

Data Path : Z:\HPCHEM1\BNA E\DATA\BE102517\  
 Data File : BE094545.D  
 Acq On : 25 Oct 2017 22:34  
 Operator : SJ/JU  
 Sample : I5747-04 5X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Oct 26 11:59:42 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE102517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 25 18:44:03 2017  
 Response via : Initial Calibration

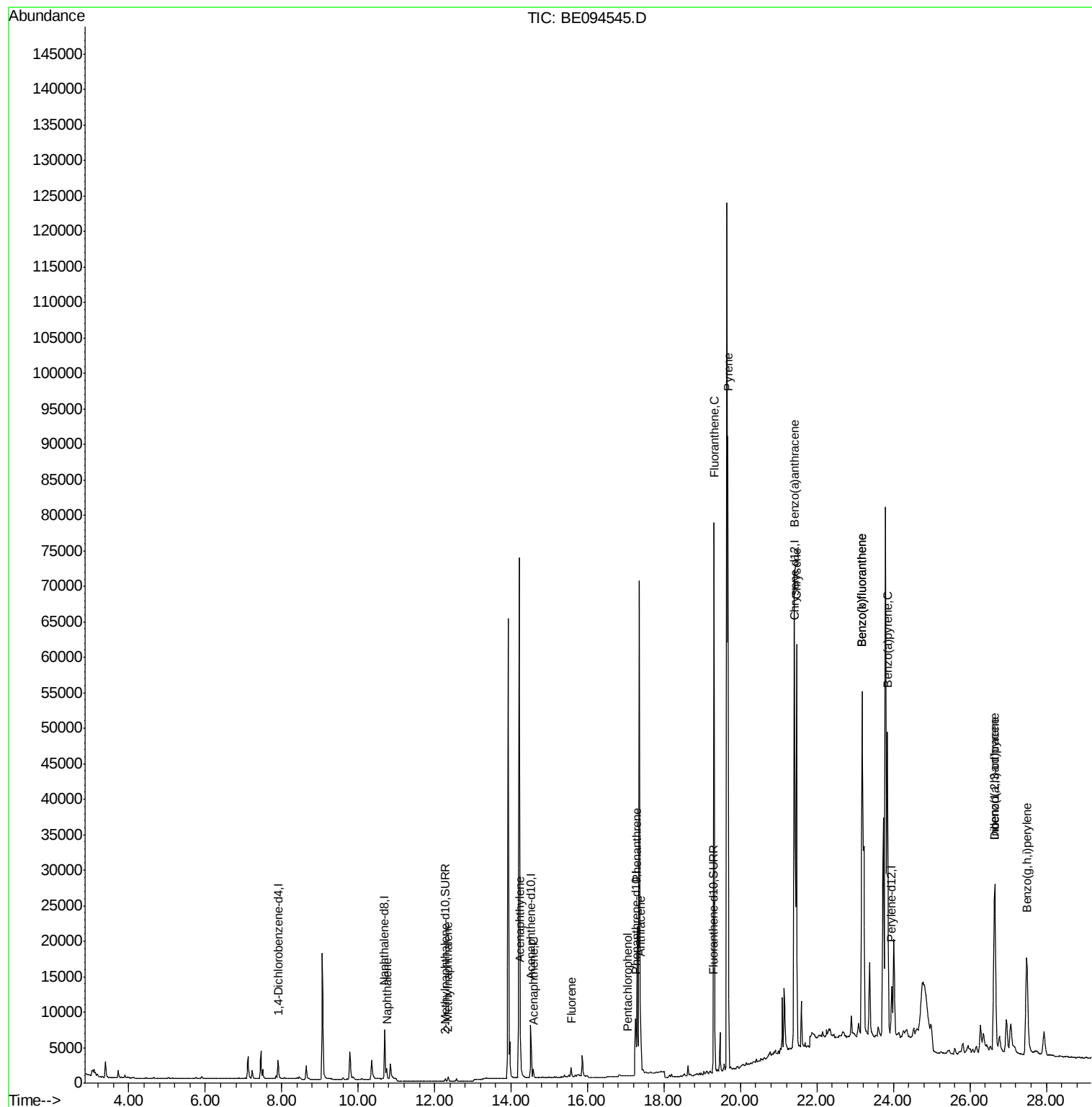
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.90  | 152  | 1442     | 0.40  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.69 | 136  | 8176     | 0.40  | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.52 | 164  | 4685     | 0.40  | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.26 | 188  | 10639    | 0.40  | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.42 | 240  | 10265    | 0.40  | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.95 | 264  | 10434    | 0.40  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.28 | 152  | 645      | 0.05  | ng/ul  | -0.02    |
| 14) Fluoranthene-d10        | 19.28 | 212  | 1535     | 0.05  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |       | Ovalue |          |
| 3) Naphthalene              | 10.74 | 128  | 2227     | 0.111 | ng/ul# | 92       |
| 5) 2-Methylnaphthalene      | 12.35 | 142  | 645      | 0.046 | ng/ul  | 97       |
| 7) Acenaphthylene           | 14.24 | 152  | 4503     | 0.212 | ng/ul  | 99       |
| 8) Acenaphthene             | 14.58 | 153  | 785      | 0.052 | ng/ul# | 94       |
| 9) Fluorene                 | 15.57 | 166  | 993      | 0.058 | ng/ul# | 88       |
| 11) Pentachlorophenol       | 17.05 | 266  | 18       | 0.034 | ng/ul  | 96       |
| 12) Phenanthrene            | 17.29 | 178  | 23461    | 0.835 | ng/ul# | 89       |
| 13) Anthracene              | 17.38 | 178  | 7318     | 0.264 | ng/ul# | 91       |
| 15) Fluoranthene            | 19.31 | 202  | 91336    | 2.811 | ng/ul  | 83       |
| 17) Pyrene                  | 19.67 | 202  | 100202   | 3.158 | ng/ul# | 81       |
| 18) Benzo(a)anthracene      | 21.40 | 228  | 65192    | 2.222 | ng/ul# | 87       |
| 19) Chrysene                | 21.46 | 228  | 59830    | 1.973 | ng/ul  | 96       |
| 21) Benzo(b)fluoranthene    | 23.18 | 252  | 123557   | 4.210 | ng/ul  | 91       |
| 22) Benzo(k)fluoranthene    | 23.18 | 252  | 123508   | 3.927 | ng/ul  | 93       |
| 23) Benzo(a)pyrene          | 23.85 | 252  | 69331    | 2.363 | ng/ul# | 86       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.65 | 276  | 49048    | 1.616 | ng/ul# | 75       |
| 25) Dibenzo(a,h)anthracene  | 26.64 | 278  | 10480    | 0.410 | ng/ul# | 71       |
| 26) Benzo(g,h,i)perylene    | 27.48 | 276  | 38477    | 1.578 | ng/ul  | 96       |

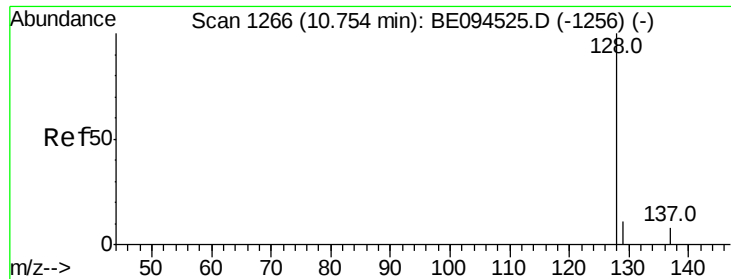
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_E  
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#3

