

Data Path : Z:\HPCHEM1\BNA M\DATA\BM073115\  
 Data File : BM002150.D  
 Acq On : 31 Jul 2015 11:22  
 Operator : TP/UM  
 Sample : G3030-03DL 5X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C01MODL

Manual Integrations  
 APPROVED

MMDadoda  
 8/3/2015 3:39:27 PM

Quant Time: Aug 01 06:43:11 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM072715.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Aug 01 02:15:30 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.57  | 152  | 39114    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.36 | 136  | 156541   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.24 | 164  | 95874    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 16.99 | 188  | 219605   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.20 | 240  | 257648   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.39 | 264  | 269896   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |       |      |
|--------------------------------|-------|-----|-------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 0.00  | 96  | 0d    | 0.00 | ng/uL |      |
| 5) Phenol-d5                   | 6.76  | 99  | 11665 | 4.17 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.91  | 67  | 6443  | 4.17 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.10  | 132 | 10106 | 4.26 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.29  | 113 | 9079  | 4.08 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.73  | 128 | 4732  | 4.25 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.46  | 143 | 5106  | 4.13 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.99  | 165 | 9974  | 4.19 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.51 | 131 | 7871  | 3.01 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.65 | 166 | 32527 | 4.63 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.93 | 160 | 36976 | 4.21 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.48 | 143 | 3066  | 2.62 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.24 | 176 | 28107 | 4.55 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.38 | 200 | 1845  | 1.37 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.09 | 188 | 41772 | 4.26 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.40 | 212 | 45496 | 4.19 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.25 | 264 | 49420 | 3.78 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |       |        | Ovalue |
|--------------------------------|-------|-----|---------|-------|--------|--------|
| 45) Dimethylphthalate          | 13.70 | 163 | 16580   | 2.36  | ng/ul  | 99     |
| 50) Acenaphthene               | 14.30 | 153 | 24855   | 4.18  | ng/ul  | 99     |
| 54) Dibenzofuran               | 14.64 | 168 | 14140   | 1.66  | ng/ul  | 98     |
| 59) Fluorene                   | 15.29 | 166 | 22708   | 3.23  | ng/ul  | 98     |
| 70) Phenanthrene               | 17.03 | 178 | 332307  | 29.21 | ng/ul  | 99     |
| 72) Anthracene                 | 17.13 | 178 | 81223   | 6.98  | ng/ul  | 99     |
| 75) Carbazole                  | 17.40 | 167 | 31120   | 3.13  | ng/ul  | 96     |
| 76) Di-n-butylphthalate        | 17.96 | 149 | 30811   | 2.60  | ng/ul  | 97     |
| 77) Fluoranthene               | 19.06 | 202 | 530586  | 40.40 | ng/ul  | 99     |
| 80) Pyrene                     | 19.43 | 202 | 441618  | 31.50 | ng/ul  | 99     |
| 83) Benzo(a)anthracene         | 21.18 | 228 | 265653  | 18.60 | ng/ul  | 97     |
| 84) Bis(2-ethylhexyl)phthalate | 21.11 | 149 | 21423   | 2.61  | ng/ul# | 98     |
| 85) Chrysene                   | 21.23 | 228 | 249621  | 18.68 | ng/ul  | 97     |
| 88) Benzo(b)fluoranthene       | 22.74 | 252 | 304592  | 20.08 | ng/ul  | 98     |
| 89) Benzo(k)fluoranthene       | 22.77 | 252 | 122142m | 8.35  | ng/ul  |        |
| 91) Benzo(a)pyrene             | 23.30 | 252 | 218996  | 14.96 | ng/ul  | 97     |
| 92) Indeno(1,2,3-cd)pyrene     | 25.60 | 276 | 145881  | 8.65  | ng/ul# | 94     |
| 93) Dibenzo(a,h)anthracene     | 25.60 | 278 | 40943   | 2.84  | ng/ul# | 92     |
| 94) Benzo(g,h,i)perylene       | 26.27 | 276 | 124228  | 8.79  | ng/ul  | 96     |

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

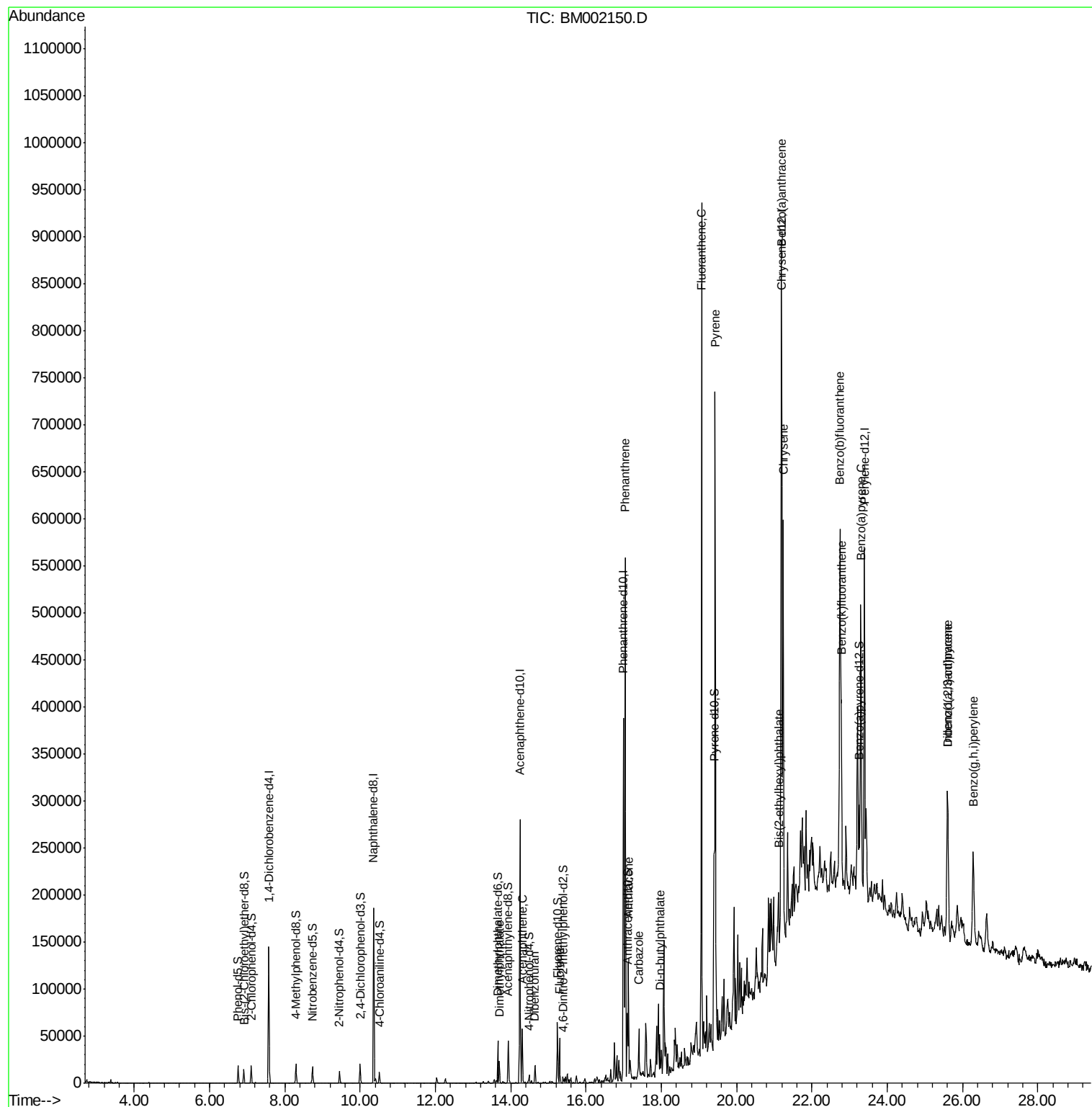
Data Path : Z:\HPCHEM1\BNA M\DATA\BM073115\  
Data File : BM002150.D  
Acq On : 31 Jul 2015 11:22  
Operator : TP/UM  
Sample : G3030-03DL 5X  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

