

Data Path : Z:\HPCHEM1\BNA G\DATA\BG082817\  
 Data File : BG028533.D  
 Acq On : 29 Aug 2017 00:30  
 Operator : SJ/JU  
 Sample : I4905-15  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 B0B12

Manual Integrations  
 APPROVED

Sohil  
 8/29/2017 6:02:15 PM

Quant Time: Aug 29 05:59:23 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG080217.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Aug 29 03:57:40 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.34  | 152  | 47005    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.16 | 136  | 187068   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.95 | 164  | 116168   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.70 | 188  | 274526m  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 22.03 | 240  | 329863   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.55 | 264  | 328797   | 20.00 | ng/ul | 0.02     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.82  | 96  | 5669   | 5.62  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.49  | 99  | 150649 | 29.18 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.65  | 67  | 94906  | 29.03 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.88  | 132 | 111508 | 34.24 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 9.04  | 113 | 121674 | 28.20 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.52  | 128 | 56681m | 38.75 | ng/ul | 0.02 |
| 22) 2-Nitrophenol-d4           | 10.23 | 143 | 68308  | 42.59 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.78 | 165 | 130706 | 39.39 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.29 | 131 | 112673 | 30.50 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.34 | 166 | 401162 | 38.83 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.65 | 160 | 472933 | 40.60 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.15 | 143 | 55185  | 33.59 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.94 | 176 | 346904 | 37.42 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 16.07 | 200 | 44935m | 25.20 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.80 | 188 | 558463 | 42.42 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 20.07 | 212 | 654043 | 38.66 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.31 | 264 | 651298 | 42.31 | ng/ul | 0.03 |

## Target Compounds

|                                |       |     |        |        | Ovalue |     |
|--------------------------------|-------|-----|--------|--------|--------|-----|
| 6) Phenol                      | 7.52  | 94  | 12307  | 2.399  | ng/ul# | 91  |
| 16) 4-Methylphenol             | 9.10  | 108 | 4840   | 1.184  | ng/ul  | 92  |
| 28) Naphthalene                | 11.21 | 128 | 12665  | 1.367  | ng/ul# | 91  |
| 34) 2-Methylnaphthalene        | 12.79 | 142 | 19460  | 2.615  | ng/ul  | 83  |
| 44) Dimethylphthalate          | 14.39 | 163 | 114333 | 12.018 | ng/ul# | 95  |
| 69) Phenanthrene               | 17.74 | 178 | 16588m | 1.201  | ng/ul  |     |
| 74) Fluoranthene               | 19.75 | 202 | 72501m | 4.318  | ng/ul  |     |
| 77) Pyrene                     | 20.10 | 202 | 99978  | 5.080  | ng/ul  | 100 |
| 80) Benzo(a)anthracene         | 22.01 | 228 | 79509  | 4.172  | ng/ul  | 99  |
| 81) Bis(2-ethylhexyl)phthalate | 21.87 | 149 | 12004  | 1.145  | ng/ul# | 96  |
| 82) Chrysene                   | 22.08 | 228 | 77909  | 4.539  | ng/ul  | 95  |
| 85) Benzo(b)fluoranthene       | 24.43 | 252 | 127942 | 6.503  | ng/ul# | 99  |
| 86) Benzo(k)fluoranthene       | 24.49 | 252 | 45871m | 2.387  | ng/ul  |     |
| 88) Benzo(a)pyrene             | 25.39 | 252 | 106554 | 5.593  | ng/ul  | 99  |
| 89) Indeno(1,2,3-cd)pyrene     | 29.56 | 276 | 71446m | 3.203  | ng/ul  |     |
| 90) Dibenzo(a,h)anthracene     | 29.62 | 278 | 19415m | 1.038  | ng/ul  |     |
| 91) Benzo(g,h,i)perylene       | 30.85 | 276 | 60582m | 3.301  | ng/ul  |     |

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

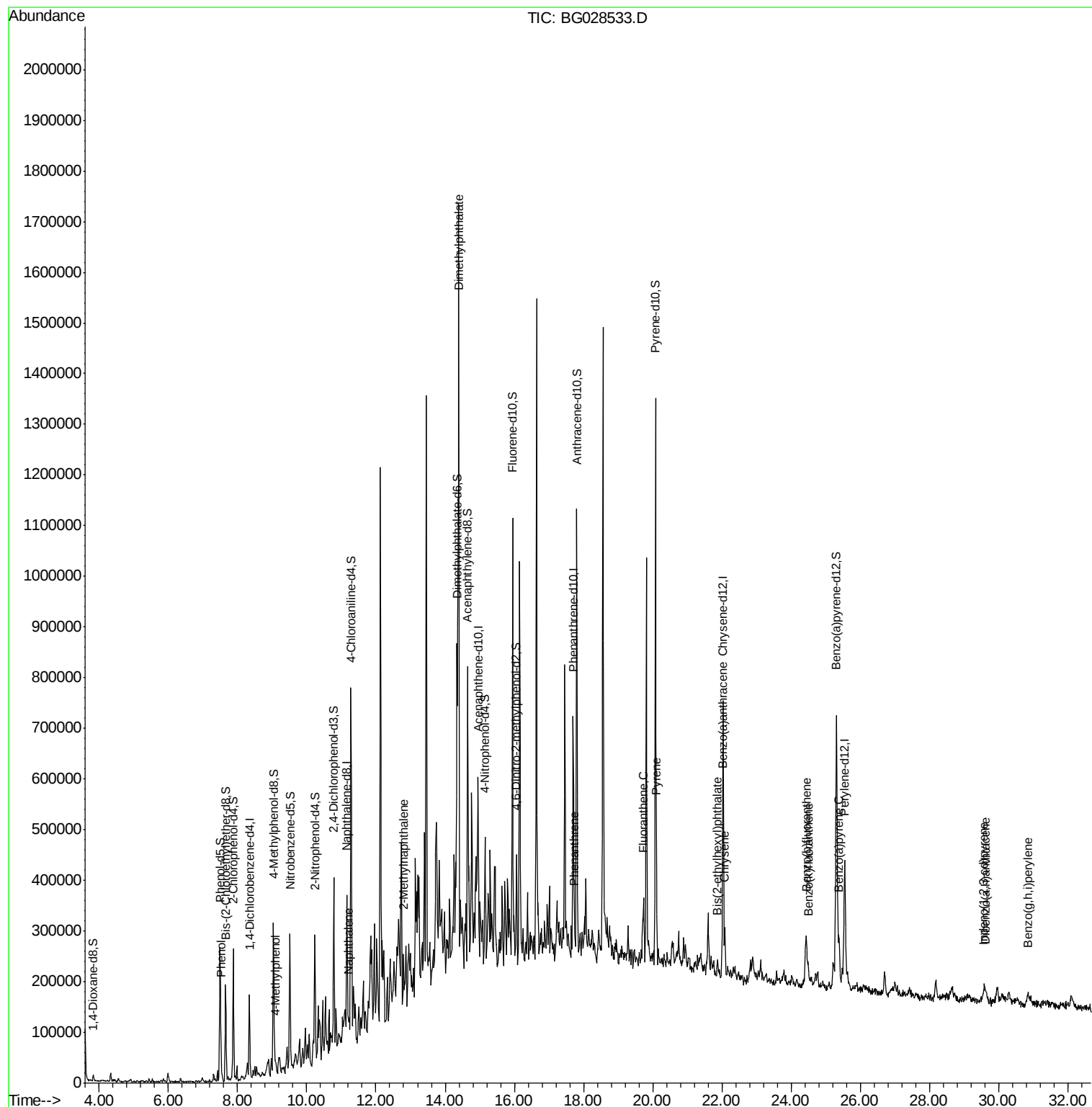
Data Path : Z:\HPCHEM1\BNA G\DATA\BG082817\  
Data File : BG028533.D  
Acq On : 29 Aug 2017 00:30  
Operator : SJ/JU  
Sample : I4905-15  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

