

Data Path : Z:\HPCHEM1\BNA E\DATA\BE102617\  
 Data File : BE094594.D  
 Acq On : 27 Oct 2017 14:00  
 Operator : SJ/JU  
 Sample : I5719-12 5X  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Oct 27 14:45:38 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE102517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 27 04:05:19 2017  
 Response via : Initial Calibration

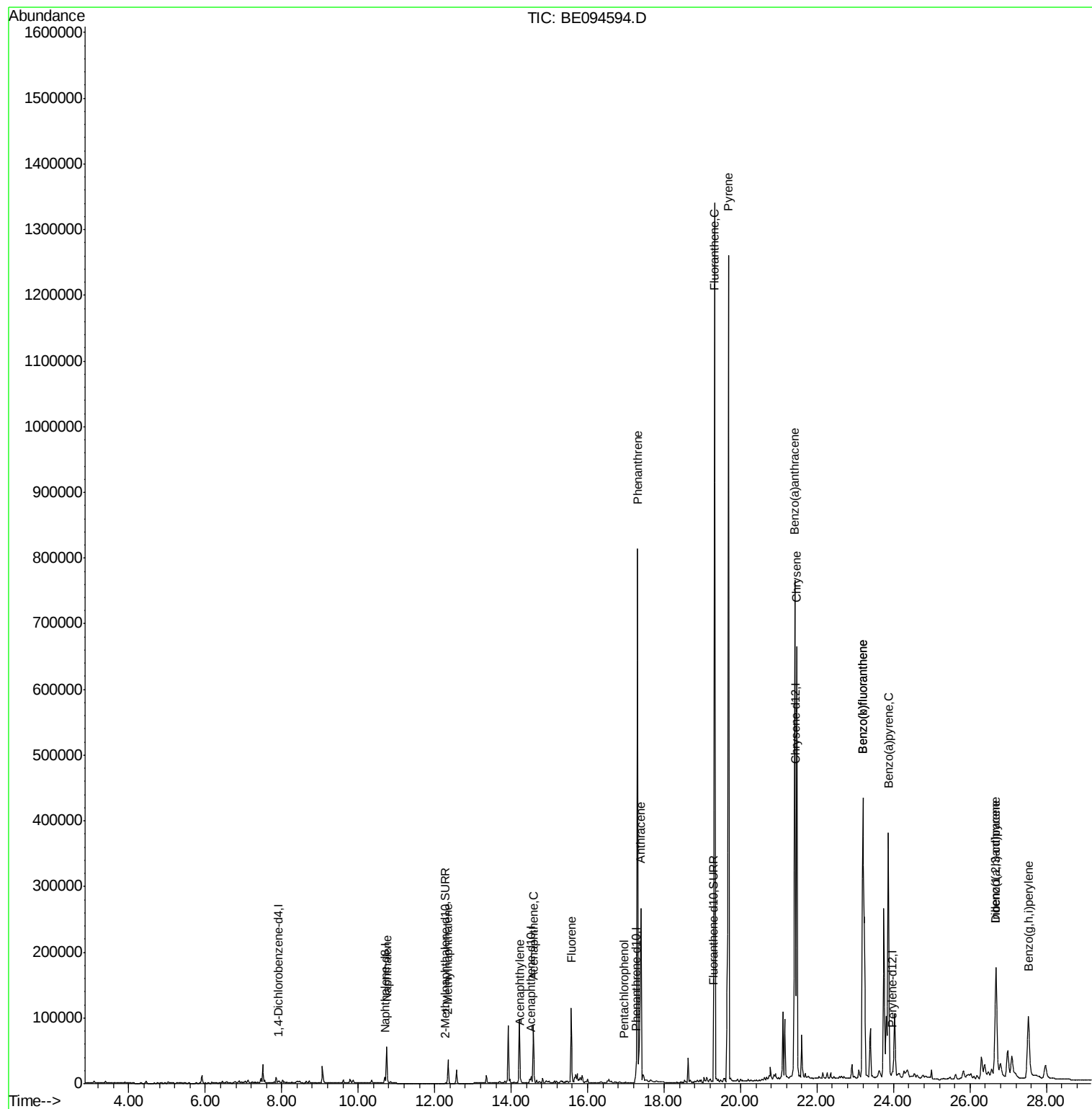
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.91  | 152  | 1788     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.70 | 136  | 10034    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.52 | 164  | 5910     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.26 | 188  | 12401    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.44 | 240  | 12232    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.97 | 264  | 12466    | 0.40   | ng/ul  | 0.01     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.28 | 152  | 962      | 0.06   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.29 | 212  | 2046     | 0.06   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.74 | 128  | 87923    | 3.584  | ng/ul# | 91       |
| 5) 2-Methylnaphthalene      | 12.35 | 142  | 31580    | 1.840  | ng/ul  | 98       |
| 7) Acenaphthylene           | 14.24 | 152  | 4269     | 0.160  | ng/ul# | 76       |
| 8) Acenaphthene             | 14.58 | 153  | 52416    | 2.729  | ng/ul  | 98       |
| 9) Fluorene                 | 15.57 | 166  | 76077    | 3.527  | ng/ul# | 92       |
| 11) Pentachlorophenol       | 16.96 | 266  | 15       | 0.024  | ng/ul# | 20       |
| 12) Phenanthrene            | 17.31 | 178  | 1172443  | 35.794 | ng/ul# | 92       |
| 13) Anthracene              | 17.40 | 178  | 326451   | 10.099 | ng/ul# | 91       |
| 15) Fluoranthene            | 19.32 | 202  | 1536630  | 40.578 | ng/ul  | 84       |
| 17) Pyrene                  | 19.69 | 202  | 1419775  | 37.546 | ng/ul# | 79       |
| 18) Benzo(a)anthracene      | 21.42 | 228  | 741059   | 21.192 | ng/ul# | 87       |
| 19) Chrysene                | 21.47 | 228  | 674508   | 18.662 | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 23.20 | 252  | 1116393  | 31.837 | ng/ul  | 84       |
| 22) Benzo(k)fluoranthene    | 23.20 | 252  | 1116359  | 29.708 | ng/ul# | 86       |
| 23) Benzo(a)pyrene          | 23.86 | 252  | 590997   | 16.861 | ng/ul# | 78       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.69 | 276  | 355835   | 9.811  | ng/ul# | 74       |
| 25) Dibenzo(a,h)anthracene  | 26.68 | 278  | 89938    | 2.943  | ng/ul  | 95       |
| 26) Benzo(g,h,i)perylene    | 27.53 | 276  | 270917   | 9.302  | ng/ul  | 96       |

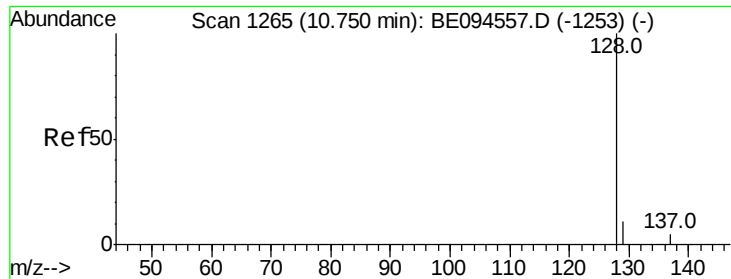
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_E  
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#3

Naphthalene

Concen: 3.584 ng/ul

RT: 10.74 min Scan# 1264

Delta R.T. -0.01 min

Lab File: BE094594.D

Acq: 27 Oct 2017 14:00

Instrument :

