Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122515\
Data File : BG020533.D
Acq On : 26 Dec 2015 10:16
Operator : UM/SJ
Sample : G4802-12
Misc :
ALS Vial : 70 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** G9D87

Quant Time: Dec 28 01:19:45 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG122415.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Dec 28 01:15:44 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 8.07 | 152 | 20678 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.89 | 136 | 88403 | 20.00 | ng/ul | 0.00 |
| 36) Acenaphthene-d10 | 14.71 | 164 | 61545 | 20.00 | ng/ul | 0.00 |
| 62) Phenanthrene-d10 | 17.46 | 188 | 145320 | 20.00 | ng/ul | 0.00 |
| 78) Chrysene-d12 | 21.73 | 240 | 182182 | 20.00 | ng/ul | 0.00 |
| 86) Perylene-d12 | 25.01 | 264 | 182725 | 20.00 | ng/ul | 0.02 |
| **System Monitoring Compounds** | | | | | | |
| 3) 1,4-Dioxane-d8 | 3.45 | 96 | 855 | 2.28 | ng/uL | 0.00 |
| 5) Phenol-d5 | 7.23 | 99 | 23931 | 14.42 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d | 7.40 | 67 | 16093 | 16.37 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4 | 7.60 | 132 | 20111 | 15.80 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8 | 8.78 | 113 | 14751 | 10.57 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5 | 9.24 | 128 | 11301 | 16.31 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4 | 9.97 | 143 | 13503 | 17.14 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3 | 10.51 | 165 | 22576 | 14.81 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4 | 11.03 | 131 | 14644 | 8.41 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6 | 14.11 | 166 | 76508 | 15.08 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8 | 14.41 | 160 | 98261 | 16.72 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4 | 14.92 | 143 | 7902 | 9.34 | ng/ul | 0.00 |
| 58) Fluorene-d10 | 15.70 | 176 | 75861 | 16.54 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.82 | 200 | 8019 | 8.33 | ng/ul | 0.00 |
| 71) Anthracene-d10 | 17.56 | 188 | 119195 | 17.51 | ng/ul | 0.00 |
| 79) Pyrene-d10 | 19.84 | 212 | 140632 | 17.83 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12 | 24.78 | 264 | 163481 | 17.70 | ng/ul | 0.02 |
| **Target Compounds** | | | | | | Qvalue |
| 4) Benzaldehyde | 7.21 | 77 | 2757 | 2.74 | ng/ul# | 1 |
| 14) Acetophenone | 8.88 | 105 | 2601 | 1.16 | ng/ul# | 31 |
| 17) Hexachloroethane | 9.18 | 117 | 2820 | 5.03 | ng/ul# | 1 |
| 28) Naphthalene | 10.95 | 128 | 212043 | 45.12 | ng/ul | 98 |
| 30) 4-Chloroaniline | 10.95 | 127 | 28857 | 16.43 | ng/ul# | 6 |
| 34) 2-Methylnaphthalene | 12.54 | 142 | 101139 | 29.09 | ng/ul | 100 |
| 35) 1-Methylnaphthalene | 12.76 | 142 | 87801 | 26.58 | ng/ul | 96 |
| 41) 1,1'-Biphenyl | 13.54 | 154 | 16645 | 3.50 | ng/ul | 97 |
| 45) Dimethylphthalate | 14.15 | 163 | 44101 | 8.55 | ng/ul | 99 |
| 48) Acenaphthylene | 14.44 | 152 | 90659 | 14.68 | ng/ul | 99 |
| 50) Acenaphthene | 14.77 | 153 | 12737 | 3.05 | ng/ul | 93 |
| 54) Dibenzofuran | 15.11 | 168 | 10512 | 1.69 | ng/ul | 91 |
| 59) Fluorene | 15.76 | 166 | 38627 | 7.67 | ng/ul | 96 |
| 70) Phenanthrene | 17.50 | 178 | 236159 | 29.21 | ng/ul | 99 |
| 72) Anthracene | 17.59 | 178 | 51660 | 6.25 | ng/ul | 100 |
| 77) Fluoranthene | 19.51 | 202 | 127853 | 12.57 | ng/ul | 98 |
| 80) Pyrene | 19.87 | 202 | 273072 | 26.51 | ng/ul | 97 |
| 83) Benzo(a)anthracene | 21.71 | 228 | 128200 | 11.98 | ng/ul# | 89 |
| 85) Chrysene | 21.78 | 228 | 160150 | 15.71 | ng/ul | 91 |
| 88) Benzo(b)fluoranthene | 23.97 | 252 | 299827 | 27.34 | ng/ul | 96 |
| 89) Benzo(k)fluoranthene | 23.97 | 252 | 299827 | 28.28 | ng/ul | 99 |
| 91) Benzo(a)pyrene | 24.86 | 252 | 306676 | 29.09 | ng/ul | 97 |
| 92) Indeno(1,2,3-cd)pyrene | 28.74 | 276 | 200883 | 15.91 | ng/ul | 97 |

Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122515\
Data File : BG020533.D
Acq On : 26 Dec 2015 10:16
Operator : UM/SJ
Sample : G4802-12
Misc :
ALS Vial : 70 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
G9D87

Quant Time: Dec 28 01:19:45 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG122415.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Dec 28 01:15:44 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 93) Dibenzo(a,h)anthracene | 28.78 | 278 | 66256 | 6.32 | ng/ul | 96 |
| 94) Benzo(g,h,i)perylene | 29.92 | 276 | 239938 | 23.14 | ng/ul | 98 |

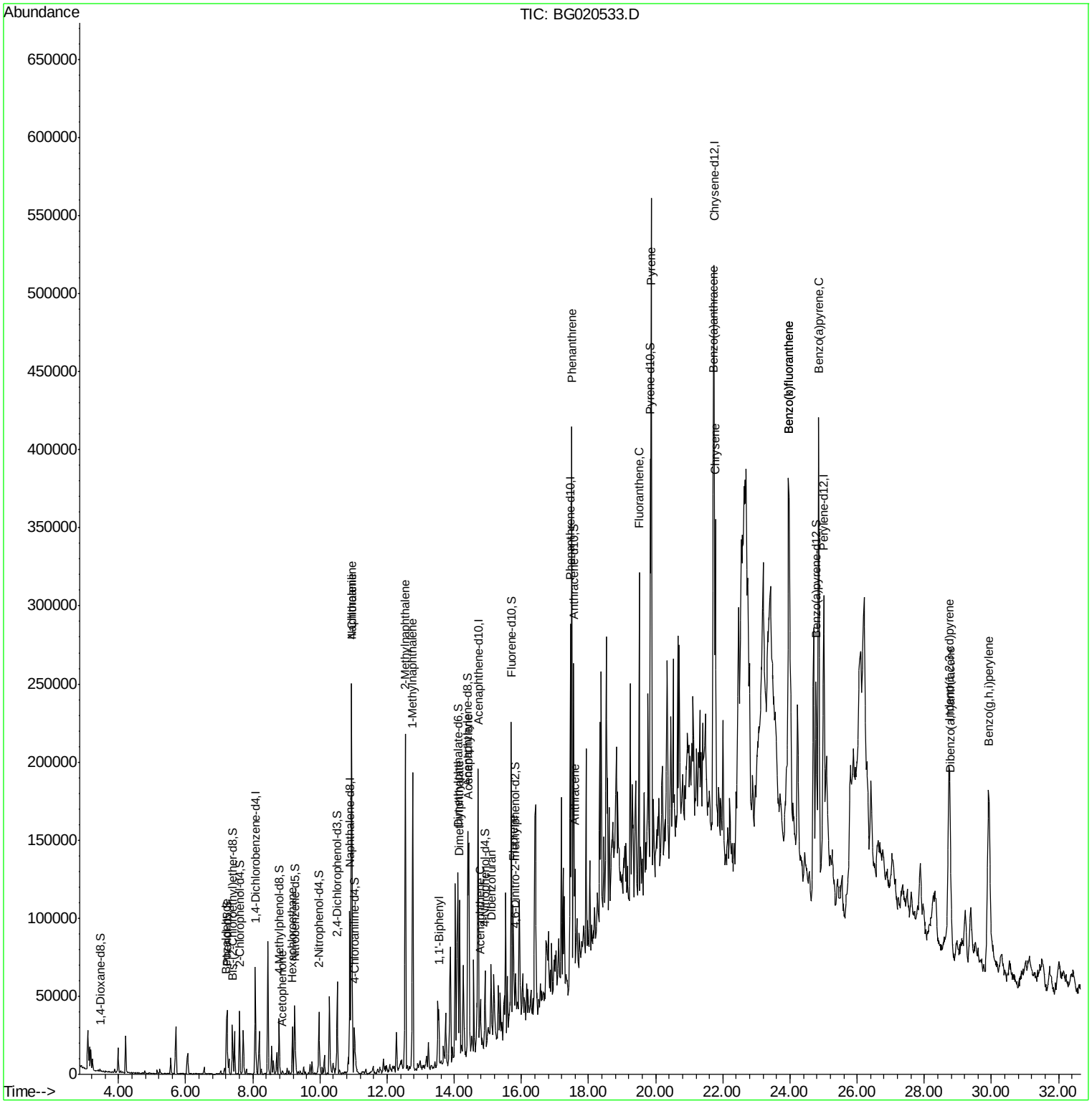
(#) = qualifier out of range (m) = manual integration (+) = signals summed

