Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030917\
Data File : BM009156.D
Acq On : 09 Mar 2017 21:33
Operator : SJ/MA
Sample : I2069-22
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AJ7

**Manual Integrations APPROVED**
mohammad
3/10/2017 6:01:32 PM

Quant Time: Mar 10 03:36:40 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 10 03:16:46 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.88 | 152 | 242 | 0.40 | ng/ul | 0.00 |
| 2) Naphthalene-d8 | 10.68 | 136 | 750 | 0.40 | ng/ul | 0.00 |
| 6) Acenaphthene-d10 | 14.52 | 164 | 458 | 0.40 | ng/ul | 0.00 |
| 10) Phenanthrene-d10 | 17.26 | 188 | 1139m | 0.40 | ng/ul | 0.00 |
| 16) Chrysene-d12 | 21.44 | 240 | 1266m | 0.40 | ng/ul | 0.00 |
| 20) Perylene-d12 | 23.78 | 264 | 1238m | 0.40 | ng/ul | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Methylnaphthalene-d10 | 12.27 | 152 | 231 | 0.19 | ng/ul | 0.00 |
| 14) Fluoranthene-d10 | 19.29 | 212 | 686 | 0.19 | ng/ul | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 3) Naphthalene | 10.73 | 128 | 1251 | 0.58 | ng/ul | 94 |
| 5) 2-Methylnaphthalene | 12.34 | 142 | 747 | 0.48 | ng/ul | 100 |
| 7) Acenaphthylene | 14.23 | 152 | 238 | 0.10 | ng/ul# | 44 |
| 8) Acenaphthene | 14.57 | 153 | 597 | 0.33 | ng/ul# | 87 |
| 9) Fluorene | 15.56 | 166 | 532m | 0.25 | ng/ul | |
| 12) Phenanthrene | 17.30 | 178 | 11830m | 3.31 | ng/ul | |
| 13) Anthracene | 17.40 | 178 | 2138 | 0.61 | ng/ul | 96 |
| 15) Fluoranthene | 19.32 | 202 | 28989 | 6.21 | ng/ul | 92 |
| 17) Pyrene | 19.68 | 202 | 25882m | 5.94 | ng/ul | |
| 18) Benzo(a)anthracene | 21.42 | 228 | 16845m | 4.00 | ng/ul | |
| 19) Chrysene | 21.47 | 228 | 16985m | 4.26 | ng/ul | |
| 21) Benzo(b)fluoranthene | 23.07 | 252 | 24234m | 4.98 | ng/ul | |
| 22) Benzo(k)fluoranthene | 23.11 | 252 | 5953m | 1.38 | ng/ul | |
| 23) Benzo(a)pyrene | 23.67 | 252 | 14227m | 3.25 | ng/ul | |
| 24) Indeno(1,2,3-cd)pyrene | 26.15 | 276 | 9416m | 1.69 | ng/ul | |
| 25) Dibenzo(a,h)anthracene | 26.17 | 278 | 2705m | 0.58 | ng/ul | |
| 26) Benzo(g,h,i)perylene | 26.88 | 276 | 7532m | 1.59 | ng/ul | |

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

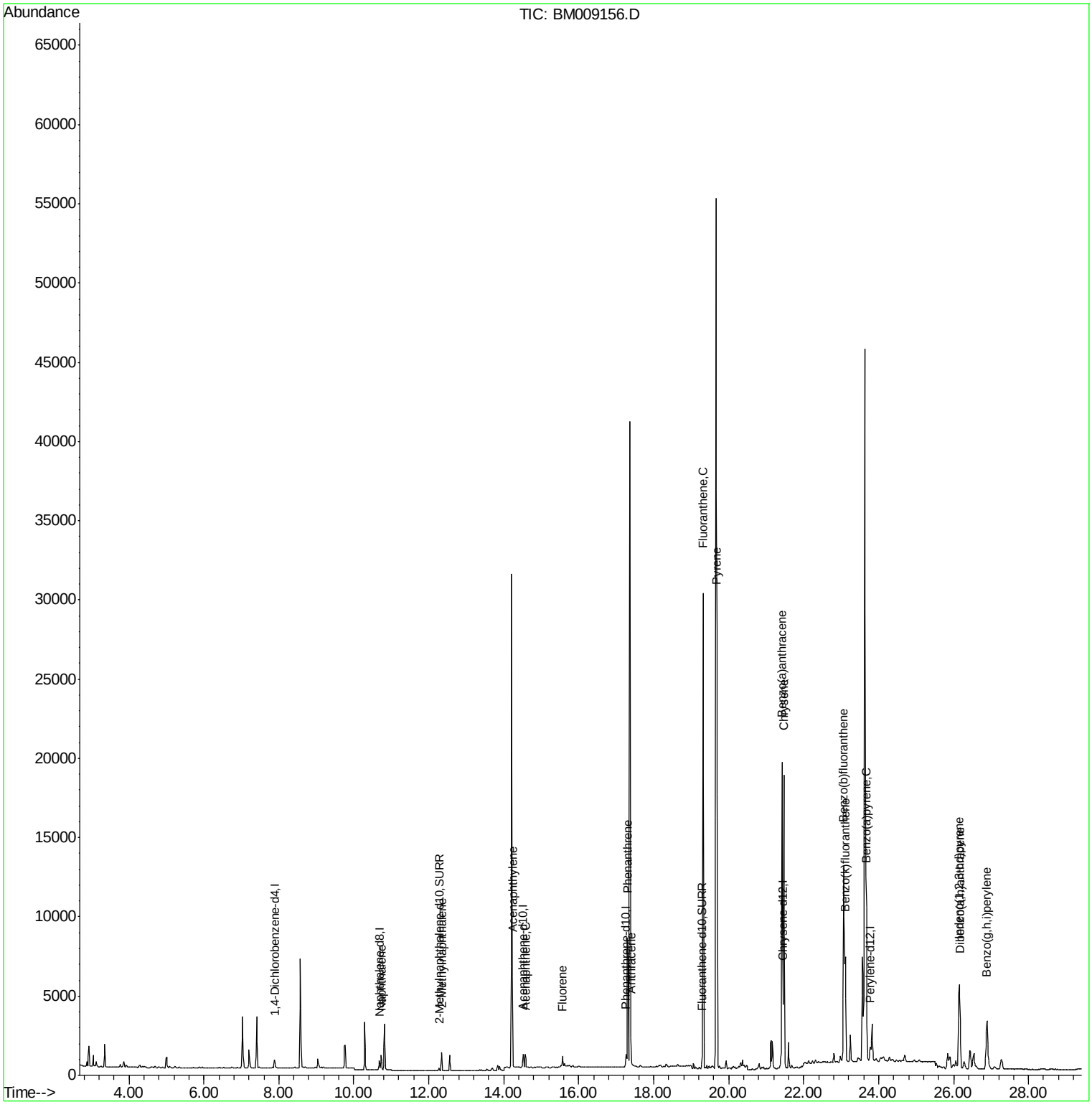
Quantitation Report (QT Reviewed)

