Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117650.D
Acq On : 31 Oct 2019 9:09
Operator : JU
Sample : K5540-03DL 5X
Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
155-40-(0-1.1)DL

**Manual Integrations APPROVED**
mohammad
10/31/2019 3:11:29 PM

Quant Time: Oct 31 09:40:20 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 18:53:31 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.73 | 152 | 27067 | 20.00 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.02 | 136 | 113510 | 20.00 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.76 | 164 | 54547 | 20.00 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.25 | 188 | 86270 | 20.00 | ng | 0.00 |
| 76) Chrysene-d12 | 13.90 | 240 | 70794 | 20.00 | ng | 0.00 |
| 87) Perylene-d12 | 15.33 | 264 | 58695 | 20.00 | ng | 0.01 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 5.39 | 112 | 15629 | 8.59 | ng | 0.04 |
| 7) Phenol-d6 | 6.42 | 99 | 37777 | 15.46 | ng | 0.04 |
| 23) Nitrobenzene-d5 | 7.32 | 82 | 23436 | 10.19 | ng | 0.02 |
| 42) 2,4,6-Tribromophenol | 10.57 | 330 | 5943 | 12.59 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.09 | 172 | 37983 | 9.81 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.83 | 244 | 28542 | 6.58 | ng | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 58) Fluorene | 10.32 | 166 | 7392 | 2.011 | ng | 96 |
| 71) Phenanthrene | 11.27 | 178 | 134520 | 26.854 | ng | 98 |
| 72) Anthracene | 11.33 | 178 | 34448 | 6.702 | ng | 97 |
| 75) Fluoranthene | 12.47 | 202 | 164724 | 32.848 | ng | 98 |
| 78) Pyrene | 12.70 | 202 | 147006 | 24.175 | ng | 99 |
| 81) Benzo(a)anthracene | 13.89 | 228 | 66174 | 13.857 | ng | 99 |
| 83) Chrysene | 13.92 | 228 | 55131 | 11.780 | ng | 98 |
| 86) Indeno(1,2,3-cd)pyrene | 16.77 | 276 | 14216 | 4.068 | ng | 96 |
| 88) Benzo(b)fluoranthene | 14.93 | 252 | 52547m | 15.161 | ng | |
| 89) Benzo(k)fluoranthene | 14.95 | 252 | 15459m | 4.352 | ng | |
| 90) Benzo(a)pyrene | 15.28 | 252 | 33709 | 10.697 | ng | 94 |
| 92) Benzo(g,h,i)perylene | 17.20 | 276 | 12491 | 4.845 | ng | 93 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117650.D
Acq On : 31 Oct 2019 9:09
Operator : JU
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Misc :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
155-40-(0-1.1)DL

**Manual Integrations APPROVED**
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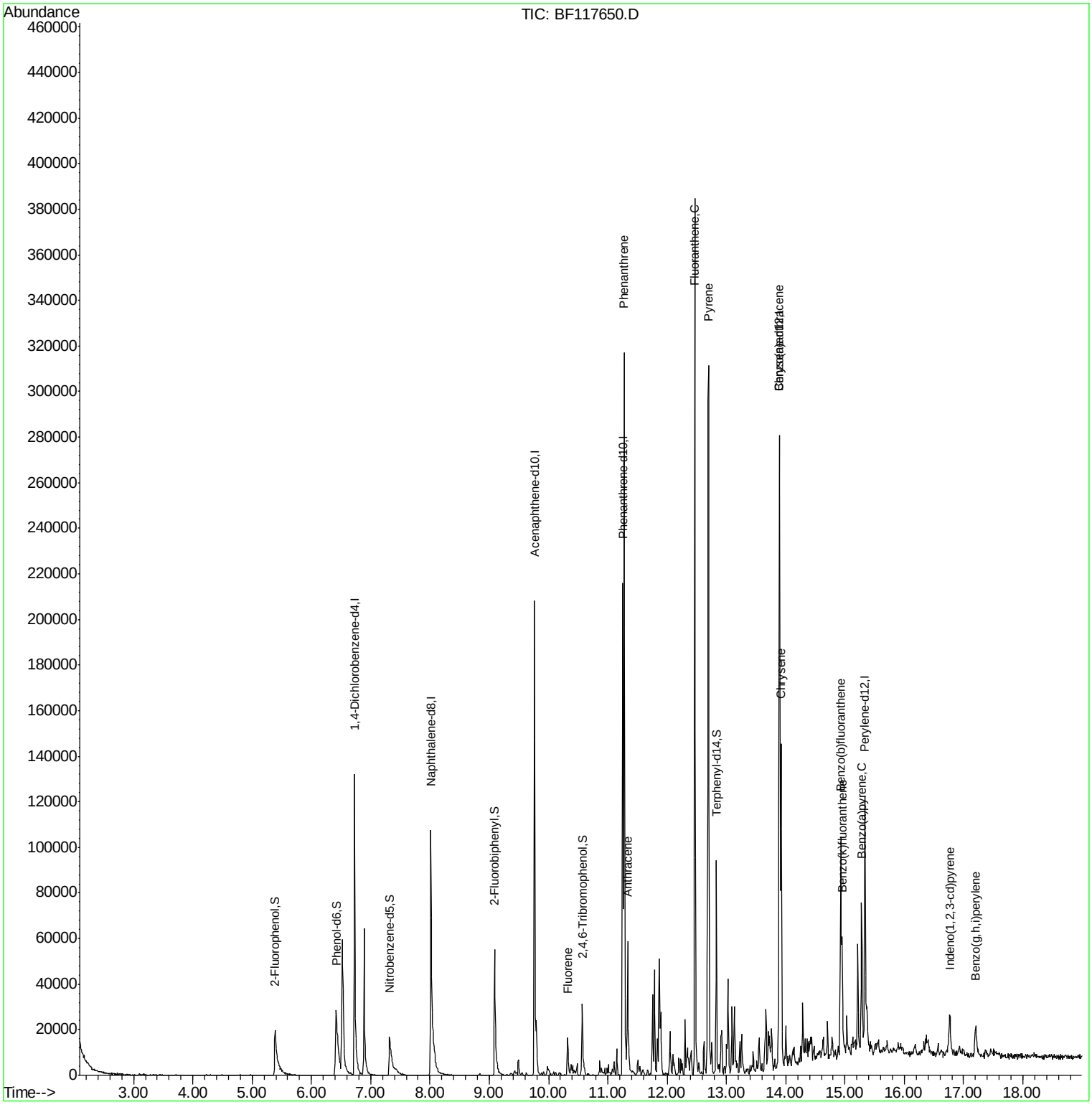
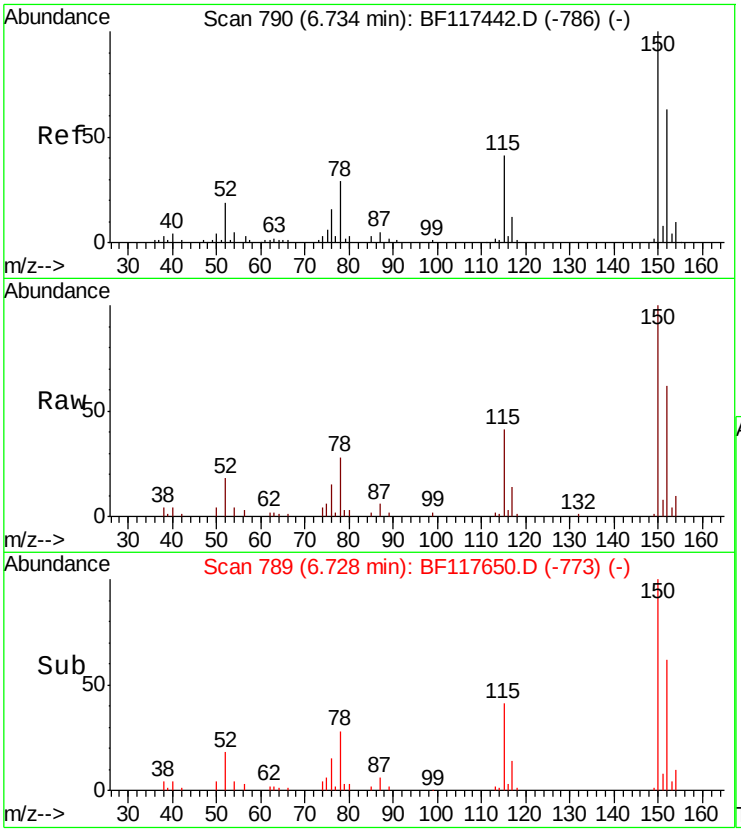
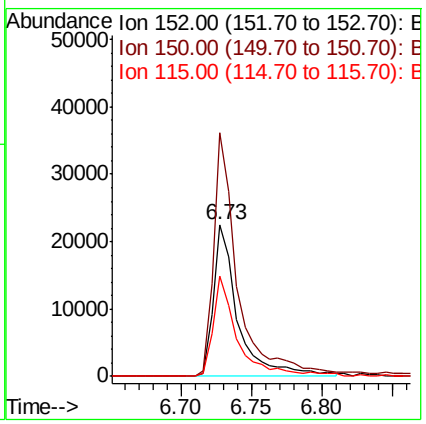





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion:152 Resp: 27067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 160.4 | 126.8 | 190.2 |
| 115 | 66.0 | 51.6 | 77.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
155-40-(0-1.1)DL

