Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021615\
Data File : BE089581.D
Acq On : 16 Feb 2015 23:03
Operator : TP/IZ
Sample : PB81705BSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_E
**ClientSampleId :** PB81705BSD

Quant Time: Feb 17 00:23:50 2015
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE021615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Feb 16 18:23:16 2015
Response via : Initial Calibration

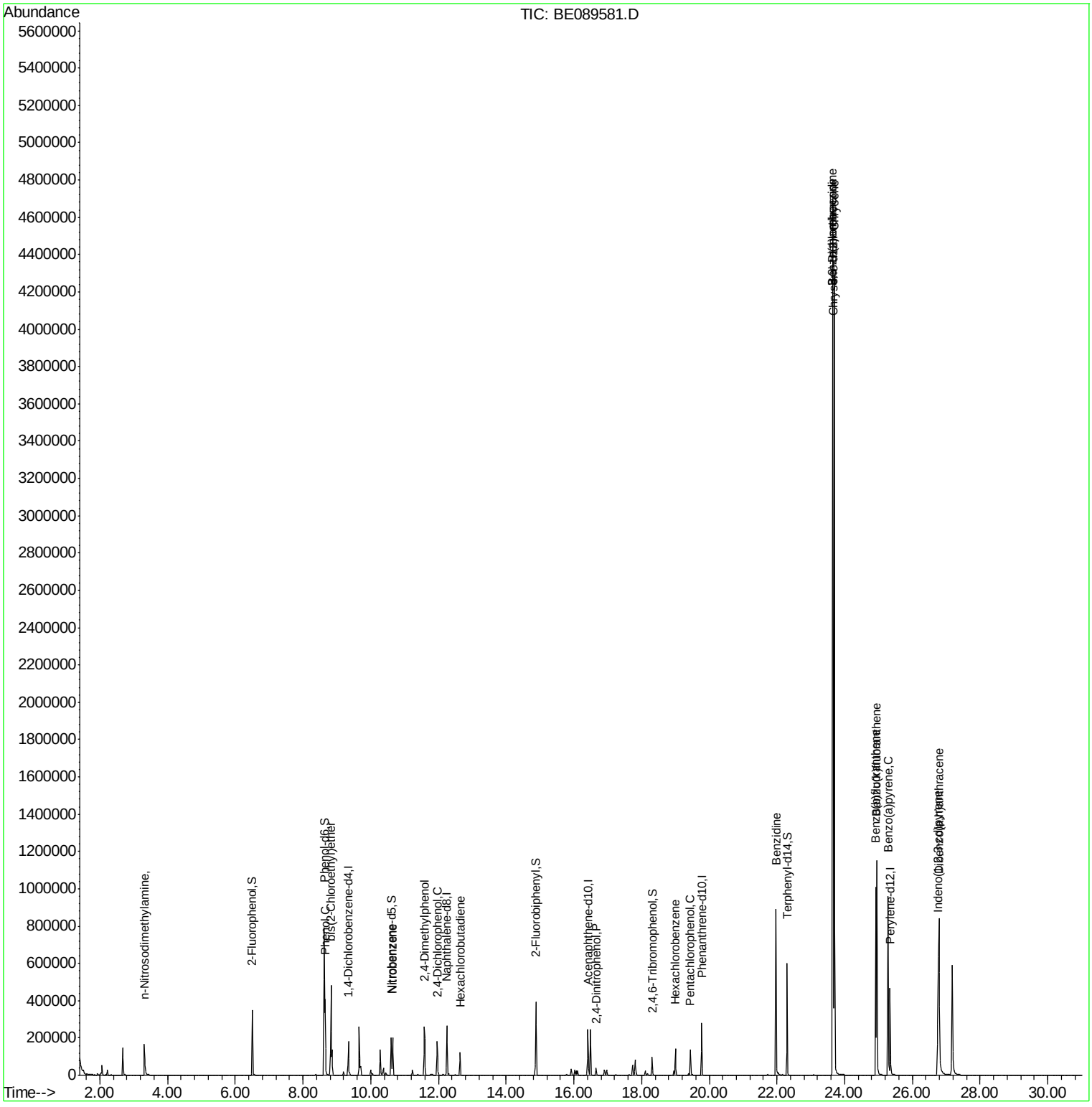
| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 9.34 | 152 | 81930 | 5.00 | ng | | 0.00 |
| 7) Naphthalene-d8 | 12.25 | 136 | 313500 | 5.00 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 16.42 | 164 | 151417 | 5.00 | ng | | 0.00 |
| 17) Phenanthrene-d10 | 19.78 | 188 | 293118 | 5.00 | ng | | 0.00 |
| 20) Chrysene-d12 | 23.66 | 240 | 390314 | 5.00 | ng | | 0.00 |
| 27) Perylene-d12 | 25.34 | 264 | 357370 | 5.00 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 3) 2-Fluorophenol | 6.51 | 112 | 259287 | 10.95 | ng | | 0.00 |
| 4) Phenol-d6 | 8.63 | 99 | 345229 | 10.99 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 10.61 | 82 | 154588 | 11.60 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 18.32 | 330 | 55945 | 16.40 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 14.88 | 172 | 364851 | 8.92 | ng | | 0.00 |
| 22) Terphenyl-d14 | 22.31 | 244 | 487435 | 9.06 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) n-Nitrosodimethylamine | 3.31 | 42 | 90940 | 7.00 | ng | # | 59 |
| 5) Phenol | 8.66 | 94 | 257364 | 7.62 | ng | # | 79 |
| 6) bis(2-Chloroethyl)ether | 8.83 | 93 | 211913 | 8.24 | ng | # | 92 |
| 9) Nitrobenzene | 10.65 | 77 | 180612 | 11.22 | ng | | 94 |
| 10) 2,4-Dimethylphenol | 11.59 | 122 | 143591 | 7.77 | ng | | 100 |
| 11) 2,4-Dichlorophenol | 11.97 | 162 | 130411 | 9.02 | ng | | 99 |
| 12) Hexachlorobutadiene | 12.64 | 225 | 78768 | 8.27 | ng | | 100 |
| 16) 2,4-Dinitrophenol | 16.66 | 184 | 29527 | 56.07 | ng | # | 62 |
| 18) Hexachlorobenzene | 19.00 | 284 | 109800 | 8.91 | ng | | 92 |
| 19) Pentachlorophenol | 19.44 | 266 | 82545 | 36.91 | ng | | 96 |
| 21) Benzidine | 21.97 | 184 | 788717 | 22.57 | ng | | 99 |
| 23) Benzo(a)anthracene | 23.64 | 228 | 3506007 | 9.07 | ng | | 93 |
| 24) 3,3'-Dichlorobenzidine | 23.63 | 252 | 316067 | 11.26 | ng | | 96 |
| 25) Chrysene | 23.69 | 228 | 3279131 | 8.83 | ng | | 95 |
| 26) Indeno(1,2,3-cd)pyrene | 26.76 | 276 | 955979 | 9.91 | ng | | 99 |
| 28) Benzo(b)fluoranthene | 24.92 | 252 | 814057 | 10.52 | ng | | 97 |
| 29) Benzo(k)fluoranthene | 24.95 | 252 | 916163 | 9.08 | ng | | 99 |
| 30) Benzo(a)pyrene | 25.28 | 252 | 792692 | 10.69 | ng | | 99 |
| 31) Dibenzo(a,h)anthracene | 26.78 | 278 | 797830 | 10.56 | ng | | 99 |

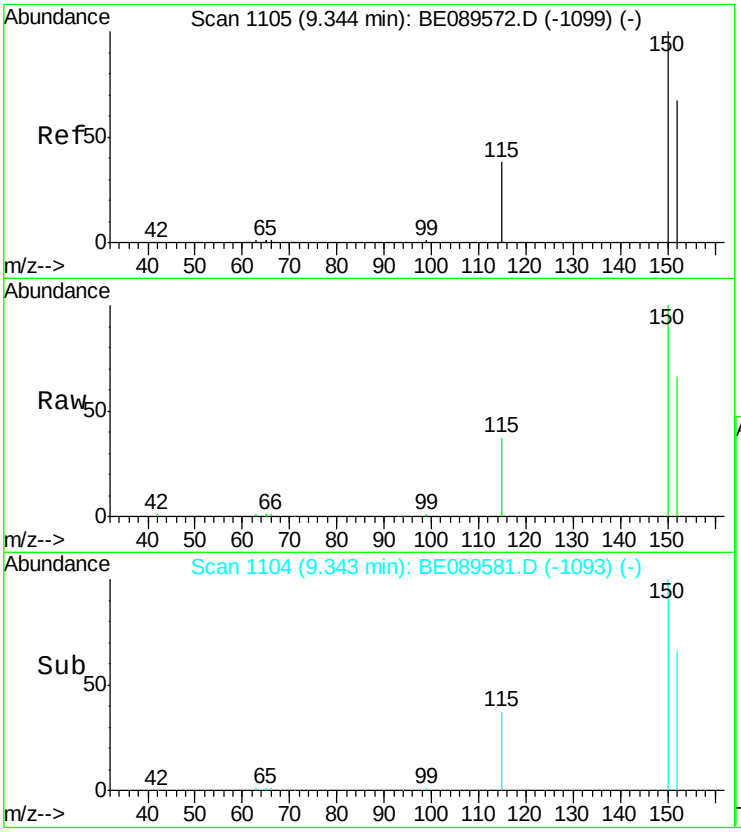
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021615\
Data File : BE089581.D
Acq On : 16 Feb 2015 23:03
Operator : TP/IZ
Sample : PB81705BSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
PB81705BSD

Quant Time: Feb 17 00:23:50 2015
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE021615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Feb 16 18:23:16 2015
Response via : Initial Calibration



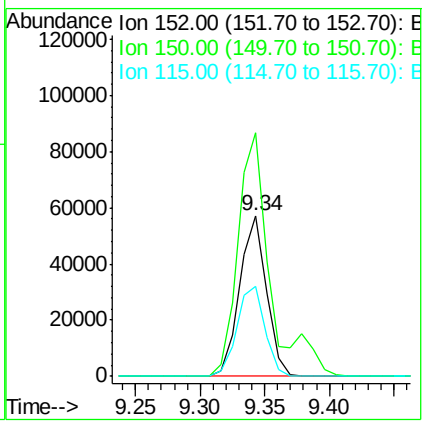


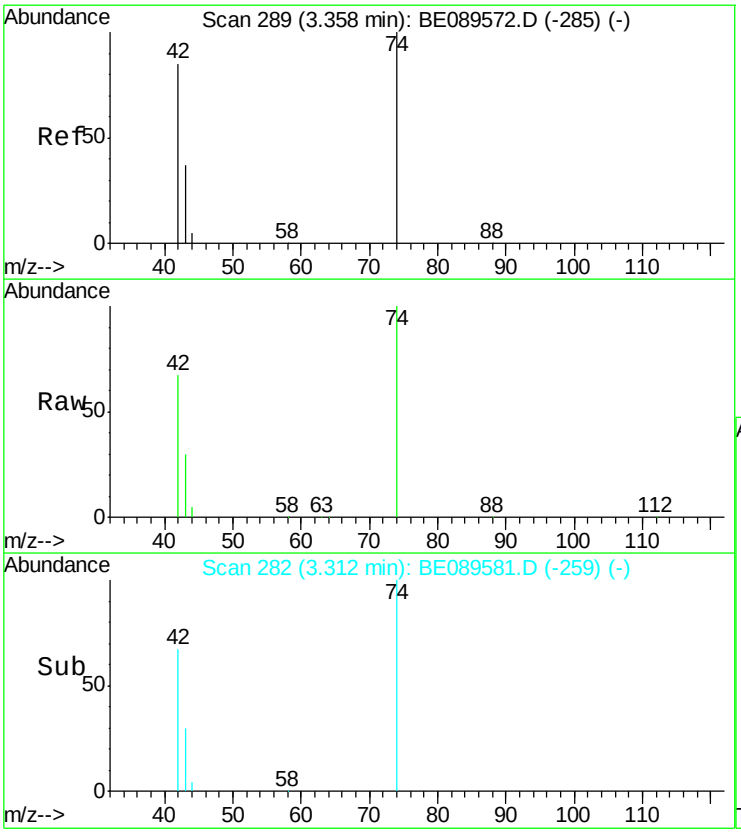

#1
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 9.34 min Scan# 1104
Delta R.T. -0.00 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

