Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121117\
Data File : BM013328.D
Acq On : 12 Dec 2017 05:30
Operator : SJ/JU
Sample : I6758-13 10X
Misc :
ALS Vial : 31 Sample Multiplier: 1

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

Quant Time: Dec 12 06:19:48 2017
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 12 02:07:09 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.69 | 152 | 262508 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.47 | 136 | 1126135 | 20.00 | ng/ul | 0.00 |
| 35) Acenaphthene-d10 | 14.33 | 164 | 666778 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.08 | 188 | 1435082 | 20.00 | ng/ul | 0.00 |
| 75) Chrysene-d12 | 21.27 | 240 | 1469964 | 20.00 | ng/ul | 0.00 |
| 83) Perylene-d12 | 23.49 | 264 | 1230171 | 20.00 | ng/ul | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 3) 1,4-Dioxane-d8 | 3.23 | 96 | 1903 | 0.36 | ng/uL | 0.00 |
| 5) Phenol-d5 | 6.86 | 99 | 42945 | 1.89 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d | 7.03 | 67 | 27512 | 2.12 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4 | 7.22 | 132 | 36856 | 2.08 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8 | 8.39 | 113 | 36516 | 1.88 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5 | 8.85 | 128 | 21516 | 2.41 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4 | 9.56 | 143 | 20770 | 2.17 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3 | 10.10 | 165 | 40440 | 2.05 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4 | 10.62 | 131 | 50563 | 2.79 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6 | 13.74 | 166 | 141112 | 2.38 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8 | 14.02 | 160 | 161365 | 2.20 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4 | 14.55 | 143 | 15015 | 1.46 | ng/ul | 0.01 |
| 57) Fluorene-d10 | 15.33 | 176 | 112343 | 2.20 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.46 | 200 | 11858 | 1.31 | ng/ul | 0.01 |
| 70) Anthracene-d10 | 17.18 | 188 | 177273 | 2.47 | ng/ul | 0.00 |
| 76) Pyrene-d10 | 19.47 | 212 | 188114 | 2.57 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12 | 23.35 | 264 | 135211 | 2.16 | ng/ul | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 17) Hexachloroethane | 8.79 | 117 | 15573 | 2.055 | ng/ul# | 1 |
| 30) 4-Chloroaniline | 10.54 | 127 | 3591898 | 204.950 | ng/ul# | 19 |
| 34) 2-Methylnaphthalene | 12.14 | 142 | 5208486 | 119.588 | ng/ul | 94 |
| 40) 1,1'-Biphenyl | 13.16 | 154 | 1298580 | 23.044 | ng/ul | 97 |
| 47) Acenaphthylene | 14.05 | 152 | 492407 | 7.267 | ng/ul# | 95 |
| 49) Acenaphthene | 14.40 | 153 | 4666420 | 101.095 | ng/ul | 99 |
| 53) Dibenzofuran | 14.73 | 168 | 4804706 | 70.509 | ng/ul | 100 |
| 58) Fluorene | 15.39 | 166 | 5437087 | 96.449 | ng/ul | 99 |
| 60) 4-Nitroaniline | 15.39 | 138 | 61031 | 5.000 | ng/ul# | 13 |
| 64) N-Nitrosodiphenylamine | 15.59 | 169 | 42802 | 1.012 | ng/ul# | 1 |
| 69) Phenanthrene | 17.22 | 178 | 3066477 | 37.612 | ng/ul | 98 |
| 71) Anthracene | 17.22 | 178 | 3066477 | 36.796 | ng/ul | 98 |
| 72) Carbazole | 17.49 | 167 | 1079507 | 15.060 | ng/ul | 100 |
| 74) Fluoranthene | 19.15 | 202 | 11548851 | 115.590 | ng/ul# | 90 |
| 77) Pyrene | 19.51 | 202 | 7133224 | 79.875 | ng/ul# | 91 |
| 80) Benzo(a)anthracene | 21.26 | 228 | 2092134 | 22.432 | ng/ul | 97 |
| 82) Chrysene | 21.30 | 228 | 1741302 | 20.124 | ng/ul | 98 |
| 85) Benzo(b)fluoranthene | 22.83 | 252 | 1350025 | 16.280 | ng/ul# | 98 |
| 86) Benzo(k)fluoranthene | 22.83 | 252 | 1350025 | 17.299 | ng/ul# | 97 |
| 88) Benzo(a)pyrene | 23.40 | 252 | 793871 | 10.657 | ng/ul# | 97 |
| 89) Indeno(1,2,3-cd)pyrene | 25.72 | 276 | 342872 | 4.639 | ng/ul | 96 |
| 90) Dibenzo(a,h)anthracene | 25.73 | 278 | 102314 | 1.626 | ng/ul# | 80 |
| 91) Benzo(g,h,i)perylene | 26.40 | 276 | 255378 | 4.380 | ng/ul | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121117\
Data File : BM013328.D
Acq On : 12 Dec 2017 05:30
Operator : SJ/JU
Sample : I6758-13 10X
Misc :
ALS Vial : 31 Sample Multiplier: 1

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

Quant Time: Dec 12 06:19:48 2017
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 12 02:07:09 2017
Response via : Initial Calibration

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

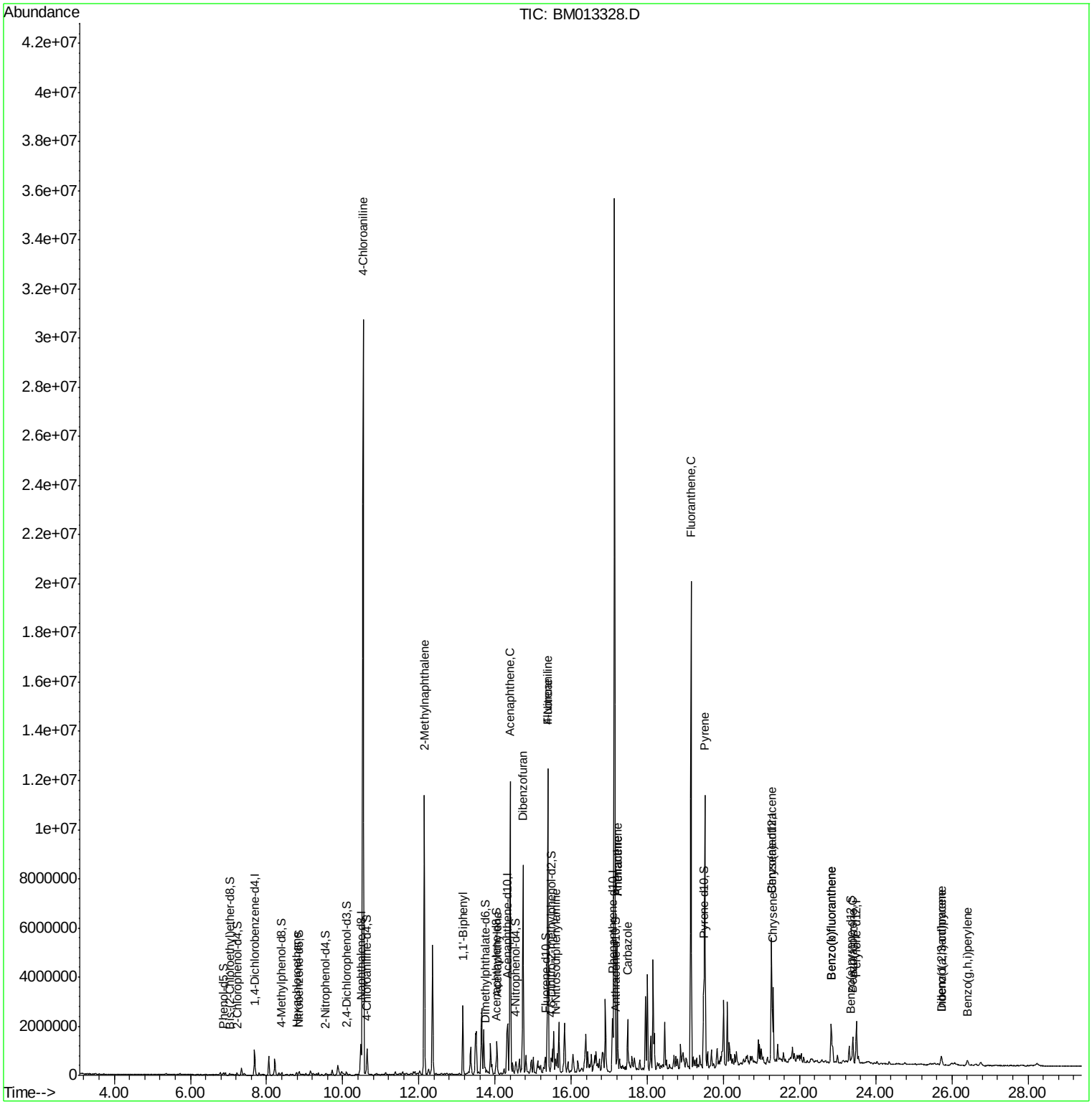
(#) = qualifier out of range (m) = manual integration (+) = signals summed

