Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF093016\
Data File : BF090329.D
Acq On : 30 Sep 2016 23:05
Operator : UM/SJ
Sample : H4982-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-10

Quant Time: Oct 03 13:24:54 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 30 23:14:34 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.46 | 152 | 124205 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 7.75 | 136 | 480807 | 20.00 | ng | | 0.00 |
| 38) Acenaphthene-d10 | 9.48 | 164 | 218688 | 20.00 | ng | | 0.00 |
| 63) Phenanthrene-d10 | 10.96 | 188 | 301897 | 20.00 | ng | | 0.01 |
| 75) Chrysene-d12 | 13.58 | 240 | 224556 | 20.00 | ng | | 0.01 |
| 86) Perylene-d12 | 14.90 | 264 | 166595 | 20.00 | ng | | 0.02 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.04 | 112 | 1073137 | 140.83 | ng | | 0.05 |
| 7) Phenol-d6 | 6.15 | 99 | 1497889 | 159.17 | ng | | 0.03 |
| 23) Nitrobenzene-d5 | 7.04 | 82 | 834191 | 100.57 | ng | | 0.01 |
| 41) 2,4,6-Tribromophenol | 10.28 | 330 | 251159 | 133.87 | ng | | 0.01 |
| 44) 2-Fluorobiphenyl | 8.83 | 172 | 1324830 | 118.93 | ng | | 0.01 |
| 78) Terphenyl-d14 | 12.55 | 244 | 807767 | 91.33 | ng | | 0.01 |
| **Target Compounds** | | | | | | | Qvalue |
| 48) Acenaphthylene | 9.35 | 152 | 38984 | 2.08 | ng | | 100 |
| 49) Dimethylphthalate | 9.23 | 163 | 449109 | 32.24 | ng | | 99 |
| 57) Fluorene | 10.03 | 166 | 24340 | 2.21 | ng | | 98 |
| 70) Phenanthrene | 10.98 | 178 | 224021 | 15.87 | ng | | 98 |
| 71) Anthracene | 11.03 | 178 | 71645 | 4.84 | ng | | 96 |
| 74) Fluoranthene | 12.16 | 202 | 350061 | 23.10 | ng | | 97 |
| 77) Pyrene | 12.39 | 202 | 339206 | 22.08 | ng | | 98 |
| 80) Benzo(a)anthracene | 13.57 | 228 | 176807 | 14.63 | ng | | 93 |
| 82) Chrysene | 13.60 | 228 | 130993m | 11.13 | ng | | |
| 85) Indeno(1,2,3-cd)pyrene | 16.06 | 276 | 64887 | 6.82 | ng | # | 92 |
| 87) Benzo(b)fluoranthene | 14.57 | 252 | 175210m | 18.99 | ng | | |
| 88) Benzo(k)fluoranthene | 14.58 | 252 | 38750m | 4.48 | ng | | |
| 89) Benzo(a)pyrene | 14.86 | 252 | 104657 | 12.06 | ng | # | 86 |
| 90) Dibenzo(a,h)anthracene | 16.07 | 278 | 16381m | 2.42 | ng | | |
| 91) Benzo(g,h,i)perylene | 16.40 | 276 | 64839 | 9.78 | ng | # | 95 |

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

Quantitation Report (LSC Reviewed)

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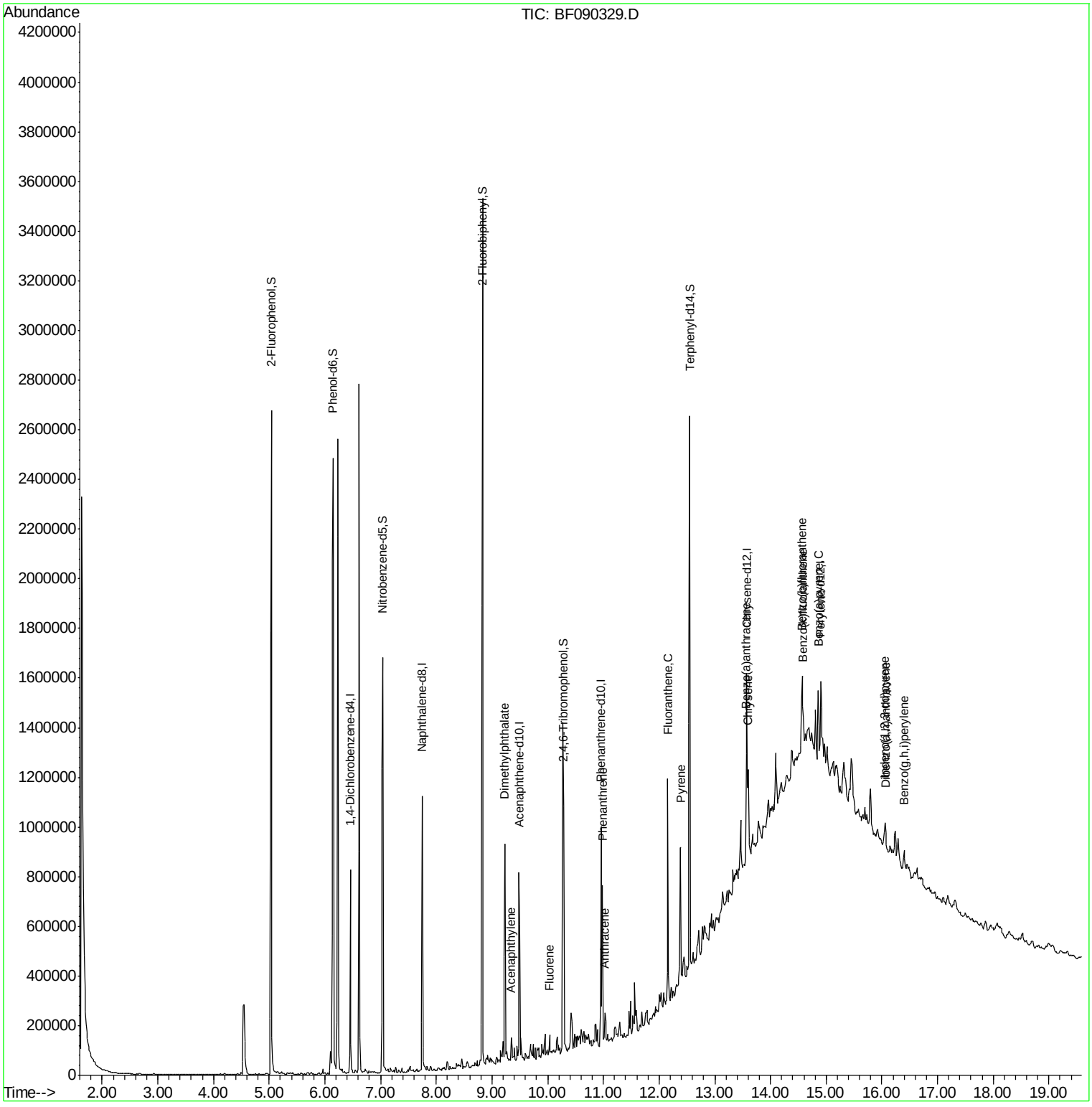
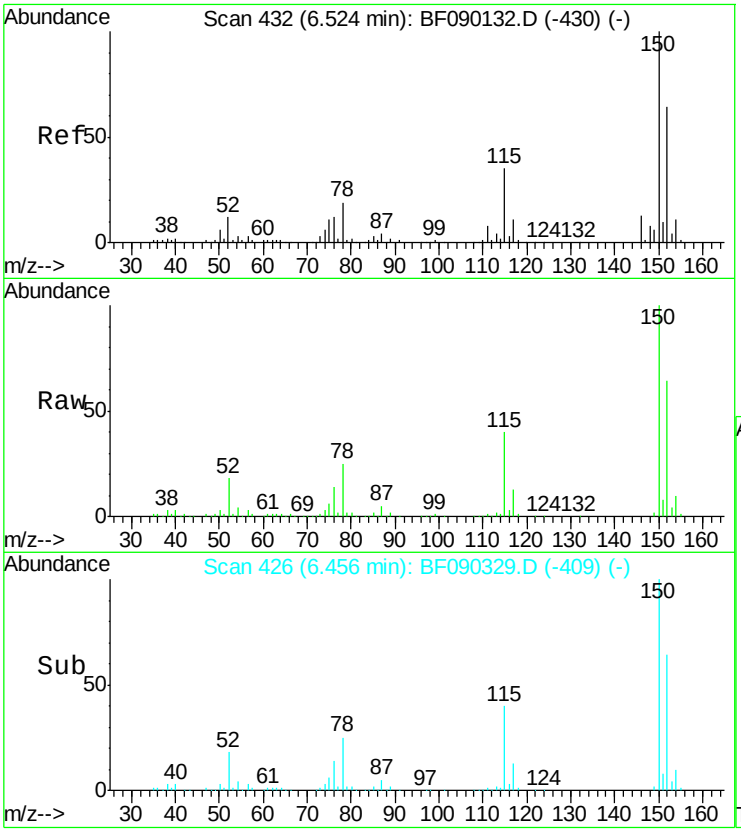
Sample : H4982-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
S-10

Quant Time: Oct 03 13:24:54 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 30 23:14:34 2016
Response via : Initial Calibration



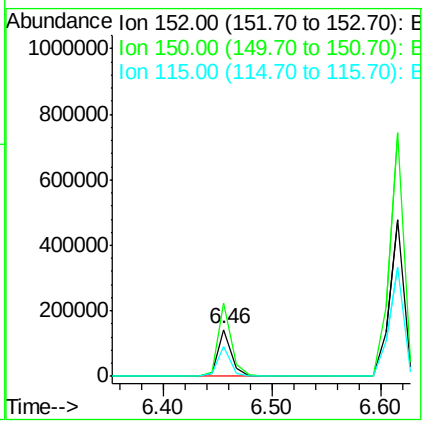


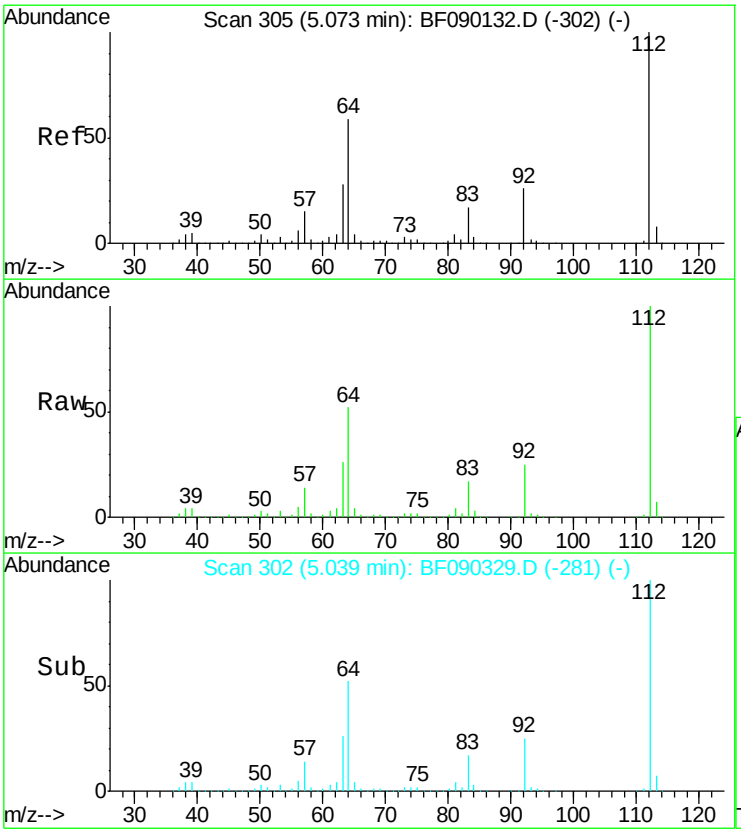

#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.46 min Scan# 426
Delta R.T. -0.00 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

