

Data Path : Z:\HPCHEM1\BNA M\DATA\BM122916\  
 Data File : BM008715.D  
 Acq On : 29 Dec 2016 11:49  
 Operator : UM/SJ  
 Sample : H6067-13DL 10X  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DA7G4DL

Manual Integrations  
 APPROVED

Sohil  
 12/30/2016 8:42:36 AM

Quant Time: Dec 30 02:22:38 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM121916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 30 00:54:22 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.76  | 152  | 290      | 0.40   | ng/ul | -0.09    |
| 2) Naphthalene-d8           | 10.54 | 136  | 986m     | 0.40   | ng/ul | -0.01    |
| 6) Acenaphthene-d10         | 14.31 | 164  | 615m     | 0.40   | ng/ul | -0.02    |
| 10) Phenanthrene-d10        | 17.07 | 188  | 1194m    | 0.40   | ng/ul | -0.03    |
| 16) Chrysene-d12            | 21.26 | 240  | 1219m    | 0.40   | ng/ul | -0.02    |
| 20) Perylene-d12            | 23.50 | 264  | 1225m    | 0.40   | ng/ul | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 4) 2-Methylnaphthalene-d10  | 12.16 | 152  | 37m      | 0.02   | ng/ul | 0.01     |
| 14) Fluoranthene-d10        | 19.11 | 212  | 114m     | 0.03   | ng/ul | -0.01    |
| Target Compounds            |       |      |          | Ovalue |       |          |
| 3) Naphthalene              | 10.58 | 128  | 650m     | 0.23   | ng/ul |          |
| 5) 2-Methylnaphthalene      | 12.23 | 142  | 521m     | 0.28   | ng/ul |          |
| 7) Acenaphthylene           | 14.06 | 152  | 164m     | 0.06   | ng/ul |          |
| 12) Phenanthrene            | 17.11 | 178  | 2240m    | 0.61   | ng/ul |          |
| 13) Anthracene              | 17.21 | 178  | 387m     | 0.11   | ng/ul |          |
| 15) Fluoranthene            | 19.13 | 202  | 3461m    | 0.77   | ng/ul |          |
| 17) Pyrene                  | 19.50 | 202  | 3932m    | 0.83   | ng/ul |          |
| 18) Benzo(a)anthracene      | 21.25 | 228  | 2104m    | 0.53   | ng/ul |          |
| 19) Chrysene                | 21.30 | 228  | 2404m    | 0.55   | ng/ul |          |
| 21) Benzo(b)fluoranthene    | 22.83 | 252  | 3628m    | 0.75   | ng/ul |          |
| 22) Benzo(k)fluoranthene    | 22.87 | 252  | 1207m    | 0.26   | ng/ul |          |
| 23) Benzo(a)pyrene          | 23.40 | 252  | 2268m    | 0.51   | ng/ul |          |
| 24) Indeno(1,2,3-cd)pyrene  | 25.77 | 276  | 1615m    | 0.30   | ng/ul |          |
| 25) Dibenzo(a,h)anthracene  | 25.74 | 278  | 403m     | 0.09   | ng/ul |          |
| 26) Benzo(g,h,i)perylene    | 26.45 | 276  | 2314m    | 0.51   | ng/ul |          |

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

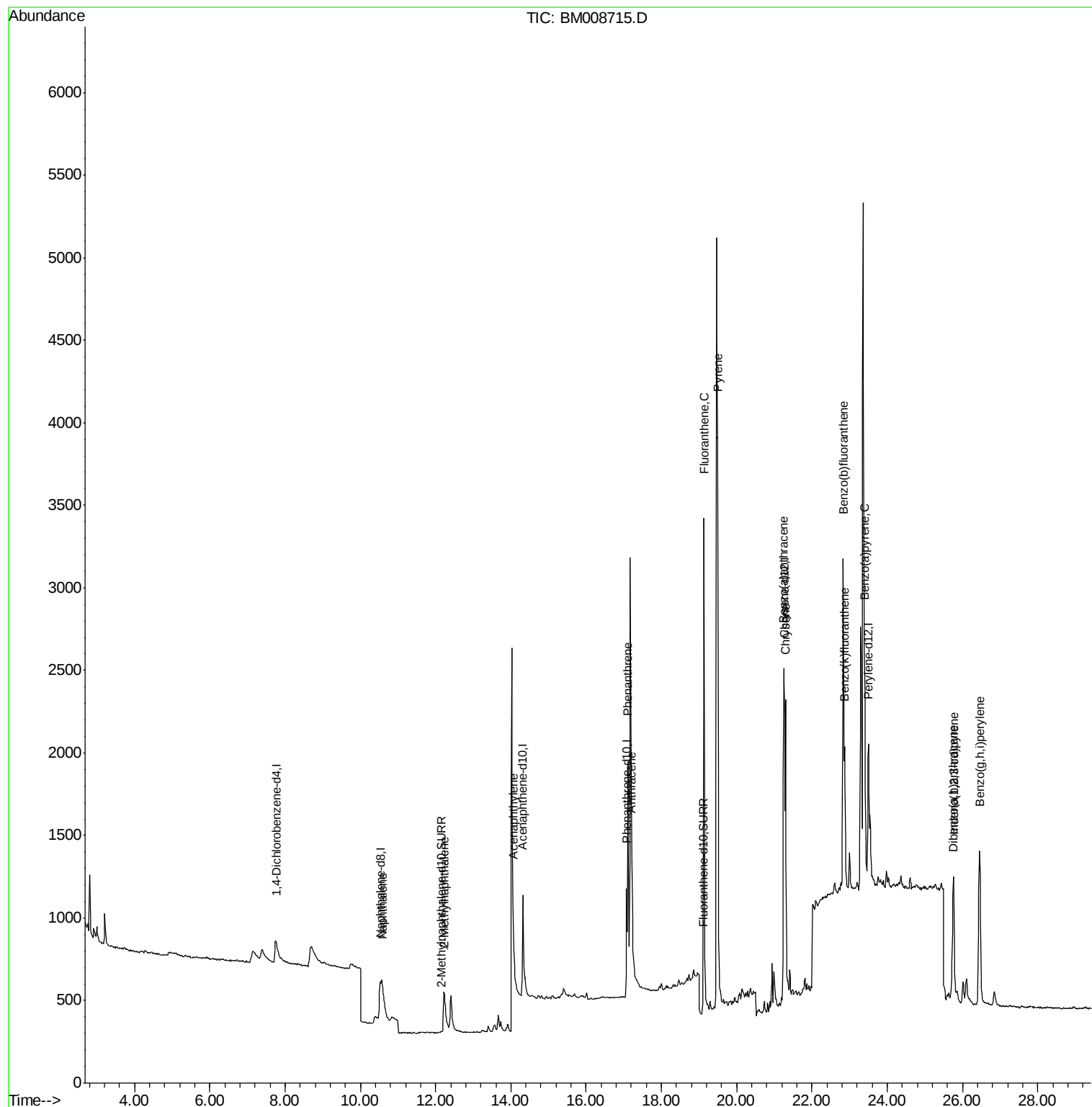
Data Path : Z:\HPCHEM1\BNA M\DATA\BM122916\  
Data File : BM008715.D  
Acq On : 29 Dec 2016 11:49  
Operator : UM/SJ  
Sample : H6067-13DL 10X  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

