Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011216\
Data File : BG020700.D
Acq On : 13 Jan 2016 10:25
Operator : SJ/IZ
Sample : H1094-11
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC972

**Manual Integrations APPROVED**
MMdadoda
1/13/2016 3:31:27 PM

Quant Time: Jan 13 12:10:25 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Jan 13 07:56:00 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 8.04 | 152 | 13482 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.86 | 136 | 61873 | 20.00 | ng/ul | 0.00 |
| 36) Acenaphthene-d10 | 14.68 | 164 | 46222 | 20.00 | ng/ul | 0.00 |
| 62) Phenanthrene-d10 | 17.43 | 188 | 115760 | 20.00 | ng/ul | 0.00 |
| 78) Chrysene-d12 | 21.70 | 240 | 135395 | 20.00 | ng/ul | 0.00 |
| 86) Perylene-d12 | 24.95 | 264 | 128978 | 20.00 | ng/ul | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 3) 1,4-Dioxane-d8 | 3.40 | 96 | 863 | 3.13 | ng/uL | 0.00 |
| 5) Phenol-d5 | 7.20 | 99 | 25905 | 22.42 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d | 7.36 | 67 | 16178 | 23.28 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4 | 7.57 | 132 | 21714 | 23.96 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8 | 8.75 | 113 | 21202 | 21.76 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5 | 9.21 | 128 | 10853 | 22.23 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4 | 9.94 | 143 | 12925 | 22.79 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3 | 10.48 | 165 | 24926 | 23.08 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4 | 11.00 | 131 | 19775 | 18.50 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6 | 14.08 | 166 | 92491 | 22.93 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8 | 14.38 | 160 | 108017 | 23.85 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4 | 14.89 | 143 | 8729 | 16.12 | ng/ul | 0.00 |
| 58) Fluorene-d10 | 15.67 | 176 | 85773 | 23.85 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.80 | 200 | 12124 | 19.26 | ng/ul | 0.00 |
| 71) Anthracene-d10 | 17.53 | 188 | 137180 | 24.18 | ng/ul | 0.00 |
| 79) Pyrene-d10 | 19.81 | 212 | 158654 | 24.63 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12 | 24.74 | 264 | 171906 | 25.00 | ng/ul | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 28) Naphthalene | 10.91 | 128 | 5231 | 1.50 | ng/ul# | 89 |
| 45) Dimethylphthalate | 14.12 | 163 | 29190 | 6.74 | ng/ul# | 95 |
| 50) Acenaphthene | 14.74 | 153 | 3931 | 1.19 | ng/ul | 94 |
| 59) Fluorene | 15.73 | 166 | 5377 | 1.33 | ng/ul# | 90 |
| 70) Phenanthrene | 17.47 | 178 | 148740 | 21.60 | ng/ul | 98 |
| 72) Anthracene | 17.56 | 178 | 20109 | 2.89 | ng/ul | 95 |
| 75) Carbazole | 17.83 | 167 | 11986 | 2.10 | ng/ul | 96 |
| 77) Fluoranthene | 19.48 | 202 | 338859 | 40.47 | ng/ul | 100 |
| 80) Pyrene | 19.84 | 202 | 401987 | 46.82 | ng/ul | 99 |
| 83) Benzo(a)anthracene | 21.68 | 228 | 201275 | 23.83 | ng/ul | 98 |
| 85) Chrysene | 21.75 | 228 | 228962 | 28.67 | ng/ul | 98 |
| 88) Benzo(b)fluoranthene | 23.92 | 252 | 260367 | 31.34 | ng/ul | 99 |
| 89) Benzo(k)fluoranthene | 23.98 | 252 | 69190m | 8.43 | ng/ul | |
| 91) Benzo(a)pyrene | 24.81 | 252 | 199227 | 24.92 | ng/ul | 95 |
| 92) Indeno(1,2,3-cd)pyrene | 28.67 | 276 | 131212 | 13.91 | ng/ul | 100 |
| 93) Dibenzo(a,h)anthracene | 28.71 | 278 | 37671m | 4.85 | ng/ul | |
| 94) Benzo(g,h,i)perylene | 29.85 | 276 | 132706 | 17.05 | ng/ul | 99 |

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

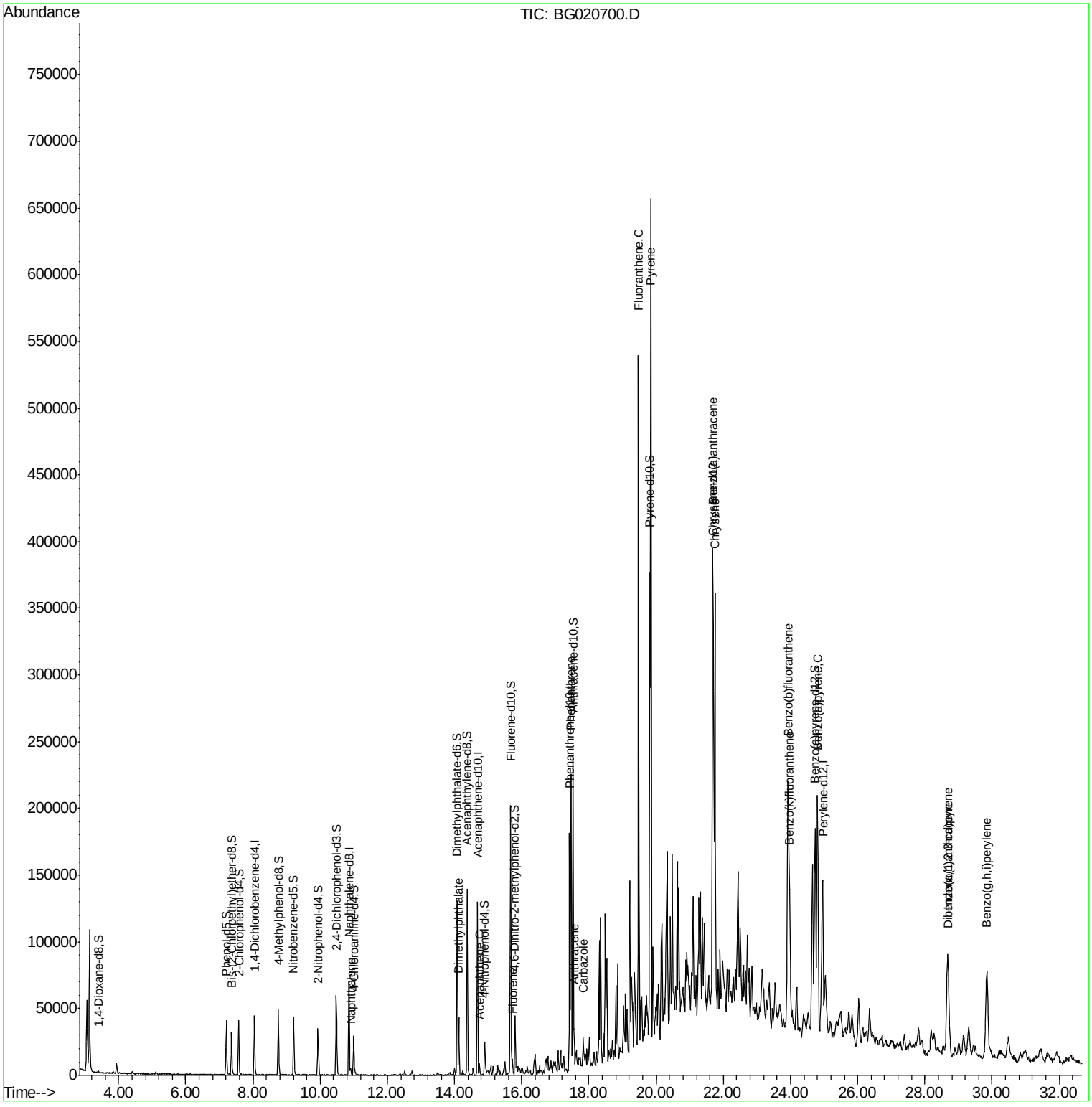
Quantitation Report (LSC Reviewed)