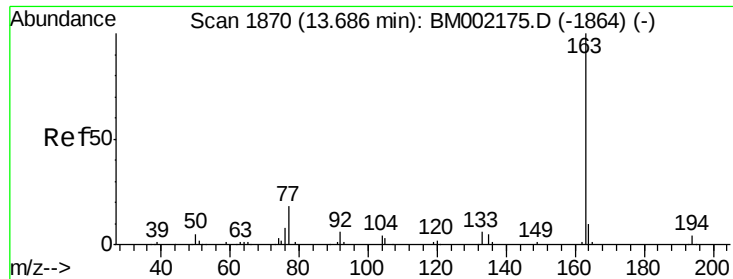
Instrument :  
BNA\_M  
ClientSampled :  
C01MODL

Manual Integrations  
APPROVED

MMDadoda  
8/3/2015 3:39:27 PM

Quant Time: Aug 01 06:43:11 2015  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM072715.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Aug 01 02:15:30 2015  
Response via : Initial Calibration





#45

Dimethylphthalate

Concen: 2.36 ng/ul

RT: 13.70 min Scan# 1872

Delta R.T. 0.00 min

Lab File: BM002150.D

Acq: 31 Jul 2015 11:22

Instrument :

BNA\_M

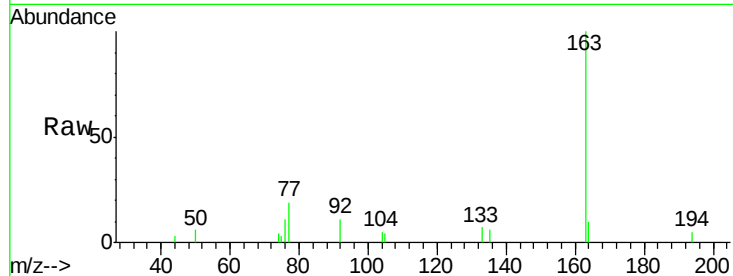
ClientSampleId :

C01MODL

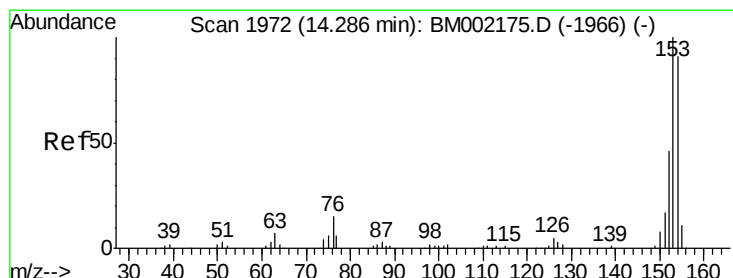
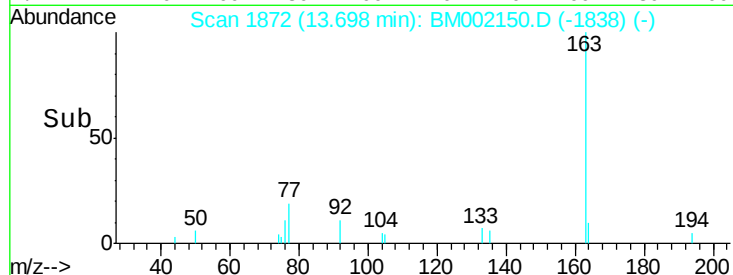
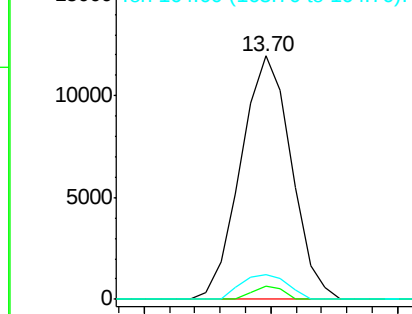
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 163   | Resp: | 16580 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 5.2   | 3.5   | 5.3   |
| 164       | 10.4  | 8.0   | 12.0  |

Manual Integrations  
APPROVED

MMDadoda  
8/3/2015 3:39:27 PM



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E



#50

Acenaphthene

Concen: 4.18 ng/ul

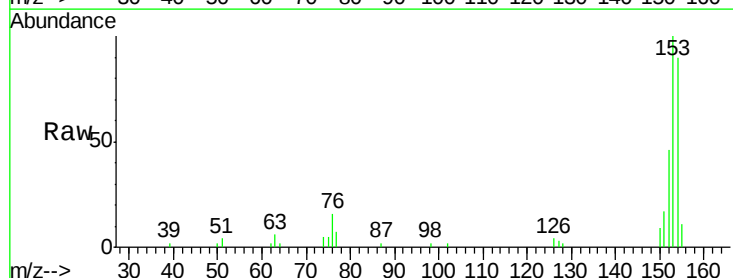
RT: 14.30 min Scan# 1975

Delta R.T. 0.00 min

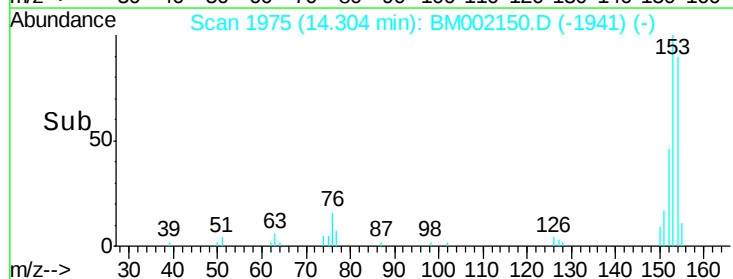
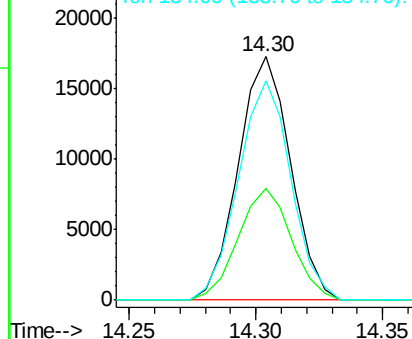
Lab File: BM002150.D

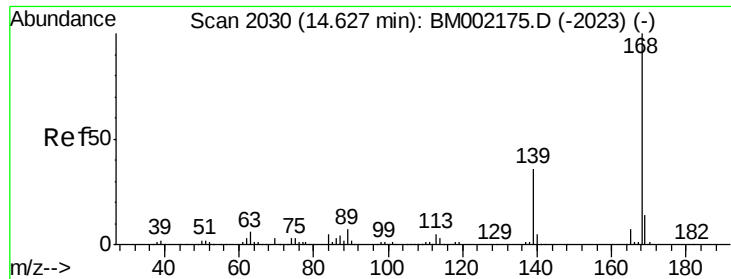
Acq: 31 Jul 2015 11:22

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 24855 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 45.7  | 37.3  | 55.9  |
| 154       | 89.9  | 71.4  | 107.2 |



Abundance Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E  
Ion 154.00 (153.70 to 154.70): E





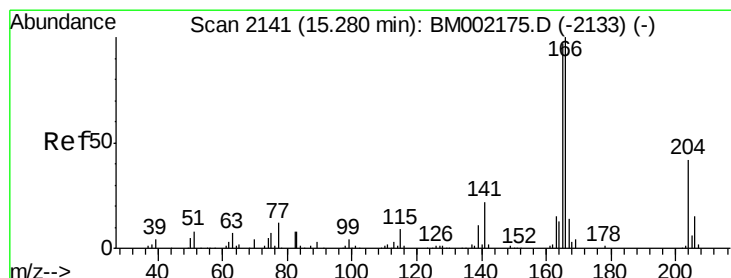
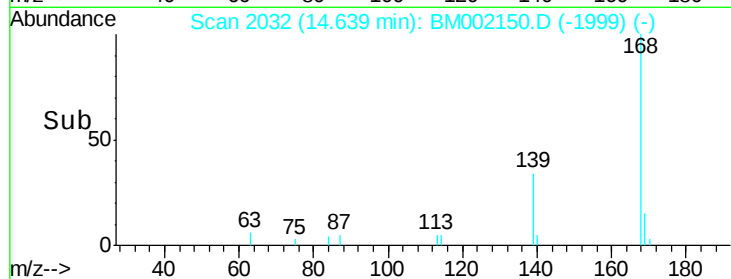
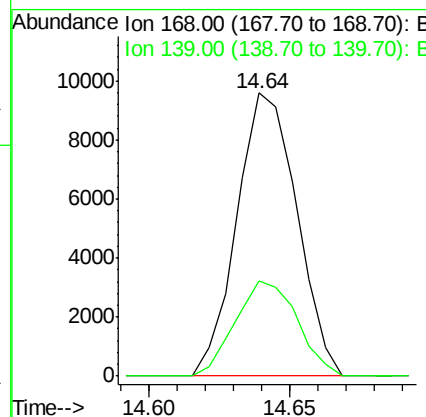
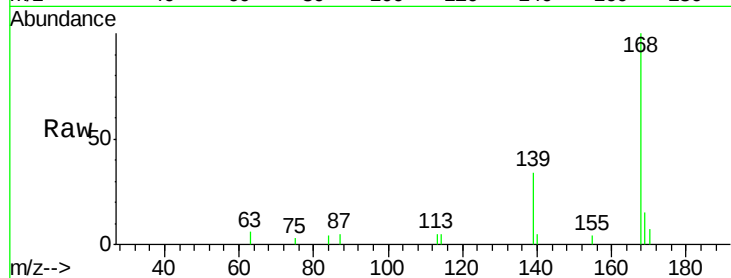
#54  
Dibenzenofuran  
Concen: 1.66 ng/ul  
RT: 14.64 min Scan# 2032  
Delta R.T. -0.01 min  
Lab File: BM002150.D  
Acq: 31 Jul 2015 11:22

