Quantitation Report (LSC Reviewed)

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA G\DATA\BG121417\
Data File : BG031589.D
Acq On : 15 Dec 2017 10:52
Operator : SJ/JU
Sample : I6830-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MAP-3-E(13-14)

Quant Time: Dec 15 13:41:51 2017
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG121117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 11 17:25:55 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 8.10 | 152 | 86497 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 10.92 | 136 | 345240 | 20.00 | ng | | 0.00 |
| 38) Acenaphthene-d10 | 14.74 | 164 | 239592 | 20.00 | ng | | 0.01 |
| 63) Phenanthrene-d10 | 17.49 | 188 | 493905 | 20.00 | ng | | 0.01 |
| 75) Chrysene-d12 | 21.74 | 240 | 578128 | 20.00 | ng | | -0.01 |
| 86) Perylene-d12 | 25.01 | 264 | 538089 | 20.00 | ng | | -0.02 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.66 | 112 | 658561 | 134.95 | ng | | -0.01 |
| 7) Phenol-d6 | 7.27 | 99 | 811227 | 119.75 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 9.27 | 82 | 581005 | 103.73 | ng | | 0.00 |
| 41) 2,4,6-Tribromophenol | 16.24 | 330 | 370299 | 131.92 | ng | | 0.02 |
| 44) 2-Fluorobiphenyl | 13.36 | 172 | 1301748 | 79.75 | ng | | 0.01 |
| 78) Terphenyl-d14 | 20.07 | 244 | 1932505 | 76.05 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 3) Pyridine | 3.90 | 79 | 202937 | 33.103 | ng | | 86 |
| 10) Phenol | 7.29 | 94 | 38468 | 5.528 | ng | | 96 |
| 31) Naphthalene | 10.97 | 128 | 273254 | 16.111 | ng | # | 64 |
| 37) 2-Methylnaphthalene | 12.58 | 142 | 1176617 | 89.599 | ng | | 93 |
| 45) 1,1'-Biphenyl | 13.58 | 154 | 705523 | 35.852 | ng | | 96 |
| 51) Acenaphthene | 14.81 | 154 | 255157 | 17.412 | ng | # | 80 |
| 57) Fluorene | 15.80 | 166 | 617713 | 32.968 | ng | # | 92 |
| 70) Phenanthrene | 17.53 | 178 | 1844420 | 71.504 | ng | # | 90 |
| 74) Fluoranthene | 19.53 | 202 | 94598 | 2.930 | ng | | 68 |
| 77) Pyrene | 19.89 | 202 | 370714 | 10.320 | ng | # | 62 |

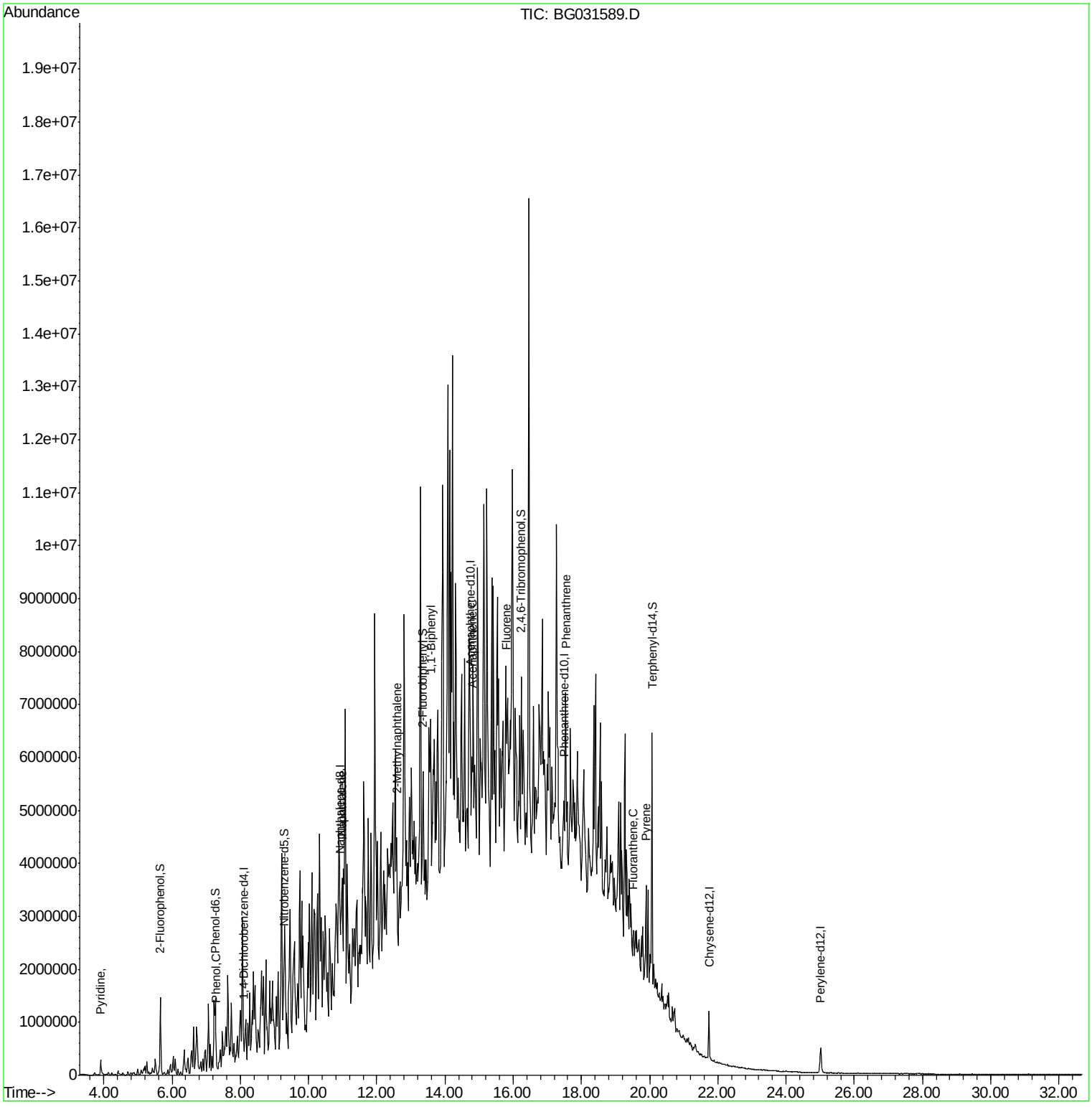
(#) = qualifier out of range (m) = manual integration (+) = signals summed

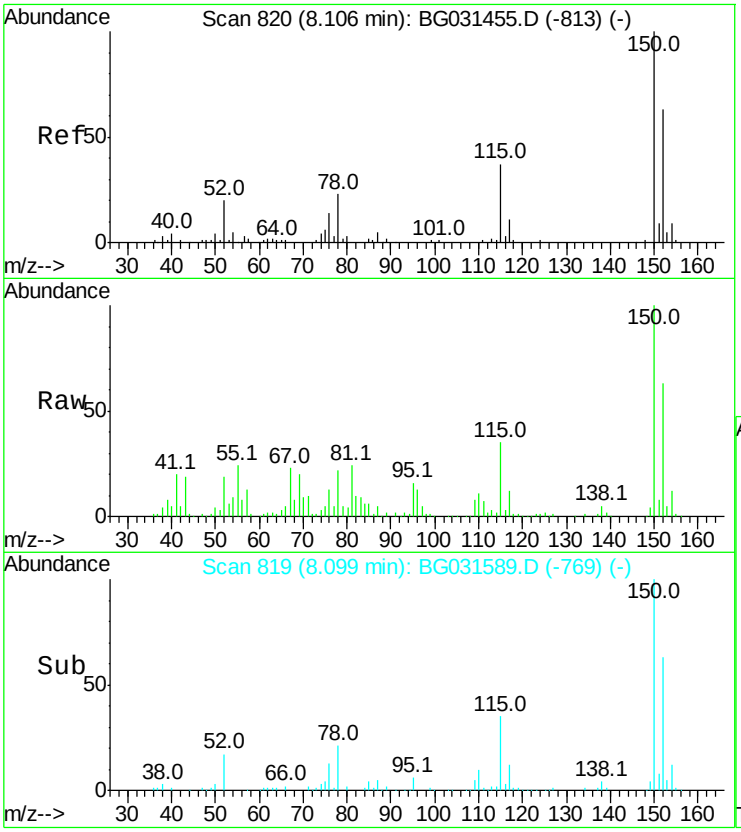
Quantitation Report (LSC Reviewed)

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA G\DATA\BG121417\
Data File : BG031589.D
Acq On : 15 Dec 2017 10:52
Operator : SJ/JU
Sample : I6830-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
MAP-3-E(13-14)

Quant Time: Dec 15 13:41:51 2017
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG121117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 11 17:25:55 2017
Response via : Initial Calibration



