Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091039.D
Acq On : 4 Nov 2016 23:52
Operator : UM/SJ
Sample : H5526-15
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-105-0.5-1.0

**Manual Integrations APPROVED**
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Quant Time: Nov 07 05:40:49 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 04 11:03:12 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.70 | 152 | 187175 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 7.98 | 136 | 703079 | 20.00 | ng | | -0.01 |
| 38) Acenaphthene-d10 | 9.74 | 164 | 340862 | 20.00 | ng | | 0.00 |
| 63) Phenanthrene-d10 | 11.22 | 188 | 458184 | 20.00 | ng | | -0.01 |
| 75) Chrysene-d12 | 13.87 | 240 | 451165 | 20.00 | ng | | 0.01 |
| 86) Perylene-d12 | 15.27 | 264 | 361264 | 20.00 | ng | | 0.02 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.30 | 112 | 989164 | 87.28 | ng | | 0.01 |
| 7) Phenol-d6 | 6.36 | 99 | 1540621 | 100.15 | ng | | 0.01 |
| 23) Nitrobenzene-d5 | 7.28 | 82 | 967394 | 75.06 | ng | | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.53 | 330 | 275677 | 89.46 | ng | | 0.00 |
| 44) 2-Fluorobiphenyl | 9.07 | 172 | 1280541 | 64.68 | ng | | 0.00 |
| 78) Terphenyl-d14 | 12.82 | 244 | 1137917 | 62.94 | ng | | 0.01 |
| **Target Compounds** | | | | | | | Qvalue |
| 48) Acenaphthylene | 9.61 | 152 | 130338 | 4.43 | ng | | 98 |
| 49) Dimethylphthalate | 9.47 | 163 | 433355 | 19.39 | ng | | 99 |
| 70) Phenanthrene | 11.25 | 178 | 526012 | 21.60 | ng | | 98 |
| 71) Anthracene | 11.30 | 178 | 191068 | 7.38 | ng | | 98 |
| 72) Carbazole | 11.46 | 167 | 148782 | 6.38 | ng | | 98 |
| 74) Fluoranthene | 12.44 | 202 | 2105470 | 83.35 | ng | | 94 |
| 77) Pyrene | 12.67 | 202 | 2251931 | 76.22 | ng | | 99 |
| 80) Benzo(a)anthracene | 13.86 | 228 | 1886854 | 73.66 | ng | | 95 |
| 82) Chrysene | 13.91 | 228 | 1421369 | 56.27 | ng | | 97 |
| 85) Indeno(1,2,3-cd)pyrene | 16.60 | 276 | 1208780 | 57.68 | ng | # | 91 |
| 87) Benzo(b)fluoranthene | 14.89 | 252 | 2618884m | 106.88 | ng | | |
| 88) Benzo(k)fluoranthene | 14.91 | 252 | 768803m | 35.77 | ng | | |
| 89) Benzo(a)pyrene | 15.22 | 252 | 1650221 | 77.36 | ng | | 96 |
| 90) Dibenzo(a,h)anthracene | 16.60 | 278 | 304309m | 16.50 | ng | | |
| 91) Benzo(g,h,i)perylene | 17.00 | 276 | 1059248 | 63.52 | ng | | 93 |

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

Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091039.D
Acq On : 4 Nov 2016 23:52
Operator : UM/SJ
Sample : H5526-15
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Nov 07 05:40:49 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 04 11:03:12 2016
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SB-105-0.5-1.0

**Manual Integrations APPROVED**
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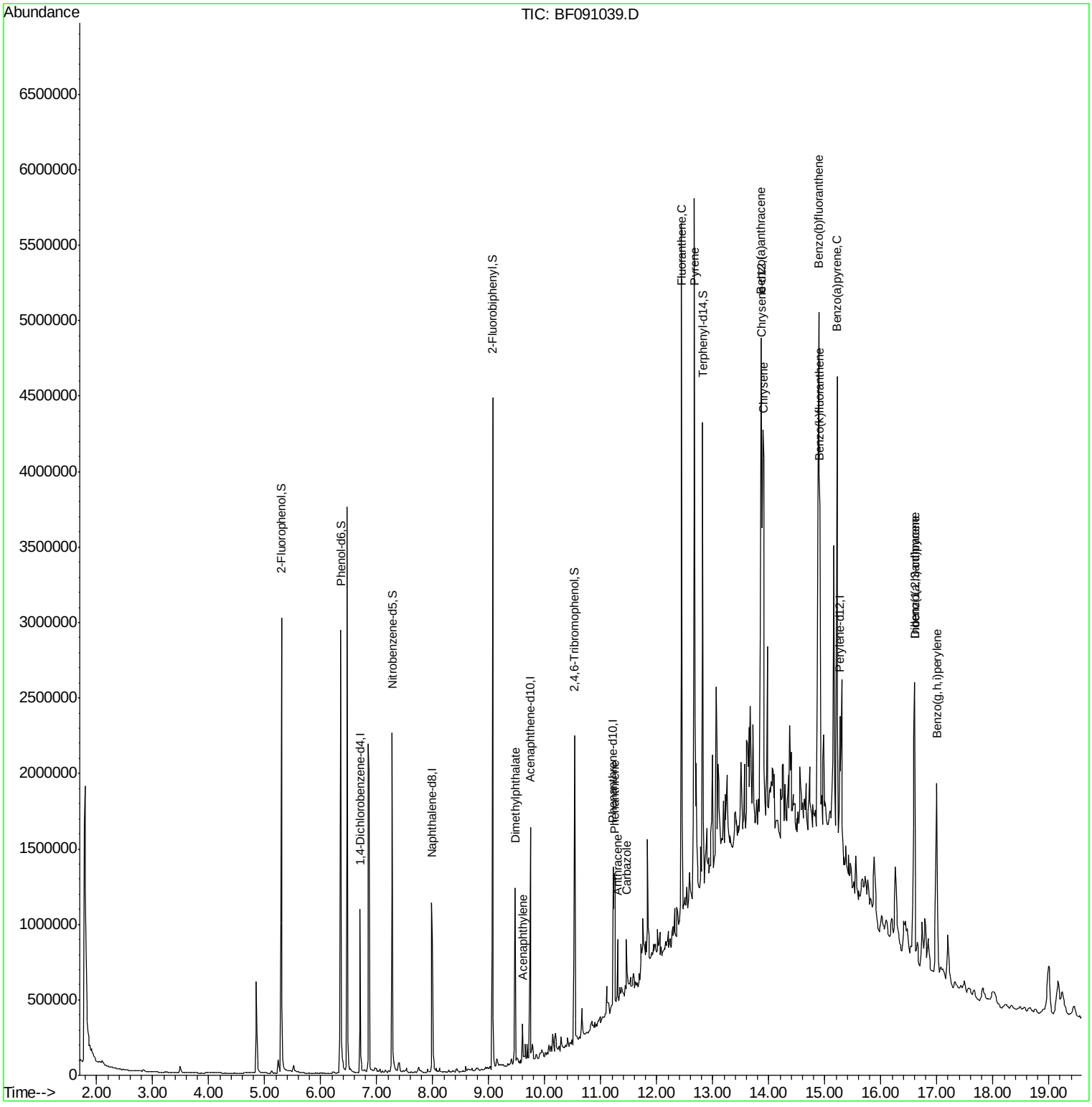
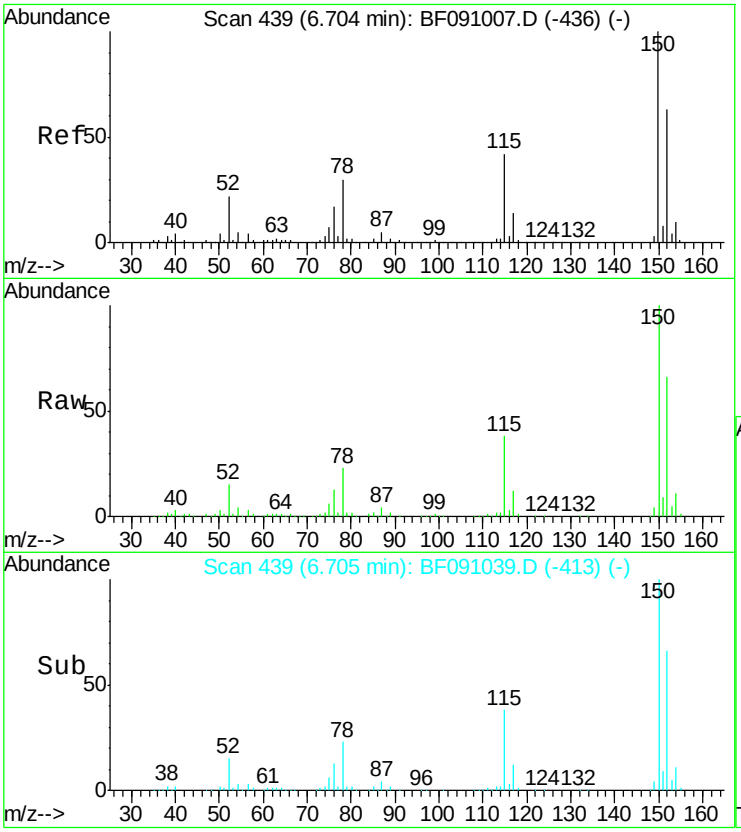
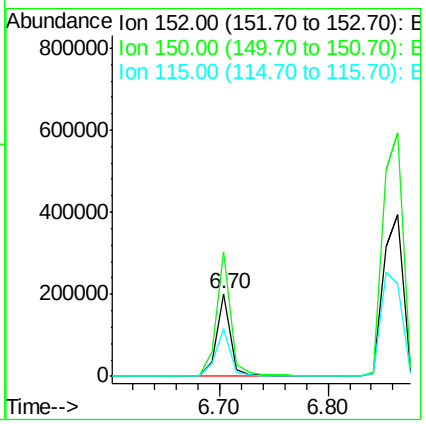





#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.70 min Scan# 439
Delta R.T. 0.00 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:152 Resp: 187175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 151.5 | 126.8 | 190.2 |
| 115 | 57.2 | 53.3 | 79.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SB-105-0.5-1.0

