Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081717\
Data File : BF097823.D
Acq On : 18 Aug 2017 9:17
Operator : SJ/JU
Sample : I4797-06 2X
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
E2-K9-BASE

**Manual Integrations APPROVED**
Sohil
8/18/2017 7:02:43 PM

Quant Time: Aug 18 14:05:05 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 15 13:25:08 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.77 | 152 | 142700 | 20.00 | ng | | -0.01 |
| 21) Naphthalene-d8 | 8.06 | 136 | 508438 | 20.00 | ng | | -0.01 |
| 38) Acenaphthene-d10 | 9.81 | 164 | 183272 | 20.00 | ng | | -0.01 |
| 63) Phenanthrene-d10 | 11.30 | 188 | 317499 | 20.00 | ng | | 0.00 |
| 75) Chrysene-d12 | 13.93 | 240 | 287825 | 20.00 | ng | | 0.00 |
| 86) Perylene-d12 | 15.37 | 264 | 197080 | 20.00 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.37 | 112 | 491919 | 52.43 | ng | | -0.01 |
| 7) Phenol-d6 | 6.40 | 99 | 628905 | 49.34 | ng | | -0.01 |
| 23) Nitrobenzene-d5 | 7.33 | 82 | 365116 | 39.01 | ng | | -0.02 |
| 41) 2,4,6-Tribromophenol | 10.60 | 330 | 70391 | 44.27 | ng | | -0.01 |
| 44) 2-Fluorobiphenyl | 9.13 | 172 | 478290 | 38.34 | ng | | -0.01 |
| 78) Terphenyl-d14 | 12.88 | 244 | 359197 | 26.02 | ng | | -0.01 |
| **Target Compounds** | | | | | | | Qvalue |
| 11) bis(2-Chloroethyl)ether | 6.51 | 93 | 23112 | 2.054 | ng | | 97 |
| 31) Naphthalene | 8.08 | 128 | 82824 | 3.138 | ng | | 98 |
| 37) 2-Methylnaphthalene | 8.77 | 142 | 40830 | 2.523 | ng | | 96 |
| 49) Dimethylphthalate | 9.53 | 163 | 66031 | 4.929 | ng | # | 98 |
| 51) Acenaphthene | 9.85 | 154 | 25445 | 2.081 | ng | | 98 |
| 57) Fluorene | 10.36 | 166 | 25633 | 2.023 | ng | # | 92 |
| 67) Hexachlorobenzene | 10.90 | 284 | 15313 | 4.557 | ng | # | 84 |
| 70) Phenanthrene | 11.32 | 178 | 369819 | 21.859 | ng | | 99 |
| 71) Anthracene | 11.37 | 178 | 98074 | 5.715 | ng | | 100 |
| 72) Carbazole | 11.52 | 167 | 35517 | 2.180 | ng | | 96 |
| 74) Fluoranthene | 12.51 | 202 | 608002 | 34.430 | ng | | 99 |
| 77) Pyrene | 12.74 | 202 | 630370 | 26.778 | ng | | 99 |
| 80) Benzo(a)anthracene | 13.92 | 228 | 310453 | 17.997 | ng | | 97 |
| 82) Chrysene | 13.96 | 228 | 289297 | 16.858 | ng | | 96 |
| 85) Indeno(1,2,3-cd)pyrene | 16.76 | 276 | 157119m | 12.446 | ng | | |
| 87) Benzo(b)fluoranthene | 14.96 | 252 | 337875m | 27.198 | ng | | |
| 88) Benzo(k)fluoranthene | 14.98 | 252 | 87916m | 7.533 | ng | | |
| 89) Benzo(a)pyrene | 15.30 | 252 | 225191 | 20.477 | ng | | 98 |
| 90) Dibenzo(a,h)anthracene | 16.77 | 278 | 35817m | 4.000 | ng | | |
| 91) Benzo(g,h,i)perylene | 17.19 | 276 | 151504 | 16.218 | ng | | 94 |

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

Quantitation Report (QT Reviewed)

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Acq On : 18 Aug 2017 9:17
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Sample : I4797-06 2X
Misc :
ALS Vial : 37 Sample Multiplier: 1

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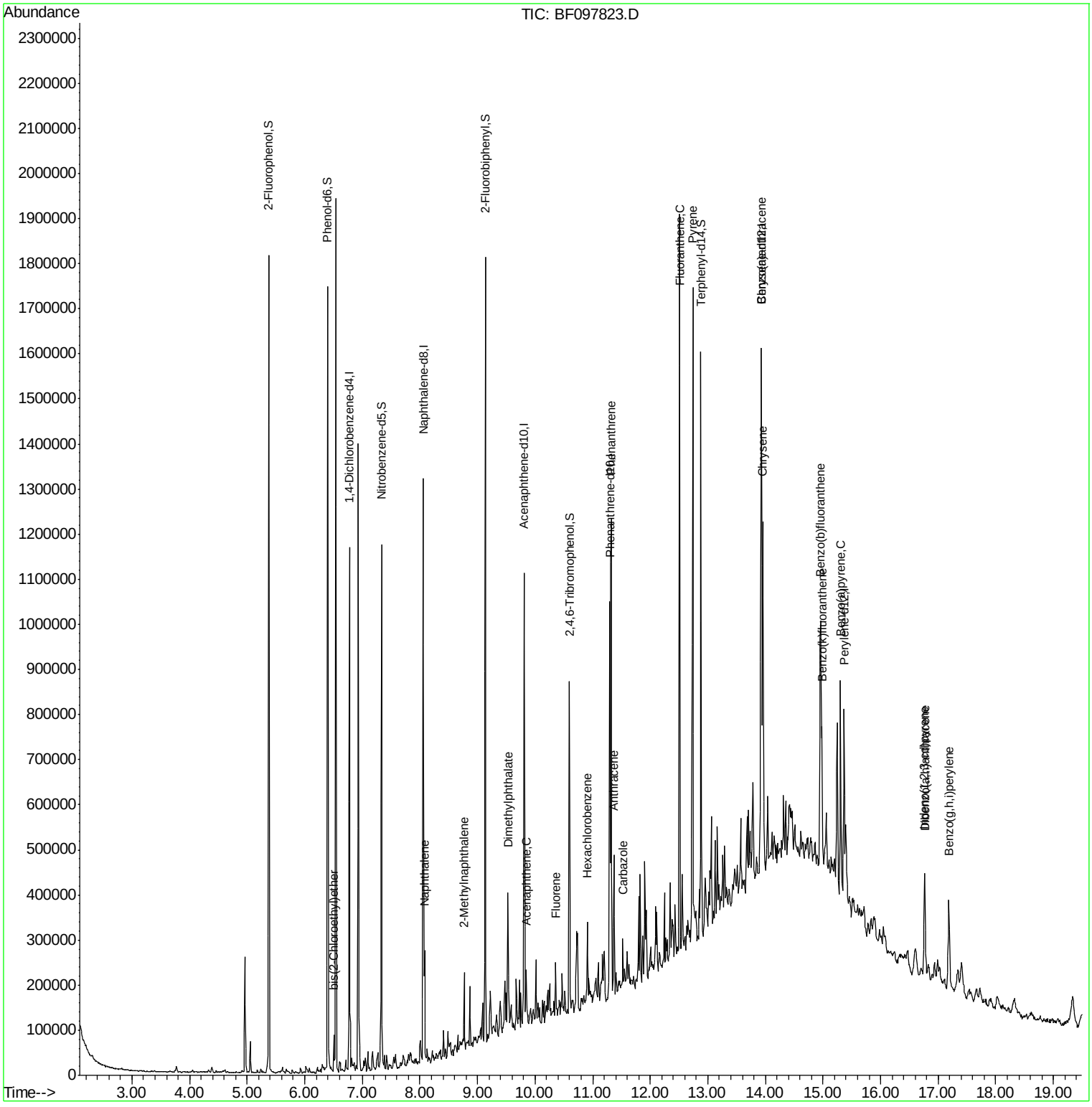
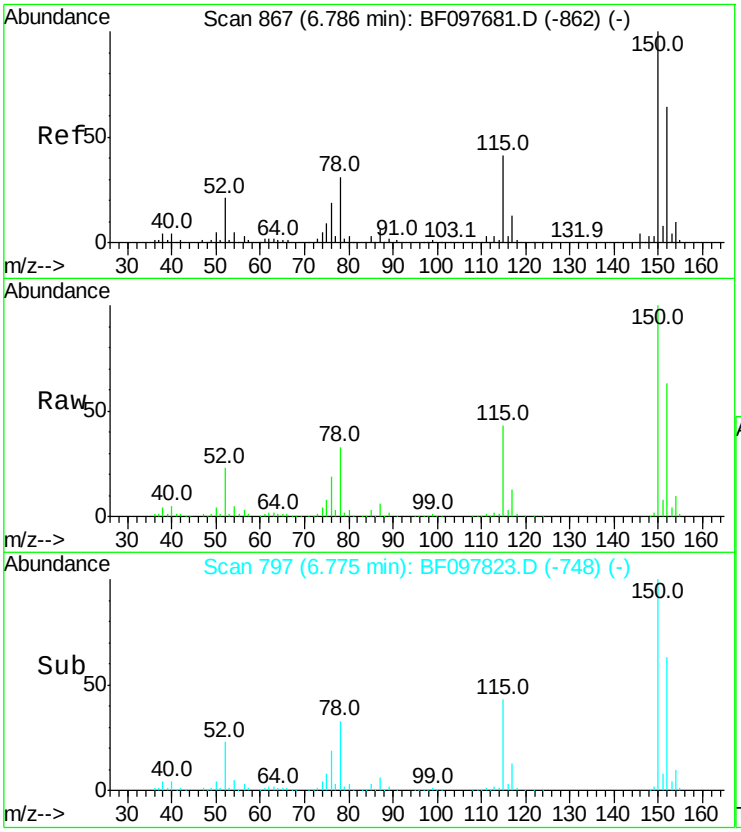
**Instrument :**
BNA_F
**ClientSampleId :**
E2-K9-BASE

**Manual Integrations APPROVED**
Sohil
8/18/2017 7:02:43 PM

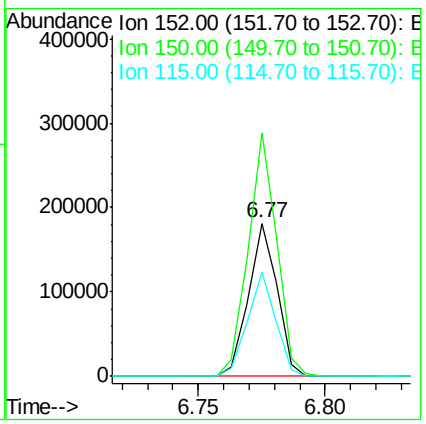





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.77 min Scan# 797
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:152 Resp: 142700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 158.8 | 126.2 | 189.2 |
| 115 | 67.8 | 52.2 | 78.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-K9-BASE

