Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
Data File : BE088463.D
Acq On : 1 Nov 2014 22:03
Operator : TP/JJ
Sample : F4312-12RE
Misc :
ALS Vial : 38 Sample Multiplier: 1

**Instrument :** BNA_E
**ClientSampleId :** YS19-SS28-1014RE

Quant Time: Nov 02 04:21:17 2014
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE103114.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 01 00:42:07 2014
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.09 | 152 | 46341 | 5.00 | ng | | 0.00 |
| 3) Naphthalene-d8 | 8.65 | 136 | 173165 | 5.00 | ng | | 0.00 |
| 7) Acenaphthene-d10 | 10.79 | 164 | 80837 | 5.00 | ng | | 0.00 |
| 12) Phenanthrene-d10 | 12.91 | 188 | 172804 | 5.00 | ng | | 0.00 |
| 16) Chrysene-d12 | 18.33 | 240 | 106681 | 5.00 | ng | | 0.02 |
| 22) Perylene-d12 | 21.40 | 264 | 104911 | 5.00 | ng | | 0.03 |
| **System Monitoring Compounds** | | | | | | | |
| 4) Nitrobenzene-d5 | 7.79 | 82 | 588975 | 46.38 | ng | | 0.02 |
| 8) 2-Fluorobiphenyl | 10.00 | 172 | 660999 | 29.01 | ng | | 0.01 |
| 18) Terphenyl-d14 | 16.11 | 244 | 550373 | 28.08 | ng | | 0.04 |
| **Target Compounds** | | | | | | | Qvalue |
| 5) Naphthalene | 8.68 | 128 | 1251 | 0.03 | ng | # | 88 |
| 9) Acenaphthylene | 10.62 | 152 | 6249 | 0.05 | ng | # | 98 |
| 10) Acenaphthene | 10.84 | 154 | 1868 | 0.10 | ng | | 74 |
| 11) Fluorene | 11.50 | 166 | 1570 | 0.08 | ng | # | 96 |
| 13) Phenanthrene | 12.95 | 178 | 177053 | 1.13 | ng | | 99 |
| 14) Anthracene | 12.95 | 178 | 177053 | 1.40 | ng | | 98 |
| 15) Fluoranthene | 15.19 | 202 | 71209 | 2.79 | ng | | 99 |
| 17) Pyrene | 15.65 | 202 | 61982 | 1.78 | ng | | 96 |
| 19) Benzo(a)anthracene | 18.31 | 228 | 138396 | 1.38 | ng | | 98 |
| 20) Chrysene | 18.38 | 228 | 141031 | 1.43 | ng | | 96 |
| 21) Indeno(1,2,3-cd)pyrene | 23.58 | 276 | 88223 | 0.96 | ng | # | 87 |
| 23) Benzo(b)fluoranthene | 20.64 | 252 | 49329 | 2.14 | ng | | 97 |
| 24) Benzo(k)fluoranthene | 20.64 | 252 | 49329 | 1.95 | ng | | 97 |
| 25) Benzo(a)pyrene | 21.28 | 252 | 31690 | 1.43 | ng | | 98 |
| 26) Dibenzo(a,h)anthracene | 23.66 | 278 | 5155 | 0.25 | ng | # | 78 |
| 27) Benzo(g,h,i)perylene | 24.21 | 276 | 86324 | 0.92 | ng | | 99 |

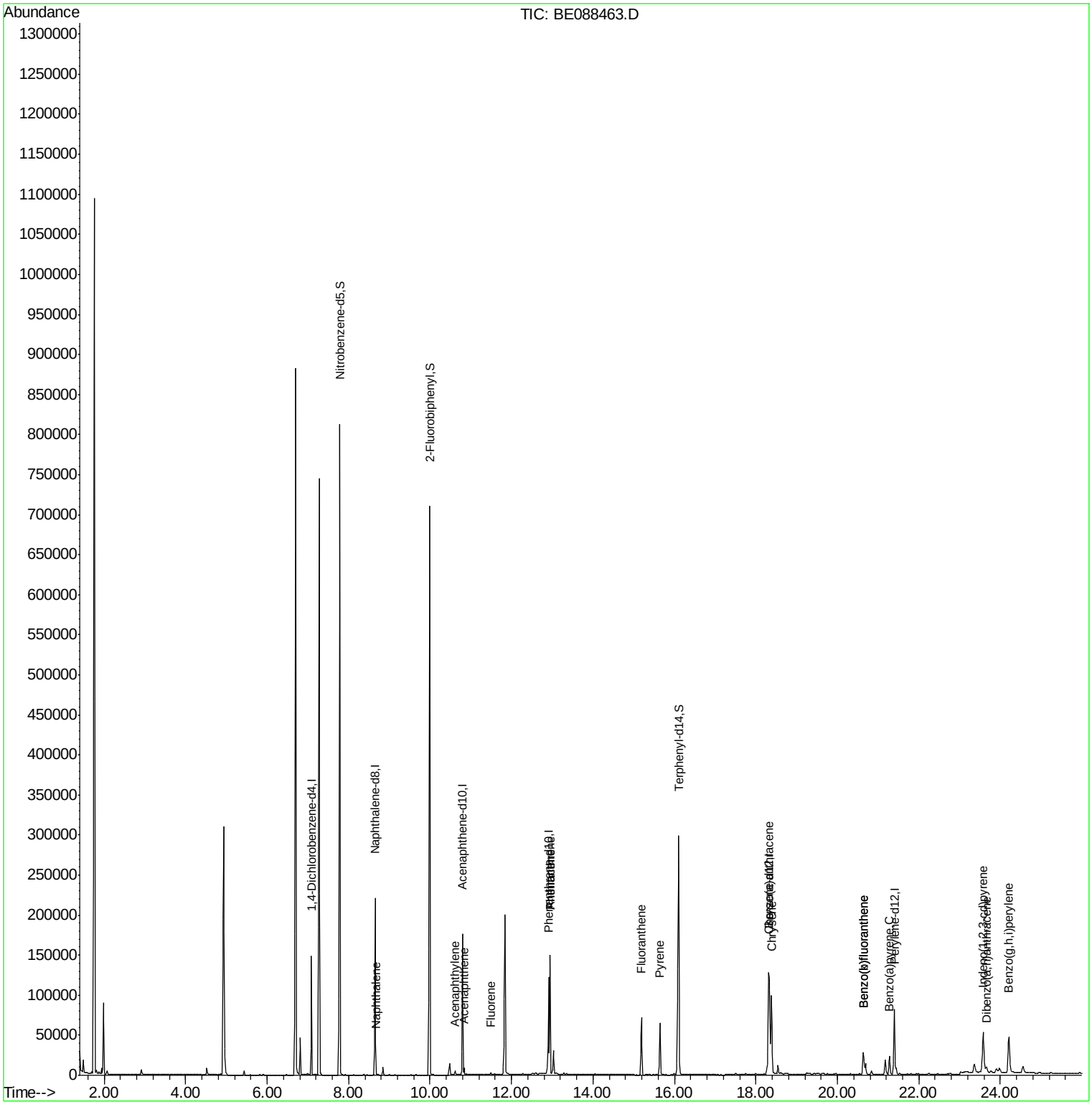
(#) = qualifier out of range (m) = manual integration (+) = signals summed

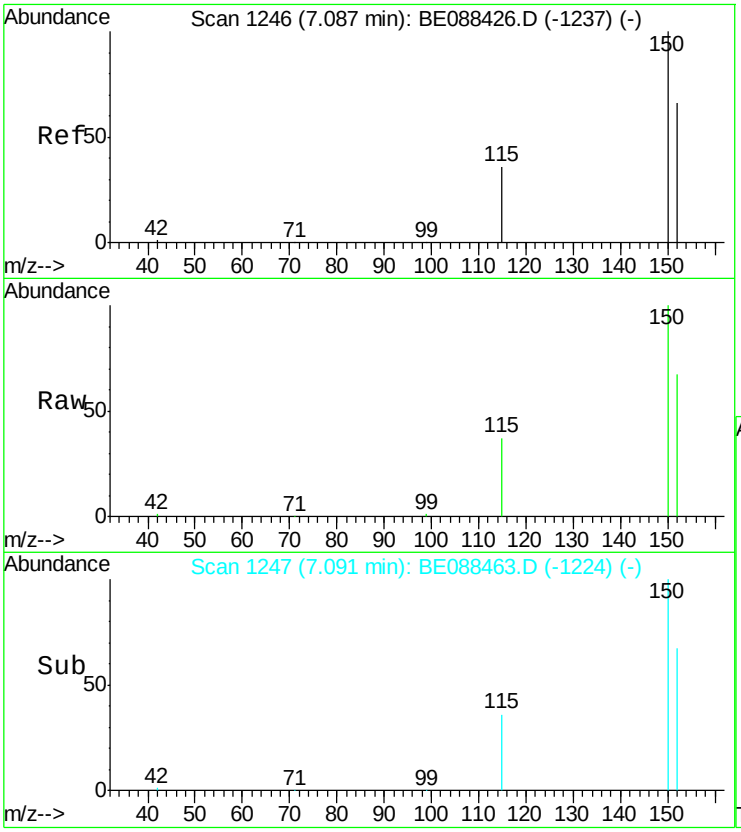
Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
Data File : BE088463.D
Acq On : 1 Nov 2014 22:03
Operator : TP/JJ
Sample : F4312-12RE
Misc :
ALS Vial : 38 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SS28-1014RE

Quant Time: Nov 02 04:21:17 2014
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE103114.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 01 00:42:07 2014
Response via : Initial Calibration



