Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032117\
Data File : BG026357.D
Acq On : 21 Mar 2017 14:05
Operator : SJ/MA
Sample : I2296-05
Misc : LOD 2 PPB
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** LOD-WATER-05-QT2-2017

Quant Time: Mar 23 12:13:55 2017
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 20 17:43:27 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 8.04 | 152 | 120846 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 10.85 | 136 | 522754 | 20.00 | ng | | 0.00 |
| 38) Acenaphthene-d10 | 14.65 | 164 | 304431 | 20.00 | ng | | 0.00 |
| 63) Phenanthrene-d10 | 17.39 | 188 | 729445 | 20.00 | ng | | 0.00 |
| 75) Chrysene-d12 | 21.63 | 240 | 875895 | 20.00 | ng | | 0.00 |
| 86) Perylene-d12 | 24.81 | 264 | 845385 | 20.00 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.62 | 112 | 903425 | 132.69 | ng | | 0.00 |
| 7) Phenol-d6 | 7.20 | 99 | 1185131 | 129.65 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 9.20 | 82 | 713375 | 82.05 | ng | | 0.00 |
| 41) 2,4,6-Tribromophenol | 16.13 | 330 | 520123 | 149.19 | ng | | 0.00 |
| 44) 2-Fluorobiphenyl | 13.28 | 172 | 1965822 | 90.56 | ng | | 0.00 |
| 78) Terphenyl-d14 | 19.98 | 244 | 2725689 | 75.57 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 17) 2-Methylphenol | 8.48 | 107 | 12879 | 1.86 | ng | # | 77 |
| 19) n-Nitroso-di-n-propylamine | 8.84 | 70 | 10510 | 1.79 | ng | # | 72 |
| 20) 3+4-Methylphenols | 8.81 | 107 | 17468 | 1.83 | ng | | 86 |
| 22) Acetophenone | 8.87 | 105 | 23381 | 1.94 | ng | # | 75 |
| 25) Isophorone | 9.77 | 82 | 31020 | 1.89 | ng | # | 97 |
| 26) 2-Nitrophenol | 9.96 | 139 | 7948 | 1.78 | ng | # | 61 |
| 27) 2,4-Dimethylphenol | 10.01 | 122 | 14203 | 1.94 | ng | # | 77 |
| 28) bis(2-Chloroethoxy)methane | 10.25 | 93 | 19804 | 1.86 | ng | | 95 |
| 29) 2,4-Dichlorophenol | 10.51 | 162 | 13747 | 1.85 | ng | | 90 |
| 30) 1,2,4-Trichlorobenzene | 10.70 | 180 | 18286 | 2.20 | ng | # | 81 |
| 36) 4-Chloro-3-methylphenol | 12.12 | 107 | 13927 | 1.76 | ng | # | 72 |
| 42) 2,4,6-Trichlorophenol | 13.10 | 196 | 10919 | 1.82 | ng | | 91 |
| 43) 2,4,5-Trichlorophenol | 13.18 | 196 | 12927 | 1.95 | ng | # | 82 |
| 56) 2,4-Dinitrotoluene | 15.01 | 165 | 11733 | 1.56 | ng | # | 75 |
| 60) 4-Chlorophenyl-phenylether | 15.68 | 204 | 24820 | 2.11 | ng | | 94 |
| 61) 4-Nitroaniline | 15.70 | 138 | 9344 | 1.50 | ng | # | 42 |
| 76) Benzidine | 19.61 | 184 | 44634 | 1.48 | ng | | 95 |
| 81) 3,3'-Dichlorobenzidine | 21.52 | 252 | 37673 | 1.87 | ng | # | 94 |

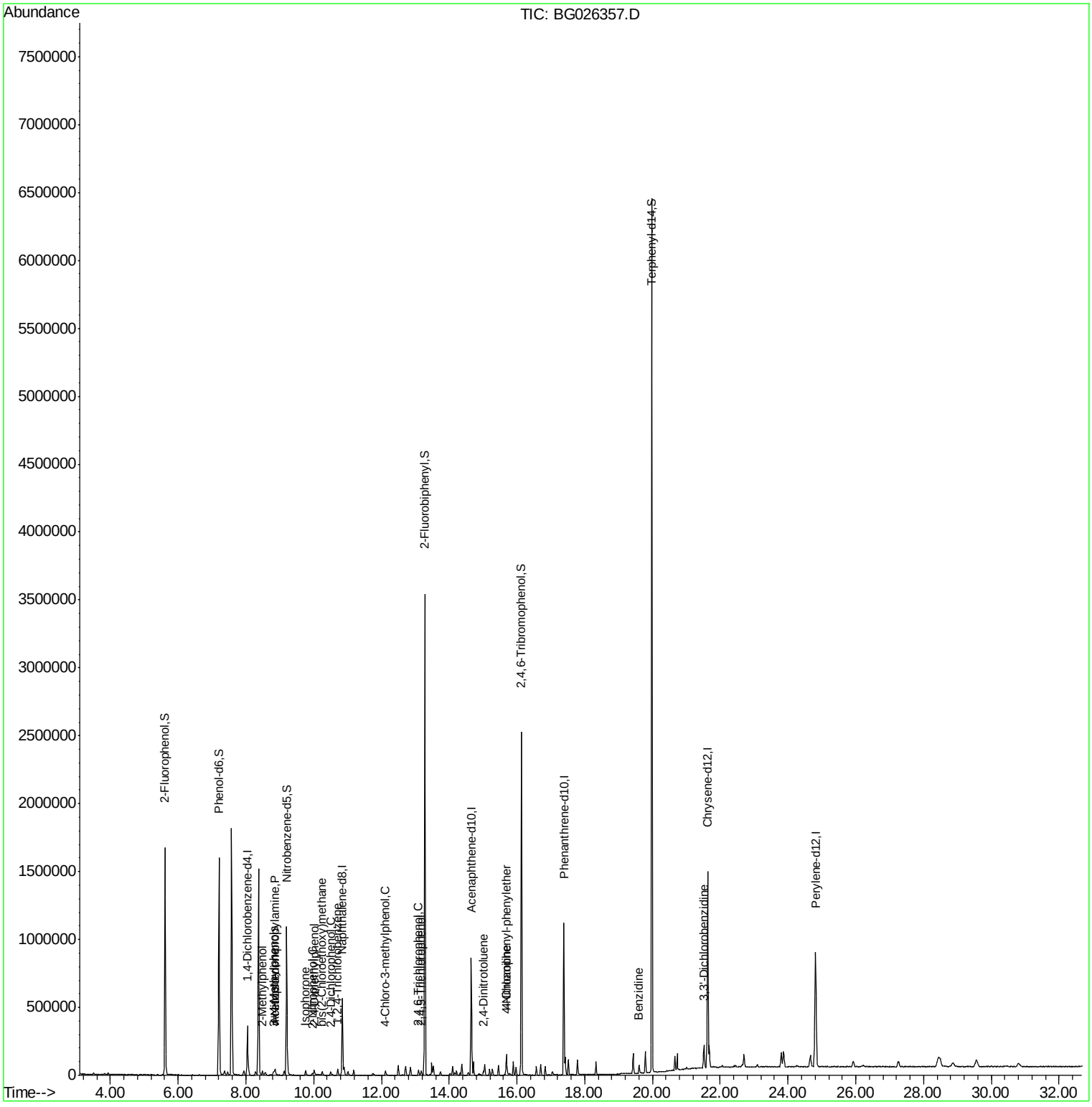
(#) = qualifier out of range (m) = manual integration (+) = signals summed

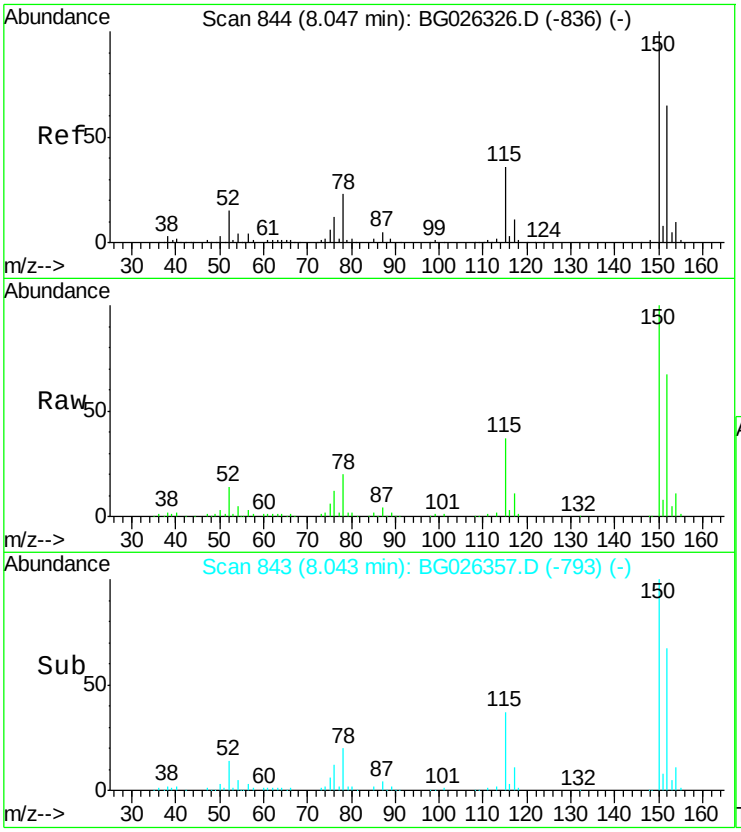
Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032117\
Data File : BG026357.D
Acq On : 21 Mar 2017 14:05
Operator : SJ/MA
Sample : I2296-05
Misc : LOD 2 PPB
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
LOD-WATER-05-QT2-2017

Quant Time: Mar 23 12:13:55 2017
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 20 17:43:27 2017
Response via : Initial Calibration



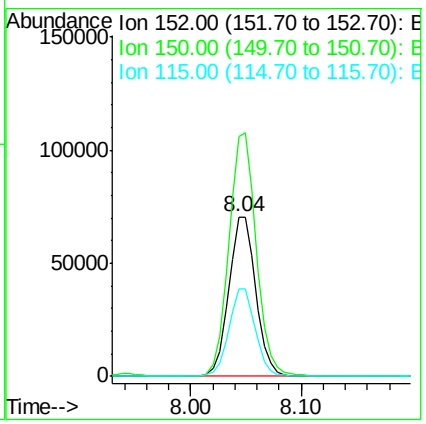


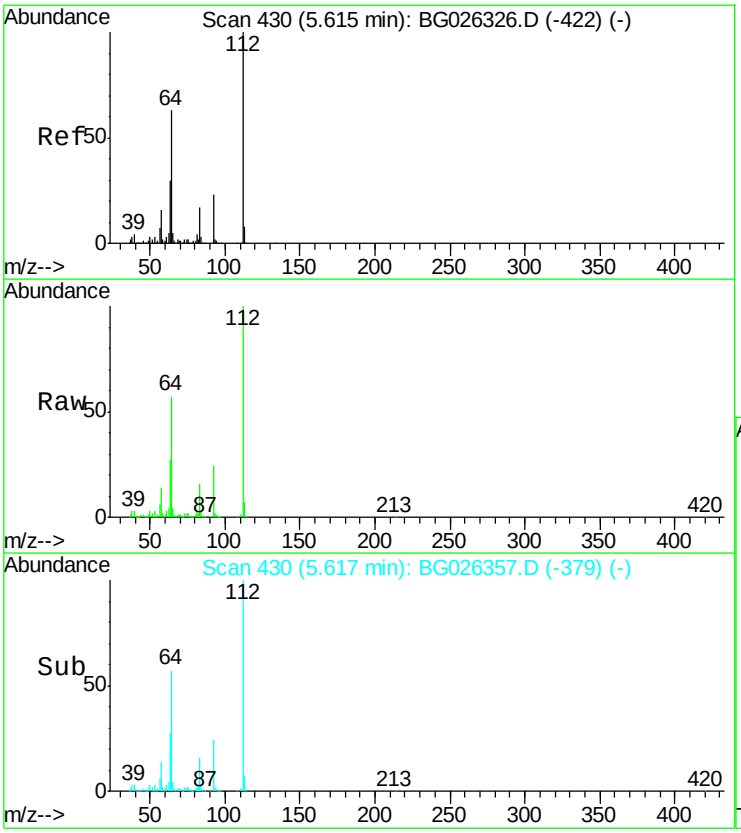

#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.04 min Scan# 843
Delta R.T. -0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

