Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\
Data File : BF103766.D
Acq On : 19 Mar 2018 20:03
Operator : JU/SJ
Sample : J1971-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
ES-6-SA-2-EW@3

**Manual Integrations APPROVED**
Sohil
3/20/2018 6:26:42 PM

Quant Time: Mar 20 01:41:19 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 15 18:31:53 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.97 | 152 | 163248 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.26 | 136 | 644516 | 20.00 | ng | | 0.00 |
| 38) Acenaphthene-d10 | 10.02 | 164 | 291401 | 20.00 | ng | | 0.00 |
| 63) Phenanthrene-d10 | 11.50 | 188 | 493691 | 20.00 | ng | | 0.00 |
| 75) Chrysene-d12 | 14.16 | 240 | 327049 | 20.00 | ng | | 0.00 |
| 86) Perylene-d12 | 15.70 | 264 | 285789 | 20.00 | ng | | 0.02 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.60 | 112 | 1370174 | 127.66 | ng | | 0.02 |
| 7) Phenol-d6 | 6.60 | 99 | 1679611 | 127.91 | ng | | 0.01 |
| 23) Nitrobenzene-d5 | 7.54 | 82 | 1026216 | 111.04 | ng | | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.81 | 330 | 378581 | 151.10 | ng | | 0.01 |
| 44) 2-Fluorobiphenyl | 9.33 | 172 | 1450947 | 79.43 | ng | | 0.00 |
| 78) Terphenyl-d14 | 13.10 | 244 | 1304463 | 92.58 | ng | | 0.01 |
| **Target Compounds** | | | | | | | Qvalue |
| 10) Phenol | 6.61 | 94 | 53159 | 3.810 | ng | | 95 |
| 49) Dimethylphthalate | 9.72 | 163 | 145514 | 6.545 | ng | | 99 |
| 74) Fluoranthene | 12.72 | 202 | 112161 | 4.031 | ng | | 99 |
| 77) Pyrene | 12.96 | 202 | 91379 | 3.805 | ng | | 98 |
| 80) Benzo(a)anthracene | 14.14 | 228 | 44009 | 2.126 | ng | | 94 |
| 82) Chrysene | 14.18 | 228 | 47792 | 2.422 | ng | | 97 |
| 85) Indeno(1,2,3-cd)pyrene | 17.26 | 276 | 39060 | 2.266 | ng | | 94 |
| 87) Benzo(b)fluoranthene | 15.23 | 252 | 79116m | 4.382 | ng | | |
| 89) Benzo(a)pyrene | 15.63 | 252 | 41604 | 2.540 | ng | # | 91 |
| 91) Benzo(g,h,i)perylene | 17.73 | 276 | 35252 | 2.555 | ng | | 93 |

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

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Quant Time: Mar 20 01:41:19 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
ES-6-SA-2-EW@3

**Manual Integrations APPROVED**
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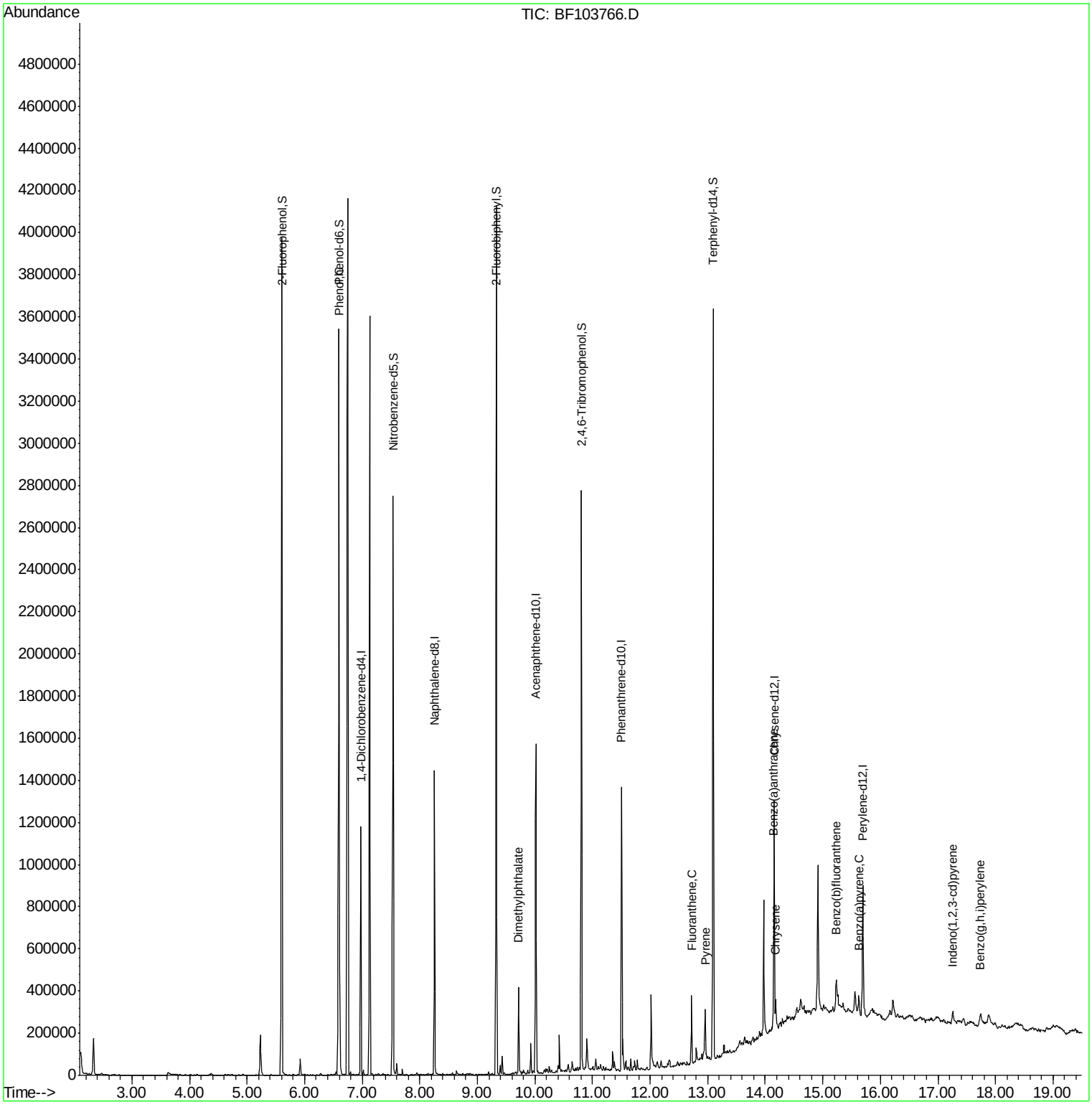
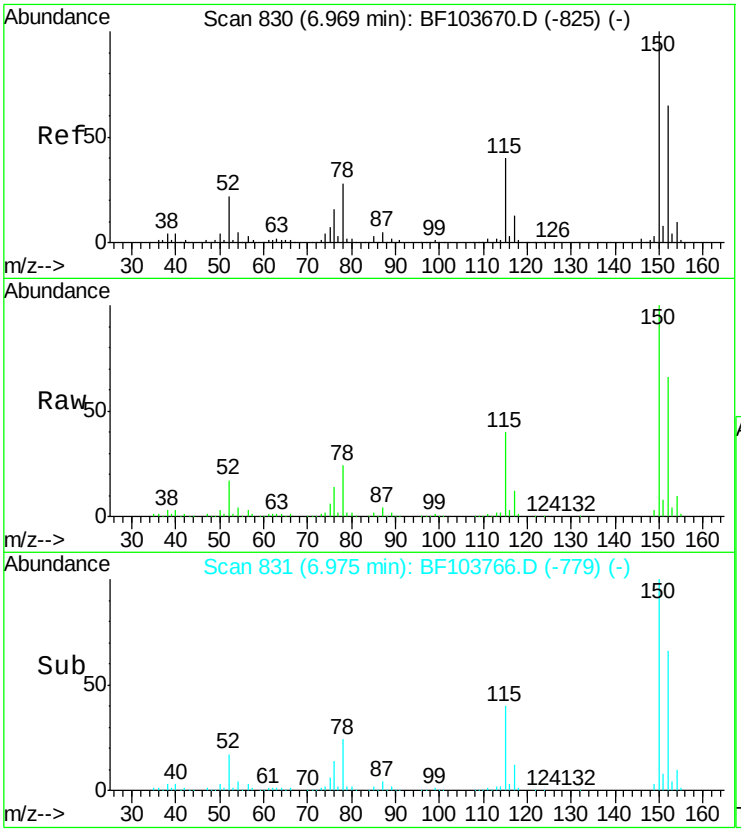
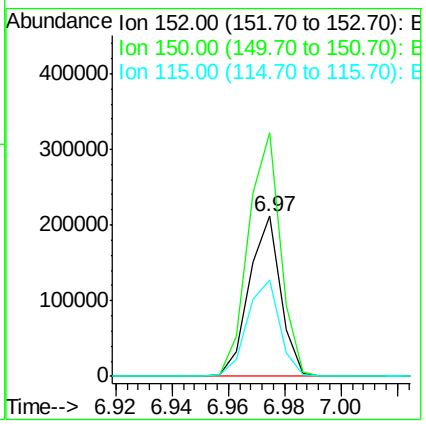