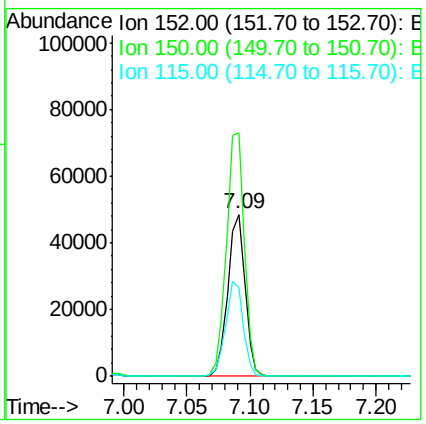


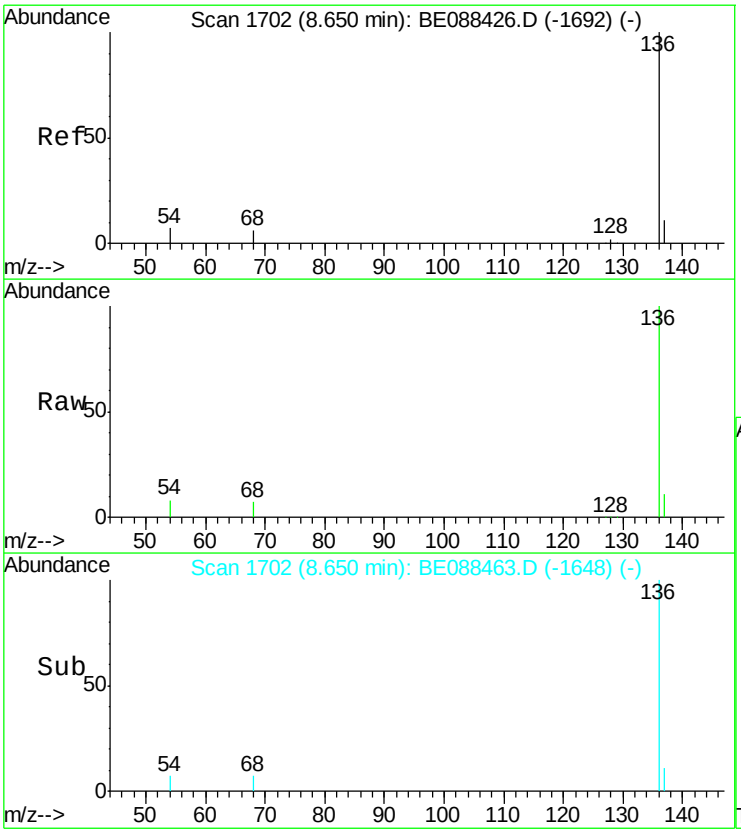

#1
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.09 min Scan# 1247
Delta R.T. 0.00 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SS28-1014RE

Tgt Ion:152 Resp: 46341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 150.0 | 121.8 | 182.8 |
| 115 | 54.8 | 43.9 | 65.9 |

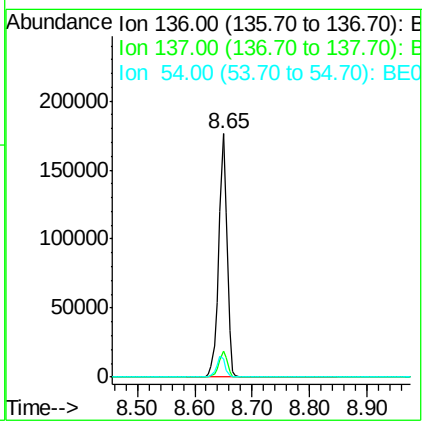


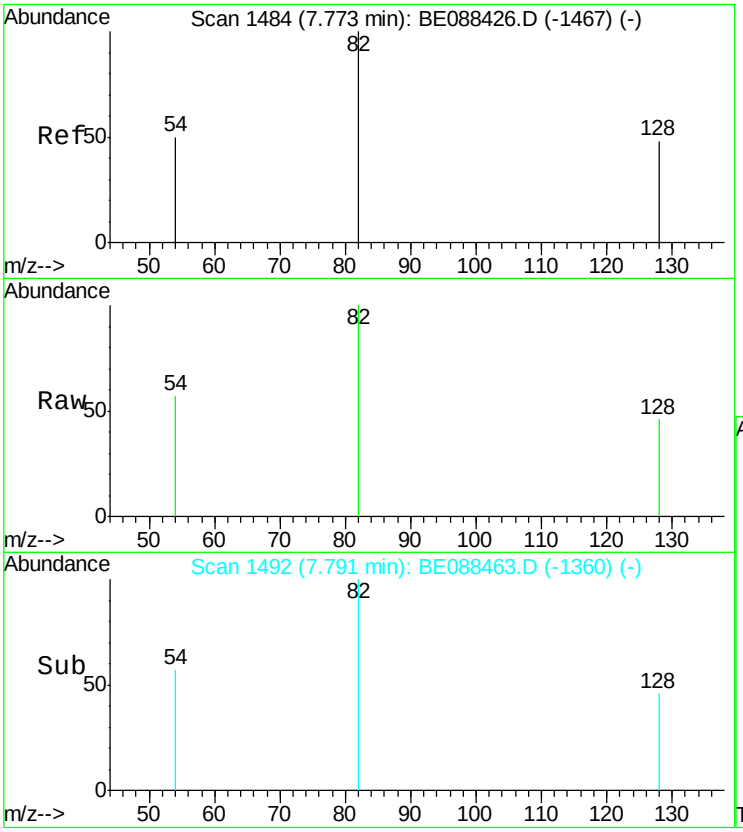




#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.65 min Scan# 1702
Delta R.T. -0.00 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

Tgt Ion:136 Resp: 173165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.7 | 8.8 | 13.2 |
| 54 | 7.5 | 5.3 | 7.9 |



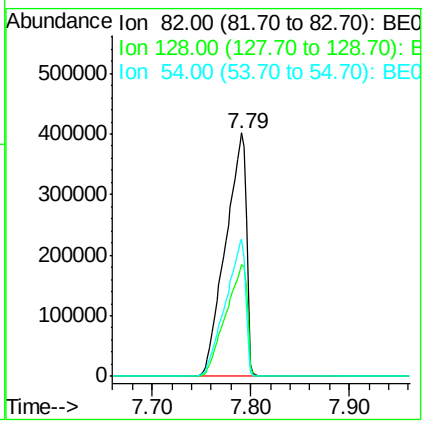


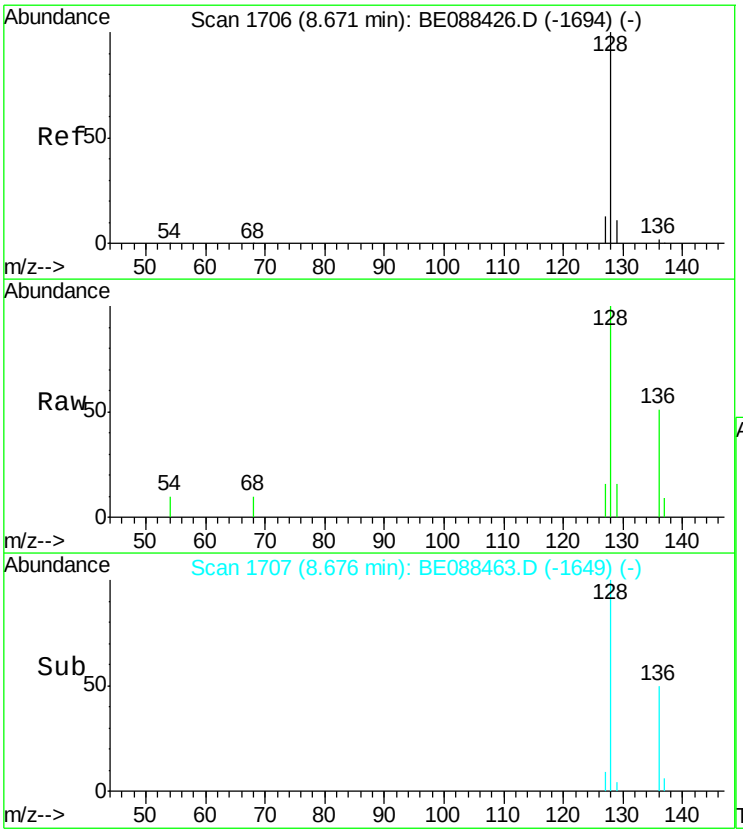

#4
Nitrobenzene-d5
Concen: 46.38 ng
RT: 7.79 min Scan# 1492
Delta R.T. 0.02 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SS28-1014RE

Tgt Ion: 82 Resp: 588975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.9 | 38.4 | 57.6 |
| 54 | 56.5 | 40.2 | 60.2 |

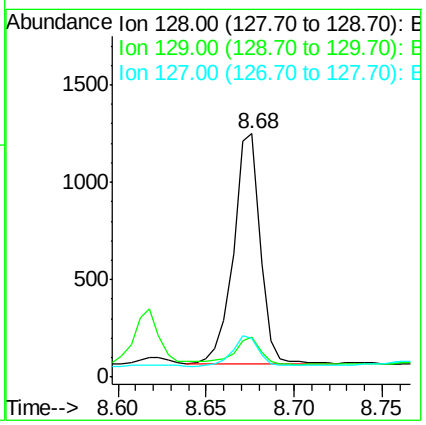


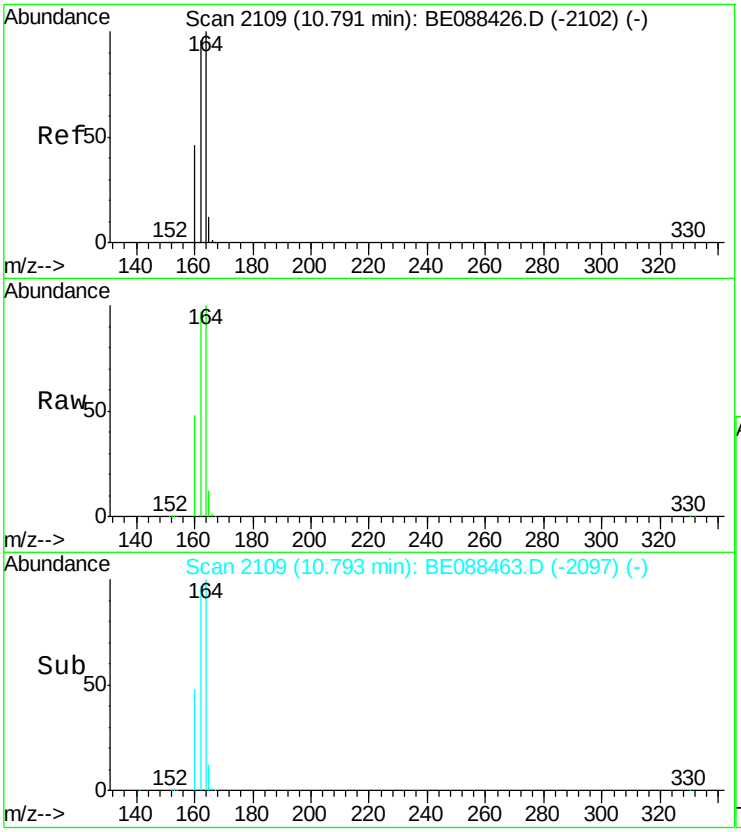




#5
Naphthalene
Concen: 0.03 ng
RT: 8.68 min Scan# 1707
Delta R.T. 0.01 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

