Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052717\
Data File : BF095521.D
Acq On : 28 May 2017 4:14
Operator : SJ/MA
Sample : I3244-14
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** NM5-COMP-6-18

**Manual Integrations APPROVED**
mohammad
5/31/2017 1:05:04 PM

Quant Time: May 30 14:43:47 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 26 16:50:16 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.74 | 152 | 96230 | 20.00 | ng | 0.00 |
| 21) Naphthalene-d8 | 9.77 | 136 | 382747 | 20.00 | ng | 0.00 |
| 38) Acenaphthene-d10 | 12.59 | 164 | 144261 | 20.00 | ng | 0.00 |
| 63) Phenanthrene-d10 | 15.00 | 188 | 222136 | 20.00 | ng | 0.00 |
| 75) Chrysene-d12 | 18.67 | 240 | 212779 | 20.00 | ng | 0.00 |
| 86) Perylene-d12 | 20.35 | 264 | 161015 | 20.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 5.70 | 112 | 696458 | 120.66 | ng | 0.00 |
| 7) Phenol-d6 | 7.28 | 99 | 823441 | 118.90 | ng | -0.01 |
| 23) Nitrobenzene-d5 | 8.64 | 82 | 447466 | 73.72 | ng | -0.01 |
| 41) 2,4,6-Tribromophenol | 13.90 | 330 | 118593 | 100.38 | ng | 0.00 |
| 44) 2-Fluorobiphenyl | 11.53 | 172 | 825961 | 82.41 | ng | 0.00 |
| 78) Terphenyl-d14 | 17.31 | 244 | 515532 | 53.36 | ng | -0.01 |
| **Target Compounds** | | | | | | Qvalue |
| 49) Dimethylphthalate | 12.24 | 163 | 126140 | 10.65 | ng | # 98 |
| 70) Phenanthrene | 15.05 | 178 | 64171 | 5.03 | ng | 95 |
| 74) Fluoranthene | 16.79 | 202 | 111576 | 8.52 | ng | 97 |
| 77) Pyrene | 17.09 | 202 | 100467 | 6.31 | ng | 96 |
| 80) Benzo(a)anthracene | 18.66 | 228 | 47133 | 3.81 | ng | 95 |
| 82) Chrysene | 18.71 | 228 | 55012 | 4.59 | ng | 100 |
| 85) Indeno(1,2,3-cd)pyrene | 21.71 | 276 | 22467 | 2.31 | ng | 98 |
| 87) Benzo(b)fluoranthene | 19.95 | 252 | 57338m | 5.76 | ng | |
| 88) Benzo(k)fluoranthene | 19.98 | 252 | 20260m | 2.11 | ng | |
| 89) Benzo(a)pyrene | 20.30 | 252 | 39414 | 4.29 | ng | # 88 |
| 91) Benzo(g,h,i)perylene | 22.11 | 276 | 20707 | 2.78 | ng | # 88 |

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

Quantitation Report (LSC Reviewed)

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QLast Update : Fri May 26 16:50:16 2017
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
NM5-COMP-6-18

**Manual Integrations APPROVED**
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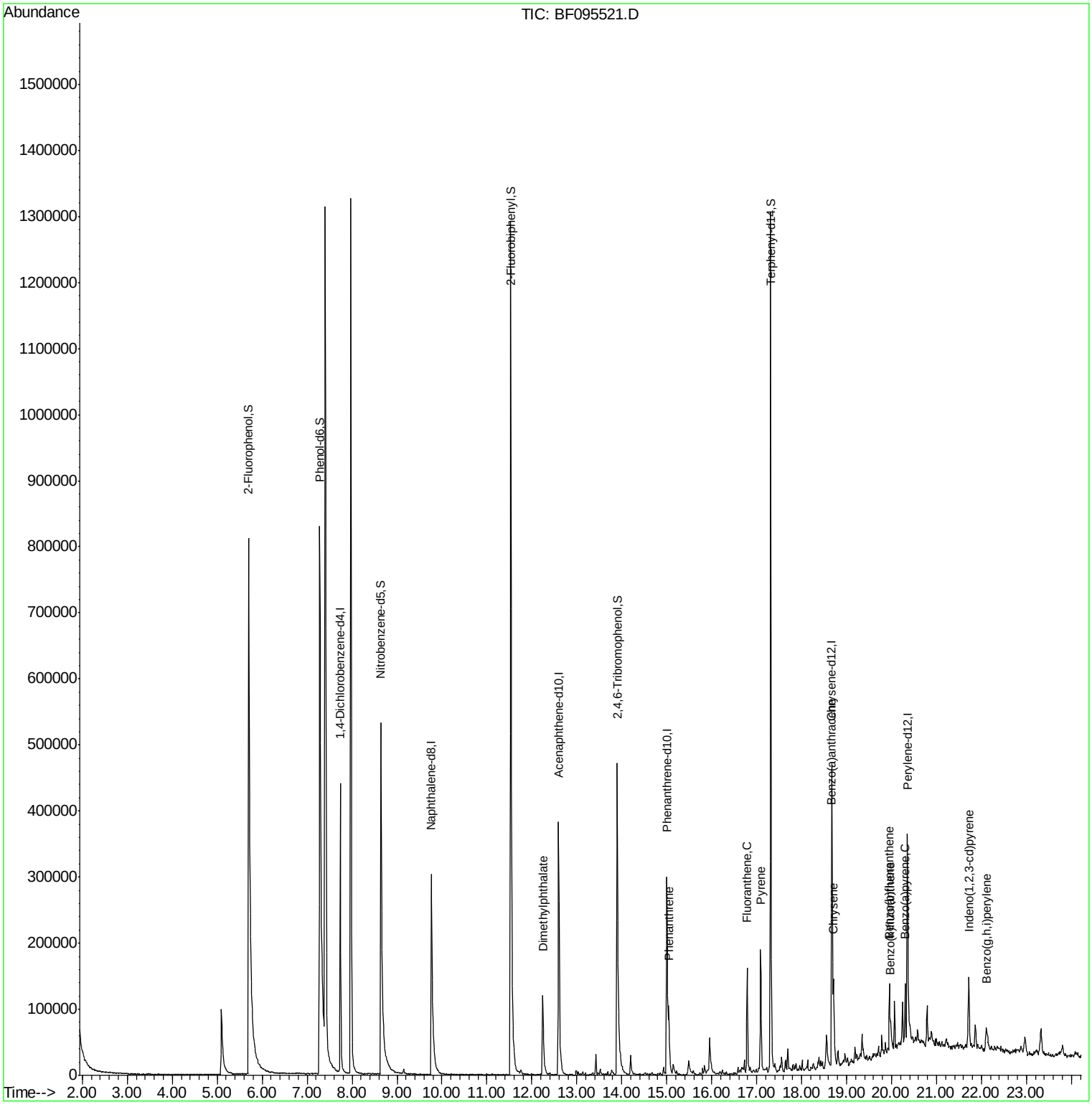
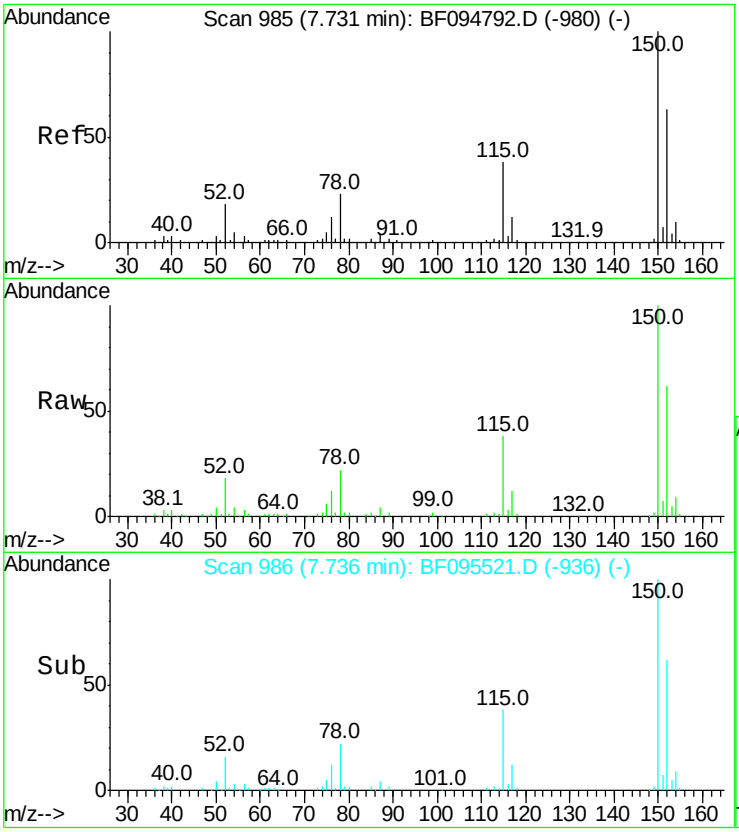
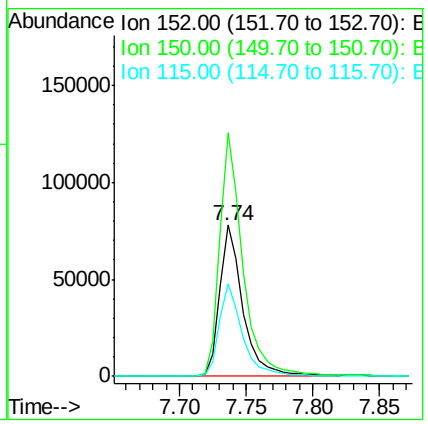





