Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM081215\
Data File : BM002377.D
Acq On : 13 Aug 2015 01:00
Operator : UM/IZ
Sample : G3163-22
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
D9D07

**Manual Integrations APPROVED**
MMDadoda
8/13/2015 10:58:28 AM

Quant Time: Aug 13 02:16:11 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080715MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Aug 13 00:45:03 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 8.90 | 152 | 159107 | 20.00 | ng/ul | 0.00 |
| 2) Naphthalene-d8 | 11.77 | 136 | 758196 | 20.00 | ng/ul | 0.00 |
| 6) Acenaphthene-d10 | 15.49 | 164 | 398903 | 20.00 | ng/ul | 0.00 |
| 12) Phenanthrene-d10 | 18.20 | 188 | 728632 | 20.00 | ng/ul | 0.00 |
| 17) Chrysene-d12 | 22.29 | 240 | 496252 | 20.00 | ng/ul | 0.00 |
| 22) Perylene-d12 | 24.99 | 264 | 469329 | 20.00 | ng/ul | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 7) Acenaphthylene-d8 | 15.19 | 160 | 950959 | 23.01 | ng/ul | 0.00 |
| 10) Fluorene-d10 | 16.46 | 176 | 606440 | 21.10 | ng/ul | 0.00 |
| 14) Anthracene-d10 | 18.30 | 188 | 785543 | 22.22 | ng/ul | 0.00 |
| 18) Pyrene-d10 | 20.52 | 212 | 634172 | 26.35 | ng/ul | 0.00 |
| 25) Benzo(a)pyrene-d12 | 24.81 | 264 | 535698 | 21.50 | ng/ul | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 13) Phenanthrene | 18.24 | 178 | 68338 | 1.63 | ng/ul | 99 |
| 16) Fluoranthene | 20.19 | 202 | 170403 | 3.67 | ng/ul | 98 |
| 19) Pyrene | 20.54 | 202 | 126914 | 3.96 | ng/ul | 97 |
| 20) Benzo(a)anthracene | 22.27 | 228 | 82379 | 2.72 | ng/ul | 98 |
| 21) Chrysene | 22.33 | 228 | 78311m | 2.73 | ng/ul | |
| 23) Benzo(b)fluoranthene | 24.15 | 252 | 109466 | 3.75 | ng/ul# | 90 |
| 24) Benzo(k)fluoranthene | 24.20 | 252 | 29843m | 1.07 | ng/ul | |
| 26) Benzo(a)pyrene | 24.87 | 252 | 63294 | 2.27 | ng/ul# | 86 |
| 27) Indeno(1,2,3-cd)pyrene | 27.83 | 276 | 48126 | 1.50 | ng/ul | 98 |
| 29) Benzo(g,h,i)perylene | 28.73 | 276 | 42826 | 1.59 | ng/ul# | 92 |