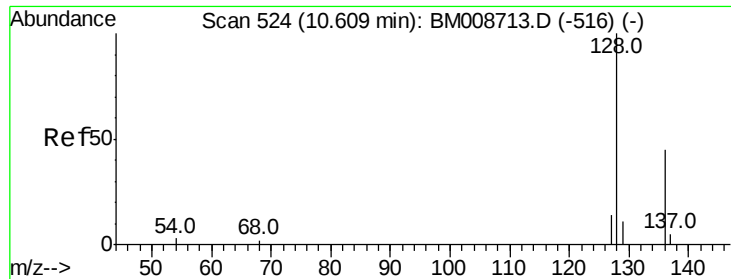
Instrument :  
BNA\_M  
ClientSampleId :  
DA7G4DL

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12/30/2016 8:42:36 AM

Quant Time: Dec 30 02:22:38 2016  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM121916.M  
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QLast Update : Fri Dec 30 00:54:22 2016  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.23 ng/ul m

RT: 10.58 min Scan# 522

Delta R.T. -0.02 min

Lab File: BM008715.D

Acq: 29 Dec 2016 11:49

Instrument :

BNA\_M

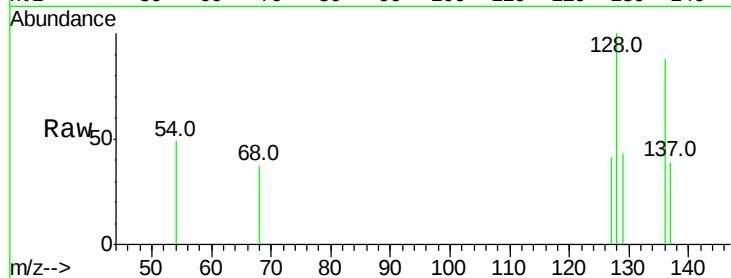
ClientSampleID :

DA7G4DL

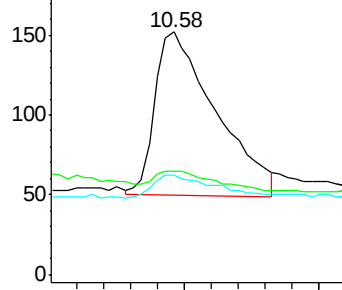
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 650   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 42.8  | 11.3  | 16.9# |
| 127      | 40.8  | 12.8  | 19.2# |

Manual Integrations  
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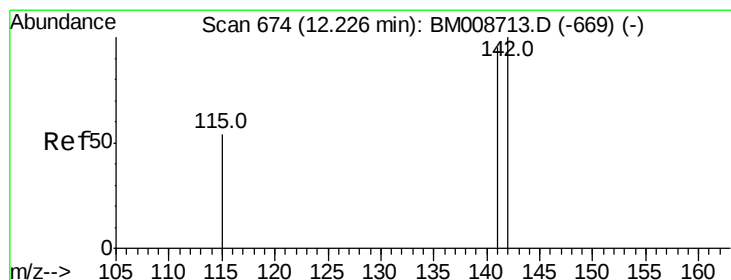
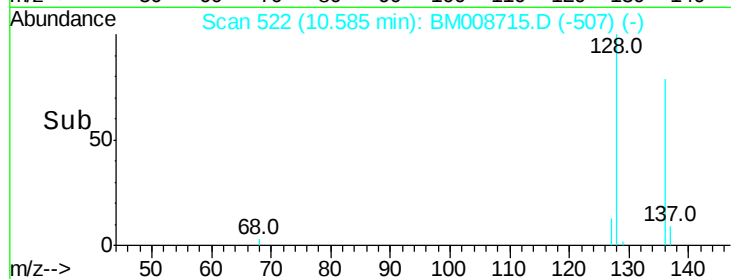
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Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E



Time-->



#5

2-Methylnaphthalene

Concen: 0.28 ng/ul m

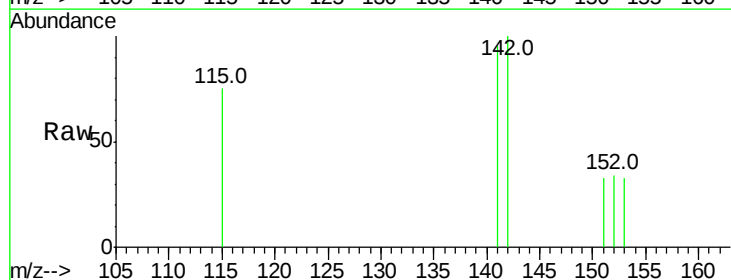
RT: 12.23 min Scan# 674

Delta R.T. 0.00 min

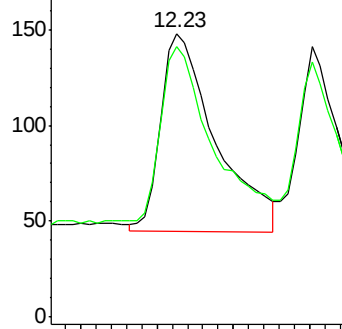
Lab File: BM008715.D

Acq: 29 Dec 2016 11:49

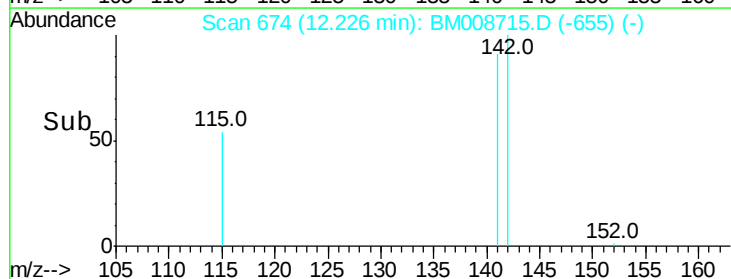
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 142   | Resp: | 521    |
| Ion      | Ratio | Lower | Upper  |
| 142      | 100   |       |        |
| 141      | 0.0   | 72.6  | 108.8# |

