Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091818\
Data File : BF109108.D
Acq On : 18 Sep 2018 20:56
Operator : JU/SJ
Sample : J4772-01 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
HD-02-091718

**Manual Integrations APPROVED**
Sohil
9/19/2018 4:23:50 PM

Quant Time: Sep 19 05:14:09 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 14 13:26:52 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.72 | 152 | 137994 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.00 | 136 | 499559 | 20.00 | ng | | 0.00 |
| 38) Acenaphthene-d10 | 9.75 | 164 | 212932 | 20.00 | ng | | 0.00 |
| 63) Phenanthrene-d10 | 11.23 | 188 | 350738 | 20.00 | ng | | 0.00 |
| 75) Chrysene-d12 | 13.86 | 240 | 364987 | 20.00 | ng | | 0.00 |
| 86) Perylene-d12 | 15.27 | 264 | 319548 | 20.00 | ng | | 0.01 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.32 | 112 | 191682 | 23.07 | ng | | 0.00 |
| 7) Phenol-d6 | 6.35 | 99 | 246252 | 22.99 | ng | | -0.01 |
| 23) Nitrobenzene-d5 | 7.28 | 82 | 146426 | 16.44 | ng | | -0.01 |
| 41) 2,4,6-Tribromophenol | 10.54 | 330 | 47099 | 20.38 | ng | | 0.00 |
| 44) 2-Fluorobiphenyl | 9.08 | 172 | 270987 | 19.94 | ng | | 0.00 |
| 78) Terphenyl-d14 | 12.81 | 244 | 230752 | 14.99 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 49) Dimethylphthalate | 9.47 | 163 | 37825 | 2.485 | ng | # | 97 |
| 70) Phenanthrene | 11.25 | 178 | 87263 | 5.075 | ng | | 98 |
| 74) Fluoranthene | 12.44 | 202 | 150484m | 8.291 | ng | | |
| 77) Pyrene | 12.67 | 202 | 153779 | 5.672 | ng | | 97 |
| 80) Benzo(a)anthracene | 13.85 | 228 | 78991 | 3.575 | ng | | 98 |
| 82) Chrysene | 13.88 | 228 | 76451 | 3.458 | ng | | 95 |
| 87) Benzo(b)fluoranthene | 14.87 | 252 | 82441m | 4.663 | ng | | |
| 89) Benzo(a)pyrene | 15.20 | 252 | 55174 | 3.514 | ng | # | 90 |

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

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091818\
Data File : BF109108.D
Acq On : 18 Sep 2018 20:56
Operator : JU/SJ
Sample : J4772-01 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 19 05:14:09 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 14 13:26:52 2018
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
HD-02-091718

**Manual Integrations APPROVED**
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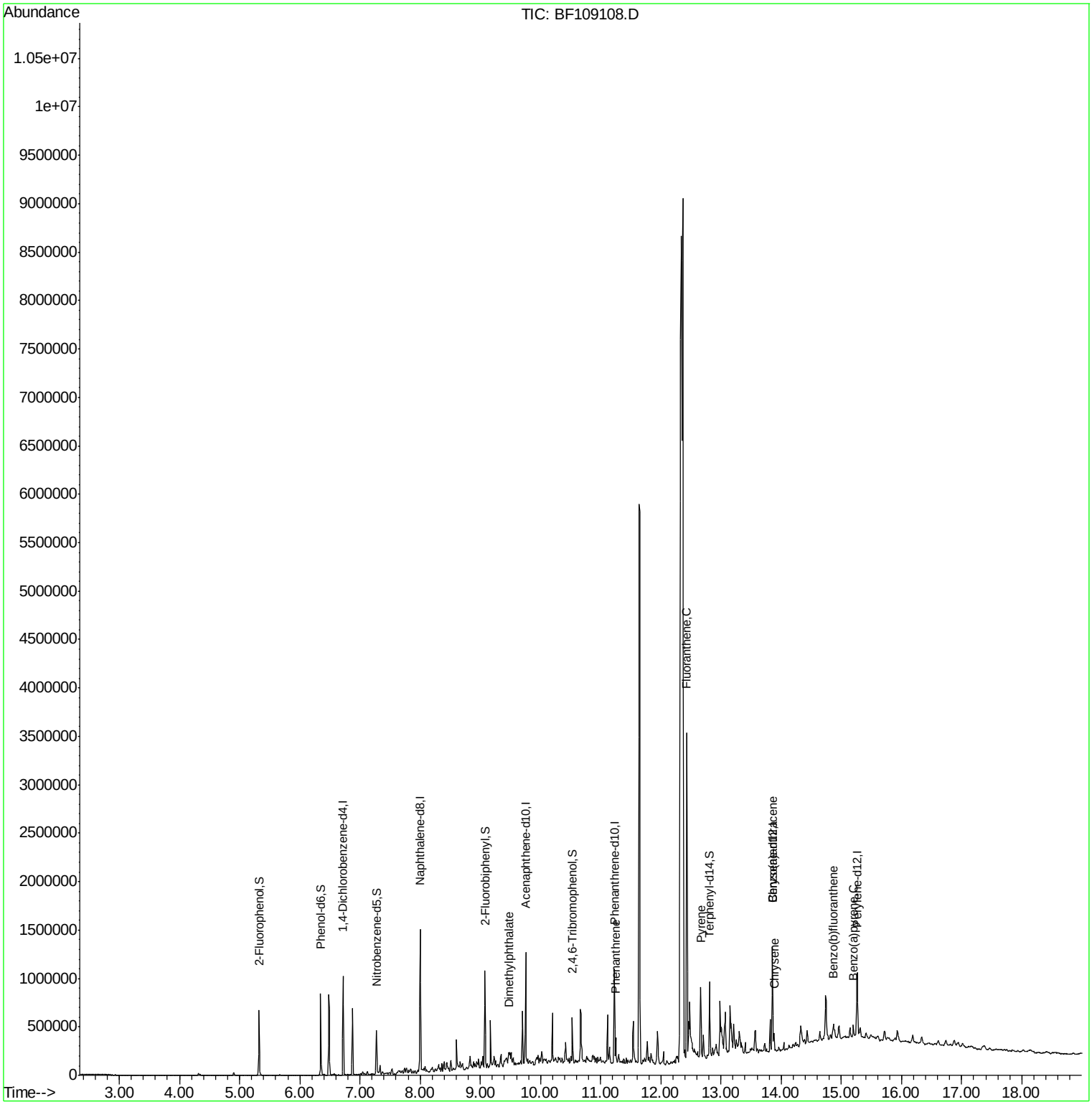
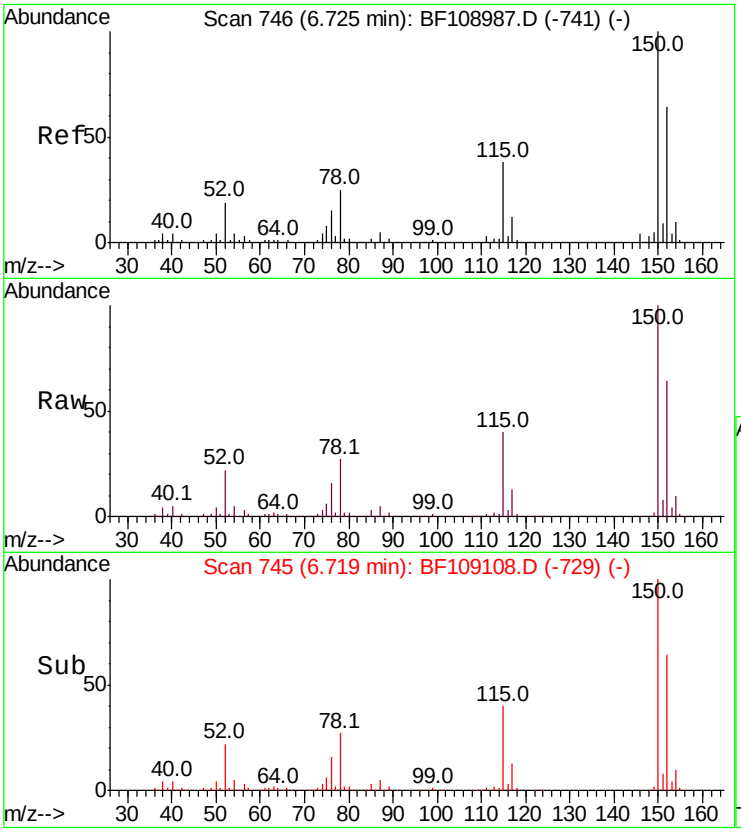
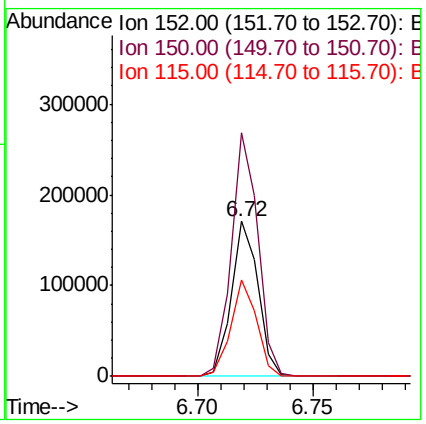





