

Data Path : Z:\HPCHEM1\BNA E\DATA\BE110317\  
 Data File : BE094732.D  
 Acq On : 4 Nov 2017 5:46  
 Operator : SJ/JU  
 Sample : I5933-01 5X  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 B-9(0-1) 101617

Quant Time: Nov 04 06:43:18 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE102517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Nov 04 06:43:16 2017  
 Response via : Initial Calibration

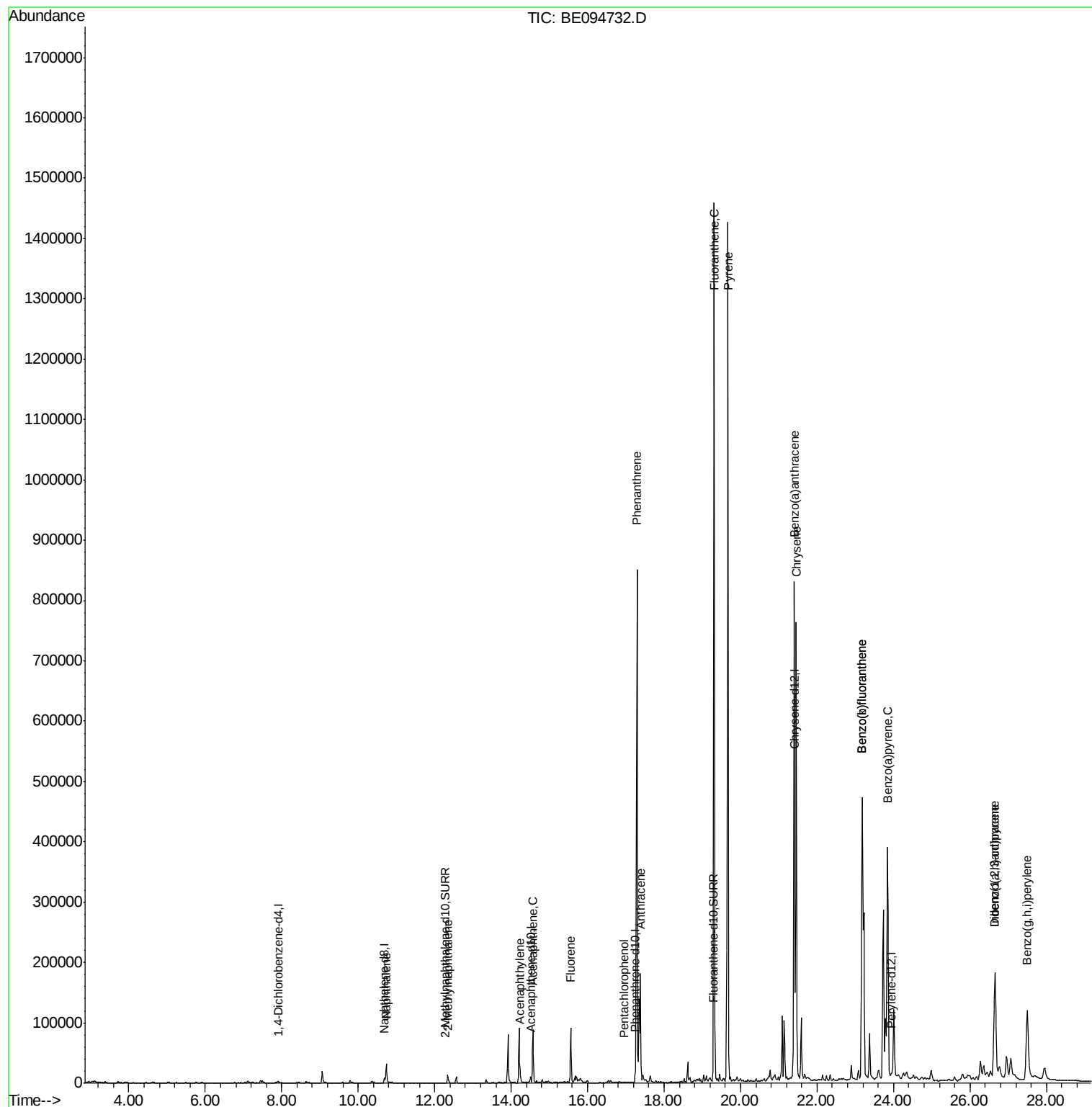
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.90  | 152  | 1706     | 0.40  | ng/ul  | -0.02    |
| 2) Naphthalene-d8           | 10.68 | 136  | 10046    | 0.40  | ng/ul  | -0.02    |
| 6) Acenaphthene-d10         | 14.51 | 164  | 5606     | 0.40  | ng/ul  | -0.02    |
| 10) Phenanthrene-d10        | 17.24 | 188  | 12276    | 0.40  | ng/ul  | -0.02    |
| 16) Chrysene-d12            | 21.42 | 240  | 11966    | 0.40  | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.95 | 264  | 11701    | 0.40  | ng/ul  | -0.02    |
| System Monitoring Compounds |       |      |          |       |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.27 | 152  | 756      | 0.05  | ng/ul  | -0.02    |
| 14) Fluoranthene-d10        | 19.27 | 212  | 2082     | 0.06  | ng/ul  | -0.01    |
| Target Compounds            |       |      |          |       | Ovalue |          |
| 3) Naphthalene              | 10.73 | 128  | 53505    | 2.18  | ng/ul# | 91       |
| 5) 2-Methylnaphthalene      | 12.34 | 142  | 12904    | 0.75  | ng/ul  | 97       |
| 7) Acenaphthylene           | 14.24 | 152  | 24983    | 0.99  | ng/ul  | 97       |
| 8) Acenaphthene             | 14.57 | 153  | 56865    | 3.12  | ng/ul  | 97       |
| 9) Fluorene                 | 15.56 | 166  | 59858    | 2.93  | ng/ul# | 95       |
| 11) Pentachlorophenol       | 16.96 | 266  | 16       | 0.03  | ng/ul# | 20       |
| 12) Phenanthrene            | 17.29 | 178  | 1085176  | 33.47 | ng/ul# | 92       |
| 13) Anthracene              | 17.38 | 178  | 208924   | 6.53  | ng/ul# | 91       |
| 15) Fluoranthene            | 19.31 | 202  | 1720737  | 45.90 | ng/ul  | 83       |
| 17) Pyrene                  | 19.67 | 202  | 1590167  | 42.99 | ng/ul# | 80       |
| 18) Benzo(a)anthracene      | 21.40 | 228  | 786009   | 22.98 | ng/ul# | 87       |
| 19) Chrysene                | 21.46 | 228  | 769677   | 21.77 | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 23.18 | 252  | 1214339  | 36.89 | ng/ul  | 84       |
| 22) Benzo(k)fluoranthene    | 23.18 | 252  | 1214339  | 34.43 | ng/ul# | 86       |
| 23) Benzo(a)pyrene          | 23.85 | 252  | 639171   | 19.43 | ng/ul# | 78       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.66 | 276  | 381156   | 11.20 | ng/ul# | 75       |
| 25) Dibenzo(a,h)anthracene  | 26.65 | 278  | 86493    | 3.02  | ng/ul  | 94       |
| 26) Benzo(g,h,i)perylene    | 27.50 | 276  | 326661   | 11.95 | ng/ul  | 95       |