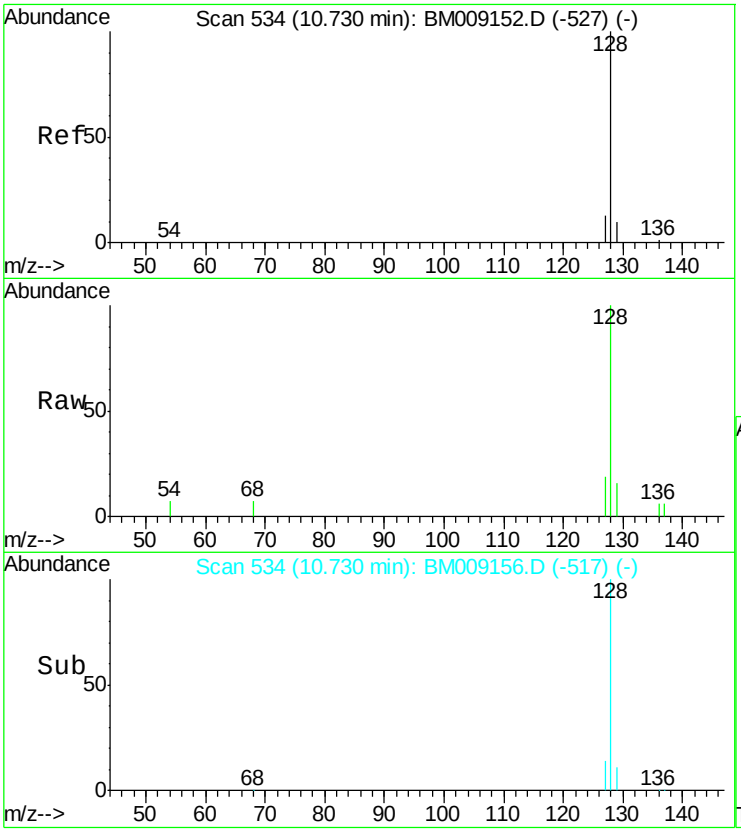
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030917\
Data File : BM009156.D
Acq On : 09 Mar 2017 21:33
Operator : SJ/MA
Sample : I2069-22
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 10 03:36:40 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 10 03:16:46 2017
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
C0AJ7

**Manual Integrations APPROVED**
mohammad
3/10/2017 6:01:32 PM

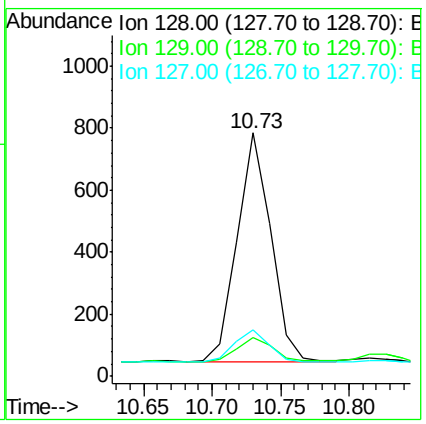





#3
Naphthalene
Concen: 0.58 ng/ul
RT: 10.73 min Scan# 534
Delta R.T. 0.00 min
Lab File: BM009156.D
Acq: 09 Mar 2017 21:33

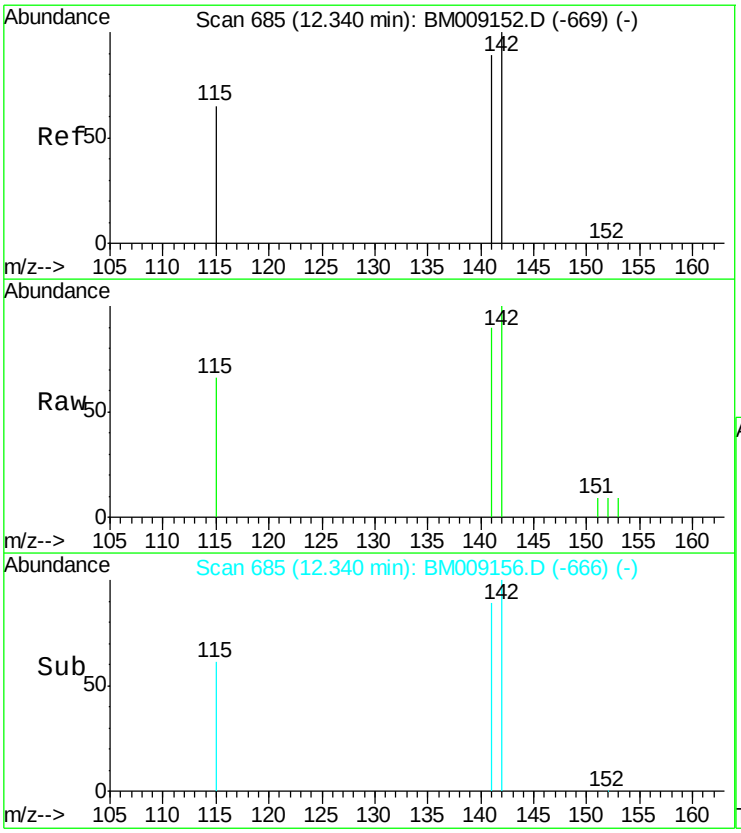
Tgt Ion:128 Resp: 1251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 16.1 | 11.3 | 16.9 |
| 127 | 18.9 | 12.8 | 19.2 |




**Instrument :**
BNA_M
**ClientSampleId :**
C0AJ7

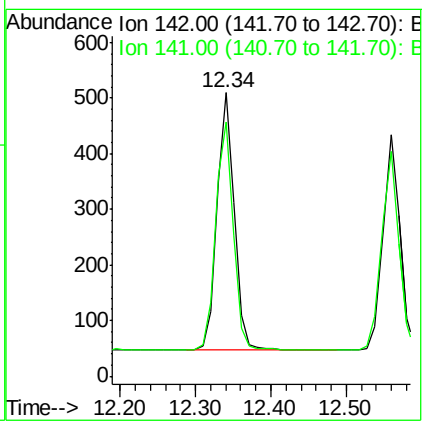
**Manual Integrations APPROVED**
mohammad
3/10/2017 6:01:32 PM

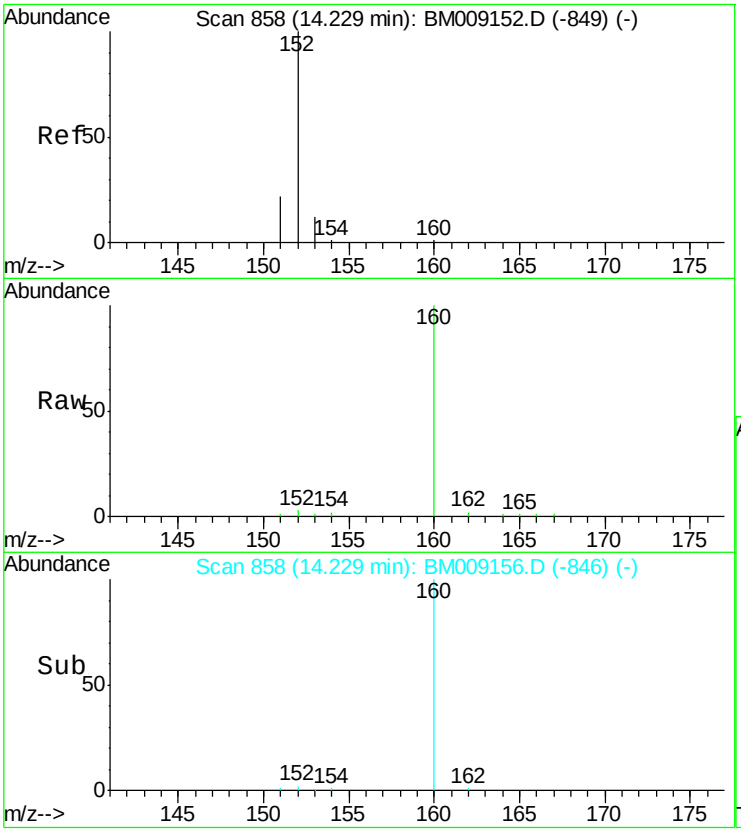



#5
2-Methylnaphthalene
Concen: 0.48 ng/ul
RT: 12.34 min Scan# 685
Delta R.T. 0.00 min
Lab File: BM009156.D
Acq: 09 Mar 2017 21:33

