Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032117\
Data File : BF093824.D
Acq On : 22 Mar 2017 8:41
Operator : SJ/MA
Sample : I2318-01DL 100X
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HP-CT-00DL

Quant Time: Mar 22 14:35:47 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 21 14:38:20 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.82 | 152 | 209478 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.12 | 136 | 848119 | 20.00 | ng | | 0.00 |
| 38) Acenaphthene-d10 | 9.86 | 164 | 387459 | 20.00 | ng | | 0.00 |
| 63) Phenanthrene-d10 | 11.34 | 188 | 595590 | 20.00 | ng | | 0.00 |
| 75) Chrysene-d12 | 13.97 | 240 | 378519 | 20.00 | ng | | 0.00 |
| 86) Perylene-d12 | 15.37 | 264 | 367886 | 20.00 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.41 | 112 | 12474 | 1.04 | ng | | -0.01 |
| 7) Phenol-d6 | 6.45 | 99 | 15790 | 1.07 | ng | | -0.01 |
| 23) Nitrobenzene-d5 | 7.38 | 82 | 8883 | 0.59 | ng | | -0.01 |
| 41) 2,4,6-Tribromophenol | 10.64 | 330 | 2124 | 0.71 | ng | | -0.01 |
| 44) 2-Fluorobiphenyl | 9.19 | 172 | 22483 | 0.98 | ng | | 0.00 |
| 78) Terphenyl-d14 | 12.92 | 244 | 15027 | 0.81 | ng | | -0.01 |
| **Target Compounds** | | | | | | | Qvalue |
| 31) Naphthalene | 8.14 | 128 | 2806057 | 71.28 | ng | | 98 |
| 37) 2-Methylnaphthalene | 8.82 | 142 | 691759 | 26.92 | ng | | 99 |
| 45) 1,1'-Biphenyl | 9.28 | 154 | 178409 | 5.67 | ng | | 95 |
| 48) Acenaphthylene | 9.73 | 152 | 614054 | 15.63 | ng | | 98 |
| 51) Acenaphthene | 9.90 | 154 | 141339 | 6.02 | ng | | 97 |
| 54) Dibenzofuran | 10.07 | 168 | 235960 | 7.47 | ng | # | 90 |
| 57) Fluorene | 10.41 | 166 | 609924 | 25.22 | ng | | 99 |
| 70) Phenanthrene | 11.37 | 178 | 2075065 | 65.42 | ng | | 100 |
| 71) Anthracene | 11.42 | 178 | 619607 | 18.97 | ng | | 99 |
| 72) Carbazole | 11.57 | 167 | 127980 | 3.96 | ng | | 97 |
| 74) Fluoranthene | 12.55 | 202 | 895250 | 27.46 | ng | | 100 |
| 77) Pyrene | 12.78 | 202 | 1200964 | 38.13 | ng | | 100 |
| 80) Benzo(a)anthracene | 13.96 | 228 | 379044 | 15.99 | ng | # | 74 |
| 82) Chrysene | 13.99 | 228 | 261493m | 11.04 | ng | | |
| 85) Indeno(1,2,3-cd)pyrene | 16.72 | 276 | 93337 | 4.81 | ng | | 94 |
| 87) Benzo(b)fluoranthene | 14.97 | 252 | 228663m | 9.22 | ng | | |
| 88) Benzo(k)fluoranthene | 14.99 | 252 | 114891m | 6.27 | ng | | |
| 89) Benzo(a)pyrene | 15.32 | 252 | 267455 | 13.30 | ng | | 97 |
| 91) Benzo(g,h,i)perylene | 17.13 | 276 | 110091 | 6.64 | ng | | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032117\
Data File : BF093824.D
Acq On : 22 Mar 2017 8:41
Operator : SJ/MA
Sample : I2318-01DL 100X
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
HP-CT-00DL

Quant Time: Mar 22 14:35:47 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 21 14:38:20 2017
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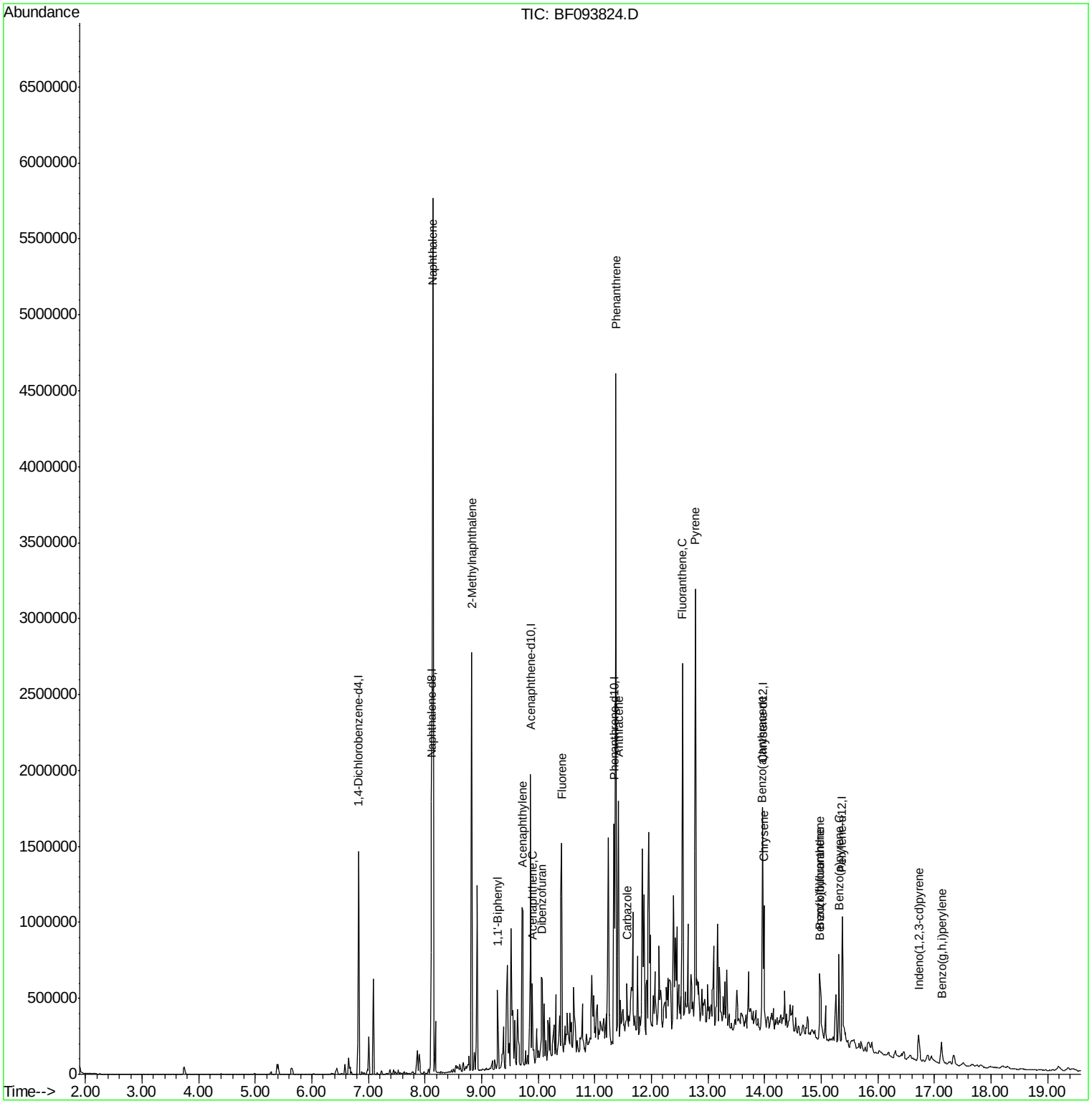
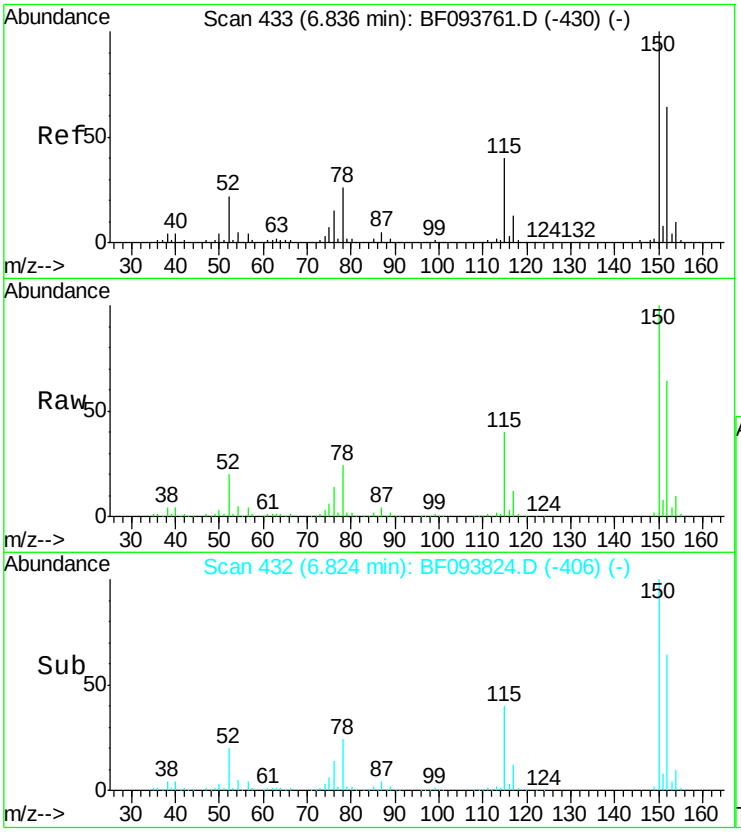


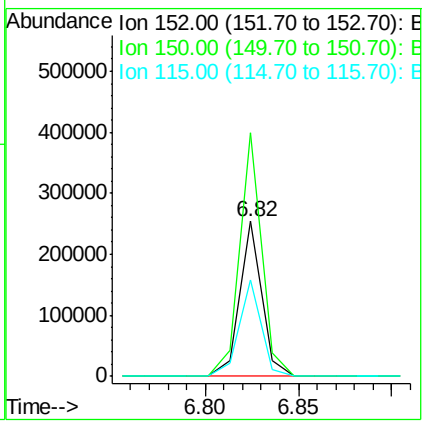


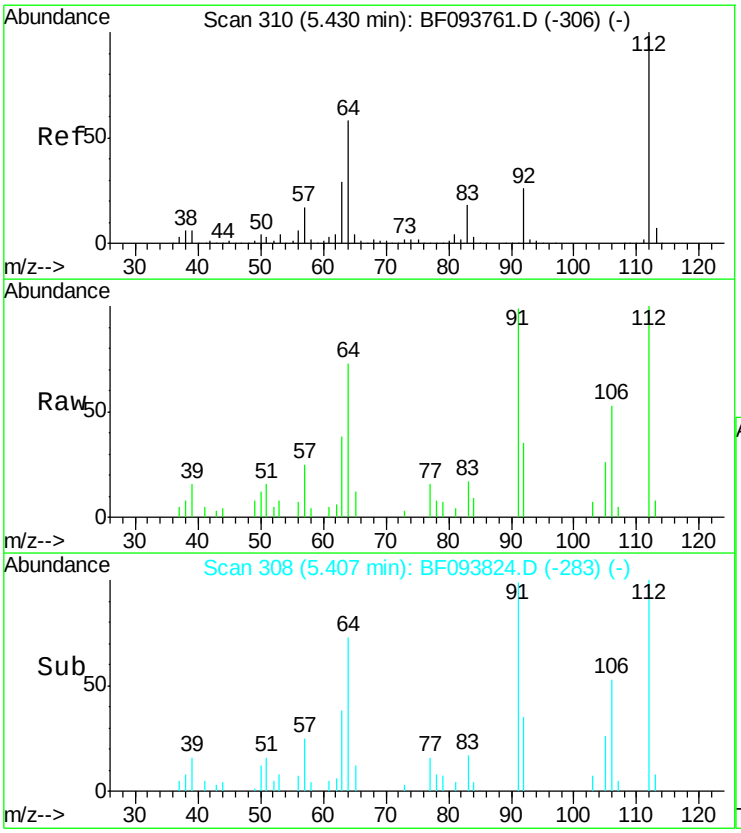

#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.82 min Scan# 432
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

