Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG070715\
Data File : BG017798.D
Acq On : 7 Jul 2015 18:15
Operator : TP/UM
Sample : G2860-20
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** G93K5

**Manual Integrations APPROVED**
apatel
7/9/2015 8:31:30 AM

Quant Time: Jul 08 05:12:30 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG070615.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Jul 08 04:54:17 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.60 | 152 | 48781 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.39 | 136 | 224465 | 20.00 | ng/ul | 0.00 |
| 35) Acenaphthene-d10 | 14.26 | 164 | 134955 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.01 | 188 | 250042 | 20.00 | ng/ul | 0.00 |
| 77) Chrysene-d12 | 21.23 | 240 | 324678 | 20.00 | ng/ul | 0.01 |
| 85) Perylene-d12 | 23.47 | 264 | 318616 | 20.00 | ng/ul | 0.03 |
| **System Monitoring Compounds** | | | | | | |
| 3) 1,4-Dioxane-d8 | 3.14 | 96 | 3626 | 2.94 | ng/uL | 0.00 |
| 5) Phenol-d5 | 6.78 | 99 | 91992 | 22.34 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d | 6.94 | 67 | 50378 | 20.41 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4 | 7.14 | 132 | 73611 | 20.89 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8 | 8.31 | 113 | 74623 | 22.15 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5 | 8.75 | 128 | 36865 | 21.95 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4 | 9.48 | 143 | 39289 | 23.42 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3 | 10.01 | 165 | 68685 | 21.45 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4 | 10.53 | 131 | 45748 | 10.51 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6 | 13.68 | 166 | 197239 | 22.08 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8 | 13.95 | 160 | 276641 | 22.98 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4 | 14.46 | 143 | 29380 | 16.40 | ng/ul | 0.00 |
| 57) Fluorene-d10 | 15.26 | 176 | 195025 | 21.40 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.39 | 200 | 12455 | 10.74 | ng/ul | 0.00 |
| 70) Anthracene-d10 | 17.11 | 188 | 274761 | 24.11 | ng/ul | 0.00 |
| 78) Pyrene-d10 | 19.42 | 212 | 311419 | 20.18 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12 | 23.32 | 264 | 342540 | 24.42 | ng/ul | 0.03 |
| **Target Compounds** | | | | | | Qvalue |
| 14) Acetophenone | 8.42 | 105 | 14776 | 2.98 | ng/ul# | 84 |
| 28) Naphthalene | 10.43 | 128 | 259196 | 22.32 | ng/ul | 99 |
| 34) 2-Methylnaphthalene | 12.06 | 142 | 139097 | 16.88 | ng/ul | 91 |
| 40) 1,1'-Biphenyl | 13.09 | 154 | 40423 | 4.04 | ng/ul# | 93 |
| 44) Dimethylphthalate | 13.72 | 163 | 76720 | 7.73 | ng/ul | 98 |
| 47) Acenaphthylene | 13.98 | 152 | 266221 | 20.23 | ng/ul | 99 |
| 49) Acenaphthene | 14.32 | 153 | 69771 | 7.87 | ng/ul | 94 |
| 53) Dibenzofuran | 14.66 | 168 | 87381 | 7.31 | ng/ul | 95 |
| 58) Fluorene | 15.32 | 166 | 274911 | 25.89 | ng/ul# | 98 |
| 69) Phenanthrene | 17.06 | 178 | 2476616 | 181.22 | ng/ul# | 85 |
| 71) Anthracene | 17.15 | 178 | 500194 | 35.59 | ng/ul | 99 |
| 74) Carbazole | 17.42 | 167 | 37744 | 3.22 | ng/ul# | 55 |
| 76) Fluoranthene | 19.09 | 202 | 2652782 | 201.47 | ng/ul# | 88 |
| 79) Pyrene | 19.46 | 202 | 3768319 | 190.19 | ng/ul# | 63 |
| 82) Benzo(a)anthracene | 21.21 | 228 | 1951124 | 109.06 | ng/ul# | 75 |
| 84) Chrysene | 21.26 | 228 | 1988139 | 117.33 | ng/ul# | 84 |
| 87) Benzo(b)fluoranthene | 22.80 | 252 | 2337035 | 128.33 | ng/ul# | 87 |
| 88) Benzo(k)fluoranthene | 22.84 | 252 | 616565m | 35.92 | ng/ul | |
| 90) Benzo(a)pyrene | 23.38 | 252 | 2126537 | 122.87 | ng/ul | 93 |
| 91) Indeno(1,2,3-cd)pyrene | 25.75 | 276 | 1069065 | 56.57 | ng/ul | 96 |
| 92) Dibenzo(a,h)anthracene | 25.75 | 278 | 265348 | 16.63 | ng/ul# | 77 |
| 93) Benzo(g,h,i)perylene | 26.45 | 276 | 1172843 | 74.20 | ng/ul | 96 |

Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG070715\
Data File : BG017798.D
Acq On : 7 Jul 2015 18:15
Operator : TP/UM
Sample : G2860-20
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
G93K5

**Manual Integrations APPROVED**
apatel
7/9/2015 8:31:30 AM

Quant Time: Jul 08 05:12:30 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG070615.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Jul 08 04:54:17 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG070715\
Data File : BG017798.D
Acq On : 7 Jul 2015 18:15
Operator : TP/UM
Sample : G2860-20
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 08 05:12:30 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG070615.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Jul 08 04:54:17 2015
Response via : Initial Calibration

**Instrument :**
BNA_G
**ClientSampleId :**
G93K5

**Manual Integrations APPROVED**
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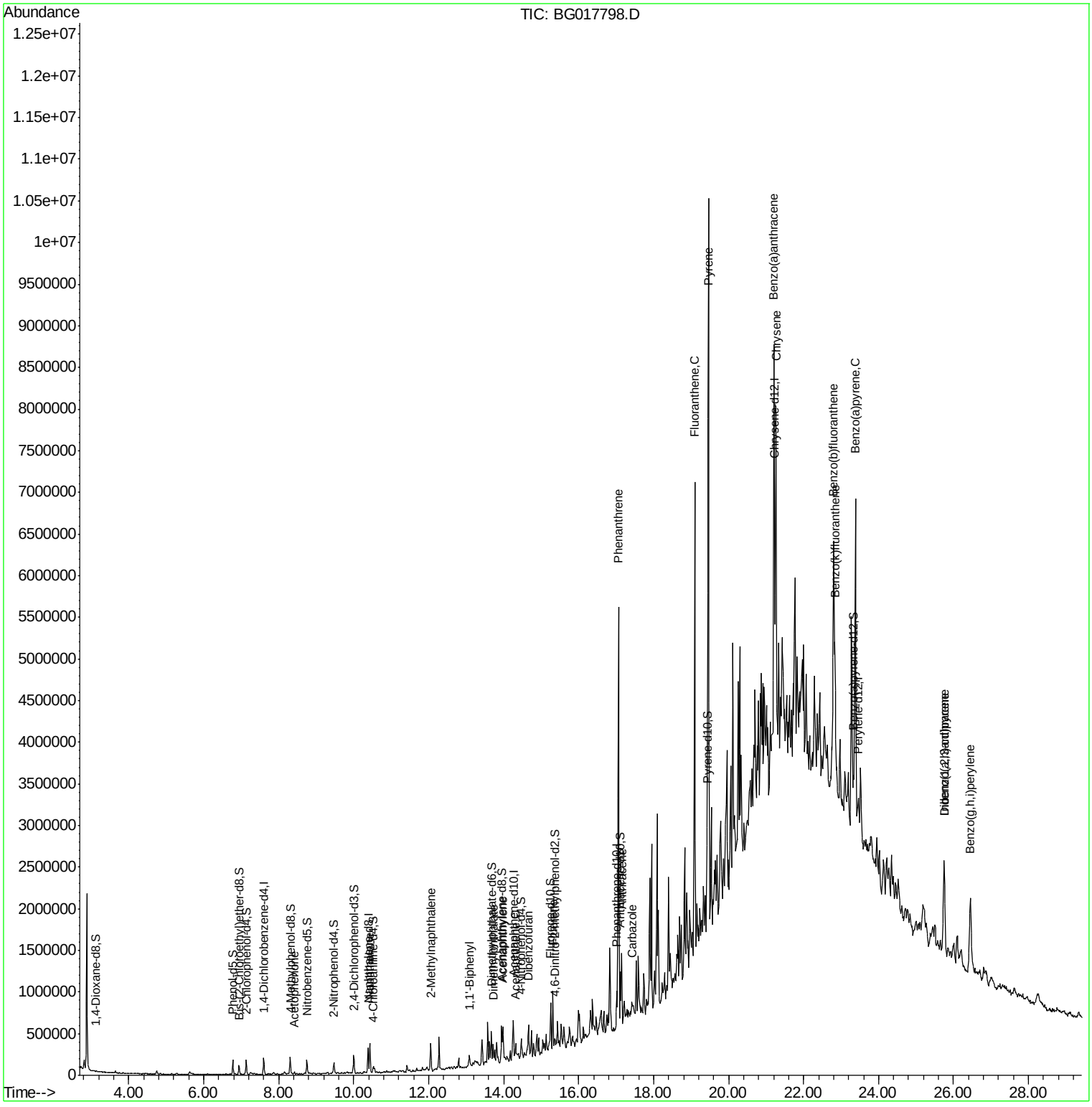
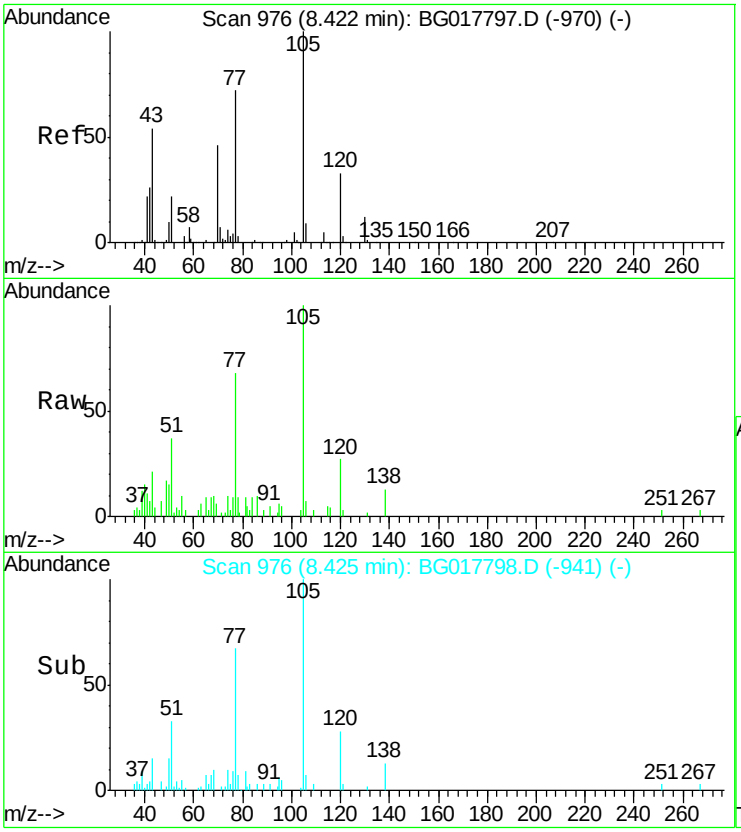
7/9/2015 8:31:30 AM

