

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042516\  
 Data File : BM005063.D  
 Acq On : 26 Apr 2016 01:55  
 Operator : UM/SJ  
 Sample : H2584-07  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampled :  
 BC7P9

Manual Integrations  
 APPROVED

sohil  
 4/26/2016 6:00:16 PM

Quant Time: Apr 26 05:14:01 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM042516.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Apr 26 00:45:11 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.80  | 152  | 26898    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.59 | 136  | 157277   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.44 | 164  | 122836   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.19 | 188  | 303080   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.37 | 240  | 351407   | 20.00 | ng/ul | -0.01    |
| 83) Perylene-d12          | 23.66 | 264  | 313470   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.30  | 96  | 1868   | 3.53  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.97  | 99  | 42596  | 19.14 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.13  | 67  | 88938  | 70.26 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.33  | 132 | 111245 | 63.19 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.50  | 113 | 81485  | 43.20 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.96  | 128 | 66035  | 60.62 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.67  | 143 | 78351  | 64.47 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.21 | 165 | 137670 | 59.63 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.74 | 131 | 1216   | 0.45  | ng/ul | 0.01 |
| 43) Dimethylphthalate-d6       | 13.84 | 166 | 484265 | 49.92 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.13 | 160 | 570370 | 49.37 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.64 | 143 | 18556m | 10.94 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.43 | 176 | 411773 | 48.30 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.56 | 200 | 87791  | 50.93 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.29 | 188 | 642988 | 47.31 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.58 | 212 | 733467 | 45.85 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.51 | 264 | 676654 | 48.18 | ng/ul | 0.00 |

## Target Compounds

|                         |       |     |        |       | Ovalue    |
|-------------------------|-------|-----|--------|-------|-----------|
| 28) Naphthalene         | 10.64 | 128 | 419897 | 52.93 | ng/ul 99  |
| 34) 2-Methylnaphthalene | 12.25 | 142 | 27442  | 4.67  | ng/ul 98  |
| 49) Acenaphthene        | 14.50 | 153 | 26981  | 3.35  | ng/ul 98  |
| 53) Dibenzofuran        | 14.84 | 168 | 33396  | 2.82  | ng/ul 98  |
| 58) Fluorene            | 15.49 | 166 | 35788  | 3.89  | ng/ul 100 |
| 69) Phenanthrene        | 17.23 | 178 | 124163 | 7.70  | ng/ul 99  |
| 71) Anthracene          | 17.32 | 178 | 20559  | 1.26  | ng/ul 98  |
| 72) Carbazole           | 17.59 | 167 | 14608  | 1.05  | ng/ul# 96 |
| 74) Fluoranthene        | 19.24 | 202 | 33749  | 1.90  | ng/ul 99  |
| 77) Pyrene              | 19.61 | 202 | 20833  | 1.03  | ng/ul 97  |

