

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_E\DATA\BE091218\  
 Data File : BE097480.D  
 Acq On : 13 Sep 2018 9:14  
 Operator : SJ/JU  
 Sample : J4792-16DL 10X  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 A3YY5DL

Manual Integrations  
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 9/13/2018 5:43:07 PM

Quant Time: Sep 13 10:58:08 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE082918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Sep 13 07:48:38 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.38  | 152  | 1369     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.12 | 136  | 7654     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.01 | 164  | 4721     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.77 | 188  | 11700    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 20.98 | 240  | 13141    | 0.40   | ng/ul  | 0.01     |
| 20) Perylene-d12            | 23.22 | 264  | 12815    | 0.40   | ng/ul  | 0.01     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.72 | 152  | 271      | 0.02   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.81 | 212  | 808      | 0.02   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 3) Naphthalene              | 10.17 | 128  | 3331     | 0.178  | ng/ul# | 95       |
| 5) 2-Methylnaphthalene      | 11.80 | 142  | 1780     | 0.151  | ng/ul  | 97       |
| 7) Acenaphthylene           | 13.73 | 152  | 1055     | 0.061  | ng/ul# | 76       |
| 8) Acenaphthene             | 14.07 | 153  | 7482     | 0.506  | ng/ul  | 95       |
| 9) Fluorene                 | 15.07 | 166  | 7609     | 0.449  | ng/ul  | 92       |
| 12) Phenanthrene            | 16.80 | 178  | 160584   | 5.332  | ng/ul# | 88       |
| 13) Anthracene              | 16.89 | 178  | 34111    | 1.347  | ng/ul# | 92       |
| 15) Fluoranthene            | 18.84 | 202  | 215763   | 5.577  | ng/ul  | 84       |
| 17) Pyrene                  | 19.21 | 202  | 265005   | 7.494  | ng/ul# | 79       |
| 18) Benzo(a)anthracene      | 20.96 | 228  | 126596   | 3.750  | ng/ul# | 87       |
| 19) Chrysene                | 21.01 | 228  | 123317   | 3.171  | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 22.54 | 252  | 135751m  | 3.956  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.58 | 252  | 46667m   | 1.219  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.11 | 252  | 108786   | 3.426  | ng/ul# | 83       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.51 | 276  | 75075    | 1.824  | ng/ul# | 78       |
| 25) Dibenzo(a,h)anthracene  | 25.52 | 278  | 20357    | 0.584  | ng/ul# | 92       |
| 26) Benzo(g,h,i)perylene    | 26.22 | 276  | 70702    | 2.015  | ng/ul# | 93       |

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

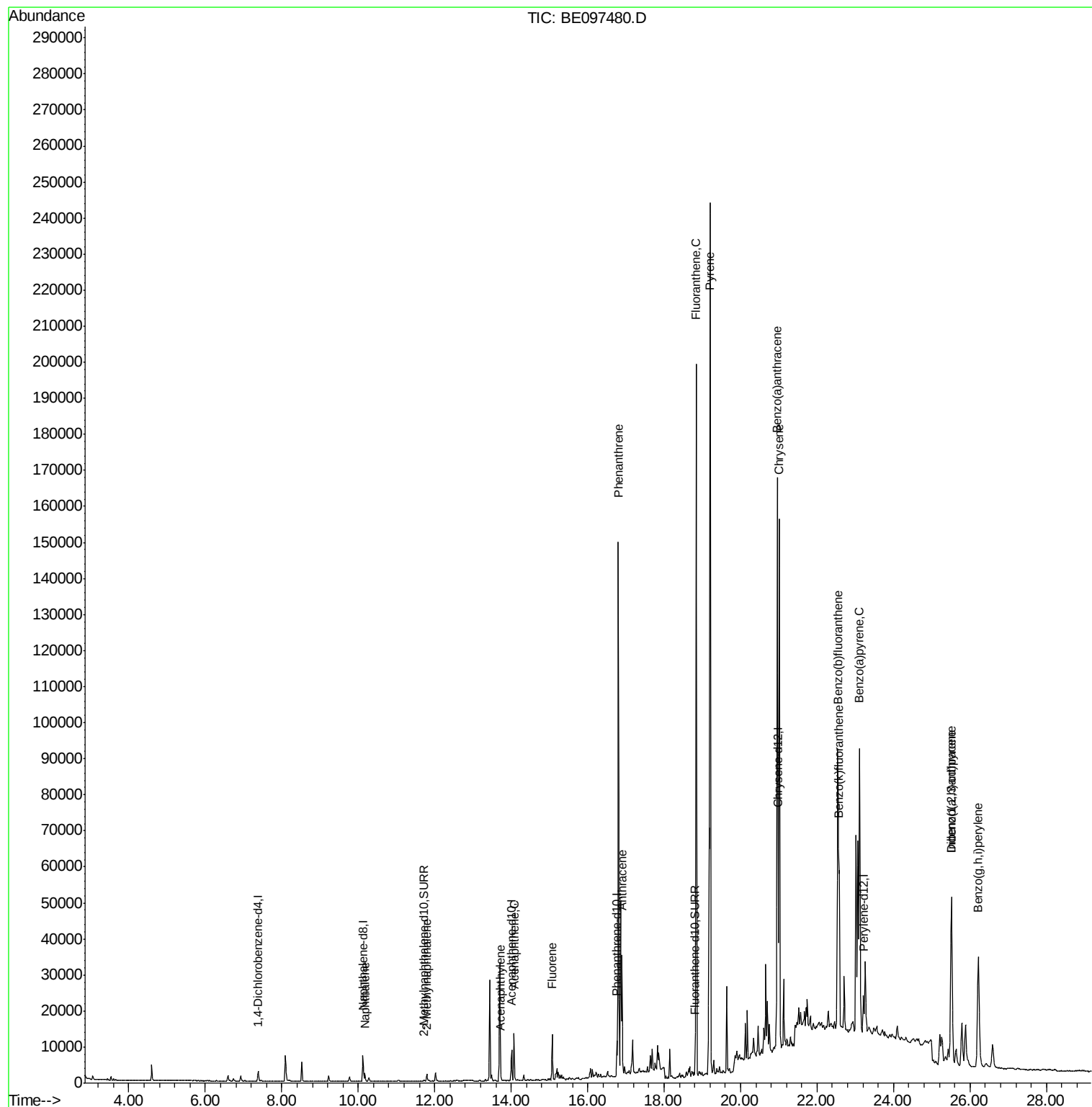
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_E\DATA\BE091218\  
Data File : BE097480.D  
Acq On : 13 Sep 2018 9:14  
Operator : SJ/JU  
Sample : J4792-16DL 10X  
Misc :  
ALS Vial : 33 Sample Multiplier: 1

