

Data Path : Z:\HPCHEM1\BNA E\DATA\BE110617\  
 Data File : BE094755.D  
 Acq On : 6 Nov 2017 16:16  
 Operator : SJ/JU  
 Sample : I6120-07 5X  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 B-78(0.5-1.5)-102517

Quant Time: Nov 07 00:13:59 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 00:12:32 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.91  | 152  | 1248     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.69 | 136  | 7588     | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.51 | 164  | 4285     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.26 | 188  | 9141     | 0.40 | ng/ul | -0.02    |
| 16) Chrysene-d12          | 21.43 | 240  | 9337     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.97 | 264  | 9312     | 0.40 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.28 | 152  | 514      | 0.04 | ng/ul | 0.00     |
| 14) Fluoranthene-d10        | 19.28 | 212  | 1216     | 0.04 | ng/ul | 0.00     |

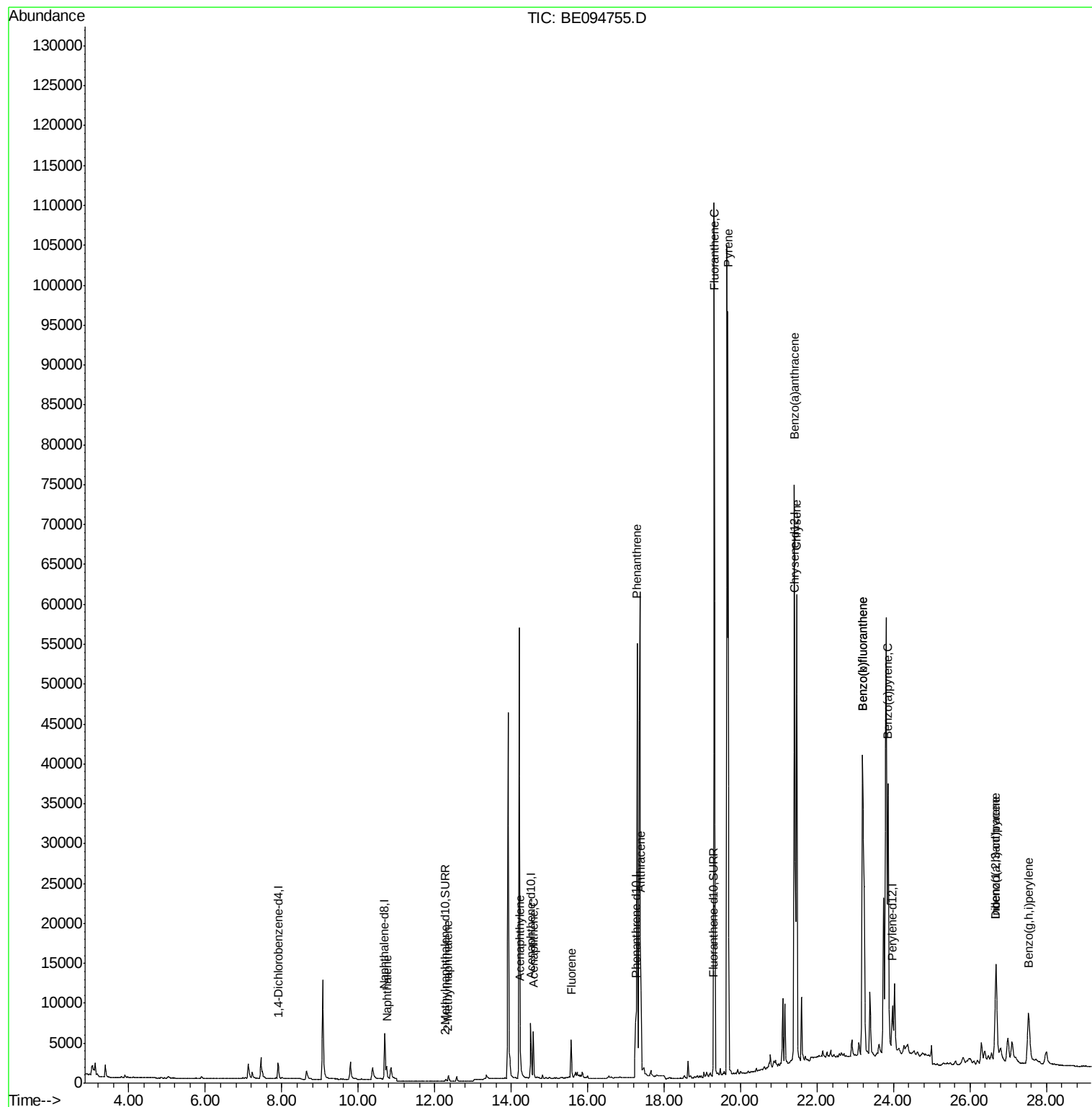
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Ovalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 10.74 | 128  | 2598     | 0.14 | ng/ul# | 92     |
| 5) 2-Methylnaphthalene     | 12.36 | 142  | 891      | 0.07 | ng/ul  | 94     |
| 7) Acenaphthylene          | 14.24 | 152  | 1068     | 0.06 | ng/ul# | 85     |
| 8) Acenaphthene            | 14.58 | 153  | 3928     | 0.28 | ng/ul  | 99     |
| 9) Fluorene                | 15.57 | 166  | 3471     | 0.22 | ng/ul  | 93     |
| 12) Phenanthrene           | 17.29 | 178  | 63727    | 2.64 | ng/ul# | 88     |
| 13) Anthracene             | 17.38 | 178  | 17830    | 0.75 | ng/ul# | 91     |
| 15) Fluoranthene           | 19.31 | 202  | 127598   | 4.57 | ng/ul  | 83     |
| 17) Pyrene                 | 19.67 | 202  | 108816   | 3.77 | ng/ul# | 80     |
| 18) Benzo(a)anthracene     | 21.41 | 228  | 70162    | 2.63 | ng/ul# | 87     |
| 19) Chrysene               | 21.47 | 228  | 61366    | 2.22 | ng/ul  | 98     |
| 21) Benzo(b)fluoranthene   | 23.19 | 252  | 104676   | 4.00 | ng/ul  | 87     |
| 22) Benzo(k)fluoranthene   | 23.19 | 252  | 104676   | 3.73 | ng/ul# | 89     |
| 23) Benzo(a)pyrene         | 23.86 | 252  | 53602    | 2.05 | ng/ul# | 82     |
| 24) Indeno(1,2,3-cd)pyrene | 26.69 | 276  | 27391    | 1.01 | ng/ul# | 74     |
| 25) Dibenzo(a,h)anthracene | 26.67 | 278  | 6810     | 0.30 | ng/ul# | 80     |
| 26) Benzo(a,h,i)perylene   | 27.53 | 276  | 20223    | 0.93 | ng/ul# | 94     |