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 831
Delta R.T. 0.01 min
Lab File: BF103766.D
Acq: 19 Mar 2018 20:03

Tgt Ion:152 Resp: 163248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.4 | 124.6 | 186.8 |
| 115 | 60.3 | 50.1 | 75.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
ES-6-SA-2-EW@3

**Manual Integrations APPROVED**
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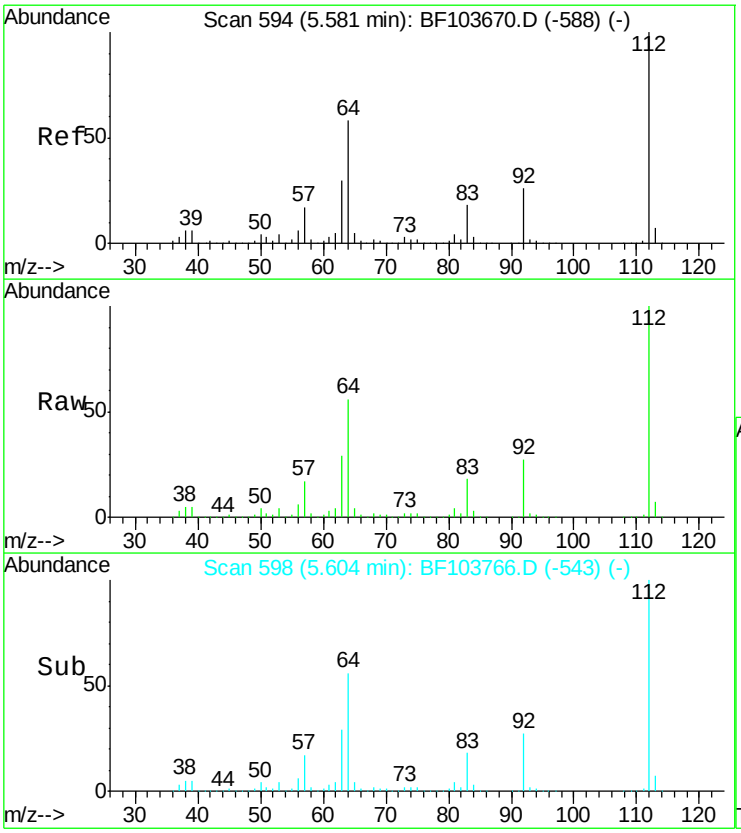
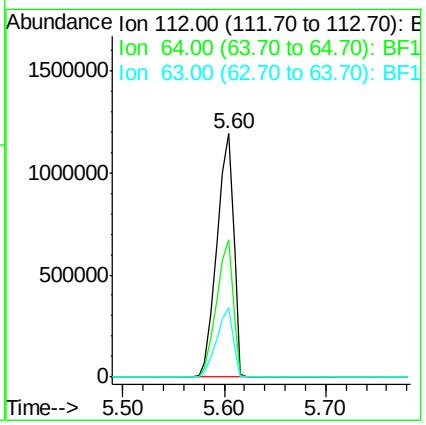
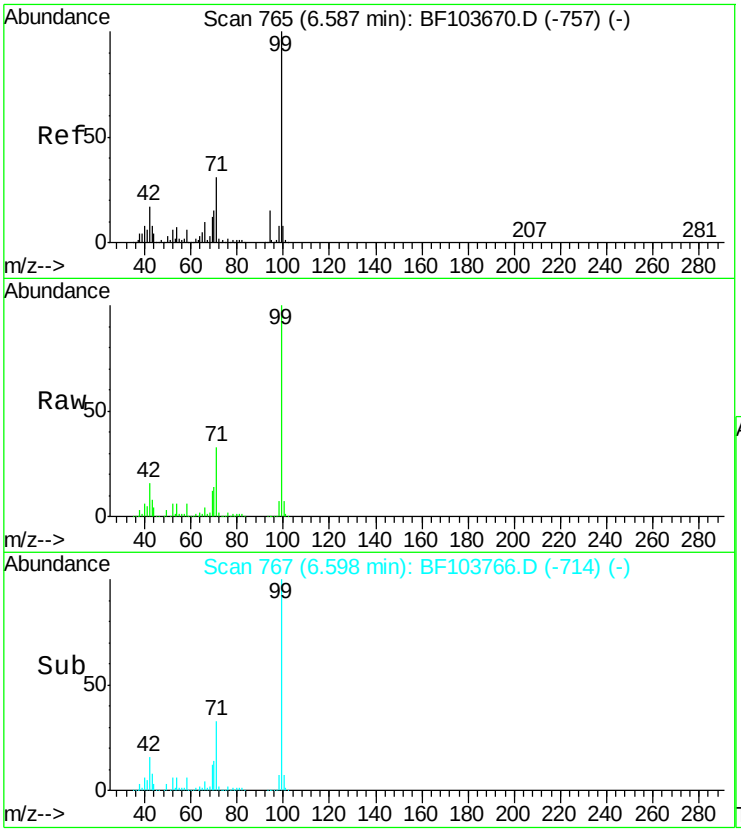



#5
2-Fluorophenol
Concen: 127.660 ng
RT: 5.60 min Scan# 598
Delta R.T. 0.02 min
Lab File: BF103766.D
Acq: 19 Mar 2018 20:03

Tgt Ion:112 Resp: 1370174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 56.4 | 47.9 | 71.9 |
| 63 | 28.5 | 23.7 | 35.5 |

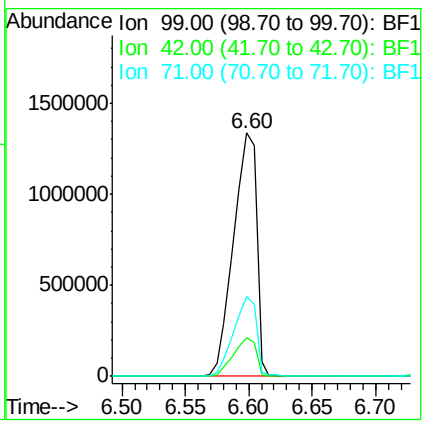





#7
Phenol-d6
Concen: 127.911 ng
RT: 6.60 min Scan# 767
Delta R.T. 0.01 min
Lab File: BF103766.D
Acq: 19 Mar 2018 20:03

Tgt Ion: 99 Resp: 1679611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 15.8 | 14.5 | 21.7 |
| 71 | 32.8 | 25.4 | 38.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
ES-6-SA-2-EW@3

**Manual Integrations APPROVED**
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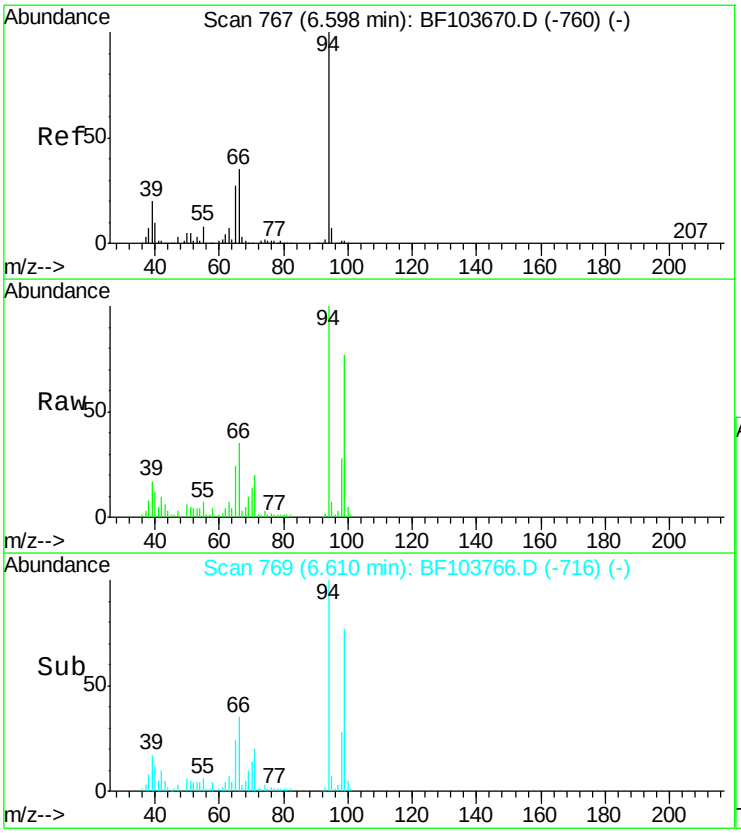
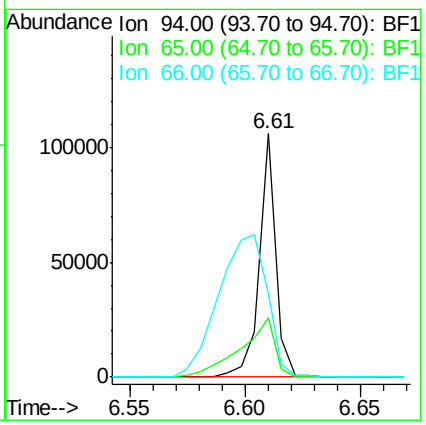
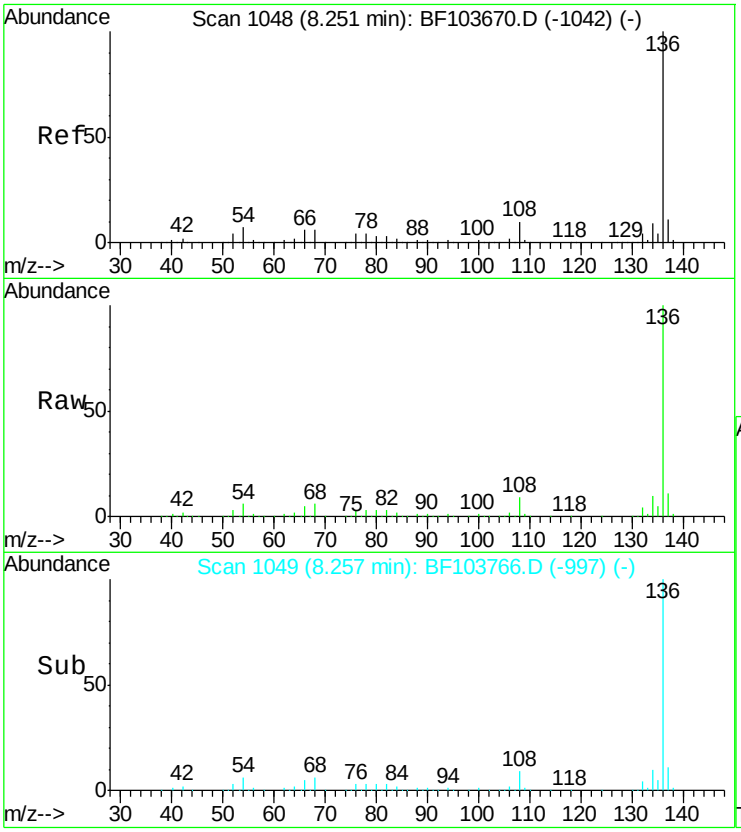



