

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE020615\  
 Data File : BE089535.D  
 Acq On : 6 Feb 2015 20:23  
 Operator : TP/IZ  
 Sample : G1238-01  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 MW1

Quant Time: Feb 07 04:39:02 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SIMPAH-BE020615.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Feb 07 04:07:57 2015  
 Response via : Initial Calibration

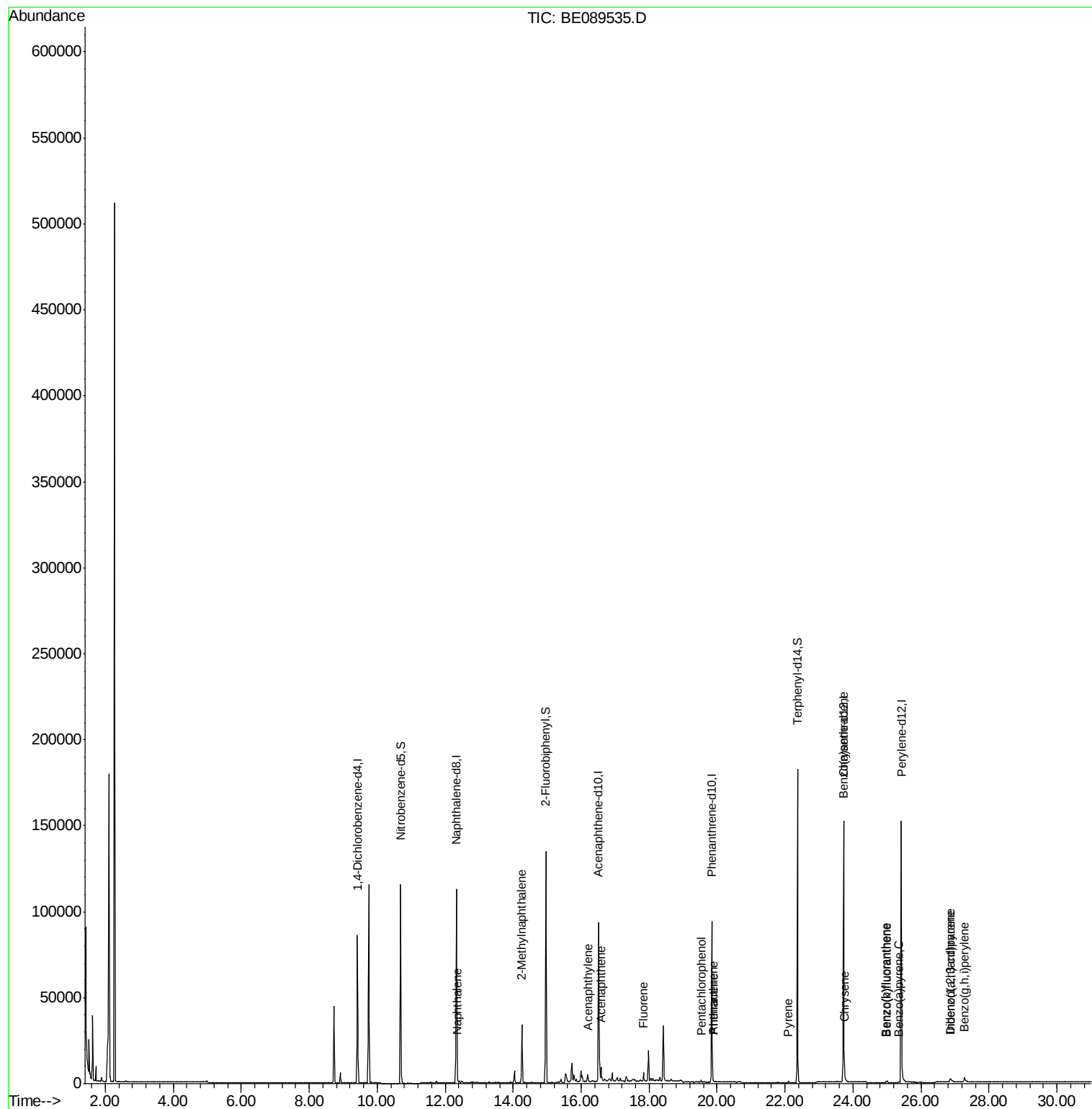
| Internal Standards          | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 9.42  | 152  | 36246    | 5.00 | ng    | 0.00     |
| 2) Naphthalene-d8           | 12.33 | 136  | 136210   | 5.00 | ng    | 0.00     |
| 6) Acenaphthene-d10         | 16.51 | 164  | 55622    | 5.00 | ng    | 0.00     |
| 11) Phenanthrene-d10        | 19.85 | 188  | 105479   | 5.00 | ng    | 0.00     |
| 16) Chrysene-d12            | 23.72 | 240  | 124833   | 5.00 | ng    | 0.00     |
| 22) Perylene-d12            | 25.41 | 264  | 135223   | 5.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |      |       |          |
| 3) Nitrobenzene-d5          | 10.69 | 82   | 83274    | 9.21 | ng    | 0.00     |
| 7) 2-Fluorobiphenyl         | 14.96 | 172  | 128641   | 8.67 | ng    | 0.00     |
| 18) Terphenyl-d14           | 22.36 | 244  | 149182   | 9.06 | ng    | 0.00     |
| Target Compounds            |       |      |          |      |       | Qvalue   |
| 4) Naphthalene              | 12.37 | 128  | 1383     | 0.05 | ng    | # 1      |
| 5) 2-Methylnaphthalene      | 14.26 | 142  | 21894    | 1.26 | ng    | 94       |
| 8) Acenaphthylene           | 16.19 | 152  | 2013     | 0.02 | ng    | # 1      |
| 9) Acenaphthene             | 16.59 | 154  | 1620     | 0.11 | ng    | # 77     |
| 10) Fluorene                | 17.84 | 166  | 2748     | 0.17 | ng    | # 96     |
| 12) Pentachlorophenol       | 19.52 | 266  | 46       | 0.59 | ng    | # 71     |
| 13) Phenanthrene            | 19.89 | 178  | 1287     | 0.05 | ng    | 97       |
| 14) Anthracene              | 19.89 | 178  | 1287     | 0.06 | ng    | 97       |
| 17) Pyrene                  | 22.10 | 202  | 631      | 0.02 | ng    | 98       |
| 19) Benzo(a)anthracene      | 23.71 | 228  | 3997     | 0.04 | ng    | # 87     |
| 20) Chrysene                | 23.75 | 228  | 3283     | 0.03 | ng    | # 81     |
| 21) Indeno(1,2,3-cd)pyrene  | 26.85 | 276  | 4486     | 0.03 | ng    | 95       |
| 23) Benzo(b)fluoranthene    | 24.98 | 252  | 666      | 0.03 | ng    | # 70     |
| 24) Benzo(k)fluoranthene    | 25.00 | 252  | 1020     | 0.03 | ng    | # 66     |
| 25) Benzo(a)pyrene          | 25.35 | 252  | 555      | 0.02 | ng    | # 37     |
| 26) Dibenzo(a,h)anthracene  | 26.88 | 278  | 981      | 0.03 | ng    | # 61     |
| 27) Benzo(g,h,i)perylene    | 27.28 | 276  | 5287     | 0.04 | ng    | # 81     |