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 745
Delta R.T. -0.01 min
Lab File: BF109108.D
Acq: 18 Sep 2018 20:56

Tgt Ion:152 Resp: 137994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.9 | 124.6 | 186.8 |
| 115 | 62.5 | 50.1 | 75.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
HD-02-091718

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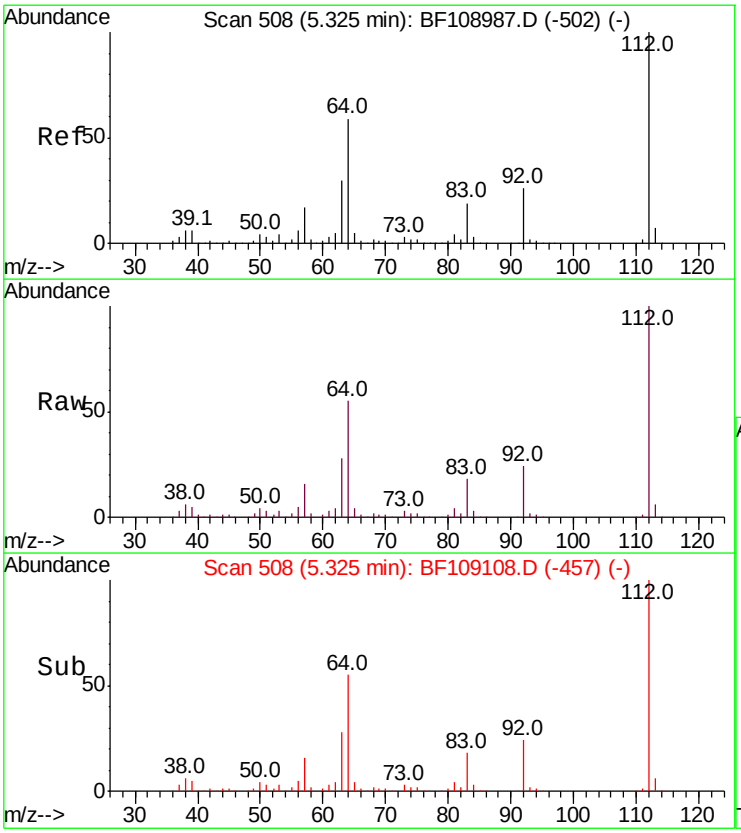
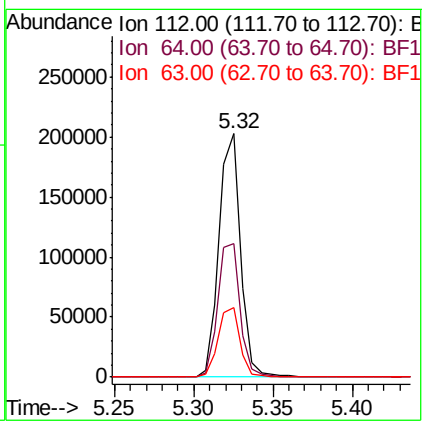
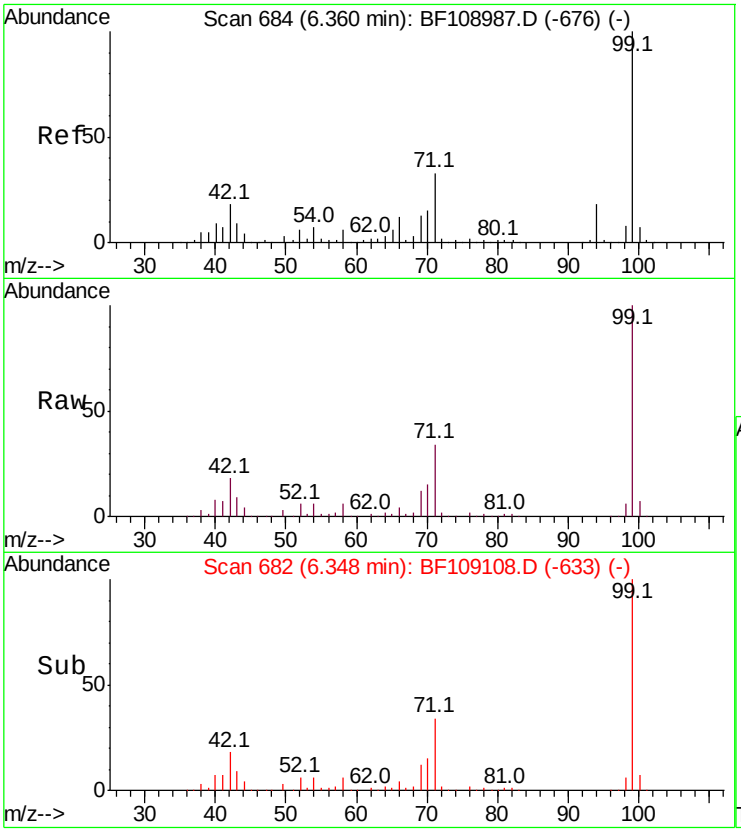



#5
2-Fluorophenol
Concen: 23.071 ng
RT: 5.32 min Scan# 508
Delta R.T. 0.00 min
Lab File: BF109108.D
Acq: 18 Sep 2018 20:56

Tgt Ion:112 Resp: 191682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.0 | 47.9 | 71.9 |
| 63 | 28.4 | 23.7 | 35.5 |

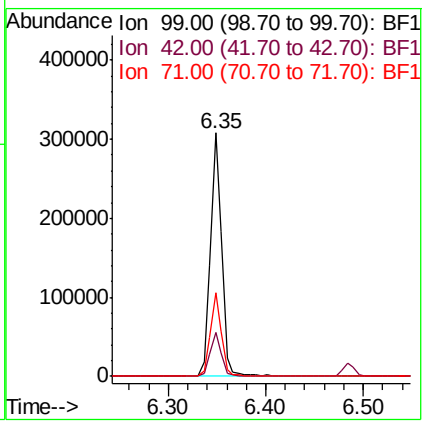





#7
Phenol-d6
Concen: 22.985 ng
RT: 6.35 min Scan# 682
Delta R.T. -0.01 min
Lab File: BF109108.D
Acq: 18 Sep 2018 20:56

Tgt Ion: 99 Resp: 246252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 18.2 | 14.5 | 21.7 |
| 71 | 34.1 | 25.4 | 38.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
HD-02-091718