Instrument :  
BNA\_M  
ClientSampleId :  
C01MODL

Tot Ion:168 Resp: 14140  
Ion Ratio Lower Upper  
168 100  
139 33.8 28.2 42.2

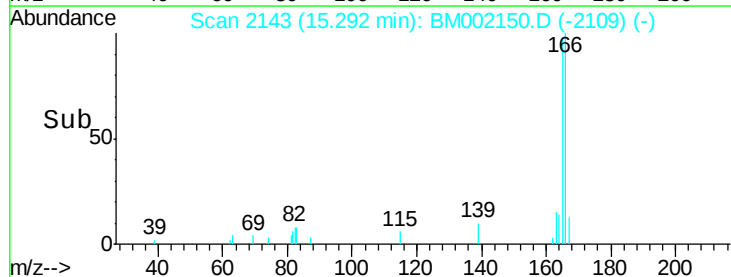
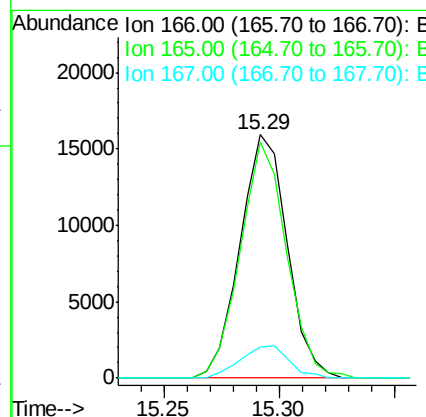
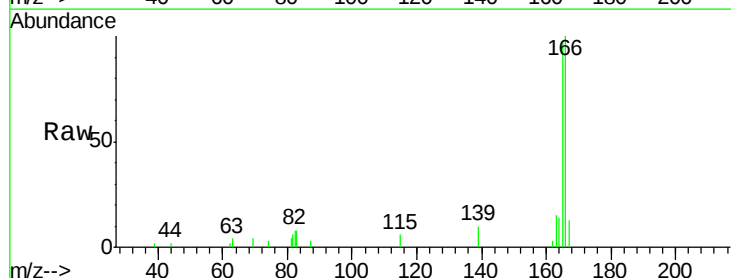
Manual Integrations  
APPROVED

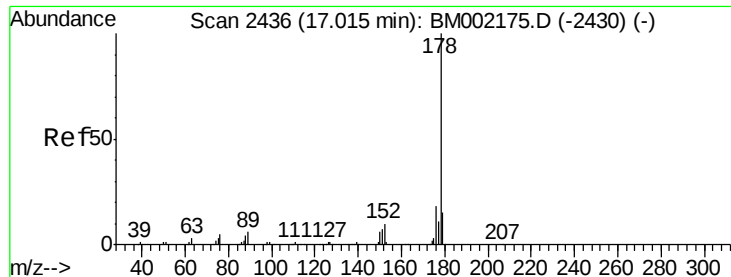
MMDadoda  
8/3/2015 3:39:27 PM



#59  
Fluorene  
Concen: 3.23 ng/ul  
RT: 15.29 min Scan# 2143  
Delta R.T. 0.00 min  
Lab File: BM002150.D  
Acq: 31 Jul 2015 11:22

Tgt Ion:166 Resp: 22708  
Ion Ratio Lower Upper  
166 100  
165 96.8 75.6 113.4  
167 12.9 10.5 15.7





#70

Phenanthrene

Concen: 29.21 ng/ul

RT: 17.03 min Scan# 2439

Delta R.T. 0.00 min

Lab File: BM002150.D

Acq: 31 Jul 2015 11:22

Instrument :

BNA\_M

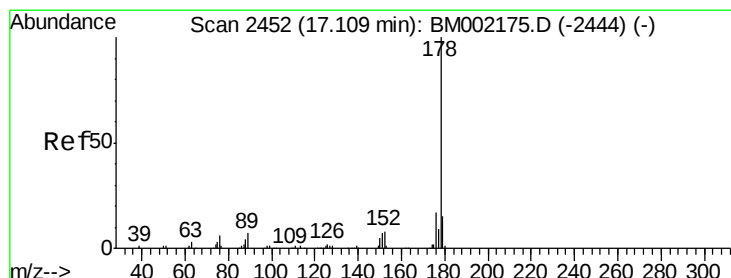
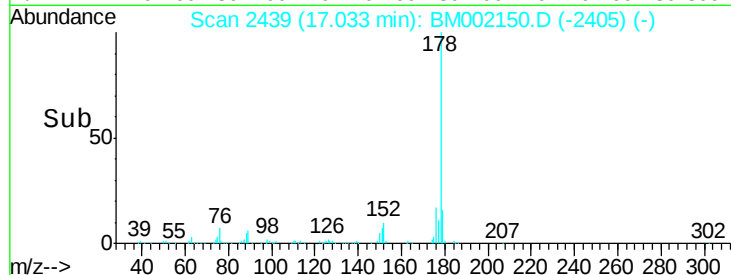
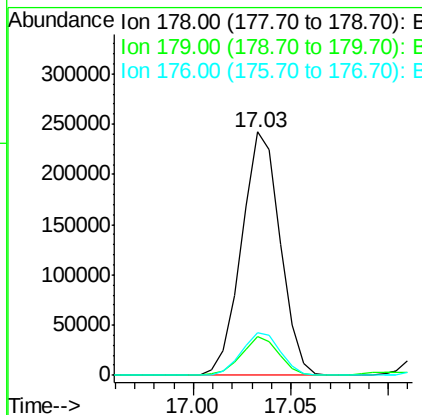
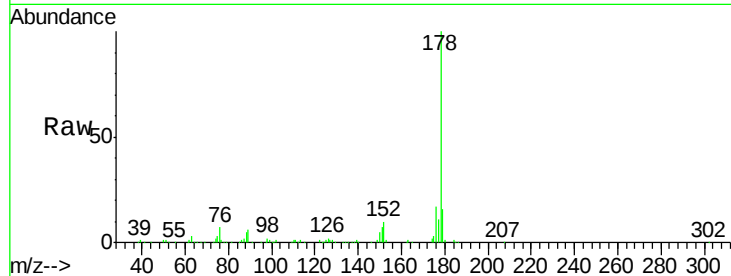
ClientSampleId :

C01MODL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 332307 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.7  | 12.5  | 18.7   |
| 176       | 17.4  | 14.2  | 21.4   |

