

Data Path : Z:\HPCHEM1\BNA G\DATA\BG012417\  
 Data File : BG025622.D  
 Acq On : 25 Jan 2017 00:27  
 Operator : UM/SJ  
 Sample : I1316-08  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BDP17

Manual Integrations  
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mohammad  
 1/25/2017 3:48:03 PM

Quant Time: Jan 25 03:21:12 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG011817.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jan 25 02:29:56 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.18  | 152  | 70668    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.00 | 136  | 332802   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.81 | 164  | 280986   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.55 | 188  | 632925   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.85 | 240  | 738662   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.24 | 264  | 770294   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.51  | 96  | 5845    | 4.14  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.34  | 99  | 158770  | 26.21 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.49  | 67  | 118454  | 30.28 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.71  | 132 | 115585  | 27.06 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.89  | 113 | 137301  | 26.67 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.36  | 128 | 62420   | 26.46 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.09 | 143 | 78954   | 28.05 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.64 | 165 | 139739  | 25.16 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.15 | 131 | 153960  | 24.80 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.20 | 166 | 594612  | 29.97 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.51 | 160 | 661963  | 30.89 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.04 | 143 | 79747m  | 29.33 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.80 | 176 | 548972  | 29.35 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.94 | 200 | 110245  | 28.24 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.65 | 188 | 837413  | 31.07 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.93 | 212 | 1031258 | 33.55 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.00 | 264 | 1049324 | 32.41 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |         |       |        | Ovalue |
|----------------------------|-------|-----|---------|-------|--------|--------|
| 6) Phenol                  | 7.36  | 94  | 26279   | 4.13  | ng/ul# | 82     |
| 44) Dimethylphthalate      | 14.25 | 163 | 265207  | 13.59 | ng/ul# | 95     |
| 49) Acenaphthene           | 14.87 | 153 | 22288   | 1.50  | ng/ul# | 91     |
| 58) Fluorene               | 15.85 | 166 | 24249   | 1.30  | ng/ul  | 92     |
| 69) Phenanthrene           | 17.59 | 178 | 607932  | 19.76 | ng/ul  | 98     |
| 71) Anthracene             | 17.69 | 178 | 152679  | 4.94  | ng/ul  | 96     |
| 72) Carbazole              | 17.97 | 167 | 49486   | 1.93  | ng/ul# | 93     |
| 74) Fluoranthene           | 19.60 | 202 | 1516959 | 41.77 | ng/ul  | 100    |
| 77) Pyrene                 | 19.96 | 202 | 1290862 | 35.54 | ng/ul  | 99     |
| 80) Benzo(a)anthracene     | 21.82 | 228 | 902379  | 23.12 | ng/ul  | 99     |
| 82) Chrysene               | 21.89 | 228 | 762628  | 20.78 | ng/ul  | 96     |
| 85) Benzo(b)fluoranthene   | 24.15 | 252 | 1009362 | 25.32 | ng/ul  | 99     |
| 86) Benzo(k)fluoranthene   | 24.21 | 252 | 325013  | 8.69  | ng/ul  | 95     |
| 88) Benzo(a)pyrene         | 25.07 | 252 | 694495  | 18.42 | ng/ul  | 99     |
| 89) Indeno(1,2,3-cd)pyrene | 29.14 | 276 | 452586  | 9.48  | ng/ul  | 99     |
| 91) Benzo(g,h,i)perylene   | 30.36 | 276 | 409275m | 10.43 | ng/ul  |        |

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

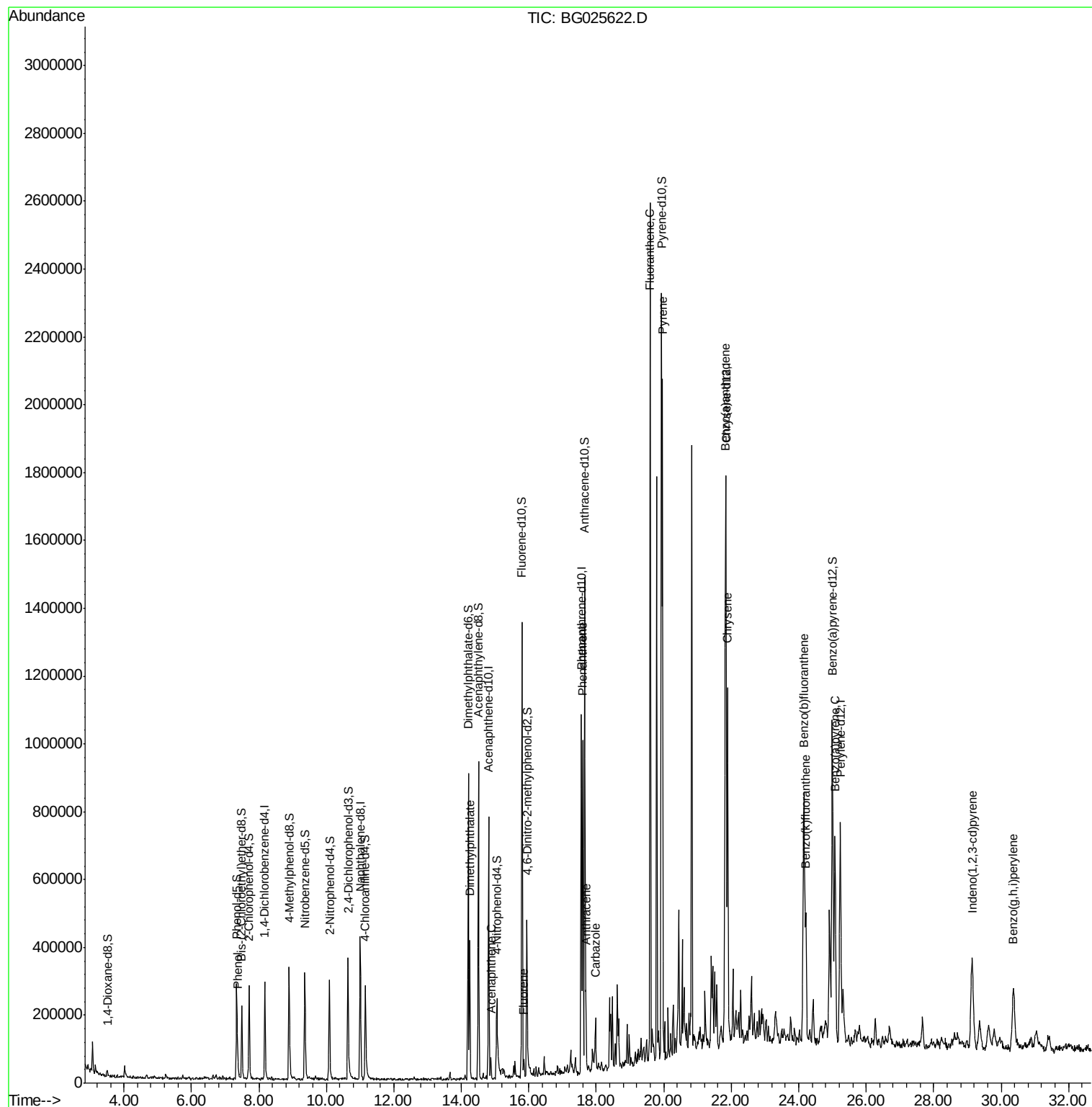
Data Path : Z:\HPCHEM1\BNA G\DATA\BG012417\  
Data File : BG025622.D  
Acq On : 25 Jan 2017 00:27  
Operator : UM/SJ  
Sample : I1316-08  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