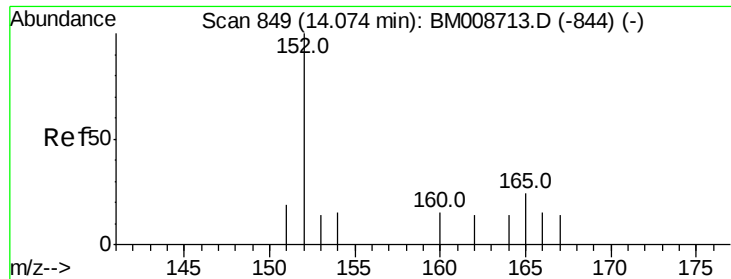


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E



Time-->





#7

Acenaphthylene

Concen: 0.06 ng/ul m

RT: 14.06 min Scan# 848

Delta R.T. -0.02 min

Lab File: BM008715.D

Acq: 29 Dec 2016 11:49

Instrument :

BNA\_M

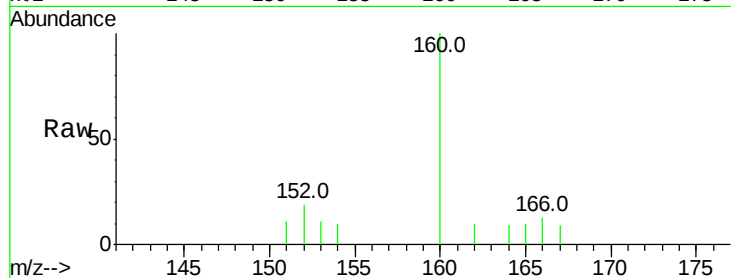
ClientSampleId :

DA7G4DL

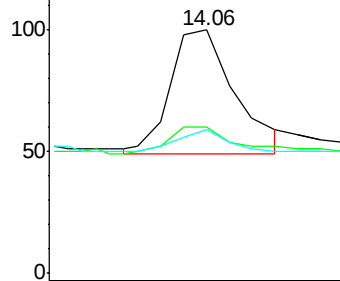
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 164   |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 60.0  | 17.1  | 25.7# |
| 153       | 59.0  | 12.8  | 19.2# |

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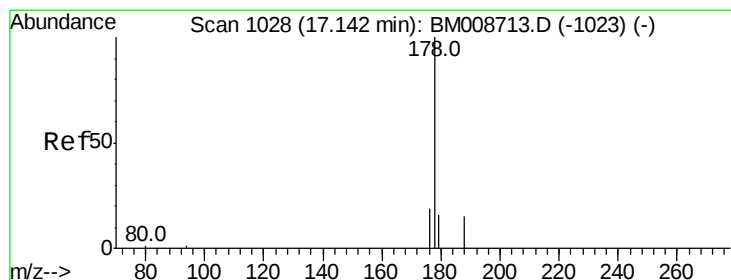
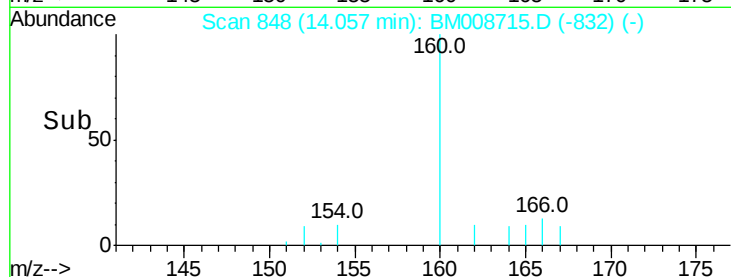
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Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E



Time-->



#12

Phenanthrene

Concen: 0.61 ng/ul m

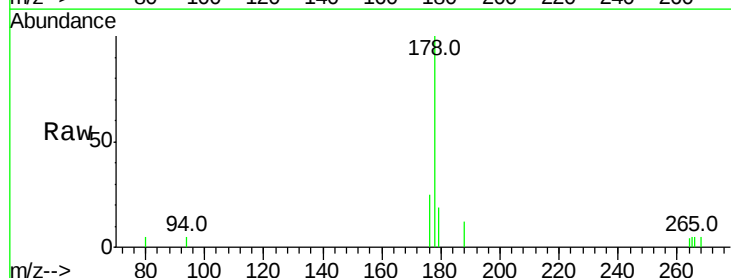
RT: 17.11 min Scan# 1026

Delta R.T. -0.03 min

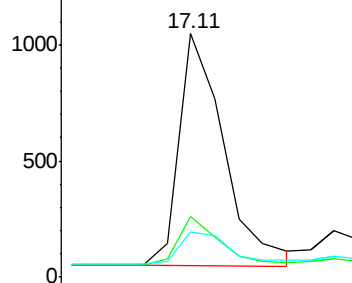
Lab File: BM008715.D

Acq: 29 Dec 2016 11:49

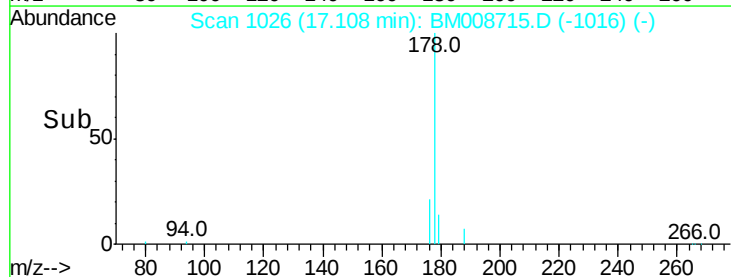
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 2240 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 176       | 25.0  | 18.4  | 27.6 |
| 179       | 18.8  | 13.6  | 20.4 |