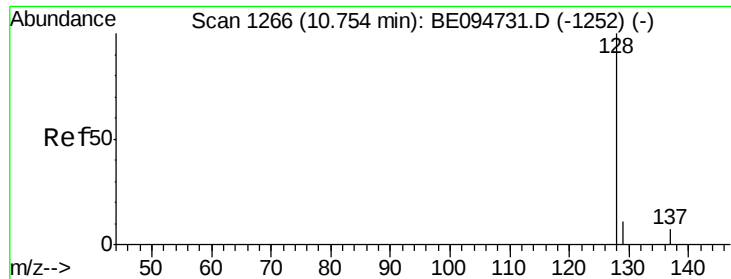
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Nov 04 06:43:16 2017  
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#3

Naphthalene

Concen: 2.18 ng/ul

RT: 10.73 min Scan# 1262

Delta R.T. -0.02 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

Instrument :

BNA\_E

ClientSampleId :

B-9(0-1) 101617

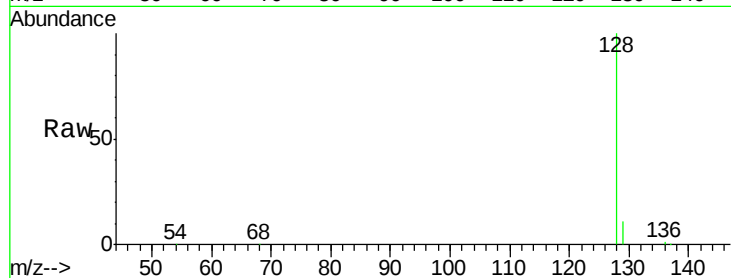
Tot Ion:128 Resp: 53505

Ion Ratio Lower Upper

128 100

129 11.4 11.3 16.9

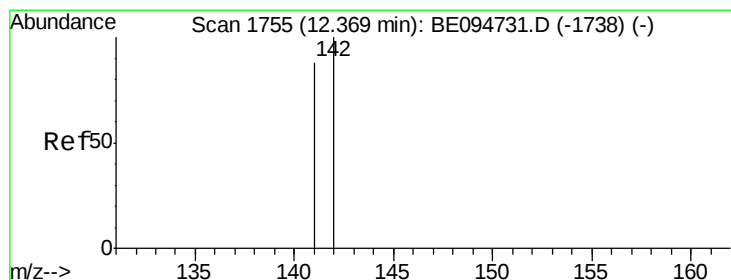
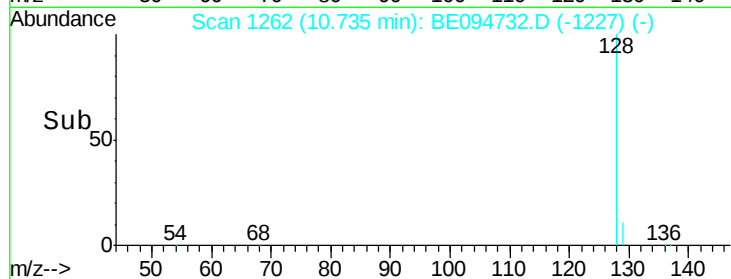
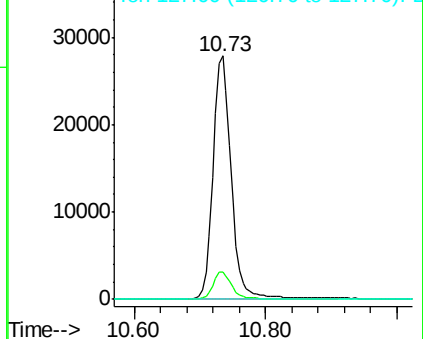
127 0.0 4.0 6.0#



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: 0.75 ng/ul

RT: 12.34 min Scan# 1747

Delta R.T. -0.03 min

Lab File: BE094732.D

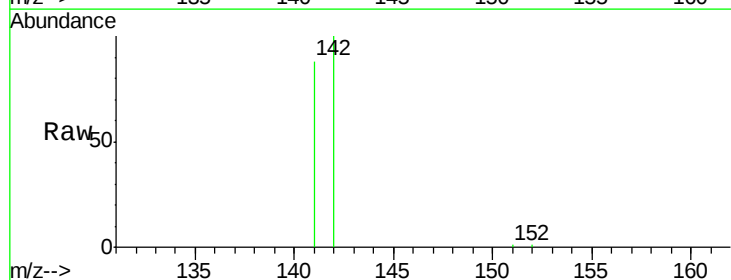
Acq: 4 Nov 2017 5:46

Tgt Ion:142 Resp: 12904

Ion Ratio Lower Upper

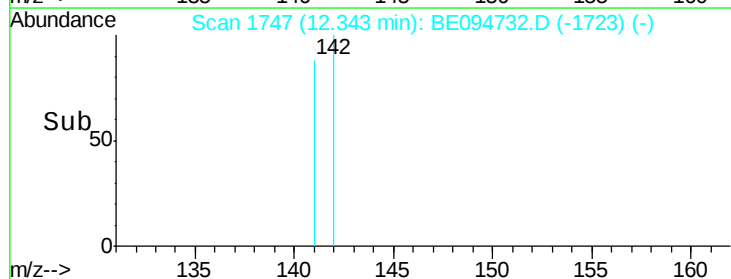
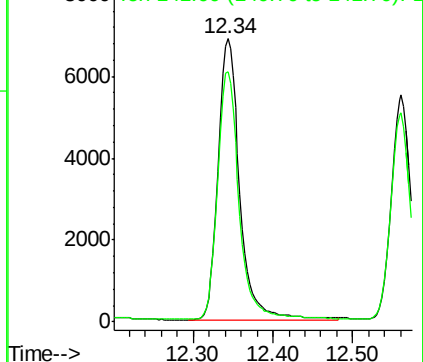
142 100

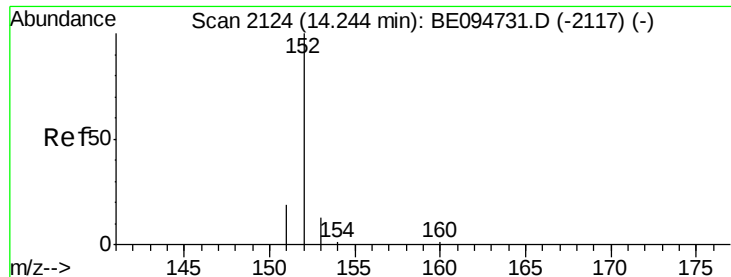
141 88.3 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.99 ng/ul

RT: 14.24 min Scan# 2123

Delta R.T. -0.01 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

Instrument :

BNA\_E

ClientSampleId :