BNA\_E

ClientSampleId :

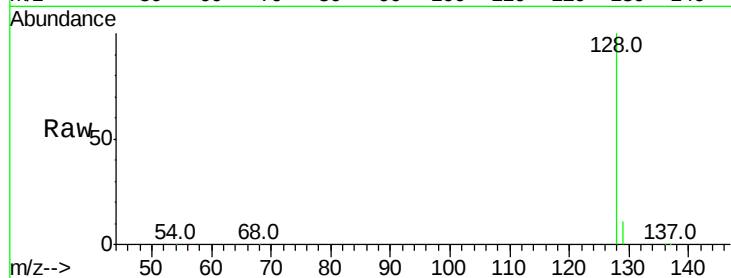
Tot Ion:128 Resp: 87923

Ion Ratio Lower Upper

128 100

129 11.4 11.3 16.9

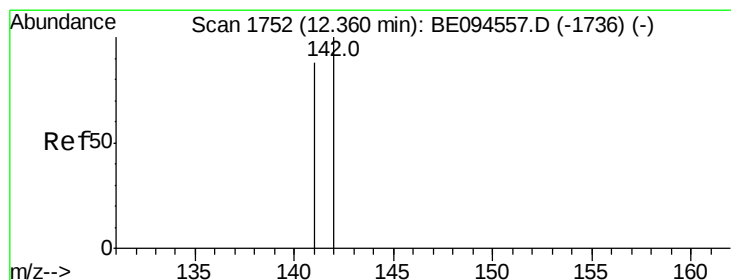
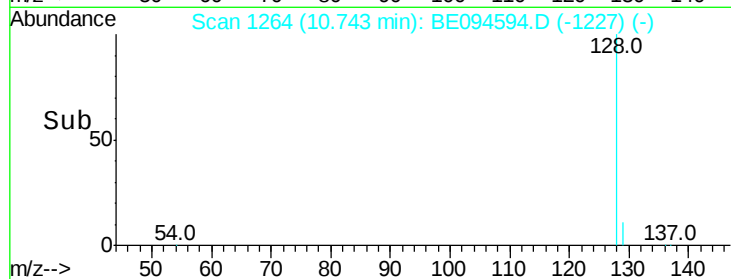
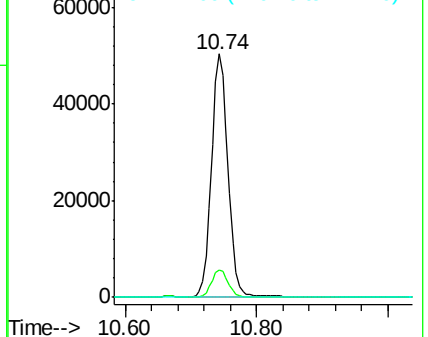
127 0.0 4.0 6.0#



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: 1.840 ng/ul

RT: 12.35 min Scan# 1749

Delta R.T. -0.01 min

Lab File: BE094594.D

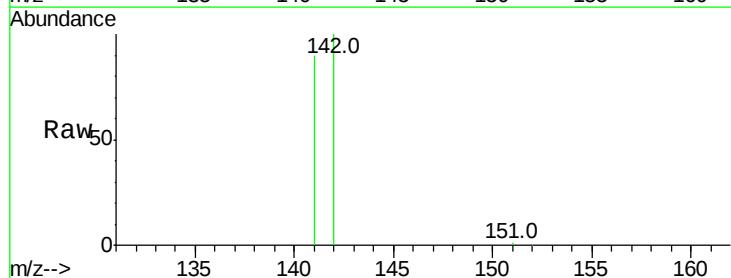
Acq: 27 Oct 2017 14:00

Tgt Ion:142 Resp: 31580

Ion Ratio Lower Upper

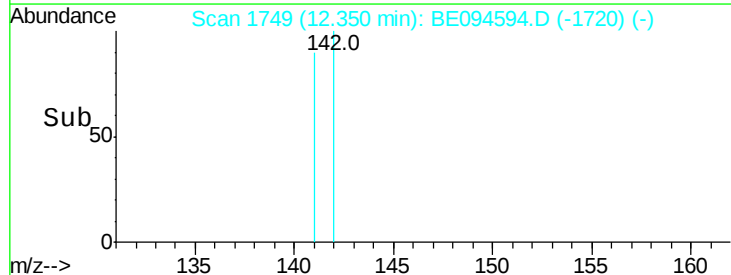
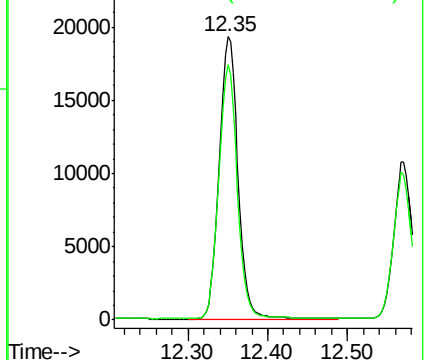
142 100

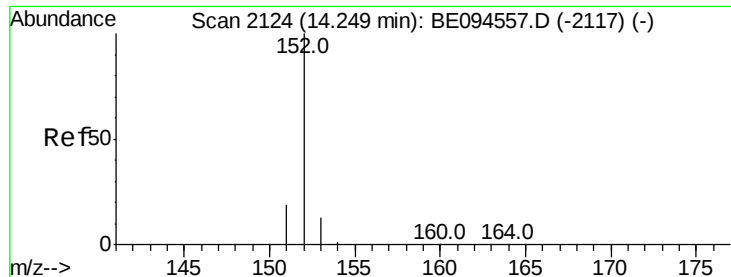
141 88.7 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.160 ng/ul

RT: 14.24 min Scan# 2124

Delta R.T. -0.01 min

Lab File: BE094594.D

Acq: 27 Oct 2017 14:00

Instrument :

BNA\_E

ClientSampleId :