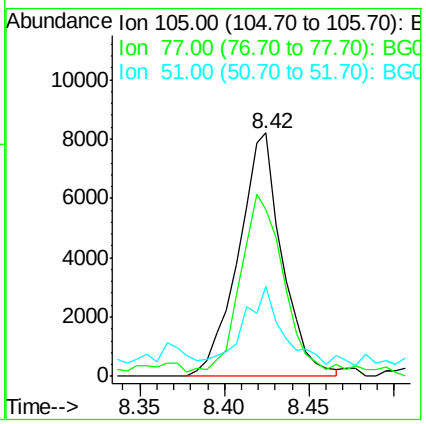





#14
Acetophenone
Concen: 2.98 ng/ul
RT: 8.42 min Scan# 976
Delta R.T. 0.00 min
Lab File: BG017798.D
Acq: 7 Jul 2015 18:15

Tgt Ion:105 Resp: 14776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 77 | 68.3 | 69.5 | 104.3# |
| 51 | 36.9 | 26.7 | 40.1 |




**Instrument :**
BNA_G
**ClientSampleId :**
G93K5

**Manual Integrations APPROVED**
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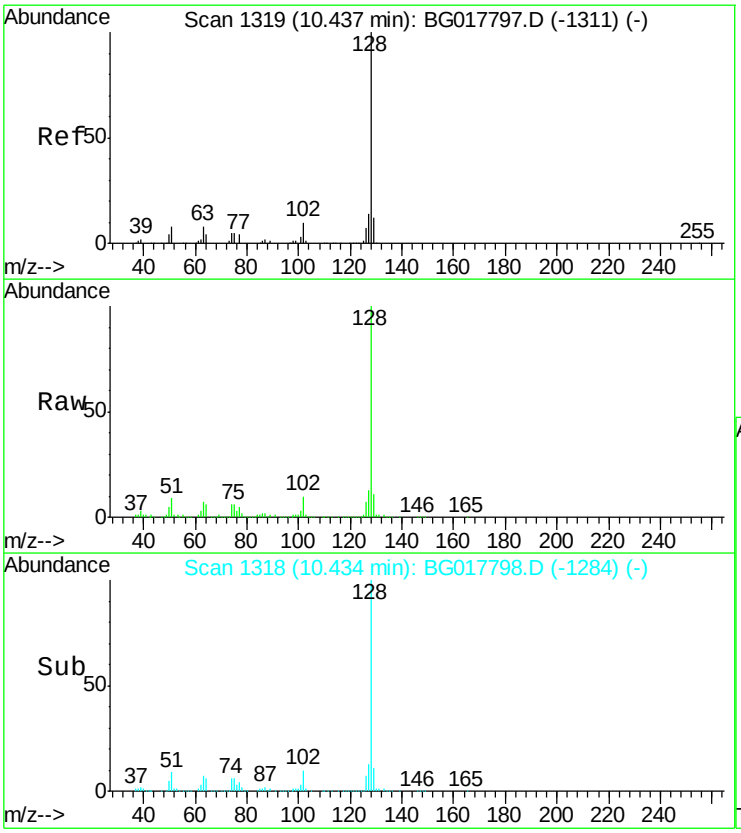
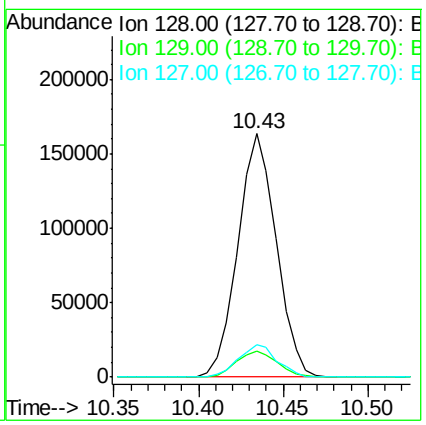
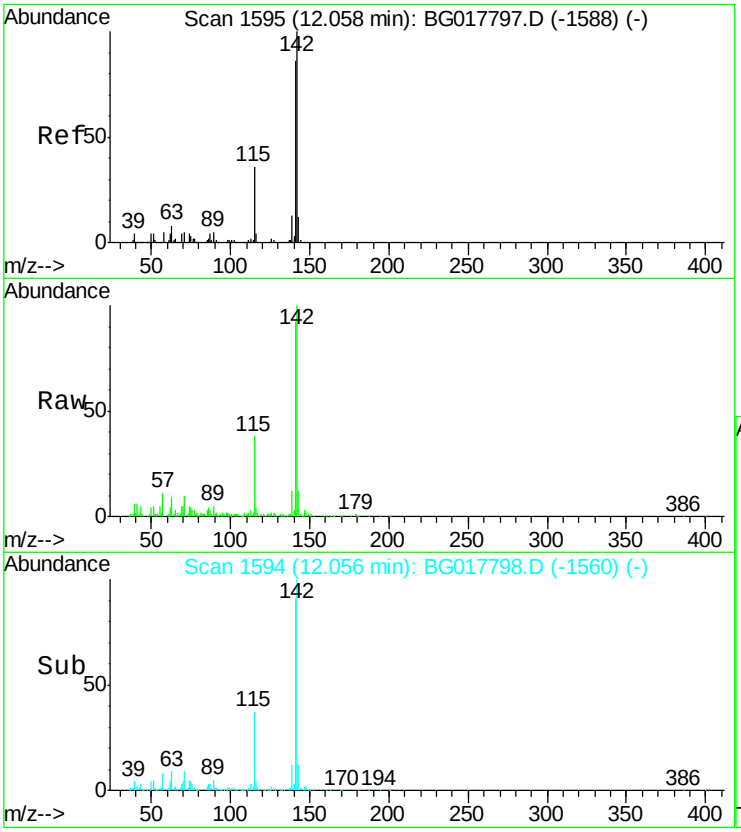



#28
Naphthalene
Concen: 22.32 ng/ul
RT: 10.43 min Scan# 1318
Delta R.T. -0.00 min
Lab File: BG017798.D
Acq: 7 Jul 2015 18:15

Tgt Ion:128 Resp: 259196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.9 | 8.7 | 13.1 |
| 127 | 13.1 | 11.0 | 16.6 |






#34
2-Methylnaphthalene
Concen: 16.88 ng/ul
RT: 12.06 min Scan# 1594
Delta R.T. -0.00 min
Lab File: BG017798.D
Acq: 7 Jul 2015 18:15

Tgt Ion:142 Resp: 139097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.6 | 66.6 | 100.0 |

