Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM080715\
Data File : BM002294.D
Acq On : 09 Aug 2015 02:09
Operator : TP/UM
Sample : G3126-02RE
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
D9D08RE

**Manual Integrations APPROVED**
MMDadoda
8/10/2015 7:15:20 PM

Quant Time: Aug 09 07:03:24 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080715MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Sun Aug 09 06:16:29 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 8.92 | 152 | 374150 | 20.00 | ng/ul | 0.00 |
| 2) Naphthalene-d8 | 11.80 | 136 | 1763706 | 20.00 | ng/ul | 0.00 |
| 6) Acenaphthene-d10 | 15.50 | 164 | 898728 | 20.00 | ng/ul | 0.00 |
| 12) Phenanthrene-d10 | 18.21 | 188 | 1780842 | 20.00 | ng/ul | 0.00 |
| 17) Chrysene-d12 | 22.30 | 240 | 1297878 | 20.00 | ng/ul | 0.00 |
| 22) Perylene-d12 | 25.00 | 264 | 1100301 | 20.00 | ng/ul | 0.01 |
| **System Monitoring Compounds** | | | | | | |
| 7) Acenaphthylene-d8 | 15.20 | 160 | 1006164 | 10.81 | ng/ul | 0.00 |
| 10) Fluorene-d10 | 16.47 | 176 | 654647 | 10.11 | ng/ul | 0.00 |
| 14) Anthracene-d10 | 18.31 | 188 | 909252 | 10.52 | ng/ul | 0.00 |
| 18) Pyrene-d10 | 20.53 | 212 | 809999 | 12.87 | ng/ul | 0.00 |
| 25) Benzo(a)pyrene-d12 | 24.83 | 264 | 596268 | 10.21 | ng/ul | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 3) Naphthalene | 11.85 | 128 | 285599 | 3.08 | ng/ul | 100 |
| 4) 2-Methylnaphthalene | 13.39 | 142 | 104109 | 1.57 | ng/ul | 98 |
| 9) Acenaphthene | 15.56 | 153 | 330786 | 5.09 | ng/ul | 98 |
| 11) Fluorene | 16.53 | 166 | 293598 | 4.01 | ng/ul | 100 |
| 13) Phenanthrene | 18.26 | 178 | 2697484 | 26.32 | ng/ul | 100 |
| 15) Anthracene | 18.34 | 178 | 714993 | 6.75 | ng/ul | 100 |
| 16) Fluoranthene | 20.20 | 202 | 3457356 | 30.46 | ng/ul | 96 |
| 19) Pyrene | 20.56 | 202 | 2548685 | 30.38 | ng/ul | 99 |
| 20) Benzo(a)anthracene | 22.28 | 228 | 1492483 | 18.84 | ng/ul | 98 |
| 21) Chrysene | 22.34 | 228 | 1365962 | 18.19 | ng/ul | 97 |
| 23) Benzo(b)fluoranthene | 24.17 | 252 | 1905935 | 27.87 | ng/ul | 98 |
| 24) Benzo(k)fluoranthene | 24.21 | 252 | 541429m | 8.24 | ng/ul | |
| 26) Benzo(a)pyrene | 24.88 | 252 | 1178974 | 18.02 | ng/ul | 98 |
| 27) Indeno(1,2,3-cd)pyrene | 27.86 | 276 | 870150 | 11.60 | ng/ul | 94 |
| 28) Dibenzo(a,h)anthracene | 27.86 | 278 | 255731 | 4.02 | ng/ul# | 83 |
| 29) Benzo(g,h,i)perylene | 28.75 | 276 | 819316 | 12.95 | ng/ul | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM080715\
Data File : BM002294.D
Acq On : 09 Aug 2015 02:09
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Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 09 07:03:24 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080715MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Sun Aug 09 06:16:29 2015
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
D9D08RE

**Manual Integrations APPROVED**
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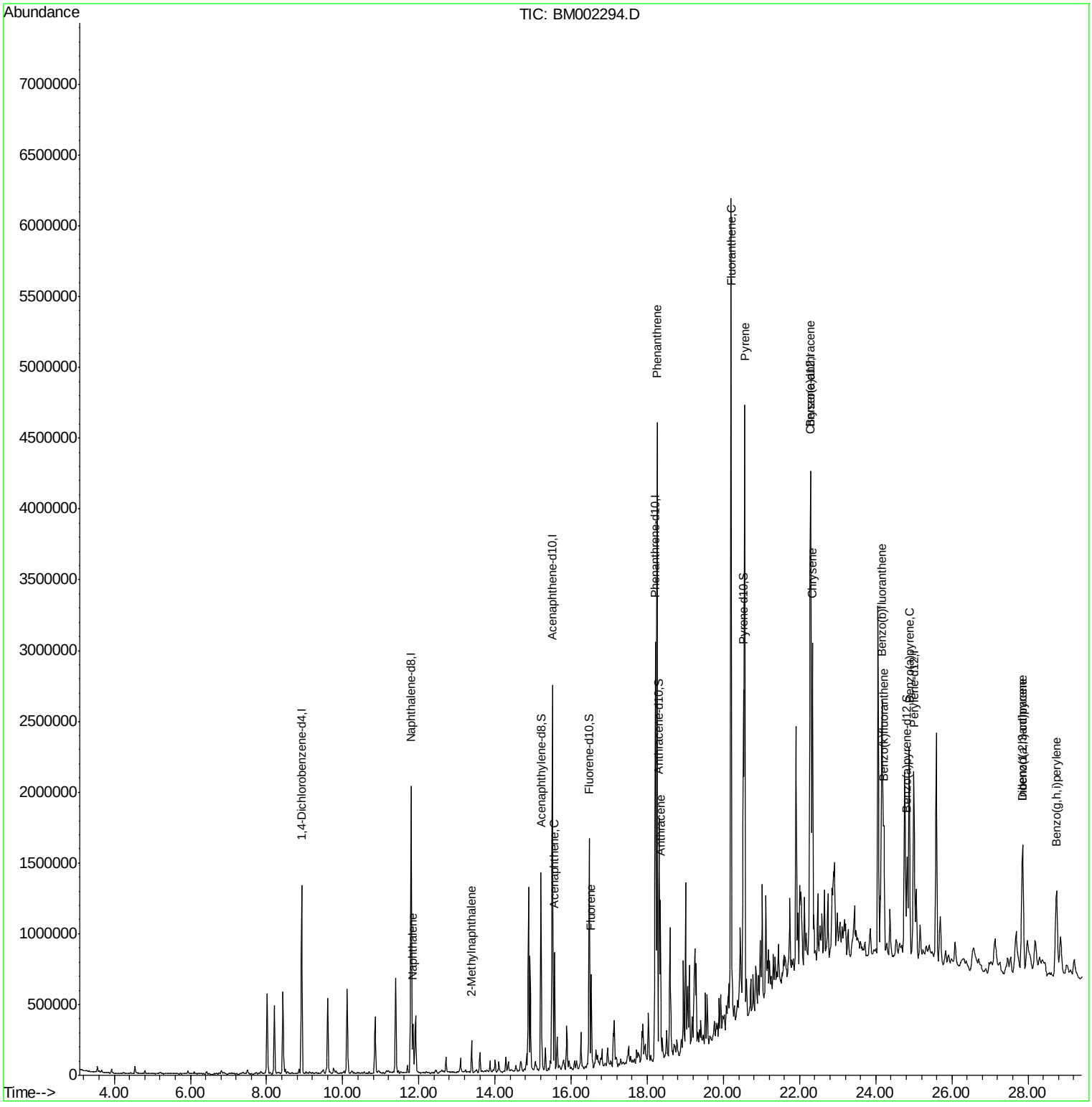
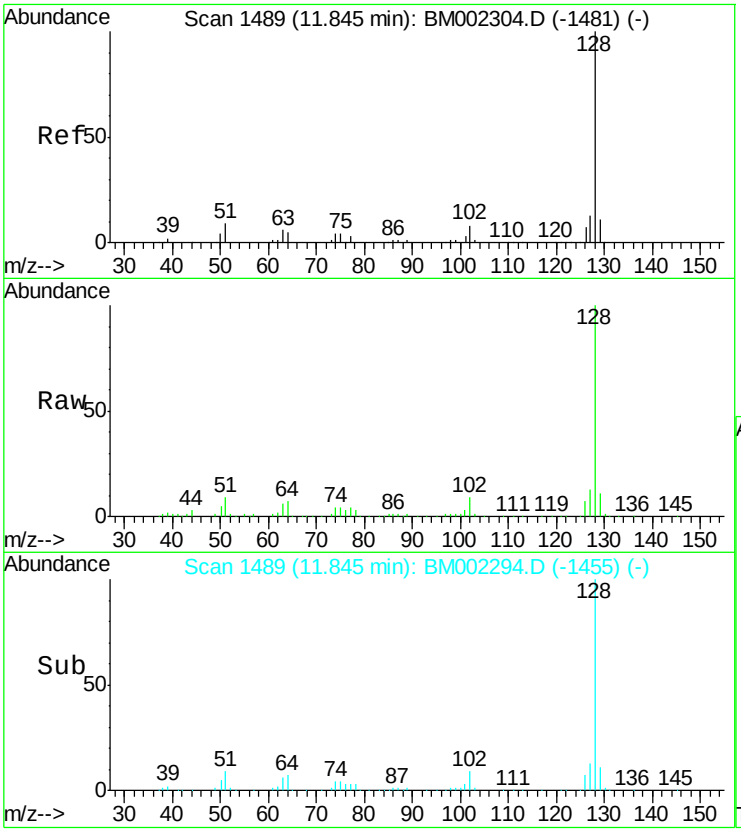
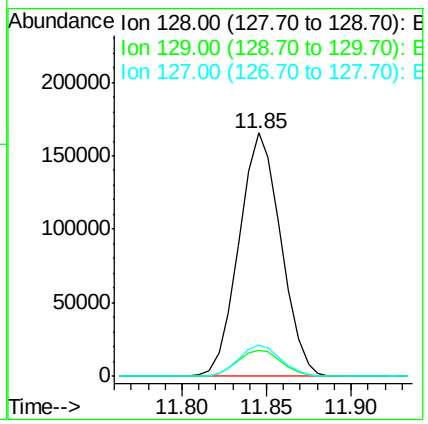





