

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081216\  
 Data File : BG023657.D  
 Acq On : 12 Aug 2016 15:35  
 Operator : UM/SJ  
 Sample : H4360-12MS  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PR001-SS003-0206-01MS

Manual Integrations  
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 8/15/2016 6:49:32 PM

Quant Time: Aug 13 03:09:28 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080416.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Aug 13 01:31:24 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.11  | 152  | 195741   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.96 | 136  | 740680   | 20.00 | ng/ul | 0.01     |
| 35) Acenaphthene-d10      | 14.79 | 164  | 430651   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.55 | 188  | 915147   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.88 | 240  | 937833   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.30 | 264  | 950929   | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.50  | 96  | 7052   | 1.53  | ng/uL | 0.02 |
| 5) Phenol-d5                   | 7.27  | 99  | 291968 | 14.81 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.43  | 67  | 210439 | 16.66 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.64  | 132 | 220008 | 16.36 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.83  | 113 | 200502 | 13.02 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.30  | 128 | 109785 | 18.80 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.02 | 143 | 133750 | 19.95 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.58 | 165 | 221339 | 17.50 | ng/ul | 0.01 |
| 29) 4-Chloroaniline-d4         | 11.10 | 131 | 50546  | 3.41  | ng/ul | 0.01 |
| 43) Dimethylphthalate-d6       | 14.18 | 166 | 606731 | 17.21 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.48 | 160 | 748438 | 18.86 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.01 | 143 | 95126  | 15.80 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.79 | 176 | 553118 | 16.98 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.92 | 200 | 51443  | 8.76  | ng/ul | 0.01 |
| 70) Anthracene-d10             | 17.65 | 188 | 785085 | 19.04 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.95 | 212 | 813408 | 17.13 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.06 | 264 | 777802 | 18.07 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |       |        | Qvalue |
|--------------------------------|-------|-----|---------|-------|--------|--------|
| 6) Phenol                      | 7.30  | 94  | 307616  | 14.98 | ng/ul# | 73     |
| 10) 2-Chlorophenol             | 7.68  | 128 | 224915  | 16.42 | ng/ul# | 84     |
| 15) N-Nitroso-di-n-propylamine | 8.93  | 70  | 212785  | 14.33 | ng/ul# | 85     |
| 33) 4-Chloro-3-methylphenol    | 12.24 | 107 | 242143  | 14.75 | ng/ul  | 85     |
| 44) Dimethylphthalate          | 14.23 | 163 | 404322  | 11.58 | ng/ul  | 99     |
| 49) Acenaphthene               | 14.85 | 153 | 525896  | 18.60 | ng/ul  | 98     |
| 52) 4-Nitrophenol              | 15.02 | 109 | 86947   | 14.42 | ng/ul# | 71     |
| 54) 2,4-Dinitrotoluene         | 15.16 | 165 | 183280  | 15.98 | ng/ul# | 72     |
| 68) Pentachlorophenol          | 17.21 | 266 | 97432   | 15.79 | ng/ul  | 86     |
| 69) Phenanthrene               | 17.60 | 178 | 309324  | 6.53  | ng/ul  | 99     |
| 74) Fluoranthene               | 19.61 | 202 | 533273  | 10.99 | ng/ul# | 90     |
| 77) Pyrene                     | 19.98 | 202 | 1402422 | 24.19 | ng/ul# | 92     |
| 80) Benzo(a)anthracene         | 21.86 | 228 | 228268  | 4.32  | ng/ul  | 94     |
| 81) Bis(2-ethylhexyl)phthalate | 21.73 | 149 | 42428   | 1.43  | ng/ul# | 91     |
| 82) Chrysene                   | 21.93 | 228 | 255471  | 5.32  | ng/ul# | 94     |
| 85) Benzo(b)fluoranthene       | 24.22 | 252 | 340799m | 6.30  | ng/ul  |        |
| 86) Benzo(k)fluoranthene       | 24.27 | 252 | 81512   | 1.53  | ng/ul# | 77     |
| 88) Benzo(a)pyrene             | 25.13 | 252 | 226813  | 4.34  | ng/ul  | 96     |
| 89) Indeno(1,2,3-cd)pyrene     | 29.21 | 276 | 140082m | 2.28  | ng/ul  |        |
| 91) Benzo(g,h,i)perylene       | 30.45 | 276 | 125822m | 2.47  | ng/ul  |        |

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

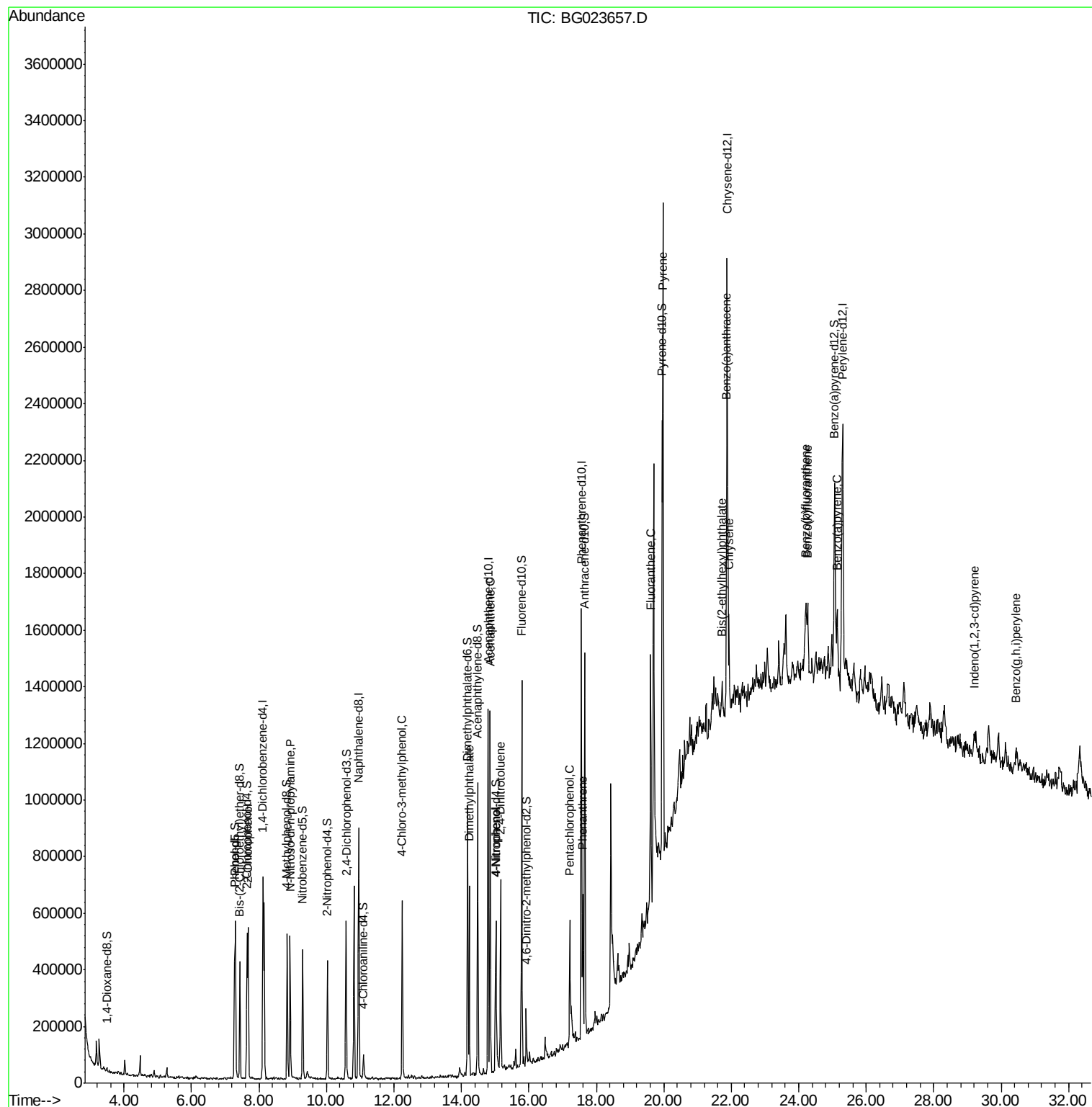
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081216\  
Data File : BG023657.D  
Acq On : 12 Aug 2016 15:35  
Operator : UM/SJ  
Sample : H4360-12MS  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