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

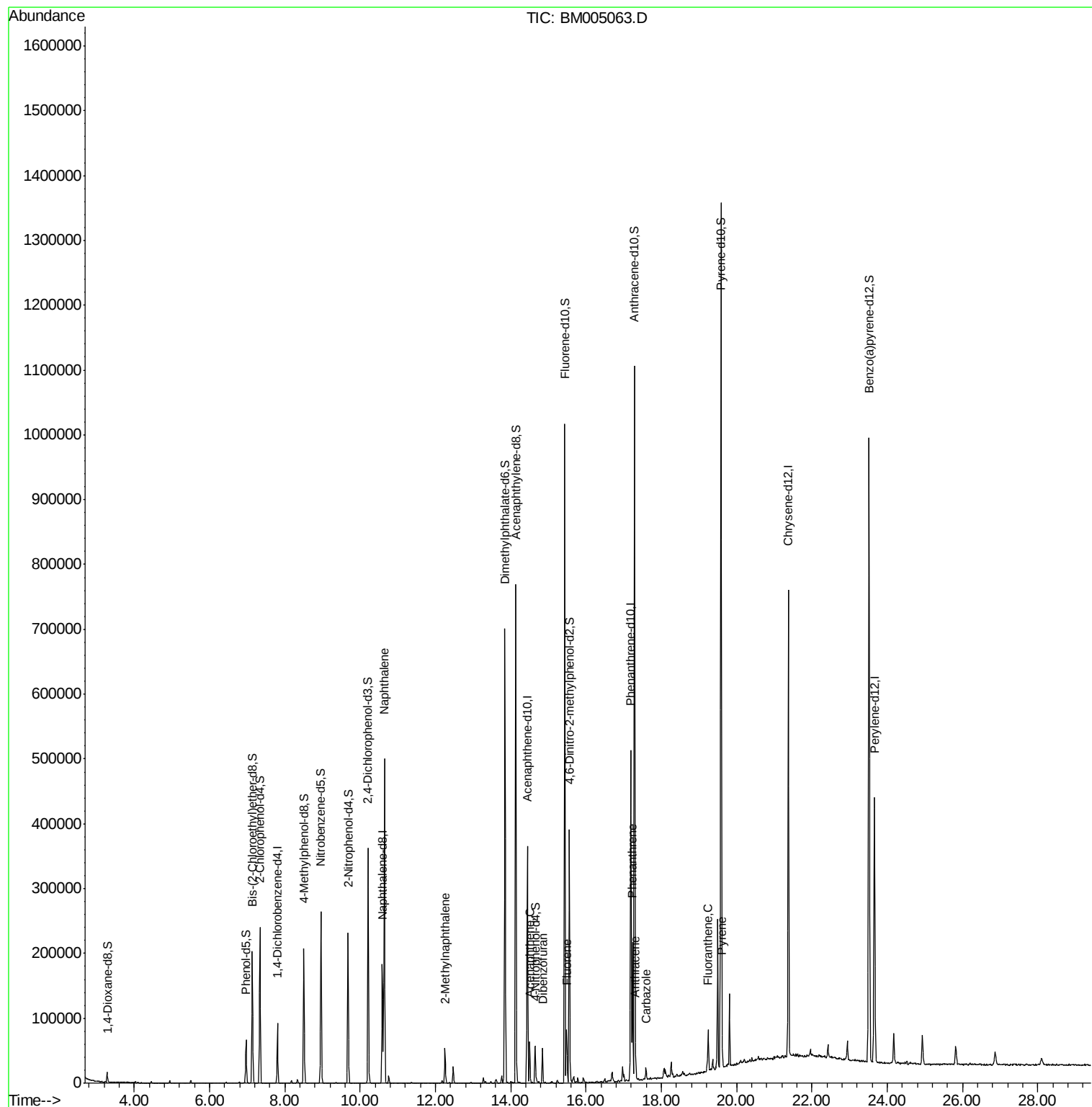
Data Path : Z:\HPCHEM1\BNA M\DATA\BM042516\  
Data File : BM005063.D  
Acq On : 26 Apr 2016 01:55  
Operator : UM/SJ  
Sample : H2584-07  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

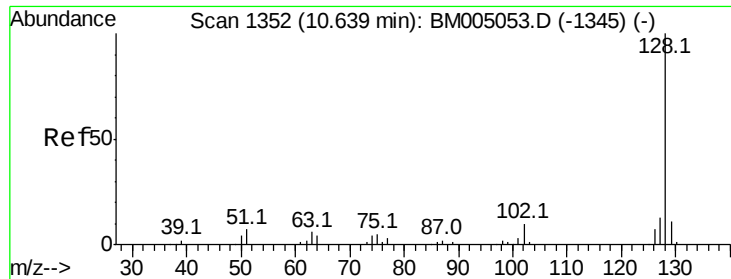
Instrument :  
BNA\_M  
ClientSampleId :  
BC7P9

Manual Integrations  
APPROVED

sohil  
4/26/2016 6:00:16 PM

Quant Time: Apr 26 05:14:01 2016  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM042516.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Apr 26 00:45:11 2016  
Response via : Initial Calibration





