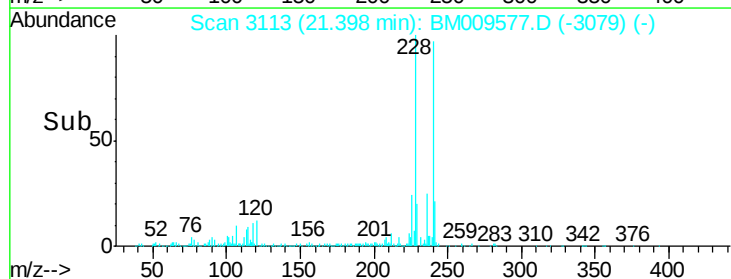
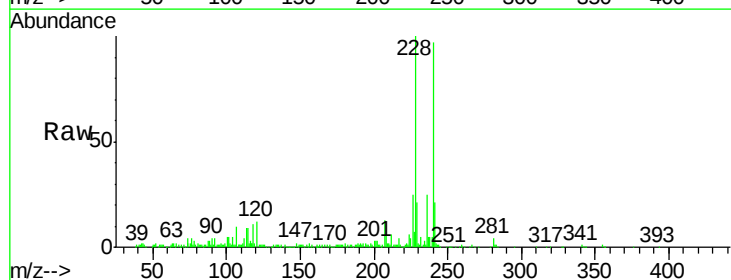
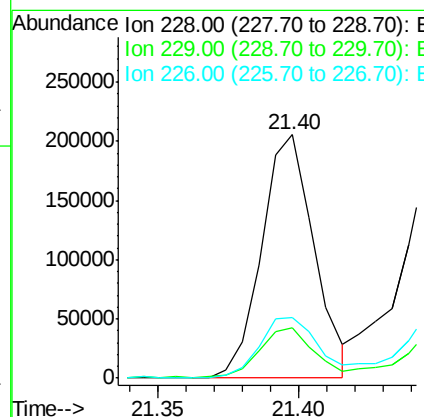
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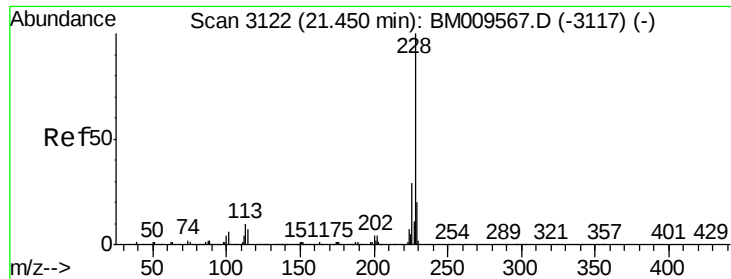
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#21  
Benzo(a)anthracene  
Concen: 4.18 ng/ul  
RT: 21.40 min Scan# 3113  
Delta R.T. 0.00 min  
Lab File: BM009577.D  
Acq: 06 Apr 2017 02:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.6  | 15.9  | 23.9  |
| 226     | 24.6  | 22.1  | 33.1  |





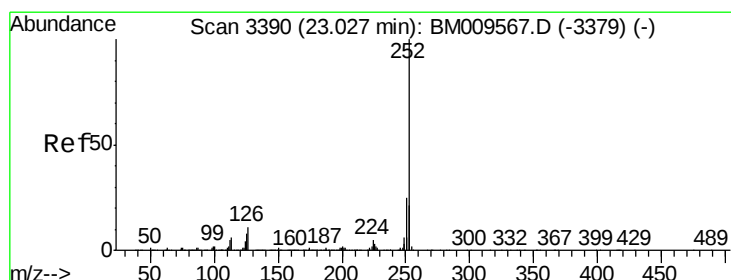
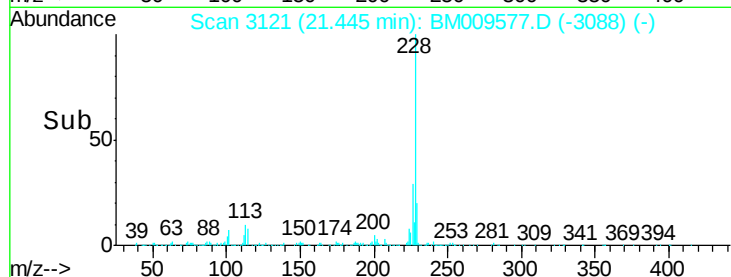
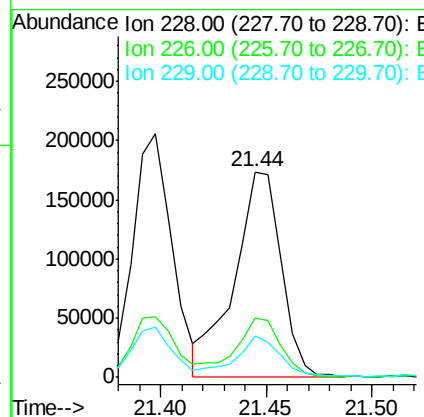
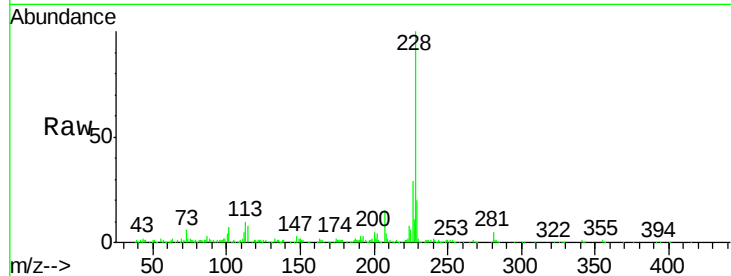
#22  
Chrysene  
Concen: 4.62 ng/ul  
RT: 21.44 min Scan# 3121  
Delta R.T. -0.01 min  
Lab File: BM009577.D  
Acq: 06 Apr 2017 02:45