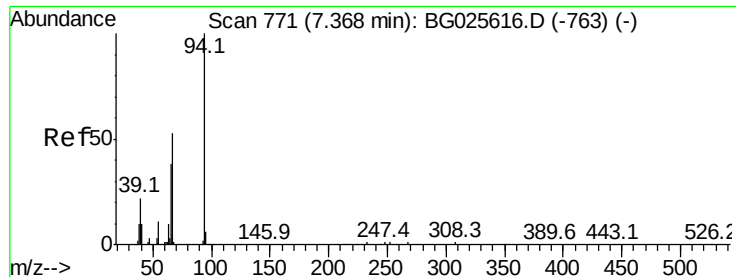
Instrument :  
BNA\_G  
ClientSampleId :  
BDP17

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Quant Time: Jan 25 03:21:12 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG011817.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Jan 25 02:29:56 2017  
Response via : Initial Calibration





#6

Phenol

Concen: 4.13 ng/ul

RT: 7.36 min Scan# 770

Delta R.T. -0.00 min

Lab File: BG025622.D

Acq: 25 Jan 2017 00:27

Instrument :

BNA\_G

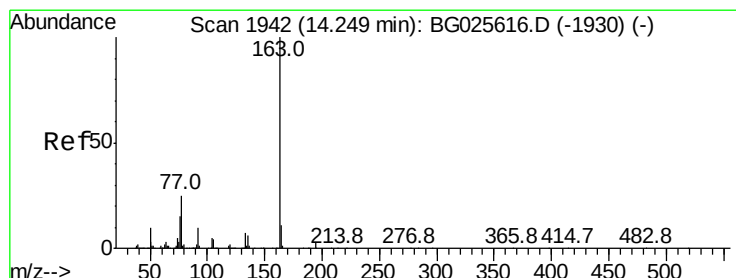
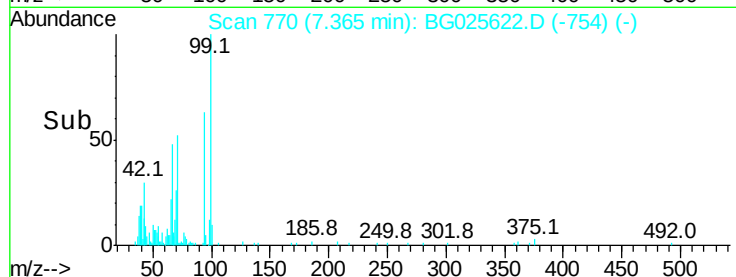
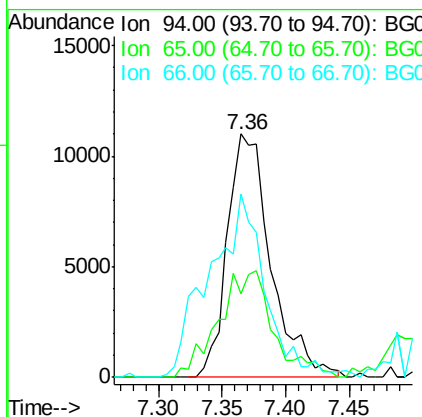
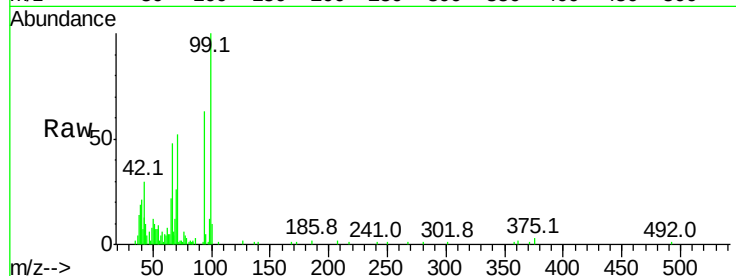
ClientSampleId :

BDP17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 94    | Resp: | 26279 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 34.5  | 26.8  | 40.2  |
| 66        | 75.6  | 44.4  | 66.6# |

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#44

Dimethylphthalate

Concen: 13.59 ng/ul

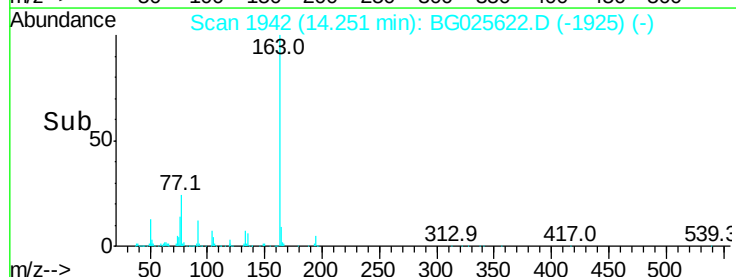
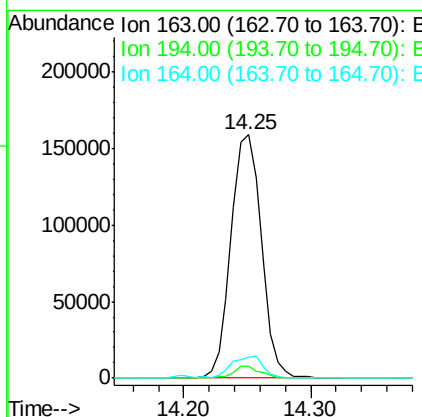
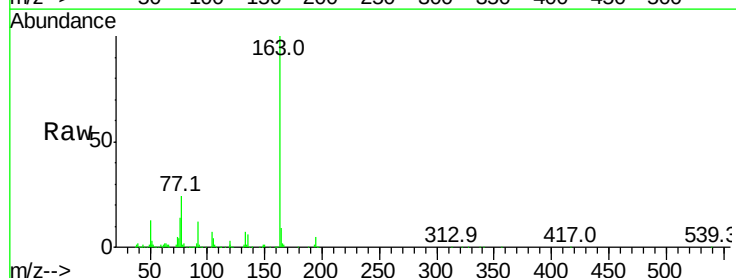
RT: 14.25 min Scan# 1942