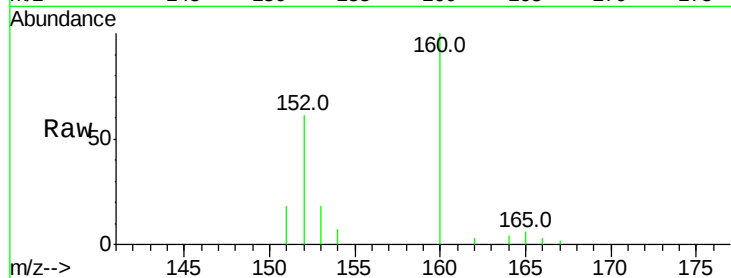
Tot Ion:152 Resp: 4269

Ion Ratio Lower Upper

152 100

151 29.4 17.1 25.7#

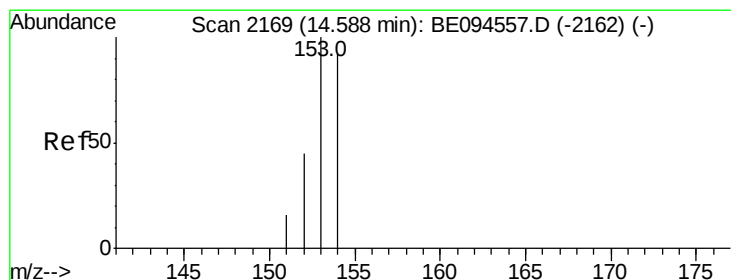
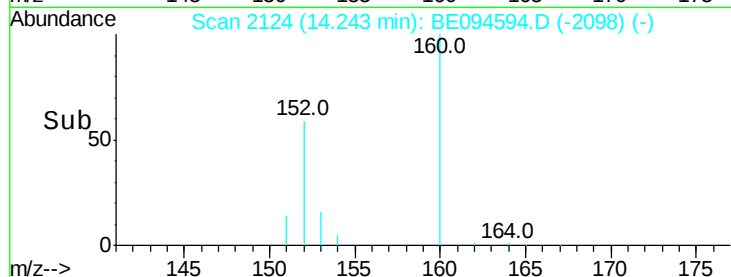
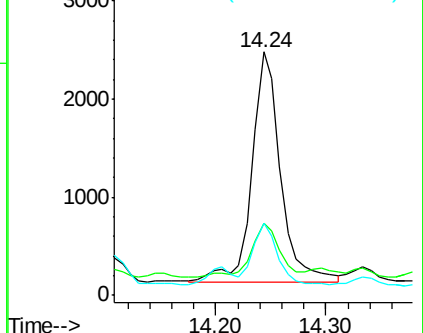
153 29.8 12.8 19.2#



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: 2.729 ng/ul

RT: 14.58 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BE094594.D

Acq: 27 Oct 2017 14:00

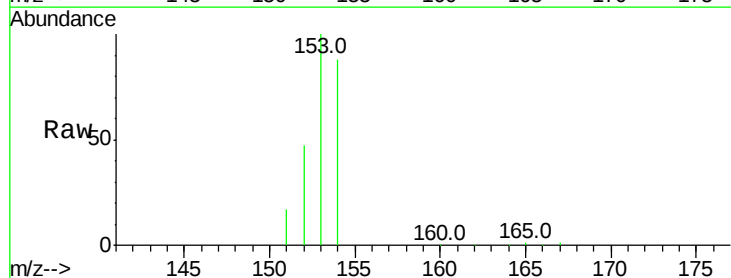
Tgt Ion:153 Resp: 52416

Ion Ratio Lower Upper

153 100

152 46.6 36.0 54.0

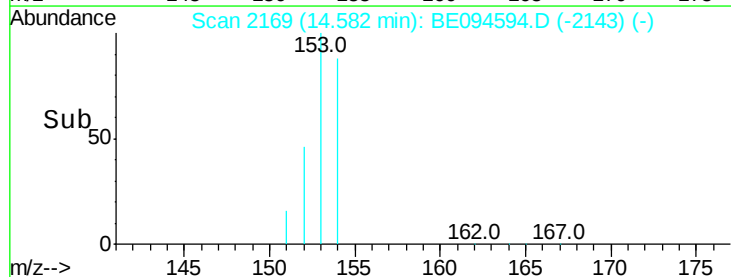
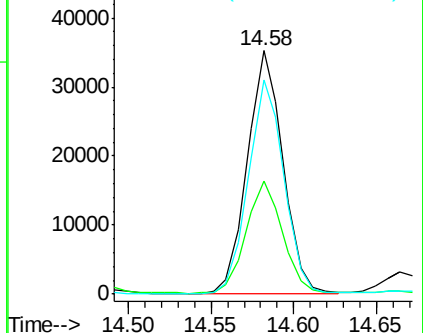
154 87.8 72.0 108.0

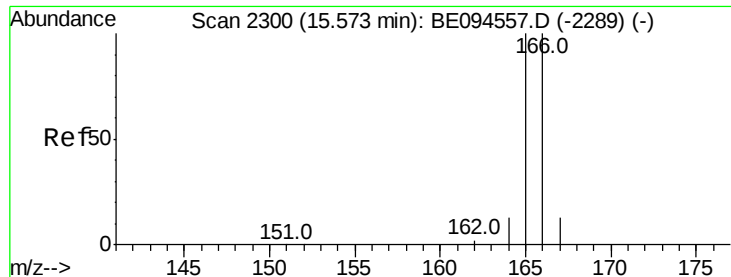


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

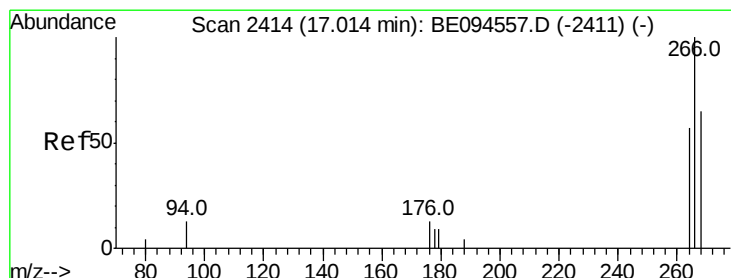
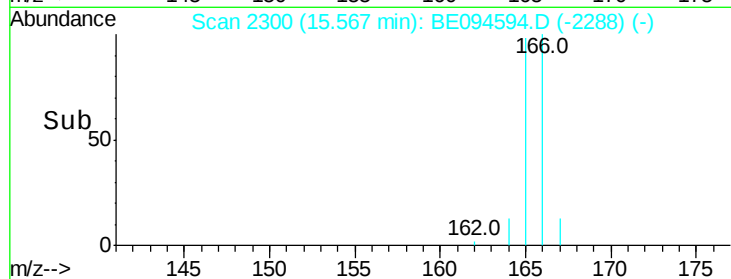
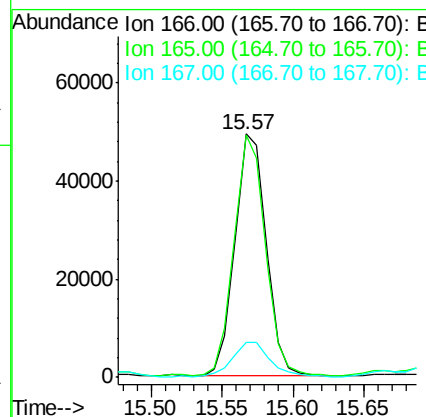
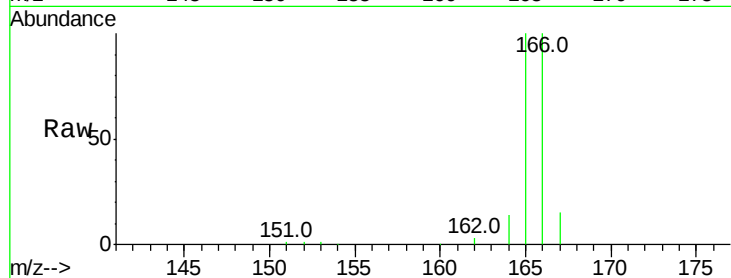




#9  
**Fluorene**  
 Concen: 3.527 ng/ul  
 RT: 15.57 min Scan# 2300  
 Delta R.T. -0.01 min  
 Lab File: BE094594.D  
 Acq: 27 Oct 2017 14:00