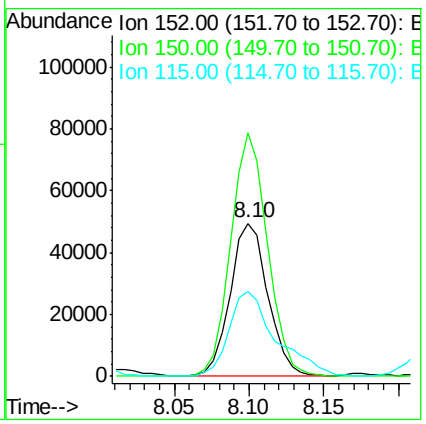


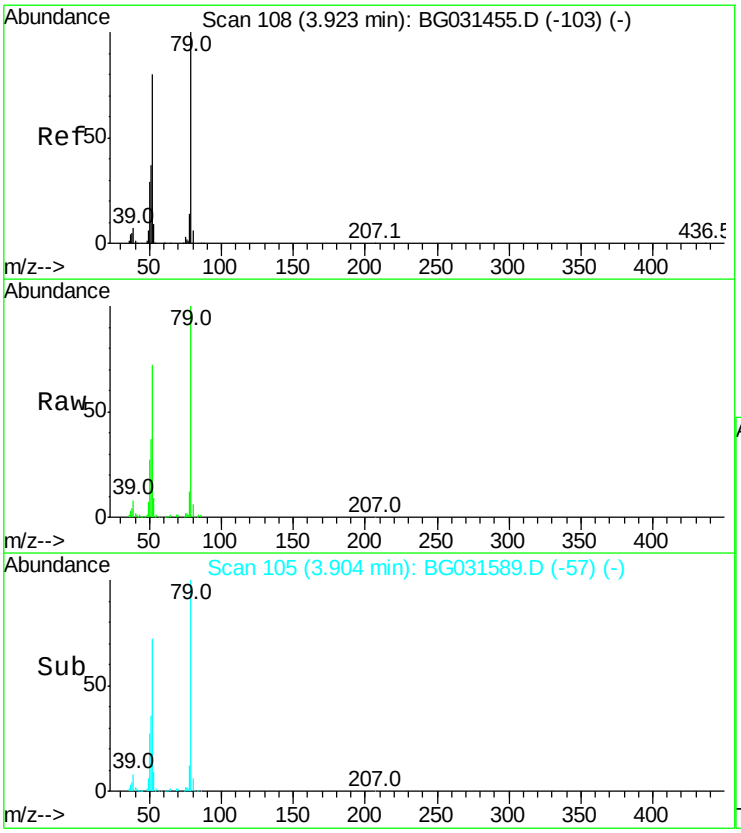

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.10 min Scan# 819
Delta R.T. -0.01 min
Lab File: BG031589.D
Acq: 15 Dec 2017 10:52

**Instrument :**
BNA_G
**ClientSampleId :**
MAP-3-E(13-14)

Tgt Ion:152 Resp: 86497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 159.4 | 126.6 | 189.8 |
| 115 | 55.5 | 53.0 | 79.4 |

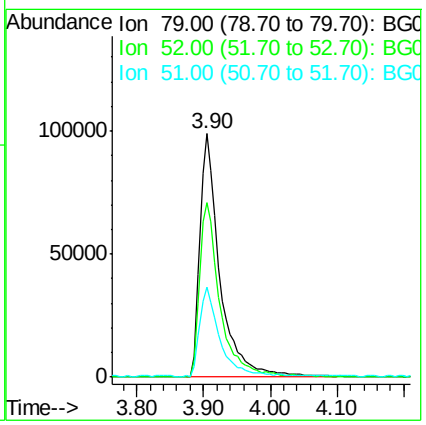


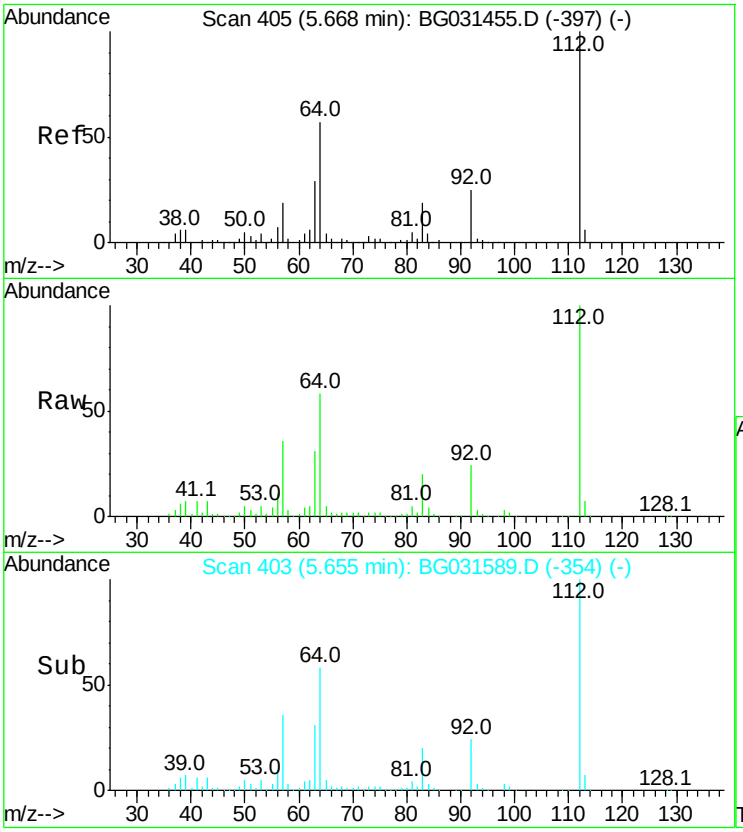




#3
Pyridine
Concen: 33.103 ng
RT: 3.90 min Scan# 105
Delta R.T. -0.02 min
Lab File: BG031589.D
Acq: 15 Dec 2017 10:52

Tgt Ion: 79 Resp: 202937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 71.8 | 69.9 | 104.9 |
| 51 | 36.9 | 34.0 | 51.0 |



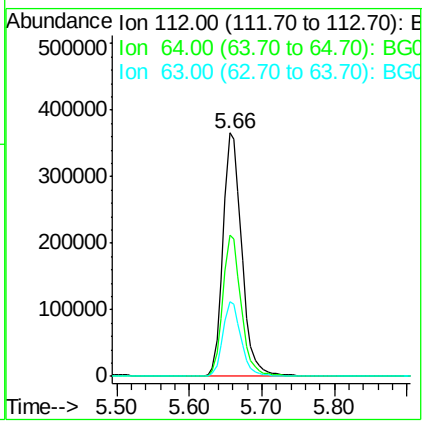


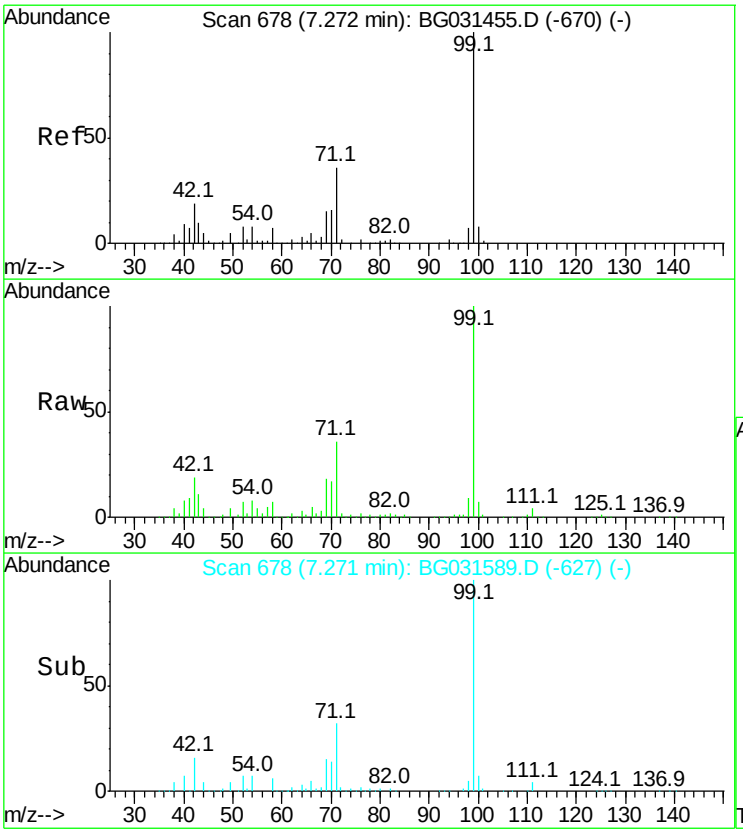

#5
2-Fluorophenol
Concen: 134.954 ng
RT: 5.66 min Scan# 403
Delta R.T. -0.01 min
Lab File: BG031589.D
Acq: 15 Dec 2017 10:52

**Instrument :**
BNA_G
**ClientSampleId :**
MAP-3-E(13-14)

Tgt Ion:112 Resp: 658561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 58.2 | 56.3 | 84.5 |
| 63 | 30.9 | 30.1 | 45.1 |

