Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101718\
Data File : BE097957.D
Acq On : 17 Oct 2018 21:22
Operator : SJ/JU
Sample : J5521-06 10X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
AOC8-02A

**Manual Integrations APPROVED**
Sohil
10/18/2018 1:57:45 PM

Quant Time: Oct 18 10:50:51 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 16 15:36:44 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.88 | 152 | 1926 | 0.40 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.68 | 136 | 9078 | 0.40 | ng | | -0.01 |
| 13) Acenaphthene-d10 | 14.54 | 164 | 6609 | 0.40 | ng | | -0.01 |
| 19) Phenanthrene-d10 | 17.29 | 188 | 16456 | 0.40 | ng | | -0.01 |
| 27) Chrysene-d12 | 21.47 | 240 | 18799 | 0.40 | ng | | -0.01 |
| 34) Perylene-d12 | 24.03 | 264 | 19257 | 0.40 | ng | | -0.01 |
| **System Monitoring Compounds** | | | | | | | |
| 4) 2-Fluorophenol | 5.47 | 112 | 207 | 0.03 | ng | | 0.00 |
| 5) Phenol-d6 | 7.05 | 99 | 306 | 0.03 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 9.15 | 82 | 92 | 0.01 | ng | | 0.10 |
| 11) 2-Methylnaphthalene-d10 | 12.28 | 152 | 475 | 0.03 | ng | | -0.01 |
| 14) 2,4,6-Tribromophenol | 16.05 | 330 | 104 | 0.03 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 13.17 | 172 | 626 | 0.02 | ng | | 0.00 |
| 25) Fluoranthene-d10 | 19.33 | 212 | 5654 | 0.03 | ng | | 0.00 |
| 29) Terphenyl-d14 | 19.92 | 244 | 2189 | 0.05 | ng | | -0.01 |
| **Target Compounds** | | | | | | | Qvalue |
| 9) Naphthalene | 10.73 | 128 | 35170 | 0.389 | ng | | 100 |
| 12) 2-Methylnaphthalene | 12.35 | 142 | 6838 | 0.442 | ng | | 98 |
| 16) Acenaphthylene | 14.27 | 152 | 43848 | 1.436 | ng | | 99 |
| 17) Acenaphthene | 14.62 | 154 | 17068 | 0.915 | ng | | 99 |
| 18) Fluorene | 15.59 | 166 | 58858 | 2.293 | ng | | 98 |
| 23) Phenanthrene | 17.34 | 178 | 590242 | 14.116 | ng | | 99 |
| 24) Anthracene | 17.42 | 178 | 213948 | 5.416 | ng | | 99 |
| 26) Fluoranthene | 19.35 | 202 | 1172442 | 21.370 | ng | | 99 |
| 28) Pyrene | 19.72 | 202 | 1019572 | 18.800 | ng | # | 94 |
| 30) Benzo(a)anthracene | 21.46 | 228 | 688922 | 11.946 | ng | | 99 |
| 31) Chrysene | 21.51 | 228 | 548236 | 10.038 | ng | | 98 |
| 33) Indeno(1,2,3-cd)pyrene | 26.73 | 276 | 363689 | 8.336 | ng | | 96 |
| 35) Benzo(b)fluoranthene | 23.25 | 252 | 730228 | 13.178 | ng | # | 90 |
| 36) Benzo(k)fluoranthene | 23.30 | 252 | 283122m | 4.903 | ng | | |
| 37) Benzo(a)pyrene | 23.92 | 252 | 569717m | 10.547 | ng | | |
| 38) Dibenzo(a,h)anthracene | 26.75 | 278 | 93514 | 1.768 | ng | | 97 |
| 39) Benzo(g,h,i)perylene | 27.56 | 276 | 346015 | 6.385 | ng | # | 92 |

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

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Misc :
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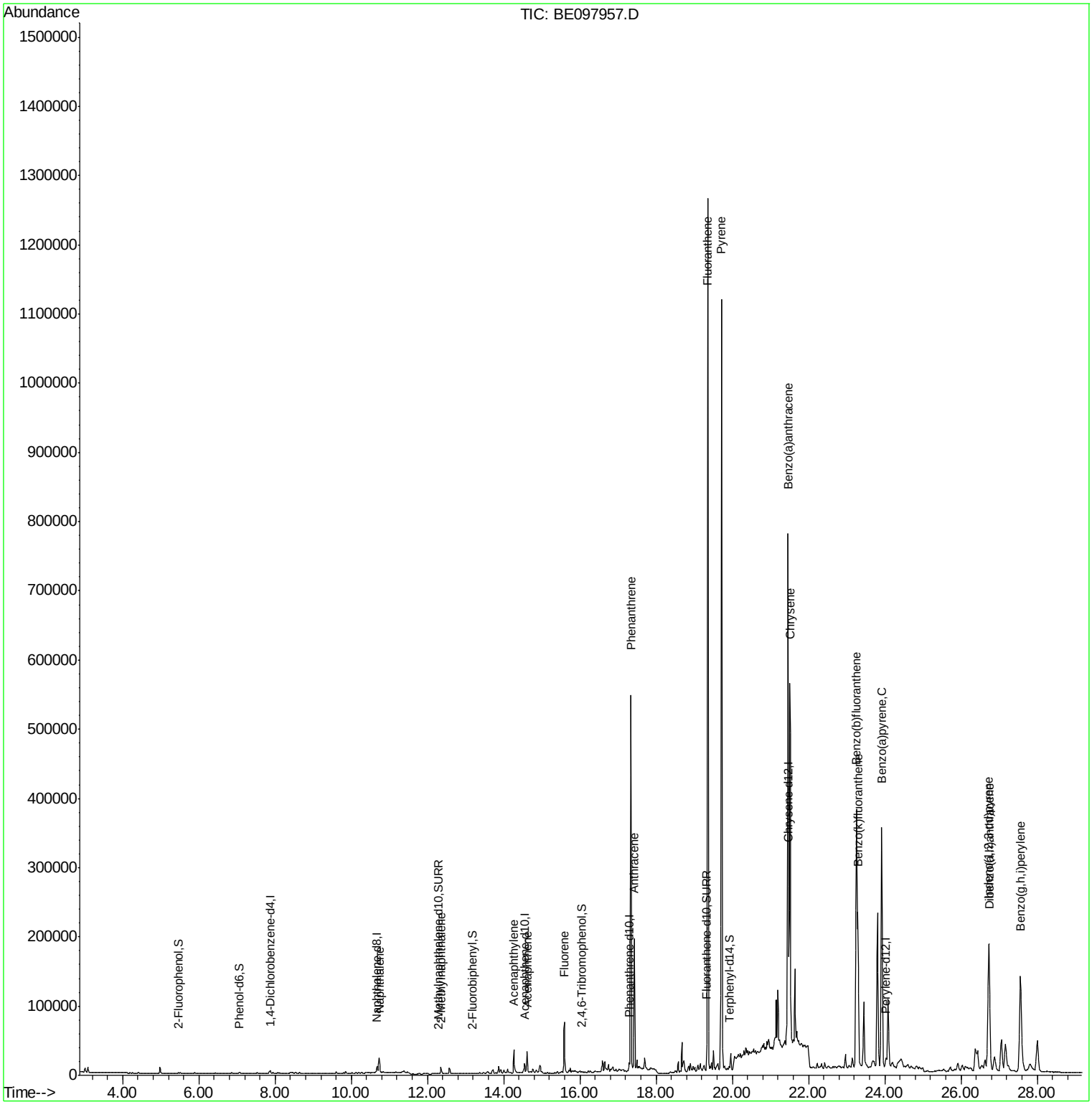
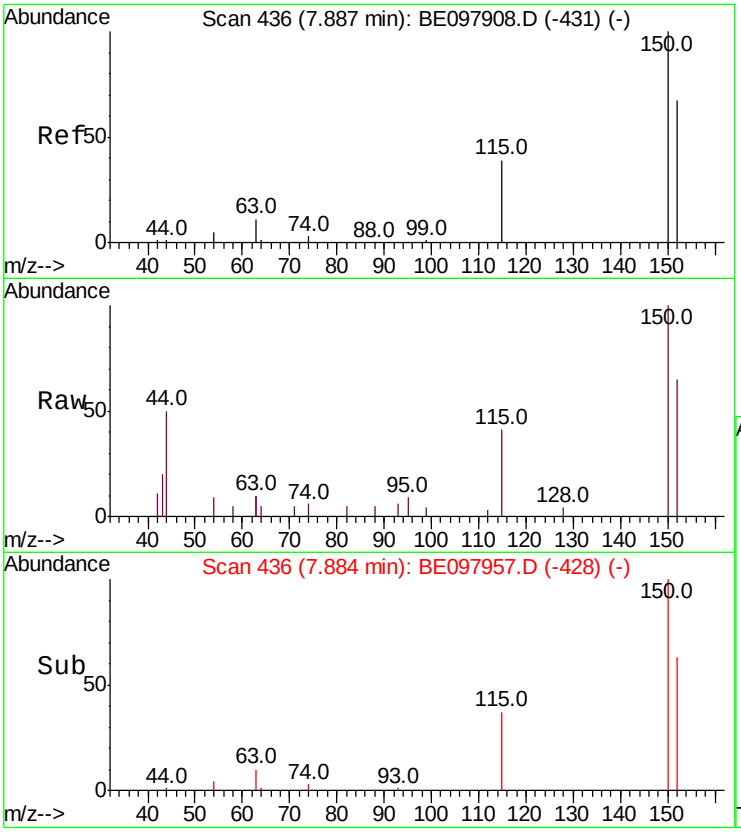
**Instrument :**
BNA_E
**ClientSampleId :**
AOC8-02A

**Manual Integrations APPROVED**
Sohil
10/18/2018 1:57:45 PM

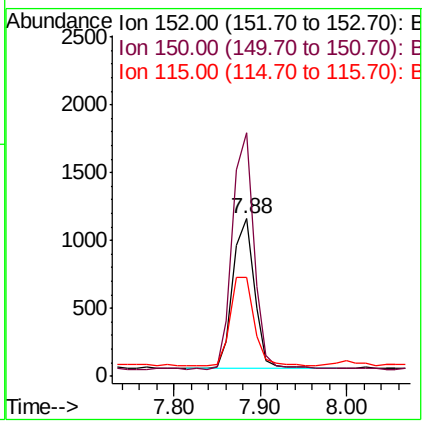





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.88 min Scan# 436
Delta R.T. -0.00 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:152 Resp: 1926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.3 | 118.2 | 177.4 |
| 115 | 62.8 | 50.9 | 76.3 |