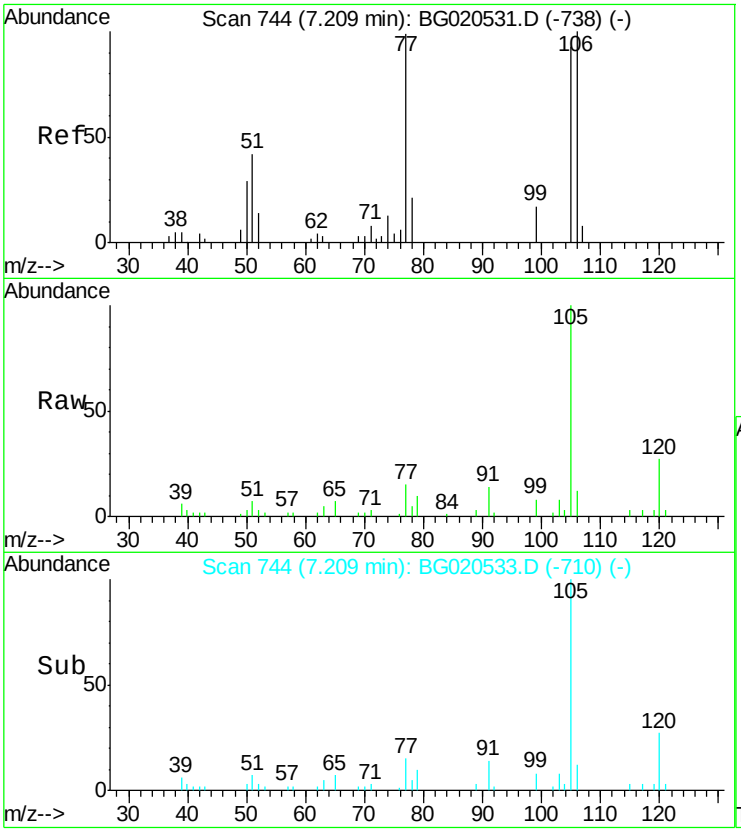
Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122515\
Data File : BG020533.D
Acq On : 26 Dec 2015 10:16
Operator : UM/SJ
Sample : G4802-12
Misc :
ALS Vial : 70 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** G9D87

Quant Time: Dec 28 01:19:45 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG122415.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Dec 28 01:15:44 2015
Response via : Initial Calibration



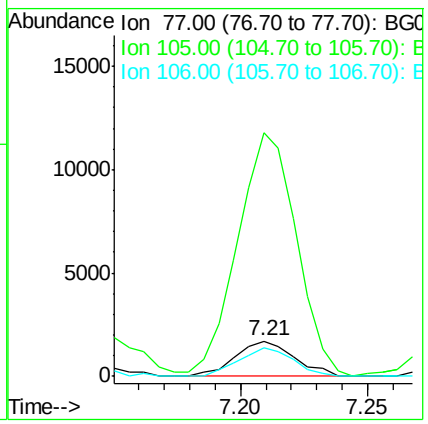


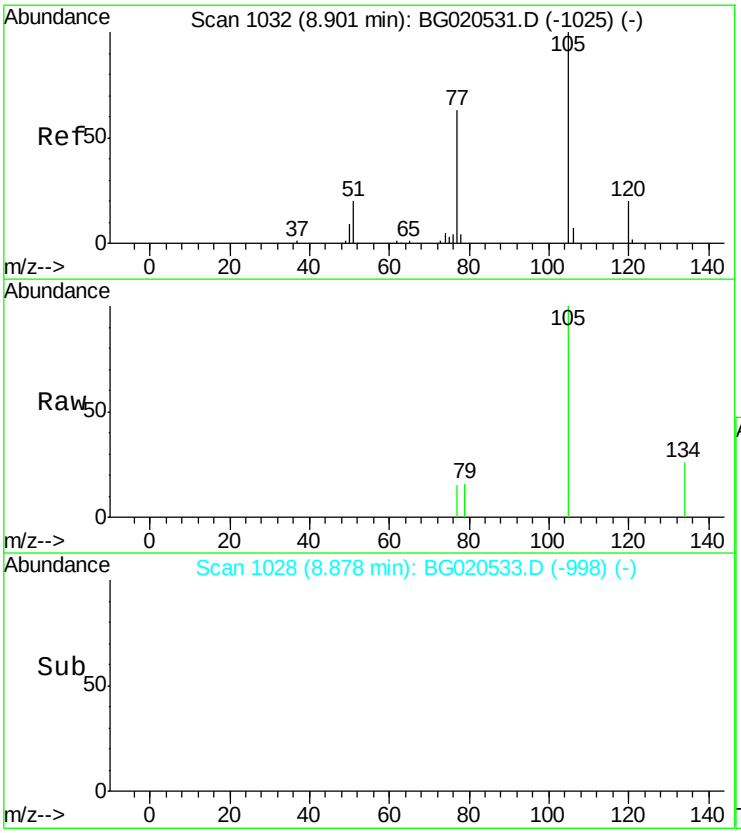

#4
Benzaldehyde
Concen: 2.74 ng/ul
RT: 7.21 min Scan# 744
Delta R.T. -0.00 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

**Instrument :**
BNA_G
**ClientSampleId :**
G9D87

Tgt Ion: 77 Resp: 2757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 686.0 | 77.8 | 116.6# |
| 106 | 80.7 | 72.6 | 109.0 |

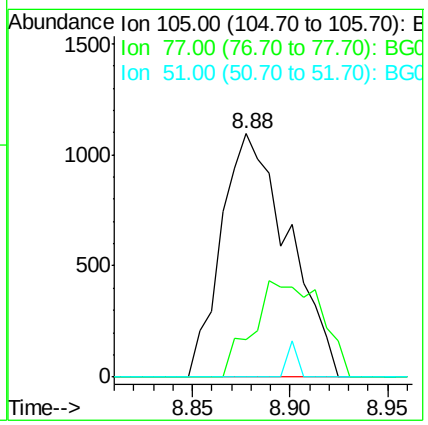


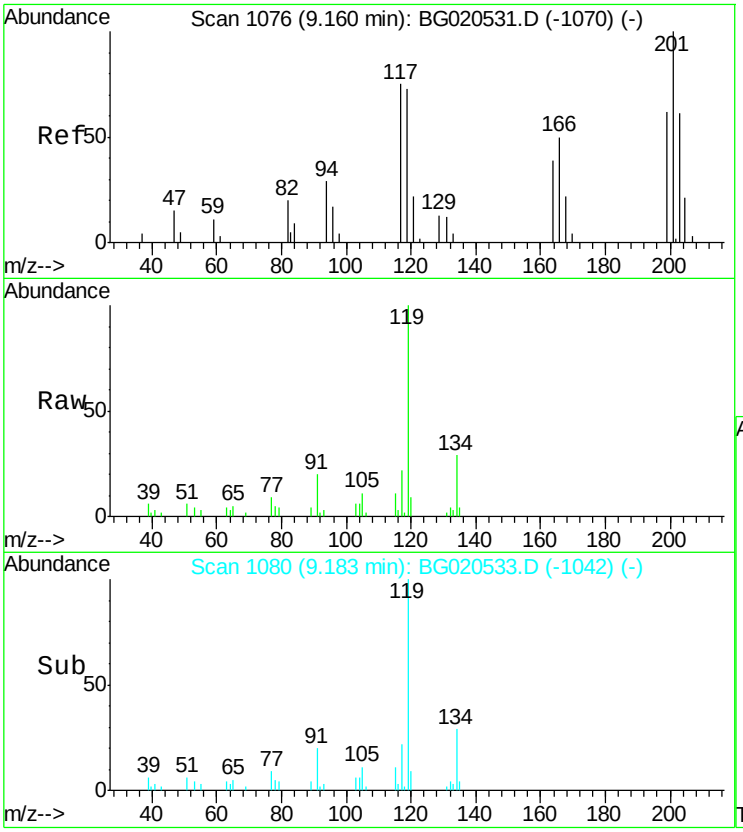




#14
Acetophenone
Concen: 1.16 ng/ul
RT: 8.88 min Scan# 1028
Delta R.T. -0.02 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

