

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE110617\  
 Data File : BE094754.D  
 Acq On : 6 Nov 2017 15:43  
 Operator : SJ/JU  
 Sample : I6150-05 5X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 B-3(1-2)-102517

Manual Integrations  
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 11/7/2017 5:41:37 PM

Quant Time: Nov 07 11:29:04 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE102517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 07 01:37:48 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.90  | 152  | 1399     | 0.40   | ng/ul  | -0.02    |
| 2) Naphthalene-d8           | 10.69 | 136  | 7943     | 0.40   | ng/ul  | -0.02    |
| 6) Acenaphthene-d10         | 14.51 | 164  | 5341     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.26 | 188  | 8980     | 0.40   | ng/ul  | -0.02    |
| 16) Chrysene-d12            | 21.44 | 240  | 8489     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.97 | 264  | 9177     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.27 | 152  | 714      | 0.06   | ng/ul  | -0.03    |
| 14) Fluoranthene-d10        | 19.29 | 212  | 908      | 0.03   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 3) Naphthalene              | 10.74 | 128  | 479086   | 24.669 | ng/ul# | 95       |
| 5) 2-Methylnaphthalene      | 12.34 | 142  | 138820   | 10.217 | ng/ul  | 98       |
| 7) Acenaphthylene           | 14.24 | 152  | 16289    | 0.674  | ng/ul# | 89       |
| 8) Acenaphthene             | 14.57 | 153  | 107829   | 6.211  | ng/ul  | 97       |
| 9) Fluorene                 | 15.56 | 166  | 217841   | 11.175 | ng/ul# | 91       |
| 12) Phenanthrene            | 17.29 | 178  | 1099094  | 46.338 | ng/ul# | 87       |
| 13) Anthracene              | 17.38 | 178  | 113431   | 4.846  | ng/ul# | 91       |
| 15) Fluoranthene            | 19.32 | 202  | 624463   | 22.772 | ng/ul  | 83       |
| 17) Pyrene                  | 19.68 | 202  | 462466   | 17.622 | ng/ul# | 80       |
| 18) Benzo(a)anthracene      | 21.42 | 228  | 148154   | 6.105  | ng/ul# | 88       |
| 19) Chrysene                | 21.48 | 228  | 233040   | 9.290  | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 23.19 | 252  | 251527m  | 9.744  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.24 | 252  | 84076m   | 3.039  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.86 | 252  | 66942    | 2.594  | ng/ul# | 83       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.69 | 276  | 78764    | 2.950  | ng/ul# | 75       |
| 25) Dibenzo(a,h)anthracene  | 26.68 | 278  | 22488    | 1.000  | ng/ul  | 96       |
| 26) Benzo(g,h,i)perylene    | 27.53 | 276  | 68111    | 3.177  | ng/ul  | 96       |

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

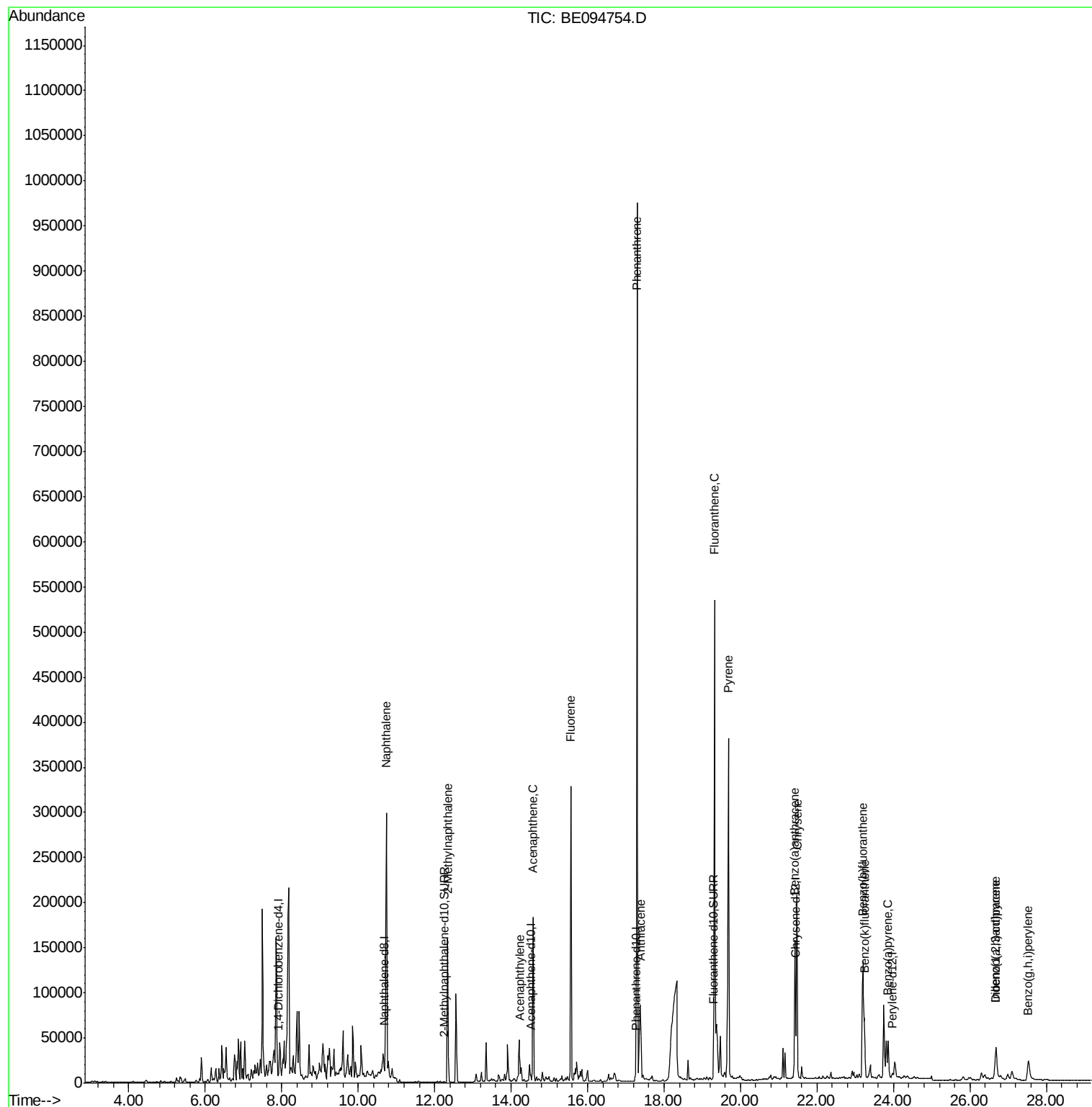
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE110617\  
Data File : BE094754.D  
Acq On : 6 Nov 2017 15:43  
Operator : SJ/JU  
Sample : I6150-05 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