**Instrument :**
BNA_E
**ClientSampleId :**
AOC8-02A

**Manual Integrations APPROVED**
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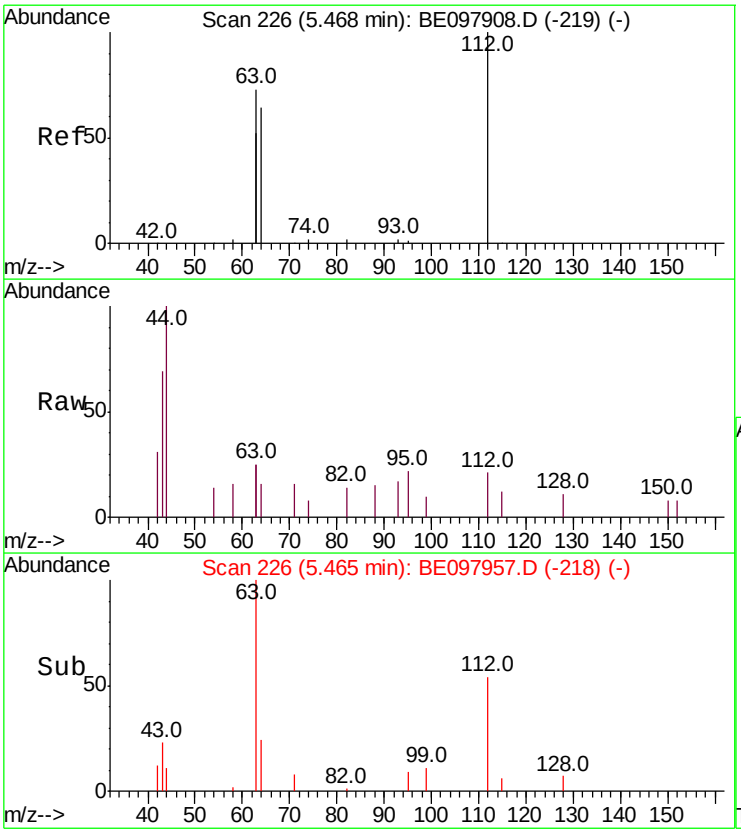
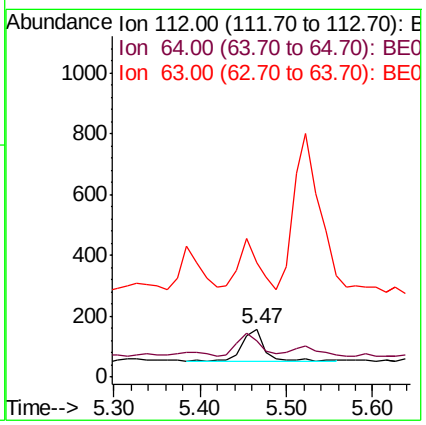
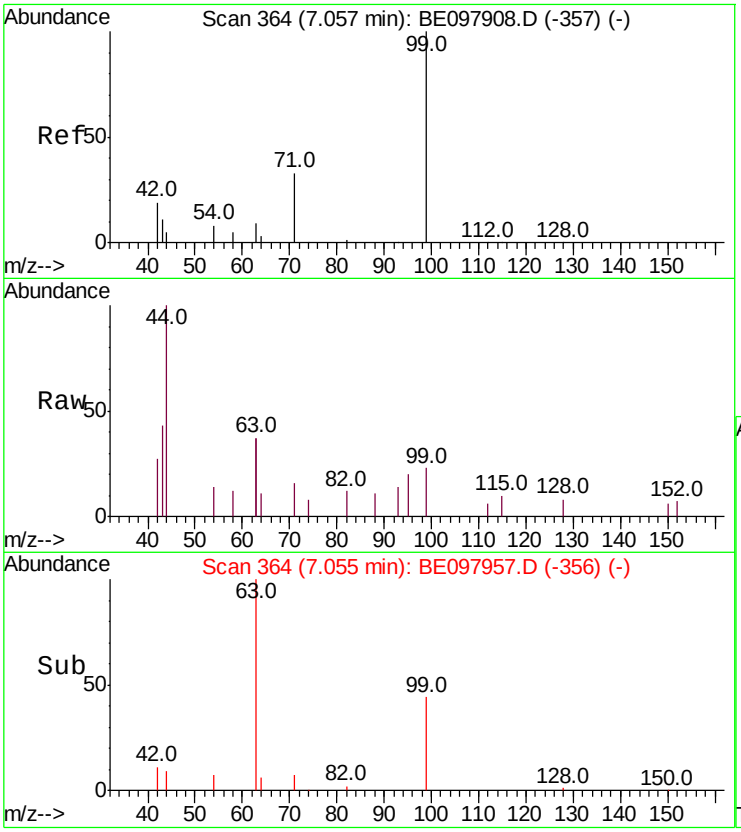



#4
2-Fluorophenol
Concen: 0.034 ng
RT: 5.47 min Scan# 226
Delta R.T. -0.00 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:112 Resp: 207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 66.7 | 58.9 | 88.3 |
| 63 | 127.1 | 120.3 | 180.5 |

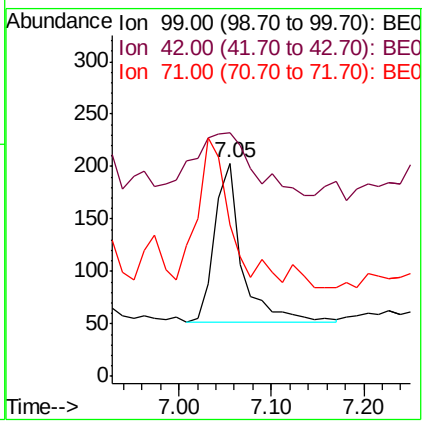





#5
Phenol-d6
Concen: 0.034 ng
RT: 7.05 min Scan# 364
Delta R.T. -0.00 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion: 99 Resp: 306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 88.9 | 19.9 | 29.9# |
| 71 | 0.0 | 27.8 | 41.8# |




**Instrument :**
BNA_E
**ClientSampleId :**
AOC8-02A

**Manual Integrations APPROVED**
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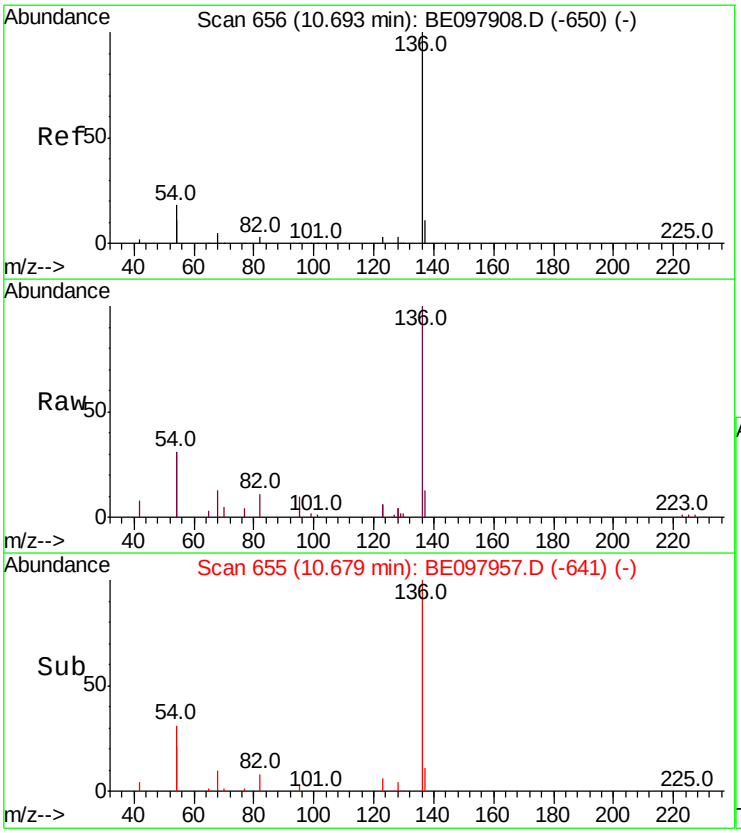
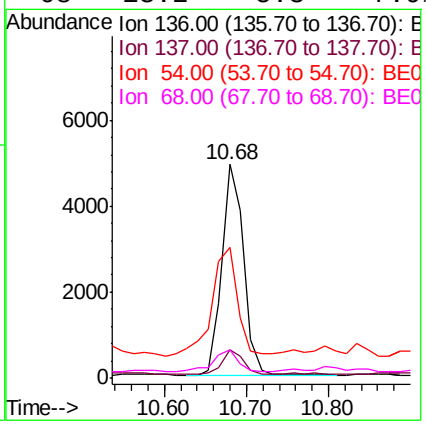
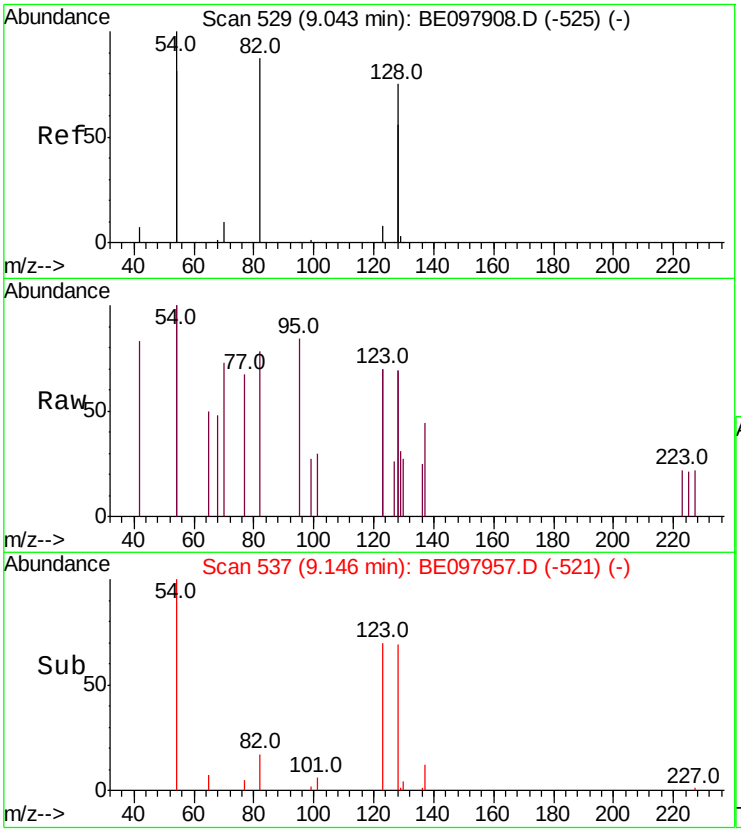



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.68 min Scan# 655
Delta R.T. -0.01 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:136 Resp: 9078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.0 | 9.6 | 14.4 |
| 54 | 61.0 | 27.7 | 41.5# |
| 68 | 13.2 | 5.3 | 7.9# |

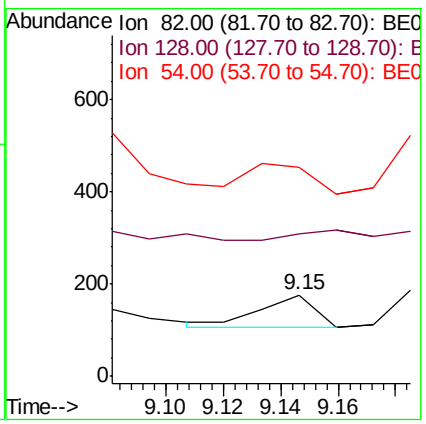





#8
Nitrobenzene-d5
Concen: 0.011 ng
RT: 9.15 min Scan# 537
Delta R.T. 0.10 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion: 82 Resp: 92

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 176.1 | 129.9 | 194.9 |
| 54 | 256.8 | 174.0 | 261.0 |