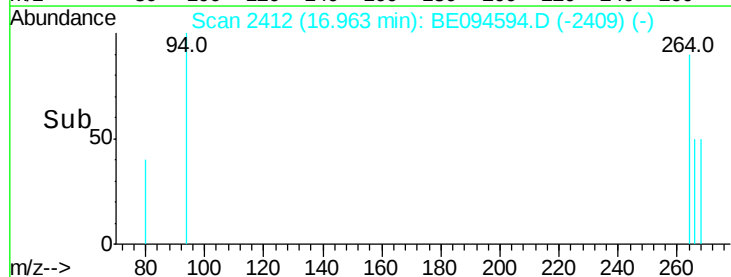
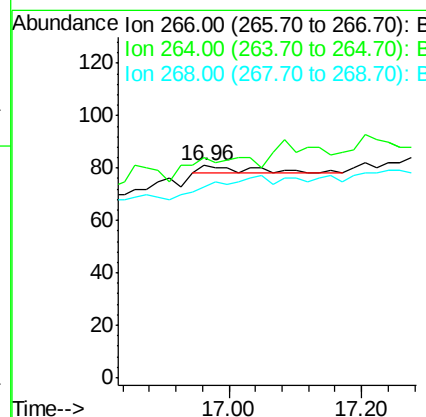
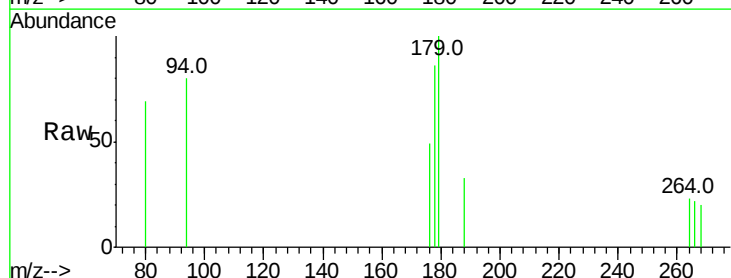
Instrument :  
 BNA\_E  
 ClientSampleId :

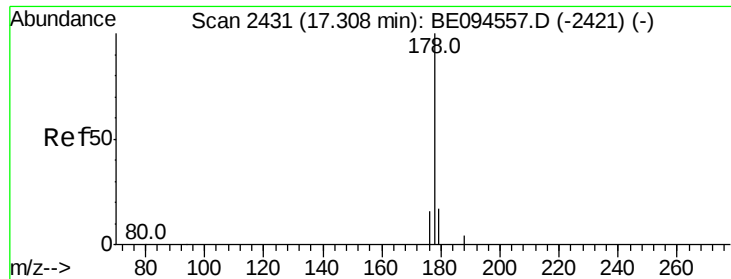
Tot Ion:166 Resp: 76077  
 Ion Ratio Lower Upper  
 166 100  
 165 99.5 73.4 110.2  
 167 14.6 14.6 22.0#



#11  
**Pentachlorophenol**  
 Concen: 0.024 ng/ul  
 RT: 16.96 min Scan# 2412  
 Delta R.T. -0.05 min  
 Lab File: BE094594.D  
 Acq: 27 Oct 2017 14:00

Tgt Ion:266 Resp: 15  
 Ion Ratio Lower Upper  
 266 100  
 264 120.0 47.9 71.9#  
 268 0.0 49.8 74.8#





#12

Phenanthrene

Concen: 35.794 ng/ul

RT: 17.31 min Scan# 2432

Delta R.T. 0.00 min

Lab File: BE094594.D

Acq: 27 Oct 2017 14:00

Instrument :

BNA\_E

ClientSampleId :

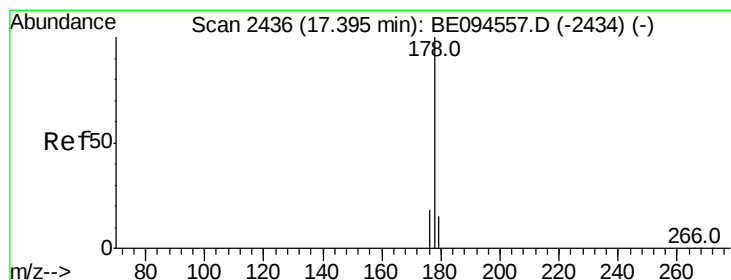
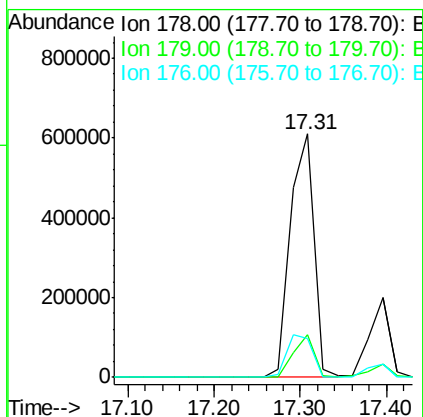
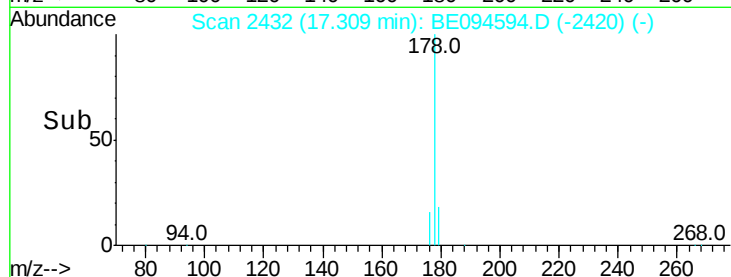
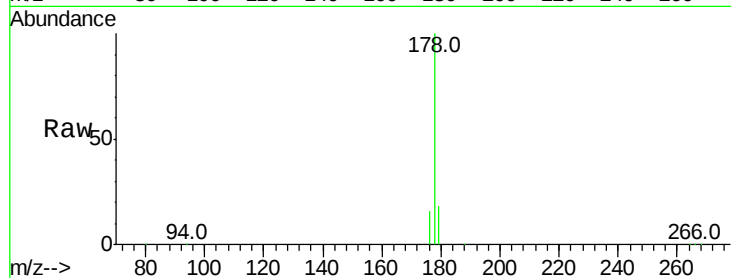
Tot Ion:178 Resp: 1172443

Ion Ratio Lower Upper

178 100

179 17.6 18.4 27.6#

176 15.7 13.6 20.4



#13

Anthracene

Concen: 10.099 ng/ul

RT: 17.40 min Scan# 2437

Delta R.T. 0.00 min

Lab File: BE094594.D

Acq: 27 Oct 2017 14:00

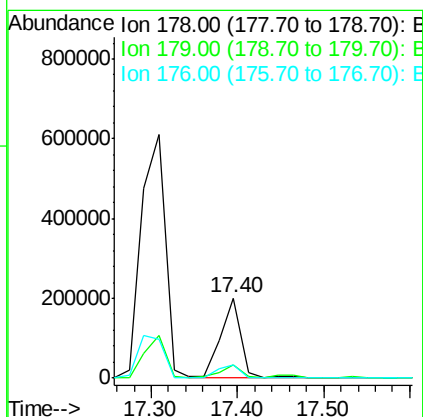
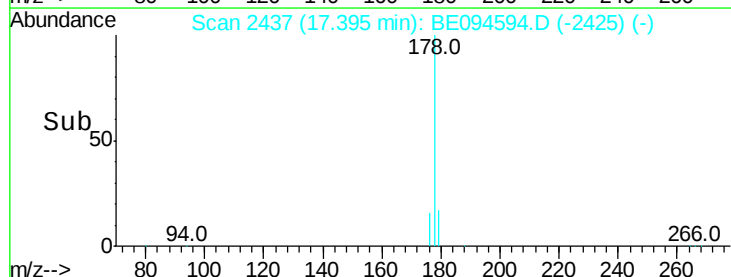
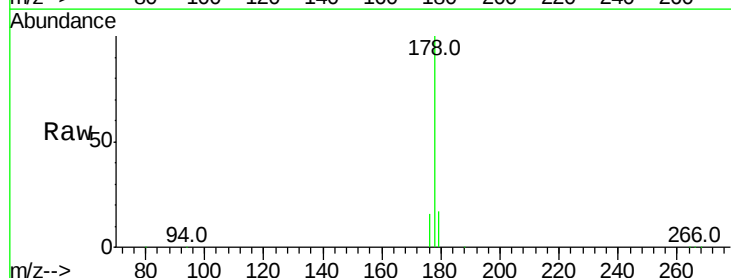
Tgt Ion:178 Resp: 326451