**Manual Integrations APPROVED**
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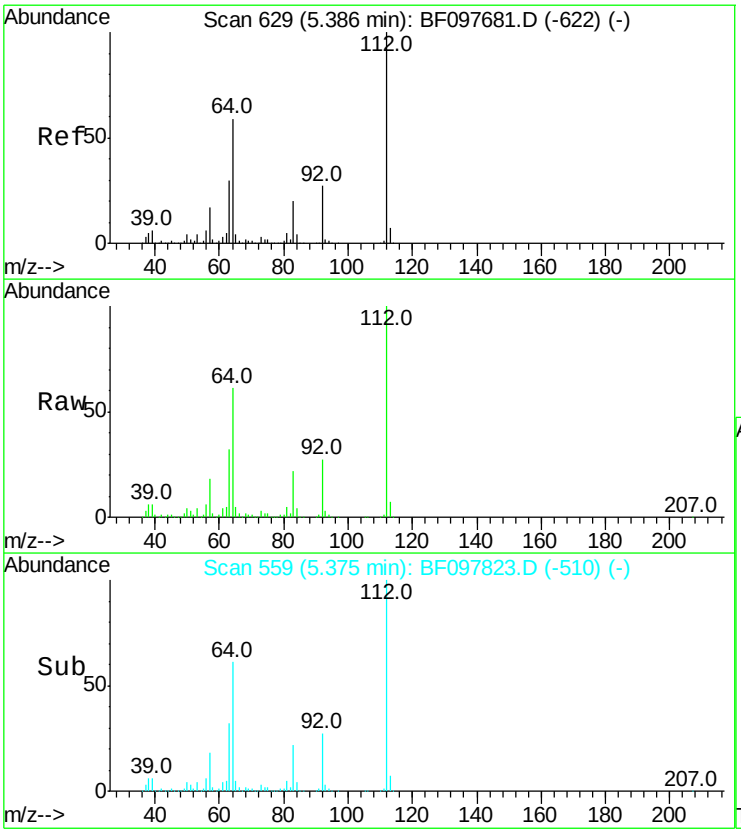
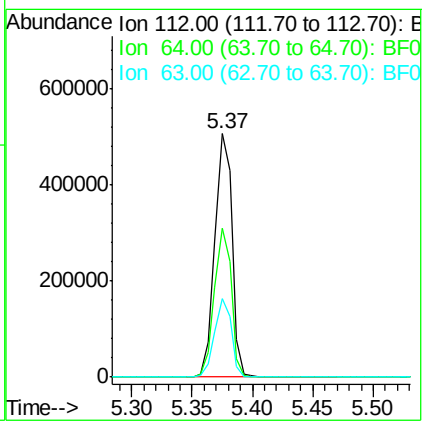
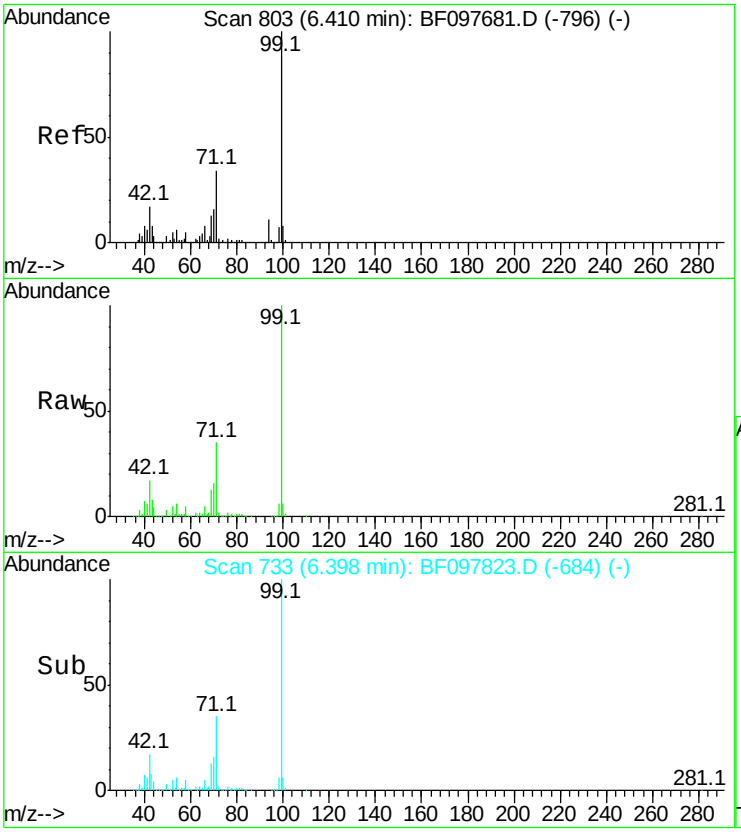



#5
2-Fluorophenol
Concen: 52.435 ng
RT: 5.37 min Scan# 559
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:112 Resp: 491919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 61.3 | 46.0 | 69.0 |
| 63 | 32.1 | 23.4 | 35.0 |

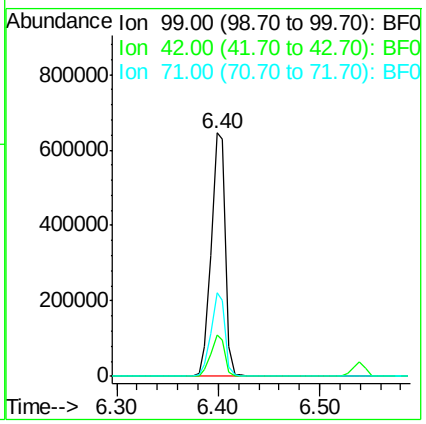





#7
Phenol-d6
Concen: 49.338 ng
RT: 6.40 min Scan# 733
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion: 99 Resp: 628905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 17.0 | 13.5 | 20.3 |
| 71 | 34.5 | 24.5 | 36.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-K9-BASE

**Manual Integrations APPROVED**
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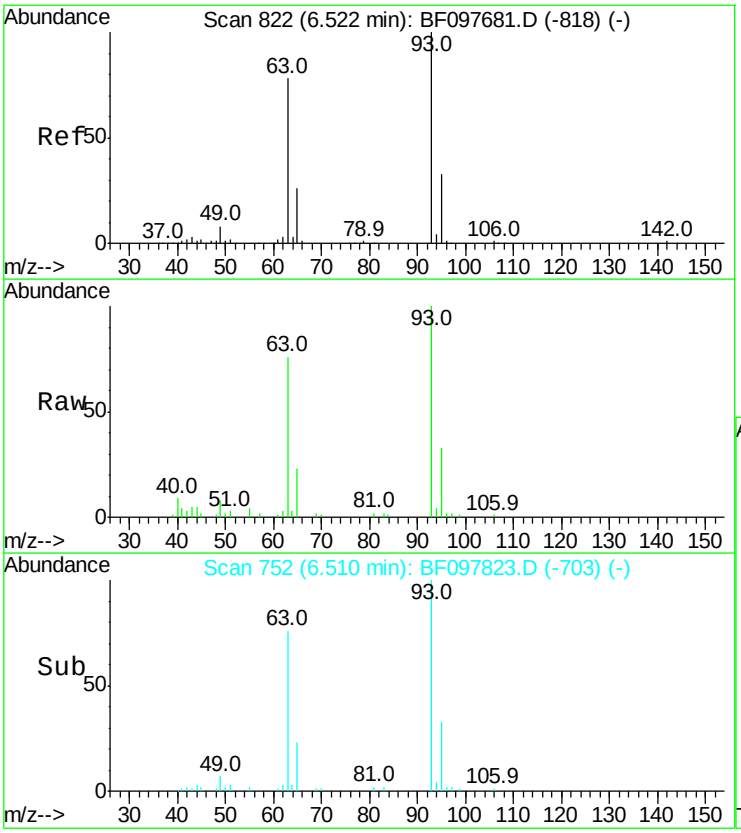
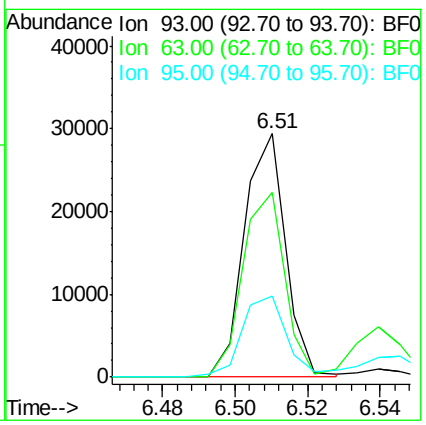
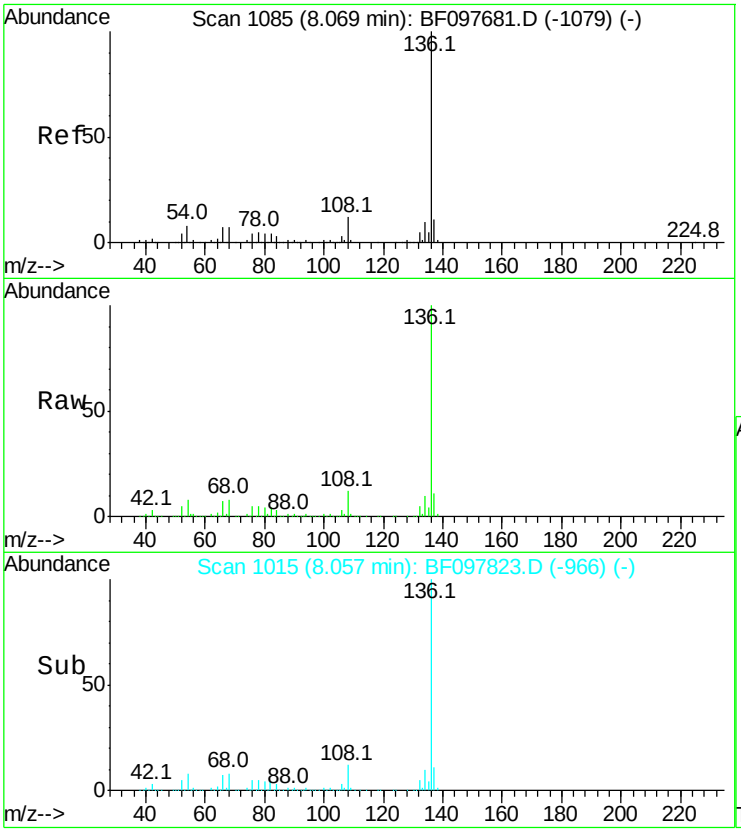



#11
bis(2-Chloroethyl)ether
Concen: 2.054 ng
RT: 6.51 min Scan# 752
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion: 93 Resp: 23112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 76.0 | 59.2 | 99.2 |
| 95 | 33.1 | 12.8 | 52.8 |

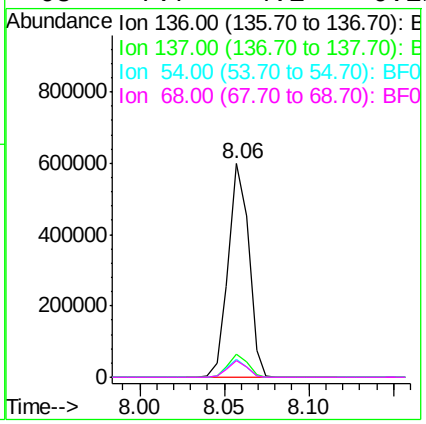





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.06 min Scan# 1015
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:136 Resp: 508438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 8.5 | 12.7 |
| 54 | 8.2 | 4.9 | 7.3# |
| 68 | 7.7 | 4.1 | 6.1# |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-K9-BASE

**Manual Integrations APPROVED**
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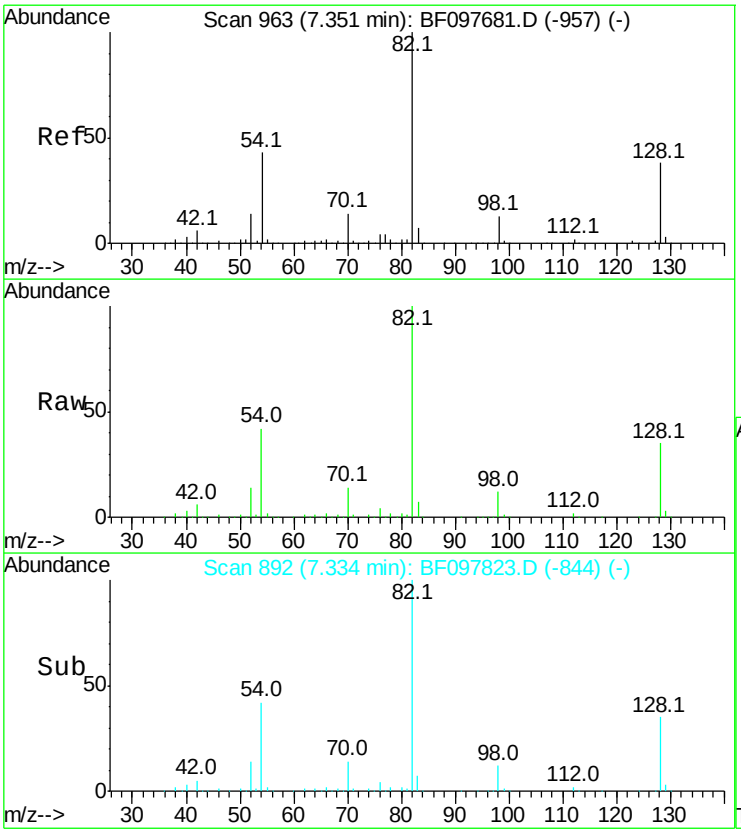
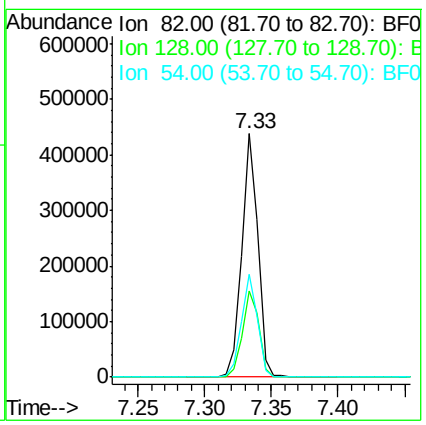
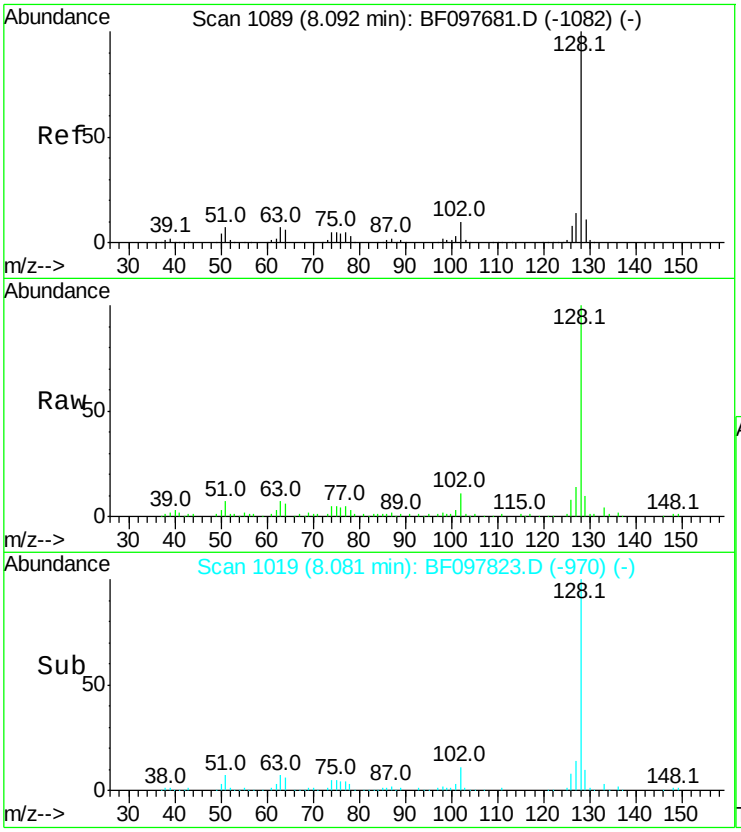