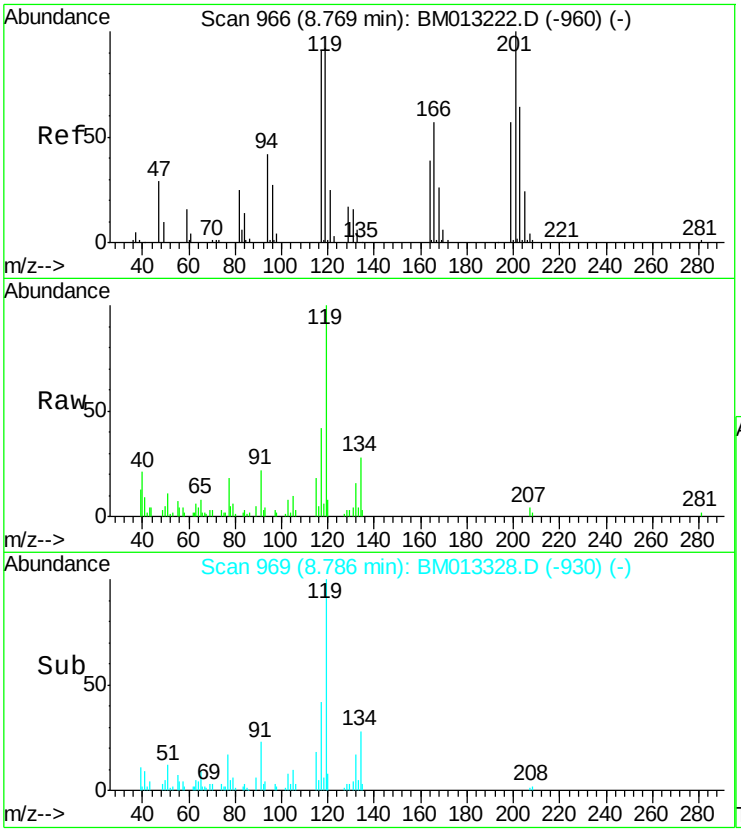
Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121117\
Data File : BM013328.D
Acq On : 12 Dec 2017 05:30
Operator : SJ/JU
Sample : I6758-13 10X
Misc :
ALS Vial : 31 Sample Multiplier: 1

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

Quant Time: Dec 12 06:19:48 2017
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 12 02:07:09 2017
Response via : Initial Calibration



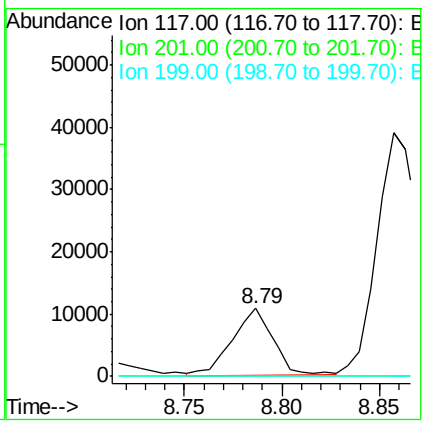


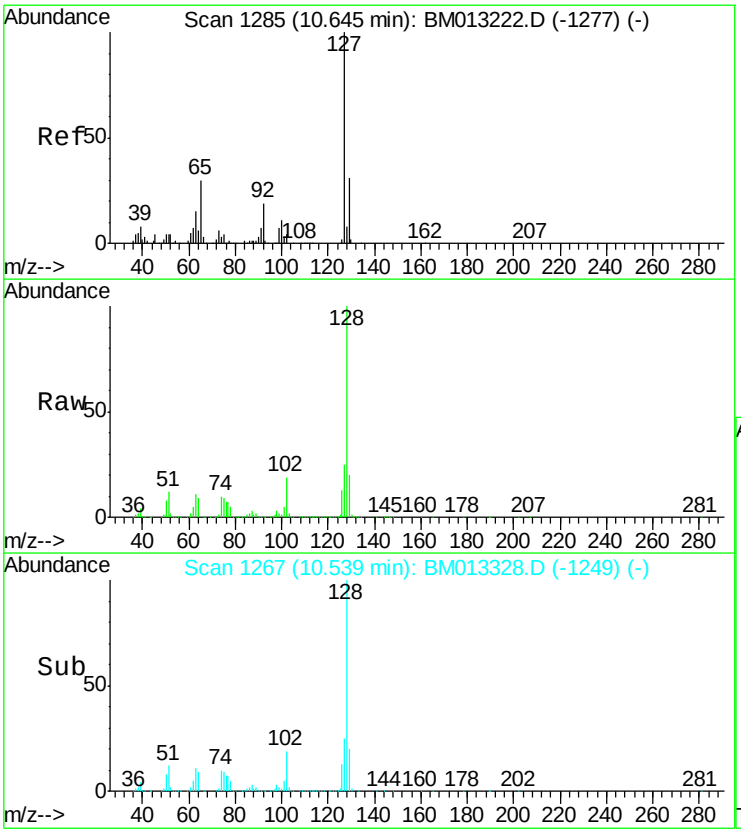

#17
Hexachloroethane
Concen: 2.055 ng/ul
RT: 8.79 min Scan# 969
Delta R.T. 0.03 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

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

Tgt Ion:117 Resp: 15573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 0.0 | 111.6 | 167.4# |
| 199 | 0.0 | 67.8 | 101.6# |

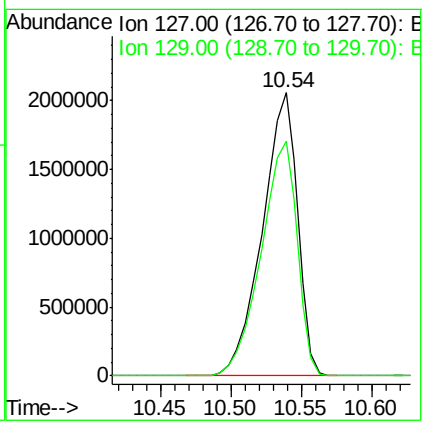


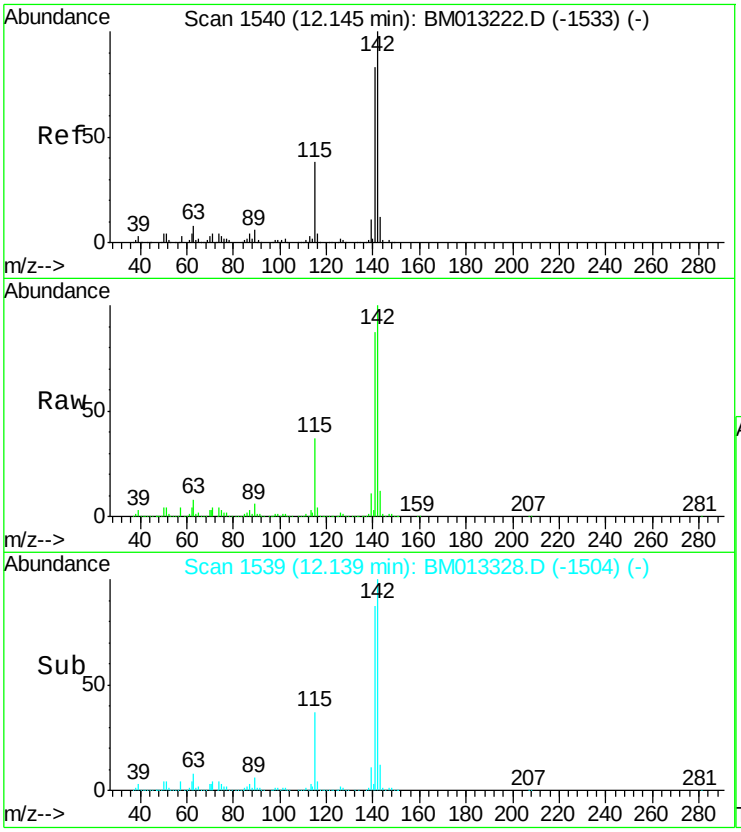




#30
4-Chloroaniline
Concen: 204.950 ng/ul
RT: 10.54 min Scan# 1267
Delta R.T. -0.09 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

Tgt Ion:127 Resp: 3591898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 82.9 | 28.4 | 42.6# |



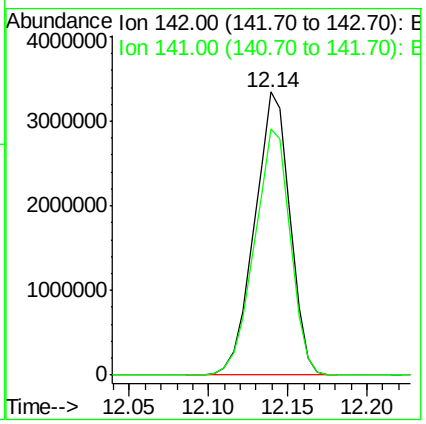


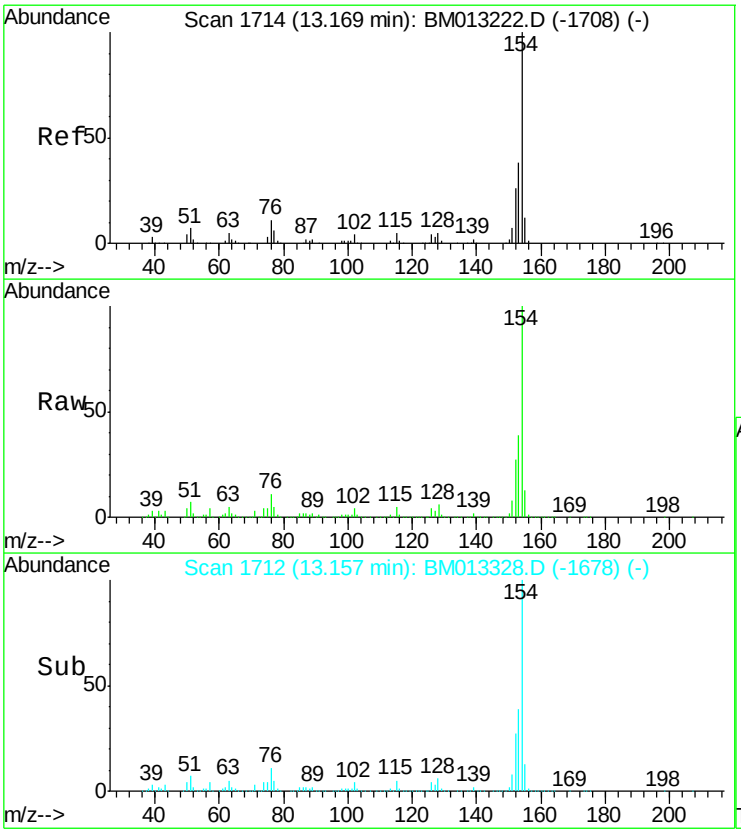

#34
2-Methylnaphthalene
Concen: 119.588 ng/ul
RT: 12.14 min Scan# 1539
Delta R.T. 0.01 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

