

Data Path : Z:\HPCHEM1\BNA E\DATA\BE112217\  
 Data File : BE094843.D  
 Acq On : 22 Nov 2017 21:53  
 Operator : SJ/JU  
 Sample : I6496-03  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AA2

Manual Integrations  
 APPROVED

Sohil  
 11/27/2017 3:25:43 PM

Quant Time: Nov 23 03:07:30 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE111417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Nov 23 02:50:08 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.89  | 152  | 633      | 0.40  | ng/ul  | -0.04    |
| 2) Naphthalene-d8           | 10.68 | 136  | 4285     | 0.40  | ng/ul  | -0.03    |
| 6) Acenaphthene-d10         | 14.50 | 164  | 3086     | 0.40  | ng/ul  | -0.02    |
| 10) Phenanthrene-d10        | 17.24 | 188  | 7200     | 0.40  | ng/ul  | -0.02    |
| 16) Chrysene-d12            | 21.42 | 240  | 7706     | 0.40  | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.95 | 264  | 8583     | 0.40  | ng/ul  | -0.02    |
| System Monitoring Compounds |       |      |          |       |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.30 | 152  | 1775     | 0.26  | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.27 | 212  | 6225     | 0.25  | ng/ul  | -0.02    |
| Target Compounds            |       |      |          |       | Ovalue |          |
| 3) Naphthalene              | 10.72 | 128  | 2223     | 0.218 | ng/ul# | 95       |
| 5) 2-Methylnaphthalene      | 12.37 | 142  | 274      | 0.039 | ng/ul  | 98       |
| 7) Acenaphthylene           | 14.23 | 152  | 1396     | 0.099 | ng/ul# | 89       |
| 8) Acenaphthene             | 14.56 | 153  | 376      | 0.038 | ng/ul# | 88       |
| 9) Fluorene                 | 15.55 | 166  | 682      | 0.057 | ng/ul# | 84       |
| 12) Phenanthrene            | 17.27 | 178  | 12422m   | 0.642 | ng/ul  |          |
| 13) Anthracene              | 17.38 | 178  | 3461     | 0.176 | ng/ul  | 95       |
| 15) Fluoranthene            | 19.30 | 202  | 48359    | 1.906 | ng/ul  | 84       |
| 17) Pyrene                  | 19.66 | 202  | 45963    | 1.906 | ng/ul# | 79       |
| 18) Benzo(a)anthracene      | 21.40 | 228  | 28211    | 1.204 | ng/ul# | 89       |
| 19) Chrysene                | 21.45 | 228  | 25039    | 1.071 | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 23.17 | 252  | 36692m   | 1.435 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.21 | 252  | 11446m   | 0.421 | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.83 | 252  | 26548    | 1.044 | ng/ul# | 79       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.65 | 276  | 17408    | 0.628 | ng/ul# | 72       |
| 25) Dibenzo(a,h)anthracene  | 26.64 | 278  | 4290     | 0.184 | ng/ul  | 96       |
| 26) Benzo(a,h,i)perylene    | 27.49 | 276  | 14462    | 0.623 | ng/ul  | 95       |

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

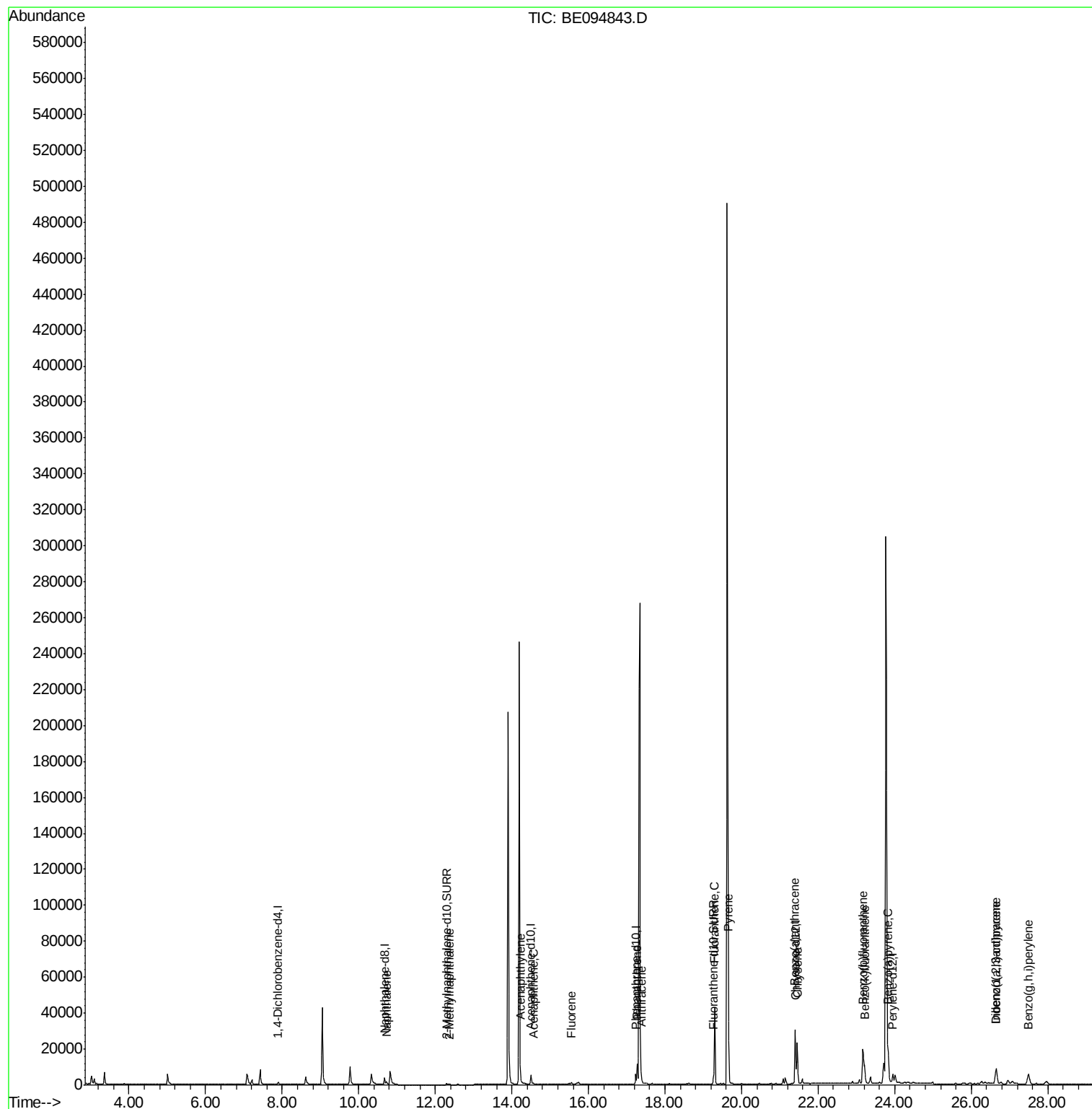
Data Path : Z:\HPCHEM1\BNA E\DATA\BE112217\  
Data File : BE094843.D  
Acq On : 22 Nov 2017 21:53  
Operator : SJ/JU  
Sample : I6496-03  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