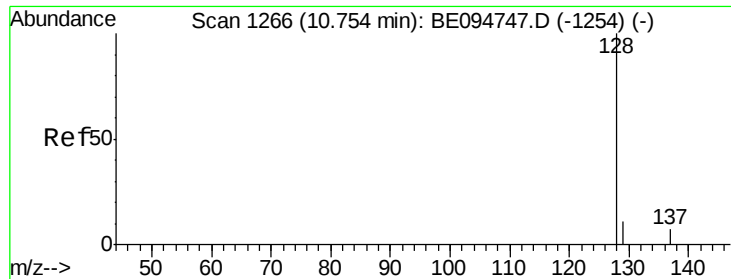
Instrument :  
BNA\_E  
ClientSampleId :  
B-3(1-2)-102517

Quant Time: Nov 07 11:29:04 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE102517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 07 01:37:48 2017  
Response via : Initial Calibration

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#3

Naphthalene

Concen: 24.669 ng/ul

RT: 10.74 min Scan# 1263

Delta R.T. -0.02 min

Lab File: BE094754.D

Acq: 6 Nov 2017 15:43

Instrument :

BNA\_E

ClientSampleId :

B-3(1-2)-102517

Tgt Ion:128 Resp: 479086

Ion Ratio Lower Upper

128 100

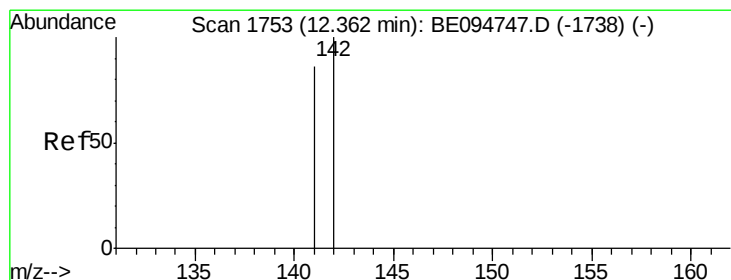
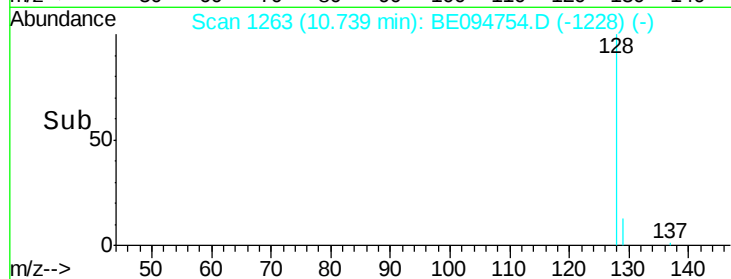
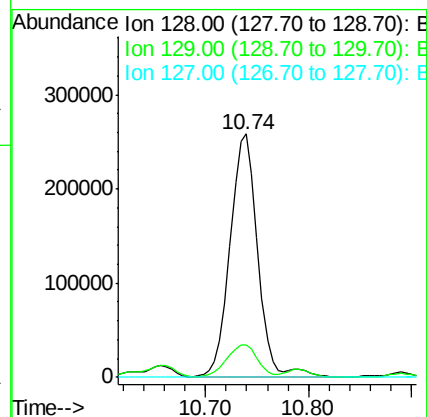
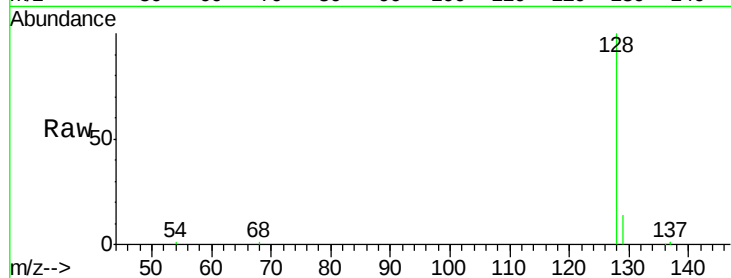
129 13.6 11.3 16.9

127 0.0 4.0 6.0#

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#5

2-Methylnaphthalene

Concen: 10.217 ng/ul

RT: 12.34 min Scan# 1747

Delta R.T. -0.03 min

Lab File: BE094754.D

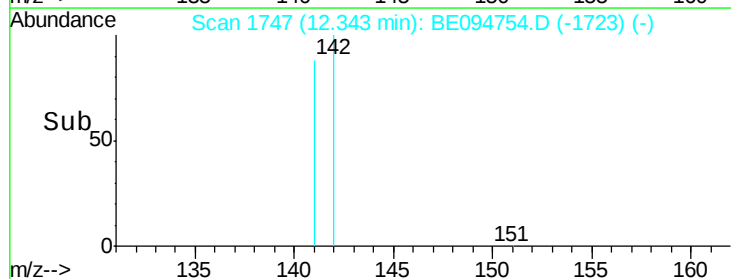
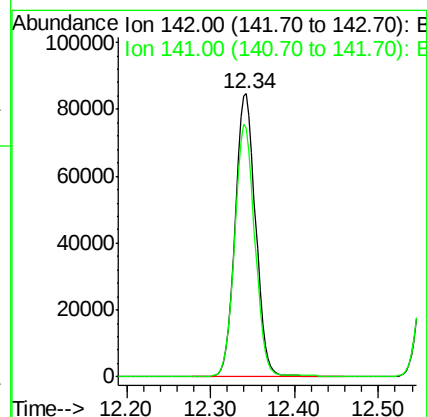
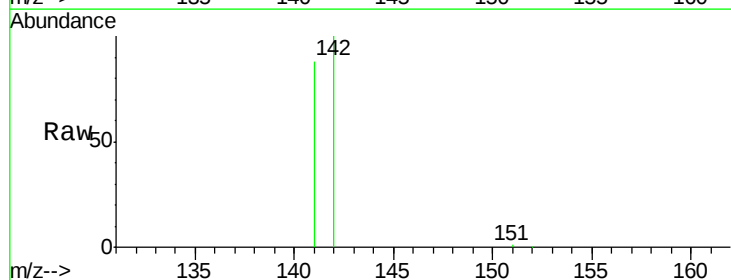
Acq: 6 Nov 2017 15:43

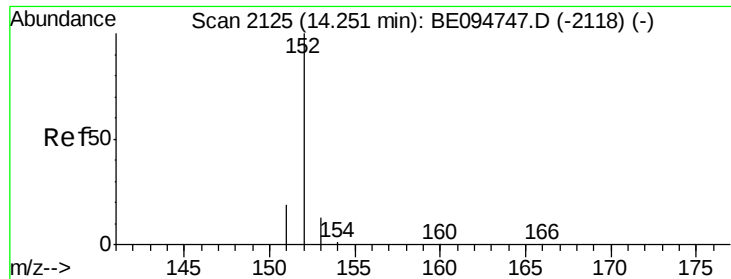
Tgt Ion:142 Resp: 138820

Ion Ratio Lower Upper

142 100

141 88.7 72.6 108.8





#7

Acenaphthylene

Concen: 0.674 ng/ul

RT: 14.24 min Scan# 2123

Delta R.T. -0.02 min

Lab File: BE094754.D

Acq: 6 Nov 2017 15:43

Instrument :