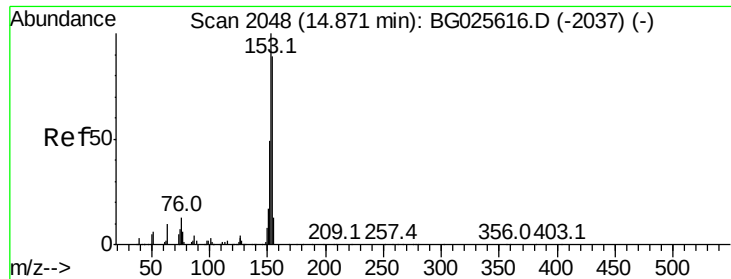
Delta R.T. 0.00 min

Lab File: BG025622.D

Acq: 25 Jan 2017 00:27

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 265207 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 5.0   | 3.4   | 5.0    |
| 164       | 8.8   | 9.0   | 13.4#  |





#49

Acenaphthene

Concen: 1.50 ng/ul

RT: 14.87 min Scan# 2047

Delta R.T. -0.00 min

Lab File: BG025622.D

Acq: 25 Jan 2017 00:27

Instrument :

BNA\_G

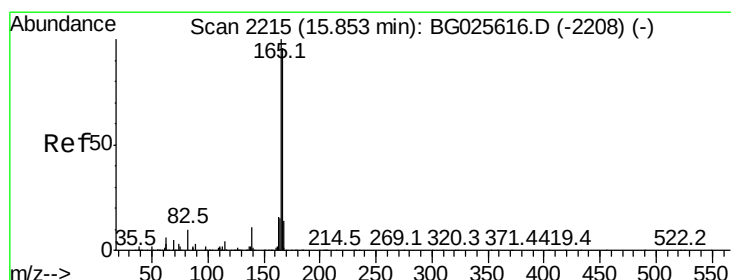
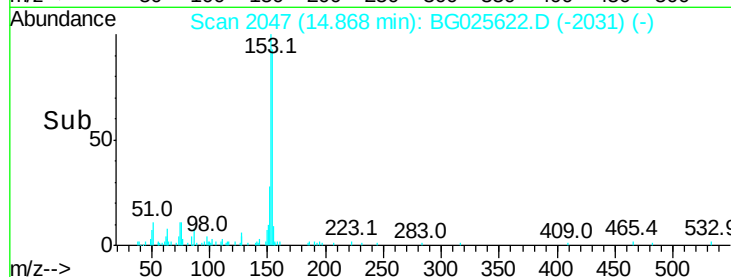
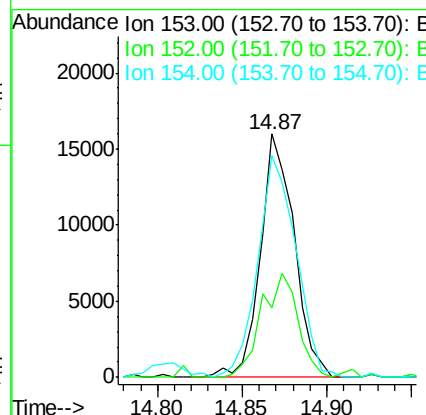
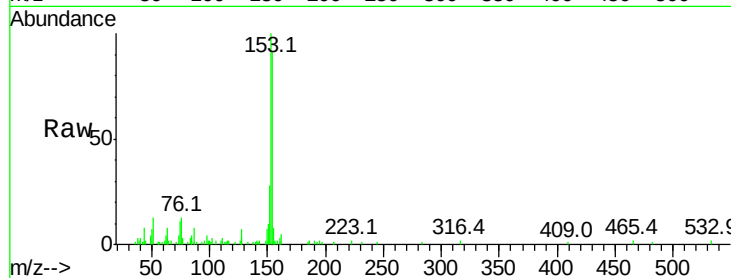
ClientSampleId :

BDP17

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 28.3  | 36.5  | 54.7# |
| 154     | 91.2  | 72.3  | 108.5 |

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#58

Fluorene

Concen: 1.30 ng/ul

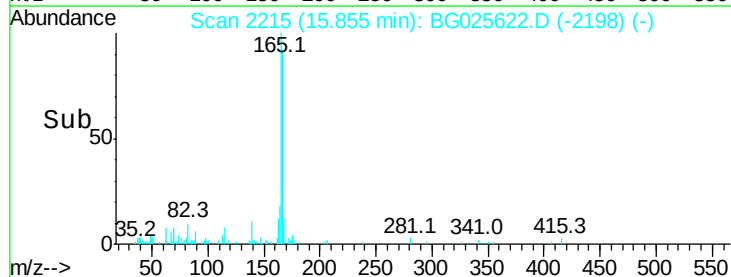
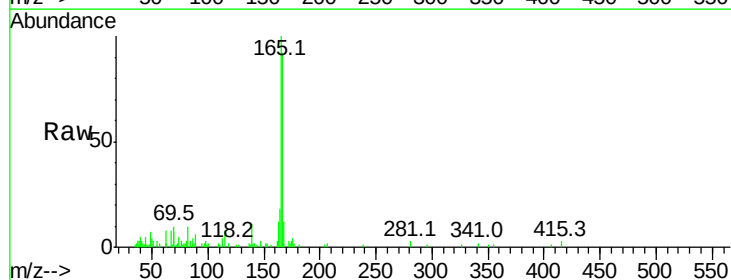
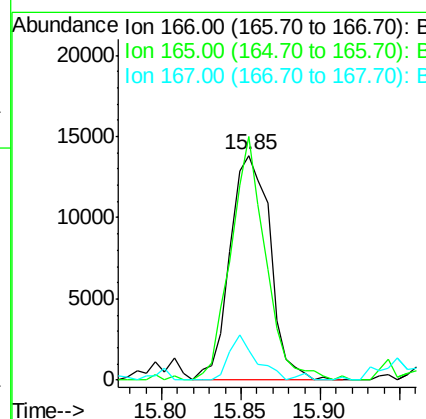
RT: 15.85 min Scan# 2215

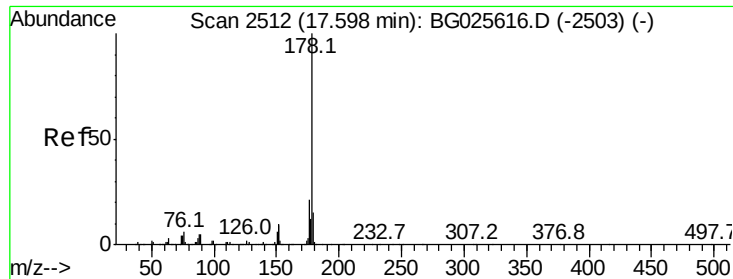
Delta R.T. 0.00 min

Lab File: BG025622.D

Acq: 25 Jan 2017 00:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 108.3 | 79.7  | 119.5 |
| 167     | 13.2  | 11.4  | 17.2  |





