Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061017\
Data File : BM010511.D
Acq On : 11 Jun 2017 06:34
Operator : SJ/MA
Sample : I3521-10
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5C58

**Manual Integrations APPROVED**
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Quant Time: Jun 12 09:22:18 2017
Quant Method : Z:\HPCHEM1\BNA_M\Methods\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Jun 12 09:00:37 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.89 | 152 | 185062 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.72 | 136 | 686695 | 20.00 | ng/ul | 0.02 |
| 35) Acenaphthene-d10 | 14.53 | 164 | 572230 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.29 | 188 | 1392102 | 20.00 | ng/ul | 0.02 |
| 75) Chrysene-d12 | 21.46 | 240 | 2350024 | 20.00 | ng/ul | 0.01 |
| 83) Perylene-d12 | 23.79 | 264 | 1827092 | 20.00 | ng/ul | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 3) 1,4-Dioxane-d8 | 3.37 | 96 | 12223 | 2.71 | ng/uL | 0.01 |
| 5) Phenol-d5 | 7.08 | 99 | 182052 | 12.98 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d | 7.23 | 67 | 109219 | 13.86 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4 | 7.43 | 132 | 156799 | 14.03 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8 | 8.61 | 113 | 151006 | 13.35 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5 | 9.07 | 128 | 76863 | 15.28 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4 | 9.79 | 143 | 95152 | 16.33 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3 | 10.33 | 165 | 190519 | 15.92 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4 | 10.86 | 131 | 370397 | 32.07 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6 | 13.95 | 166 | 755286 | 15.89 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8 | 14.23 | 160 | 830768 | 14.98 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4 | 14.78 | 143 | 89834 | 12.63 | ng/ul | 0.00 |
| 57) Fluorene-d10 | 15.53 | 176 | 659809 | 15.79 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.69 | 200 | 125667 | 12.74 | ng/ul | 0.04 |
| 70) Anthracene-d10 | 17.40 | 188 | 1443370 | 21.31 | ng/ul | 0.03 |
| 76) Pyrene-d10 | 19.68 | 212 | 1925328 | 19.81 | ng/ul | 0.02 |
| 87) Benzo(a)pyrene-d12 | 23.64 | 264 | 1509822 | 17.75 | ng/ul | 0.01 |
| **Target Compounds** | | | | | | Qvalue |
| 28) Naphthalene | 10.75 | 128 | 37318948m | 1083.506 | ng/ul | |
| 34) 2-Methylnaphthalene | 12.36 | 142 | 24428472m | 935.455 | ng/ul | |
| 40) 1,1'-Biphenyl | 13.37 | 154 | 10836254 | 233.434 | ng/ul | 99 |
| 44) Dimethylphthalate | 14.00 | 163 | 614542 | 13.143 | ng/ul | 100 |
| 47) Acenaphthylene | 14.26 | 152 | 983497 | 18.146 | ng/ul# | 89 |
| 49) Acenaphthene | 14.60 | 153 | 21149647m | 556.390 | ng/ul | |
| 53) Dibenzofuran | 14.93 | 168 | 21834308m | 388.453 | ng/ul | |
| 58) Fluorene | 15.59 | 166 | 22991013m | 498.650 | ng/ul | |
| 69) Phenanthrene | 17.32 | 178 | 38902793m | 523.466 | ng/ul | |
| 71) Anthracene | 17.43 | 178 | 15122655m | 194.918 | ng/ul | |
| 72) Carbazole | 17.71 | 167 | 9303864 | 141.678 | ng/ul | 98 |
| 74) Fluoranthene | 19.33 | 202 | 30253645m | 331.040 | ng/ul | |
| 77) Pyrene | 19.70 | 202 | 28964054m | 239.178 | ng/ul | |
| 80) Benzo(a)anthracene | 21.43 | 228 | 16472141 | 124.298 | ng/ul# | 66 |
| 82) Chrysene | 21.49 | 228 | 14883936 | 124.245 | ng/ul# | 64 |
| 85) Benzo(b)fluoranthene | 23.08 | 252 | 10850636 | 102.061 | ng/ul | 99 |
| 86) Benzo(k)fluoranthene | 23.12 | 252 | 3343962m | 32.925 | ng/ul | |
| 88) Benzo(a)pyrene | 23.69 | 252 | 5988929 | 56.831 | ng/ul | 99 |
| 89) Indeno(1,2,3-cd)pyrene | 26.16 | 276 | 2017848 | 15.156 | ng/ul | 98 |
| 90) Dibenzo(a,h)anthracene | 26.16 | 278 | 568207 | 4.955 | ng/ul# | 89 |
| 91) Benzo(g,h,i)perylene | 26.90 | 276 | 1345354 | 12.265 | ng/ul | 96 |

Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061017\
Data File : BM010511.D
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Operator : SJ/MA
Sample : I3521-10
Misc :
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jun 12 09:22:18 2017
Quant Method : Z:\HPCHEM1\BNA_M\Methods\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Jun 12 09:00:37 2017
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
F5C58

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| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061017\
Data File : BM010511.D
Acq On : 11 Jun 2017 06:34
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Sample : I3521-10
Misc :
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Quant Method : Z:\HPCHEM1\BNA_M\Methods\SOM-EPA-BM052717.M
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QLast Update : Mon Jun 12 09:00:37 2017
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**Instrument :**
BNA_M
**ClientSampleId :**
F5C58

**Manual Integrations APPROVED**
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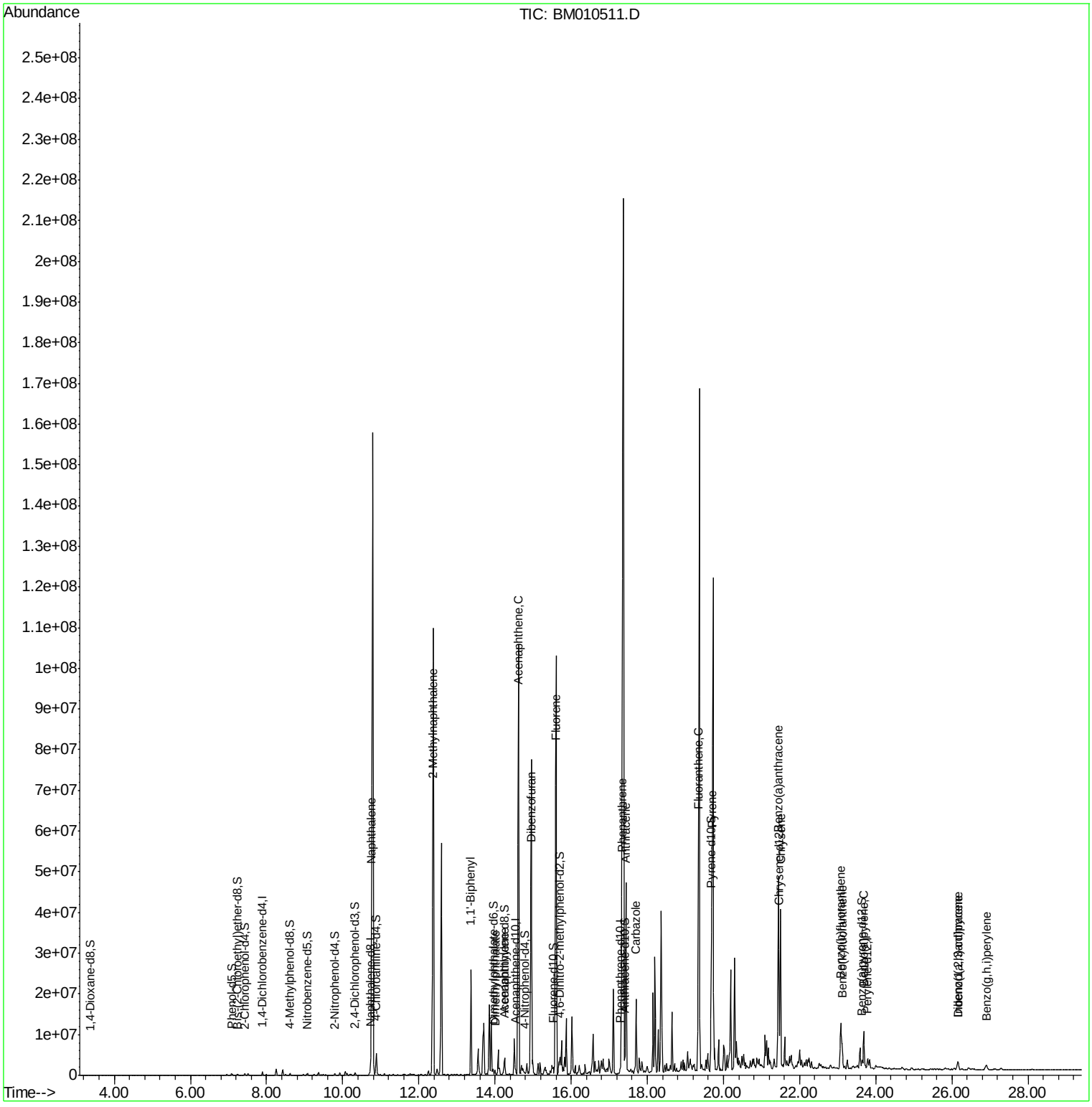
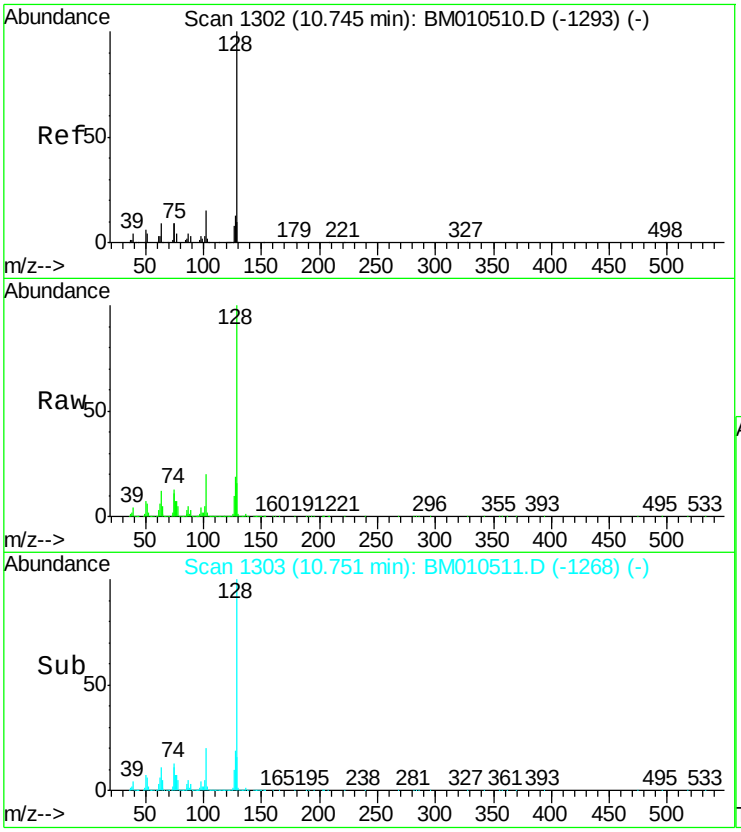
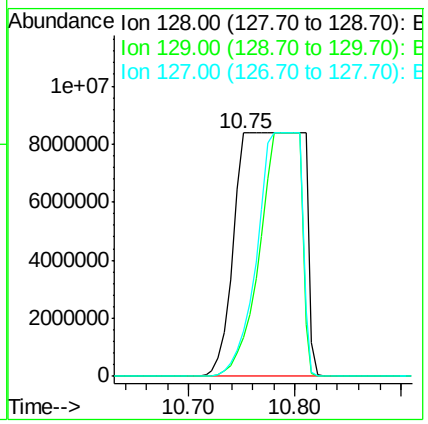





