

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM083115\  
 Data File : BM002620.D  
 Acq On : 01 Sep 2015 09:59  
 Operator : UM/IZ  
 Sample : G3457-08  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9EB2

Manual Integrations  
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 9/1/2015 2:56:57 PM

Quant Time: Sep 01 11:15:19 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM081415MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Sep 01 07:11:38 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|--------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.77  | 152  | 121885   | 20.00 | ng/ul  | 0.00      |
| 2) Naphthalene-d8           | 11.65 | 136  | 574397   | 20.00 | ng/ul  | 0.00      |
| 6) Acenaphthene-d10         | 15.37 | 164  | 292373   | 20.00 | ng/ul  | 0.00      |
| 12) Phenanthrene-d10        | 18.07 | 188  | 506938   | 20.00 | ng/ul  | 0.00      |
| 17) Chrysene-d12            | 22.16 | 240  | 402019   | 20.00 | ng/ul  | 0.00      |
| 22) Perylene-d12            | 24.78 | 264  | 430206   | 20.00 | ng/ul  | 0.00      |
| System Monitoring Compounds |       |      |          |       |        |           |
| 7) Acenaphthylene-d8        | 15.07 | 160  | 381400   | 12.76 | ng/ul  | 0.00      |
| 10) Fluorene-d10            | 16.34 | 176  | 239698   | 11.42 | ng/ul  | 0.00      |
| 14) Anthracene-d10          | 18.17 | 188  | 286910   | 11.73 | ng/ul  | 0.00      |
| 18) Pyrene-d10              | 20.40 | 212  | 218457   | 12.26 | ng/ul  | 0.00      |
| 25) Benzo(a)pyrene-d12      | 24.61 | 264  | 148139   | 6.56  | ng/ul  | 0.00      |
| Target Compounds            |       |      |          |       |        |           |
| 8) Acenaphthylene           | 15.10 | 152  | 35673    | 1.14  | ng/ul  | Qvalue 98 |
| 13) Phenanthrene            | 18.12 | 178  | 65272    | 2.23  | ng/ul  | 99        |
| 15) Anthracene              | 18.21 | 178  | 44279    | 1.49  | ng/ul  | 100       |
| 16) Fluoranthene            | 20.07 | 202  | 142052   | 4.29  | ng/ul  | 97        |
| 19) Pyrene                  | 20.43 | 202  | 148426   | 6.30  | ng/ul  | 99        |
| 20) Benzo(a)anthracene      | 22.14 | 228  | 137075   | 5.70  | ng/ul  | 98        |
| 21) Chrysene                | 22.20 | 228  | 126718   | 5.64  | ng/ul  | 97        |
| 23) Benzo(b)fluoranthene    | 23.97 | 252  | 265735   | 10.22 | ng/ul  | 96        |
| 24) Benzo(k)fluoranthene    | 24.02 | 252  | 82364m   | 3.34  | ng/ul  |           |
| 26) Benzo(a)pyrene          | 24.67 | 252  | 158547   | 6.38  | ng/ul  | 97        |
| 27) Indeno(1,2,3-cd)pyrene  | 27.54 | 276  | 116617   | 4.08  | ng/ul  | 97        |
| 28) Dibenzo(a,h)anthracene  | 27.54 | 278  | 39612    | 1.66  | ng/ul# | 79        |
| 29) Benzo(g,h,i)perylene    | 28.41 | 276  | 106967   | 4.50  | ng/ul# | 93        |

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

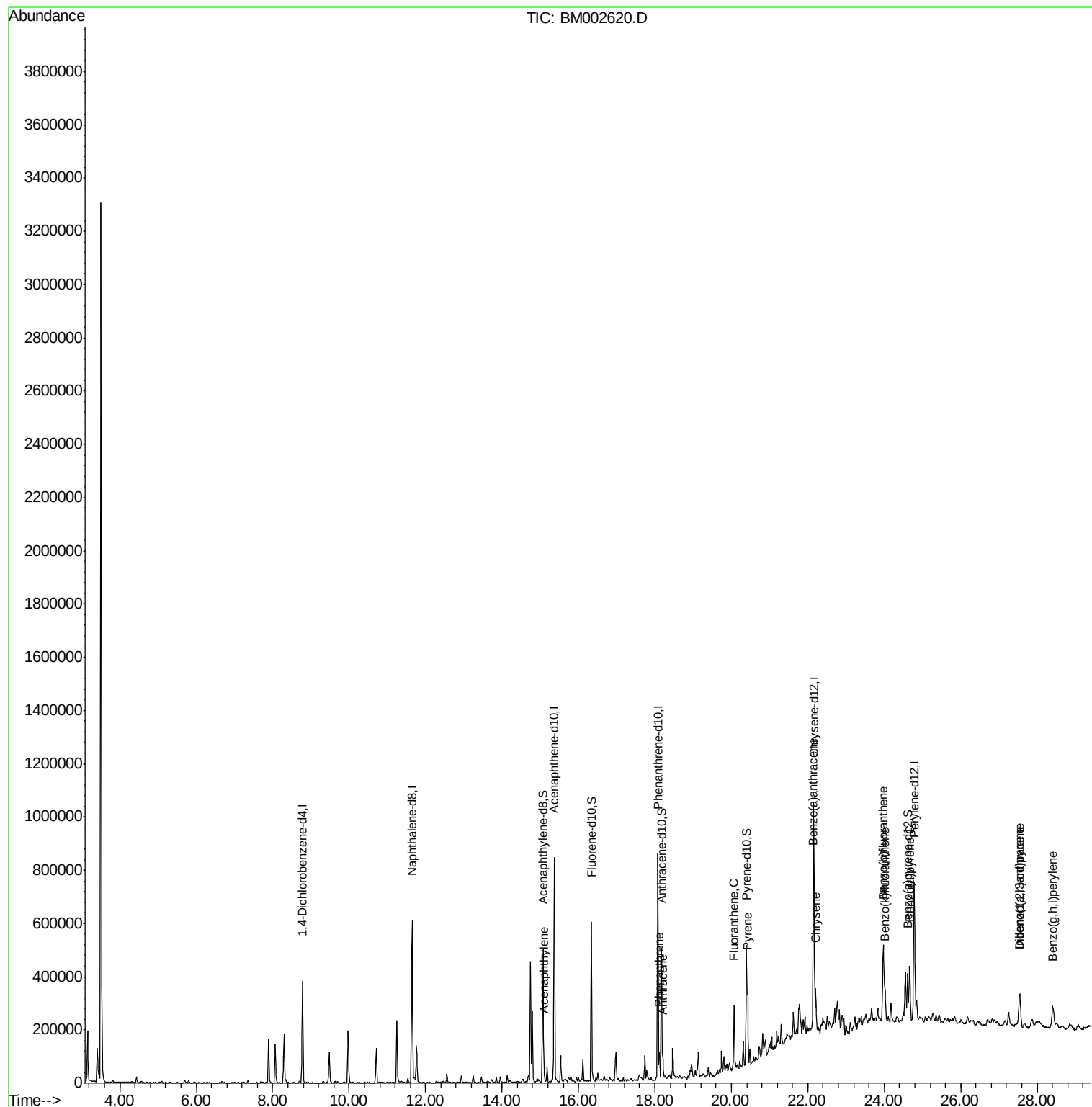
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM083115\  
Data File : BM002620.D  
Acq On : 01 Sep 2015 09:59  
Operator : UM/IZ  
Sample : G3457-08  
Misc :  
ALS Vial : 33 Sample Multiplier: 1