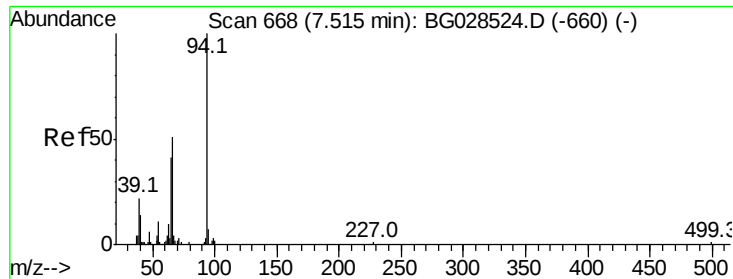
Instrument :  
BNA\_G  
ClientSampleId :  
B0B12

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Quant Time: Aug 29 05:59:23 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG080217.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Aug 29 03:57:40 2017  
Response via : Initial Calibration





#6

Phenol

Concen: 2.399 ng/ul

RT: 7.52 min Scan# 669

Delta R.T. 0.00 min

Lab File: BG028533.D

Acq: 29 Aug 2017 00:30

Instrument :

BNA\_G

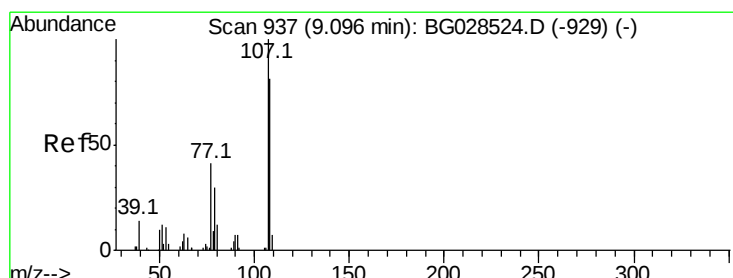
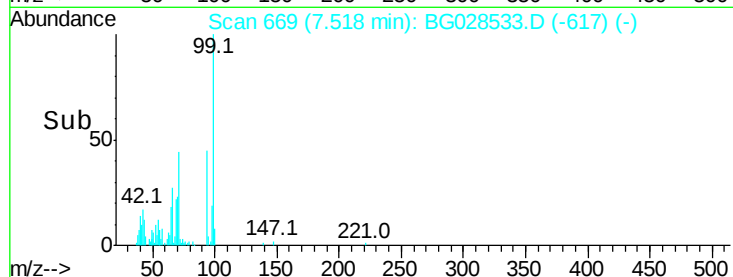
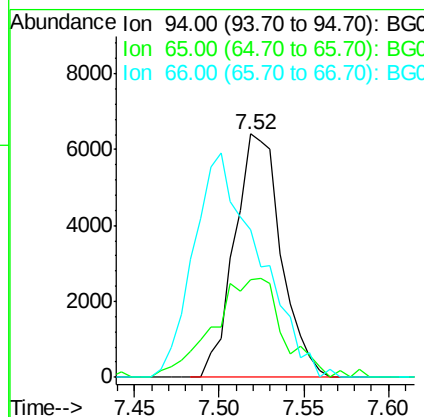
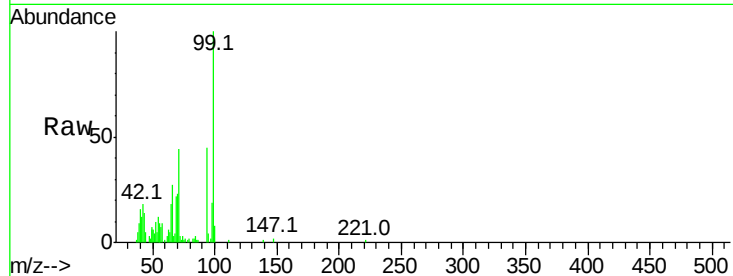
ClientSampleId :

B0B12

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 94      | 100   |       |       |
| 65      | 40.4  | 26.8  | 40.2# |
| 66      | 60.7  | 44.4  | 66.6  |

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#16

4-Methylphenol

Concen: 1.184 ng/ul

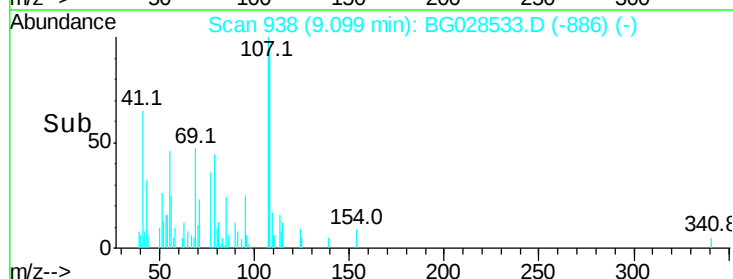
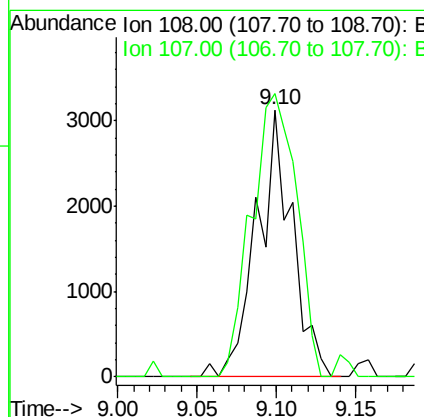
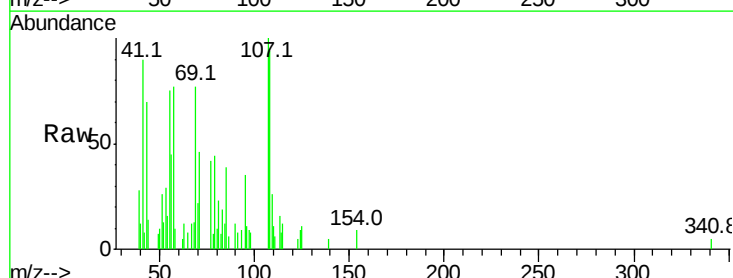
RT: 9.10 min Scan# 938

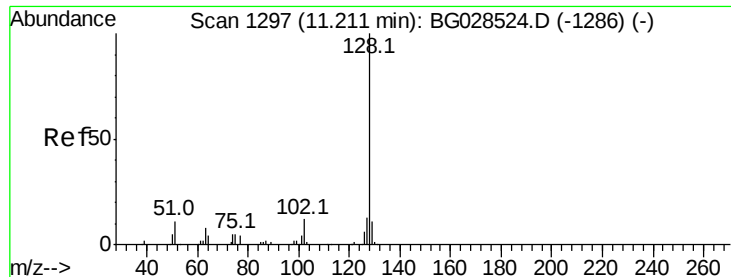
Delta R.T. 0.00 min

Lab File: BG028533.D

Acq: 29 Aug 2017 00:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 108     | 100   |       |       |
| 107     | 106.1 | 91.7  | 137.5 |





