Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG070615\
Data File : BG017782.D
Acq On : 6 Jul 2015 23:05
Operator : TP/UM
Sample : G2860-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** G93J4

**Manual Integrations APPROVED**
apatel
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Quant Time: Jul 07 03:45:10 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG070615.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Jul 07 01:50:10 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.61 | 152 | 174928 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.38 | 136 | 847561 | 20.00 | ng/ul | 0.00 |
| 35) Acenaphthene-d10 | 14.26 | 164 | 540197 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.02 | 188 | 1038631 | 20.00 | ng/ul | 0.01 |
| 77) Chrysene-d12 | 21.22 | 240 | 1190045 | 20.00 | ng/ul | 0.02 |
| 85) Perylene-d12 | 23.46 | 264 | 1222216 | 20.00 | ng/ul | 0.03 |
| **System Monitoring Compounds** | | | | | | |
| 3) 1,4-Dioxane-d8 | 3.13 | 96 | 7274 | 1.64 | ng/uL | 0.00 |
| 5) Phenol-d5 | 6.78 | 99 | 172939 | 11.71 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d | 6.95 | 67 | 100959 | 11.41 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4 | 7.14 | 132 | 140493 | 11.12 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8 | 8.31 | 113 | 146775 | 12.15 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5 | 8.76 | 128 | 73661 | 11.61 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4 | 9.47 | 143 | 78376 | 12.37 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3 | 10.01 | 165 | 133483 | 11.04 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4 | 10.53 | 131 | 151205 | 9.20 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6 | 13.67 | 166 | 385295 | 10.78 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8 | 13.95 | 160 | 516896 | 10.73 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4 | 14.46 | 143 | 64676 | 9.02 | ng/ul | 0.00 |
| 57) Fluorene-d10 | 15.26 | 176 | 378871 | 10.39 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.38 | 200 | 30632 | 6.36 | ng/ul | 0.01 |
| 70) Anthracene-d10 | 17.12 | 188 | 533741 | 11.28 | ng/ul | 0.01 |
| 78) Pyrene-d10 | 19.42 | 212 | 572400 | 10.12 | ng/ul | 0.01 |
| 89) Benzo(a)pyrene-d12 | 23.31 | 264 | 525339 | 9.76 | ng/ul | 0.03 |
| **Target Compounds** | | | | | | Qvalue |
| 14) Acetophenone | 8.42 | 105 | 35989 | 2.02 | ng/ul | 93 |
| 28) Naphthalene | 10.44 | 128 | 865366 | 19.73 | ng/ul | 99 |
| 34) 2-Methylnaphthalene | 12.05 | 142 | 320585 | 10.30 | ng/ul | 97 |
| 40) 1,1'-Biphenyl | 13.09 | 154 | 126317 | 3.16 | ng/ul | 100 |
| 44) Dimethylphthalate | 13.72 | 163 | 182403 | 4.59 | ng/ul# | 98 |
| 47) Acenaphthylene | 13.98 | 152 | 210667 | 4.00 | ng/ul# | 93 |
| 49) Acenaphthene | 14.33 | 153 | 877676 | 24.73 | ng/ul | 96 |
| 53) Dibenzofuran | 14.66 | 168 | 976172 | 20.40 | ng/ul | 98 |
| 58) Fluorene | 15.31 | 166 | 1159003 | 27.27 | ng/ul# | 98 |
| 69) Phenanthrene | 17.07 | 178 | 4870371 | 85.80 | ng/ul# | 39 |
| 71) Anthracene | 17.15 | 178 | 2408012 | 41.24 | ng/ul# | 82 |
| 74) Carbazole | 17.42 | 167 | 883434 | 18.17 | ng/ul | 100 |
| 76) Fluoranthene | 19.10 | 202 | 5045347m | 92.25 | ng/ul | |
| 79) Pyrene | 19.46 | 202 | 4796390 | 66.04 | ng/ul# | 46 |
| 82) Benzo(a)anthracene | 21.21 | 228 | 3228928 | 49.24 | ng/ul# | 67 |
| 84) Chrysene | 21.26 | 228 | 2830371 | 45.57 | ng/ul# | 71 |
| 87) Benzo(b)fluoranthene | 22.79 | 252 | 3756432 | 53.77 | ng/ul# | 83 |
| 88) Benzo(k)fluoranthene | 22.83 | 252 | 1353139 | 20.55 | ng/ul# | 90 |
| 90) Benzo(a)pyrene | 23.37 | 252 | 2968496 | 44.71 | ng/ul# | 89 |
| 91) Indeno(1,2,3-cd)pyrene | 25.73 | 276 | 1924302 | 26.55 | ng/ul | 96 |
| 92) Dibenzo(a,h)anthracene | 25.73 | 278 | 529232 | 8.64 | ng/ul# | 74 |
| 93) Benzo(g,h,i)perylene | 26.42 | 276 | 1196319 | 19.73 | ng/ul | 96 |

Quantitation Report (LSC Reviewed)

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Data File : BG017782.D
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Operator : TP/UM
Sample : G2860-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 07 03:45:10 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG070615.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Jul 07 01:50:10 2015
Response via : Initial Calibration

**Instrument :**
BNA_G
**ClientSampleId :**
G93J4

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| 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\BG070615\
Data File : BG017782.D
Acq On : 6 Jul 2015 23:05
Operator : TP/UM
Sample : G2860-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 07 03:45:10 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG070615.M
Quant Title : SVOA CALIBRATION
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Response via : Initial Calibration

**Instrument :**
BNA_G
**ClientSampleId :**
G93J4

**Manual Integrations APPROVED**
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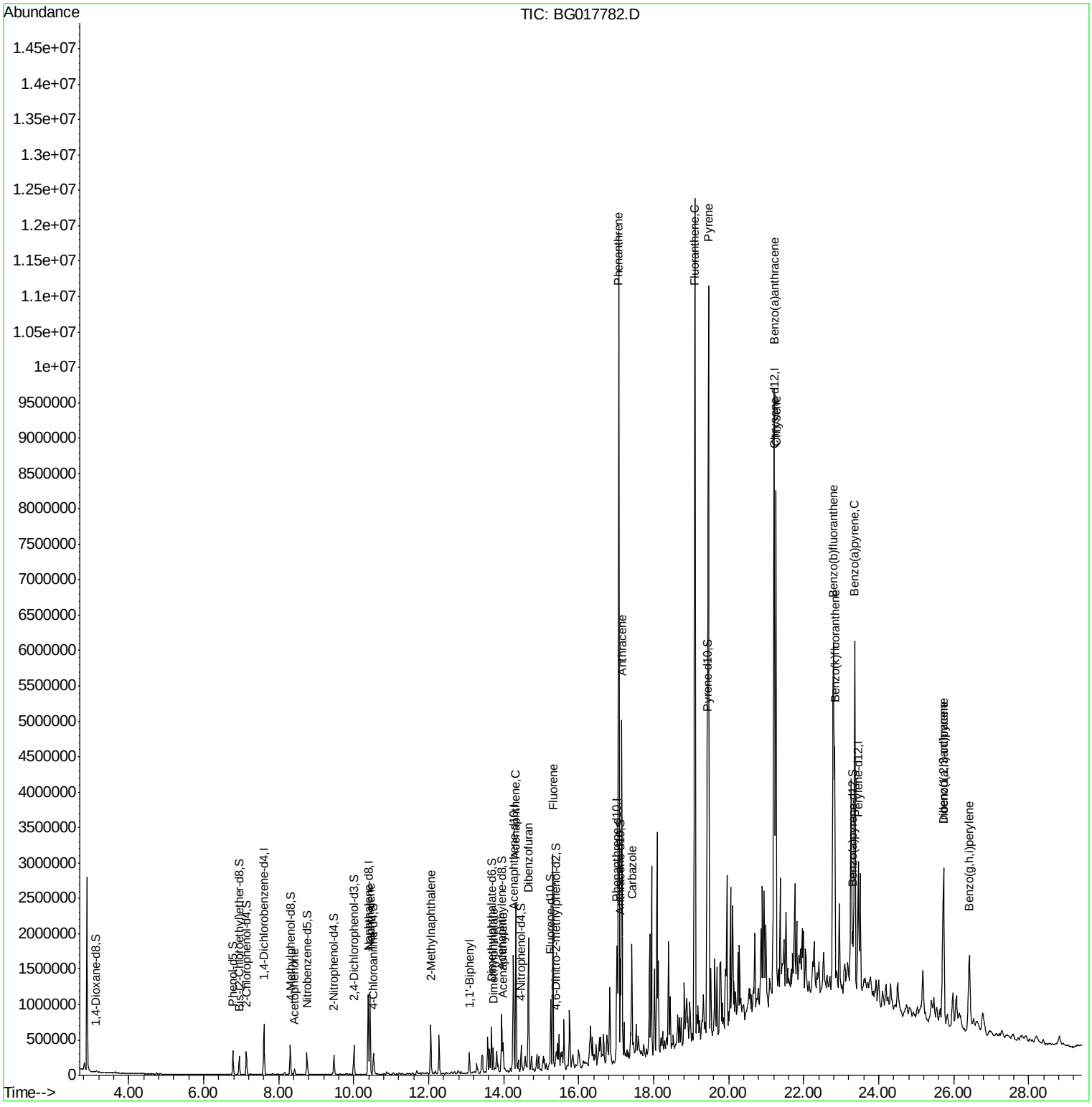
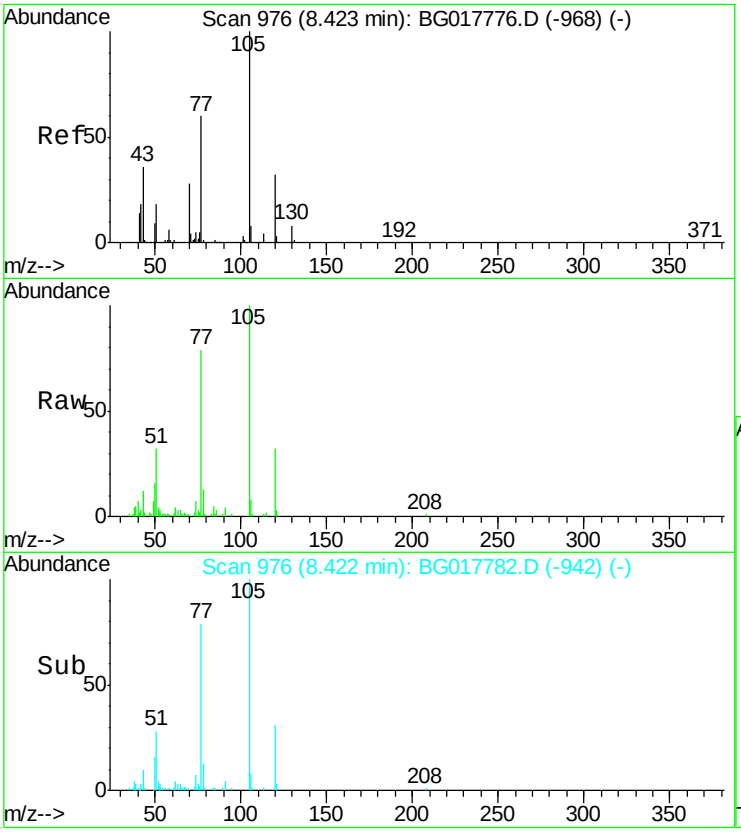
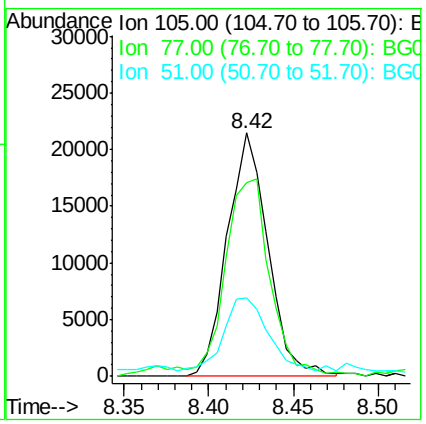