Tgt Ion:105 Resp: 2601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 77 | 15.3 | 65.2 | 97.8# |
| 51 | 0.0 | 22.6 | 33.8# |



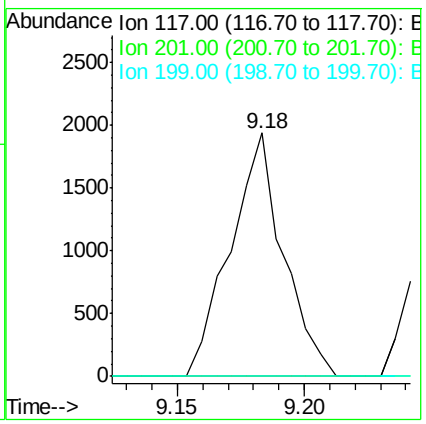


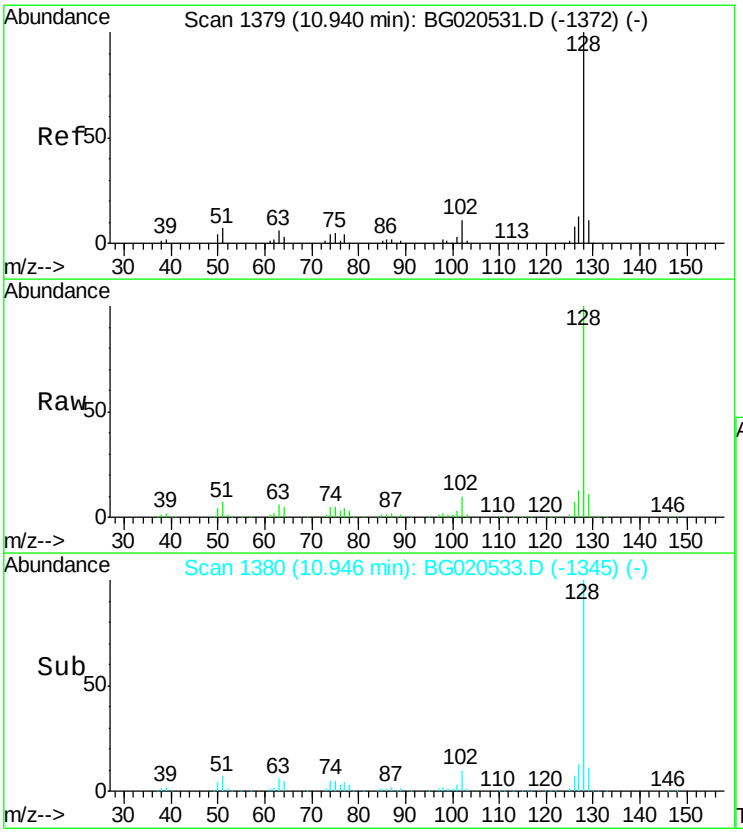

#17
Hexachloroethane
Concen: 5.03 ng/ul
RT: 9.18 min Scan# 1080
Delta R.T. 0.02 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

**Instrument :**
BNA_G
**ClientSampleId :**
G9D87

Tgt Ion:117 Resp: 2820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 0.0 | 102.7 | 154.1# |
| 199 | 0.0 | 65.8 | 98.8# |

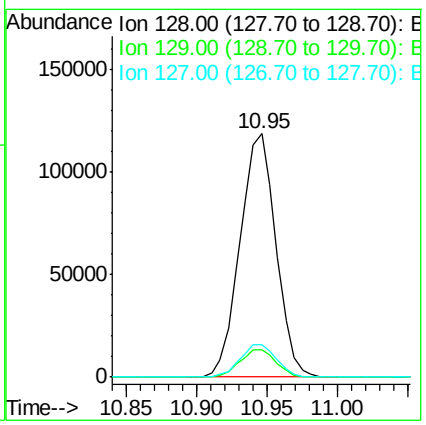


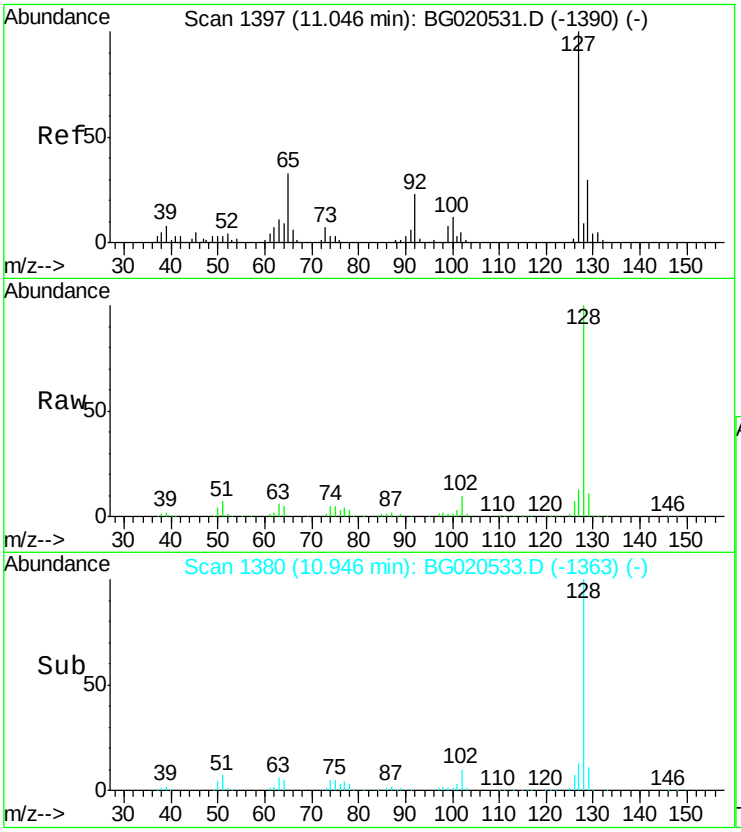




#28
Naphthalene
Concen: 45.12 ng/ul
RT: 10.95 min Scan# 1380
Delta R.T. 0.01 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

Tgt Ion:128 Resp: 212043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.3 | 8.6 | 12.8 |
| 127 | 13.4 | 10.1 | 15.1 |



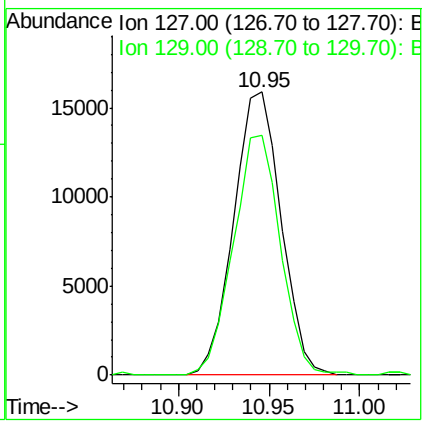


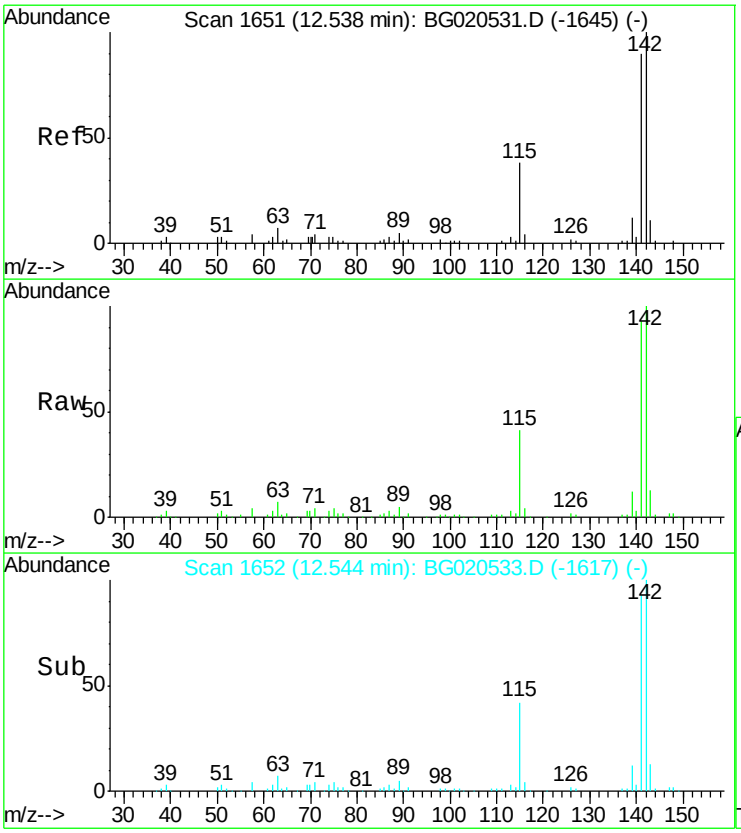

#30
4-Chloroaniline
Concen: 16.43 ng/ul
RT: 10.95 min Scan# 1380
Delta R.T. -0.10 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

