Quantitation Report (Not Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070319\
Data File : BE100341.D
Acq On : 3 Jul 2019 22:42
Operator : JU/SJ
Sample : K3560-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_E
**ClientSampleId :**

Quant Time: Jul 04 00:37:28 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 28 14:06:53 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.63 | 152 | 643 | 0.40 | ng | | -0.01 |
| 7) Naphthalene-d8 | 10.43 | 136 | 2189 | 0.40 | ng | | -0.01 |
| 13) Acenaphthene-d10 | 14.31 | 164 | 1808 | 0.40 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.05 | 188 | 5662 | 0.40 | ng | | 0.00 |
| 27) Chrysene-d12 | 21.25 | 240 | 7466 | 0.40 | ng | | 0.00 |
| 34) Perylene-d12 | 23.66 | 264 | 8777 | 0.40 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 4) 2-Fluorophenol | 5.20 | 112 | 634 | 0.39 | ng | | -0.01 |
| 5) Phenol-d6 | 6.82 | 99 | 799 | 0.37 | ng | | -0.01 |
| 8) Nitrobenzene-d5 | 8.81 | 82 | 708 | 0.33 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.04 | 152 | 1650 | 0.40 | ng | | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.81 | 330 | 561 | 0.44 | ng | | -0.01 |
| 15) 2-Fluorobiphenyl | 12.93 | 172 | 2513 | 0.36 | ng | | -0.01 |
| 25) Fluoranthene-d10 | 19.09 | 212 | 29328 | 0.36 | ng | | 0.00 |
| 29) Terphenyl-d14 | 19.69 | 244 | 6878 | 0.44 | ng | | -0.01 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.07 | 88 | 23 | 0.023 | ng | # | 1 |
| 9) Naphthalene | 10.49 | 128 | 2611 | 0.108 | ng | # | 92 |
| 12) 2-Methylnaphthalene | 12.11 | 142 | 594 | 0.140 | ng | | 96 |
| 16) Acenaphthylene | 14.03 | 152 | 3621 | 0.417 | ng | | 99 |
| 17) Acenaphthene | 14.37 | 154 | 245 | 0.050 | ng | # | 88 |
| 18) Fluorene | 15.35 | 166 | 856 | 0.118 | ng | # | 79 |
| 23) Phenanthrene | 17.09 | 178 | 23529 | 1.715 | ng | | 99 |
| 24) Anthracene | 17.19 | 178 | 2412 | 0.195 | ng | # | 90 |
| 26) Fluoranthene | 19.12 | 202 | 43240 | 1.978 | ng | | 98 |
| 28) Pyrene | 19.48 | 202 | 60891 | 3.081 | ng | | 97 |
| 30) Benzo(a)anthracene | 21.22 | 228 | 29483 | 1.201 | ng | | 95 |
| 31) Chrysene | 21.27 | 228 | 37273 | 1.512 | ng | | 95 |
| 32) Bis(2-ethylhexyl)phthalate | 21.15 | 149 | 21694 | 0.568 | ng | | 100 |
| 33) Indeno(1,2,3-cd)pyrene | 26.22 | 276 | 17869 | 0.548 | ng | | 98 |
| 35) Benzo(b)fluoranthene | 22.92 | 252 | 34392 | 1.445 | ng | # | 98 |
| 36) Benzo(k)fluoranthene | 22.92 | 252 | 34392 | 1.295 | ng | | 98 |
| 37) Benzo(a)pyrene | 23.55 | 252 | 24577 | 1.030 | ng | # | 97 |
| 38) Dibenzo(a,h)anthracene | 26.22 | 278 | 4555 | 0.183 | ng | # | 75 |
| 39) Benzo(g,h,i)perylene | 27.00 | 276 | 20977 | 0.820 | ng | | 99 |

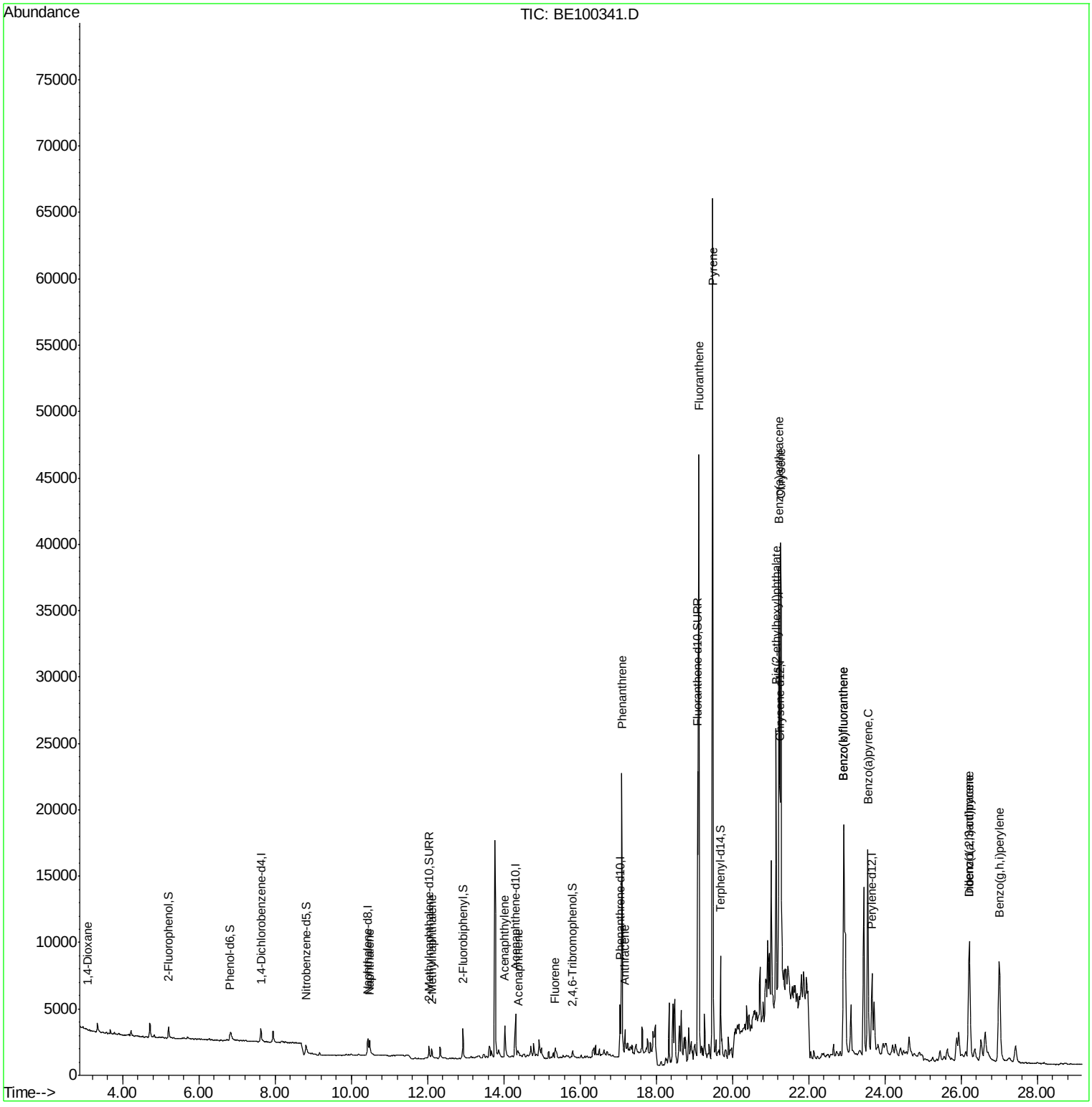
(#) = qualifier out of range (m) = manual integration (+) = signals summed

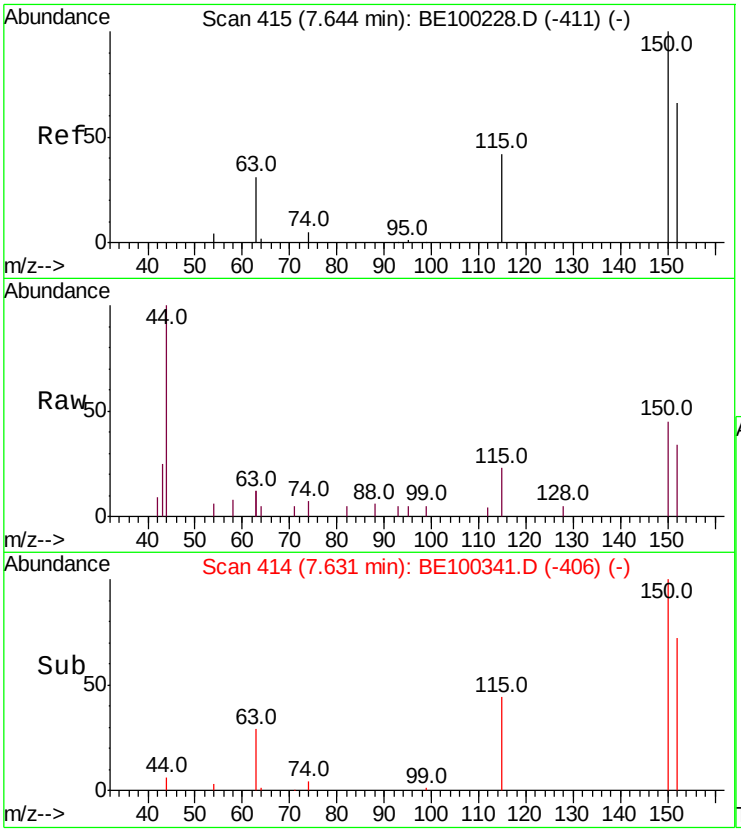
Quantitation Report (Not Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070319\
Data File : BE100341.D
Acq On : 3 Jul 2019 22:42
Operator : JU/SJ
Sample : K3560-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**

Quant Time: Jul 04 00:37:28 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 28 14:06:53 2019
Response via : Initial Calibration



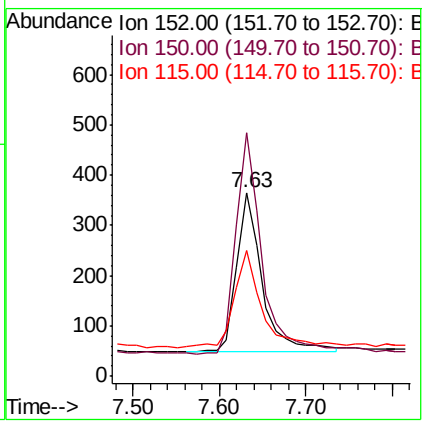


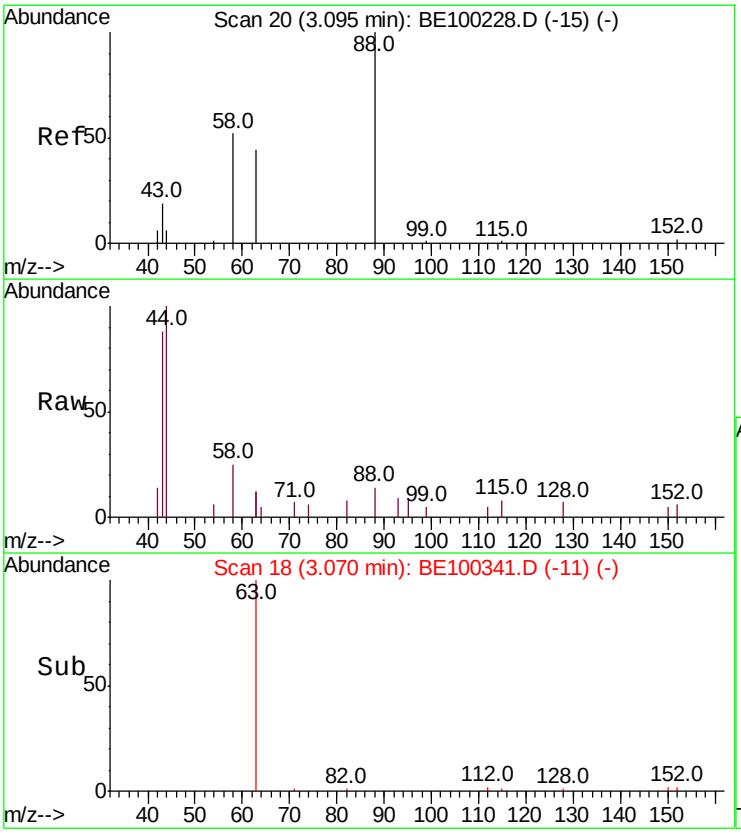

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.63 min Scan# 414
Delta R.T. -0.01 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

**Instrument :**
BNA_E
**ClientSampleId :**

Tgt Ion:152 Resp: 643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 132.6 | 114.5 | 171.7 |
| 115 | 68.5 | 57.1 | 85.7 |