**Instrument :**
BNA_F
**ClientSampleId :**
HP-CT-00DL

Tgt Ion:152 Resp: 209478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.0 | 126.2 | 189.2 |
| 115 | 62.3 | 52.2 | 78.2 |

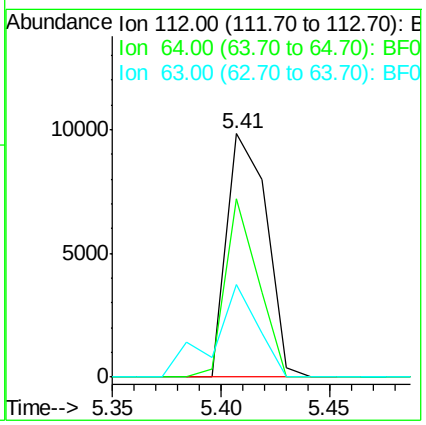


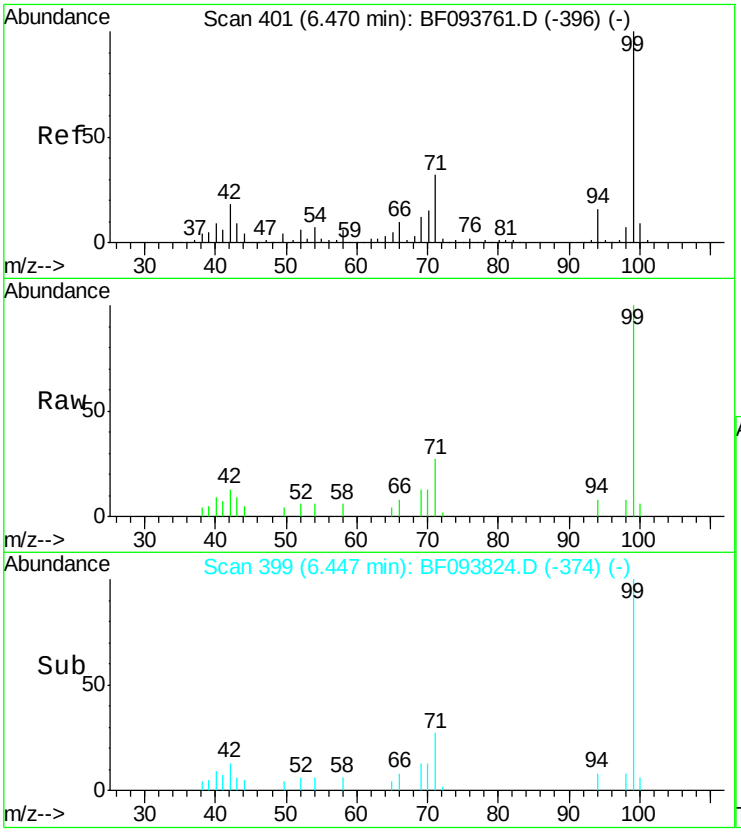




#5
2-Fluorophenol
Concen: 1.04 ng
RT: 5.41 min Scan# 308
Delta R.T. -0.01 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Tgt Ion:112 Resp: 12474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 73.2 | 46.0 | 69.0# |
| 63 | 38.3 | 23.4 | 35.0# |



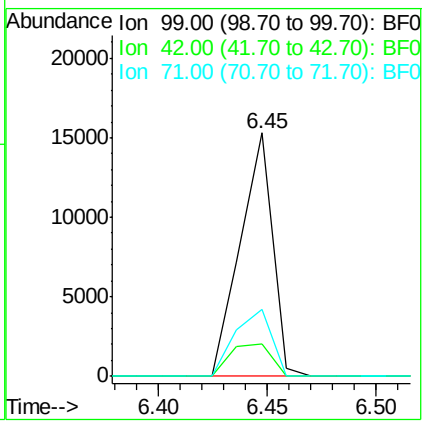


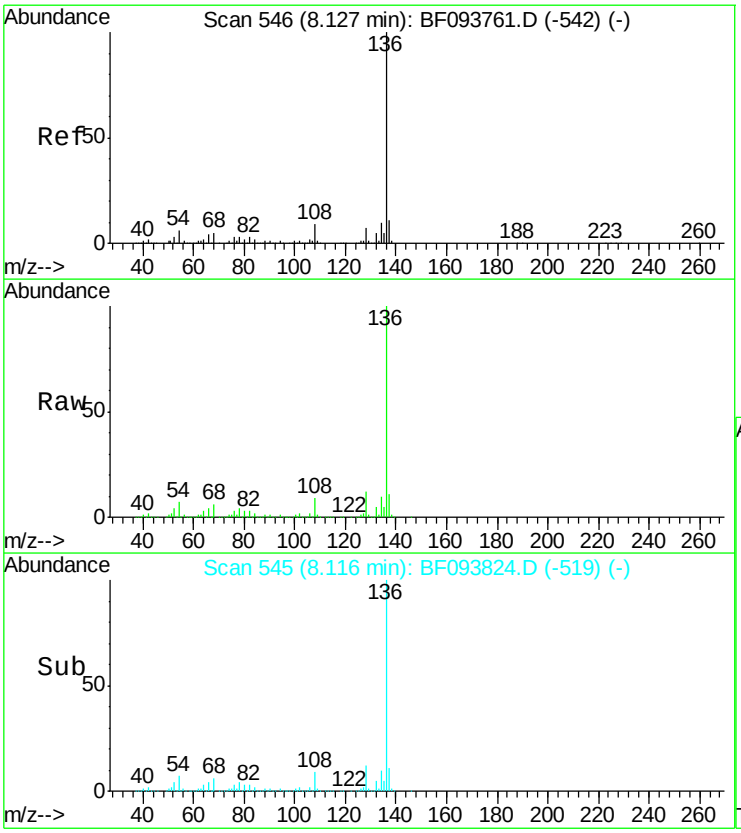

#7
Phenol-d6
Concen: 1.07 ng
RT: 6.45 min Scan# 399
Delta R.T. -0.01 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

**Instrument :**
BNA_F
**ClientSampleId :**
HP-CT-00DL

Tgt Ion: 99 Resp: 15790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 13.3 | 13.5 | 20.3# |
| 71 | 27.4 | 24.5 | 36.7 |

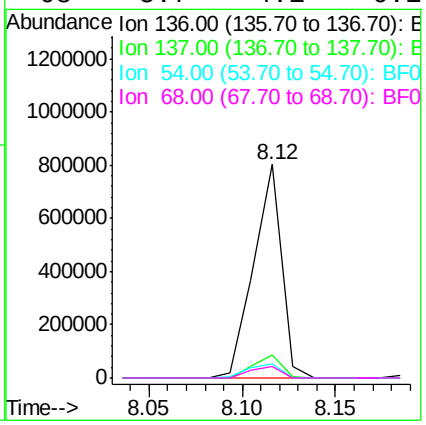


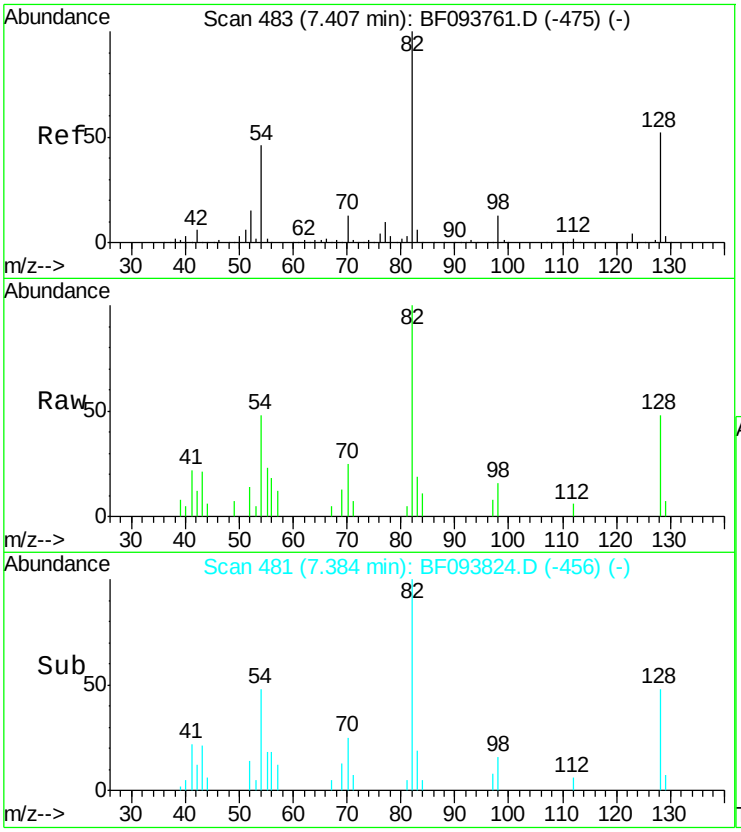




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.12 min Scan# 545
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Tgt Ion:136 Resp: 848119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.1 | 8.5 | 12.7 |
| 54 | 6.7 | 4.9 | 7.3 |
| 68 | 5.7 | 4.1 | 6.1 |



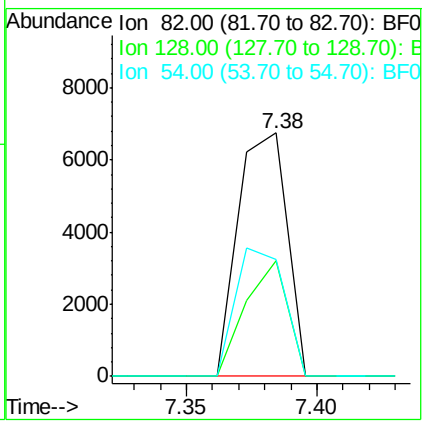


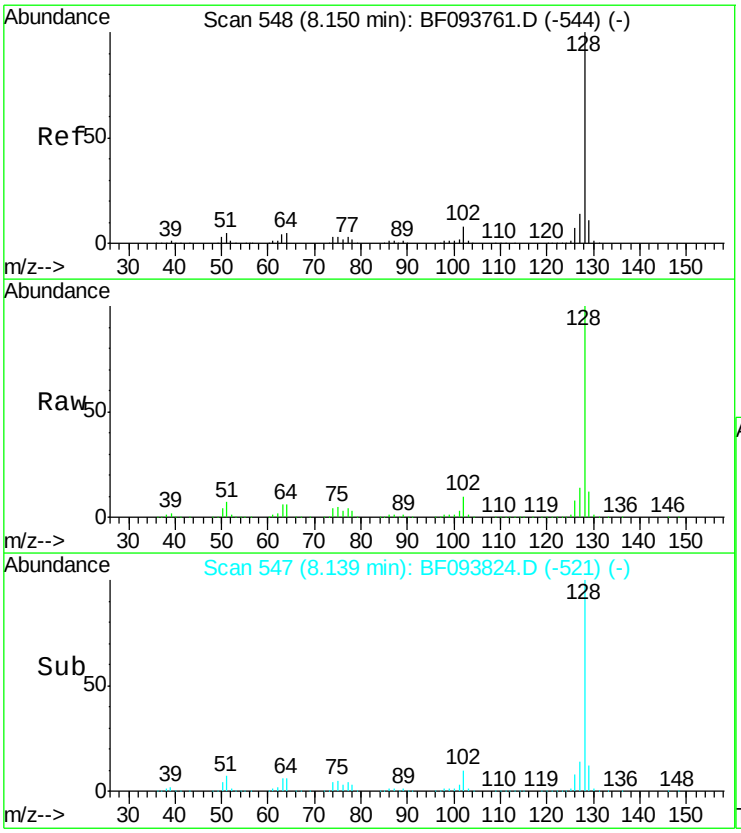

#23
Nitrobenzene-d5
Concen: 0.59 ng
RT: 7.38 min Scan# 481
Delta R.T. -0.01 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

**Instrument :**
BNA_F
**ClientSampleId :**
HP-CT-00DL

Tgt Ion: 82 Resp: 8883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 47.6 | 34.0 | 51.0 |
| 54 | 47.9 | 42.2 | 63.2 |