Manual Integrations  
APPROVED

MMDadoda  
8/3/2015 3:39:27 PM



#72

Anthracene

Concen: 6.98 ng/ul

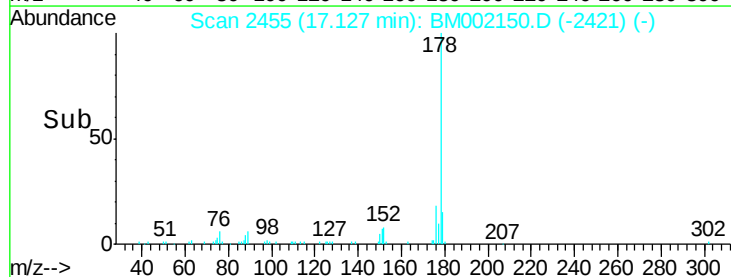
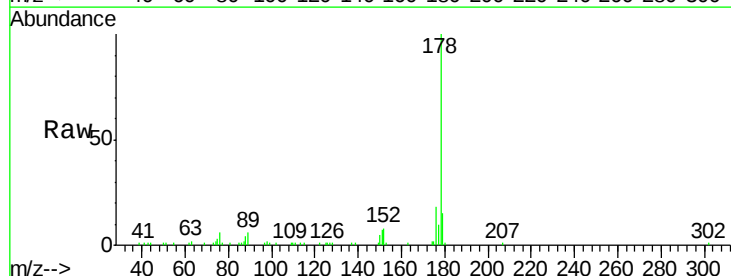
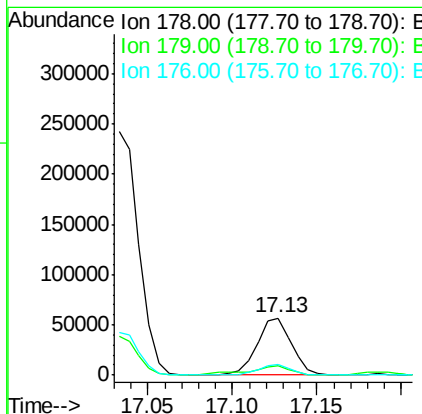
RT: 17.13 min Scan# 2455

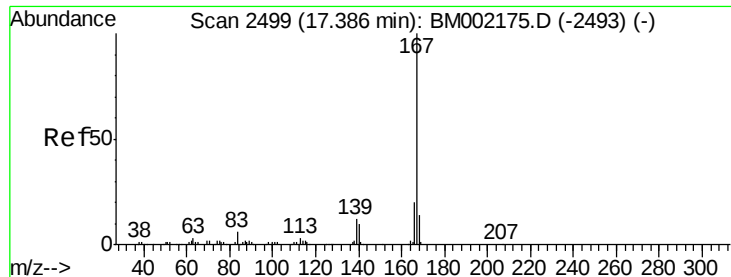
Delta R.T. 0.00 min

Lab File: BM002150.D

Acq: 31 Jul 2015 11:22

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 81223 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 15.4  | 12.1  | 18.1  |
| 176       | 17.9  | 14.1  | 21.1  |





#75

Carbazole

Concen: 3.13 ng/ul

RT: 17.40 min Scan# 2502

Delta R.T. 0.00 min

Lab File: BM002150.D

Acq: 31 Jul 2015 11:22

Instrument :

BNA\_M

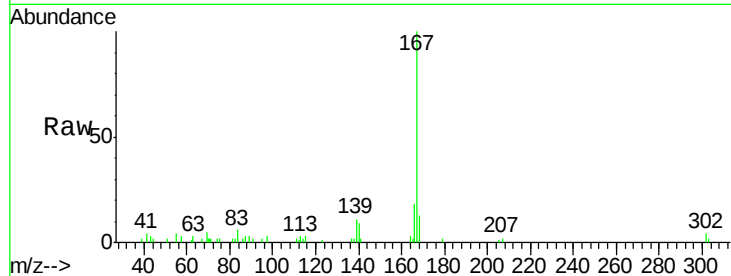
ClientSampleId :

C01MODL

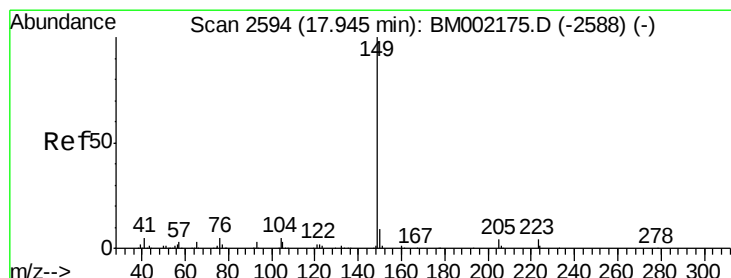
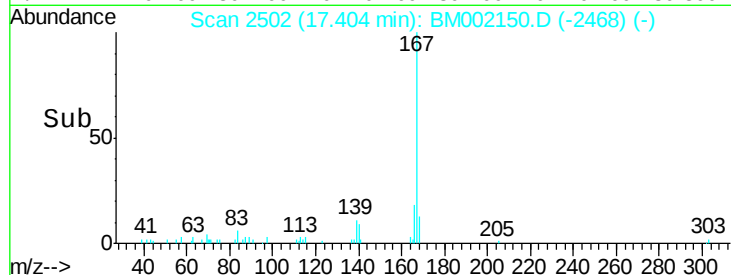
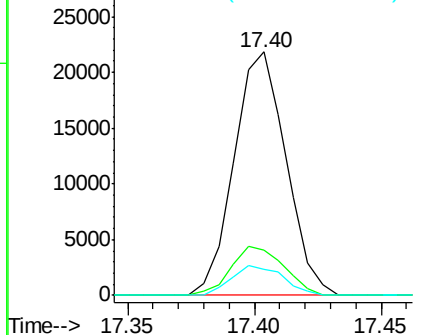
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 167   | Resp: | 31120 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 18.3  | 16.2  | 24.4  |
| 139       | 10.8  | 9.6   | 14.4  |

Manual Integrations  
APPROVED

MMDadoda  
8/3/2015 3:39:27 PM



Abundance Ion 167.00 (166.70 to 167.70): E  
Ion 166.00 (165.70 to 166.70): E  
Ion 139.00 (138.70 to 139.70): E



#76

Di-n-butylphthalate

Concen: 2.60 ng/ul

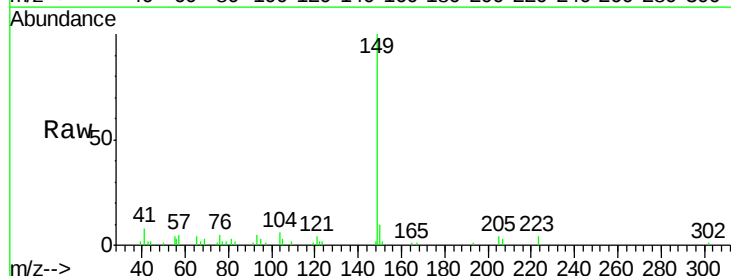
RT: 17.96 min Scan# 2596

Delta R.T. -0.01 min

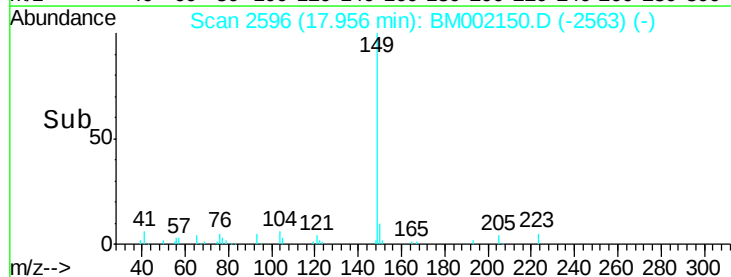
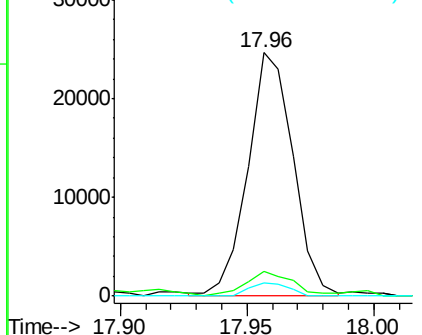
Lab File: BM002150.D

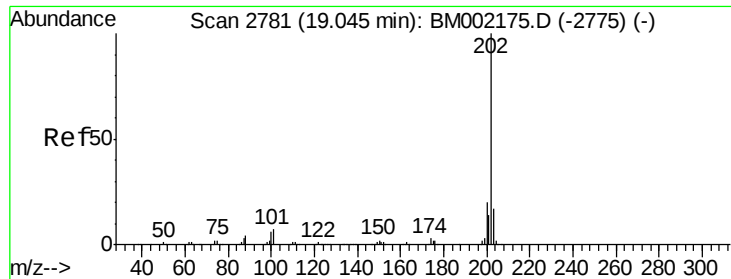
Acq: 31 Jul 2015 11:22

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 30811 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 150       | 10.0  | 7.0   | 10.4  |
| 104       | 5.6   | 4.2   | 6.2   |



Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 104.00 (103.70 to 104.70): E





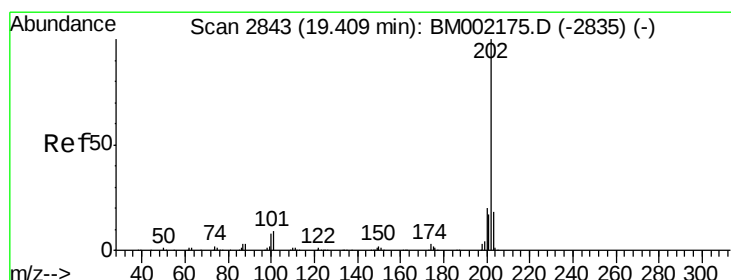
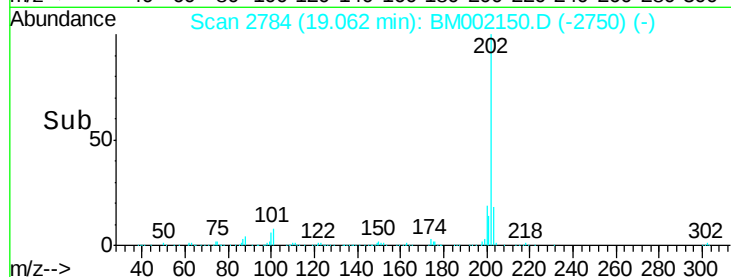
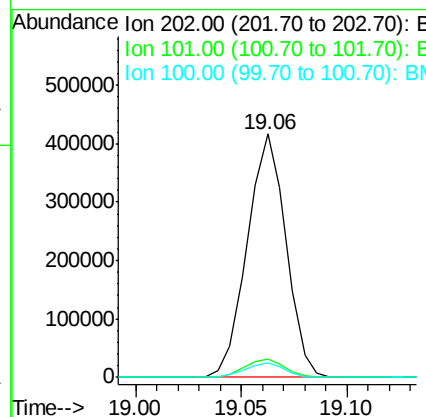
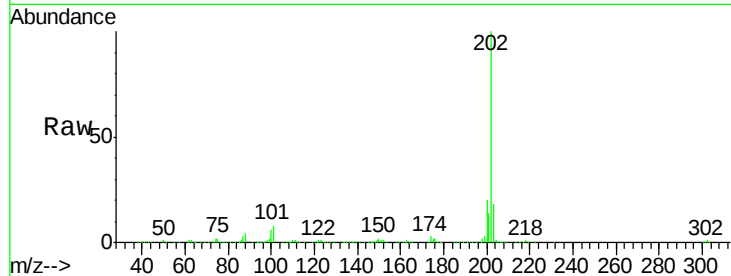
#77  
 Fluoranthene  
 Concen: 40.40 ng/ul  
 RT: 19.06 min Scan# 2784  
 Delta R.T. 0.00 min  
 Lab File: BM002150.D  
 Acq: 31 Jul 2015 11:22

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C01MODL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 530586 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 7.6   | 6.2   | 9.4    |
| 100       | 5.7   | 5.2   | 7.8    |

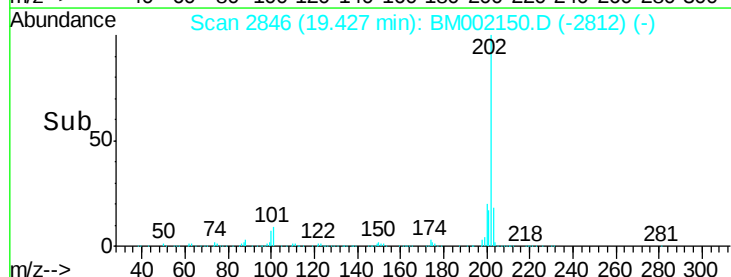
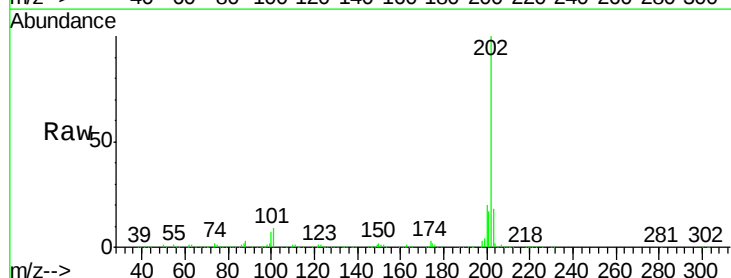
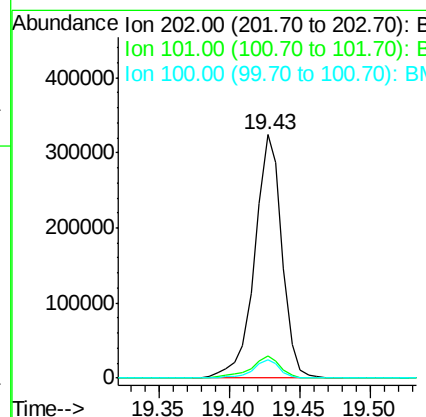
Manual Integrations  
 APPROVED

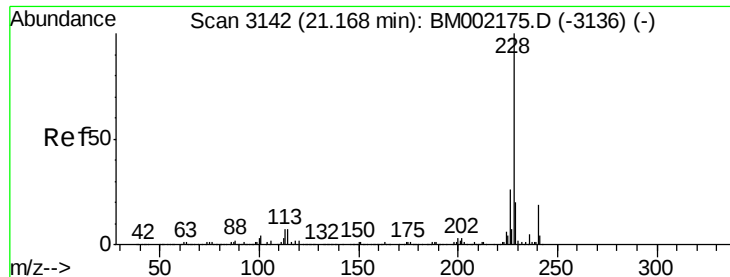
MMDadoda  
 8/3/2015 3:39:27 PM



#80  
 Pyrene  
 Concen: 31.50 ng/ul  
 RT: 19.43 min Scan# 2846  
 Delta R.T. 0.00 min  
 Lab File: BM002150.D  
 Acq: 31 Jul 2015 11:22

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 441618 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 9.4   | 7.4   | 11.2   |
| 100       | 7.4   | 6.3   | 9.5    |





#83

Benzo(a)anthracene

Concen: 18.60 ng/ul

RT: 21.18 min Scan# 3144

Delta R.T. 0.00 min

Lab File: BM002150.D

Acq: 31 Jul 2015 11:22

Instrument :

BNA\_M

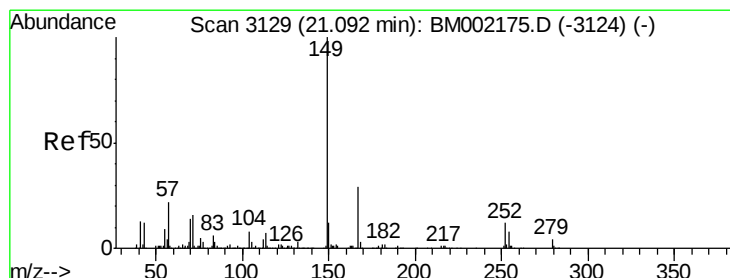
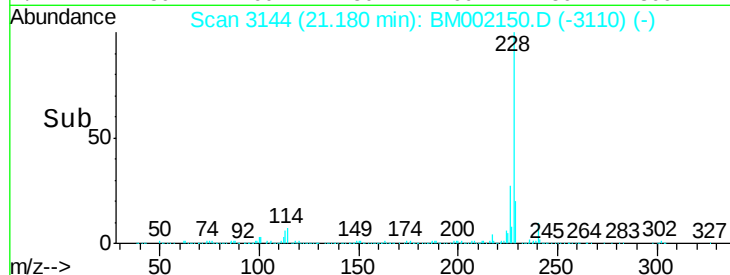
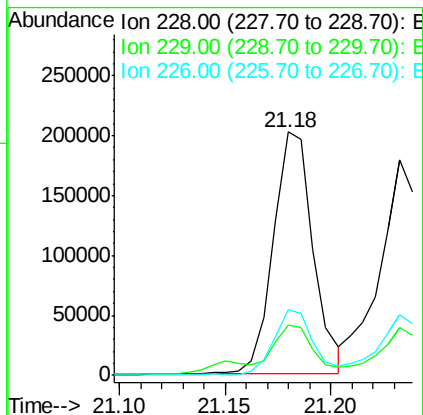
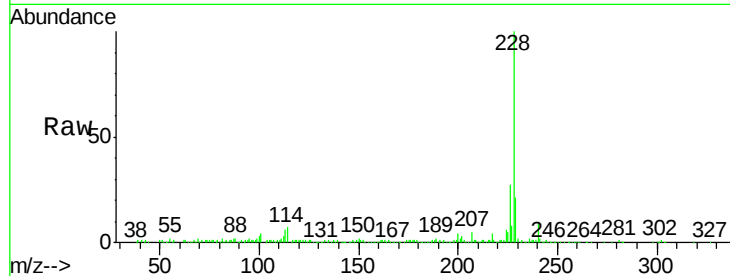
ClientSampleId :