**Manual Integrations APPROVED**
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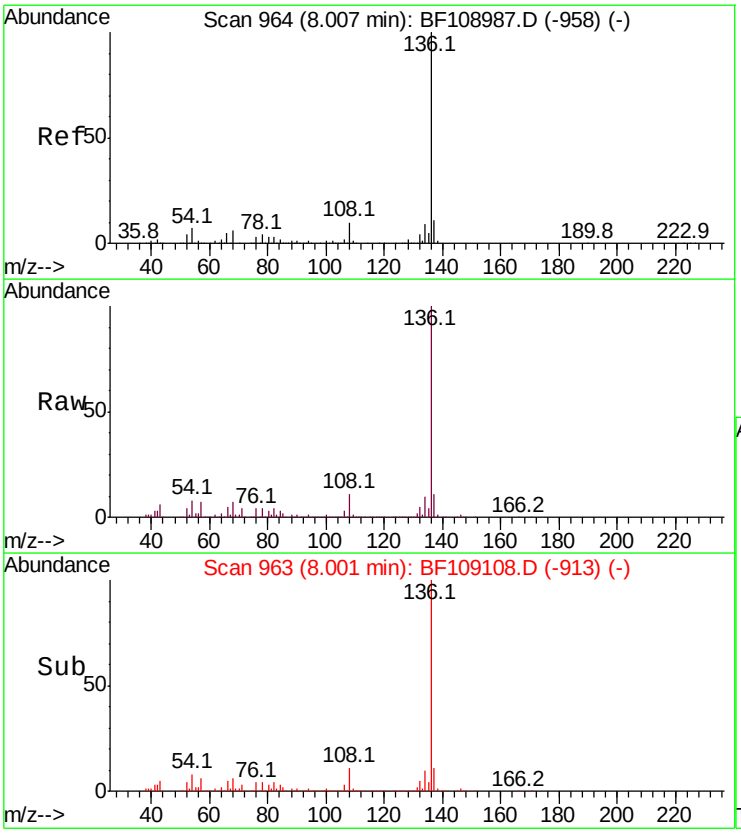
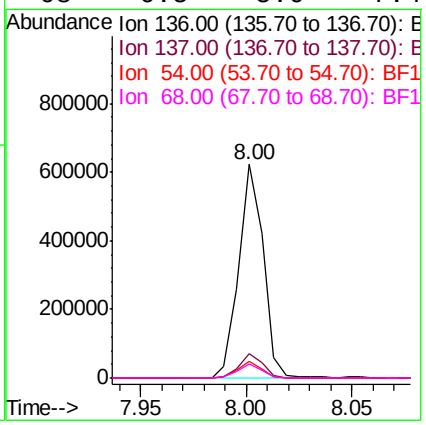
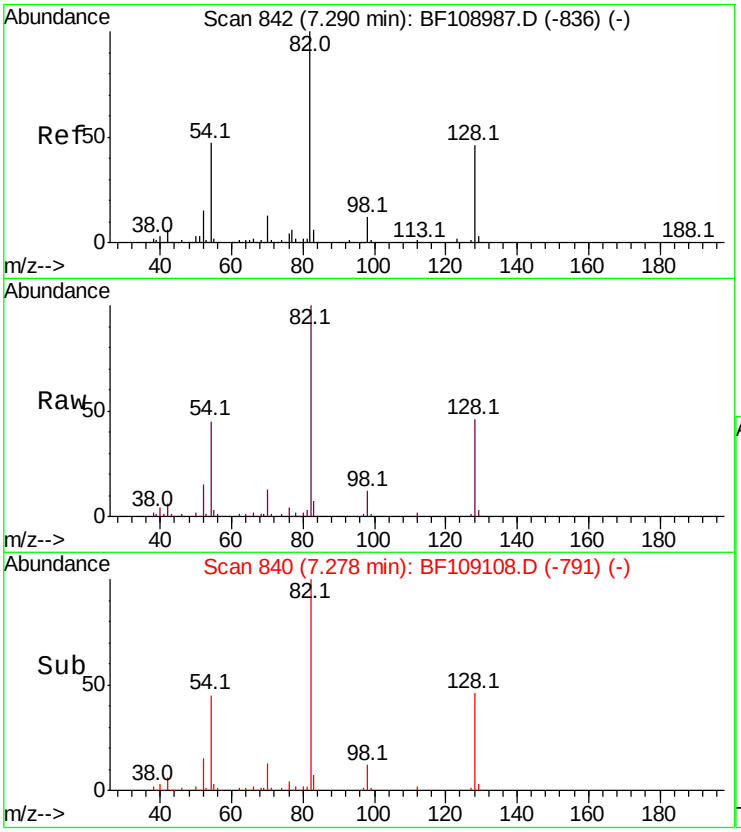



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.00 min Scan# 963
Delta R.T. -0.01 min
Lab File: BF109108.D
Acq: 18 Sep 2018 20:56

Tgt Ion:136 Resp: 499559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 8.9 | 13.3 |
| 54 | 7.6 | 6.6 | 9.8 |
| 68 | 6.5 | 5.0 | 7.4 |

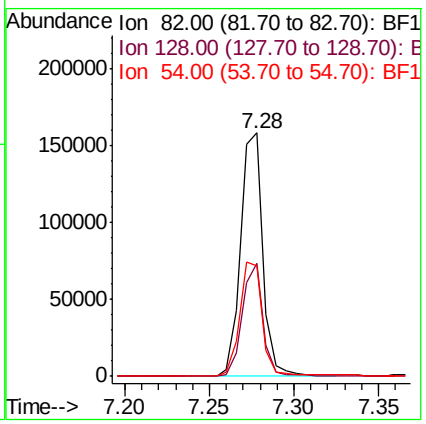





#23
Nitrobenzene-d5
Concen: 16.440 ng
RT: 7.28 min Scan# 840
Delta R.T. -0.01 min
Lab File: BF109108.D
Acq: 18 Sep 2018 20:56

Tgt Ion: 82 Resp: 146426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 46.2 | 36.1 | 54.1 |
| 54 | 45.4 | 41.4 | 62.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
HD-02-091718

**Manual Integrations APPROVED**
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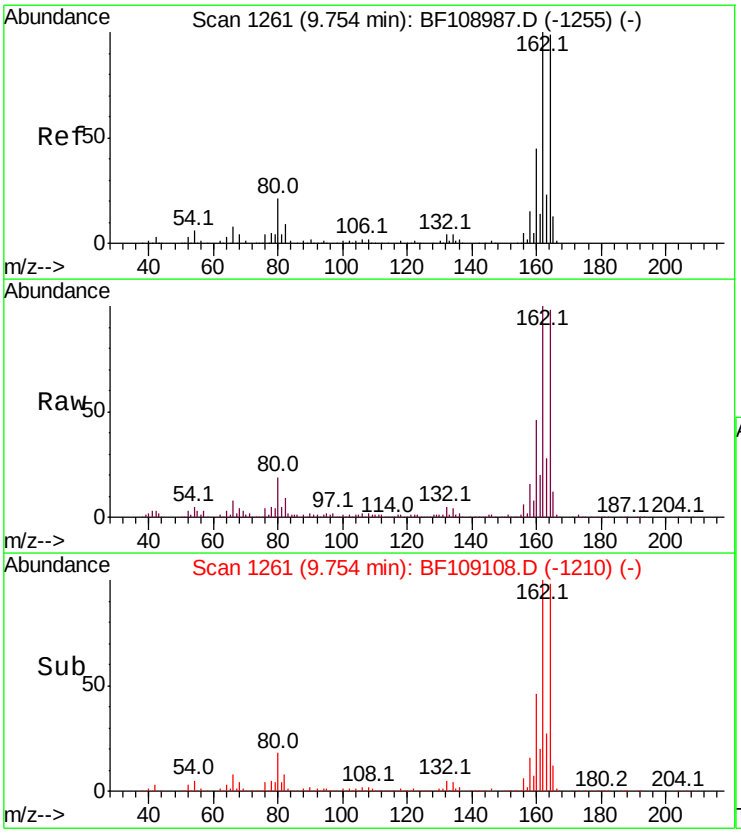
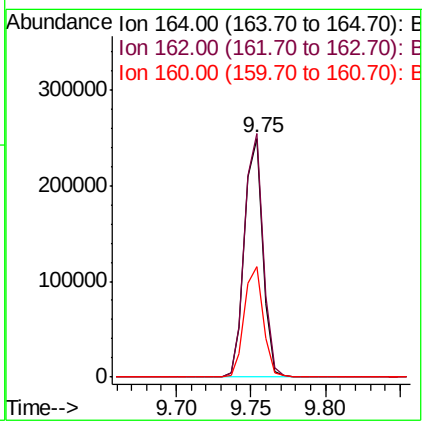
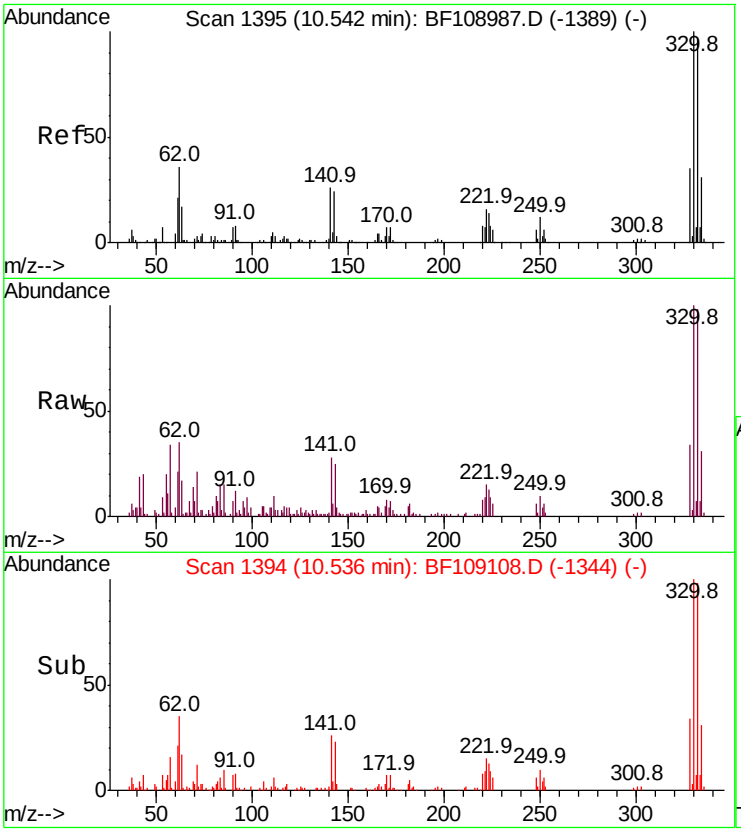



