Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041317\
Data File : BF094420.D
Acq On : 14 Apr 2017 9:06
Operator : SJ/MA
Sample : I2672-03DL 200X
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** E2-Z9-ESWDL

Quant Time: Apr 14 10:24:25 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 14 01:21:26 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 5.79 | 152 | 132064 | 20.00 | ng | -0.04 |
| 21) Naphthalene-d8 | 7.29 | 136 | 513729 | 20.00 | ng | -0.05 |
| 38) Acenaphthene-d10 | 9.42 | 164 | 215974 | 20.00 | ng | -0.05 |
| 63) Phenanthrene-d10 | 11.24 | 188 | 333481 | 20.00 | ng | -0.05 |
| 75) Chrysene-d12 | 14.49 | 240 | 258849 | 20.00 | ng | -0.06 |
| 86) Perylene-d12 | 16.12 | 264 | 195925 | 20.00 | ng | -0.06 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 4.34 | 112 | 376 | 0.05 | ng | -0.04 |
| 7) Phenol-d6 | 5.42 | 99 | 579 | 0.06 | ng | -0.05 |
| 23) Nitrobenzene-d5 | 6.43 | 82 | 795 | 0.09 | ng | -0.06 |
| 41) 2,4,6-Tribromophenol | 0.00 | 330 | 0 | 0.00 | ng | |
| 44) 2-Fluorobiphenyl | 8.60 | 172 | 1695 | 0.12 | ng | -0.05 |
| 78) Terphenyl-d14 | 13.22 | 244 | 963 | 0.08 | ng | -0.06 |
| **Target Compounds** | | | | | | Qvalue |
| 31) Naphthalene | 7.31 | 128 | 76942 | 3.11 | ng | 98 |
| 37) 2-Methylnaphthalene | 8.15 | 142 | 96369 | 5.85 | ng | 98 |
| 51) Acenaphthene | 9.46 | 154 | 44828 | 3.39 | ng | 97 |
| 54) Dibenzofuran | 9.67 | 168 | 48150 | 2.67 | ng | 99 |
| 57) Fluorene | 10.10 | 166 | 45667 | 3.06 | ng | 95 |
| 70) Phenanthrene | 11.27 | 178 | 165483 | 8.92 | ng | 98 |
| 74) Fluoranthene | 12.73 | 202 | 69790 | 3.67 | ng | 99 |
| 77) Pyrene | 13.01 | 202 | 49505 | 2.64 | ng | 98 |

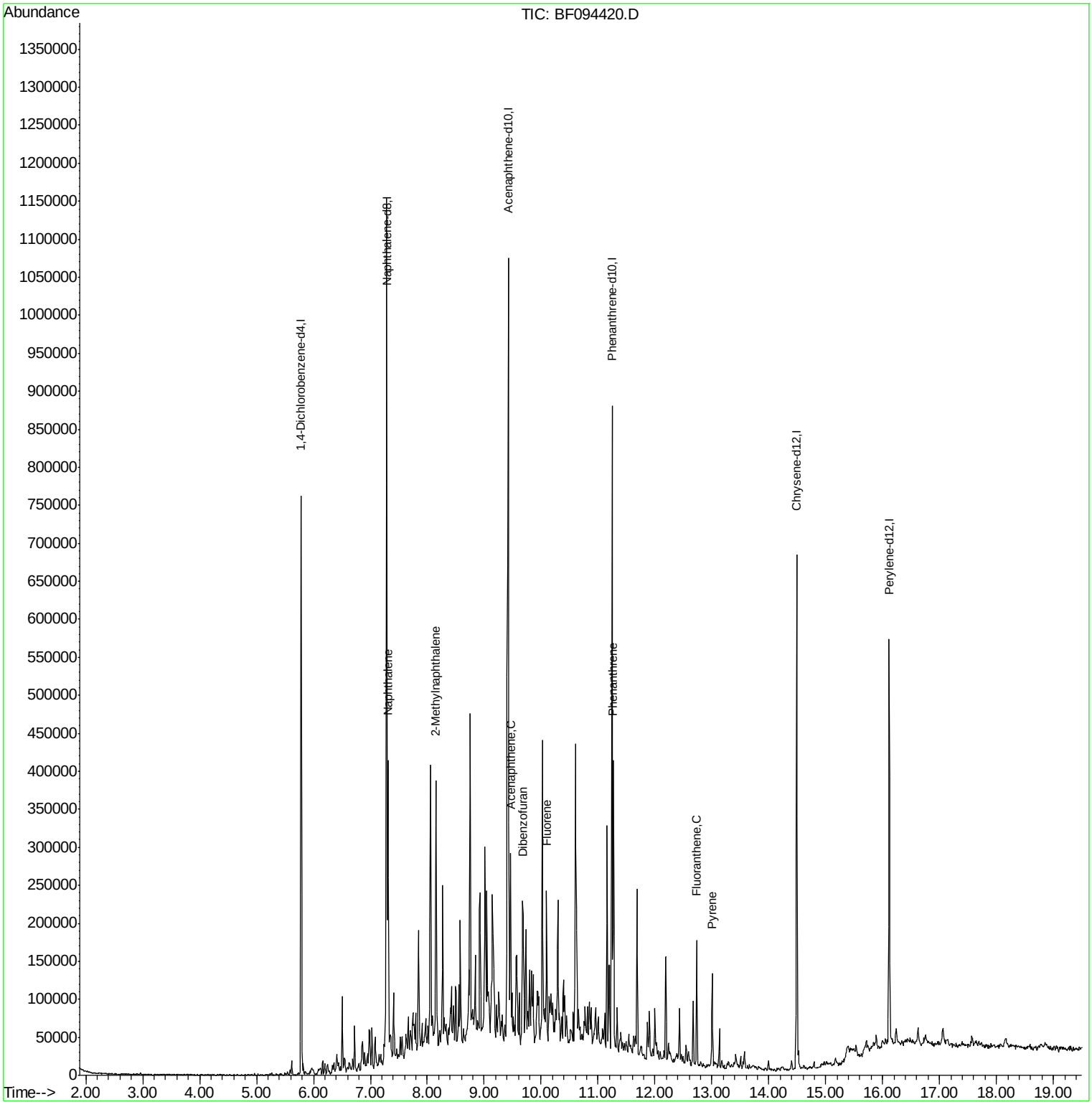
(#) = qualifier out of range (m) = manual integration (+) = signals summed

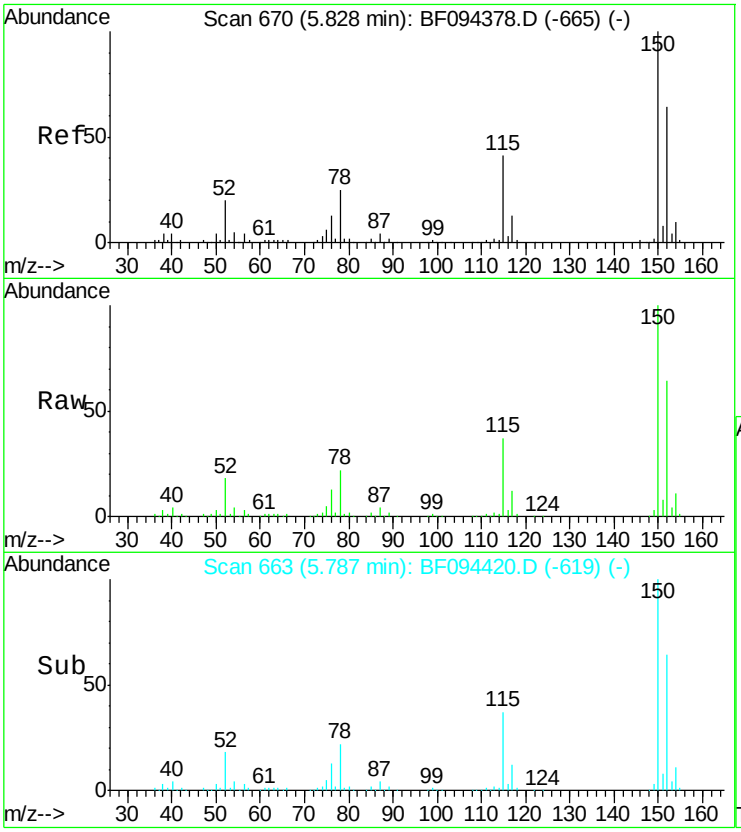
Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041317\
Data File : BF094420.D
Acq On : 14 Apr 2017 9:06
Operator : SJ/MA
Sample : I2672-03DL 200X
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
E2-Z9-ESWDL

