

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM083115\  
 Data File : BM002612.D  
 Acq On : 01 Sep 2015 05:08  
 Operator : UM/IZ  
 Sample : G3457-03MSD  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9EA4MSD

Manual Integrations  
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 9/1/2015 2:58:32 PM

Quant Time: Sep 01 05:42:13 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM081415MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Sep 01 02:00:58 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|--------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.78  | 152  | 130398   | 20.00 | ng/ul  | 0.00      |
| 2) Naphthalene-d8           | 11.65 | 136  | 596293   | 20.00 | ng/ul  | 0.00      |
| 6) Acenaphthene-d10         | 15.37 | 164  | 306389   | 20.00 | ng/ul  | 0.00      |
| 12) Phenanthrene-d10        | 18.07 | 188  | 603209   | 20.00 | ng/ul  | 0.00      |
| 17) Chrysene-d12            | 22.16 | 240  | 451207   | 20.00 | ng/ul  | 0.00      |
| 22) Perylene-d12            | 24.79 | 264  | 426741   | 20.00 | ng/ul  | 0.00      |
| System Monitoring Compounds |       |      |          |       |        |           |
| 7) Acenaphthylene-d8        | 15.07 | 160  | 579638   | 18.50 | ng/ul  | 0.00      |
| 10) Fluorene-d10            | 16.34 | 176  | 377598   | 17.16 | ng/ul  | 0.00      |
| 14) Anthracene-d10          | 18.17 | 188  | 525291   | 18.05 | ng/ul  | 0.00      |
| 18) Pyrene-d10              | 20.40 | 212  | 446340   | 22.32 | ng/ul  | 0.00      |
| 25) Benzo(a)pyrene-d12      | 24.61 | 264  | 329242   | 14.69 | ng/ul  | 0.00      |
| Target Compounds            |       |      |          |       |        |           |
| 9) Acenaphthene             | 15.43 | 153  | 462366   | 21.41 | ng/ul  | Qvalue 99 |
| 13) Phenanthrene            | 18.12 | 178  | 142964   | 4.10  | ng/ul  | 99        |
| 16) Fluoranthene            | 20.07 | 202  | 288472   | 7.32  | ng/ul  | 95        |
| 19) Pyrene                  | 20.43 | 202  | 969628   | 36.68 | ng/ul  | 97        |
| 20) Benzo(a)anthracene      | 22.14 | 228  | 119942   | 4.45  | ng/ul  | 98        |
| 21) Chrysene                | 22.20 | 228  | 138106   | 5.47  | ng/ul  | 96        |
| 23) Benzo(b)fluoranthene    | 23.97 | 252  | 203066   | 7.87  | ng/ul  | 95        |
| 24) Benzo(k)fluoranthene    | 24.02 | 252  | 79007m   | 3.23  | ng/ul  |           |
| 26) Benzo(a)pyrene          | 24.67 | 252  | 125155   | 5.08  | ng/ul# | 94        |
| 27) Indeno(1,2,3-cd)pyrene  | 27.54 | 276  | 98594    | 3.48  | ng/ul  | 95        |
| 28) Dibenzo(a,h)anthracene  | 27.54 | 278  | 27847    | 1.18  | ng/ul# | 66        |
| 29) Benzo(g,h,i)perylene    | 28.41 | 276  | 86413    | 3.66  | ng/ul  | 94        |