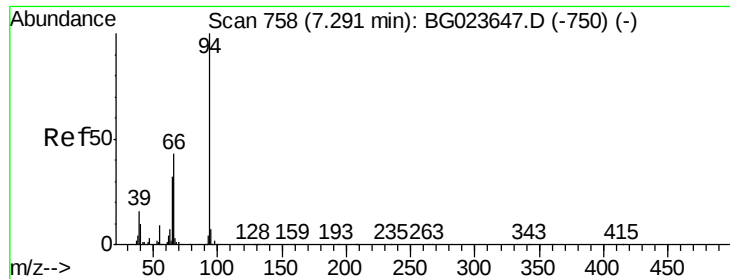
Instrument :  
BNA\_G  
ClientSampleId :  
PR001-SS003-0206-01MS

Manual Integrations  
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Quant Time: Aug 13 03:09:28 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080416.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Aug 13 01:31:24 2016  
Response via : Initial Calibration





#6

Phenol

Concen: 14.98 ng/ul

RT: 7.30 min Scan# 760

Delta R.T. 0.01 min

Lab File: BG023657.D

Acq: 12 Aug 2016 15:35

Instrument :

BNA\_G

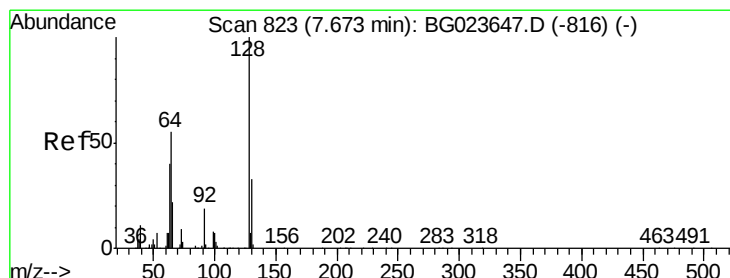
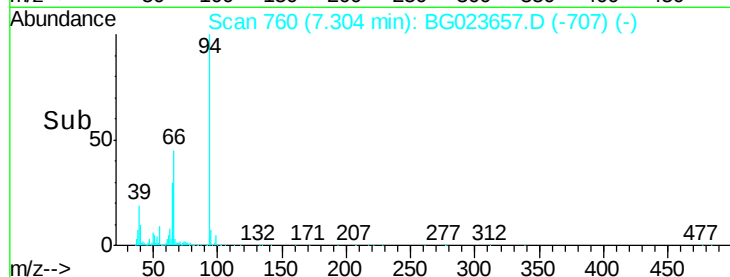
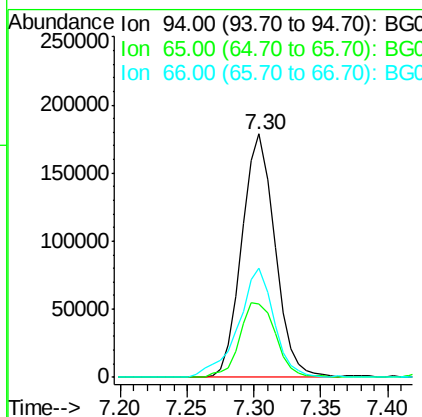
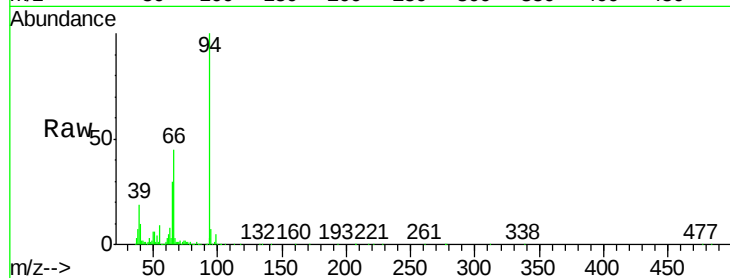
ClientSampleId :

PR001-SS003-0206-01MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 94      | 100   |       |       |
| 65      | 30.3  | 16.8  | 25.2# |
| 66      | 44.8  | 22.6  | 33.8# |

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#10

2-Chlorophenol

Concen: 16.42 ng/ul

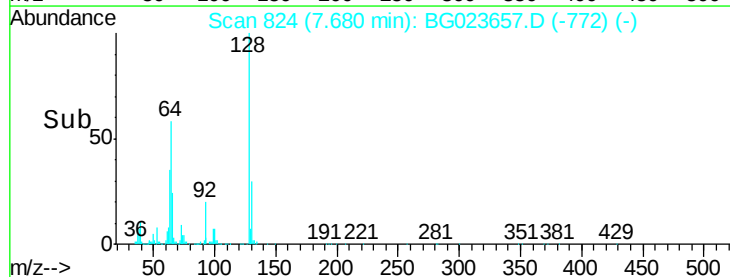
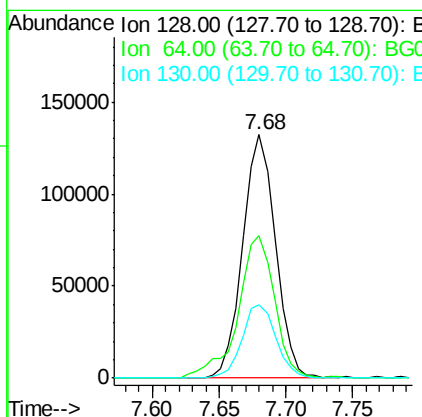
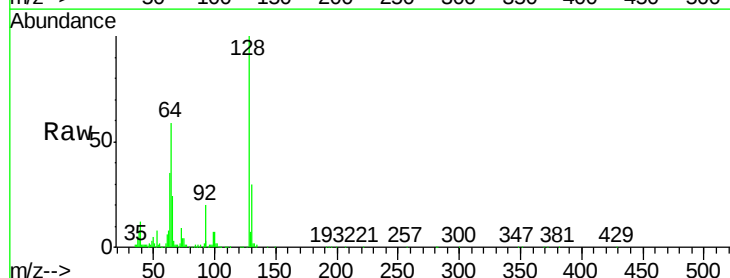
RT: 7.68 min Scan# 824

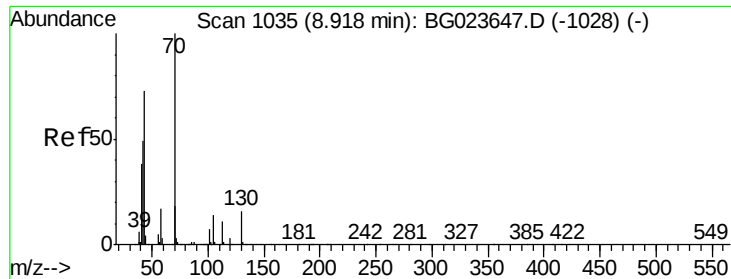
Delta R.T. 0.01 min

Lab File: BG023657.D

Acq: 12 Aug 2016 15:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 64      | 58.6  | 34.2  | 51.4# |
| 130     | 30.4  | 27.0  | 40.4  |





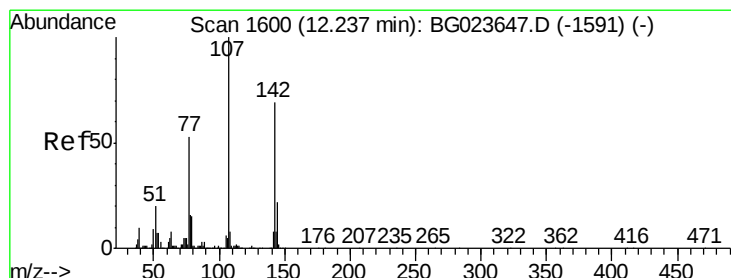
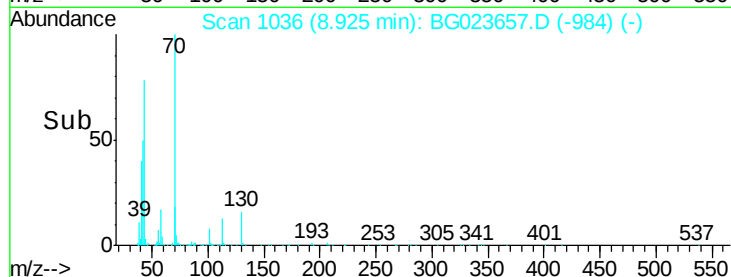
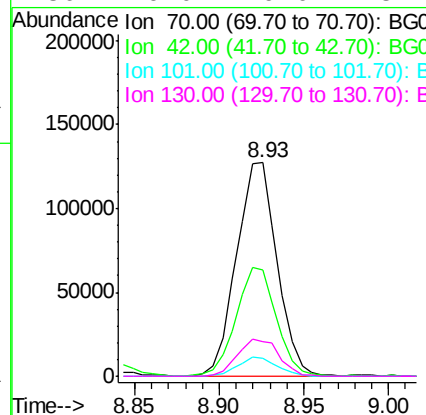
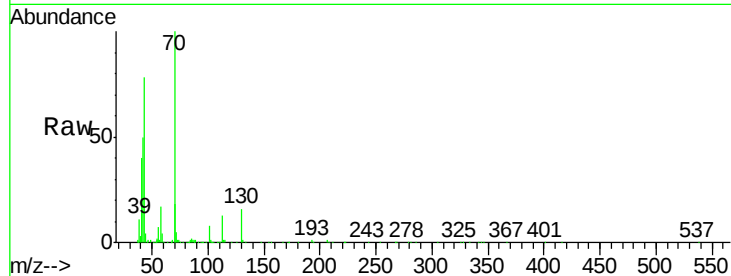
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N-Nitroso-di-n-propylamine  
Concen: 14.33 ng/ul  
RT: 8.93 min Scan# 1036  
Delta R.T. 0.01 min  
Lab File: BG023657.D  
Acq: 12 Aug 2016 15:35