#28
Naphthalene
Concen: 1083.506 ng/ul m
RT: 10.75 min  Scan# 1303
Delta R.T.  0.01 min
Lab File:  BM010511.D
Acq: 11 Jun 2017  06:34

Tgt Ion:128 Resp:37318948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 15.9 | 8.8 | 13.2# |
| 127 | 18.8 | 10.6 | 16.0# |




**Instrument :**
BNA_M
**ClientSampleId :**
F5C58

**Manual Integrations APPROVED**
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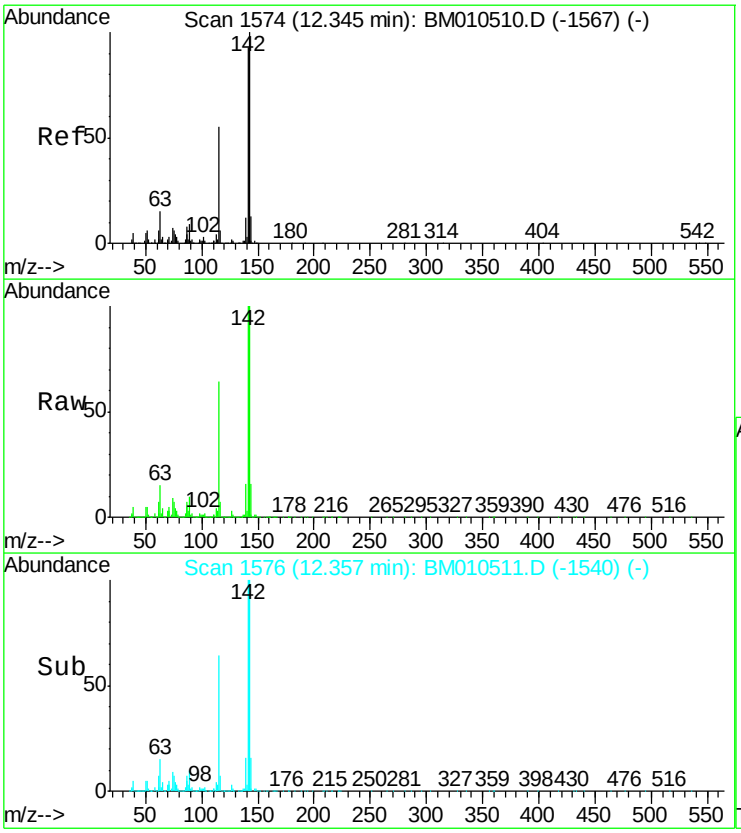
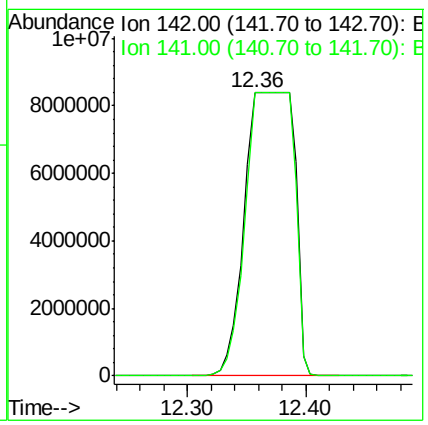
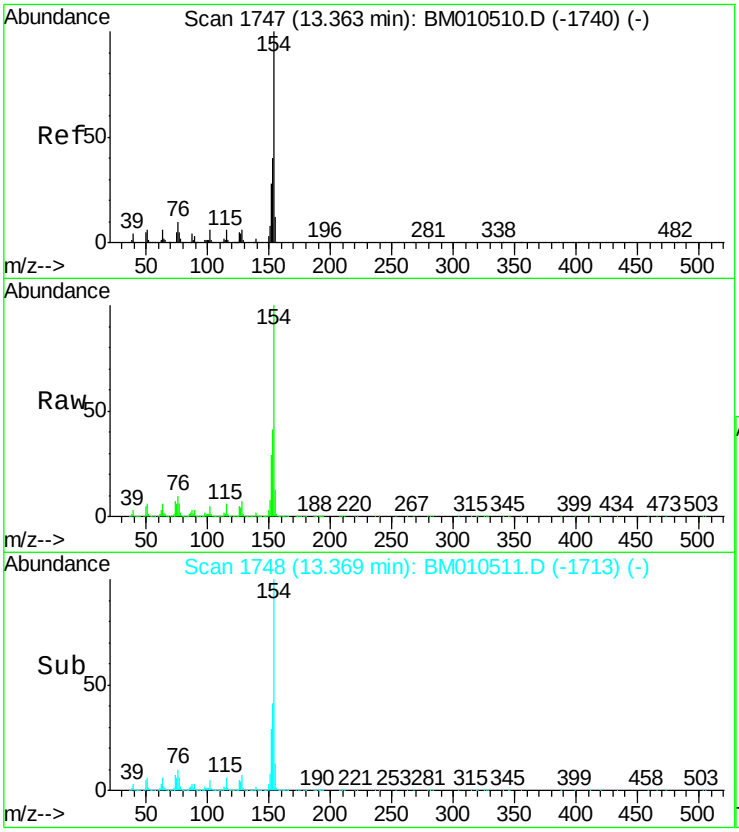



#34
2-Methylnaphthalene
Concen:  935.455 ng/ul m
RT: 12.36 min  Scan# 1576
Delta R.T.  0.01 min
Lab File:  BM010511.D
Acq: 11 Jun 2017  06:34

Tgt Ion:142 Resp:24428472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 100.0 | 74.1 | 111.1 |

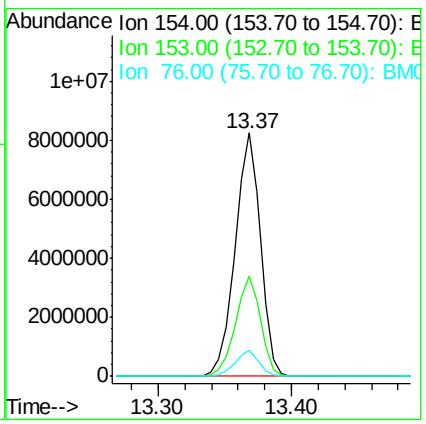





#40
1,1'-Biphenyl
Concen: 233.434 ng/ul
RT: 13.37 min Scan# 1748
Delta R.T. 0.01 min
Lab File: BM010511.D
Acq: 11 Jun 2017 06:34

Tgt Ion:154 Resp:10836254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 41.3 | 32.6 | 48.8 |
| 76 | 10.5 | 8.5 | 12.7 |




