

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE092917\  
 Data File : BE094148.D  
 Acq On : 29 Sep 2017 12:15  
 Operator : SJ/JU  
 Sample : I5505-02  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 B0AD5

Manual Integrations  
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Quant Time: Sep 29 14:50:47 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE092017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 29 14:23:42 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.90  | 152  | 1460     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.69 | 136  | 7395     | 0.40   | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.51 | 164  | 5312     | 0.40   | ng/ul  | -0.02    |
| 10) Phenanthrene-d10        | 17.24 | 188  | 13450m   | 0.40   | ng/ul  | -0.03    |
| 16) Chrysene-d12            | 21.41 | 240  | 13643    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.91 | 264  | 12246m   | 0.40   | ng/ul  | -0.01    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.27 | 152  | 3080     | 0.27   | ng/ul  | -0.02    |
| 14) Fluoranthene-d10        | 19.27 | 212  | 10665    | 0.24   | ng/ul  | -0.02    |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 3) Naphthalene              | 10.74 | 128  | 41516    | 2.292  | ng/ul# | 91       |
| 5) 2-Methylnaphthalene      | 12.34 | 142  | 13075    | 1.113  | ng/ul  | 98       |
| 7) Acenaphthylene           | 14.23 | 152  | 65391    | 3.158  | ng/ul  | 96       |
| 8) Acenaphthene             | 14.57 | 153  | 140159   | 8.221  | ng/ul  | 97       |
| 9) Fluorene                 | 15.56 | 166  | 167324   | 8.381  | ng/ul# | 94       |
| 12) Phenanthrene            | 17.29 | 178  | 2041785  | 58.092 | ng/ul# | 93       |
| 13) Anthracene              | 17.38 | 178  | 677835   | 19.829 | ng/ul# | 91       |
| 15) Fluoranthene            | 19.30 | 202  | 3256557  | 70.515 | ng/ul  | 84       |
| 17) Pyrene                  | 19.66 | 202  | 2675755  | 70.490 | ng/ul# | 84       |
| 18) Benzo(a)anthracene      | 21.39 | 228  | 1419702  | 39.226 | ng/ul# | 85       |
| 19) Chrysene                | 21.45 | 228  | 1265640  | 30.281 | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 23.15 | 252  | 1641294m | 49.338 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.19 | 252  | 546464m  | 14.212 | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.81 | 252  | 1200957m | 34.742 | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 26.57 | 276  | 767114m  | 21.693 | ng/ul  |          |
| 25) Dibenzo(a,h)anthracene  | 26.57 | 278  | 194714m  | 6.565  | ng/ul  |          |
| 26) Benzo(g,h,i)perylene    | 27.39 | 276  | 664607m  | 21.789 | ng/ul  |          |

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

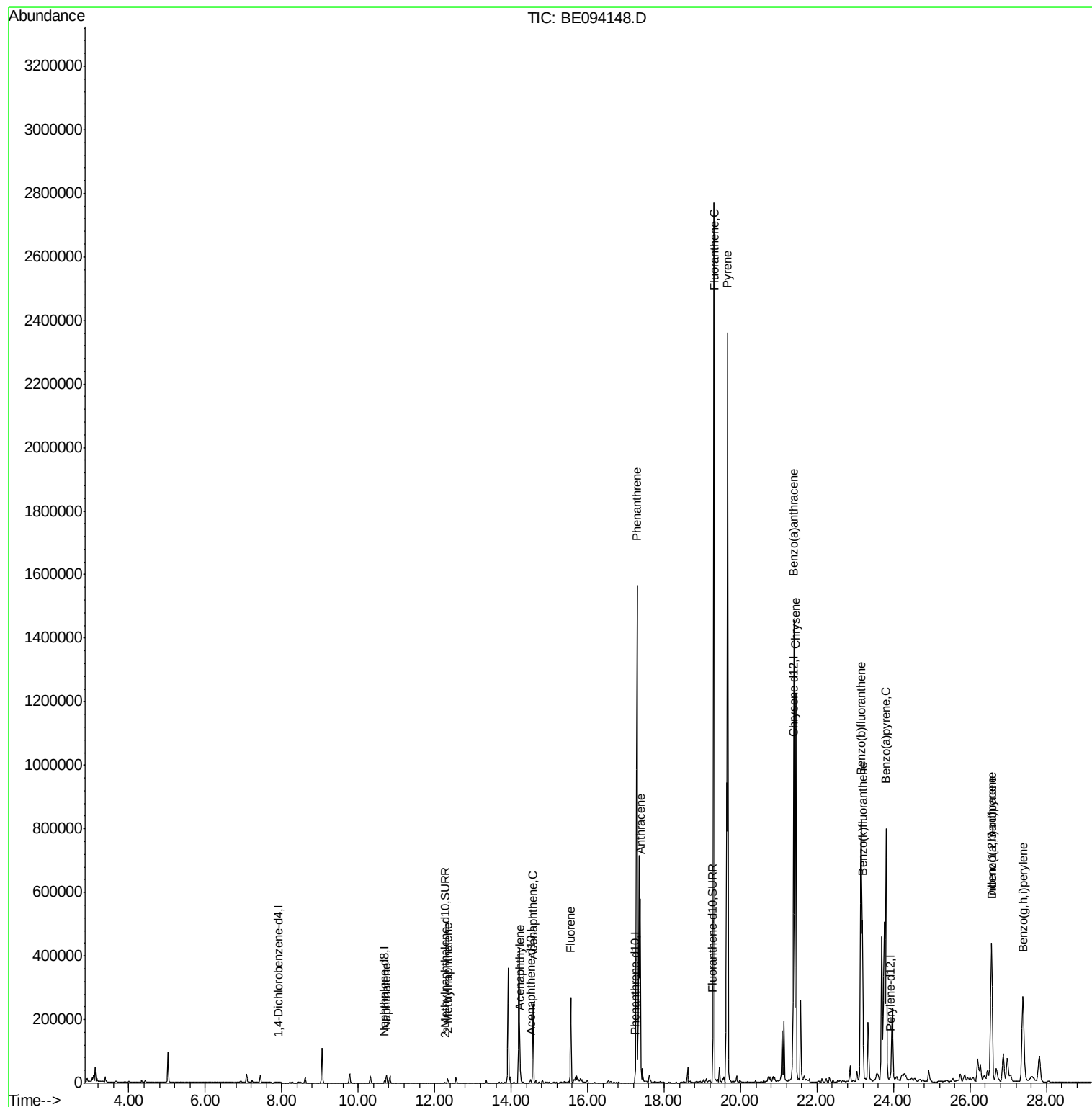
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE092917\  
Data File : BE094148.D  
Acq On : 29 Sep 2017 12:15  
Operator : SJ/JU  
Sample : I5505-02  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

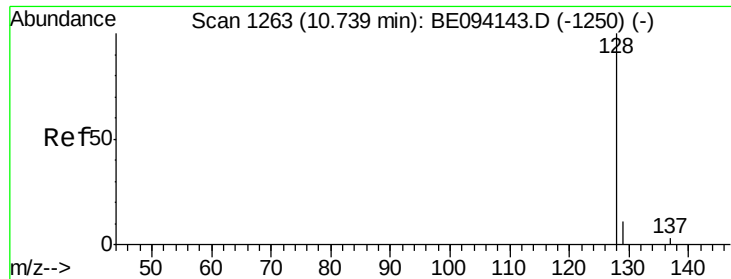
Instrument :  
BNA\_E  
ClientSampleId :  
B0AD5