Naphthalene

Concen: 0.111 ng/ul

RT: 10.74 min Scan# 1264

Delta R.T. -0.01 min

Lab File: BE094545.D

Acq: 25 Oct 2017 22:34

Instrument :

BNA\_E

ClientSampleId :

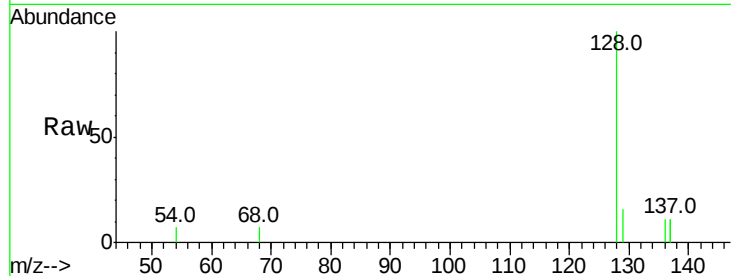
Tot Ion:128 Resp: 2227

Ion Ratio Lower Upper

128 100

129 16.1 11.3 16.9

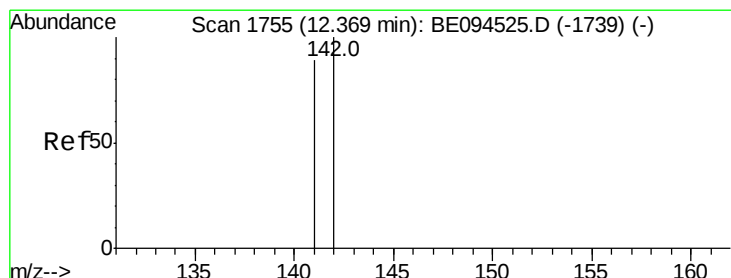
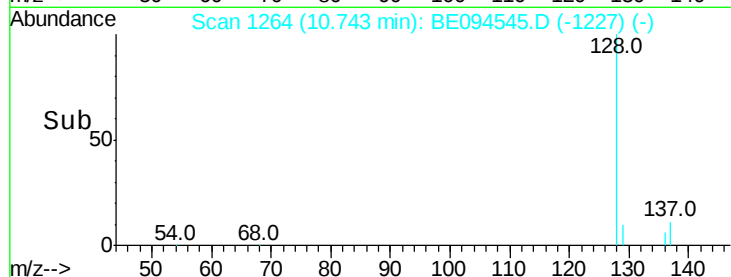
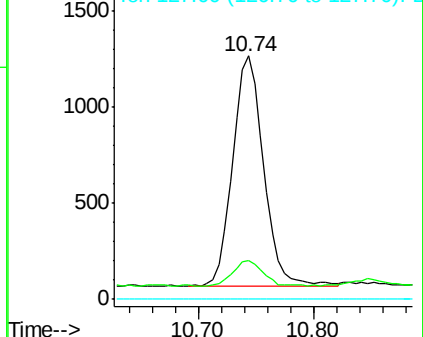
127 0.0 4.0 6.0#



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: 0.046 ng/ul

RT: 12.35 min Scan# 1750

Delta R.T. -0.01 min

Lab File: BE094545.D

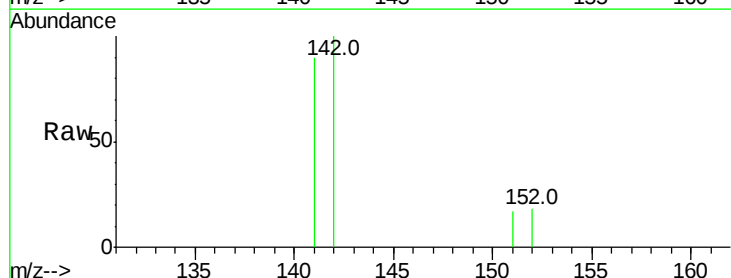
Acq: 25 Oct 2017 22:34

Tgt Ion:142 Resp: 645

Ion Ratio Lower Upper

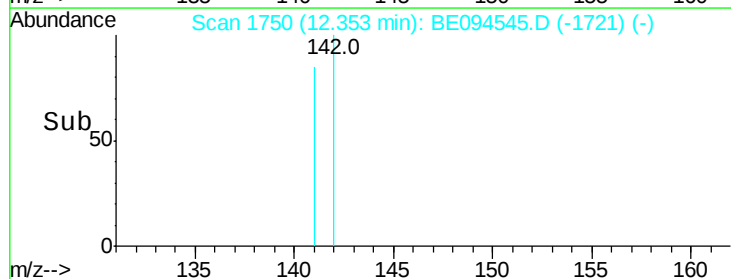
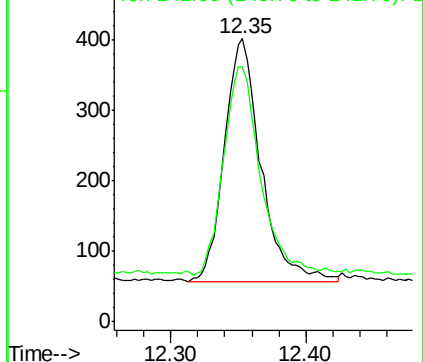
142 100

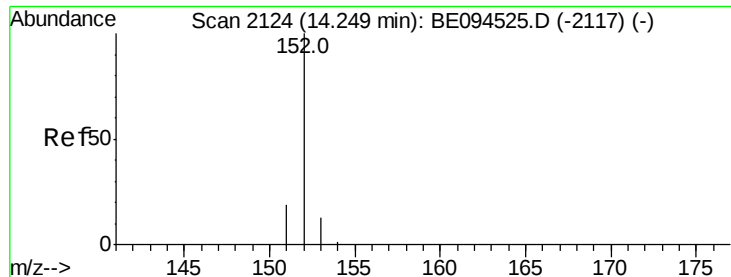
141 87.8 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.212 ng/ul

RT: 14.24 min Scan# 2124

Delta R.T. -0.00 min

Lab File: BE094545.D

Acq: 25 Oct 2017 22:34

Instrument :

BNA\_E

ClientSampleId :