**Instrument :**
BNA_M
**ClientSampleId :**
F5C58

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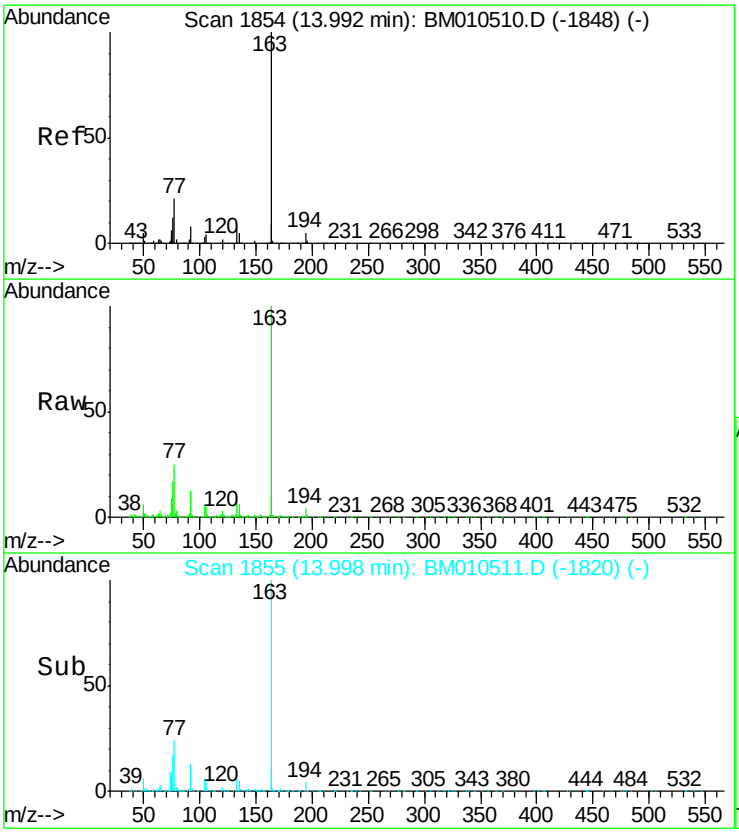
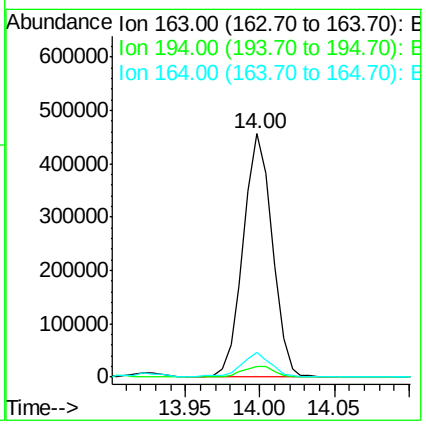
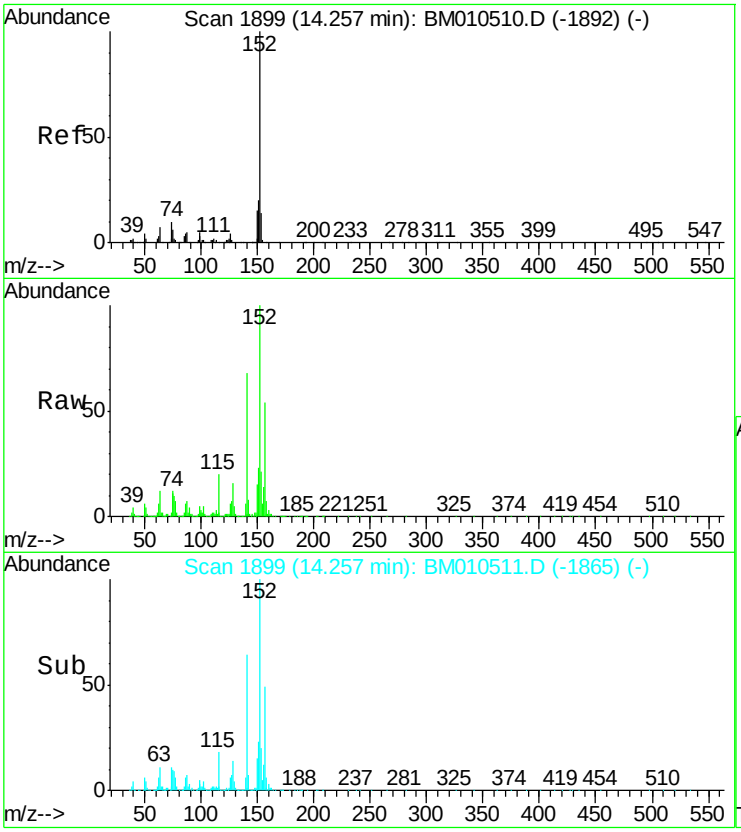



#44
Dimethylphthalate
Concen: 13.143 ng/ul
RT: 14.00 min Scan# 1855
Delta R.T. 0.01 min
Lab File: BM010511.D
Acq: 11 Jun 2017 06:34

Tgt Ion:163 Resp: 614542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 4.4 | 3.5 | 5.3 |
| 164 | 10.1 | 8.2 | 12.4 |

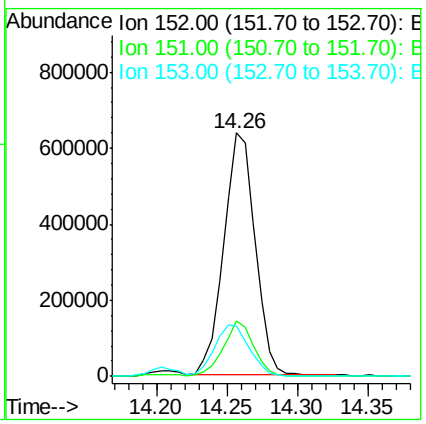





#47
Acenaphthylene
Concen: 18.146 ng/ul
RT: 14.26 min Scan# 1899
Delta R.T. 0.00 min
Lab File: BM010511.D
Acq: 11 Jun 2017 06:34

Tgt Ion:152 Resp: 983497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 22.6 | 16.3 | 24.5 |
| 153 | 20.8 | 10.2 | 15.4# |




**Instrument :**
BNA_M
**ClientSampleId :**
F5C58

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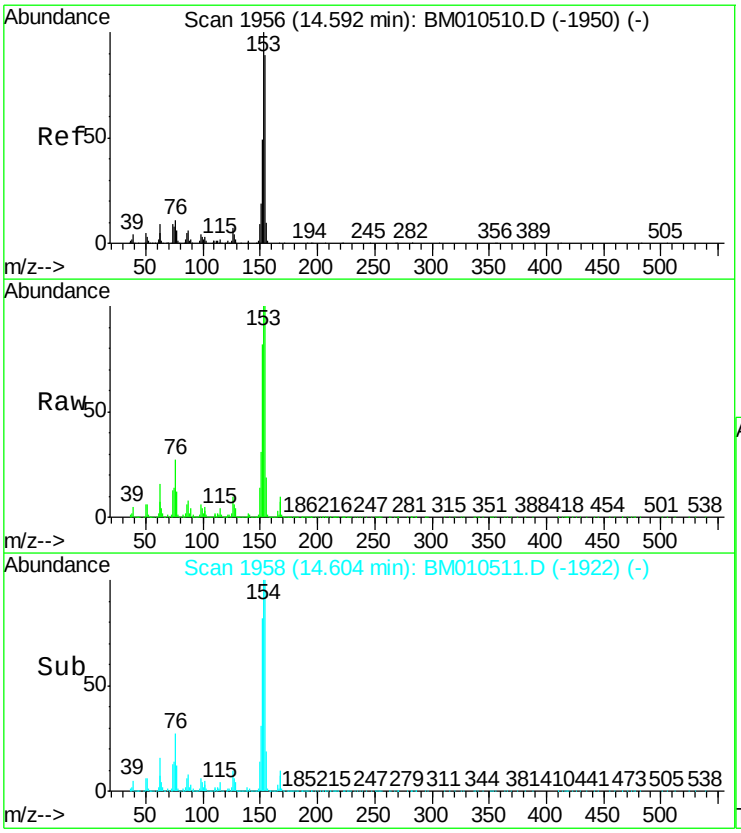
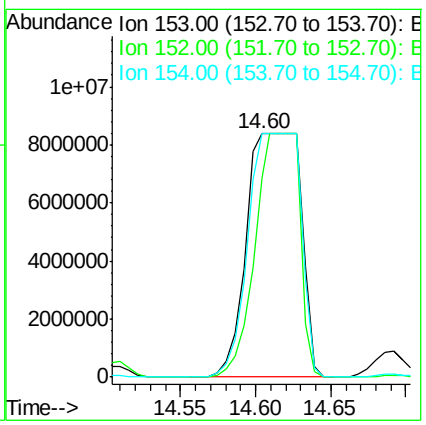
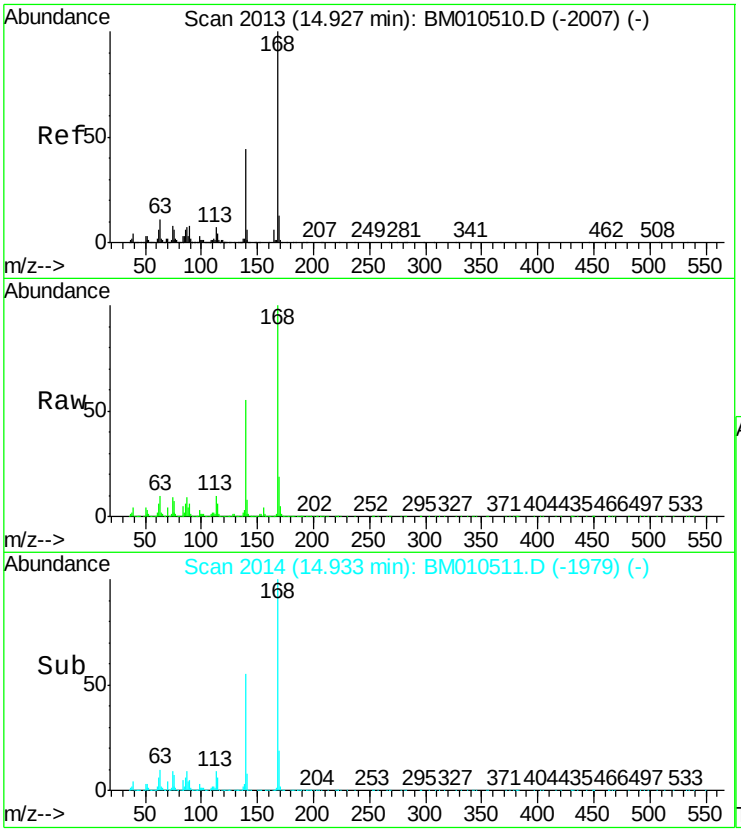