**Instrument :**
BNA_E
**ClientSampleId :**
AOC8-02A

**Manual Integrations APPROVED**
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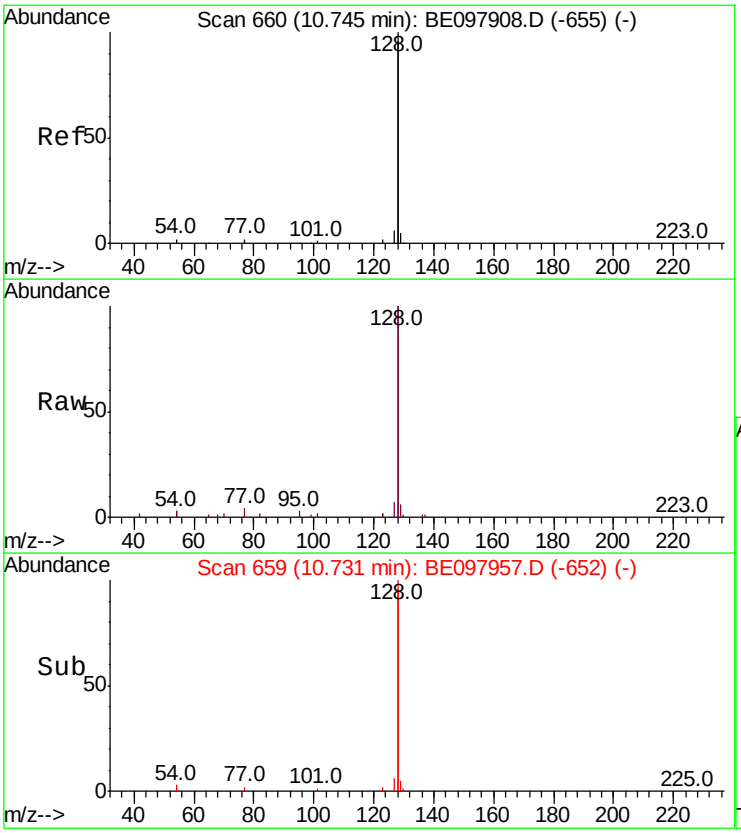
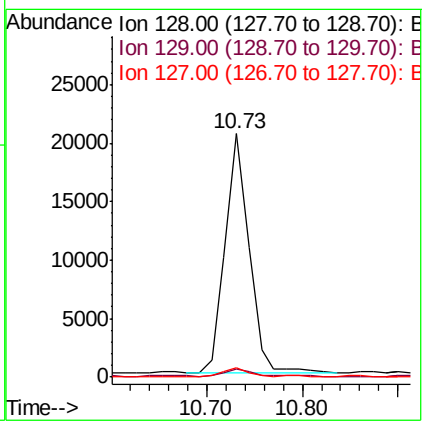
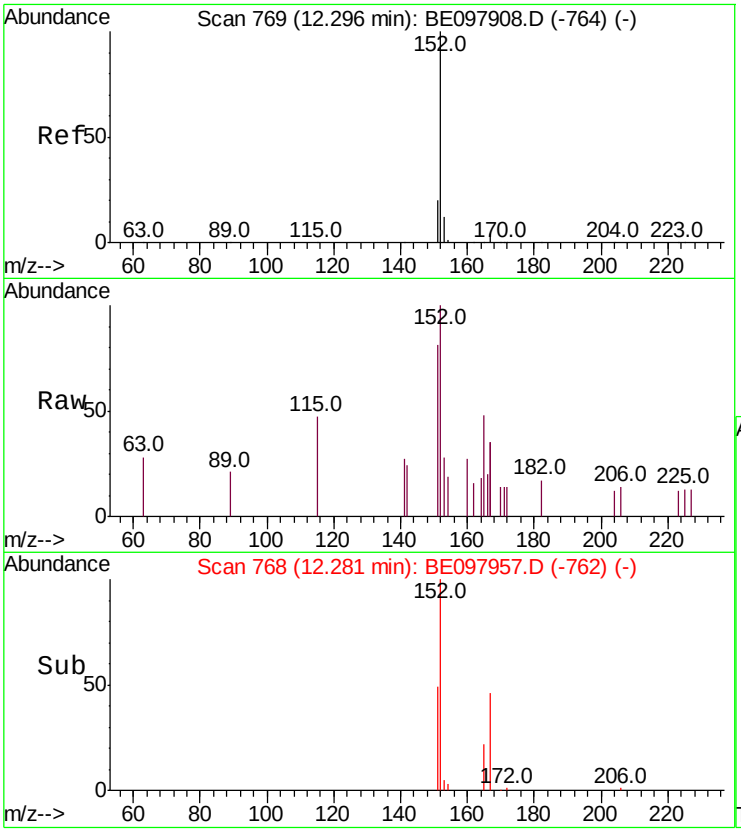



#9
Naphthalene
Concen: 0.389 ng
RT: 10.73 min Scan# 659
Delta R.T. -0.01 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:128 Resp: 35170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 3.2 | 2.5 | 3.7 |
| 127 | 3.6 | 2.8 | 4.2 |

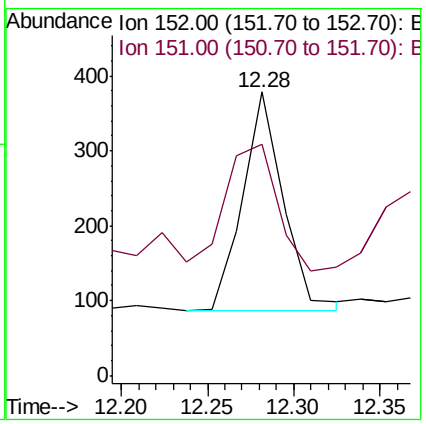





#11
2-Methylnaphthalene-d10
Concen: 0.031 ng
RT: 12.28 min Scan# 768
Delta R.T. -0.01 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:152 Resp: 475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 73.5 | 16.2 | 24.4# |




**Instrument :**
BNA_E
**ClientSampleId :**
AOC8-02A

**Manual Integrations APPROVED**
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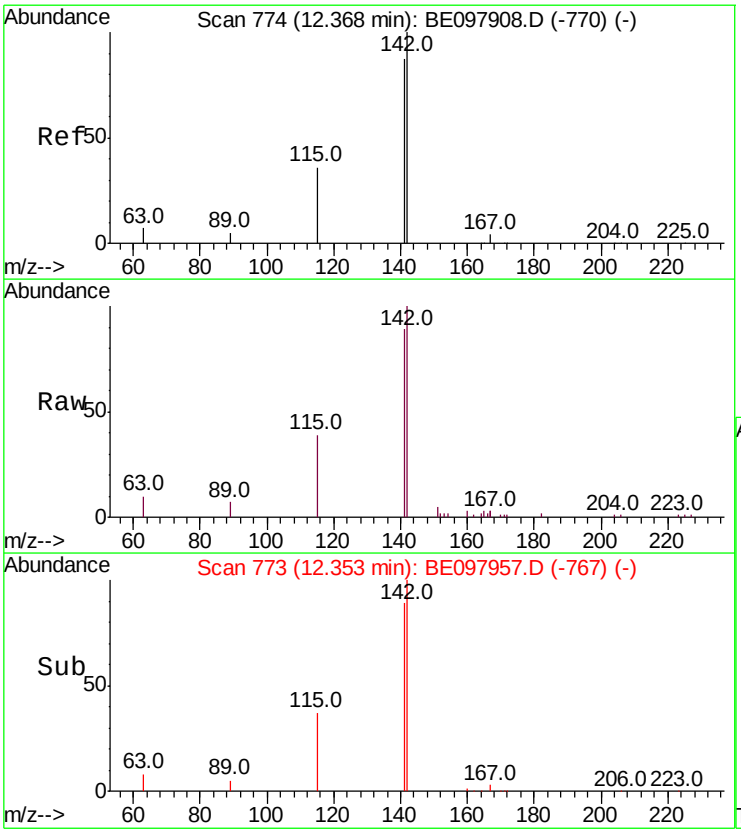
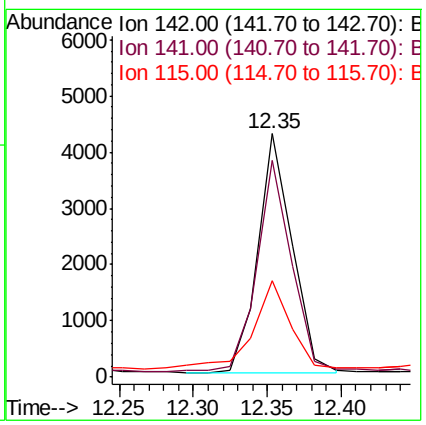
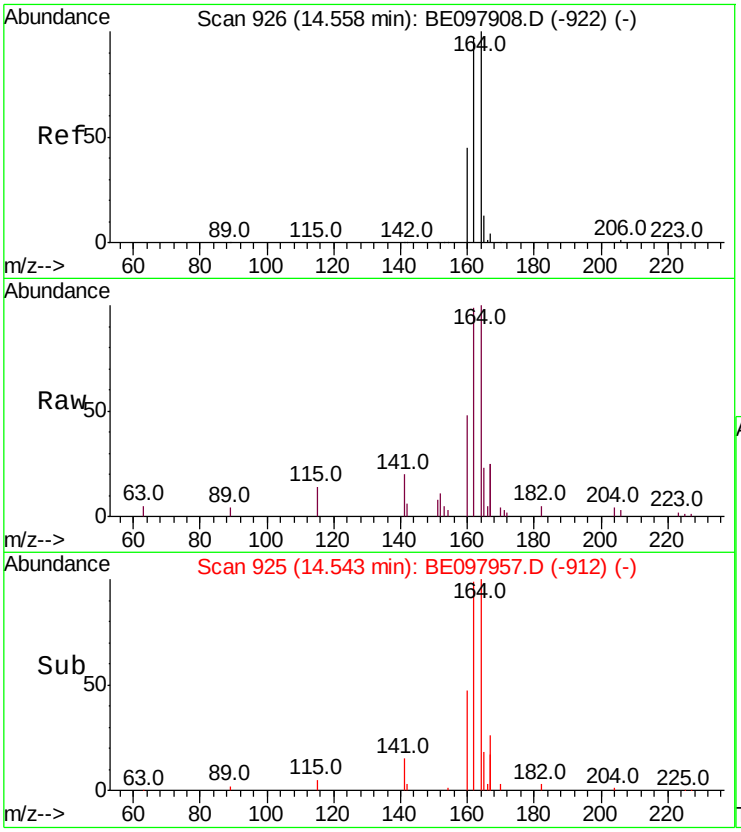



#12
2-Methylnaphthalene
Concen: 0.442 ng
RT: 12.35 min Scan# 773
Delta R.T. -0.01 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:142 Resp: 6838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.2 | 69.8 | 104.6 |
| 115 | 39.5 | 30.5 | 45.7 |

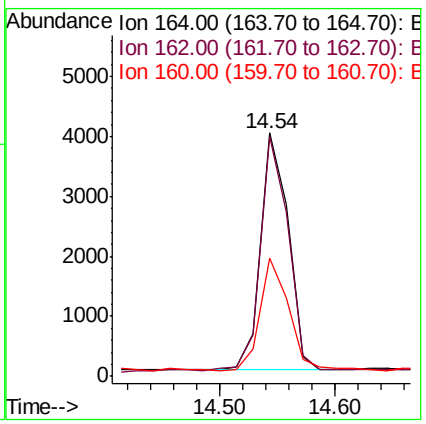





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.54 min Scan# 925
Delta R.T. -0.01 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:164 Resp: 6609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 98.5 | 77.4 | 116.2 |
| 160 | 48.5 | 36.5 | 54.7 |




**Instrument :**
BNA_E
**ClientSampleId :**
AOC8-02A

**Manual Integrations APPROVED**
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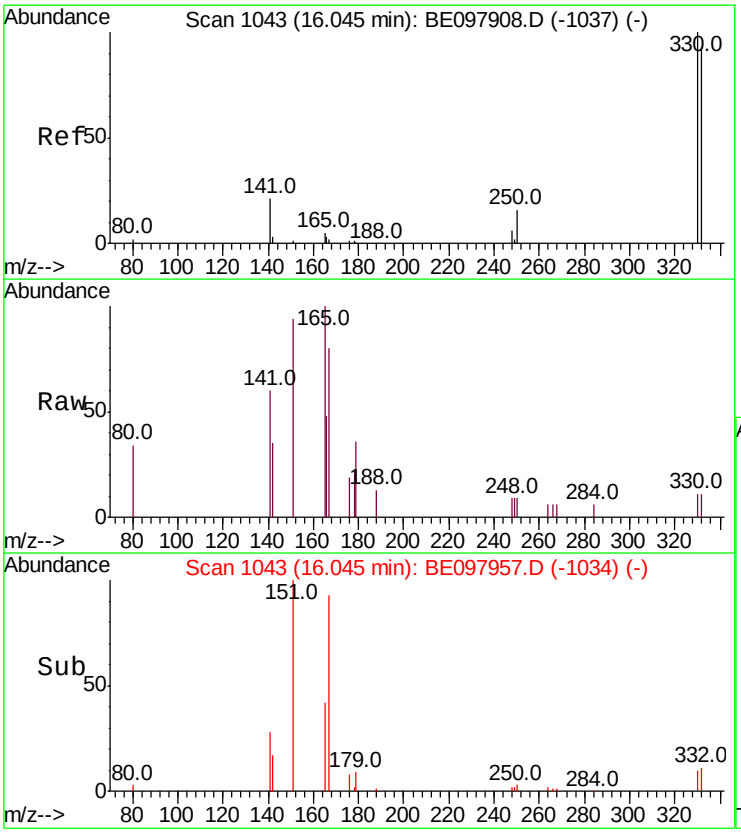
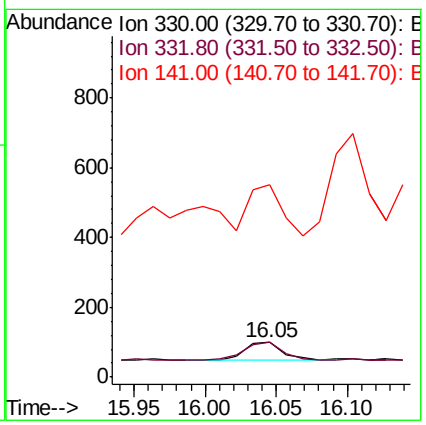
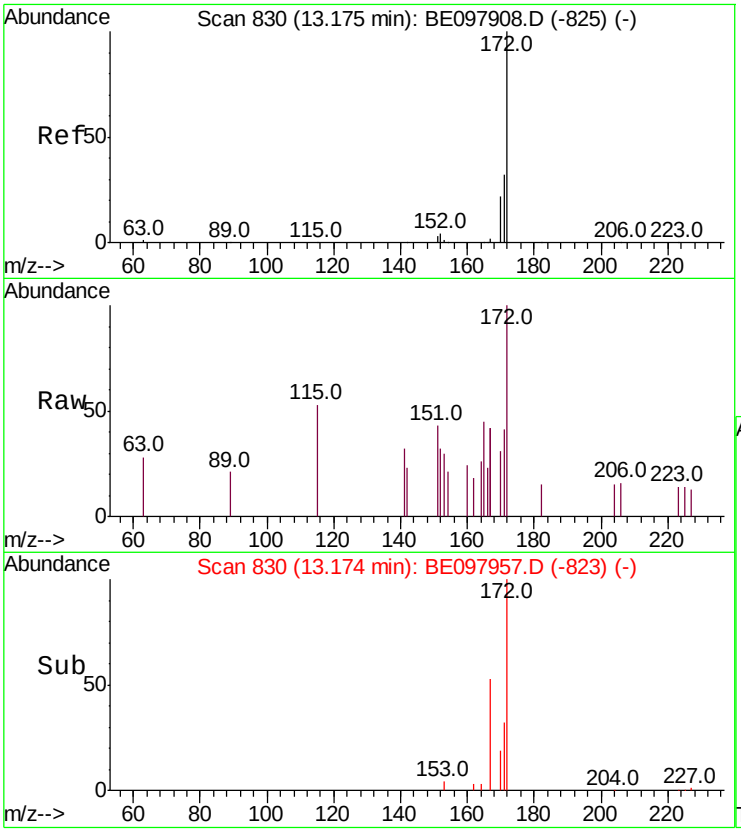