#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.74 min Scan# 986
Delta R.T. -0.01 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion:152 Resp: 96230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 161.1 | 126.2 | 189.2 |
| 115 | 61.4 | 52.2 | 78.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
NM5-COMP-6-18

**Manual Integrations APPROVED**
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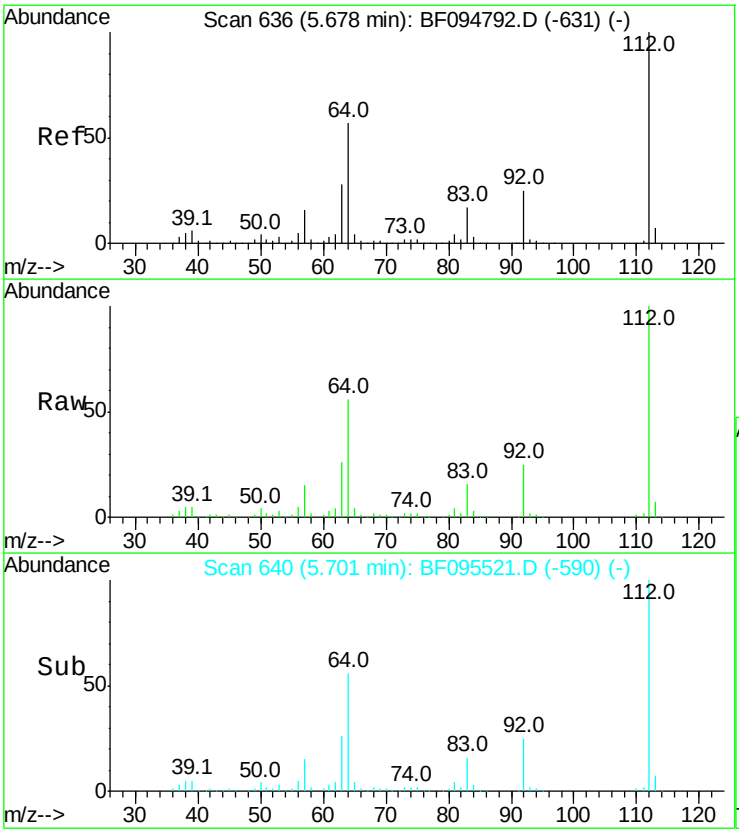
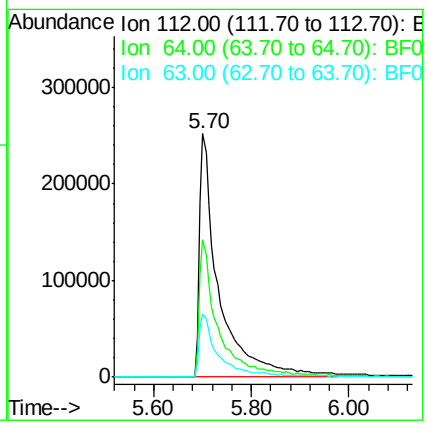
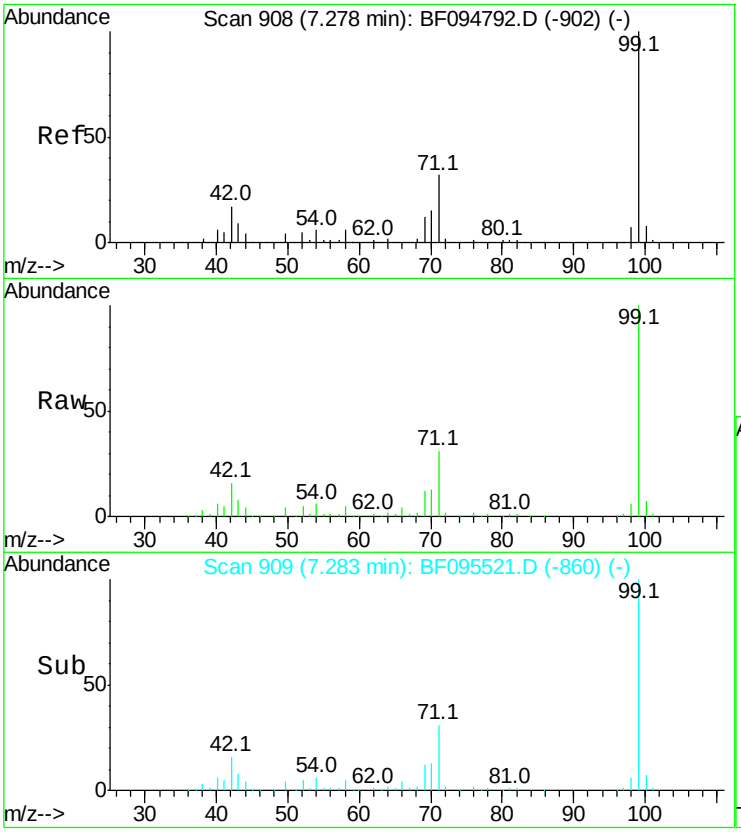



#5
2-Fluorophenol
Concen: 120.66 ng
RT: 5.70 min Scan# 640
Delta R.T. -0.01 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion:112 Resp: 696458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 56.3 | 46.0 | 69.0 |
| 63 | 25.8 | 23.4 | 35.0 |

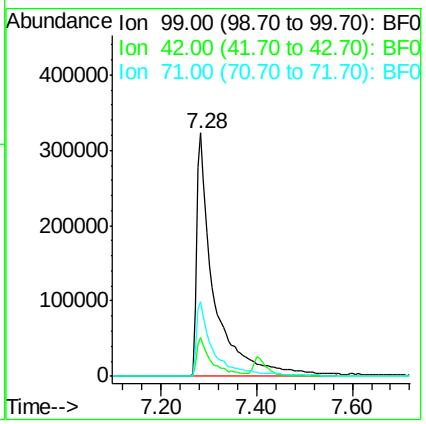





#7
Phenol-d6
Concen: 118.90 ng
RT: 7.28 min Scan# 909
Delta R.T. -0.01 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion: 99 Resp: 823441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 15.8 | 13.5 | 20.3 |
| 71 | 30.9 | 24.5 | 36.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
NM5-COMP-6-18

**Manual Integrations APPROVED**
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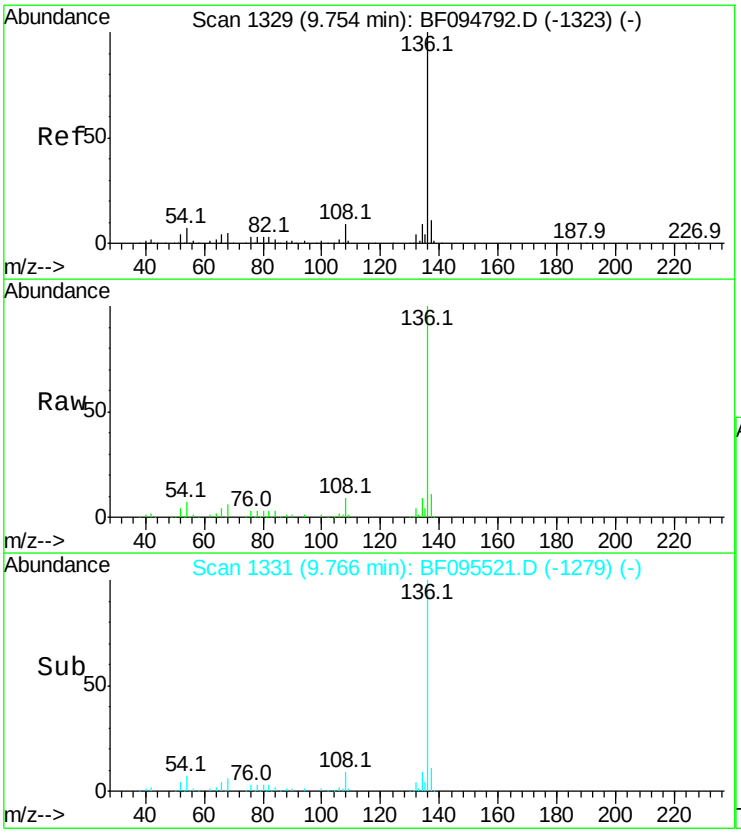
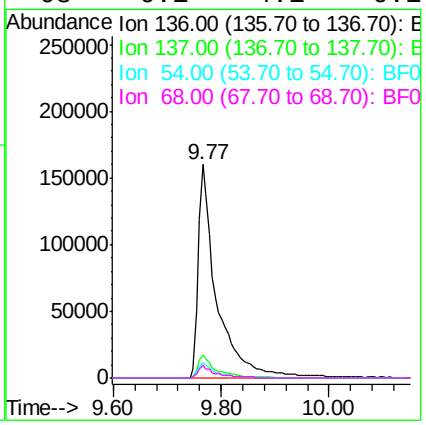
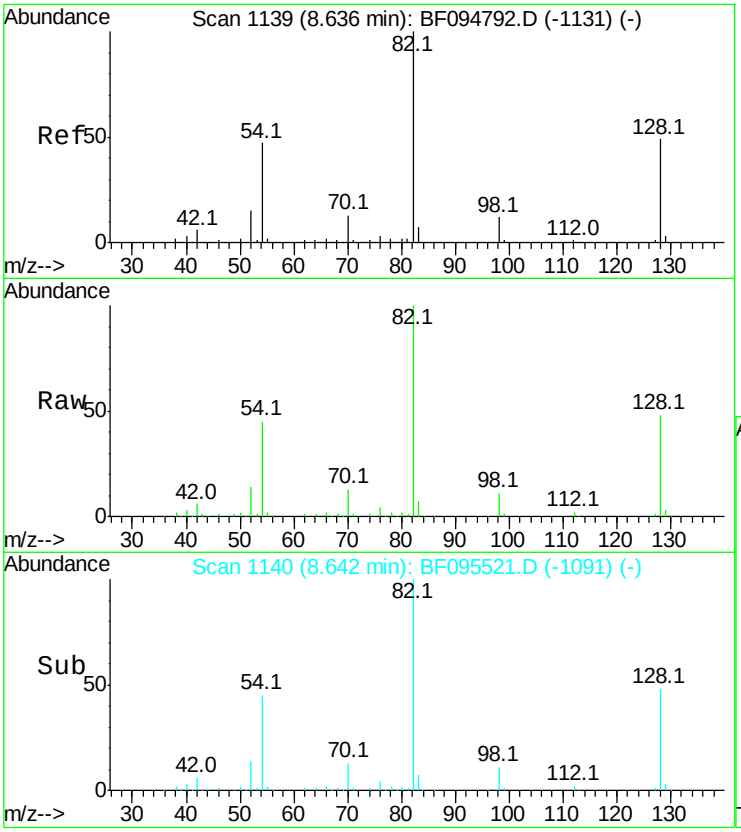