**Manual Integrations APPROVED**
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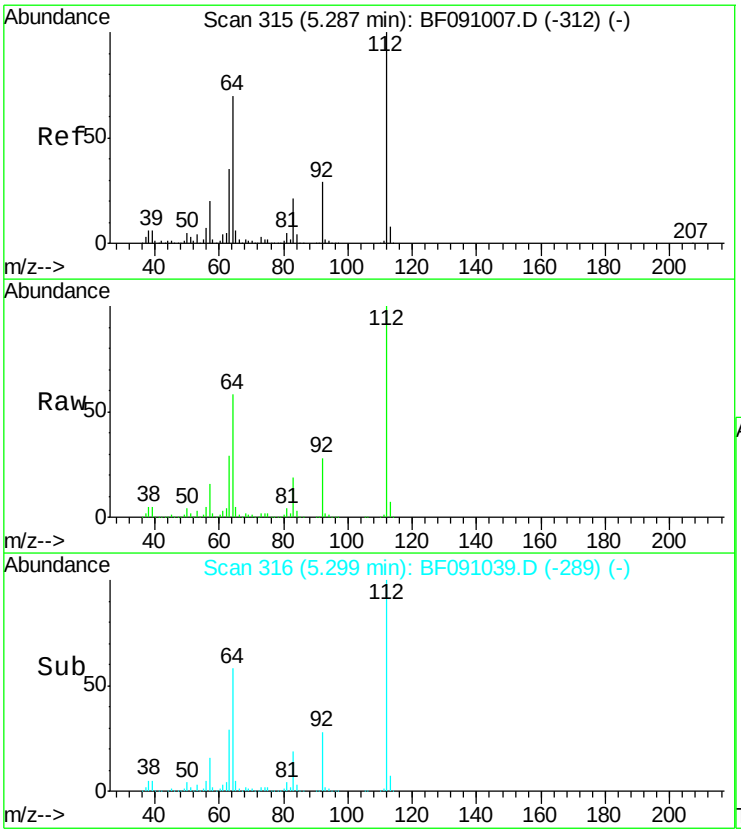
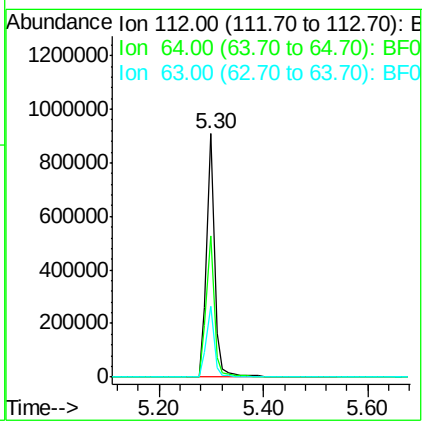
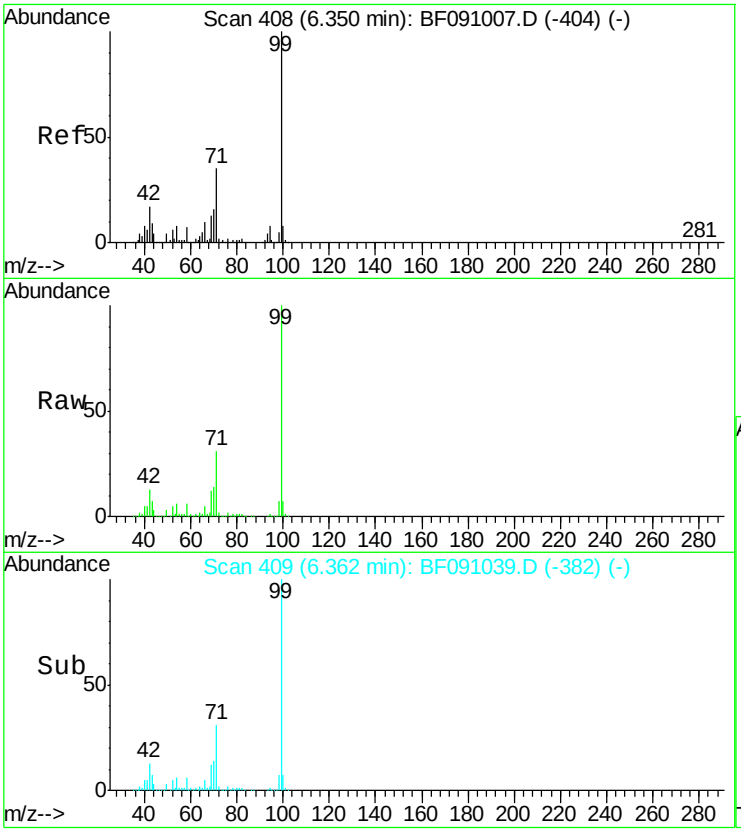



#5
2-Fluorophenol
Concen: 87.28 ng
RT: 5.30 min Scan# 316
Delta R.T. 0.01 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:112 Resp: 989164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 57.8 | 55.8 | 83.6 |
| 63 | 29.0 | 28.0 | 42.0 |

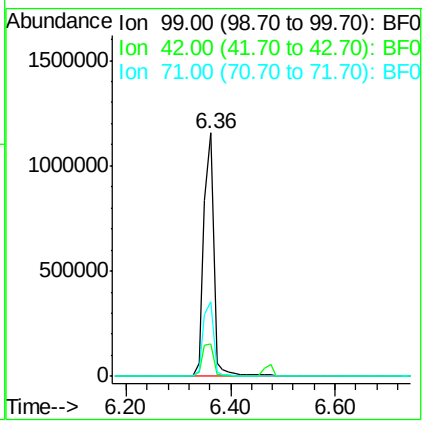





#7
Phenol-d6
Concen: 100.15 ng
RT: 6.36 min Scan# 409
Delta R.T. 0.01 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion: 99 Resp: 1540621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 13.4 | 13.9 | 20.9# |
| 71 | 30.7 | 27.8 | 41.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SB-105-0.5-1.0

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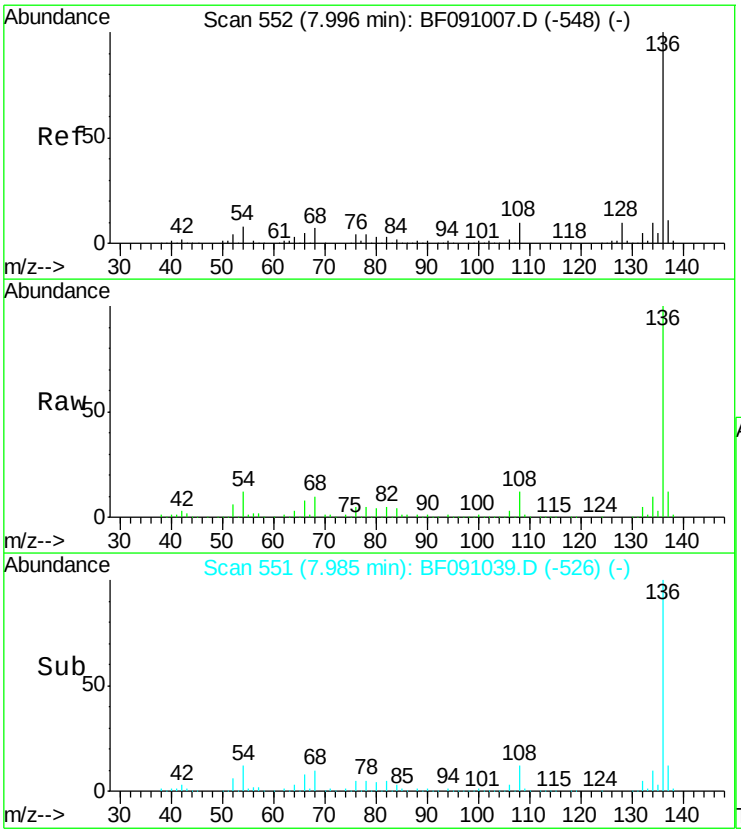
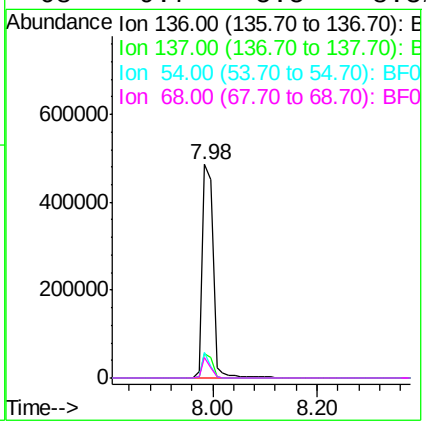
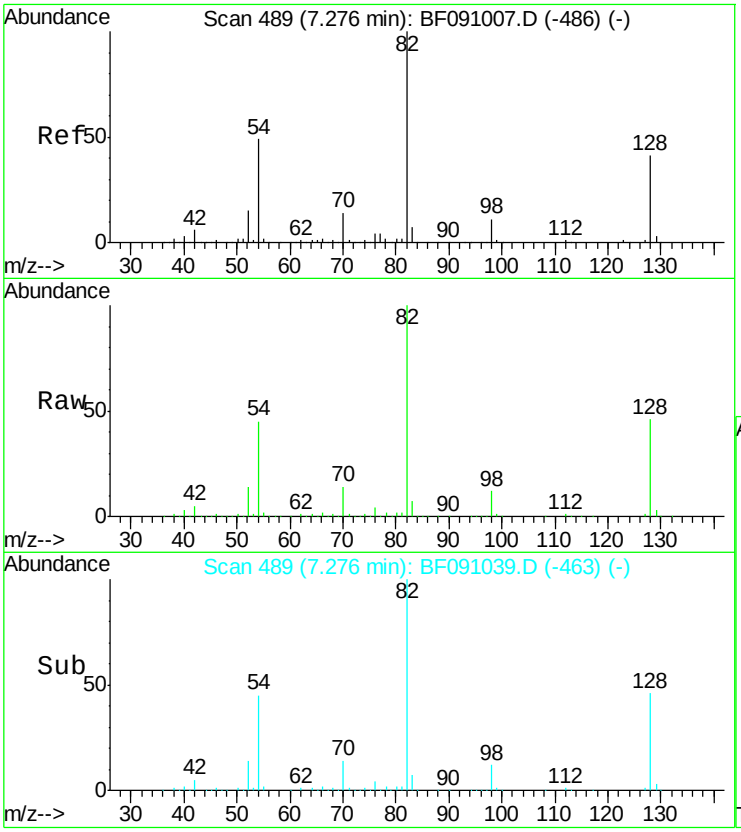



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.98 min Scan# 551
Delta R.T. -0.01 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:136 Resp: 703079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.5 | 8.9 | 13.3 |
| 54 | 11.7 | 6.2 | 9.2# |
| 68 | 9.7 | 5.5 | 8.3# |

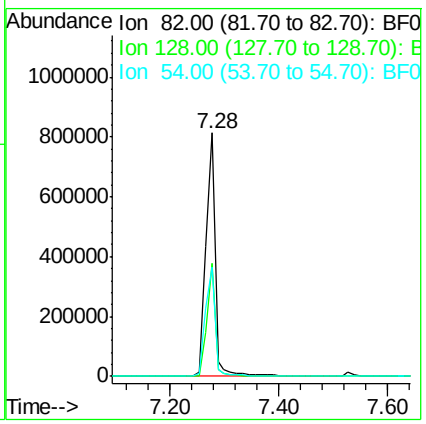





#23
Nitrobenzene-d5
Concen: 75.06 ng
RT: 7.28 min Scan# 489
Delta R.T. 0.00 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion: 82 Resp: 967394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 46.5 | 32.4 | 48.6 |
| 54 | 44.8 | 39.2 | 58.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SB-105-0.5-1.0