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

Tgt Ion:142 Resp: 5208486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 86.8 | 74.1 | 111.1 |

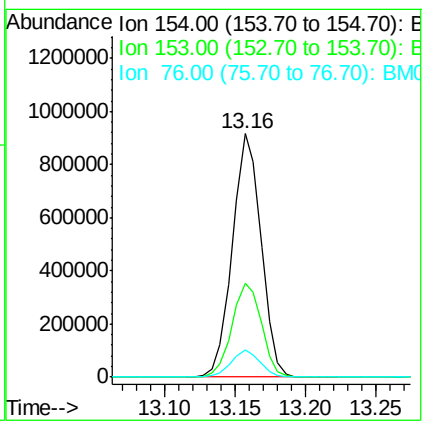


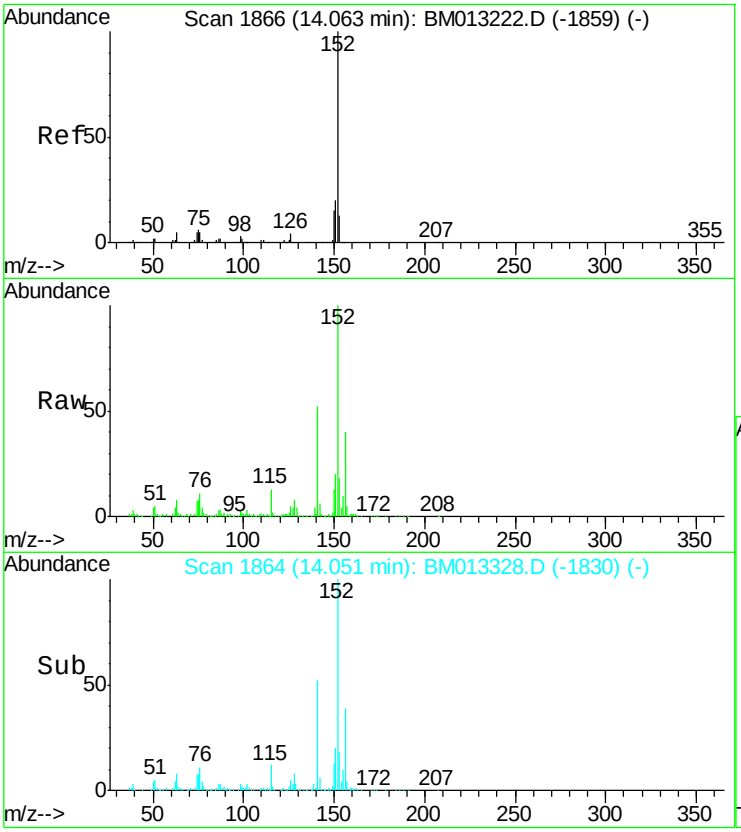




#40
1,1'-Biphenyl
Concen: 23.044 ng/ul
RT: 13.16 min Scan# 1712
Delta R.T. -0.00 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

Tgt Ion:154 Resp: 1298580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 38.6 | 32.6 | 48.8 |
| 76 | 11.4 | 8.5 | 12.7 |



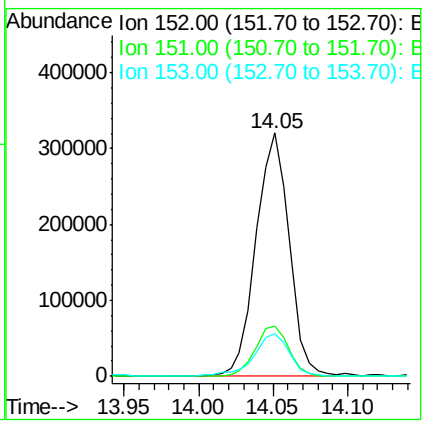


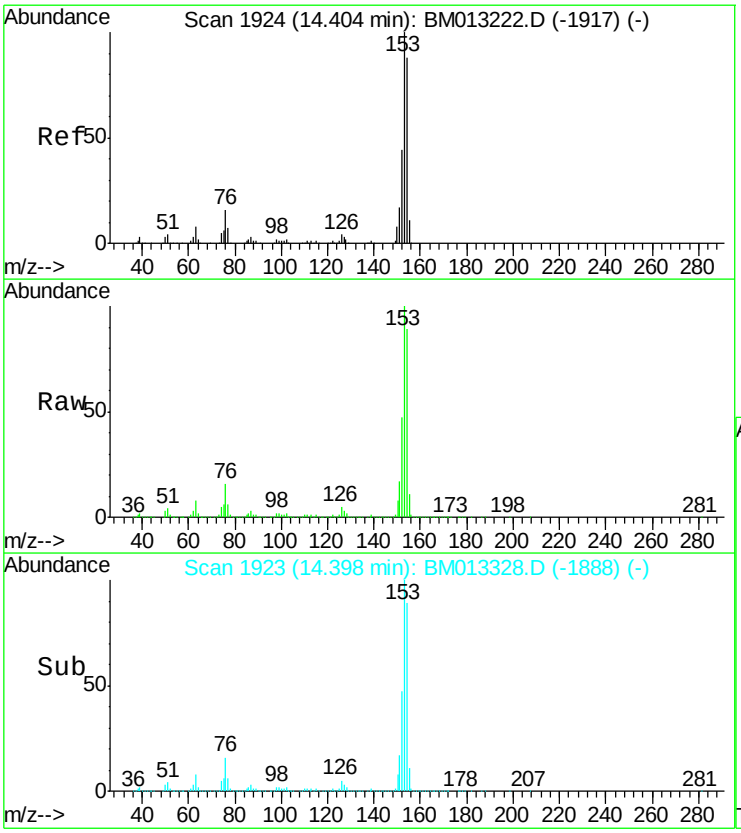

#47
Acenaphthylene
Concen: 7.267 ng/ul
RT: 14.05 min Scan# 1864
Delta R.T. -0.00 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

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

Tgt Ion:152 Resp: 492407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.4 | 16.3 | 24.5 |
| 153 | 17.7 | 10.2 | 15.4# |

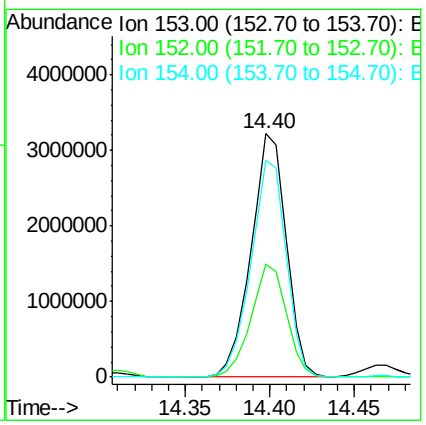


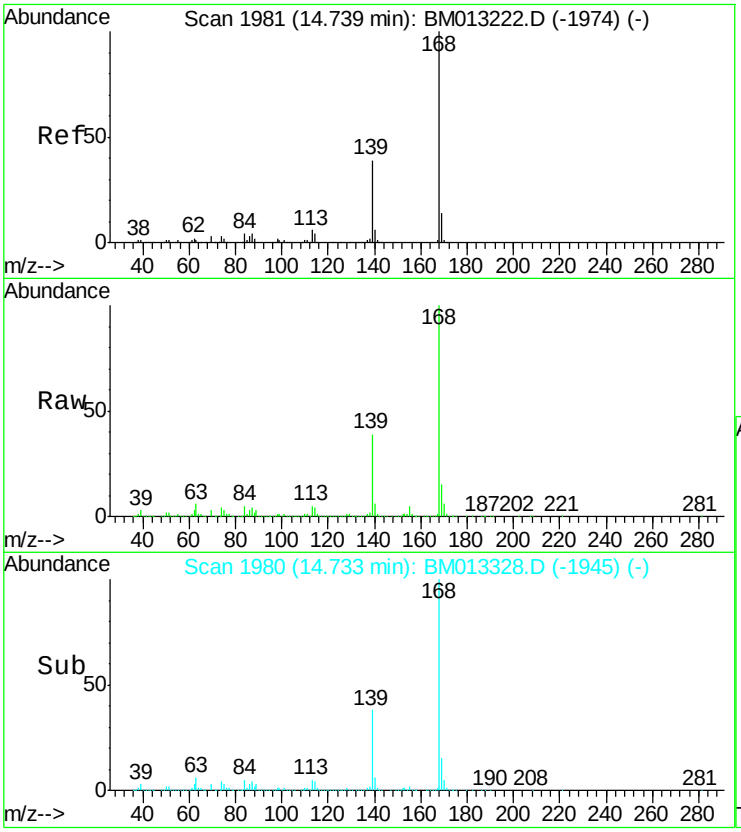




#49
Acenaphthene
Concen: 101.095 ng/ul
RT: 14.40 min Scan# 1923
Delta R.T. 0.01 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