**Instrument :**
BNA_F
**ClientSampleId :**
S-10

Tgt Ion:152 Resp: 124205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.3 | 128.9 | 193.3 |
| 115 | 63.2 | 55.5 | 83.3 |

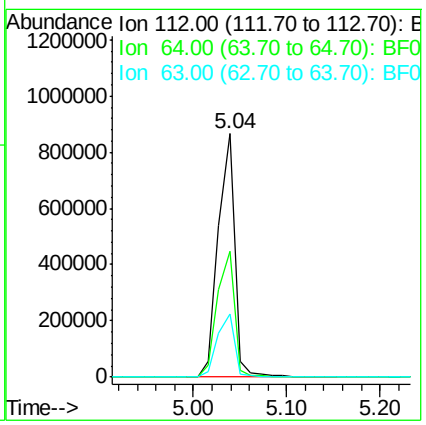


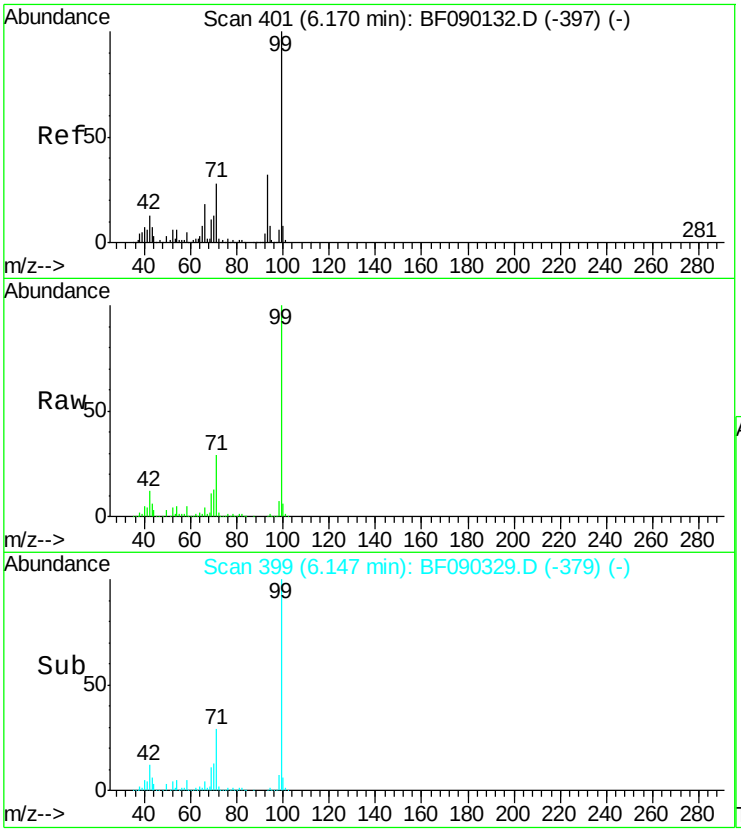




#5
2-Fluorophenol
Concen: 140.83 ng
RT: 5.04 min Scan# 302
Delta R.T. 0.05 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

Tgt Ion:112 Resp: 1073137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.7 | 39.8 | 59.6 |
| 63 | 25.8 | 18.9 | 28.3 |



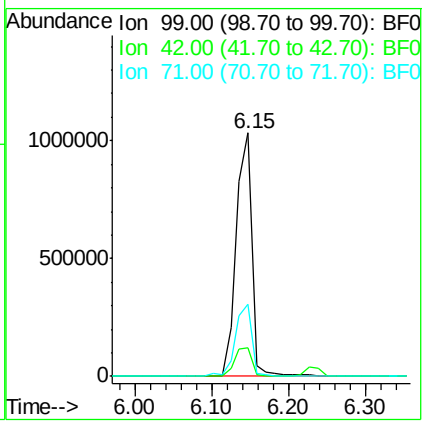


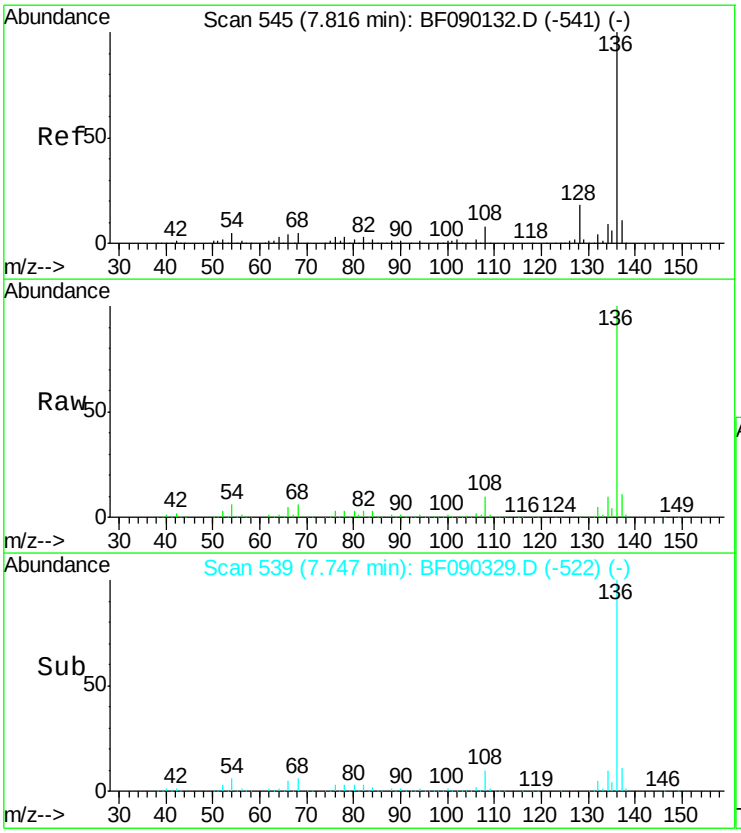

#7
Phenol-d6
Concen: 159.17 ng
RT: 6.15 min Scan# 399
Delta R.T. 0.03 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

**Instrument :**
BNA_F
**ClientSampleId :**
S-10

Tgt Ion: 99 Resp: 1497889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 11.7 | 10.6 | 15.8 |
| 71 | 29.4 | 23.0 | 34.6 |

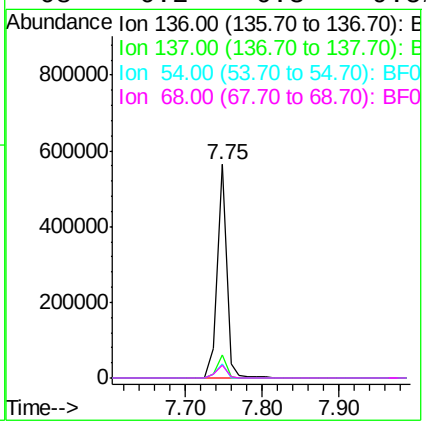


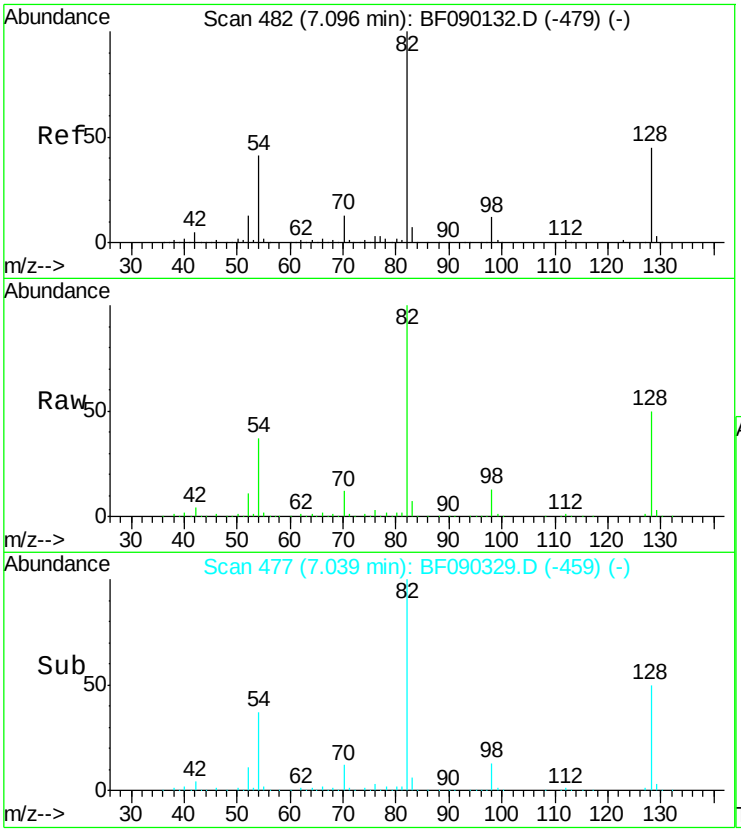




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.75 min Scan# 539
Delta R.T. -0.00 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

Tgt Ion:136 Resp: 480807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.9 | 9.0 | 13.4 |
| 54 | 6.4 | 6.4 | 9.6 |
| 68 | 6.2 | 6.3 | 9.5# |



