

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM031017\  
 Data File : BM009196.D  
 Acq On : 11 Mar 2017 03:43  
 Operator : SJ/MA  
 Sample : I2072-06  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AK1

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mohammad  
 3/13/2017 2:15:20 PM

Quant Time: Mar 11 05:30:36 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM030317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Mar 11 02:23:19 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.88  | 152  | 225      | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.68 | 136  | 752      | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.52 | 164  | 437      | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.26 | 188  | 1042m    | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.44 | 240  | 1144     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.77 | 264  | 1237m    | 0.40 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.27 | 152  | 260      | 0.21 | ng/ul | 0.00     |
| 14) Fluoranthene-d10        | 19.29 | 212  | 690      | 0.21 | ng/ul | 0.00     |

| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 10.73 | 128  | 472      | 0.22 | ng/ul# | 75     |
| 5) 2-Methylnaphthalene     | 12.34 | 142  | 314      | 0.20 | ng/ul  | 99     |
| 12) Phenanthrene           | 17.30 | 178  | 3671     | 1.12 | ng/ul  | 98     |
| 13) Anthracene             | 17.40 | 178  | 298      | 0.09 | ng/ul# | 63     |
| 15) Fluoranthene           | 19.33 | 202  | 5179     | 1.21 | ng/ul  | 93     |
| 17) Pyrene                 | 19.69 | 202  | 6675     | 1.70 | ng/ul  | 96     |
| 18) Benzo(a)anthracene     | 21.42 | 228  | 2650     | 0.70 | ng/ul  | 96     |
| 19) Chrysene               | 21.47 | 228  | 3100m    | 0.86 | ng/ul  |        |
| 21) Benzo(b)fluoranthene   | 23.07 | 252  | 3995m    | 0.82 | ng/ul  |        |
| 22) Benzo(k)fluoranthene   | 23.11 | 252  | 1137m    | 0.26 | ng/ul  |        |
| 23) Benzo(a)pyrene         | 23.67 | 252  | 1714m    | 0.39 | ng/ul  |        |
| 24) Indeno(1,2,3-cd)pyrene | 26.15 | 276  | 1654m    | 0.30 | ng/ul  |        |
| 25) Dibenzo(a,h)anthracene | 26.16 | 278  | 483m     | 0.10 | ng/ul  |        |
| 26) Benzo(g,h,i)perylene   | 26.89 | 276  | 1472m    | 0.31 | ng/ul  |        |

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

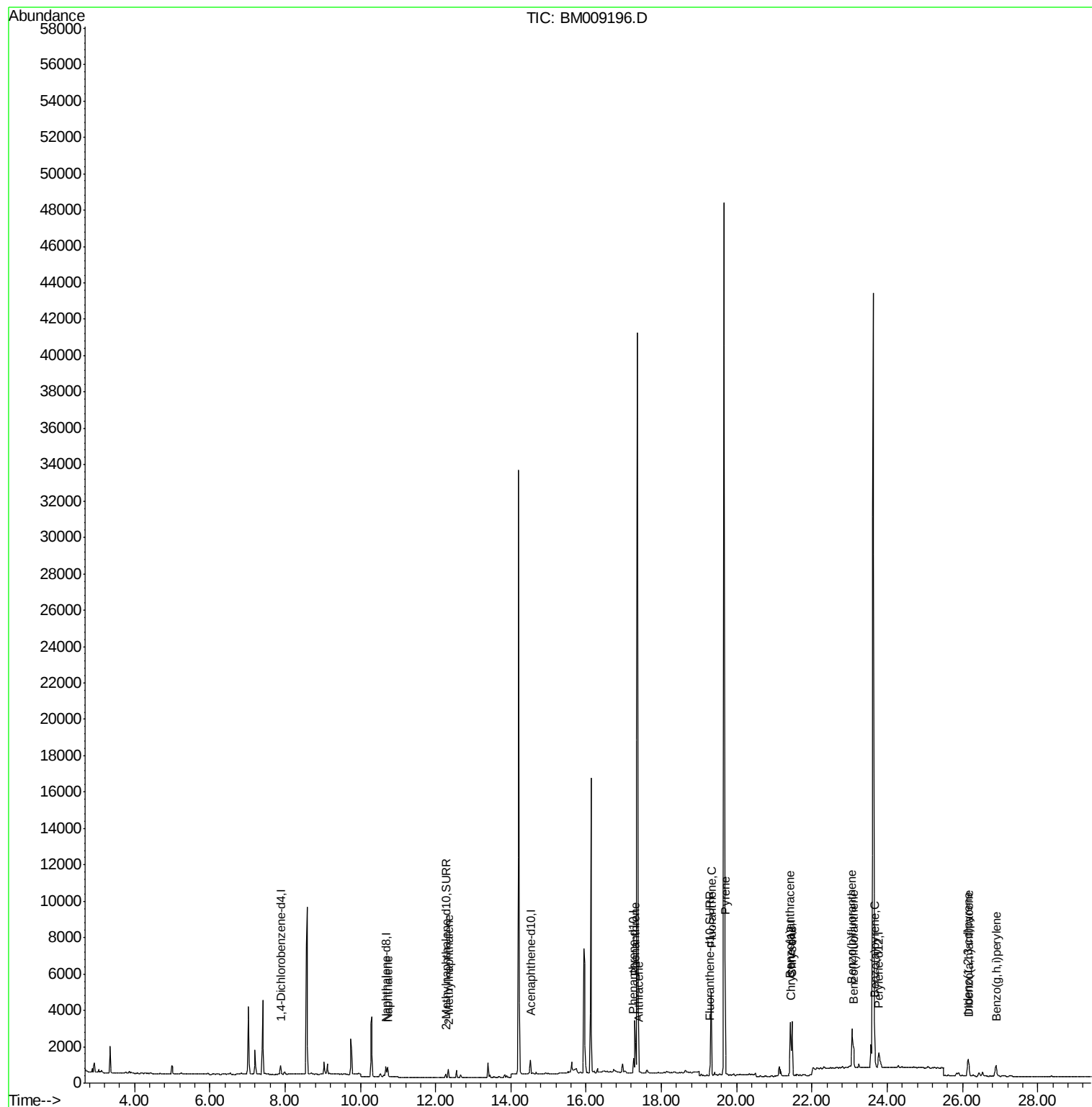
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM031017\  
Data File : BM009196.D  
Acq On : 11 Mar 2017 03:43  
Operator : SJ/MA  
Sample : I2072-06  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