C01MODL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 265653 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 20.8  | 15.4  | 23.2   |
| 226       | 26.8  | 20.5  | 30.7   |

Manual Integrations  
APPROVED

MMDadoda  
8/3/2015 3:39:27 PM



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.61 ng/ul

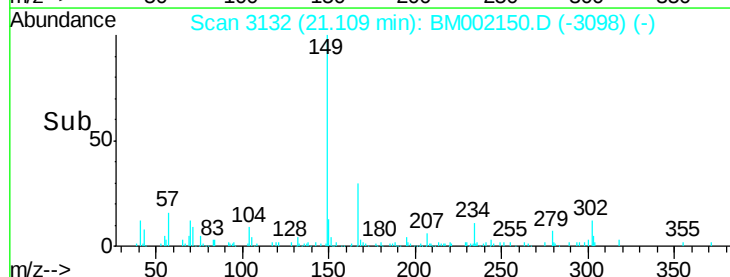
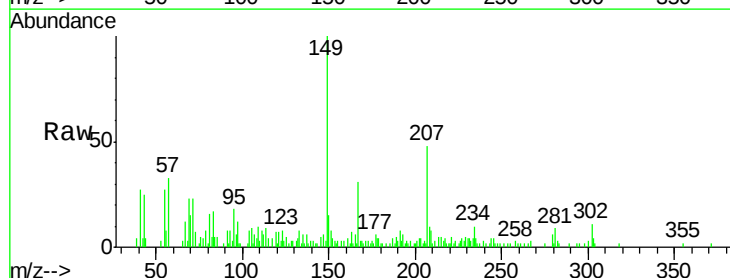
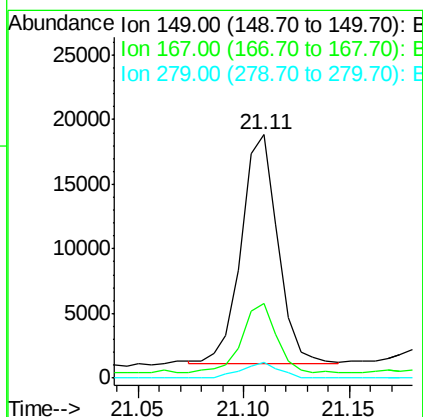
RT: 21.11 min Scan# 3132

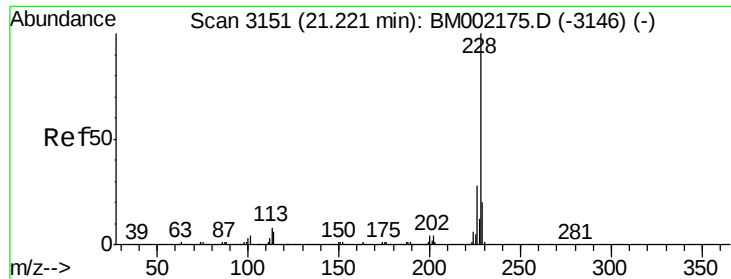
Delta R.T. 0.00 min

Lab File: BM002150.D

Acq: 31 Jul 2015 11:22

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 21423 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 30.7  | 23.6  | 35.4  |
| 279       | 6.4   | 4.2   | 6.4#  |





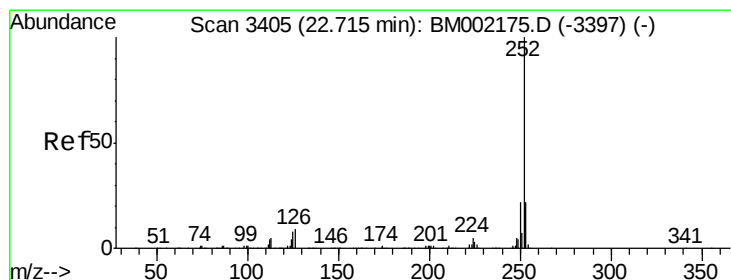
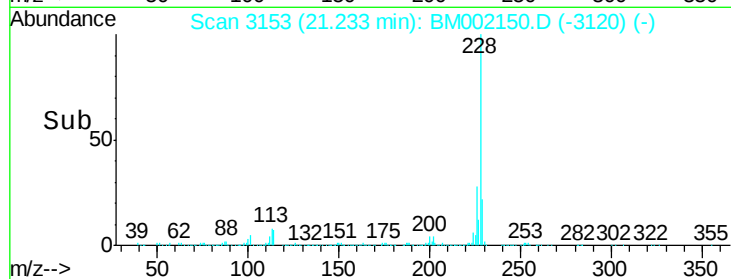
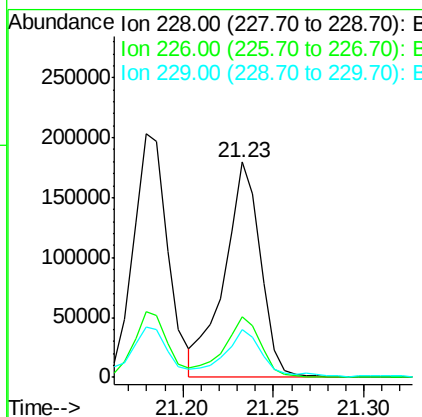
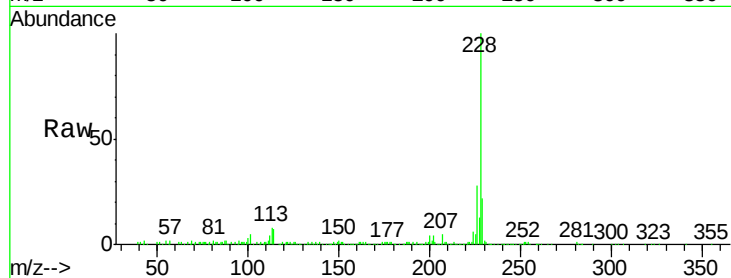
#85  
Chrysene  
Concen: 18.68 ng/ul  
RT: 21.23 min Scan# 3153  
Delta R.T. -0.01 min  
Lab File: BM002150.D  
Acq: 31 Jul 2015 11:22

Instrument :  
BNA\_M  
ClientSampleId :  
C01MODL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.3  | 22.3  | 33.5  |
| 229     | 22.0  | 15.5  | 23.3  |