**Instrument :**
BNA_G
**ClientSampleId :**
G93K5

**Manual Integrations APPROVED**
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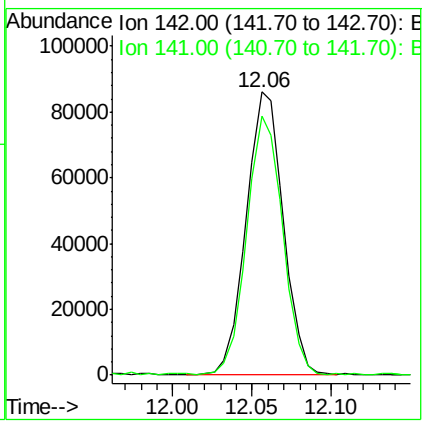
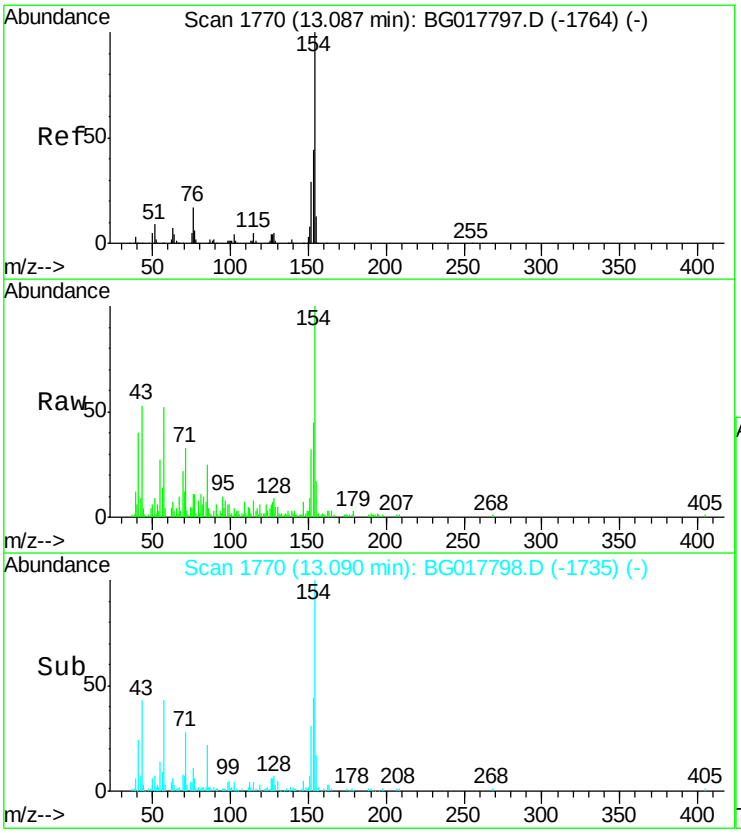
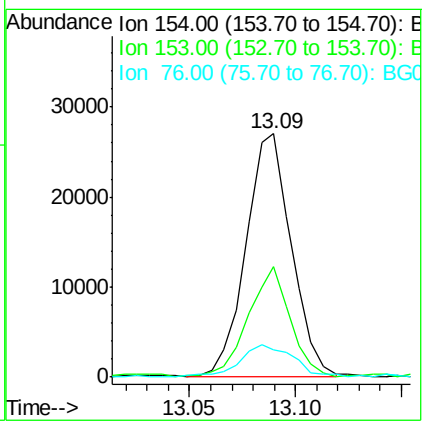


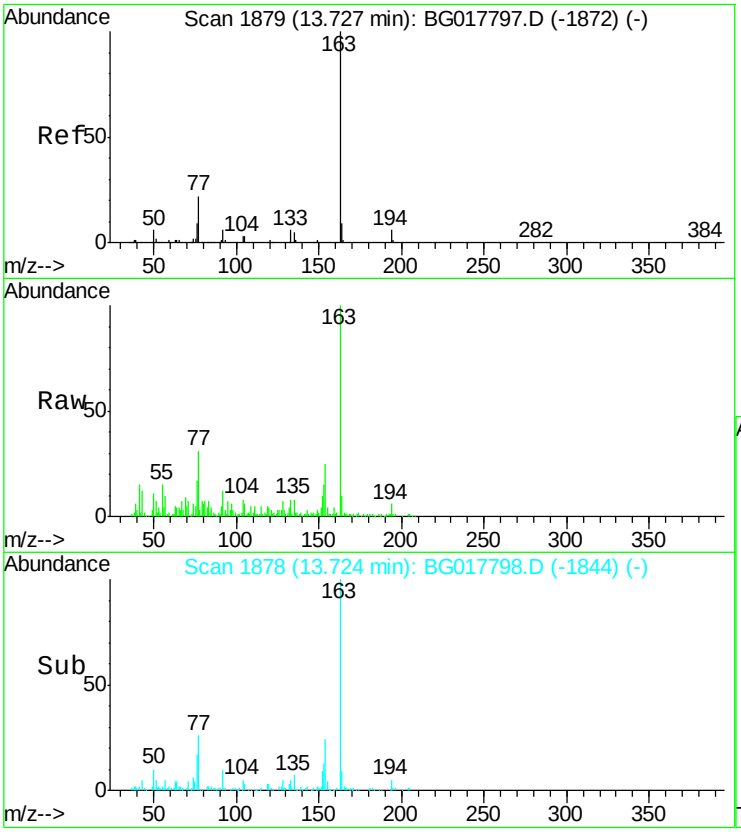




#40
1,1'-Biphenyl
Concen: 4.04 ng/ul
RT: 13.09 min Scan# 1770
Delta R.T. 0.00 min
Lab File: BG017798.D
Acq: 7 Jul 2015 18:15

Tgt Ion:154 Resp: 40423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 45.2 | 33.3 | 49.9 |
| 76 | 11.0 | 12.4 | 18.6# |

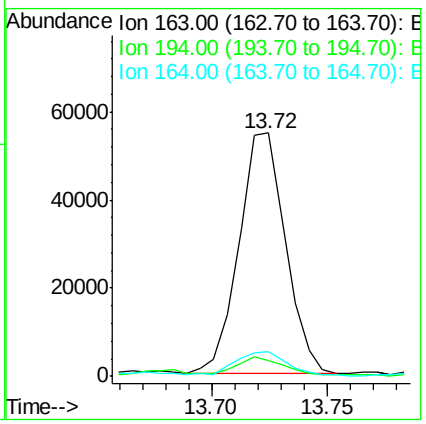





#44
Dimethylphthalate
Concen: 7.73 ng/ul
RT: 13.72 min Scan# 1878
Delta R.T. -0.00 min
Lab File: BG017798.D
Acq: 7 Jul 2015 18:15

Tgt Ion:163 Resp: 76720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 6.3 | 5.4 | 8.0 |
| 164 | 10.3 | 7.7 | 11.5 |




**Instrument :**
BNA_G
**ClientSampleId :**
G93K5

**Manual Integrations APPROVED**
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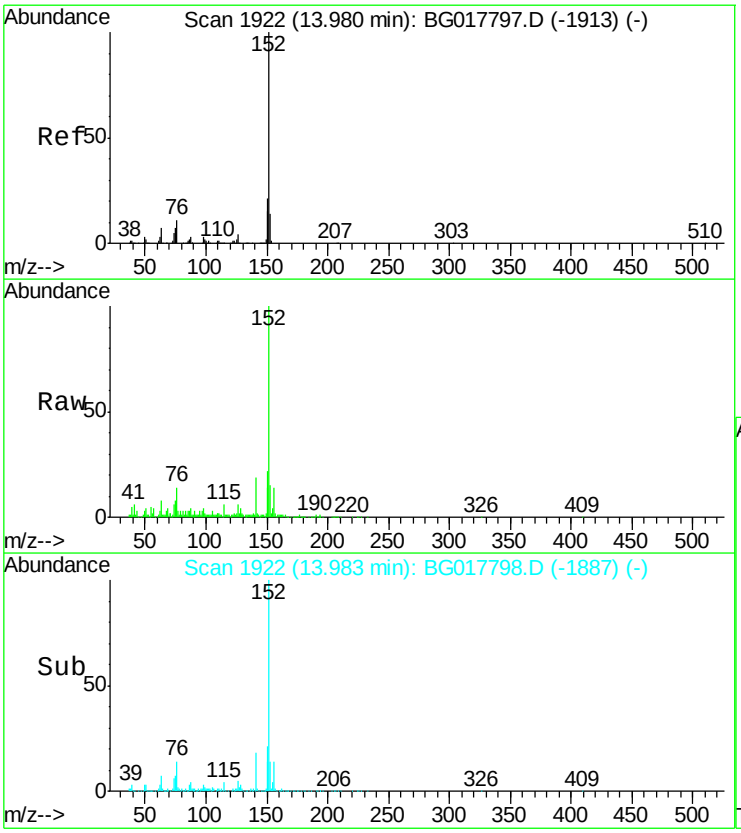
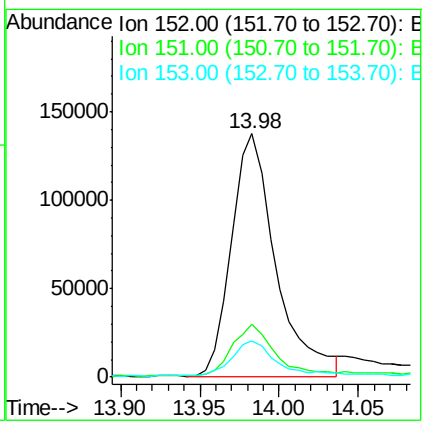
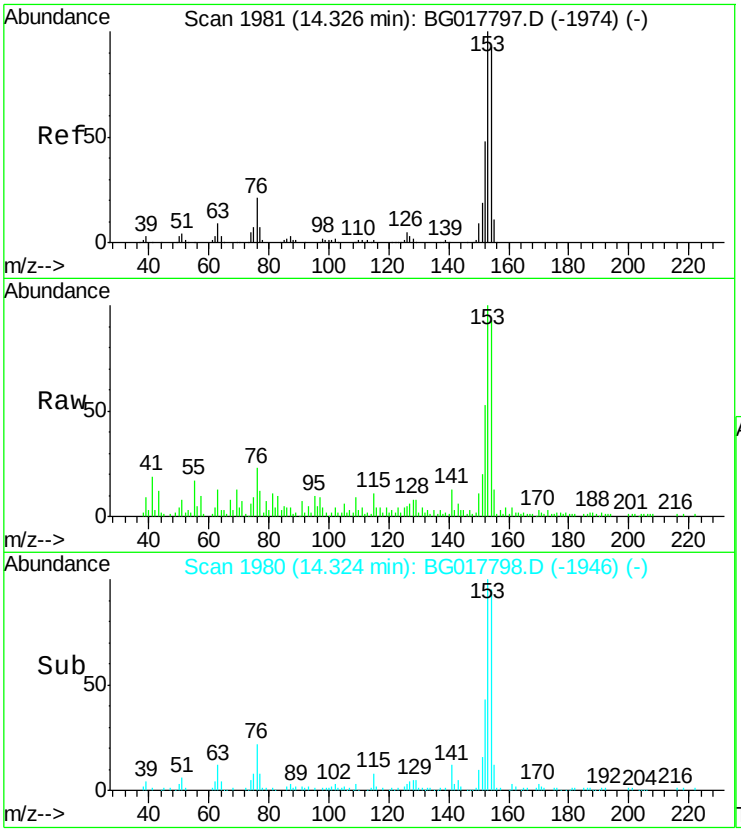



