Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121715\
Data File : BM003602.D
Acq On : 17 Dec 2015 16:53
Operator : UM/IZ
Sample : G4767-08DL 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** D9N30DL

**Manual Integrations APPROVED**
MMdadoda
12/18/2015 6:22:57 PM

Quant Time: Dec 18 02:55:56 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM121515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 18 00:41:46 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.71 | 152 | 2273 | 0.40 | ng/ul | 0.00 |
| 4) Naphthalene-d8 | 10.50 | 136 | 8805 | 0.40 | ng/ul | 0.00 |
| 8) Acenaphthene-d10 | 14.35 | 164 | 5020 | 0.40 | ng/ul | 0.00 |
| 12) Phenanthrene-d10 | 17.11 | 188 | 10478m | 0.40 | ng/ul | 0.00 |
| 18) Chrysene-d12 | 21.30 | 240 | 9898 | 0.40 | ng/ul | 0.00 |
| 22) Perylene-d12 | 23.56 | 264 | 9667 | 0.40 | ng/ul | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 2) 1,4-Dioxane-d8 | 3.17 | 96 | 2260 | 2.33 | ng/uL | 0.00 |
| 6) 2-Methylnaphthalene-d10 | 12.09 | 152 | 712 | 0.07 | ng/ul | 0.00 |
| 16) Fluoranthene-d10 | 19.14 | 212 | 1206m | 0.05 | ng/ul | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 5) Naphthalene | 10.55 | 128 | 14305 | 0.72 | ng/ul | 98 |
| 7) 2-Methylnaphthalene | 12.16 | 142 | 17991 | 1.35 | ng/ul | 99 |
| 9) Acenaphthylene | 14.07 | 152 | 5095 | 0.27 | ng/ul# | 88 |
| 10) Acenaphthene | 14.42 | 153 | 99387 | 6.43 | ng/ul | 96 |
| 11) Fluorene | 15.41 | 166 | 96303 | 5.62 | ng/ul | 94 |
| 14) Phenanthrene | 17.14 | 178 | 430470m | 15.93 | ng/ul | |
| 15) Anthracene | 17.23 | 178 | 35487 | 1.52 | ng/ul | 98 |
| 17) Fluoranthene | 19.17 | 202 | 227865 | 7.76 | ng/ul | 97 |
| 19) Pyrene | 19.53 | 202 | 155294 | 5.81 | ng/ul | 98 |
| 20) Benzo(a)anthracene | 21.28 | 228 | 30869m | 1.28 | ng/ul | |
| 21) Chrysene | 21.34 | 228 | 27901m | 1.01 | ng/ul | |
| 23) Benzo(b)fluoranthene | 22.88 | 252 | 15330m | 0.46 | ng/ul | |
| 24) Benzo(k)fluoranthene | 22.90 | 252 | 6425m | 0.21 | ng/ul | |
| 25) Benzo(a)pyrene | 23.45 | 252 | 8885 | 0.32 | ng/ul | 96 |
| 26) Indeno(1,2,3-cd)pyrene | 25.82 | 276 | 2704 | 0.08 | ng/ul# | 95 |
| 27) Dibenzo(a,h)anthracene | 25.83 | 278 | 799 | 0.03 | ng/ul# | 19 |
| 28) Benzo(g,h,i)perylene | 26.52 | 276 | 2307 | 0.08 | ng/ul# | 84 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121715\
Data File : BM003602.D
Acq On : 17 Dec 2015 16:53
Operator : UM/IZ
Sample : G4767-08DL 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 02:55:56 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM121515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 18 00:41:46 2015
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
D9N30DL

**Manual Integrations APPROVED**
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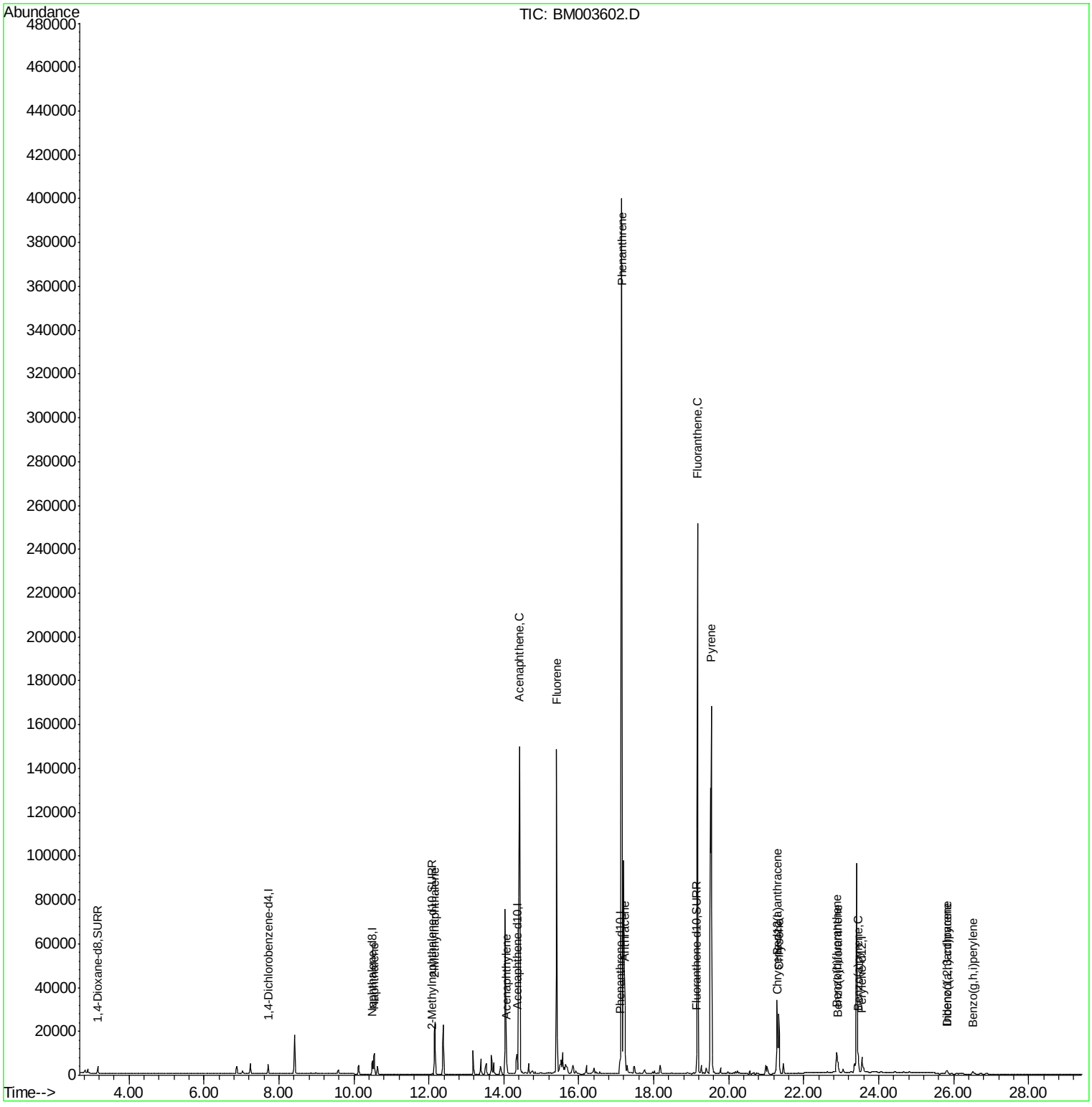
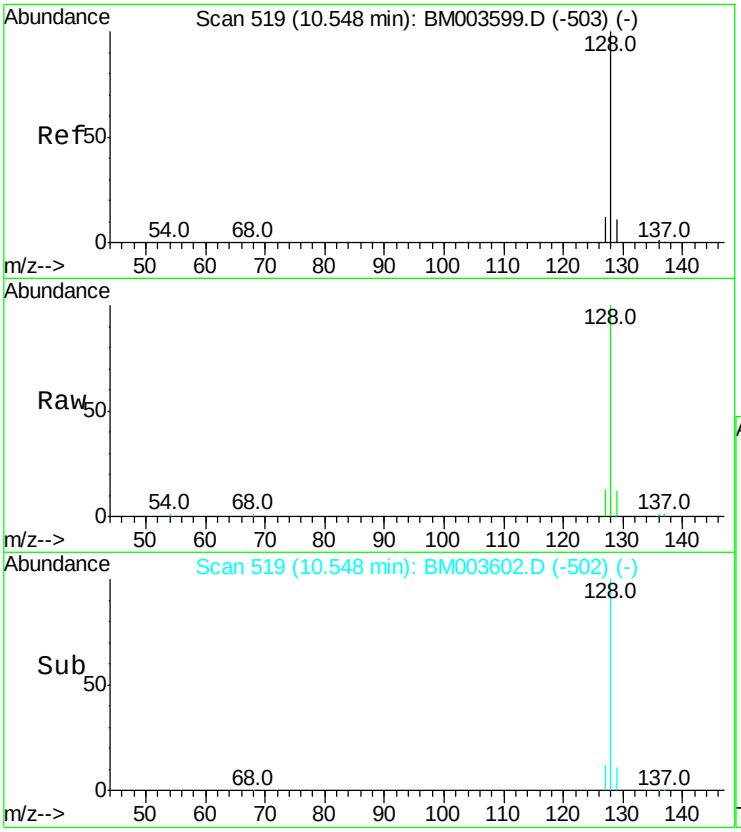
12/18/2015 6:22:57 PM