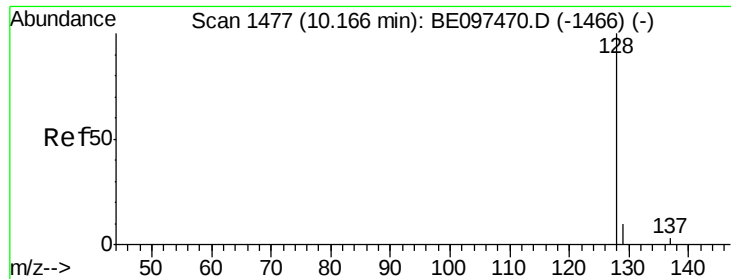
Instrument :  
BNA\_E  
ClientSampleId :  
A3YY5DL

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9/13/2018 5:43:07 PM

Quant Time: Sep 13 10:58:08 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE082918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Sep 13 07:48:38 2018  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.178 ng/ul

RT: 10.17 min Scan# 1479

Delta R.T. 0.01 min

Lab File: BE097480.D

Acq: 13 Sep 2018 9:14

Instrument :

BNA\_E

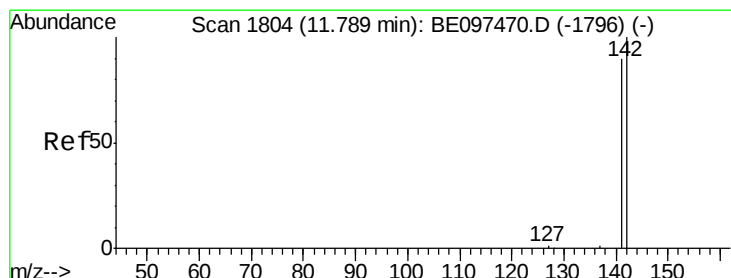
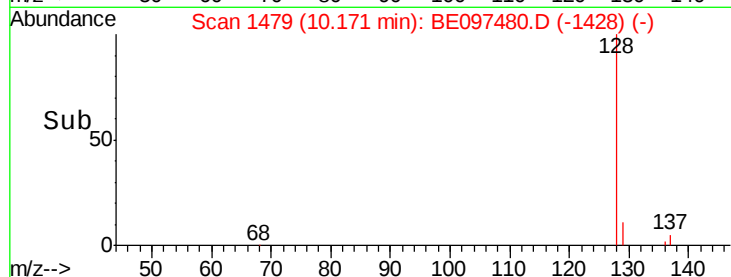
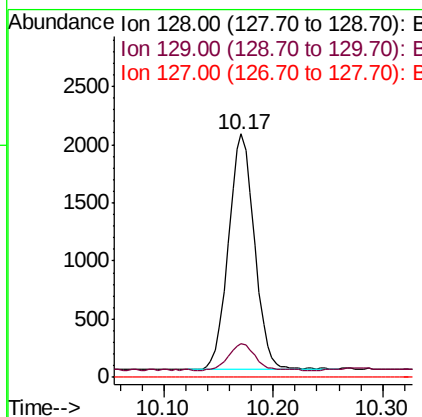
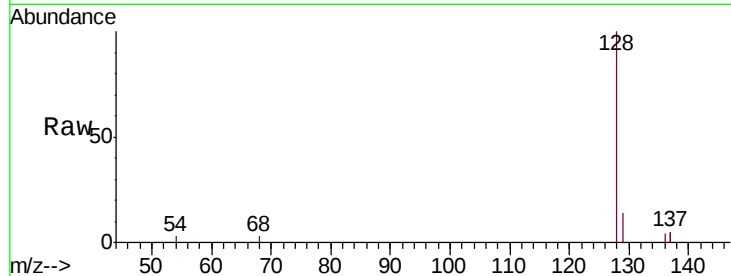
ClientSampleId :

A3YY5DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 128   | Resp: | 3331 |
| Ion Ratio | Lower | Upper |      |
| 128       | 100   |       |      |
| 129       | 13.7  | 11.3  | 16.9 |
| 127       | 0.0   | 4.0   | 6.0  |

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#5

2-Methylnaphthalene

Concen: 0.151 ng/ul

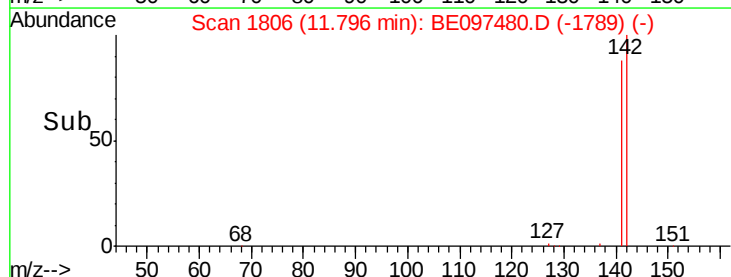
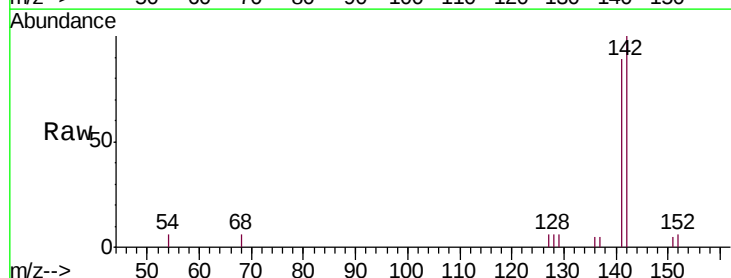
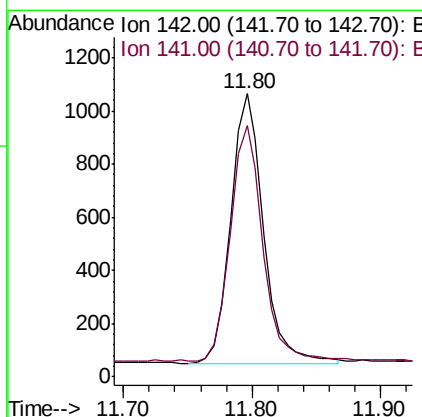
RT: 11.80 min Scan# 1806

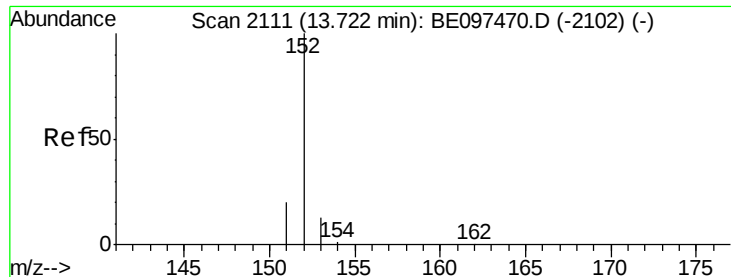
Delta R.T. 0.01 min

Lab File: BE097480.D

Acq: 13 Sep 2018 9:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 1780  |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 87.5  | 72.6  | 108.8 |





#7

Acenaphthylene

Concen: 0.061 ng/ul

RT: 13.73 min Scan# 2113

Delta R.T. 0.01 min

Lab File: BE097480.D

Acq: 13 Sep 2018 9:14

Instrument :