Tgt Ion:142 Resp: 747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.8 | 72.6 | 108.8 |

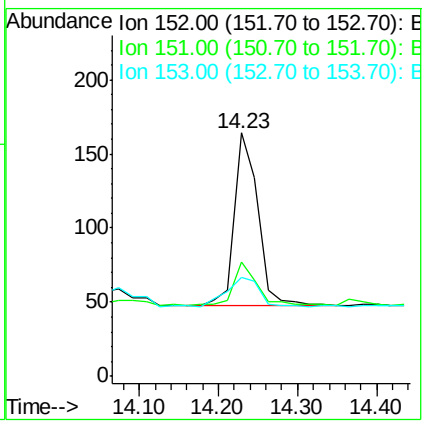





#7
Acenaphthylene
Concen: 0.10 ng/ul
RT: 14.23 min Scan# 858
Delta R.T. 0.00 min
Lab File: BM009156.D
Acq: 09 Mar 2017 21:33

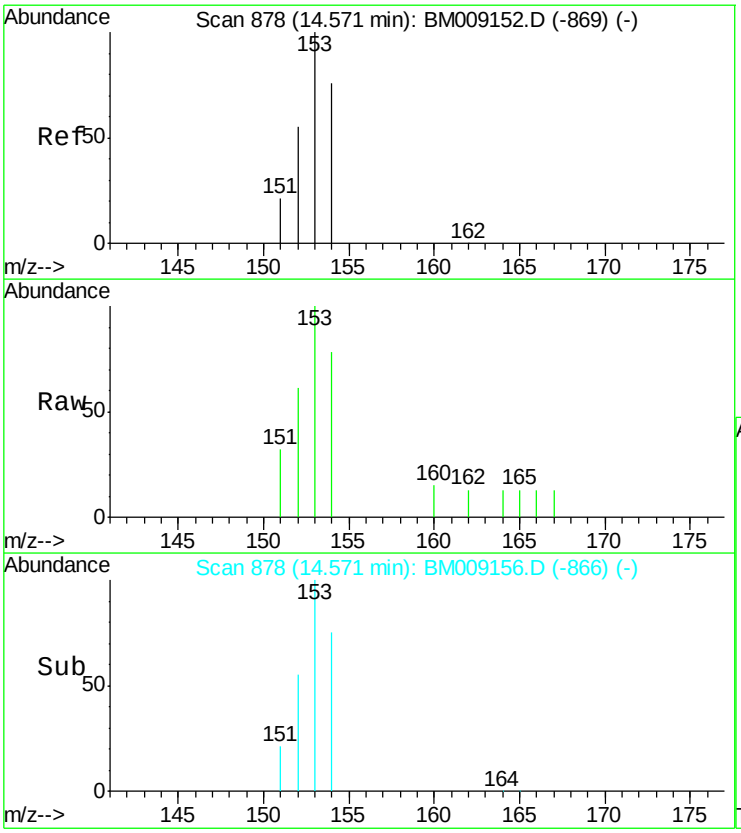
Tgt Ion:152 Resp: 238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 47.0 | 17.1 | 25.7# |
| 153 | 40.9 | 12.8 | 19.2# |




**Instrument :**
BNA_M
**ClientSampleId :**
C0AJ7

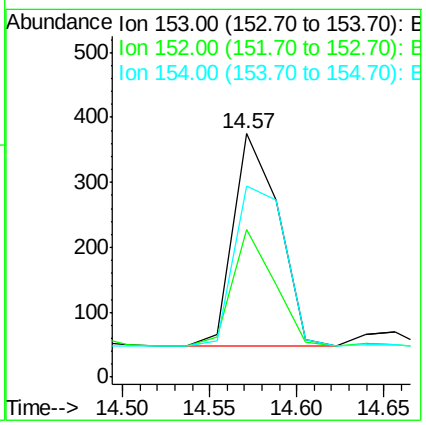
**Manual Integrations APPROVED**
mohammad
3/10/2017 6:01:32 PM

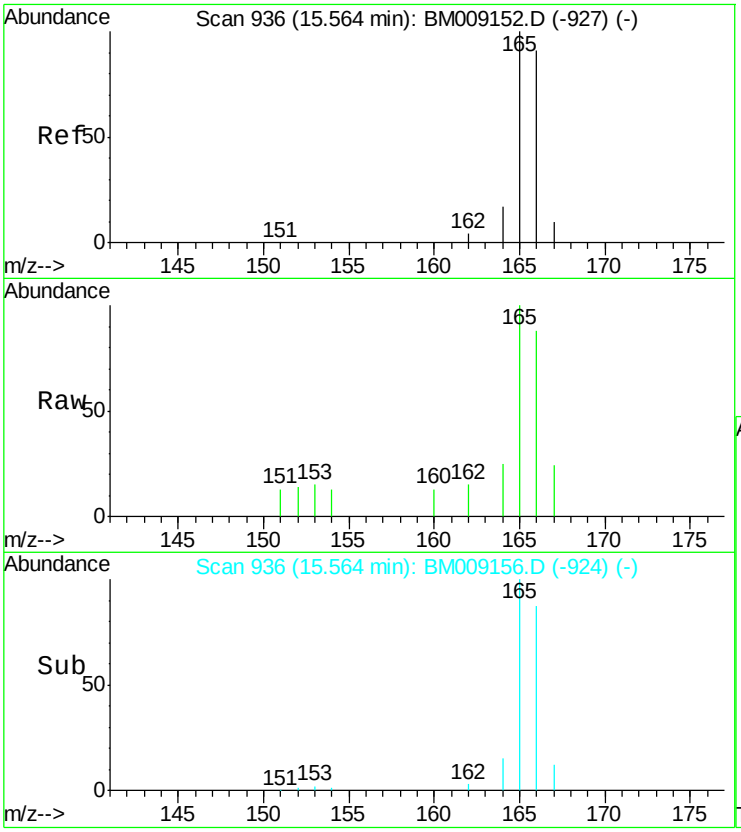



#8
Acenaphthene
Concen: 0.33 ng/ul
RT: 14.57 min Scan# 878
Delta R.T. 0.00 min
Lab File: BM009156.D
Acq: 09 Mar 2017 21:33

Tgt Ion:153 Resp: 597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 153 | 100 | | |
| 152 | 60.5 | 40.3 | 60.5# |
| 154 | 78.4 | 71.4 | 107.2 |

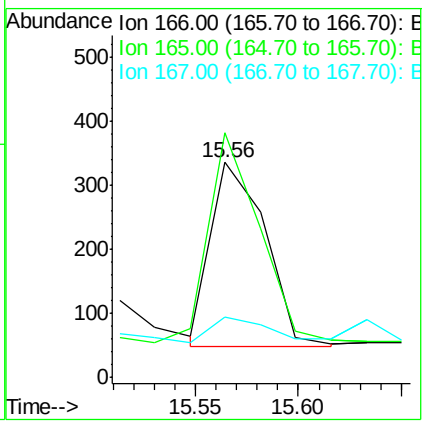





#9
Fluorene
Concen: 0.25 ng/ul m
RT: 15.56 min Scan# 936
Delta R.T. 0.00 min
Lab File: BM009156.D
Acq: 09 Mar 2017 21:33