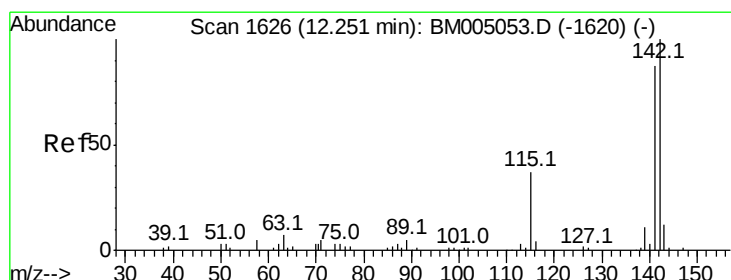
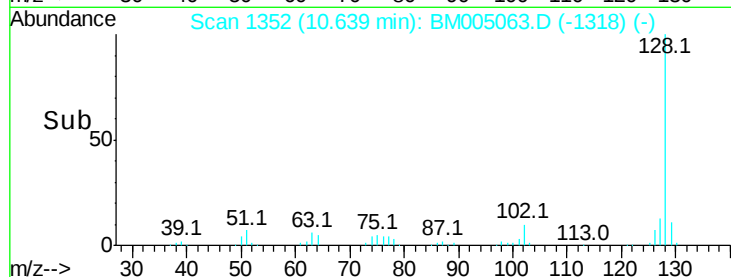
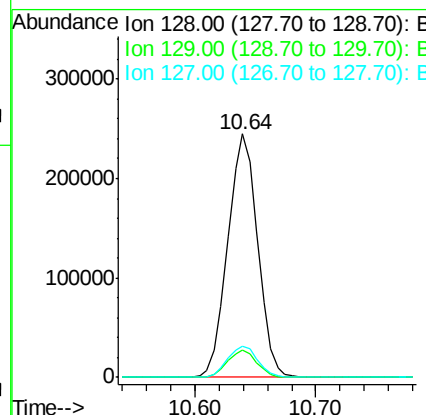
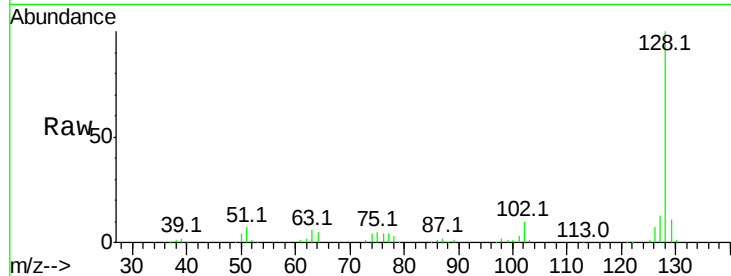
#28  
Naphthalene  
Concen: 52.93 ng/ul  
RT: 10.64 min Scan# 1352  
Delta R.T. 0.00 min  
Lab File: BM005063.D  
Acq: 26 Apr 2016 01:55

Instrument :  
BNA\_M  
ClientSampleId :  
BC7P9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.0  | 8.7   | 13.1  |
| 127     | 12.9  | 10.6  | 15.8  |

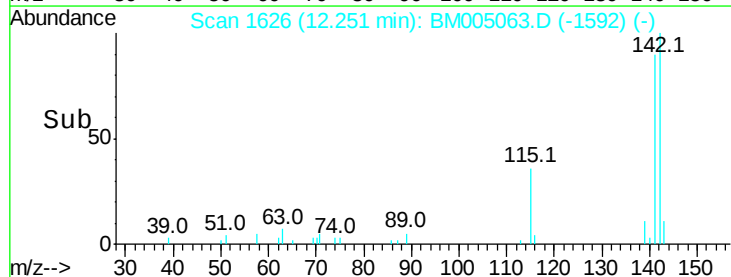
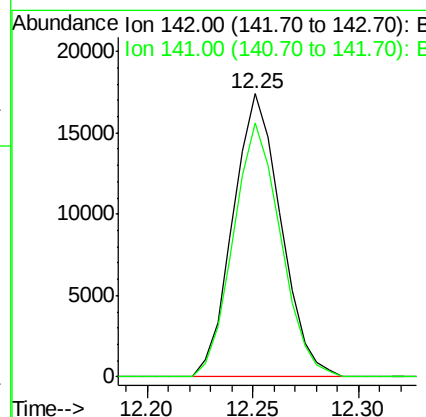
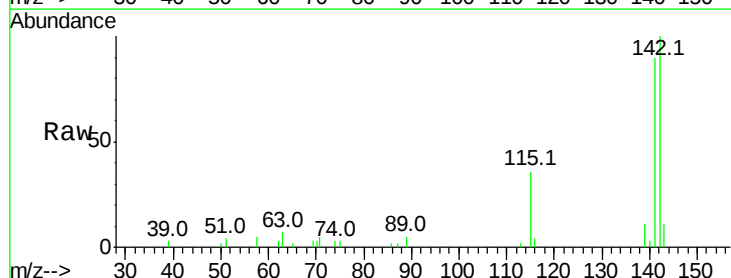
Manual Integrations  
APPROVED

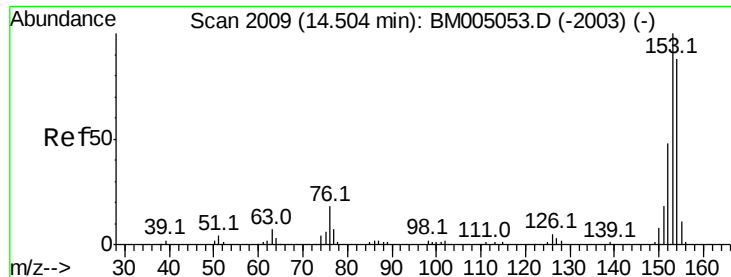
sohil  
4/26/2016 6:00:16 PM



#34  
2-Methylnaphthalene  
Concen: 4.67 ng/ul  
RT: 12.25 min Scan# 1626  
Delta R.T. 0.00 min  
Lab File: BM005063.D  
Acq: 26 Apr 2016 01:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.6  | 70.3  | 105.5 |





