

Data Path : Z:\HPCHEM1\BNA G\DATA\BG081316\  
 Data File : BG023699.D  
 Acq On : 13 Aug 2016 22:15  
 Operator : UM/SJ  
 Sample : H4388-01  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PR002-SS001-0612-01

Manual Integrations  
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 8/16/2016 6:59:32 PM

Quant Time: Aug 15 18:28:13 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080416.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Aug 13 06:38:14 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.11  | 152  | 109529   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.94 | 136  | 520288   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.79 | 164  | 339536   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.55 | 188  | 736596   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.88 | 240  | 744505   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.28 | 264  | 740969   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

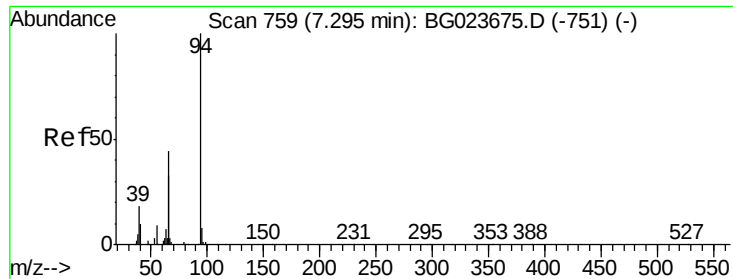
|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.48  | 96  | 8490    | 3.30  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.27  | 99  | 229485m | 20.80 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.43  | 67  | 150926  | 21.35 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.64  | 132 | 164371  | 21.84 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.82  | 113 | 166560  | 19.34 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.29  | 128 | 92735   | 22.61 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.02 | 143 | 109824  | 23.32 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.57 | 165 | 189807  | 21.36 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.09 | 131 | 124333  | 11.93 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.18 | 166 | 647634  | 23.30 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.48 | 160 | 773862  | 24.73 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.01 | 143 | 79111   | 16.67 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.78 | 176 | 584606  | 22.76 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.91 | 200 | 83370   | 17.64 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.65 | 188 | 814516  | 24.54 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.94 | 212 | 878131  | 23.30 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.05 | 264 | 821790  | 24.50 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |         |       | Ovalue |    |
|----------------------------|-------|-----|---------|-------|--------|----|
| 6) Phenol                  | 7.30  | 94  | 20640   | 1.80  | ng/ul# | 81 |
| 44) Dimethylphthalate      | 14.23 | 163 | 458257  | 16.65 | ng/ul  | 98 |
| 47) Acenaphthylene         | 14.51 | 152 | 114371  | 3.50  | ng/ul  | 98 |
| 58) Fluorene               | 15.84 | 166 | 50382   | 1.83  | ng/ul# | 90 |
| 69) Phenanthrene           | 17.59 | 178 | 956334  | 25.07 | ng/ul  | 99 |
| 71) Anthracene             | 17.69 | 178 | 123579  | 3.17  | ng/ul  | 98 |
| 72) Carbazole              | 17.96 | 167 | 36264   | 1.16  | ng/ul# | 95 |
| 74) Fluoranthene           | 19.61 | 202 | 1613995 | 41.33 | ng/ul# | 94 |
| 77) Pvrene                 | 19.98 | 202 | 1990312 | 43.24 | ng/ul# | 94 |
| 80) Benzo(a)anthracene     | 21.86 | 228 | 999223m | 23.83 | ng/ul  |    |
| 82) Chrysene               | 21.92 | 228 | 1112763 | 29.19 | ng/ul# | 94 |
| 85) Benzo(b)fluoranthene   | 24.20 | 252 | 1118086 | 26.53 | ng/ul# | 95 |
| 86) Benzo(k)fluoranthene   | 24.20 | 252 | 1118086 | 26.95 | ng/ul# | 91 |
| 88) Benzo(a)pyrene         | 25.13 | 252 | 889577m | 21.86 | ng/ul  |    |
| 89) Indeno(1,2,3-cd)pyrene | 29.18 | 276 | 568665m | 11.89 | ng/ul  |    |
| 90) Dibenzo(a,h)anthracene | 29.24 | 278 | 159087m | 3.90  | ng/ul  |    |
| 91) Benzo(g,h,i)perylene   | 30.42 | 276 | 494077  | 12.46 | ng/ul# | 87 |

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





#6

Phenol

Concen: 1.80 ng/ul

RT: 7.30 min Scan# 759

Delta R.T. 0.00 min

Lab File: BG023699.D

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Instrument :

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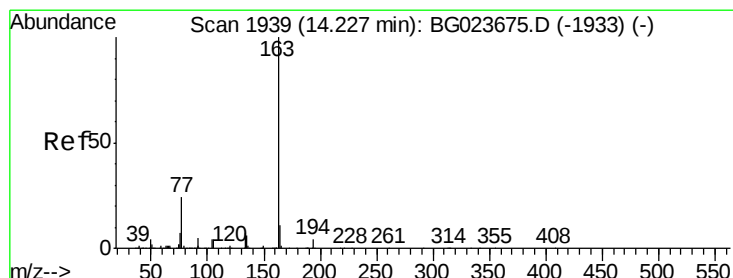
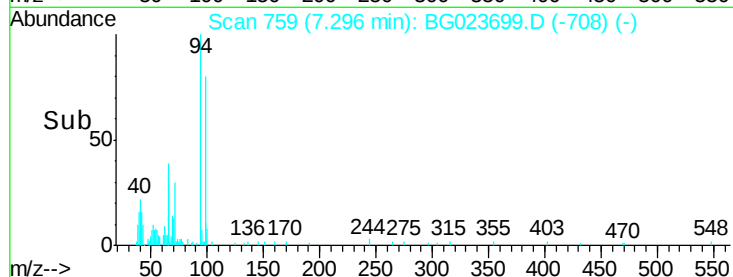
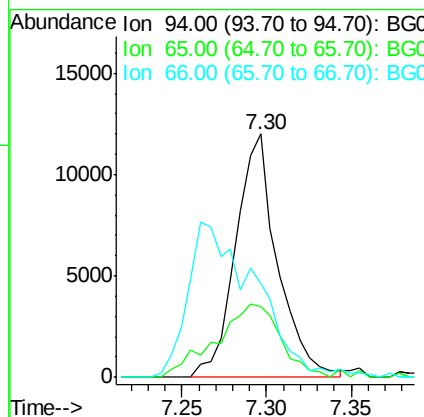
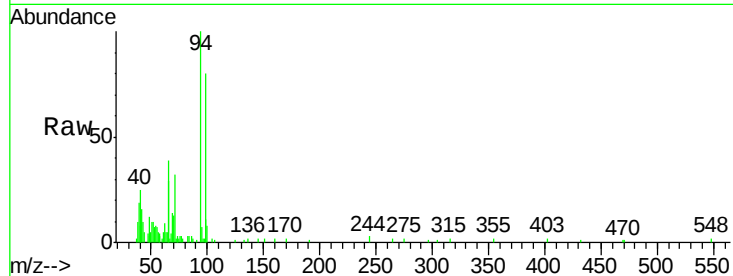
ClientSampleId :