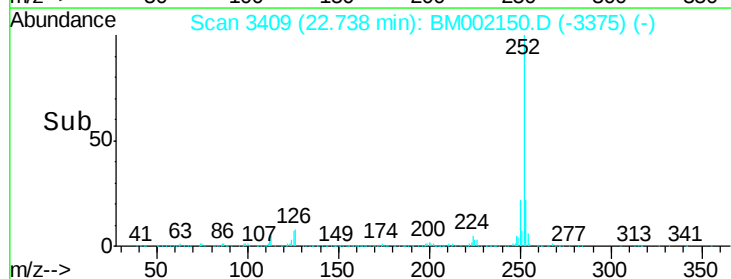
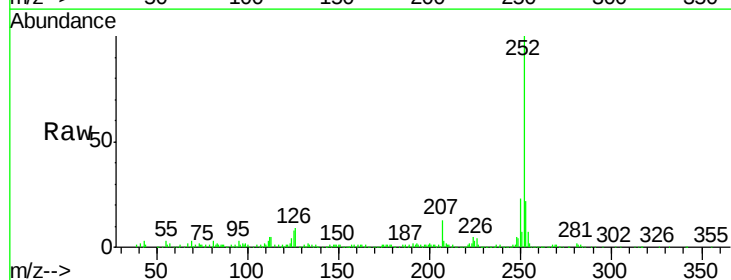
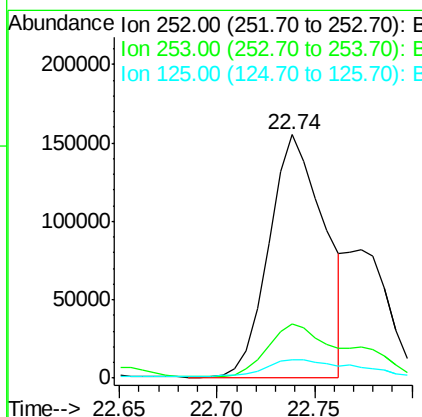
Manual Integrations  
APPROVED

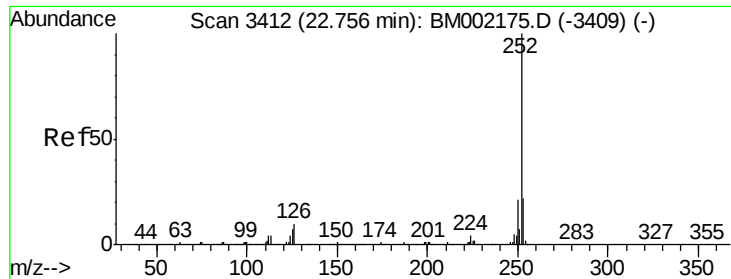
MMDadoda  
8/3/2015 3:39:27 PM



#88  
Benzo(b)fluoranthene  
Concen: 20.08 ng/ul  
RT: 22.74 min Scan# 3409  
Delta R.T. 0.00 min  
Lab File: BM002150.D  
Acq: 31 Jul 2015 11:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.3  | 16.9  | 25.3  |
| 125     | 7.5   | 6.2   | 9.2   |





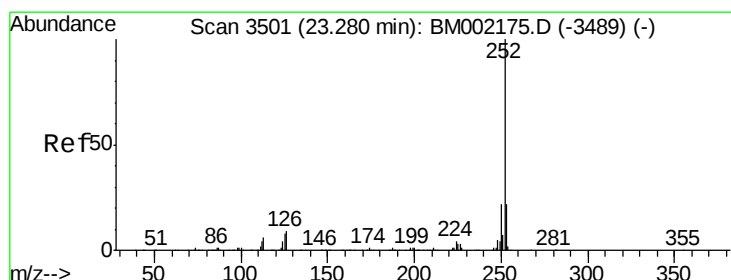
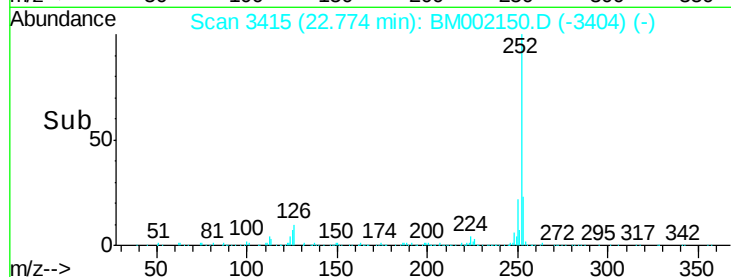
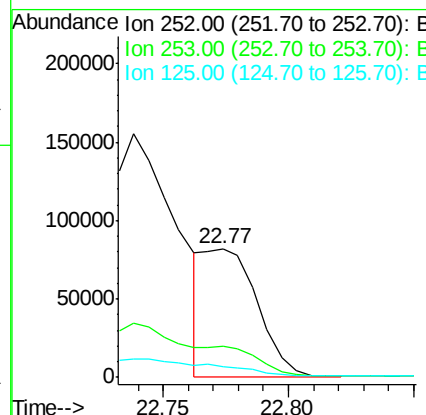
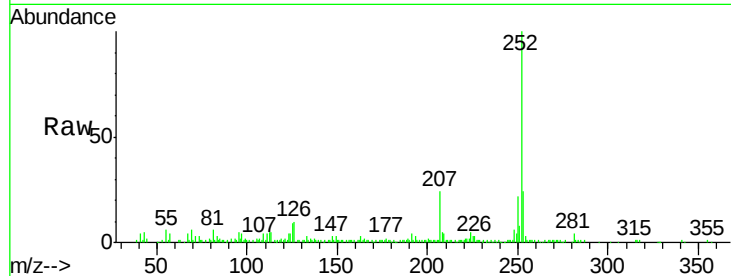
#89  
Benzo(k)fluoranthene  
Concen: 8.35 ng/ul m  
RT: 22.77 min Scan# 3415  
Delta R.T. -0.01 min  
Lab File: BM002150.D  
Acq: 31 Jul 2015 11:22

Instrument :  
BNA\_M  
ClientSampleId :  
C01MODL

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 24.0  | 17.4       | 26.0  |
| 125     | 8.6   | 6.2        | 9.4   |

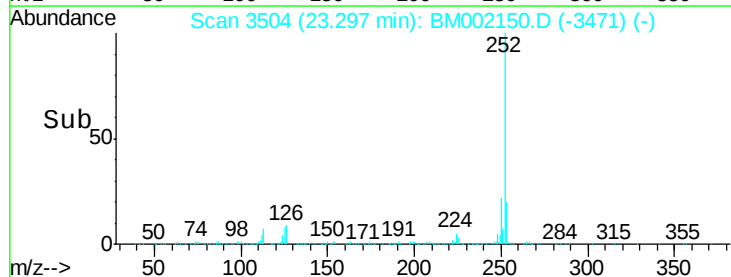
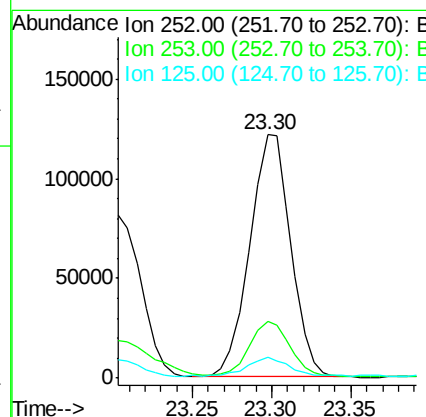
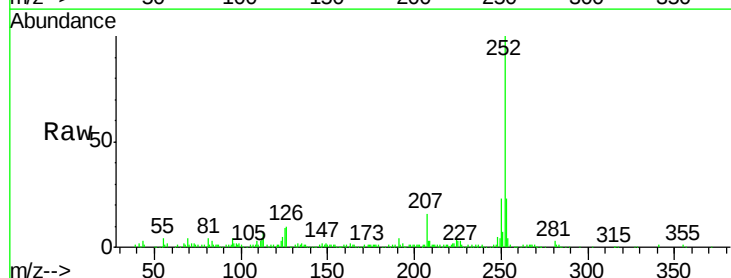
Manual Integrations  
APPROVED

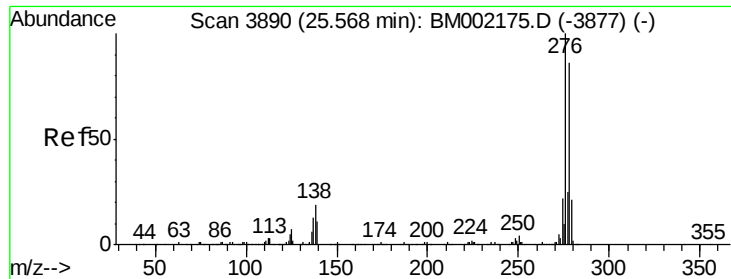
MMDadoda  
8/3/2015 3:39:27 PM



#91  
Benzo(a)pyrene  
Concen: 14.96 ng/ul  
RT: 23.30 min Scan# 3504  
Delta R.T. -0.01 min  
Lab File: BM002150.D  
Acq: 31 Jul 2015 11:22