Tgt Ion:128 Resp: 1251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 16.5 | 8.6 | 12.8# |
| 127 | 16.2 | 10.1 | 15.1# |



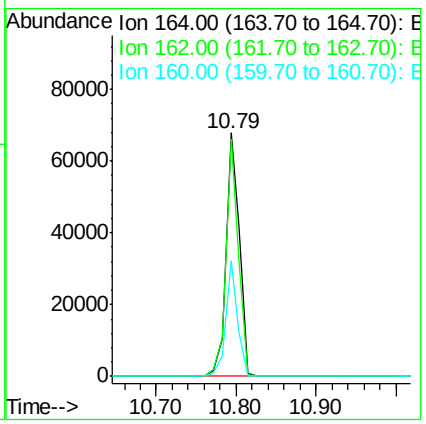


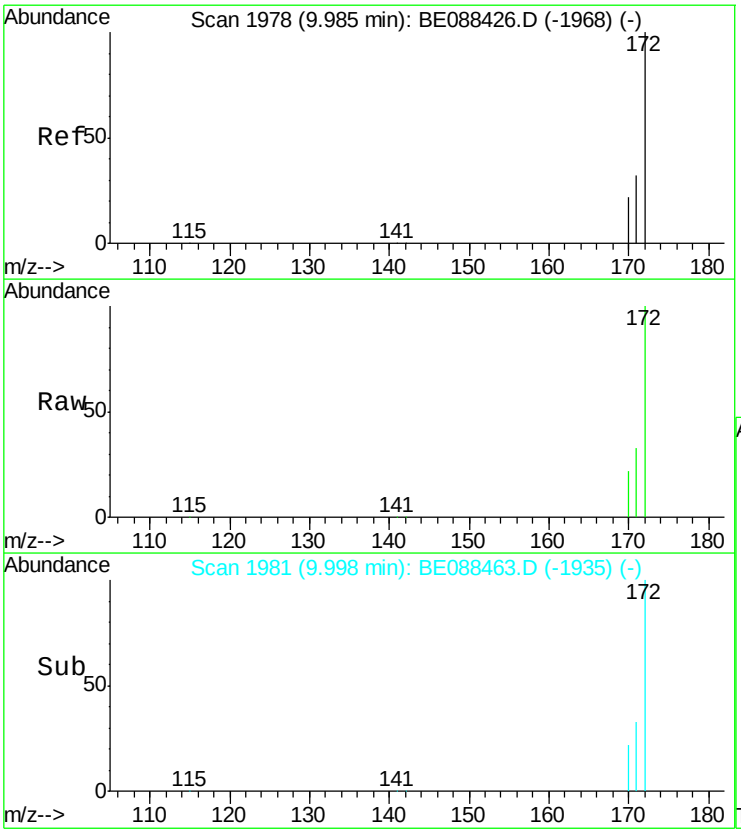

#7
Acenaphthene-d10
Concen: 5.00 ng
RT: 10.79 min Scan# 2109
Delta R.T. 0.00 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SS28-1014RE

Tgt Ion:164 Resp: 80837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 97.4 | 77.0 | 115.4 |
| 160 | 47.6 | 36.8 | 55.2 |

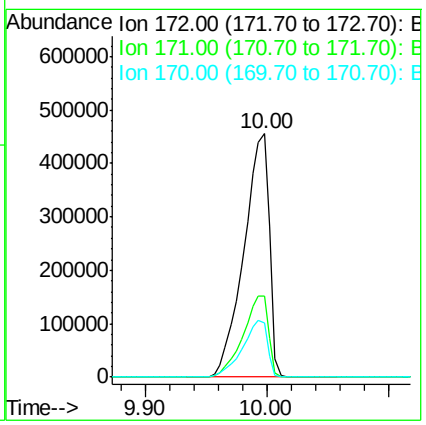


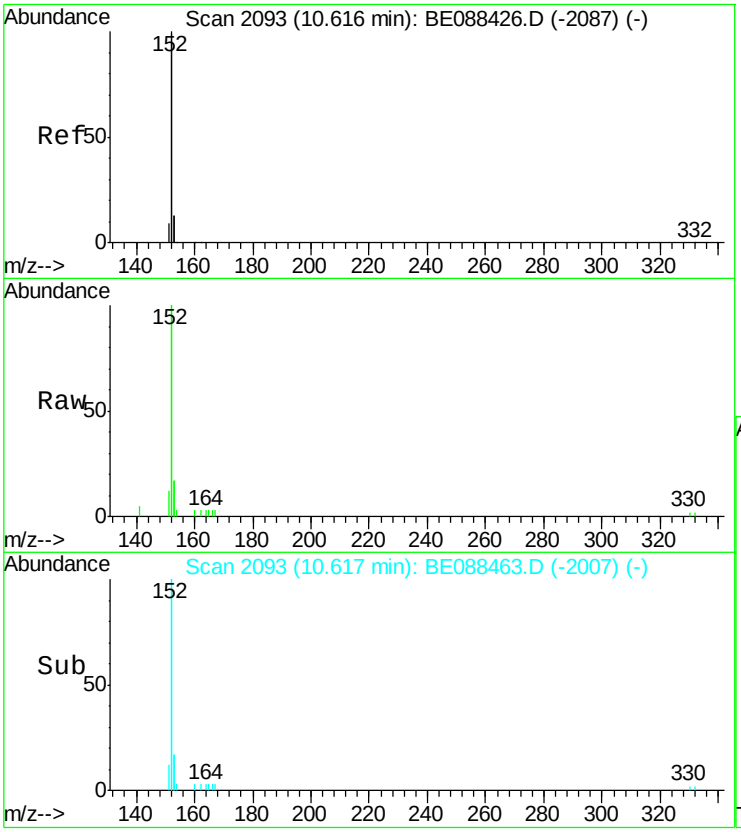




#8
2-Fluorobiphenyl
Concen: 29.01 ng
RT: 10.00 min Scan# 1981
Delta R.T. 0.01 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

Tgt Ion:172 Resp: 660999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 33.1 | 26.0 | 39.0 |
| 170 | 22.3 | 17.6 | 26.4 |



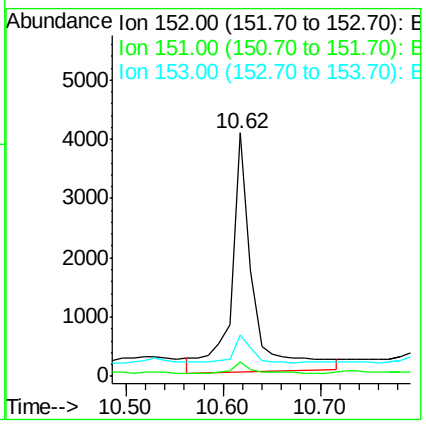


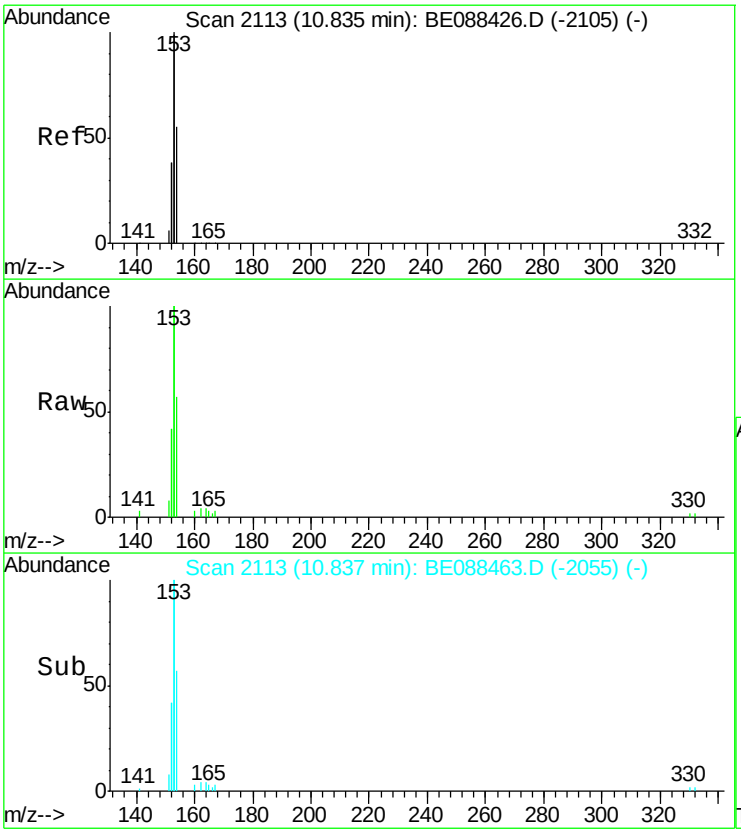

#9
Acenaphthylene
Concen: 0.05 ng
RT: 10.62 min Scan# 2093
Delta R.T. 0.00 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SS28-1014RE

Tgt Ion:152 Resp: 6249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 3.6 | 4.4 | 6.6# |
| 153 | 13.4 | 10.5 | 15.7 |