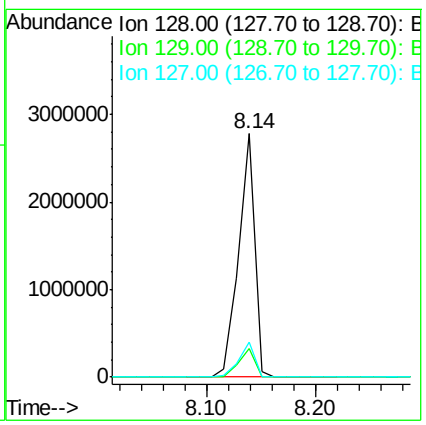


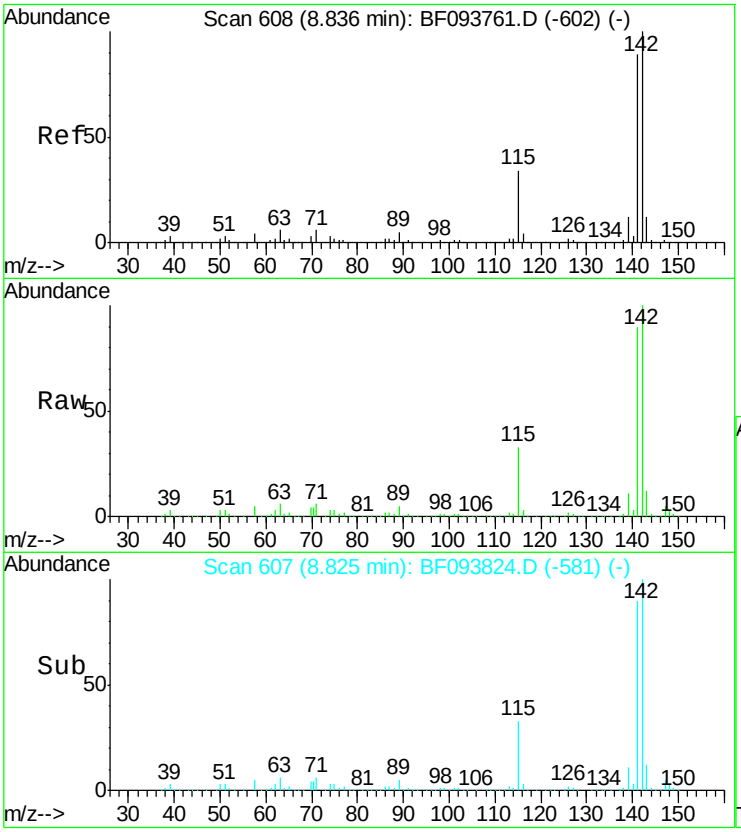




#31
Naphthalene
Concen: 71.28 ng
RT: 8.14 min Scan# 547
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Tgt Ion:128 Resp: 2806057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.9 | 9.0 | 13.6 |
| 127 | 14.4 | 10.8 | 16.2 |



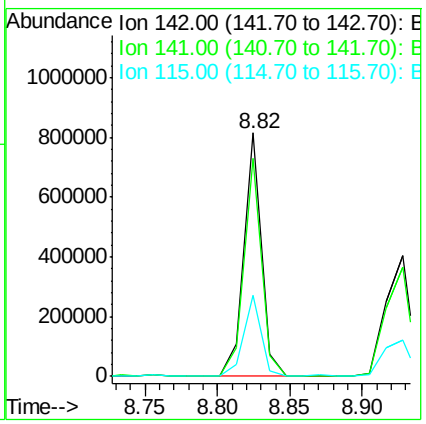


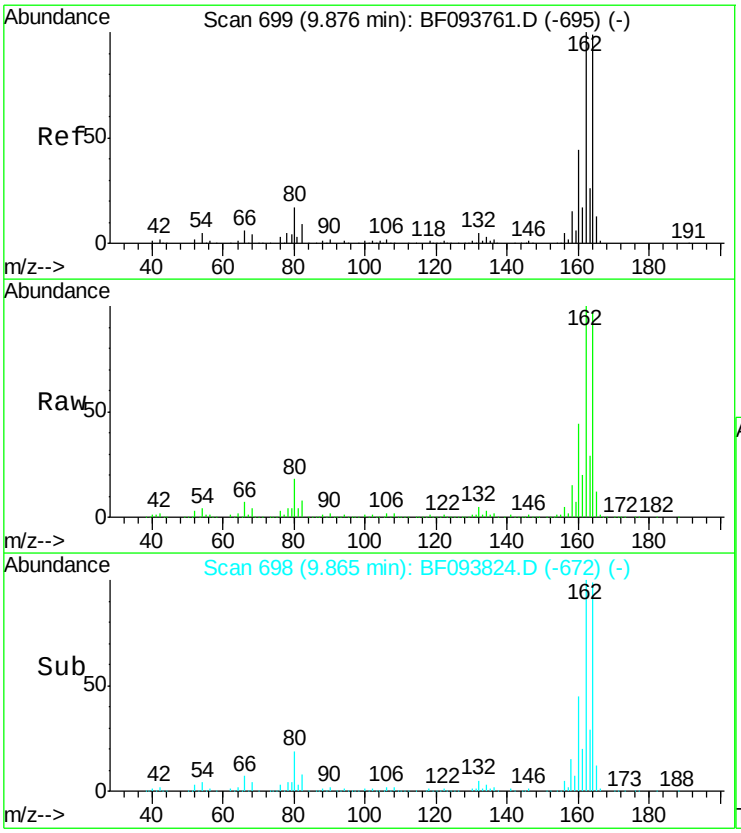

#37
2-Methylnaphthalene
Concen: 26.92 ng
RT: 8.82 min Scan# 607
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

**Instrument :**
BNA_F
**ClientSampleId :**
HP-CT-00DL

Tgt Ion:142 Resp: 691759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.5 | 71.3 | 106.9 |
| 115 | 33.4 | 27.1 | 40.7 |

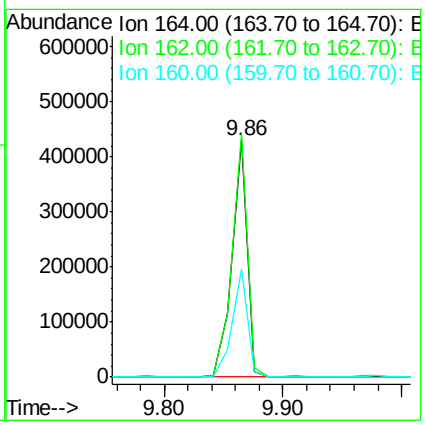


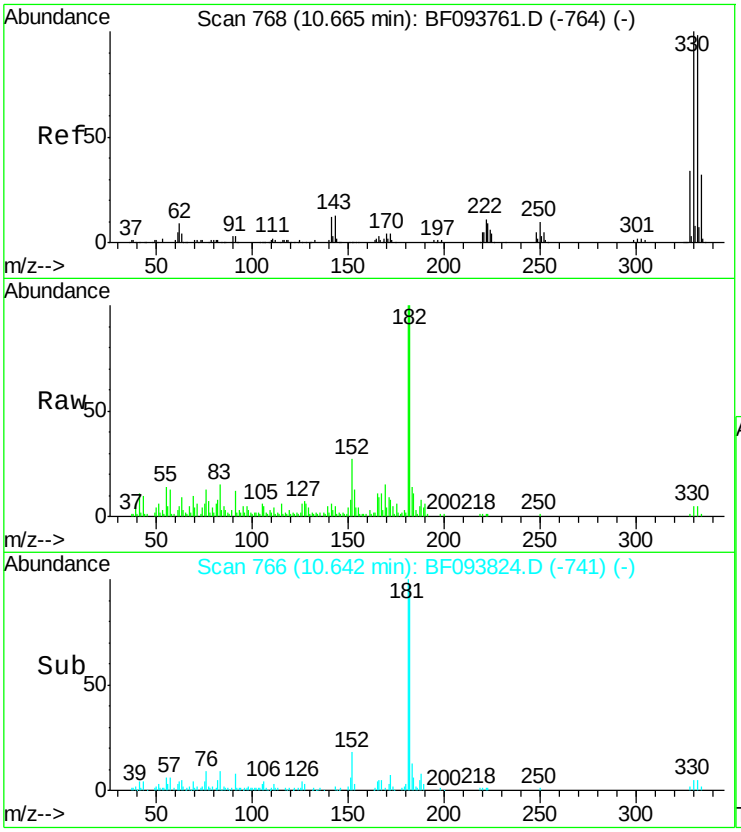




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.86 min Scan# 698
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Tgt Ion:164 Resp: 387459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.8 | 82.6 | 123.8 |
| 160 | 45.4 | 36.2 | 54.2 |



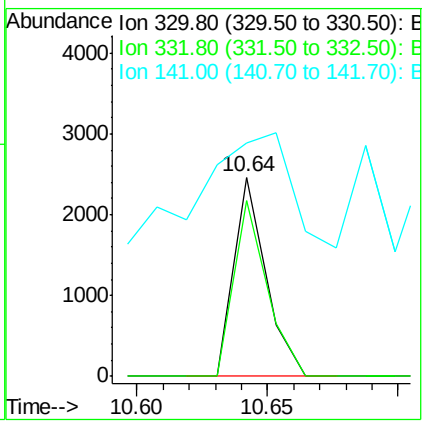


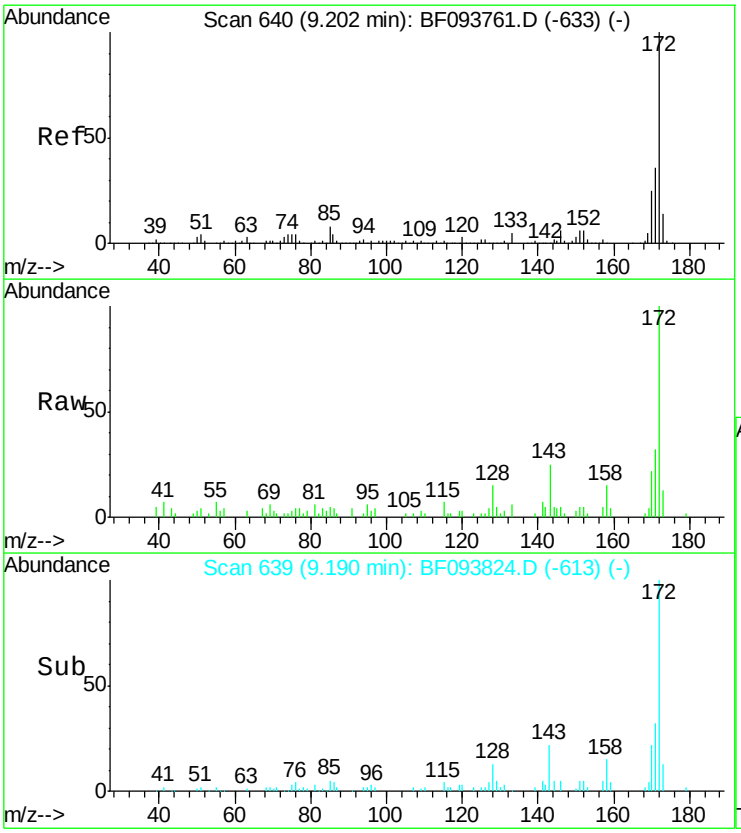

#41
2,4,6-Tribromophenol
Concen: 0.71 ng
RT: 10.64 min Scan# 766
Delta R.T. -0.01 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

**Instrument :**
BNA_F
**ClientSampleId :**
HP-CT-00DL

Tgt Ion:330 Resp: 2124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 91.8 | 76.6 | 115.0 |
| 141 | 156.2 | 31.4 | 47.2# |