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

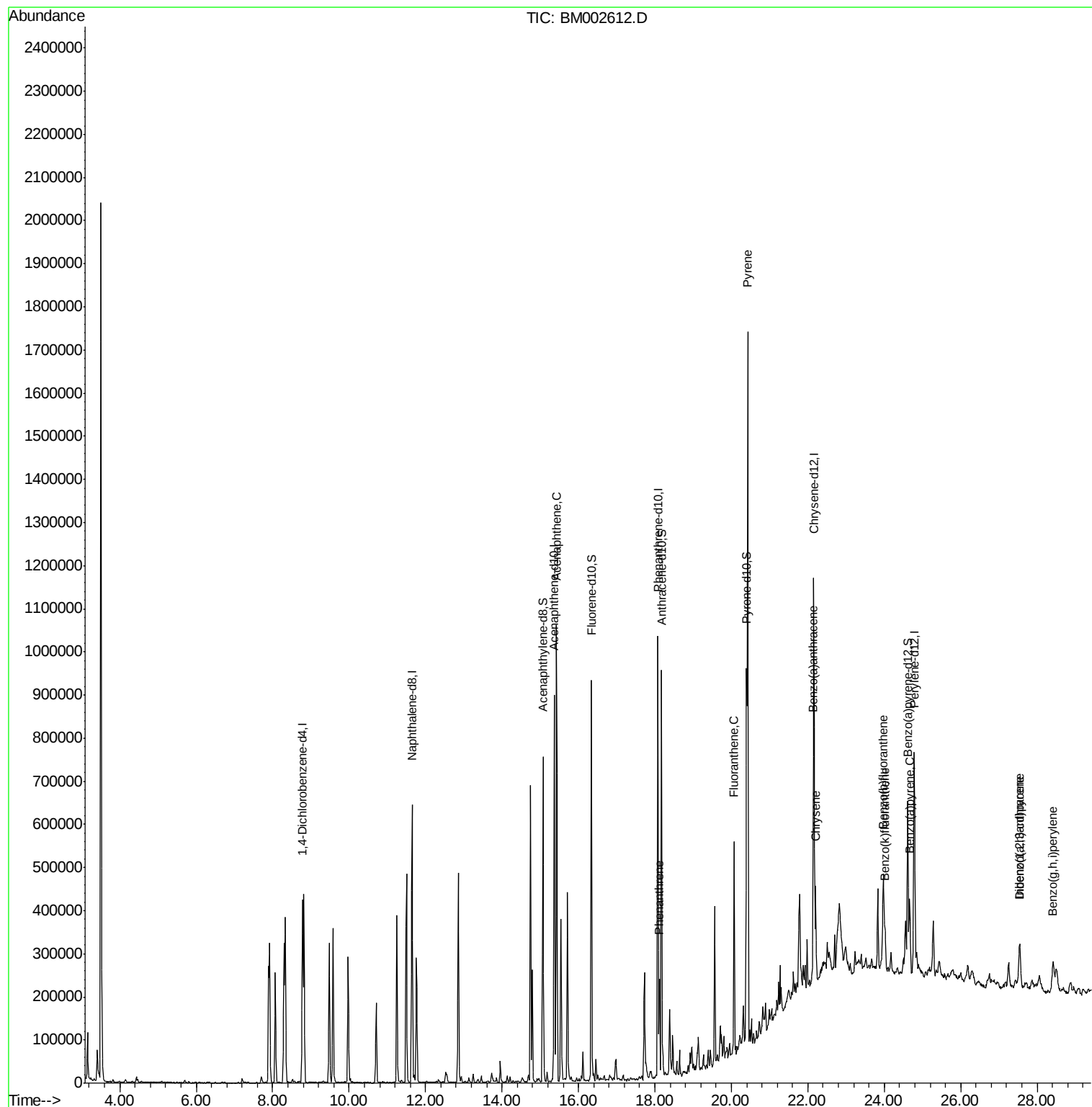
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM083115\  
Data File : BM002612.D  
Acq On : 01 Sep 2015 05:08  
Operator : UM/IZ  
Sample : G3457-03MSD  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

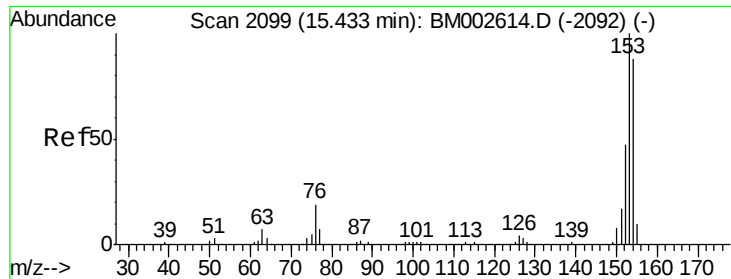
Instrument :  
BNA\_M  
ClientSampleId :  
D9EA4MSD

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Quant Time: Sep 01 05:42:13 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM081415MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Sep 01 02:00:58 2015  
Response via : Initial Calibration





#9

Acenaphthene

Concen: 21.41 ng/ul

RT: 15.43 min Scan# 2099

Delta R.T. 0.00 min

Lab File: BM002612.D

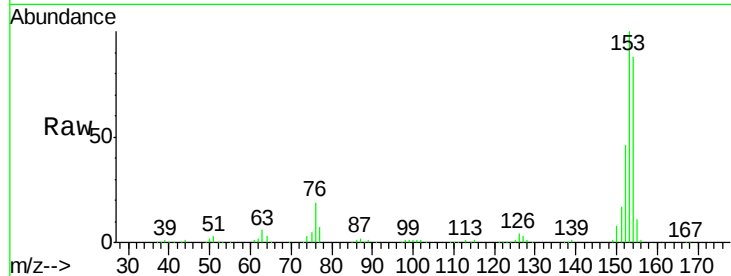
Acq: 01 Sep 2015 05:08

Instrument :

BNA\_M

ClientSampleId :

D9EA4MSD



Tgt Ion:153 Resp: 462366

Ion Ratio Lower Upper

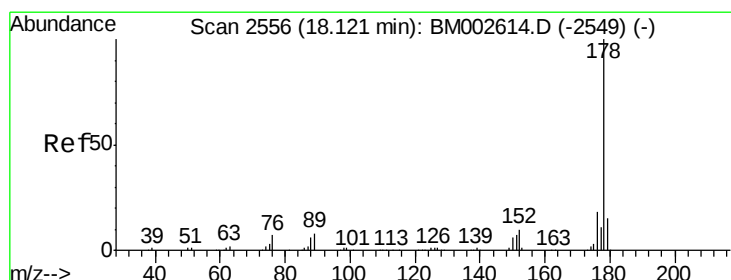
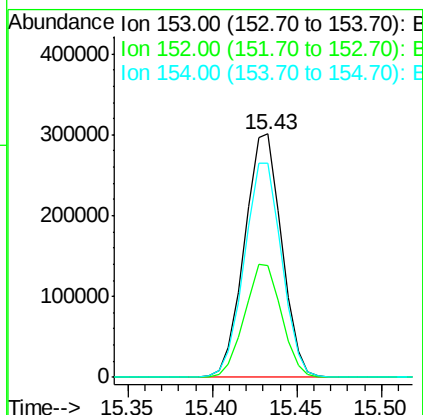
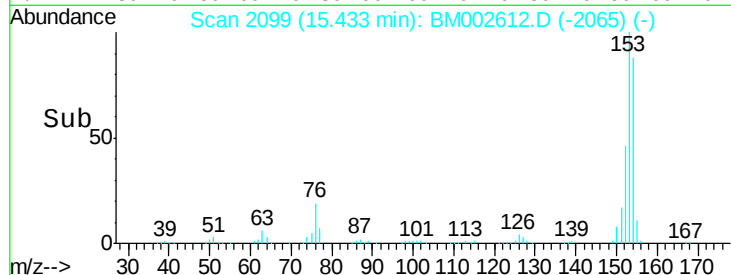
153 100