#49

Acenaphthene

Concen: 3.35 ng/ul

RT: 14.50 min Scan# 2009

Delta R.T. 0.00 min

Lab File: BM005063.D

Acq: 26 Apr 2016 01:55

Instrument :

BNA\_M

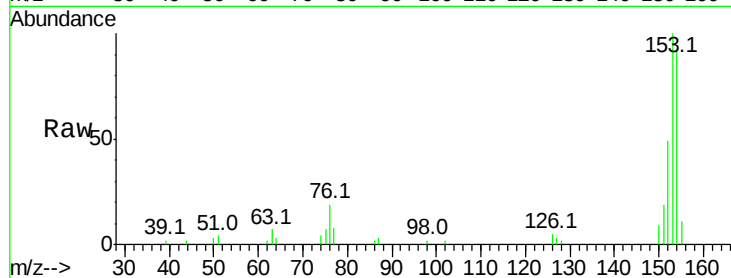
ClientSampleId :

BC7P9

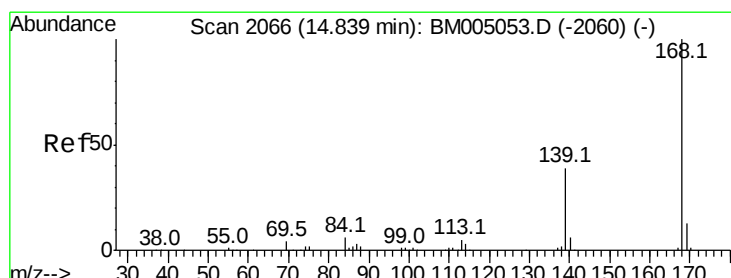
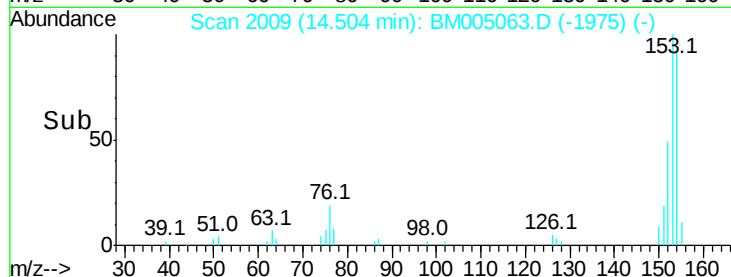
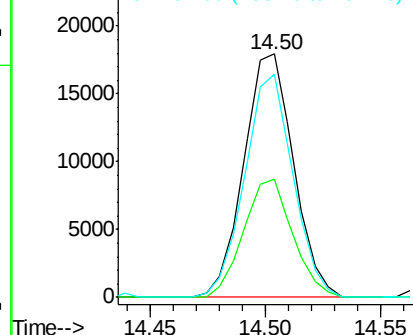
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 153   | Resp: | 26981 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 48.8  | 37.7  | 56.5  |
| 154       | 91.6  | 71.4  | 107.2 |