#47
Acenaphthylene
Concen: 20.23 ng/ul
RT: 13.98 min Scan# 1922
Delta R.T. 0.00 min
Lab File: BG017798.D
Acq: 7 Jul 2015 18:15

Tgt Ion:152 Resp: 266221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.6 | 17.0 | 25.6 |
| 153 | 14.6 | 11.2 | 16.8 |

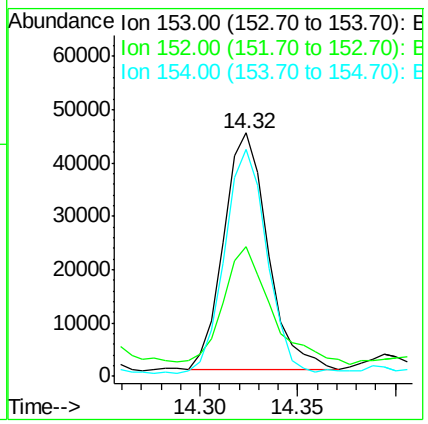





#49
Acenaphthene
Concen: 7.87 ng/ul
RT: 14.32 min Scan# 1980
Delta R.T. -0.00 min
Lab File: BG017798.D
Acq: 7 Jul 2015 18:15

Tgt Ion:153 Resp: 69771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 153 | 100 | | |
| 152 | 53.1 | 37.8 | 56.6 |
| 154 | 93.3 | 71.2 | 106.8 |




**Instrument :**
BNA_G
**ClientSampleId :**
G93K5

**Manual Integrations APPROVED**
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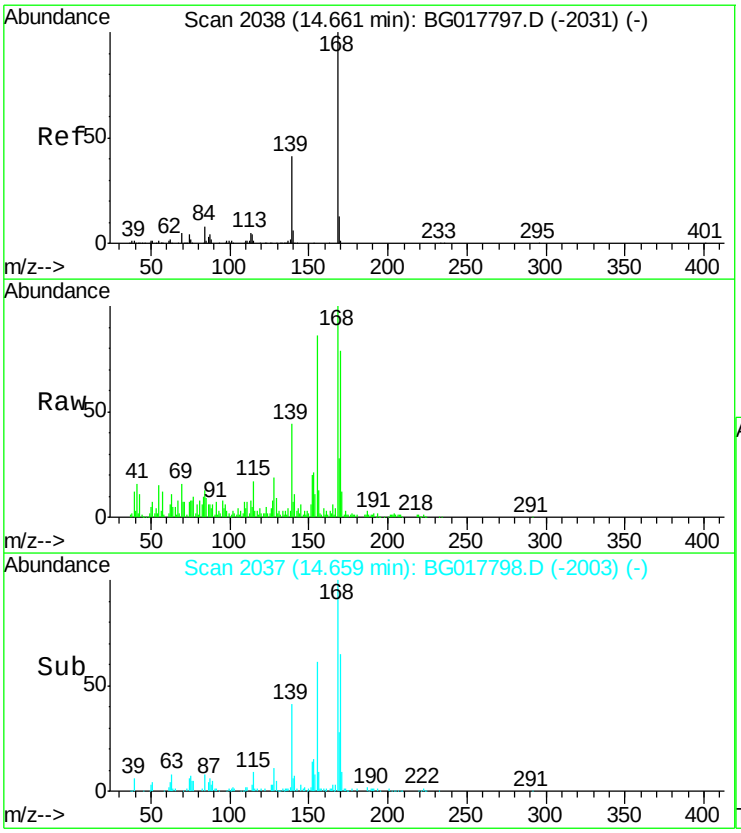
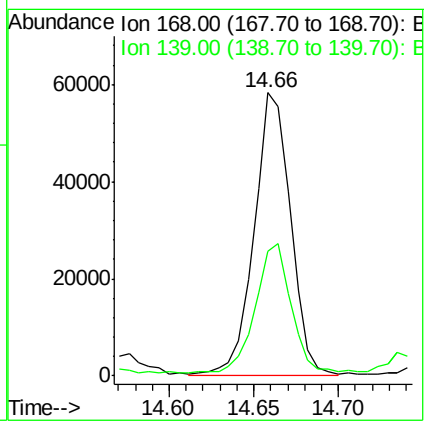
7/9/2015 8:31:30 AM

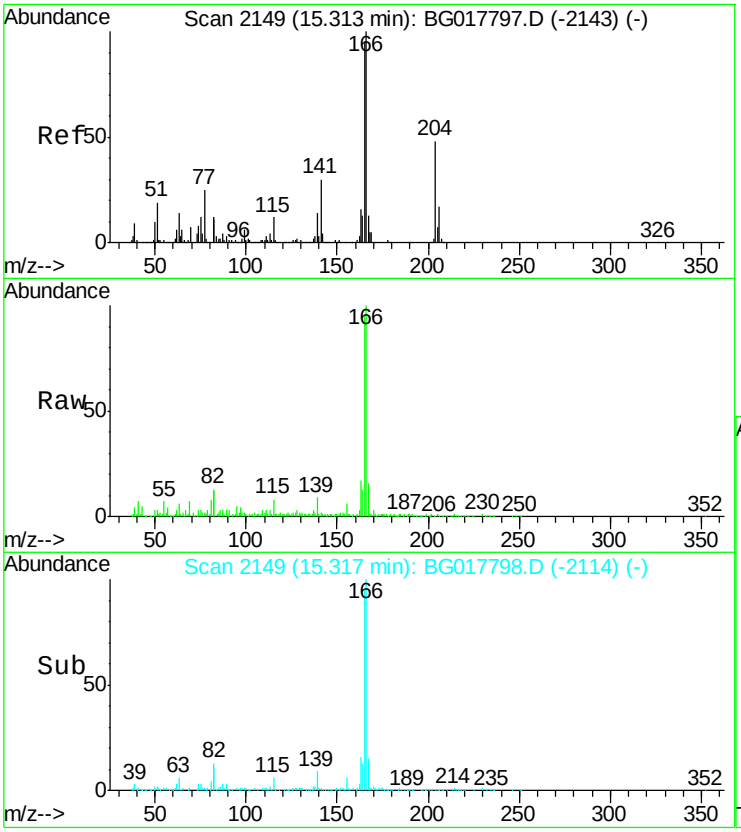



#53
Dibenzofuran
Concen: 7.31 ng/ul
RT: 14.66 min Scan# 2037
Delta R.T. -0.00 min
Lab File: BG017798.D
Acq: 7 Jul 2015 18:15

Tgt Ion:168 Resp: 87381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 44.2 | 32.7 | 49.1 |






#58
Fluorene
Concen: 25.89 ng/ul
RT: 15.32 min Scan# 2149
Delta R.T. 0.00 min
Lab File: BG017798.D
Acq: 7 Jul 2015 18:15

Tgt Ion:166 Resp: 274911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 95.4 | 75.7 | 113.5 |
| 167 | 15.5 | 10.1 | 15.1# |

**Instrument :**
BNA_G
**ClientSampleId :**
G93K5

**Manual Integrations APPROVED**
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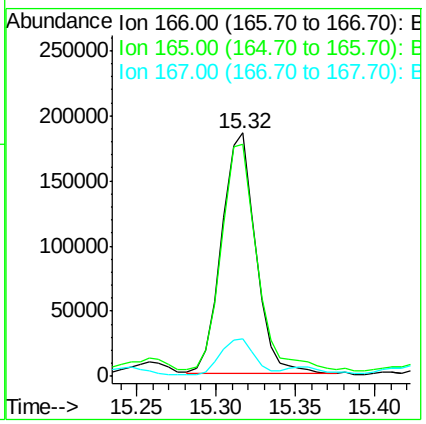
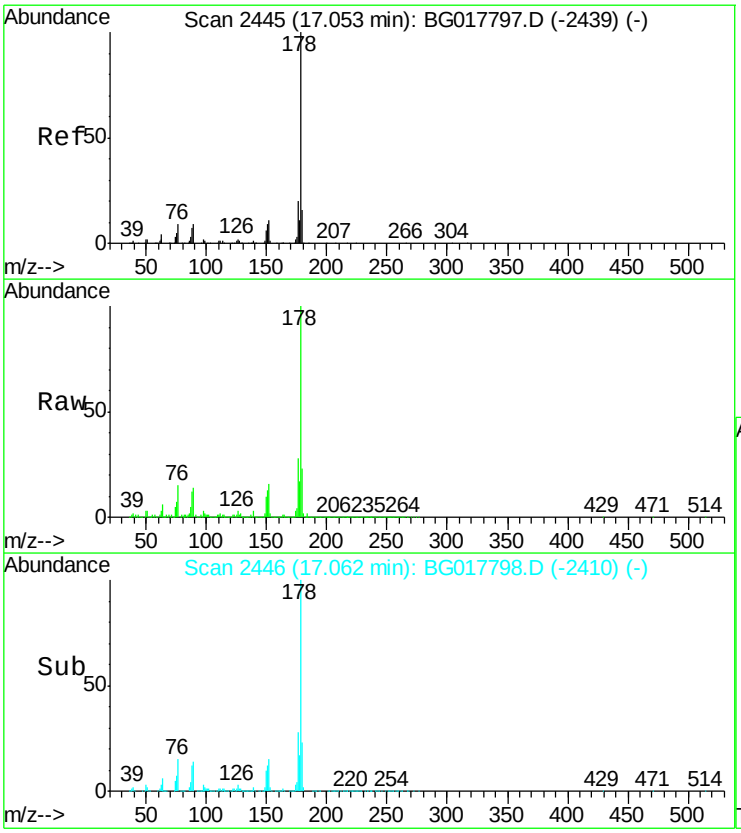
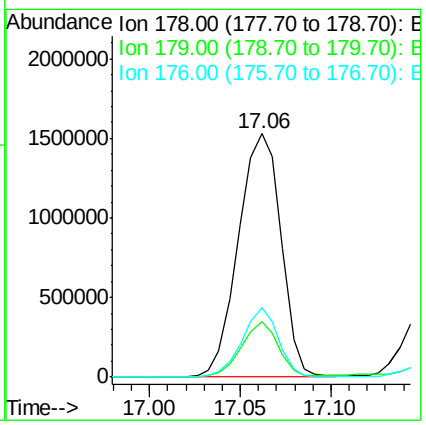