152 46.0 36.9 55.3

154 87.9 71.3 106.9

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#13

Phenanthrene

Concen: 4.10 ng/ul

RT: 18.12 min Scan# 2555

Delta R.T. -0.01 min

Lab File: BM002612.D

Acq: 01 Sep 2015 05:08

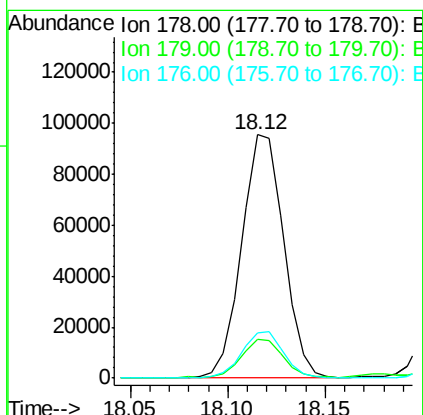
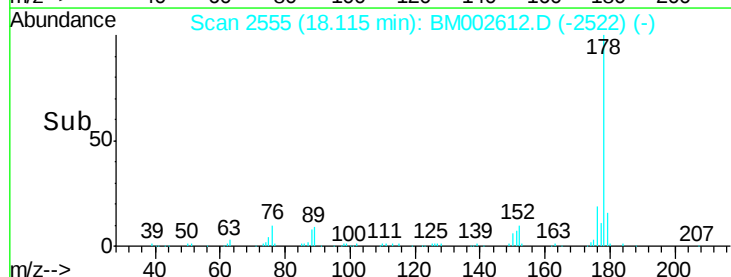
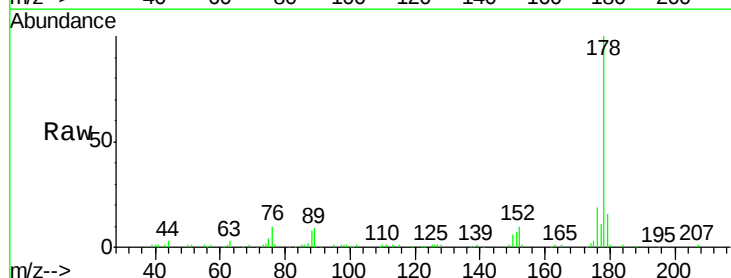
Tgt Ion:178 Resp: 142964

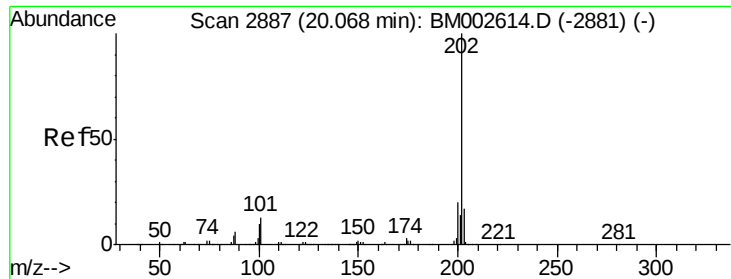
Ion Ratio Lower Upper

178 100

179 15.9 12.4 18.6

176 18.5 15.1 22.7





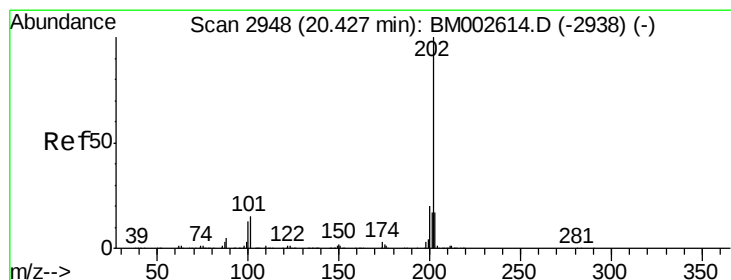
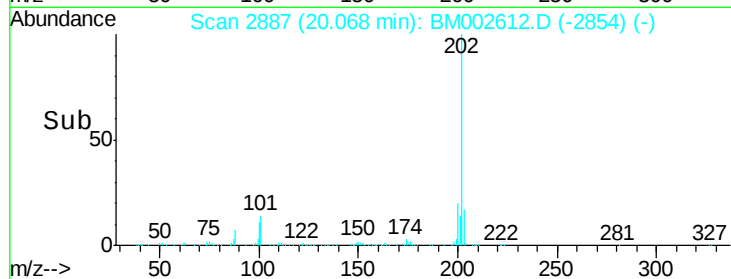
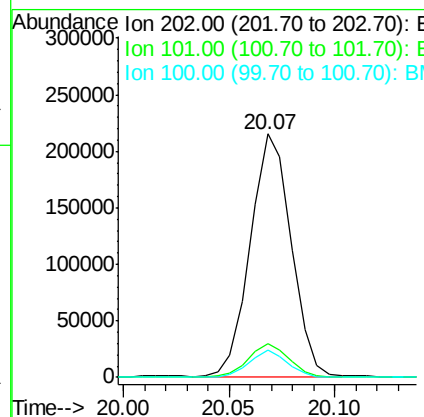
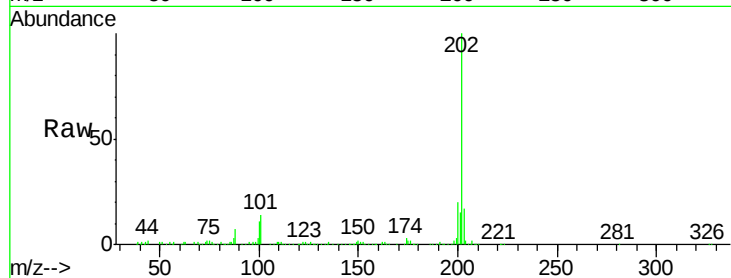
#16  
**Fluoranthene**  
 Concen: 7.32 ng/ul  
 RT: 20.07 min Scan# 2887  
 Delta R.T. -0.01 min  
 Lab File: BM002612.D  
 Acq: 01 Sep 2015 05:08