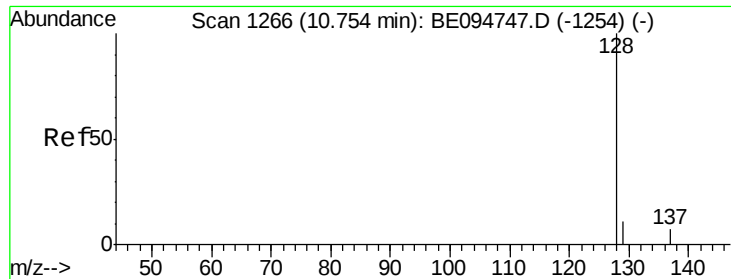
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 07 00:12:32 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.14 ng/ul

RT: 10.74 min Scan# 1264

Delta R.T. -0.01 min

Lab File: BE094755.D

Acq: 6 Nov 2017 16:16

Instrument :

BNA\_E

ClientSampleId :

B-78(0.5-1.5)-102517

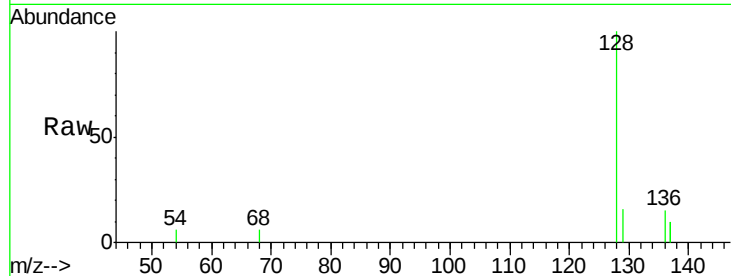
Tot Ion:128 Resp: 2598

Ion Ratio Lower Upper

128 100

129 16.1 11.3 16.9

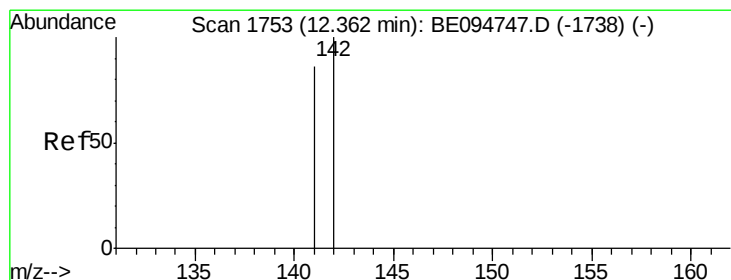
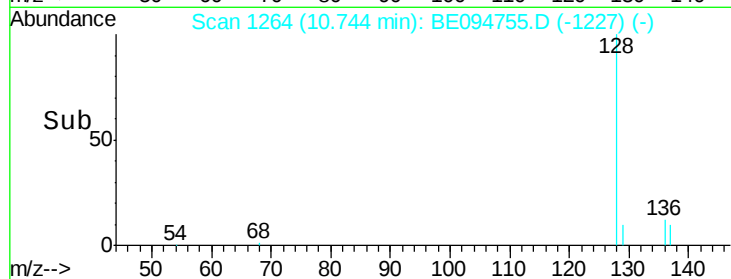
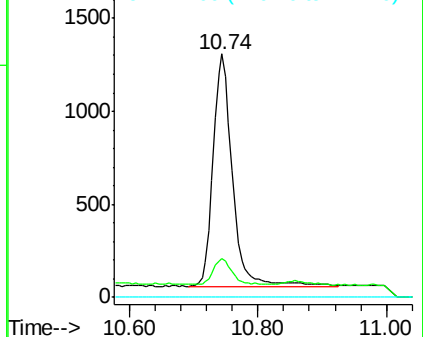
127 0.0 4.0 6.0#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5

2-Methylnaphthalene

Concen: 0.07 ng/ul

RT: 12.36 min Scan# 1752

Delta R.T. -0.00 min

Lab File: BE094755.D

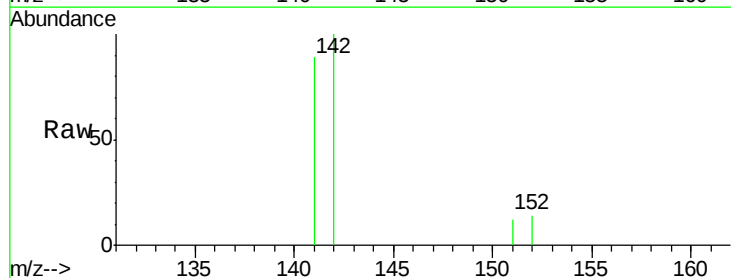
Acq: 6 Nov 2017 16:16

Tgt Ion:142 Resp: 891

Ion Ratio Lower Upper

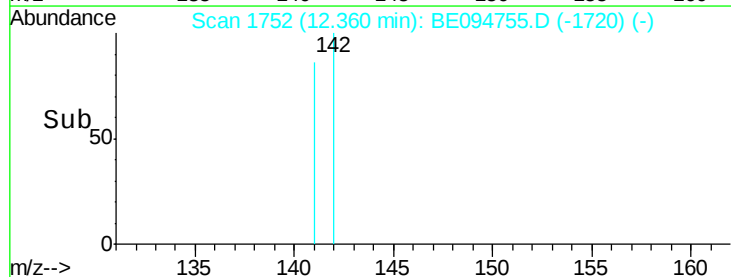
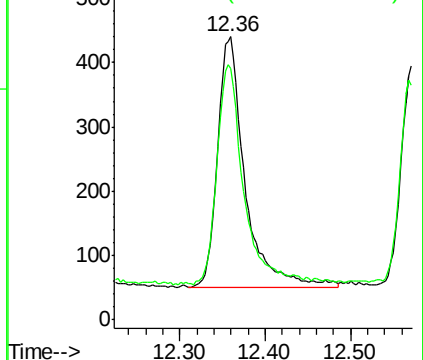
142 100

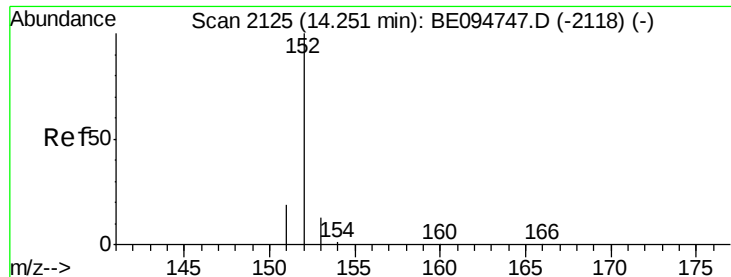
141 85.2 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.06 ng/ul

RT: 14.24 min Scan# 2124

Delta R.T. -0.01 min

Lab File: BE094755.D

Acq: 6 Nov 2017 16:16

Instrument :

BNA\_E

ClientSampleId :