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.75 min Scan# 1261
Delta R.T. 0.00 min
Lab File: BF109108.D
Acq: 18 Sep 2018 20:56

Tgt Ion:164 Resp: 212932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.0 | 86.1 | 129.1 |
| 160 | 46.4 | 38.3 | 57.5 |

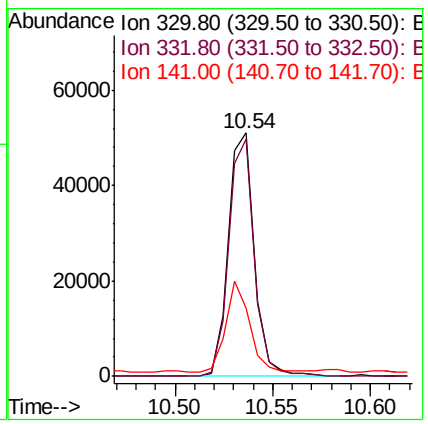





#41
2,4,6-Tribromophenol
Concen: 20.381 ng
RT: 10.54 min Scan# 1394
Delta R.T. -0.01 min
Lab File: BF109108.D
Acq: 18 Sep 2018 20:56

Tgt Ion:330 Resp: 47099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.1 | 77.0 | 115.6 |
| 141 | 33.8 | 29.9 | 44.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
HD-02-091718

**Manual Integrations APPROVED**
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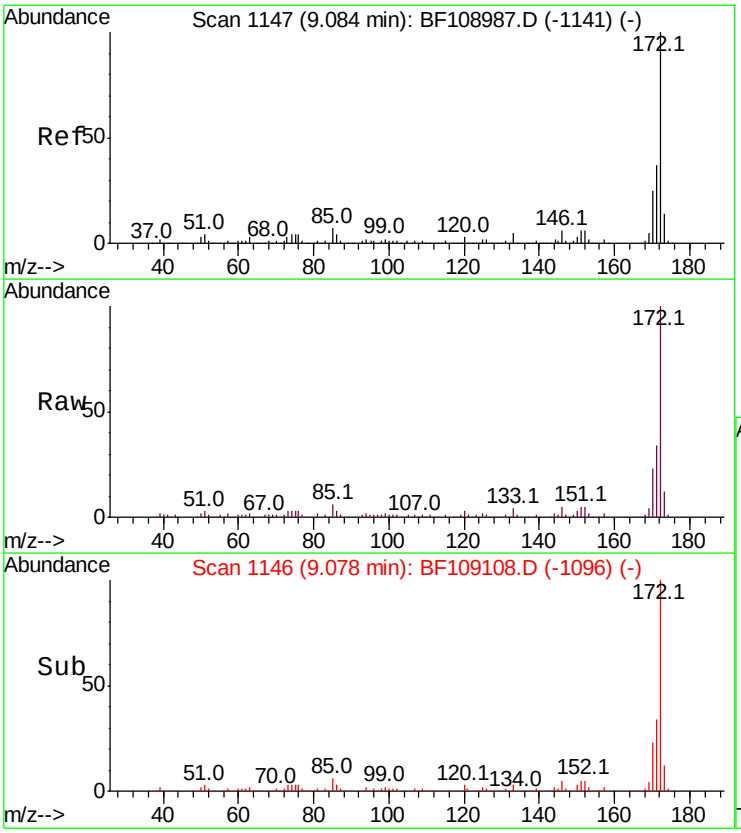
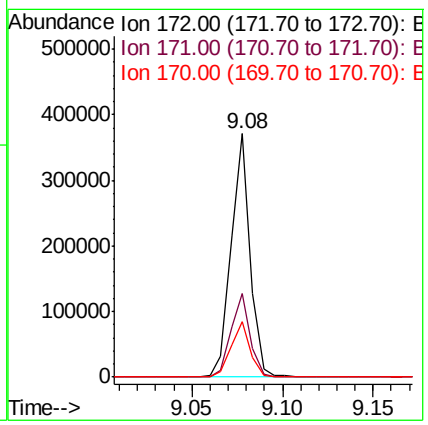
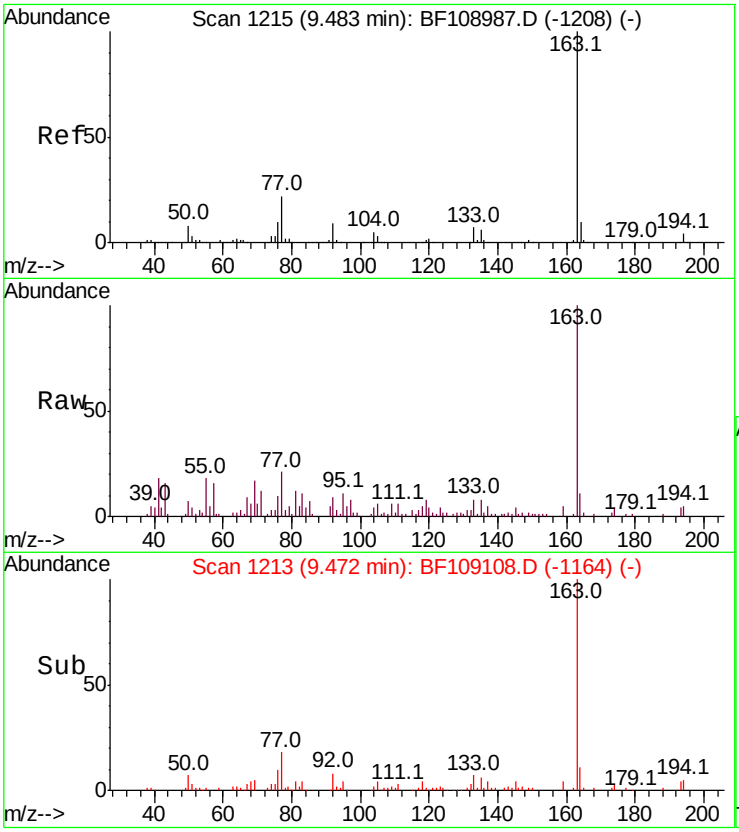



#44
2-Fluorobiphenyl
Concen: 19.939 ng
RT: 9.08 min Scan# 1146
Delta R.T. -0.01 min
Lab File: BF109108.D
Acq: 18 Sep 2018 20:56

Tgt Ion:172 Resp: 270987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.4 | 29.7 | 44.5 |
| 170 | 22.7 | 19.6 | 29.4 |

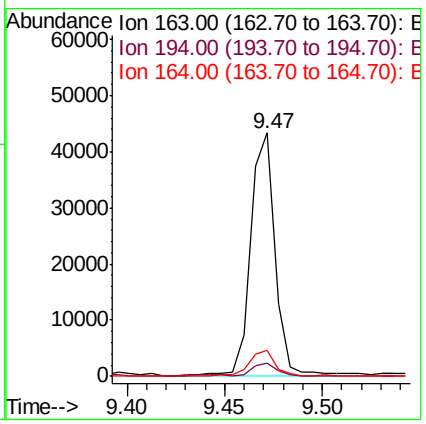





#49
Dimethylphthalate
Concen: 2.485 ng
RT: 9.47 min Scan# 1213
Delta R.T. -0.01 min
Lab File: BF109108.D
Acq: 18 Sep 2018 20:56