#14
2,4,6-Tribromophenol
Concen: 0.029 ng
RT: 16.05 min Scan# 1043
Delta R.T. 0.00 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:330 Resp: 104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 112.5 | 76.5 | 114.7 |
| 141 | 221.2 | 31.8 | 47.6# |

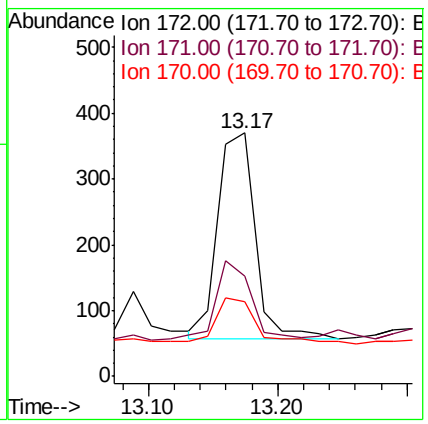





#15
2-Fluorobiphenyl
Concen: 0.023 ng
RT: 13.17 min Scan# 830
Delta R.T. -0.00 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:172 Resp: 626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 41.4 | 26.0 | 39.0# |
| 170 | 30.5 | 18.0 | 27.0# |




**Instrument :**
BNA_E
**ClientSampleId :**
AOC8-02A

**Manual Integrations APPROVED**
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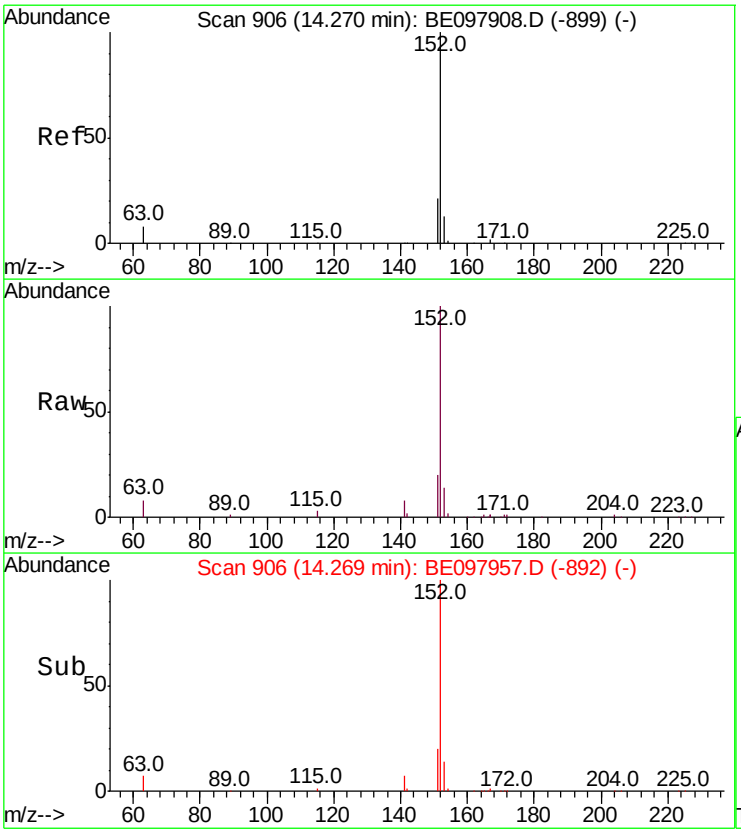
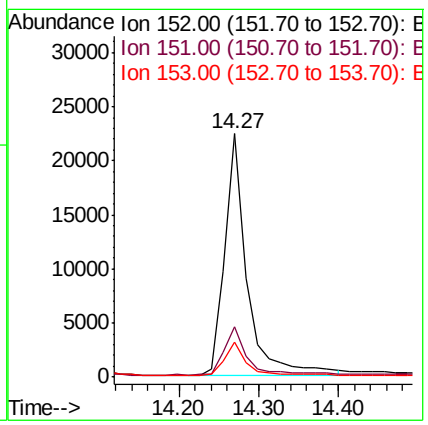
10/18/2018 1:57:45 PM

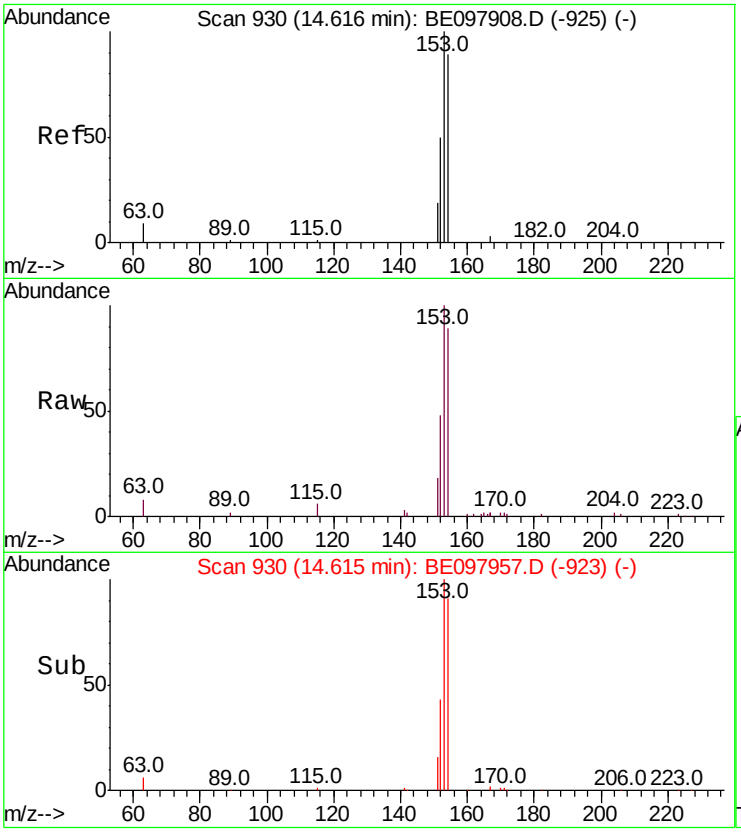



#16
Acenaphthylene
Concen: 1.436 ng
RT: 14.27 min Scan# 906
Delta R.T. -0.00 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:152 Resp: 43848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.9 | 16.1 | 24.1 |
| 153 | 13.4 | 10.9 | 16.3 |

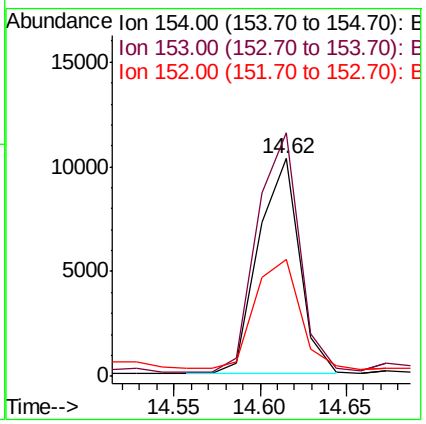





#17
Acenaphthene
Concen: 0.915 ng
RT: 14.62 min Scan# 930
Delta R.T. -0.00 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:154 Resp: 17068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.8 | 92.6 | 139.0 |
| 152 | 55.0 | 45.5 | 68.3 |




**Instrument :**
BNA_E
**ClientSampleId :**
AOC8-02A

**Manual Integrations APPROVED**
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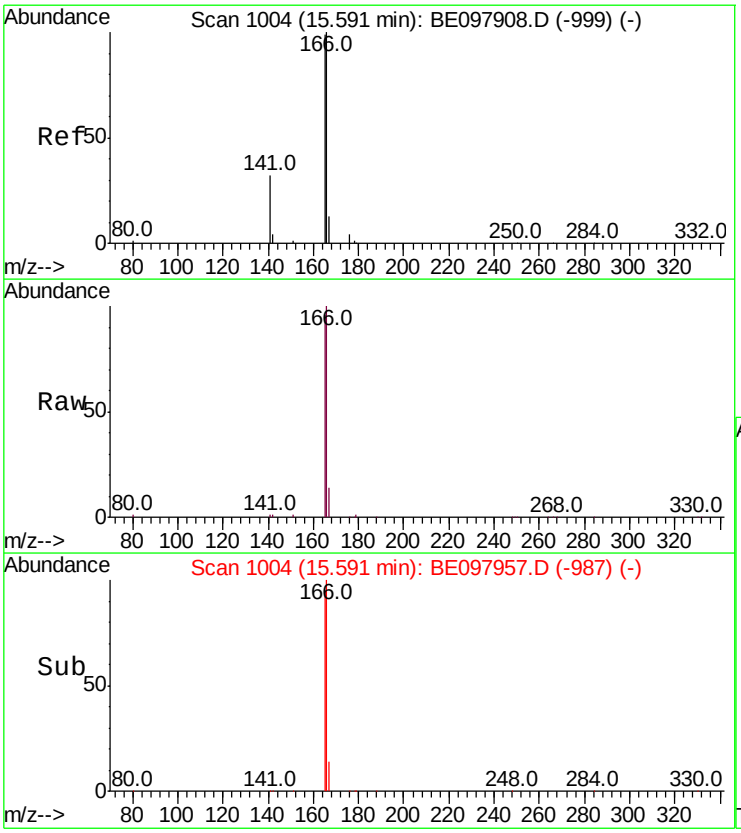
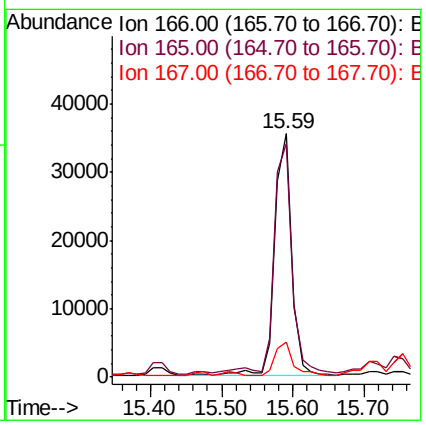
10/18/2018 1:57:45 PM