Quant Time: Sep 29 14:50:47 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE092017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Sep 29 14:23:42 2017  
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#3

Naphthalene

Concen: 2.292 ng/ul

RT: 10.74 min Scan# 1263

Delta R.T. -0.01 min

Lab File: BE094148.D

Acq: 29 Sep 2017 12:15

Instrument :

BNA\_E

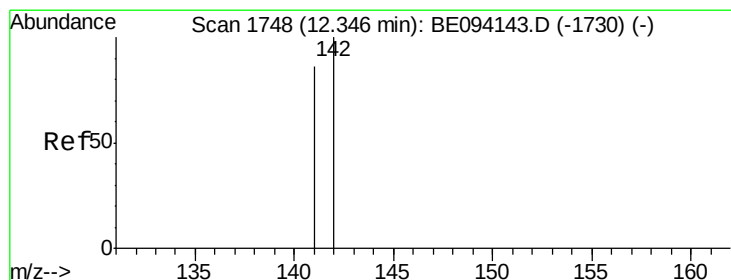
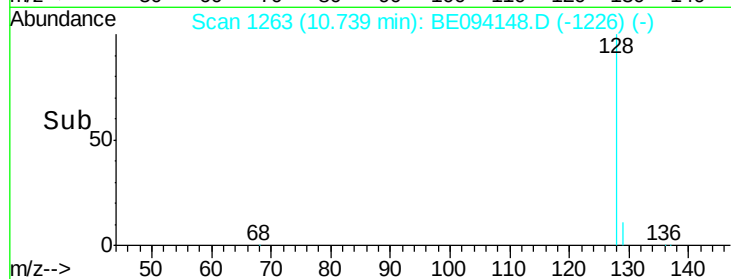
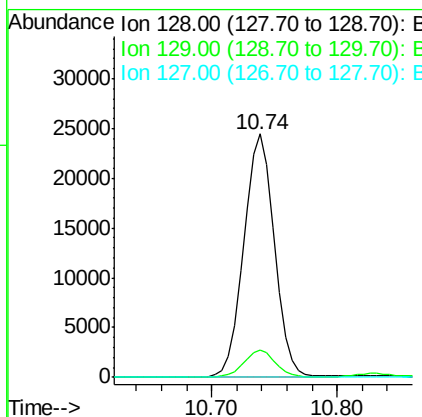
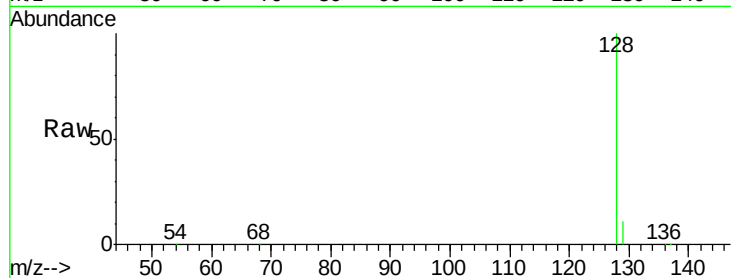
ClientSampleId :

B0AD5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 41516 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 11.3  | 11.3  | 16.9  |
| 127       | 0.0   | 4.0   | 6.0#  |

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#5

2-Methylnaphthalene

Concen: 1.113 ng/ul

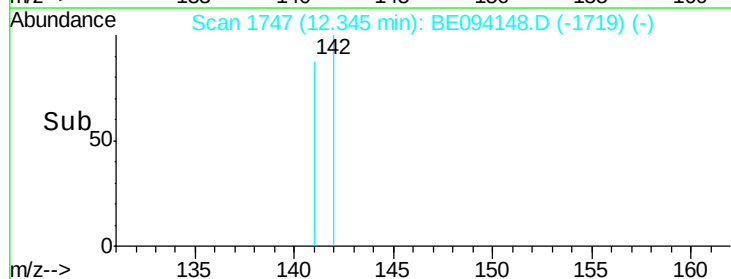
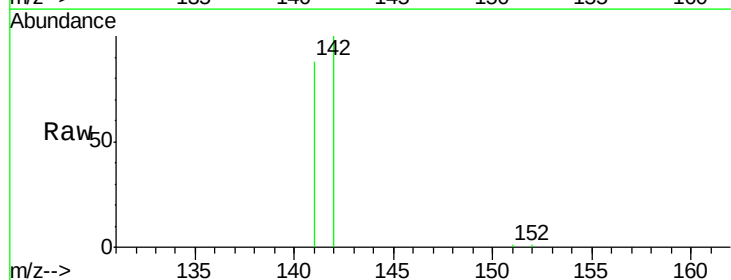
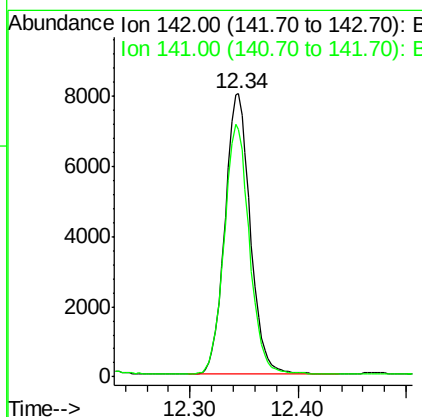
RT: 12.34 min Scan# 1747

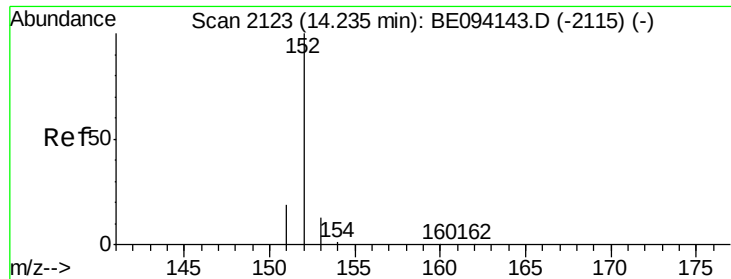
Delta R.T. -0.01 min

Lab File: BE094148.D

Acq: 29 Sep 2017 12:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 13075 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 88.6  | 72.6  | 108.8 |





#7

Acenaphthylene

Concen: 3.158 ng/ul

RT: 14.23 min Scan# 2122

Delta R.T. -0.02 min

Lab File: BE094148.D

Acq: 29 Sep 2017 12:15

Instrument :