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9EA4MSD

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 288472 |       |       |
| 101     | 14.0  | 9.7    | 14.5  |       |
| 100     | 11.0  | 7.4    | 11.2  |       |

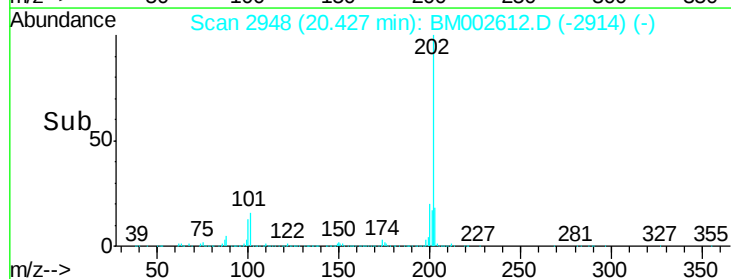
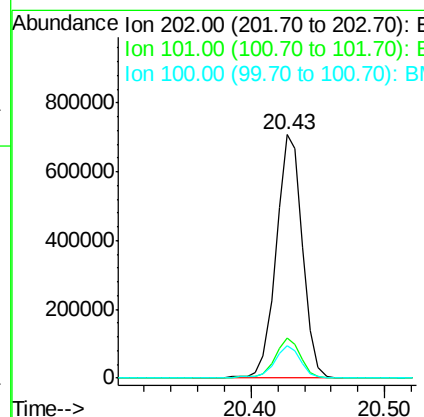
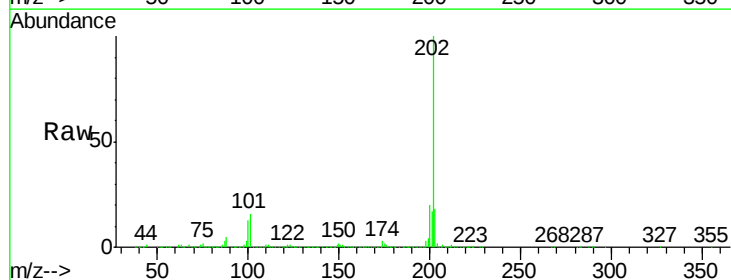
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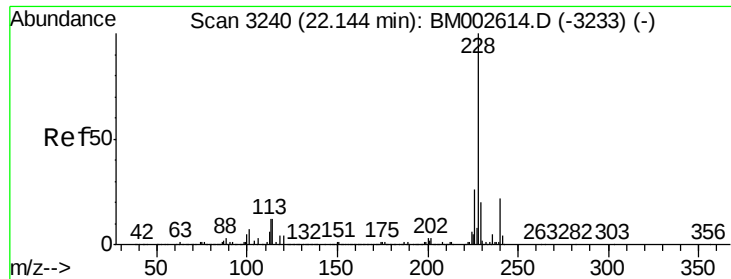
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#19  
**Pyrene**  
 Concen: 36.68 ng/ul  
 RT: 20.43 min Scan# 2948  
 Delta R.T. 0.00 min  
 Lab File: BM002612.D  
 Acq: 01 Sep 2015 05:08

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 969628 |       |       |
| 101     | 16.4  | 12.0   | 18.0  |       |
| 100     | 13.3  | 9.7    | 14.5  |       |





