

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081215\  
 Data File : BM002343.D  
 Acq On : 12 Aug 2015 03:43  
 Operator : UM/IZ  
 Sample : G3162-08  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9C75

Manual Integrations  
 APPROVED

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 8/12/2015 2:35:45 PM

Quant Time: Aug 12 05:09:46 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM080715MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Aug 12 04:50:31 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|--------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.90  | 152  | 214323   | 20.00 | ng/ul  | 0.00      |
| 2) Naphthalene-d8           | 11.77 | 136  | 1011145  | 20.00 | ng/ul  | 0.00      |
| 6) Acenaphthene-d10         | 15.48 | 164  | 521179   | 20.00 | ng/ul  | 0.00      |
| 12) Phenanthrene-d10        | 18.19 | 188  | 1029027  | 20.00 | ng/ul  | 0.00      |
| 17) Chrysene-d12            | 22.27 | 240  | 749115   | 20.00 | ng/ul  | 0.00      |
| 22) Perylene-d12            | 24.97 | 264  | 638168   | 20.00 | ng/ul  | 0.00      |
| System Monitoring Compounds |       |      |          |       |        |           |
| 7) Acenaphthylene-d8        | 15.19 | 160  | 866434   | 16.05 | ng/ul  | 0.00      |
| 10) Fluorene-d10            | 16.45 | 176  | 576034   | 15.34 | ng/ul  | 0.00      |
| 14) Anthracene-d10          | 18.29 | 188  | 787198   | 15.77 | ng/ul  | 0.00      |
| 18) Pyrene-d10              | 20.50 | 212  | 714094   | 19.65 | ng/ul  | 0.00      |
| 25) Benzo(a)pyrene-d12      | 24.79 | 264  | 478768   | 14.13 | ng/ul  | 0.00      |
| Target Compounds            |       |      |          |       |        |           |
| 13) Phenanthrene            | 18.23 | 178  | 387403   | 6.54  | ng/ul  | Ovalue 99 |
| 15) Anthracene              | 18.32 | 178  | 64946    | 1.06  | ng/ul  | 98        |
| 16) Fluoranthene            | 20.17 | 202  | 923617   | 14.08 | ng/ul  | 100       |
| 19) Pyrene                  | 20.53 | 202  | 813679   | 16.80 | ng/ul  | 98        |
| 20) Benzo(a)anthracene      | 22.26 | 228  | 620647   | 13.57 | ng/ul  | 99        |
| 21) Chrysene                | 22.32 | 228  | 748469   | 17.27 | ng/ul  | 98        |
| 23) Benzo(b)fluoranthene    | 24.14 | 252  | 1407361  | 35.48 | ng/ul  | 100       |
| 24) Benzo(k)fluoranthene    | 24.19 | 252  | 392197m  | 10.30 | ng/ul  |           |
| 26) Benzo(a)pyrene          | 24.85 | 252  | 771404   | 20.32 | ng/ul  | 98        |
| 27) Indeno(1,2,3-cd)pyrene  | 27.81 | 276  | 798521   | 18.35 | ng/ul  | 94        |
| 28) Dibenzo(a,h)anthracene  | 27.81 | 278  | 223731   | 6.07  | ng/ul# | 79        |
| 29) Benzo(g,h,i)perylene    | 28.69 | 276  | 770282   | 20.99 | ng/ul  | 98        |