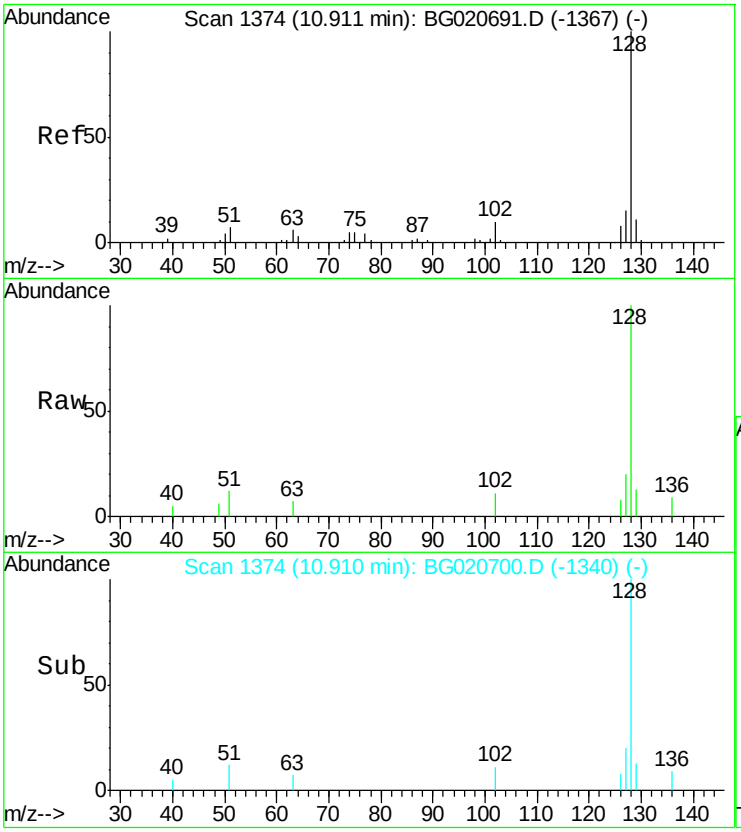
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011216\
Data File : BG020700.D
Acq On : 13 Jan 2016 10:25
Operator : SJ/IZ
Sample : H1094-11
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jan 13 12:10:25 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Jan 13 07:56:00 2016
Response via : Initial Calibration

**Instrument :**
BNA_G
**ClientSampleId :**
BC972

**Manual Integrations APPROVED**
MMdadoda
1/13/2016 3:31:27 PM






#28
Naphthalene
Concen: 1.50 ng/ul
RT: 10.91 min Scan# 1374
Delta R.T. -0.00 min
Lab File: BG020700.D
Acq: 13 Jan 2016 10:25

**Instrument :**
BNA_G
**ClientSampleId :**
BC972

**Manual Integrations APPROVED**
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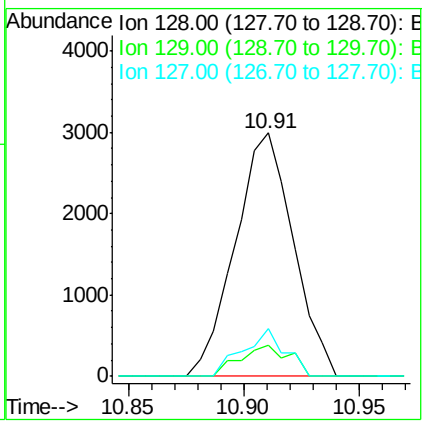
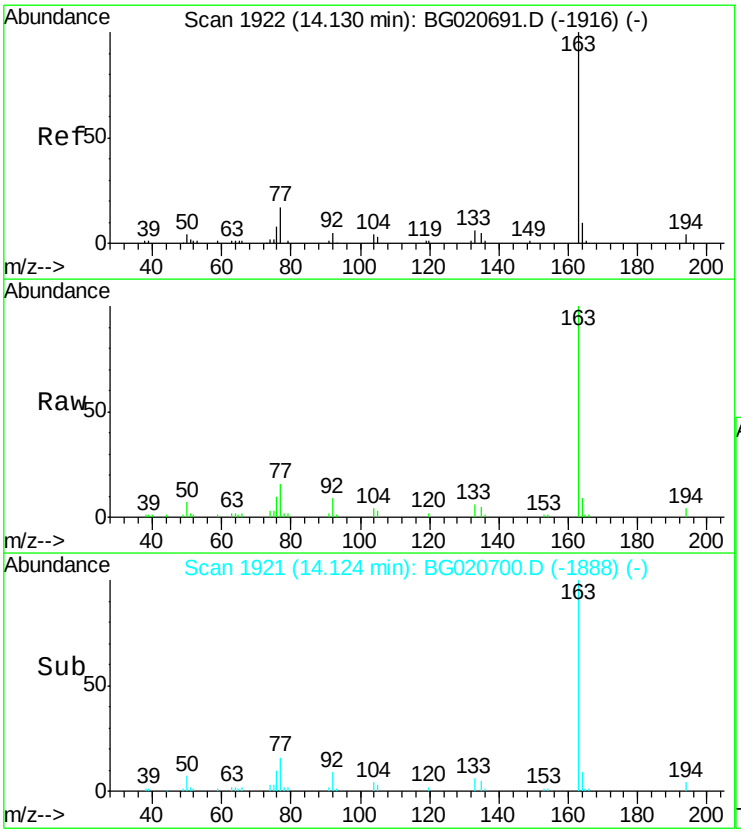
Tgt Ion:128 Resp: 5231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.9 | 8.3 | 12.5# |
| 127 | 19.5 | 10.8 | 16.2# |