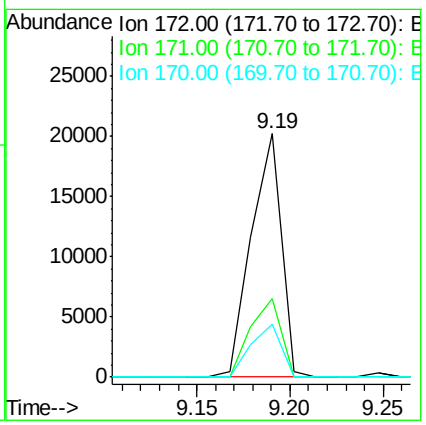


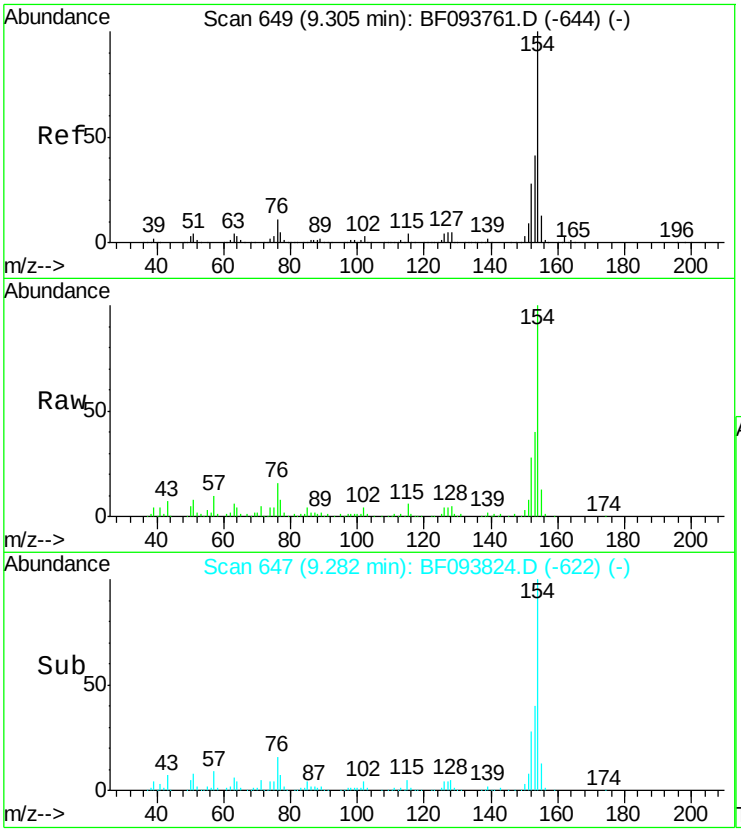




#44
2-Fluorobiphenyl
Concen: 0.98 ng
RT: 9.19 min Scan# 639
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Tgt Ion:172 Resp: 22483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 32.3 | 29.6 | 44.4 |
| 170 | 21.6 | 19.8 | 29.8 |



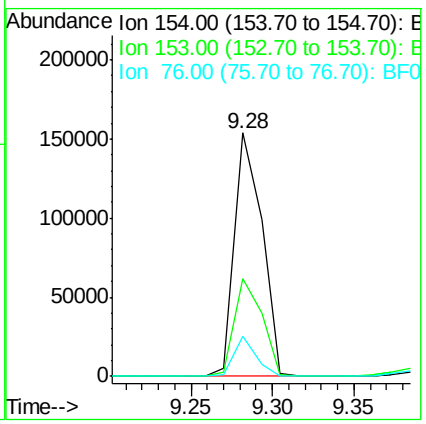


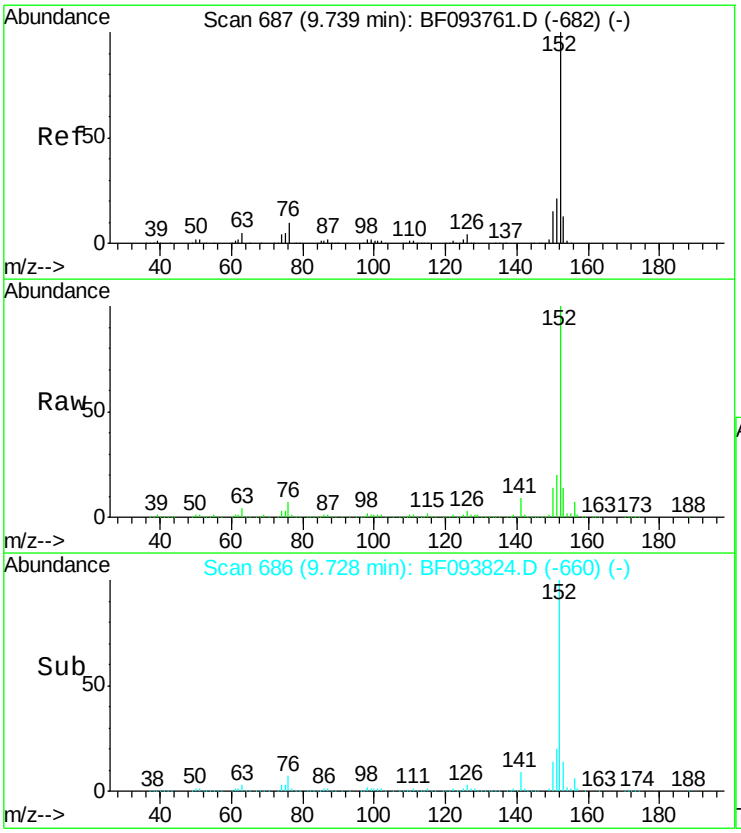

#45
1,1'-Biphenyl
Concen: 5.67 ng
RT: 9.28 min Scan# 647
Delta R.T. -0.01 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

**Instrument :**
BNA_F
**ClientSampleId :**
HP-CT-00DL

Tgt Ion:154 Resp: 178409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 39.9 | 21.2 | 61.2 |
| 76 | 16.3 | 0.0 | 29.9 |

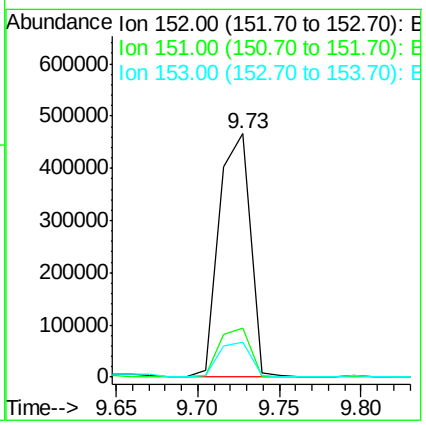


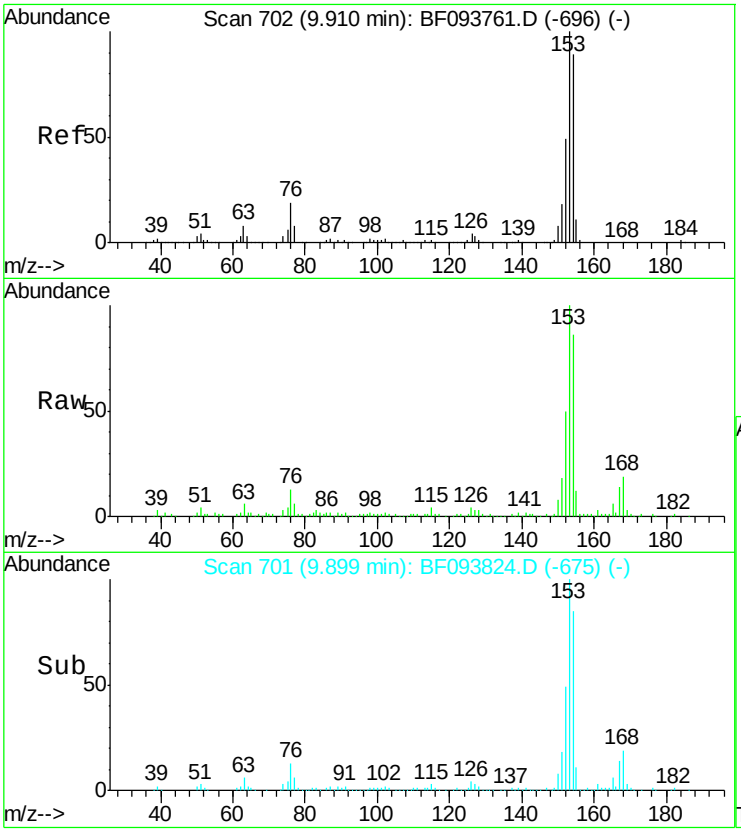




#48
Acenaphthylene
Concen: 15.63 ng
RT: 9.73 min Scan# 686
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Tgt Ion:152 Resp: 614054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.8 | 25.2 |
| 153 | 14.2 | 10.8 | 16.2 |



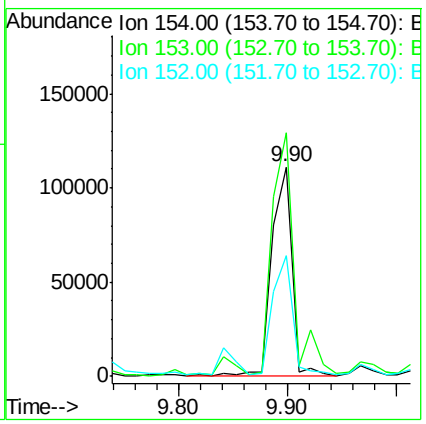


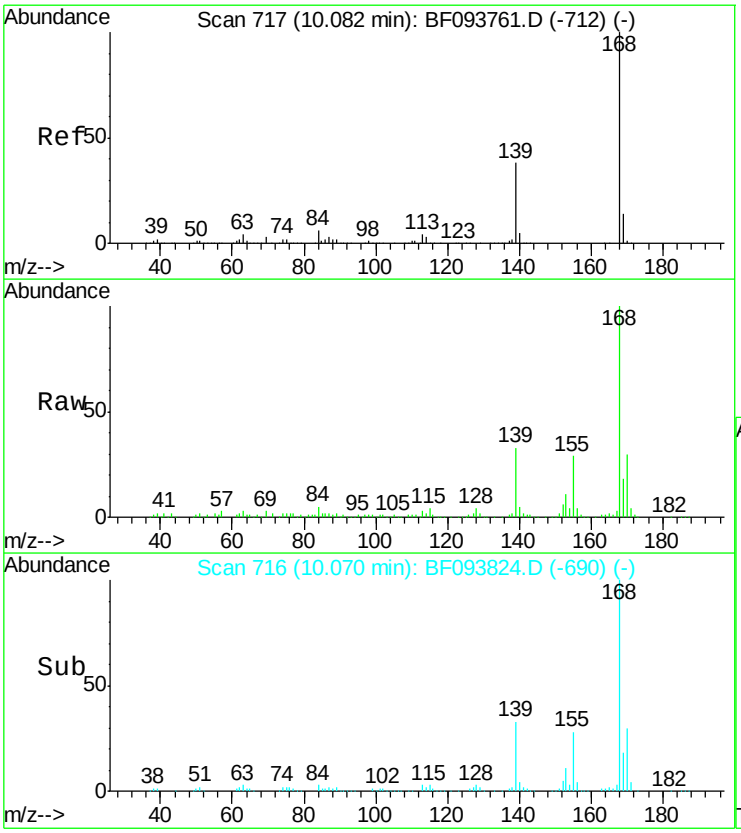

#51
Acenaphthene
Concen: 6.02 ng
RT: 9.90 min Scan# 701
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

**Instrument :**
BNA_F
**ClientSampleId :**
HP-CT-00DL

Tgt Ion:154 Resp: 141339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.2 | 90.5 | 135.7 |
| 152 | 57.8 | 43.6 | 65.4 |