Instrument :  
BNA\_G  
ClientSampleId :  
PR001-SS003-0206-01MS

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 70      | 100   |            |       |
| 42      | 49.7  | 31.4       | 47.2# |
| 101     | 8.4   | 8.6        | 13.0# |
| 130     | 16.0  | 19.0       | 28.4# |

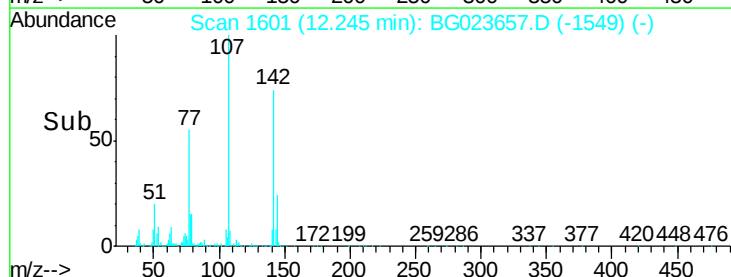
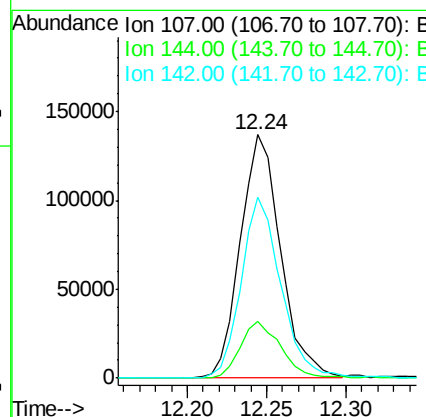
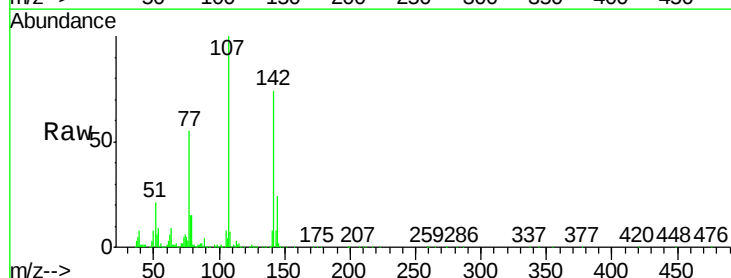
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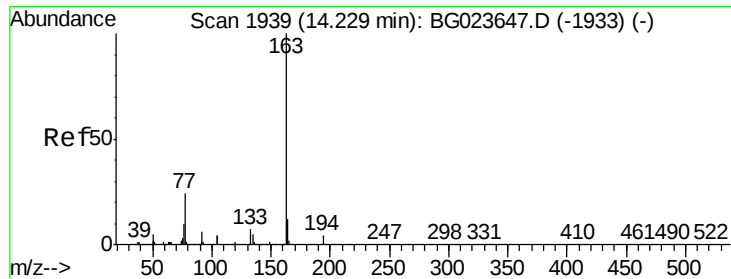
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#33  
4-Chloro-3-methylphenol  
Concen: 14.75 ng/ul  
RT: 12.24 min Scan# 1601  
Delta R.T. 0.01 min  
Lab File: BG023657.D  
Acq: 12 Aug 2016 15:35

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 107     | 100   |            |       |
| 144     | 23.5  | 22.7       | 34.1  |
| 142     | 74.1  | 71.6       | 107.4 |





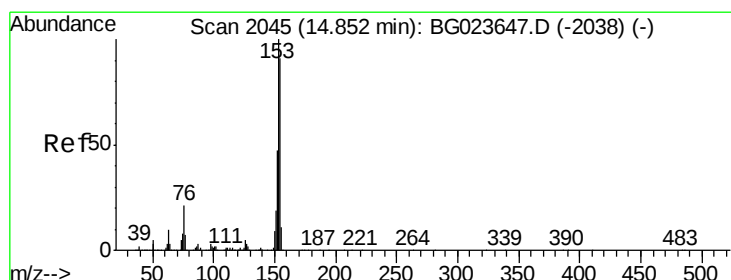
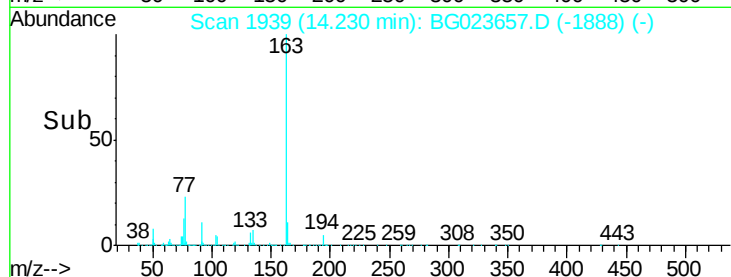
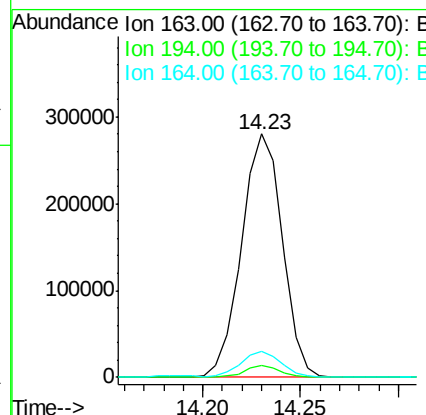
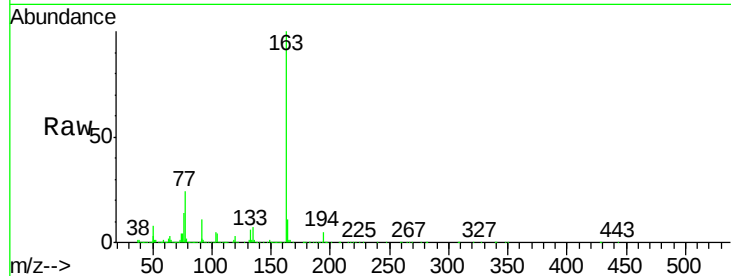
#44  
Dimethylphthalate  
Concen: 11.58 ng/ul  
RT: 14.23 min Scan# 1939  
Delta R.T. 0.00 min  
Lab File: BG023657.D  
Acq: 12 Aug 2016 15:35

Instrument :  
BNA\_G  
ClientSampleId :  
PR001-SS003-0206-01MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.8   | 3.4   | 5.2   |
| 164     | 10.9  | 8.8   | 13.2  |