**Instrument :**
BNA_G
**ClientSampleId :**
G9D87

Tgt Ion:127 Resp: 28857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 84.8 | 25.7 | 38.5# |

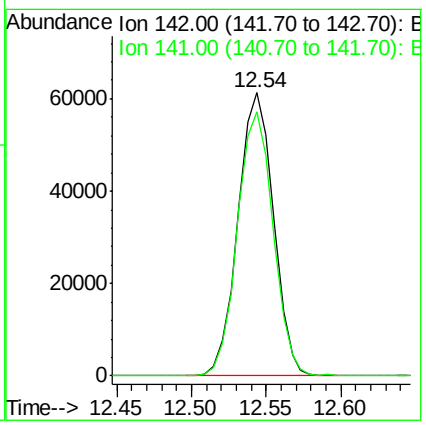


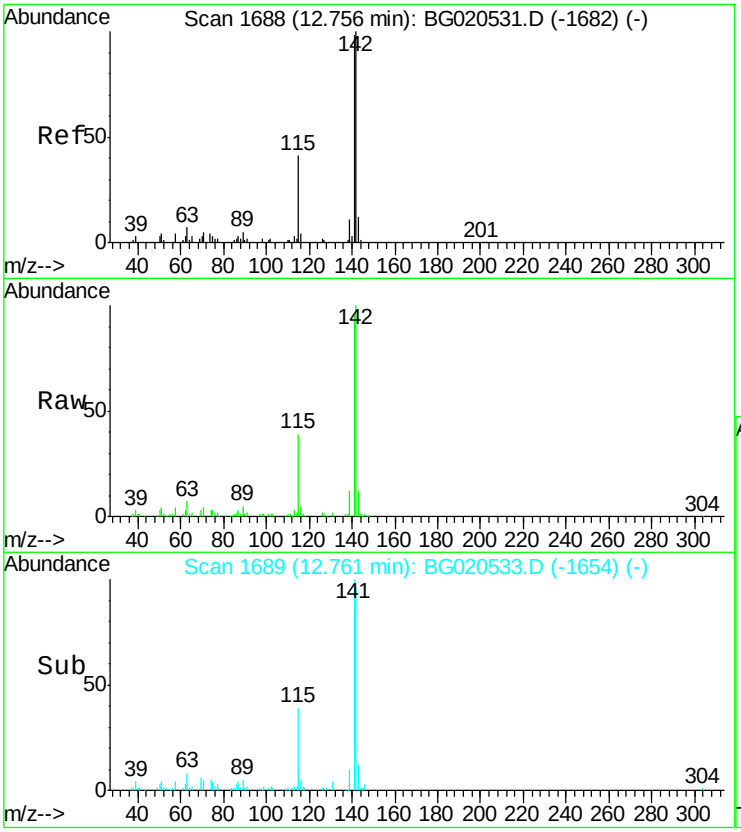




#34
2-Methylnaphthalene
Concen: 29.09 ng/ul
RT: 12.54 min Scan# 1652
Delta R.T. 0.01 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

Tgt Ion:142 Resp: 101139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 93.4 | 74.9 | 112.3 |



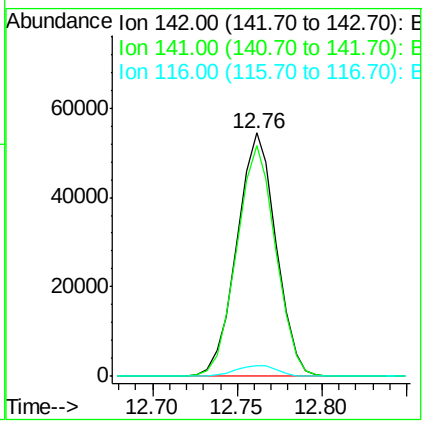


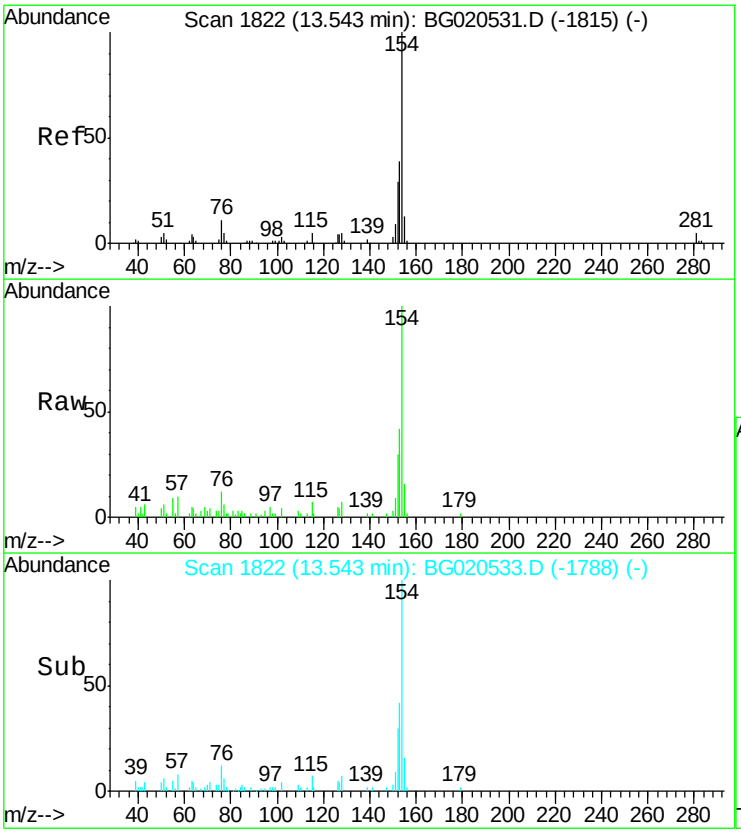

#35
1-Methylnaphthalene
Concen: 26.58 ng/ul
RT: 12.76 min Scan# 1689
Delta R.T. 0.01 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

**Instrument :**
BNA_G
**ClientSampleId :**
G9D87

Tgt Ion:142 Resp: 87801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 94.9 | 73.0 | 109.6 |
| 116 | 4.5 | 3.0 | 4.6 |

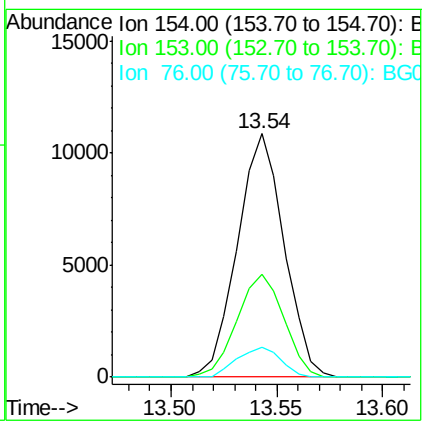


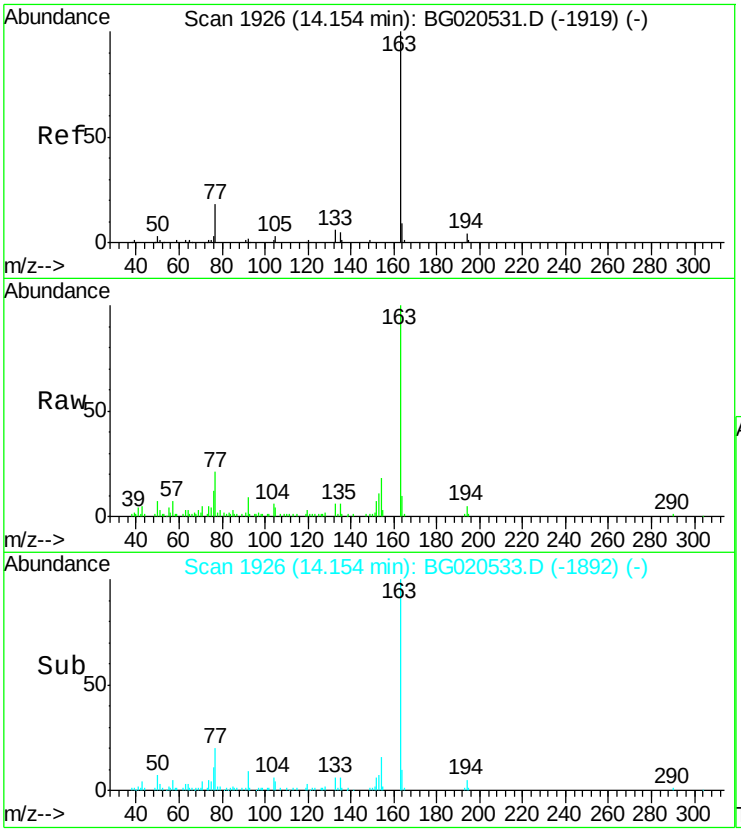




#41
1,1'-Biphenyl
Concen: 3.50 ng/ul
RT: 13.54 min Scan# 1822
Delta R.T. -0.00 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