**Instrument :**
BNA_G
**ClientSampleId :**
LOD-WATER-05-QT2-2017

Tgt Ion:152 Resp: 120846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 150.1 | 114.0 | 171.0 |
| 115 | 55.1 | 48.1 | 72.1 |

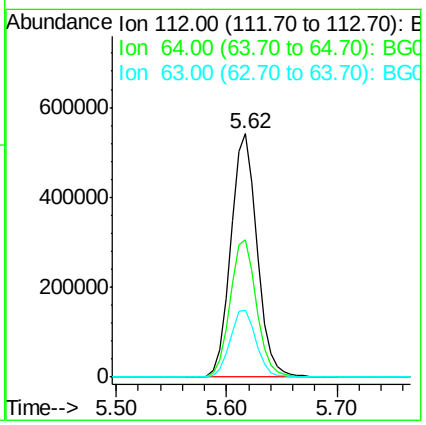


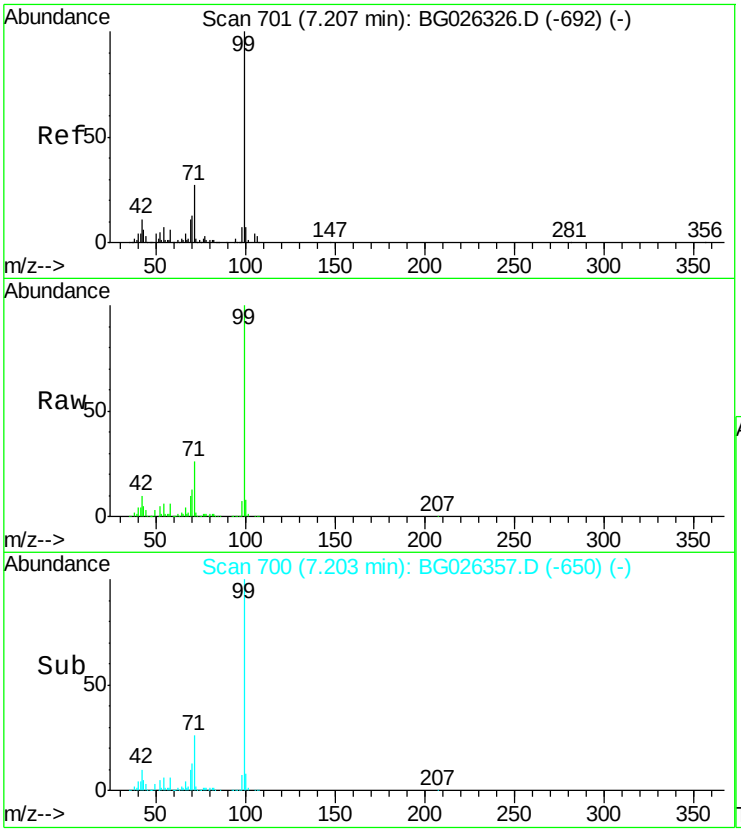




#5
2-Fluorophenol
Concen: 132.69 ng
RT: 5.62 min Scan# 430
Delta R.T. 0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

Tgt Ion:112 Resp: 903425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 56.6 | 61.8 | 92.6# |
| 63 | 27.3 | 37.2 | 55.8# |



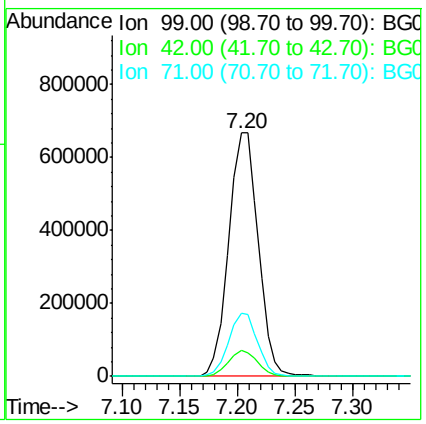


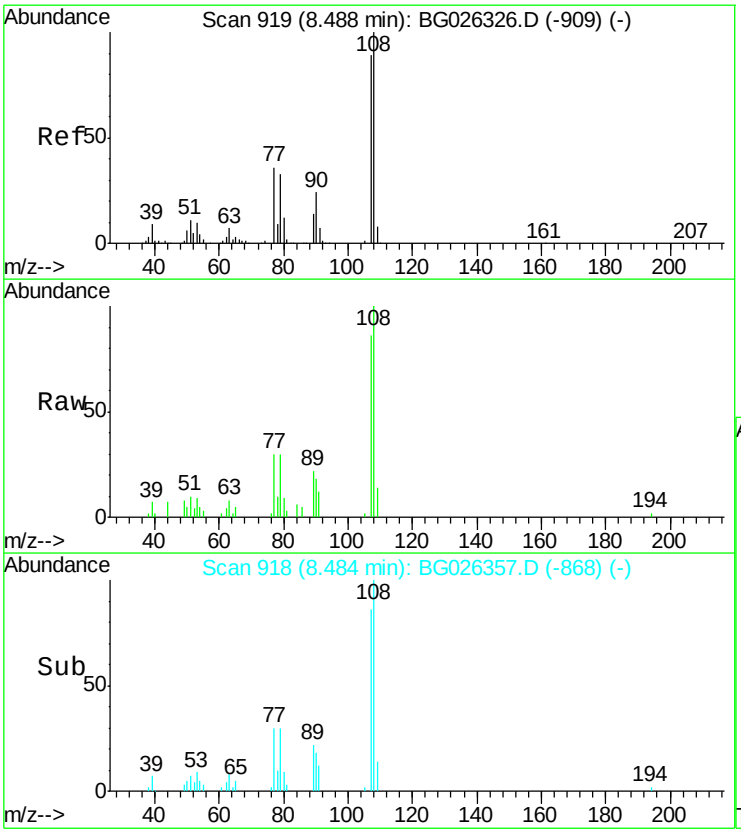

#7
Phenol-d6
Concen: 129.65 ng
RT: 7.20 min Scan# 700
Delta R.T. -0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

**Instrument :**
BNA_G
**ClientSampleId :**
LOD-WATER-05-QT2-2017

Tgt Ion: 99 Resp: 1185131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 10.4 | 20.5 | 30.7# |
| 71 | 26.2 | 37.6 | 56.4# |

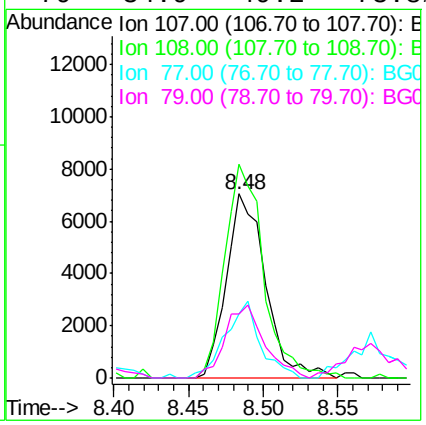


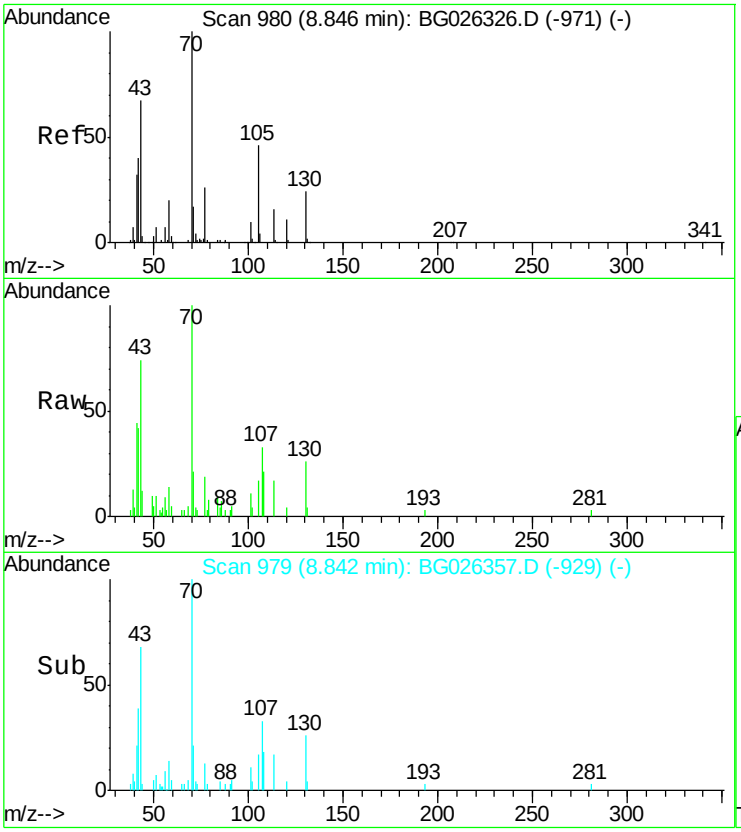




#17
2-Methylphenol
Concen: 1.86 ng
RT: 8.48 min Scan# 918
Delta R.T. -0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

Tgt Ion:107 Resp: 12879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 116.1 | 85.6 | 128.4 |
| 77 | 35.1 | 51.4 | 77.2# |
| 79 | 34.9 | 49.2 | 73.8# |



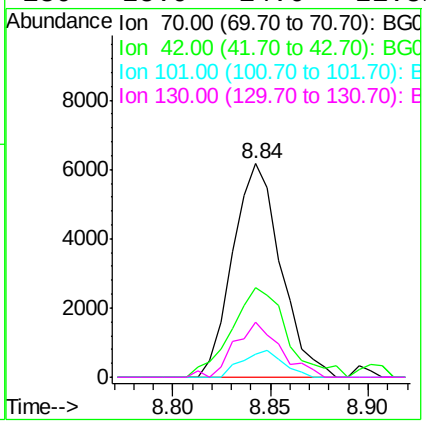


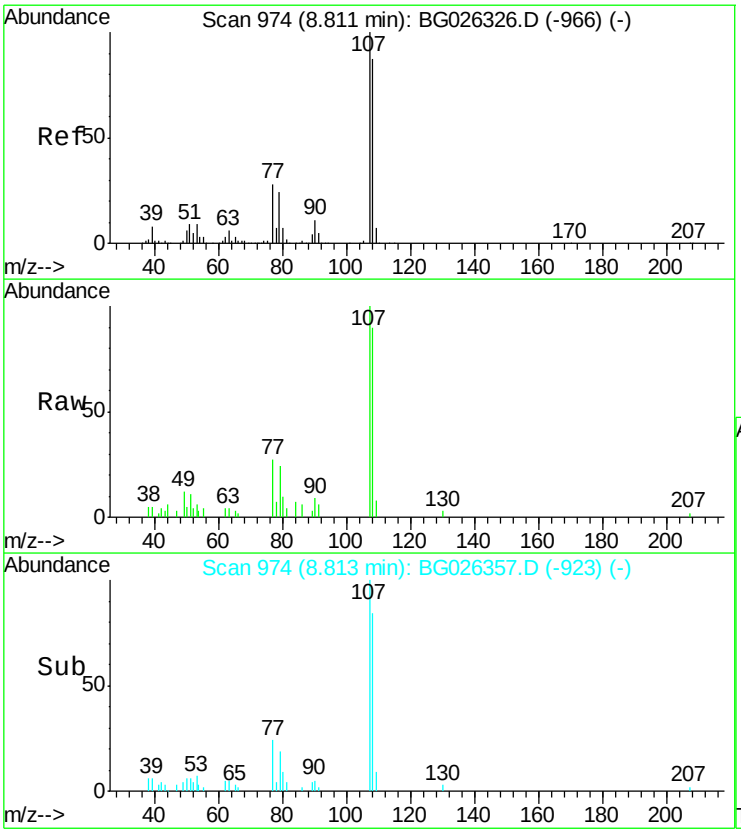

#19
n-Nitroso-di-n-propylamine
Concen: 1.79 ng
RT: 8.84 min Scan# 979
Delta R.T. -0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