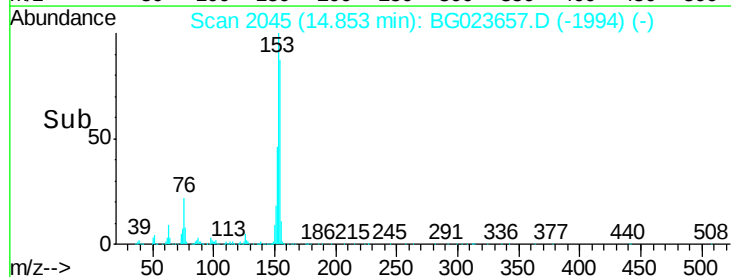
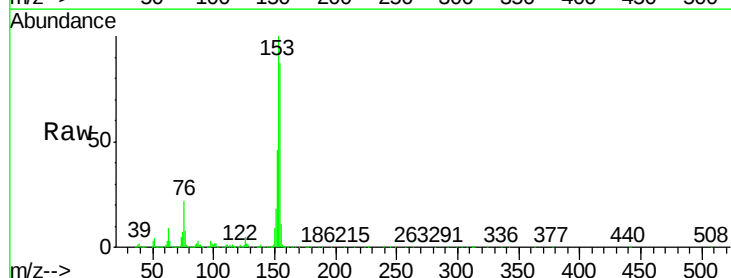
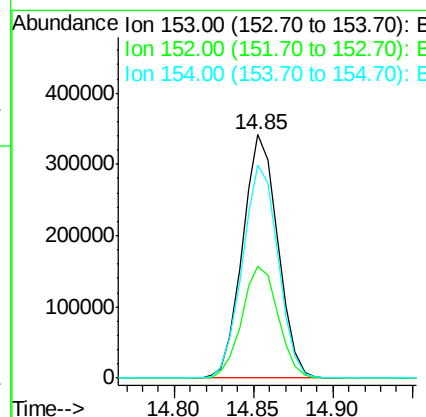
Manual Integrations  
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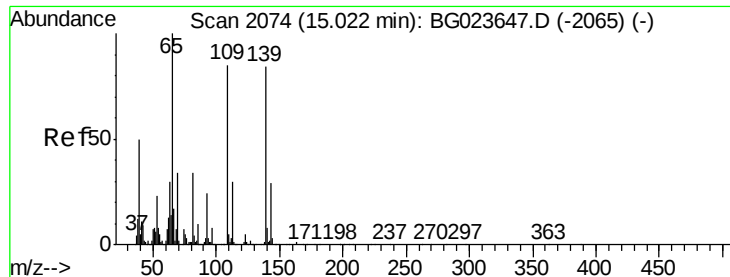
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#49  
Acenaphthene  
Concen: 18.60 ng/ul  
RT: 14.85 min Scan# 2045  
Delta R.T. 0.00 min  
Lab File: BG023657.D  
Acq: 12 Aug 2016 15:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 46.0  | 37.3  | 55.9  |
| 154     | 87.4  | 68.2  | 102.2 |





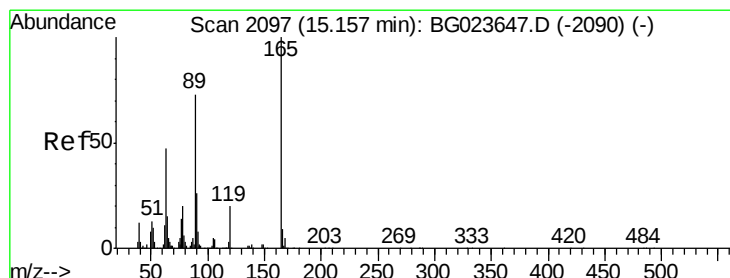
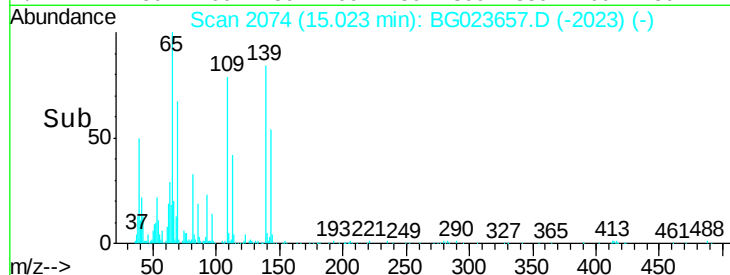
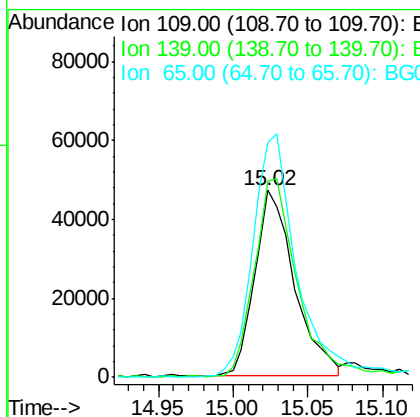
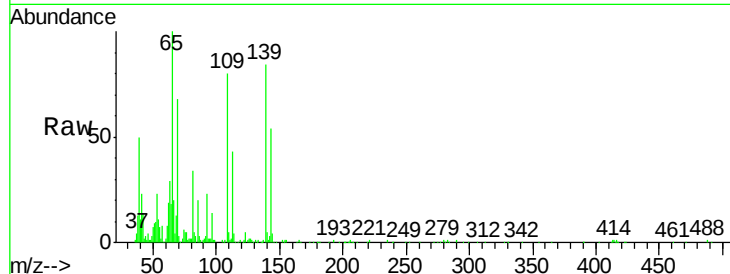
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4-Nitrophenol  
Concen: 14.42 ng/ul  
RT: 15.02 min Scan# 2074  
Delta R.T. 0.00 min  
Lab File: BG023657.D  
Acq: 12 Aug 2016 15:35

Instrument :  
BNA\_G  
ClientSampleId :  
PR001-SS003-0206-01MS

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 109     | 100   |       |        |
| 139     | 105.0 | 136.1 | 204.1# |
| 65      | 125.6 | 106.0 | 159.0  |

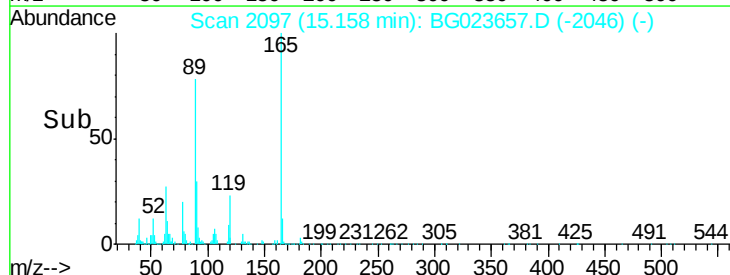
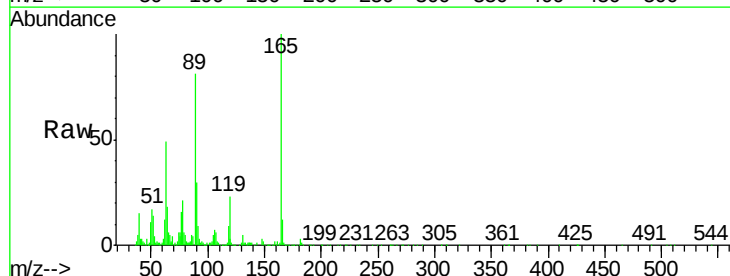
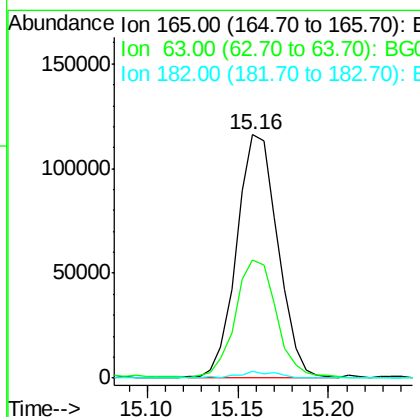
Manual Integrations  
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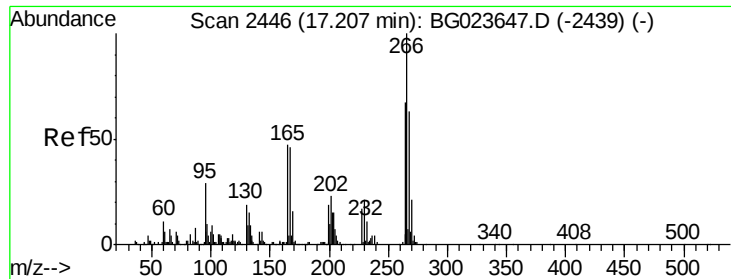
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#54  
2,4-Dinitrotoluene  
Concen: 15.98 ng/ul  
RT: 15.16 min Scan# 2097  
Delta R.T. 0.00 min  
Lab File: BG023657.D  
Acq: 12 Aug 2016 15:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 48.7  | 25.7  | 38.5# |
| 182     | 2.9   | 2.1   | 3.1   |