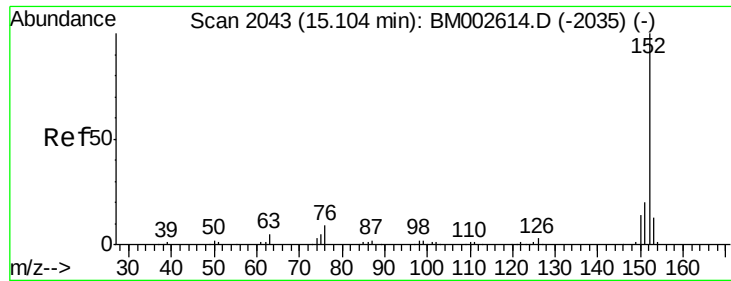
Instrument :  
BNA\_M  
ClientSampleId :  
D9EB2

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Quant Time: Sep 01 11:15:19 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM081415MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Sep 01 07:11:38 2015  
Response via : Initial Calibration





#8

Acenaphthylene

Concen: 1.14 ng/ul

RT: 15.10 min Scan# 2042

Delta R.T. -0.01 min

Lab File: BM002620.D

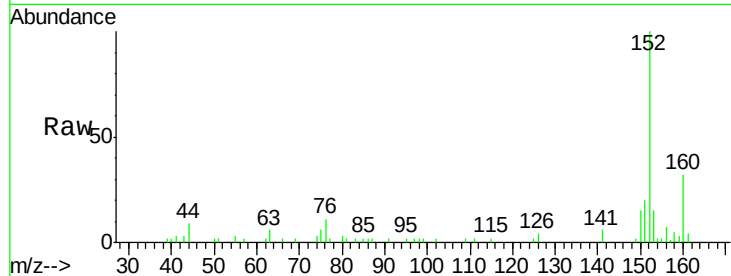
Acq: 01 Sep 2015 09:59

Instrument :

BNA\_M

ClientSampleId :

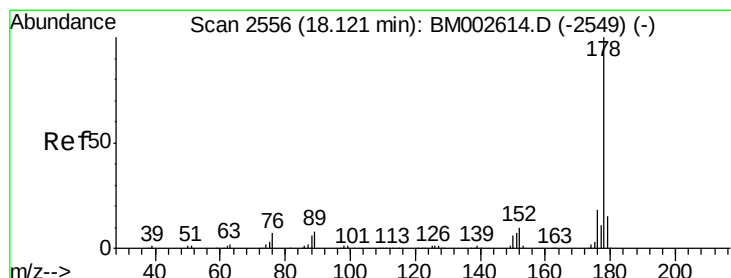
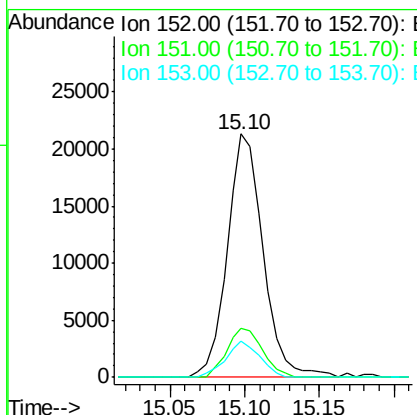
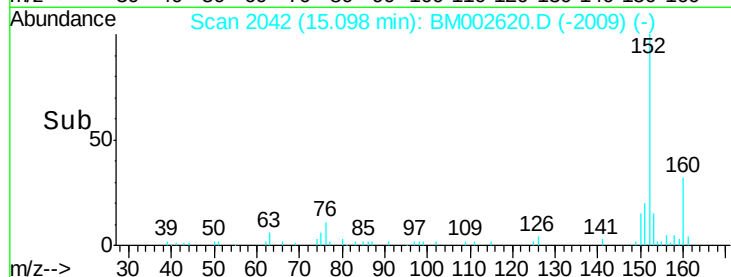
D9EB2