PR002-SS001-0612-01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 94    | Resp: | 20640 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 29.3  | 16.8  | 25.2# |
| 66        | 38.7  | 22.6  | 33.8# |

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#44

Dimethylphthalate

Concen: 16.65 ng/ul

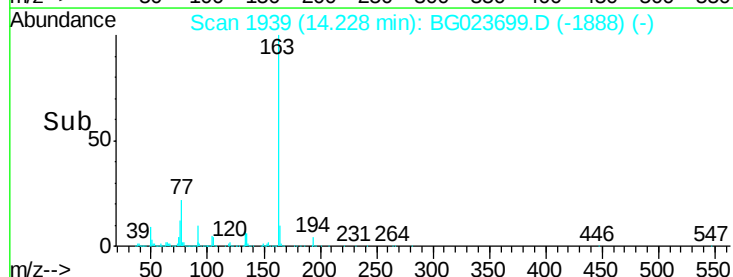
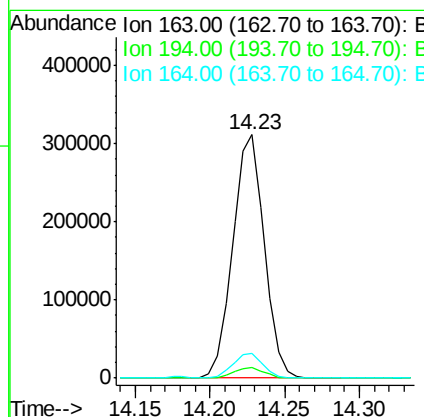
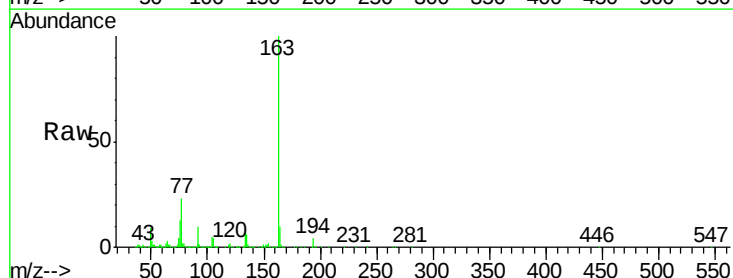
RT: 14.23 min Scan# 1939

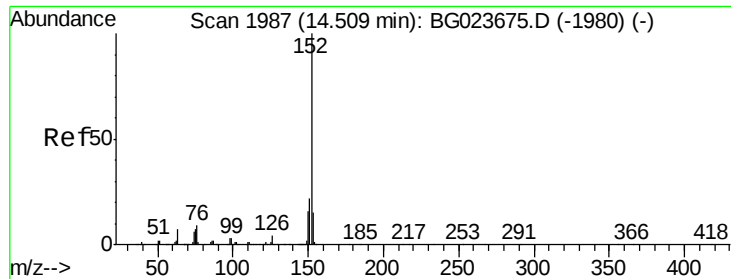
Delta R.T. 0.00 min

Lab File: BG023699.D

Acq: 13 Aug 2016 22:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 458257 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.3   | 3.4   | 5.2    |
| 164       | 10.1  | 8.8   | 13.2   |





#47

Acenaphthylene

Concen: 3.50 ng/ul

RT: 14.51 min Scan# 1987

Delta R.T. 0.00 min

Lab File: BG023699.D

Acq: 13 Aug 2016 22:15

Instrument :

BNA\_G

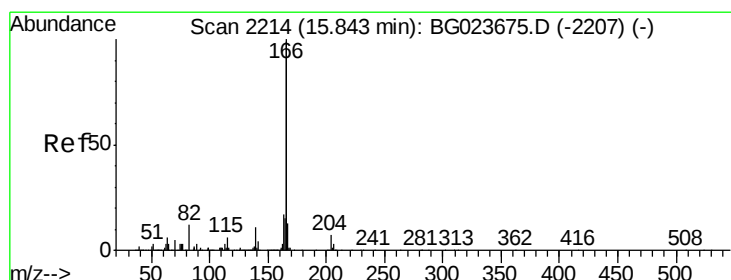
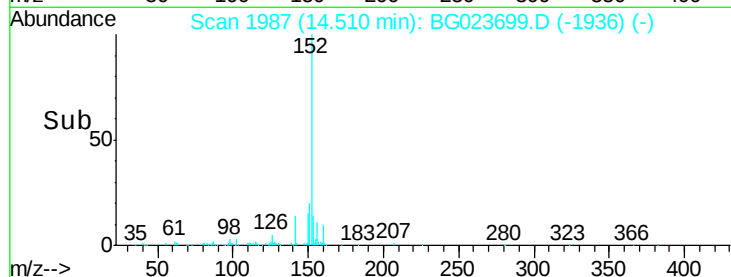
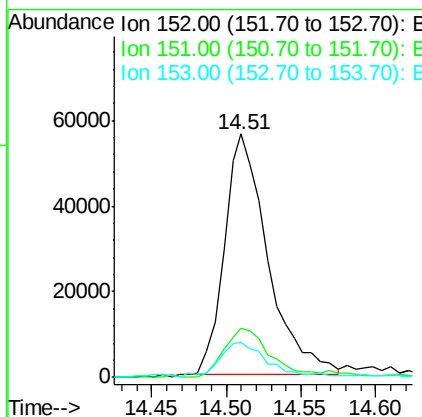
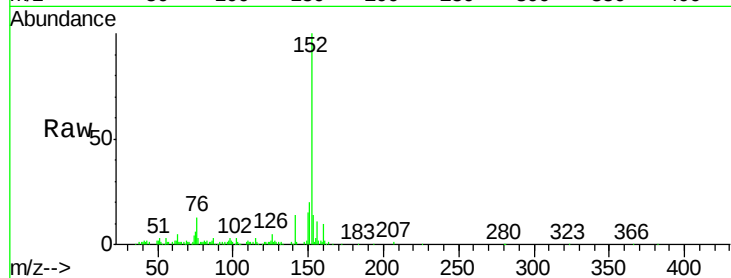
ClientSampleId :

PR002-SS001-0612-01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 114371 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 20.4  | 17.5  | 26.3   |
| 153       | 14.3  | 11.1  | 16.7   |