#23
Nitrobenzene-d5
Concen: 39.011 ng
RT: 7.33 min Scan# 892
Delta R.T. -0.02 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion: 82 Resp: 365116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 35.3 | 34.0 | 51.0 |
| 54 | 42.2 | 42.2 | 63.2# |

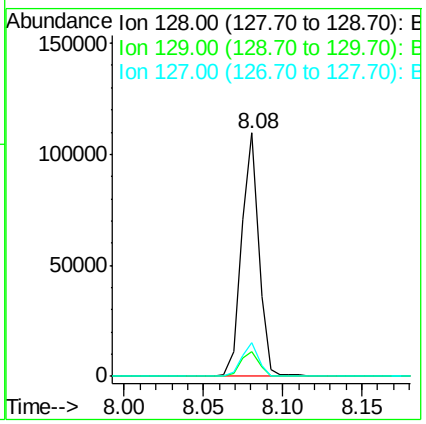





#31
Naphthalene
Concen: 3.138 ng
RT: 8.08 min Scan# 1019
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:128 Resp: 82824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.3 | 9.0 | 13.6 |
| 127 | 13.8 | 10.8 | 16.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-K9-BASE

**Manual Integrations APPROVED**
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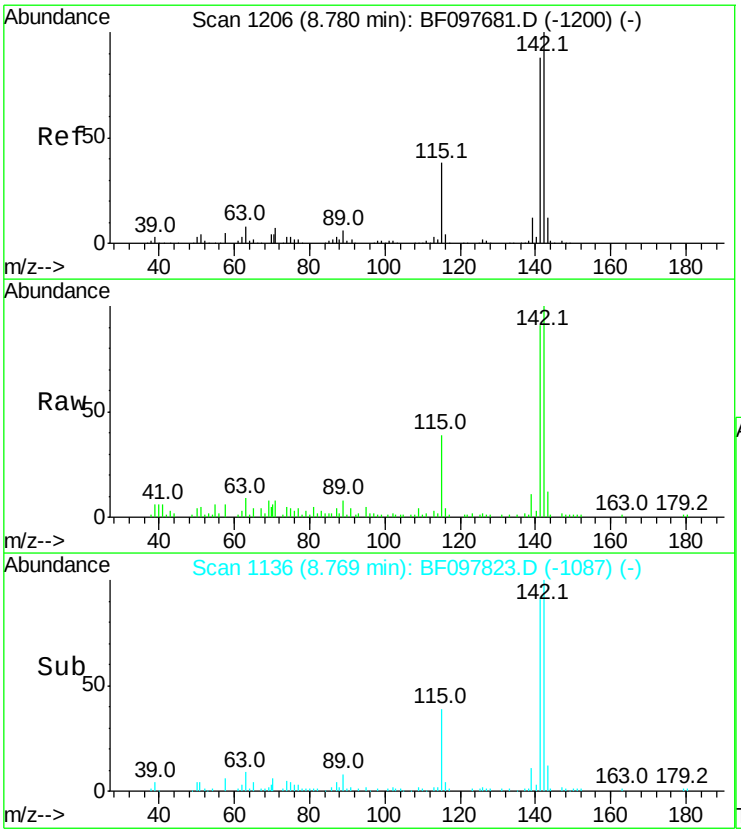
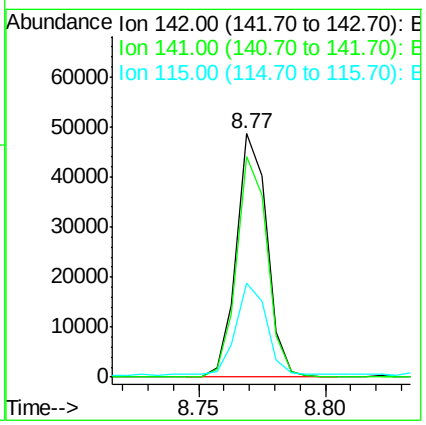
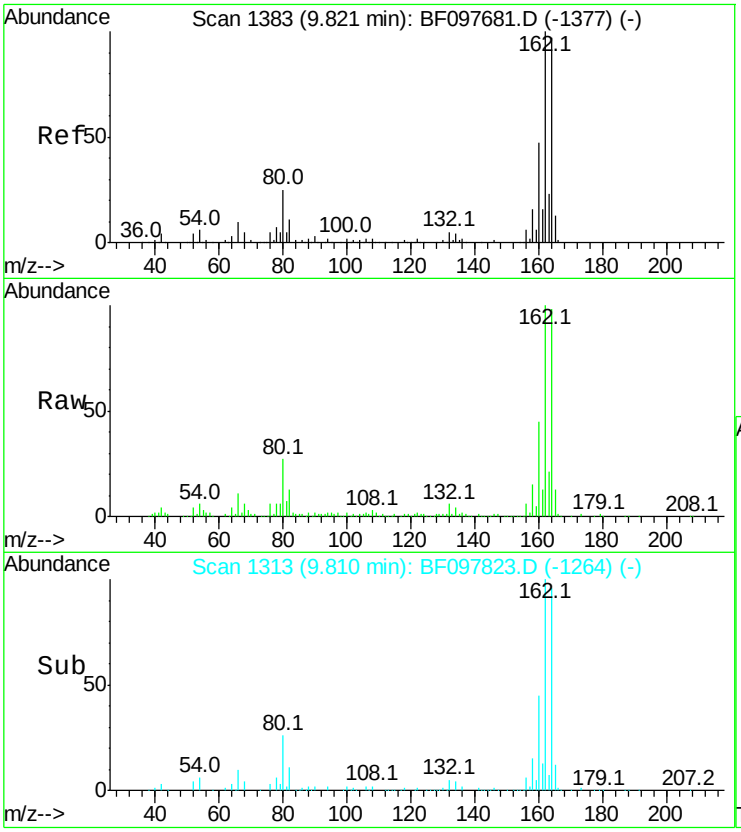



#37
2-Methylnaphthalene
Concen: 2.523 ng
RT: 8.77 min Scan# 1136
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:142 Resp: 40830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.8 | 71.3 | 106.9 |
| 115 | 38.5 | 27.1 | 40.7 |

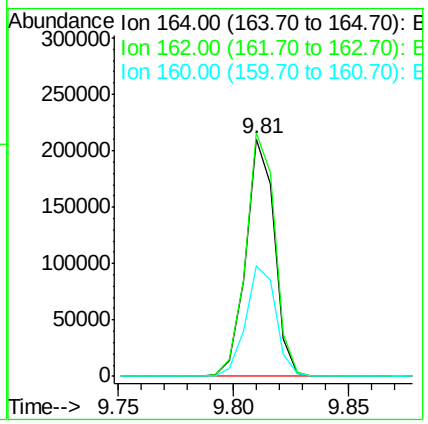





#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.81 min Scan# 1313
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:164 Resp: 183272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.6 | 82.6 | 123.8 |
| 160 | 46.4 | 36.2 | 54.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-K9-BASE

**Manual Integrations APPROVED**
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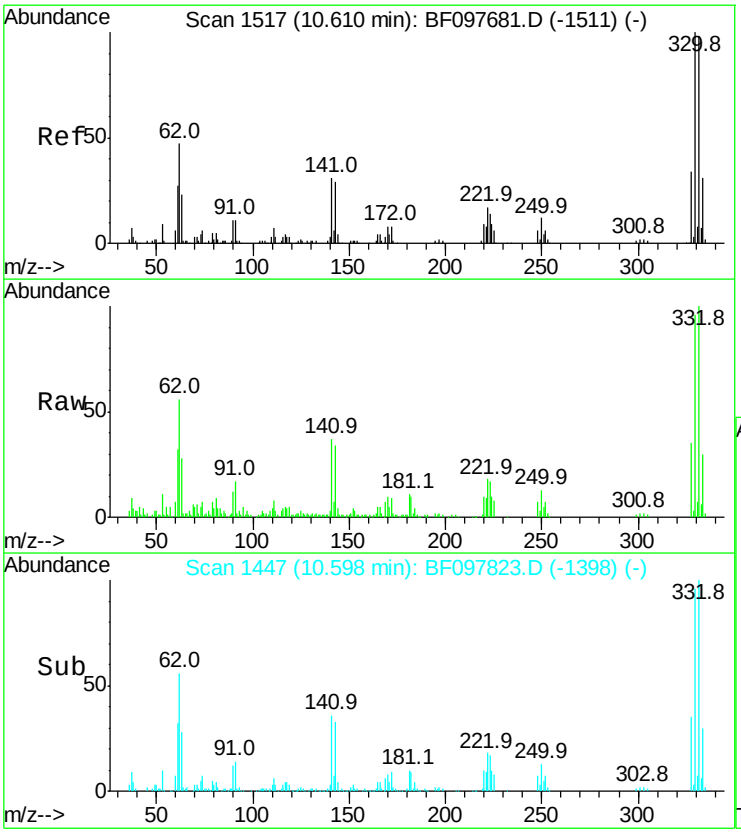
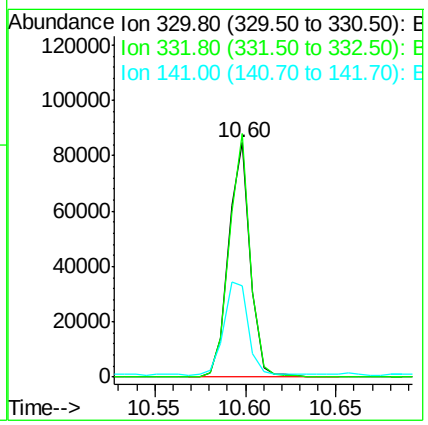
8/18/2017 7:02:43 PM