#49
Acenaphthene
Concen: 556.390 ng/ul m
RT: 14.60 min Scan# 1958
Delta R.T. 0.01 min
Lab File: BM010511.D
Acq: 11 Jun 2017 06:34

Tgt Ion:153 Resp:21149647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 153 | 100 | | |
| 152 | 81.7 | 37.6 | 56.4# |
| 154 | 100.0 | 70.4 | 105.6 |






#53
Dibenzofuran
Concen: 388.453 ng/ul m
RT: 14.93 min Scan# 2014
Delta R.T. 0.01 min
Lab File: BM010511.D
Acq: 11 Jun 2017 06:34

Tgt Ion:168 Resp:21834308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 55.4 | 30.8 | 46.2# |

**Instrument :**
BNA_M
**ClientSampleId :**
F5C58

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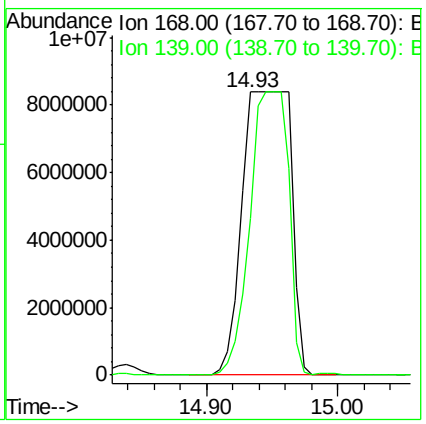
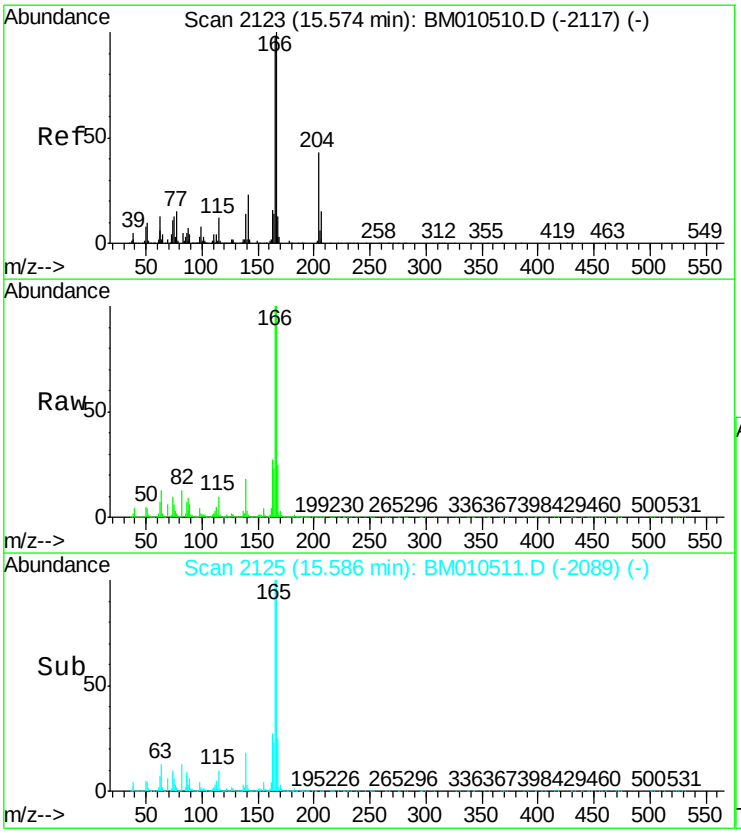
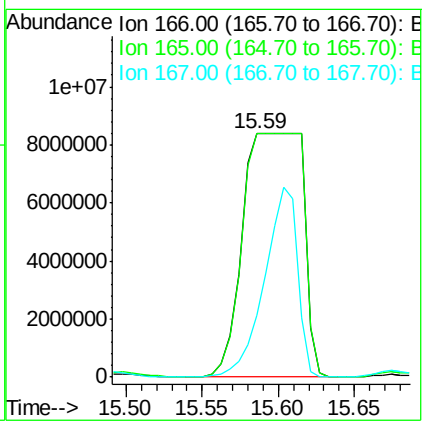


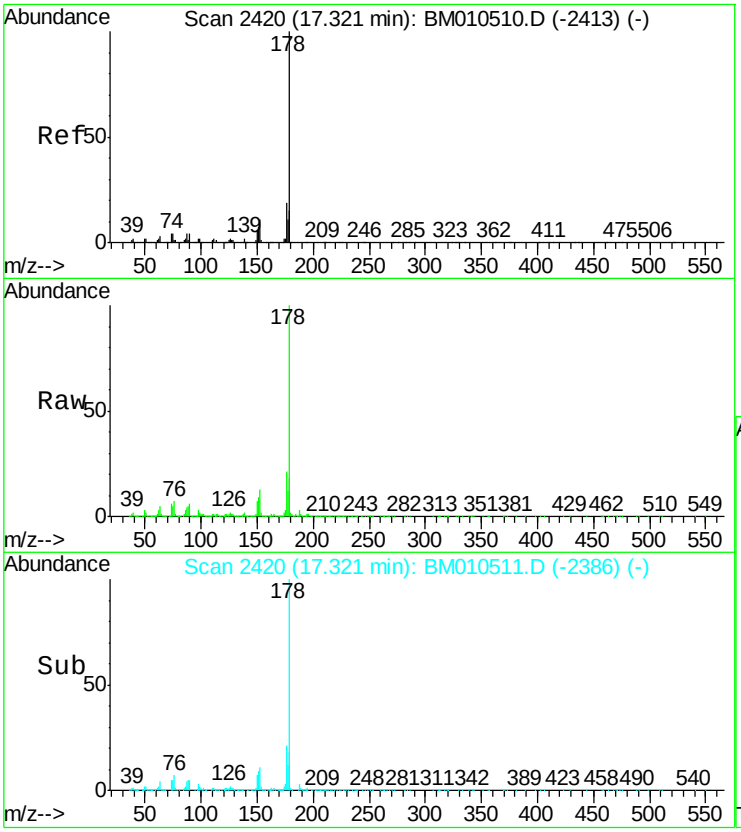




#58
Fluorene
Concen: 498.650 ng/ul m
RT: 15.59 min Scan# 2125
Delta R.T. 0.01 min
Lab File: BM010511.D
Acq: 11 Jun 2017 06:34

Tgt Ion:166 Resp:22991013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.0 | 77.9 | 116.9 |
| 167 | 25.3 | 10.6 | 16.0# |

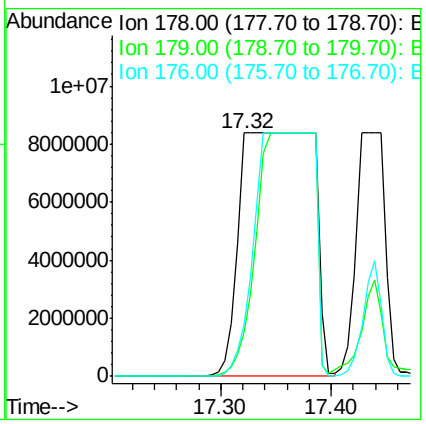





#69
Phenanthrene
Concen: 523.466 ng/ul m
RT: 17.32 min Scan# 2420
Delta R.T. 0.00 min
Lab File: BM010511.D
Acq: 11 Jun 2017 06:34

Tgt Ion:178 Resp:38902793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 17.8 | 12.6 | 19.0 |
| 176 | 21.2 | 14.9 | 22.3 |