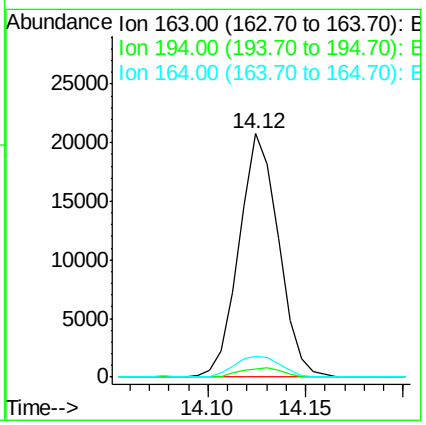


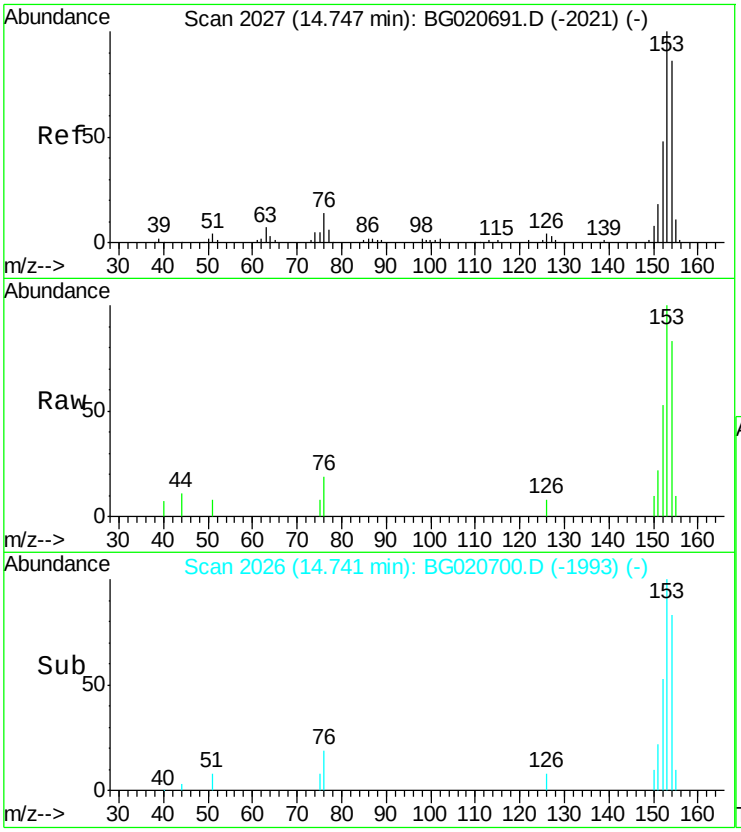




#45
Dimethylphthalate
Concen: 6.74 ng/ul
RT: 14.12 min Scan# 1921
Delta R.T. -0.01 min
Lab File: BG020700.D
Acq: 13 Jan 2016 10:25

Tgt Ion:163 Resp: 29190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.5 | 4.0 | 6.0# |
| 164 | 8.6 | 8.4 | 12.6 |

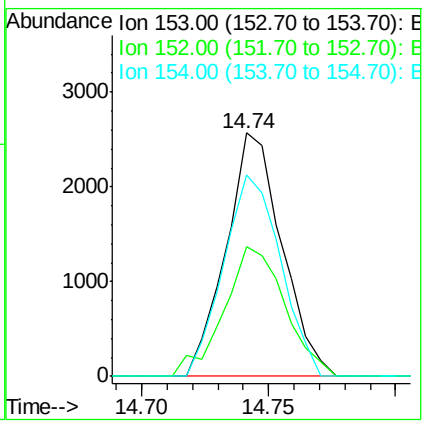





#50
Acenaphthene
Concen: 1.19 ng/ul
RT: 14.74 min Scan# 2026
Delta R.T. -0.01 min
Lab File: BG020700.D
Acq: 13 Jan 2016 10:25

Tgt Ion:153 Resp: 3931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 153 | 100 | | |
| 152 | 53.1 | 37.9 | 56.9 |
| 154 | 82.6 | 69.8 | 104.6 |




**Instrument :**
BNA_G
**ClientSampleId :**
BC972

**Manual Integrations APPROVED**
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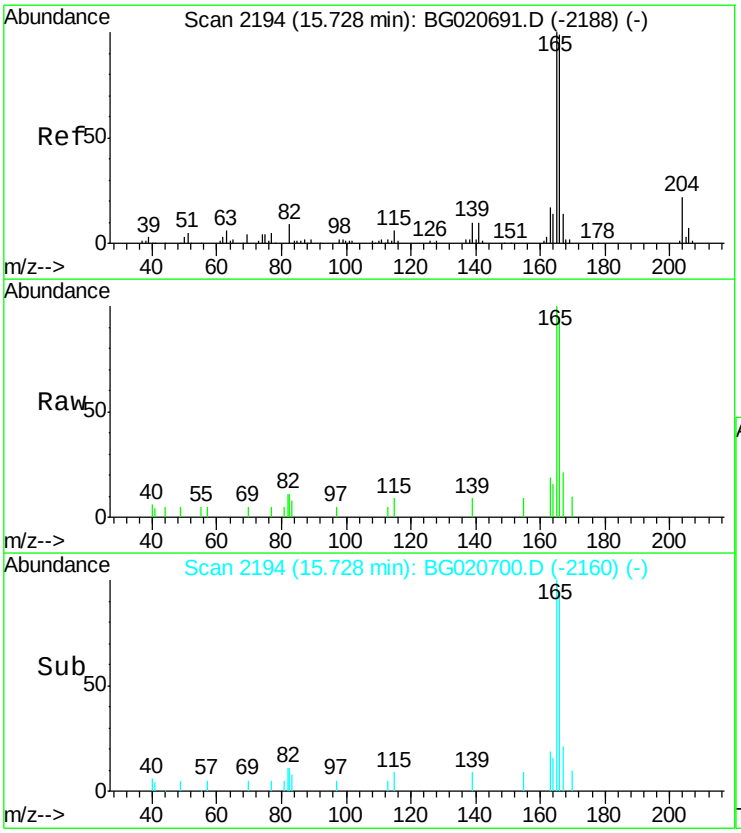
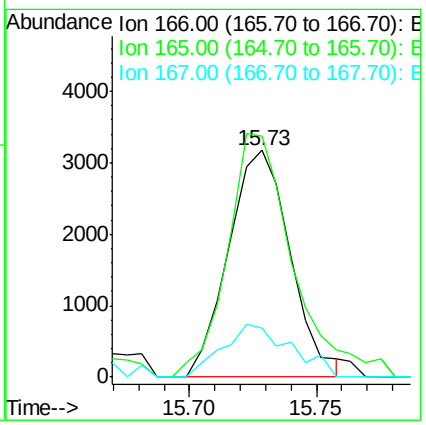
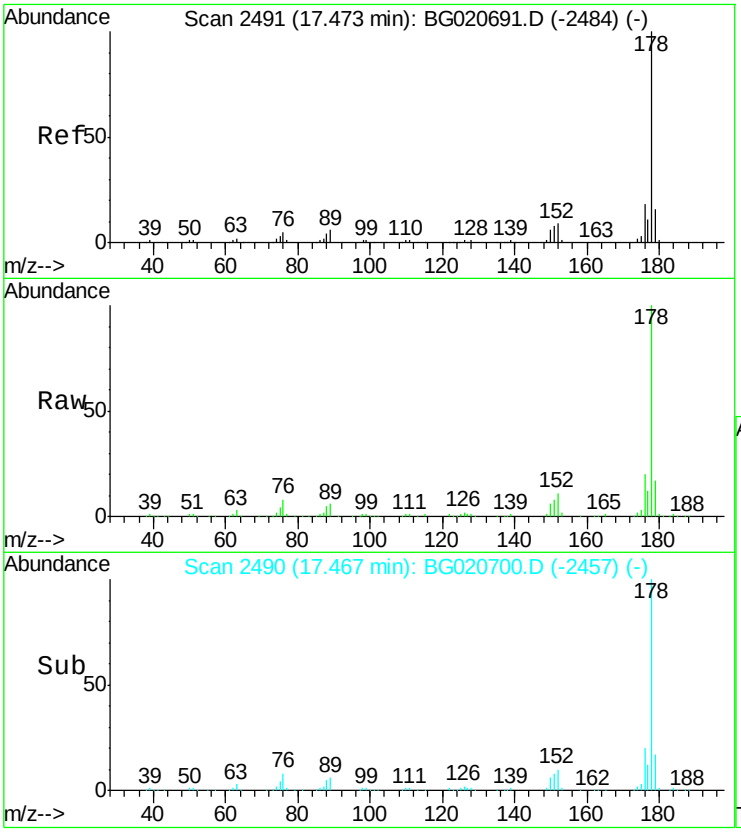



#59
Fluorene
Concen: 1.33 ng/ul
RT: 15.73 min Scan# 2194
Delta R.T. -0.00 min
Lab File: BG020700.D
Acq: 13 Jan 2016 10:25

Tgt Ion:166 Resp: 5377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 106.2 | 78.4 | 117.6 |
| 167 | 21.8 | 11.1 | 16.7# |