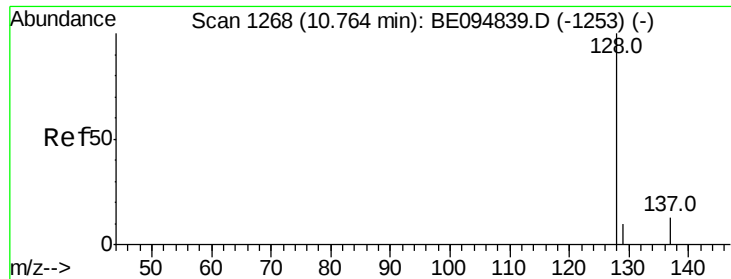
Instrument :  
BNA\_E  
ClientSampleId :  
C0AA2

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Quant Time: Nov 23 03:07:30 2017  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE111417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Nov 23 02:50:08 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.218 ng/ul

RT: 10.72 min Scan# 1260

Delta R.T. -0.04 min

Lab File: BE094843.D

Acq: 22 Nov 2017 21:53

Instrument :

BNA\_E

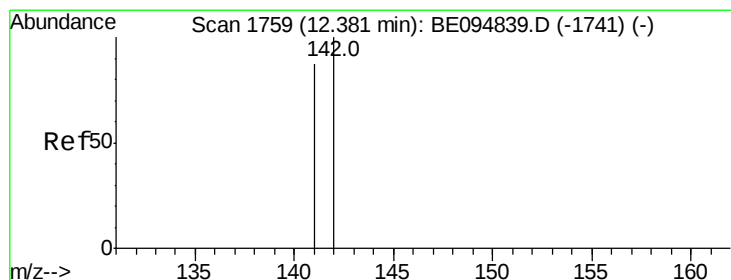
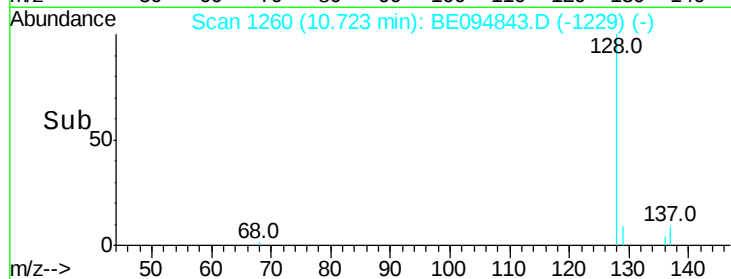
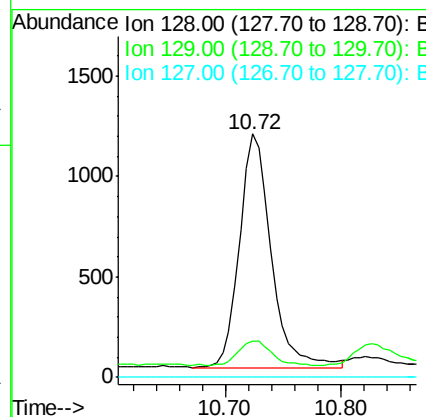
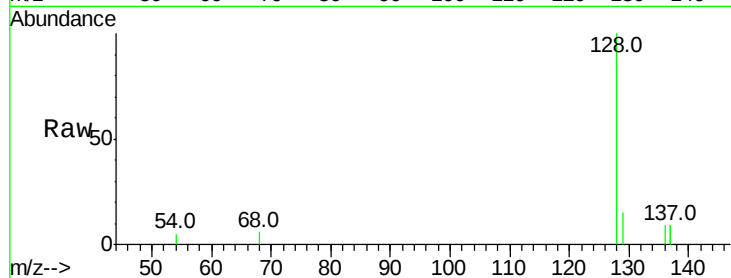
ClientSampleId :

C0AA2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 14.9  | 11.3  | 16.9  |
| 127     | 0.0   | 4.0   | 6.0   |

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#5

2-Methylnaphthalene

Concen: 0.039 ng/ul

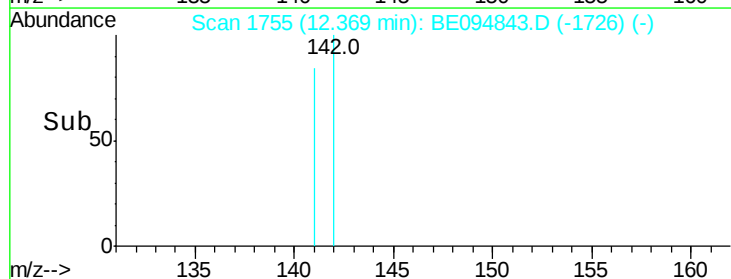
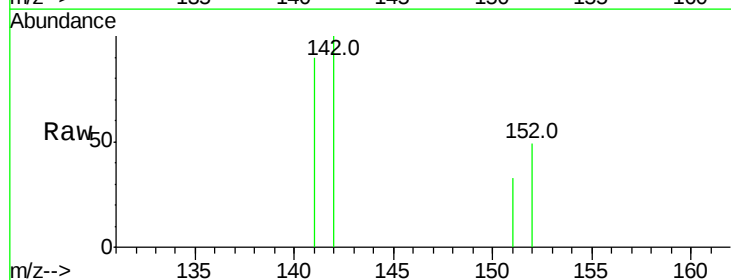
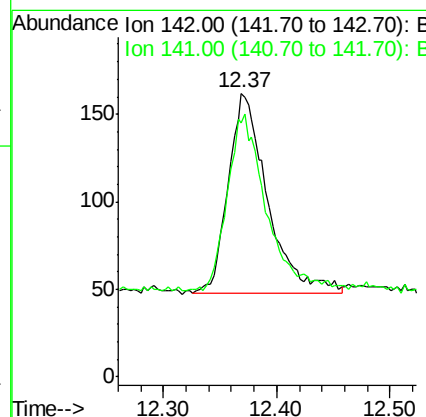
RT: 12.37 min Scan# 1755

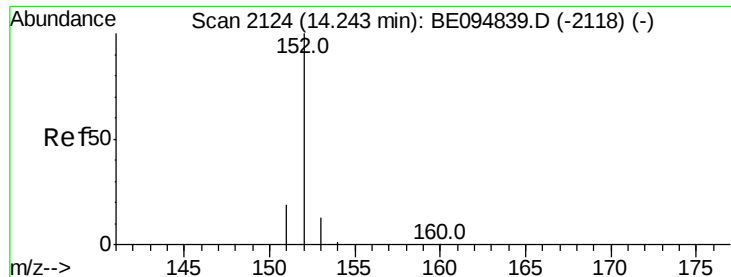
Delta R.T. -0.01 min

Lab File: BE094843.D

Acq: 22 Nov 2017 21:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.7  | 72.6  | 108.8 |





#7

Acenaphthylene

Concen: 0.099 ng/ul

RT: 14.23 min Scan# 2122

Delta R.T. -0.02 min

Lab File: BE094843.D

Acq: 22 Nov 2017 21:53

Instrument :