BNA\_E

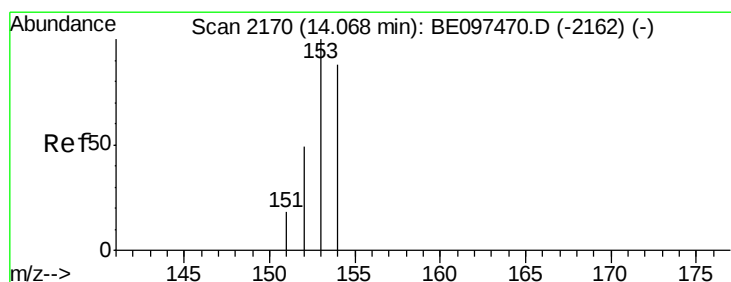
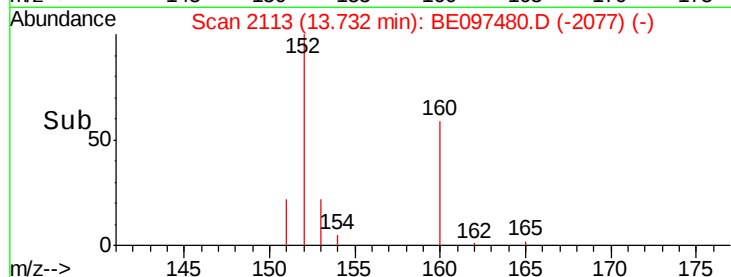
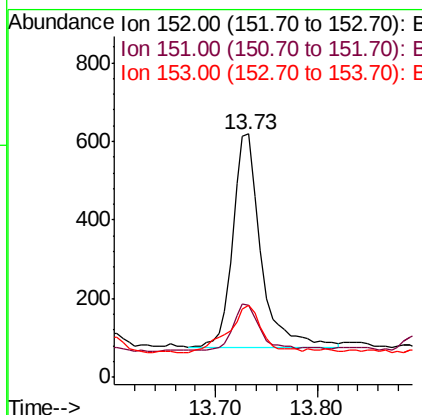
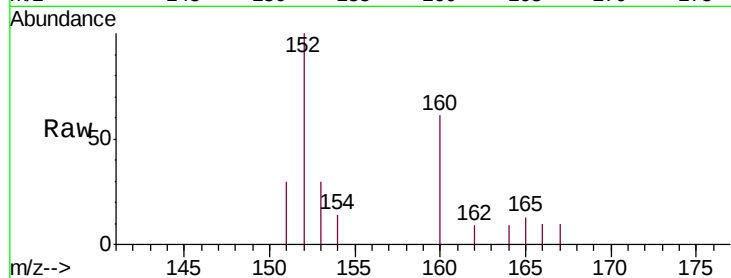
ClientSampleId :

A3YY5DL

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 152  | Resp: | 1055  |
| Ion Ratio |      | Lower | Upper |
| 152       | 100  |       |       |
| 151       | 29.7 | 17.1  | 25.7# |
| 153       | 29.6 | 12.8  | 19.2# |

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#8

Acenaphthene

Concen: 0.506 ng/ul

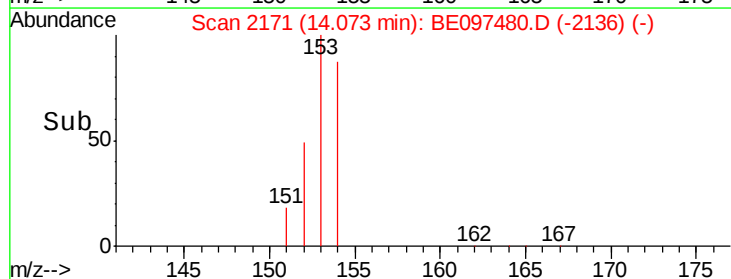
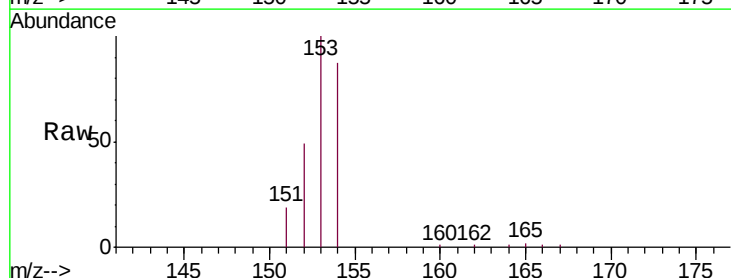
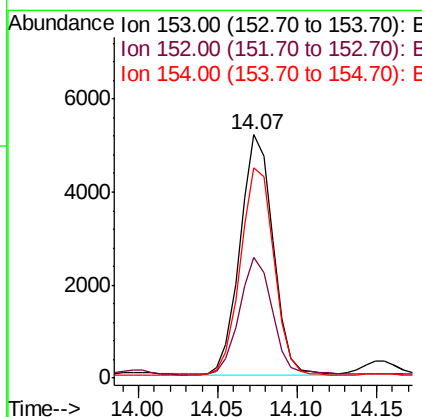
RT: 14.07 min Scan# 2171

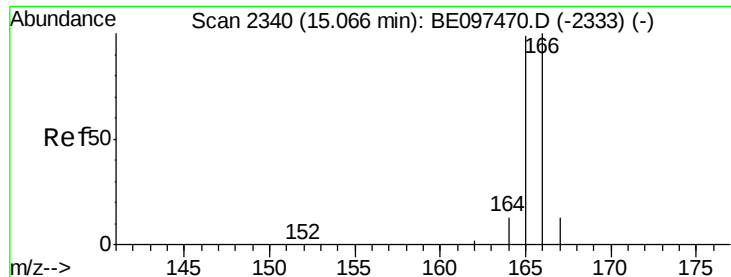
Delta R.T. 0.00 min

Lab File: BE097480.D

Acq: 13 Sep 2018 9:14

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 153  | Resp: | 7482  |
| Ion Ratio |      | Lower | Upper |
| 153       | 100  |       |       |
| 152       | 49.5 | 36.0  | 54.0  |
| 154       | 86.6 | 72.0  | 108.0 |





