Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
Data File : BE089586.D
Acq On : 8 Feb 2015 11:25
Operator : TP/IZ
Sample : MDL-07-S
Misc : MDL-SOIL-0.2/0.4
ALS Vial : 58 Sample Multiplier: 1

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

Quant Time: Feb 09 00:31:59 2015
Quant Method : Z:\HPCHEM1\BNA_E\methods\SIMPAH-BE020615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Feb 07 04:07:57 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 9.42 | 152 | 31468 | 5.00 | ng | | 0.00 |
| 2) Naphthalene-d8 | 12.33 | 136 | 140972 | 5.00 | ng | | 0.00 |
| 6) Acenaphthene-d10 | 16.51 | 164 | 79132 | 5.00 | ng | | 0.00 |
| 11) Phenanthrene-d10 | 19.84 | 188 | 132016 | 5.00 | ng | | 0.00 |
| 16) Chrysene-d12 | 23.72 | 240 | 114977 | 5.00 | ng | | 0.00 |
| 22) Perylene-d12 | 25.40 | 264 | 103706 | 5.00 | ng | | -0.01 |
| **System Monitoring Compounds** | | | | | | | |
| 3) Nitrobenzene-d5 | 10.68 | 82 | 82378 | 8.80 | ng | | 0.00 |
| 7) 2-Fluorobiphenyl | 14.96 | 172 | 160648 | 7.61 | ng | | 0.00 |
| 18) Terphenyl-d14 | 22.36 | 244 | 166534 | 10.98 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 4) Naphthalene | 12.37 | 128 | 4114 | 0.13 | ng | | 97 |
| 5) 2-Methylnaphthalene | 14.03 | 142 | 2491 | 0.14 | ng | # | 90 |
| 8) Acenaphthylene | 16.16 | 152 | 13204 | 0.10 | ng | | 99 |
| 9) Acenaphthene | 16.58 | 154 | 2261 | 0.11 | ng | | 86 |
| 10) Fluorene | 17.83 | 166 | 2570 | 0.11 | ng | | 96 |
| 12) Pentachlorophenol | 19.51 | 266 | 94 | 0.63 | ng | | 92 |
| 13) Phenanthrene | 19.89 | 178 | 4313 | 0.13 | ng | | 100 |
| 14) Anthracene | 19.98 | 178 | 3331 | 0.12 | ng | | 99 |
| 15) Fluoranthene | 21.78 | 202 | 3086 | 0.10 | ng | | 96 |
| 17) Pyrene | 22.10 | 202 | 3295 | 0.13 | ng | | 99 |
| 19) Benzo(a)anthracene | 23.70 | 228 | 10959 | 0.11 | ng | | 97 |
| 20) Chrysene | 23.70 | 228 | 10959 | 0.11 | ng | | 99 |
| 21) Indeno(1,2,3-cd)pyrene | 26.83 | 276 | 6898 | 0.05 | ng | | 96 |
| 23) Benzo(b)fluoranthene | 24.97 | 252 | 1345 | 0.07 | ng | # | 90 |
| 24) Benzo(k)fluoranthene | 25.00 | 252 | 2804 | 0.11 | ng | # | 94 |
| 25) Benzo(a)pyrene | 25.34 | 252 | 1476 | 0.07 | ng | # | 89 |
| 26) Dibenzo(a,h)anthracene | 26.87 | 278 | 1199 | 0.05 | ng | # | 80 |
| 27) Benzo(g,h,i)perylene | 27.26 | 276 | 7878 | 0.08 | ng | # | 90 |

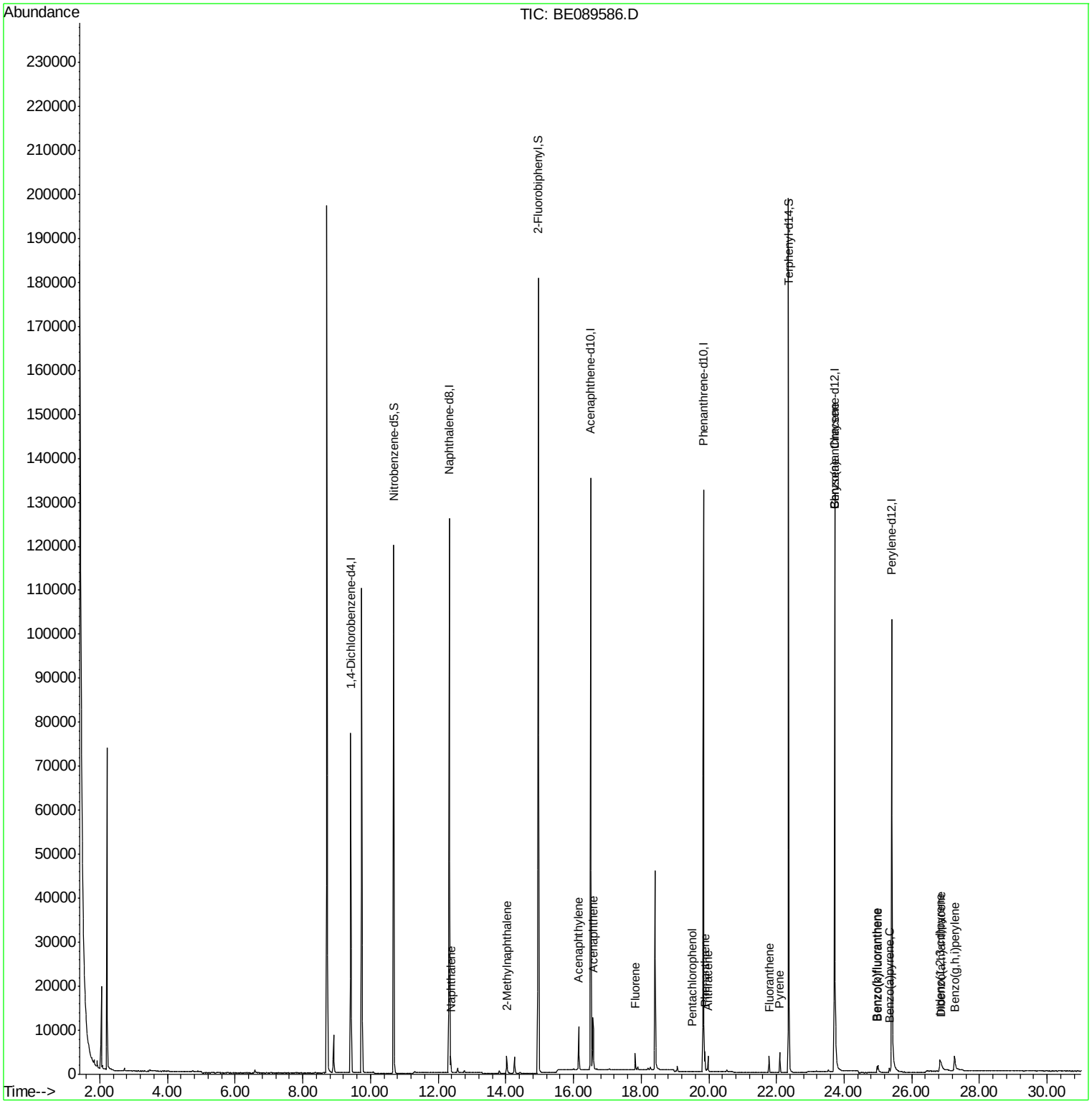
(#) = qualifier out of range (m) = manual integration (+) = signals summed

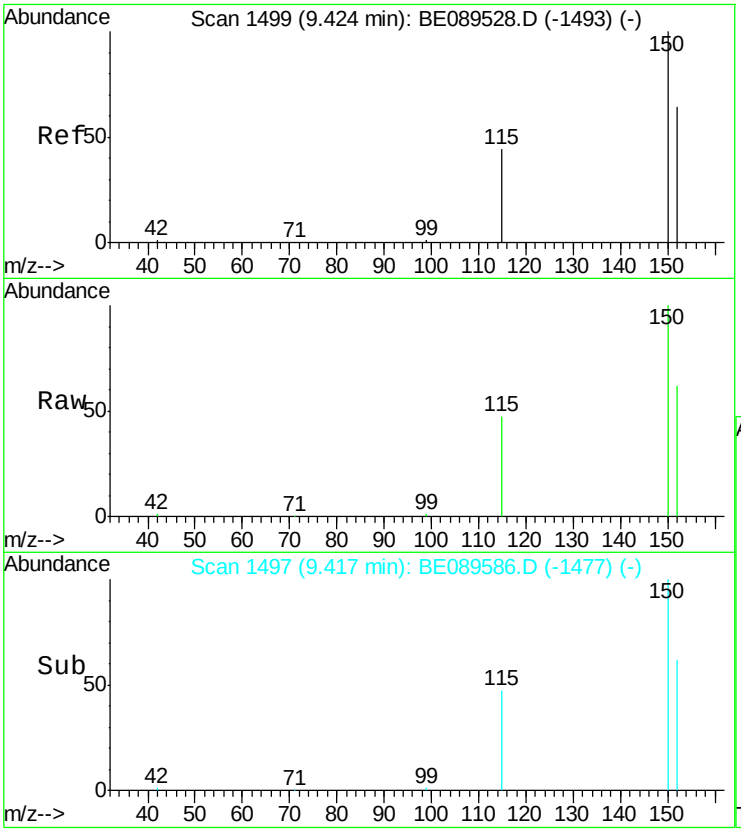
Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
Data File : BE089586.D
Acq On : 8 Feb 2015 11:25
Operator : TP/IZ
Sample : MDL-07-S
Misc : MDL-SOIL-0.2/0.4
ALS Vial : 58 Sample Multiplier: 1

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

Quant Time: Feb 09 00:31:59 2015
Quant Method : Z:\HPCHEM1\BNA_E\methods\SIMPAH-BE020615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Feb 07 04:07:57 2015
Response via : Initial Calibration