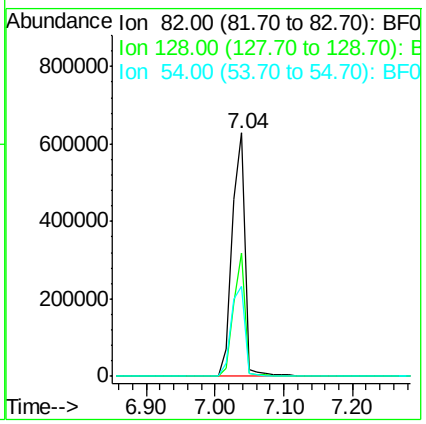


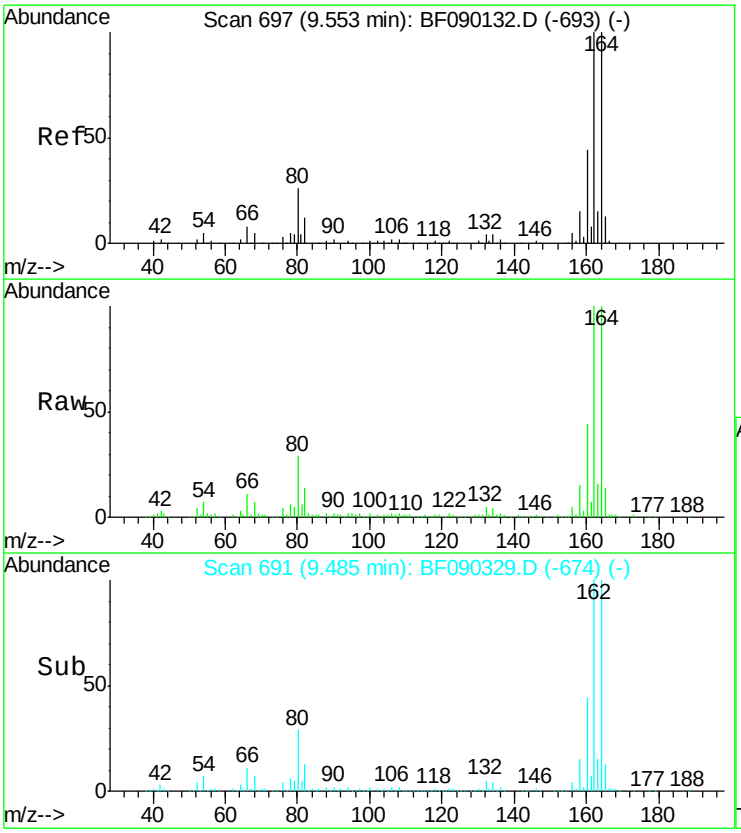

#23
Nitrobenzene-d5
Concen: 100.57 ng
RT: 7.04 min Scan# 477
Delta R.T. 0.01 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

**Instrument :**
BNA_F
**ClientSampleId :**
S-10

Tgt Ion: 82 Resp: 834191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 50.5 | 37.5 | 56.3 |
| 54 | 36.8 | 31.9 | 47.9 |

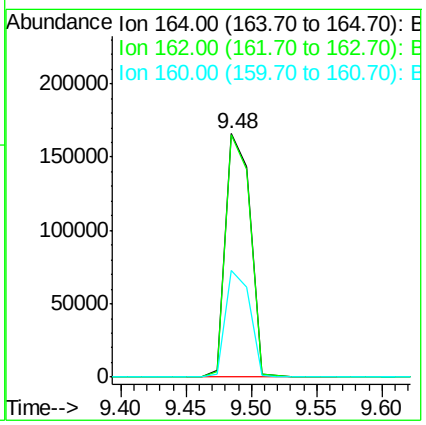


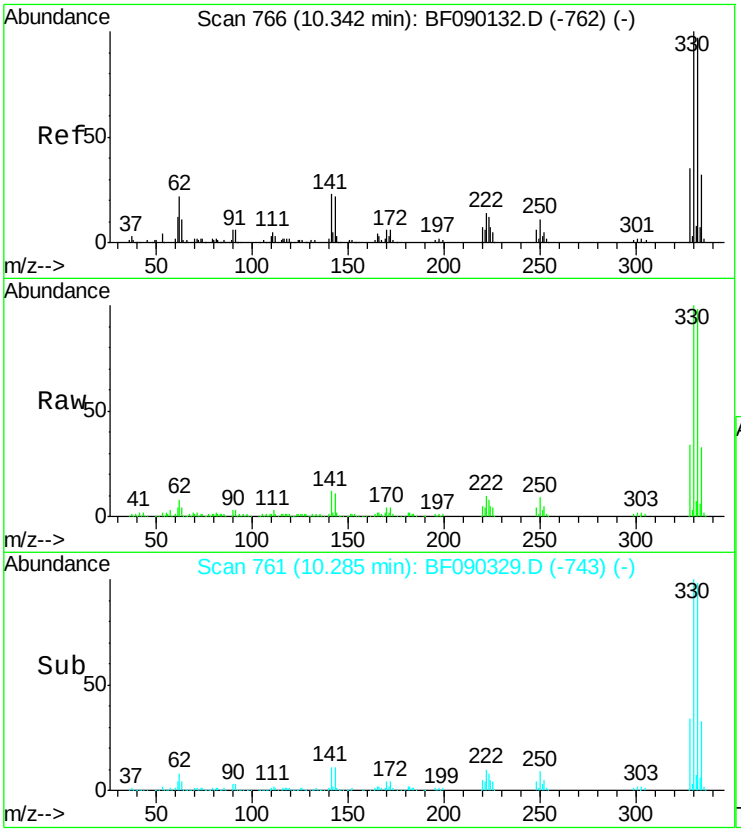




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.48 min Scan# 691
Delta R.T. -0.00 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

Tgt Ion:164 Resp: 218688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 99.5 | 81.4 | 122.2 |
| 160 | 44.0 | 36.6 | 54.8 |



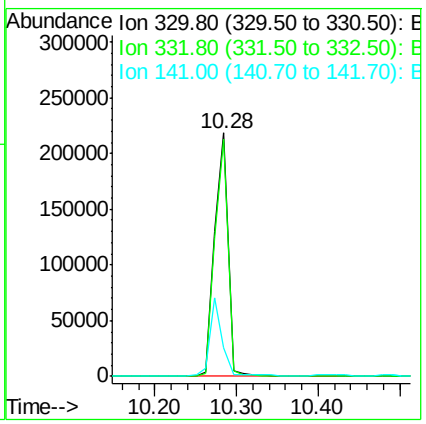


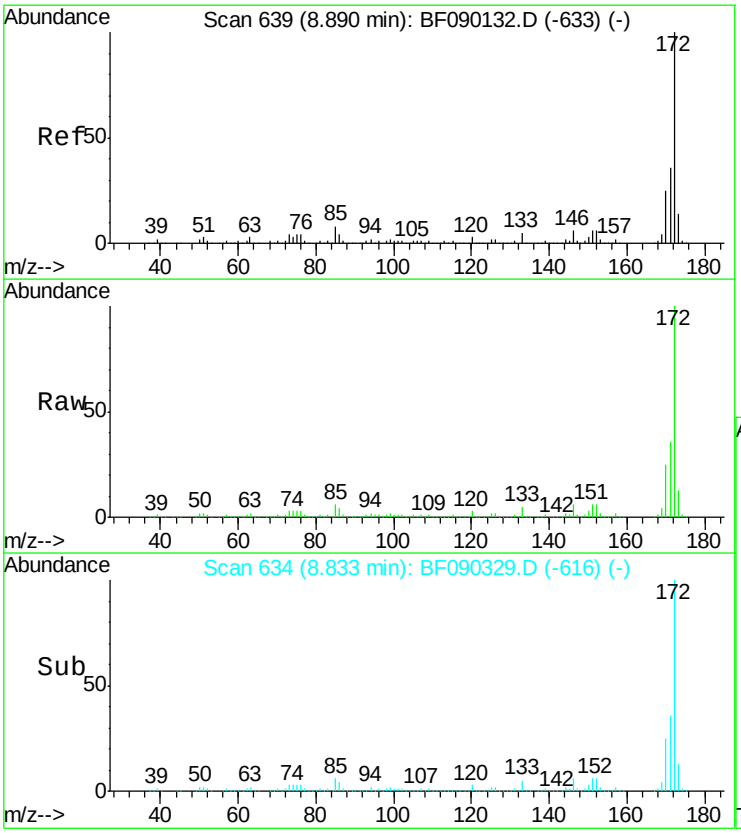

#41
2,4,6-Tribromophenol
Concen: 133.87 ng
RT: 10.28 min Scan# 761
Delta R.T. 0.01 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

**Instrument :**
BNA_F
**ClientSampleId :**
S-10

Tgt Ion:330 Resp: 251159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.3 | 78.1 | 117.1 |
| 141 | 29.0 | 23.9 | 35.9 |

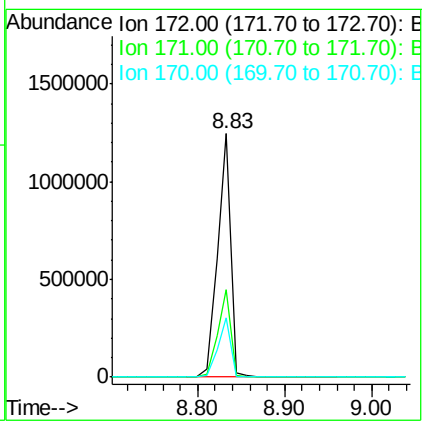


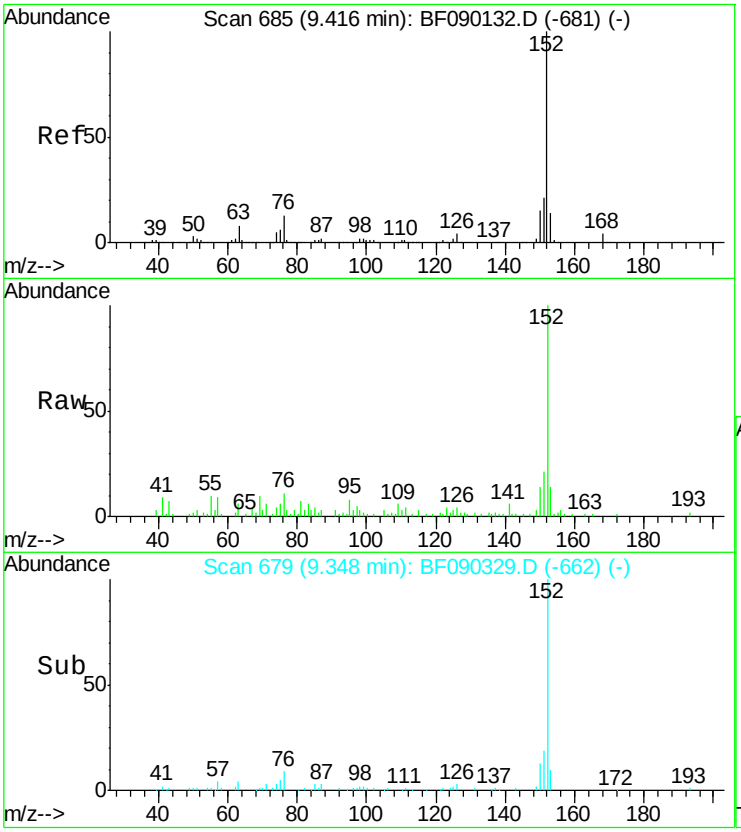




#44
2-Fluorobiphenyl
Concen: 118.93 ng
RT: 8.83 min Scan# 634
Delta R.T. 0.01 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

