

Data Path : Z:\HPCHEM1\BNA E\DATA\BE081517\  
 Data File : BE093827.D  
 Acq On : 16 Aug 2017 3:14  
 Operator : SJ/JU  
 Sample : I4557-02DL 5X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AC5DL

Quant Time: Aug 16 07:38:43 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE072417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 16 07:30:49 2017  
 Response via : Initial Calibration

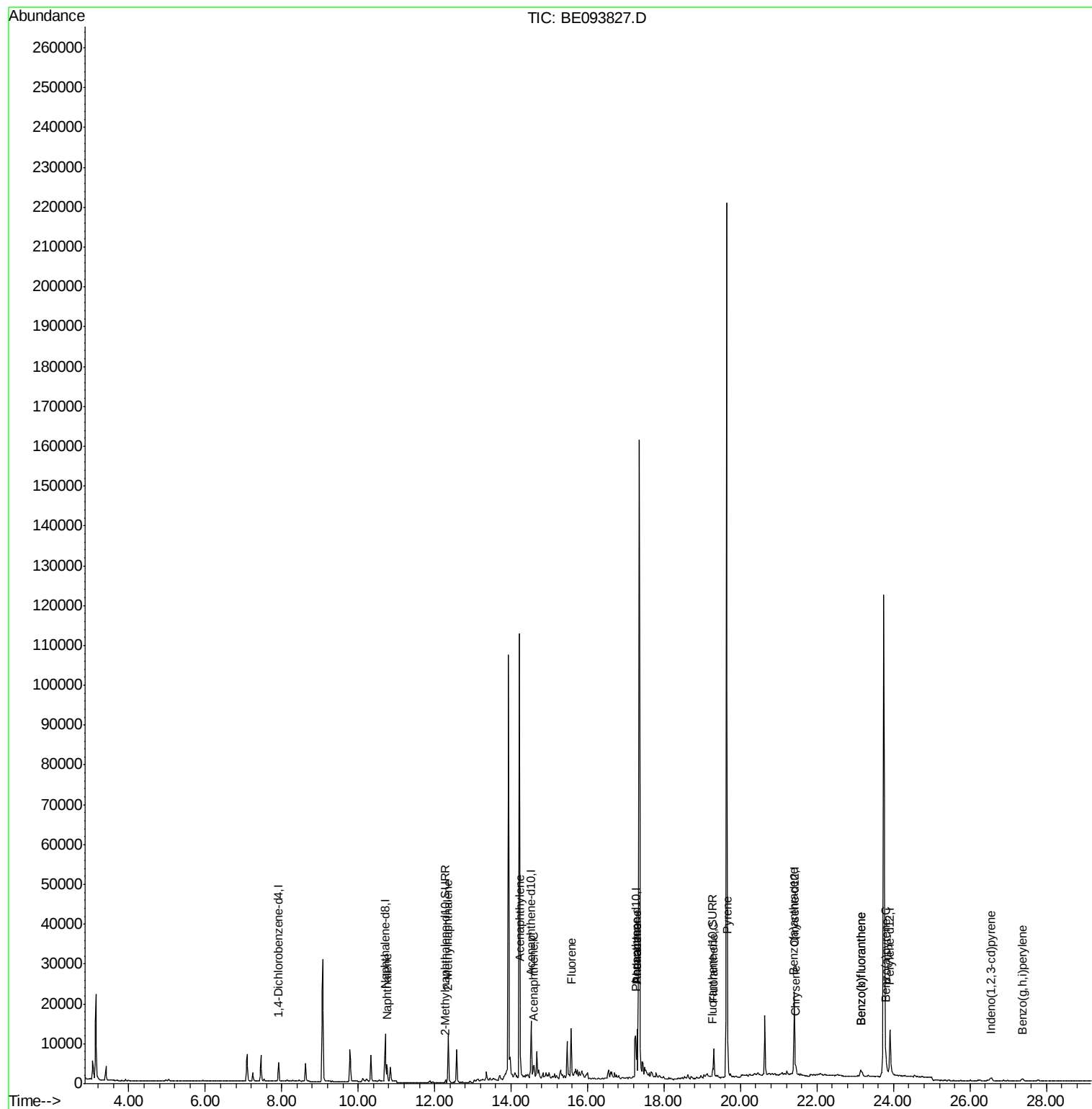
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.92  | 152  | 2540     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.70 | 136  | 13419    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.52 | 164  | 8158     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.26 | 188  | 18765    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.41 | 240  | 20021    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.91 | 264  | 19461    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.28 | 152  | 957      | 0.04   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.27 | 212  | 2764     | 0.05   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.75 | 128  | 6443     | 0.197  | ng/ul# | 95       |
| 5) 2-Methylnaphthalene      | 12.36 | 142  | 10523    | 0.442  | ng/ul  | 99       |
| 7) Acenaphthylene           | 14.24 | 152  | 739      | 0.022  | ng/ul# | 33       |
| 8) Acenaphthene             | 14.58 | 153  | 1616     | 0.060  | ng/ul  | 93       |
| 9) Fluorene                 | 15.57 | 166  | 7917     | 0.233  | ng/ul  | 93       |
| 12) Phenanthrene            | 17.29 | 178  | 14110    | 0.276  | ng/ul  | 93       |
| 13) Anthracene              | 17.29 | 178  | 13704    | 0.275  | ng/ul  | 95       |
| 15) Fluoranthene            | 19.30 | 202  | 8152     | 0.128  | ng/ul  | 83       |
| 17) Pyrene                  | 19.66 | 202  | 11318    | 0.194  | ng/ul# | 83       |
| 18) Benzo(a)anthracene      | 21.39 | 228  | 3514     | 0.061  | ng/ul# | 75       |
| 19) Chrysene                | 21.44 | 228  | 3532     | 0.063  | ng/ul# | 73       |
| 21) Benzo(b)fluoranthene    | 23.14 | 252  | 4130     | 0.069  | ng/ul# | 70       |
| 22) Benzo(k)fluoranthene    | 23.14 | 252  | 4140     | 0.070  | ng/ul# | 67       |
| 23) Benzo(a)pyrene          | 23.80 | 252  | 2689     | 0.047  | ng/ul# | 75       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.55 | 276  | 1307     | 0.021  | ng/ul# | 93       |
| 26) Benzo(a,h,i)perylene    | 27.37 | 276  | 1136     | 0.021  | ng/ul# | 61       |