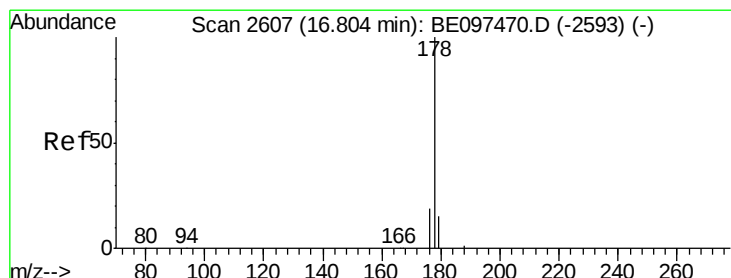
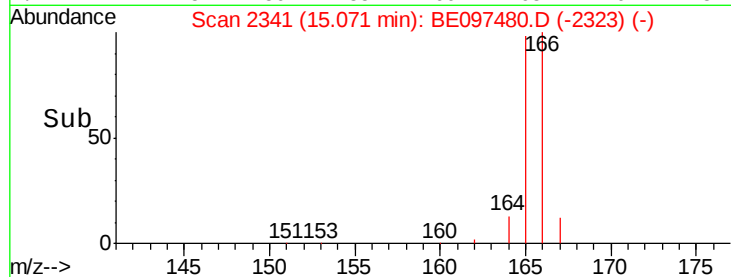
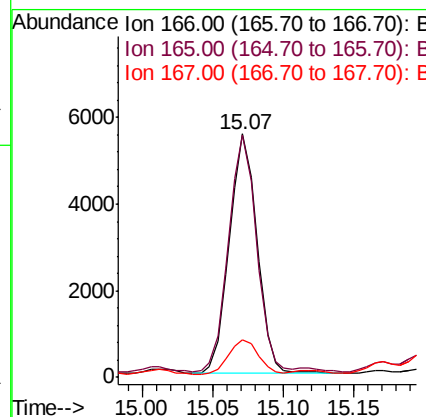
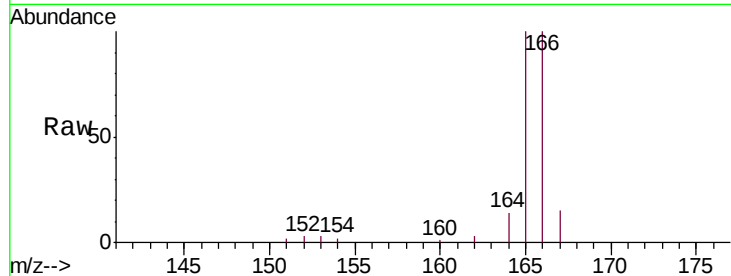
#9  
**Fluorene**  
 Concen: 0.449 ng/ul  
 RT: 15.07 min Scan# 2341  
 Delta R.T. 0.00 min  
 Lab File: BE097480.D  
 Acq: 13 Sep 2018 9:14

Instrument :  
 BNA\_E  
 ClientSampleId :  
 A3YY5DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.8  | 73.4  | 110.2 |
| 167     | 15.5  | 14.6  | 22.0  |

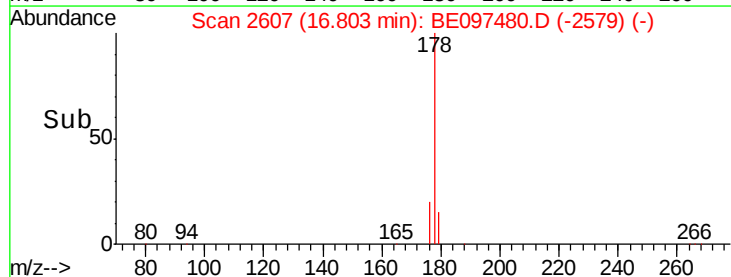
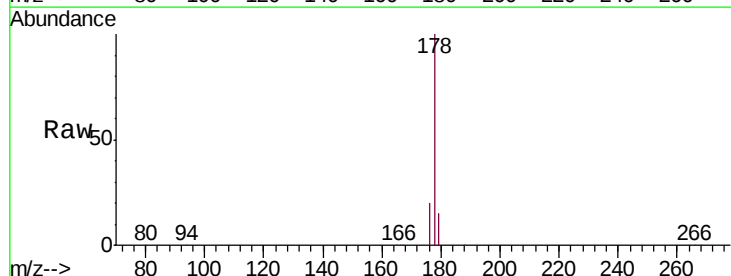
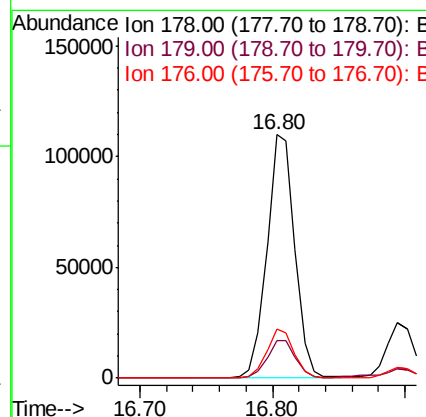
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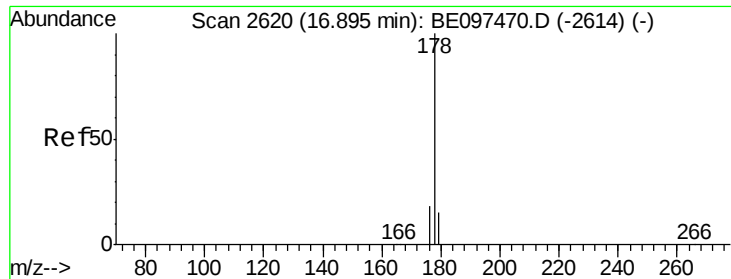
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#12  
**Phenanthrene**  
 Concen: 5.332 ng/ul  
 RT: 16.80 min Scan# 2607  
 Delta R.T. -0.00 min  
 Lab File: BE097480.D  
 Acq: 13 Sep 2018 9:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.3  | 18.4  | 27.6# |
| 176     | 19.9  | 13.6  | 20.4  |





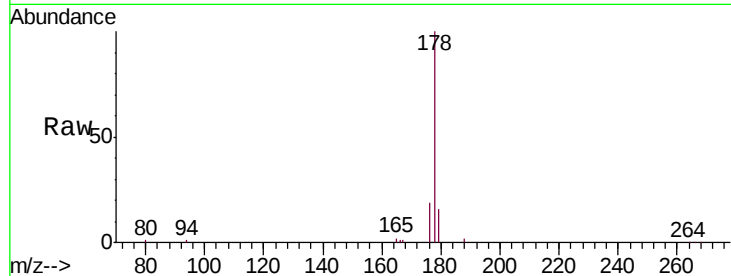
#13  
 Anthracene  
 Concen: 1.347 ng/ul  
 RT: 16.89 min Scan# 2620  
 Delta R.T. -0.00 min  
 Lab File: BE097480.D  
 Acq: 13 Sep 2018 9:14

Instrument :  
 BNA\_E  
 ClientSampleId :  
 A3YY5DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.4  | 18.1  | 27.1# |
| 176     | 19.3  | 14.7  | 22.1  |

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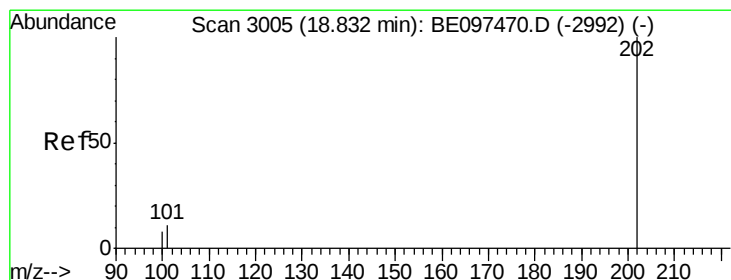
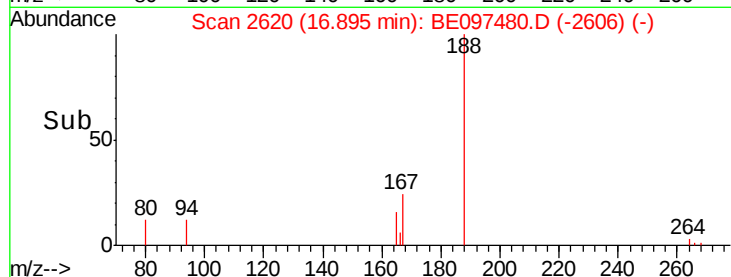
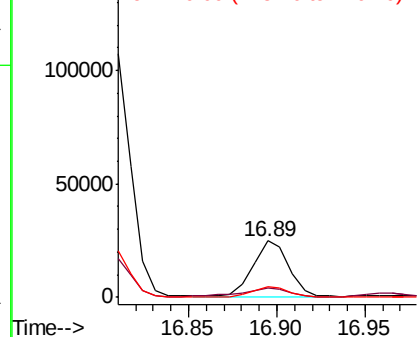


