

Data File : BE093319.D  
Acq On : 21 Jun 2017 17:21  
Operator : SJ/JU  
Sample : I3627-16DL 5X  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
F5A89DL

Quant Time: Jun 22 02:12:29 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE060717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 22 02:10:17 2017  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.74  | 152  | 1698     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.51 | 136  | 9367     | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.36 | 164  | 5934     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.10 | 188  | 14456    | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.26 | 240  | 14415    | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.66 | 264  | 12976    | 0.40 | ng/ul | 0.00     |

|                             |       |     |      |      |       |      |
|-----------------------------|-------|-----|------|------|-------|------|
| System Monitoring Compounds |       |     |      |      |       |      |
| 4) 2-Methylnaphthalene-d10  | 12.11 | 152 | 733  | 0.05 | ng/ul | 0.00 |
| 14) Fluoranthene-d10        | 19.12 | 212 | 1864 | 0.05 | ng/ul | 0.00 |

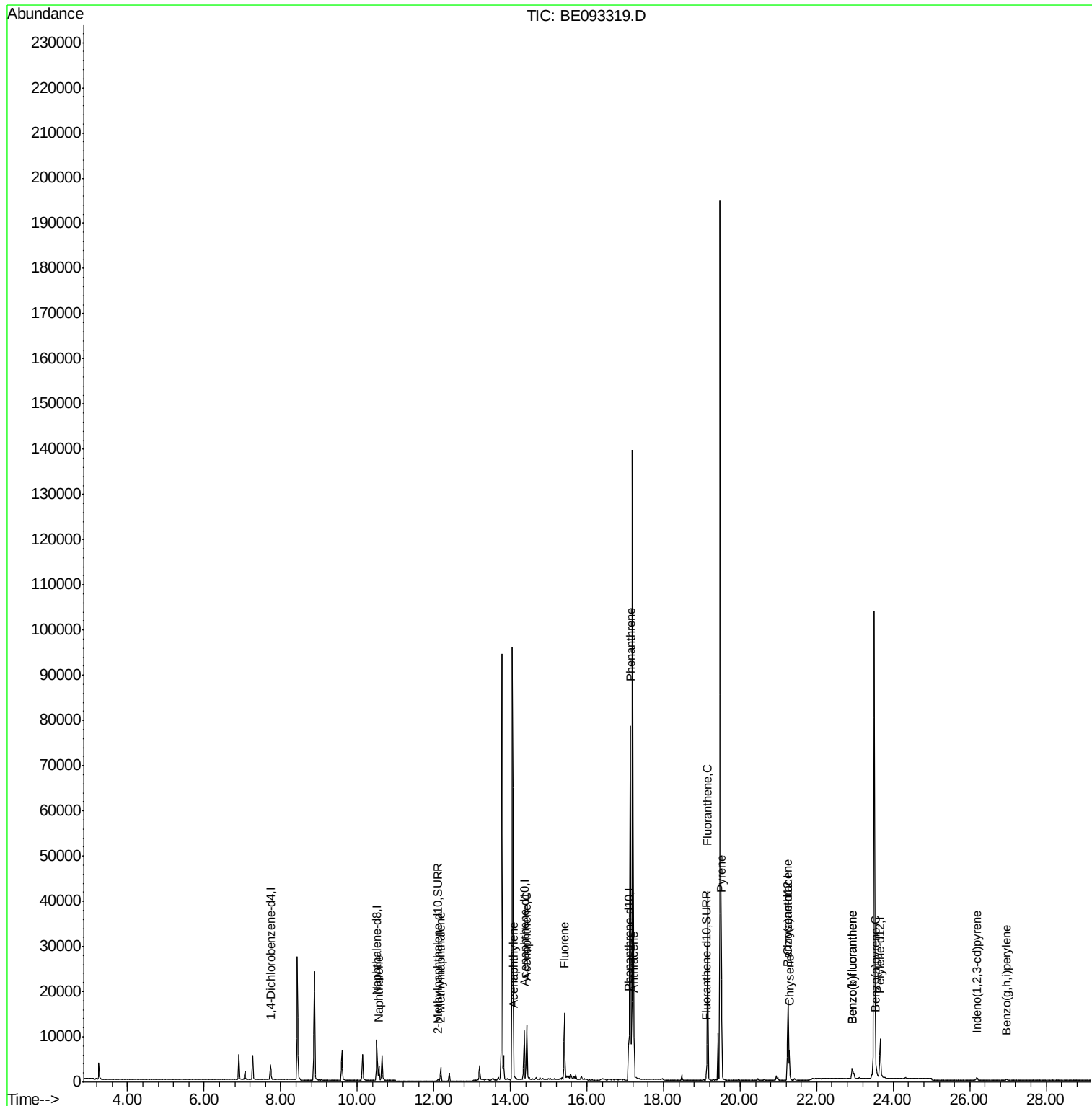
|                            |       |     |       |        |        |    |
|----------------------------|-------|-----|-------|--------|--------|----|
| Target Compounds           |       |     |       | Qvalue |        |    |
| 3) Naphthalene             | 10.56 | 128 | 4307  | 0.19   | ng/ul# | 94 |
| 5) 2-Methylnaphthalene     | 12.18 | 142 | 2588  | 0.16   | ng/ul  | 98 |
| 7) Acenaphthylene          | 14.09 | 152 | 840   | 0.03   | ng/ul# | 77 |
| 8) Acenaphthene            | 14.42 | 153 | 7071  | 0.34   | ng/ul  | 98 |
| 9) Fluorene                | 15.41 | 166 | 9058  | 0.38   | ng/ul  | 91 |
| 12) Phenanthrene           | 17.14 | 178 | 84311 | 2.12   | ng/ul# | 91 |
| 13) Anthracene             | 17.22 | 178 | 8113  | 0.23   | ng/ul# | 92 |
| 15) Fluoranthene           | 19.15 | 202 | 45621 | 0.94   | ng/ul  | 83 |
| 17) Pyrene                 | 19.51 | 202 | 29380 | 0.69   | ng/ul# | 84 |
| 18) Benzo(a)anthracene     | 21.24 | 228 | 7261  | 0.19   | ng/ul# | 86 |
| 19) Chrysene               | 21.29 | 228 | 6474  | 0.16   | ng/ul  | 97 |
| 21) Benzo(b)fluoranthene   | 22.93 | 252 | 5327  | 0.14   | ng/ul  | 91 |
| 22) Benzo(k)fluoranthene   | 22.93 | 252 | 5327  | 0.13   | ng/ul# | 92 |
| 23) Benzo(a)pyrene         | 23.55 | 252 | 2018  | 0.05   | ng/ul  | 91 |
| 24) Indeno(1,2,3-cd)pyrene | 26.17 | 276 | 869   | 0.02   | ng/ul# | 88 |
| 26) Benzo(g,h,i)perylene   | 26.96 | 276 | 675   | 0.02   | ng/ul# | 64 |