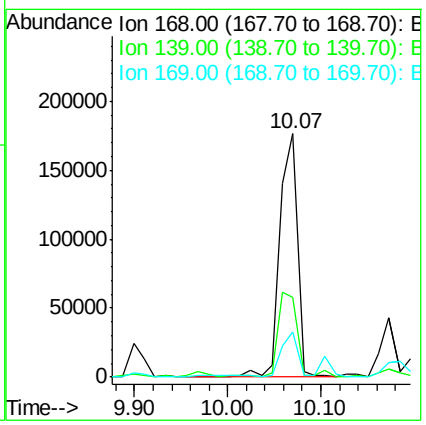


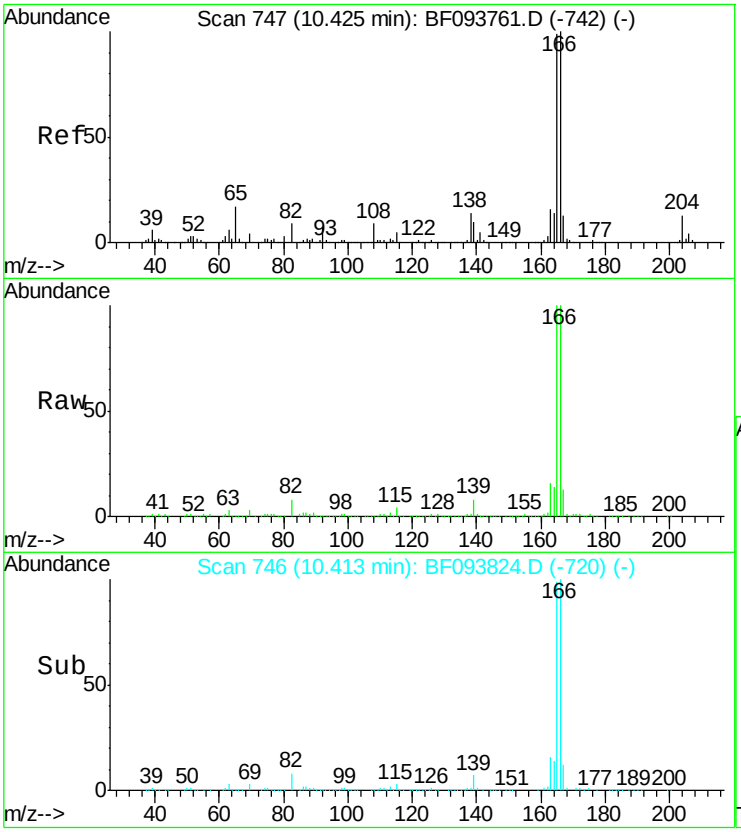




#54
Dibenzofuran
Concen: 7.47 ng
RT: 10.07 min Scan# 716
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Tgt Ion:168 Resp: 235960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 32.8 | 30.6 | 45.8 |
| 169 | 18.4 | 10.8 | 16.2# |



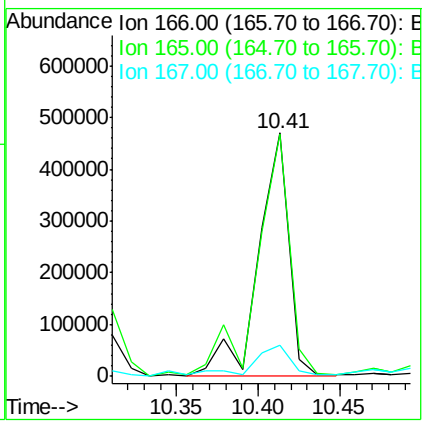


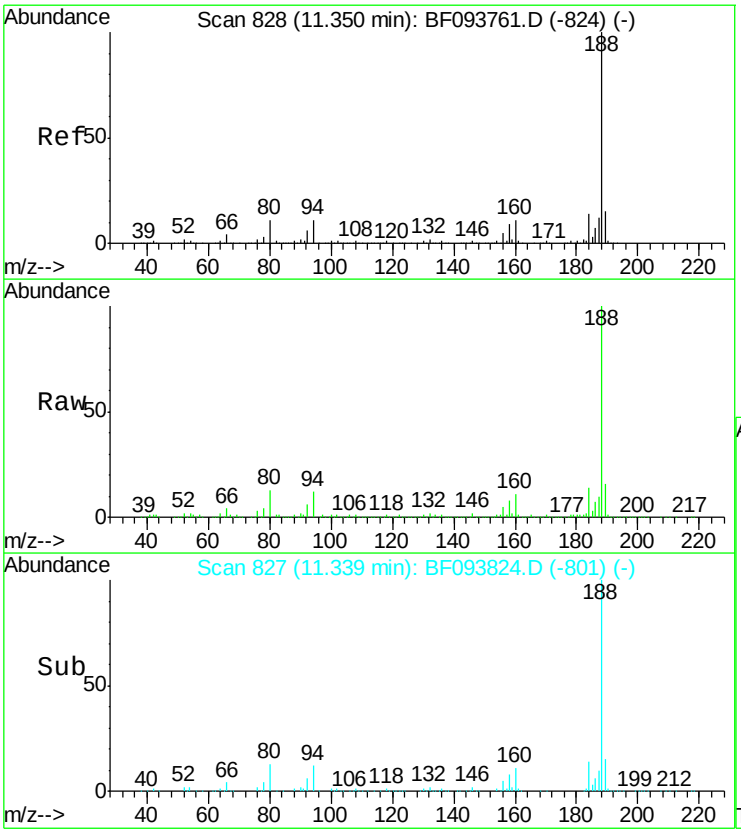

#57
Fluorene
Concen: 25.22 ng
RT: 10.41 min Scan# 746
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

**Instrument :**
BNA_F
**ClientSampleId :**
HP-CT-00DL

Tgt Ion:166 Resp: 609924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.6 | 78.8 | 118.2 |
| 167 | 13.0 | 10.6 | 16.0 |

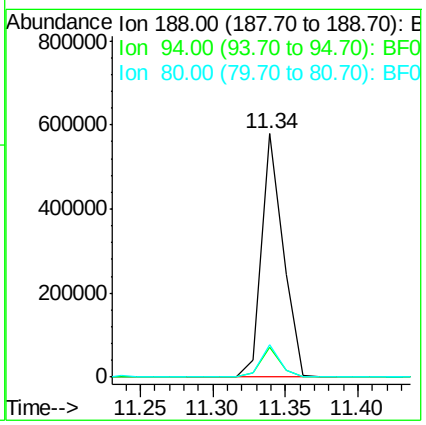


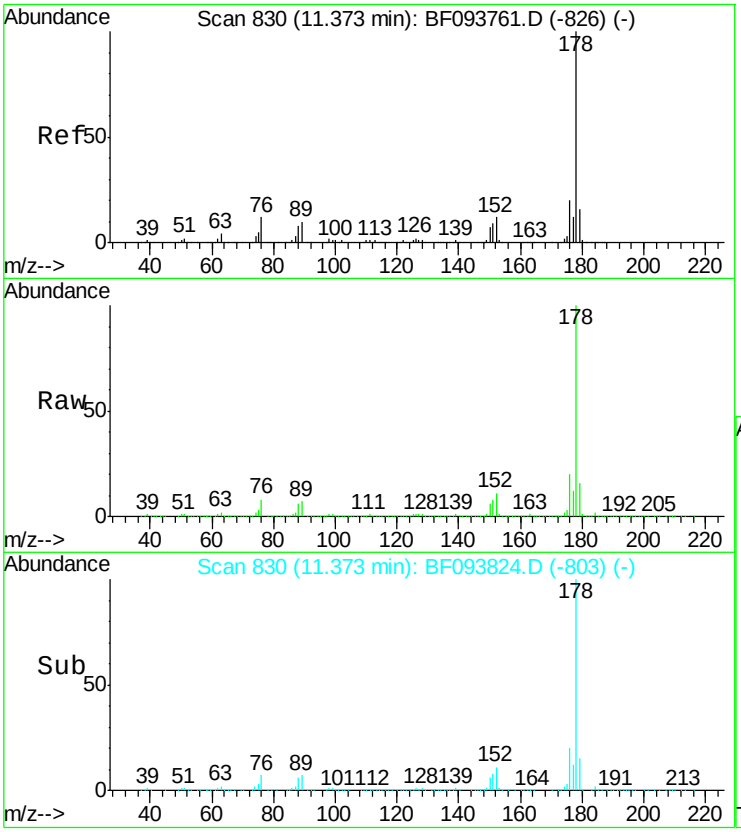




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.34 min Scan# 827
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Tgt Ion:188 Resp: 595590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 12.4 | 9.4 | 14.2 |
| 80 | 13.5 | 10.2 | 15.2 |



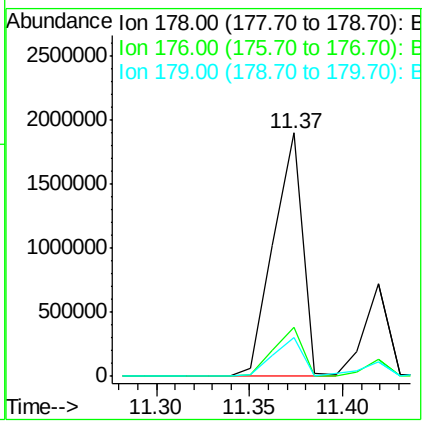


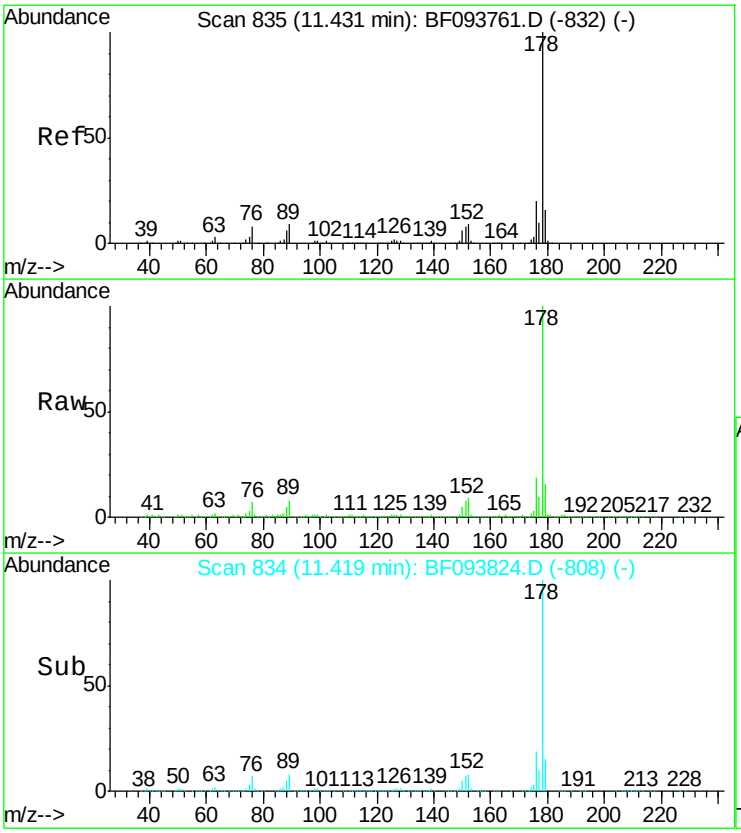

#70
Phenanthrene
Concen: 65.42 ng
RT: 11.37 min Scan# 830
Delta R.T. 0.01 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

**Instrument :**
BNA_F
**ClientSampleId :**
HP-CT-00DL

Tgt Ion:178 Resp: 2075065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.3 | 16.2 | 24.4 |
| 179 | 15.8 | 12.6 | 19.0 |

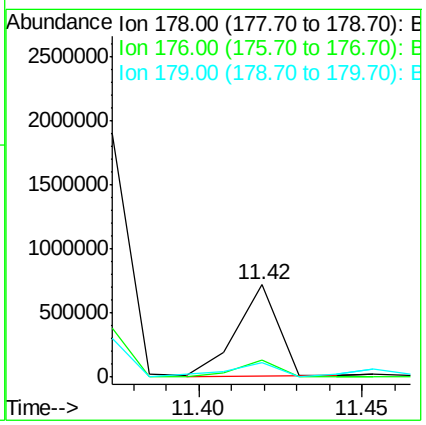


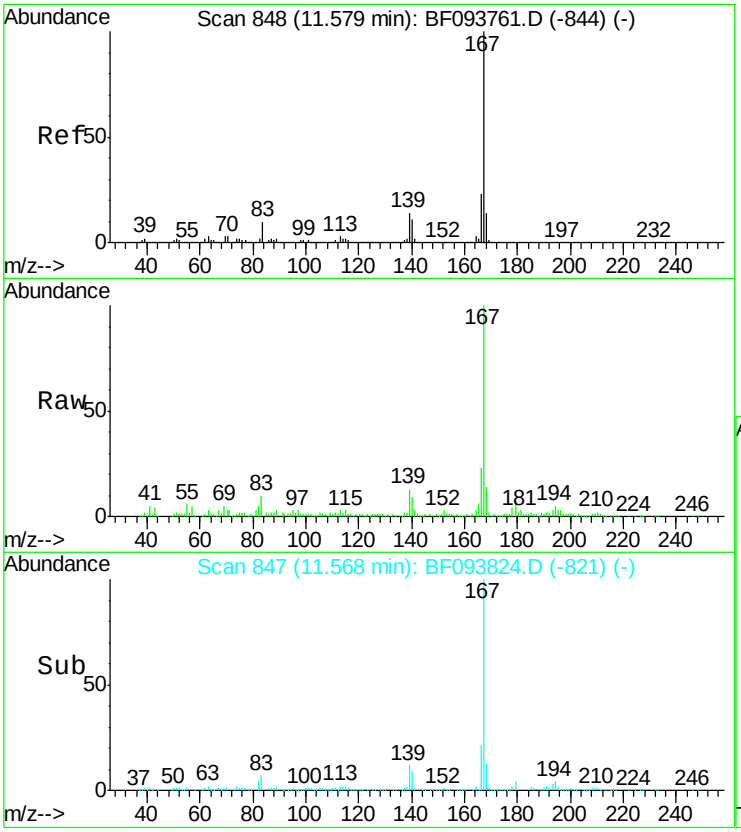




#71
Anthracene
Concen: 18.97 ng
RT: 11.42 min Scan# 834
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Tgt Ion:178 Resp: 619607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.1 | 15.8 | 23.8 |
| 179 | 15.7 | 12.7 | 19.1 |