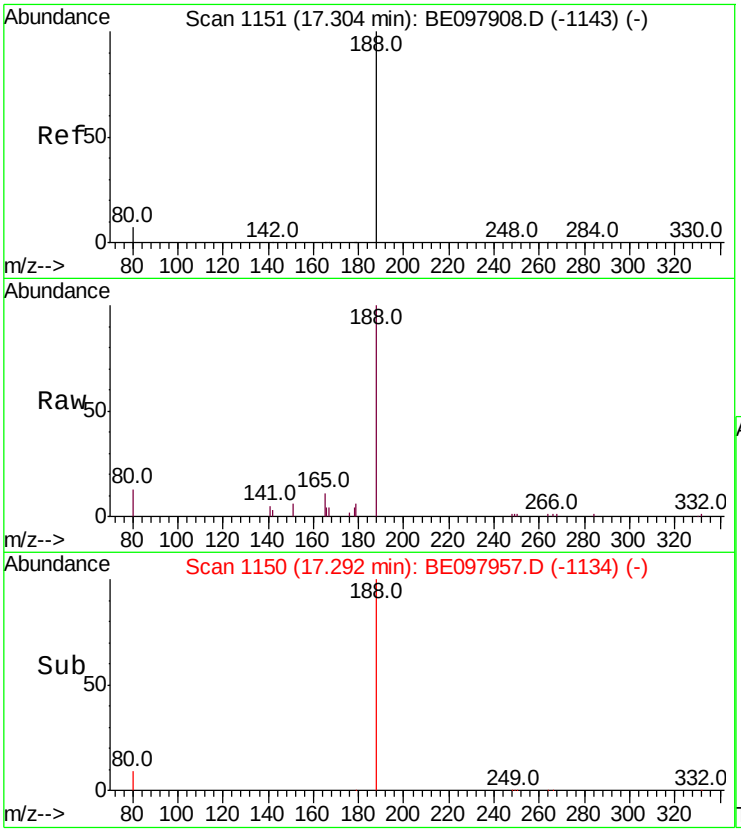



#18
Fluorene
Concen: 2.293 ng
RT: 15.59 min Scan# 1004
Delta R.T. 0.00 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:166 Resp: 58858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 96.3 | 78.2 | 117.4 |
| 167 | 15.0 | 11.0 | 16.6 |

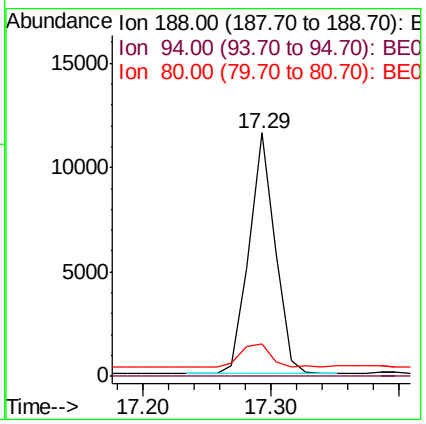





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.29 min Scan# 1150
Delta R.T. -0.01 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:188 Resp: 16456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 13.2 | 6.3 | 9.5# |




**Instrument :**
BNA_E
**ClientSampleId :**
AOC8-02A

**Manual Integrations APPROVED**
Sohil
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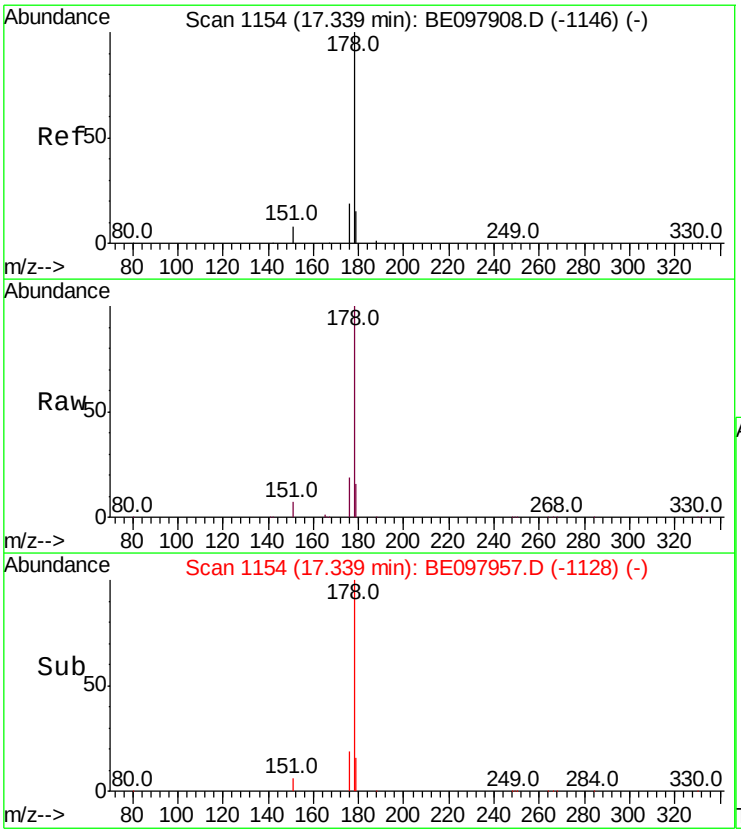
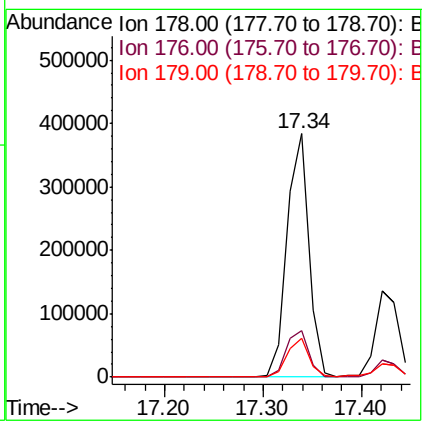
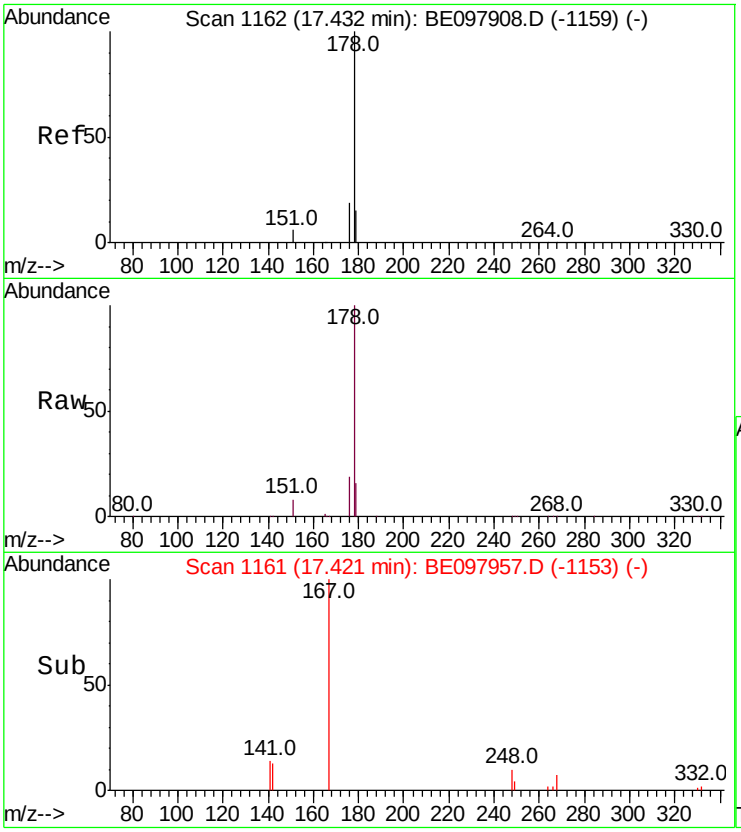



#23
Phenanthrene
Concen: 14.116 ng
RT: 17.34 min Scan# 1154
Delta R.T. 0.00 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:178 Resp: 590242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.6 | 15.5 | 23.3 |
| 179 | 15.6 | 12.2 | 18.4 |

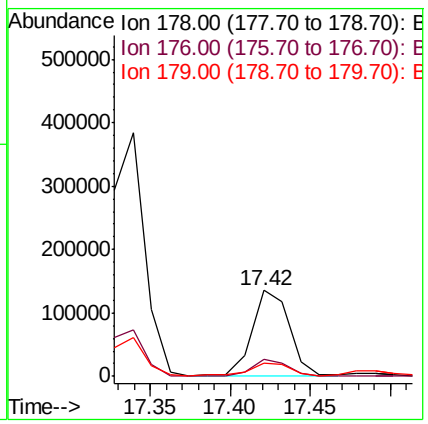





#24
Anthracene
Concen: 5.416 ng
RT: 17.42 min Scan# 1161
Delta R.T. -0.01 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:178 Resp: 213948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.7 | 14.9 | 22.3 |
| 179 | 16.0 | 11.9 | 17.9 |




**Instrument :**
BNA_E
**ClientSampleId :**
AOC8-02A

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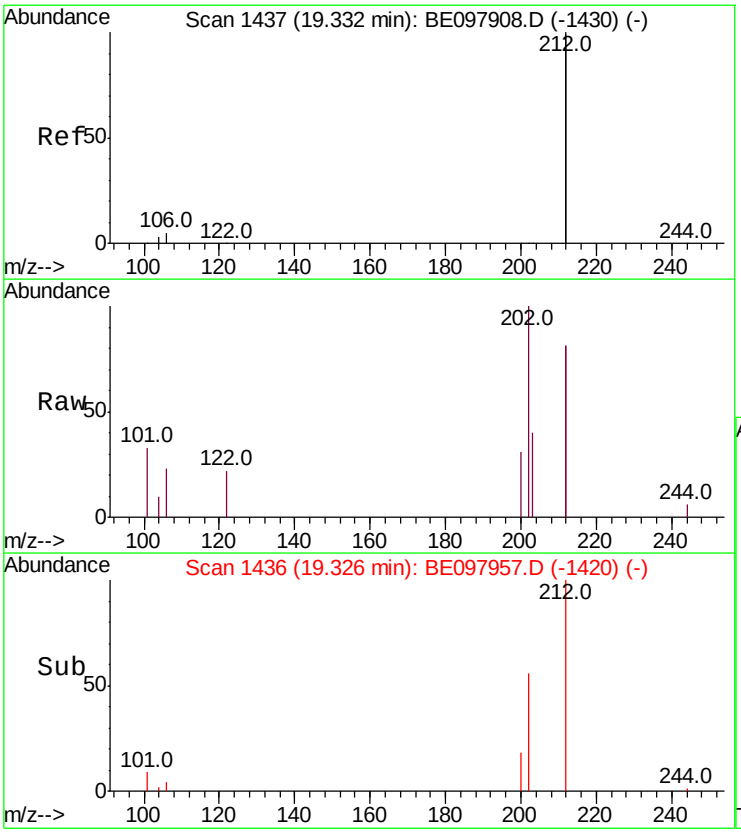
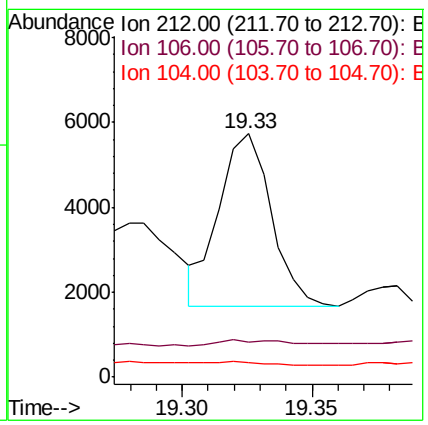
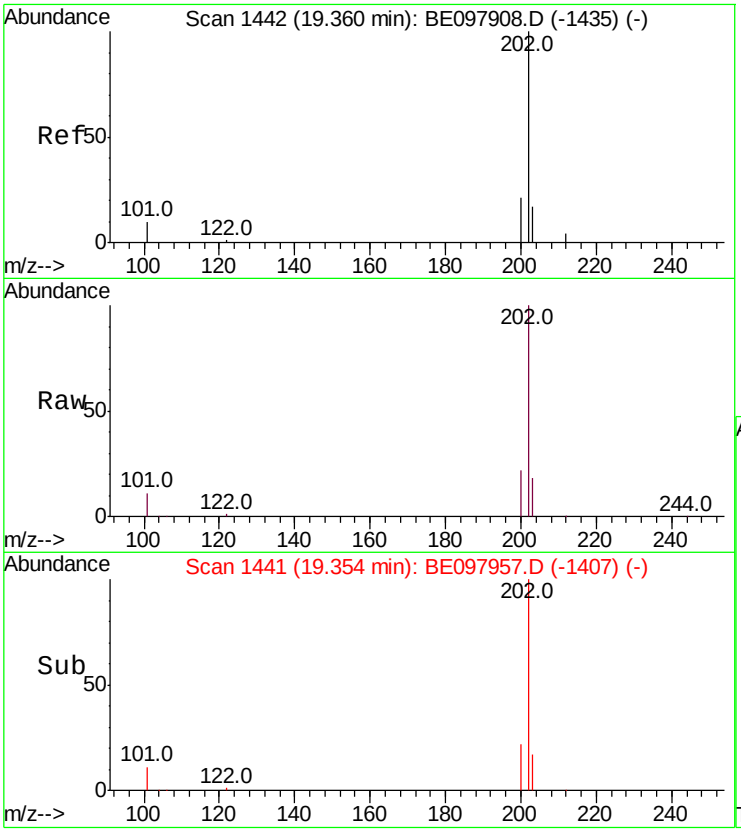