B-78(0.5-1.5)-102517

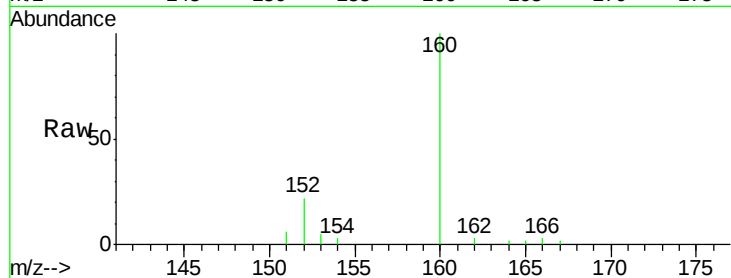
Tot Ion:152 Resp: 1068

Ion Ratio Lower Upper

152 100

151 27.7 17.1 25.7#

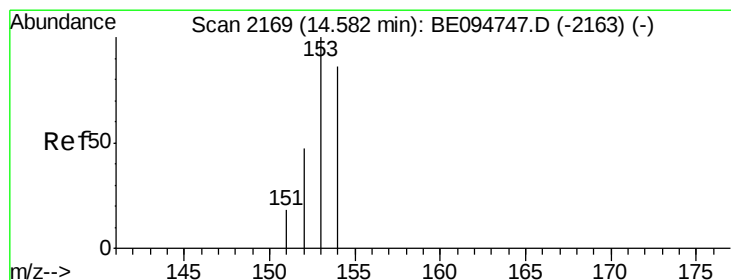
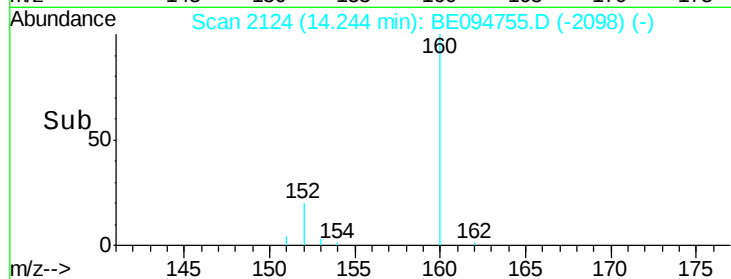
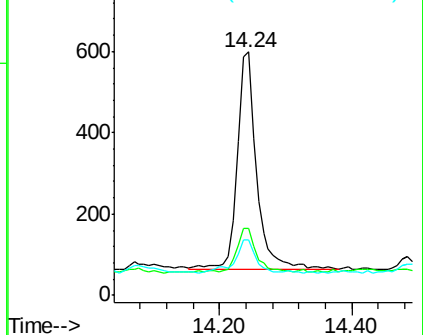
153 22.9 12.8 19.2#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#8

Acenaphthene

Concen: 0.28 ng/ul

RT: 14.58 min Scan# 2169

Delta R.T. 0.00 min

Lab File: BE094755.D

Acq: 6 Nov 2017 16:16

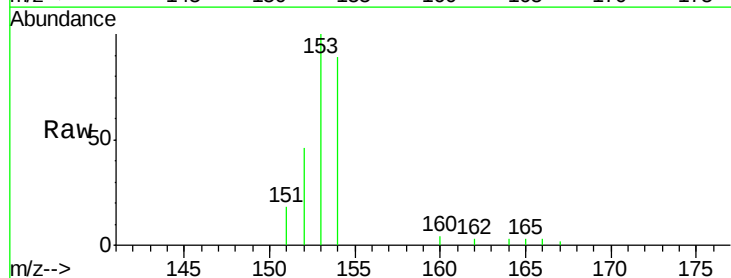
Tgt Ion:153 Resp: 3928

Ion Ratio Lower Upper

153 100

152 45.8 36.0 54.0

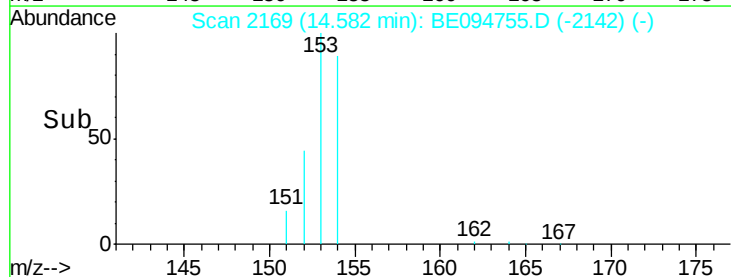
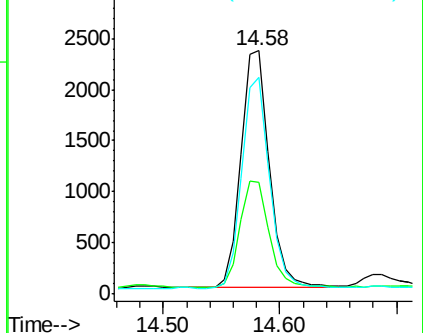
154 88.9 72.0 108.0

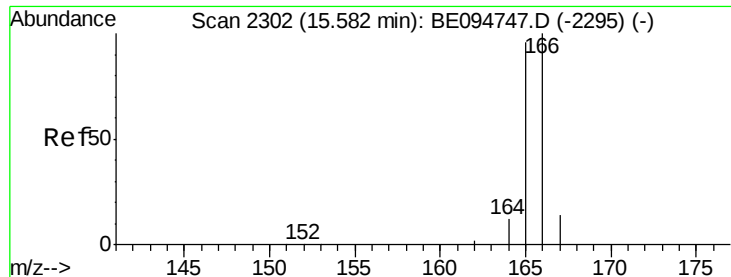


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 0.22 ng/ul

RT: 15.57 min Scan# 2300

Delta R.T. -0.01 min

Lab File: BE094755.D

Acq: 6 Nov 2017 16:16

Instrument :

BNA\_E

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B-78(0.5-1.5)-102517

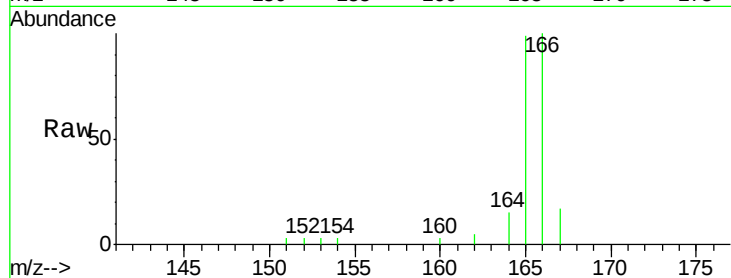
Tot Ion:166 Resp: 3471

Ion Ratio Lower Upper

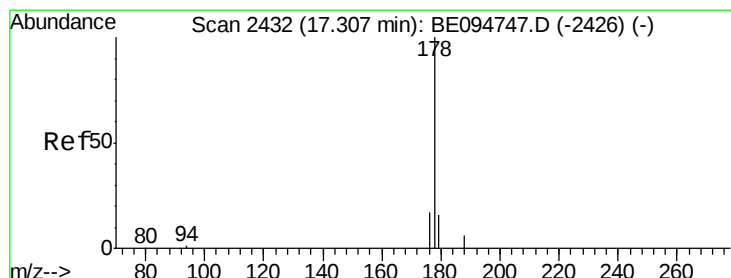
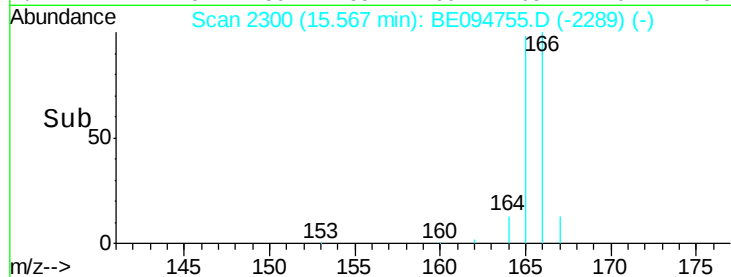
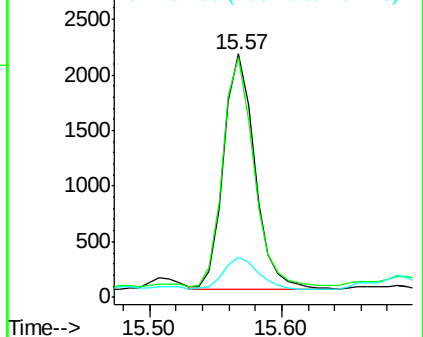
166 100

