Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052417\
Data File : BF095414.D
Acq On : 25 May 2017 8:17
Operator : SJ/MA
Sample : I3300-01 10X
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
E2-T9-BASE

**Manual Integrations APPROVED**
mohammad
5/25/2017 6:11:01 PM

Quant Time: May 25 16:34:14 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu May 18 17:07:53 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.75 | 152 | 73472 | 20.00 | ng | | -0.01 |
| 21) Naphthalene-d8 | 9.77 | 136 | 288750 | 20.00 | ng | | -0.01 |
| 38) Acenaphthene-d10 | 12.61 | 164 | 113944 | 20.00 | ng | | -0.01 |
| 63) Phenanthrene-d10 | 15.01 | 188 | 192433 | 20.00 | ng | | -0.02 |
| 75) Chrysene-d12 | 18.68 | 240 | 182262 | 20.00 | ng | | -0.01 |
| 86) Perylene-d12 | 20.36 | 264 | 121711 | 20.00 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.85 | 112 | 37768m | 8.57 | ng | | 0.11 |
| 7) Phenol-d6 | 7.43 | 99 | 44084m | 8.34 | ng | | 0.12 |
| 23) Nitrobenzene-d5 | 8.72 | 82 | 21665 | 4.73 | ng | | 0.05 |
| 41) 2,4,6-Tribromophenol | 13.94 | 330 | 6673 | 7.15 | ng | | 0.02 |
| 44) 2-Fluorobiphenyl | 11.55 | 172 | 43201 | 5.46 | ng | | -0.01 |
| 78) Terphenyl-d14 | 17.32 | 244 | 35164 | 4.25 | ng | | -0.02 |
| **Target Compounds** | | | | | | | Qvalue |
| 31) Naphthalene | 9.81 | 128 | 91932 | 6.33 | ng | | 99 |
| 45) 1,1'-Biphenyl | 11.71 | 154 | 21234 | 2.21 | ng | | 96 |
| 48) Acenaphthylene | 12.38 | 152 | 193287 | 15.93 | ng | | 99 |
| 51) Acenaphthene | 12.65 | 154 | 21611 | 2.98 | ng | | 99 |
| 57) Fluorene | 13.51 | 166 | 34321 | 3.94 | ng | | 98 |
| 70) Phenanthrene | 15.05 | 178 | 99722 | 9.02 | ng | | 98 |
| 71) Anthracene | 15.14 | 178 | 33952m | 3.01 | ng | | |
| 74) Fluoranthene | 16.79 | 202 | 134821 | 11.89 | ng | | 98 |
| 77) Pyrene | 17.09 | 202 | 310243 | 22.76 | ng | | 99 |
| 80) Benzo(a)anthracene | 18.67 | 228 | 76474m | 7.21 | ng | | |
| 82) Chrysene | 18.71 | 228 | 87488 | 8.53 | ng | | 98 |
| 85) Indeno(1,2,3-cd)pyrene | 21.70 | 276 | 46791 | 5.62 | ng | # | 88 |
| 87) Benzo(b)fluoranthene | 19.95 | 252 | 99215m | 13.19 | ng | | |
| 88) Benzo(k)fluoranthene | 19.98 | 252 | 22272m | 3.07 | ng | | |
| 89) Benzo(a)pyrene | 20.31 | 252 | 113347 | 16.33 | ng | | 97 |
| 91) Benzo(g,h,i)perylene | 22.09 | 276 | 73972 | 13.15 | ng | | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052417\
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**Instrument :**
BNA_F
**ClientSampleId :**
E2-T9-BASE

**Manual Integrations APPROVED**
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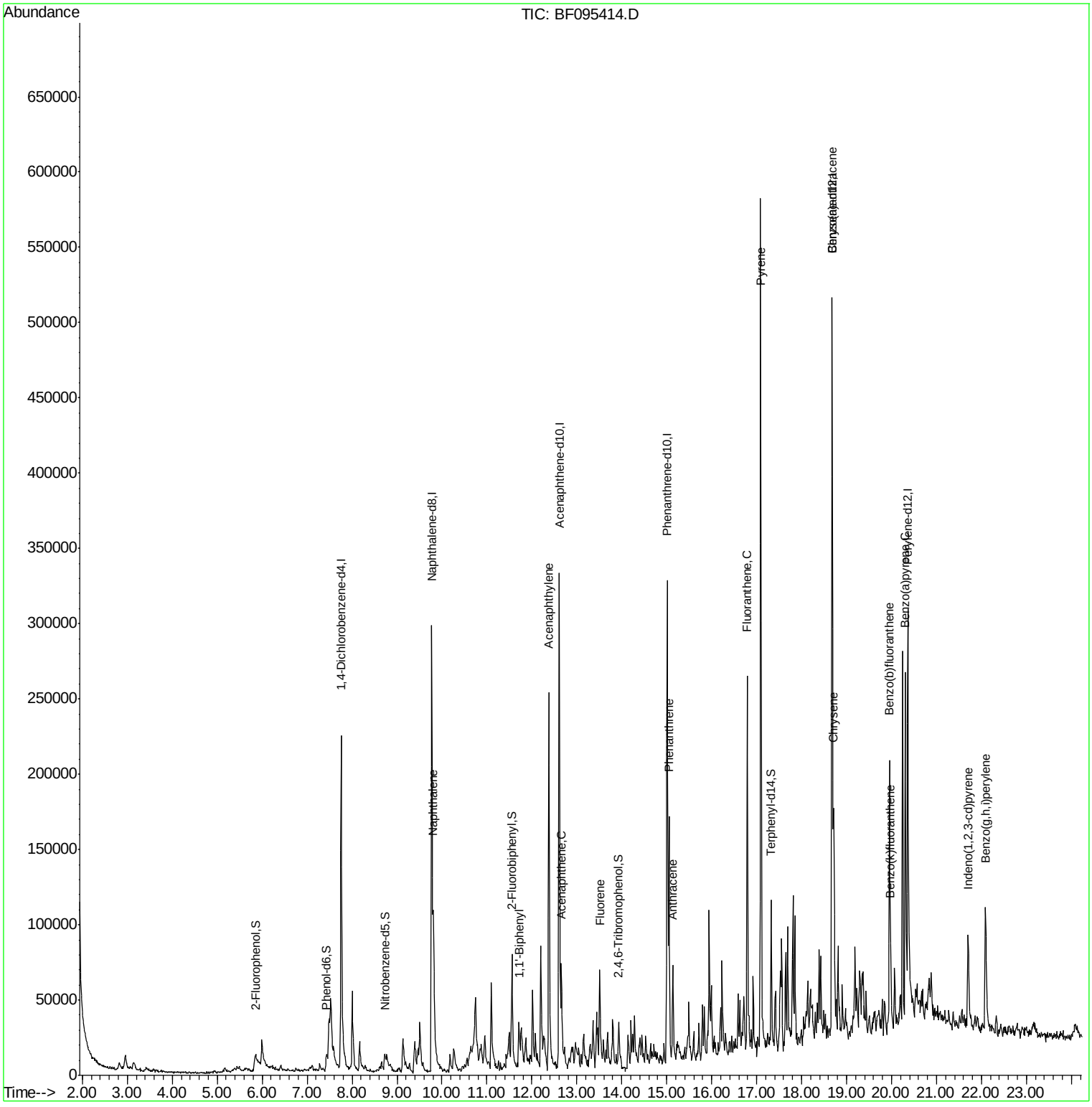
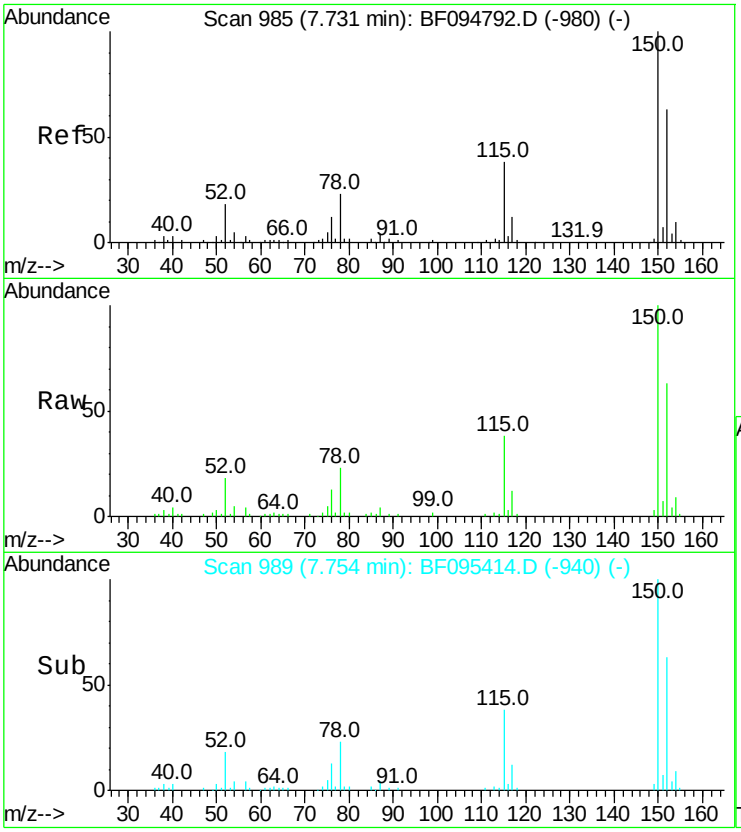
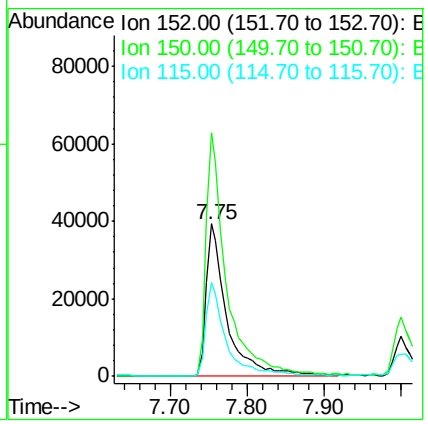





#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.75 min Scan# 989
Delta R.T. -0.01 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:152 Resp: 73472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 159.9 | 126.2 | 189.2 |
| 115 | 61.4 | 52.2 | 78.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-T9-BASE