#3
Naphthalene
Concen: 3.08 ng/ul
RT: 11.85 min Scan# 1489
Delta R.T. 0.00 min
Lab File: BM002294.D
Acq: 09 Aug 2015 02:09

Tgt Ion:128 Resp: 285599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.8 | 8.6 | 12.8 |
| 127 | 12.7 | 10.4 | 15.6 |




**Instrument :**
BNA_M
**ClientSampleId :**
D9D08RE

**Manual Integrations APPROVED**
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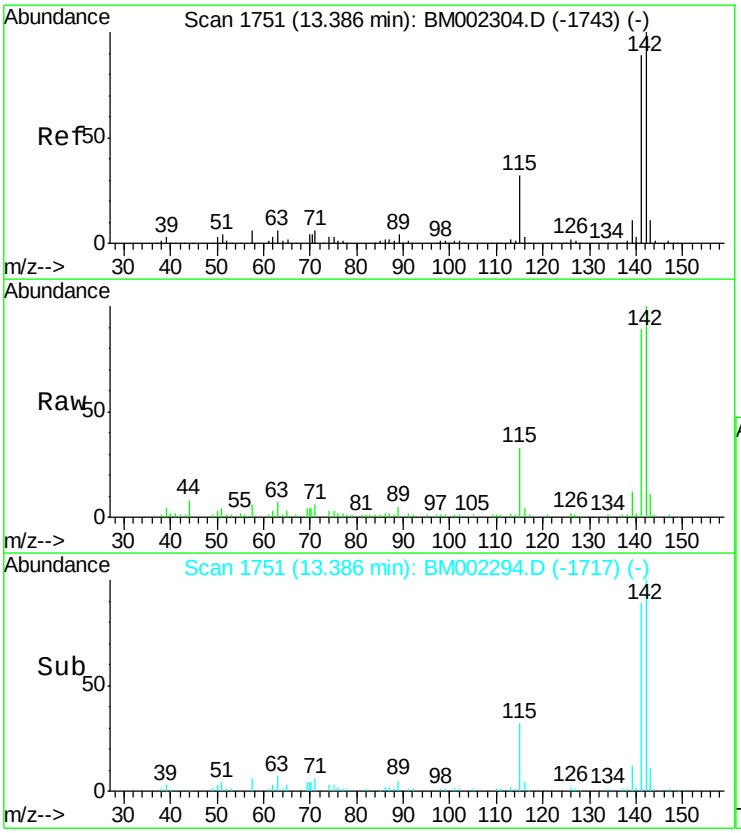
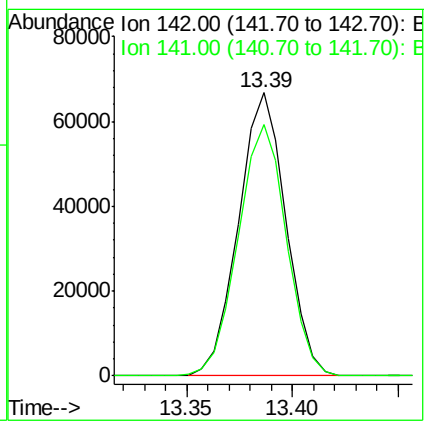
8/10/2015 7:15:20 PM