Manual Integrations  
APPROVED

sohil  
4/26/2016 6:00:16 PM



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



#53

Dibenzofuran

Concen: 2.82 ng/ul

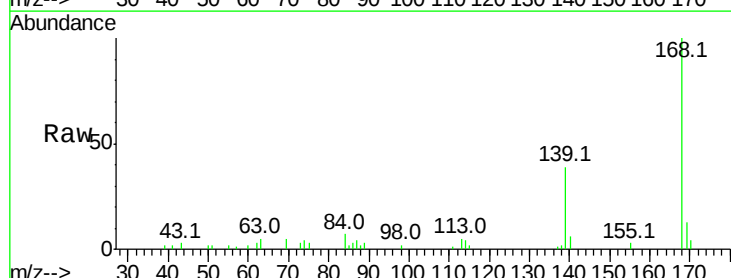
RT: 14.84 min Scan# 2066

Delta R.T. 0.00 min

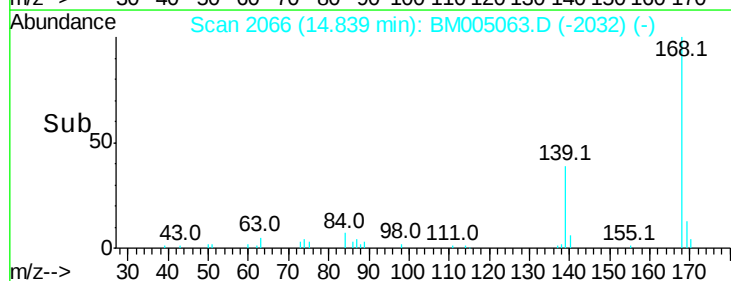
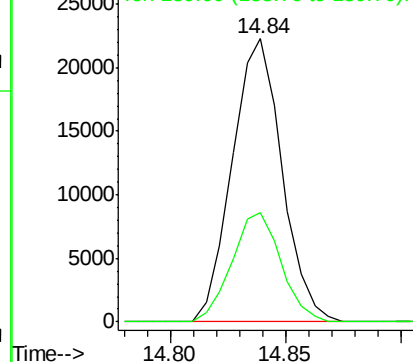
Lab File: BM005063.D

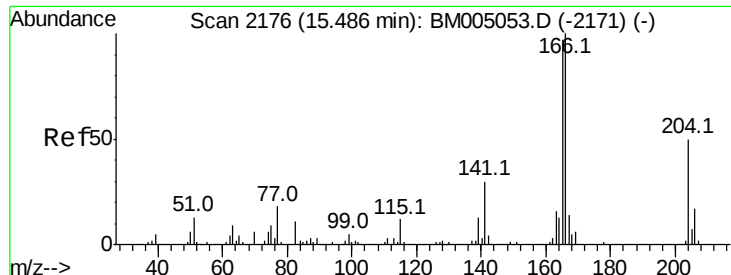
Acq: 26 Apr 2016 01:55

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 168   | Resp: | 33396 |
| Ion Ratio | Lower | Upper |       |
| 168       | 100   |       |       |
| 139       | 38.5  | 29.9  | 44.9  |



Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E





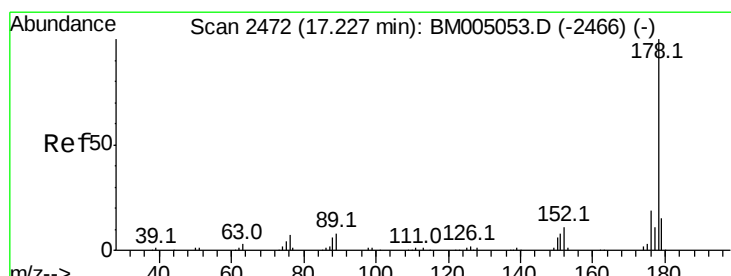
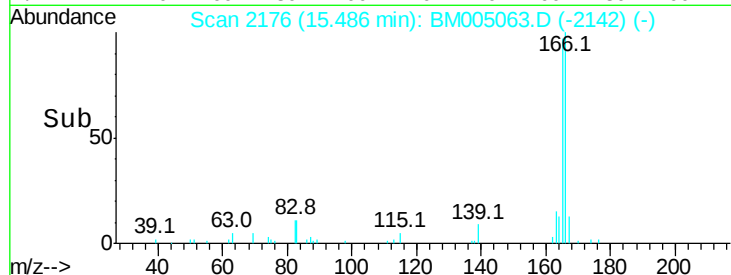
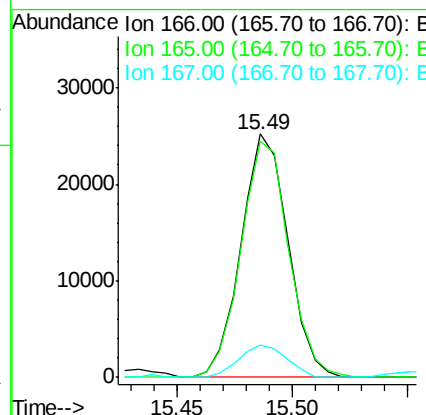
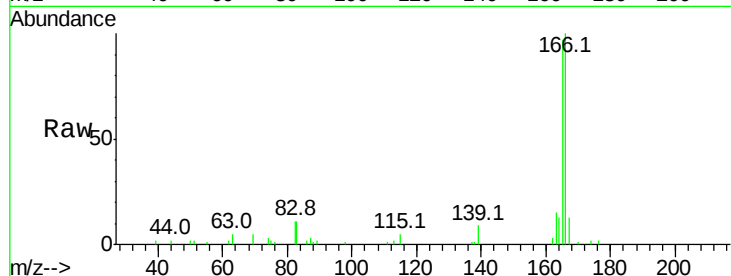
#58  
**Fluorene**  
 Concen: 3.89 ng/ul  
 RT: 15.49 min Scan# 2176  
 Delta R.T. 0.00 min  
 Lab File: BM005063.D  
 Acq: 26 Apr 2016 01:55