Tgt Ion:154 Resp: 16645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 42.5 | 35.5 | 53.3 |
| 76 | 12.2 | 10.4 | 15.6 |



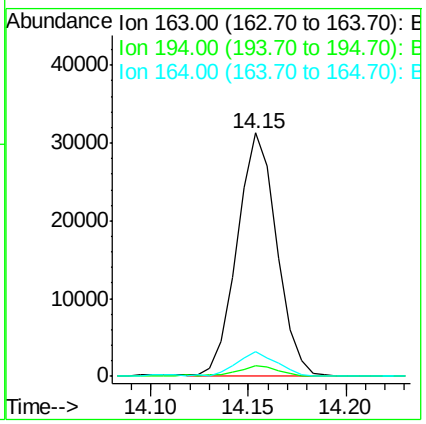


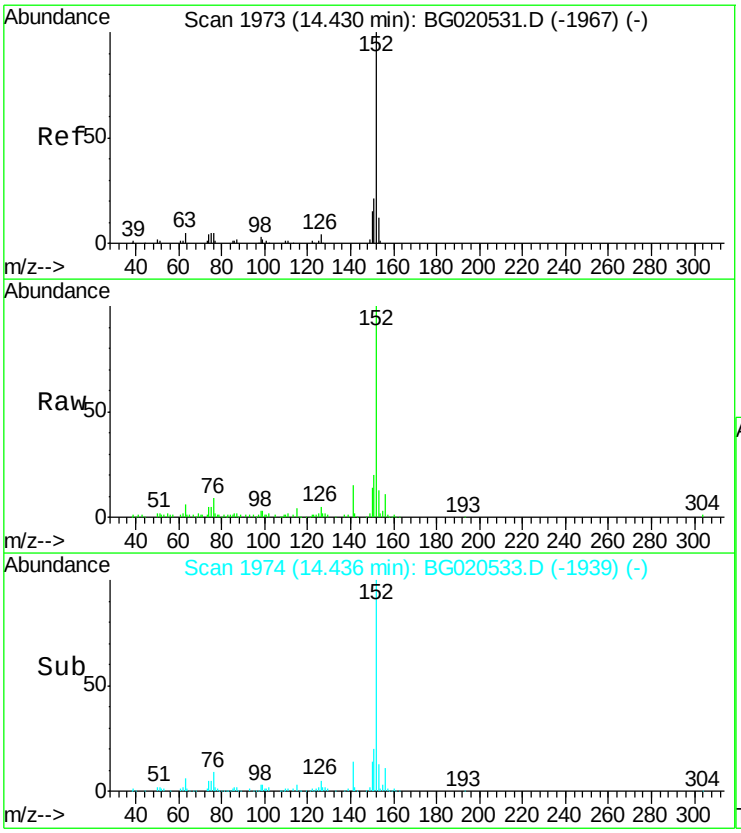

#45
Dimethylphthalate
Concen: 8.55 ng/ul
RT: 14.15 min Scan# 1926
Delta R.T. -0.00 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

**Instrument :**
BNA_G
**ClientSampleId :**
G9D87

Tgt Ion:163 Resp: 44101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 4.6 | 3.5 | 5.3 |
| 164 | 10.2 | 7.7 | 11.5 |

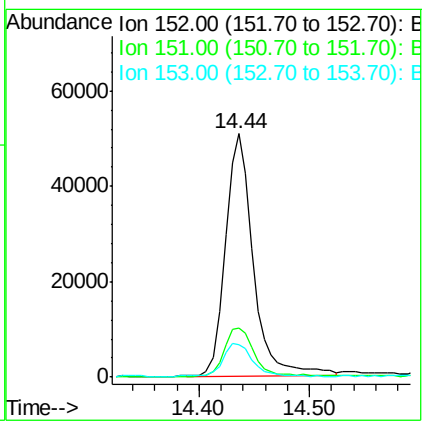


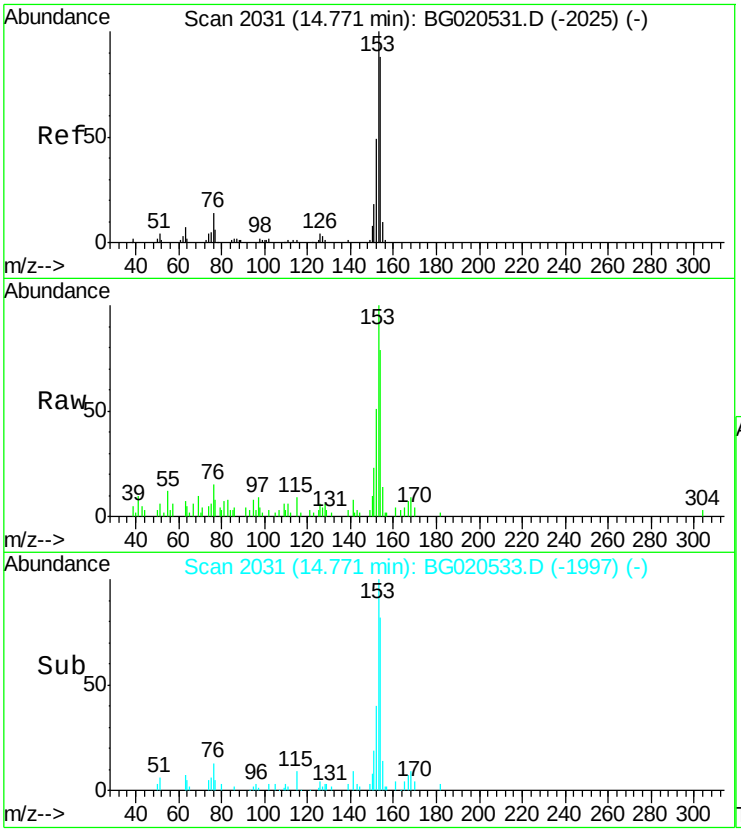




#48
Acenaphthylene
Concen: 14.68 ng/ul
RT: 14.44 min Scan# 1974
Delta R.T. 0.01 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

Tgt Ion:152 Resp: 90659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.4 | 24.6 |
| 153 | 13.3 | 10.4 | 15.6 |