**Manual Integrations APPROVED**
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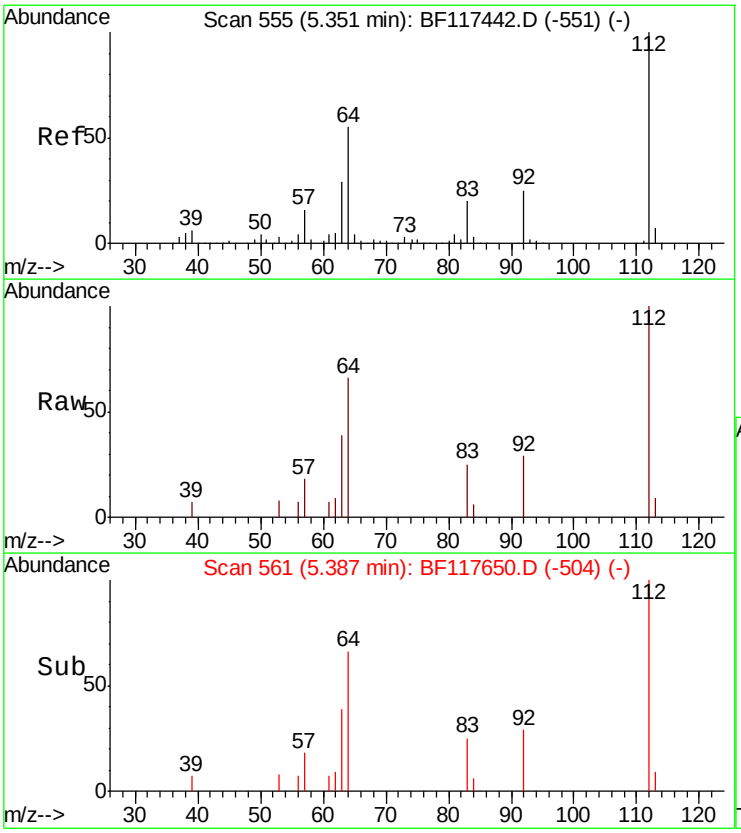
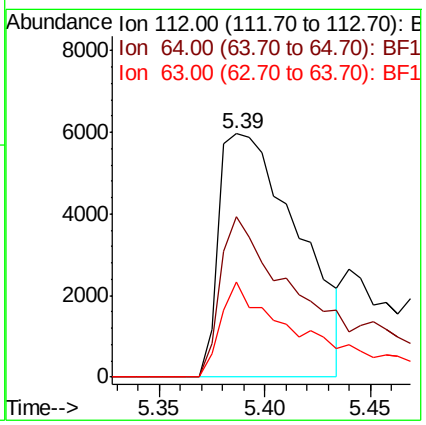
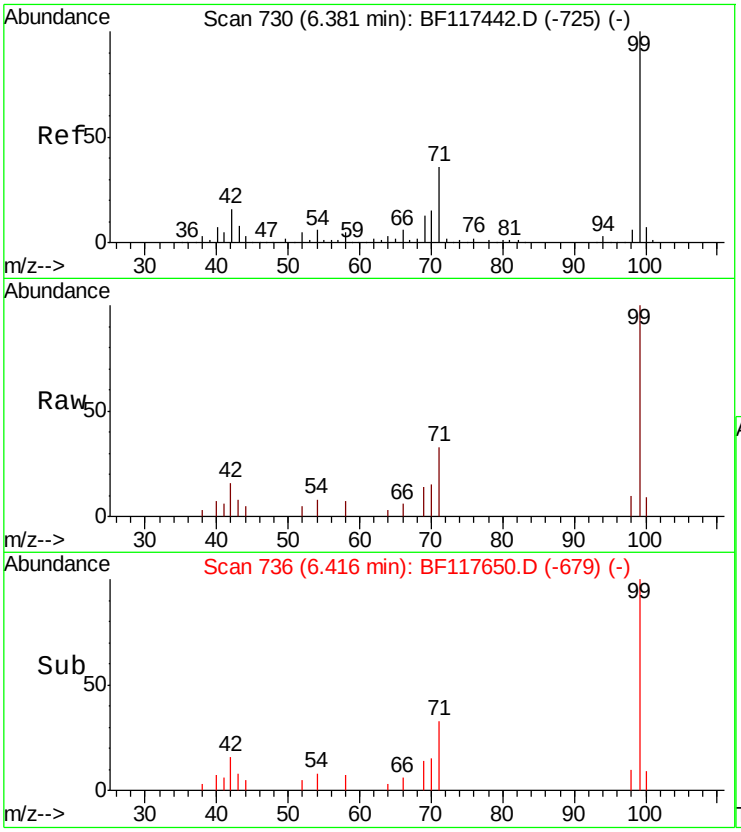



#5
2-Fluorophenol
Concen: 8.590 ng
RT: 5.39 min Scan# 561
Delta R.T. 0.04 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion:112 Resp: 15629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 65.9 | 44.1 | 66.1 |
| 63 | 38.8 | 23.4 | 35.2# |

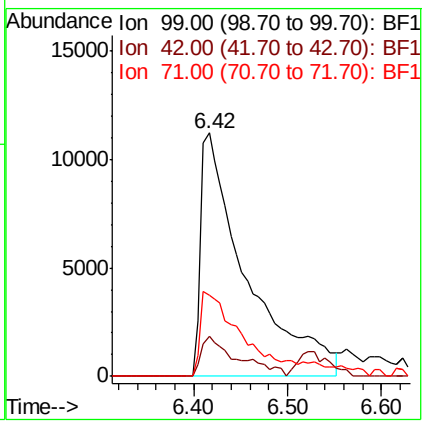





#7
Phenol-d6
Concen: 15.459 ng
RT: 6.42 min Scan# 736
Delta R.T. 0.04 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion: 99 Resp: 37777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 16.3 | 12.8 | 19.2 |
| 71 | 33.3 | 28.6 | 43.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
155-40-(0-1.1)DL

**Manual Integrations APPROVED**
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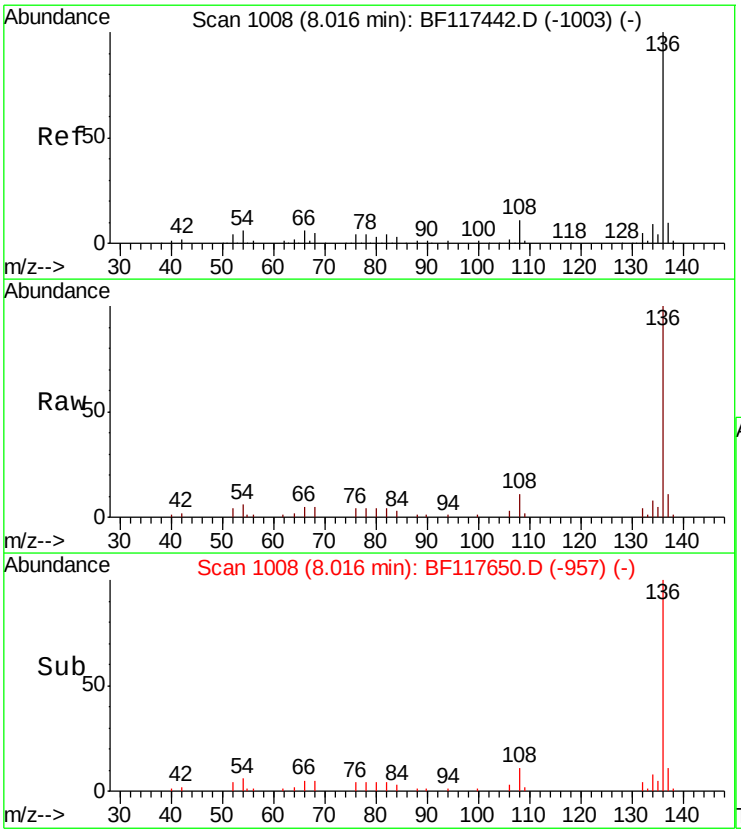
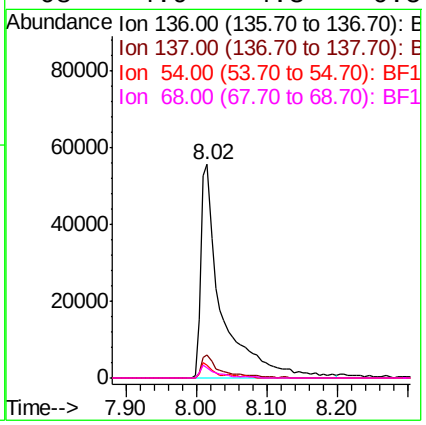
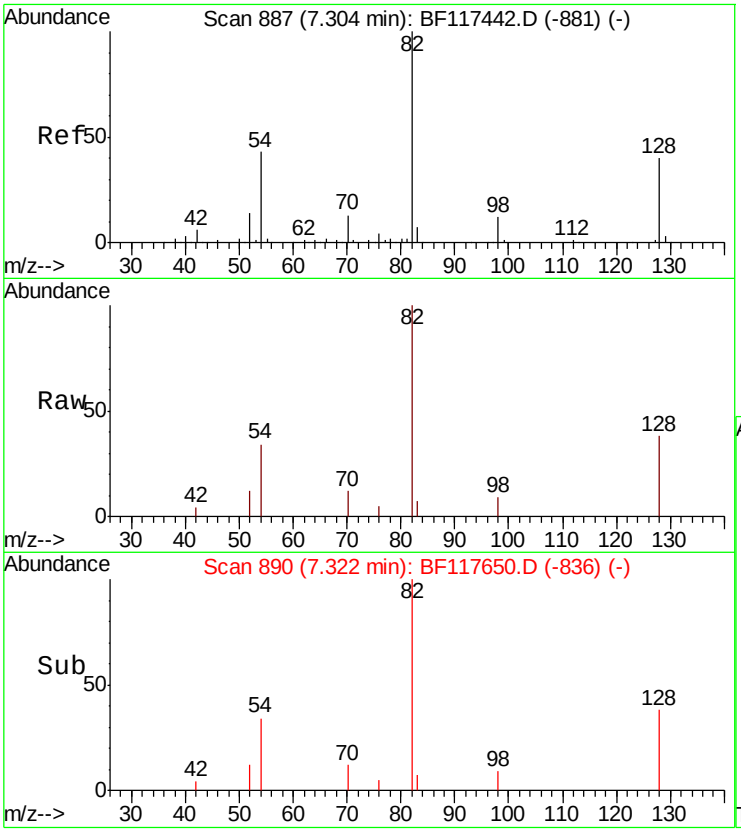