#10
Phenol
Concen: 3.810 ng
RT: 6.61 min Scan# 769
Delta R.T. 0.01 min
Lab File: BF103766.D
Acq: 19 Mar 2018 20:03

Tgt Ion: 94 Resp: 53159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 24.2 | 7.9 | 47.9 |
| 66 | 34.5 | 16.2 | 56.2 |

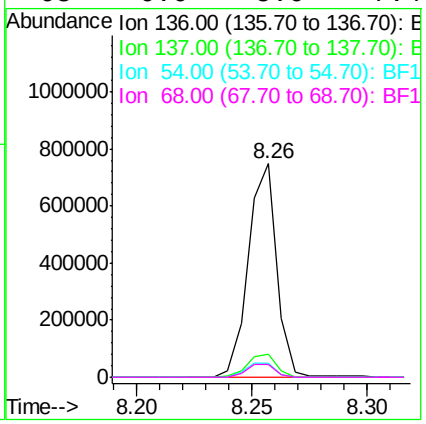





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.26 min Scan# 1049
Delta R.T. 0.01 min
Lab File: BF103766.D
Acq: 19 Mar 2018 20:03

Tgt Ion:136 Resp: 644516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.8 | 8.9 | 13.3 |
| 54 | 6.4 | 6.6 | 9.8# |
| 68 | 6.0 | 5.0 | 7.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
ES-6-SA-2-EW@3

**Manual Integrations APPROVED**
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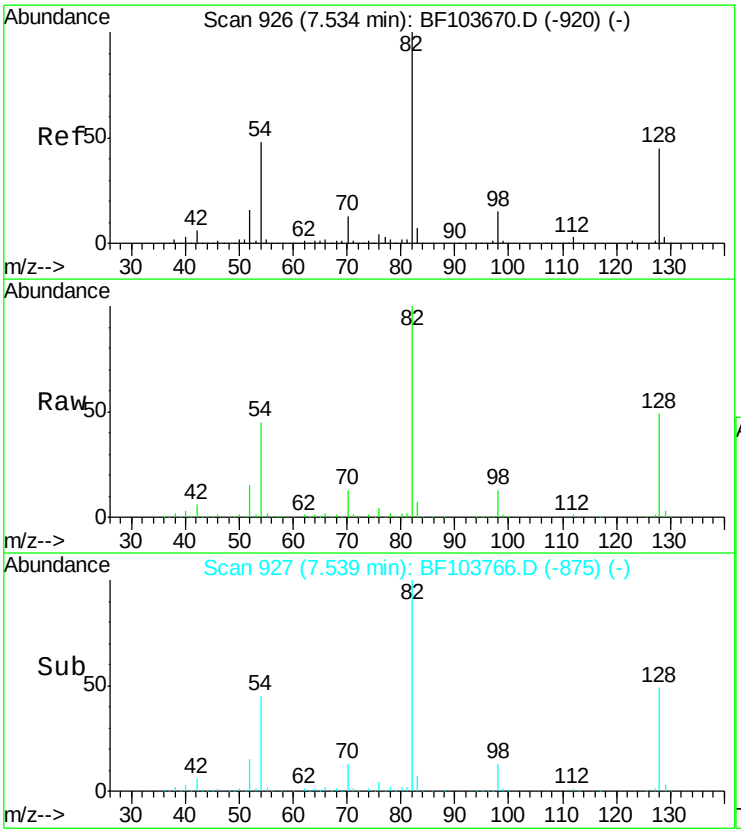
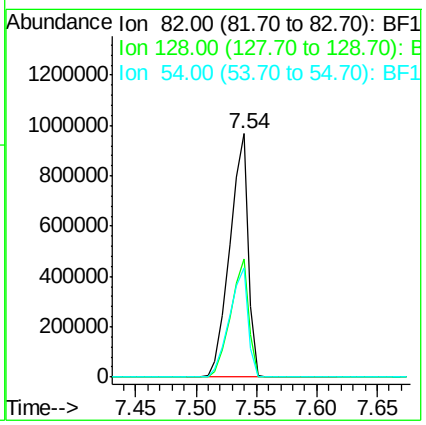
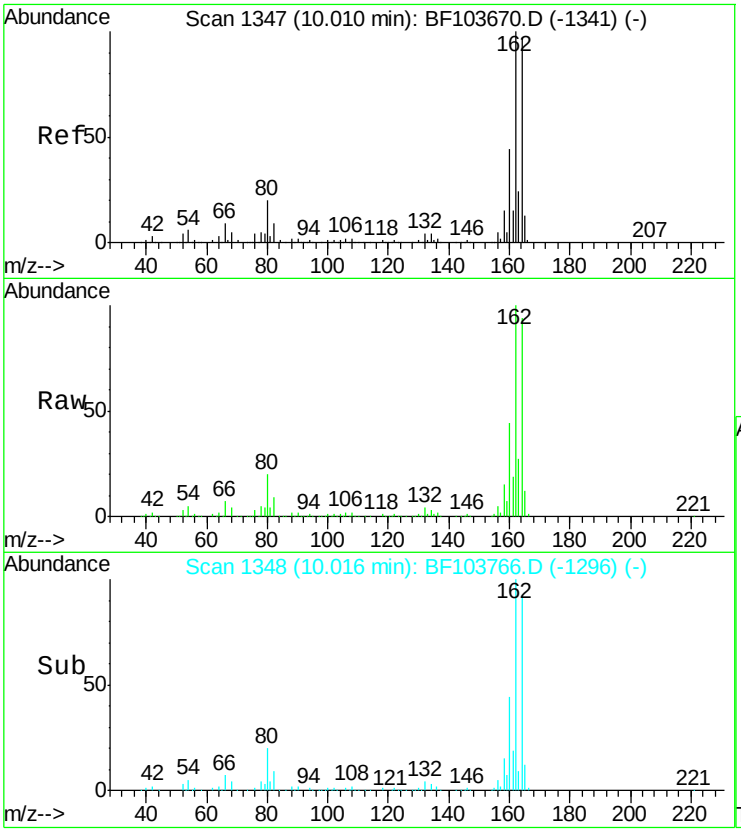



#23
Nitrobenzene-d5
Concen: 111.035 ng
RT: 7.54 min Scan# 927
Delta R.T. 0.01 min
Lab File: BF103766.D
Acq: 19 Mar 2018 20:03

Tgt Ion: 82 Resp: 1026216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.7 | 36.1 | 54.1 |
| 54 | 44.7 | 41.4 | 62.2 |

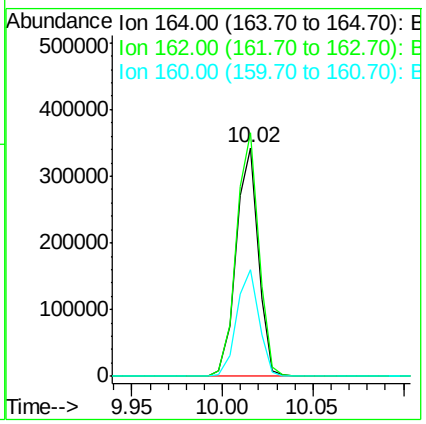





#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.02 min Scan# 1348
Delta R.T. 0.01 min
Lab File: BF103766.D
Acq: 19 Mar 2018 20:03