BNA\_E

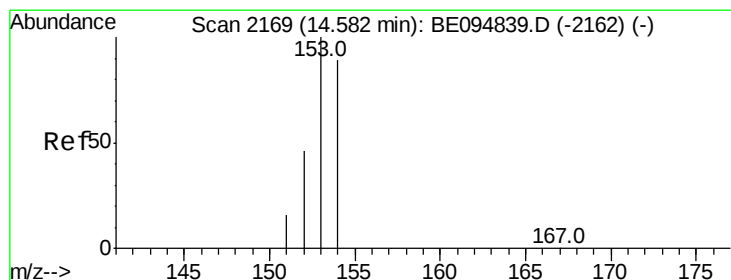
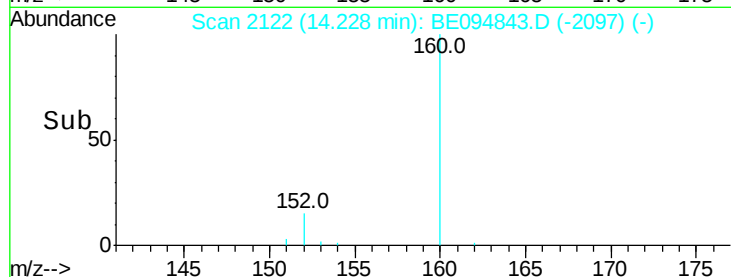
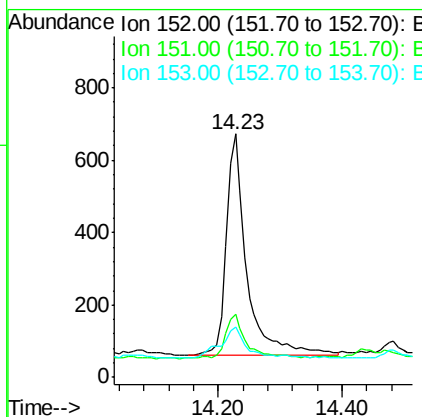
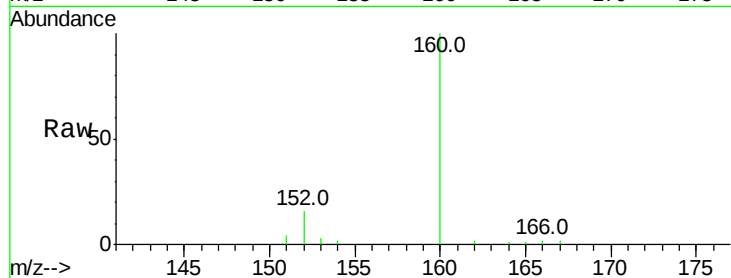
ClientSampleId :

C0AA2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 1396  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 26.0  | 17.1  | 25.7# |
| 153       | 21.0  | 12.8  | 19.2# |

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#8

Acenaphthene

Concen: 0.038 ng/ul

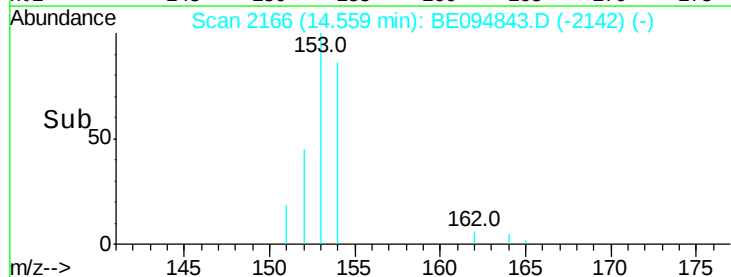
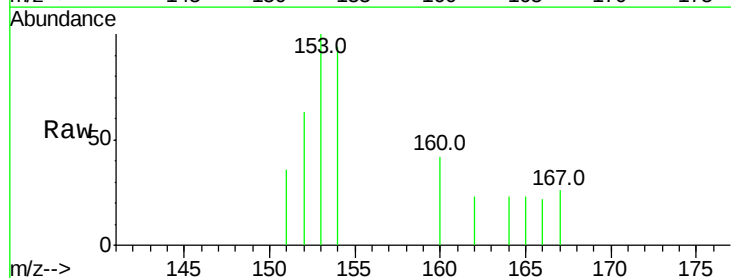
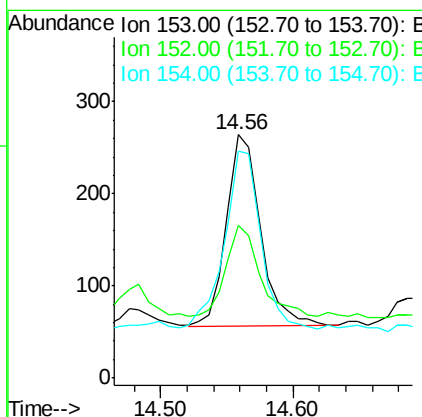
RT: 14.56 min Scan# 2166

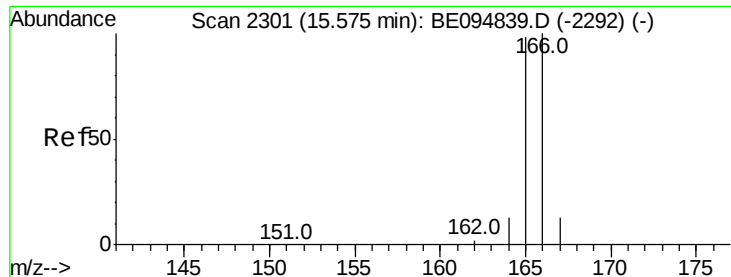
Delta R.T. -0.02 min

Lab File: BE094843.D

Acq: 22 Nov 2017 21:53

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 376   |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 62.9  | 36.0  | 54.0# |
| 154       | 93.6  | 72.0  | 108.0 |





#9

Fluorene

Concen: 0.057 ng/ul

RT: 15.55 min Scan# 2298

Delta R.T. -0.02 min

Lab File: BE094843.D

Acq: 22 Nov 2017 21:53

Instrument :

BNA\_E

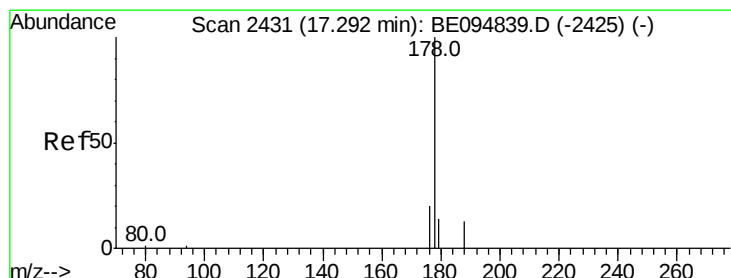
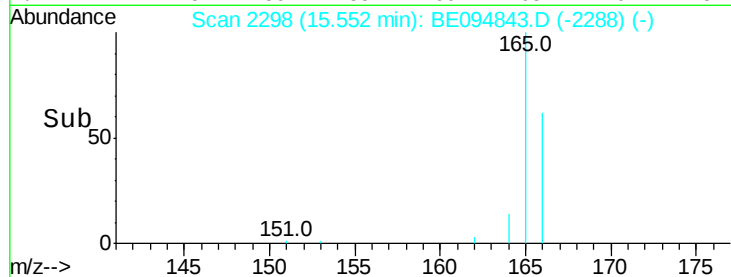
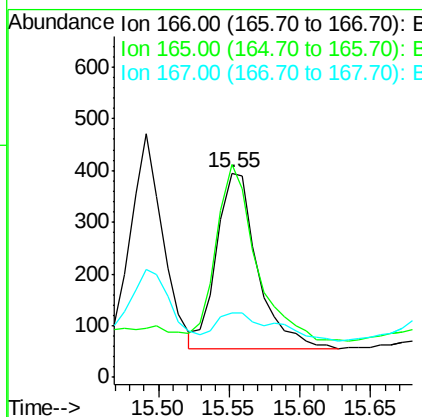
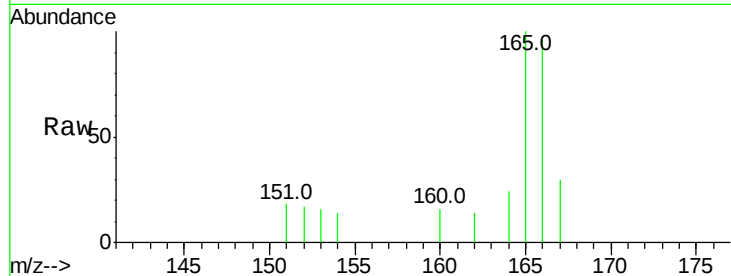
ClientSampleId :