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.02 min Scan# 1008
Delta R.T. 0.00 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion:136 Resp: 113510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.8 | 8.2 | 12.4 |
| 54 | 5.8 | 4.5 | 6.7 |
| 68 | 4.9 | 4.3 | 6.5 |

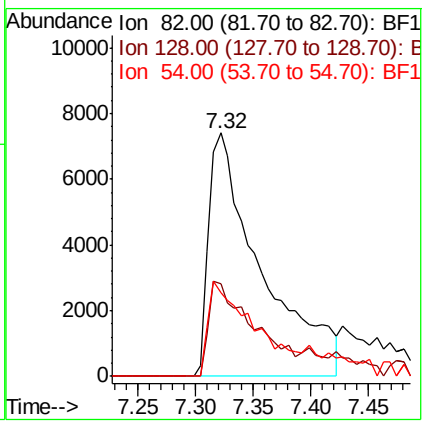





#23
Nitrobenzene-d5
Concen: 10.193 ng
RT: 7.32 min Scan# 890
Delta R.T. 0.02 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion: 82 Resp: 23436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 38.2 | 32.2 | 48.2 |
| 54 | 34.5 | 34.2 | 51.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
155-40-(0-1.1)DL

**Manual Integrations APPROVED**
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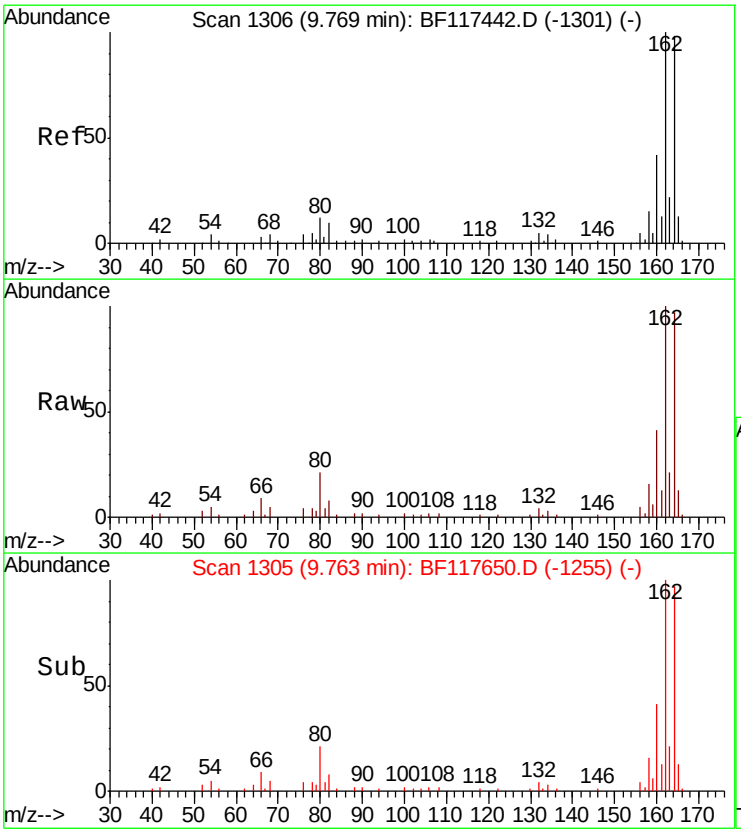
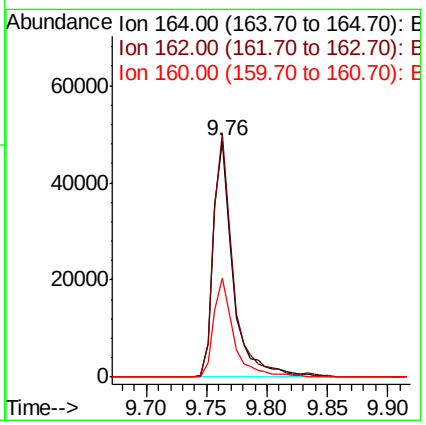
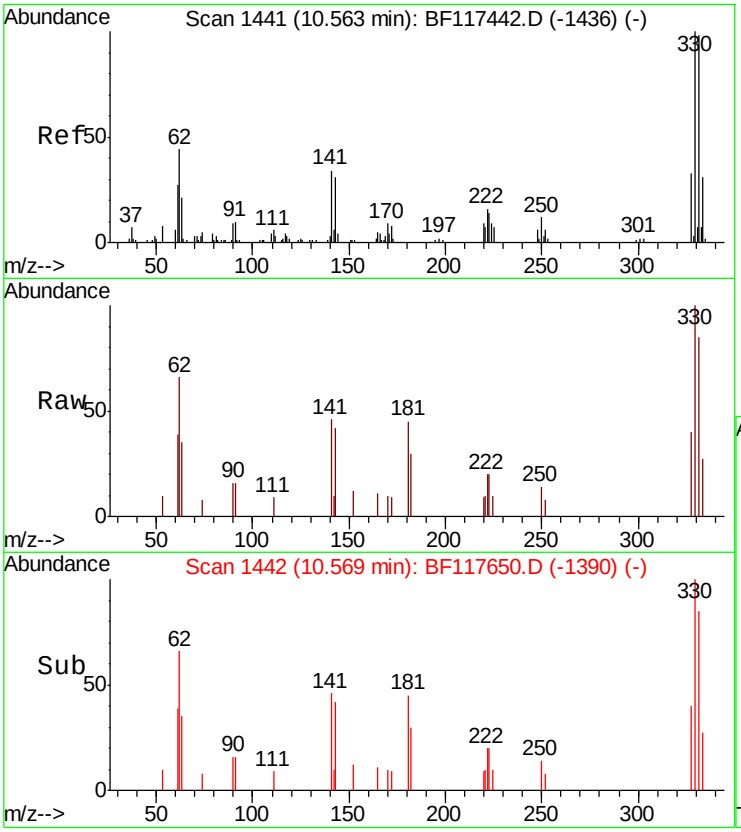



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion:164 Resp: 54547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.0 | 81.8 | 122.6 |
| 160 | 41.9 | 34.4 | 51.6 |

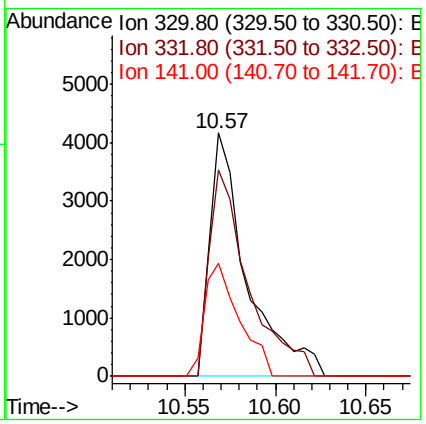





#42
2,4,6-Tribromophenol
Concen: 12.592 ng
RT: 10.57 min Scan# 1442
Delta R.T. 0.01 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion:330 Resp: 5943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 89.6 | 78.5 | 117.7 |
| 141 | 43.6 | 37.0 | 55.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
155-40-(0-1.1)DL