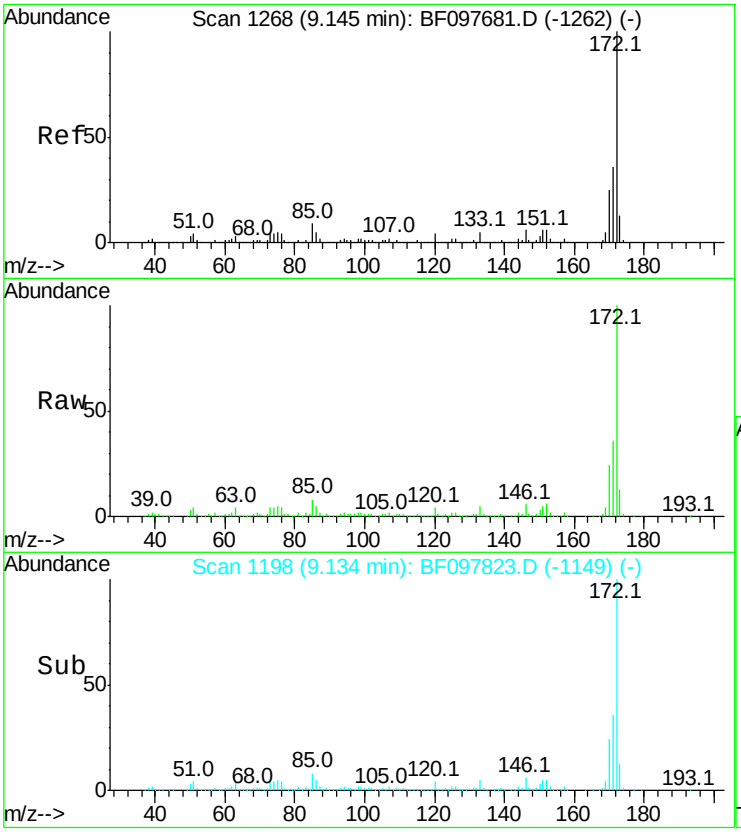



#41
2,4,6-Tribromophenol
Concen: 44.266 ng
RT: 10.60 min Scan# 1447
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:330 Resp: 70391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 100.5 | 76.6 | 115.0 |
| 141 | 44.0 | 31.4 | 47.2 |

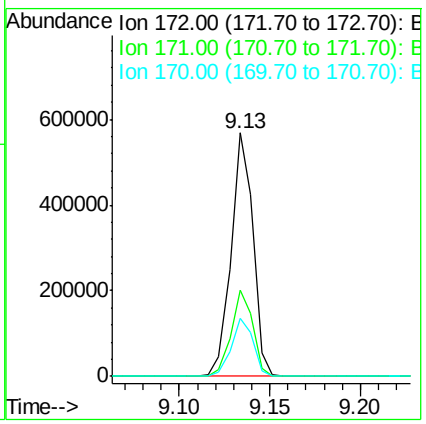





#44
2-Fluorobiphenyl
Concen: 38.342 ng
RT: 9.13 min Scan# 1198
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:172 Resp: 478290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.5 | 29.6 | 44.4 |
| 170 | 23.8 | 19.8 | 29.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-K9-BASE

**Manual Integrations APPROVED**
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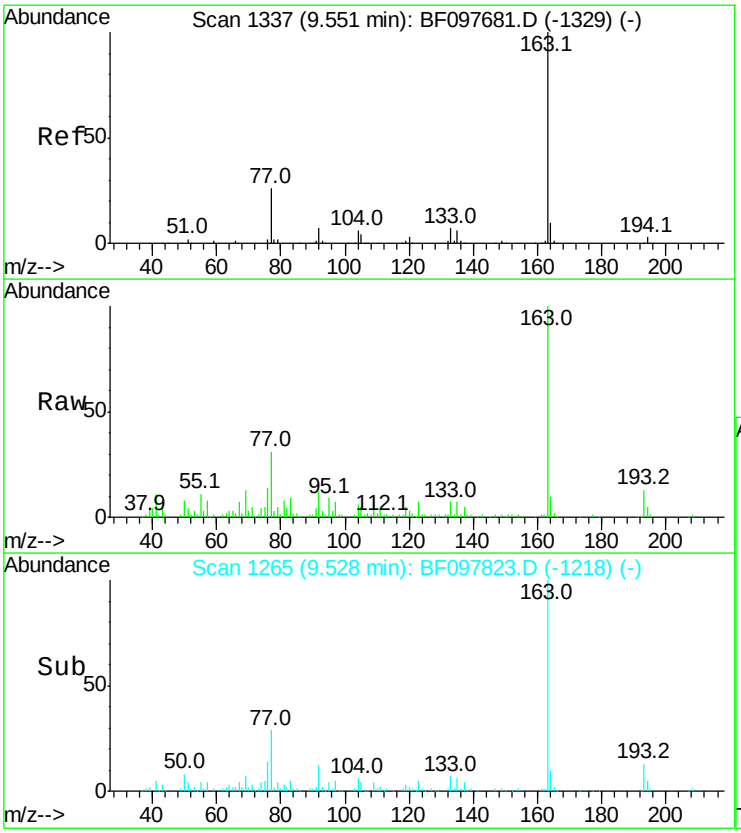
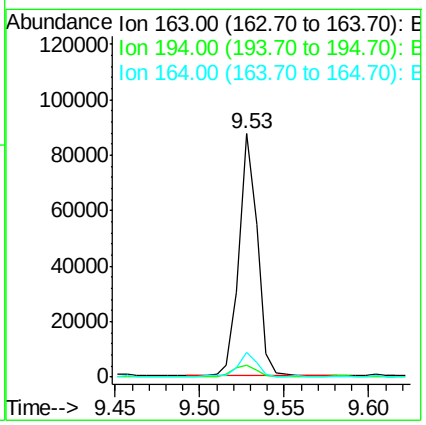
8/18/2017 7:02:43 PM

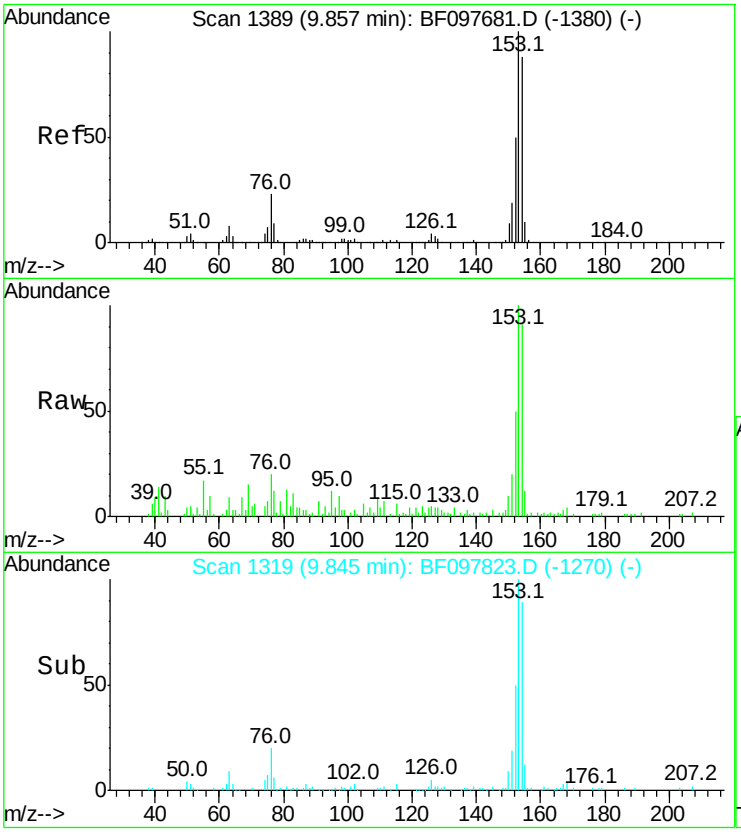



#49
Dimethylphthalate
Concen: 4.929 ng
RT: 9.53 min Scan# 1265
Delta R.T. -0.02 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:163 Resp: 66031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 5.0 | 2.6 | 4.0# |
| 164 | 9.9 | 8.4 | 12.6 |

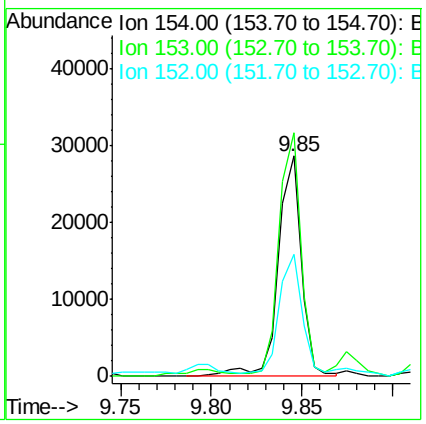





#51
Acenaphthene
Concen: 2.081 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

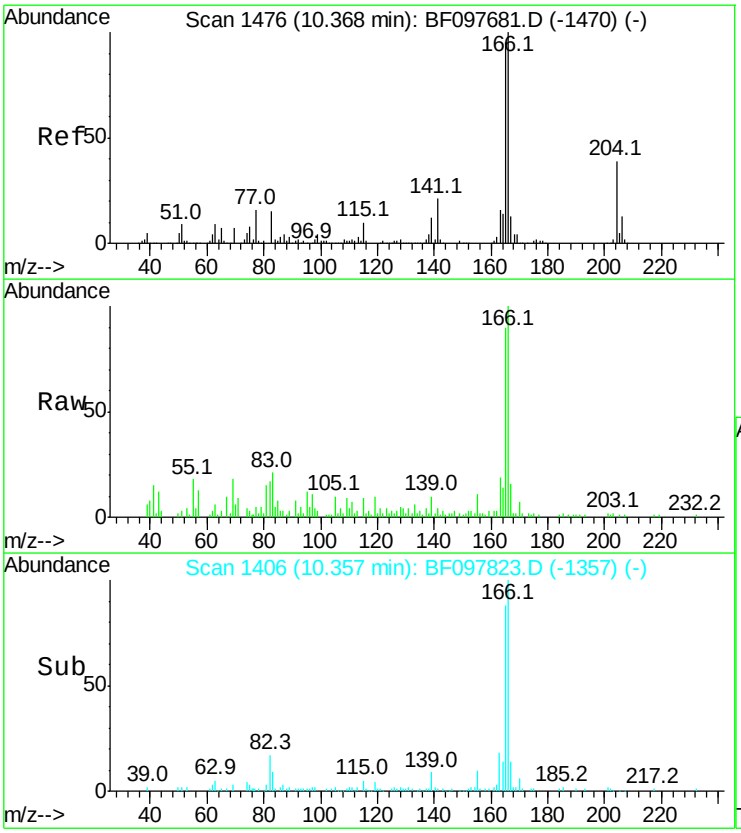
Tgt Ion:154 Resp: 25445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 110.5 | 90.5 | 135.7 |
| 152 | 55.6 | 43.6 | 65.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-K9-BASE

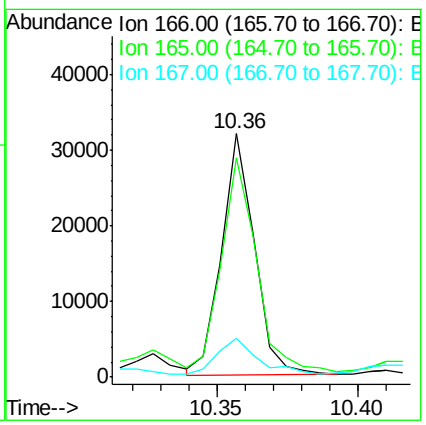
**Manual Integrations APPROVED**
Sohil
8/18/2017 7:02:43 PM

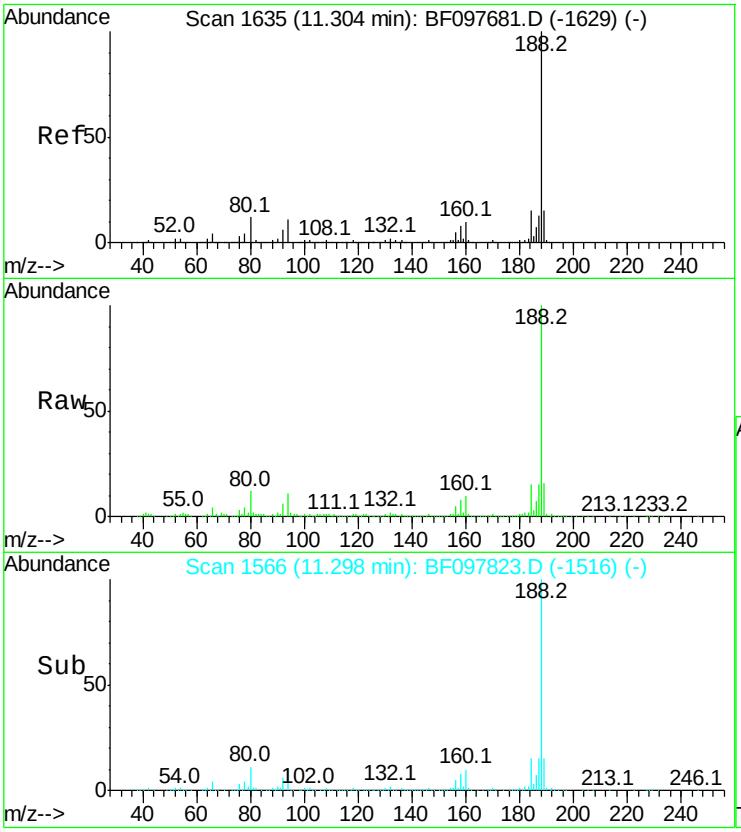



#57
Fluorene
Concen: 2.023 ng
RT: 10.36 min Scan# 1406
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:166 Resp: 25633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 90.1 | 78.8 | 118.2 |
| 167 | 16.0 | 10.6 | 16.0# |