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

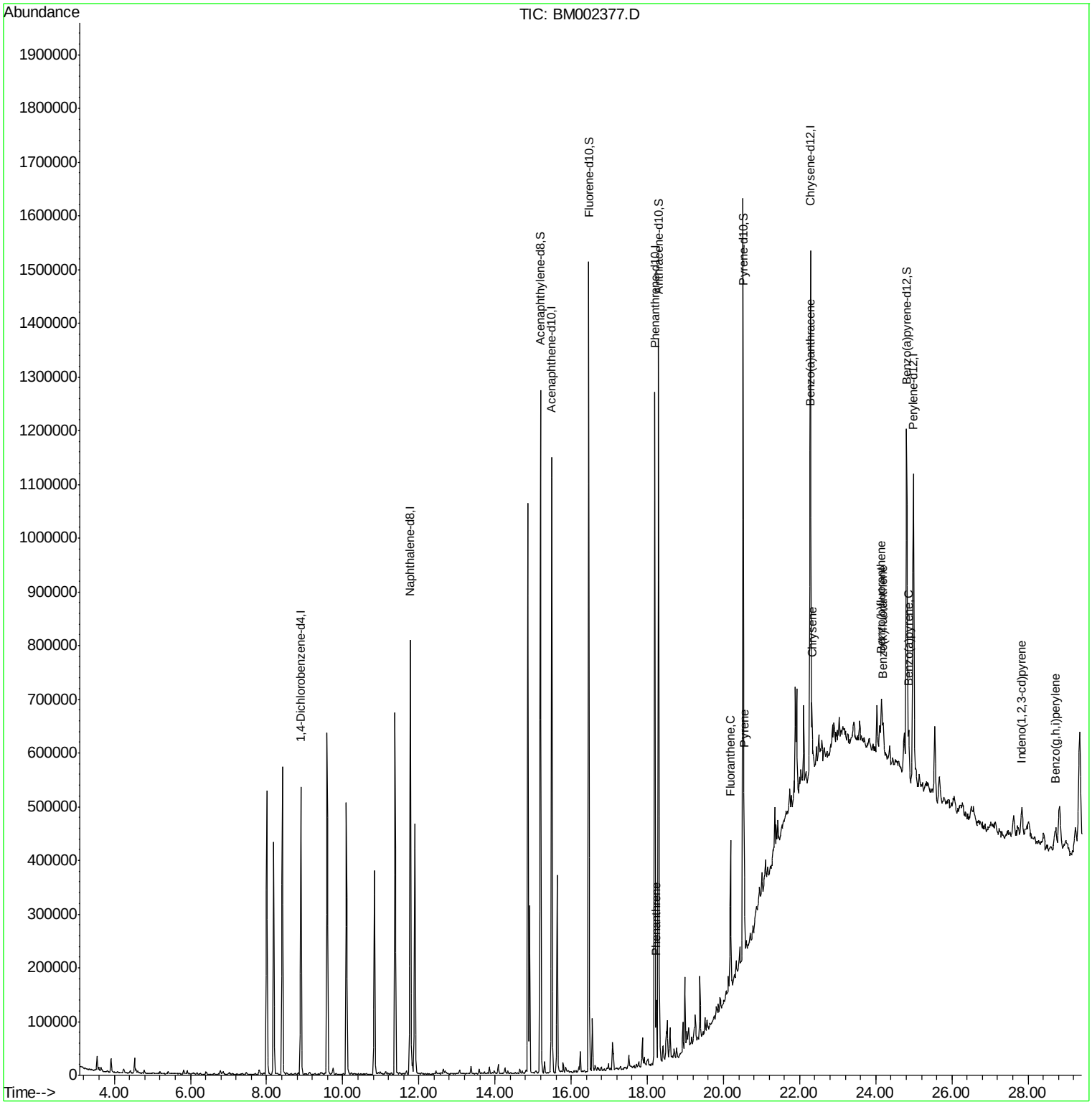
Quantitation Report (QT Reviewed)

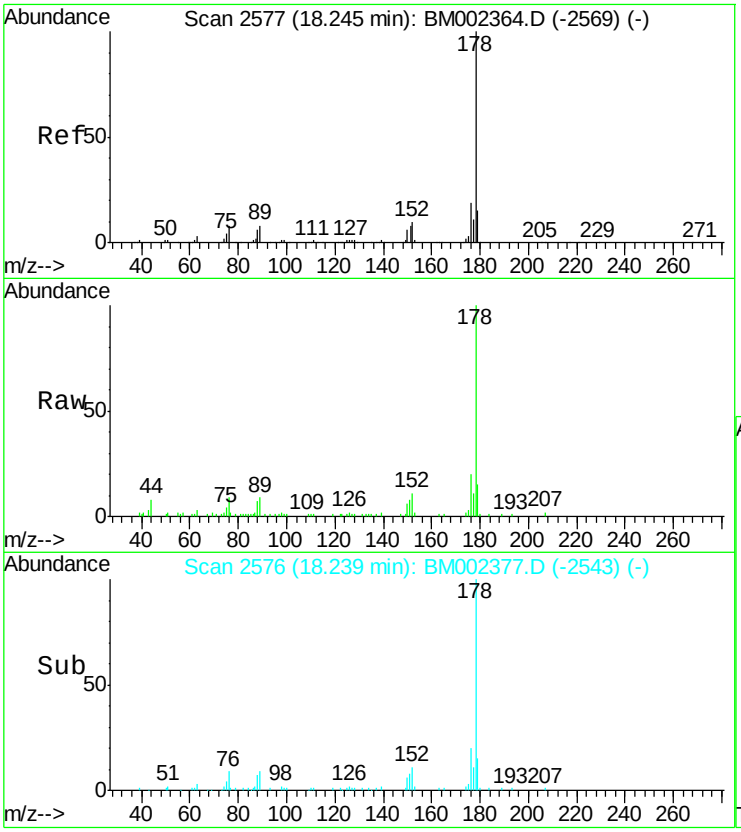
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM081215\
Data File : BM002377.D
Acq On : 13 Aug 2015 01:00
Operator : UM/IZ
Sample : G3163-22
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 13 02:16:11 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080715MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Aug 13 00:45:03 2015
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
D9D07