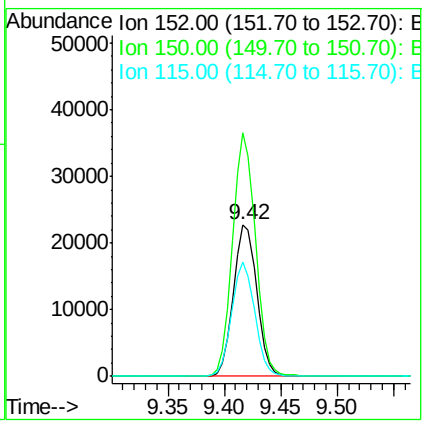


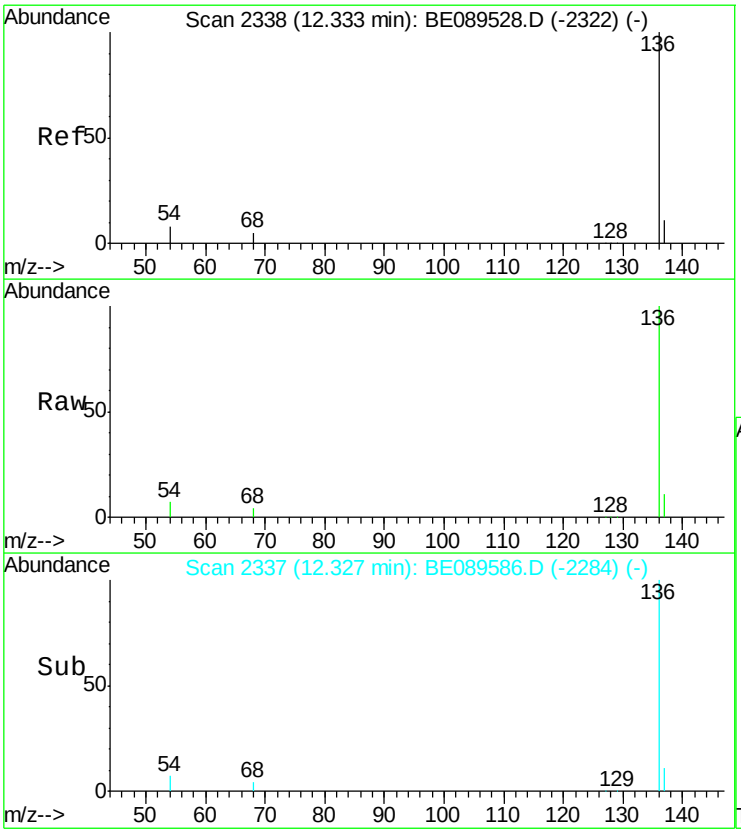

#1
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 9.42 min Scan# 1497
Delta R.T. -0.01 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

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

Tgt Ion:152 Resp: 31468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 160.7 | 125.7 | 188.5 |
| 115 | 75.7 | 55.6 | 83.4 |

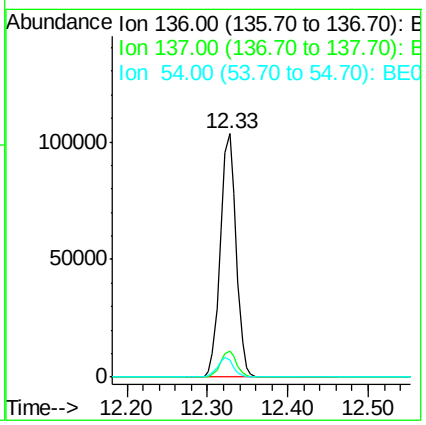


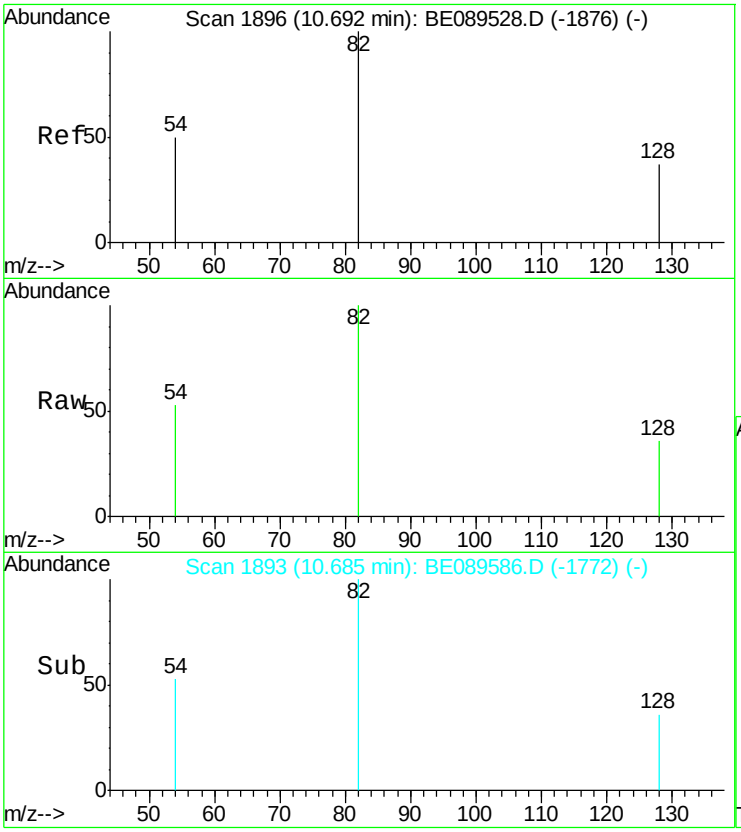




#2
Naphthalene-d8
Concen: 5.00 ng
RT: 12.33 min Scan# 2337
Delta R.T. -0.01 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

Tgt Ion:136 Resp: 140972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.7 | 8.7 | 13.1 |
| 54 | 6.8 | 6.1 | 9.1 |



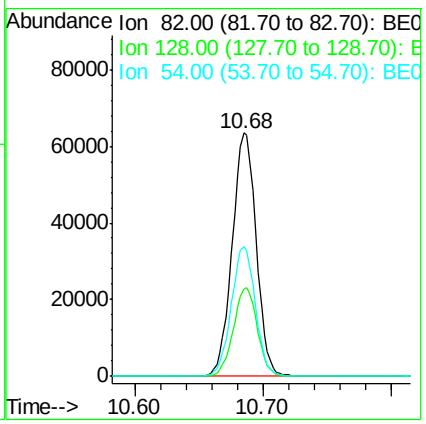


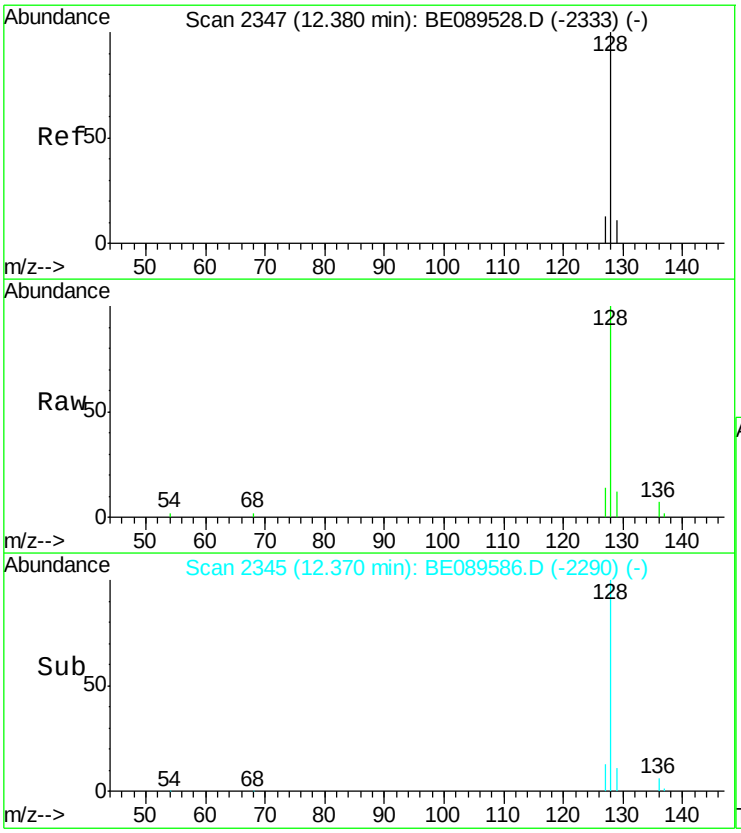

#3
Nitrobenzene-d5
Concen: 8.80 ng
RT: 10.68 min Scan# 1893
Delta R.T. -0.01 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

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

Tgt Ion: 82 Resp: 82378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 36.0 | 30.2 | 45.4 |
| 54 | 53.5 | 40.6 | 60.8 |

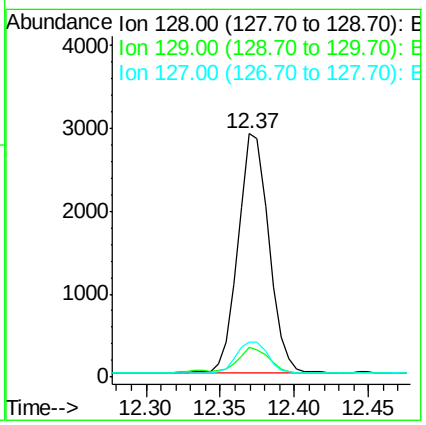


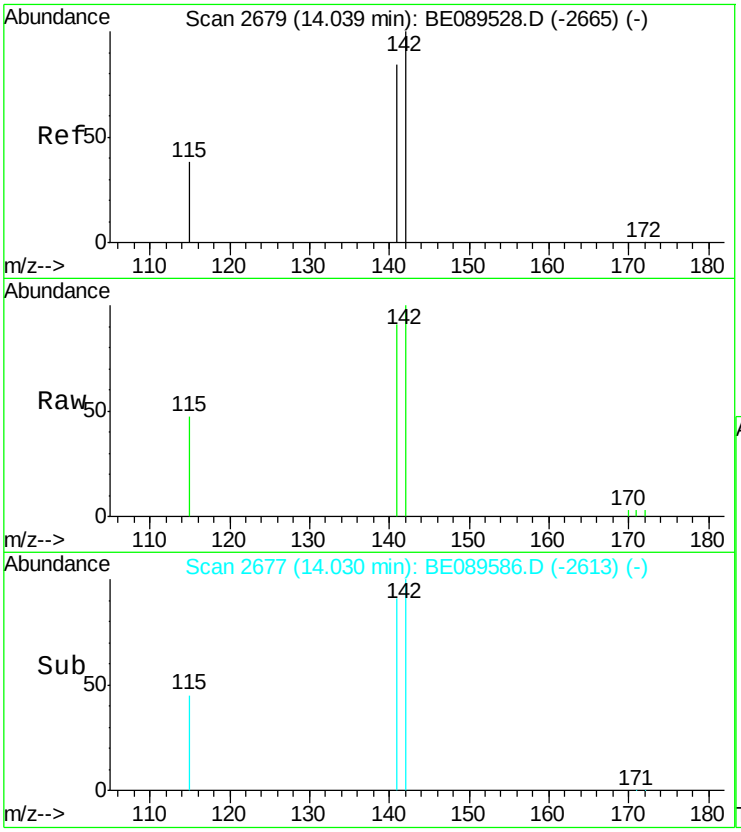




#4
Naphthalene
Concen: 0.13 ng
RT: 12.37 min Scan# 2345
Delta R.T. -0.01 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

Tgt Ion:128 Resp: 4114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.4 | 9.1 | 13.7 |
| 127 | 14.2 | 10.5 | 15.7 |



