

Data Path : Z:\HPCHEM1\BNA E\DATA\BE040918\  
 Data File : BE095961.D  
 Acq On : 9 Apr 2018 9:36  
 Operator : SJ/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Apr 10 03:43:15 2018  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Apr 07 00:03:45 2018  
 Response via : Initial Calibration

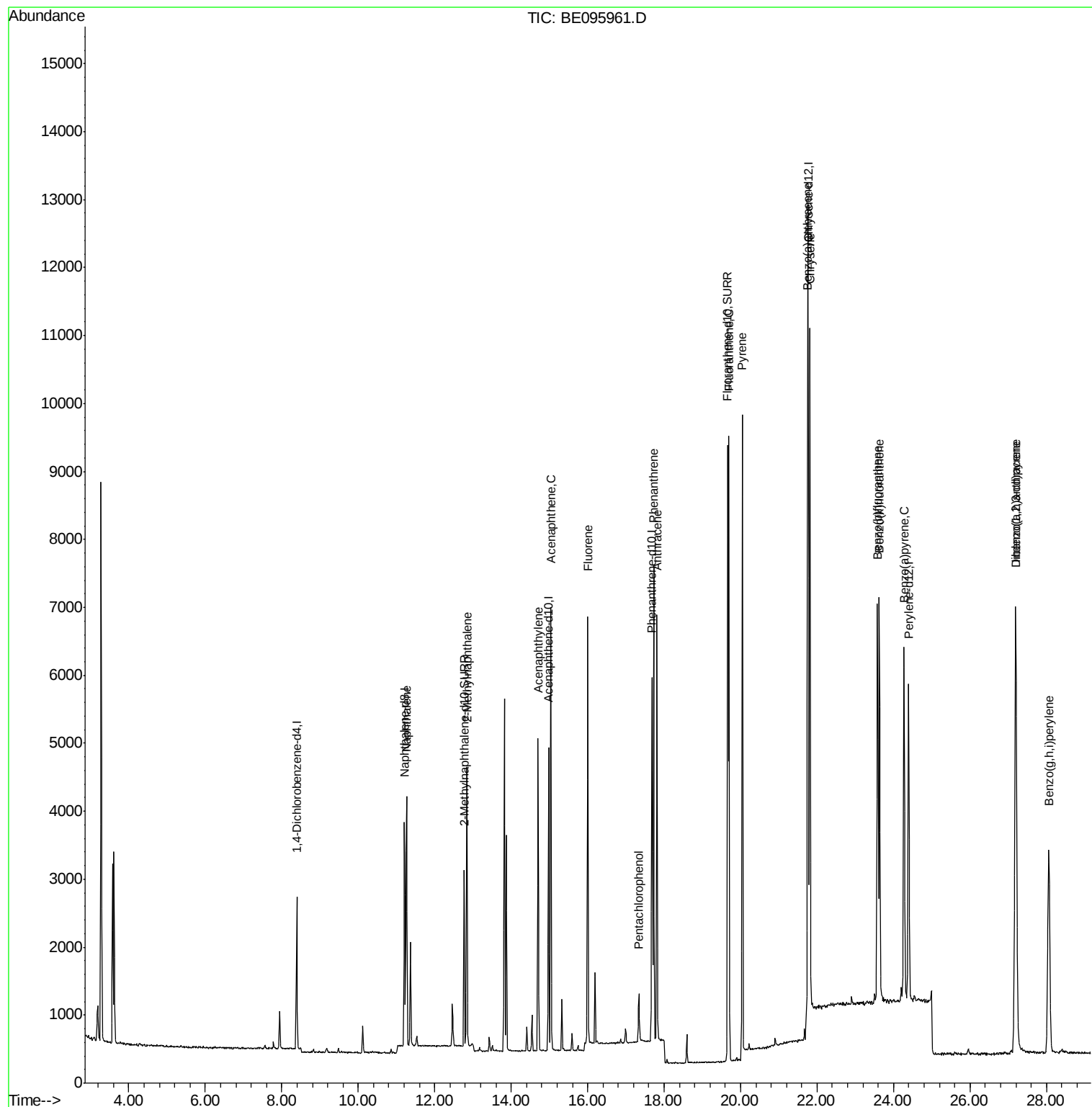
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.39  | 152  | 1758     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 11.21 | 136  | 4443     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.98 | 164  | 2535     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.68 | 188  | 6197     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.77 | 240  | 7213     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 24.40 | 264  | 6854     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.77 | 152  | 3295     | 0.40   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.66 | 212  | 10132    | 0.40   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 11.26 | 128  | 4922     | 0.397  | ng/ul# | 89       |
| 5) 2-Methylnaphthalene      | 12.84 | 142  | 3367     | 0.400  | ng/ul  | 99       |
| 7) Acenaphthylene           | 14.70 | 152  | 5142     | 0.391  | ng/ul  | 98       |
| 8) Acenaphthene             | 15.04 | 153  | 3702     | 0.393  | ng/ul  | 96       |
| 9) Fluorene                 | 16.00 | 166  | 4203     | 0.395  | ng/ul  | 88       |
| 11) Pentachlorophenol       | 17.34 | 266  | 382      | 0.291  | ng/ul  | 98       |
| 12) Phenanthrene            | 17.72 | 178  | 7250     | 0.397  | ng/ul# | 89       |
| 13) Anthracene              | 17.81 | 178  | 7197     | 0.396  | ng/ul# | 92       |
| 15) Fluoranthene            | 19.69 | 202  | 9953     | 0.400  | ng/ul  | 84       |
| 17) Pyrene                  | 20.05 | 202  | 10885    | 0.444  | ng/ul# | 81       |
| 18) Benzo(a)anthracene      | 21.76 | 228  | 12776    | 0.438  | ng/ul# | 86       |
| 19) Chrysene                | 21.81 | 228  | 9323     | 0.445  | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 23.58 | 252  | 9062     | 0.409  | ng/ul  | 85       |
| 22) Benzo(k)fluoranthene    | 23.63 | 252  | 8675     | 0.393  | ng/ul# | 89       |
| 23) Benzo(a)pyrene          | 24.28 | 252  | 8504     | 0.397  | ng/ul# | 81       |
| 24) Indeno(1,2,3-cd)pyrene  | 27.19 | 276  | 9397     | 0.395  | ng/ul# | 78       |
| 25) Dibenzo(a,h)anthracene  | 27.21 | 278  | 7560     | 0.395  | ng/ul  | 91       |
| 26) Benzo(g,h,i)perylene    | 28.06 | 276  | 7982     | 0.402  | ng/ul  | 95       |

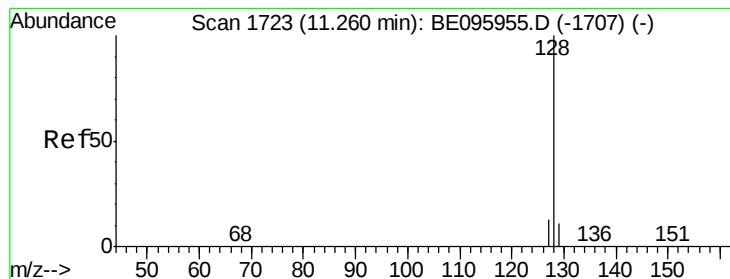
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Naphthalene