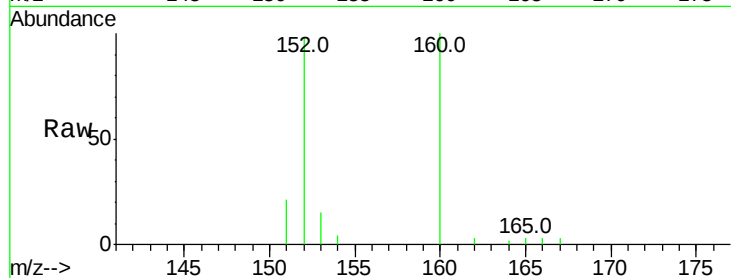
Tot Ion:152 Resp: 4503

Ion Ratio Lower Upper

152 100

151 21.5 17.1 25.7

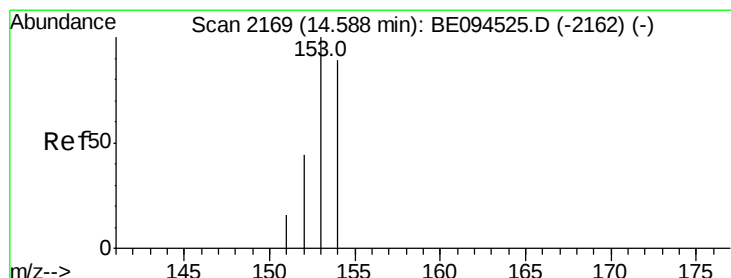
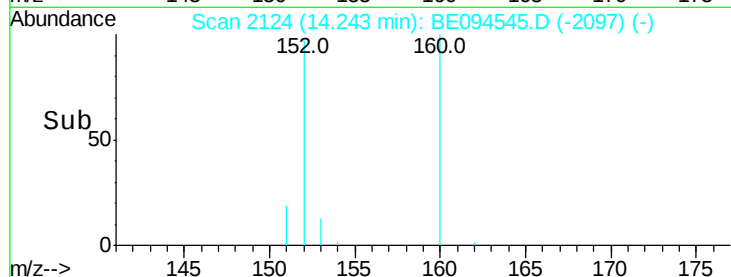
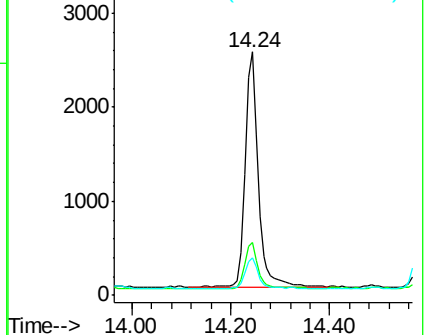
153 15.4 12.8 19.2



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: 0.052 ng/ul

RT: 14.58 min Scan# 2169

Delta R.T. 0.00 min

Lab File: BE094545.D

Acq: 25 Oct 2017 22:34

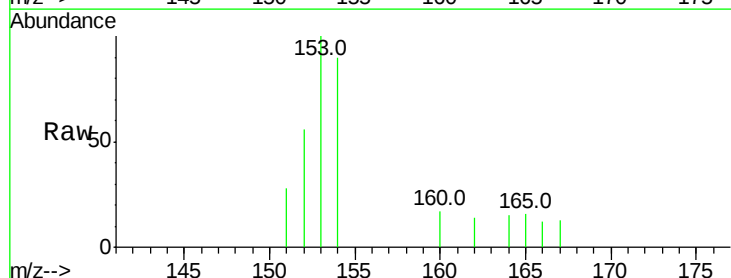
Tgt Ion:153 Resp: 785

Ion Ratio Lower Upper

153 100

152 56.1 36.0 54.0#

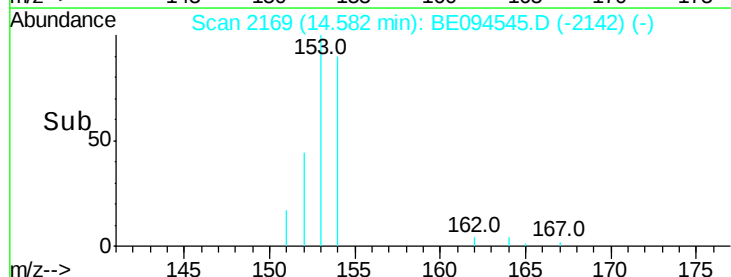
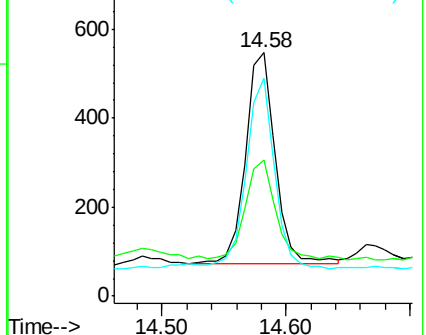
154 89.6 72.0 108.0

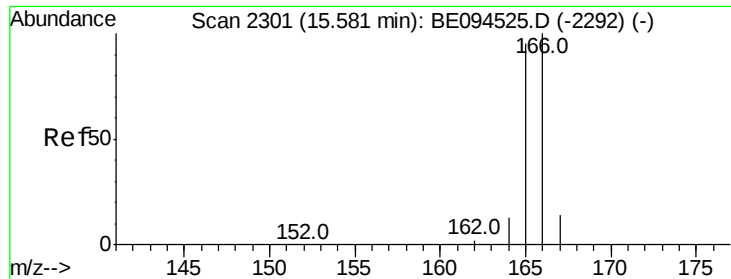


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

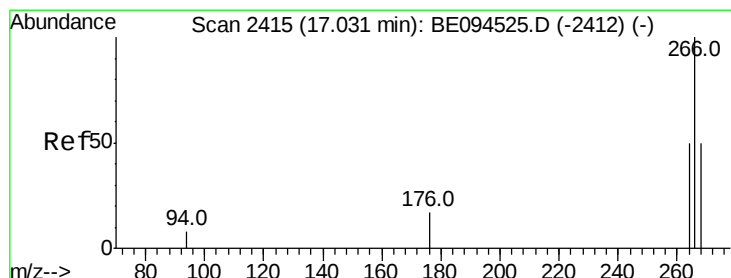
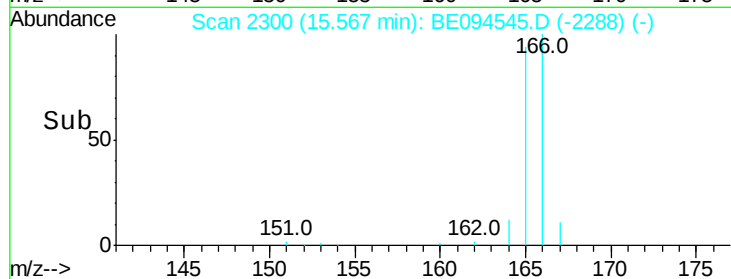
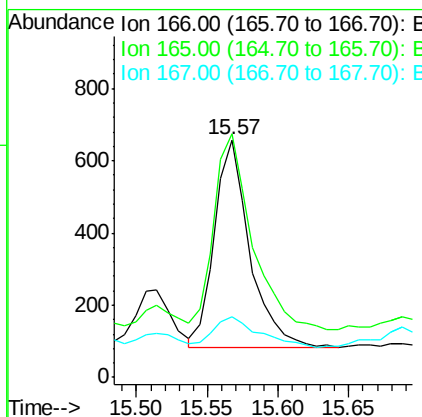
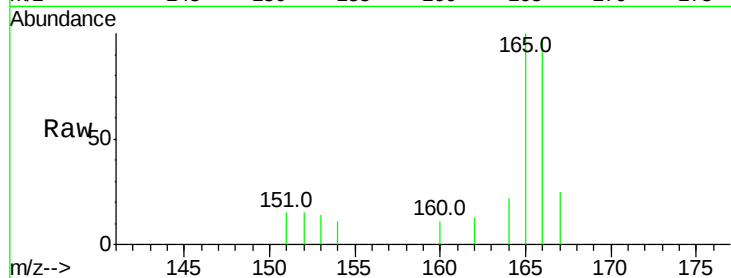




#9  
**Fluorene**  
 Concen: 0.058 ng/ul  
 RT: 15.57 min Scan# 2300  
 Delta R.T. -0.01 min  
 Lab File: BE094545.D  
 Acq: 25 Oct 2017 22:34