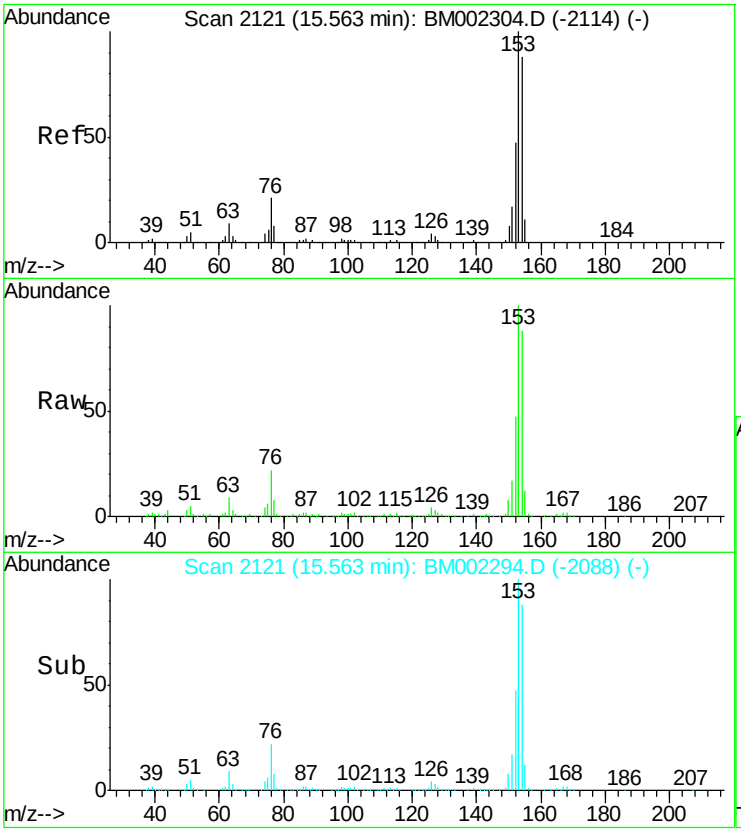



#4
2-Methylnaphthalene
Concen: 1.57 ng/ul
RT: 13.39 min Scan# 1751
Delta R.T. 0.00 min
Lab File: BM002294.D
Acq: 09 Aug 2015 02:09

Tgt Ion:142 Resp: 104109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.7 | 72.5 | 108.7 |

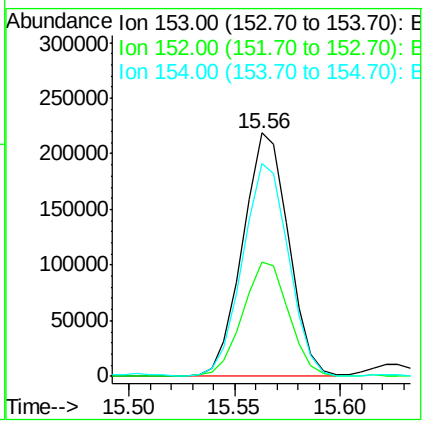





#9
Acenaphthene
Concen: 5.09 ng/ul
RT: 15.56 min Scan# 2121
Delta R.T. -0.01 min
Lab File: BM002294.D
Acq: 09 Aug 2015 02:09

Tgt Ion:153 Resp: 330786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 153 | 100 | | |
| 152 | 47.0 | 36.6 | 55.0 |
| 154 | 87.5 | 71.5 | 107.3 |




**Instrument :**
BNA_M
**ClientSampleId :**
D9D08RE

**Manual Integrations APPROVED**
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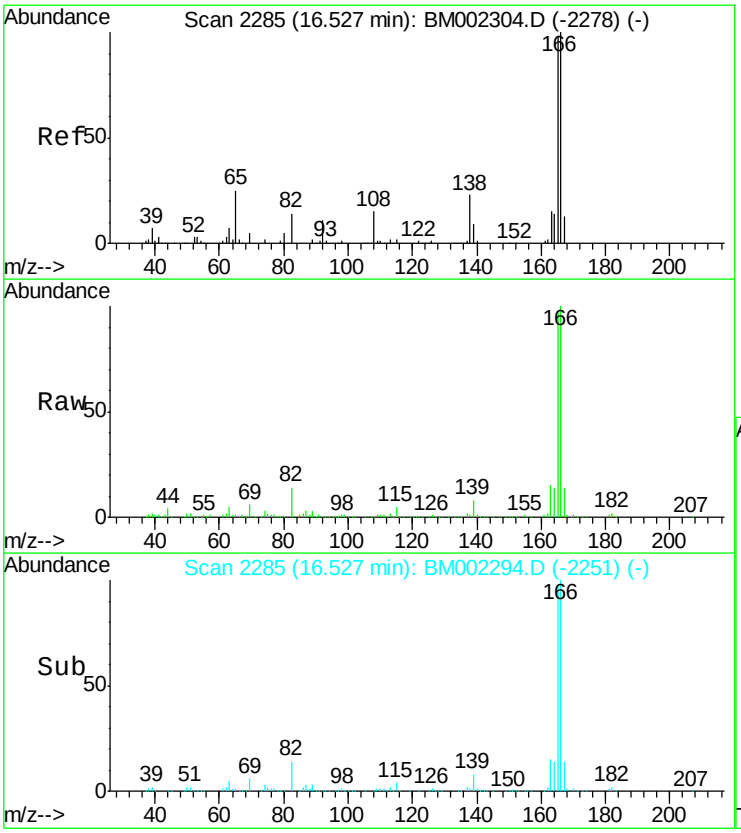
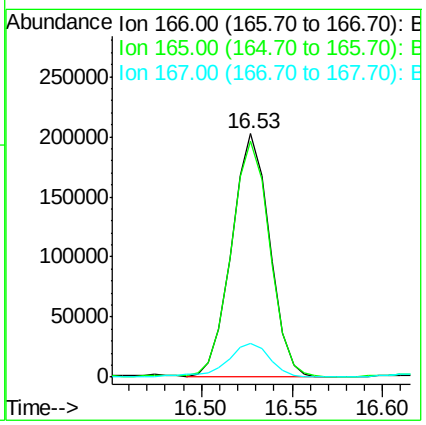
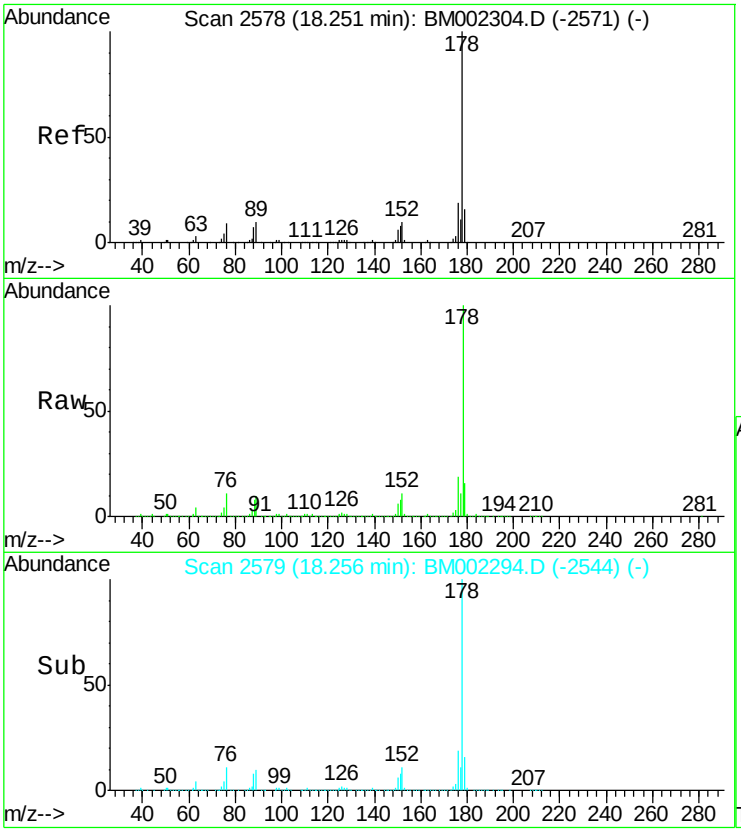