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 23.4  | 17.2       | 25.8  |
| 125     | 8.8   | 6.6        | 10.0  |





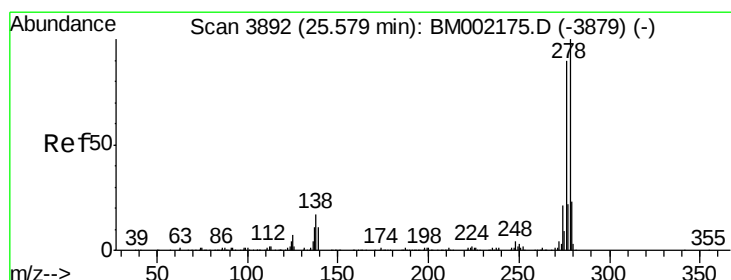
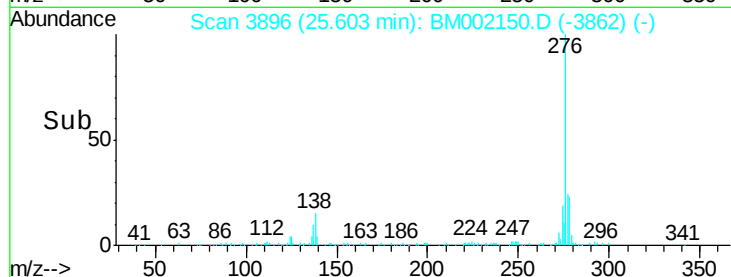
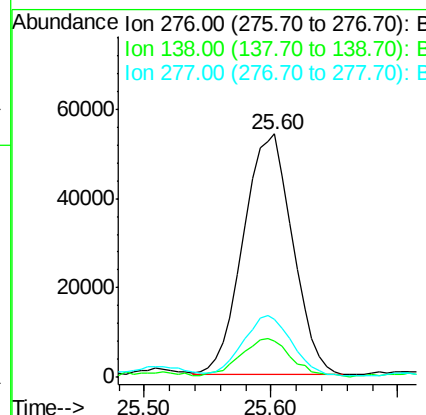
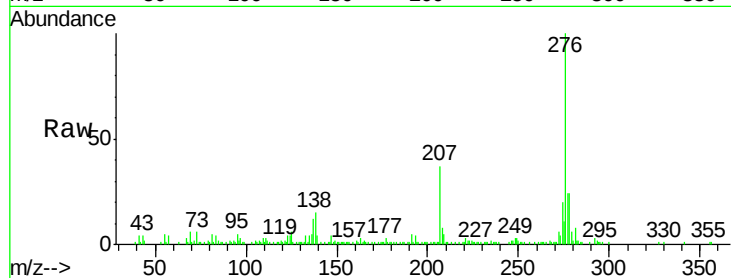
#92  
 Indeno(1,2,3-cd)pyrene  
 Concen: 8.65 ng/ul  
 RT: 25.60 min Scan# 3896  
 Delta R.T. 0.00 min  
 Lab File: BM002150.D  
 Acq: 31 Jul 2015 11:22

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C01MODL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.0  | 16.2  | 24.2# |
| 277     | 24.1  | 19.8  | 29.8  |

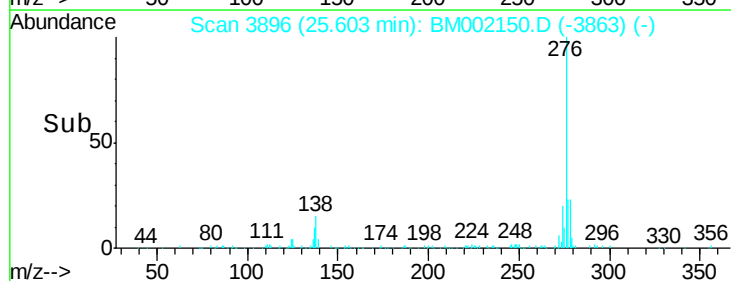
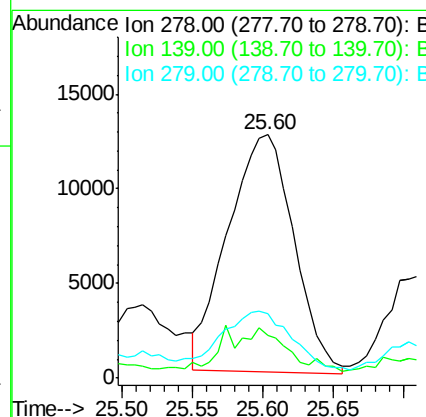
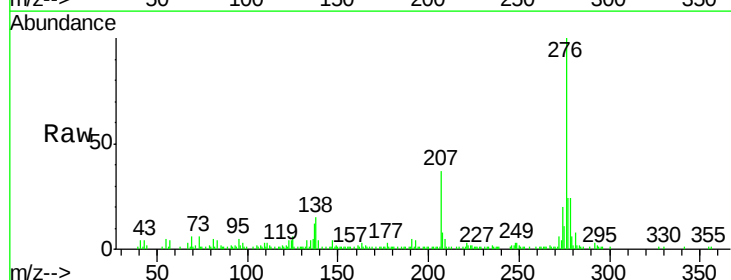
Manual Integrations  
 APPROVED

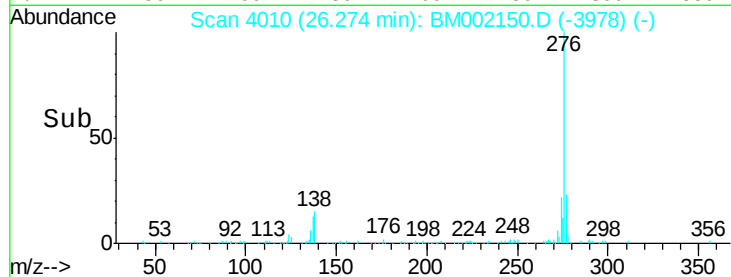
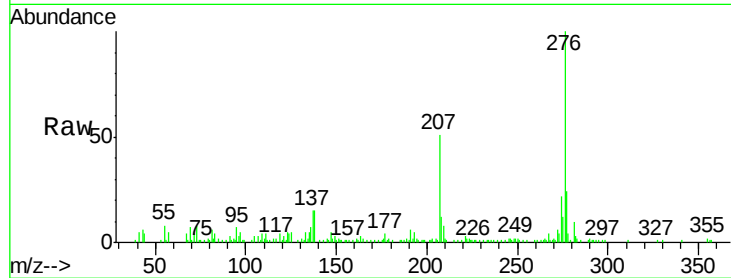
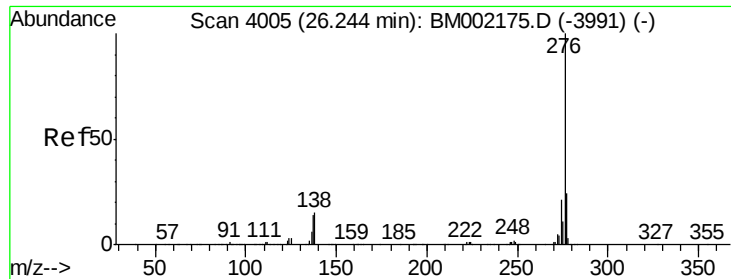
MMDadoda  
 8/3/2015 3:39:27 PM



#93  
 Dibenzo(a,h)anthracene  
 Concen: 2.84 ng/ul  
 RT: 25.60 min Scan# 3896  
 Delta R.T. -0.01 min  
 Lab File: BM002150.D  
 Acq: 31 Jul 2015 11:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 17.6  | 10.6  | 16.0# |
| 279     | 26.2  | 18.5  | 27.7  |





#94  
Benzo(a,h,i)perylene  
Concen: 8.79 ng/ul  
RT: 26.27 min Scan# 4010  
Delta R.T. -0.01 min  
Lab File: BM002150.D  
Acq: 31 Jul 2015 11:22

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 138     | 15.2  | 13.8       | 20.6  |
| 277     | 24.1  | 18.2       | 27.2  |

Instrument :  
BNA\_M  
ClientSampleId :  
C01MODL

Manual Integrations  
APPROVED

MMDadoda  
8/3/2015 3:39:27 PM