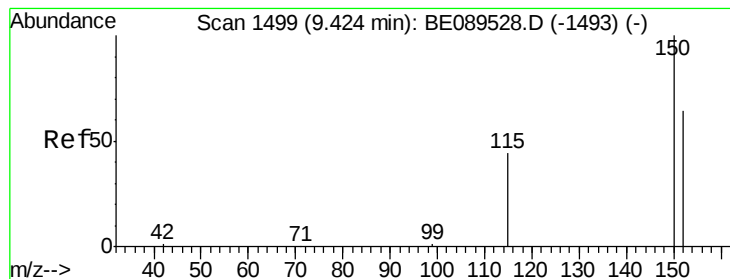
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE020615\  
Data File : BE089535.D  
Acq On : 6 Feb 2015 20:23  
Operator : TP/IZ  
Sample : G1238-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
MW1

Quant Time: Feb 07 04:39:02 2015  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SIMPAH-BE020615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Feb 07 04:07:57 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1498

Delta R.T. -0.00 min

Lab File: BE089535.D

Acq: 6 Feb 2015 20:23

Instrument :

BNA\_E

ClientSampleId :

MW1

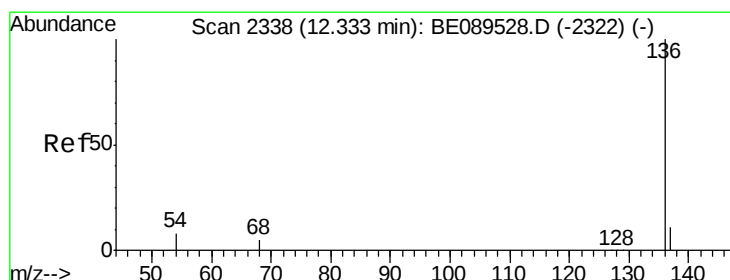
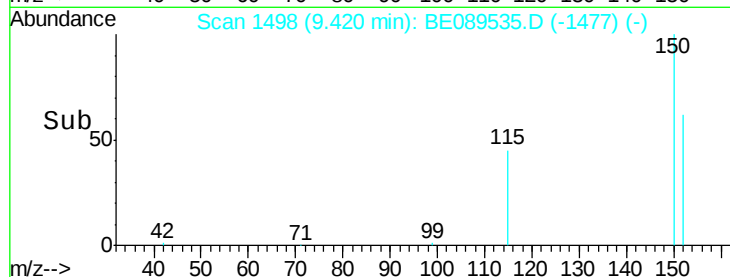
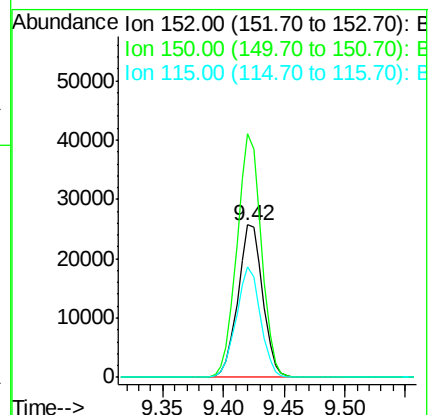
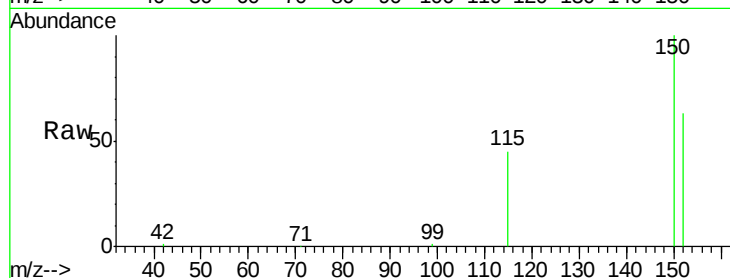
Tgt Ion:152 Resp: 36246

Ion Ratio Lower Upper

152 100

150 159.9 125.7 188.5

115 72.4 55.6 83.4



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.33 min Scan# 2338

Delta R.T. -0.00 min

Lab File: BE089535.D

Acq: 6 Feb 2015 20:23

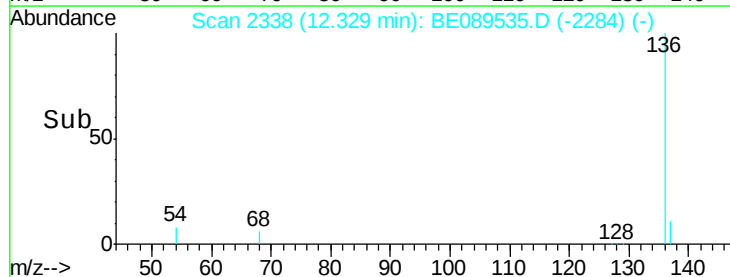
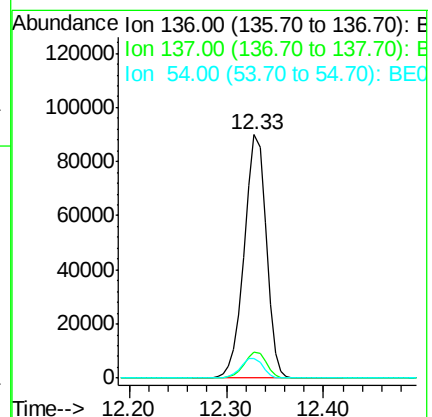
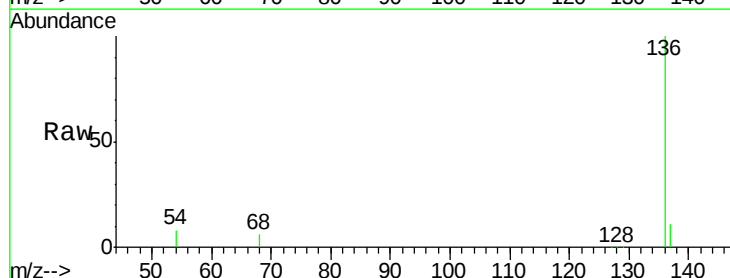
Tgt Ion:136 Resp: 136210

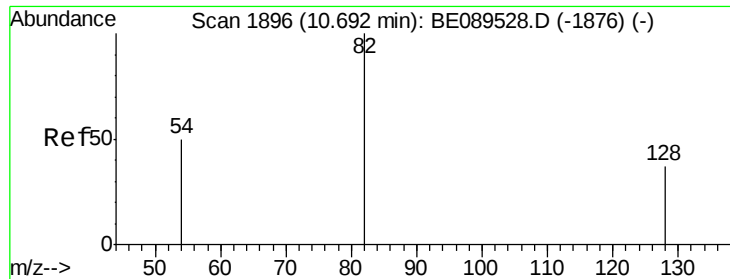
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 8.3 6.1 9.1