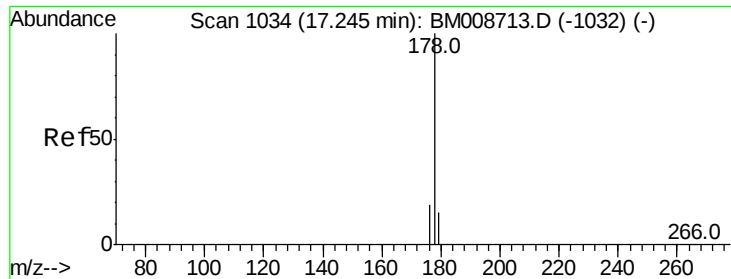


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E



Time-->





#13

Anthracene

Concen: 0.11 ng/ul m

RT: 17.21 min Scan# 1032

Delta R.T. -0.03 min

Lab File: BM008715.D

Acq: 29 Dec 2016 11:49

Instrument :

BNA\_M

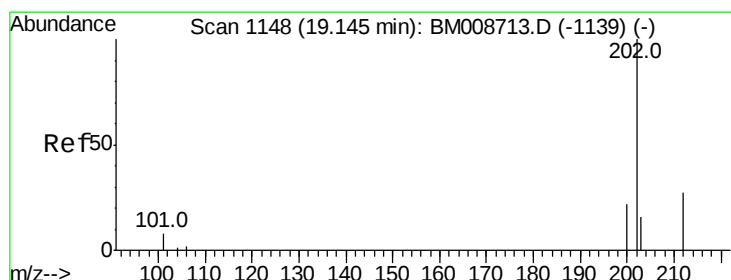
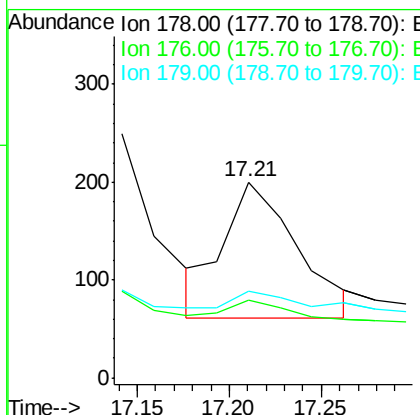
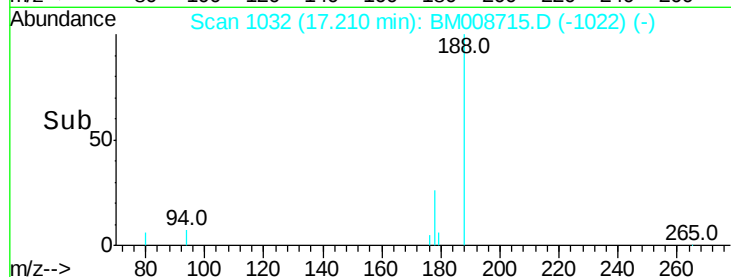
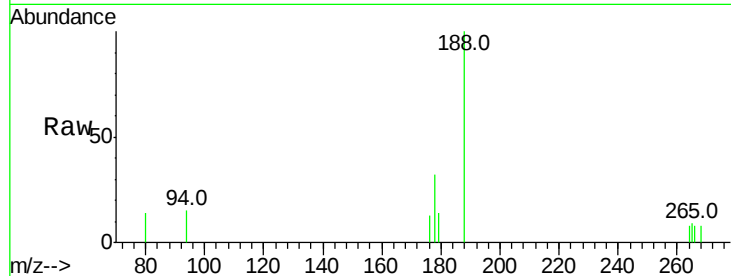
ClientSampleId :

DA7G4DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 387   |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 40.0  | 18.1  | 27.1# |
| 179       | 44.0  | 14.7  | 22.1# |

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#15

Fluoranthene

Concen: 0.77 ng/ul m

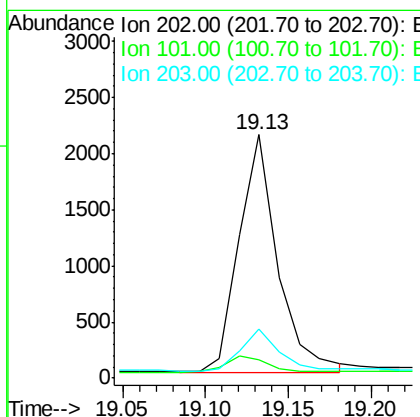
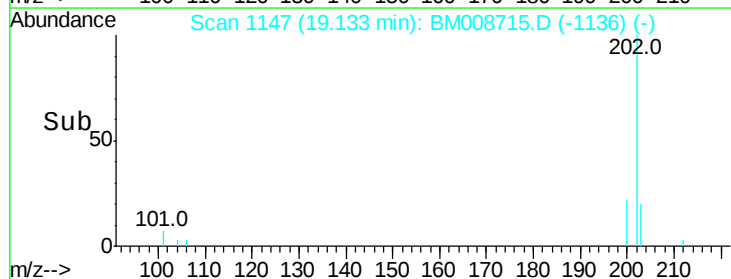
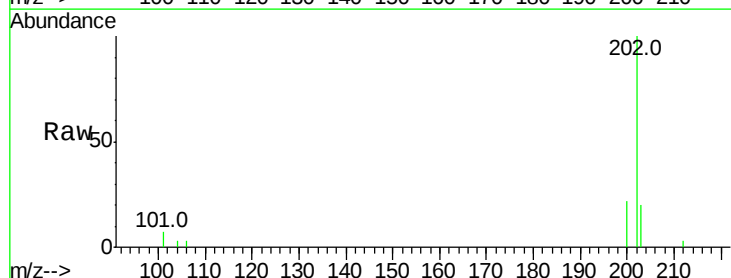
RT: 19.13 min Scan# 1147

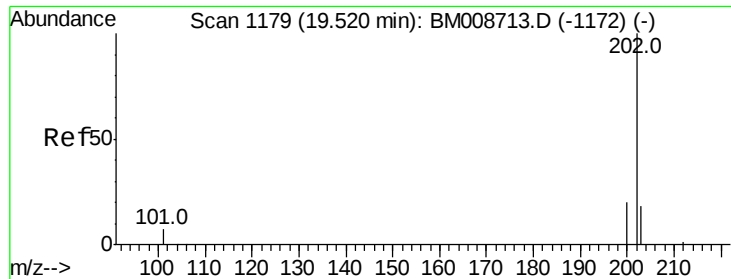
Delta R.T. -0.01 min

Lab File: BM008715.D

Acq: 29 Dec 2016 11:49

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 3461 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 7.3   | 0.0   | 30.3 |
| 203       | 20.2  | 0.0   | 39.5 |