**Manual Integrations APPROVED**
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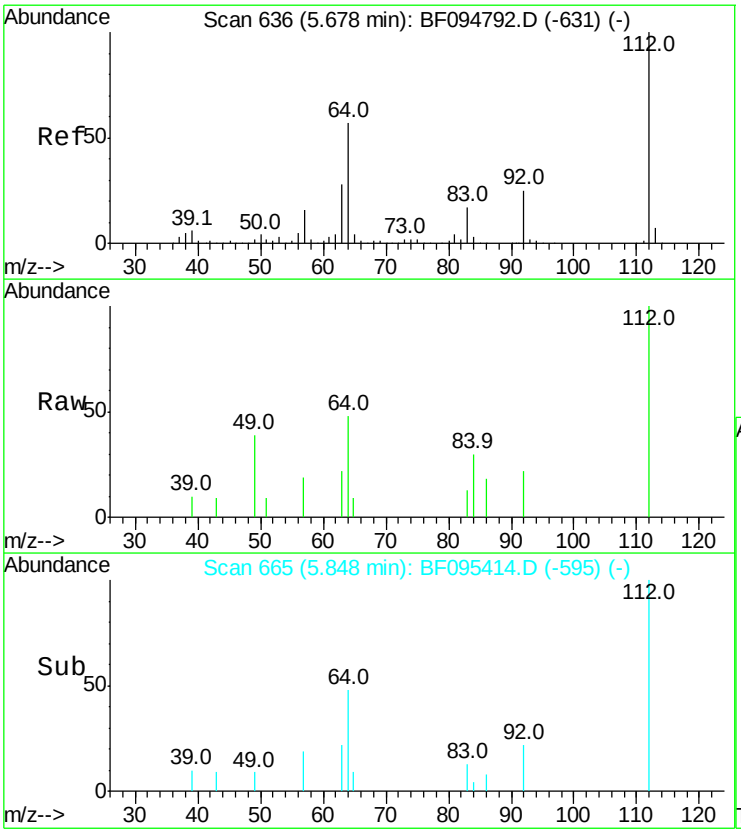
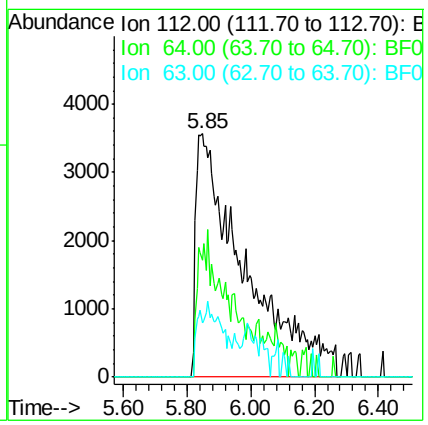
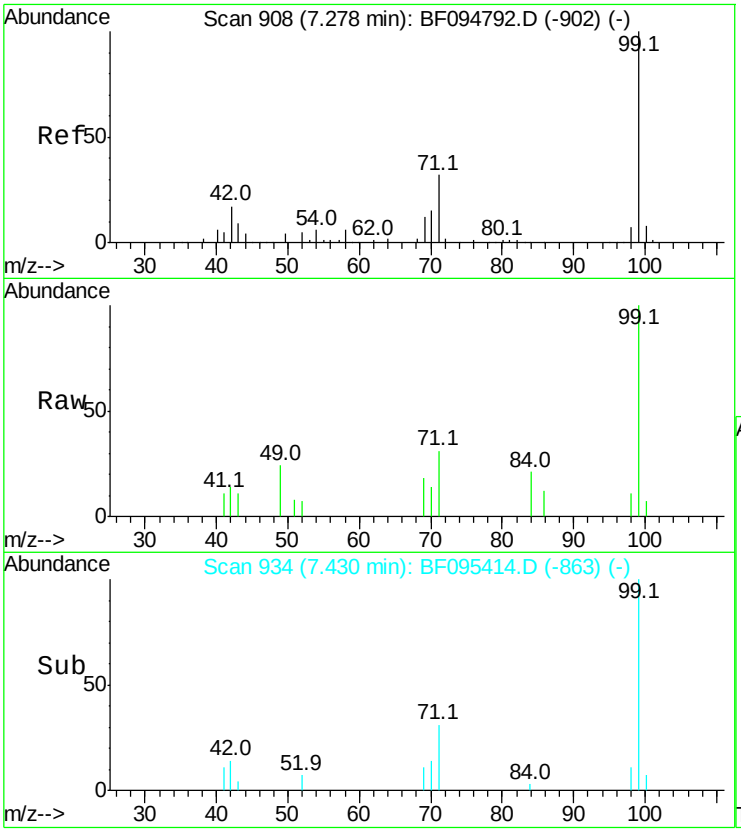



#5
2-Fluorophenol
Concen: 8.57 ng m
RT: 5.85 min Scan# 665
Delta R.T. 0.11 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:112 Resp: 37768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 48.1 | 46.0 | 69.0 |
| 63 | 22.4 | 23.4 | 35.0# |

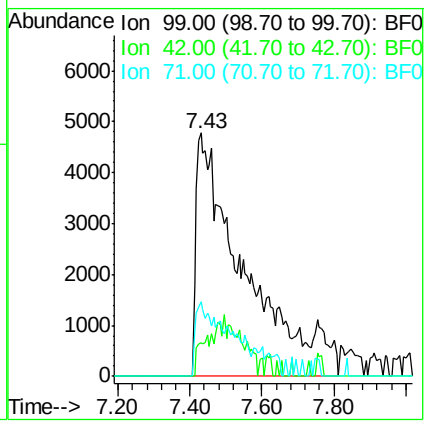





#7
Phenol-d6
Concen: 8.34 ng m
RT: 7.43 min Scan# 934
Delta R.T. 0.12 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion: 99 Resp: 44084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 13.8 | 13.5 | 20.3 |
| 71 | 30.8 | 24.5 | 36.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-T9-BASE

**Manual Integrations APPROVED**
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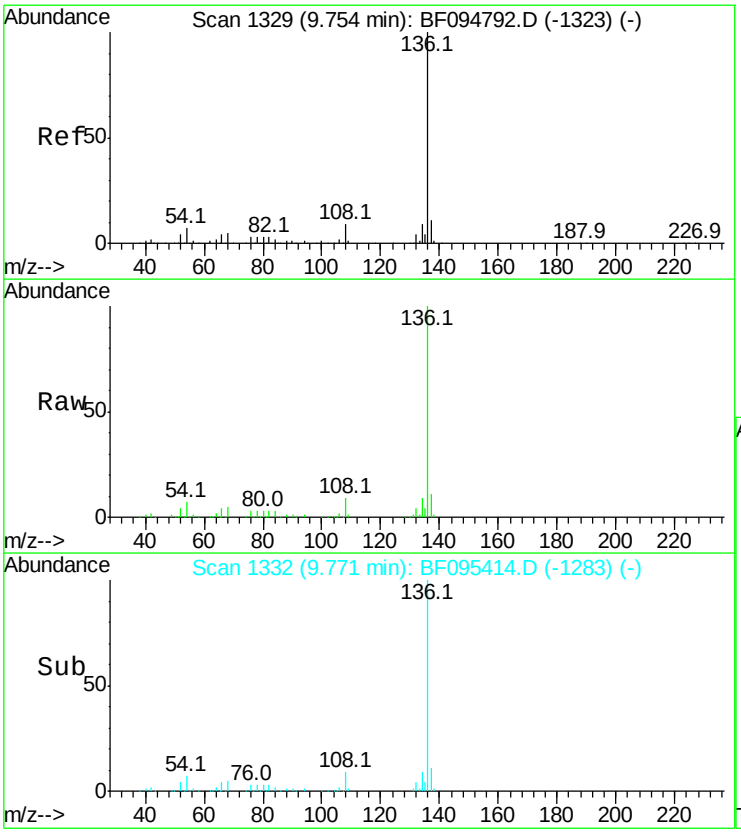
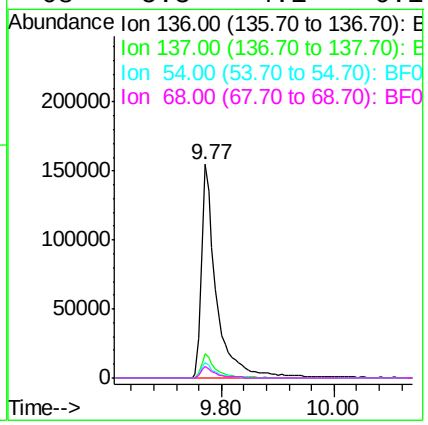
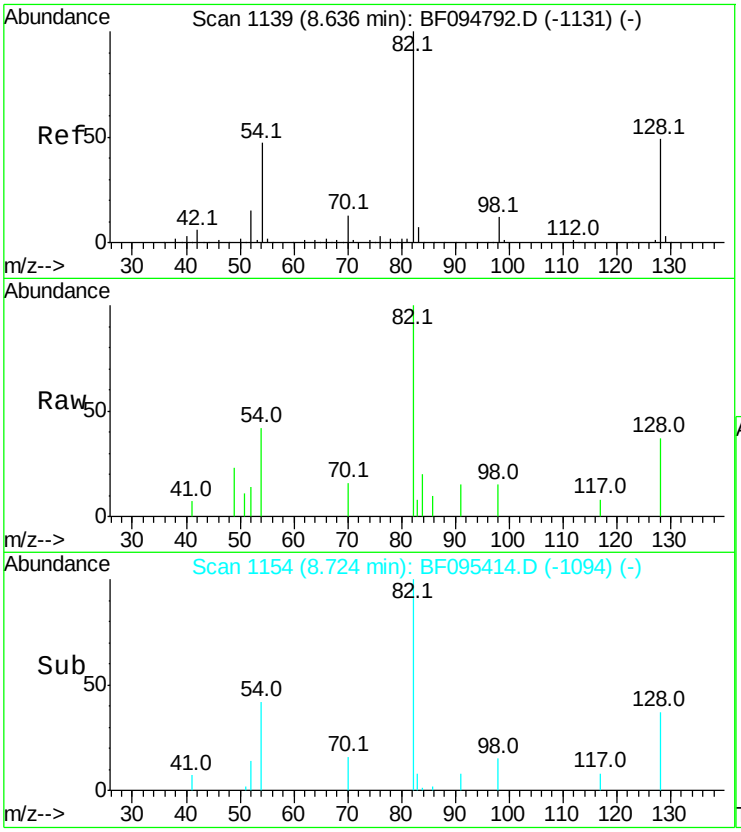



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.77 min Scan# 1332
Delta R.T. -0.01 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:136 Resp: 288750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 8.5 | 12.7 |
| 54 | 7.2 | 4.9 | 7.3 |
| 68 | 5.3 | 4.1 | 6.1 |






#23
Nitrobenzene-d5
Concen: 4.73 ng
RT: 8.72 min Scan# 1154
Delta R.T. 0.05 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion: 82 Resp: 21665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 37.1 | 34.0 | 51.0 |
| 54 | 42.0 | 42.2 | 63.2# |