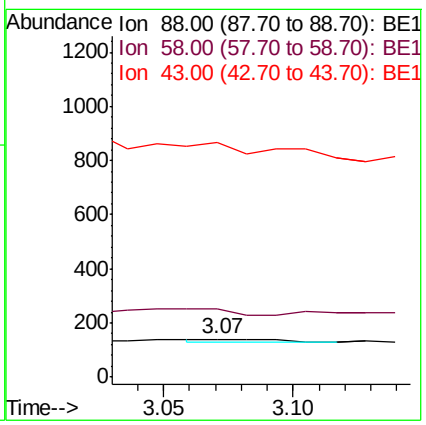


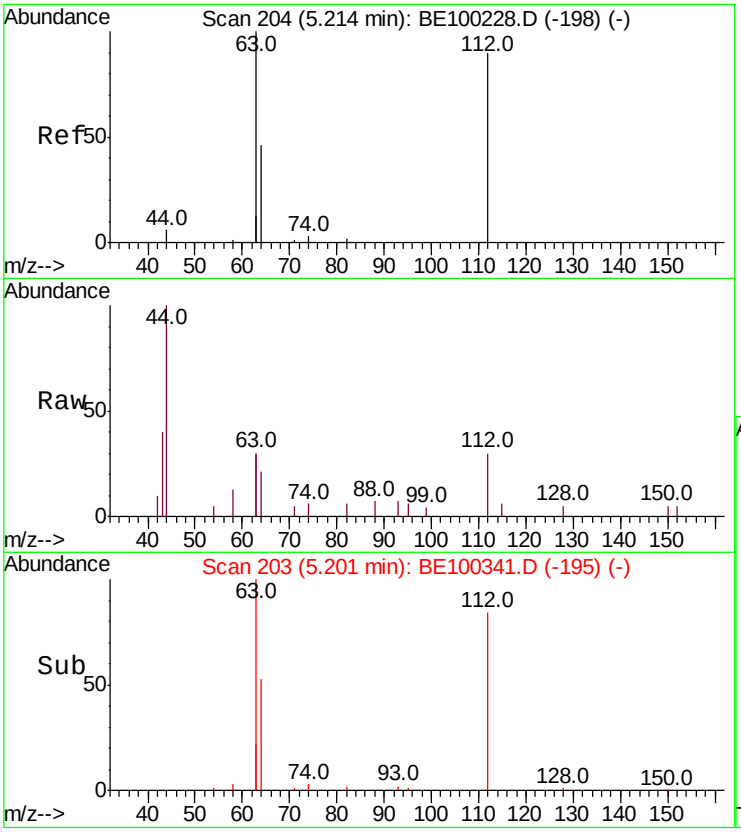




#2
1,4-Dioxane
Concen: 0.023 ng
RT: 3.07 min Scan# 18
Delta R.T. -0.02 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

Tgt Ion: 88 Resp: 23

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 221.7 | 43.6 | 65.4# |
| 43 | 0.0 | 21.4 | 32.0# |



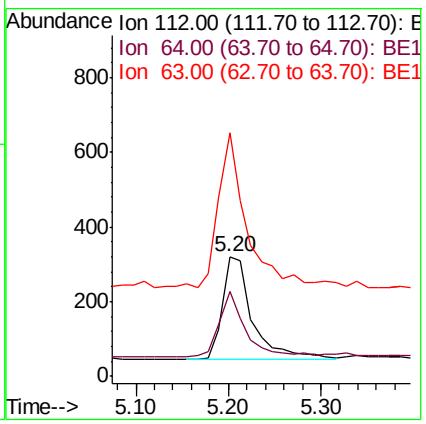


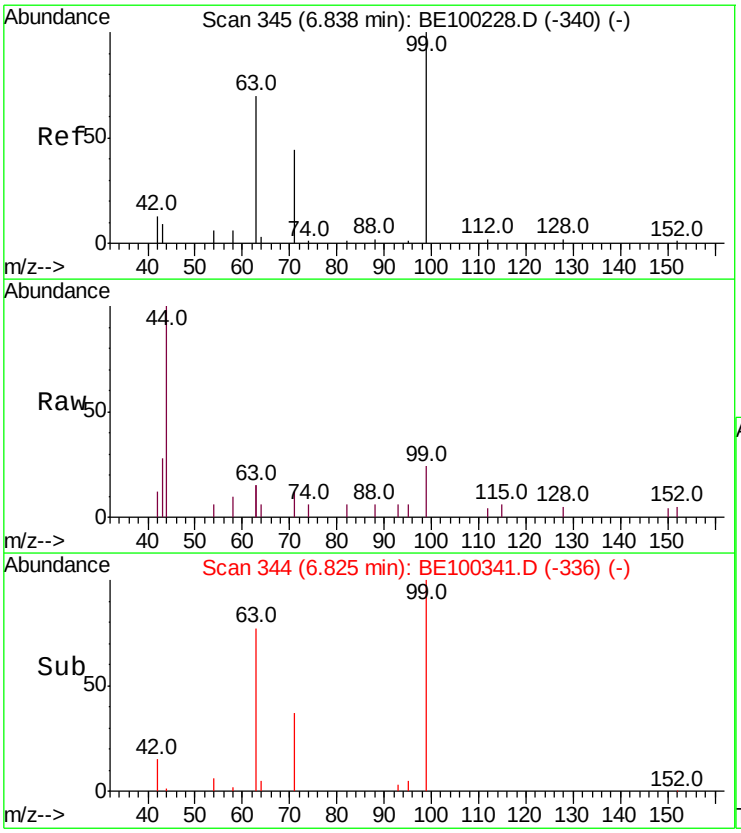

#4
2-Fluorophenol
Concen: 0.387 ng
RT: 5.20 min Scan# 203
Delta R.T. -0.01 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

**Instrument :**
BNA_E
**ClientSampleId :**

Tgt Ion:112 Resp: 634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.2 | 39.4 | 59.0 |
| 63 | 145.9 | 104.5 | 156.7 |

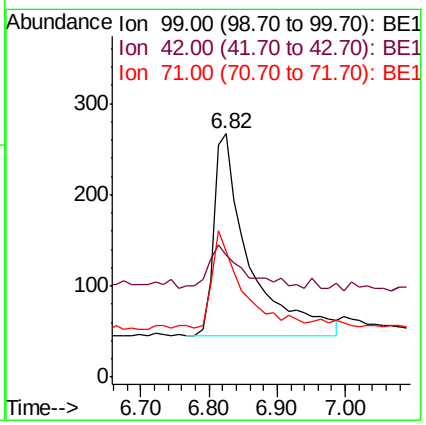


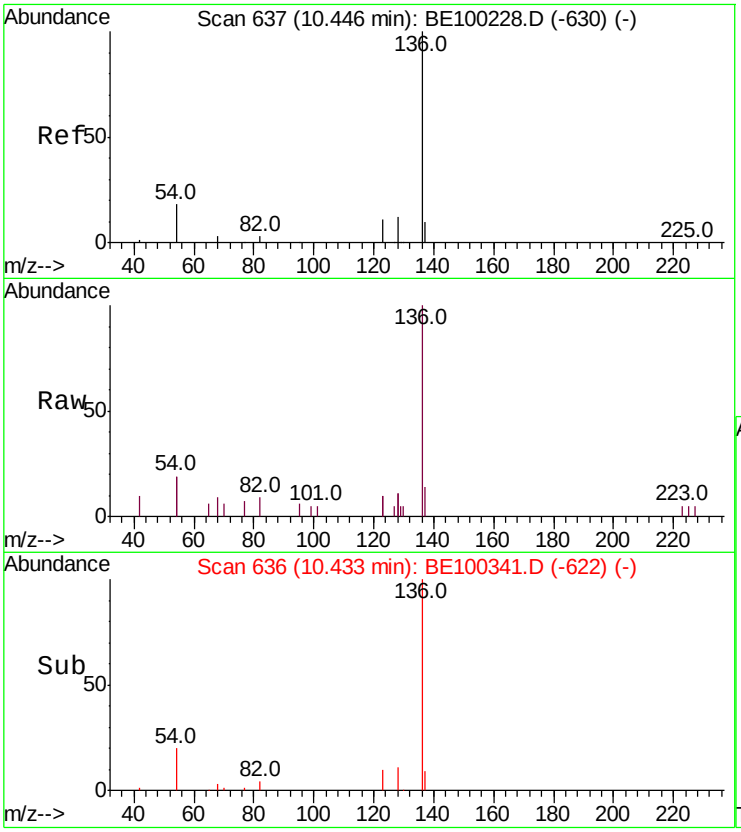




#5
Phenol-d6
Concen: 0.370 ng
RT: 6.82 min Scan# 344
Delta R.T. -0.01 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

Tgt Ion: 99 Resp: 799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.3 | 11.2 | 16.8# |
| 71 | 40.4 | 37.2 | 55.8 |



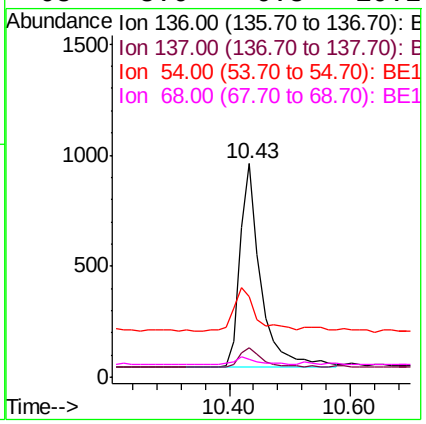


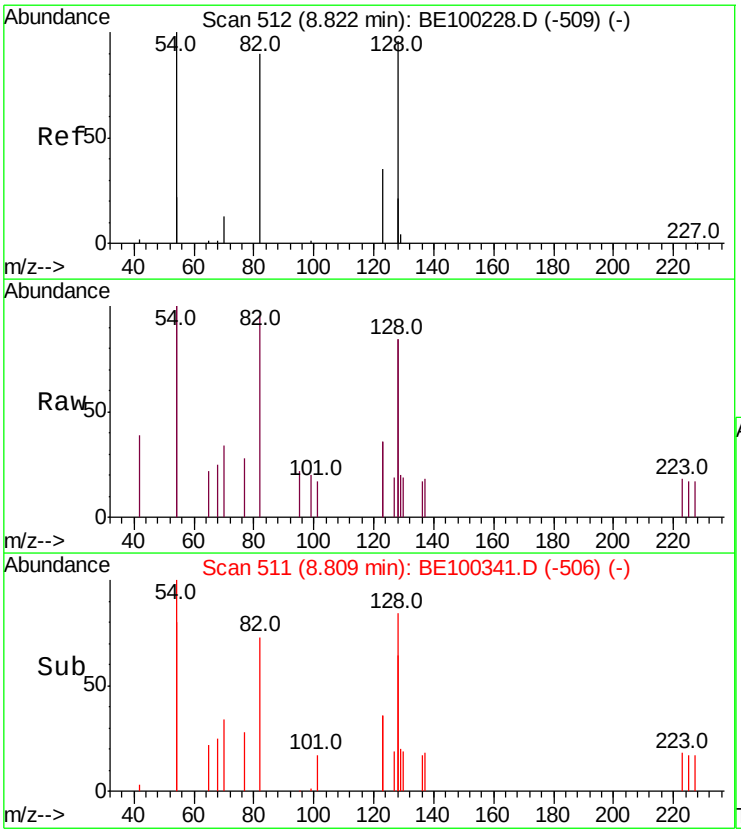

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.43 min Scan# 636
Delta R.T. -0.01 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

**Instrument :**
BNA_E
**ClientSampleId :**

Tgt Ion:136 Resp: 2189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 14.0 | 11.8 | 17.8 |
| 54 | 38.0 | 27.7 | 41.5 |
| 68 | 8.6 | 6.8 | 10.2 |

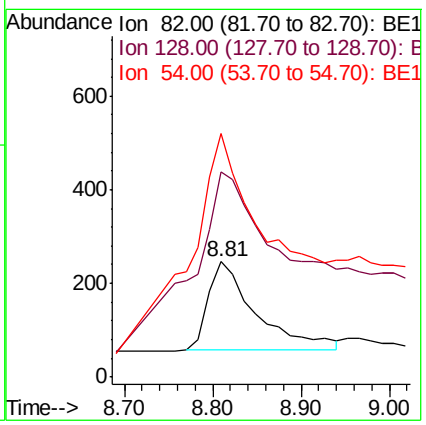


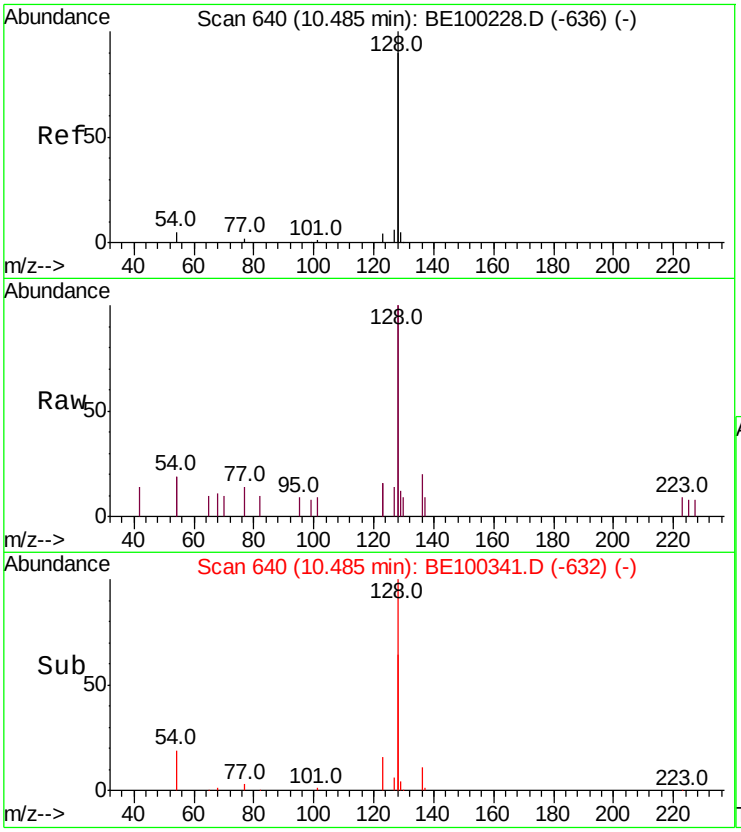




#8
Nitrobenzene-d5
Concen: 0.326 ng
RT: 8.81 min Scan# 511
Delta R.T. -0.01 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