Tgt Ion:164 Resp: 291401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.5 | 86.1 | 129.1 |
| 160 | 46.9 | 38.3 | 57.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
ES-6-SA-2-EW@3

**Manual Integrations APPROVED**
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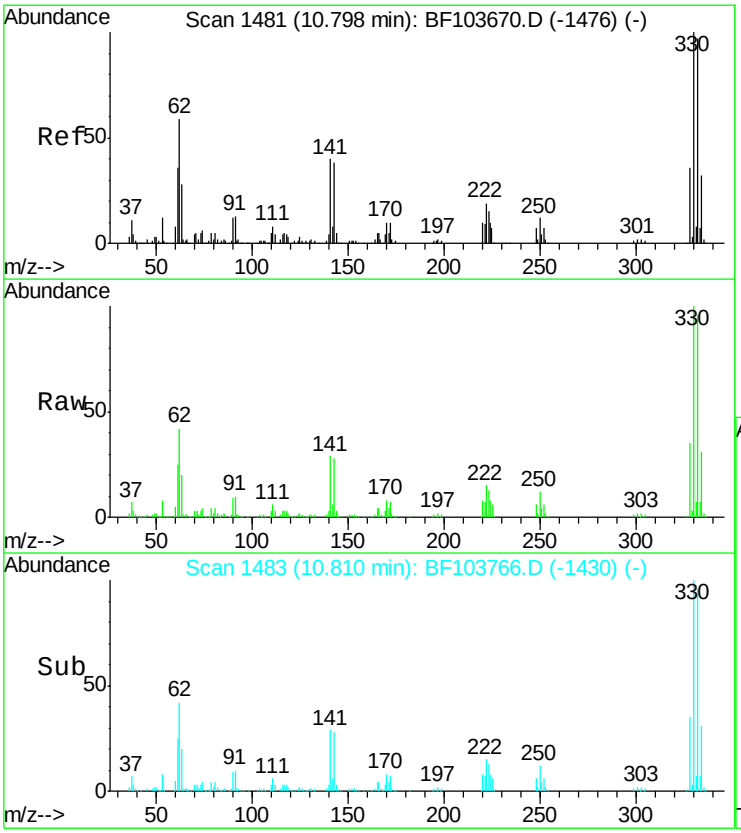
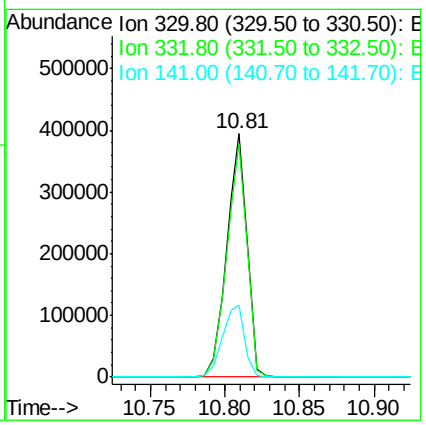
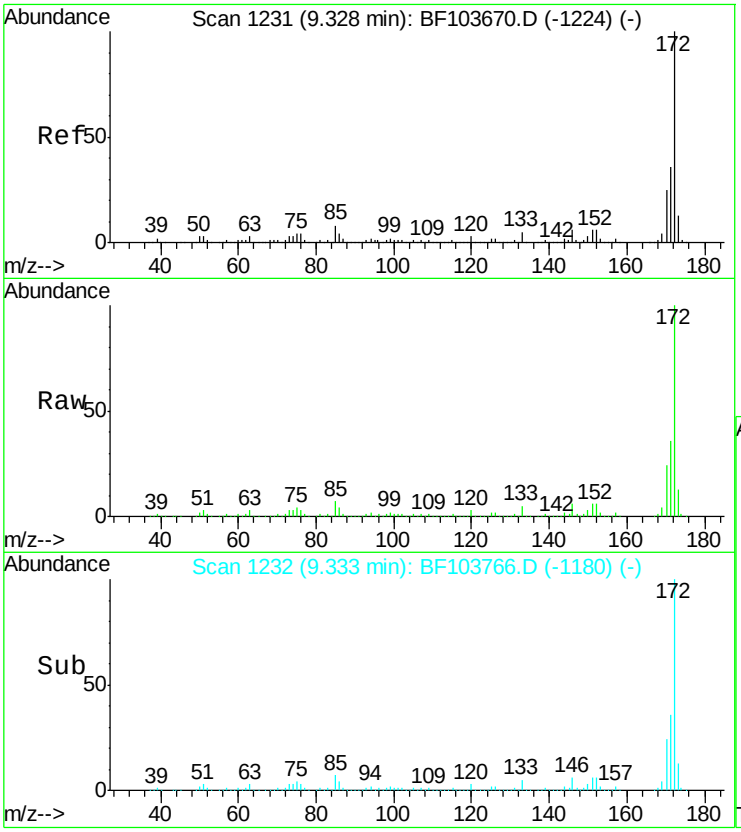



#41
2,4,6-Tribromophenol
Concen: 151.101 ng
RT: 10.81 min Scan# 1483
Delta R.T. 0.01 min
Lab File: BF103766.D
Acq: 19 Mar 2018 20:03

Tgt Ion:330 Resp: 378581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.8 | 77.0 | 115.6 |
| 141 | 32.4 | 29.9 | 44.9 |

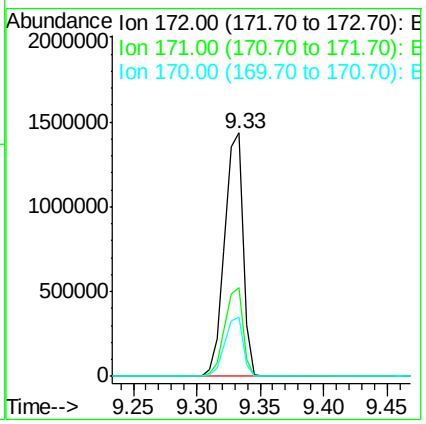





#44
2-Fluorobiphenyl
Concen: 79.426 ng
RT: 9.33 min Scan# 1232
Delta R.T. 0.01 min
Lab File: BF103766.D
Acq: 19 Mar 2018 20:03

Tgt Ion:172 Resp: 1450947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.5 | 29.7 | 44.5 |
| 170 | 24.1 | 19.6 | 29.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
ES-6-SA-2-EW@3

**Manual Integrations APPROVED**
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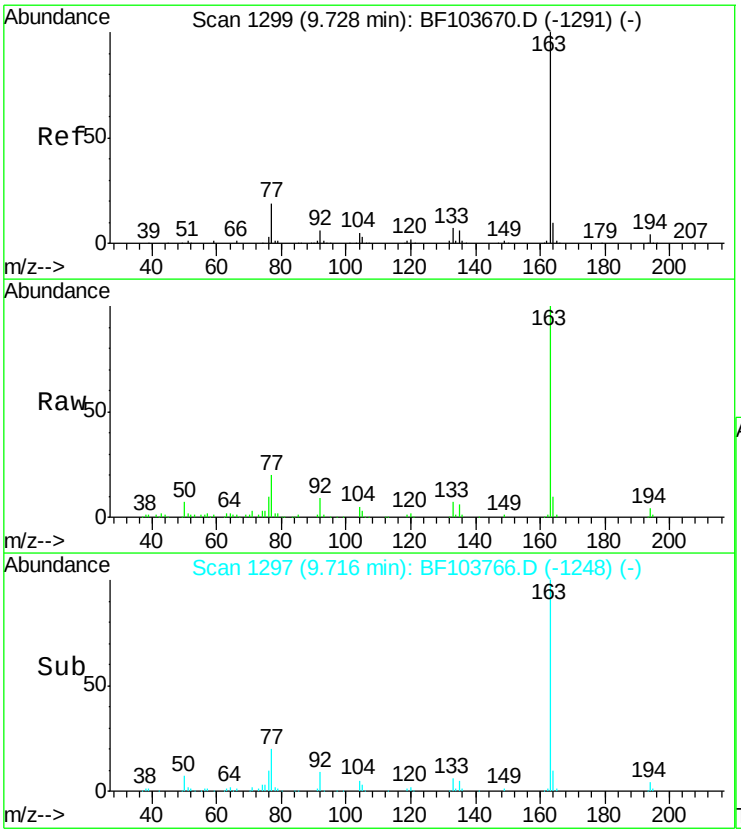
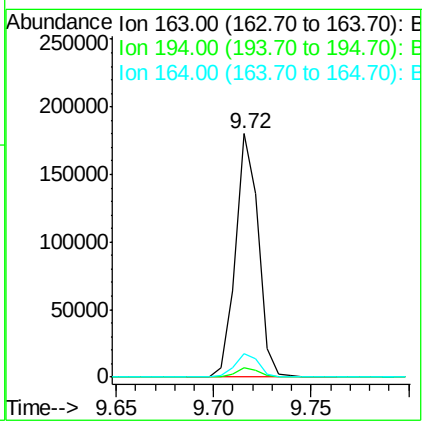
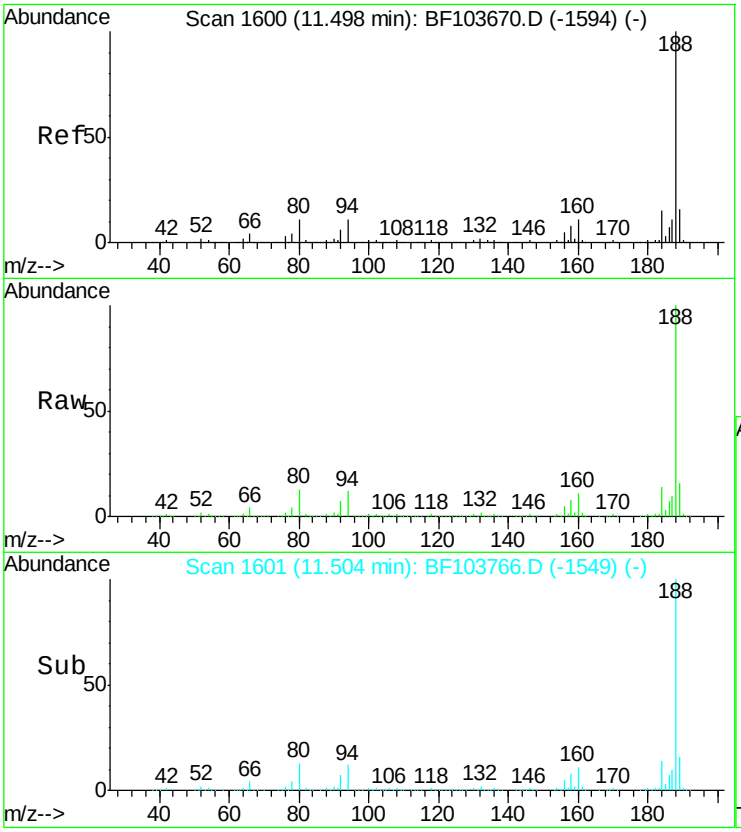