**Instrument :**
BNA_G
**ClientSampleId :**
LOD-WATER-05-QT2-2017

Tgt Ion: 70 Resp: 10510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 41.8 | 56.1 | 84.1# |
| 101 | 11.1 | 7.5 | 11.3 |
| 130 | 25.9 | 14.6 | 21.8# |

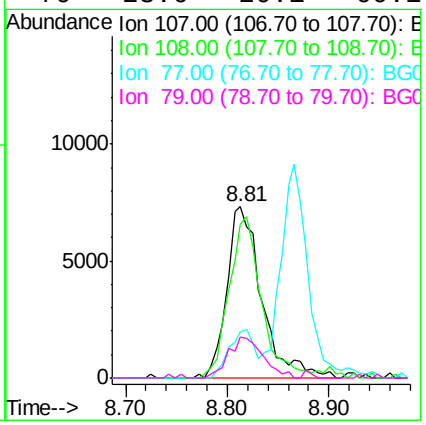


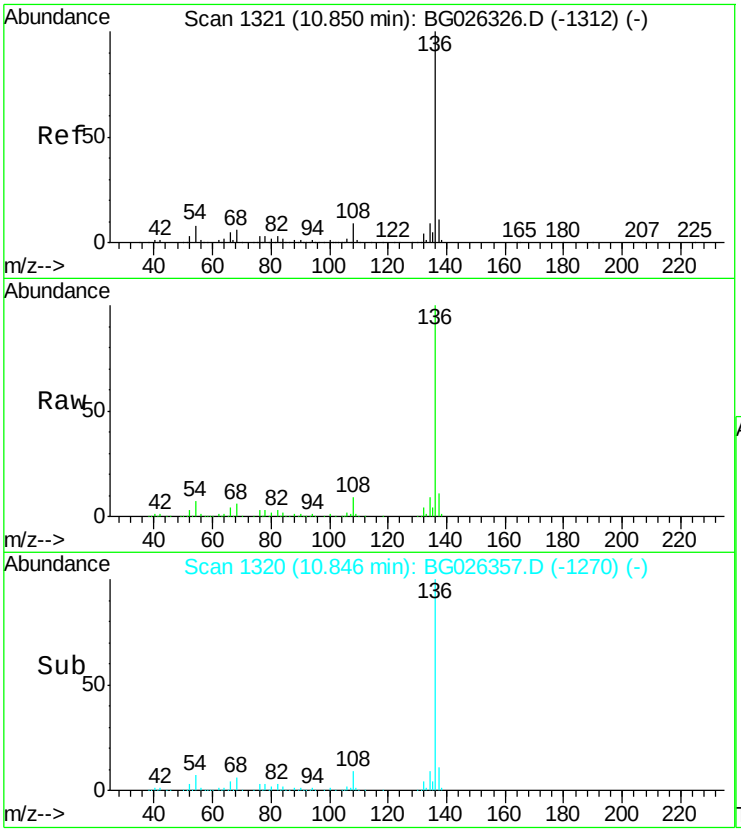




#20
3+4-Methylphenols
Concen: 1.83 ng
RT: 8.81 min Scan# 974
Delta R.T. 0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

Tgt Ion:107 Resp: 17468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 89.8 | 70.8 | 110.8 |
| 77 | 26.9 | 25.8 | 65.8 |
| 79 | 23.6 | 20.1 | 60.1 |



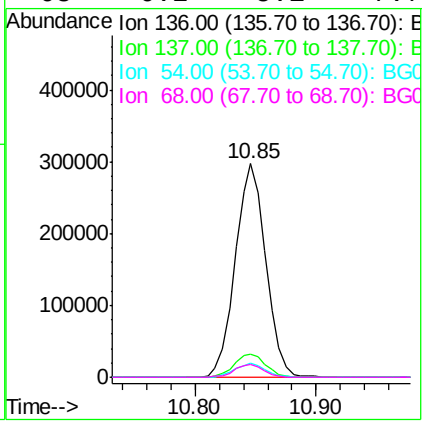


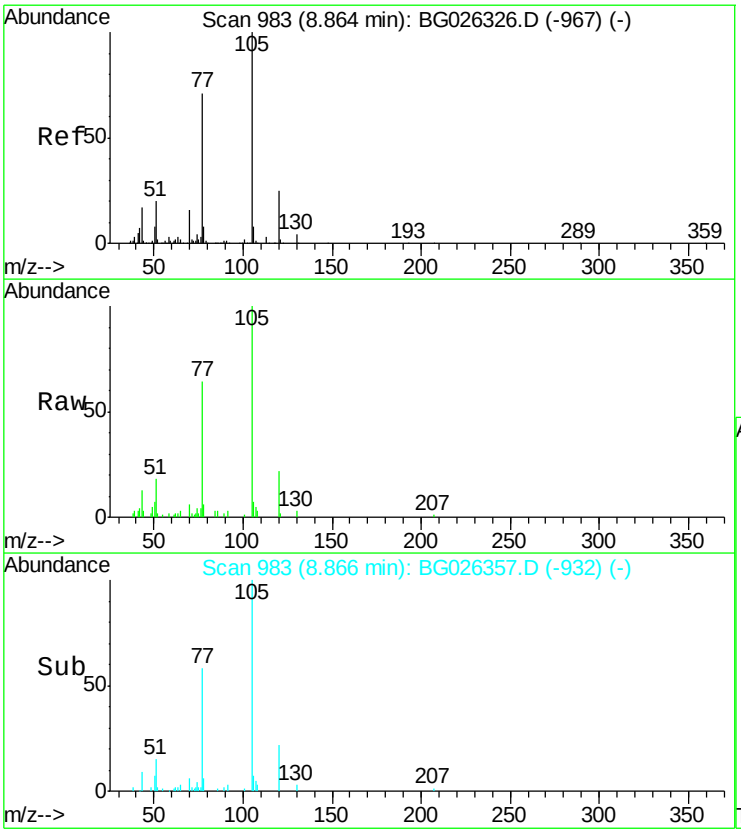

#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.85 min Scan# 1320
Delta R.T. -0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

**Instrument :**
BNA_G
**ClientSampleId :**
LOD-WATER-05-QT2-2017

Tgt Ion:136 Resp: 522754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 8.9 | 13.3 |
| 54 | 6.6 | 9.3 | 13.9# |
| 68 | 6.2 | 5.1 | 7.7 |

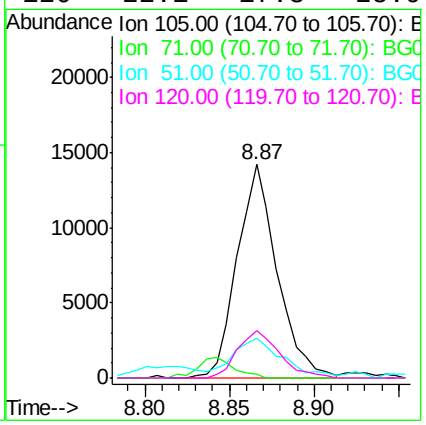


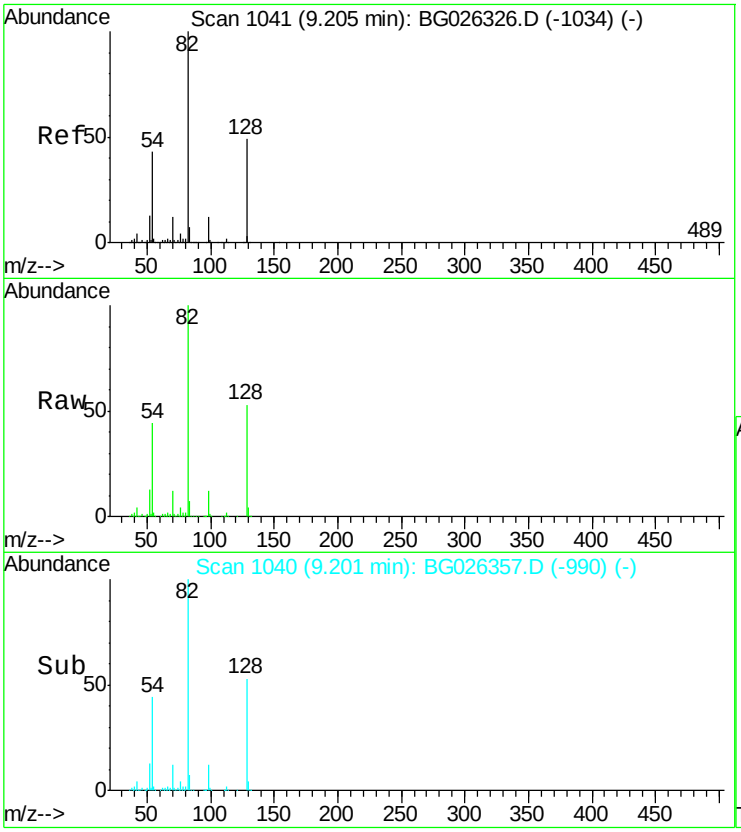




#22
Acetophenone
Concen: 1.94 ng
RT: 8.87 min Scan# 983
Delta R.T. 0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

Tgt Ion:105 Resp: 23381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 1.9 | 0.9 | 1.3# |
| 51 | 18.4 | 34.0 | 51.0# |
| 120 | 22.1 | 17.3 | 25.9 |



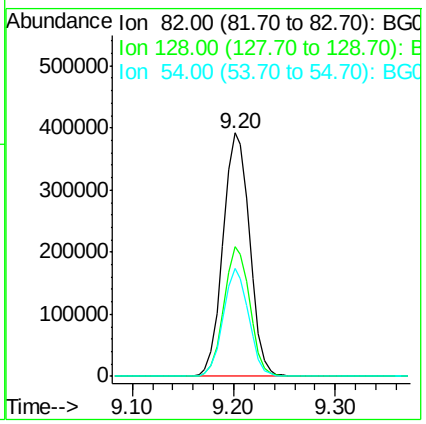


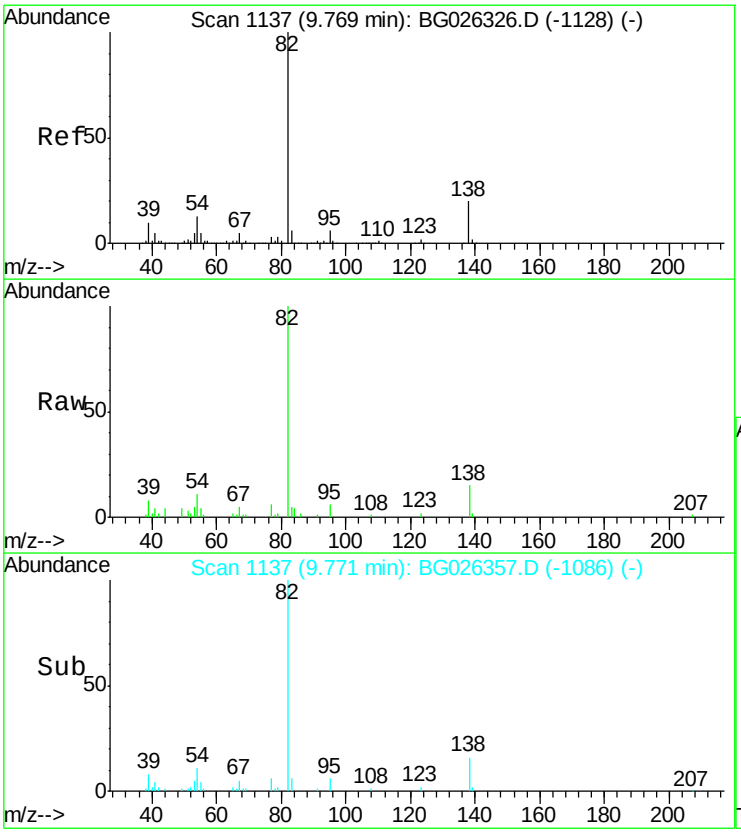

#23
Nitrobenzene-d5
Concen: 82.05 ng
RT: 9.20 min Scan# 1040
Delta R.T. -0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