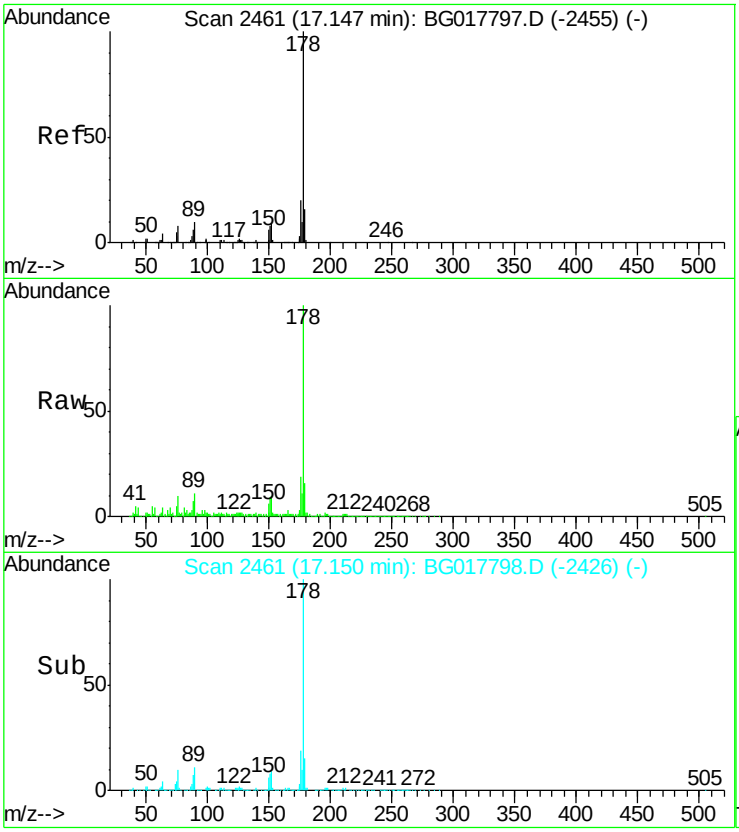




#69
Phenanthrene
Concen: 181.22 ng/ul
RT: 17.06 min Scan# 2446
Delta R.T. 0.01 min
Lab File: BG017798.D
Acq: 7 Jul 2015 18:15

Tgt Ion:178 Resp: 2476616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 22.9 | 13.0 | 19.4# |
| 176 | 28.3 | 17.0 | 25.4# |

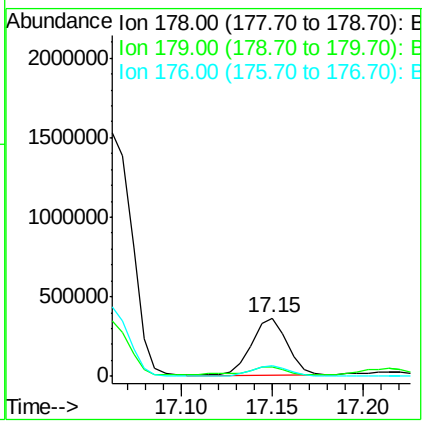





#71
Anthracene
Concen: 35.59 ng/ul
RT: 17.15 min Scan# 2461
Delta R.T. 0.00 min
Lab File: BG017798.D
Acq: 7 Jul 2015 18:15

Tgt Ion:178 Resp: 500194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 16.0 | 12.4 | 18.6 |
| 176 | 18.8 | 15.3 | 22.9 |




**Instrument :**
BNA_G
**ClientSampleId :**
G93K5

**Manual Integrations APPROVED**
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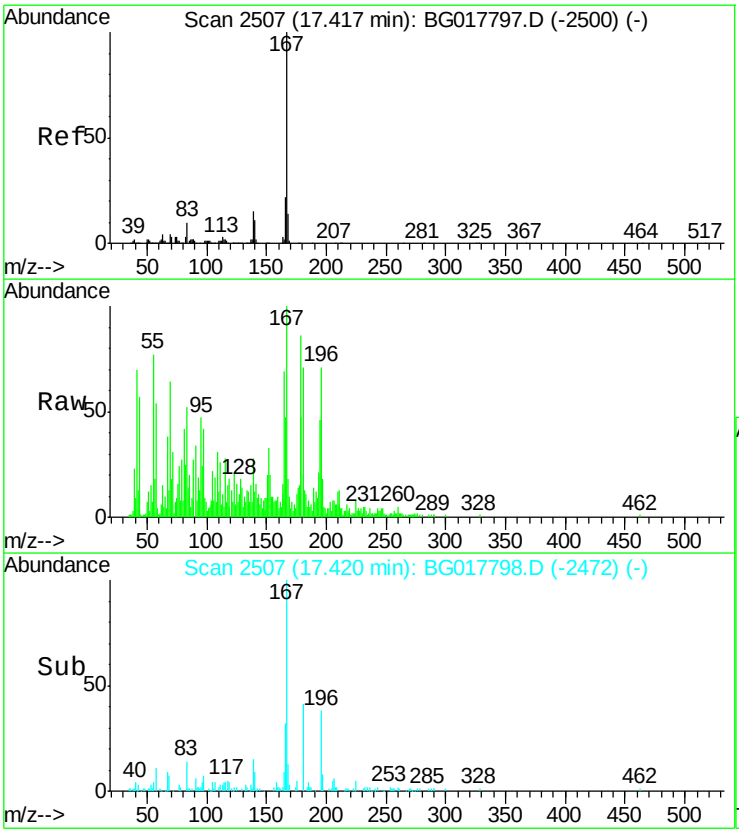
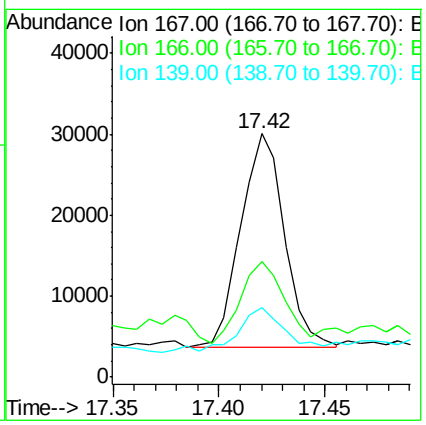
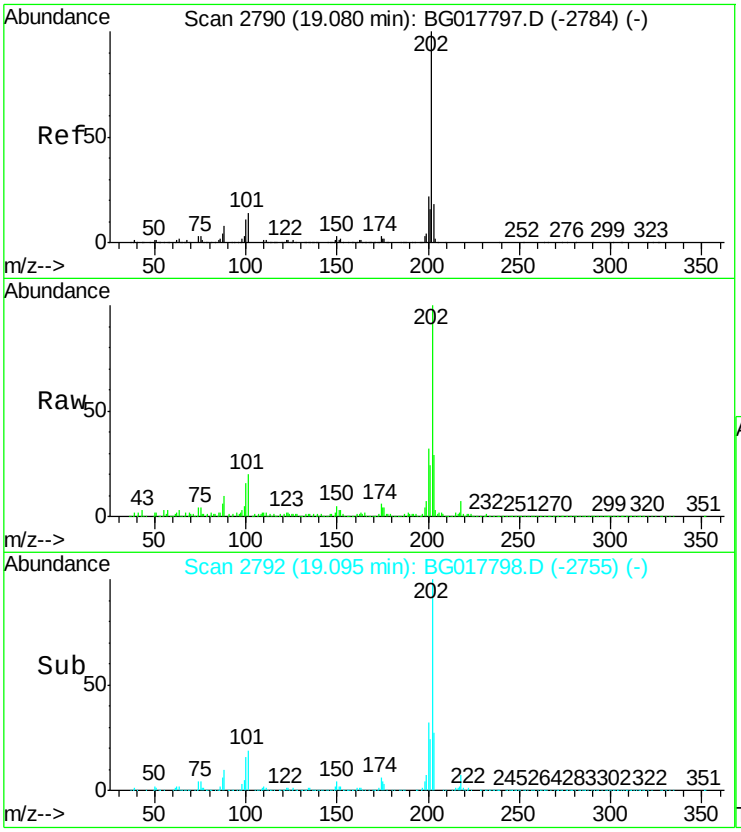