#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.30 min Scan# 1566
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:188 Resp: 317499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.5 | 9.4 | 14.2 |
| 80 | 11.6 | 10.2 | 15.2 |

**Instrument :**
BNA_F
**ClientSampleId :**
E2-K9-BASE

**Manual Integrations APPROVED**
Sohil
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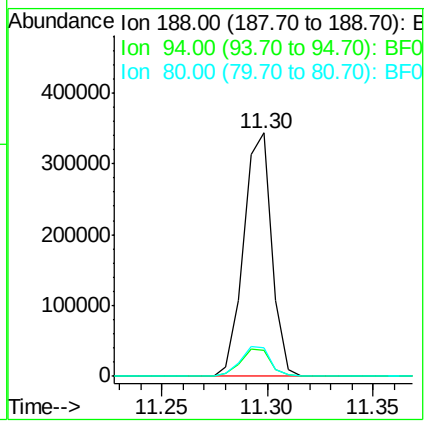
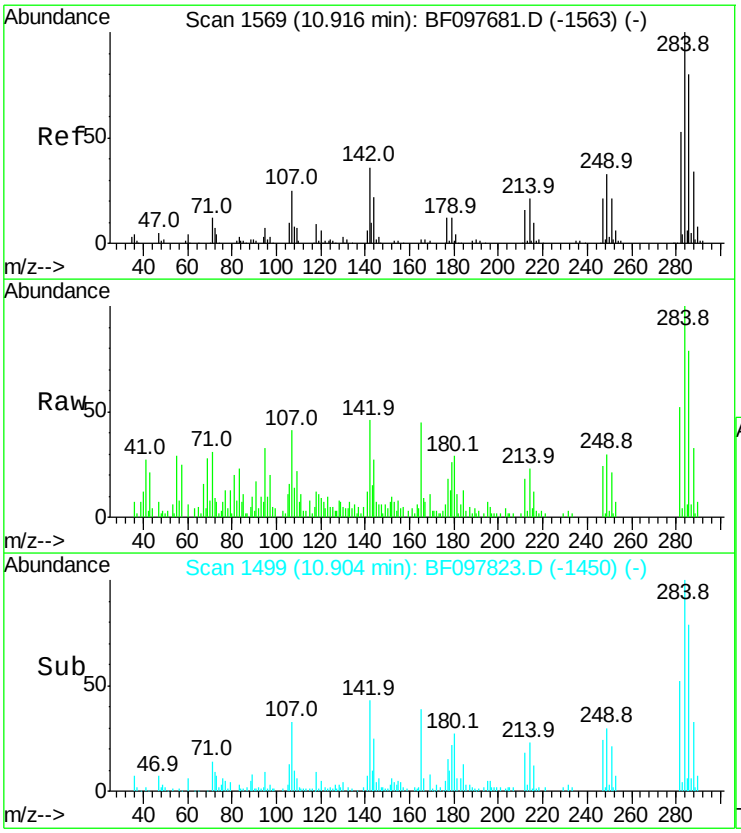
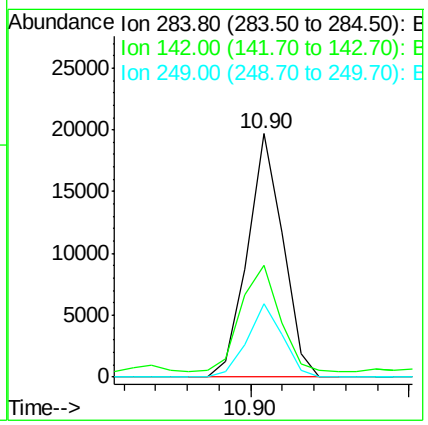


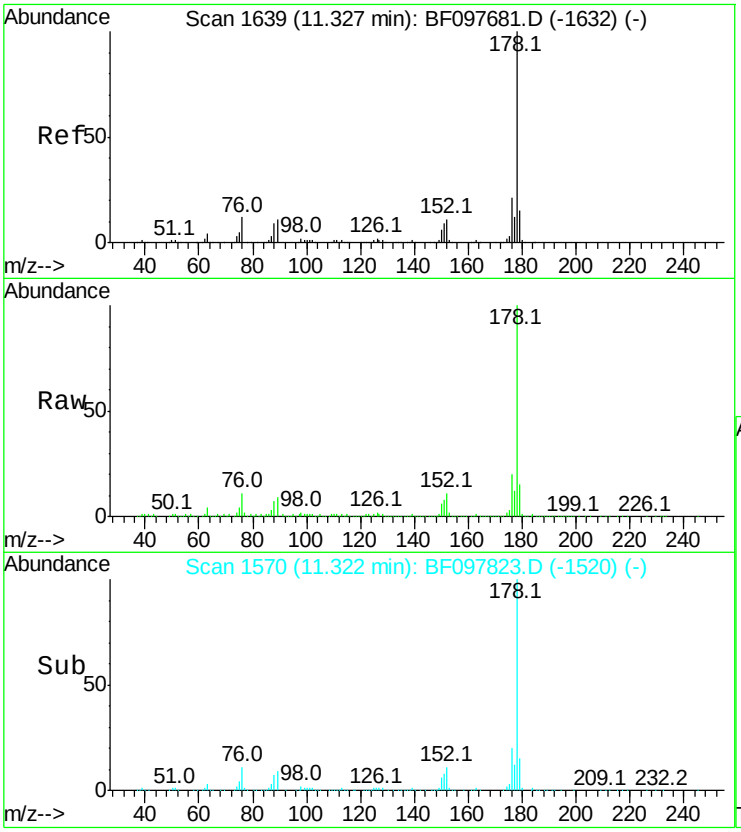




#67
Hexachlorobenzene
Concen: 4.557 ng
RT: 10.90 min Scan# 1499
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:284 Resp: 15313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 45.9 | 22.8 | 34.2# |
| 249 | 30.3 | 24.0 | 36.0 |

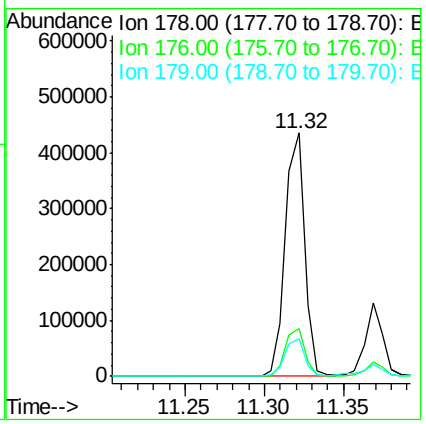





#70
Phenanthrene
Concen: 21.859 ng
RT: 11.32 min Scan# 1570
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:178 Resp: 369819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.7 | 16.2 | 24.4 |
| 179 | 15.2 | 12.6 | 19.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-K9-BASE

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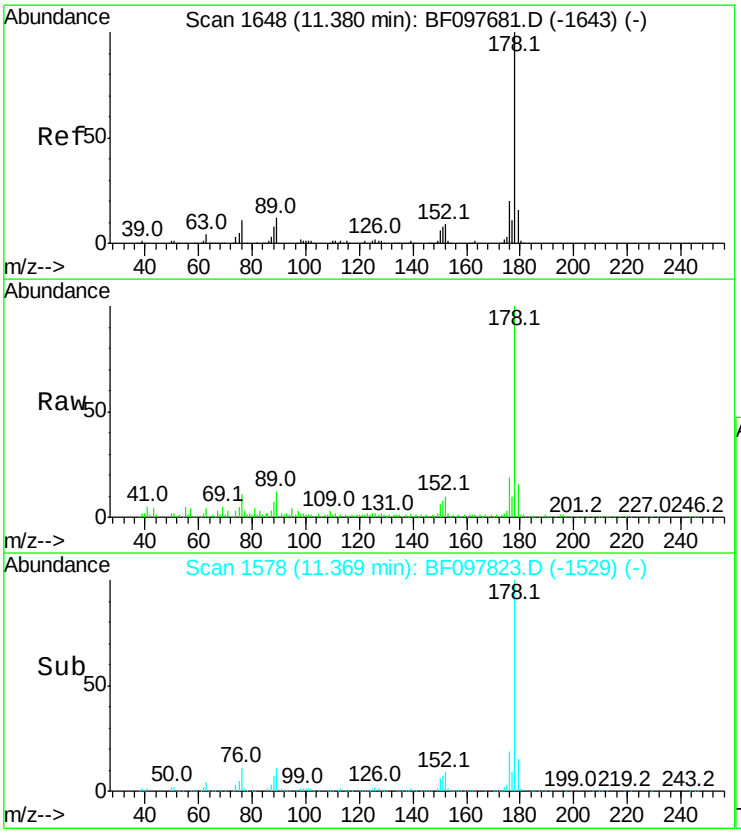
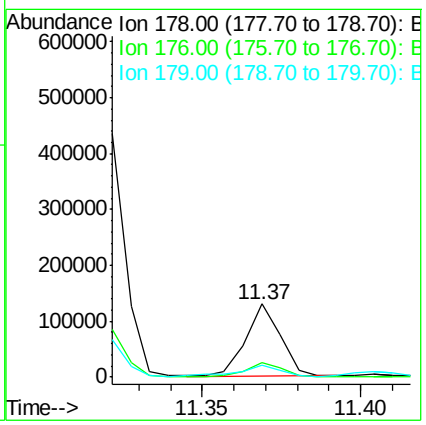
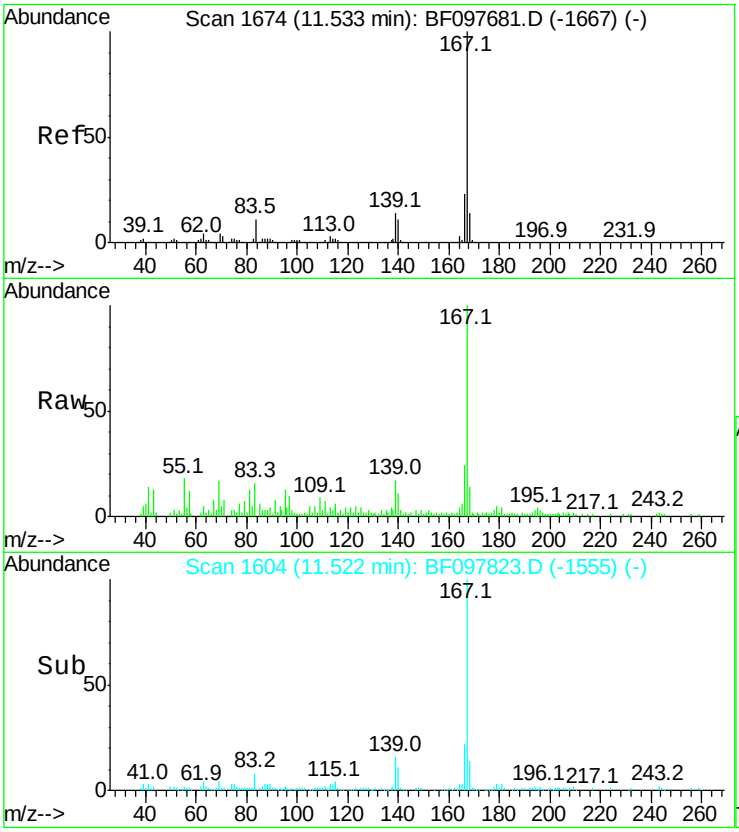



#71
Anthracene
Concen: 5.715 ng
RT: 11.37 min Scan# 1578
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:178 Resp: 98074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 15.8 | 23.8 |
| 179 | 15.9 | 12.7 | 19.1 |






#72
Carbazole
Concen: 2.180 ng
RT: 11.52 min Scan# 1604
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:167 Resp: 35517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 23.7 | 18.1 | 27.1 |
| 139 | 17.2 | 11.7 | 17.5 |