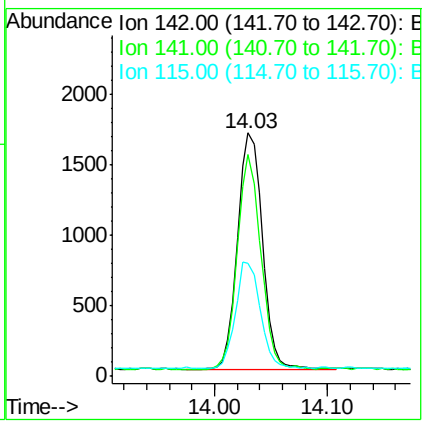


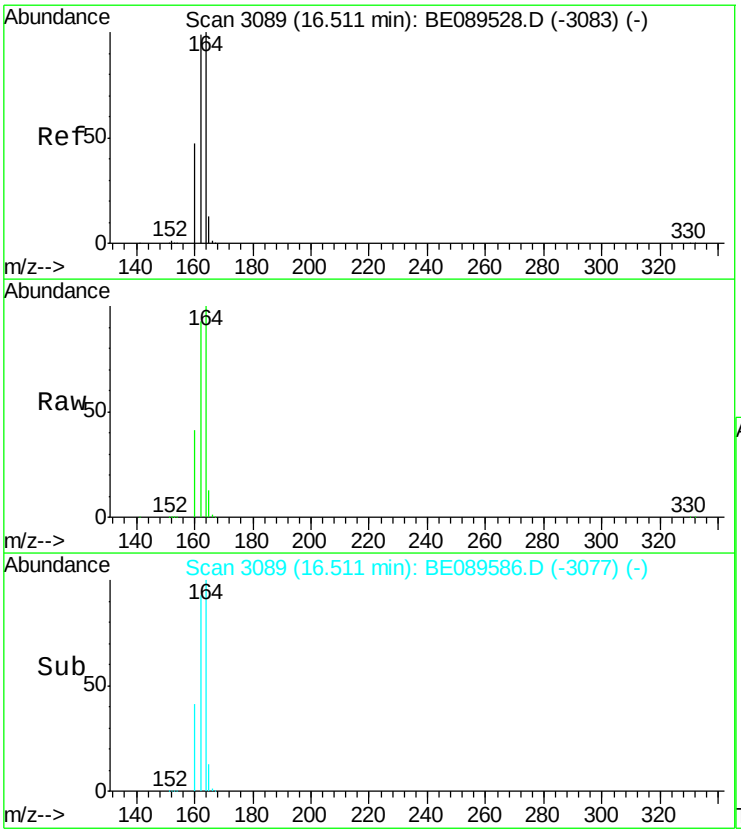

#5
2-Methylnaphthalene
Concen: 0.14 ng
RT: 14.03 min Scan# 2677
Delta R.T. -0.01 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

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

Tgt Ion:142 Resp: 2491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.0 | 67.0 | 100.6 |
| 115 | 46.6 | 30.6 | 45.8# |

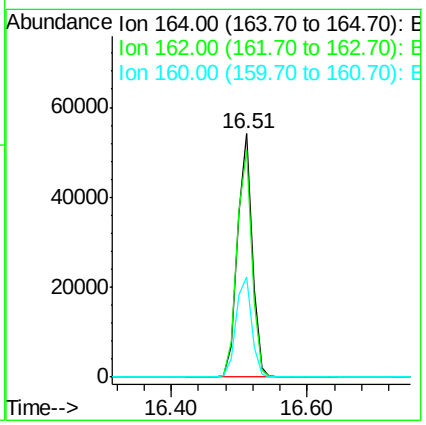


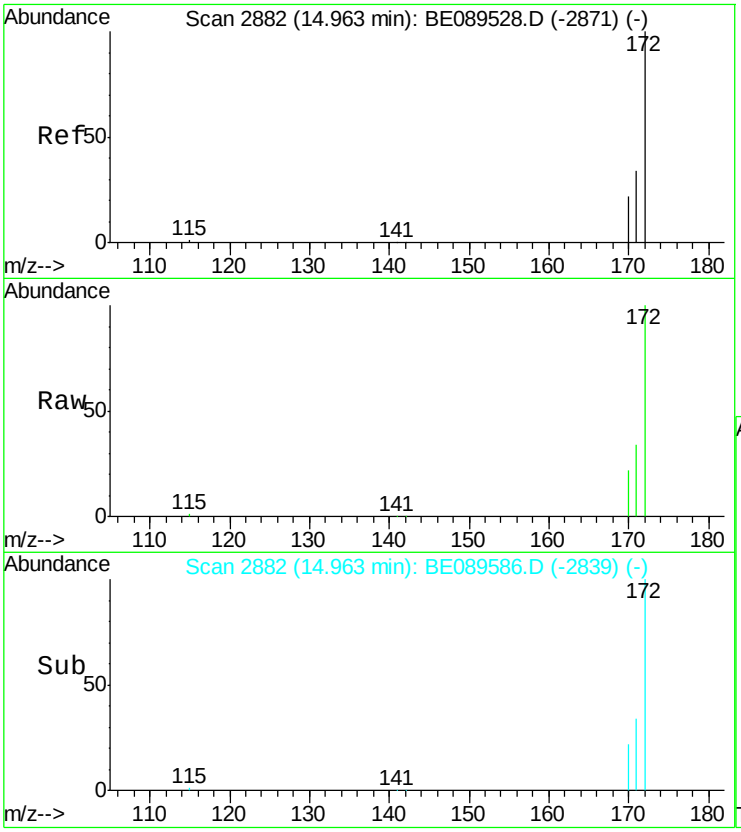




#6
Acenaphthene-d10
Concen: 5.00 ng
RT: 16.51 min Scan# 3089
Delta R.T. -0.00 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

Tgt Ion:164 Resp: 79132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 93.3 | 79.5 | 119.3 |
| 160 | 41.3 | 37.6 | 56.4 |



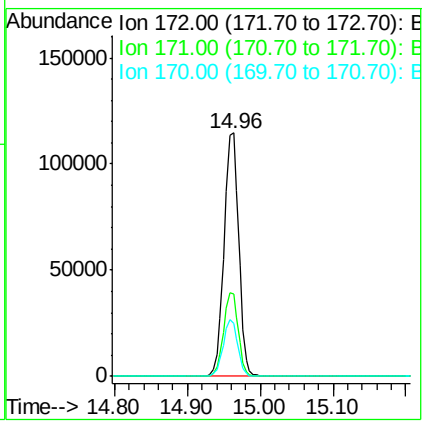


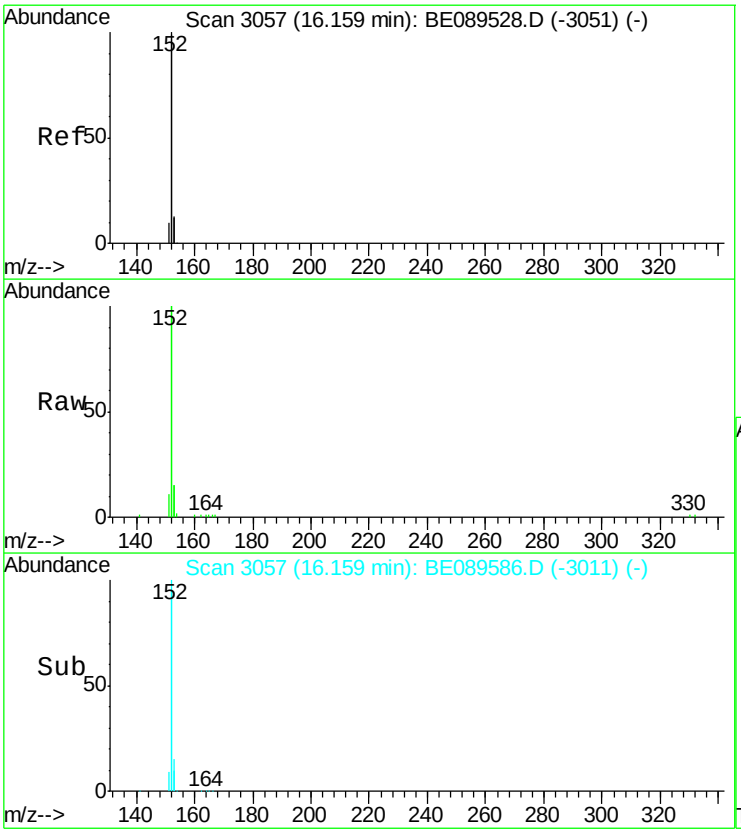

#7
2-Fluorobiphenyl
Concen: 7.61 ng
RT: 14.96 min Scan# 2882
Delta R.T. -0.00 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

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

Tgt Ion:172 Resp: 160648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.0 | 27.7 | 41.5 |
| 170 | 21.7 | 18.3 | 27.5 |

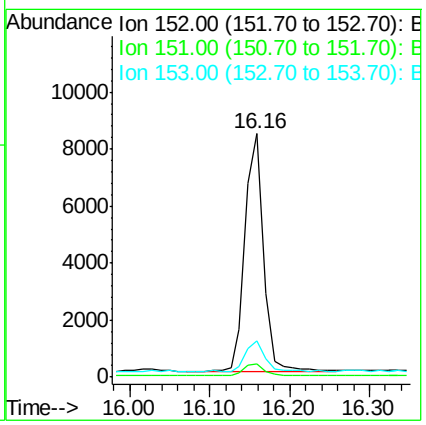


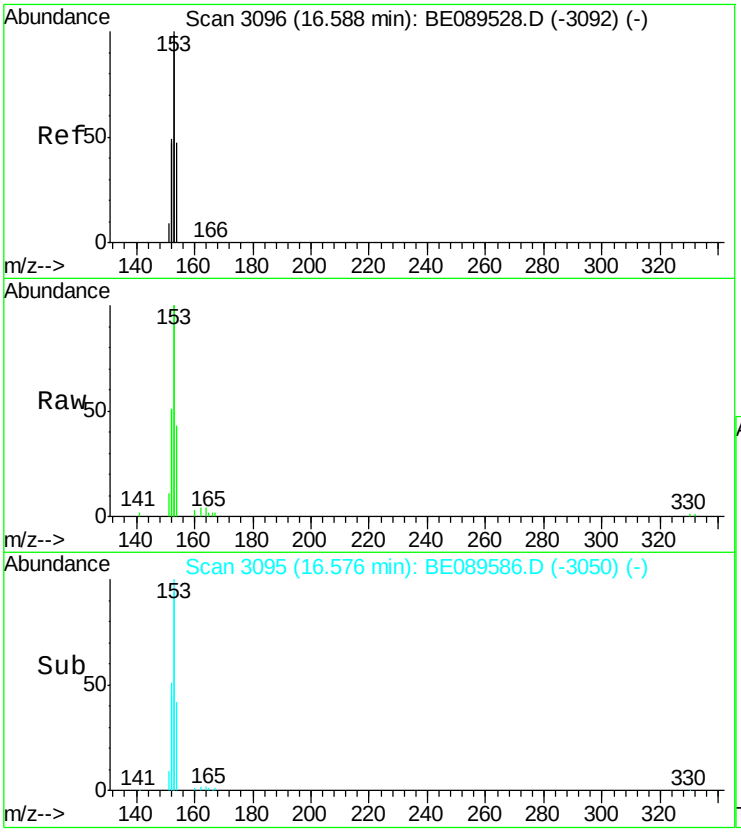




#8
Acenaphthylene
Concen: 0.10 ng
RT: 16.16 min Scan# 3057
Delta R.T. -0.00 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