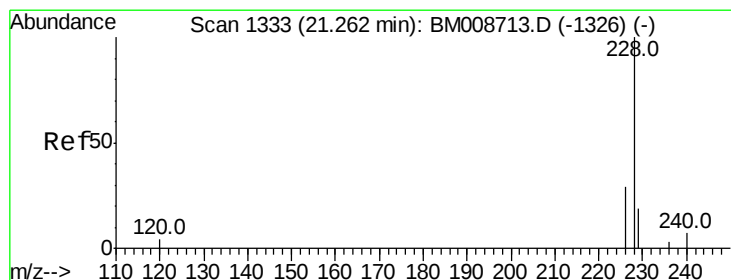
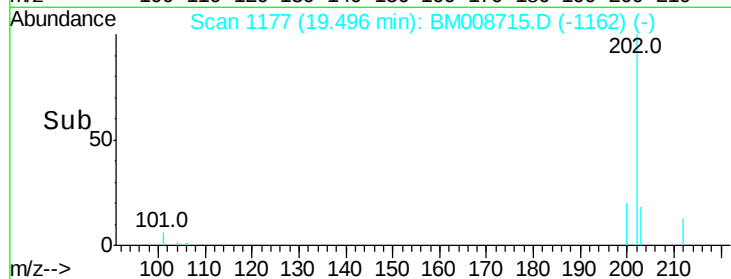
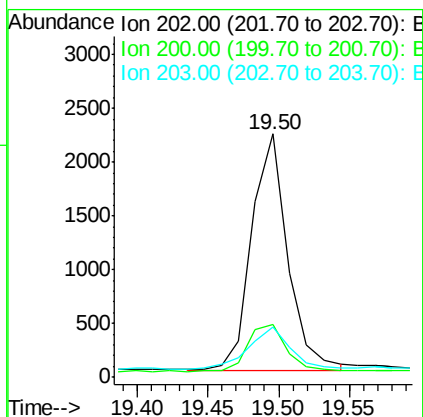
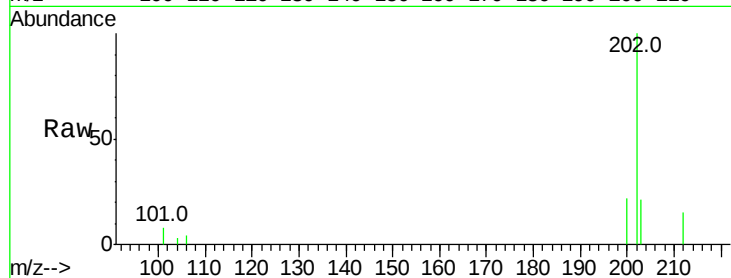
#17  
Pvrene  
Concen: 0.83 ng/ul m  
RT: 19.50 min Scan# 1177  
Delta R.T. -0.02 min  
Lab File: BM008715.D  
Acq: 29 Dec 2016 11:49

Instrument :  
BNA\_M  
ClientSampleId :  
DA7G4DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 202   | Resp: | 3932 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 200       | 21.8  | 18.2  | 27.4 |
| 203       | 20.9  | 15.6  | 23.4 |

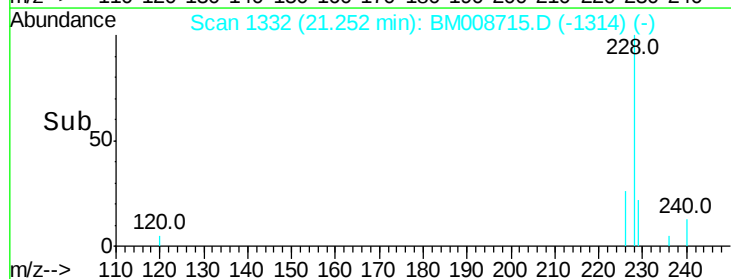
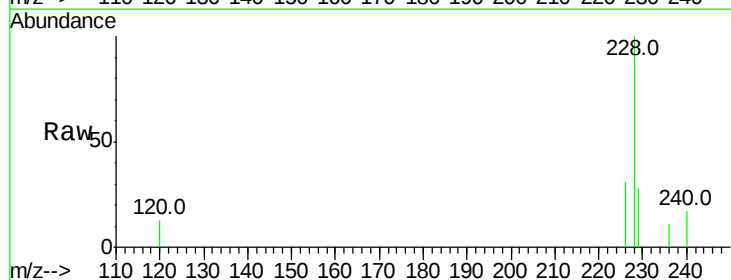
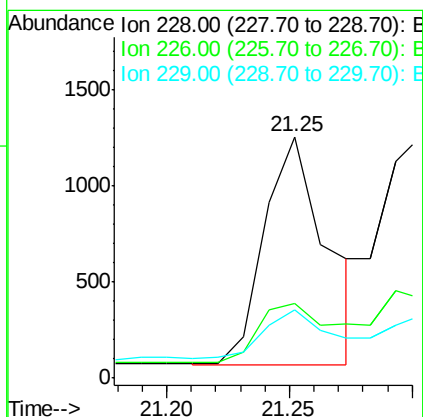
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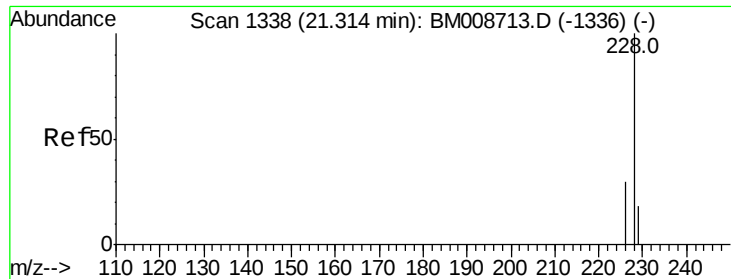
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12/30/2016 8:42:36 AM



#18  
Benzo(a)anthracene  
Concen: 0.53 ng/ul m  
RT: 21.25 min Scan# 1332  
Delta R.T. -0.01 min  
Lab File: BM008715.D  
Acq: 29 Dec 2016 11:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 2104  |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.1  | 22.8  | 34.2  |
| 229       | 28.3  | 17.0  | 25.6# |





#19

Chrysene

Concen: 0.55 ng/ul m

RT: 21.30 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BM008715.D

Acq: 29 Dec 2016 11:49

Instrument :