#69

Phenanthrene

Concen: 19.76 ng/ul

RT: 17.59 min Scan# 2511

Delta R.T. -0.00 min

Lab File: BG025622.D

Acq: 25 Jan 2017 00:27

Instrument :

BNA\_G

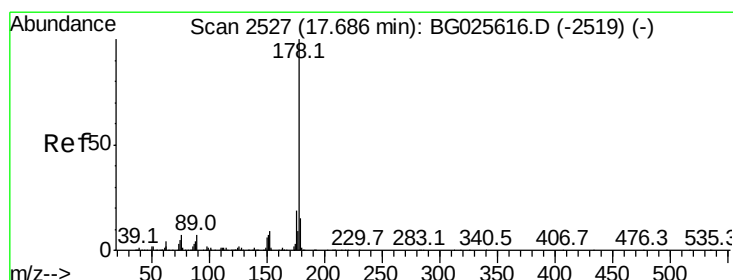
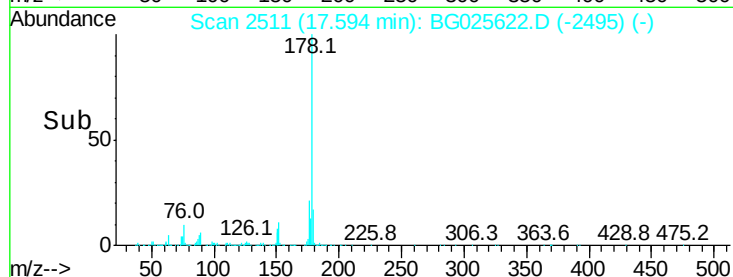
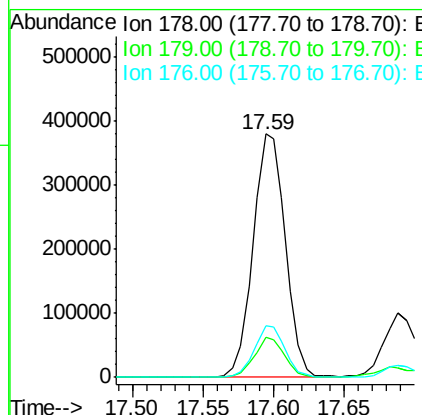
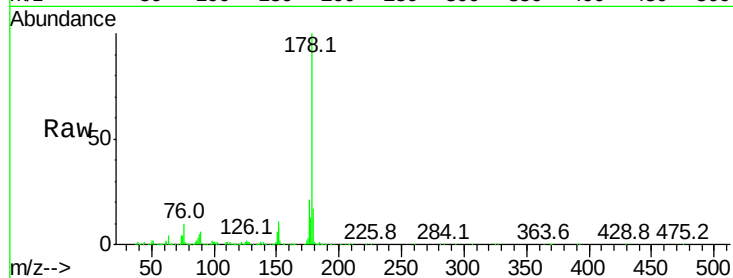
ClientSampleId :

BDP17

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 178   | Resp: | 607932 |
| Ion      | Ratio | Lower | Upper  |
| 178      | 100   |       |        |
| 179      | 16.7  | 12.4  | 18.6   |
| 176      | 21.0  | 16.5  | 24.7   |

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#71

Anthracene

Concen: 4.94 ng/ul

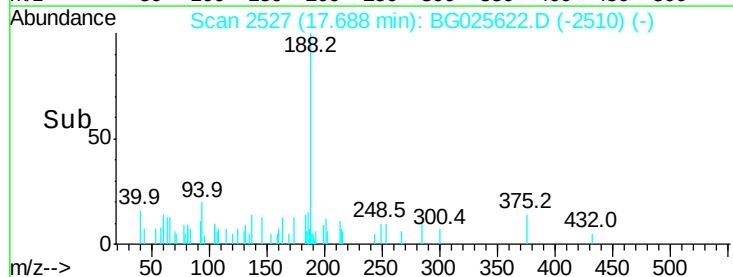
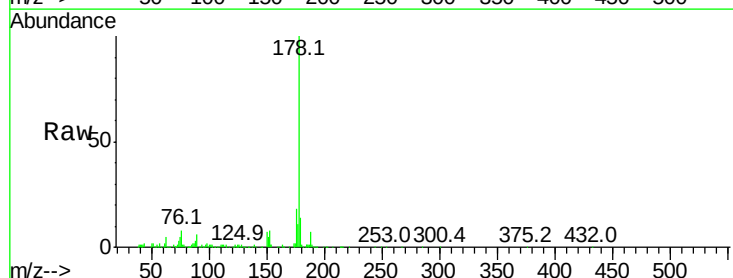
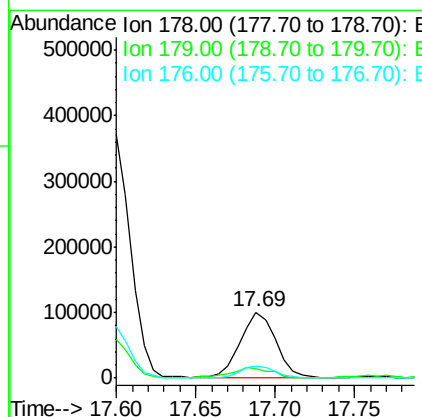
RT: 17.69 min Scan# 2527

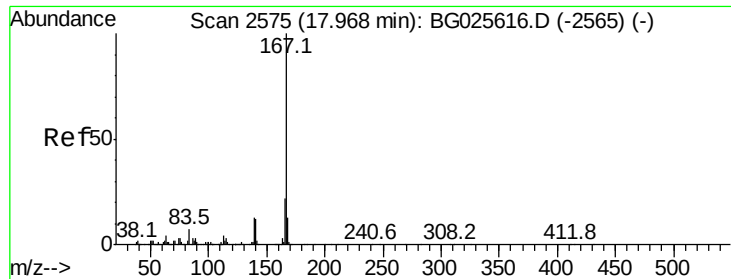
Delta R.T. 0.00 min

Lab File: BG025622.D

Acq: 25 Jan 2017 00:27

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 178   | Resp: | 152679 |
| Ion      | Ratio | Lower | Upper  |
| 178      | 100   |       |        |
| 179      | 14.2  | 12.6  | 19.0   |
| 176      | 17.8  | 15.9  | 23.9   |





#72

Carbazole

Concen: 1.93 ng/ul

RT: 17.97 min Scan# 2575

Delta R.T. 0.00 min

Lab File: BG025622.D

Acq: 25 Jan 2017 00:27

Instrument :