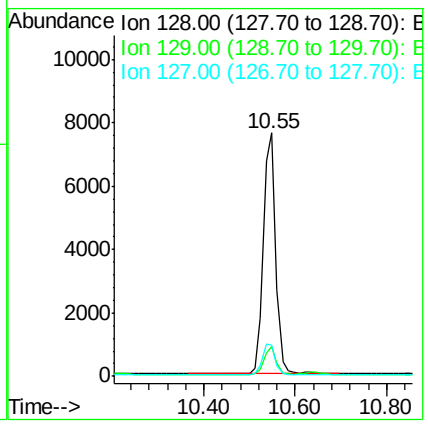





#5
Naphthalene
Concen: 0.72 ng/ul
RT: 10.55 min Scan# 519
Delta R.T. -0.00 min
Lab File: BM003602.D
Acq: 17 Dec 2015 16:53

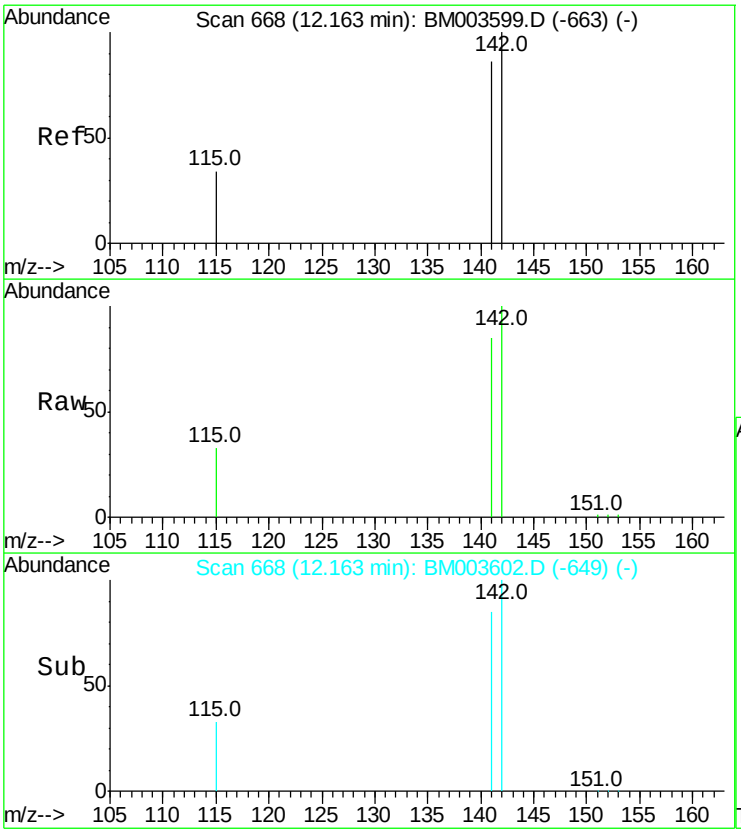
Tgt Ion:128 Resp: 14305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.1 | 9.0 | 13.6 |
| 127 | 12.6 | 9.6 | 14.4 |




**Instrument :**
BNA_M
**ClientSampleId :**
D9N30DL

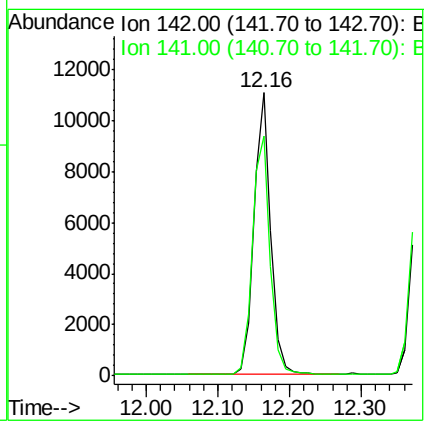
**Manual Integrations APPROVED**
MMdadoda
12/18/2015 6:22:57 PM

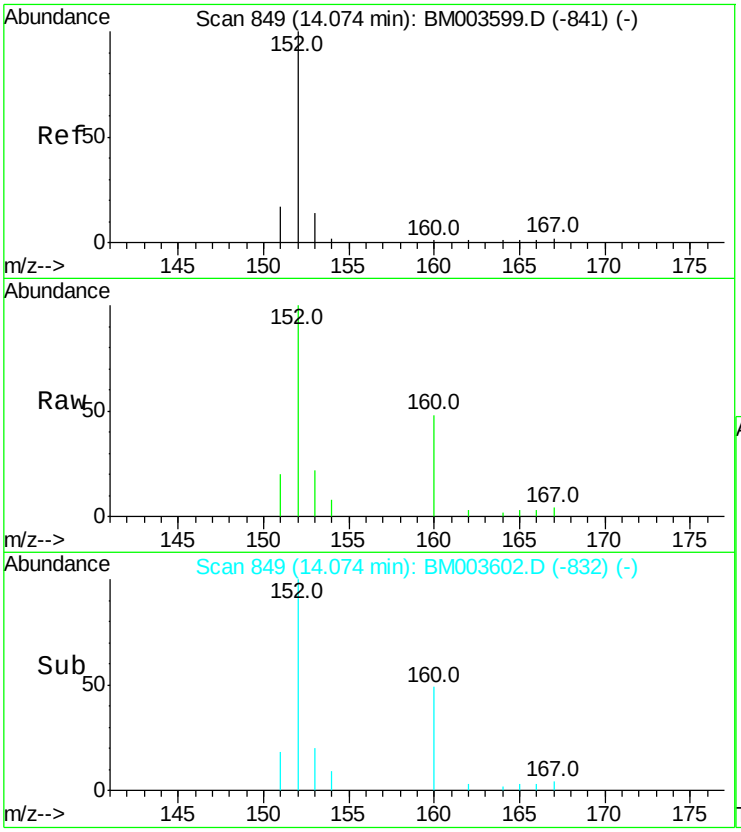



#7
2-Methylnaphthalene
Concen: 1.35 ng/ul
RT: 12.16 min Scan# 668
Delta R.T. -0.00 min
Lab File: BM003602.D
Acq: 17 Dec 2015 16:53