**Manual Integrations APPROVED**
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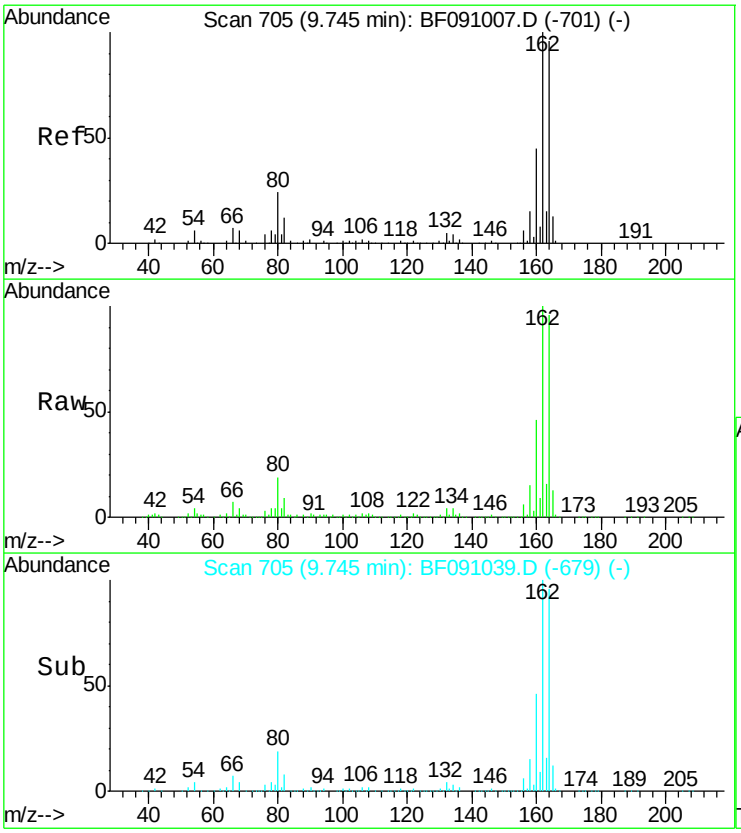
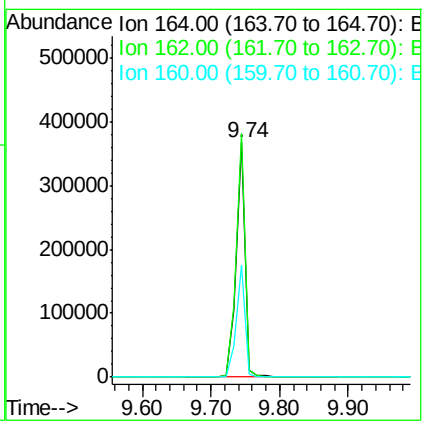
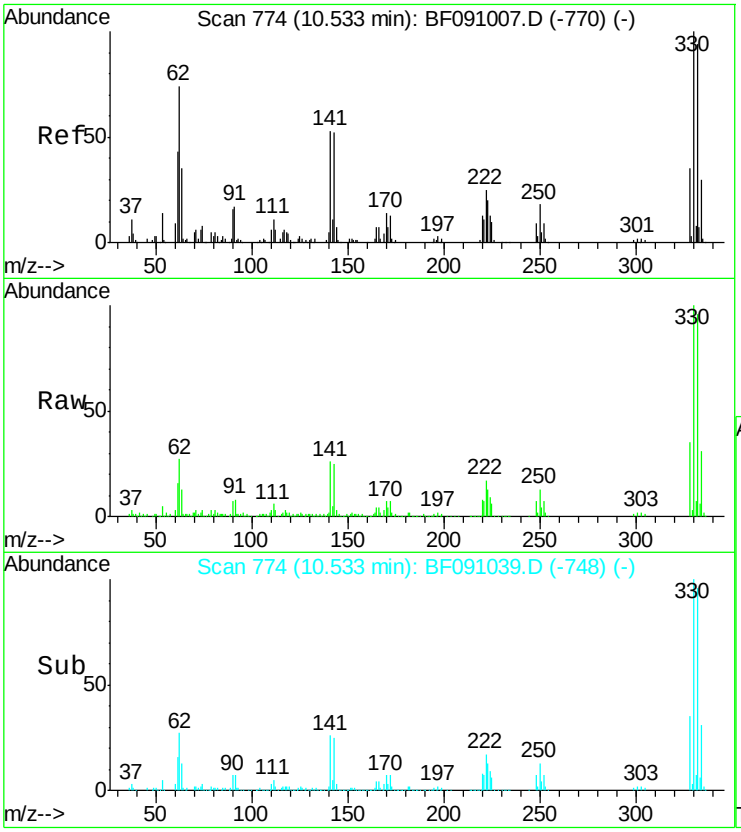



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.74 min Scan# 705
Delta R.T. 0.00 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:164 Resp: 340862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.8 | 83.6 | 125.4 |
| 160 | 47.8 | 37.9 | 56.9 |

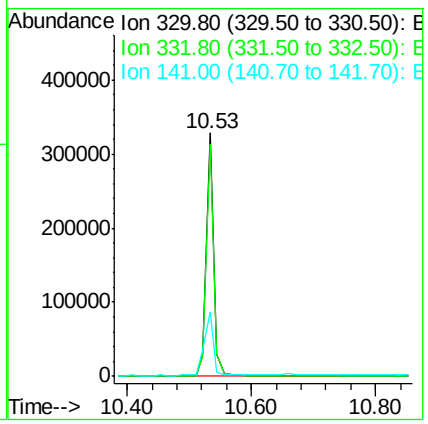





#41
2,4,6-Tribromophenol
Concen: 89.46 ng
RT: 10.53 min Scan# 774
Delta R.T. 0.00 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:330 Resp: 275677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.6 | 75.9 | 113.9 |
| 141 | 32.9 | 36.1 | 54.1# |




**Instrument :**
BNA_F
**ClientSampleId :**
SB-105-0.5-1.0

**Manual Integrations APPROVED**
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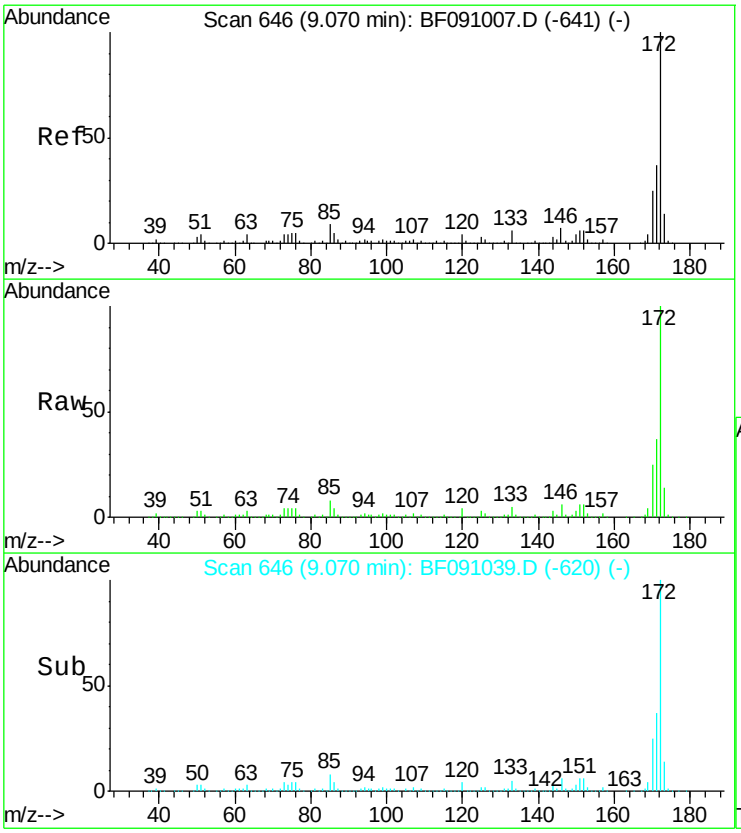
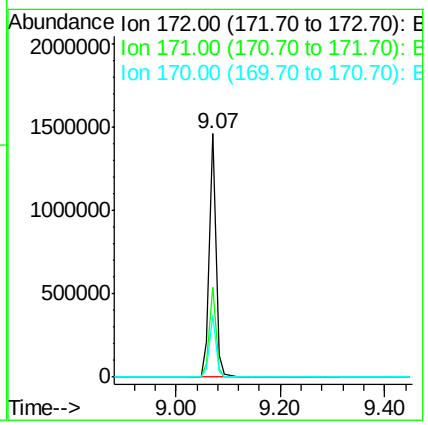
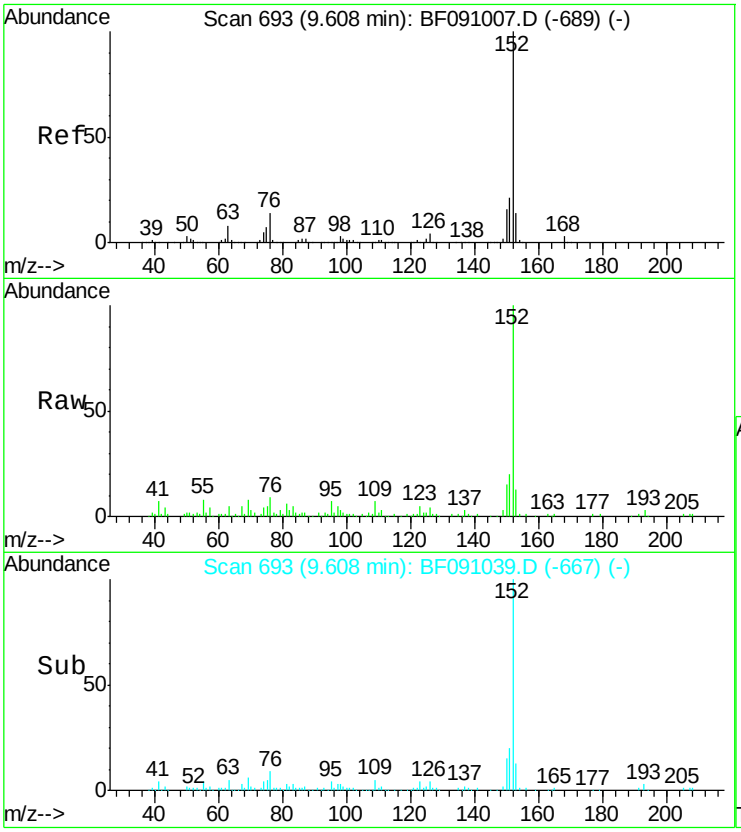