Tgt Ion:172 Resp: 1324830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.1 | 29.2 | 43.8 |
| 170 | 24.6 | 19.8 | 29.8 |



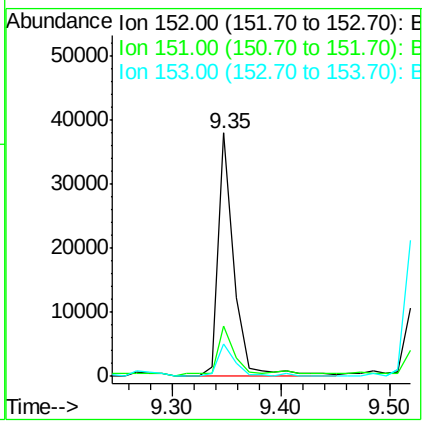


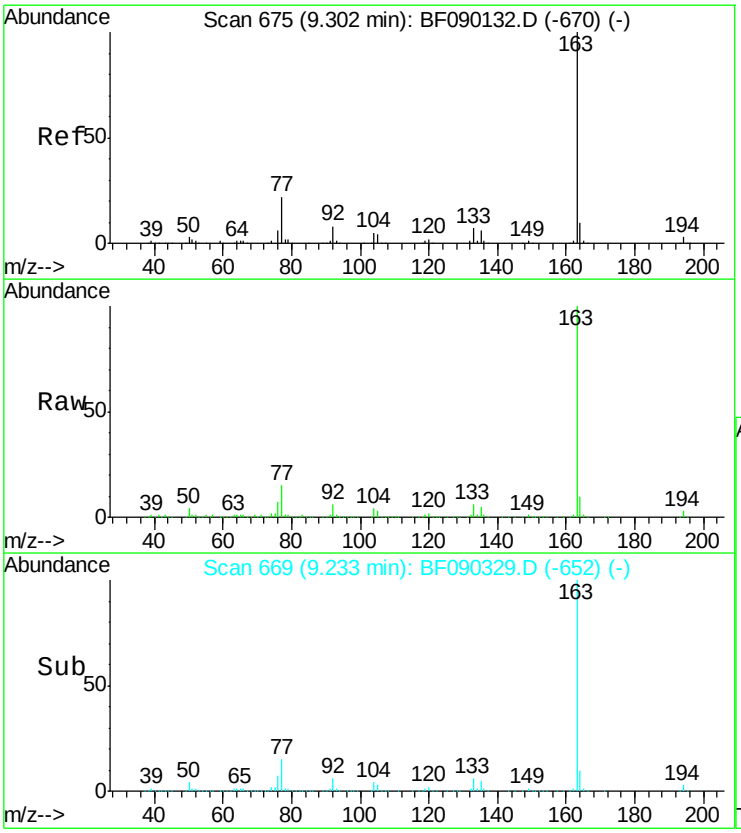

#48
Acenaphthylene
Concen: 2.08 ng
RT: 9.35 min Scan# 679
Delta R.T. -0.00 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

**Instrument :**
BNA_F
**ClientSampleId :**
S-10

Tgt Ion:152 Resp: 38984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.7 | 16.5 | 24.7 |
| 153 | 13.5 | 10.6 | 15.8 |

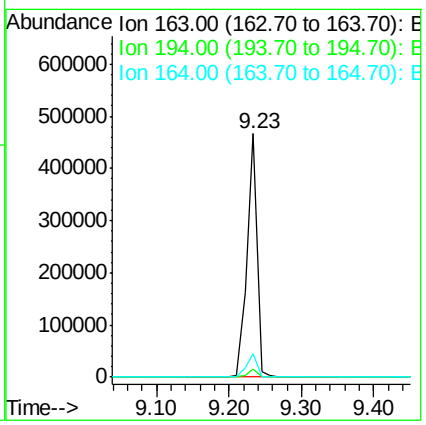


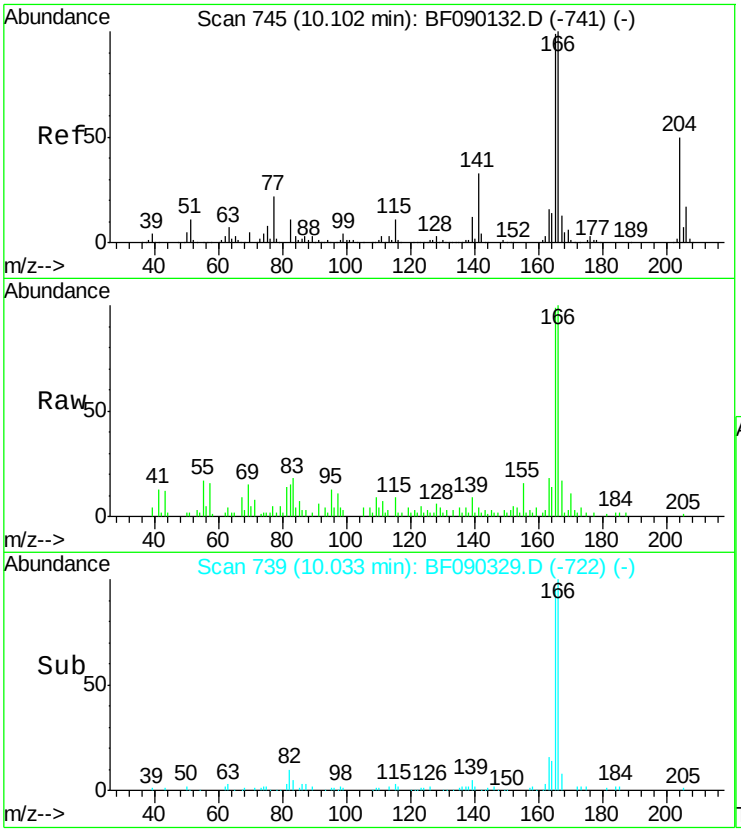




#49
Dimethylphthalate
Concen: 32.24 ng
RT: 9.23 min Scan# 669
Delta R.T. -0.00 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

Tgt Ion:163 Resp: 449109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.4 | 2.8 | 4.2 |
| 164 | 9.7 | 8.1 | 12.1 |



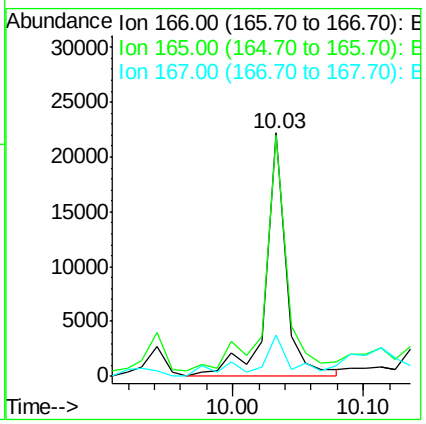


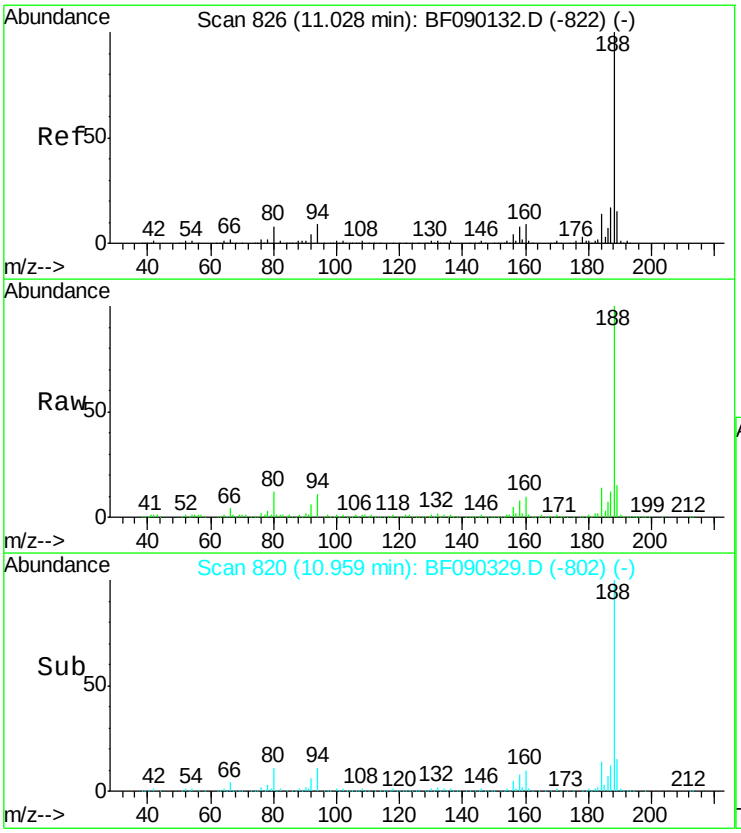

#57
Fluorene
Concen: 2.21 ng
RT: 10.03 min Scan# 739
Delta R.T. -0.00 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

**Instrument :**
BNA_F
**ClientSampleId :**
S-10

Tgt Ion:166 Resp: 24340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.2 | 78.5 | 117.7 |
| 167 | 16.8 | 11.2 | 16.8 |

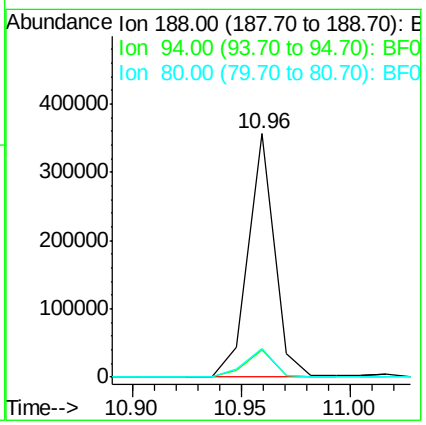


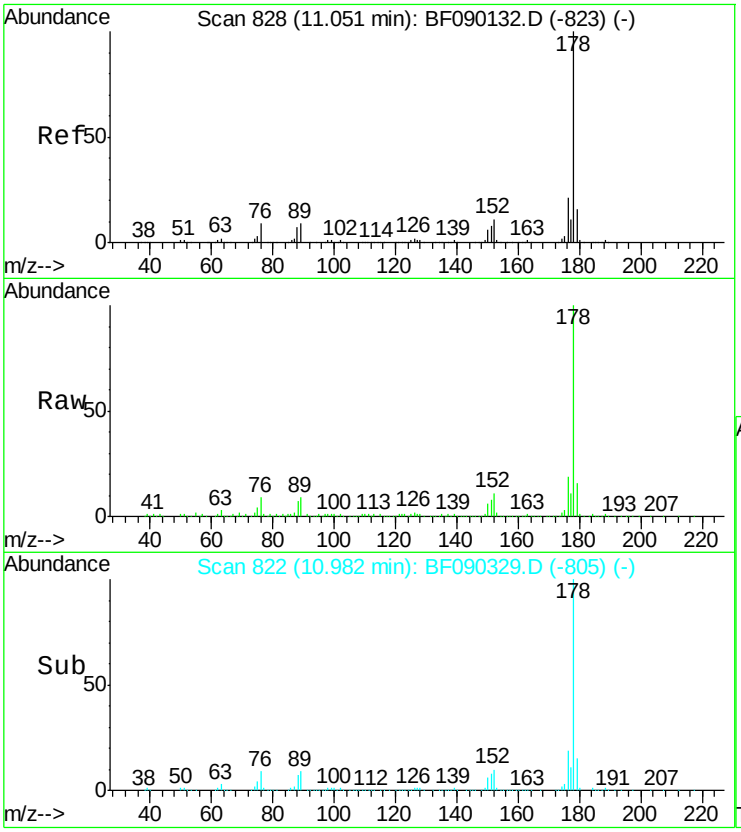




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 10.96 min Scan# 820
Delta R.T. 0.01 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