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.77 min Scan# 1331
Delta R.T. 0.01 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion:136 Resp: 382747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.7 | 8.5 | 12.7 |
| 54 | 6.9 | 4.9 | 7.3 |
| 68 | 6.1 | 4.1 | 6.1 |

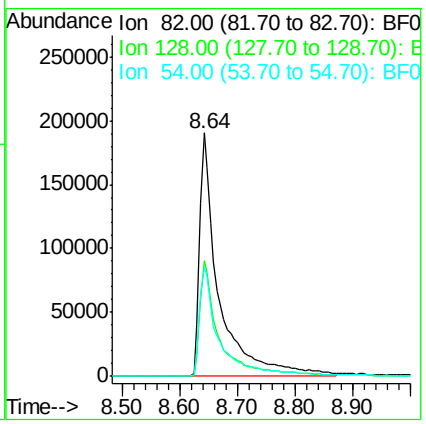





#23
Nitrobenzene-d5
Concen: 73.72 ng
RT: 8.64 min Scan# 1140
Delta R.T. -0.01 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion: 82 Resp: 447466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 47.6 | 34.0 | 51.0 |
| 54 | 44.9 | 42.2 | 63.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
NM5-COMP-6-18

**Manual Integrations APPROVED**
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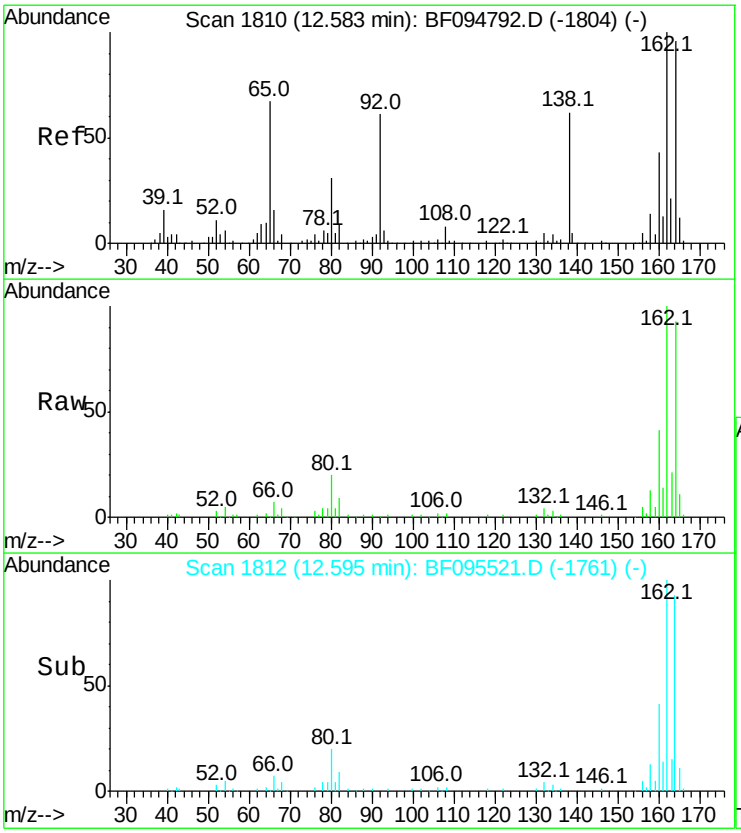
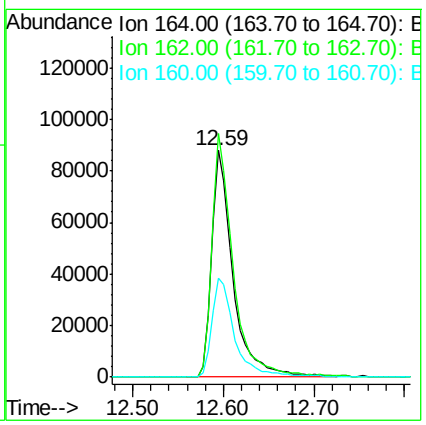
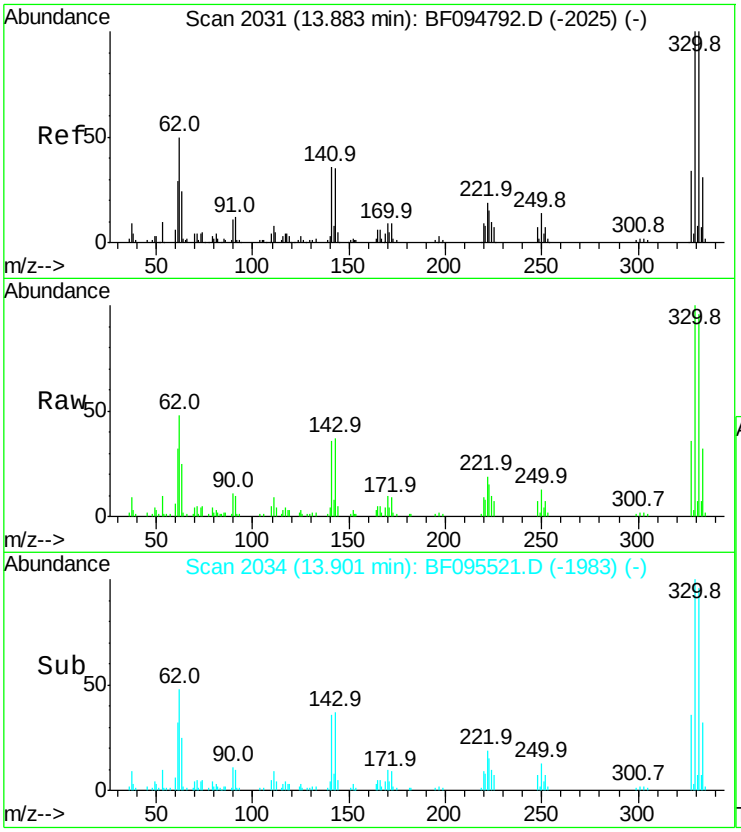



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.59 min Scan# 1812
Delta R.T. -0.00 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion:164 Resp: 144261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 107.4 | 82.6 | 123.8 |
| 160 | 43.7 | 36.2 | 54.2 |

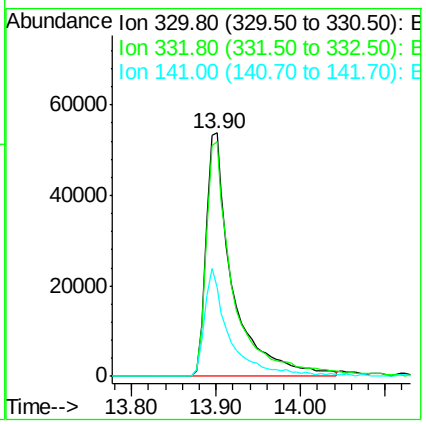





#41
2,4,6-Tribromophenol
Concen: 100.38 ng
RT: 13.90 min Scan# 2034
Delta R.T. -0.00 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion:330 Resp: 118593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 99.7 | 76.6 | 115.0 |
| 141 | 42.0 | 31.4 | 47.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
NM5-COMP-6-18