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

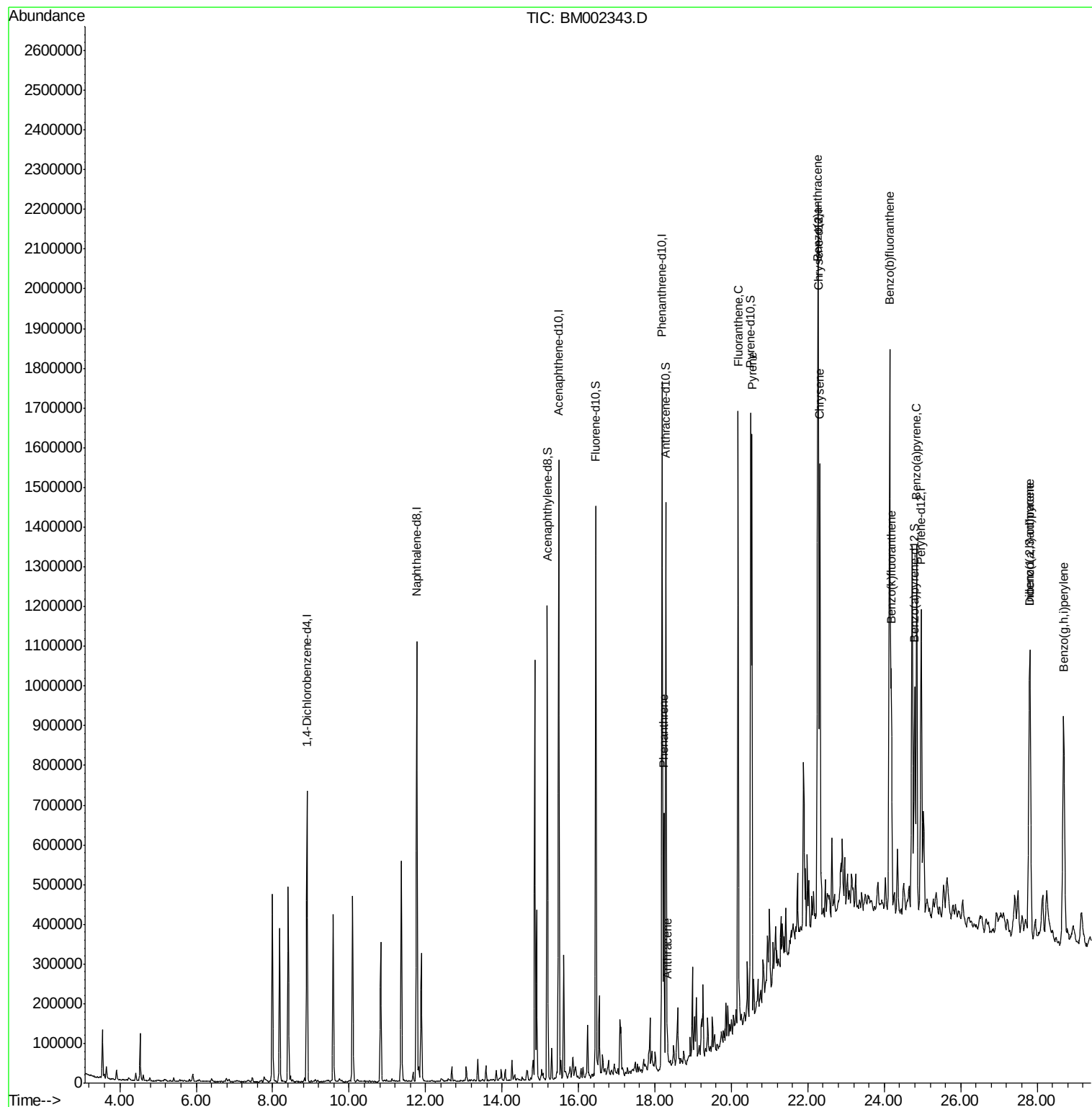
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081215\  
Data File : BM002343.D  
Acq On : 12 Aug 2015 03:43  
Operator : UM/IZ  
Sample : G3162-08  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

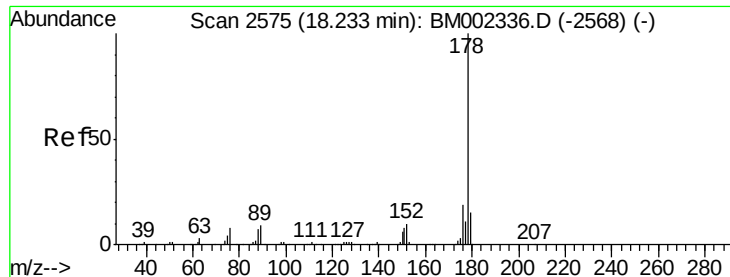
Instrument :  
BNA\_M  
ClientSampleId :  
D9C75

Manual Integrations  
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Quant Time: Aug 12 05:09:46 2015  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM080715MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Aug 12 04:50:31 2015  
Response via : Initial Calibration





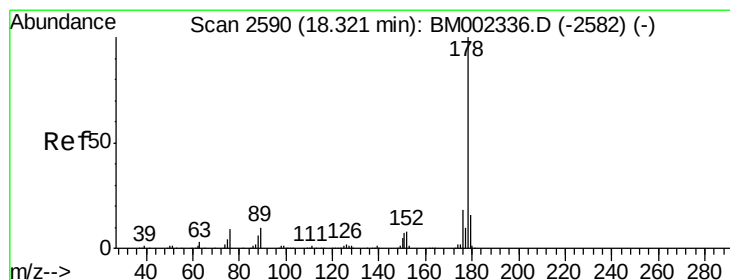
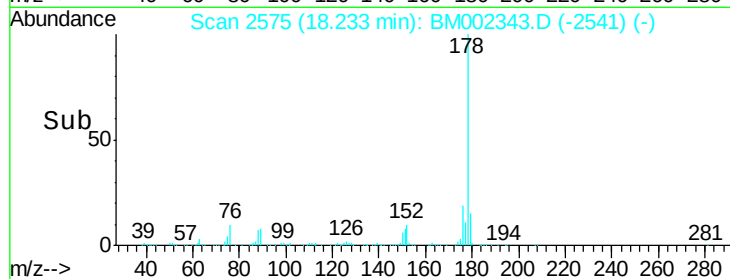
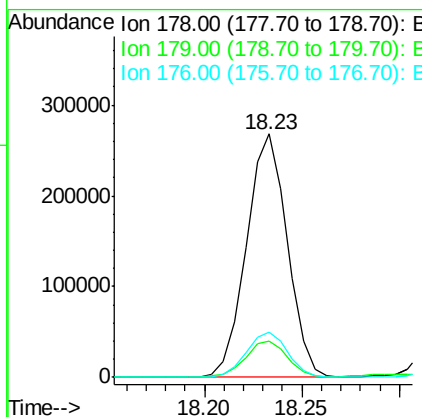
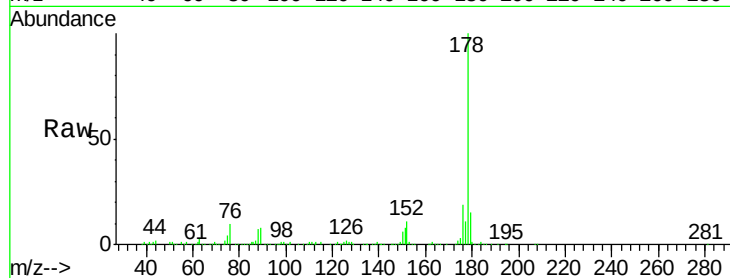
#13  
Phenanthrene  
Concen: 6.54 ng/ul  
RT: 18.23 min Scan# 2575  
Delta R.T. 0.00 min  
Lab File: BM002343.D  
Acq: 12 Aug 2015 03:43