Tgt Ion:188 Resp: 301897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 11.3 | 10.5 | 15.7 |
| 80 | 11.6 | 11.2 | 16.8 |



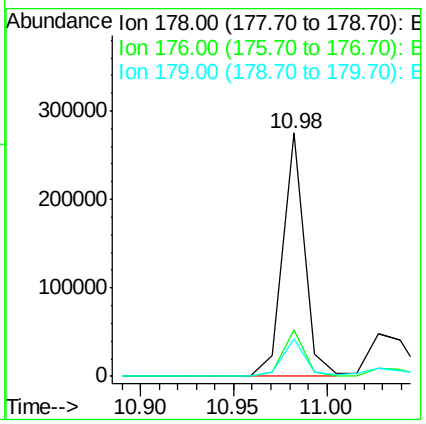


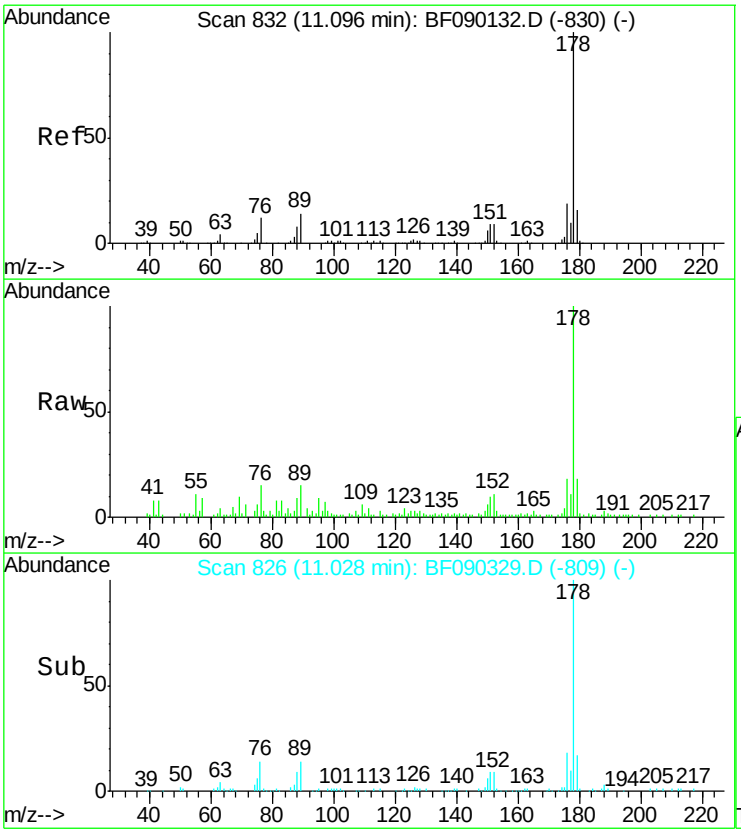

#70
Phenanthrene
Concen: 15.87 ng
RT: 10.98 min Scan# 822
Delta R.T. -0.00 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

**Instrument :**
BNA_F
**ClientSampleId :**
S-10

Tgt Ion:178 Resp: 224021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.1 | 15.9 | 23.9 |
| 179 | 15.5 | 12.9 | 19.3 |

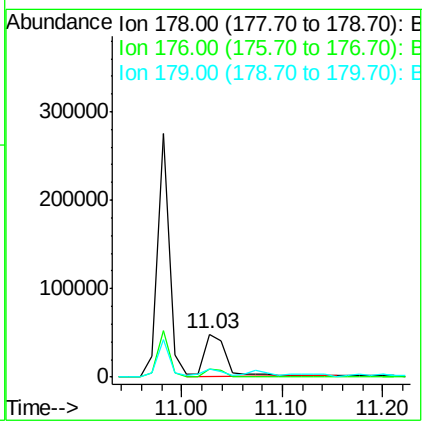


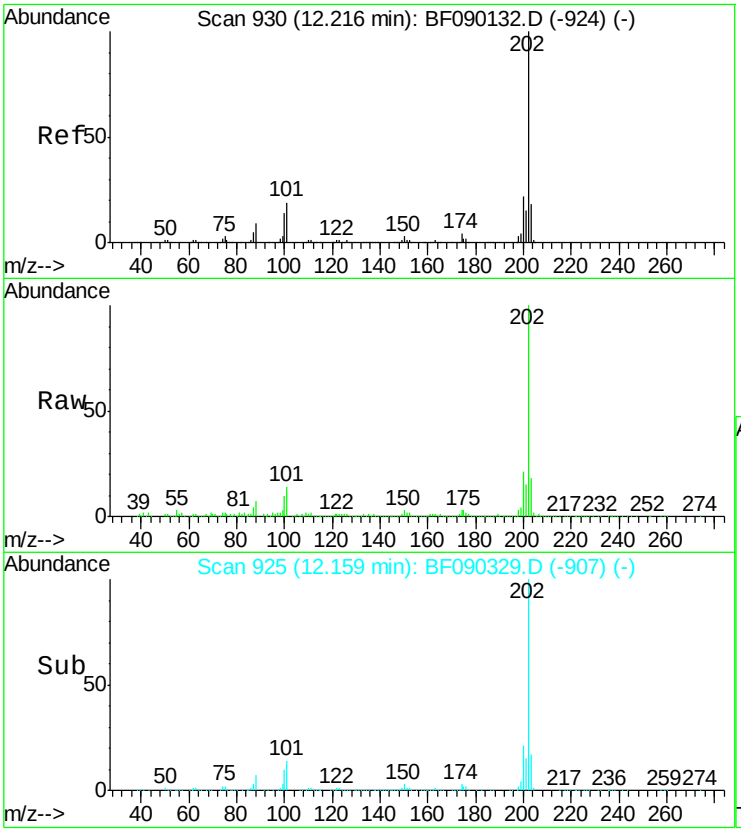




#71
Anthracene
Concen: 4.84 ng
RT: 11.03 min Scan# 826
Delta R.T. -0.00 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

Tgt Ion:178 Resp: 71645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.3 | 15.8 | 23.6 |
| 179 | 18.1 | 12.6 | 19.0 |



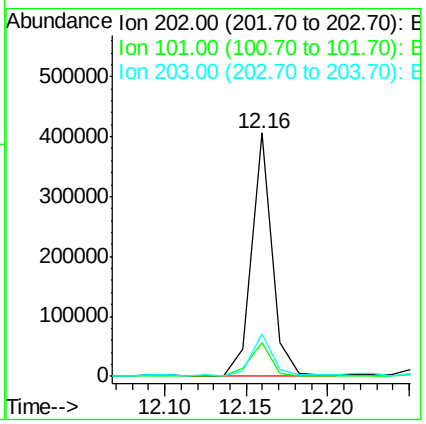


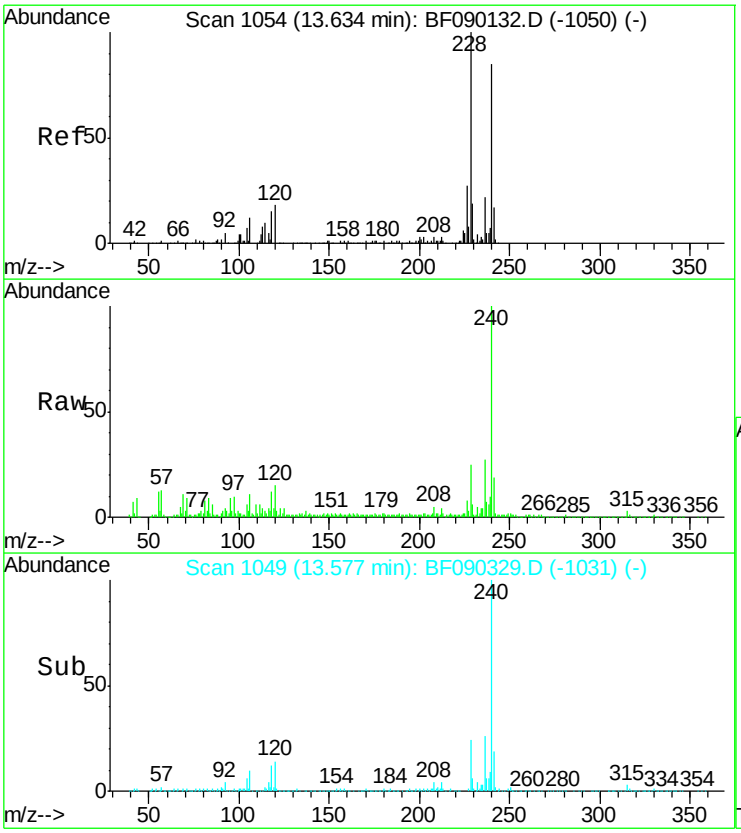

#74
Fluoranthene
Concen: 23.10 ng
RT: 12.16 min Scan# 925
Delta R.T. 0.01 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

**Instrument :**
BNA_F
**ClientSampleId :**
S-10

Tgt Ion:202 Resp: 350061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.9 | 0.0 | 36.1 |
| 203 | 17.6 | 0.0 | 38.2 |