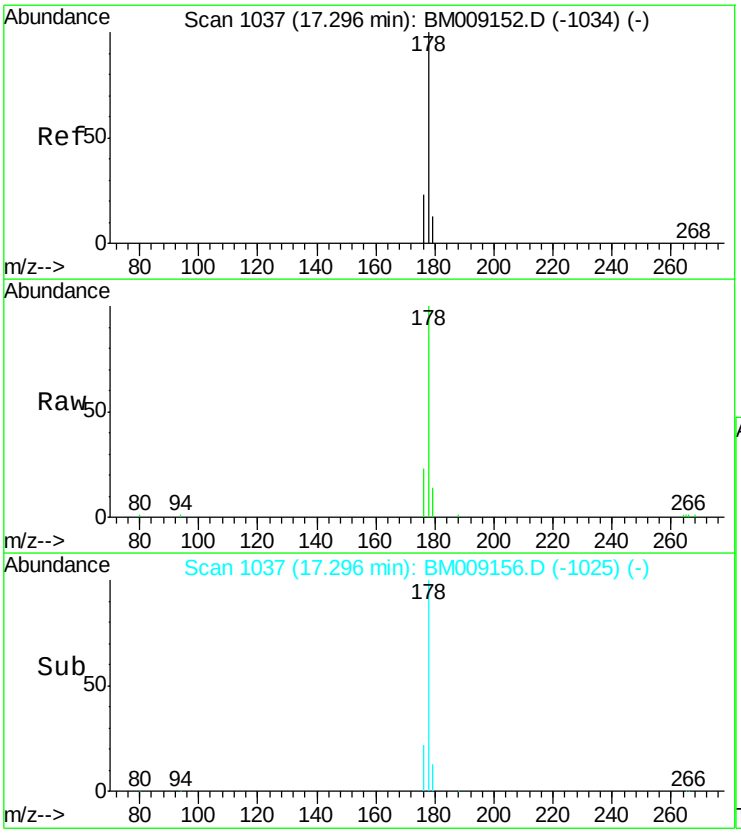
Tgt Ion:166 Resp: 532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 113.7 | 73.4 | 110.2# |
| 167 | 27.8 | 14.6 | 22.0# |




**Instrument :**
BNA_M
**ClientSampleId :**
C0AJ7

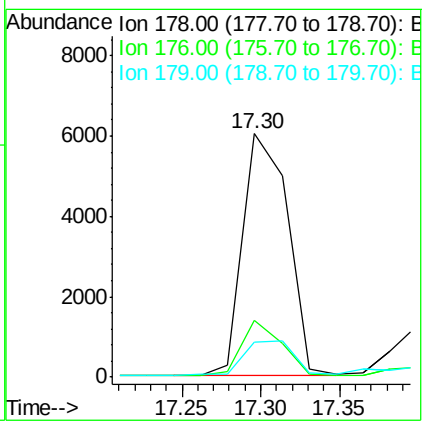
**Manual Integrations APPROVED**
mohammad
3/10/2017 6:01:32 PM

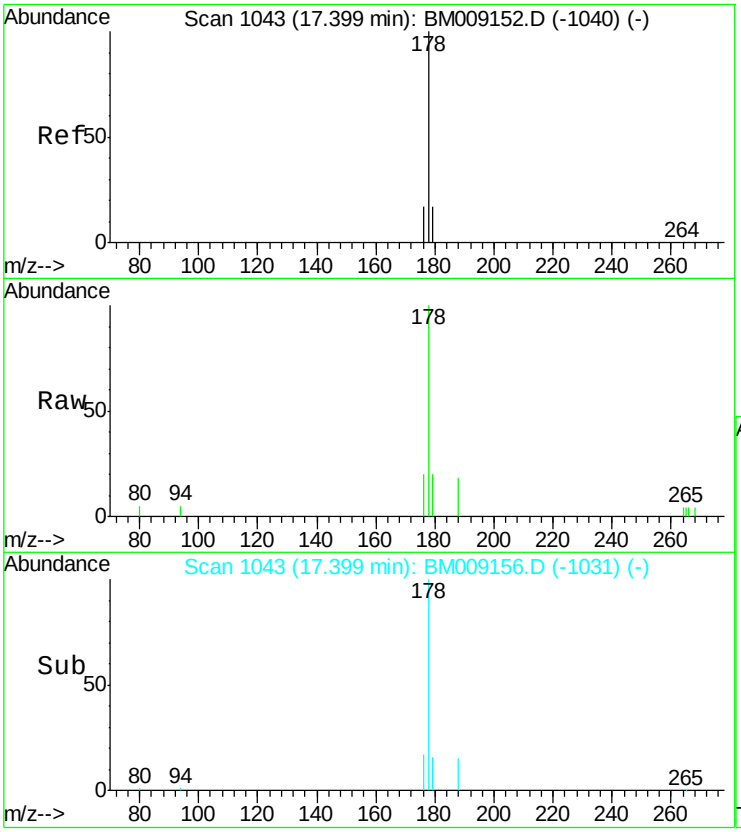



#12
Phenanthrene
Concen: 3.31 ng/ul m
RT: 17.30 min Scan# 1037
Delta R.T. 0.00 min
Lab File: BM009156.D
Acq: 09 Mar 2017 21:33

Tgt Ion:178 Resp: 11830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 23.1 | 18.4 | 27.6 |
| 179 | 14.2 | 13.6 | 20.4 |





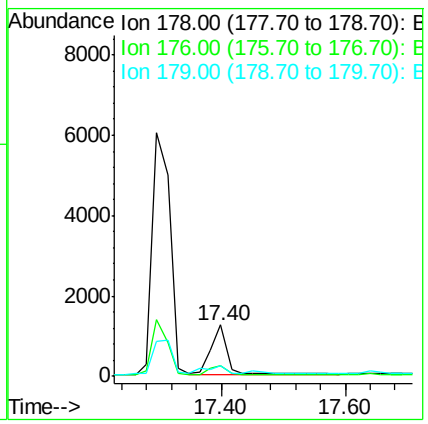

#13
Anthracene
Concen: 0.61 ng/ul
RT: 17.40 min Scan# 1043
Delta R.T. 0.00 min
Lab File: BM009156.D
Acq: 09 Mar 2017 21:33

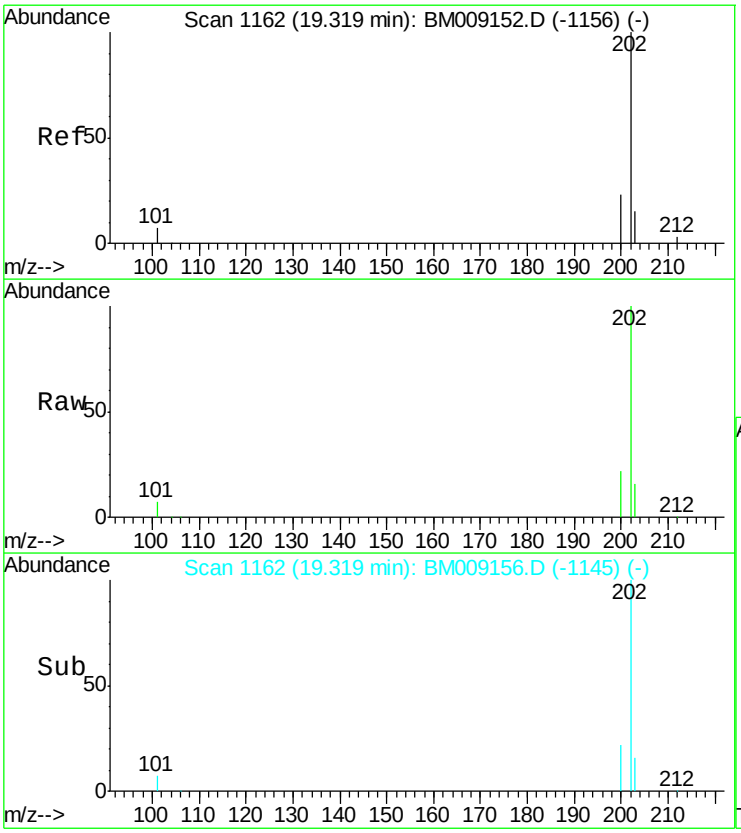
Tgt Ion:178 Resp: 2138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.1 | 18.1 | 27.1 |
| 179 | 19.8 | 14.7 | 22.1 |