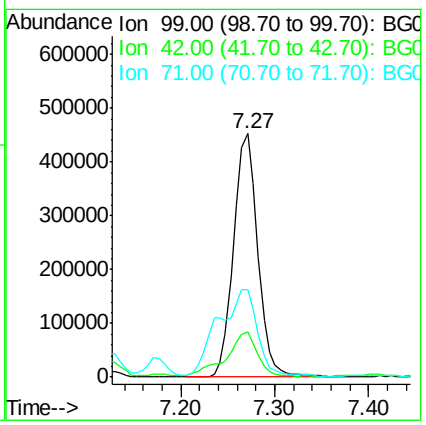


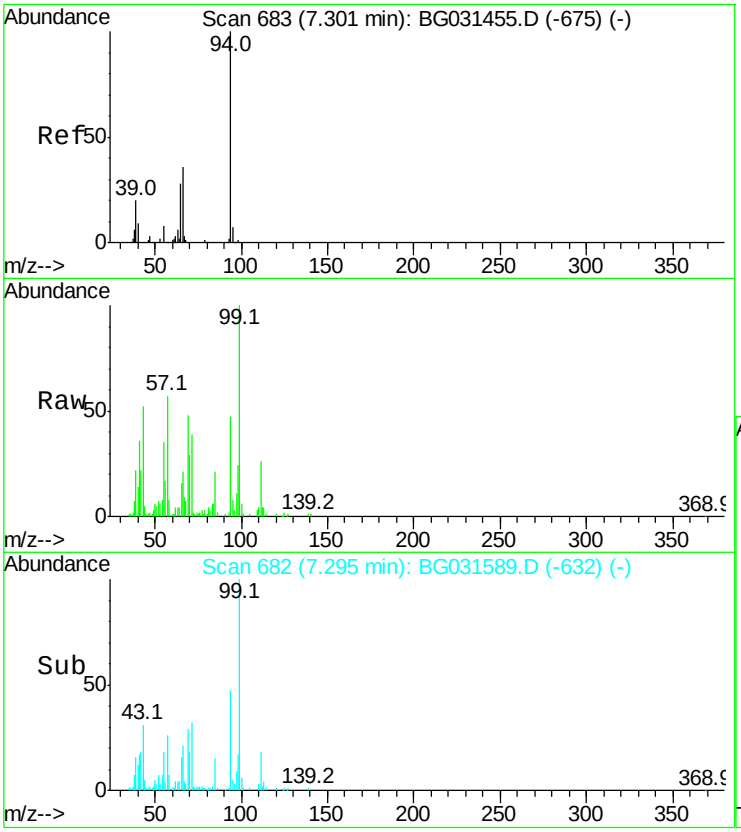




#7
Phenol-d6
Concen: 119.748 ng
RT: 7.27 min Scan# 678
Delta R.T. -0.00 min
Lab File: BG031589.D
Acq: 15 Dec 2017 10:52

Tgt Ion: 99 Resp: 811227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 18.6 | 14.1 | 21.1 |
| 71 | 36.1 | 26.1 | 39.1 |



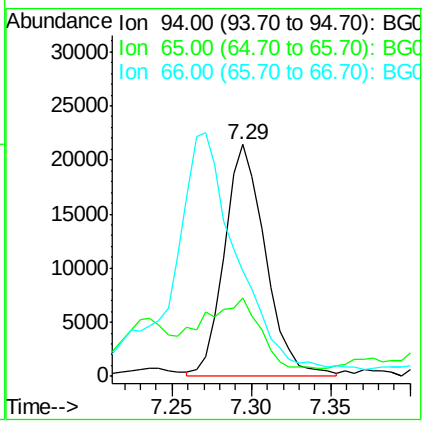


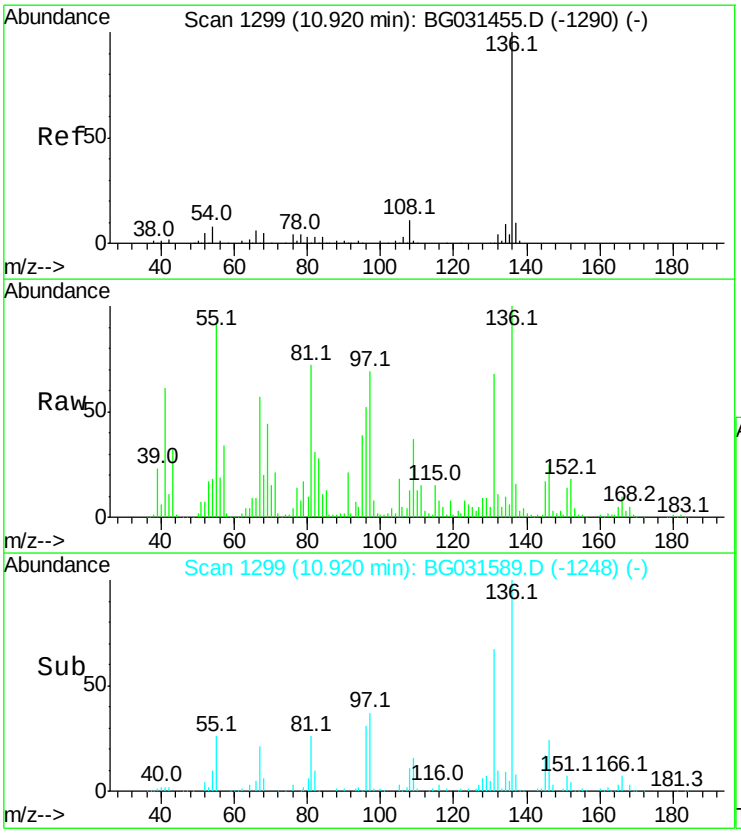

#10
Phenol
Concen: 5.528 ng
RT: 7.29 min Scan# 682
Delta R.T. -0.01 min
Lab File: BG031589.D
Acq: 15 Dec 2017 10:52

**Instrument :**
BNA_G
**ClientSampleId :**
MAP-3-E(13-14)

Tgt Ion: 94 Resp: 38468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 33.9 | 11.9 | 51.9 |
| 66 | 45.4 | 22.2 | 62.2 |

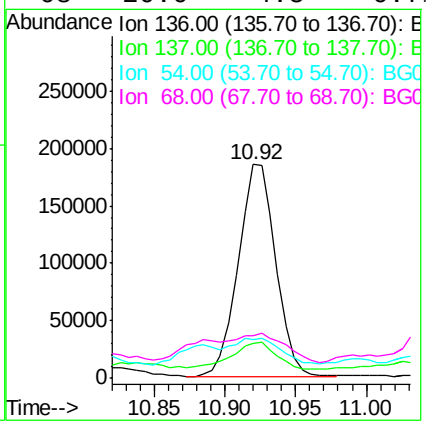


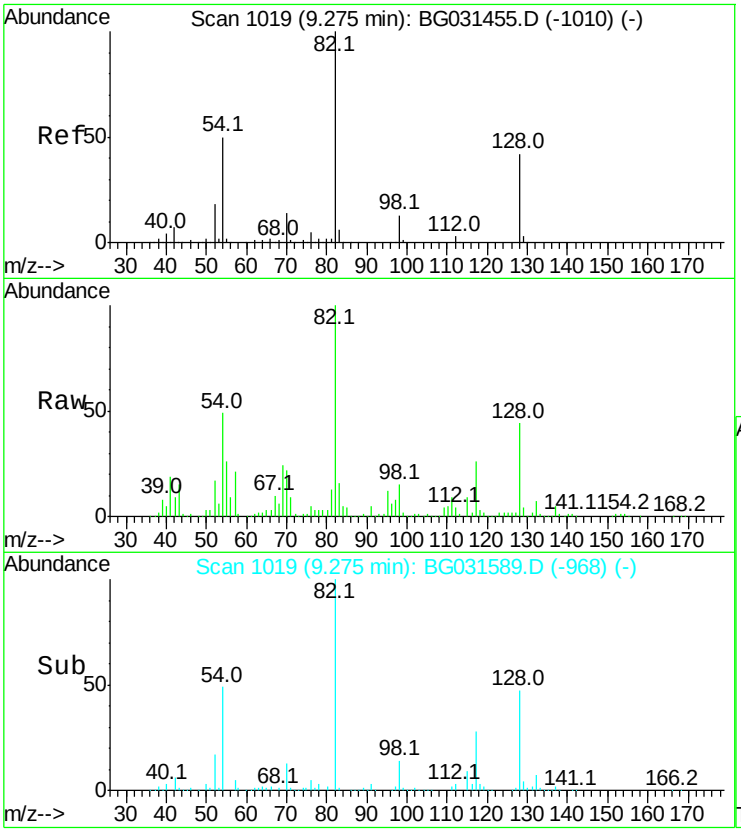




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.92 min Scan# 1299
Delta R.T. -0.00 min
Lab File: BG031589.D
Acq: 15 Dec 2017 10:52

Tgt Ion:136 Resp: 345240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 16.2 | 9.2 | 13.8# |
| 54 | 18.1 | 10.3 | 15.5# |
| 68 | 20.0 | 4.5 | 6.7# |