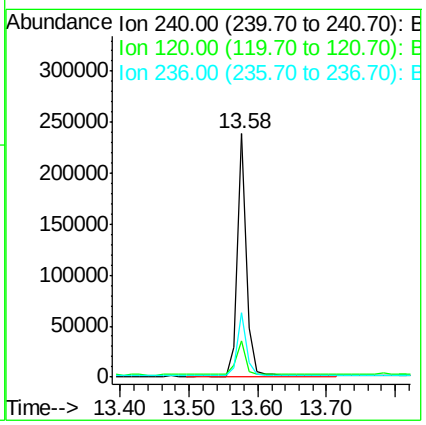


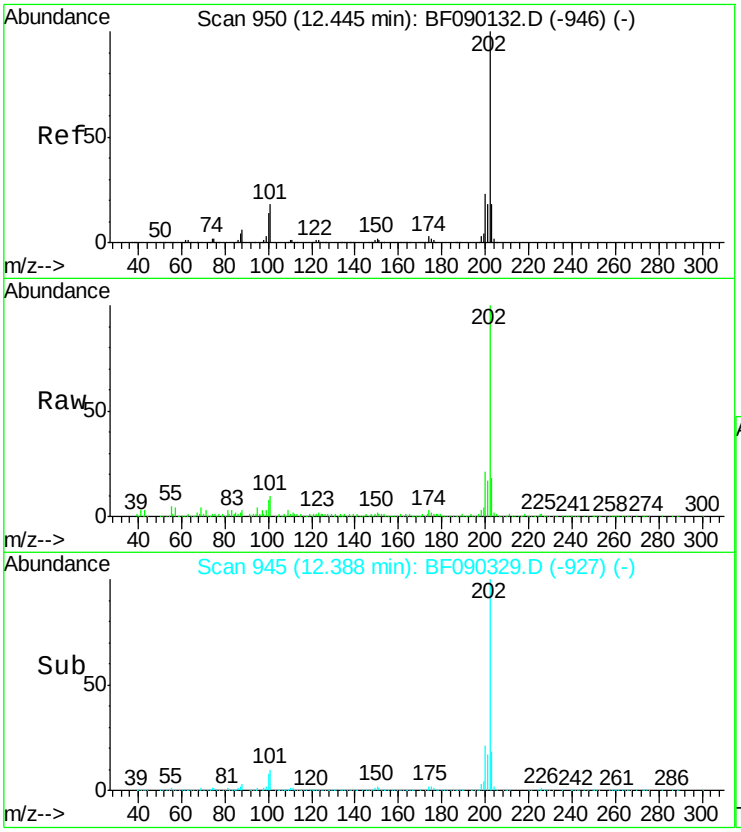




#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.58 min Scan# 1049
Delta R.T. 0.01 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

Tgt Ion:240 Resp: 224556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.9 | 10.6 | 16.0 |
| 236 | 26.5 | 21.6 | 32.4 |



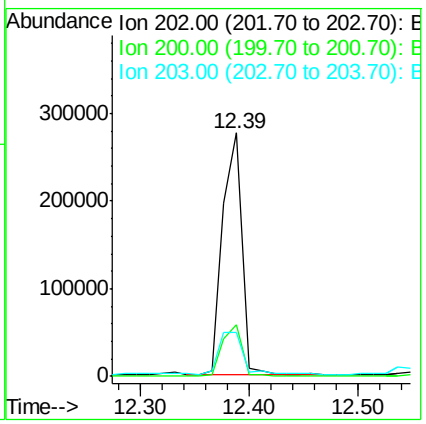


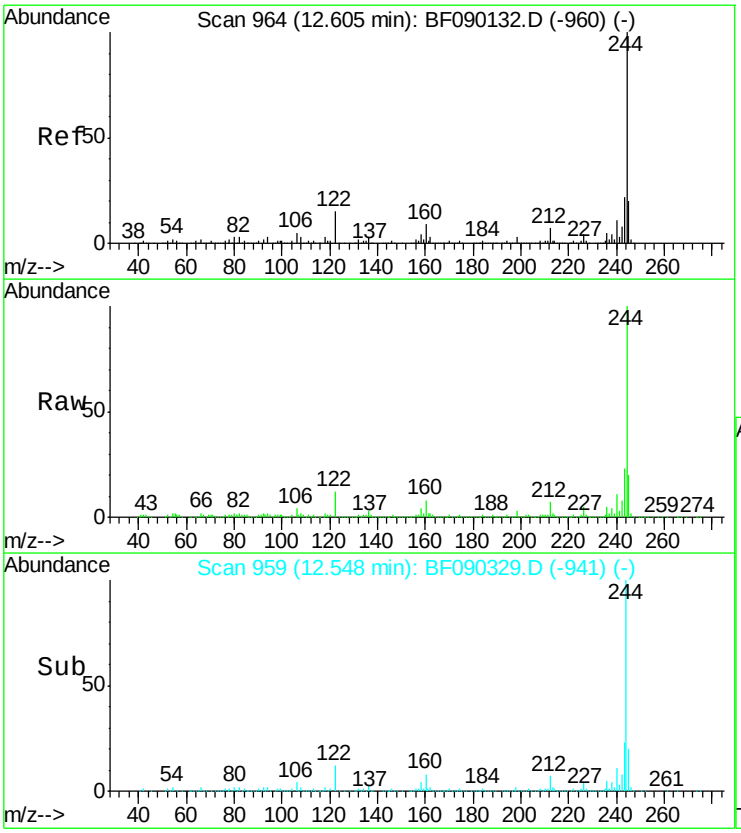

#77
Pyrene
Concen: 22.08 ng
RT: 12.39 min Scan# 945
Delta R.T. 0.01 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

**Instrument :**
BNA_F
**ClientSampleId :**
S-10

Tgt Ion:202 Resp: 339206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 17.9 | 26.9 |
| 203 | 17.9 | 14.2 | 21.4 |

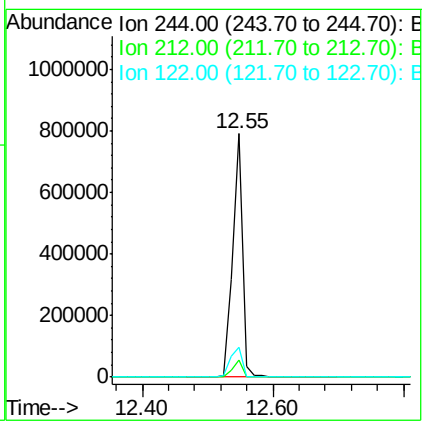


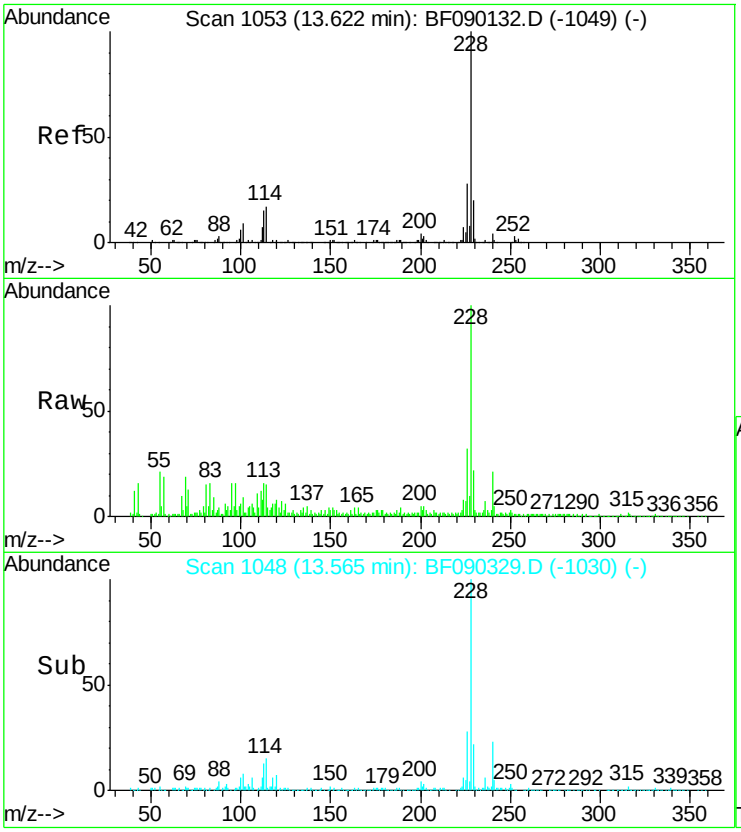




#78
Terphenyl-d14
Concen: 91.33 ng
RT: 12.55 min Scan# 959
Delta R.T. 0.01 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

Tgt Ion:244 Resp: 807767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.3 | 5.8 | 8.8 |
| 122 | 12.4 | 9.4 | 14.0 |



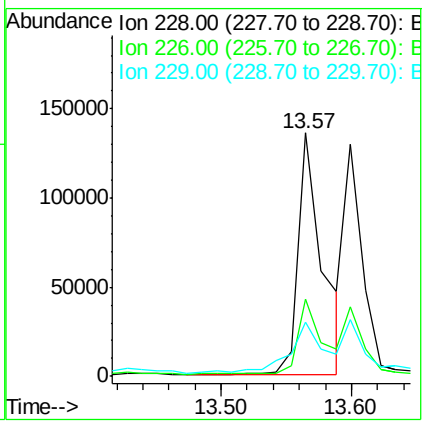


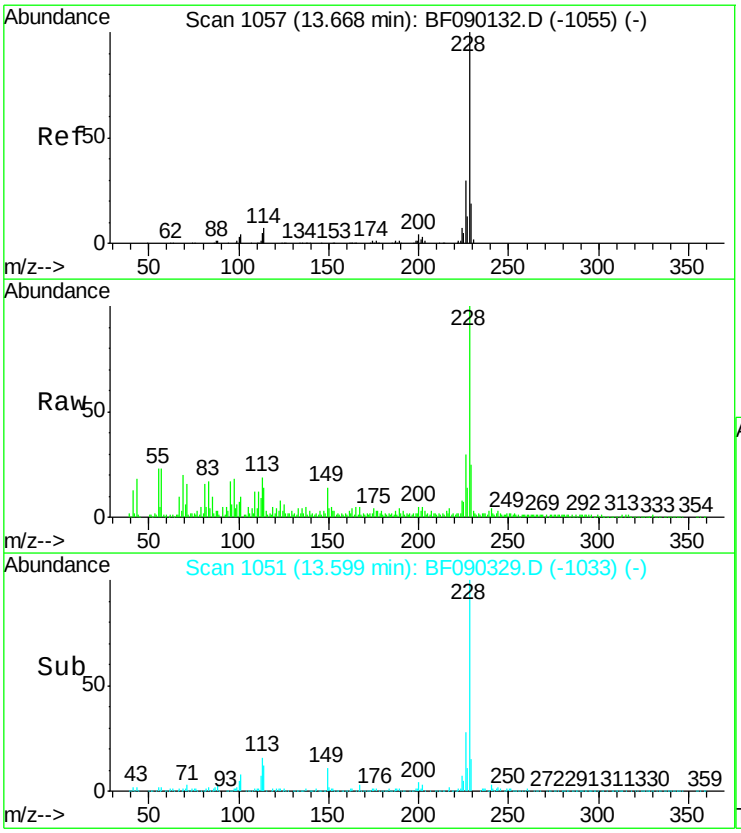

#80
Benzo(a)anthracene
Concen: 14.63 ng
RT: 13.57 min Scan# 1048
Delta R.T. 0.01 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