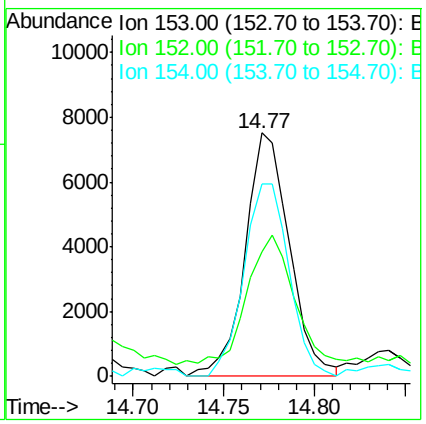


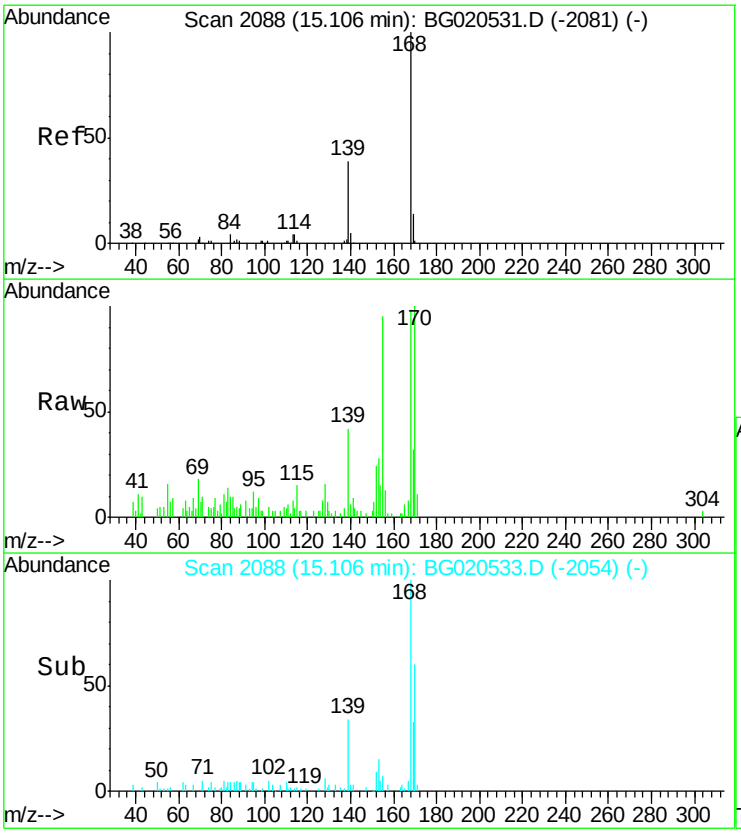

#50
Acenaphthene
Concen: 3.05 ng/ul
RT: 14.77 min Scan# 2031
Delta R.T. -0.00 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

**Instrument :**
BNA_G
**ClientSampleId :**
G9D87

Tgt Ion:153 Resp: 12737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 153 | 100 | | |
| 152 | 51.3 | 37.6 | 56.4 |
| 154 | 78.9 | 67.9 | 101.9 |

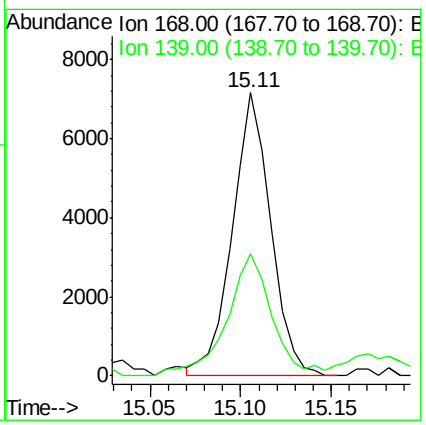


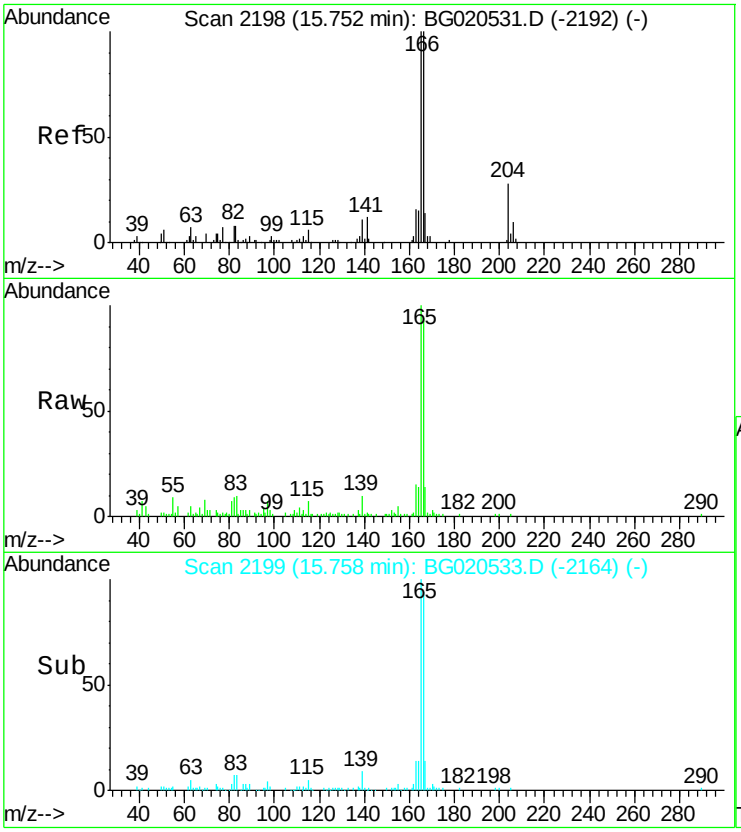




#54
Dibenzofuran
Concen: 1.69 ng/ul
RT: 15.11 min Scan# 2088
Delta R.T. -0.00 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

Tgt Ion:168 Resp: 10512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 43.3 | 30.5 | 45.7 |



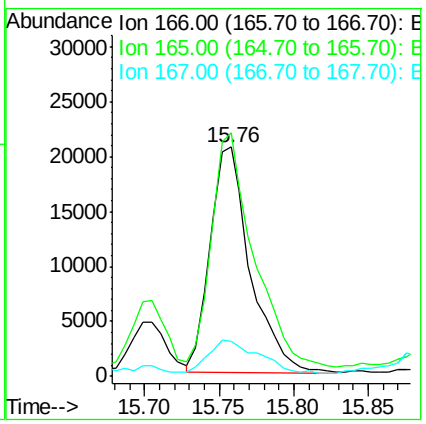


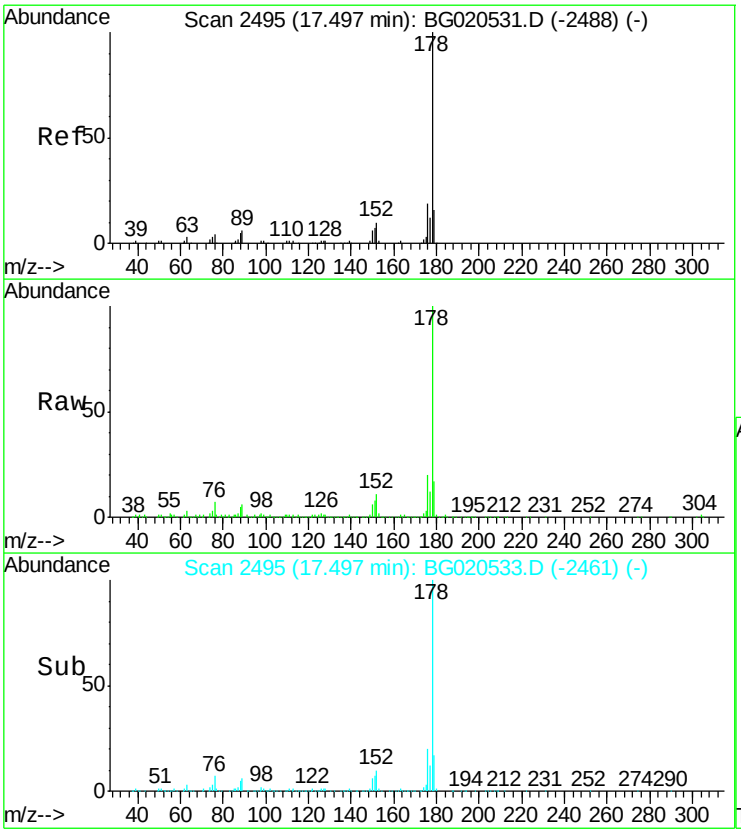

#59
Fluorene
Concen: 7.67 ng/ul
RT: 15.76 min Scan# 2199
Delta R.T. 0.01 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

**Instrument :**
BNA_G
**ClientSampleId :**
G9D87

Tgt Ion:166 Resp: 38627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 106.3 | 81.4 | 122.0 |
| 167 | 15.1 | 11.2 | 16.8 |