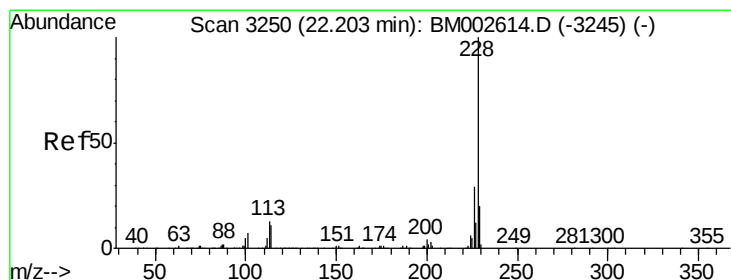
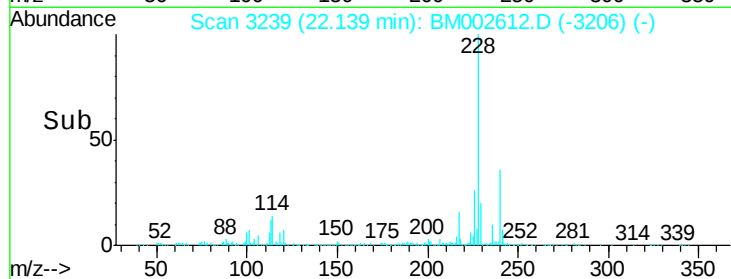
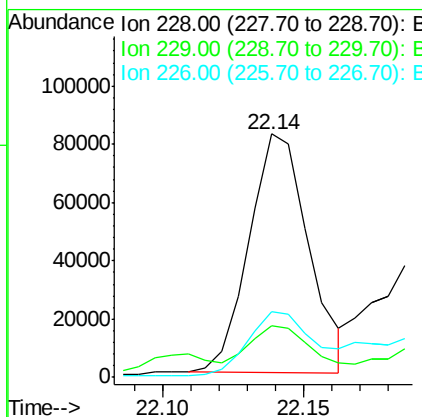
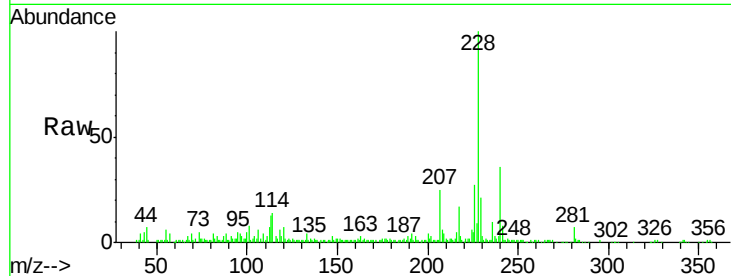
#20  
Benzo(a)anthracene  
Concen: 4.45 ng/ul  
RT: 22.14 min Scan# 3239  
Delta R.T. -0.01 min  
Lab File: BM002612.D  
Acq: 01 Sep 2015 05:08

Instrument :  
BNA\_M  
ClientSampleId :  
D9EA4MSD

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 119942 |       |       |
| 229     | 21.2  | 15.8   | 23.6  |       |
| 226     | 27.0  | 21.1   | 31.7  |       |

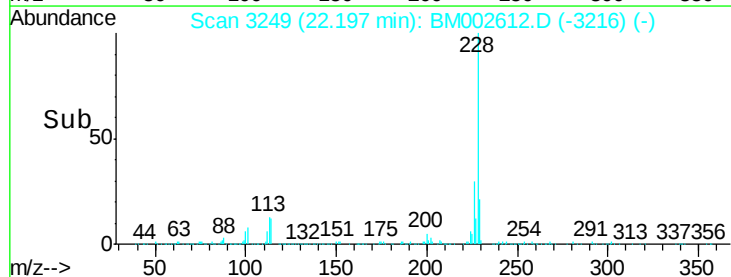
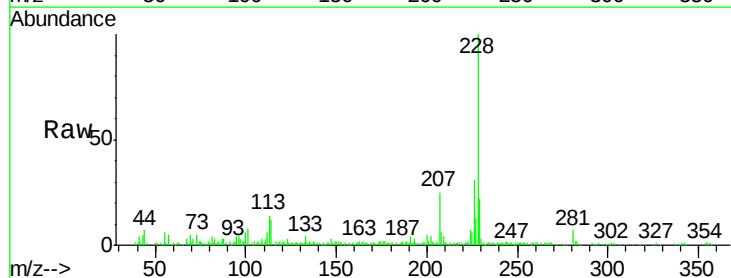
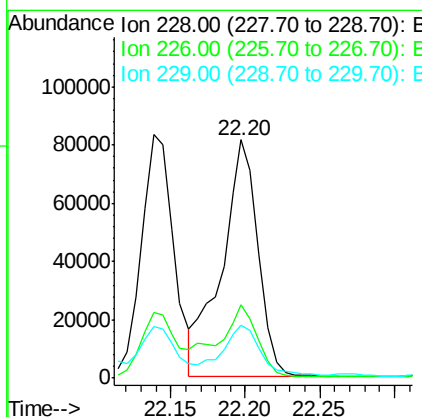
Manual Integrations  
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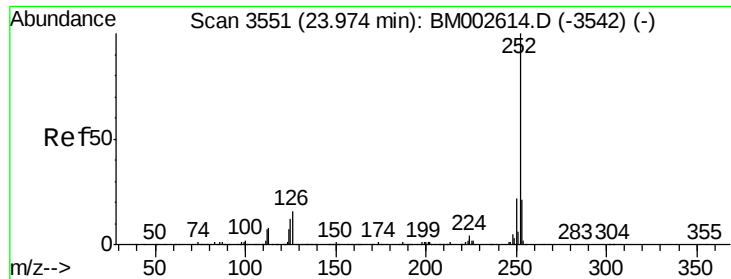
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#21  
Chrysene  
Concen: 5.47 ng/ul  
RT: 22.20 min Scan# 3249  
Delta R.T. -0.01 min  
Lab File: BM002612.D  
Acq: 01 Sep 2015 05:08