**Manual Integrations APPROVED**
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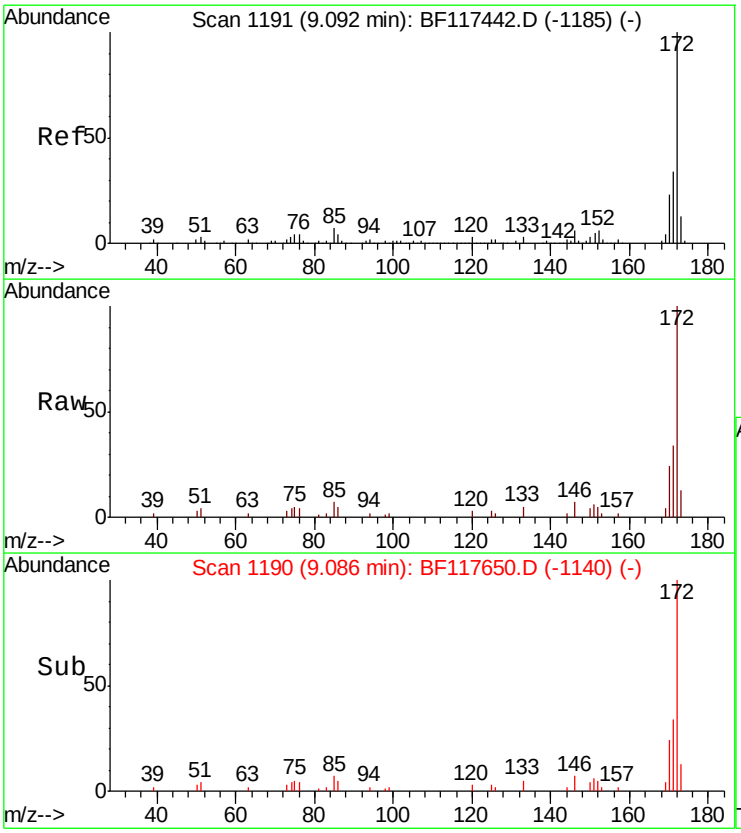
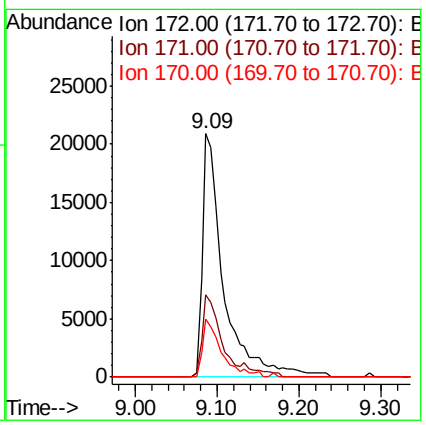
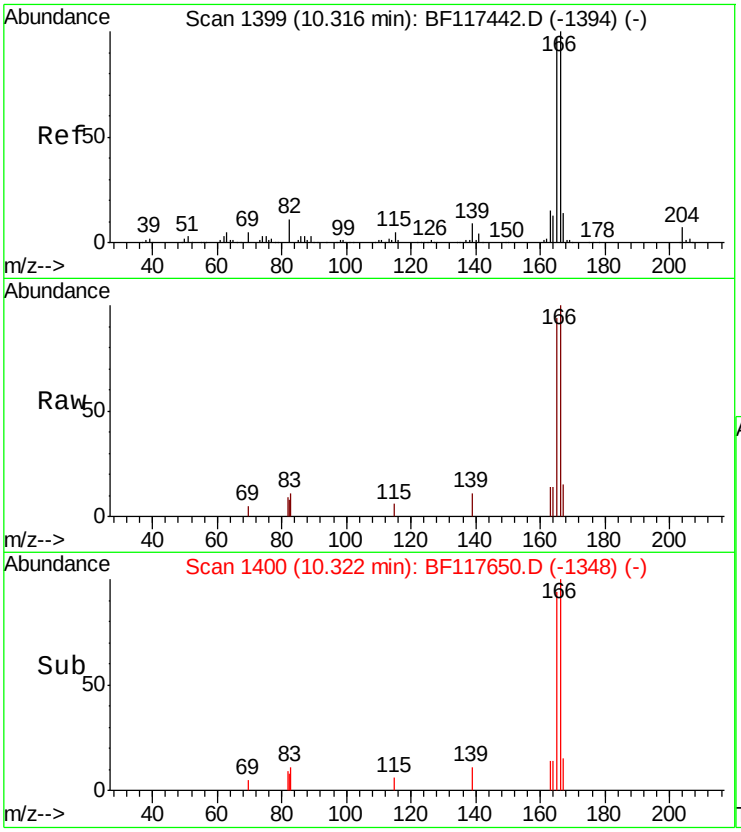



#45
2-Fluorobiphenyl
Concen: 9.811 ng
RT: 9.09 min Scan# 1190
Delta R.T. -0.01 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion:172 Resp: 37983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.0 | 27.5 | 41.3 |
| 170 | 24.1 | 18.6 | 27.8 |

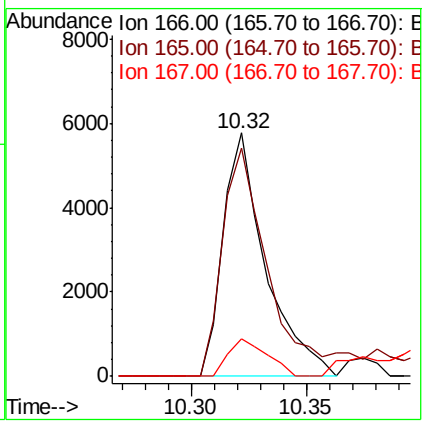





#58
Fluorene
Concen: 2.011 ng
RT: 10.32 min Scan# 1400
Delta R.T. 0.01 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion:166 Resp: 7392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 93.5 | 77.6 | 116.4 |
| 167 | 15.2 | 11.0 | 16.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
155-40-(0-1.1)DL

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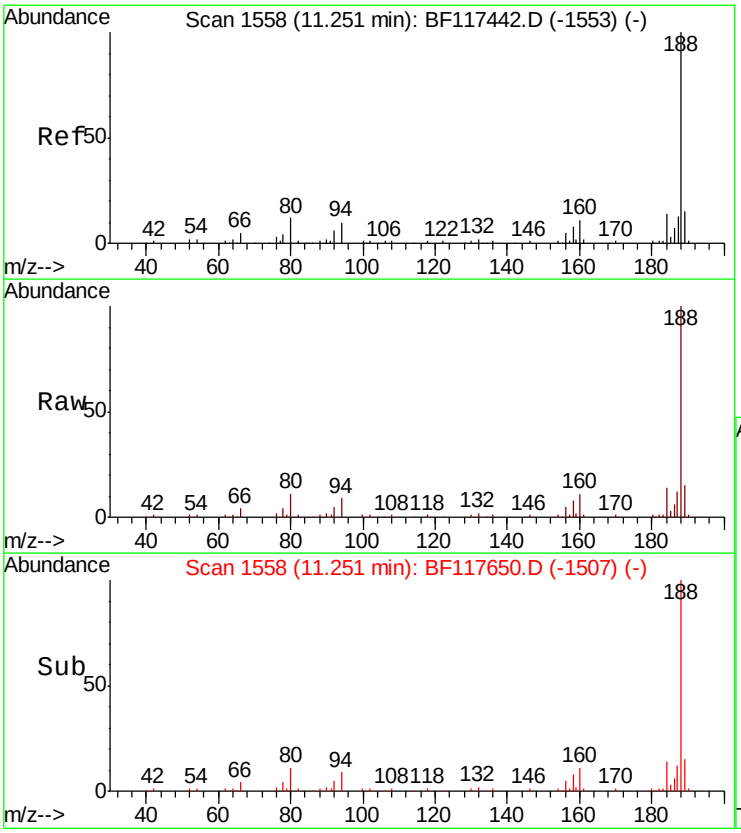
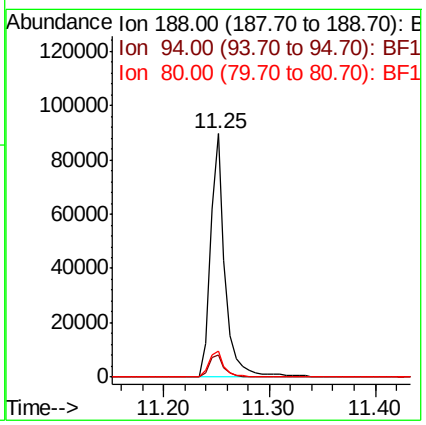
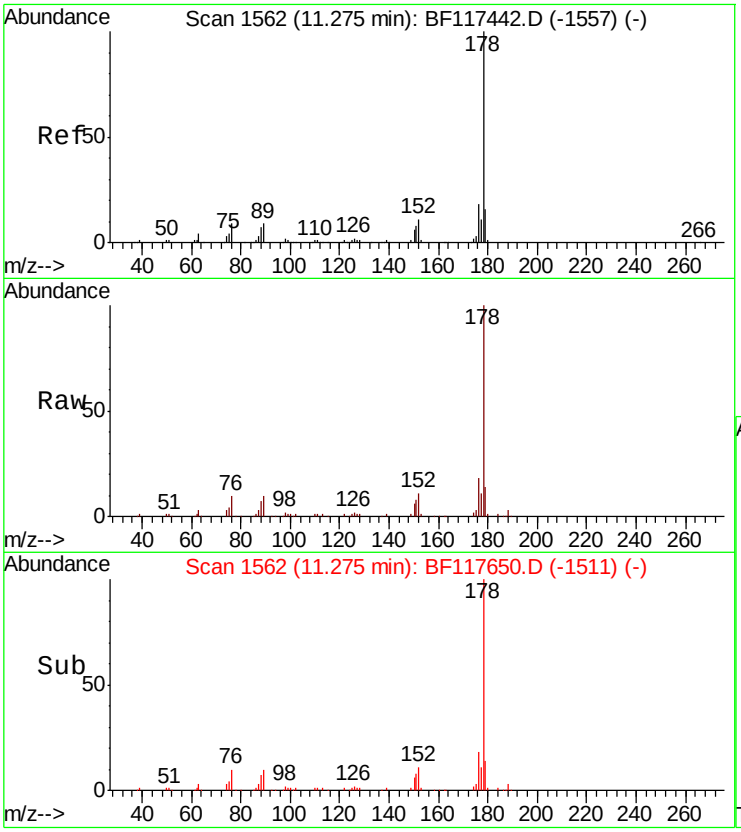



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.25 min Scan# 1558
Delta R.T. 0.00 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion:188 Resp: 86270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.0 | 8.0 | 12.0 |
| 80 | 10.7 | 9.5 | 14.3 |






#71
Phenanthrene
Concen: 26.854 ng
RT: 11.27 min Scan# 1562
Delta R.T. 0.00 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion:178 Resp: 134520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 17.7 | 14.6 | 22.0 |
| 179 | 14.3 | 12.6 | 19.0 |