Tgt Ion:163 Resp: 37825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 5.2 | 2.7 | 4.1# |
| 164 | 10.9 | 8.2 | 12.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
HD-02-091718

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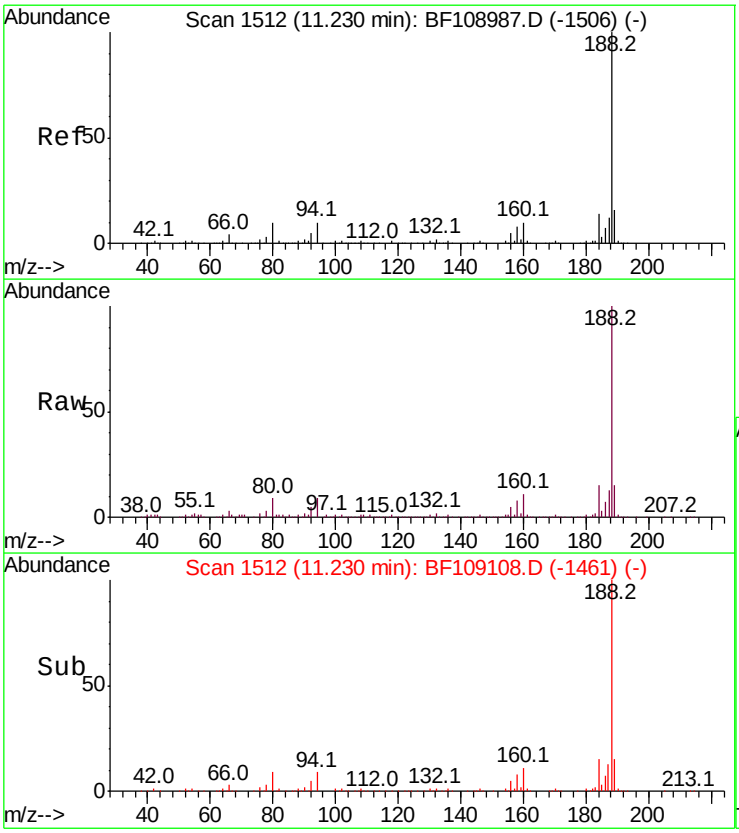
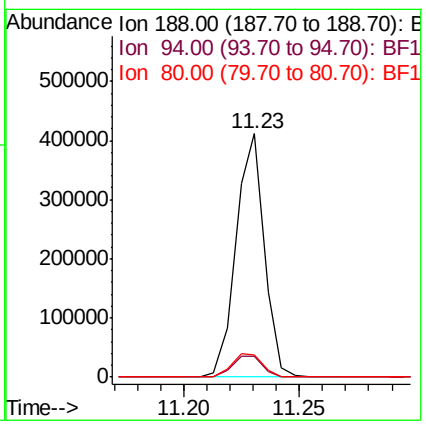
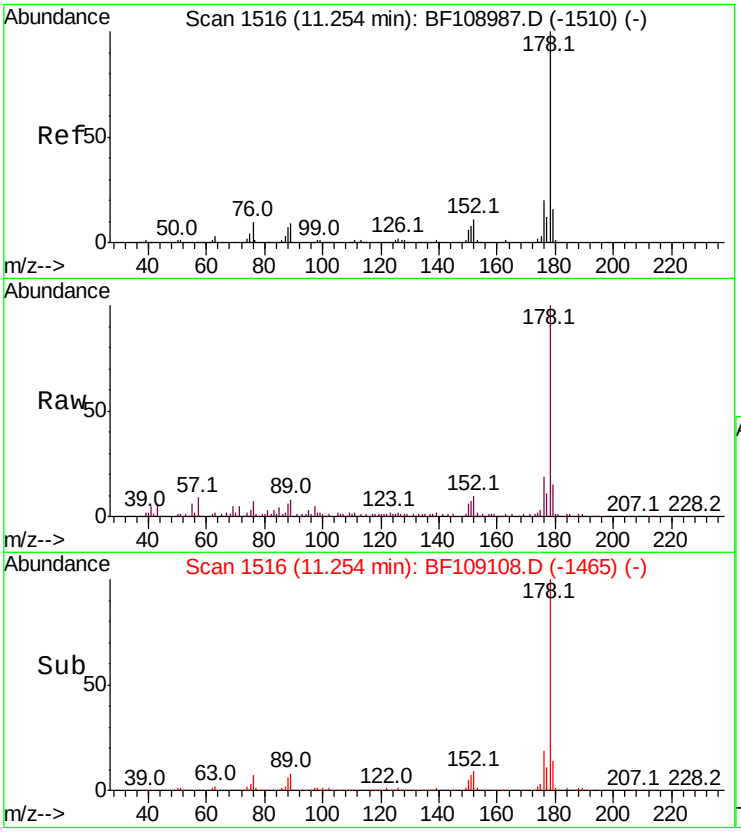



#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.23 min Scan# 1512
Delta R.T. 0.00 min
Lab File: BF109108.D
Acq: 18 Sep 2018 20:56

Tgt Ion:188 Resp: 350738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.7 | 8.5 | 12.7 |
| 80 | 9.0 | 9.2 | 13.8# |

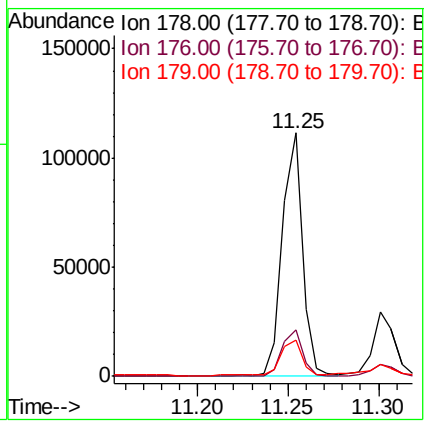





#70
Phenanthrene
Concen: 5.075 ng
RT: 11.25 min Scan# 1516
Delta R.T. 0.00 min
Lab File: BF109108.D
Acq: 18 Sep 2018 20:56

Tgt Ion:178 Resp: 87263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.1 | 15.8 | 23.8 |
| 179 | 15.1 | 13.0 | 19.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
HD-02-091718