BNA\_M

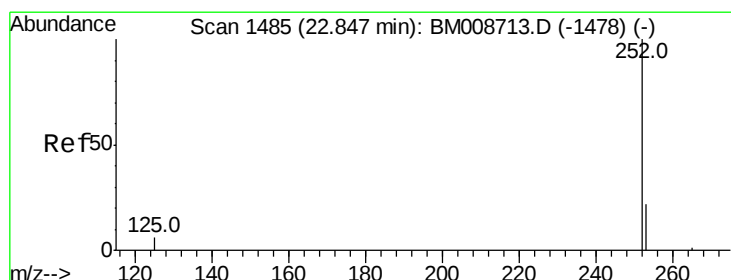
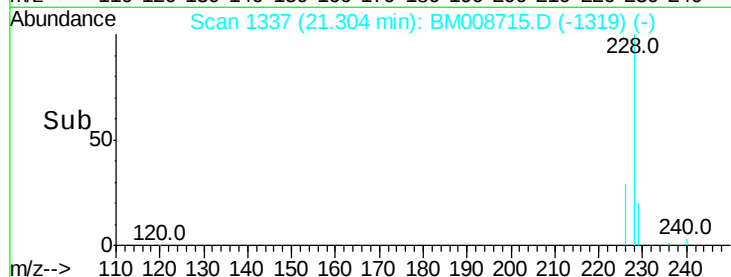
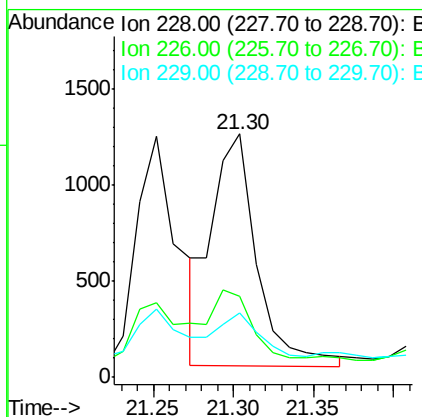
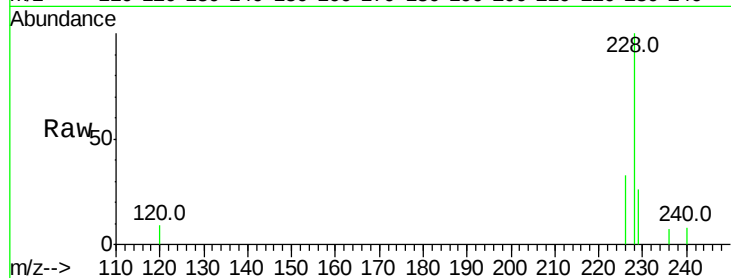
ClientSampleID :

DA7G4DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 228   | Resp: | 2404 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 33.2  | 23.4  | 35.0 |
| 229       | 26.3  | 17.7  | 26.5 |

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#21

Benzo(b)fluoranthene

Concen: 0.75 ng/ul m

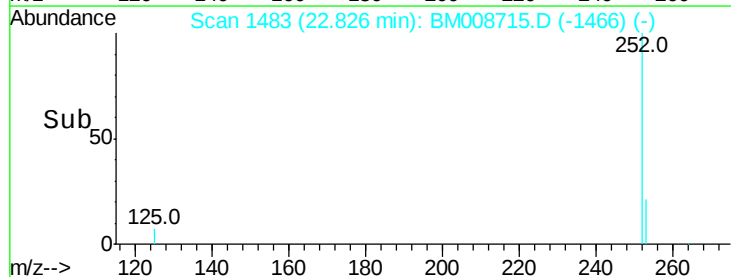
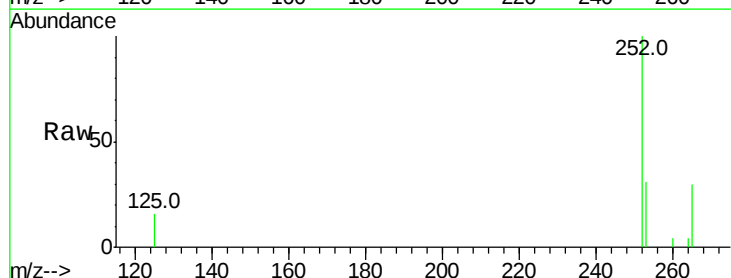
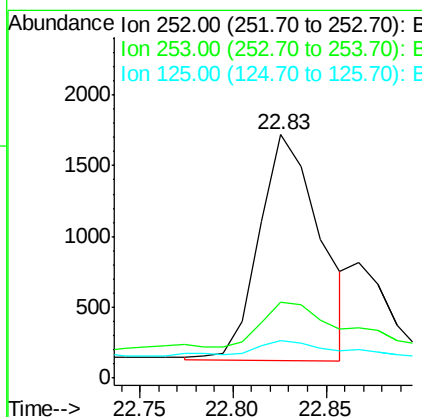
RT: 22.83 min Scan# 1483

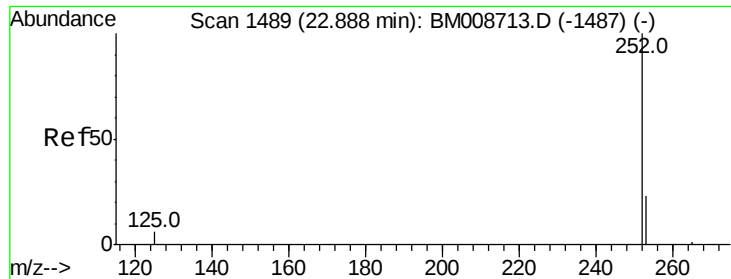
Delta R.T. -0.02 min

Lab File: BM008715.D

Acq: 29 Dec 2016 11:49

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 3628 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 31.2  | 0.0   | 64.2 |
| 125       | 15.5  | 0.0   | 35.0 |





#22

Benzo(k)fluoranthene

Concen: 0.26 ng/ul m

RT: 22.87 min Scan# 1487

Delta R.T. -0.02 min

Lab File: BM008715.D

Acq: 29 Dec 2016 11:49

Instrument :