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 35673 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.9  | 15.7  | 23.5  |
| 153       | 14.8  | 10.2  | 15.4  |

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#13

Phenanthrene

Concen: 2.23 ng/ul

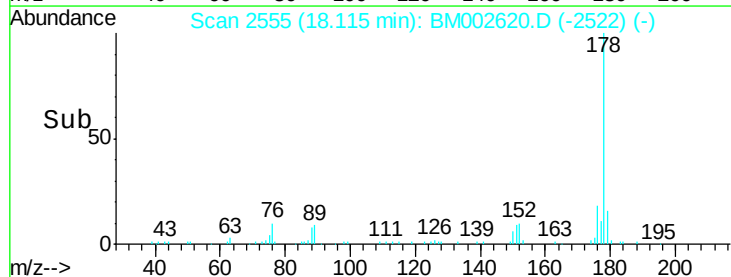
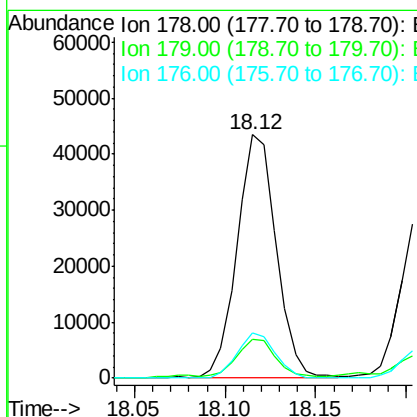
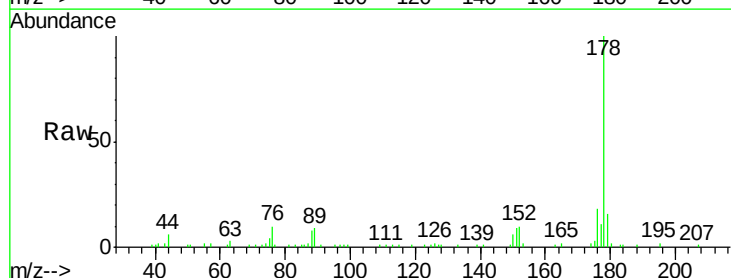
RT: 18.12 min Scan# 2555

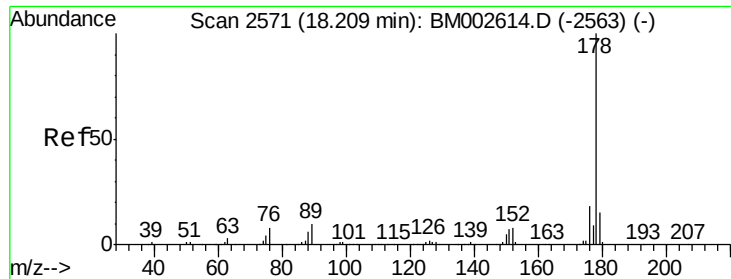
Delta R.T. -0.01 min

Lab File: BM002620.D

Acq: 01 Sep 2015 09:59

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 65272 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 16.0  | 12.4  | 18.6  |
| 176       | 18.4  | 15.1  | 22.7  |





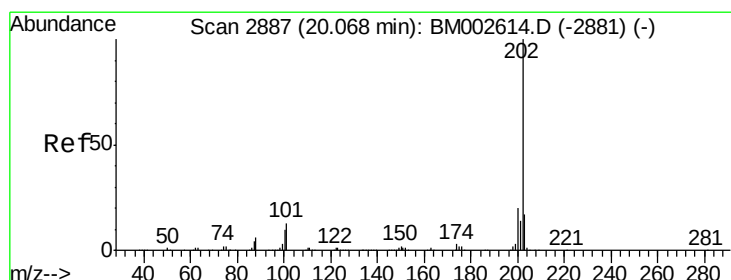
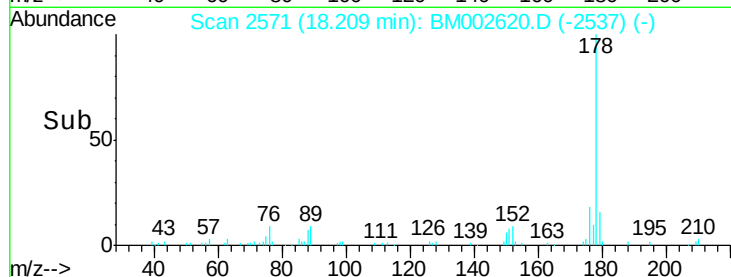
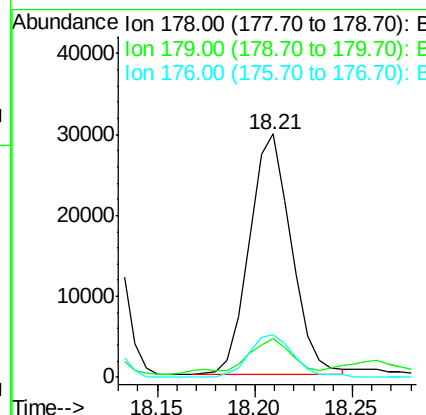
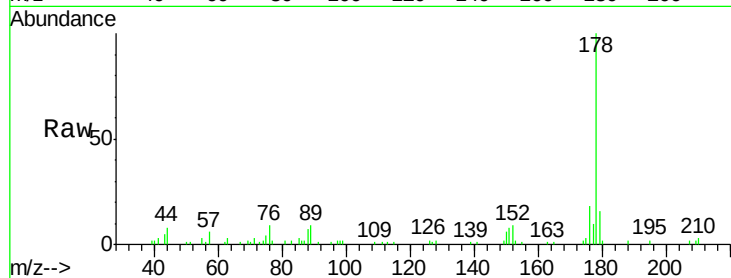
#15  
 Anthracene  
 Concen: 1.49 ng/ul  
 RT: 18.21 min Scan# 2571  
 Delta R.T. -0.00 min  
 Lab File: BM002620.D  
 Acq: 01 Sep 2015 09:59