165 98.7 73.4 110.2

167 16.6 14.6 22.0



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E



#12

Phenanthrene

Concen: 2.64 ng/ul

RT: 17.29 min Scan# 2431

Delta R.T. -0.02 min

Lab File: BE094755.D

Acq: 6 Nov 2017 16:16

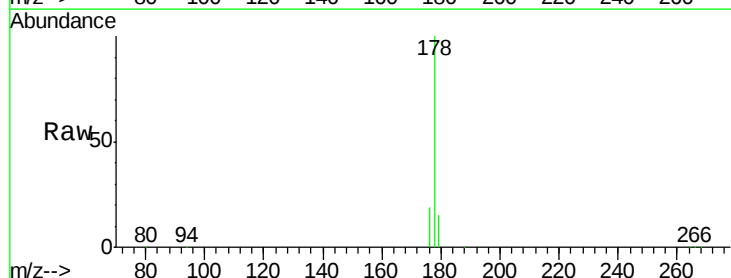
Tgt Ion:178 Resp: 63727

Ion Ratio Lower Upper

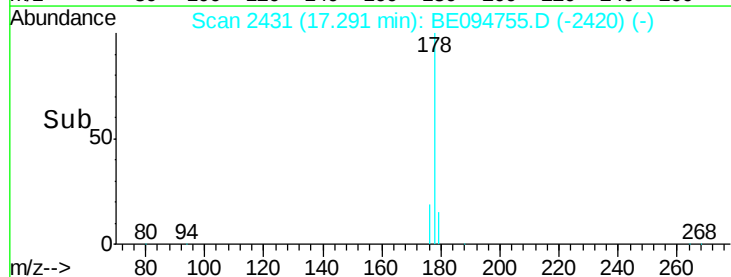
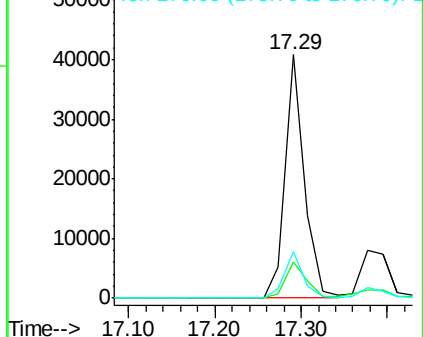
178 100

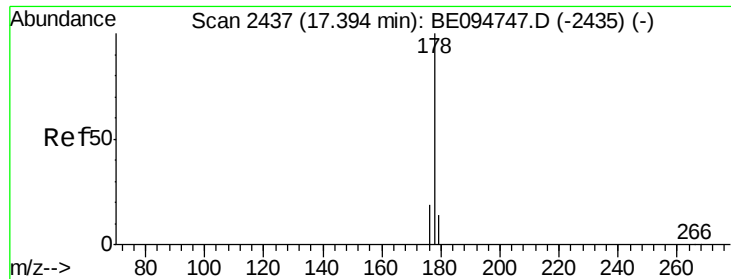
179 14.8 18.4 27.6#

176 18.9 13.6 20.4



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





#13

Anthracene

Concen: 0.75 ng/ul

RT: 17.38 min Scan# 2436

Delta R.T. -0.02 min

Lab File: BE094755.D

Acq: 6 Nov 2017 16:16

Instrument :

BNA\_E

ClientSampleId :

B-78(0.5-1.5)-102517

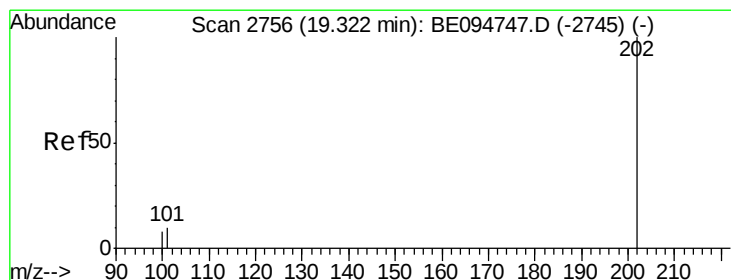
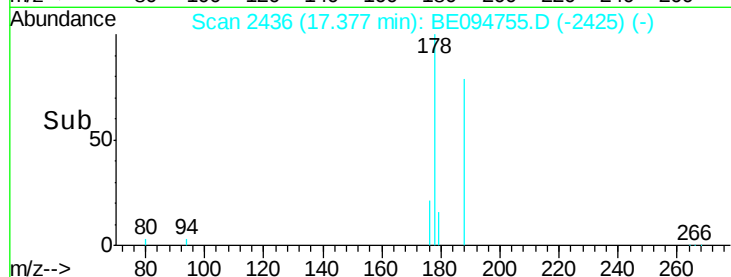
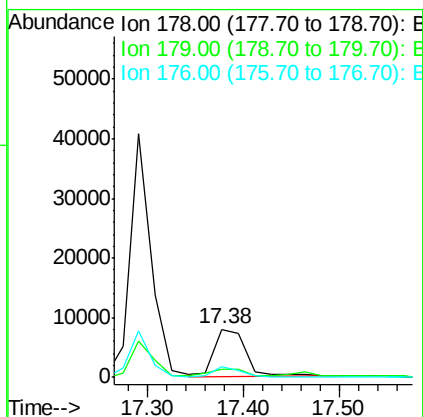
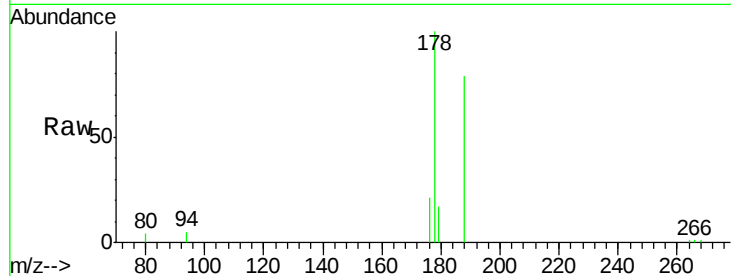
Tot Ion:178 Resp: 17830