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BC7P9

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 35788 |       |       |
| 165     | 96.9  |       | 77.7  | 116.5 |
| 167     | 13.2  |       | 10.9  | 16.3  |

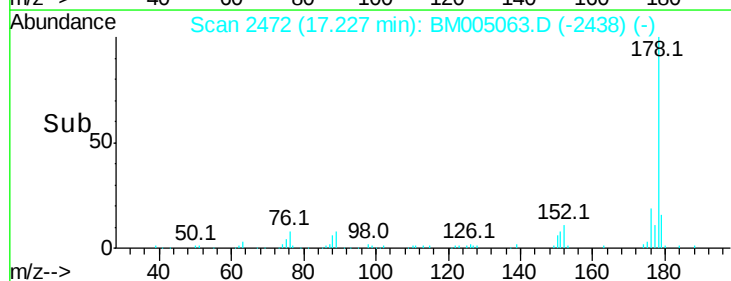
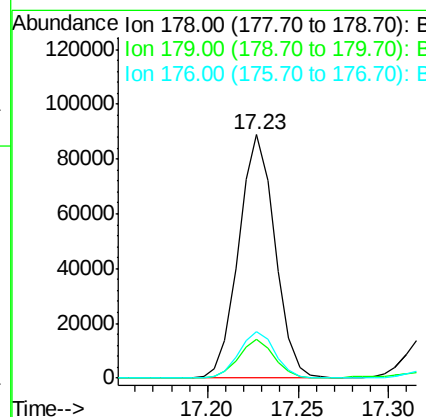
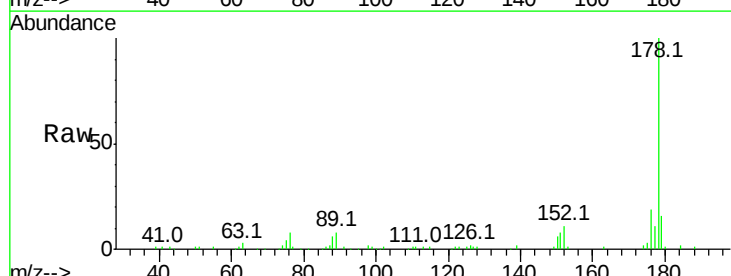
Manual Integrations  
 APPROVED

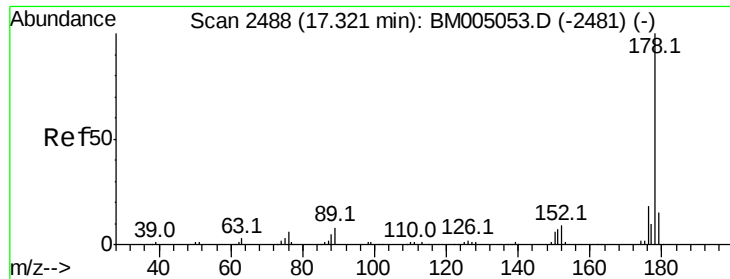
sohil  
 4/26/2016 6:00:16 PM



#69  
**Phenanthrene**  
 Concen: 7.70 ng/ul  
 RT: 17.23 min Scan# 2472  
 Delta R.T. 0.00 min  
 Lab File: BM005063.D  
 Acq: 26 Apr 2016 01:55

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 124163 |       |       |
| 179     | 15.9  |        | 11.8  | 17.8  |
| 176     | 19.1  |        | 15.2  | 22.8  |