Instrument :  
BNA\_M  
ClientSampleId :  
D9C75

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 14.8  | 12.3  | 18.5  |
| 176     | 18.7  | 15.3  | 22.9  |

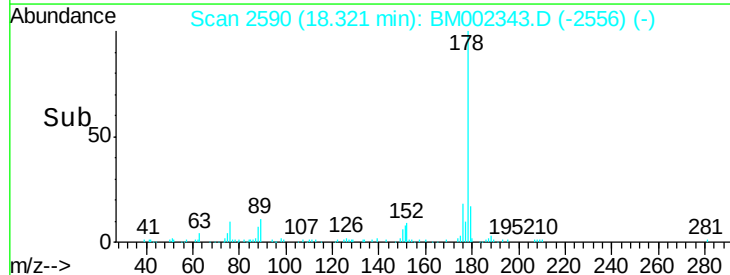
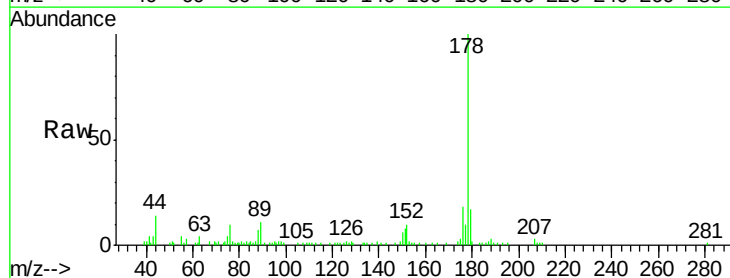
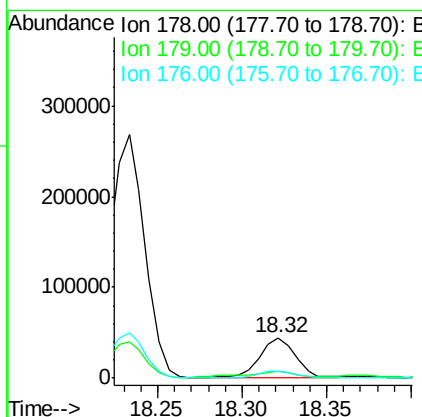
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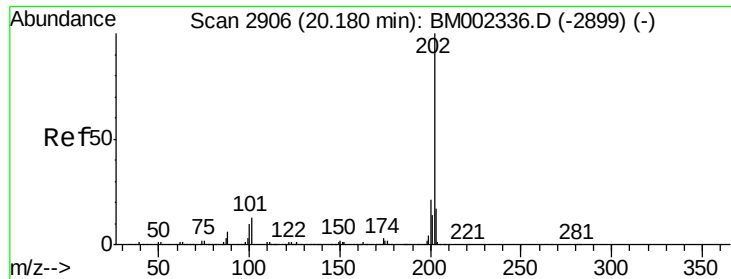
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#15  
Anthracene  
Concen: 1.06 ng/ul  
RT: 18.32 min Scan# 2590  
Delta R.T. 0.00 min  
Lab File: BM002343.D  
Acq: 12 Aug 2015 03:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.6  | 12.3  | 18.5  |
| 176     | 18.3  | 14.5  | 21.7  |