Tgt Ion:153 Resp: 4666420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 153 | 100 | | |
| 152 | 46.6 | 37.6 | 56.4 |
| 154 | 89.0 | 70.4 | 105.6 |



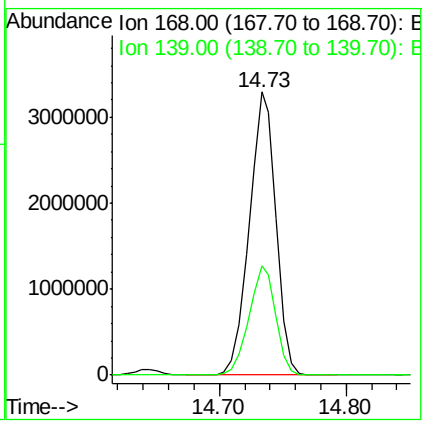


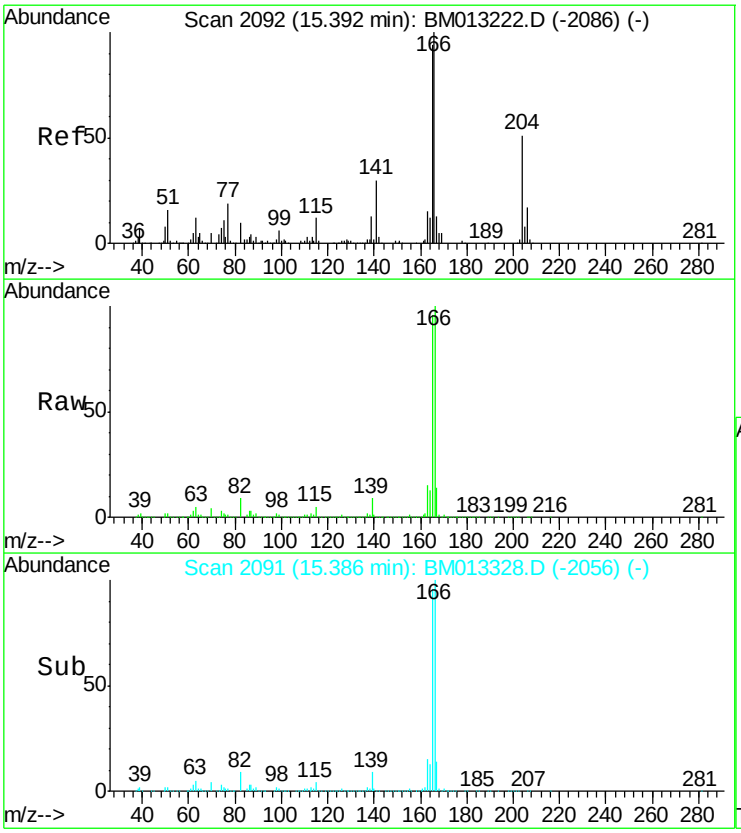

#53
Dibenzofuran
Concen: 70.509 ng/ul
RT: 14.73 min Scan# 1980
Delta R.T. 0.01 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

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

Tgt Ion:168 Resp: 4804706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 38.6 | 30.8 | 46.2 |

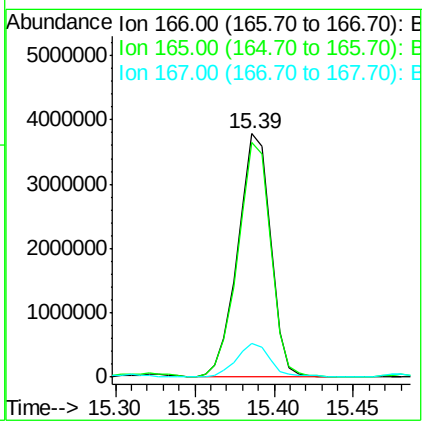


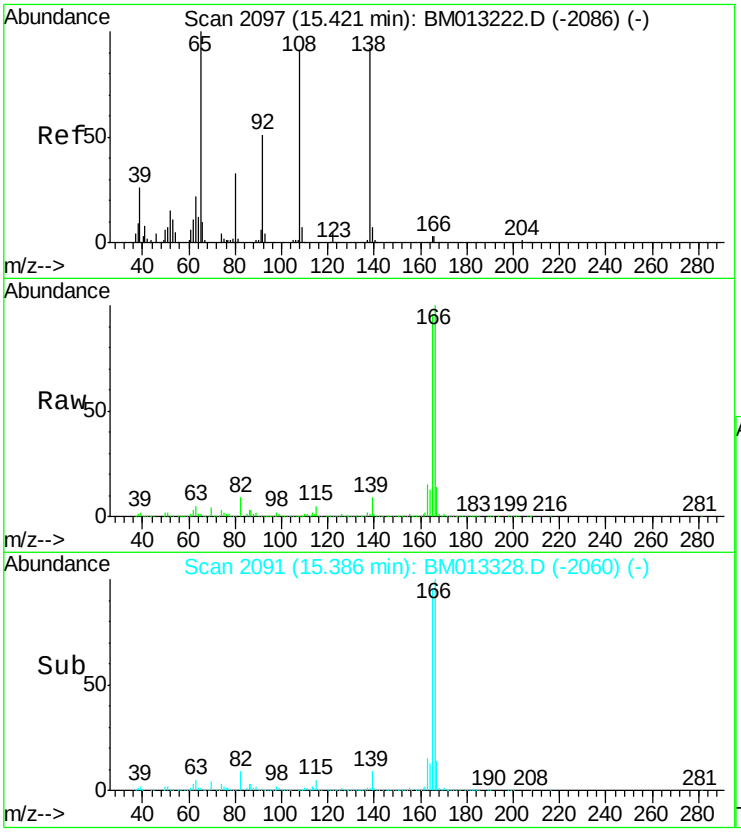




#58
Fluorene
Concen: 96.449 ng/ul
RT: 15.39 min Scan# 2091
Delta R.T. 0.01 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

Tgt Ion:166 Resp: 5437087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 96.2 | 77.9 | 116.9 |
| 167 | 13.9 | 10.6 | 16.0 |



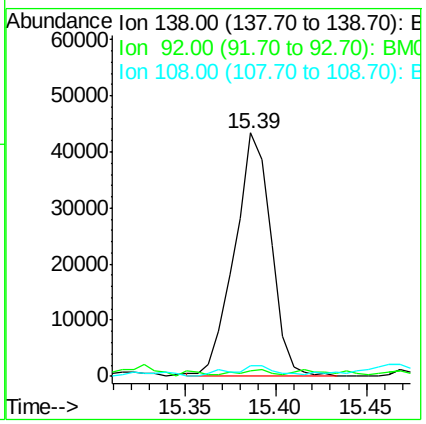


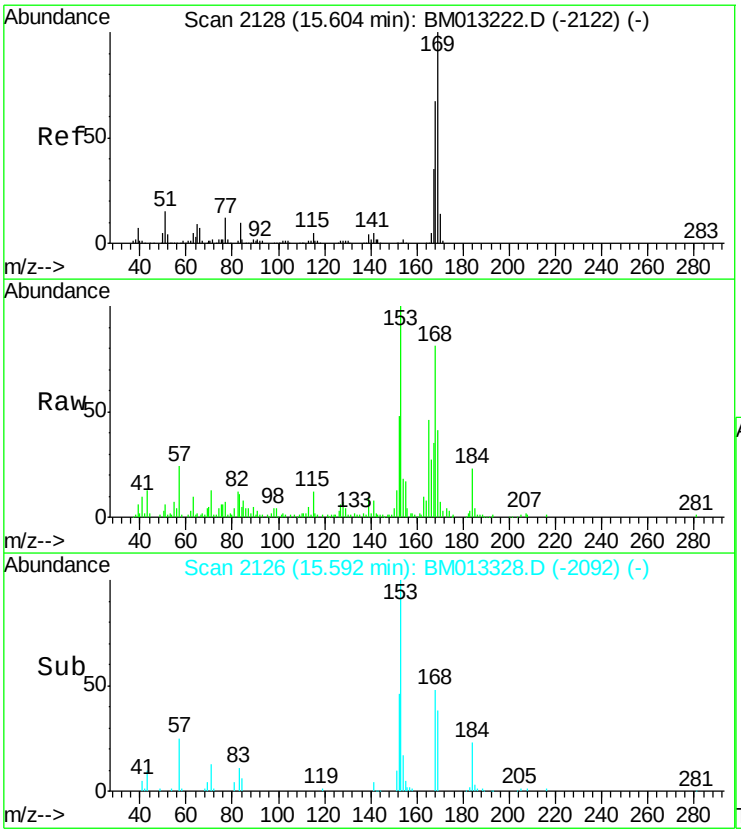

#60
4-Nitroaniline
Concen: 5.000 ng/ul
RT: 15.39 min Scan# 2091
Delta R.T. -0.02 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

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

Tgt Ion:138 Resp: 61031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 2.3 | 40.0 | 60.0# |
| 108 | 4.3 | 80.0 | 120.0# |