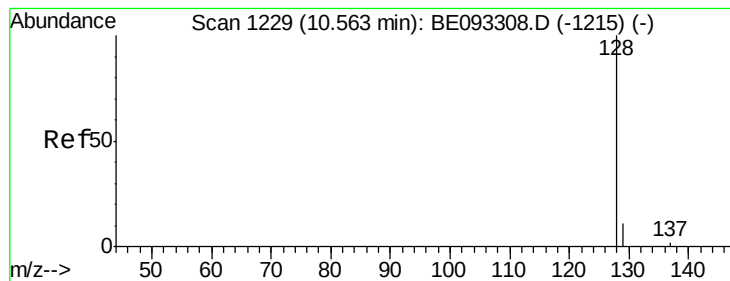
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Naphthalene

Concen: 0.19 ng/ul

RT: 10.56 min Scan# 1229

Delta R.T. -0.00 min

Lab File: BE093319.D

Acq: 21 Jun 2017 17:21

Instrument :

BNA\_E

ClientSampleId :

F5A89DL

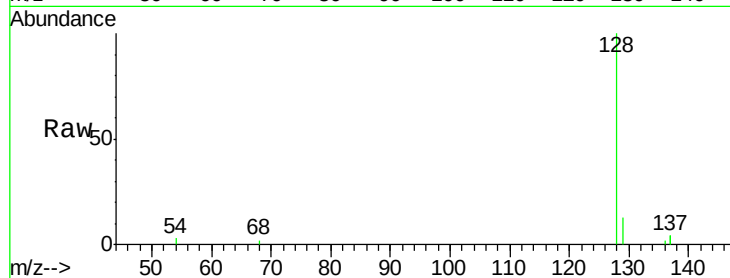
Tgt Ion:128 Resp: 4307

Ion Ratio Lower Upper

128 100

129 12.7 11.3 16.9

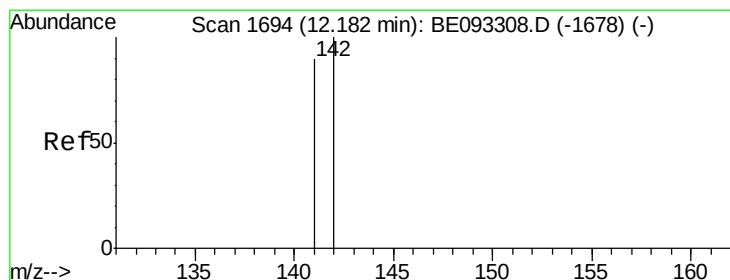
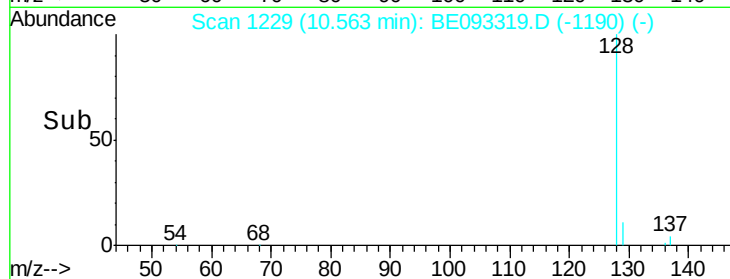
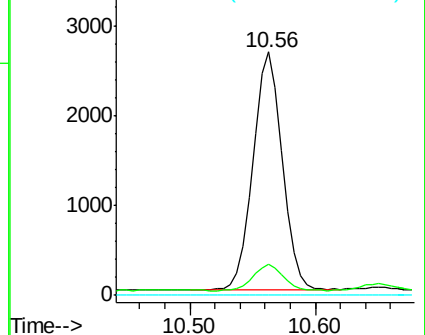
127 0.0 4.0 6.0#



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: 0.16 ng/ul

RT: 12.18 min Scan# 1693

Delta R.T. -0.00 min

Lab File: BE093319.D

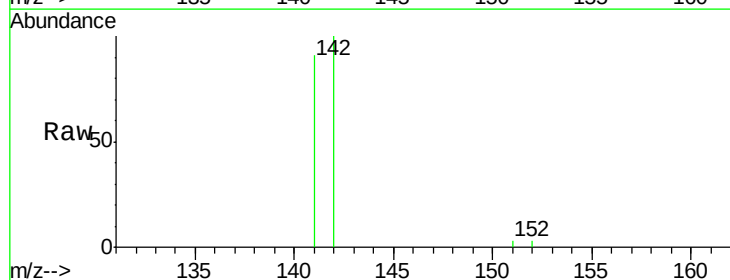
Acq: 21 Jun 2017 17:21

Tgt Ion:142 Resp: 2588

Ion Ratio Lower Upper

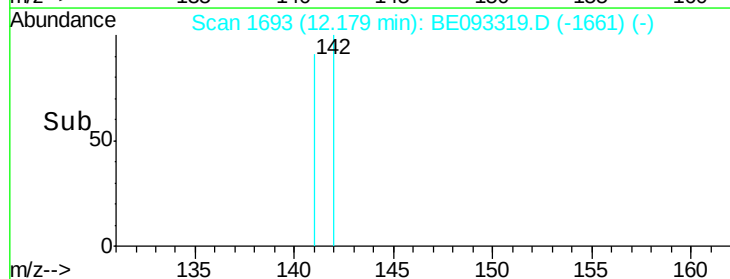
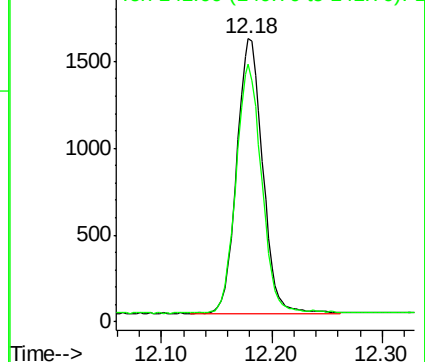
142 100

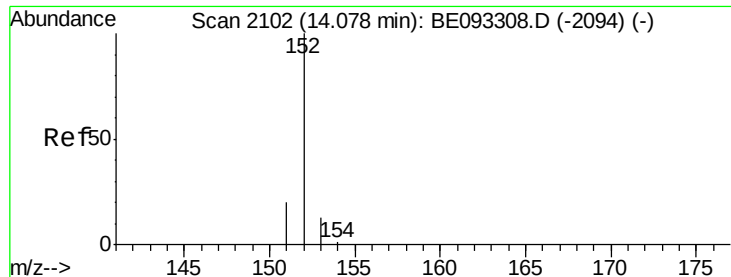
141 88.7 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.03 ng/ul