#44
2-Fluorobiphenyl
Concen: 64.68 ng
RT: 9.07 min Scan# 646
Delta R.T. 0.00 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:172 Resp: 1280541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.9 | 29.8 | 44.6 |
| 170 | 25.3 | 20.3 | 30.5 |

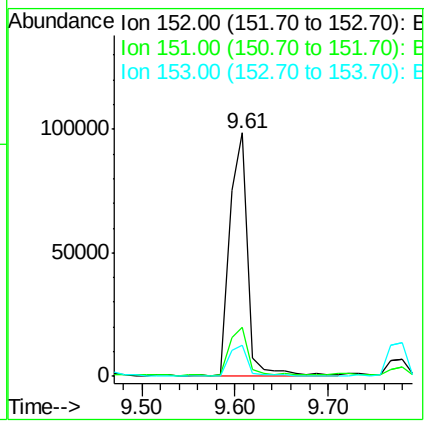





#48
Acenaphthylene
Concen: 4.43 ng
RT: 9.61 min Scan# 693
Delta R.T. 0.00 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:152 Resp: 130338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.2 | 16.7 | 25.1 |
| 153 | 12.6 | 11.1 | 16.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SB-105-0.5-1.0

**Manual Integrations APPROVED**
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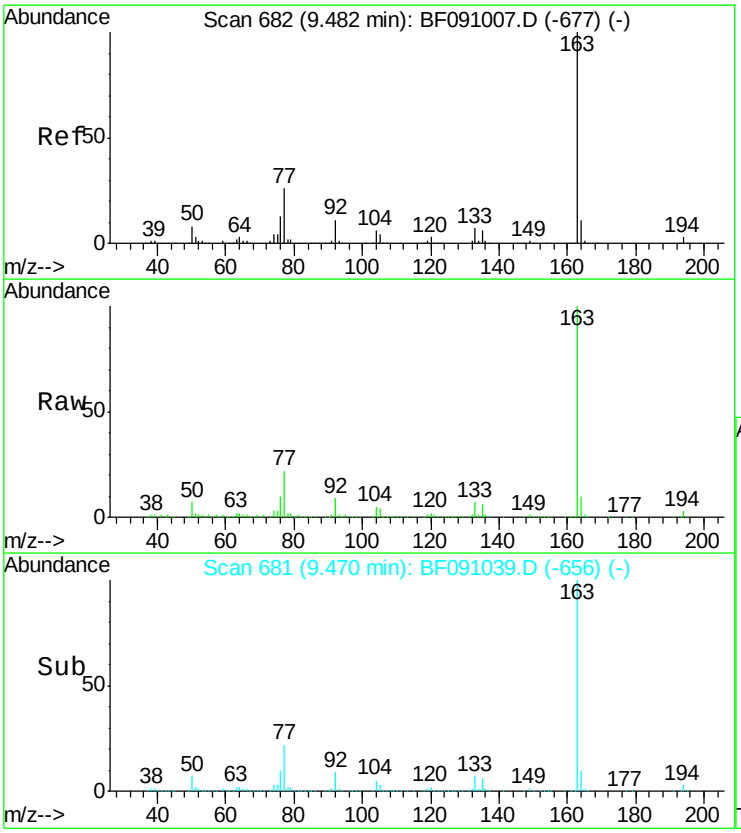
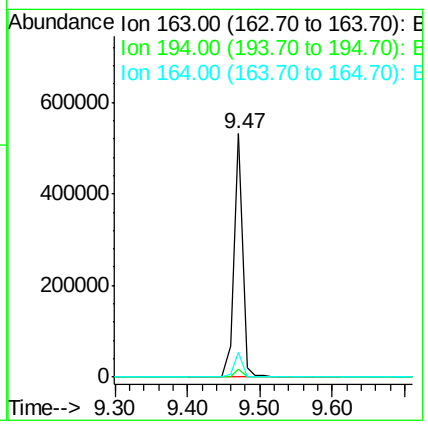
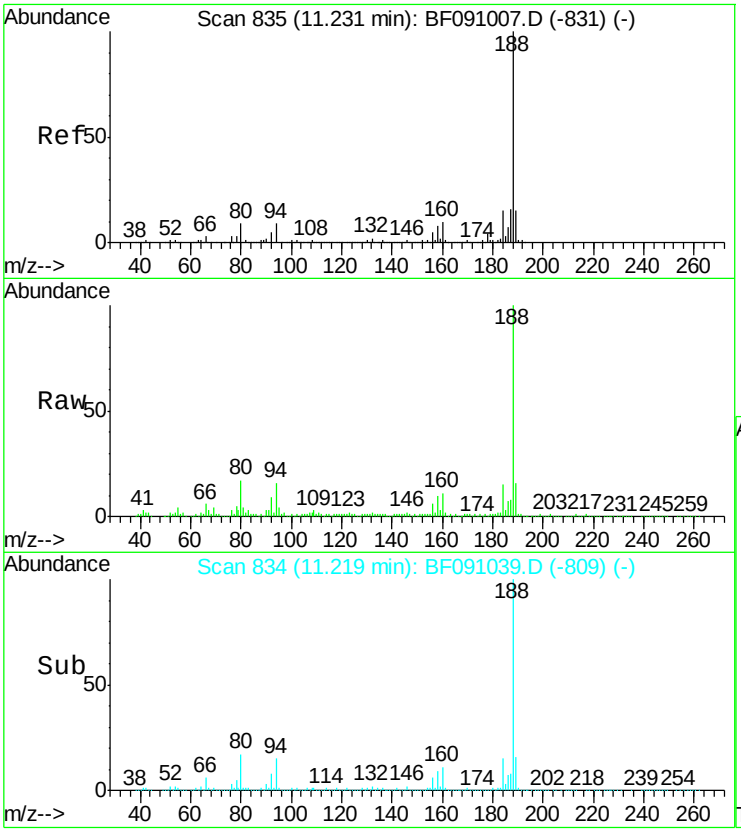



#49
Dimethylphthalate
Concen: 19.39 ng
RT: 9.47 min Scan# 681
Delta R.T. -0.01 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:163 Resp: 433355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.2 | 2.6 | 4.0 |
| 164 | 10.2 | 8.7 | 13.1 |

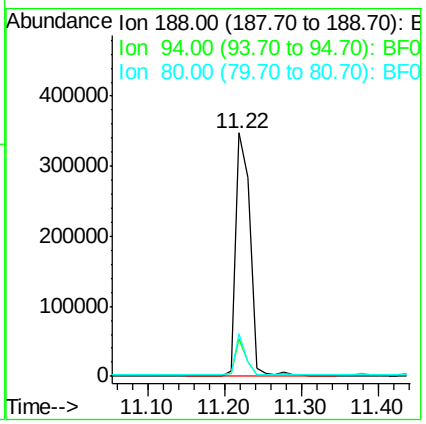





#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.22 min Scan# 834
Delta R.T. -0.01 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:188 Resp: 458184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 15.5 | 7.0 | 10.4# |
| 80 | 17.4 | 7.5 | 11.3# |




**Instrument :**
BNA_F
**ClientSampleId :**
SB-105-0.5-1.0

**Manual Integrations APPROVED**
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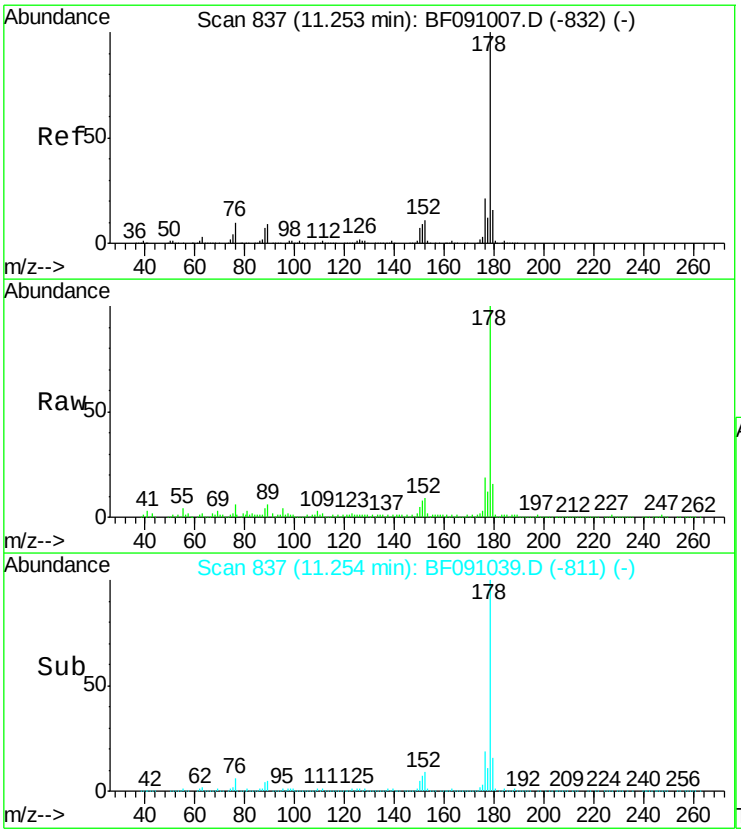
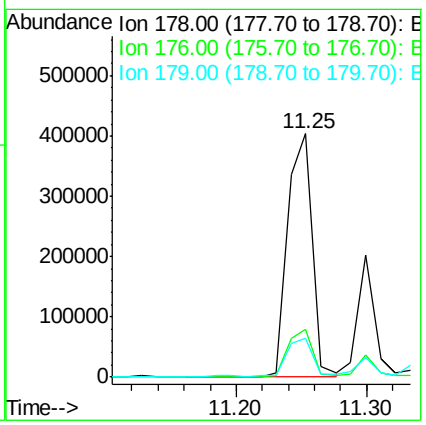
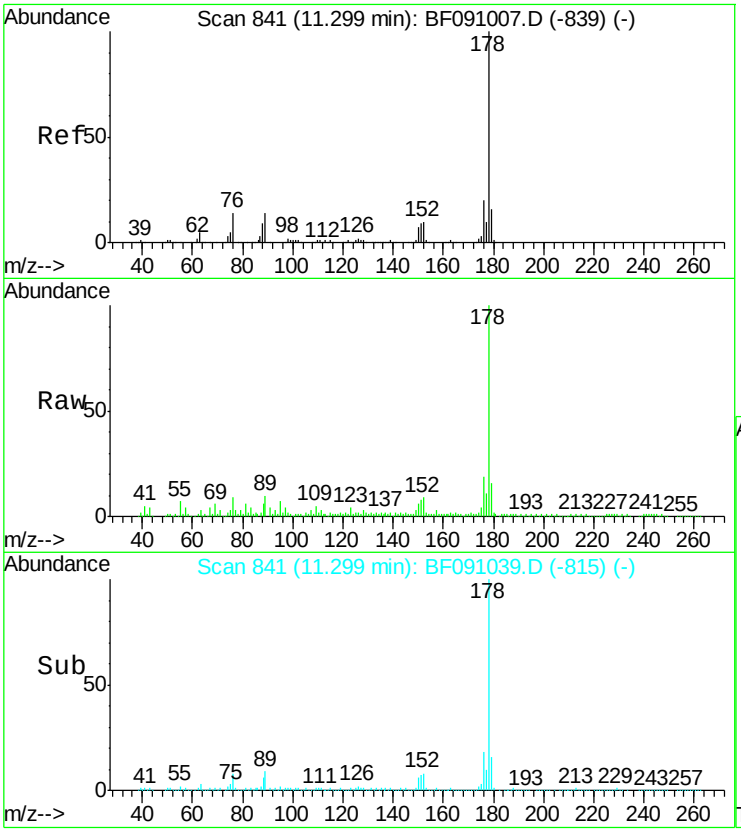