B-9(0-1) 101617

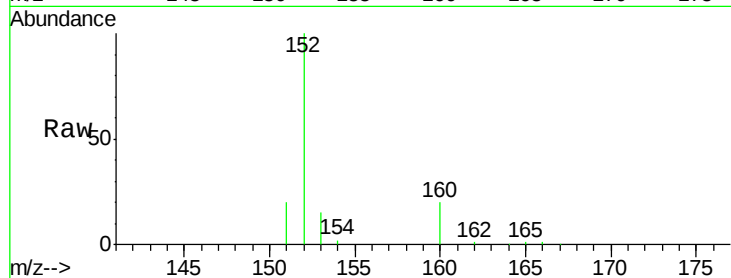
Tot Ion:152 Resp: 24983

Ion Ratio Lower Upper

152 100

151 19.8 17.1 25.7

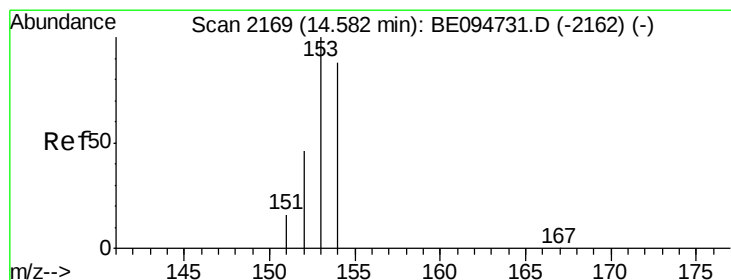
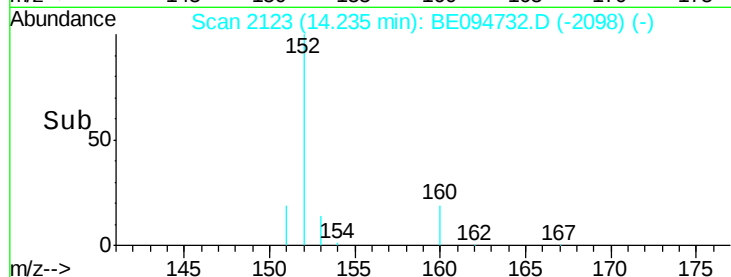
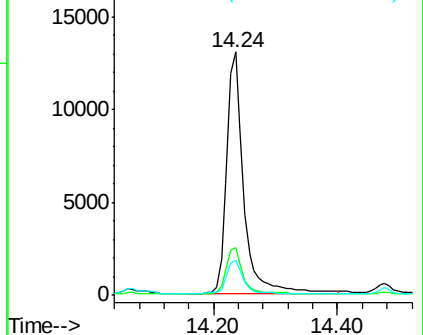
153 14.6 12.8 19.2



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: 3.12 ng/ul

RT: 14.57 min Scan# 2167

Delta R.T. -0.02 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

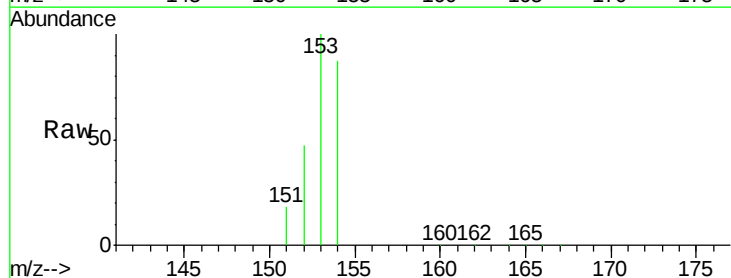
Tgt Ion:153 Resp: 56865

Ion Ratio Lower Upper

153 100

152 47.1 36.0 54.0

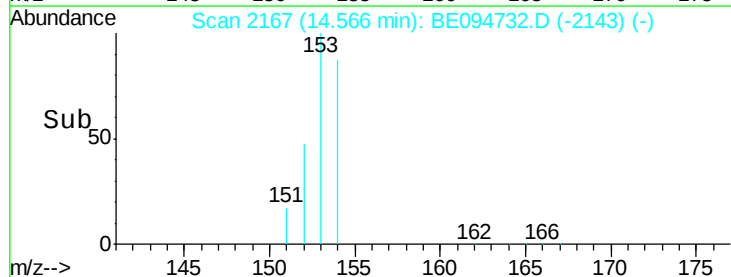
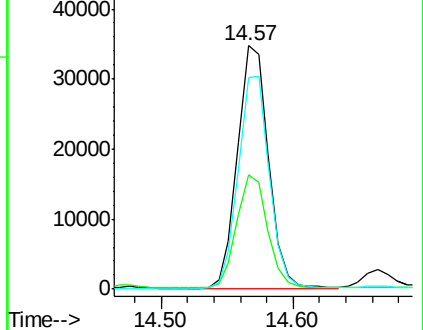
154 87.0 72.0 108.0

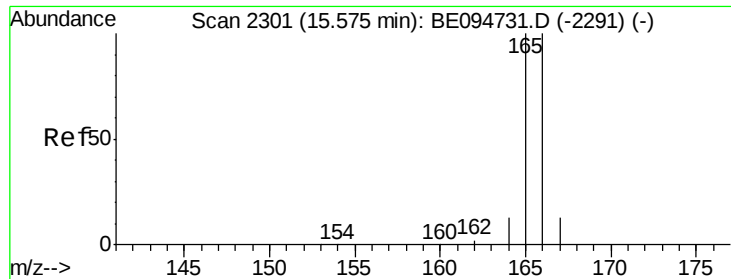


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 2.93 ng/ul

RT: 15.56 min Scan# 2299

Delta R.T. -0.02 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

Instrument :

BNA\_E

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B-9(0-1) 101617

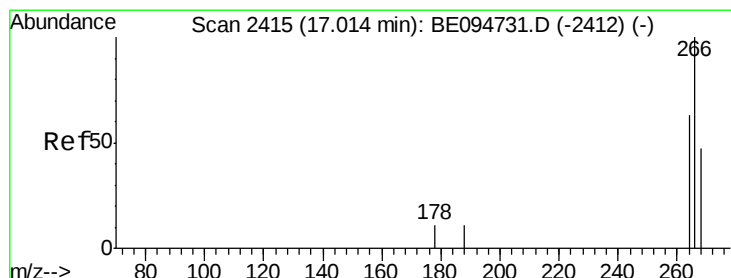
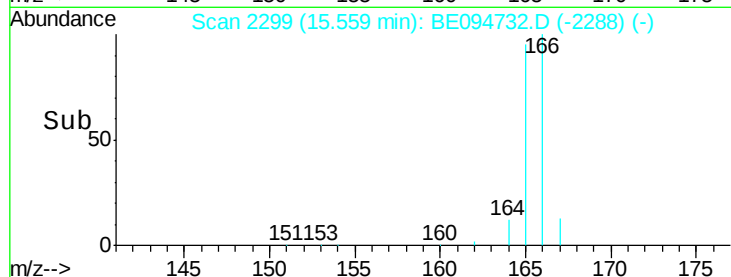
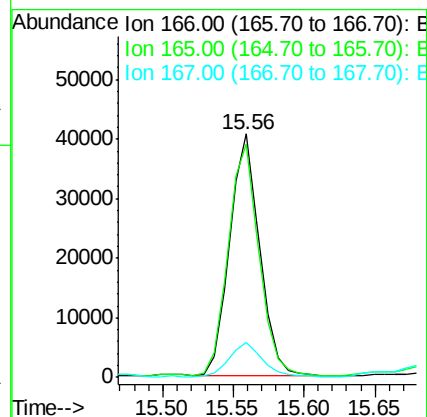
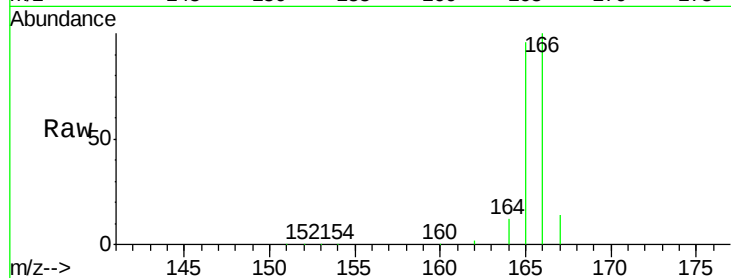
Tot Ion:166 Resp: 59858