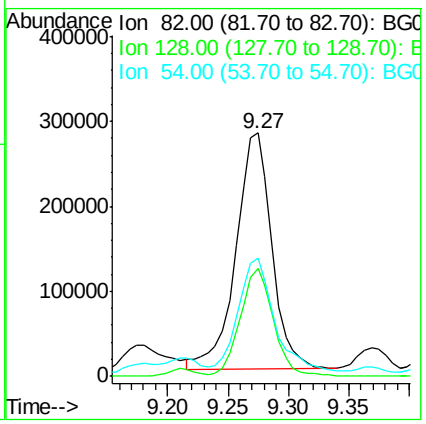


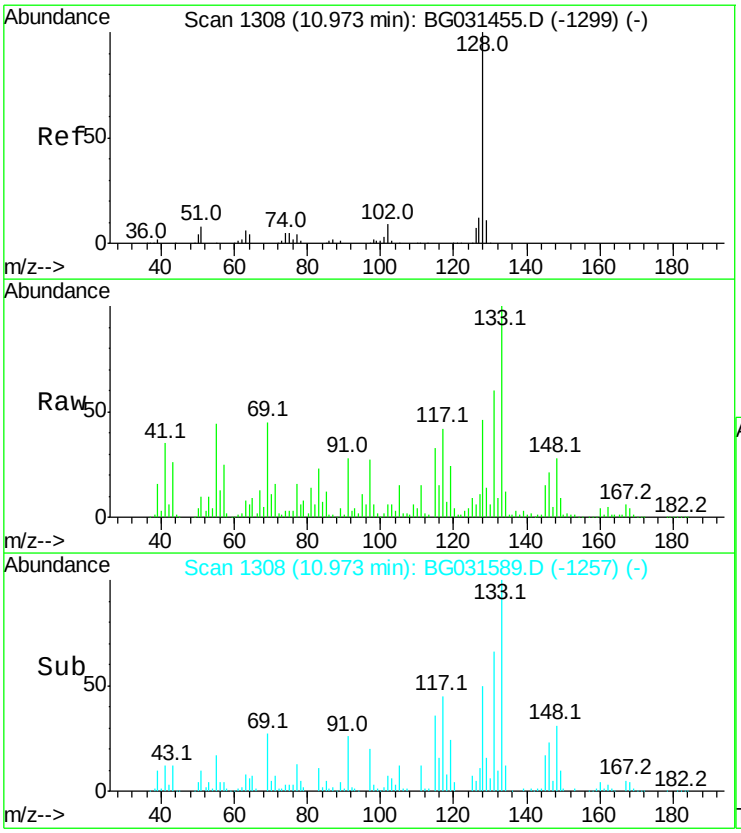

#23
Nitrobenzene-d5
Concen: 103.728 ng
RT: 9.27 min Scan# 1019
Delta R.T. -0.00 min
Lab File: BG031589.D
Acq: 15 Dec 2017 10:52

**Instrument :**
BNA_G
**ClientSampleId :**
MAP-3-E(13-14)

Tgt Ion: 82 Resp: 581005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 44.2 | 29.7 | 44.5 |
| 54 | 48.6 | 43.1 | 64.7 |

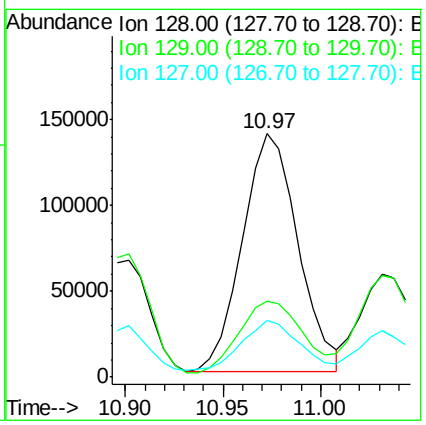


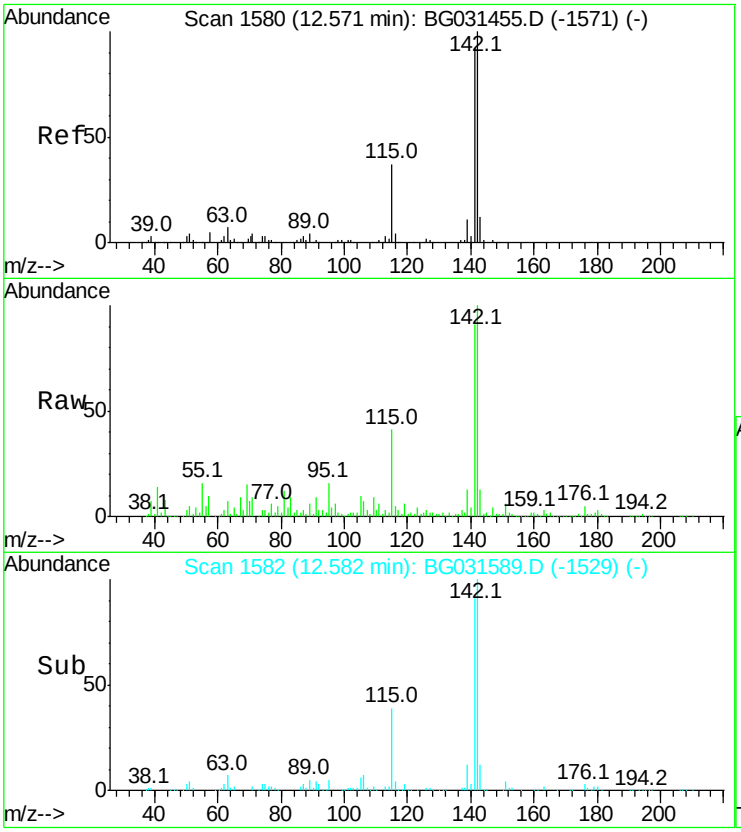




#31
Naphthalene
Concen: 16.111 ng
RT: 10.97 min Scan# 1308
Delta R.T. -0.00 min
Lab File: BG031589.D
Acq: 15 Dec 2017 10:52

Tgt Ion:128 Resp: 273254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 31.2 | 8.6 | 12.8# |
| 127 | 23.4 | 11.6 | 17.4# |



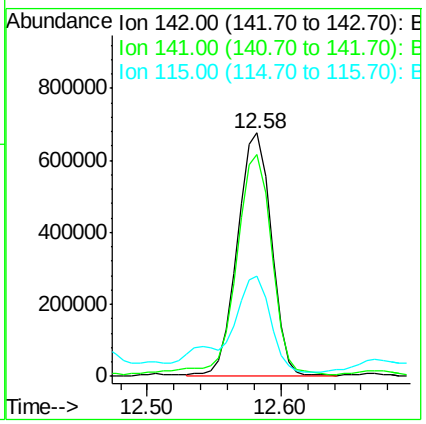


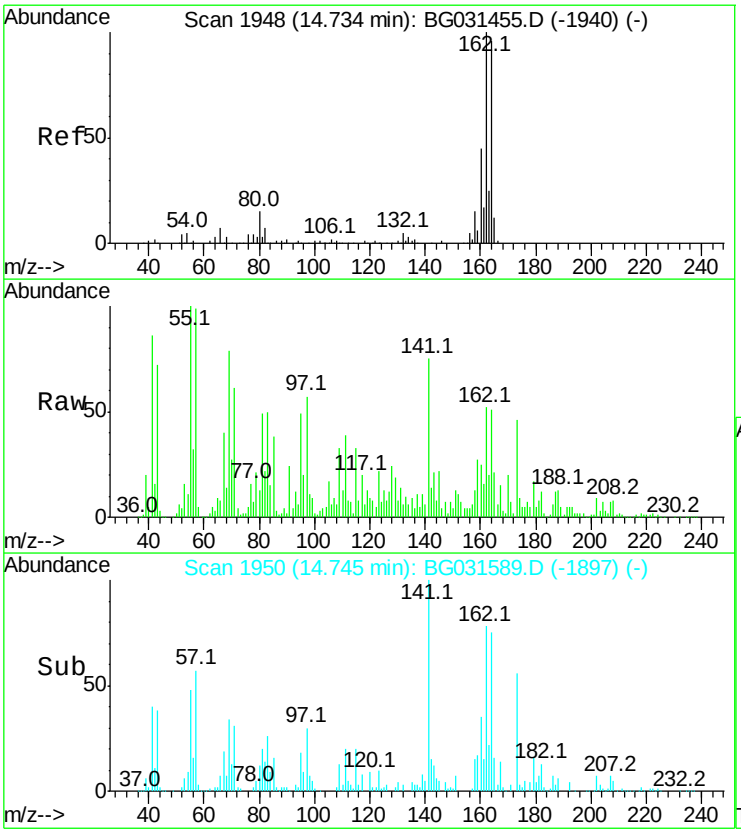

#37
2-Methylnaphthalene
Concen: 89.599 ng
RT: 12.58 min Scan# 1582
Delta R.T. 0.01 min
Lab File: BG031589.D
Acq: 15 Dec 2017 10:52

**Instrument :**
BNA_G
**ClientSampleId :**
MAP-3-E(13-14)

Tgt Ion:142 Resp: 1176617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.0 | 67.1 | 100.7 |
| 115 | 41.4 | 30.7 | 46.1 |