**Instrument :**
BNA_M
**ClientSampleId :**
C0AJ7

**Manual Integrations APPROVED**
mohammad
3/10/2017 6:01:32 PM

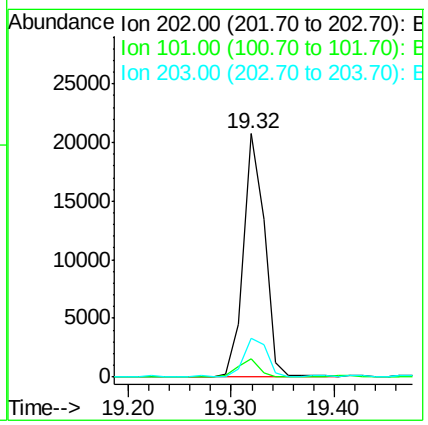


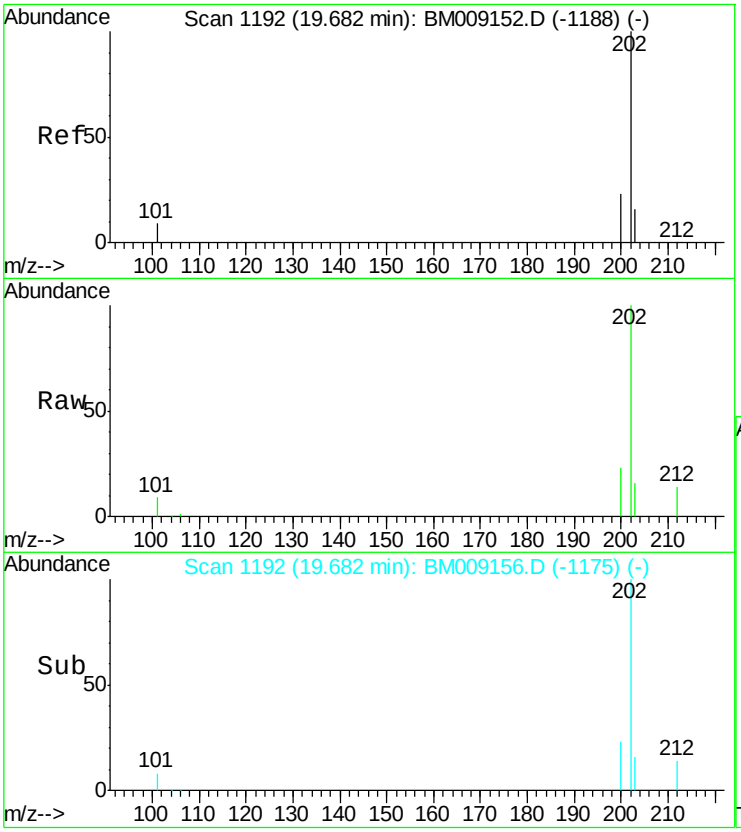




#15
Fluoranthene
Concen: 6.21 ng/ul
RT: 19.32 min Scan# 1162
Delta R.T. 0.00 min
Lab File: BM009156.D
Acq: 09 Mar 2017 21:33

Tgt Ion:202 Resp: 28989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 7.3 | 0.0 | 30.3 |
| 203 | 16.1 | 0.0 | 39.5 |





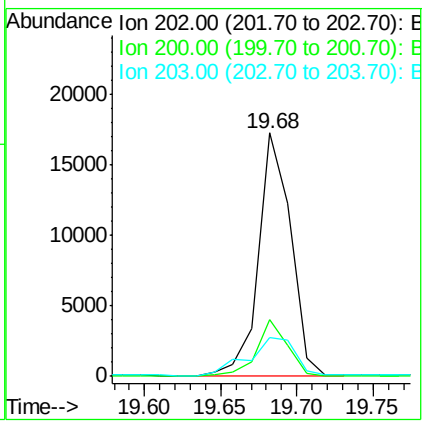

#17
Pyrene
Concen: 5.94 ng/ul m
RT: 19.68 min Scan# 1192
Delta R.T. 0.00 min
Lab File: BM009156.D
Acq: 09 Mar 2017 21:33

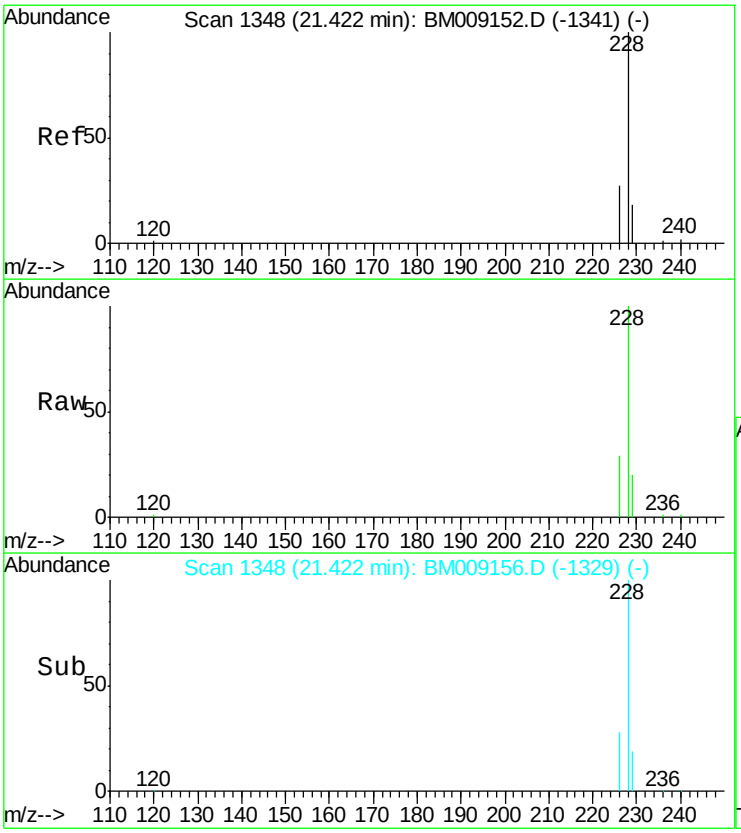
Tgt Ion:202 Resp: 25882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 23.5 | 18.2 | 27.4 |
| 203 | 16.1 | 15.6 | 23.4 |