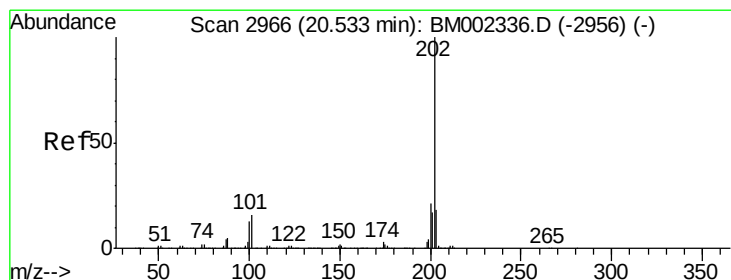
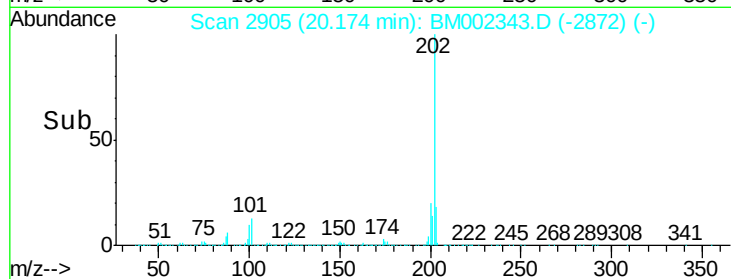
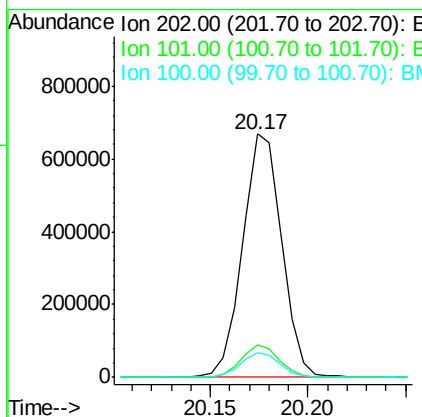
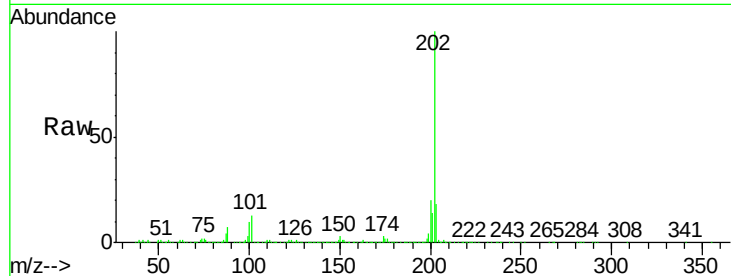
#16  
 Fluoranthene  
 Concen: 14.08 ng/ul  
 RT: 20.17 min Scan# 2905  
 Delta R.T. -0.01 min  
 Lab File: BM002343.D  
 Acq: 12 Aug 2015 03:43

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9C75

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 923617 |       |       |
| 101     | 13.4  | 10.6   | 15.8  |       |
| 100     | 10.4  | 8.2    | 12.4  |       |

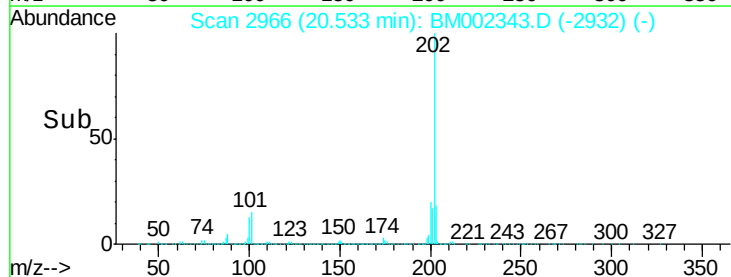
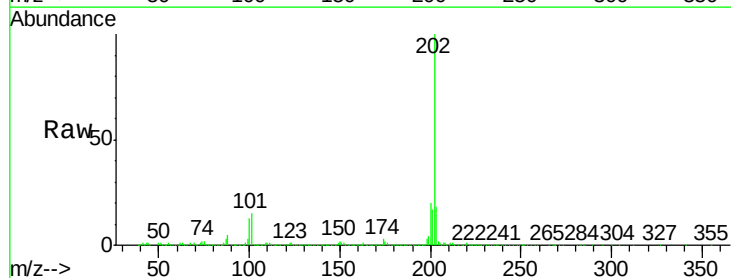
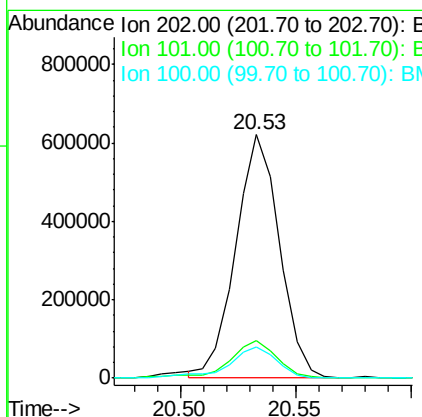
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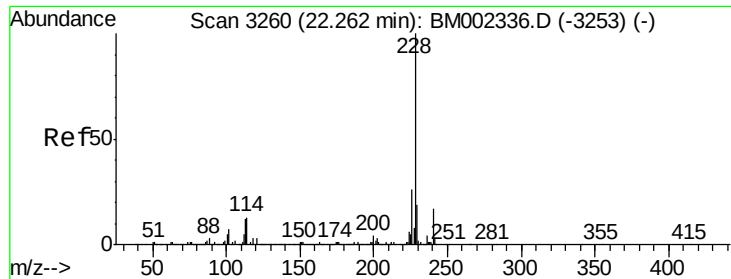
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#19  
 Pyrene  
 Concen: 16.80 ng/ul  
 RT: 20.53 min Scan# 2966  
 Delta R.T. 0.00 min  
 Lab File: BM002343.D  
 Acq: 12 Aug 2015 03:43

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 813679 |       |       |
| 101     | 15.4  | 13.0   | 19.6  |       |
| 100     | 12.6  | 11.0   | 16.4  |       |