BNA\_M

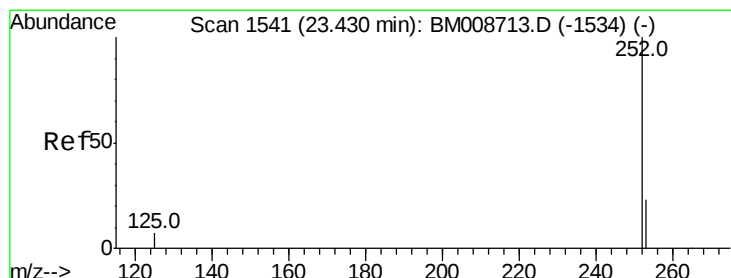
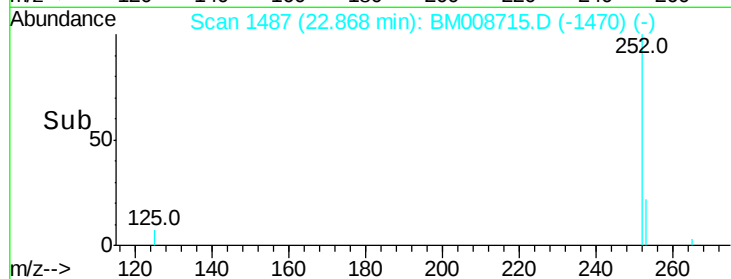
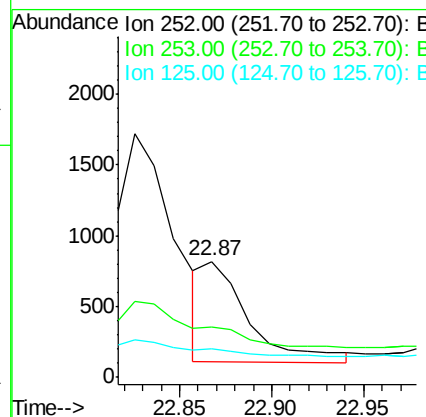
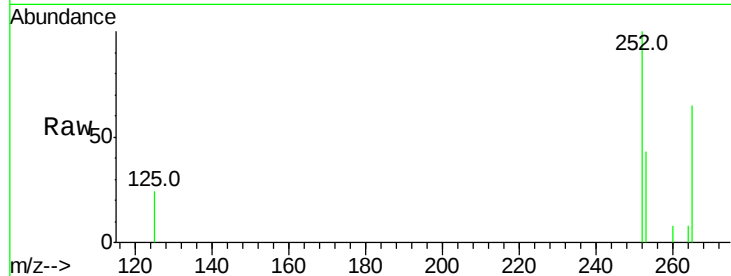
ClientSampleId :

DA7G4DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 1207  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 42.9  | 24.5  | 36.7# |
| 125       | 24.2  | 13.7  | 20.5# |

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#23

Benzo(a)pyrene

Concen: 0.51 ng/ul m

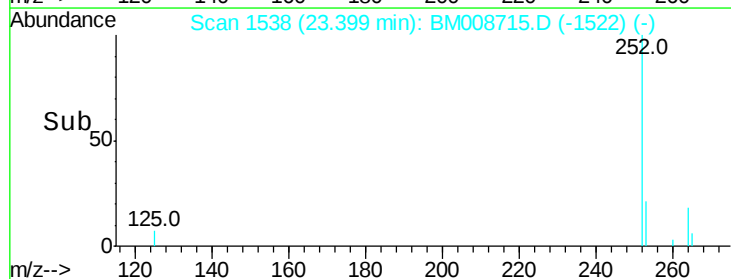
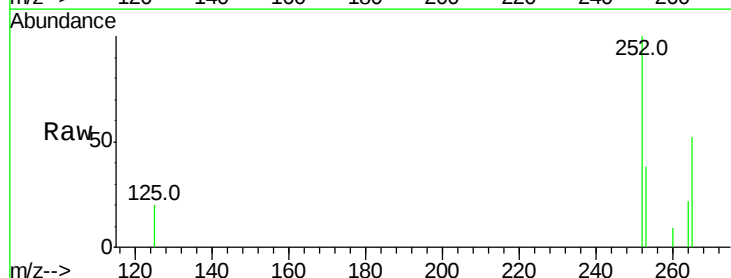
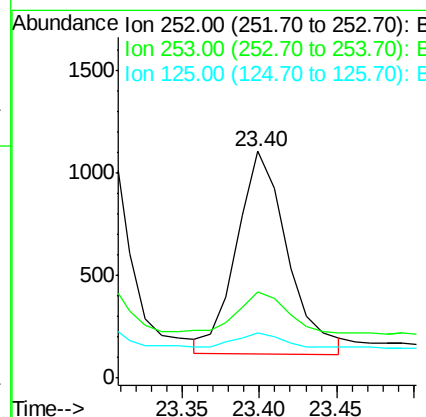
RT: 23.40 min Scan# 1538

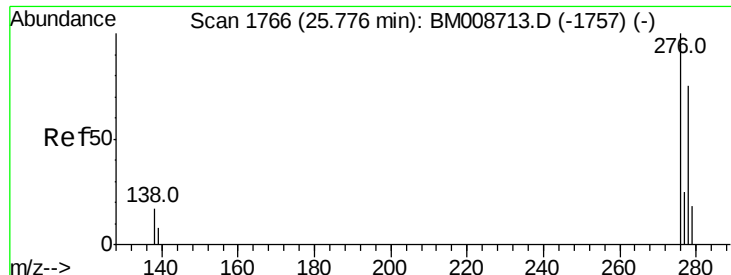
Delta R.T. -0.03 min

Lab File: BM008715.D

Acq: 29 Dec 2016 11:49

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 2268 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 38.0  | 28.5  | 42.7 |
| 125       | 20.0  | 18.1  | 27.1 |