Instrument :  
BNA\_M  
ClientSampleId :  
CB362

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.6  | 25.0  | 37.6  |
| 229     | 20.4  | 16.6  | 25.0  |

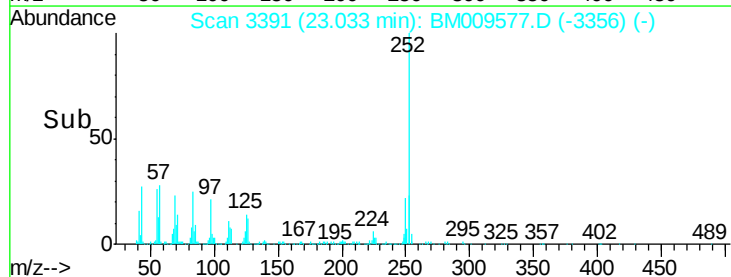
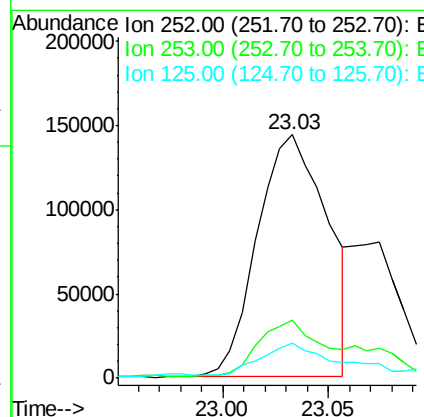
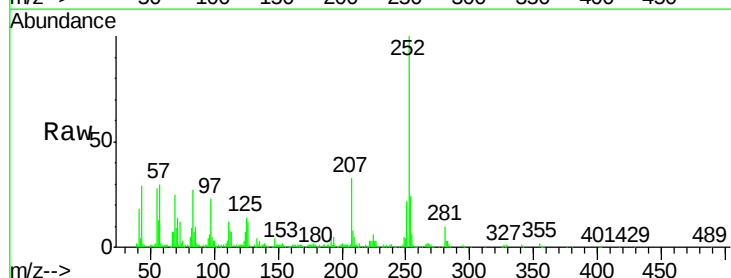
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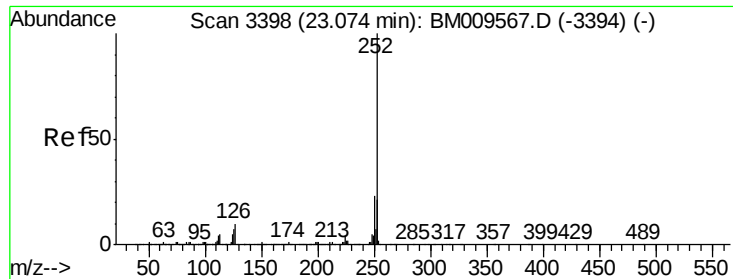
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#24  
Benzo(b)fluoranthene  
Concen: 4.89 ng/ul  
RT: 23.03 min Scan# 3391  
Delta R.T. 0.01 min  
Lab File: BM009577.D  
Acq: 06 Apr 2017 02:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 17.8  | 26.6  |
| 125     | 14.3  | 9.4   | 14.0  |





