Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110215\
Data File : BF082638.D
Acq On : 2 Nov 2015 18:37
Operator : UM/IZ
Sample : G4234-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** DS-1

Quant Time: Nov 03 02:29:29 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF103015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Oct 31 00:17:39 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.89 | 152 | 204467 | 20.00 | ng | | -0.02 |
| 21) Naphthalene-d8 | 8.18 | 136 | 671422 | 20.00 | ng | | -0.01 |
| 38) Acenaphthene-d10 | 9.93 | 164 | 300430 | 20.00 | ng | | -0.02 |
| 63) Phenanthrene-d10 | 11.41 | 188 | 479065 | 20.00 | ng | | -0.02 |
| 75) Chrysene-d12 | 14.05 | 240 | 376990 | 20.00 | ng | | -0.02 |
| 86) Perylene-d12 | 15.51 | 264 | 357005 | 20.00 | ng | | -0.03 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.49 | 112 | 1560740 | 114.97 | ng | | -0.01 |
| 7) Phenol-d6 | 6.52 | 99 | 2299024 | 127.47 | ng | | -0.01 |
| 23) Nitrobenzene-d5 | 7.45 | 82 | 1384606 | 84.21 | ng | | -0.02 |
| 41) 2,4,6-Tribromophenol | 10.72 | 330 | 405704 | 123.39 | ng | | -0.02 |
| 44) 2-Fluorobiphenyl | 9.25 | 172 | 1823935 | 86.20 | ng | | -0.02 |
| 78) Terphenyl-d14 | 13.00 | 244 | 1393356 | 80.89 | ng | | -0.02 |
| **Target Compounds** | | | | | | | Qvalue |
| 9) Benzaldehyde | 6.66 | 77 | 59046 | 4.80 | ng | | 85 |
| 19) n-Nitroso-di-n-propylamine | 7.45 | 70 | 194142 | 14.20 | ng | # | 73 |
| 31) Naphthalene | 8.19 | 128 | 130846 | 3.60 | ng | | 97 |
| 49) Dimethylphthalate | 9.65 | 163 | 542213 | 22.10 | ng | # | 96 |
| 51) Acenaphthene | 9.96 | 154 | 96685 | 4.81 | ng | | 98 |
| 53) 2,4-Dinitrophenol | 10.21 | 184 | 690 | 6.92 | ng | # | 35 |
| 54) Dibenzofuran | 10.13 | 168 | 77405 | 2.84 | ng | # | 91 |
| 57) Fluorene | 10.48 | 166 | 104147 | 4.73 | ng | | 99 |
| 70) Phenanthrene | 11.44 | 178 | 1305285 | 48.31 | ng | | 99 |
| 71) Anthracene | 11.49 | 178 | 382529 | 14.06 | ng | | 96 |
| 72) Carbazole | 11.64 | 167 | 66471 | 2.80 | ng | | 98 |
| 74) Fluoranthene | 12.64 | 202 | 1878424 | 68.00 | ng | | 96 |
| 77) Pyrene | 12.86 | 202 | 1899543 | 68.05 | ng | | 99 |
| 80) Benzo(a)anthracene | 14.04 | 228 | 1002065 | 41.84 | ng | | 98 |
| 82) Chrysene | 14.09 | 228 | 779049 | 35.89 | ng | | 98 |
| 85) Indeno(1,2,3-cd)pyrene | 16.93 | 276 | 346959 | 19.37 | ng | | 92 |
| 87) Benzo(b)fluoranthene | 15.09 | 252 | 1161417 | 47.18 | ng | # | 97 |
| 88) Benzo(k)fluoranthene | 15.09 | 252 | 1161417 | 61.93 | ng | # | 96 |
| 89) Benzo(a)pyrene | 15.45 | 252 | 657751 | 33.93 | ng | | 96 |
| 90) Dibenzo(a,h)anthracene | 16.95 | 278 | 92593 | 5.12 | ng | | 97 |
| 91) Benzo(g,h,i)perylene | 17.36 | 276 | 337298 | 19.24 | ng | | 99 |

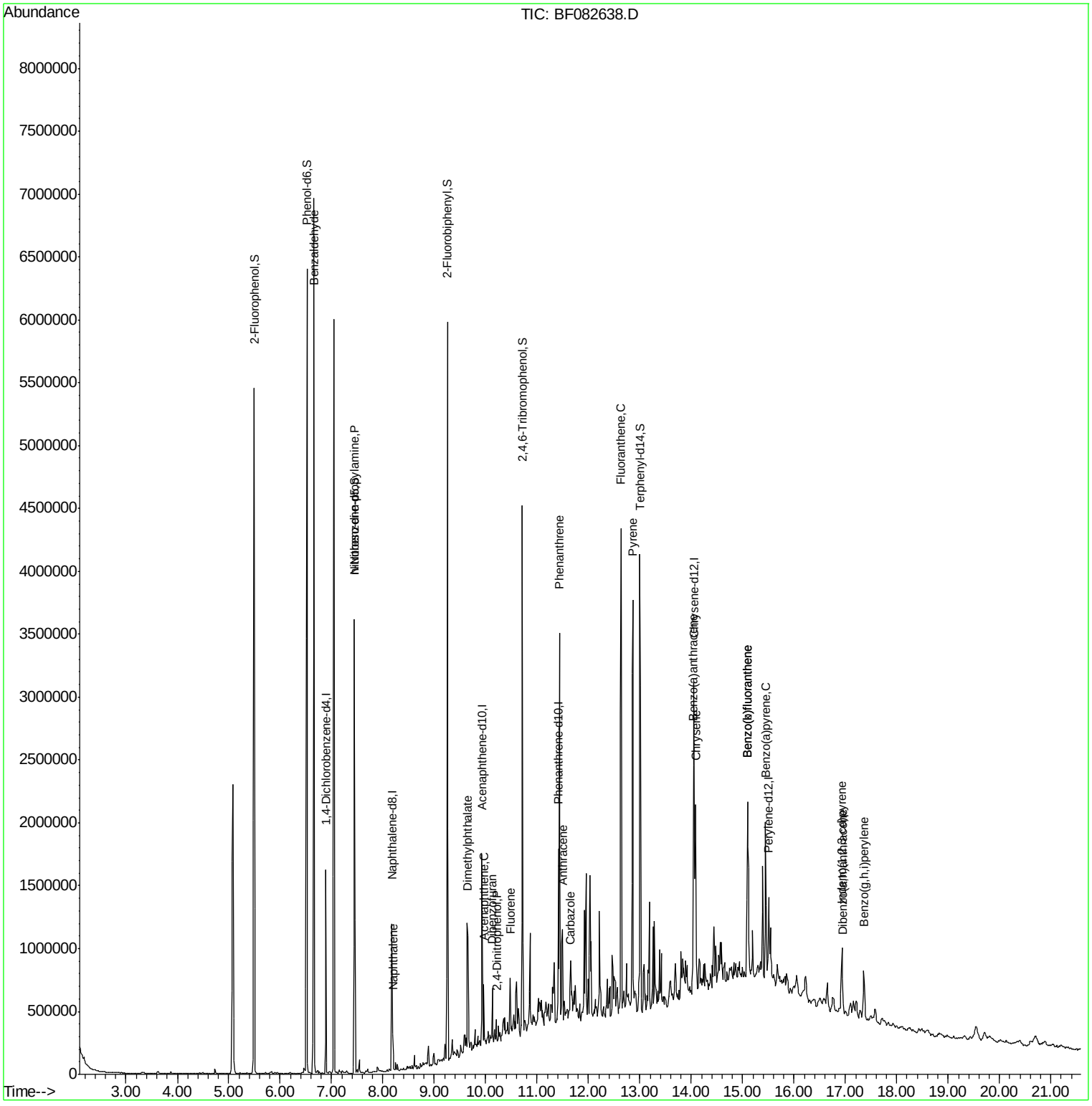
(#) = qualifier out of range (m) = manual integration (+) = signals summed

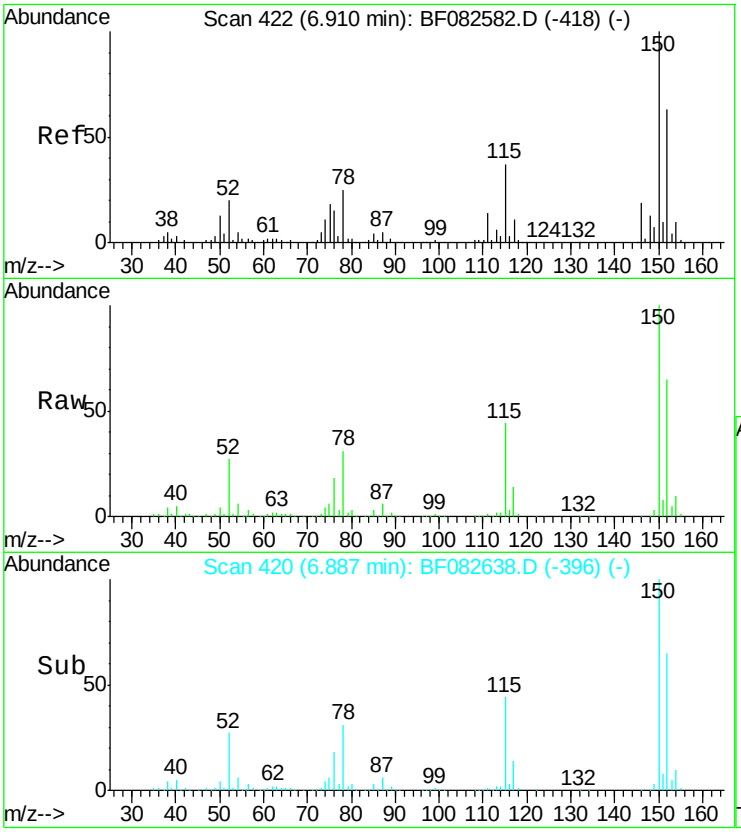
Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110215\
Data File : BF082638.D
Acq On : 2 Nov 2015 18:37
Operator : UM/IZ
Sample : G4234-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DS-1

Quant Time: Nov 03 02:29:29 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF103015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Oct 31 00:17:39 2015
Response via : Initial Calibration



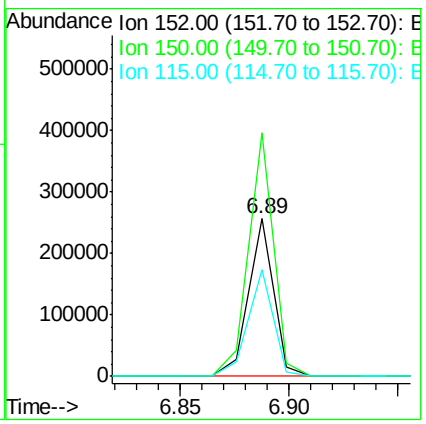


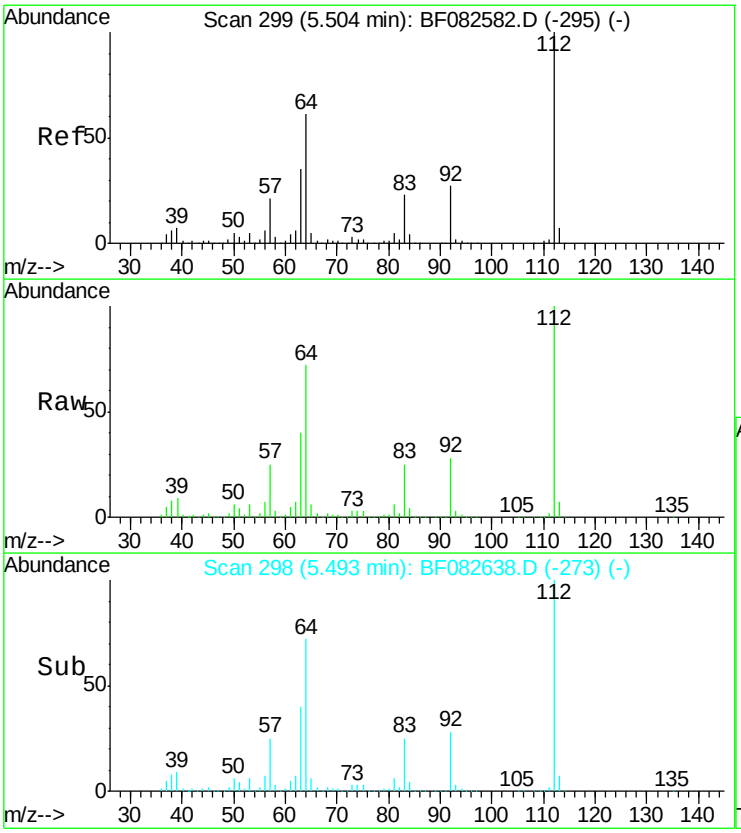

#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.89 min Scan# 420
Delta R.T. -0.02 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

**Instrument :**
BNA_F
**ClientSampleId :**
DS-1

Tgt Ion:152 Resp: 204467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.5 | 127.0 | 190.4 |
| 115 | 67.8 | 47.0 | 70.6 |