BNA\_E

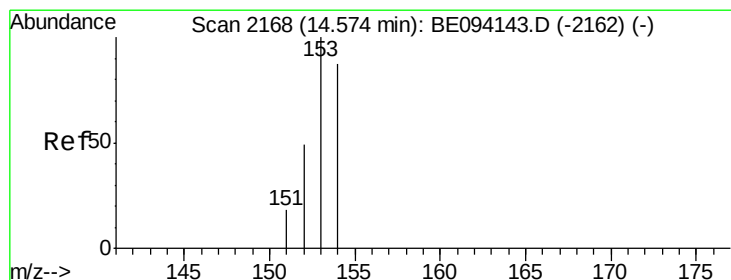
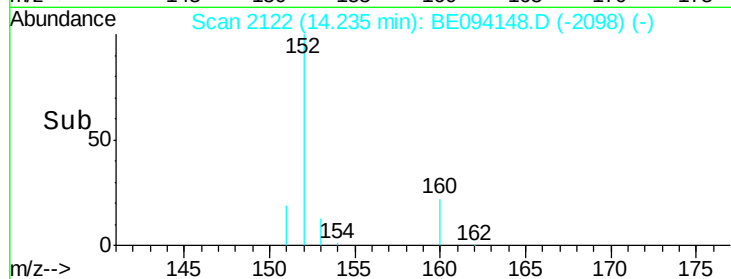
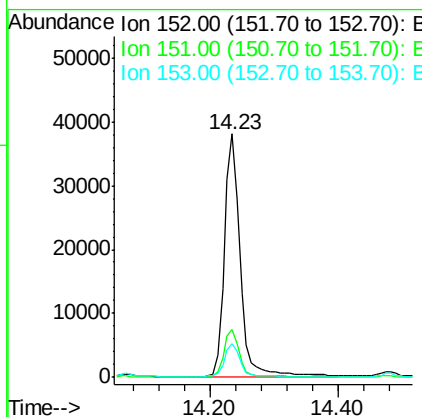
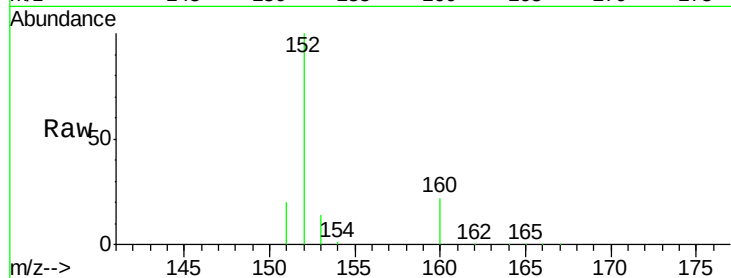
ClientSampled :

B0AD5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 65391 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.7  | 17.1  | 25.7  |
| 153       | 13.9  | 12.8  | 19.2  |

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#8

Acenaphthene

Concen: 8.221 ng/ul

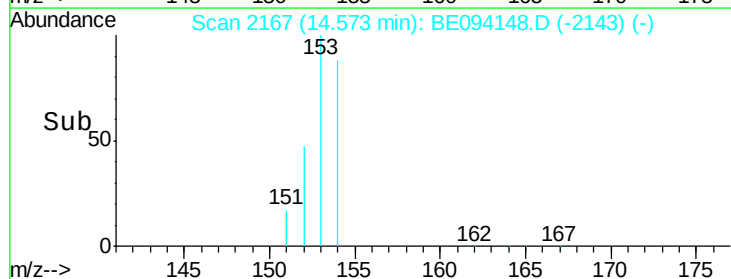
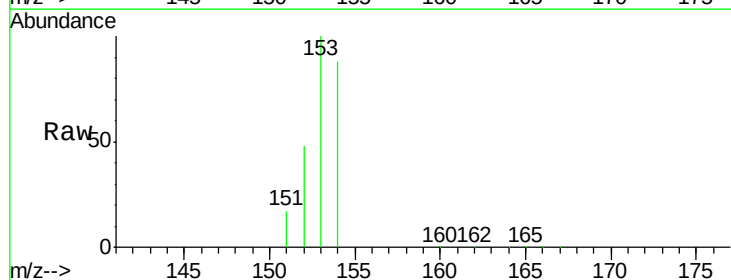
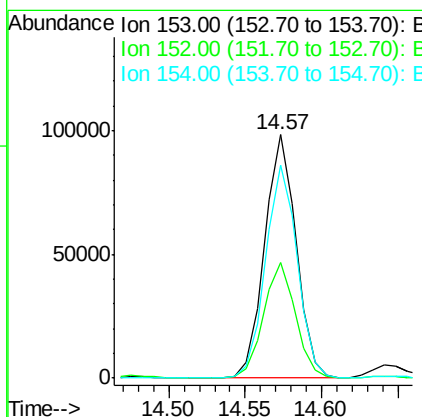
RT: 14.57 min Scan# 2167

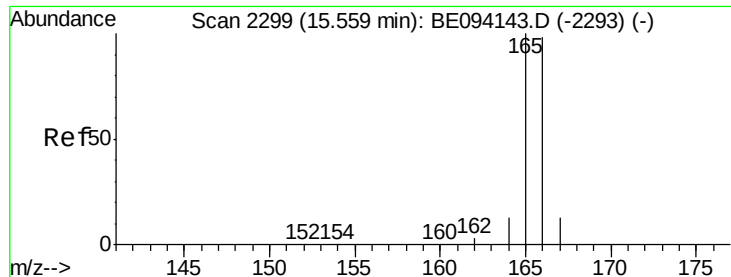
Delta R.T. -0.02 min

Lab File: BE094148.D

Acq: 29 Sep 2017 12:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 153   | Resp: | 140159 |
| Ion Ratio | Lower | Upper |        |
| 153       | 100   |       |        |
| 152       | 47.5  | 40.3  | 60.5   |
| 154       | 87.7  | 71.4  | 107.2  |





#9

Fluorene

Concen: 8.381 ng/ul

RT: 15.56 min Scan# 2298

Delta R.T. -0.02 min

Lab File: BE094148.D

Acq: 29 Sep 2017 12:15

Instrument :

BNA\_E

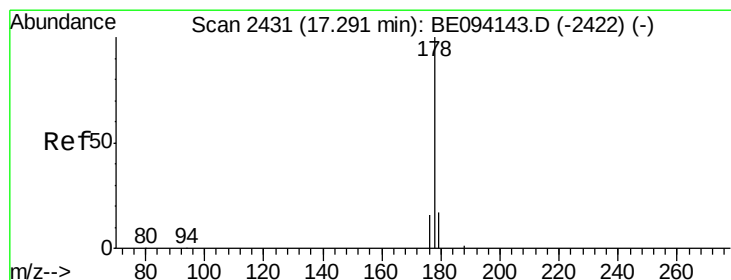
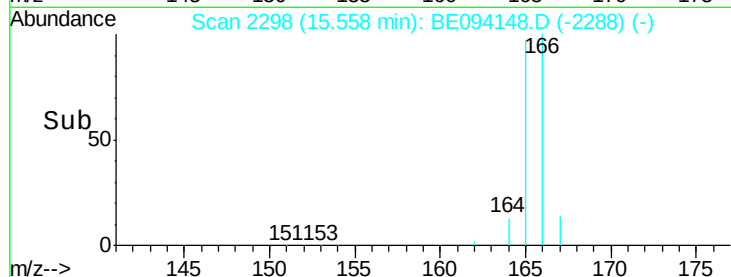
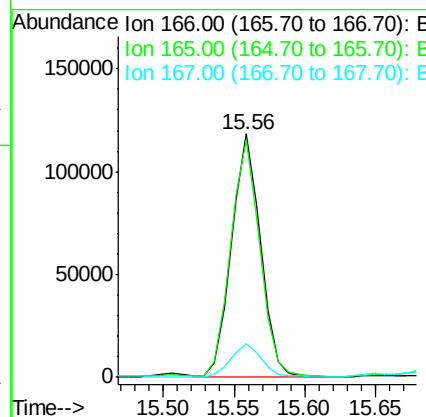
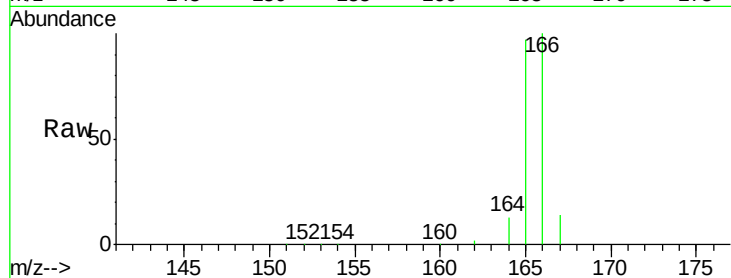
ClientSampleId :