RT: 14.09 min Scan# 2103

Delta R.T. 0.01 min

Lab File: BE093319.D

Acq: 21 Jun 2017 17:21

Instrument :

BNA\_E

ClientSampleId :

F5A89DL

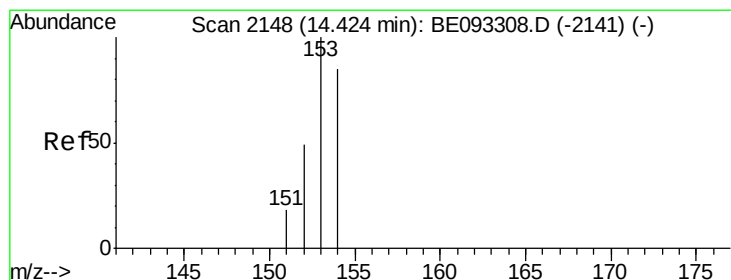
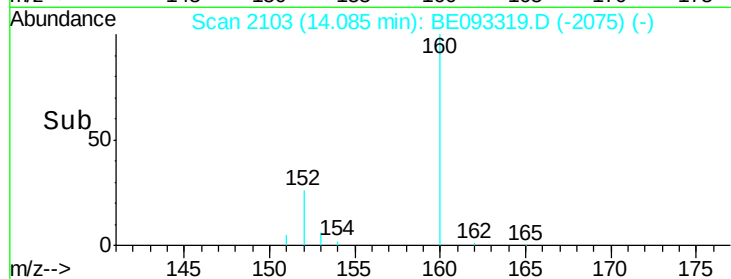
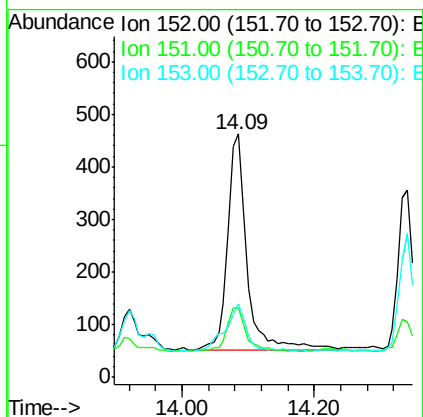
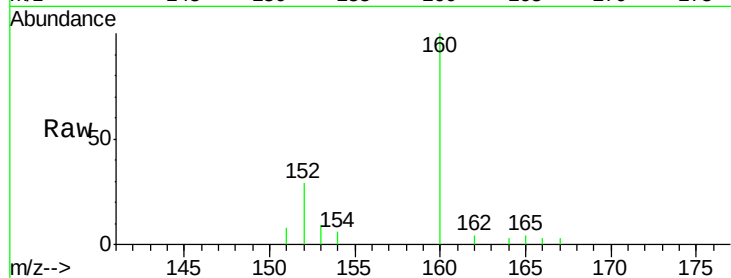
Tgt Ion:152 Resp: 840

Ion Ratio Lower Upper

152 100

151 28.7 17.1 25.7#

153 30.0 12.8 19.2#



#8

Acenaphthene

Concen: 0.34 ng/ul

RT: 14.42 min Scan# 2148

Delta R.T. -0.00 min

Lab File: BE093319.D

Acq: 21 Jun 2017 17:21

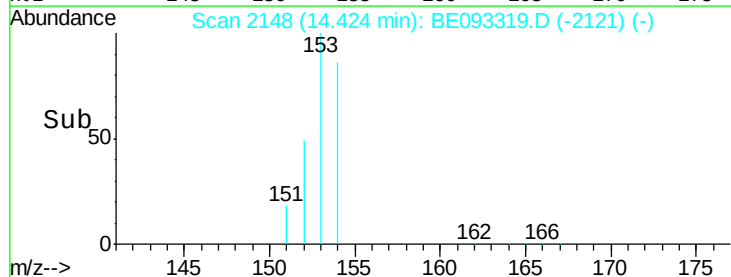
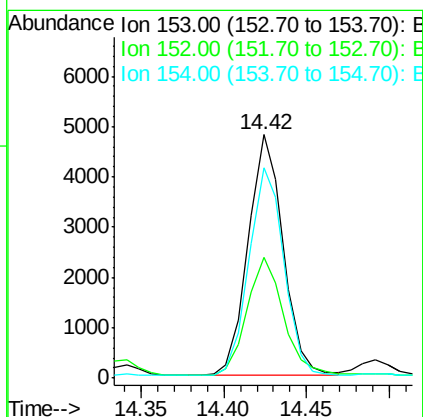
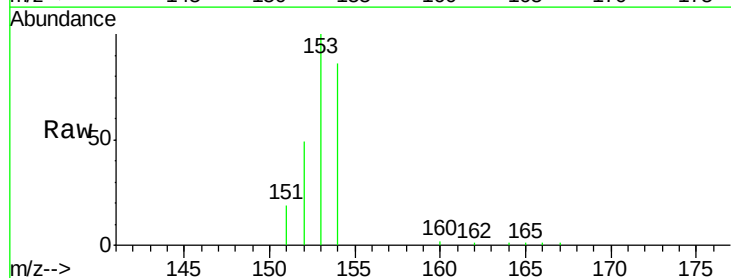
Tgt Ion:153 Resp: 7071

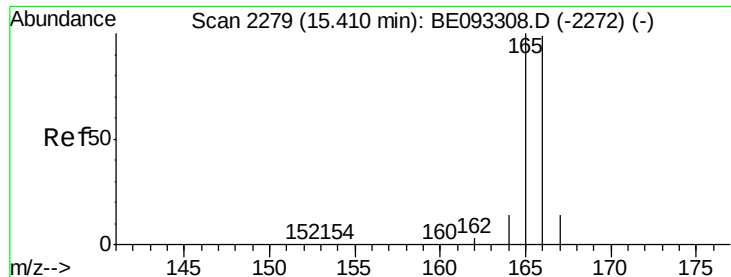
Ion Ratio Lower Upper

153 100

152 49.5 40.3 60.5

154 86.4 71.4 107.2





#9

Fluorene

Concen: 0.38 ng/ul

RT: 15.41 min Scan# 2279

Delta R.T. -0.00 min

Lab File: BE093319.D

Acq: 21 Jun 2017 17:21

Instrument :

BNA\_E

ClientSampleId :