#25
Fluoranthene-d10
Concen: 0.025 ng
RT: 19.33 min Scan# 1436
Delta R.T. -0.01 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:212 Resp: 5654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 4.4 | 2.3 | 3.5# |
| 104 | 1.9 | 1.3 | 1.9# |

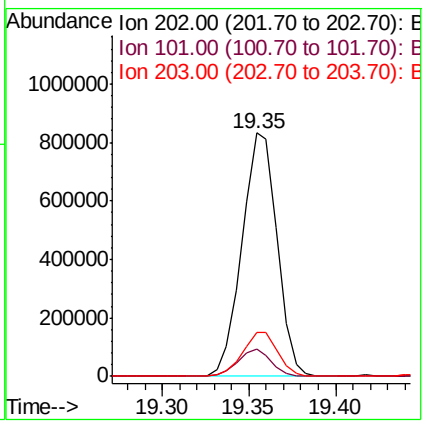





#26
Fluoranthene
Concen: 21.370 ng
RT: 19.35 min Scan# 1441
Delta R.T. -0.01 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:202 Resp: 1172442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.4 | 8.2 | 12.2 |
| 203 | 17.8 | 15.0 | 22.4 |

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**ClientSampleId :**
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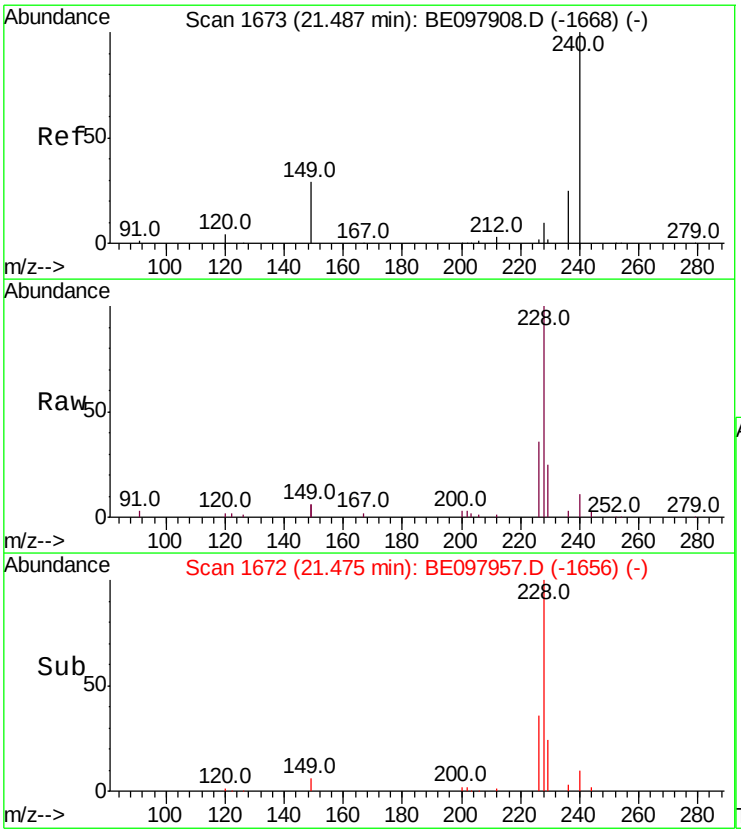
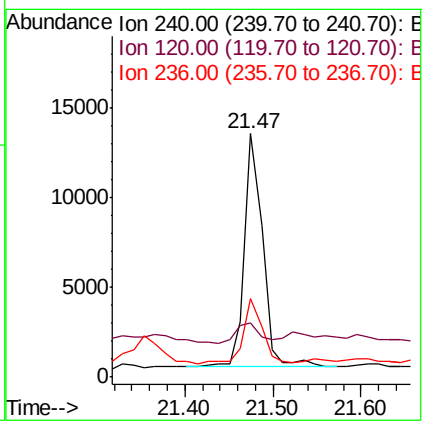
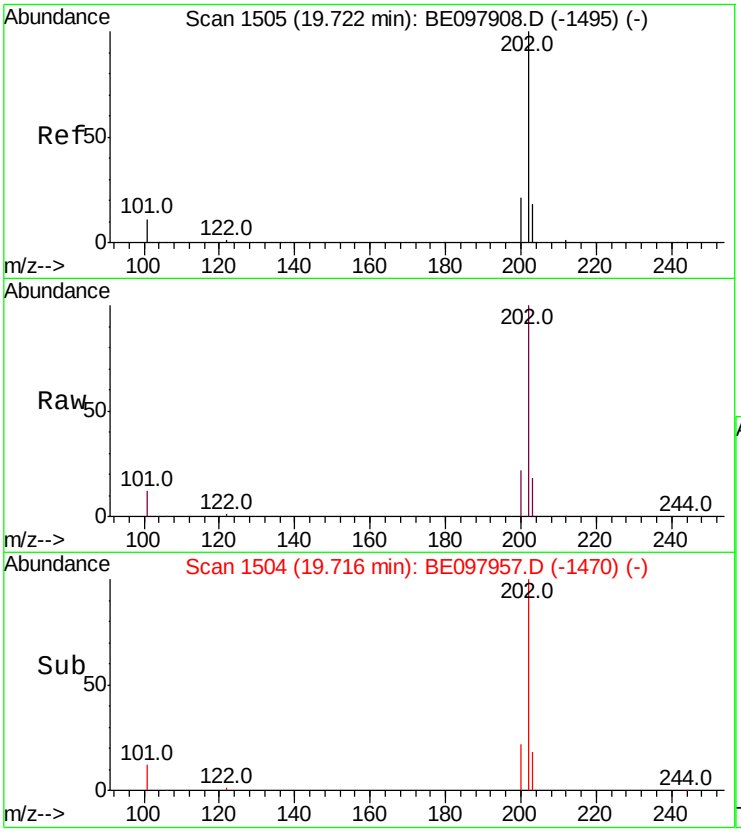



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.47 min Scan# 1672
Delta R.T. -0.01 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:240 Resp: 18799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 22.5 | 7.1 | 10.7# |
| 236 | 32.2 | 21.3 | 31.9# |






#28
Pyrene
Concen: 18.800 ng
RT: 19.72 min Scan# 1504
Delta R.T. -0.01 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:202 Resp: 1019572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.9 | 17.0 | 25.4 |
| 203 | 23.2 | 14.2 | 21.4# |

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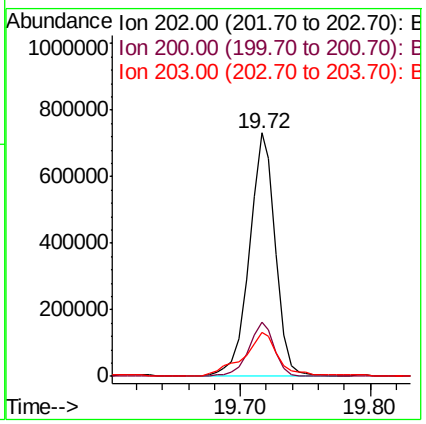
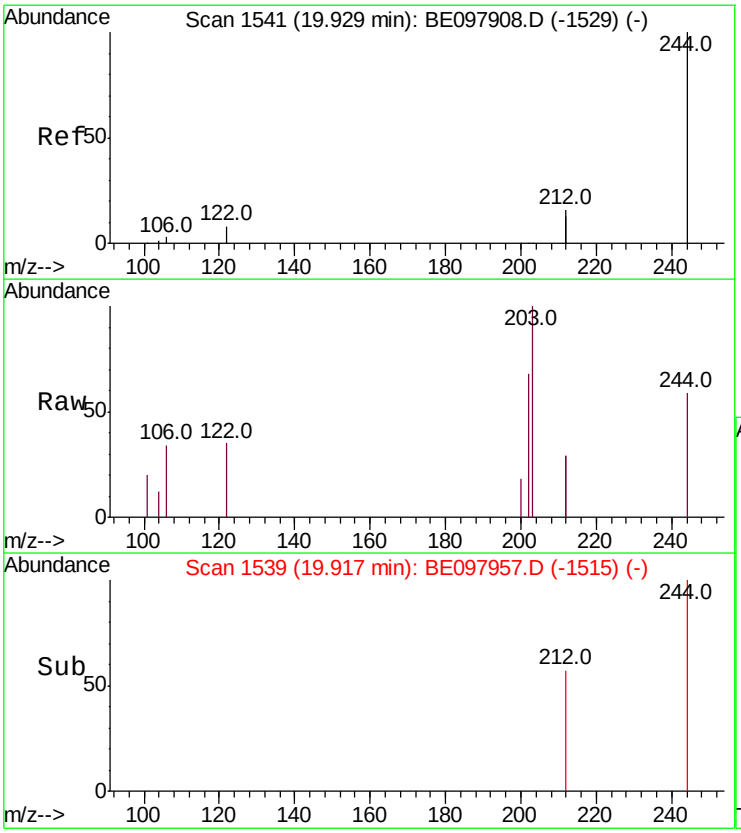
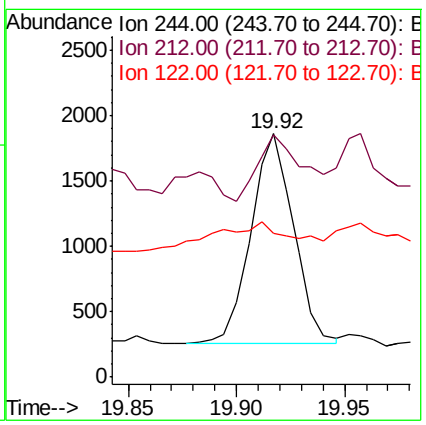


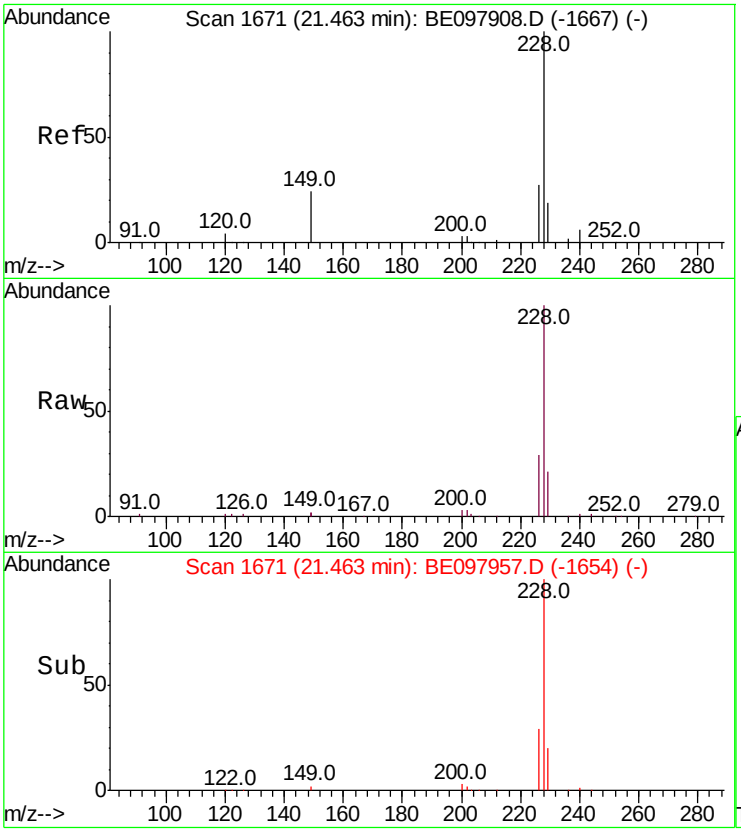




#29
Terphenyl-d14
Concen: 0.051 ng
RT: 19.92 min Scan# 1539
Delta R.T. -0.01 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:244 Resp: 2189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 99.5 | 26.2 | 39.2# |
| 122 | 59.0 | 7.7 | 11.5# |