Ion Ratio Lower Upper

166 100

165 95.8 73.4 110.2

167 14.2 14.6 22.0#



#11

Pentachlorophenol

Concen: 0.03 ng/ul

RT: 16.96 min Scan# 2412

Delta R.T. -0.05 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

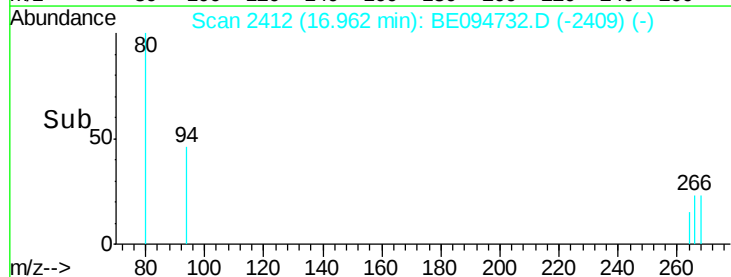
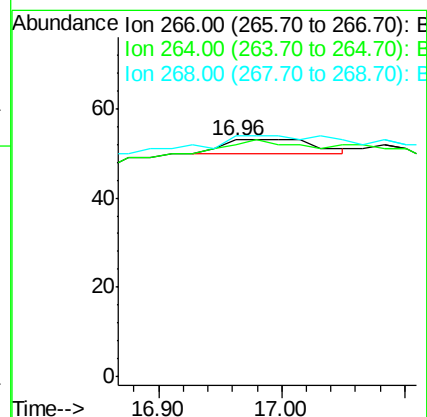
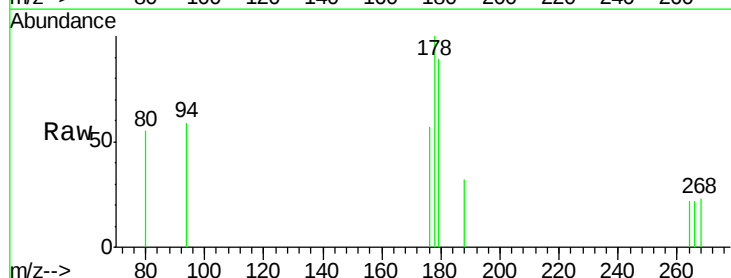
Tgt Ion:266 Resp: 16

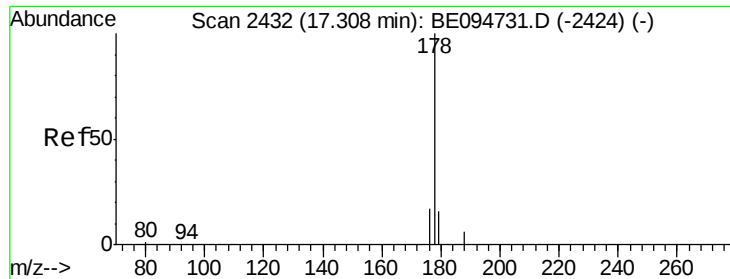
Ion Ratio Lower Upper

266 100

264 106.3 47.9 71.9#

268 137.5 49.8 74.8#





#12

Phenanthrene

Concen: 33.47 ng/ul

RT: 17.29 min Scan# 2431

Delta R.T. -0.02 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

Instrument :

BNA\_E

ClientSampleId :

B-9(0-1) 101617

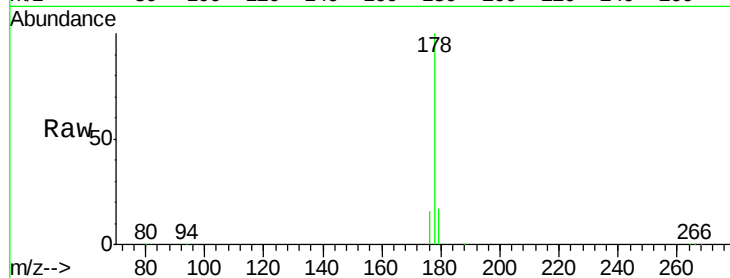
Tot Ion:178 Resp: 1085176

Ion Ratio Lower Upper

178 100

179 17.1 18.4 27.6#

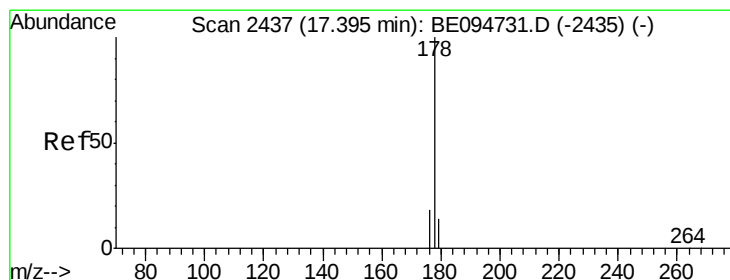
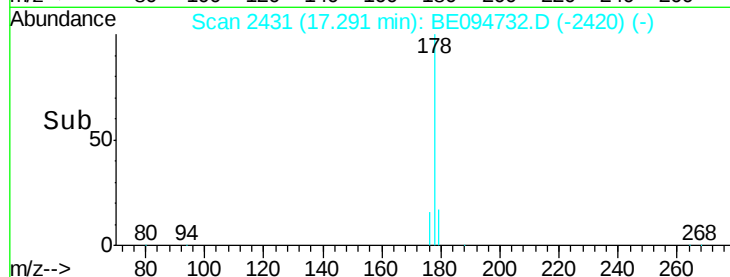
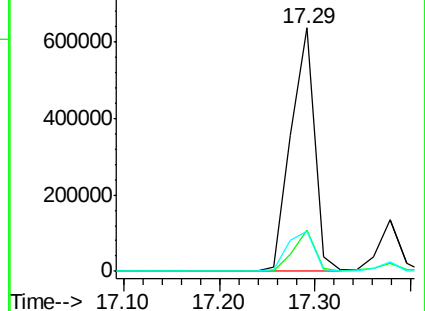
176 16.3 13.6 20.4