**Instrument :**
BNA_F
**ClientSampleId :**
S-10

Tgt Ion:228 Resp: 176807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.9 | 22.0 | 33.0 |
| 229 | 22.4 | 16.2 | 24.2 |

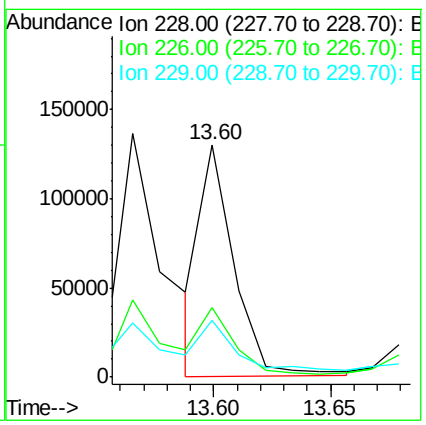


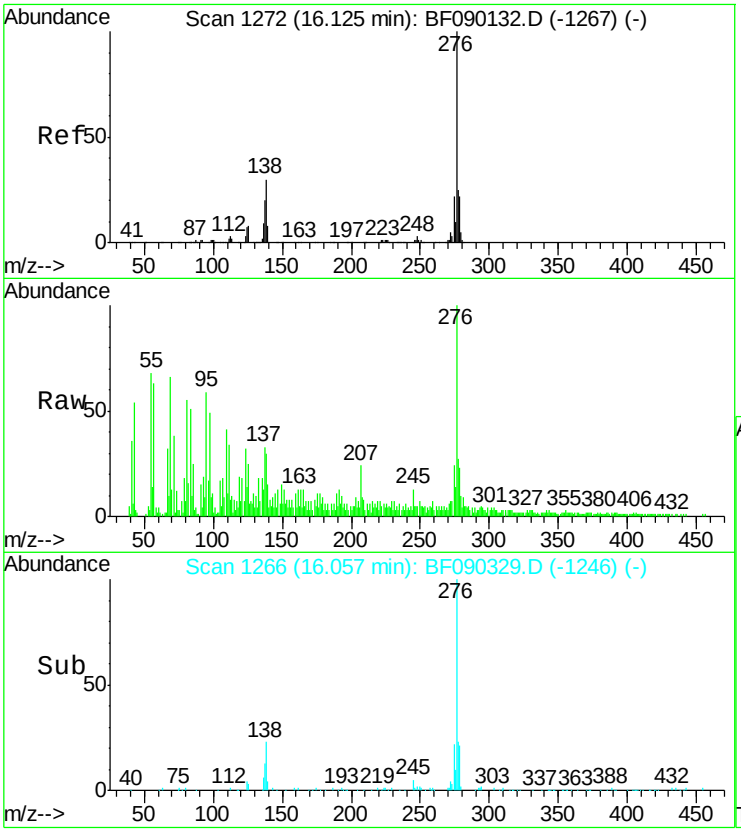




#82
Chrysene
Concen: 11.13 ng m
RT: 13.60 min Scan# 1051
Delta R.T. 0.01 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

Tgt Ion:228 Resp: 130993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.2 | 24.6 | 37.0 |
| 229 | 24.6 | 16.2 | 24.4# |



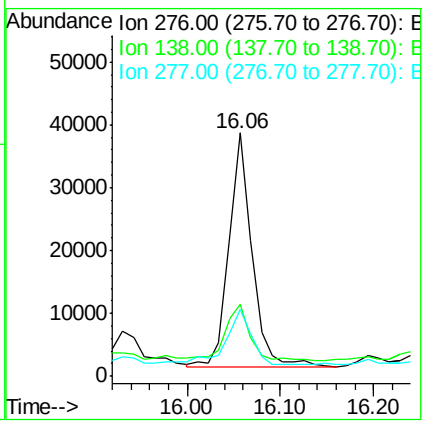


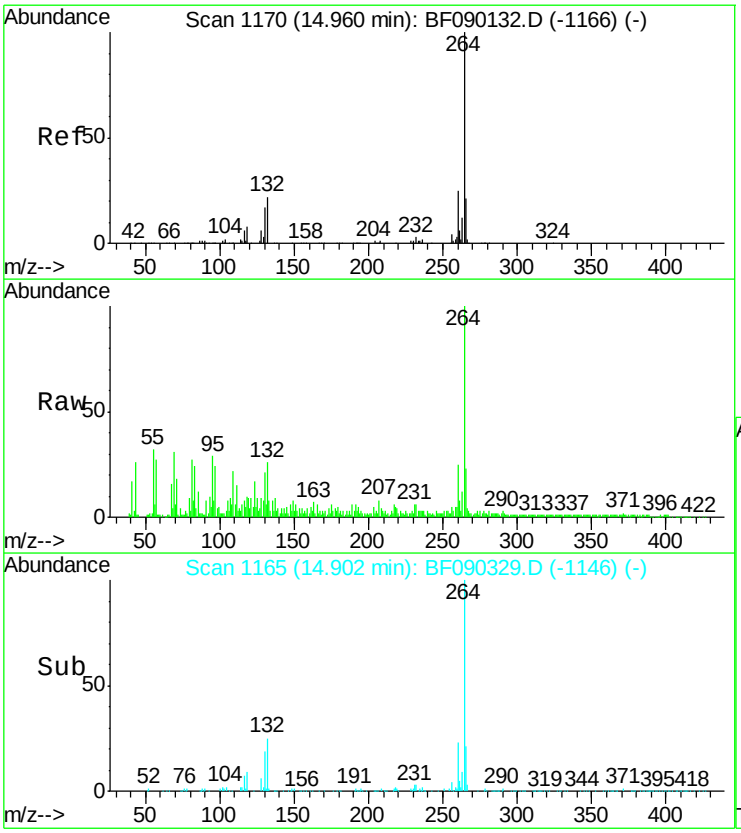

#85
Indeno(1,2,3-cd)pyrene
Concen: 6.82 ng
RT: 16.06 min Scan# 1266
Delta R.T. 0.03 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

**Instrument :**
BNA_F
**ClientSampleId :**
S-10

Tgt Ion:276 Resp: 64887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.5 | 25.9 | 38.9# |
| 277 | 26.0 | 19.9 | 29.9 |

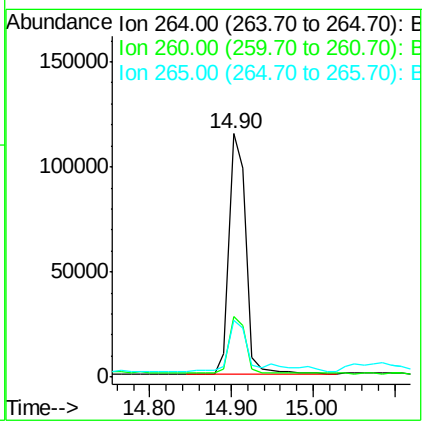


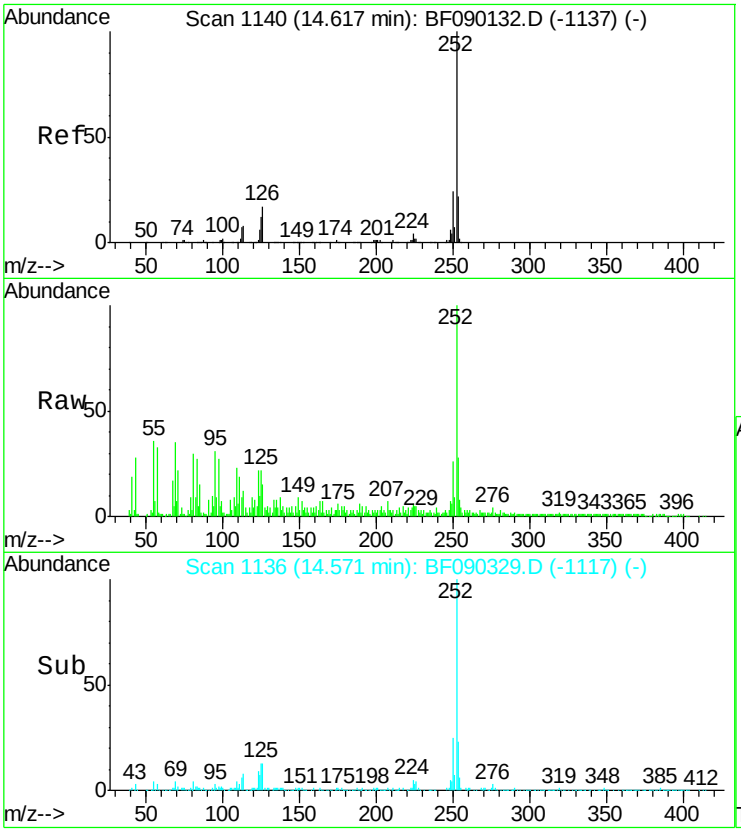




#86
Perylene-d12
Concen: 20.00 ng
RT: 14.90 min Scan# 1165
Delta R.T. 0.02 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

Tgt Ion:264 Resp: 166595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.9 | 19.5 | 29.3 |
| 265 | 23.3 | 17.0 | 25.4 |



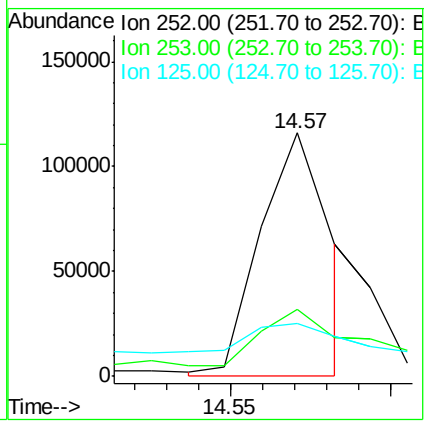


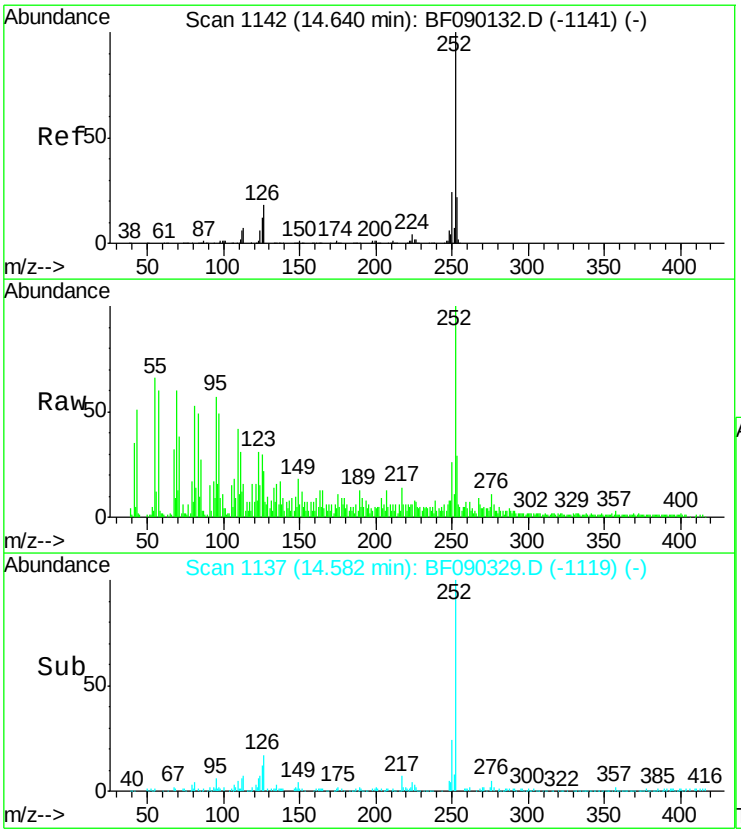

#87
Benzo(b)fluoranthene
Concen: 18.99 ng m
RT: 14.57 min Scan# 1136
Delta R.T. 0.02 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