Ion Ratio Lower Upper

178 100

179 16.9 18.1 27.1#

176 21.2 14.7 22.1



#15

Fluoranthene

Concen: 4.57 ng/ul

RT: 19.31 min Scan# 2754

Delta R.T. -0.01 min

Lab File: BE094755.D

Acq: 6 Nov 2017 16:16

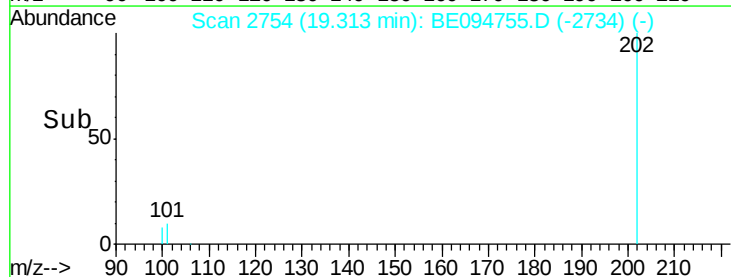
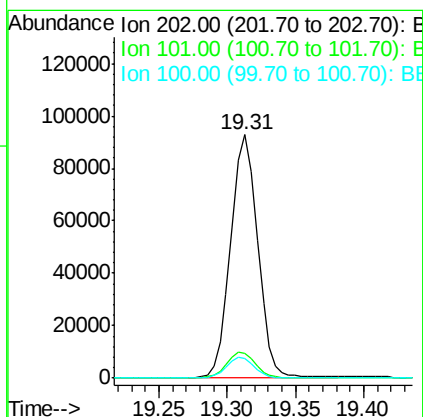
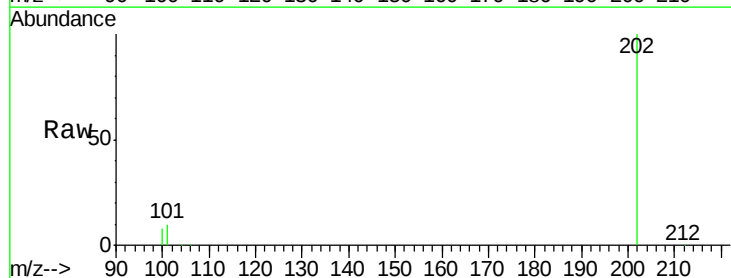
Tgt Ion:202 Resp: 127598

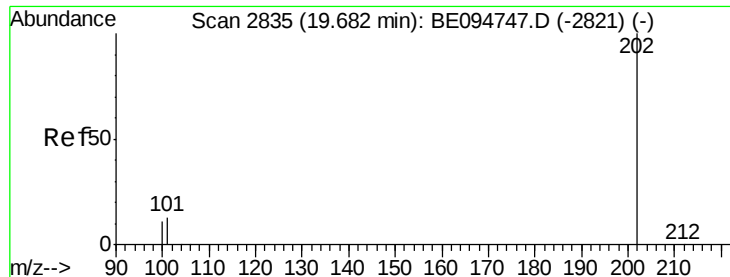
Ion Ratio Lower Upper

202 100

101 10.3 0.0 30.3

100 8.0 0.0 39.5





#17

Pvrene

Concen: 3.77 ng/ul

RT: 19.67 min Scan# 2833

Delta R.T. -0.01 min

Lab File: BE094755.D

Acq: 6 Nov 2017 16:16

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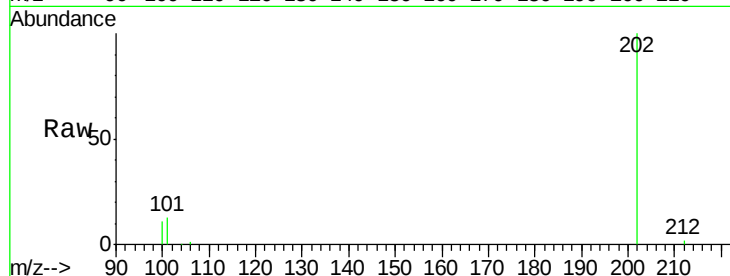
Tot Ion:202 Resp: 108816

Ion Ratio Lower Upper

202 100

101 12.8 18.2 27.4#

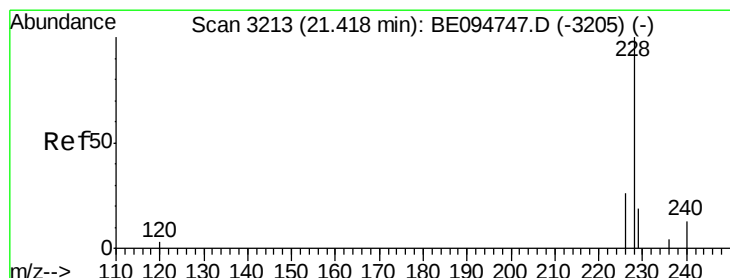
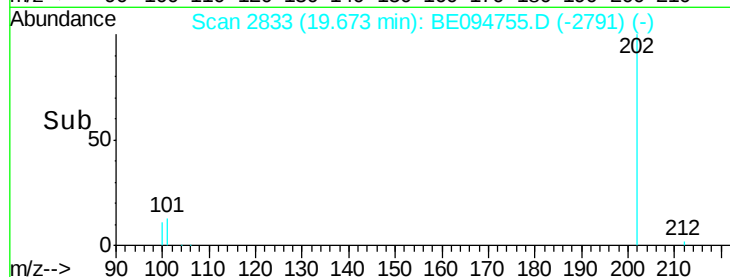
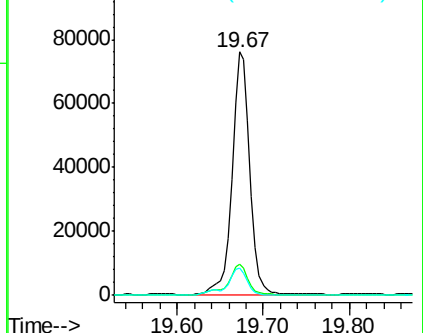
100 11.0 15.6 23.4#