Tgt Ion:152 Resp: 13204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 5.4 | 4.0 | 6.0 |
| 153 | 13.5 | 10.6 | 15.8 |



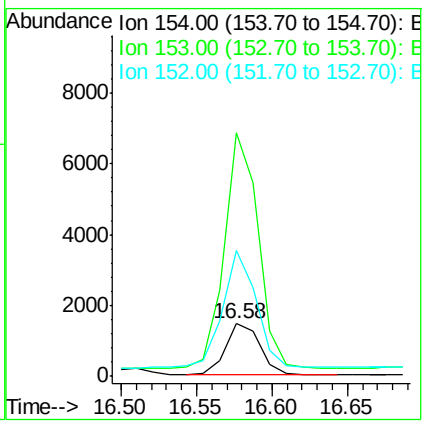


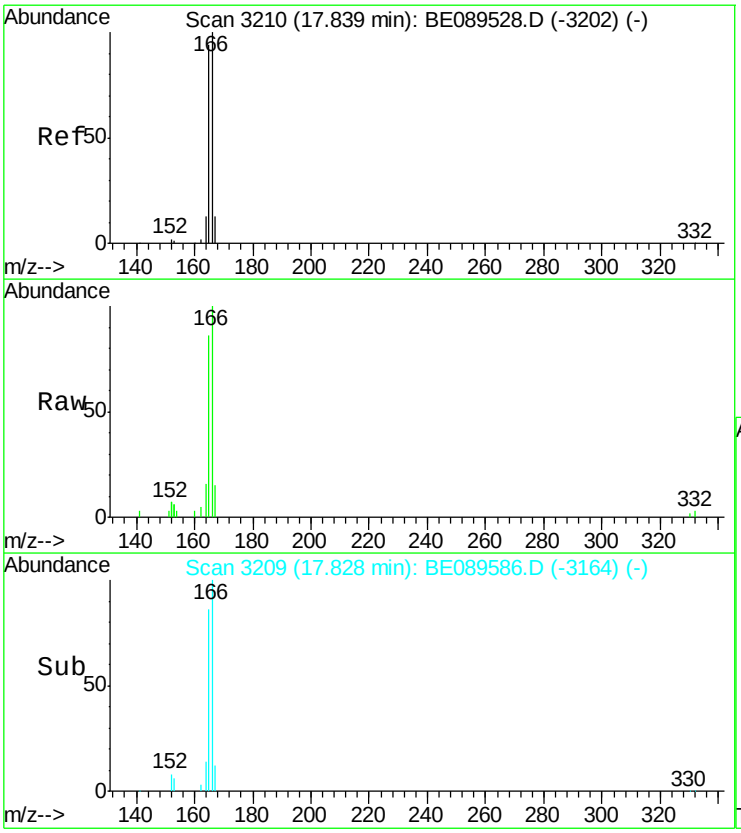

#9
Acenaphthene
Concen: 0.11 ng
RT: 16.58 min Scan# 3095
Delta R.T. -0.01 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

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

Tgt Ion:154 Resp: 2261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 455.8 | 340.8 | 511.2 |
| 152 | 233.5 | 165.5 | 248.3 |

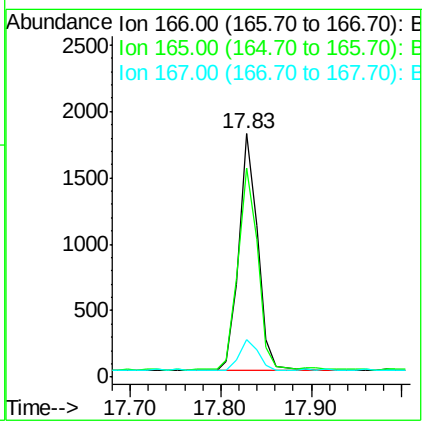


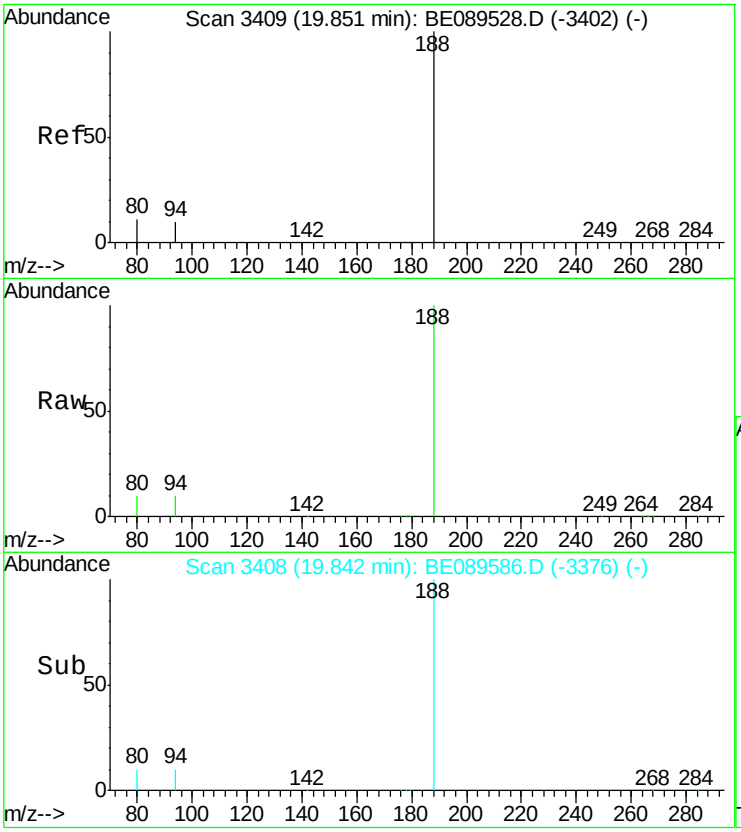




#10
Fluorene
Concen: 0.11 ng
RT: 17.83 min Scan# 3209
Delta R.T. -0.01 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

Tgt Ion:166 Resp: 2570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 90.5 | 75.5 | 113.3 |
| 167 | 13.5 | 10.9 | 16.3 |



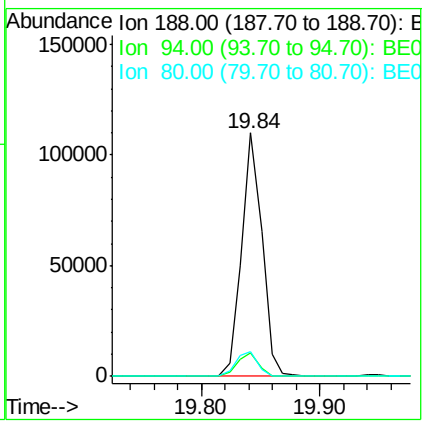


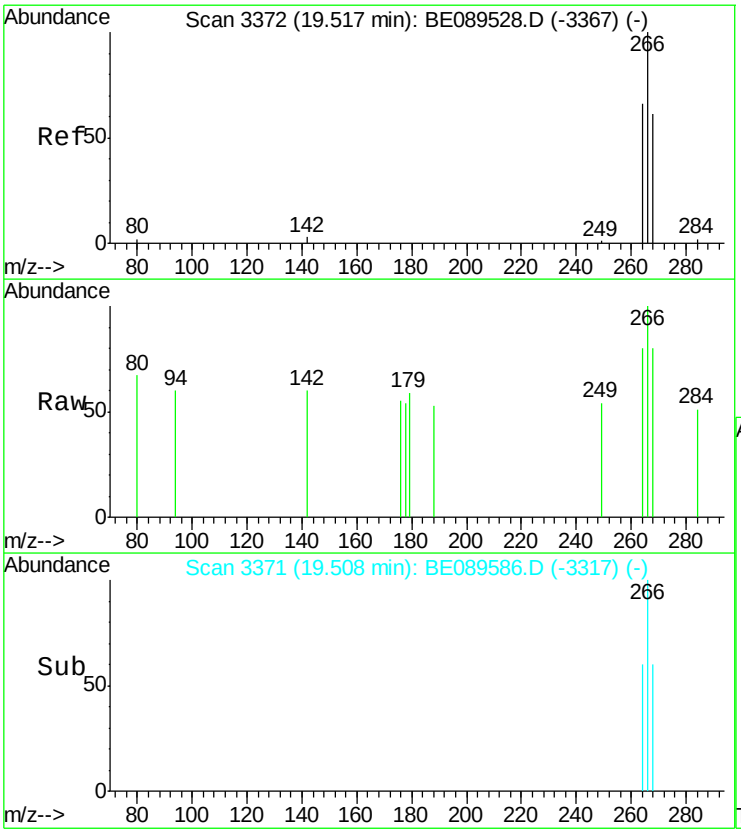

#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.84 min Scan# 3408
Delta R.T. -0.01 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

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

Tgt Ion:188 Resp: 132016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.6 | 8.4 | 12.6 |
| 80 | 10.3 | 8.6 | 12.8 |