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#58

Fluorene

Concen: 1.83 ng/ul

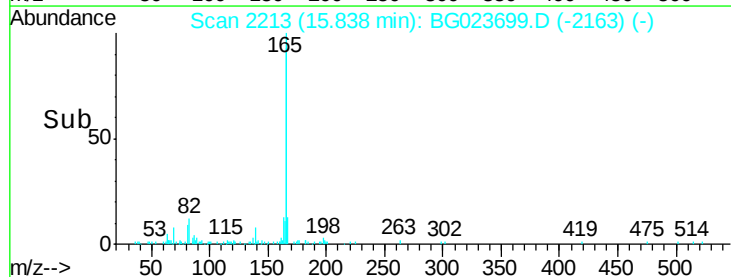
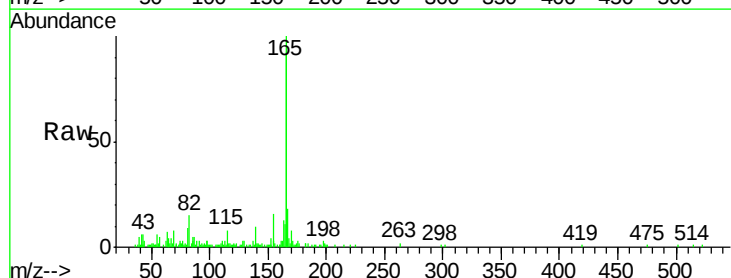
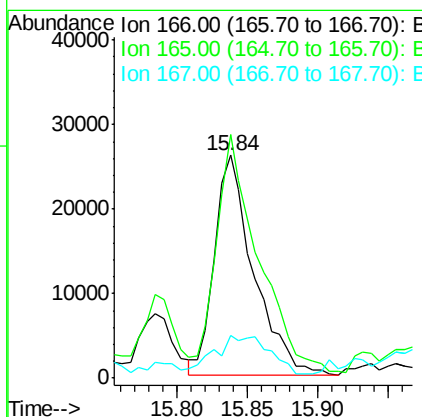
RT: 15.84 min Scan# 2213

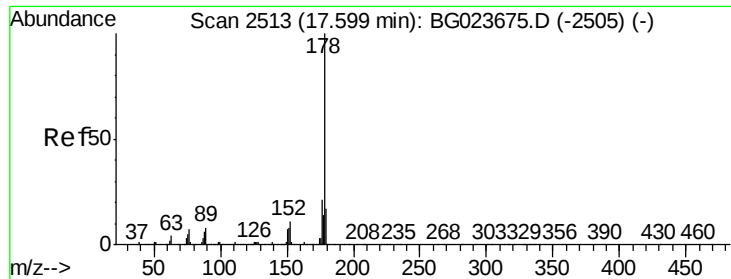
Delta R.T. -0.00 min

Lab File: BG023699.D

Acq: 13 Aug 2016 22:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 50382 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 109.2 | 80.3  | 120.5 |
| 167       | 19.2  | 10.3  | 15.5# |





#69

Phenanthrene

Concen: 25.07 ng/ul

RT: 17.59 min Scan# 2512

Delta R.T. -0.00 min

Lab File: BG023699.D

Acq: 13 Aug 2016 22:15

Instrument :

BNA\_G

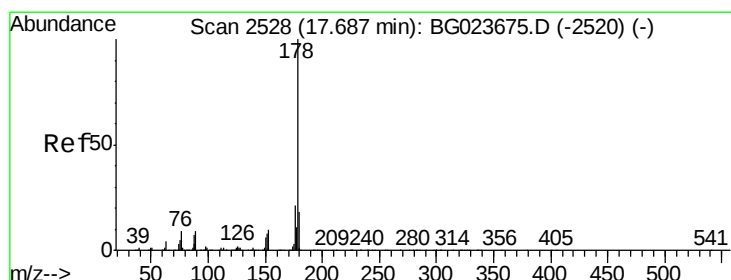
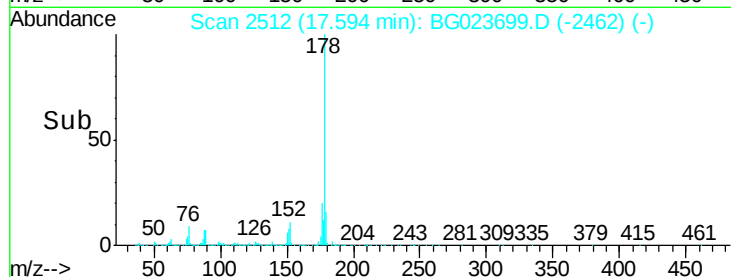
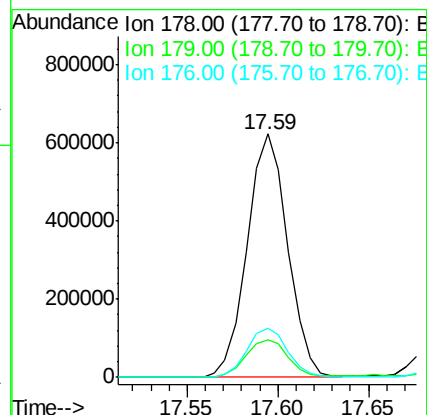
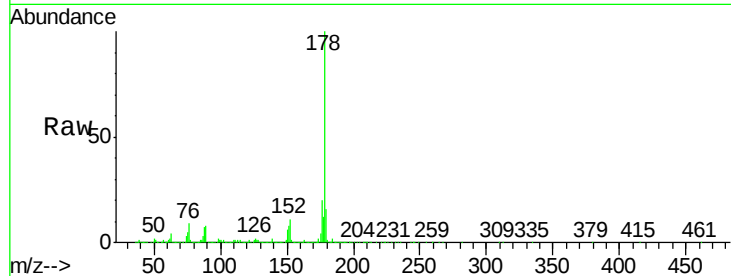
ClientSampleId :

PR002-SS001-0612-01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 956334 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.6  | 12.9  | 19.3   |
| 176       | 20.0  | 15.8  | 23.8   |

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#71

Anthracene

Concen: 3.17 ng/ul

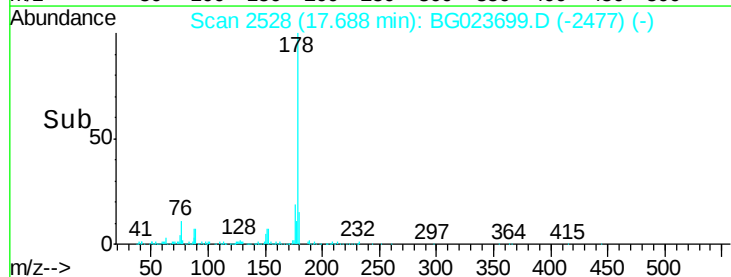
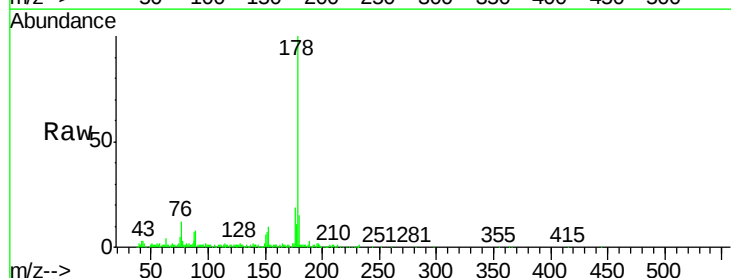
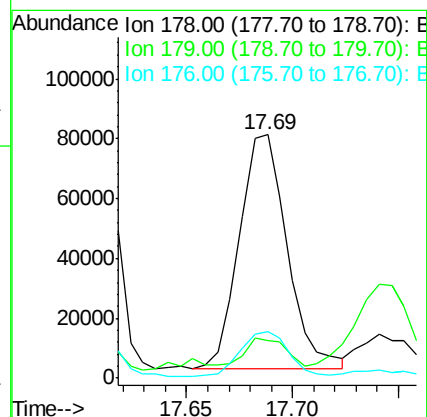
RT: 17.69 min Scan# 2528