**Instrument :**
BNA_E
**ClientSampleId :**
PB81705BSD

Tgt Ion:152 Resp: 81930

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 151.6 | 120.2 | 180.2 |
| 115 | 55.7 | 45.2 | 67.8 |

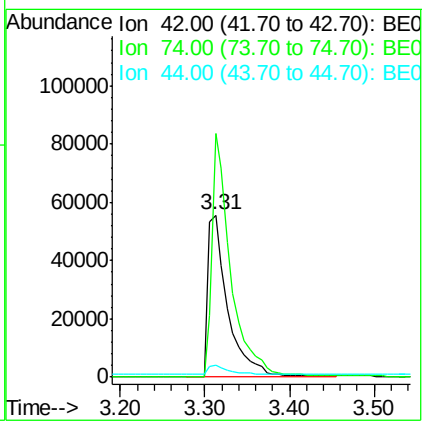


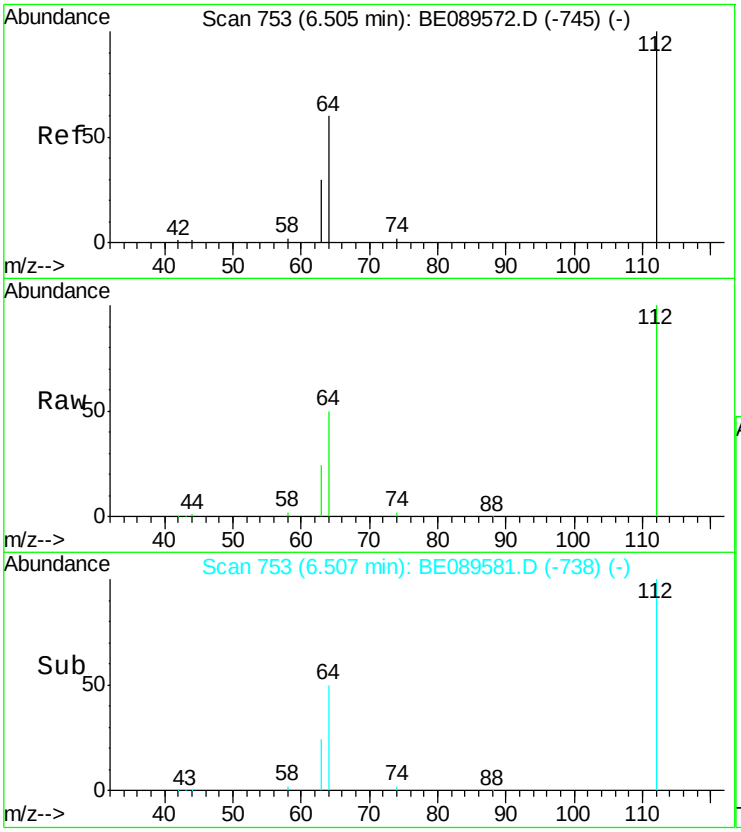




#2
n-Nitrosodimethylamine
Concen: 7.00 ng
RT: 3.31 min Scan# 282
Delta R.T. -0.05 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

Tgt Ion: 42 Resp: 90940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 150.0 | 90.1 | 135.1# |
| 44 | 7.8 | 35.0 | 52.4# |



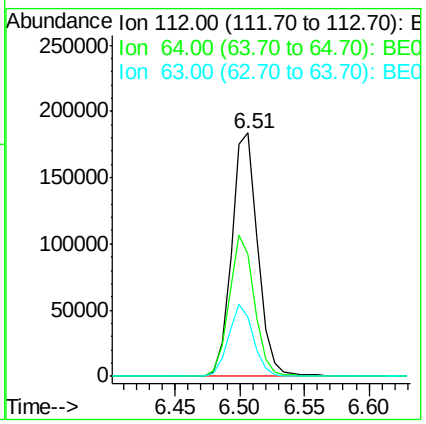


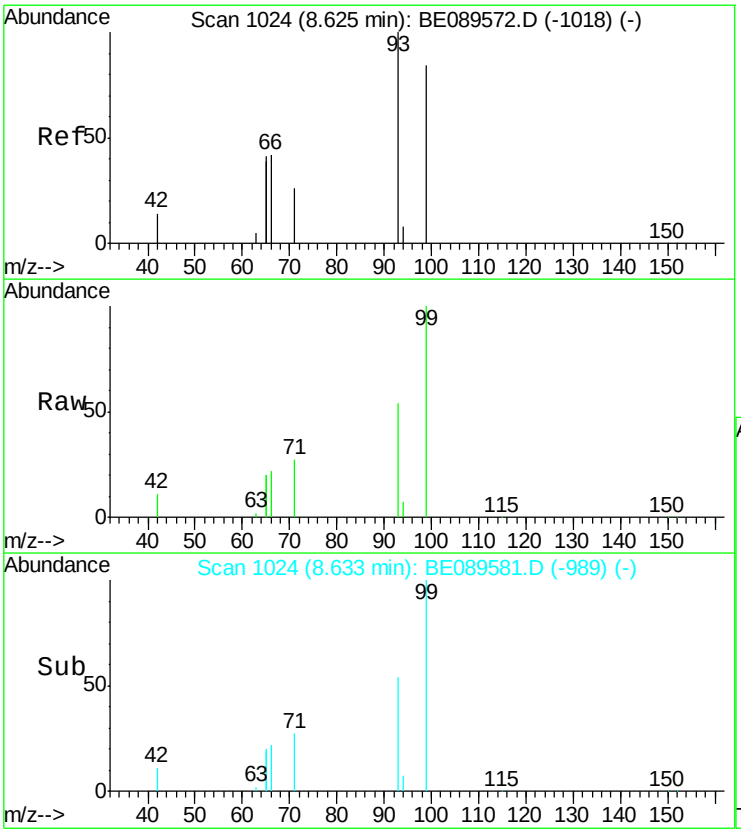

#3
2-Fluorophenol
Concen: 10.95 ng
RT: 6.51 min Scan# 753
Delta R.T. 0.00 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

**Instrument :**
BNA_E
**ClientSampleId :**
PB81705BSD

Tgt Ion:112 Resp: 259287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 50.4 | 48.6 | 72.8 |
| 63 | 24.1 | 24.6 | 37.0# |

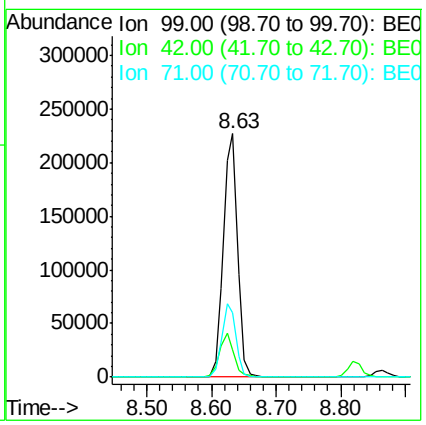


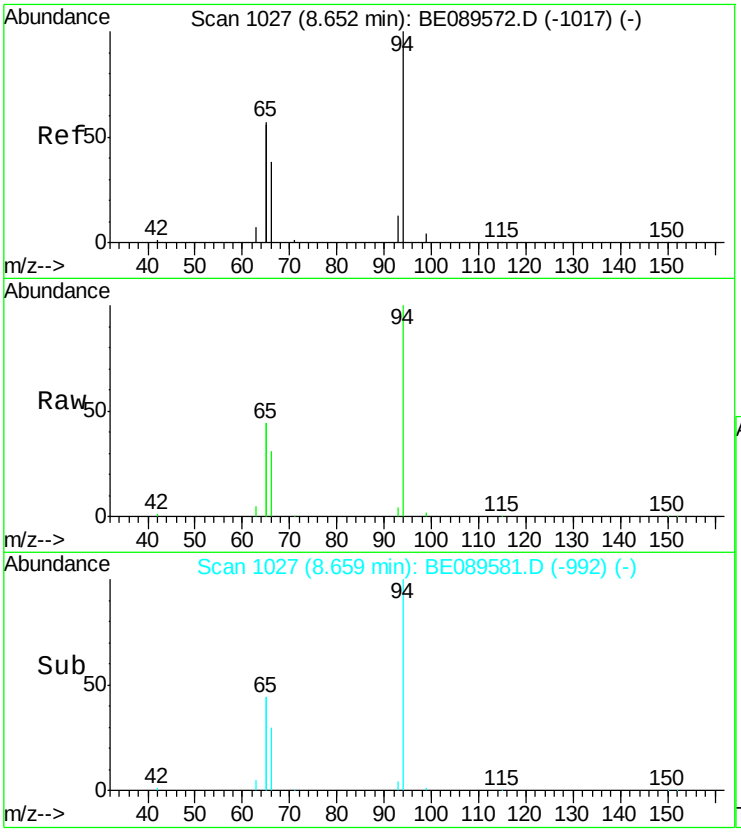




#4
Phenol-d6
Concen: 10.99 ng
RT: 8.63 min Scan# 1024
Delta R.T. 0.01 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

Tgt Ion: 99 Resp: 345229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 11.4 | 13.9 | 20.9# |
| 71 | 26.7 | 25.2 | 37.8 |



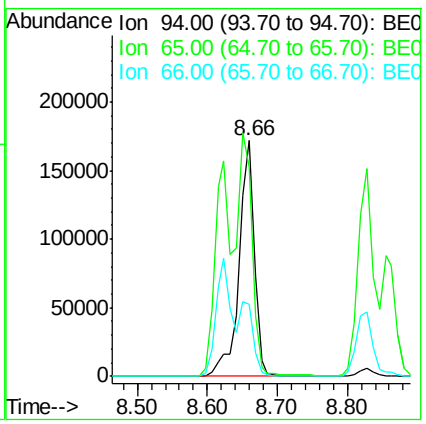


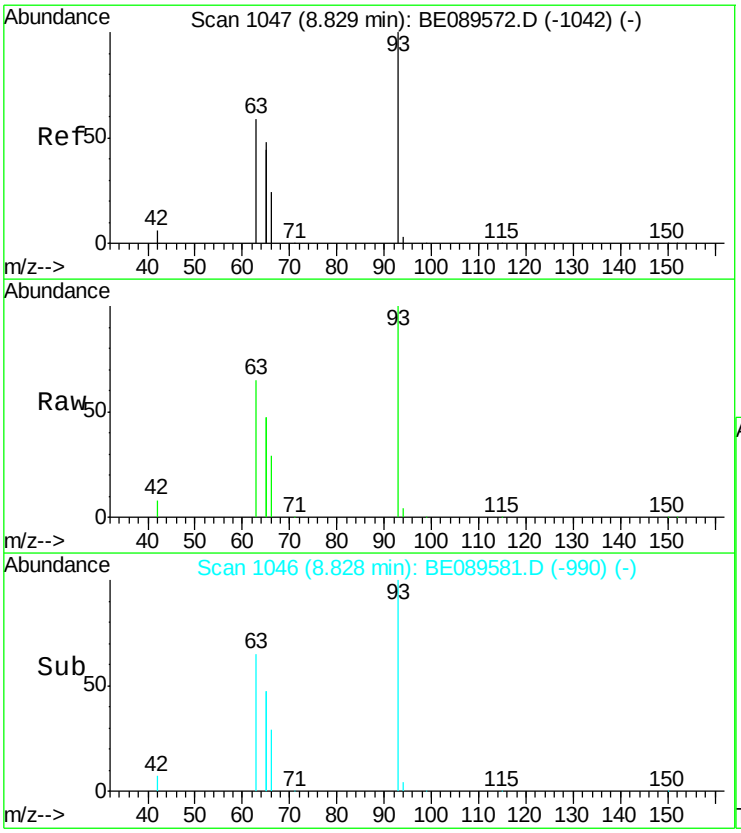

#5
Phenol
Concen: 7.62 ng
RT: 8.66 min Scan# 1027
Delta R.T. 0.01 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

**Instrument :**
BNA_E
**ClientSampleId :**
PB81705BSD

Tgt Ion: 94 Resp: 257364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 88.4 | 94.5 | 134.5# |
| 66 | 30.5 | 18.2 | 58.2 |

