Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052316\
Data File : BF087315.D
Acq On : 23 May 2016 23:24
Operator : UM/SJ
Sample : PB90822BL
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PB90822BL

Quant Time: May 24 01:57:19 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 24 01:40:43 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.61 | 152 | 123585 | 20.00 | ng | 0.00 |
| 21) Naphthalene-d8 | 9.64 | 136 | 517358 | 20.00 | ng | 0.00 |
| 38) Acenaphthene-d10 | 12.47 | 164 | 248779 | 20.00 | ng | -0.01 |
| 63) Phenanthrene-d10 | 14.88 | 188 | 506900 | 20.00 | ng | 0.00 |
| 75) Chrysene-d12 | 18.56 | 240 | 431216 | 20.00 | ng | 0.00 |
| 86) Perylene-d12 | 20.22 | 264 | 353481 | 20.00 | ng | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 5.53 | 112 | 945162 | 134.39 | ng | 0.01 |
| 7) Phenol-d6 | 7.14 | 99 | 1280419 | 134.73 | ng | -0.02 |
| 23) Nitrobenzene-d5 | 8.52 | 82 | 859843 | 83.76 | ng | -0.01 |
| 41) 2,4,6-Tribromophenol | 13.77 | 330 | 319221 | 133.53 | ng | -0.01 |
| 44) 2-Fluorobiphenyl | 11.42 | 172 | 1487813 | 84.31 | ng | -0.01 |
| 78) Terphenyl-d14 | 17.21 | 244 | 1552155 | 76.53 | ng | -0.01 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 1.68 | 88 | 146816 | 39.56 | ng | # 22 |
| 4) n-Nitrosodimethylamine | 2.50 | 42 | 767 | 0.12 | ng | # 1 |
| 6) Aniline | 7.18 | 93 | 274 | 0.02 | ng | # 1 |
| 9) Benzaldehyde | 7.14 | 77 | 1789 | 0.34 | ng | # 4 |
| 10) Phenol | 7.27 | 94 | 2123 | 0.20 | ng | # 1 |
| 11) bis(2-Chloroethyl)ether | 7.27 | 93 | 1155 | 0.14 | ng | # 1 |
| 15) Benzyl Alcohol | 7.84 | 79 | 14462 | 2.09 | ng | # 40 |
| 19) n-Nitroso-di-n-propylamine | 8.52 | 70 | 113568 | 16.02 | ng | # 77 |
| 24) Nitrobenzene | 8.52 | 77 | 2342 | 0.22 | ng | # 37 |
| 25) Isophorone | 9.11 | 82 | 728 | 0.04 | ng | # 68 |
| 45) 1,1'-Biphenyl | 11.42 | 154 | 2976 | 0.14 | ng | # 1 |
| 51) Acenaphthene | 12.47 | 154 | 898 | 0.06 | ng | # 5 |
| 62) Azobenzene | 13.76 | 77 | 1904 | 0.09 | ng | # 1 |
| 64) 4,6-Dinitro-2-methylphenol | 13.76 | 198 | 667 | 0.21 | ng | # 1 |
| 65) n-Nitrosodiphenylamine | 13.76 | 169 | 10770 | 0.66 | ng | # 51 |
| 73) Di-n-butylphthalate | 15.86 | 149 | 208 | 0.01 | ng | # 78 |
| 77) Pyrene | 17.21 | 202 | 5790 | 0.19 | ng | # 75 |
| 80) Benzo(a)anthracene | 18.56 | 228 | 796 | 0.03 | ng | # 50 |
| 82) Chrysene | 18.56 | 228 | 796 | 0.03 | ng | # 49 |
| 89) Benzo(a)pyrene | 20.22 | 252 | 957 | 0.05 | ng | # 60 |

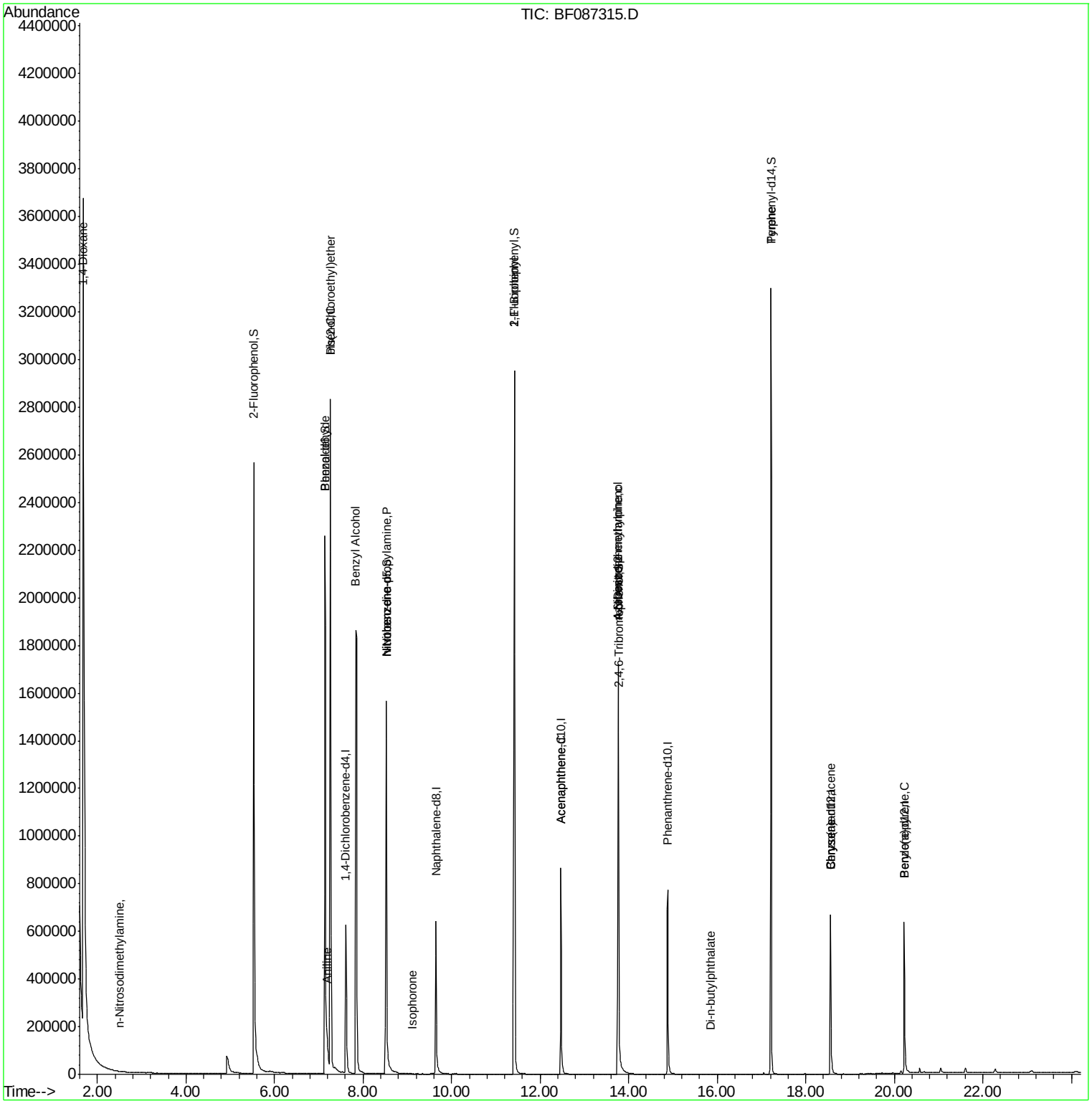
(#) = qualifier out of range (m) = manual integration (+) = signals summed

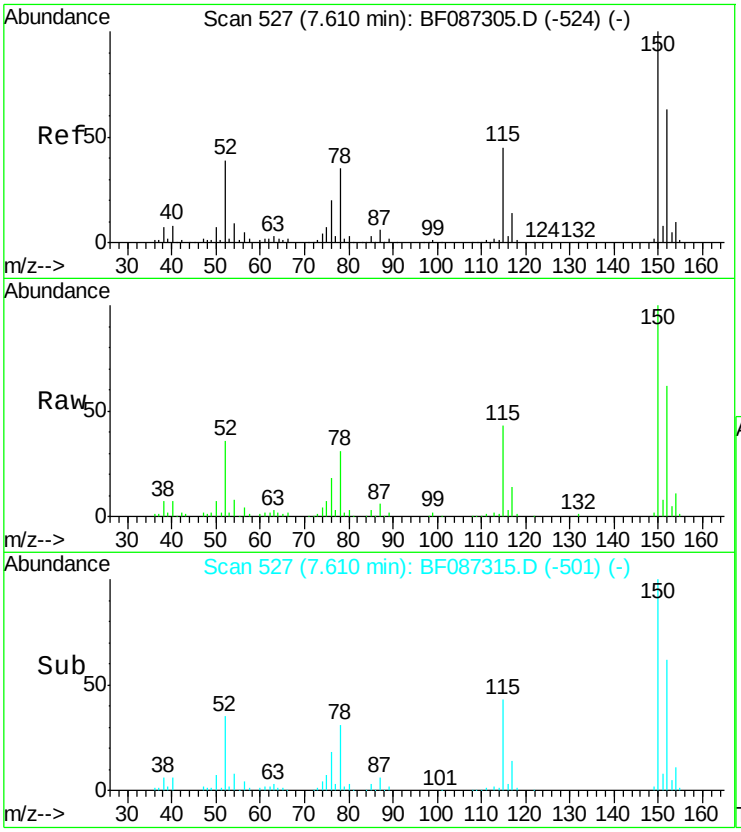
Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052316\
Data File : BF087315.D
Acq On : 23 May 2016 23:24
Operator : UM/SJ
Sample : PB90822BL
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PB90822BL

Quant Time: May 24 01:57:19 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 24 01:40:43 2016
Response via : Initial Calibration



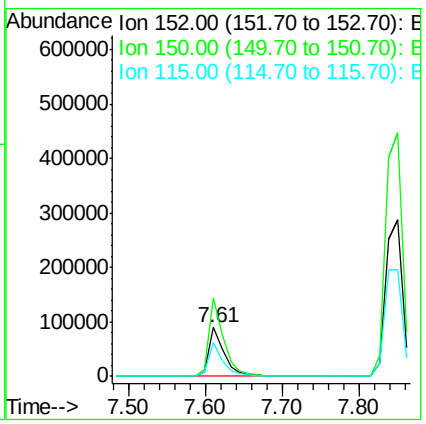


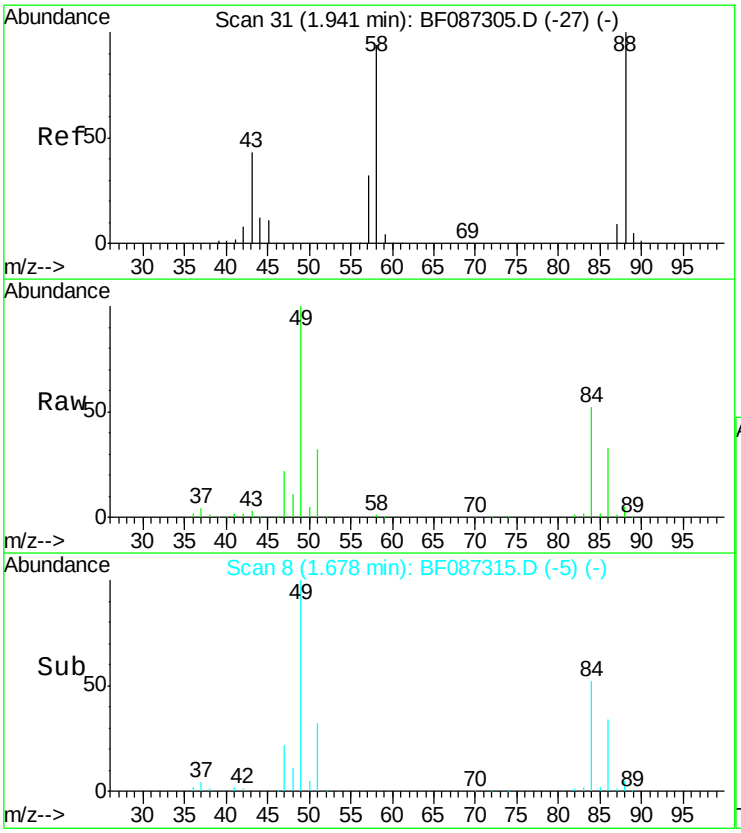

#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.61 min Scan# 527
Delta R.T. 0.00 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

**Instrument :**
BNA_F
**ClientSampleId :**
PB90822BL

Tgt Ion:152 Resp: 123585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 161.6 | 125.8 | 188.6 |
| 115 | 69.0 | 51.5 | 77.3 |