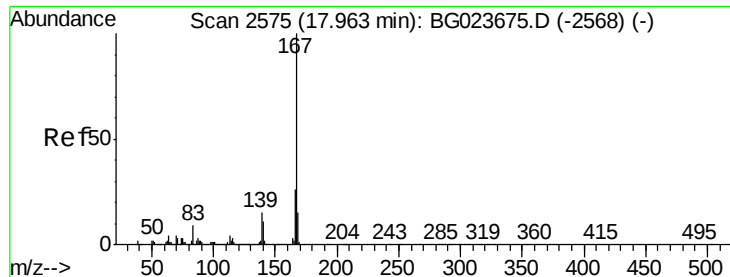
Delta R.T. 0.00 min

Lab File: BG023699.D

Acq: 13 Aug 2016 22:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 123579 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.4  | 12.3  | 18.5   |
| 176       | 18.9  | 16.3  | 24.5   |





#72

Carbazole

Concen: 1.16 ng/ul

RT: 17.96 min Scan# 2574

Delta R.T. -0.00 min

Lab File: BG023699.D

Acq: 13 Aug 2016 22:15

Instrument :

BNA\_G

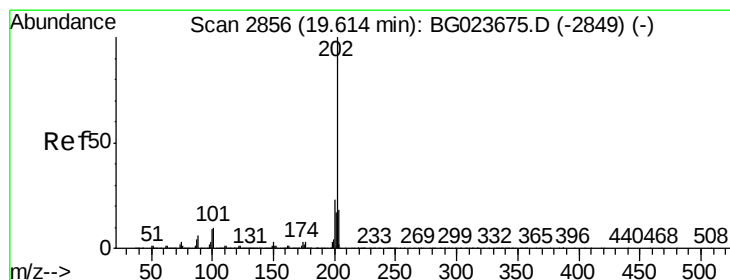
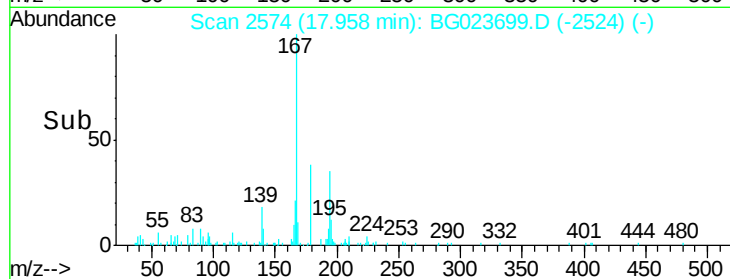
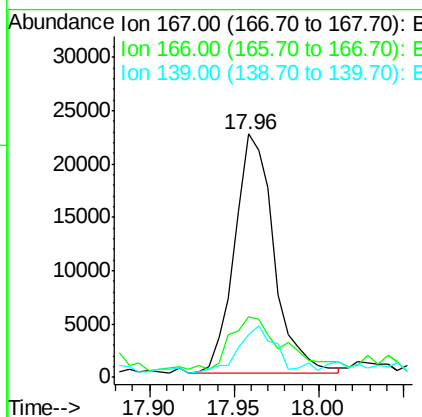
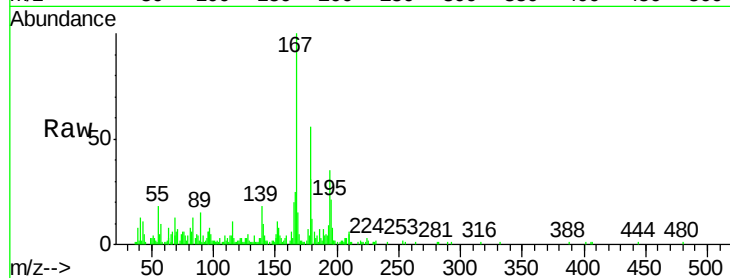
ClientSampleId :

PR002-SS001-0612-01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 167   | Resp: | 36264 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 24.8  | 19.2  | 28.8  |
| 139       | 17.5  | 10.2  | 15.4# |

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#74

Fluoranthene

Concen: 41.33 ng/ul

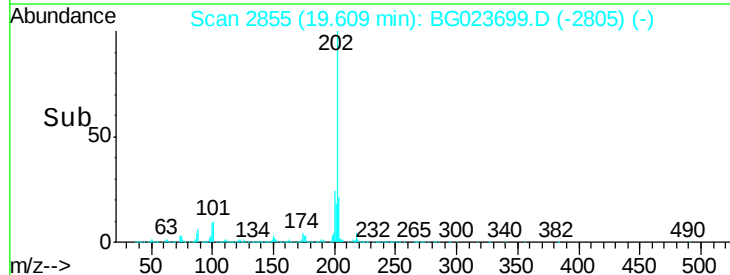
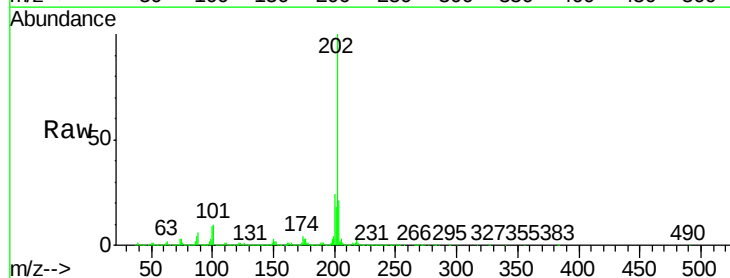
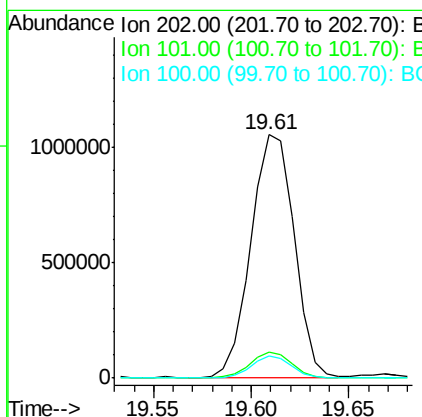
RT: 19.61 min Scan# 2855