Concen: 0.397 ng/ul

RT: 11.26 min Scan# 1723

Delta R.T. 0.00 min

Lab File: BE095961.D

Acq: 9 Apr 2018 9:36

Instrument :

BNA\_E

ClientSampleId :

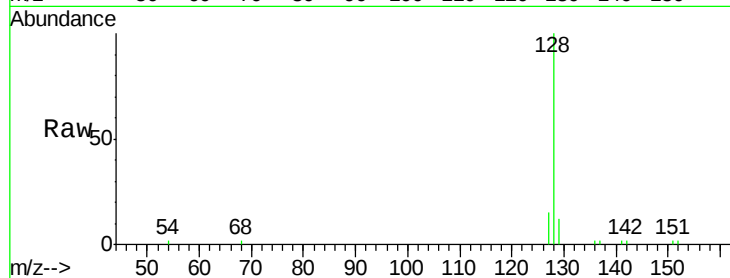
Tot Ion:128 Resp: 4922

Ion Ratio Lower Upper

128 100

129 12.4 11.3 16.9

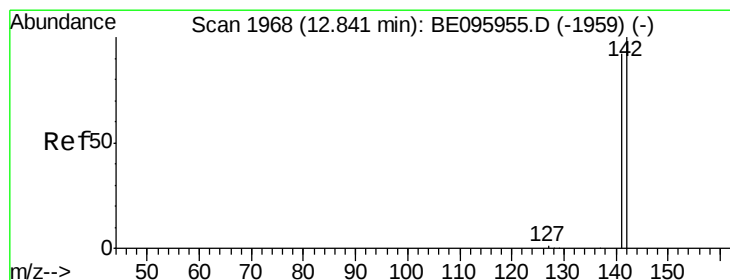
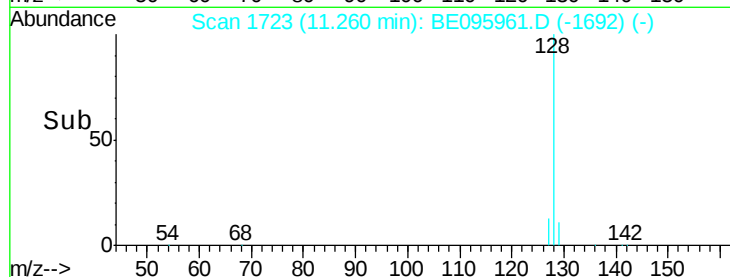
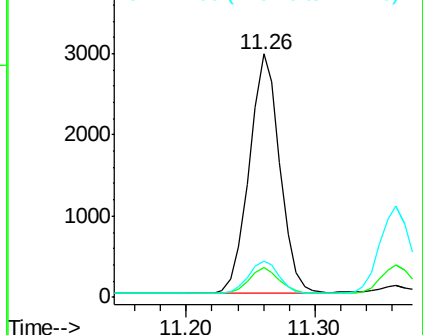
127 14.7 4.0 6.0#



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: 0.400 ng/ul

RT: 12.84 min Scan# 1968

Delta R.T. 0.00 min

Lab File: BE095961.D

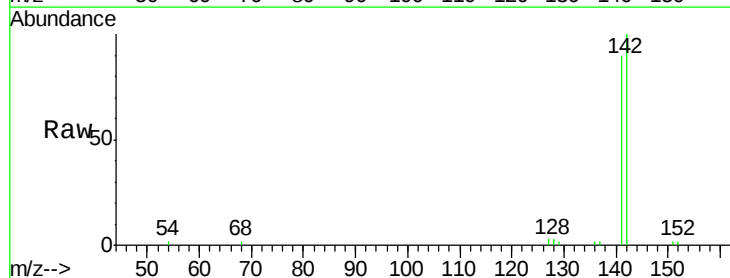
Acq: 9 Apr 2018 9:36

Tgt Ion:142 Resp: 3367

Ion Ratio Lower Upper

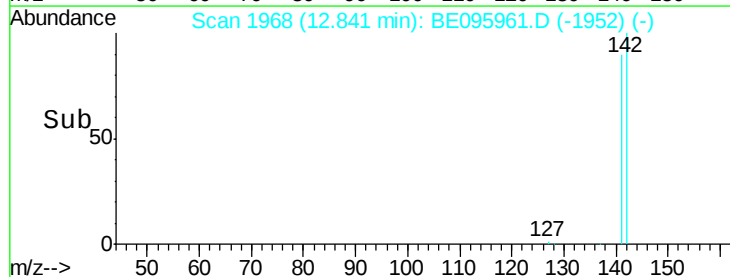
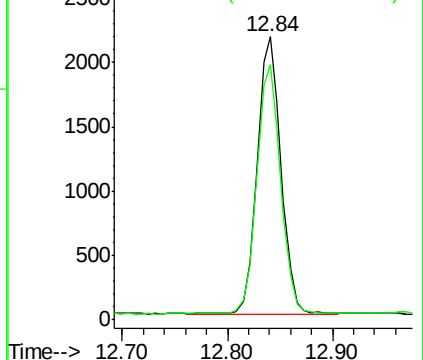
142 100

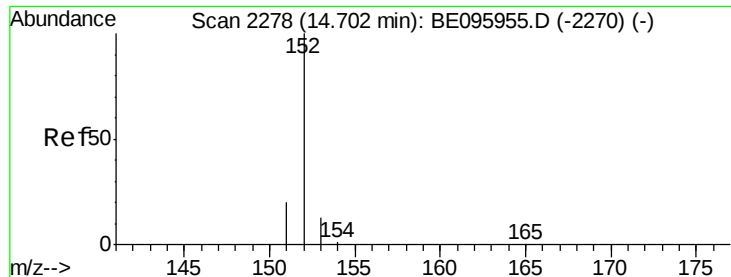
141 90.0 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.391 ng/ul

RT: 14.70 min Scan# 2279

Delta R.T. 0.00 min

Lab File: BE095961.D

Acq: 9 Apr 2018 9:36

Instrument :

BNA\_E

ClientSampleId :