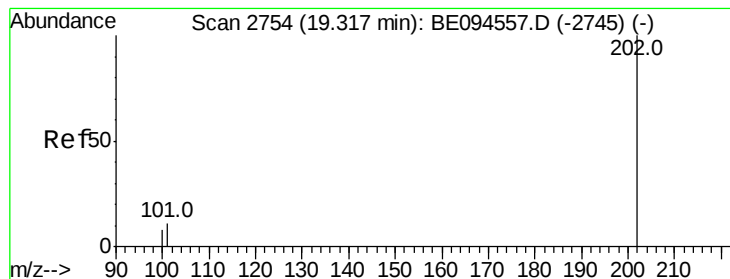
Ion Ratio Lower Upper

178 100

179 16.8 18.1 27.1#

176 15.8 14.7 22.1





#15

Fluoranthene

Concen: 40.578 ng/ul

RT: 19.32 min Scan# 2755

Delta R.T. 0.00 min

Lab File: BE094594.D

Acq: 27 Oct 2017 14:00

Instrument :

BNA\_E

ClientSampleId :

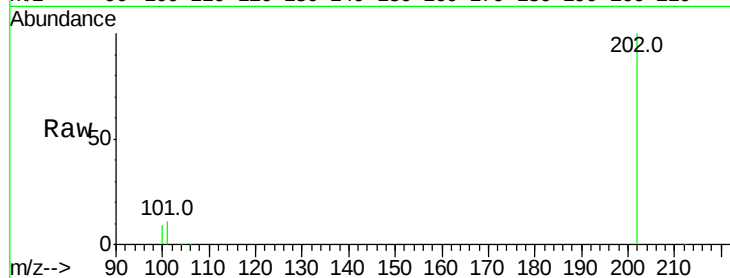
Tot Ion:202 Resp: 1536630

Ion Ratio Lower Upper

202 100

101 11.1 0.0 30.3

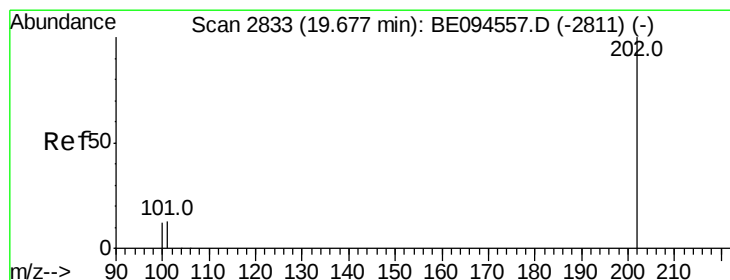
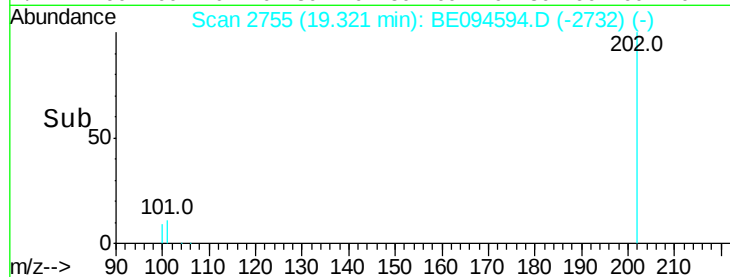
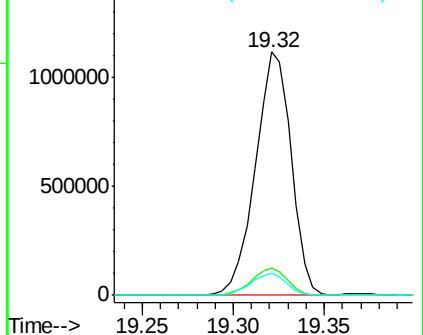
100 8.9 0.0 39.5



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: 37.546 ng/ul

RT: 19.69 min Scan# 2835

Delta R.T. 0.01 min

Lab File: BE094594.D

Acq: 27 Oct 2017 14:00

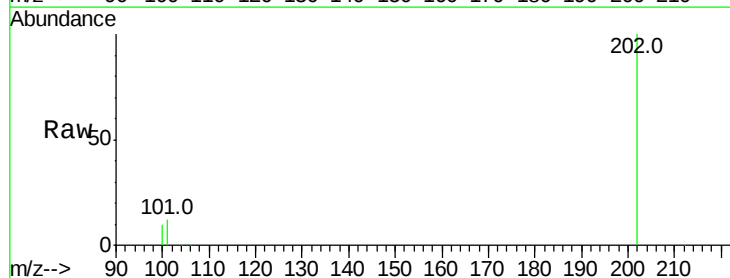
Tgt Ion:202 Resp: 1419775

Ion Ratio Lower Upper

202 100

101 12.1 18.2 27.4#

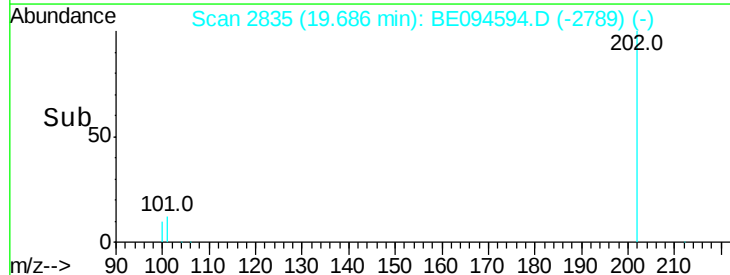
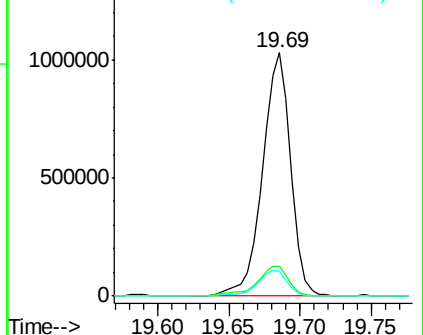
100 10.2 15.6 23.4#

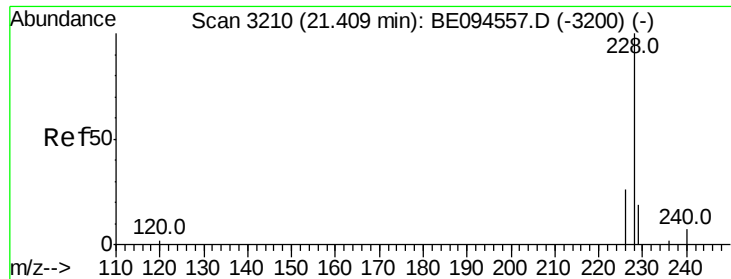


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): BE





#18

Benzo(a)anthracene

Concen: 21.192 ng/ul

RT: 21.42 min Scan# 3212

Delta R.T. 0.01 min

Lab File: BE094594.D

Acq: 27 Oct 2017 14:00

Instrument :