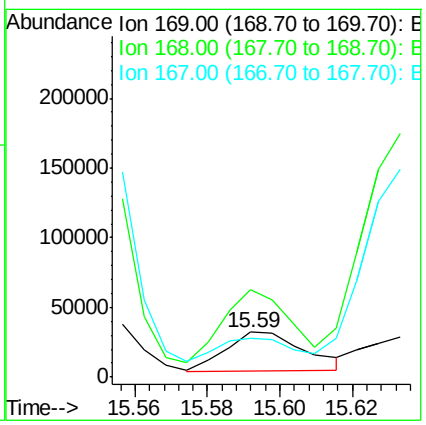


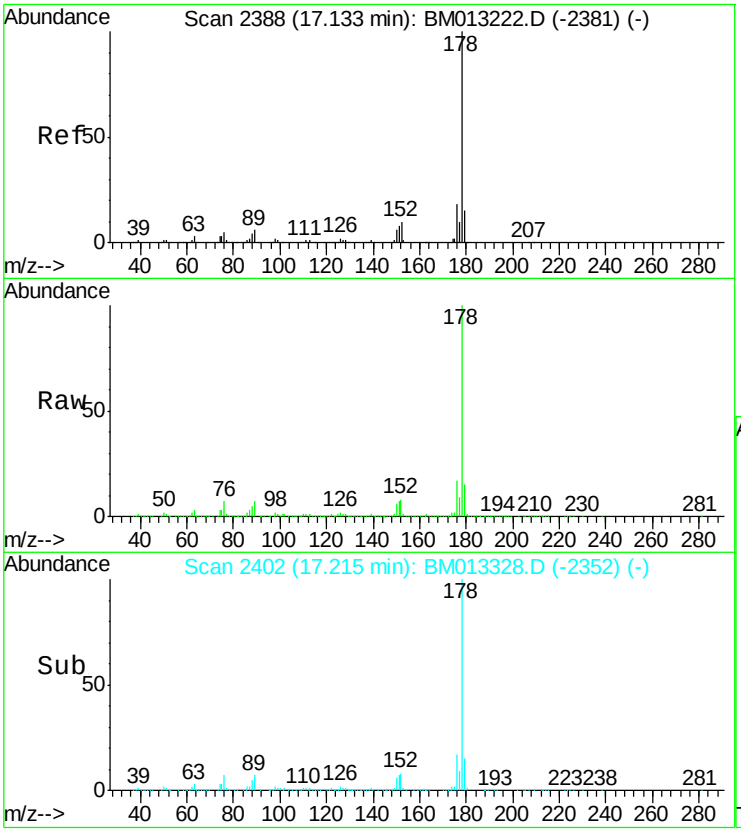




#64
N-Nitrosodiphenylamine
Concen: 1.012 ng/ul
RT: 15.59 min Scan# 2126
Delta R.T. -0.00 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

Tgt Ion:169 Resp: 42802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 195.6 | 54.0 | 81.0# |
| 167 | 85.3 | 29.1 | 43.7# |



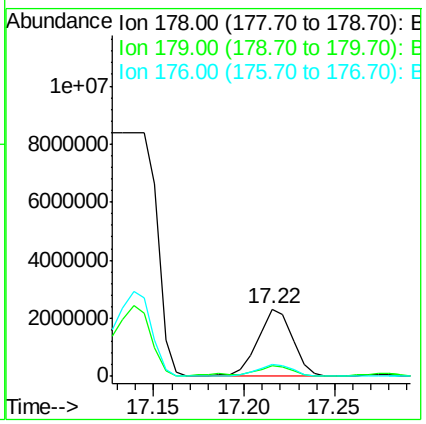


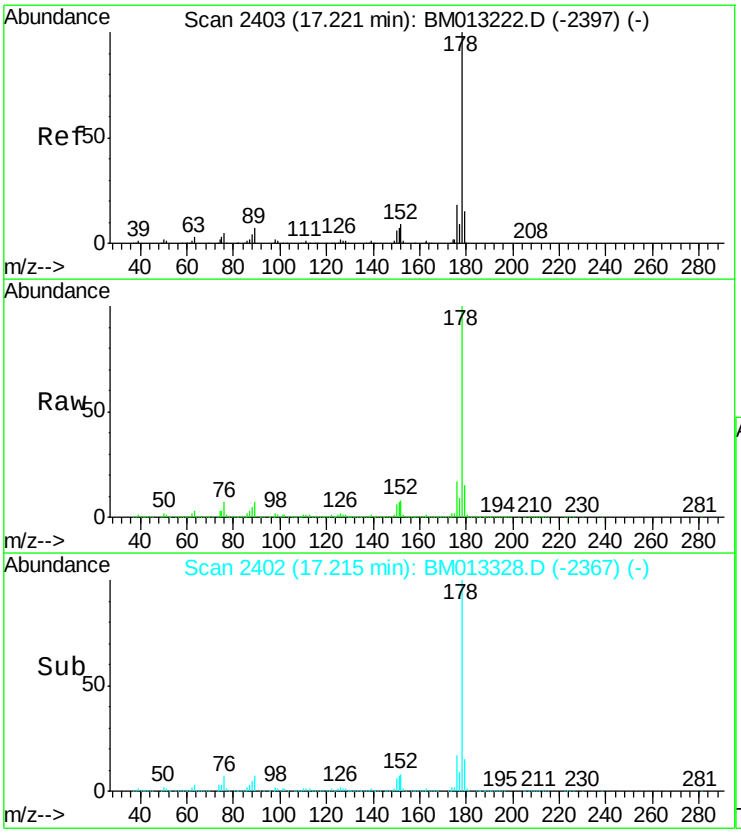

#69
Phenanthrene
Concen: 37.612 ng/ul
RT: 17.22 min Scan# 2402
Delta R.T. 0.09 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

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

Tgt Ion:178 Resp: 3066477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.3 | 12.6 | 19.0 |
| 176 | 17.3 | 14.9 | 22.3 |

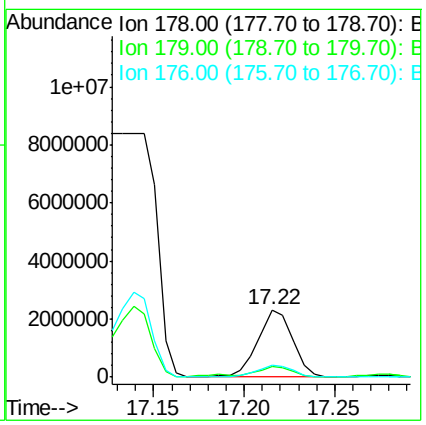


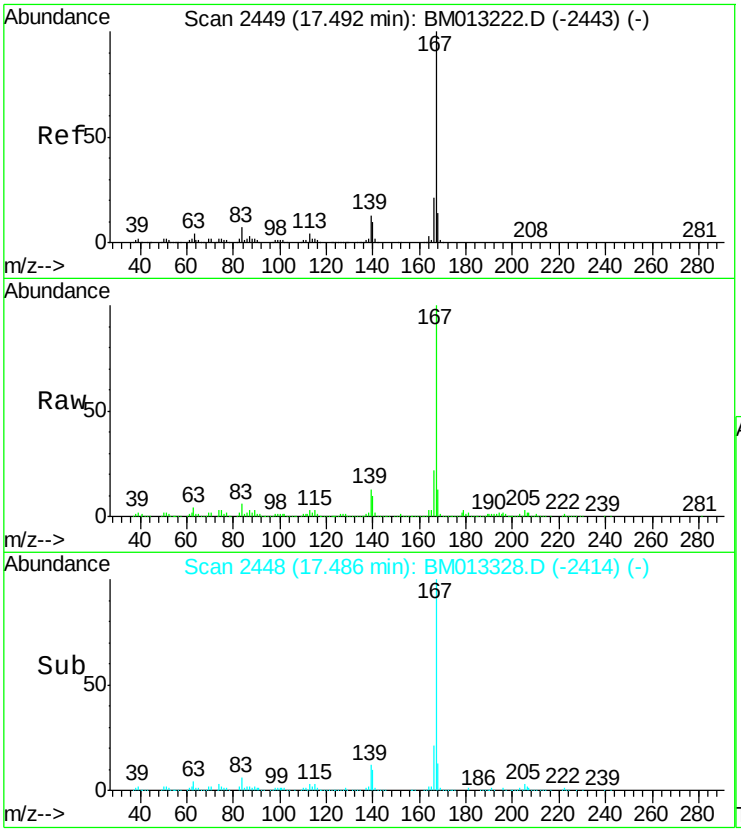




#71
Anthracene
Concen: 36.796 ng/ul
RT: 17.22 min Scan# 2402
Delta R.T. 0.01 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

Tgt Ion:178 Resp: 3066477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.3 | 11.7 | 17.5 |
| 176 | 17.3 | 14.6 | 21.8 |