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9EB2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.7  | 12.6  | 18.8  |
| 176     | 17.7  | 14.5  | 21.7  |

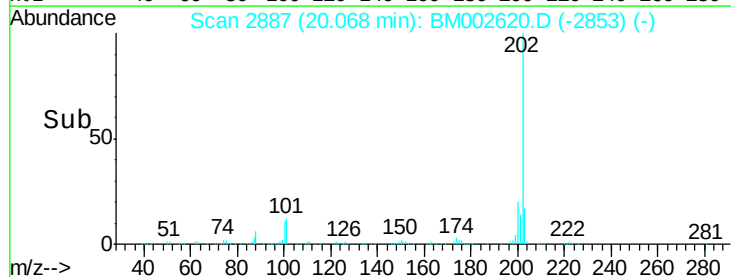
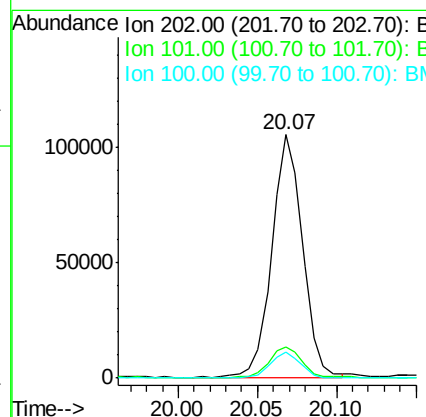
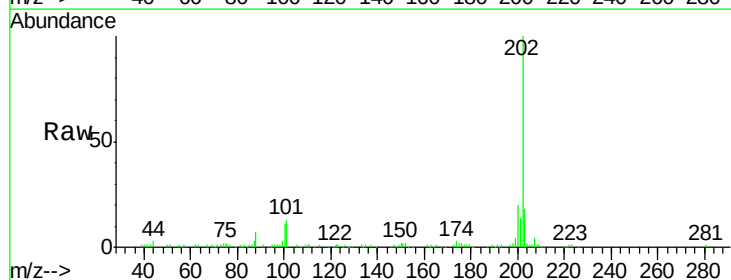
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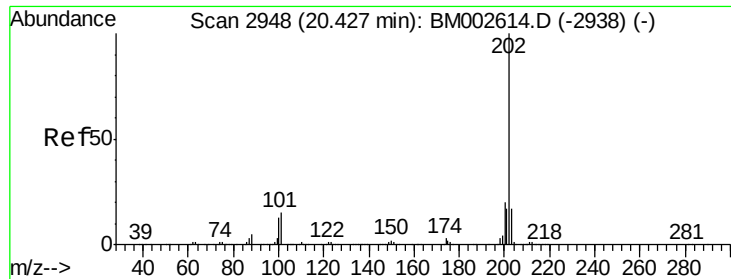
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#16  
 Fluoranthene  
 Concen: 4.29 ng/ul  
 RT: 20.07 min Scan# 2887  
 Delta R.T. -0.00 min  
 Lab File: BM002620.D  
 Acq: 01 Sep 2015 09:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.9  | 9.7   | 14.5  |
| 100     | 10.5  | 7.4   | 11.2  |





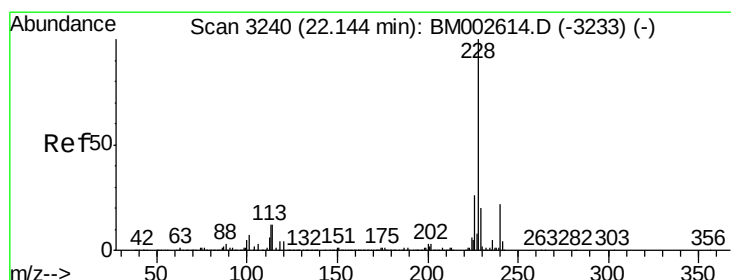
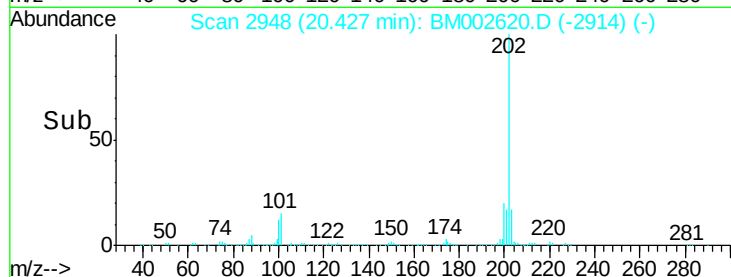
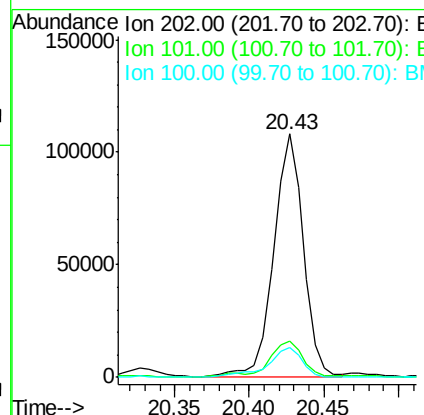
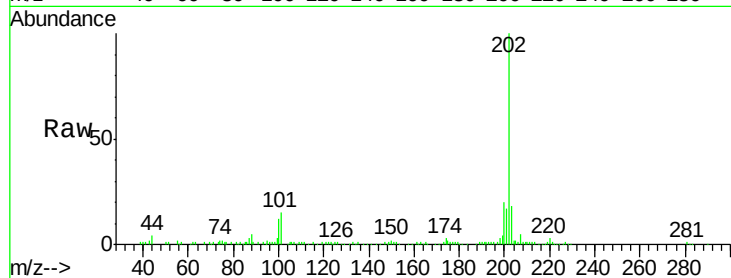
#19  
 Pyrene  
 Concen: 6.30 ng/ul  
 RT: 20.43 min Scan# 2948  
 Delta R.T. -0.00 min  
 Lab File: BM002620.D  
 Acq: 01 Sep 2015 09:59