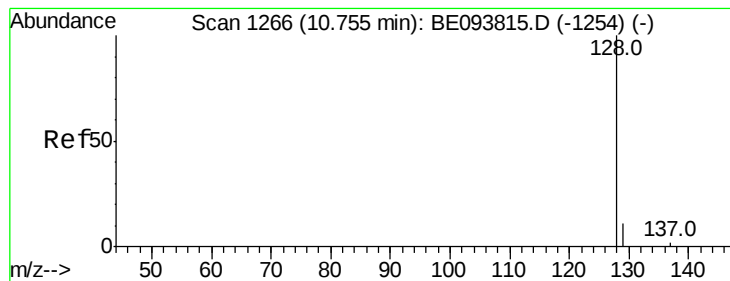
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Naphthalene

Concen: 0.197 ng/ul

RT: 10.75 min Scan# 1266

Delta R.T. -0.00 min

Lab File: BE093827.D

Acq: 16 Aug 2017 3:14

Instrument :

BNA\_E

ClientSampleId :

C0AC5DL

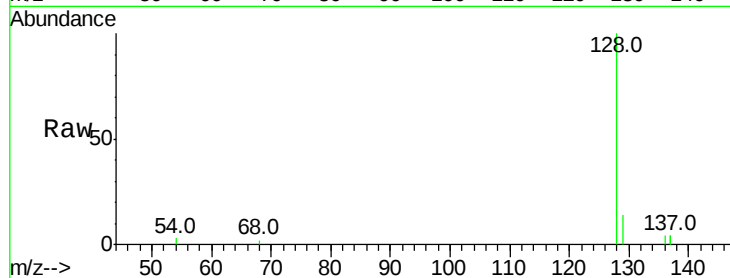
Tot Ion:128 Resp: 6443

Ion Ratio Lower Upper

128 100

129 13.8 11.3 16.9

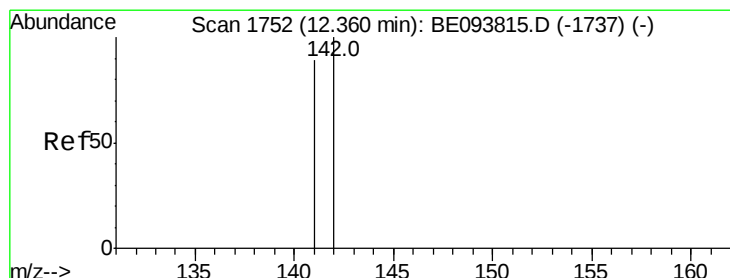
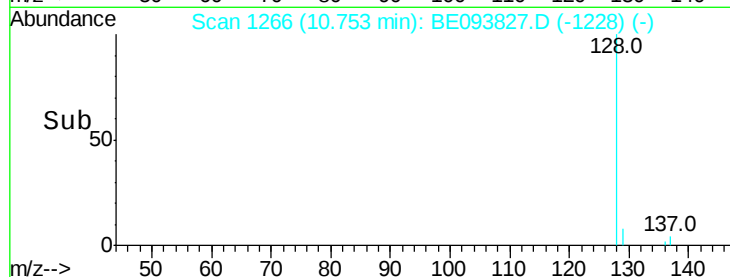
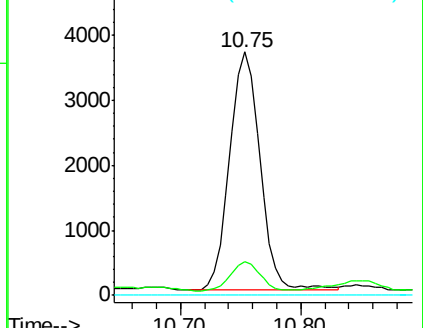
127 0.0 4.0 6.0#



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: 0.442 ng/ul

RT: 12.36 min Scan# 1752

Delta R.T. -0.00 min

Lab File: BE093827.D

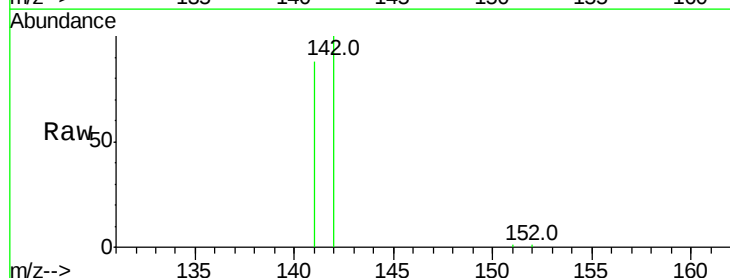
Acq: 16 Aug 2017 3:14

Tgt Ion:142 Resp: 10523

Ion Ratio Lower Upper

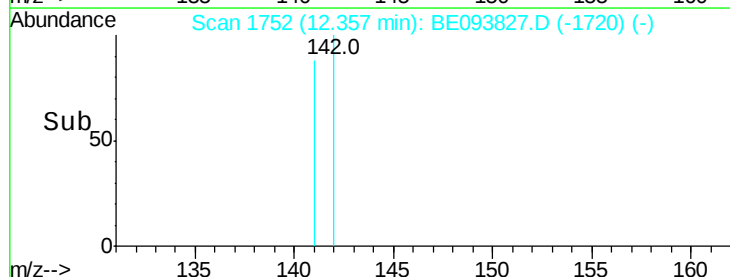
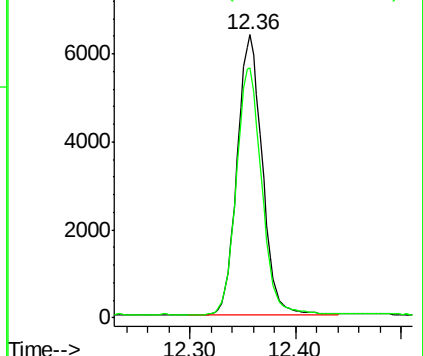
142 100

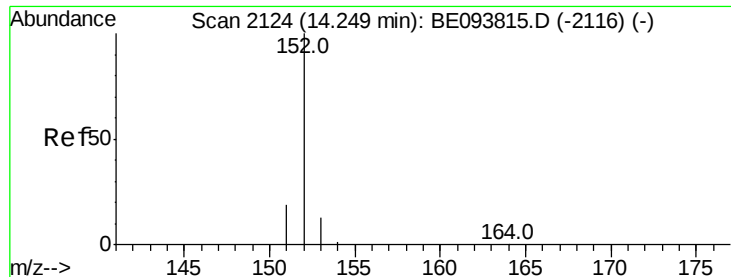
141 89.3 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.022 ng/ul

RT: 14.24 min Scan# 2125

Delta R.T. -0.01 min

Lab File: BE093827.D

Acq: 16 Aug 2017 3:14

Instrument :