#14
Acetophenone
Concen: 2.02 ng/ul
RT: 8.42 min Scan# 976
Delta R.T. -0.00 min
Lab File: BG017782.D
Acq: 6 Jul 2015 23:05

Tgt Ion:105 Resp: 35989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 77 | 79.4 | 69.5 | 104.3 |
| 51 | 32.0 | 26.7 | 40.1 |




**Instrument :**
BNA_G
**ClientSampleId :**
G93J4

**Manual Integrations APPROVED**
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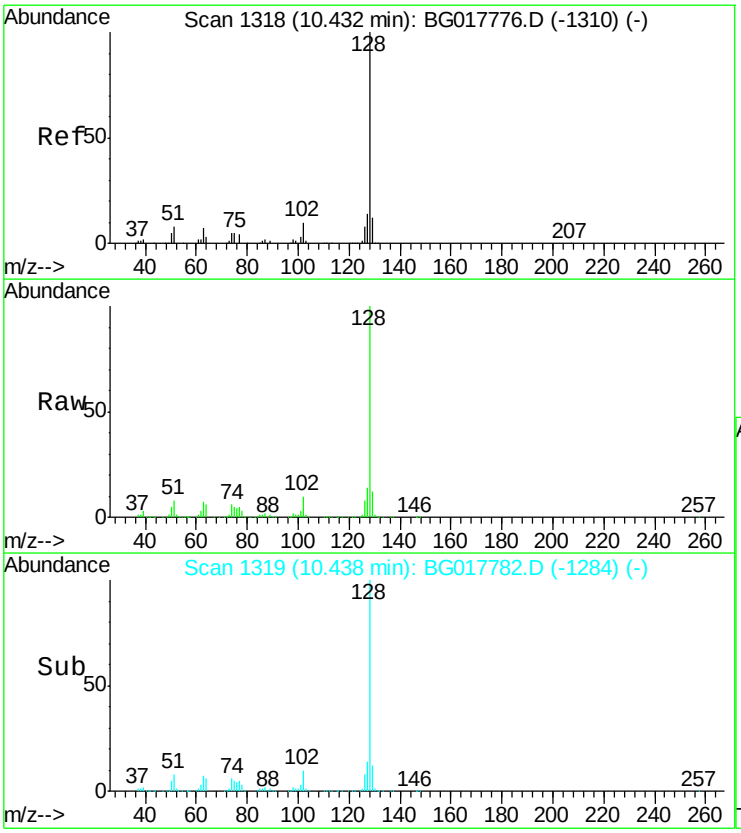
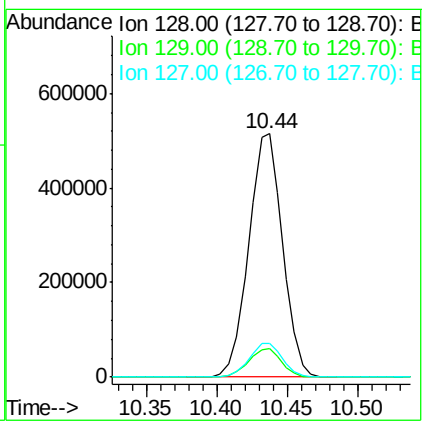
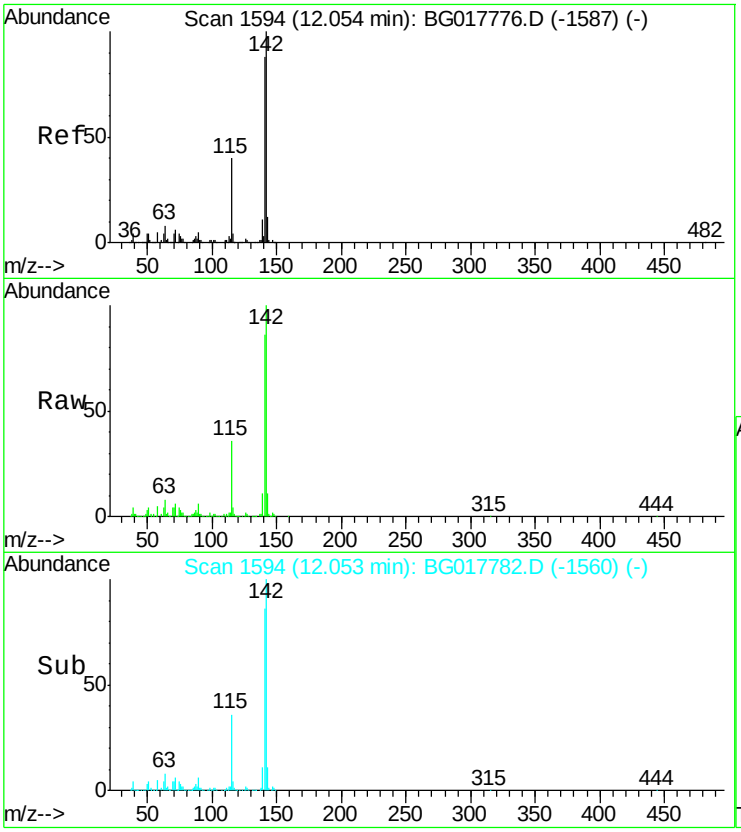



#28
Naphthalene
Concen: 19.73 ng/ul
RT: 10.44 min Scan# 1319
Delta R.T. 0.01 min
Lab File: BG017782.D
Acq: 6 Jul 2015 23:05

Tgt Ion:128 Resp: 865366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.5 | 8.7 | 13.1 |
| 127 | 13.9 | 11.0 | 16.6 |






#34
2-Methylnaphthalene
Concen: 10.30 ng/ul
RT: 12.05 min Scan# 1594
Delta R.T. -0.00 min
Lab File: BG017782.D
Acq: 6 Jul 2015 23:05

Tgt Ion:142 Resp: 320585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 86.3 | 66.6 | 100.0 |