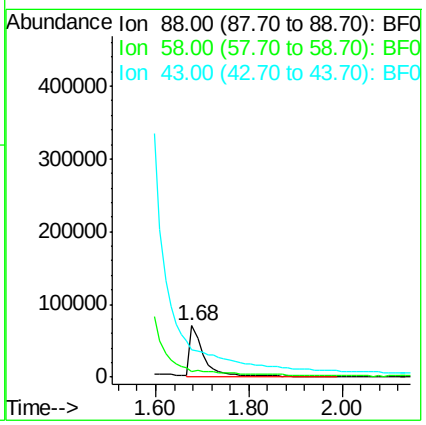


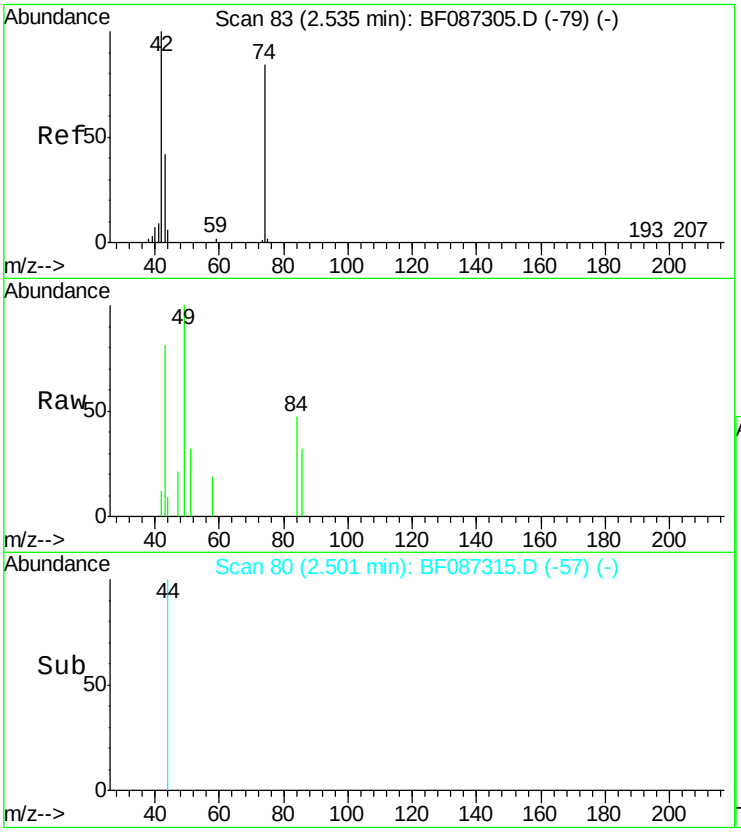




#2
1,4-Dioxane
Concen: 39.56 ng
RT: 1.68 min Scan# 8
Delta R.T. -0.26 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

Tgt Ion: 88 Resp: 146816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 0.0 | 59.6 | 89.4# |
| 43 | 0.0 | 21.8 | 32.6# |



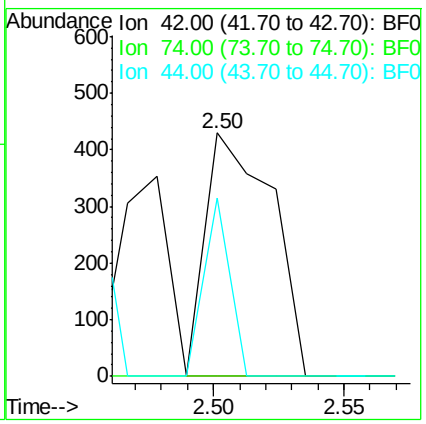


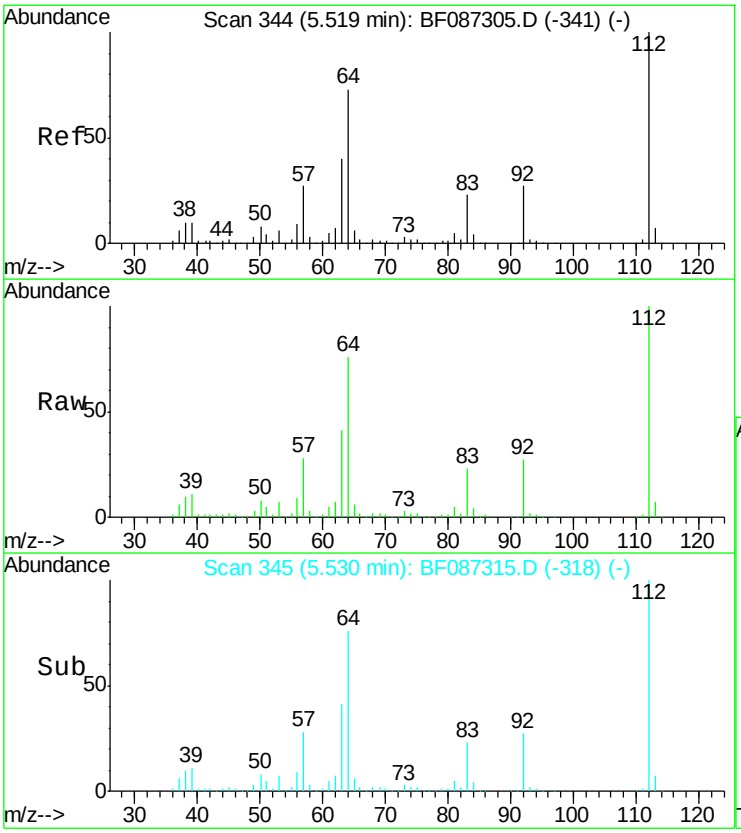

#4
n-Nitrosodimethylamine
Concen: 0.12 ng
RT: 2.50 min Scan# 80
Delta R.T. -0.03 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

**Instrument :**
BNA_F
**ClientSampleId :**
PB90822BL

Tgt Ion: 42 Resp: 767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 0.0 | 123.4 | 185.0# |
| 44 | 73.0 | 5.8 | 8.6# |

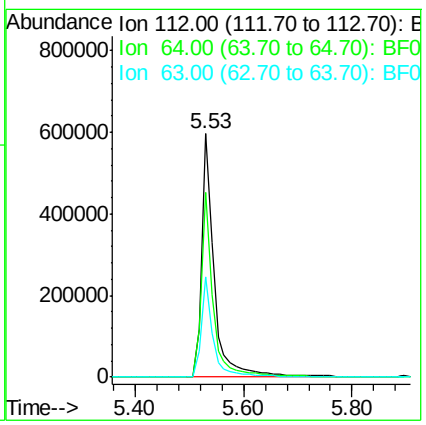


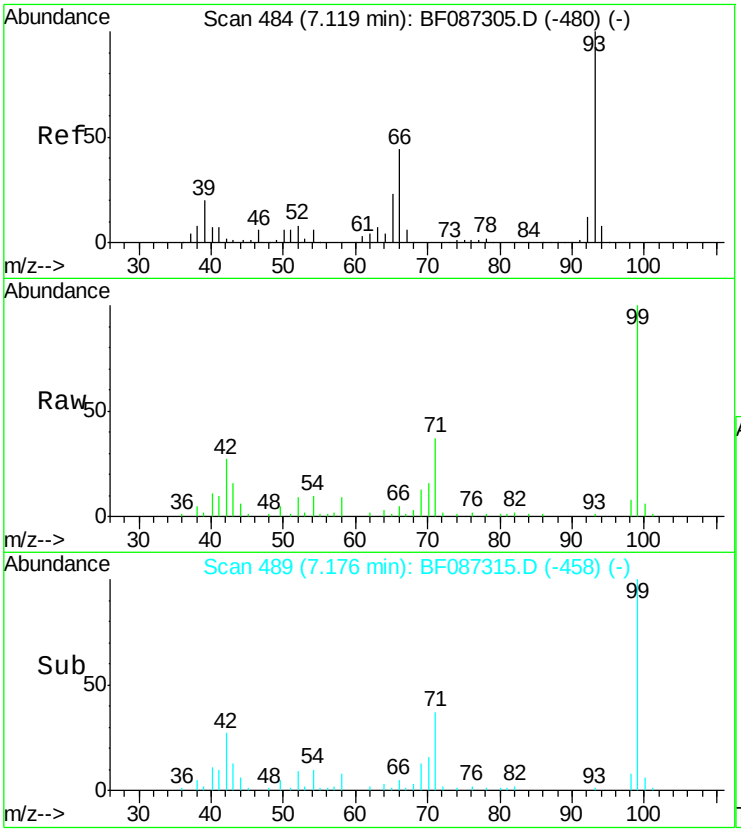




#5
2-Fluorophenol
Concen: 134.39 ng
RT: 5.53 min Scan# 345
Delta R.T. 0.01 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

Tgt Ion:112 Resp: 945162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 75.7 | 52.1 | 78.1 |
| 63 | 41.3 | 25.7 | 38.5# |



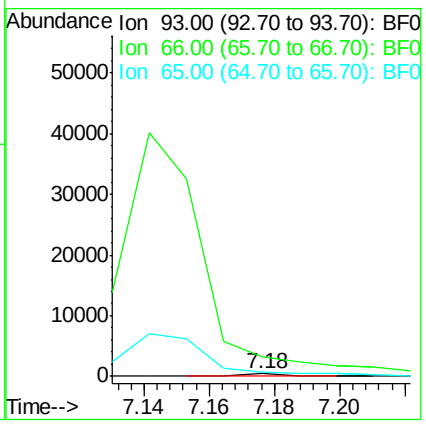


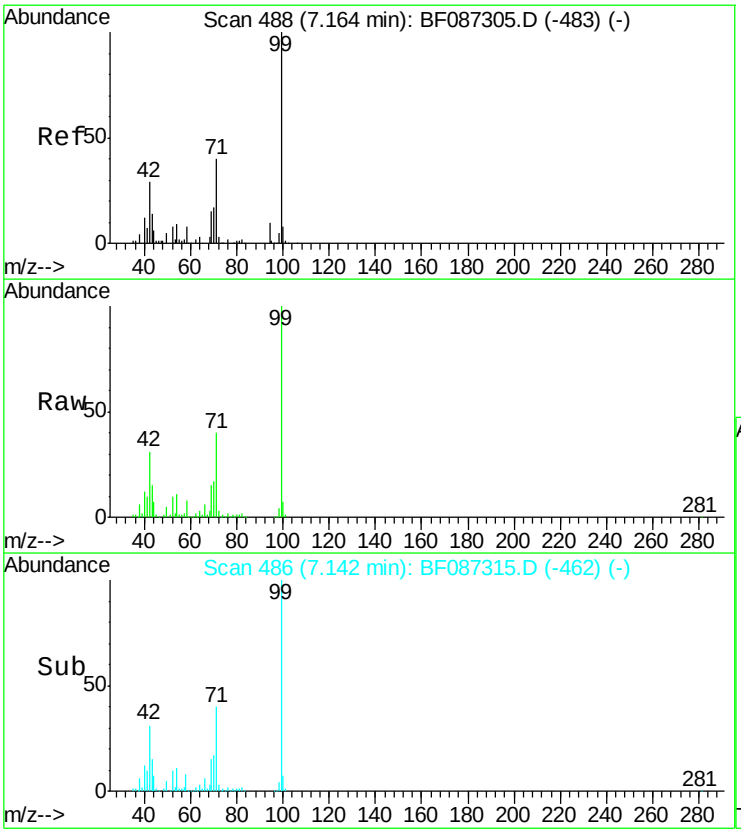

#6
Aniline
Concen: 0.02 ng
RT: 7.18 min Scan# 489
Delta R.T. 0.06 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

**Instrument :**
BNA_F
**ClientSampleId :**
PB90822BL

Tgt Ion: 93 Resp: 274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 818.8 | 39.0 | 58.6# |
| 65 | 173.0 | 20.6 | 31.0# |