**Manual Integrations APPROVED**
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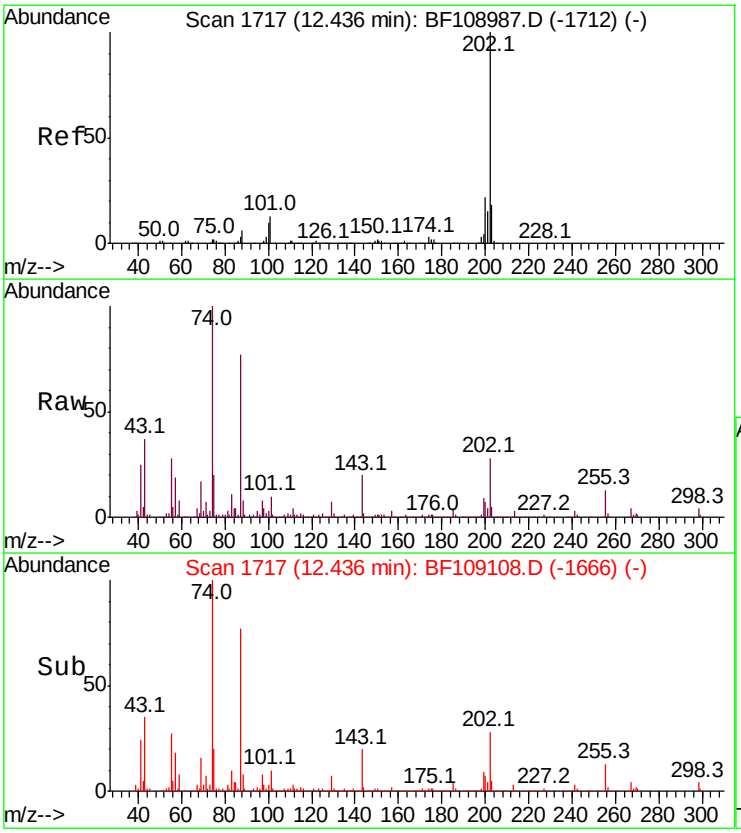
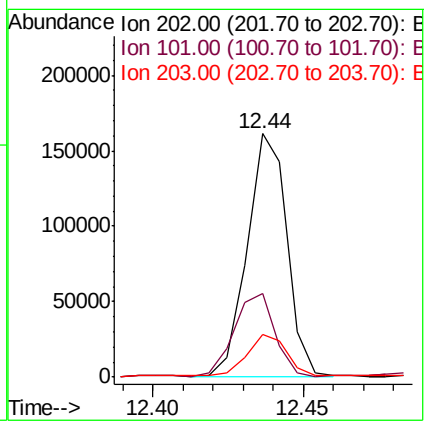
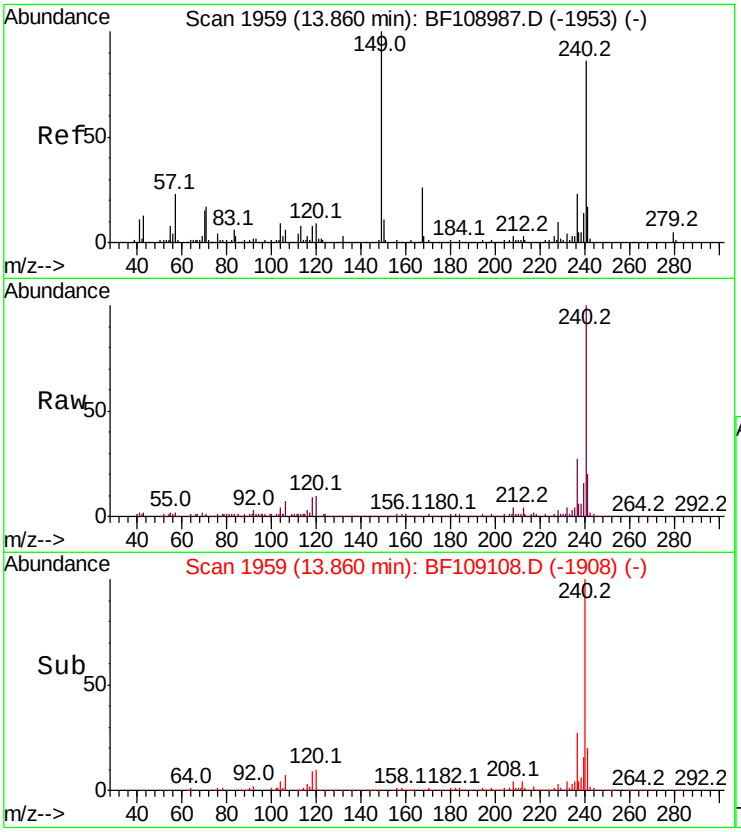



#74
Fluoranthene
Concen: 8.291 ng m
RT: 12.44 min Scan# 1717
Delta R.T. 0.00 min
Lab File: BF109108.D
Acq: 18 Sep 2018 20:56

Tgt Ion:202 Resp: 150484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 34.4 | 0.0 | 34.1# |
| 203 | 17.4 | 0.0 | 38.1 |

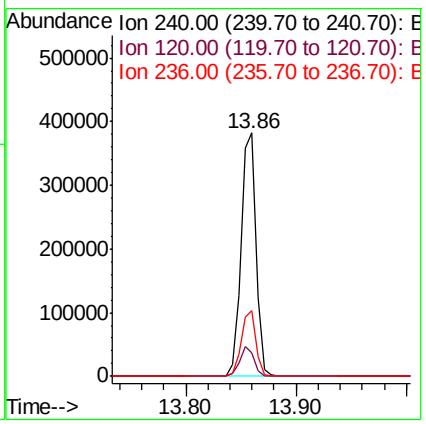





#75
Chrysene-d12
Concen: 20.000 ng
RT: 13.86 min Scan# 1959
Delta R.T. 0.00 min
Lab File: BF109108.D
Acq: 18 Sep 2018 20:56

Tgt Ion:240 Resp: 364987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.7 | 9.5 | 14.3 |
| 236 | 27.2 | 20.7 | 31.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
HD-02-091718

**Manual Integrations APPROVED**
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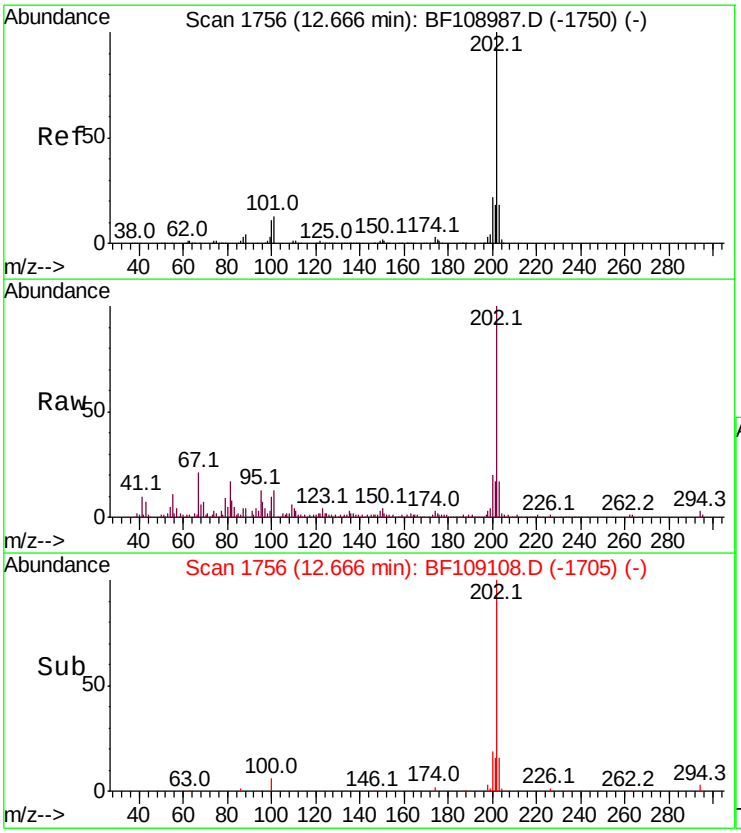
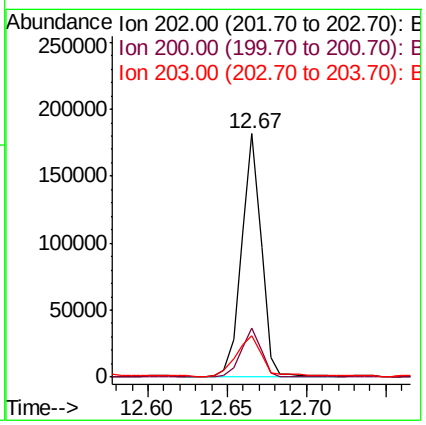
9/19/2018 4:23:50 PM

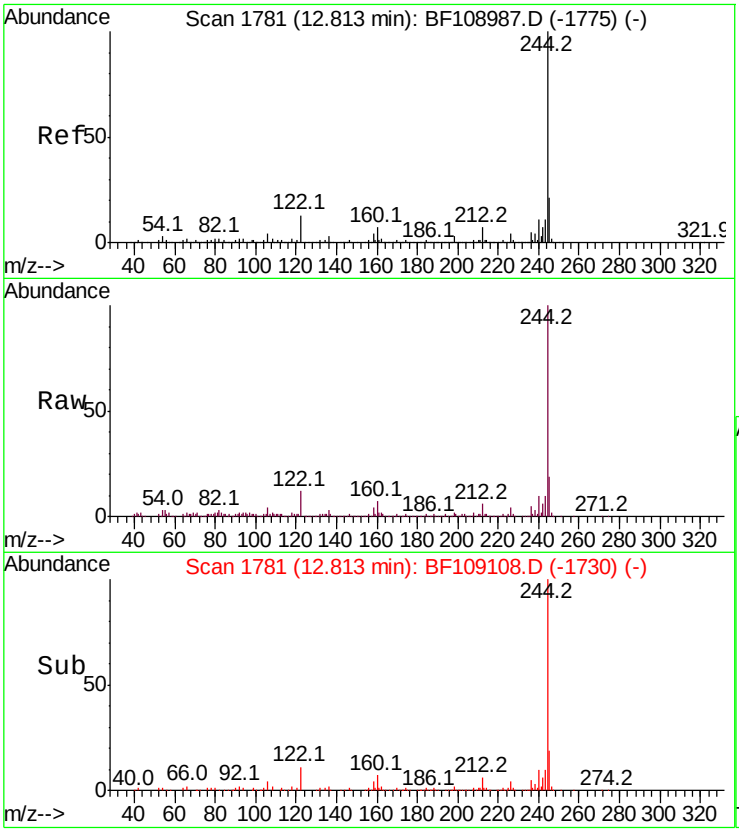



#77
Pyrene
Concen: 5.672 ng
RT: 12.67 min Scan# 1756
Delta R.T. 0.00 min
Lab File: BF109108.D
Acq: 18 Sep 2018 20:56