#11
Fluorene
Concen: 4.01 ng/ul
RT: 16.53 min Scan# 2285
Delta R.T. 0.00 min
Lab File: BM002294.D
Acq: 09 Aug 2015 02:09

Tgt Ion:166 Resp: 293598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 96.9 | 77.5 | 116.3 |
| 167 | 13.8 | 10.4 | 15.6 |

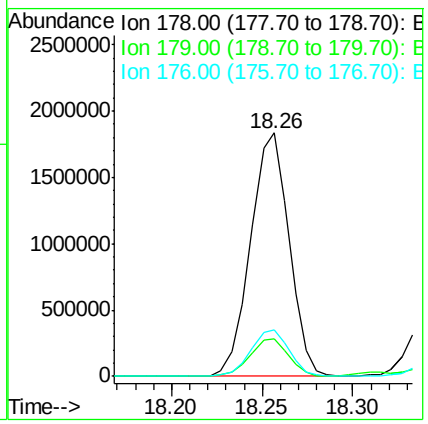





#13
Phenanthrene
Concen: 26.32 ng/ul
RT: 18.26 min Scan# 2579
Delta R.T. 0.01 min
Lab File: BM002294.D
Acq: 09 Aug 2015 02:09

Tgt Ion:178 Resp: 2697484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.5 | 12.3 | 18.5 |
| 176 | 19.1 | 15.3 | 22.9 |




**Instrument :**
BNA_M
**ClientSampleId :**
D9D08RE

**Manual Integrations APPROVED**
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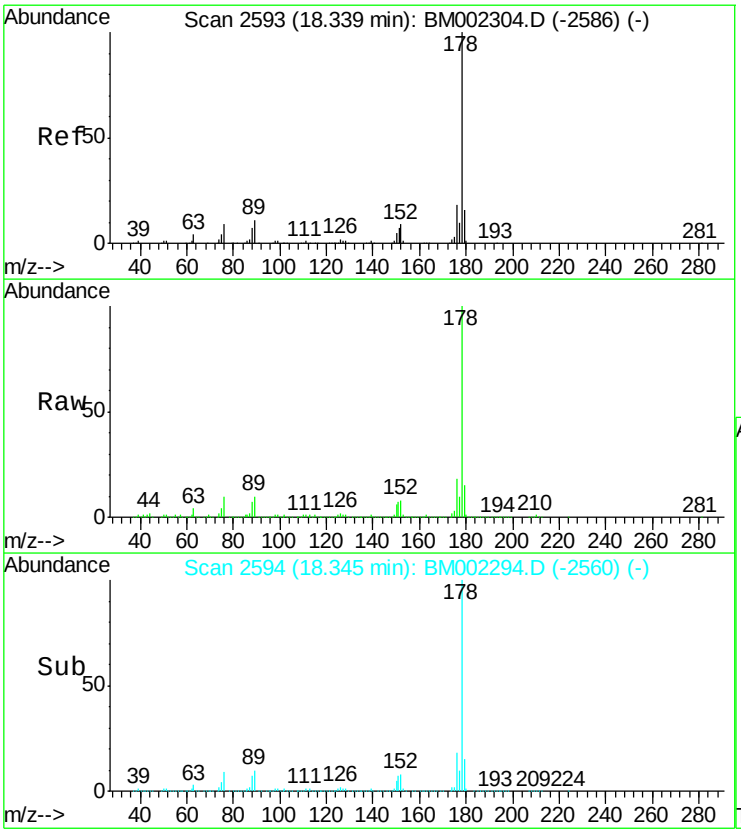
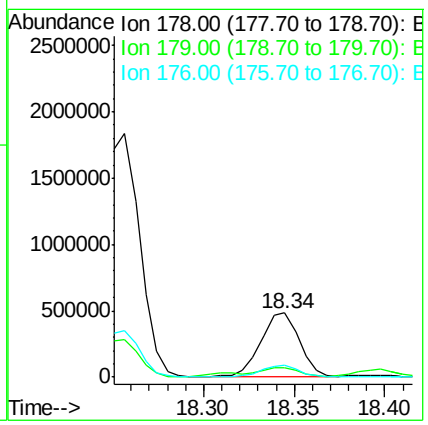
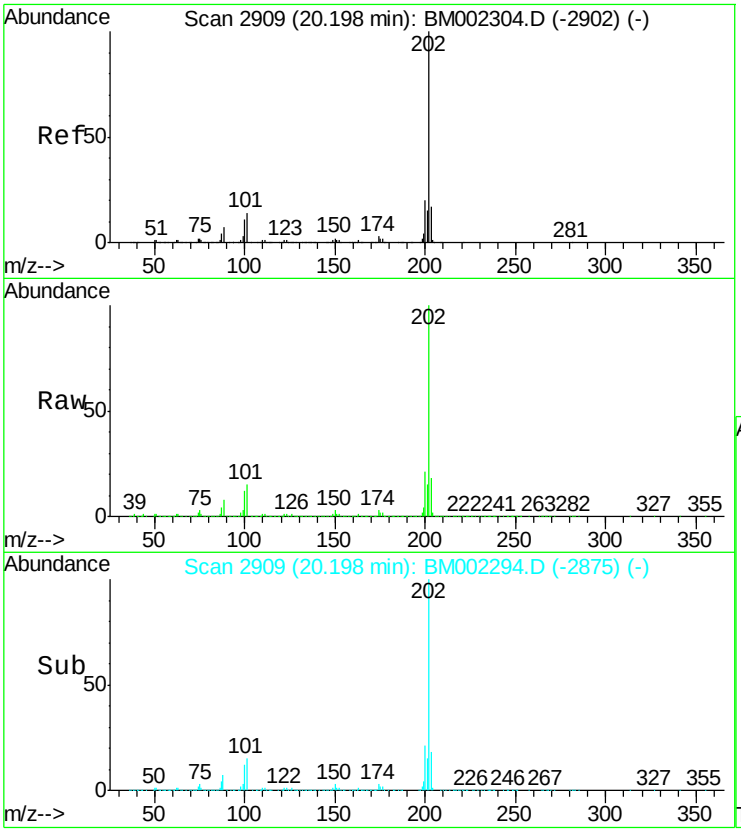



#15
Anthracene
Concen: 6.75 ng/ul
RT: 18.34 min Scan# 2594
Delta R.T. 0.00 min
Lab File: BM002294.D
Acq: 09 Aug 2015 02:09

Tgt Ion:178 Resp: 714993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.1 | 12.3 | 18.5 |
| 176 | 18.0 | 14.5 | 21.7 |