#70
Phenanthrene
Concen: 21.60 ng
RT: 11.25 min Scan# 837
Delta R.T. 0.00 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:178 Resp: 526012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.5 | 16.6 | 25.0 |
| 179 | 15.9 | 12.9 | 19.3 |

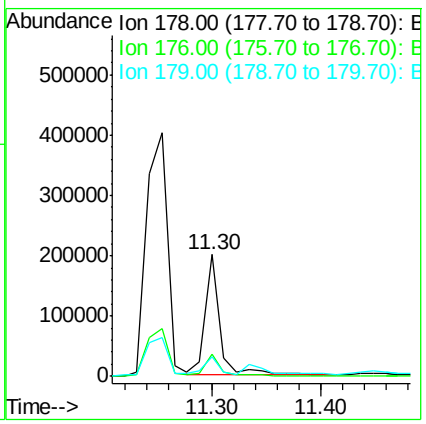





#71
Anthracene
Concen: 7.38 ng
RT: 11.30 min Scan# 841
Delta R.T. 0.00 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:178 Resp: 191068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 16.0 | 24.0 |
| 179 | 16.2 | 13.0 | 19.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SB-105-0.5-1.0

**Manual Integrations APPROVED**
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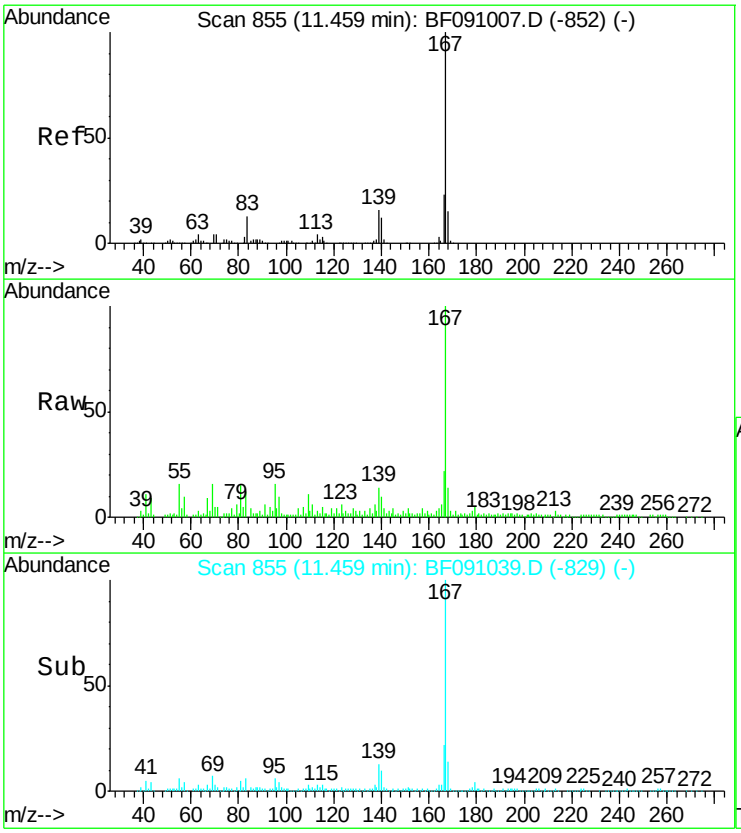
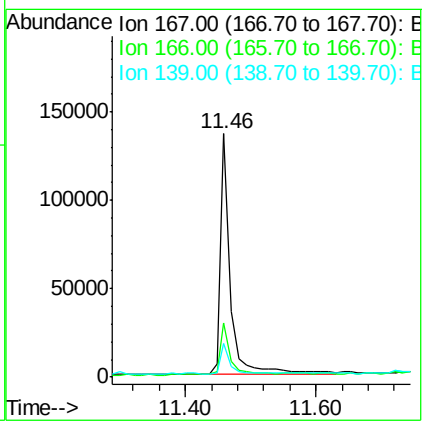
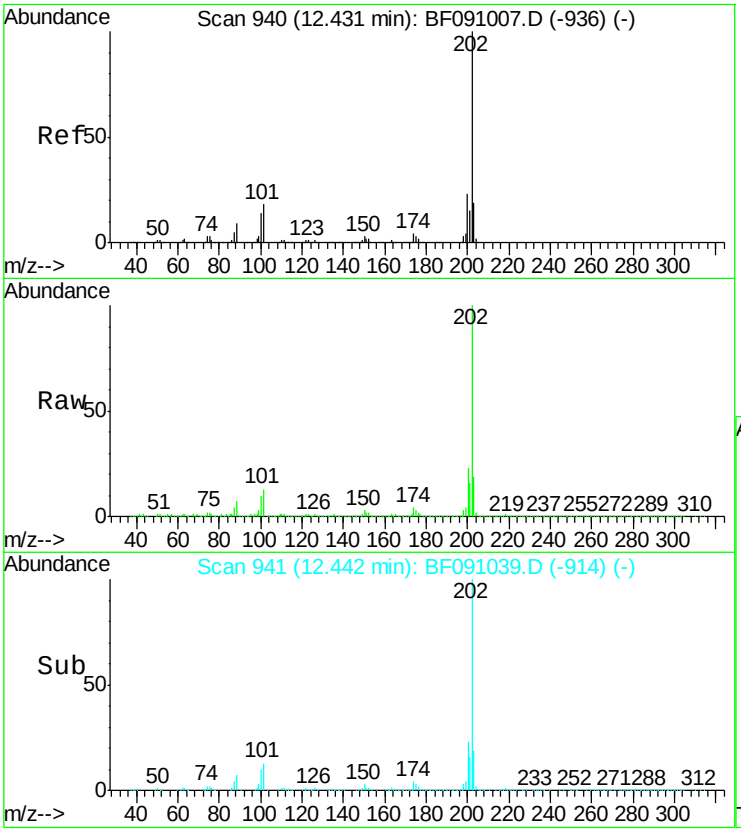



#72
Carbazole
Concen: 6.38 ng
RT: 11.46 min Scan# 855
Delta R.T. 0.00 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:167 Resp: 148782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.5 | 18.0 | 27.0 |
| 139 | 14.0 | 12.6 | 18.8 |

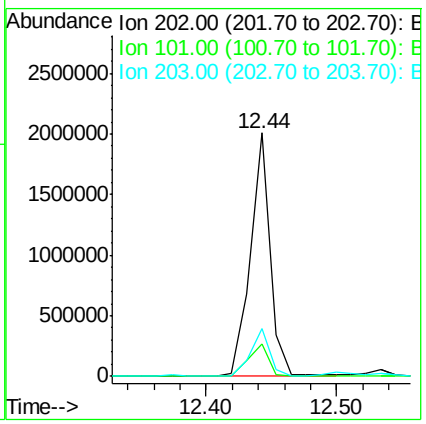





#74
Fluoranthene
Concen: 83.35 ng
RT: 12.44 min Scan# 941
Delta R.T. 0.01 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:202 Resp: 2105470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.5 | 0.0 | 37.6 |
| 203 | 19.4 | 0.0 | 38.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SB-105-0.5-1.0

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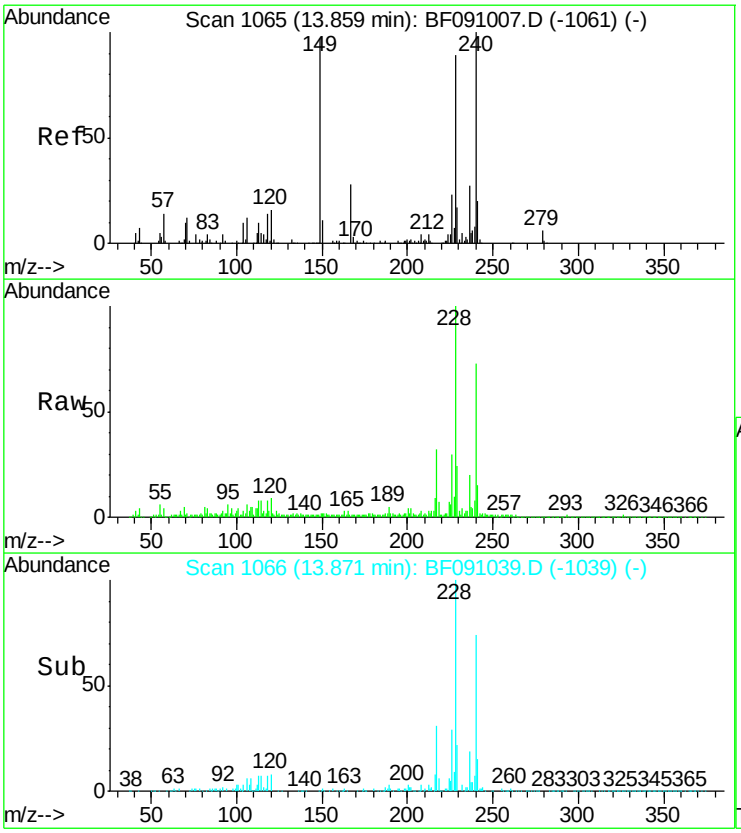
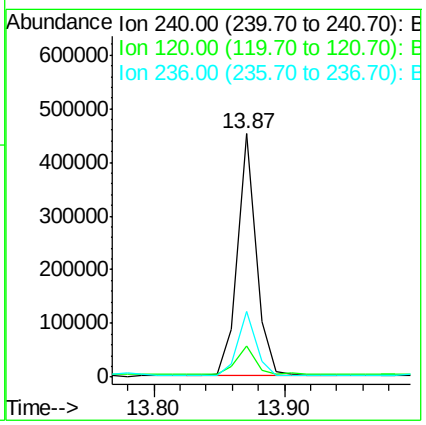
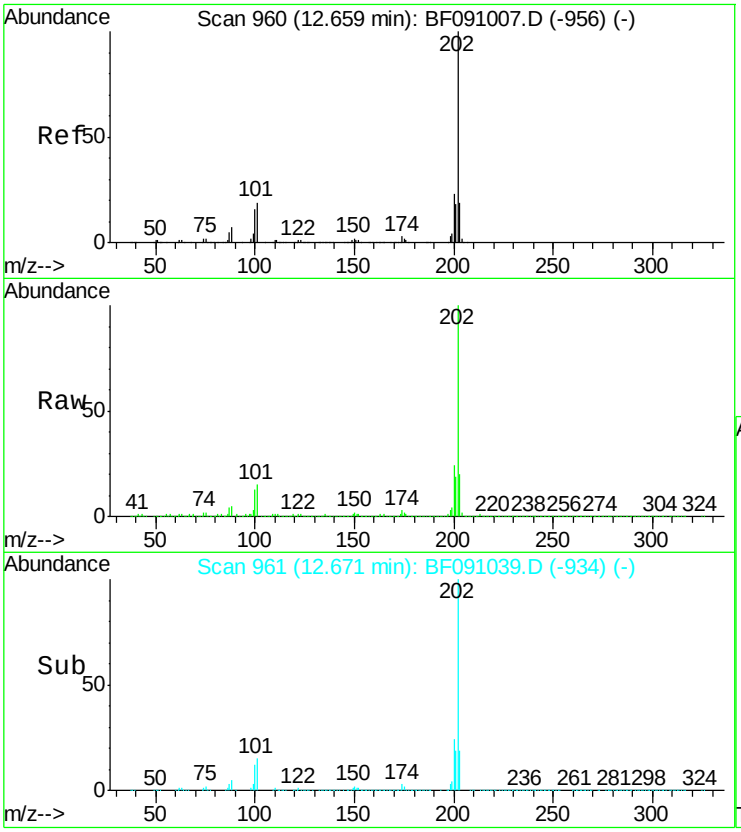