**Instrument :**
BNA_G
**ClientSampleId :**
LOD-WATER-05-QT2-2017

Tgt Ion: 82 Resp: 713375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 53.1 | 26.4 | 39.6# |
| 54 | 44.5 | 49.4 | 74.2# |

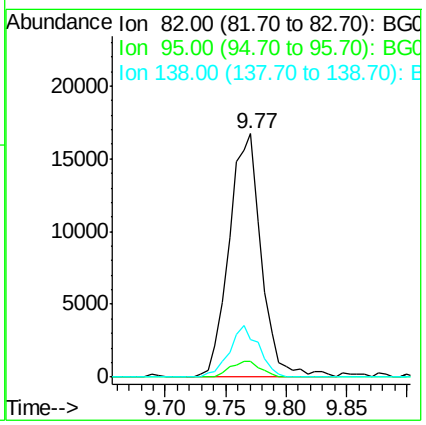


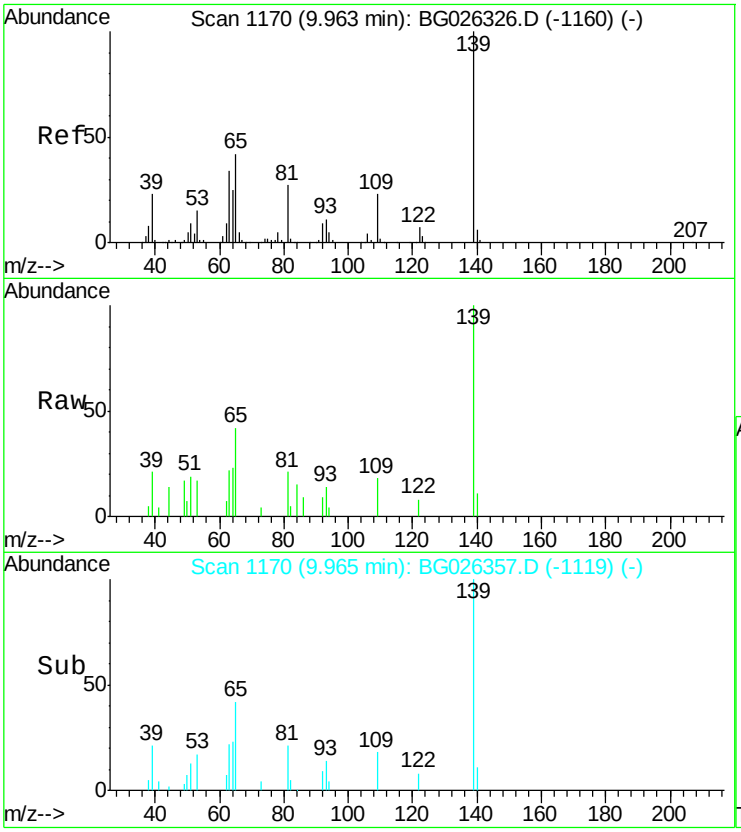




#25
Isophorone
Concen: 1.89 ng
RT: 9.77 min Scan# 1137
Delta R.T. 0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

Tgt Ion: 82 Resp: 31020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 6.3 | 7.5 | 11.3# |
| 138 | 15.5 | 12.3 | 18.5 |



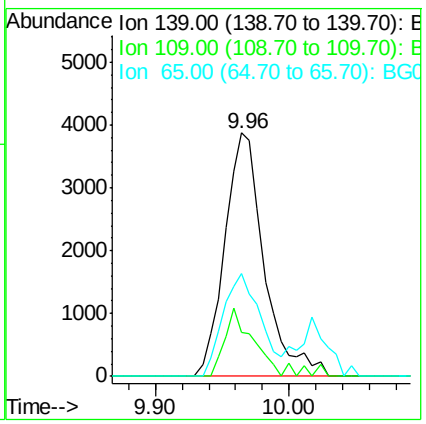


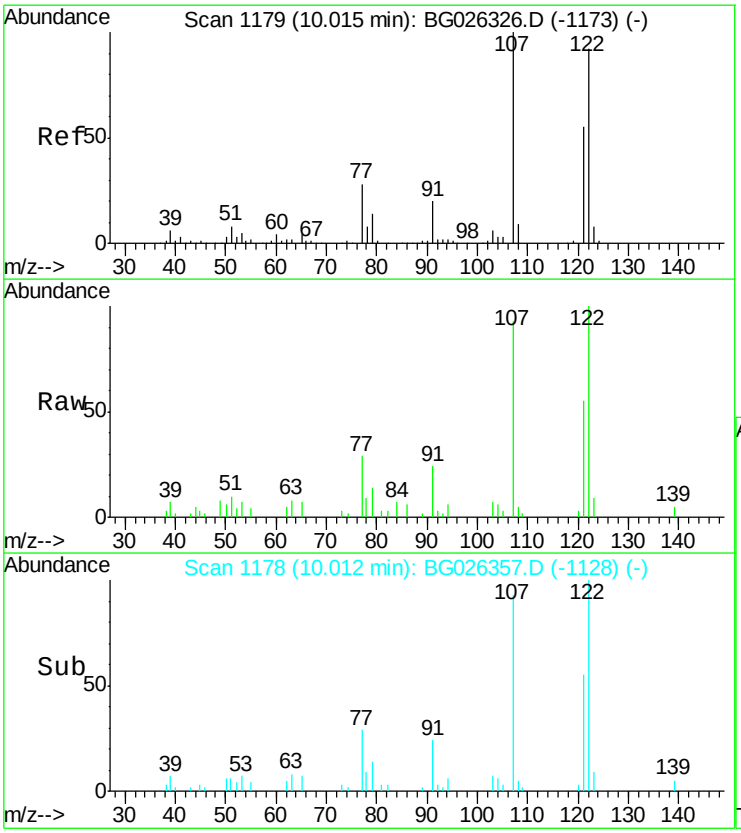

#26
2-Nitrophenol
Concen: 1.78 ng
RT: 9.96 min Scan# 1170
Delta R.T. 0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

**Instrument :**
BNA_G
**ClientSampleId :**
LOD-WATER-05-QT2-2017

Tgt Ion:139 Resp: 7948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 17.9 | 38.6 | 58.0# |
| 65 | 42.4 | 57.1 | 85.7# |

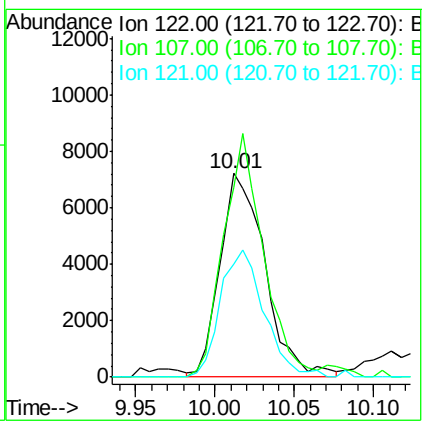


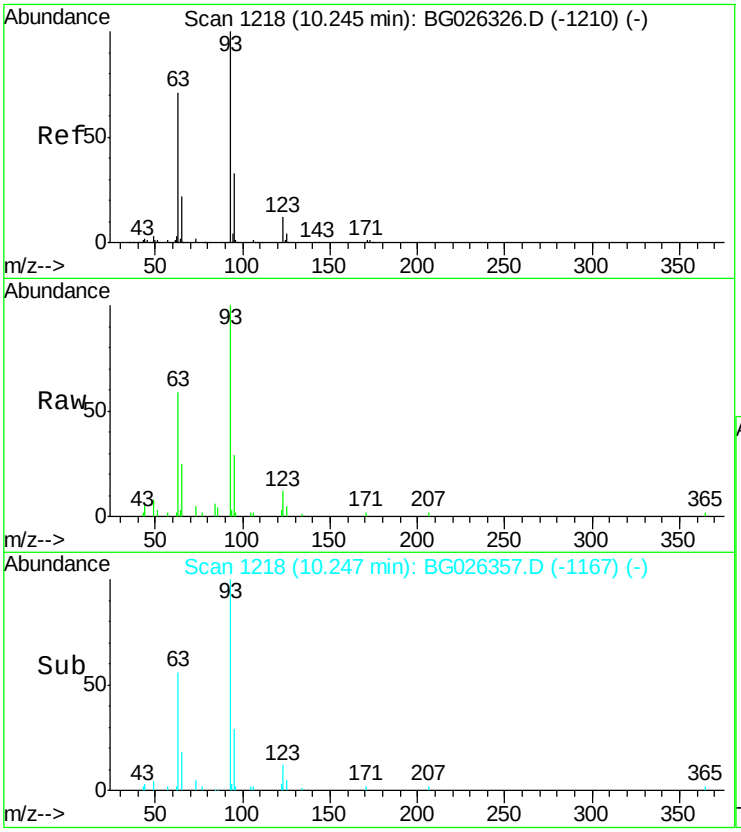




#27
2,4-Dimethylphenol
Concen: 1.94 ng
RT: 10.01 min Scan# 1178
Delta R.T. -0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

Tgt Ion:122 Resp: 14203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 93.4 | 104.2 | 156.4# |
| 121 | 55.4 | 46.0 | 69.0 |



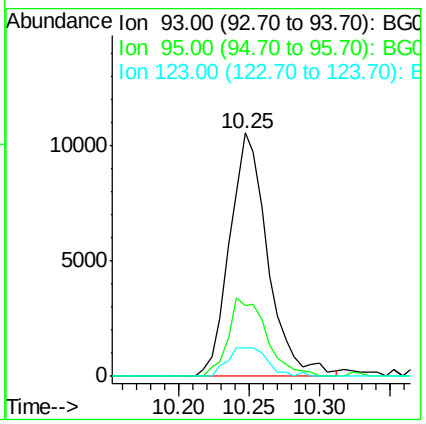


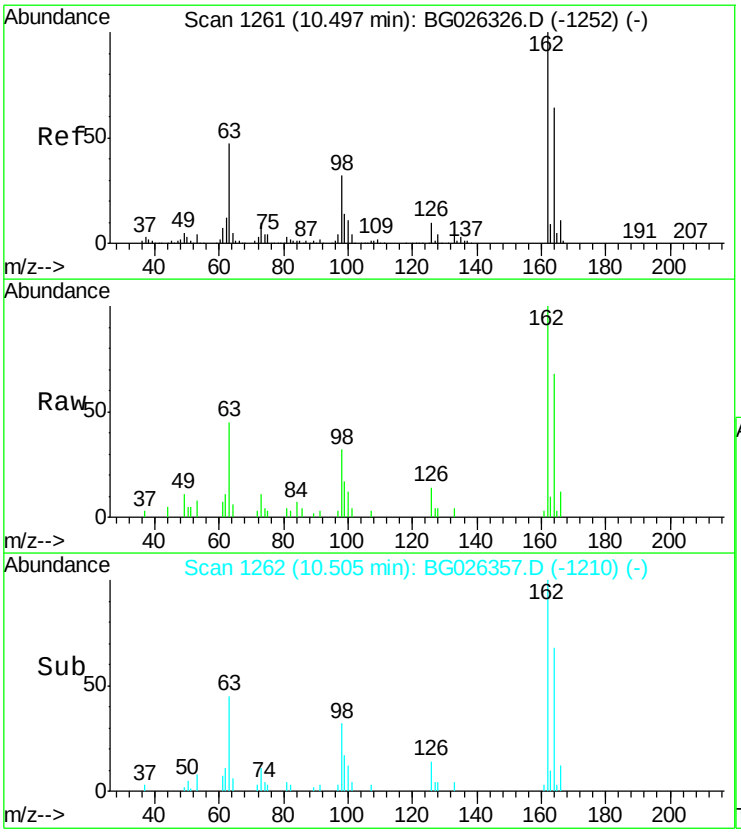

#28
bis(2-Chloroethoxy)methane
Concen: 1.86 ng
RT: 10.25 min Scan# 1218
Delta R.T. 0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