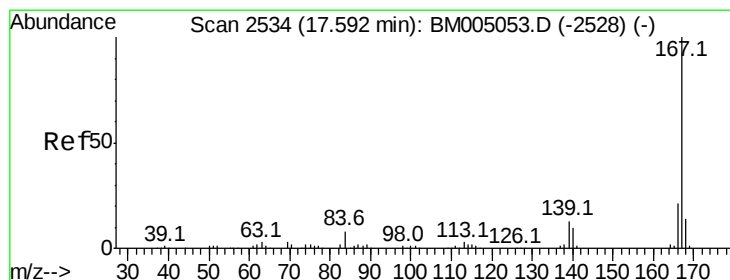
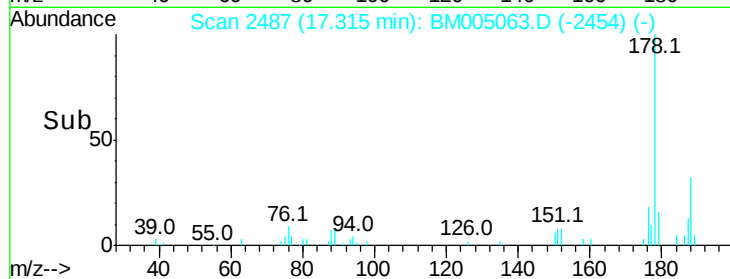
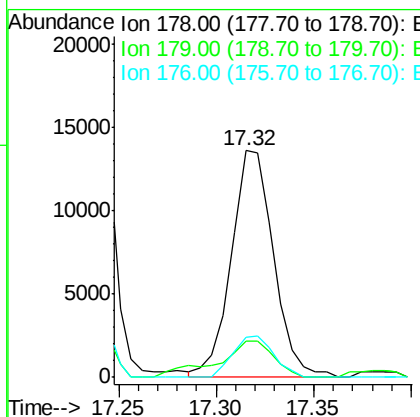
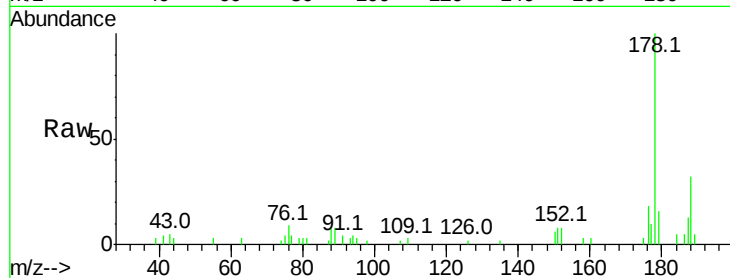
#71  
 Anthracene  
 Concen: 1.26 ng/ul  
 RT: 17.32 min Scan# 2487  
 Delta R.T. -0.01 min  
 Lab File: BM005063.D  
 Acq: 26 Apr 2016 01:55

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BC7P9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.1  | 12.1  | 18.1  |
| 176     | 17.8  | 14.6  | 22.0  |

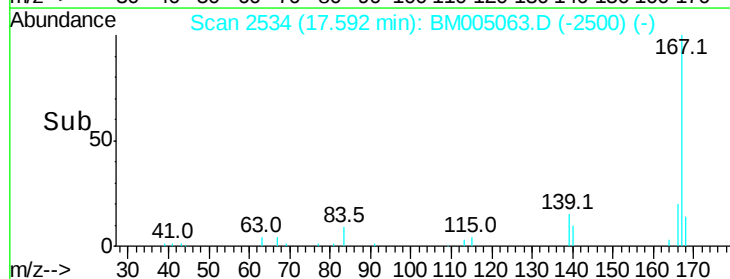
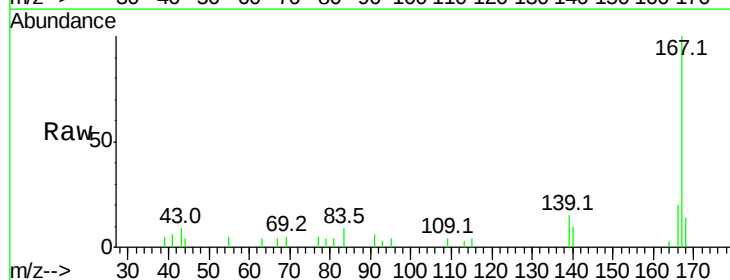
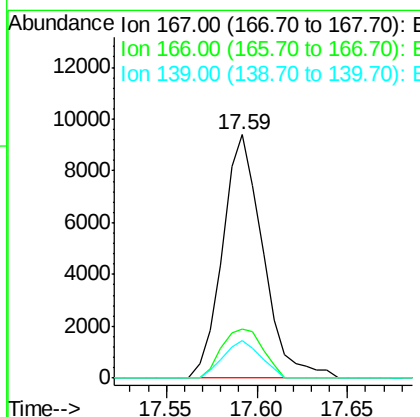
Manual Integrations  
 APPROVED

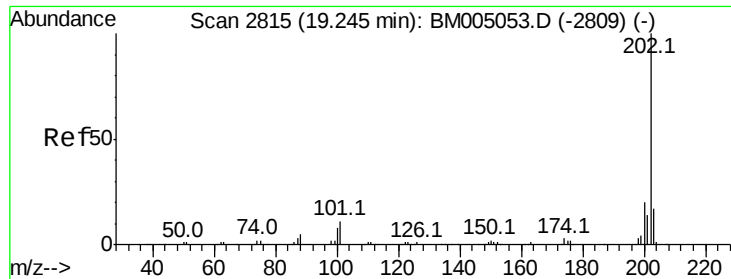
sohil  
 4/26/2016 6:00:16 PM



#72  
 Carbazole  
 Concen: 1.05 ng/ul  
 RT: 17.59 min Scan# 2534  
 Delta R.T. 0.00 min  
 Lab File: BM005063.D  
 Acq: 26 Apr 2016 01:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 20.0  | 16.6  | 25.0  |
| 139     | 15.4  | 10.2  | 15.4# |