Tgt Ion:142 Resp: 17991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.2 | 70.3 | 105.5 |

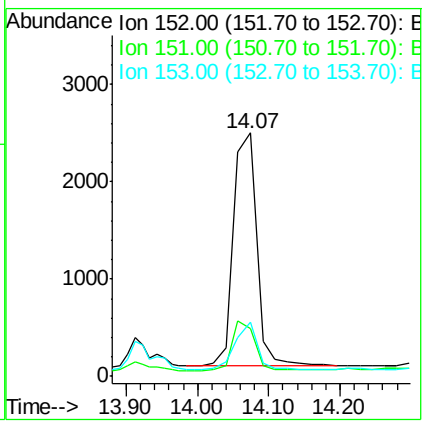





#9
Acenaphthylene
Concen: 0.27 ng/ul
RT: 14.07 min Scan# 849
Delta R.T. -0.00 min
Lab File: BM003602.D
Acq: 17 Dec 2015 16:53

Tgt Ion:152 Resp: 5095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.8 | 17.6 | 26.4 |
| 153 | 22.1 | 9.7 | 14.5# |




**Instrument :**
BNA_M
**ClientSampleId :**
D9N30DL

**Manual Integrations APPROVED**
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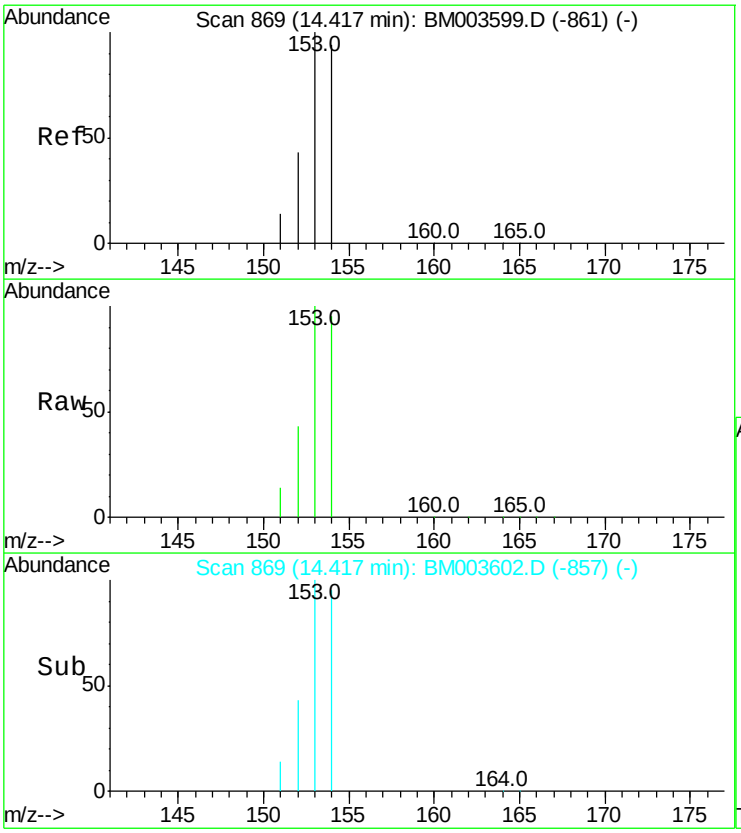
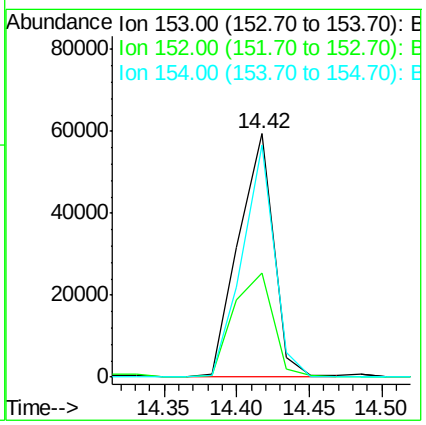
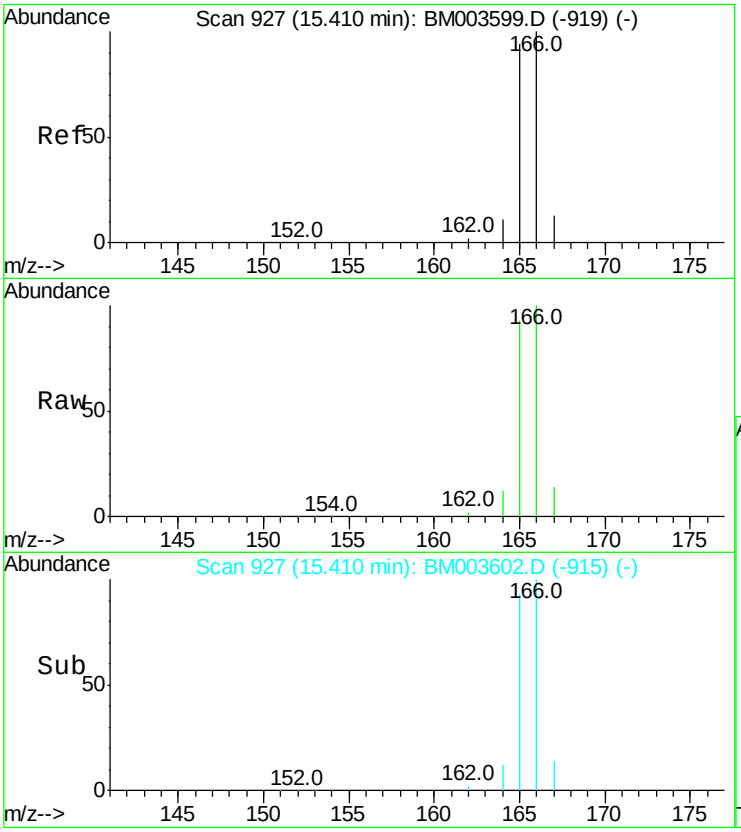



#10
Acenaphthene
Concen: 6.43 ng/ul
RT: 14.42 min Scan# 869
Delta R.T. -0.00 min
Lab File: BM003602.D
Acq: 17 Dec 2015 16:53

Tgt Ion:153 Resp: 99387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 153 | 100 | | |
| 152 | 42.9 | 33.9 | 50.9 |
| 154 | 95.2 | 80.6 | 121.0 |

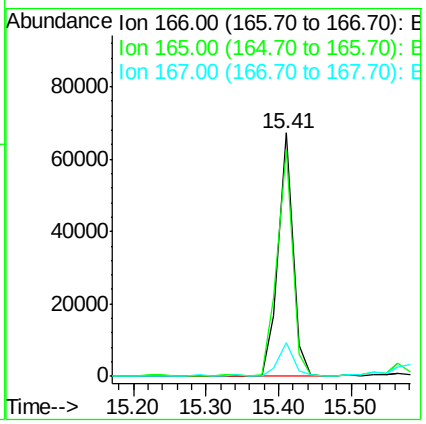





#11
Fluorene
Concen: 5.62 ng/ul
RT: 15.41 min Scan# 927
Delta R.T. -0.00 min
Lab File: BM003602.D
Acq: 17 Dec 2015 16:53