#49
Dimethylphthalate
Concen: 6.545 ng
RT: 9.72 min Scan# 1297
Delta R.T. -0.01 min
Lab File: BF103766.D
Acq: 19 Mar 2018 20:03

Tgt Ion:163 Resp: 145514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.7 | 2.7 | 4.1 |
| 164 | 9.9 | 8.2 | 12.2 |

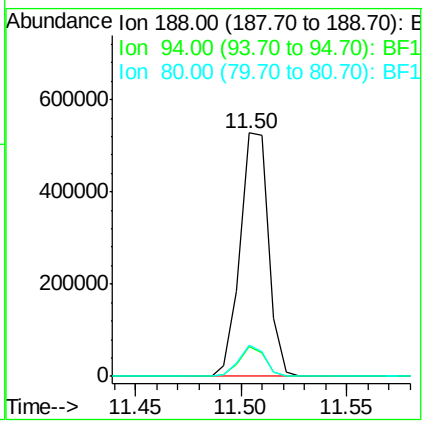





#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.50 min Scan# 1601
Delta R.T. 0.01 min
Lab File: BF103766.D
Acq: 19 Mar 2018 20:03

Tgt Ion:188 Resp: 493691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 12.2 | 8.5 | 12.7 |
| 80 | 12.9 | 9.2 | 13.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
ES-6-SA-2-EW@3

**Manual Integrations APPROVED**
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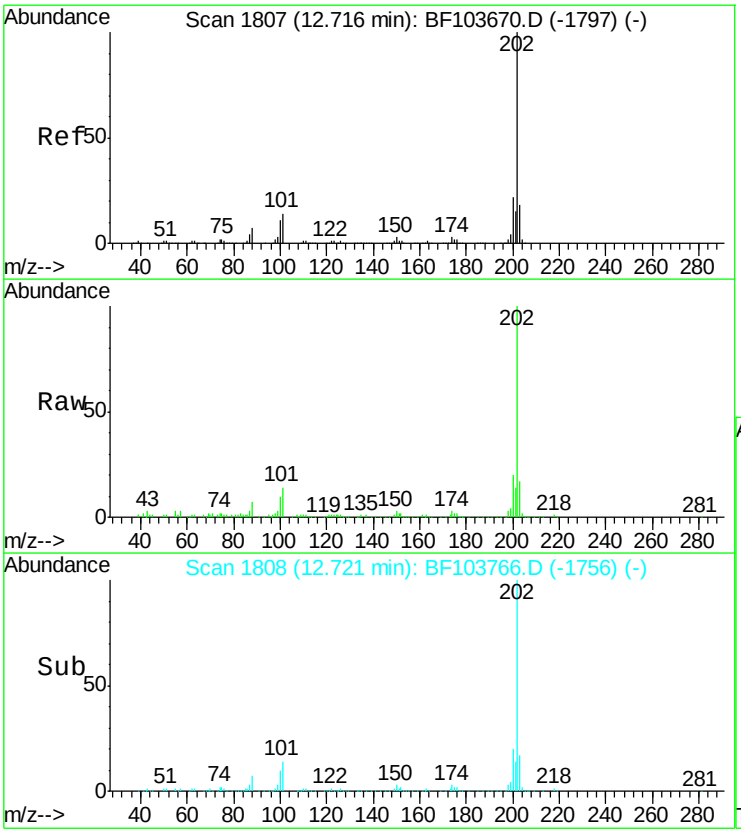
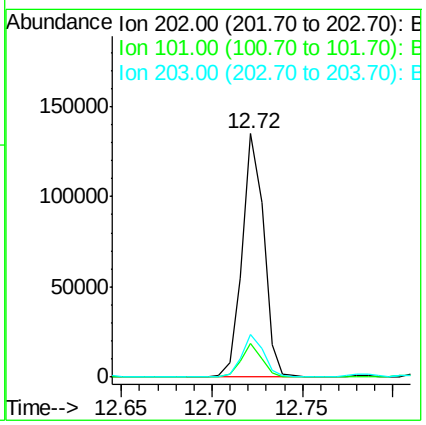
3/20/2018 6:26:42 PM

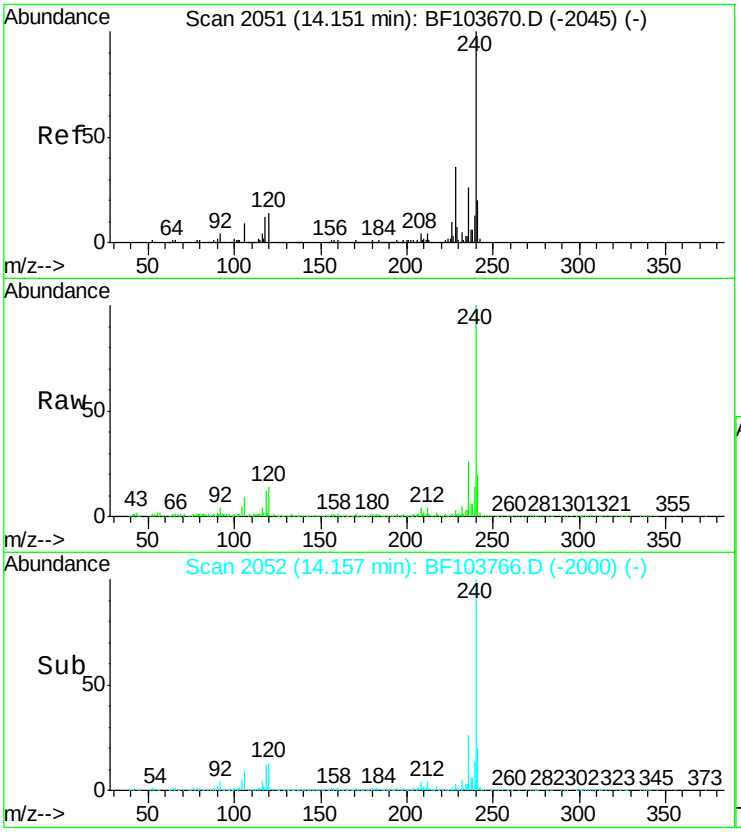



#74
Fluoranthene
Concen: 4.031 ng
RT: 12.72 min Scan# 1808
Delta R.T. 0.01 min
Lab File: BF103766.D
Acq: 19 Mar 2018 20:03

Tgt Ion:202 Resp: 112161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 14.0 | 0.0 | 34.1 |
| 203 | 17.3 | 0.0 | 38.1 |

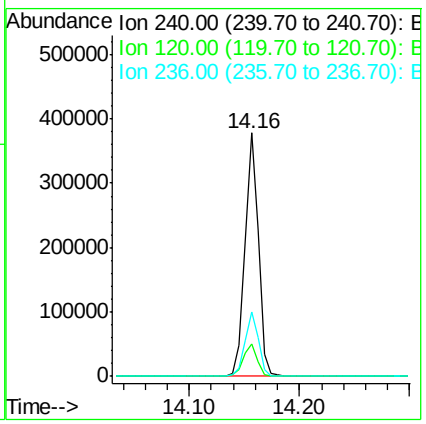





#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.16 min Scan# 2052
Delta R.T. 0.01 min
Lab File: BF103766.D
Acq: 19 Mar 2018 20:03