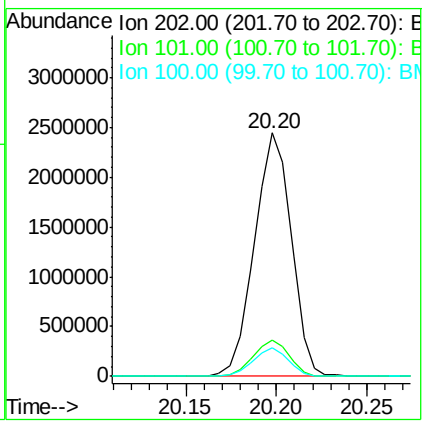





#16
Fluoranthene
Concen: 30.46 ng/ul
RT: 20.20 min Scan# 2909
Delta R.T. 0.00 min
Lab File: BM002294.D
Acq: 09 Aug 2015 02:09

Tgt Ion:202 Resp: 3457356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 14.8 | 10.6 | 15.8 |
| 100 | 11.6 | 8.2 | 12.4 |




**Instrument :**
BNA_M
**ClientSampleId :**
D9D08RE

**Manual Integrations APPROVED**
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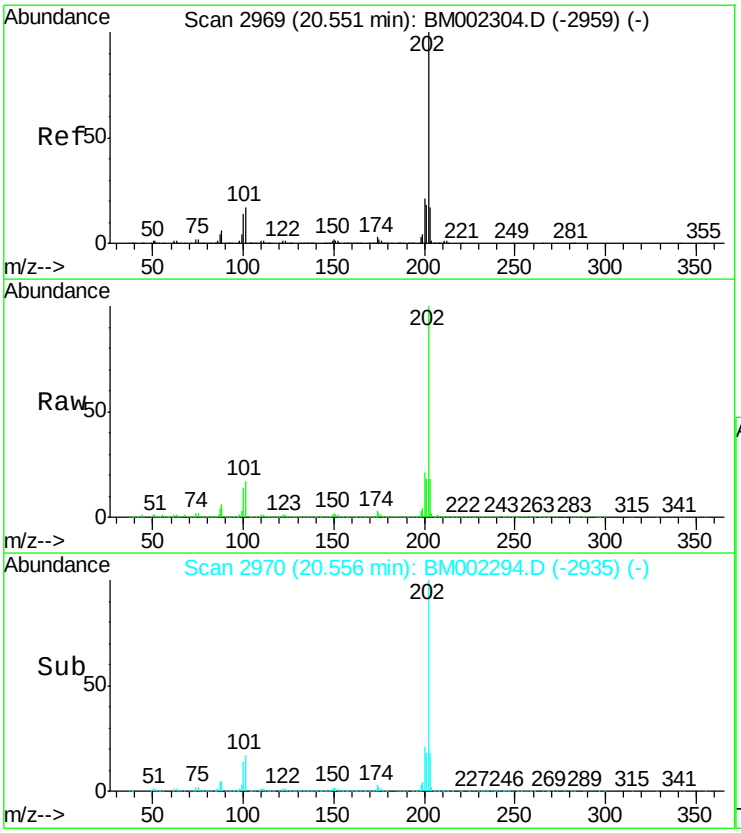
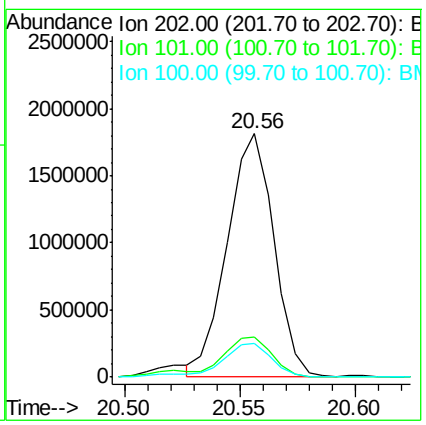
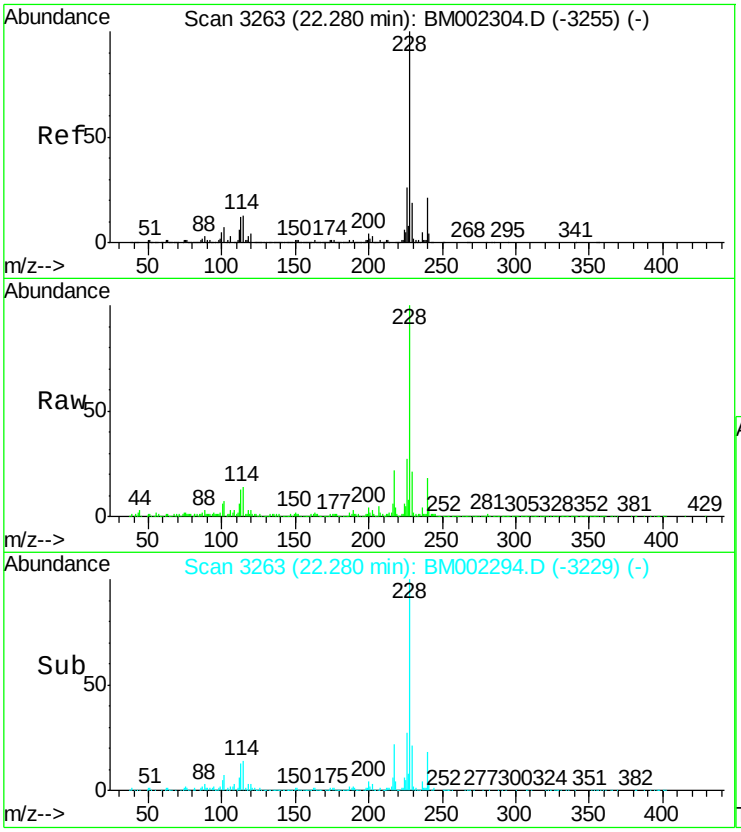



#19
Pyrene
Concen: 30.38 ng/ul
RT: 20.56 min Scan# 2970
Delta R.T. 0.01 min
Lab File: BM002294.D
Acq: 09 Aug 2015 02:09

Tgt Ion:202 Resp: 2548685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 16.7 | 13.0 | 19.6 |
| 100 | 13.8 | 11.0 | 16.4 |

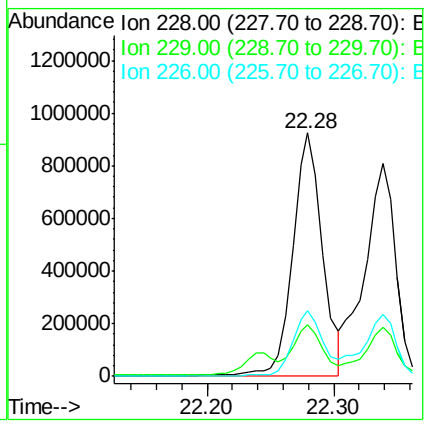





#20
Benzo(a)anthracene
Concen: 18.84 ng/ul
RT: 22.28 min Scan# 3263
Delta R.T. 0.00 min
Lab File: BM002294.D
Acq: 09 Aug 2015 02:09

Tgt Ion:228 Resp: 1492483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 21.3 | 15.7 | 23.5 |
| 226 | 27.0 | 21.4 | 32.0 |