B0AD5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 166   | Resp: | 167324 |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 165       | 97.3  | 73.4  | 110.2  |
| 167       | 14.0  | 14.6  | 22.0#  |

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#12

Phenanthrene

Concen: 58.092 ng/ul

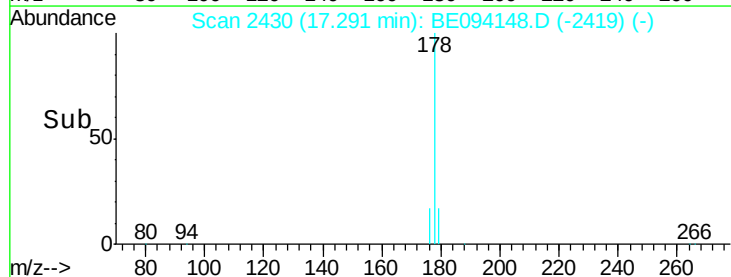
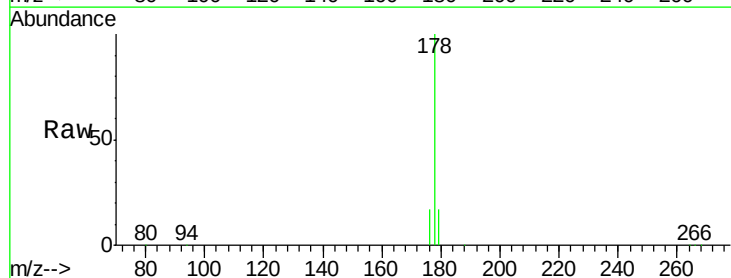
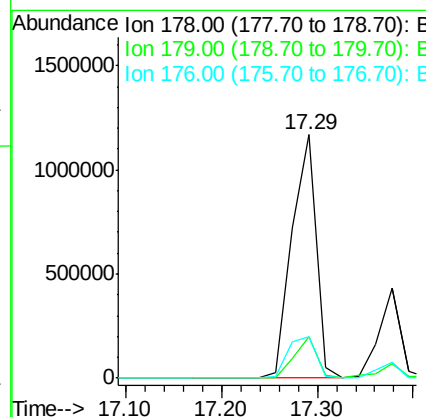
RT: 17.29 min Scan# 2430

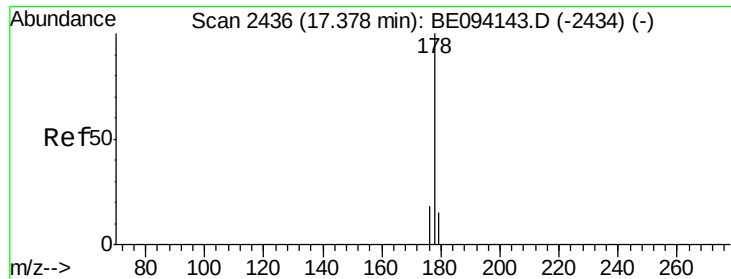
Delta R.T. -0.02 min

Lab File: BE094148.D

Acq: 29 Sep 2017 12:15

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 178   | Resp: | 2041785 |
| Ion Ratio | Lower | Upper |         |
| 178       | 100   |       |         |
| 179       | 17.0  | 18.4  | 27.6#   |
| 176       | 16.8  | 13.6  | 20.4    |





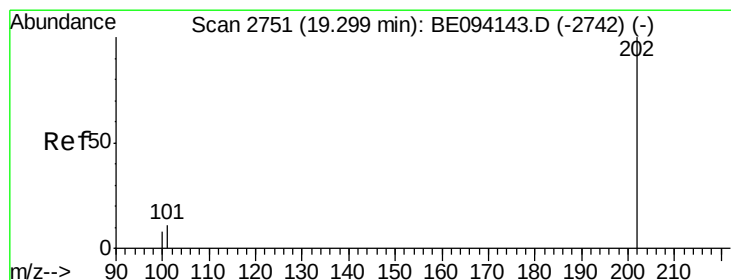
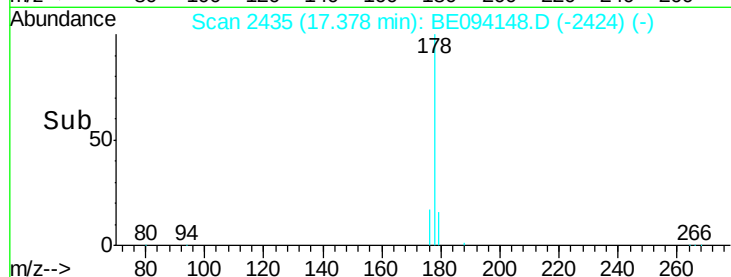
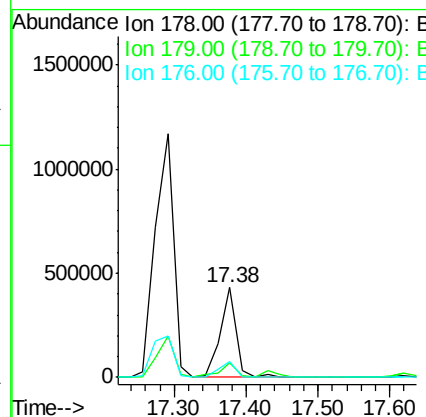
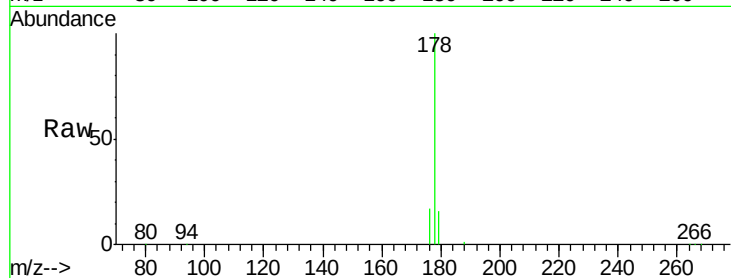
#13  
 Anthracene  
 Concen: 19.829 ng/ul  
 RT: 17.38 min Scan# 2435  
 Delta R.T. -0.02 min  
 Lab File: BE094148.D  
 Acq: 29 Sep 2017 12:15

Instrument :  
 BNA\_E  
 ClientSampled :  
 B0AD5

Tgt Ion:178 Resp: 677835  
 Ion Ratio Lower Upper  
 178 100  
 179 16.2 18.1 27.1#  
 176 17.0 14.7 22.1