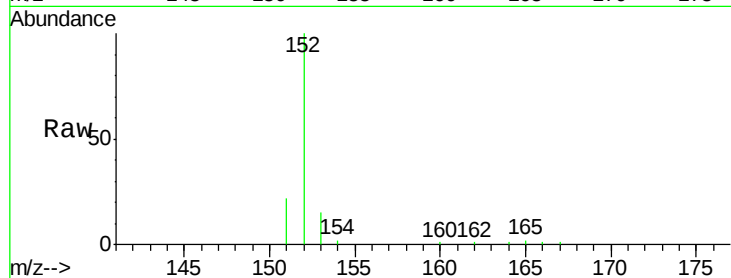
Tot Ion:152 Resp: 5142

Ion Ratio Lower Upper

152 100

151 22.0 17.1 25.7

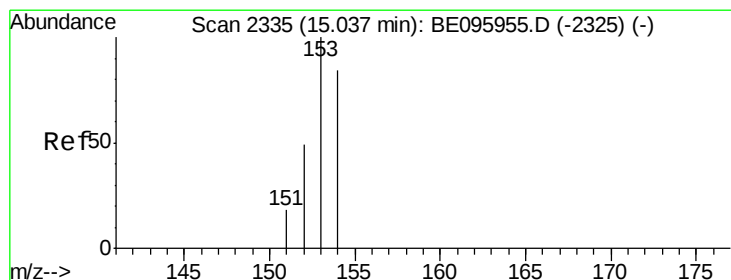
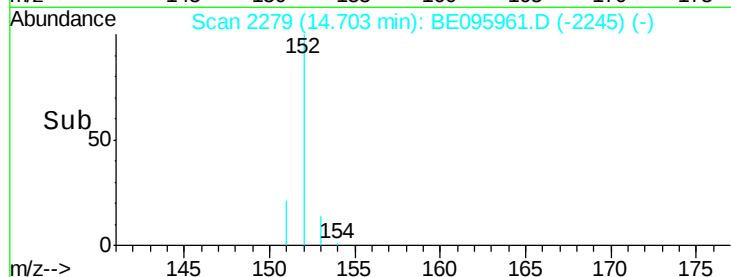
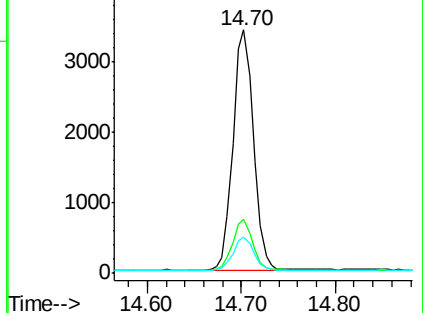
153 14.8 12.8 19.2



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: 0.393 ng/ul

RT: 15.04 min Scan# 2336

Delta R.T. 0.00 min

Lab File: BE095961.D

Acq: 9 Apr 2018 9:36

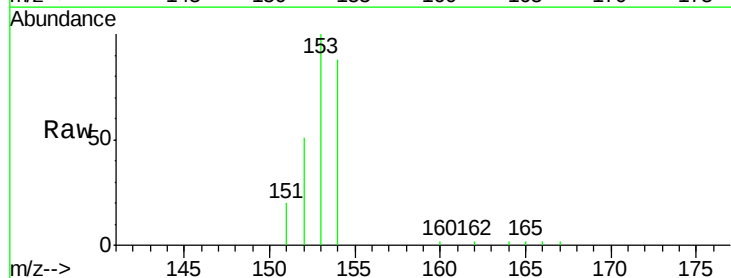
Tgt Ion:153 Resp: 3702

Ion Ratio Lower Upper

153 100

152 50.7 36.0 54.0

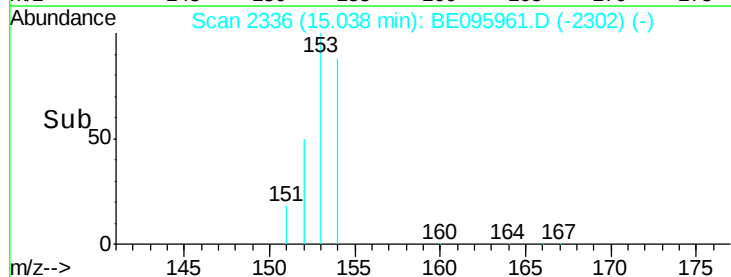
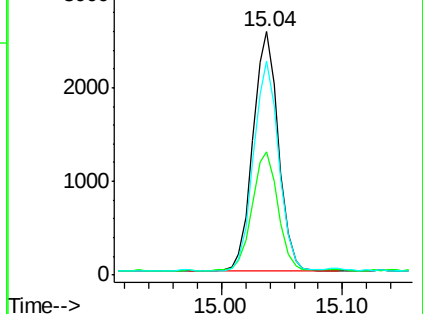
154 87.8 72.0 108.0

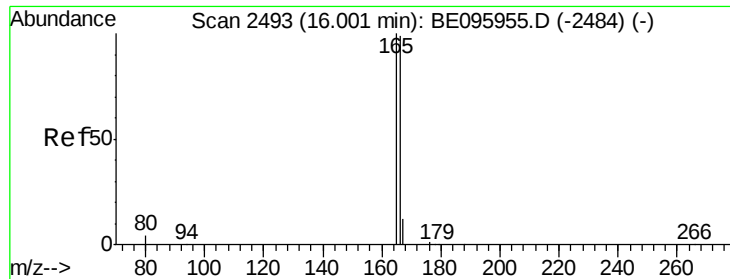


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 0.395 ng/ul

RT: 16.00 min Scan# 2493

Delta R.T. -0.00 min

Lab File: BE095961.D

Acq: 9 Apr 2018 9:36

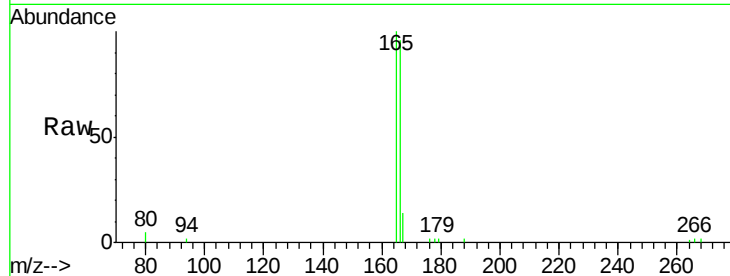
Instrument :

BNA\_E

ClientSampleId :

Tot Ion:166 Resp: 4203

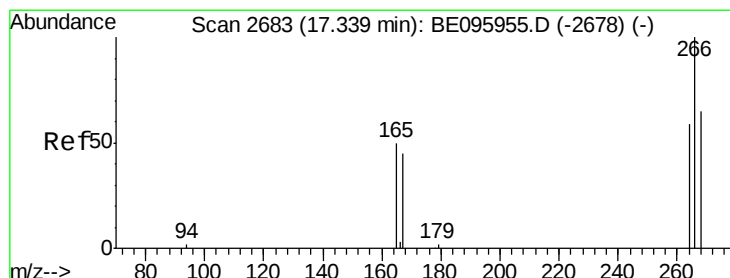
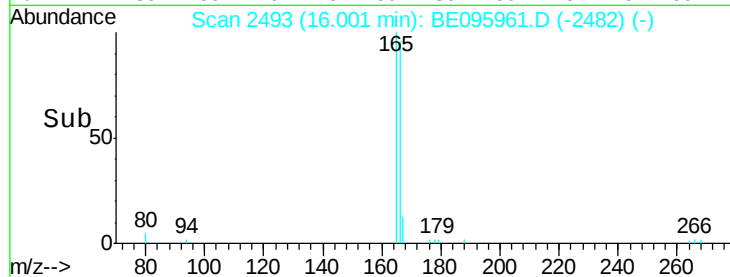
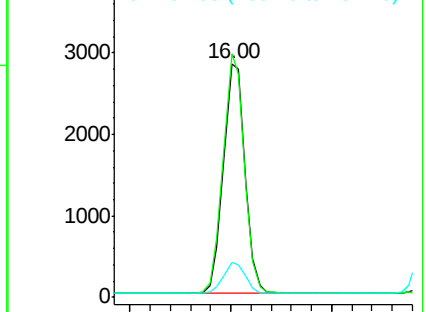
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 166 | 100   |       |       |
| 165 | 104.1 | 73.4  | 110.2 |
| 167 | 15.1  | 14.6  | 22.0  |