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: 6.53 ng/ul

RT: 17.38 min Scan# 2436

Delta R.T. -0.02 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

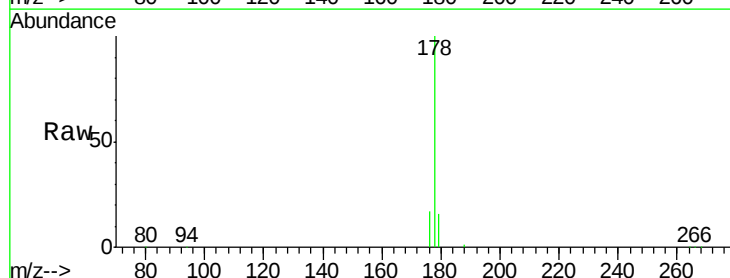
Tgt Ion:178 Resp: 208924

Ion Ratio Lower Upper

178 100

179 16.1 18.1 27.1#

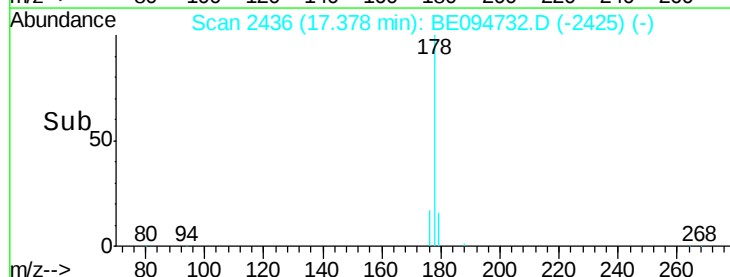
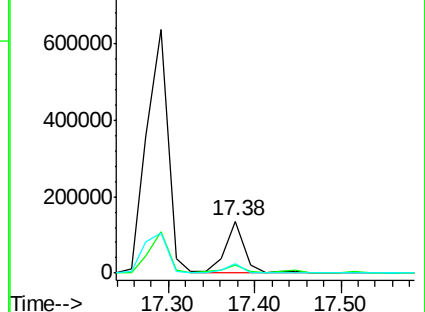
176 17.1 14.7 22.1

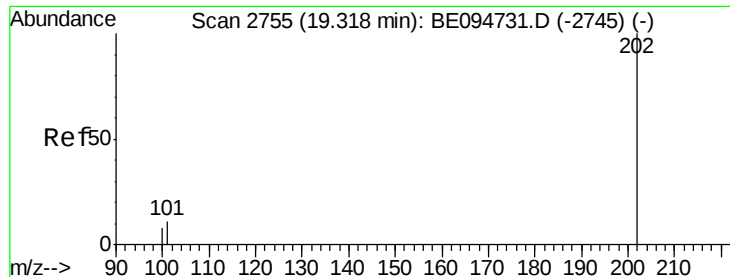


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#15

Fluoranthene

Concen: 45.90 ng/ul

RT: 19.31 min Scan# 2753

Delta R.T. -0.01 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

Instrument :

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ClientSampleId :

B-9(0-1) 101617

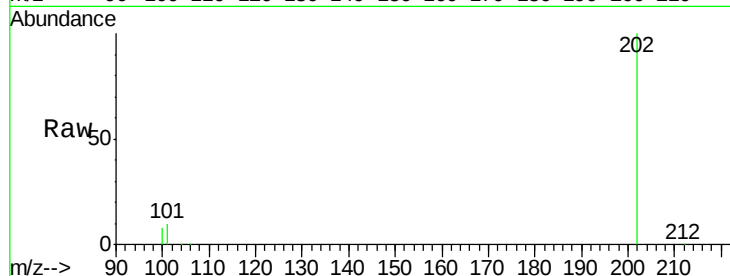
Tot Ion:202 Resp: 1720737

Ion Ratio Lower Upper

202 100

101 10.2 0.0 30.3

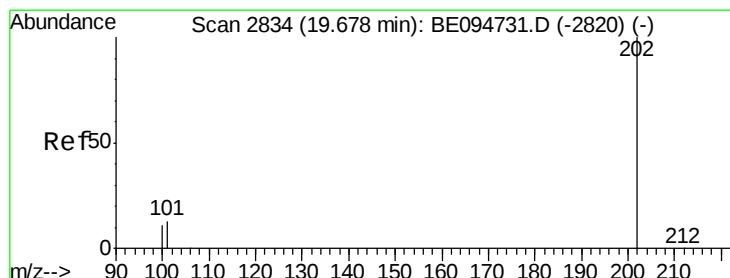
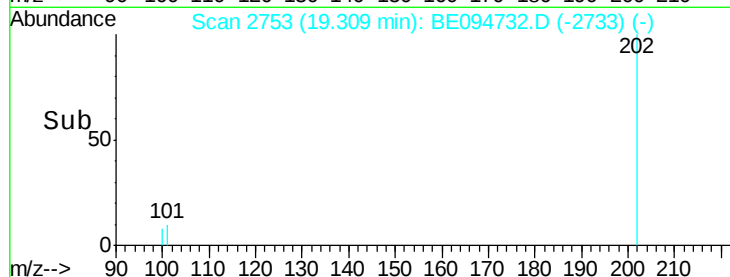
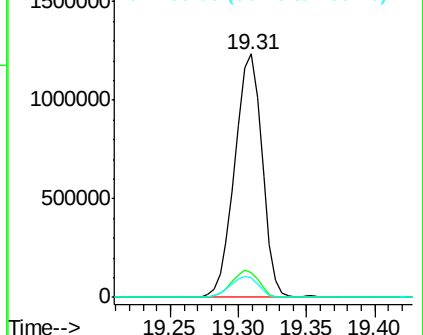
100 7.9 0.0 39.5



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: 42.99 ng/ul

RT: 19.67 min Scan# 2832

Delta R.T. -0.01 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

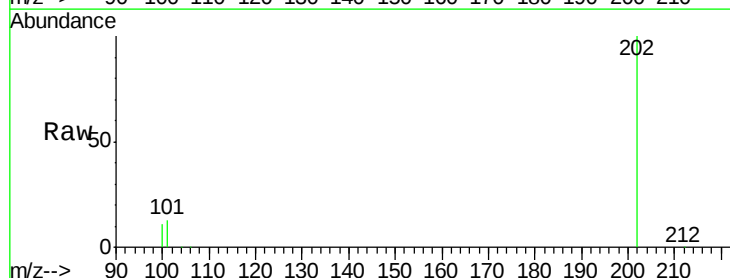
Tgt Ion:202 Resp: 1590167

Ion Ratio Lower Upper

202 100

101 12.8 18.2 27.4#

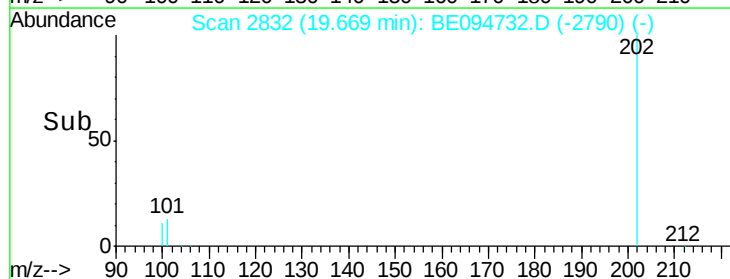
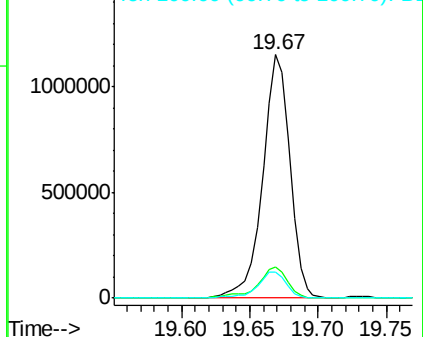
100 10.8 15.6 23.4#