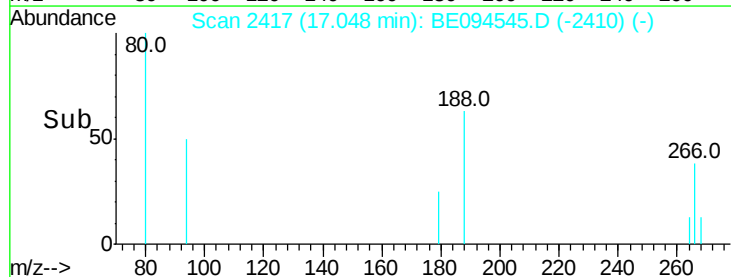
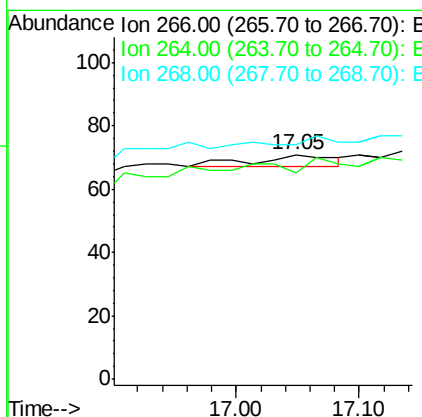
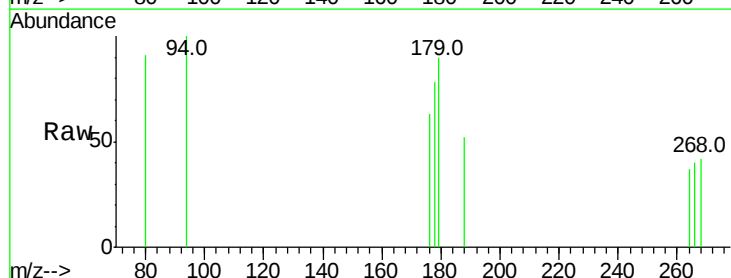
Instrument :  
 BNA\_E  
 ClientSampleId :

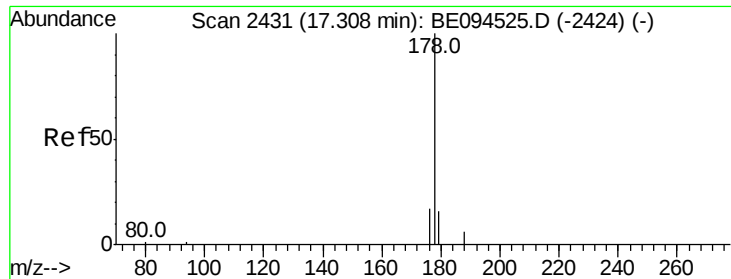
Tot Ion:166 Resp: 993  
 Ion Ratio Lower Upper  
 166 100  
 165 102.6 73.4 110.2  
 167 25.4 14.6 22.0#



#11  
**Pentachlorophenol**  
 Concen: 0.034 ng/ul  
 RT: 17.05 min Scan# 2417  
 Delta R.T. 0.02 min  
 Lab File: BE094545.D  
 Acq: 25 Oct 2017 22:34

Tgt Ion:266 Resp: 18  
 Ion Ratio Lower Upper  
 266 100  
 264 55.6 47.9 71.9  
 268 61.1 49.8 74.8





#12

Phenanthrene

Concen: 0.835 ng/ul

RT: 17.29 min Scan# 2431

Delta R.T. -0.02 min

Lab File: BE094545.D

Acq: 25 Oct 2017 22:34

Instrument :

BNA\_E

ClientSampleId :

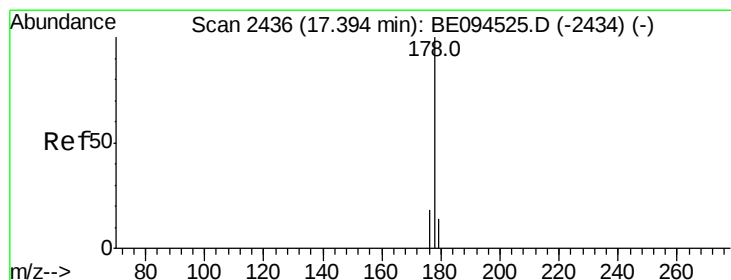
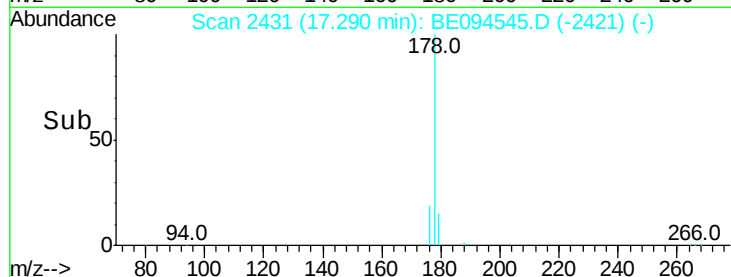
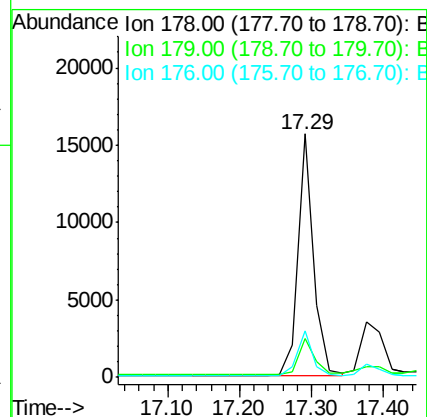
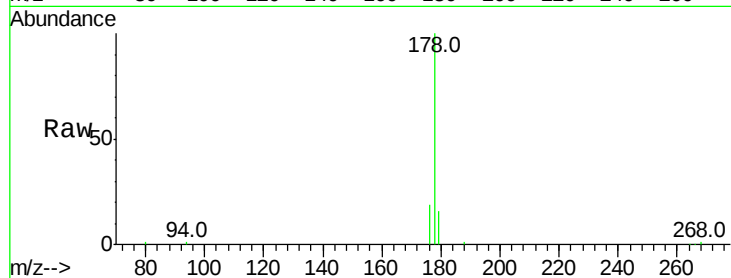
Tot Ion:178 Resp: 23461