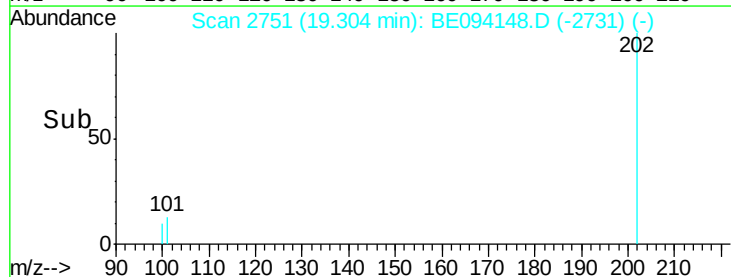
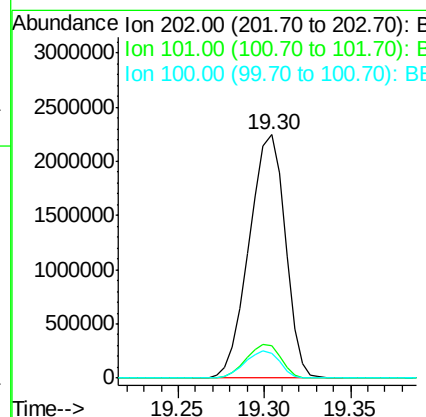
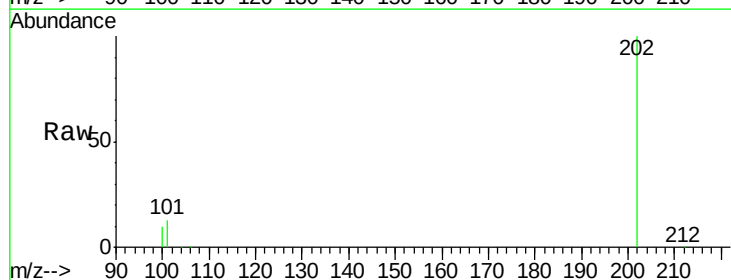
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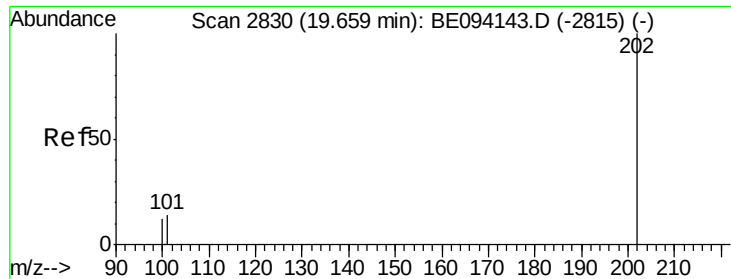
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#15  
 Fluoranthene  
 Concen: 70.515 ng/ul  
 RT: 19.30 min Scan# 2751  
 Delta R.T. -0.01 min  
 Lab File: BE094148.D  
 Acq: 29 Sep 2017 12:15

Tgt Ion:202 Resp: 3256557  
 Ion Ratio Lower Upper  
 202 100  
 101 13.1 0.0 30.3  
 100 10.2 0.0 39.5





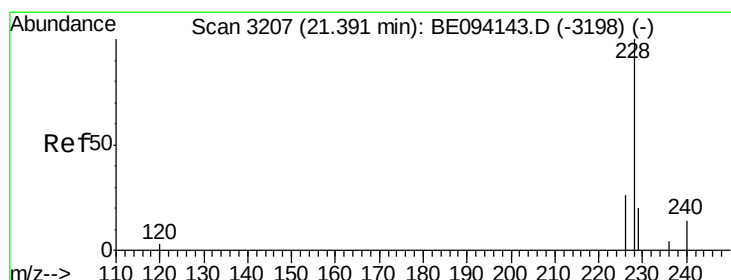
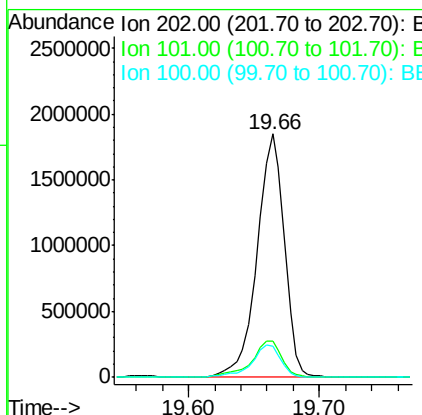
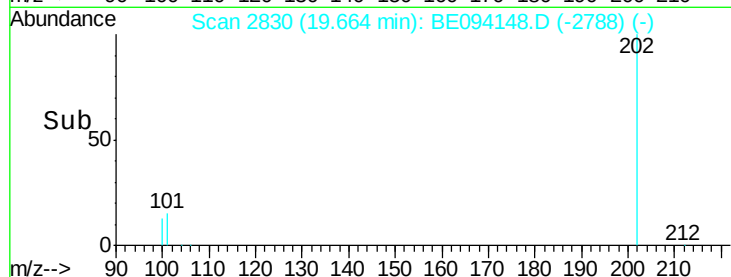
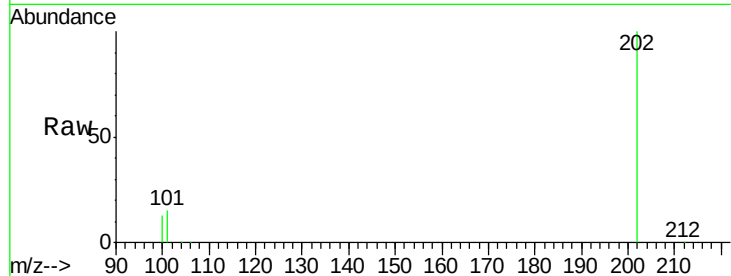
#17  
**Pyrene**  
 Concen: 70.490 ng/ul  
 RT: 19.66 min Scan# 2830  
 Delta R.T. -0.01 min  
 Lab File: BE094148.D  
 Acq: 29 Sep 2017 12:15

Instrument :  
 BNA\_E  
 ClientSampleId :  
 B0AD5

Tgt Ion:202 Resp: 2675755  
 Ion Ratio Lower Upper  
 202 100  
 101 14.7 18.2 27.4#  
 100 12.6 15.6 23.4#