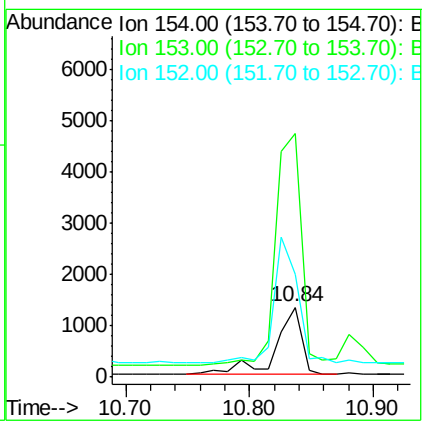


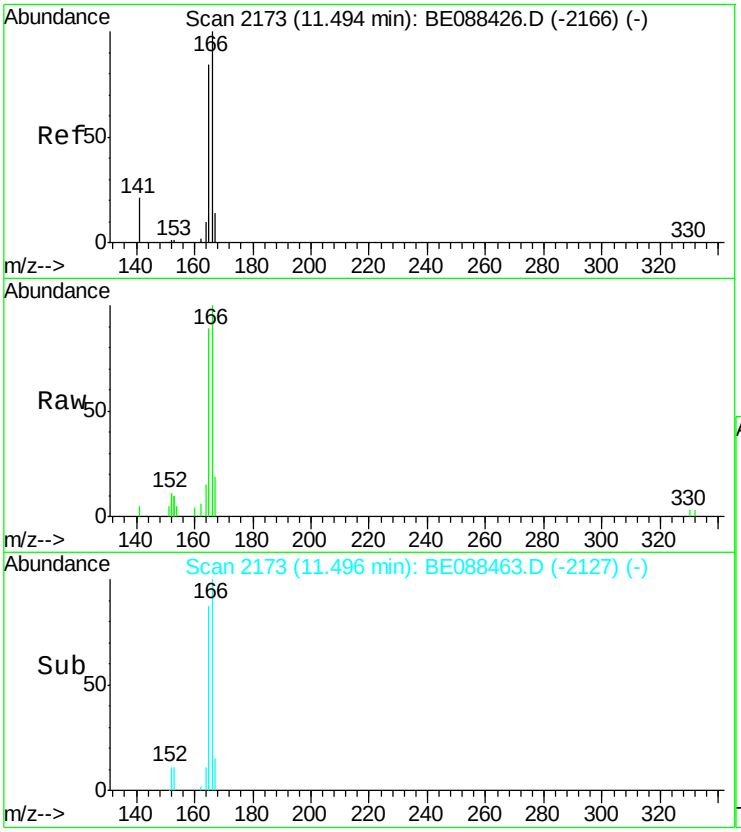




#10
Acenaphthene
Concen: 0.10 ng
RT: 10.84 min Scan# 2113
Delta R.T. 0.00 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

Tgt Ion:154 Resp: 1868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 337.8 | 324.3 | 486.5 |
| 152 | 224.6 | 154.9 | 232.3 |



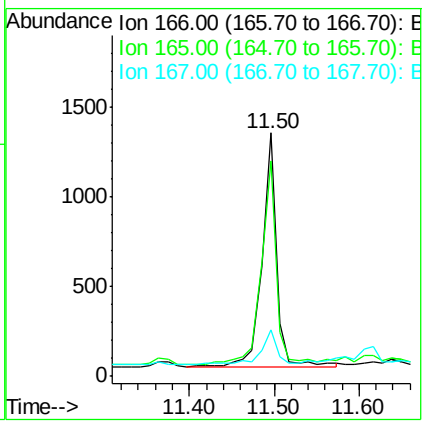


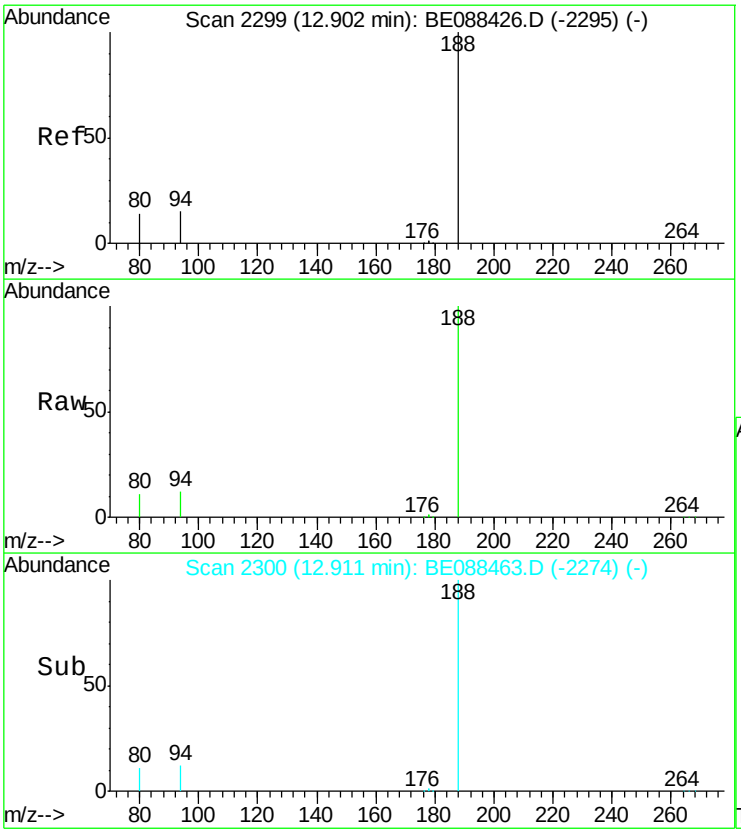

#11
Fluorene
Concen: 0.08 ng
RT: 11.50 min Scan# 2173
Delta R.T. 0.00 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SS28-1014RE

Tgt Ion:166 Resp: 1570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 91.5 | 71.3 | 106.9 |
| 167 | 18.3 | 10.7 | 16.1# |

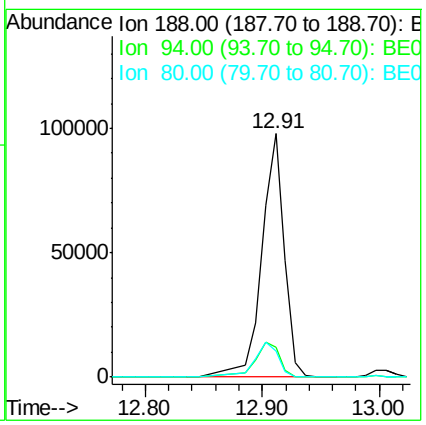


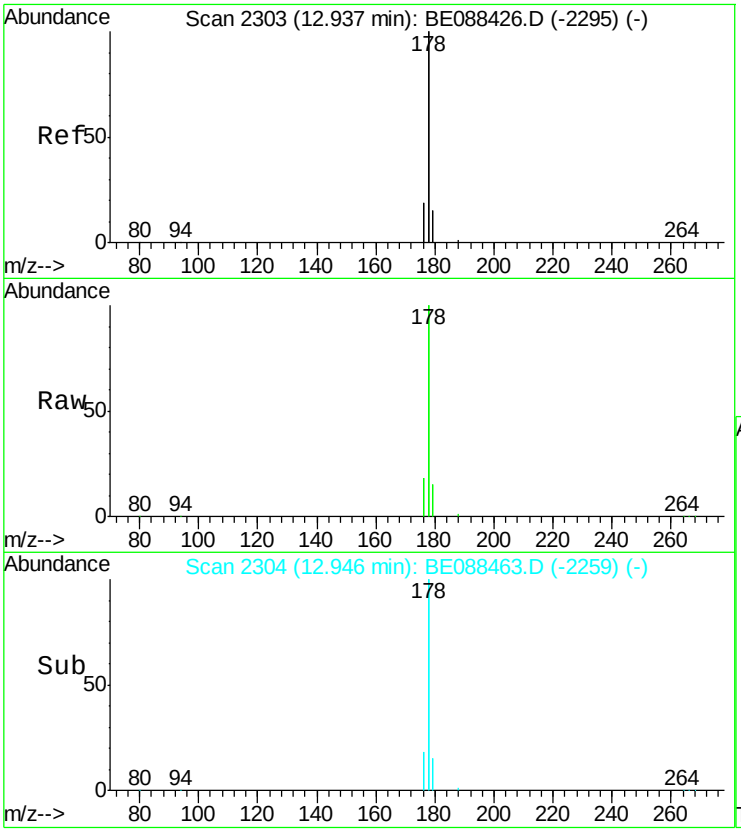




#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.91 min Scan# 2300
Delta R.T. 0.01 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

Tgt Ion:188 Resp: 172804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 12.1 | 11.8 | 17.8 |
| 80 | 10.8 | 10.9 | 16.3# |