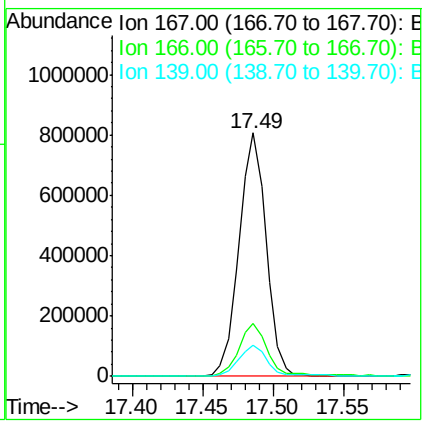


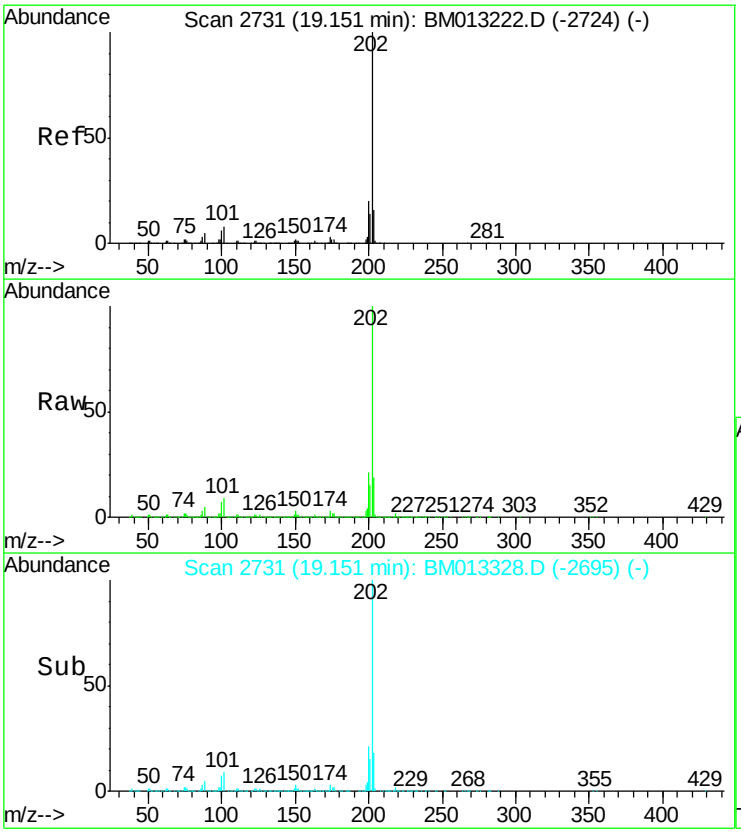

#72
Carbazole
Concen: 15.060 ng/ul
RT: 17.49 min Scan# 2448
Delta R.T. -0.00 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

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

Tgt Ion:167 Resp: 1079507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.6 | 17.1 | 25.7 |
| 139 | 12.7 | 10.0 | 15.0 |

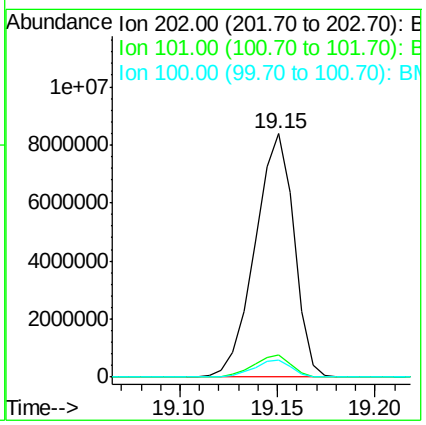


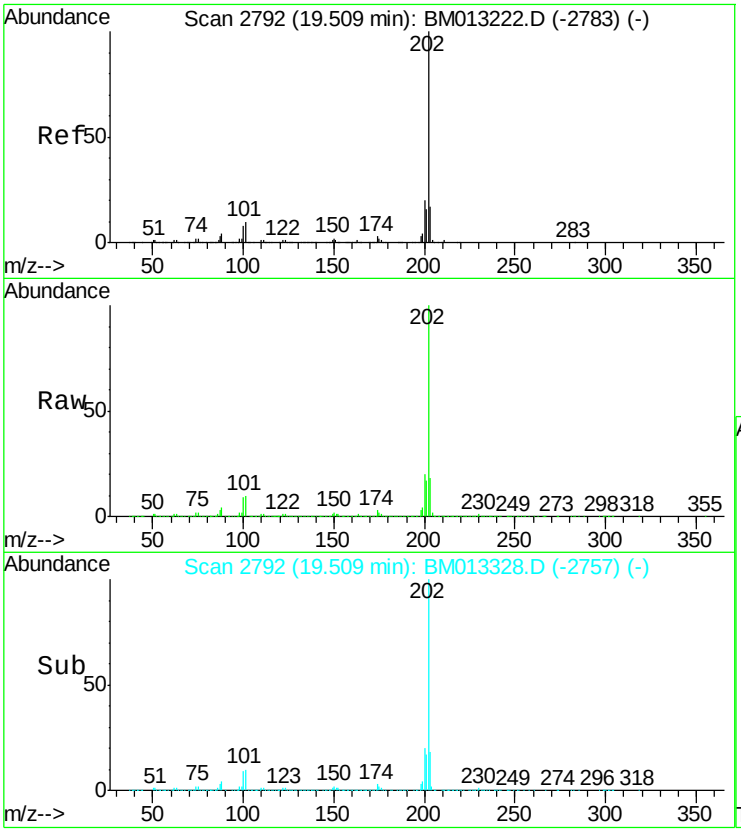




#74
Fluoranthene
Concen: 115.590 ng/ul
RT: 19.15 min Scan# 2731
Delta R.T. 0.01 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

Tgt Ion:202 Resp:11548851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.3 | 4.6 | 7.0# |
| 100 | 7.2 | 3.4 | 5.2# |



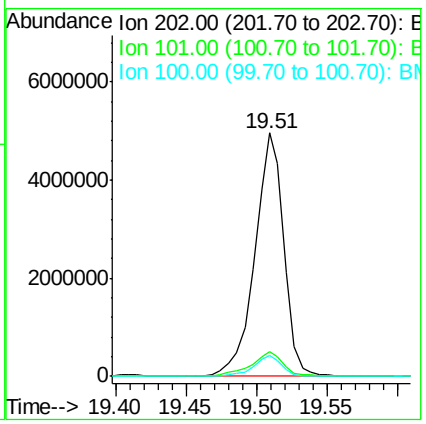


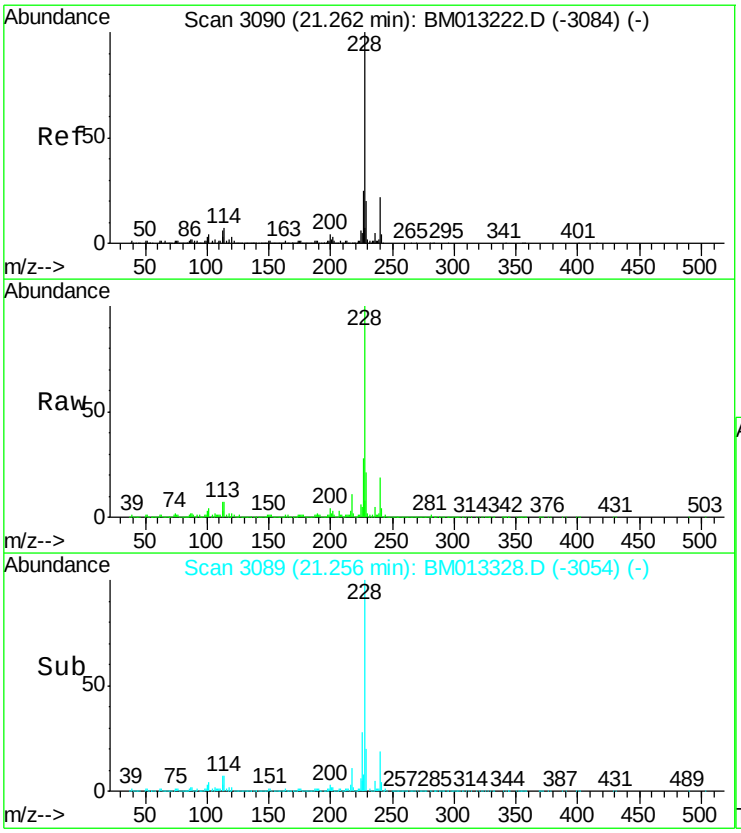

#77
Pyrene
Concen: 79.875 ng/ul
RT: 19.51 min Scan# 2792
Delta R.T. 0.01 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

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

Tgt Ion:202 Resp: 7133224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.9 | 5.1 | 7.7# |
| 100 | 8.5 | 4.9 | 7.3# |

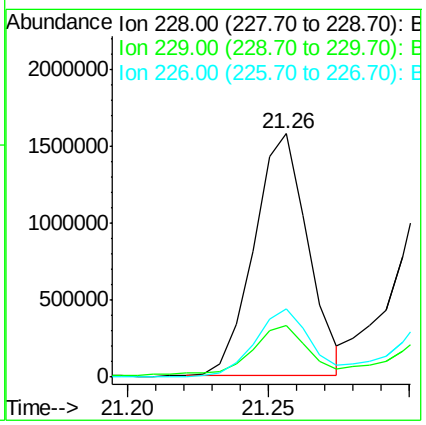


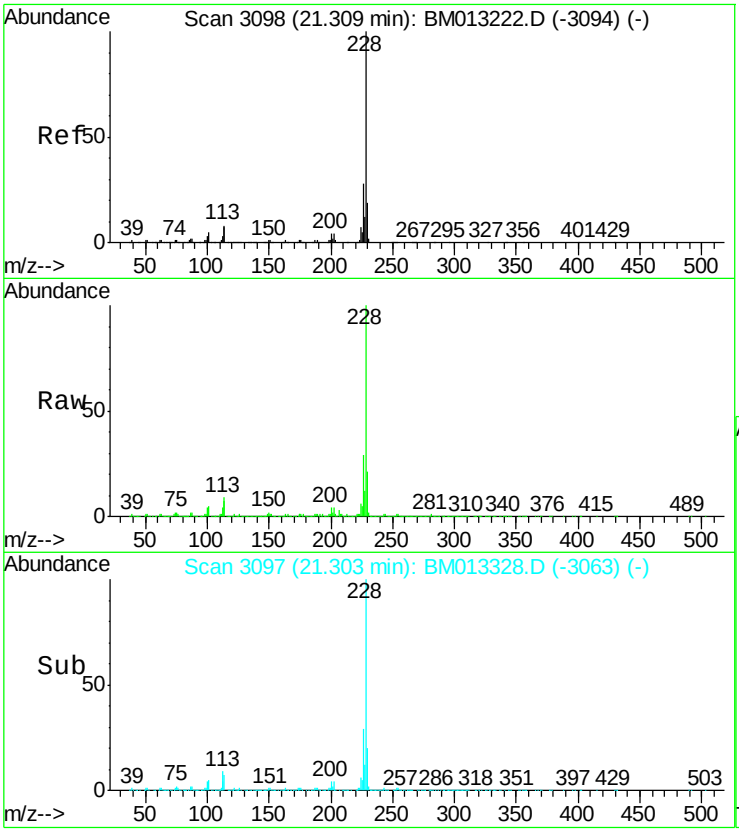




#80
Benzo(a)anthracene
Concen: 22.432 ng/ul
RT: 21.26 min Scan# 3089
Delta R.T. 0.01 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