Instrument :  
 BNA\_M  
 ClientSampled :  
 D9EB2

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 148426 |       |       |
| 101     | 14.7  | 12.0   | 18.0  |       |
| 100     | 12.3  | 9.7    | 14.5  |       |

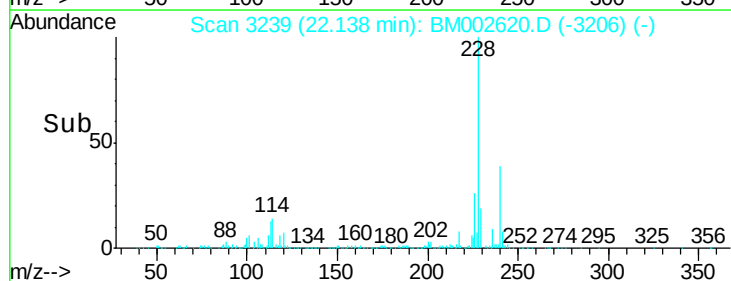
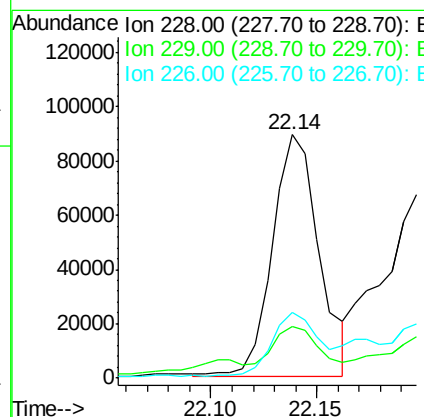
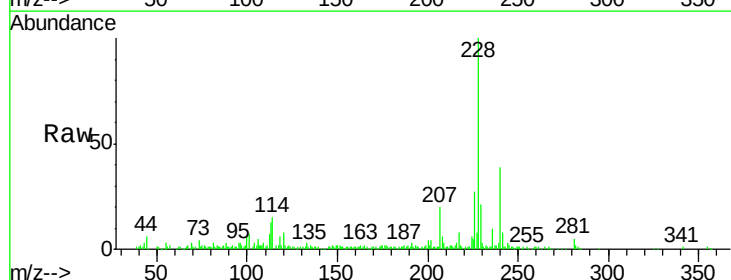
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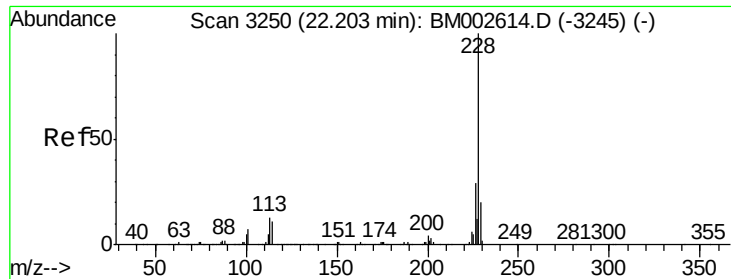
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#20  
 Benzo(a)anthracene  
 Concen: 5.70 ng/ul  
 RT: 22.14 min Scan# 3239  
 Delta R.T. -0.01 min  
 Lab File: BM002620.D  
 Acq: 01 Sep 2015 09:59

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 137075 |       |       |
| 229     | 21.0  | 15.8   | 23.6  |       |
| 226     | 27.0  | 21.1   | 31.7  |       |





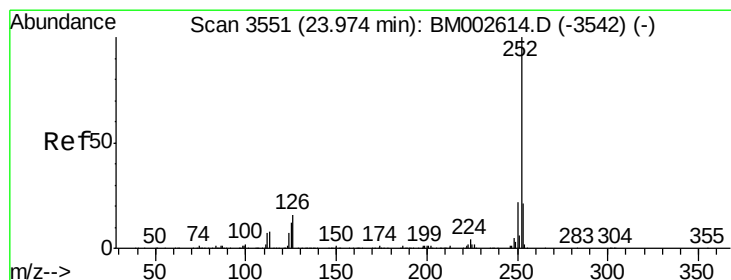
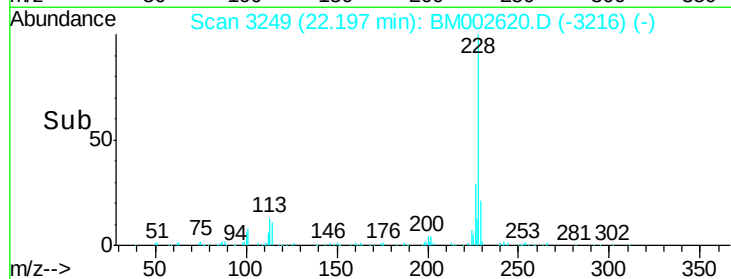
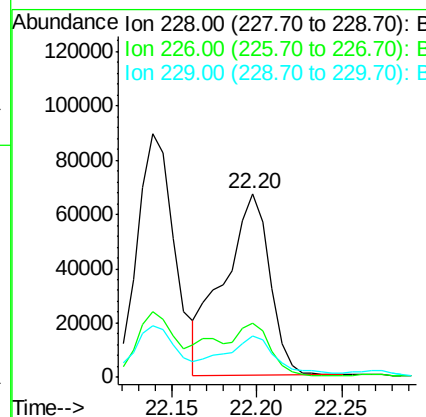
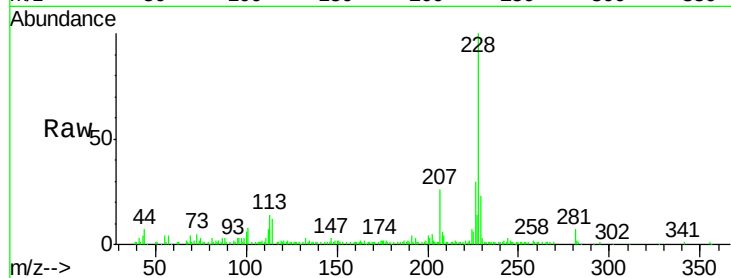
#21  
Chrysene  
Concen: 5.64 ng/ul  
RT: 22.20 min Scan# 3249  
Delta R.T. -0.01 min  
Lab File: BM002620.D  
Acq: 01 Sep 2015 09:59