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#15  
 Fluoranthene  
 Concen: 5.577 ng/ul  
 RT: 18.84 min Scan# 3007  
 Delta R.T. 0.01 min  
 Lab File: BE097480.D  
 Acq: 13 Sep 2018 9:14

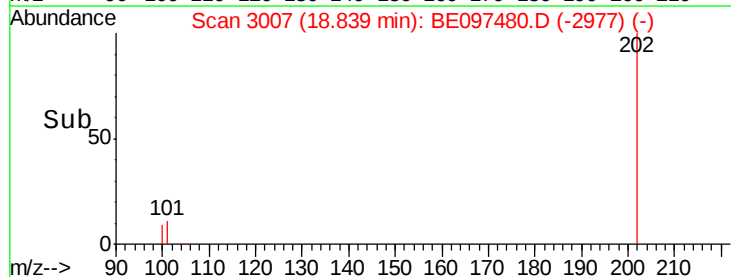
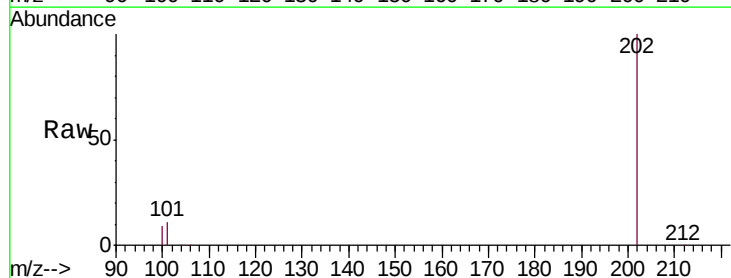
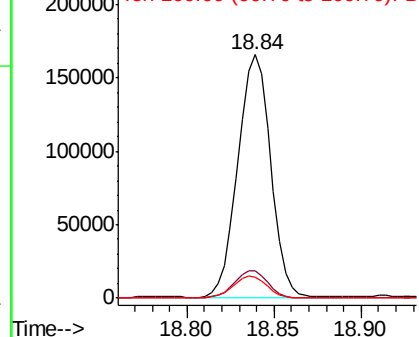
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.0  | 0.0   | 30.3  |
| 100     | 8.7   | 0.0   | 39.5  |

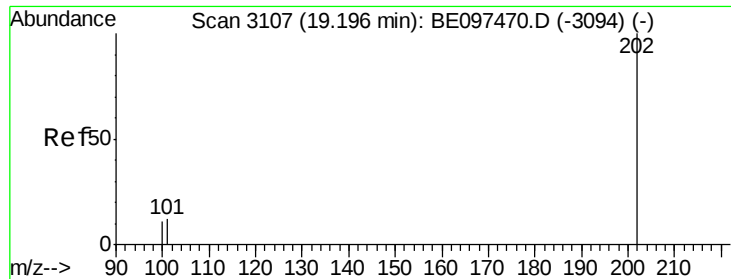
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): BE





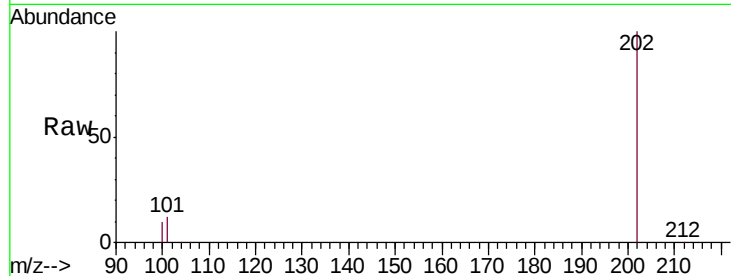
#17  
Pyrene  
Concen: 7.494 ng/ul  
RT: 19.21 min Scan# 3110  
Delta R.T. 0.01 min  
Lab File: BE097480.D  
Acq: 13 Sep 2018 9:14

Instrument :  
BNA\_E  
ClientSampled :  
A3YY5DL

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 12.2  | 18.2       | 27.4#      |
| 100     | 10.2  | 15.6       | 23.4#      |

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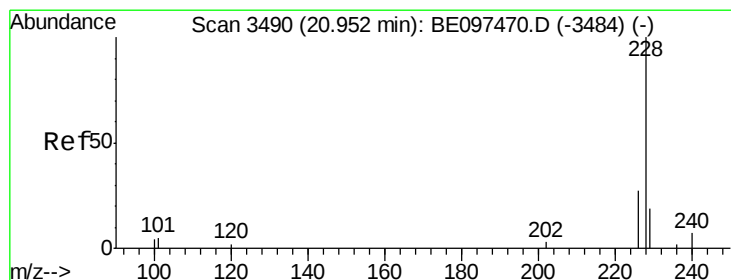
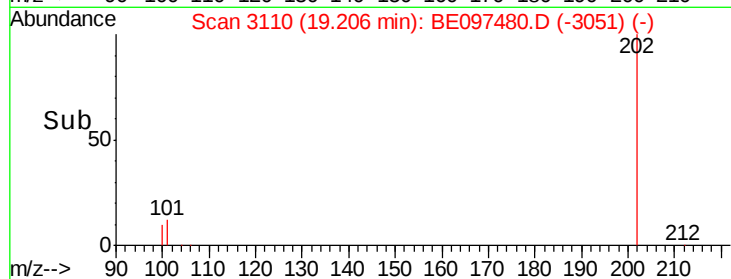
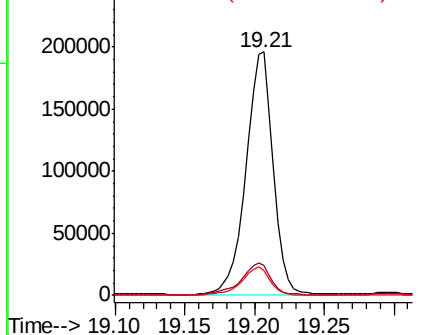


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): BE



#18  
Benzo(a)anthracene  
Concen: 3.750 ng/ul  
RT: 20.96 min Scan# 3492  
Delta R.T. 0.01 min  
Lab File: BE097480.D  
Acq: 13 Sep 2018 9:14