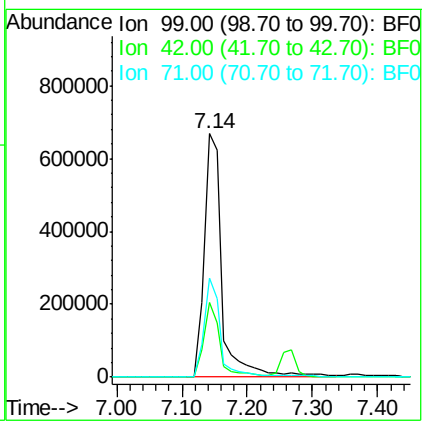


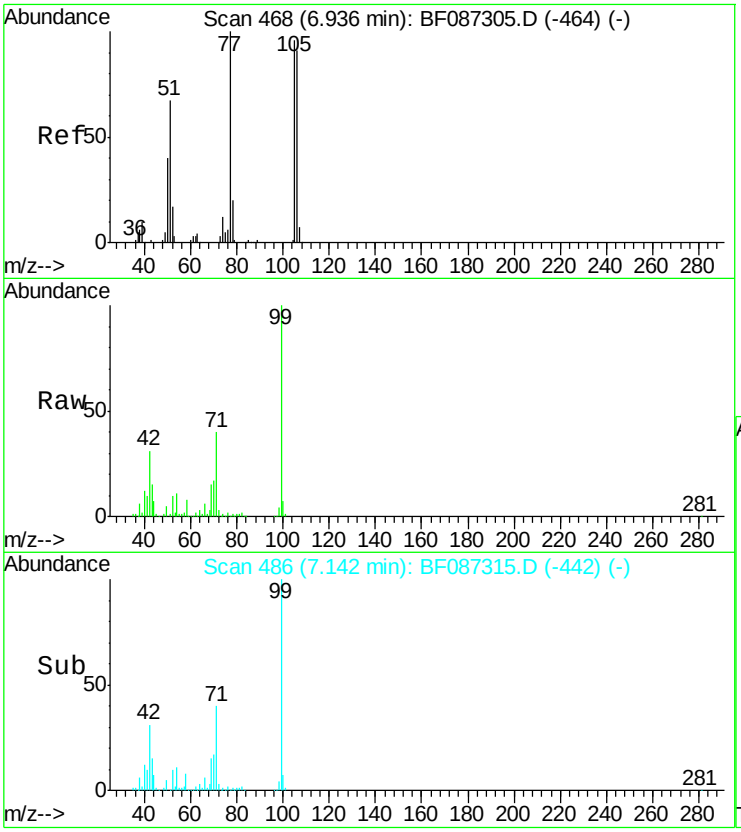




#7
Phenol-d6
Concen: 134.73 ng
RT: 7.14 min Scan# 486
Delta R.T. -0.02 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

Tgt Ion: 99 Resp: 1280419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 30.7 | 13.6 | 20.4# |
| 71 | 40.4 | 24.6 | 36.8# |



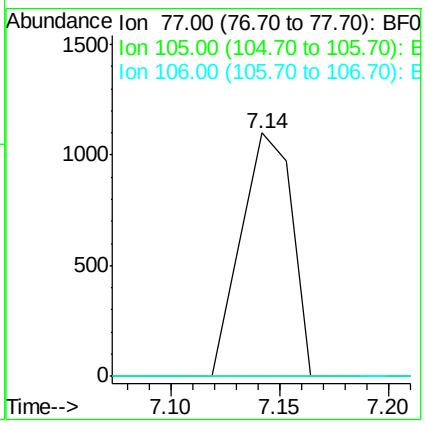


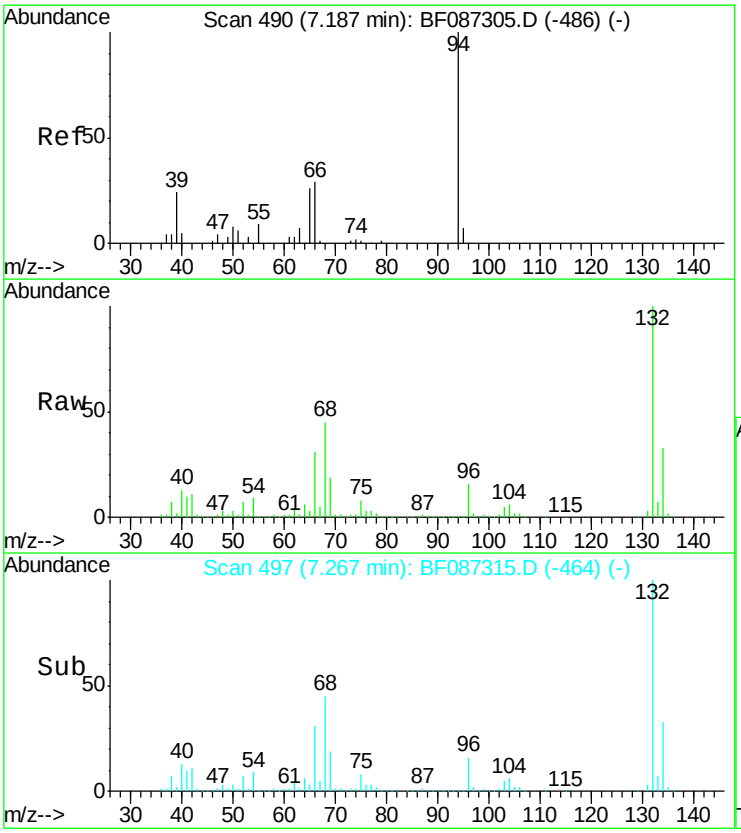

#9
Benzaldehyde
Concen: 0.34 ng
RT: 7.14 min Scan# 486
Delta R.T. 0.21 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

**Instrument :**
BNA_F
**ClientSampleId :**
PB90822BL

Tgt Ion: 77 Resp: 1789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 0.0 | 72.7 | 112.7# |
| 106 | 0.0 | 70.8 | 110.8# |

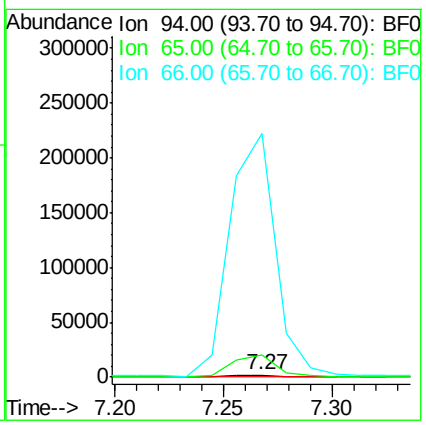


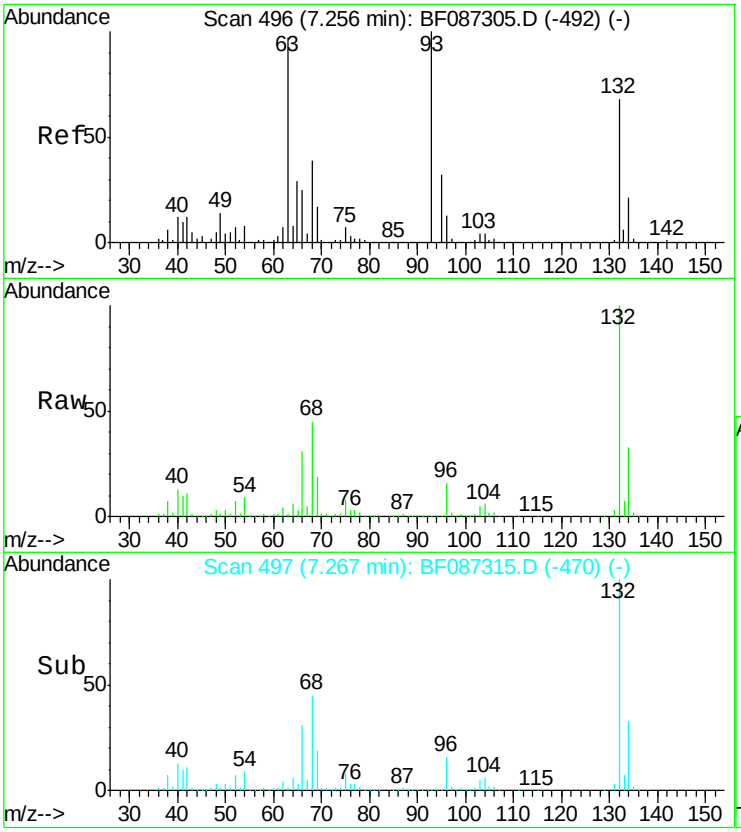




#10
Phenol
Concen: 0.20 ng
RT: 7.27 min Scan# 497
Delta R.T. 0.08 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

Tgt Ion: 94 Resp: 2123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 1187.8 | 7.2 | 47.2# |
| 66 | 13246.5 | 14.9 | 54.9# |



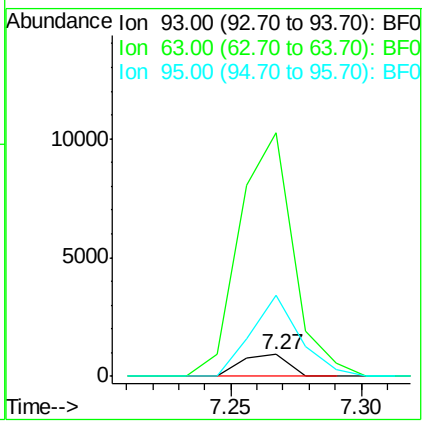


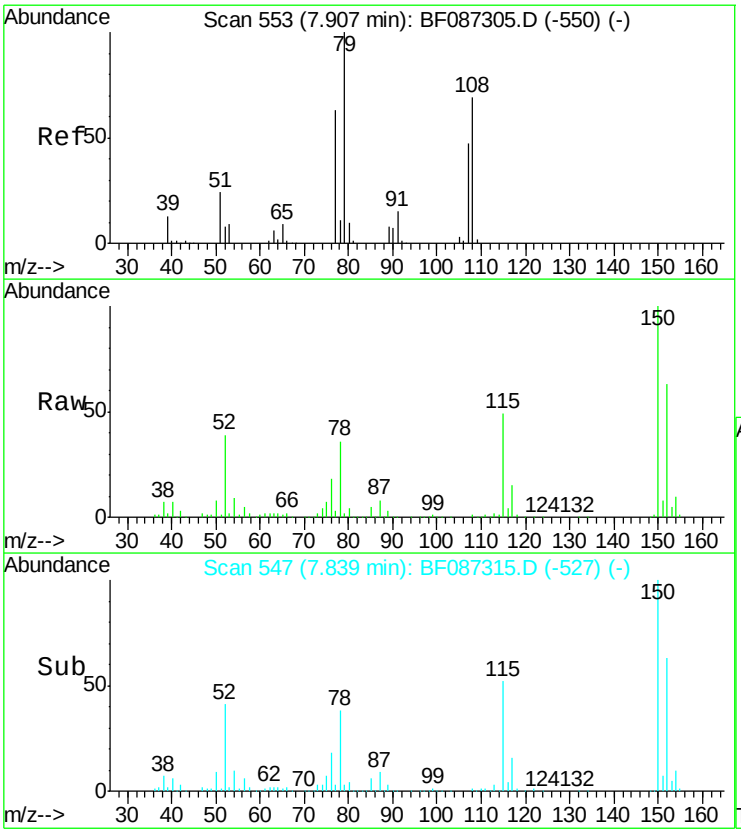

#11
bis(2-Chloroethyl)ether
Concen: 0.14 ng
RT: 7.27 min Scan# 497
Delta R.T. 0.01 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

**Instrument :**
BNA_F
**ClientSampleId :**
PB90822BL

Tgt Ion: 93 Resp: 1155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 1129.9 | 58.0 | 98.0# |
| 95 | 378.8 | 11.9 | 51.9# |

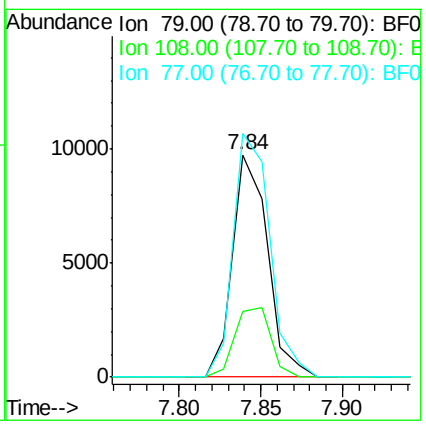


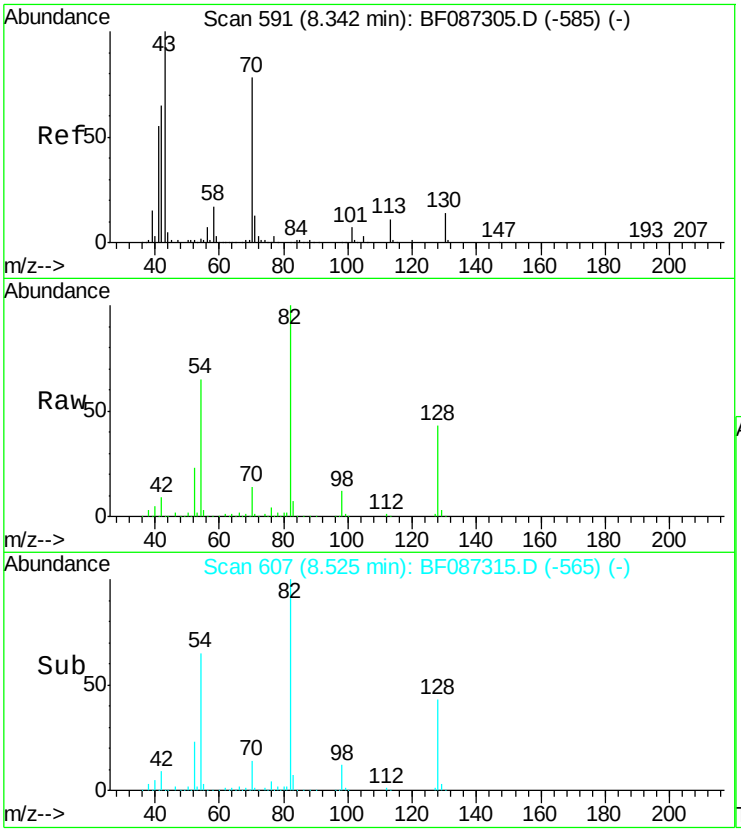




#15
Benzyl Alcohol
Concen: 2.09 ng
RT: 7.84 min Scan# 547
Delta R.T. -0.07 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