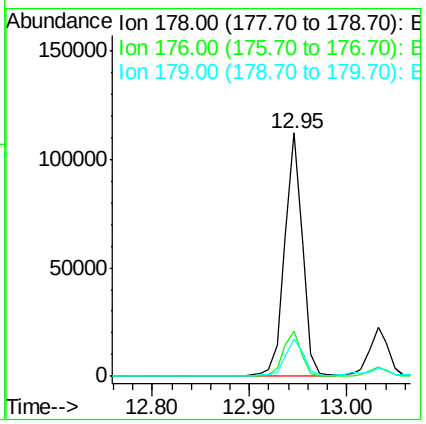


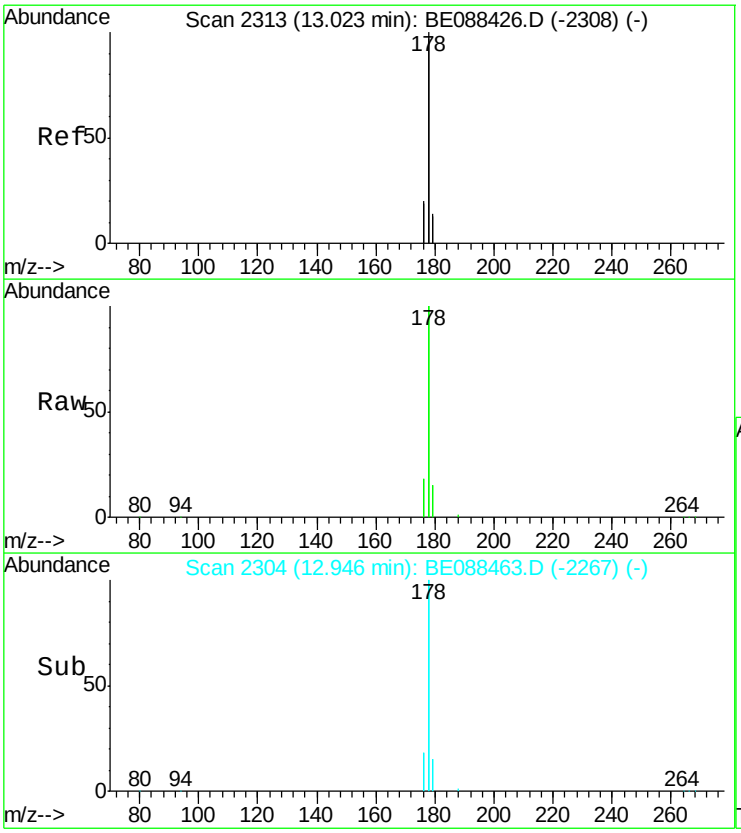

#13
Phenanthrene
Concen: 1.13 ng
RT: 12.95 min Scan# 2304
Delta R.T. 0.01 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SS28-1014RE

Tgt Ion:178 Resp: 177053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.4 | 23.2 |
| 179 | 17.1 | 12.8 | 19.2 |

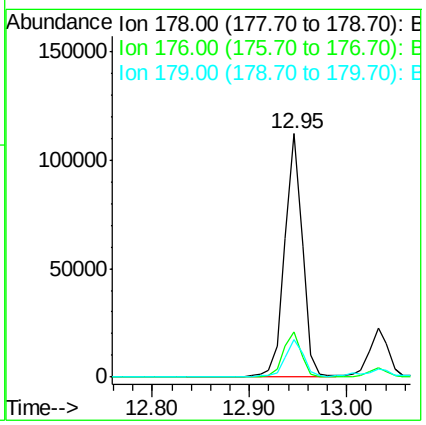


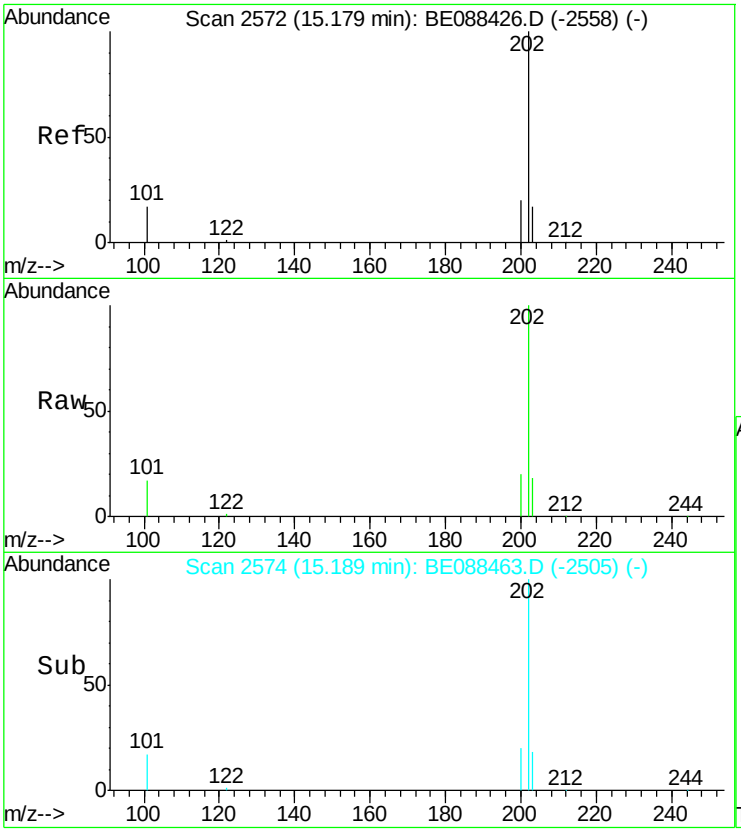




#14
Anthracene
Concen: 1.40 ng
RT: 12.95 min Scan# 2304
Delta R.T. -0.08 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

Tgt Ion:178 Resp: 177053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.0 | 22.4 |
| 179 | 17.1 | 12.5 | 18.7 |



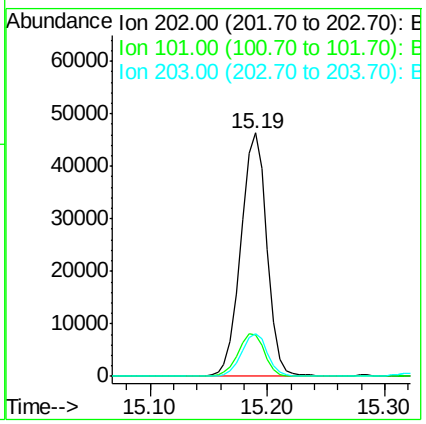


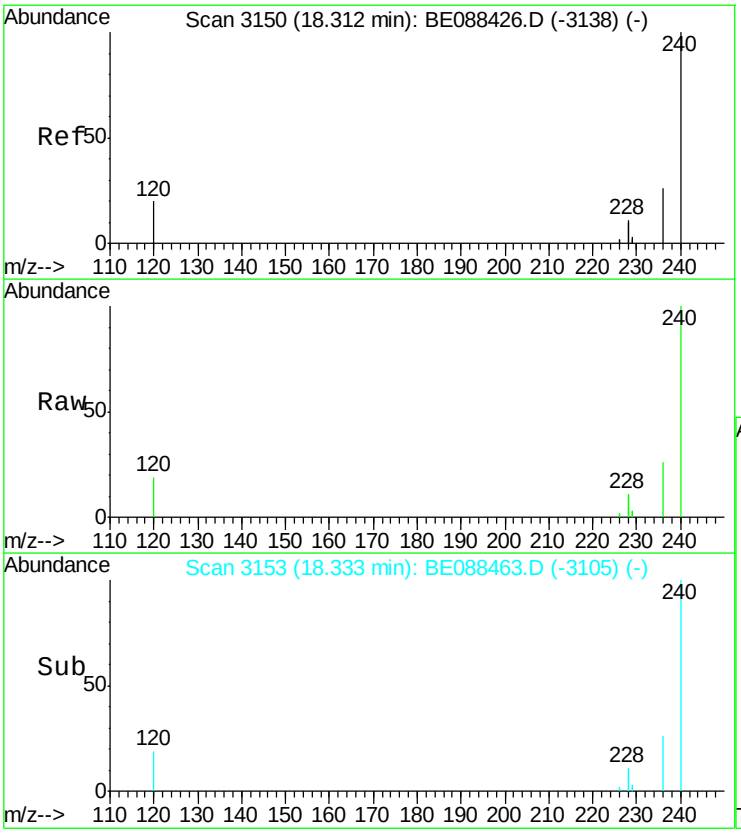

#15
Fluoranthene
Concen: 2.79 ng
RT: 15.19 min Scan# 2574
Delta R.T. 0.01 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SS28-1014RE

Tgt Ion:202 Resp: 71209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 17.6 | 14.3 | 21.5 |
| 203 | 17.2 | 13.6 | 20.4 |

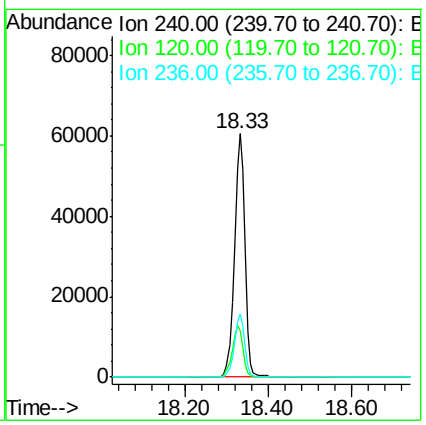


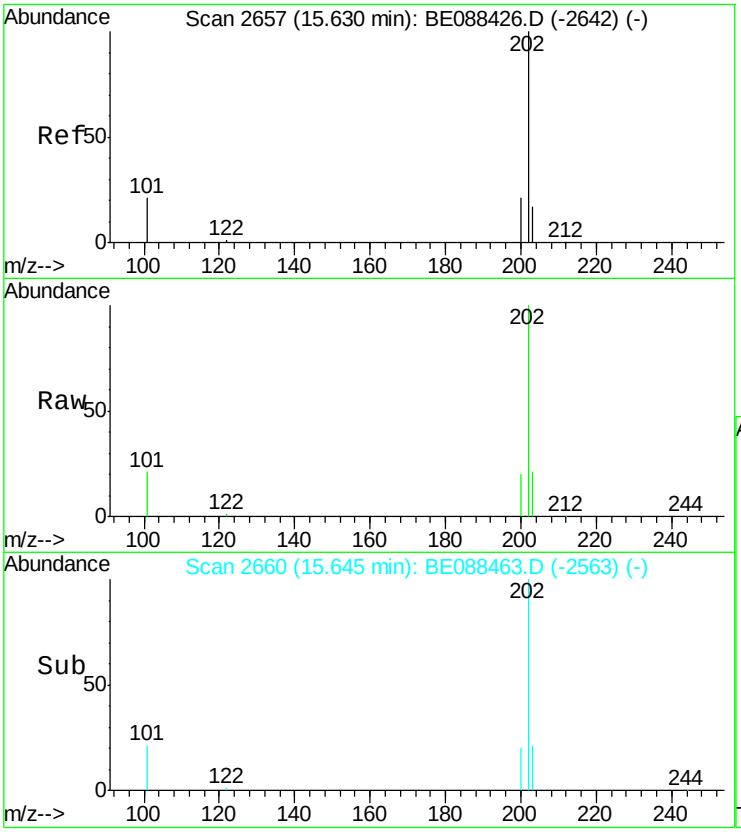




#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.33 min Scan# 3153
Delta R.T. 0.02 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