BNA\_E

ClientSampleId :

C0AC5DL

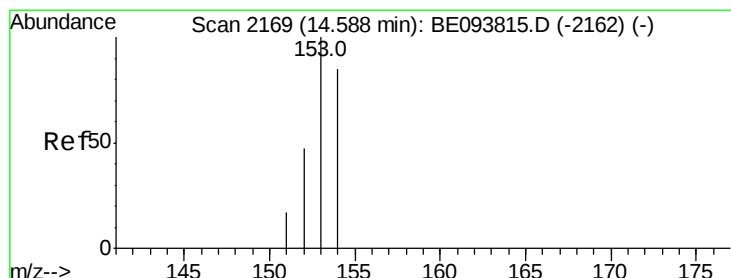
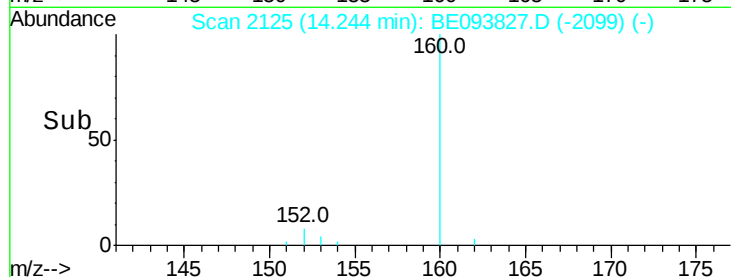
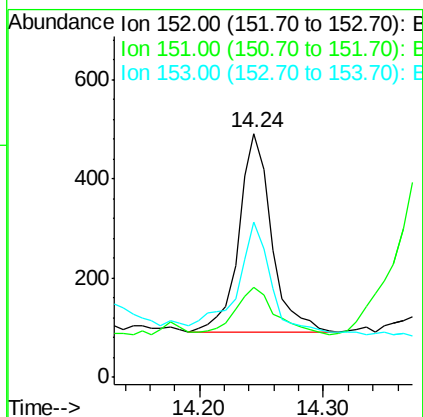
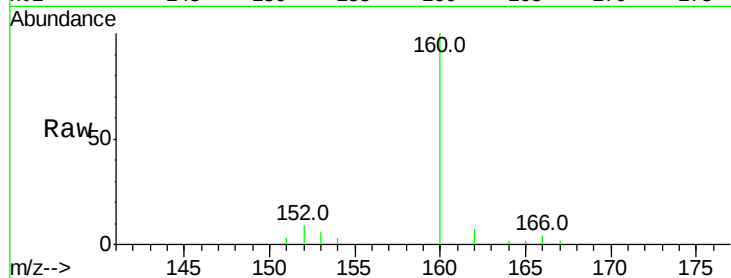
Tot Ion:152 Resp: 739

Ion Ratio Lower Upper

152 100

151 37.1 17.1 25.7#

153 63.5 12.8 19.2#



#8

Acenaphthene

Concen: 0.060 ng/ul

RT: 14.58 min Scan# 2170

Delta R.T. -0.01 min

Lab File: BE093827.D

Acq: 16 Aug 2017 3:14

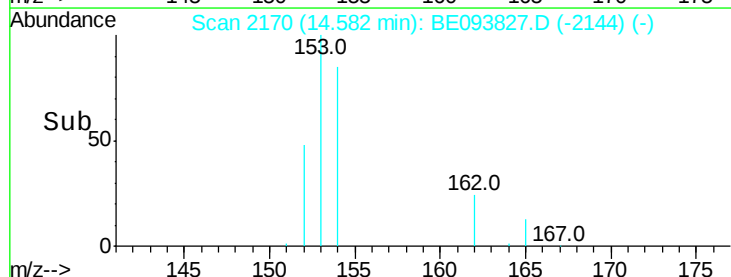
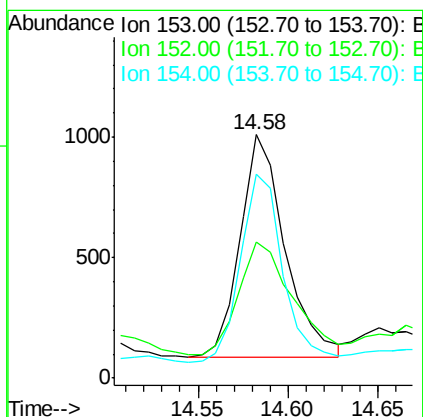
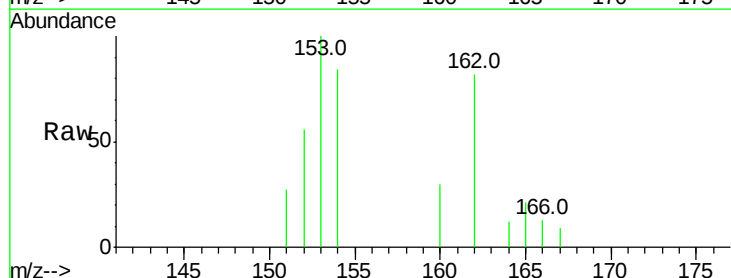
Tgt Ion:153 Resp: 1616