BNA\_E

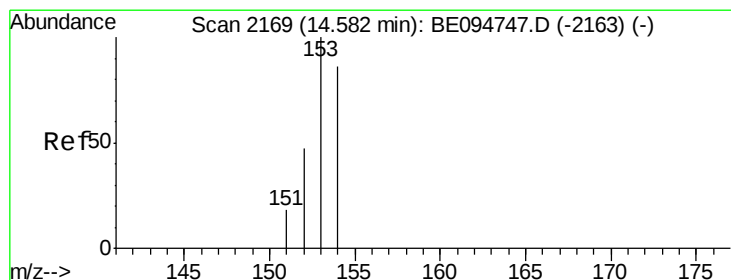
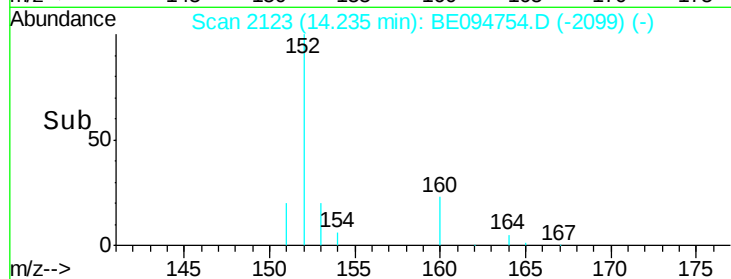
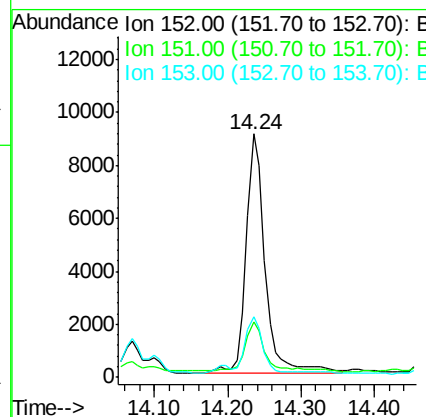
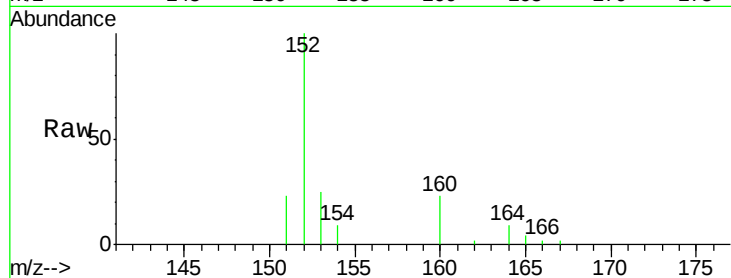
ClientSampleId :

B-3(1-2)-102517

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 22.8  | 17.1  | 25.7  |
| 153     | 25.1  | 12.8  | 19.2# |

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#8

Acenaphthene

Concen: 6.211 ng/ul

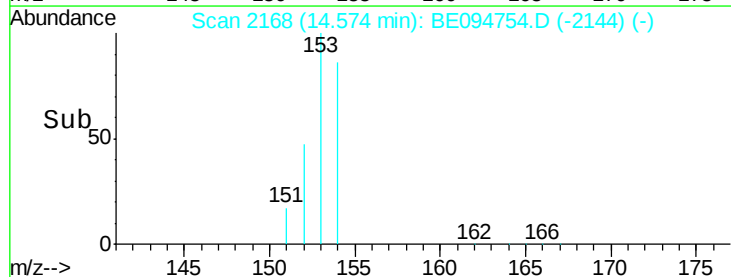
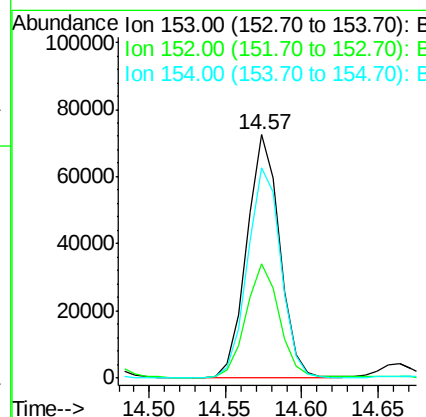
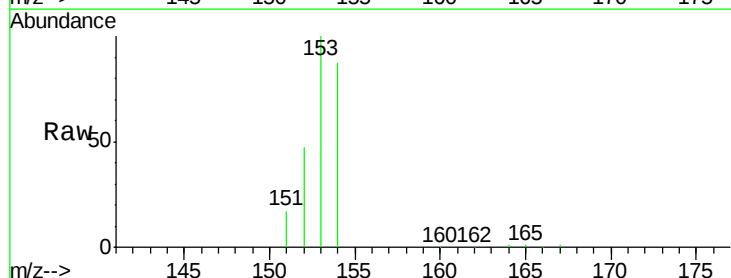
RT: 14.57 min Scan# 2168

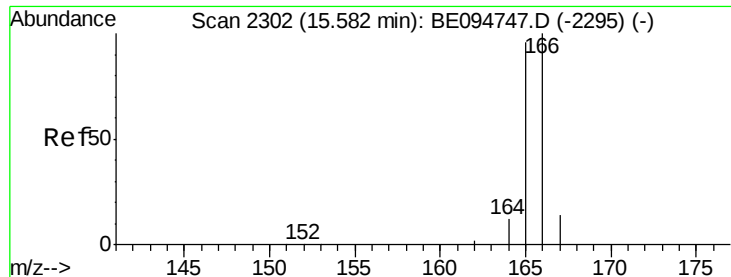
Delta R.T. -0.02 min

Lab File: BE094754.D

Acq: 6 Nov 2017 15:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 47.1  | 36.0  | 54.0  |
| 154     | 86.6  | 72.0  | 108.0 |





#9

Fluorene

Concen: 11.175 ng/ul

RT: 15.56 min Scan# 2299

Delta R.T. -0.02 min

Lab File: BE094754.D

Acq: 6 Nov 2017 15:43

Instrument :

BNA\_E

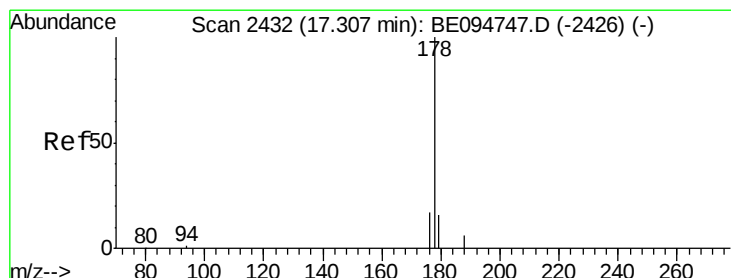
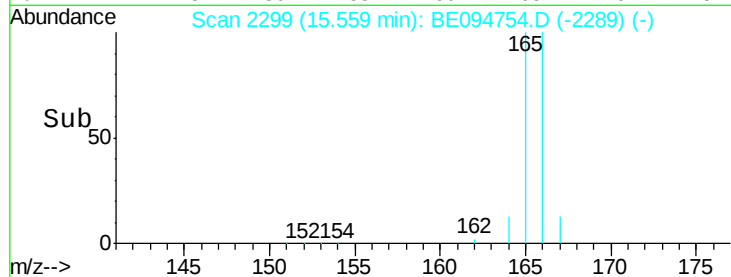
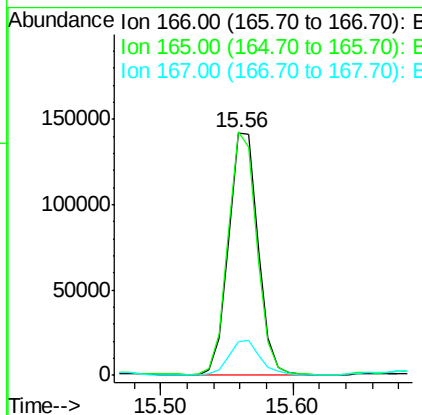
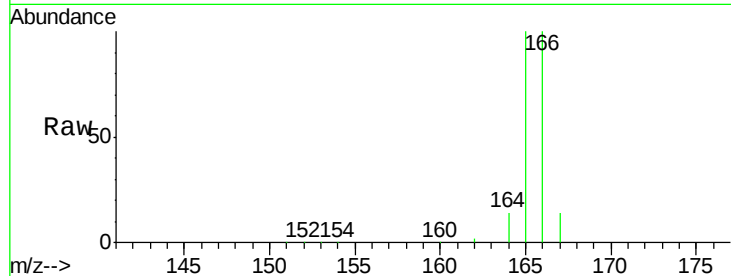
ClientSampleId :