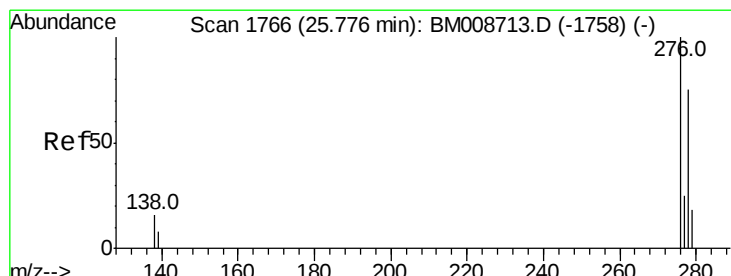
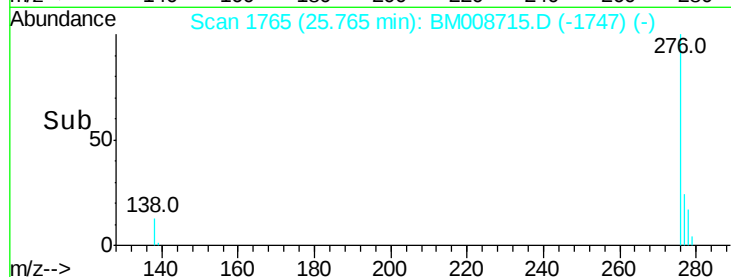
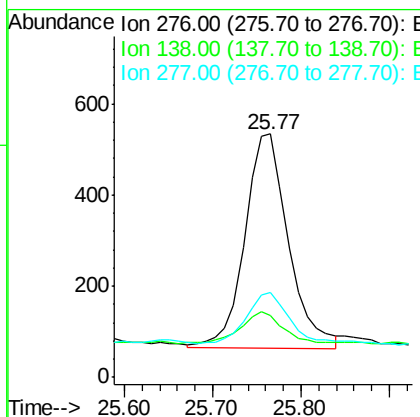
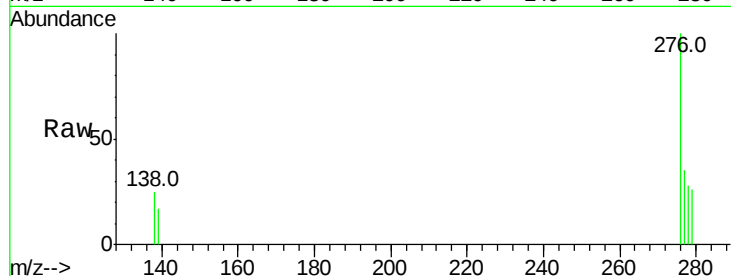
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.30 ng/ul m  
 RT: 25.77 min Scan# 1765  
 Delta R.T. -0.01 min  
 Lab File: BM008715.D  
 Acq: 29 Dec 2016 11:49

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DA7G4DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 0.0   | 19.1  | 28.7# |
| 277     | 0.0   | 19.6  | 29.4# |

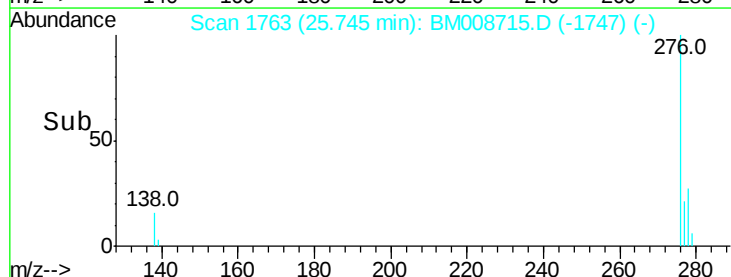
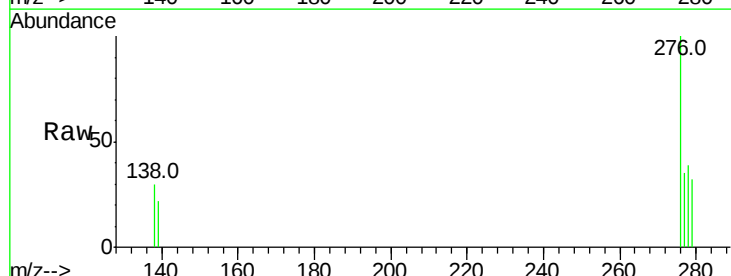
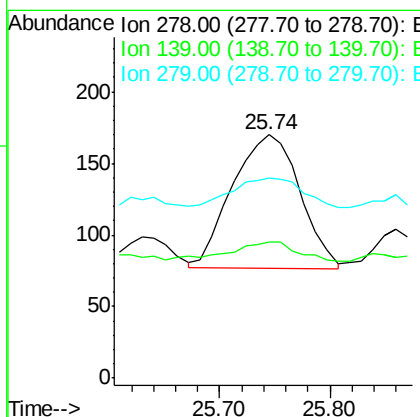
Manual Integrations  
 APPROVED

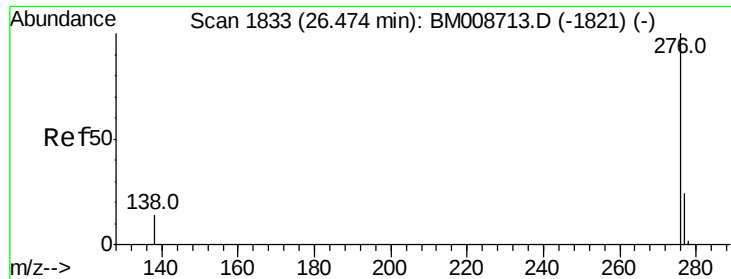
Sohil  
 12/30/2016 8:42:36 AM



#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.09 ng/ul m  
 RT: 25.74 min Scan# 1763  
 Delta R.T. -0.03 min  
 Lab File: BM008715.D  
 Acq: 29 Dec 2016 11:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 55.9  | 17.4  | 26.0# |
| 279     | 82.4  | 25.9  | 38.9# |





#26

Benzo(a,h,i)perylene

Concen: 0.51 ng/ul m

RT: 26.45 min Scan# 1831

Delta R.T. -0.02 min

Lab File: BM008715.D

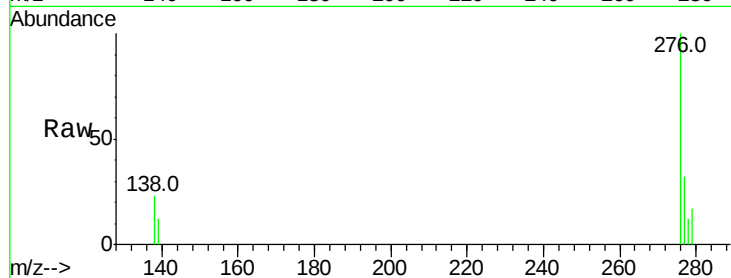
Acq: 29 Dec 2016 11:49

Instrument :

BNA\_M

ClientSampleId :

DA7G4DL



|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 276   | Resp: | 2314 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 277       | 31.8  | 21.8  | 32.8 |
| 138       | 22.9  | 20.5  | 30.7 |

Manual Integrations  
APPROVED

Sohil  
12/30/2016 8:42:36 AM