Tgt Ion: 79 Resp: 14462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 29.5 | 68.4 | 102.6# |
| 77 | 109.5 | 50.6 | 76.0# |



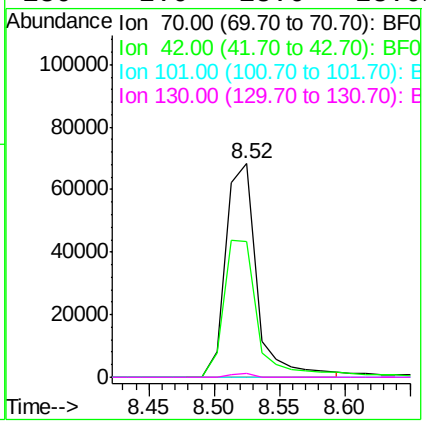


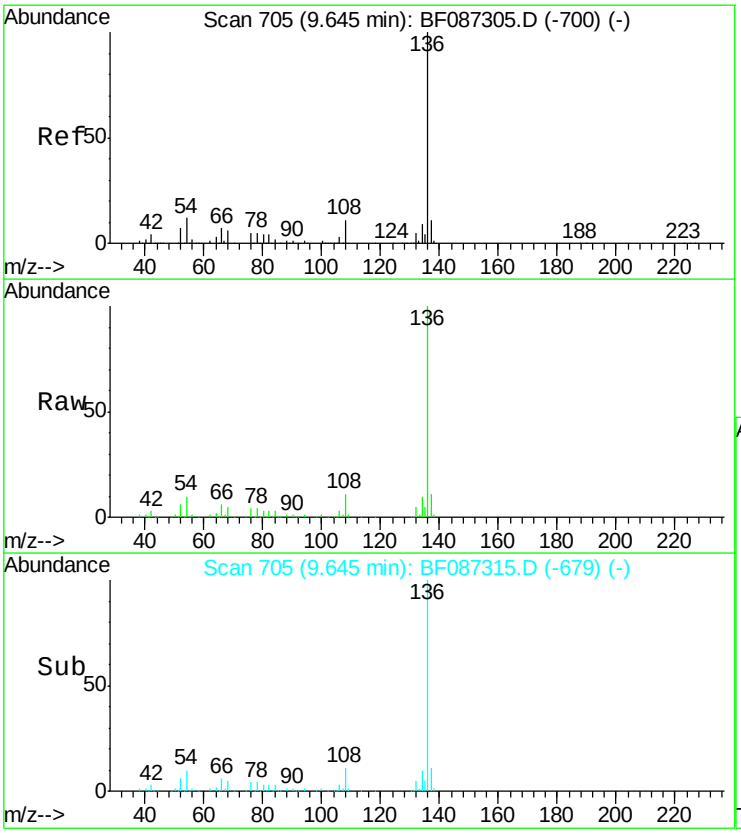

#19
n-Nitroso-di-n-propylamine
Concen: 16.02 ng
RT: 8.52 min Scan# 607
Delta R.T. 0.18 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

**Instrument :**
BNA_F
**ClientSampleId :**
PB90822BL

Tgt Ion: 70 Resp: 113568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 63.5 | 43.1 | 64.7 |
| 101 | 0.0 | 8.1 | 12.1# |
| 130 | 2.0 | 18.6 | 28.0# |

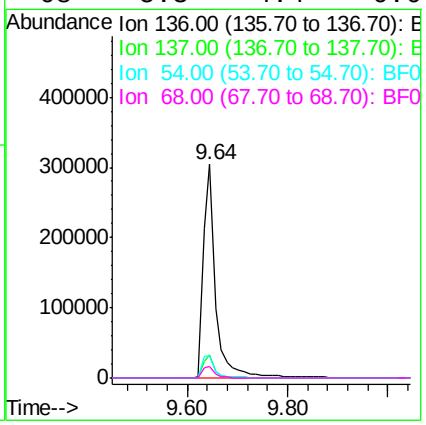


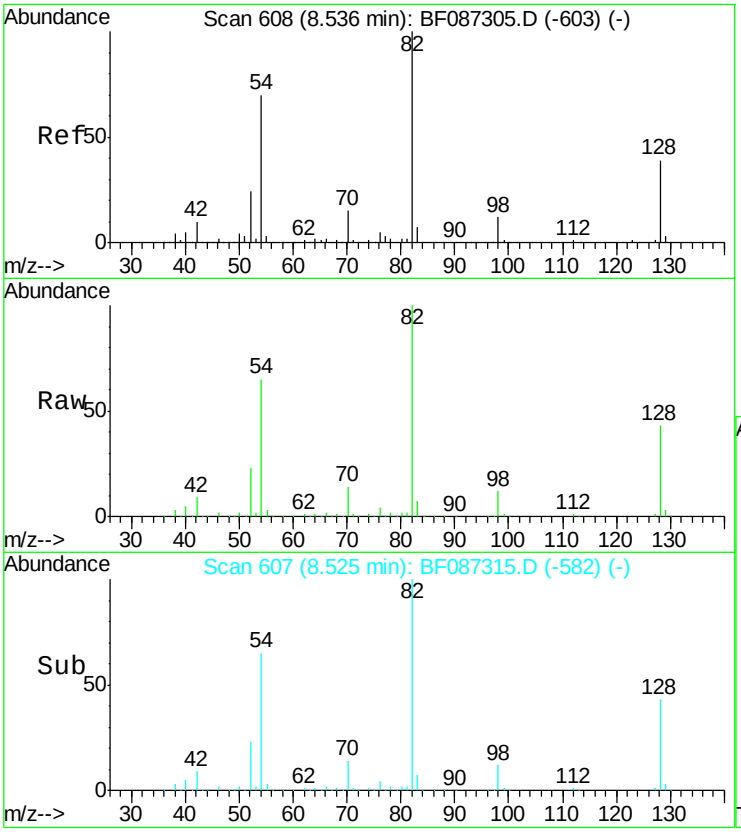




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.64 min Scan# 705
Delta R.T. 0.00 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

Tgt Ion:136 Resp: 517358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.5 | 8.8 | 13.2 |
| 54 | 10.2 | 5.0 | 7.4# |
| 68 | 5.3 | 4.4 | 6.6 |



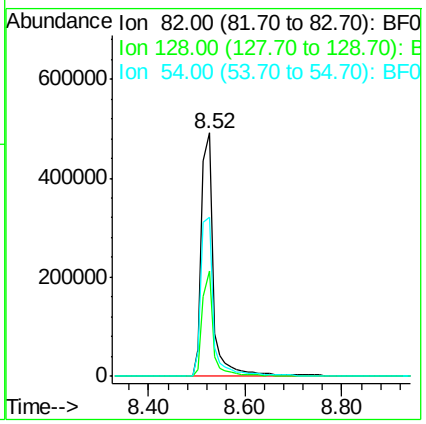


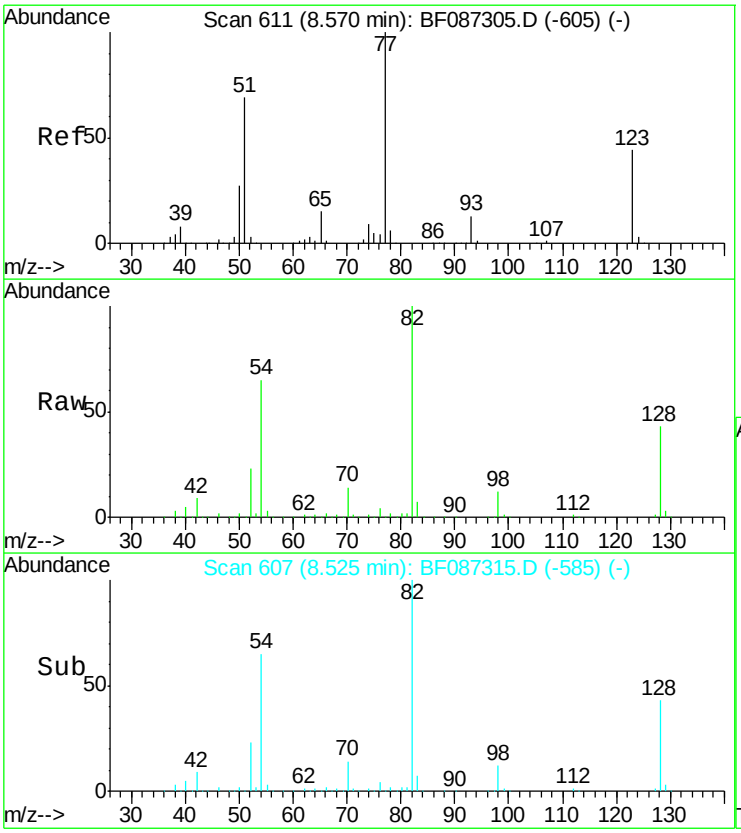

#23
Nitrobenzene-d5
Concen: 83.76 ng
RT: 8.52 min Scan# 607
Delta R.T. -0.01 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

**Instrument :**
BNA_F
**ClientSampleId :**
PB90822BL

Tgt Ion: 82 Resp: 859843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.4 | 40.6 | 61.0 |
| 54 | 65.3 | 38.1 | 57.1# |

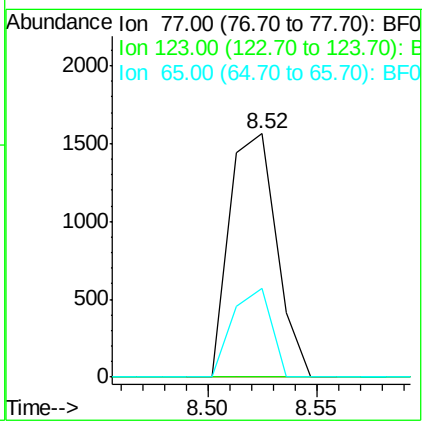


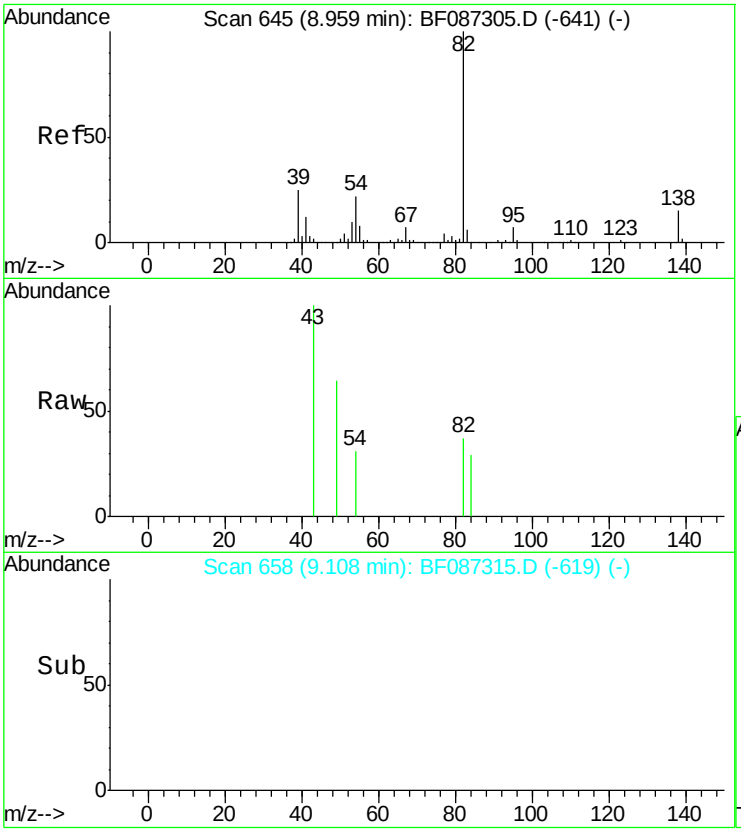




#24
Nitrobenzene
Concen: 0.22 ng
RT: 8.52 min Scan# 607
Delta R.T. -0.05 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