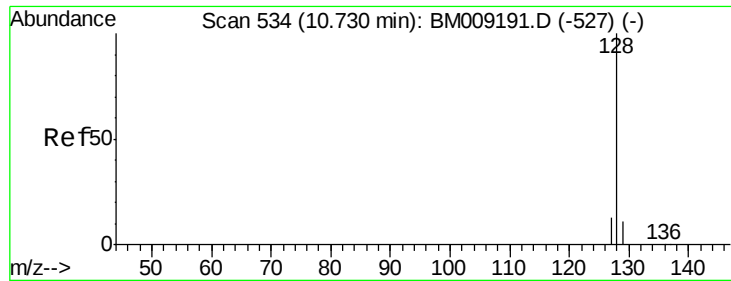
Instrument :  
BNA\_M  
ClientSampleId :  
C0AK1

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Quant Time: Mar 11 05:30:36 2017  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM030317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Mar 11 02:23:19 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.22 ng/ul

RT: 10.73 min Scan# 534

Delta R.T. -0.00 min

Lab File: BM009196.D

Acq: 11 Mar 2017 03:43

Instrument :

BNA\_M

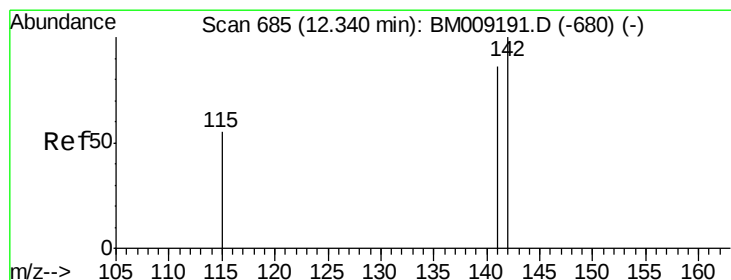
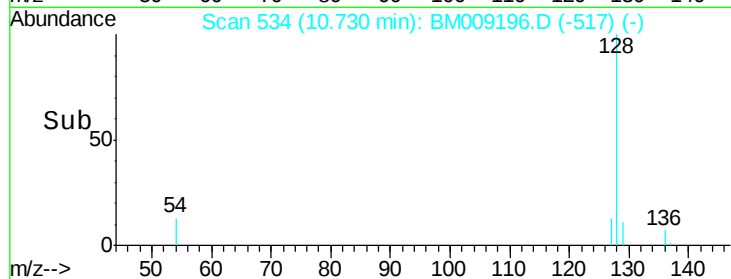
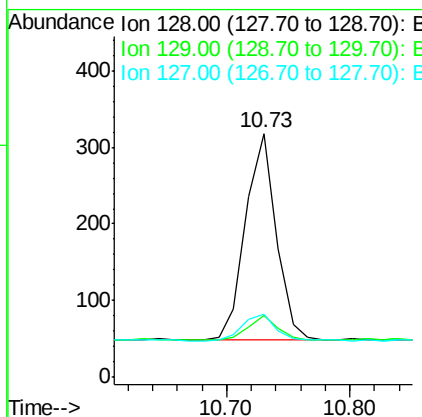
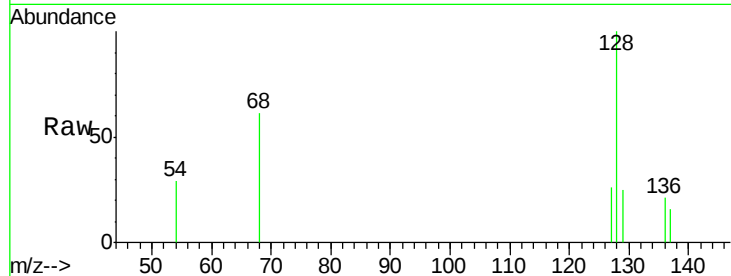
ClientSampleId :

C0AK1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 472   |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 25.2  | 11.3  | 16.9# |
| 127       | 25.8  | 12.8  | 19.2# |

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#5

2-Methylnaphthalene

Concen: 0.20 ng/ul

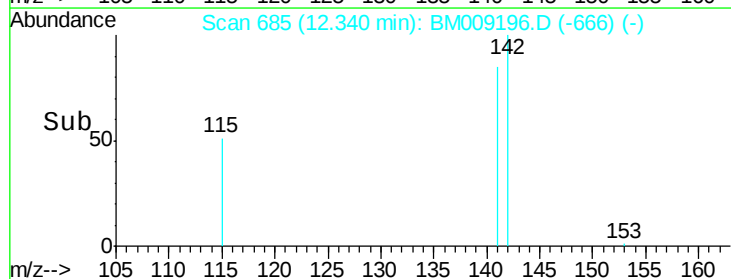
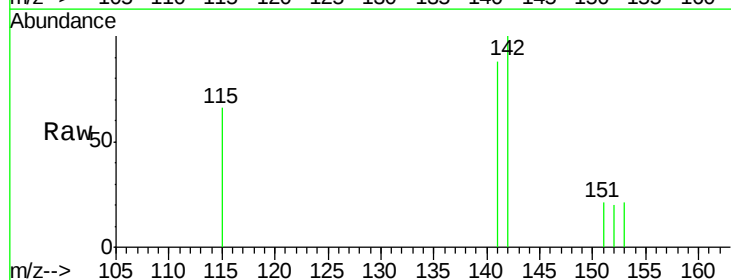
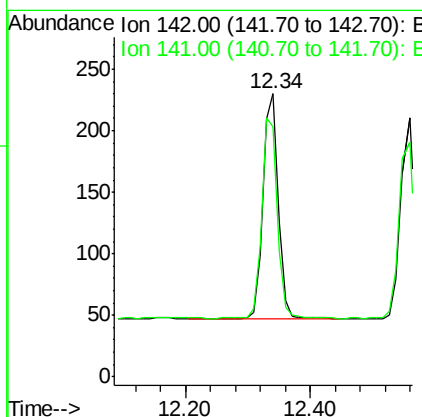
RT: 12.34 min Scan# 685