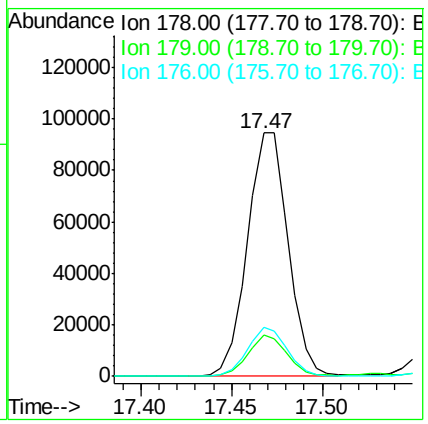





#70
Phenanthrene
Concen: 21.60 ng/ul
RT: 17.47 min Scan# 2490
Delta R.T. -0.01 min
Lab File: BG020700.D
Acq: 13 Jan 2016 10:25

Tgt Ion:178 Resp: 148740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 16.8 | 12.3 | 18.5 |
| 176 | 20.0 | 15.4 | 23.0 |




**Instrument :**
BNA_G
**ClientSampleId :**
BC972

**Manual Integrations APPROVED**
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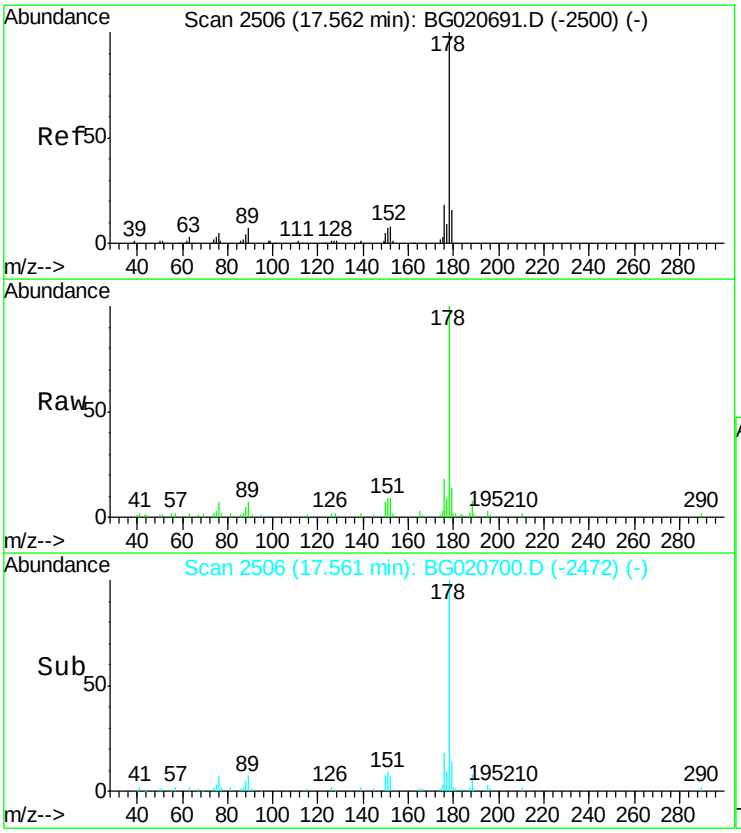
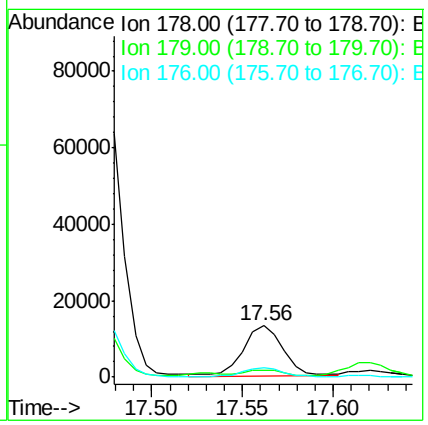
1/13/2016 3:31:27 PM

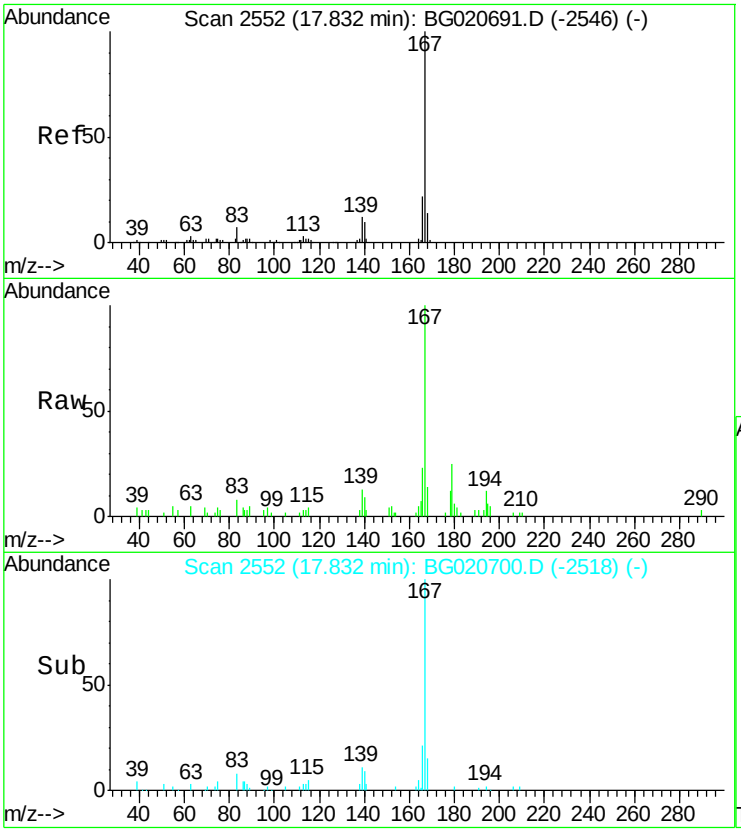



#72
Anthracene
Concen: 2.89 ng/ul
RT: 17.56 min Scan# 2506
Delta R.T. -0.00 min
Lab File: BG020700.D
Acq: 13 Jan 2016 10:25

Tgt Ion:178 Resp: 20109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 14.0 | 13.4 | 20.2 |
| 176 | 17.6 | 15.4 | 23.0 |

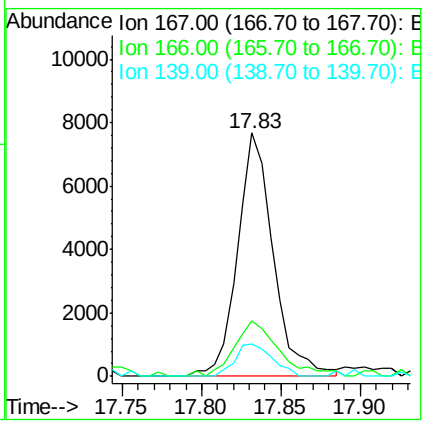





#75
Carbazole
Concen: 2.10 ng/ul
RT: 17.83 min Scan# 2552
Delta R.T. -0.00 min
Lab File: BG020700.D
Acq: 13 Jan 2016 10:25

Tgt Ion:167 Resp: 11986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.6 | 17.0 | 25.4 |
| 139 | 13.4 | 9.1 | 13.7 |