**Instrument :**
BNA_G
**ClientSampleId :**
LOD-WATER-05-QT2-2017

Tgt Ion: 93 Resp: 19804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 29.3 | 25.7 | 38.5 |
| 123 | 11.9 | 8.3 | 12.5 |

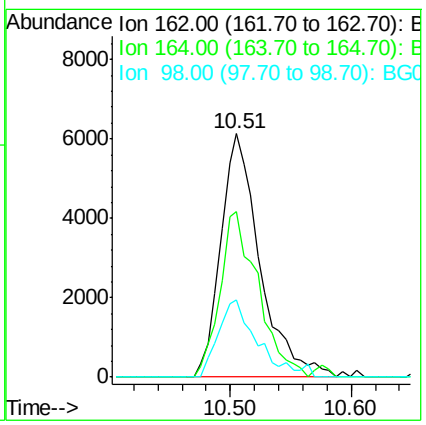


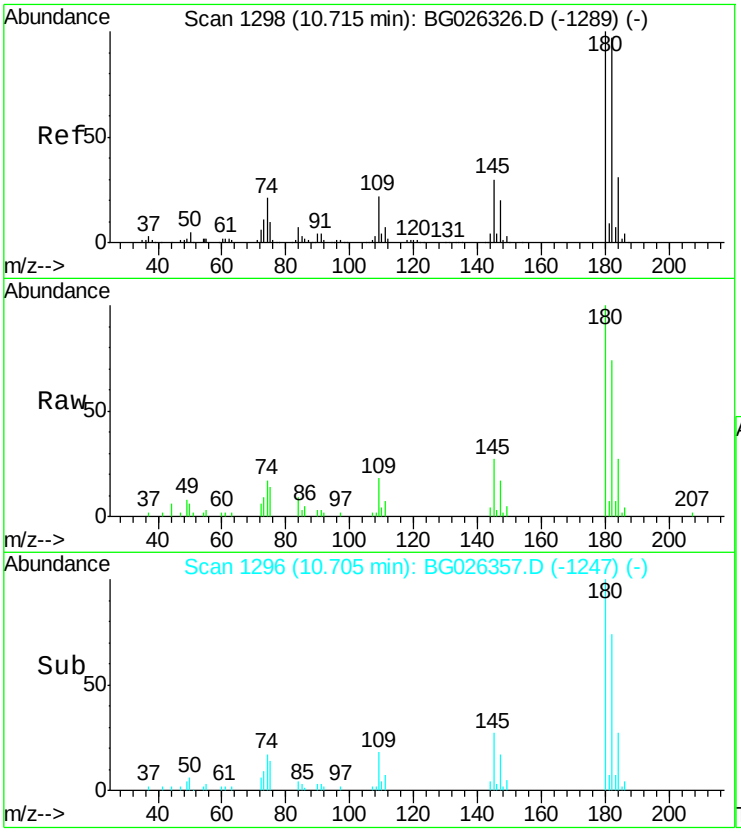




#29
2,4-Dichlorophenol
Concen: 1.85 ng
RT: 10.51 min Scan# 1262
Delta R.T. 0.01 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

Tgt Ion:162 Resp: 13747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 68.2 | 42.4 | 82.4 |
| 98 | 31.6 | 20.3 | 60.3 |



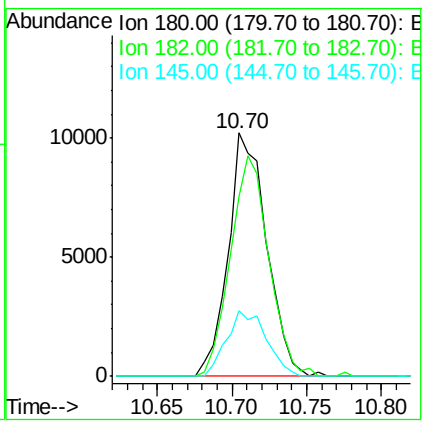


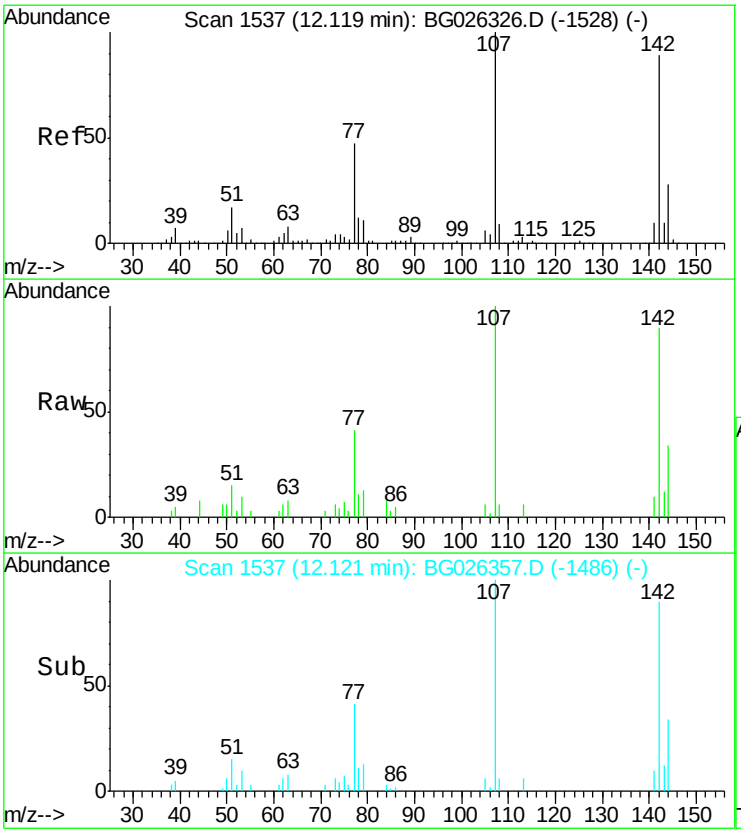

#30
1,2,4-Trichlorobenzene
Concen: 2.20 ng
RT: 10.70 min Scan# 1296
Delta R.T. -0.01 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

**Instrument :**
BNA_G
**ClientSampleId :**
LOD-WATER-05-QT2-2017

Tgt Ion:180 Resp: 18286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 73.6 | 77.0 | 115.4# |
| 145 | 26.9 | 23.4 | 35.0 |

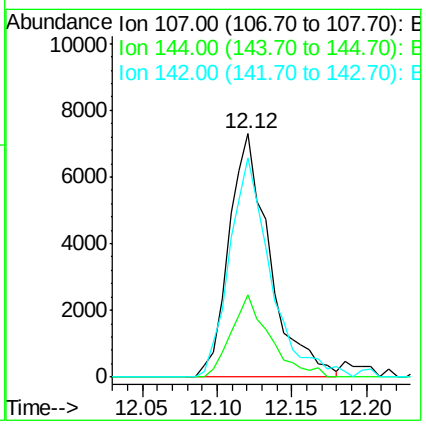


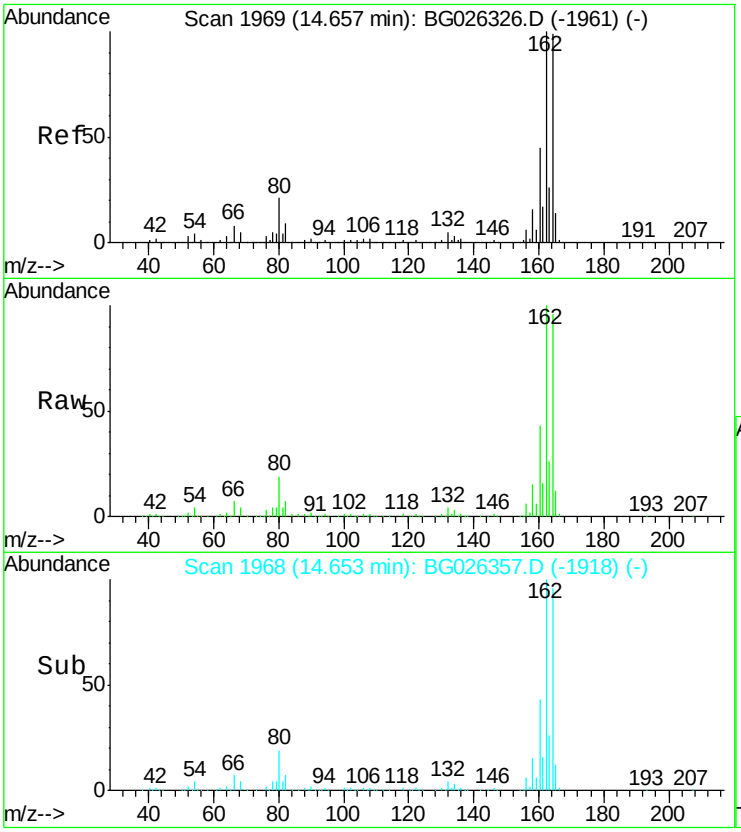




#36
4-Chloro-3-methylphenol
Concen: 1.76 ng
RT: 12.12 min Scan# 1537
Delta R.T. 0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

Tgt Ion:107 Resp: 13927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 34.1 | 17.4 | 26.0# |
| 142 | 90.2 | 54.1 | 81.1# |



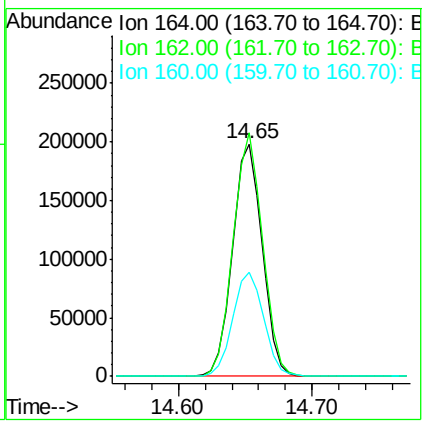


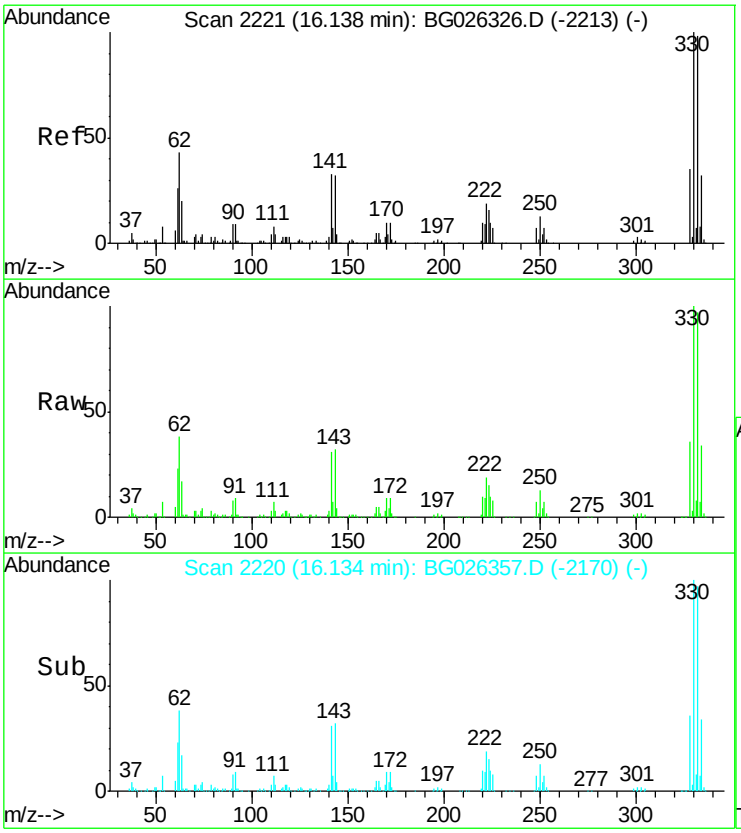

#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.65 min Scan# 1968
Delta R.T. -0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

**Instrument :**
BNA_G
**ClientSampleId :**
LOD-WATER-05-QT2-2017

Tgt Ion:164 Resp: 304431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.7 | 85.1 | 127.7 |
| 160 | 45.0 | 34.7 | 52.1 |