Tgt Ion:240 Resp: 327049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.6 | 9.5 | 14.3 |
| 236 | 26.3 | 20.7 | 31.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
ES-6-SA-2-EW@3

**Manual Integrations APPROVED**
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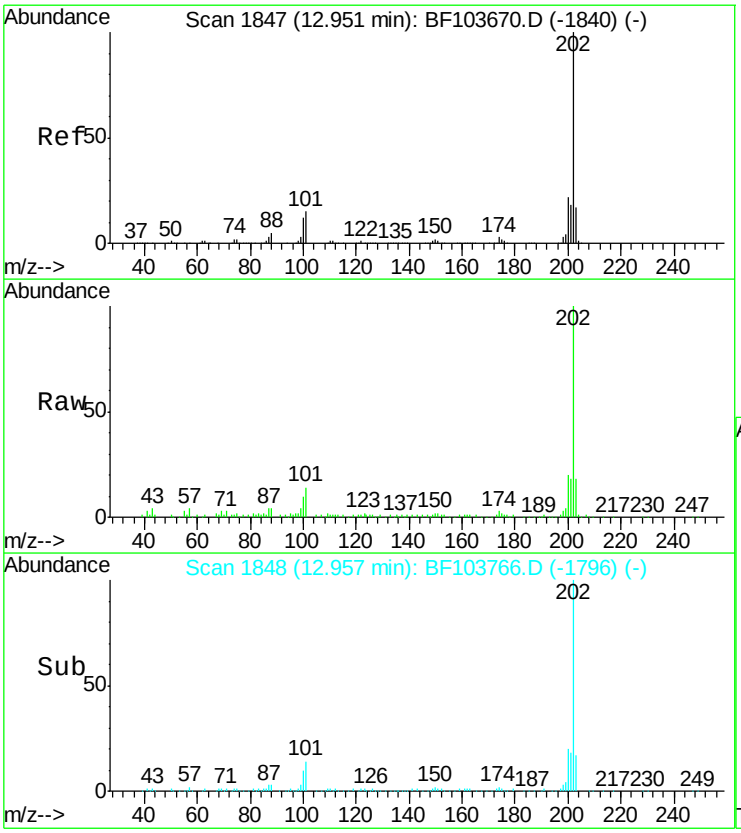
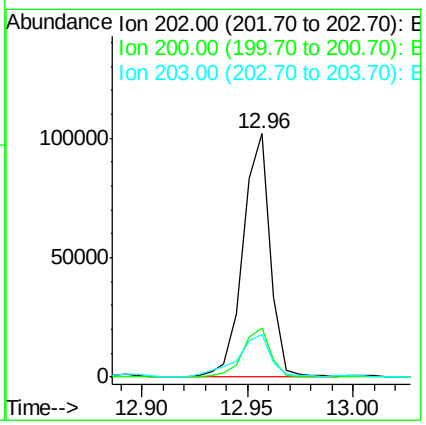
3/20/2018 6:26:42 PM

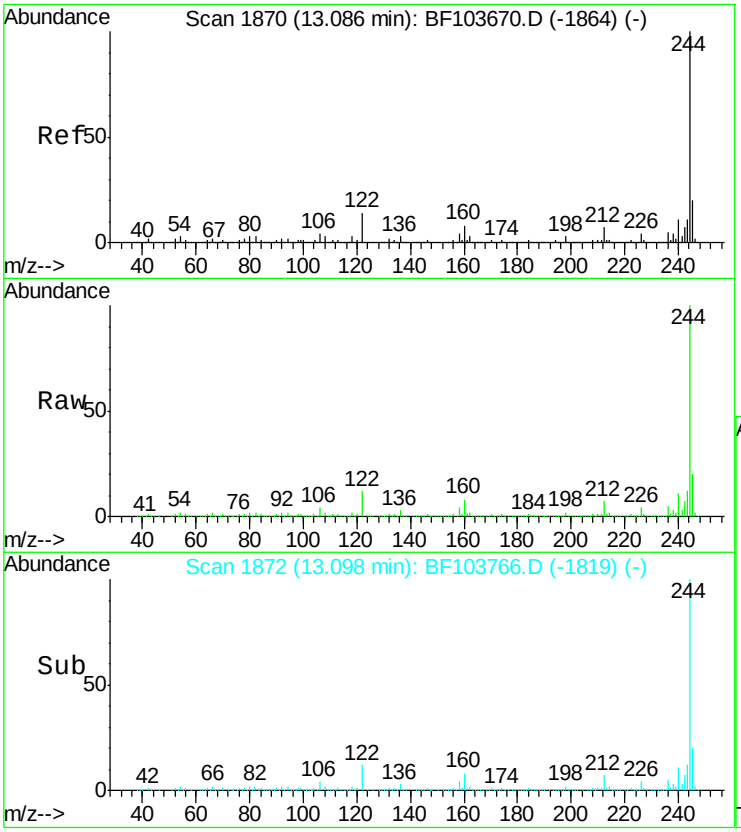



#77
Pyrene
Concen: 3.805 ng
RT: 12.96 min Scan# 1848
Delta R.T. 0.01 min
Lab File: BF103766.D
Acq: 19 Mar 2018 20:03

Tgt Ion:202 Resp: 91379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.0 | 17.4 | 26.2 |
| 203 | 17.6 | 14.3 | 21.5 |

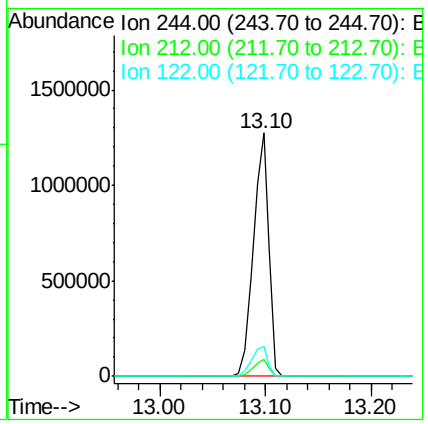





#78
Terphenyl-d14
Concen: 92.581 ng
RT: 13.10 min Scan# 1872
Delta R.T. 0.01 min
Lab File: BF103766.D
Acq: 19 Mar 2018 20:03

Tgt Ion:244 Resp: 1304463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.9 | 5.4 | 8.0 |
| 122 | 12.5 | 11.0 | 16.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
ES-6-SA-2-EW@3

**Manual Integrations APPROVED**
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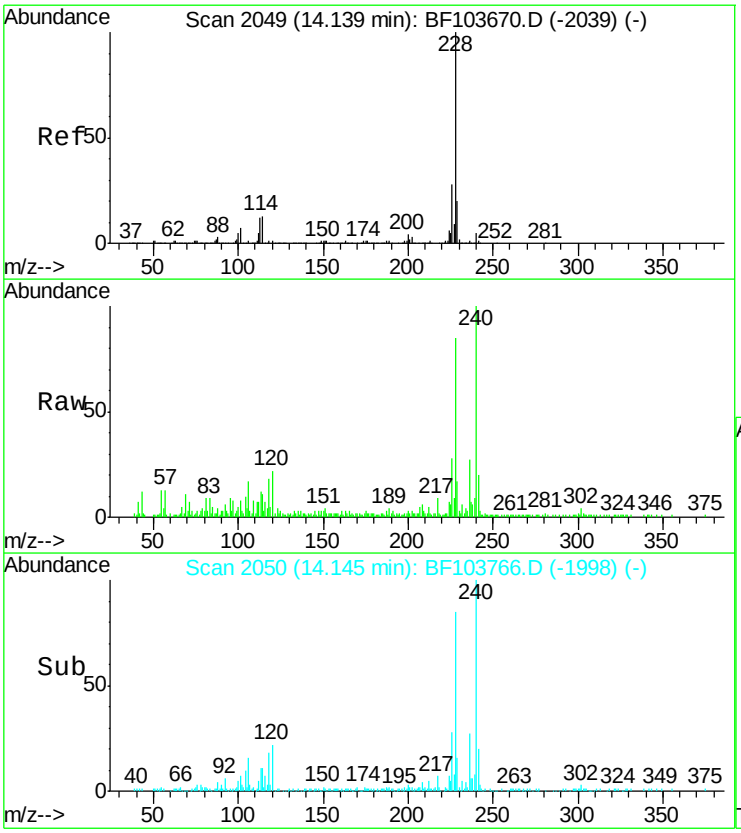
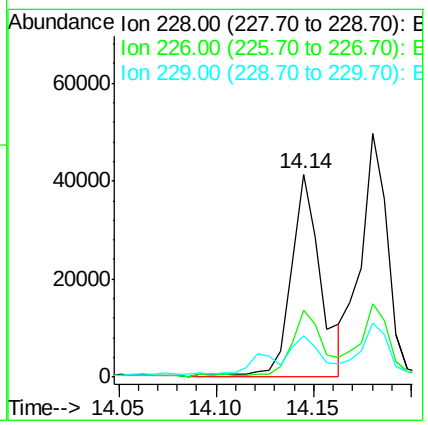
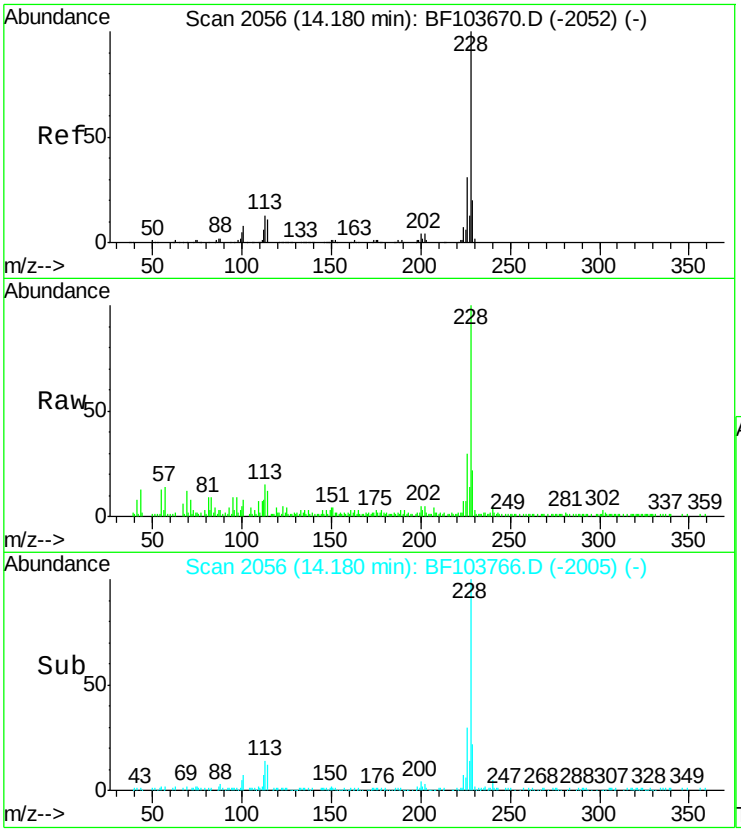