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**ClientSampleId :**
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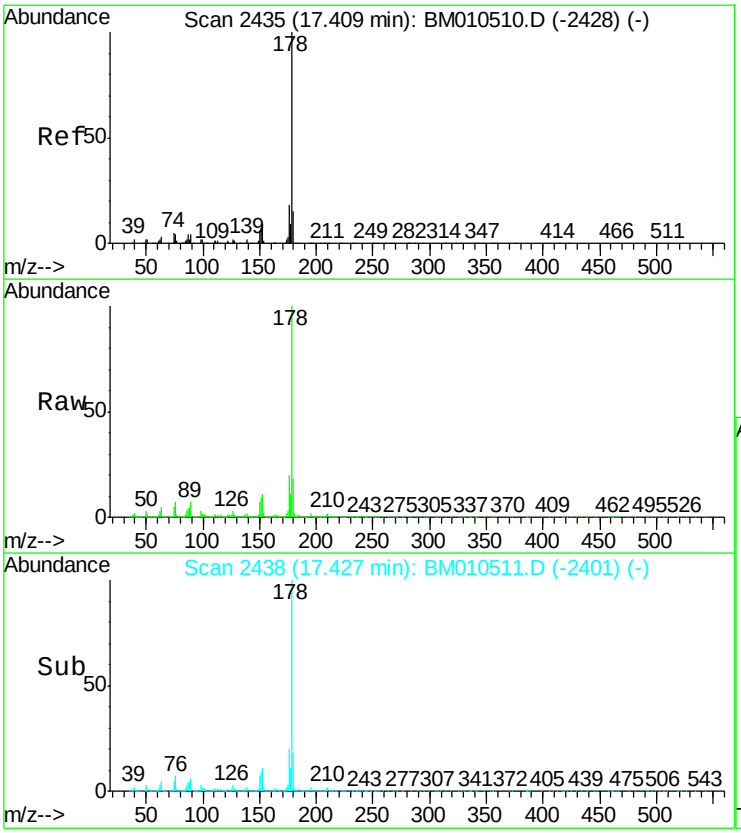
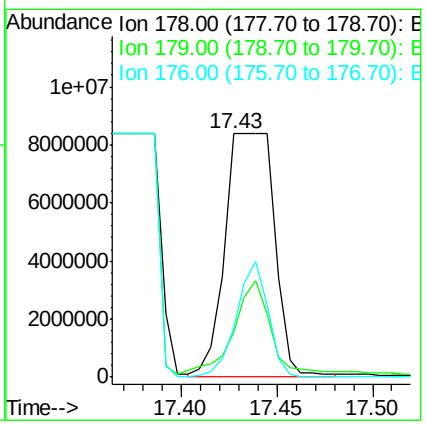
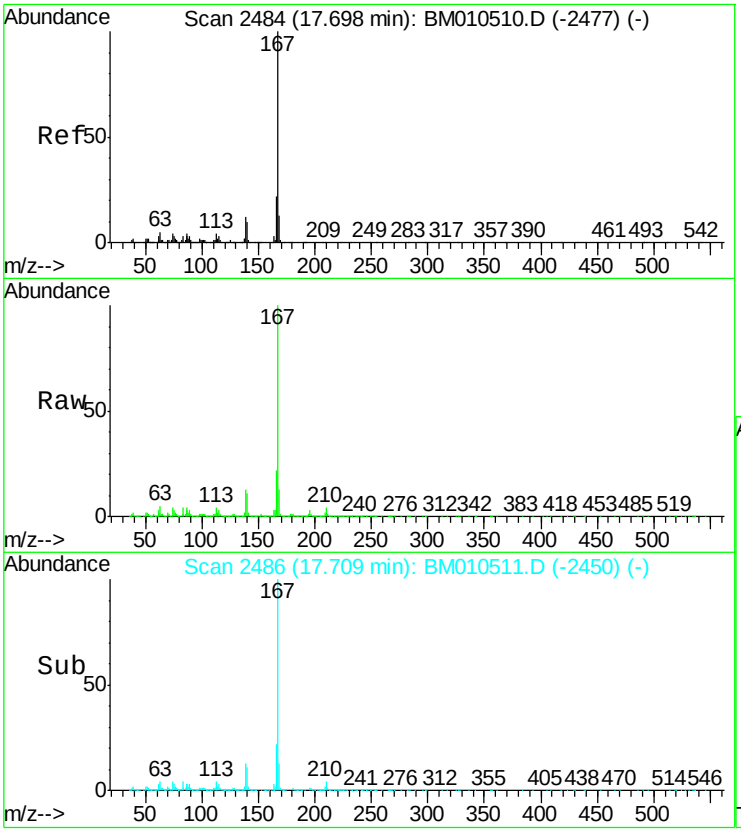



#71
Anthracene
Concen: 194.918 ng/ul m
RT: 17.43 min Scan# 2438
Delta R.T. 0.02 min
Lab File: BM010511.D
Acq: 11 Jun 2017 06:34

Tgt Ion:178 Resp:15122655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 18.5 | 11.7 | 17.5# |
| 176 | 20.0 | 14.6 | 21.8 |

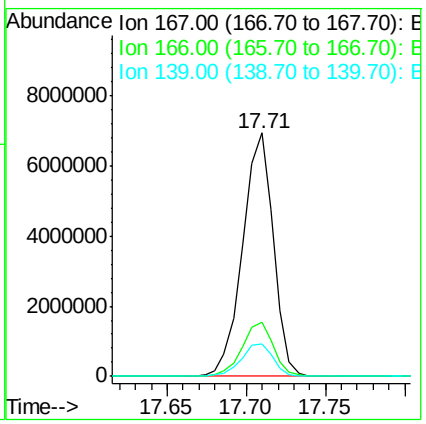





#72
Carbazole
Concen: 141.678 ng/ul
RT: 17.71 min Scan# 2486
Delta R.T. 0.01 min
Lab File: BM010511.D
Acq: 11 Jun 2017 06:34

Tgt Ion:167 Resp: 9303864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.3 | 17.1 | 25.7 |
| 139 | 13.3 | 10.0 | 15.0 |

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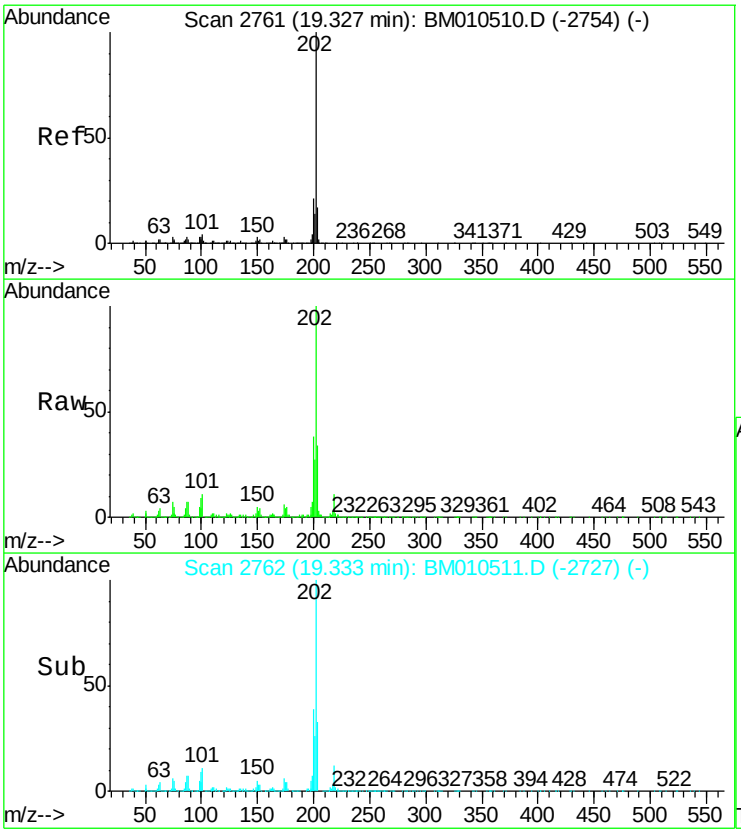
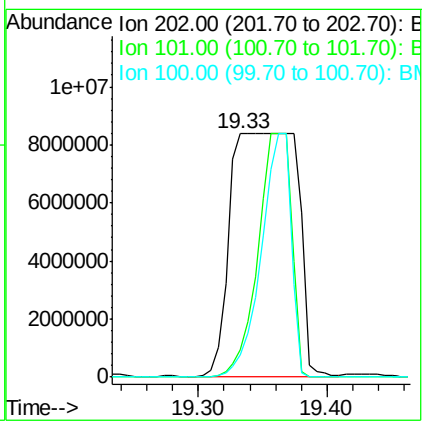
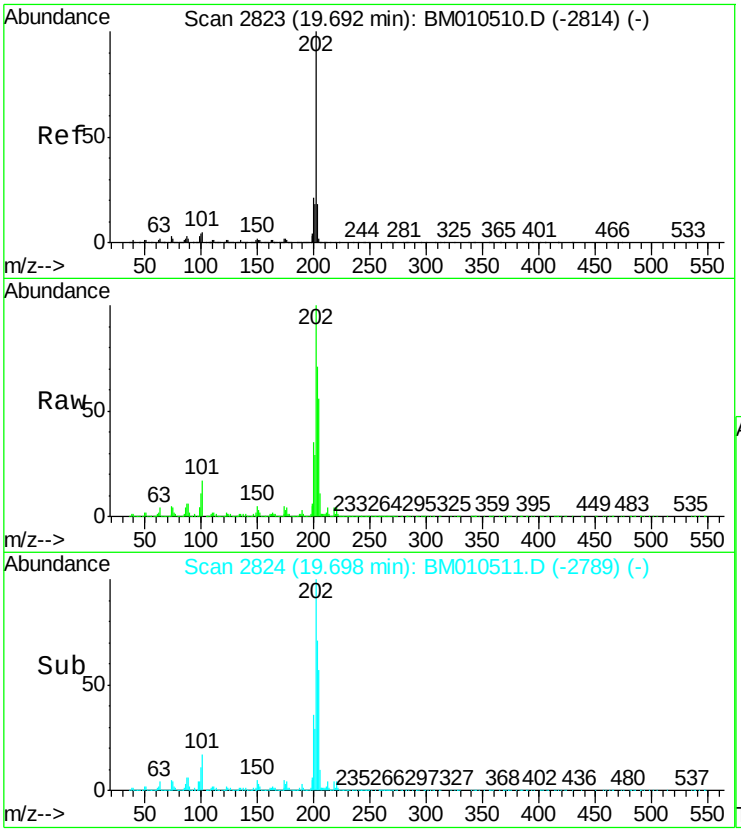