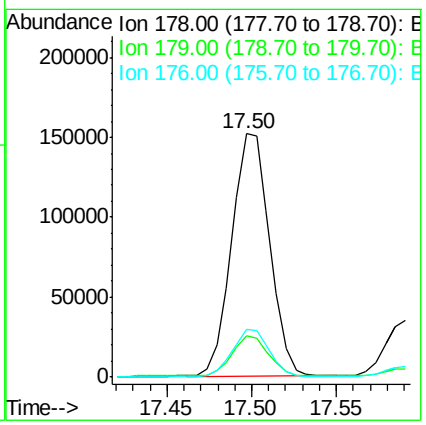


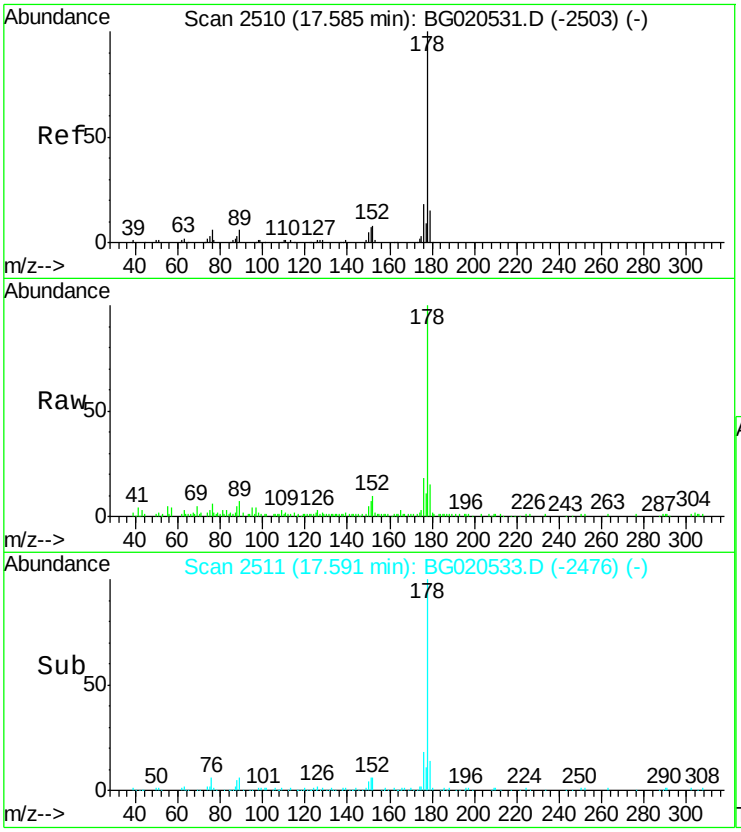




#70
Phenanthrene
Concen: 29.21 ng/ul
RT: 17.50 min Scan# 2495
Delta R.T. -0.00 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

Tgt Ion:178 Resp: 236159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 16.8 | 12.9 | 19.3 |
| 176 | 19.6 | 15.3 | 22.9 |



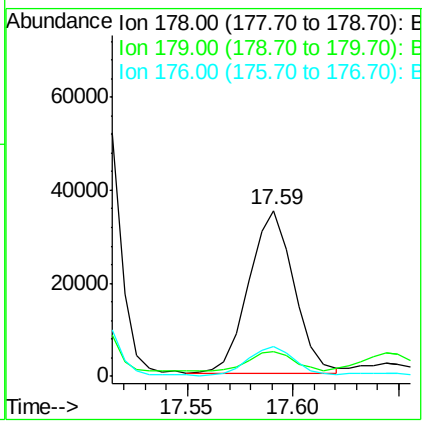


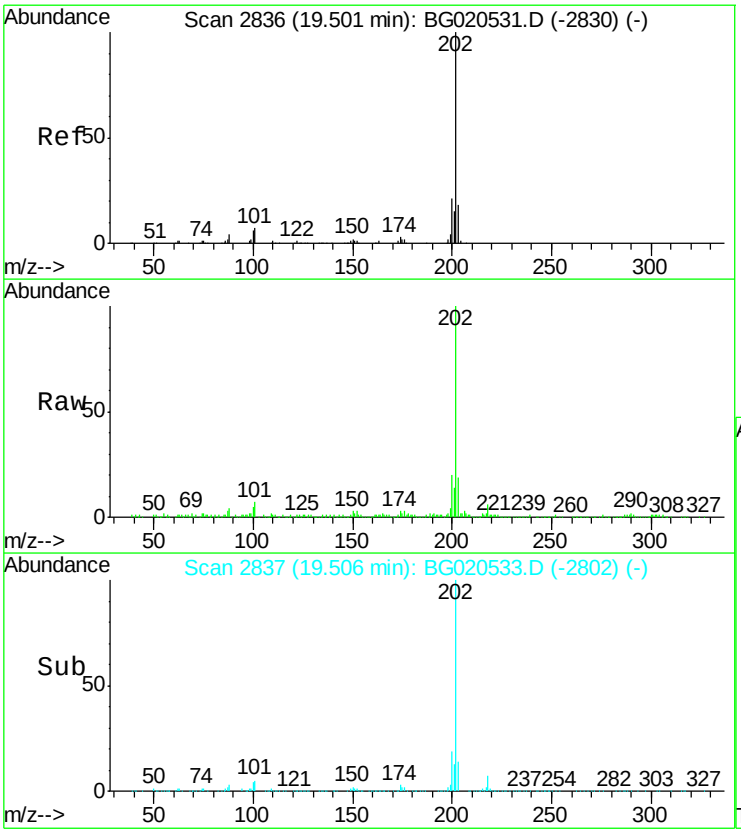

#72
Anthracene
Concen: 6.25 ng/ul
RT: 17.59 min Scan# 2511
Delta R.T. 0.01 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

**Instrument :**
BNA_G
**ClientSampleId :**
G9D87

Tgt Ion:178 Resp: 51660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.3 | 12.3 | 18.5 |
| 176 | 18.2 | 14.3 | 21.5 |

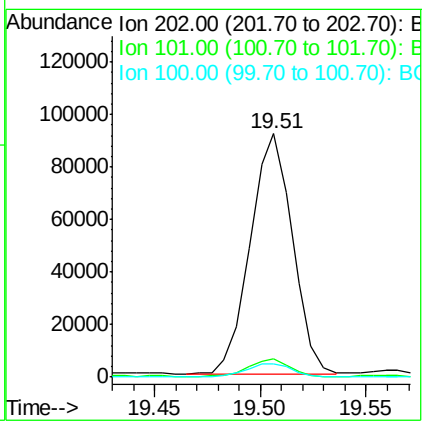


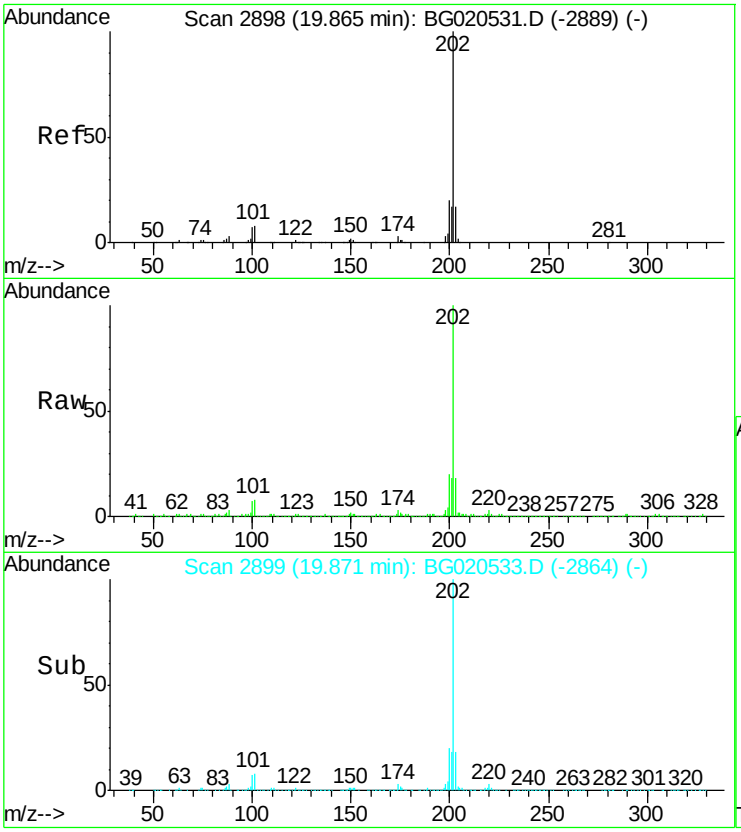




#77
Fluoranthene
Concen: 12.57 ng/ul
RT: 19.51 min Scan# 2837
Delta R.T. 0.01 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

Tgt Ion:202 Resp: 127853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 7.5 | 6.2 | 9.4 |
| 100 | 5.2 | 5.1 | 7.7 |