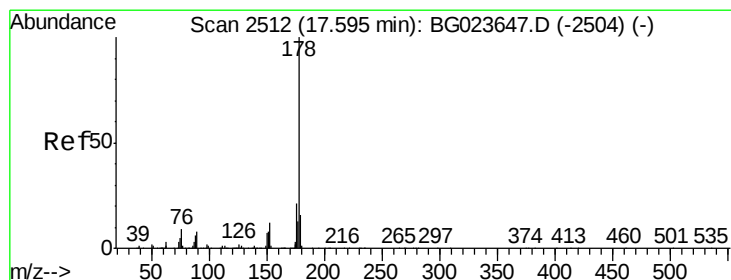
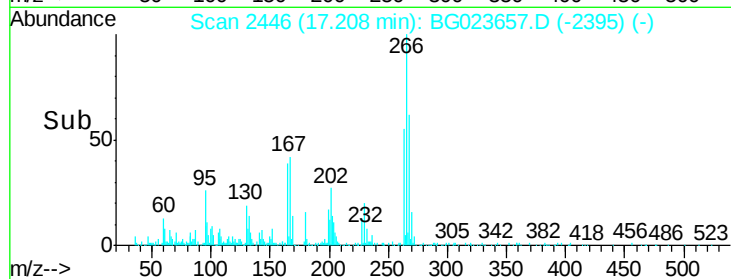
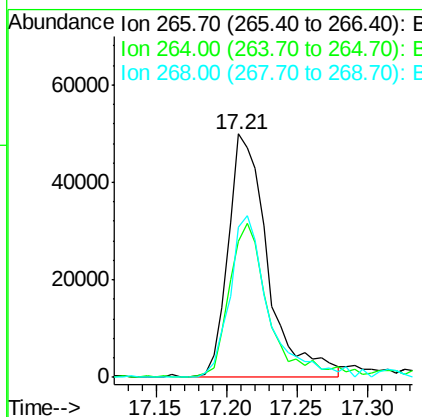
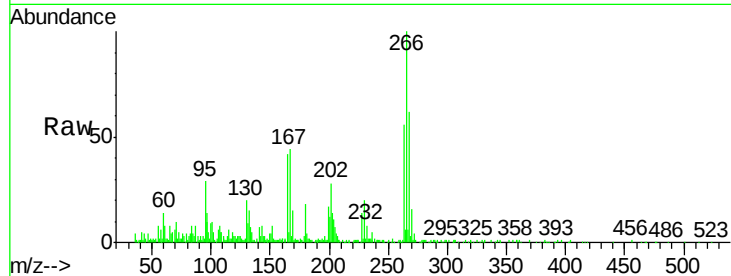
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 Pentachlorophenol  
 Concen: 15.79 ng/ul  
 RT: 17.21 min Scan# 2446  
 Delta R.T. 0.00 min  
 Lab File: BG023657.D  
 Acq: 12 Aug 2016 15:35

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PR001-SS003-0206-01MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 55.9  | 54.7  | 82.1  |
| 268     | 61.6  | 57.8  | 86.8  |

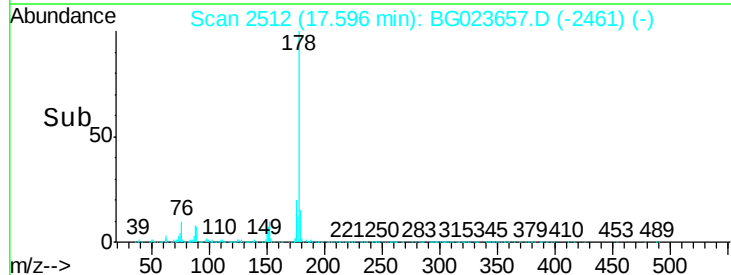
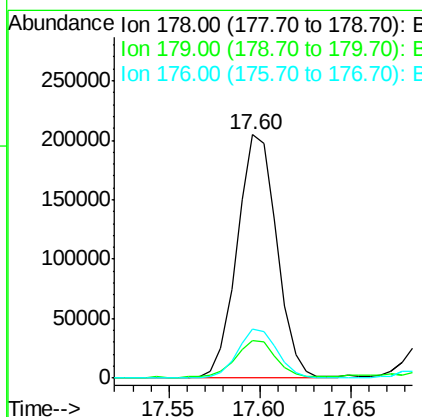
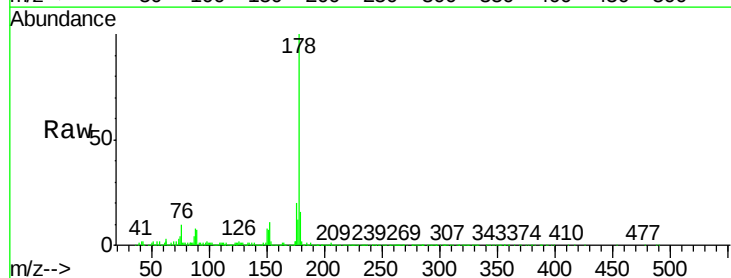
Manual Integrations  
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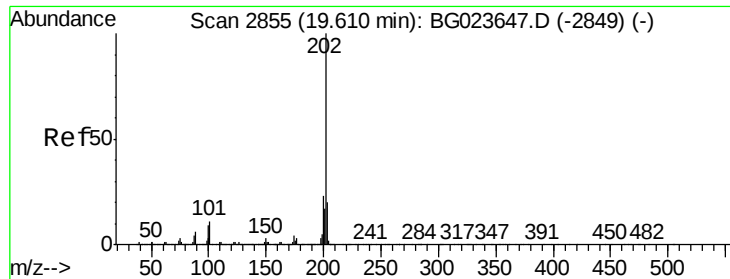
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#69  
 Phenanthrene  
 Concen: 6.53 ng/ul  
 RT: 17.60 min Scan# 2512  
 Delta R.T. 0.00 min  
 Lab File: BG023657.D  
 Acq: 12 Aug 2016 15:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.5  | 12.9  | 19.3  |
| 176     | 20.3  | 15.8  | 23.8  |





#74

Fluoranthene

Concen: 10.99 ng/ul

RT: 19.61 min Scan# 2855

Delta R.T. 0.00 min

Lab File: BG023657.D

Acq: 12 Aug 2016 15:35

Instrument :

BNA\_G

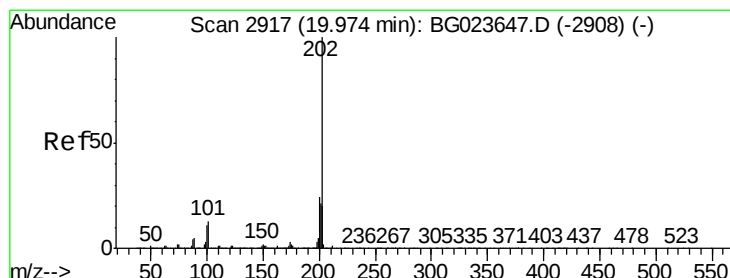
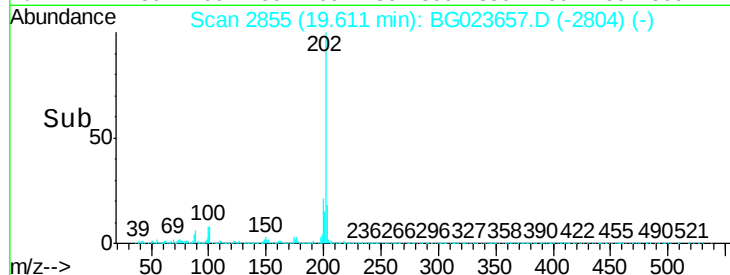
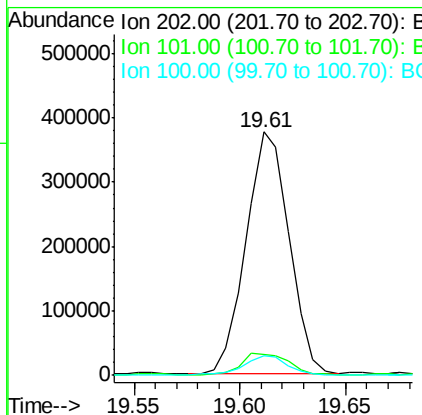
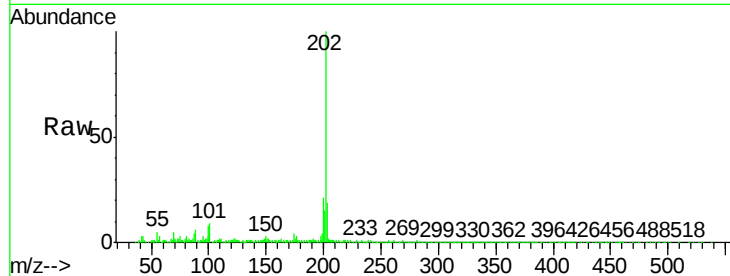
ClientSampleId :