**Manual Integrations APPROVED**
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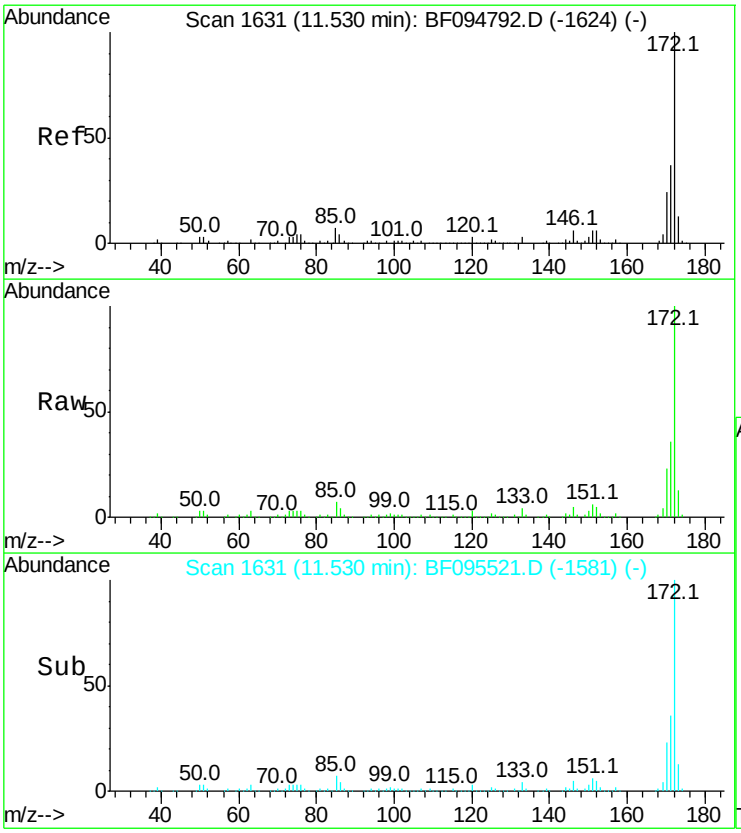
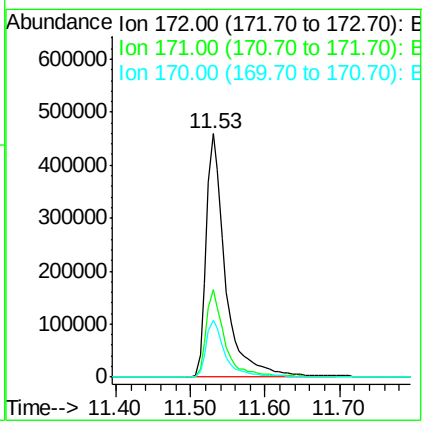
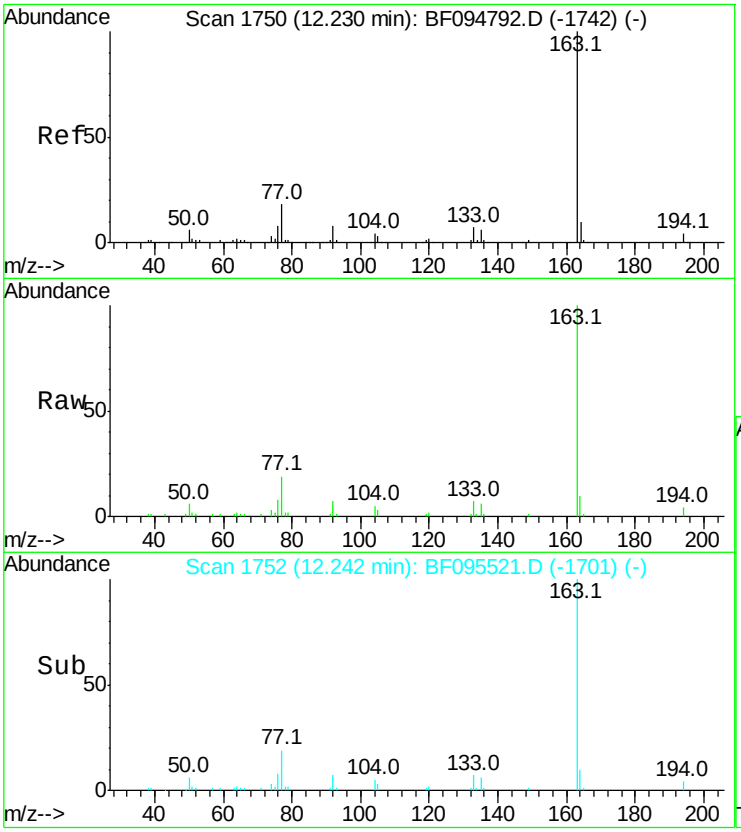



#44
2-Fluorobiphenyl
Concen: 82.41 ng
RT: 11.53 min Scan# 1631
Delta R.T. -0.01 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion:172 Resp: 825961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.9 | 29.6 | 44.4 |
| 170 | 23.2 | 19.8 | 29.8 |

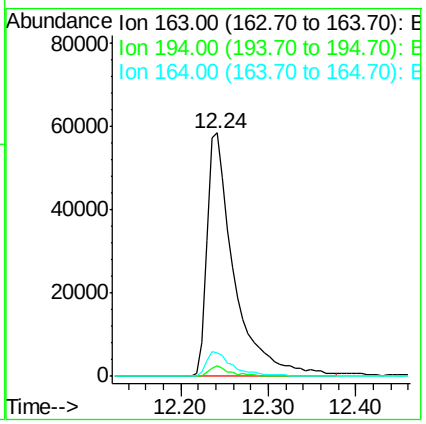





#49
Dimethylphthalate
Concen: 10.65 ng
RT: 12.24 min Scan# 1752
Delta R.T. -0.00 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion:163 Resp: 126140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 4.2 | 2.6 | 4.0# |
| 164 | 9.9 | 8.4 | 12.6 |

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**ClientSampleId :**
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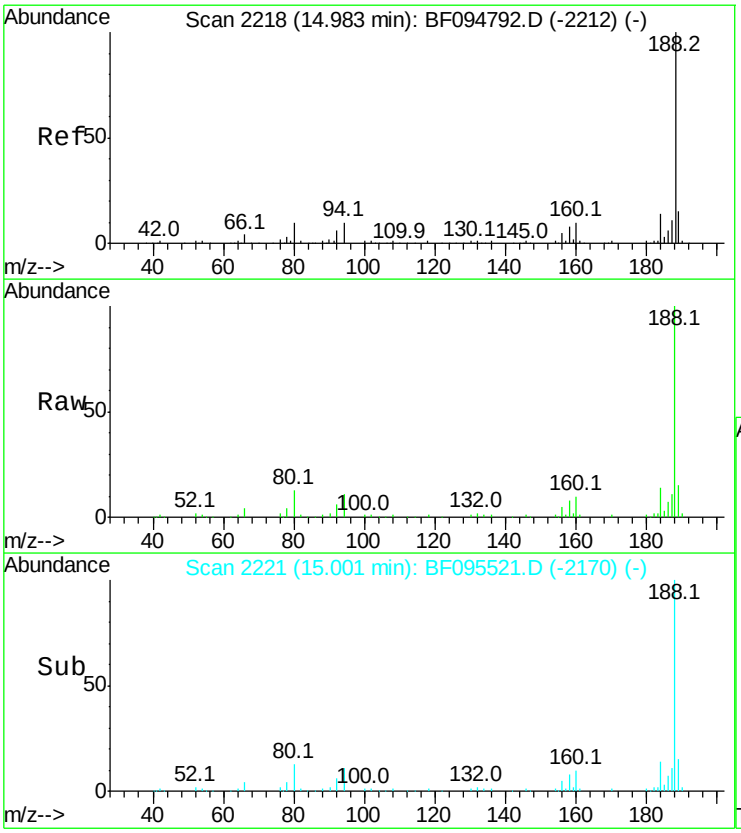
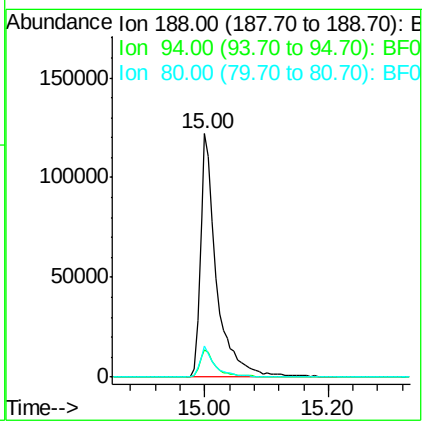
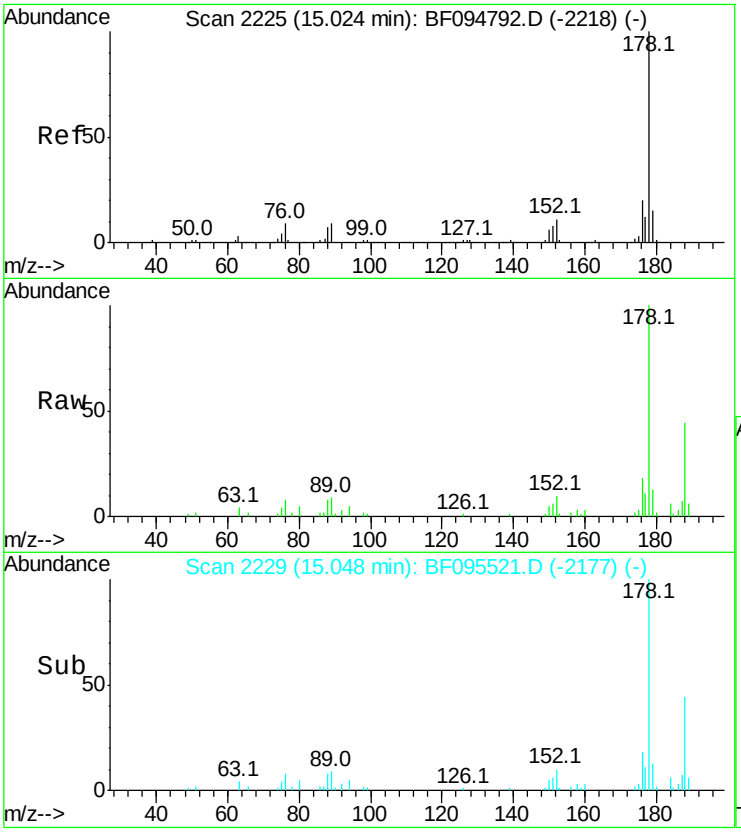