#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.87 min Scan# 1066
Delta R.T. 0.01 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:240 Resp: 451165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.6 | 12.9 | 19.3# |
| 236 | 27.1 | 21.9 | 32.9 |

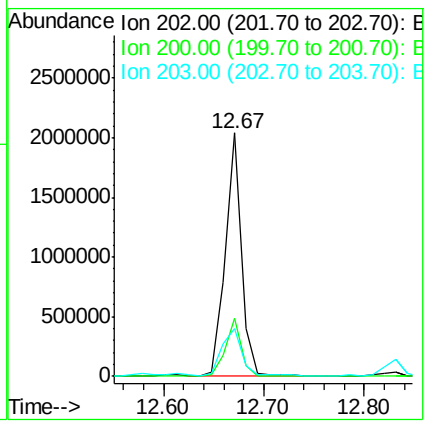





#77
Pyrene
Concen: 76.22 ng
RT: 12.67 min Scan# 961
Delta R.T. 0.01 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:202 Resp: 2251931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 23.6 | 18.4 | 27.6 |
| 203 | 19.6 | 15.0 | 22.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SB-105-0.5-1.0

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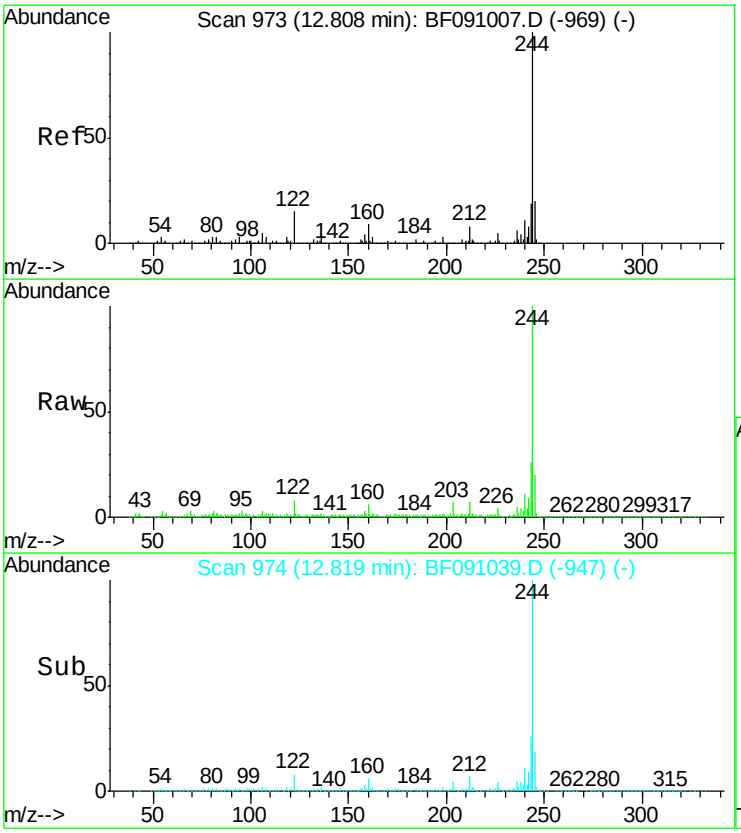
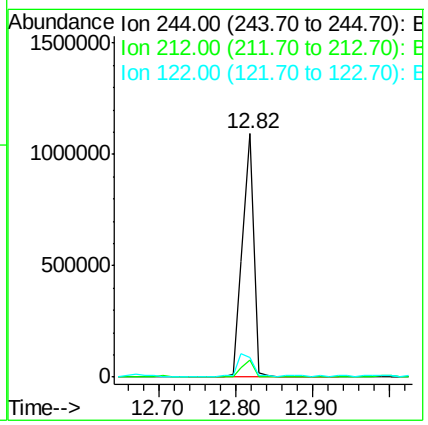
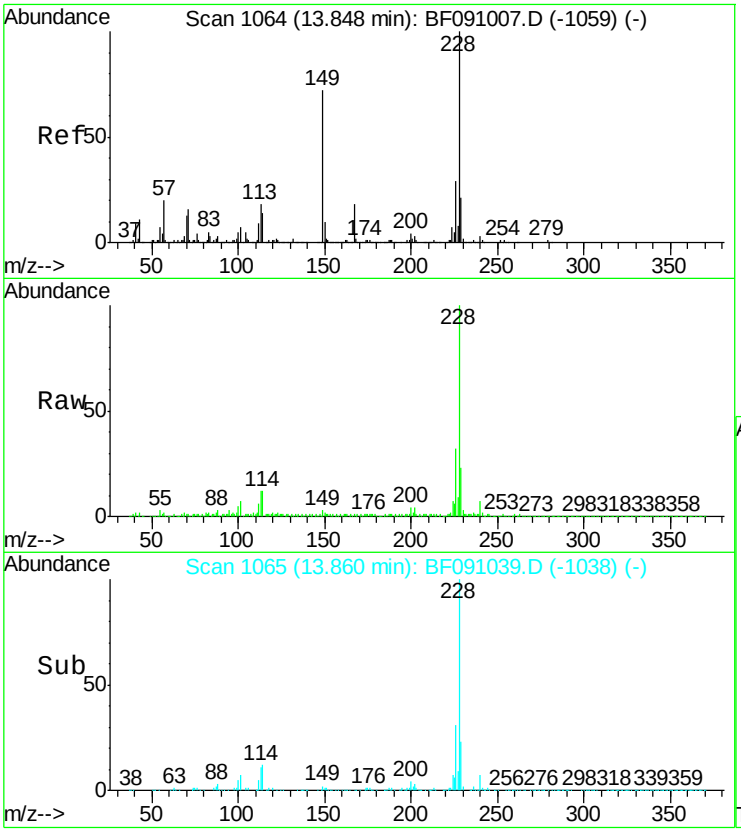



#78
Terphenyl-d14
Concen: 62.94 ng
RT: 12.82 min Scan# 974
Delta R.T. 0.01 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:244 Resp: 1137917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.8 | 6.4 | 9.6 |
| 122 | 8.1 | 12.3 | 18.5# |

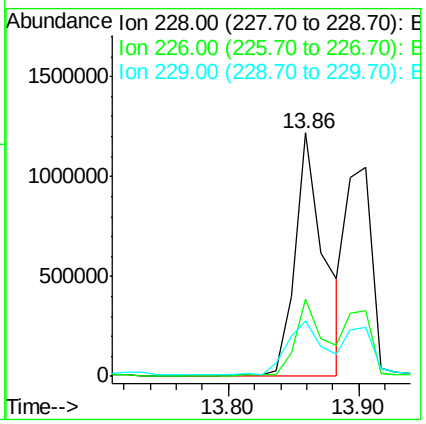





#80
Benzo(a)anthracene
Concen: 73.66 ng
RT: 13.86 min Scan# 1065
Delta R.T. 0.01 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:228 Resp: 1886854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.5 | 23.0 | 34.6 |
| 229 | 22.9 | 16.6 | 24.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SB-105-0.5-1.0