Quant Time: Apr 14 10:24:25 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 14 01:21:26 2017
Response via : Initial Calibration



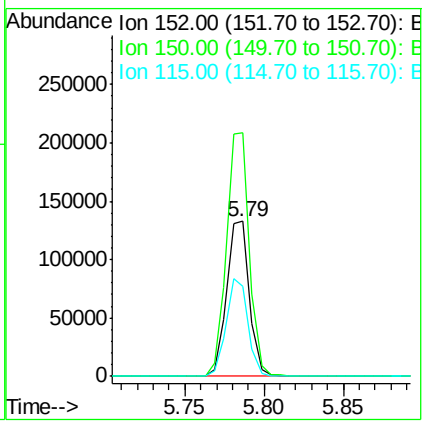


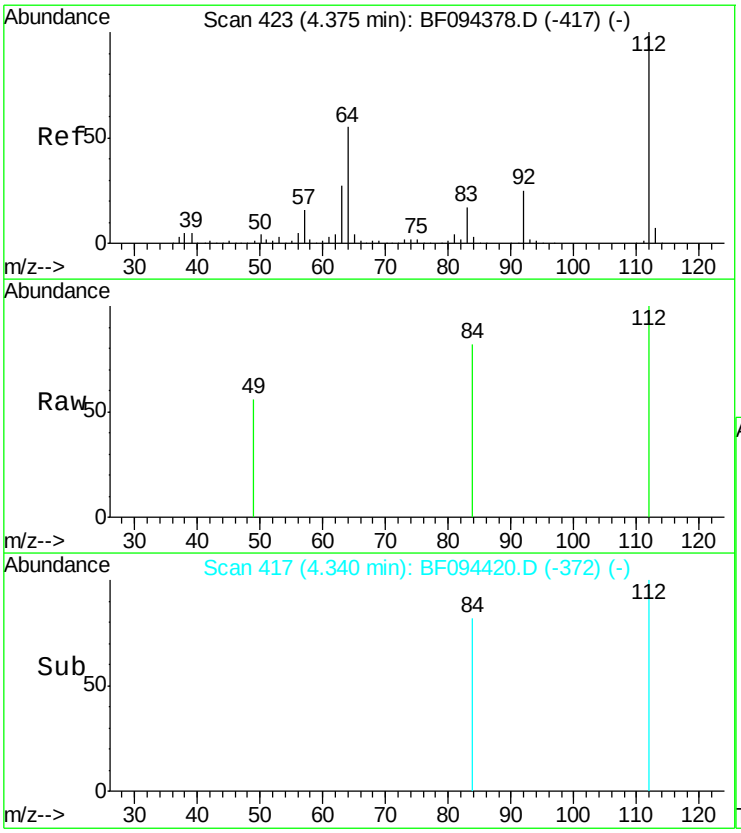

#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.79 min Scan# 663
Delta R.T. -0.04 min
Lab File: BF094420.D
Acq: 14 Apr 2017 9:06

**Instrument :**
BNA_F
**ClientSampleId :**
E2-Z9-ESWDL

Tgt Ion:152 Resp: 132064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.0 | 126.2 | 189.2 |
| 115 | 57.9 | 52.2 | 78.2 |

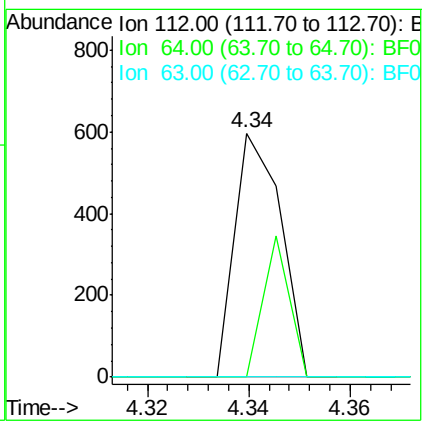


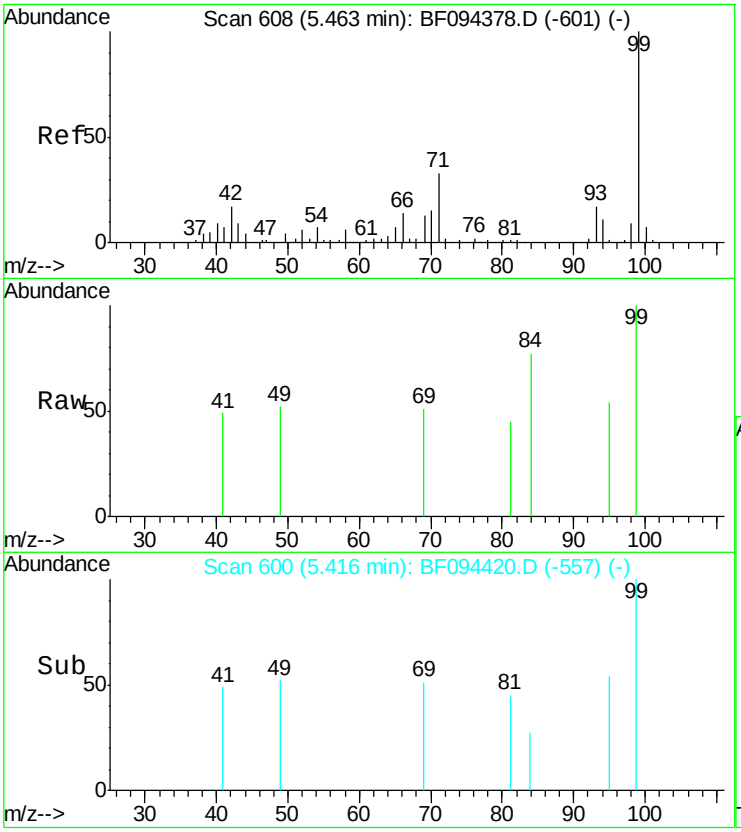




#5
2-Fluorophenol
Concen: 0.05 ng
RT: 4.34 min Scan# 417
Delta R.T. -0.04 min
Lab File: BF094420.D
Acq: 14 Apr 2017 9:06

Tgt Ion:112 Resp: 376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 0.0 | 46.0 | 69.0# |
| 63 | 0.0 | 23.4 | 35.0# |



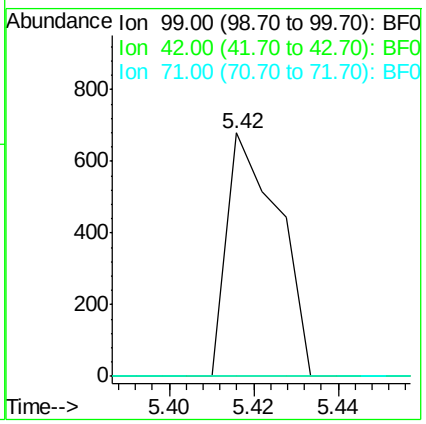


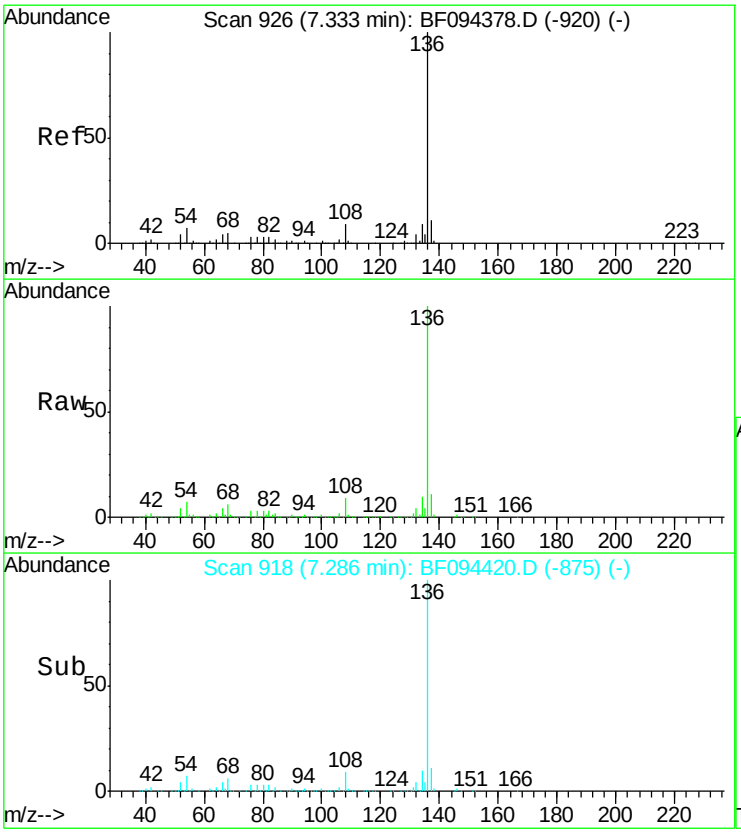

#7
Phenol-d6
Concen: 0.06 ng
RT: 5.42 min Scan# 600
Delta R.T. -0.05 min
Lab File: BF094420.D
Acq: 14 Apr 2017 9:06