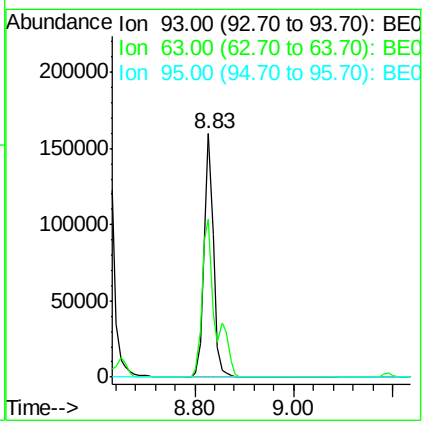


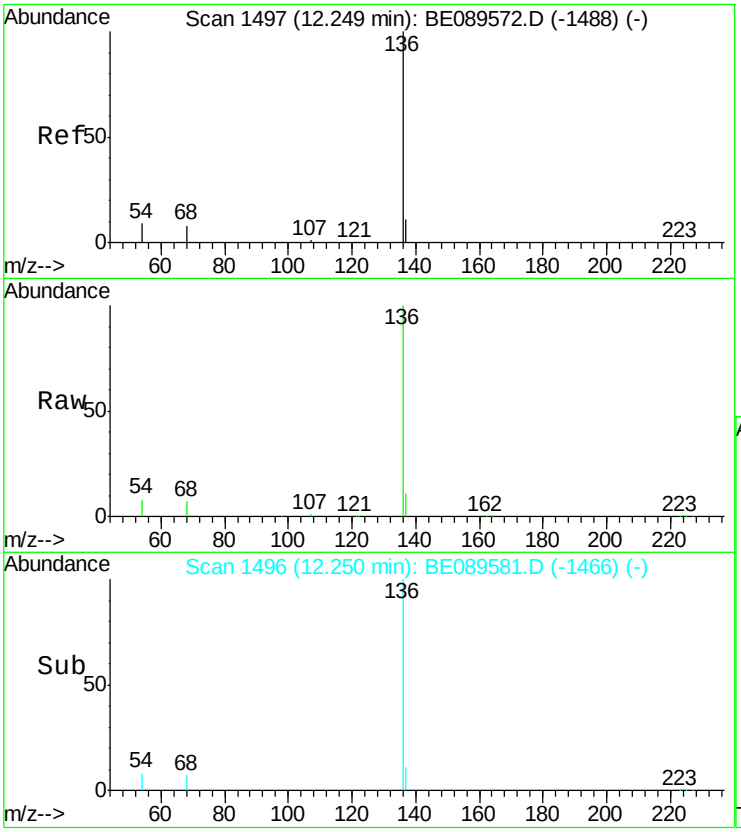




#6
bis(2-Chloroethyl)ether
Concen: 8.24 ng
RT: 8.83 min Scan# 1046
Delta R.T. -0.00 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

Tgt Ion: 93 Resp: 211913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 93.7 | 81.7 | 122.5 |
| 95 | 0.0 | 0.0 | 0.0 |



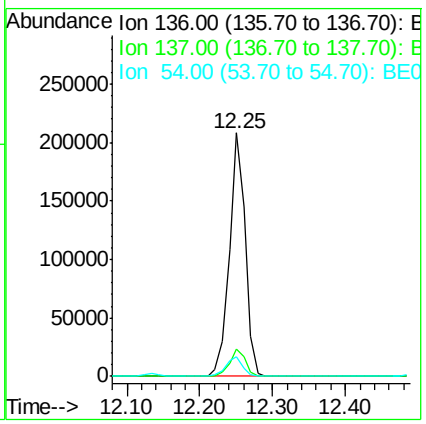


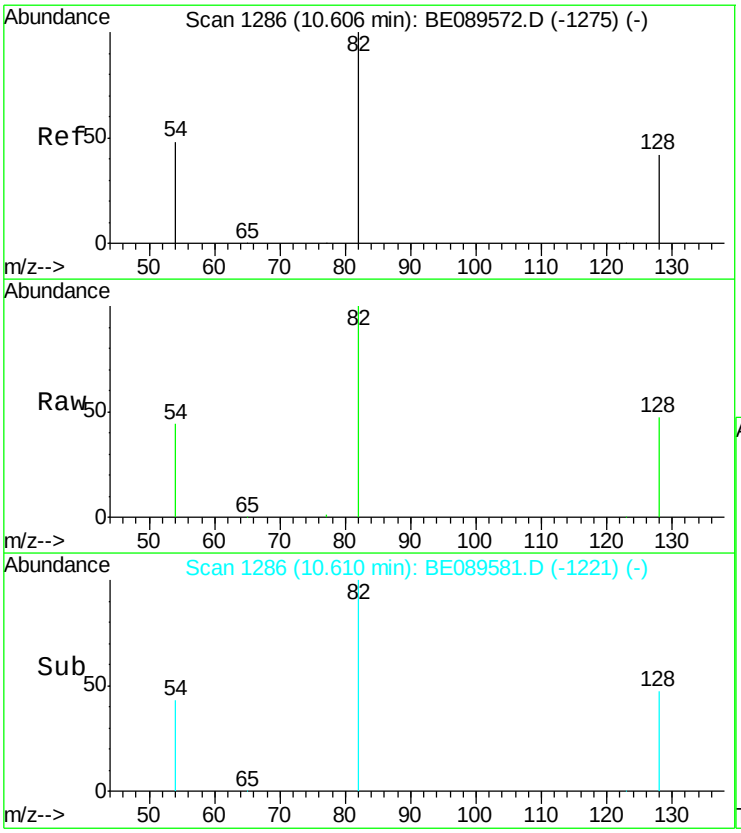

#7
Naphthalene-d8
Concen: 5.00 ng
RT: 12.25 min Scan# 1496
Delta R.T. 0.00 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

**Instrument :**
BNA_E
**ClientSampleId :**
PB81705BSD

Tgt Ion:136 Resp: 313500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 8.7 | 13.1 |
| 54 | 7.9 | 7.0 | 10.4 |

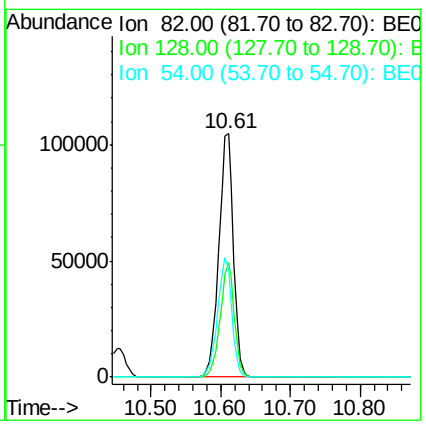


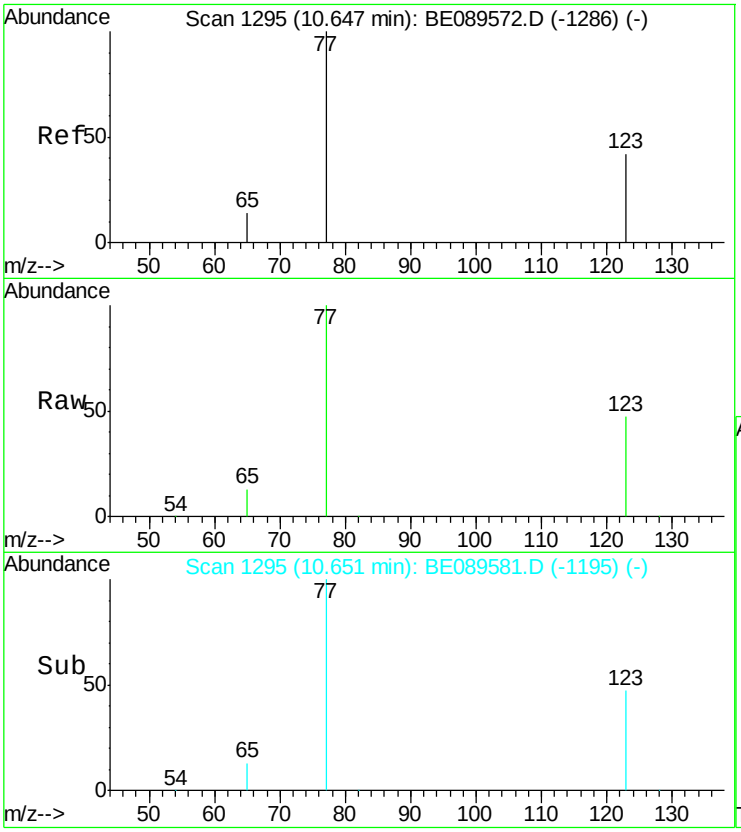




#8
Nitrobenzene-d5
Concen: 11.60 ng
RT: 10.61 min Scan# 1286
Delta R.T. 0.00 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

Tgt Ion: 82 Resp: 154588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 47.1 | 33.8 | 50.6 |
| 54 | 44.2 | 39.0 | 58.6 |



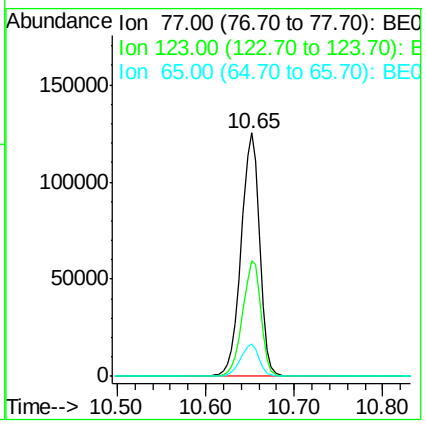


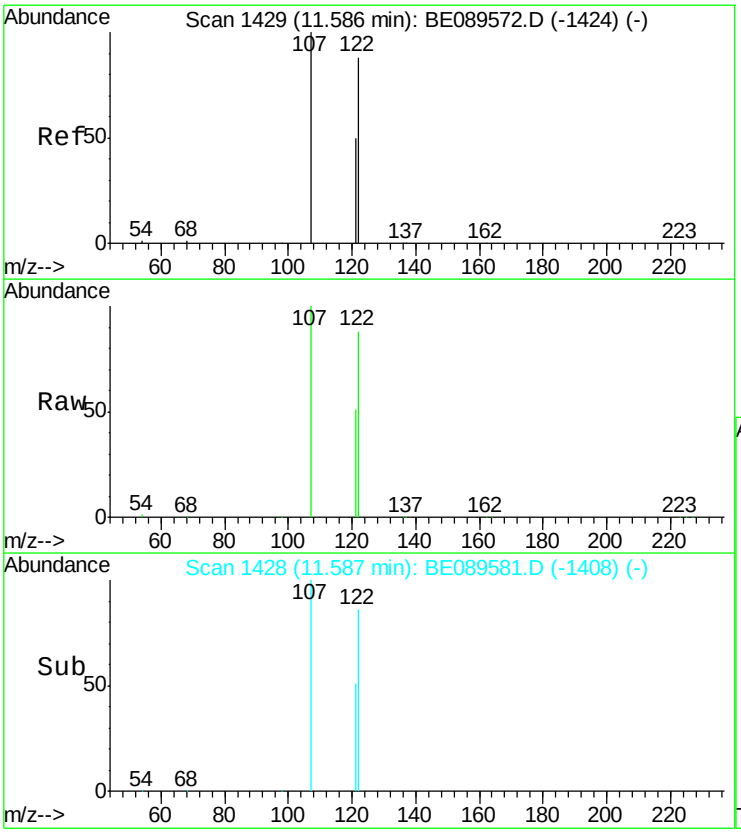

#9
Nitrobenzene
Concen: 11.22 ng
RT: 10.65 min Scan# 1295
Delta R.T. 0.00 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

**Instrument :**
BNA_E
**ClientSampleId :**
PB81705BSD

Tgt Ion: 77 Resp: 180612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 47.6 | 34.4 | 51.6 |
| 65 | 13.4 | 11.4 | 17.2 |