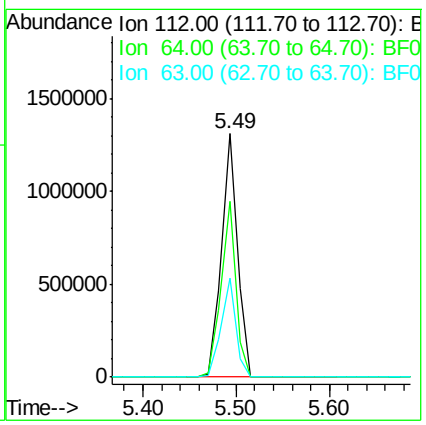


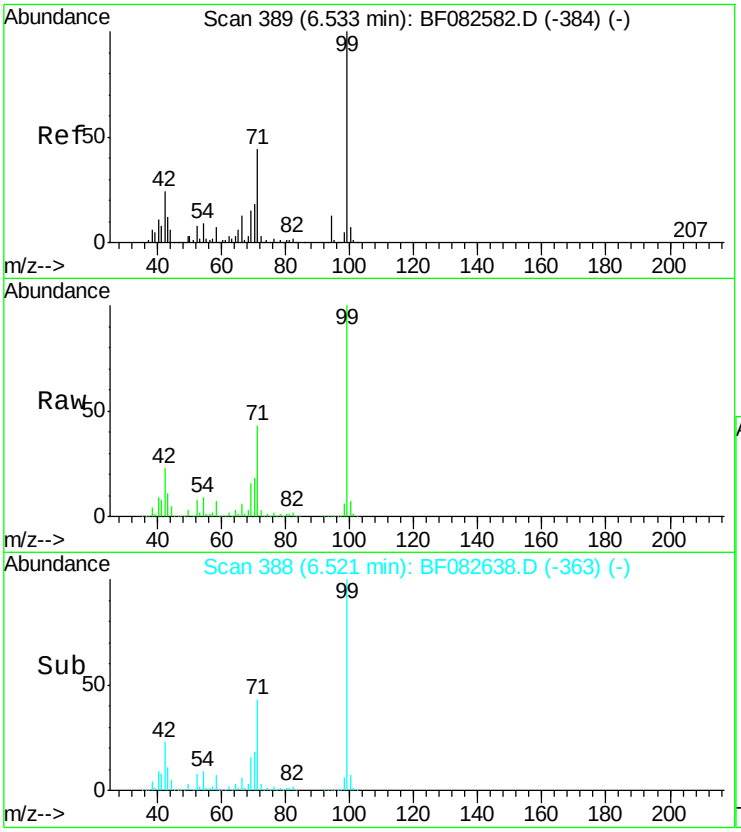




#5
2-Fluorophenol
Concen: 114.97 ng
RT: 5.49 min Scan# 298
Delta R.T. -0.01 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Tgt Ion:112 Resp: 1560740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 72.4 | 48.9 | 73.3 |
| 63 | 40.4 | 28.1 | 42.1 |



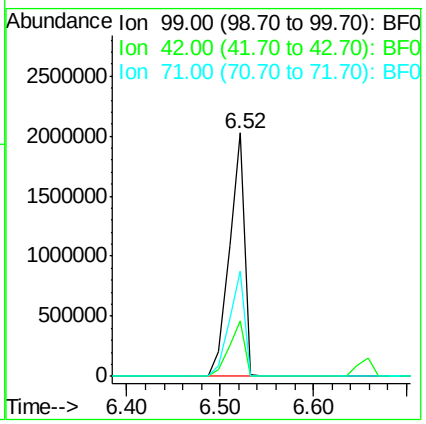


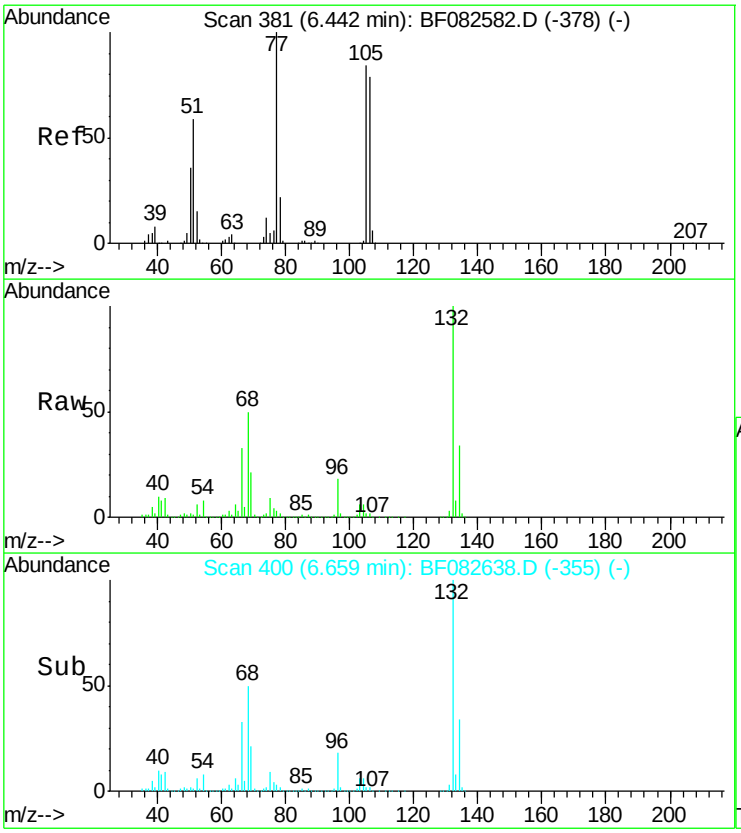

#7
Phenol-d6
Concen: 127.47 ng
RT: 6.52 min Scan# 388
Delta R.T. -0.01 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

**Instrument :**
BNA_F
**ClientSampleId :**
DS-1

Tgt Ion: 99 Resp: 2299024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 22.9 | 19.2 | 28.8 |
| 71 | 43.2 | 35.0 | 52.4 |

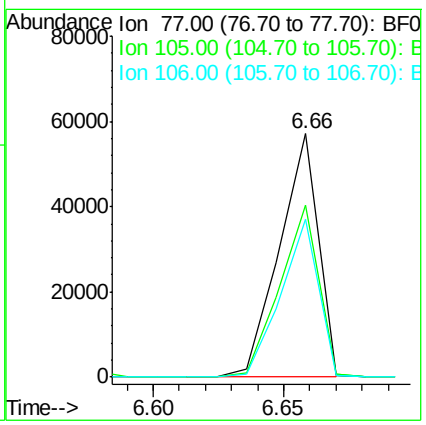


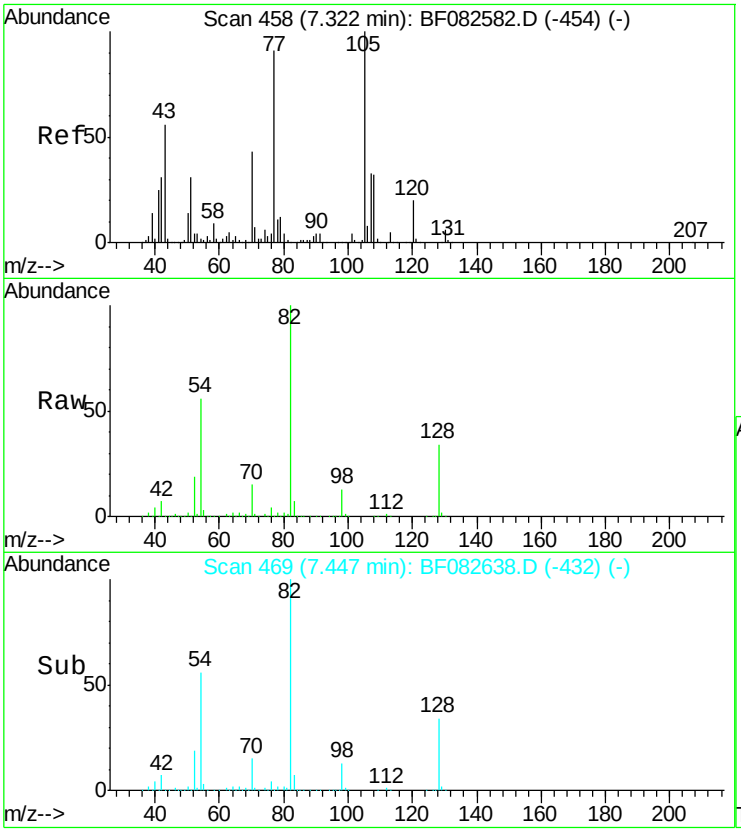




#9
Benzaldehyde
Concen: 4.80 ng
RT: 6.66 min Scan# 400
Delta R.T. 0.22 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Tgt Ion: 77 Resp: 59046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 70.4 | 63.5 | 103.5 |
| 106 | 64.8 | 59.3 | 99.3 |



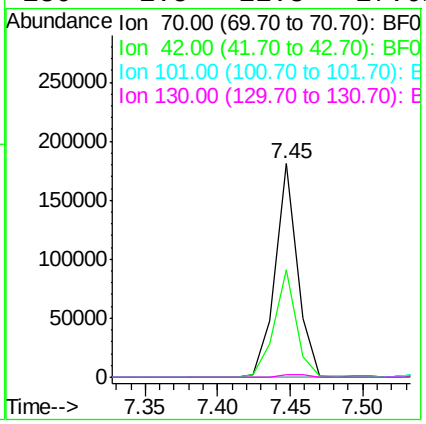


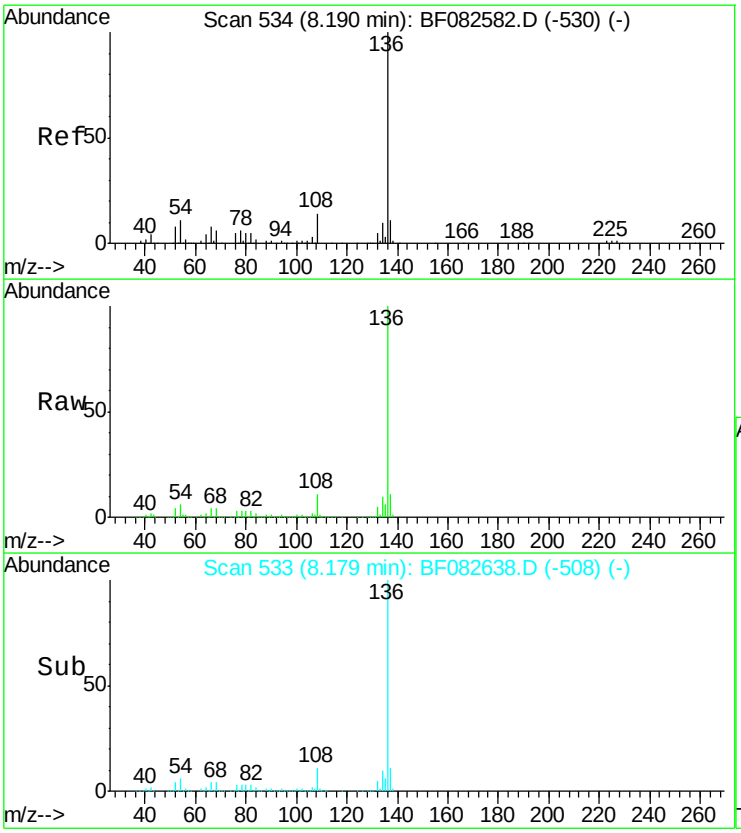

#19
n-Nitroso-di-n-propylamine
Concen: 14.20 ng
RT: 7.45 min Scan# 469
Delta R.T. 0.13 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

**Instrument :**
BNA_F
**ClientSampleId :**
DS-1

Tgt Ion: 70 Resp: 194142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 50.6 | 57.7 | 86.5# |
| 101 | 0.0 | 7.0 | 10.6# |
| 130 | 1.5 | 11.8 | 17.6# |