#3

Nitrobenzene-d5

Concen: 9.21 ng

RT: 10.69 min Scan# 1896

Delta R.T. -0.00 min

Lab File: BE089535.D

Acq: 6 Feb 2015 20:23

Instrument :

BNA\_E

ClientSampleId :

MW1

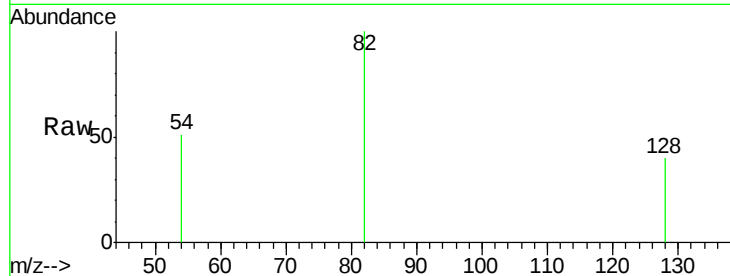
Tgt Ion: 82 Resp: 83274

Ion Ratio Lower Upper

82 100

128 39.8 30.2 45.4

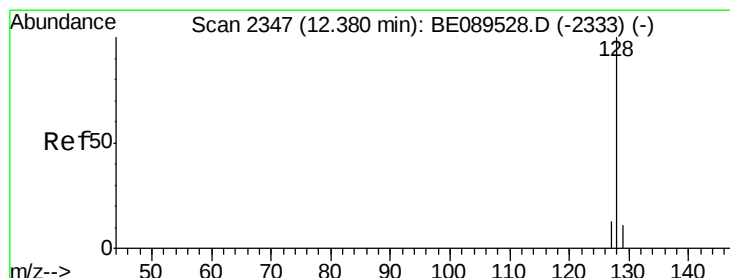
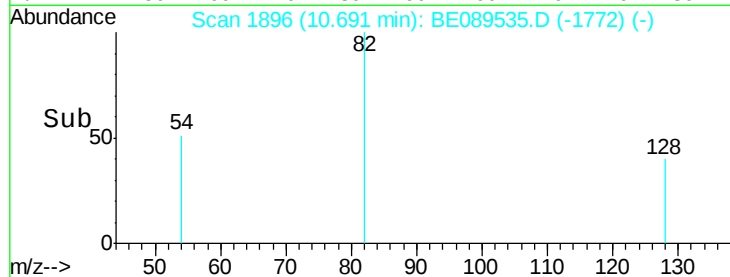
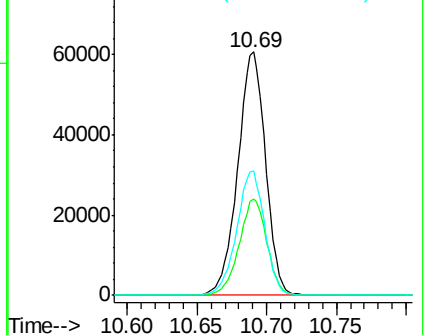
54 51.1 40.6 60.8



Abundance Ion 82.00 (81.70 to 82.70): BE089535.D (-1772) (-)

Ion 128.00 (127.70 to 128.70): BE089535.D (-1772) (-)

Ion 54.00 (53.70 to 54.70): BE089535.D (-1772) (-)



#4

Naphthalene

Concen: 0.05 ng

RT: 12.37 min Scan# 2345

Delta R.T. -0.01 min

Lab File: BE089535.D

Acq: 6 Feb 2015 20:23

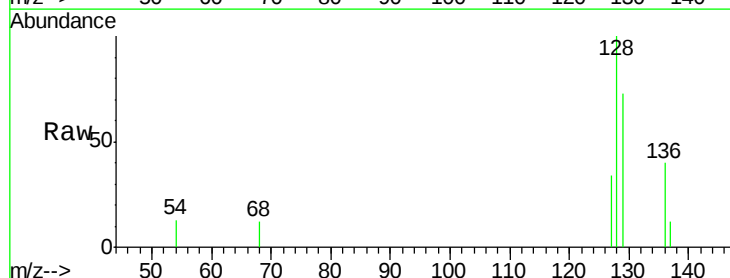
Tgt Ion: 128 Resp: 1383

Ion Ratio Lower Upper

128 100

129 72.8 9.1 13.7#

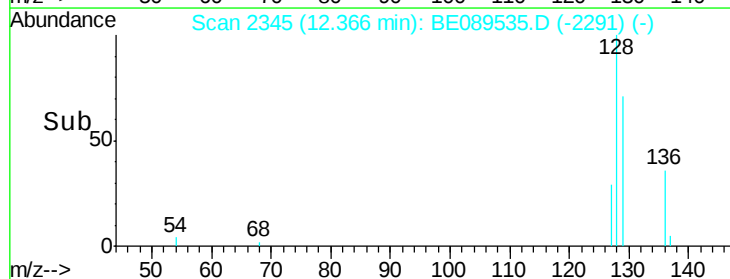
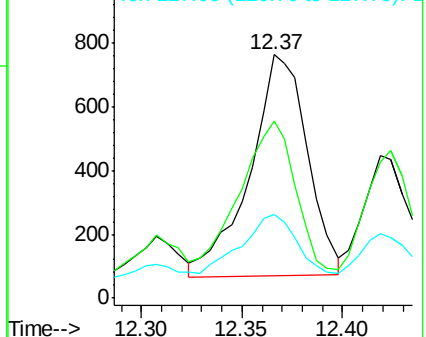
127 34.4 10.5 15.7#



Abundance Ion 128.00 (127.70 to 128.70): BE089535.D (-2291) (-)

Ion 129.00 (128.70 to 129.70): BE089535.D (-2291) (-)

Ion 127.00 (126.70 to 127.70): BE089535.D (-2291) (-)





#5

2-Methylnaphthalene

Concen: 1.26 ng

RT: 14.26 min Scan# 2728

Delta R.T. 0.22 min

Lab File: BE089535.D

Acq: 6 Feb 2015 20:23

Instrument :

BNA\_E

ClientSampleId :