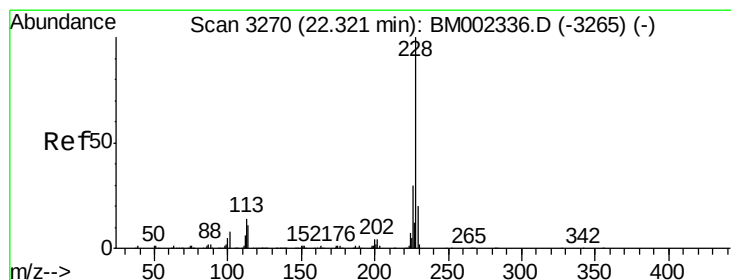
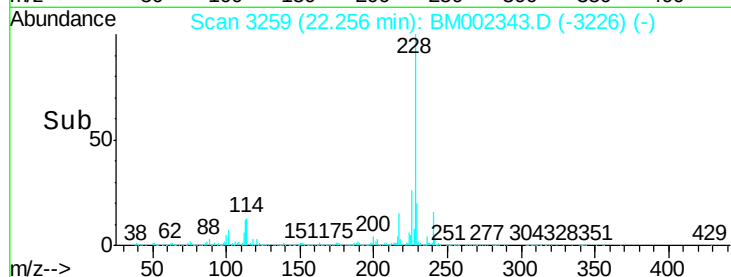
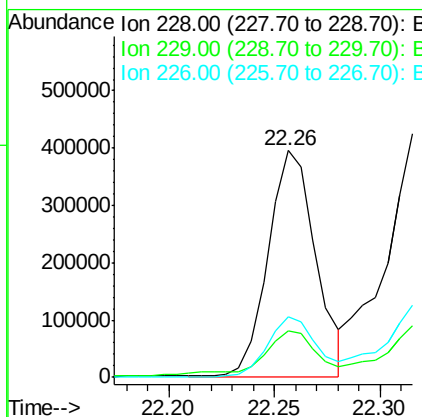
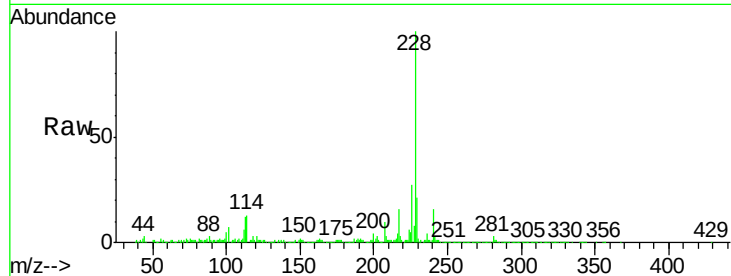
#20  
Benzo(a)anthracene  
Concen: 13.57 ng/ul  
RT: 22.26 min Scan# 3259  
Delta R.T. -0.01 min  
Lab File: BM002343.D  
Acq: 12 Aug 2015 03:43

Instrument :  
BNA\_M  
ClientSampleId :  
D9C75

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.6  | 15.7  | 23.5  |
| 226     | 26.5  | 21.4  | 32.0  |

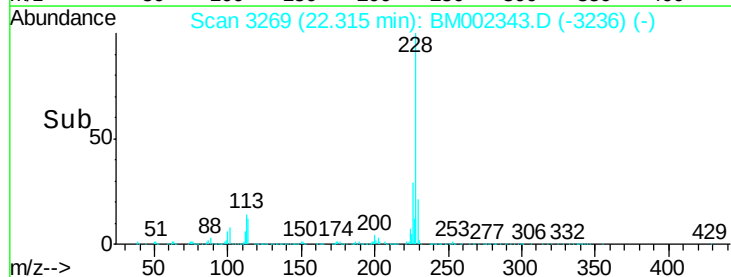
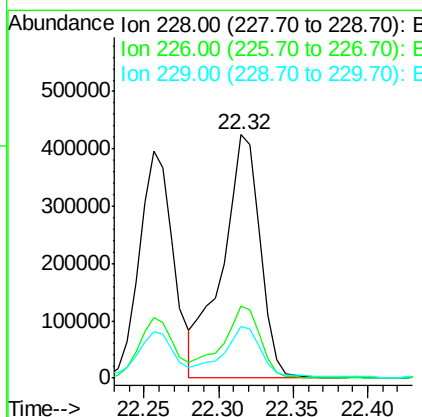
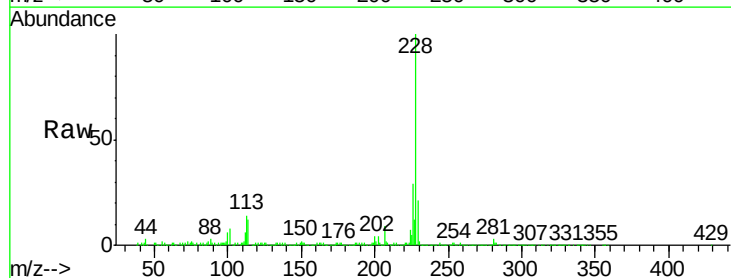
Manual Integrations  
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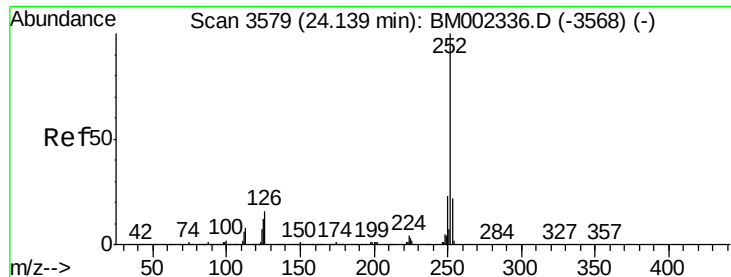
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#21  
Chrysene  
Concen: 17.27 ng/ul  
RT: 22.32 min Scan# 3269  
Delta R.T. -0.01 min  
Lab File: BM002343.D  
Acq: 12 Aug 2015 03:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.4  | 23.4  | 35.0  |
| 229     | 21.3  | 15.5  | 23.3  |