**Instrument :**
BNA_F
**ClientSampleId :**
E2-T9-BASE

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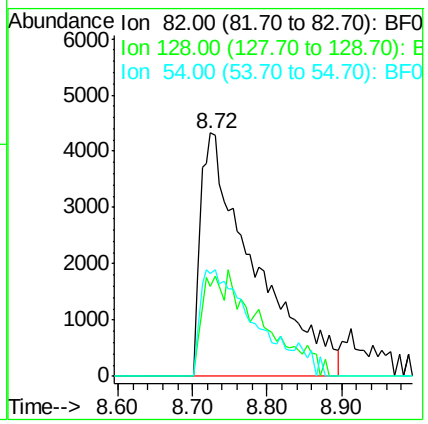
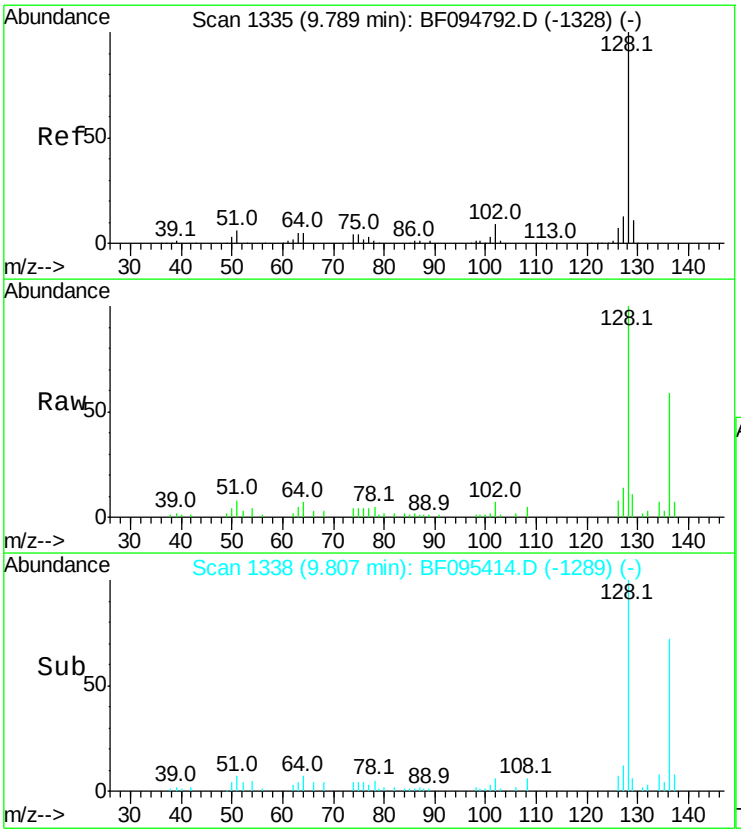
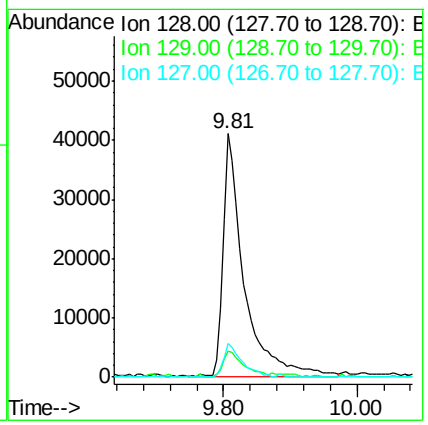


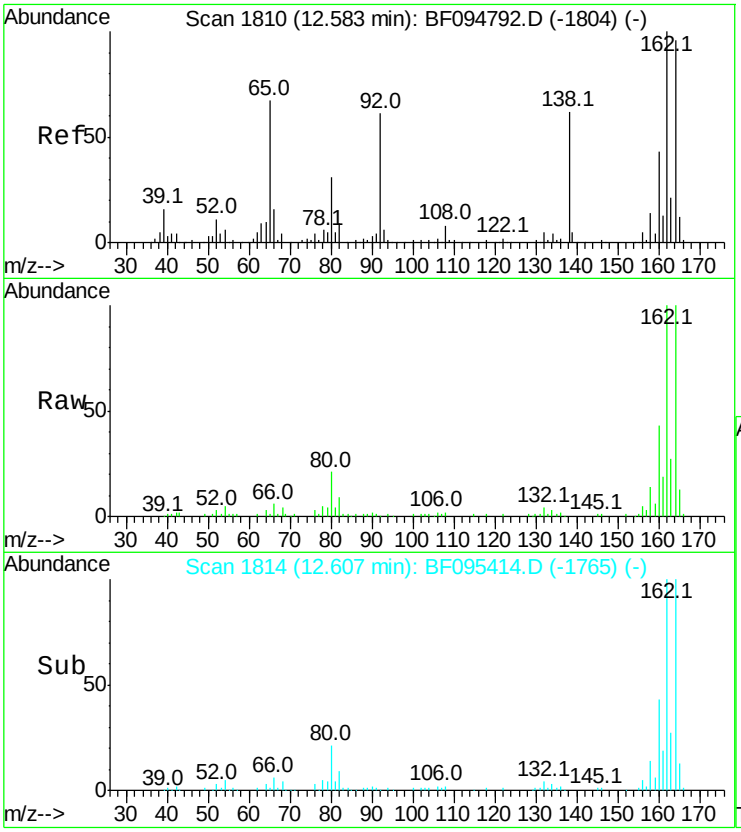




#31
Naphthalene
Concen: 6.33 ng
RT: 9.81 min Scan# 1338
Delta R.T. -0.01 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:128 Resp: 91932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.8 | 9.0 | 13.6 |
| 127 | 14.0 | 10.8 | 16.2 |

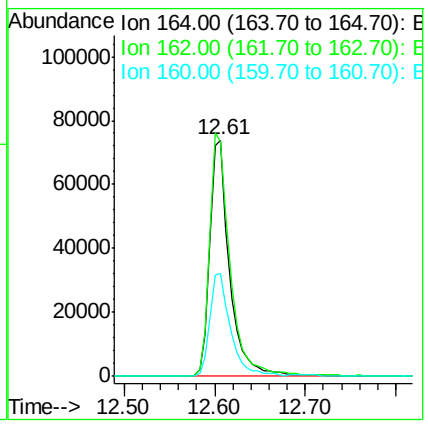





#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.61 min Scan# 1814
Delta R.T. -0.01 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:164 Resp: 113944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 99.5 | 82.6 | 123.8 |
| 160 | 43.4 | 36.2 | 54.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-T9-BASE

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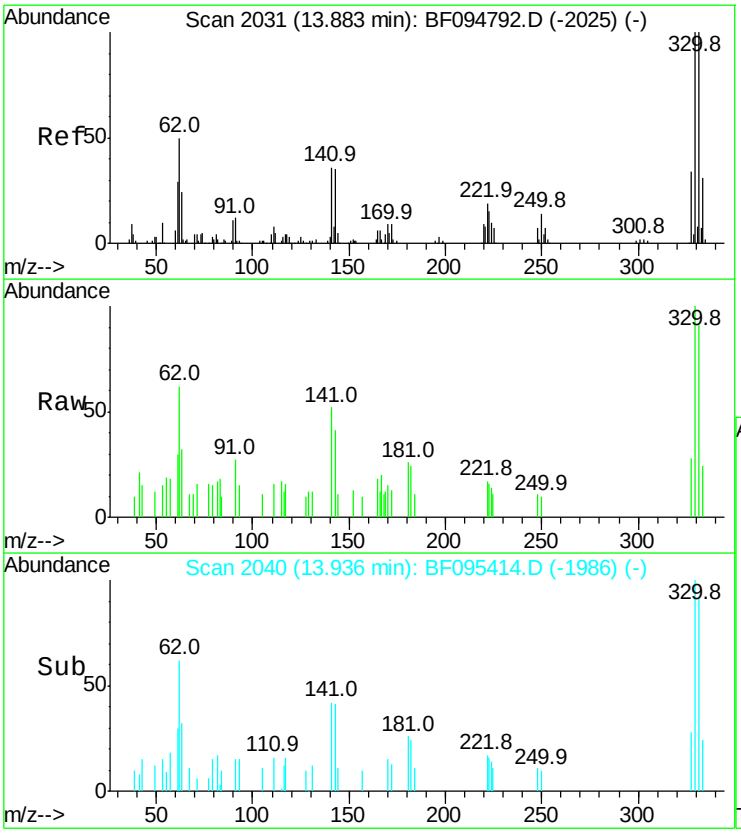
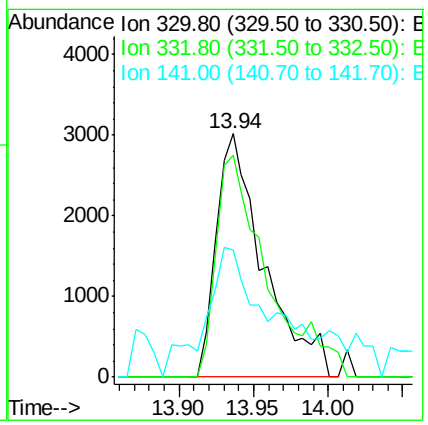
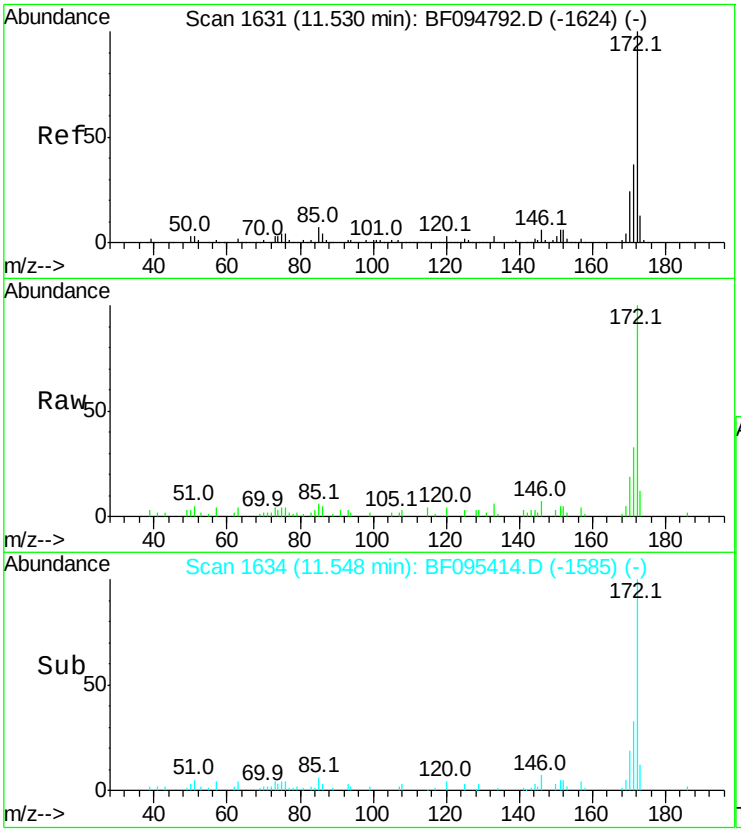



#41
2,4,6-Tribromophenol
Concen: 7.15 ng
RT: 13.94 min Scan# 2040
Delta R.T. 0.02 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:330 Resp: 6673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 98.8 | 76.6 | 115.0 |
| 141 | 73.9 | 31.4 | 47.2# |

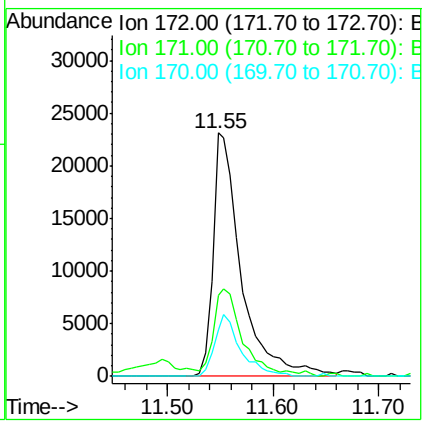





#44
2-Fluorobiphenyl
Concen: 5.46 ng
RT: 11.55 min Scan# 1634
Delta R.T. -0.01 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:172 Resp: 43201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 33.2 | 29.6 | 44.4 |
| 170 | 18.9 | 19.8 | 29.8# |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-T9-BASE