B-3(1-2)-102517

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 166   | Resp: | 217841 |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 165       | 100.3 | 73.4  | 110.2  |
| 167       | 13.8  | 14.6  | 22.0#  |

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#12

Phenanthrene

Concen: 46.338 ng/ul

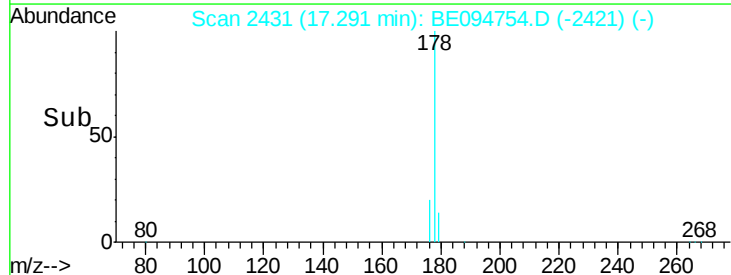
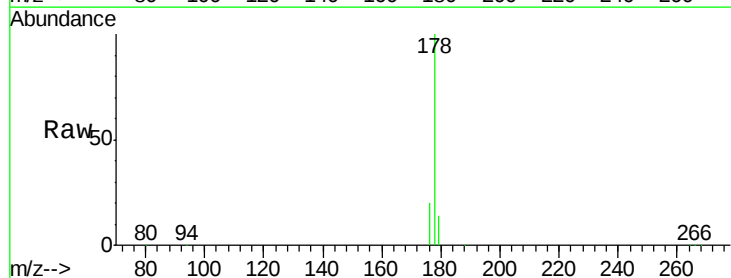
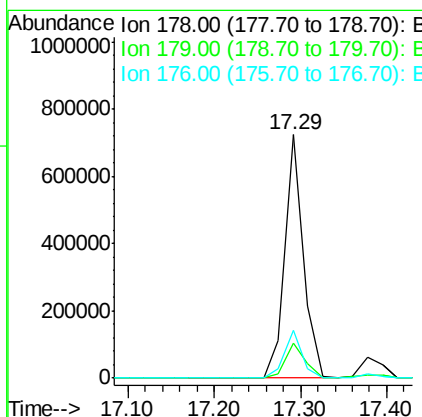
RT: 17.29 min Scan# 2431

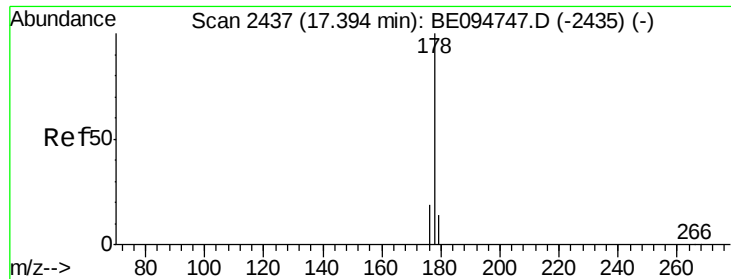
Delta R.T. -0.02 min

Lab File: BE094754.D

Acq: 6 Nov 2017 15:43

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 178   | Resp: | 1099094 |
| Ion Ratio | Lower | Upper |         |
| 178       | 100   |       |         |
| 179       | 14.5  | 18.4  | 27.6#   |
| 176       | 19.9  | 13.6  | 20.4    |





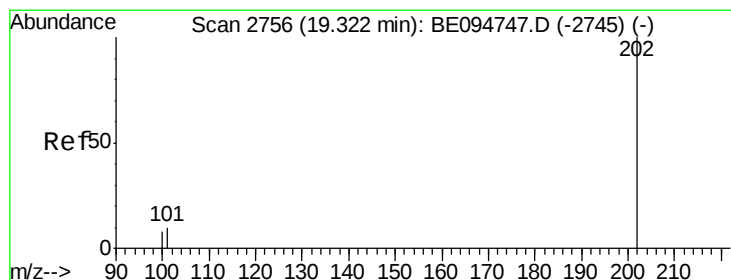
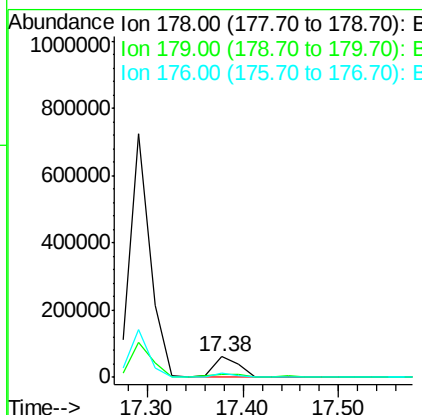
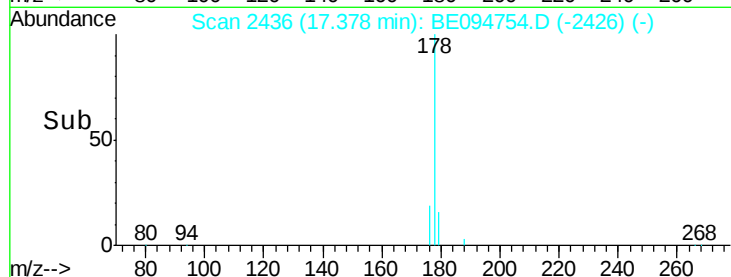
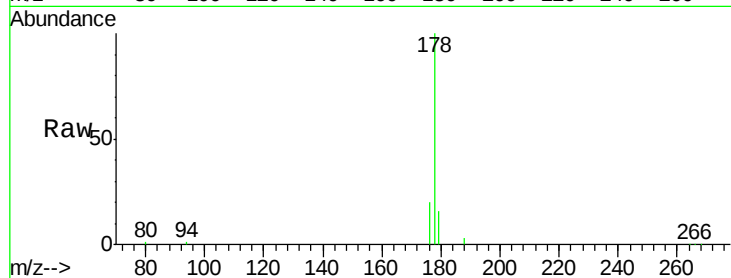
#13  
 Anthracene  
 Concen: 4.846 ng/ul  
 RT: 17.38 min Scan# 2436  
 Delta R.T. -0.02 min  
 Lab File: BE094754.D  
 Acq: 6 Nov 2017 15:43