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 138106 |       |       |
| 226     | 30.6  | 23.4   | 35.2  |       |
| 229     | 22.2  | 15.7   | 23.5  |       |





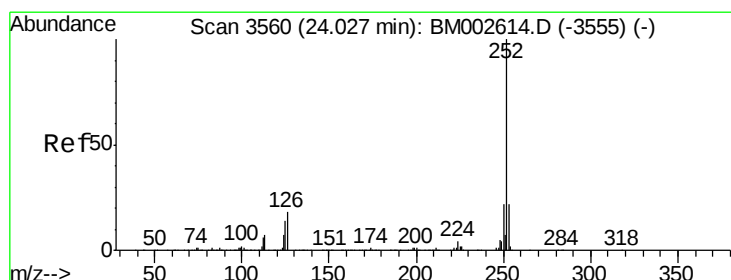
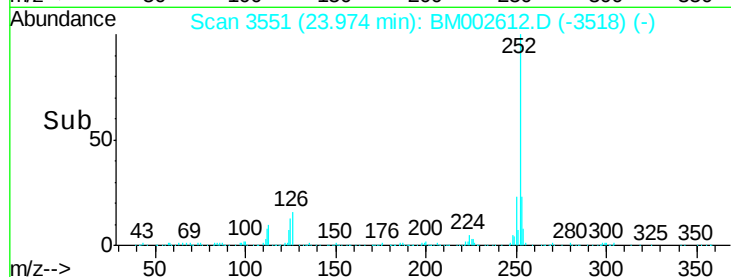
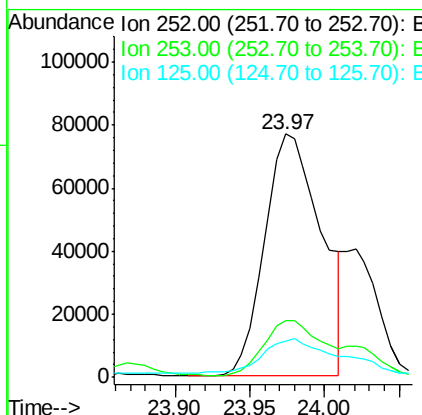
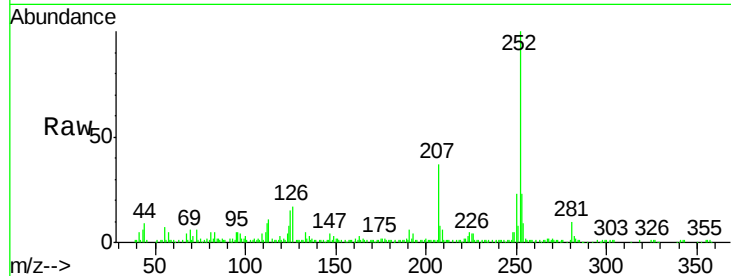
#23  
Benzo(b)fluoranthene  
Concen: 7.87 ng/ul  
RT: 23.97 min Scan# 3551  
Delta R.T. -0.01 min  
Lab File: BM002612.D  
Acq: 01 Sep 2015 05:08

Instrument :  
BNA\_M  
ClientSampleId :  
D9EA4MSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.4  | 26.0  |
| 125     | 14.8  | 10.0  | 15.0  |

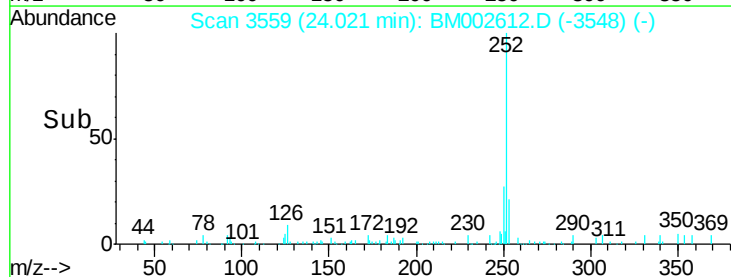
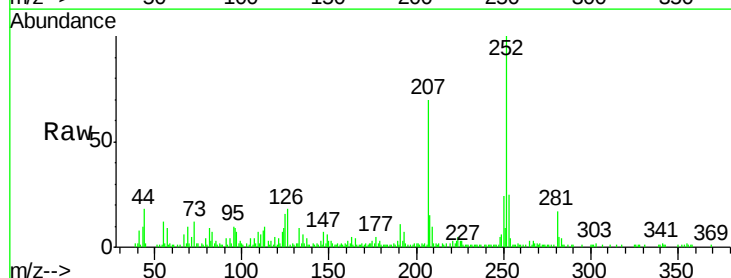
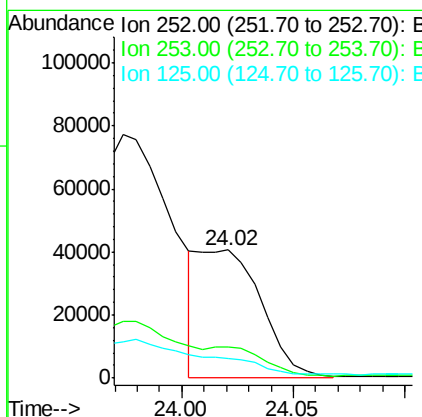
Manual Integrations  
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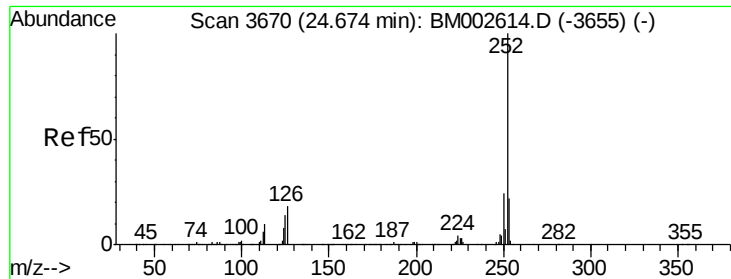
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#24  
Benzo(k)fluoranthene  
Concen: 3.23 ng/ul m  
RT: 24.02 min Scan# 3559  
Delta R.T. -0.01 min  
Lab File: BM002612.D  
Acq: 01 Sep 2015 05:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.7  | 17.8  | 26.6  |
| 125     | 15.7  | 9.8   | 14.8# |