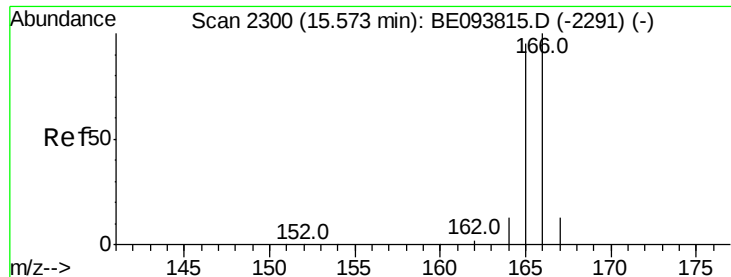
Ion Ratio Lower Upper

153 100

152 55.9 40.3 60.5

154 83.8 71.4 107.2

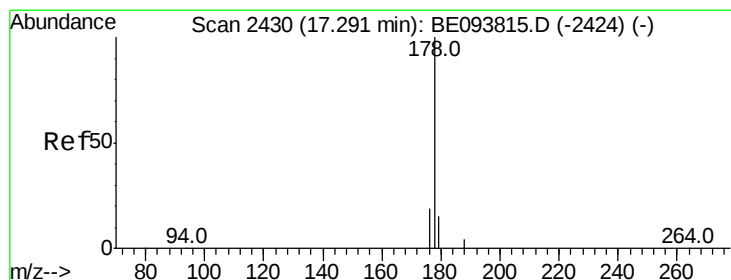
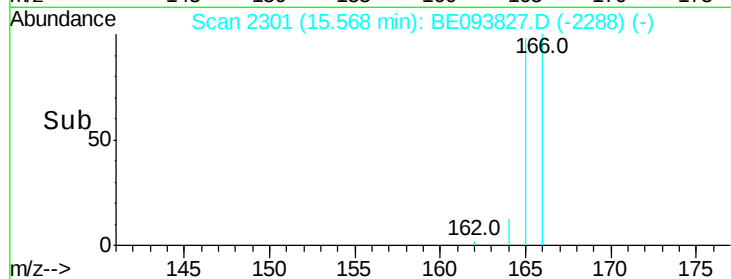
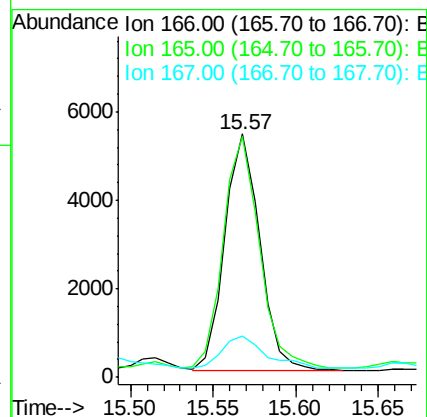
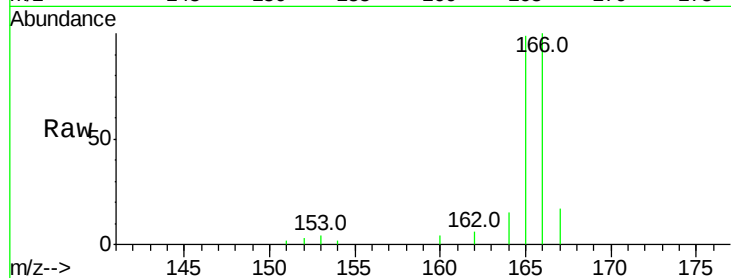




#9  
**Fluorene**  
 Concen: 0.233 ng/ul  
 RT: 15.57 min Scan# 2301  
 Delta R.T. -0.01 min  
 Lab File: BE093827.D  
 Acq: 16 Aug 2017 3:14

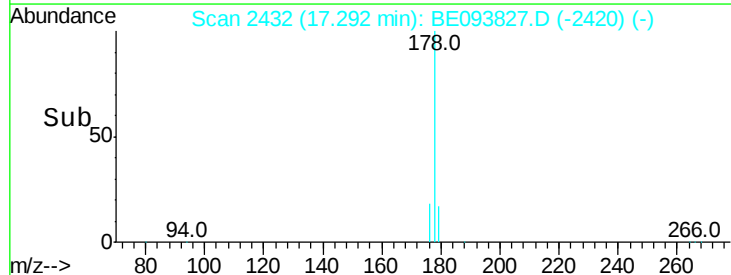
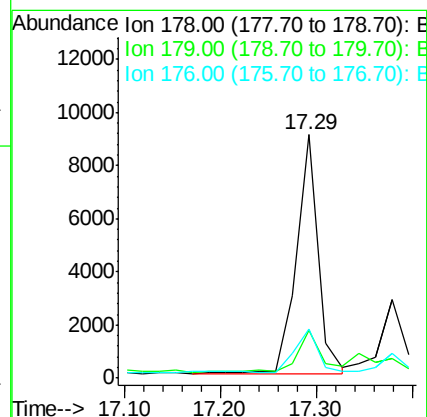
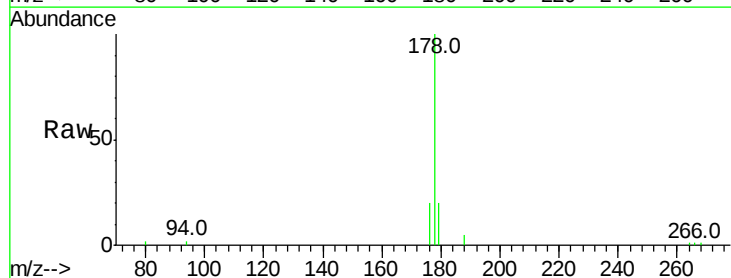
Instrument :  
 BNA\_E  
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 C0AC5DL

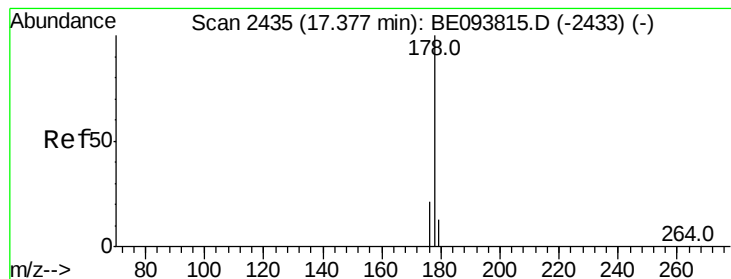
Tot Ion:166 Resp: 7917  
 Ion Ratio Lower Upper  
 166 100  
 165 99.1 73.4 110.2  
 167 17.0 14.6 22.0



#12  
**Phenanthrene**  
 Concen: 0.276 ng/ul  
 RT: 17.29 min Scan# 2432  
 Delta R.T. 0.00 min  
 Lab File: BE093827.D  
 Acq: 16 Aug 2017 3:14

Tgt Ion:178 Resp: 14110  
 Ion Ratio Lower Upper  
 178 100  
 179 19.8 18.4 27.6  
 176 20.2 13.6 20.4





#13

Anthracene

Concen: 0.275 ng/ul

RT: 17.29 min Scan# 2432

Delta R.T. -0.09 min

Lab File: BE093827.D

Acq: 16 Aug 2017 3:14

Instrument :

BNA\_E

ClientSampleId :