**Instrument :**
BNA_M
**ClientSampleId :**
C0AJ7

**Manual Integrations APPROVED**
mohammad
3/10/2017 6:01:32 PM

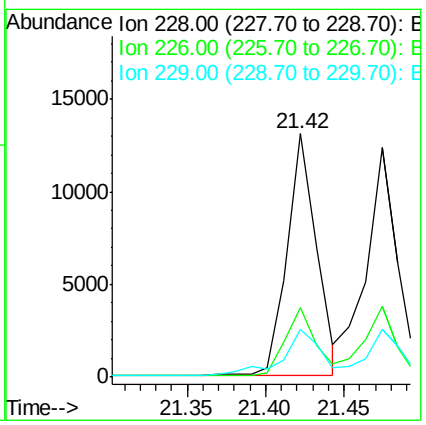


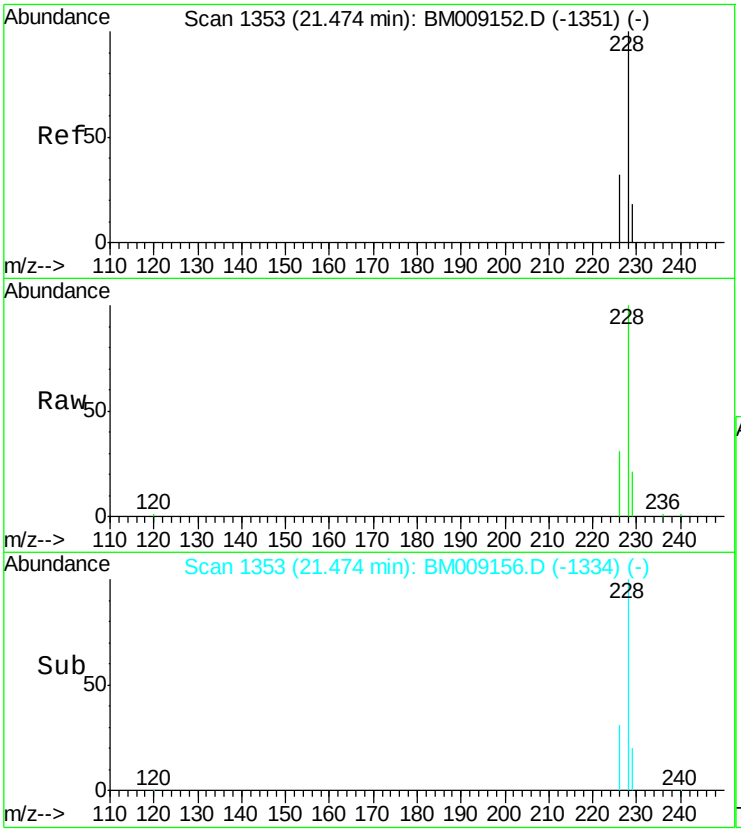




#18
Benzo(a)anthracene
Concen: 4.00 ng/ul m
RT: 21.42 min Scan# 1348
Delta R.T. 0.00 min
Lab File: BM009156.D
Acq: 09 Mar 2017 21:33

Tgt Ion:228 Resp: 16845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.8 | 22.8 | 34.2 |
| 229 | 19.7 | 17.0 | 25.6 |





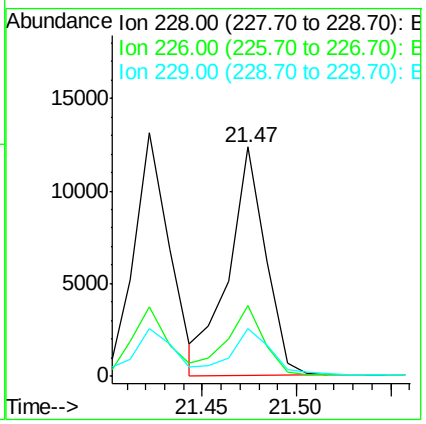

#19
Chrysene
Concen: 4.26 ng/ul m
RT: 21.47 min Scan# 1353
Delta R.T. 0.00 min
Lab File: BM009156.D
Acq: 09 Mar 2017 21:33

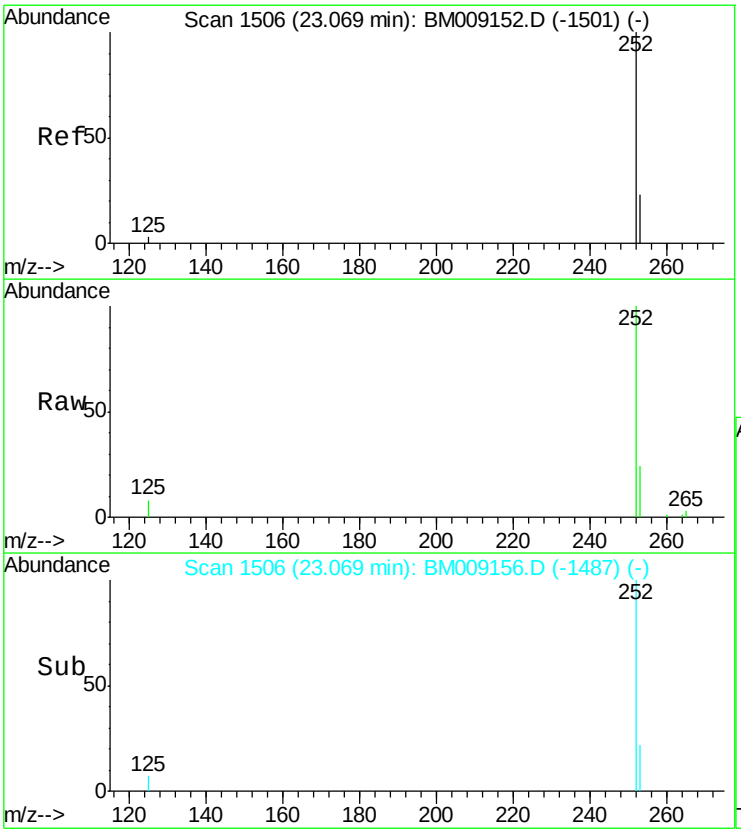
Tgt Ion:228 Resp: 16985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.9 | 23.4 | 35.0 |
| 229 | 20.8 | 17.7 | 26.5 |