**Instrument :**
BNA_F
**ClientSampleId :**
E2-Z9-ESWDL

Tgt Ion: 99 Resp: 579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 0.0 | 13.5 | 20.3# |
| 71 | 0.0 | 24.5 | 36.7# |

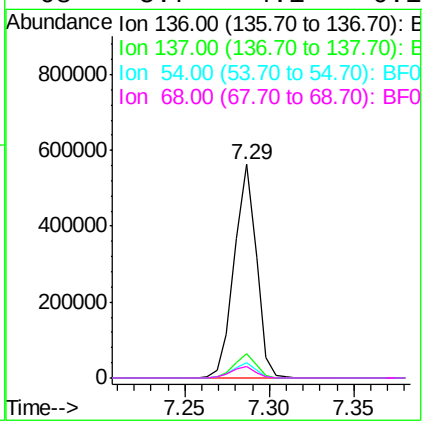


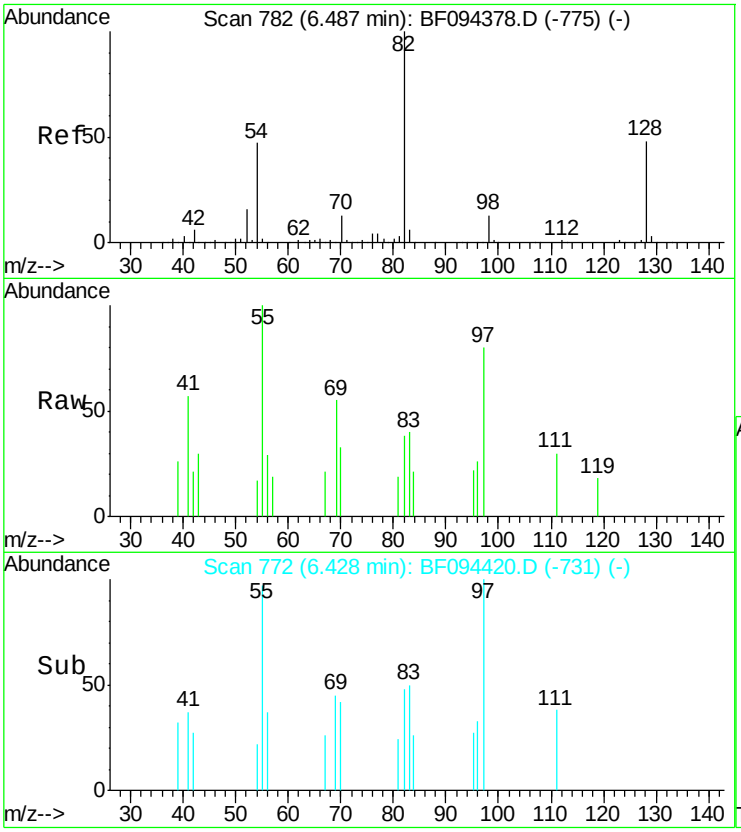




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.29 min Scan# 918
Delta R.T. -0.05 min
Lab File: BF094420.D
Acq: 14 Apr 2017 9:06

Tgt Ion:136 Resp: 513729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.2 | 8.5 | 12.7 |
| 54 | 7.4 | 4.9 | 7.3# |
| 68 | 5.7 | 4.1 | 6.1 |



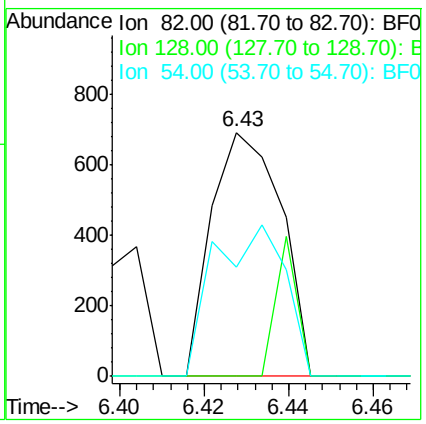


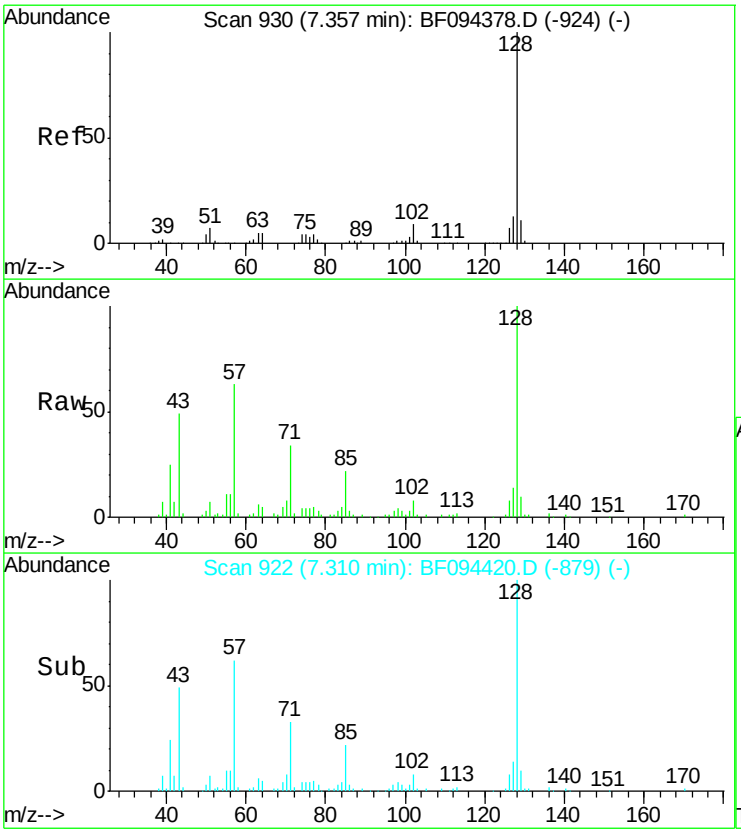

#23
Nitrobenzene-d5
Concen: 0.09 ng
RT: 6.43 min Scan# 772
Delta R.T. -0.06 min
Lab File: BF094420.D
Acq: 14 Apr 2017 9:06

**Instrument :**
BNA_F
**ClientSampleId :**
E2-Z9-ESWDL

Tgt Ion: 82 Resp: 795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 0.0 | 34.0 | 51.0# |
| 54 | 44.9 | 42.2 | 63.2 |