Instrument :  
BNA\_M  
ClientSampleId :  
D9EB2

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 126718 |       |       |
| 226     | 29.5  | 23.4   | 35.2  |       |
| 229     | 22.6  | 15.7   | 23.5  |       |

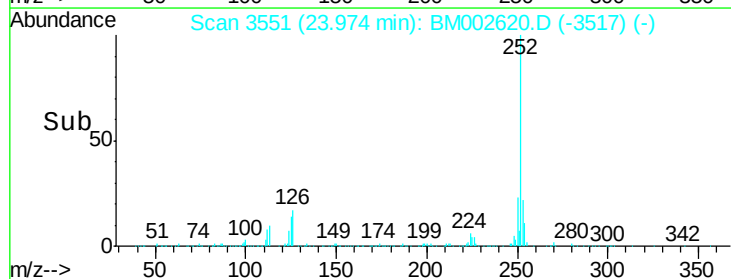
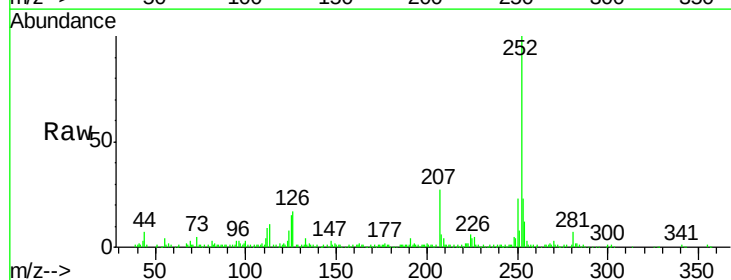
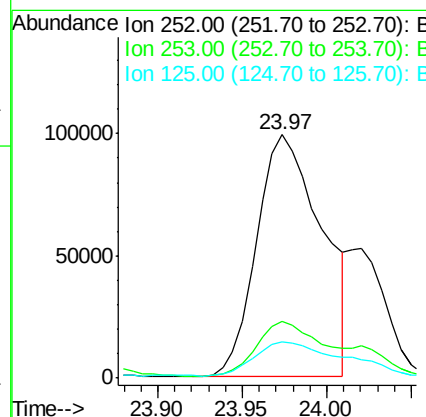
Manual Integrations  
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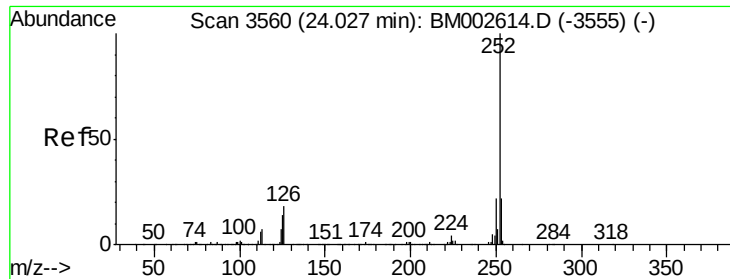
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#23  
Benzo(b)fluoranthene  
Concen: 10.22 ng/ul  
RT: 23.97 min Scan# 3551  
Delta R.T. -0.00 min  
Lab File: BM002620.D  
Acq: 01 Sep 2015 09:59

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 265735 |       |       |
| 253     | 23.1  | 17.4   | 26.0  |       |
| 125     | 14.7  | 10.0   | 15.0  |       |