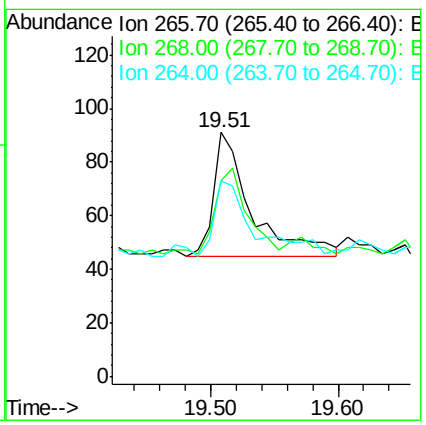


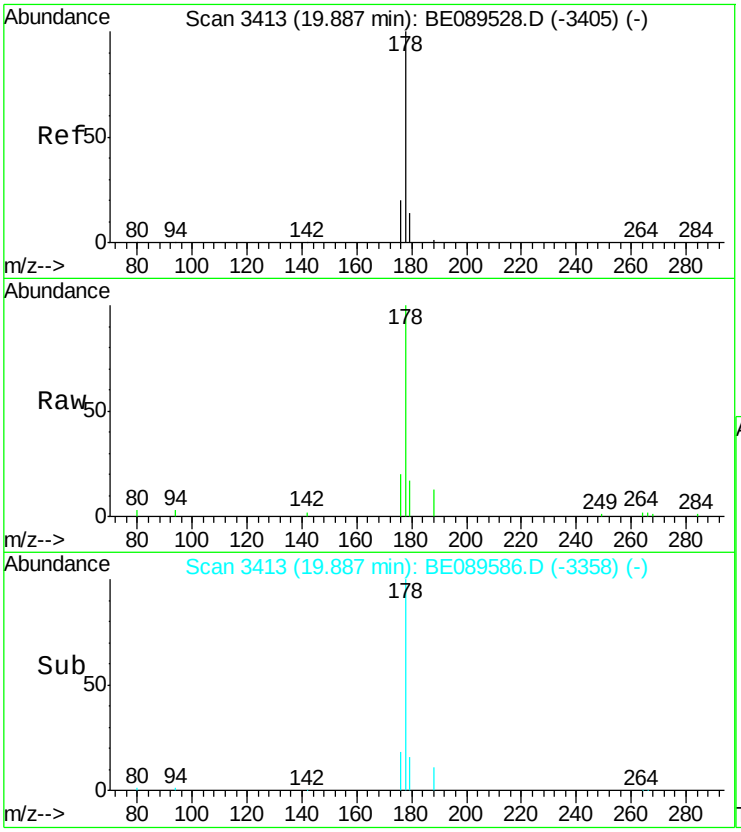




#12
Pentachlorophenol
Concen: 0.63 ng
RT: 19.51 min Scan# 3371
Delta R.T. -0.01 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

Tgt Ion:266 Resp: 94

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 80.2 | 57.9 | 86.9 |
| 264 | 80.2 | 60.2 | 90.4 |



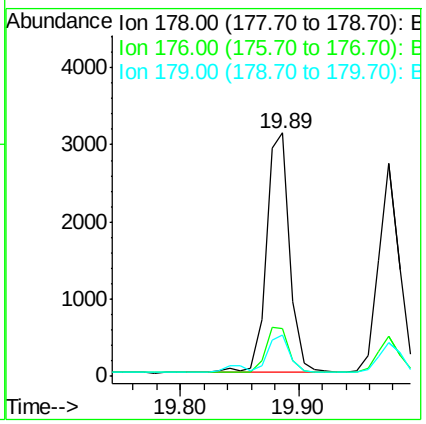


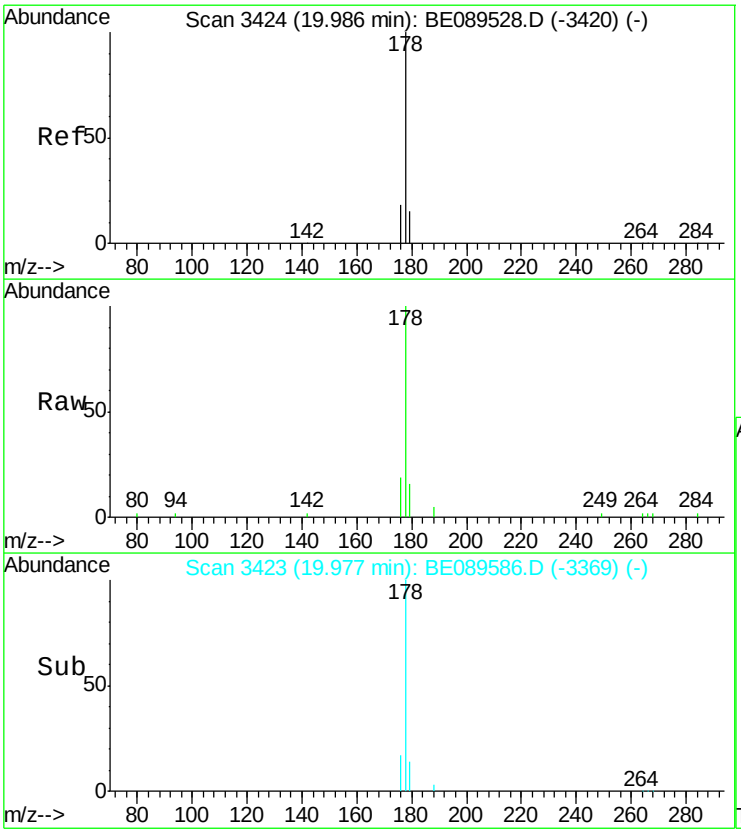

#13
Phenanthrene
Concen: 0.13 ng
RT: 19.89 min Scan# 3413
Delta R.T. -0.00 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

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

Tgt Ion:178 Resp: 4313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.4 | 23.0 |
| 179 | 14.8 | 12.2 | 18.2 |

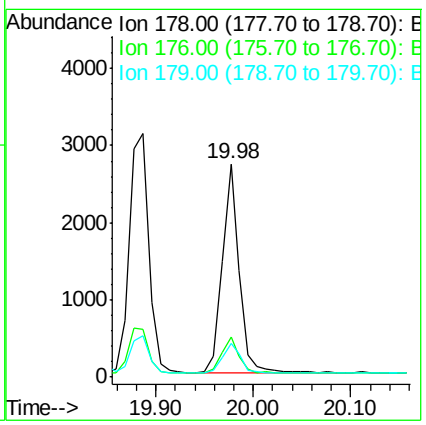


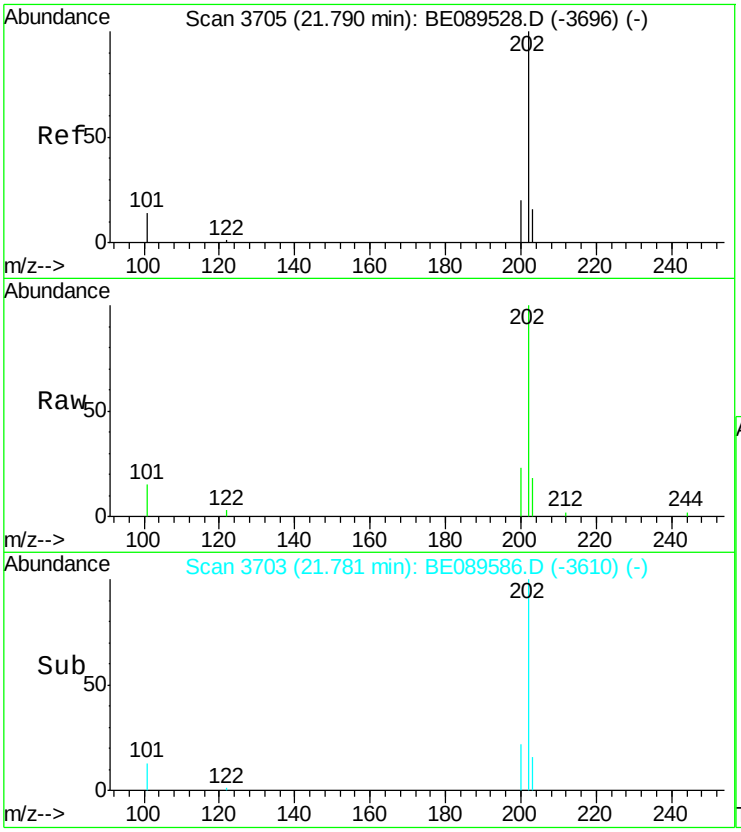




#14
Anthracene
Concen: 0.12 ng
RT: 19.98 min Scan# 3423
Delta R.T. -0.01 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

Tgt Ion:178 Resp: 3331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 14.5 | 21.7 |
| 179 | 15.3 | 12.2 | 18.2 |



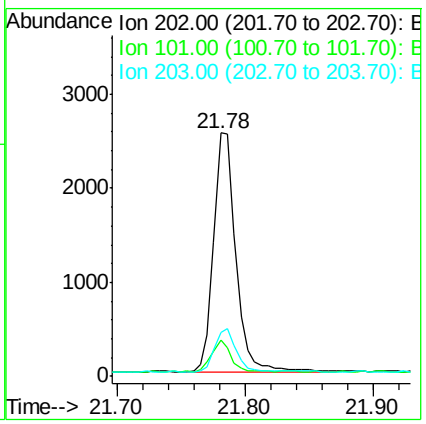


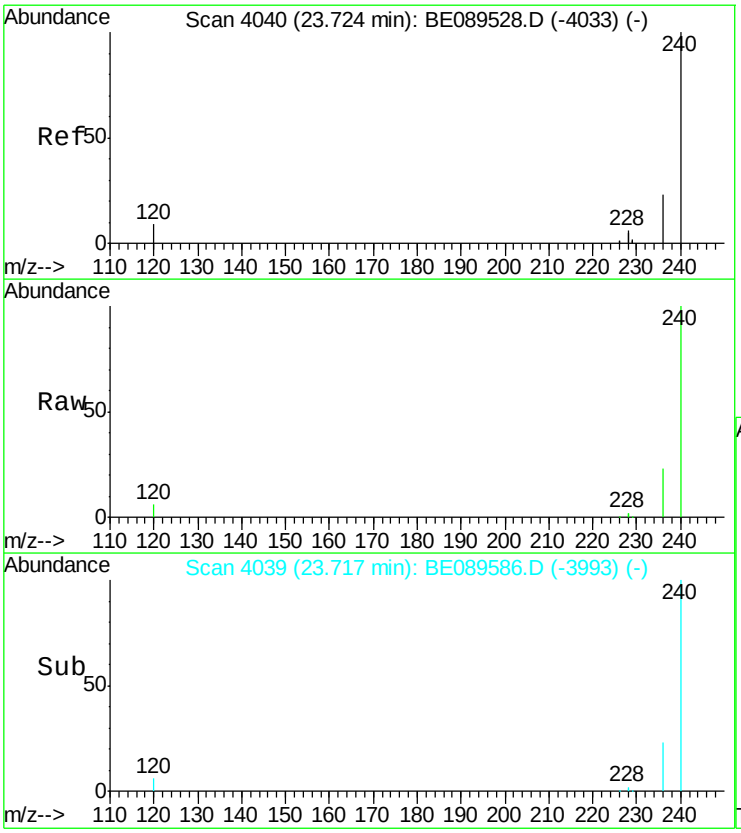

#15
Fluoranthene
Concen: 0.10 ng
RT: 21.78 min Scan# 3703
Delta R.T. -0.01 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

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

Tgt Ion:202 Resp: 3086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.7 | 11.6 | 17.4 |
| 203 | 17.8 | 13.6 | 20.4 |