F5A89DL

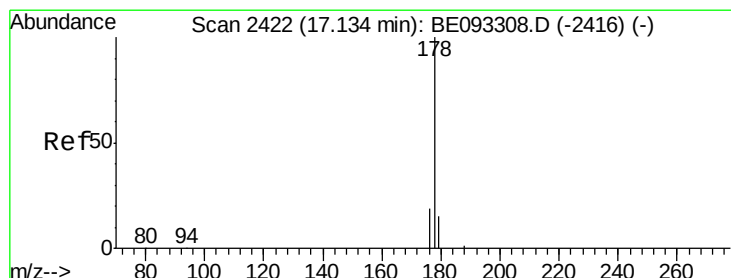
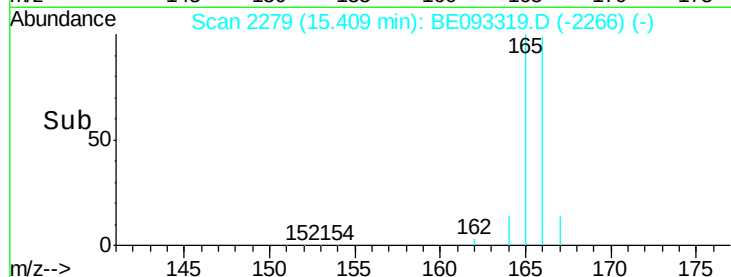
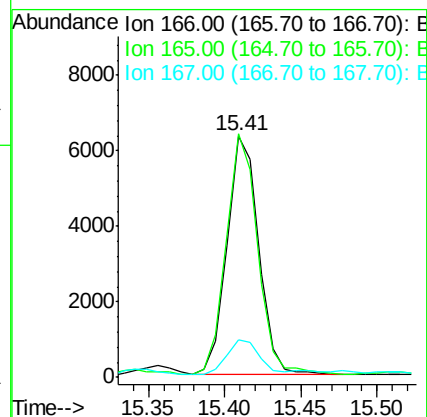
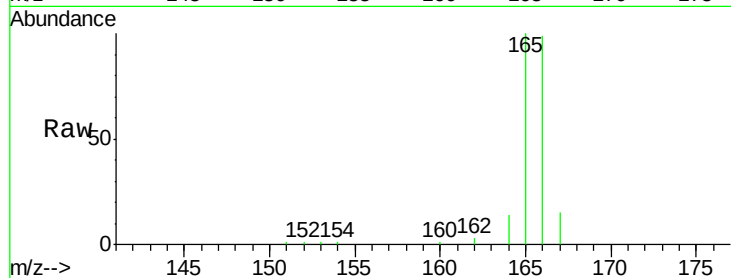
Tgt Ion:166 Resp: 9058

Ion Ratio Lower Upper

166 100

165 101.0 73.4 110.2

167 15.5 14.6 22.0



#12

Phenanthrene

Concen: 2.12 ng/ul

RT: 17.14 min Scan# 2422

Delta R.T. 0.00 min

Lab File: BE093319.D

Acq: 21 Jun 2017 17:21

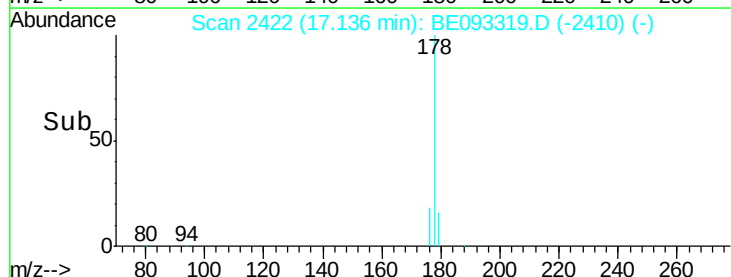
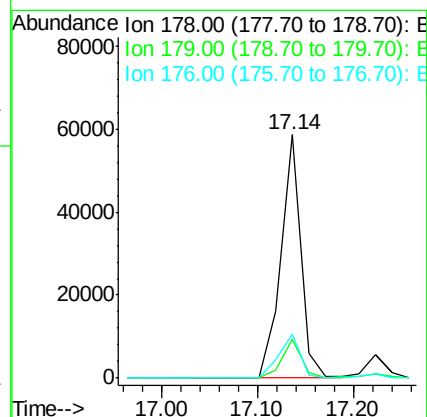
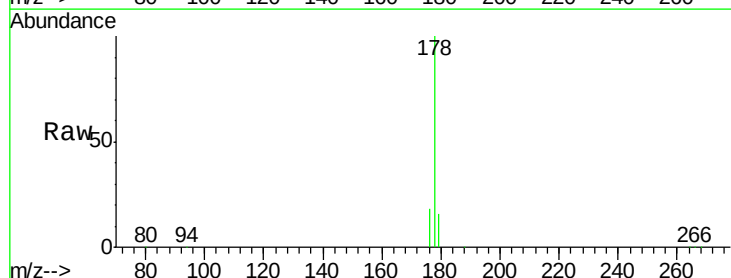
Tgt Ion:178 Resp: 84311

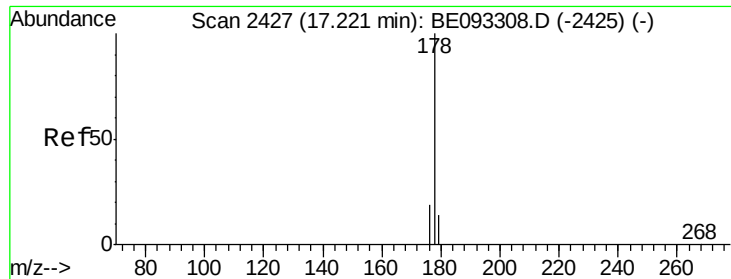
Ion Ratio Lower Upper

178 100

179 15.9 18.4 27.6#

176 17.8 13.6 20.4





#13

Anthracene

Concen: 0.23 ng/ul

RT: 17.22 min Scan# 2427

Delta R.T. 0.00 min

Lab File: BE093319.D

Acq: 21 Jun 2017 17:21

Instrument :

BNA\_E

ClientSampleId :