**Instrument :**
BNA_F
**ClientSampleId :**
155-40-(0-1.1)DL

**Manual Integrations APPROVED**
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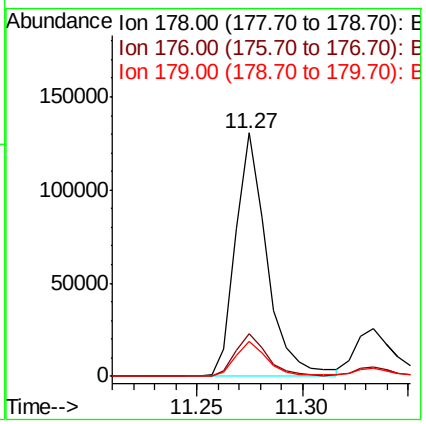
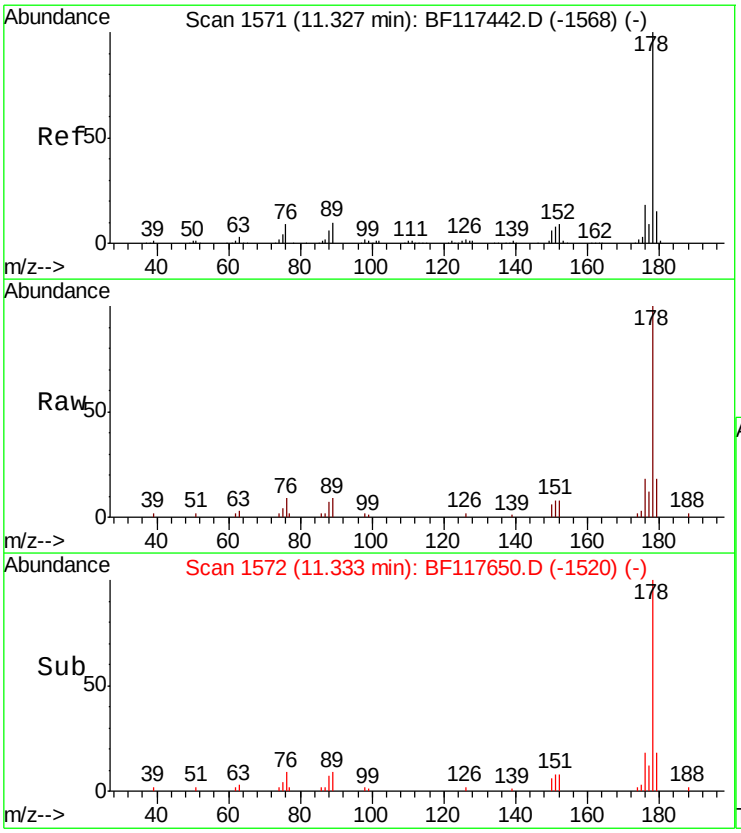
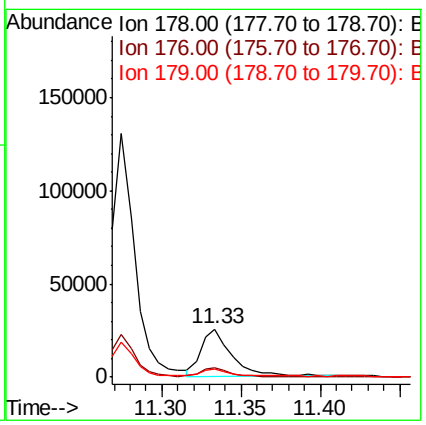


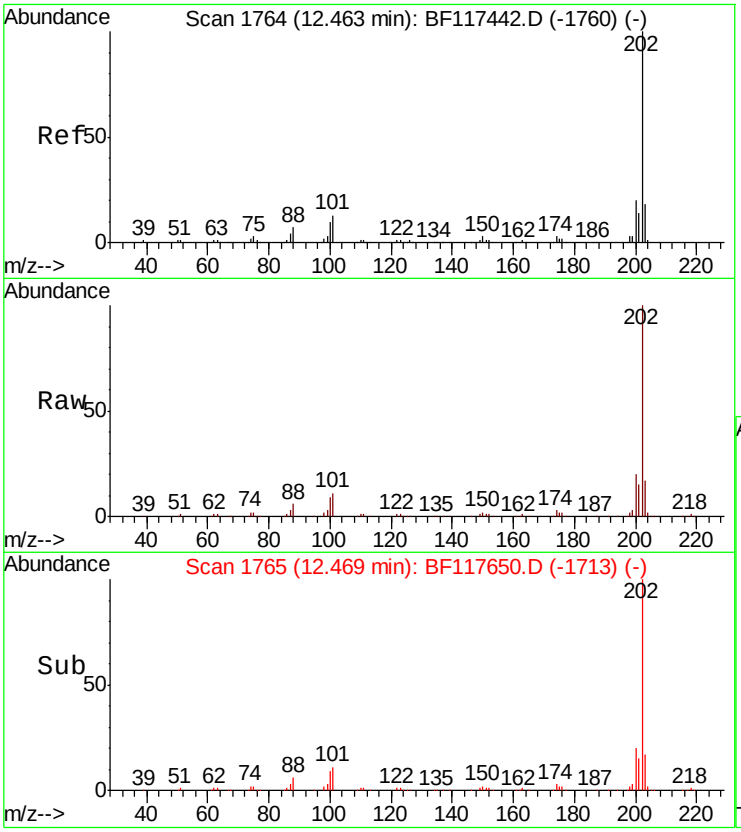




#72
Anthracene
Concen: 6.702 ng
RT: 11.33 min Scan# 1572
Delta R.T. 0.01 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion:178 Resp: 34448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.4 | 14.7 | 22.1 |
| 179 | 17.9 | 12.2 | 18.2 |

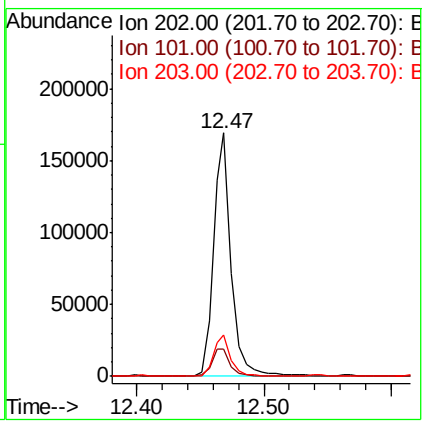





#75
Fluoranthene
Concen: 32.848 ng
RT: 12.47 min Scan# 1765
Delta R.T. 0.01 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion:202 Resp: 164724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.4 | 0.0 | 32.7 |
| 203 | 17.2 | 0.0 | 37.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
155-40-(0-1.1)DL

**Manual Integrations APPROVED**
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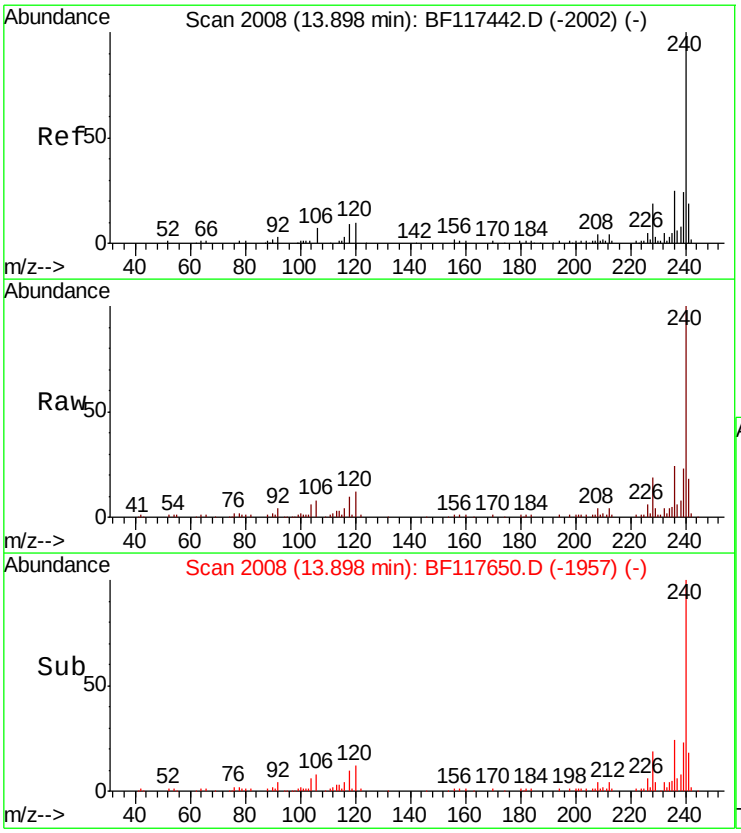
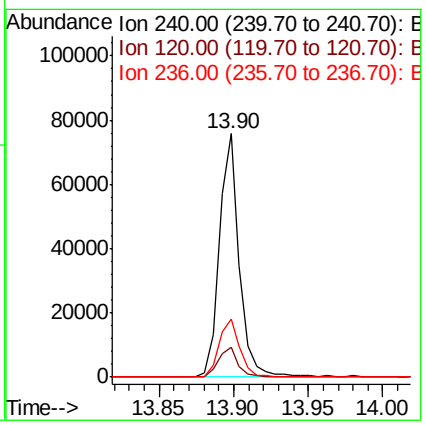
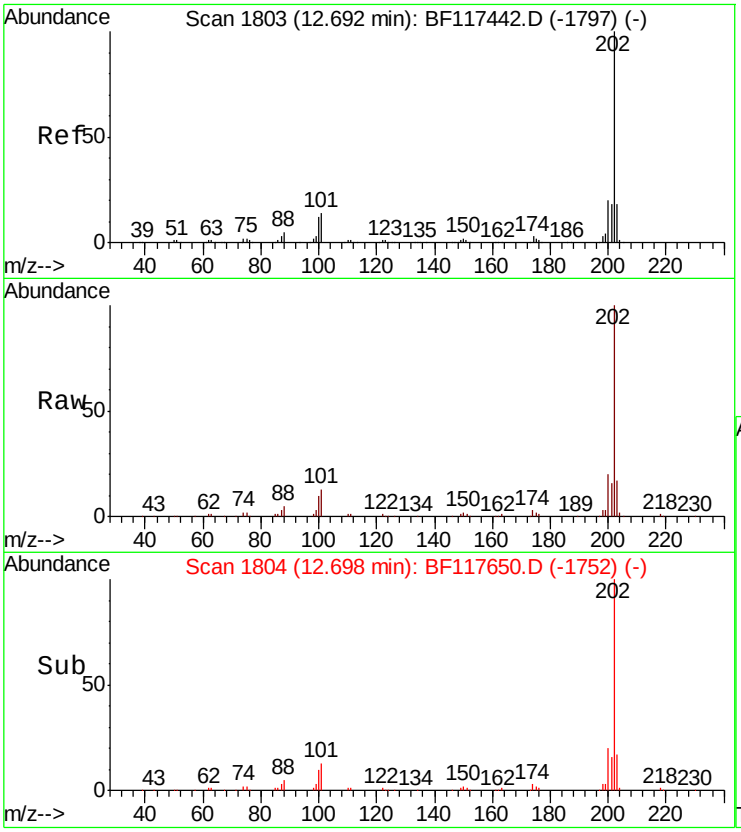