**Instrument :**
BNA_F
**ClientSampleId :**
E2-K9-BASE

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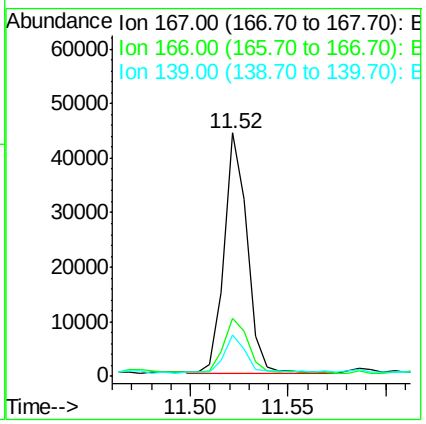
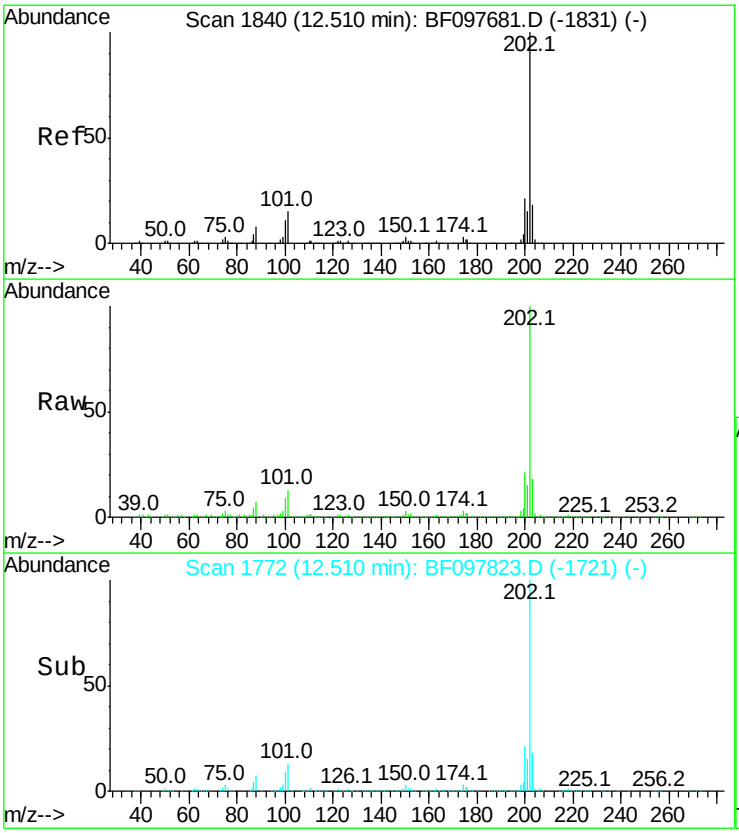
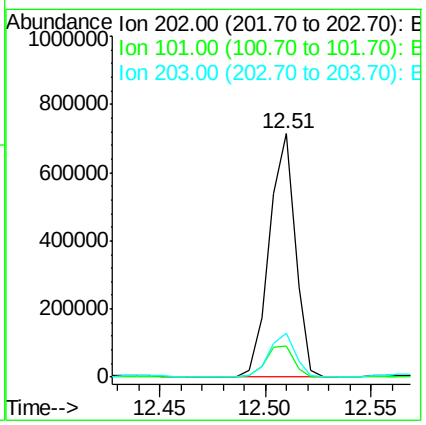


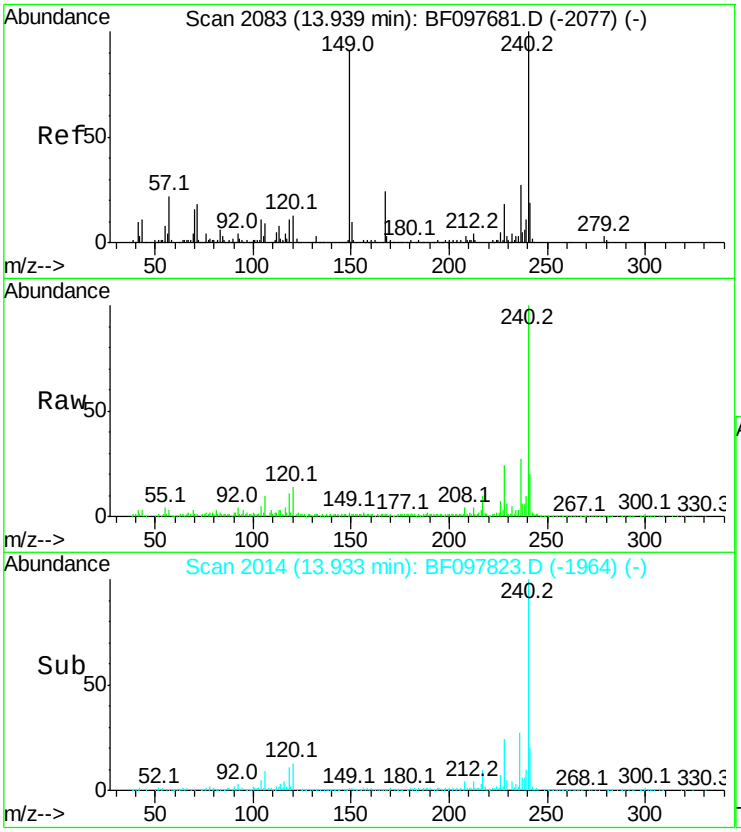




#74
Fluoranthene
Concen: 34.430 ng
RT: 12.51 min Scan# 1772
Delta R.T. 0.00 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:202 Resp: 608002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.9 | 0.0 | 33.2 |
| 203 | 17.8 | 0.0 | 38.1 |

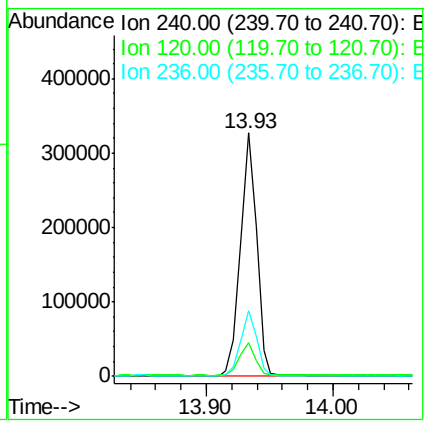





#75
Chrysene-d12
Concen: 20.000 ng
RT: 13.93 min Scan# 2014
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:240 Resp: 287825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.7 | 5.8 | 8.8# |
| 236 | 27.0 | 20.5 | 30.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-K9-BASE

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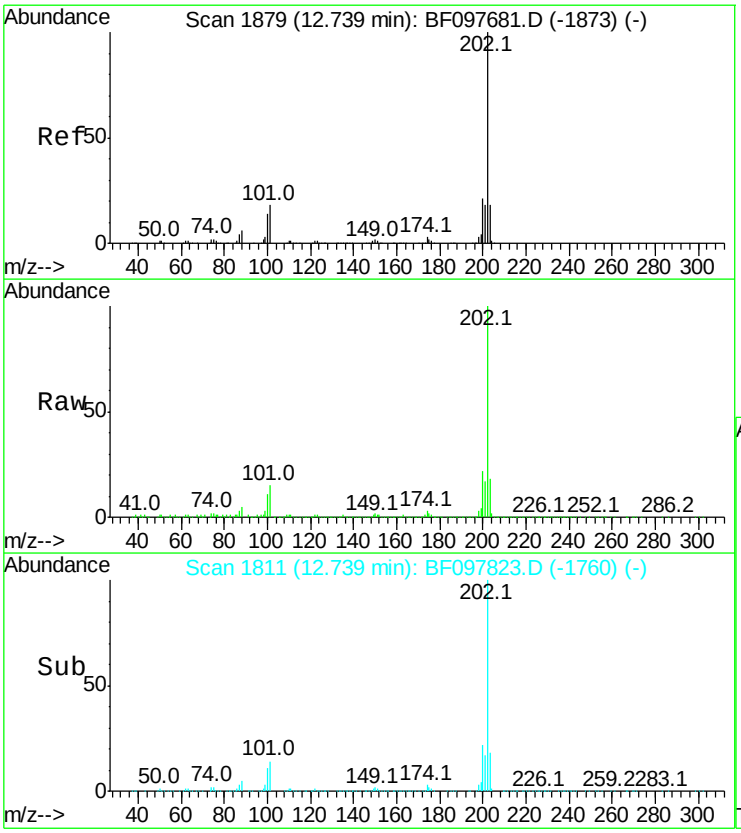
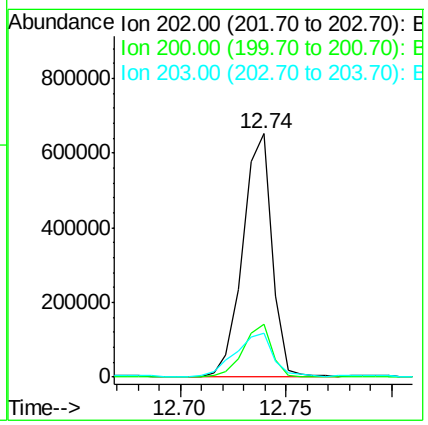
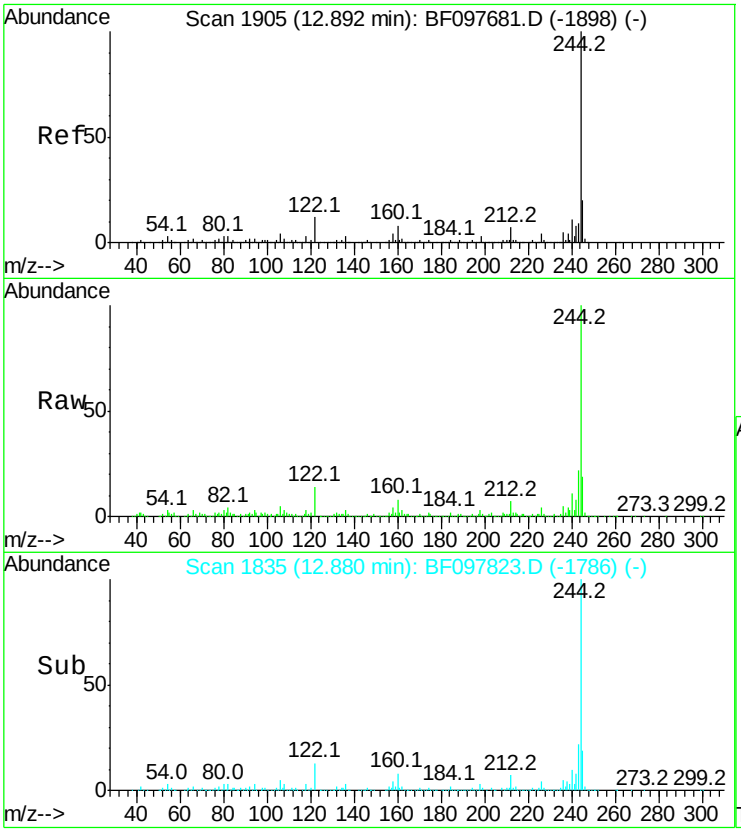



#77
Pyrene
Concen: 26.778 ng
RT: 12.74 min Scan# 1811
Delta R.T. 0.00 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:202 Resp: 630370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.6 | 17.6 | 26.4 |
| 203 | 18.1 | 14.4 | 21.6 |

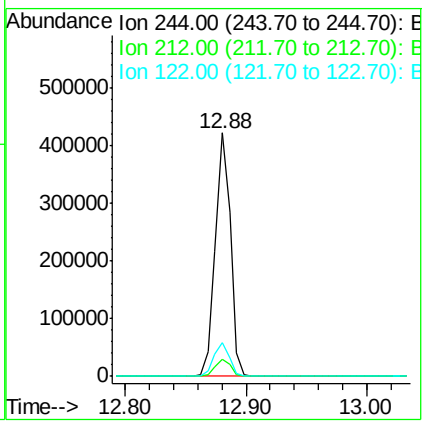





#78
Terphenyl-d14
Concen: 26.024 ng
RT: 12.88 min Scan# 1835
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:244 Resp: 359197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.2 | 6.0 | 9.0 |
| 122 | 13.7 | 10.3 | 15.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-K9-BASE