C0AA2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 166   | Resp: | 682   |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 104.1 | 73.4  | 110.2 |
| 167       | 31.4  | 14.6  | 22.0# |

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#12

Phenanthrene

Concen: 0.642 ng/ul m

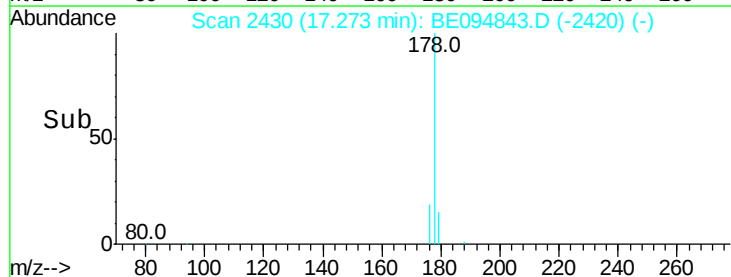
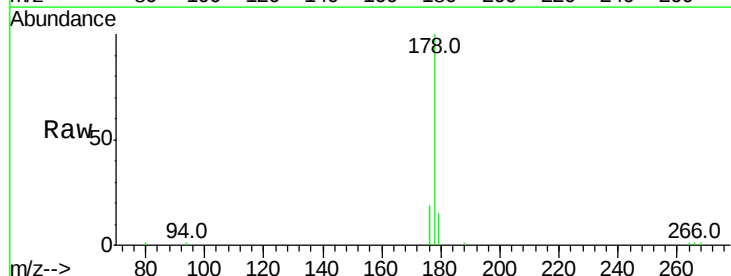
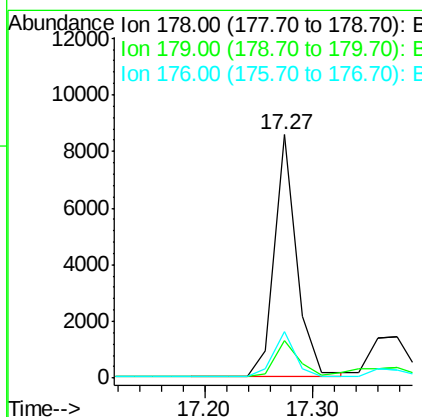
RT: 17.27 min Scan# 2430

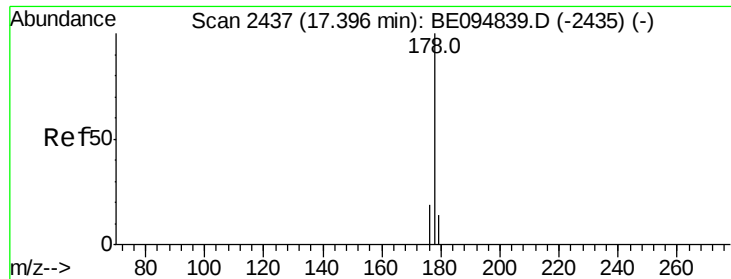
Delta R.T. -0.02 min

Lab File: BE094843.D

Acq: 22 Nov 2017 21:53

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 12422 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 15.2  | 18.4  | 27.6# |
| 176       | 19.0  | 13.6  | 20.4  |





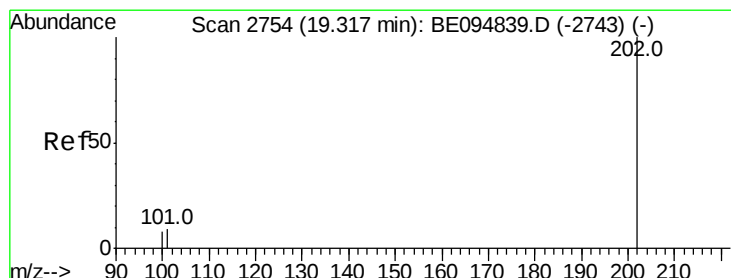
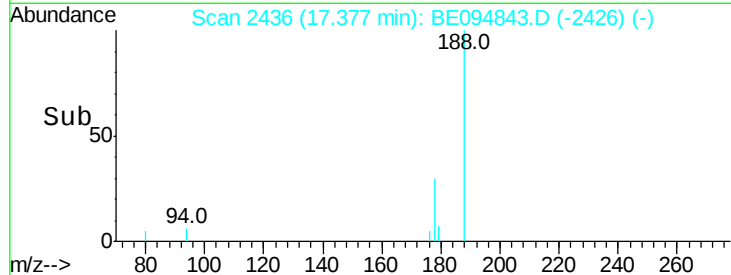
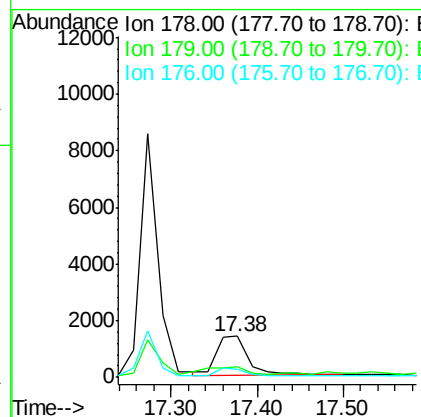
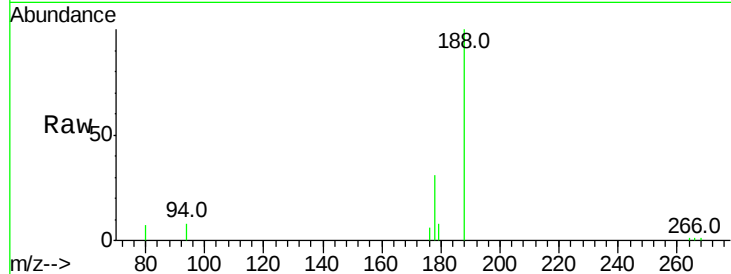
#13  
 Anthracene  
 Concen: 0.176 ng/ul  
 RT: 17.38 min Scan# 2436  
 Delta R.T. -0.02 min  
 Lab File: BE094843.D  
 Acq: 22 Nov 2017 21:53