F5A89DL

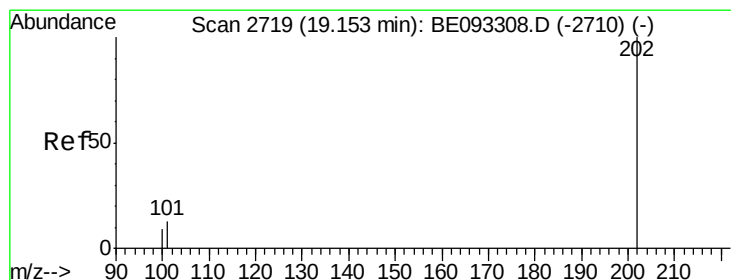
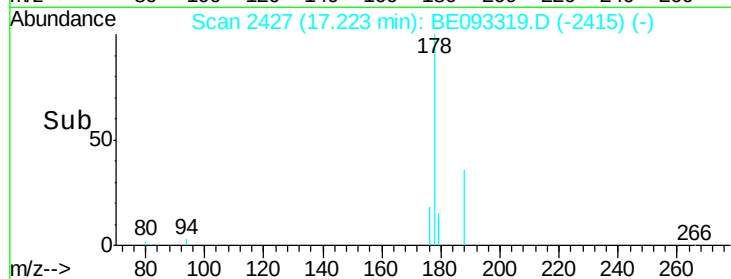
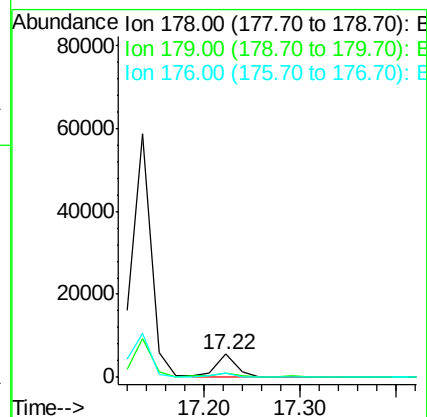
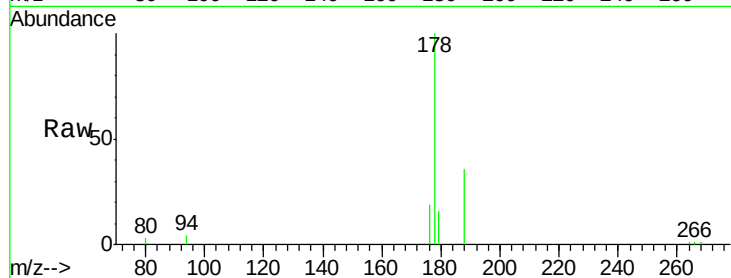
Tgt Ion:178 Resp: 8113

Ion Ratio Lower Upper

178 100

179 16.4 18.1 27.1#

176 18.9 14.7 22.1



#15

Fluoranthene

Concen: 0.94 ng/ul

RT: 19.15 min Scan# 2718

Delta R.T. -0.00 min

Lab File: BE093319.D

Acq: 21 Jun 2017 17:21

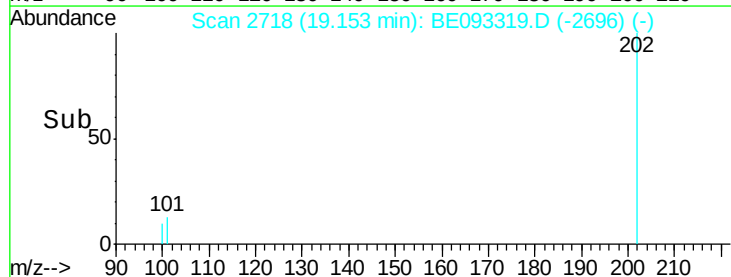
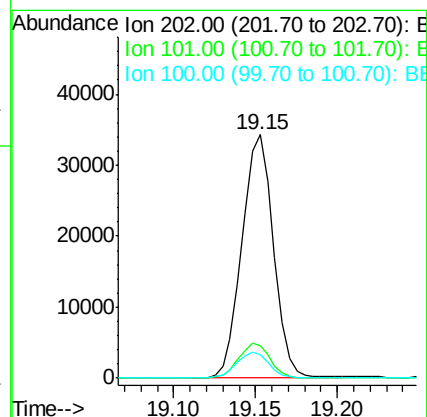
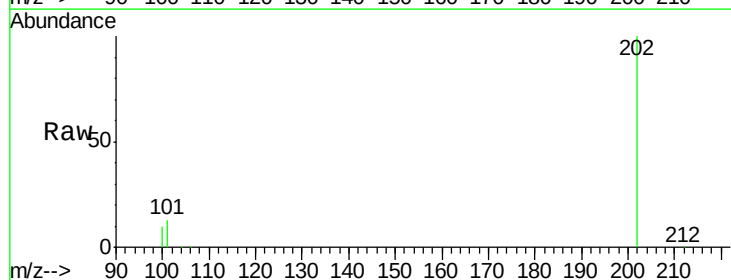
Tgt Ion:202 Resp: 45621

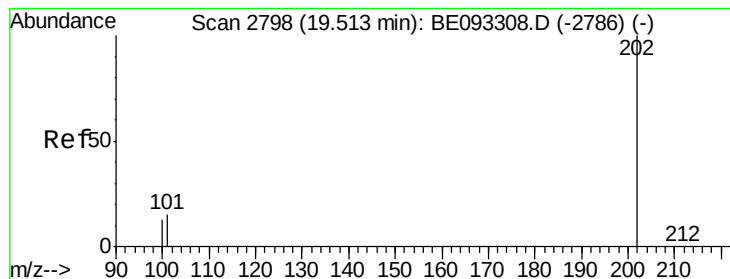
Ion Ratio Lower Upper

202 100

101 13.1 0.0 30.3

100 9.7 0.0 39.5





#17

Pyrene

Concen: 0.69 ng/ul

RT: 19.51 min Scan# 2797

Delta R.T. -0.00 min

Lab File: BE093319.D

Acq: 21 Jun 2017 17:21

Instrument :

BNA\_E

ClientSampleId :

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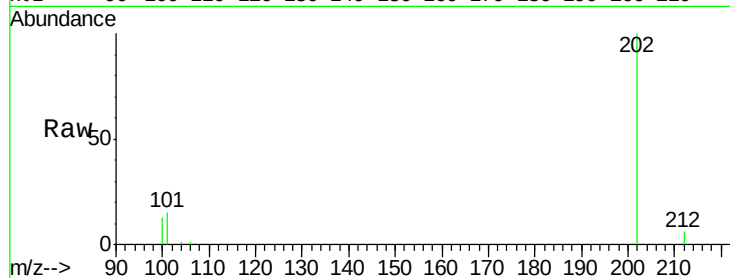
Tgt Ion:202 Resp: 29380