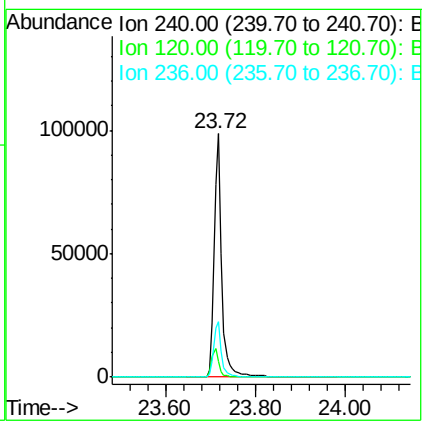


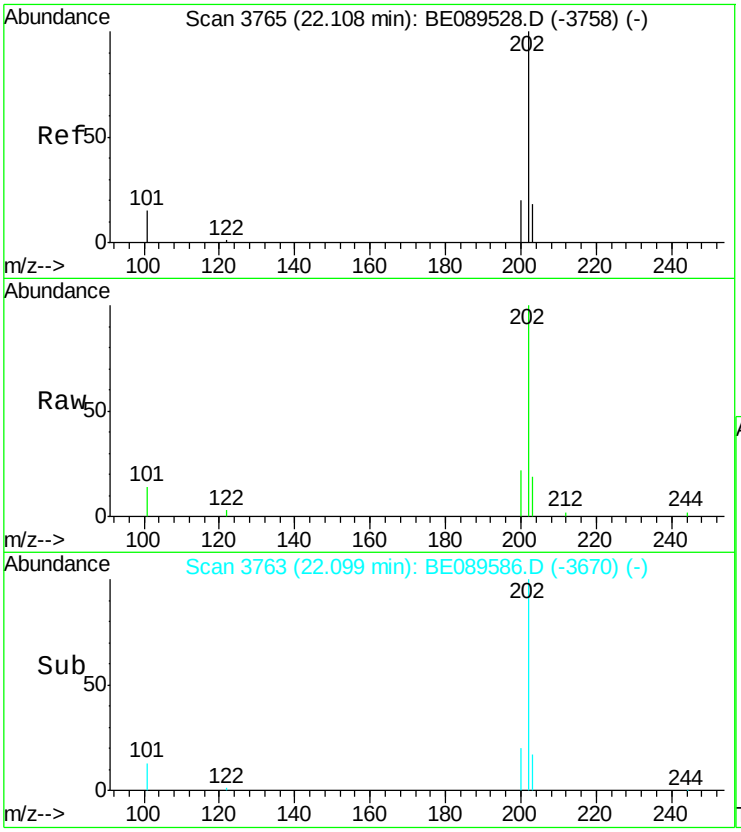




#16
Chrysene-d12
Concen: 5.00 ng
RT: 23.72 min Scan# 4039
Delta R.T. -0.01 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

Tgt Ion:240 Resp: 114977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 6.4 | 7.2 | 10.8# |
| 236 | 22.9 | 18.5 | 27.7 |



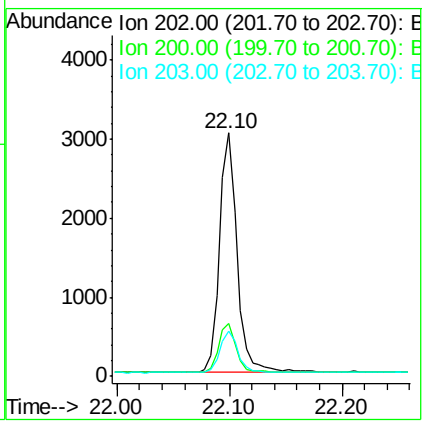


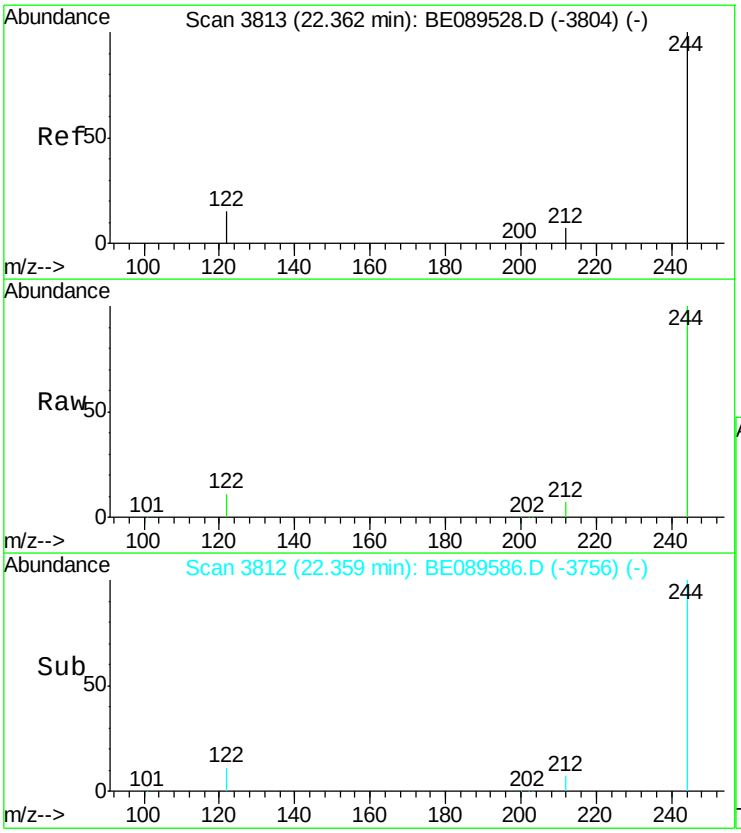

#17
Pyrene
Concen: 0.13 ng
RT: 22.10 min Scan# 3763
Delta R.T. -0.01 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

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

Tgt Ion:202 Resp: 3295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.5 | 16.3 | 24.5 |
| 203 | 17.4 | 13.5 | 20.3 |

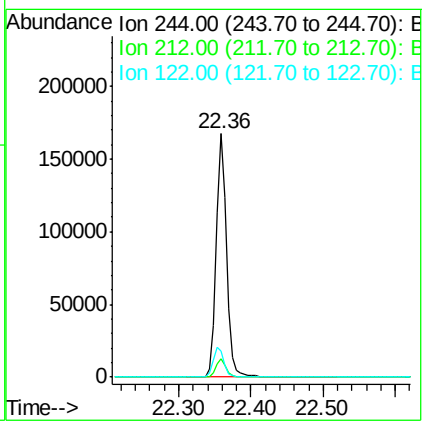


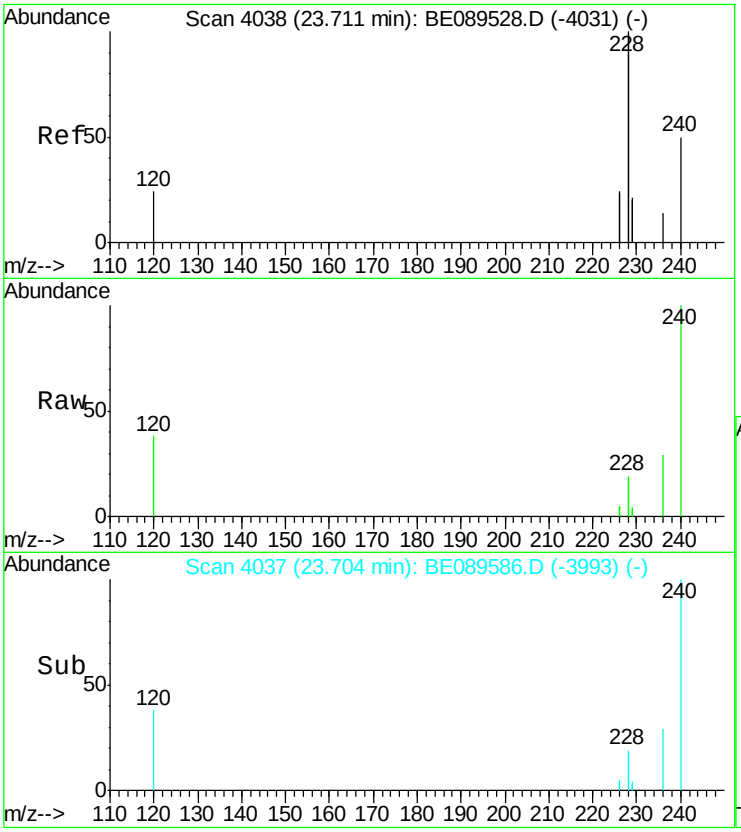




#18
Terphenyl-d14
Concen: 10.98 ng
RT: 22.36 min Scan# 3812
Delta R.T. -0.00 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

Tgt Ion:244 Resp: 166534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.3 | 5.8 | 8.8 |
| 122 | 10.8 | 12.6 | 19.0# |



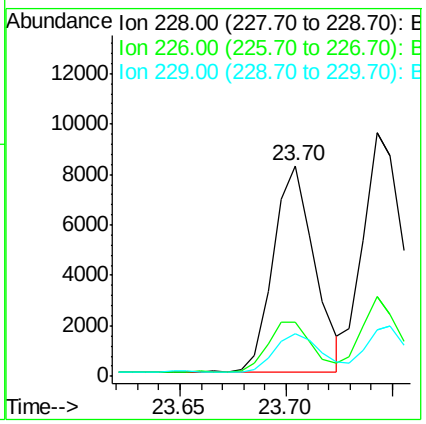


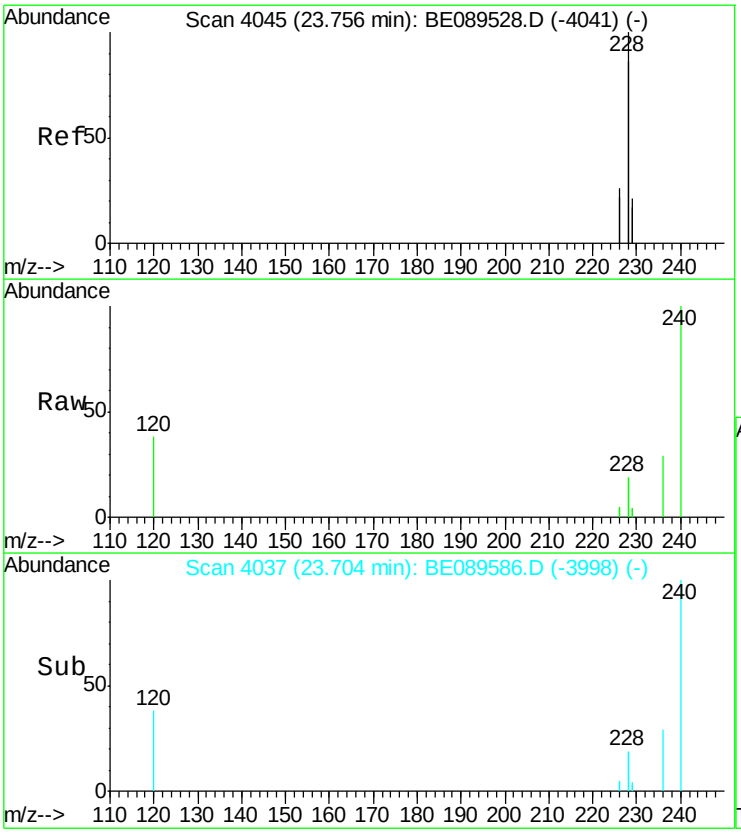

#19
Benzo(a)anthracene
Concen: 0.11 ng
RT: 23.70 min Scan# 4037
Delta R.T. -0.01 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