Tgt Ion: 82 Resp: 708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 178.0 | 140.9 | 211.3 |
| 54 | 211.4 | 146.2 | 219.2 |



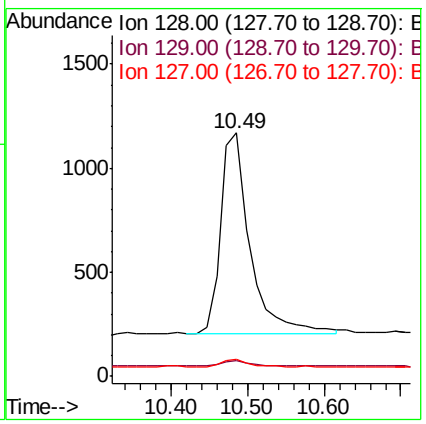


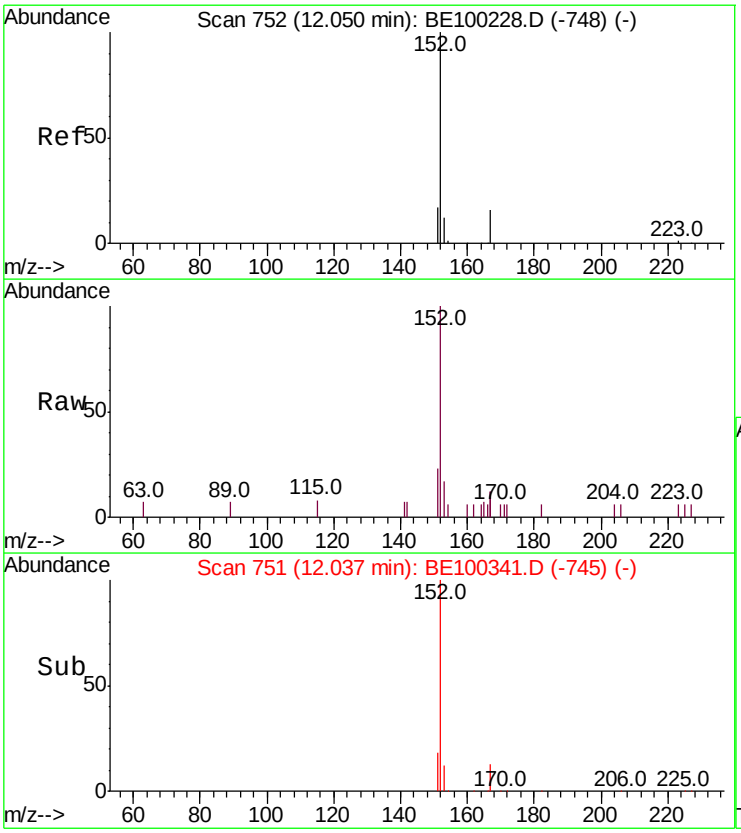

#9
Naphthalene
Concen: 0.108 ng
RT: 10.49 min Scan# 640
Delta R.T. 0.00 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

**Instrument :**
BNA_E
**ClientSampleId :**

Tgt Ion:128 Resp: 2611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 6.2 | 3.0 | 4.6# |
| 127 | 7.1 | 3.5 | 5.3# |

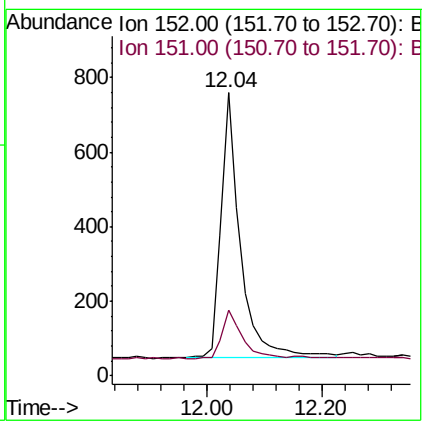


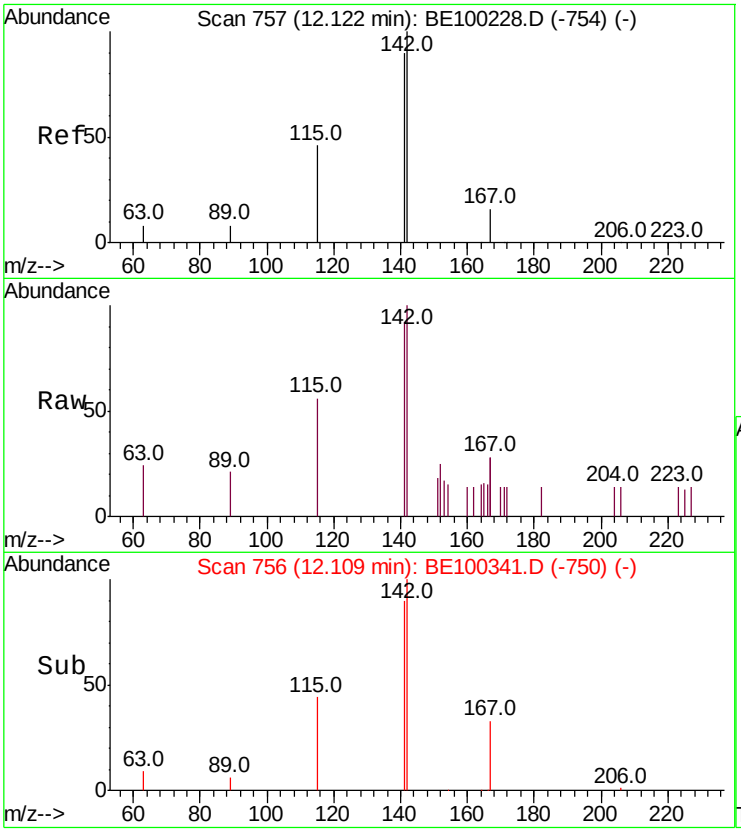




#11
2-Methylnaphthalene-d10
Concen: 0.401 ng
RT: 12.04 min Scan# 751
Delta R.T. -0.01 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

Tgt Ion:152 Resp: 1650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.3 | 15.1 | 22.7 |



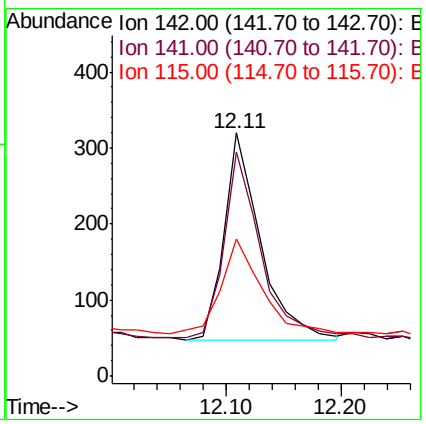


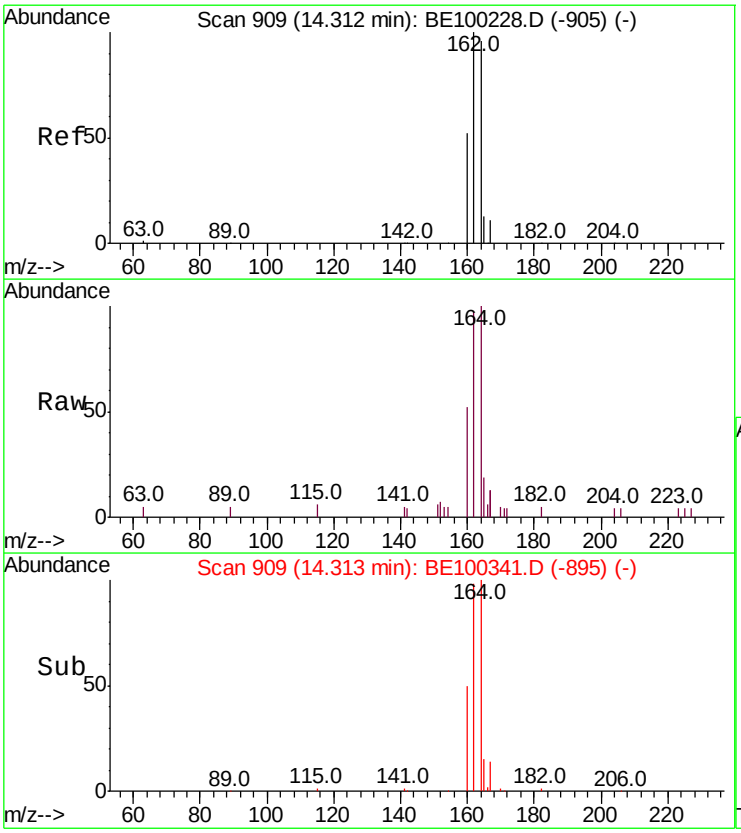

#12
2-Methylnaphthalene
Concen: 0.140 ng
RT: 12.11 min Scan# 756
Delta R.T. -0.01 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

**Instrument :**
BNA_E
**ClientSampleId :**

Tgt Ion:142 Resp: 594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.9 | 72.4 | 108.6 |
| 115 | 56.3 | 40.4 | 60.6 |

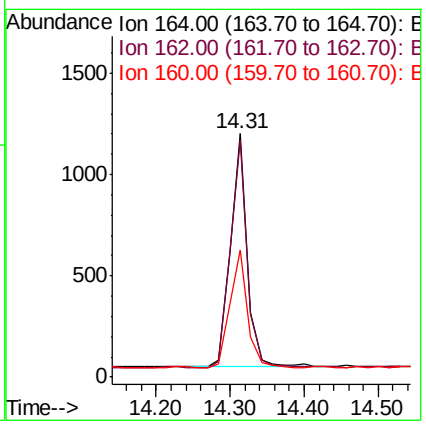


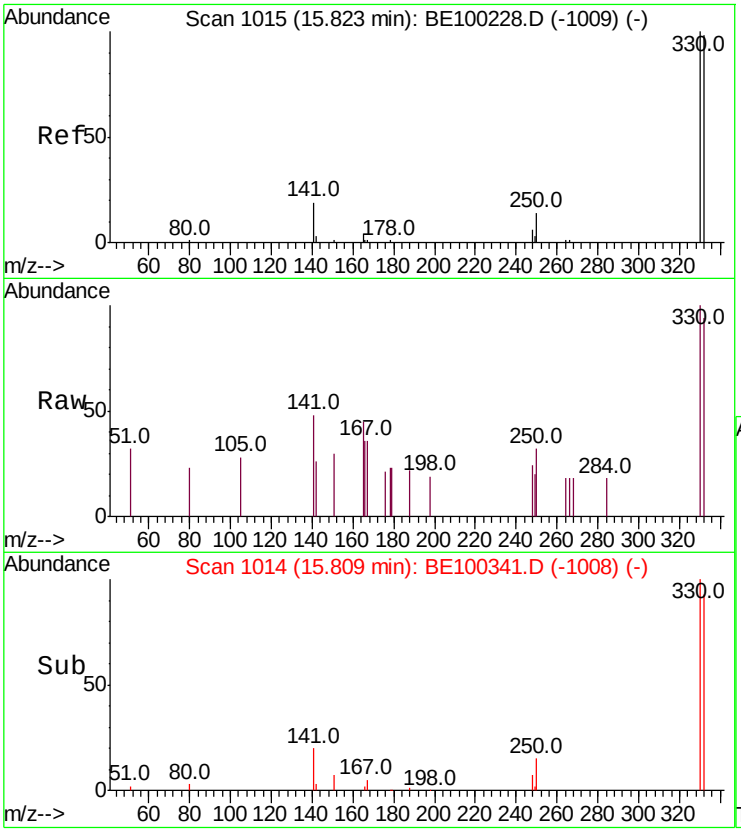




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.31 min Scan# 909
Delta R.T. 0.00 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

Tgt Ion:164 Resp: 1808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 97.3 | 83.4 | 125.0 |
| 160 | 52.1 | 45.0 | 67.6 |