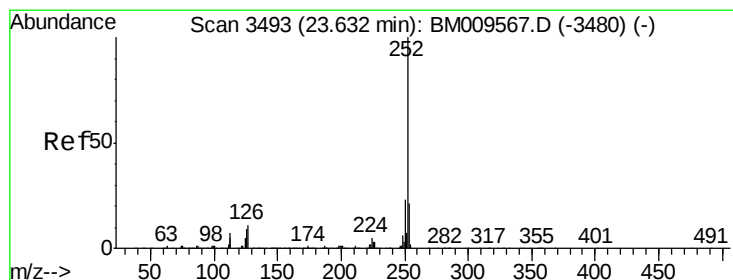
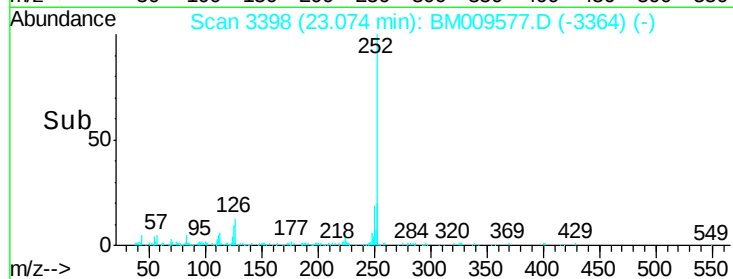
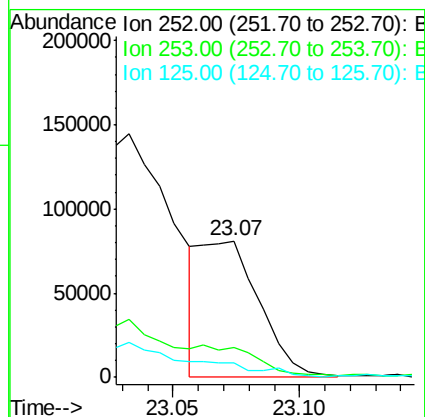
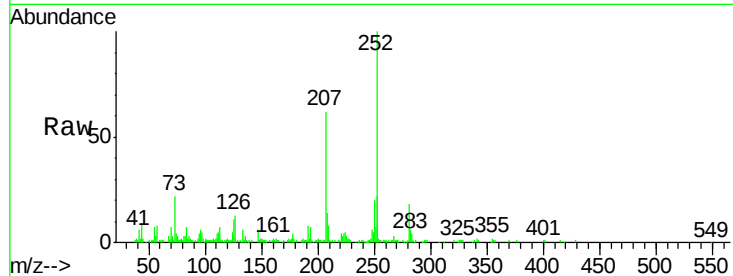
#25  
Benzo(k)fluoranthene  
Concen: 2.04 ng/ul m  
RT: 23.07 min Scan# 3398  
Delta R.T. 0.00 min  
Lab File: BM009577.D  
Acq: 06 Apr 2017 02:45

Instrument :  
BNA\_M  
ClientSampleId :  
CB362

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 131615 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.8  | 17.4  | 26.2   |
| 125       | 10.9  | 8.8   | 13.2   |

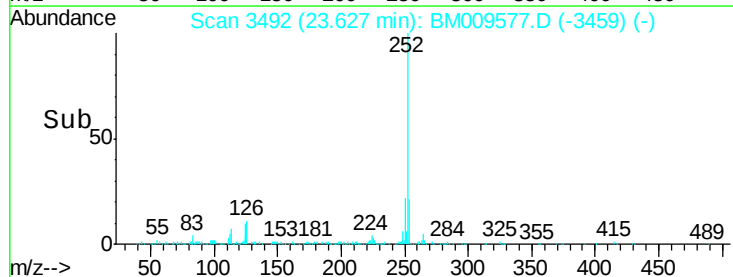
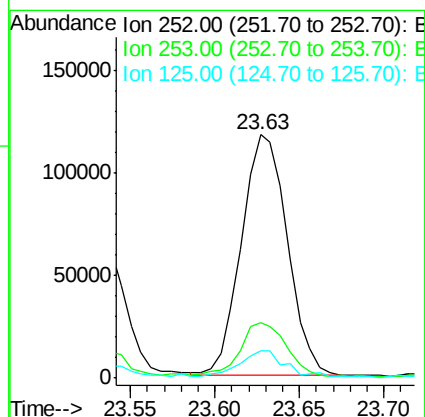
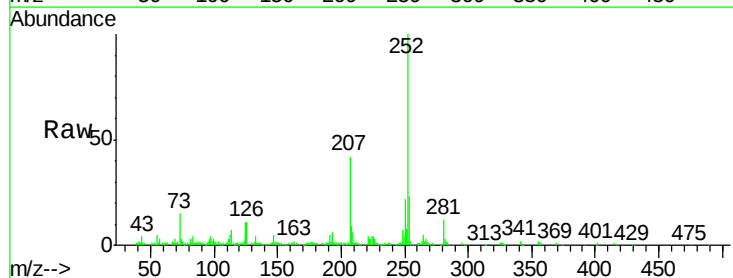
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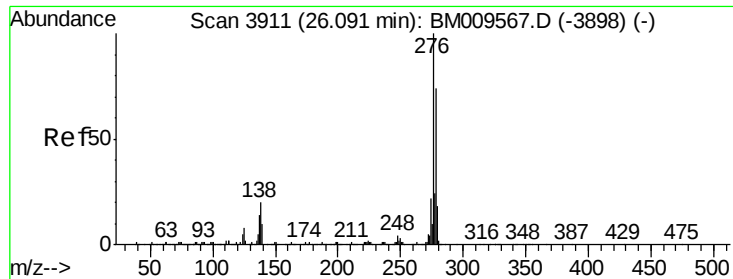
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#27  
Benzo(a)pyrene  
Concen: 3.46 ng/ul  
RT: 23.63 min Scan# 3492  
Delta R.T. -0.01 min  
Lab File: BM009577.D  
Acq: 06 Apr 2017 02:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 222827 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.9  | 17.1  | 25.7   |
| 125       | 11.0  | 9.4   | 14.2   |