Instrument :  
 BNA\_E  
 ClientSampleId :  
 B-3(1-2)-102517

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.9  | 18.1  | 27.1# |
| 176     | 19.9  | 14.7  | 22.1  |

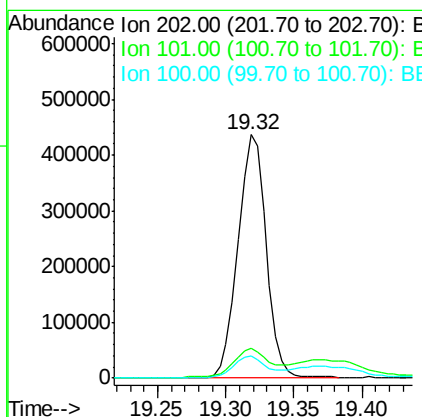
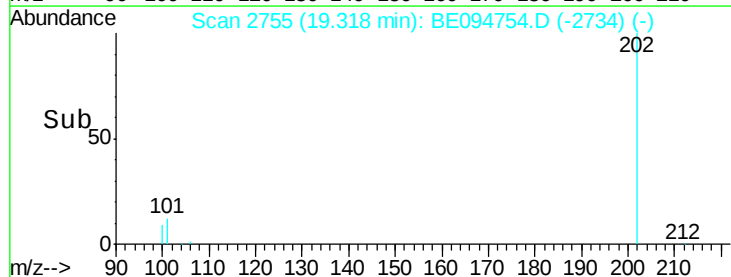
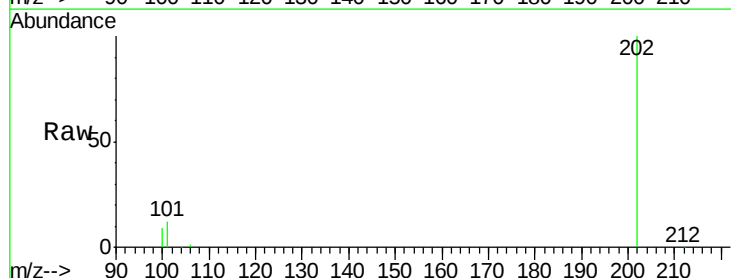
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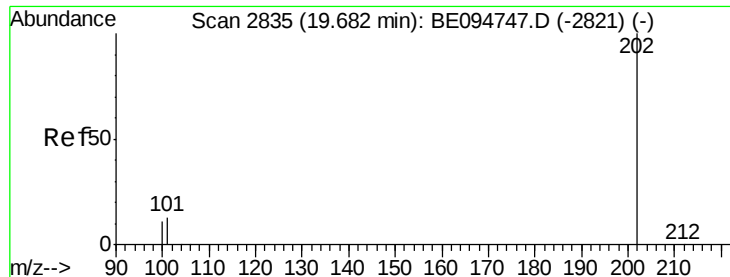
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#15  
 Fluoranthene  
 Concen: 22.772 ng/ul  
 RT: 19.32 min Scan# 2755  
 Delta R.T. -0.00 min  
 Lab File: BE094754.D  
 Acq: 6 Nov 2017 15:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.4  | 0.0   | 30.3  |
| 100     | 9.1   | 0.0   | 39.5  |





#17

Pyrene

Concen: 17.622 ng/ul

RT: 19.68 min Scan# 2835

Delta R.T. 0.00 min

Lab File: BE094754.D

Acq: 6 Nov 2017 15:43

Instrument :

BNA\_E

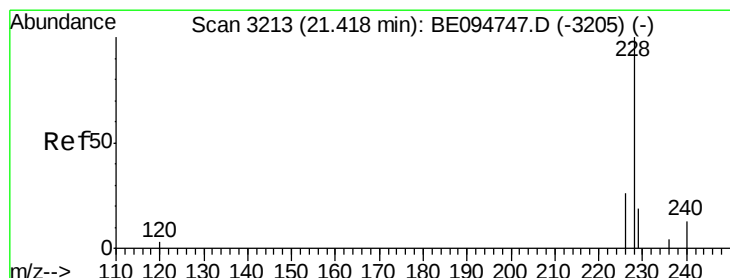
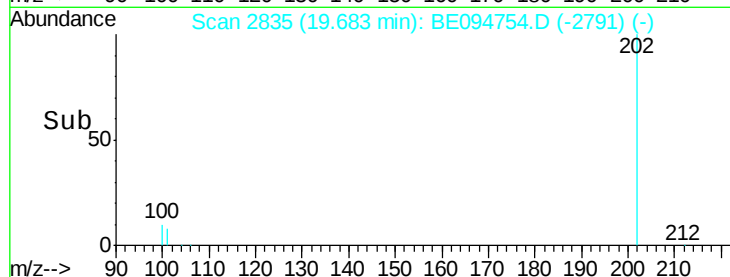
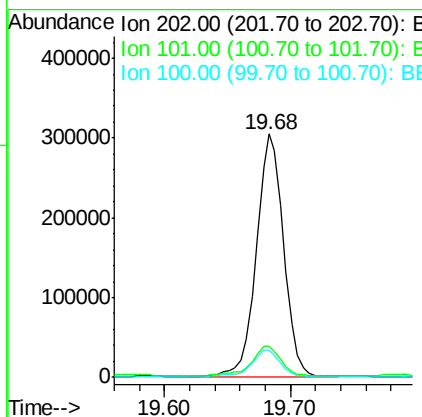
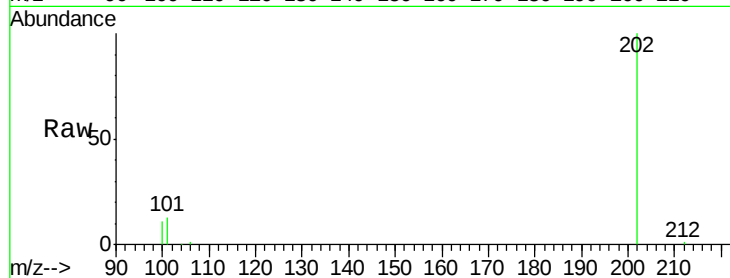
ClientSampleId :

B-3(1-2)-102517

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 462466 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 12.9  | 18.2  | 27.4#  |
| 100       | 11.0  | 15.6  | 23.4#  |