**Instrument :**
BNA_M
**ClientSampleId :**
C0AJ7

**Manual Integrations APPROVED**
mohammad
3/10/2017 6:01:32 PM

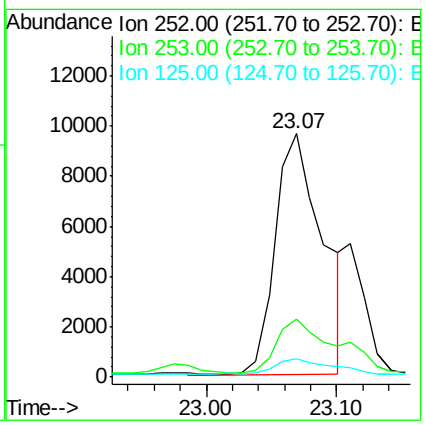


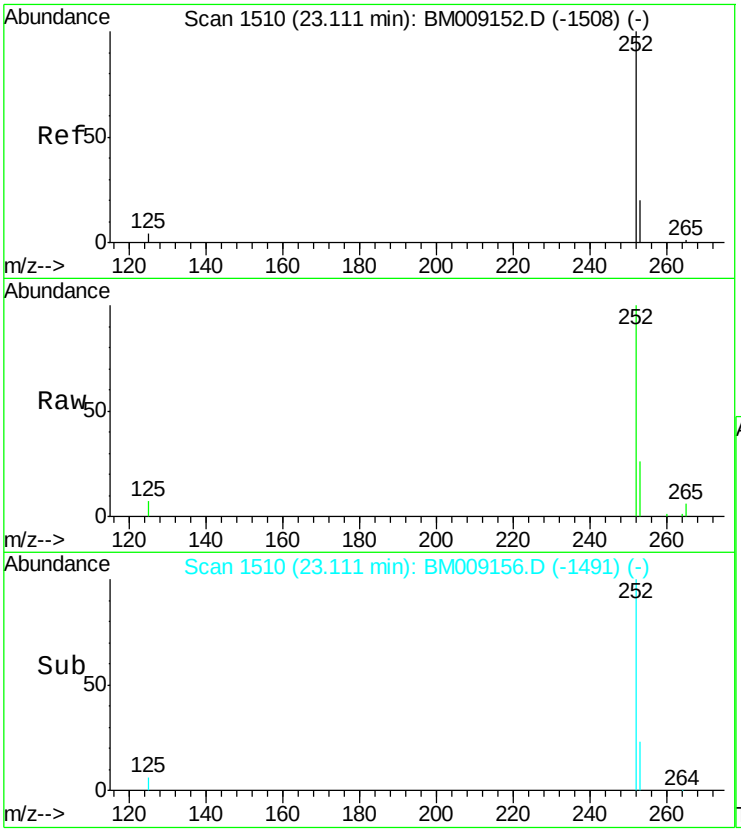




#21
Benzo(b)fluoranthene
Concen: 4.98 ng/ul m
RT: 23.07 min Scan# 1506
Delta R.T. 0.00 min
Lab File: BM009156.D
Acq: 09 Mar 2017 21:33

Tgt Ion:252 Resp: 24234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.0 | 0.0 | 64.2 |
| 125 | 7.5 | 0.0 | 35.0 |





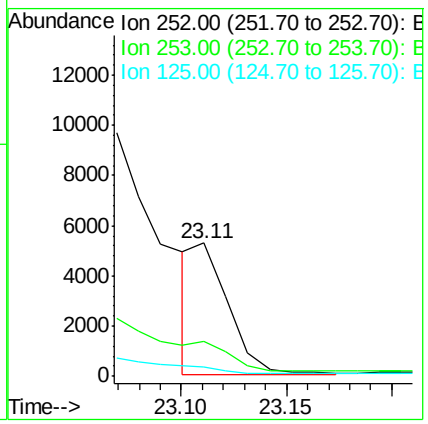

#22
Benzo(k)fluoranthene
Concen: 1.38 ng/ul m
RT: 23.11 min Scan# 1510
Delta R.T. 0.00 min
Lab File: BM009156.D
Acq: 09 Mar 2017 21:33

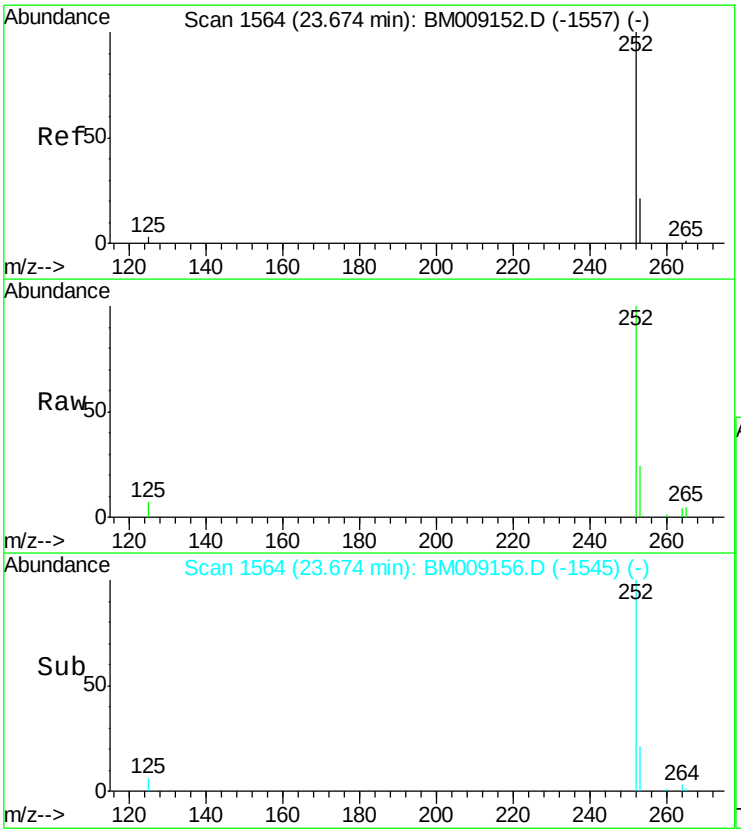
Tgt Ion:252 Resp: 5953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.0 | 24.5 | 36.7 |
| 125 | 7.2 | 13.7 | 20.5# |

**Instrument :**
BNA_M
**ClientSampleId :**
C0AJ7

**Manual Integrations APPROVED**
mohammad
3/10/2017 6:01:32 PM

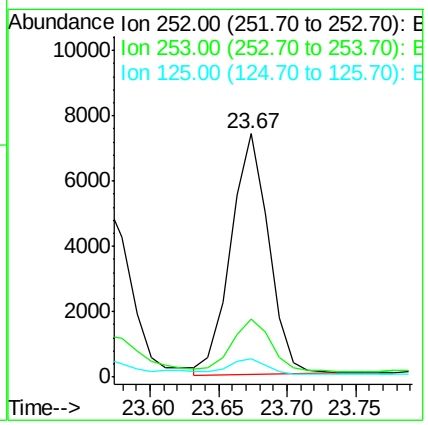


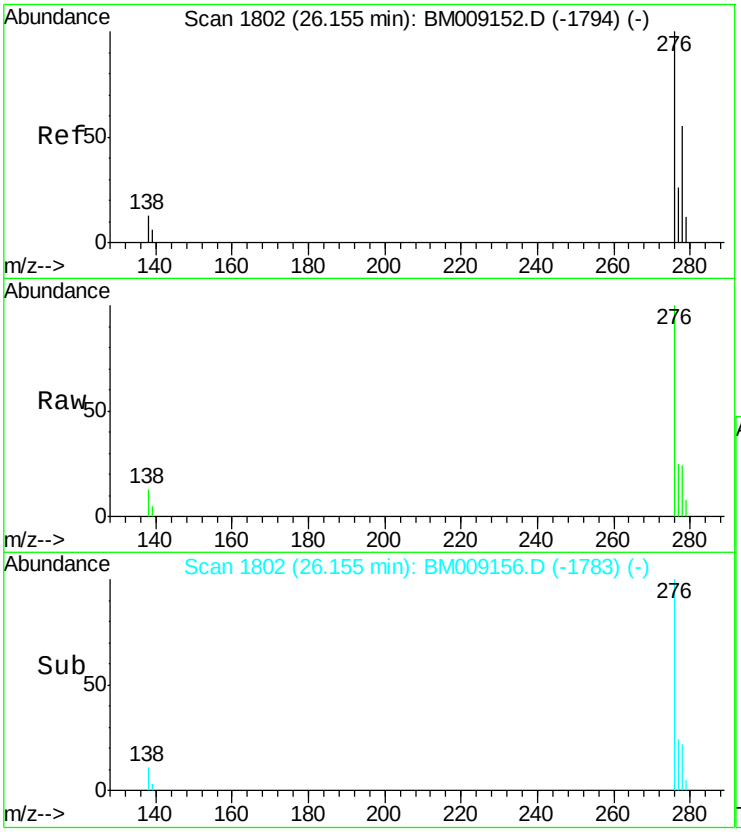




#23
Benzo(a)pyrene
Concen: 3.25 ng/ul m
RT: 23.67 min Scan# 1564
Delta R.T. 0.00 min
Lab File: BM009156.D
Acq: 09 Mar 2017 21:33