Tgt Ion:240 Resp: 106681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 18.9 | 16.4 | 24.6 |
| 236 | 25.8 | 20.5 | 30.7 |



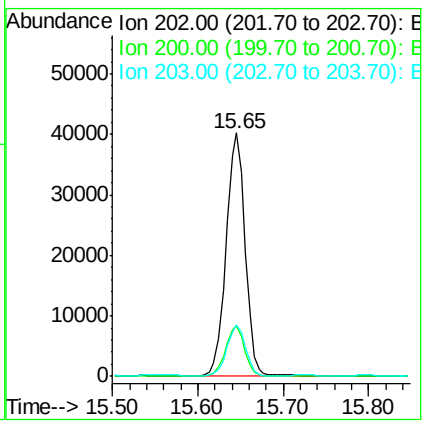


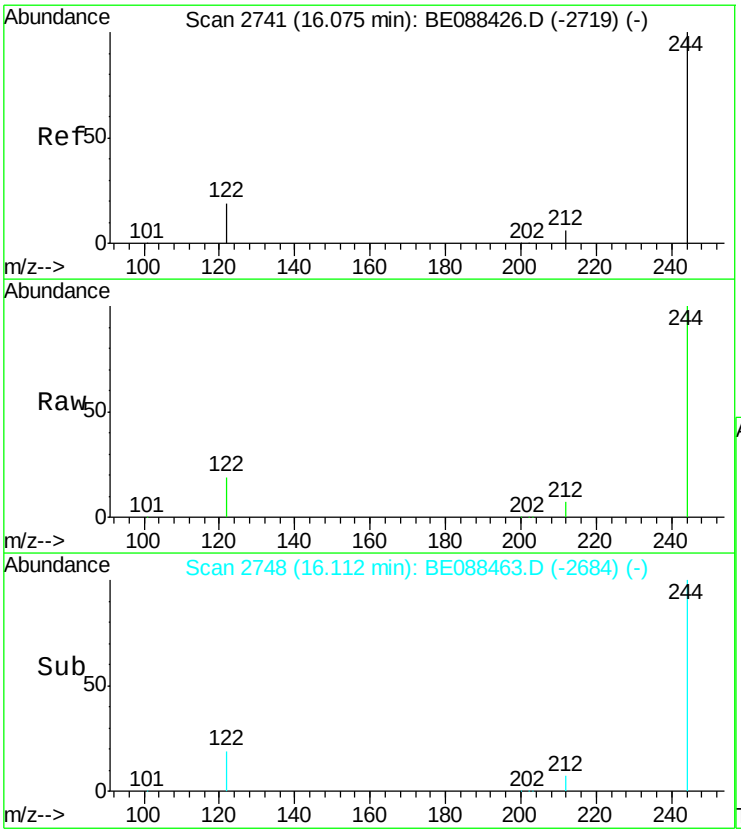

#17
Pyrene
Concen: 1.78 ng
RT: 15.65 min Scan# 2660
Delta R.T. 0.02 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SS28-1014RE

Tgt Ion:202 Resp: 61982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.3 | 16.1 | 24.1 |
| 203 | 20.6 | 13.8 | 20.8 |

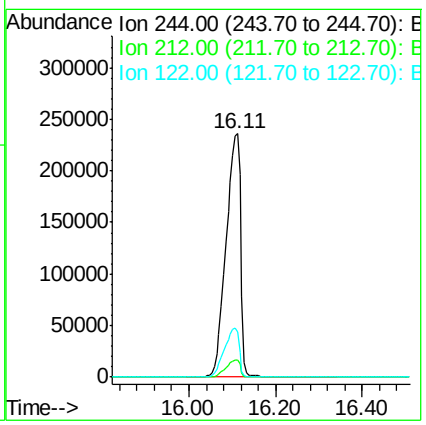


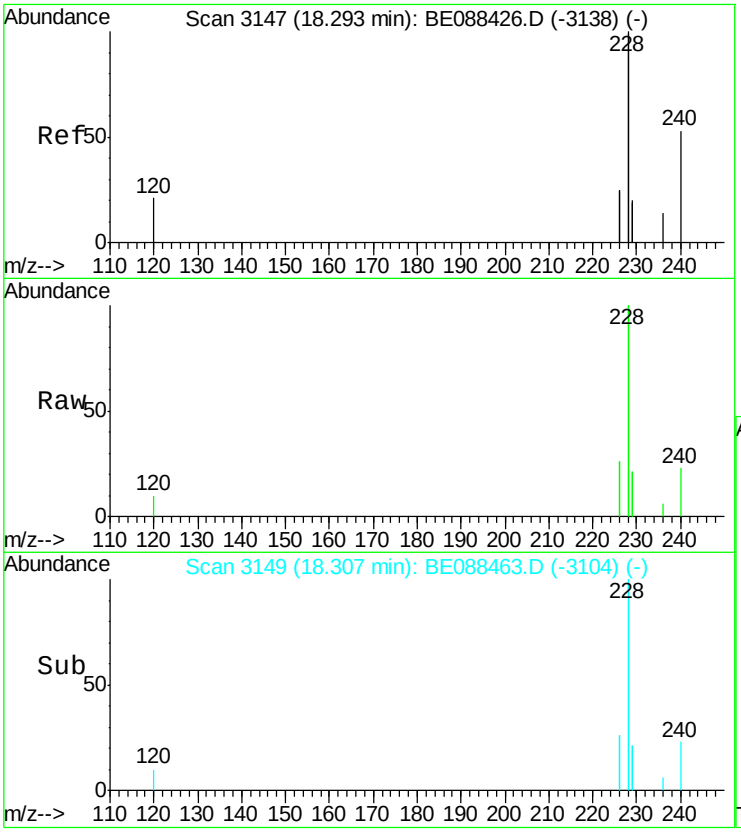




#18
Terphenyl-d14
Concen: 28.08 ng
RT: 16.11 min Scan# 2748
Delta R.T. 0.04 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

Tgt Ion:244 Resp: 550373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.1 | 5.5 | 8.3 |
| 122 | 18.6 | 15.6 | 23.4 |



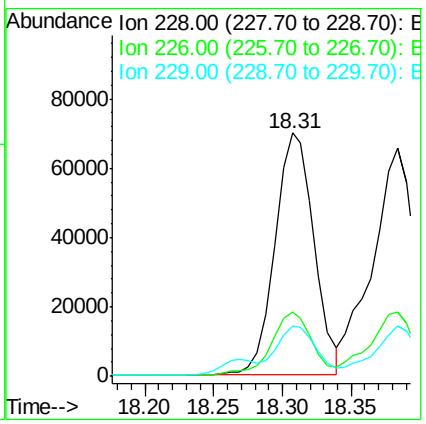


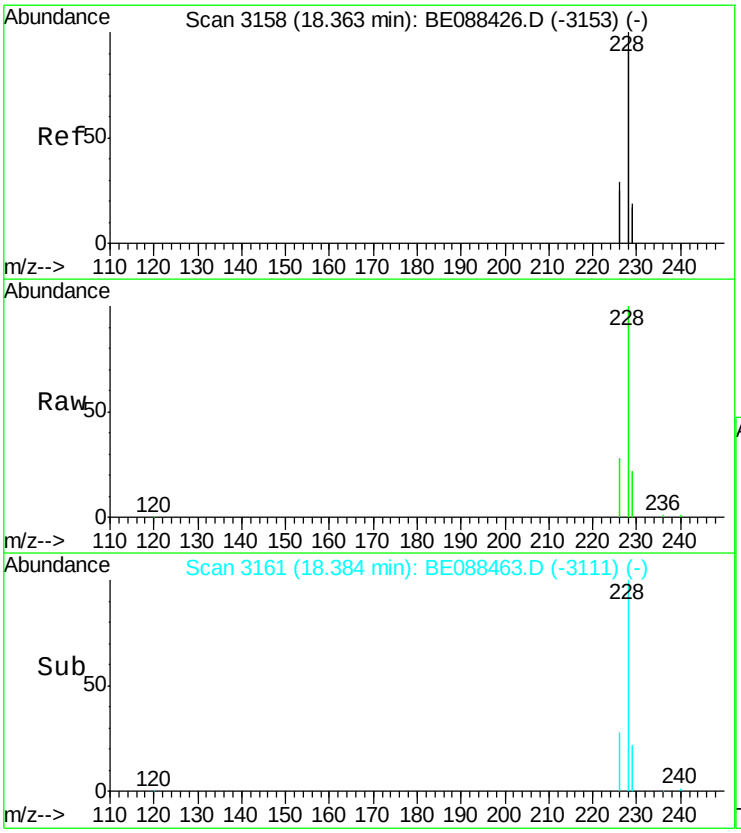

#19
Benzo(a)anthracene
Concen: 1.38 ng
RT: 18.31 min Scan# 3149
Delta R.T. 0.01 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SS28-1014RE

Tgt Ion:228 Resp: 138396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 26.2 | 19.8 | 29.6 |
| 229 | 20.7 | 16.0 | 24.0 |