#74
Carbazole
Concen: 3.22 ng/ul
RT: 17.42 min Scan# 2507
Delta R.T. 0.00 min
Lab File: BG017798.D
Acq: 7 Jul 2015 18:15

Tgt Ion:167 Resp: 37744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 47.2 | 18.0 | 27.0# |
| 139 | 28.4 | 11.4 | 17.0# |






#76
Fluoranthene
Concen: 201.47 ng/ul
RT: 19.09 min Scan# 2792
Delta R.T. 0.01 min
Lab File: BG017798.D
Acq: 7 Jul 2015 18:15

Tgt Ion:202 Resp: 2652782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 20.5 | 12.6 | 18.8# |
| 100 | 15.9 | 9.1 | 13.7# |

**Instrument :**
BNA_G
**ClientSampleId :**
G93K5

**Manual Integrations APPROVED**
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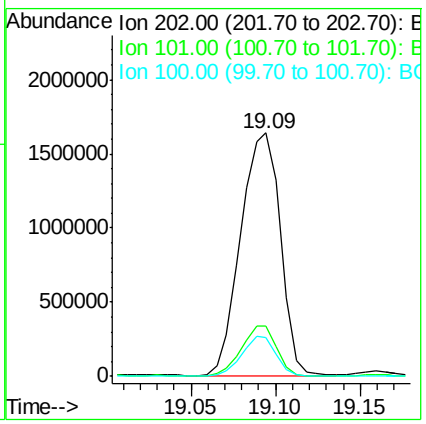
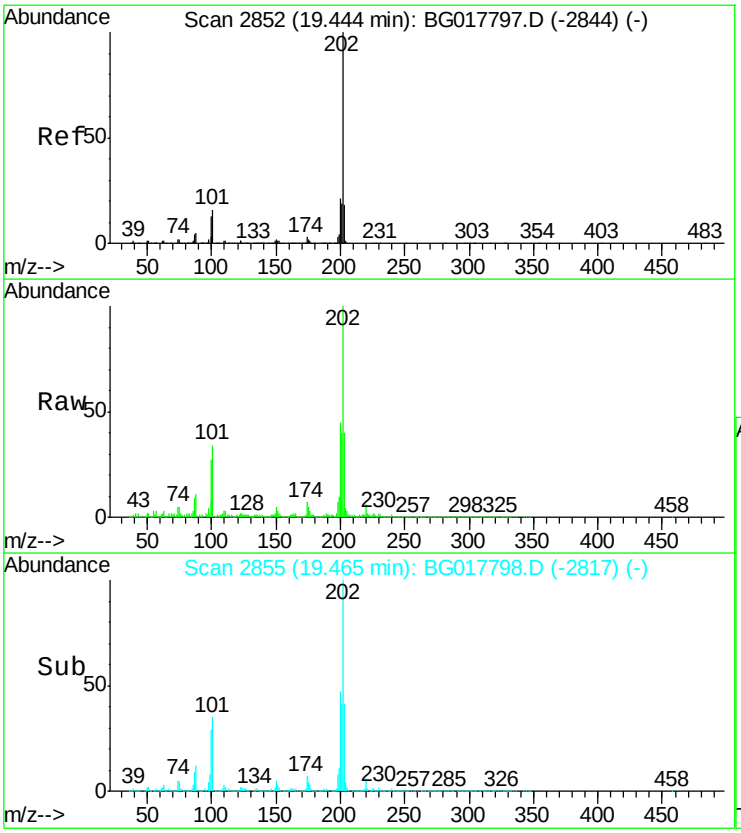
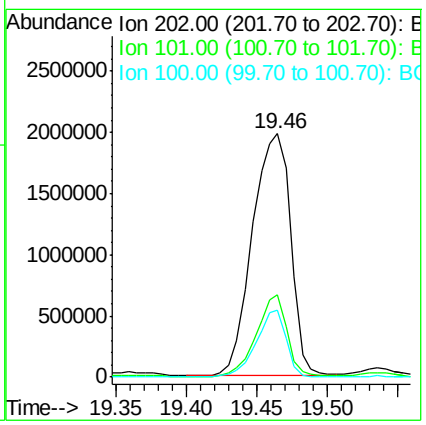


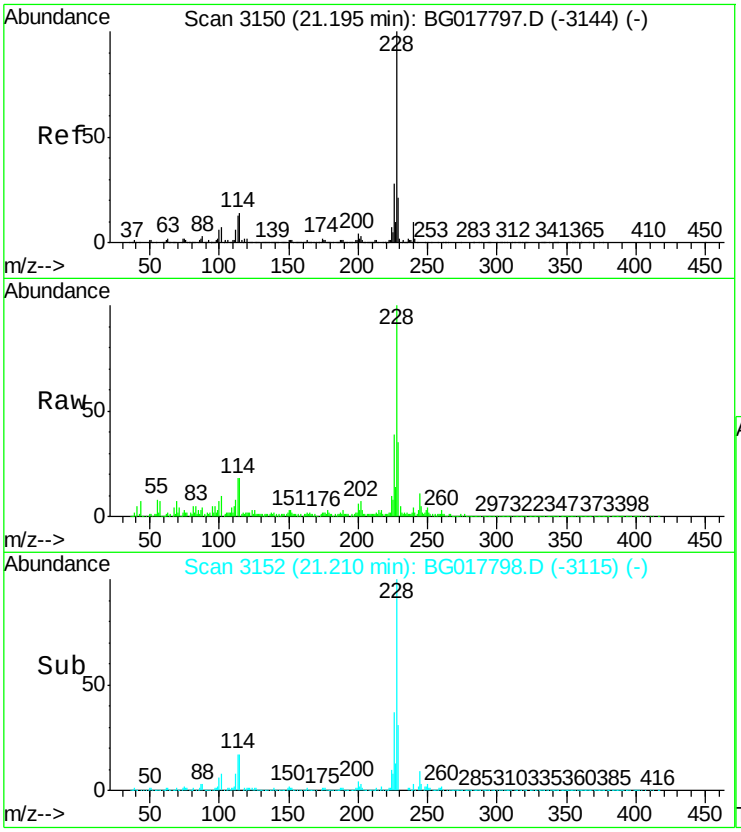




#79
Pyrene
Concen: 190.19 ng/ul
RT: 19.46 min Scan# 2855
Delta R.T. 0.02 min
Lab File: BG017798.D
Acq: 7 Jul 2015 18:15

Tgt Ion:202 Resp: 3768319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 33.7 | 13.1 | 19.7# |
| 100 | 27.4 | 11.3 | 16.9# |






#82
Benzo(a)anthracene
Concen: 109.06 ng/ul
RT: 21.21 min Scan# 3152
Delta R.T. 0.01 min
Lab File: BG017798.D
Acq: 7 Jul 2015 18:15

Tgt Ion:228 Resp: 1951124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 34.5 | 15.8 | 23.8# |
| 226 | 38.5 | 22.2 | 33.2# |

**Instrument :**
BNA_G
**ClientSampleId :**
G93K5

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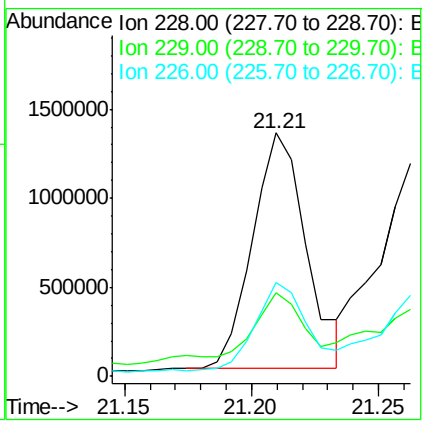
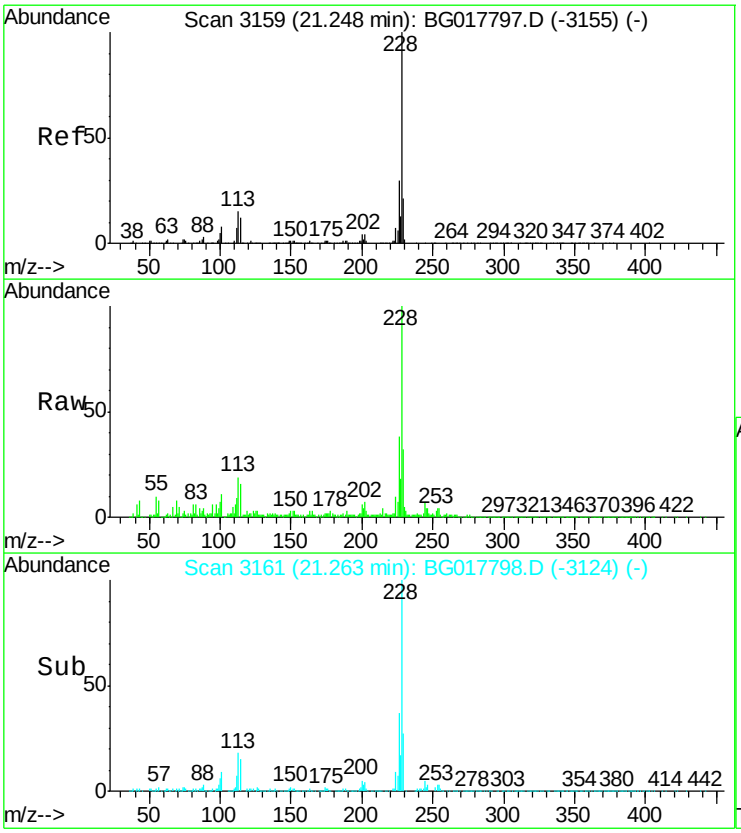
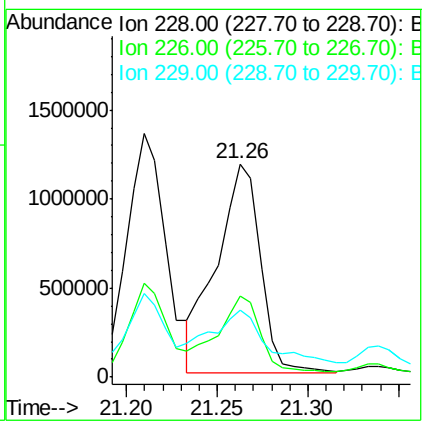