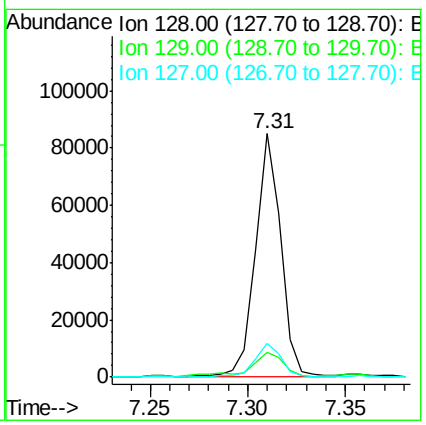


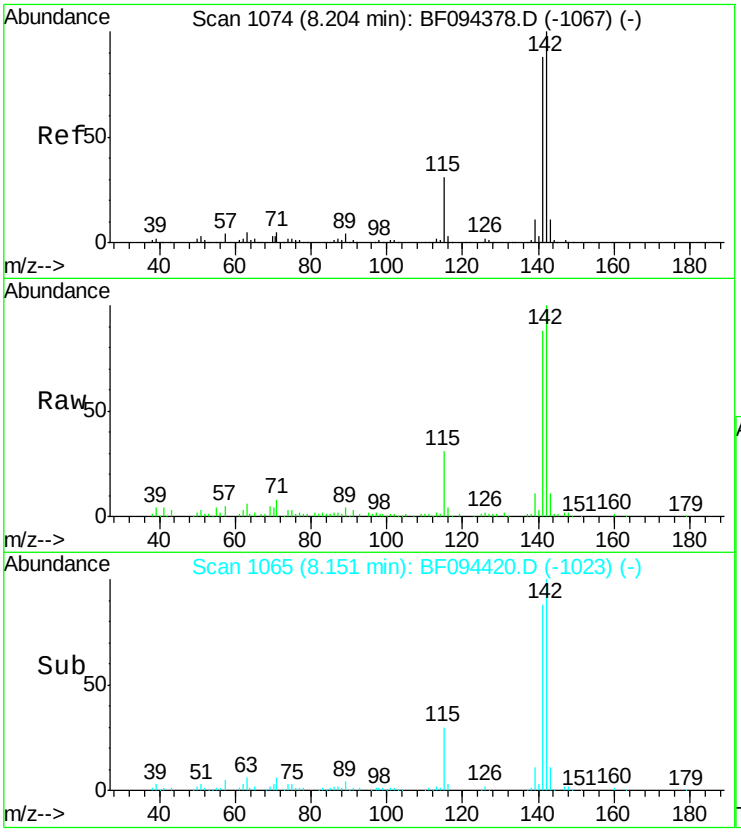




#31
Naphthalene
Concen: 3.11 ng
RT: 7.31 min Scan# 922
Delta R.T. -0.05 min
Lab File: BF094420.D
Acq: 14 Apr 2017 9:06

Tgt Ion:128 Resp: 76942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.1 | 9.0 | 13.6 |
| 127 | 14.1 | 10.8 | 16.2 |



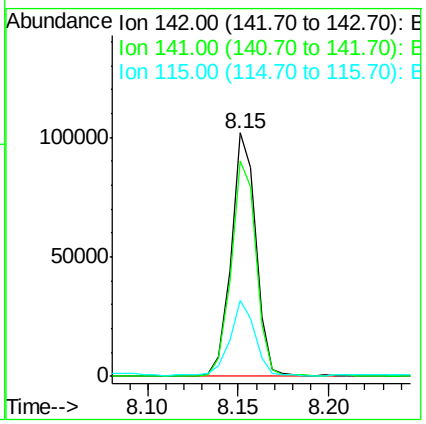


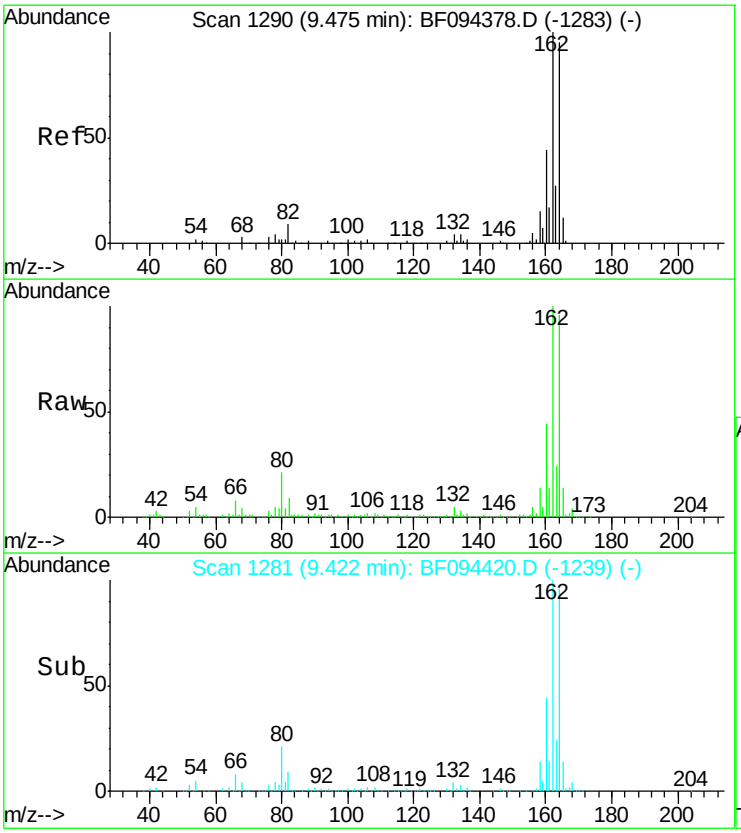

#37
2-Methylnaphthalene
Concen: 5.85 ng
RT: 8.15 min Scan# 1065
Delta R.T. -0.05 min
Lab File: BF094420.D
Acq: 14 Apr 2017 9:06

**Instrument :**
BNA_F
**ClientSampleId :**
E2-Z9-ESWDL

Tgt Ion:142 Resp: 96369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.3 | 71.3 | 106.9 |
| 115 | 31.3 | 27.1 | 40.7 |

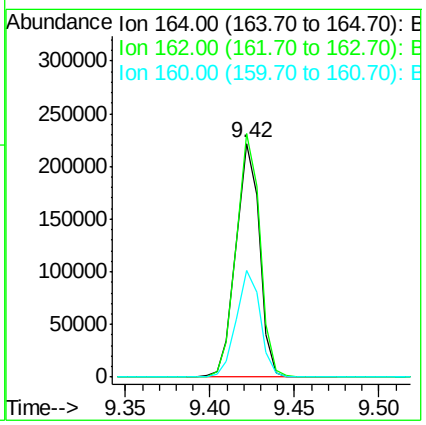


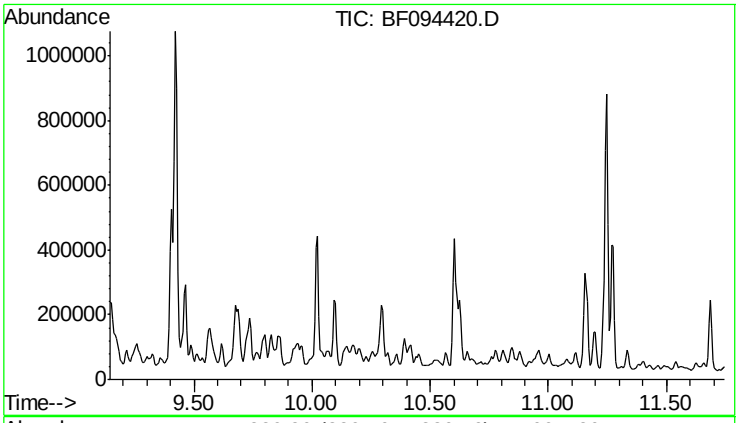



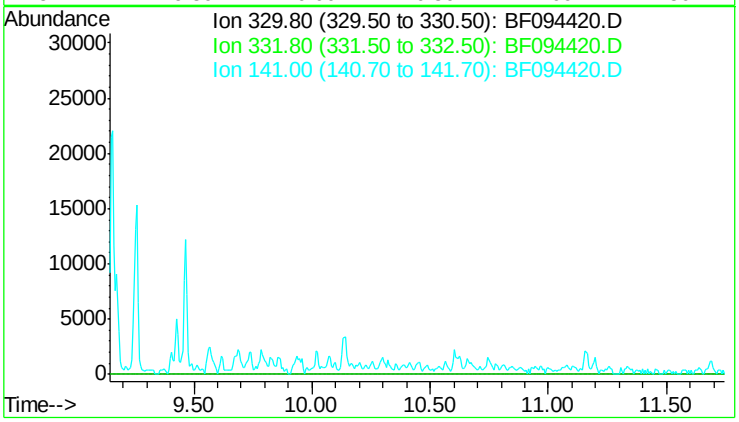

#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.42 min Scan# 1281
Delta R.T. -0.05 min
Lab File: BF094420.D
Acq: 14 Apr 2017 9:06

Tgt Ion:164 Resp: 215974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.1 | 82.6 | 123.8 |
| 160 | 45.4 | 36.2 | 54.2 |