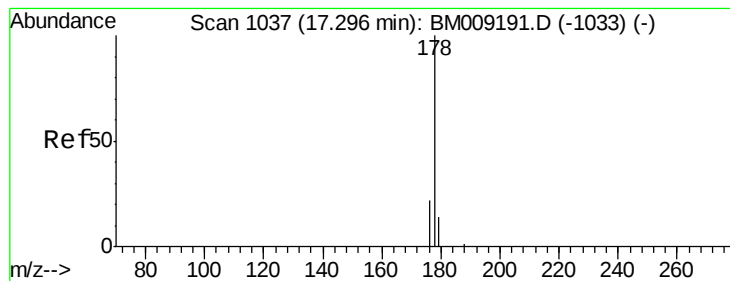
Delta R.T. -0.00 min

Lab File: BM009196.D

Acq: 11 Mar 2017 03:43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 314   |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 91.7  | 72.6  | 108.8 |





#12

Phenanthrene

Concen: 1.12 ng/ul

RT: 17.30 min Scan# 1037

Delta R.T. -0.00 min

Lab File: BM009196.D

Acq: 11 Mar 2017 03:43

Instrument :

BNA\_M

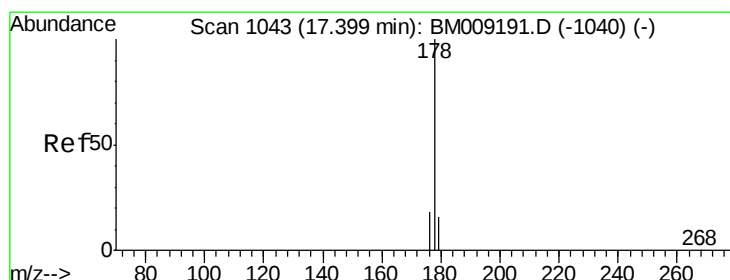
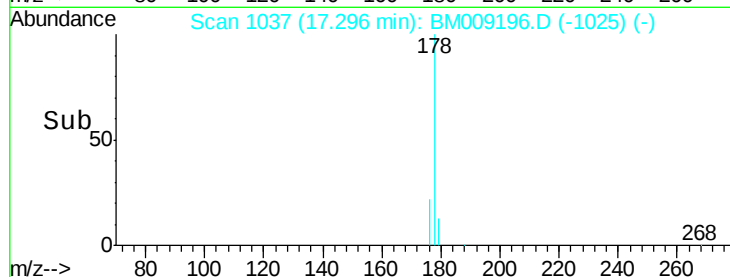
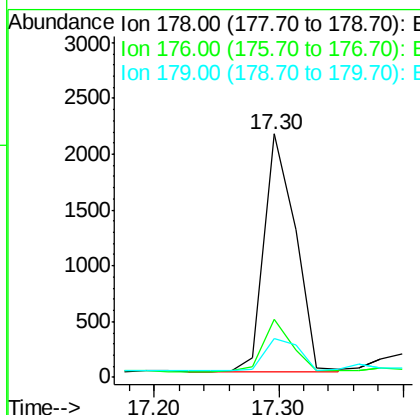
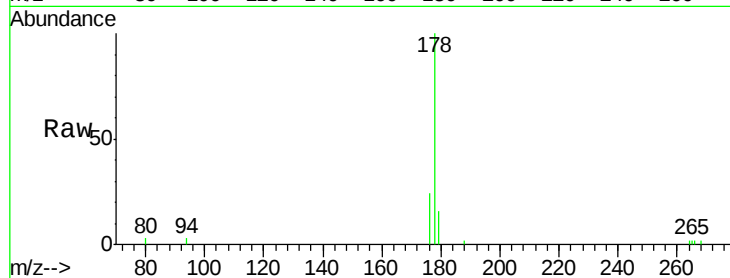
ClientSampled :

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|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 3671 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 176       | 24.1  | 18.4  | 27.6 |
| 179       | 15.8  | 13.6  | 20.4 |

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#13

Anthracene

Concen: 0.09 ng/ul

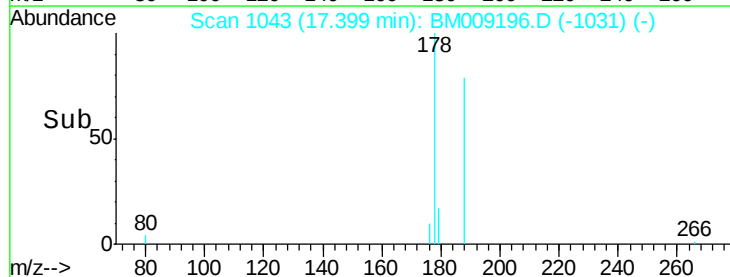
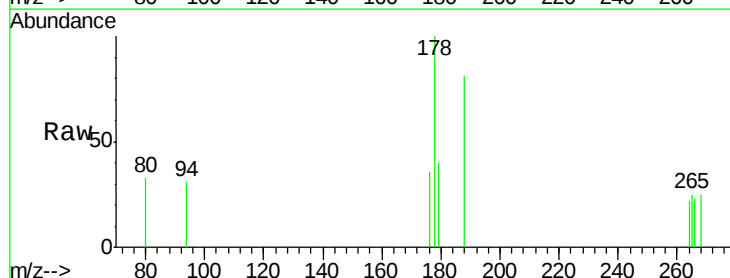
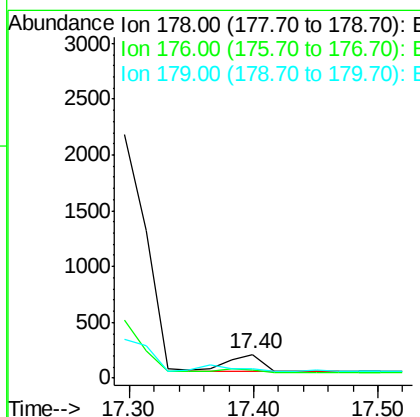
RT: 17.40 min Scan# 1043