C0AC5DL

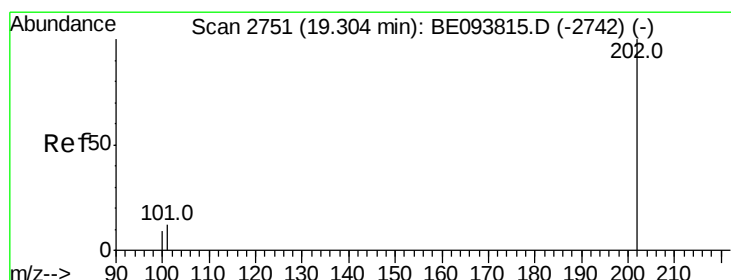
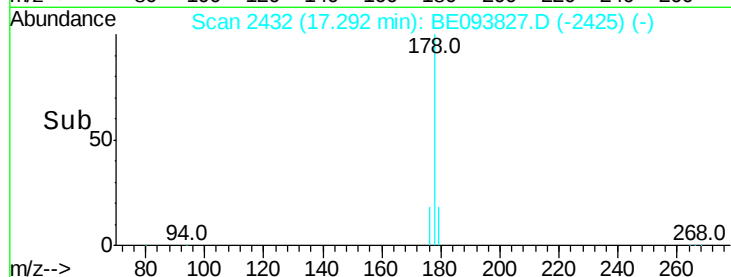
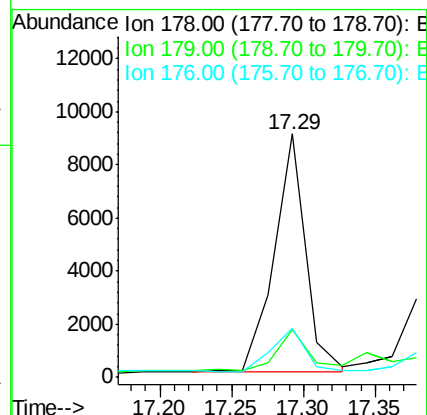
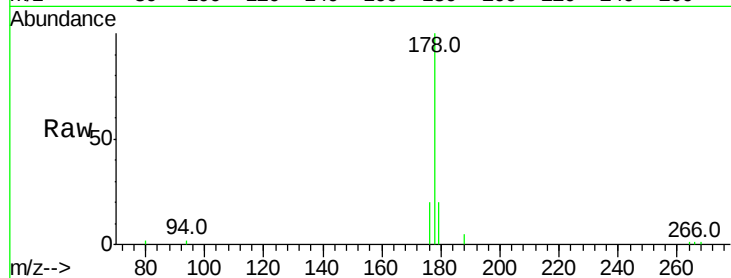
Tot Ion:178 Resp: 13704

Ion Ratio Lower Upper

178 100

179 19.8 18.1 27.1

176 20.2 14.7 22.1



#15

Fluoranthene

Concen: 0.128 ng/ul

RT: 19.30 min Scan# 2752

Delta R.T. -0.00 min

Lab File: BE093827.D

Acq: 16 Aug 2017 3:14

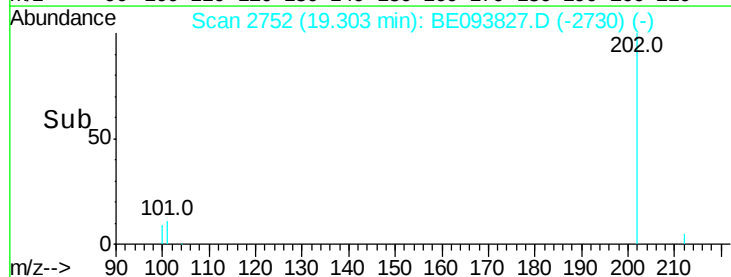
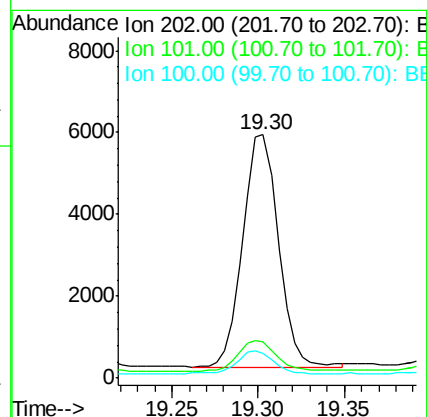
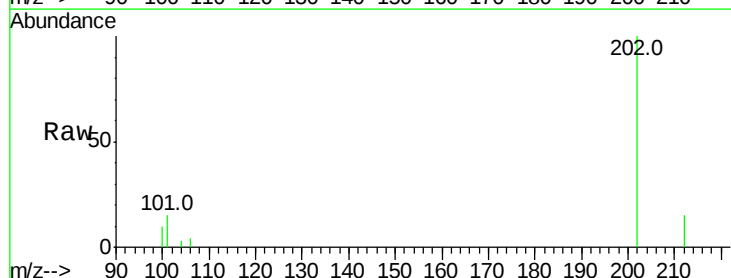
Tgt Ion:202 Resp: 8152

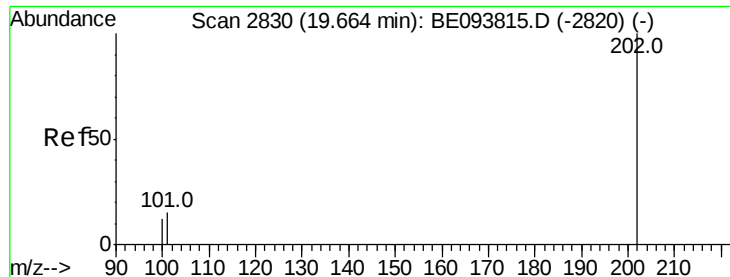
Ion Ratio Lower Upper

202 100

101 14.7 0.0 30.3

100 10.4 0.0 39.5





#17

Pvrene

Concen: 0.194 ng/ul

RT: 19.66 min Scan# 2831

Delta R.T. -0.00 min

Lab File: BE093827.D

Acq: 16 Aug 2017 3:14

Instrument :

BNA\_E

ClientSampleId :