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 15.00 min Scan# 2221
Delta R.T. -0.00 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion:188 Resp: 222136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 11.3 | 9.4 | 14.2 |
| 80 | 12.5 | 10.2 | 15.2 |

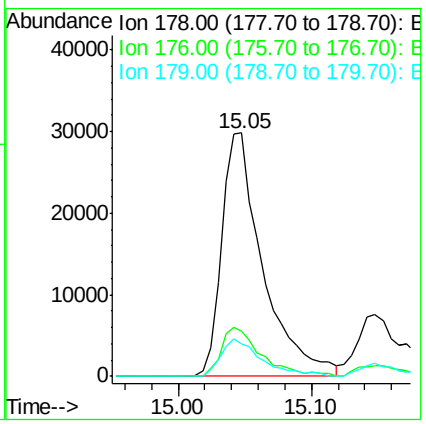





#70
Phenanthrene
Concen: 5.03 ng
RT: 15.05 min Scan# 2229
Delta R.T. 0.01 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion:178 Resp: 64171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.5 | 16.2 | 24.4 |
| 179 | 13.5 | 12.6 | 19.0 |




**Instrument :**
BNA_F
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**Manual Integrations APPROVED**
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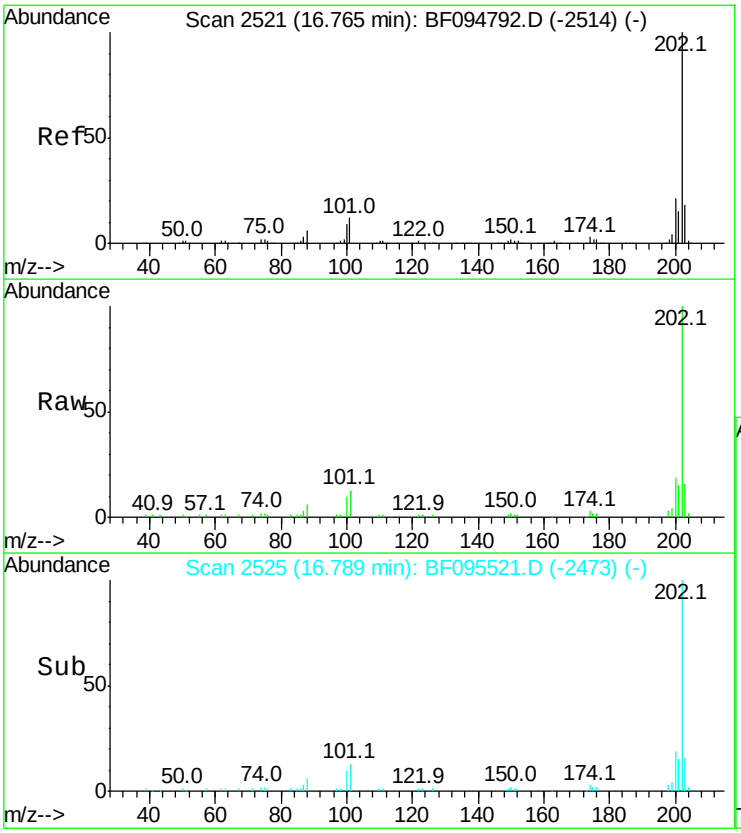
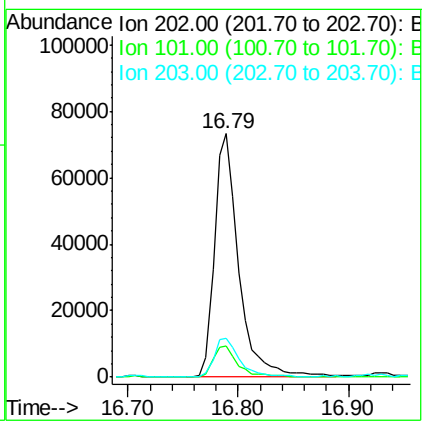
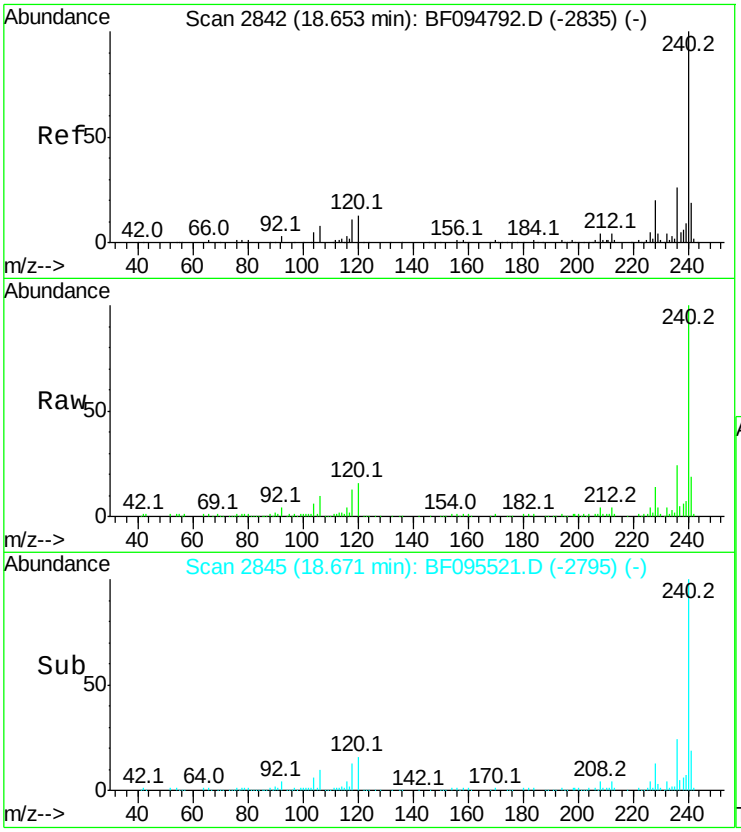



#74
Fluoranthene
Concen: 8.52 ng
RT: 16.79 min Scan# 2525
Delta R.T. 0.01 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion:202 Resp: 111576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.9 | 0.0 | 33.2 |
| 203 | 16.0 | 0.0 | 38.1 |

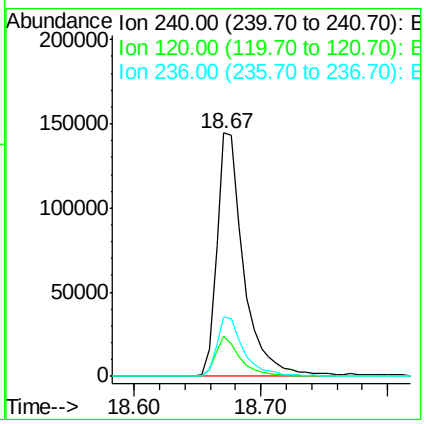





#75
Chrysene-d12
Concen: 20.00 ng
RT: 18.67 min Scan# 2845
Delta R.T. -0.01 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion:240 Resp: 212779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 16.4 | 5.8 | 8.8# |
| 236 | 24.2 | 20.5 | 30.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
NM5-COMP-6-18

**Manual Integrations APPROVED**
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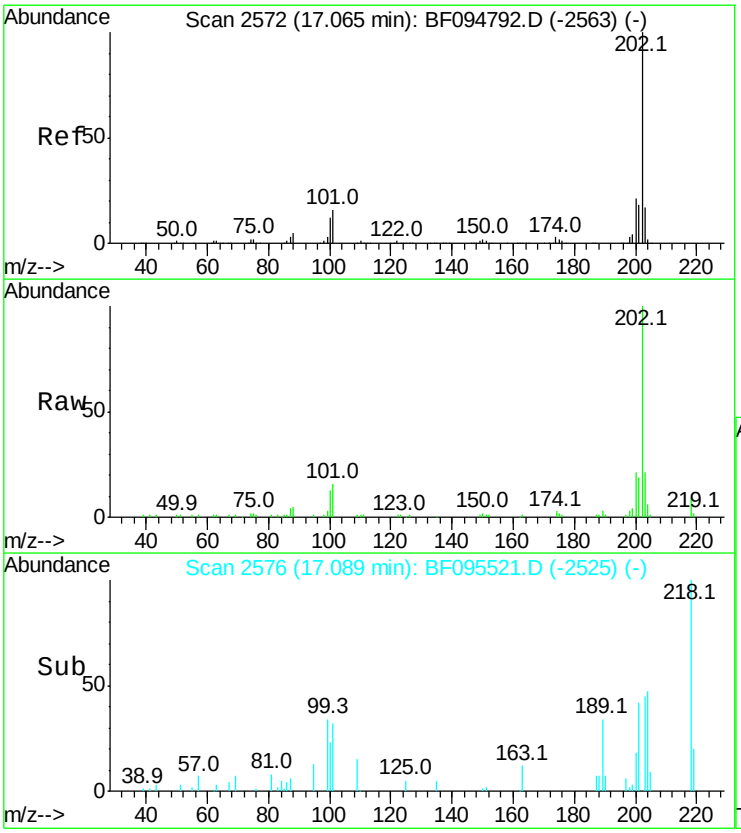
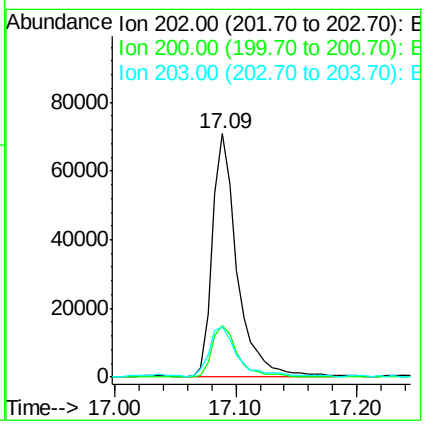
5/31/2017 1:05:04 PM