**Instrument :**
BNA_G
**ClientSampleId :**
BC972

**Manual Integrations APPROVED**
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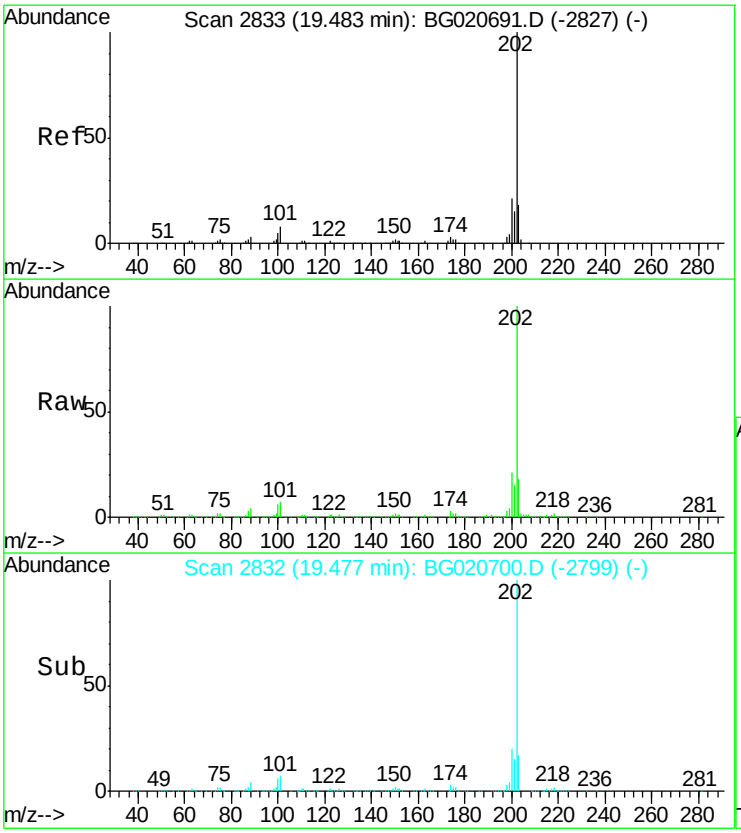
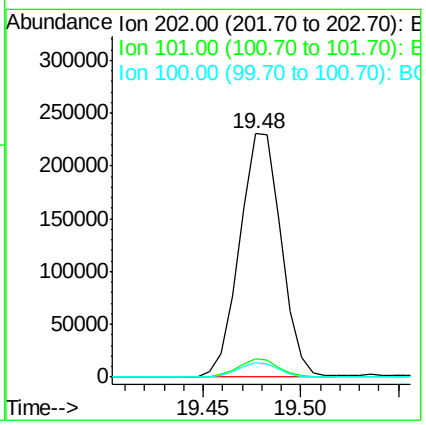
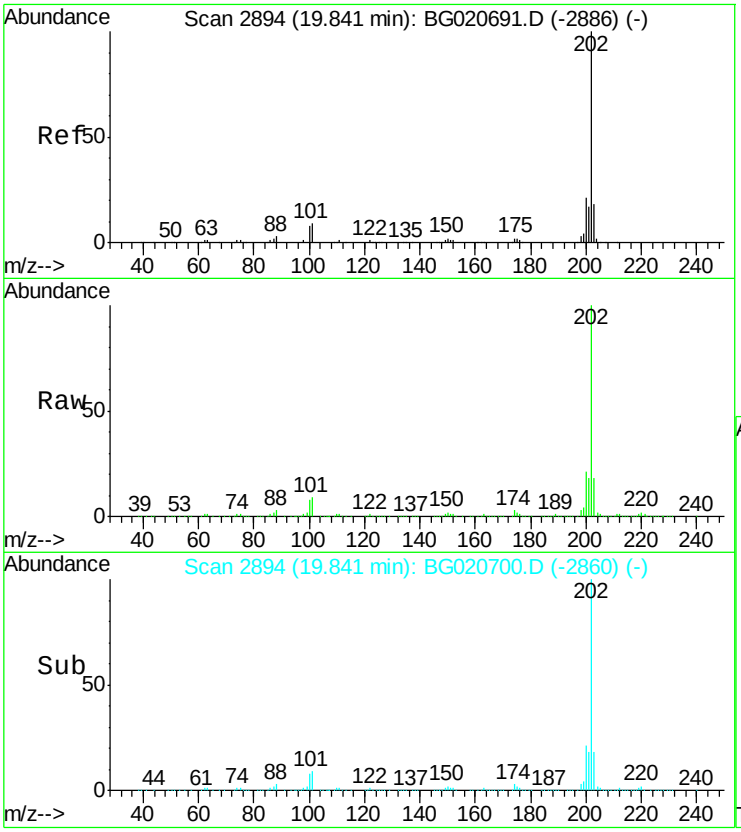



#77
Fluoranthene
Concen: 40.47 ng/ul
RT: 19.48 min Scan# 2832
Delta R.T. -0.01 min
Lab File: BG020700.D
Acq: 13 Jan 2016 10:25

Tgt Ion:202 Resp: 338859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 7.5 | 6.1 | 9.1 |
| 100 | 5.9 | 4.6 | 7.0 |

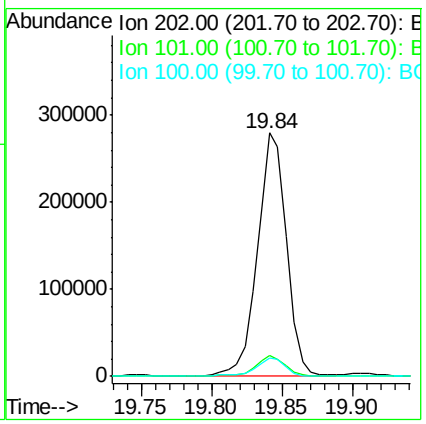





#80
Pyrene
Concen: 46.82 ng/ul
RT: 19.84 min Scan# 2894
Delta R.T. -0.00 min
Lab File: BG020700.D
Acq: 13 Jan 2016 10:25

Tgt Ion:202 Resp: 401987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 8.7 | 6.9 | 10.3 |
| 100 | 7.7 | 5.6 | 8.4 |




**Instrument :**
BNA_G
**ClientSampleId :**
BC972

**Manual Integrations APPROVED**
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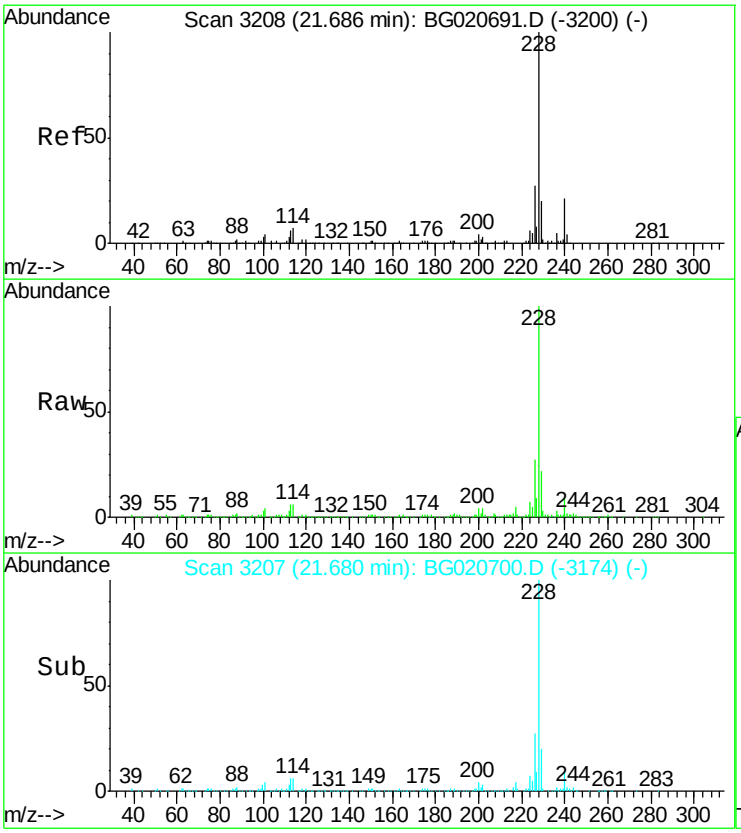
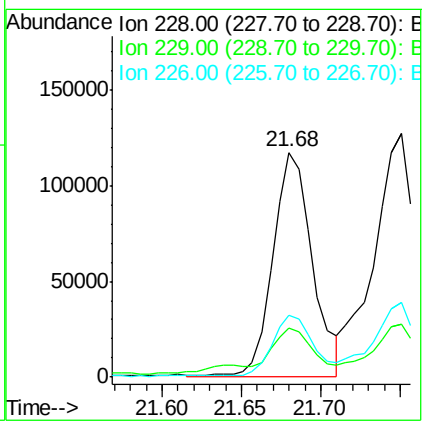
1/13/2016 3:31:27 PM