BNA\_G

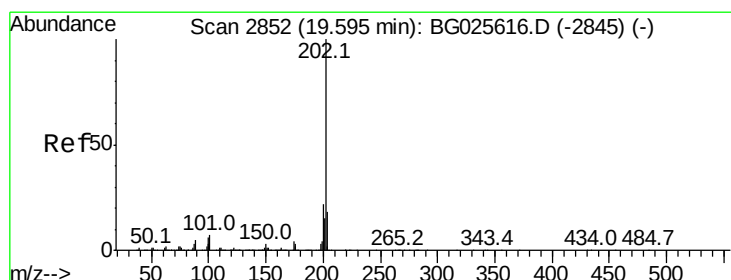
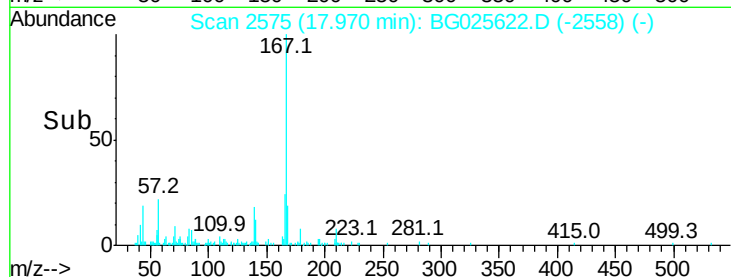
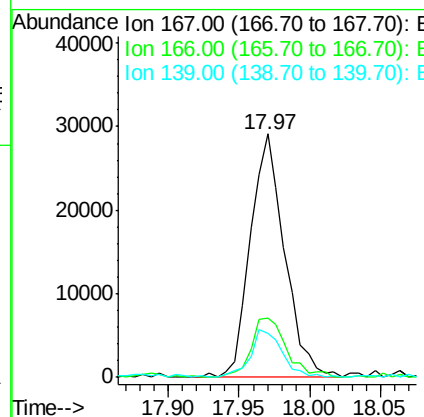
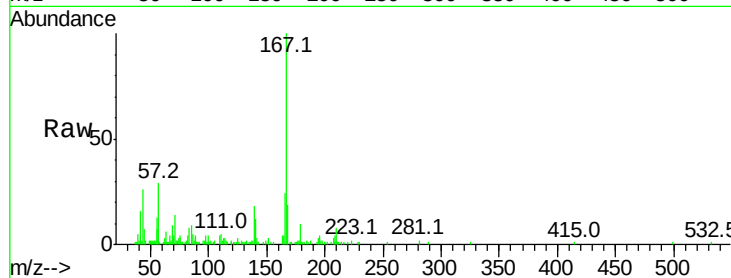
ClientSampleId :

BDP17

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 24.2  | 17.9  | 26.9  |
| 139     | 18.1  | 10.5  | 15.7  |

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#74

Fluoranthene

Concen: 41.77 ng/ul

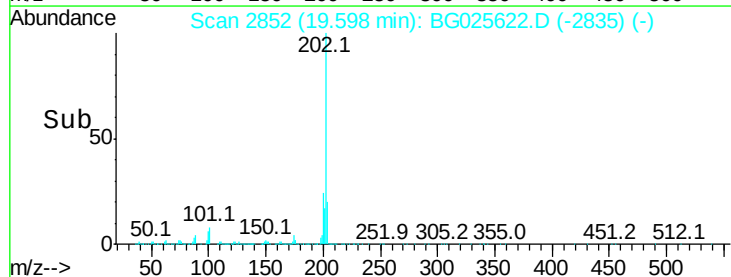
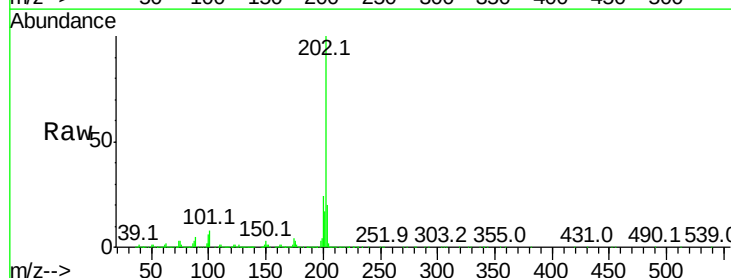
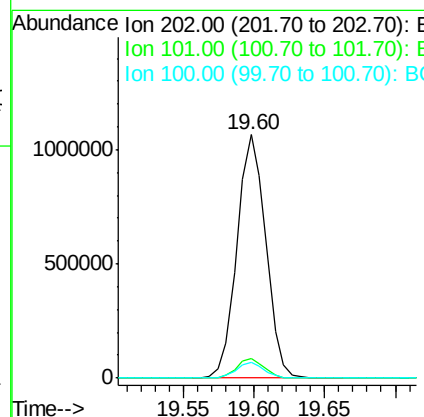
RT: 19.60 min Scan# 2852

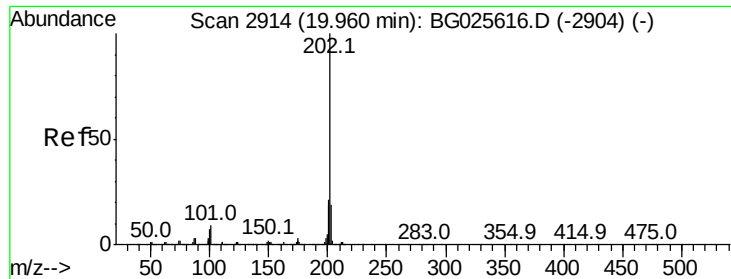
Delta R.T. 0.00 min

Lab File: BG025622.D

Acq: 25 Jan 2017 00:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.0   | 6.2   | 9.2   |
| 100     | 6.5   | 5.2   | 7.8   |





#77

Pvrene

Concen: 35.54 ng/ul

RT: 19.96 min Scan# 2914

Delta R.T. 0.00 min

Lab File: BG025622.D

Acq: 25 Jan 2017 00:27

Instrument :

BNA\_G

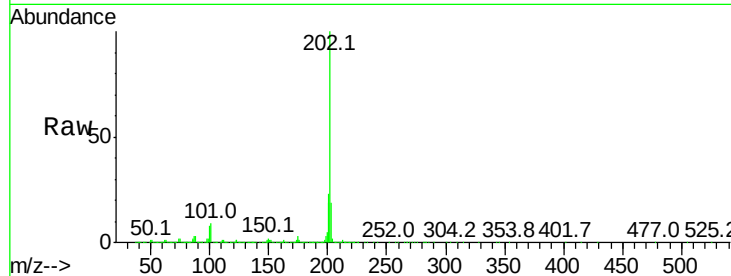
ClientSampled :