Tgt Ion:166 Resp: 96303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 93.4 | 69.6 | 104.4 |
| 167 | 13.9 | 11.9 | 17.9 |




**Instrument :**
BNA_M
**ClientSampleId :**
D9N30DL

**Manual Integrations APPROVED**
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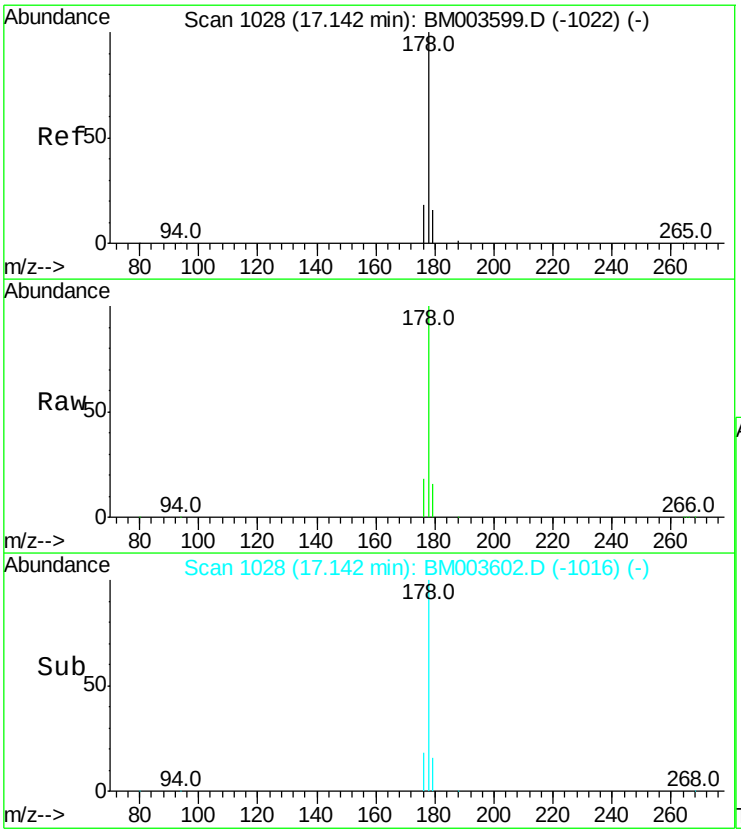
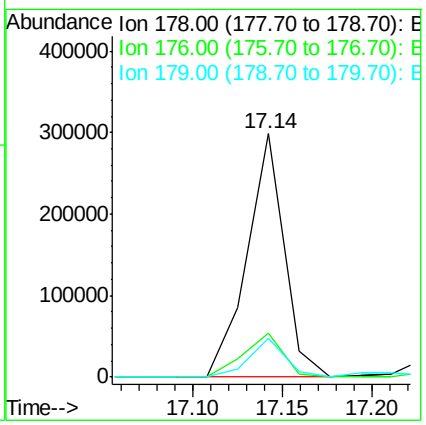
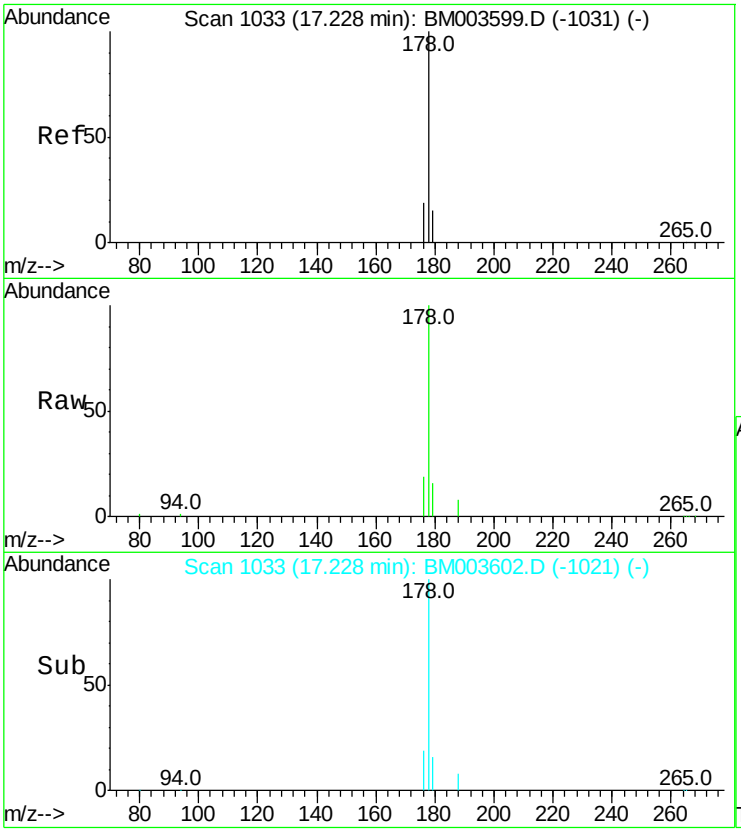



#14
Phenanthrene
Concen: 15.93 ng/ul m
RT: 17.14 min Scan# 1028
Delta R.T. -0.00 min
Lab File: BM003602.D
Acq: 17 Dec 2015 16:53

Tgt Ion:178 Resp: 430470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.1 | 13.0 | 19.4 |
| 179 | 15.7 | 14.2 | 21.2 |

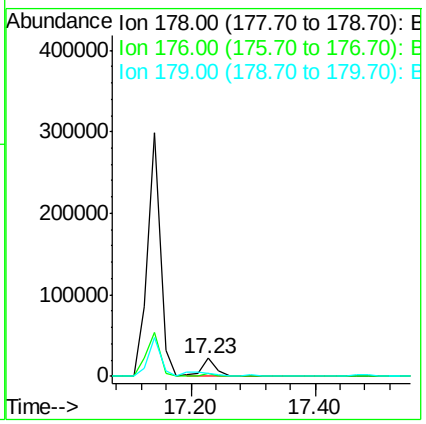





#15
Anthracene
Concen: 1.52 ng/ul
RT: 17.23 min Scan# 1033
Delta R.T. -0.00 min
Lab File: BM003602.D
Acq: 17 Dec 2015 16:53

Tgt Ion:178 Resp: 35487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 14.0 | 21.0 |
| 179 | 16.5 | 12.9 | 19.3 |