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#18

Benzo(a)anthracene

Concen: 6.105 ng/ul

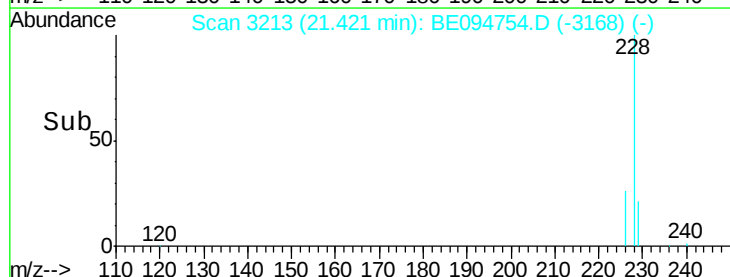
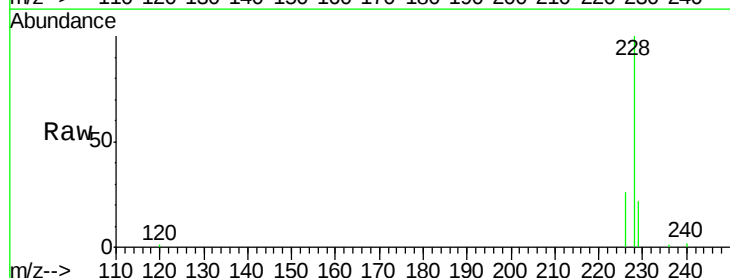
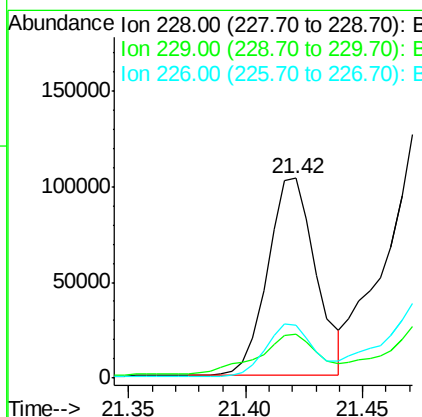
RT: 21.42 min Scan# 3213

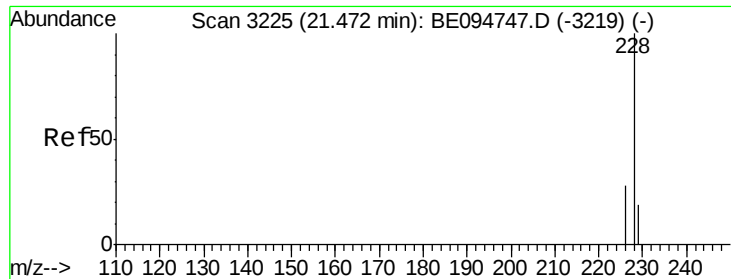
Delta R.T. 0.00 min

Lab File: BE094754.D

Acq: 6 Nov 2017 15:43

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 148154 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 22.1  | 22.8  | 34.2#  |
| 226       | 26.5  | 17.0  | 25.6#  |





#19

Chrysene

Concen: 9.290 ng/ul

RT: 21.48 min Scan# 3225

Delta R.T. 0.00 min

Lab File: BE094754.D

Acq: 6 Nov 2017 15:43

Instrument :

BNA\_E

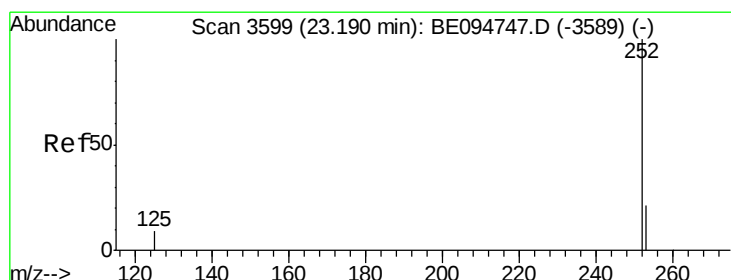
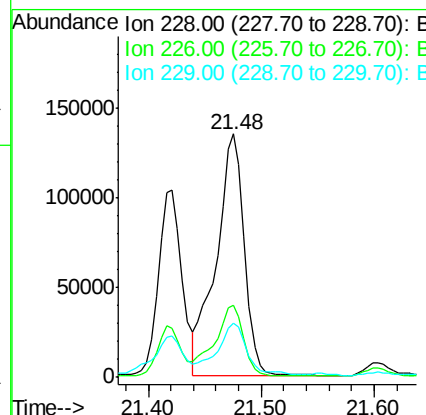
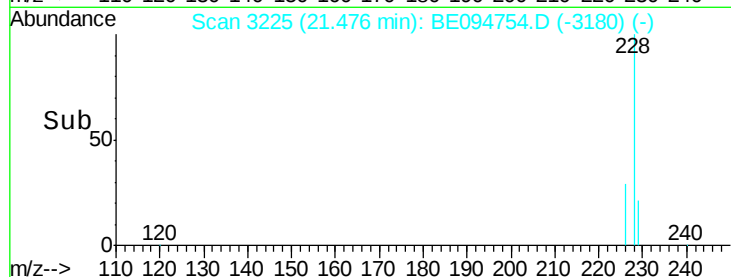
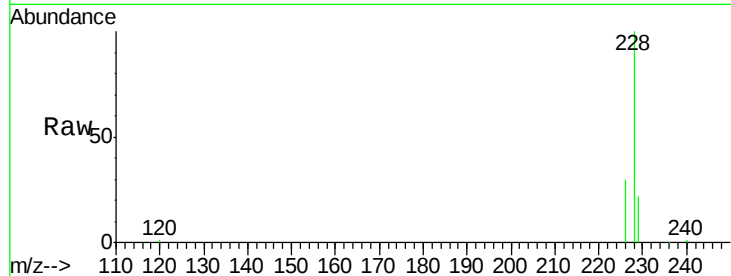
ClientSampleId :

B-3(1-2)-102517

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 233040 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.9  | 23.4  | 35.0   |
| 229       | 22.3  | 17.7  | 26.5   |

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#21

Benzo(b)fluoranthene

Concen: 9.744 ng/ul m

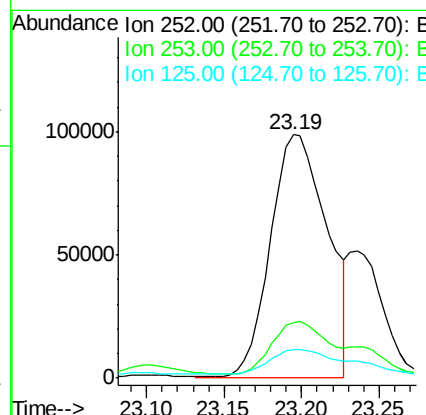
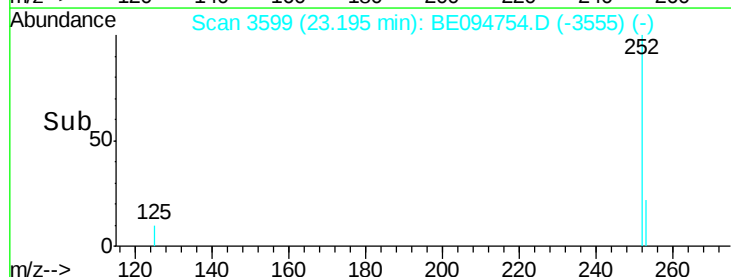
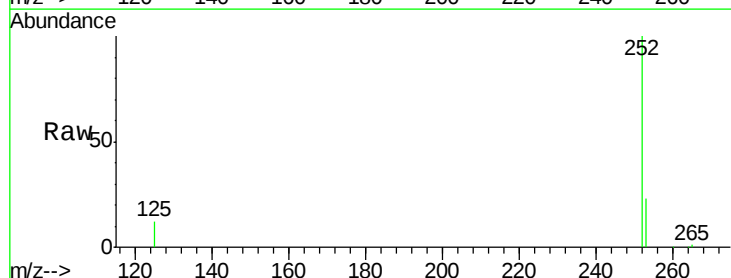
RT: 23.19 min Scan# 3599