#80
Benzo(a)anthracene
Concen: 2.126 ng
RT: 14.14 min Scan# 2050
Delta R.T. 0.01 min
Lab File: BF103766.D
Acq: 19 Mar 2018 20:03

Tgt Ion:228 Resp: 44009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.8 | 22.6 | 33.8 |
| 229 | 20.3 | 15.8 | 23.6 |

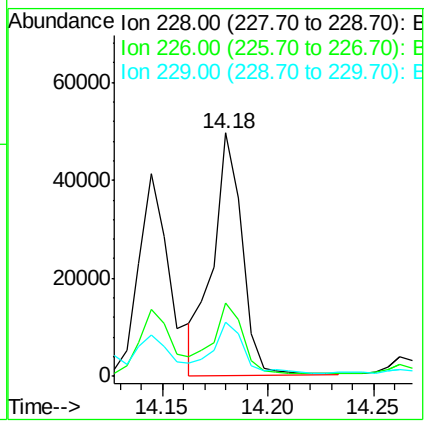





#82
Chrysene
Concen: 2.422 ng
RT: 14.18 min Scan# 2056
Delta R.T. -0.00 min
Lab File: BF103766.D
Acq: 19 Mar 2018 20:03

Tgt Ion:228 Resp: 47792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.0 | 25.0 | 37.6 |
| 229 | 22.5 | 16.2 | 24.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
ES-6-SA-2-EW@3

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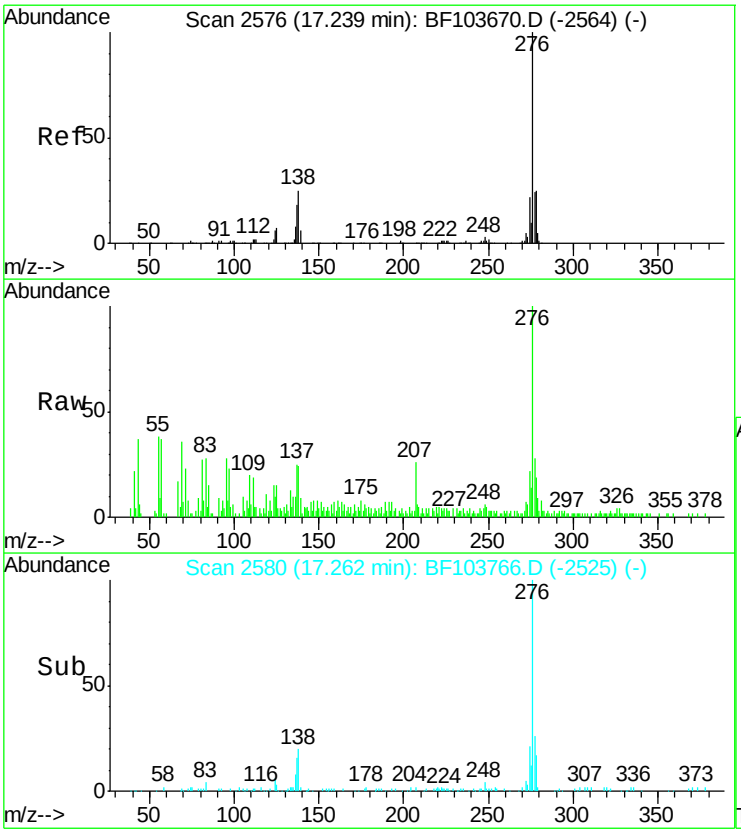
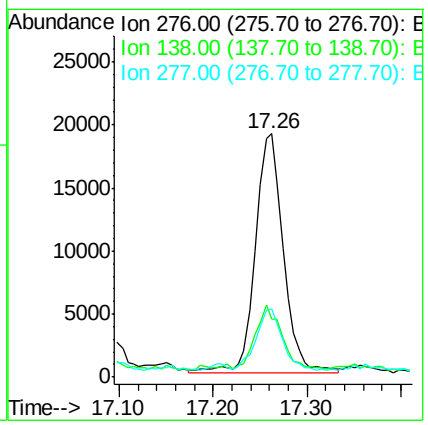
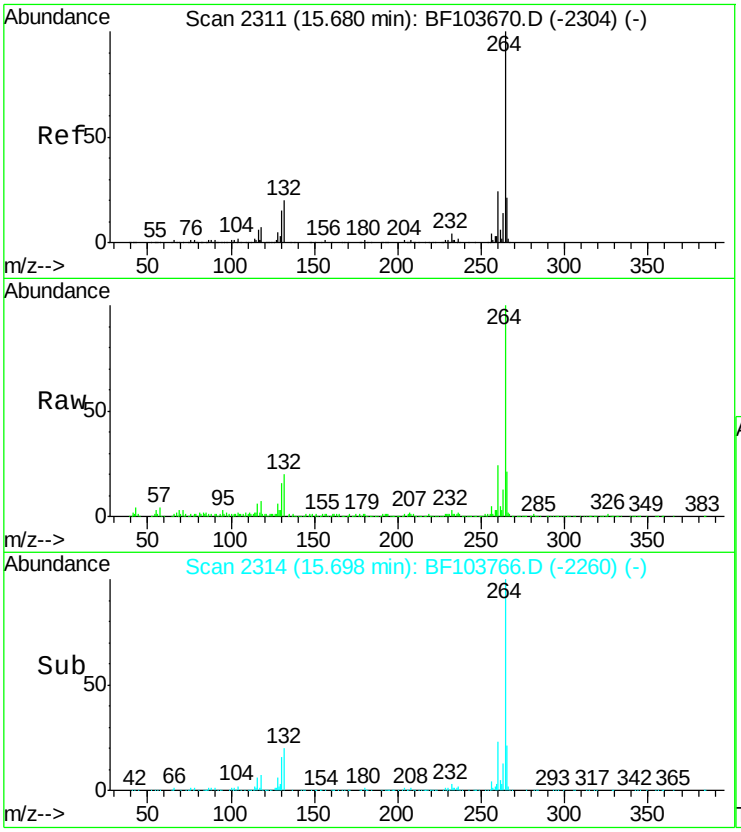



#85
Indeno(1,2,3-cd)pyrene
Concen: 2.266 ng
RT: 17.26 min Scan# 2580
Delta R.T. 0.02 min
Lab File: BF103766.D
Acq: 19 Mar 2018 20:03

Tgt Ion:276 Resp: 39060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.1 | 25.0 | 37.6 |
| 277 | 24.9 | 20.1 | 30.1 |

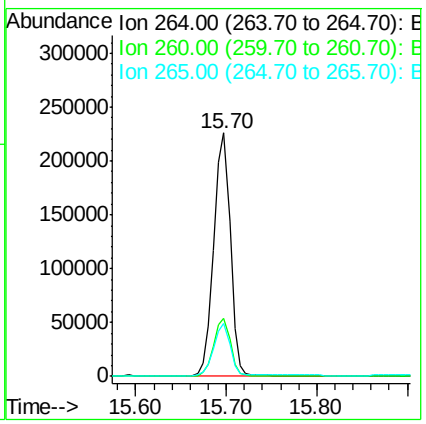





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.70 min Scan# 2314
Delta R.T. 0.02 min
Lab File: BF103766.D
Acq: 19 Mar 2018 20:03