**Instrument :**
BNA_M
**ClientSampleId :**
D9N30DL

**Manual Integrations APPROVED**
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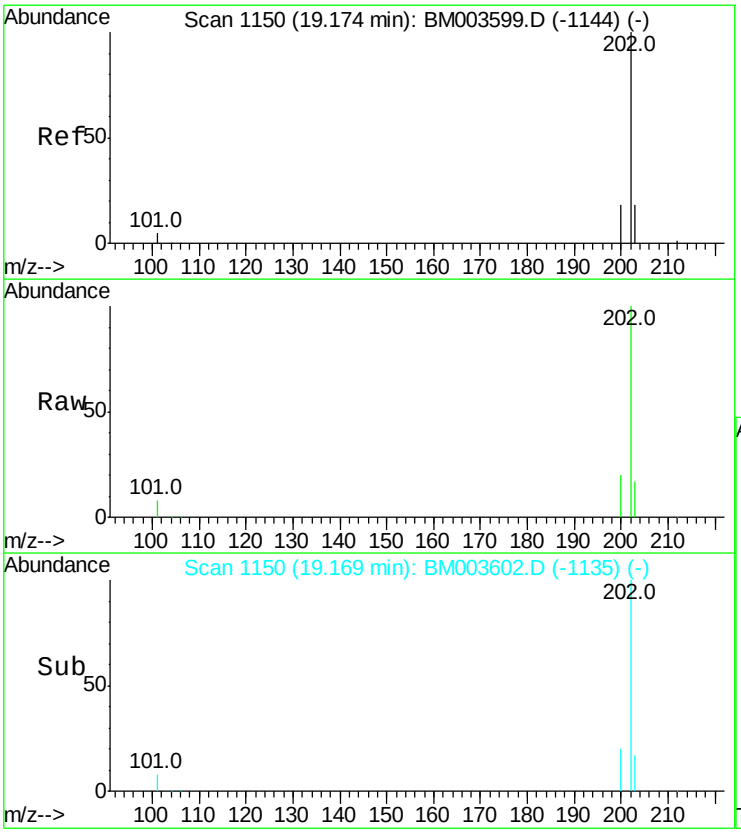
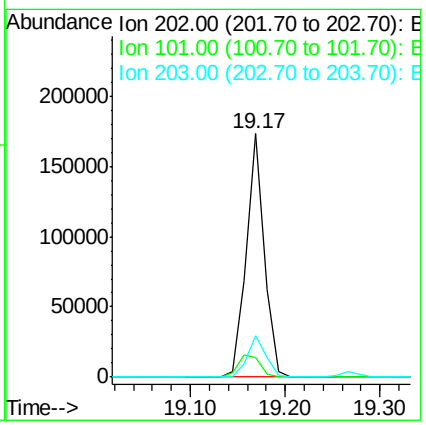
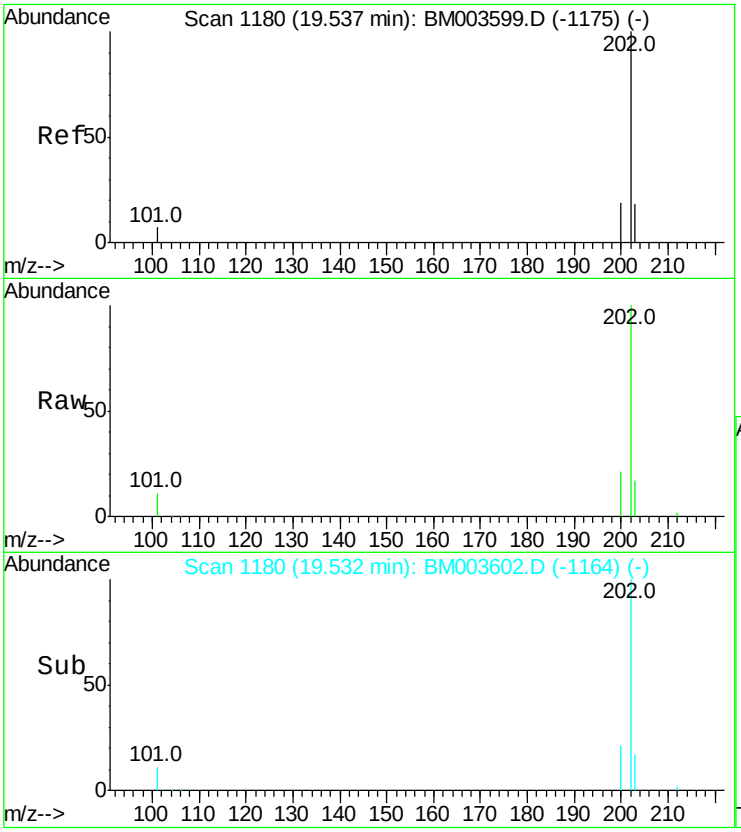



#17
Fluoranthene
Concen: 7.76 ng/ul
RT: 19.17 min Scan# 1150
Delta R.T. -0.01 min
Lab File: BM003602.D
Acq: 17 Dec 2015 16:53

Tgt Ion:202 Resp: 227865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 8.0 | 0.0 | 29.6 |
| 203 | 17.1 | 0.0 | 36.3 |

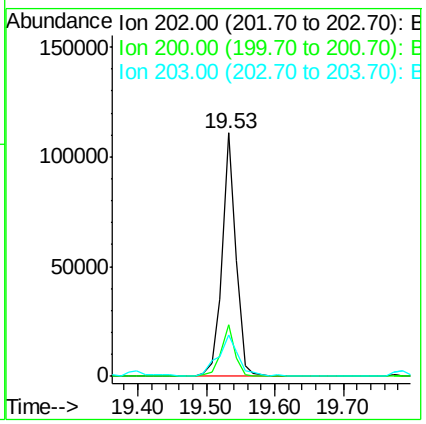





#19
Pyrene
Concen: 5.81 ng/ul
RT: 19.53 min Scan# 1180
Delta R.T. -0.01 min
Lab File: BM003602.D
Acq: 17 Dec 2015 16:53

Tgt Ion:202 Resp: 155294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.3 | 17.8 | 26.8 |
| 203 | 16.9 | 12.8 | 19.2 |




**Instrument :**
BNA_M
**ClientSampleId :**
D9N30DL

**Manual Integrations APPROVED**
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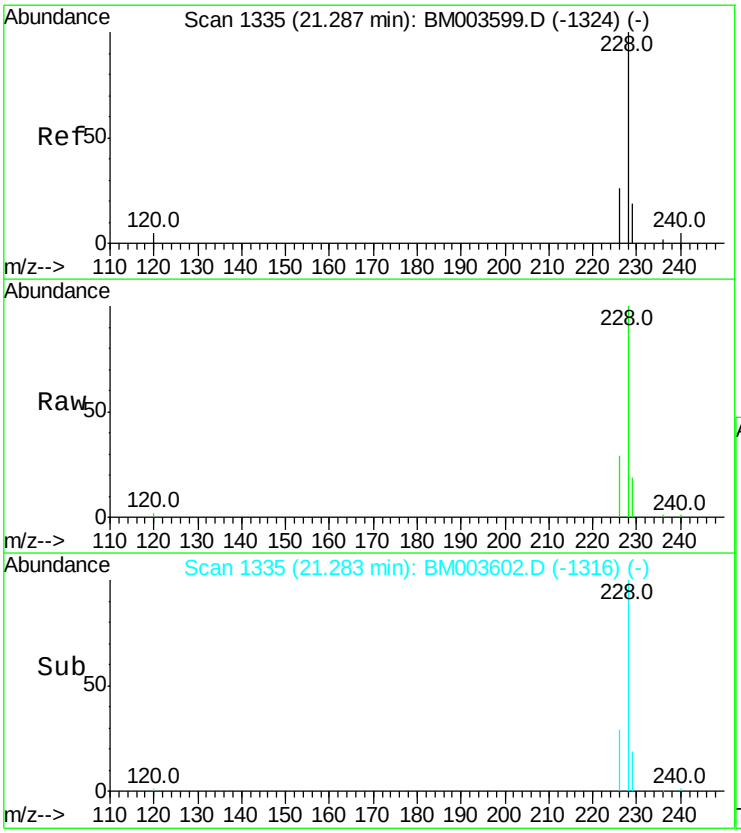
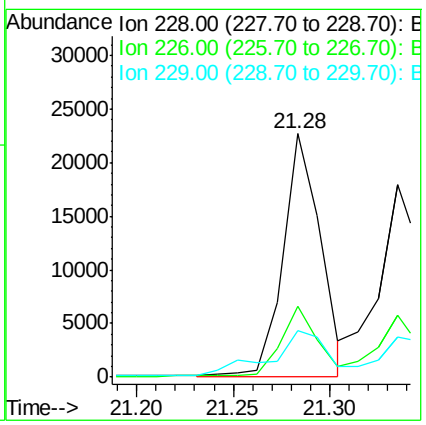
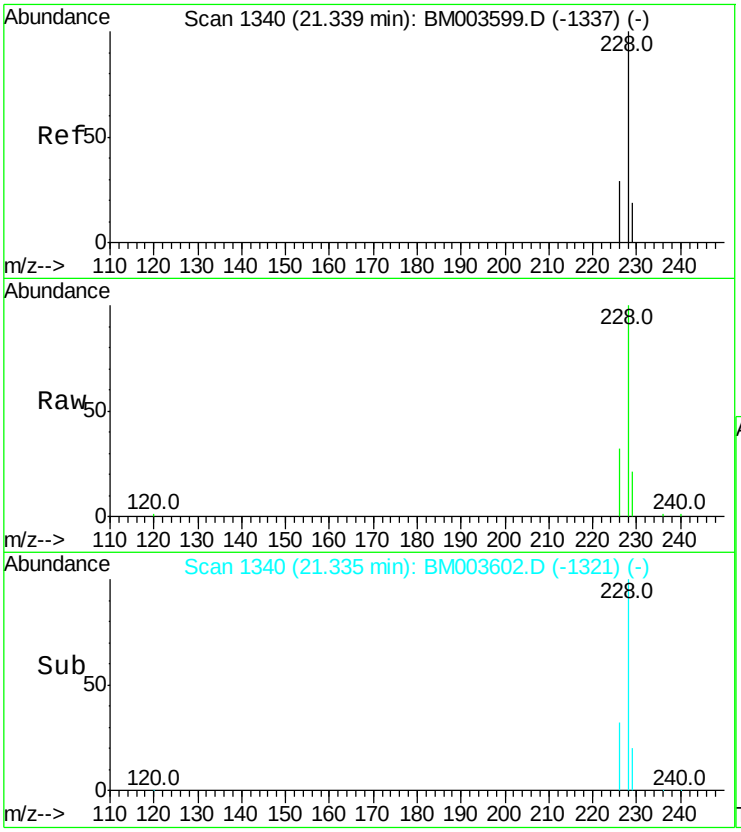