PR001-SS003-0206-01MS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 533273 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 8.7   | 10.6  | 16.0#  |
| 100       | 8.1   | 8.7   | 13.1#  |

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#77

Pyrene

Concen: 24.19 ng/ul

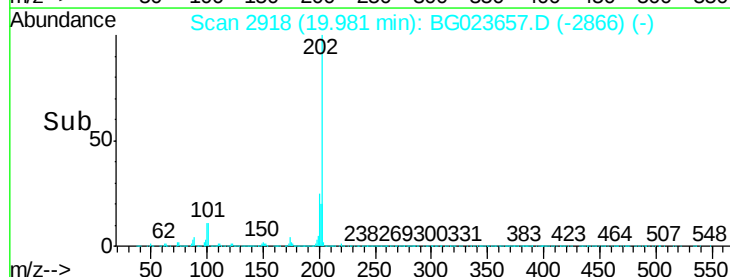
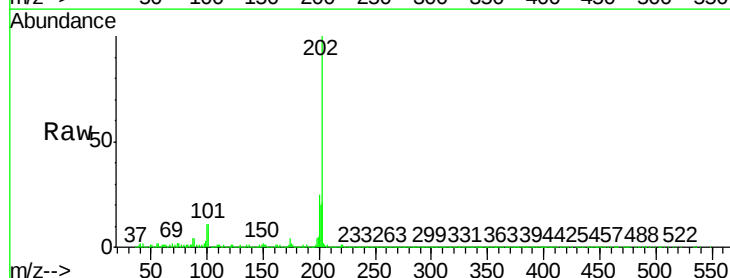
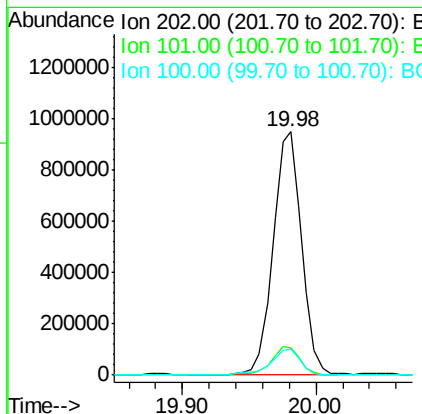
RT: 19.98 min Scan# 2918

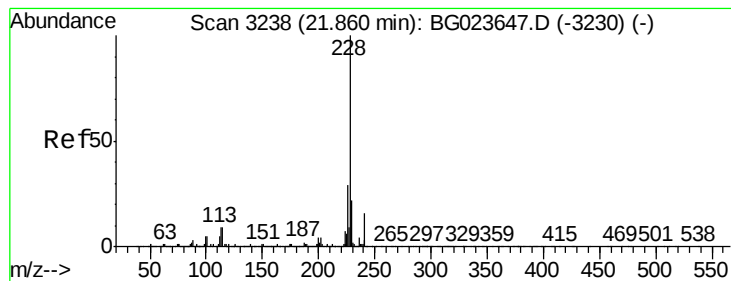
Delta R.T. 0.01 min

Lab File: BG023657.D

Acq: 12 Aug 2016 15:35

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1402422 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 11.0  | 12.5  | 18.7#   |
| 100       | 10.9  | 10.2  | 15.4    |





#80

Benzo(a)anthracene

Concen: 4.32 ng/ul

RT: 21.86 min Scan# 3238

Delta R.T. 0.00 min

Lab File: BG023657.D

Acq: 12 Aug 2016 15:35

Instrument :

BNA\_G

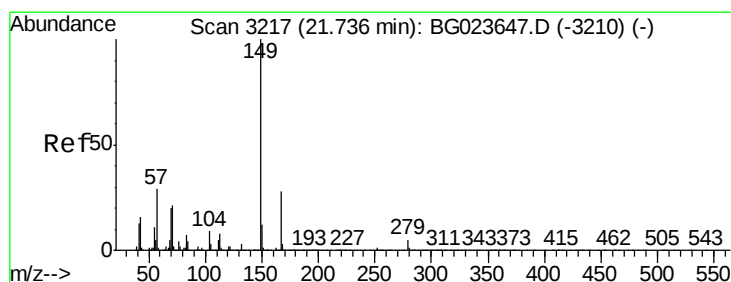
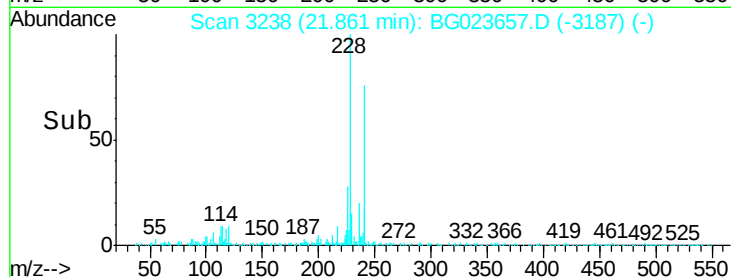
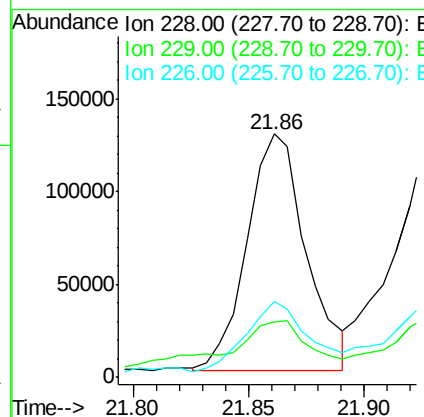
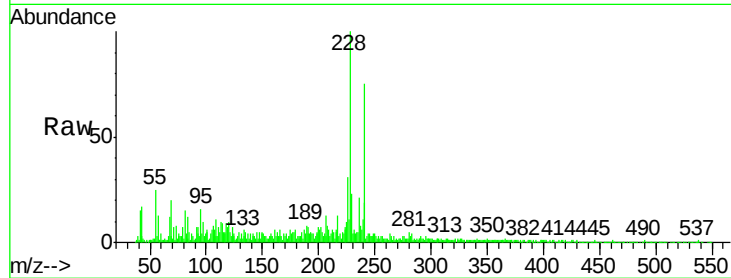
ClientSampleId :

PR001-SS003-0206-01MS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 228268 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 23.0  | 15.4  | 23.2   |
| 226       | 31.2  | 22.8  | 34.2   |

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#81

Bis(2-ethylhexyl)phthalate

Concen: 1.43 ng/ul

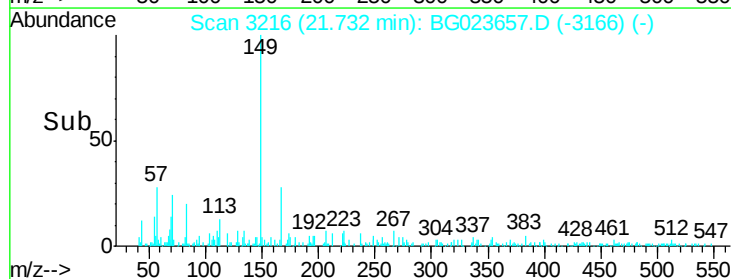
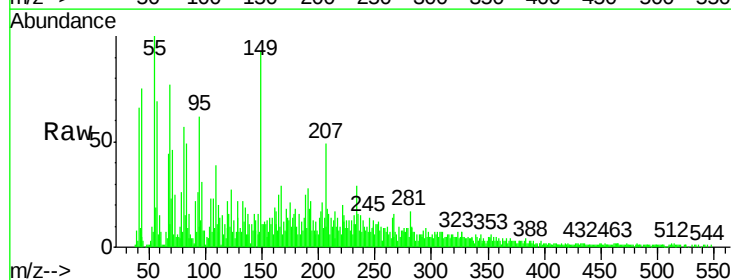
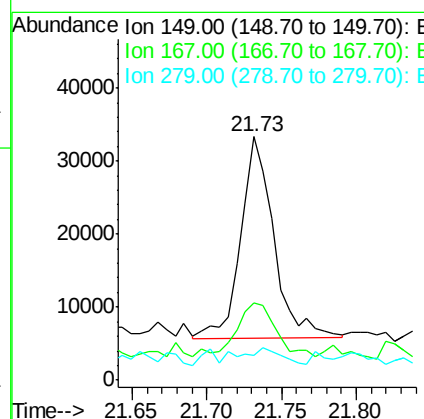
RT: 21.73 min Scan# 3216