Tgt Ion:264 Resp: 285789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.6 | 19.2 | 28.8 |
| 265 | 21.5 | 17.5 | 26.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
ES-6-SA-2-EW@3

**Manual Integrations APPROVED**
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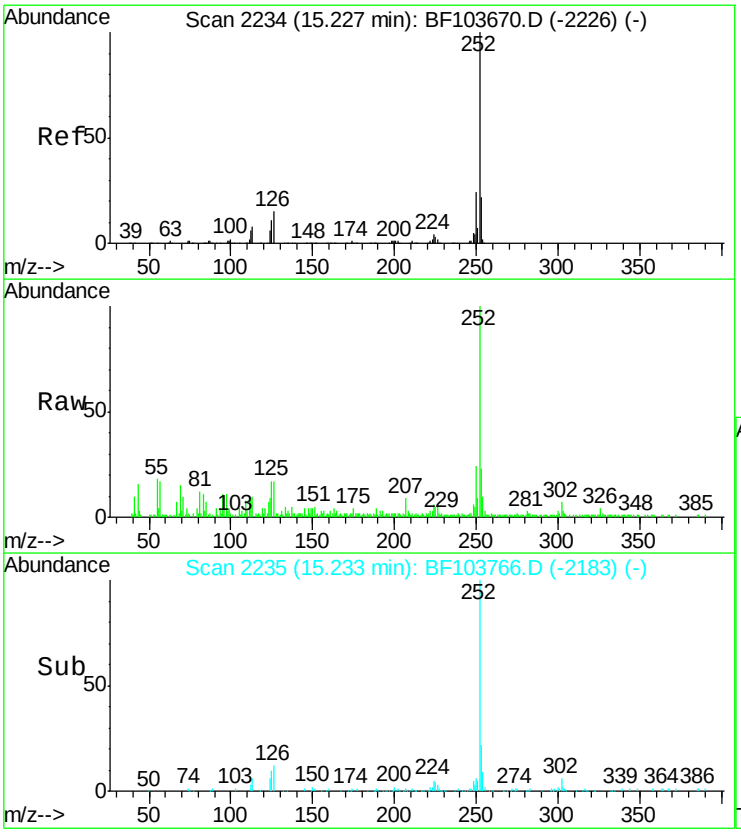
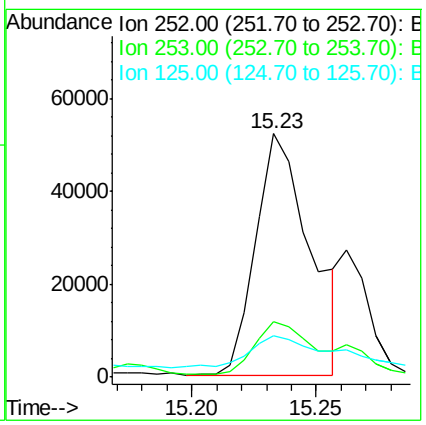
3/20/2018 6:26:42 PM

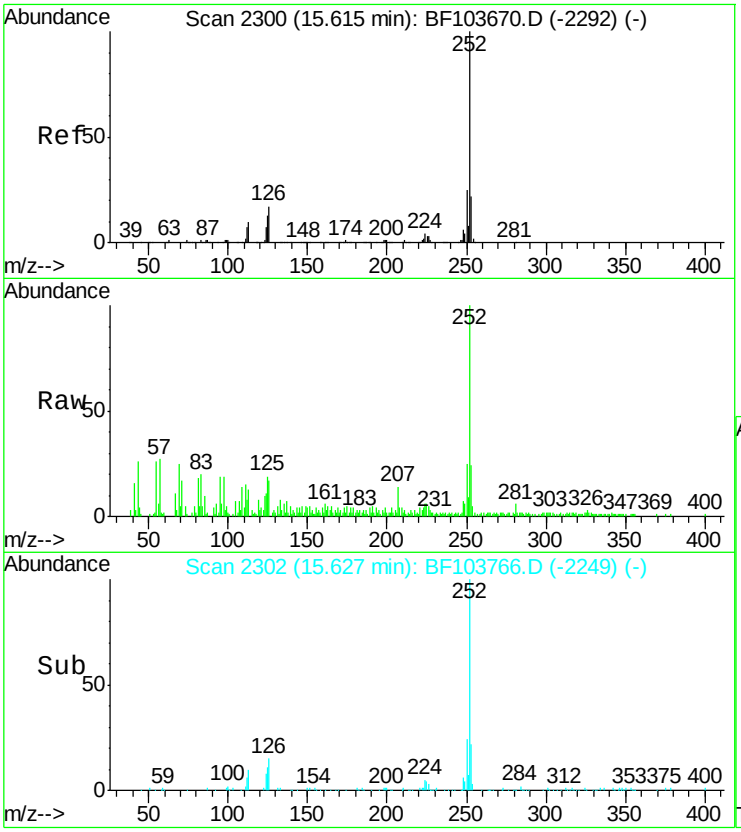



#87
Benzo(b)fluoranthene
Concen: 4.382 ng m
RT: 15.23 min Scan# 2235
Delta R.T. 0.01 min
Lab File: BF103766.D
Acq: 19 Mar 2018 20:03

Tgt Ion:252 Resp: 79116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.6 | 17.0 | 25.6 |
| 125 | 16.8 | 9.0 | 13.6# |






#89
Benzo(a)pyrene
Concen: 2.540 ng
RT: 15.63 min Scan# 2302
Delta R.T. 0.01 min
Lab File: BF103766.D
Acq: 19 Mar 2018 20:03

Tgt Ion:252 Resp: 41604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.7 | 17.1 | 25.7 |
| 125 | 18.9 | 9.8 | 14.6# |

**Instrument :**
BNA_F
**ClientSampleId :**
ES-6-SA-2-EW@3

**Manual Integrations APPROVED**
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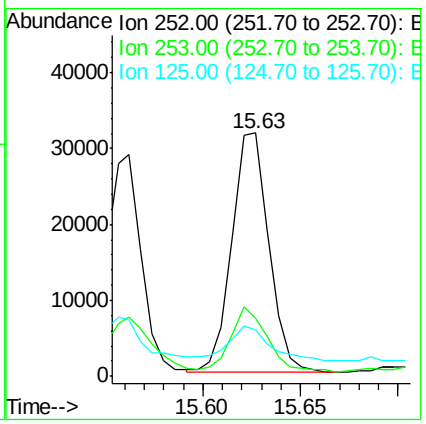
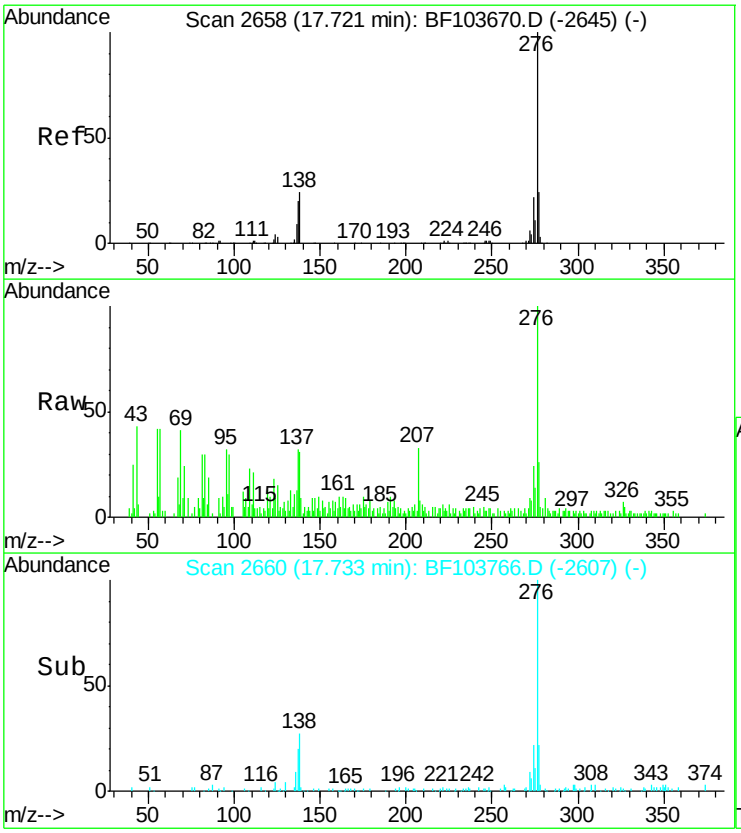
3/20/2018 6:26:42 PM




#91
Benzo(g,h,i)perylene
Concen: 2.555 ng
RT: 17.73 min Scan# 2660
Delta R.T. 0.01 min
Lab File: BF103766.D
Acq: 19 Mar 2018 20:03

Tgt Ion:276 Resp: 35252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.6 | 17.9 | 26.9 |
| 138 | 30.7 | 21.8 | 32.8 |