Ion Ratio Lower Upper

178 100

179 15.7 18.4 27.6#

176 19.3 13.6 20.4



#13

Anthracene

Concen: 0.264 ng/ul

RT: 17.38 min Scan# 2436

Delta R.T. -0.02 min

Lab File: BE094545.D

Acq: 25 Oct 2017 22:34

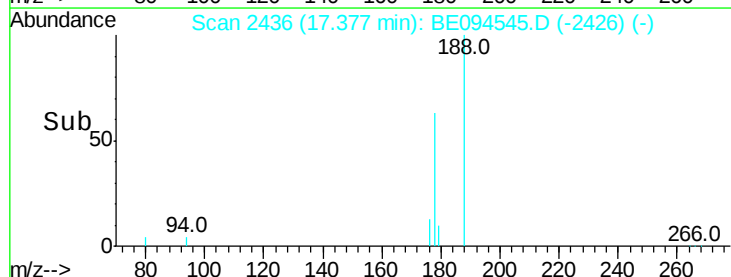
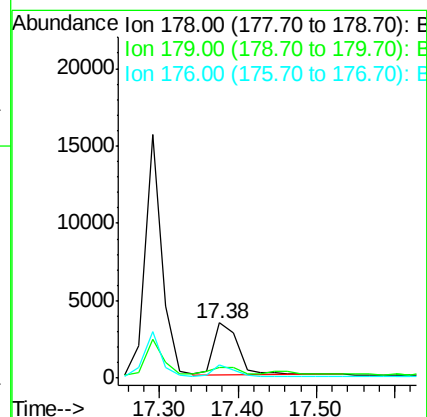
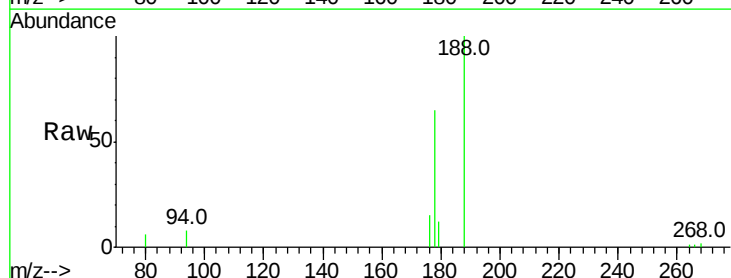
Tgt Ion:178 Resp: 7318

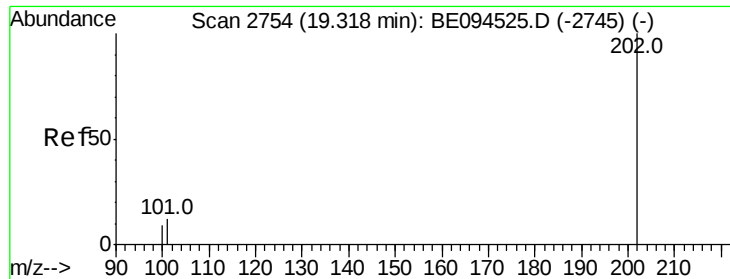
Ion Ratio Lower Upper

178 100

179 19.1 18.1 27.1

176 22.9 14.7 22.1#





#15

Fluoranthene

Concen: 2.811 ng/ul

RT: 19.31 min Scan# 2754

Delta R.T. -0.00 min

Lab File: BE094545.D

Acq: 25 Oct 2017 22:34

Instrument :

BNA\_E

ClientSampleId :

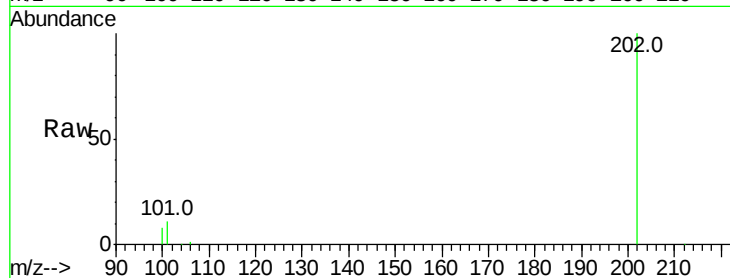
Tot Ion:202 Resp: 91336

Ion Ratio Lower Upper

202 100

101 10.8 0.0 30.3

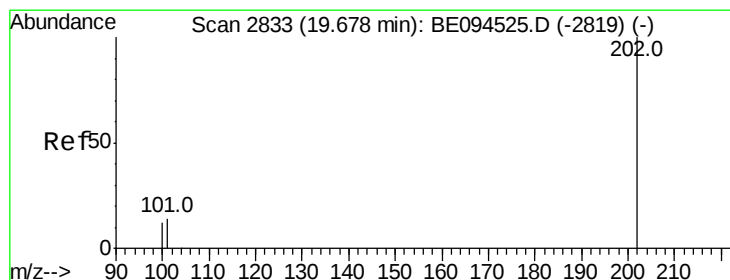
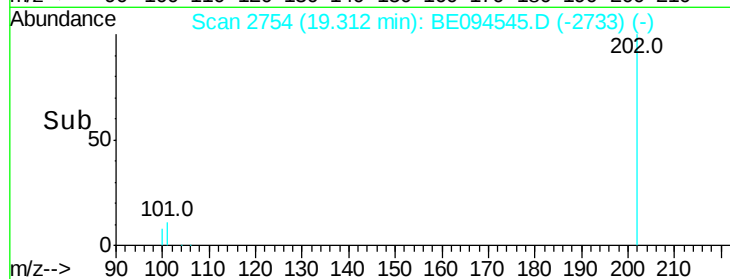
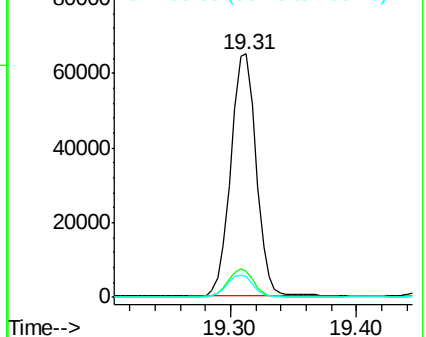
100 8.3 0.0 39.5



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: 3.158 ng/ul

RT: 19.67 min Scan# 2833

Delta R.T. -0.00 min

Lab File: BE094545.D

Acq: 25 Oct 2017 22:34

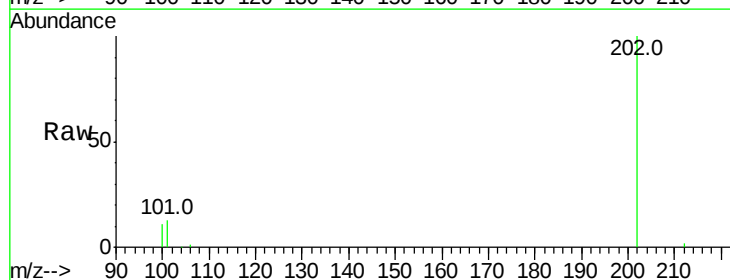
Tgt Ion:202 Resp: 100202

Ion Ratio Lower Upper

202 100

101 13.1 18.2 27.4#

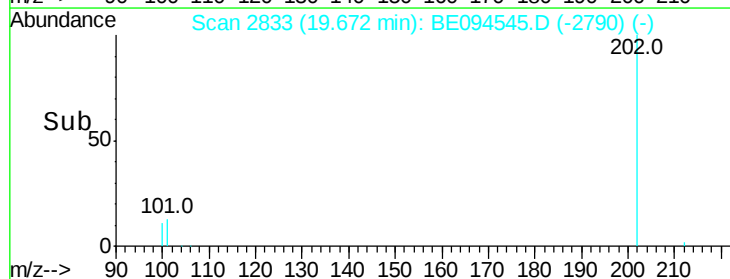
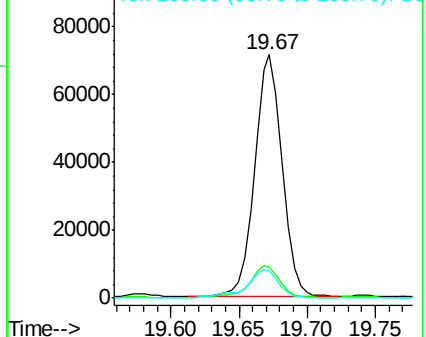
100 11.0 15.6 23.4#