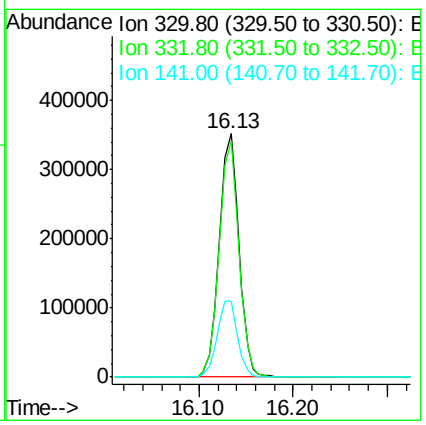


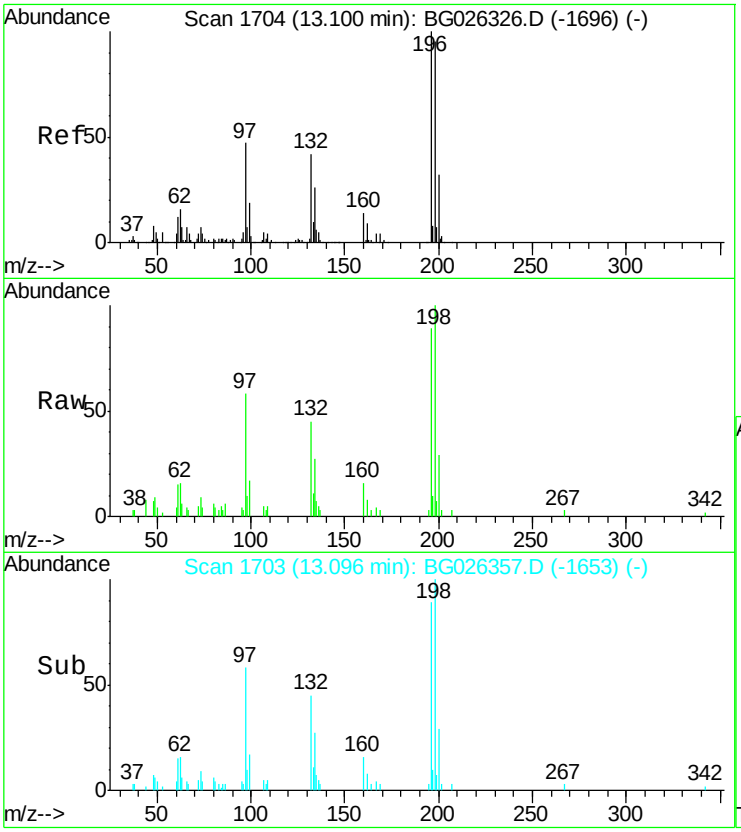




#41
2,4,6-Tribromophenol
Concen: 149.19 ng
RT: 16.13 min Scan# 2220
Delta R.T. -0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

Tgt Ion:330 Resp: 520123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.2 | 77.3 | 115.9 |
| 141 | 32.3 | 32.1 | 48.1 |



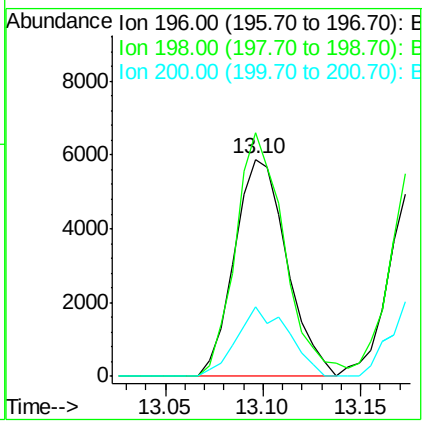


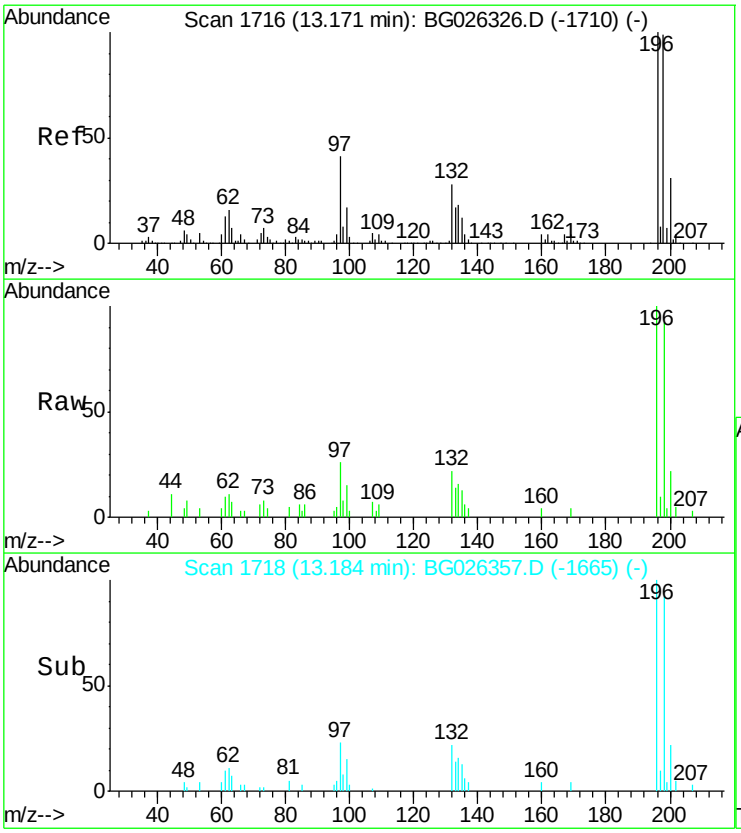

#42
2,4,6-Trichlorophenol
Concen: 1.82 ng
RT: 13.10 min Scan# 1703
Delta R.T. -0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

**Instrument :**
BNA_G
**ClientSampleId :**
LOD-WATER-05-QT2-2017

Tgt Ion:196 Resp: 10919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 112.3 | 81.4 | 122.2 |
| 200 | 32.1 | 27.0 | 40.6 |

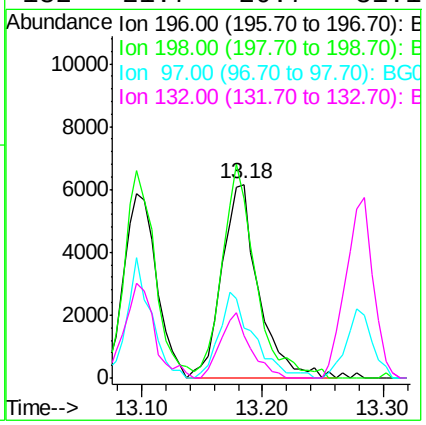


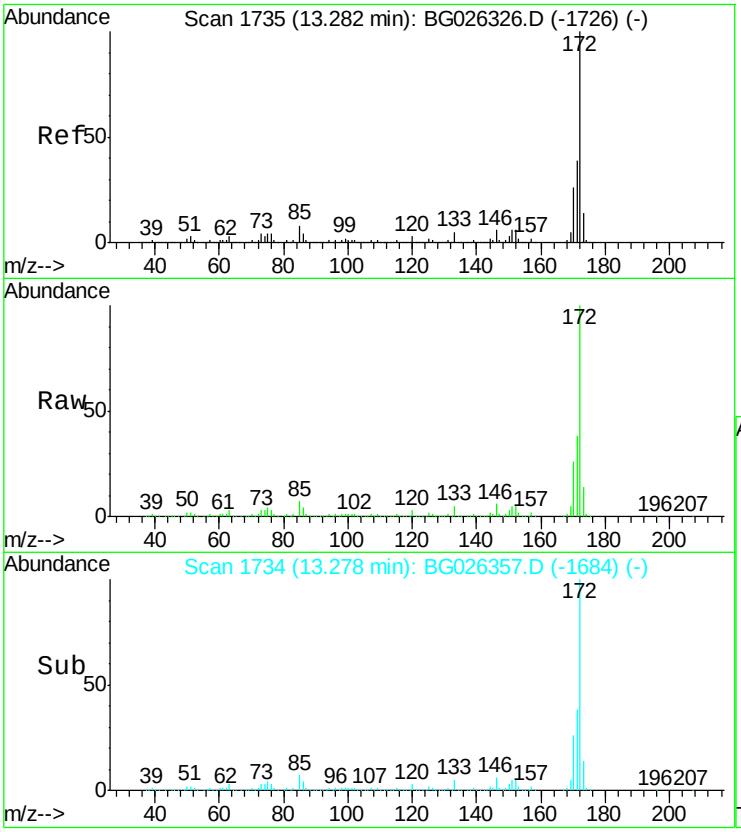




#43
2,4,5-Trichlorophenol
Concen: 1.95 ng
RT: 13.18 min Scan# 1718
Delta R.T. 0.01 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

Tgt Ion:196 Resp: 12927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 92.4 | 79.9 | 119.9 |
| 97 | 25.6 | 45.4 | 68.0# |
| 132 | 21.7 | 20.7 | 31.1 |



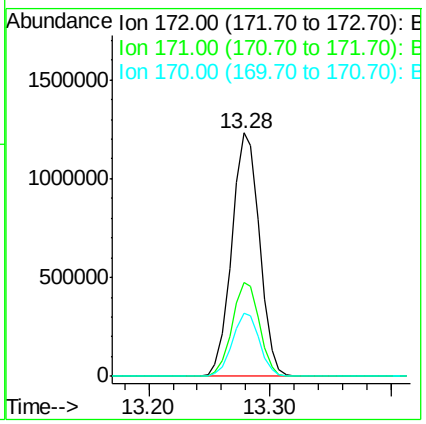


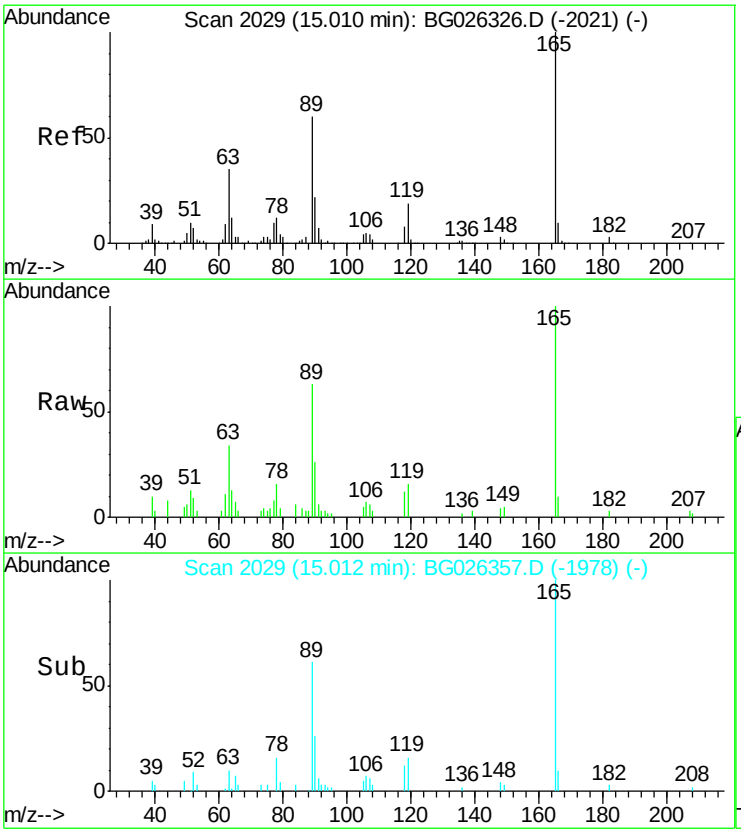

#44
2-Fluorobiphenyl
Concen: 90.56 ng
RT: 13.28 min Scan# 1734
Delta R.T. -0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

**Instrument :**
BNA_G
**ClientSampleId :**
LOD-WATER-05-QT2-2017

Tgt Ion:172 Resp: 1965822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 38.5 | 32.2 | 48.2 |
| 170 | 25.7 | 21.8 | 32.6 |