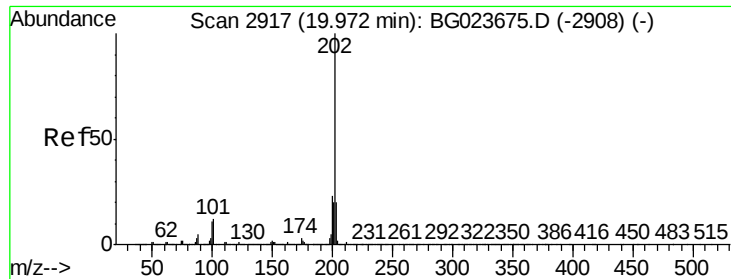
Delta R.T. -0.00 min

Lab File: BG023699.D

Acq: 13 Aug 2016 22:15

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1613995 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 10.4  | 10.6  | 16.0#   |
| 100       | 9.2   | 8.7   | 13.1    |





#77

Pvrene

Concen: 43.24 ng/ul

RT: 19.98 min Scan# 2918

Delta R.T. 0.01 min

Lab File: BG023699.D

Acq: 13 Aug 2016 22:15

Instrument :

BNA\_G

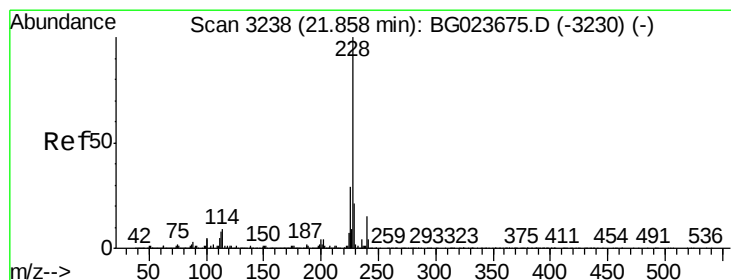
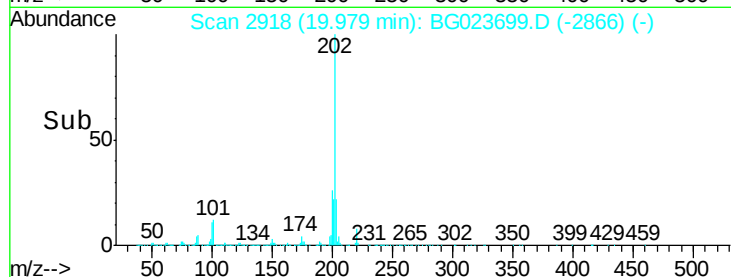
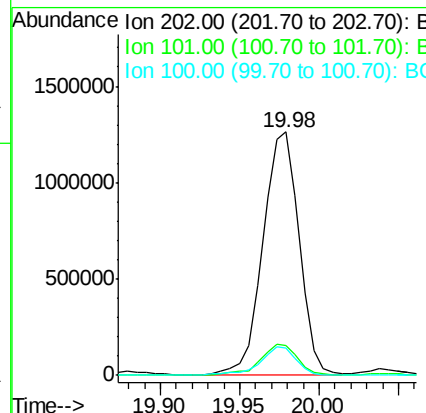
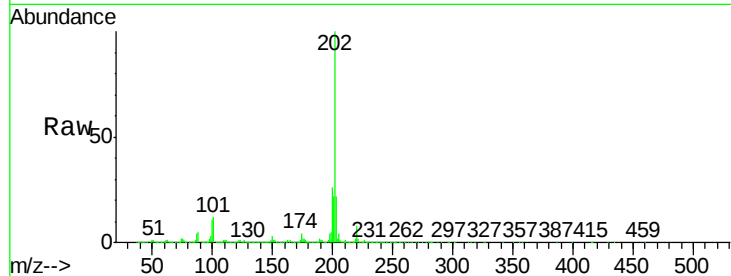
ClientSampleId :

PR002-SS001-0612-01

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 202   | Resp: | 1990312 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 12.2  | 12.5  | 18.7#   |
| 100       | 11.3  | 10.2  | 15.4    |

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#80

Benzo(a)anthracene

Concen: 23.83 ng/ul m

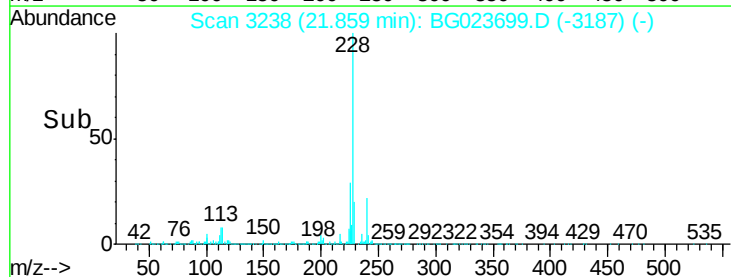
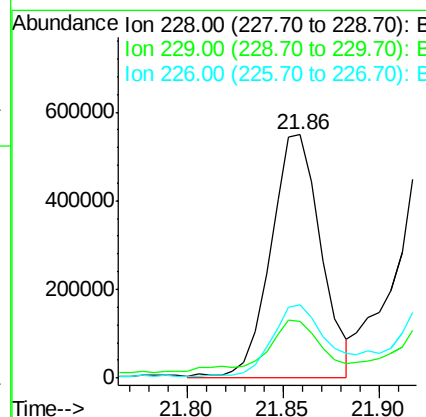
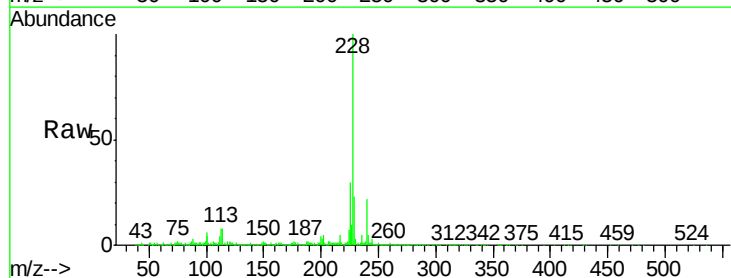
RT: 21.86 min Scan# 3238

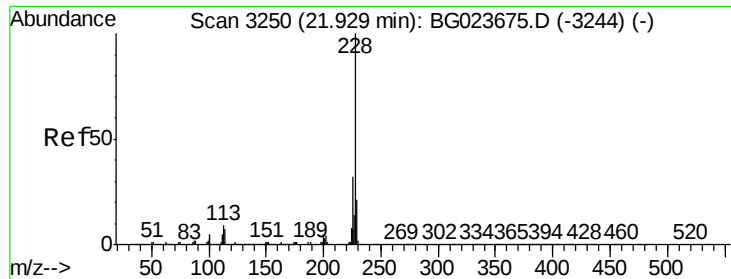
Delta R.T. 0.00 min

Lab File: BG023699.D

Acq: 13 Aug 2016 22:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 999223 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 23.3  | 15.4  | 23.2#  |
| 226       | 30.4  | 22.8  | 34.2   |