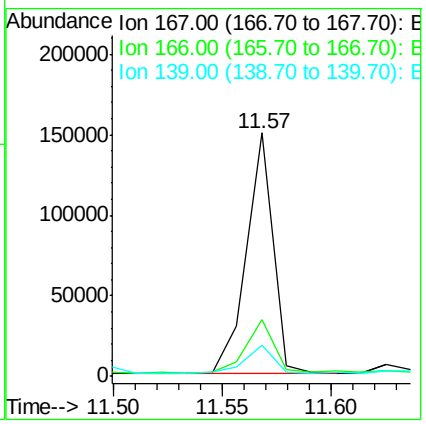


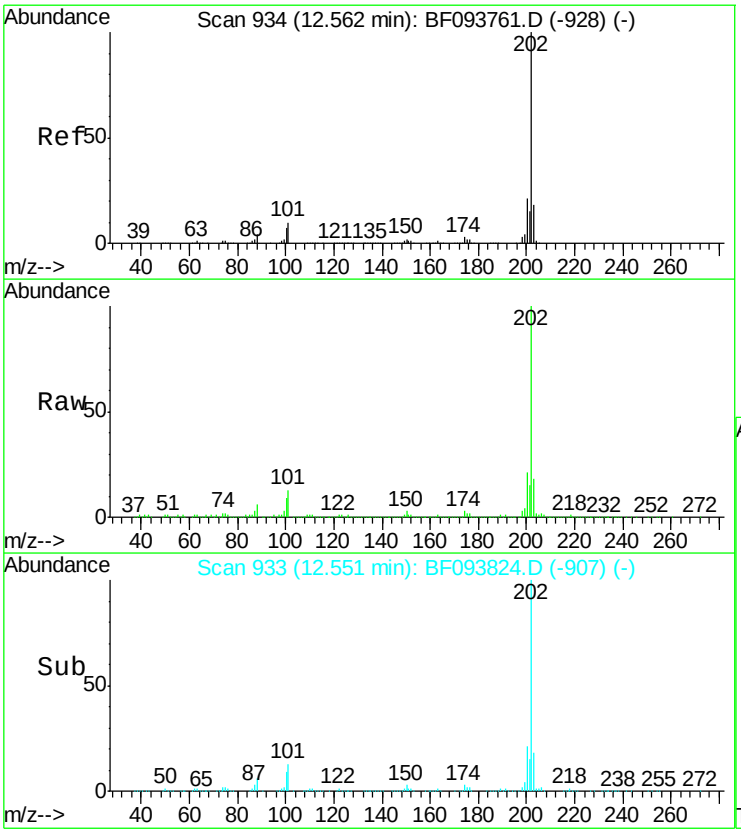

#72
Carbazole
Concen: 3.96 ng
RT: 11.57 min Scan# 847
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

**Instrument :**
BNA_F
**ClientSampleId :**
HP-CT-00DL

Tgt Ion:167 Resp: 127980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 23.3 | 18.1 | 27.1 |
| 139 | 12.9 | 11.7 | 17.5 |

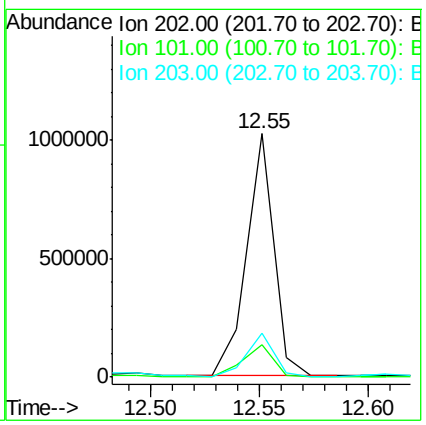


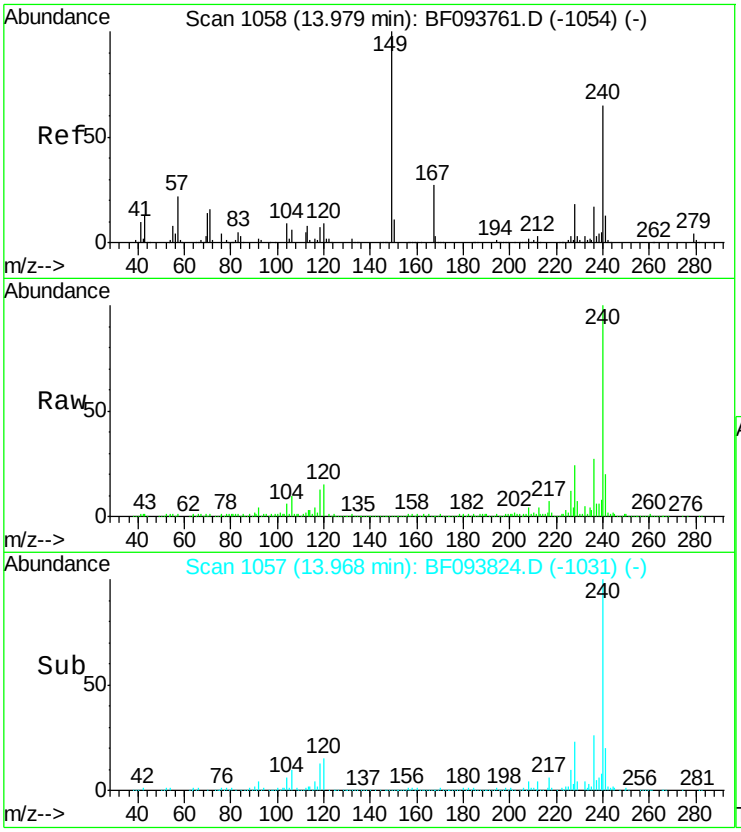




#74
Fluoranthene
Concen: 27.46 ng
RT: 12.55 min Scan# 933
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Tgt Ion:202 Resp: 895250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.2 | 0.0 | 33.2 |
| 203 | 18.0 | 0.0 | 38.1 |



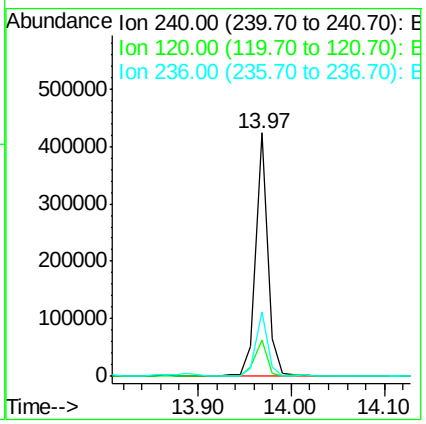


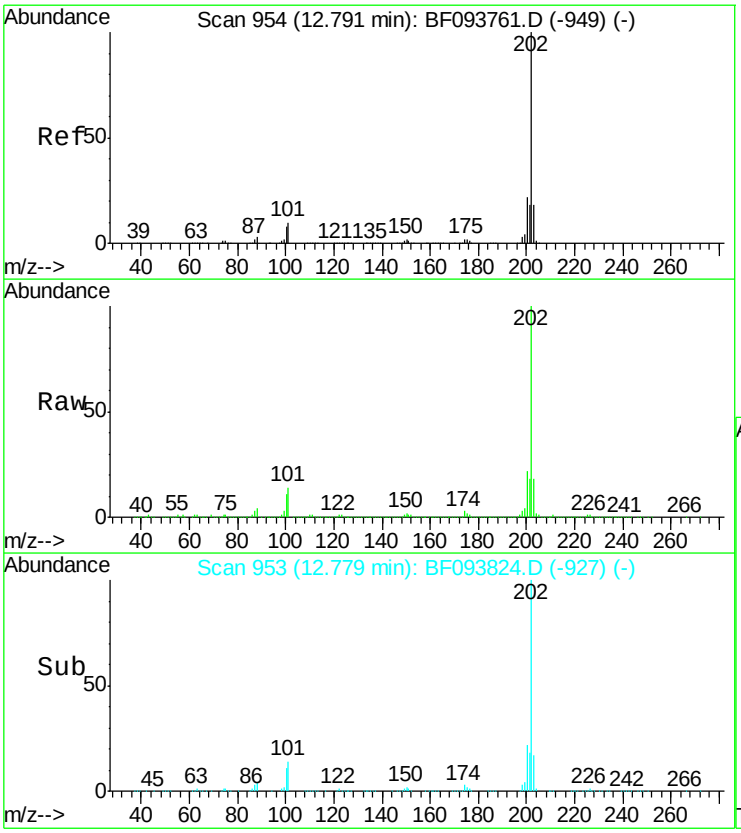

#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.97 min Scan# 1057
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

**Instrument :**
BNA_F
**ClientSampleId :**
HP-CT-00DL

Tgt Ion:240 Resp: 378519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 15.0 | 5.8 | 8.8# |
| 236 | 26.6 | 20.5 | 30.7 |

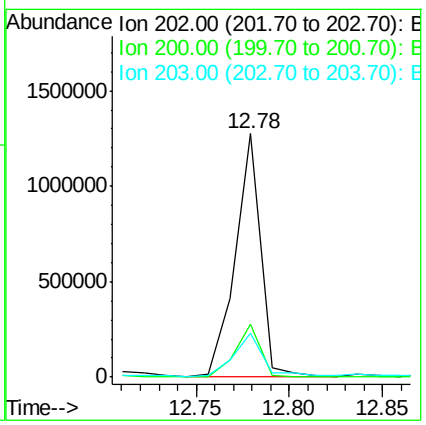


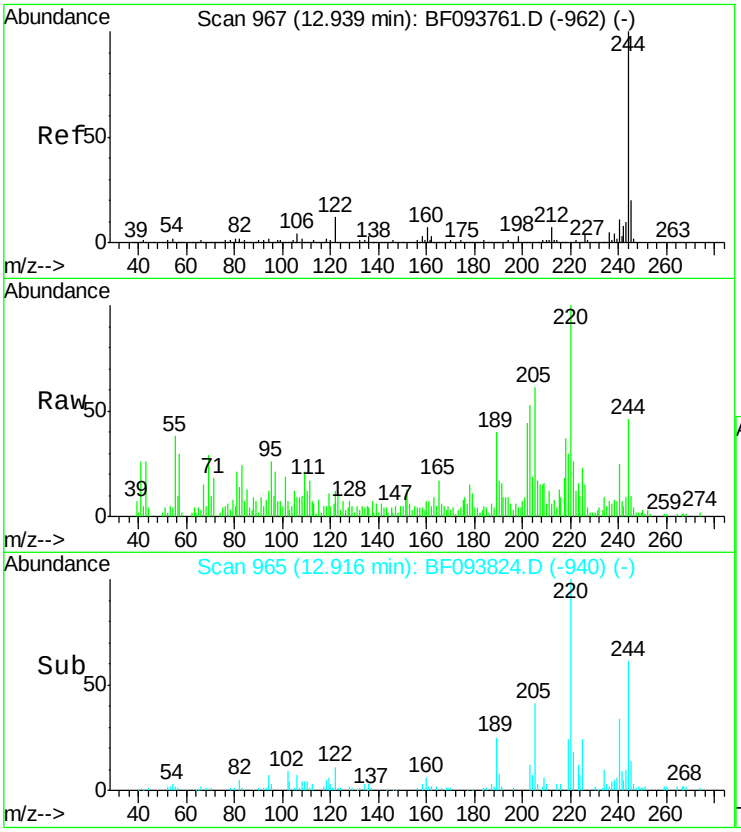




#77
Pyrene
Concen: 38.13 ng
RT: 12.78 min Scan# 953
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Tgt Ion:202 Resp: 1200964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.0 | 17.6 | 26.4 |
| 203 | 17.8 | 14.4 | 21.6 |