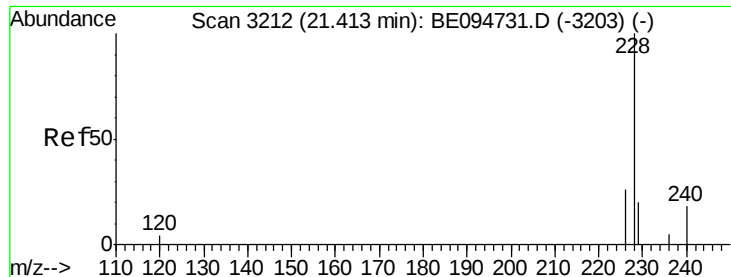


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): BE

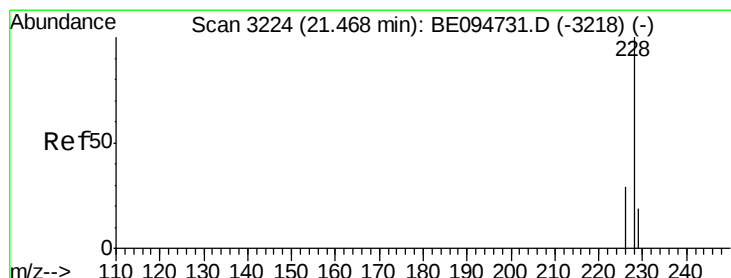
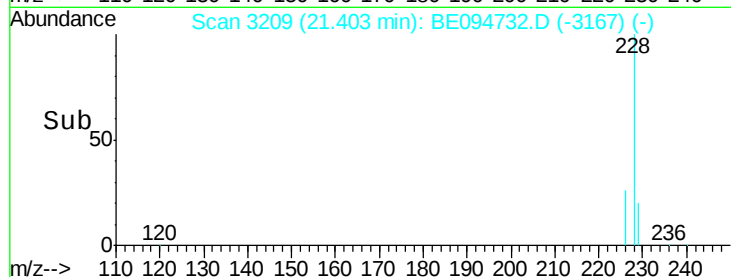
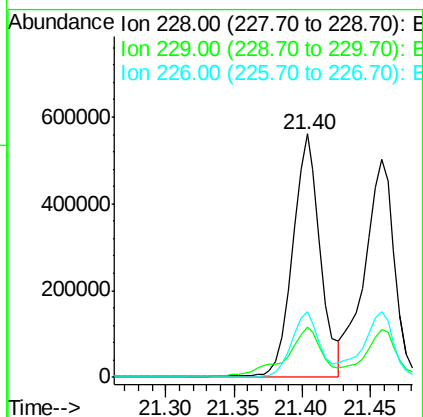
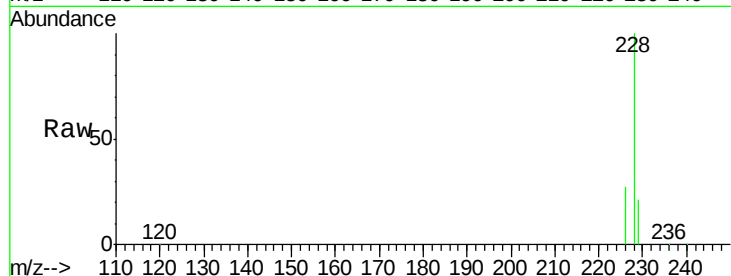




#18  
Benzo(a)anthracene  
Concen: 22.98 ng/ul  
RT: 21.40 min Scan# 3209  
Delta R.T. -0.01 min  
Lab File: BE094732.D  
Acq: 4 Nov 2017 5:46

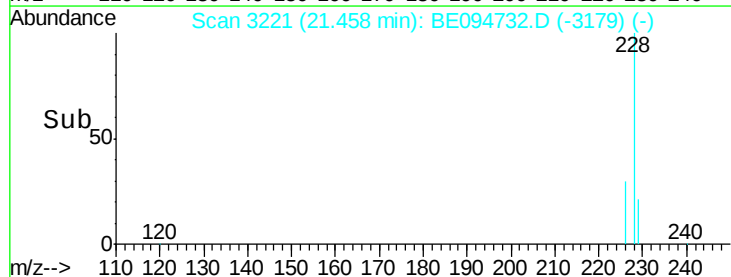
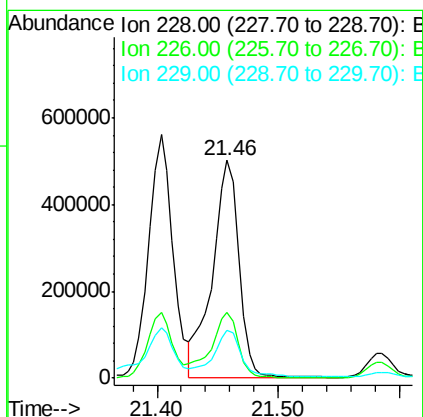
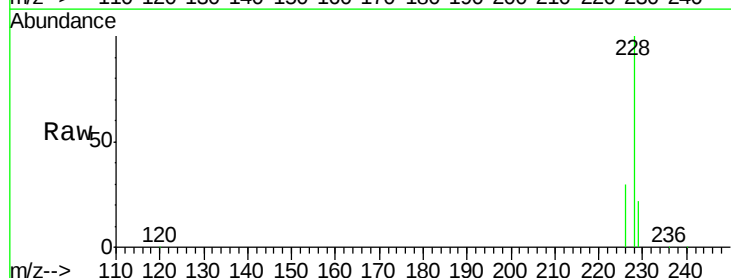
Instrument :  
BNA\_E  
ClientSampleId :  
B-9(0-1) 101617

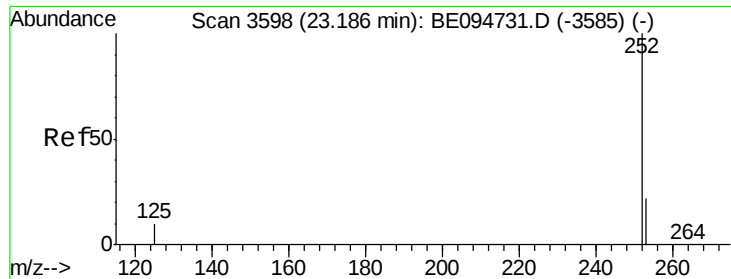
Tot Ion:228 Resp: 786009  
Ion Ratio Lower Upper  
228 100  
229 20.7 22.8 34.2#  
226 26.7 17.0 25.6#



#19  
Chrysene  
Concen: 21.77 ng/ul  
RT: 21.46 min Scan# 3221  
Delta R.T. -0.01 min  
Lab File: BE094732.D  
Acq: 4 Nov 2017 5:46

Tgt Ion:228 Resp: 769677  
Ion Ratio Lower Upper  
228 100  
226 30.1 23.4 35.0  
229 21.8 17.7 26.5





#21

Benzo(b)fluoranthene

Concen: 36.89 ng/ul

RT: 23.18 min Scan# 3596

Delta R.T. -0.00 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

Instrument :

BNA\_E

ClientSampleId :