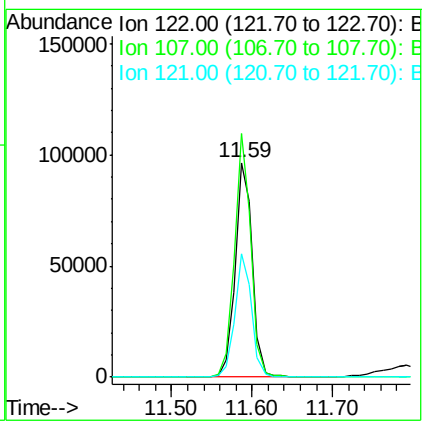


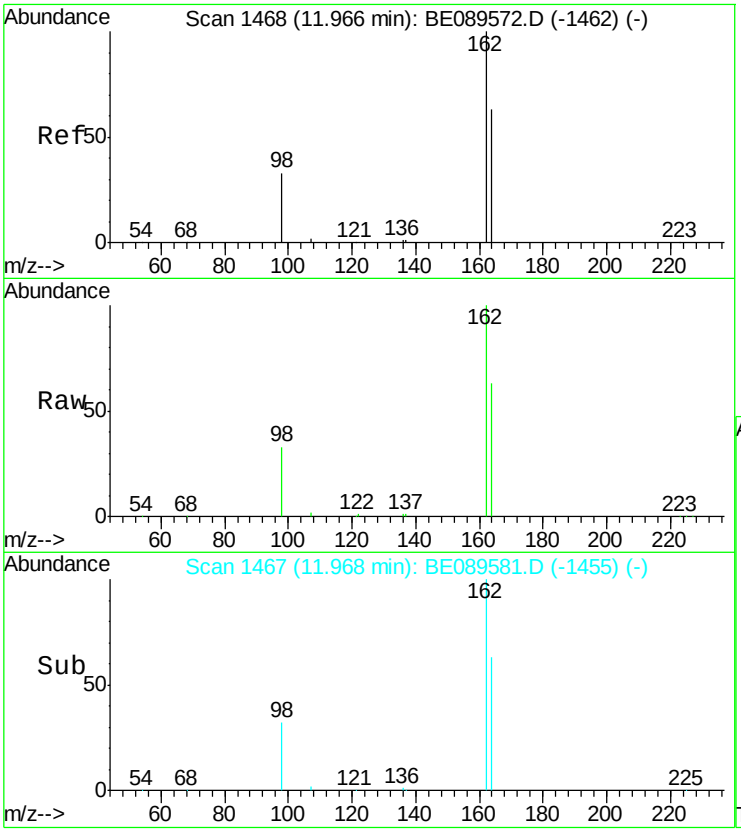




#10
2,4-Dimethylphenol
Concen: 7.77 ng
RT: 11.59 min Scan# 1428
Delta R.T. 0.00 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

Tgt Ion:122 Resp: 143591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 113.6 | 90.9 | 136.3 |
| 121 | 57.4 | 45.4 | 68.2 |



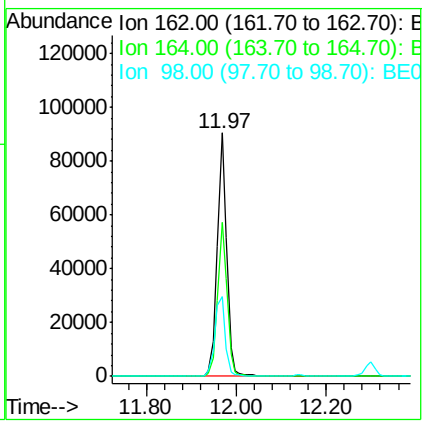


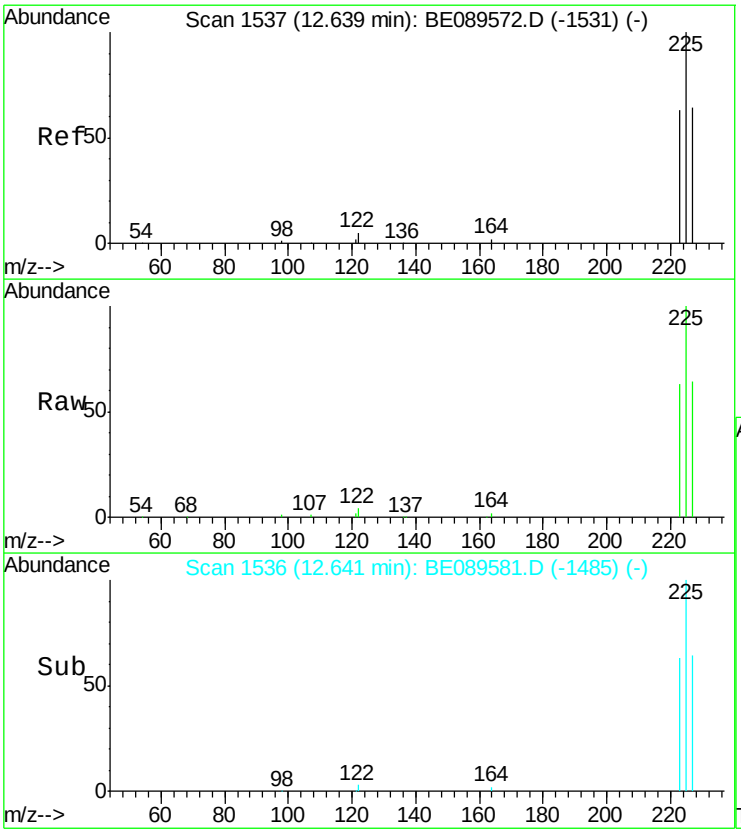

#11
2,4-Dichlorophenol
Concen: 9.02 ng
RT: 11.97 min Scan# 1467
Delta R.T. 0.00 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

**Instrument :**
BNA_E
**ClientSampleId :**
PB81705BSD

Tgt Ion:162 Resp: 130411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 63.2 | 43.4 | 83.4 |
| 98 | 32.5 | 14.6 | 54.6 |

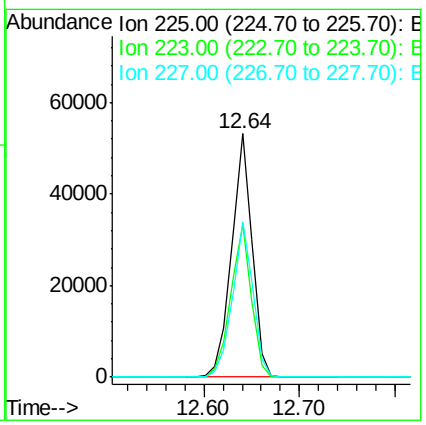


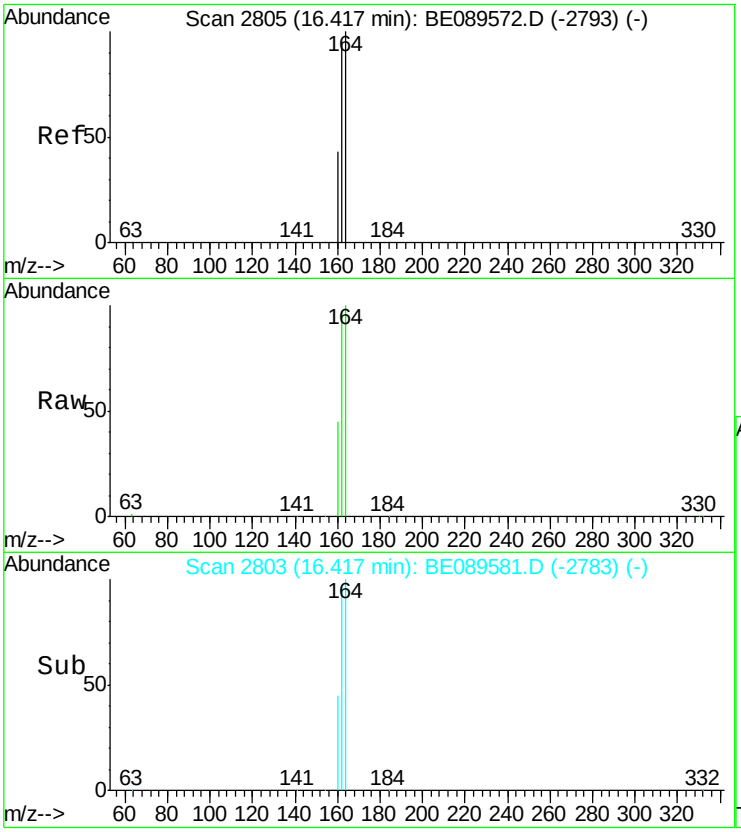




#12
Hexachlorobutadiene
Concen: 8.27 ng
RT: 12.64 min Scan# 1536
Delta R.T. 0.00 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

Tgt Ion:225 Resp: 78768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.9 | 50.4 | 75.6 |
| 227 | 63.8 | 51.0 | 76.6 |



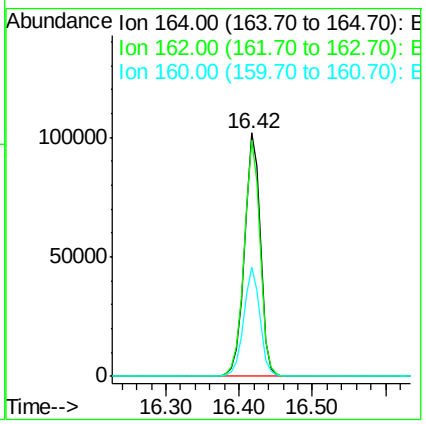


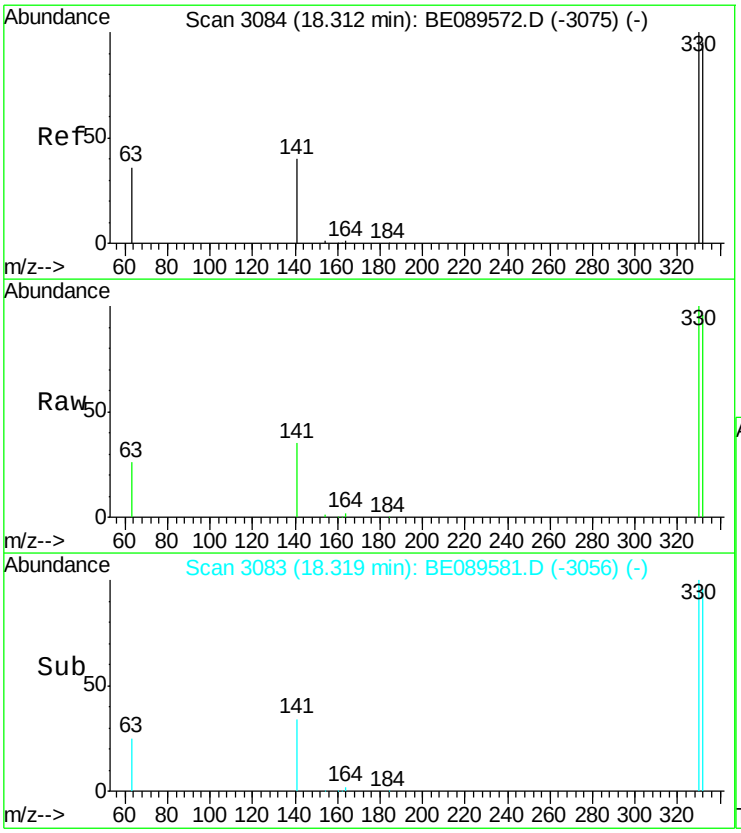

#13
Acenaphthene-d10
Concen: 5.00 ng
RT: 16.42 min Scan# 2803
Delta R.T. -0.00 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

**Instrument :**
BNA_E
**ClientSampleId :**
PB81705BSD

Tgt Ion:164 Resp: 151417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 96.8 | 76.2 | 114.4 |
| 160 | 44.6 | 34.7 | 52.1 |