Ion Ratio Lower Upper

202 100

101 15.2 18.2 27.4#

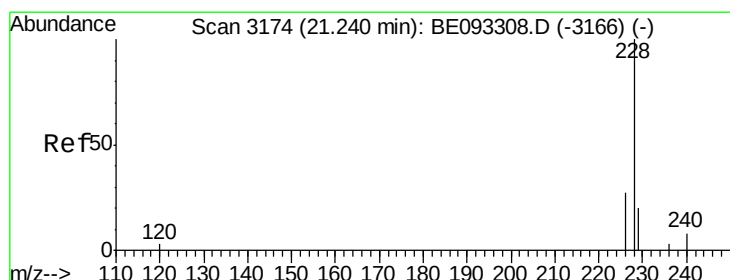
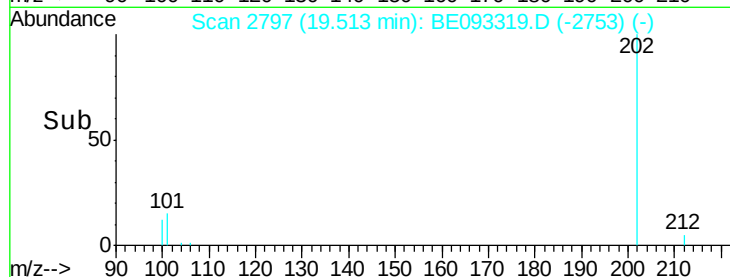
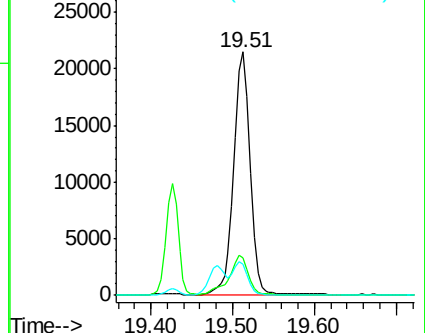
100 12.5 15.6 23.4#



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: 0.19 ng/ul

RT: 21.24 min Scan# 3173

Delta R.T. -0.00 min

Lab File: BE093319.D

Acq: 21 Jun 2017 17:21

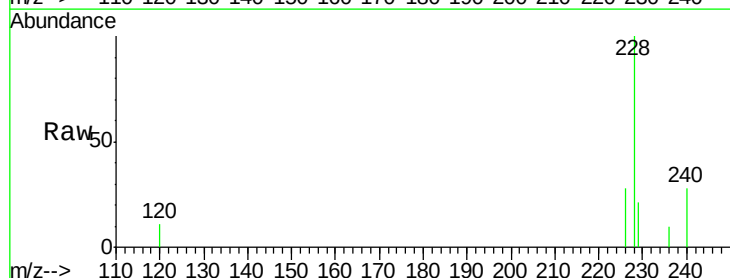
Tgt Ion:228 Resp: 7261

Ion Ratio Lower Upper

228 100

229 21.4 22.8 34.2#

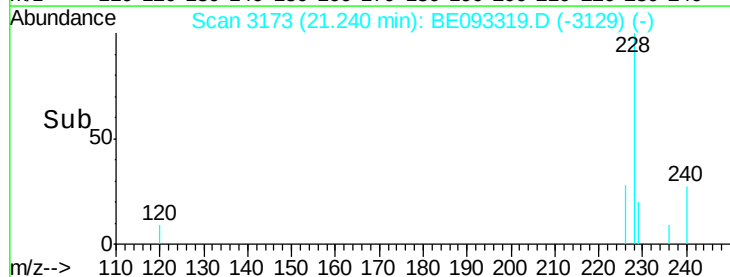
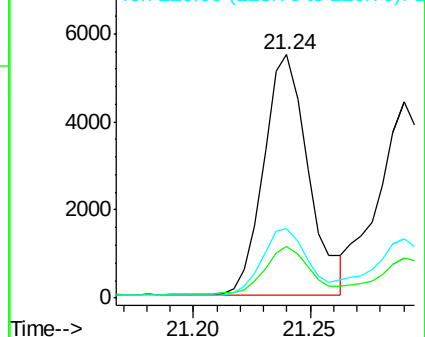
226 28.5 17.0 25.6#

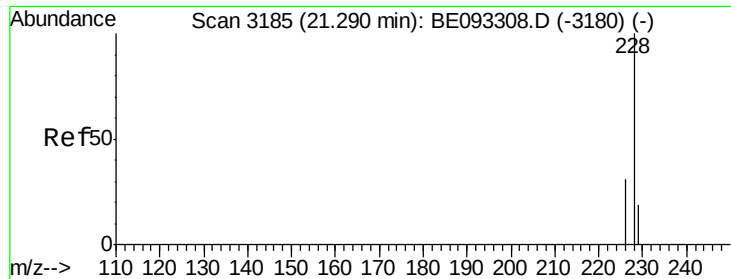


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#19

Chrysene

Concen: 0.16 ng/ul

RT: 21.29 min Scan# 3184

Delta R.T. -0.00 min

Lab File: BE093319.D

Acq: 21 Jun 2017 17:21

Instrument :

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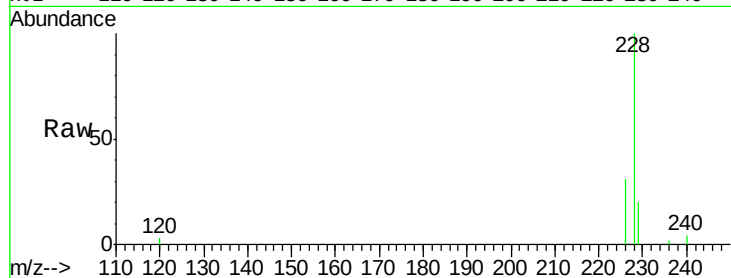
Tgt Ion:228 Resp: 6474

Ion Ratio Lower Upper

228 100

226 30.5 23.4 35.0

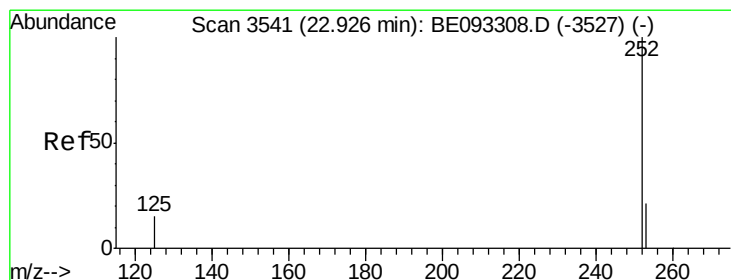
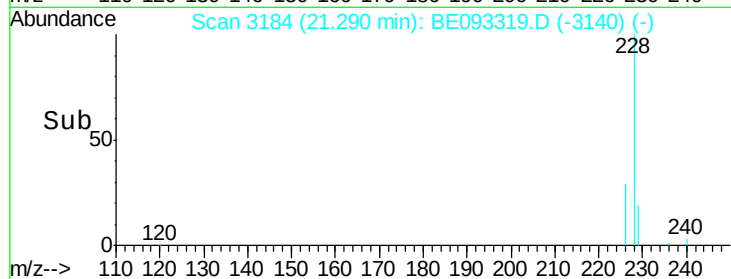
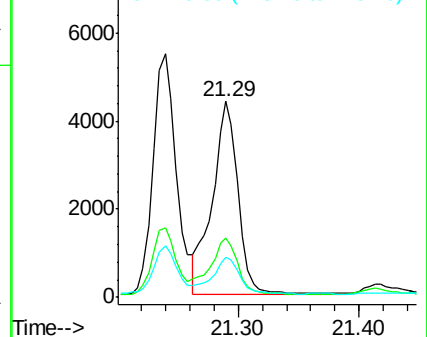
229 20.2 17.7 26.5