BNA\_E

ClientSampleId :

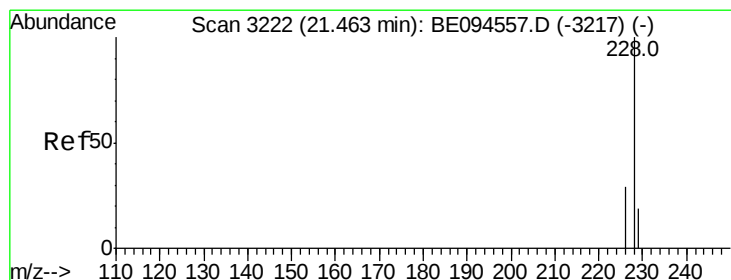
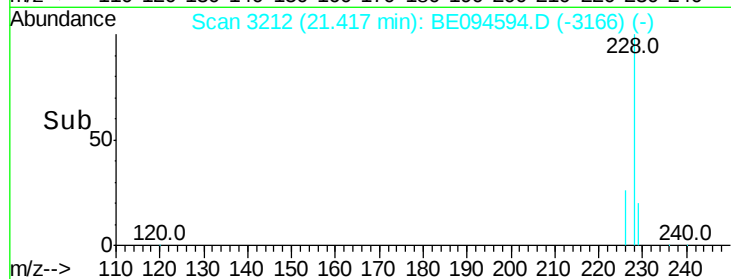
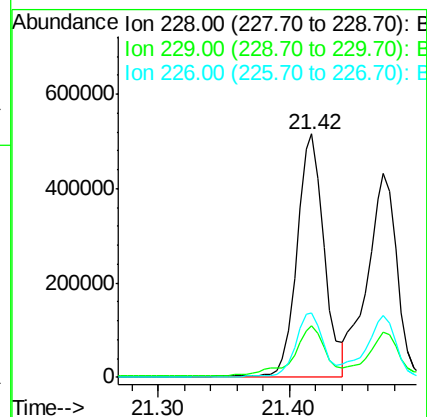
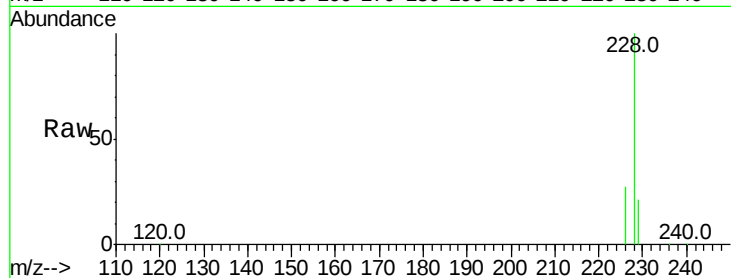
Tot Ion:228 Resp: 741059

Ion Ratio Lower Upper

228 100

229 21.1 22.8 34.2#

226 26.6 17.0 25.6#



#19

Chrysene

Concen: 18.662 ng/ul

RT: 21.47 min Scan# 3224

Delta R.T. 0.01 min

Lab File: BE094594.D

Acq: 27 Oct 2017 14:00

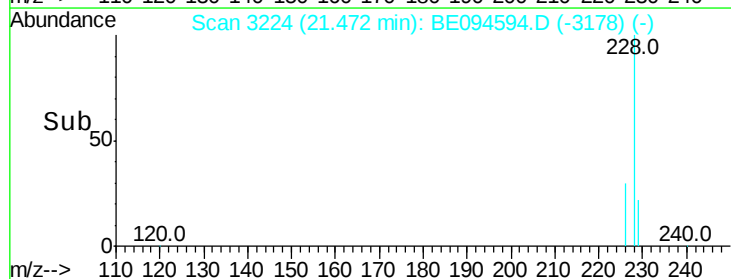
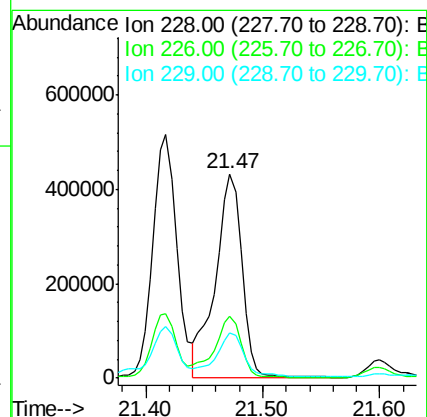
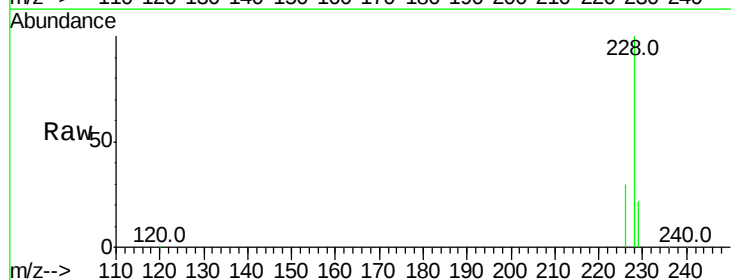
Tgt Ion:228 Resp: 674508

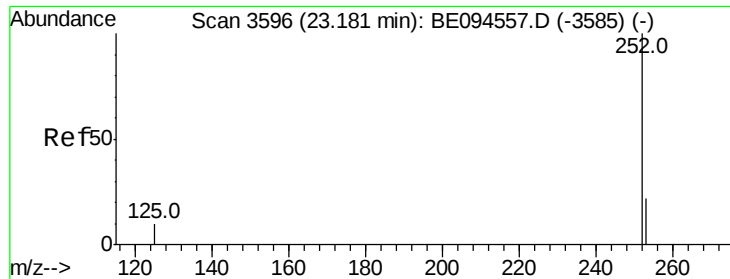
Ion Ratio Lower Upper

228 100

226 30.4 23.4 35.0

229 22.2 17.7 26.5

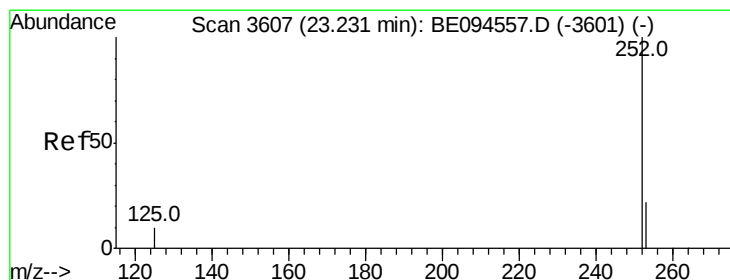
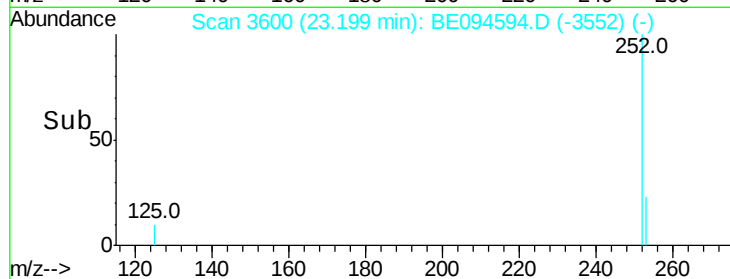
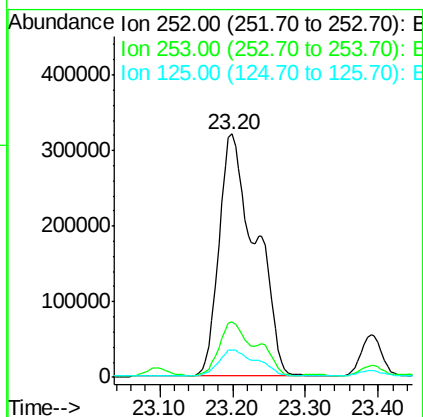
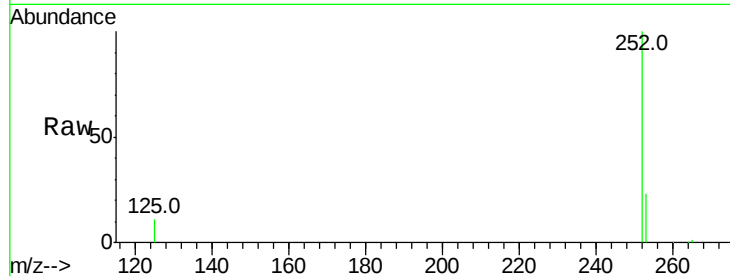