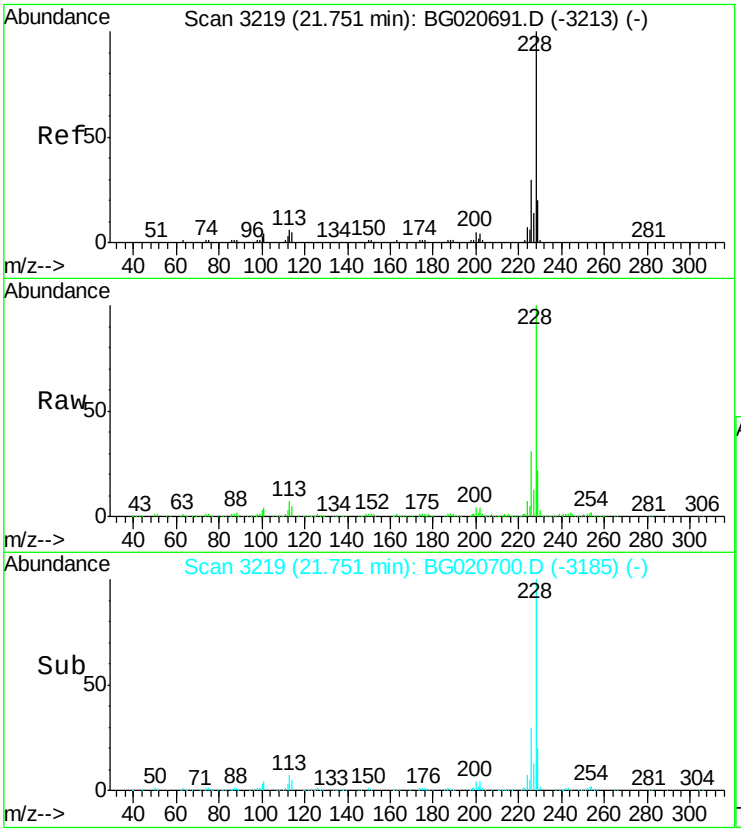



#83
Benzo(a)anthracene
Concen: 23.83 ng/ul
RT: 21.68 min Scan# 3207
Delta R.T. -0.01 min
Lab File: BG020700.D
Acq: 13 Jan 2016 10:25

Tgt Ion:228 Resp: 201275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 21.6 | 16.0 | 24.0 |
| 226 | 27.4 | 21.8 | 32.8 |

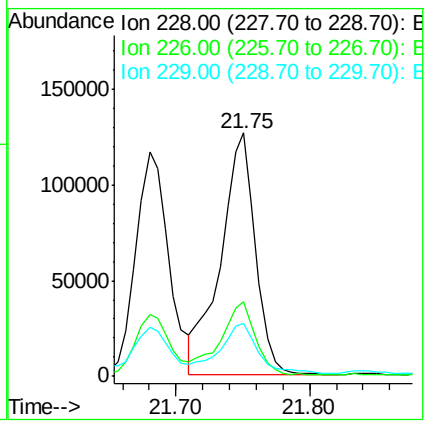





#85
Chrysene
Concen: 28.67 ng/ul
RT: 21.75 min Scan# 3219
Delta R.T. -0.00 min
Lab File: BG020700.D
Acq: 13 Jan 2016 10:25

Tgt Ion:228 Resp: 228962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.7 | 24.1 | 36.1 |
| 229 | 21.6 | 16.0 | 24.0 |




**Instrument :**
BNA_G
**ClientSampleId :**
BC972

**Manual Integrations APPROVED**
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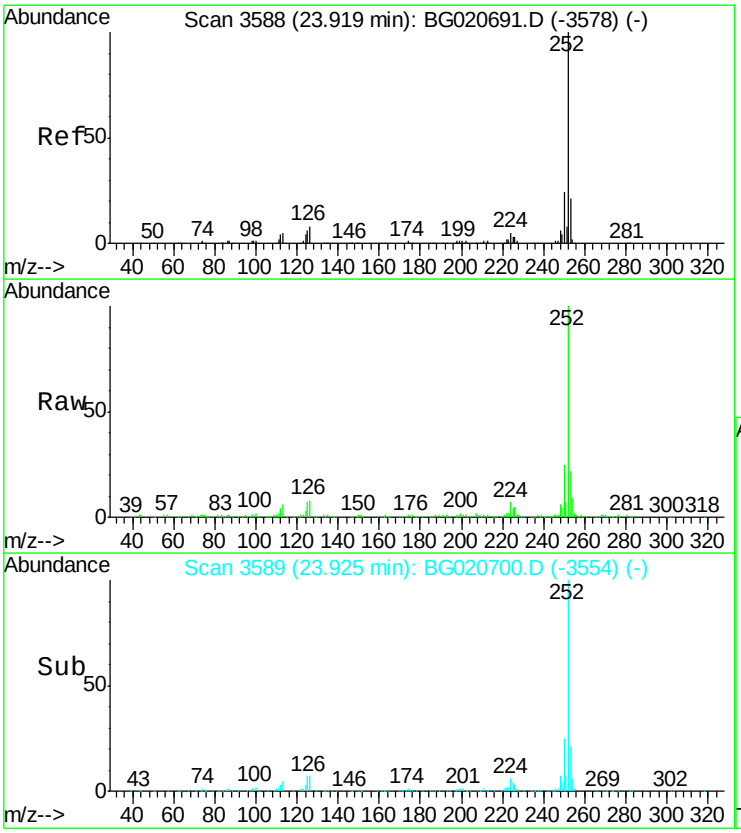
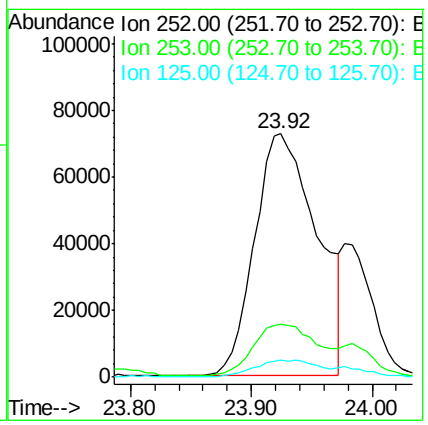
1/13/2016 3:31:27 PM