**Manual Integrations APPROVED**
MMDadoda
8/13/2015 10:58:28 AM

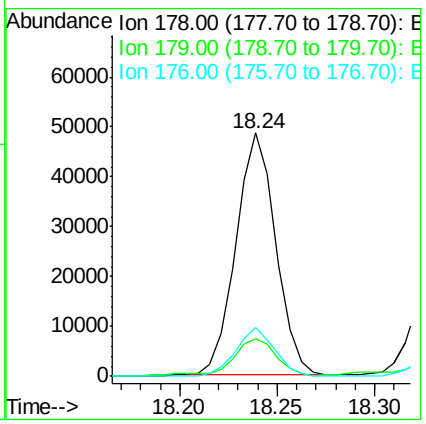





#13
Phenanthrene
Concen: 1.63 ng/ul
RT: 18.24 min Scan# 2576
Delta R.T. -0.01 min
Lab File: BM002377.D
Acq: 13 Aug 2015 01:00

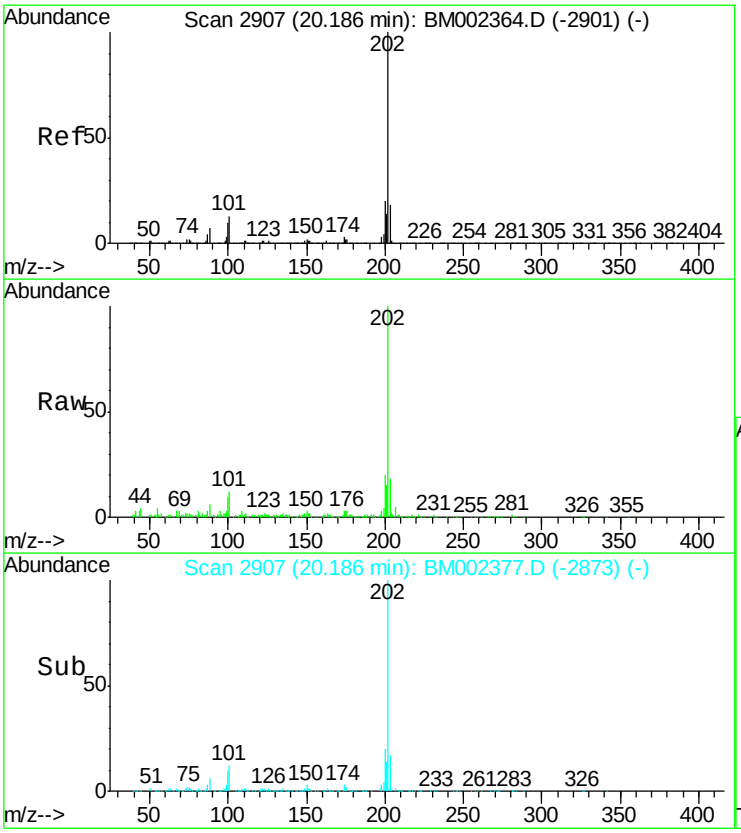
Tgt Ion:178 Resp: 68338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.3 | 12.3 | 18.5 |
| 176 | 19.9 | 15.3 | 22.9 |




**Instrument :**
BNA_M
**ClientSampleId :**
D9D07

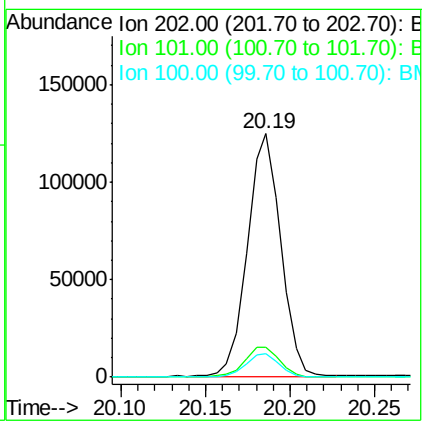
**Manual Integrations APPROVED**
MMDadoda
8/13/2015 10:58:28 AM