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



#11

Pentachlorophenol

Concen: 0.291 ng/ul

RT: 17.34 min Scan# 2683

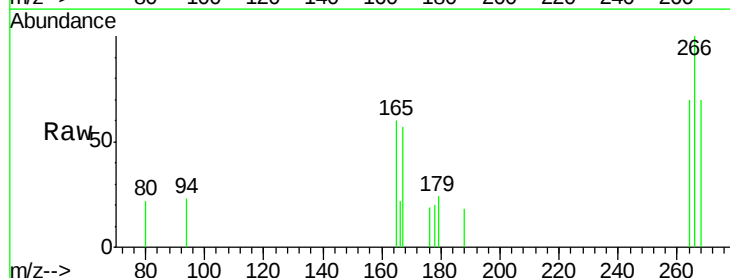
Delta R.T. -0.00 min

Lab File: BE095961.D

Acq: 9 Apr 2018 9:36

Tgt Ion:266 Resp: 382

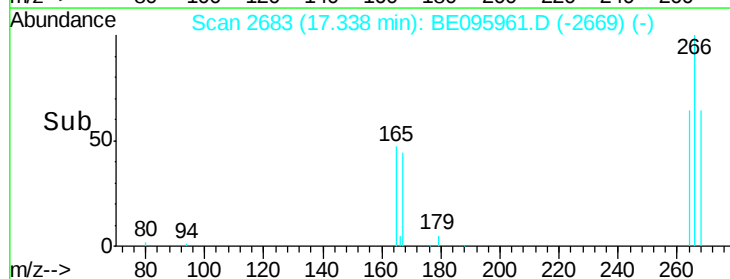
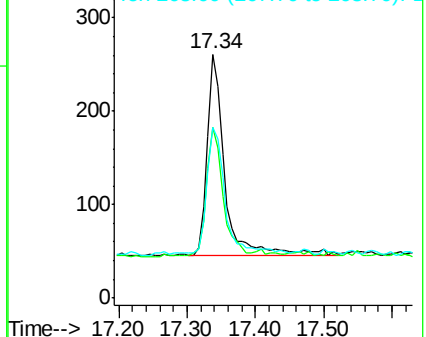
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 266 | 100   |       |       |
| 264 | 59.9  | 47.9  | 71.9  |
| 268 | 64.7  | 49.8  | 74.8  |

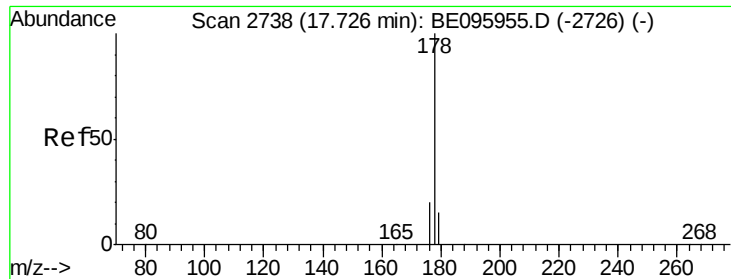


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E

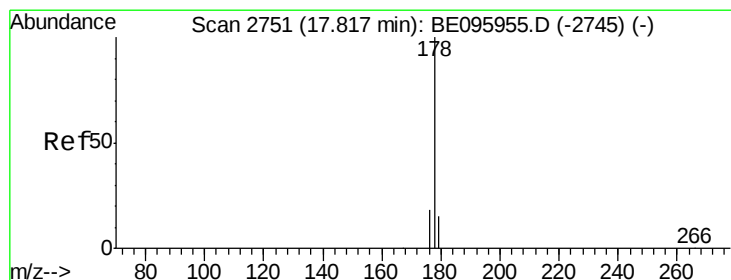
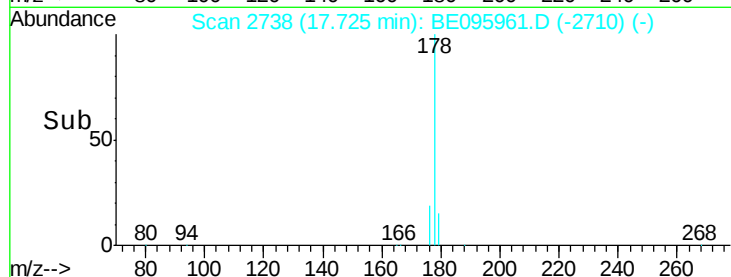
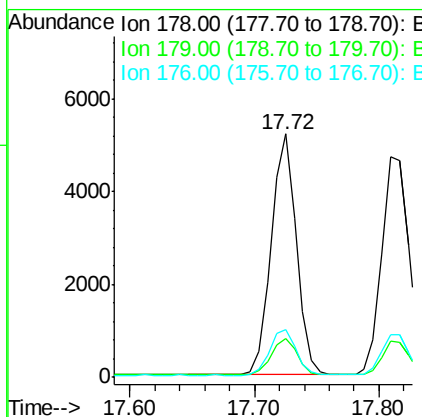
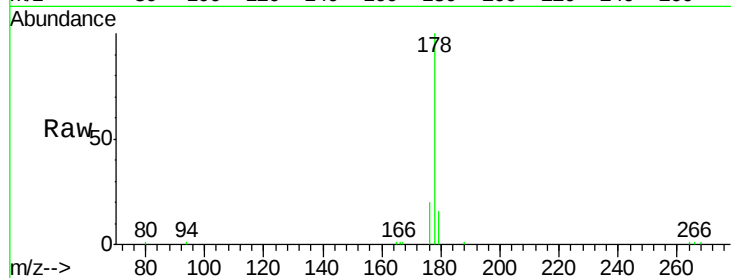




#12  
Phenanthrene  
Concen: 0.397 ng/ul  
RT: 17.72 min Scan# 2738  
Delta R.T. -0.00 min  
Lab File: BE095961.D  
Acq: 9 Apr 2018 9:36

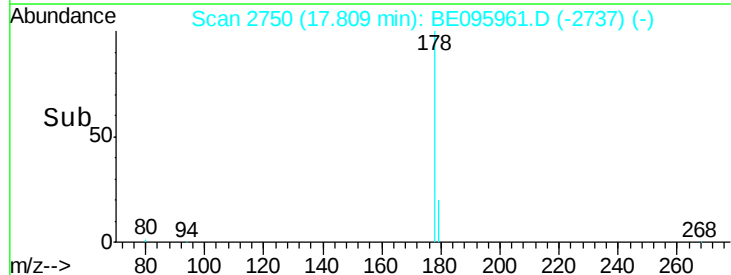
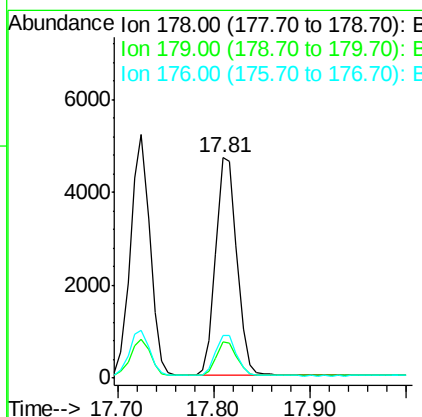
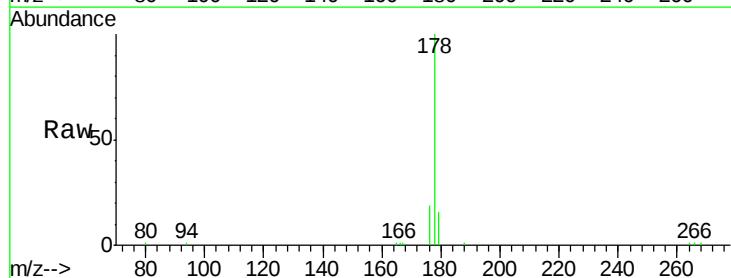
Instrument :  
BNA\_E  
ClientSampleId :