**Instrument :**
BNA_M
**ClientSampleId :**
D9D08RE

**Manual Integrations APPROVED**
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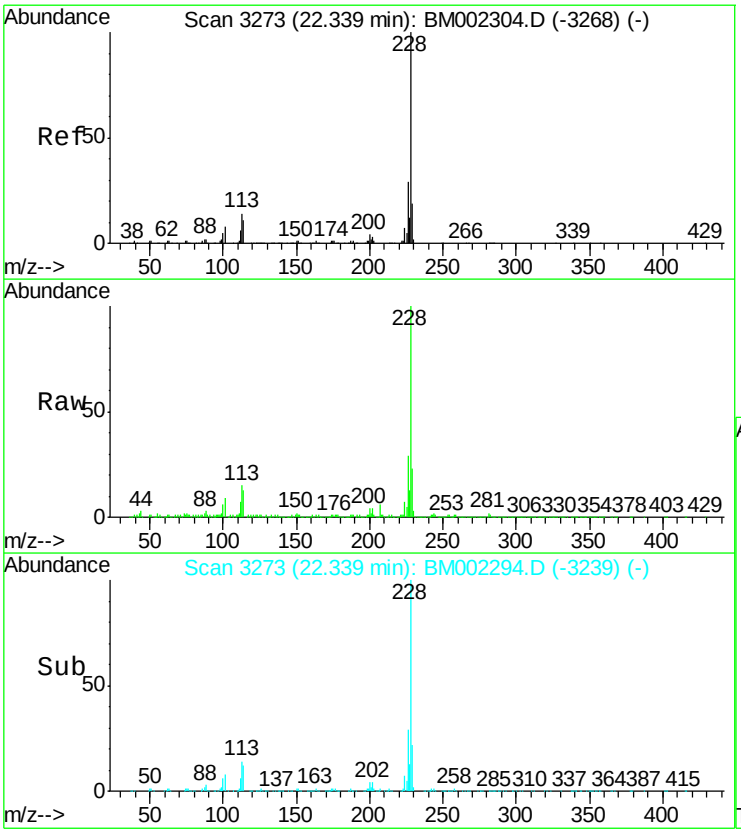
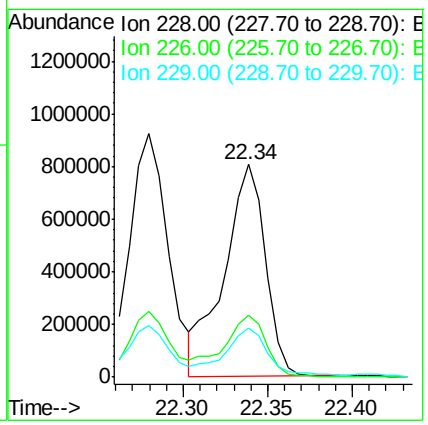
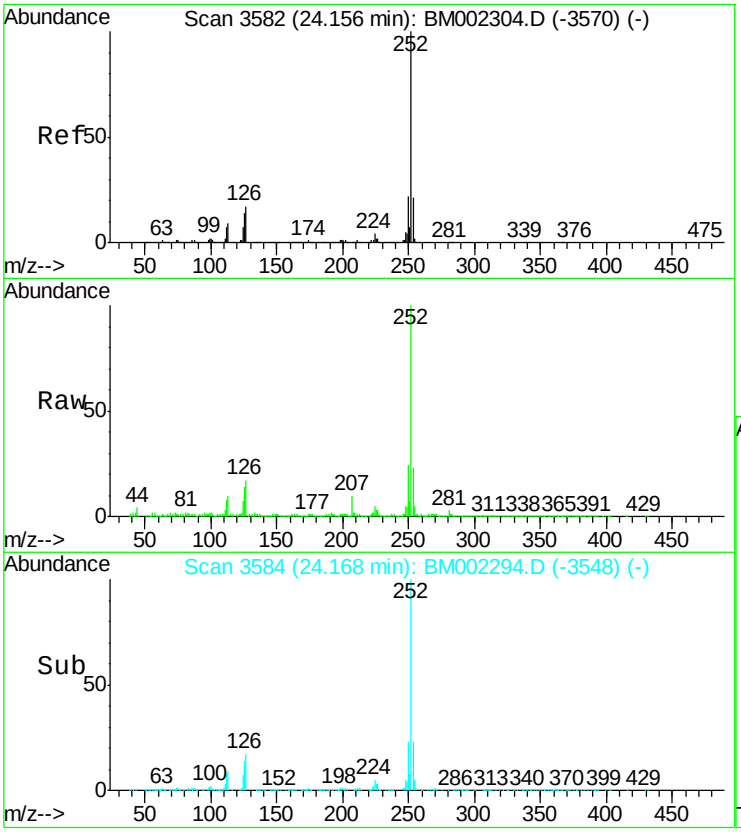



#21
Chrysene
Concen: 18.19 ng/ul
RT: 22.34 min Scan# 3273
Delta R.T. 0.00 min
Lab File: BM002294.D
Acq: 09 Aug 2015 02:09

Tgt Ion:228 Resp: 1365962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.2 | 23.4 | 35.0 |
| 229 | 23.0 | 15.5 | 23.3 |

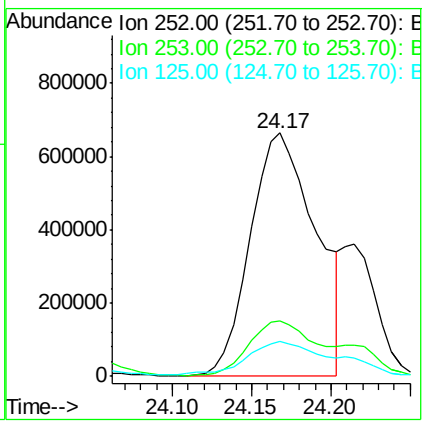





#23
Benzo(b)fluoranthene
Concen: 27.87 ng/ul
RT: 24.17 min Scan# 3584
Delta R.T. 0.01 min
Lab File: BM002294.D
Acq: 09 Aug 2015 02:09