MW1

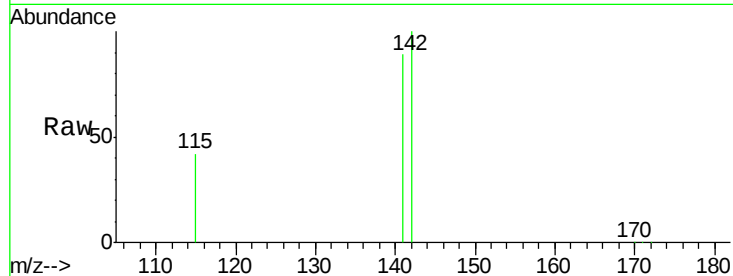
Tgt Ion:142 Resp: 21894

Ion Ratio Lower Upper

142 100

141 89.0 67.0 100.6

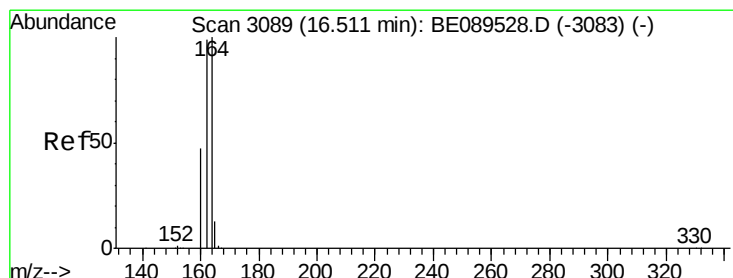
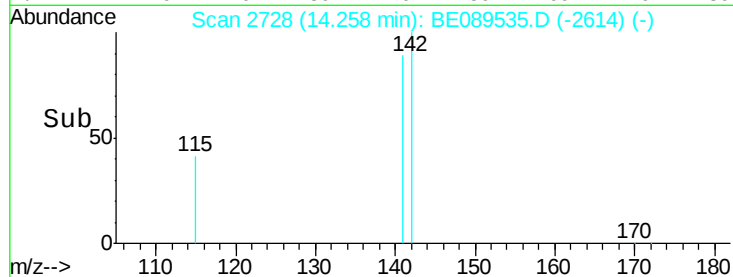
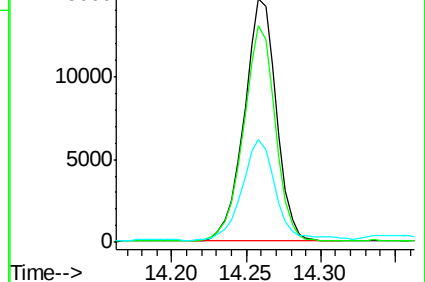
115 42.3 30.6 45.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.51 min Scan# 3090

Delta R.T. 0.00 min

Lab File: BE089535.D

Acq: 6 Feb 2015 20:23

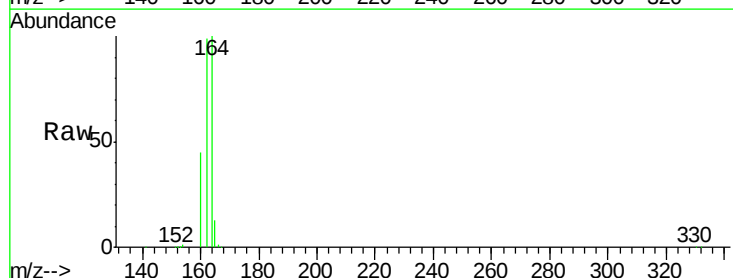
Tgt Ion:164 Resp: 55622

Ion Ratio Lower Upper

164 100

162 98.6 79.5 119.3

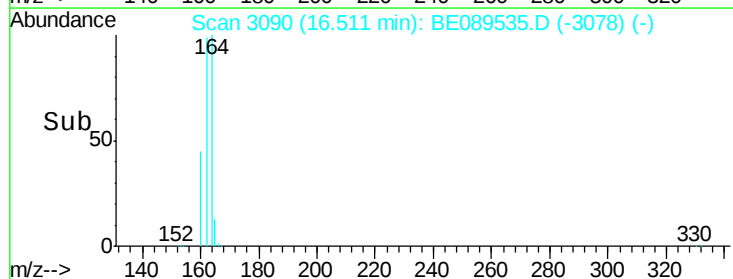
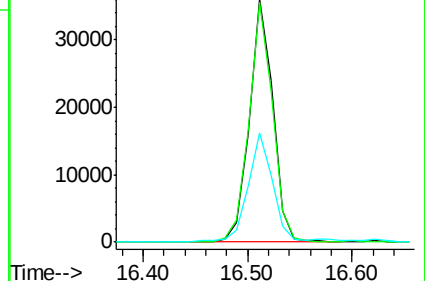
160 45.0 37.6 56.4



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 8.67 ng

RT: 14.96 min Scan# 2883

Delta R.T. 0.00 min

Lab File: BE089535.D

Acq: 6 Feb 2015 20:23

Instrument :

BNA\_E

ClientSampleId :

MW1

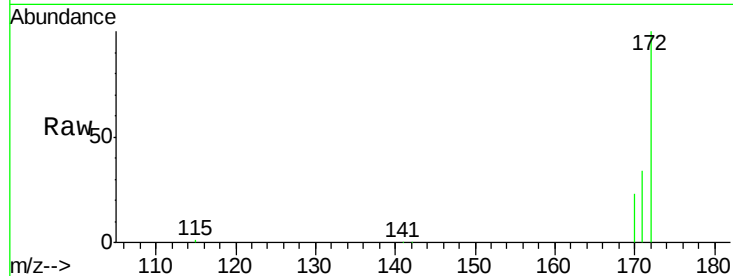
Tgt Ion:172 Resp: 128641

Ion Ratio Lower Upper

172 100

171 34.2 27.7 41.5

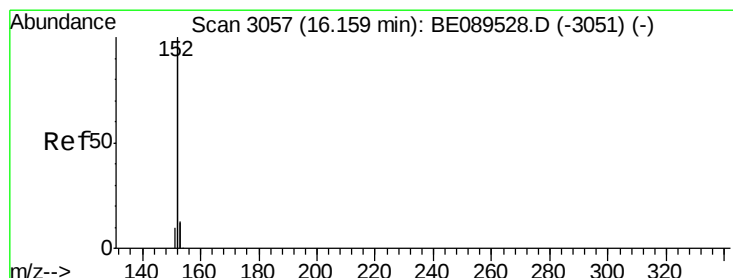
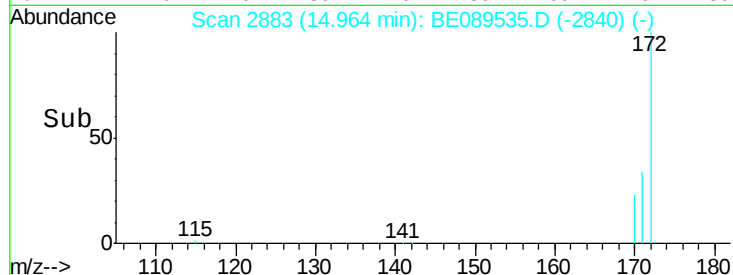
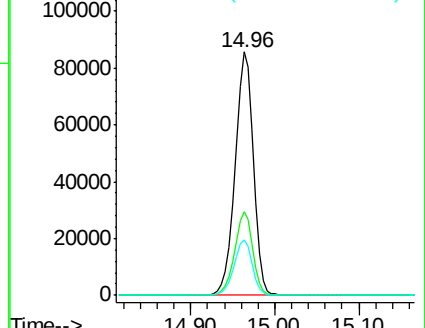
170 22.7 18.3 27.5