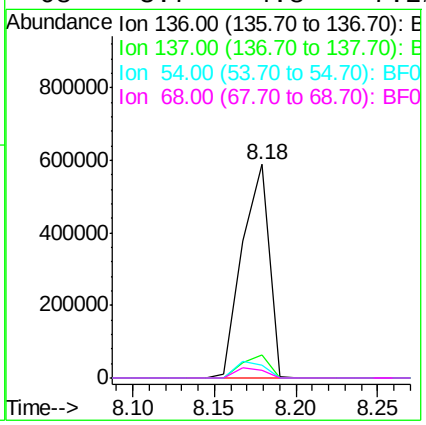


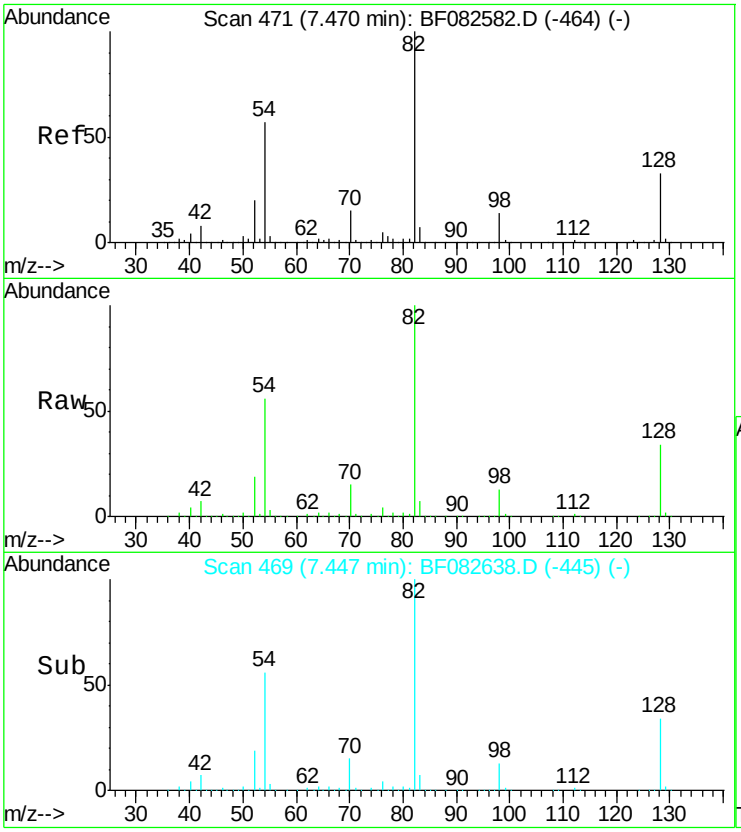




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.18 min Scan# 533
Delta R.T. -0.01 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Tgt Ion:136 Resp: 671422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.6 | 9.1 | 13.7 |
| 54 | 6.0 | 9.1 | 13.7# |
| 68 | 3.7 | 4.8 | 7.2# |



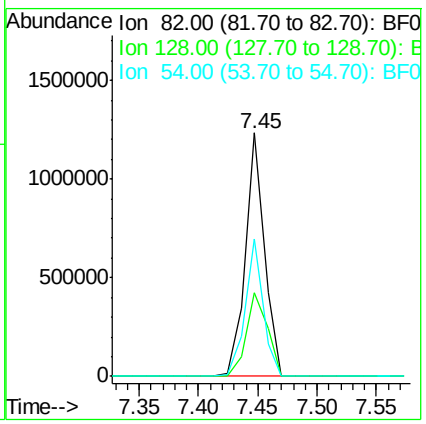


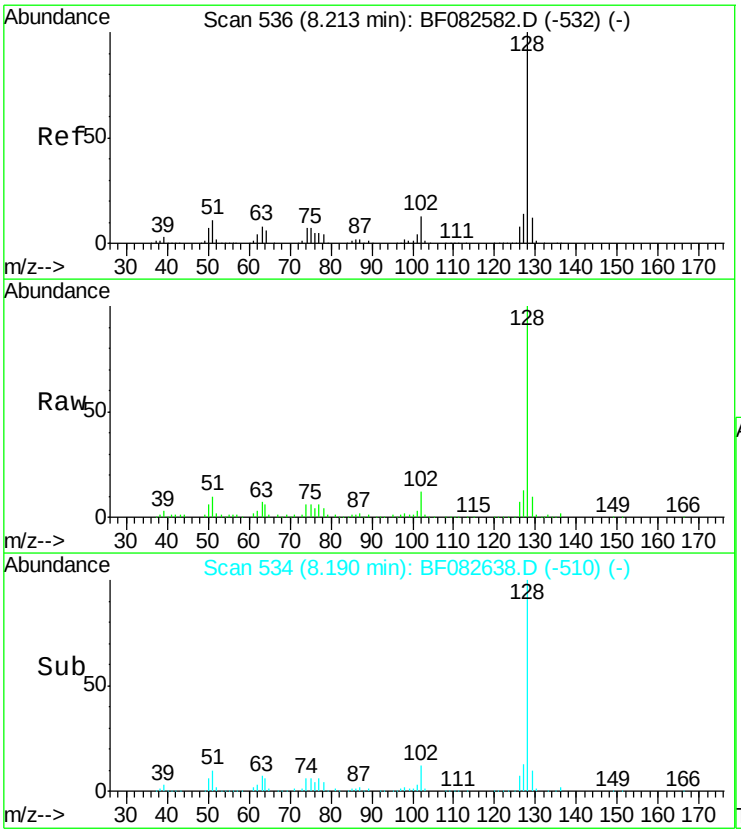

#23
Nitrobenzene-d5
Concen: 84.21 ng
RT: 7.45 min Scan# 469
Delta R.T. -0.02 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

**Instrument :**
BNA_F
**ClientSampleId :**
DS-1

Tgt Ion: 82 Resp: 1384606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 34.1 | 26.8 | 40.2 |
| 54 | 56.4 | 45.7 | 68.5 |

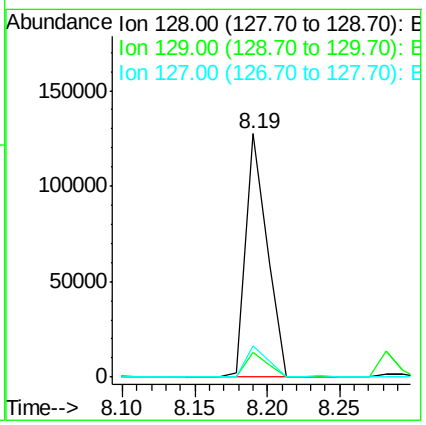


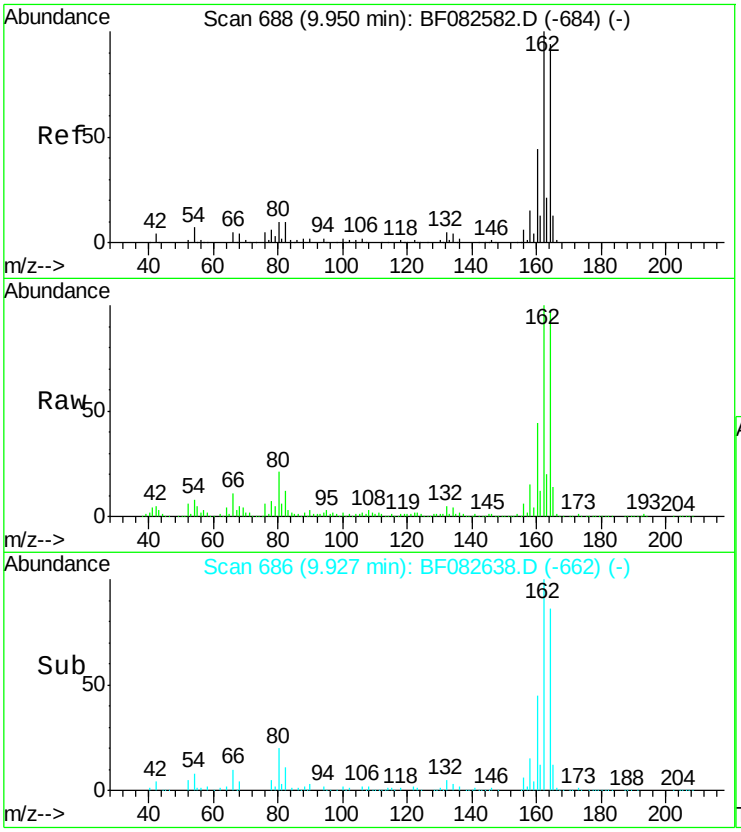




#31
Naphthalene
Concen: 3.60 ng
RT: 8.19 min Scan# 534
Delta R.T. -0.02 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Tgt Ion:128 Resp: 130846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.3 | 9.5 | 14.3 |
| 127 | 13.0 | 11.4 | 17.0 |



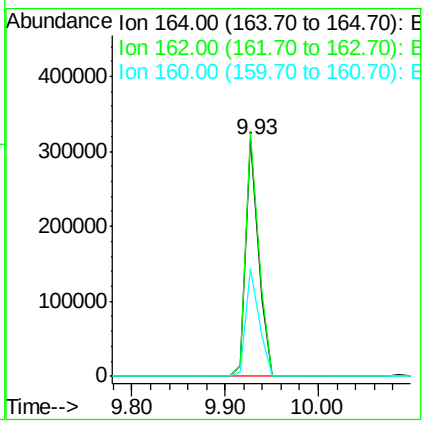


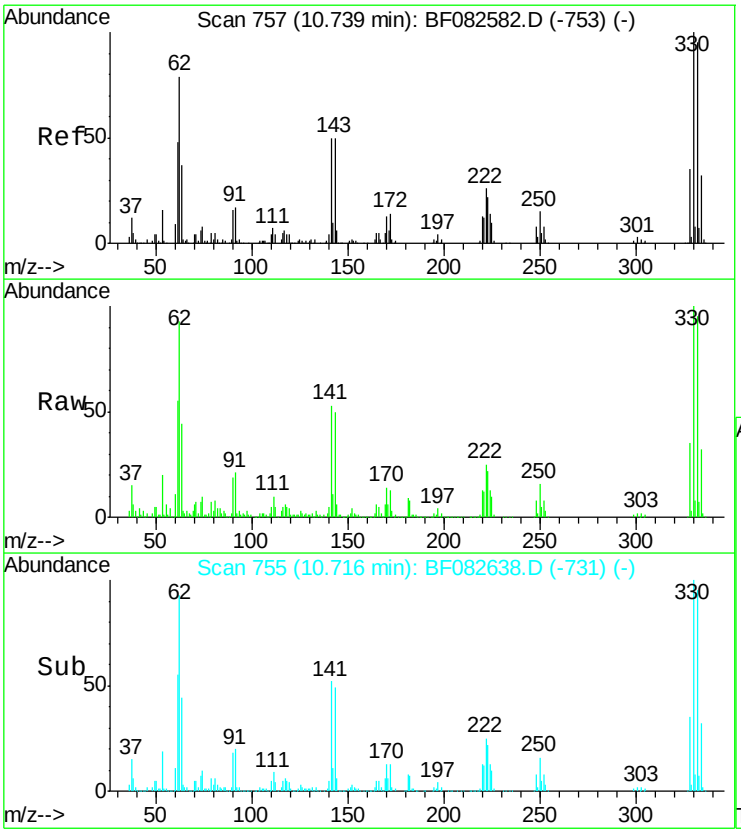

#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.93 min Scan# 686
Delta R.T. -0.02 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

**Instrument :**
BNA_F
**ClientSampleId :**
DS-1

Tgt Ion:164 Resp: 300430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.9 | 84.9 | 127.3 |
| 160 | 45.7 | 37.5 | 56.3 |

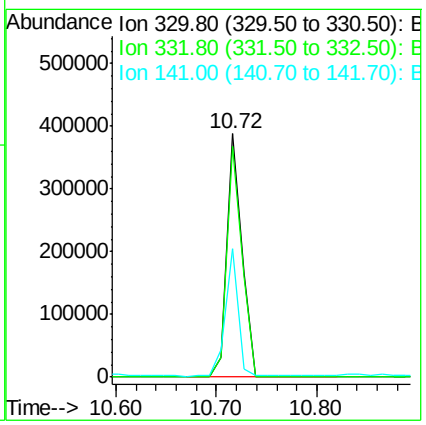


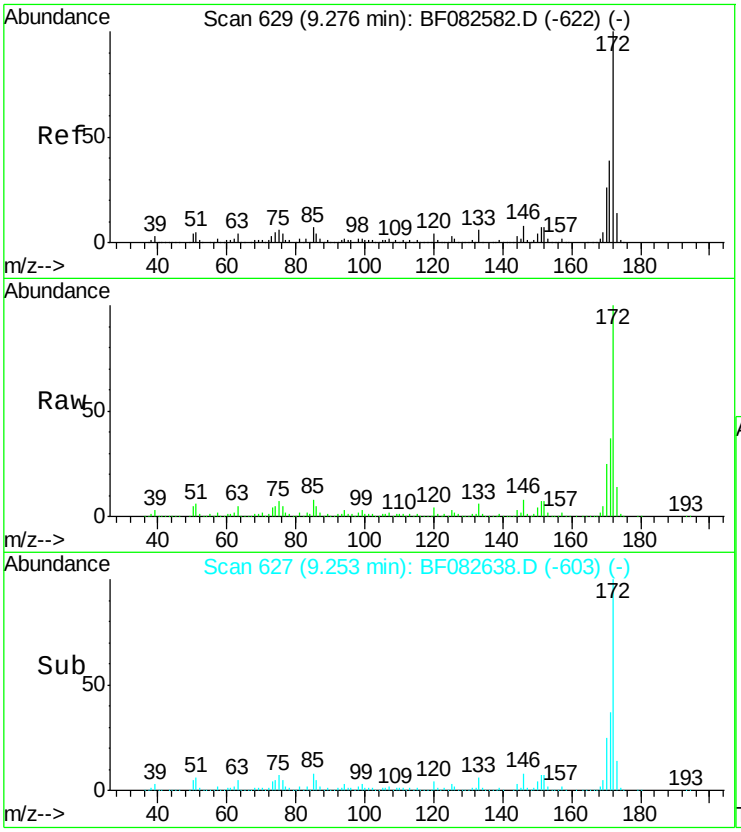




#41
2,4,6-Tribromophenol
Concen: 123.39 ng
RT: 10.72 min Scan# 755
Delta R.T. -0.02 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Tgt Ion:330 Resp: 405704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.6 | 76.6 | 114.8 |
| 141 | 45.0 | 41.2 | 61.8 |