#21  
Benzo(b)fluoranthene  
Concen: 31.837 ng/ul  
RT: 23.20 min Scan# 3600  
Delta R.T. 0.02 min  
Lab File: BE094594.D  
Acq: 27 Oct 2017 14:00

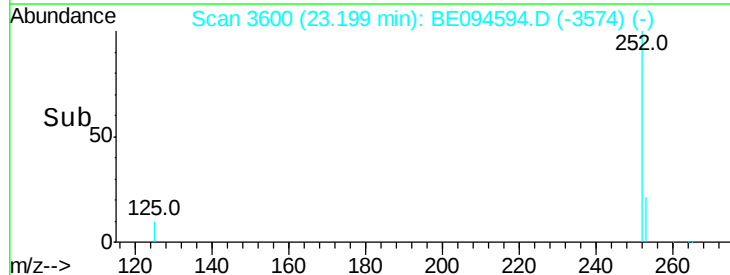
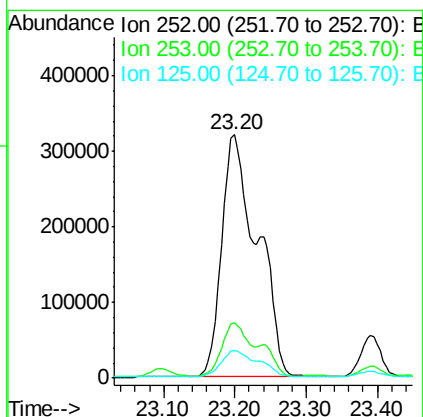
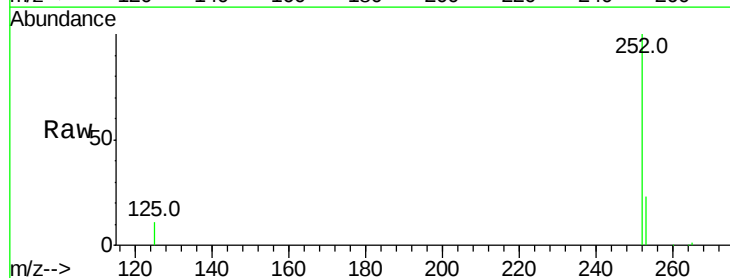
Instrument :  
BNA\_E  
ClientSampleId :

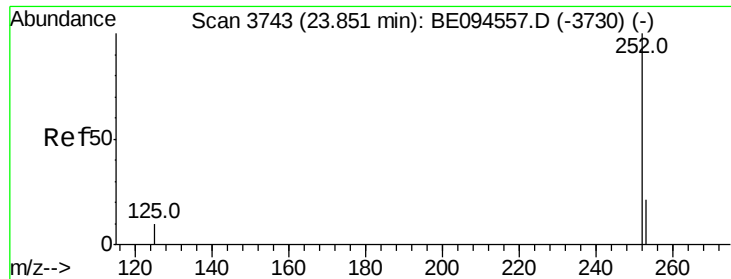
Tot Ion:252 Resp: 1116393  
Ion Ratio Lower Upper  
252 100  
253 23.0 0.0 64.2  
125 11.1 0.0 35.0



#22  
Benzo(k)fluoranthene  
Concen: 29.708 ng/ul  
RT: 23.20 min Scan# 3600  
Delta R.T. -0.03 min  
Lab File: BE094594.D  
Acq: 27 Oct 2017 14:00

Tgt Ion:252 Resp: 1116359  
Ion Ratio Lower Upper  
252 100  
253 23.0 24.5 36.7#  
125 11.1 13.7 20.5#





#23

Benzo(a)pyrene

Concen: 16.861 ng/ul

RT: 23.86 min Scan# 3746

Delta R.T. 0.01 min

Lab File: BE094594.D

Acq: 27 Oct 2017 14:00

Instrument :

BNA\_E

ClientSampleId :

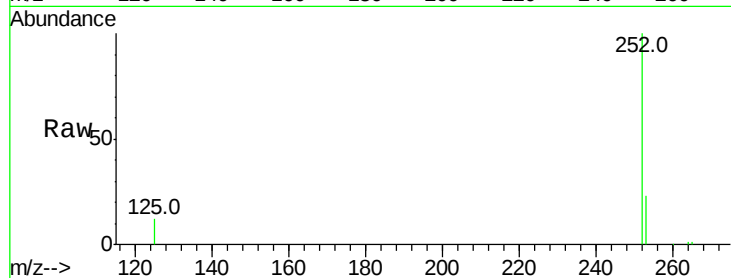
Tot Ion:252 Resp: 590997

Ion Ratio Lower Upper

252 100

253 22.8 28.5 42.7#

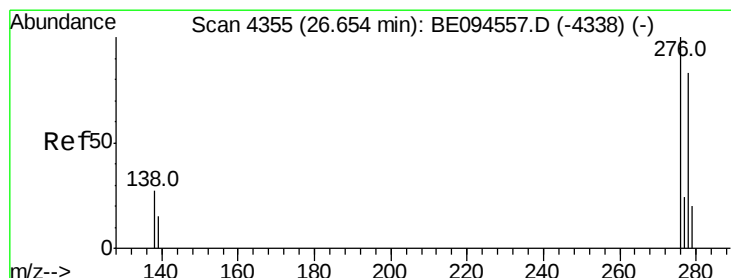
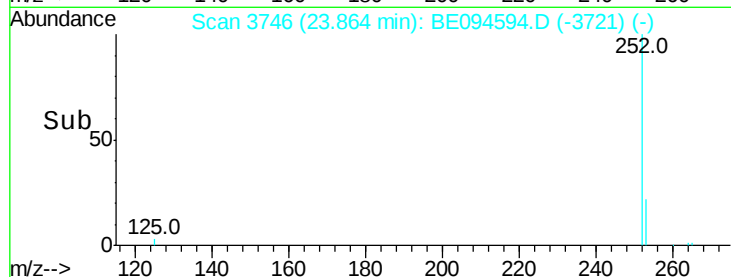
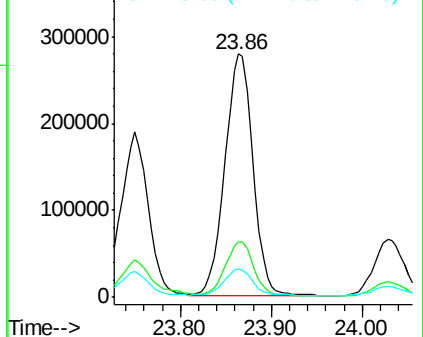
125 11.6 18.1 27.1#