**Manual Integrations APPROVED**
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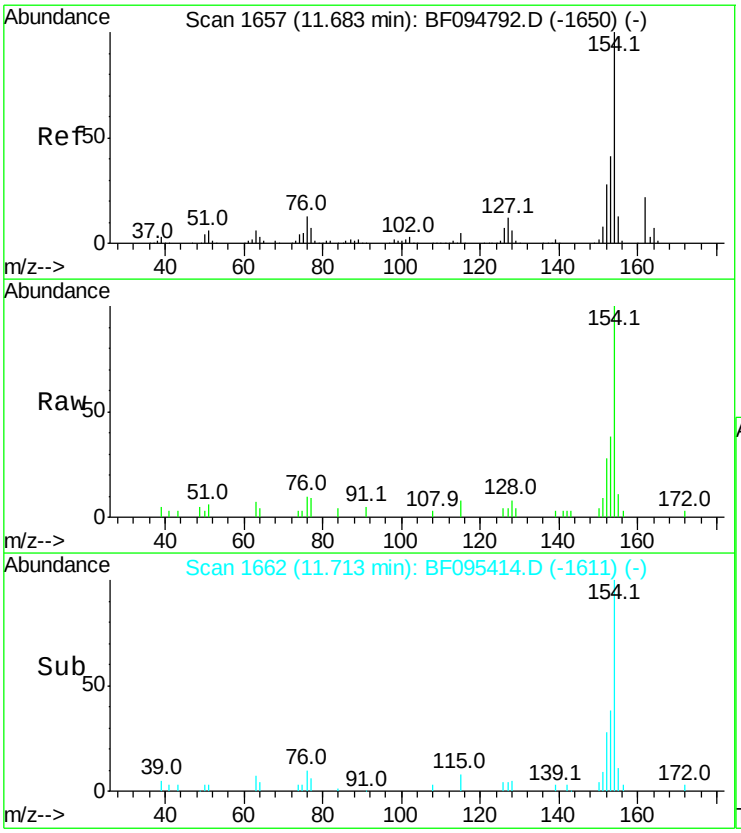
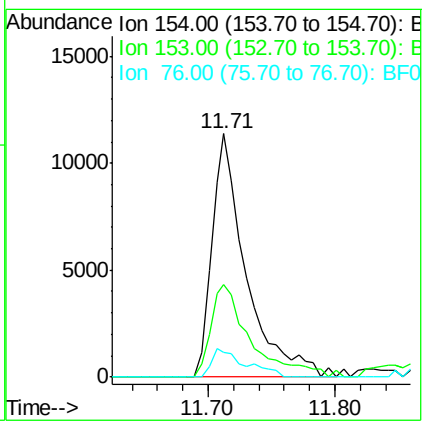
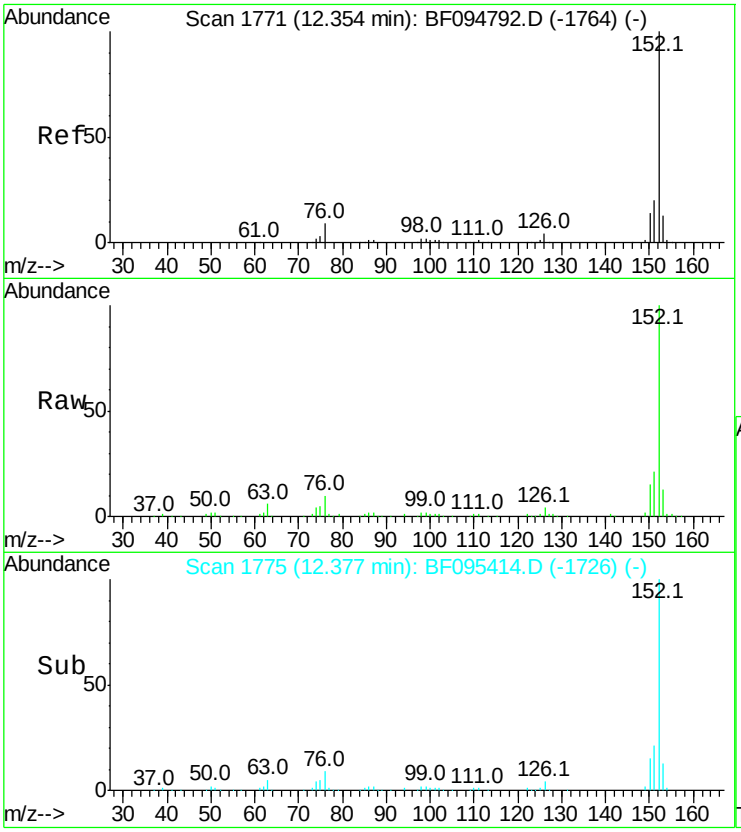



#45
1,1'-Biphenyl
Concen: 2.21 ng
RT: 11.71 min Scan# 1662
Delta R.T. -0.00 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:154 Resp: 21234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 38.0 | 21.2 | 61.2 |
| 76 | 10.3 | 0.0 | 29.9 |

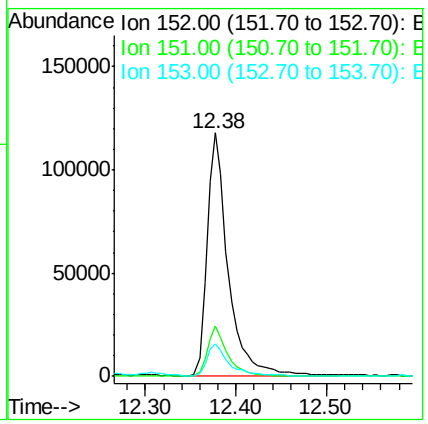





#48
Acenaphthylene
Concen: 15.93 ng
RT: 12.38 min Scan# 1775
Delta R.T. -0.01 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:152 Resp: 193287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.7 | 16.8 | 25.2 |
| 153 | 13.2 | 10.8 | 16.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-T9-BASE

**Manual Integrations APPROVED**
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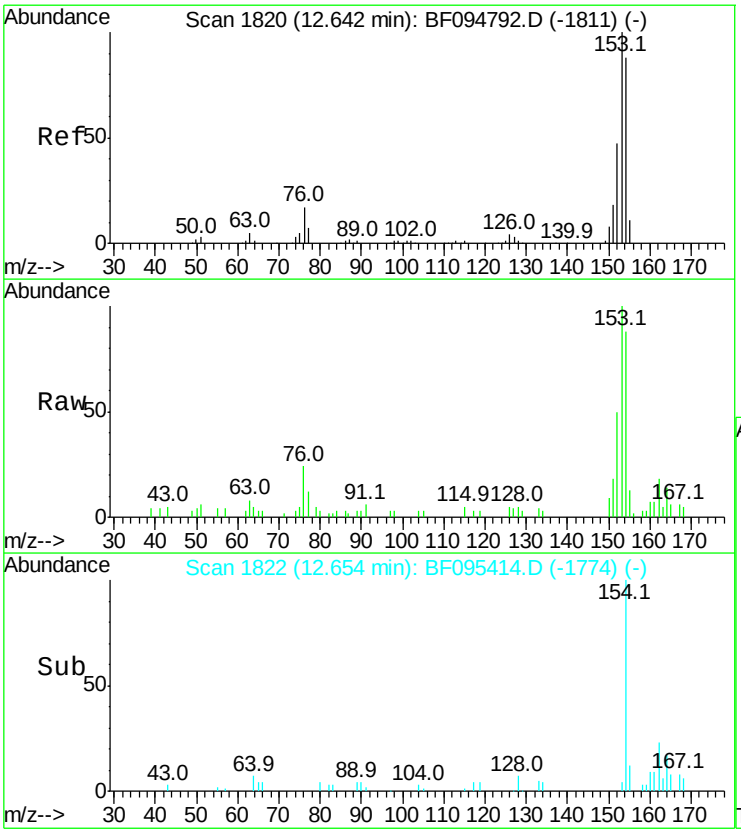
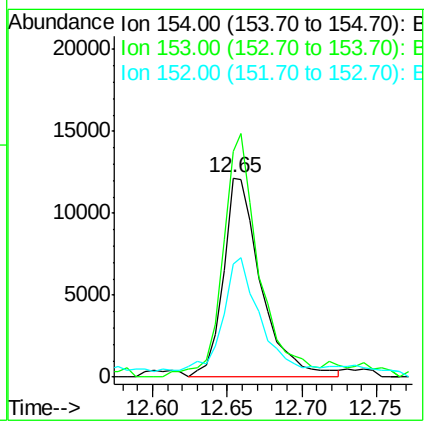
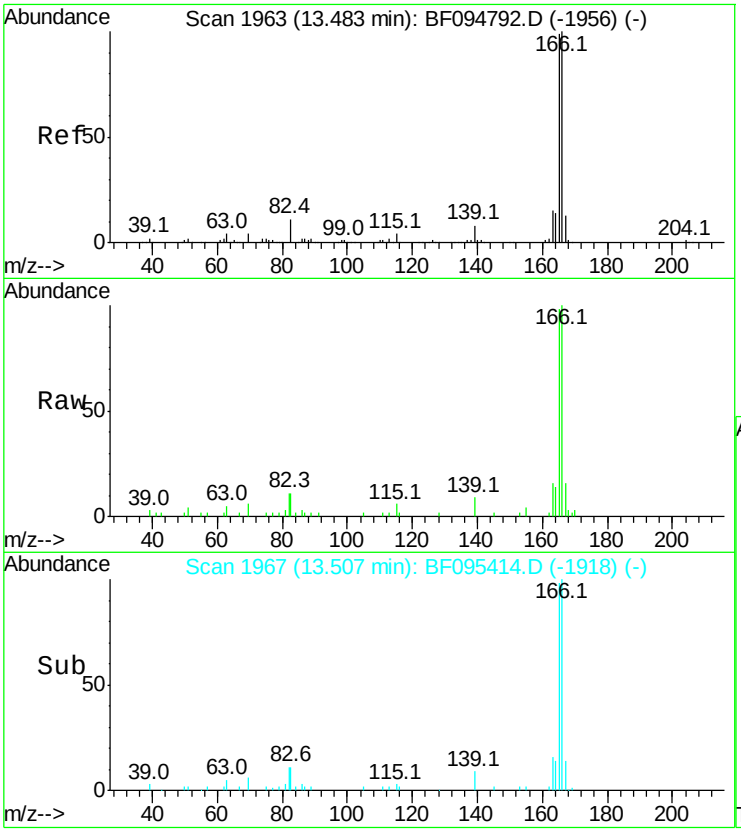



#51
Acenaphthene
Concen: 2.98 ng
RT: 12.65 min Scan# 1822
Delta R.T. -0.02 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:154 Resp: 21611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 113.4 | 90.5 | 135.7 |
| 152 | 56.7 | 43.6 | 65.4 |