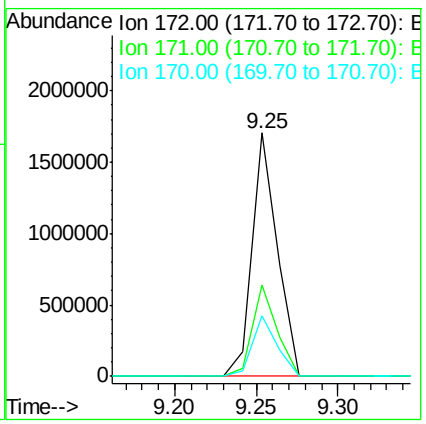


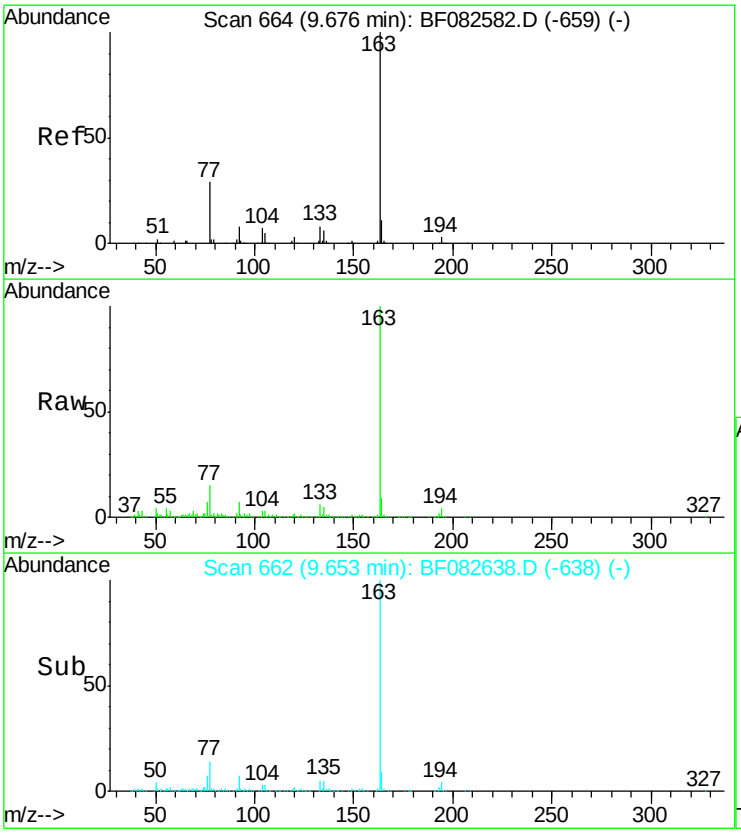

#44
2-Fluorobiphenyl
Concen: 86.20 ng
RT: 9.25 min Scan# 627
Delta R.T. -0.02 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

**Instrument :**
BNA_F
**ClientSampleId :**
DS-1

Tgt Ion:172 Resp: 1823935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.2 | 30.8 | 46.2 |
| 170 | 25.0 | 21.2 | 31.8 |

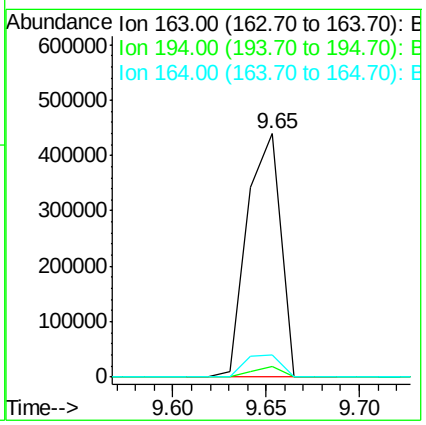


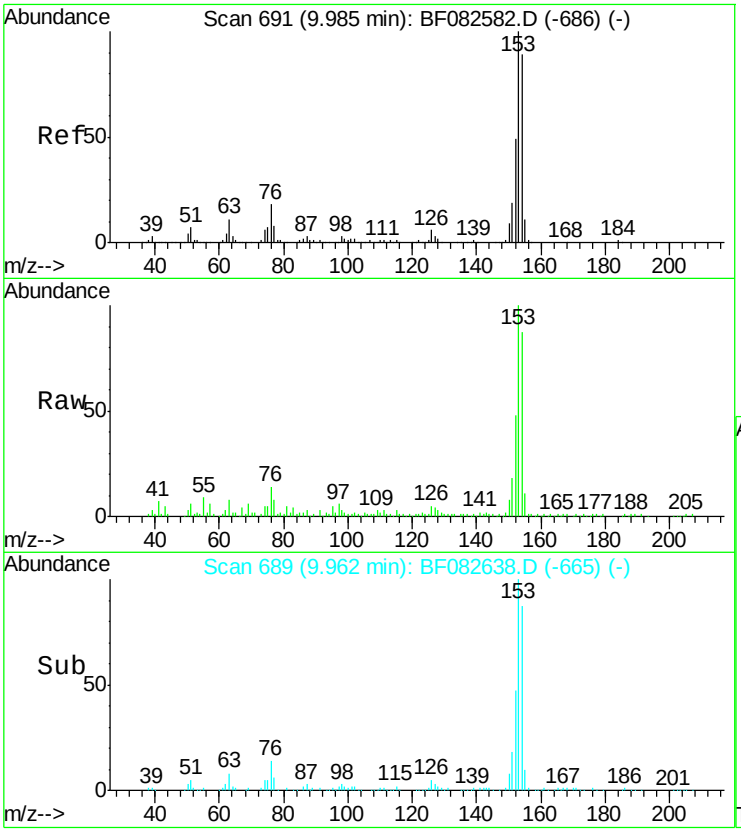




#49
Dimethylphthalate
Concen: 22.10 ng
RT: 9.65 min Scan# 662
Delta R.T. -0.02 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Tgt Ion:163 Resp: 542213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 4.4 | 2.6 | 4.0# |
| 164 | 9.4 | 8.7 | 13.1 |



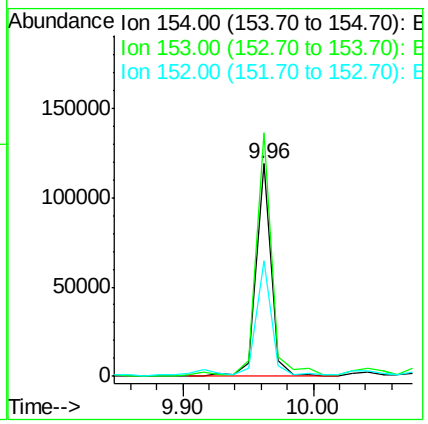


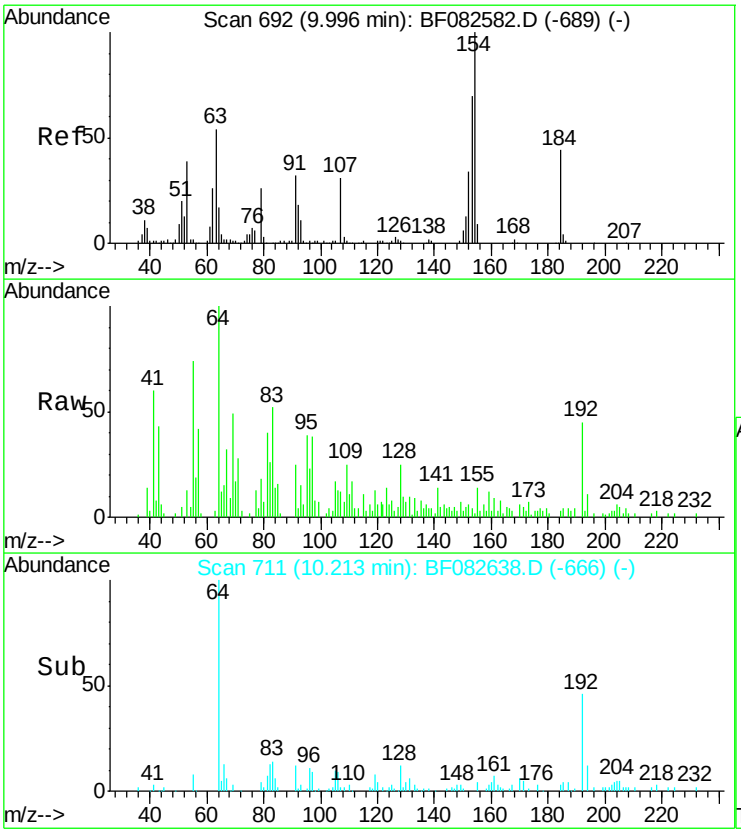

#51
Acenaphthene
Concen: 4.81 ng
RT: 9.96 min Scan# 689
Delta R.T. -0.02 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

**Instrument :**
BNA_F
**ClientSampleId :**
DS-1

Tgt Ion:154 Resp: 96685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.6 | 90.1 | 135.1 |
| 152 | 54.6 | 44.3 | 66.5 |

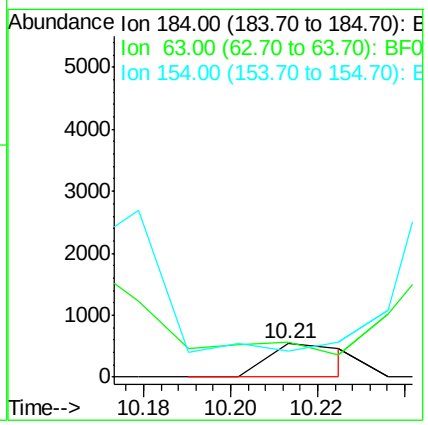


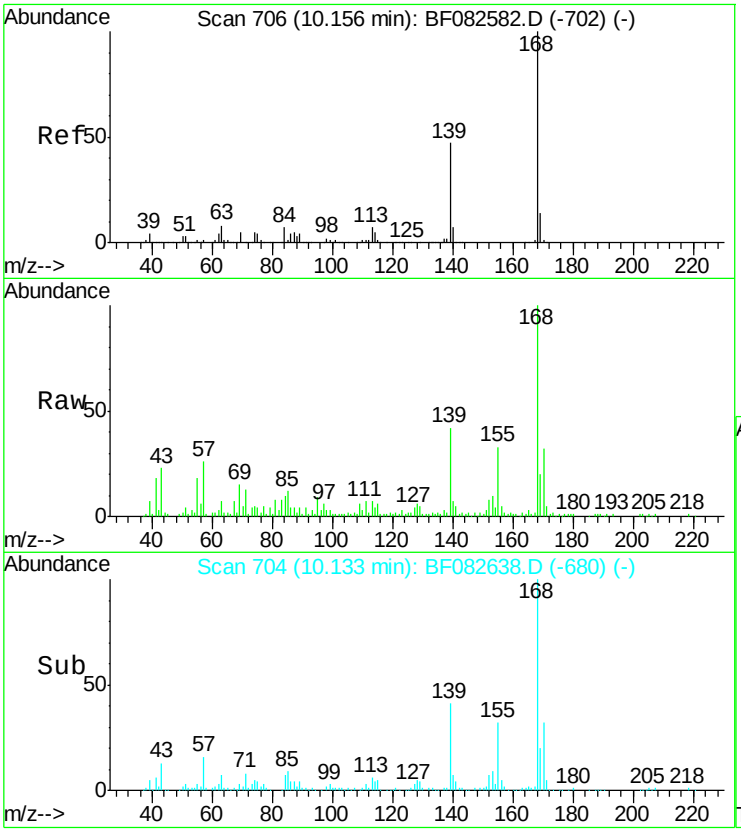




#53
2,4-Dinitrophenol
Concen: 6.92 ng
RT: 10.21 min Scan# 711
Delta R.T. 0.22 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Tgt Ion:184 Resp: 690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 105.4 | 98.6 | 148.0 |
| 154 | 79.4 | 183.9 | 275.9# |