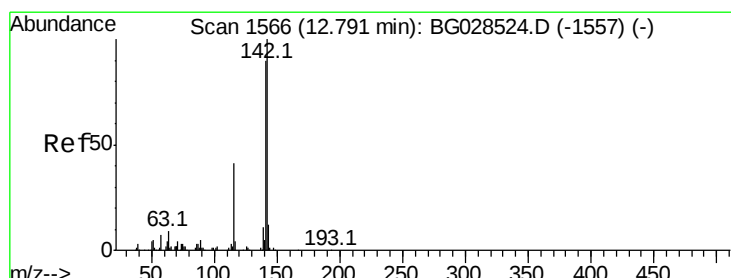
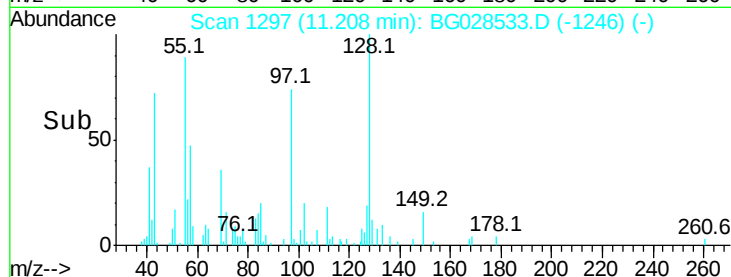
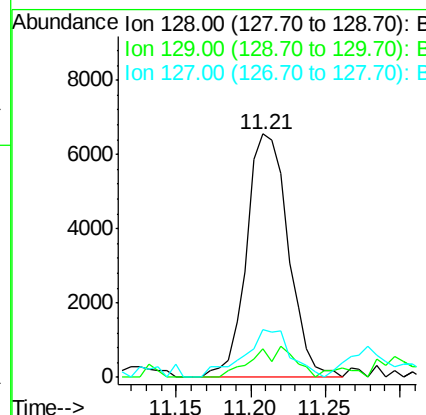
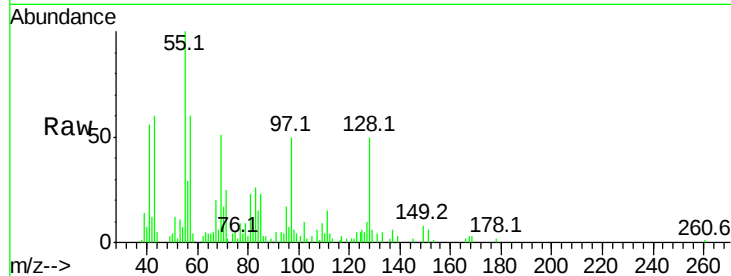
#28  
Naphthalene  
Concen: 1.367 ng/ul  
RT: 11.21 min Scan# 1297  
Delta R.T. -0.00 min  
Lab File: BG028533.D  
Acq: 29 Aug 2017 00:30

Instrument :  
BNA\_G  
ClientSampleId :  
B0B12

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 128     | 100   | 12665 |       |       |
| 129     | 11.6  |       | 9.4   | 14.2  |
| 127     | 19.4  |       | 10.3  | 15.5# |

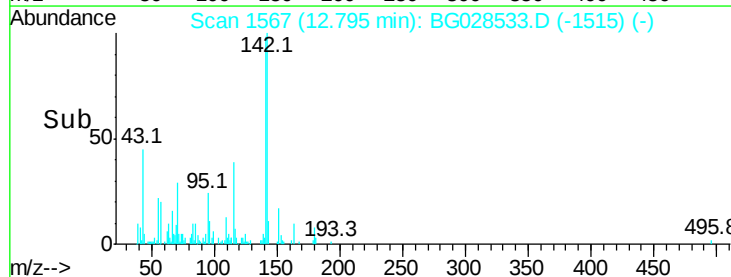
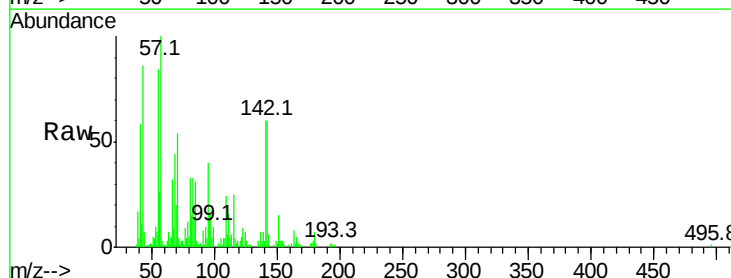
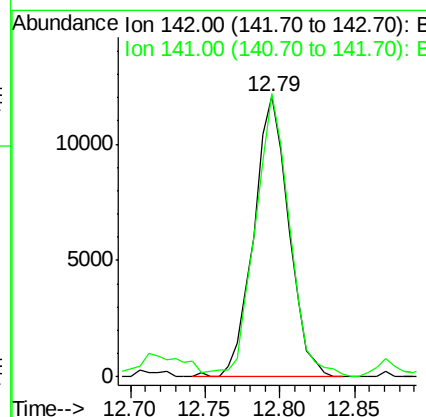
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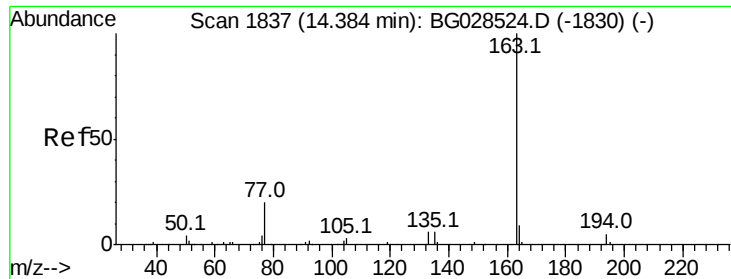
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#34  
2-Methylnaphthalene  
Concen: 2.615 ng/ul  
RT: 12.79 min Scan# 1567  
Delta R.T. 0.00 min  
Lab File: BG028533.D  
Acq: 29 Aug 2017 00:30

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 142     | 100   | 19460 |       |       |
| 141     | 101.0 |       | 68.6  | 102.8 |