#20
Benzo(a)anthracene
Concen: 1.28 ng/ul m
RT: 21.28 min Scan# 1335
Delta R.T. -0.00 min
Lab File: BM003602.D
Acq: 17 Dec 2015 16:53

Tgt Ion:228 Resp: 30869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.0 | 18.8 | 28.2# |
| 229 | 19.4 | 17.1 | 25.7 |






#21
Chrysene
Concen: 1.01 ng/ul m
RT: 21.34 min Scan# 1340
Delta R.T. -0.00 min
Lab File: BM003602.D
Acq: 17 Dec 2015 16:53

Tgt Ion:228 Resp: 27901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.3 | 21.2 | 31.8# |
| 229 | 21.2 | 17.0 | 25.6 |

**Instrument :**
BNA_M
**ClientSampleId :**
D9N30DL

**Manual Integrations APPROVED**
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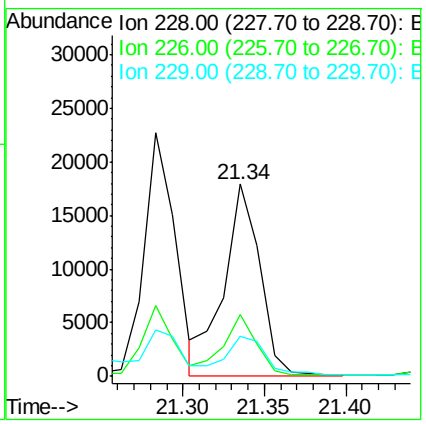
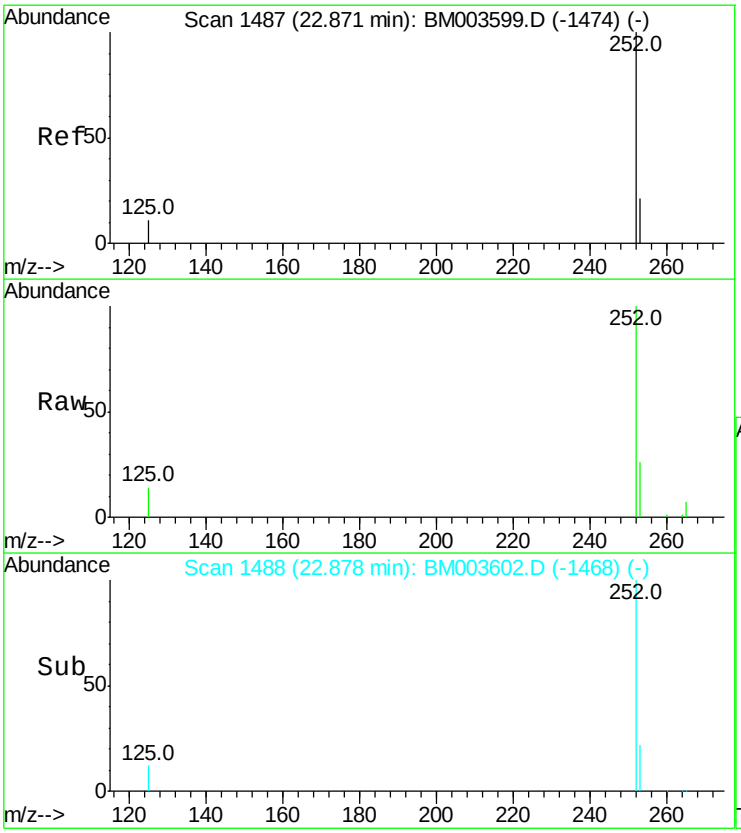
12/18/2015 6:22:57 PM