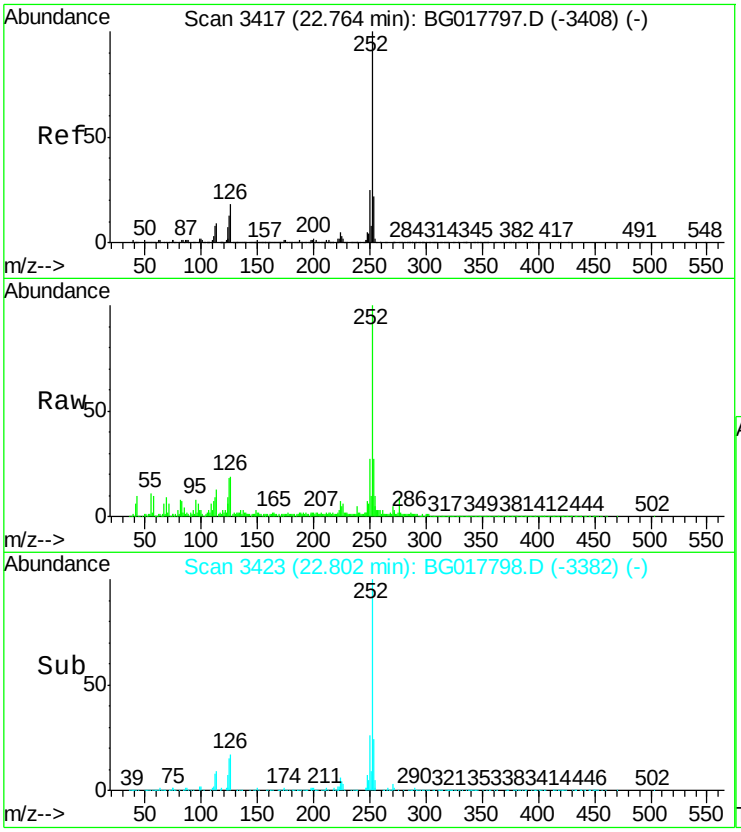




#84
Chrysene
Concen: 117.33 ng/ul
RT: 21.26 min Scan# 3161
Delta R.T. 0.01 min
Lab File: BG017798.D
Acq: 7 Jul 2015 18:15

Tgt Ion:228 Resp: 1988139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 37.8 | 25.6 | 38.4 |
| 229 | 31.6 | 16.4 | 24.6# |

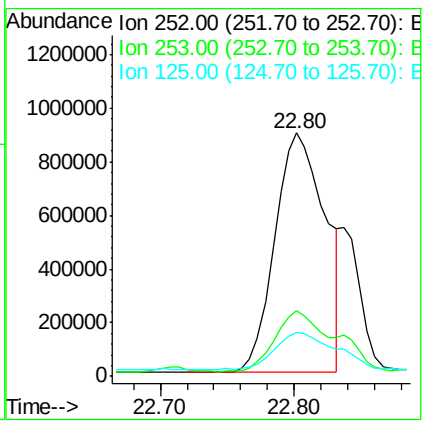





#87
Benzo(b)fluoranthene
Concen: 128.33 ng/ul
RT: 22.80 min Scan# 3423
Delta R.T. 0.04 min
Lab File: BG017798.D
Acq: 7 Jul 2015 18:15

Tgt Ion:252 Resp: 2337035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.1 | 16.8 | 25.2# |
| 125 | 18.0 | 10.4 | 15.6# |




**Instrument :**
BNA_G
**ClientSampleId :**
G93K5

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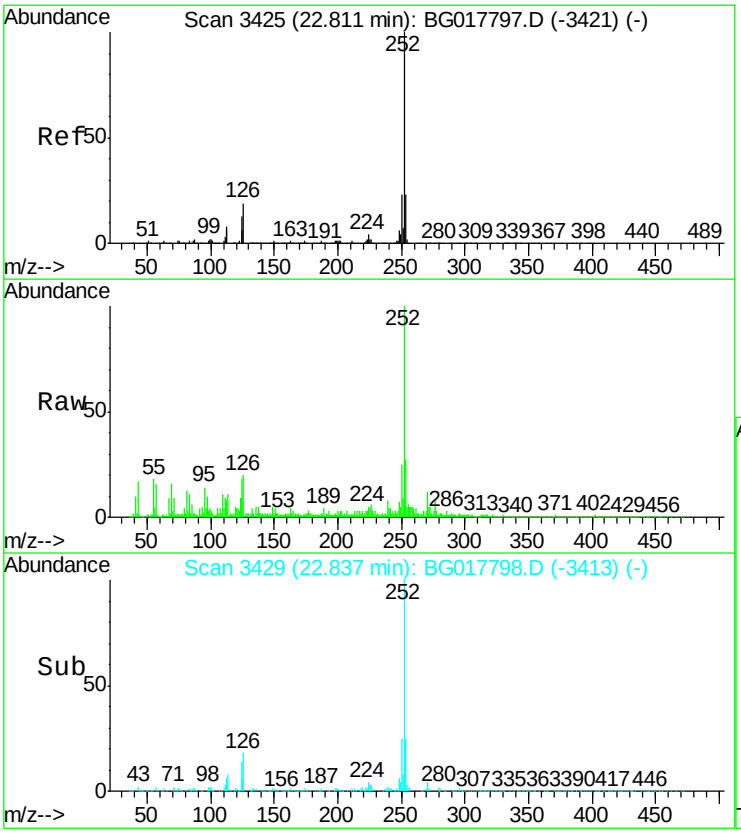
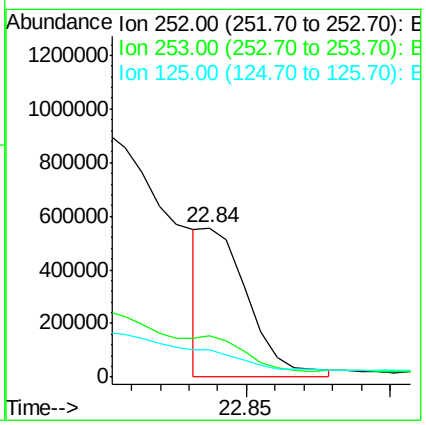
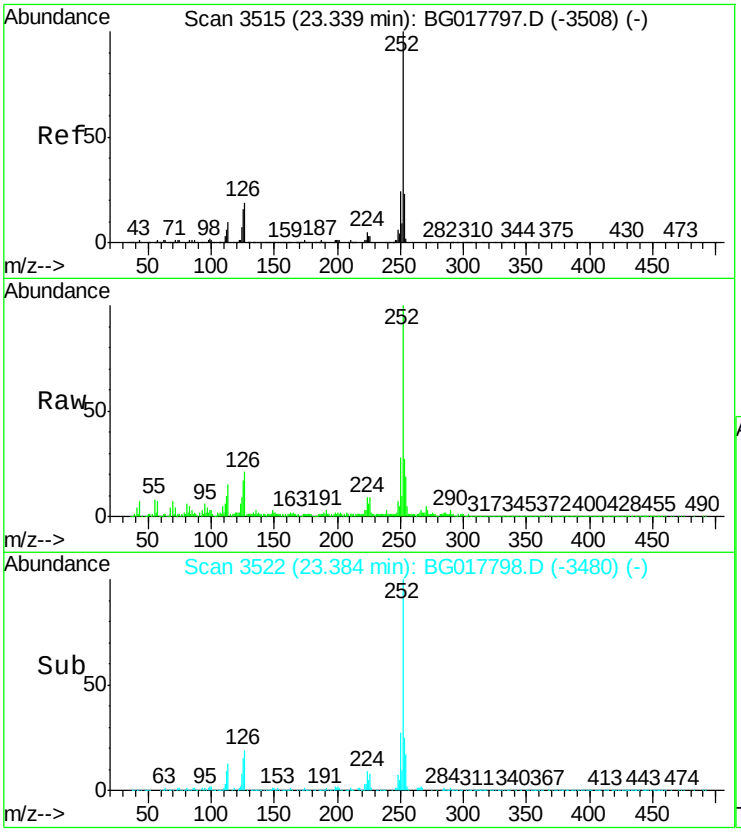



#88
Benzo(k)fluoranthene
Concen: 35.92 ng/ul m
RT: 22.84 min Scan# 3429
Delta R.T. 0.03 min
Lab File: BG017798.D
Acq: 7 Jul 2015 18:15

Tgt Ion:252 Resp: 616565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.3 | 17.6 | 26.4# |
| 125 | 18.0 | 11.6 | 17.4# |