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): E



#18

Benzo(a)anthracene

Concen: 2.63 ng/ul

RT: 21.41 min Scan# 3211

Delta R.T. -0.01 min

Lab File: BE094755.D

Acq: 6 Nov 2017 16:16

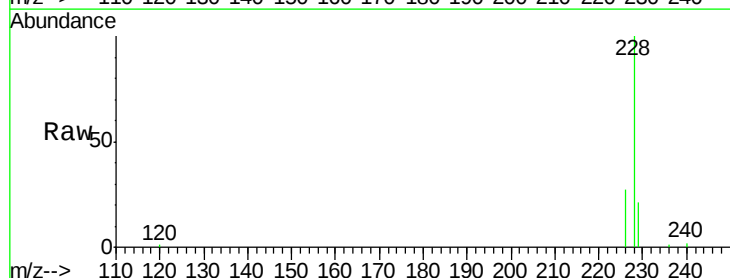
Tgt Ion:228 Resp: 70162

Ion Ratio Lower Upper

228 100

229 21.4 22.8 34.2#

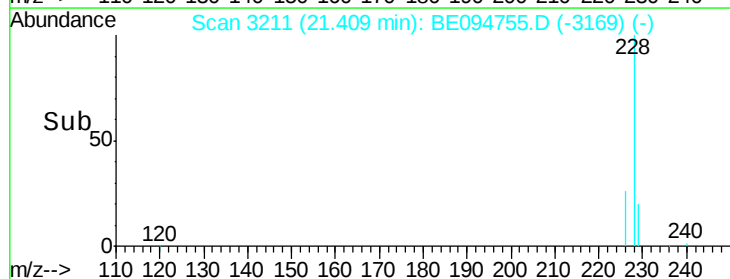
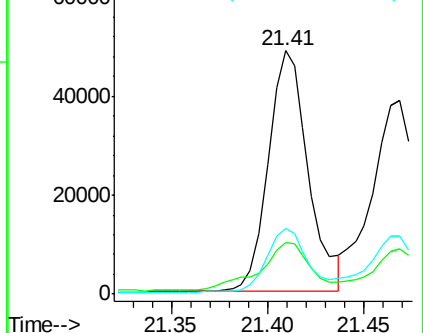
226 26.9 17.0 25.6#

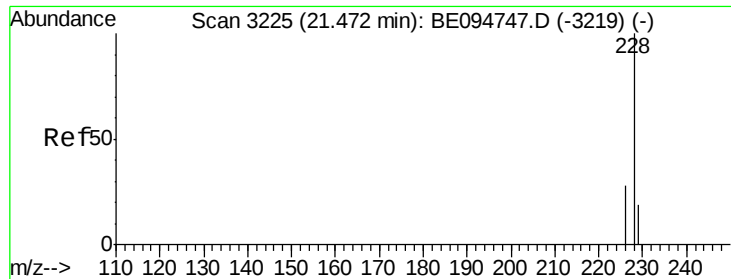


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#19

Chrysene

Concen: 2.22 ng/ul

RT: 21.47 min Scan# 3224

Delta R.T. -0.00 min

Lab File: BE094755.D

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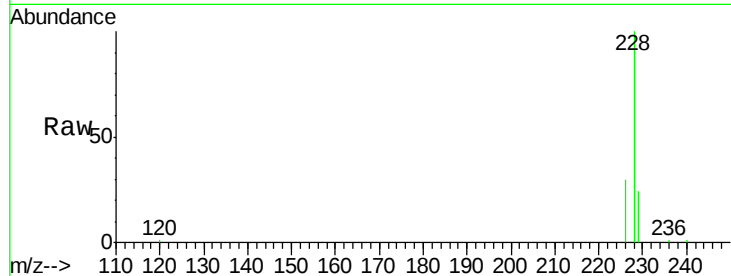
Tot Ion:228 Resp: 61366

Ion Ratio Lower Upper

228 100

226 29.7 23.4 35.0

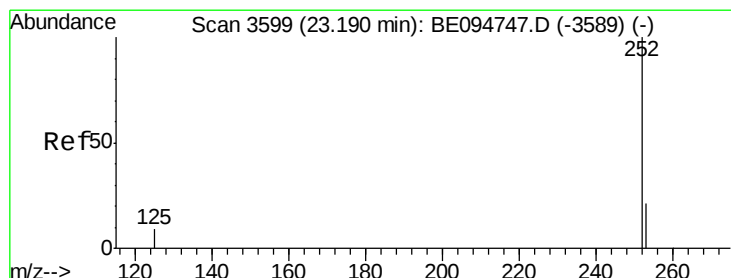
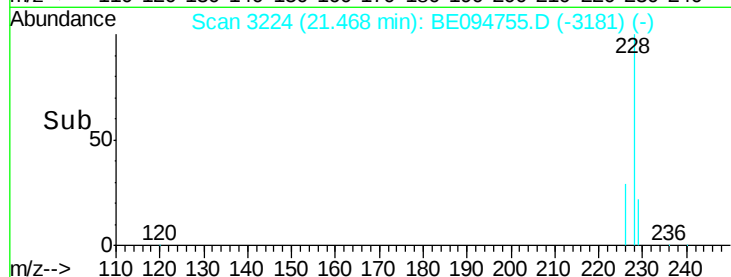
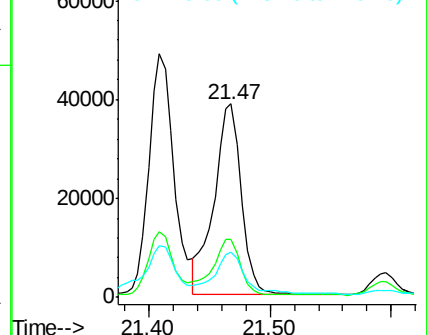
229 23.5 17.7 26.5



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: 4.00 ng/ul

RT: 23.19 min Scan# 3599

Delta R.T. 0.00 min

Lab File: BE094755.D

Acq: 6 Nov 2017 16:16

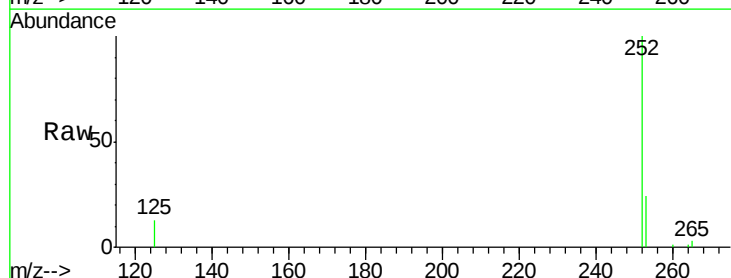
Tgt Ion:252 Resp: 104676

Ion Ratio Lower Upper

252 100

253 24.2 0.0 64.2

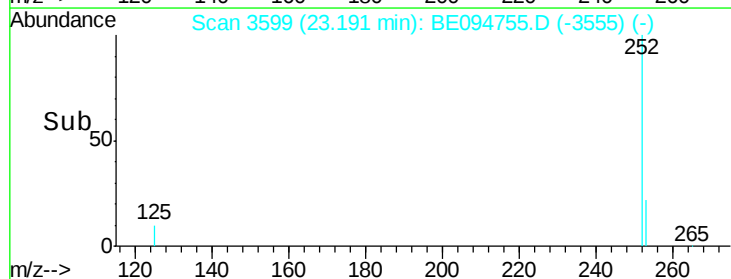
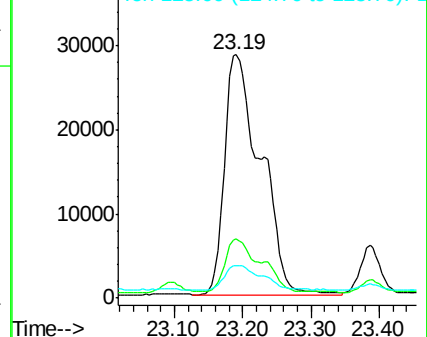
125 13.3 0.0 35.0