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.90 min Scan# 2008
Delta R.T. 0.00 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion:240 Resp: 70794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.0 | 8.4 | 12.6 |
| 236 | 24.0 | 20.0 | 30.0 |

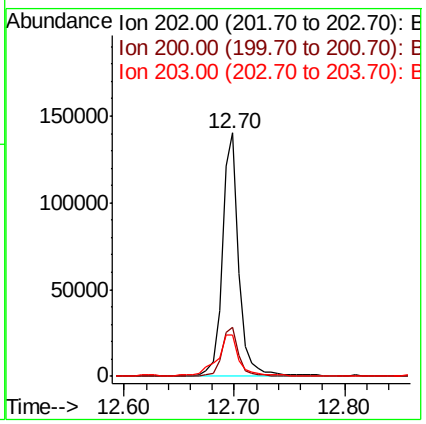





#78
Pyrene
Concen: 24.175 ng
RT: 12.70 min Scan# 1804
Delta R.T. 0.01 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion:202 Resp: 147006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.0 | 16.2 | 24.2 |
| 203 | 17.1 | 14.0 | 21.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
155-40-(0-1.1)DL

**Manual Integrations APPROVED**
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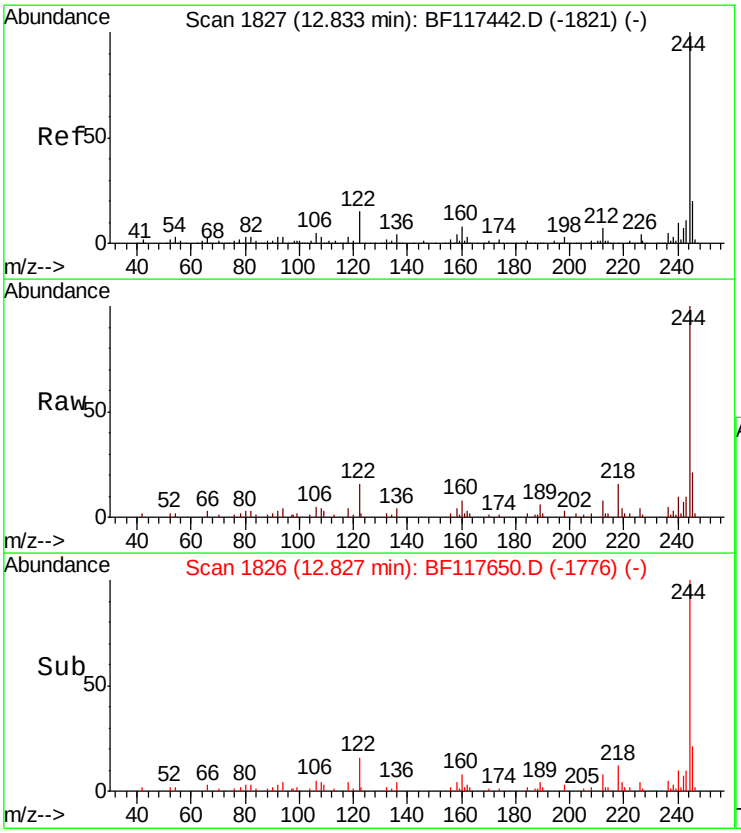
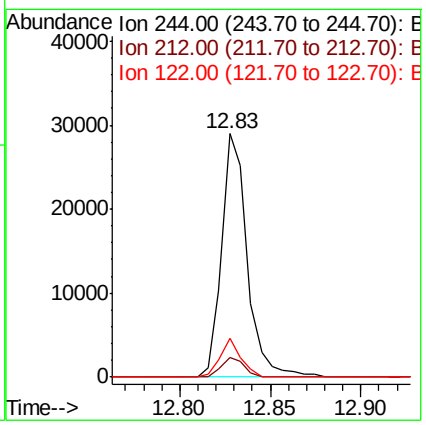
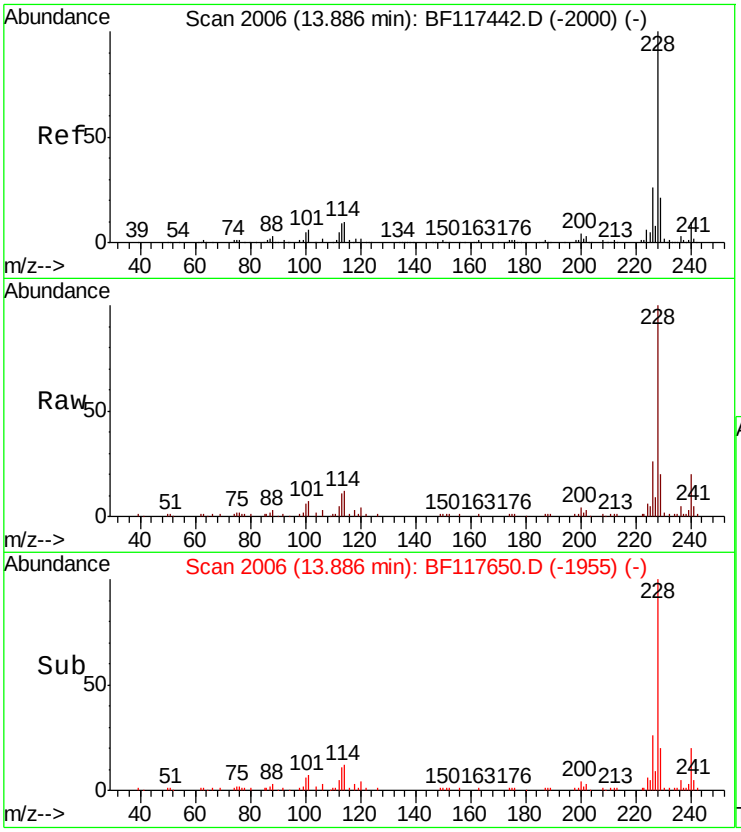



#79
Terphenyl-d14
Concen: 6.576 ng
RT: 12.83 min Scan# 1826
Delta R.T. -0.01 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion:244 Resp: 28542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 8.2 | 5.8 | 8.6 |
| 122 | 15.7 | 11.8 | 17.8 |

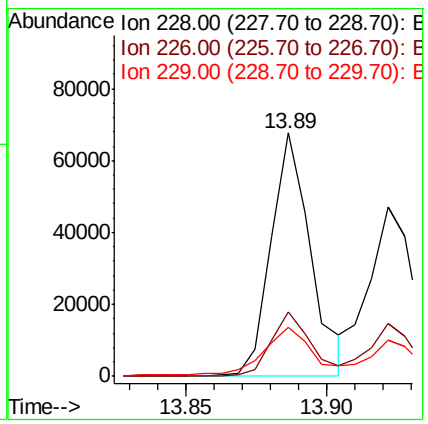





#81
Benzo(a)anthracene
Concen: 13.857 ng
RT: 13.89 min Scan# 2006
Delta R.T. 0.00 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion:228 Resp: 66174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 26.4 | 21.0 | 31.4 |
| 229 | 20.1 | 16.4 | 24.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
155-40-(0-1.1)DL