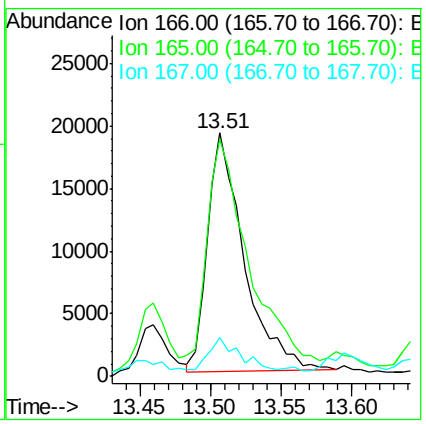





#57
Fluorene
Concen: 3.94 ng
RT: 13.51 min Scan# 1967
Delta R.T. -0.01 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:166 Resp: 34321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.7 | 78.8 | 118.2 |
| 167 | 15.9 | 10.6 | 16.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-T9-BASE

**Manual Integrations APPROVED**
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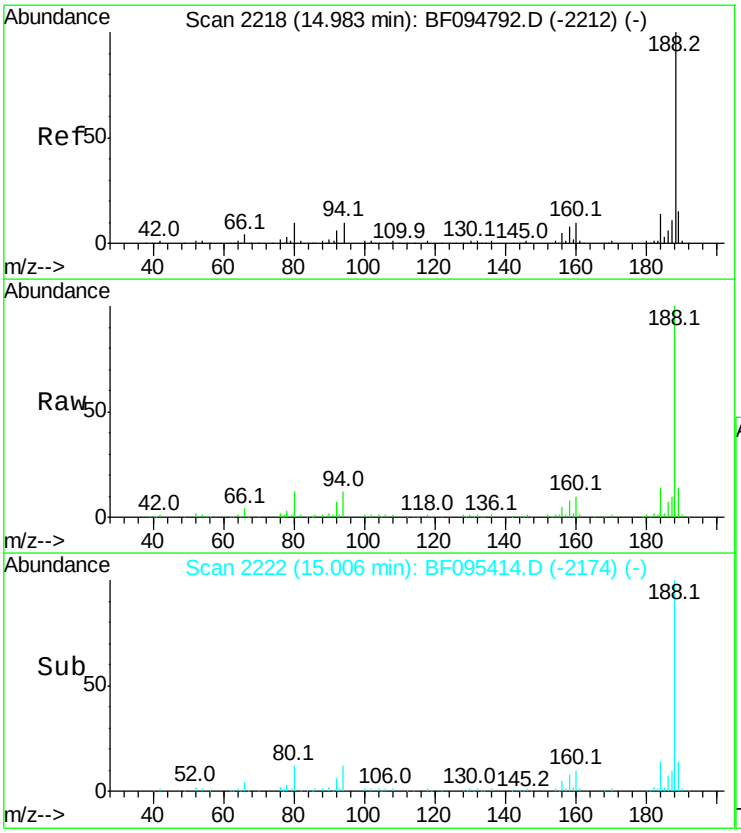
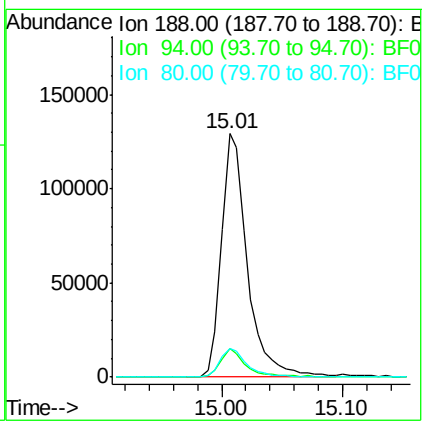
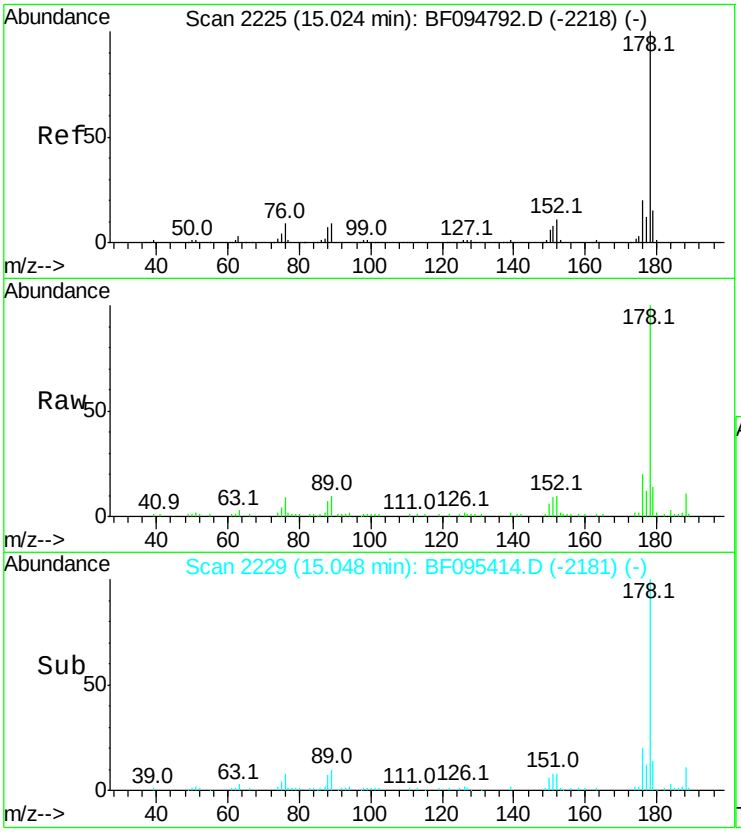



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 15.01 min Scan# 2222
Delta R.T. -0.02 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:188 Resp: 192433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 11.6 | 9.4 | 14.2 |
| 80 | 12.0 | 10.2 | 15.2 |

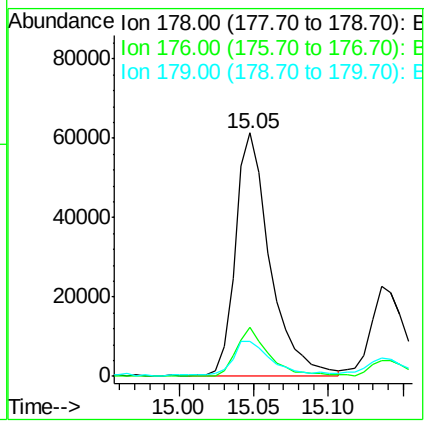





#70
Phenanthrene
Concen: 9.02 ng
RT: 15.05 min Scan# 2229
Delta R.T. -0.02 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:178 Resp: 99722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.1 | 16.2 | 24.4 |
| 179 | 14.4 | 12.6 | 19.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-T9-BASE

**Manual Integrations APPROVED**
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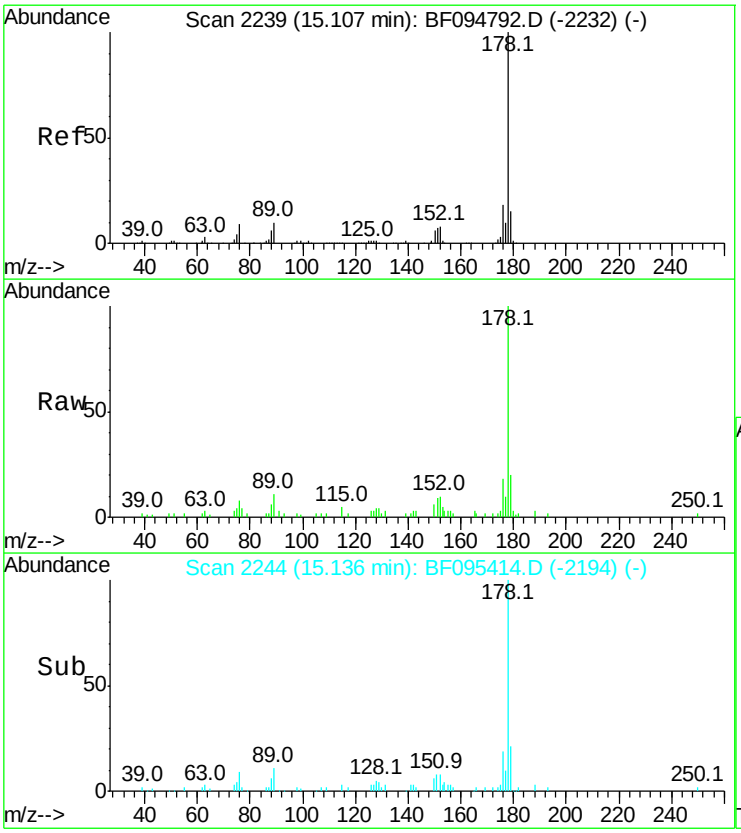
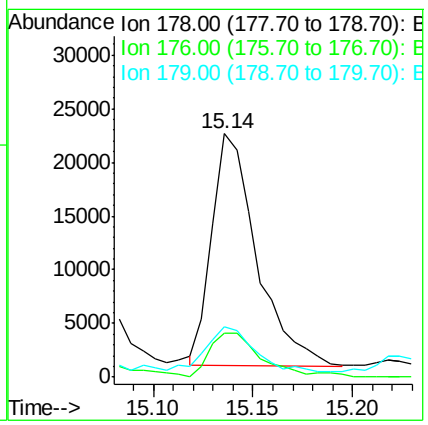
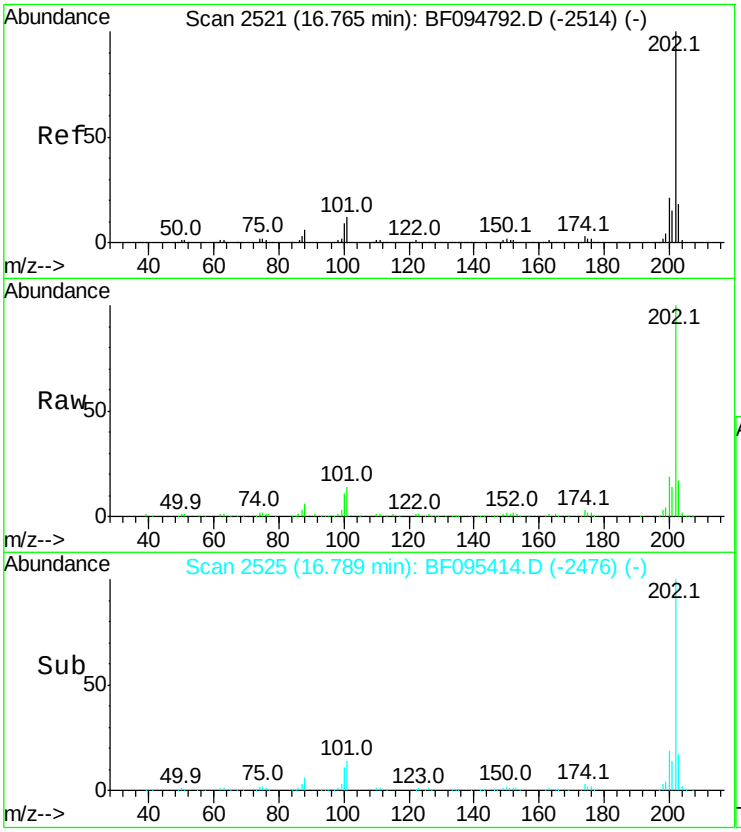