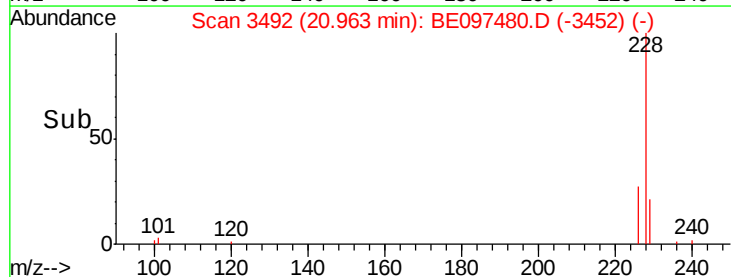
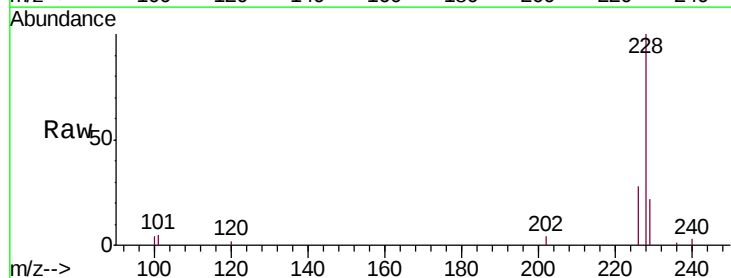
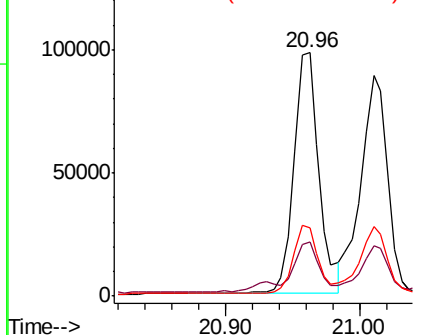
| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 22.2  | 22.8       | 34.2#      |
| 226     | 28.1  | 17.0       | 25.6#      |

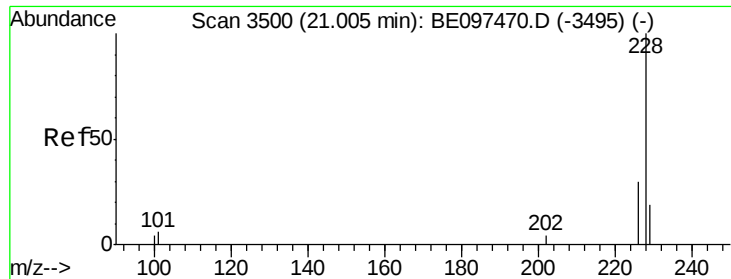
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#19

Chrysene

Concen: 3.171 ng/ul

RT: 21.01 min Scan# 3501

Delta R.T. 0.01 min

Lab File: BE097480.D

Acq: 13 Sep 2018 9:14

Instrument :

BNA\_E

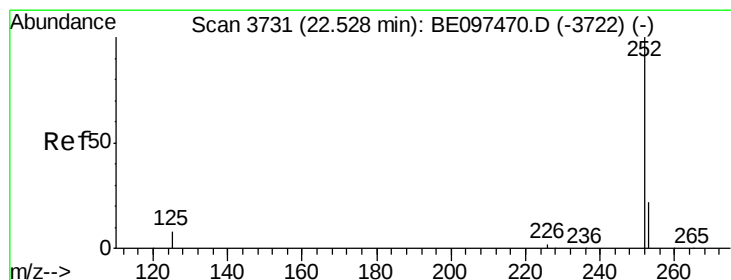
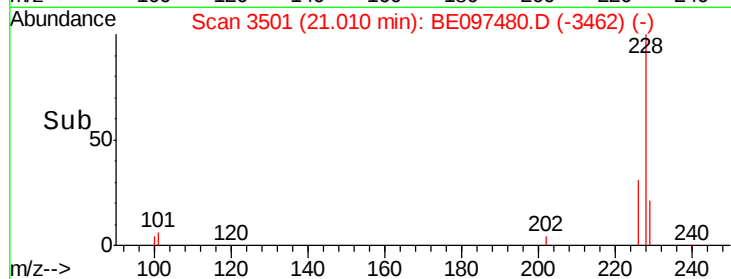
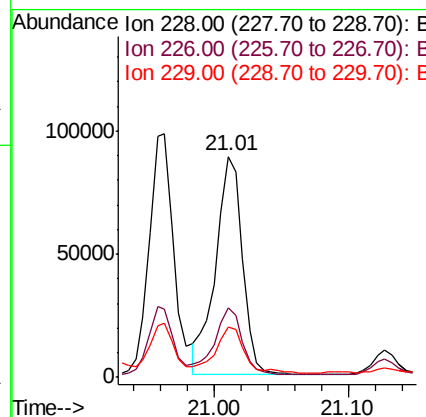
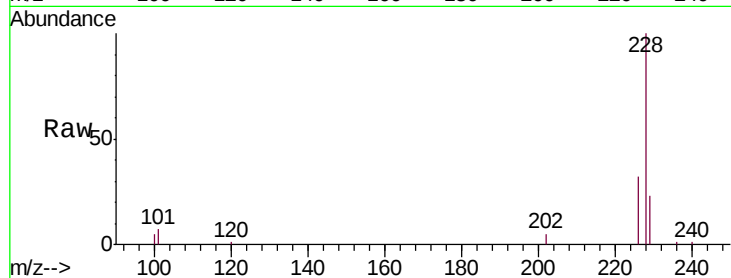
ClientSampled :

A3YY5DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 123317 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.5  | 23.4  | 35.0   |
| 229       | 22.6  | 17.7  | 26.5   |

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#21

Benzo(b)fluoranthene

Concen: 3.956 ng/ul m

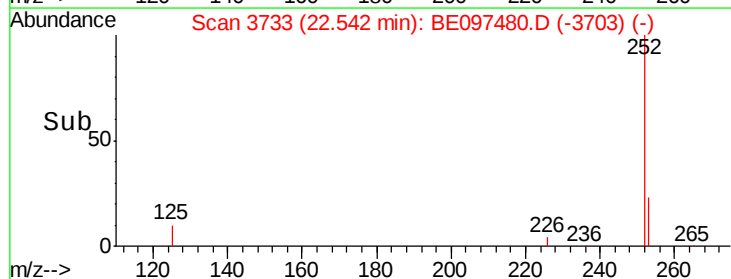
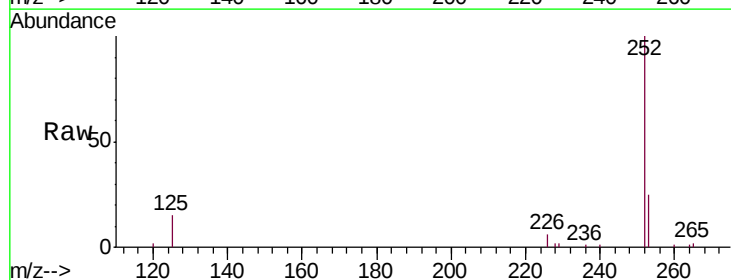
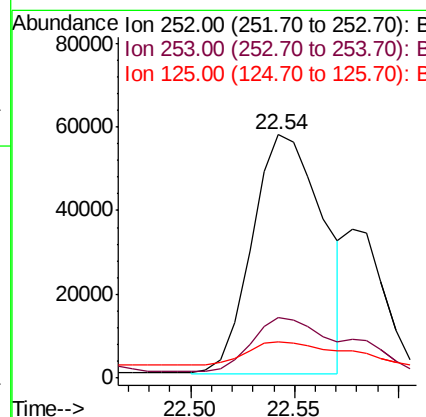
RT: 22.54 min Scan# 3733