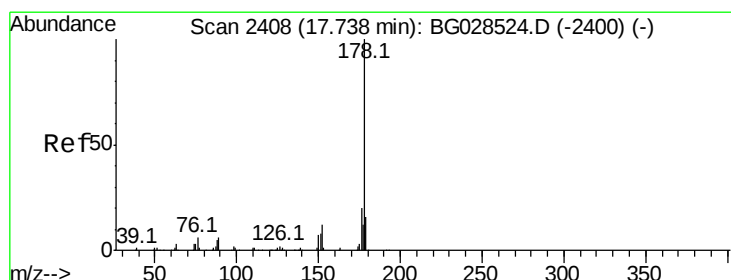
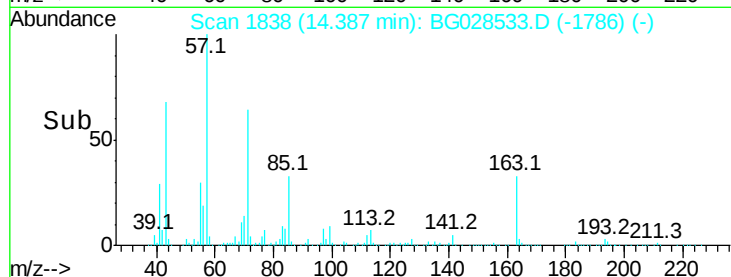
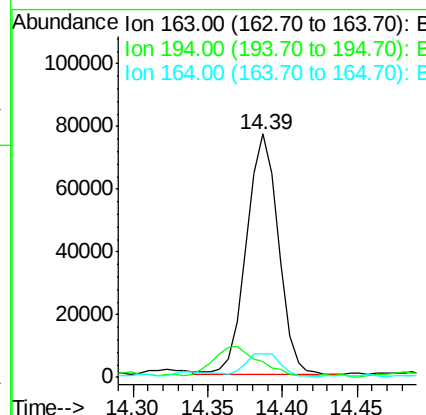
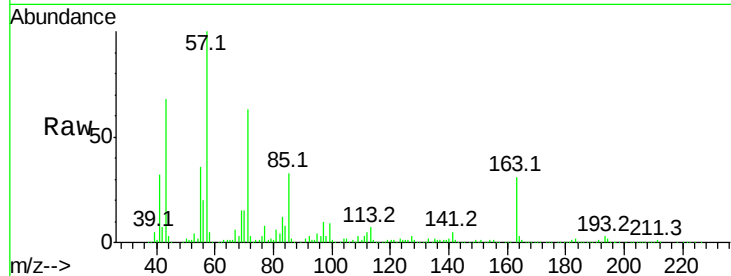
#44  
Dimethylphthalate  
Concen: 12.018 ng/ul  
RT: 14.39 min Scan# 1838  
Delta R.T. 0.00 min  
Lab File: BG028533.D  
Acq: 29 Aug 2017 00:30

Instrument :  
BNA\_G  
ClientSampled :  
B0B12

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 114333 |       |       |
| 194     | 6.6   | 3.4    | 5.0#  |       |
| 164     | 9.6   | 9.0    | 13.4  |       |

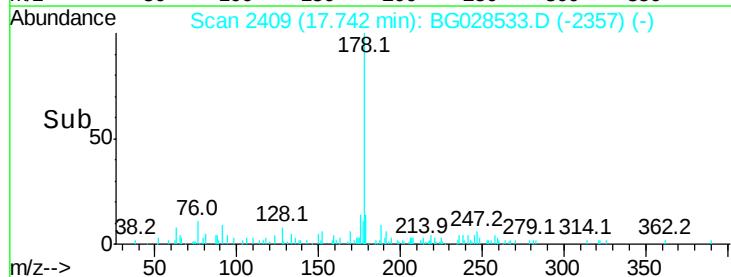
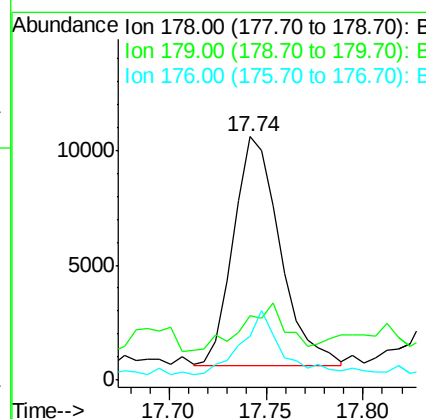
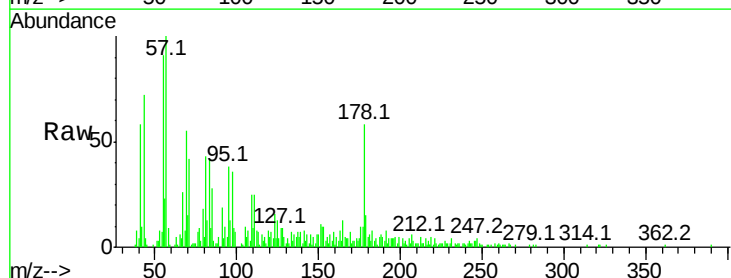
Manual Integrations  
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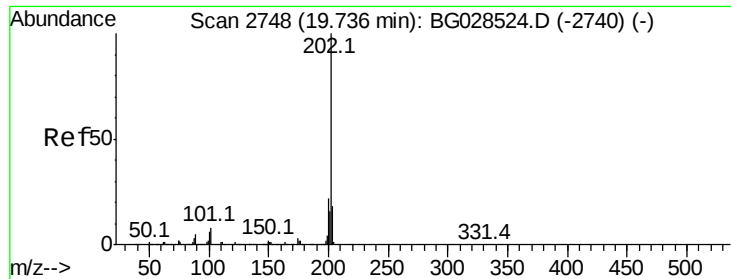
Sohil  
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#69  
Phenanthrene  
Concen: 1.201 ng/ul m  
RT: 17.74 min Scan# 2409  
Delta R.T. 0.00 min  
Lab File: BG028533.D  
Acq: 29 Aug 2017 00:30

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 16588 |       |       |
| 179     | 26.4  | 12.4  | 18.6# |       |
| 176     | 17.9  | 16.5  | 24.7  |       |





#74

Fluoranthene

Concen: 4.318 ng/ul m

RT: 19.75 min Scan# 2750

Delta R.T. 0.01 min

Lab File: BG028533.D

Acq: 29 Aug 2017 00:30

Instrument :

BNA\_G

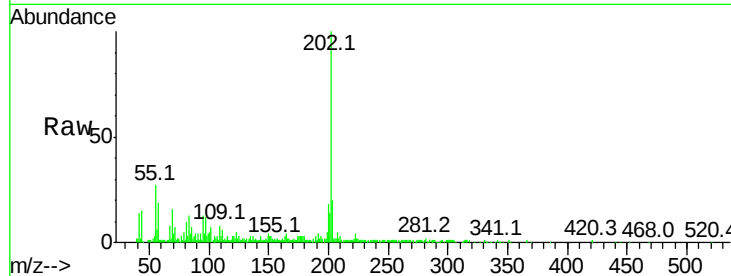
ClientSampleId :

B0B12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 72501 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 7.5   | 6.2   | 9.2   |
| 100       | 5.2   | 5.2   | 7.8#  |

Manual Integrations  
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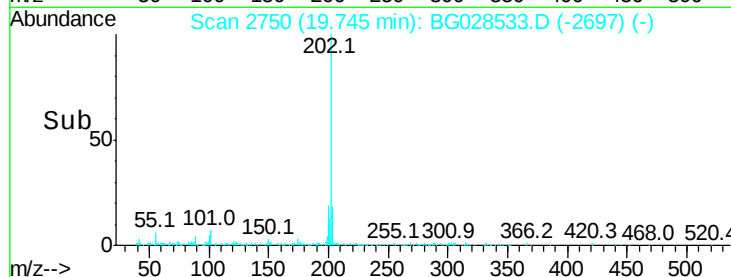