#74
Fluoranthene
Concen: 331.040 ng/ul m
RT: 19.33 min Scan# 2762
Delta R.T. 0.01 min
Lab File: BM010511.D
Acq: 11 Jun 2017 06:34

Tgt Ion:202 Resp:30253645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.4 | 4.6 | 7.0# |
| 100 | 9.2 | 3.4 | 5.2# |






#77
Pyrene
Concen: 239.178 ng/ul m
RT: 19.70 min Scan# 2824
Delta R.T. 0.01 min
Lab File: BM010511.D
Acq: 11 Jun 2017 06:34

Tgt Ion:202 Resp:28964054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 16.7 | 5.1 | 7.7# |
| 100 | 11.3 | 4.9 | 7.3# |

**Instrument :**
BNA_M
**ClientSampleId :**
F5C58

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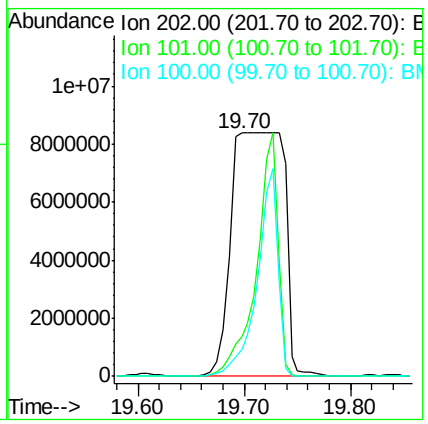
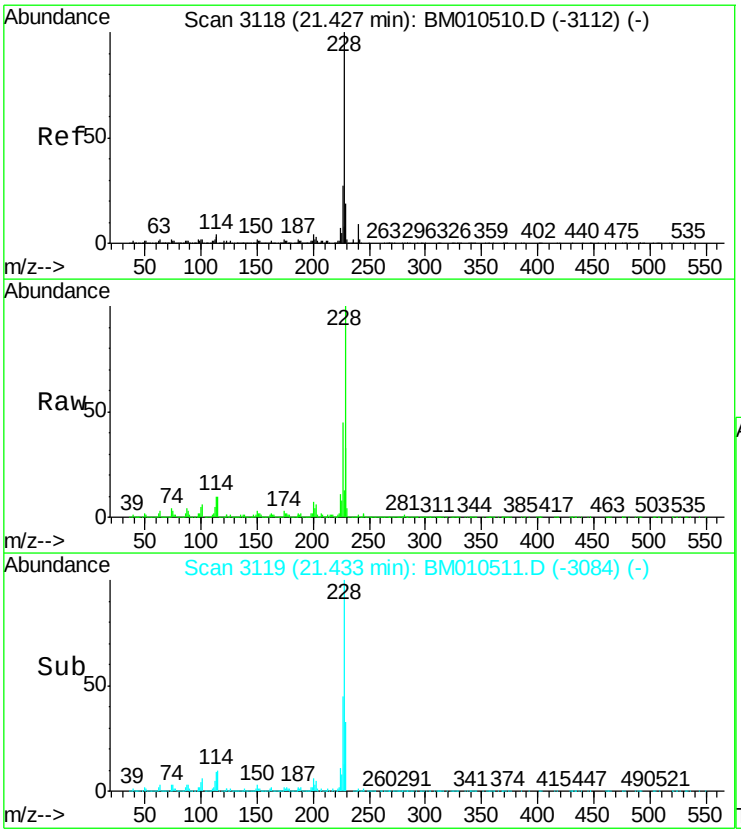
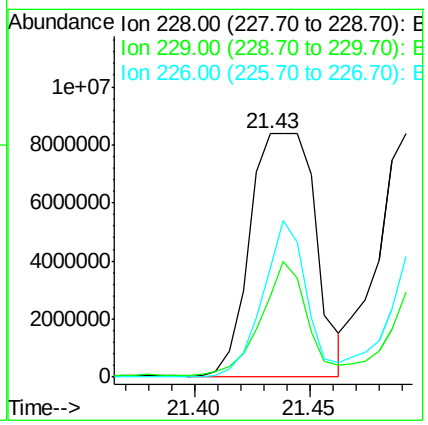


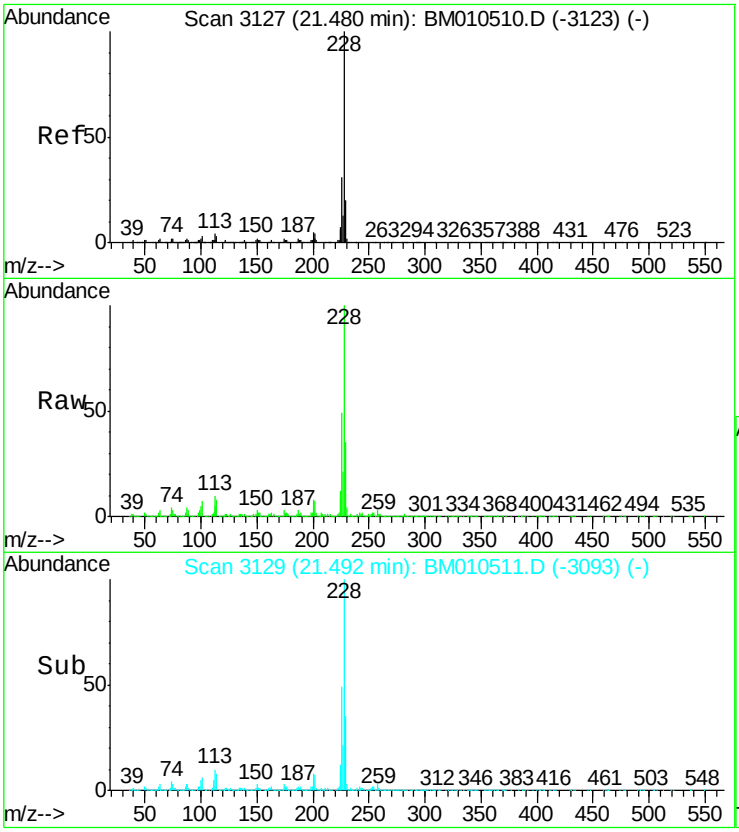




#80
Benzo(a)anthracene
Concen: 124.298 ng/ul
RT: 21.43 min Scan# 3119
Delta R.T. 0.01 min
Lab File: BM010511.D
Acq: 11 Jun 2017 06:34

Tgt Ion:228 Resp:16472141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 33.4 | 15.4 | 23.0# |
| 226 | 44.9 | 21.4 | 32.0# |






#82
Chrysene
Concen: 124.245 ng/ul
RT: 21.49 min Scan# 3129
Delta R.T. 0.01 min
Lab File: BM010511.D
Acq: 11 Jun 2017 06:34

Tgt Ion:228 Resp:14883936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 49.4 | 23.4 | 35.2# |
| 229 | 35.0 | 15.5 | 23.3# |