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#8

Acenaphthylene

Concen: 0.02 ng

RT: 16.19 min Scan# 3061

Delta R.T. 0.03 min

Lab File: BE089535.D

Acq: 6 Feb 2015 20:23

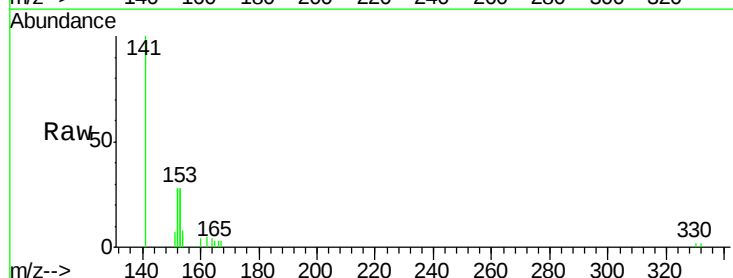
Tgt Ion:152 Resp: 2013

Ion Ratio Lower Upper

152 100

151 9.6 4.0 6.0#

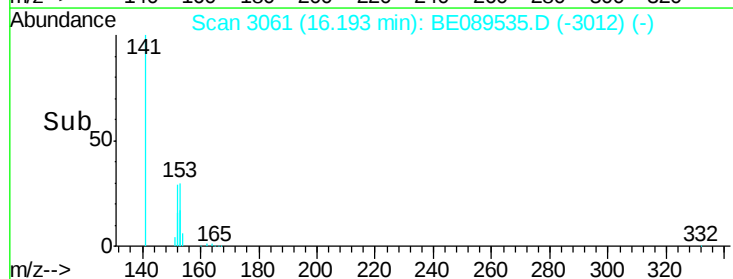
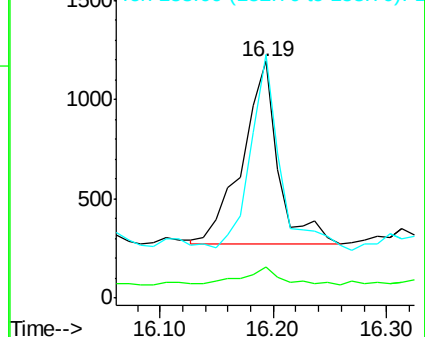
153 88.8 10.6 15.8#

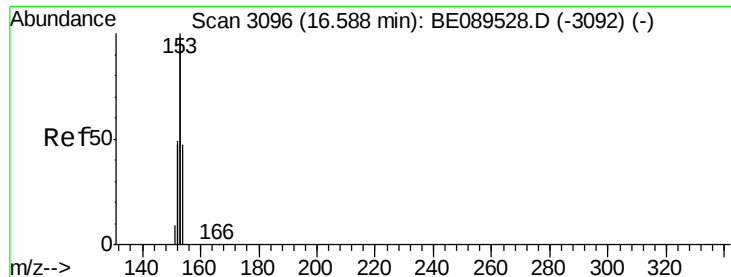


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.11 ng

RT: 16.59 min Scan# 3097

Delta R.T. 0.00 min

Lab File: BE089535.D

Acq: 6 Feb 2015 20:23

Instrument :

BNA\_E

ClientSampleId :

MW1

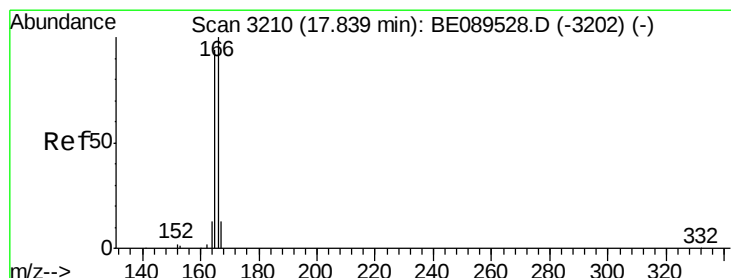
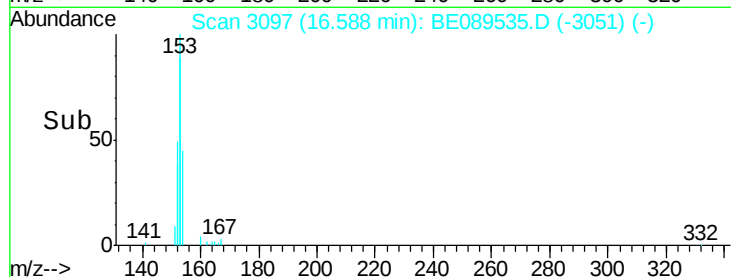
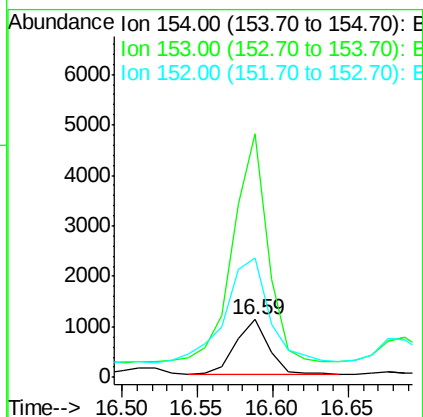
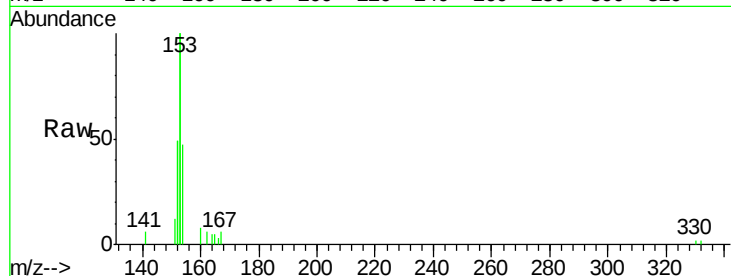
Tgt Ion:154 Resp: 1620