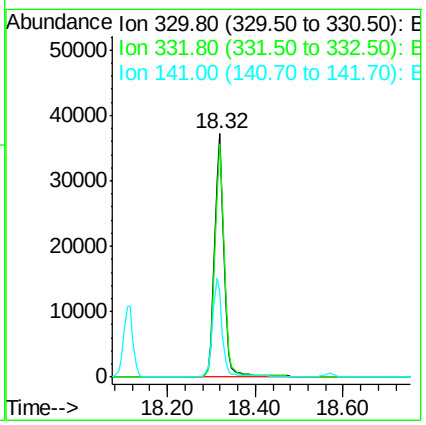


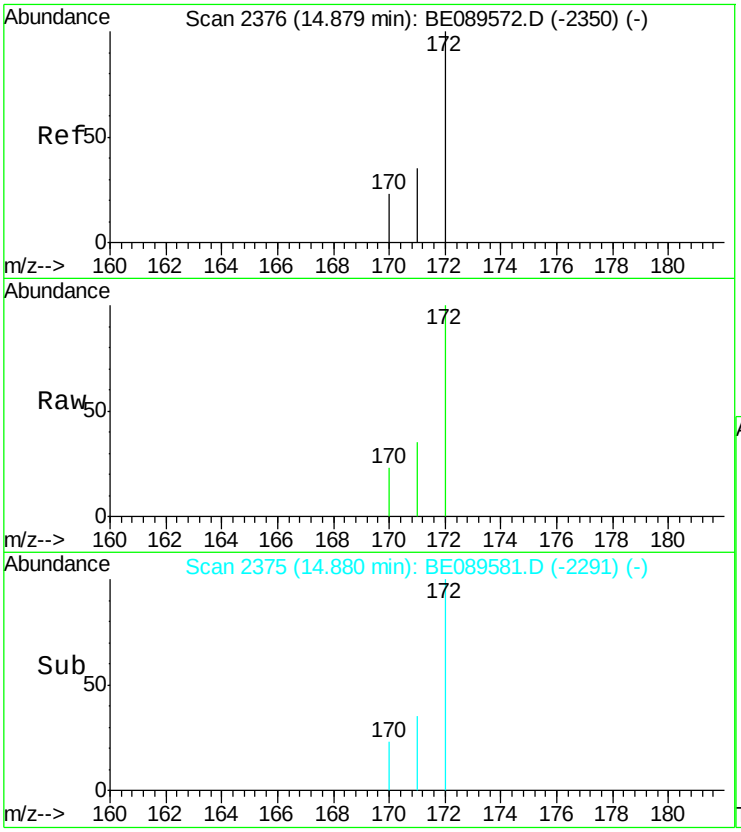




#14
2,4,6-Tribromophenol
Concen: 16.40 ng
RT: 18.32 min Scan# 3083
Delta R.T. 0.01 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

Tgt Ion:330 Resp: 55945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.0 | 78.3 | 117.5 |
| 141 | 41.2 | 33.4 | 50.0 |



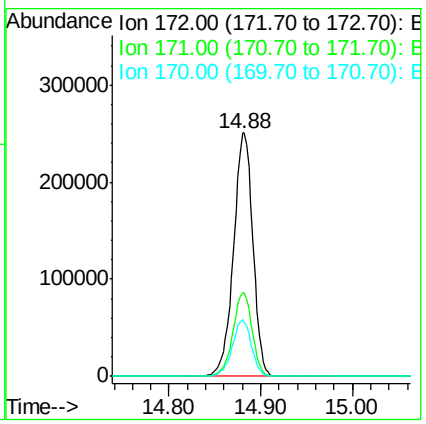


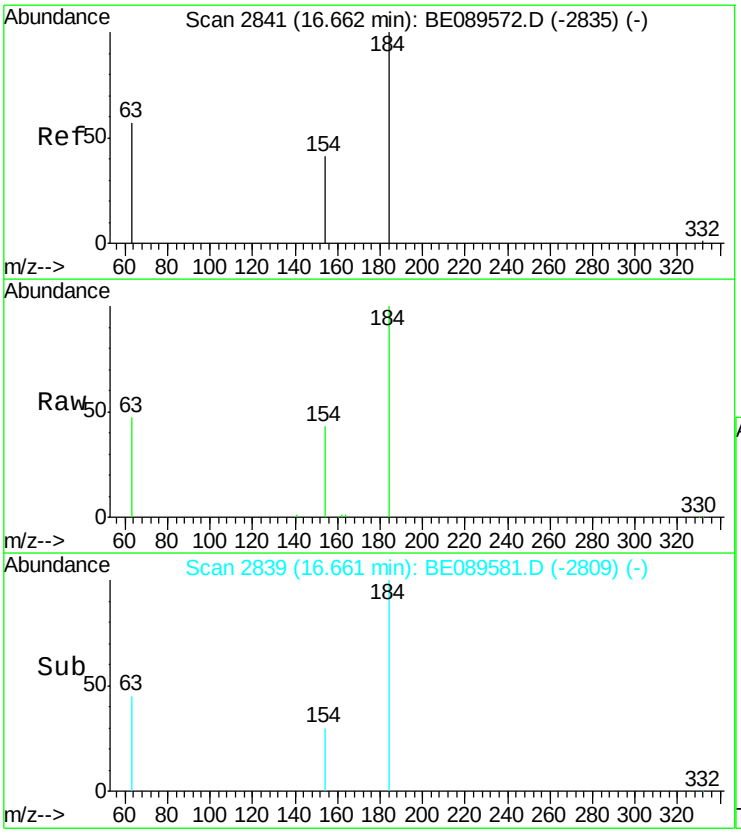

#15
2-Fluorobiphenyl
Concen: 8.92 ng
RT: 14.88 min Scan# 2375
Delta R.T. 0.00 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

**Instrument :**
BNA_E
**ClientSampleId :**
PB81705BSD

Tgt Ion:172 Resp: 364851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.6 | 27.8 | 41.6 |
| 170 | 23.1 | 18.5 | 27.7 |

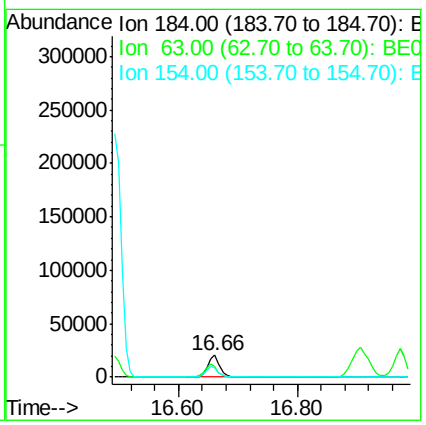


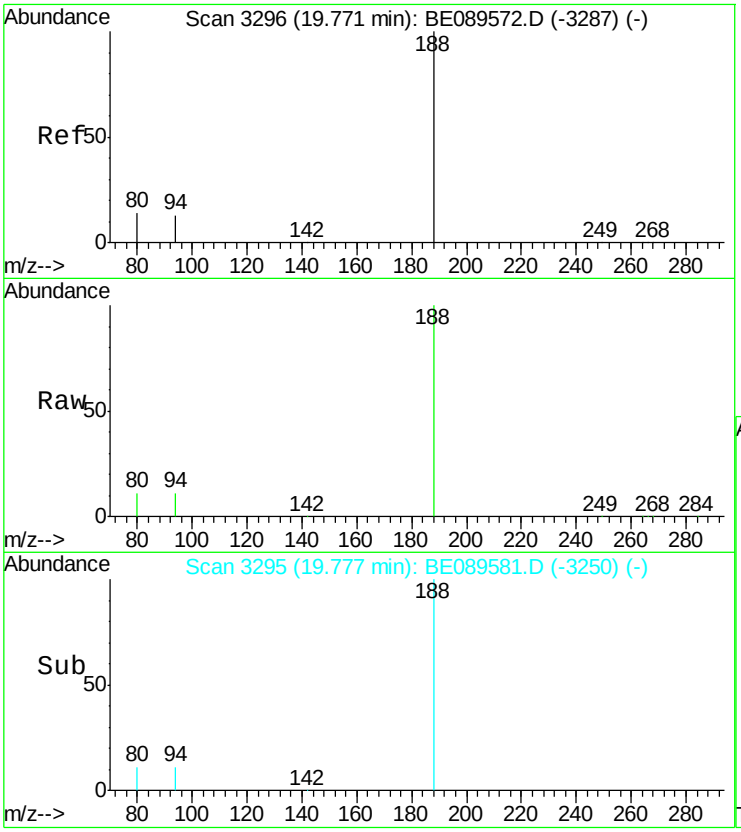




#16
2,4-Dinitrophenol
Concen: 56.07 ng
RT: 16.66 min Scan# 2839
Delta R.T. -0.00 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

Tgt Ion:184 Resp: 29527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 47.0 | 70.8 | 106.2# |
| 154 | 42.6 | 52.9 | 79.3# |



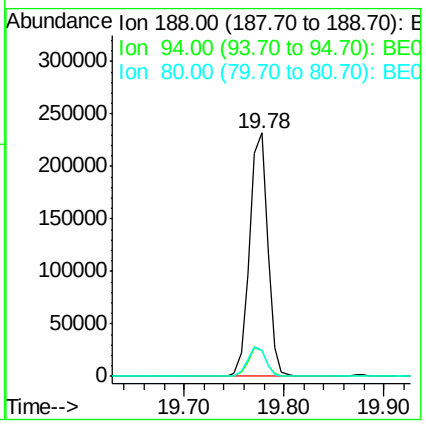


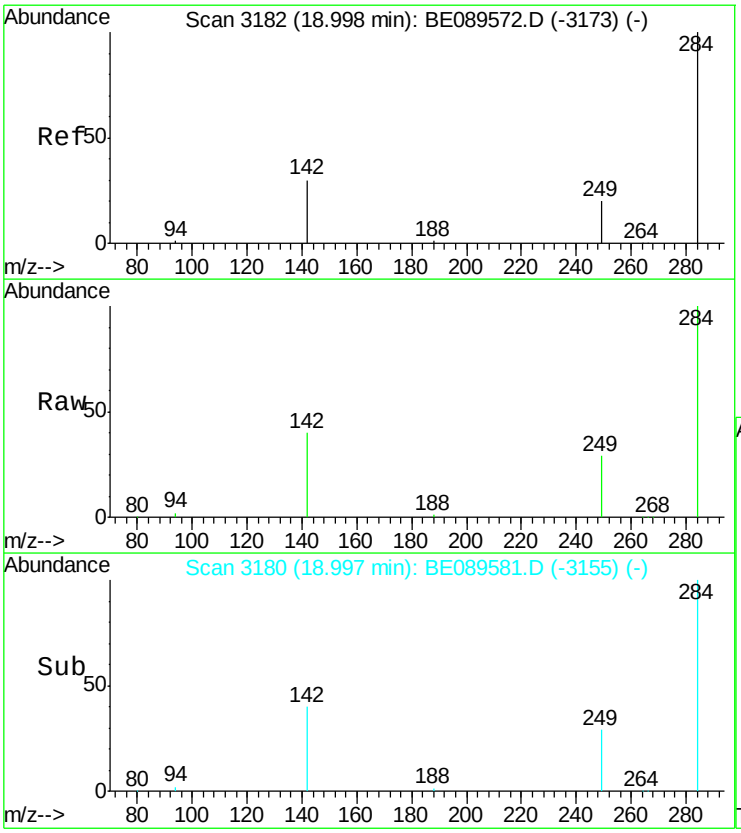

#17
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.78 min Scan# 3295
Delta R.T. 0.01 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

**Instrument :**
BNA_E
**ClientSampleId :**
PB81705BSD

Tgt Ion:188 Resp: 293118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.7 | 10.2 | 15.4 |
| 80 | 10.7 | 11.0 | 16.6# |

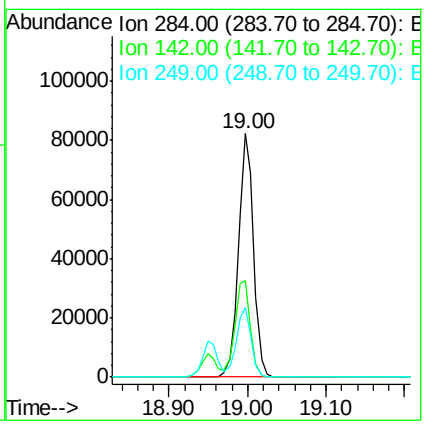


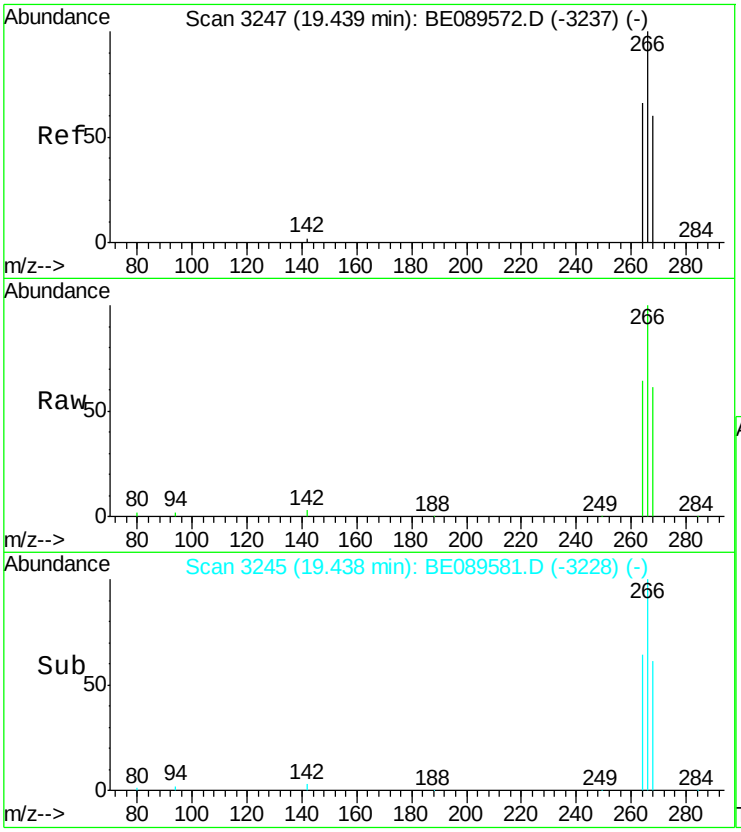




#18
Hexachlorobenzene
Concen: 8.91 ng
RT: 19.00 min Scan# 3180
Delta R.T. -0.00 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