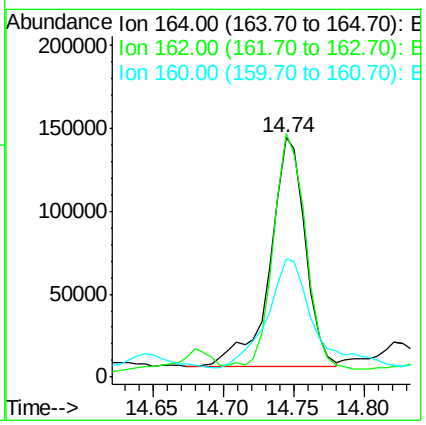


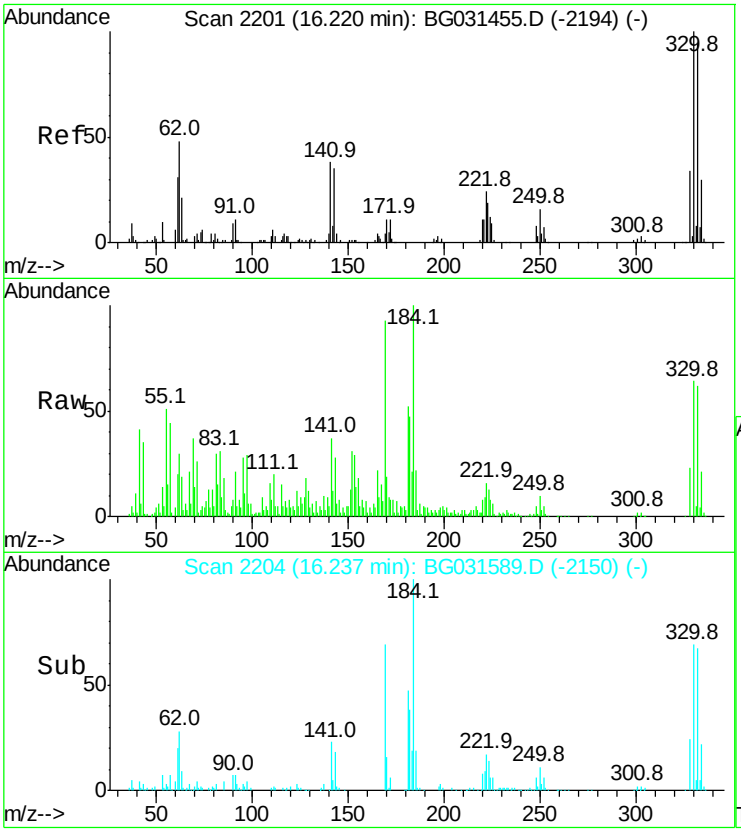




#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.74 min Scan# 1950
Delta R.T. 0.01 min
Lab File: BG031589.D
Acq: 15 Dec 2017 10:52

Tgt Ion:164 Resp: 239592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.8 | 78.8 | 118.2 |
| 160 | 49.3 | 35.4 | 53.0 |



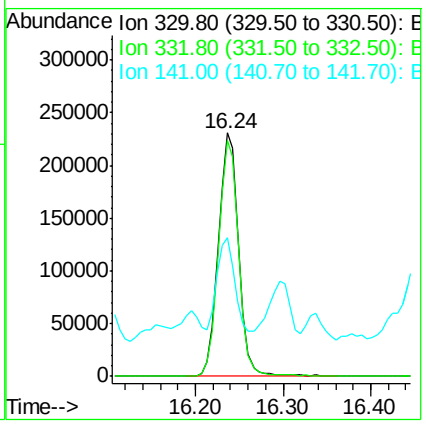


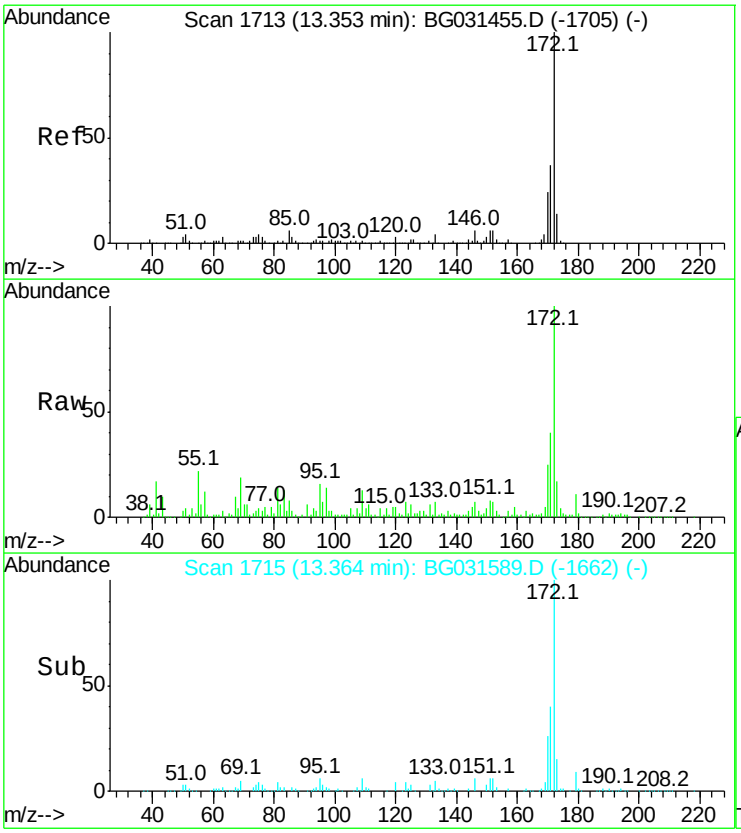

#41
2,4,6-Tribromophenol
Concen: 131.924 ng
RT: 16.24 min Scan# 2204
Delta R.T. 0.02 min
Lab File: BG031589.D
Acq: 15 Dec 2017 10:52

**Instrument :**
BNA_G
**ClientSampleId :**
MAP-3-E(13-14)

Tgt Ion:330 Resp: 370299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.6 | 77.0 | 115.6 |
| 141 | 32.4 | 25.2 | 37.8 |

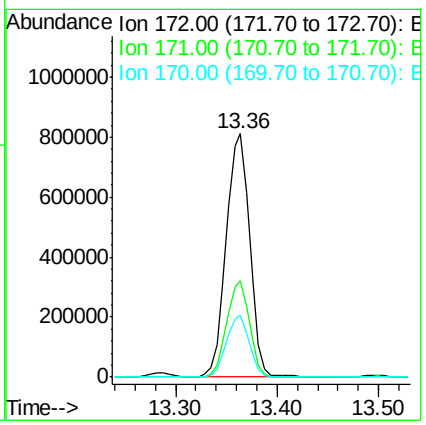


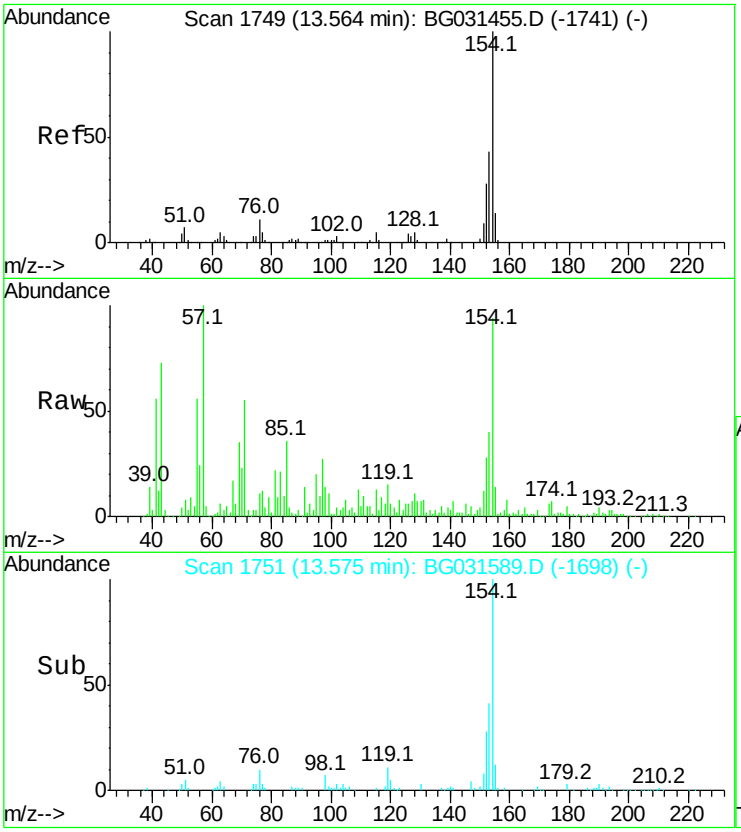




#44
2-Fluorobiphenyl
Concen: 79.752 ng
RT: 13.36 min Scan# 1715
Delta R.T. 0.01 min
Lab File: BG031589.D
Acq: 15 Dec 2017 10:52

Tgt Ion:172 Resp: 1301748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 39.6 | 30.0 | 45.0 |
| 170 | 25.4 | 19.5 | 29.3 |