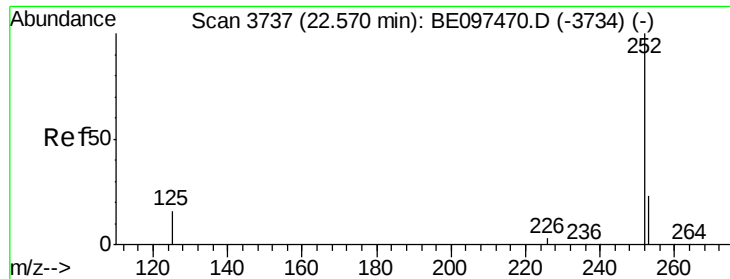
Delta R.T. 0.01 min

Lab File: BE097480.D

Acq: 13 Sep 2018 9:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 135751 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.7  | 0.0   | 64.2   |
| 125       | 15.0  | 0.0   | 35.0   |





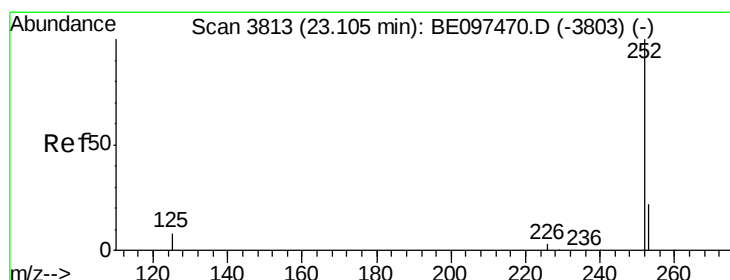
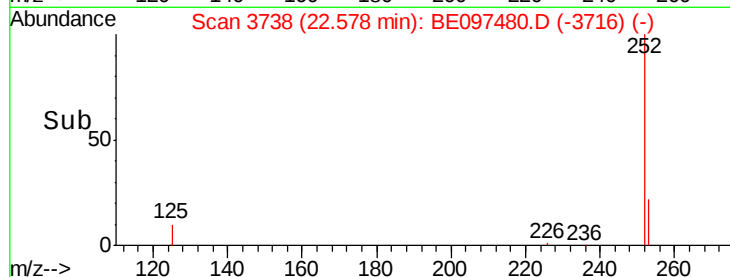
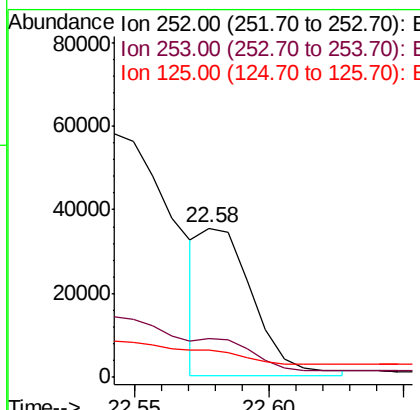
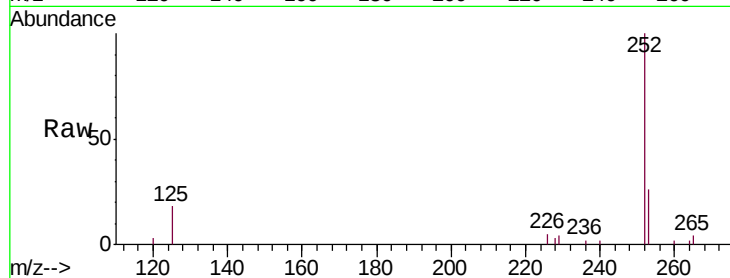
#22  
Benzo(k)fluoranthene  
Concen: 1.219 ng/ul m  
RT: 22.58 min Scan# 3738  
Delta R.T. 0.01 min  
Lab File: BE097480.D  
Acq: 13 Sep 2018 9:14

Instrument :  
BNA\_E  
ClientSampleId :  
A3YY5DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.8  | 24.5  | 36.7  |
| 125     | 18.3  | 13.7  | 20.5  |

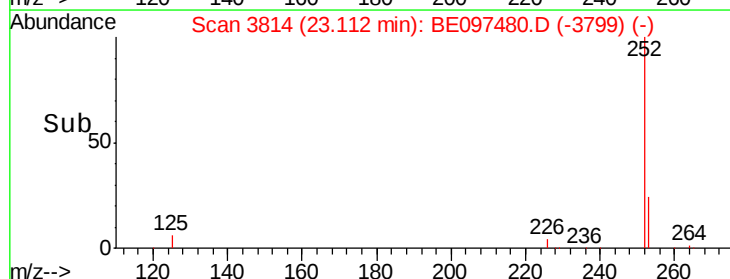
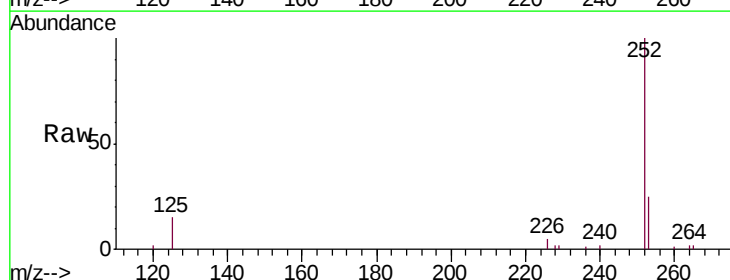
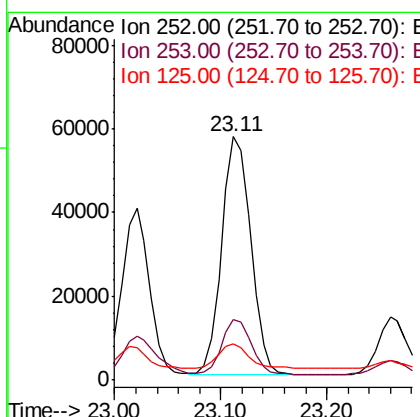
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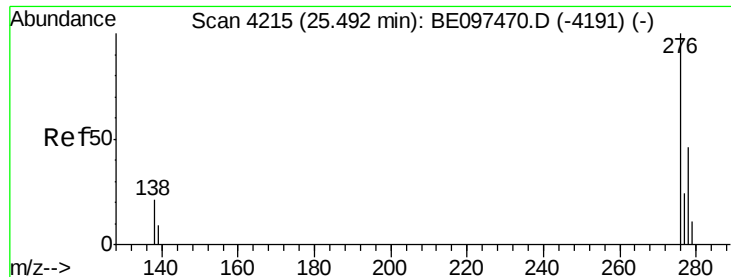
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#23  
Benzo(a)pyrene  
Concen: 3.426 ng/ul  
RT: 23.11 min Scan# 3814  
Delta R.T. 0.01 min  
Lab File: BE097480.D  
Acq: 13 Sep 2018 9:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.9  | 28.5  | 42.7# |
| 125     | 14.8  | 18.1  | 27.1# |