Tgt Ion:284 Resp: 109800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 39.8 | 27.6 | 41.4 |
| 249 | 28.8 | 20.0 | 30.0 |



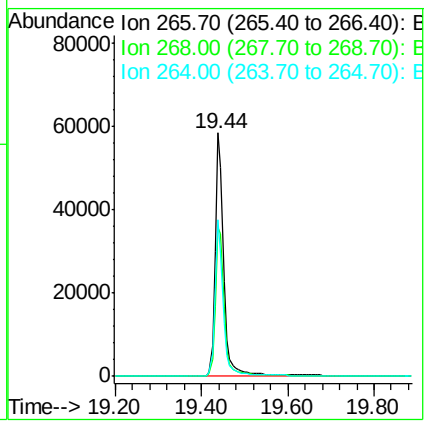


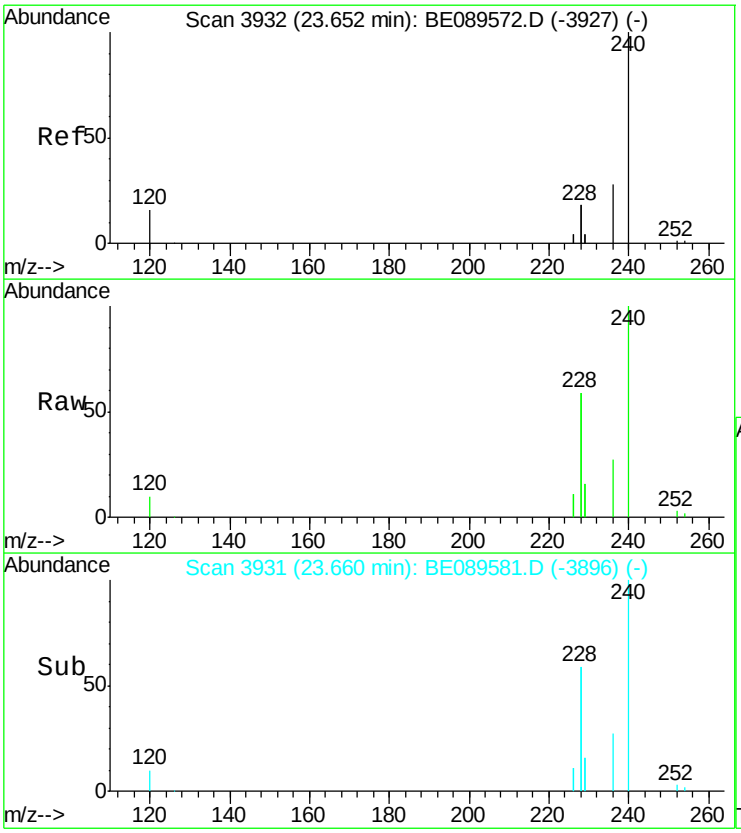

#19
Pentachlorophenol
Concen: 36.91 ng
RT: 19.44 min Scan# 3245
Delta R.T. -0.00 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

**Instrument :**
BNA_E
**ClientSampleId :**
PB81705BSD

Tgt Ion:266 Resp: 82545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 61.1 | 50.2 | 75.4 |
| 264 | 64.2 | 54.4 | 81.6 |

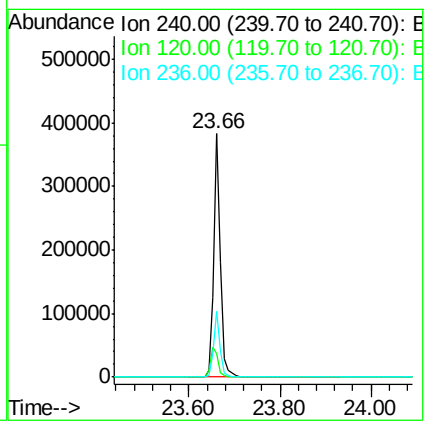


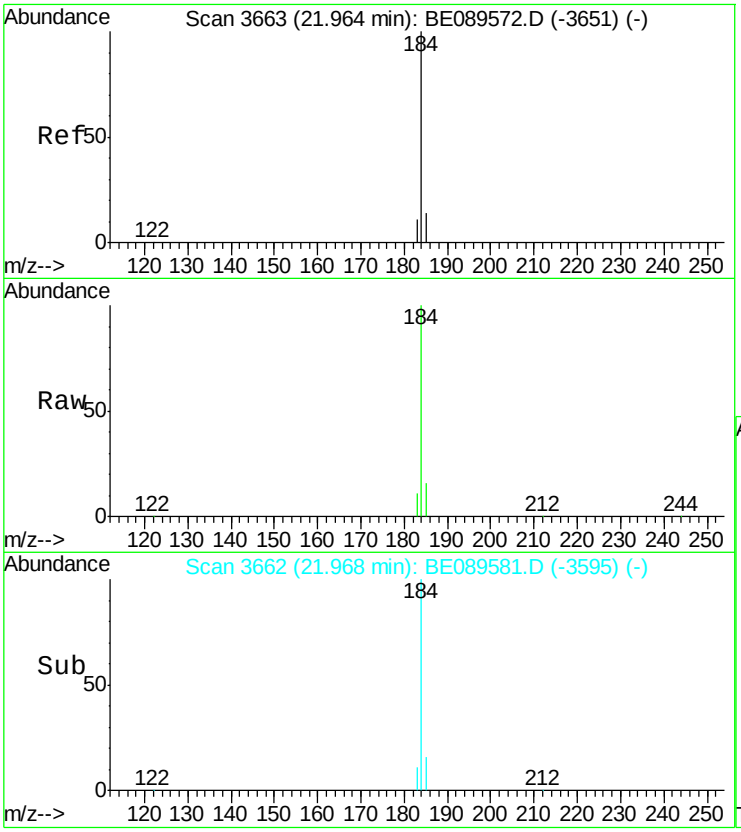




#20
Chrysene-d12
Concen: 5.00 ng
RT: 23.66 min Scan# 3931
Delta R.T. 0.01 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

Tgt Ion:240 Resp: 390314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.8 | 12.7 | 19.1# |
| 236 | 27.0 | 22.7 | 34.1 |



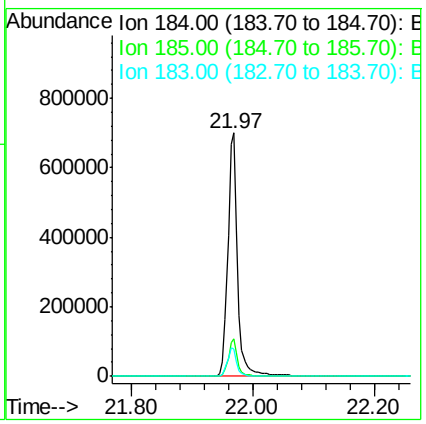


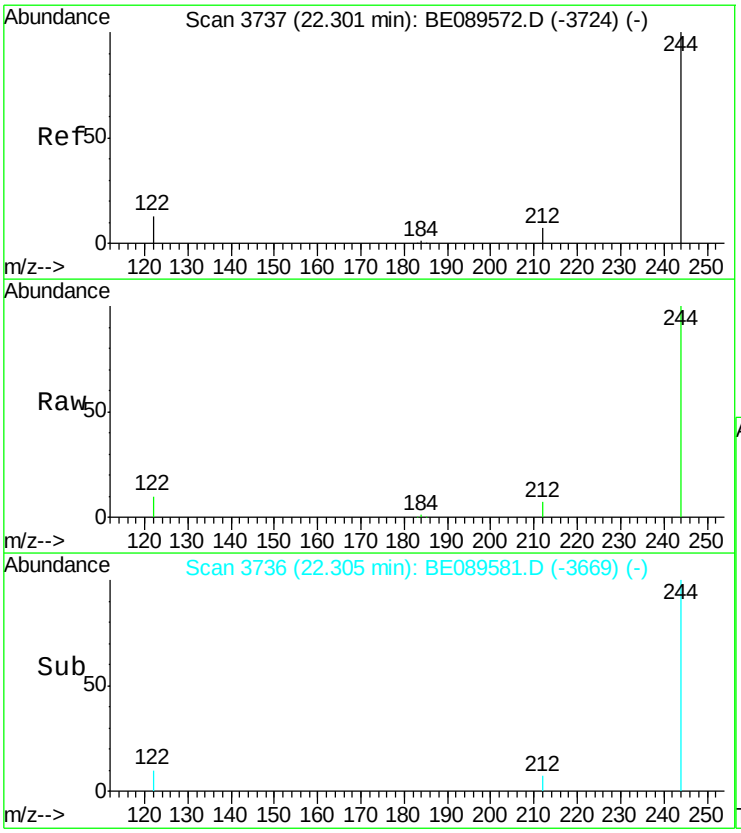

#21
Benzidine
Concen:  22.57 ng
RT: 21.97 min  Scan# 3662
Delta R.T.  0.00 min
Lab File:  BE089581.D
Acq: 16 Feb 2015  23:03

**Instrument :**
BNA_E
**ClientSampleId :**
PB81705BSD

Tgt Ion:184 Resp:  788717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 15.5 | 11.7 | 17.5 |
| 183 | 11.3 | 8.9 | 13.3 |

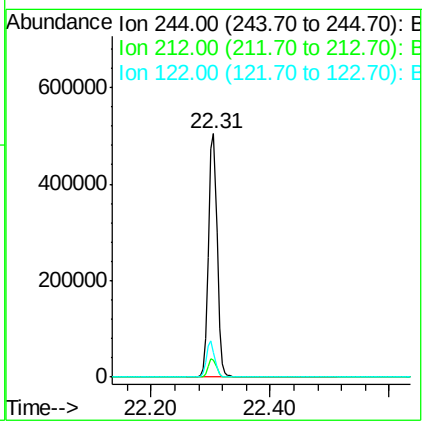


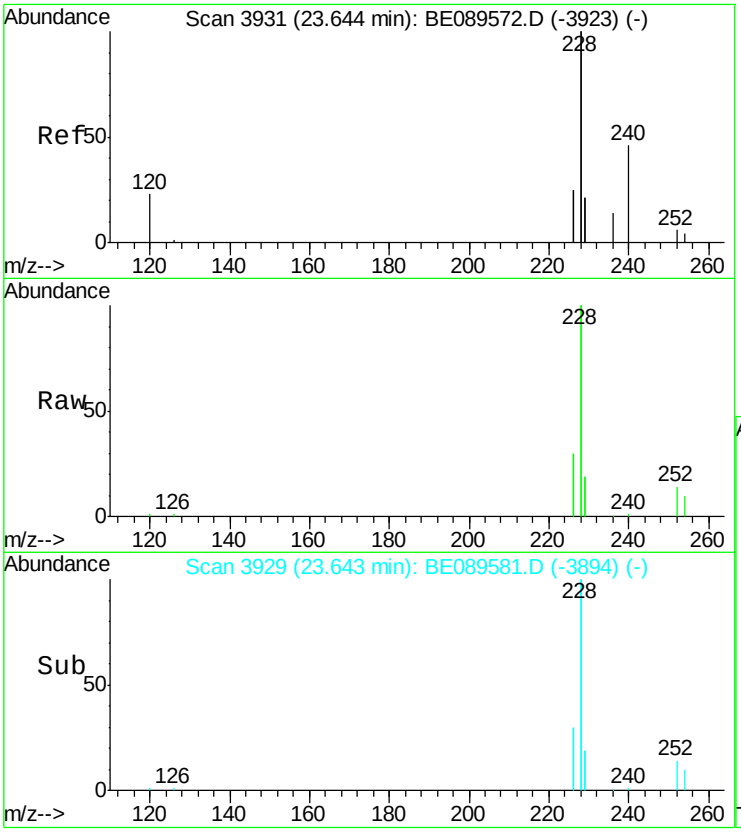




#22
Terphenyl-d14
Concen:  9.06 ng
RT: 22.31 min  Scan# 3736
Delta R.T.  0.00 min
Lab File:  BE089581.D
Acq: 16 Feb 2015  23:03