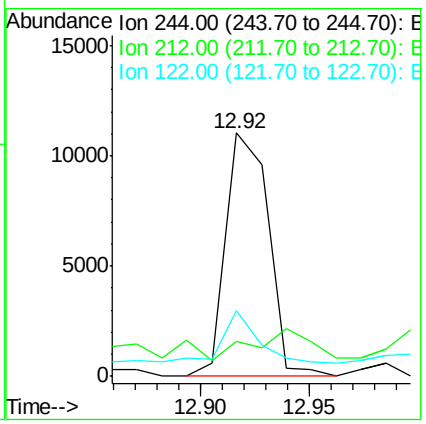


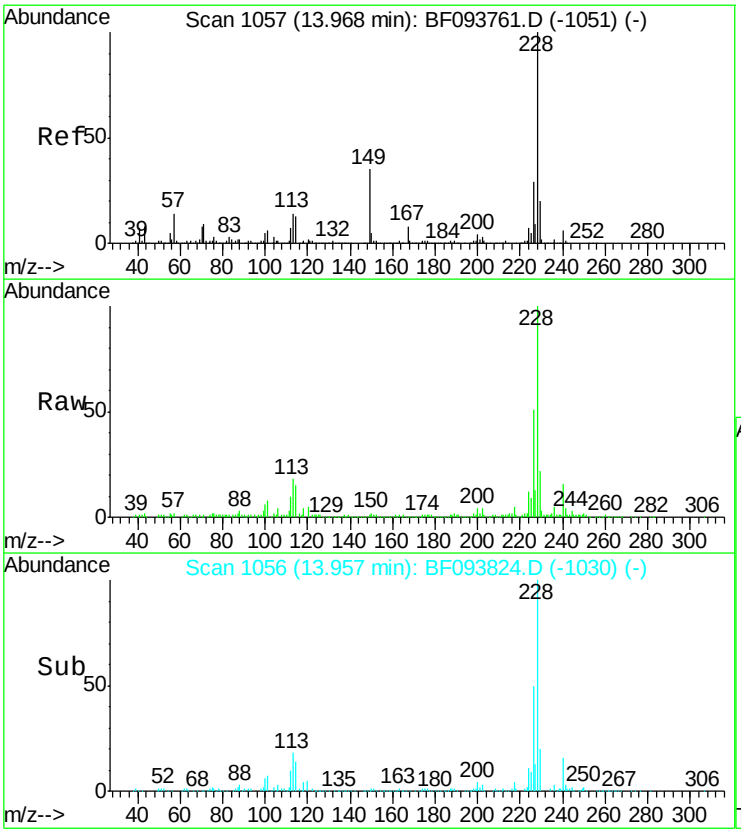

#78
Terphenyl-d14
Concen: 0.81 ng
RT: 12.92 min Scan# 965
Delta R.T. -0.01 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

**Instrument :**
BNA_F
**ClientSampleId :**
HP-CT-00DL

Tgt Ion:244 Resp: 15027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 14.1 | 6.0 | 9.0# |
| 122 | 26.8 | 10.3 | 15.5# |

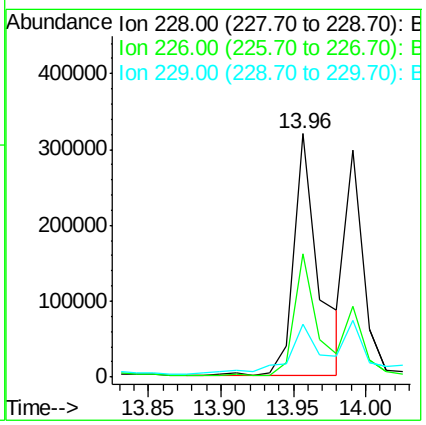


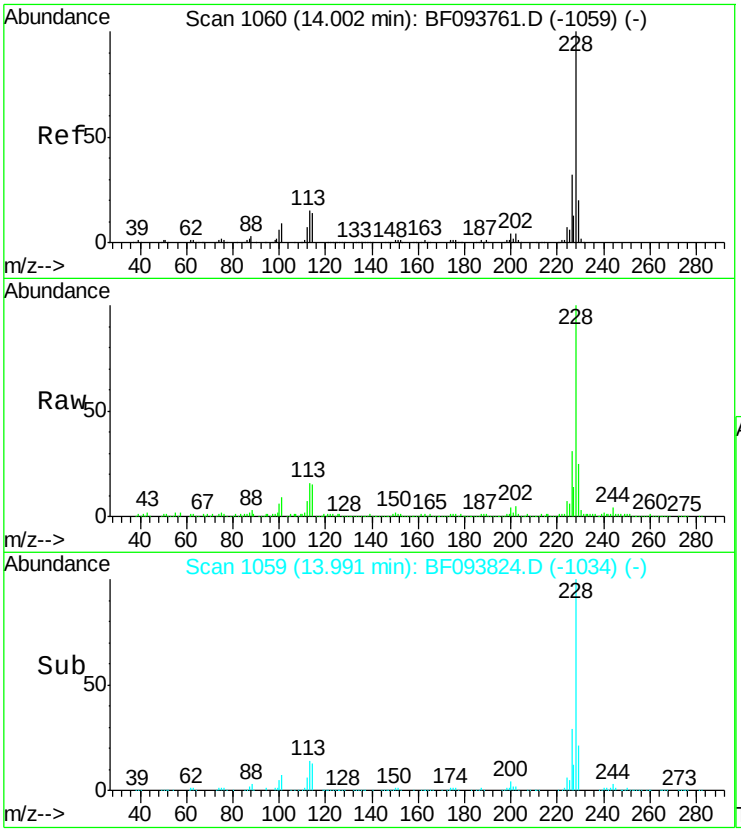




#80
Benzo(a)anthracene
Concen: 15.99 ng
RT: 13.96 min Scan# 1056
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Tgt Ion:228 Resp: 379044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 50.6 | 22.6 | 33.8# |
| 229 | 21.9 | 16.3 | 24.5 |



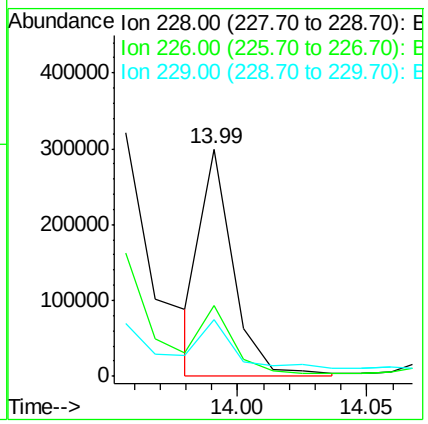


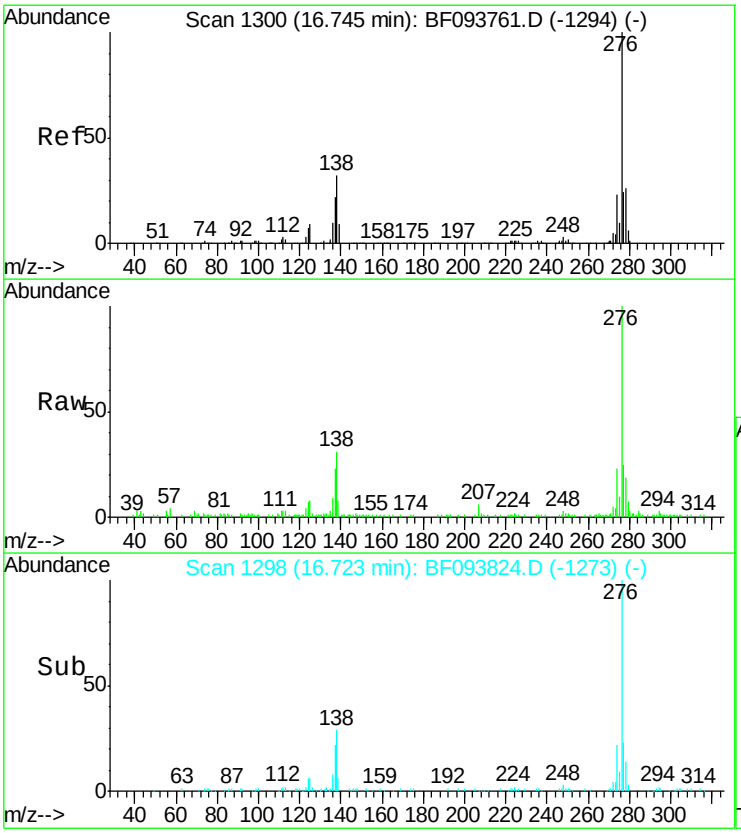

#82
Chrysene
Concen: 11.04 ng m
RT: 13.99 min Scan# 1059
Delta R.T. -0.01 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

**Instrument :**
BNA_F
**ClientSampleId :**
HP-CT-00DL

Tgt Ion:228 Resp: 261493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.3 | 24.9 | 37.3 |
| 229 | 25.0 | 15.8 | 23.6# |

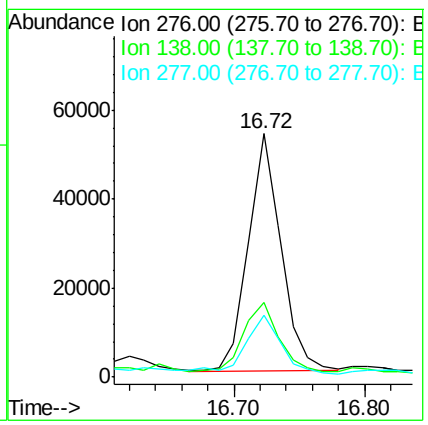


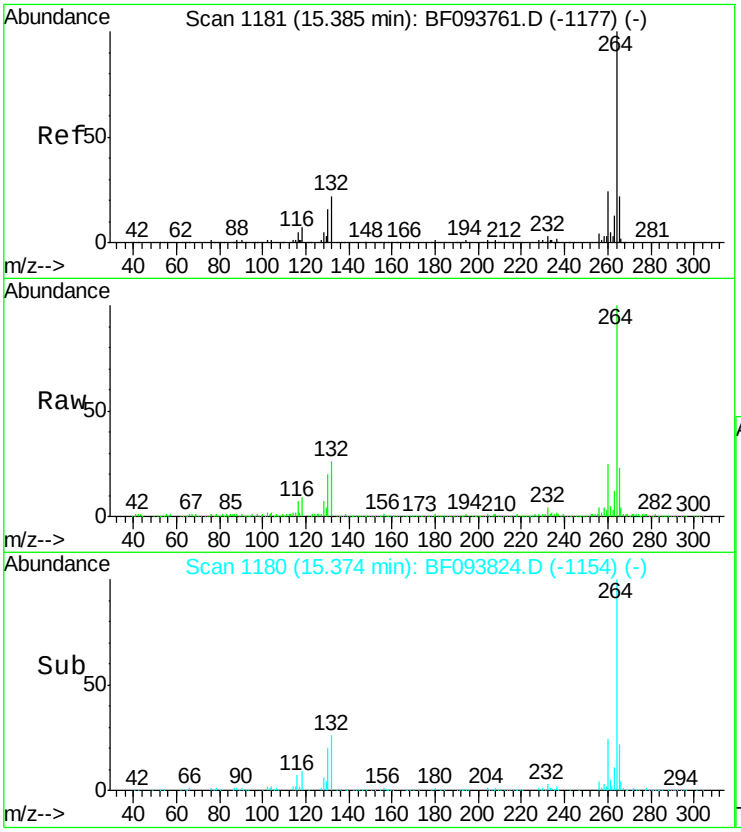




#85
Indeno(1,2,3-cd)pyrene
Concen: 4.81 ng
RT: 16.72 min Scan# 1298
Delta R.T. -0.01 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Tgt Ion:276 Resp: 93337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 30.9 | 27.8 | 41.6 |
| 277 | 27.3 | 20.2 | 30.4 |