C0AC5DL

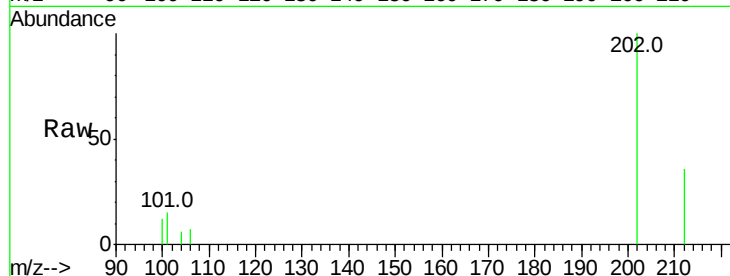
Tot Ion:202 Resp: 11318

Ion Ratio Lower Upper

202 100

101 14.5 18.2 27.4#

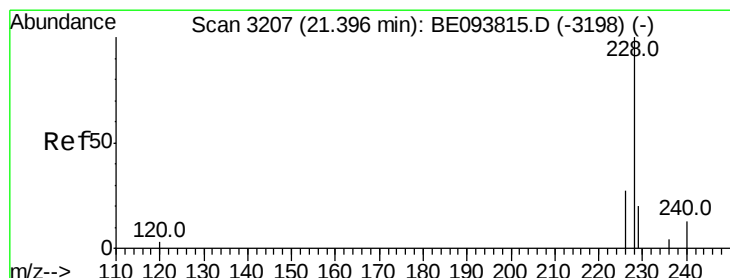
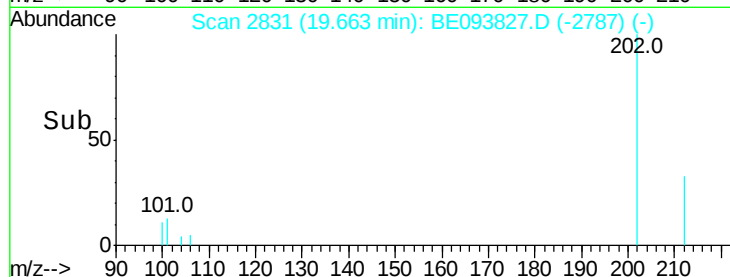
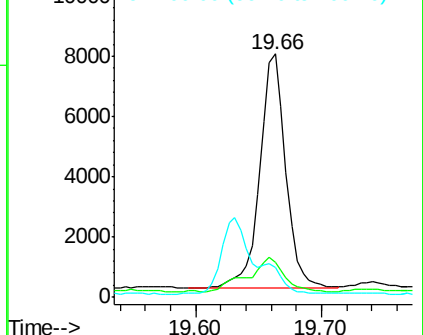
100 12.1 15.6 23.4#



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): BE



#18

Benzo(a)anthracene

Concen: 0.061 ng/ul

RT: 21.39 min Scan# 3207

Delta R.T. -0.01 min

Lab File: BE093827.D

Acq: 16 Aug 2017 3:14

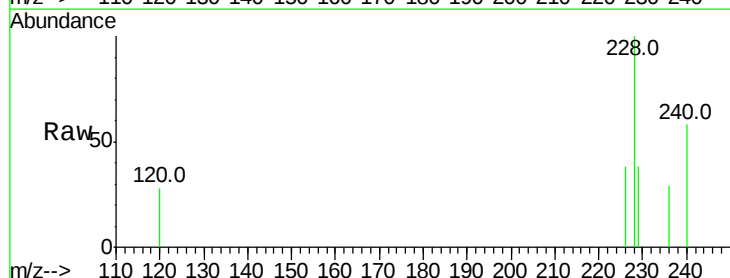
Tgt Ion:228 Resp: 3514

Ion Ratio Lower Upper

228 100

229 38.0 22.8 34.2#

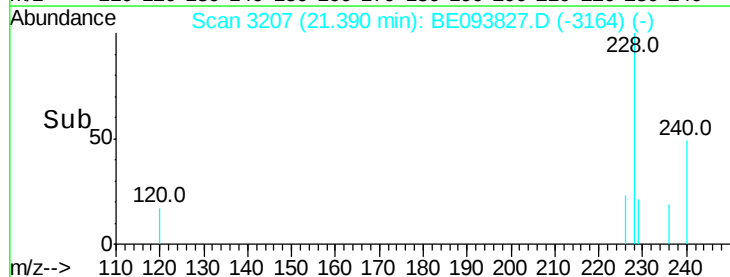
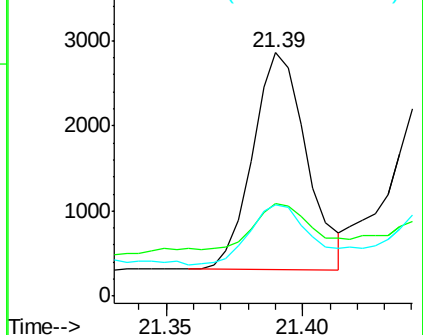
226 37.7 17.0 25.6#

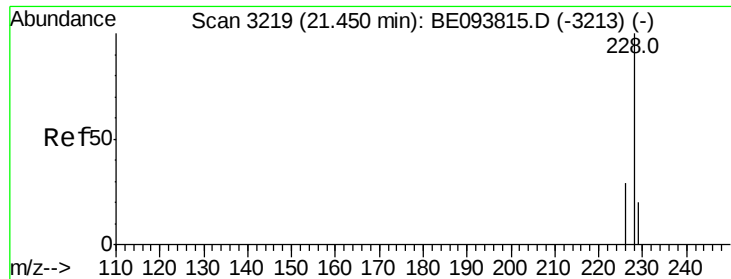


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#19

Chrysene

Concen: 0.063 ng/ul

RT: 21.44 min Scan# 3219

Delta R.T. -0.01 min

Lab File: BE093827.D

Acq: 16 Aug 2017 3:14

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BNA\_E

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C0AC5DL

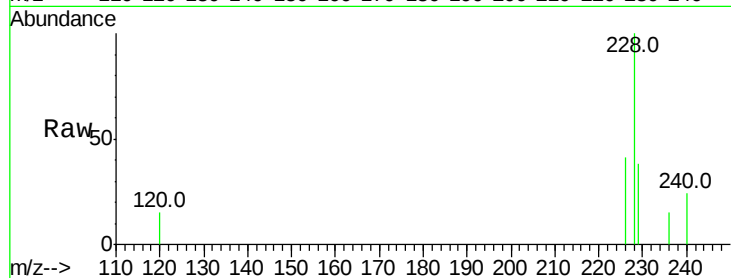
Tot Ion:228 Resp: 3532

Ion Ratio Lower Upper

228 100

226 41.0 23.4 35.0#

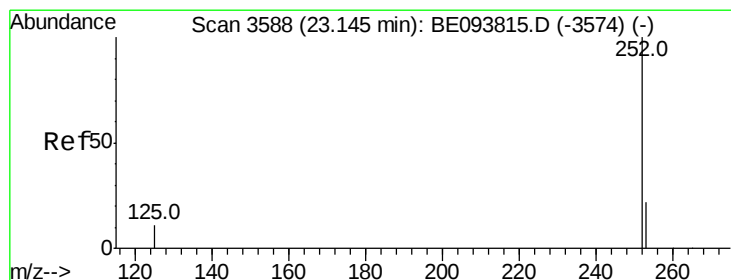
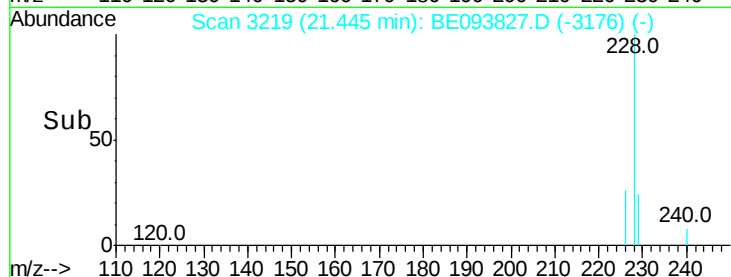
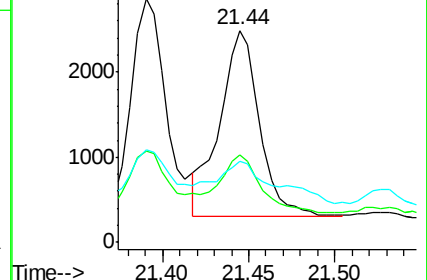
229 38.2 17.7 26.5#