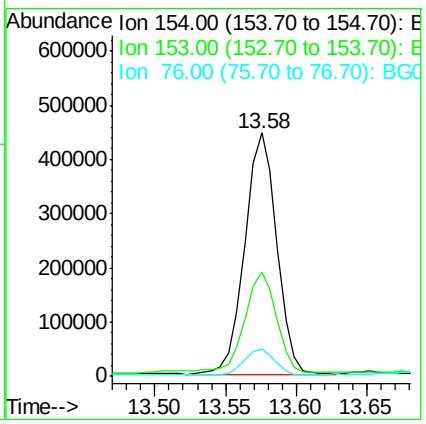


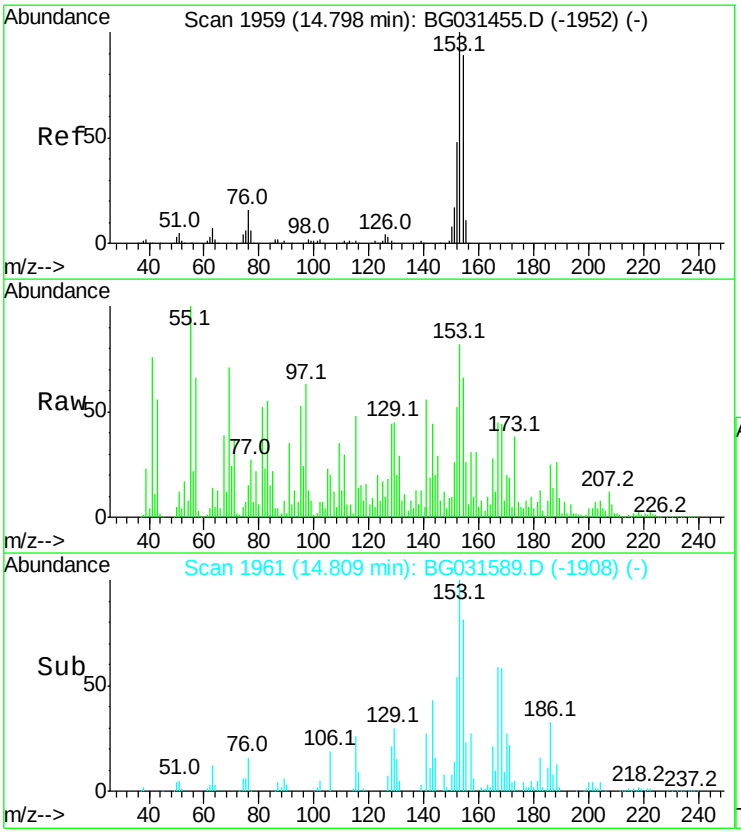

#45
1,1'-Biphenyl
Concen: 35.852 ng
RT: 13.58 min Scan# 1751
Delta R.T. 0.01 min
Lab File: BG031589.D
Acq: 15 Dec 2017 10:52

**Instrument :**
BNA_G
**ClientSampleId :**
MAP-3-E(13-14)

Tgt Ion:154 Resp: 705523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 42.8 | 19.8 | 59.8 |
| 76 | 11.2 | 0.0 | 31.9 |

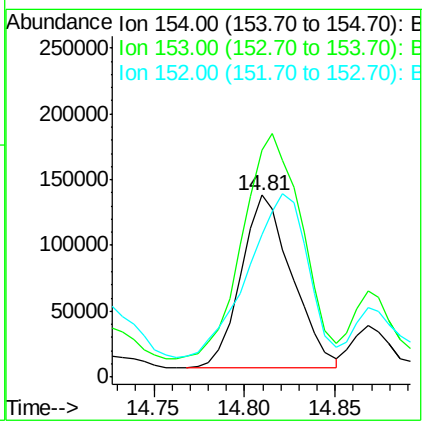


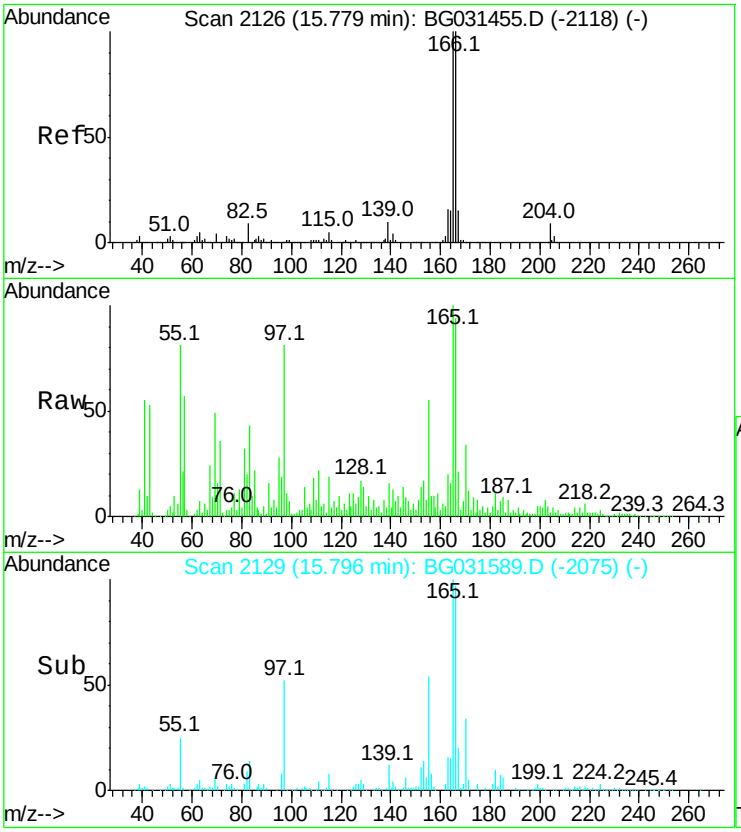




#51
Acenaphthene
Concen: 17.412 ng
RT: 14.81 min Scan# 1961
Delta R.T. 0.01 min
Lab File: BG031589.D
Acq: 15 Dec 2017 10:52

Tgt Ion:154 Resp: 255157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 125.2 | 90.4 | 135.6 |
| 152 | 78.6 | 41.6 | 62.4# |



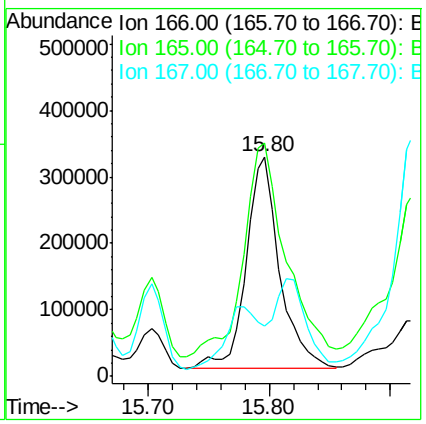


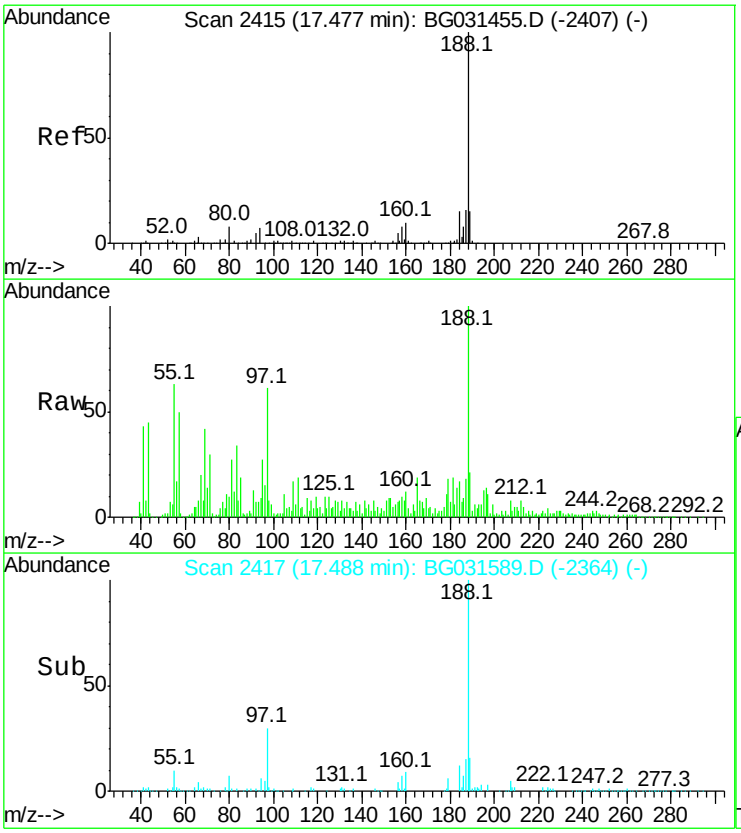

#57
Fluorene
Concen: 32.968 ng
RT: 15.80 min Scan# 2129
Delta R.T. 0.02 min
Lab File: BG031589.D
Acq: 15 Dec 2017 10:52

**Instrument :**
BNA_G
**ClientSampleId :**
MAP-3-E(13-14)

Tgt Ion:166 Resp: 617713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 106.2 | 80.6 | 121.0 |
| 167 | 22.7 | 10.4 | 15.6# |