**Instrument :**
BNA_F
**ClientSampleId :**
S-10

Tgt Ion:252 Resp: 175210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.8 | 17.9 | 26.9# |
| 125 | 21.6 | 12.7 | 19.1# |

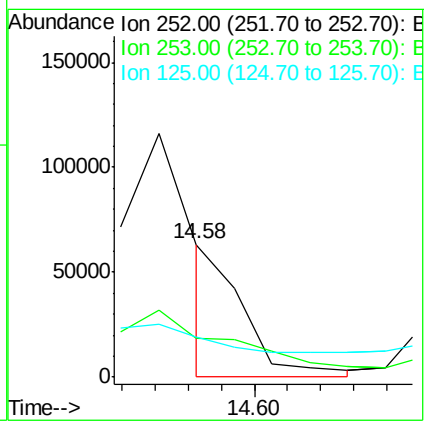


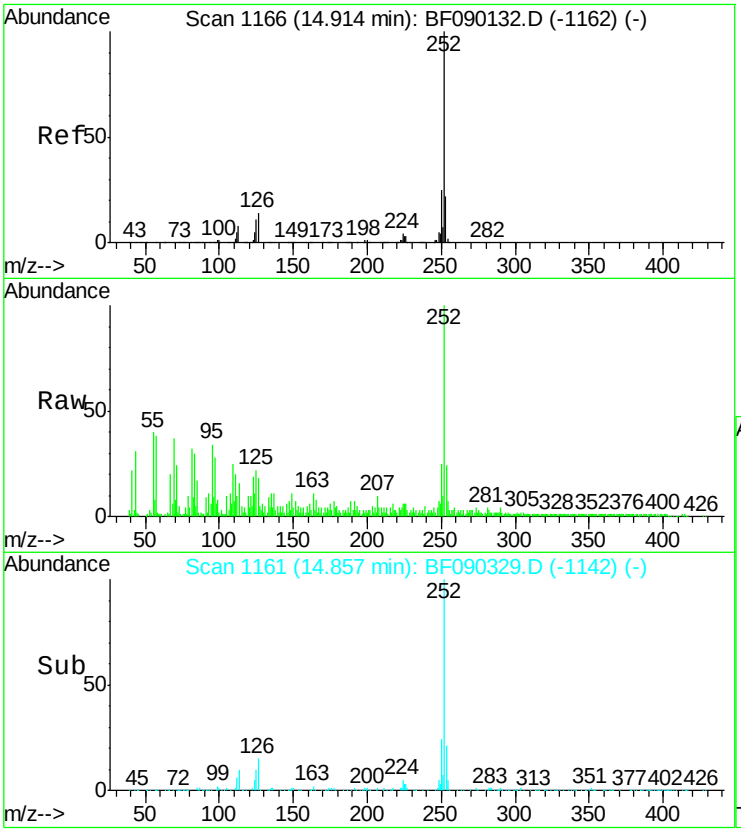




#88
Benzo(k)fluoranthene
Concen: 4.48 ng m
RT: 14.58 min Scan# 1137
Delta R.T. 0.01 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

Tgt Ion:252 Resp: 38750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.4 | 17.8 | 26.8# |
| 125 | 30.1 | 7.8 | 11.6# |



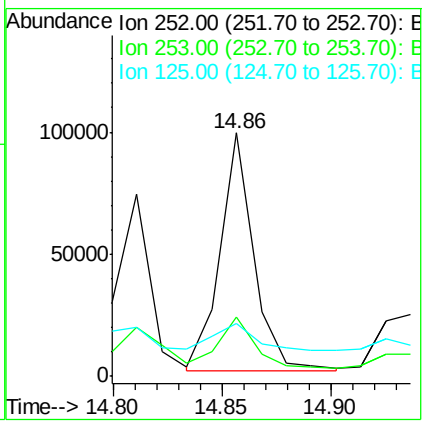


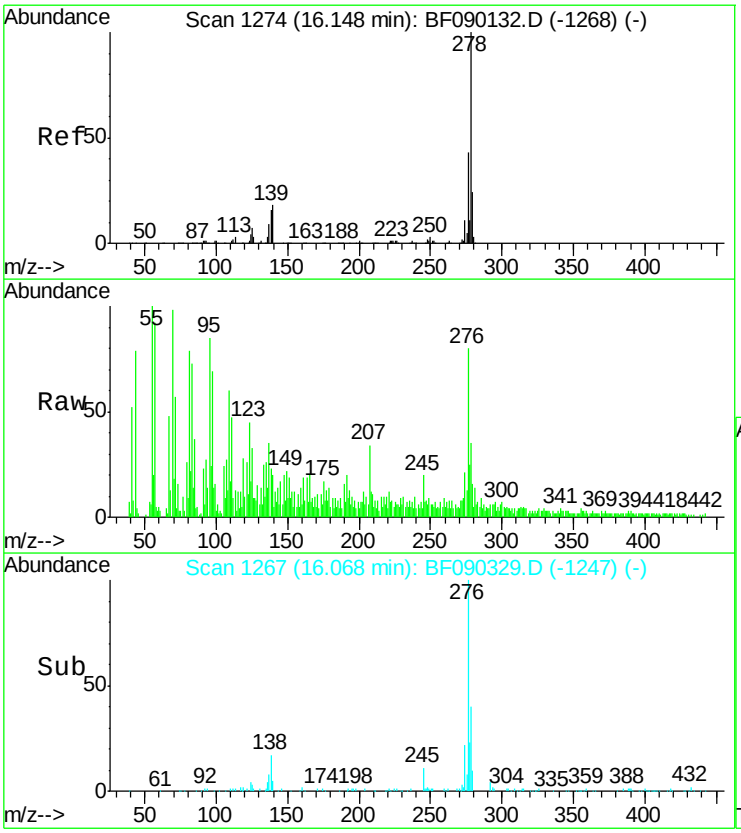

#89
Benzo(a)pyrene
Concen: 12.06 ng
RT: 14.86 min Scan# 1161
Delta R.T. 0.02 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

**Instrument :**
BNA_F
**ClientSampleId :**
S-10

Tgt Ion:252 Resp: 104657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.5 | 17.4 | 26.0 |
| 125 | 21.9 | 7.7 | 11.5# |

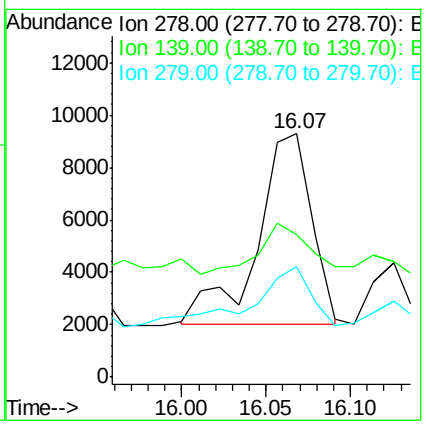


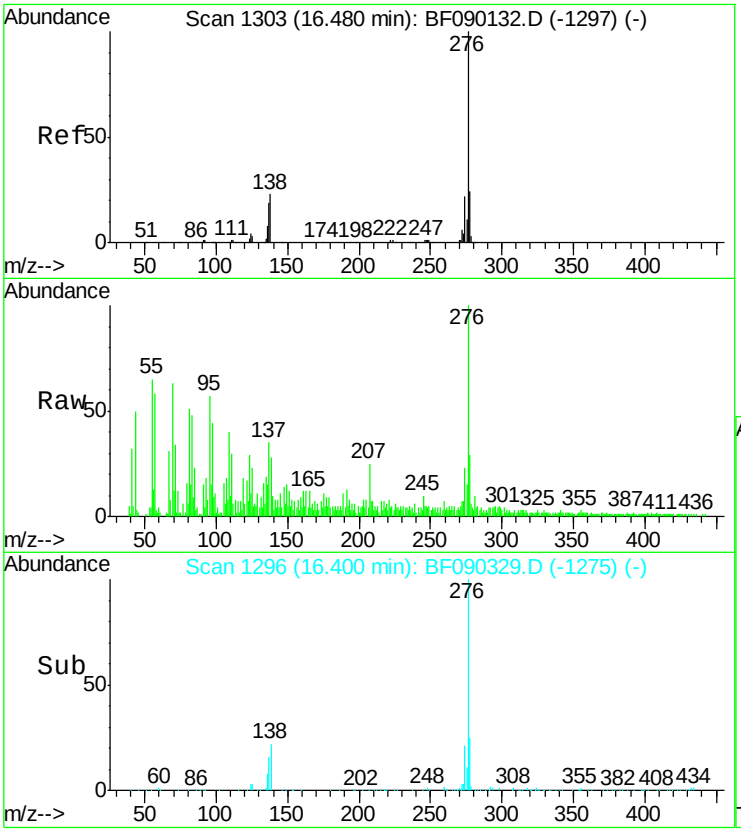




#90
Dibenzo(a,h)anthracene
Concen: 2.42 ng m
RT: 16.07 min Scan# 1267
Delta R.T. 0.03 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

Tgt Ion:278 Resp: 16381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 58.7 | 14.6 | 21.8# |
| 279 | 45.5 | 18.8 | 28.2# |






#91
Benzo(g,h,i)perylene
Concen: 9.78 ng
RT: 16.40 min Scan# 1296
Delta R.T. 0.05 min
Lab File: BF090329.D
Acq: 30 Sep 2016 23:05

**Instrument :**
BNA_F
**ClientSampleId :**
S-10

Tgt Ion:276 Resp: 64839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 28.6 | 18.9 | 28.3# |
| 138 | 28.4 | 23.3 | 34.9 |