**Instrument :**
BNA_M
**ClientSampleId :**
F5C58

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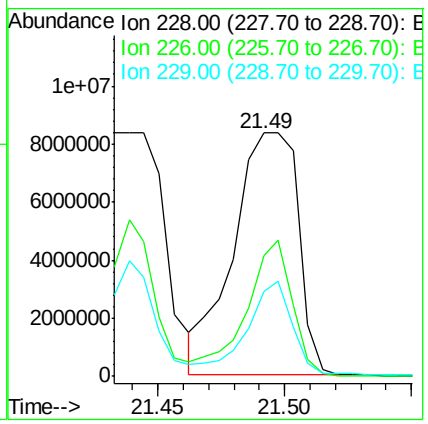
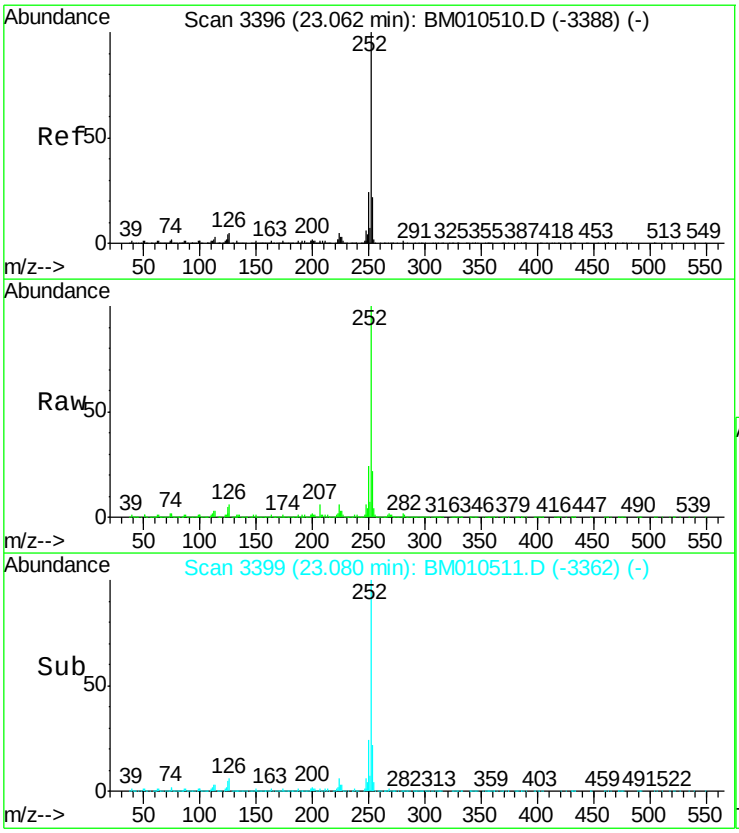
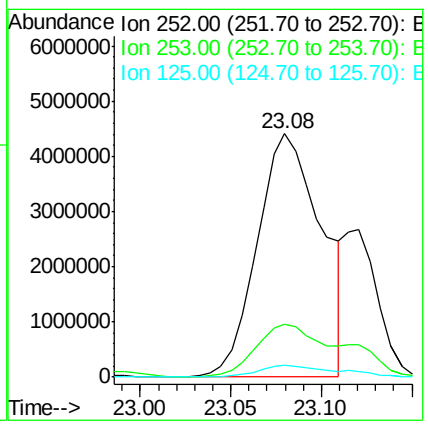


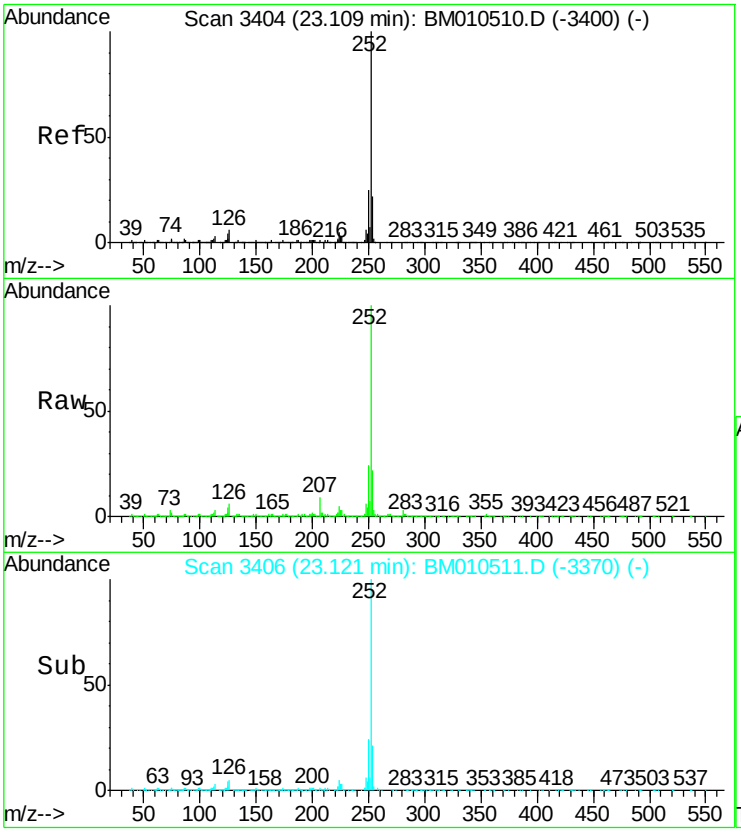




#85
Benzo(b)fluoranthene
Concen: 102.061 ng/ul
RT: 23.08 min Scan# 3399
Delta R.T. 0.02 min
Lab File: BM010511.D
Acq: 11 Jun 2017 06:34

Tgt Ion:252 Resp:10850636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 17.9 | 26.9 |
| 125 | 4.7 | 3.6 | 5.4 |

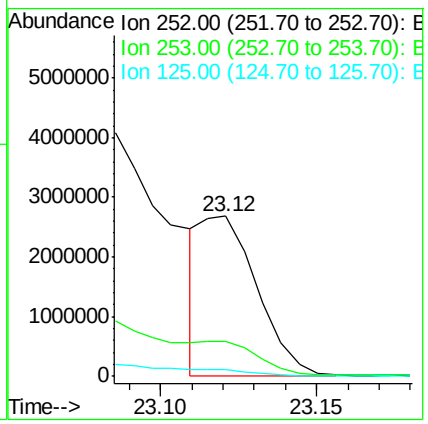





#86
Benzo(k)fluoranthene
Concen: 32.925 ng/ul m
RT: 23.12 min Scan# 3406
Delta R.T. 0.01 min
Lab File: BM010511.D
Acq: 11 Jun 2017 06:34

Tgt Ion:252 Resp: 3343962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.9 | 17.1 | 25.7 |
| 125 | 4.1 | 3.4 | 5.2 |




**Instrument :**
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**ClientSampleId :**
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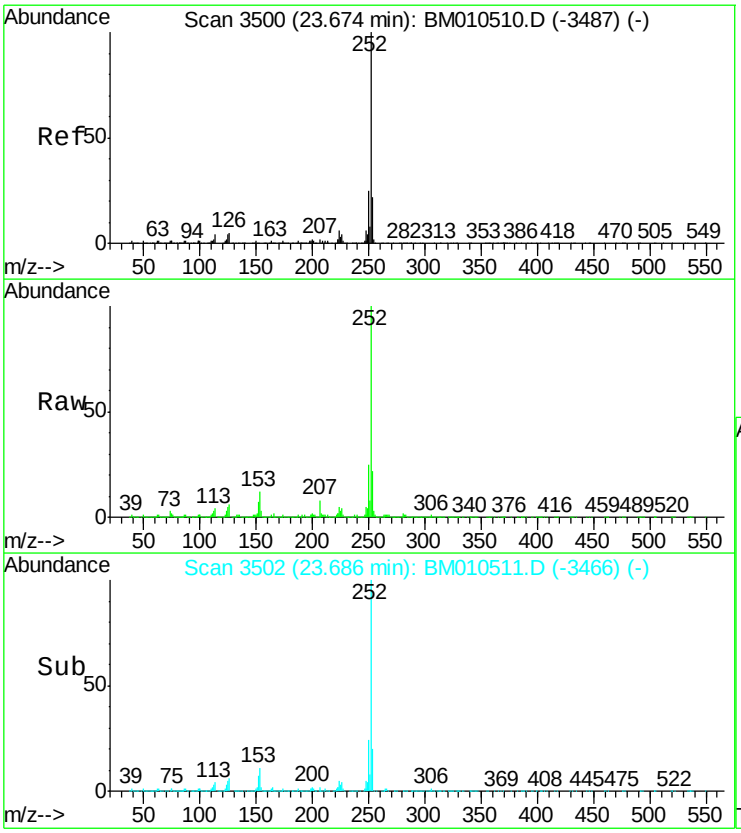
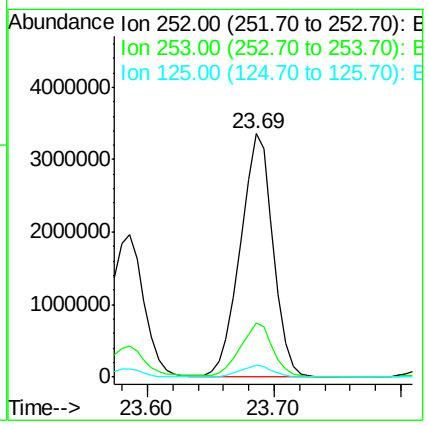
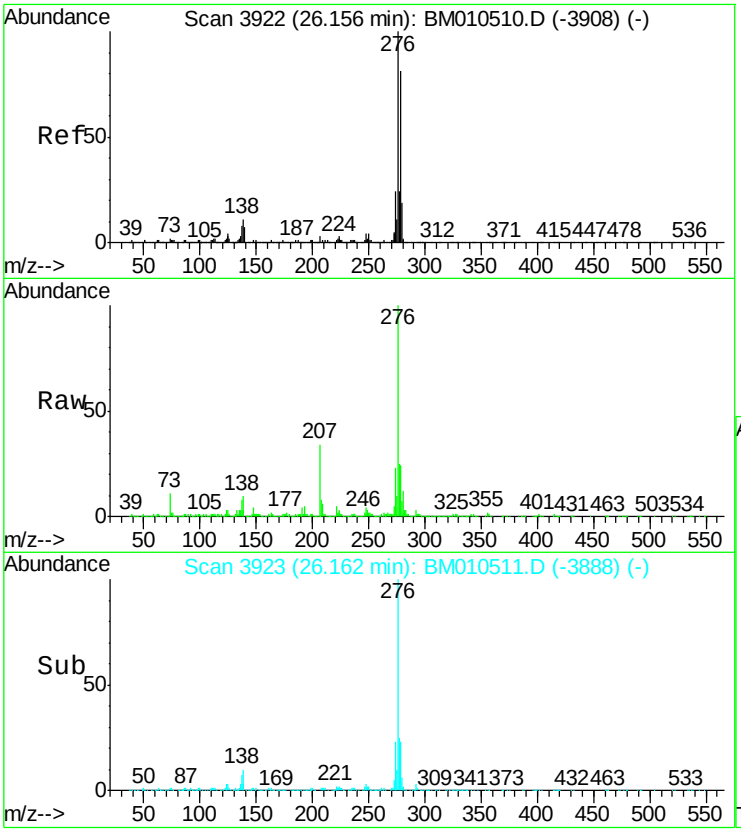