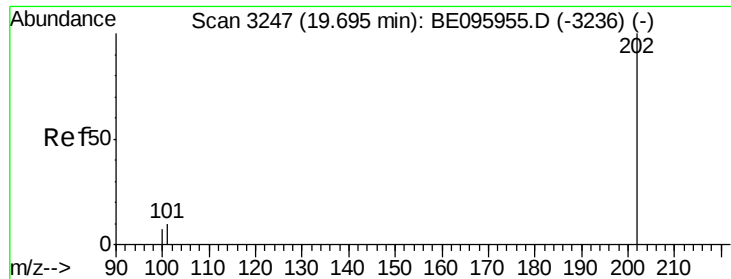
Tot Ion:178 Resp: 7250  
Ion Ratio Lower Upper  
178 100  
179 16.0 18.4 27.6#  
176 19.8 13.6 20.4



#13  
Anthracene  
Concen: 0.396 ng/ul  
RT: 17.81 min Scan# 2750  
Delta R.T. -0.01 min  
Lab File: BE095961.D  
Acq: 9 Apr 2018 9:36

Tgt Ion:178 Resp: 7197  
Ion Ratio Lower Upper  
178 100  
179 16.3 18.1 27.1#  
176 19.4 14.7 22.1





#15

Fluoranthene

Concen: 0.400 ng/ul

RT: 19.69 min Scan# 3247

Delta R.T. -0.00 min

Lab File: BE095961.D

Acq: 9 Apr 2018 9:36

Instrument :

BNA\_E

ClientSampleId :

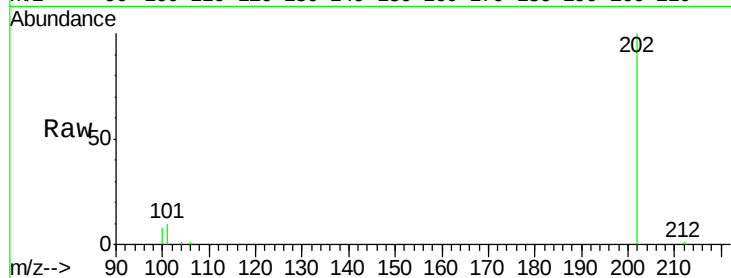
Tot Ion:202 Resp: 9953

Ion Ratio Lower Upper

202 100

101 9.9 0.0 30.3

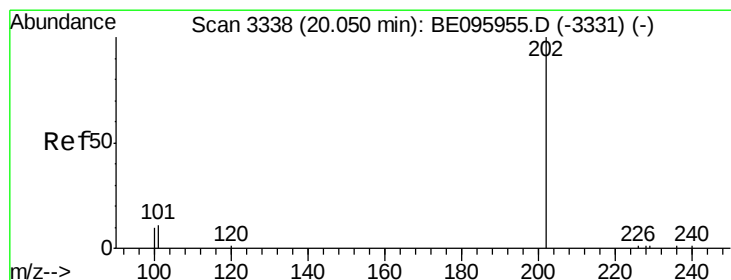
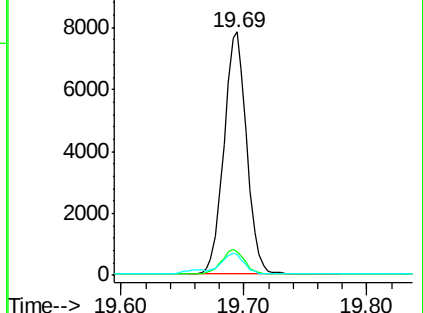
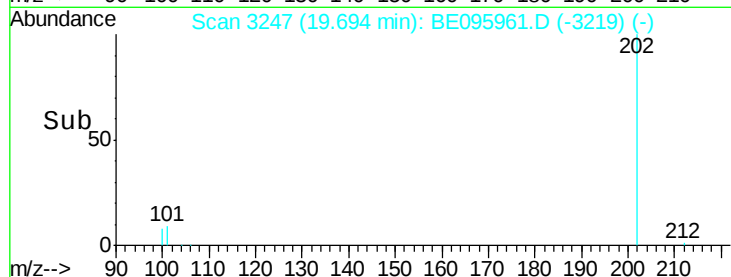
100 8.4 0.0 39.5



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



#17

Pyrene

Concen: 0.444 ng/ul

RT: 20.05 min Scan# 3338

Delta R.T. -0.00 min

Lab File: BE095961.D

Acq: 9 Apr 2018 9:36

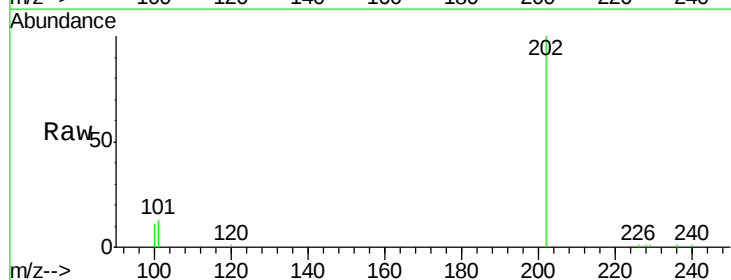
Tgt Ion:202 Resp: 10885

Ion Ratio Lower Upper

202 100

101 13.1 18.2 27.4#

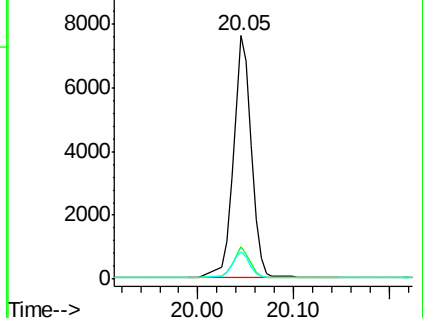
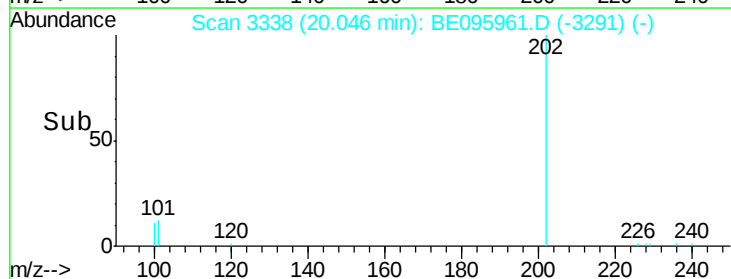
100 11.4 15.6 23.4#