#71
Anthracene
Concen: 3.01 ng m
RT: 15.14 min Scan# 2244
Delta R.T. -0.01 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:178 Resp: 33952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.1 | 15.8 | 23.8 |
| 179 | 20.5 | 12.7 | 19.1# |

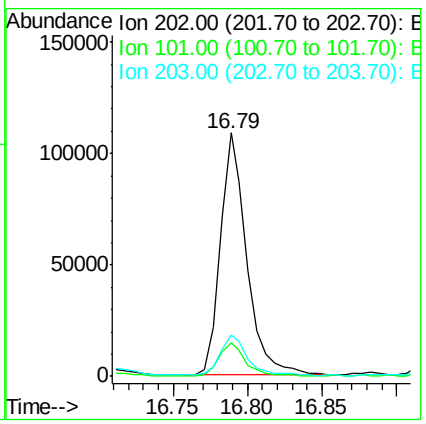





#74
Fluoranthene
Concen: 11.89 ng
RT: 16.79 min Scan# 2525
Delta R.T. -0.01 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:202 Resp: 134821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.6 | 0.0 | 33.2 |
| 203 | 17.2 | 0.0 | 38.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-T9-BASE

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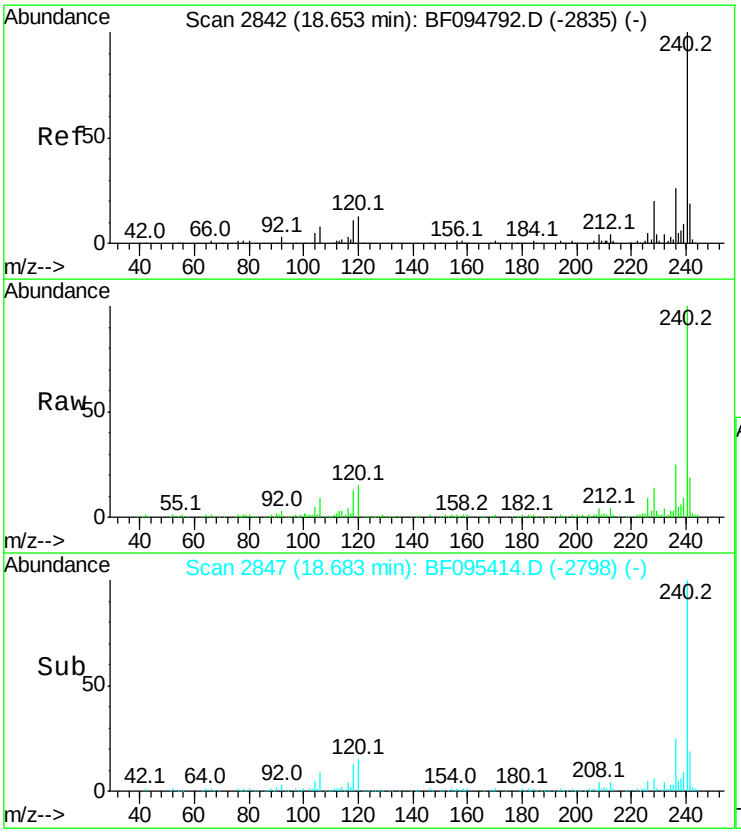
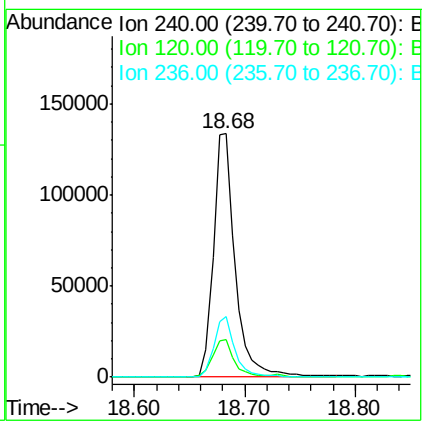
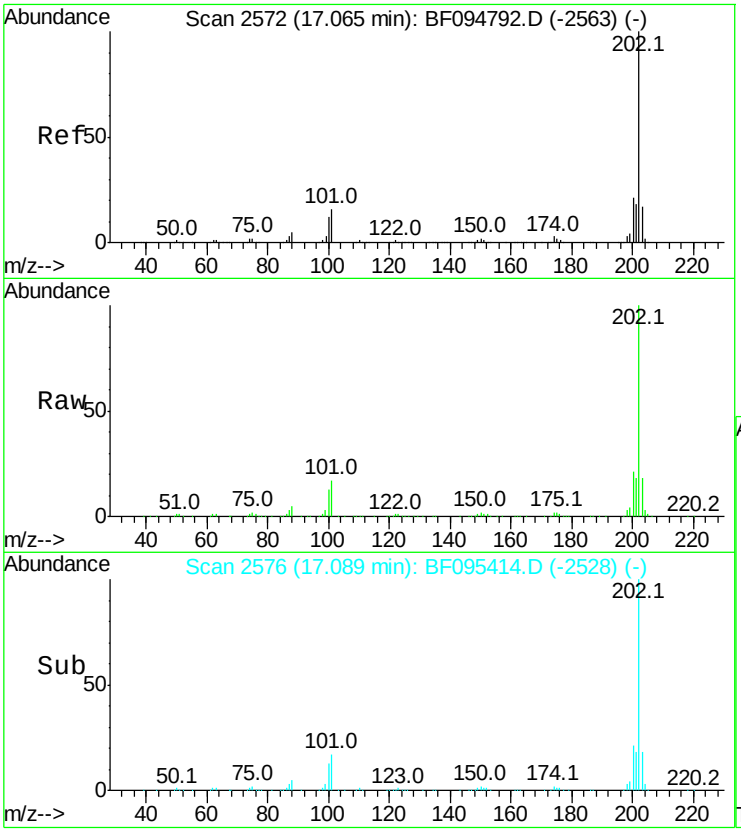



#75
Chrysene-d12
Concen: 20.00 ng
RT: 18.68 min Scan# 2847
Delta R.T. -0.01 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:240 Resp: 182262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 15.2 | 5.8 | 8.8# |
| 236 | 24.9 | 20.5 | 30.7 |

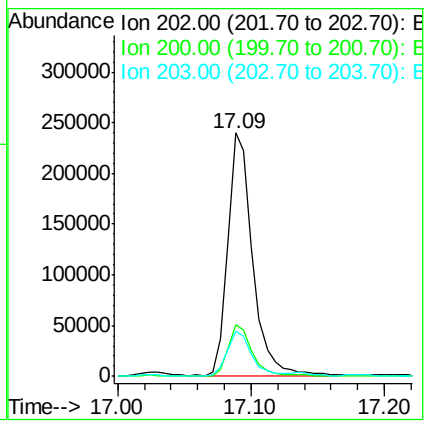





#77
Pyrene
Concen: 22.76 ng
RT: 17.09 min Scan# 2576
Delta R.T. -0.02 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:202 Resp: 310243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.3 | 17.6 | 26.4 |
| 203 | 18.4 | 14.4 | 21.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-T9-BASE

**Manual Integrations APPROVED**
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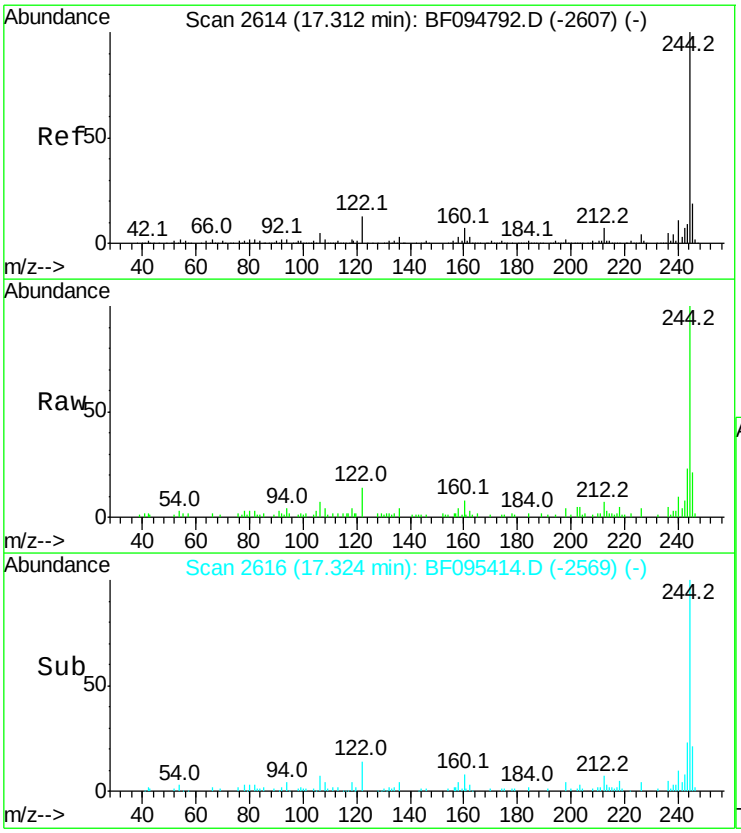
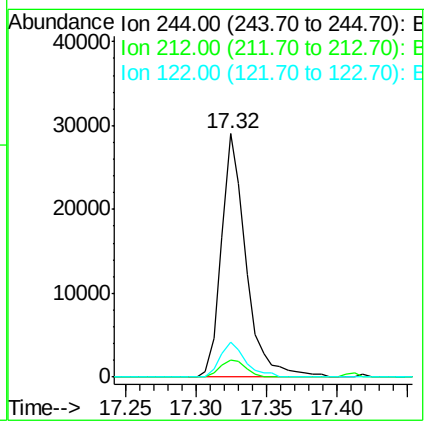
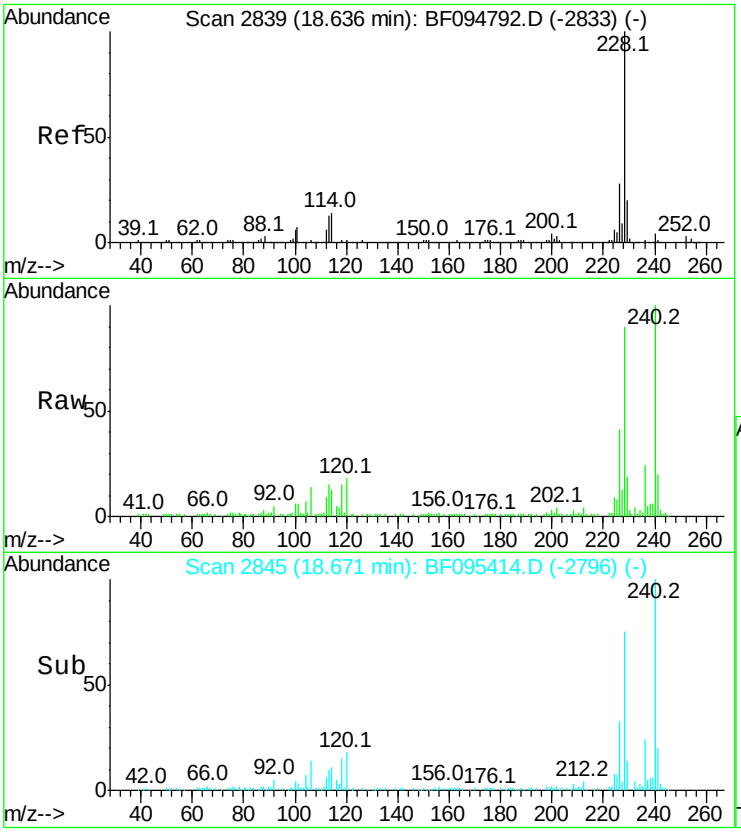