Ion Ratio Lower Upper

154 100

153 462.8 340.8 511.2

152 267.6 165.5 248.3#



#10

Fluorene

Concen: 0.17 ng

RT: 17.84 min Scan# 3211

Delta R.T. 0.00 min

Lab File: BE089535.D

Acq: 6 Feb 2015 20:23

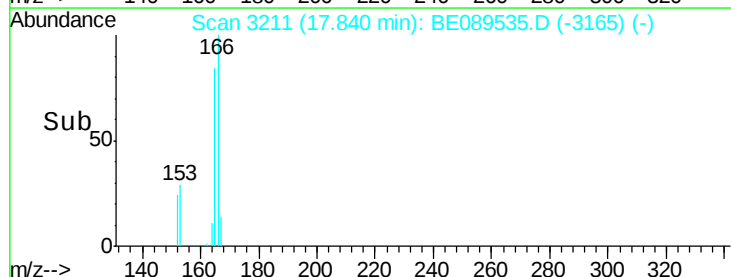
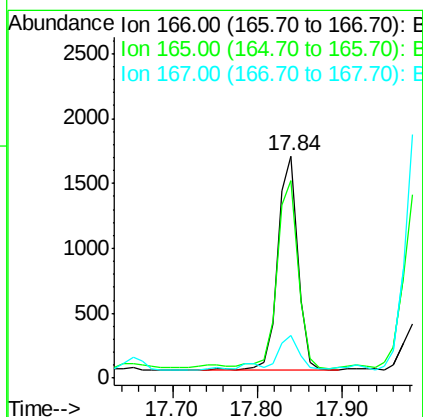
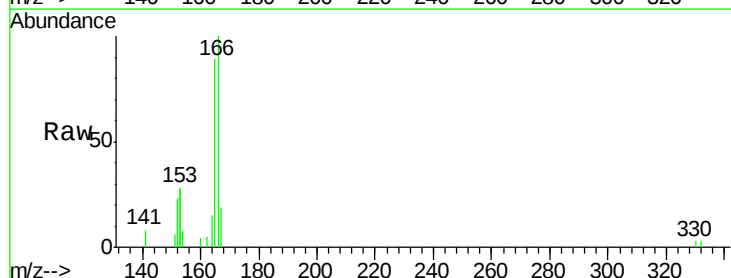
Tgt Ion:166 Resp: 2748

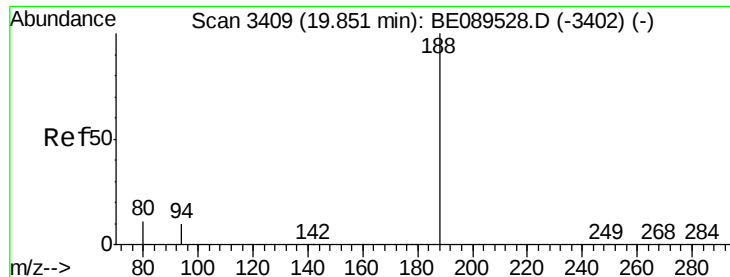
Ion Ratio Lower Upper

166 100

165 92.4 75.5 113.3

167 21.1 10.9 16.3#

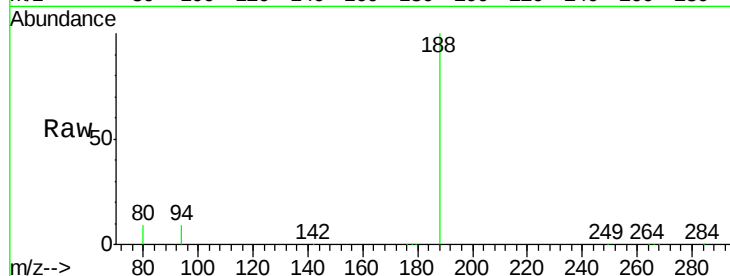




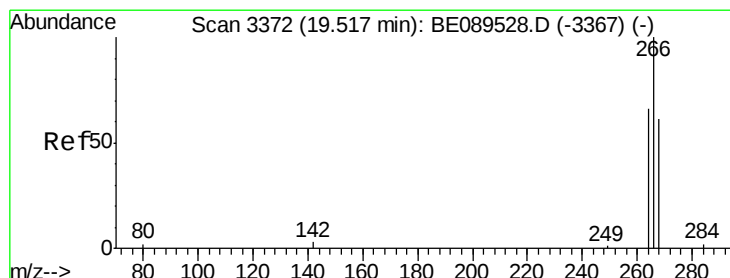
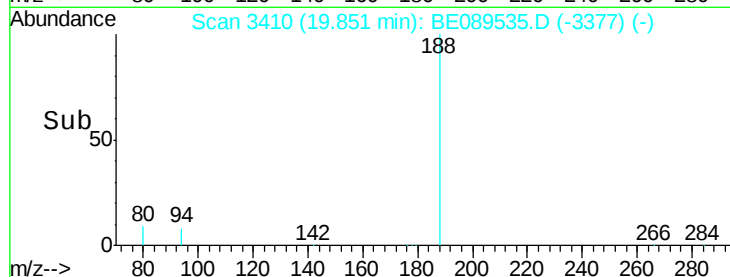
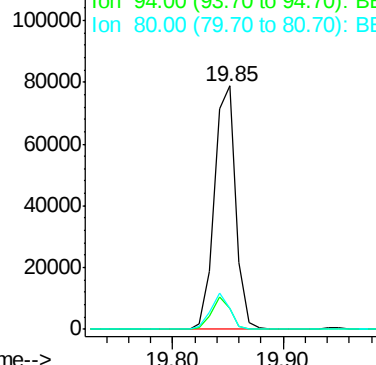
#11  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 19.85 min Scan# 3410  
Delta R.T. 0.00 min  
Lab File: BE089535.D  
Acq: 6 Feb 2015 20:23

Instrument :  
BNA\_E  
ClientSampleId :  
MW1

Tgt Ion:188 Resp: 105479  
Ion Ratio Lower Upper  
188 100  
94 8.5 8.4 12.6  
80 8.7 8.6 12.8

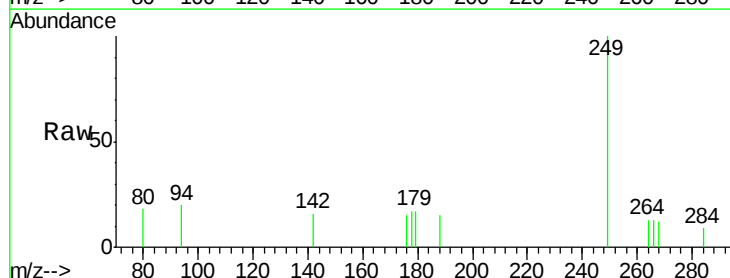


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BE0  
Ion 80.00 (79.70 to 80.70): BE0

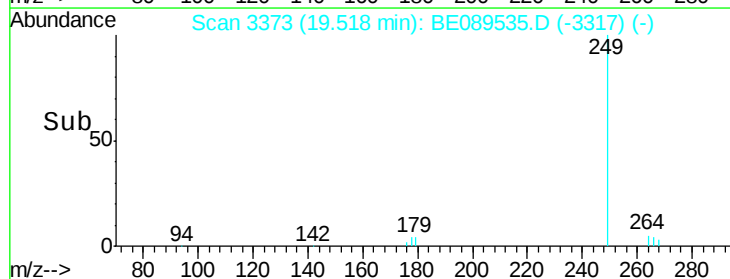
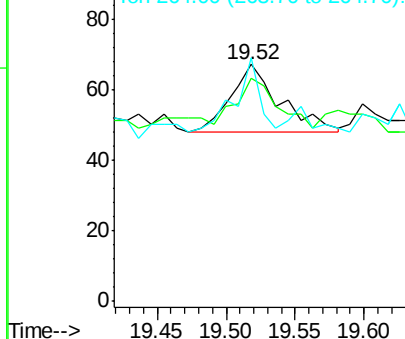