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

Tgt Ion:228 Resp: 10959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 25.7 | 19.0 | 28.4 |
| 229 | 20.3 | 16.8 | 25.2 |

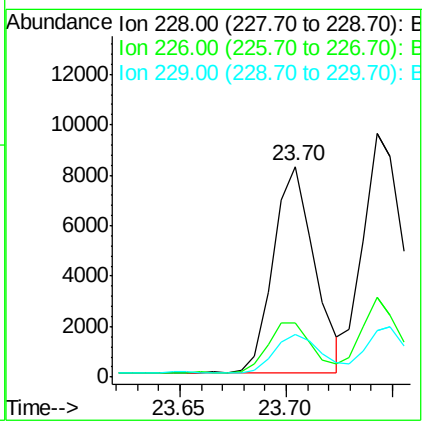


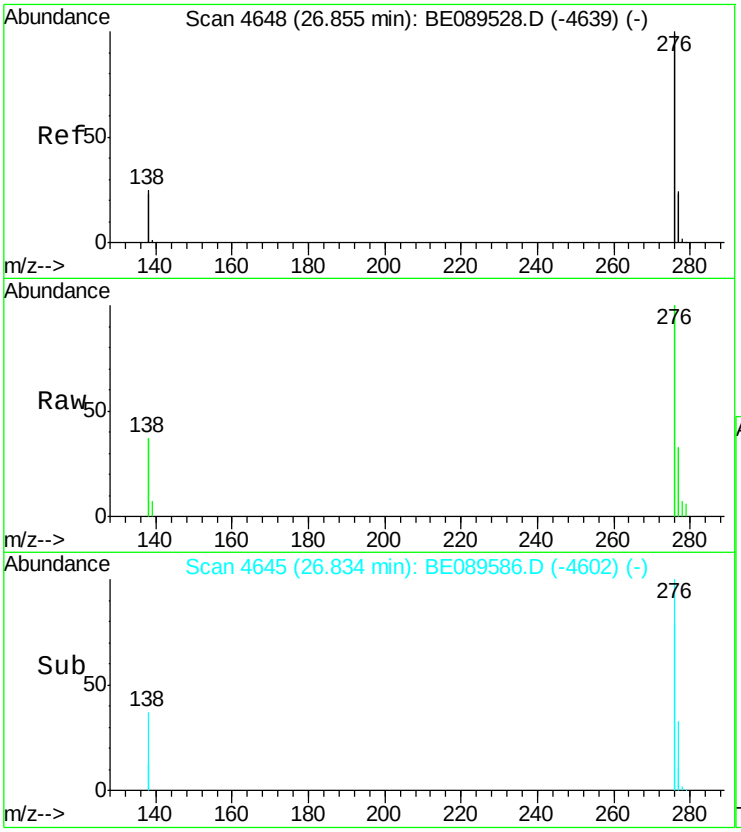




#20
Chrysene
Concen: 0.11 ng
RT: 23.70 min Scan# 4037
Delta R.T. -0.05 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

Tgt Ion:228 Resp: 10959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 25.7 | 21.0 | 31.4 |
| 229 | 20.3 | 16.7 | 25.1 |



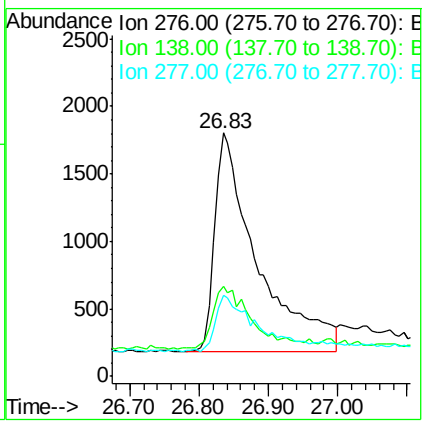


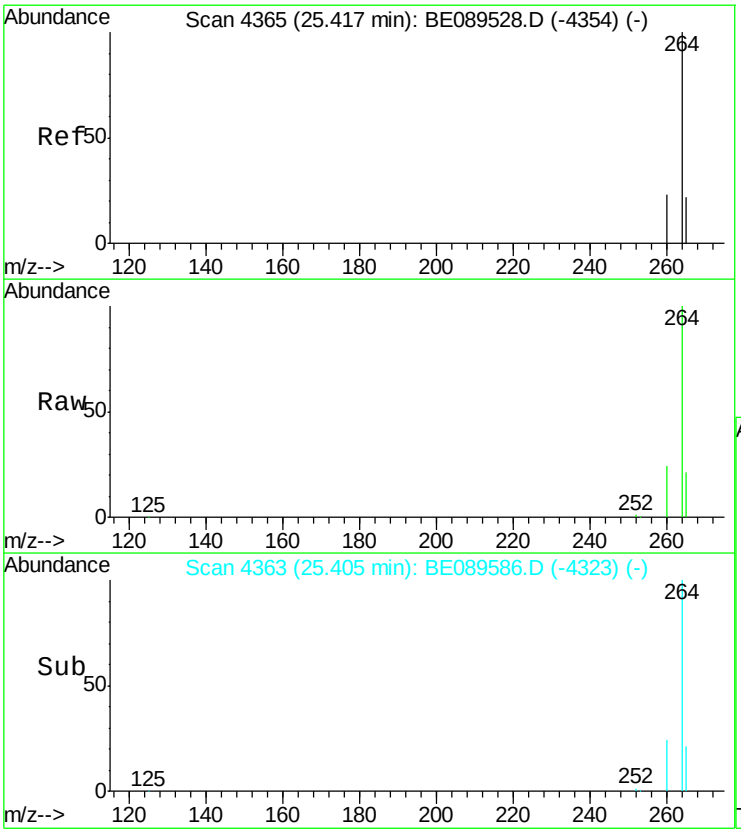

#21
Indeno(1,2,3-cd)pyrene
Concen: 0.05 ng
RT: 26.83 min Scan# 4645
Delta R.T. -0.02 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

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

Tgt Ion:276 Resp: 6898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.0 | 23.0 | 34.4 |
| 277 | 24.4 | 19.9 | 29.9 |

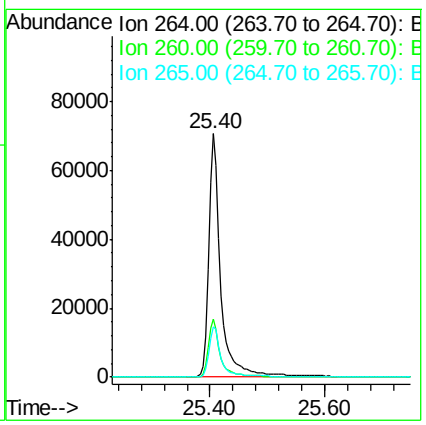


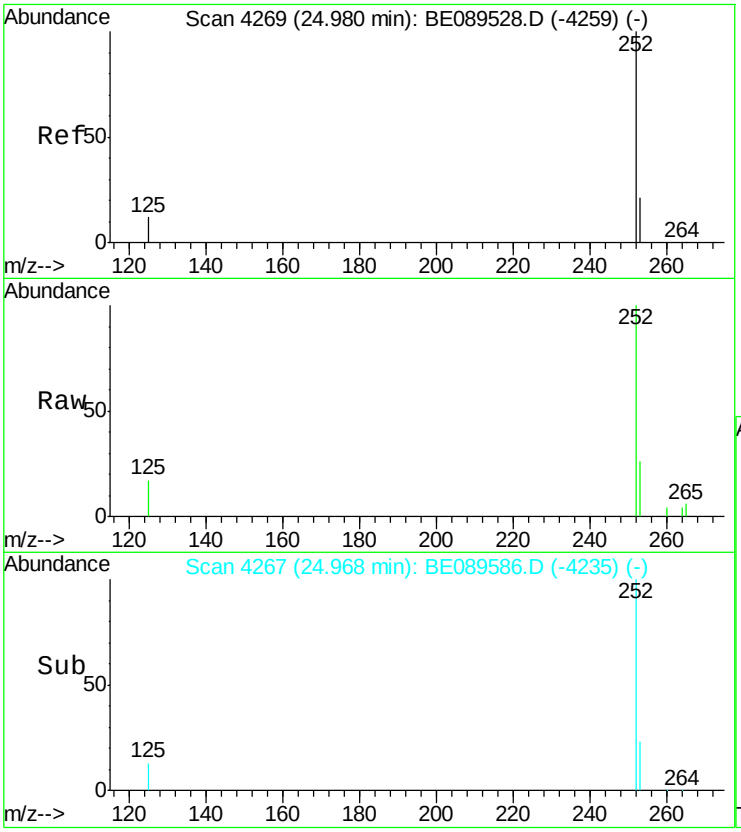




#22
Perylene-d12
Concen: 5.00 ng
RT: 25.40 min Scan# 4363
Delta R.T. -0.01 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

Tgt Ion:264 Resp: 103706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.0 | 18.7 | 28.1 |
| 265 | 20.9 | 17.5 | 26.3 |