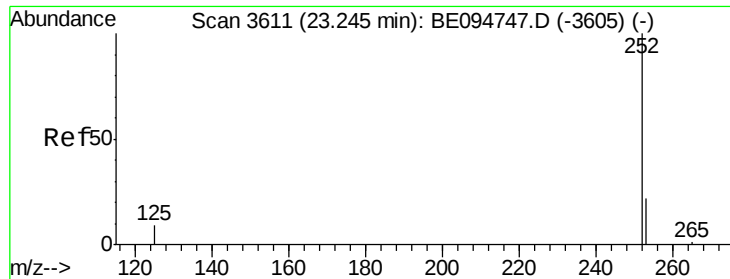
Delta R.T. 0.00 min

Lab File: BE094754.D

Acq: 6 Nov 2017 15:43

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 251527 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.0  | 0.0   | 64.2   |
| 125       | 11.9  | 0.0   | 35.0   |





#22

Benzo(k)fluoranthene

Concen: 3.039 ng/ul

RT: 23.24 min Scan# 3608

Delta R.T. -0.00 min

Lab File: BE094754.D

Acq: 6 Nov 2017 15:43

Instrument :

BNA\_E

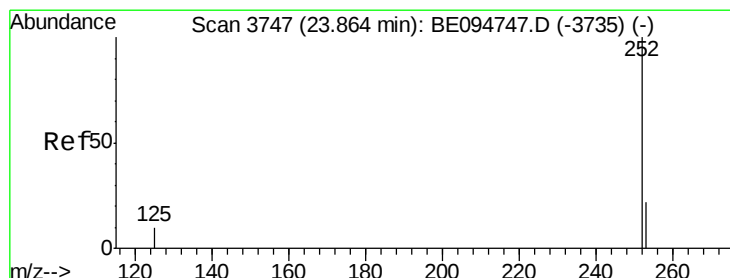
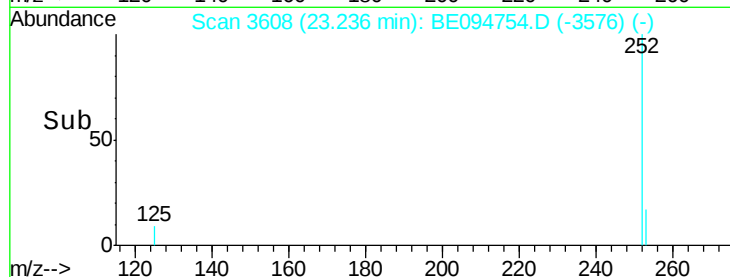
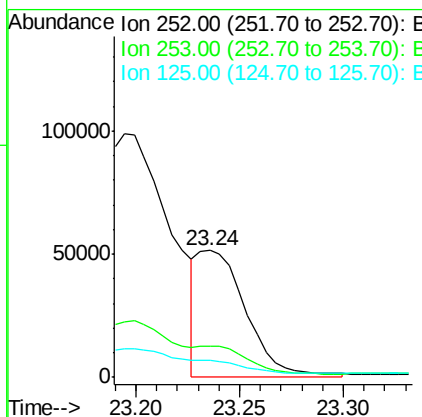
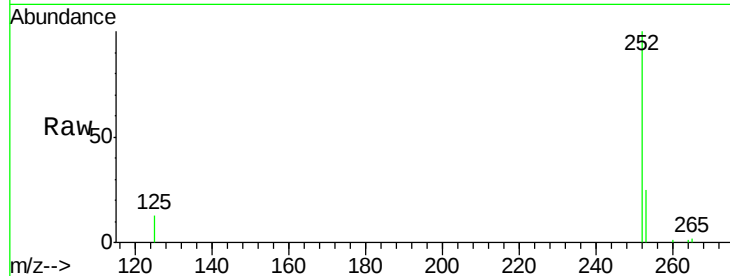
ClientSampled :

B-3(1-2)-102517

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.7  | 24.5  | 36.7  |
| 125     | 13.0  | 13.7  | 20.5# |

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#23

Benzo(a)pyrene

Concen: 2.594 ng/ul

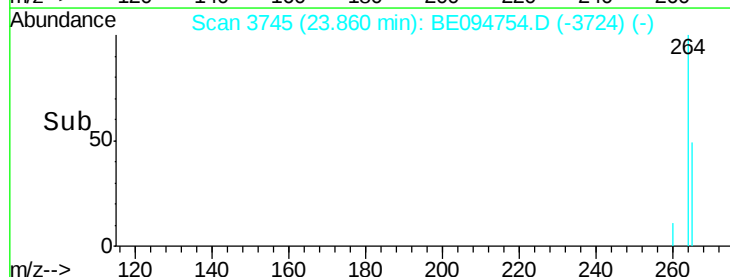
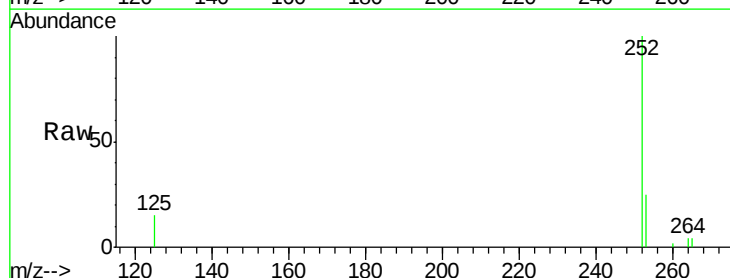
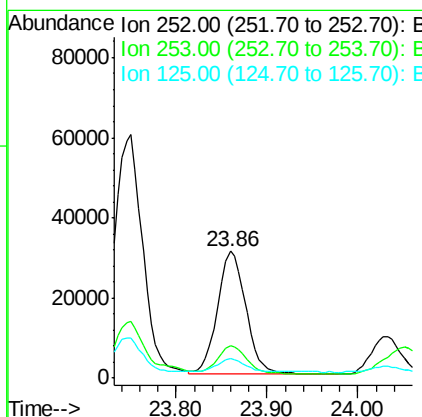
RT: 23.86 min Scan# 3745

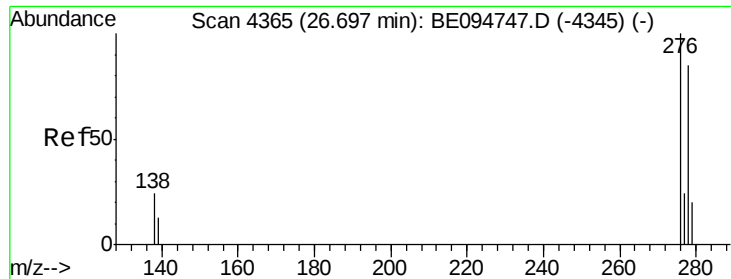
Delta R.T. -0.00 min

Lab File: BE094754.D

Acq: 6 Nov 2017 15:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.3  | 28.5  | 42.7# |
| 125     | 15.0  | 18.1  | 27.1# |