B-9(0-1) 101617

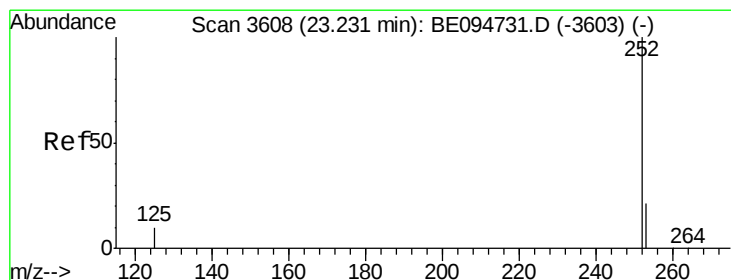
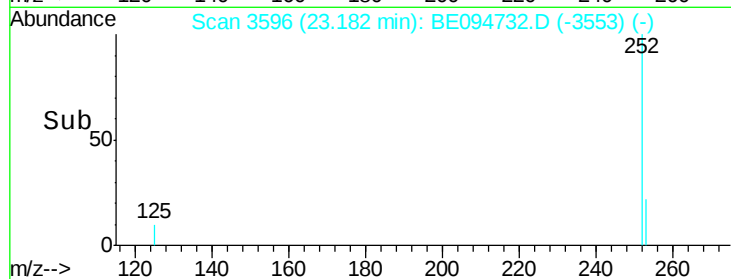
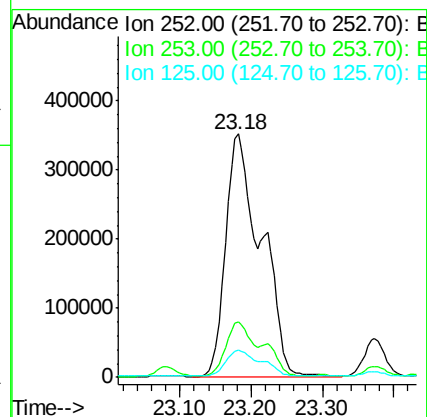
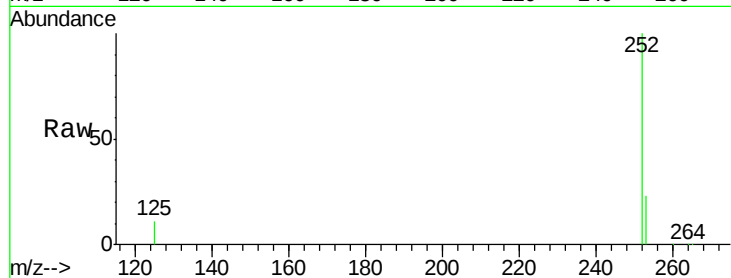
Tot Ion:252 Resp: 1214339

Ion Ratio Lower Upper

252 100

253 22.8 0.0 64.2

125 11.0 0.0 35.0



#22

Benzo(k)fluoranthene

Concen: 34.43 ng/ul

RT: 23.18 min Scan# 3596

Delta R.T. -0.05 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

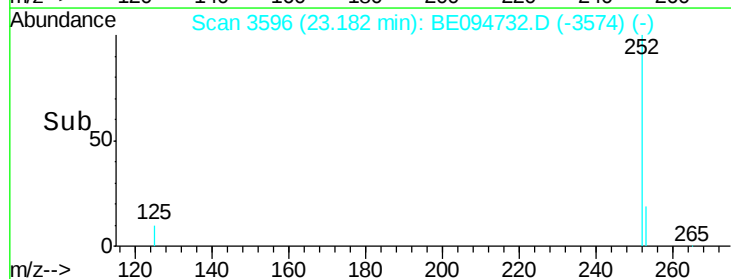
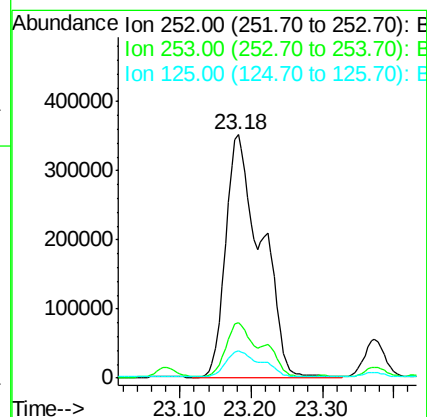
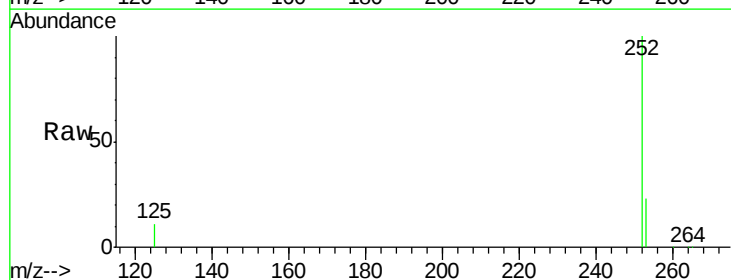
Tgt Ion:252 Resp: 1214339

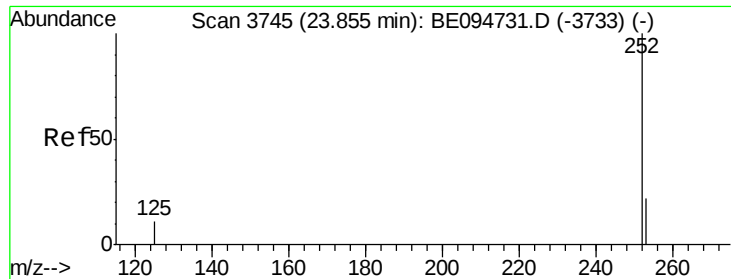
Ion Ratio Lower Upper

252 100

253 22.8 24.5 36.7#

125 11.0 13.7 20.5#





#23

Benzo(a)pyrene

Concen: 19.43 ng/ul

RT: 23.85 min Scan# 3742

Delta R.T. -0.01 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

Instrument :

BNA\_E

ClientSampleId :

B-9(0-1) 101617

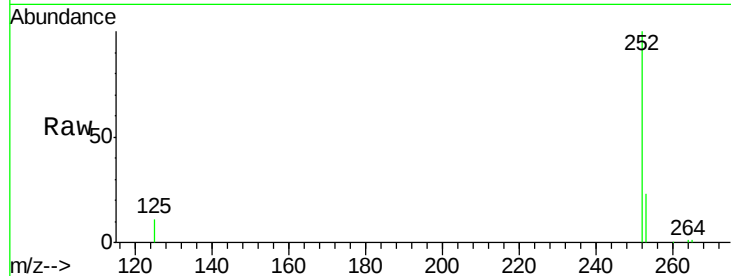
Tot Ion:252 Resp: 639171

Ion Ratio Lower Upper

252 100

253 23.2 28.5 42.7#

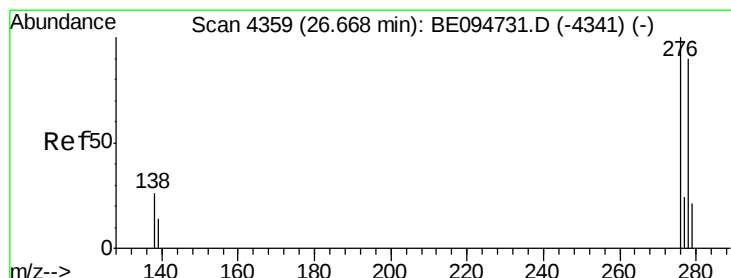
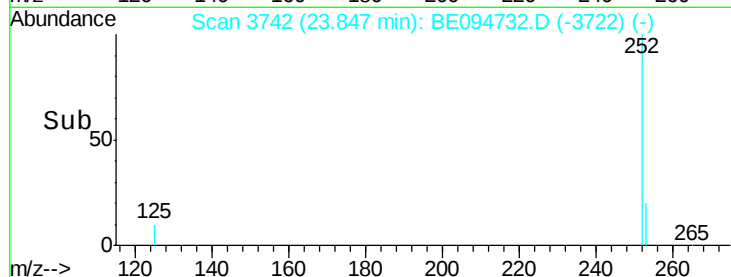
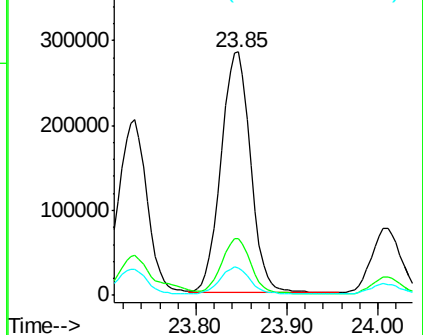
125 11.4 18.1 27.1#