#78
Terphenyl-d14
Concen: 4.25 ng
RT: 17.32 min Scan# 2616
Delta R.T. -0.02 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:244 Resp: 35164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.8 | 6.0 | 9.0 |
| 122 | 14.5 | 10.3 | 15.5 |

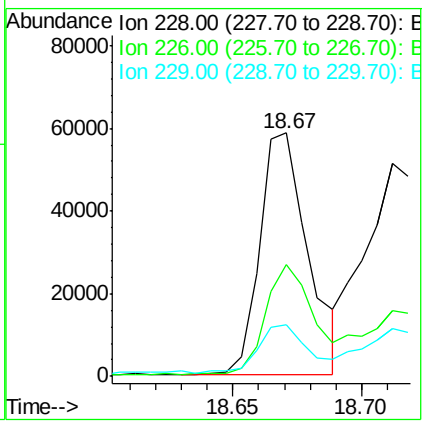





#80
Benzo(a)anthracene
Concen: 7.21 ng m
RT: 18.67 min Scan# 2845
Delta R.T. -0.01 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:228 Resp: 76474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 45.8 | 22.6 | 33.8# |
| 229 | 21.4 | 16.3 | 24.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-T9-BASE

**Manual Integrations APPROVED**
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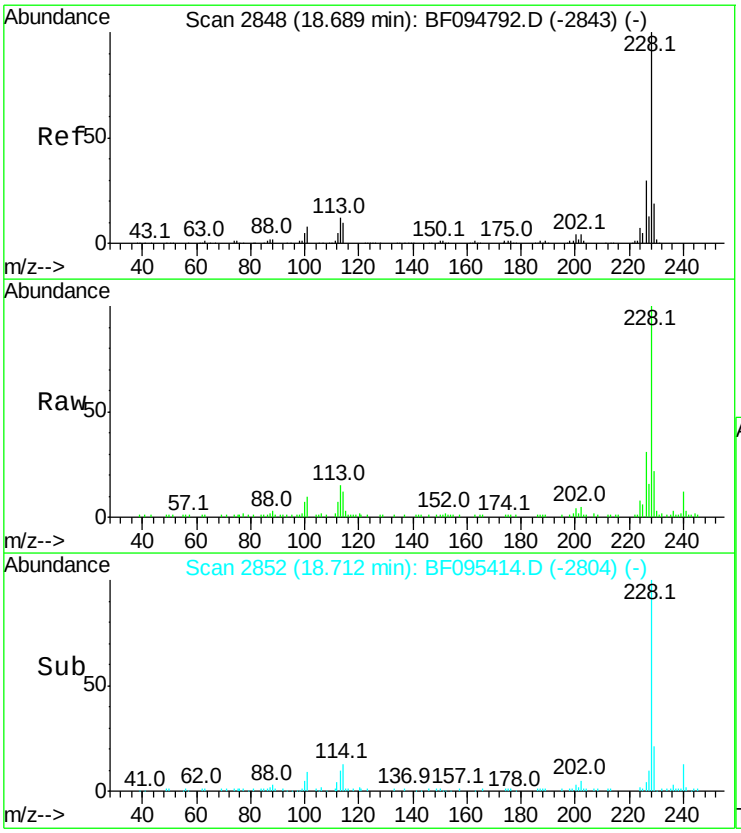
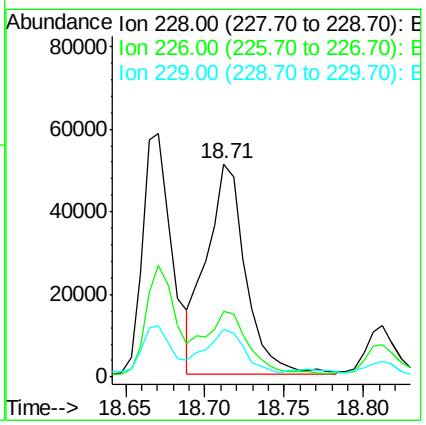
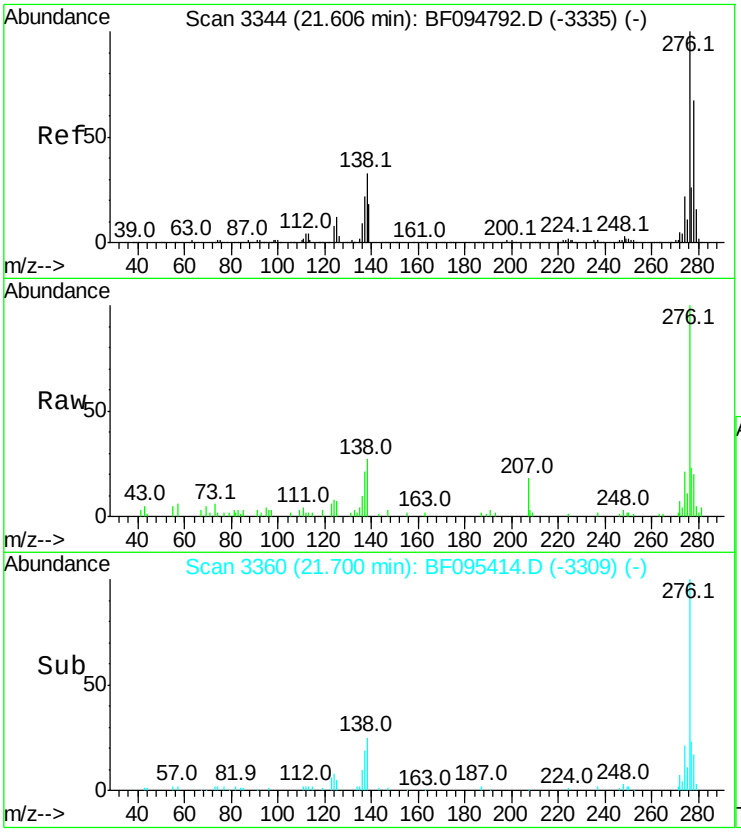



#82
Chrysene
Concen: 8.53 ng
RT: 18.71 min Scan# 2852
Delta R.T. -0.02 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:228 Resp: 87488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.8 | 24.9 | 37.3 |
| 229 | 22.2 | 15.8 | 23.6 |

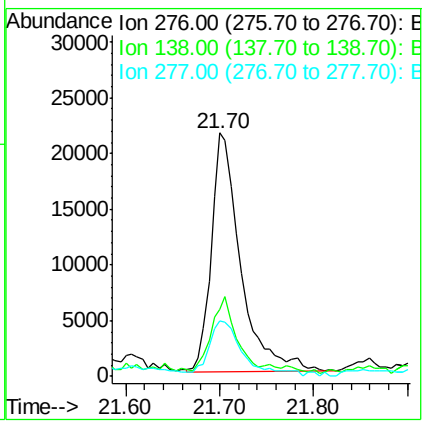





#85
Indeno(1,2,3-cd)pyrene
Concen: 5.62 ng
RT: 21.70 min Scan# 3360
Delta R.T. -0.00 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:276 Resp: 46791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.2 | 27.8 | 41.6# |
| 277 | 27.2 | 20.2 | 30.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-T9-BASE

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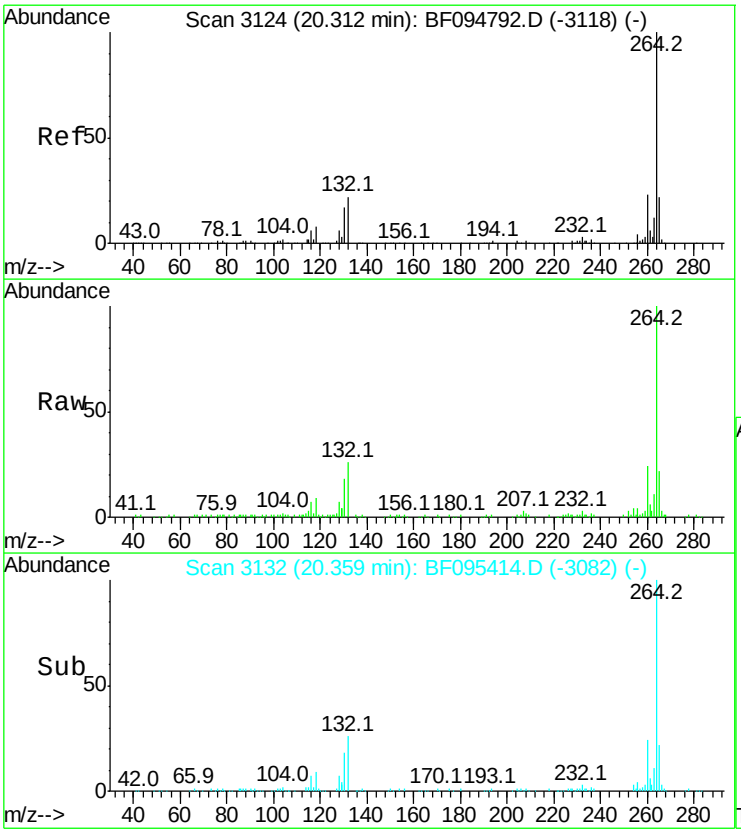
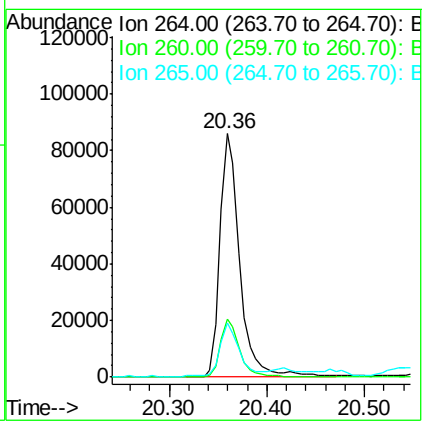
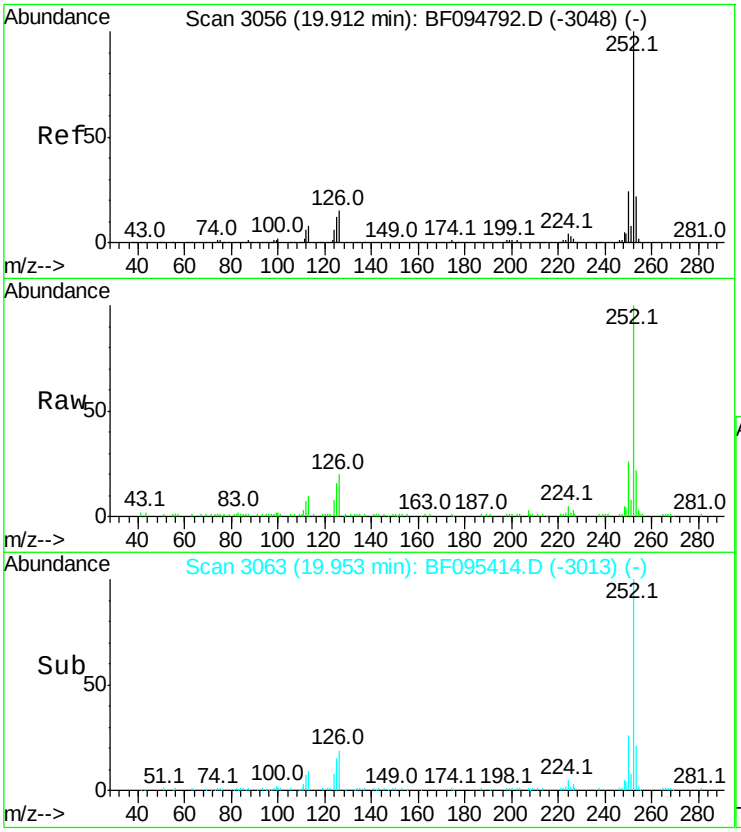