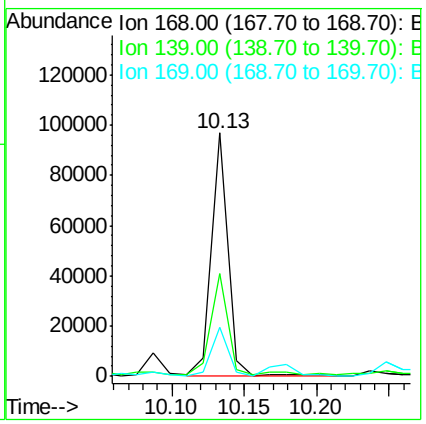


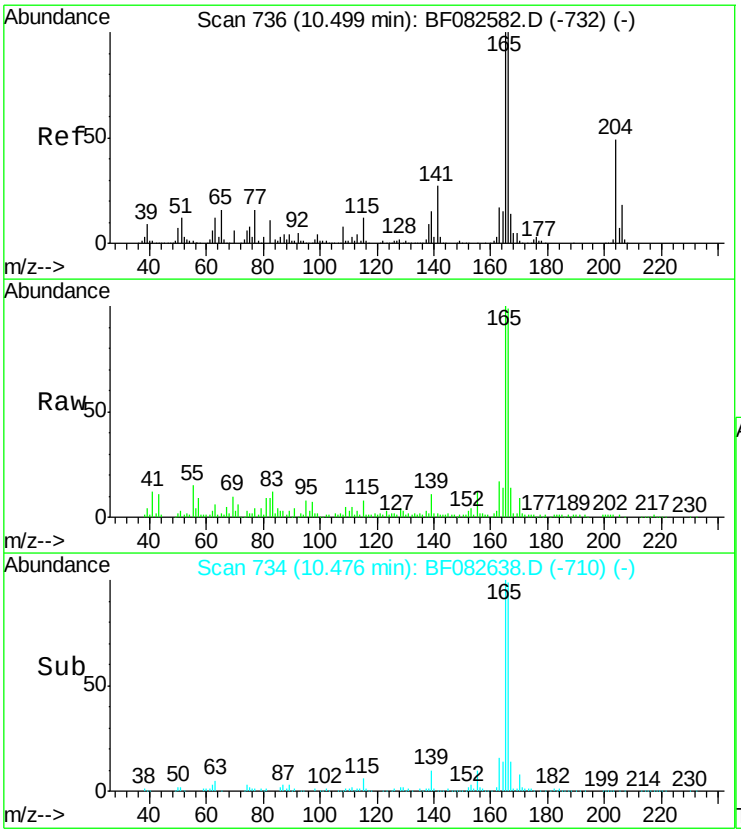

#54
Dibenzofuran
Concen: 2.84 ng
RT: 10.13 min Scan# 704
Delta R.T. -0.02 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

**Instrument :**
BNA_F
**ClientSampleId :**
DS-1

Tgt Ion:168 Resp: 77405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 42.0 | 37.8 | 56.6 |
| 169 | 20.0 | 11.3 | 16.9# |

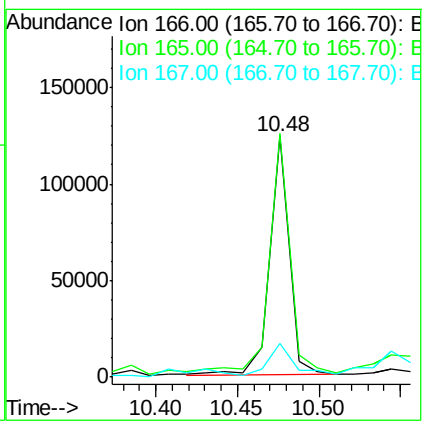


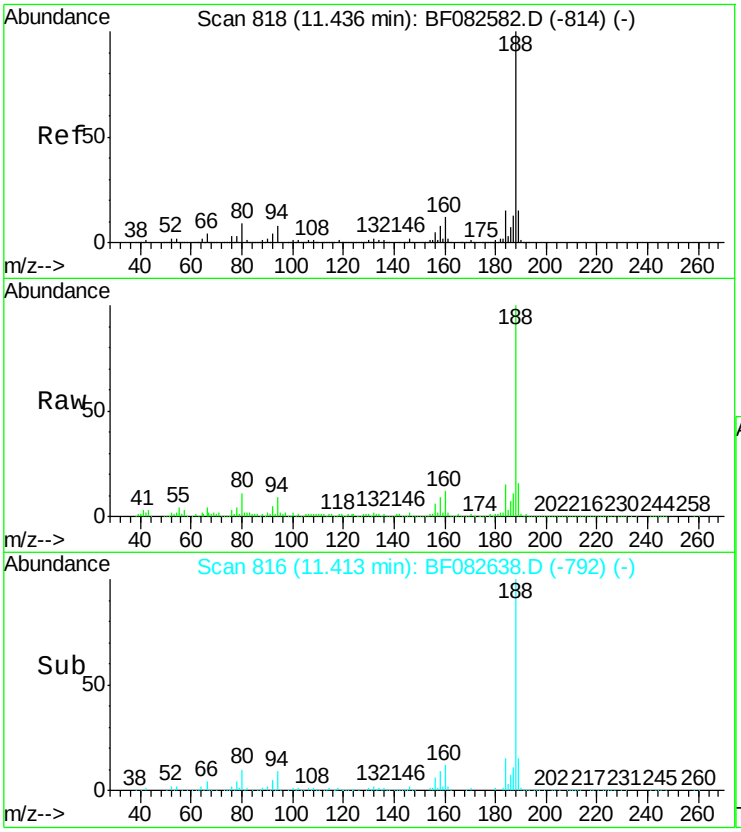




#57
Fluorene
Concen: 4.73 ng
RT: 10.48 min Scan# 734
Delta R.T. -0.02 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Tgt Ion:166 Resp: 104147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 101.1 | 80.2 | 120.4 |
| 167 | 14.1 | 11.2 | 16.8 |



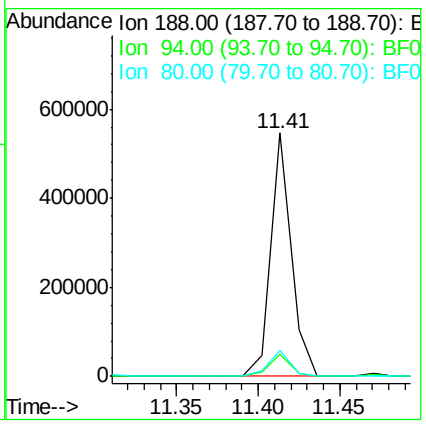


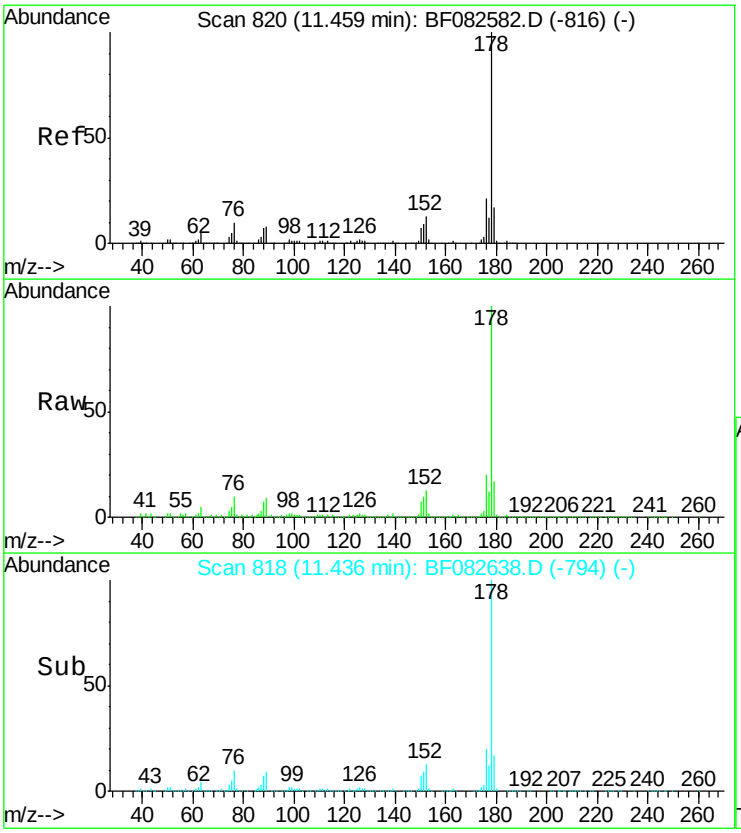

#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.41 min Scan# 816
Delta R.T. -0.02 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

**Instrument :**
BNA_F
**ClientSampleId :**
DS-1

Tgt Ion:188 Resp: 479065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.9 | 6.1 | 9.1 |
| 80 | 10.7 | 7.0 | 10.6# |

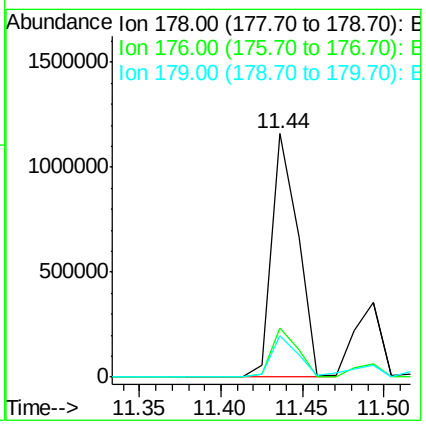


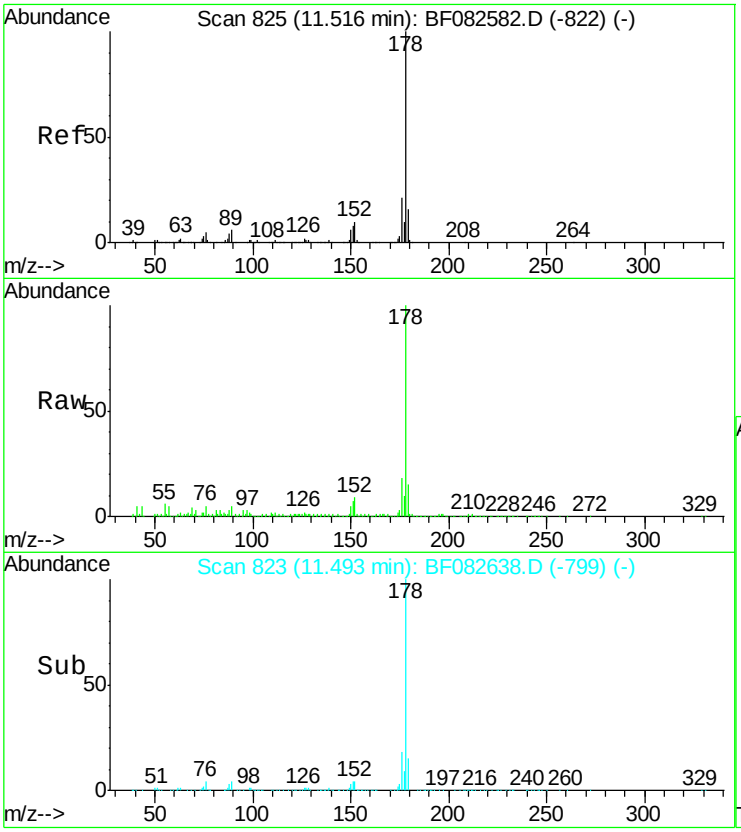




#70
Phenanthrene
Concen: 48.31 ng
RT: 11.44 min Scan# 818
Delta R.T. -0.02 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Tgt Ion:178 Resp: 1305285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.1 | 17.0 | 25.4 |
| 179 | 16.8 | 13.4 | 20.0 |



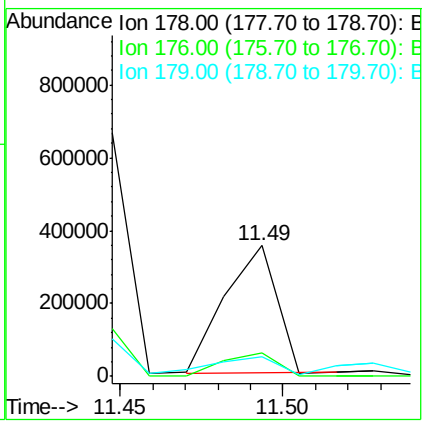


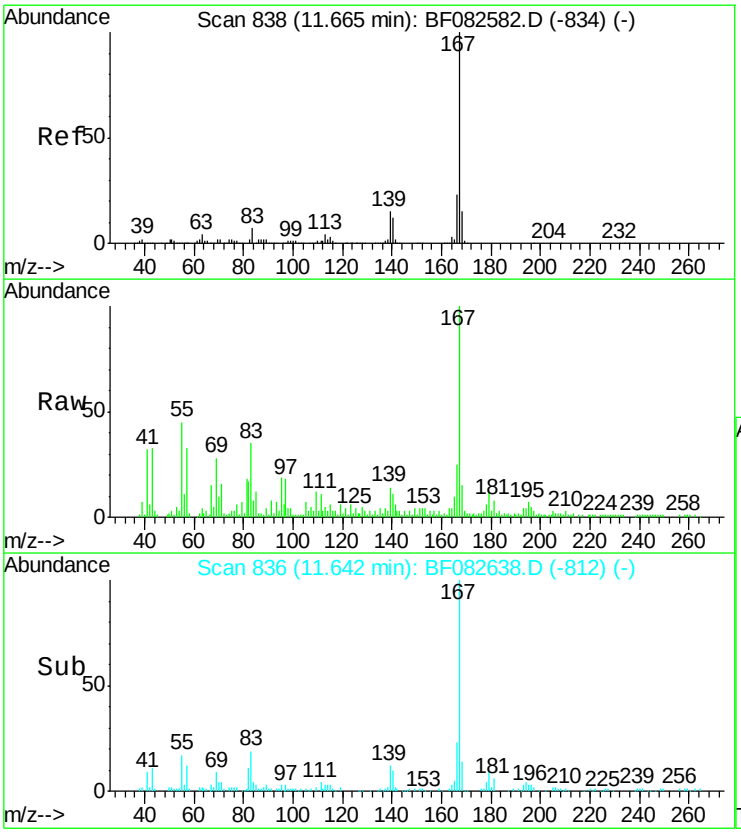

#71
Anthracene
Concen:  14.06 ng
RT: 11.49 min  Scan# 823
Delta R.T.  -0.02 min
Lab File:  BF082638.D
Acq:  2 Nov 2015  18:37