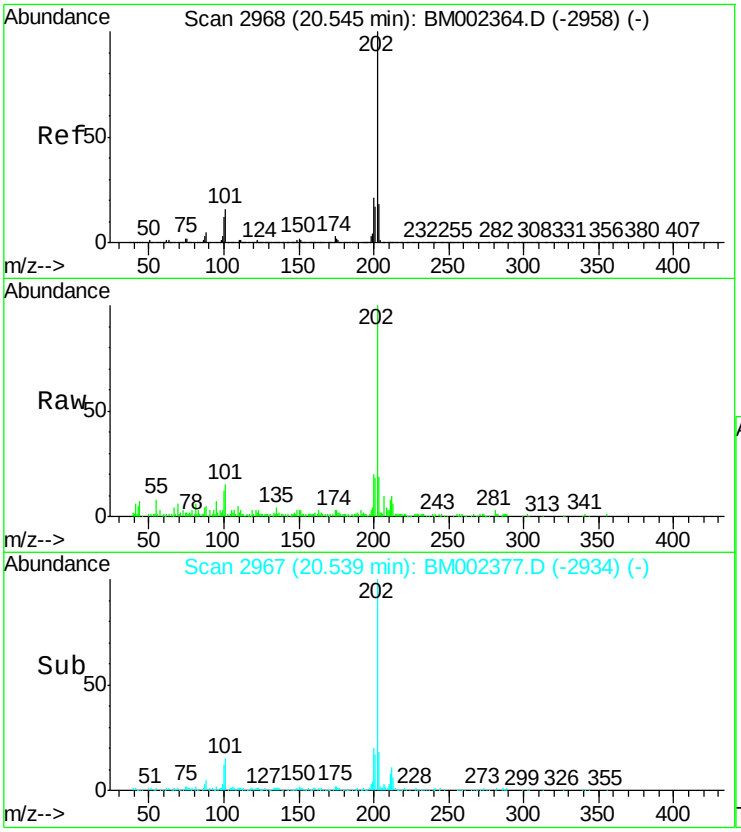



#16
Fluoranthene
Concen: 3.67 ng/ul
RT: 20.19 min Scan# 2907
Delta R.T. 0.00 min
Lab File: BM002377.D
Acq: 13 Aug 2015 01:00

Tgt Ion:202 Resp: 170403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.4 | 10.6 | 15.8 |
| 100 | 9.8 | 8.2 | 12.4 |

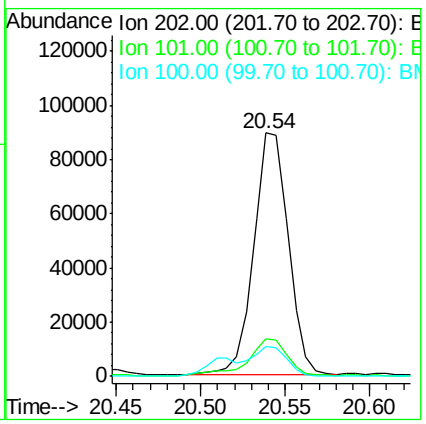





#19
Pyrene
Concen: 3.96 ng/ul
RT: 20.54 min Scan# 2967
Delta R.T. -0.01 min
Lab File: BM002377.D
Acq: 13 Aug 2015 01:00

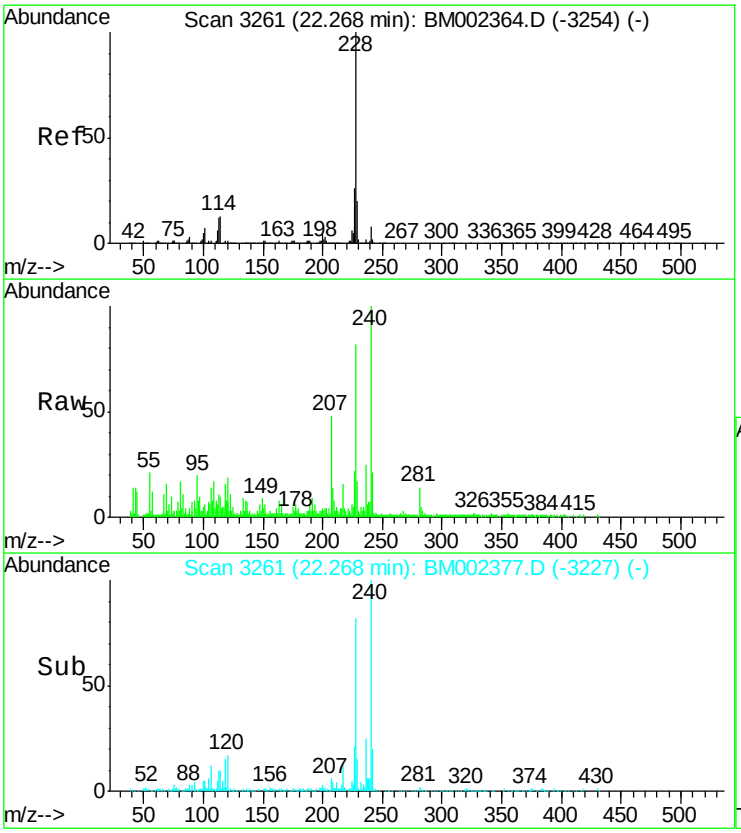
Tgt Ion:202 Resp: 126914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 15.4 | 13.0 | 19.6 |
| 100 | 12.4 | 11.0 | 16.4 |




**Instrument :**
BNA_M
**ClientSampleId :**
D9D07

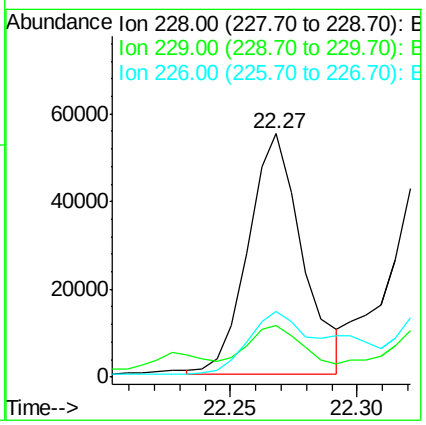
**Manual Integrations APPROVED**
MMDadoda
8/13/2015 10:58:28 AM