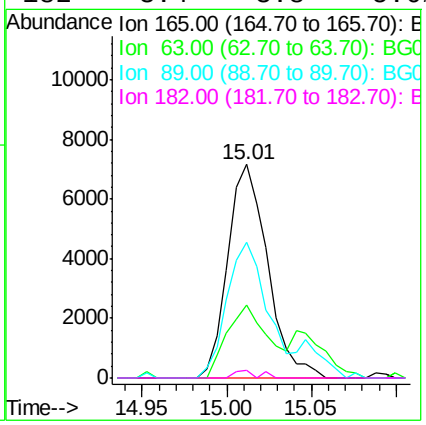


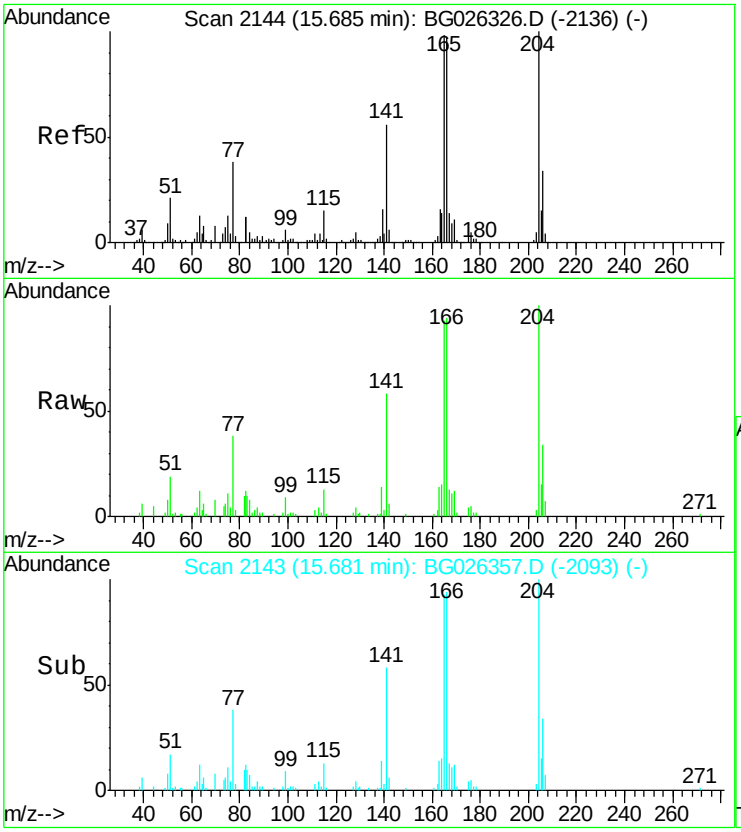




#56
2,4-Dinitrotoluene
Concen: 1.56 ng
RT: 15.01 min Scan# 2029
Delta R.T. 0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

Tgt Ion:165 Resp: 11733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 33.9 | 44.0 | 66.0# |
| 89 | 63.4 | 67.3 | 100.9# |
| 182 | 3.4 | 3.8 | 5.6# |



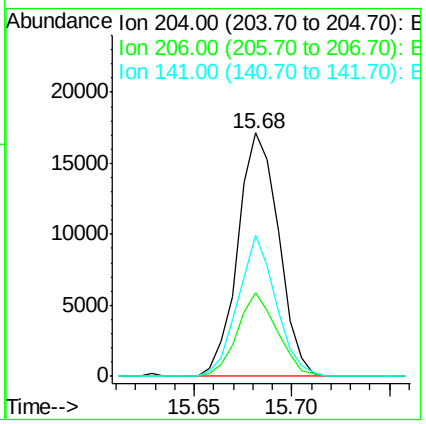


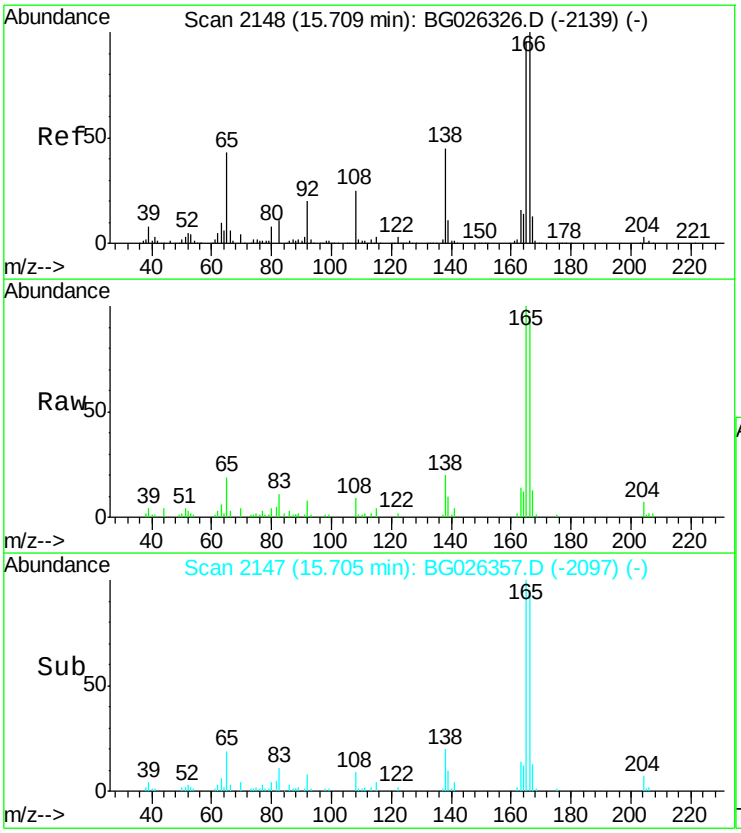

#60
4-Chlorophenyl-phenylether
Concen: 2.11 ng
RT: 15.68 min Scan# 2143
Delta R.T. -0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

**Instrument :**
BNA_G
**ClientSampleId :**
LOD-WATER-05-QT2-2017

Tgt Ion:204 Resp: 24820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 34.4 | 30.1 | 45.1 |
| 141 | 58.1 | 50.6 | 76.0 |

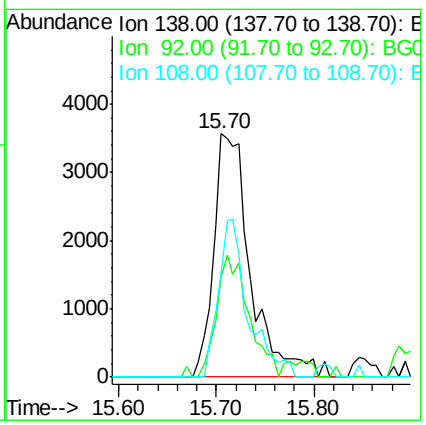


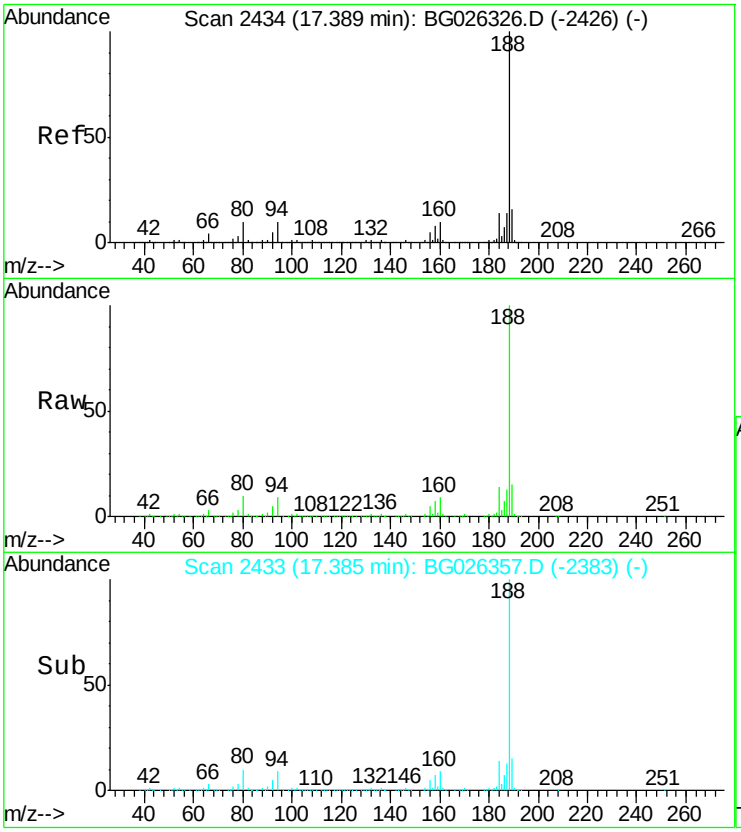




#61
4-Nitroaniline
Concen: 1.50 ng
RT: 15.70 min Scan# 2147
Delta R.T. -0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

Tgt Ion:138 Resp: 9344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 41.4 | 44.2 | 84.2# |
| 108 | 42.6 | 104.8 | 144.8# |



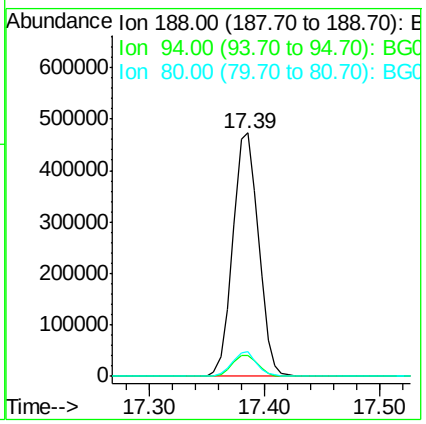


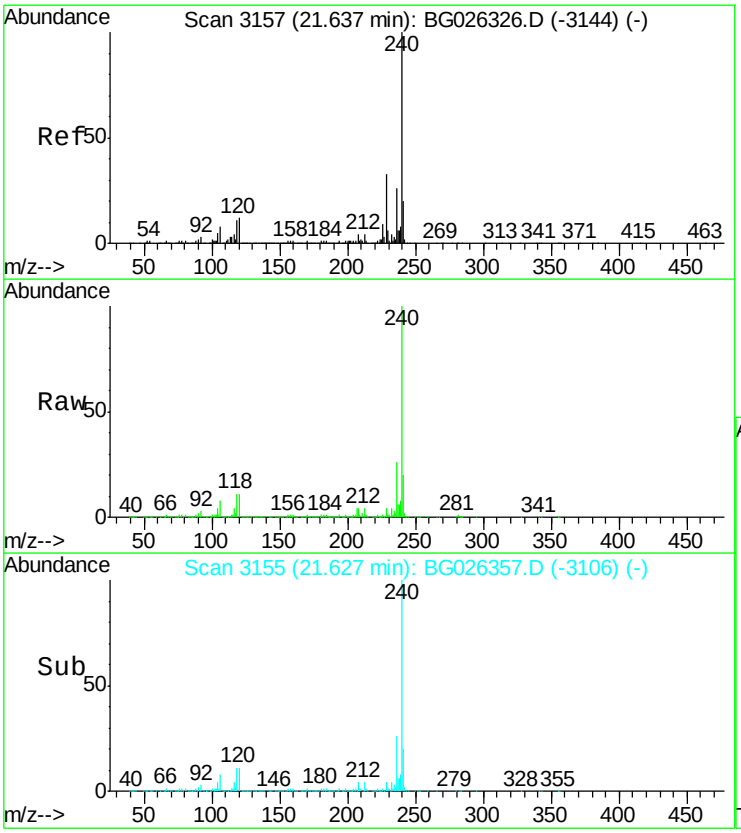

#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.39 min Scan# 2433
Delta R.T. -0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

**Instrument :**
BNA_G
**ClientSampleId :**
LOD-WATER-05-QT2-2017

Tgt Ion:188 Resp: 729445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.6 | 5.8 | 8.8 |
| 80 | 10.1 | 7.5 | 11.3 |