**Instrument :**
BNA_F
**ClientSampleId :**
DS-1

Tgt Ion:178 Resp:  382529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.0 | 16.5 | 24.7 |
| 179 | 15.3 | 13.2 | 19.8 |

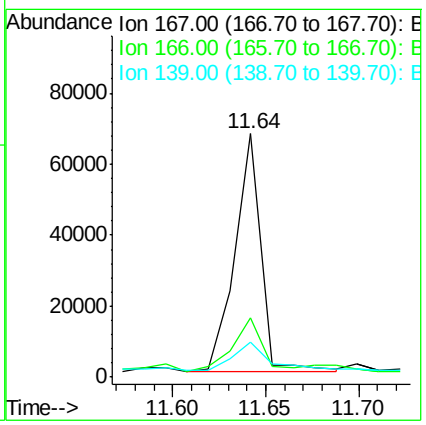


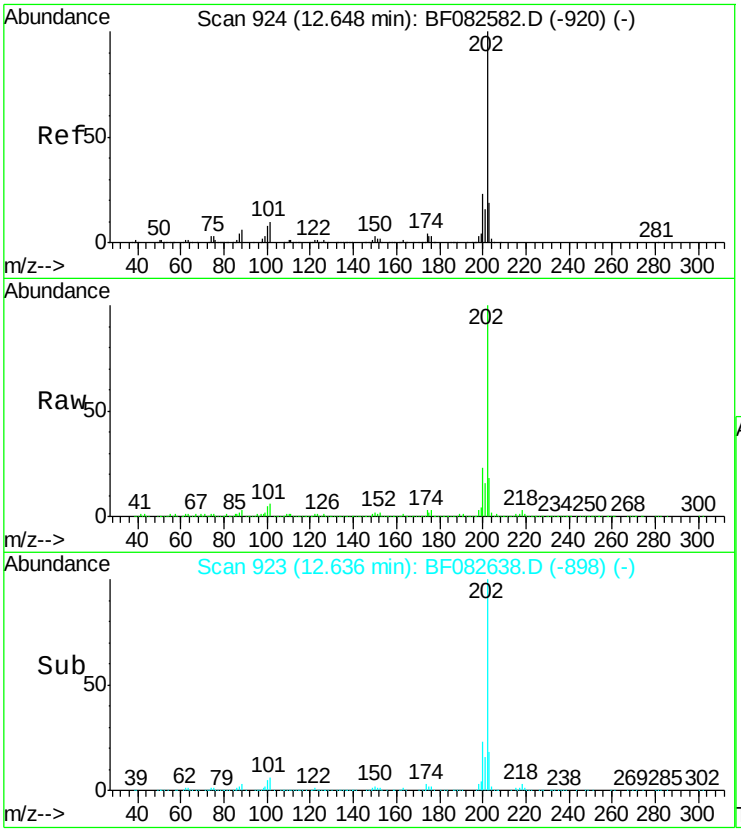




#72
Carbazole
Concen:  2.80 ng
RT: 11.64 min  Scan# 836
Delta R.T.  -0.02 min
Lab File:  BF082638.D
Acq:  2 Nov 2015  18:37

Tgt Ion:167 Resp:  66471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 24.6 | 18.7 | 28.1 |
| 139 | 14.3 | 11.8 | 17.6 |



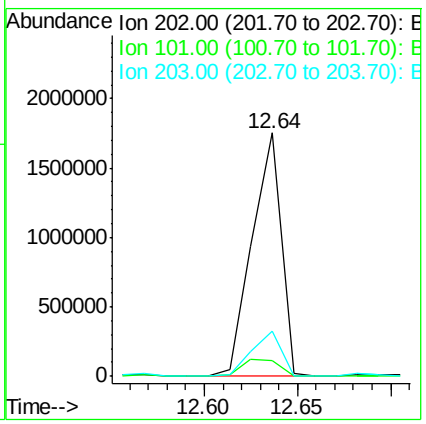


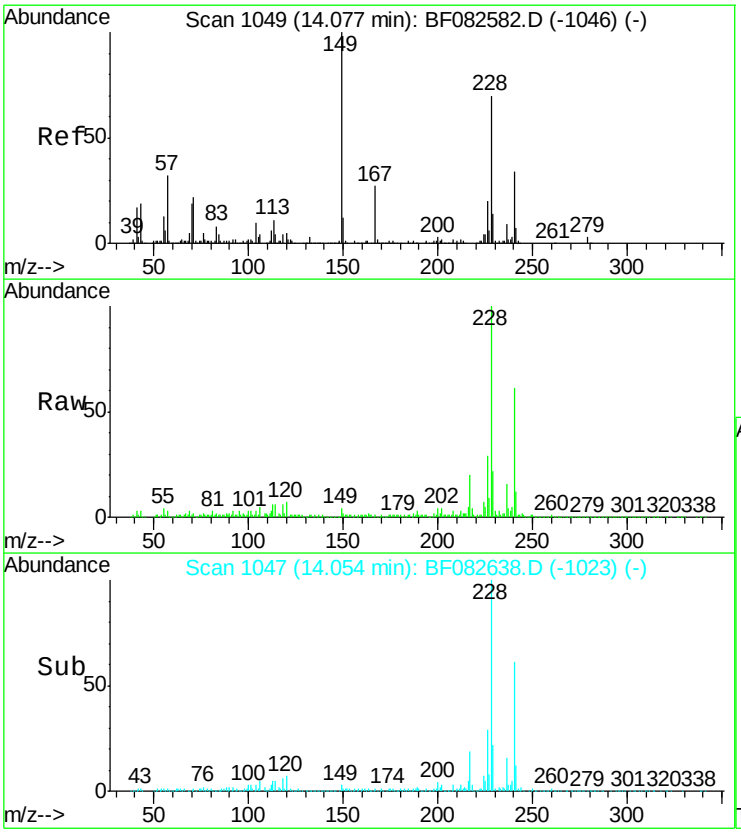

#74
Fluoranthene
Concen: 68.00 ng
RT: 12.64 min Scan# 923
Delta R.T. -0.01 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

**Instrument :**
BNA_F
**ClientSampleId :**
DS-1

Tgt Ion:202 Resp: 1878424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 6.3 | 0.0 | 30.5 |
| 203 | 18.4 | 0.0 | 38.5 |

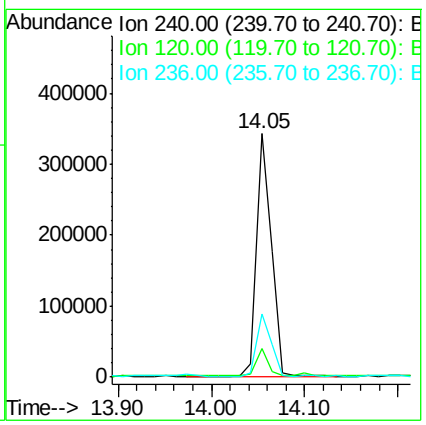


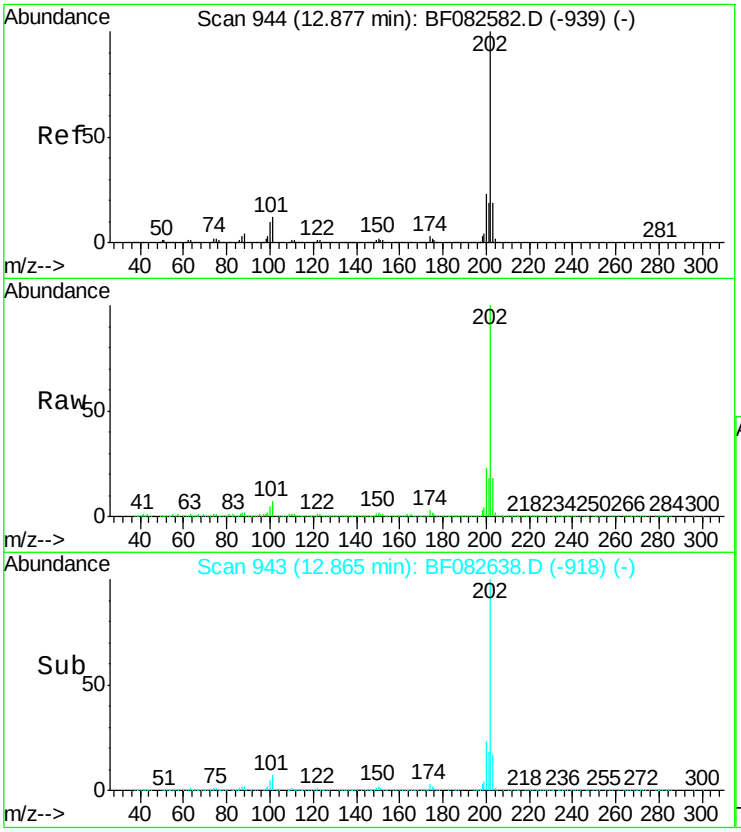




#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.05 min Scan# 1047
Delta R.T. -0.02 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Tgt Ion:240 Resp: 376990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.8 | 10.9 | 16.3 |
| 236 | 26.2 | 21.6 | 32.4 |



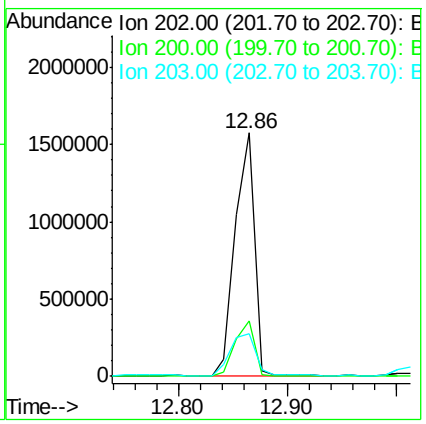


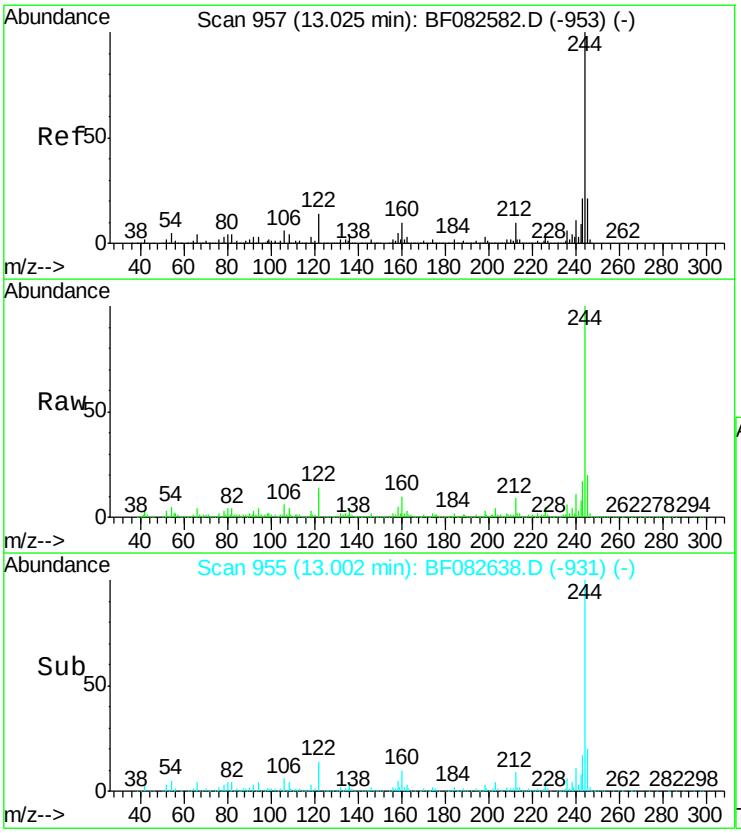

#77
Pyrene
Concen: 68.05 ng
RT: 12.86 min Scan# 943
Delta R.T. -0.01 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

**Instrument :**
BNA_F
**ClientSampleId :**
DS-1

Tgt Ion:202 Resp: 1899543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.8 | 18.7 | 28.1 |
| 203 | 17.7 | 14.8 | 22.2 |