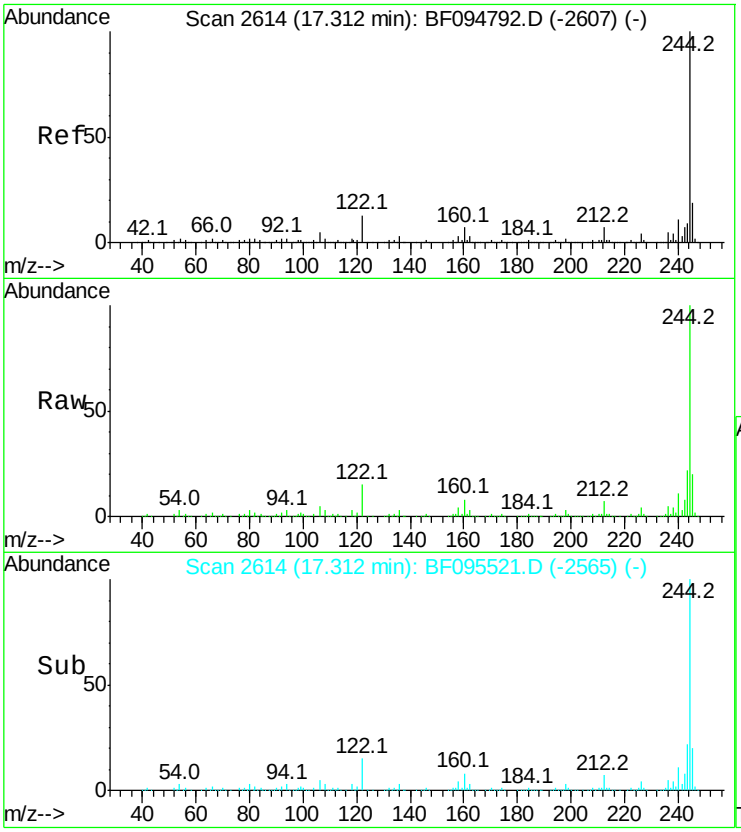



#77
Pyrene
Concen: 6.31 ng
RT: 17.09 min Scan# 2576
Delta R.T. -0.00 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion:202 Resp: 100467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 17.6 | 26.4 |
| 203 | 20.6 | 14.4 | 21.6 |

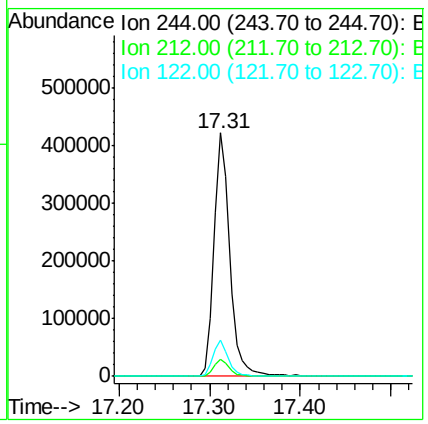





#78
Terphenyl-d14
Concen: 53.36 ng
RT: 17.31 min Scan# 2614
Delta R.T. -0.01 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion:244 Resp: 515532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.1 | 6.0 | 9.0 |
| 122 | 14.7 | 10.3 | 15.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
NM5-COMP-6-18

**Manual Integrations APPROVED**
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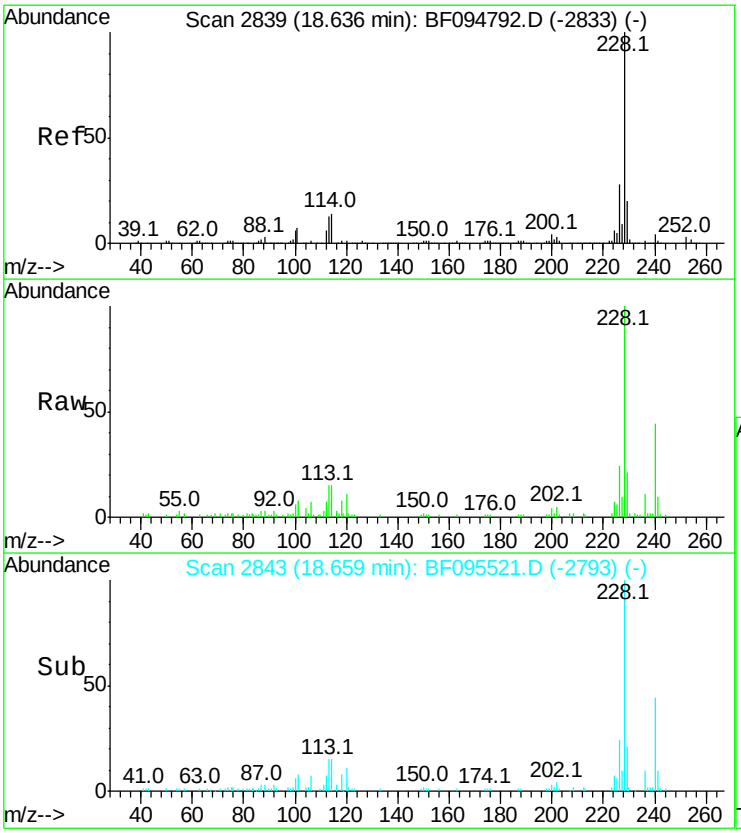
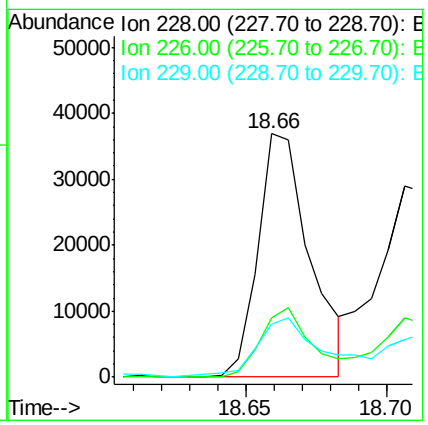
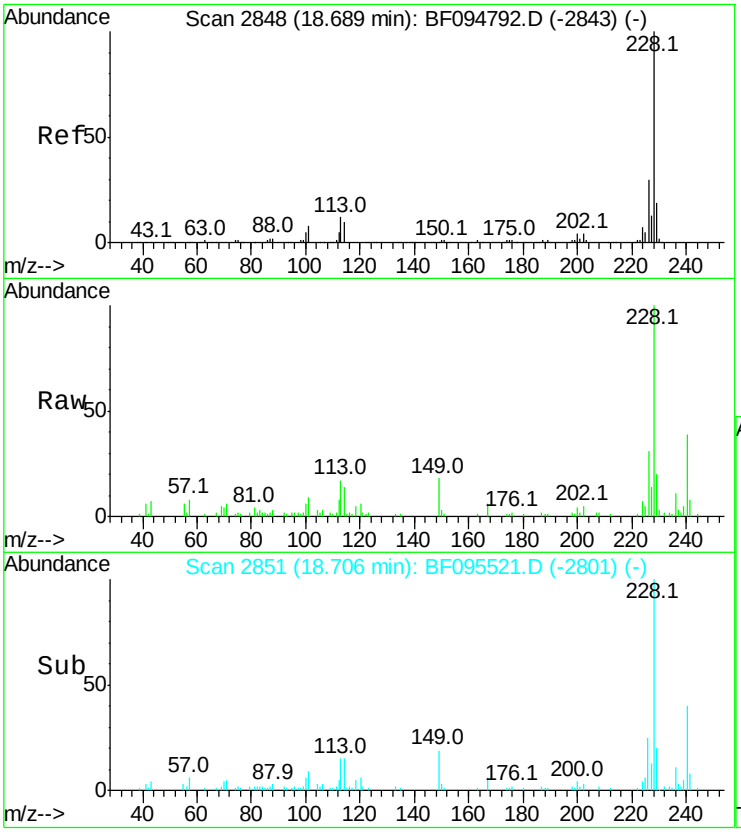



#80
Benzo(a)anthracene
Concen: 3.81 ng
RT: 18.66 min Scan# 2843
Delta R.T. -0.01 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion:228 Resp: 47133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 24.3 | 22.6 | 33.8 |
| 229 | 21.5 | 16.3 | 24.5 |