#86
Perylene-d12
Concen: 20.00 ng
RT: 20.36 min Scan# 3132
Delta R.T. -0.01 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:264 Resp: 121711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.7 | 19.5 | 29.3 |
| 265 | 22.2 | 17.2 | 25.8 |






#87
Benzo(b)fluoranthene
Concen: 13.19 ng m
RT: 19.95 min Scan# 3063
Delta R.T. -0.01 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:252 Resp: 99215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.6 | 18.1 | 27.1 |
| 125 | 15.7 | 9.8 | 14.8# |

**Instrument :**
BNA_F
**ClientSampleId :**
E2-T9-BASE

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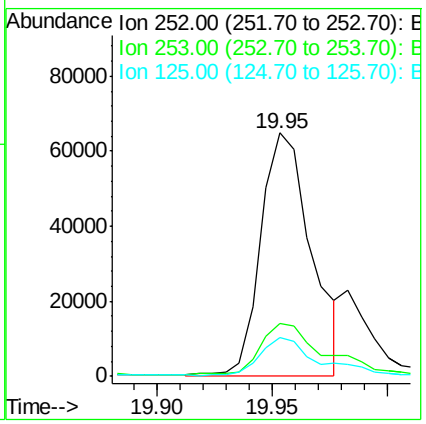
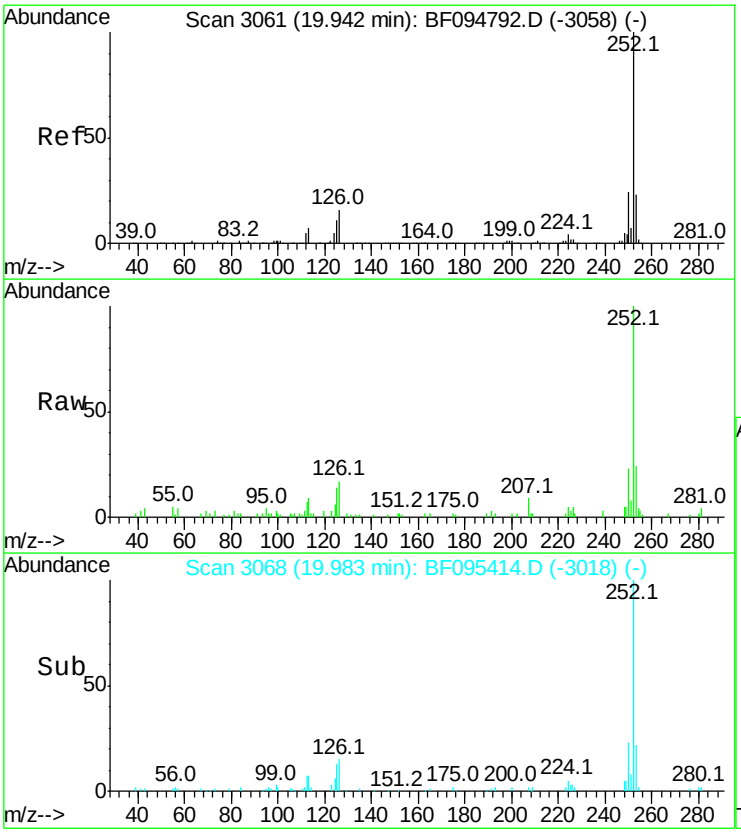
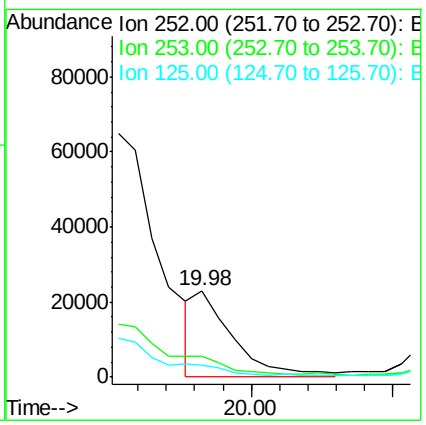


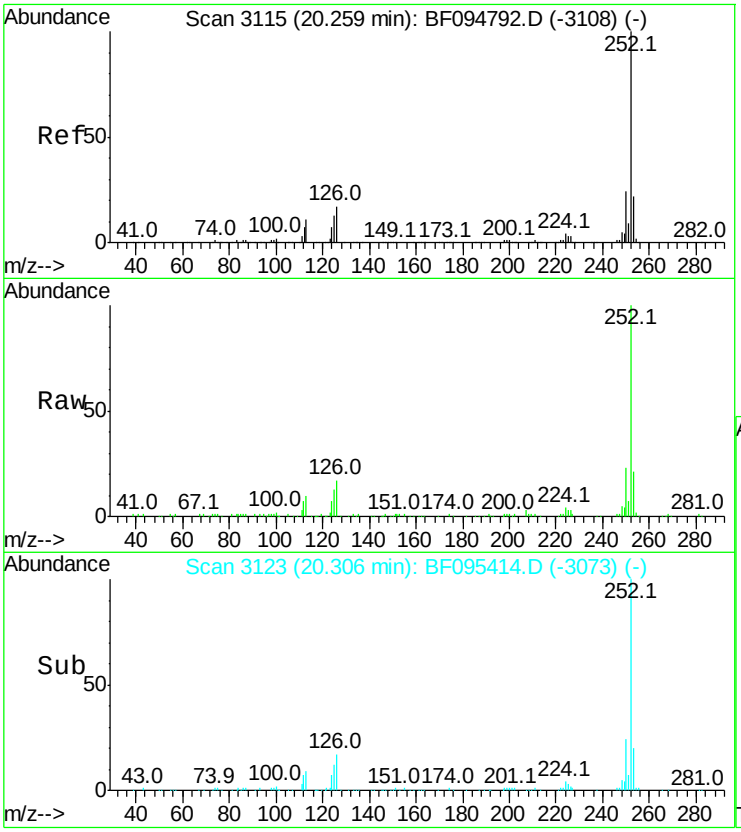




#88
Benzo(k)fluoranthene
Concen: 3.07 ng m
RT: 19.98 min Scan# 3068
Delta R.T. -0.01 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:252 Resp: 22272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.2 | 18.4 | 27.6 |
| 125 | 14.2 | 13.1 | 19.7 |

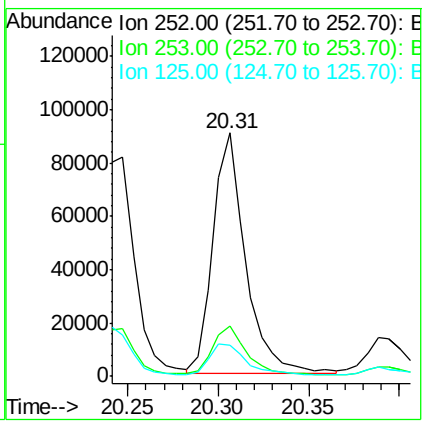





#89
Benzo(a)pyrene
Concen: 16.33 ng
RT: 20.31 min Scan# 3123
Delta R.T. -0.01 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:252 Resp: 113347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 20.5 | 17.5 | 26.3 |
| 125 | 12.5 | 11.0 | 16.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-T9-BASE

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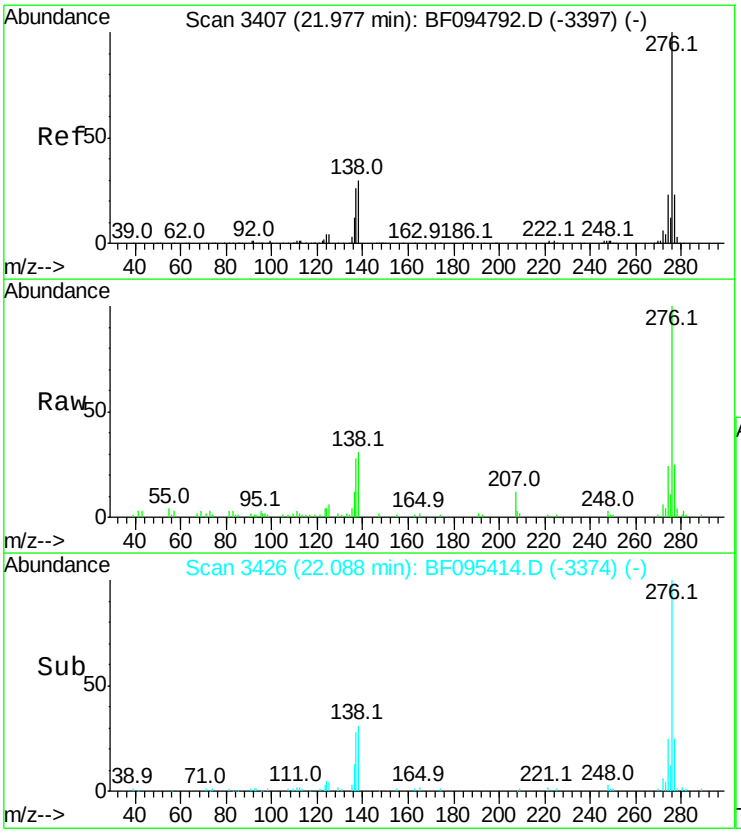


#91
Benzo(g,h,i)perylene
Concen: 13.15 ng
RT: 22.09 min Scan# 3426
Delta R.T. 0.01 min
Lab File: BF095414.D
Acq: 25 May 2017 8:17

Tgt Ion:276 Resp: 73972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.8 | 18.6 | 28.0 |
| 138 | 31.3 | 25.4 | 38.0 |