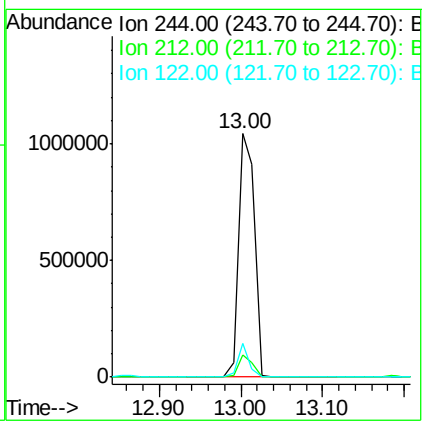


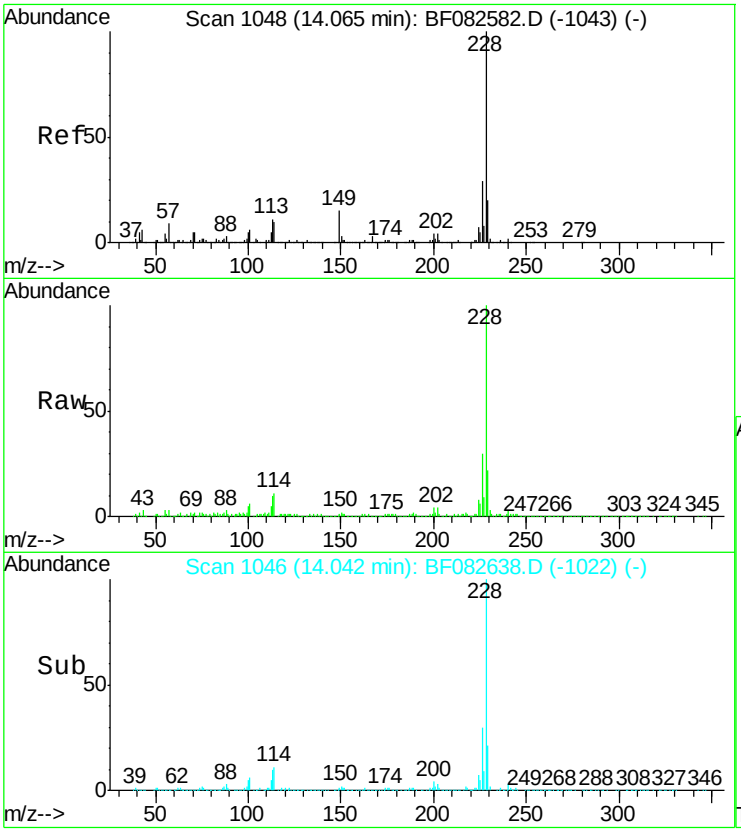




#78
Terphenyl-d14
Concen: 80.89 ng
RT: 13.00 min Scan# 955
Delta R.T. -0.02 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Tgt Ion:244 Resp: 1393356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.0 | 7.6 | 11.4 |
| 122 | 14.0 | 11.3 | 16.9 |



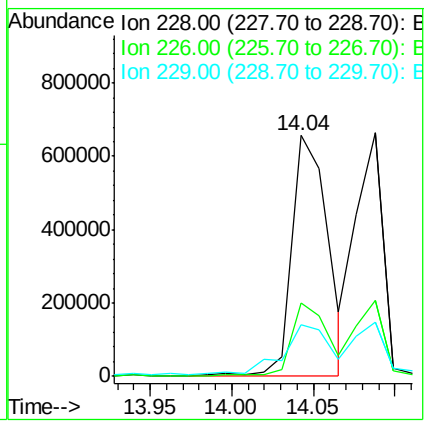


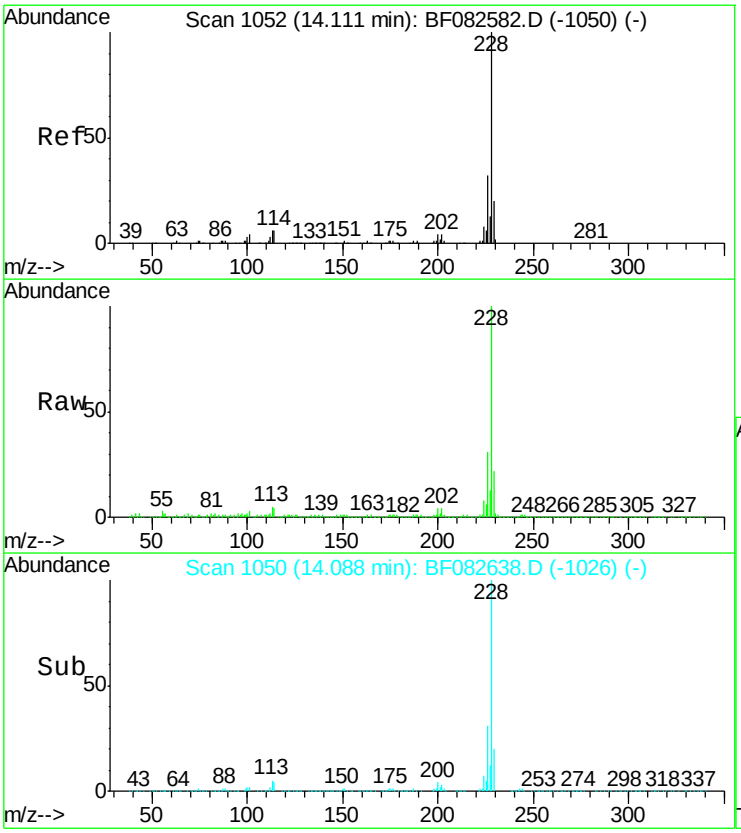

#80
Benzo(a)anthracene
Concen:  41.84 ng
RT: 14.04 min  Scan# 1046
Delta R.T.  -0.02 min
Lab File:  BF082638.D
Acq:  2 Nov 2015  18:37

**Instrument :**
BNA_F
**ClientSampleId :**
DS-1

Tgt Ion:228 Resp: 1002065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.4 | 23.4 | 35.2 |
| 229 | 21.7 | 16.3 | 24.5 |

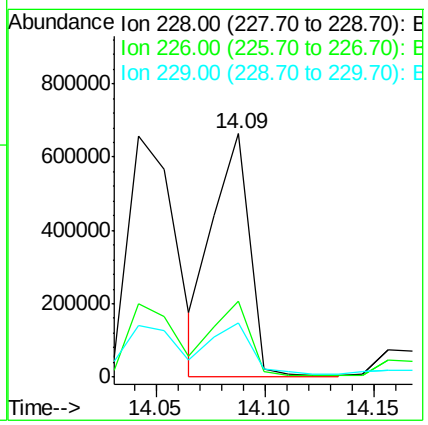


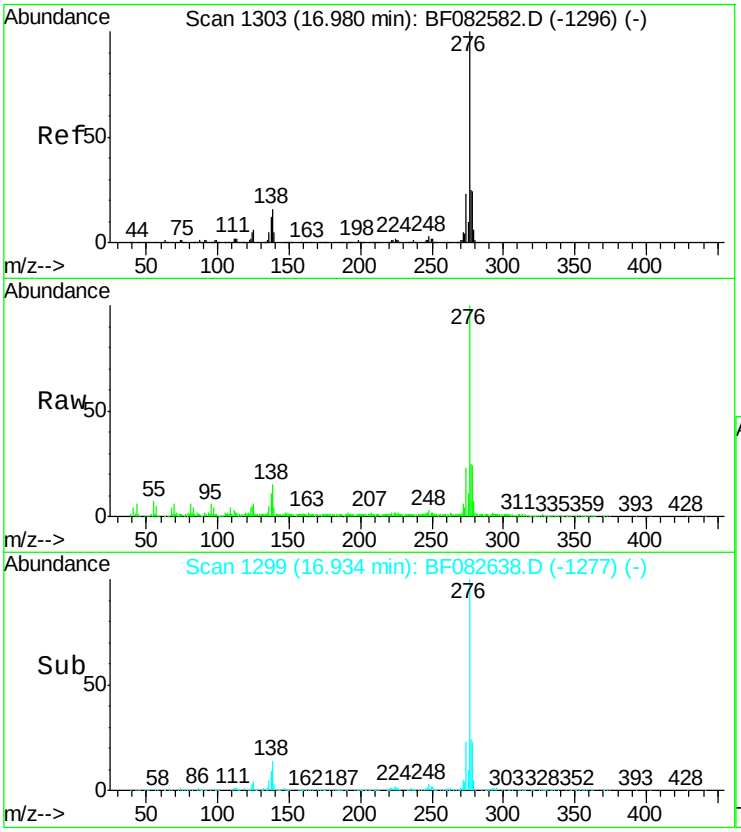




#82
Chrysene
Concen:  35.89 ng
RT: 14.09 min  Scan# 1050
Delta R.T.  -0.02 min
Lab File:  BF082638.D
Acq:  2 Nov 2015  18:37

Tgt Ion:228 Resp:  779049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.2 | 25.5 | 38.3 |
| 229 | 22.1 | 16.3 | 24.5 |



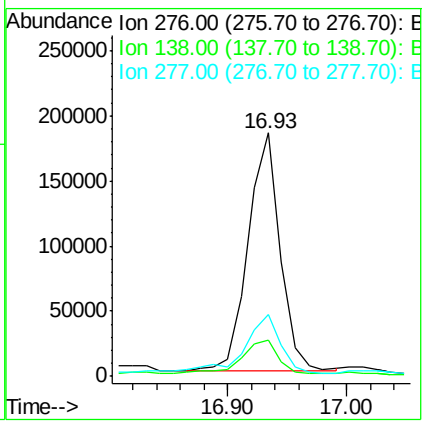


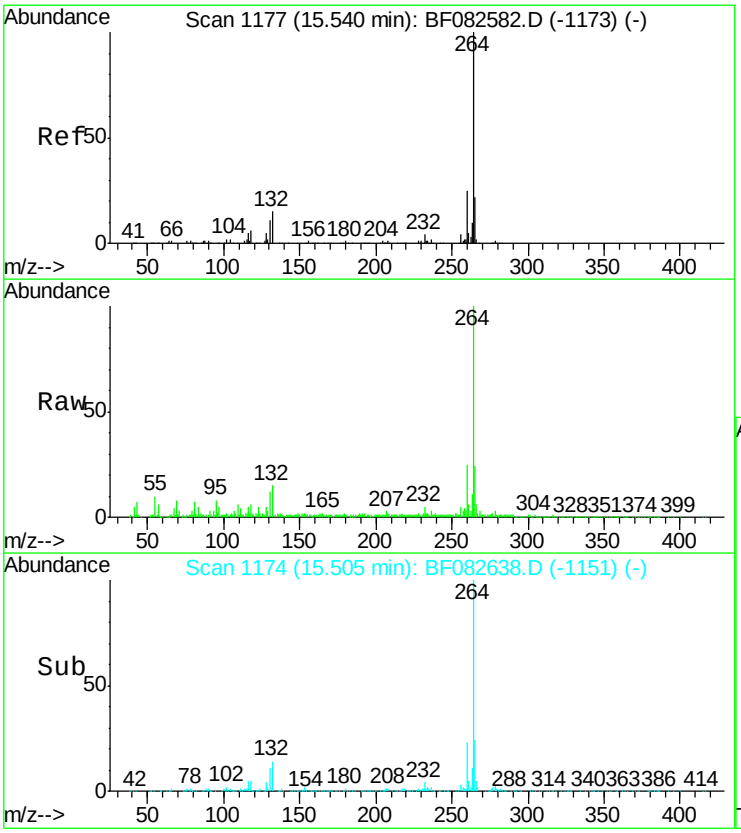

#85
Indeno(1,2,3-cd)pyrene
Concen: 19.37 ng
RT: 16.93 min Scan# 1299
Delta R.T. -0.05 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

**Instrument :**
BNA_F
**ClientSampleId :**
DS-1

Tgt Ion:276 Resp: 346959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 16.1 | 15.3 | 22.9 |
| 277 | 30.0 | 20.2 | 30.4 |

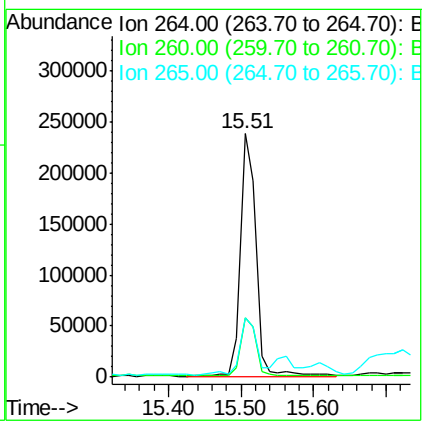


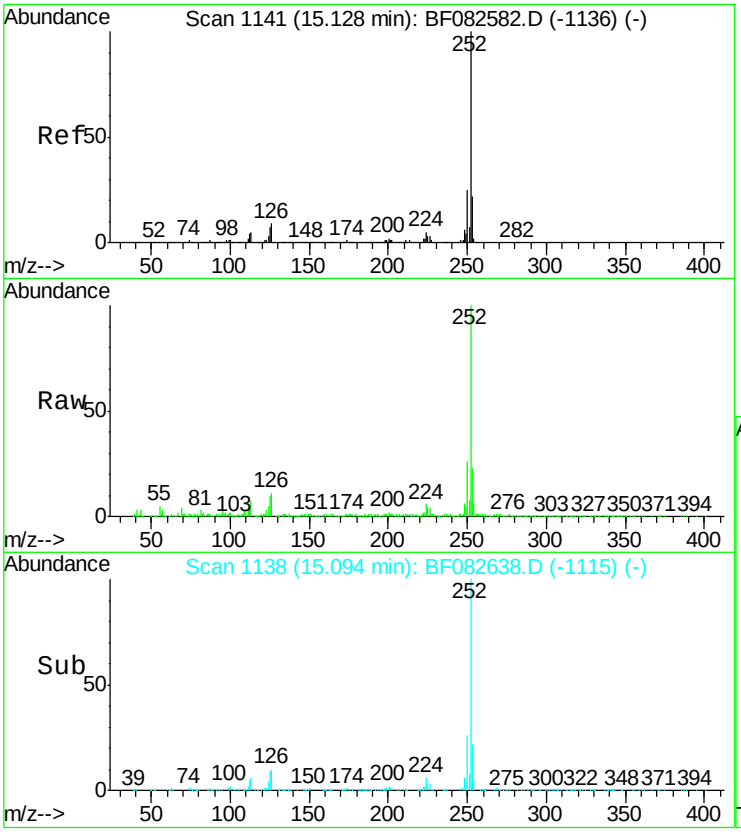




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.51 min Scan# 1174
Delta R.T. -0.03 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Tgt Ion:264 Resp: 357005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.5 | 19.8 | 29.6 |
| 265 | 24.4 | 17.4 | 26.0 |