Abundance Ion 202.00 (201.70 to 202.70): E

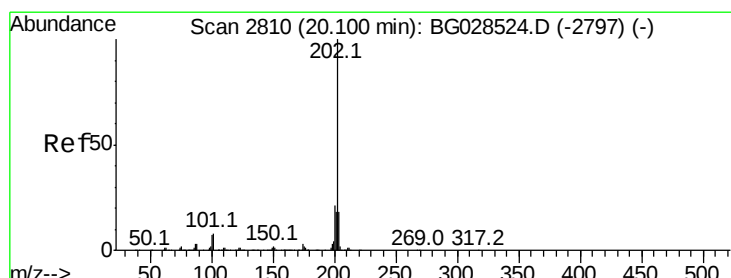
Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

Time-->



Time-->



#77

Pyrene

Concen: 5.080 ng/ul

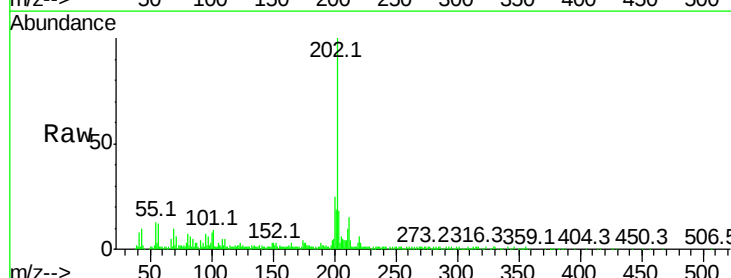
RT: 20.10 min Scan# 2811

Delta R.T. 0.00 min

Lab File: BG028533.D

Acq: 29 Aug 2017 00:30

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 99978 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 8.7   | 6.9   | 10.3  |
| 100       | 8.4   | 6.6   | 10.0  |

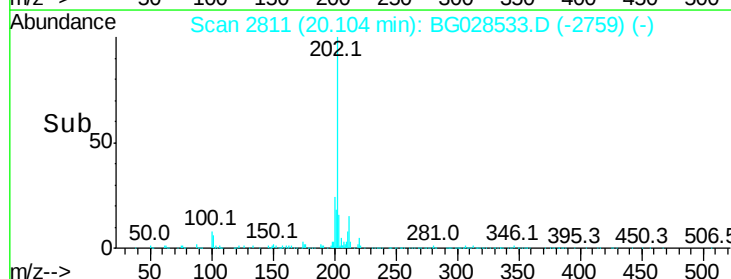


Abundance Ion 202.00 (201.70 to 202.70): E

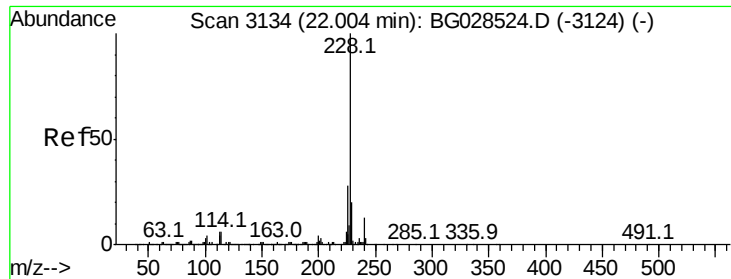
Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

Time-->



Time-->



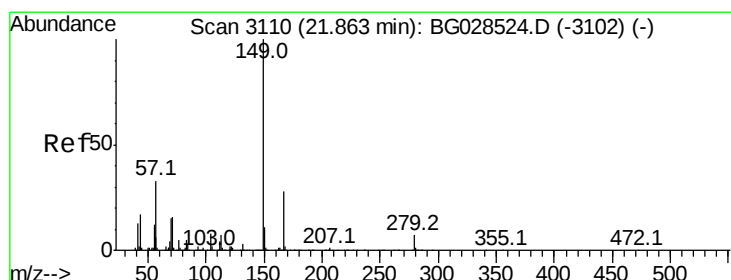
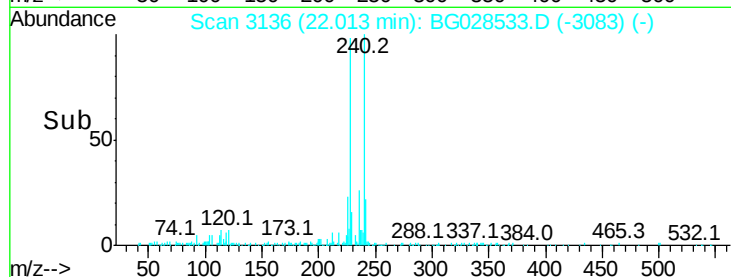
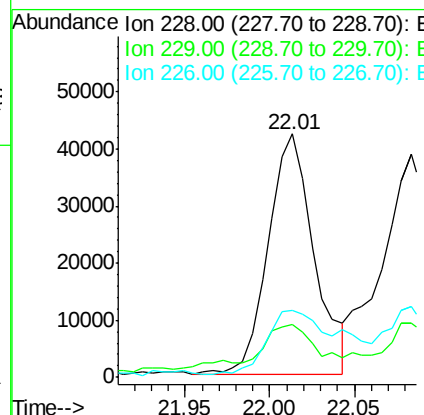
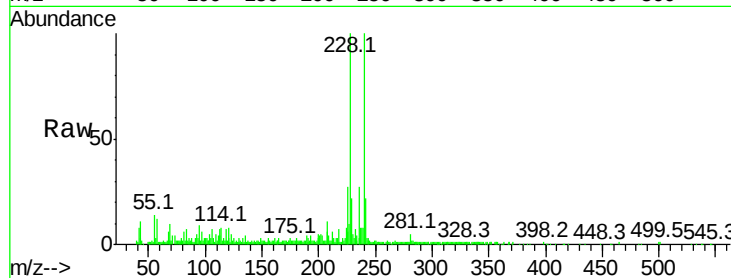
#80  
Benzo(a)anthracene  
Concen: 4.172 ng/ul  
RT: 22.01 min Scan# 3136  
Delta R.T. 0.01 min  
Lab File: BG028533.D  
Acq: 29 Aug 2017 00:30

Instrument :  
BNA\_G  
ClientSampled :  
B0B12

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.7  | 16.3  | 24.5  |
| 226     | 27.3  | 21.9  | 32.9  |