#88
Benzo(a)pyrene
Concen: 56.831 ng/ul
RT: 23.69 min Scan# 3502
Delta R.T. 0.01 min
Lab File: BM010511.D
Acq: 11 Jun 2017 06:34

Tgt Ion:252 Resp: 5988929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.0 | 18.2 | 27.2 |
| 125 | 5.0 | 4.0 | 6.0 |

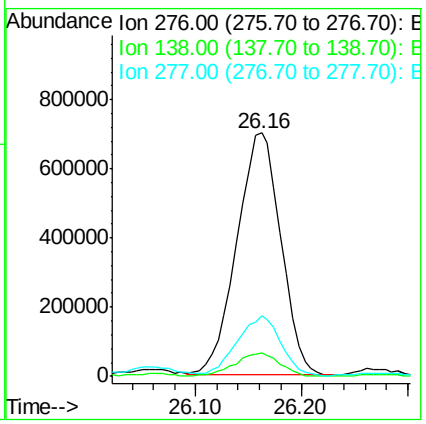





#89
Indeno(1,2,3-cd)pyrene
Concen: 15.156 ng/ul
RT: 26.16 min Scan# 3923
Delta R.T. 0.01 min
Lab File: BM010511.D
Acq: 11 Jun 2017 06:34

Tgt Ion:276 Resp: 2017848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 9.7 | 9.3 | 13.9 |
| 277 | 25.0 | 19.9 | 29.9 |




**Instrument :**
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**ClientSampleId :**
F5C58

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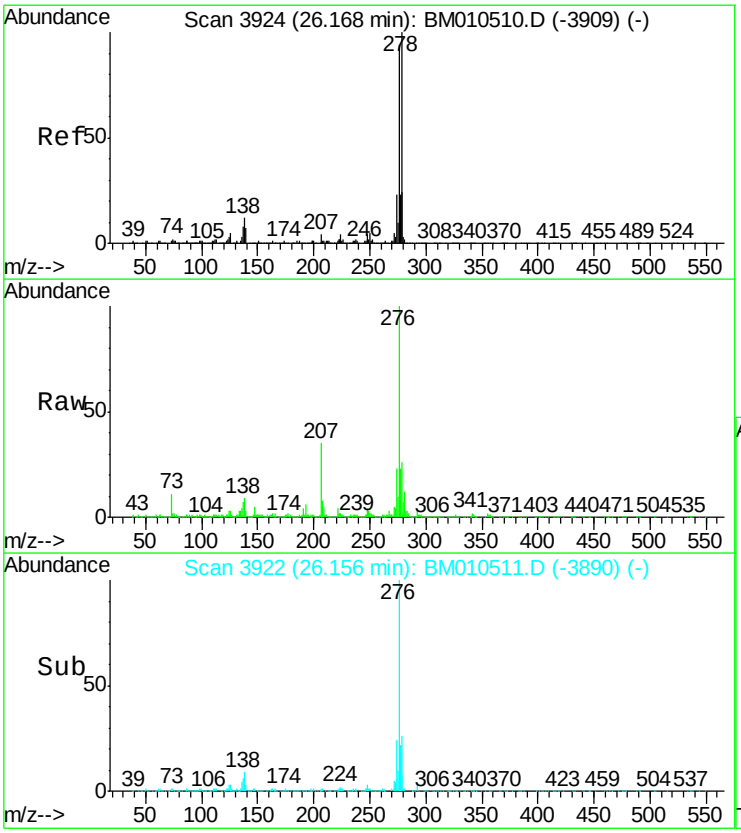
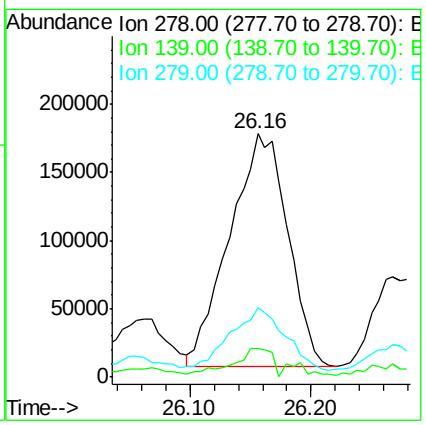
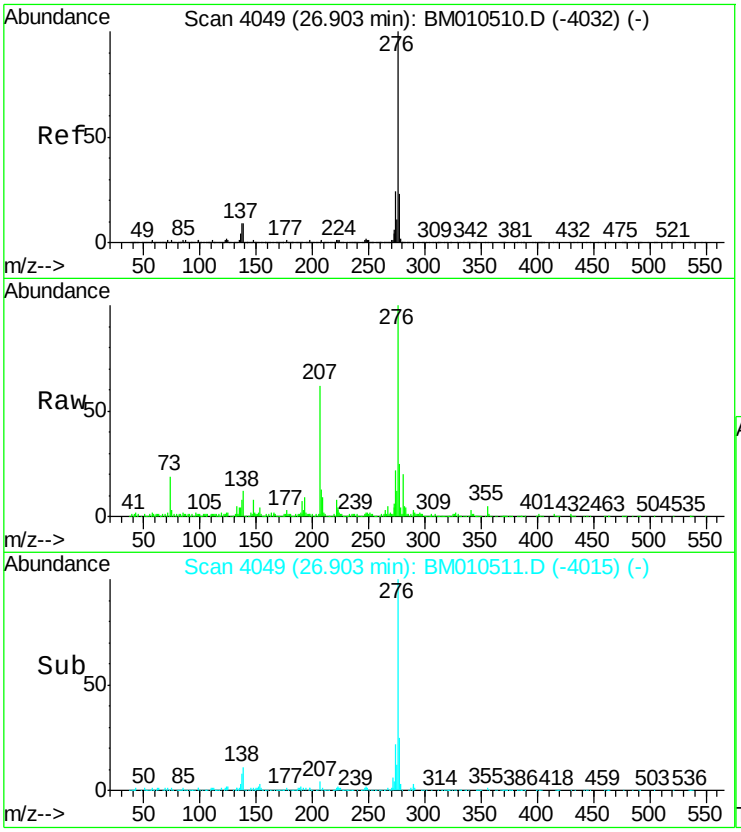



#90
Dibenzo(a,h)anthracene
Concen: 4.955 ng/ul
RT: 26.16 min Scan# 3922
Delta R.T. -0.01 min
Lab File: BM010511.D
Acq: 11 Jun 2017 06:34

Tgt Ion:278 Resp: 568207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 11.5 | 5.8 | 8.8# |
| 279 | 28.6 | 18.6 | 27.8# |

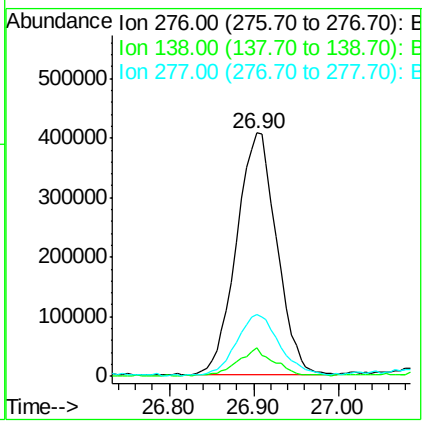





#91
Benzo(g,h,i)perylene
Concen: 12.265 ng/ul
RT: 26.90 min Scan# 4049
Delta R.T. 0.00 min
Lab File: BM010511.D
Acq: 11 Jun 2017 06:34

Tgt Ion:276 Resp: 1345354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 11.7 | 8.5 | 12.7 |
| 277 | 25.4 | 18.6 | 28.0 |




**Instrument :**
BNA_M
**ClientSampleId :**
F5C58

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