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: 0.069 ng/ul

RT: 23.14 min Scan# 3588

Delta R.T. -0.01 min

Lab File: BE093827.D

Acq: 16 Aug 2017 3:14

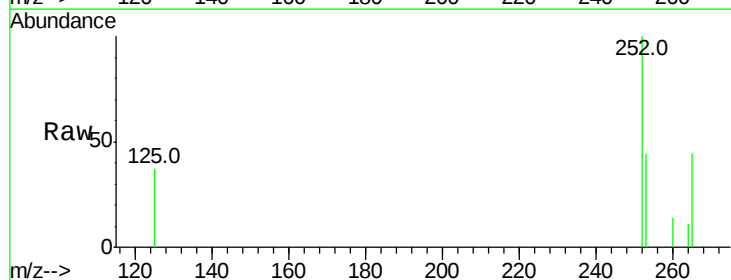
Tgt Ion:252 Resp: 4130

Ion Ratio Lower Upper

252 100

253 44.4 0.0 64.2

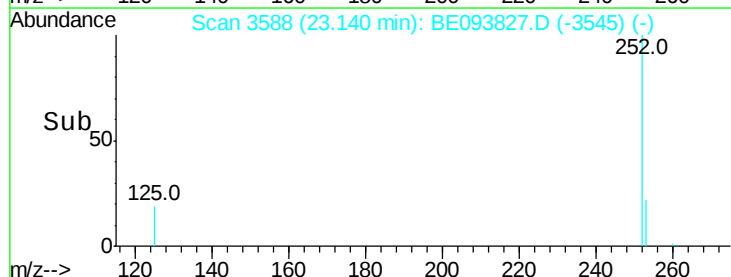
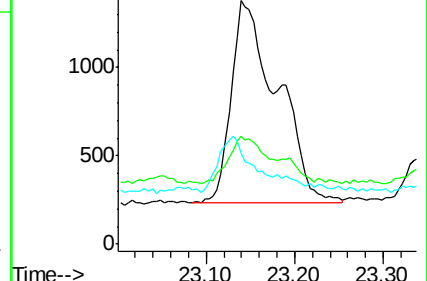
125 37.4 0.0 35.0#

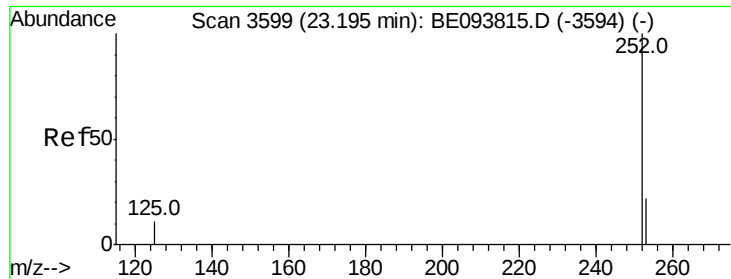


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#22

Benzo(k)fluoranthene

Concen: 0.070 ng/ul

RT: 23.14 min Scan# 3588

Delta R.T. -0.06 min

Lab File: BE093827.D

Acq: 16 Aug 2017 3:14

Instrument :

BNA\_E

ClientSampleId :

C0AC5DL

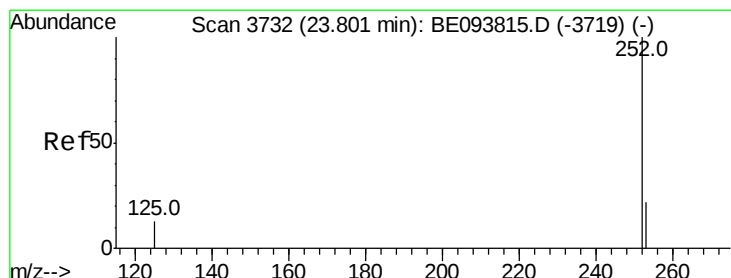
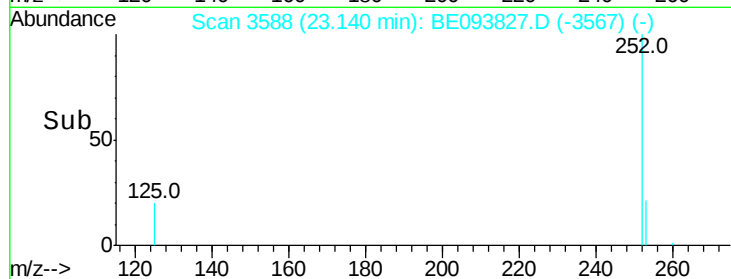
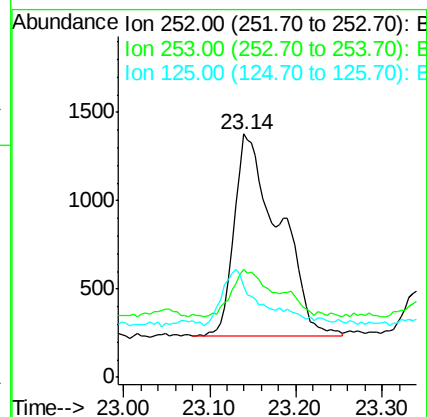
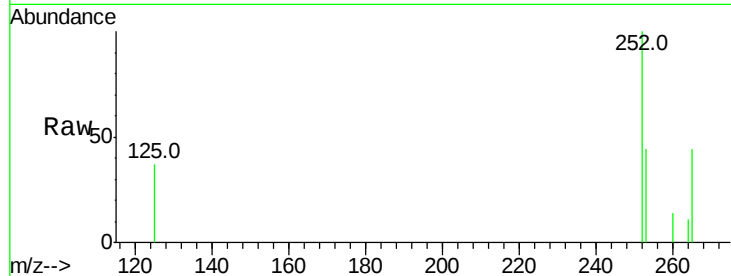
Tot Ion:252 Resp: 4140