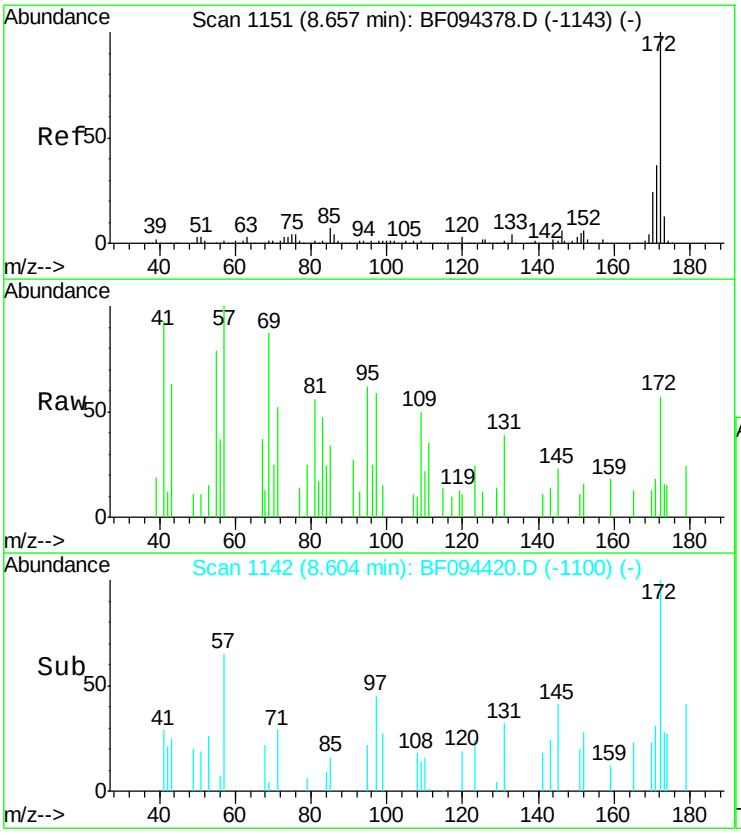

#41
2,4,6-Tribromophenol
Concen: 0.00 ng
Expected RT: 10.45 min

Lab File: BF094420.D
Acq: 14 Apr 2017 9:06

Tgt Ion: 330

| Sig | Exp Ratio |
|---|---|
| 330 | 100 |
| 332 | 95.8 |
| 141 | 39.3 |

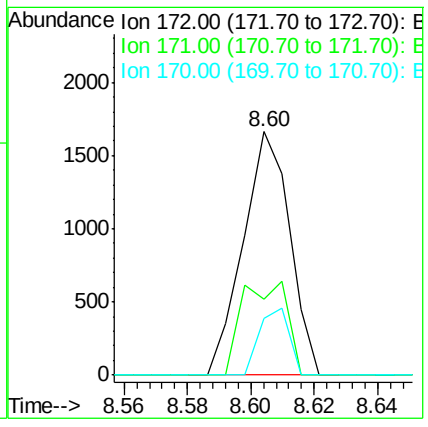
**Instrument :**
BNA_F
**ClientSampleId :**
E2-Z9-ESWDL

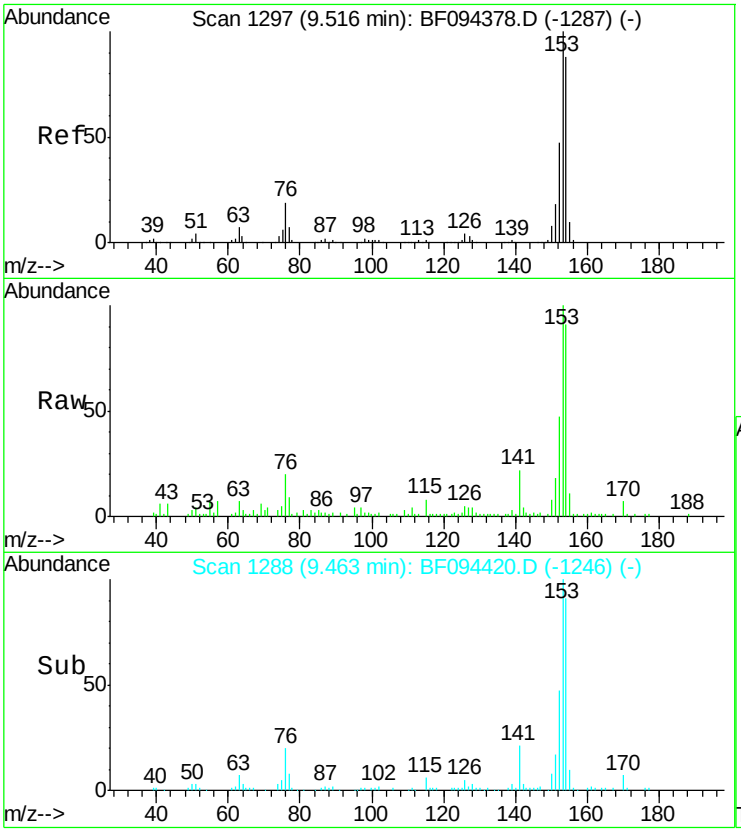



#44
2-Fluorobiphenyl
Concen: 0.12 ng
RT: 8.60 min Scan# 1142
Delta R.T. -0.05 min
Lab File: BF094420.D
Acq: 14 Apr 2017 9:06

Tgt Ion:172 Resp: 1695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 31.4 | 29.6 | 44.4 |
| 170 | 23.3 | 19.8 | 29.8 |



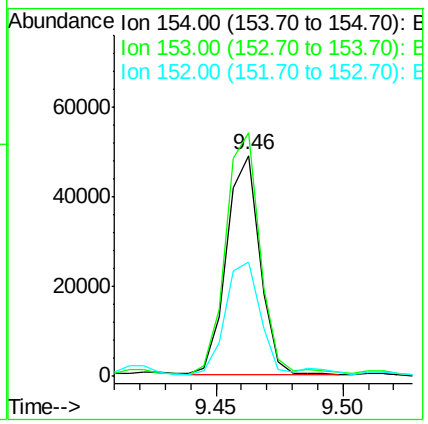


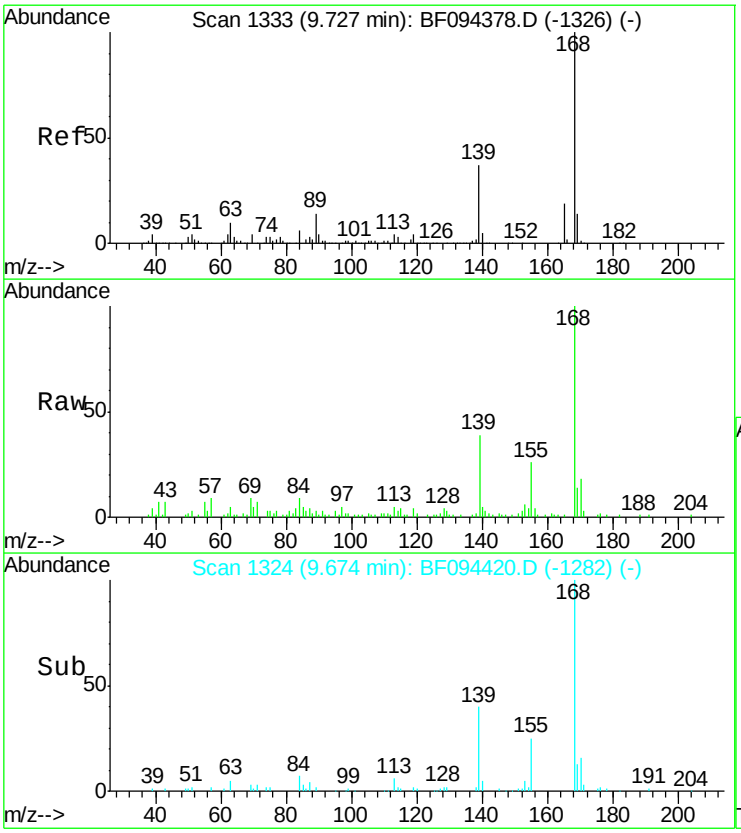

#51
Acenaphthene
Concen: 3.39 ng
RT: 9.46 min Scan# 1288
Delta R.T. -0.05 min
Lab File: BF094420.D
Acq: 14 Apr 2017 9:06