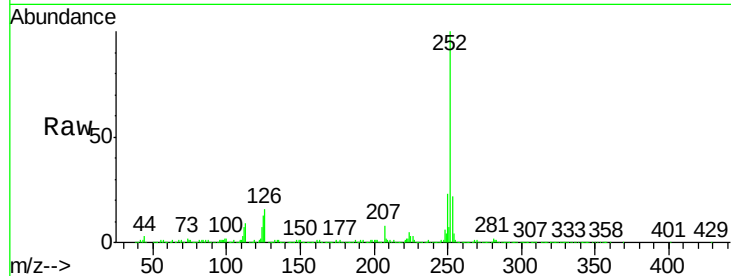
#23  
Benzo(b)fluoranthene  
Concen: 35.48 ng/ul  
RT: 24.14 min Scan# 3579  
Delta R.T. 0.00 min  
Lab File: BM002343.D  
Acq: 12 Aug 2015 03:43

Instrument :  
BNA\_M  
ClientSampleId :  
D9C75

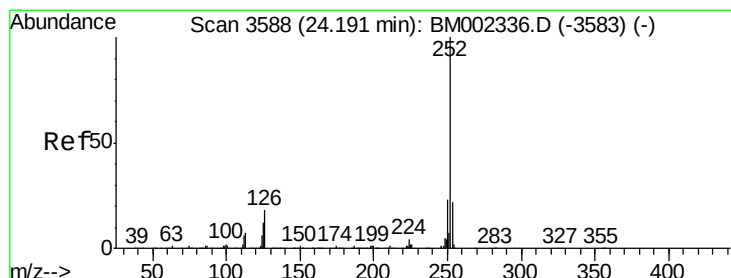
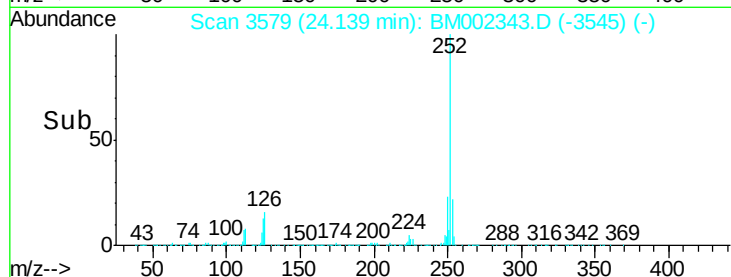
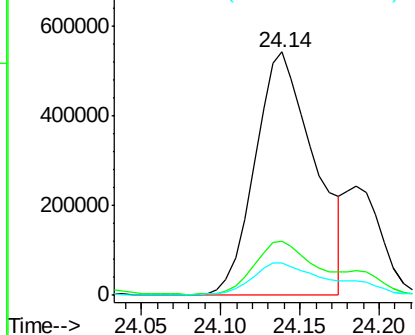
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 17.9  | 26.9  |
| 125     | 13.3  | 10.3  | 15.5  |

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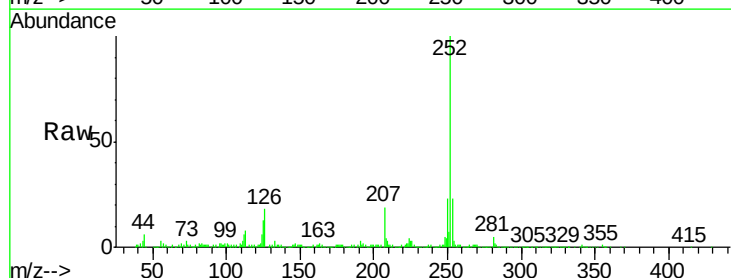


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

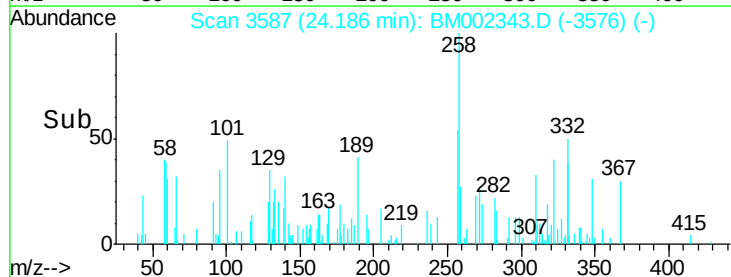
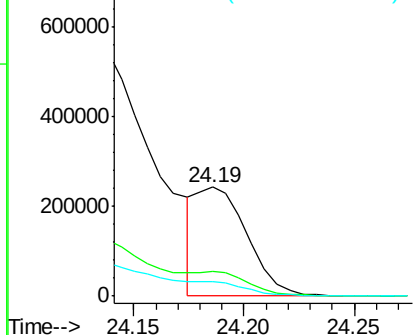