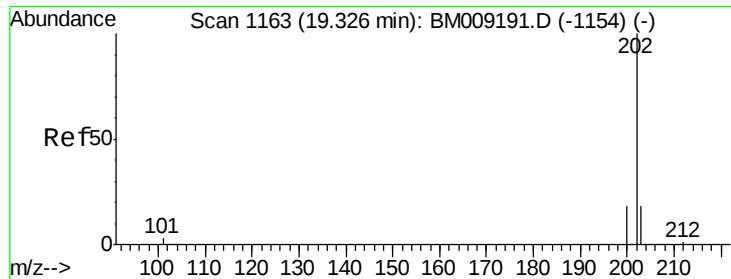
Delta R.T. -0.00 min

Lab File: BM009196.D

Acq: 11 Mar 2017 03:43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 298   |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 35.5  | 18.1  | 27.1# |
| 179       | 40.3  | 14.7  | 22.1# |





#15

Fluoranthene

Concen: 1.21 ng/ul

RT: 19.33 min Scan# 1163

Delta R.T. -0.00 min

Lab File: BM009196.D

Acq: 11 Mar 2017 03:43

Instrument :

BNA\_M

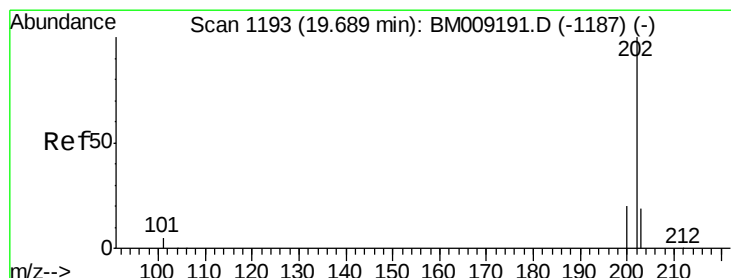
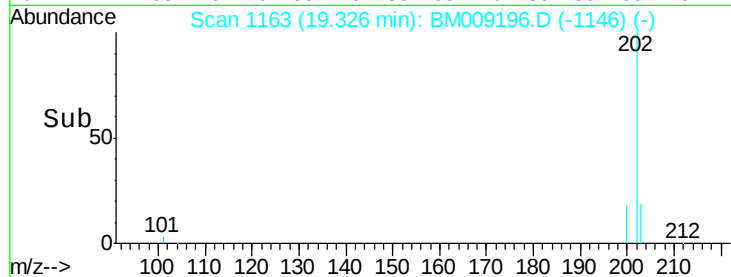
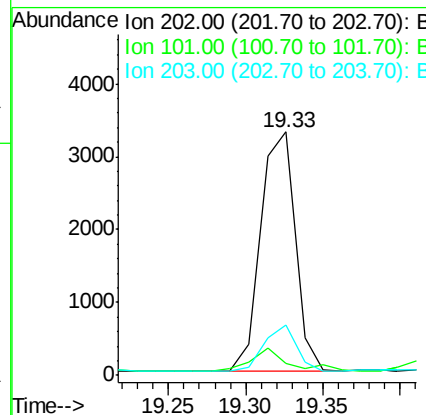
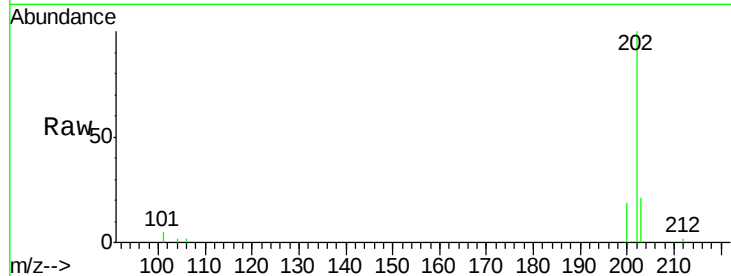
ClientSampleId :

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|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 5179 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 5.0   | 0.0   | 30.3 |
| 203       | 20.7  | 0.0   | 39.5 |

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#17

Pyrene

Concen: 1.70 ng/ul

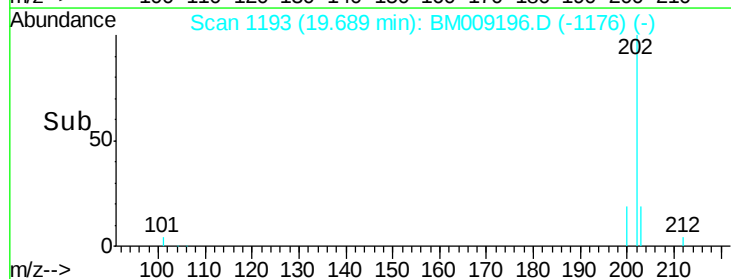
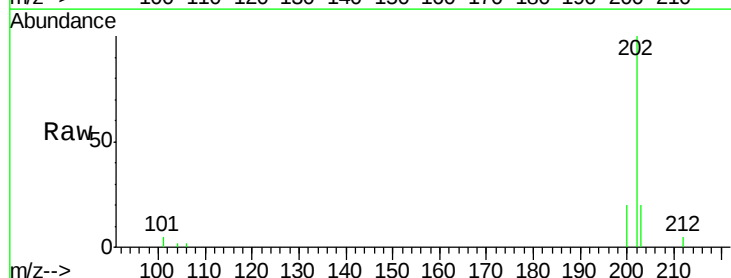
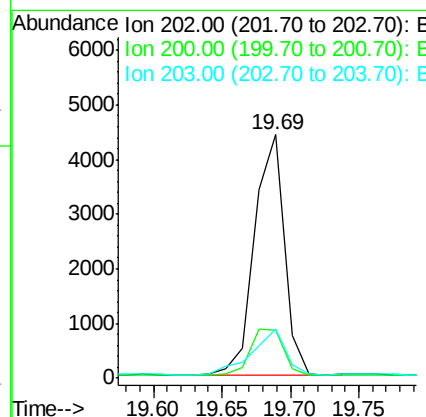
RT: 19.69 min Scan# 1193