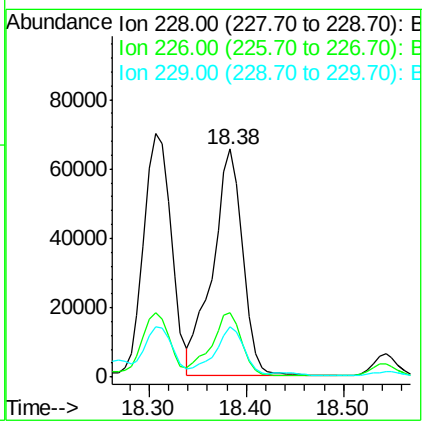


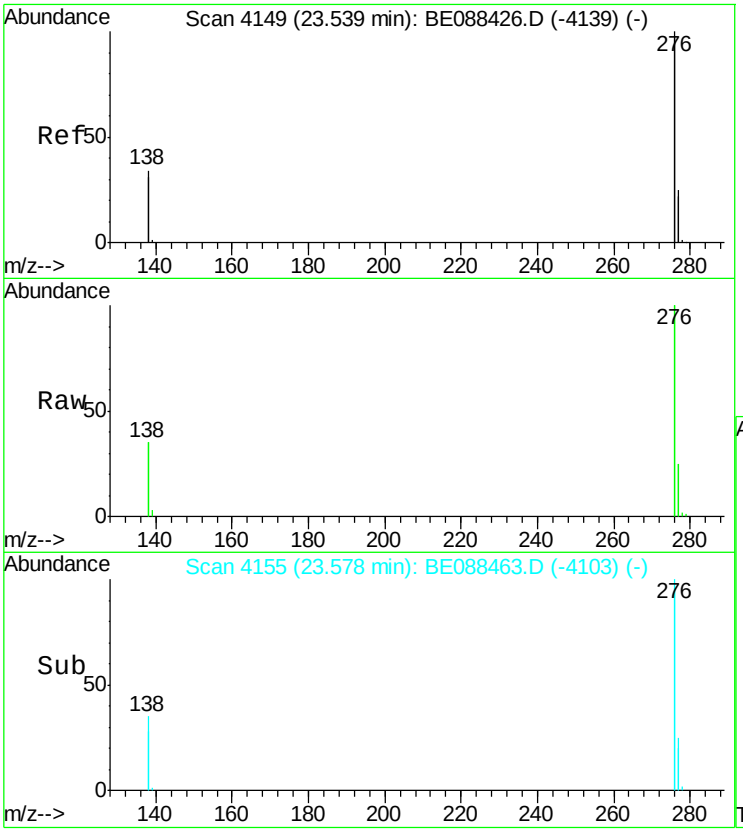




#20
Chrysene
Concen: 1.43 ng
RT: 18.38 min Scan# 3161
Delta R.T. 0.02 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

Tgt Ion:228 Resp: 141031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.5 | 23.6 | 35.4 |
| 229 | 22.1 | 15.4 | 23.2 |



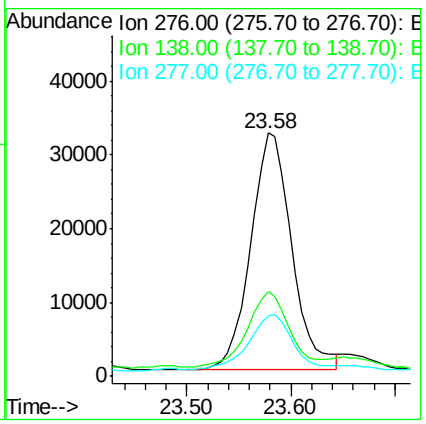


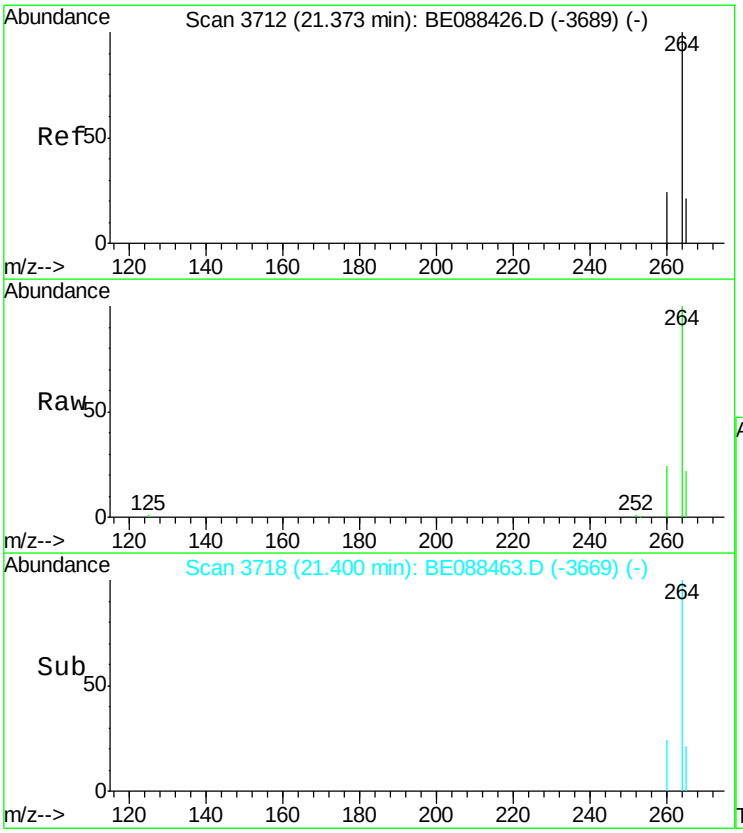

#21
Indeno(1,2,3-cd)pyrene
Concen: 0.96 ng
RT: 23.58 min Scan# 4155
Delta R.T. 0.04 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SS28-1014RE

Tgt Ion:276 Resp: 88223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 31.8 | 20.2 | 30.2# |
| 277 | 24.3 | 14.8 | 22.2# |

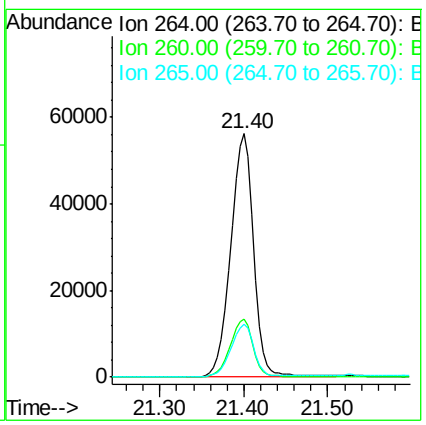


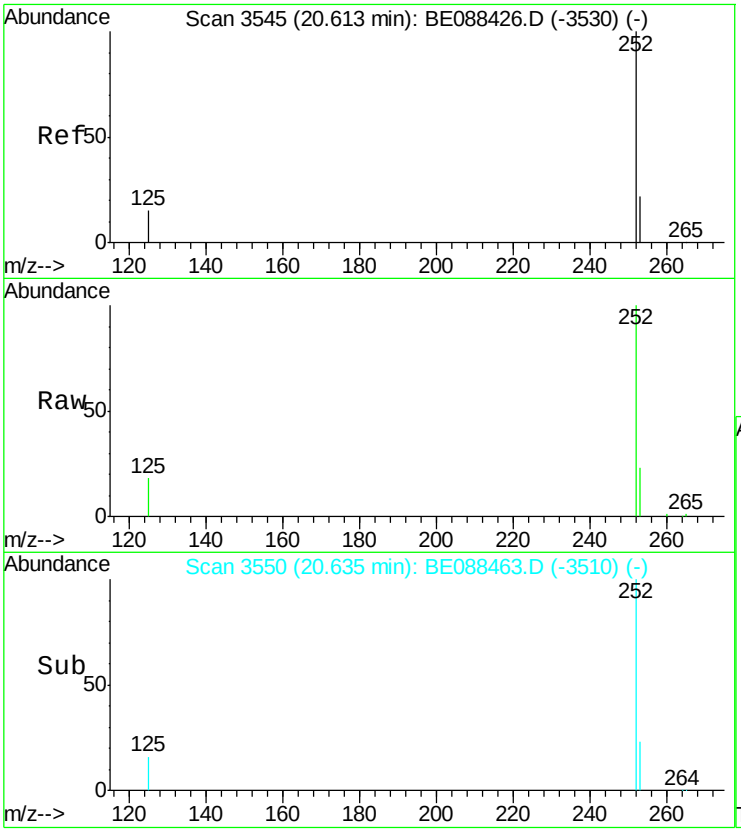




#22
Perylene-d12
Concen: 5.00 ng
RT: 21.40 min Scan# 3718
Delta R.T. 0.03 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

Tgt Ion:264 Resp: 104911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.0 | 18.9 | 28.3 |
| 265 | 21.7 | 17.2 | 25.8 |



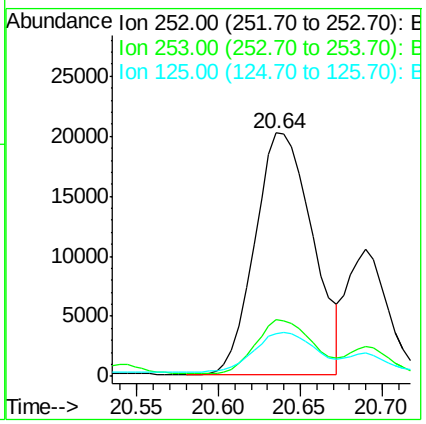


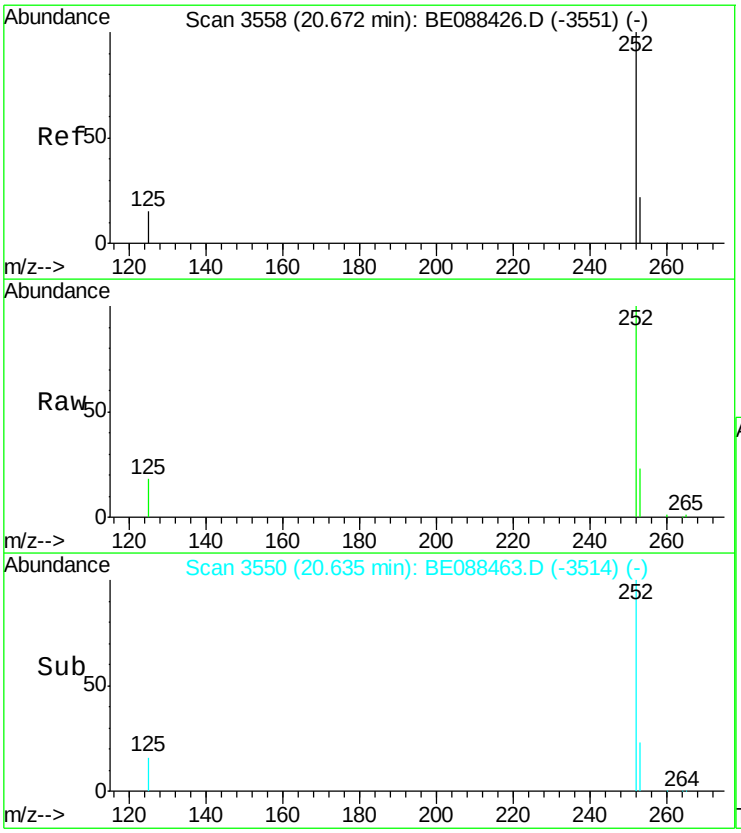

#23
Benzo(b)fluoranthene
Concen: 2.14 ng
RT: 20.64 min Scan# 3550
Delta R.T. 0.02 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SS28-1014RE