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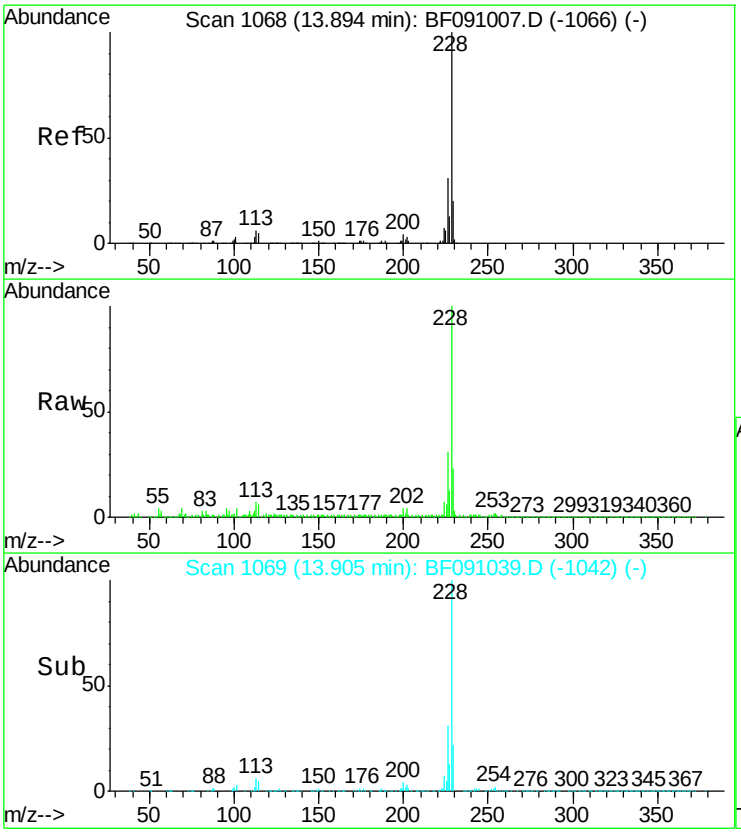
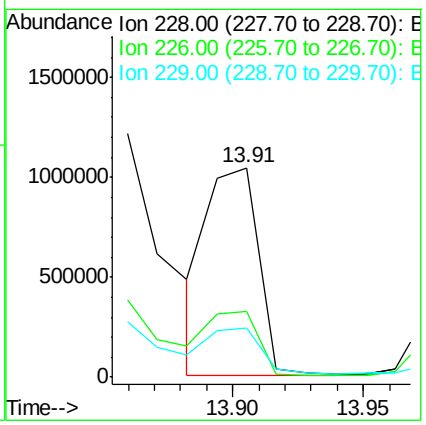
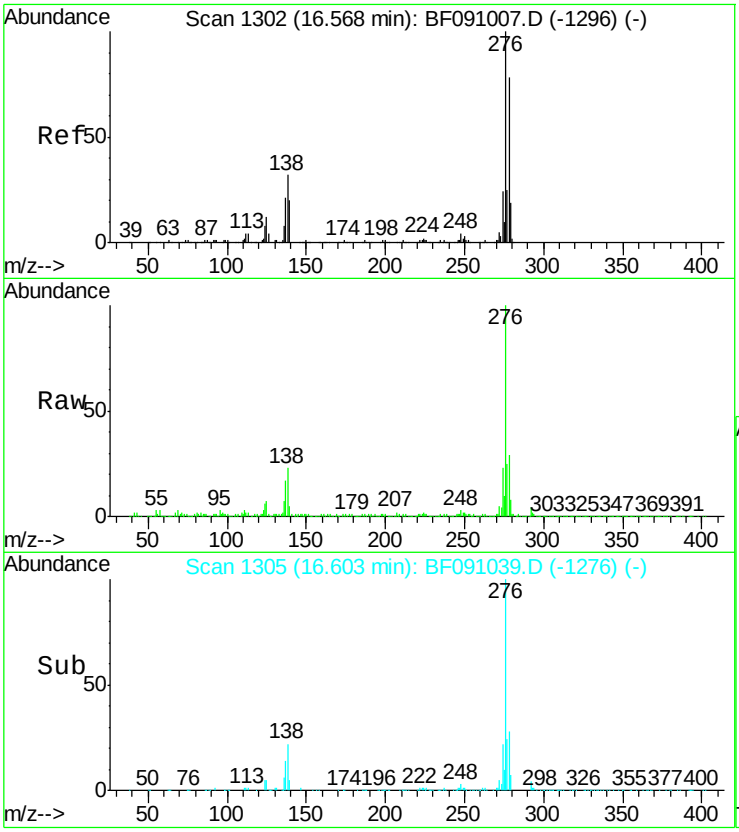



#82
Chrysene
Concen: 56.27 ng
RT: 13.91 min Scan# 1069
Delta R.T. 0.01 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:228 Resp: 1421369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.4 | 24.9 | 37.3 |
| 229 | 23.4 | 15.9 | 23.9 |

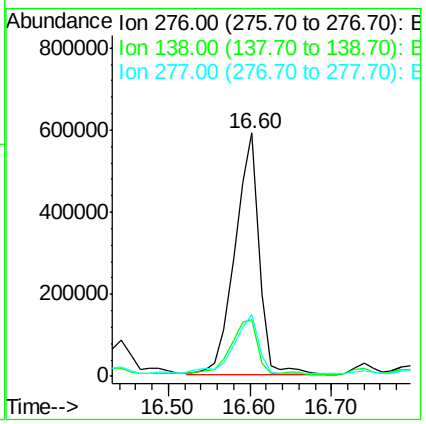





#85
Indeno(1,2,3-cd)pyrene
Concen: 57.68 ng
RT: 16.60 min Scan# 1305
Delta R.T. 0.03 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:276 Resp: 1208780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.2 | 26.0 | 39.0# |
| 277 | 25.6 | 20.1 | 30.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SB-105-0.5-1.0

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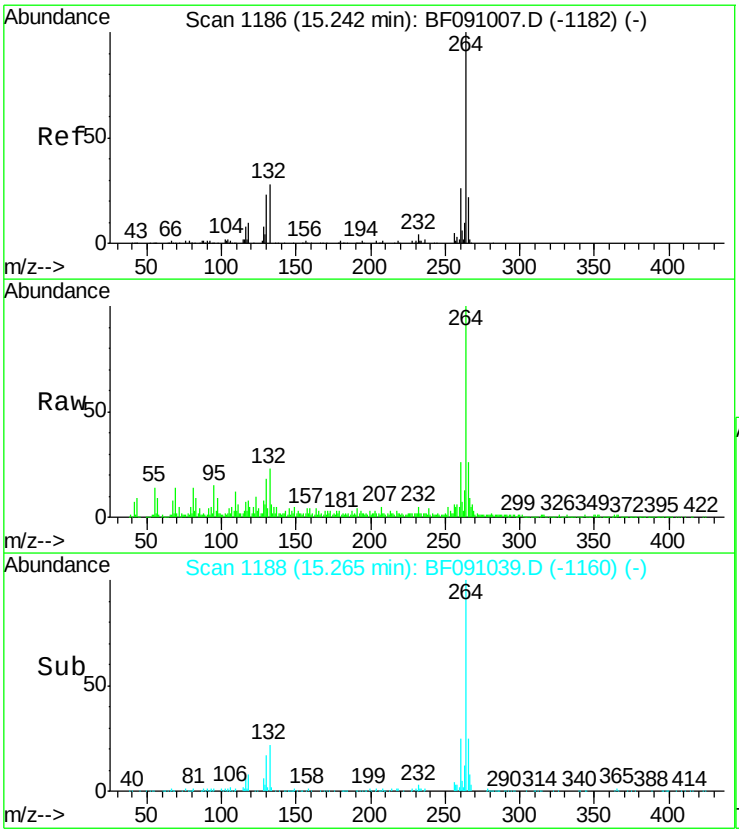
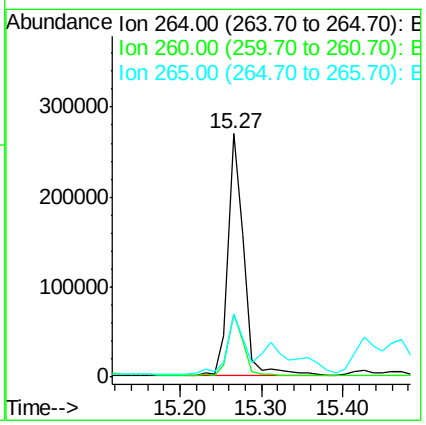
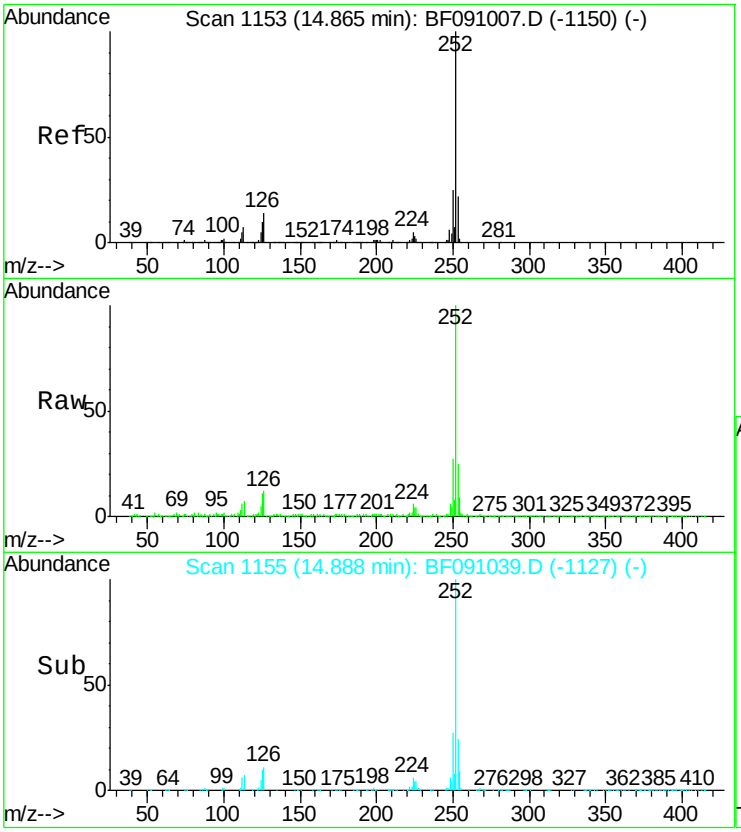



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.27 min Scan# 1188
Delta R.T. 0.02 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:264 Resp: 361264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.0 | 20.6 | 30.8 |
| 265 | 26.1 | 17.8 | 26.8 |

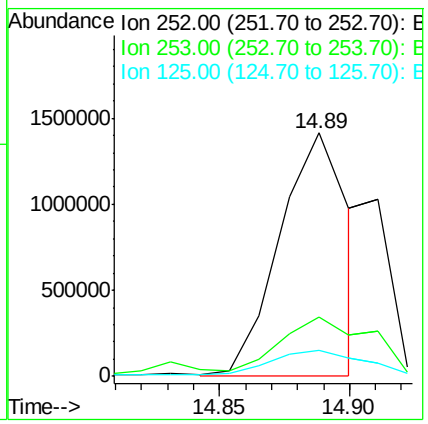





#87
Benzo(b)fluoranthene
Concen: 106.88 ng m
RT: 14.89 min Scan# 1155
Delta R.T. 0.02 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:252 Resp: 2618884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.6 | 18.0 | 27.0 |
| 125 | 10.5 | 8.3 | 12.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SB-105-0.5-1.0