Tgt Ion:202 Resp: 153779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 19.9 | 17.4 | 26.2 |
| 203 | 16.9 | 14.3 | 21.5 |

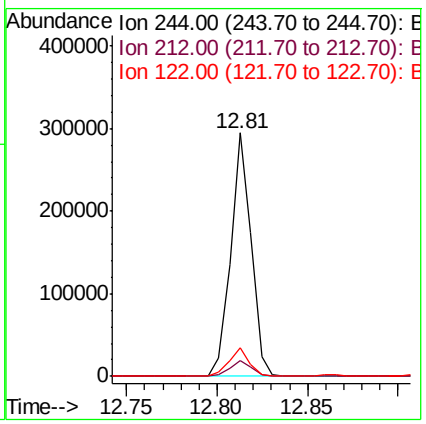





#78
Terphenyl-d14
Concen: 14.985 ng
RT: 12.81 min Scan# 1781
Delta R.T. 0.00 min
Lab File: BF109108.D
Acq: 18 Sep 2018 20:56

Tgt Ion:244 Resp: 230752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.4 | 5.4 | 8.0 |
| 122 | 11.6 | 11.0 | 16.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
HD-02-091718

**Manual Integrations APPROVED**
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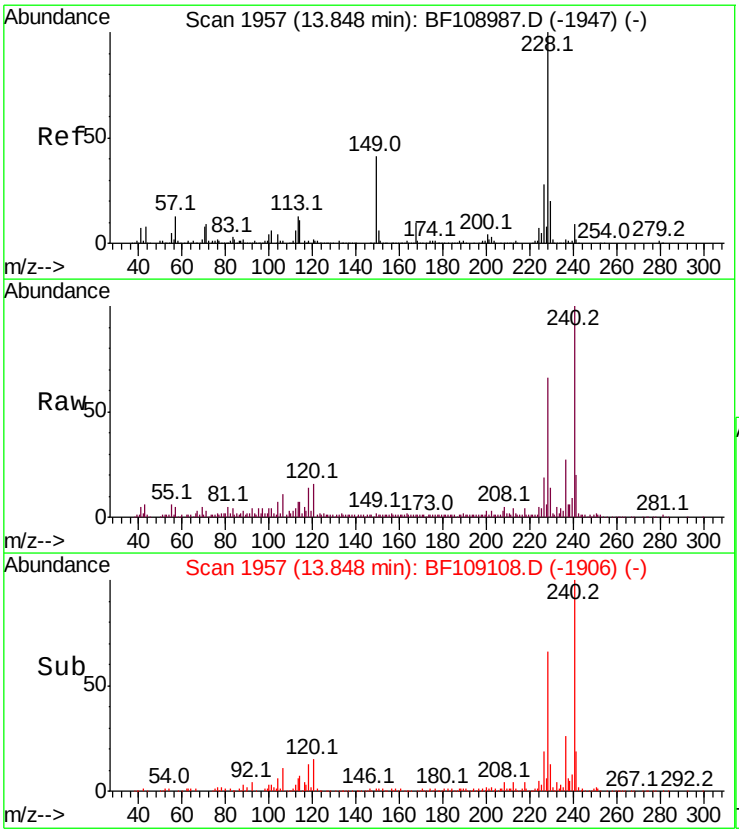
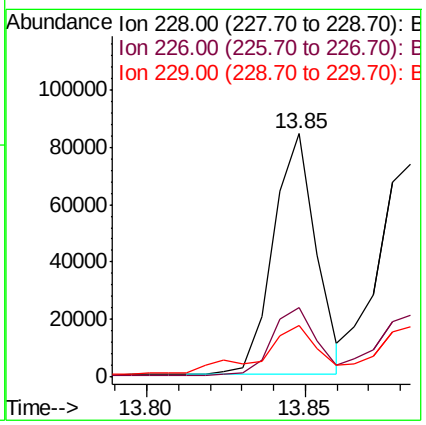
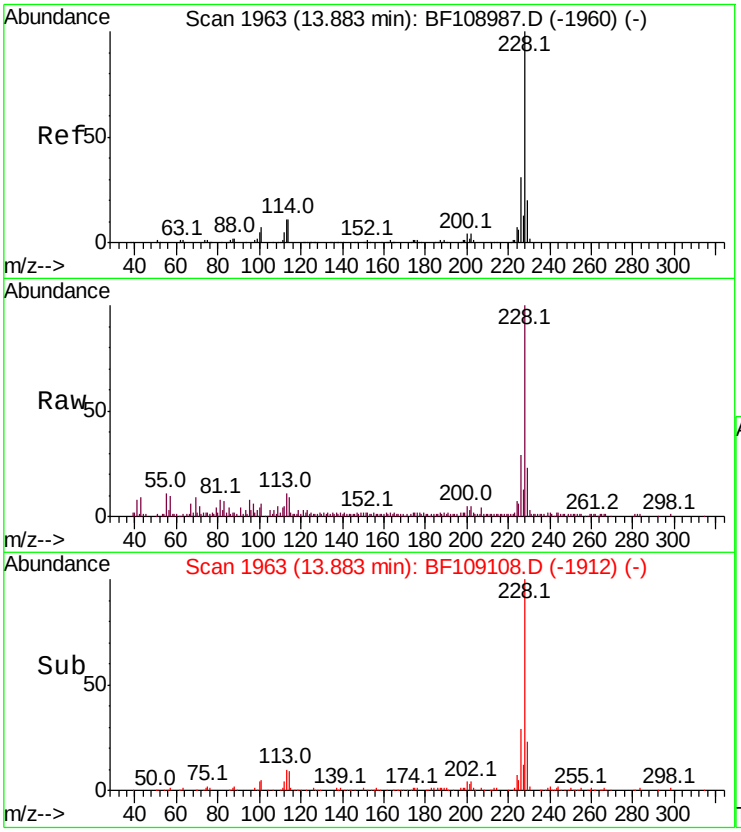



#80
Benzo(a)anthracene
Concen: 3.575 ng
RT: 13.85 min Scan# 1957
Delta R.T. 0.00 min
Lab File: BF109108.D
Acq: 18 Sep 2018 20:56

Tgt Ion:228 Resp: 78991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.7 | 22.6 | 33.8 |
| 229 | 21.1 | 15.8 | 23.6 |

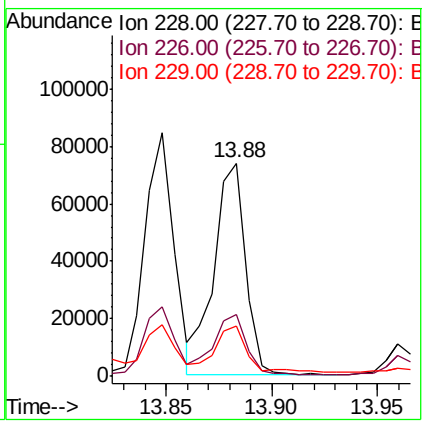





#82
Chrysene
Concen: 3.458 ng
RT: 13.88 min Scan# 1963
Delta R.T. 0.00 min
Lab File: BF109108.D
Acq: 18 Sep 2018 20:56