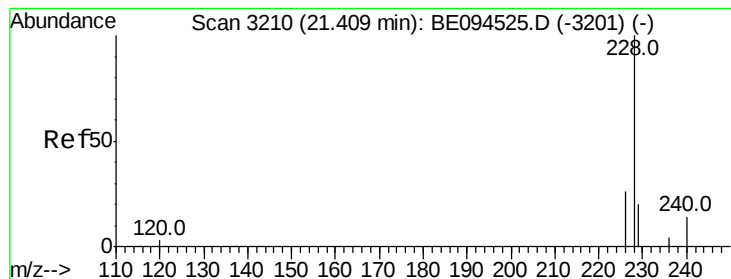


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): BE





#18

Benzo(a)anthracene

Concen: 2.222 ng/ul

RT: 21.40 min Scan# 3210

Delta R.T. -0.00 min

Lab File: BE094545.D

Acq: 25 Oct 2017 22:34

Instrument :

BNA\_E

ClientSampleId :

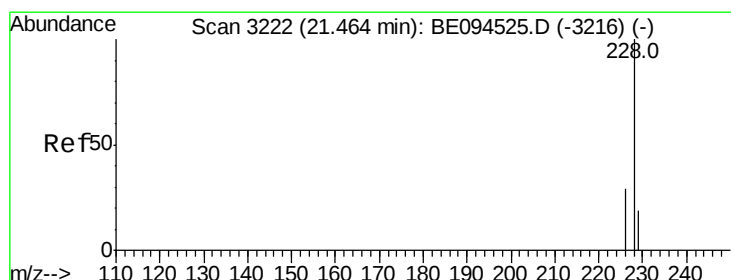
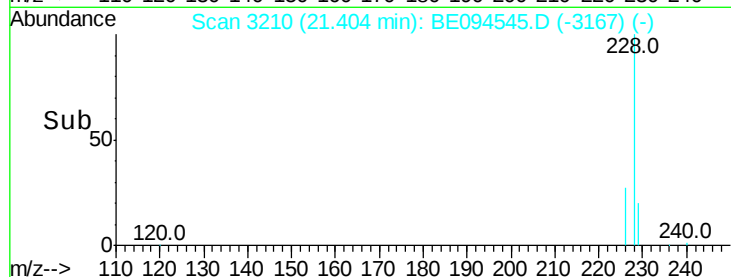
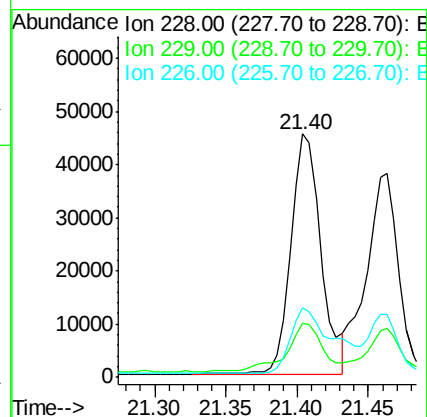
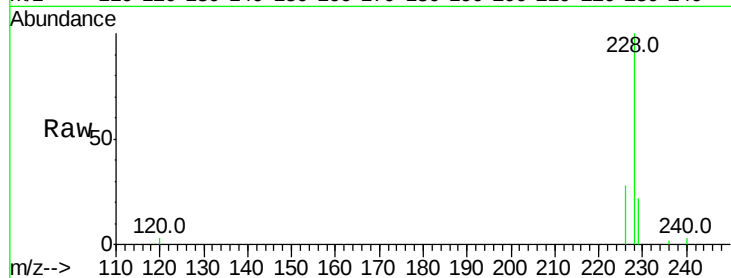
Tot Ion:228 Resp: 65192

Ion Ratio Lower Upper

228 100

229 22.2 22.8 34.2#

226 28.3 17.0 25.6#



#19

Chrysene

Concen: 1.973 ng/ul

RT: 21.46 min Scan# 3223

Delta R.T. -0.00 min

Lab File: BE094545.D

Acq: 25 Oct 2017 22:34

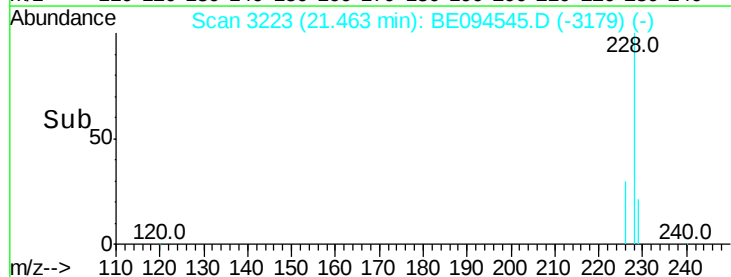
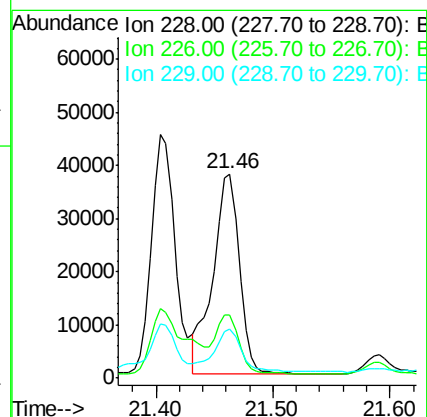
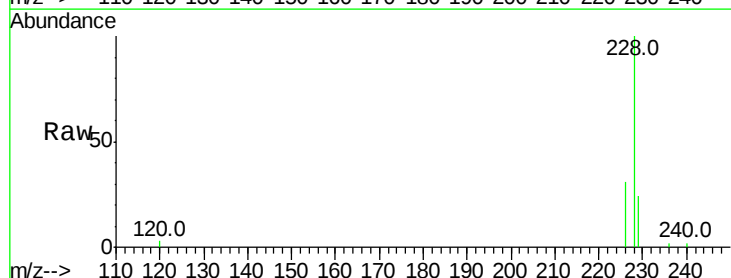
Tgt Ion:228 Resp: 59830

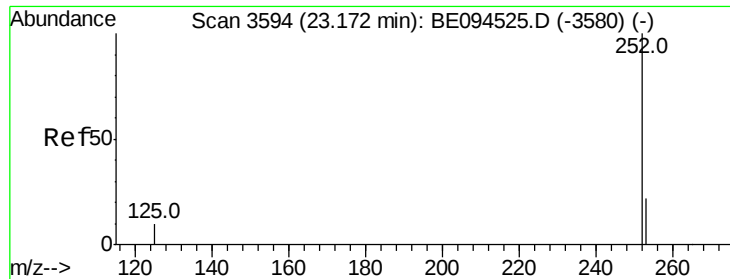
Ion Ratio Lower Upper

228 100

226 31.0 23.4 35.0

229 23.9 17.7 26.5





#21

Benzo(b)fluoranthene

Concen: 4.210 ng/ul

RT: 23.18 min Scan# 3596

Delta R.T. 0.00 min

Lab File: BE094545.D

Acq: 25 Oct 2017 22:34

Instrument :

BNA\_E

ClientSampleId :