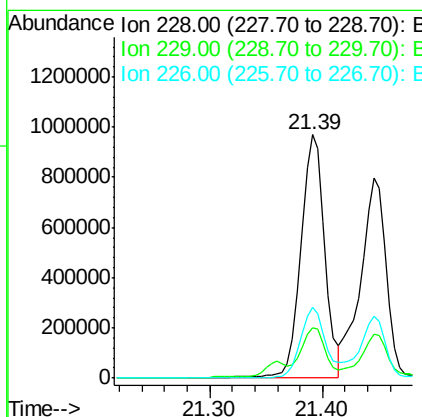
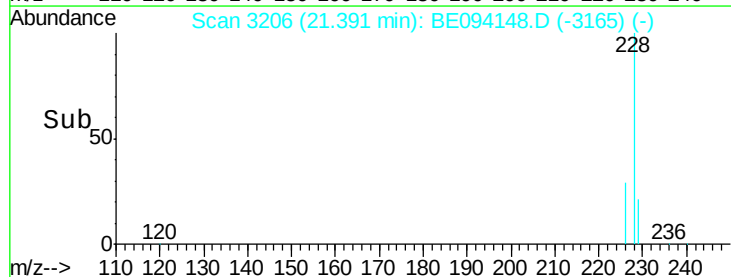
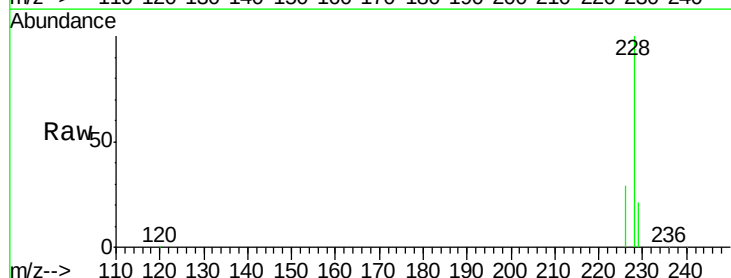
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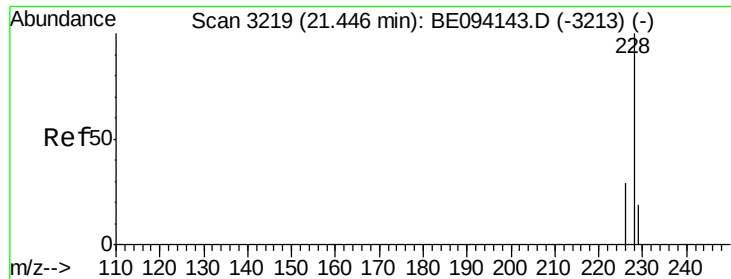
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#18  
**Benzo(a)anthracene**  
 Concen: 39.226 ng/ul  
 RT: 21.39 min Scan# 3206  
 Delta R.T. -0.01 min  
 Lab File: BE094148.D  
 Acq: 29 Sep 2017 12:15

Tgt Ion:228 Resp: 1419702  
 Ion Ratio Lower Upper  
 228 100  
 229 20.8 22.8 34.2#  
 226 29.1 17.0 25.6#





#19

Chrysene

Concen: 30.281 ng/ul

RT: 21.45 min Scan# 3218

Delta R.T. -0.01 min

Lab File: BE094148.D

Acq: 29 Sep 2017 12:15

Instrument :

BNA\_E

ClientSampleId :

B0AD5

Tgt Ion:228 Resp: 1265640

Ion Ratio Lower Upper

228 100

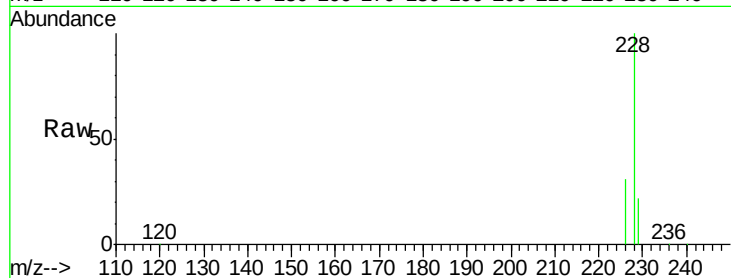
226 31.0 23.4 35.0

229 22.2 17.7 26.5

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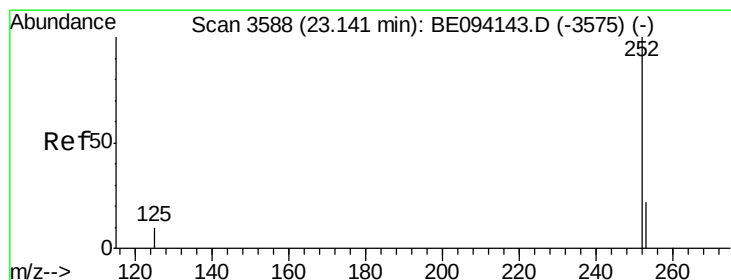
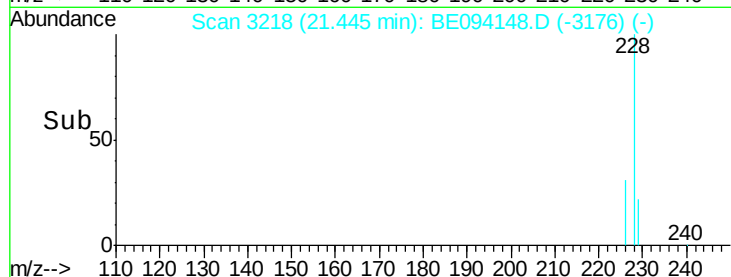
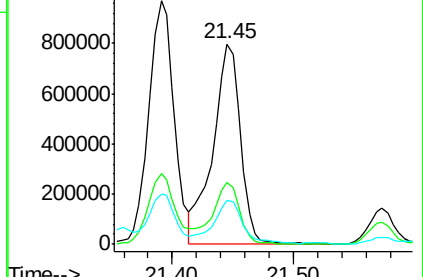
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#21

Benzo(b)fluoranthene

Concen: 49.338 ng/ul m

RT: 23.15 min Scan# 3590

Delta R.T. 0.00 min

Lab File: BE094148.D

Acq: 29 Sep 2017 12:15

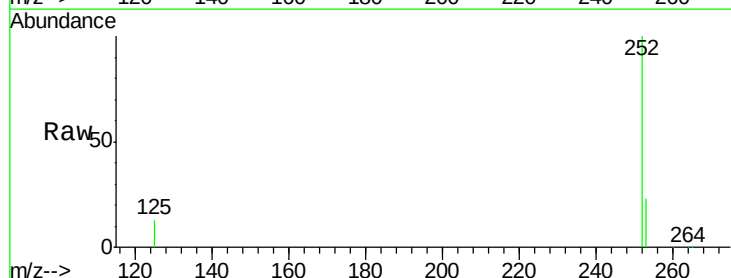
Tgt Ion:252 Resp: 1641294

Ion Ratio Lower Upper

252 100

253 23.0 0.0 64.2

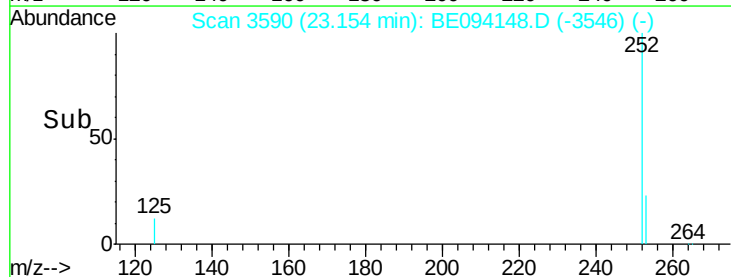
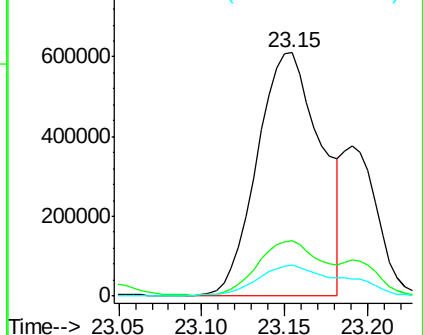
125 12.6 0.0 35.0