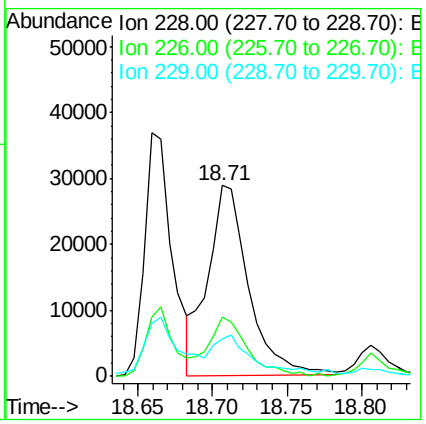





#82
Chrysene
Concen: 4.59 ng
RT: 18.71 min Scan# 2851
Delta R.T. -0.01 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion:228 Resp: 55012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.0 | 24.9 | 37.3 |
| 229 | 19.7 | 15.8 | 23.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
NM5-COMP-6-18

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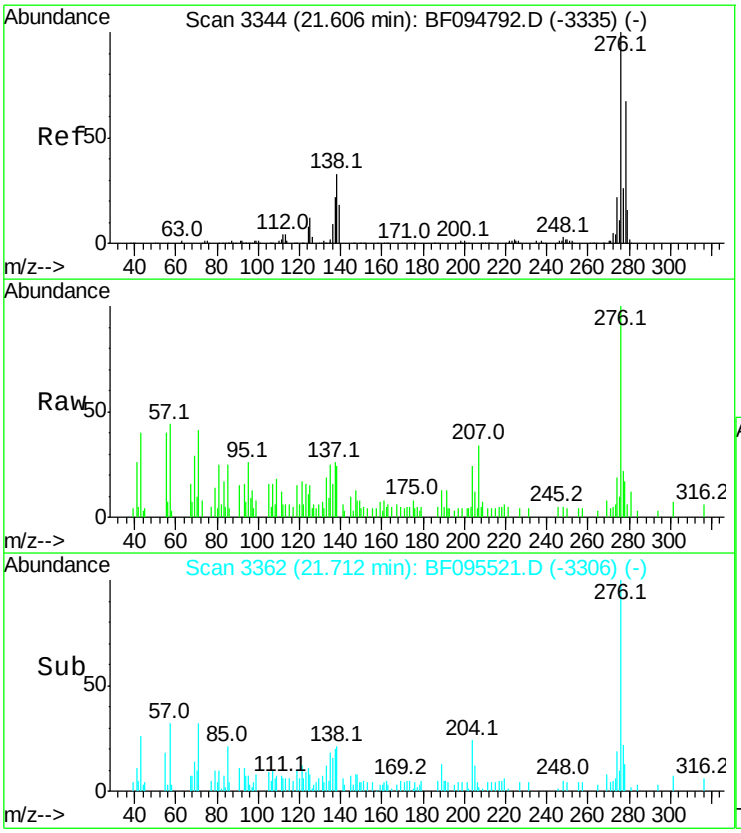
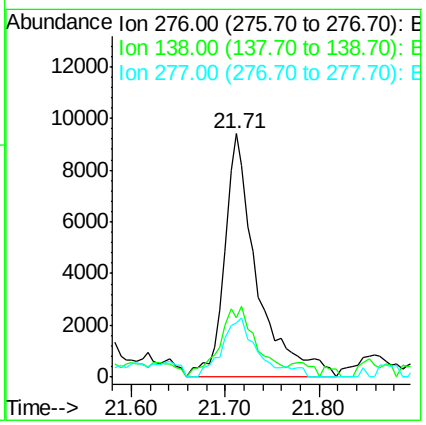
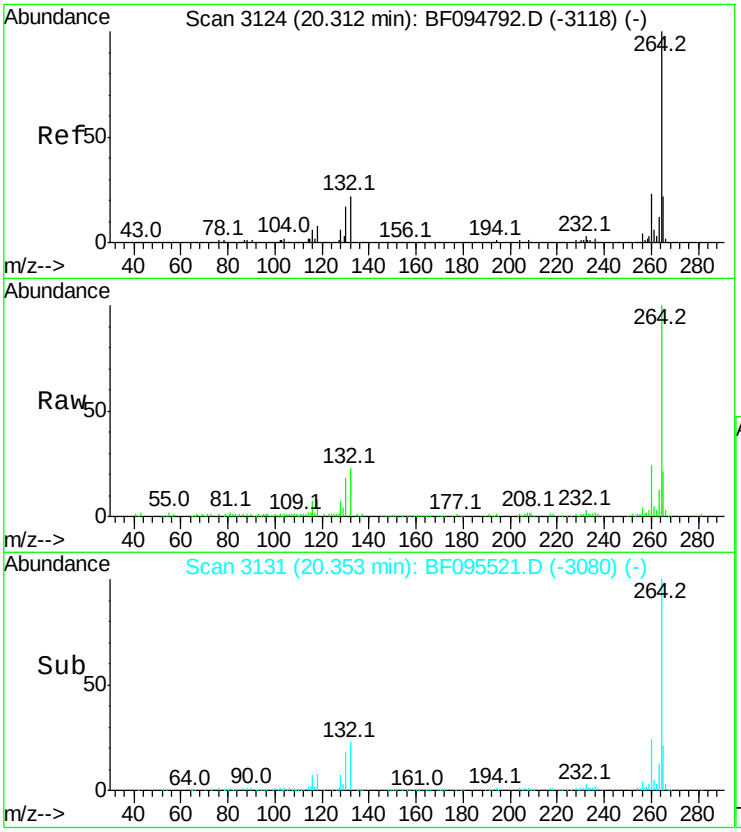



#85
Indeno(1,2,3-cd)pyrene
Concen: 2.31 ng
RT: 21.71 min Scan# 3362
Delta R.T. 0.03 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion:276 Resp: 22467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 33.1 | 27.8 | 41.6 |
| 277 | 25.0 | 20.2 | 30.4 |

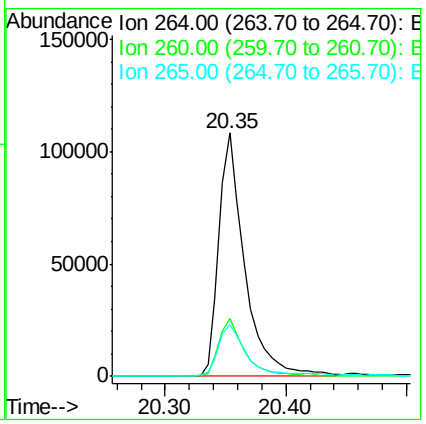





#86
Perylene-d12
Concen: 20.00 ng
RT: 20.35 min Scan# 3131
Delta R.T. -0.00 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion:264 Resp: 161015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.0 | 19.5 | 29.3 |
| 265 | 21.1 | 17.2 | 25.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
NM5-COMP-6-18

**Manual Integrations APPROVED**
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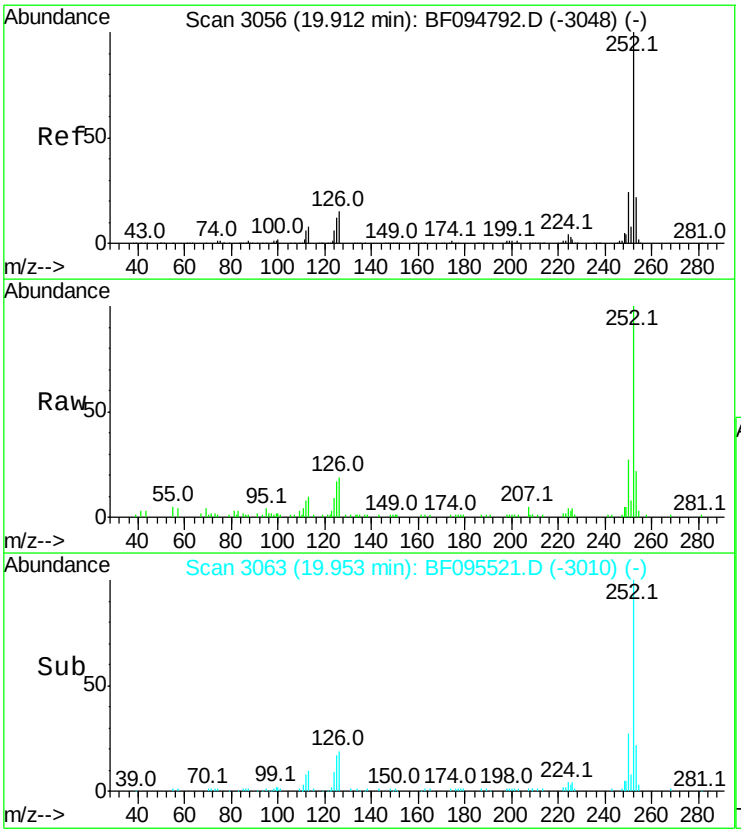
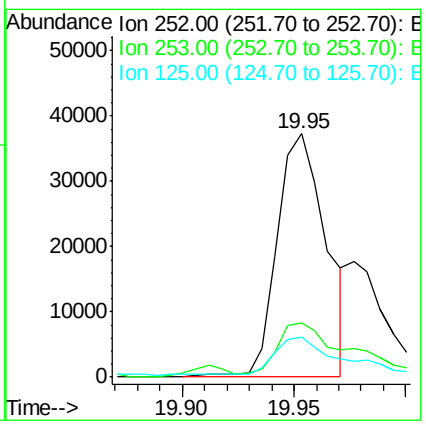
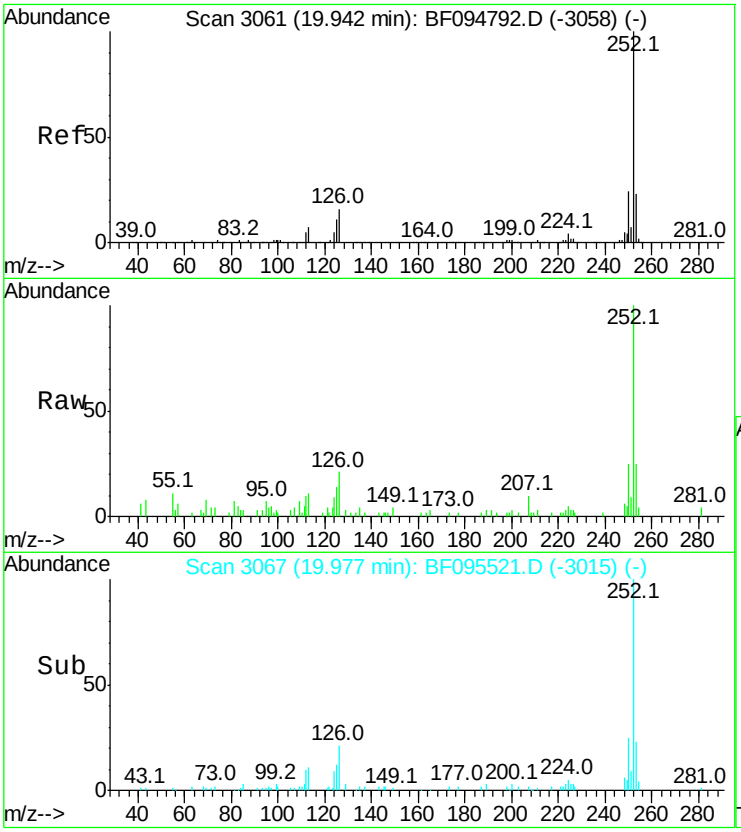