**Instrument :**
BNA_F
**ClientSampleId :**
E2-Z9-ESWDL

Tgt Ion:154 Resp: 44828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 110.2 | 90.5 | 135.7 |
| 152 | 51.9 | 43.6 | 65.4 |

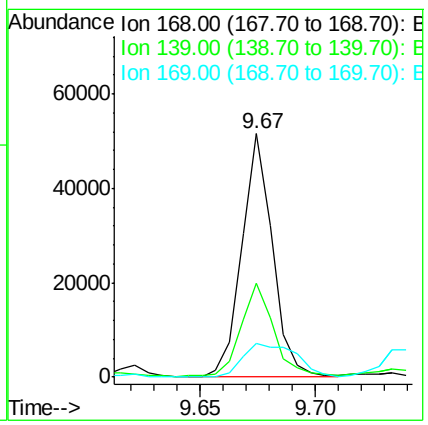


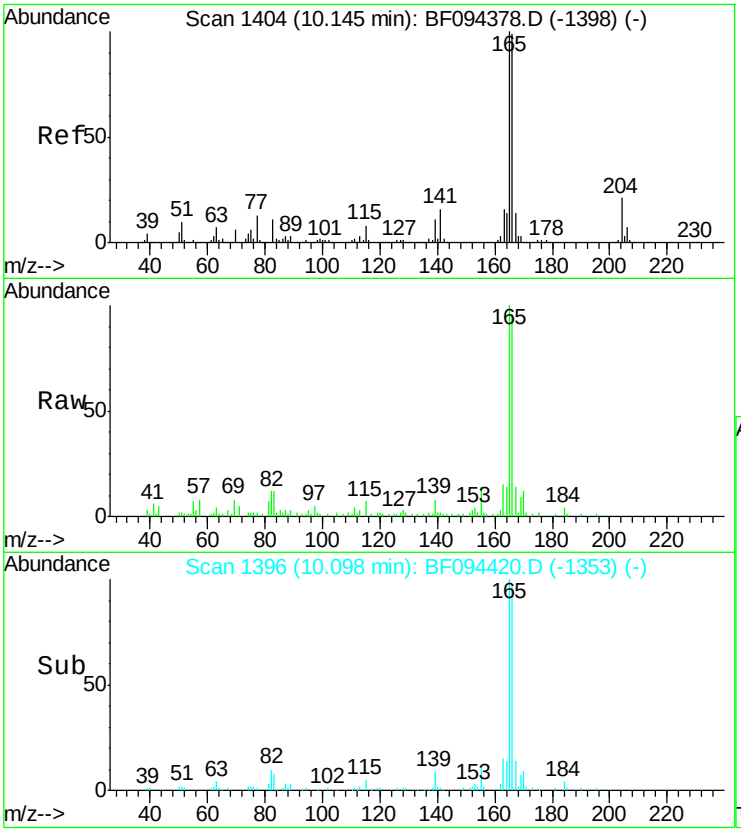




#54
Dibenzofuran
Concen: 2.67 ng
RT: 9.67 min Scan# 1324
Delta R.T. -0.05 min
Lab File: BF094420.D
Acq: 14 Apr 2017 9:06

Tgt Ion:168 Resp: 48150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 38.7 | 30.6 | 45.8 |
| 169 | 13.7 | 10.8 | 16.2 |



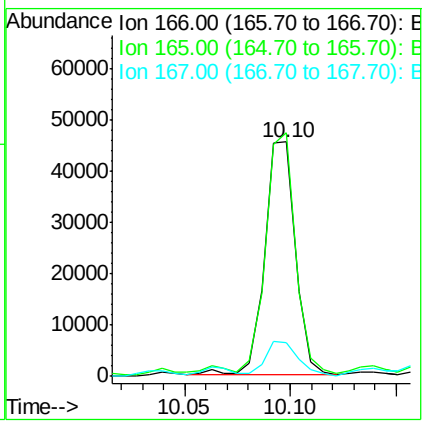


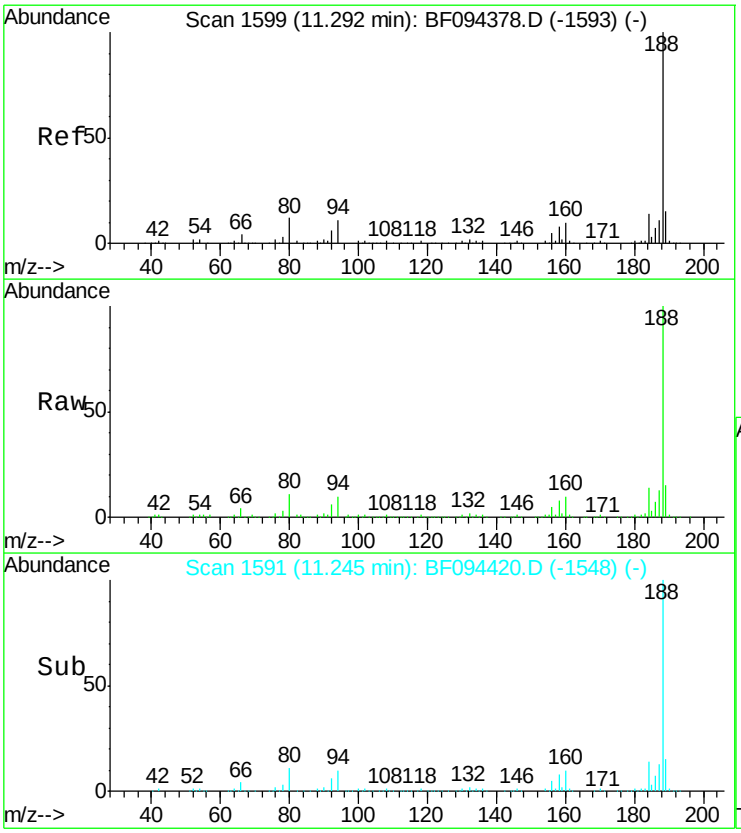

#57
Fluorene
Concen: 3.06 ng
RT: 10.10 min Scan# 1396
Delta R.T. -0.05 min
Lab File: BF094420.D
Acq: 14 Apr 2017 9:06

**Instrument :**
BNA_F
**ClientSampleId :**
E2-Z9-ESWDL

Tgt Ion:166 Resp: 45667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 103.9 | 78.8 | 118.2 |
| 167 | 14.2 | 10.6 | 16.0 |

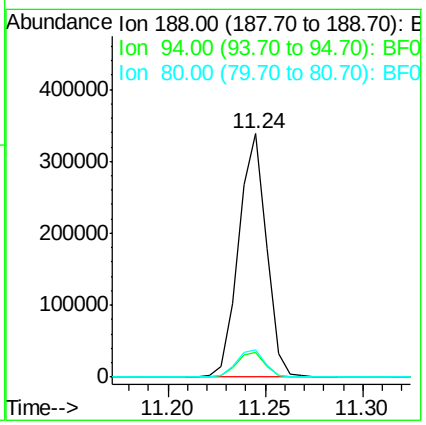


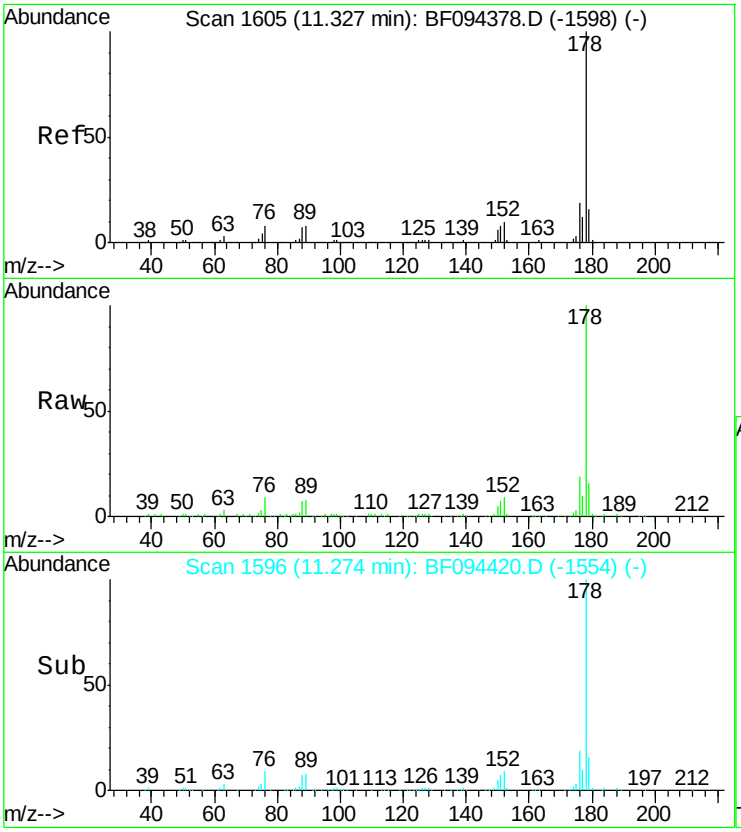




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.24 min Scan# 1591
Delta R.T. -0.05 min
Lab File: BF094420.D
Acq: 14 Apr 2017 9:06