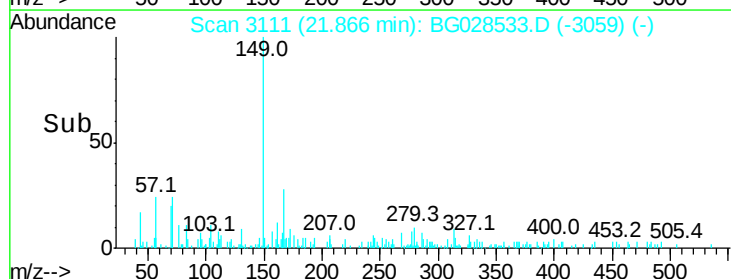
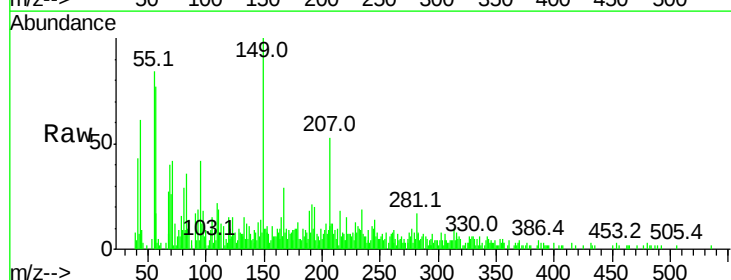
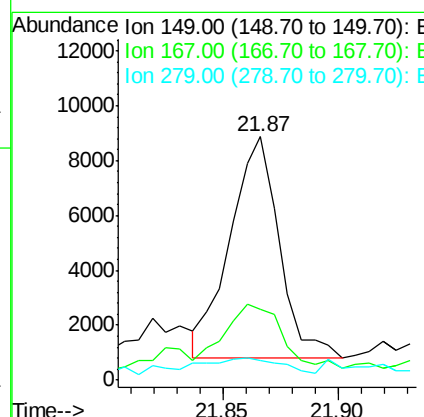
Manual Integrations  
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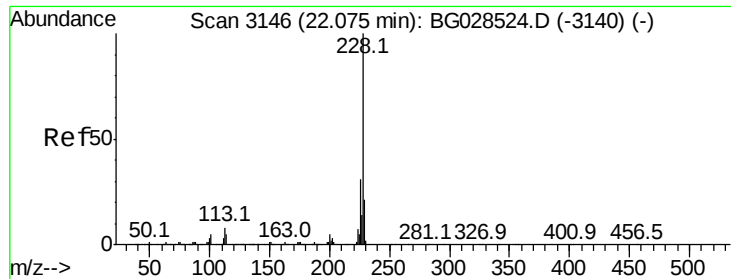
Sohil  
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#81  
Bis(2-ethylhexyl)phthalate  
Concen: 1.145 ng/ul  
RT: 21.87 min Scan# 3111  
Delta R.T. 0.00 min  
Lab File: BG028533.D  
Acq: 29 Aug 2017 00:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 28.9  | 21.8  | 32.8  |
| 279     | 8.1   | 4.5   | 6.7#  |





#82

Chrysene

Concen: 4.539 ng/ul

RT: 22.08 min Scan# 3148

Delta R.T. 0.01 min

Lab File: BG028533.D

Acq: 29 Aug 2017 00:30

Instrument :

BNA\_G

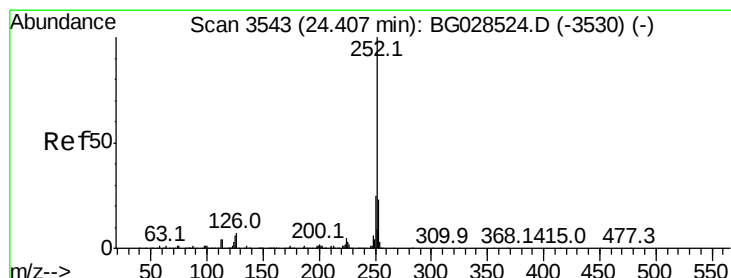
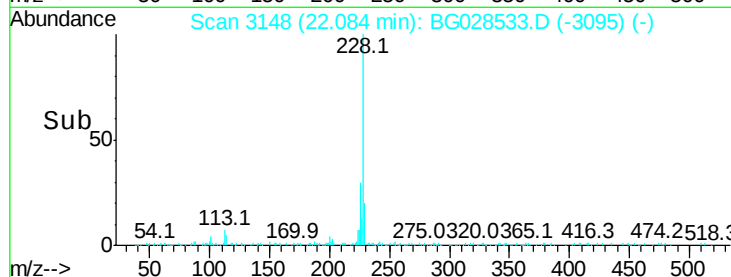
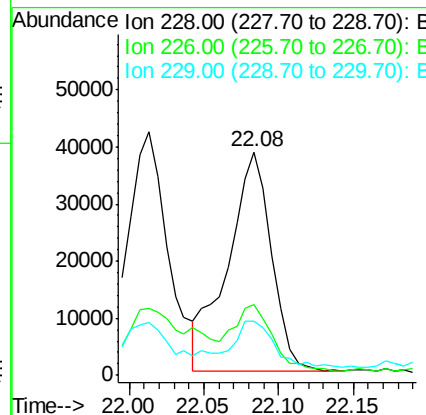
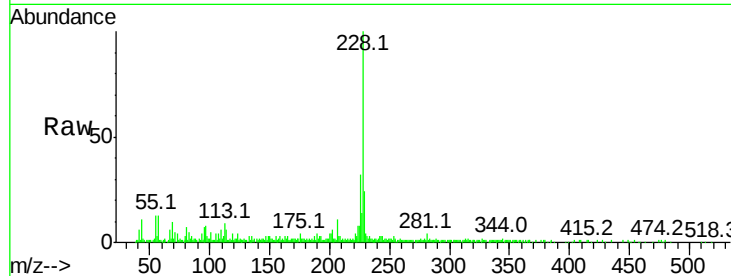
ClientSampled :

B0B12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 77909 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.8  | 24.0  | 36.0  |
| 229       | 24.1  | 16.9  | 25.3  |

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#85

Benzo(b)fluoranthene

Concen: 6.503 ng/ul

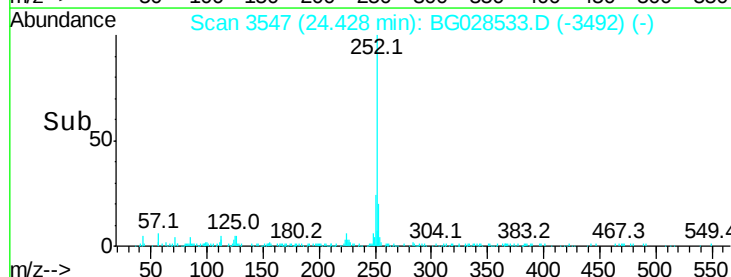
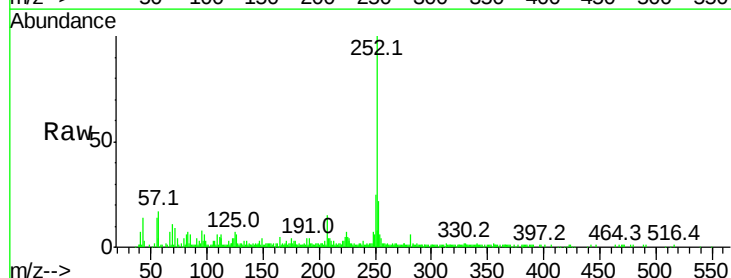
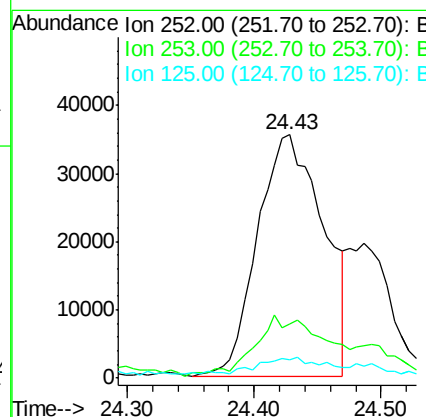
RT: 24.43 min Scan# 3547