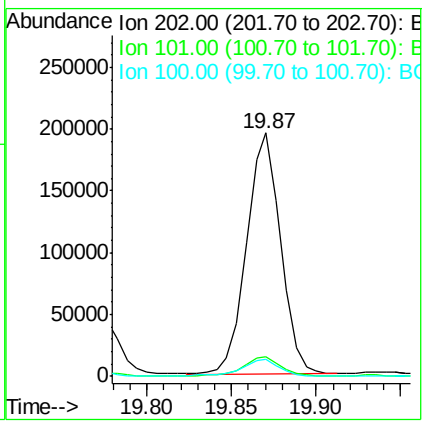


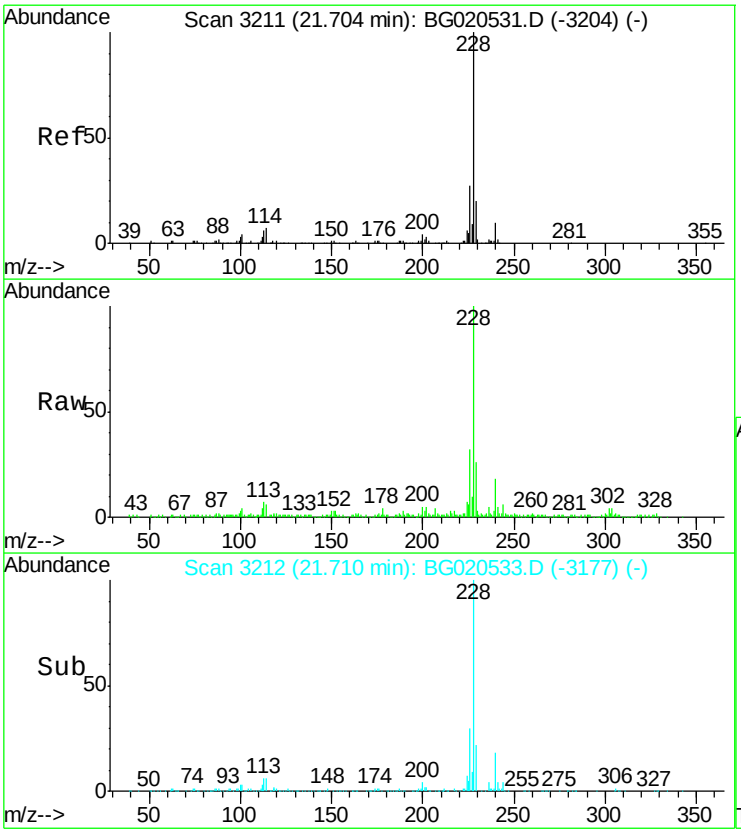

#80
Pyrene
Concen: 26.51 ng/ul
RT: 19.87 min Scan# 2899
Delta R.T. 0.01 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

**Instrument :**
BNA_G
**ClientSampleId :**
G9D87

Tgt Ion:202 Resp: 273072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 7.8 | 7.0 | 10.4 |
| 100 | 6.8 | 6.4 | 9.6 |

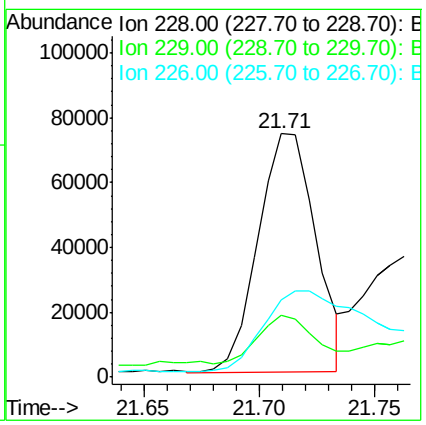


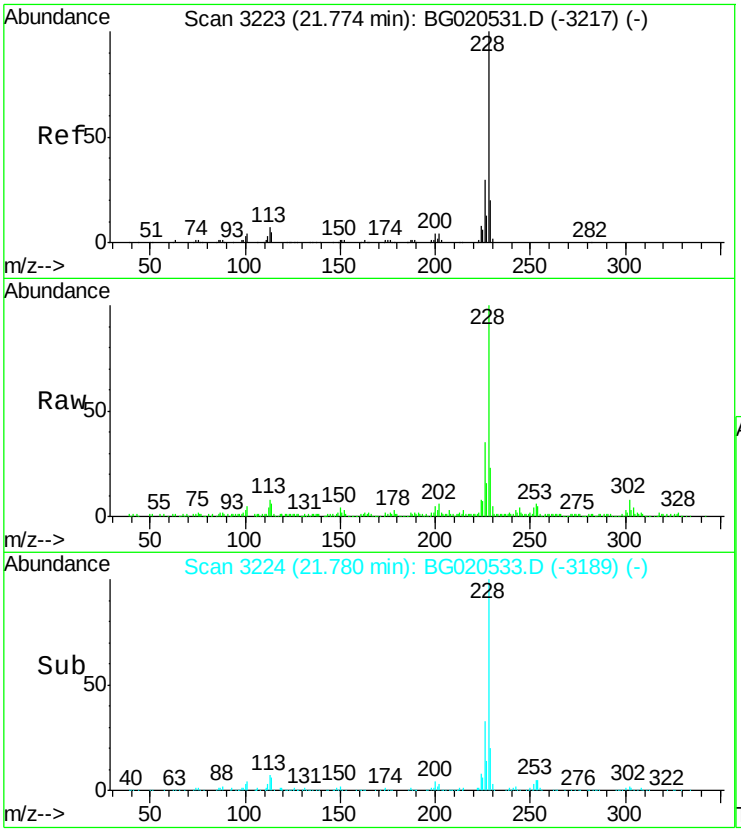




#83
Benzo(a)anthracene
Concen: 11.98 ng/ul
RT: 21.71 min Scan# 3212
Delta R.T. 0.01 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

Tgt Ion:228 Resp: 128200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 25.6 | 15.8 | 23.8# |
| 226 | 32.0 | 21.8 | 32.6 |



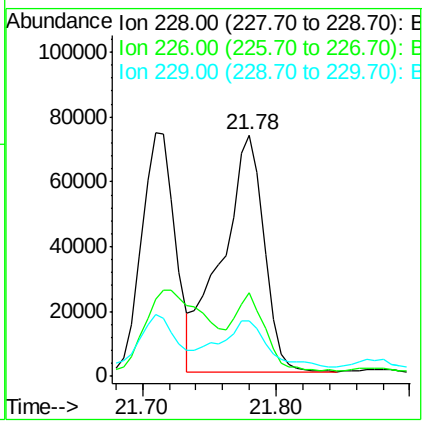


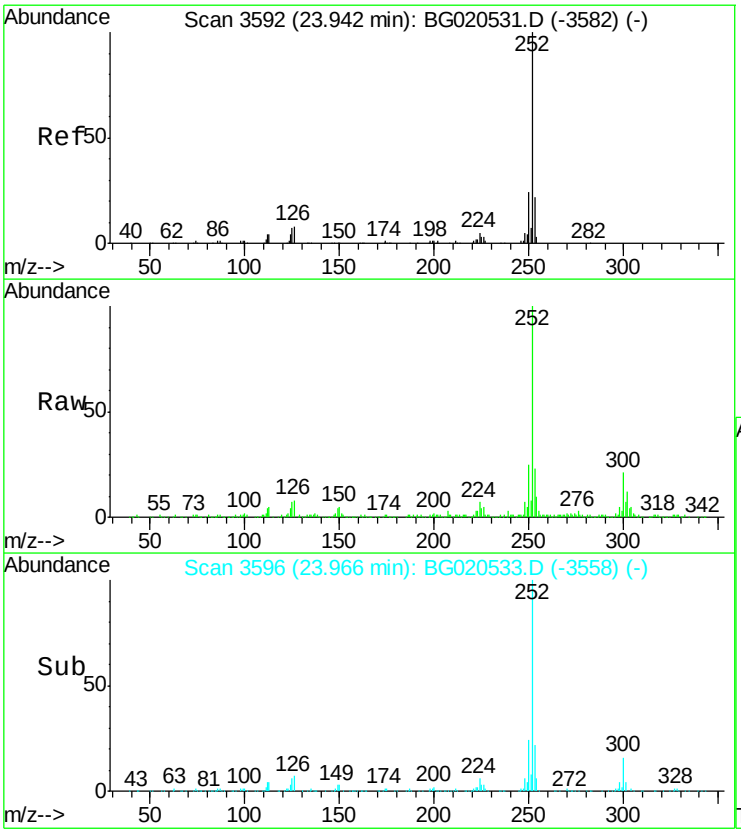

#85
Chrysene
Concen: 15.71 ng/ul
RT: 21.78 min Scan# 3224
Delta R.T. 0.01 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

**Instrument :**
BNA_G
**ClientSampleId :**
G9D87

Tgt Ion:228 Resp: 160150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 34.7 | 23.9 | 35.9 |
| 229 | 23.2 | 15.6 | 23.4 |




#88
Benzo(b)fluoranthene
Concen: 27.34 ng/ul
RT: 23.97 min Scan# 3596
Delta R.T. 0.02 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

Tgt Ion:252 Resp: 299827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.8 | 16.7 | 25.1 |
| 125 | 6.6 | 6.2 | 9.2 |