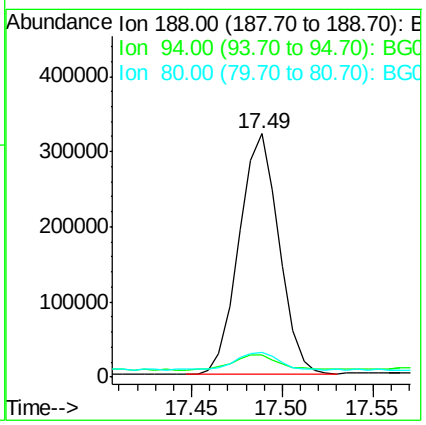


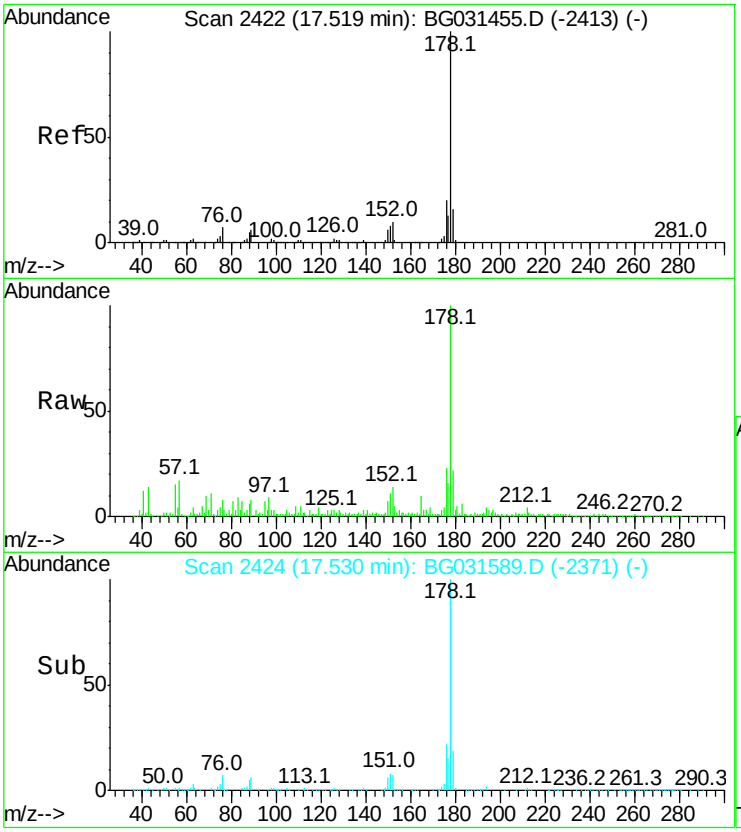




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.49 min Scan# 2417
Delta R.T. 0.01 min
Lab File: BG031589.D
Acq: 15 Dec 2017 10:52

Tgt Ion:188 Resp: 493905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.2 | 6.9 | 10.3 |
| 80 | 10.4 | 7.7 | 11.5 |



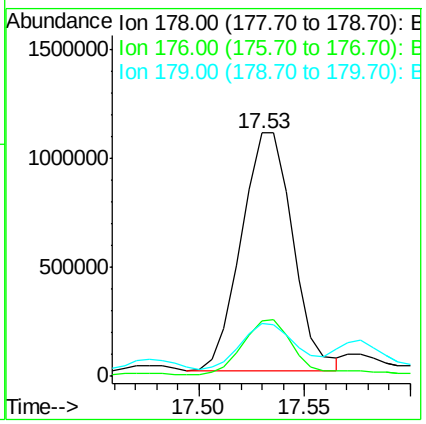


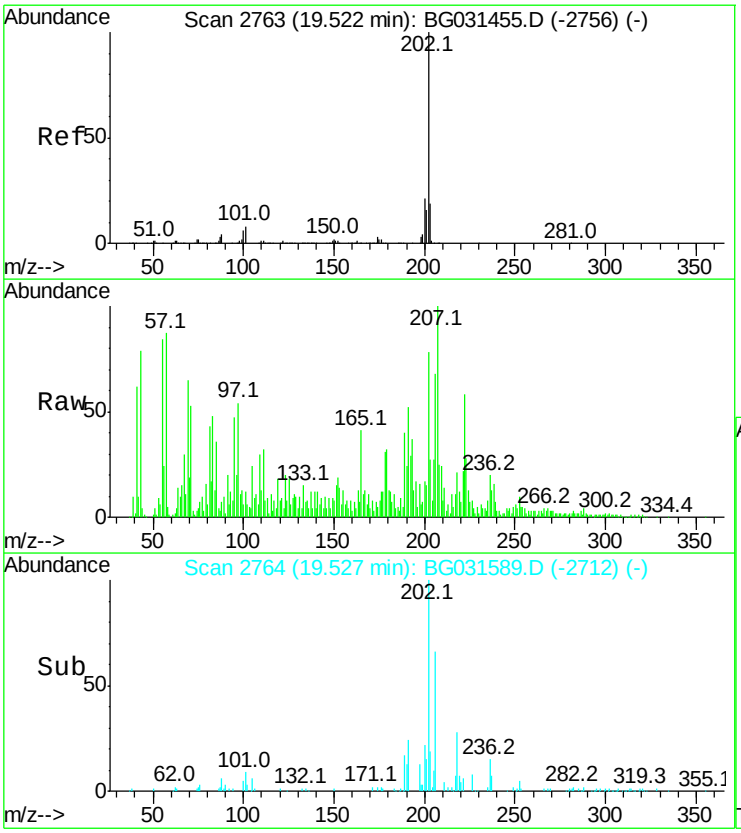

#70
Phenanthrene
Concen: 71.504 ng
RT: 17.53 min Scan# 2424
Delta R.T. 0.01 min
Lab File: BG031589.D
Acq: 15 Dec 2017 10:52

**Instrument :**
BNA_G
**ClientSampleId :**
MAP-3-E(13-14)

Tgt Ion:178 Resp: 1844420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 22.8 | 15.7 | 23.5 |
| 179 | 21.7 | 12.5 | 18.7# |

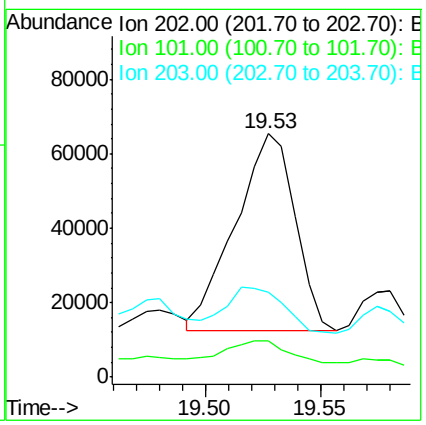


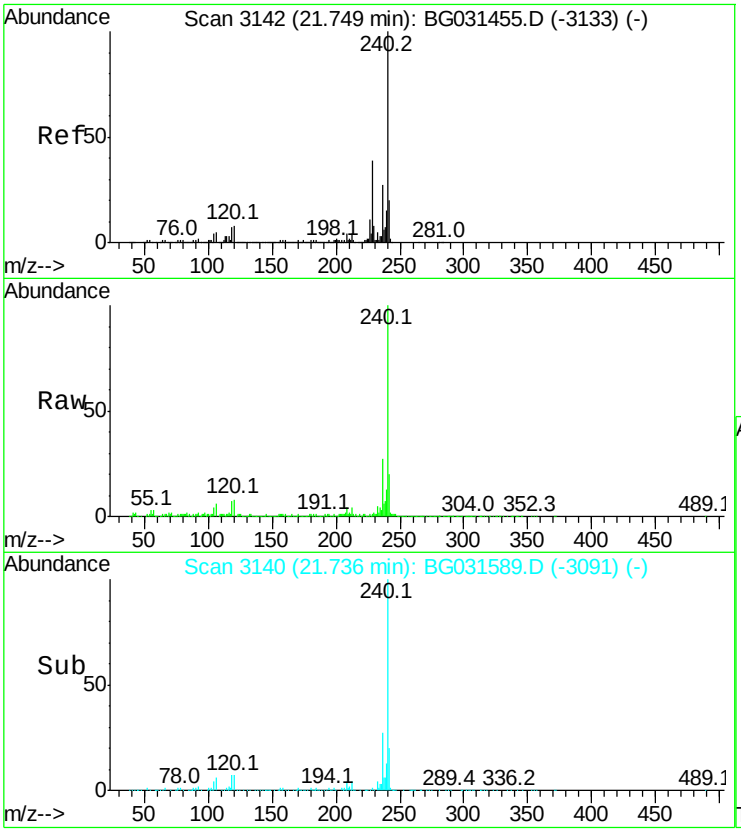




#74
Fluoranthene
Concen: 2.930 ng
RT: 19.53 min Scan# 2764
Delta R.T. 0.01 min
Lab File: BG031589.D
Acq: 15 Dec 2017 10:52

Tgt Ion:202 Resp: 94598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 14.7 | 0.0 | 28.9 |
| 203 | 34.8 | 0.0 | 37.5 |