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AA2

Tot Ion:178 Resp: 3461  
 Ion Ratio Lower Upper  
 178 100  
 179 27.1 18.1 27.1  
 176 18.4 14.7 22.1

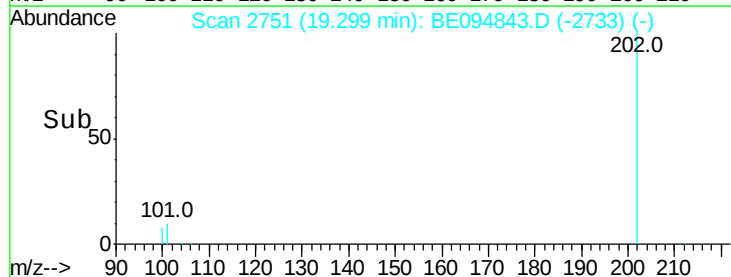
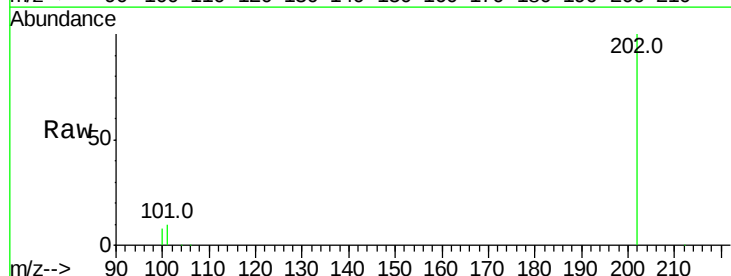
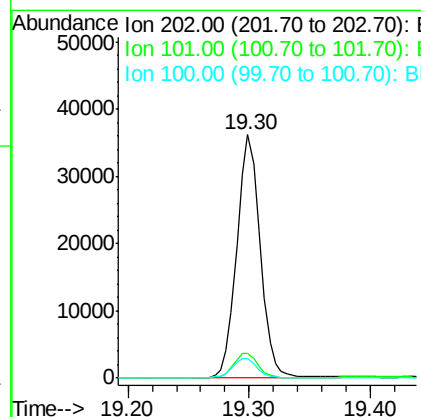
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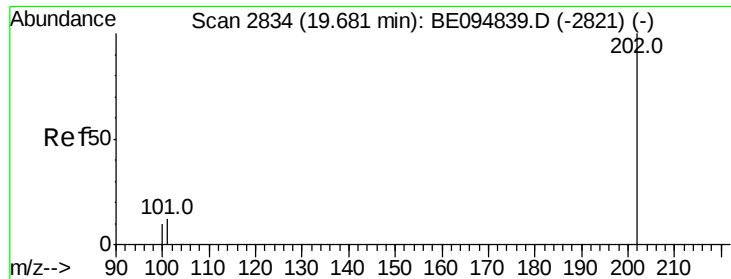
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 11/27/2017 3:25:43 PM



#15  
 Fluoranthene  
 Concen: 1.906 ng/ul  
 RT: 19.30 min Scan# 2751  
 Delta R.T. -0.02 min  
 Lab File: BE094843.D  
 Acq: 22 Nov 2017 21:53

Tgt Ion:202 Resp: 48359  
 Ion Ratio Lower Upper  
 202 100  
 101 10.4 0.0 30.3  
 100 8.1 0.0 39.5





#17

Pvrene

Concen: 1.906 ng/ul

RT: 19.66 min Scan# 2830

Delta R.T. -0.02 min

Lab File: BE094843.D

Acq: 22 Nov 2017 21:53

Instrument :

BNA\_E

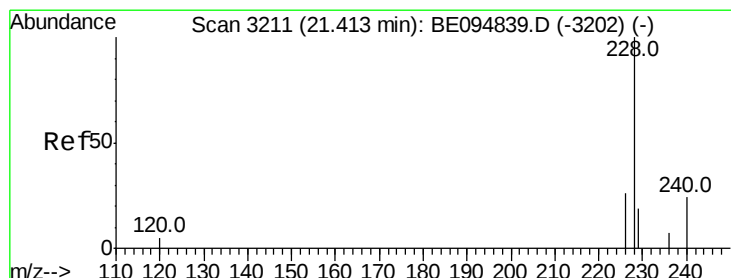
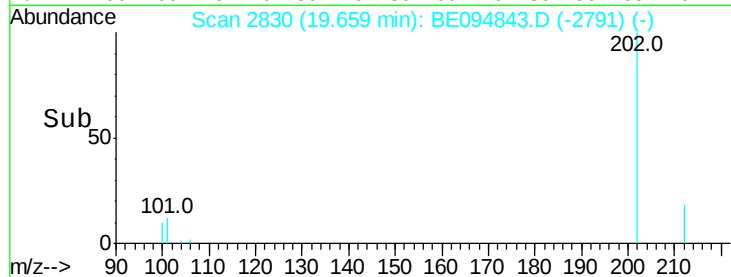
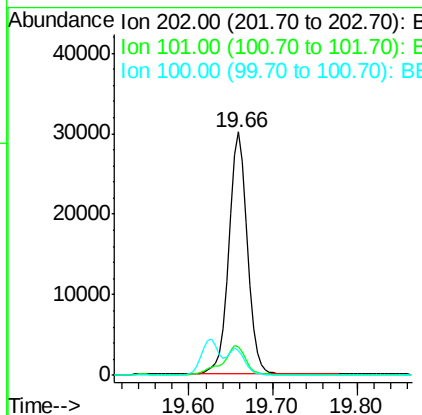
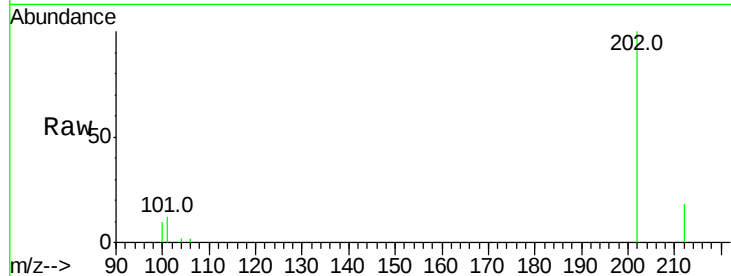
ClientSampleId :

C0AA2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 45963 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 12.0  | 18.2  | 27.4# |
| 100       | 10.3  | 15.6  | 23.4# |