Tgt Ion: 77 Resp: 2342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 0.0 | 33.0 | 49.4# |
| 65 | 36.2 | 10.8 | 16.2# |



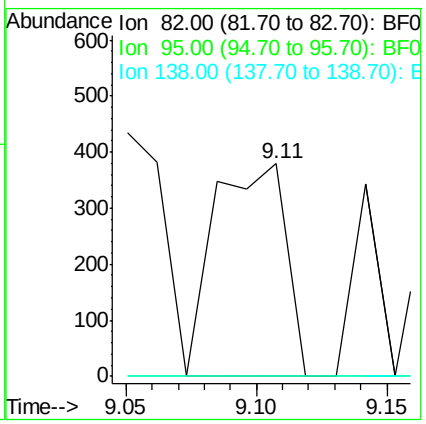


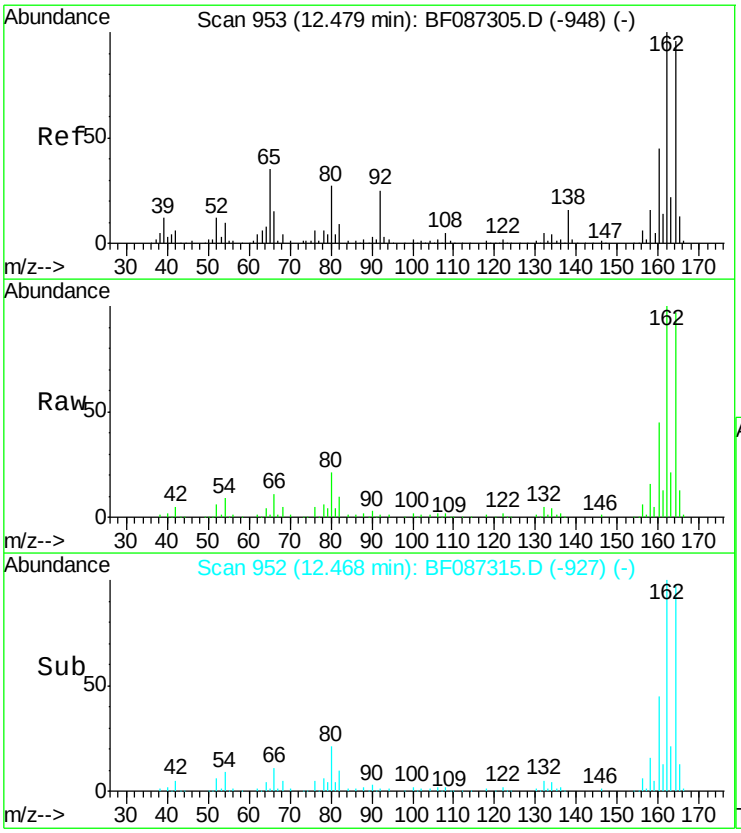

#25
Isophorone
Concen: 0.04 ng
RT: 9.11 min Scan# 658
Delta R.T. 0.15 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

**Instrument :**
BNA_F
**ClientSampleId :**
PB90822BL

Tgt Ion: 82 Resp: 728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 0.0 | 5.1 | 7.7# |
| 138 | 0.0 | 12.4 | 18.6# |

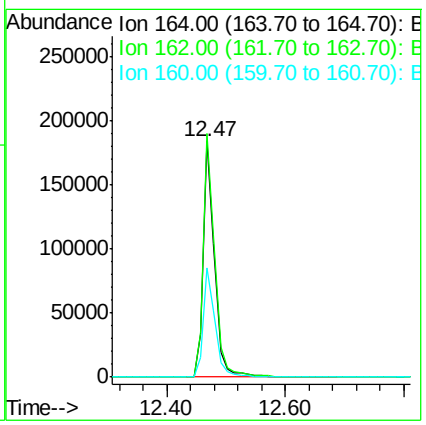


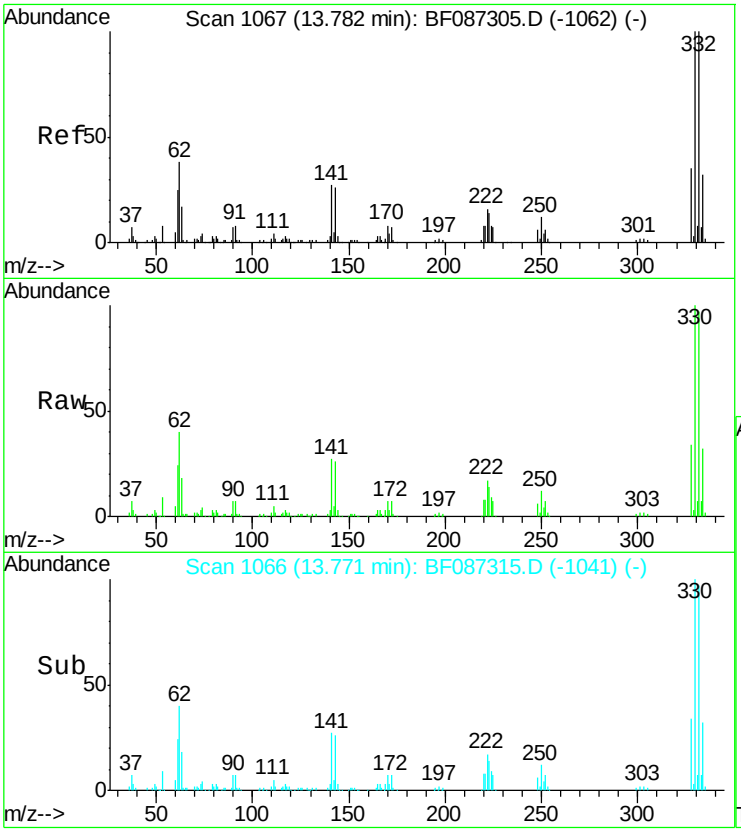




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.47 min Scan# 952
Delta R.T. -0.01 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

Tgt Ion:164 Resp: 248779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.3 | 82.8 | 124.2 |
| 160 | 46.6 | 36.9 | 55.3 |



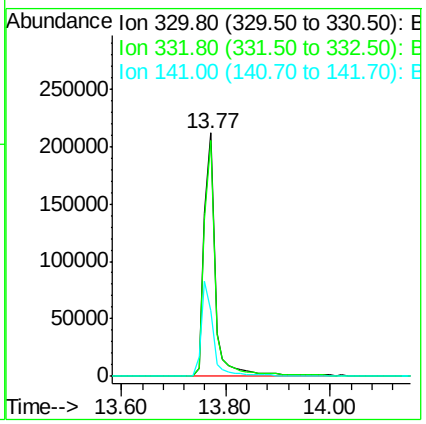


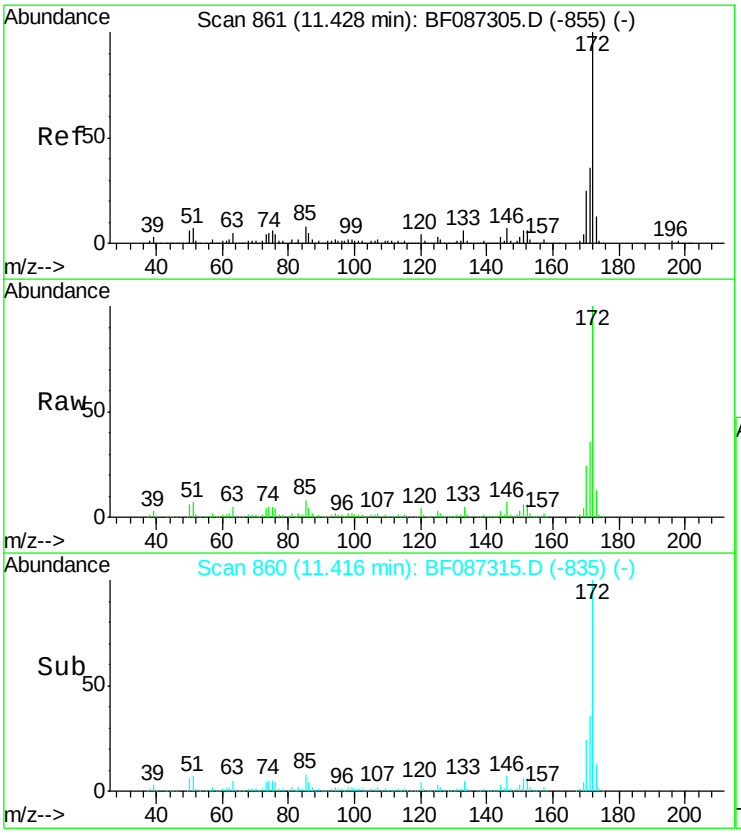

#41
2,4,6-Tribromophenol
Concen: 133.53 ng
RT: 13.77 min Scan# 1066
Delta R.T. -0.01 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

**Instrument :**
BNA_F
**ClientSampleId :**
PB90822BL

Tgt Ion:330 Resp: 319221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.0 | 79.0 | 118.4 |
| 141 | 40.6 | 31.2 | 46.8 |

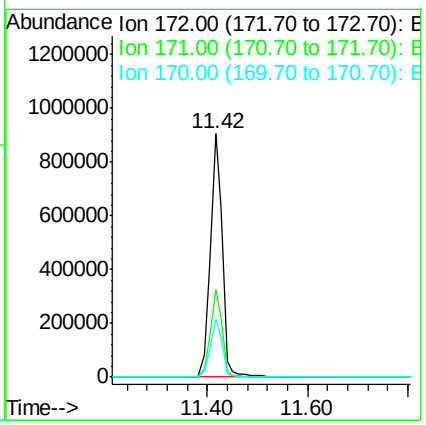


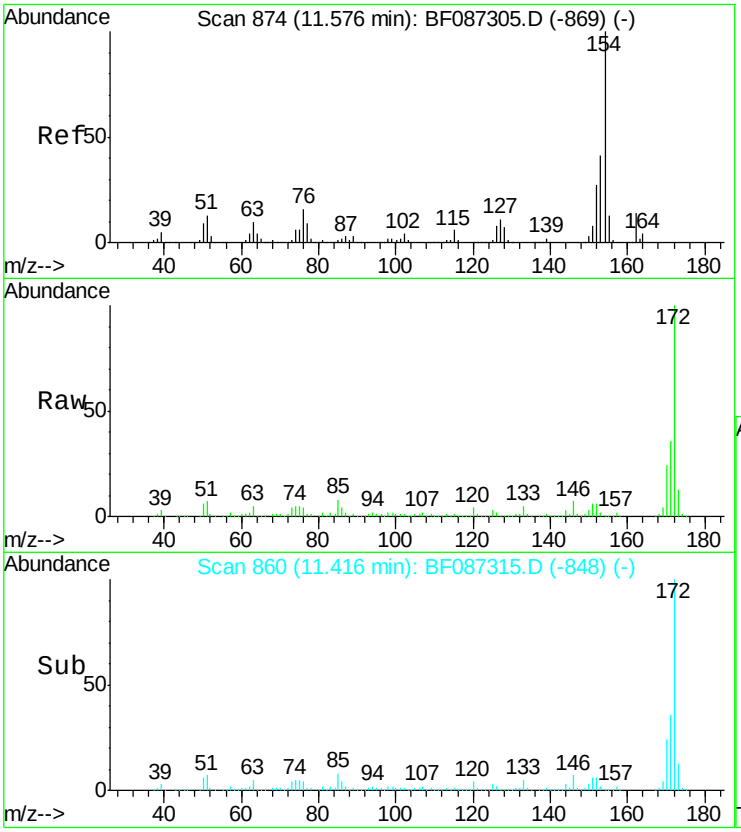




#44
2-Fluorobiphenyl
Concen: 84.31 ng
RT: 11.42 min Scan# 860
Delta R.T. -0.01 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

Tgt Ion:172 Resp: 1487813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.9 | 29.0 | 43.6 |
| 170 | 23.9 | 19.8 | 29.8 |