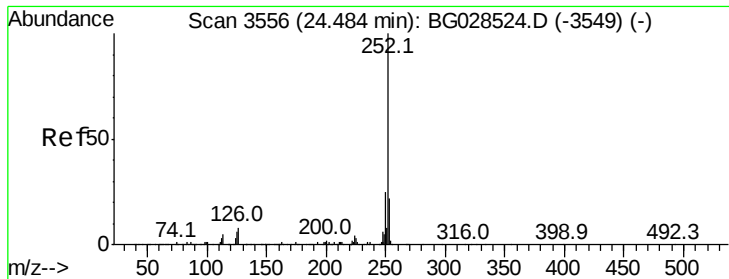
Delta R.T. 0.02 min

Lab File: BG028533.D

Acq: 29 Aug 2017 00:30

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 127942 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.1  | 17.7  | 26.5   |
| 125       | 7.4   | 4.0   | 6.0    |





#86

Benzo(k)fluoranthene

Concen: 2.387 ng/ul

RT: 24.49 min Scan# 3557

Delta R.T. 0.00 min

Lab File: BG028533.D

Acq: 29 Aug 2017 00:30

Instrument :

BNA\_G

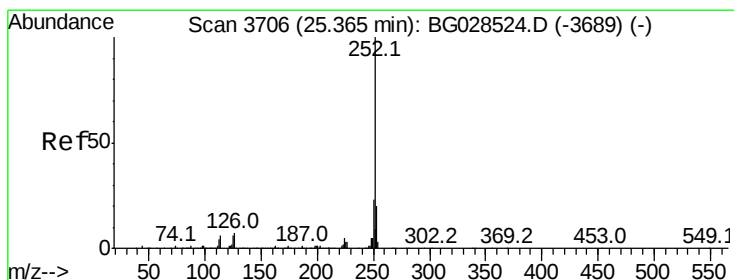
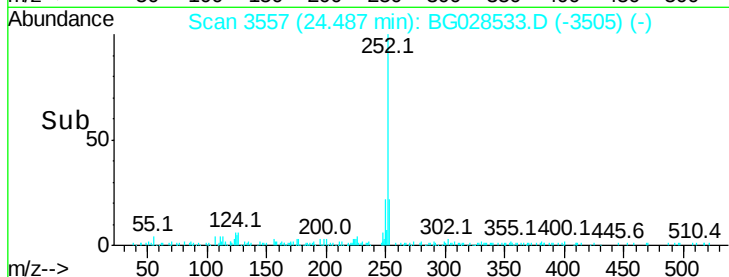
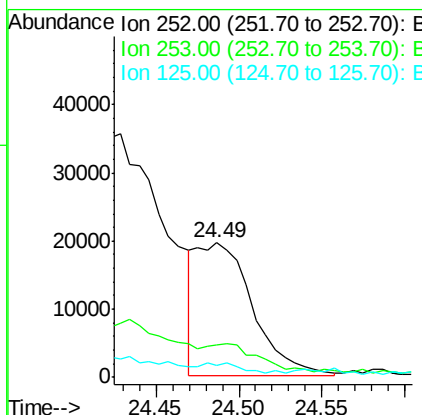
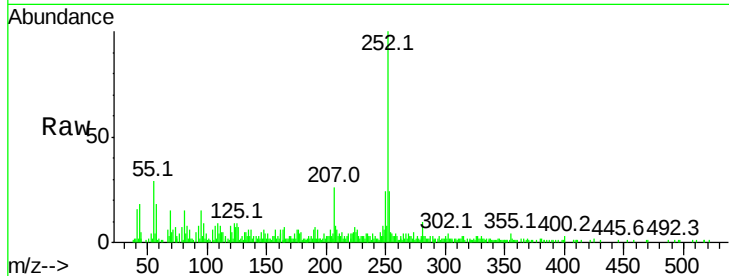
ClientSampled :

B0B12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 45871 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.3  | 18.5  | 27.7  |
| 125       | 8.9   | 4.1   | 6.1#  |

Manual Integrations  
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8/29/2017 6:02:15 PM



#88

Benzo(a)pyrene

Concen: 5.593 ng/ul

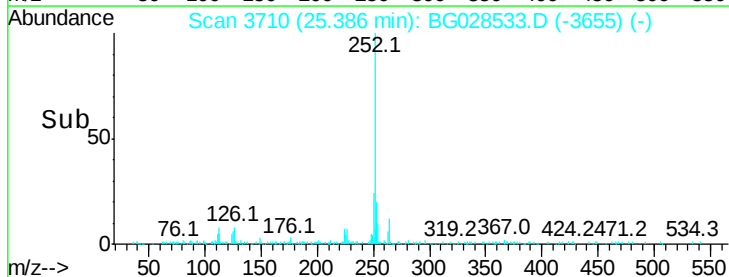
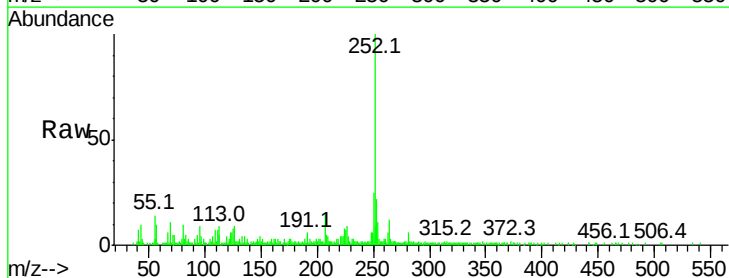
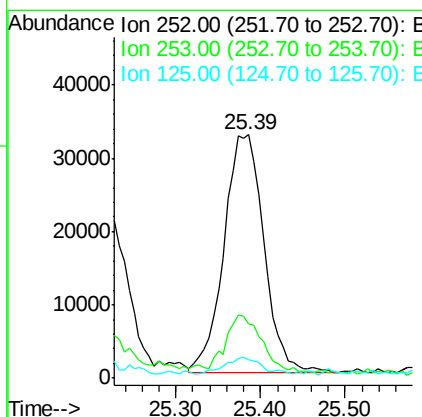
RT: 25.39 min Scan# 3710

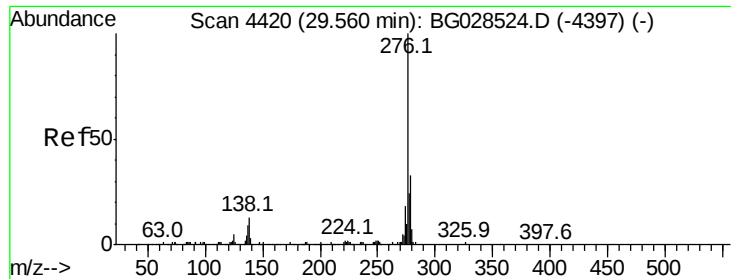
Delta R.T. 0.02 min

Lab File: BG028533.D

Acq: 29 Aug 2017 00:30

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 106554 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.4  | 17.8  | 26.6   |
| 125       | 7.7   | 5.4   | 8.0    |