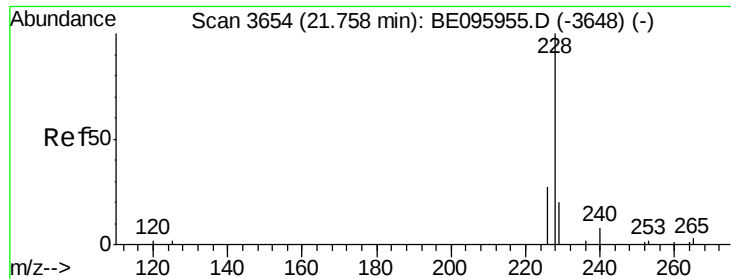


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): BE





#18

Benzo(a)anthracene

Concen: 0.438 ng/ul

RT: 21.76 min Scan# 3655

Delta R.T. -0.00 min

Lab File: BE095961.D

Acq: 9 Apr 2018 9:36

Instrument :

BNA\_E

ClientSampled :

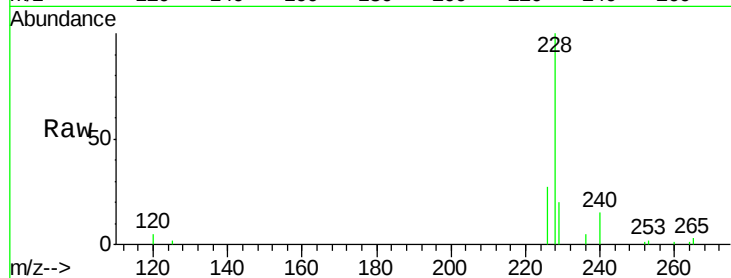
Tot Ion:228 Resp: 12776

Ion Ratio Lower Upper

228 100

229 20.2 22.8 34.2#

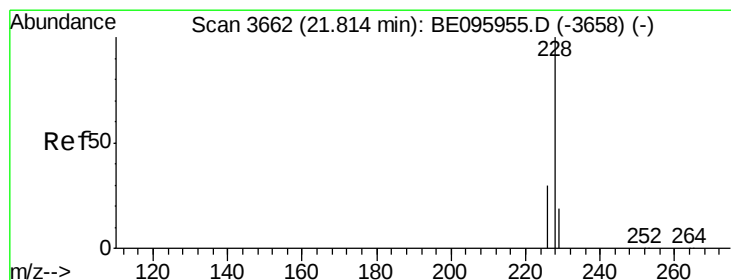
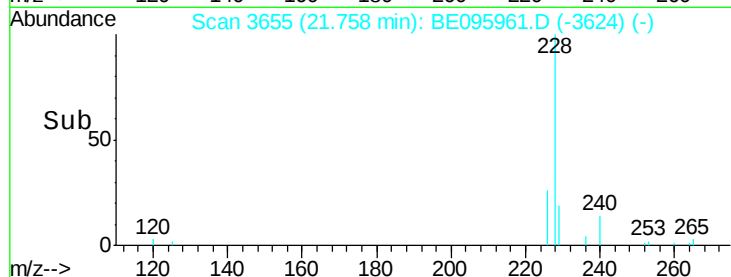
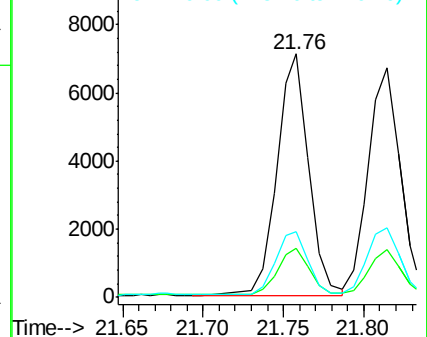
226 26.9 17.0 25.6#



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: 0.445 ng/ul

RT: 21.81 min Scan# 3663

Delta R.T. -0.00 min

Lab File: BE095961.D

Acq: 9 Apr 2018 9:36

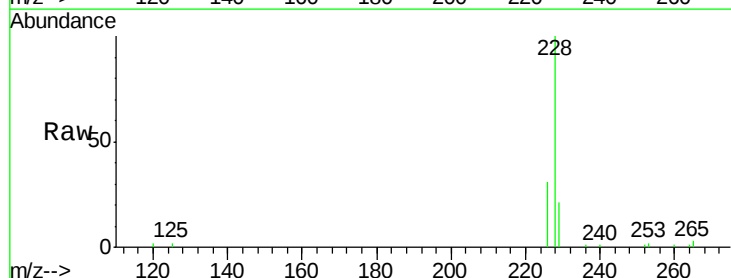
Tgt Ion:228 Resp: 9323

Ion Ratio Lower Upper

228 100

226 30.5 23.4 35.0

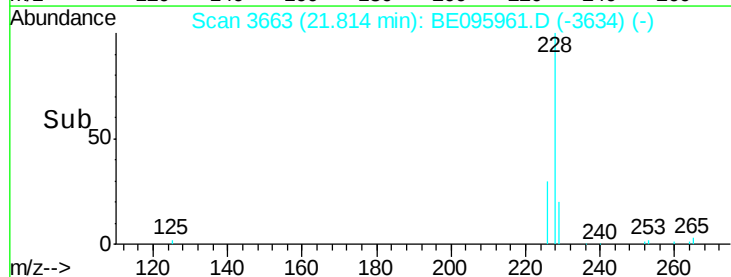
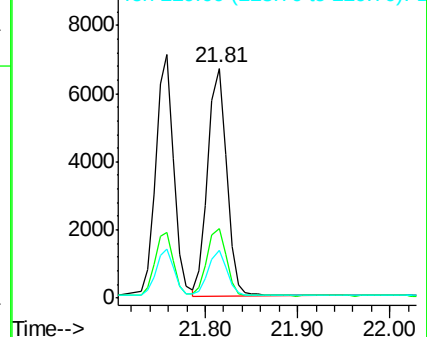
229 20.6 17.7 26.5

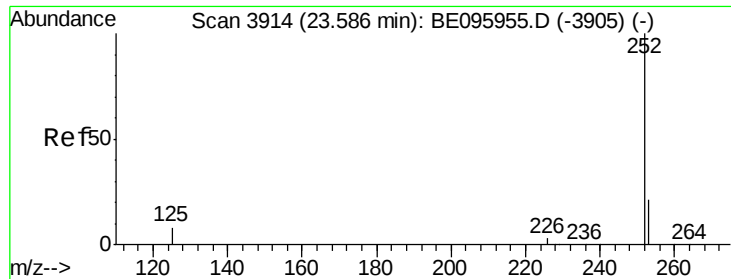


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Benzo(b)fluoranthene

Concen: 0.409 ng/ul

RT: 23.58 min Scan# 3914

Delta R.T. -0.01 min

Lab File: BE095961.D

Acq: 9 Apr 2018 9:36

Instrument :

BNA\_E

ClientSampleId :