**Instrument :**
BNA_G
**ClientSampleId :**
G93J4

**Manual Integrations APPROVED**
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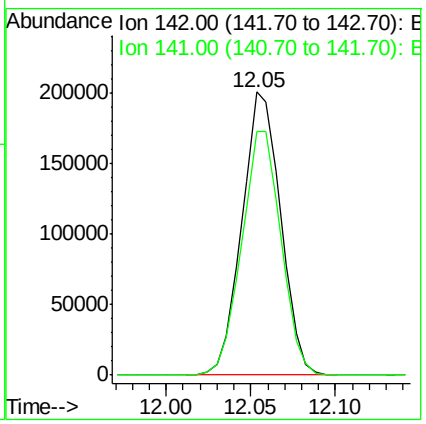
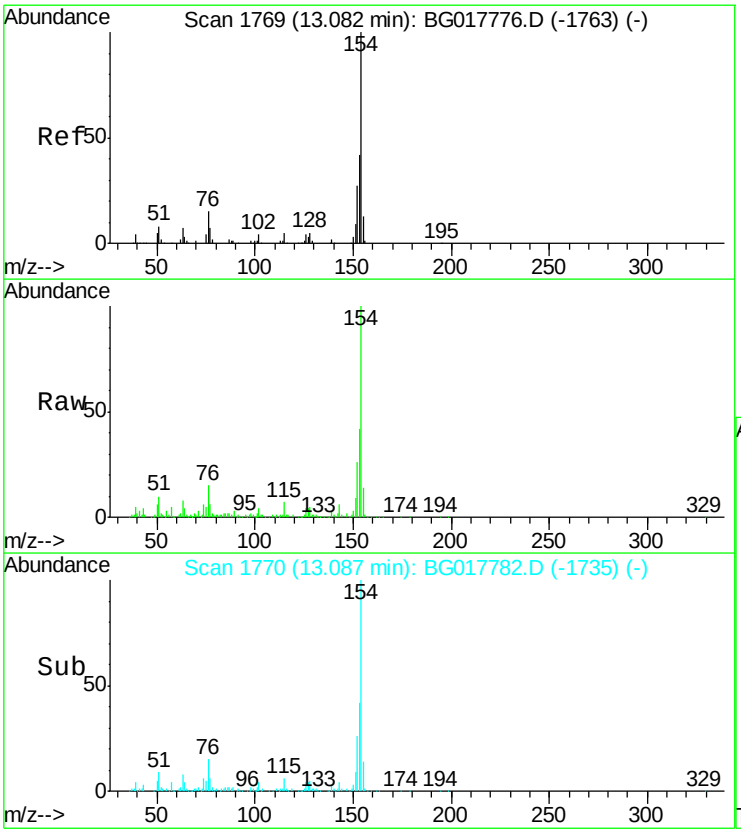
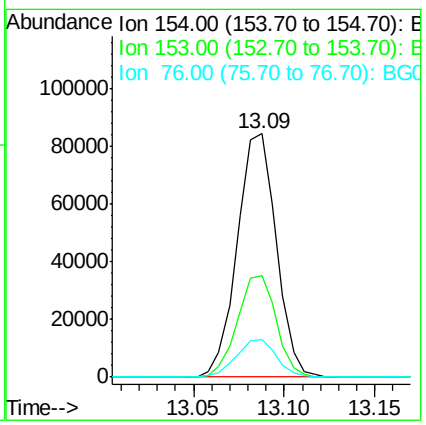


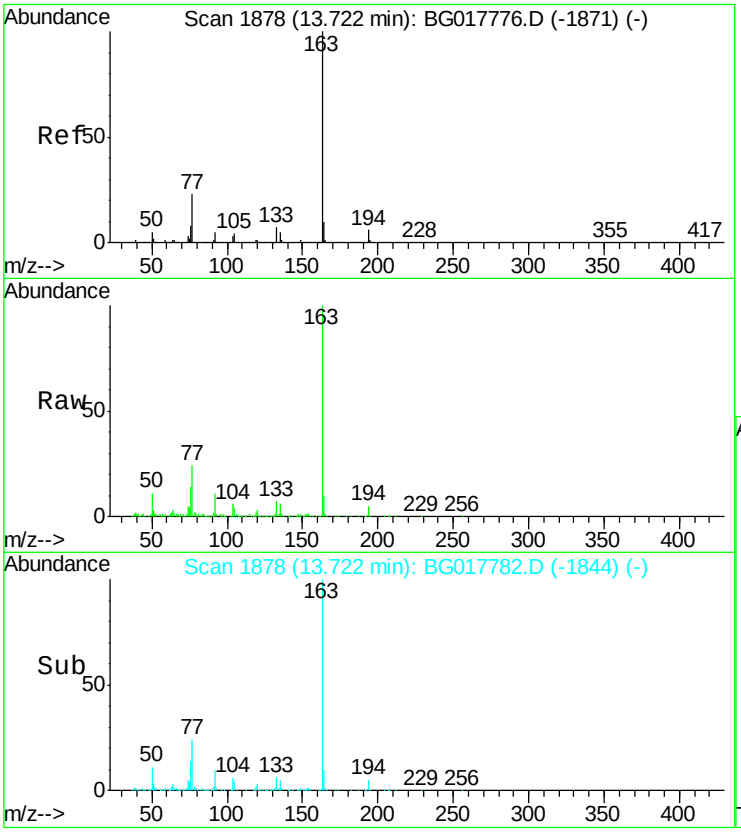




#40
1,1'-Biphenyl
Concen: 3.16 ng/ul
RT: 13.09 min Scan# 1770
Delta R.T. 0.01 min
Lab File: BG017782.D
Acq: 6 Jul 2015 23:05

Tgt Ion:154 Resp: 126317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 41.7 | 33.3 | 49.9 |
| 76 | 15.2 | 12.4 | 18.6 |






#44
Dimethylphthalate
Concen: 4.59 ng/ul
RT: 13.72 min Scan# 1878
Delta R.T. -0.00 min
Lab File: BG017782.D
Acq: 6 Jul 2015 23:05

Tgt Ion:163 Resp: 182403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 5.4 | 5.4 | 8.0# |
| 164 | 9.5 | 7.7 | 11.5 |

**Instrument :**
BNA_G
**ClientSampleId :**
G93J4

**Manual Integrations APPROVED**
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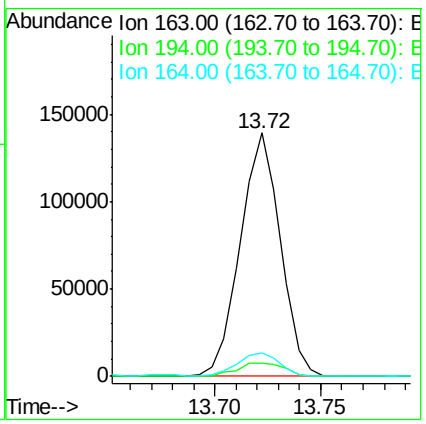
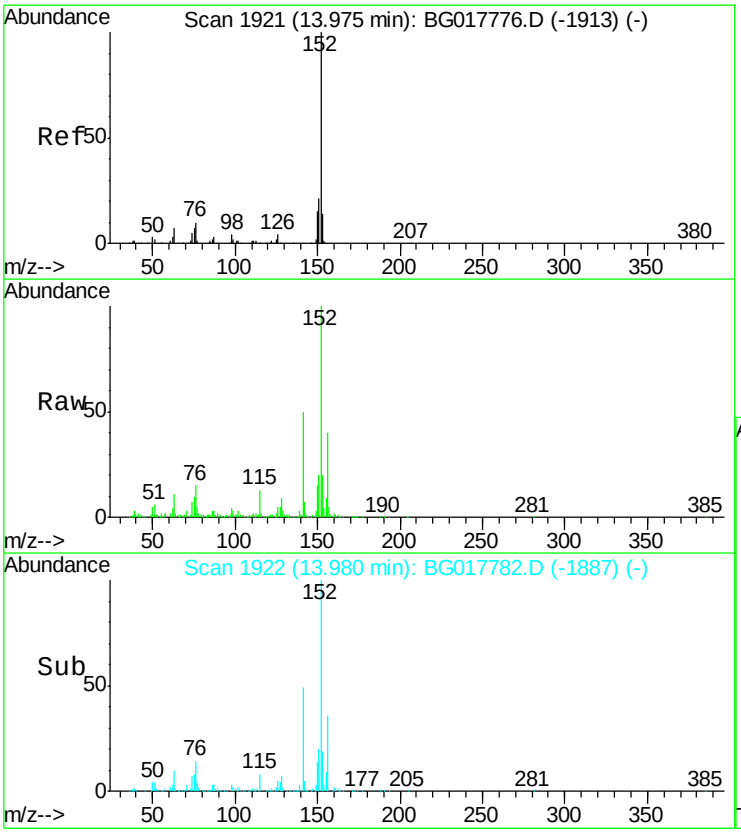
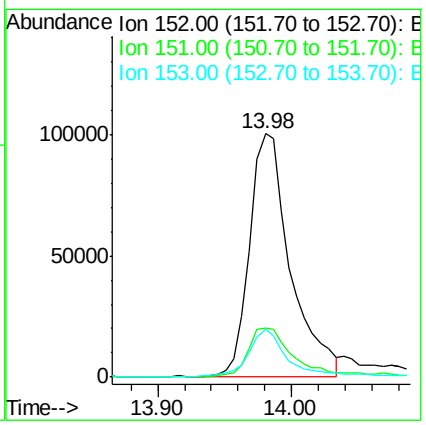


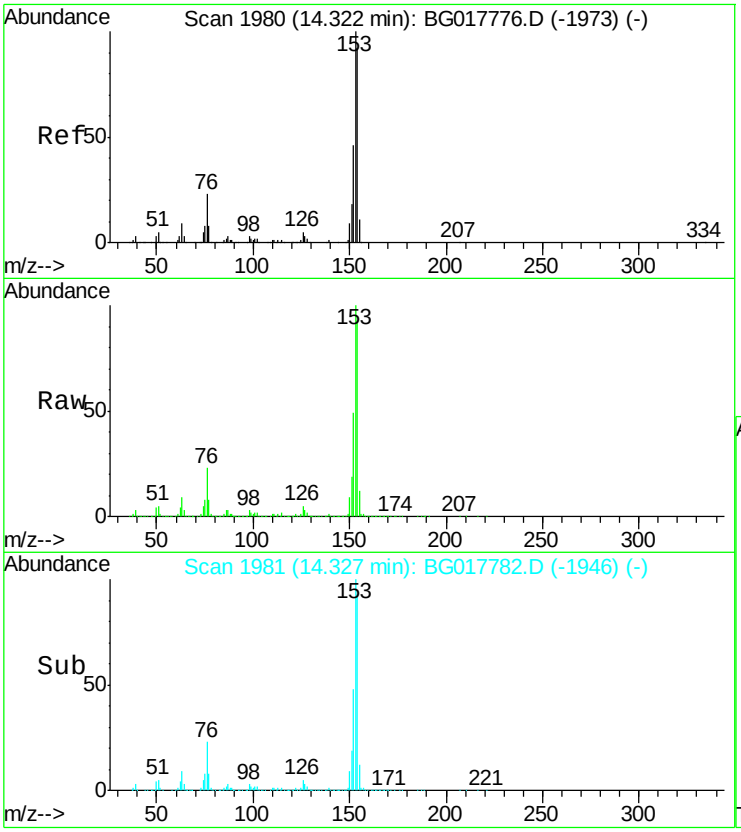




#47
Acenaphthylene
Concen: 4.00 ng/ul
RT: 13.98 min Scan# 1922
Delta R.T. 0.01 min
Lab File: BG017782.D
Acq: 6 Jul 2015 23:05