#82

Chrysene

Concen: 29.19 ng/ul

RT: 21.92 min Scan# 3249

Delta R.T. -0.00 min

Lab File: BG023699.D

Acq: 13 Aug 2016 22:15

Instrument :

BNA\_G

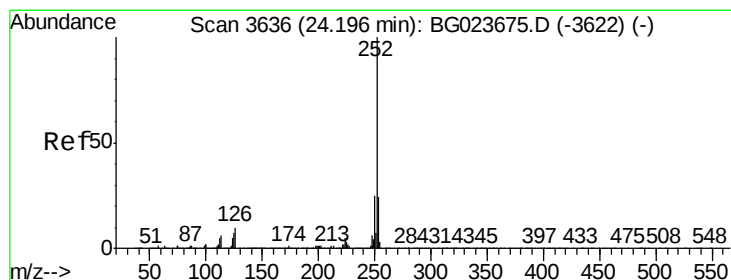
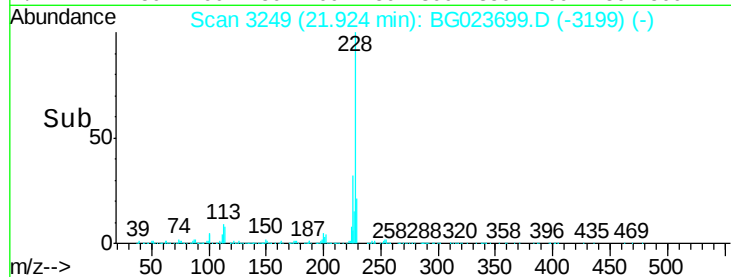
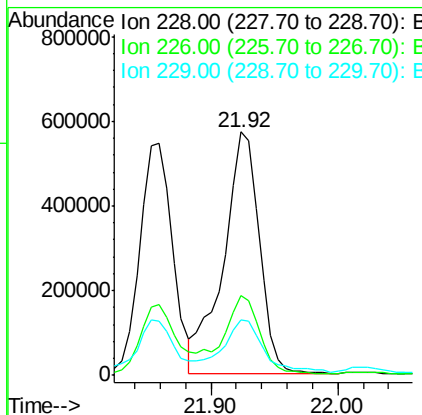
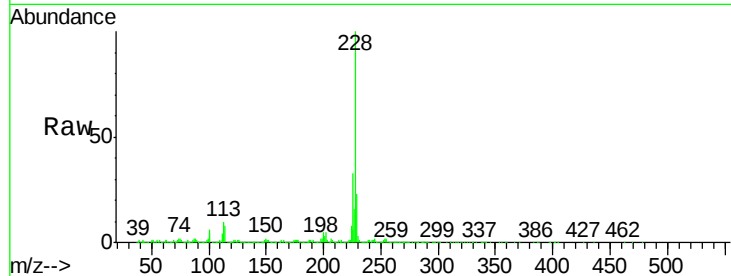
ClientSampleId :

PR002-SS001-0612-01

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 228   | Resp: | 1112763 |
| Ion      | Ratio | Lower | Upper   |
| 228      | 100   |       |         |
| 226      | 32.8  | 24.2  | 36.4    |
| 229      | 22.8  | 15.0  | 22.6#   |

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#85

Benzo(b)fluoranthene

Concen: 26.53 ng/ul

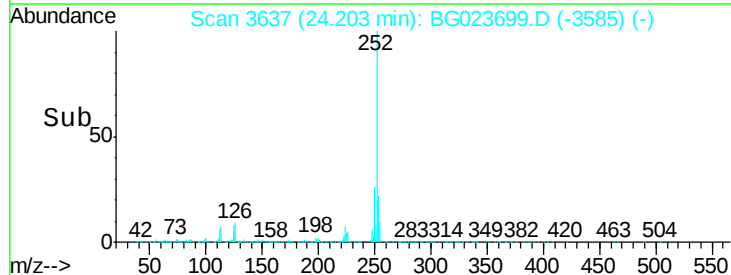
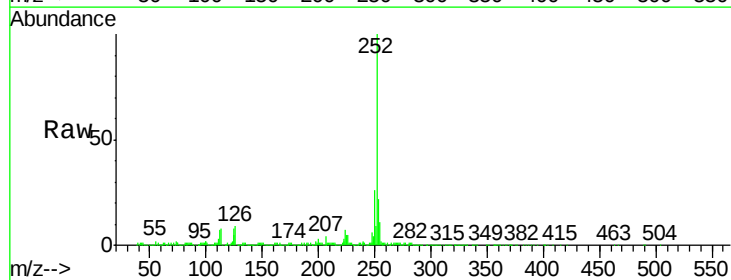
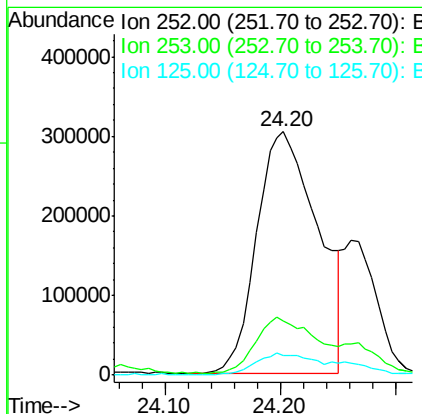
RT: 24.20 min Scan# 3637

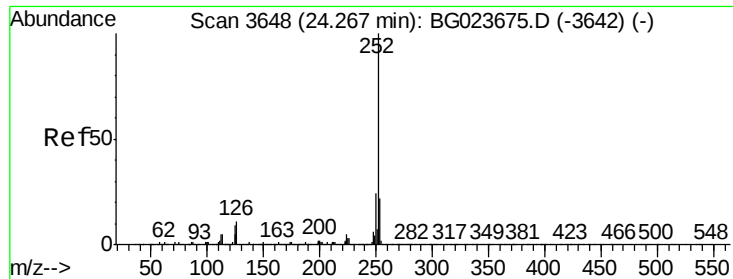
Delta R.T. 0.01 min

Lab File: BG023699.D

Acq: 13 Aug 2016 22:15

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 252   | Resp: | 1118086 |
| Ion      | Ratio | Lower | Upper   |
| 252      | 100   |       |         |
| 253      | 22.3  | 18.2  | 27.2    |
| 125      | 8.3   | 10.8  | 16.2#   |