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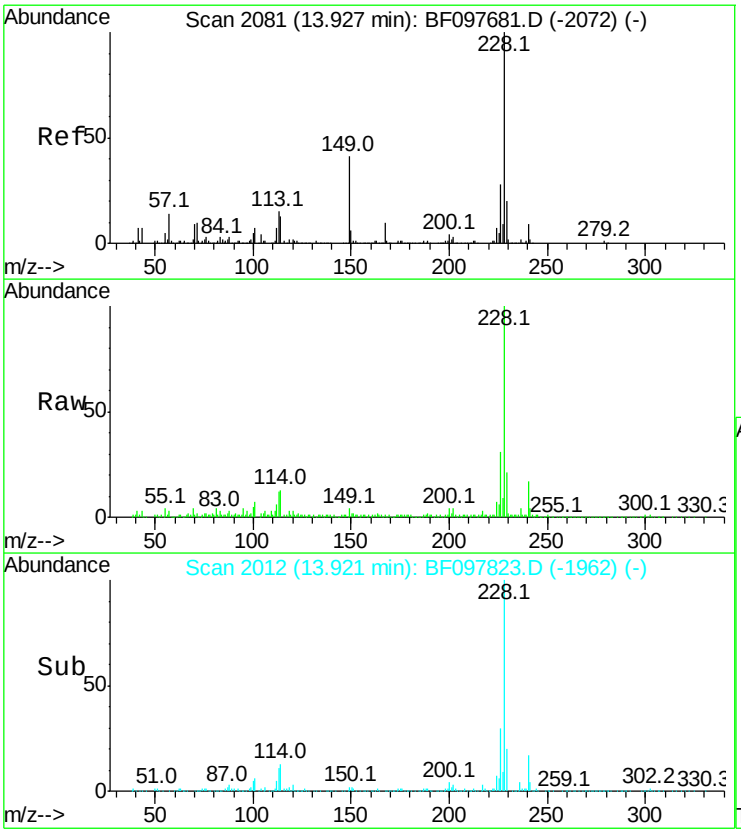
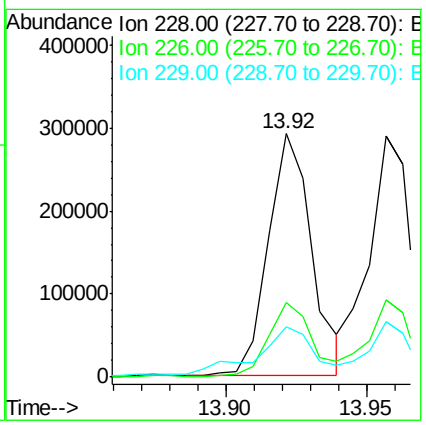
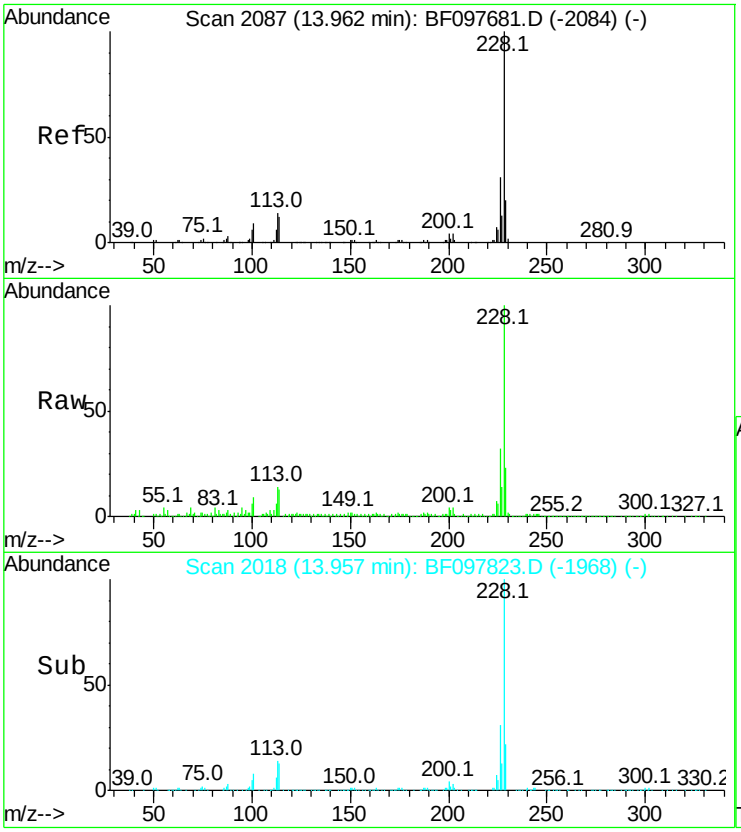



#80
Benzo(a)anthracene
Concen: 17.997 ng
RT: 13.92 min Scan# 2012
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:228 Resp: 310453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.6 | 22.6 | 33.8 |
| 229 | 20.6 | 16.3 | 24.5 |

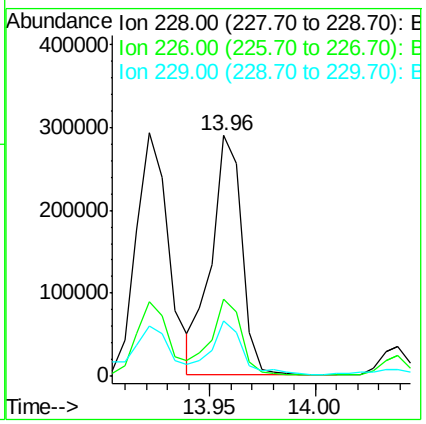





#82
Chrysene
Concen: 16.858 ng
RT: 13.96 min Scan# 2018
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:228 Resp: 289297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.0 | 24.9 | 37.3 |
| 229 | 23.2 | 15.8 | 23.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-K9-BASE

**Manual Integrations APPROVED**
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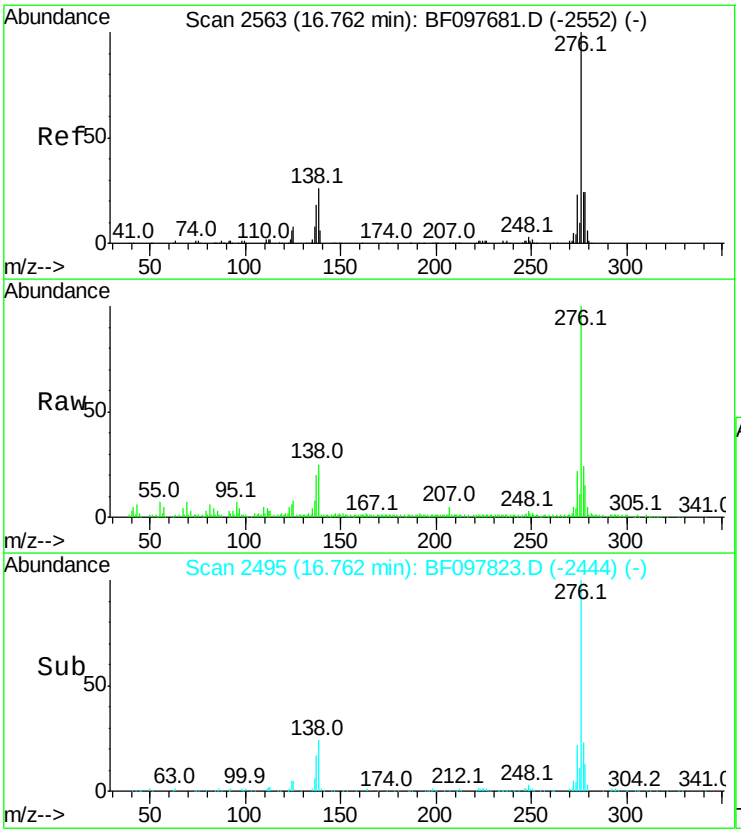
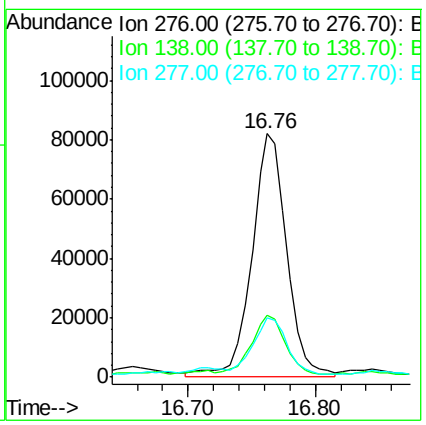
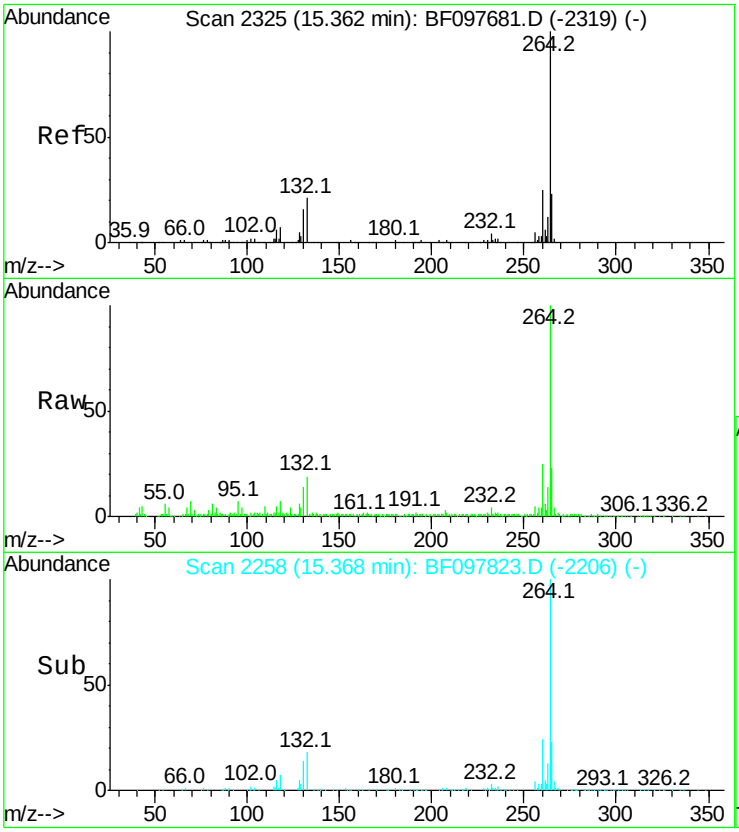



#85
Indeno(1,2,3-cd)pyrene
Concen: 12.446 ng m
RT: 16.76 min Scan# 2495
Delta R.T. 0.00 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:276 Resp: 157119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 5.0 | 27.8 | 41.6# |
| 277 | 4.6 | 20.2 | 30.4# |

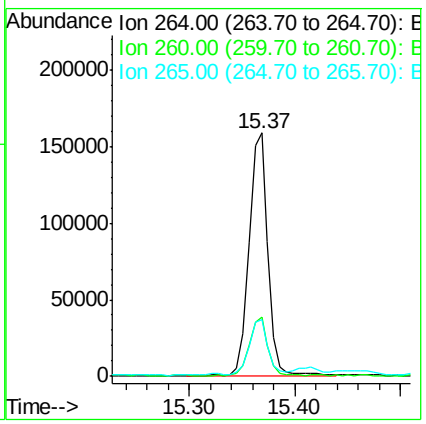





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.37 min Scan# 2258
Delta R.T. 0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:264 Resp: 197080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.6 | 19.5 | 29.3 |
| 265 | 23.1 | 17.2 | 25.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
E2-K9-BASE