BDP17

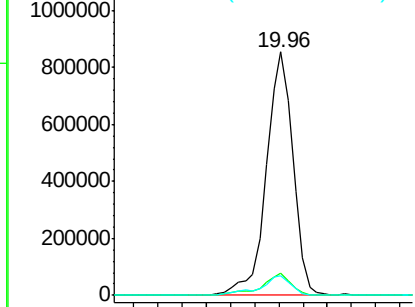
|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 202   | Resp: | 1290862 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 9.2   | 6.9   | 10.3    |
| 100       | 7.9   | 6.6   | 10.0    |

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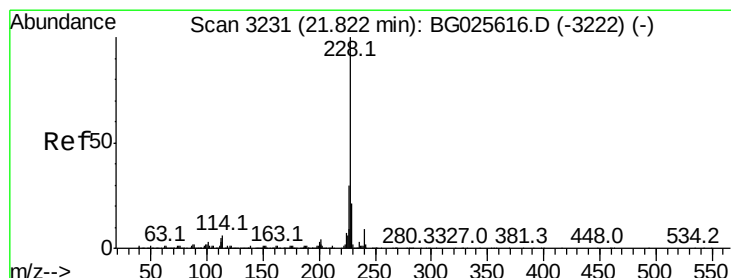
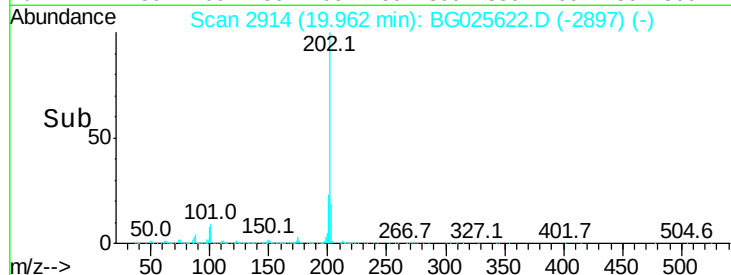
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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B



Time-->



#80

Benzo(a)anthracene

Concen: 23.12 ng/ul

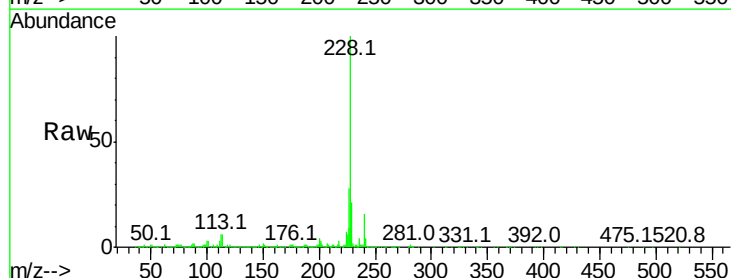
RT: 21.82 min Scan# 3231

Delta R.T. 0.00 min

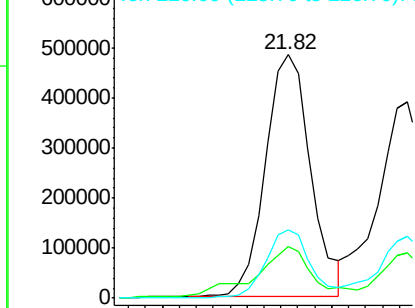
Lab File: BG025622.D

Acq: 25 Jan 2017 00:27

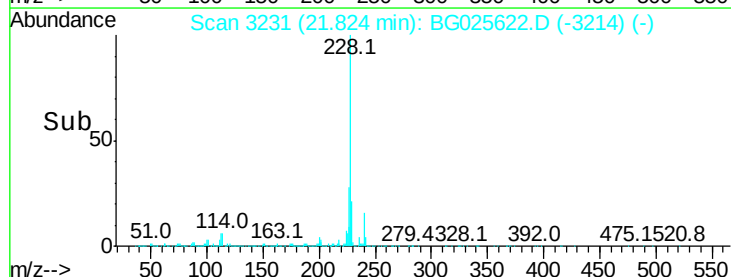
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 902379 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 21.4  | 16.3  | 24.5   |
| 226       | 27.9  | 21.9  | 32.9   |

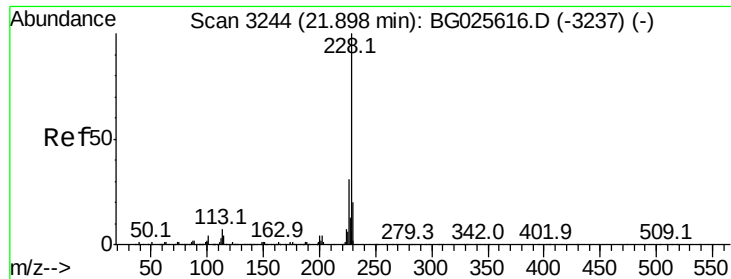


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 229.00 (228.70 to 229.70): E  
Ion 226.00 (225.70 to 226.70): E



Time-->





#82

Chrysene

Concen: 20.78 ng/ul

RT: 21.89 min Scan# 3243

Delta R.T. -0.00 min

Lab File: BG025622.D

Acq: 25 Jan 2017 00:27

Instrument :

BNA\_G

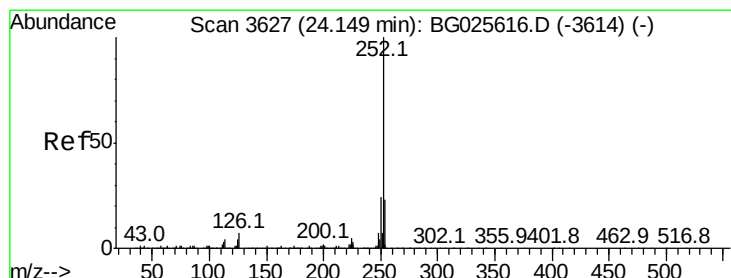
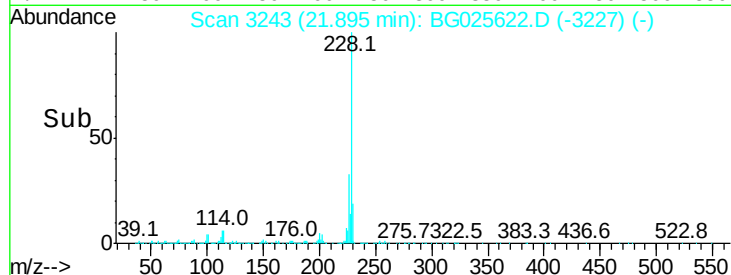
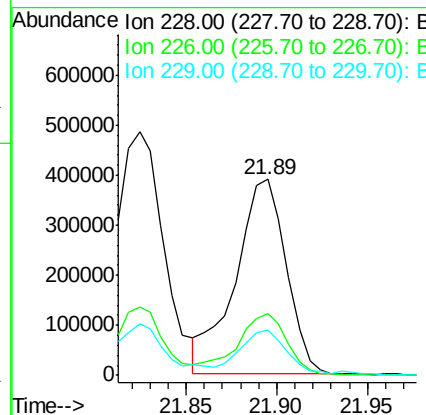
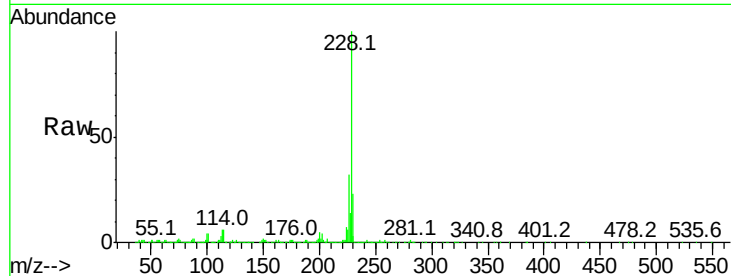
ClientSampleId :