Tgt Ion:188 Resp: 333481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.2 | 9.4 | 14.2 |
| 80 | 11.0 | 10.2 | 15.2 |



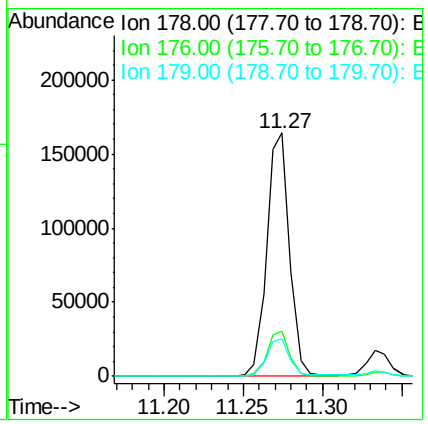


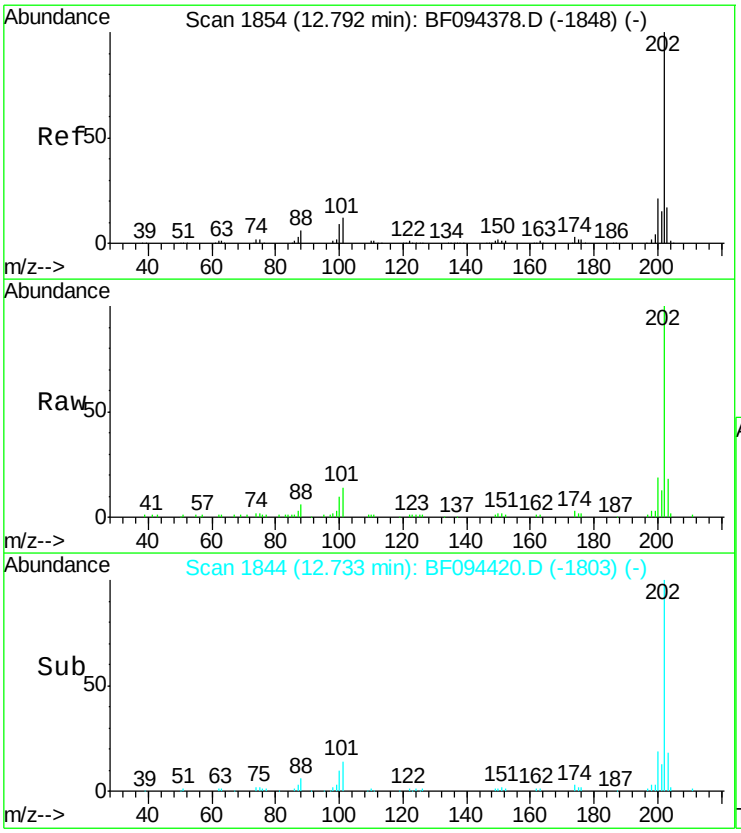

#70
Phenanthrene
Concen: 8.92 ng
RT: 11.27 min Scan# 1596
Delta R.T. -0.05 min
Lab File: BF094420.D
Acq: 14 Apr 2017 9:06

**Instrument :**
BNA_F
**ClientSampleId :**
E2-Z9-ESWDL

Tgt Ion:178 Resp: 165483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 16.2 | 24.4 |
| 179 | 15.5 | 12.6 | 19.0 |

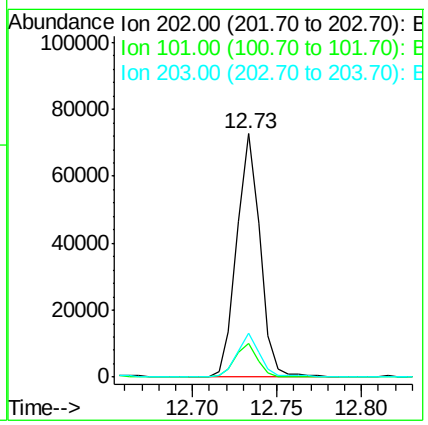


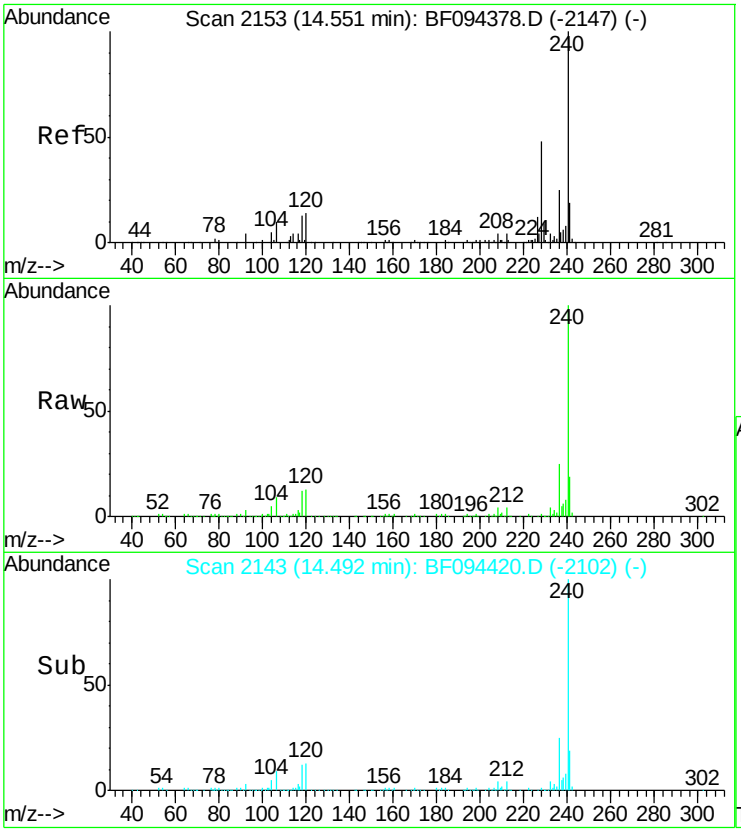




#74
Fluoranthene
Concen: 3.67 ng
RT: 12.73 min Scan# 1844
Delta R.T. -0.06 min
Lab File: BF094420.D
Acq: 14 Apr 2017 9:06

Tgt Ion:202 Resp: 69790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.7 | 0.0 | 33.2 |
| 203 | 18.0 | 0.0 | 38.1 |