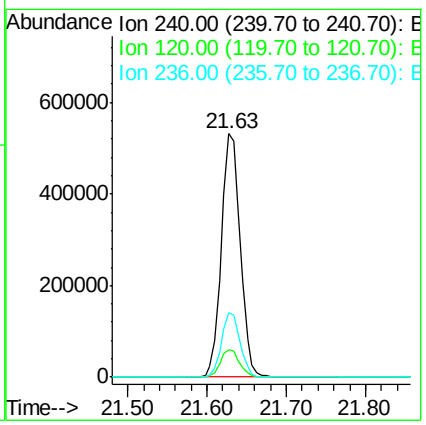


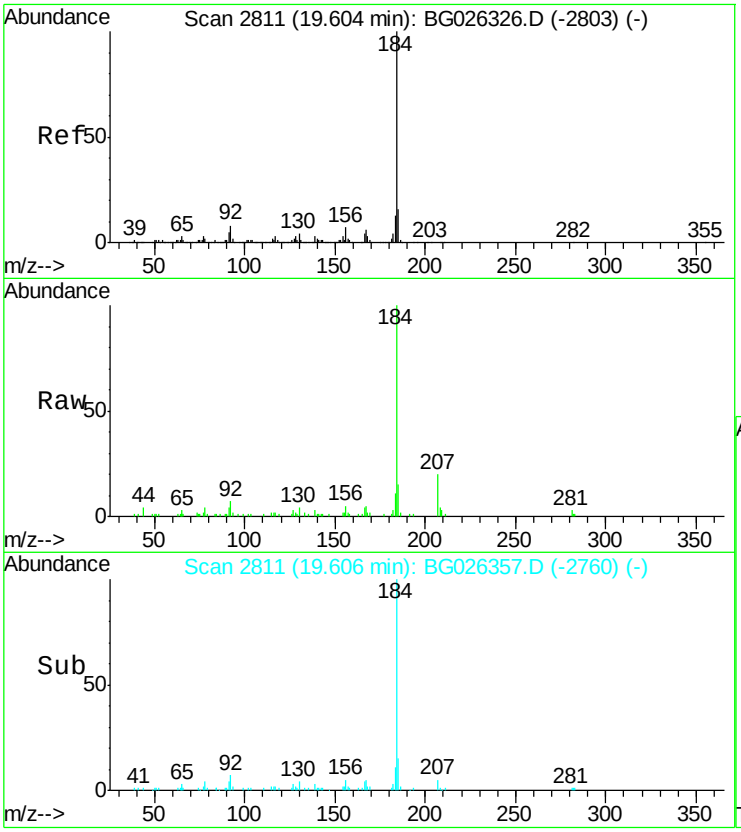




#75
Chrysene-d12
Concen: 20.00 ng
RT: 21.63 min Scan# 3155
Delta R.T. -0.01 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

Tgt Ion:240 Resp: 875895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.1 | 5.7 | 8.5# |
| 236 | 26.4 | 22.2 | 33.4 |



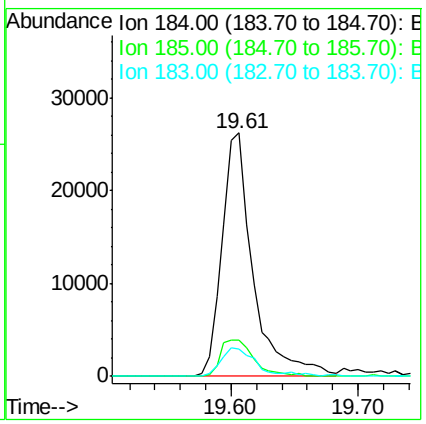


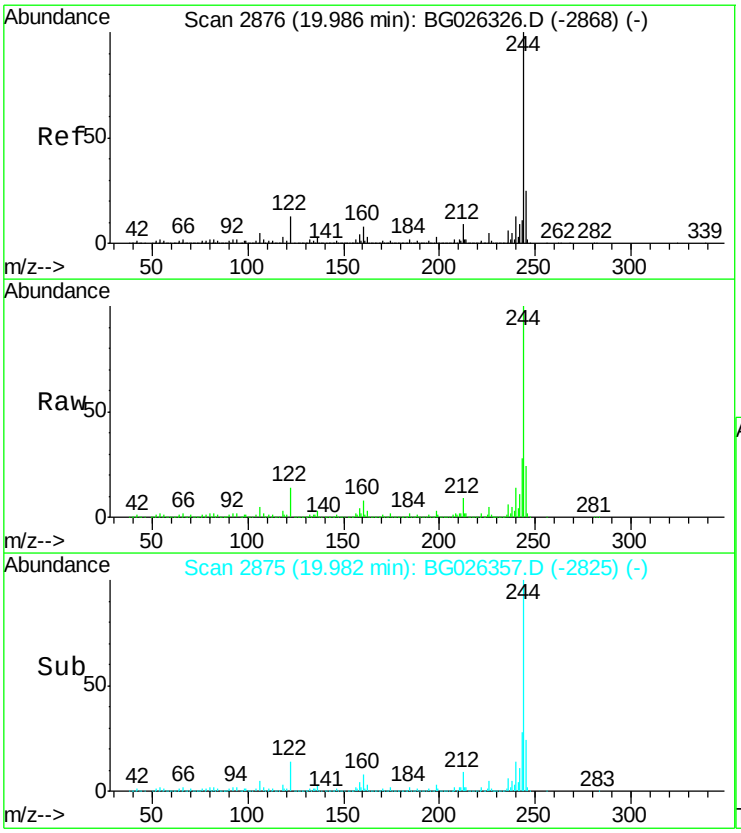

#76
Benzidine
Concen: 1.48 ng
RT: 19.61 min Scan# 2811
Delta R.T. 0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

**Instrument :**
BNA_G
**ClientSampleId :**
LOD-WATER-05-QT2-2017

Tgt Ion:184 Resp: 44634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 14.7 | 13.0 | 19.6 |
| 183 | 11.1 | 11.0 | 16.6 |

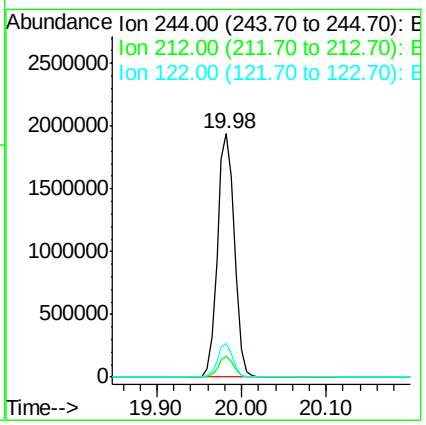


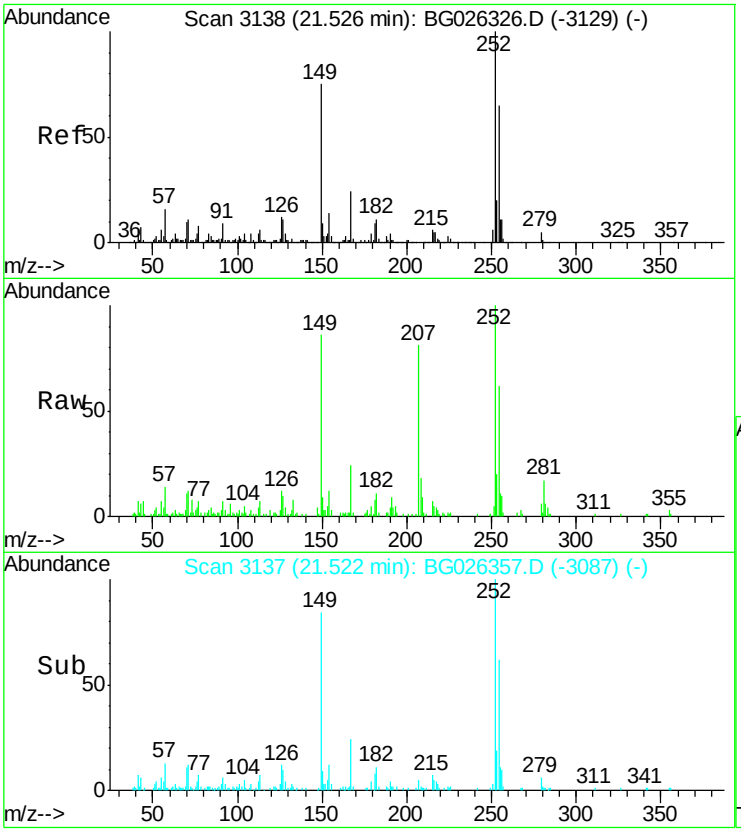




#78
Terphenyl-d14
Concen: 75.57 ng
RT: 19.98 min Scan# 2875
Delta R.T. -0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

Tgt Ion:244 Resp: 2725689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 8.6 | 10.0 | 15.0# |
| 122 | 13.8 | 8.6 | 12.8# |



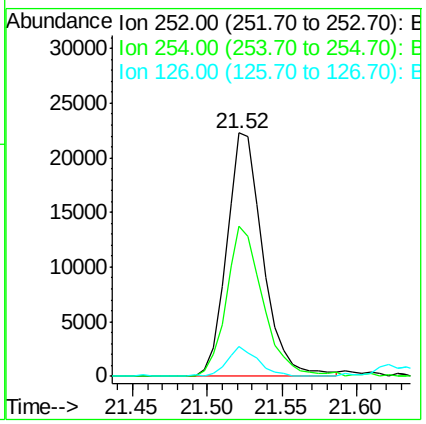


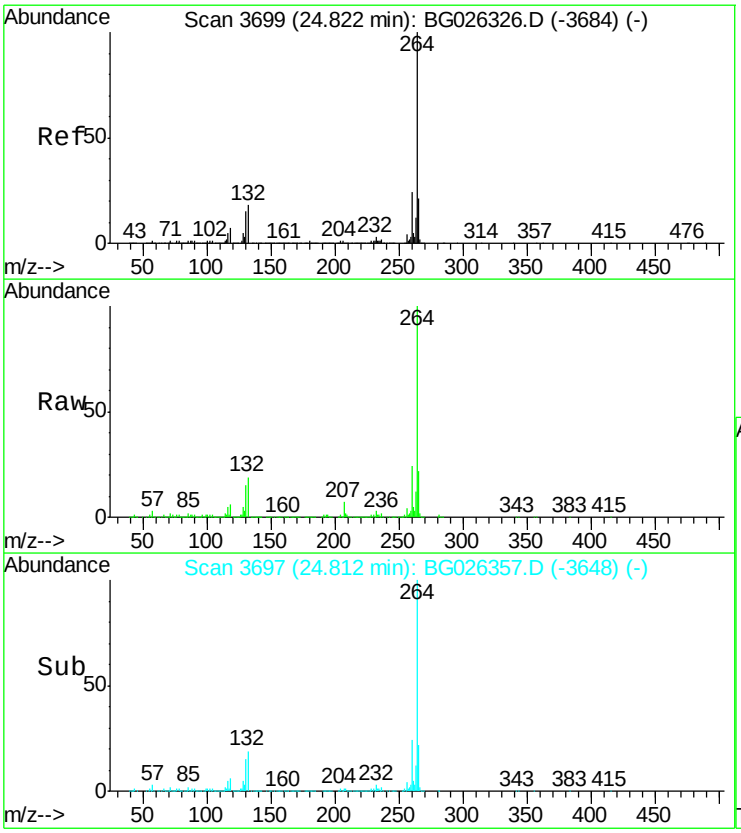

#81
3,3'-Dichlorobenzidine
Concen: 1.87 ng
RT: 21.52 min Scan# 3137
Delta R.T. -0.00 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

**Instrument :**
BNA_G
**ClientSampleId :**
LOD-WATER-05-QT2-2017

Tgt Ion:252 Resp: 37673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 61.7 | 53.1 | 79.7 |
| 126 | 12.4 | 7.0 | 10.4# |




#86
Perylene-d12
Concen: 20.00 ng
RT: 24.81 min Scan# 3697
Delta R.T. -0.01 min
Lab File: BG026357.D
Acq: 21 Mar 2017 14:05

Tgt Ion:264 Resp: 845385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.9 | 21.8 | 32.8 |
| 265 | 22.1 | 18.2 | 27.4 |