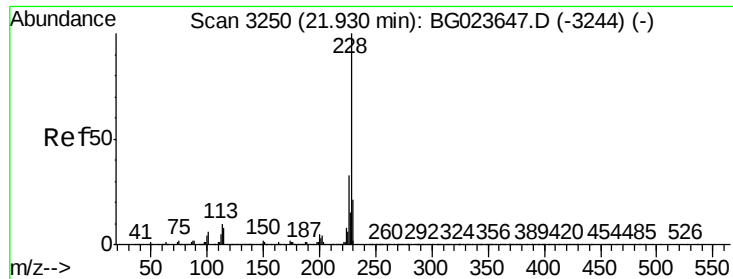
Delta R.T. -0.00 min

Lab File: BG023657.D

Acq: 12 Aug 2016 15:35

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 42428 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 31.6  | 21.9  | 32.9  |
| 279       | 10.2  | 2.9   | 4.3#  |





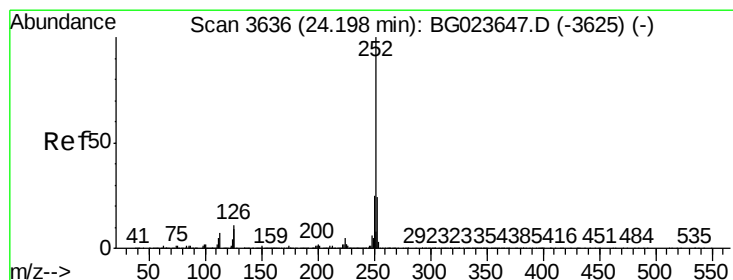
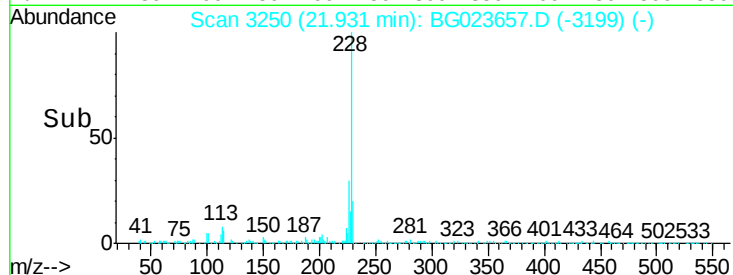
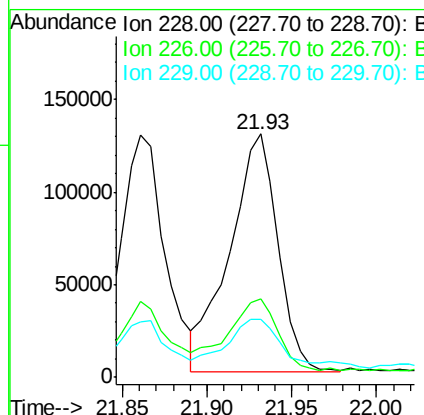
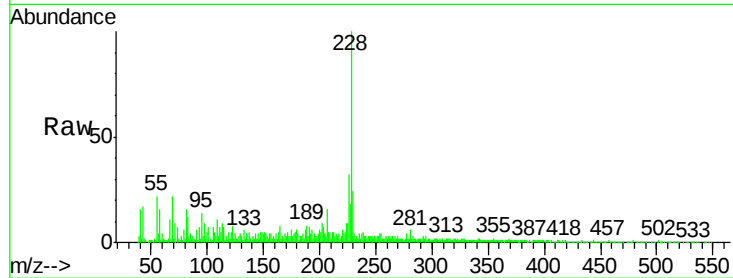
#82  
Chrysene  
Concen: 5.32 ng/ul  
RT: 21.93 min Scan# 3250  
Delta R.T. 0.00 min  
Lab File: BG023657.D  
Acq: 12 Aug 2016 15:35

Instrument :  
BNA\_G  
ClientSampleId :  
PR001-SS003-0206-01MS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 255471 |       |       |
| 226     | 32.1  |        | 24.2  | 36.4  |
| 229     | 23.7  |        | 15.0  | 22.6  |

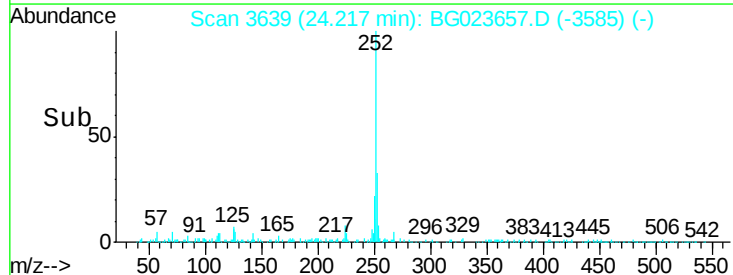
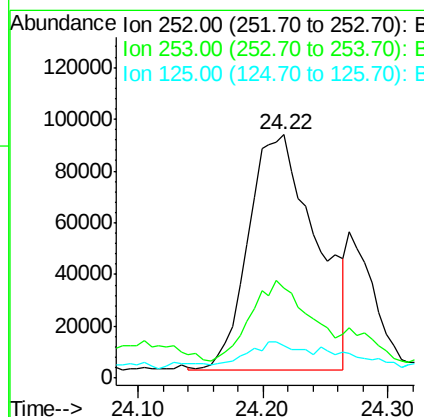
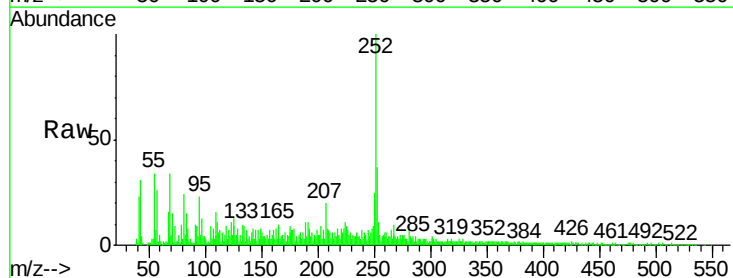
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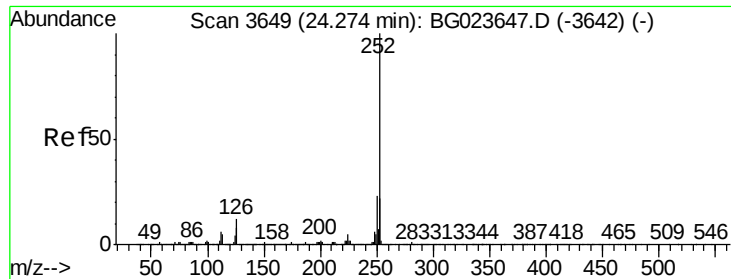
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#85  
Benzo(b)fluoranthene  
Concen: 6.30 ng/ul m  
RT: 24.22 min Scan# 3639  
Delta R.T. 0.02 min  
Lab File: BG023657.D  
Acq: 12 Aug 2016 15:35

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 340799 |       |       |
| 253     | 36.7  |        | 18.2  | 27.2  |
| 125     | 13.2  |        | 10.8  | 16.2  |