Tgt Ion:152 Resp: 210667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.2 | 17.0 | 25.6 |
| 153 | 19.6 | 11.2 | 16.8# |

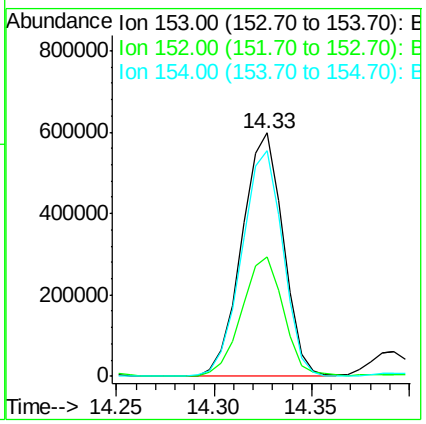





#49
Acenaphthene
Concen: 24.73 ng/ul
RT: 14.33 min Scan# 1981
Delta R.T. 0.01 min
Lab File: BG017782.D
Acq: 6 Jul 2015 23:05

Tgt Ion:153 Resp: 877676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 153 | 100 | | |
| 152 | 48.9 | 37.8 | 56.6 |
| 154 | 93.0 | 71.2 | 106.8 |




**Instrument :**
BNA_G
**ClientSampleId :**
G93J4

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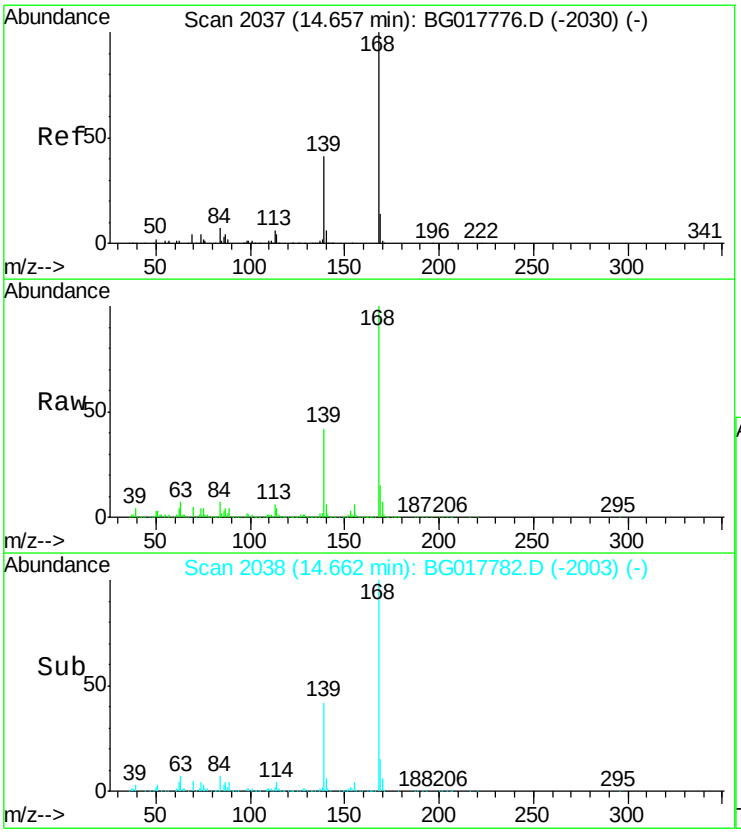
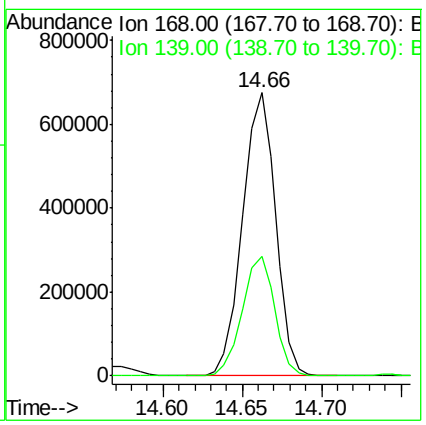
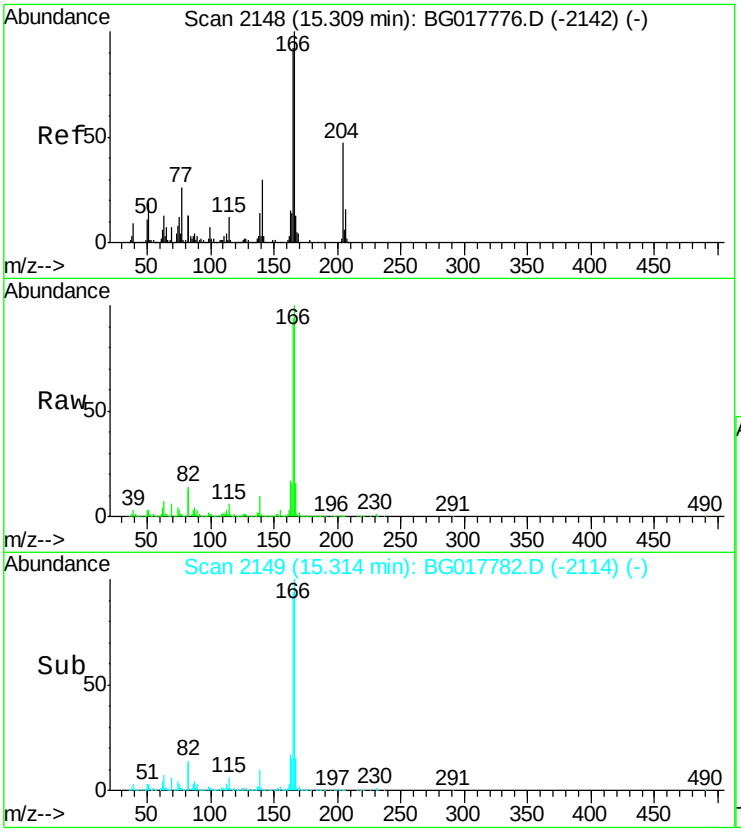



#53
Dibenzofuran
Concen: 20.40 ng/ul
RT: 14.66 min Scan# 2038
Delta R.T. 0.01 min
Lab File: BG017782.D
Acq: 6 Jul 2015 23:05

Tgt Ion:168 Resp: 976172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 42.4 | 32.7 | 49.1 |

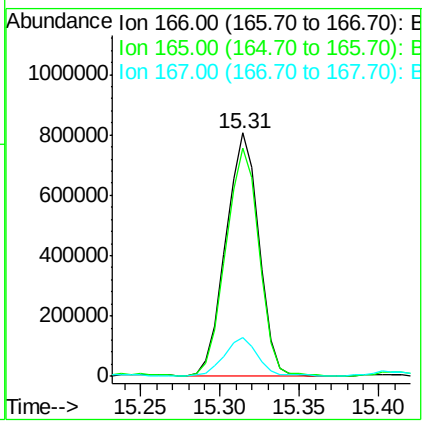





#58
Fluorene
Concen: 27.27 ng/ul
RT: 15.31 min Scan# 2149
Delta R.T. 0.01 min
Lab File: BG017782.D
Acq: 6 Jul 2015 23:05

Tgt Ion:166 Resp: 1159003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 93.7 | 75.7 | 113.5 |
| 167 | 15.9 | 10.1 | 15.1# |