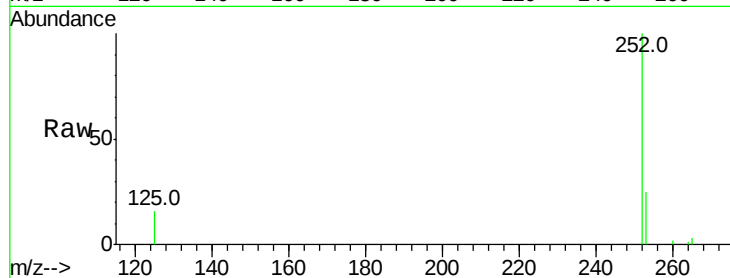
Tot Ion:252 Resp: 123557

Ion Ratio Lower Upper

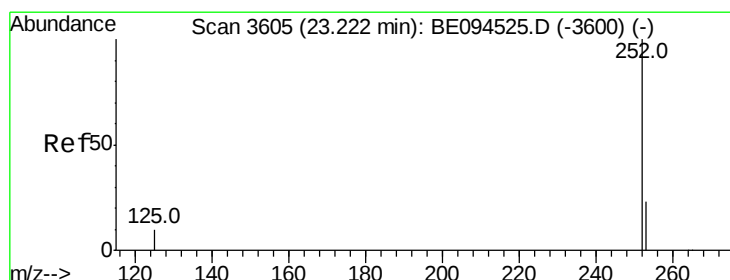
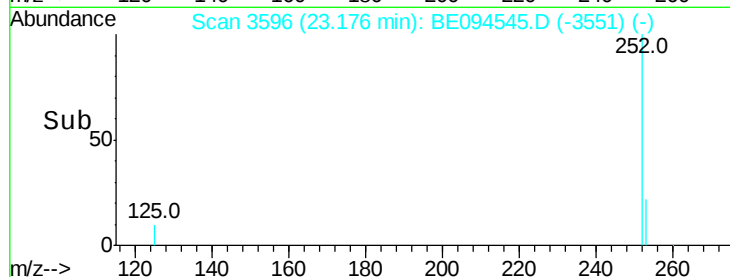
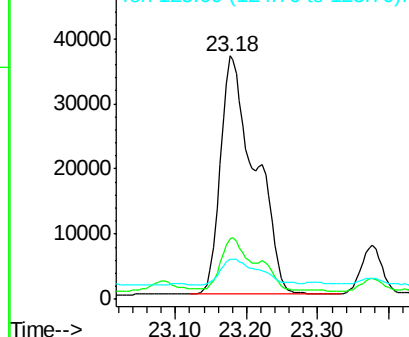
252 100

253 24.9 0.0 64.2

125 16.5 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: 3.927 ng/ul

RT: 23.18 min Scan# 3596

Delta R.T. -0.05 min

Lab File: BE094545.D

Acq: 25 Oct 2017 22:34

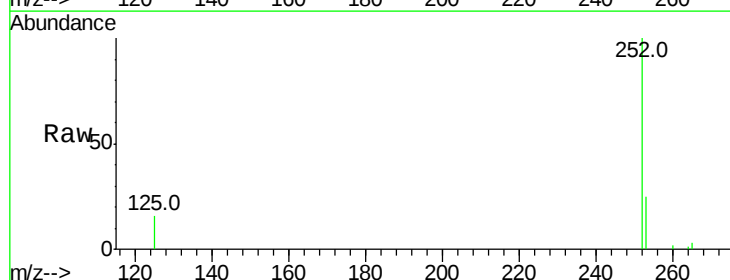
Tgt Ion:252 Resp: 123508

Ion Ratio Lower Upper

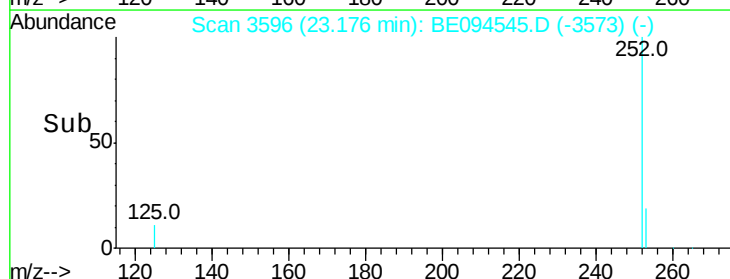
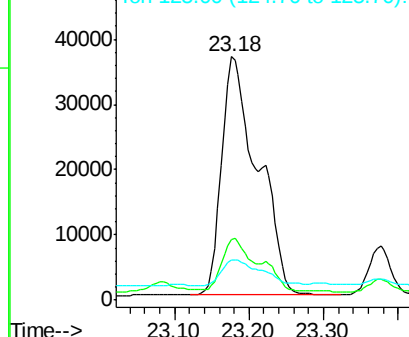
252 100

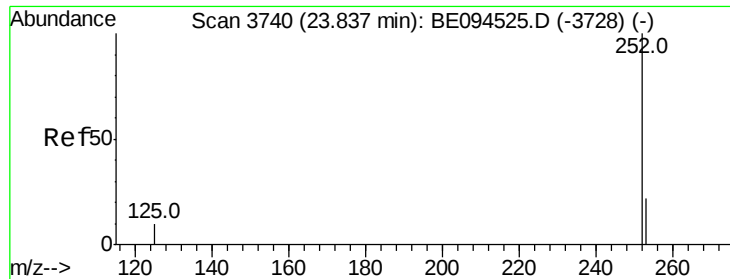
253 24.9 24.5 36.7

125 16.5 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: 2.363 ng/ul

RT: 23.85 min Scan# 3743

Delta R.T. 0.00 min

Lab File: BE094545.D

Acq: 25 Oct 2017 22:34

Instrument :

BNA\_E

ClientSampleId :

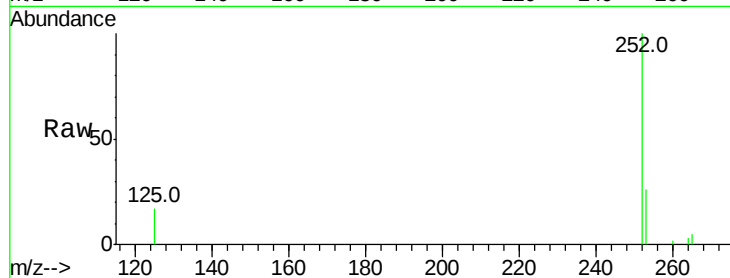
Tot Ion:252 Resp: 69331

Ion Ratio Lower Upper

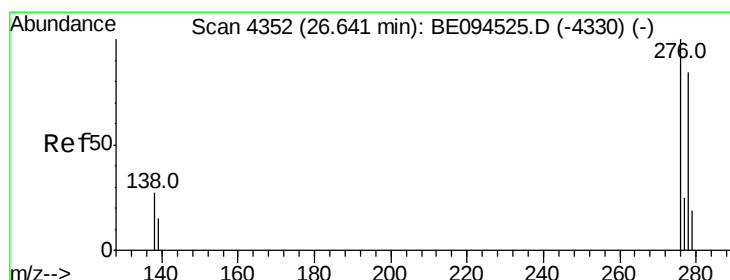
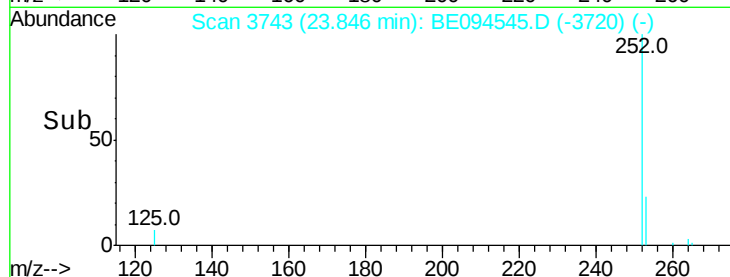
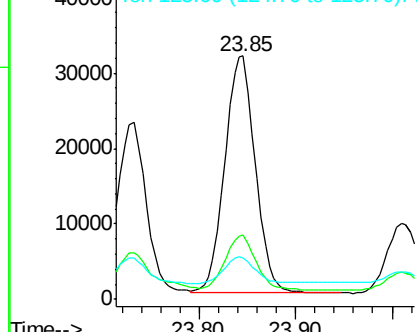
252 100