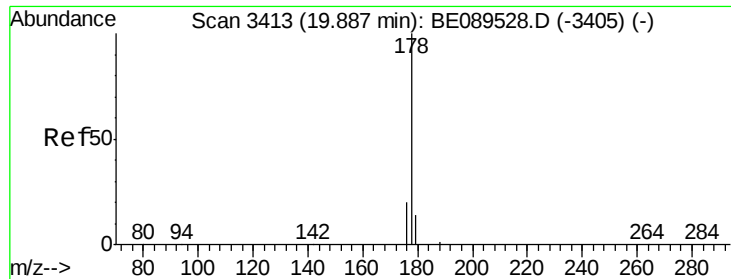
#12  
Pentachlorophenol  
Concen: 0.59 ng  
RT: 19.52 min Scan# 3373  
Delta R.T. 0.00 min  
Lab File: BE089535.D  
Acq: 6 Feb 2015 20:23

Tgt Ion:266 Resp: 46  
Ion Ratio Lower Upper  
266 100  
268 94.0 57.9 86.9#  
264 103.0 60.2 90.4#



Abundance Ion 265.70 (265.40 to 266.40): E  
Ion 268.00 (267.70 to 268.70): E  
Ion 264.00 (263.70 to 264.70): E





#13

Phenanthrene

Concen: 0.05 ng

RT: 19.89 min Scan# 3414

Delta R.T. 0.00 min

Lab File: BE089535.D

Acq: 6 Feb 2015 20:23

Instrument :

BNA\_E

ClientSampleId :

MW1

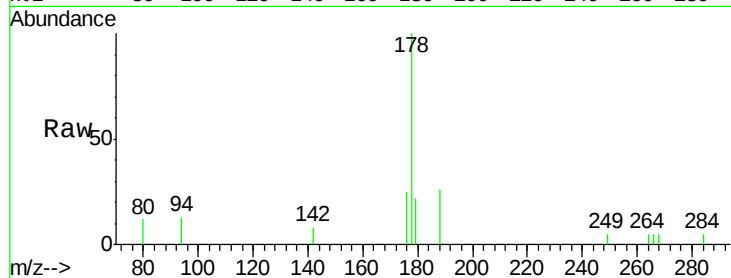
Tgt Ion:178 Resp: 1287

Ion Ratio Lower Upper

178 100

176 21.3 15.4 23.0

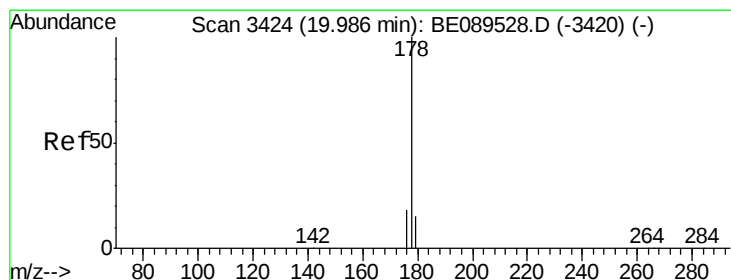
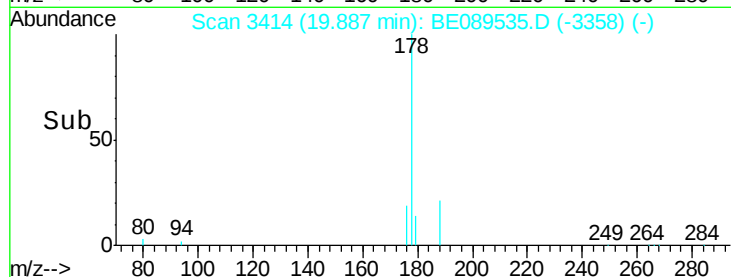
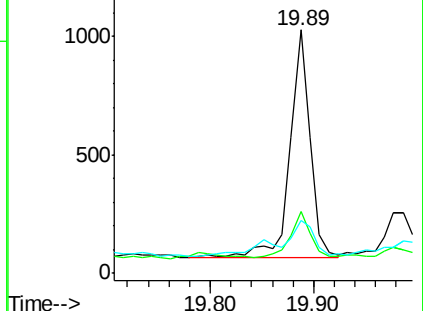
179 15.2 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#14

Anthracene

Concen: 0.06 ng

RT: 19.89 min Scan# 3414

Delta R.T. -0.10 min

Lab File: BE089535.D

Acq: 6 Feb 2015 20:23

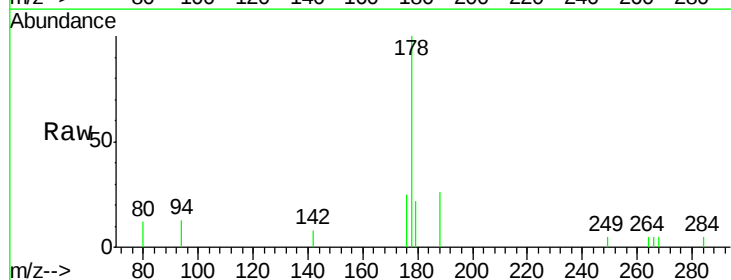
Tgt Ion:178 Resp: 1287

Ion Ratio Lower Upper

178 100

176 20.9 14.5 21.7

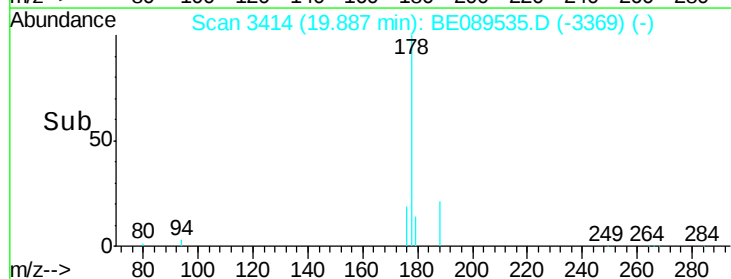
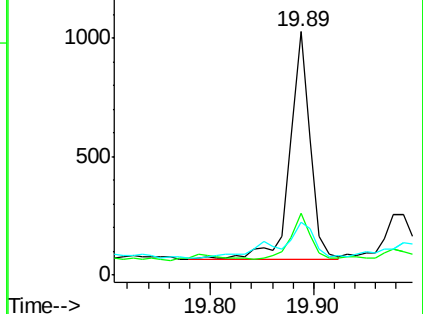
179 15.2 12.2 18.2