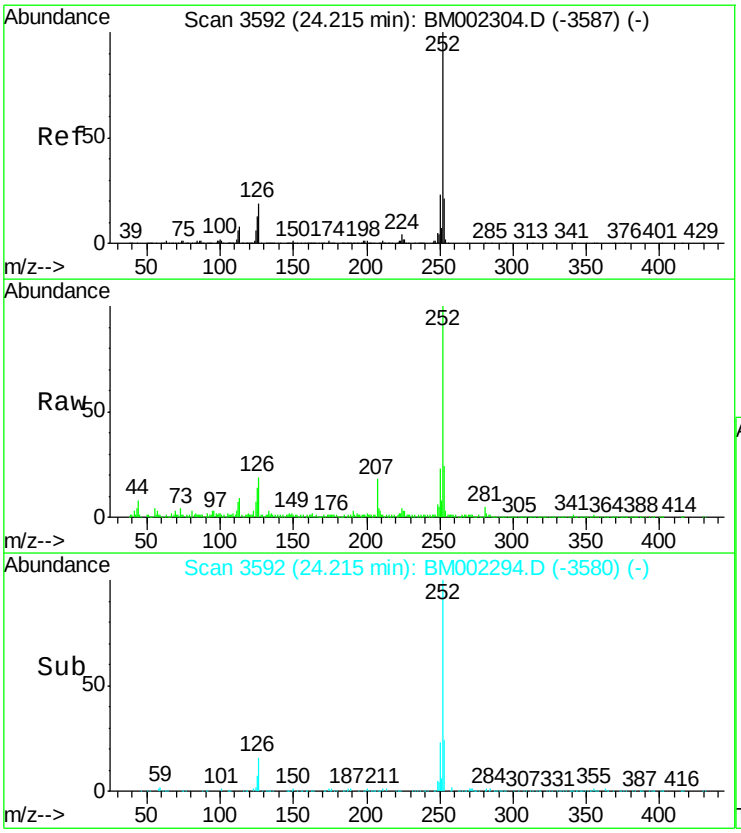
Tgt Ion:252 Resp: 1905935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.0 | 17.9 | 26.9 |
| 125 | 14.5 | 10.3 | 15.5 |




**Instrument :**
BNA_M
**ClientSampleId :**
D9D08RE

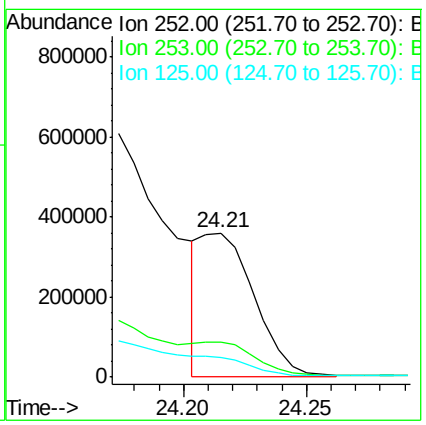
**Manual Integrations APPROVED**
MMDadoda
8/10/2015 7:15:20 PM

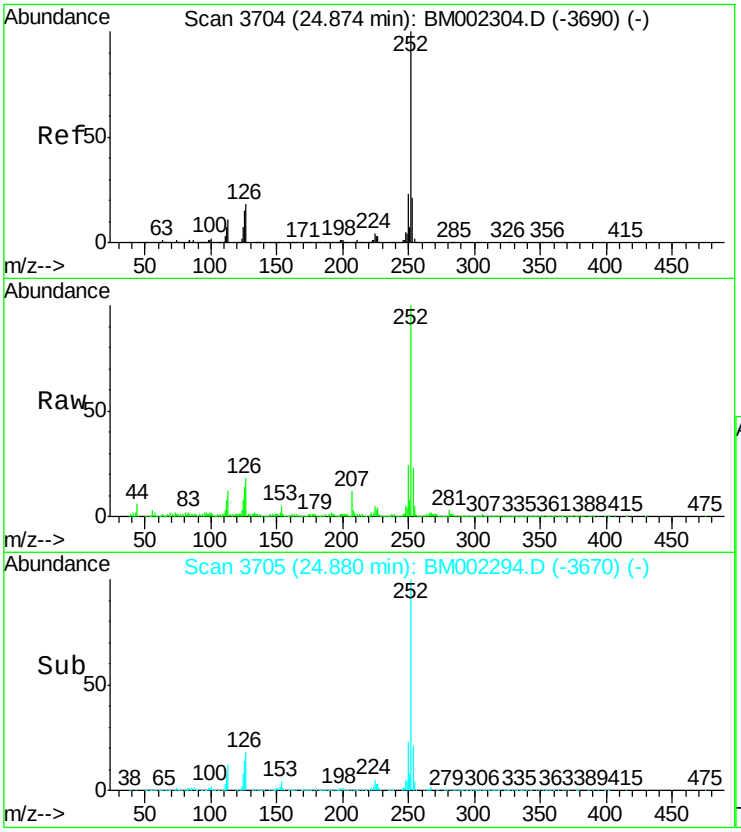



#24
Benzo(k)fluoranthene
Concen: 8.24 ng/ul m
RT: 24.21 min Scan# 3592
Delta R.T. 0.00 min
Lab File: BM002294.D
Acq: 09 Aug 2015 02:09

Tgt Ion:252 Resp: 541429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.1 | 17.3 | 25.9 |
| 125 | 13.8 | 10.2 | 15.4 |

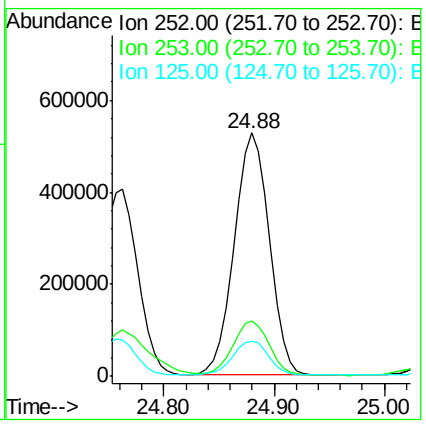





#26
Benzo(a)pyrene
Concen: 18.02 ng/ul
RT: 24.88 min Scan# 3705
Delta R.T. 0.01 min
Lab File: BM002294.D
Acq: 09 Aug 2015 02:09

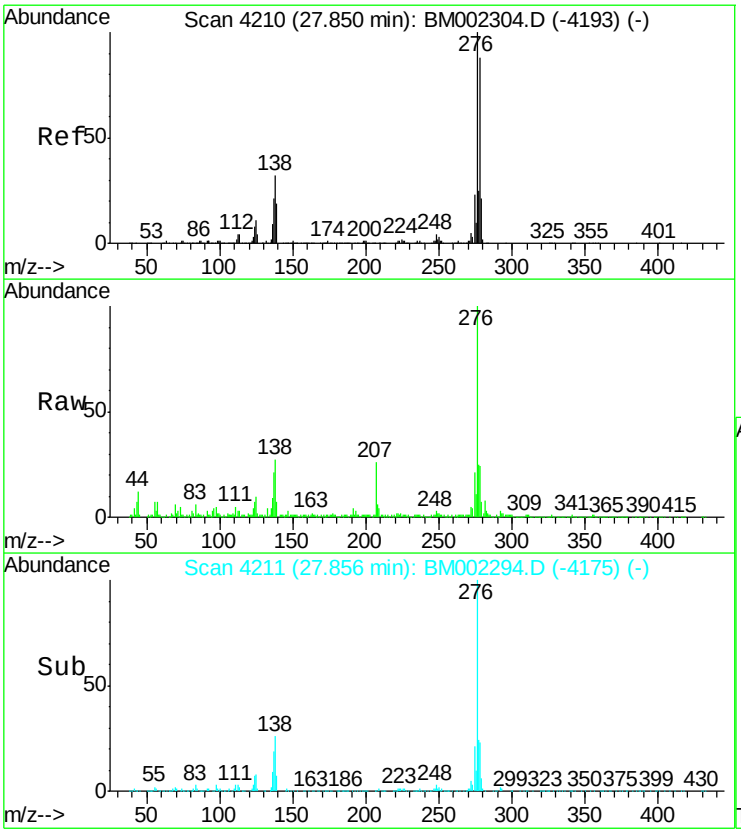
Tgt Ion:252 Resp: 1178974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.6 | 17.3 | 25.9 |
| 125 | 14.5 | 11.0 | 16.6 |