Tgt Ion:228 Resp: 2092134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 21.0 | 15.4 | 23.0 |
| 226 | 27.8 | 21.4 | 32.0 |



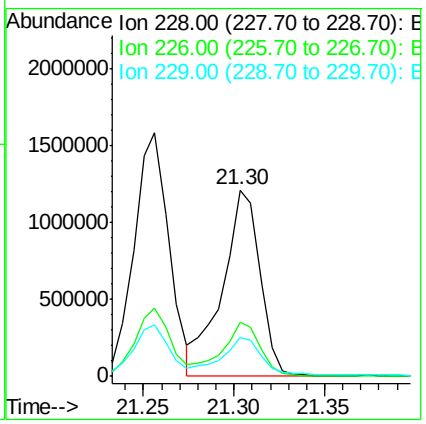


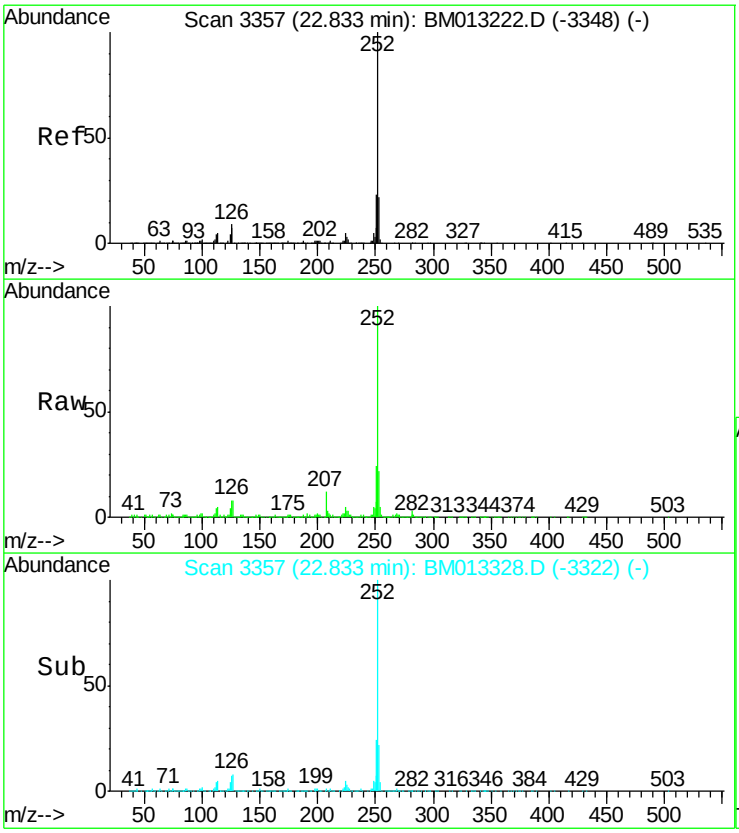

#82
Chrysene
Concen: 20.124 ng/ul
RT: 21.30 min Scan# 3097
Delta R.T. -0.00 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

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

Tgt Ion:228 Resp: 1741302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.1 | 23.4 | 35.2 |
| 229 | 20.9 | 15.5 | 23.3 |

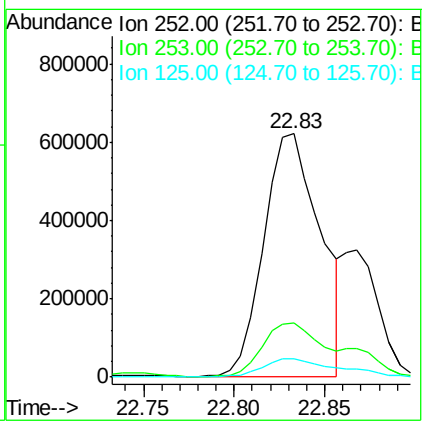


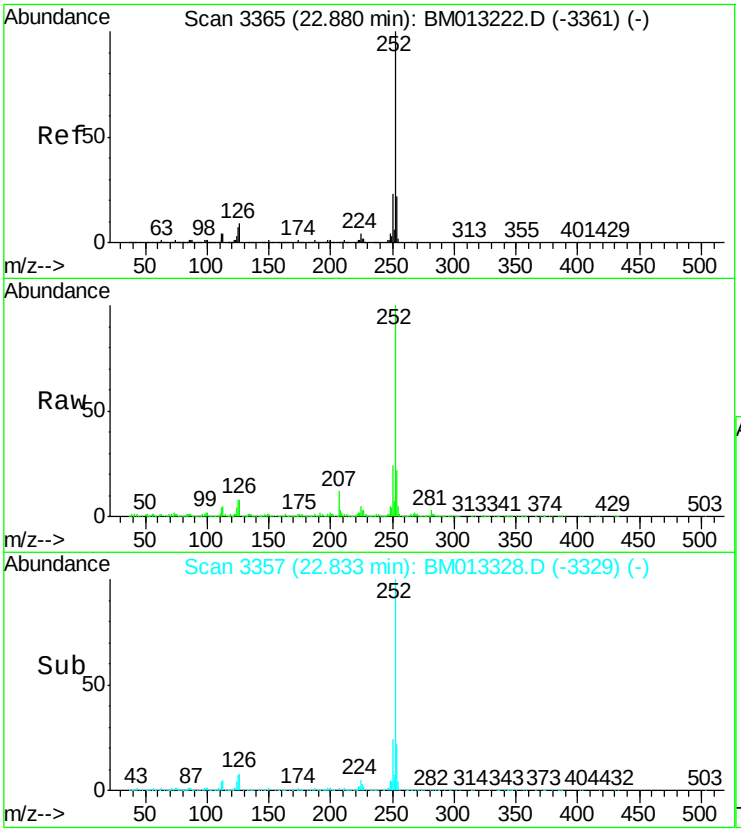




#85
Benzo(b)fluoranthene
Concen: 16.280 ng/ul
RT: 22.83 min Scan# 3357
Delta R.T. 0.01 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

Tgt Ion:252 Resp: 1350025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.1 | 17.9 | 26.9 |
| 125 | 7.6 | 3.6 | 5.4# |



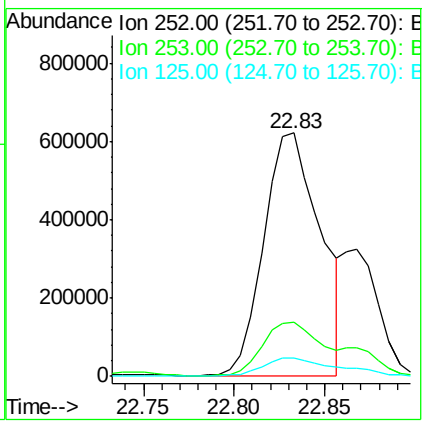


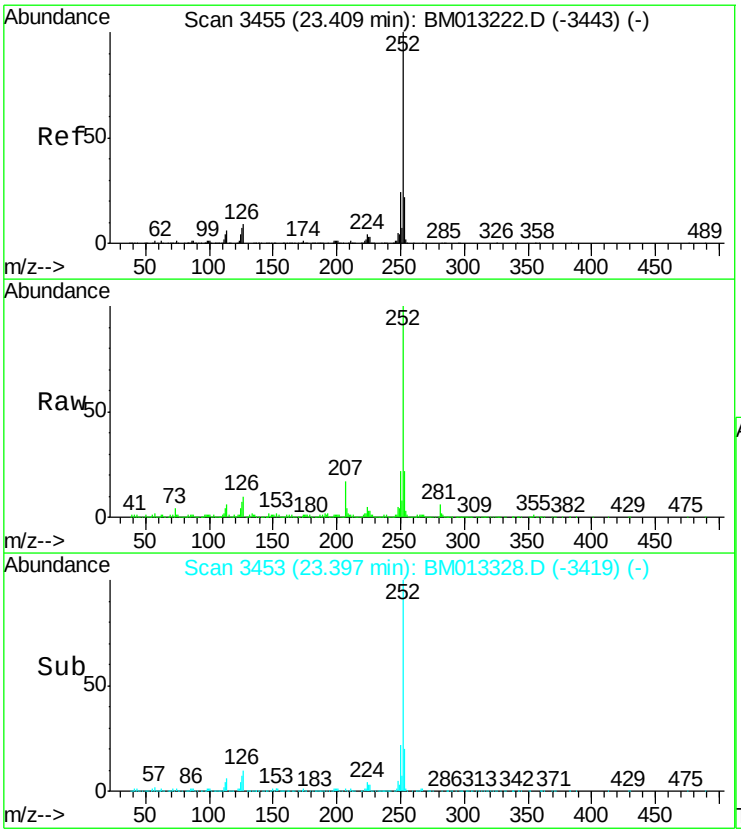

#86
Benzo(k)fluoranthene
Concen: 17.299 ng/ul
RT: 22.83 min Scan# 3357
Delta R.T. -0.04 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