Tgt Ion:244 Resp:  487435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.1 | 5.9 | 8.9 |
| 122 | 10.2 | 10.2 | 15.2 |



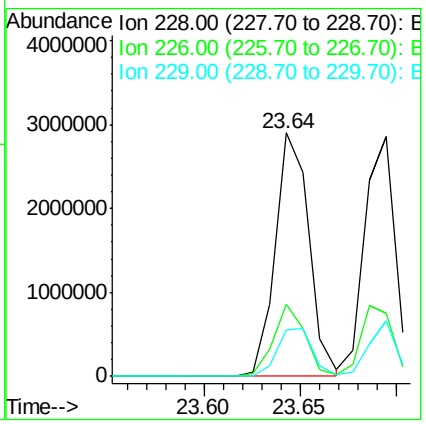


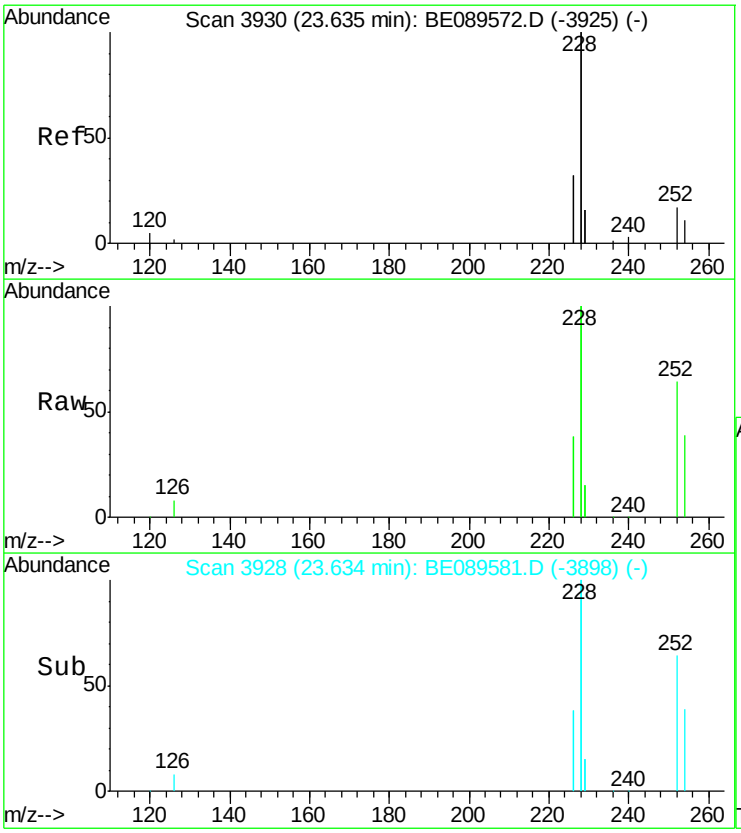

#23
Benzo(a)anthracene
Concen: 9.07 ng
RT: 23.64 min Scan# 3929
Delta R.T. -0.00 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

**Instrument :**
BNA_E
**ClientSampleId :**
PB81705BSD

Tgt Ion:228 Resp: 3506007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.8 | 19.9 | 29.9 |
| 229 | 18.9 | 16.6 | 24.8 |

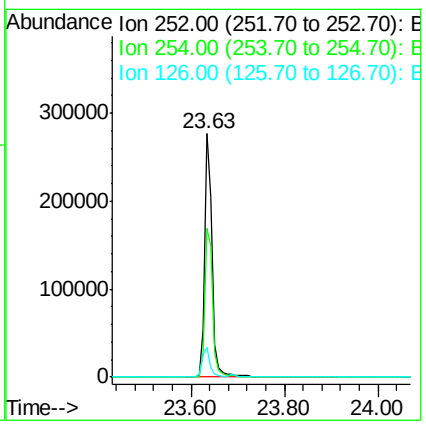


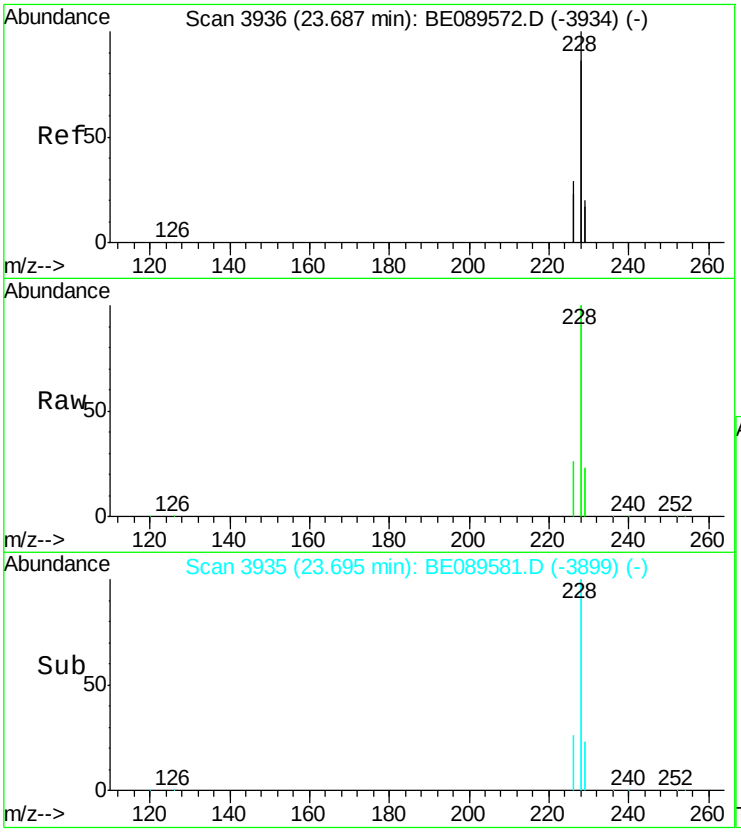




#24
3,3'-Dichlorobenzidine
Concen: 11.26 ng
RT: 23.63 min Scan# 3928
Delta R.T. -0.00 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

Tgt Ion:252 Resp: 316067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 61.0 | 51.0 | 76.4 |
| 126 | 12.4 | 8.3 | 12.5 |



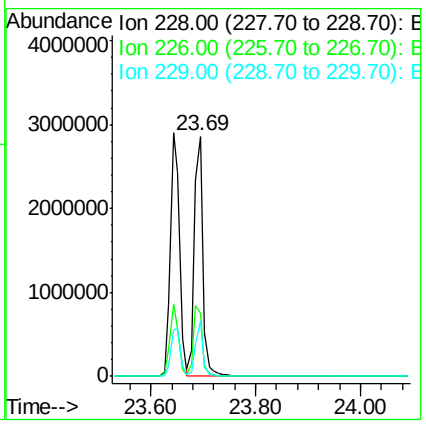


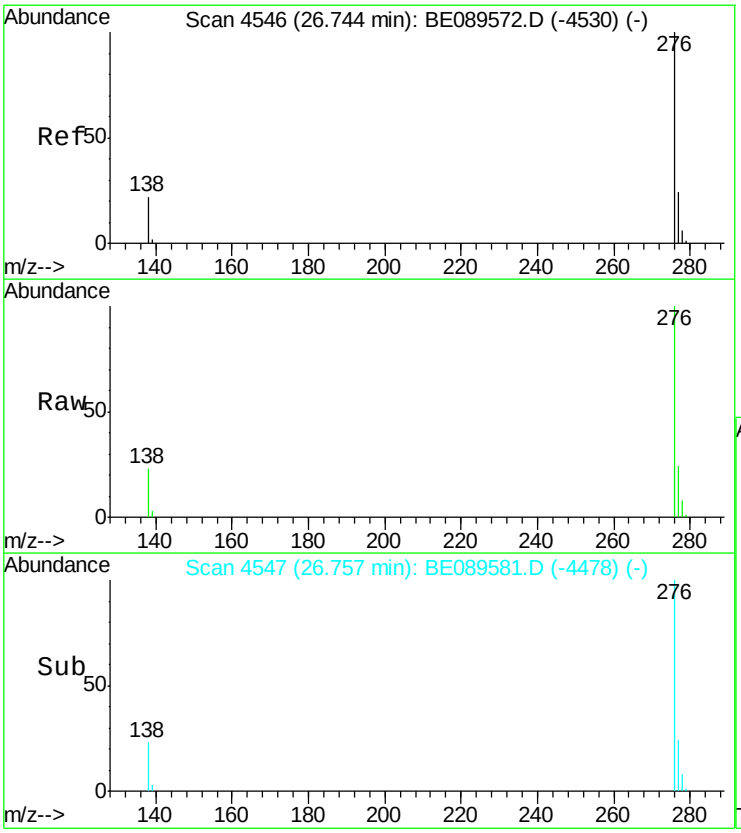

#25
Chrysene
Concen: 8.83 ng
RT: 23.69 min Scan# 3935
Delta R.T. 0.01 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

**Instrument :**
BNA_E
**ClientSampleId :**
PB81705BSD

Tgt Ion:228 Resp: 3279131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 26.4 | 22.9 | 34.3 |
| 229 | 23.0 | 15.8 | 23.6 |

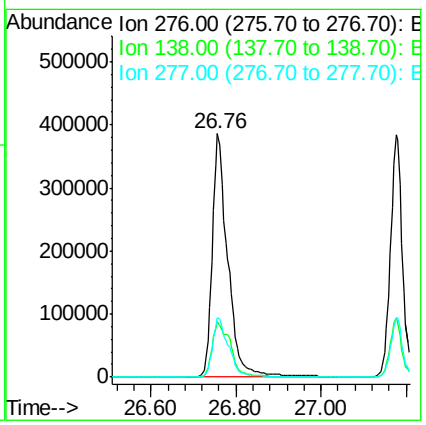


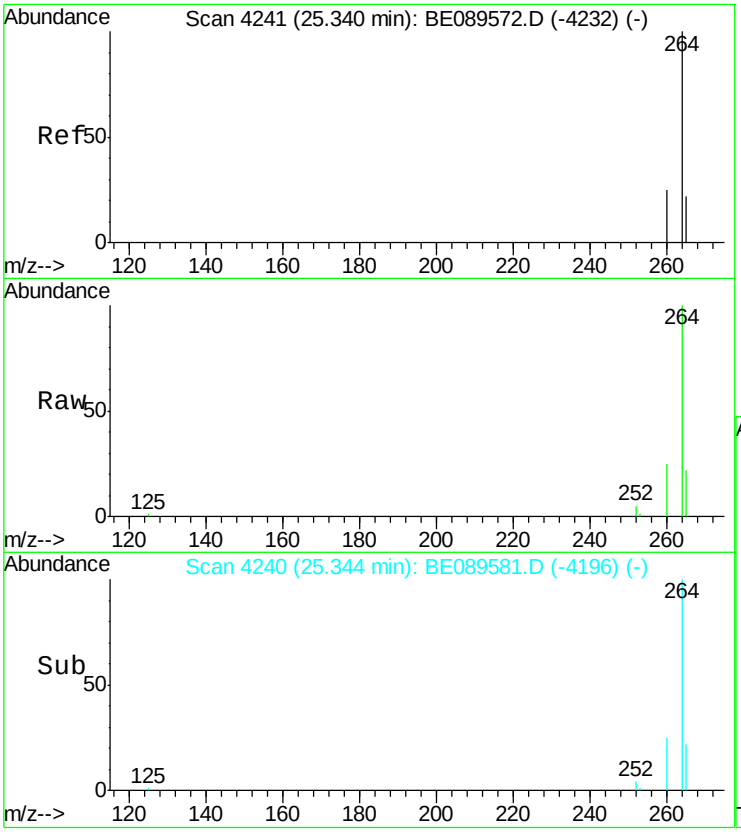




#26
Indeno(1,2,3-cd)pyrene
Concen: 9.91 ng
RT: 26.76 min Scan# 4547
Delta R.T. 0.01 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