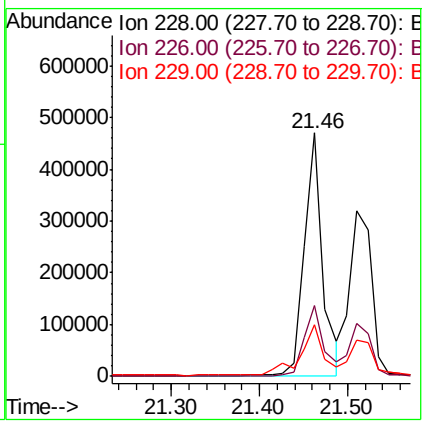





#30
Benzo(a)anthracene
Concen: 11.946 ng
RT: 21.46 min Scan# 1671
Delta R.T. -0.00 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:228 Resp: 688922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.0 | 22.6 | 33.8 |
| 229 | 21.1 | 16.9 | 25.3 |




**Instrument :**
BNA_E
**ClientSampleId :**
AOC8-02A

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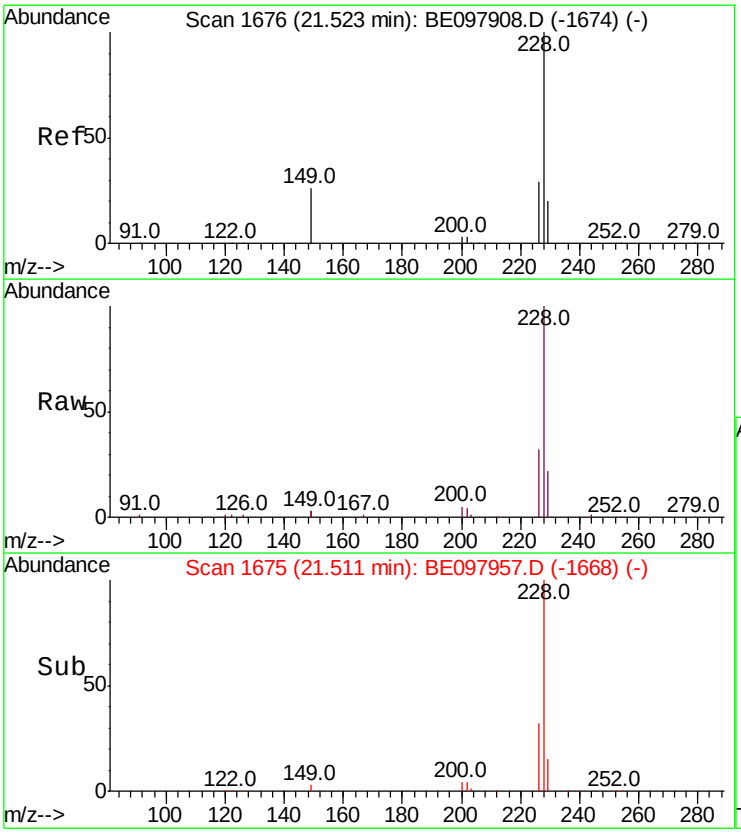
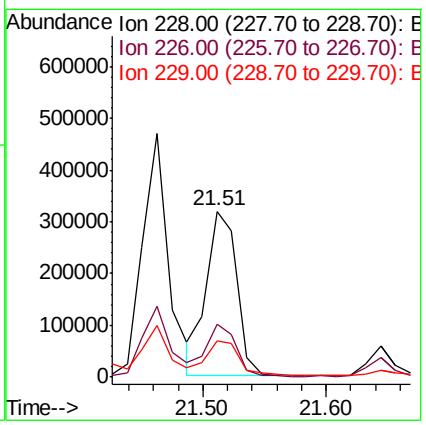
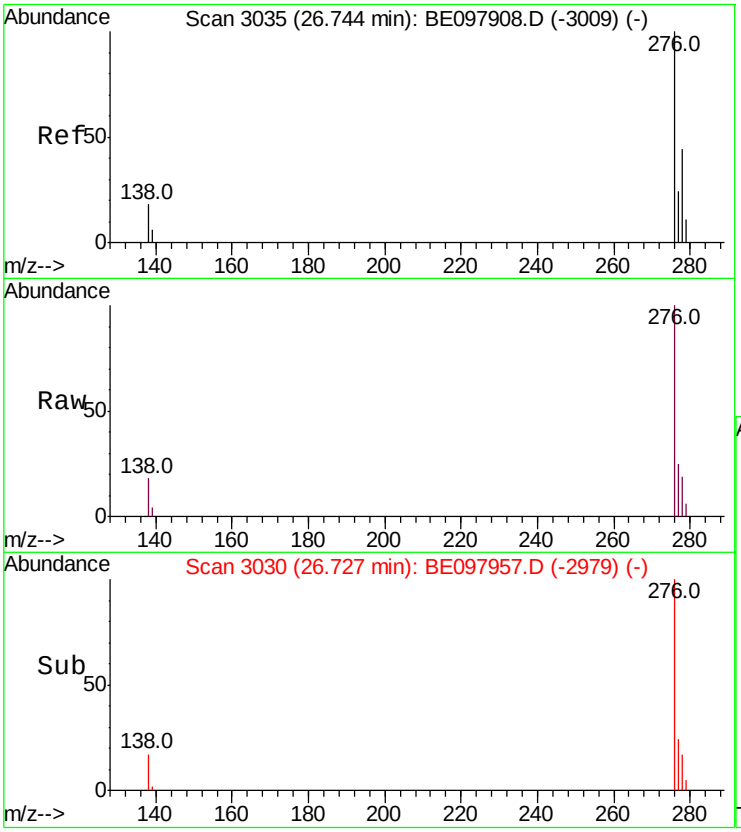



#31
Chrysene
Concen: 10.038 ng
RT: 21.51 min Scan# 1675
Delta R.T. -0.01 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:228 Resp: 548236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.7 | 24.3 | 36.5 |
| 229 | 22.1 | 17.3 | 25.9 |

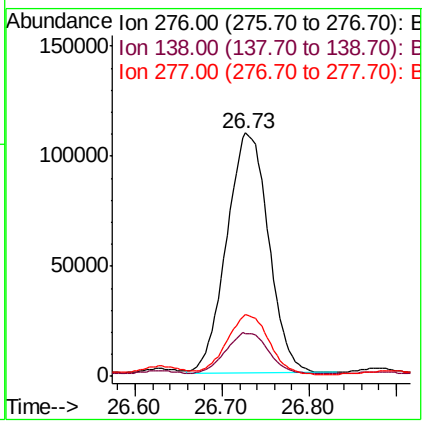





#33
Indeno(1,2,3-cd)pyrene
Concen: 8.336 ng
RT: 26.73 min Scan# 3030
Delta R.T. -0.02 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:276 Resp: 363689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 17.4 | 17.0 | 25.6 |
| 277 | 25.0 | 20.5 | 30.7 |




**Instrument :**
BNA_E
**ClientSampleId :**
AOC8-02A

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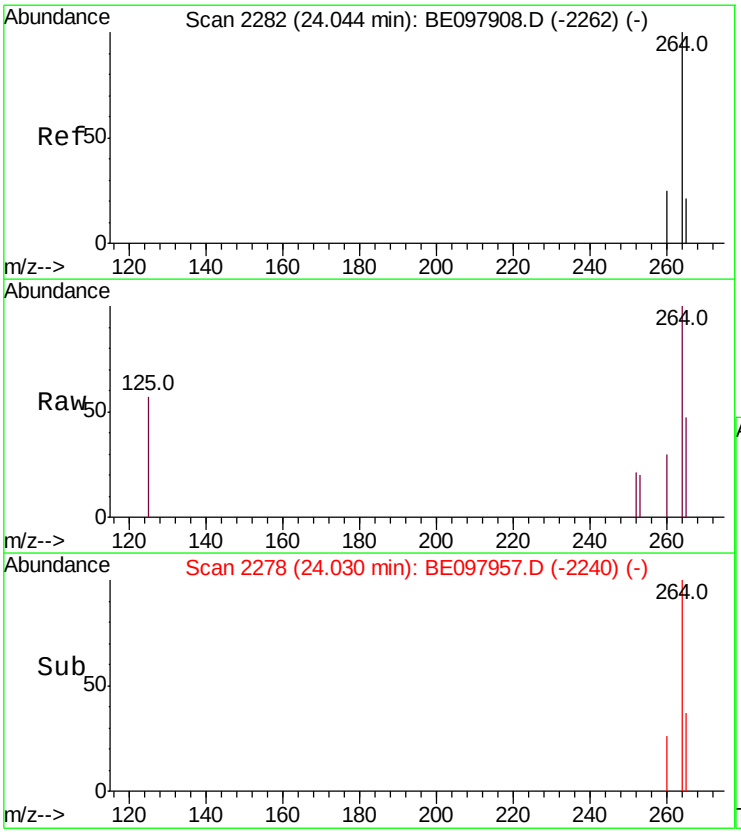
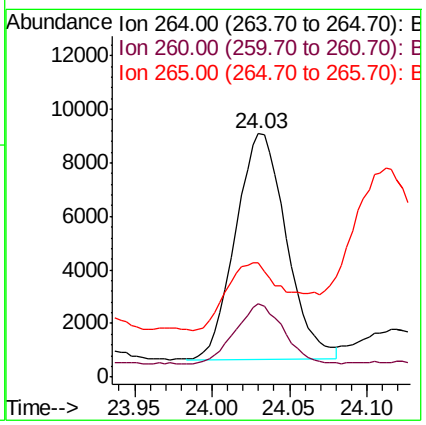
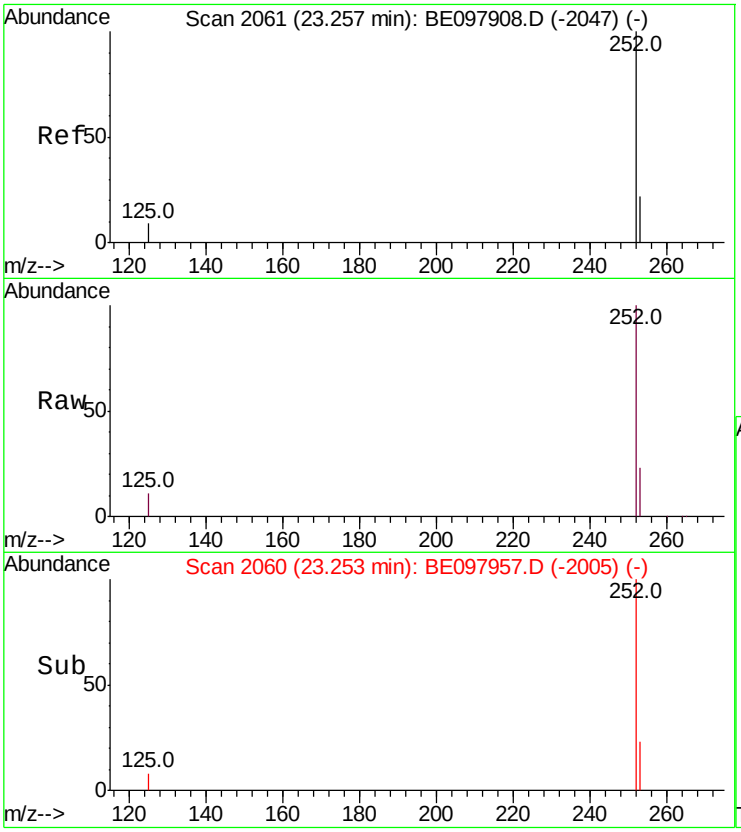



#34
Perylene-d12
Concen: 0.400 ng
RT: 24.03 min Scan# 2278
Delta R.T. -0.01 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:264 Resp: 19257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 30.1 | 21.1 | 31.7 |
| 265 | 47.2 | 29.2 | 43.8# |






#35
Benzo(b)fluoranthene
Concen: 13.178 ng
RT: 23.25 min Scan# 2060
Delta R.T. -0.00 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:252 Resp: 730228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.2 | 20.6 | 31.0 |
| 125 | 10.6 | 14.3 | 21.5# |