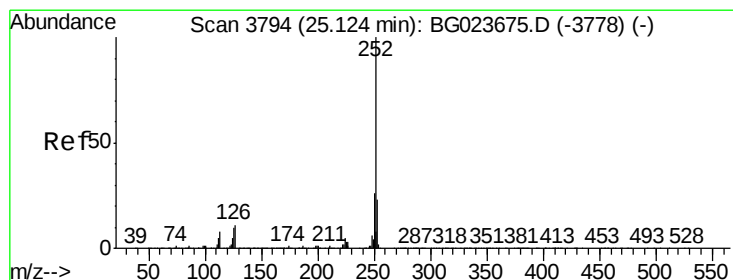
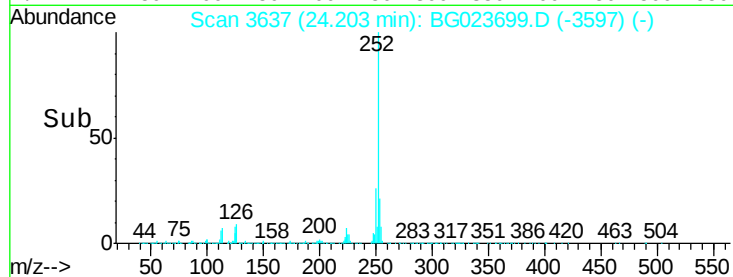
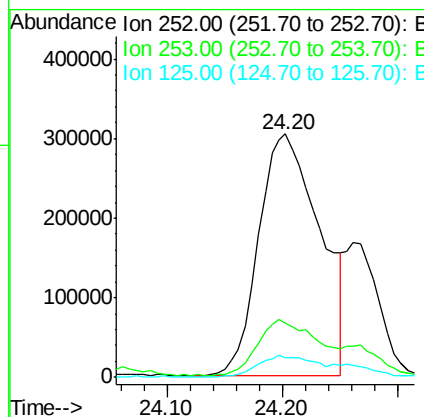
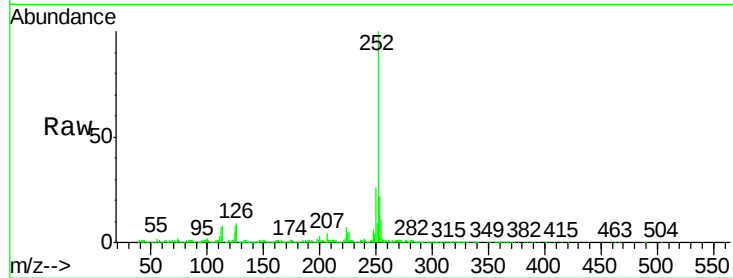
#86  
Benzo(k)fluoranthene  
Concen: 26.95 ng/ul  
RT: 24.20 min Scan# 3637  
Delta R.T. -0.06 min  
Lab File: BG023699.D  
Acq: 13 Aug 2016 22:15

Instrument :  
BNA\_G  
ClientSampleId :  
PR002-SS001-0612-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.3  | 15.8  | 23.6  |
| 125     | 8.3   | 10.6  | 16.0  |

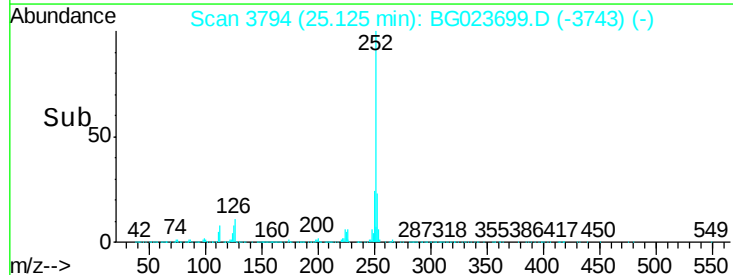
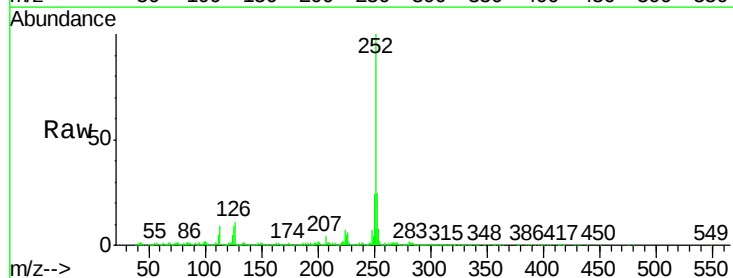
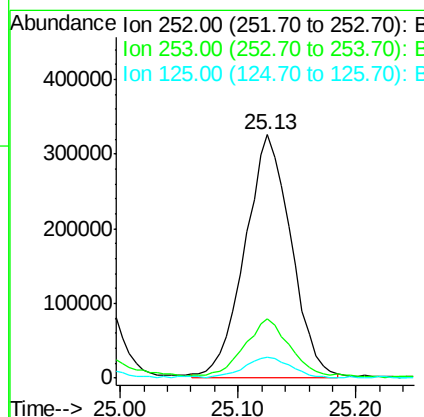
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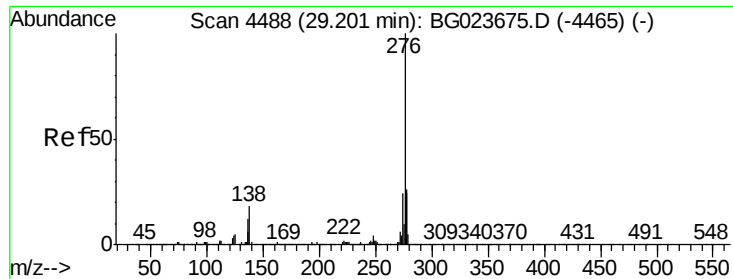
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#88  
Benzo(a)pyrene  
Concen: 21.86 ng/ul m  
RT: 25.13 min Scan# 3794  
Delta R.T. 0.00 min  
Lab File: BG023699.D  
Acq: 13 Aug 2016 22:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.5  | 19.0  | 28.4  |
| 125     | 8.7   | 12.0  | 18.0  |