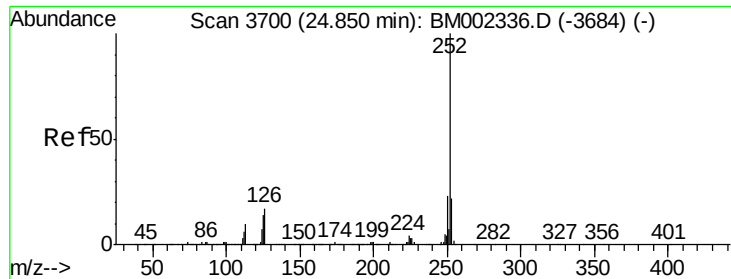
#24  
Benzo(k)fluoranthene  
Concen: 10.30 ng/ul m  
RT: 24.19 min Scan# 3587  
Delta R.T. -0.01 min  
Lab File: BM002343.D  
Acq: 12 Aug 2015 03:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 17.3  | 25.9  |
| 125     | 13.4  | 10.2  | 15.4  |



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





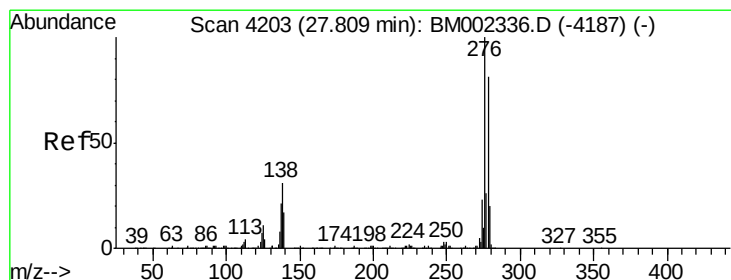
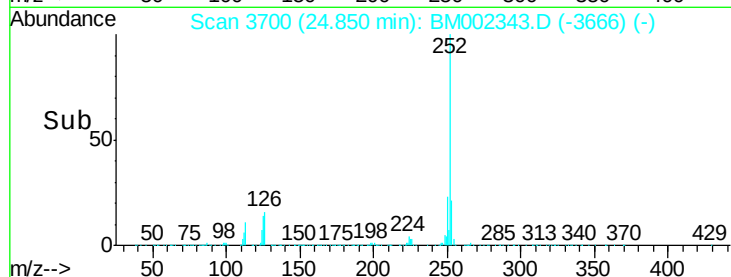
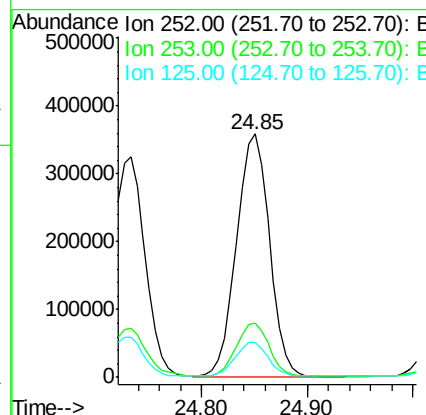
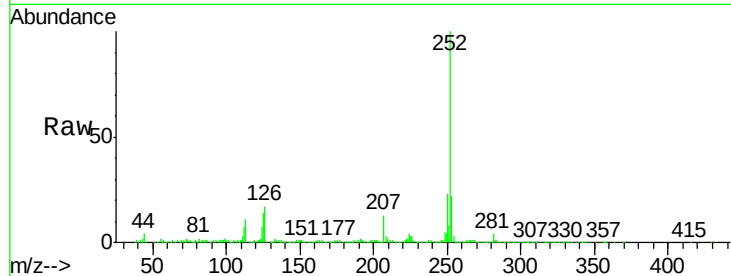
#26  
Benzo(a)pyrene  
Concen: 20.32 ng/ul  
RT: 24.85 min Scan# 3700  
Delta R.T. 0.00 min  
Lab File: BM002343.D  
Acq: 12 Aug 2015 03:43

Instrument :  
BNA\_M  
ClientSampleId :  
D9C75

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 771404 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.4  | 17.3  | 25.9   |
| 125       | 14.4  | 11.0  | 16.6   |