BDP17

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 762628 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.8  | 24.0  | 36.0   |
| 229       | 22.9  | 16.9  | 25.3   |

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#85

Benzo(b)fluoranthene

Concen: 25.32 ng/ul

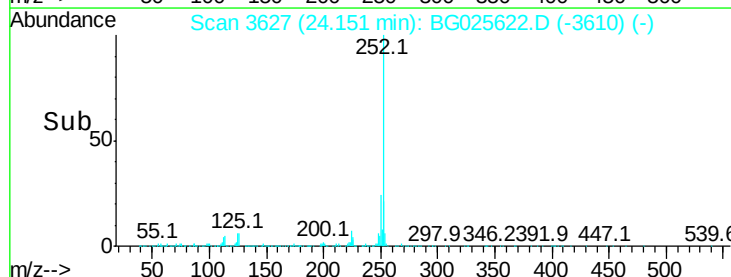
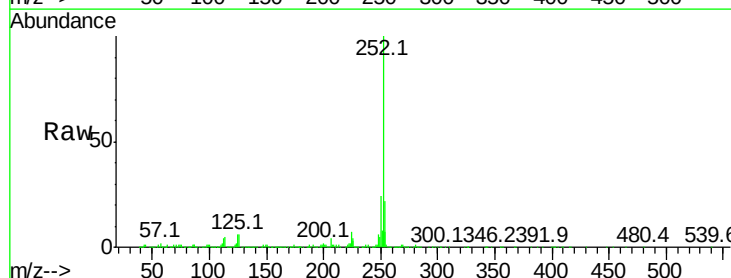
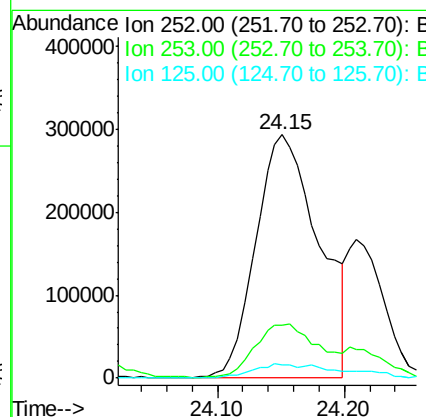
RT: 24.15 min Scan# 3627

Delta R.T. 0.00 min

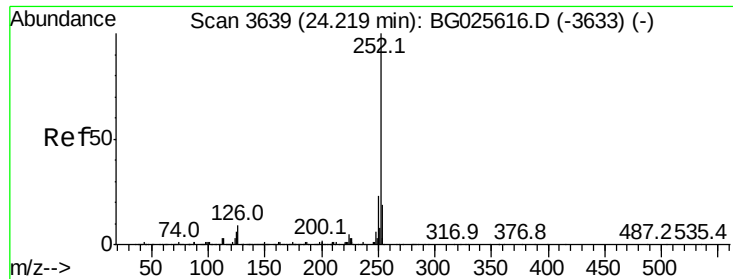
Lab File: BG025622.D

Acq: 25 Jan 2017 00:27

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 252   | Resp: | 1009362 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 253       | 21.9  | 17.7  | 26.5    |
| 125       | 5.6   | 4.0   | 6.0     |







#86

Benzo(k)fluoranthene

Concen: 8.69 ng/ul

RT: 24.21 min Scan# 3637

Delta R.T. -0.01 min

Lab File: BG025622.D

Acq: 25 Jan 2017 00:27

Instrument :

BNA\_G

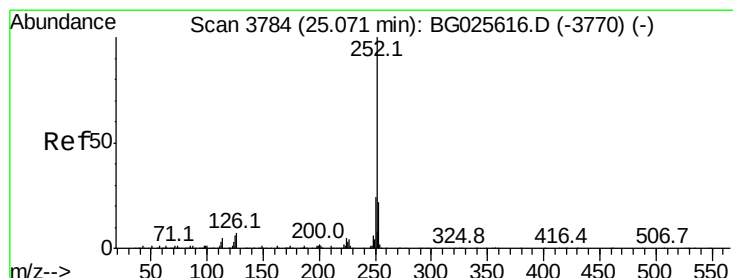
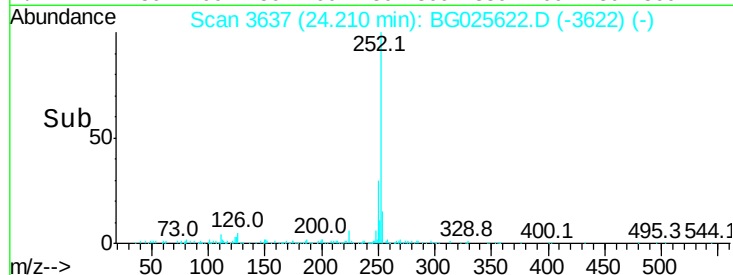
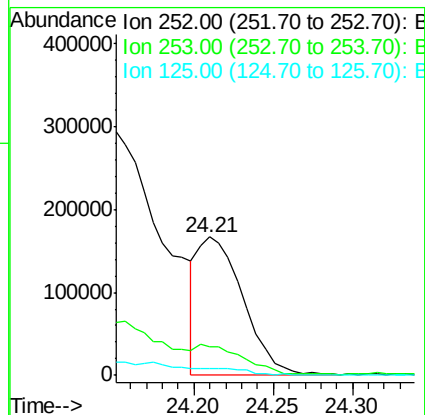
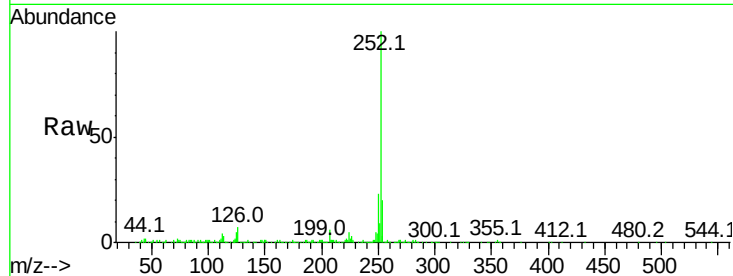
ClientSampleId :