#89

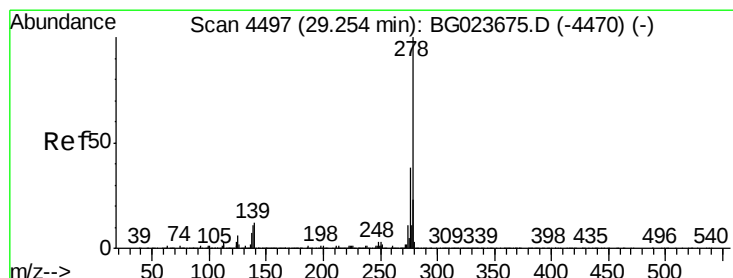
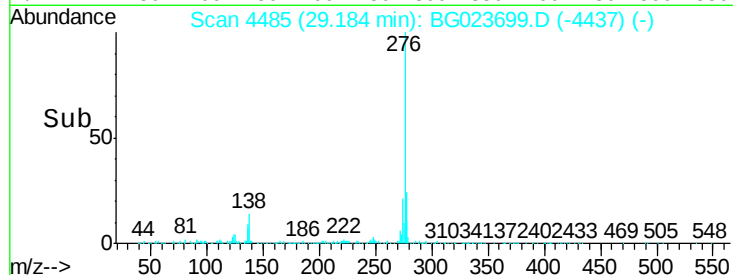
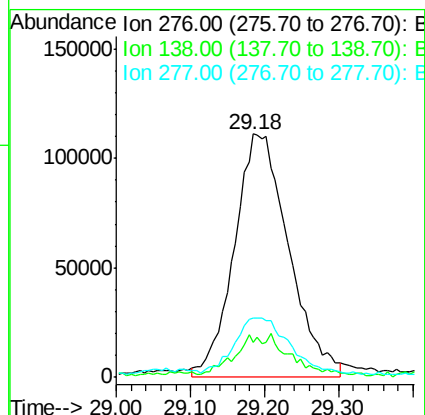
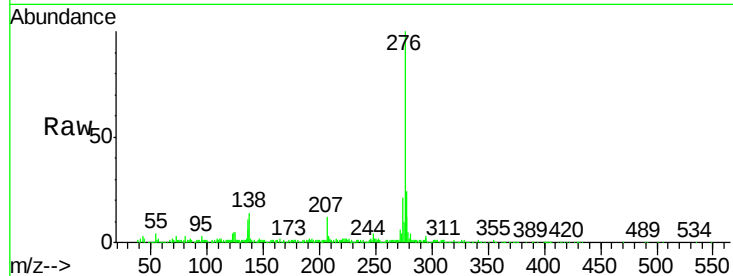
Indeno(1,2,3-cd)pyrene  
Concen: 11.89 ng/ul m  
RT: 29.18 min Scan# 4485  
Delta R.T. -0.02 min  
Lab File: BG023699.D  
Acq: 13 Aug 2016 22:15

Instrument :  
BNA\_G  
ClientSampleId :  
PR002-SS001-0612-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 14.3  | 20.8  | 31.2# |
| 277     | 24.4  | 17.6  | 26.4  |

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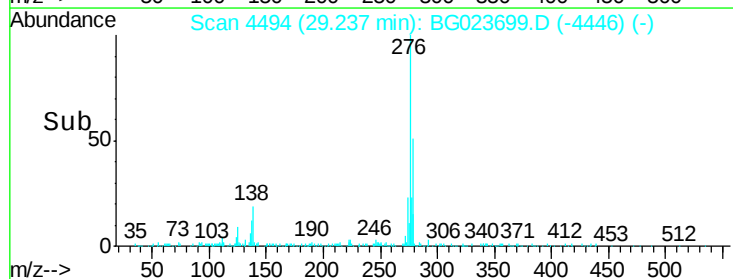
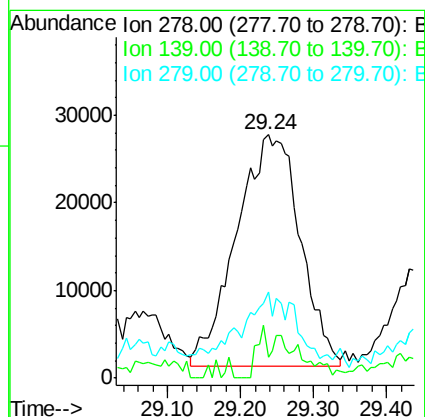
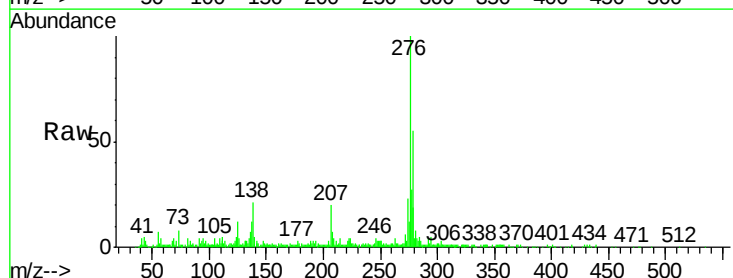
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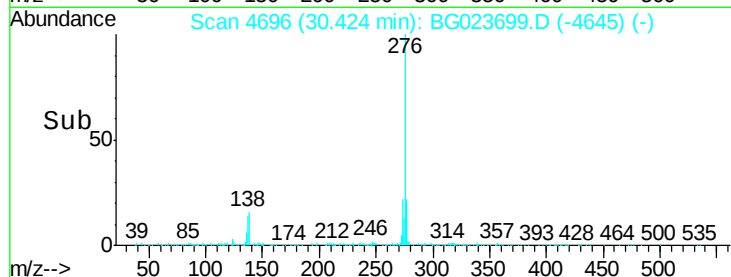
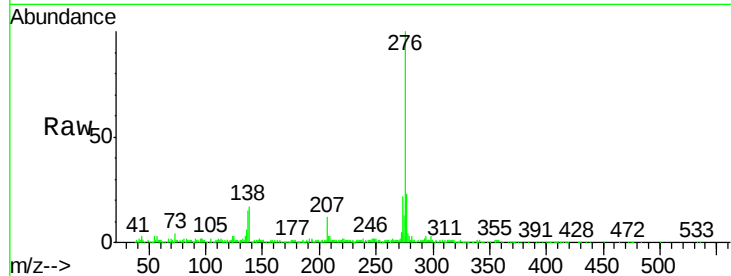
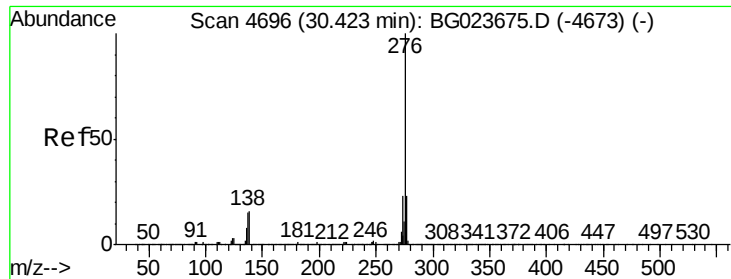


#90

Dibenzo(a,h)anthracene  
Concen: 3.90 ng/ul m  
RT: 29.24 min Scan# 4494  
Delta R.T. -0.02 min  
Lab File: BG023699.D  
Acq: 13 Aug 2016 22:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 8.5   | 16.3  | 24.5# |
| 279     | 35.5  | 19.1  | 28.7# |





#91  
 Benzo(a,h,i)perylene  
 Concen: 12.46 ng/ul  
 RT: 30.42 min Scan# 4696  
 Delta R.T. 0.00 min  
 Lab File: BG023699.D  
 Acq: 13 Aug 2016 22:15

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.0  | 22.1  | 33.1# |
| 277     | 23.1  | 17.0  | 25.4  |

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PR002-SS001-0612-01

Manual Integrations  
 APPROVED

umangi  
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