**Manual Integrations APPROVED**
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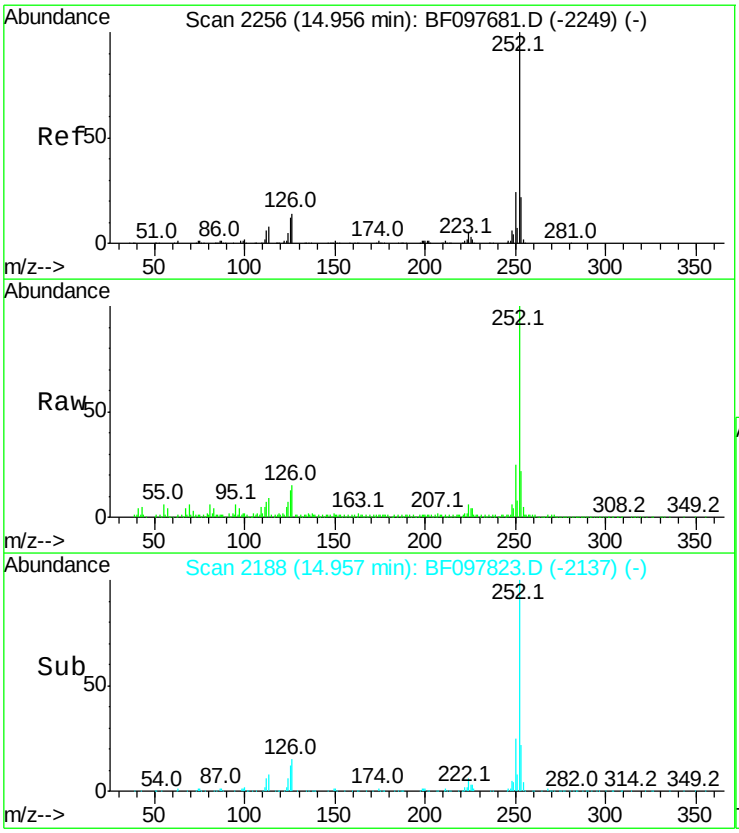
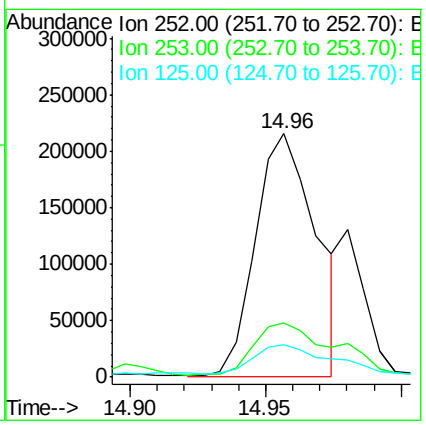
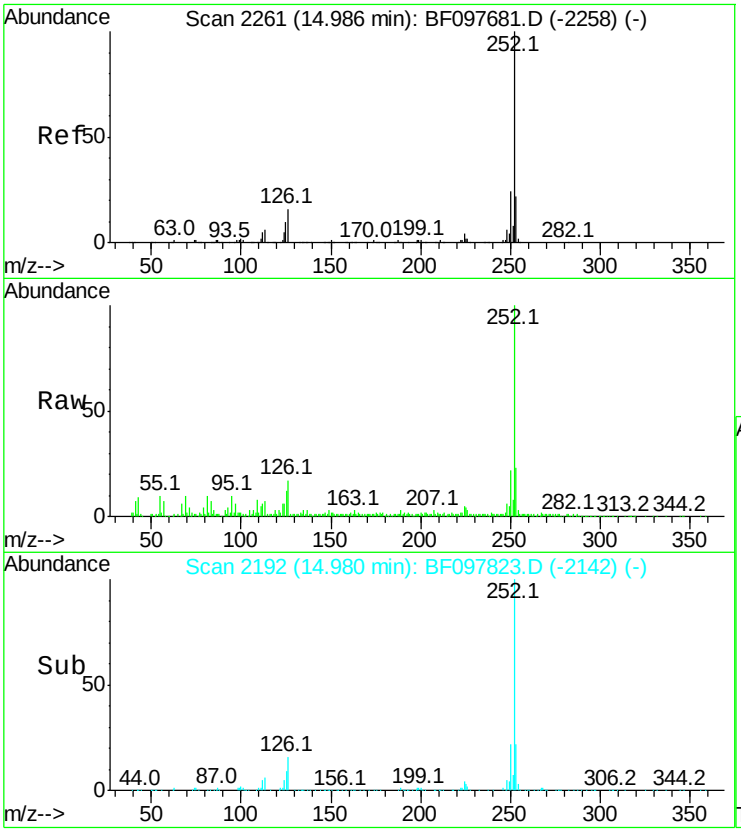



#87
Benzo(b)fluoranthene
Concen: 27.198 ng m
RT: 14.96 min Scan# 2188
Delta R.T. 0.00 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:252 Resp: 337875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.3 | 18.1 | 27.1 |
| 125 | 13.1 | 9.8 | 14.8 |






#88
Benzo(k)fluoranthene
Concen: 7.533 ng m
RT: 14.98 min Scan# 2192
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:252 Resp: 87916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.9 | 18.4 | 27.6 |
| 125 | 11.8 | 13.1 | 19.7# |

**Instrument :**
BNA_F
**ClientSampleId :**
E2-K9-BASE

**Manual Integrations APPROVED**
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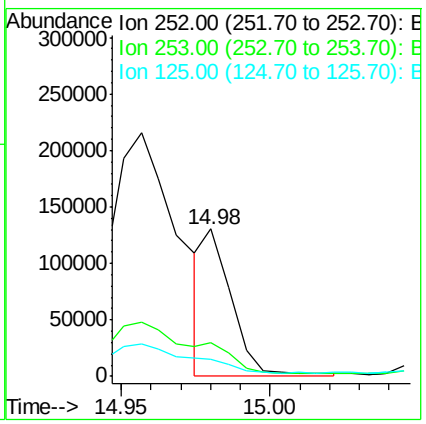
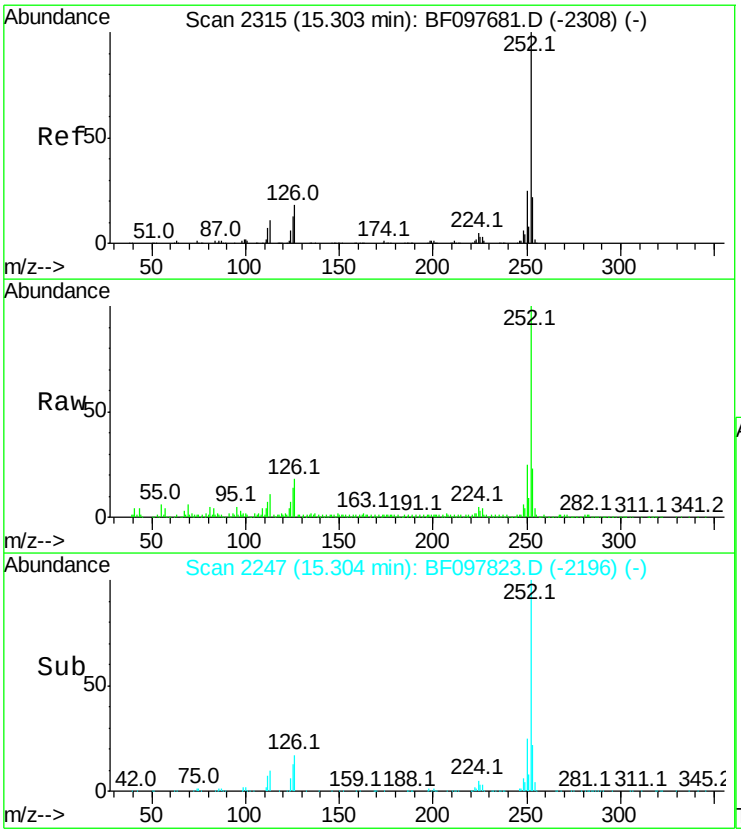
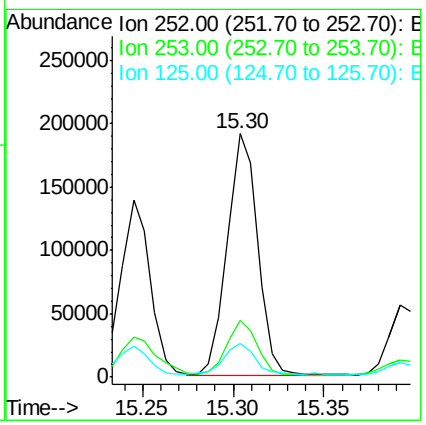


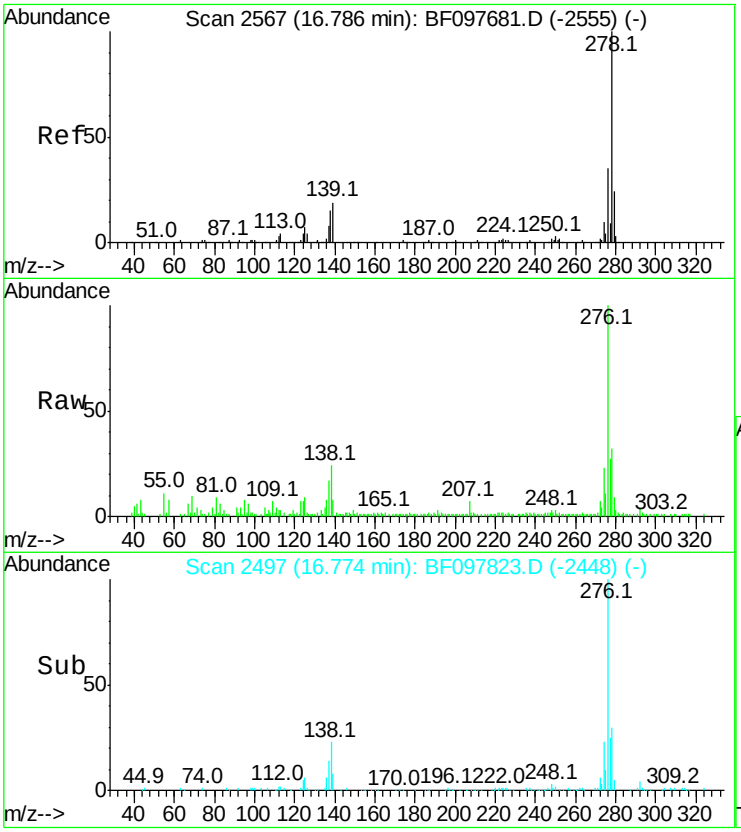




#89
Benzo(a)pyrene
Concen: 20.477 ng
RT: 15.30 min Scan# 2247
Delta R.T. 0.00 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:252 Resp: 225191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.1 | 17.5 | 26.3 |
| 125 | 13.9 | 11.0 | 16.4 |






#90
Dibenzo(a,h)anthracene
Concen: 4.000 ng m
RT: 16.77 min Scan# 2497
Delta R.T. -0.01 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:278 Resp: 35817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 25.0 | 16.6 | 24.8# |
| 279 | 27.8 | 19.3 | 28.9 |

**Instrument :**
BNA_F
**ClientSampleId :**
E2-K9-BASE

**Manual Integrations APPROVED**
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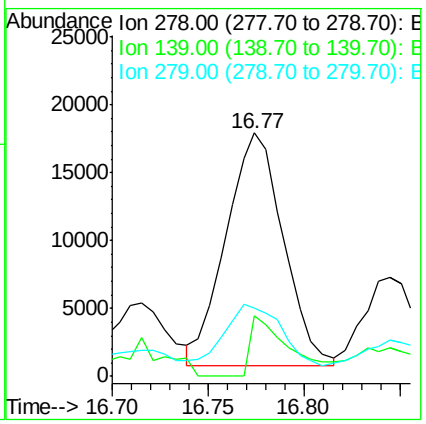


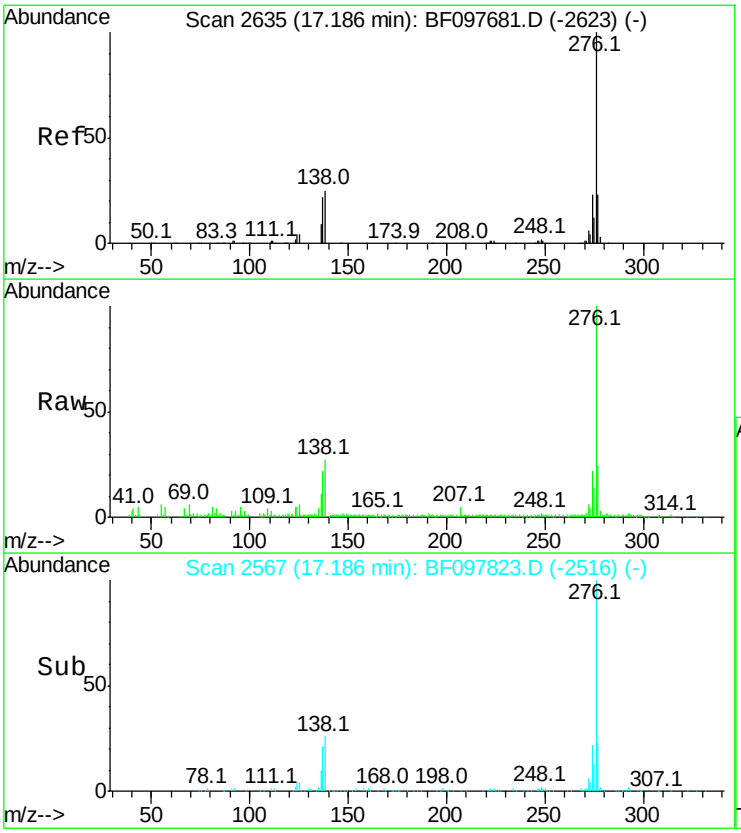


#91
Benzo(g,h,i)perylene
Concen: 16.218 ng
RT: 17.19 min Scan# 2567
Delta R.T. 0.00 min
Lab File: BF097823.D
Acq: 18 Aug 2017 9:17

Tgt Ion:276 Resp: 151504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.3 | 18.6 | 28.0 |
| 138 | 26.6 | 25.4 | 38.0 |