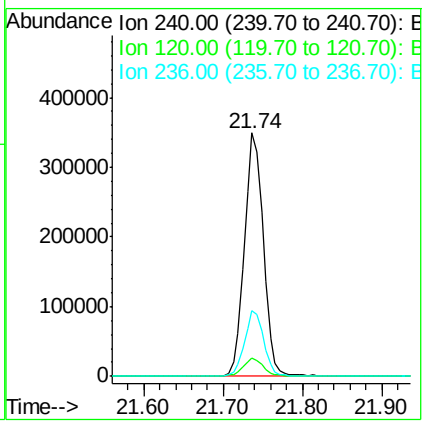


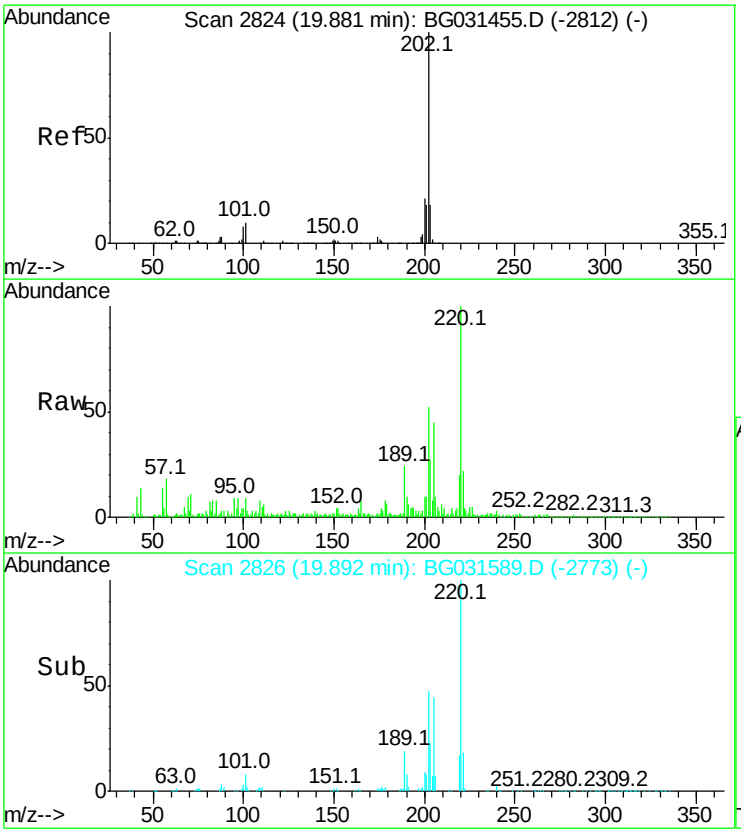

#75
Chrysene-d12
Concen: 20.000 ng
RT: 21.74 min Scan# 3140
Delta R.T. -0.01 min
Lab File: BG031589.D
Acq: 15 Dec 2017 10:52

**Instrument :**
BNA_G
**ClientSampleId :**
MAP-3-E(13-14)

Tgt Ion:240 Resp: 578128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 7.5 | 6.8 | 10.2 |
| 236 | 26.8 | 20.9 | 31.3 |

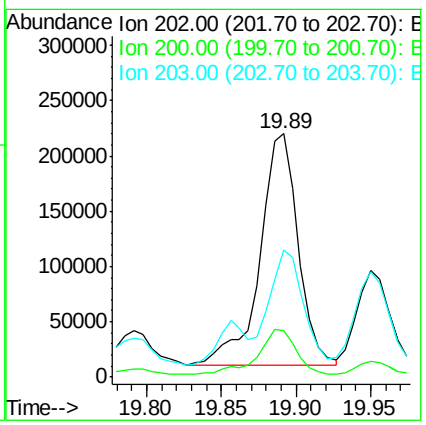


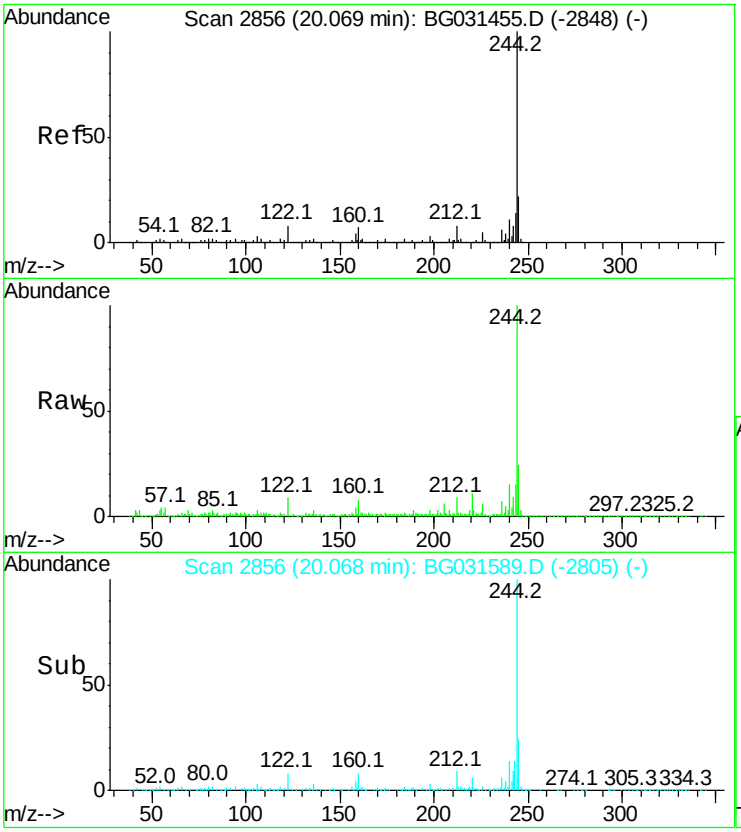




#77
Pyrene
Concen: 10.320 ng
RT: 19.89 min Scan# 2826
Delta R.T. 0.01 min
Lab File: BG031589.D
Acq: 15 Dec 2017 10:52

Tgt Ion:202 Resp: 370714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 19.0 | 16.9 | 25.3 |
| 203 | 52.0 | 13.9 | 20.9# |



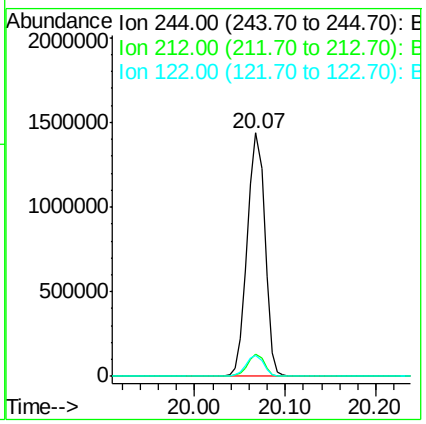


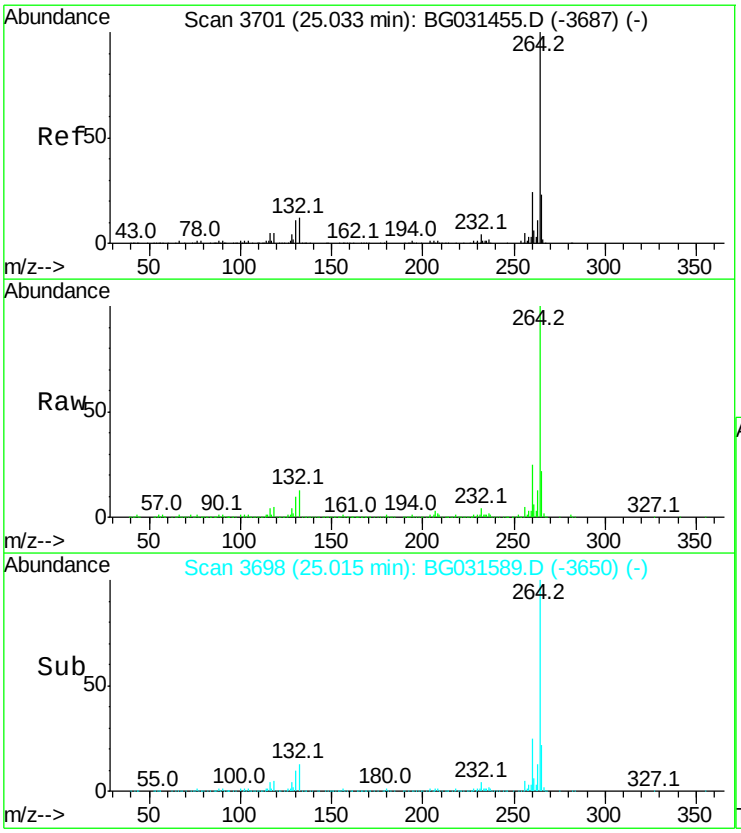

#78
Terphenyl-d14
Concen: 76.052 ng
RT: 20.07 min Scan# 2856
Delta R.T. -0.00 min
Lab File: BG031589.D
Acq: 15 Dec 2017 10:52

**Instrument :**
BNA_G
**ClientSampleId :**
MAP-3-E(13-14)

Tgt Ion:244 Resp: 1932505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.3 | 5.8 | 8.8# |
| 122 | 8.7 | 7.0 | 10.4 |




#86
Perylene-d12
Concen: 20.000 ng
RT: 25.01 min Scan# 3698
Delta R.T. -0.02 min
Lab File: BG031589.D
Acq: 15 Dec 2017 10:52

Tgt Ion:264 Resp: 538089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.9 | 17.4 | 26.0 |
| 265 | 21.8 | 17.7 | 26.5 |