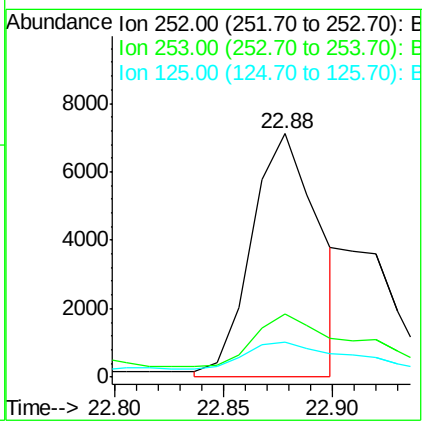


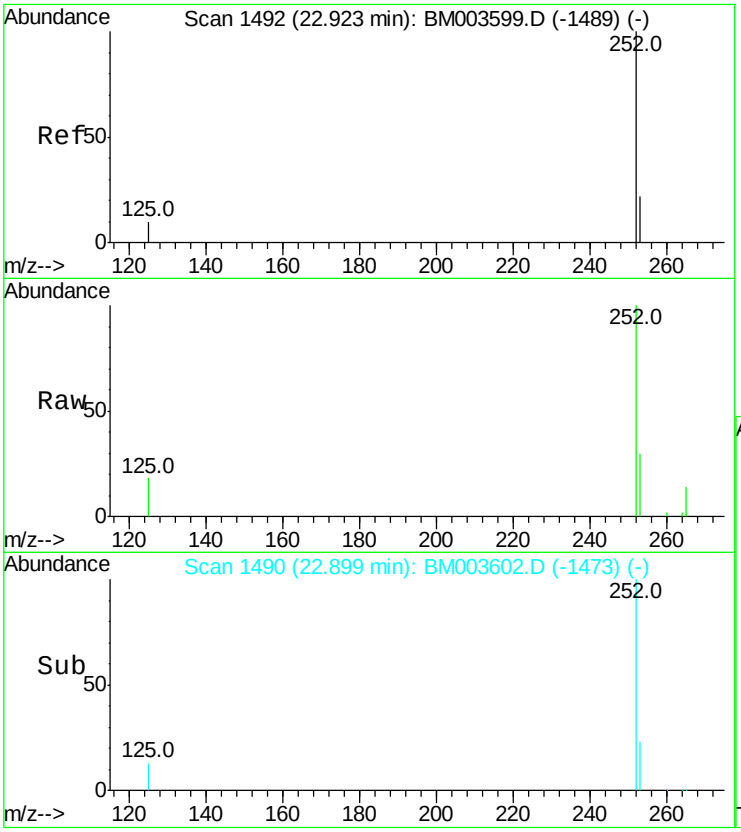




#23
Benzo(b)fluoranthene
Concen: 0.46 ng/ul m
RT: 22.88 min Scan# 1488
Delta R.T. 0.01 min
Lab File: BM003602.D
Acq: 17 Dec 2015 16:53

Tgt Ion:252 Resp: 15330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.9 | 0.0 | 45.4 |
| 125 | 14.4 | 0.0 | 28.8 |





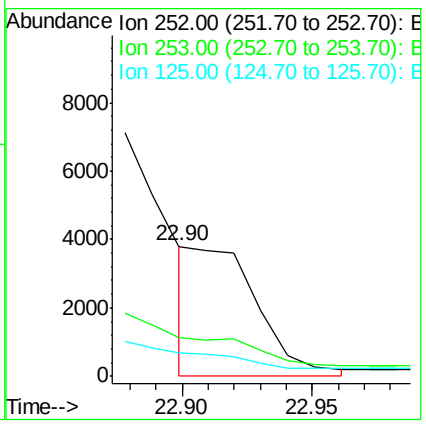

#24
Benzo(k)fluoranthene
Concen: 0.21 ng/ul m
RT: 22.90 min Scan# 1490
Delta R.T. -0.02 min
Lab File: BM003602.D
Acq: 17 Dec 2015 16:53

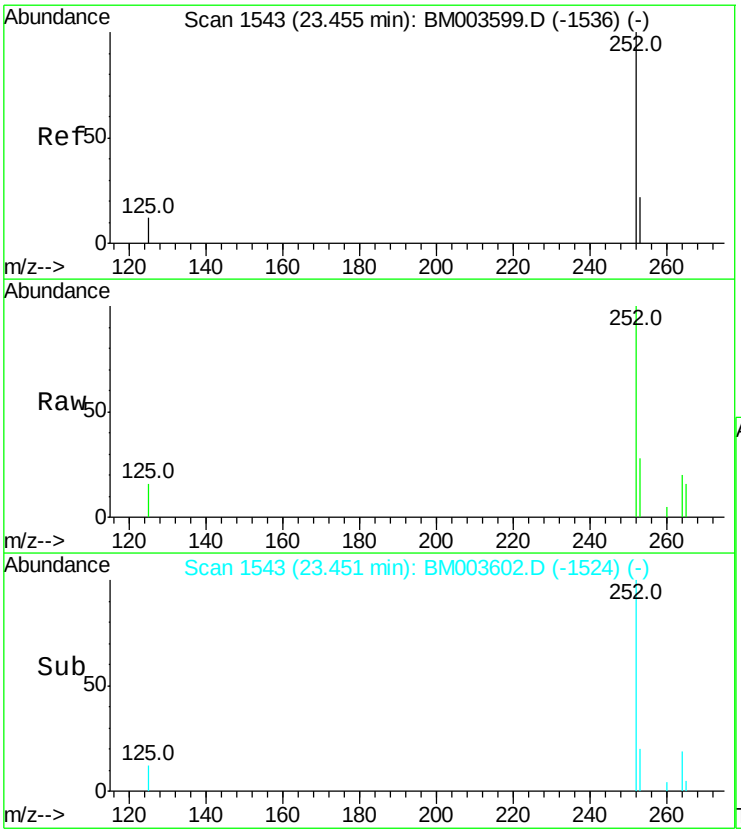
Tgt Ion:252 Resp: 6425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 30.0 | 19.8 | 29.8# |
| 125 | 18.1 | 10.4 | 15.6# |

**Instrument :**
BNA_M
**ClientSampleId :**
D9N30DL

**Manual Integrations APPROVED**
MMdadoda
12/18/2015 6:22:57 PM

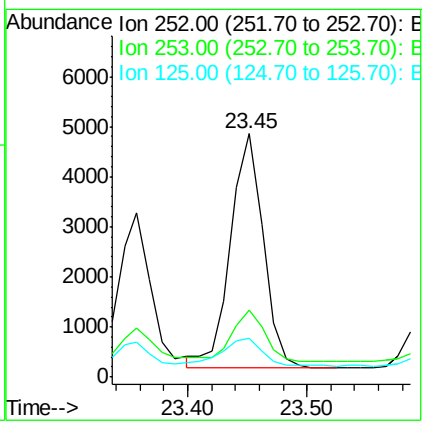


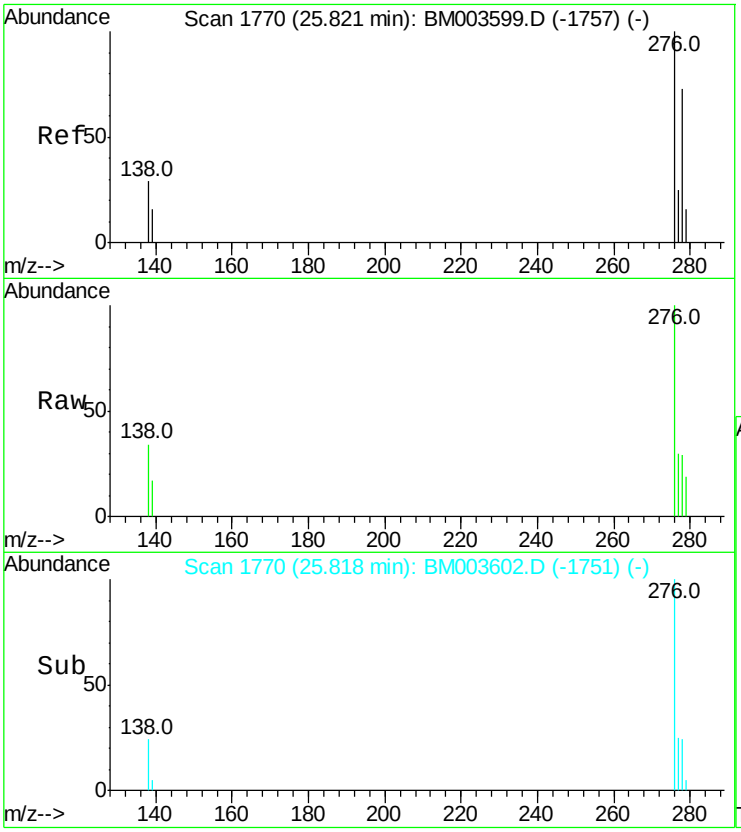




#25
Benzo(a)pyrene
Concen: 0.32 ng/ul
RT: 23.45 min Scan# 1543
Delta R.T. -0.00 min
Lab File: BM003602.D
Acq: 17 Dec 2015 16:53

Tgt Ion:252 Resp: 8885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.6 | 19.4 | 29.2 |
| 125 | 15.8 | 12.7 | 19.1 |