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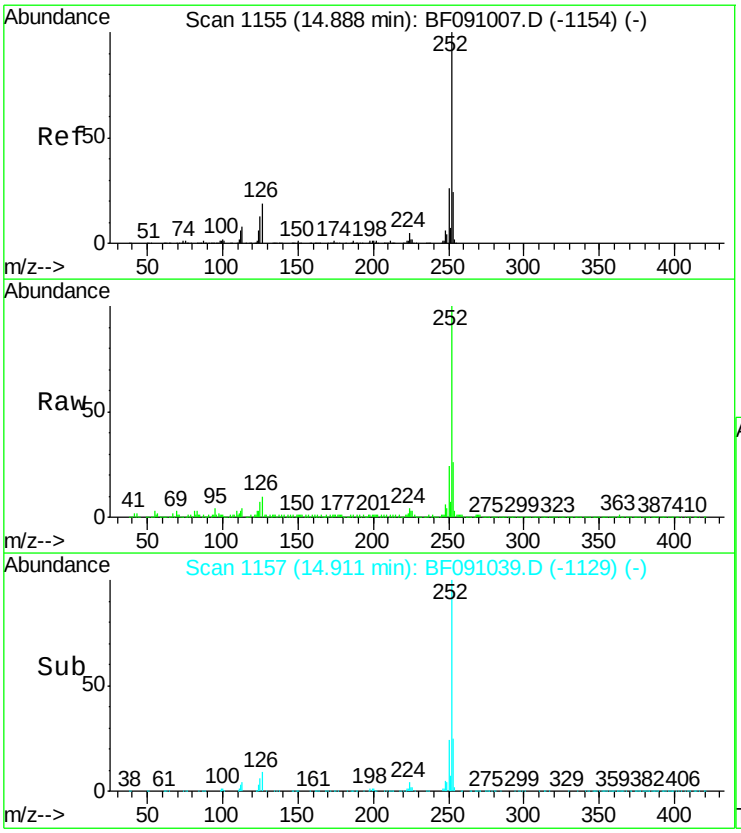
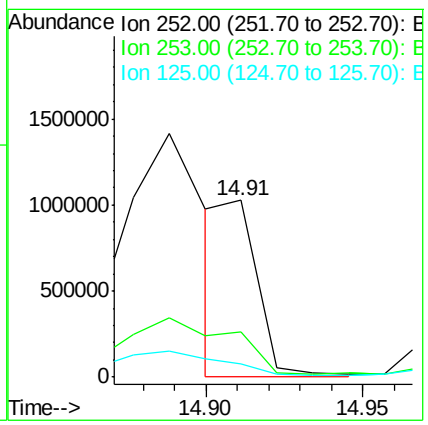
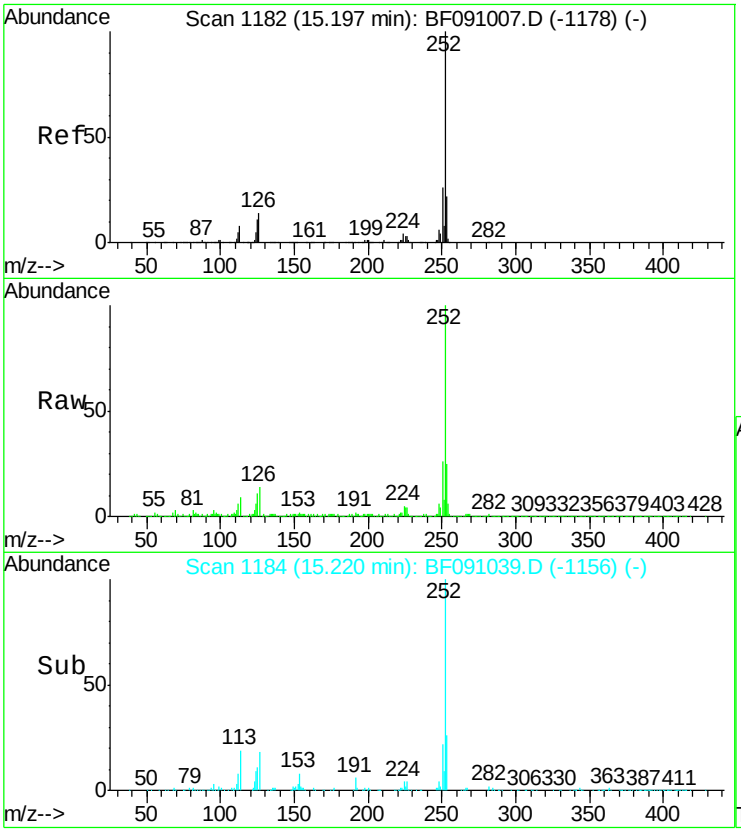



#88
Benzo(k)fluoranthene
Concen: 35.77 ng m
RT: 14.91 min Scan# 1157
Delta R.T. 0.02 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:252 Resp: 768803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.8 | 18.6 | 28.0 |
| 125 | 7.3 | 11.2 | 16.8# |






#89
Benzo(a)pyrene
Concen: 77.36 ng
RT: 15.22 min Scan# 1184
Delta R.T. 0.02 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:252 Resp: 1650221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.7 | 17.8 | 26.8 |
| 125 | 11.2 | 8.6 | 13.0 |

**Instrument :**
BNA_F
**ClientSampleId :**
SB-105-0.5-1.0

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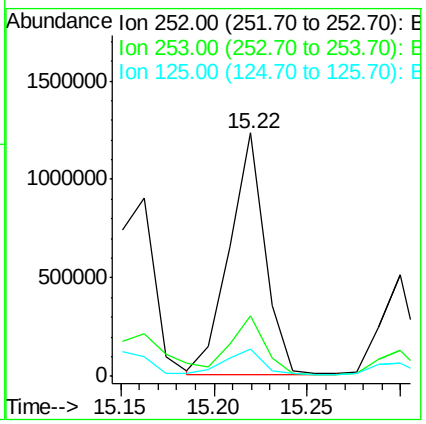
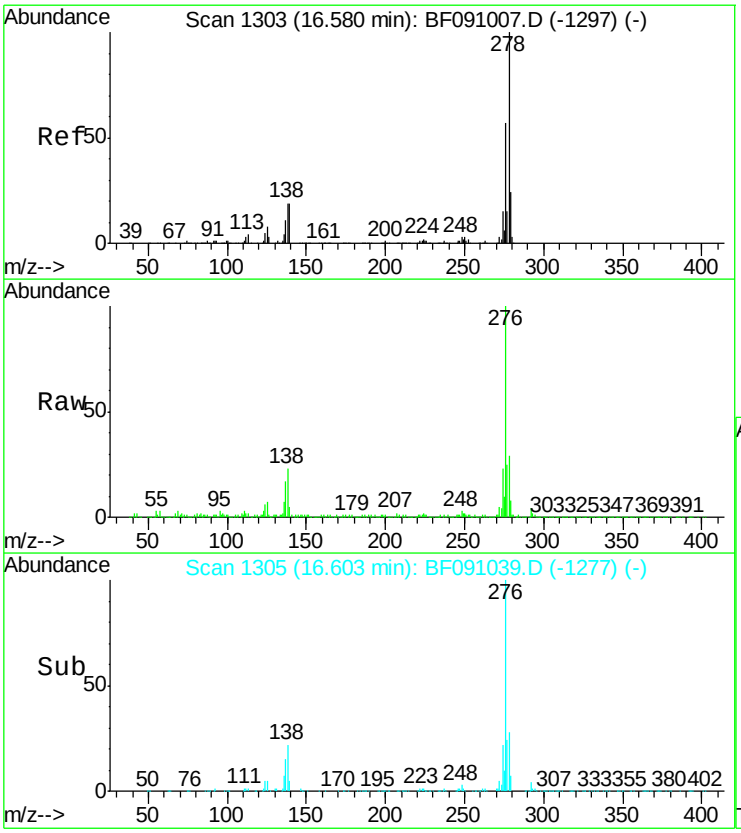
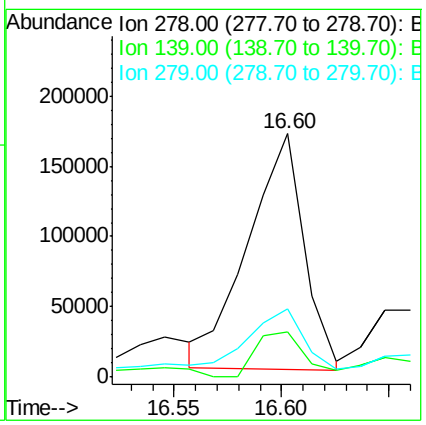


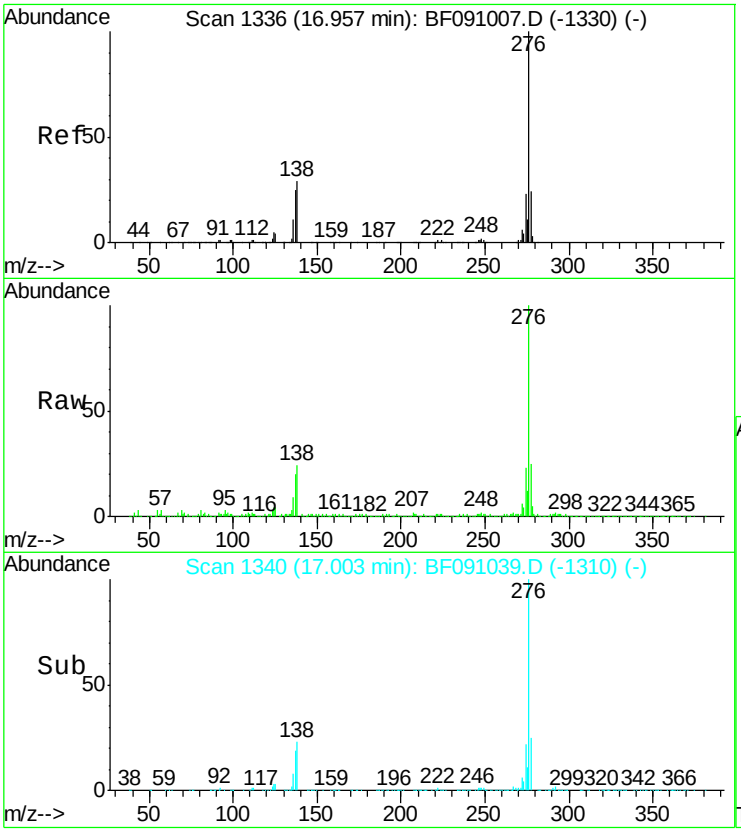




#90
Dibenzo(a,h)anthracene
Concen: 16.50 ng m
RT: 16.60 min Scan# 1305
Delta R.T. 0.02 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:278 Resp: 304309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 18.7 | 15.3 | 22.9 |
| 279 | 28.0 | 19.3 | 28.9 |

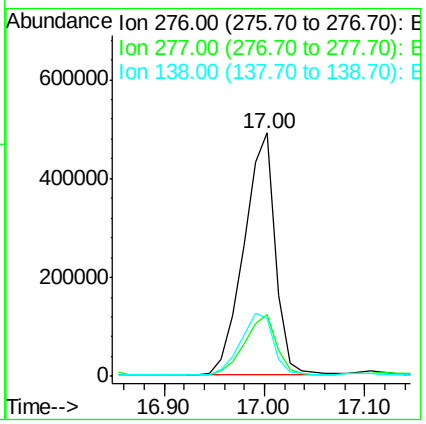





#91
Benzo(g,h,i)perylene
Concen: 63.52 ng
RT: 17.00 min Scan# 1340
Delta R.T. 0.05 min
Lab File: BF091039.D
Acq: 4 Nov 2016 23:52

Tgt Ion:276 Resp: 1059248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.2 | 19.2 | 28.8 |
| 138 | 23.7 | 23.3 | 34.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SB-105-0.5-1.0

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