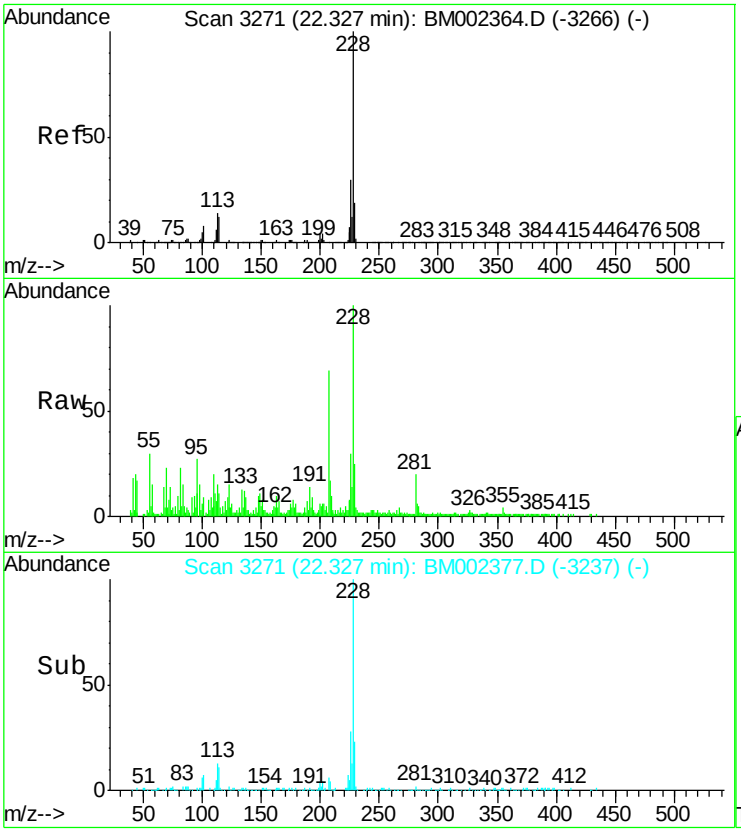



#20
Benzo(a)anthracene
Concen: 2.72 ng/ul
RT: 22.27 min Scan# 3261
Delta R.T. 0.00 min
Lab File: BM002377.D
Acq: 13 Aug 2015 01:00

Tgt Ion:228 Resp: 82379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 21.1 | 15.7 | 23.5 |
| 226 | 26.8 | 21.4 | 32.0 |





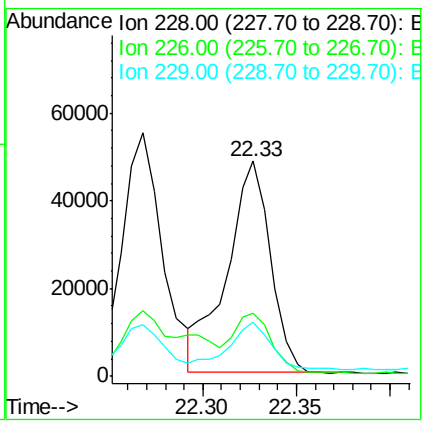

#21
Chrysene
Concen: 2.73 ng/ul m
RT: 22.33 min Scan# 3271
Delta R.T. 0.00 min
Lab File: BM002377.D
Acq: 13 Aug 2015 01:00

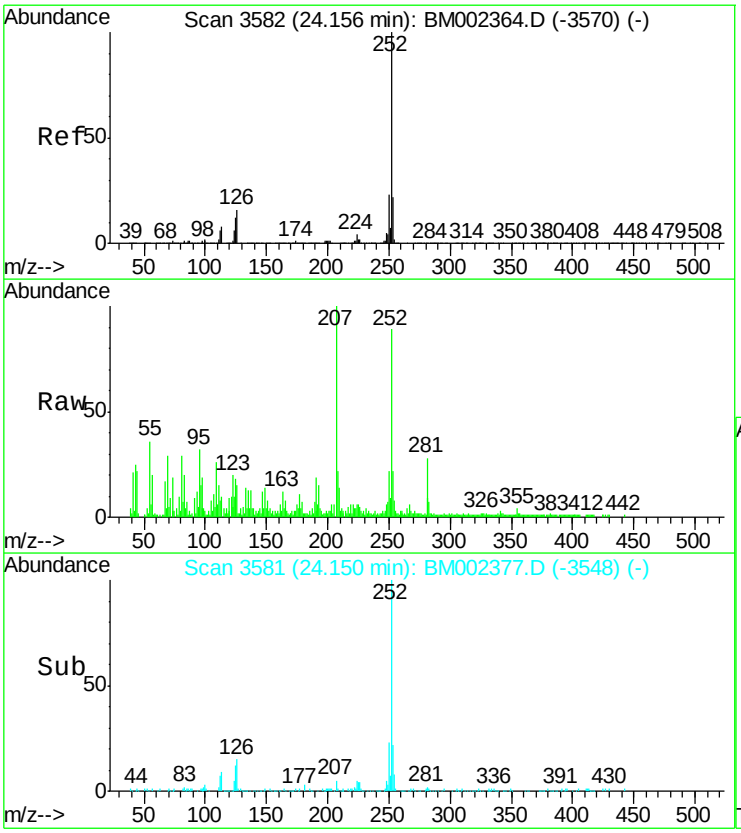
Tgt Ion:228 Resp: 78311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.6 | 23.4 | 35.0 |
| 229 | 25.4 | 15.5 | 23.3# |