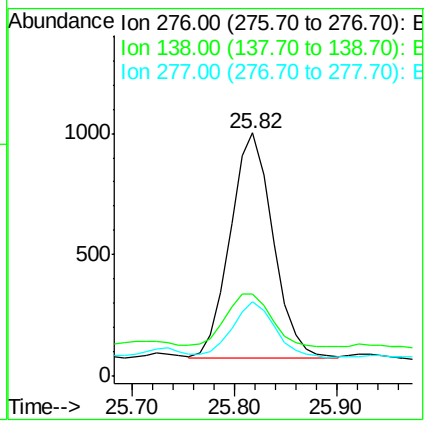

#26
Indeno(1,2,3-cd)pyrene
Concen: 0.08 ng/ul
RT: 25.82 min Scan# 1770
Delta R.T. -0.00 min
Lab File: BM003602.D
Acq: 17 Dec 2015 16:53

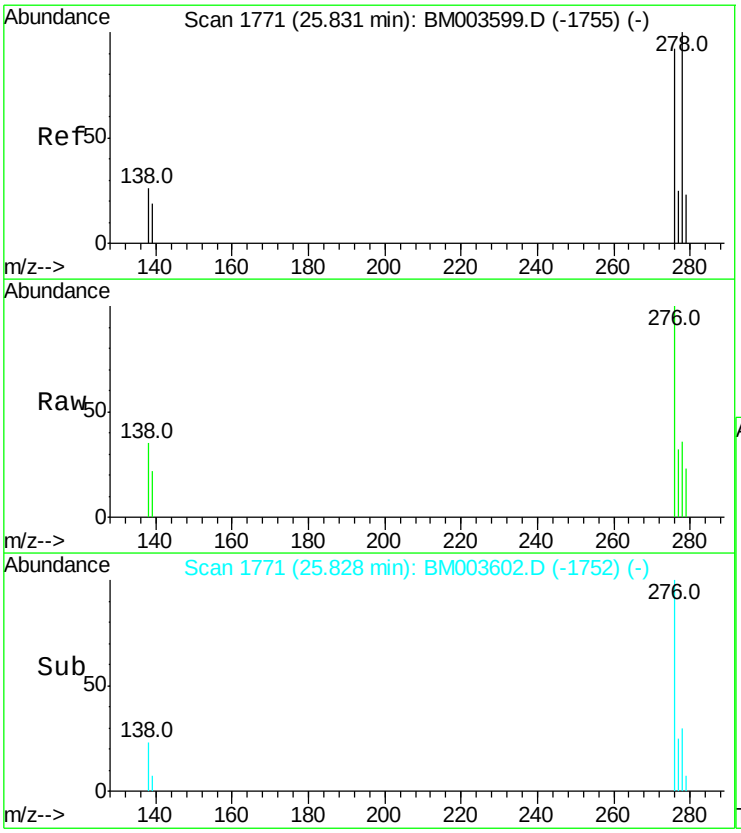
Tgt Ion:276 Resp: 2704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.7 | 16.3 | 24.5# |
| 277 | 23.9 | 19.8 | 29.8 |

**Instrument :**
BNA_M
**ClientSampleId :**
D9N30DL

**Manual Integrations APPROVED**
MMdadoda
12/18/2015 6:22:57 PM

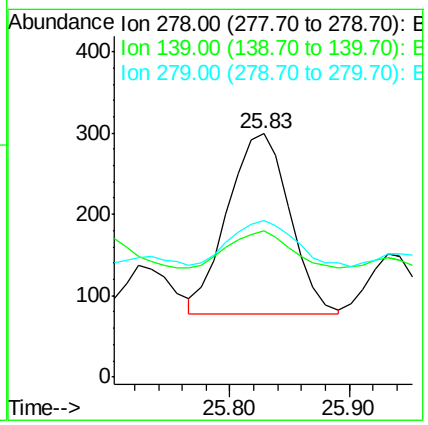


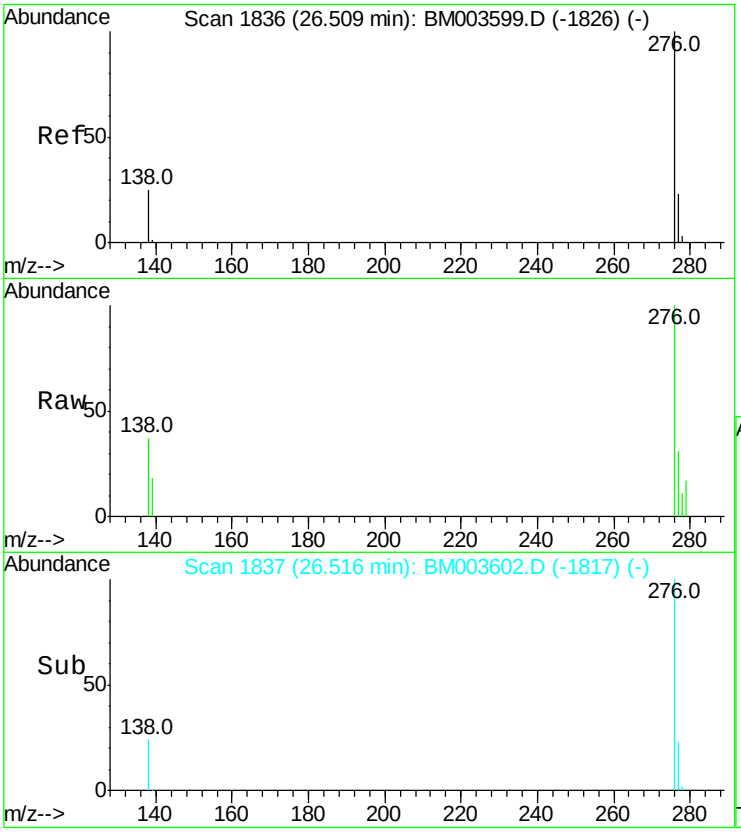




#27
Dibenzo(a,h)anthracene
Concen: 0.03 ng/ul
RT: 25.83 min Scan# 1771
Delta R.T. -0.00 min
Lab File: BM003602.D
Acq: 17 Dec 2015 16:53

Tgt Ion:278 Resp: 799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 60.2 | 16.4 | 24.6# |
| 279 | 64.2 | 20.2 | 30.2# |

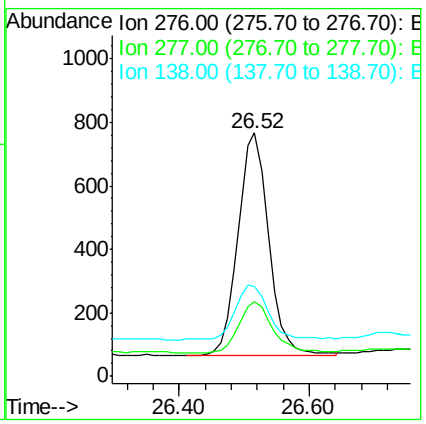





#28
Benzo(g,h,i)perylene
Concen: 0.08 ng/ul
RT: 26.52 min Scan# 1837
Delta R.T. 0.01 min
Lab File: BM003602.D
Acq: 17 Dec 2015 16:53

Tgt Ion:276 Resp: 2307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 30.8 | 18.9 | 28.3# |
| 138 | 37.2 | 22.5 | 33.7# |




**Instrument :**
BNA_M
**ClientSampleId :**
D9N30DL

**Manual Integrations APPROVED**
MMdadoda
12/18/2015 6:22:57 PM