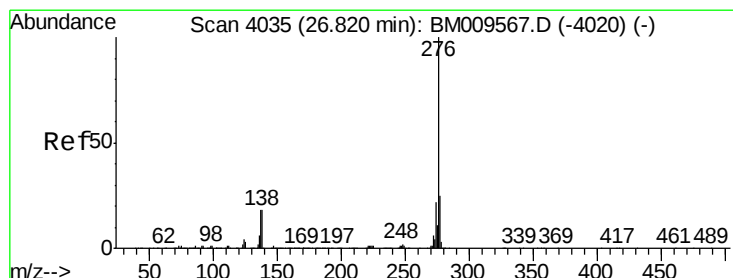
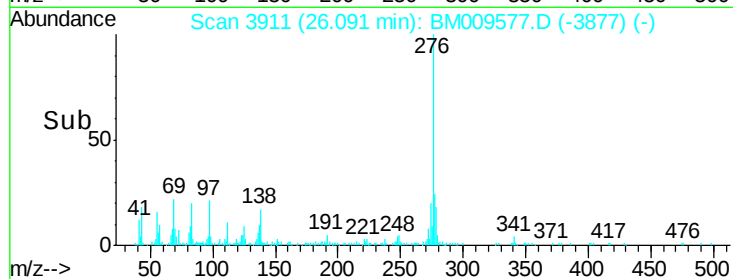
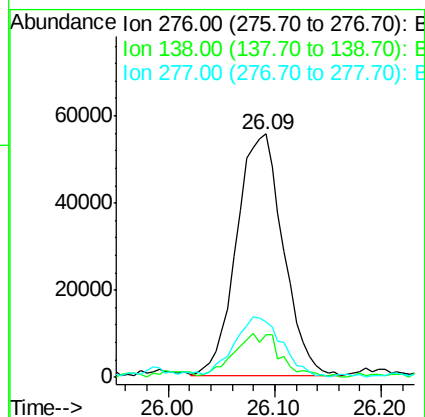
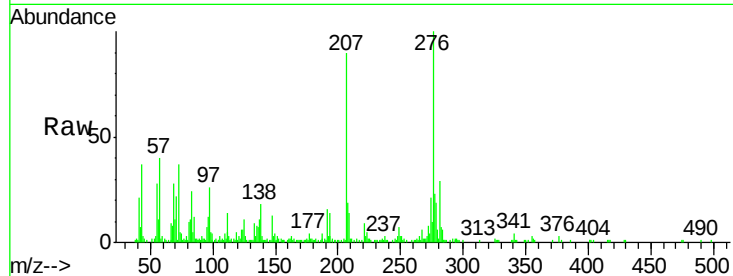
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Indeno(1,2,3-cd)pyrene  
Concen: 2.34 ng/ul m  
RT: 26.09 min Scan# 3911  
Delta R.T. 0.00 min  
Lab File: BM009577.D  
Acq: 06 Apr 2017 02:45

Instrument :  
BNA\_M  
ClientSampleId :  
CB362

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.5  | 17.8  | 26.6# |
| 277     | 23.0  | 19.4  | 29.0  |

Manual Integrations  
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#30  
Benzo(g,h,i)perylene  
Concen: 2.44 ng/ul  
RT: 26.82 min Scan# 4035  
Delta R.T. 0.00 min  
Lab File: BM009577.D  
Acq: 06 Apr 2017 02:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.4  | 19.0  | 28.4# |
| 277     | 20.9  | 19.7  | 29.5  |