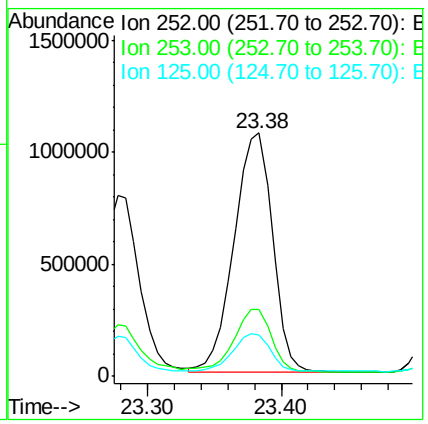





#90
Benzo(a)pyrene
Concen: 122.87 ng/ul
RT: 23.38 min Scan# 3522
Delta R.T. 0.04 min
Lab File: BG017798.D
Acq: 7 Jul 2015 18:15

Tgt Ion:252 Resp: 2126537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.4 | 18.3 | 27.5 |
| 125 | 16.9 | 12.1 | 18.1 |




**Instrument :**
BNA_G
**ClientSampleId :**
G93K5

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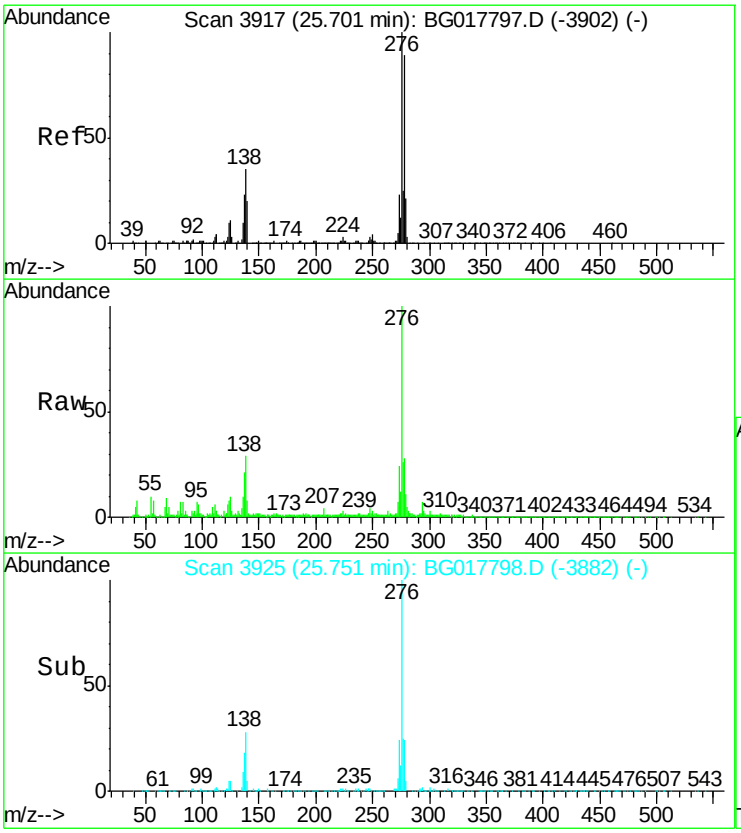
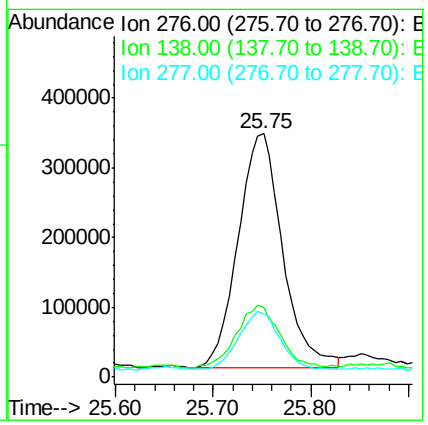
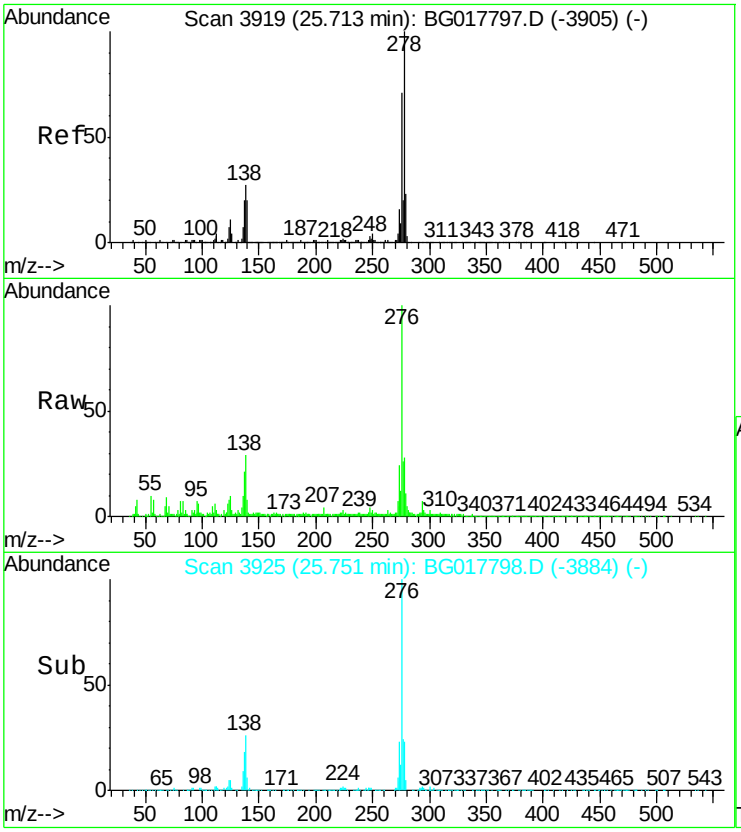



#91
Indeno(1,2,3-cd)pyrene
Concen: 56.57 ng/ul
RT: 25.75 min Scan# 3925
Delta R.T. 0.05 min
Lab File: BG017798.D
Acq: 7 Jul 2015 18:15

Tgt Ion:276 Resp: 1069065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 28.5 | 26.1 | 39.1 |
| 277 | 25.7 | 20.9 | 31.3 |






#92
Dibenzo(a,h)anthracene
Concen: 16.63 ng/ul
RT: 25.75 min Scan# 3925
Delta R.T. 0.04 min
Lab File: BG017798.D
Acq: 7 Jul 2015 18:15

Tgt Ion:278 Resp: 265348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 27.8 | 16.3 | 24.5# |
| 279 | 37.6 | 18.7 | 28.1# |

**Instrument :**
BNA_G
**ClientSampleId :**
G93K5

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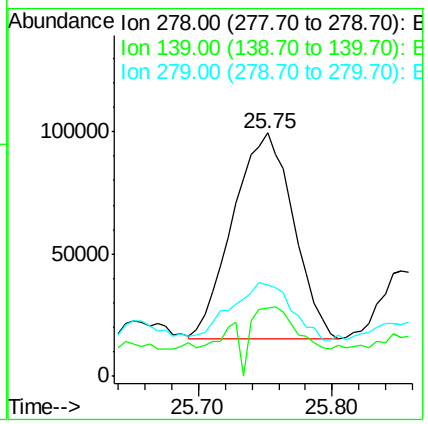


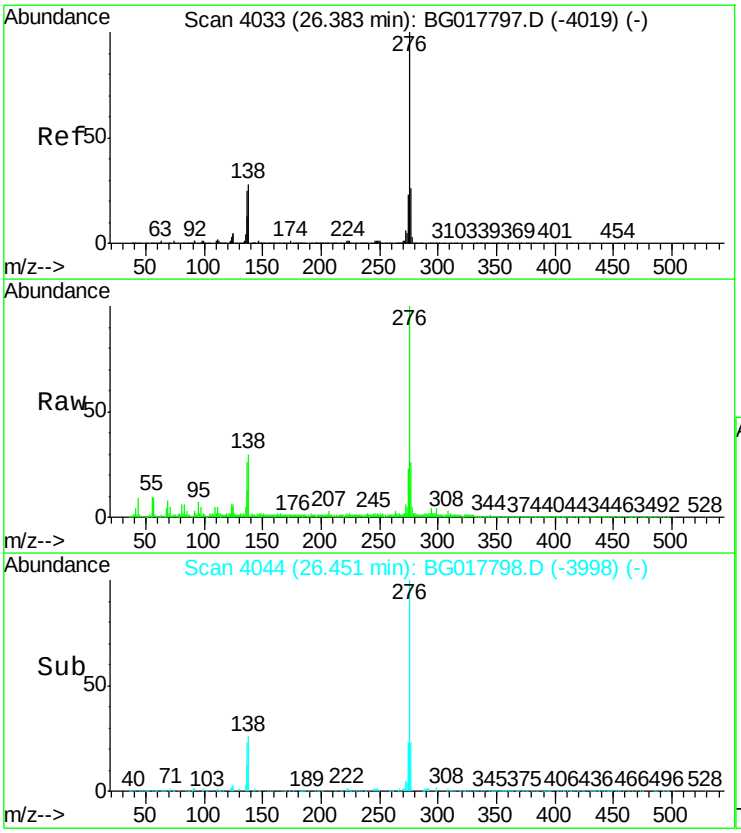


#93
Benzo(g,h,i)perylene
Concen: 74.20 ng/ul
RT: 26.45 min Scan# 4044
Delta R.T. 0.07 min
Lab File: BG017798.D
Acq: 7 Jul 2015 18:15

Tgt Ion:276 Resp: 1172843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 29.6 | 25.1 | 37.7 |
| 277 | 25.6 | 18.7 | 28.1 |