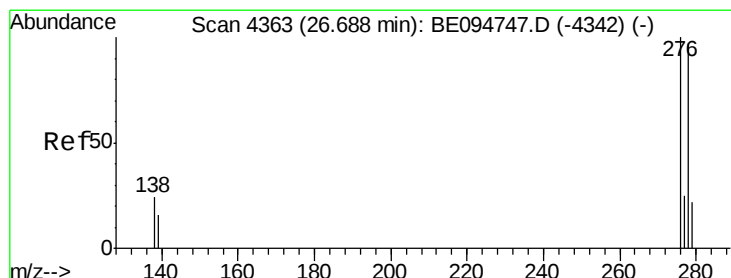
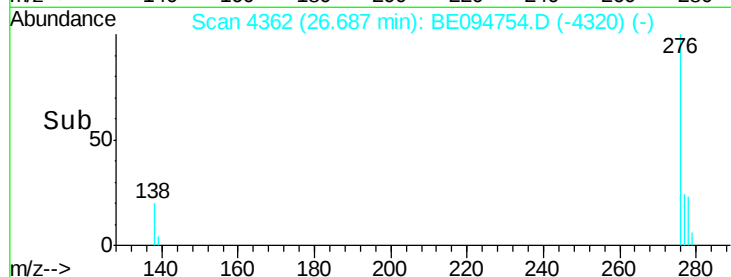
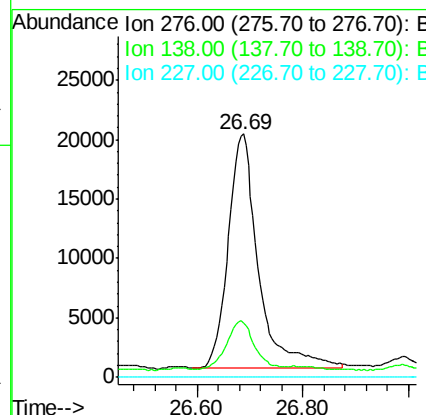
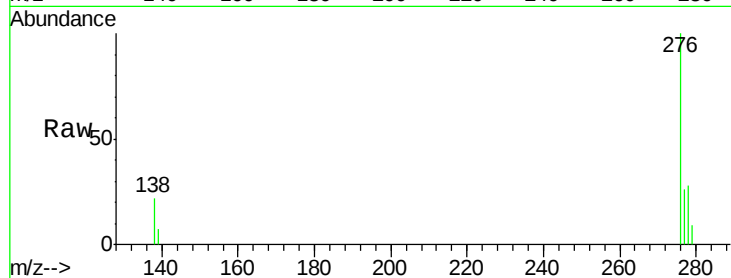
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.950 ng/ul  
 RT: 26.69 min Scan# 4362  
 Delta R.T. -0.01 min  
 Lab File: BE094754.D  
 Acq: 6 Nov 2017 15:43

Instrument :  
 BNA\_E  
 ClientSampleId :  
 B-3(1-2)-102517

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.8  | 28.0  | 42.0# |
| 227     | 0.0   | 8.0   | 12.0# |

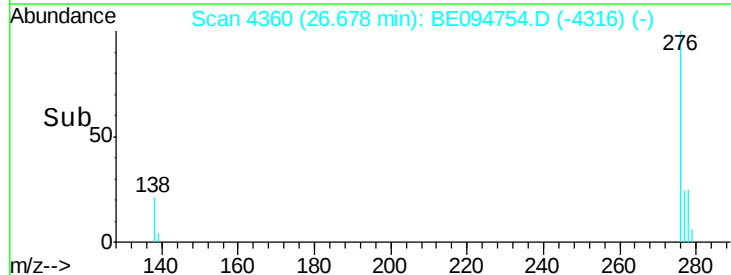
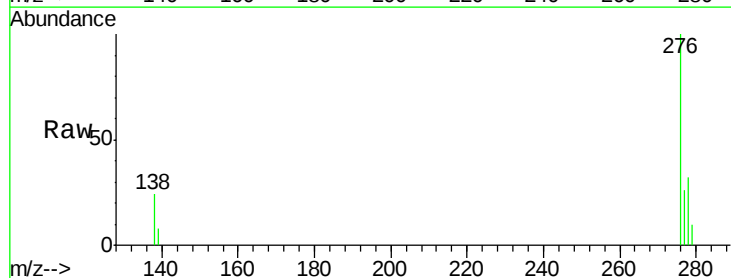
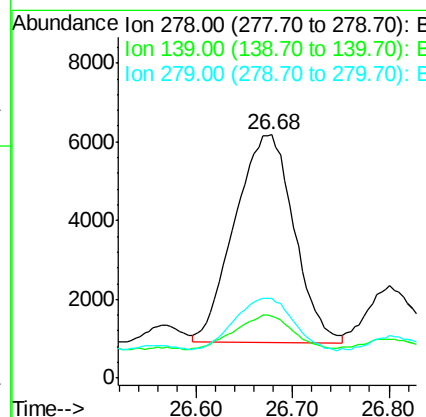
Manual Integrations  
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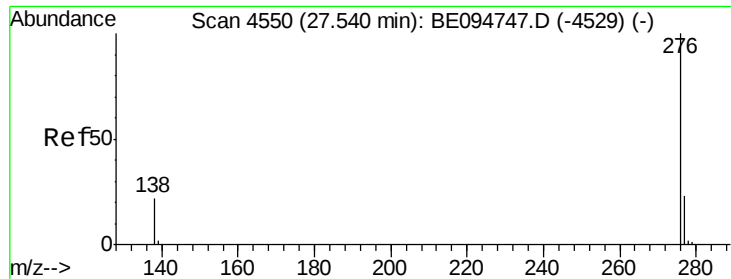
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#25  
 Dibenzo(a,h)anthracene  
 Concen: 1.000 ng/ul  
 RT: 26.68 min Scan# 4360  
 Delta R.T. -0.00 min  
 Lab File: BE094754.D  
 Acq: 6 Nov 2017 15:43

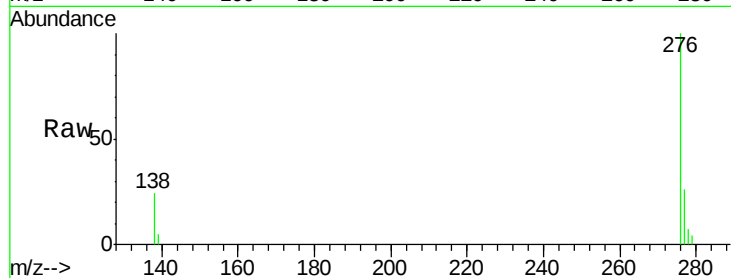
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 25.4  | 17.4  | 26.0  |
| 279     | 33.0  | 25.9  | 38.9  |





#26  
 Benzo(g,h,i)perylene  
 Concen: 3.177 ng/ul  
 RT: 27.53 min Scan# 4546  
 Delta R.T. -0.01 min  
 Lab File: BE094754.D  
 Acq: 6 Nov 2017 15:43

Instrument :  
 BNA\_E  
 ClientSampleId :  
 B-3(1-2)-102517



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 24.0  | 21.8  | 32.8  |
| 277     | 26.0  | 20.5  | 30.7  |

Manual Integrations  
 APPROVED

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