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: 9.811 ng/ul

RT: 26.69 min Scan# 4362

Delta R.T. 0.03 min

Lab File: BE094594.D

Acq: 27 Oct 2017 14:00

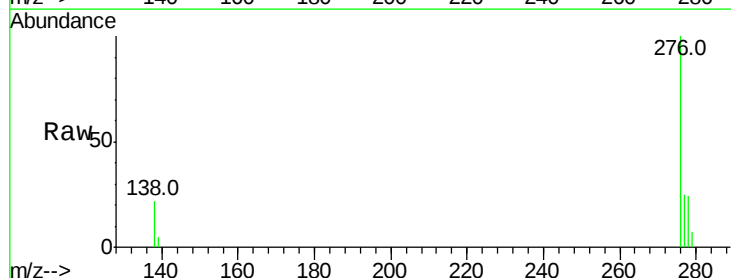
Tgt Ion:276 Resp: 355835

Ion Ratio Lower Upper

276 100

138 20.3 28.0 42.0#

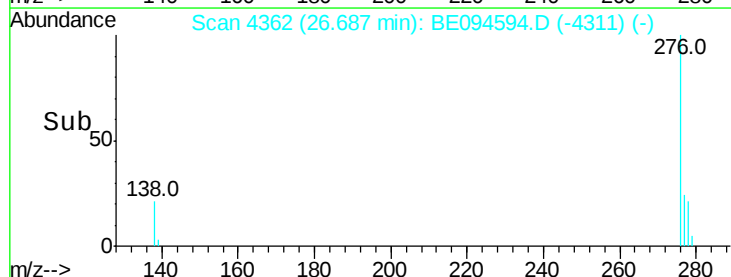
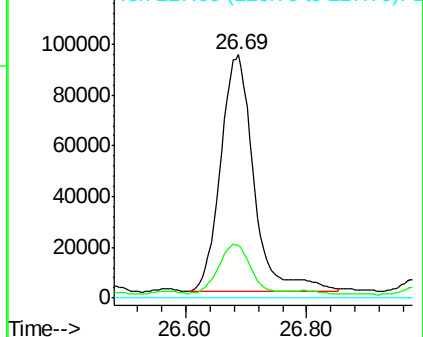
227 0.0 8.0 12.0#

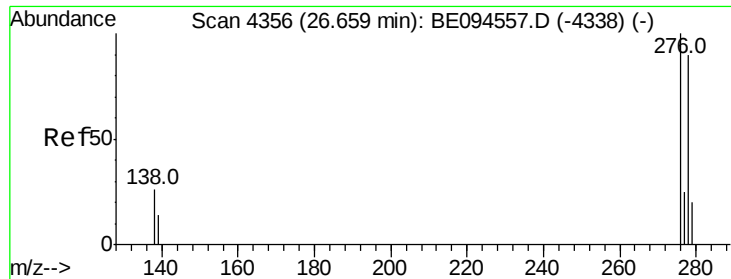


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E





#25

Dibenzo(a,h)anthracene

Concen: 2.943 ng/u1

RT: 26.68 min Scan# 4360

Delta R.T. 0.02 min

Lab File: BE094594.D

Acq: 27 Oct 2017 14:00

Instrument :

BNA\_E

ClientSampleId :

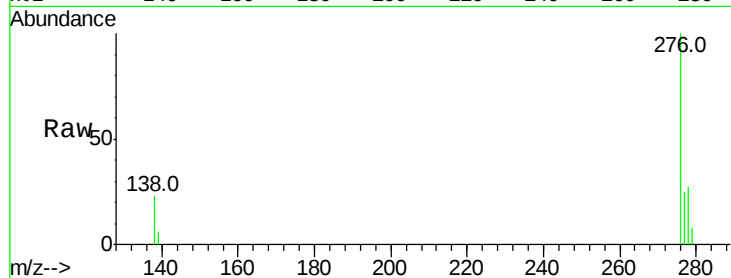
Tot Ion:278 Resp: 89938

Ion Ratio Lower Upper

278 100

139 21.1 17.4 26.0

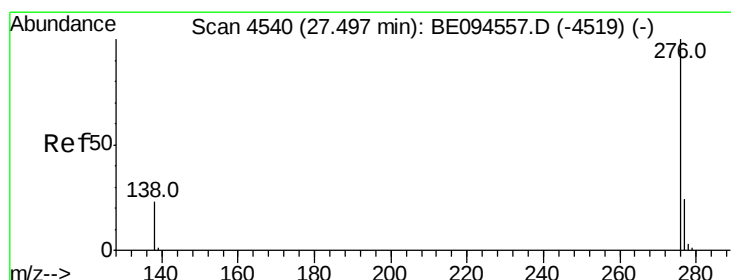
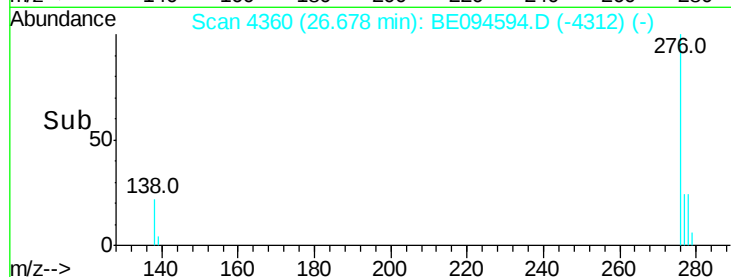
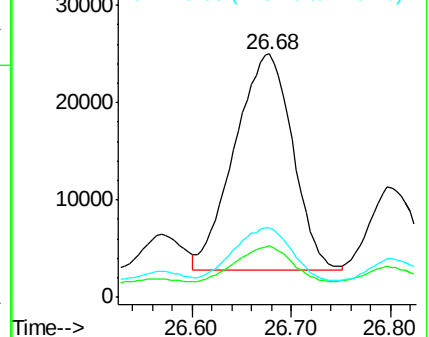
279 28.6 25.9 38.9



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(g,h,i)perylene

Concen: 9.302 ng/u1

RT: 27.53 min Scan# 4547

Delta R.T. 0.03 min

Lab File: BE094594.D

Acq: 27 Oct 2017 14:00

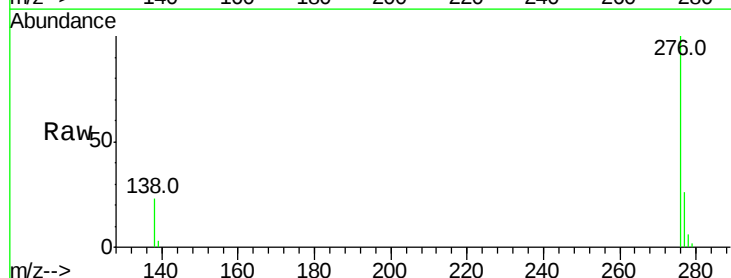
Tgt Ion:276 Resp: 270917

Ion Ratio Lower Upper

276 100

138 23.1 21.8 32.8

277 25.9 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