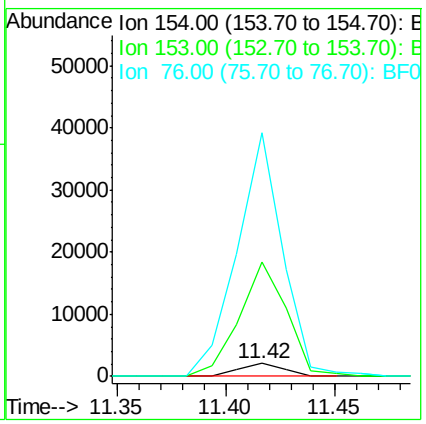


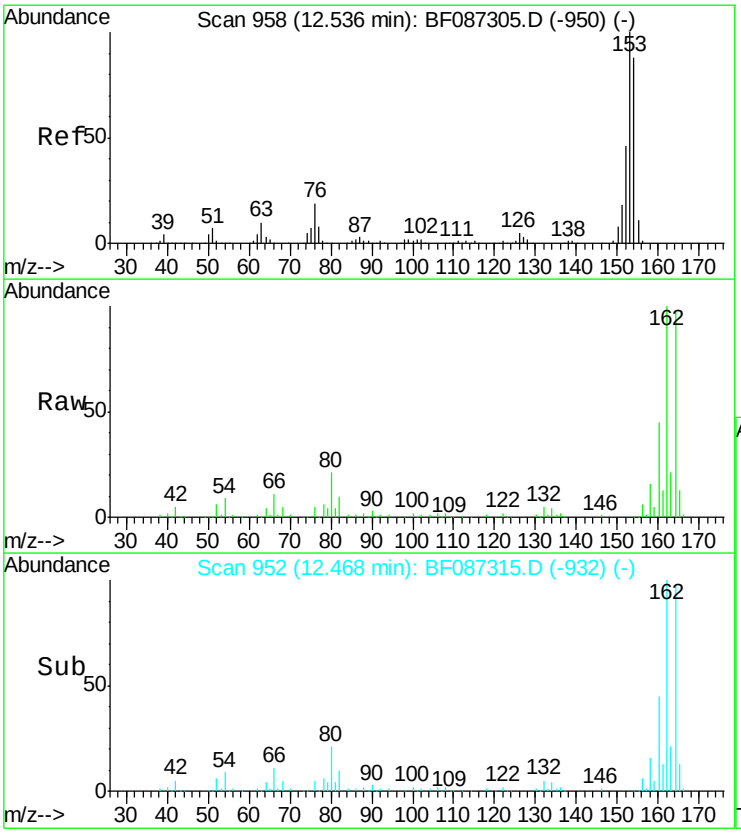

#45
1,1'-Biphenyl
Concen: 0.14 ng
RT: 11.42 min Scan# 860
Delta R.T. -0.16 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

**Instrument :**
BNA_F
**ClientSampleId :**
PB90822BL

Tgt Ion:154 Resp: 2976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 867.2 | 20.3 | 60.3# |
| 76 | 1851.2 | 0.0 | 30.2# |

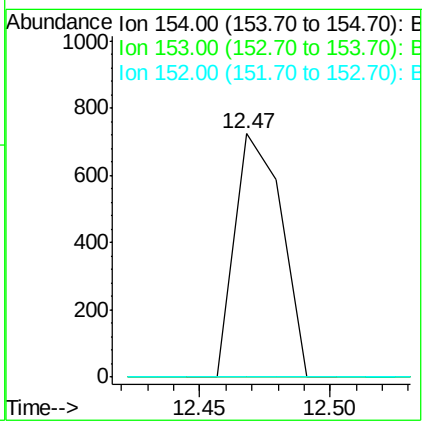


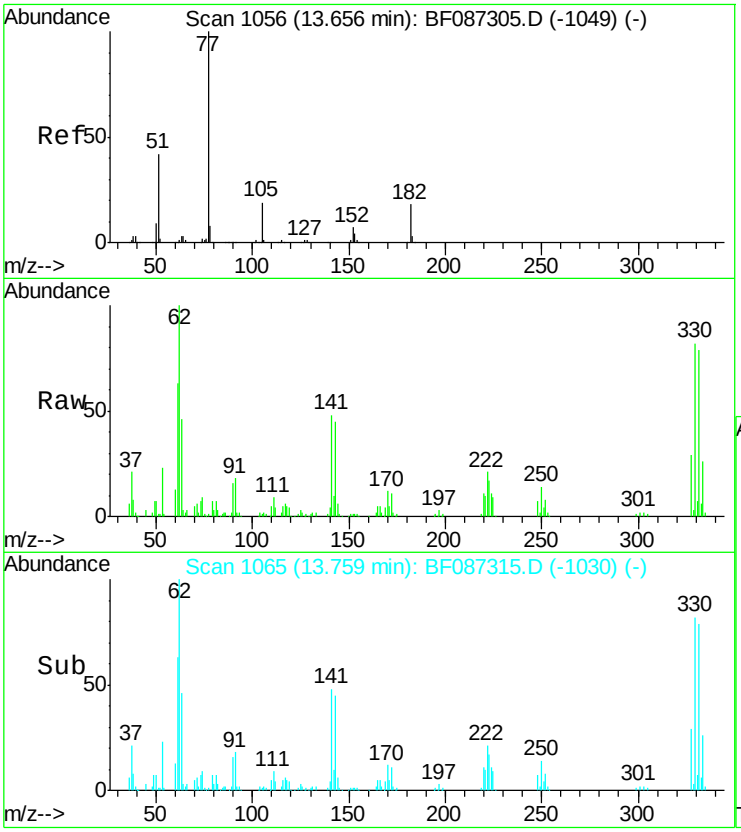




#51
Acenaphthene
Concen: 0.06 ng
RT: 12.47 min Scan# 952
Delta R.T. -0.07 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

Tgt Ion:154 Resp: 898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 0.0 | 89.8 | 134.6# |
| 152 | 0.0 | 43.4 | 65.0# |



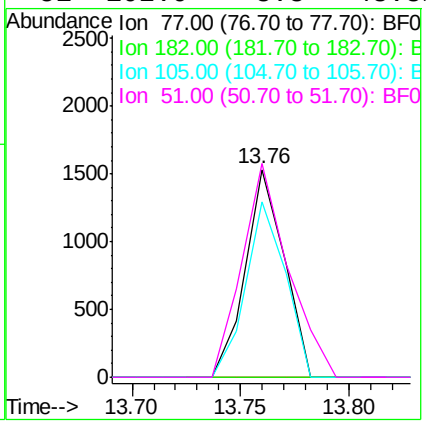


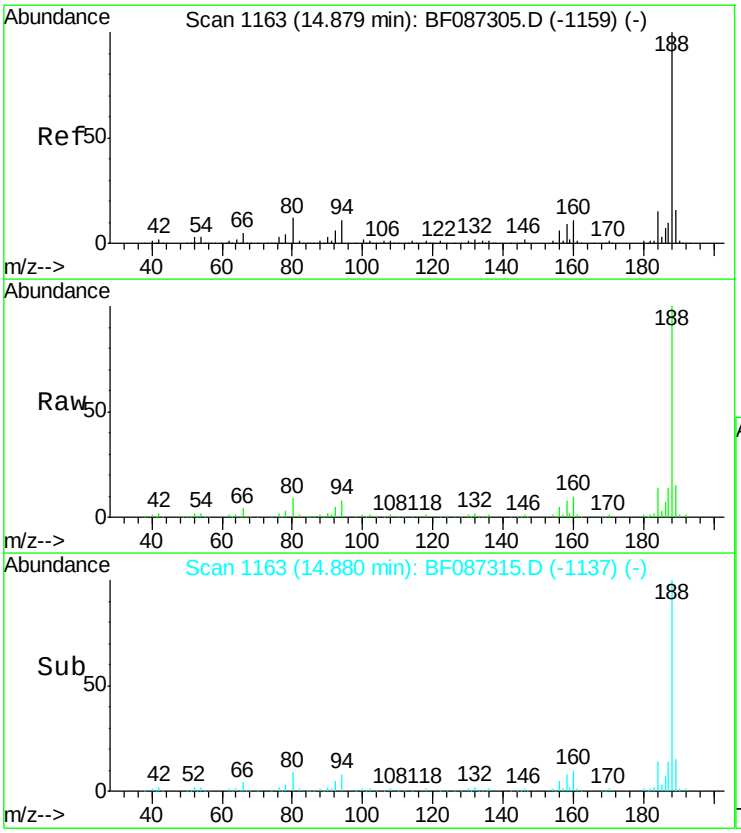

#62
Azobenzene
Concen: 0.09 ng
RT: 13.76 min Scan# 1065
Delta R.T. 0.10 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

**Instrument :**
BNA_F
**ClientSampleId :**
PB90822BL

Tgt Ion: 77 Resp: 1904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 0.0 | 0.0 | 38.8 |
| 105 | 84.4 | 3.2 | 43.2# |
| 51 | 102.9 | 8.8 | 48.8# |

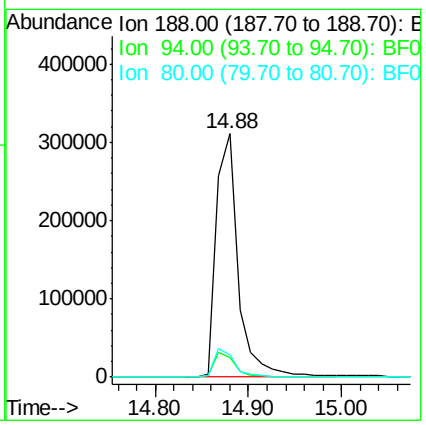


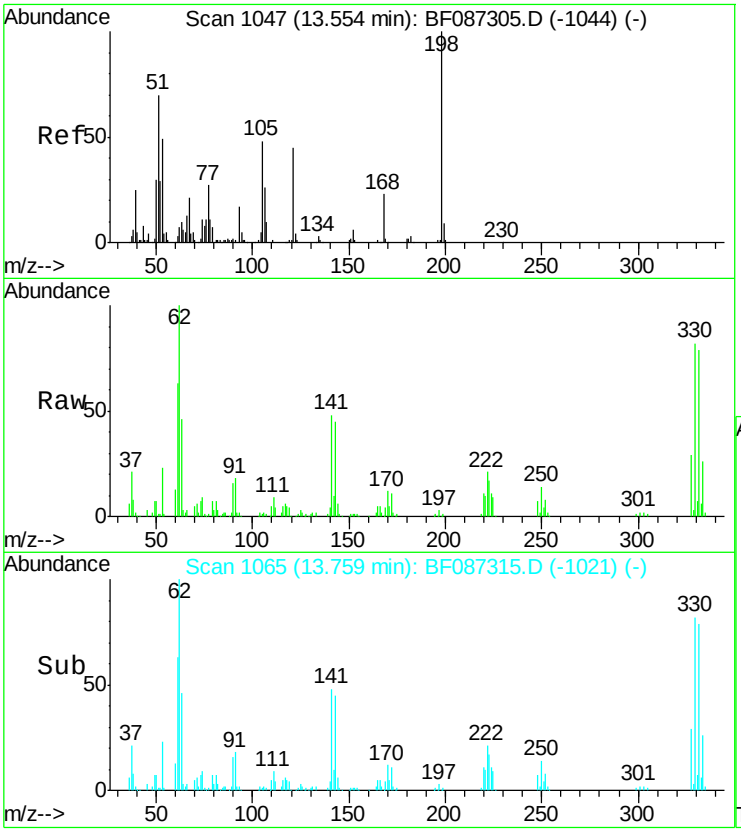




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.88 min Scan# 1163
Delta R.T. 0.00 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

Tgt Ion:188 Resp: 506900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.3 | 6.8 | 10.2 |
| 80 | 9.0 | 7.1 | 10.7 |



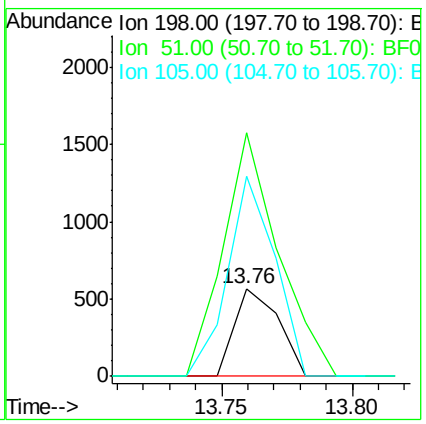


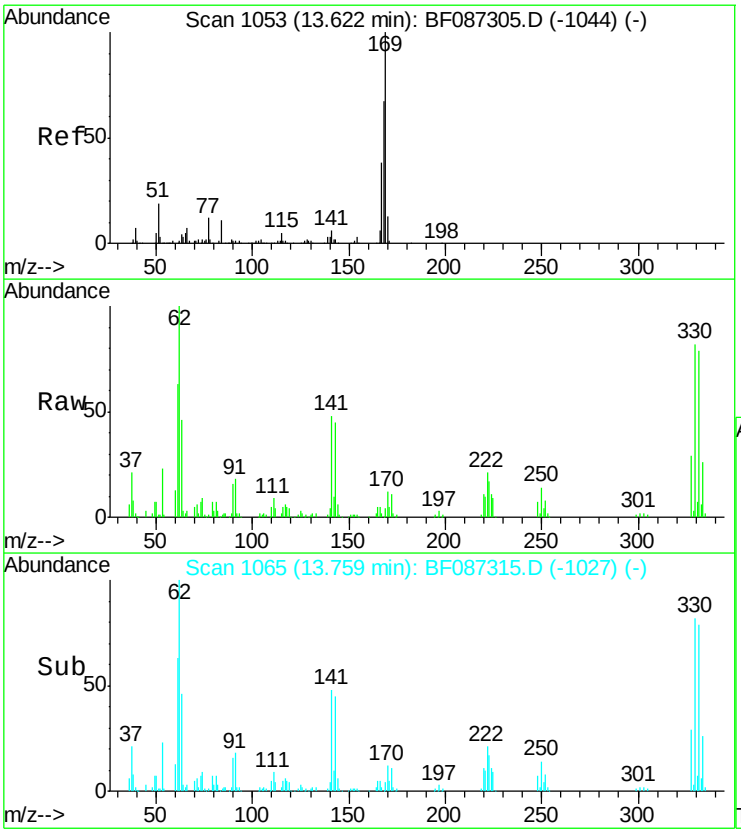

#64
4,6-Dinitro-2-methylphenol
Concen: 0.21 ng
RT: 13.76 min Scan# 1065
Delta R.T. 0.21 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