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: 0.14 ng/ul

RT: 22.93 min Scan# 3540

Delta R.T. -0.00 min

Lab File: BE093319.D

Acq: 21 Jun 2017 17:21

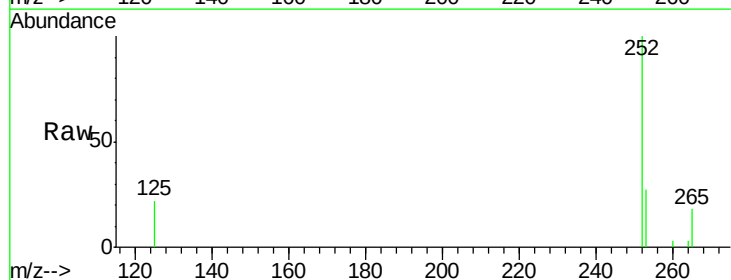
Tgt Ion:252 Resp: 5327

Ion Ratio Lower Upper

252 100

253 27.4 0.0 64.2

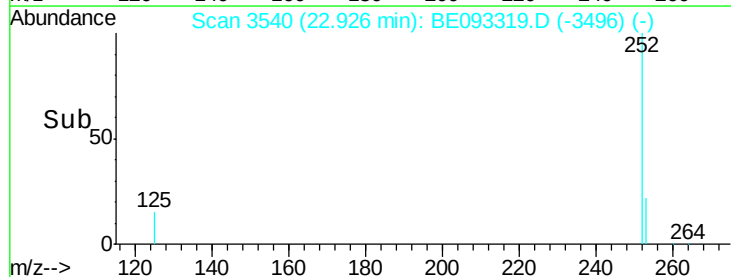
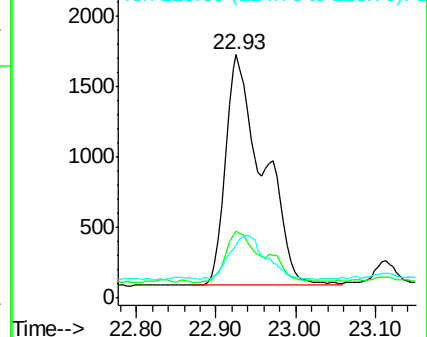
125 22.0 0.0 35.0



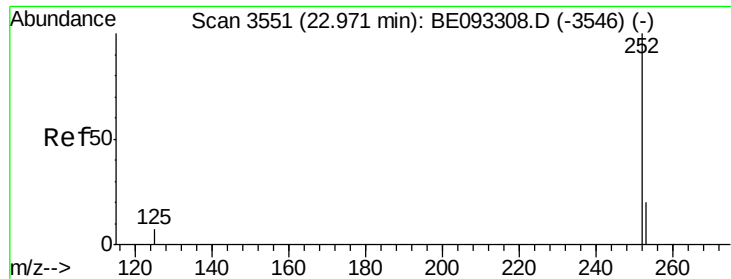
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E







#22

Benzo(k)fluoranthene

Concen: 0.13 ng/ul

RT: 22.93 min Scan# 3540

Delta R.T. -0.05 min

Lab File: BE093319.D

Acq: 21 Jun 2017 17:21

Instrument :

BNA\_E

ClientSampleId :

F5A89DL

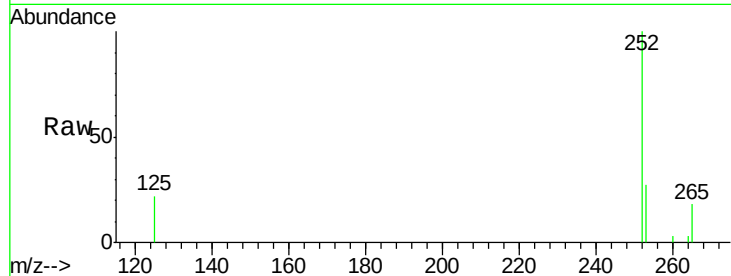
Tgt Ion:252 Resp: 5327

Ion Ratio Lower Upper

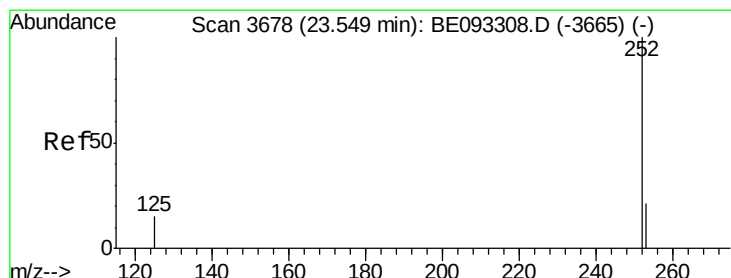
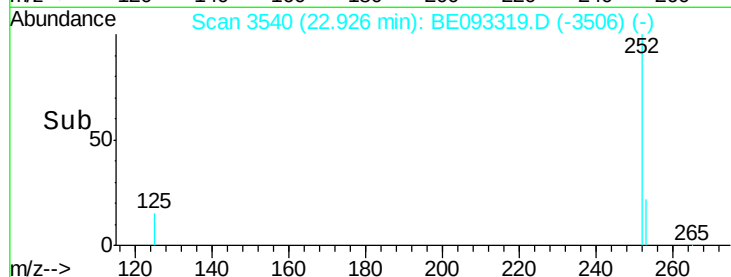
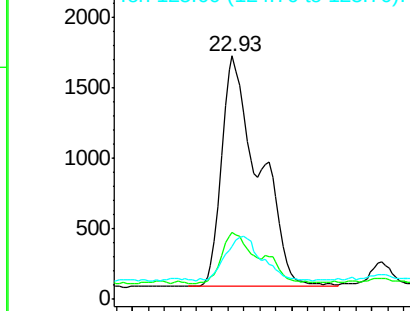
252 100