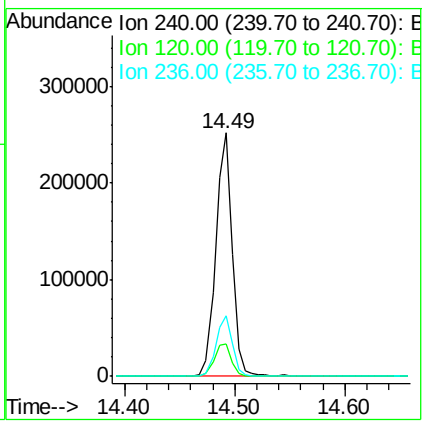


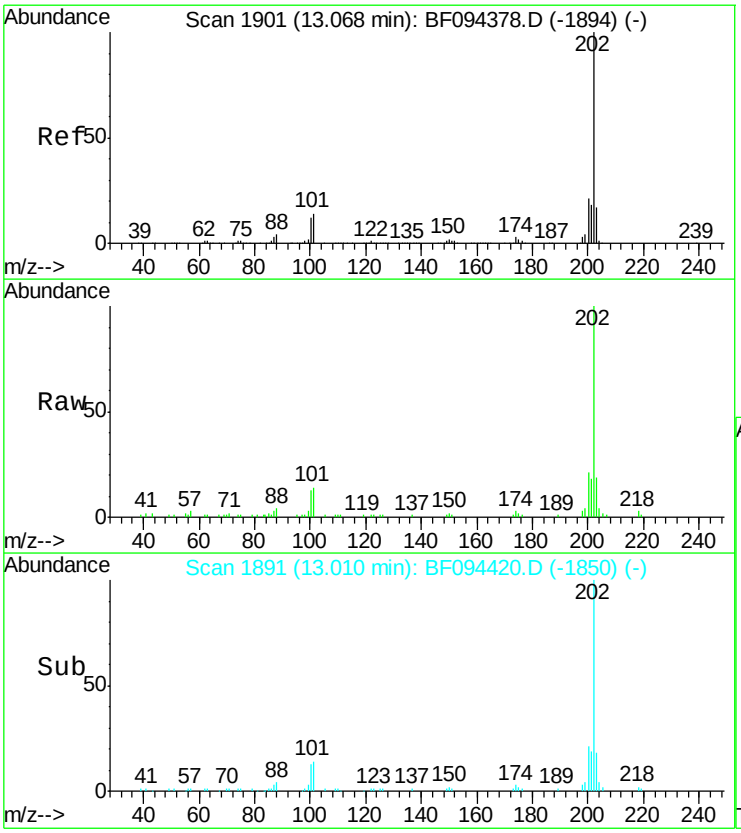

#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.49 min Scan# 2143
Delta R.T. -0.06 min
Lab File: BF094420.D
Acq: 14 Apr 2017 9:06

**Instrument :**
BNA_F
**ClientSampleId :**
E2-Z9-ESWDL

Tgt Ion:240 Resp: 258849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.3 | 5.8 | 8.8# |
| 236 | 25.0 | 20.5 | 30.7 |

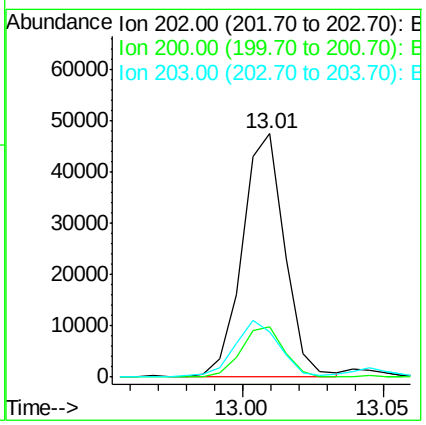


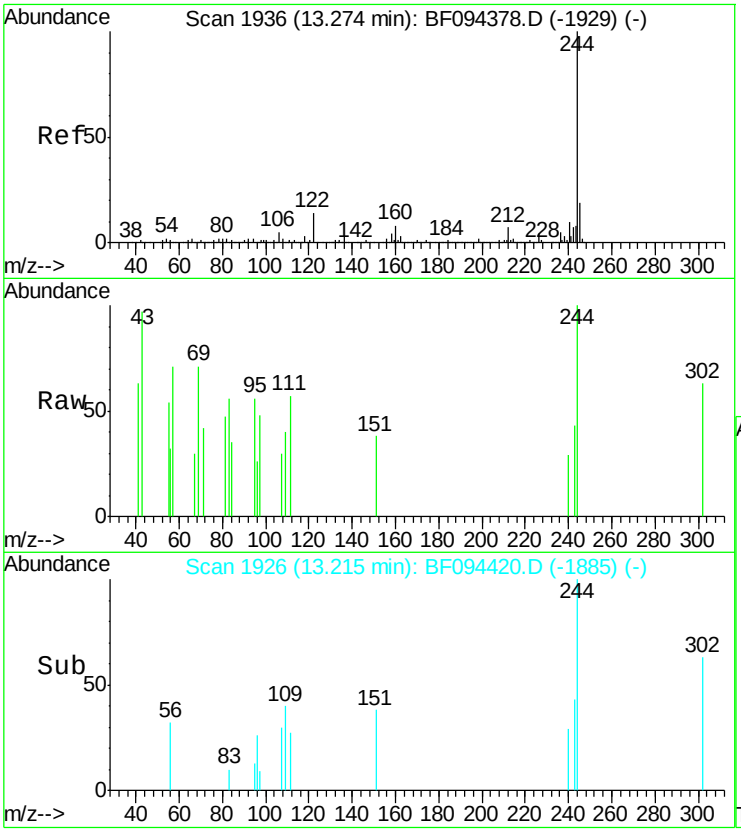




#77
Pyrene
Concen: 2.64 ng
RT: 13.01 min Scan# 1891
Delta R.T. -0.06 min
Lab File: BF094420.D
Acq: 14 Apr 2017 9:06

Tgt Ion:202 Resp: 49505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.6 | 17.6 | 26.4 |
| 203 | 18.6 | 14.4 | 21.6 |



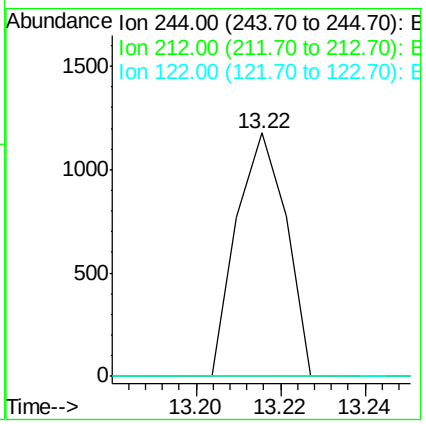


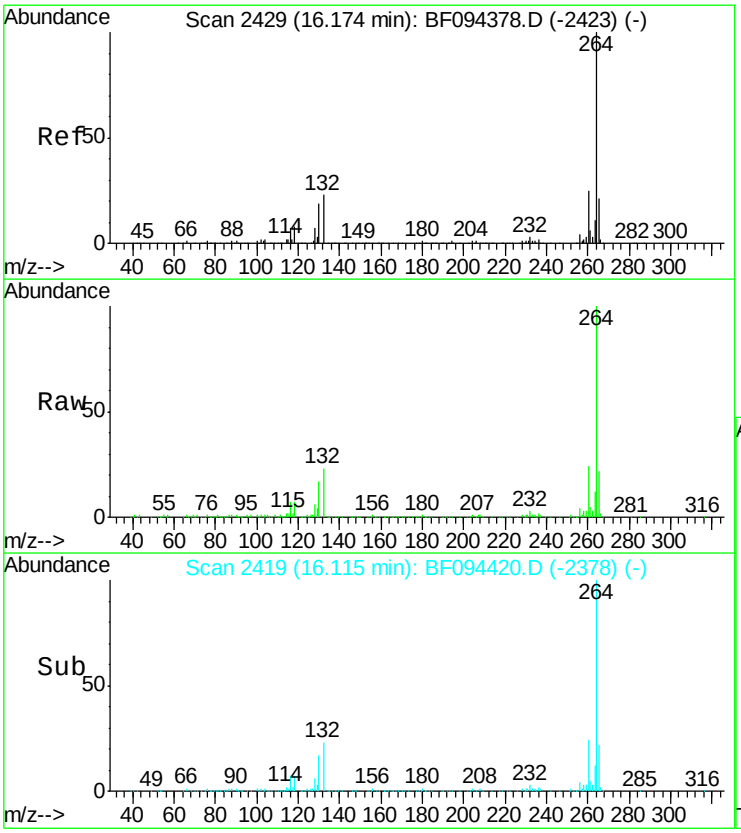

#78
Terphenyl-d14
Concen: 0.08 ng
RT: 13.22 min Scan# 1926
Delta R.T. -0.06 min
Lab File: BF094420.D
Acq: 14 Apr 2017 9:06

**Instrument :**
BNA_F
**ClientSampleId :**
E2-Z9-ESWDL

Tgt Ion:244 Resp: 963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 0.0 | 6.0 | 9.0# |
| 122 | 0.0 | 10.3 | 15.5# |




#86
Perylene-d12
Concen: 20.00 ng
RT: 16.12 min Scan# 2419
Delta R.T. -0.06 min
Lab File: BF094420.D
Acq: 14 Apr 2017 9:06

Tgt Ion:264 Resp: 195925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.1 | 19.5 | 29.3 |
| 265 | 22.4 | 17.2 | 25.8 |