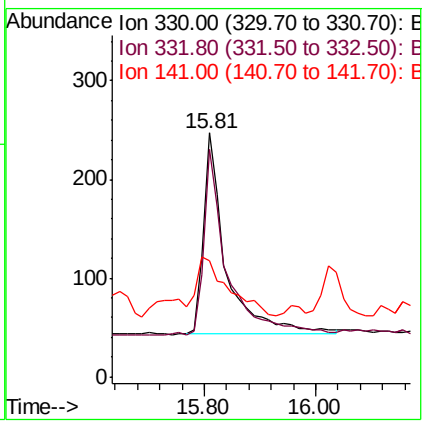


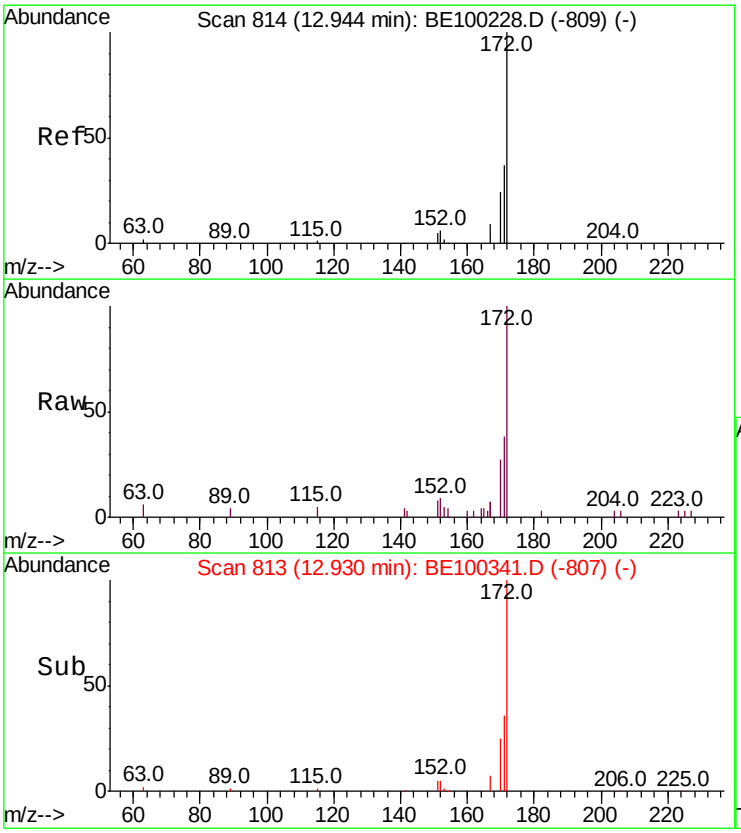

#14
2,4,6-Tribromophenol
Concen: 0.444 ng
RT: 15.81 min Scan# 1014
Delta R.T. -0.01 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

**Instrument :**
BNA_E
**ClientSampleId :**

Tgt Ion:330 Resp: 561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.5 | 77.0 | 115.4 |
| 141 | 41.0 | 22.0 | 33.0# |

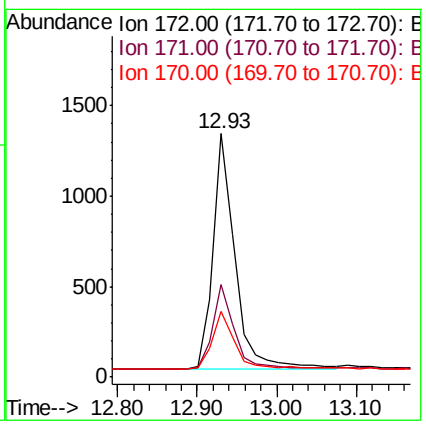


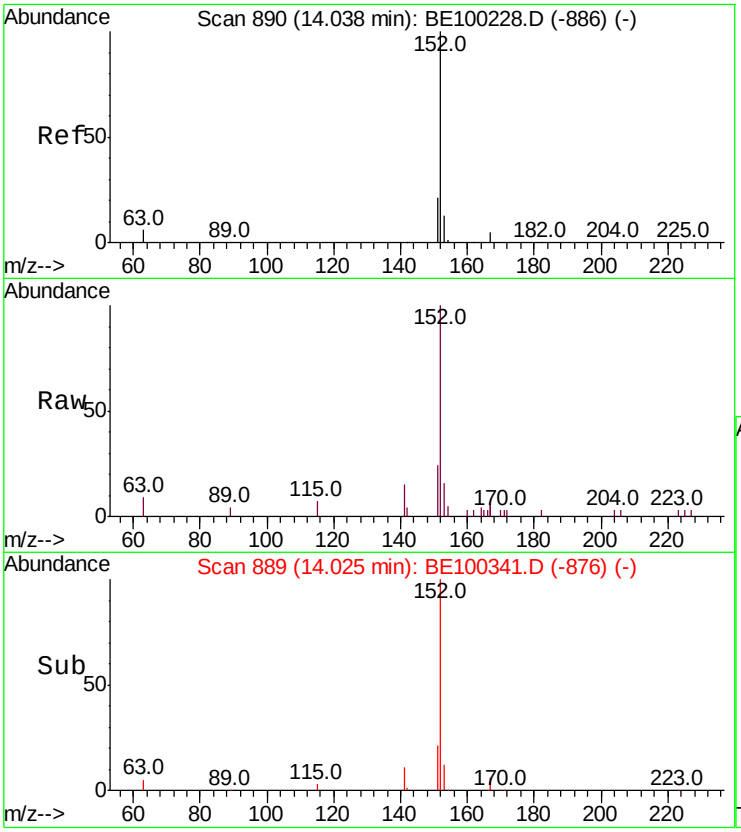




#15
2-Fluorobiphenyl
Concen: 0.357 ng
RT: 12.93 min Scan# 813
Delta R.T. -0.01 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

Tgt Ion:172 Resp: 2513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.9 | 31.9 | 47.9 |
| 170 | 27.2 | 22.2 | 33.2 |



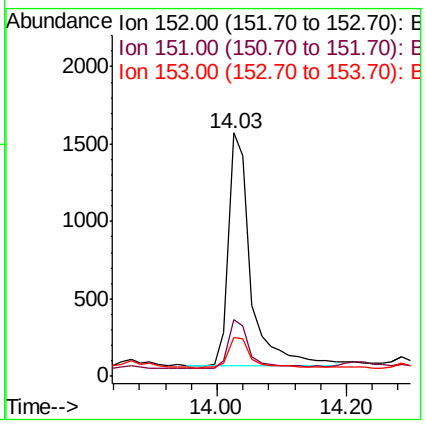


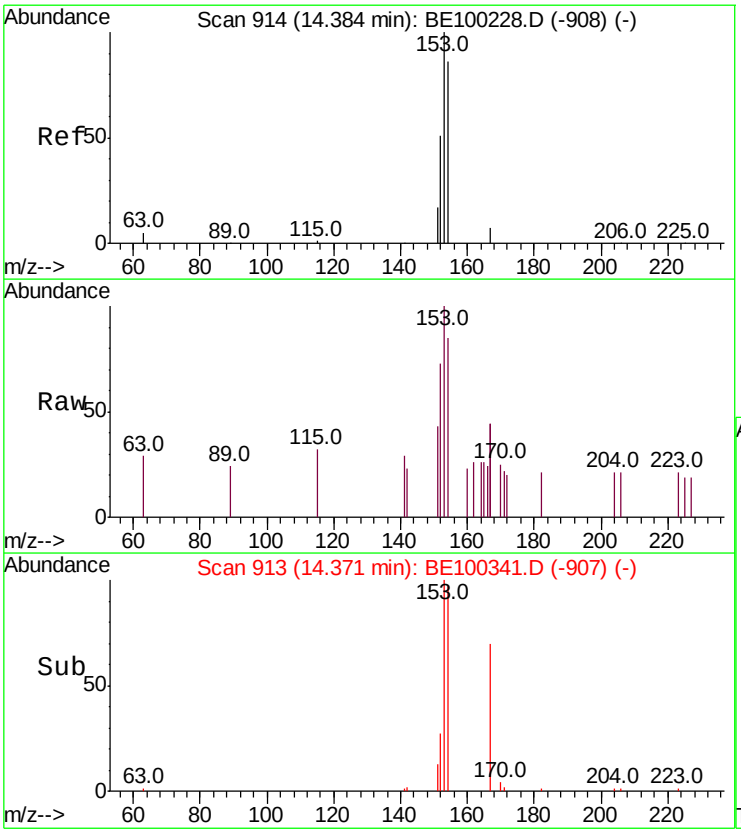

#16
Acenaphthylene
Concen: 0.417 ng
RT: 14.03 min Scan# 889
Delta R.T. -0.01 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

**Instrument :**
BNA_E
**ClientSampleId :**

Tgt Ion:152 Resp: 3621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.3 | 16.6 | 25.0 |
| 153 | 13.6 | 10.5 | 15.7 |

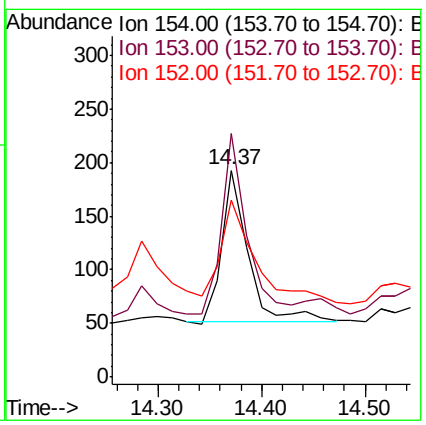


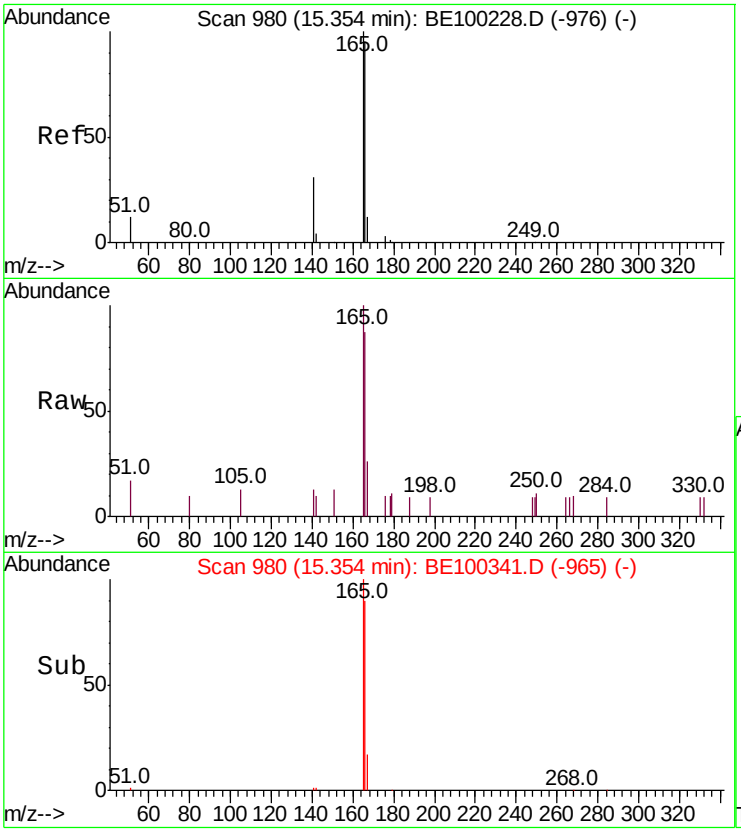




#17
Acenaphthene
Concen: 0.050 ng
RT: 14.37 min Scan# 913
Delta R.T. -0.01 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

Tgt Ion:154 Resp: 245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.3 | 93.4 | 140.2 |
| 152 | 87.3 | 49.4 | 74.2# |