Tgt Ion:252 Resp: 49329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.1 | 17.8 | 26.8 |
| 125 | 17.5 | 12.3 | 18.5 |

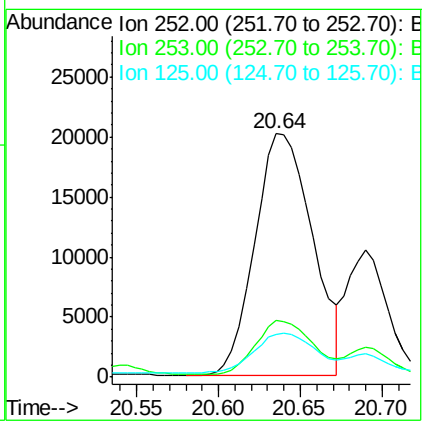


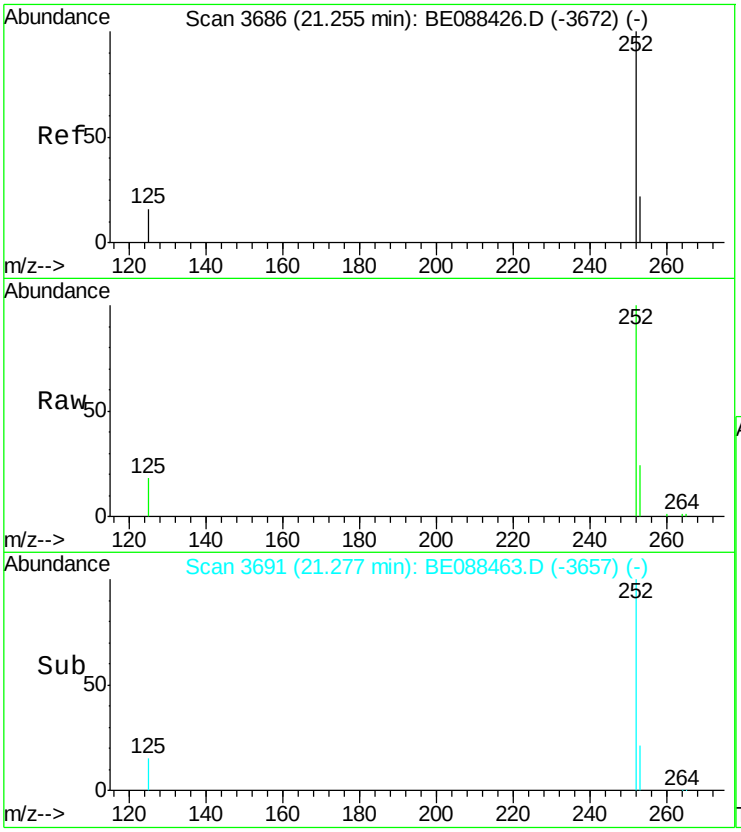




#24
Benzo(k)fluoranthene
Concen: 1.95 ng
RT: 20.64 min Scan# 3550
Delta R.T. -0.04 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

Tgt Ion:252 Resp: 49329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.1 | 17.8 | 26.8 |
| 125 | 17.5 | 12.2 | 18.4 |



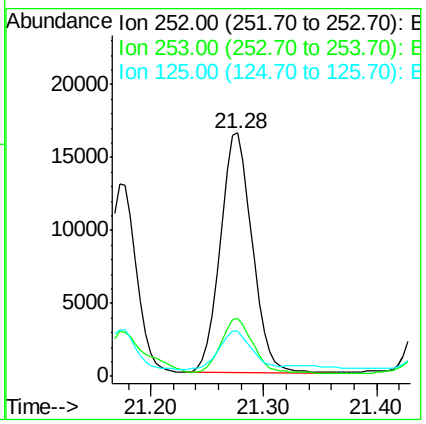


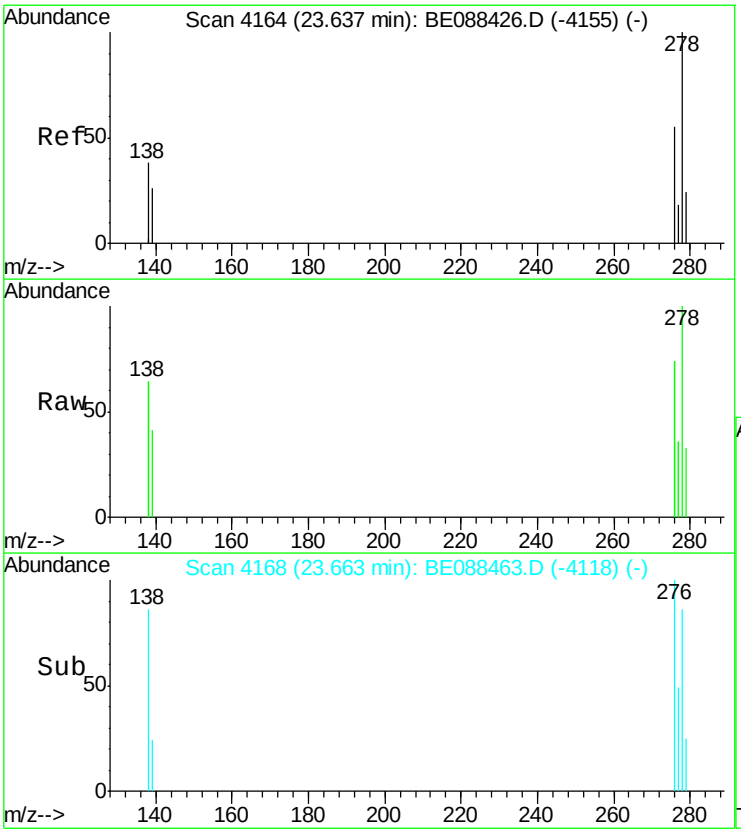

#25
Benzo(a)pyrene
Concen: 1.43 ng
RT: 21.28 min Scan# 3691
Delta R.T. 0.02 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SS28-1014RE

Tgt Ion:252 Resp: 31690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.8 | 18.2 | 27.4 |
| 125 | 18.4 | 13.7 | 20.5 |

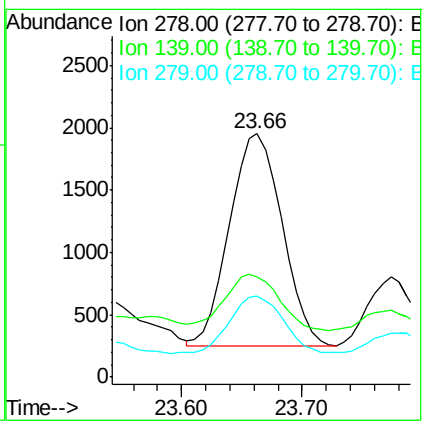


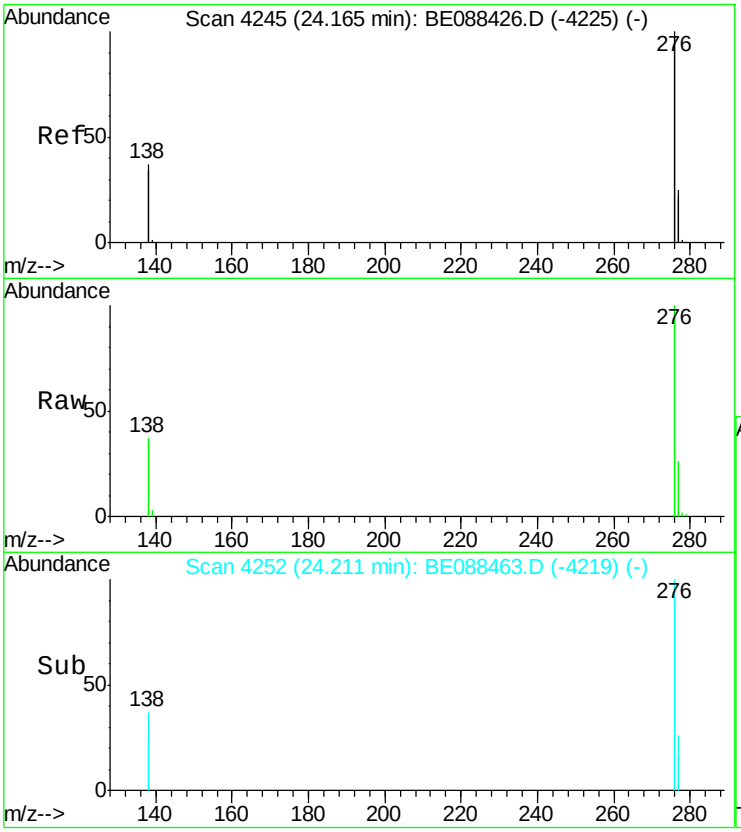




#26
Dibenzo(a,h)anthracene
Concen: 0.25 ng
RT: 23.66 min Scan# 4168
Delta R.T. 0.03 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

Tgt Ion:278 Resp: 5155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 41.2 | 22.1 | 33.1# |
| 279 | 33.5 | 19.7 | 29.5# |






#27
Benzo(g,h,i)perylene
Concen: 0.92 ng
RT: 24.21 min Scan# 4252
Delta R.T. 0.05 min
Lab File: BE088463.D
Acq: 1 Nov 2014 22:03

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SS28-1014RE

Tgt Ion:276 Resp: 86324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.6 | 19.8 | 29.6 |
| 138 | 36.8 | 29.3 | 43.9 |