**Instrument :**
BNA_G
**ClientSampleId :**
G93J4

**Manual Integrations APPROVED**
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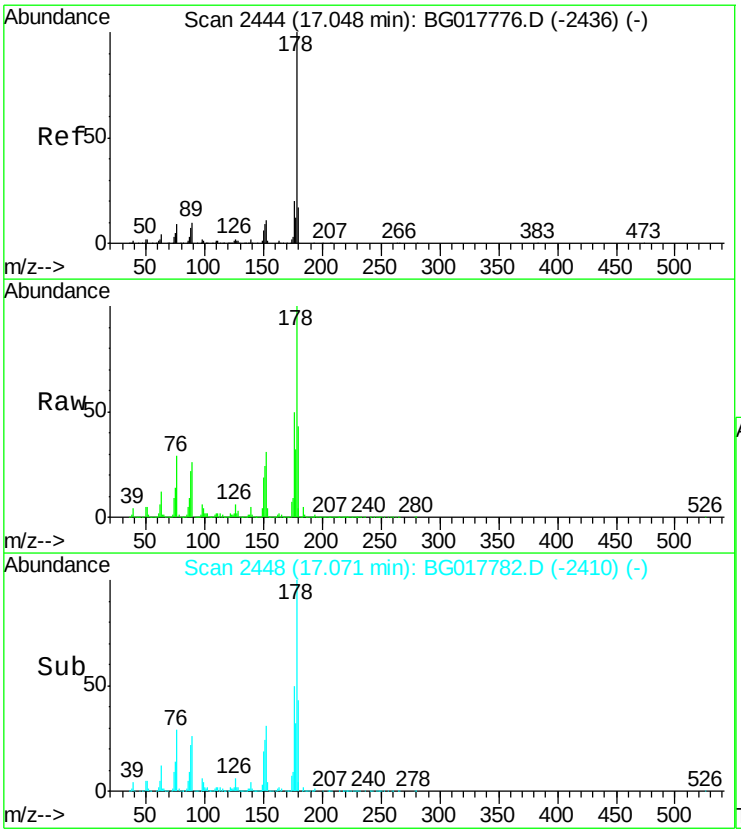
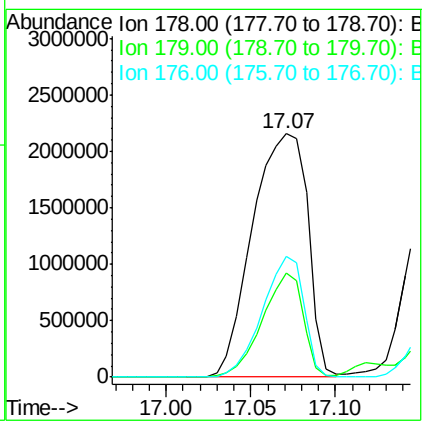
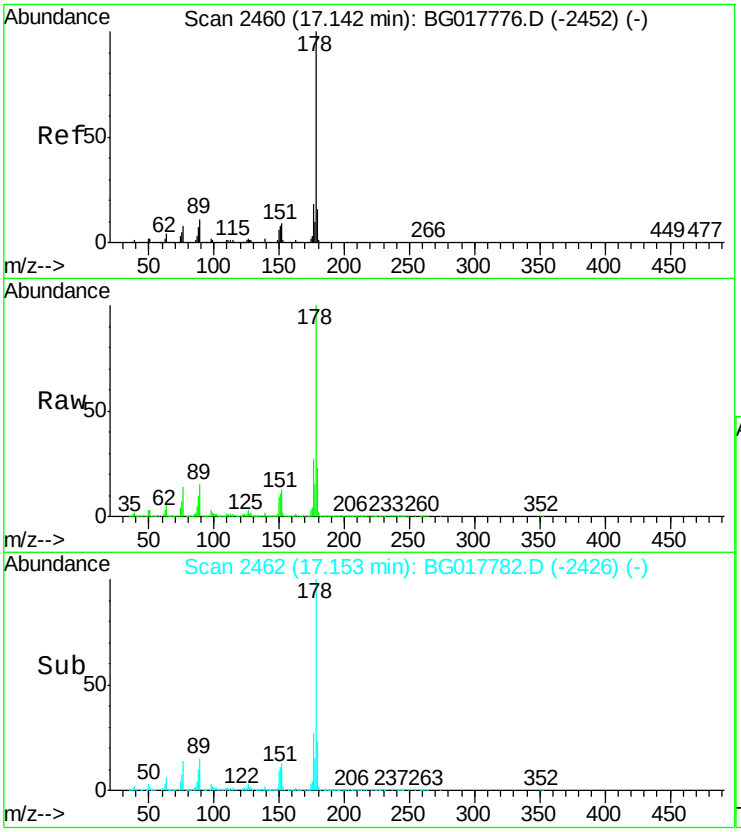



#69
Phenanthrene
Concen: 85.80 ng/ul
RT: 17.07 min Scan# 2448
Delta R.T. 0.02 min
Lab File: BG017782.D
Acq: 6 Jul 2015 23:05

Tgt Ion:178 Resp: 4870371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 42.9 | 13.0 | 19.4# |
| 176 | 49.6 | 17.0 | 25.4# |

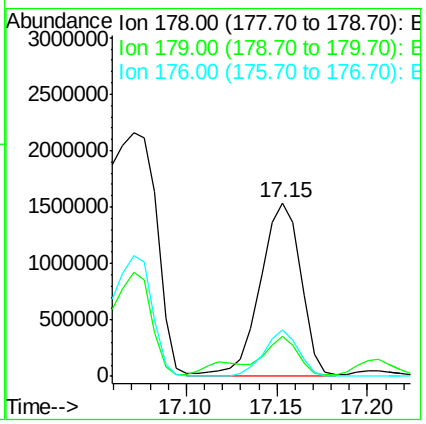





#71
Anthracene
Concen: 41.24 ng/ul
RT: 17.15 min Scan# 2462
Delta R.T. 0.01 min
Lab File: BG017782.D
Acq: 6 Jul 2015 23:05

Tgt Ion:178 Resp: 2408012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 23.1 | 12.4 | 18.6# |
| 176 | 27.1 | 15.3 | 22.9# |

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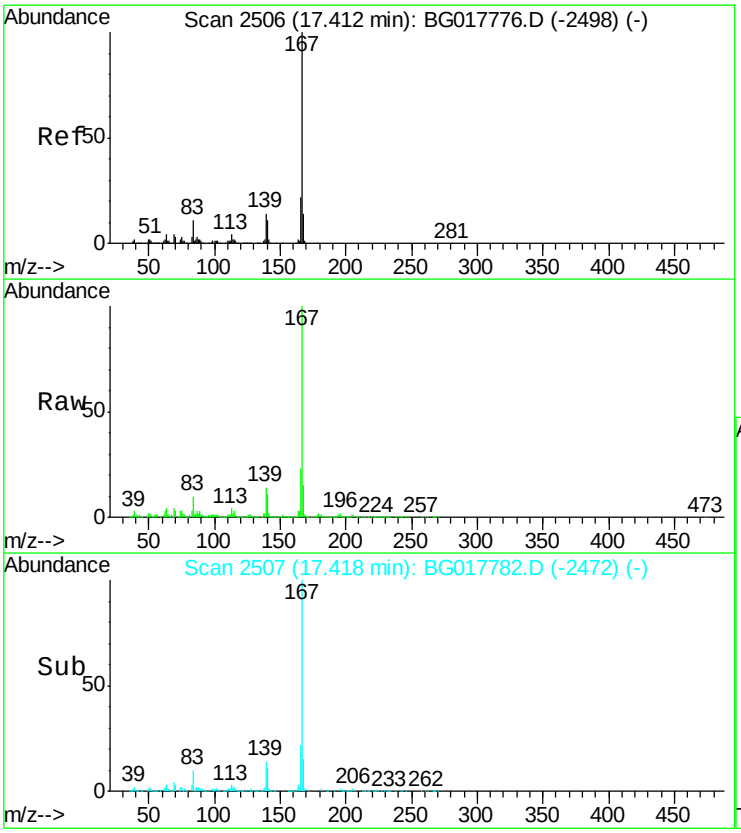
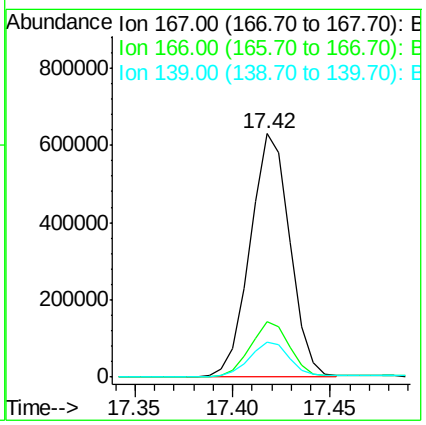
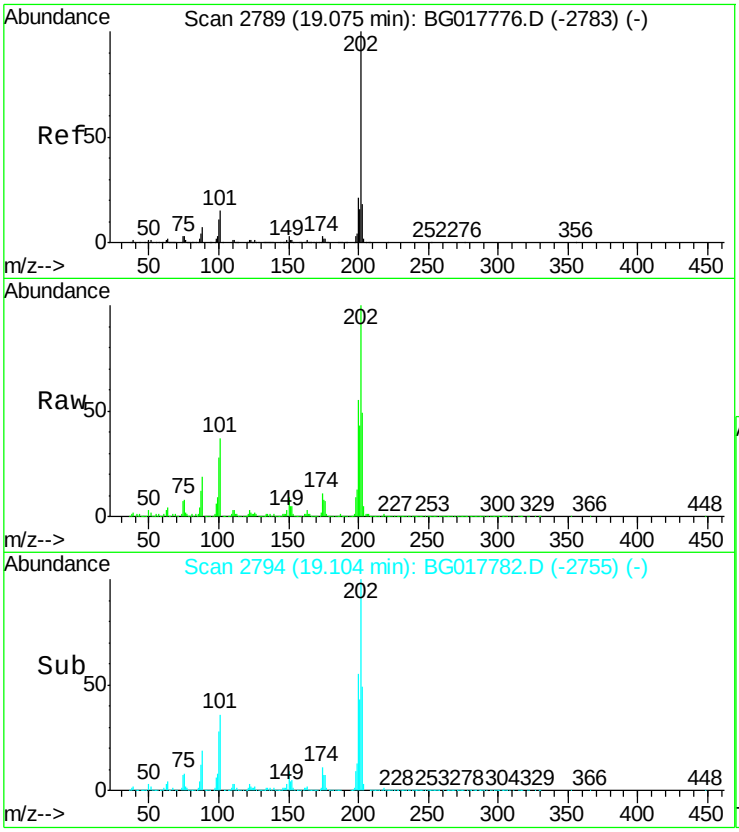