**Instrument :**
BNA_F
**ClientSampleId :**
PB90822BL

Tgt Ion:198 Resp: 667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 277.8 | 20.5 | 60.5# |
| 105 | 227.9 | 24.5 | 64.5# |

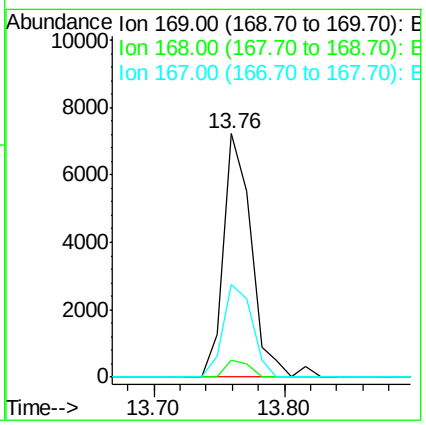


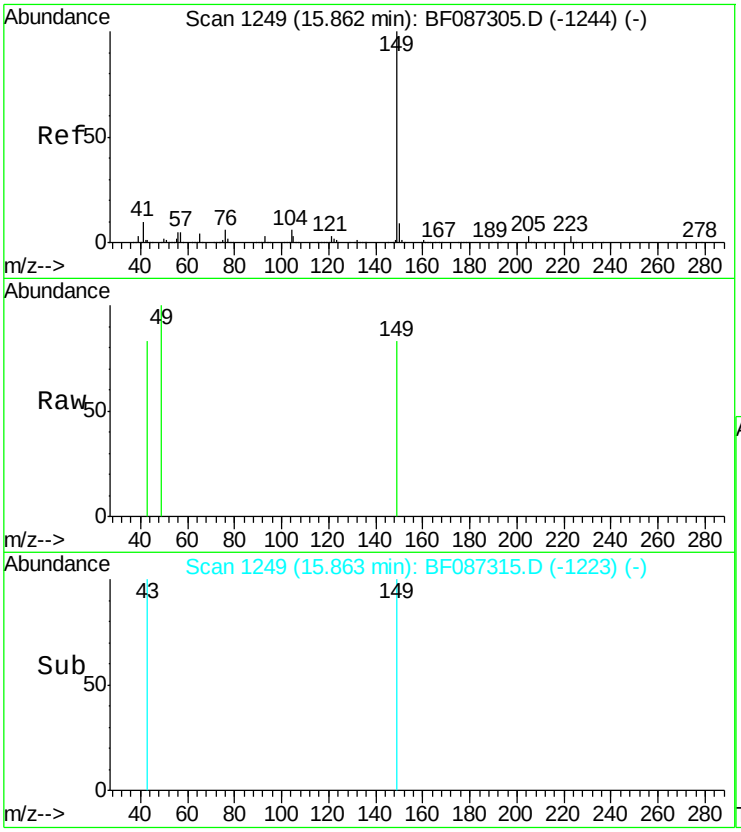




#65
n-Nitrosodiphenylamine
Concen: 0.66 ng
RT: 13.76 min Scan# 1065
Delta R.T. 0.14 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

Tgt Ion:169 Resp: 10770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 7.1 | 53.8 | 80.6# |
| 167 | 38.1 | 29.5 | 44.3 |



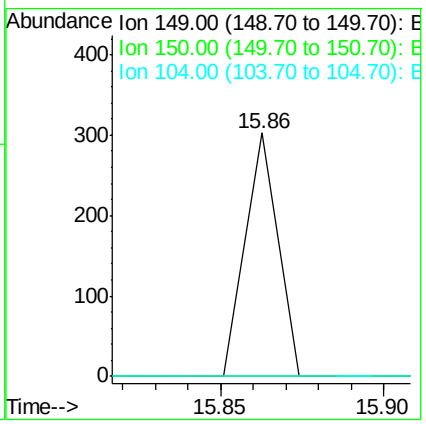


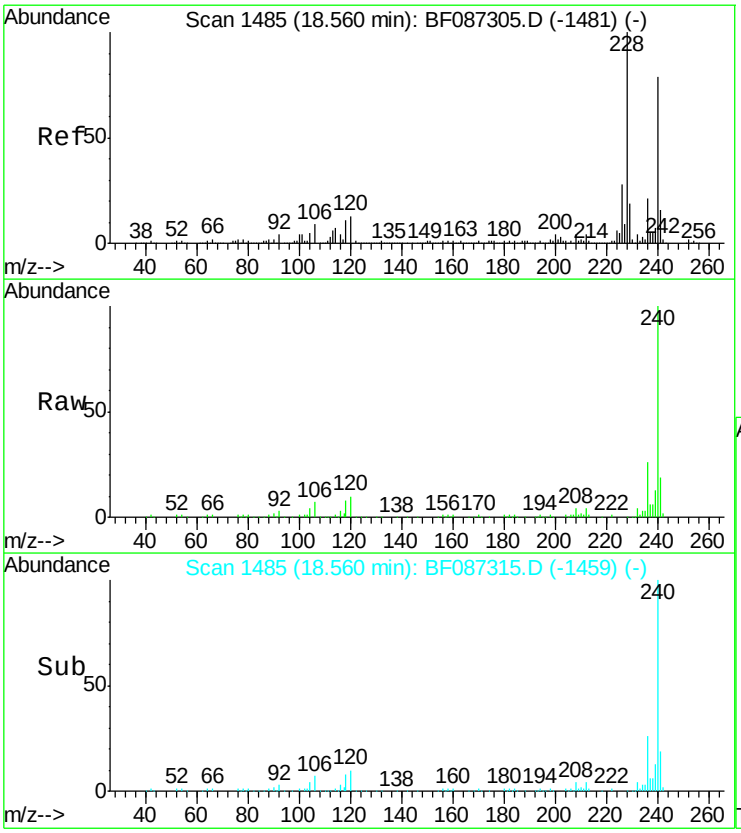

#73
Di-n-butylphthalate
Concen: 0.01 ng
RT: 15.86 min Scan# 1249
Delta R.T. 0.00 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

**Instrument :**
BNA_F
**ClientSampleId :**
PB90822BL

Tgt Ion:149 Resp: 208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 0.0 | 7.6 | 11.4# |
| 104 | 0.0 | 3.8 | 5.6# |

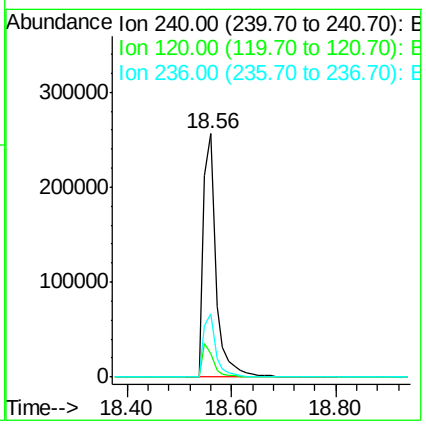


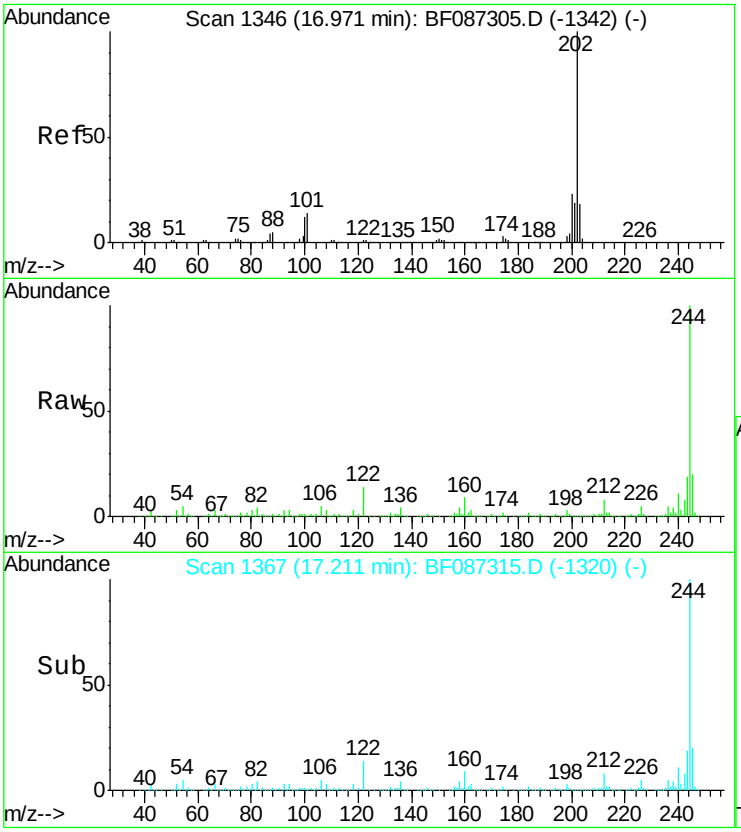




#75
Chrysene-d12
Concen: 20.00 ng
RT: 18.56 min Scan# 1485
Delta R.T. 0.00 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

Tgt Ion:240 Resp: 431216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.5 | 11.2 | 16.8# |
| 236 | 25.9 | 21.2 | 31.8 |



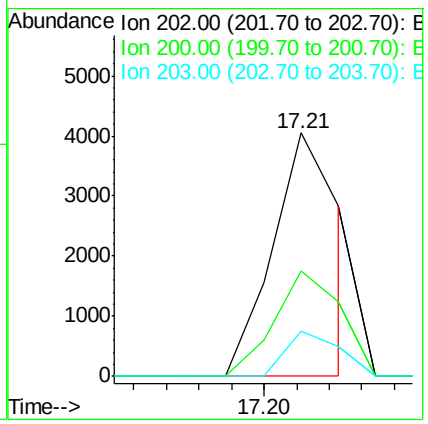


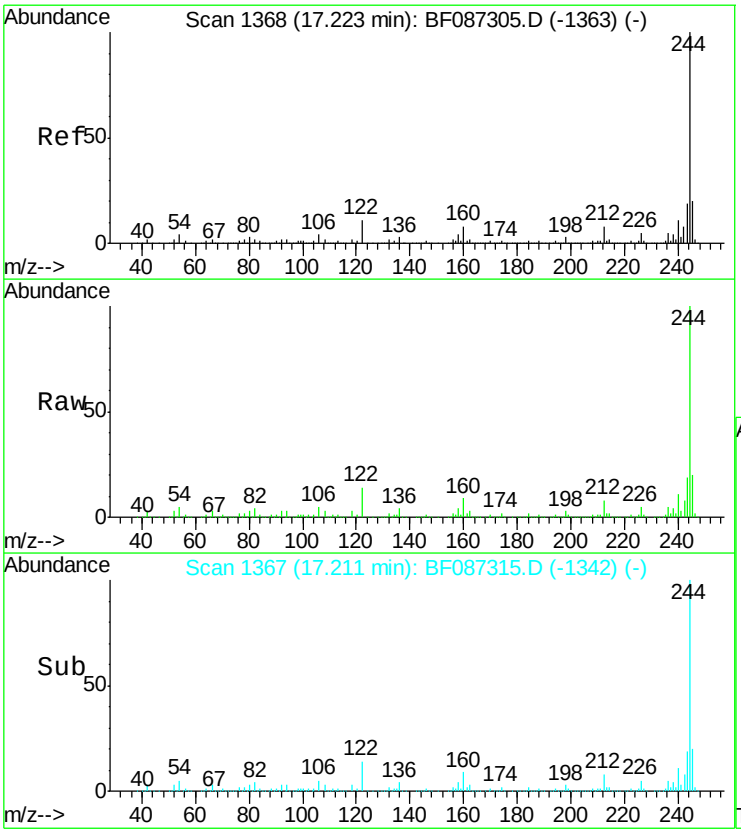

#77
Pyrene
Concen: 0.19 ng
RT: 17.21 min Scan# 1367
Delta R.T. 0.24 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