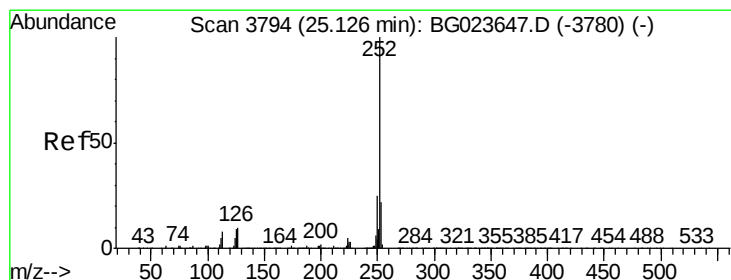
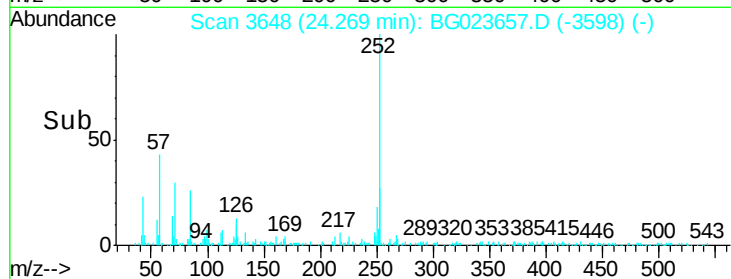
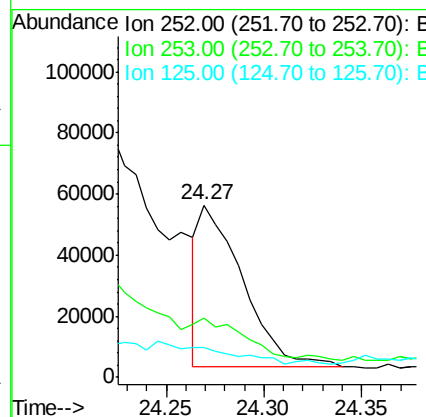
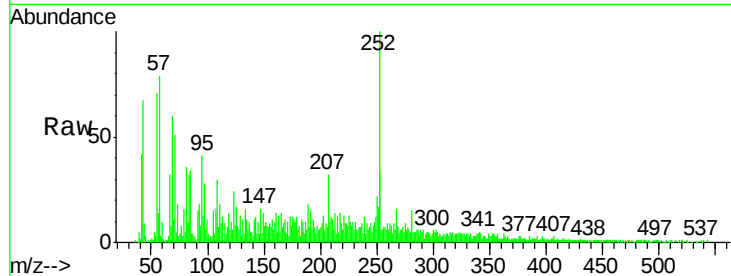
#86  
Benzo(k)fluoranthene  
Concen: 1.53 ng/ul  
RT: 24.27 min Scan# 3648  
Delta R.T. -0.00 min  
Lab File: BG023657.D  
Acq: 12 Aug 2016 15:35

Instrument :  
BNA\_G  
ClientSampleId :  
PR001-SS003-0206-01MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 34.1  | 15.8  | 23.6# |
| 125     | 17.0  | 10.6  | 16.0# |

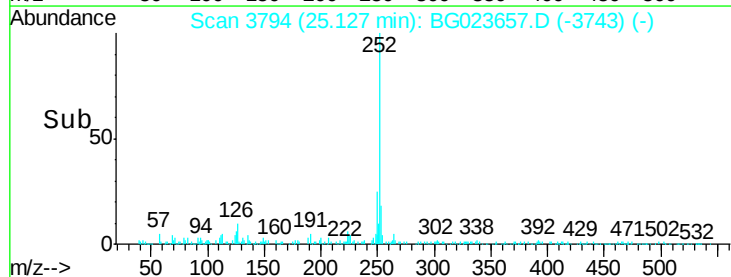
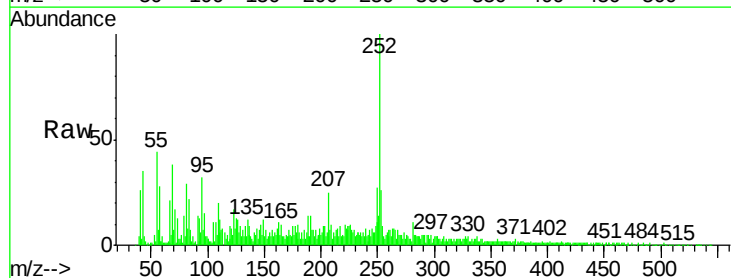
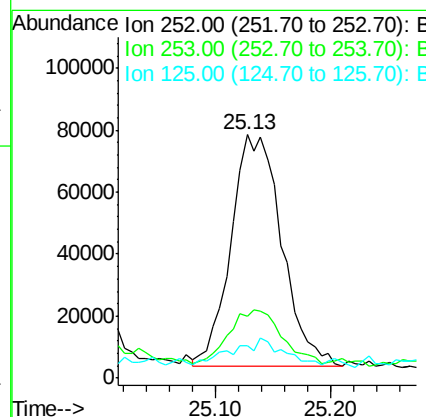
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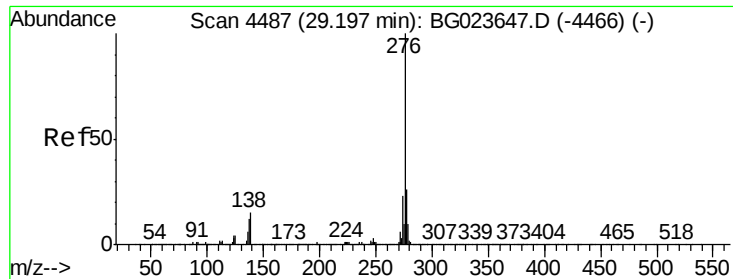
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#88  
Benzo(a)pyrene  
Concen: 4.34 ng/ul  
RT: 25.13 min Scan# 3794  
Delta R.T. 0.00 min  
Lab File: BG023657.D  
Acq: 12 Aug 2016 15:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.7  | 19.0  | 28.4  |
| 125     | 13.1  | 12.0  | 18.0  |





#89

Indeno(1,2,3-cd)pyrene

Concen: 2.28 ng/ul m

RT: 29.21 min Scan# 4489

Delta R.T. 0.01 min

Lab File: BG023657.D

Acq: 12 Aug 2016 15:35

Instrument :

BNA\_G

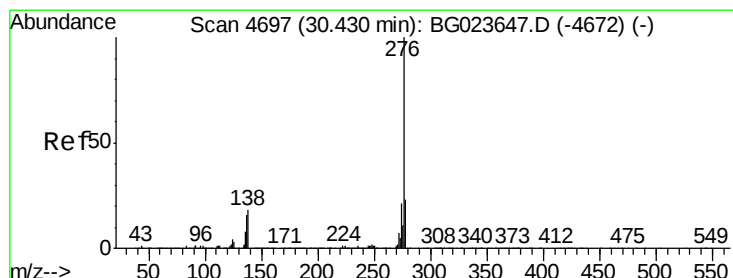
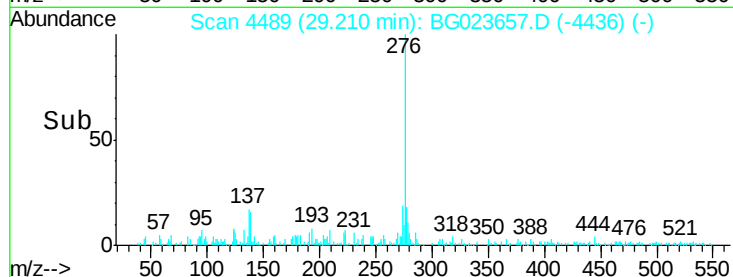
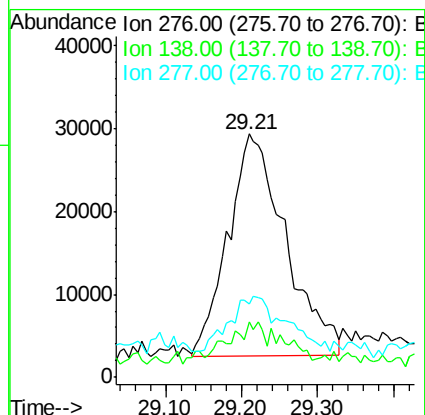
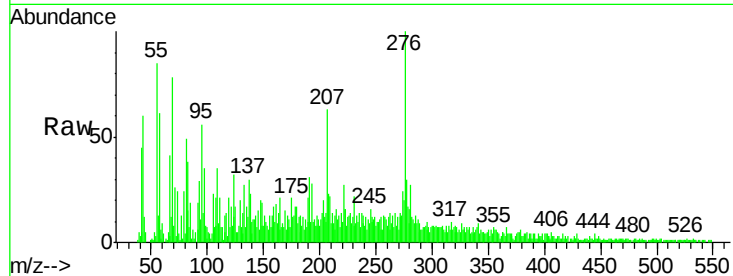
ClientSampleId :

PR001-SS003-0206-01MS

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 276  | Resp: | 140082 |
| Ion Ratio |      | Lower | Upper  |
| 276       | 100  |       |        |
| 138       | 22.6 | 20.8  | 31.2   |
| 277       | 30.1 | 17.6  | 26.4#  |

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#91

Benzo(g,h,i)perylene

Concen: 2.47 ng/ul m

RT: 30.45 min Scan# 4700

Delta R.T. 0.02 min

Lab File: BG023657.D

Acq: 12 Aug 2016 15:35

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 276  | Resp: | 125822 |
| Ion Ratio |      | Lower | Upper  |
| 276       | 100  |       |        |
| 138       | 17.8 | 22.1  | 33.1#  |
| 277       | 28.3 | 17.0  | 25.4#  |