#74
Carbazole
Concen: 18.17 ng/ul
RT: 17.42 min Scan# 2507
Delta R.T. 0.01 min
Lab File: BG017782.D
Acq: 6 Jul 2015 23:05

Tgt Ion:167 Resp: 883434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.8 | 18.0 | 27.0 |
| 139 | 14.2 | 11.4 | 17.0 |






#76
Fluoranthene
Concen: 92.25 ng/ul m
RT: 19.10 min Scan# 2794
Delta R.T. 0.03 min
Lab File: BG017782.D
Acq: 6 Jul 2015 23:05

Tgt Ion:202 Resp: 5045347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 36.6 | 12.6 | 18.8# |
| 100 | 28.1 | 9.1 | 13.7# |

**Instrument :**
BNA_G
**ClientSampleId :**
G93J4

**Manual Integrations APPROVED**
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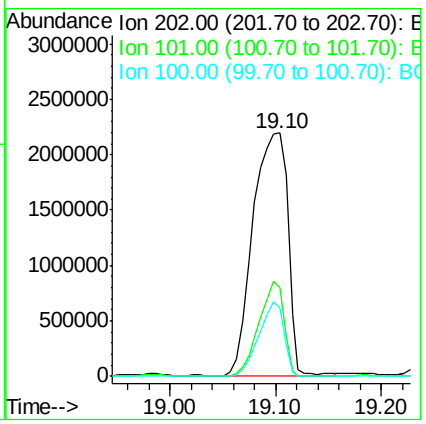
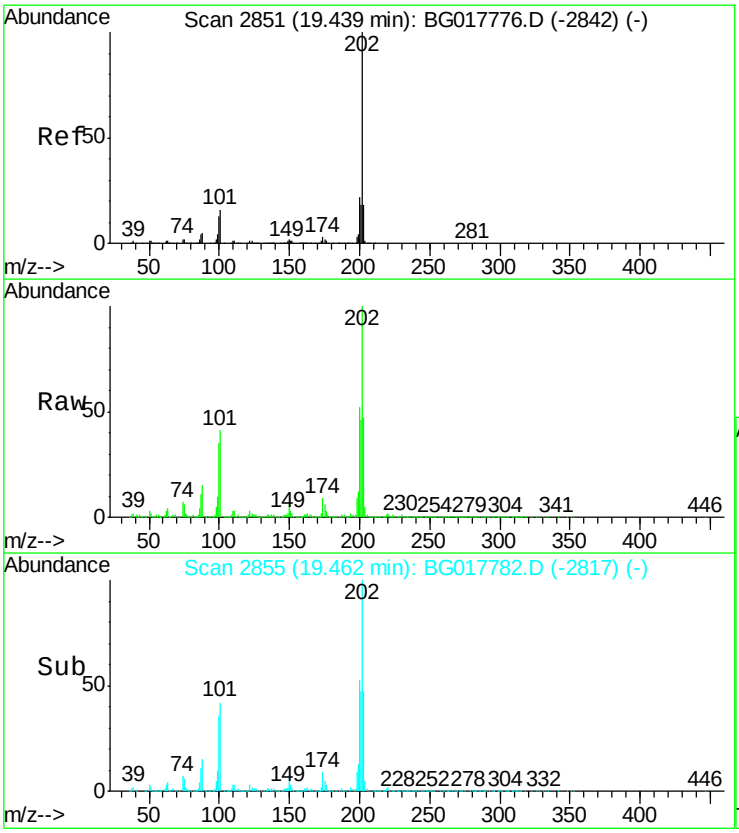
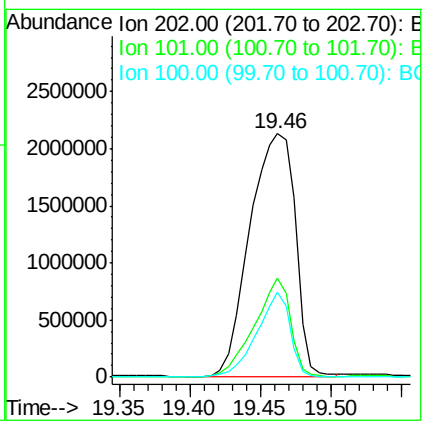


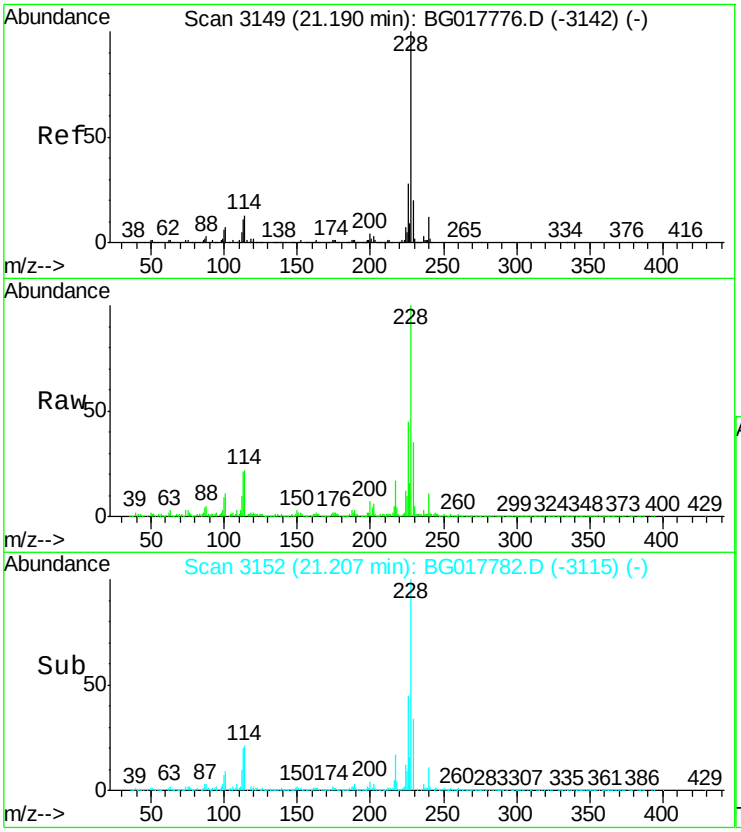




#79
Pyrene
Concen: 66.04 ng/ul
RT: 19.46 min Scan# 2855
Delta R.T. 0.02 min
Lab File: BG017782.D
Acq: 6 Jul 2015 23:05

Tgt Ion:202 Resp: 4796390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 40.9 | 13.1 | 19.7# |
| 100 | 34.7 | 11.3 | 16.9# |

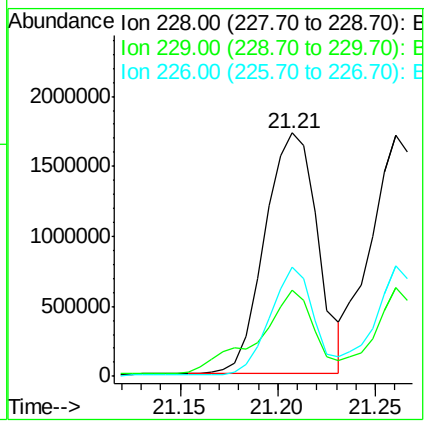





#82
Benzo(a)anthracene
Concen: 49.24 ng/ul
RT: 21.21 min Scan# 3152
Delta R.T. 0.02 min
Lab File: BG017782.D
Acq: 6 Jul 2015 23:05

Tgt Ion:228 Resp: 3228928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 35.3 | 15.8 | 23.8# |
| 226 | 45.0 | 22.2 | 33.2# |