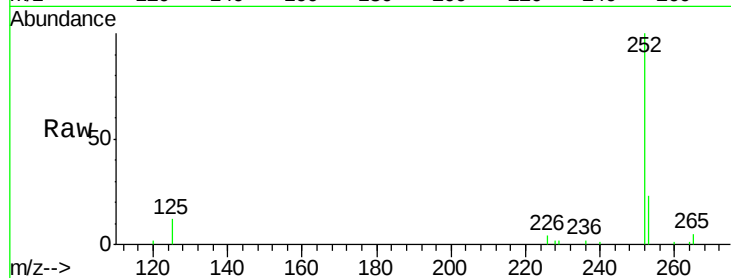
Tot Ion:252 Resp: 9062

Ion Ratio Lower Upper

252 100

253 23.0 0.0 64.2

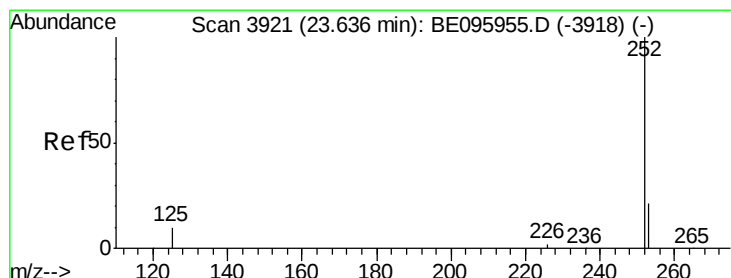
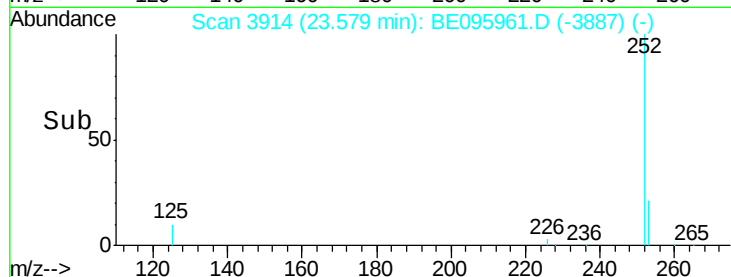
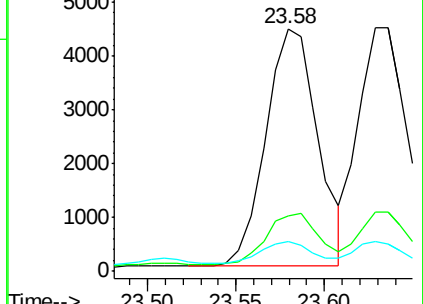
125 12.4 0.0 35.0



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: 0.393 ng/ul

RT: 23.63 min Scan# 3921

Delta R.T. -0.01 min

Lab File: BE095961.D

Acq: 9 Apr 2018 9:36

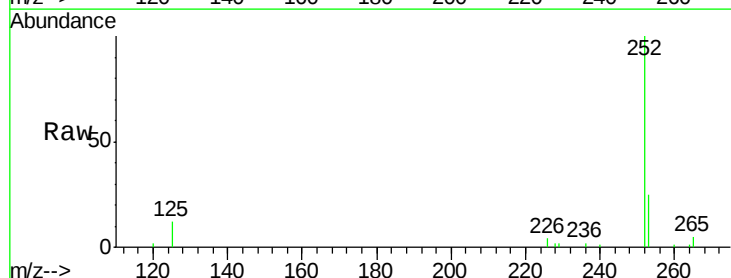
Tgt Ion:252 Resp: 8675

Ion Ratio Lower Upper

252 100

253 24.5 24.5 36.7

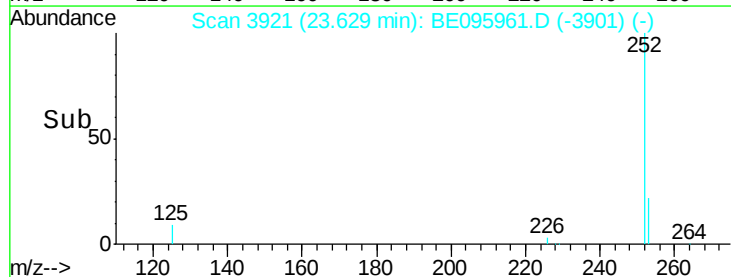
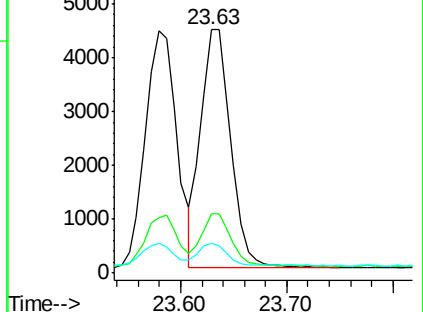
125 12.4 13.7 20.5#

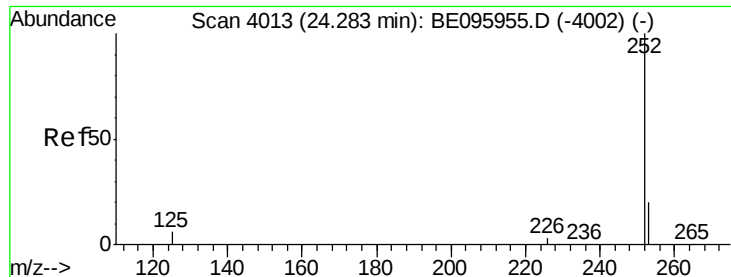


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 0.397 ng/ul

RT: 24.28 min Scan# 4013

Delta R.T. -0.00 min

Lab File: BE095961.D

Acq: 9 Apr 2018 9:36

Instrument :

BNA\_E

ClientSampled :

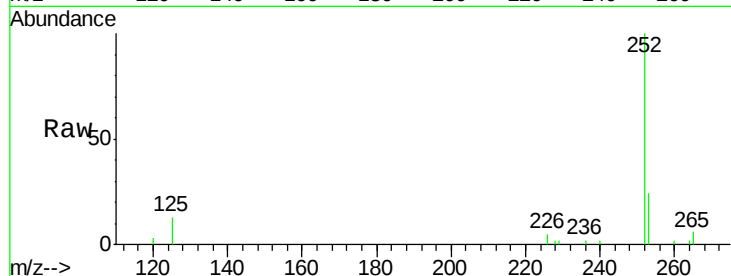
Tot Ion:252 Resp: 8504

Ion Ratio Lower Upper

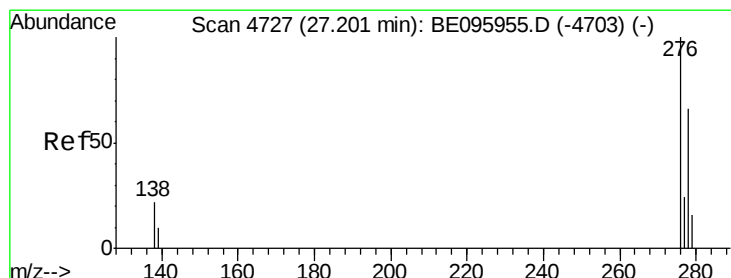
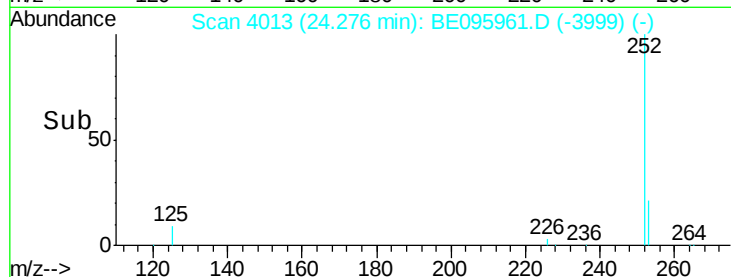
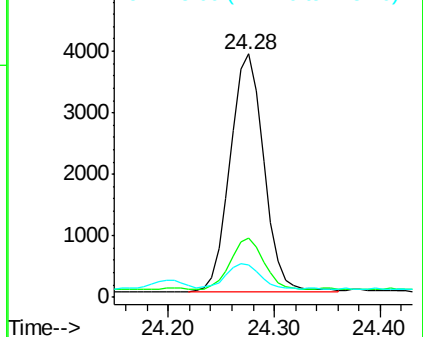
252 100