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: 11.20 ng/ul

RT: 26.66 min Scan# 4356

Delta R.T. -0.01 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

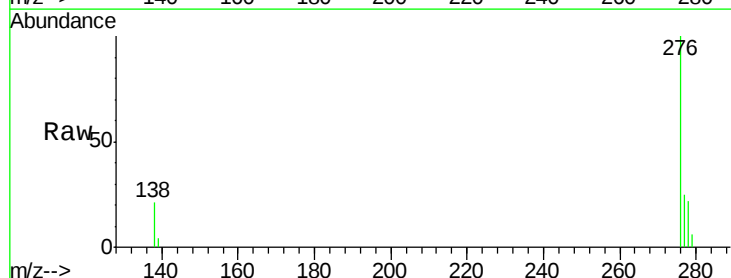
Tgt Ion:276 Resp: 381156

Ion Ratio Lower Upper

276 100

138 20.8 28.0 42.0#

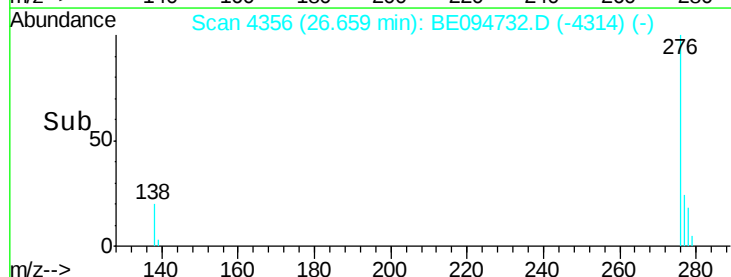
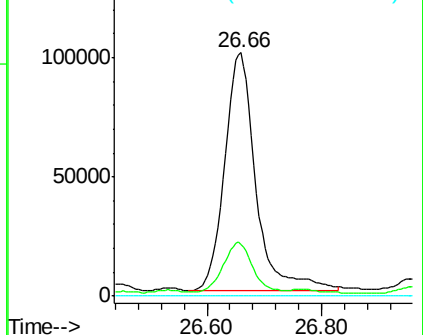
227 0.0 8.0 12.0#

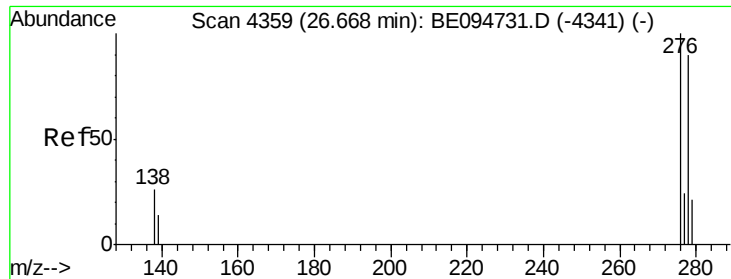


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E

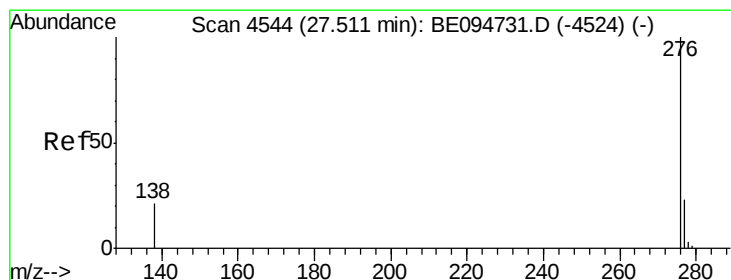
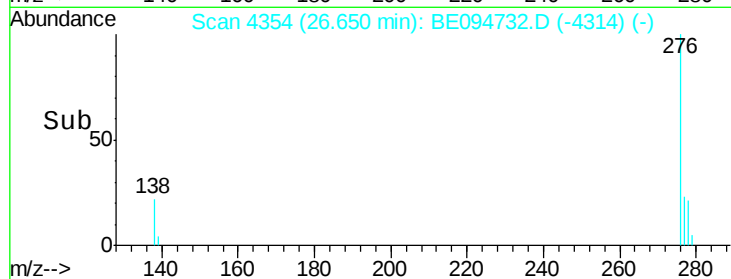
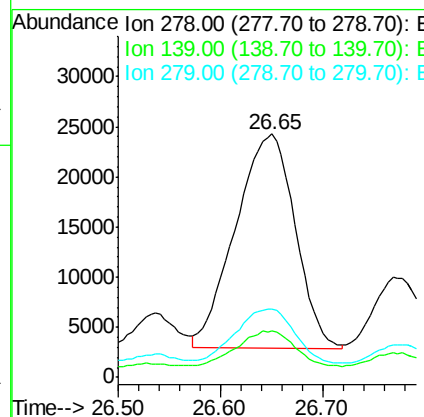
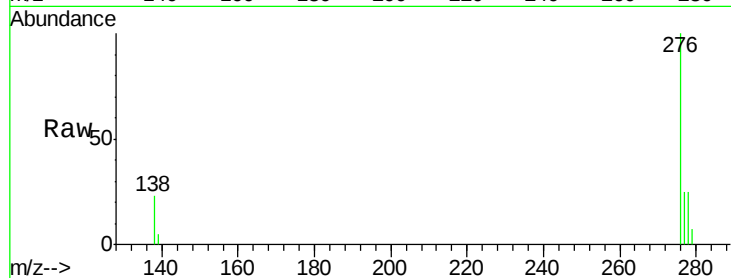




#25  
Dibenzo(a,h)anthracene  
Concen: 3.02 ng/ul  
RT: 26.65 min Scan# 4354  
Delta R.T. -0.02 min  
Lab File: BE094732.D  
Acq: 4 Nov 2017 5:46

Instrument :  
BNA\_E  
ClientSampleId :  
B-9(0-1) 101617

Tot Ion:278 Resp: 86493  
Ion Ratio Lower Upper  
278 100  
139 19.2 17.4 26.0  
279 28.3 25.9 38.9



#26  
Benzo(g,h,i)perylene  
Concen: 11.95 ng/ul  
RT: 27.50 min Scan# 4540  
Delta R.T. -0.01 min  
Lab File: BE094732.D  
Acq: 4 Nov 2017 5:46

Tgt Ion:276 Resp: 326661  
Ion Ratio Lower Upper  
276 100  
138 23.1 21.8 32.8  
277 24.6 20.5 30.7