**Instrument :**
BNA_G
**ClientSampleId :**
G93J4

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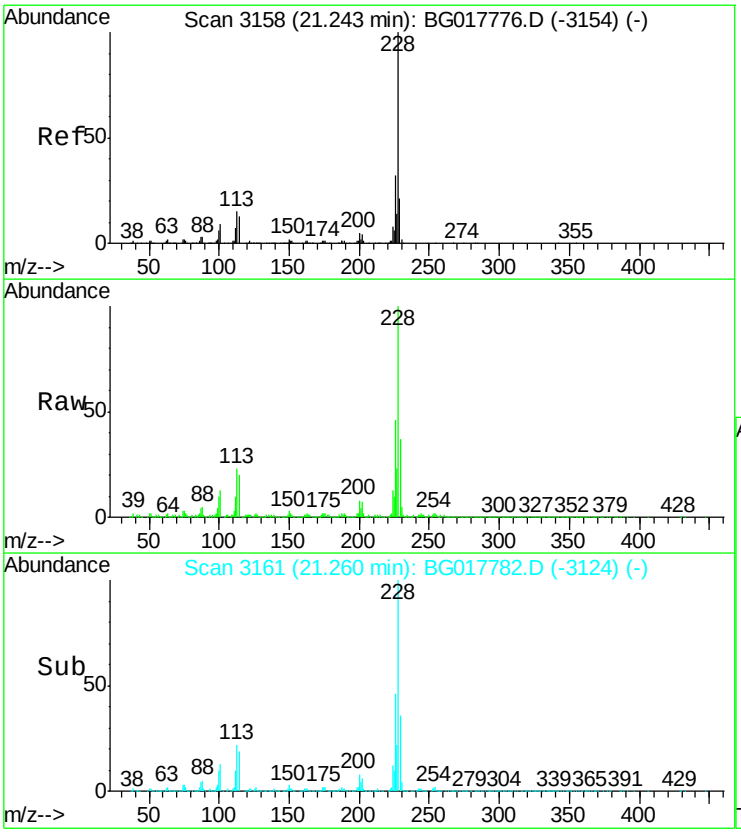
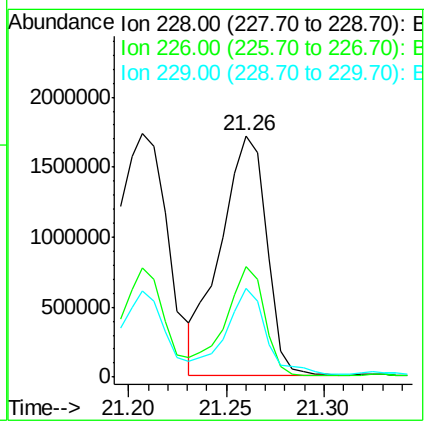
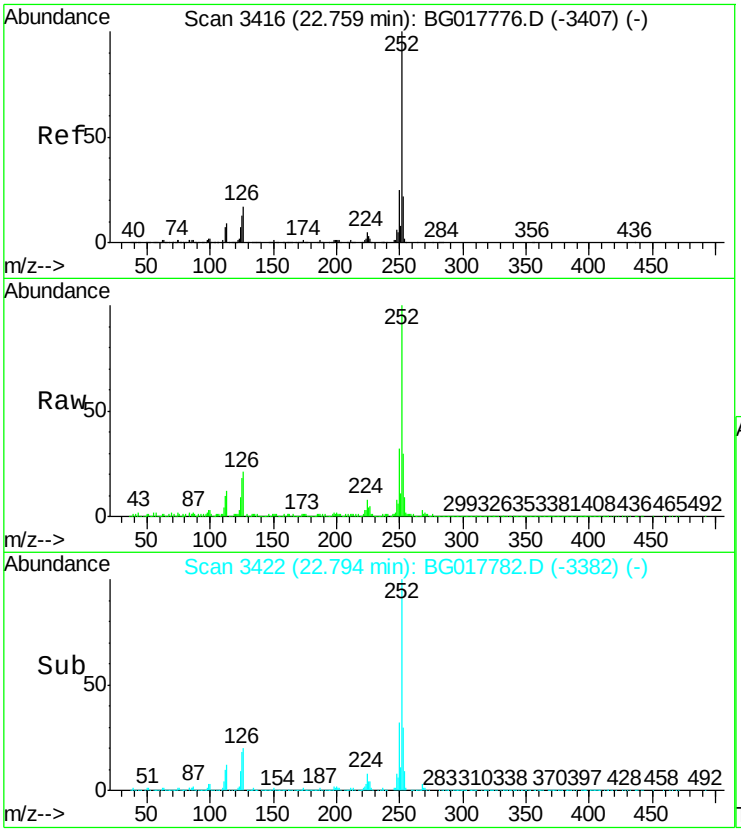



#84
Chrysene
Concen: 45.57 ng/ul
RT: 21.26 min Scan# 3161
Delta R.T. 0.02 min
Lab File: BG017782.D
Acq: 6 Jul 2015 23:05

Tgt Ion:228 Resp: 2830371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 45.8 | 25.6 | 38.4# |
| 229 | 36.5 | 16.4 | 24.6# |






#87
Benzo(b)fluoranthene
Concen: 53.77 ng/ul
RT: 22.79 min Scan# 3422
Delta R.T. 0.03 min
Lab File: BG017782.D
Acq: 6 Jul 2015 23:05

Tgt Ion:252 Resp: 3756432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 30.3 | 16.8 | 25.2# |
| 125 | 18.4 | 10.4 | 15.6# |

**Instrument :**
BNA_G
**ClientSampleId :**
G93J4

**Manual Integrations APPROVED**
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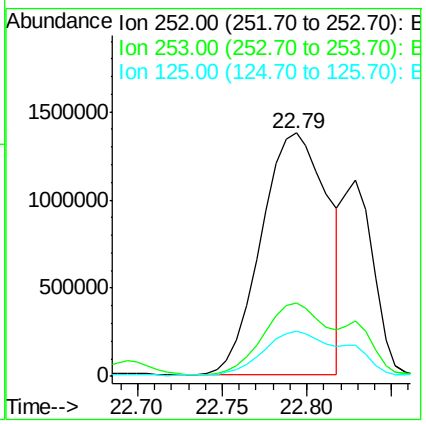
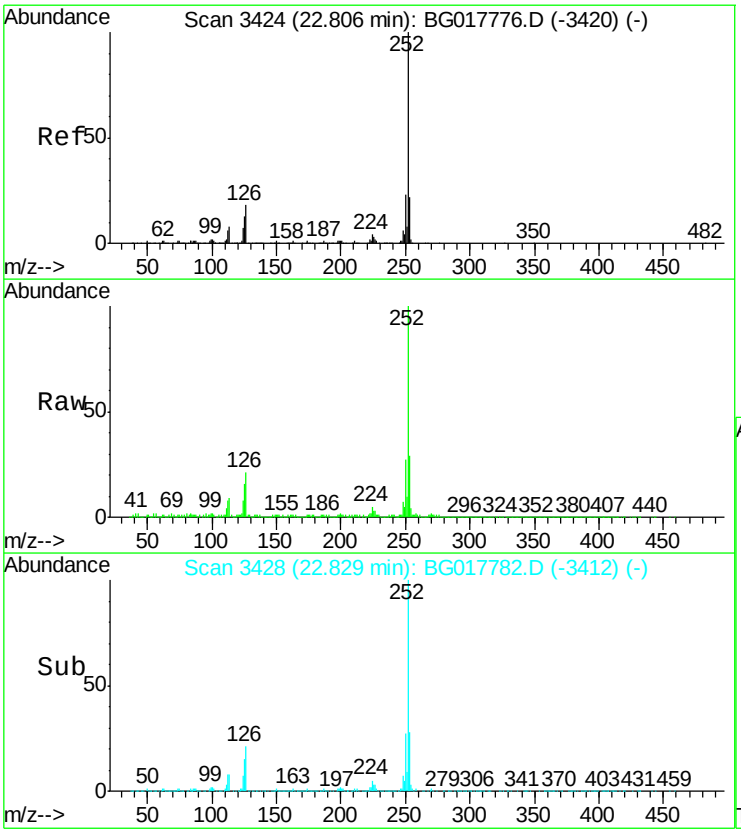
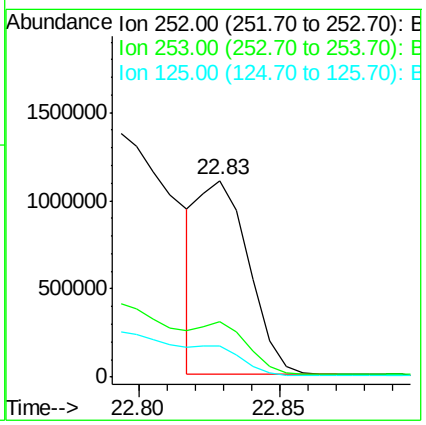


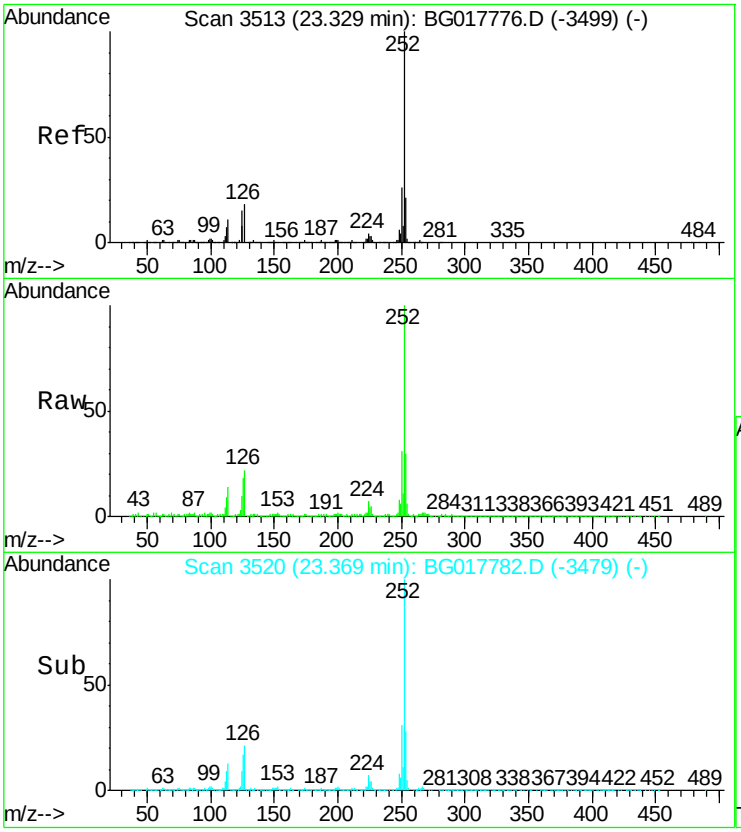




#88
Benzo(k)fluoranthene
Concen: 20.55 ng/ul
RT: 22.83 min Scan# 3428
Delta R.T. 0.02 min
Lab File: BG017782.D
Acq: 6 Jul 2015 23:05

Tgt Ion:252 Resp: 1353139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.5 | 17.6 | 26.4# |
| 125 | 15.9 | 11.6 | 17.4 |