Ion Ratio Lower Upper

252 100

253 44.4 24.5 36.7#

125 37.4 13.7 20.5#



#23

Benzo(a)pyrene

Concen: 0.047 ng/ul

RT: 23.80 min Scan# 3733

Delta R.T. -0.00 min

Lab File: BE093827.D

Acq: 16 Aug 2017 3:14

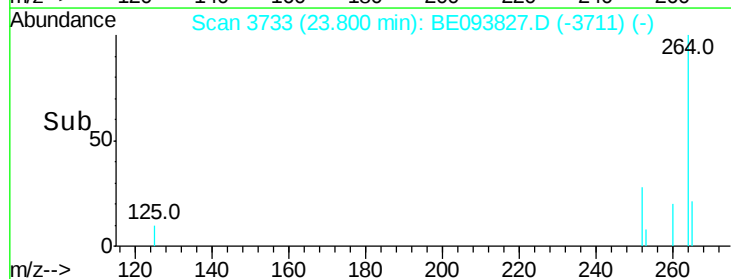
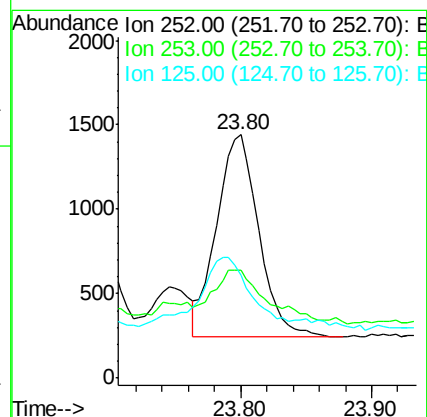
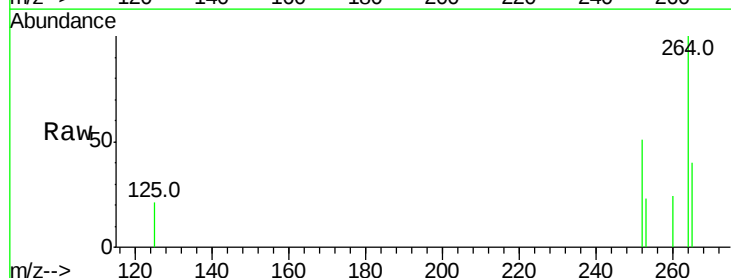
Tgt Ion:252 Resp: 2689

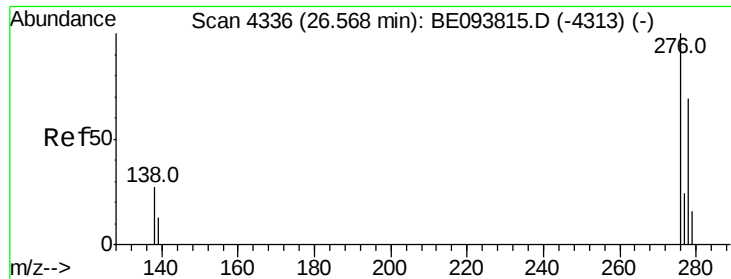
Ion Ratio Lower Upper

252 100

253 44.4 28.5 42.7#

125 42.4 18.1 27.1#



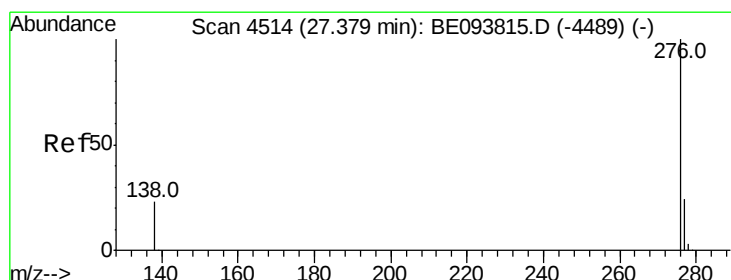
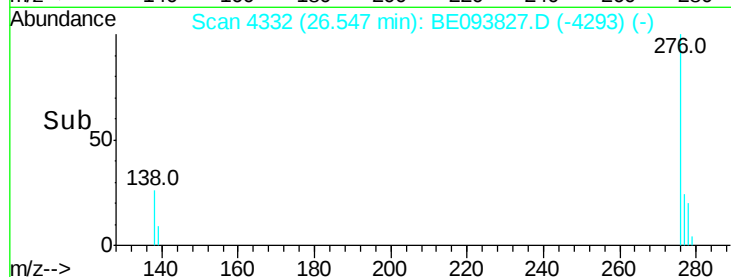
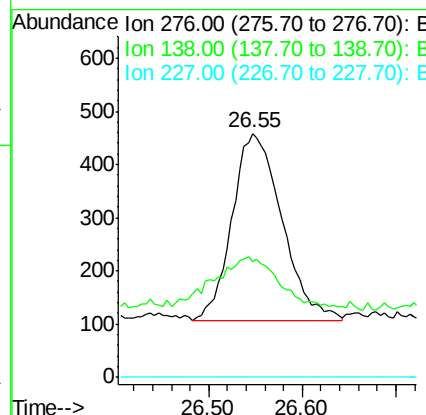
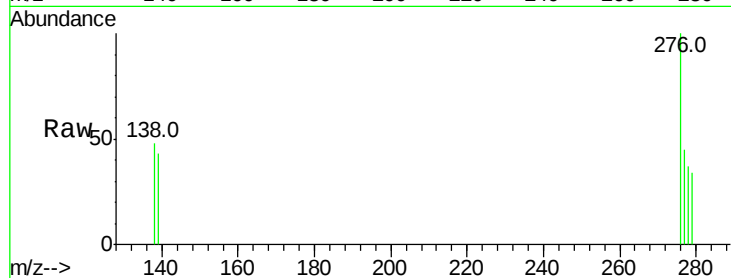


#24

Indeno(1,2,3-cd)pyrene  
Concen: 0.021 ng/ul  
RT: 26.55 min Scan# 4332  
Delta R.T. -0.02 min  
Lab File: BE093827.D  
Acq: 16 Aug 2017 3:14

Instrument :  
BNA\_E  
ClientSampleId :  
C0AC5DL

Tot Ion:276 Resp: 1307  
Ion Ratio Lower Upper  
276 100  
138 36.0 28.0 42.0  
227 0.0 8.0 12.0#



#26

Benzo(g,h,i)perylene  
Concen: 0.021 ng/ul  
RT: 27.37 min Scan# 4512  
Delta R.T. -0.01 min  
Lab File: BE093827.D  
Acq: 16 Aug 2017 3:14

Tgt Ion:276 Resp: 1136  
Ion Ratio Lower Upper  
276 100  
138 49.9 21.8 32.8#  
277 43.1 20.5 30.7#