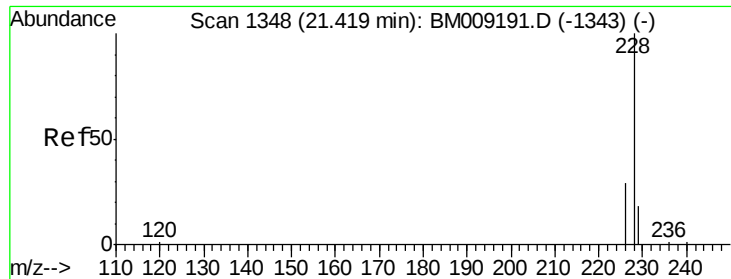
Delta R.T. -0.00 min

Lab File: BM009196.D

Acq: 11 Mar 2017 03:43

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 6675 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 200       | 19.6  | 18.2  | 27.4 |
| 203       | 20.2  | 15.6  | 23.4 |





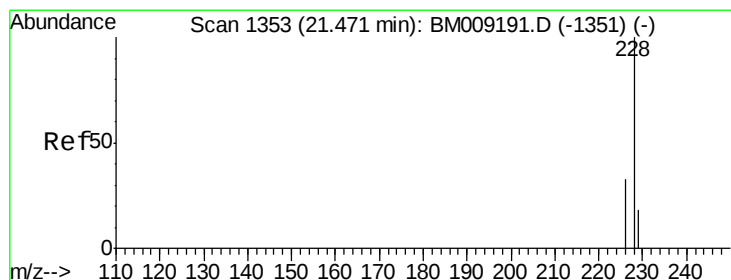
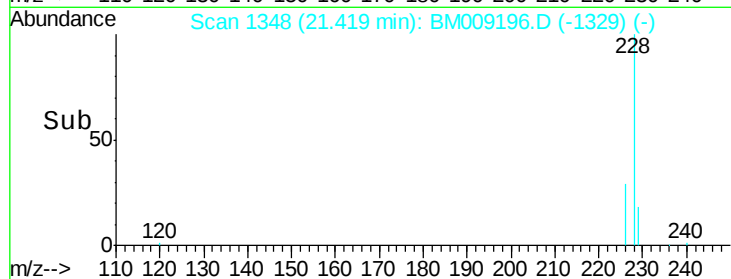
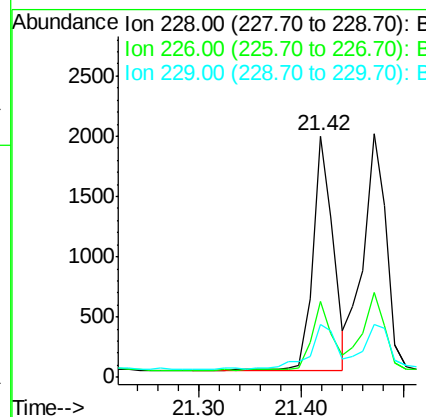
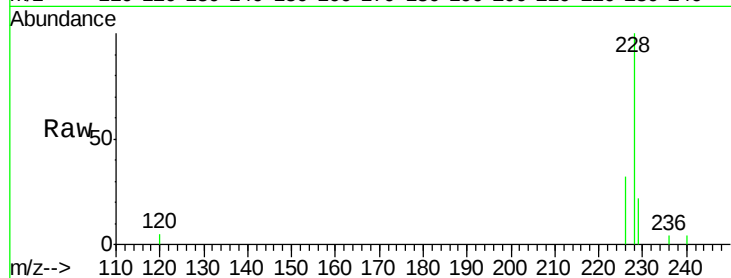
#18  
Benzo(a)anthracene  
Concen: 0.70 ng/ul  
RT: 21.42 min Scan# 1348  
Delta R.T. -0.00 min  
Lab File: BM009196.D  
Acq: 11 Mar 2017 03:43

Instrument :  
BNA\_M  
ClientSampled :  
C0AK1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.6  | 22.8  | 34.2  |
| 229     | 21.7  | 17.0  | 25.6  |