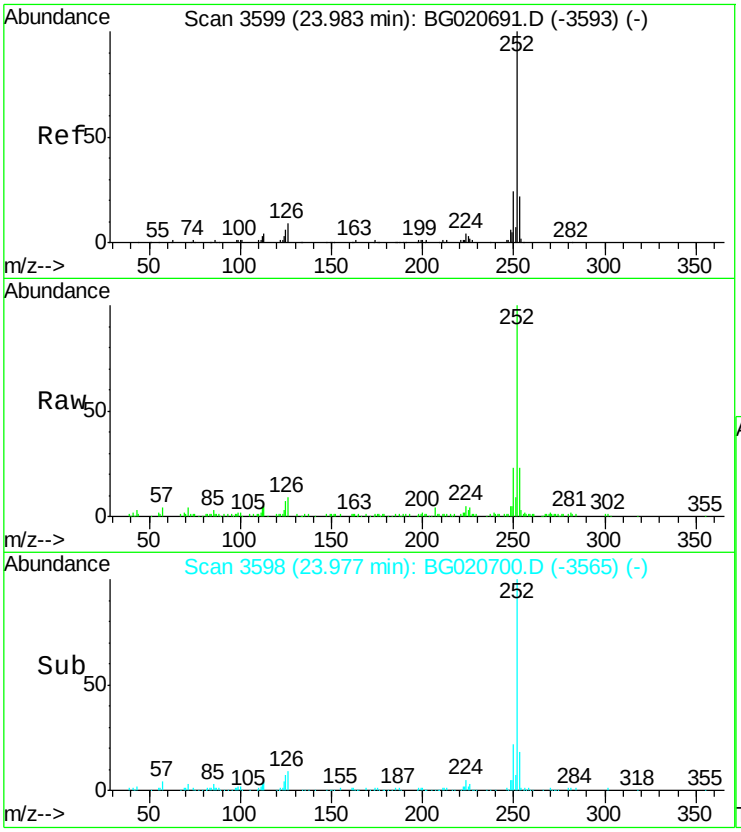



#88
Benzo(b)fluoranthene
Concen: 31.34 ng/ul
RT: 23.92 min Scan# 3589
Delta R.T. 0.01 min
Lab File: BG020700.D
Acq: 13 Jan 2016 10:25

Tgt Ion:252 Resp: 260367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 17.4 | 26.0 |
| 125 | 7.2 | 4.9 | 7.3 |

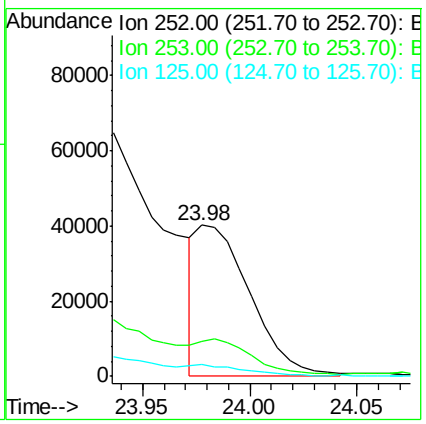





#89
Benzo(k)fluoranthene
Concen: 8.43 ng/ul m
RT: 23.98 min Scan# 3598
Delta R.T. -0.01 min
Lab File: BG020700.D
Acq: 13 Jan 2016 10:25

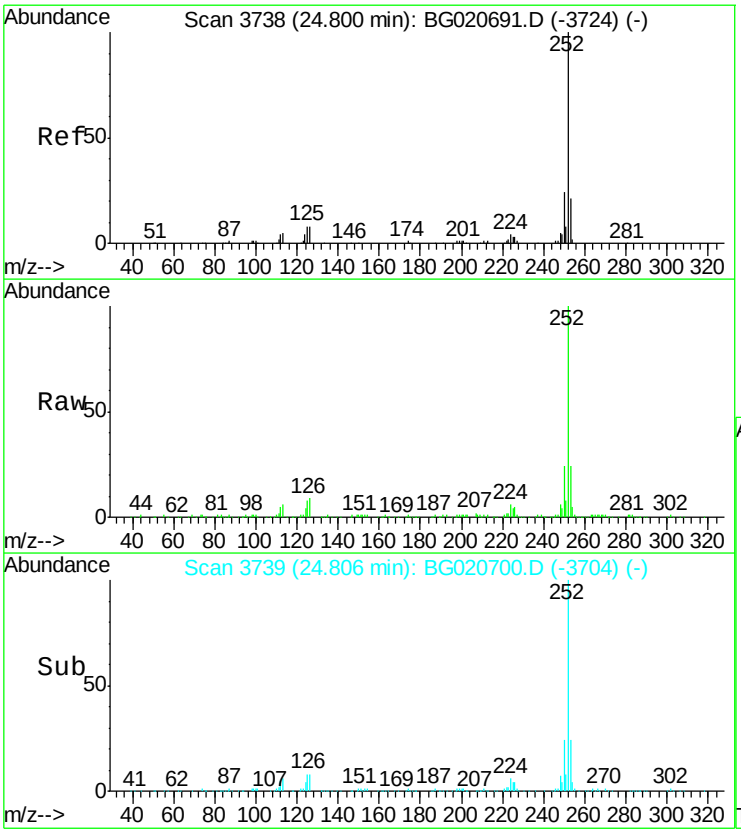
Tgt Ion:252 Resp: 69190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.5 | 17.1 | 25.7 |
| 125 | 7.5 | 5.4 | 8.0 |




**Instrument :**
BNA_G
**ClientSampleId :**
BC972

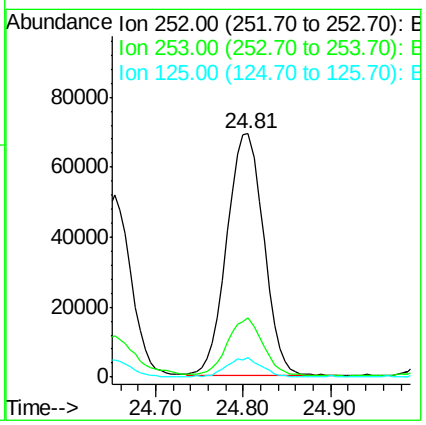
**Manual Integrations APPROVED**
MMdadoda
1/13/2016 3:31:27 PM

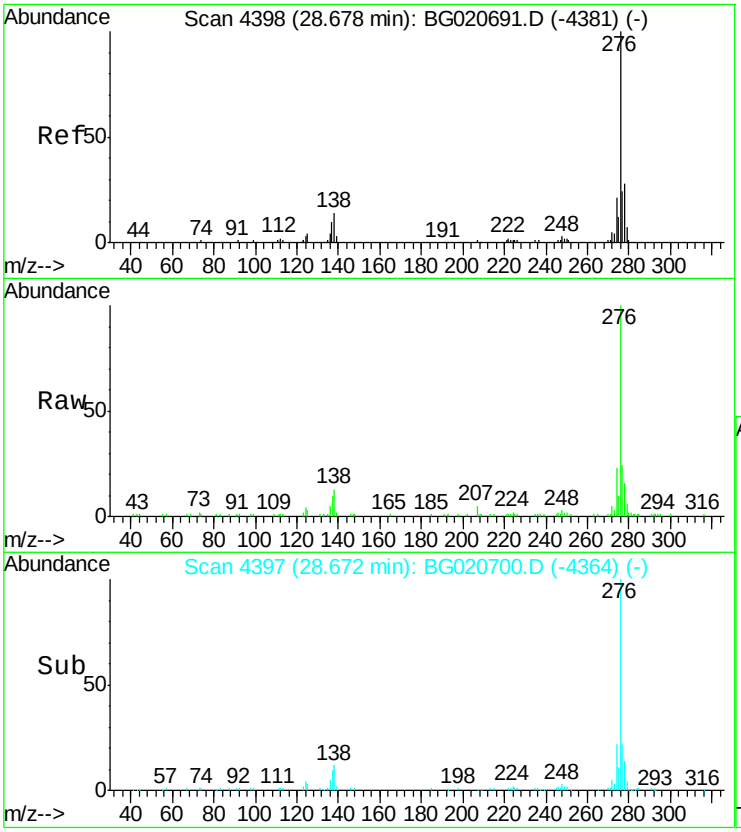



#91
Benzo(a)pyrene
Concen: 24.92 ng/ul
RT: 24.81 min Scan# 3739
Delta R.T. 0.01 min
Lab File: BG020700.D
Acq: 13 Jan 2016 10:25