253 26.2 28.5 42.7#

125 16.9 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: 1.616 ng/ul

RT: 26.65 min Scan# 4355

Delta R.T. 0.01 min

Lab File: BE094545.D

Acq: 25 Oct 2017 22:34

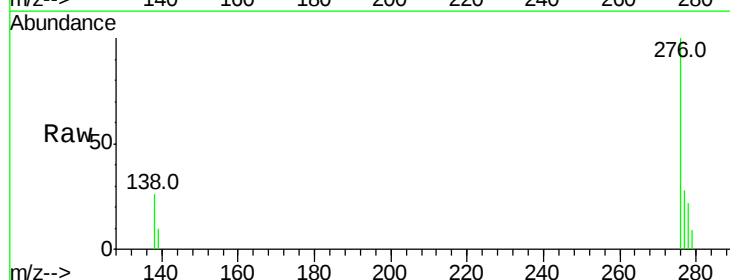
Tgt Ion:276 Resp: 49048

Ion Ratio Lower Upper

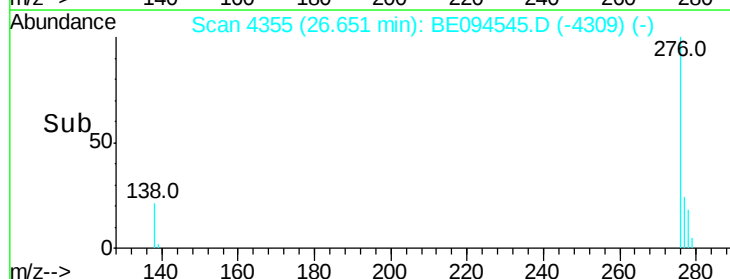
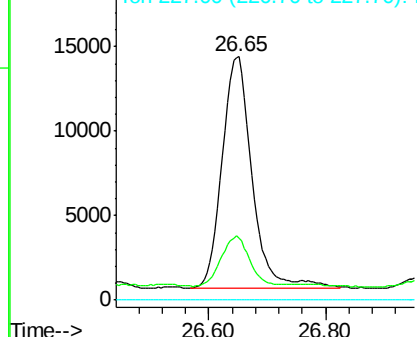
276 100

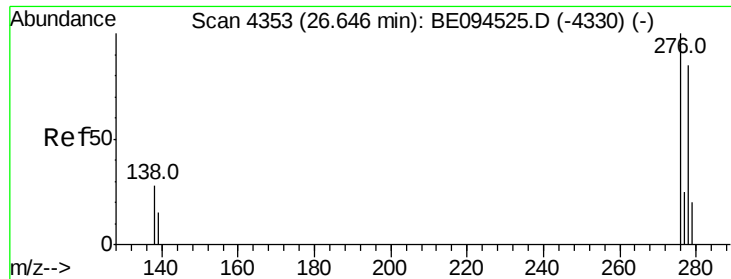
138 20.5 28.0 42.0#

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





#25

Dibenzo(a,h)anthracene

Concen: 0.410 ng/ul

RT: 26.64 min Scan# 4353

Delta R.T. 0.00 min

Lab File: BE094545.D

Acq: 25 Oct 2017 22:34

Instrument :

BNA\_E

ClientSampleId :

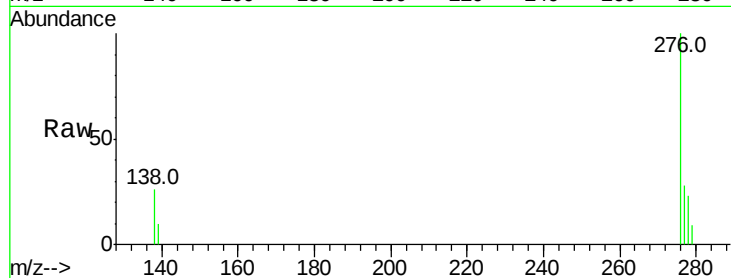
Tot Ion:278 Resp: 10480

Ion Ratio Lower Upper

278 100

139 44.9 17.4 26.0#

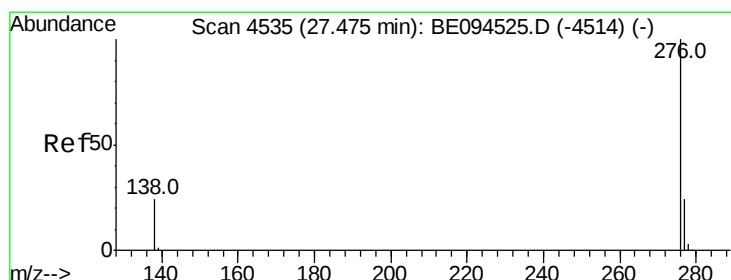
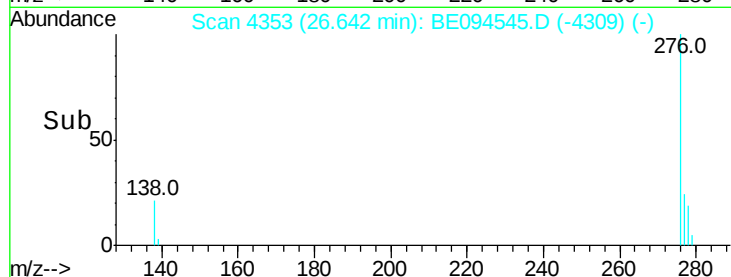
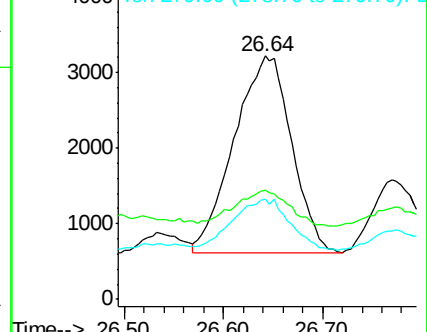
279 41.3 25.9 38.9#



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: 1.578 ng/ul

RT: 27.48 min Scan# 4537

Delta R.T. 0.00 min

Lab File: BE094545.D

Acq: 25 Oct 2017 22:34

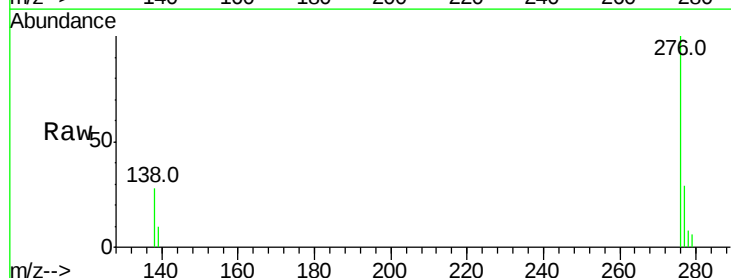
Tgt Ion:276 Resp: 38477

Ion Ratio Lower Upper

276 100

138 28.5 21.8 32.8

277 28.6 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