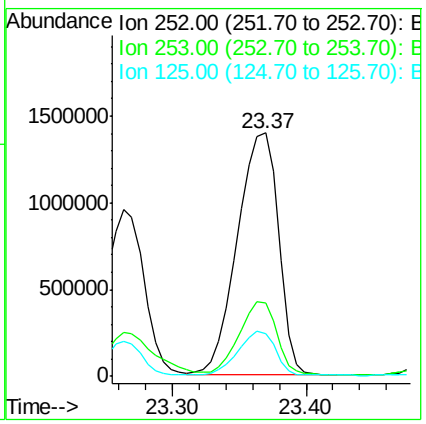





#90
Benzo(a)pyrene
Concen: 44.71 ng/ul
RT: 23.37 min Scan# 3520
Delta R.T. 0.04 min
Lab File: BG017782.D
Acq: 6 Jul 2015 23:05

Tgt Ion:252 Resp: 2968496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 30.2 | 18.3 | 27.5# |
| 125 | 17.5 | 12.1 | 18.1 |




**Instrument :**
BNA_G
**ClientSampleId :**
G93J4

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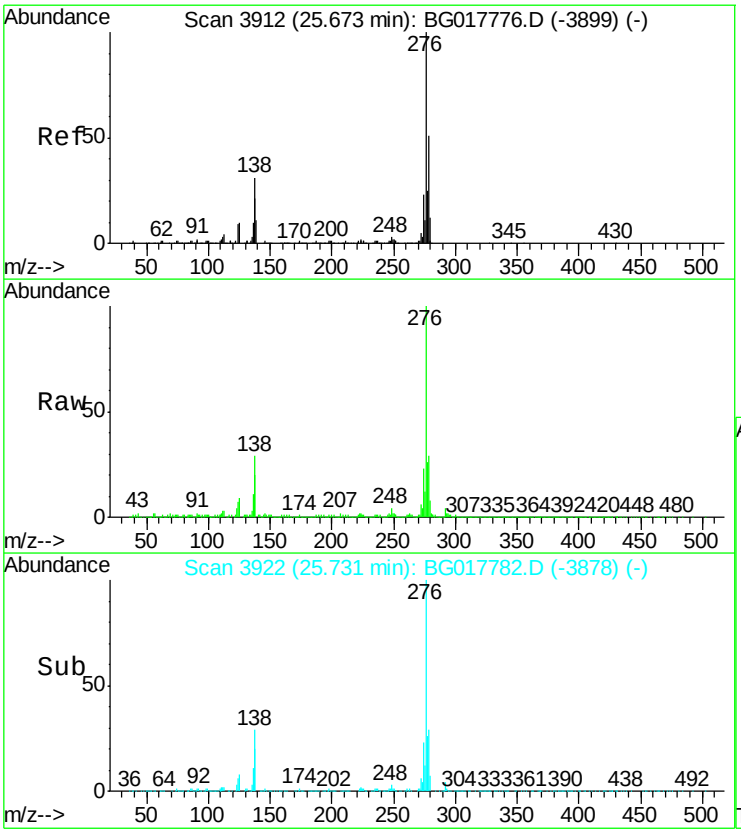
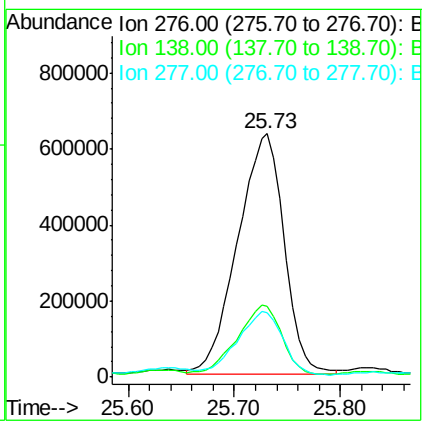
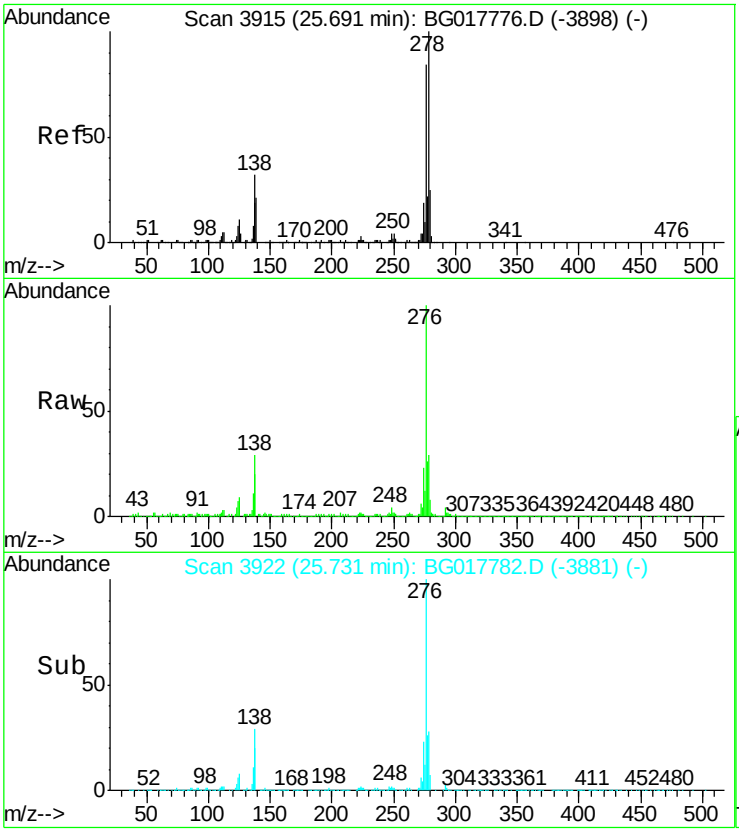



#91
Indeno(1,2,3-cd)pyrene
Concen: 26.55 ng/ul
RT: 25.73 min Scan# 3922
Delta R.T. 0.06 min
Lab File: BG017782.D
Acq: 6 Jul 2015 23:05

Tgt Ion:276 Resp: 1924302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 28.9 | 26.1 | 39.1 |
| 277 | 26.3 | 20.9 | 31.3 |






#92
Dibenzo(a,h)anthracene
Concen: 8.64 ng/ul
RT: 25.73 min Scan# 3922
Delta R.T. 0.04 min
Lab File: BG017782.D
Acq: 6 Jul 2015 23:05

Tgt Ion:278 Resp: 529232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 0.0 | 16.3 | 24.5# |
| 279 | 28.4 | 18.7 | 28.1# |

**Instrument :**
BNA_G
**ClientSampleId :**
G93J4

**Manual Integrations APPROVED**
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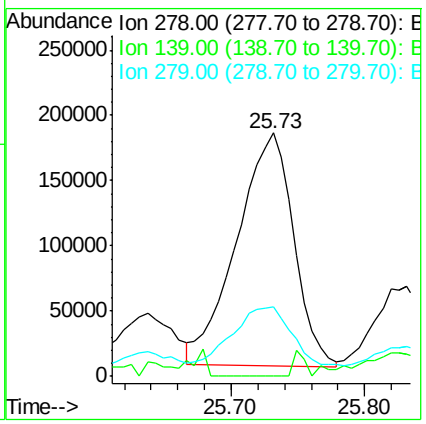


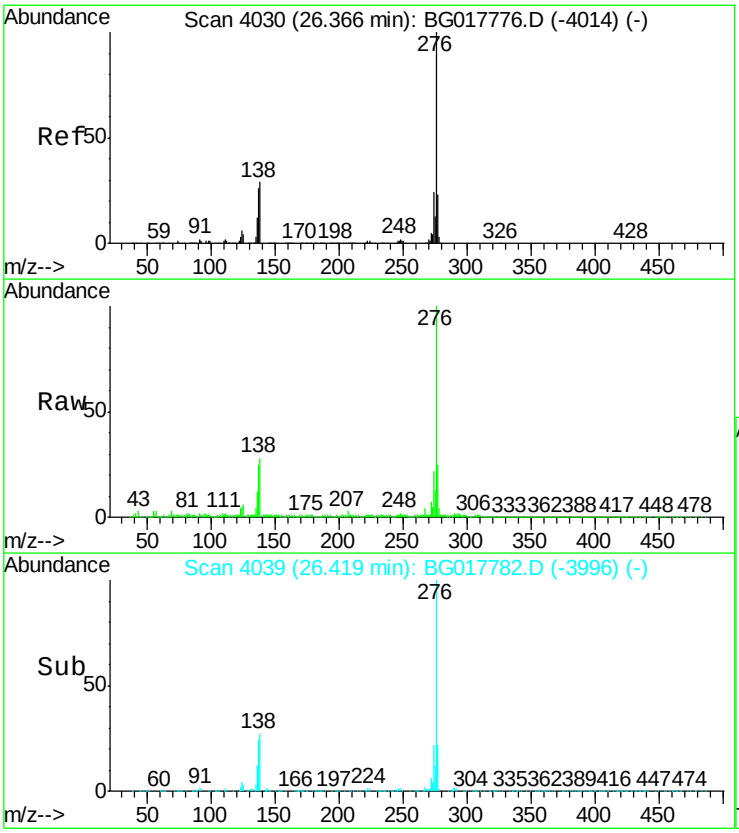


#93
Benzo(g,h,i)perylene
Concen: 19.73 ng/ul
RT: 26.42 min Scan# 4039
Delta R.T. 0.05 min
Lab File: BG017782.D
Acq: 6 Jul 2015 23:05

Tgt Ion:276 Resp: 1196319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 28.4 | 25.1 | 37.7 |
| 277 | 24.8 | 18.7 | 28.1 |