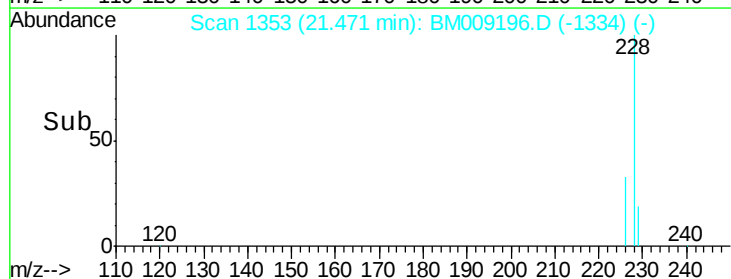
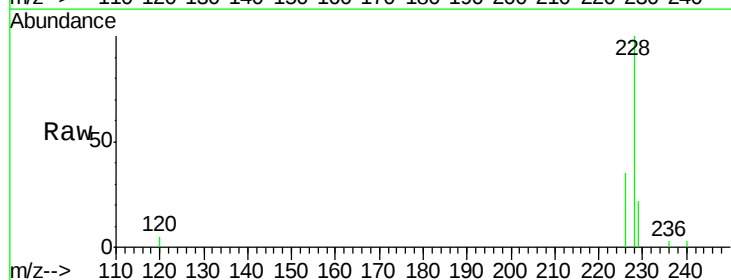
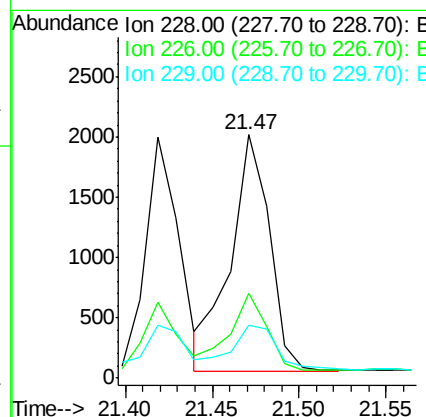
Manual Integrations  
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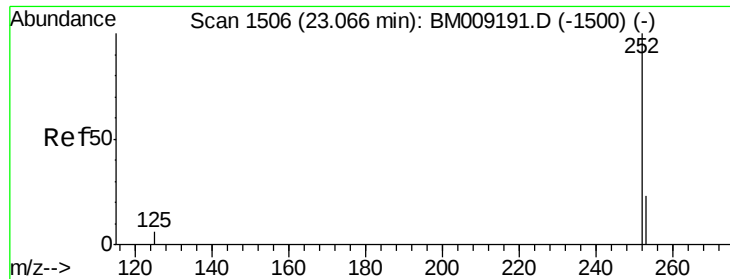
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#19  
Chrysene  
Concen: 0.86 ng/ul m  
RT: 21.47 min Scan# 1353  
Delta R.T. -0.00 min  
Lab File: BM009196.D  
Acq: 11 Mar 2017 03:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 35.1  | 23.4  | 35.0# |
| 229     | 21.6  | 17.7  | 26.5  |





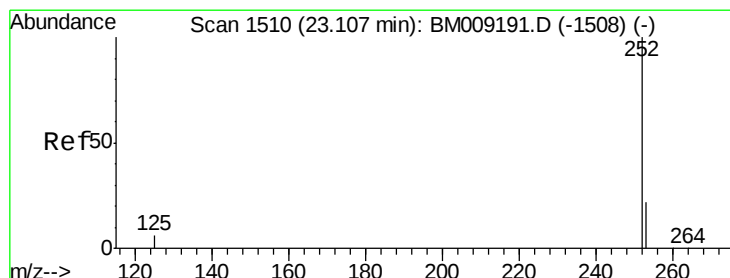
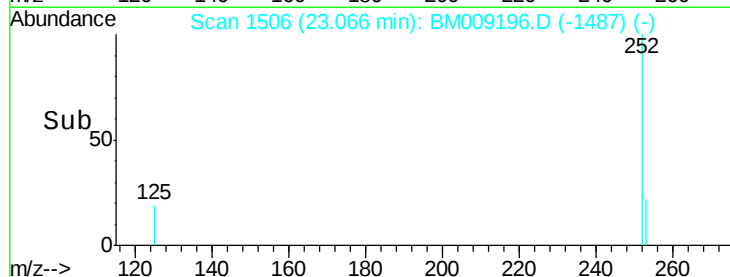
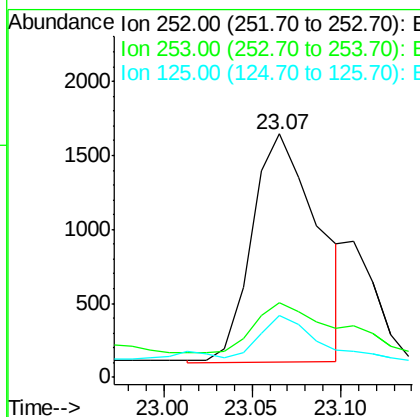
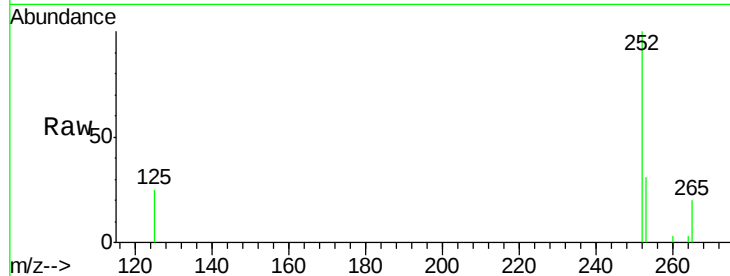
#21  
Benzo(b)fluoranthene  
Concen: 0.82 ng/ul m  
RT: 23.07 min Scan# 1506  
Delta R.T. -0.00 min  
Lab File: BM009196.D  
Acq: 11 Mar 2017 03:43

Instrument :  
BNA\_M  
ClientSampleId :  
C0AK1

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 252     | 100   | 3995 |       |       |
| 253     | 30.7  | 0.0  | 64.2  |       |
| 125     | 25.3  | 0.0  | 35.0  |       |