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#18

Benzo(a)anthracene

Concen: 1.204 ng/ul

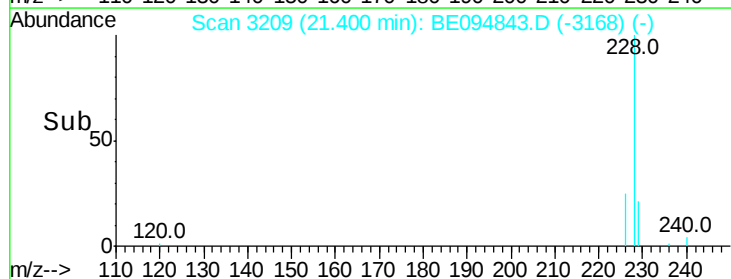
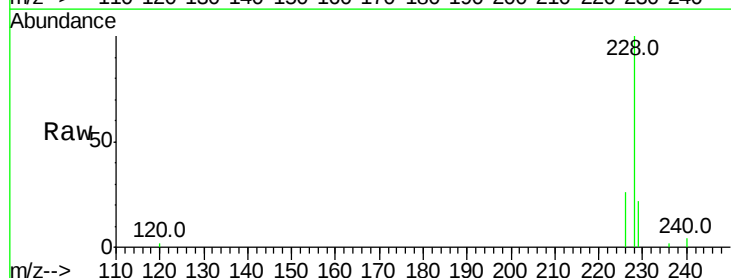
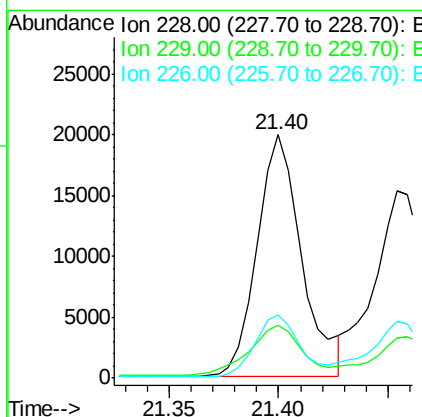
RT: 21.40 min Scan# 3209

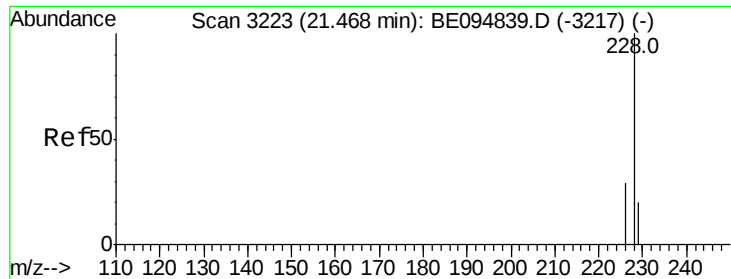
Delta R.T. -0.01 min

Lab File: BE094843.D

Acq: 22 Nov 2017 21:53

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 28211 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 21.7  | 22.8  | 34.2# |
| 226       | 25.8  | 17.0  | 25.6# |





#19

Chrysene

Concen: 1.071 ng/ul

RT: 21.45 min Scan# 3221

Delta R.T. -0.01 min

Lab File: BE094843.D

Acq: 22 Nov 2017 21:53

Instrument :

BNA\_E

ClientSampleId :

C0AA2

Tot Ion:228 Resp: 25039

Ion Ratio Lower Upper

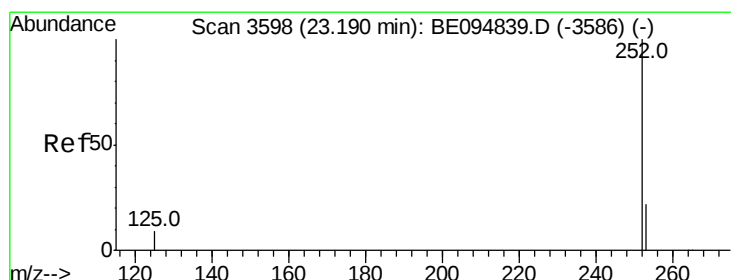
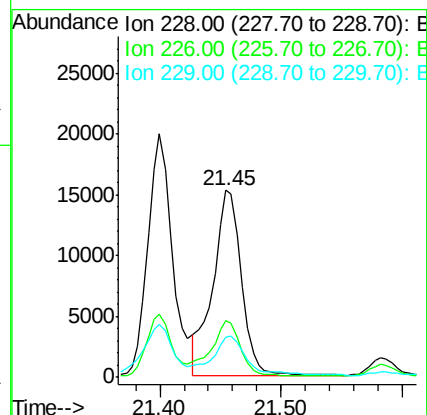
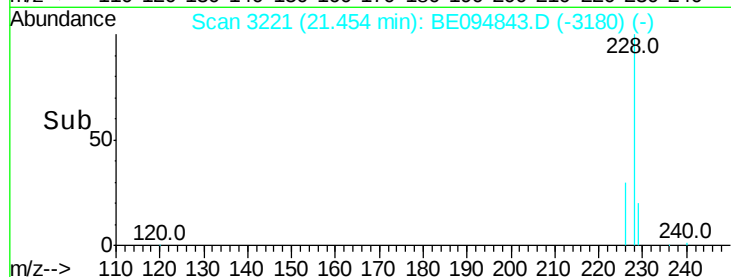
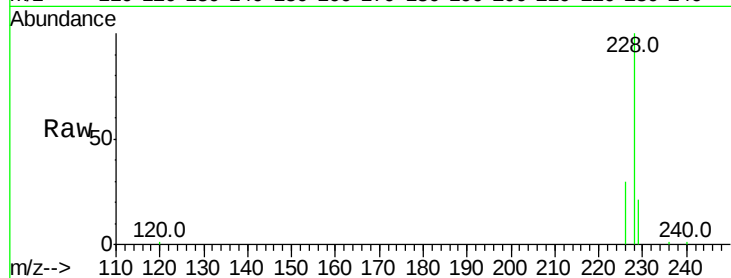
228 100

226 30.3 23.4 35.0

229 21.4 17.7 26.5

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#21

Benzo(b)fluoranthene

Concen: 1.435 ng/ul m

RT: 23.17 min Scan# 3595

Delta R.T. -0.02 min

Lab File: BE094843.D

Acq: 22 Nov 2017 21:53

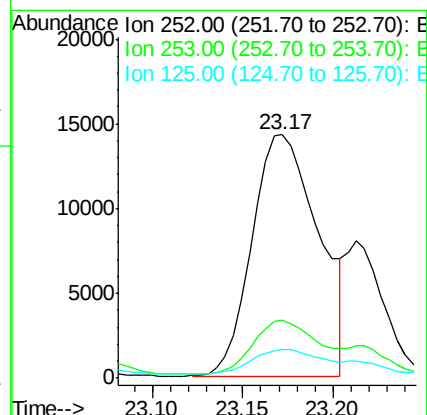
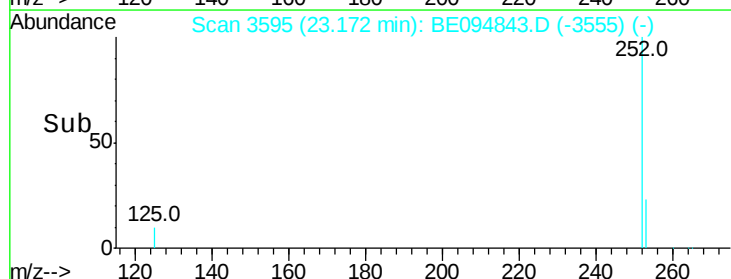
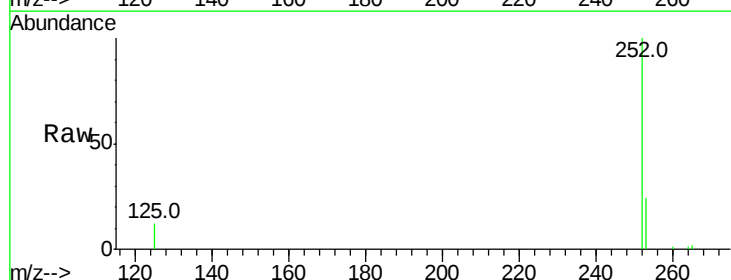
Tgt Ion:252 Resp: 36692