Tgt Ion:252 Resp: 199227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.4 | 17.2 | 25.8 |
| 125 | 8.0 | 5.8 | 8.6 |

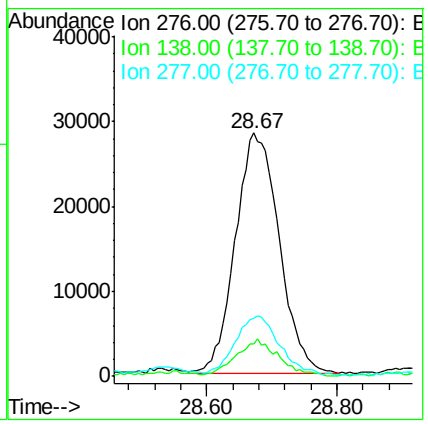





#92
Indeno(1,2,3-cd)pyrene
Concen: 13.91 ng/ul
RT: 28.67 min Scan# 4397
Delta R.T. -0.01 min
Lab File: BG020700.D
Acq: 13 Jan 2016 10:25

Tgt Ion:276 Resp: 131212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 13.4 | 10.9 | 16.3 |
| 277 | 23.9 | 18.9 | 28.3 |




**Instrument :**
BNA_G
**ClientSampleId :**
BC972

**Manual Integrations APPROVED**
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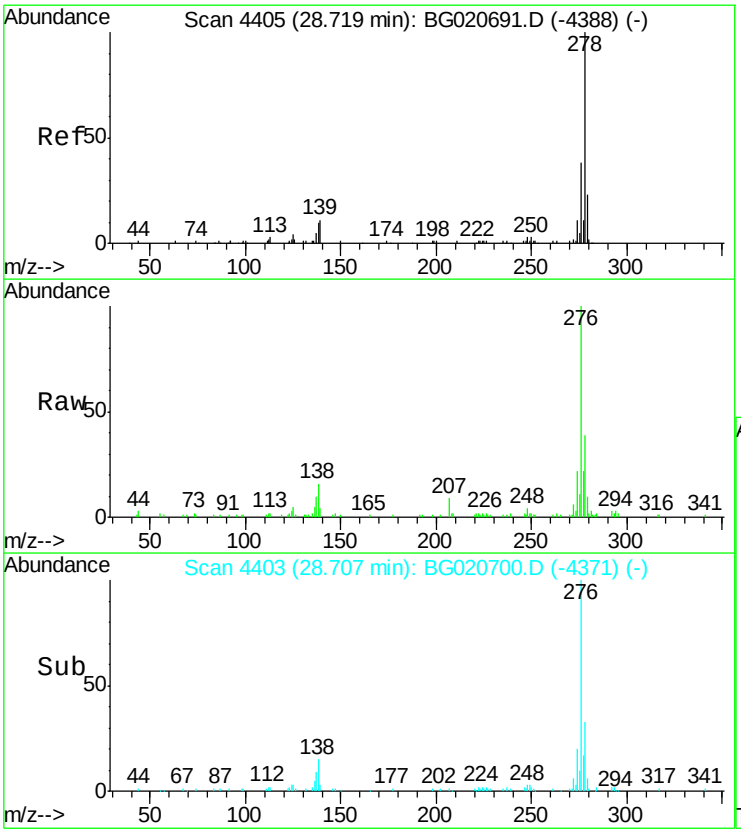
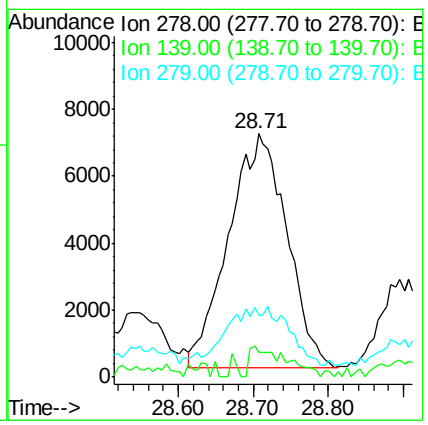
1/13/2016 3:31:27 PM

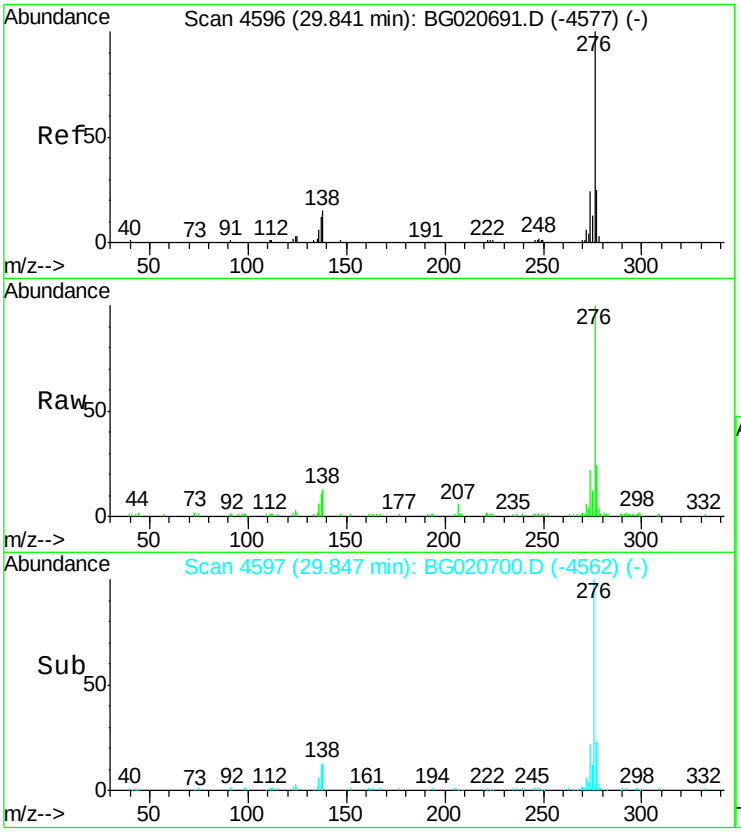



#93
Dibenzo(a,h)anthracene
Concen: 4.85 ng/ul m
RT: 28.71 min Scan# 4403
Delta R.T. -0.01 min
Lab File: BG020700.D
Acq: 13 Jan 2016 10:25

Tgt Ion:278 Resp: 37671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 10.4 | 9.0 | 13.4 |
| 279 | 25.3 | 19.1 | 28.7 |

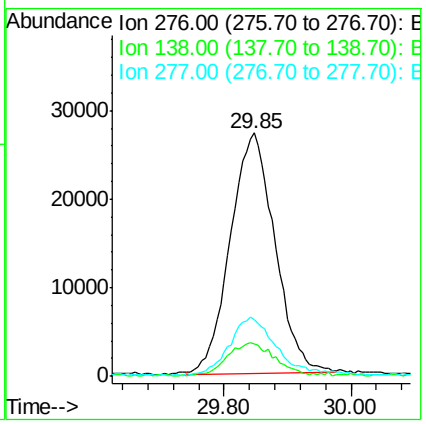





#94
Benzo(g,h,i)perylene
Concen: 17.05 ng/ul
RT: 29.85 min Scan# 4597
Delta R.T. 0.01 min
Lab File: BG020700.D
Acq: 13 Jan 2016 10:25

Tgt Ion:276 Resp: 132706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 13.5 | 11.2 | 16.8 |
| 277 | 23.5 | 19.0 | 28.6 |




**Instrument :**
BNA_G
**ClientSampleId :**
BC972

**Manual Integrations APPROVED**
MMdadoda
1/13/2016 3:31:27 PM