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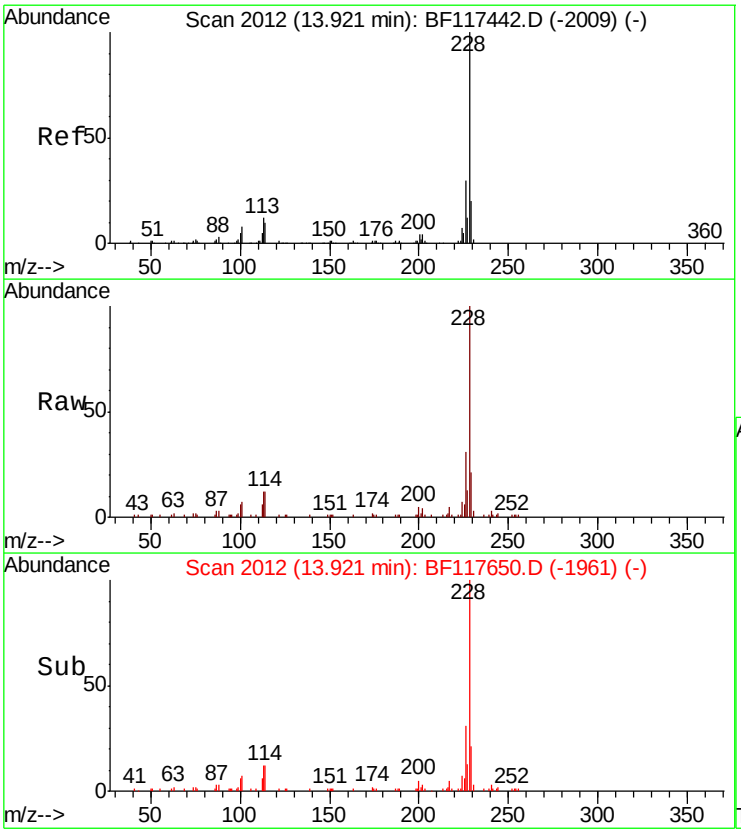
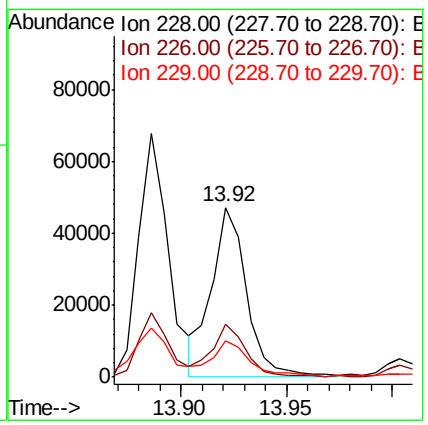
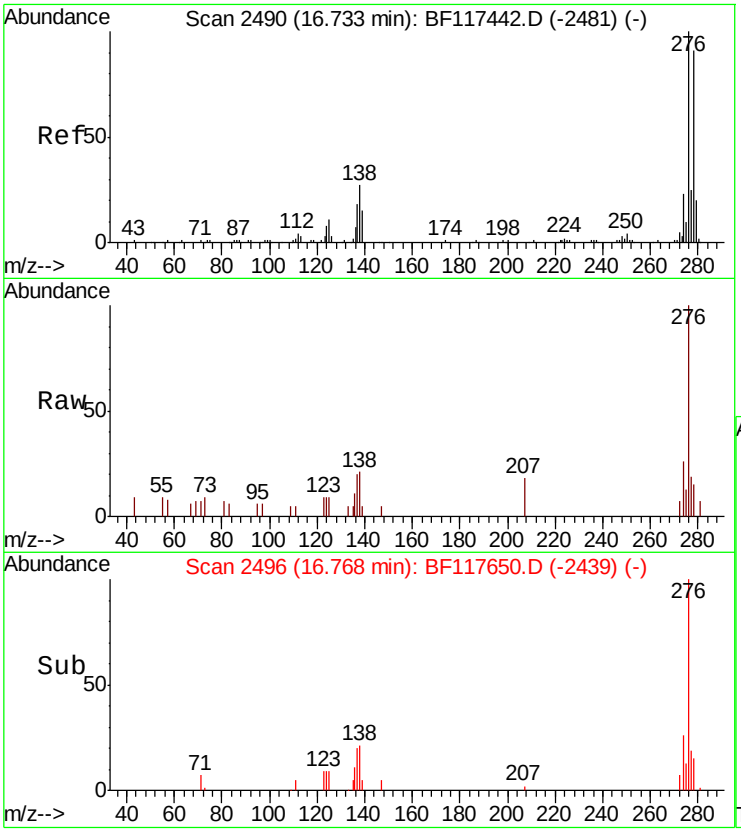



#83
Chrysene
Concen: 11.780 ng
RT: 13.92 min Scan# 2012
Delta R.T. 0.00 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion:228 Resp: 55131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.8 | 23.9 | 35.9 |
| 229 | 21.1 | 15.8 | 23.6 |

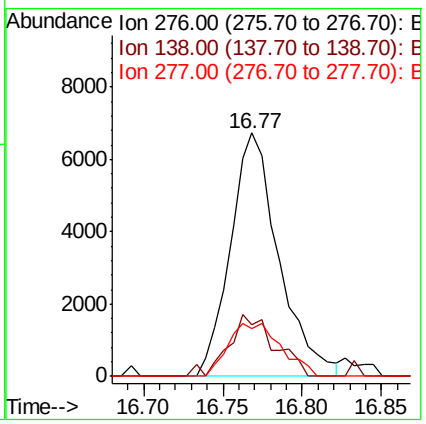





#86
Indeno(1,2,3-cd)pyrene
Concen: 4.068 ng
RT: 16.77 min Scan# 2496
Delta R.T. 0.04 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion:276 Resp: 14216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.2 | 21.8 | 32.8 |
| 277 | 23.8 | 20.0 | 30.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
155-40-(0-1.1)DL

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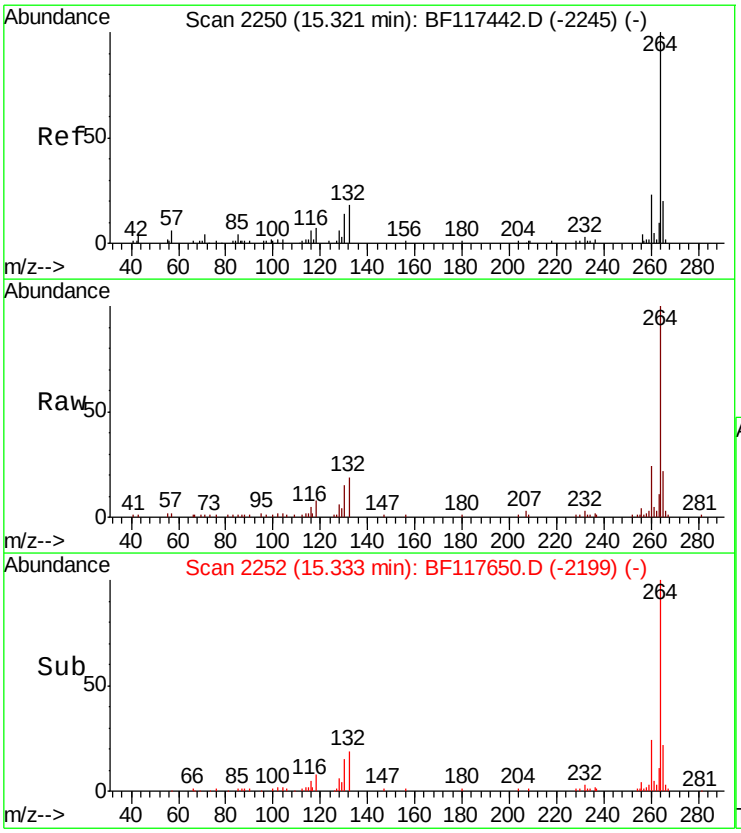
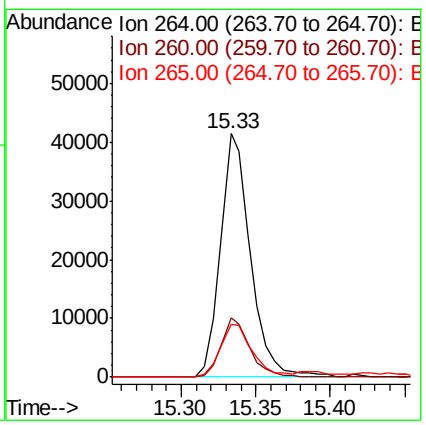
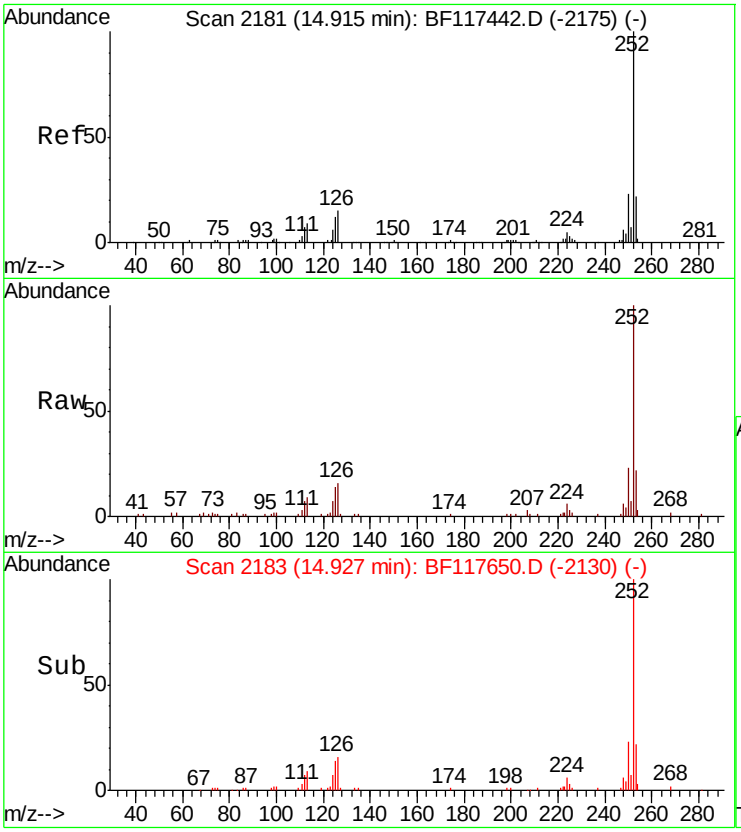