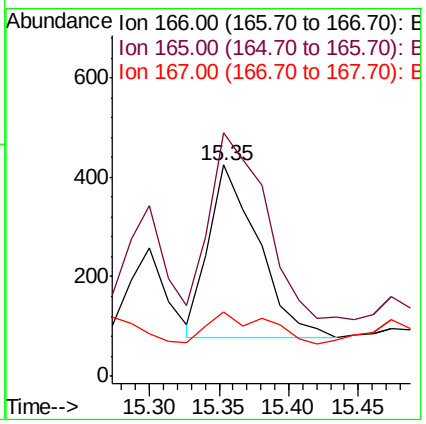


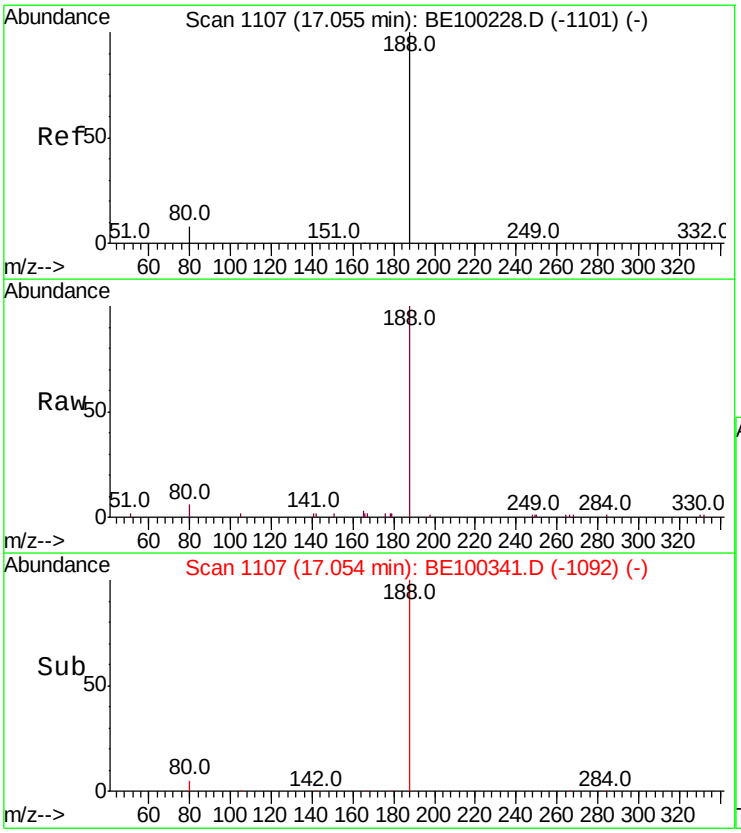

#18
Fluorene
Concen: 0.118 ng
RT: 15.35 min Scan# 980
Delta R.T. -0.00 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

**Instrument :**
BNA_E
**ClientSampleId :**

Tgt Ion:166 Resp: 856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 122.3 | 81.1 | 121.7# |
| 167 | 22.8 | 10.7 | 16.1# |

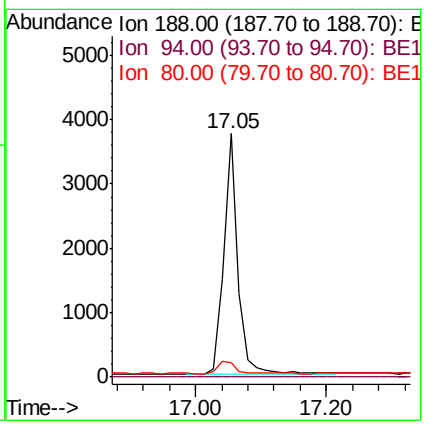


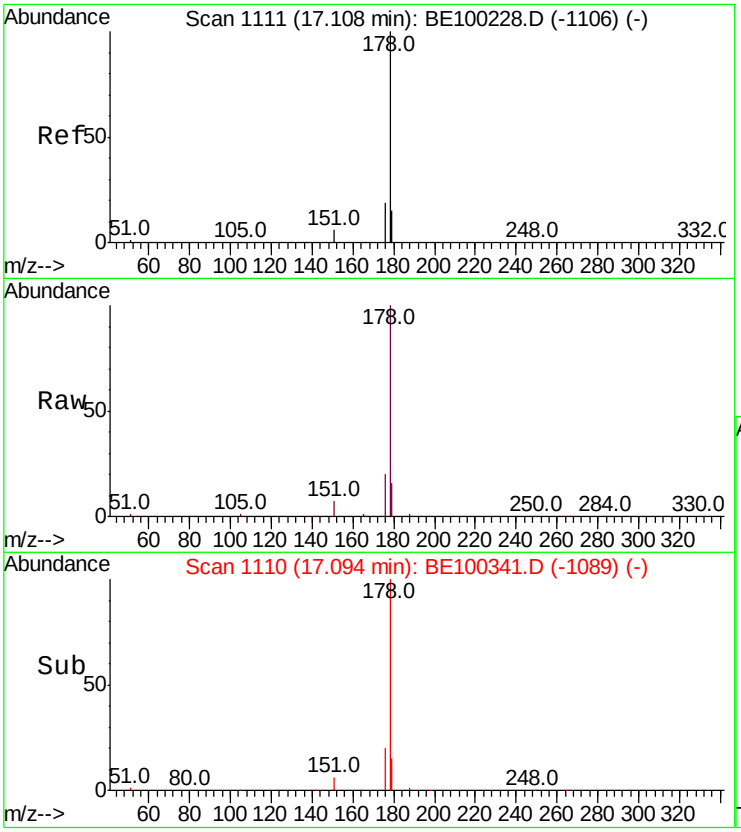




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.05 min Scan# 1107
Delta R.T. -0.00 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

Tgt Ion:188 Resp: 5662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 6.1 | 7.6 | 11.4# |



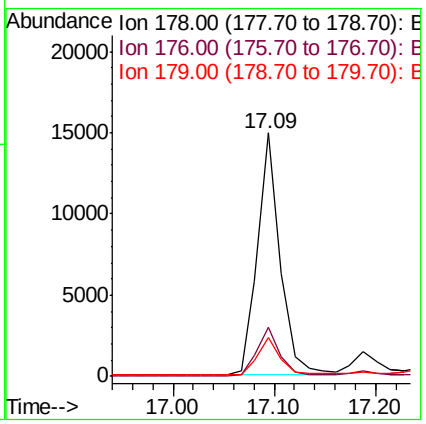


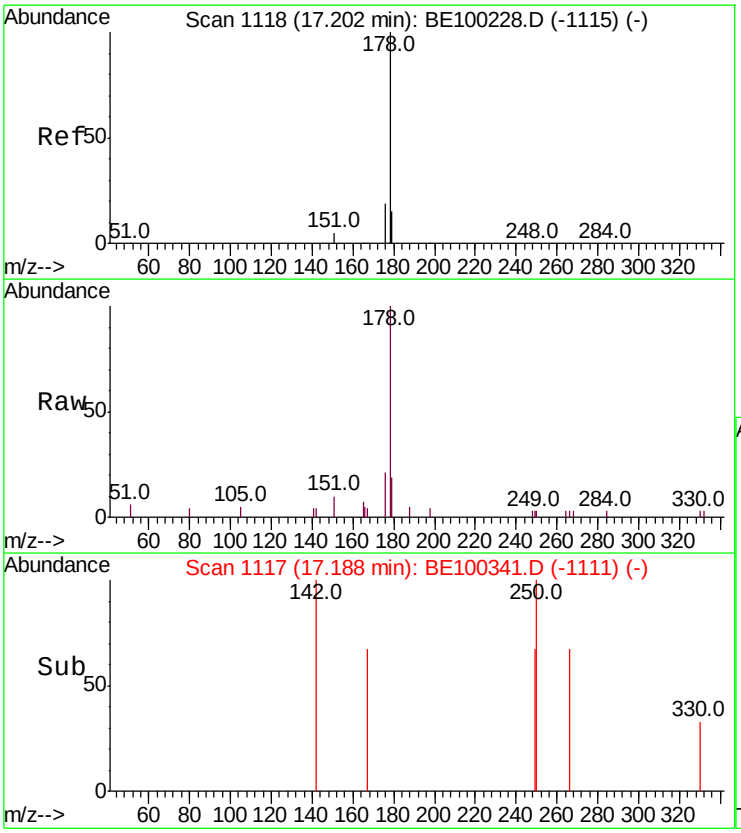

#23
Phenanthrene
Concen: 1.715 ng
RT: 17.09 min Scan# 1110
Delta R.T. -0.01 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

**Instrument :**
BNA_E
**ClientSampleId :**

Tgt Ion:178 Resp: 23529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.7 | 15.9 | 23.9 |
| 179 | 16.1 | 12.2 | 18.2 |

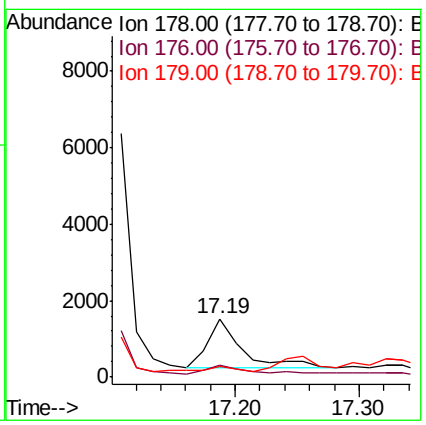


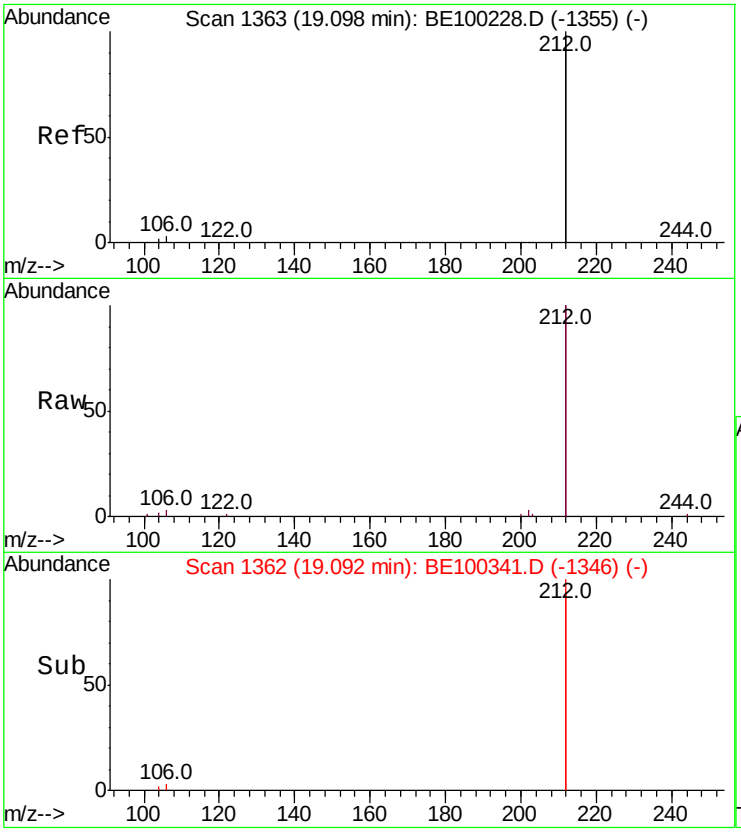




#24
Anthracene
Concen: 0.195 ng
RT: 17.19 min Scan# 1117
Delta R.T. -0.01 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

Tgt Ion:178 Resp: 2412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 15.3 | 22.9 |
| 179 | 6.5 | 12.2 | 18.2# |



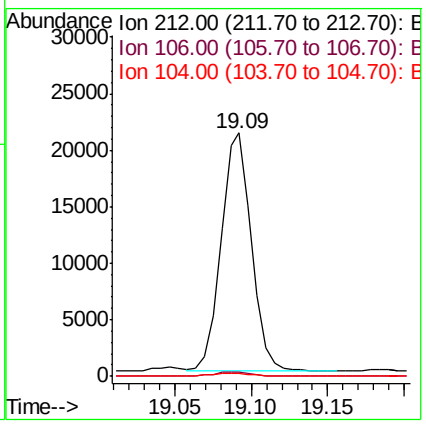


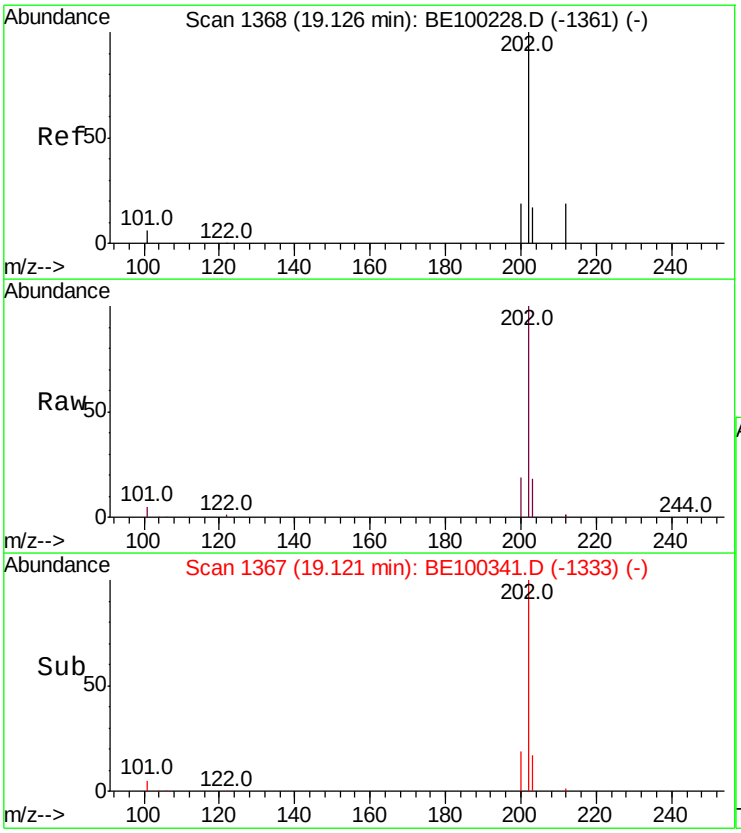

#25
Fluoranthene-d10
Concen: 0.357 ng
RT: 19.09 min Scan# 1362
Delta R.T. -0.01 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