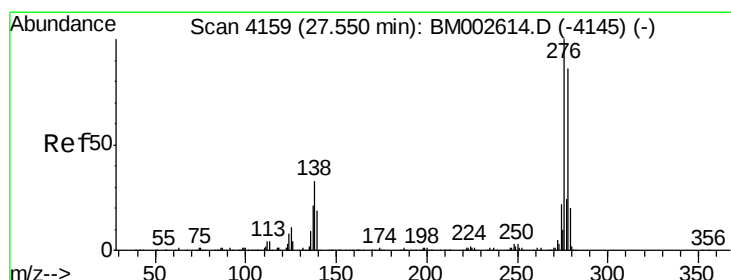
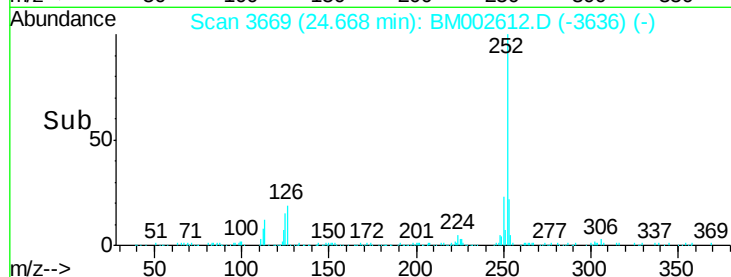
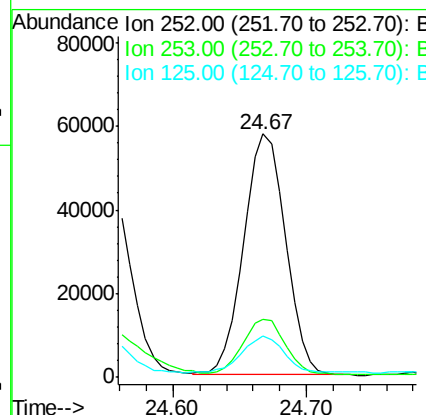
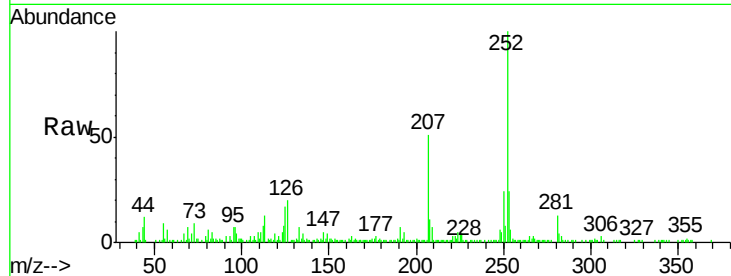
#26  
Benzo(a)pyrene  
Concen: 5.08 ng/ul  
RT: 24.67 min Scan# 3669  
Delta R.T. -0.01 min  
Lab File: BM002612.D  
Acq: 01 Sep 2015 05:08

Instrument :  
BNA\_M  
ClientSampleId :  
D9EA4MSD

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 23.7  | 17.6       | 26.4       |
| 125     | 17.2  | 10.7       | 16.1       |