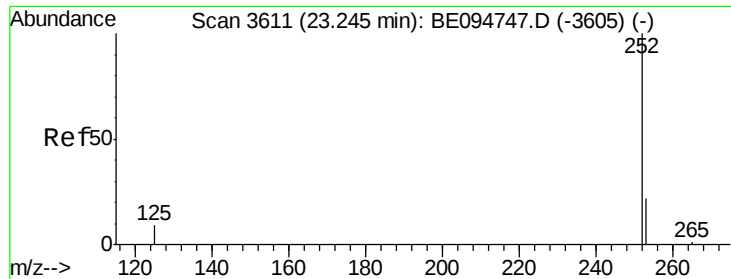


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#22

Benzo(k)fluoranthene

Concen: 3.73 ng/ul

RT: 23.19 min Scan# 3599

Delta R.T. -0.05 min

Lab File: BE094755.D

Acq: 6 Nov 2017 16:16

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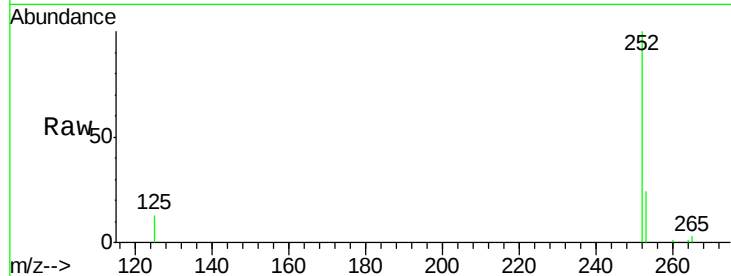
Tot Ion:252 Resp: 104676

Ion Ratio Lower Upper

252 100

253 24.2 24.5 36.7#

125 13.3 13.7 20.5#

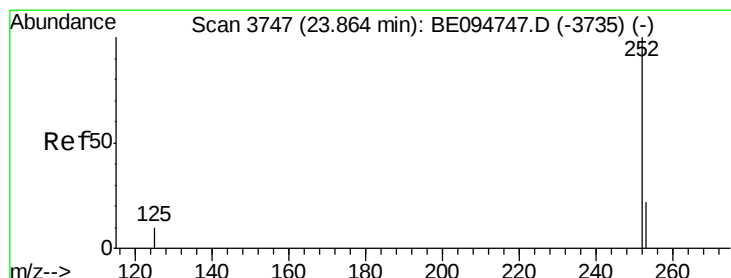
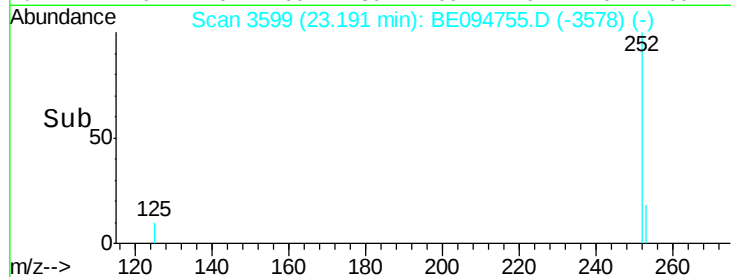
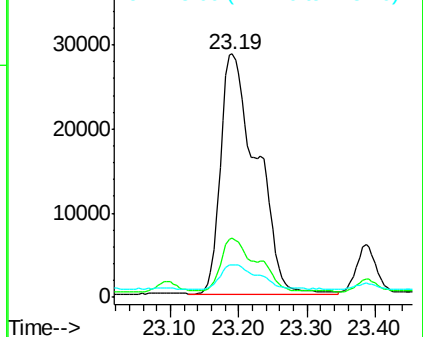


Abundance

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



#23

Benzo(a)pyrene

Concen: 2.05 ng/ul

RT: 23.86 min Scan# 3745

Delta R.T. -0.01 min

Lab File: BE094755.D

Acq: 6 Nov 2017 16:16

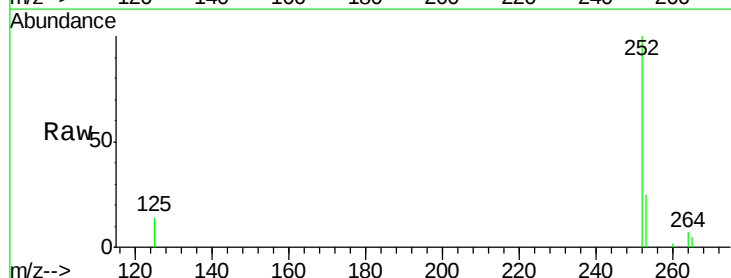
Tgt Ion:252 Resp: 53602

Ion Ratio Lower Upper

252 100

253 24.6 28.5 42.7#

125 14.0 18.1 27.1#

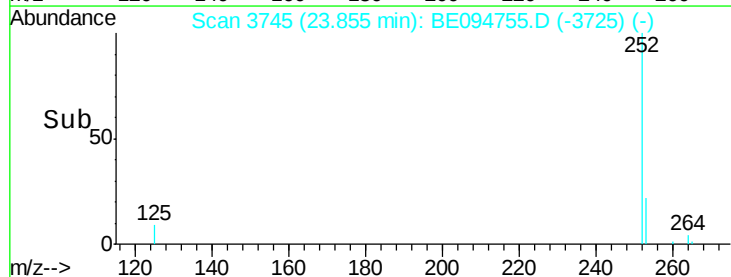
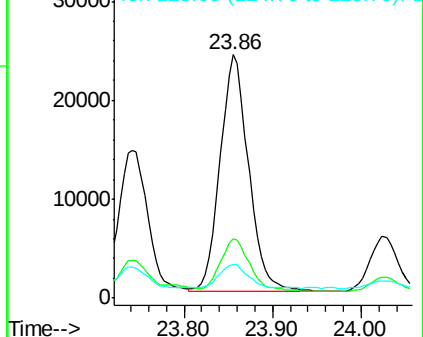


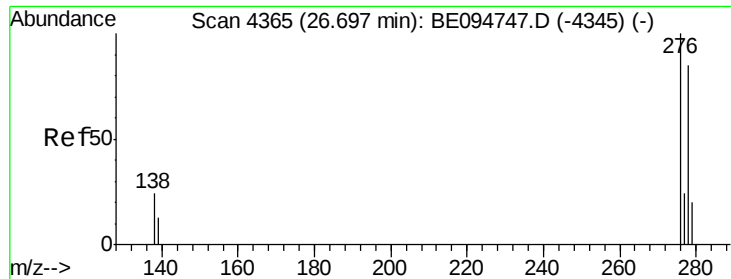
Abundance

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





#24

Indeno(1,2,3-cd)pyrene

Concen: 1.01 ng/ul

RT: 26.69 min Scan# 4363

Delta R.T. -0.01 min

Lab File: BE094755.D

Acq: 6 Nov 2017 16:16

Instrument :

BNA\_E

ClientSampleId :