**Instrument :**
BNA_M
**ClientSampleId :**
D9D07

**Manual Integrations APPROVED**
MMDadoda
8/13/2015 10:58:28 AM

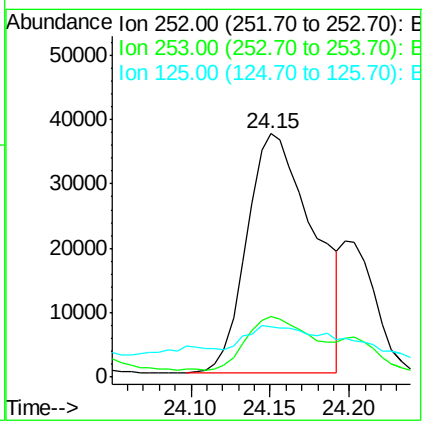


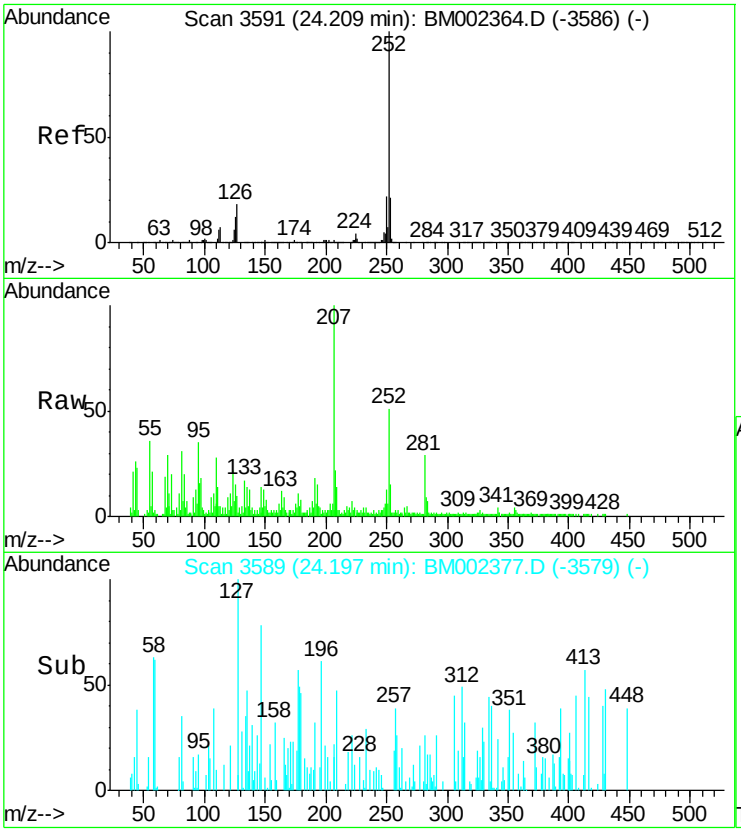




#23
Benzo(b)fluoranthene
Concen: 3.75 ng/ul
RT: 24.15 min Scan# 3581
Delta R.T. -0.01 min
Lab File: BM002377.D
Acq: 13 Aug 2015 01:00

Tgt Ion:252 Resp: 109466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.7 | 17.9 | 26.9 |
| 125 | 20.5 | 10.3 | 15.5# |





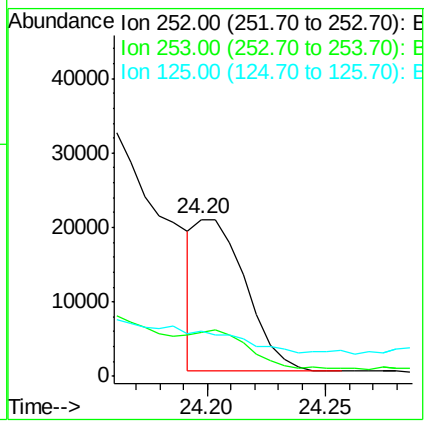

#24
Benzo(k)fluoranthene
Concen: 1.07 ng/ul m
RT: 24.20 min Scan# 3589
Delta R.T. -0.01 min
Lab File: BM002377.D
Acq: 13 Aug 2015 01:00