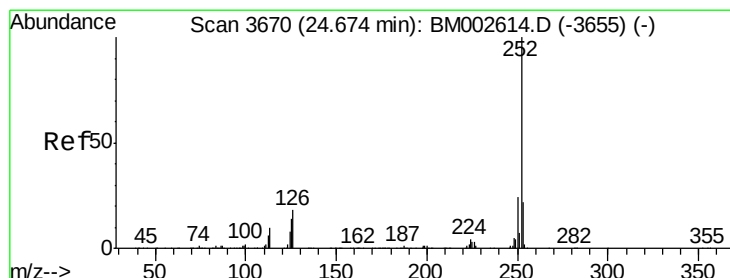
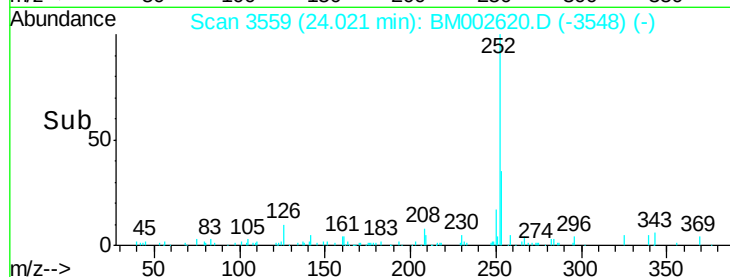
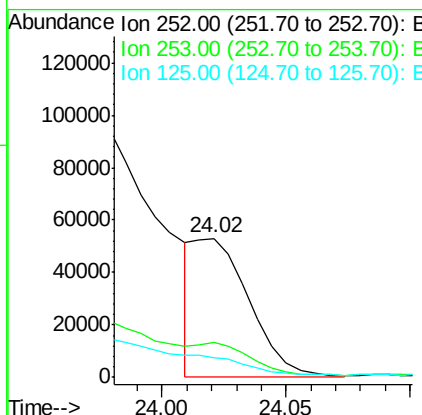
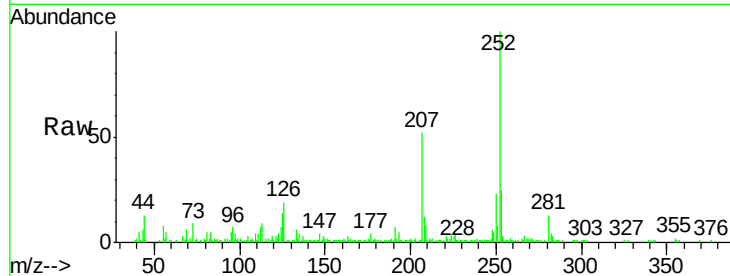
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Benzo(k)fluoranthene  
Concen: 3.34 ng/ul m  
RT: 24.02 min Scan# 3559  
Delta R.T. -0.01 min  
Lab File: BM002620.D  
Acq: 01 Sep 2015 09:59

Instrument :  
BNA\_M  
ClientSampleId :  
D9EB2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.2  | 17.8  | 26.6  |
| 125     | 14.0  | 9.8   | 14.8  |

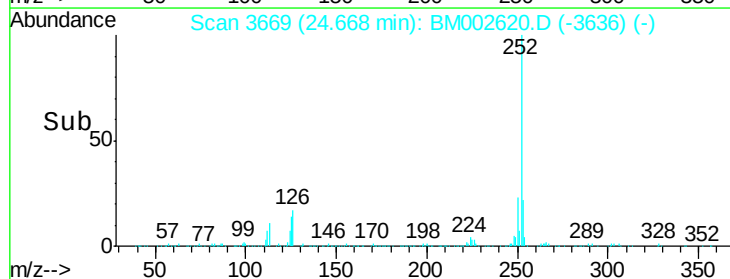
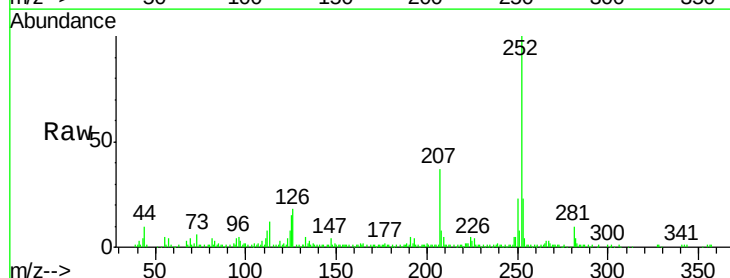
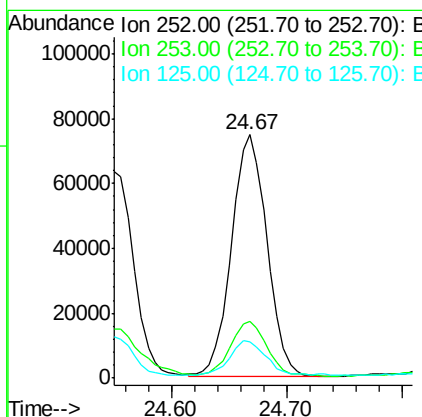
Manual Integrations  
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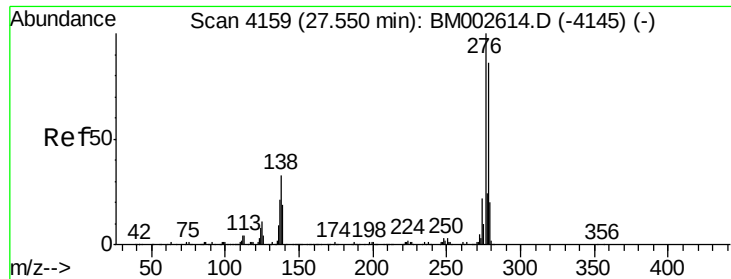
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#26  
Benzo(a)pyrene  
Concen: 6.38 ng/ul  
RT: 24.67 min Scan# 3669  
Delta R.T. -0.01 min  
Lab File: BM002620.D  
Acq: 01 Sep 2015 09:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 17.6  | 26.4  |
| 125     | 15.1  | 10.7  | 16.1  |