253 27.4 24.5 36.7

125 22.0 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: 0.05 ng/ul

RT: 23.55 min Scan# 3677

Delta R.T. -0.00 min

Lab File: BE093319.D

Acq: 21 Jun 2017 17:21

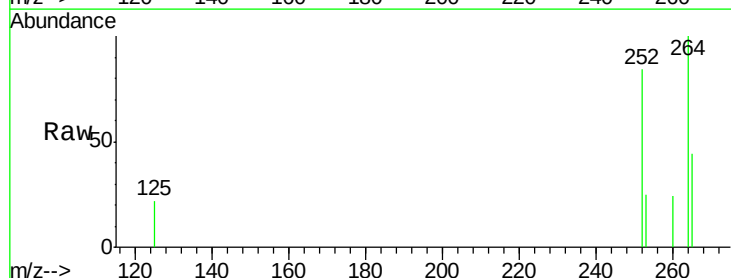
Tgt Ion:252 Resp: 2018

Ion Ratio Lower Upper

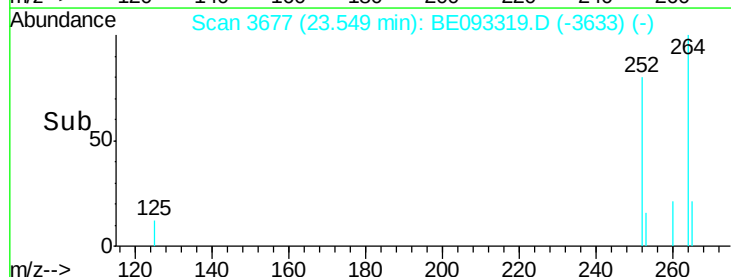
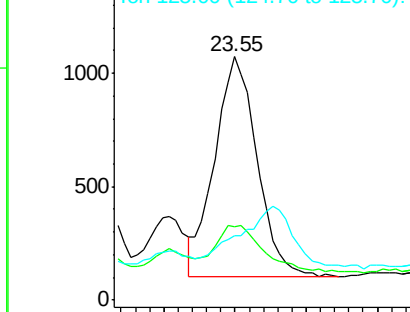
252 100

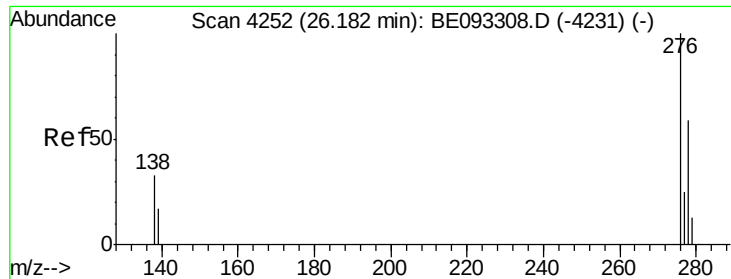
253 30.1 28.5 42.7

125 26.5 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: 0.02 ng/ul

RT: 26.17 min Scan# 4249

Delta R.T. -0.01 min

Lab File: BE093319.D

Acq: 21 Jun 2017 17:21

Instrument :

BNA\_E

ClientSampleId :

F5A89DL

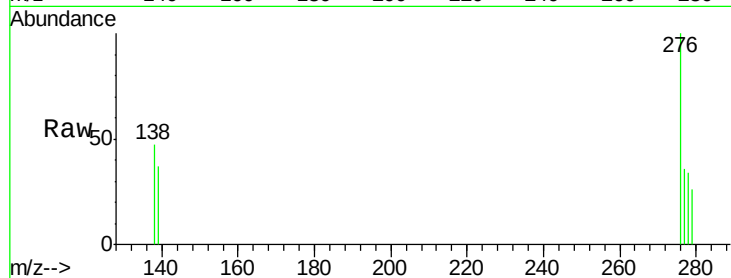
Tgt Ion:276 Resp: 869

Ion Ratio Lower Upper

276 100

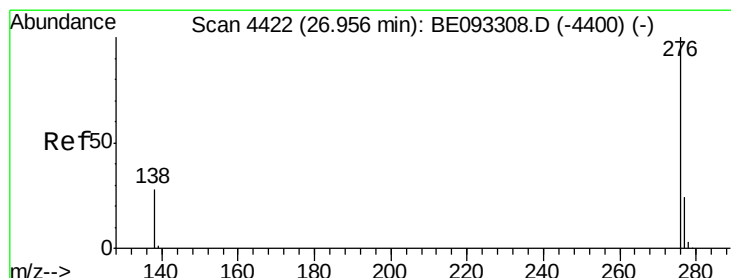
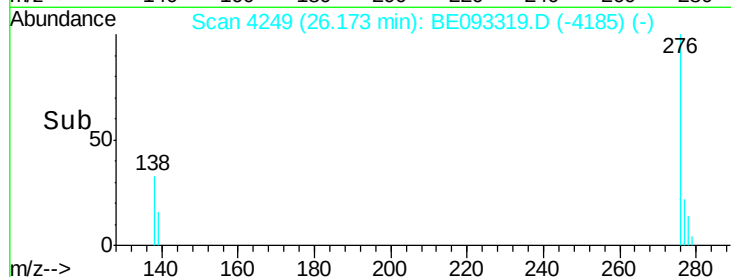
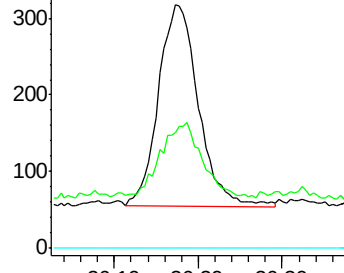
138 39.5 28.0 42.0

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

26.17



#26

Benzo(g,h,i)perylene

Concen: 0.02 ng/ul

RT: 26.96 min Scan# 4421

Delta R.T. 0.00 min

Lab File: BE093319.D

Acq: 21 Jun 2017 17:21

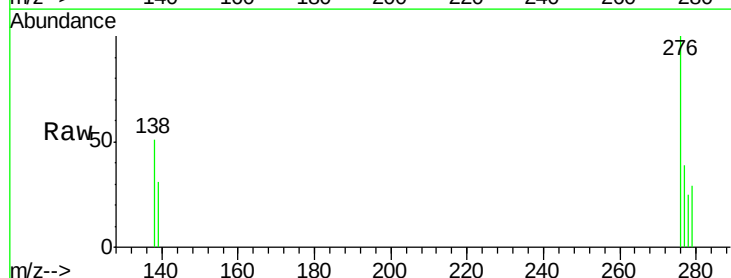
Tgt Ion:276 Resp: 675

Ion Ratio Lower Upper

276 100

138 51.3 21.8 32.8#

277 38.9 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

26.96