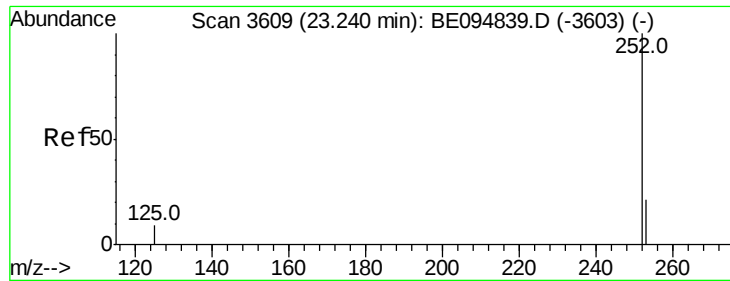
Ion Ratio Lower Upper

252 100

253 23.6 0.0 64.2

125 11.7 0.0 35.0





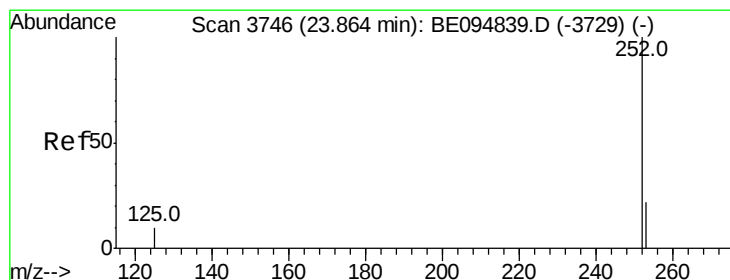
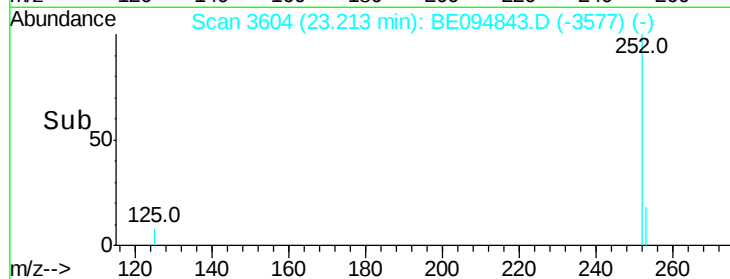
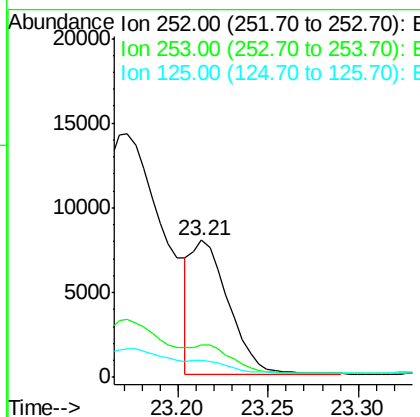
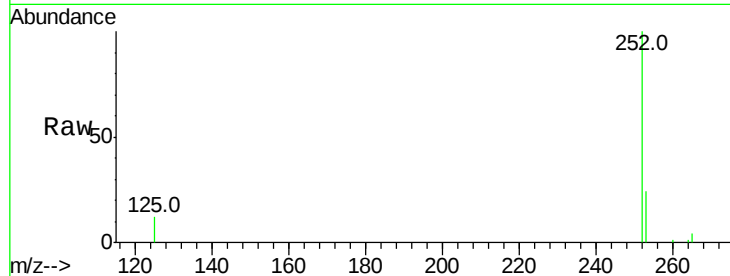
#22  
Benzo(k)fluoranthene  
Concen: 0.421 ng/ul m  
RT: 23.21 min Scan# 3604  
Delta R.T. -0.03 min  
Lab File: BE094843.D  
Acq: 22 Nov 2017 21:53

Instrument :  
BNA\_E  
ClientSampleId :  
C0AA2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 24.5  | 36.7# |
| 125     | 12.4  | 13.7  | 20.5# |

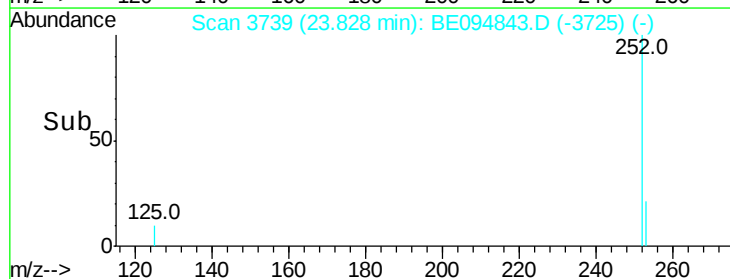
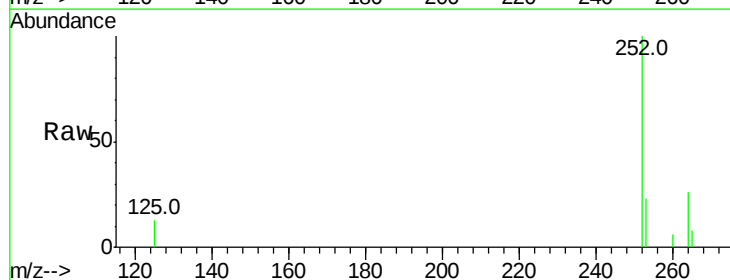
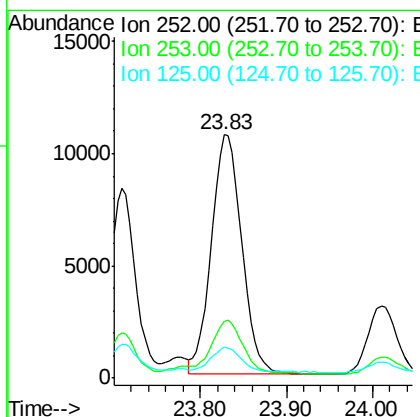
Manual Integrations  
APPROVED

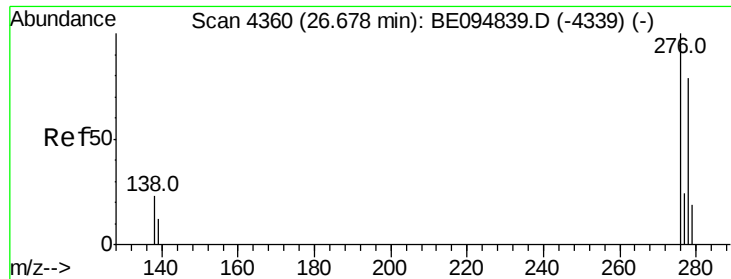
Sohil  
11/27/2017 3:25:43 PM



#23  
Benzo(a)pyrene  
Concen: 1.044 ng/ul  
RT: 23.83 min Scan# 3739  
Delta R.T. -0.04 min  
Lab File: BE094843.D  
Acq: 22 Nov 2017 21:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 28.5  | 42.7# |
| 125     | 12.5  | 18.1  | 27.1# |