**Instrument :**
BNA_M
**ClientSampleId :**
D9D08RE

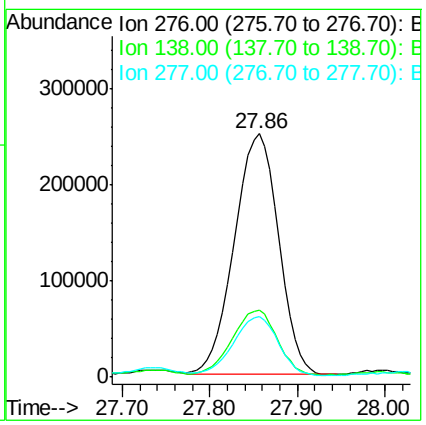
**Manual Integrations APPROVED**
MMDadoda
8/10/2015 7:15:20 PM

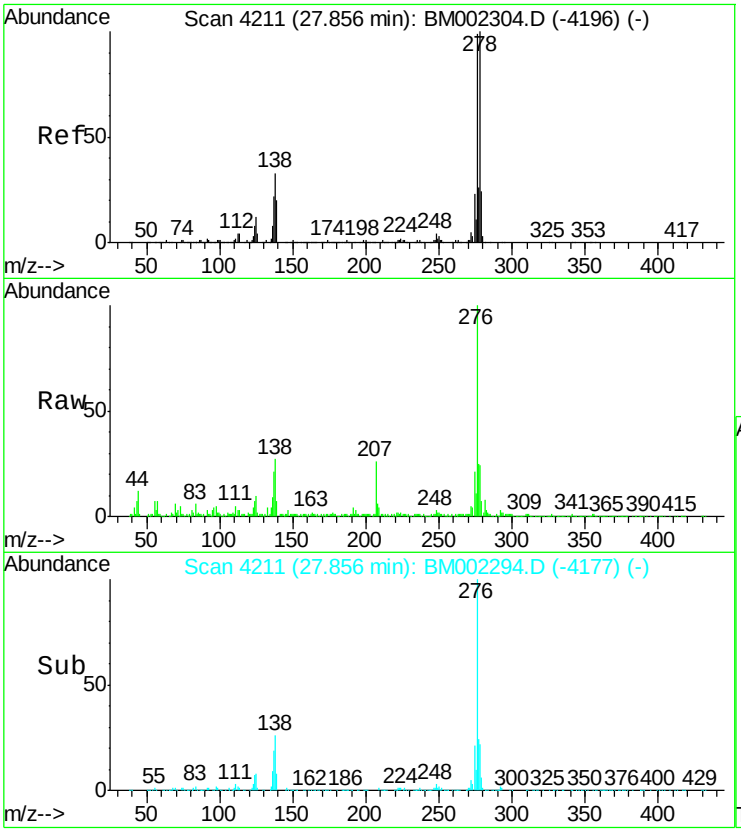



#27
Indeno(1,2,3-cd)pyrene
Concen: 11.60 ng/ul
RT: 27.86 min Scan# 4211
Delta R.T. 0.01 min
Lab File: BM002294.D
Acq: 09 Aug 2015 02:09

Tgt Ion:276 Resp: 870150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.3 | 25.6 | 38.4 |
| 277 | 25.0 | 21.0 | 31.4 |

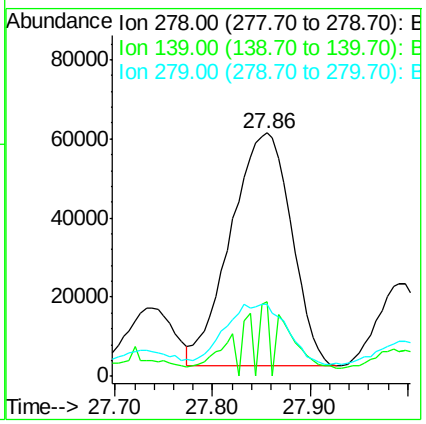





#28
Dibenzo(a,h)anthracene
Concen: 4.02 ng/ul
RT: 27.86 min Scan# 4211
Delta R.T. 0.00 min
Lab File: BM002294.D
Acq: 09 Aug 2015 02:09

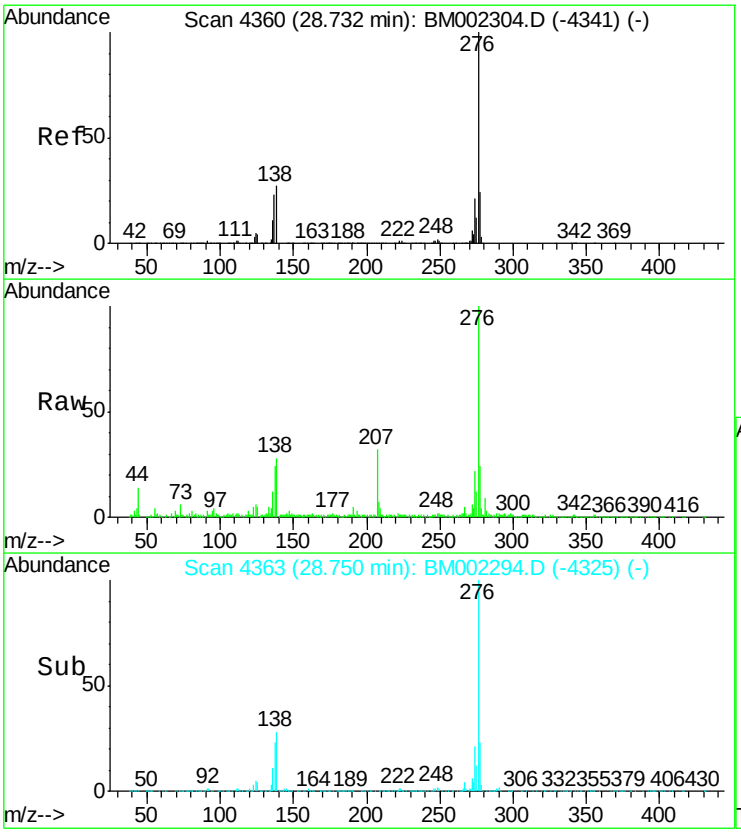
Tgt Ion:278 Resp: 255731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 30.8 | 16.4 | 24.6# |
| 279 | 29.4 | 18.8 | 28.2# |




**Instrument :**
BNA_M
**ClientSampleId :**
D9D08RE

**Manual Integrations APPROVED**
MMDadoda
8/10/2015 7:15:20 PM




#29
Benzo(g,h,i)perylene
Concen: 12.95 ng/ul
RT: 28.75 min Scan# 4363
Delta R.T. 0.02 min
Lab File: BM002294.D
Acq: 09 Aug 2015 02:09

Tgt Ion:276 Resp: 819316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 28.3 | 20.5 | 30.7 |
| 277 | 24.2 | 19.0 | 28.6 |