#87
Benzo(b)fluoranthene
Concen: 5.76 ng m
RT: 19.95 min Scan# 3063
Delta R.T. 0.01 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion:252 Resp: 57338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.1 | 18.1 | 27.1 |
| 125 | 16.7 | 9.8 | 14.8# |

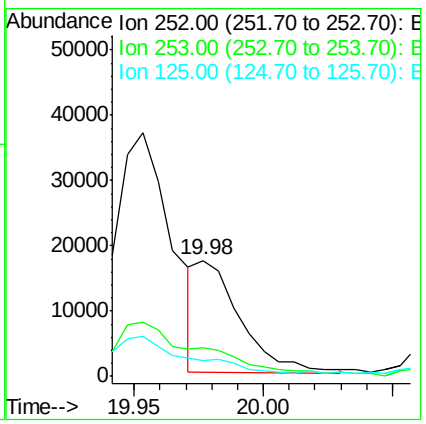





#88
Benzo(k)fluoranthene
Concen: 2.11 ng m
RT: 19.98 min Scan# 3067
Delta R.T. 0.01 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion:252 Resp: 20260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.9 | 18.4 | 27.6 |
| 125 | 14.0 | 13.1 | 19.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
NM5-COMP-6-18

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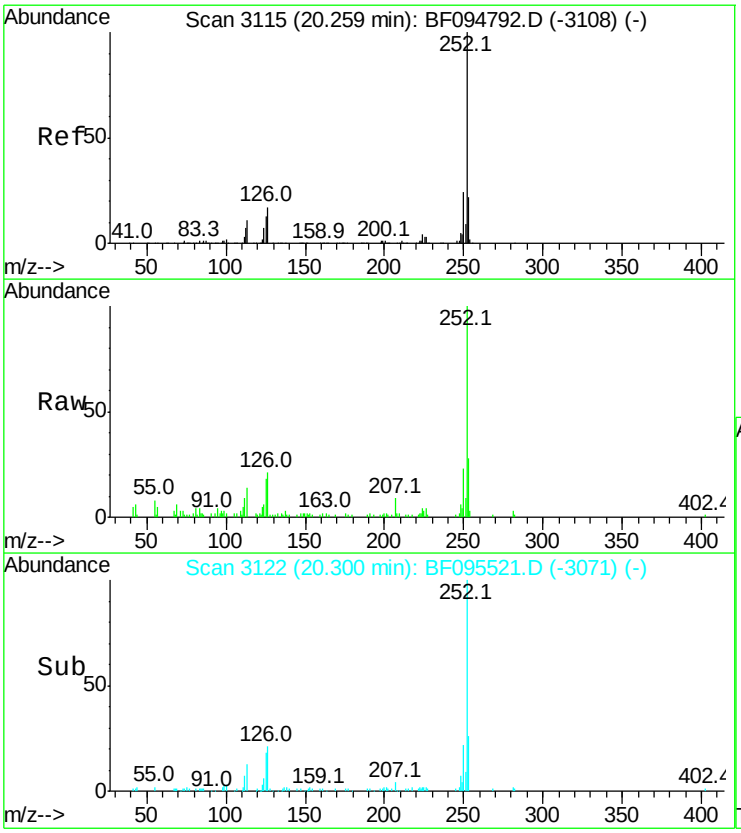
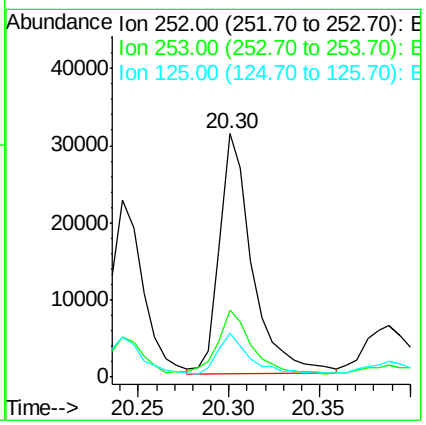
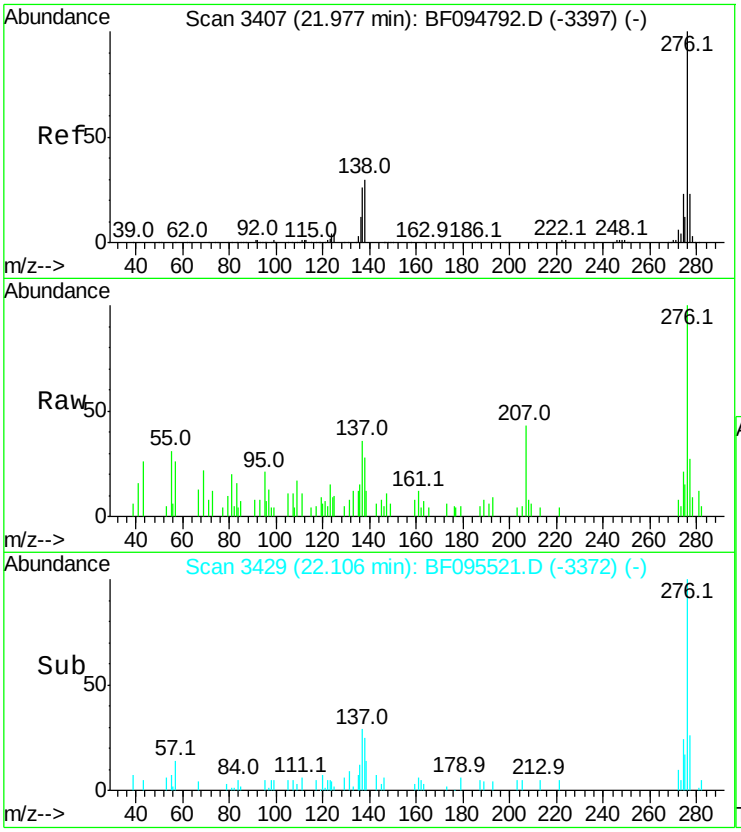



#89
Benzo(a)pyrene
Concen: 4.29 ng
RT: 20.30 min Scan# 3122
Delta R.T. -0.00 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion:252 Resp: 39414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.5 | 17.5 | 26.3# |
| 125 | 18.2 | 11.0 | 16.4# |

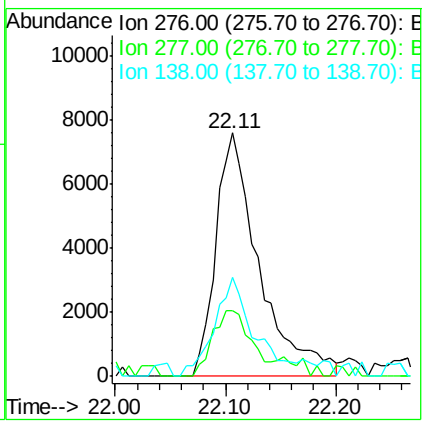





#91
Benzo(g,h,i)perylene
Concen: 2.78 ng
RT: 22.11 min Scan# 3429
Delta R.T. 0.04 min
Lab File: BF095521.D
Acq: 28 May 2017 4:14

Tgt Ion:276 Resp: 20707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 26.9 | 18.6 | 28.0 |
| 138 | 40.7 | 25.4 | 38.0# |




**Instrument :**
BNA_F
**ClientSampleId :**
NM5-COMP-6-18

**Manual Integrations APPROVED**
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