B-78(0.5-1.5)-102517

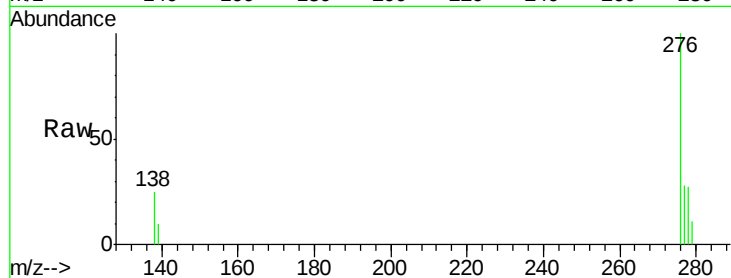
Tot Ion:276 Resp: 27391

Ion Ratio Lower Upper

276 100

138 20.3 28.0 42.0#

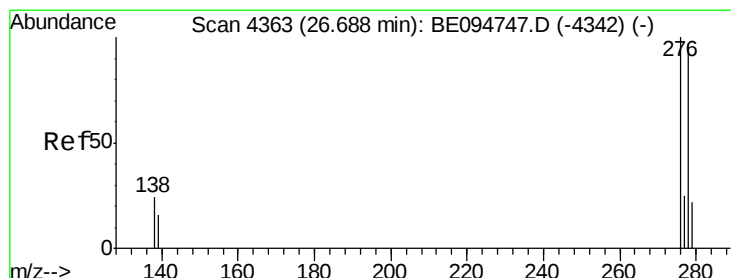
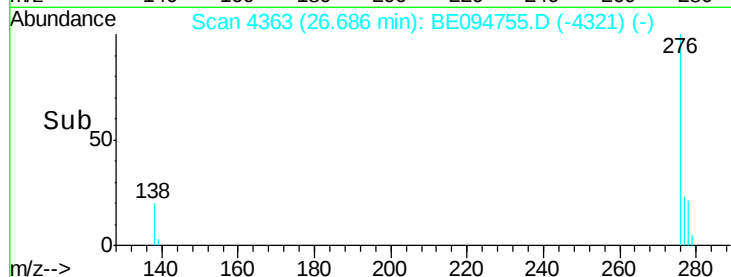
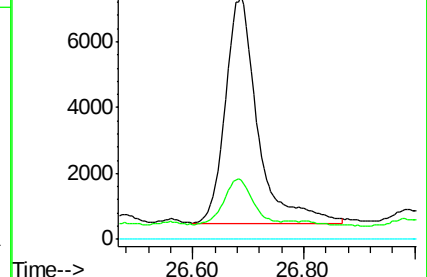
227 0.0 8.0 12.0#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E



#25

Dibenzo(a,h)anthracene

Concen: 0.30 ng/ul

RT: 26.67 min Scan# 4360

Delta R.T. -0.02 min

Lab File: BE094755.D

Acq: 6 Nov 2017 16:16

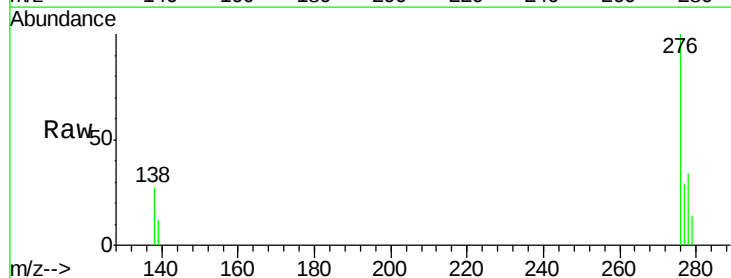
Tgt Ion:278 Resp: 6810

Ion Ratio Lower Upper

278 100

139 34.8 17.4 26.0#

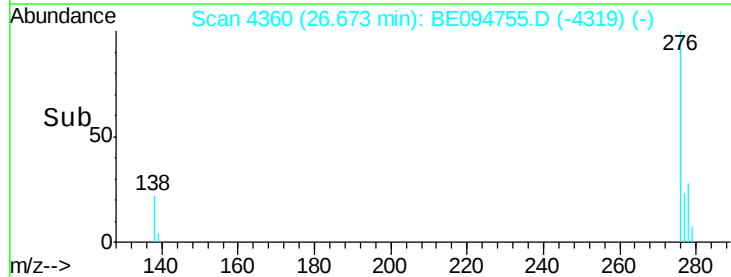
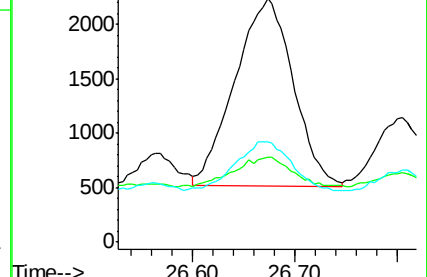
279 40.9 25.9 38.9#

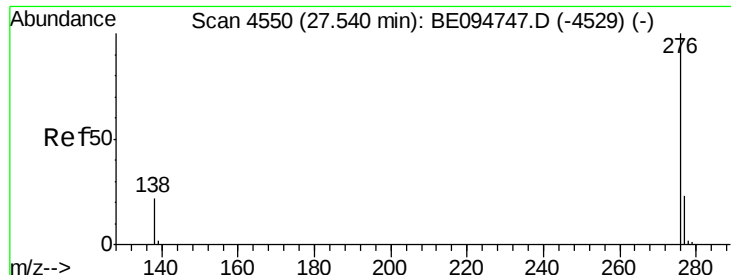


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#26

Benzo(a,h,i)perylene

Concen: 0.93 ng/ul

RT: 27.53 min Scan# 4548

Delta R.T. -0.01 min

Lab File: BE094755.D

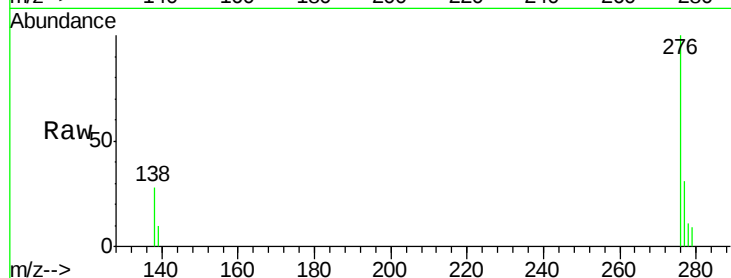
Acq: 6 Nov 2017 16:16

Instrument :

BNA\_E

ClientSampleId :

B-78(0.5-1.5)-102517



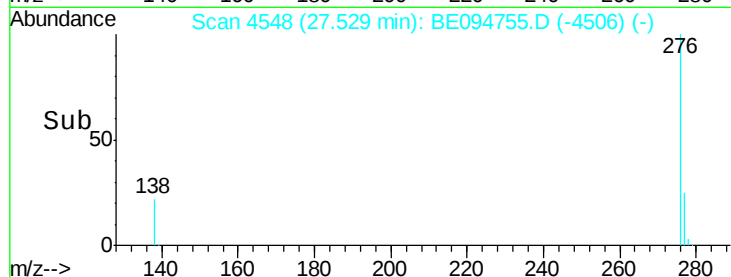
Tot Ion: 276 Resp: 20223

Ion Ratio Lower Upper

276 100

138 28.0 21.8 32.8

277 31.0 20.5 30.7#



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