**Instrument :**
BNA_E
**ClientSampleId :**

Tgt Ion:212 Resp: 29328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 1.5 | 1.3 | 1.9 |
| 104 | 0.9 | 0.8 | 1.2 |

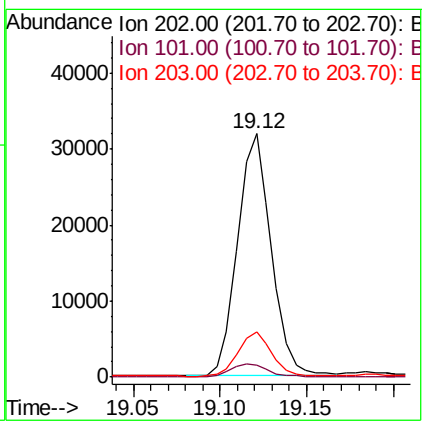


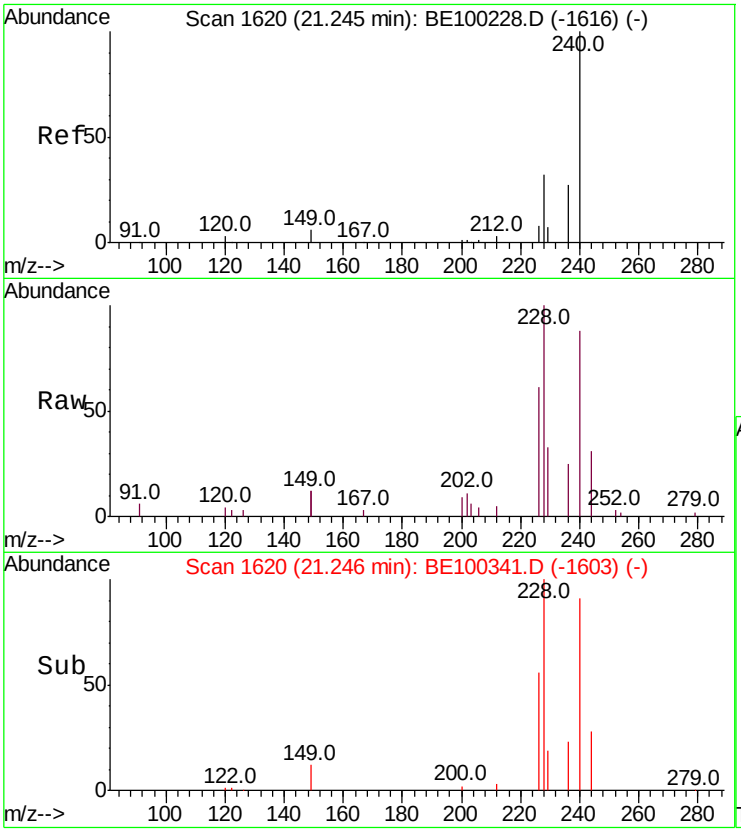




#26
Fluoranthene
Concen: 1.978 ng
RT: 19.12 min Scan# 1367
Delta R.T. -0.01 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

Tgt Ion:202 Resp: 43240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 5.6 | 4.6 | 7.0 |
| 203 | 18.0 | 13.7 | 20.5 |



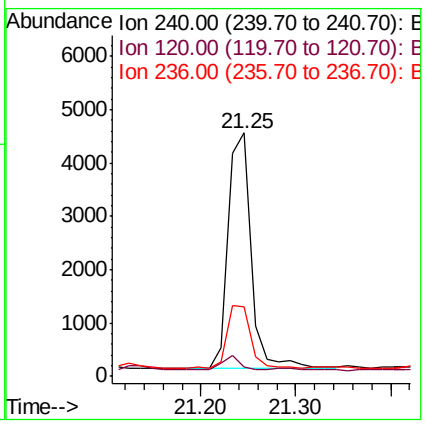


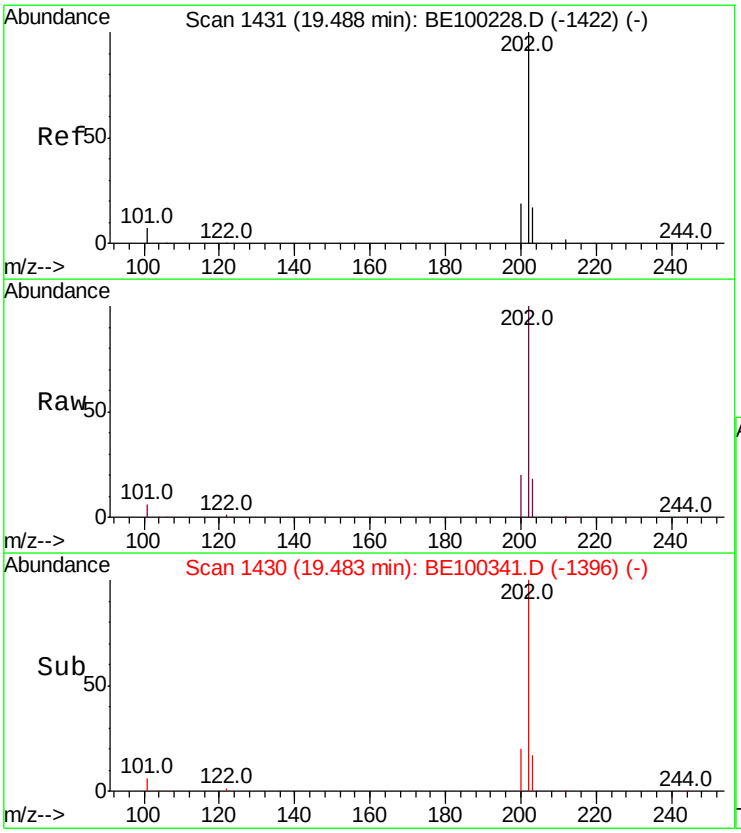

#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.25 min Scan# 1620
Delta R.T. 0.00 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

**Instrument :**
BNA_E
**ClientSampleId :**

Tgt Ion:240 Resp: 7466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 4.0 | 3.3 | 4.9 |
| 236 | 28.6 | 22.6 | 34.0 |

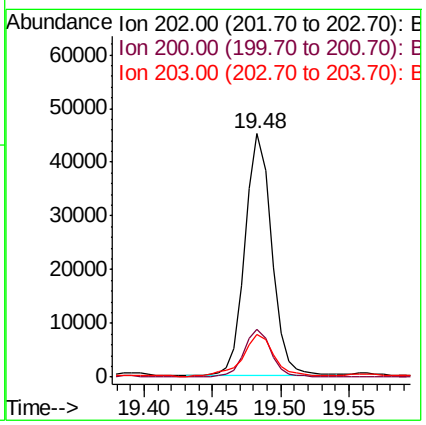


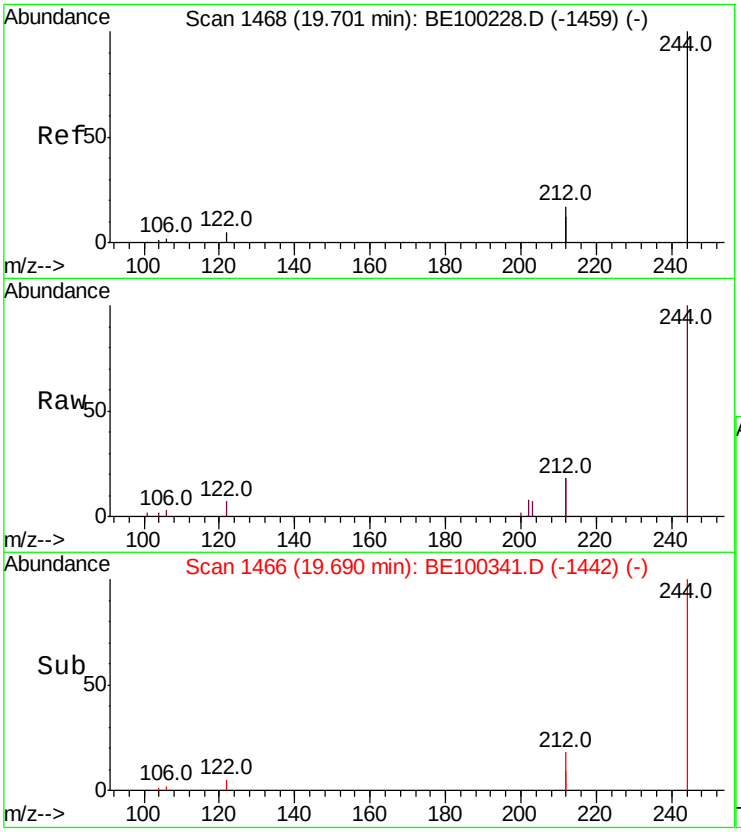




#28
Pyrene
Concen: 3.081 ng
RT: 19.48 min Scan# 1430
Delta R.T. -0.01 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

Tgt Ion:202 Resp: 60891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 19.7 | 15.6 | 23.4 |
| 203 | 20.0 | 14.0 | 21.0 |



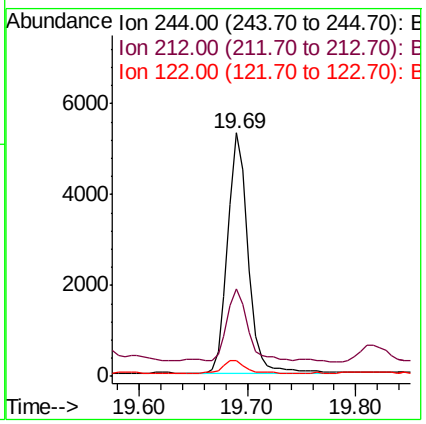


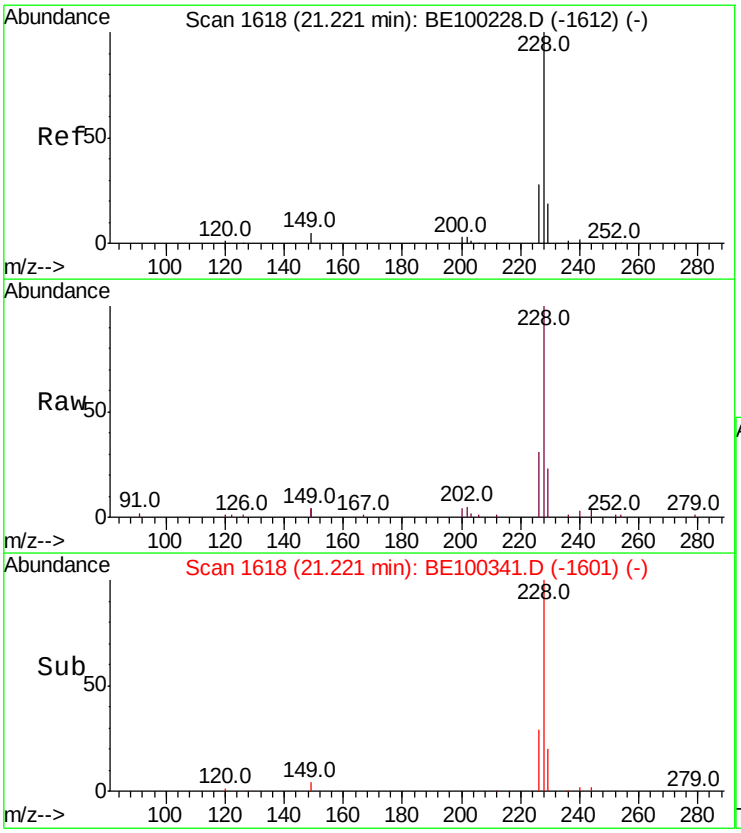

#29
Terphenyl-d14
Concen: 0.444 ng
RT: 19.69 min Scan# 1466
Delta R.T. -0.01 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

**Instrument :**
BNA_E
**ClientSampleId :**

Tgt Ion:244 Resp: 6878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 36.1 | 27.3 | 40.9 |
| 122 | 6.6 | 4.7 | 7.1 |