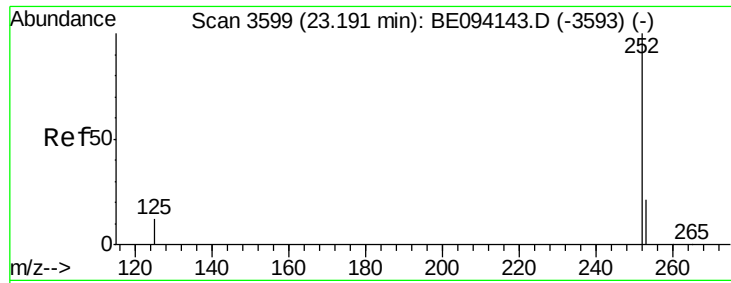
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E







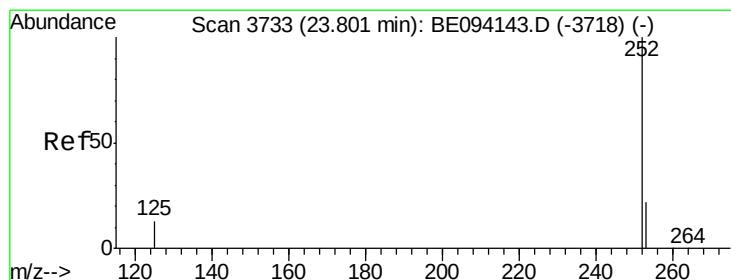
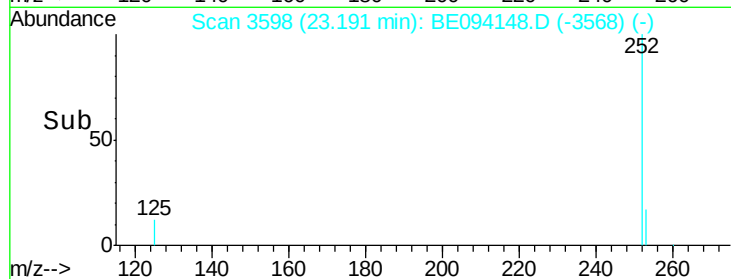
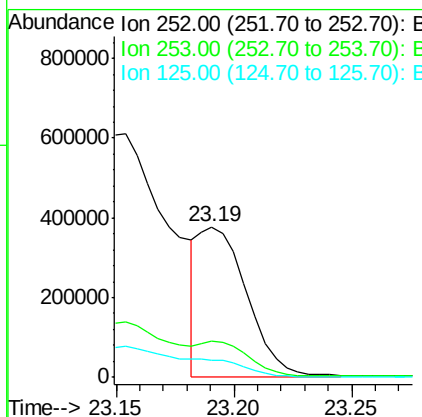
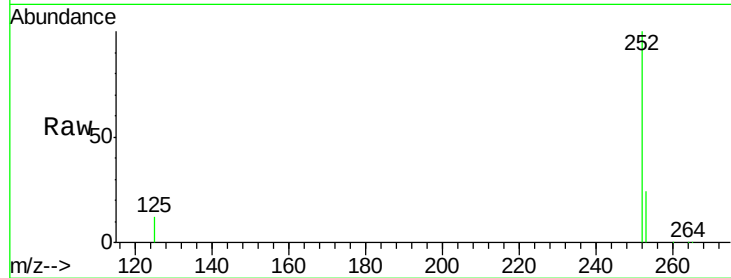
#22  
Benzo(k)fluoranthene  
Concen: 14.212 ng/ul m  
RT: 23.19 min Scan# 3598  
Delta R.T. -0.01 min  
Lab File: BE094148.D  
Acq: 29 Sep 2017 12:15

Instrument :  
BNA\_E  
ClientSampleId :  
B0AD5

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 24.5  | 36.7# |
| 125     | 11.8  | 13.7  | 20.5# |

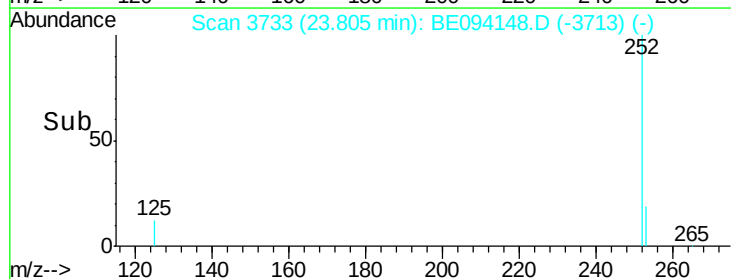
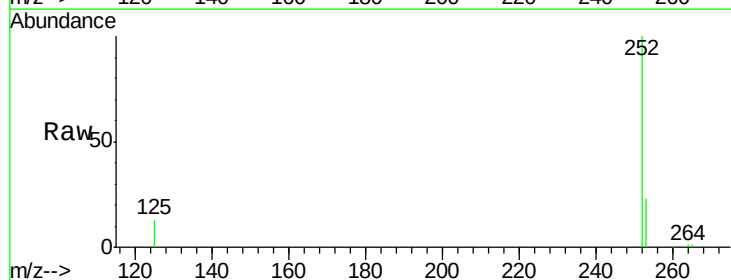
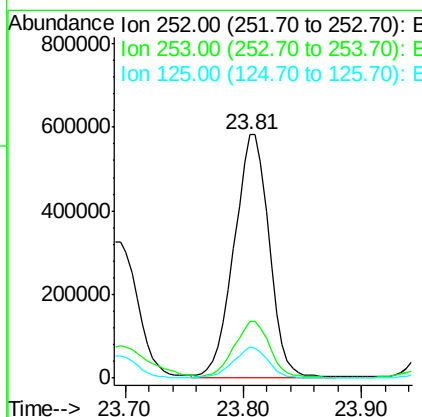
Manual Integrations  
APPROVED

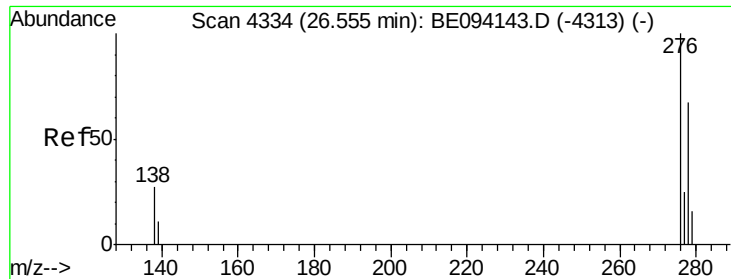
Sohil  
10/2/2017 5:37:25 PM



#23  
Benzo(a)pyrene  
Concen: 34.742 ng/ul m  
RT: 23.81 min Scan# 3733  
Delta R.T. -0.01 min  
Lab File: BE094148.D  
Acq: 29 Sep 2017 12:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 28.5  | 42.7# |
| 125     | 12.7  | 18.1  | 27.1# |