#89

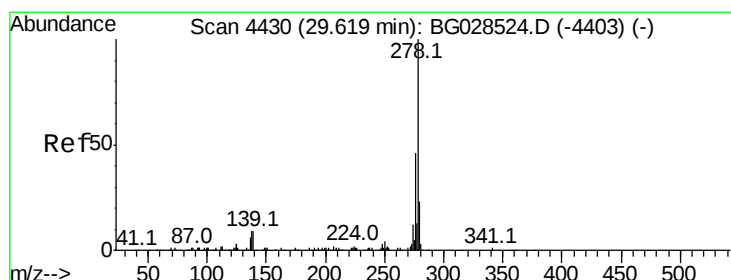
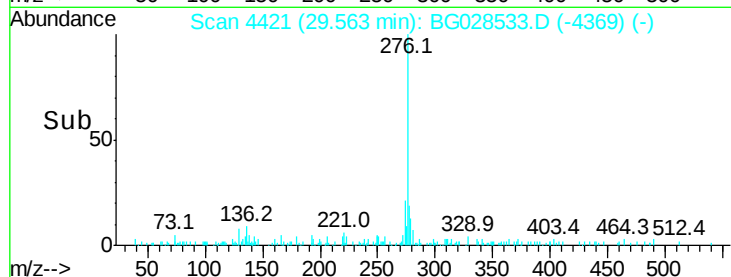
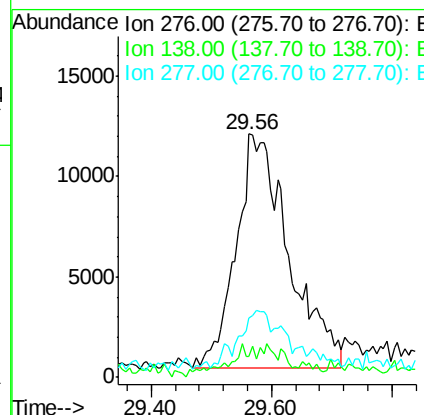
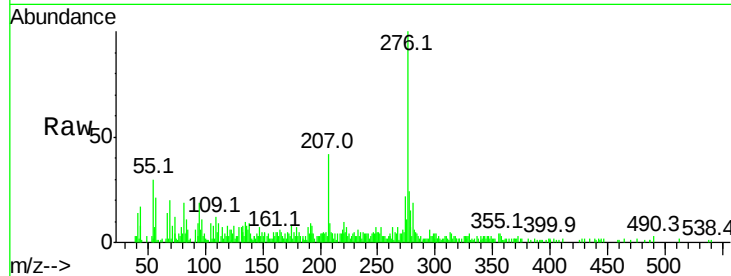
Indeno(1,2,3-cd)pyrene  
Concen: 3.203 ng/ul m  
RT: 29.56 min Scan# 4421  
Delta R.T. 0.00 min  
Lab File: BG028533.D  
Acq: 29 Aug 2017 00:30

Instrument :  
BNA\_G  
ClientSampleId :  
B0B12

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 8.5   | 8.2   | 12.4  |
| 277     | 24.3  | 18.6  | 28.0  |

Manual Integrations  
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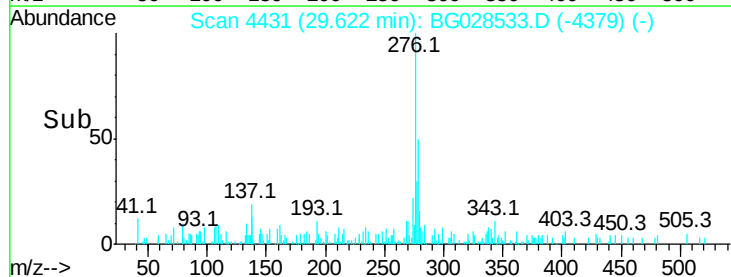
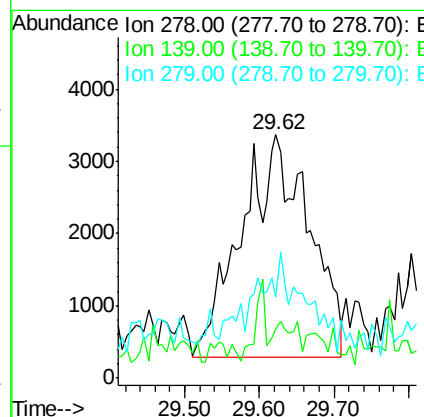
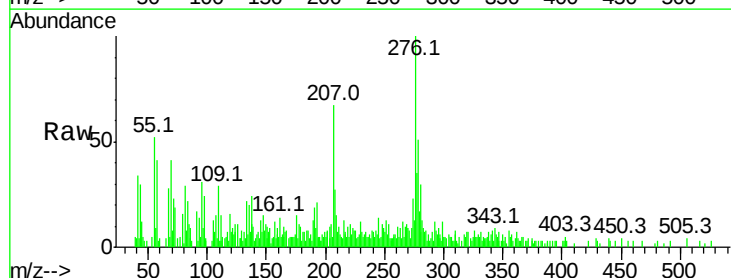
Sohil  
8/29/2017 6:02:15 PM

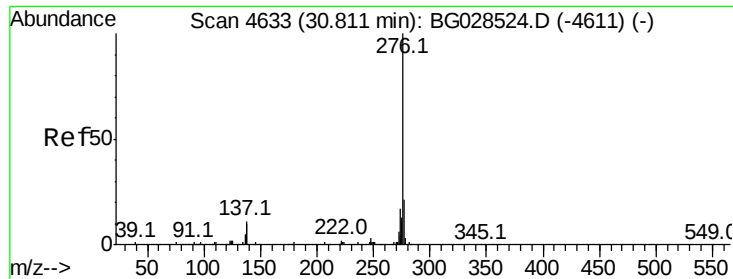


#90

Dibenzo(a,h)anthracene  
Concen: 1.038 ng/ul m  
RT: 29.62 min Scan# 4431  
Delta R.T. 0.00 min  
Lab File: BG028533.D  
Acq: 29 Aug 2017 00:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 20.4  | 6.7   | 10.1# |
| 279     | 33.5  | 20.9  | 31.3# |





#91

Benzo(a,h,i)perylene

Concen: 3.301 ng/ul m

RT: 30.85 min Scan# 4640

Delta R.T. 0.04 min

Lab File: BG028533.D

Acq: 29 Aug 2017 00:30

Instrument :

BNA\_G

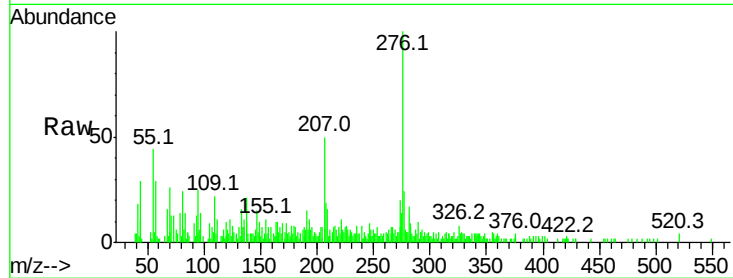
ClientSampleId :

B0B12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 60582 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 10.3  | 8.6   | 12.8  |
| 277       | 24.3  | 17.6  | 26.4  |

Manual Integrations  
APPROVED

Sohil  
8/29/2017 6:02:15 PM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