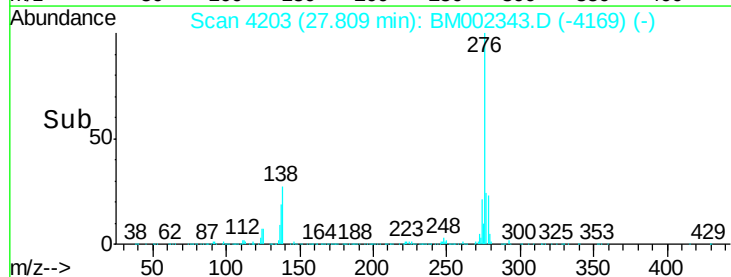
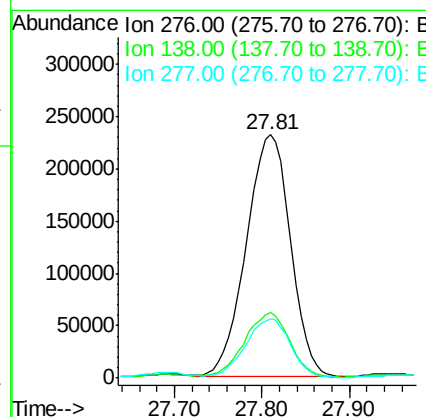
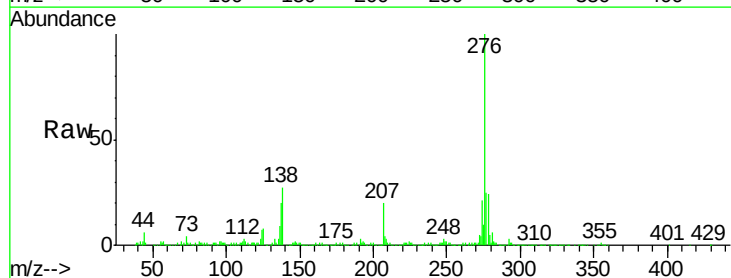
Manual Integrations  
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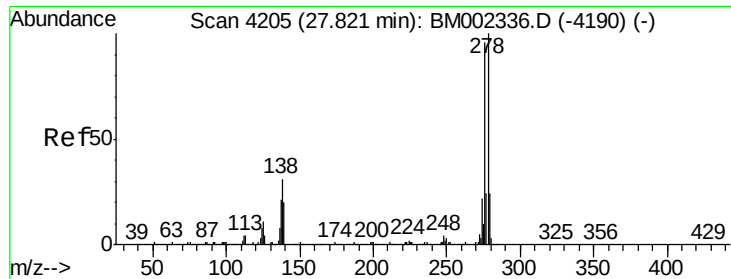
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#27  
Indeno(1,2,3-cd)pyrene  
Concen: 18.35 ng/ul  
RT: 27.81 min Scan# 4203  
Delta R.T. 0.00 min  
Lab File: BM002343.D  
Acq: 12 Aug 2015 03:43

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 798521 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 26.9  | 25.6  | 38.4   |
| 277       | 24.6  | 21.0  | 31.4   |





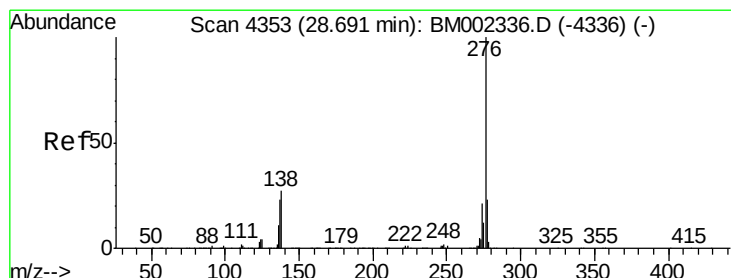
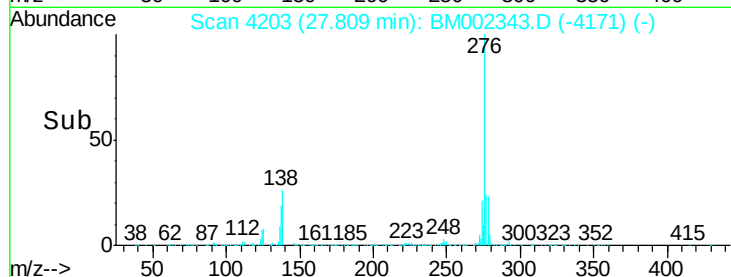
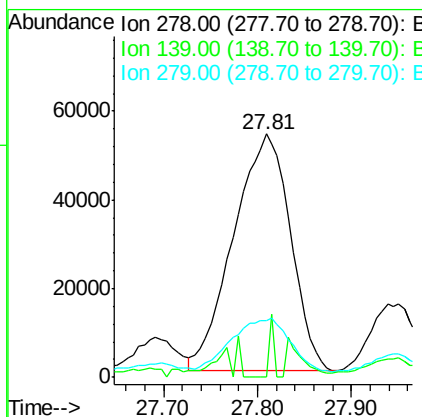
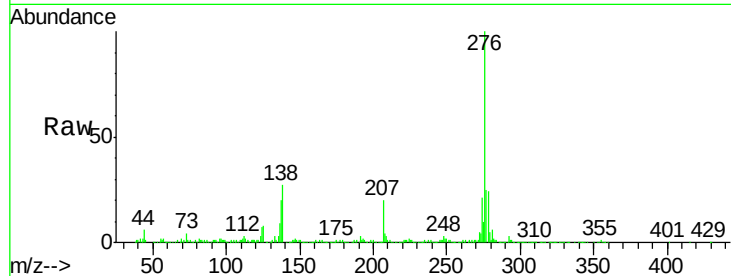
#28  
Dibenzo(a,h)anthracene  
Concen: 6.07 ng/ul  
RT: 27.81 min Scan# 4203  
Delta R.T. -0.01 min  
Lab File: BM002343.D  
Acq: 12 Aug 2015 03:43

Instrument :  
BNA\_M  
ClientSampleId :  
D9C75

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 16.4  | 24.6# |
| 279     | 23.0  | 18.8  | 28.2  |

Manual Integrations  
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#29  
Benzo(g,h,i)perylene  
Concen: 20.99 ng/ul  
RT: 28.69 min Scan# 4353  
Delta R.T. 0.00 min  
Lab File: BM002343.D  
Acq: 12 Aug 2015 03:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 27.7  | 20.5  | 30.7  |
| 277     | 23.9  | 19.0  | 28.6  |