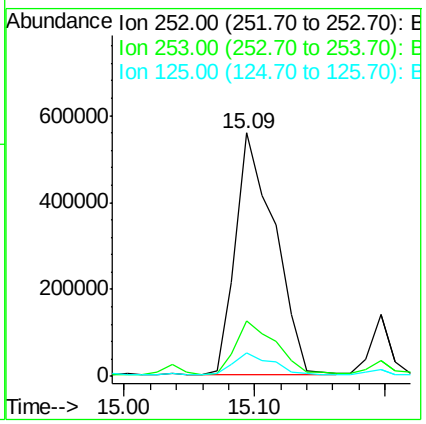


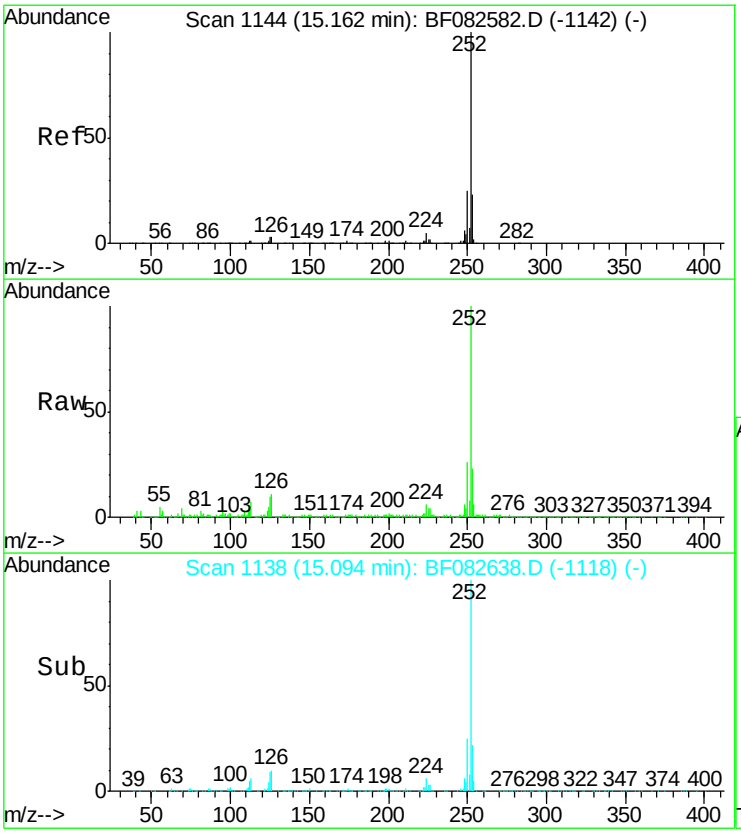

#87
Benzo(b)fluoranthene
Concen: 47.18 ng
RT: 15.09 min Scan# 1138
Delta R.T. -0.03 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

**Instrument :**
BNA_F
**ClientSampleId :**
DS-1

Tgt Ion:252 Resp: 1161417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.0 | 17.8 | 26.8 |
| 125 | 9.7 | 5.4 | 8.2# |

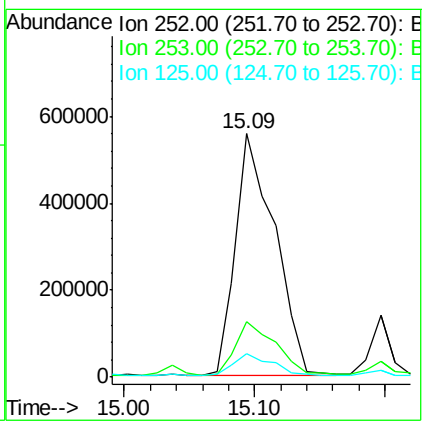


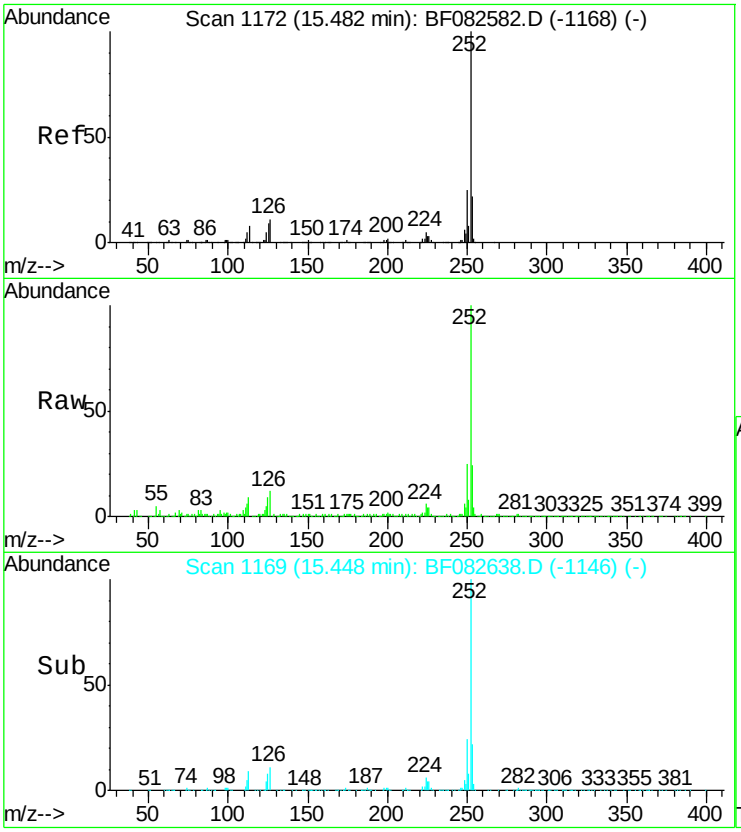




#88
Benzo(k)fluoranthene
Concen: 61.93 ng
RT: 15.09 min Scan# 1138
Delta R.T. -0.07 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Tgt Ion:252 Resp: 1161417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.0 | 17.9 | 26.9 |
| 125 | 9.7 | 3.5 | 5.3# |



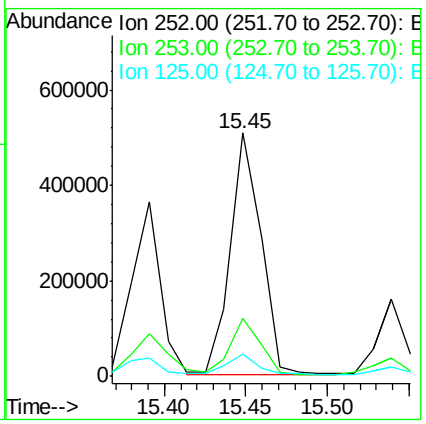


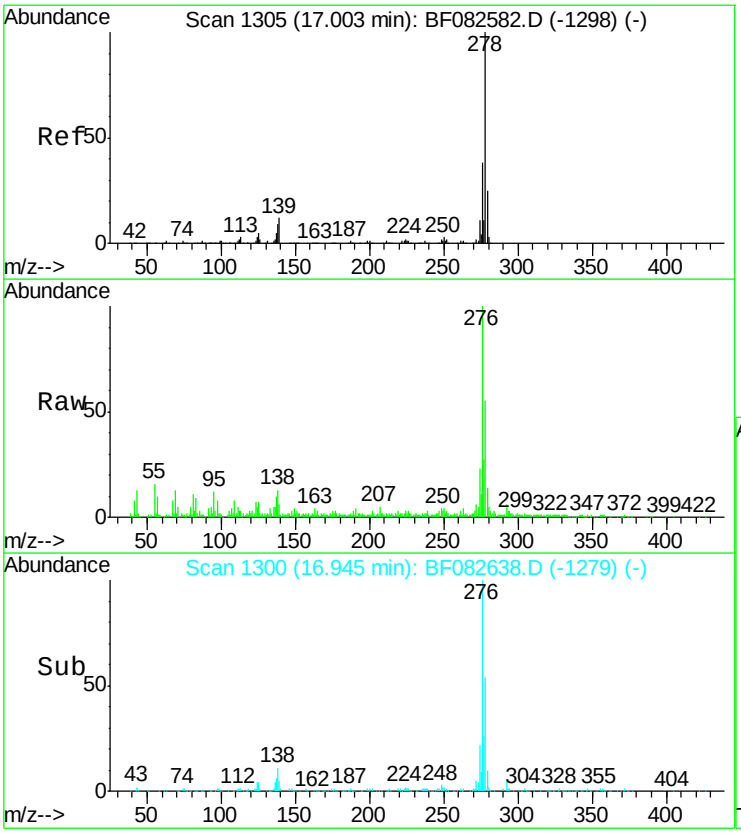

#89
Benzo(a)pyrene
Concen: 33.93 ng
RT: 15.45 min Scan# 1169
Delta R.T. -0.03 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

**Instrument :**
BNA_F
**ClientSampleId :**
DS-1

Tgt Ion:252 Resp: 657751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.7 | 17.3 | 25.9 |
| 125 | 9.4 | 7.1 | 10.7 |

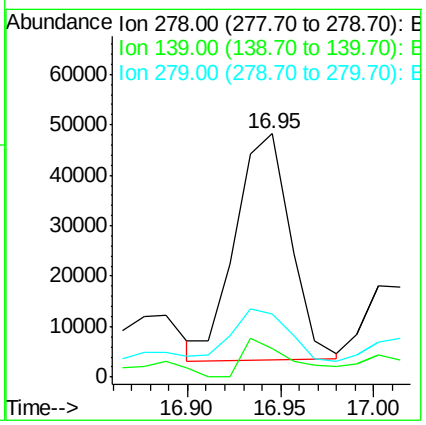


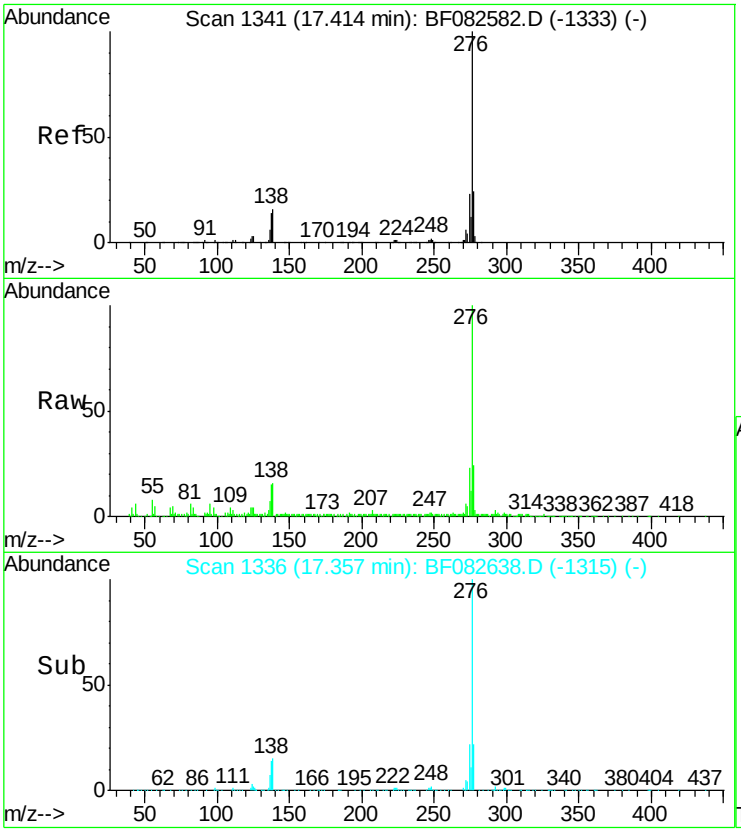




#90
Dibenzo(a,h)anthracene
Concen: 5.12 ng
RT: 16.95 min Scan# 1300
Delta R.T. -0.06 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Tgt Ion:278 Resp: 92593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 11.7 | 9.9 | 14.9 |
| 279 | 26.1 | 19.6 | 29.4 |






#91
Benzo(g,h,i)perylene
Concen: 19.24 ng
RT: 17.36 min Scan# 1336
Delta R.T. -0.06 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

**Instrument :**
BNA_F
**ClientSampleId :**
DS-1

Tgt Ion:276 Resp: 337298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.6 | 19.2 | 28.8 |
| 138 | 15.9 | 13.1 | 19.7 |