Tgt Ion:252 Resp: 14227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.0 | 28.5 | 42.7# |
| 125 | 7.3 | 18.1 | 27.1# |





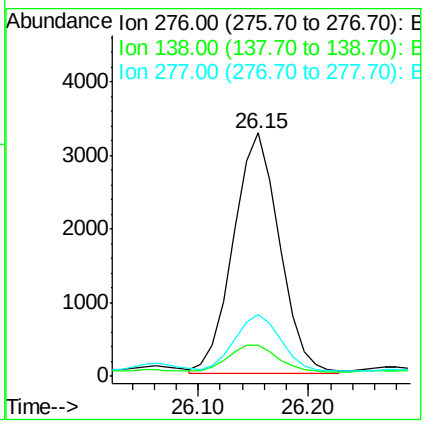

#24
Indeno(1,2,3-cd)pyrene
Concen: 1.69 ng/ul m
RT: 26.15 min Scan# 1802
Delta R.T. 0.00 min
Lab File: BM009156.D
Acq: 09 Mar 2017 21:33

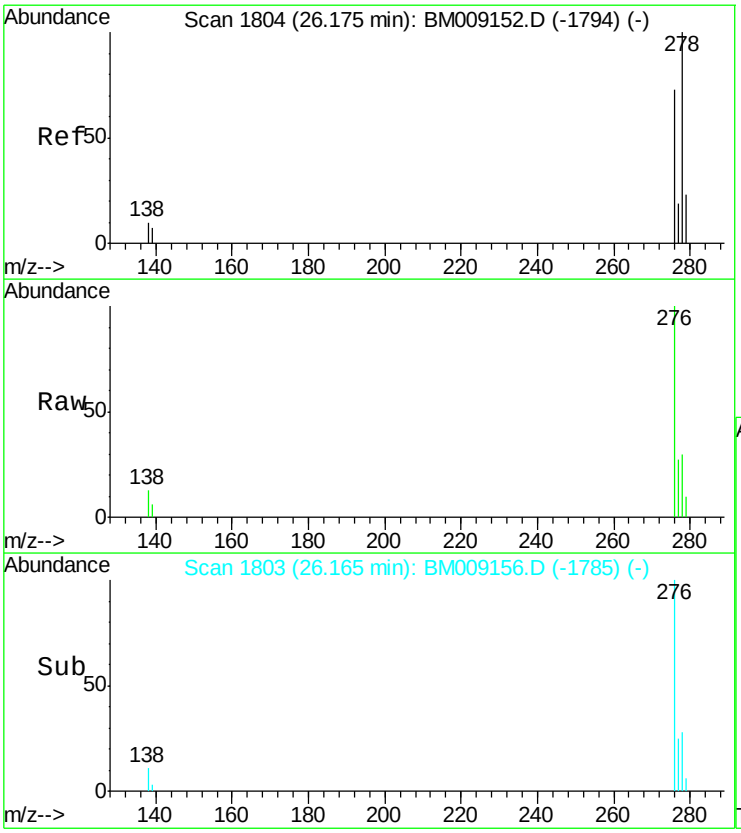
Tgt Ion:276 Resp: 9416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 1.6 | 19.1 | 28.7# |
| 277 | 2.4 | 19.6 | 29.4# |

**Instrument :**
BNA_M
**ClientSampleId :**
C0AJ7

**Manual Integrations APPROVED**
mohammad
3/10/2017 6:01:32 PM

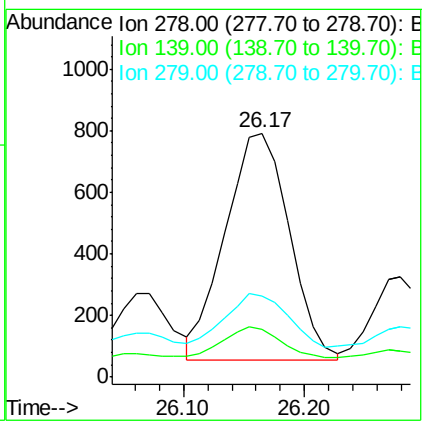


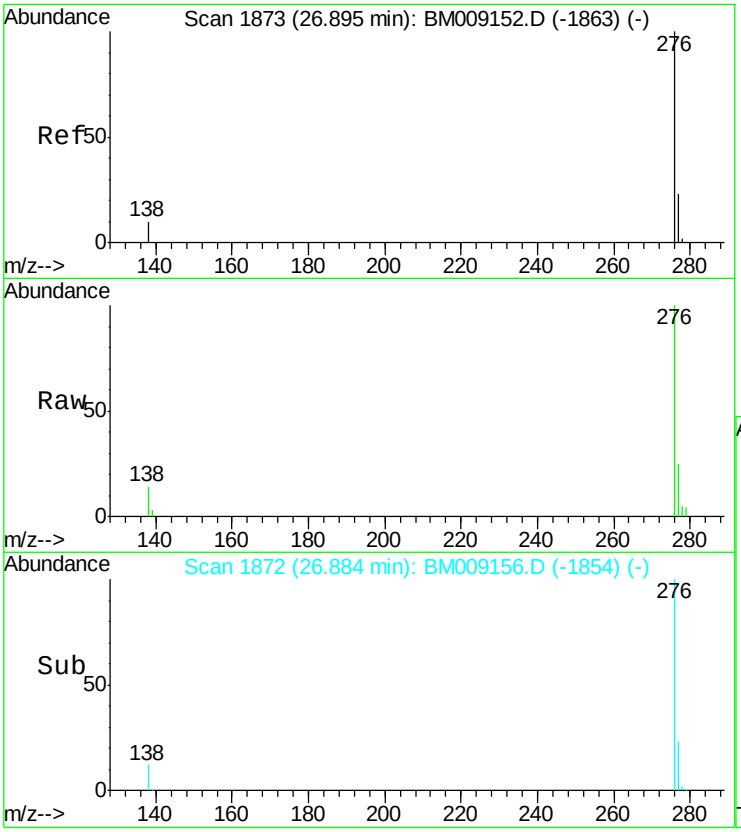




#25
Dibenzo(a,h)anthracene
Concen: 0.58 ng/ul m
RT: 26.17 min Scan# 1803
Delta R.T. -0.01 min
Lab File: BM009156.D
Acq: 09 Mar 2017 21:33

Tgt Ion:278 Resp: 2705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 19.7 | 17.4 | 26.0 |
| 279 | 33.4 | 25.9 | 38.9 |

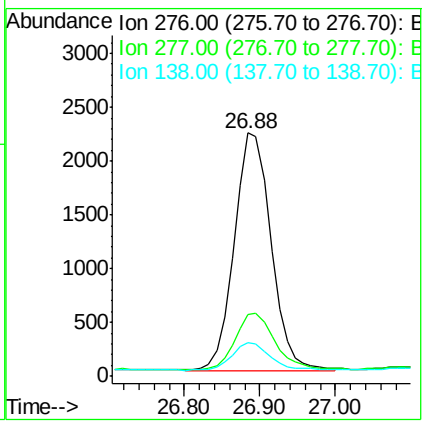





#26
Benzo(g,h,i)perylene
Concen: 1.59 ng/ul m
RT: 26.88 min Scan# 1872
Delta R.T. -0.01 min
Lab File: BM009156.D
Acq: 09 Mar 2017 21:33

Tgt Ion:276 Resp: 7532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.4 | 21.8 | 32.8 |
| 138 | 14.0 | 20.5 | 30.7# |




**Instrument :**
BNA_M
**ClientSampleId :**
C0AJ7

**Manual Integrations APPROVED**
mohammad
3/10/2017 6:01:32 PM