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.33 min Scan# 2252
Delta R.T. 0.01 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion:264 Resp: 58695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.4 | 18.4 | 27.6 |
| 265 | 21.7 | 16.1 | 24.1 |

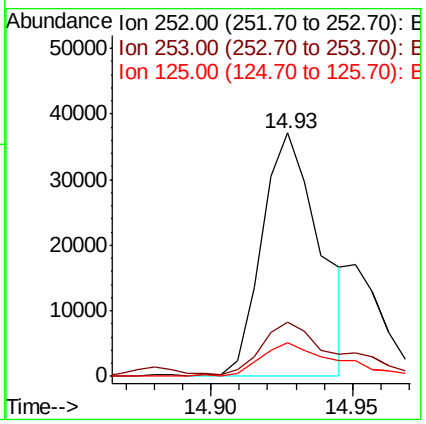





#88
Benzo(b)fluoranthene
Concen: 15.161 ng m
RT: 14.93 min Scan# 2183
Delta R.T. 0.01 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion:252 Resp: 52547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.0 | 17.8 | 26.6 |
| 125 | 14.1 | 9.9 | 14.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
155-40-(0-1.1)DL

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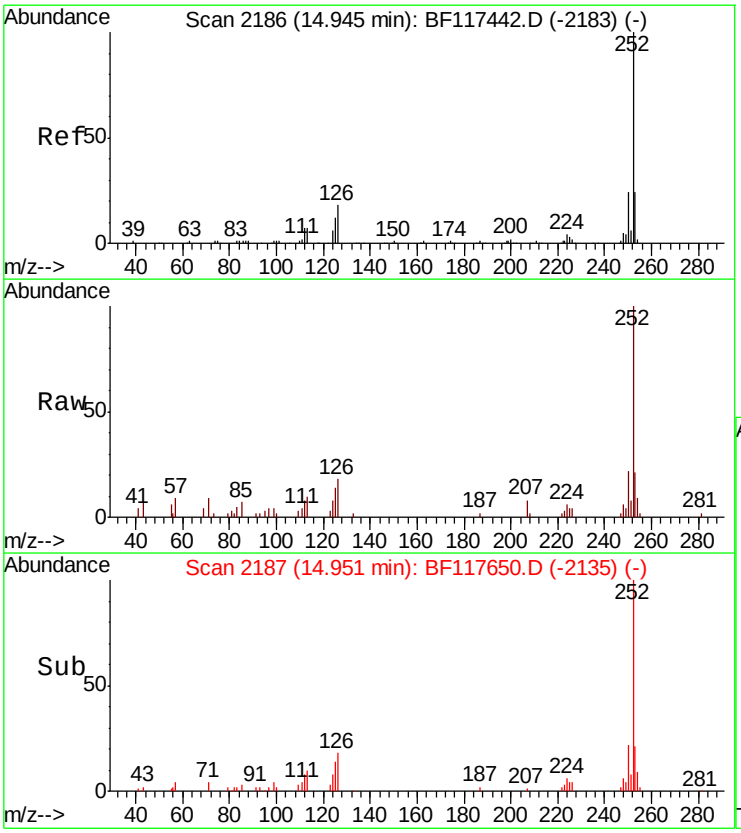
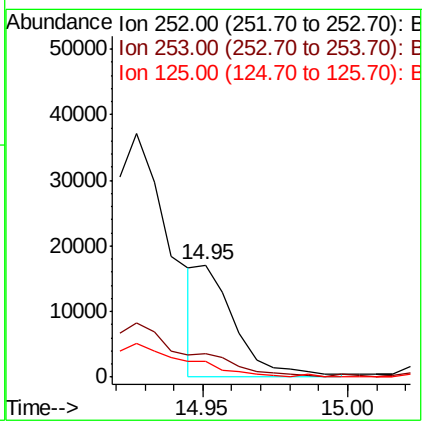
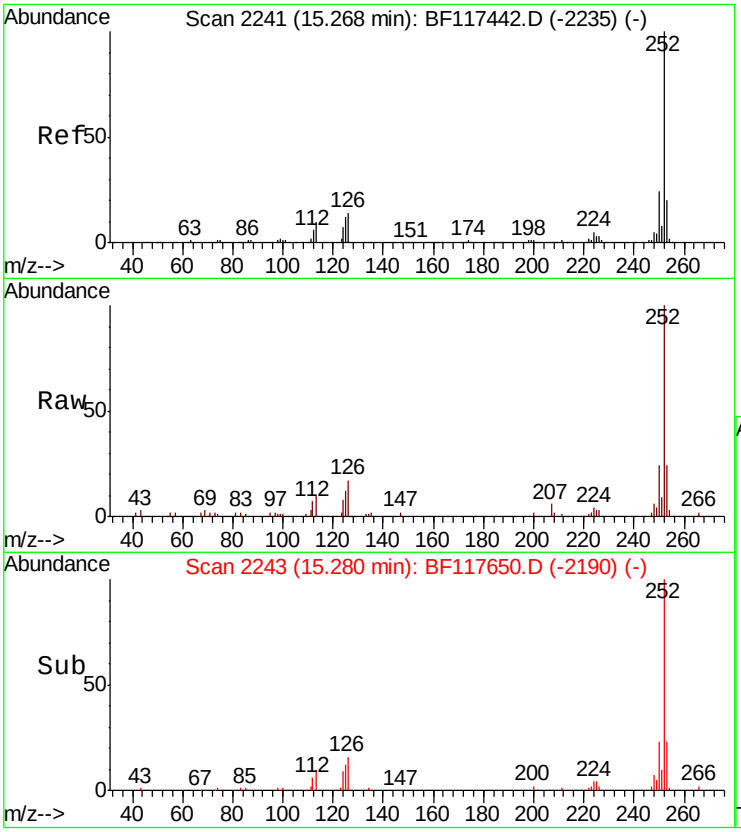



#89
Benzo(k)fluoranthene
Concen: 4.352 ng m
RT: 14.95 min Scan# 2187
Delta R.T. 0.01 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion:252 Resp: 15459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 20.9 | 18.0 | 27.0 |
| 125 | 14.2 | 8.9 | 13.3# |

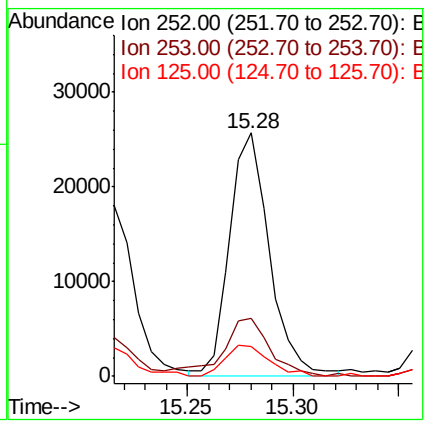





#90
Benzo(a)pyrene
Concen: 10.697 ng
RT: 15.28 min Scan# 2243
Delta R.T. 0.01 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion:252 Resp: 33709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.9 | 16.3 | 24.5 |
| 125 | 12.4 | 9.2 | 13.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
155-40-(0-1.1)DL

**Manual Integrations APPROVED**
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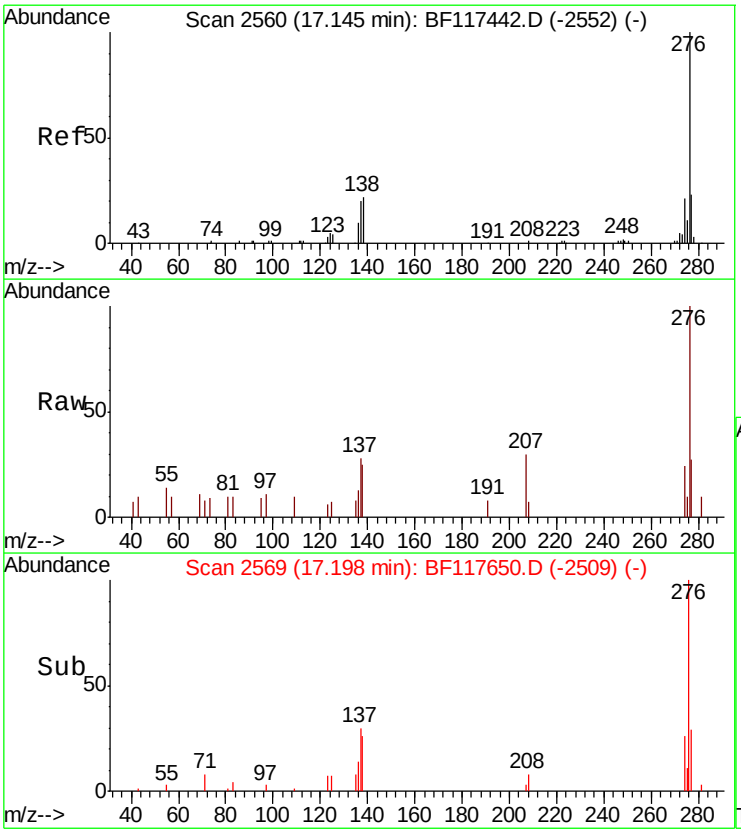


#92
Benzo(g,h,i)perylene
Concen: 4.845 ng
RT: 17.20 min Scan# 2569
Delta R.T. 0.05 min
Lab File: BF117650.D
Acq: 31 Oct 2019 9:09

Tgt Ion:276 Resp: 12491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 26.9 | 18.4 | 27.6 |
| 138 | 24.6 | 17.8 | 26.6 |