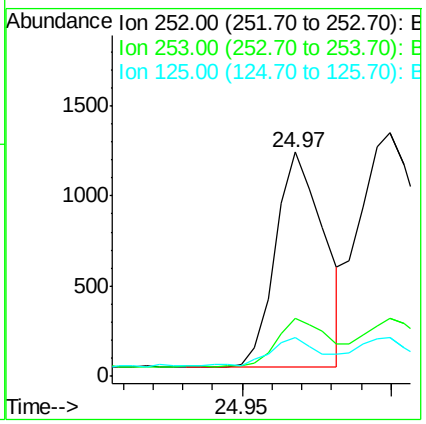


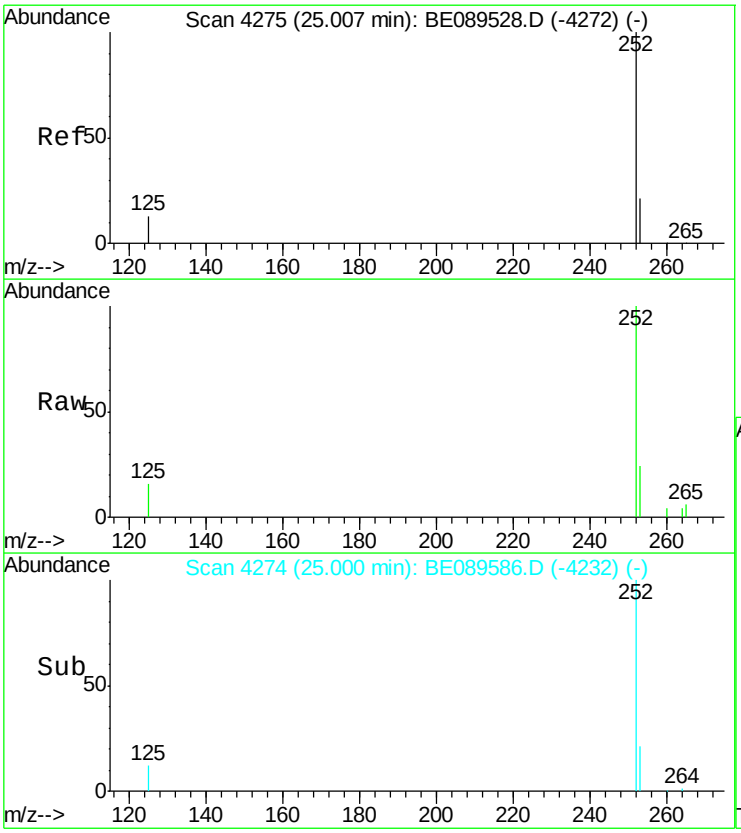

#23
Benzo(b)fluoranthene
Concen: 0.07 ng
RT: 24.97 min Scan# 4267
Delta R.T. -0.01 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

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

Tgt Ion:252 Resp: 1345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.1 | 17.4 | 26.0# |
| 125 | 17.1 | 10.4 | 15.6# |

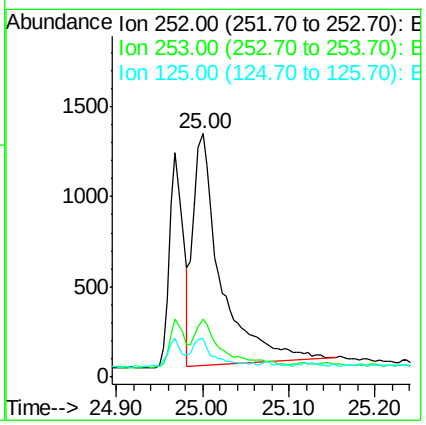


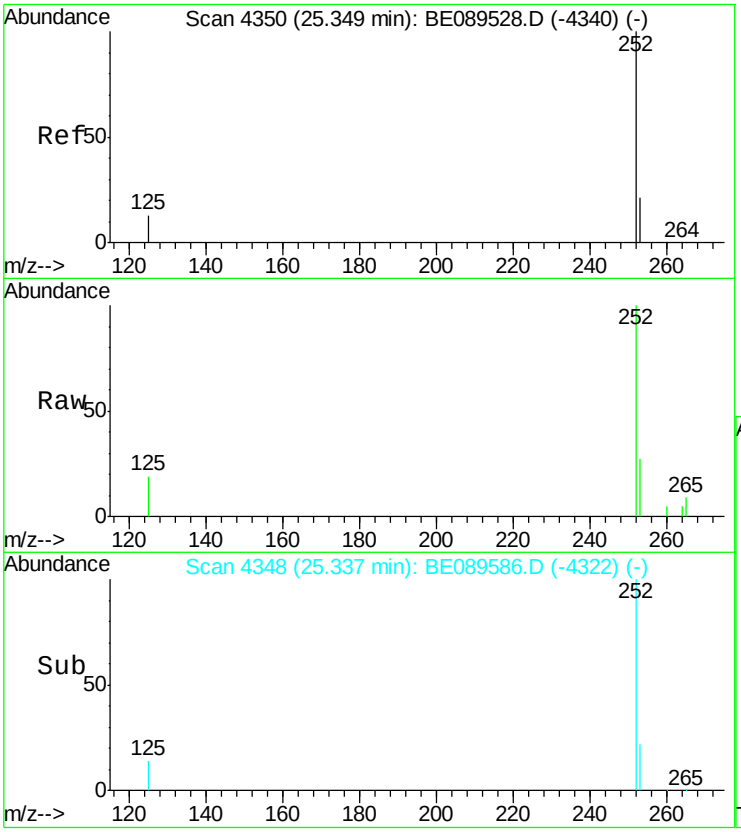




#24
Benzo(k)fluoranthene
Concen: 0.11 ng
RT: 25.00 min Scan# 4274
Delta R.T. -0.01 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

Tgt Ion:252 Resp: 2804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.1 | 17.2 | 25.8 |
| 125 | 15.9 | 10.6 | 15.8# |



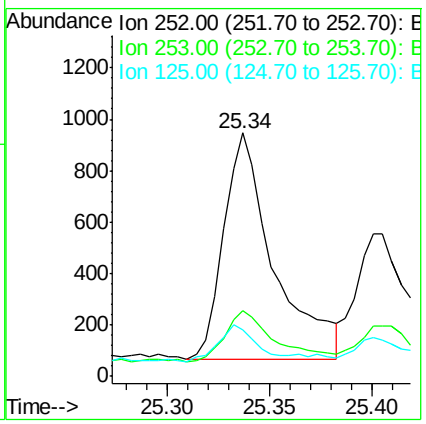


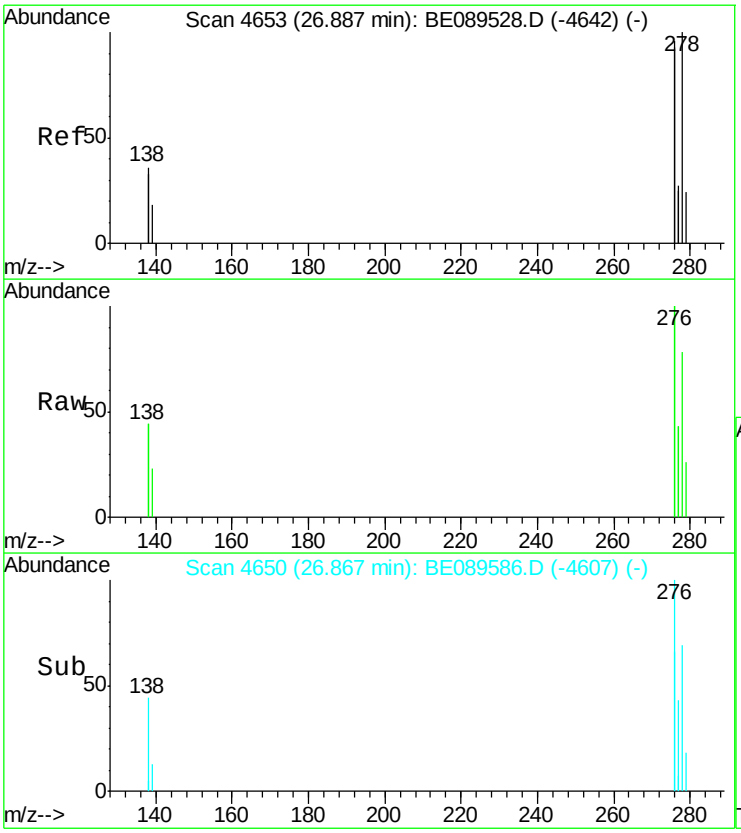

#25
Benzo(a)pyrene
Concen: 0.07 ng
RT: 25.34 min Scan# 4348
Delta R.T. -0.01 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

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

Tgt Ion:252 Resp: 1476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.8 | 17.8 | 26.6# |
| 125 | 19.3 | 11.4 | 17.2# |

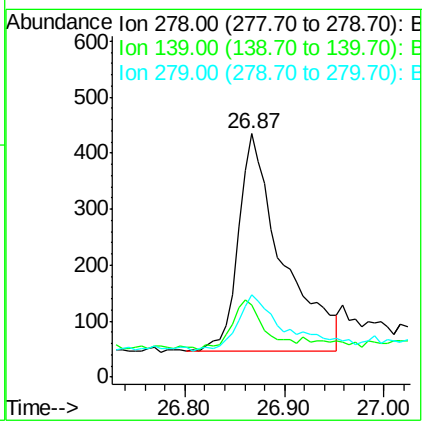


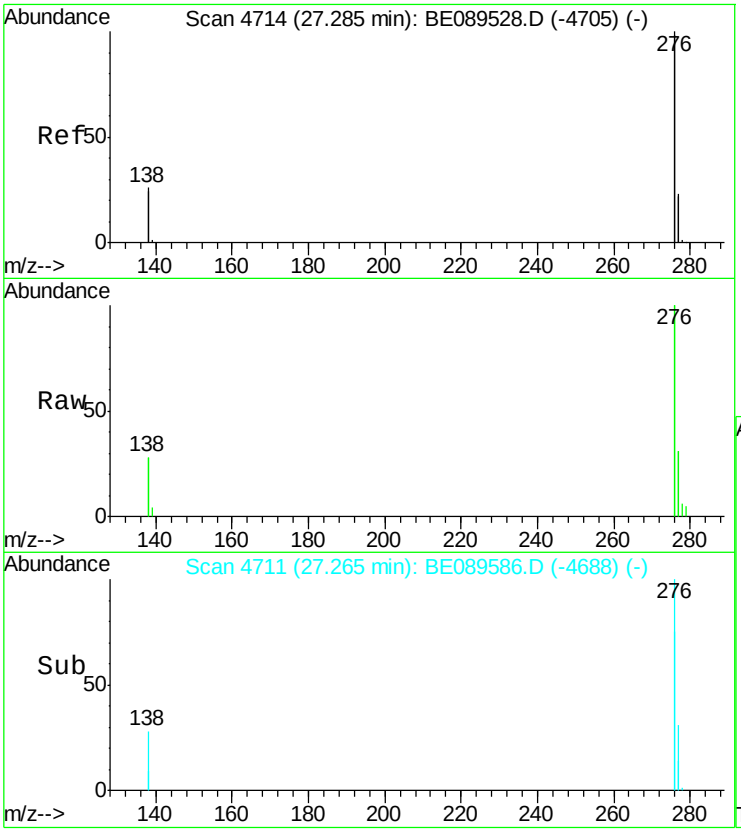




#26
Dibenzo(a,h)anthracene
Concen: 0.05 ng
RT: 26.87 min Scan# 4650
Delta R.T. -0.02 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

Tgt Ion:278 Resp: 1199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 29.4 | 15.7 | 23.5# |
| 279 | 34.0 | 19.5 | 29.3# |






#27
Benzo(g,h,i)perylene
Concen: 0.08 ng
RT: 27.26 min Scan# 4711
Delta R.T. -0.02 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

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

Tgt Ion:276 Resp: 7878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 31.4 | 18.6 | 27.8# |
| 138 | 27.8 | 20.9 | 31.3 |