BDP17

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 325013 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 20.2  | 18.5  | 27.7   |
| 125       | 5.2   | 4.1   | 6.1    |

Manual Integrations  
APPROVED

mohammad  
1/25/2017 3:48:03 PM



#88

Benzo(a)pyrene

Concen: 18.42 ng/ul

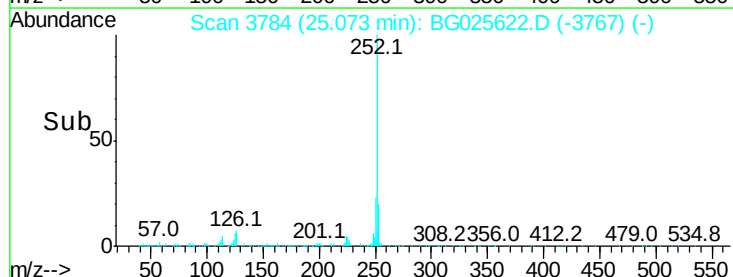
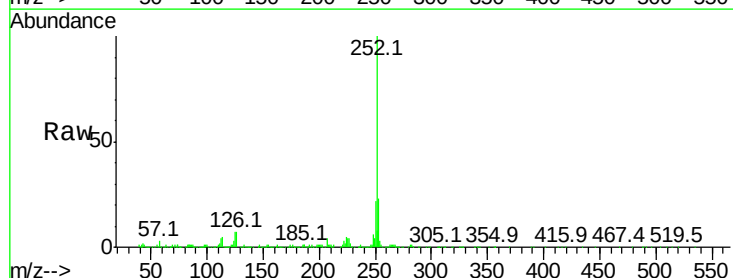
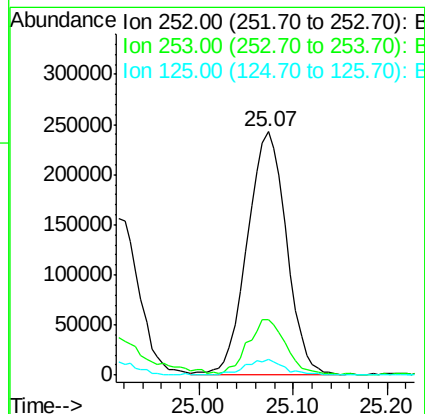
RT: 25.07 min Scan# 3784

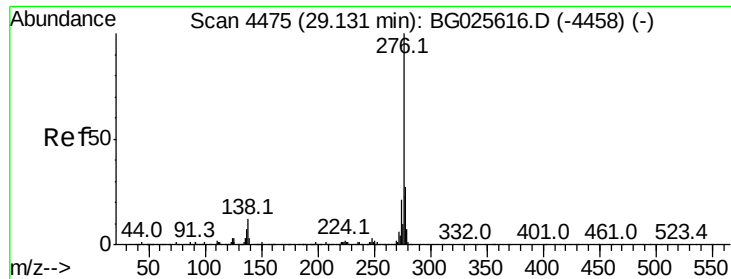
Delta R.T. 0.00 min

Lab File: BG025622.D

Acq: 25 Jan 2017 00:27

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 694495 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.7  | 17.8  | 26.6   |
| 125       | 6.5   | 5.4   | 8.0    |





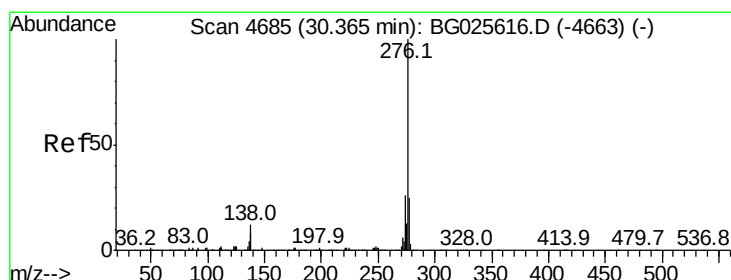
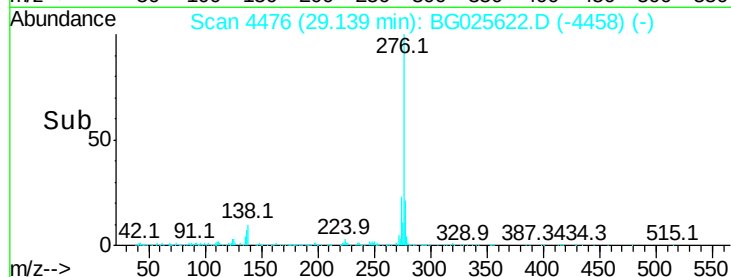
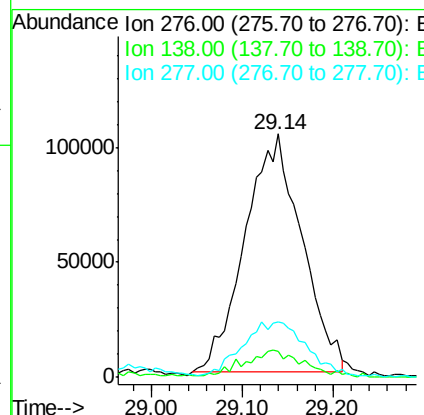
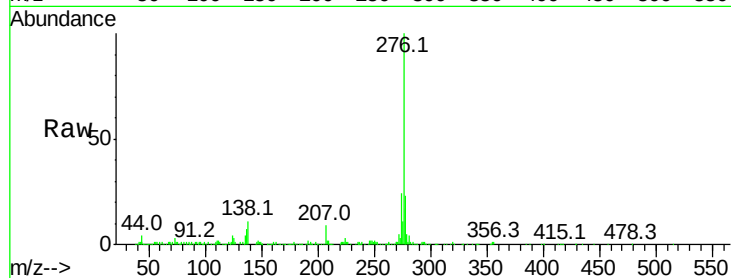
#89  
 Indeno(1,2,3-cd)pyrene  
 Concen: 9.48 ng/ul  
 RT: 29.14 min Scan# 4476  
 Delta R.T. 0.01 min  
 Lab File: BG025622.D  
 Acq: 25 Jan 2017 00:27

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BDP17

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 10.6  | 8.2   | 12.4  |
| 277     | 22.7  | 18.6  | 28.0  |

Manual Integrations  
 APPROVED

mohammad  
 1/25/2017 3:48:03 PM



#91  
 Benzo(g,h,i)perylene  
 Concen: 10.43 ng/ul m  
 RT: 30.36 min Scan# 4684  
 Delta R.T. -0.00 min  
 Lab File: BG025622.D  
 Acq: 25 Jan 2017 00:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 9.1   | 8.6   | 12.8  |
| 277     | 22.1  | 17.6  | 26.4  |