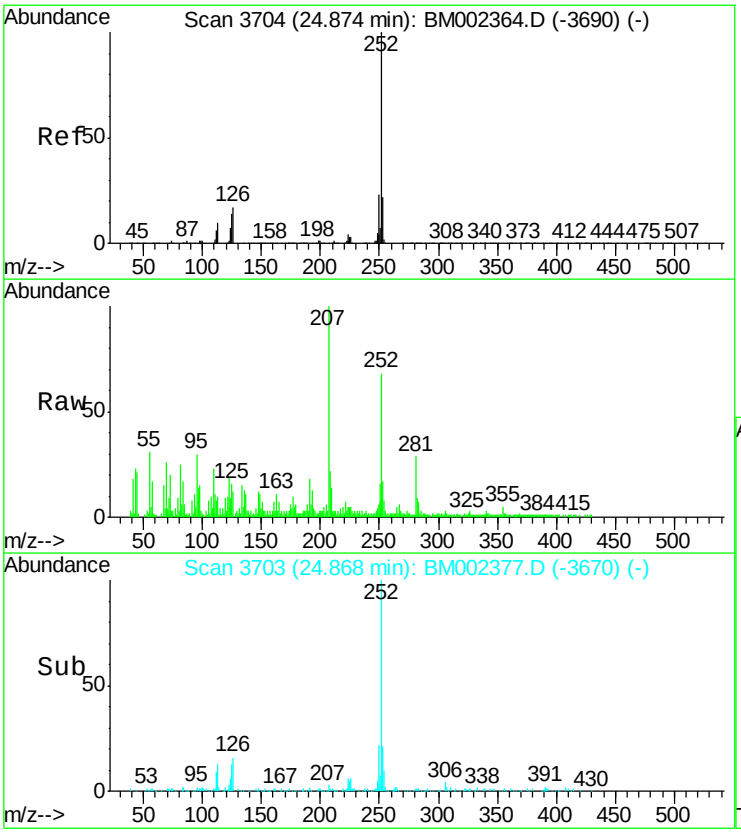
Tgt Ion:252 Resp: 29843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.3 | 17.3 | 25.9# |
| 125 | 28.8 | 10.2 | 15.4# |