#74

Fluoranthene

Concen: 1.90 ng/ul

RT: 19.24 min Scan# 2815

Delta R.T. 0.00 min

Lab File: BM005063.D

Acq: 26 Apr 2016 01:55

Instrument :

BNA\_M

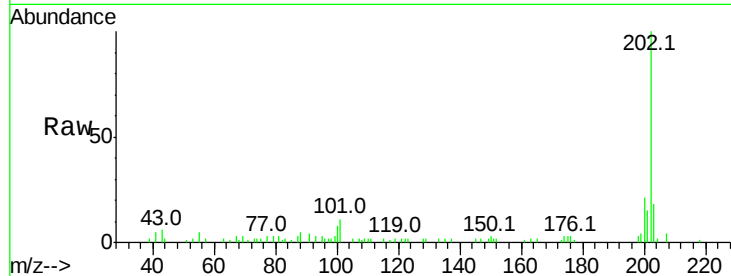
ClientSampleId :

BC7P9

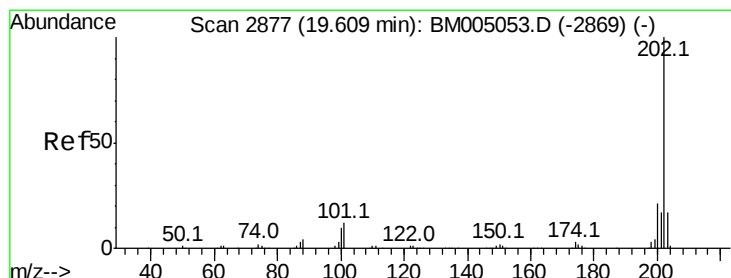
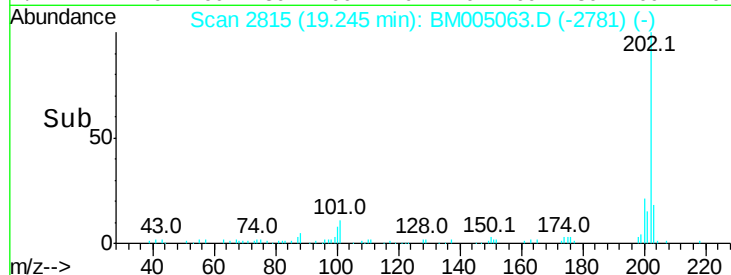
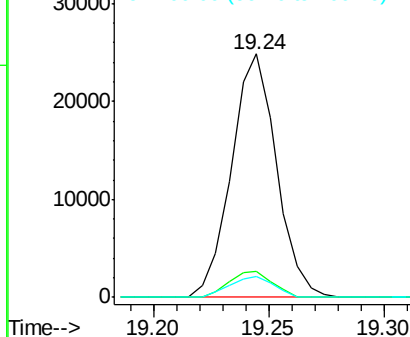
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 33749 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 10.6  | 9.0   | 13.4  |
| 100       | 8.3   | 6.6   | 10.0  |

Manual Integrations  
APPROVED

sohil  
4/26/2016 6:00:16 PM



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B



#77

Pyrene

Concen: 1.03 ng/ul

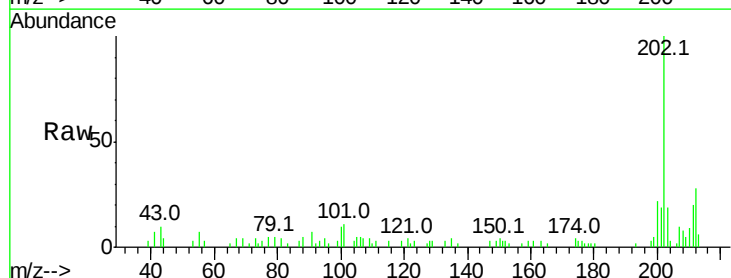
RT: 19.61 min Scan# 2877

Delta R.T. 0.00 min

Lab File: BM005063.D

Acq: 26 Apr 2016 01:55

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 20833 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 11.4  | 10.5  | 15.7  |
| 100       | 9.5   | 8.2   | 12.2  |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B