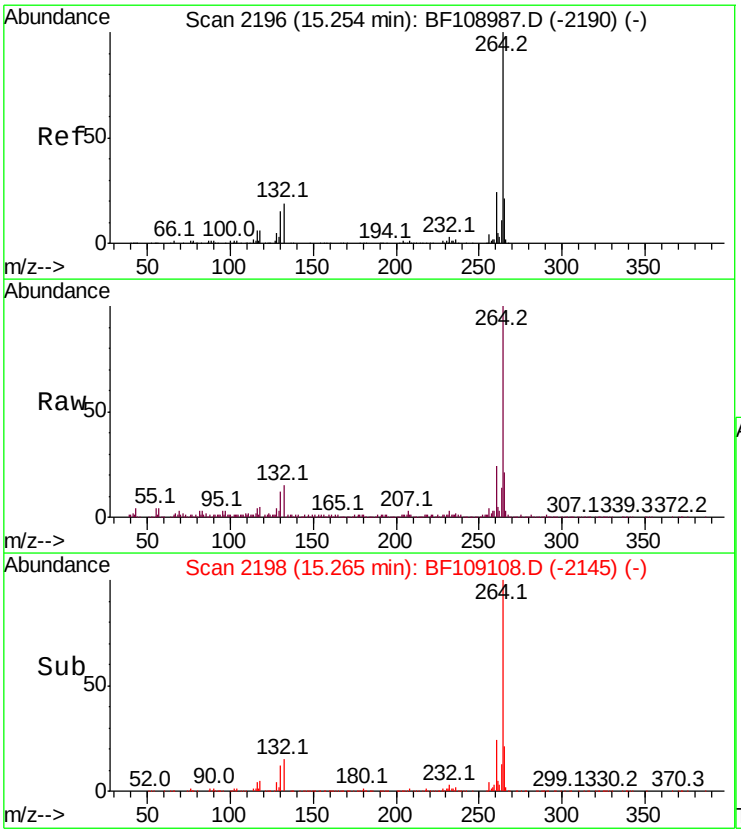
Tgt Ion:228 Resp: 76451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.3 | 25.0 | 37.6 |
| 229 | 23.5 | 16.2 | 24.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
HD-02-091718

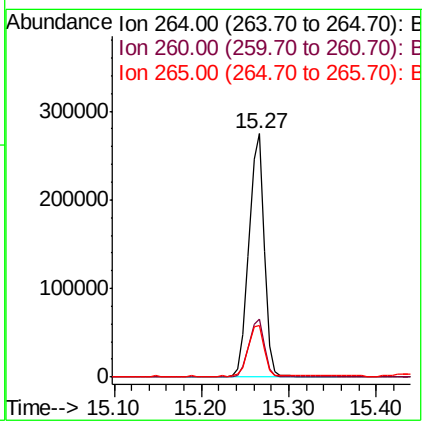
**Manual Integrations APPROVED**
Sohil
9/19/2018 4:23:50 PM

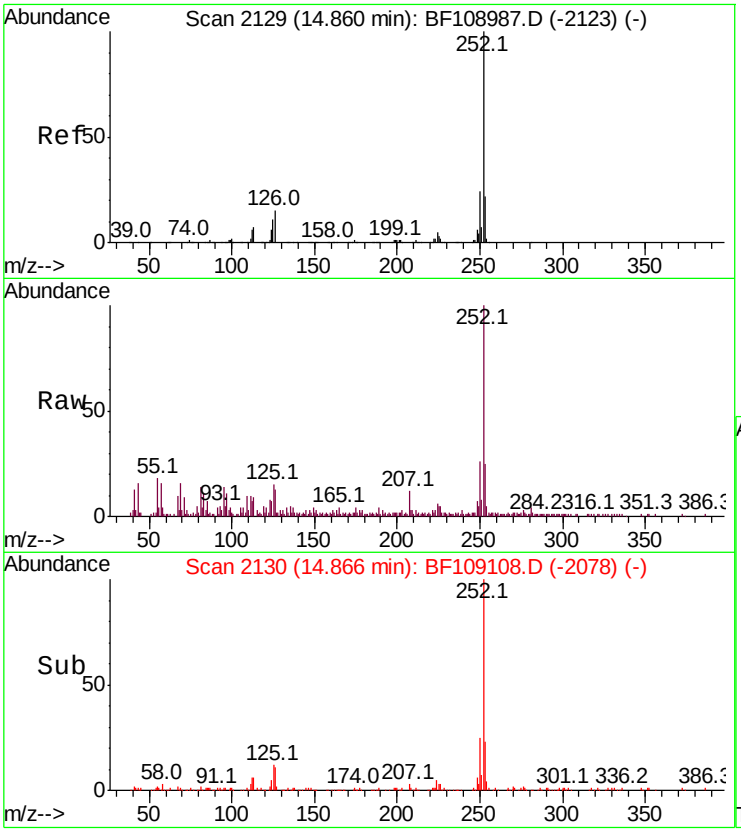



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.27 min Scan# 2198
Delta R.T. 0.01 min
Lab File: BF109108.D
Acq: 18 Sep 2018 20:56

Tgt Ion:264 Resp: 319548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.9 | 19.2 | 28.8 |
| 265 | 21.4 | 17.5 | 26.3 |





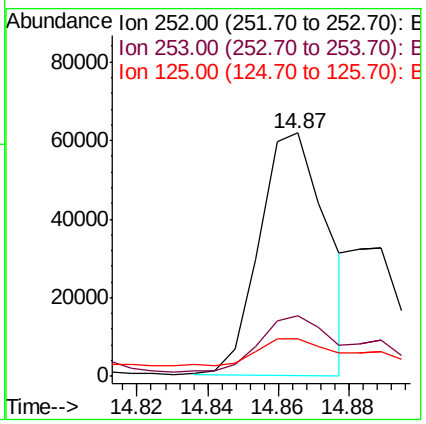

#87
Benzo(b)fluoranthene
Concen: 4.663 ng m
RT: 14.87 min Scan# 2130
Delta R.T. 0.01 min
Lab File: BF109108.D
Acq: 18 Sep 2018 20:56

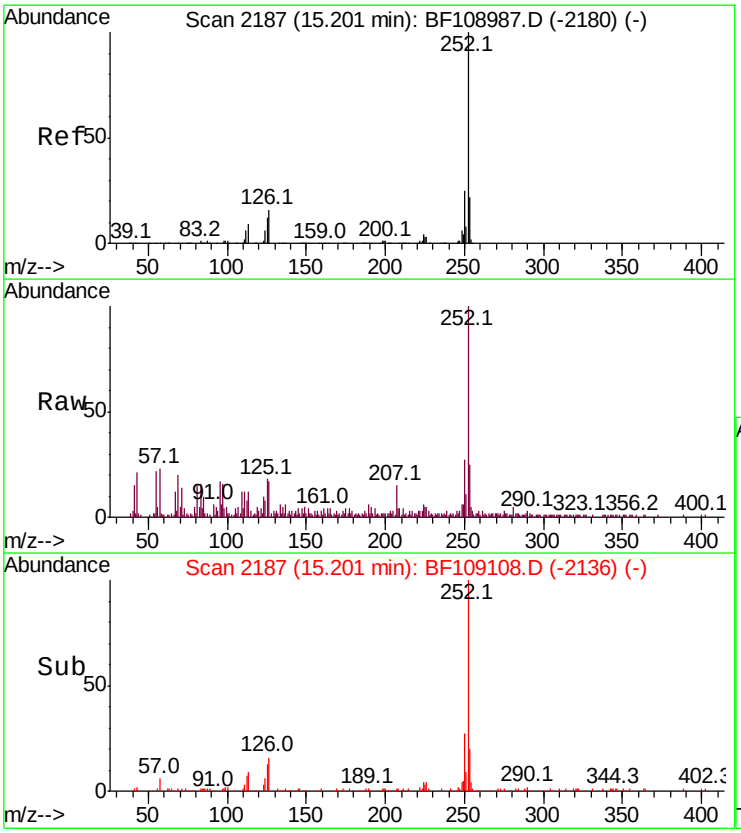
Tgt Ion:252 Resp: 82441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.9 | 17.0 | 25.6 |
| 125 | 15.3 | 9.0 | 13.6# |

**Instrument :**
BNA_F
**ClientSampleId :**
HD-02-091718

**Manual Integrations APPROVED**
Sohil
9/19/2018 4:23:50 PM




#89
Benzo(a)pyrene
Concen: 3.514 ng
RT: 15.20 min Scan# 2187
Delta R.T. 0.00 min
Lab File: BF109108.D
Acq: 18 Sep 2018 20:56

Tgt Ion:252 Resp: 55174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.9 | 17.1 | 25.7 |
| 125 | 18.1 | 9.8 | 14.6# |