#24

Indeno(1,2,3-cd)pyrene

Concen: 21.693 ng/ul m

RT: 26.57 min Scan# 4336

Delta R.T. -0.01 min

Lab File: BE094148.D

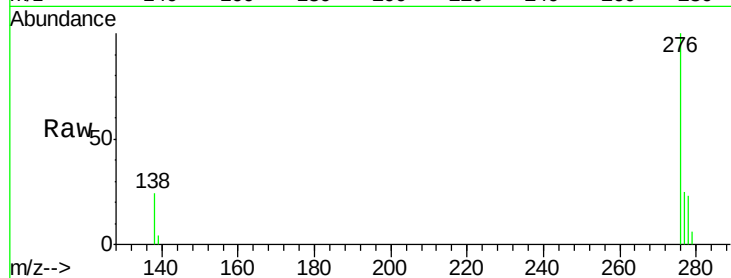
Acq: 29 Sep 2017 12:15

Instrument :

BNA\_E

ClientSampleId :

B0AD5



Tgt Ion: 276 Resp: 767114

Ion Ratio Lower Upper

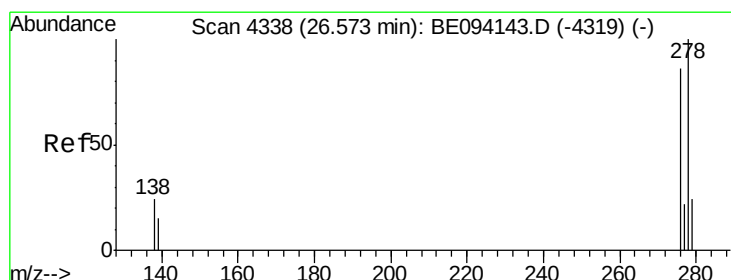
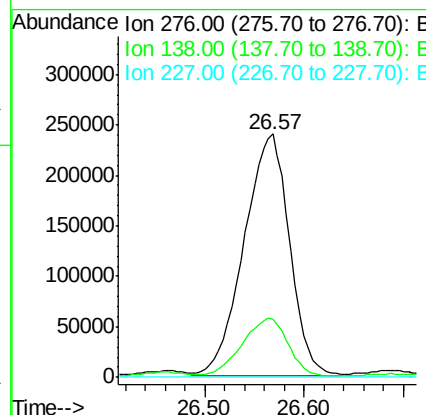
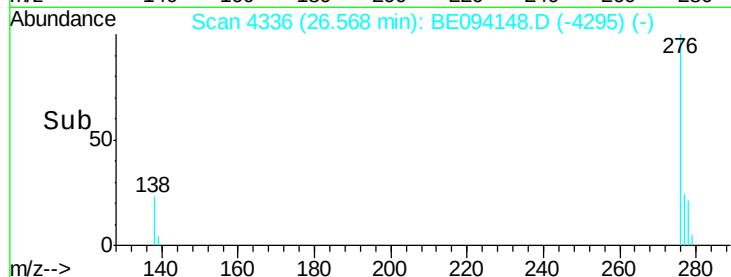
276 100

138 0.7 28.0 42.0#

227 0.0 8.0 12.0#

Manual Integrations  
APPROVED

Sohil  
10/2/2017 5:37:25 PM



#25

Dibenzo(a,h)anthracene

Concen: 6.565 ng/ul m

RT: 26.57 min Scan# 4336

Delta R.T. -0.03 min

Lab File: BE094148.D

Acq: 29 Sep 2017 12:15

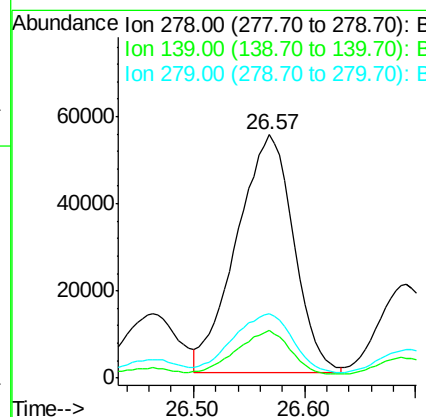
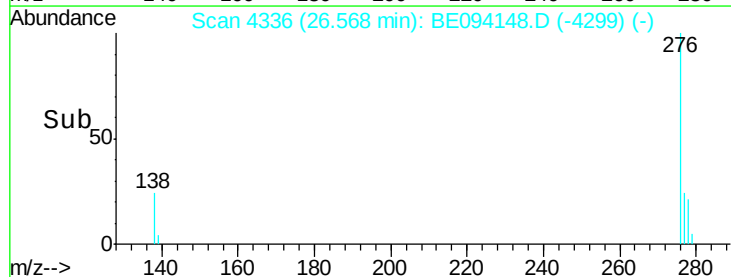
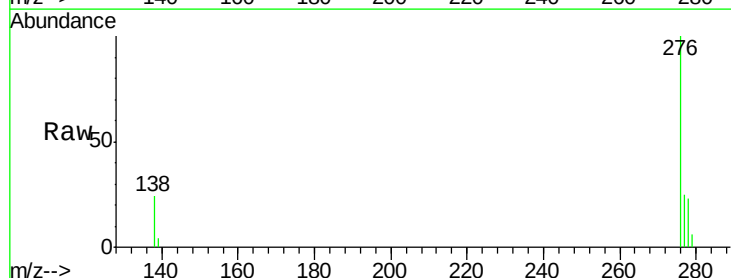
Tgt Ion: 278 Resp: 194714

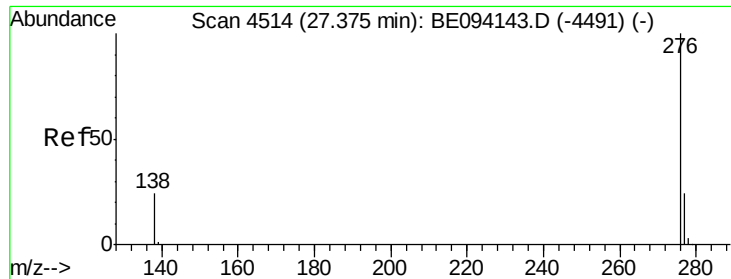
Ion Ratio Lower Upper

278 100

139 19.4 17.4 26.0

279 26.3 25.9 38.9





#26

Benzo(g,h,i)perylene

Concen: 21.789 ng/ul m

RT: 27.39 min Scan# 4516

Delta R.T. -0.01 min

Lab File: BE094148.D

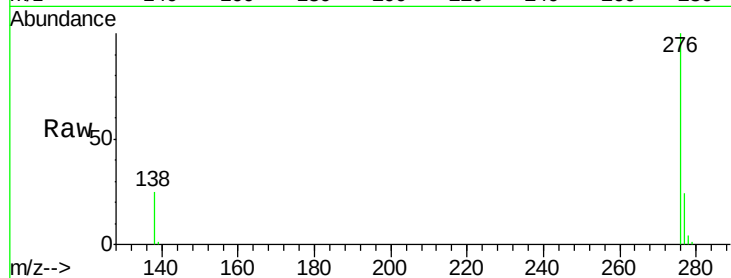
Acq: 29 Sep 2017 12:15

Instrument :

BNA\_E

ClientSampleId :

B0AD5



Tgt Ion: 276 Resp: 664607

Ion Ratio Lower Upper

276 100

138 24.6 21.8 32.8

277 24.2 20.5 30.7

Manual Integrations  
APPROVED

Sohil  
10/2/2017 5:37:25 PM