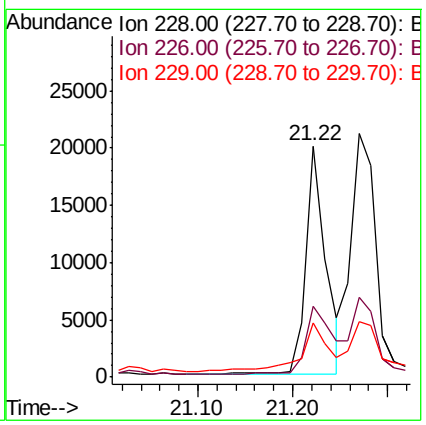


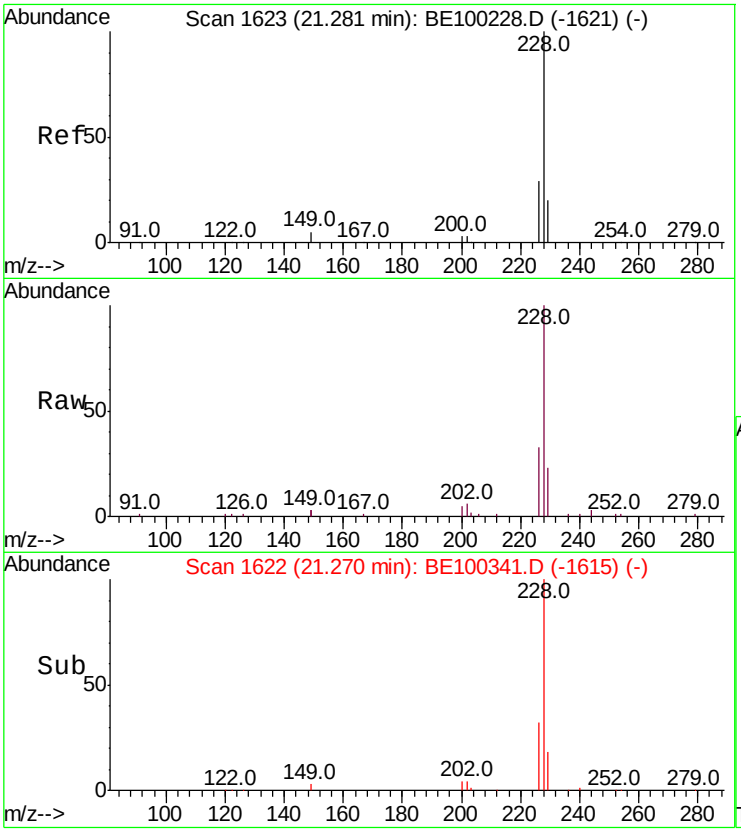




#30
Benzo(a)anthracene
Concen: 1.201 ng
RT: 21.22 min Scan# 1618
Delta R.T. 0.00 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

Tgt Ion:228 Resp: 29483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.5 | 23.2 | 34.8 |
| 229 | 23.3 | 15.7 | 23.5 |



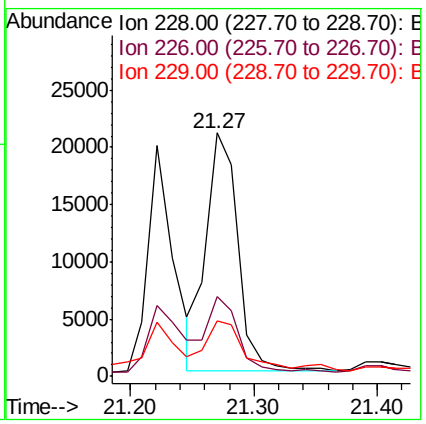


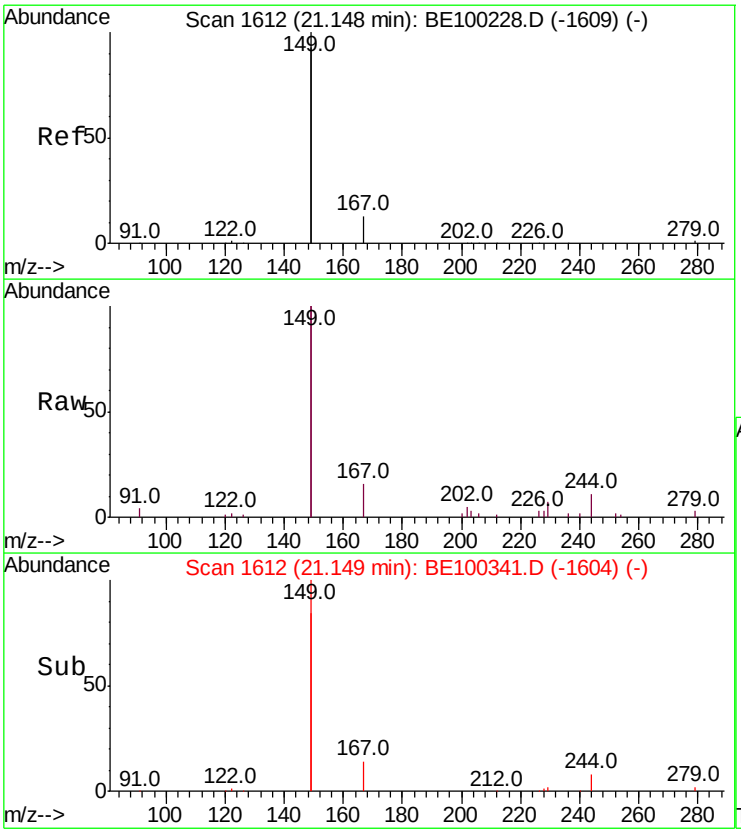

#31
Chrysene
Concen: 1.512 ng
RT: 21.27 min Scan# 1622
Delta R.T. -0.01 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

**Instrument :**
BNA_E
**ClientSampleId :**

Tgt Ion:228 Resp: 37273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 33.0 | 23.9 | 35.9 |
| 229 | 22.7 | 16.5 | 24.7 |

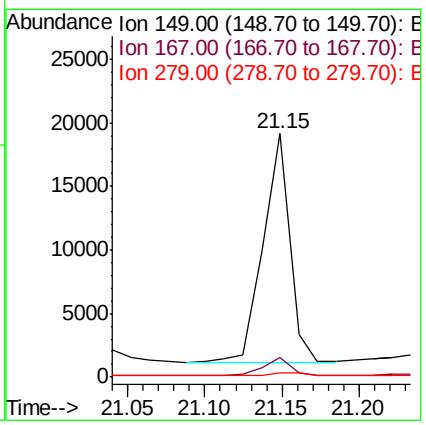


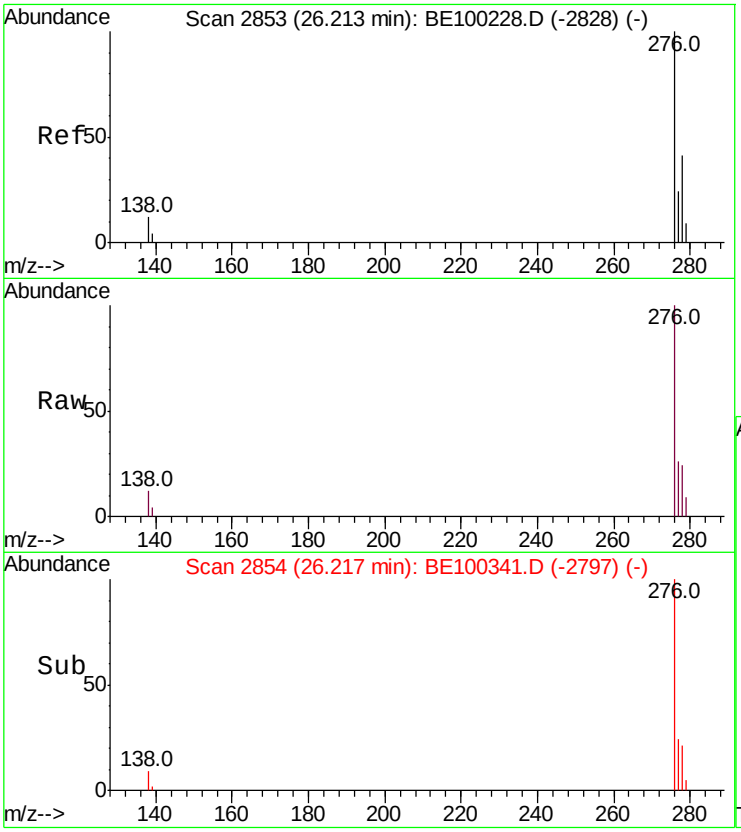




#32
Bis(2-ethylhexyl)phthalate
Concen: 0.568 ng
RT: 21.15 min Scan# 1612
Delta R.T. 0.00 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

Tgt Ion:149 Resp: 21694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 7.4 | 5.8 | 8.8 |
| 279 | 1.6 | 1.1 | 1.7 |



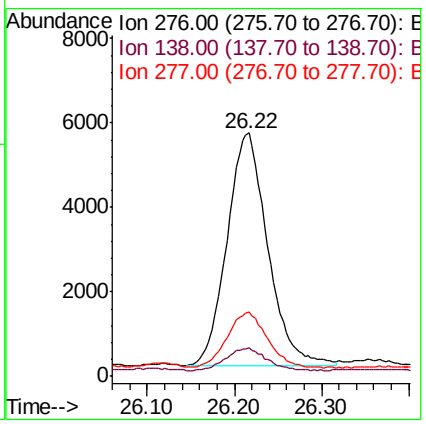


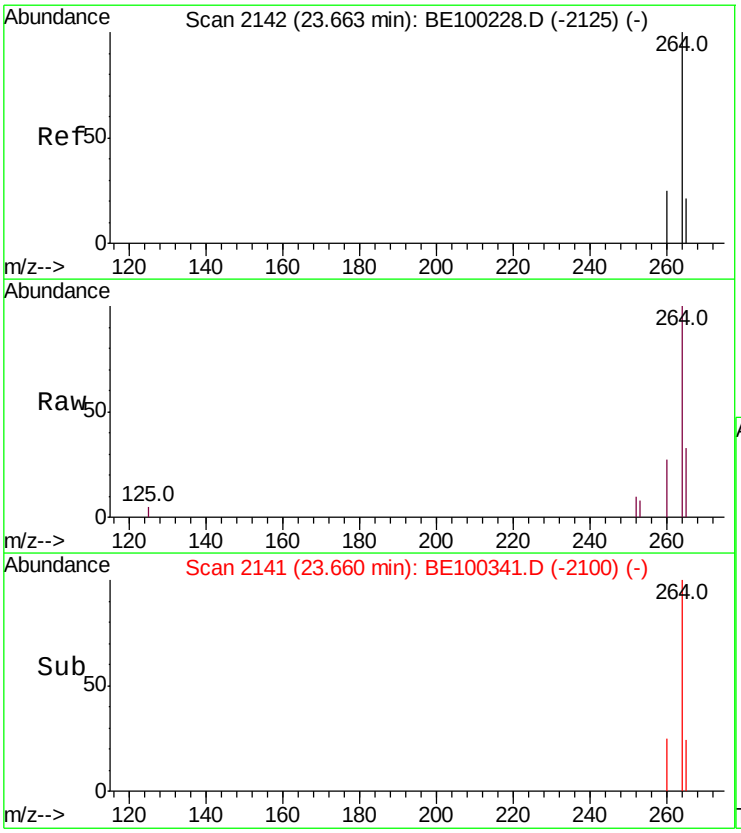

#33
Indeno(1,2,3-cd)pyrene
Concen: 0.548 ng
RT: 26.22 min Scan# 2854
Delta R.T. 0.00 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

**Instrument :**
BNA_E
**ClientSampleId :**

Tgt Ion:276 Resp: 17869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 9.4 | 9.4 | 14.0 |
| 277 | 24.2 | 19.2 | 28.8 |

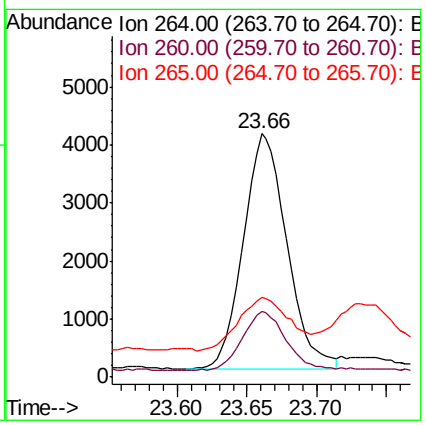


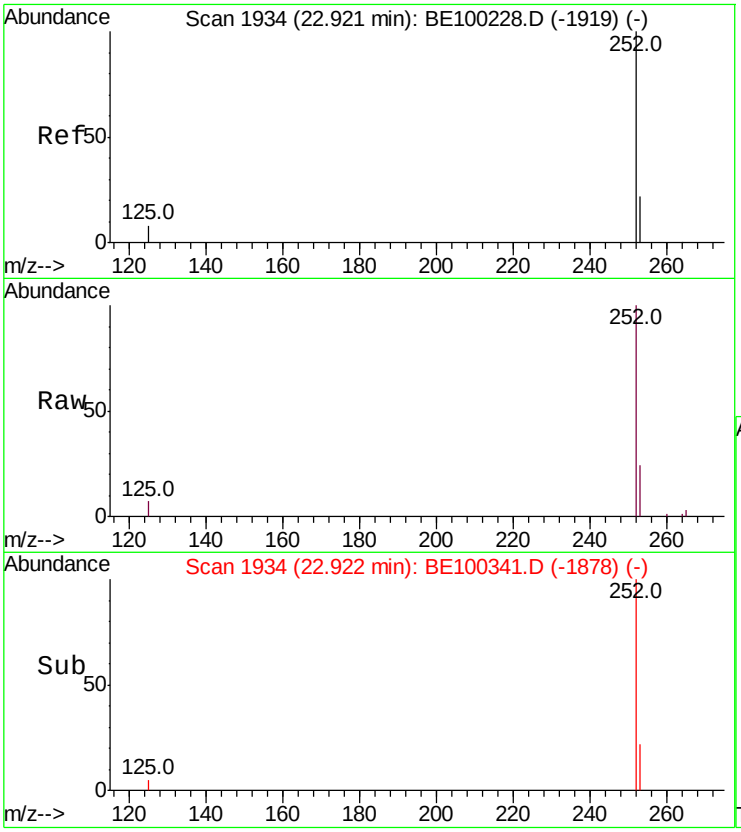




#34
Perylene-d12
Concen: 0.400 ng
RT: 23.66 min Scan# 2141
Delta R.T. -0.00 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