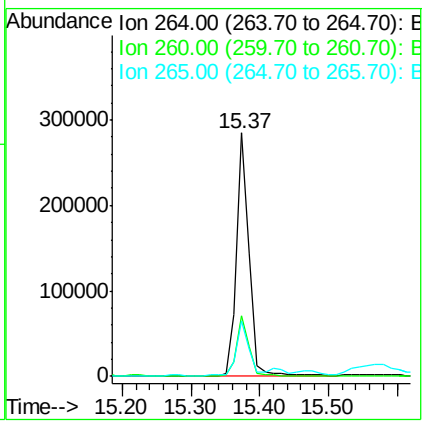


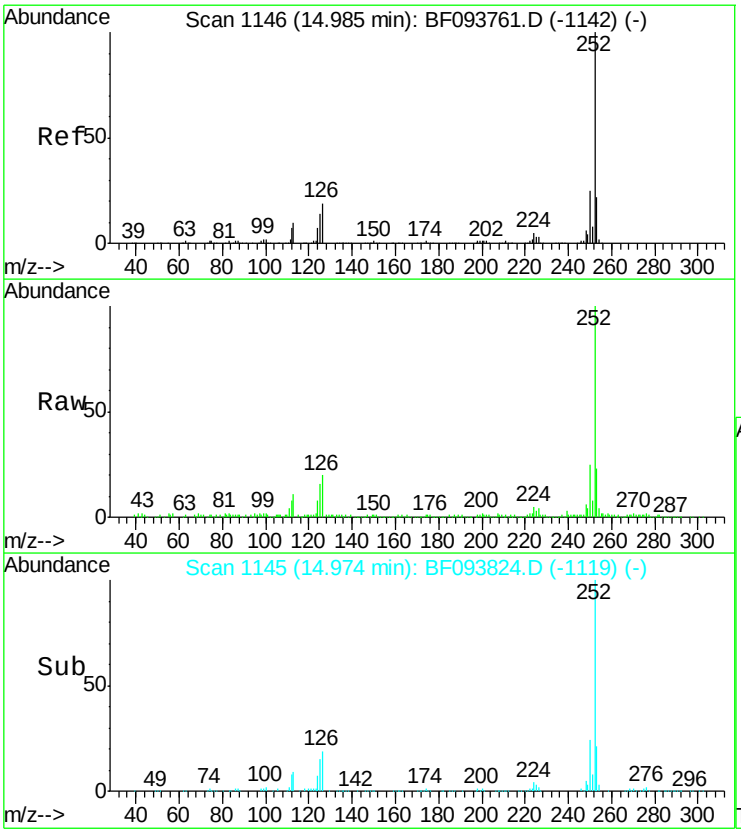

#86
Perylene-d12
Concen: 20.00 ng
RT: 15.37 min Scan# 1180
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

**Instrument :**
BNA_F
**ClientSampleId :**
HP-CT-00DL

Tgt Ion:264 Resp: 367886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.7 | 19.5 | 29.3 |
| 265 | 22.5 | 17.2 | 25.8 |

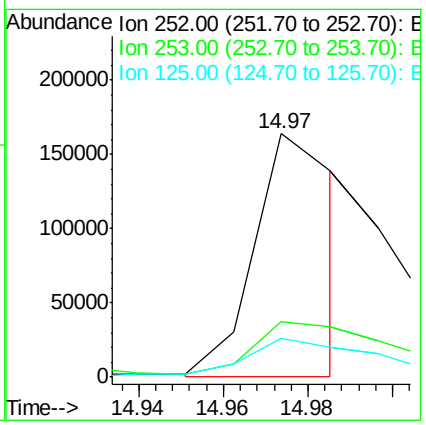


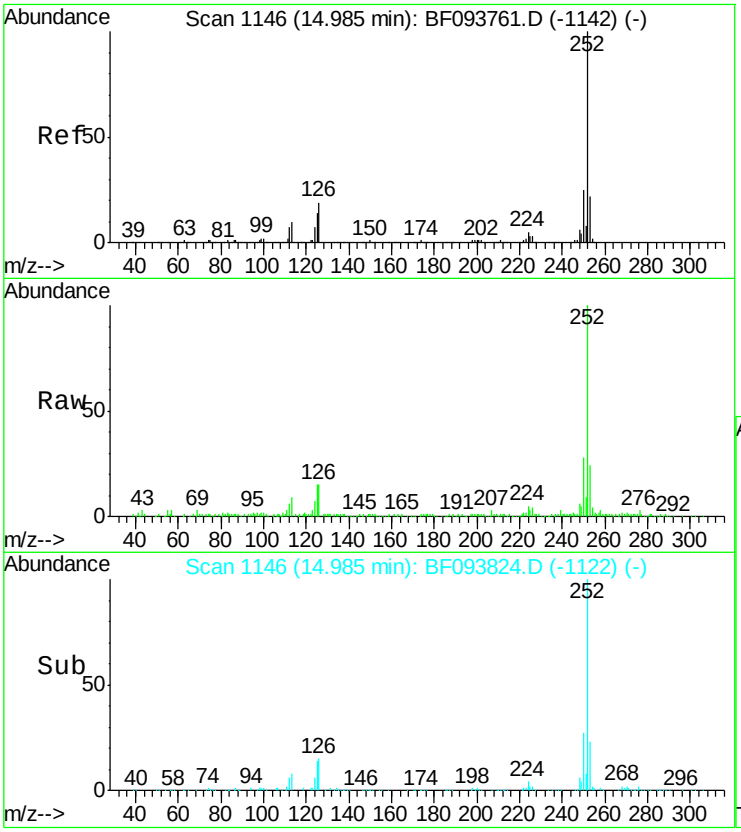




#87
Benzo(b)fluoranthene
Concen: 9.22 ng m
RT: 14.97 min Scan# 1145
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Tgt Ion:252 Resp: 228663

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.7 | 18.1 | 27.1 |
| 125 | 16.0 | 9.8 | 14.8# |



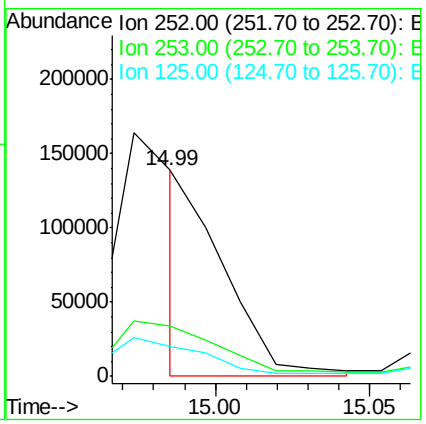


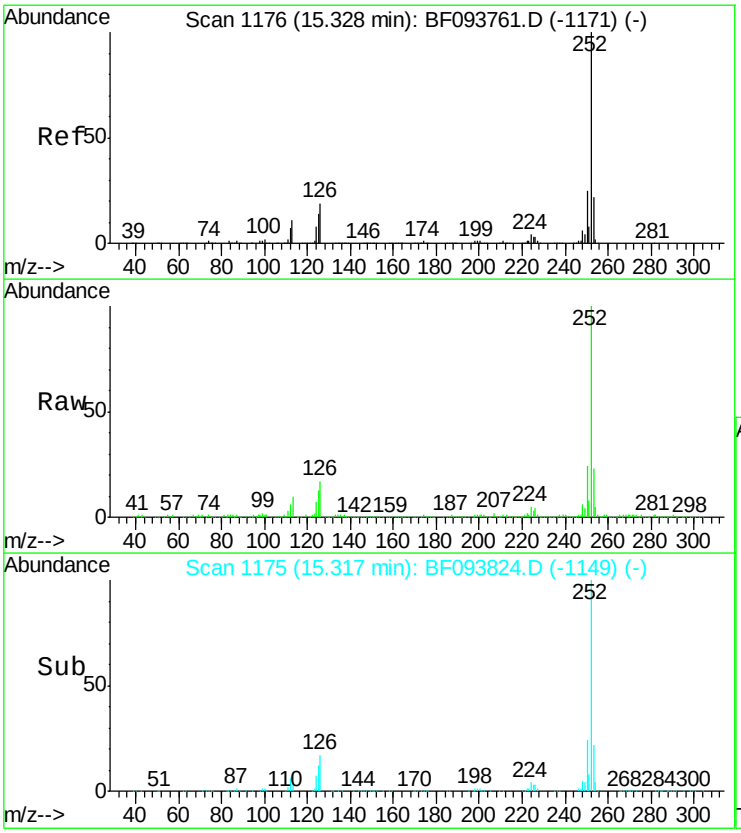

#88
Benzo(k)fluoranthene
Concen: 6.27 ng m
RT: 14.99 min Scan# 1146
Delta R.T. -0.02 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

**Instrument :**
BNA_F
**ClientSampleId :**
HP-CT-00DL

Tgt Ion:252 Resp: 114891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.2 | 18.4 | 27.6 |
| 125 | 14.6 | 13.1 | 19.7 |

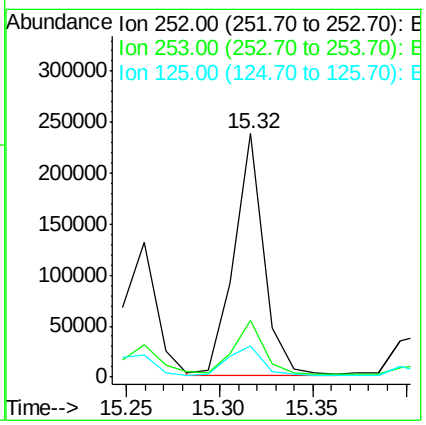


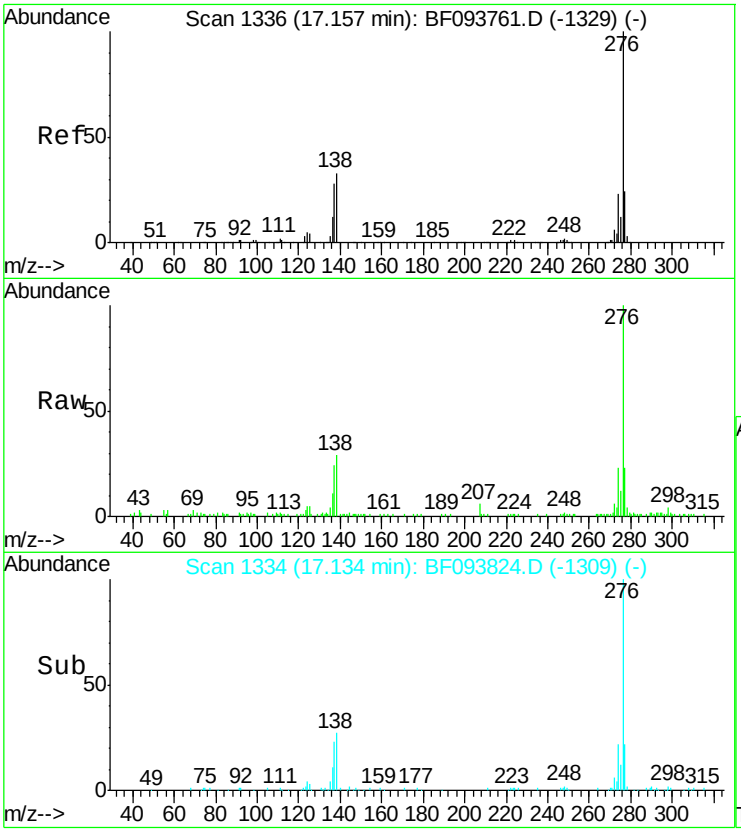




#89
Benzo(a)pyrene
Concen: 13.30 ng
RT: 15.32 min Scan# 1175
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Tgt Ion:252 Resp: 267455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.3 | 17.5 | 26.3 |
| 125 | 12.7 | 11.0 | 16.4 |






#91
Benzo(g,h,i)perylene
Concen: 6.64 ng
RT: 17.13 min Scan# 1334
Delta R.T. -0.01 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

**Instrument :**
BNA_F
**ClientSampleId :**
HP-CT-00DL

Tgt Ion:276 Resp: 110091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.3 | 18.6 | 28.0 |
| 138 | 28.6 | 25.4 | 38.0 |