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

Tgt Ion:252 Resp: 1350025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.1 | 17.1 | 25.7 |
| 125 | 7.6 | 3.4 | 5.2# |

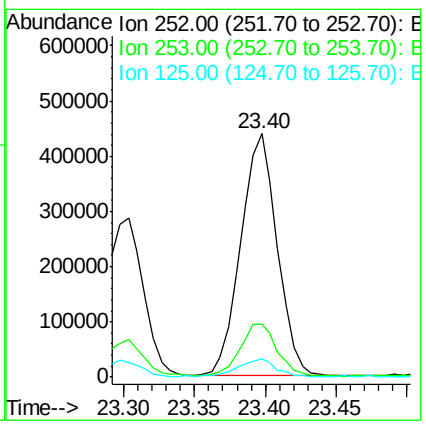


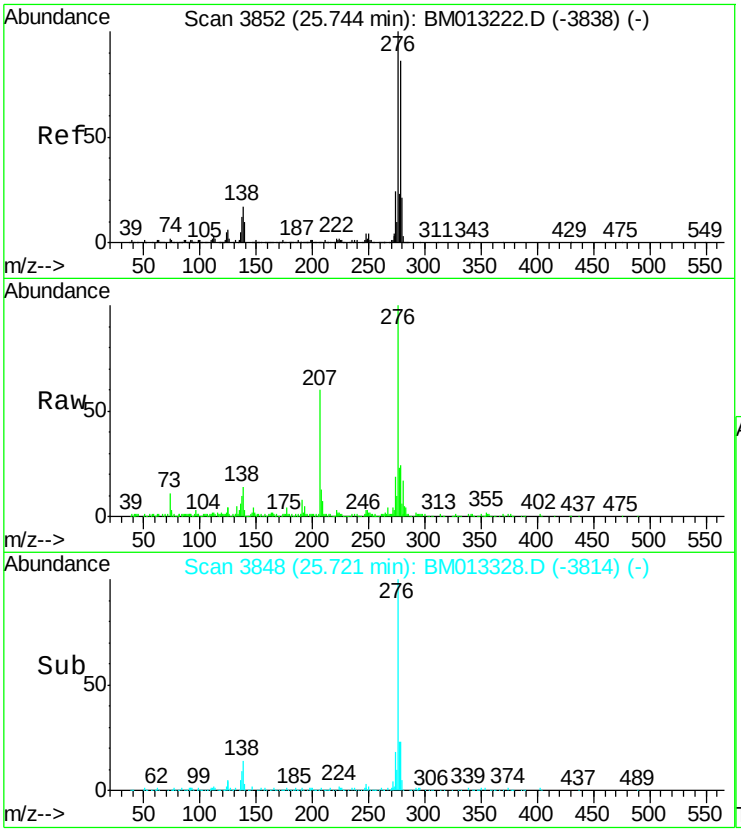




#88
Benzo(a)pyrene
Concen: 10.657 ng/ul
RT: 23.40 min Scan# 3453
Delta R.T. -0.00 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

Tgt Ion:252 Resp: 793871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.0 | 18.2 | 27.2 |
| 125 | 7.4 | 4.0 | 6.0# |



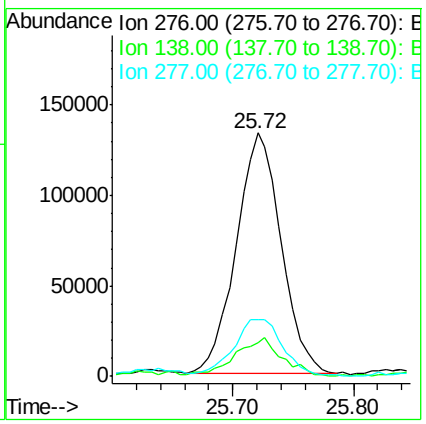


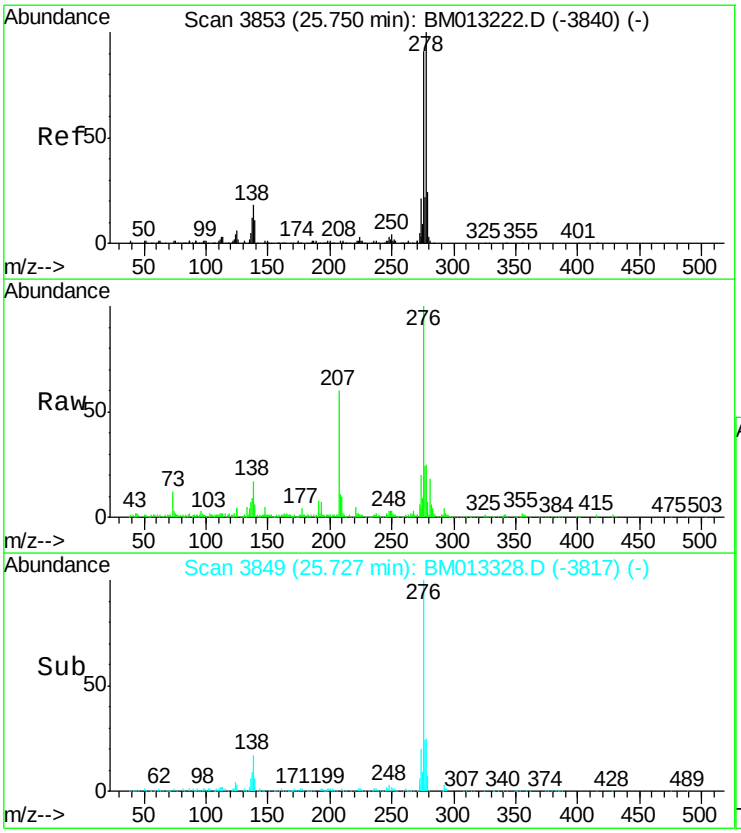

#89
Indeno(1,2,3-cd)pyrene
Concen: 4.639 ng/ul
RT: 25.72 min Scan# 3848
Delta R.T. -0.00 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

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

Tgt Ion:276 Resp: 342872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 13.8 | 9.3 | 13.9 |
| 277 | 23.4 | 19.9 | 29.9 |

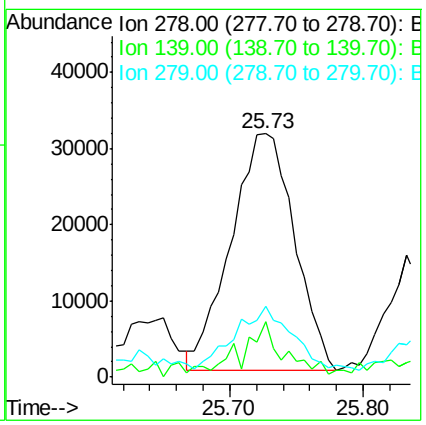


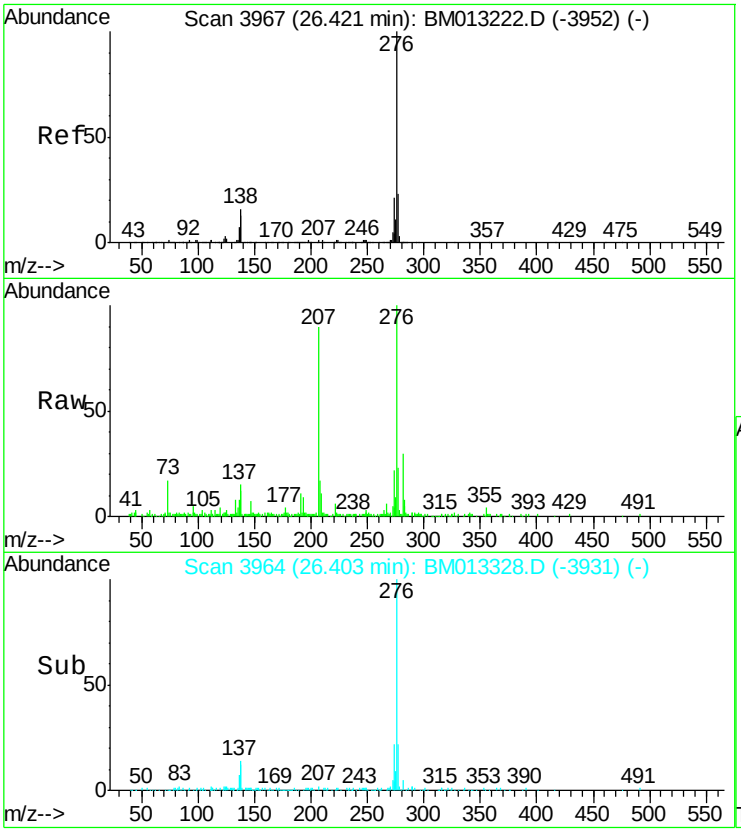




#90
Dibenzo(a,h)anthracene
Concen: 1.626 ng/ul
RT: 25.73 min Scan# 3849
Delta R.T. -0.01 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

Tgt Ion:278 Resp: 102314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 22.6 | 5.8 | 8.8# |
| 279 | 29.1 | 18.6 | 27.8# |






#91
Benzo(g,h,i)perylene
Concen: 4.380 ng/ul
RT: 26.40 min Scan# 3964
Delta R.T. -0.01 min
Lab File: BM013328.D
Acq: 12 Dec 2017 05:30

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

Tgt Ion:276 Resp: 255378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 11.8 | 8.5 | 12.7 |
| 277 | 22.8 | 18.6 | 28.0 |