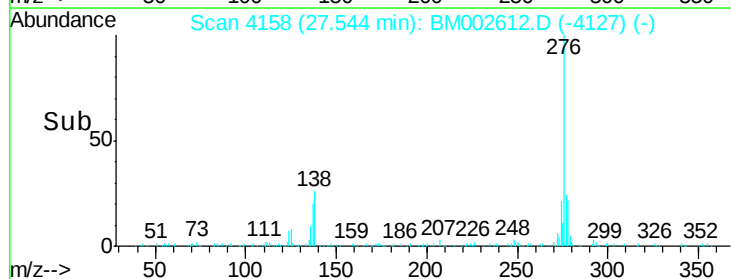
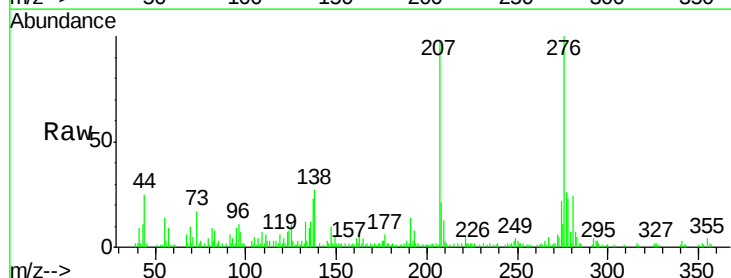
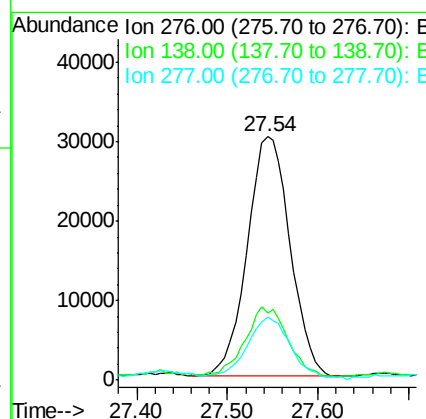
Manual Integrations  
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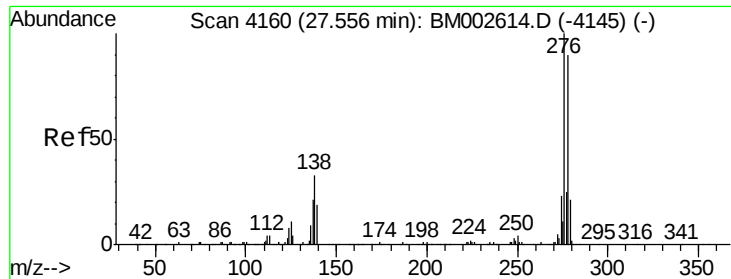
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#27  
Indeno(1,2,3-cd)pyrene  
Concen: 3.48 ng/ul  
RT: 27.54 min Scan# 4158  
Delta R.T. -0.02 min  
Lab File: BM002612.D  
Acq: 01 Sep 2015 05:08

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 27.3  | 25.3       | 37.9       |
| 277     | 25.9  | 20.2       | 30.2       |





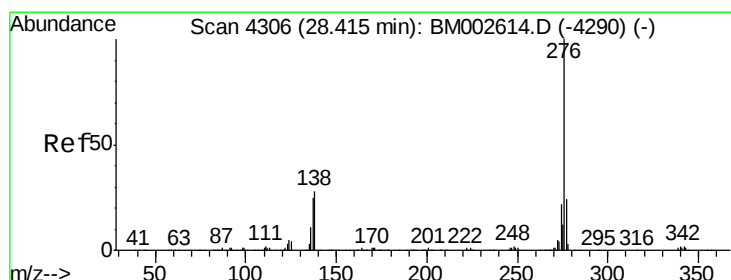
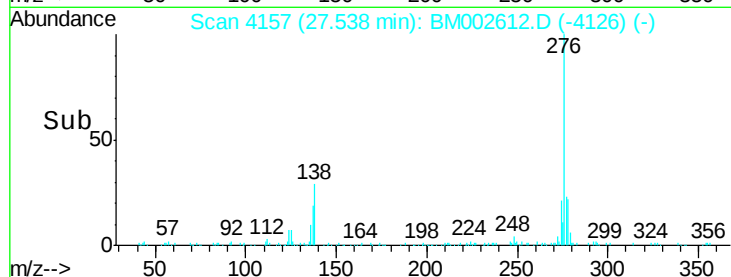
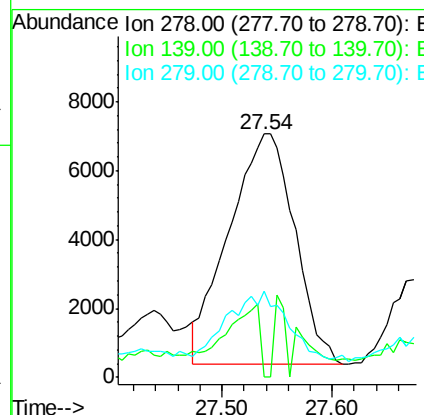
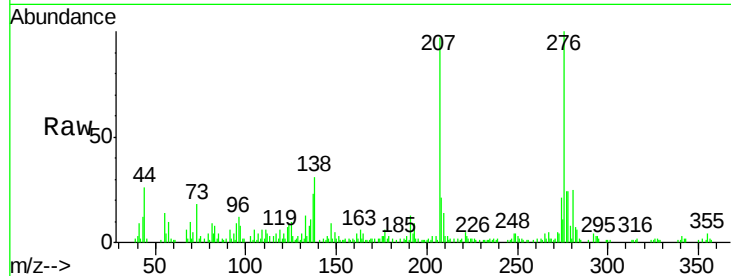
#28  
Dibenzo(a,h)anthracene  
Concen: 1.18 ng/ul  
RT: 27.54 min Scan# 4157  
Delta R.T. -0.02 min  
Lab File: BM002612.D  
Acq: 01 Sep 2015 05:08

Instrument :  
BNA\_M  
ClientSampleId :  
D9EA4MSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 16.5  | 24.7# |
| 279     | 35.3  | 18.8  | 28.2# |

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#29  
Benzo(g,h,i)perylene  
Concen: 3.66 ng/ul  
RT: 28.41 min Scan# 4306  
Delta R.T. -0.01 min  
Lab File: BM002612.D  
Acq: 01 Sep 2015 05:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 31.1  | 21.0  | 31.6  |
| 277     | 24.8  | 19.2  | 28.8  |