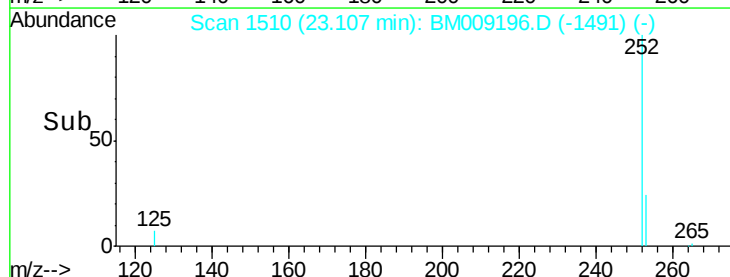
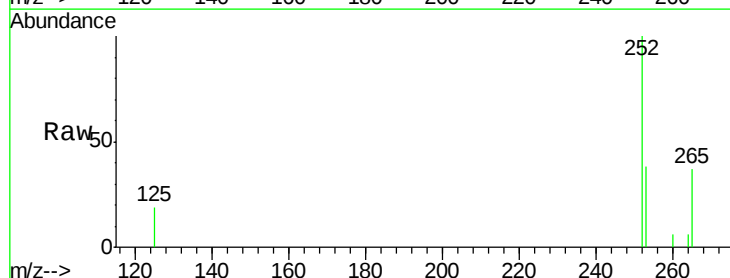
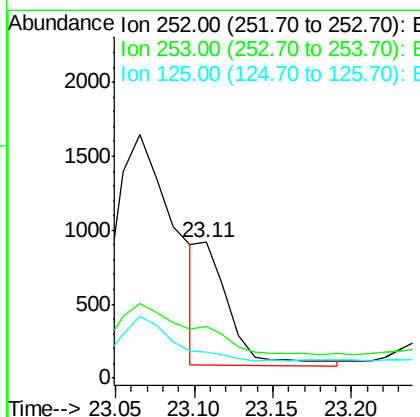
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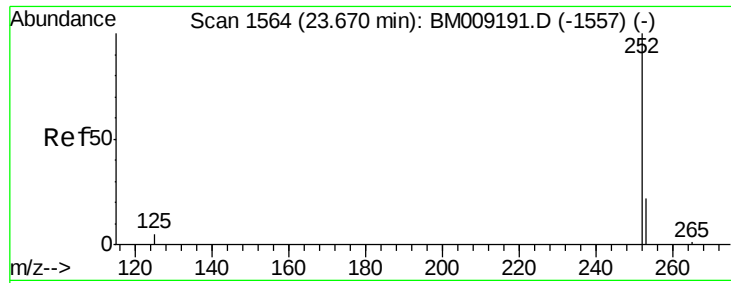
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#22  
Benzo(k)fluoranthene  
Concen: 0.26 ng/ul m  
RT: 23.11 min Scan# 1510  
Delta R.T. -0.00 min  
Lab File: BM009196.D  
Acq: 11 Mar 2017 03:43

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 252     | 100   | 1137 |       |       |
| 253     | 38.5  | 24.5 | 36.7# |       |
| 125     | 19.3  | 13.7 | 20.5  |       |





#23

Benzo(a)pyrene

Concen: 0.39 ng/ul m

RT: 23.67 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BM009196.D

Acq: 11 Mar 2017 03:43

Instrument :

BNA\_M

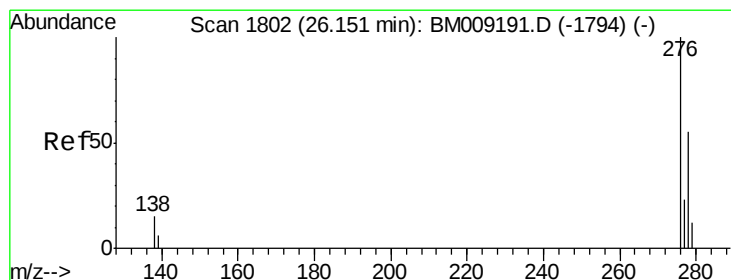
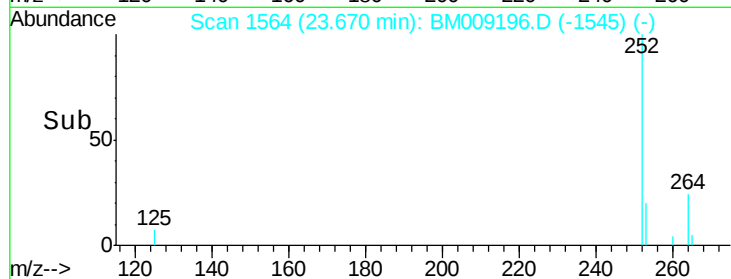
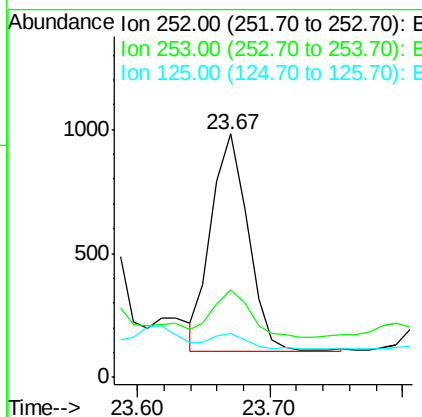
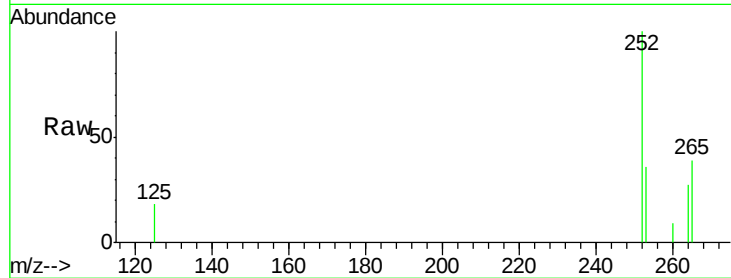
ClientSampleId :

C0AK1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 1714  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 36.2  | 28.5  | 42.7  |
| 125       | 18.0  | 18.1  | 27.1# |