#24

Indeno(1,2,3-cd)pyrene

Concen: 0.628 ng/ul

RT: 26.65 min Scan# 4356

Delta R.T. -0.02 min

Lab File: BE094843.D

Acq: 22 Nov 2017 21:53

Instrument :

BNA\_E

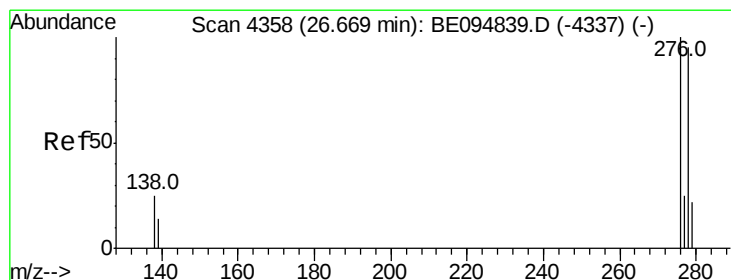
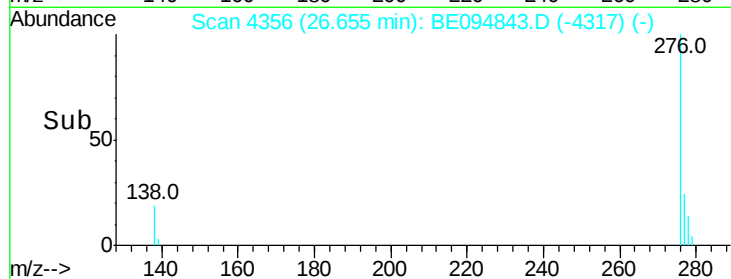
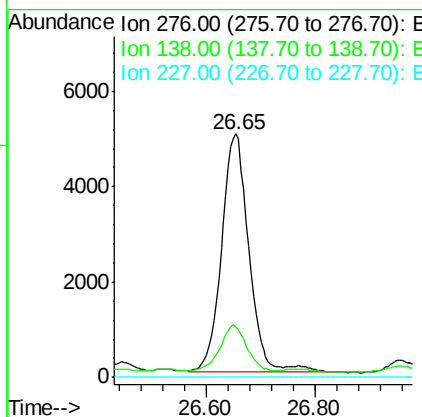
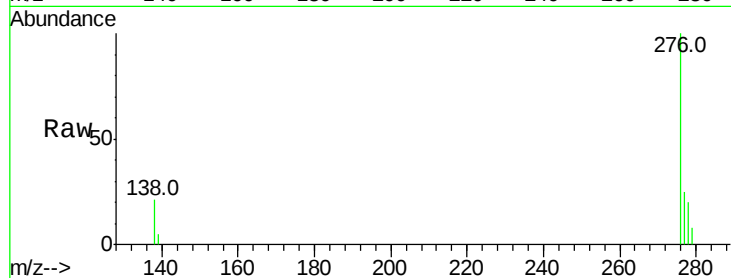
ClientSampleId :

C0AA2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.8  | 28.0  | 42.0# |
| 227     | 0.0   | 8.0   | 12.0# |

Manual Integrations  
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11/27/2017 3:25:43 PM



#25

Dibenzo(a,h)anthracene

Concen: 0.184 ng/ul

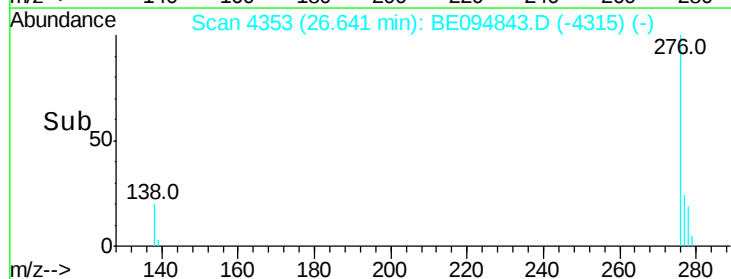
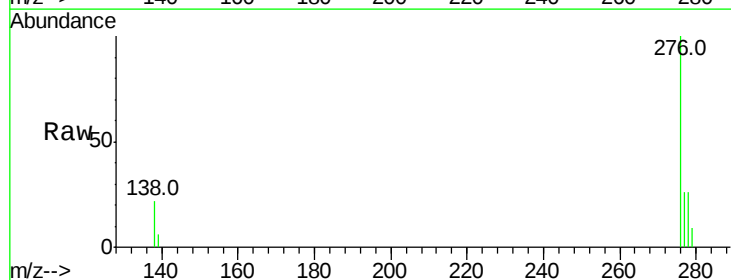
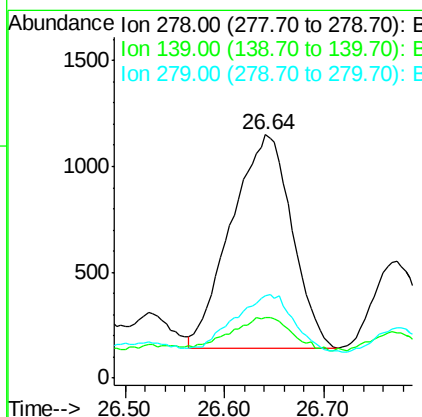
RT: 26.64 min Scan# 4353

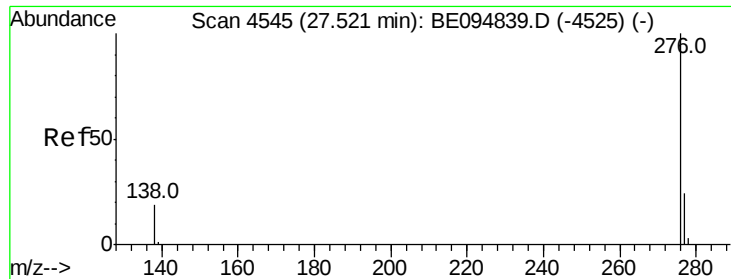
Delta R.T. -0.03 min

Lab File: BE094843.D

Acq: 22 Nov 2017 21:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 24.8  | 17.4  | 26.0  |
| 279     | 33.8  | 25.9  | 38.9  |





#26

Benzo(a,h,i)perylene

Concen: 0.623 ng/ul

RT: 27.49 min Scan# 4539

Delta R.T. -0.03 min

Lab File: BE094843.D

Acq: 22 Nov 2017 21:53

Instrument :

BNA\_E

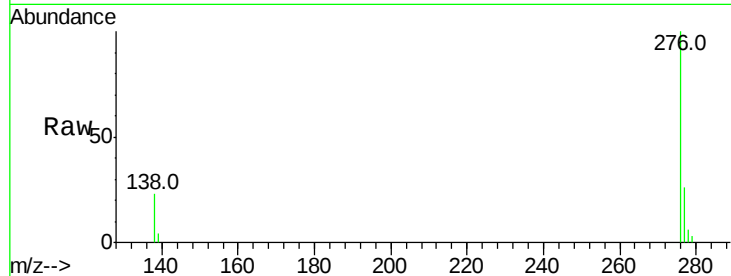
ClientSampleId :

C0AA2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 14462 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 22.6  | 21.8  | 32.8  |
| 277       | 26.3  | 20.5  | 30.7  |

Manual Integrations  
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11/27/2017 3:25:43 PM



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