253 24.3 28.5 42.7#

125 13.2 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: 0.395 ng/ul

RT: 27.19 min Scan# 4726

Delta R.T. -0.01 min

Lab File: BE095961.D

Acq: 9 Apr 2018 9:36

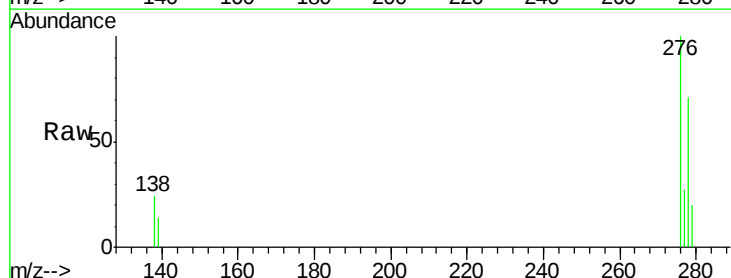
Tgt Ion:276 Resp: 9397

Ion Ratio Lower Upper

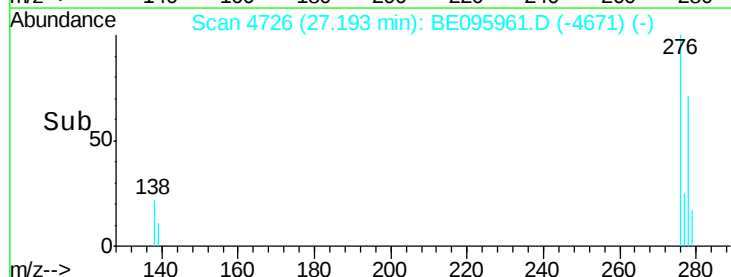
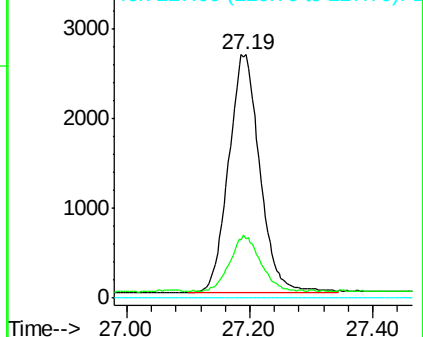
276 100

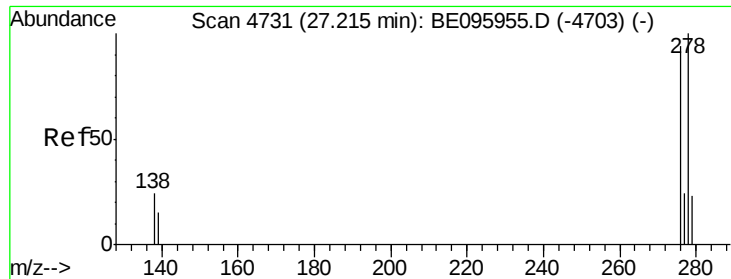
138 23.0 28.0 42.0#

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



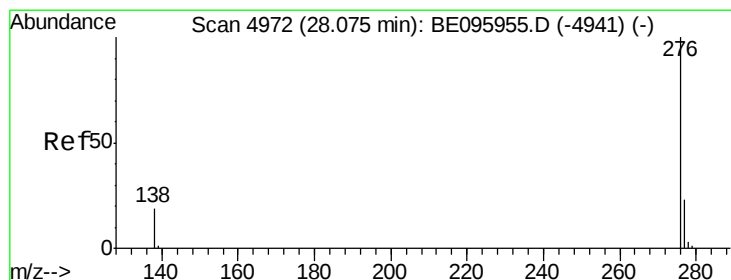
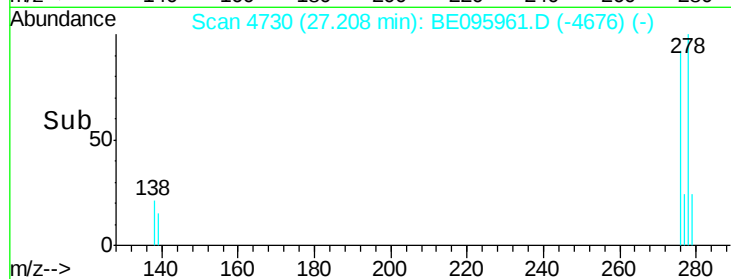
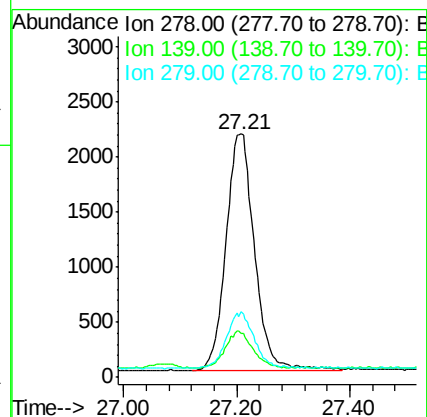
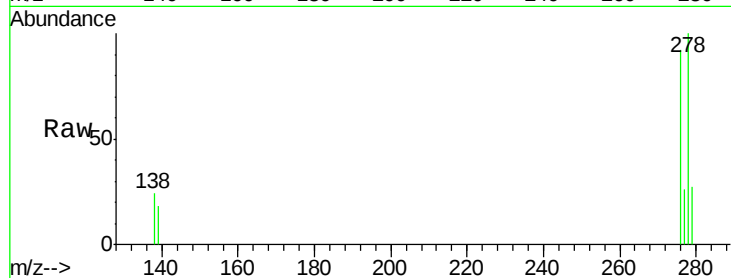


#25  
Dibenzo(a,h)anthracene  
Concen: 0.395 ng/ul  
RT: 27.21 min Scan# 4730  
Delta R.T. -0.01 min  
Lab File: BE095961.D  
Acq: 9 Apr 2018 9:36

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:278 Resp: 7560  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 18.3  | 17.4  | 26.0  |
| 279 | 27.1  | 25.9  | 38.9  |



#26  
Benzo(g,h,i)perylene  
Concen: 0.402 ng/ul  
RT: 28.06 min Scan# 4969  
Delta R.T. -0.01 min  
Lab File: BE095961.D  
Acq: 9 Apr 2018 9:36

Tgt Ion:276 Resp: 7982  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 23.2  | 21.8  | 32.8  |
| 277 | 27.0  | 20.5  | 30.7  |