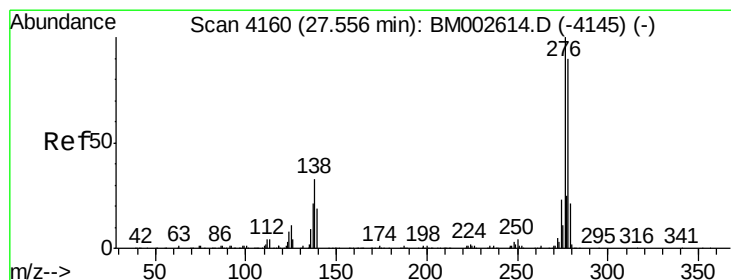
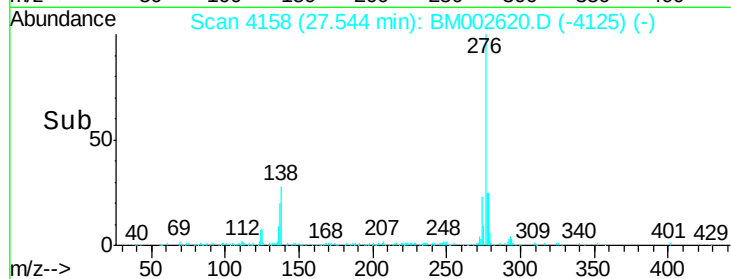
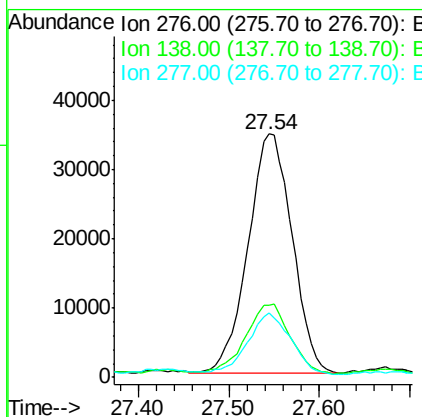
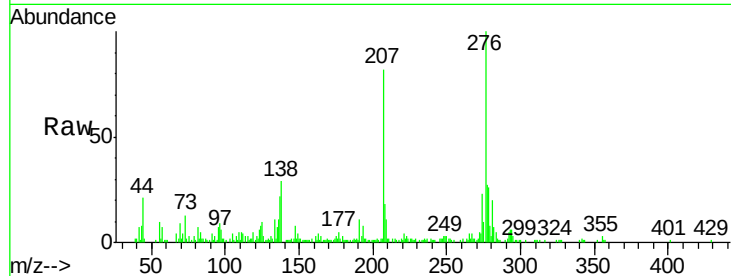
#27  
 Indeno(1,2,3-cd)pyrene  
 Concen: 4.08 ng/ul  
 RT: 27.54 min Scan# 4158  
 Delta R.T. -0.01 min  
 Lab File: BM002620.D  
 Acq: 01 Sep 2015 09:59

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9EB2

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 276     | 100   | 116617 |       |       |
| 138     | 29.4  | 25.3   | 37.9  |       |
| 277     | 26.5  | 20.2   | 30.2  |       |

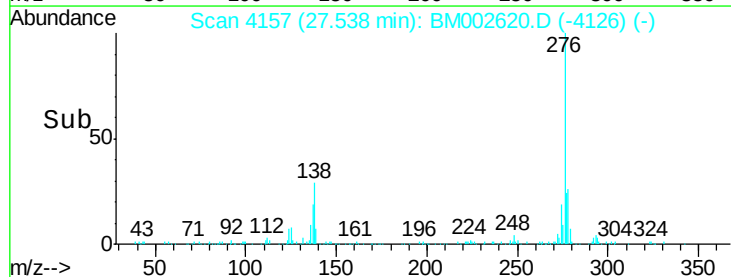
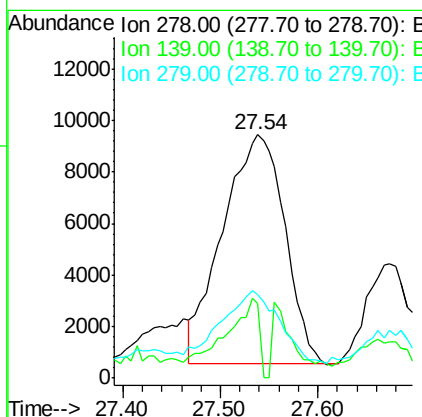
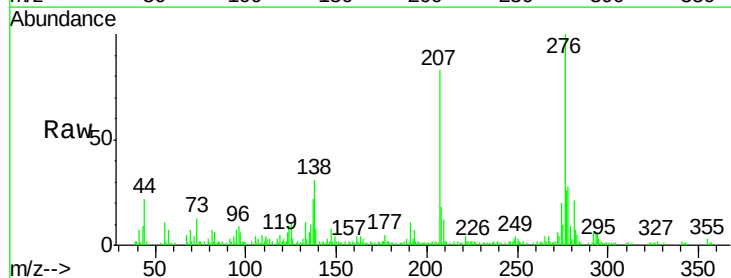
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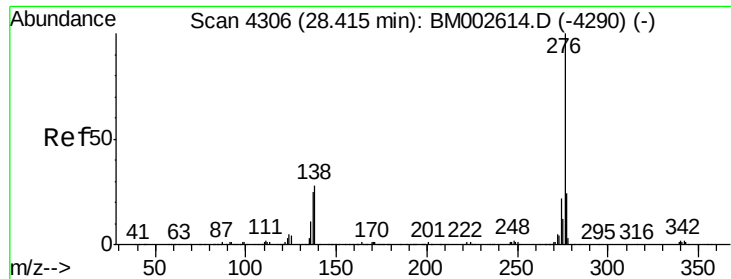


#28  
 Dibenzo(a,h)anthracene  
 Concen: 1.66 ng/ul  
 RT: 27.54 min Scan# 4157  
 Delta R.T. -0.02 min  
 Lab File: BM002620.D  
 Acq: 01 Sep 2015 09:59

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 278     | 100   | 39612 |       |       |
| 139     | 30.5  | 16.5  | 24.7# |       |
| 279     | 34.1  | 18.8  | 28.2# |       |







#29  
Benzo(g,h,i)perylene  
Concen: 4.50 ng/ul  
RT: 28.41 min Scan# 4305  
Delta R.T. -0.01 min  
Lab File: BM002620.D  
Acq: 01 Sep 2015 09:59

Instrument :  
BNA\_M  
ClientSampleId :  
D9EB2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 31.9  | 21.0  | 31.6# |
| 277     | 25.6  | 19.2  | 28.8  |

Manual Integrations  
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