Tgt Ion:276 Resp: 955979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.5 | 22.1 | 33.1 |
| 277 | 25.5 | 19.4 | 29.2 |



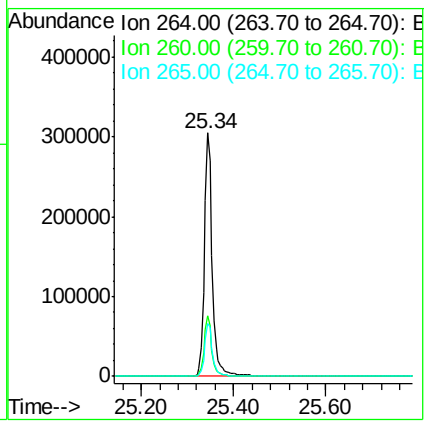


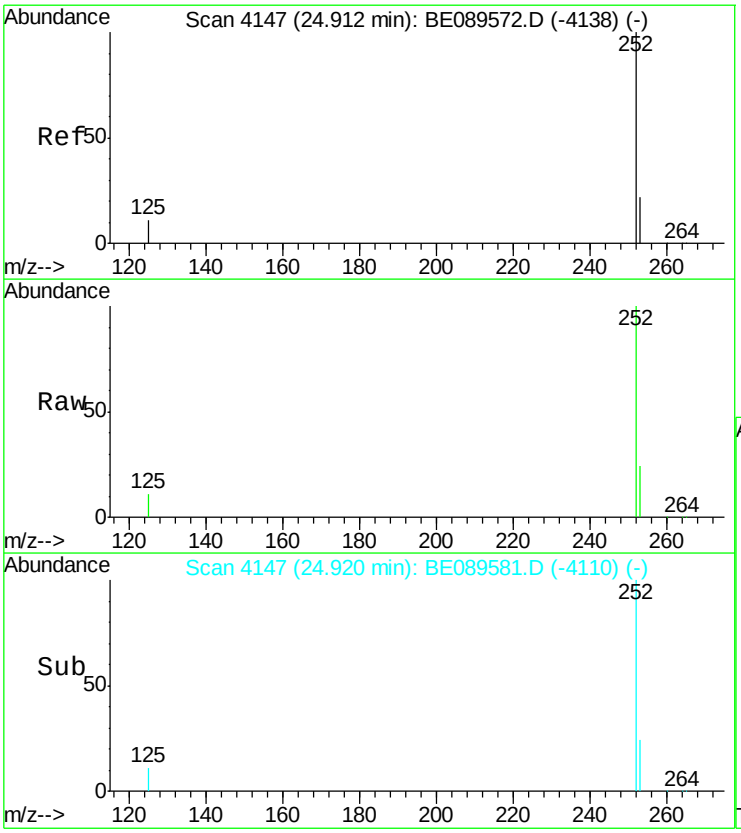

#27
Perylene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4240
Delta R.T. 0.00 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

**Instrument :**
BNA_E
**ClientSampleId :**
PB81705BSD

Tgt Ion:264 Resp: 357370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 25.1 | 19.8 | 29.6 |
| 265 | 21.7 | 17.5 | 26.3 |

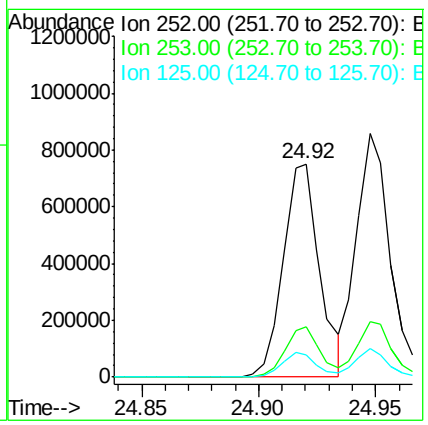


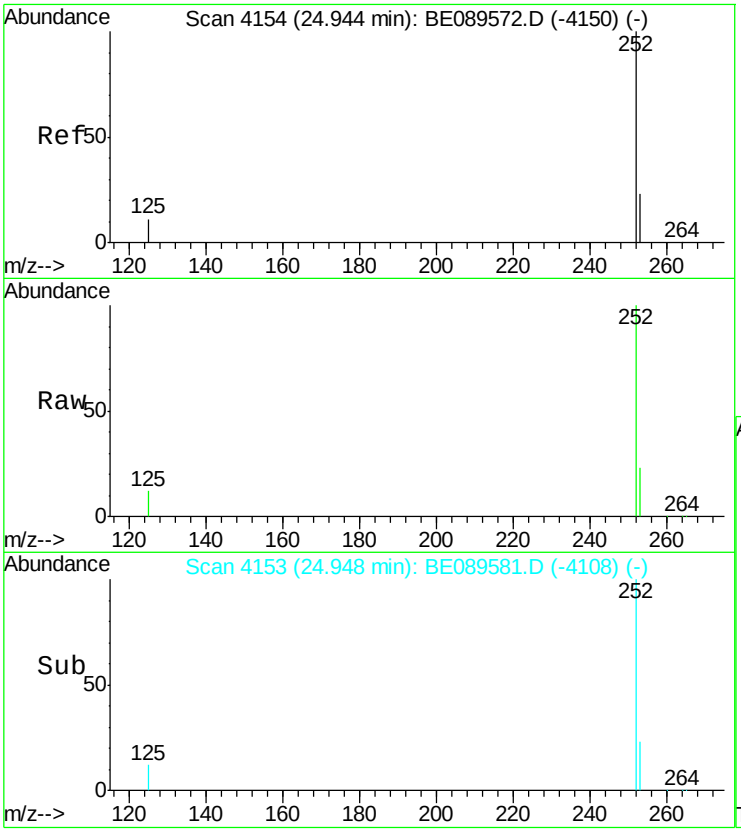




#28
Benzo(b)fluoranthene
Concen: 10.52 ng
RT: 24.92 min Scan# 4147
Delta R.T. 0.01 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

Tgt Ion:252 Resp: 814057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.9 | 17.5 | 26.3 |
| 125 | 10.7 | 9.0 | 13.4 |



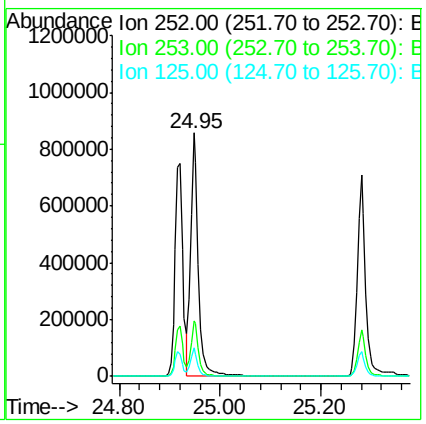


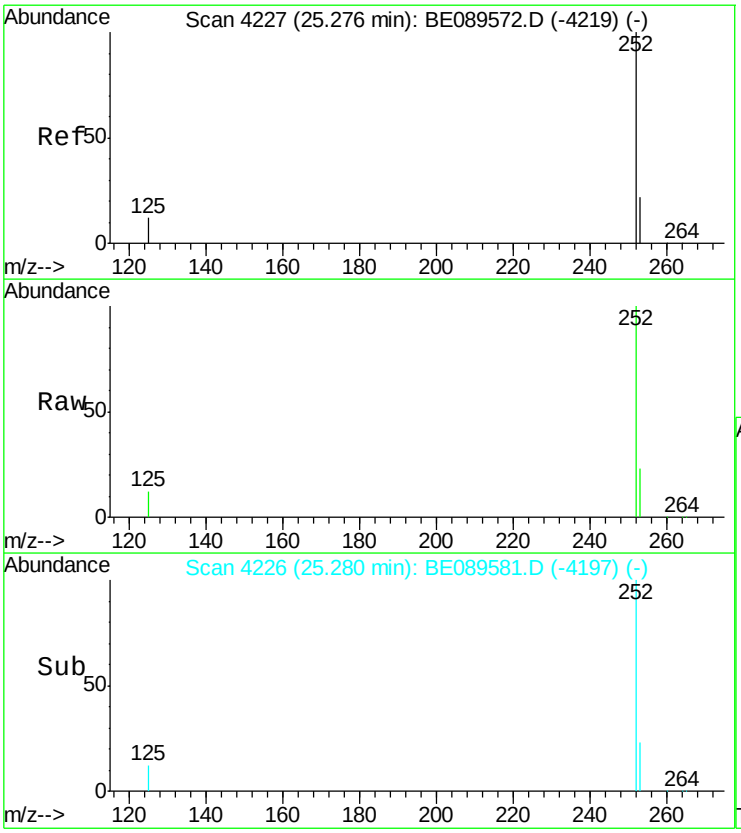

#29
Benzo(k)fluoranthene
Concen: 9.08 ng
RT: 24.95 min Scan# 4153
Delta R.T. 0.00 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

**Instrument :**
BNA_E
**ClientSampleId :**
PB81705BSD

Tgt Ion:252 Resp: 916163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.8 | 18.2 | 27.2 |
| 125 | 11.7 | 8.9 | 13.3 |

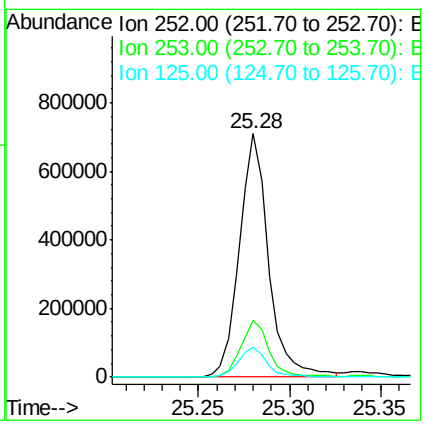


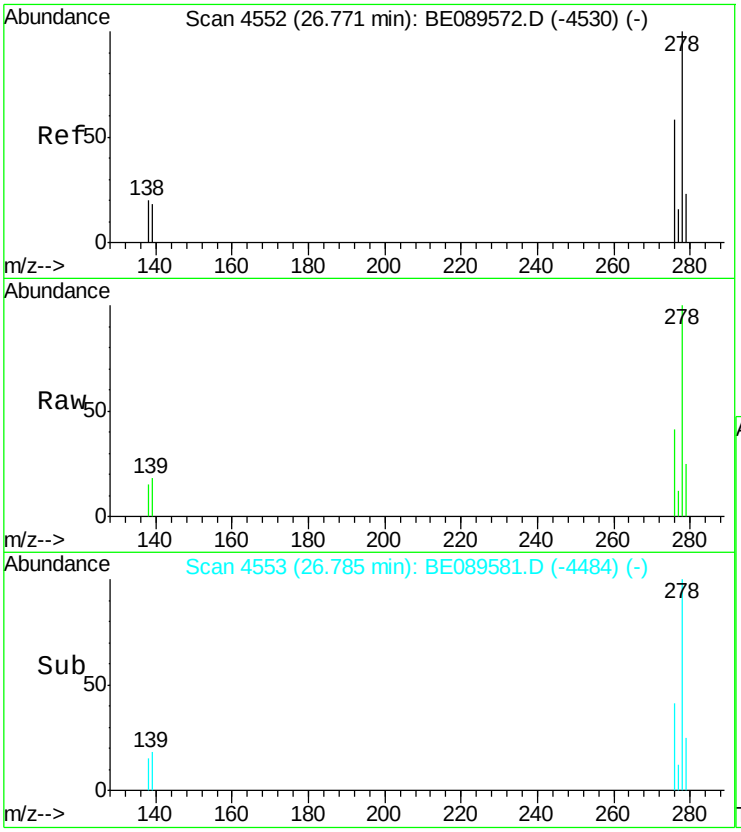




#30
Benzo(a)pyrene
Concen: 10.69 ng
RT: 25.28 min Scan# 4226
Delta R.T. 0.00 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

Tgt Ion:252 Resp: 792692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.1 | 17.9 | 26.9 |
| 125 | 12.3 | 9.5 | 14.3 |






#31
Dibenzo(a,h)anthracene
Concen: 10.56 ng
RT: 26.78 min Scan# 4553
Delta R.T. 0.01 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

**Instrument :**
BNA_E
**ClientSampleId :**
PB81705BSD

Tgt Ion:278 Resp: 797830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 18.0 | 14.7 | 22.1 |
| 279 | 24.6 | 19.0 | 28.4 |