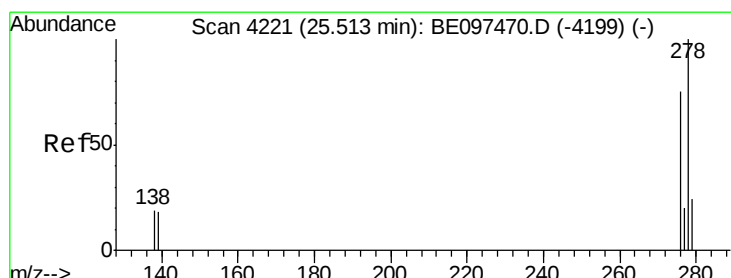
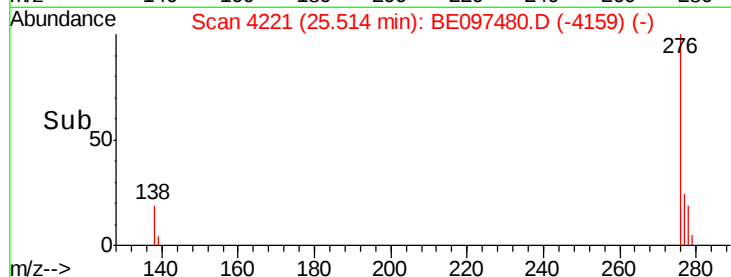
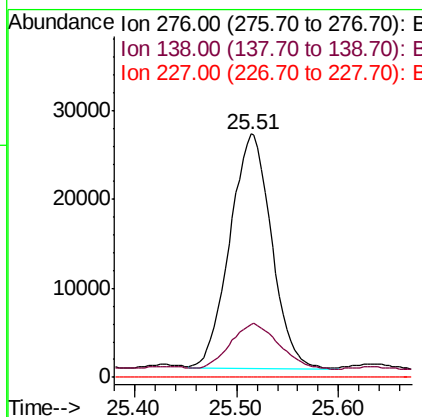
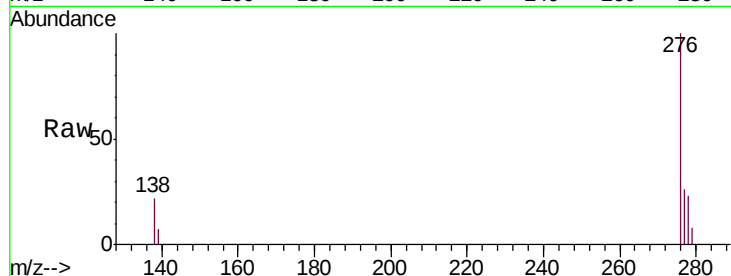
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.824 ng/ul  
 RT: 25.51 min Scan# 4221  
 Delta R.T. 0.02 min  
 Lab File: BE097480.D  
 Acq: 13 Sep 2018 9:14

Instrument :  
 BNA\_E  
 ClientSampleId :  
 A3YY5DL

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 22.7  | 28.0       | 42.0#      |
| 227     | 0.0   | 8.0        | 12.0#      |

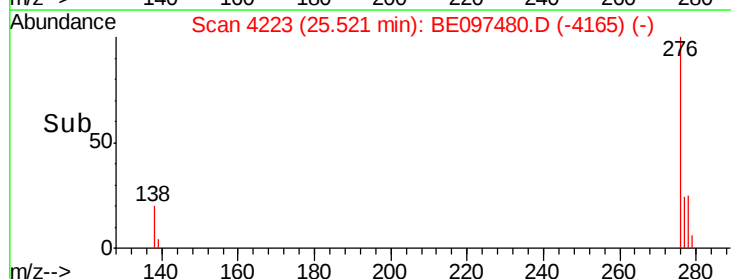
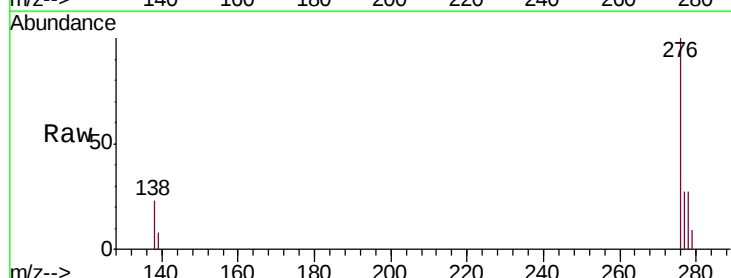
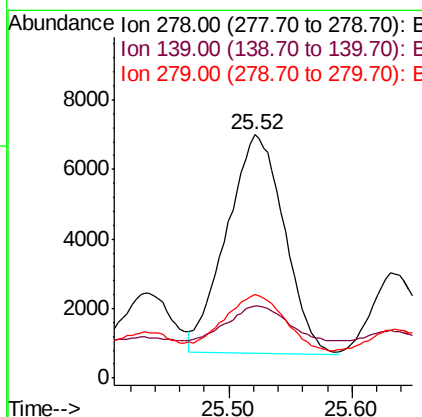
Manual Integrations  
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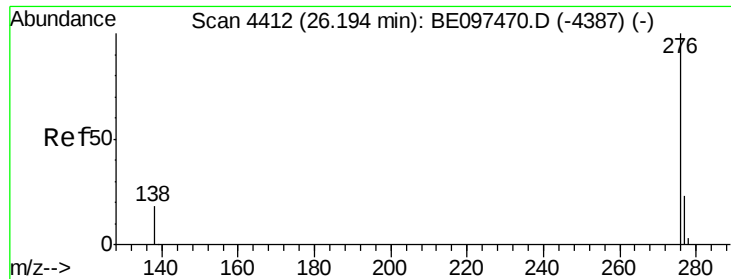
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#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.584 ng/ul  
 RT: 25.52 min Scan# 4223  
 Delta R.T. 0.01 min  
 Lab File: BE097480.D  
 Acq: 13 Sep 2018 9:14

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 278     | 100   |            |            |
| 139     | 29.4  | 17.4       | 26.0#      |
| 279     | 34.1  | 25.9       | 38.9       |





#26  
 Benzo(g,h,i)perylene  
 Concen: 2.015 ng/ul  
 RT: 26.22 min Scan# 4419  
 Delta R.T. 0.03 min  
 Lab File: BE097480.D  
 Acq: 13 Sep 2018 9:14

Instrument :  
 BNA\_E  
 ClientSampleId :  
 A3YY5DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.3  | 21.8  | 32.8# |
| 277     | 26.4  | 20.5  | 30.7  |

Manual Integrations  
 APPROVED

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