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#24

Indeno(1,2,3-cd)pyrene

Concen: 0.30 ng/ul m

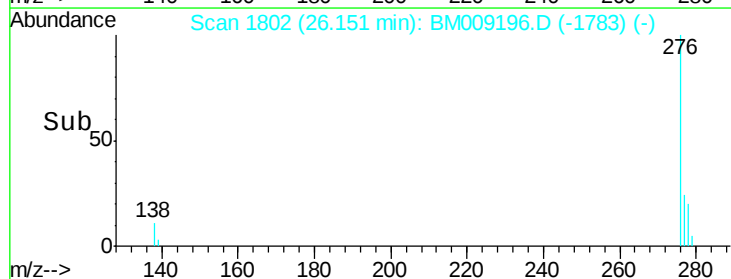
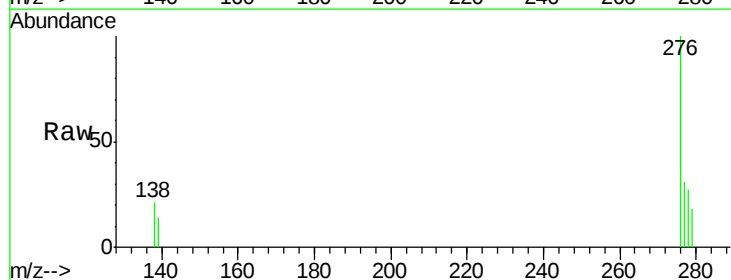
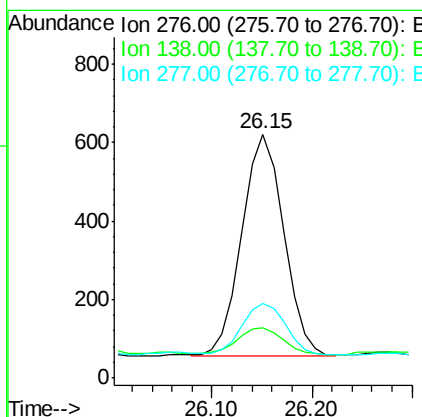
RT: 26.15 min Scan# 1802

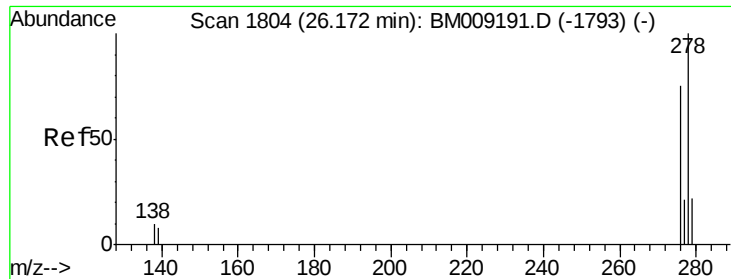
Delta R.T. -0.00 min

Lab File: BM009196.D

Acq: 11 Mar 2017 03:43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 1654  |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 1.7   | 19.1  | 28.7# |
| 277       | 0.5   | 19.6  | 29.4# |





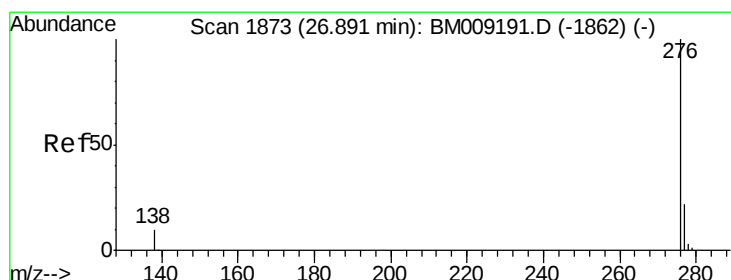
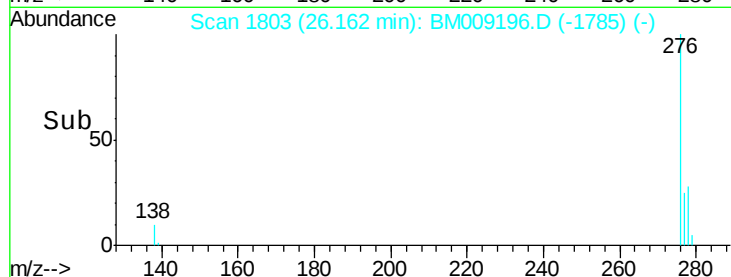
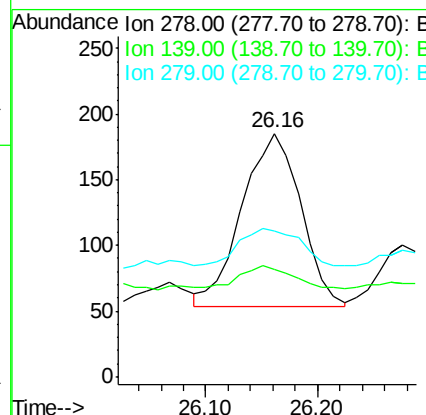
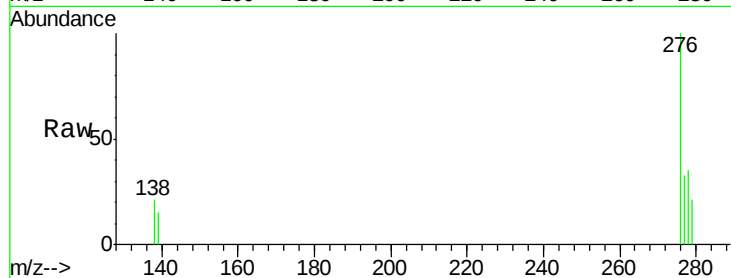
#25  
Dibenzo(a,h)anthracene  
Concen: 0.10 ng/ul m  
RT: 26.16 min Scan# 1803  
Delta R.T. -0.01 min  
Lab File: BM009196.D  
Acq: 11 Mar 2017 03:43

Instrument :  
BNA\_M  
ClientSampleId :  
C0AK1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 483   |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 44.3  | 17.4  | 26.0# |
| 279       | 60.0  | 25.9  | 38.9# |

Manual Integrations  
APPROVED

mohammad  
3/13/2017 2:15:20 PM



#26  
Benzo(g,h,i)perylene  
Concen: 0.31 ng/ul m  
RT: 26.89 min Scan# 1873  
Delta R.T. -0.00 min  
Lab File: BM009196.D  
Acq: 11 Mar 2017 03:43

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 1472 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 277       | 32.2  | 21.8  | 32.8 |
| 138       | 22.3  | 20.5  | 30.7 |