Tgt Ion:264 Resp: 8777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.2 | 20.8 | 31.2 |
| 265 | 32.9 | 21.8 | 32.6# |



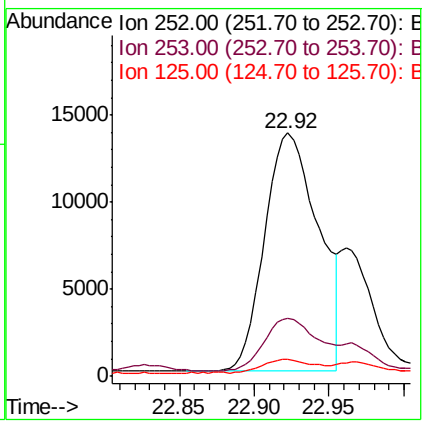


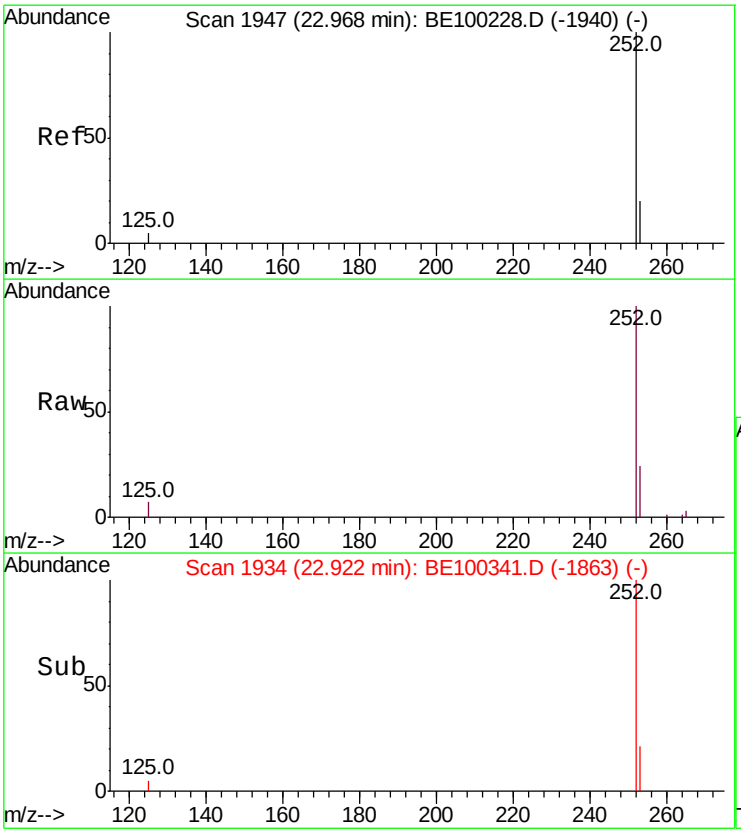

#35
Benzo(b)fluoranthene
Concen: 1.445 ng
RT: 22.92 min Scan# 1934
Delta R.T. 0.00 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

**Instrument :**
BNA_E
**ClientSampleId :**

Tgt Ion:252 Resp: 34392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.7 | 19.2 | 28.8 |
| 125 | 6.8 | 7.4 | 11.0# |

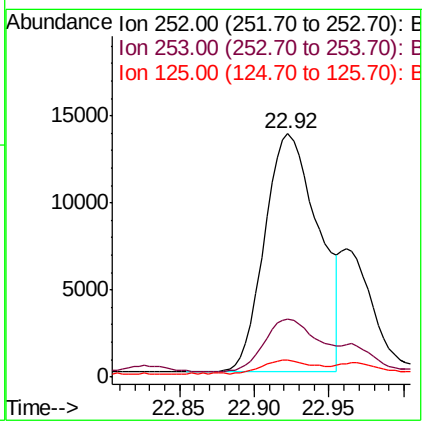


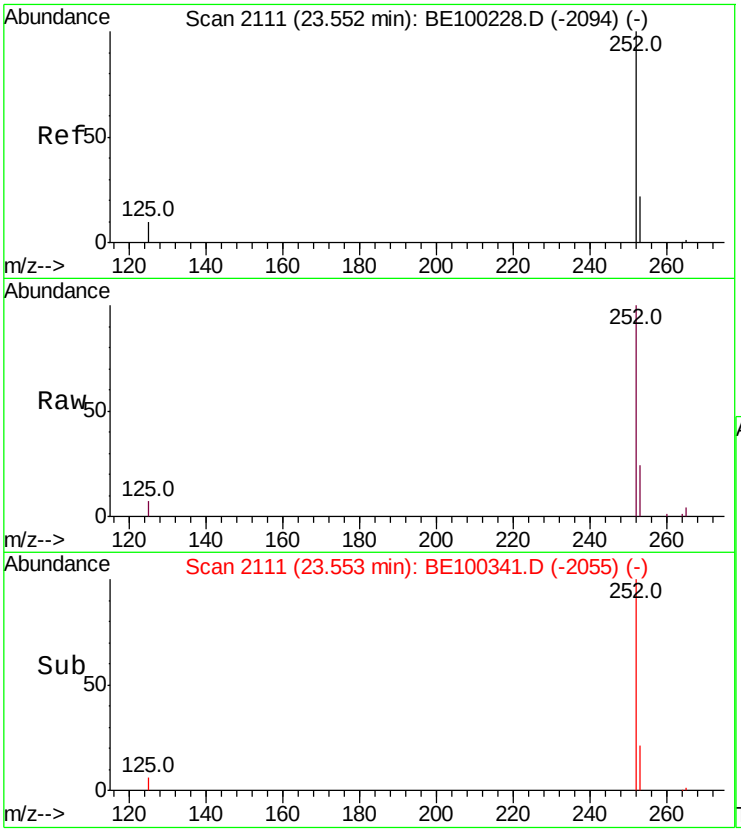




#36
Benzo(k)fluoranthene
Concen: 1.295 ng
RT: 22.92 min Scan# 1934
Delta R.T. -0.05 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

Tgt Ion:252 Resp: 34392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.7 | 17.9 | 26.9 |
| 125 | 6.8 | 5.0 | 7.4 |



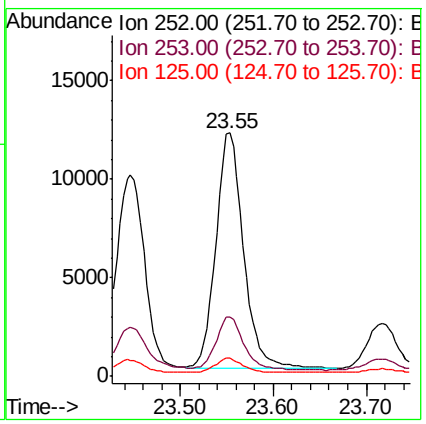


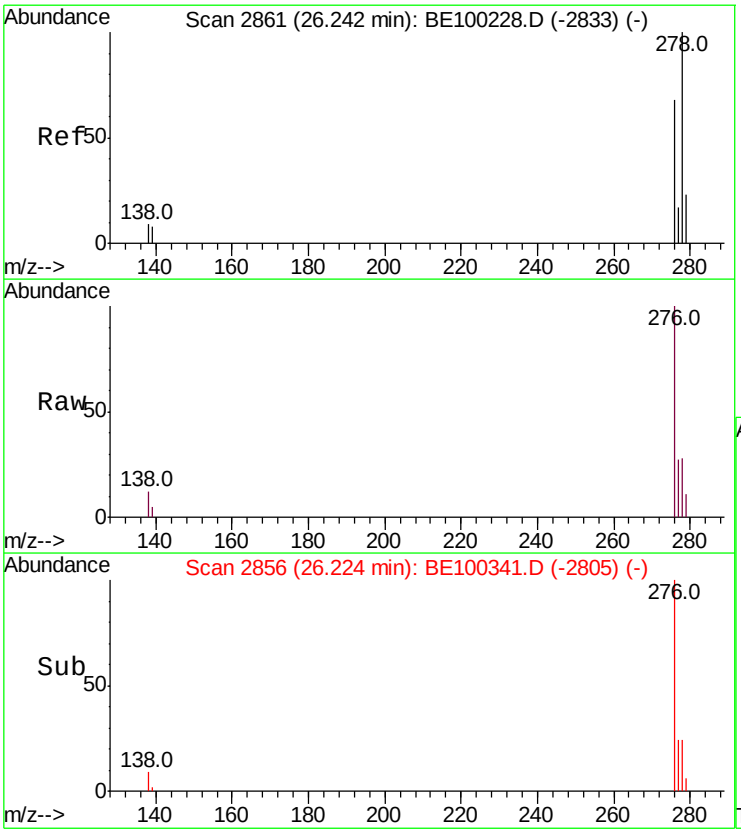

#37
Benzo(a)pyrene
Concen: 1.030 ng
RT: 23.55 min Scan# 2111
Delta R.T. 0.00 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

**Instrument :**
BNA_E
**ClientSampleId :**

Tgt Ion:252 Resp: 24577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.4 | 19.6 | 29.4 |
| 125 | 7.3 | 9.0 | 13.6# |

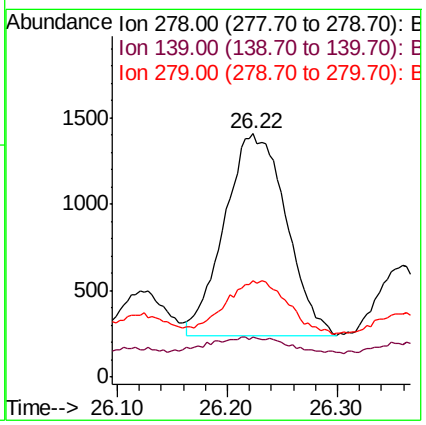


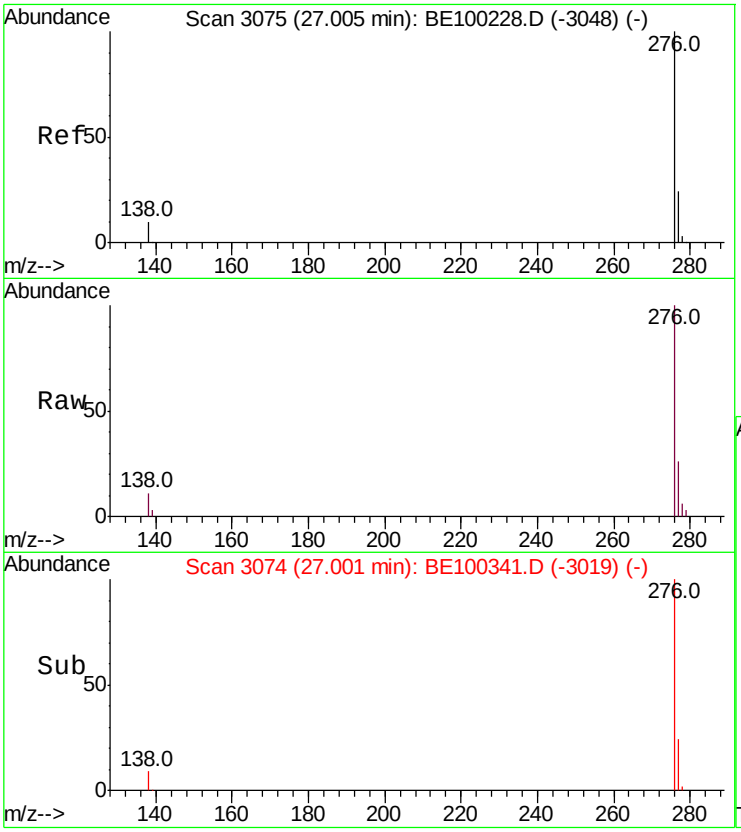




#38
Dibenzo(a,h)anthracene
Concen: 0.183 ng
RT: 26.22 min Scan# 2856
Delta R.T. -0.02 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

Tgt Ion:278 Resp: 4555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 16.3 | 8.2 | 12.2# |
| 279 | 39.5 | 20.3 | 30.5# |






#39
Benzo(g,h,i)perylene
Concen: 0.820 ng
RT: 27.00 min Scan# 3074
Delta R.T. -0.00 min
Lab File: BE100341.D
Acq: 3 Jul 2019 22:42

**Instrument :**
BNA_E
**ClientSampleId :**

Tgt Ion:276 Resp: 20977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.8 | 20.2 | 30.2 |
| 138 | 11.1 | 9.0 | 13.6 |