**Instrument :**
BNA_M
**ClientSampleId :**
D9D07

**Manual Integrations APPROVED**
MMDadoda
8/13/2015 10:58:28 AM

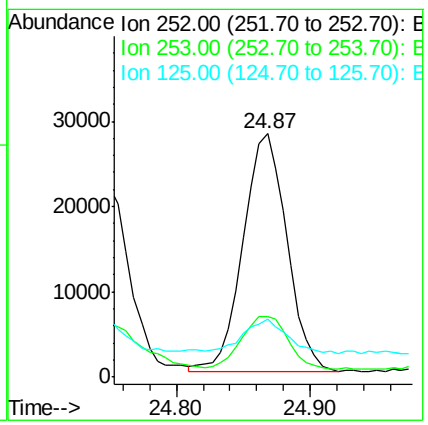


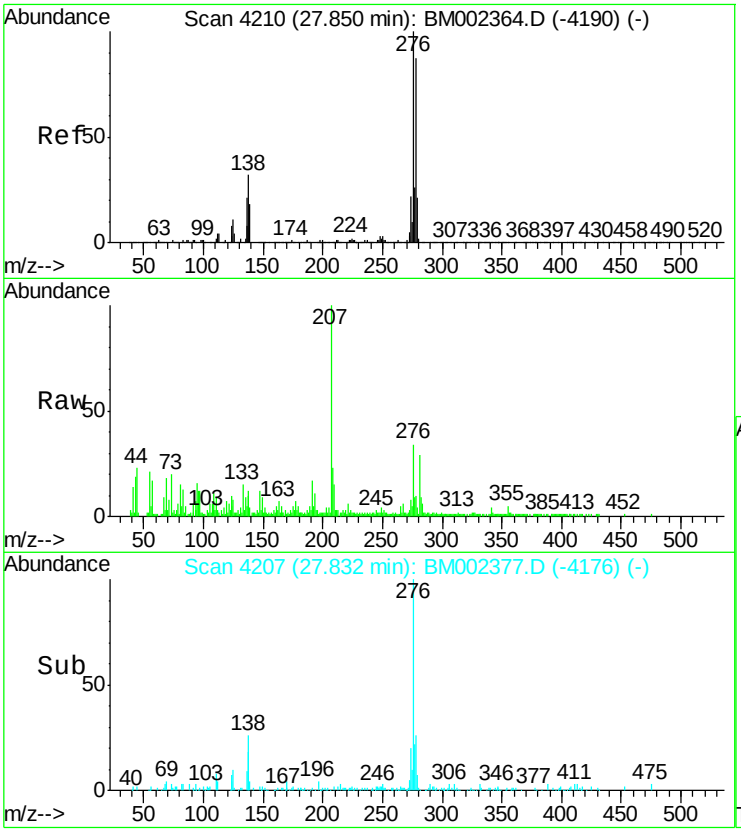




#26
Benzo(a)pyrene
Concen: 2.27 ng/ul
RT: 24.87 min Scan# 3703
Delta R.T. -0.01 min
Lab File: BM002377.D
Acq: 13 Aug 2015 01:00

Tgt Ion:252 Resp: 63294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.1 | 17.3 | 25.9 |
| 125 | 23.6 | 11.0 | 16.6# |

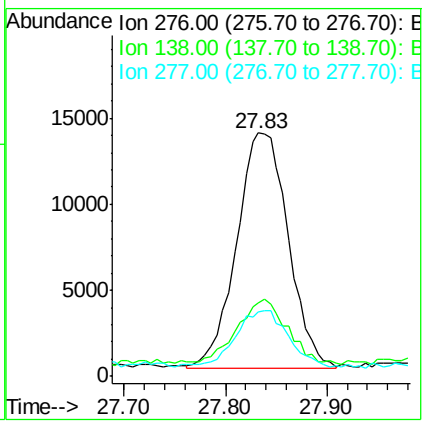





#27
Indeno(1,2,3-cd)pyrene
Concen: 1.50 ng/ul
RT: 27.83 min Scan# 4207
Delta R.T. -0.02 min
Lab File: BM002377.D
Acq: 13 Aug 2015 01:00

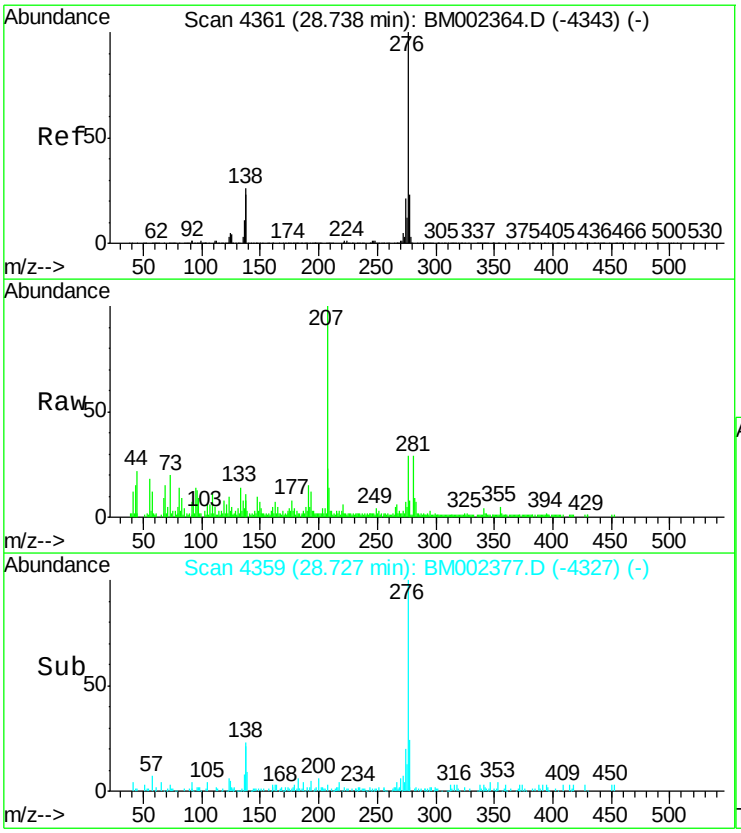
Tgt Ion:276 Resp: 48126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 30.2 | 25.6 | 38.4 |
| 277 | 26.6 | 21.0 | 31.4 |




**Instrument :**
BNA_M
**ClientSampleId :**
D9D07

**Manual Integrations APPROVED**
MMDadoda
8/13/2015 10:58:28 AM




#29
Benzo(g,h,i)perylene
Concen: 1.59 ng/ul
RT: 28.73 min Scan# 4359
Delta R.T. -0.01 min
Lab File: BM002377.D
Acq: 13 Aug 2015 01:00

Tgt Ion:276 Resp: 42826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 28.2 | 20.5 | 30.7 |
| 277 | 28.9 | 19.0 | 28.6# |