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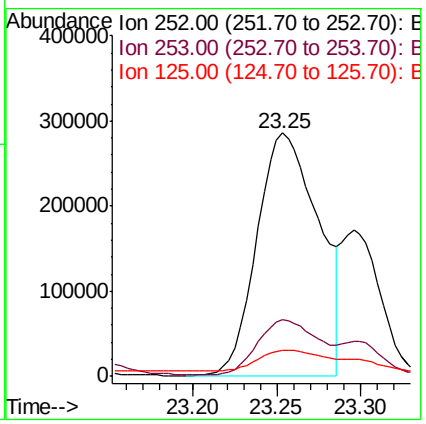
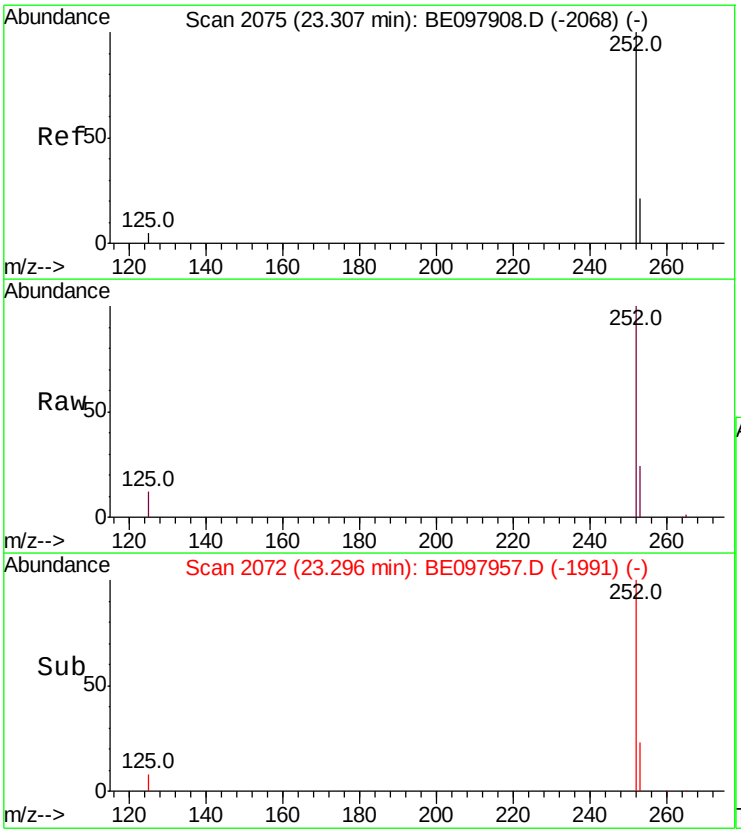
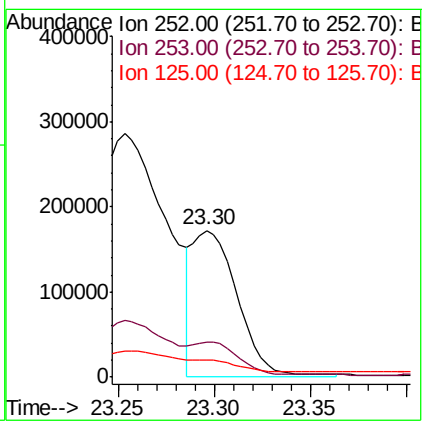


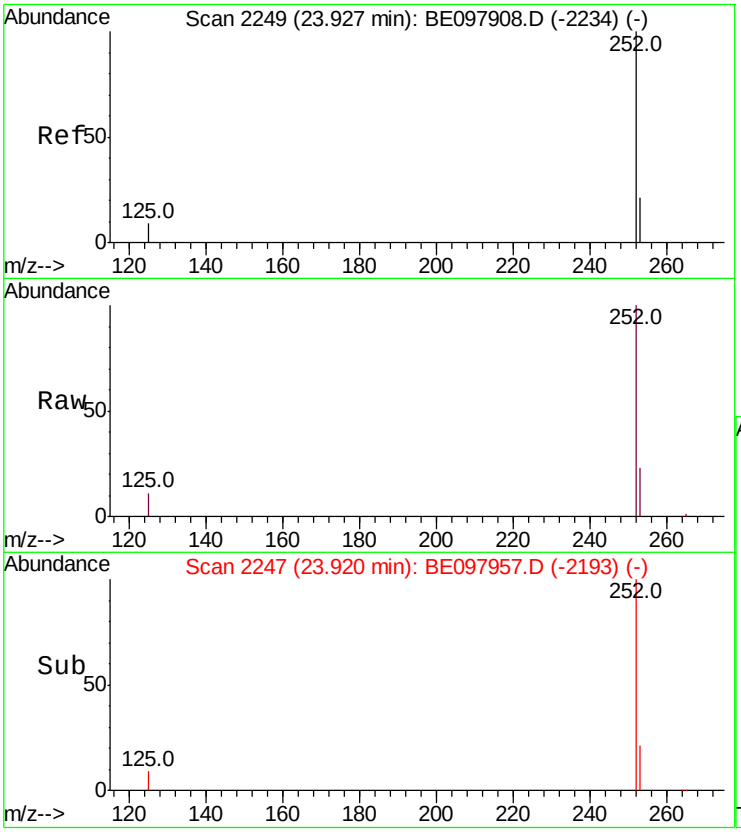




#36
Benzo(k)fluoranthene
Concen: 4.903 ng m
RT: 23.30 min Scan# 2072
Delta R.T. -0.01 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:252 Resp: 283122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.0 | 20.4 | 30.6 |
| 125 | 11.8 | 14.6 | 21.8# |






#37
Benzo(a)pyrene
Concen: 10.547 ng m
RT: 23.92 min Scan# 2247
Delta R.T. -0.01 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:252 Resp: 569717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.3 | 20.6 | 31.0 |
| 125 | 11.1 | 15.6 | 23.4# |

**Instrument :**
BNA_E
**ClientSampleId :**
AOC8-02A

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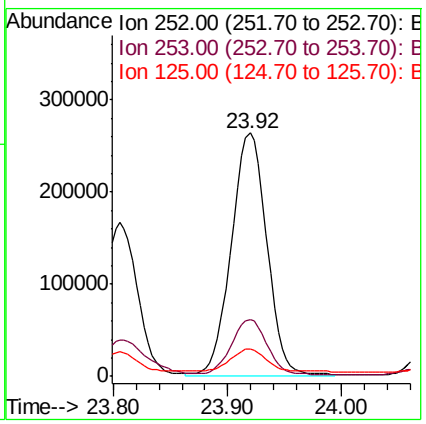
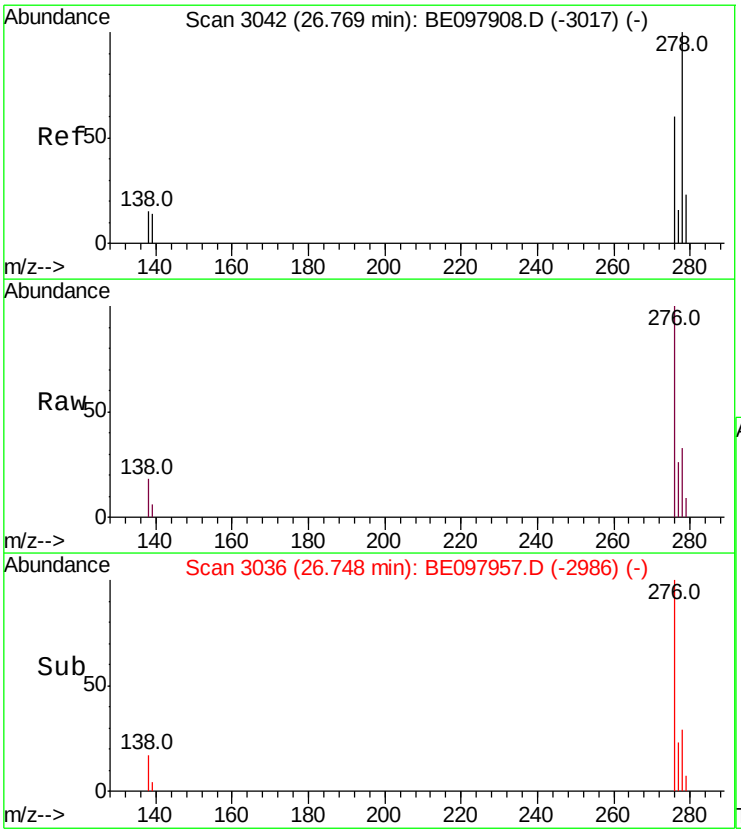
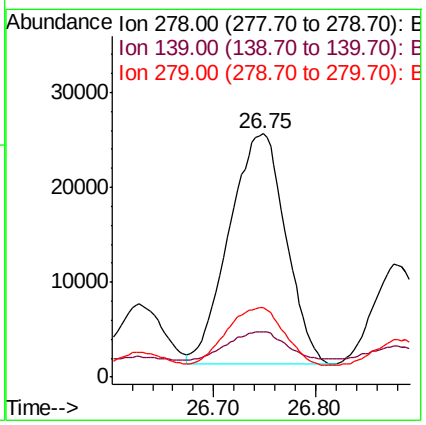


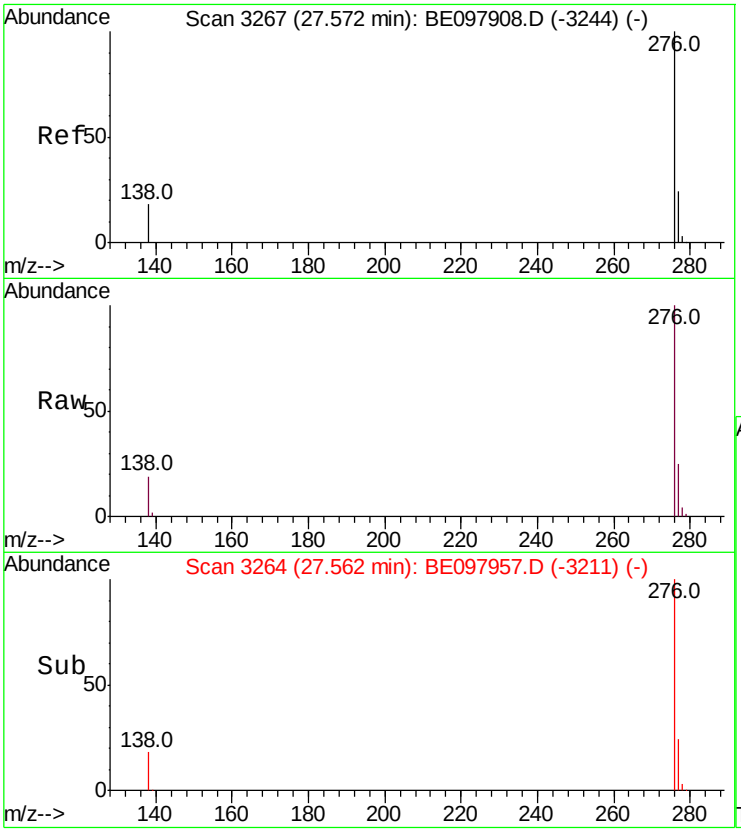




#38
Dibenzo(a,h)anthracene
Concen: 1.768 ng
RT: 26.75 min Scan# 3036
Delta R.T. -0.02 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:278 Resp: 93514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 18.7 | 16.3 | 24.5 |
| 279 | 28.5 | 21.4 | 32.2 |

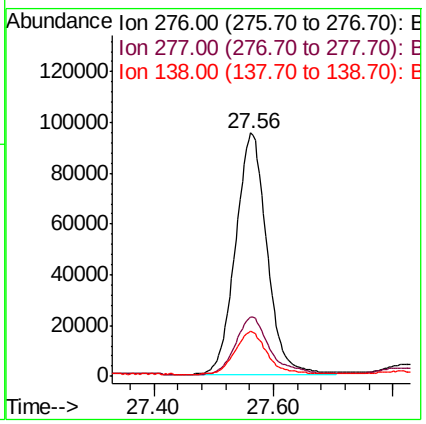





#39
Benzo(g,h,i)perylene
Concen: 6.385 ng
RT: 27.56 min Scan# 3264
Delta R.T. -0.01 min
Lab File: BE097957.D
Acq: 17 Oct 2018 21:22

Tgt Ion:276 Resp: 346015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.6 | 22.1 | 33.1 |
| 138 | 18.5 | 19.3 | 28.9# |




**Instrument :**
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**ClientSampleId :**
AOC8-02A

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