**Instrument :**
BNA_F
**ClientSampleId :**
PB90822BL

Tgt Ion:202 Resp: 5790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 43.5 | 17.7 | 26.5# |
| 203 | 18.3 | 14.2 | 21.4 |

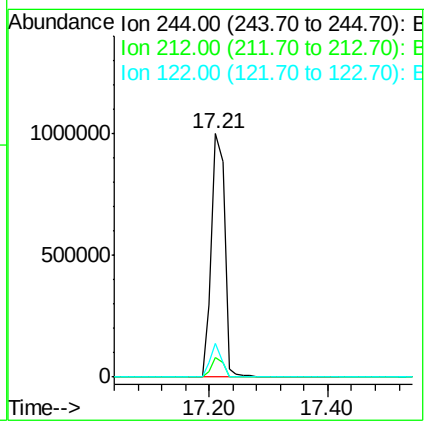


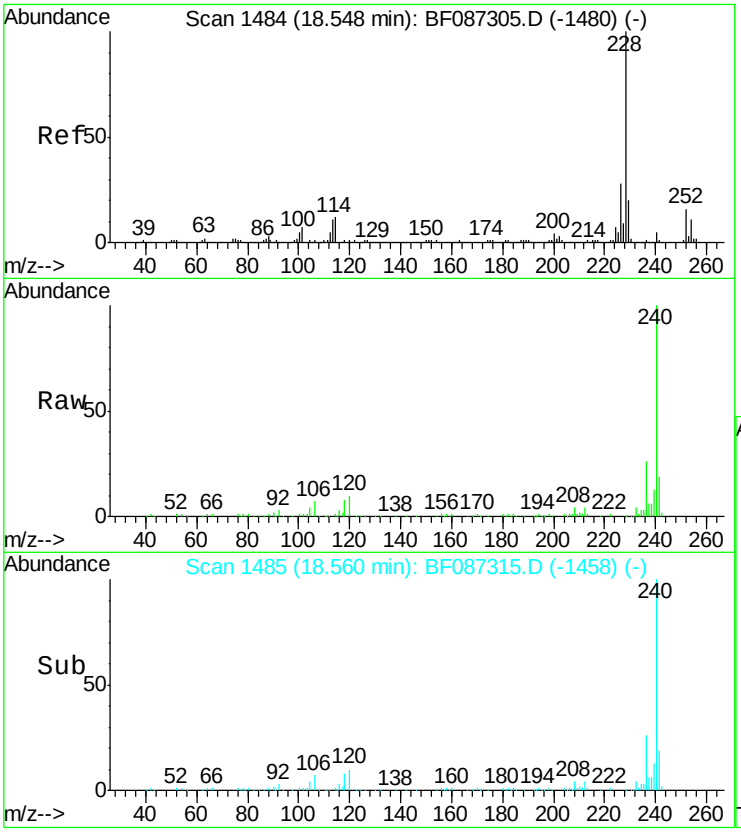




#78
Terphenyl-d14
Concen: 76.53 ng
RT: 17.21 min Scan# 1367
Delta R.T. -0.01 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

Tgt Ion:244 Resp: 1552155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 8.0 | 6.2 | 9.2 |
| 122 | 14.1 | 12.0 | 18.0 |



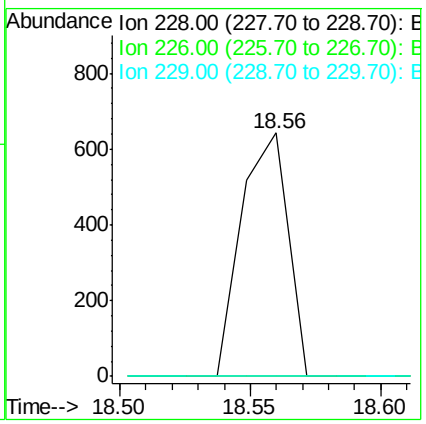


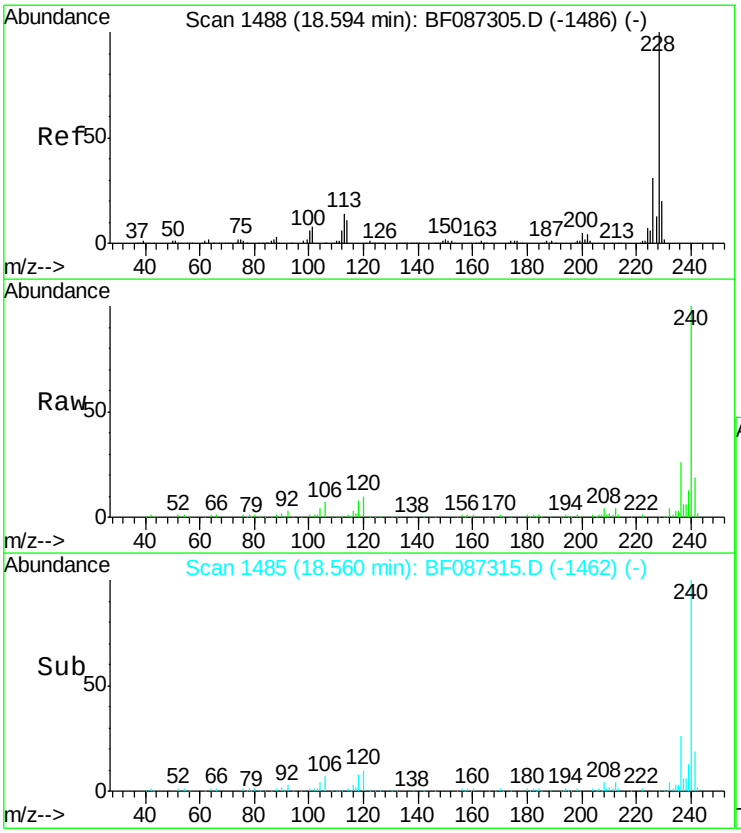

#80
Benzo(a)anthracene
Concen: 0.03 ng
RT: 18.56 min Scan# 1485
Delta R.T. 0.01 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

**Instrument :**
BNA_F
**ClientSampleId :**
PB90822BL

Tgt Ion:228 Resp: 796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 0.0 | 22.5 | 33.7# |
| 229 | 0.0 | 16.6 | 25.0# |

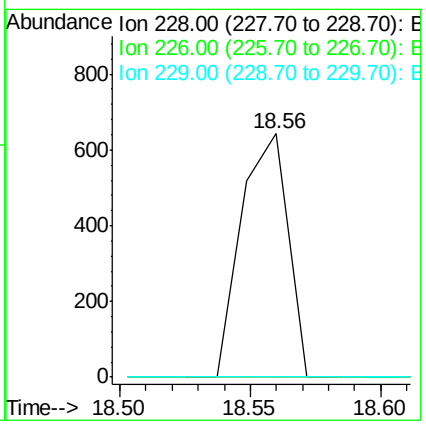


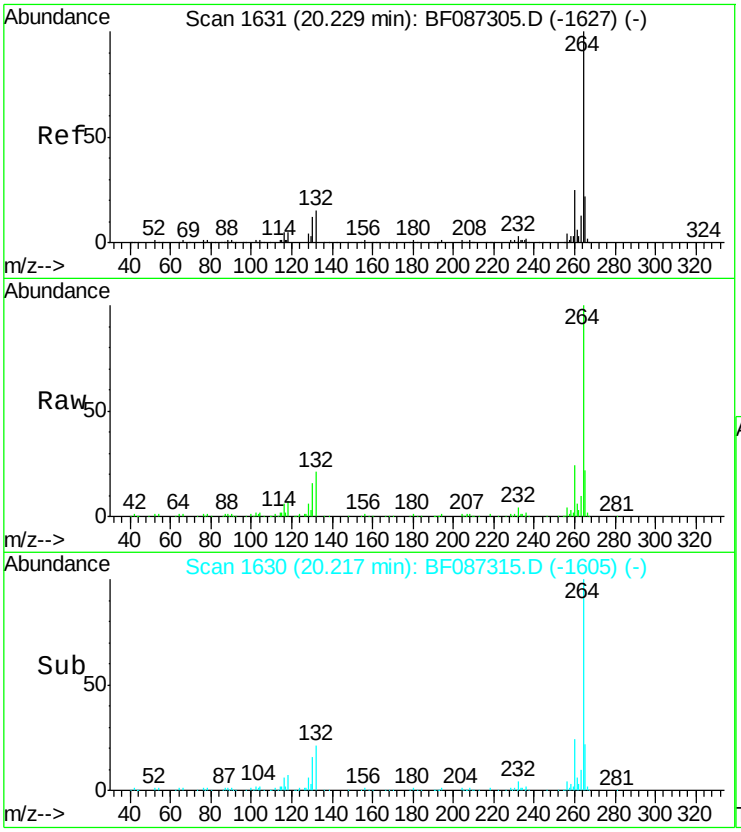




#82
Chrysene
Concen: 0.03 ng
RT: 18.56 min Scan# 1485
Delta R.T. -0.03 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

Tgt Ion:228 Resp: 796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 0.0 | 24.4 | 36.6# |
| 229 | 0.0 | 15.8 | 23.8# |



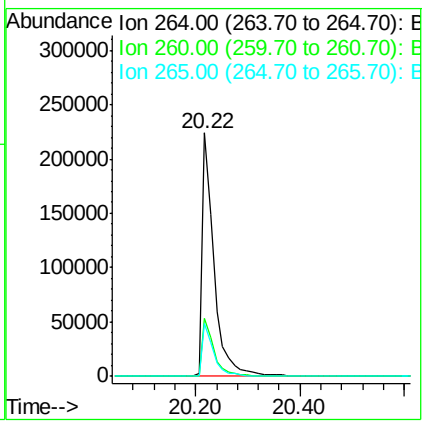


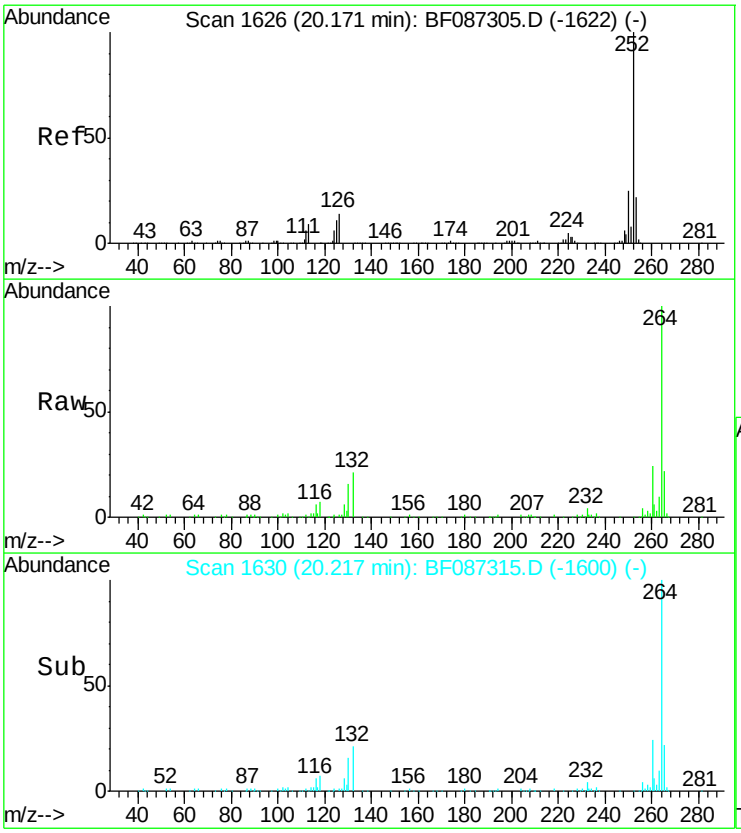

#86
Perylene-d12
Concen: 20.00 ng
RT: 20.22 min Scan# 1630
Delta R.T. -0.01 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

**Instrument :**
BNA_F
**ClientSampleId :**
PB90822BL

Tgt Ion:264 Resp: 353481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.8 | 19.5 | 29.3 |
| 265 | 21.6 | 17.3 | 25.9 |




#89
Benzo(a)pyrene
Concen: 0.05 ng
RT: 20.22 min Scan# 1630
Delta R.T. 0.05 min
Lab File: BF087315.D
Acq: 23 May 2016 23:24

Tgt Ion:252 Resp: 957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 0.0 | 17.2 | 25.8# |
| 125 | 0.0 | 9.0 | 13.6# |