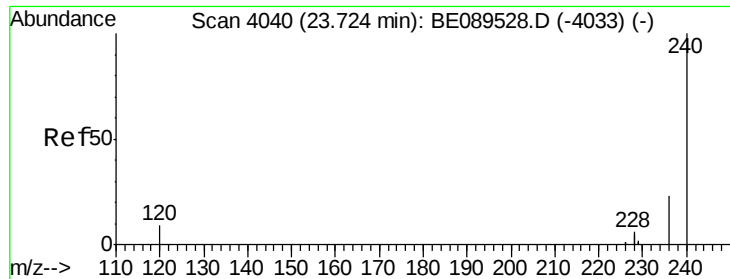


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

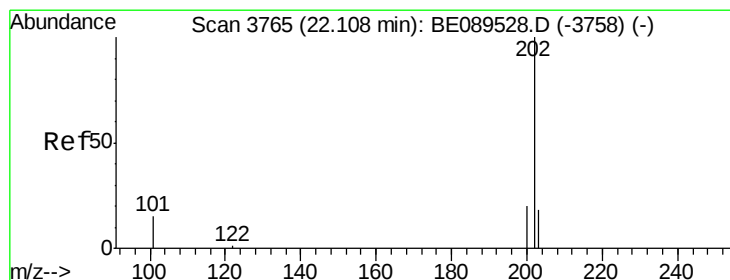
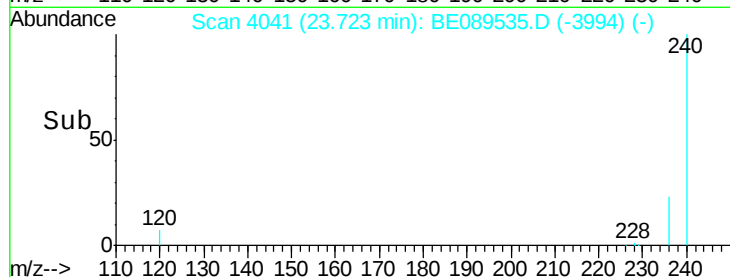
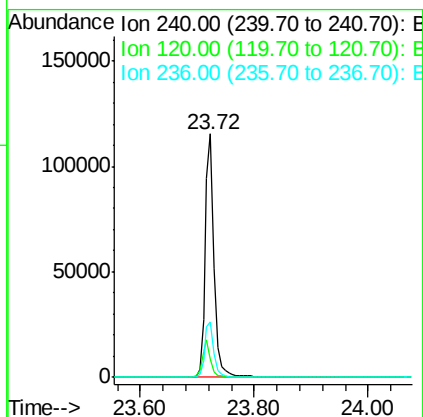
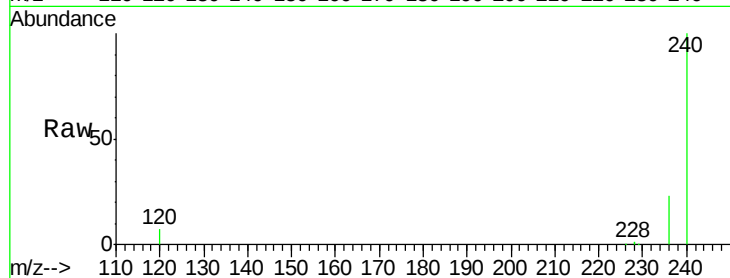




#16  
Chrysene-d12  
Concen: 5.00 ng  
RT: 23.72 min Scan# 4041  
Delta R.T. -0.00 min  
Lab File: BE089535.D  
Acq: 6 Feb 2015 20:23

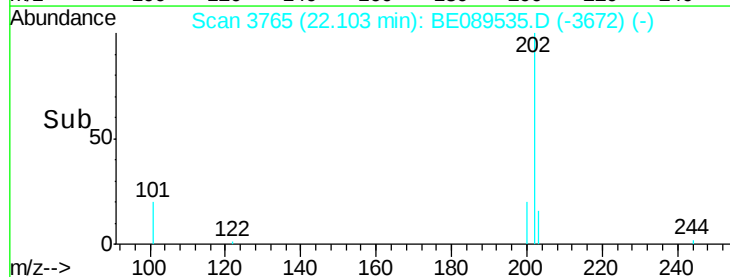
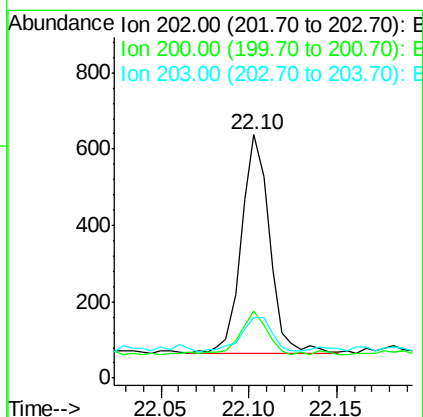
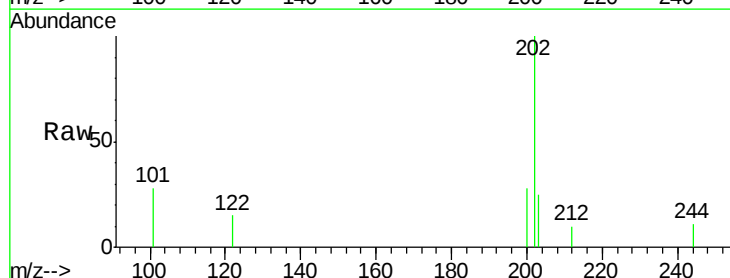
Instrument :  
BNA\_E  
ClientSampleId :  
MW1

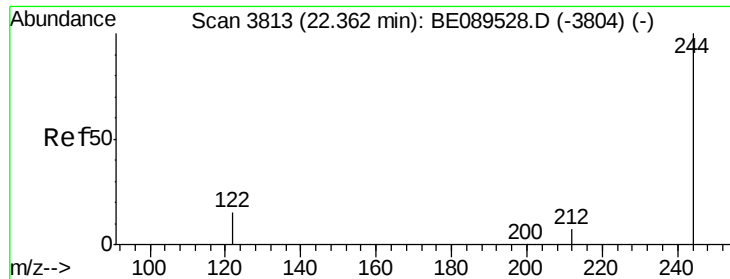
Tgt Ion: 240 Resp: 124833  
Ion Ratio Lower Upper  
240 100  
120 7.5 7.2 10.8  
236 22.9 18.5 27.7



#17  
Pyrene  
Concen: 0.02 ng  
RT: 22.10 min Scan# 3765  
Delta R.T. -0.00 min  
Lab File: BE089535.D  
Acq: 6 Feb 2015 20:23

Tgt Ion: 202 Resp: 631  
Ion Ratio Lower Upper  
202 100  
200 21.2 16.3 24.5  
203 18.1 13.5 20.3





#18

Terphenyl-d14

Concen: 9.06 ng

RT: 22.36 min Scan# 3814

Delta R.T. 0.00 min

Lab File: BE089535.D

Acq: 6 Feb 2015 20:23

Instrument :

BNA\_E

ClientSampleId :

MW1

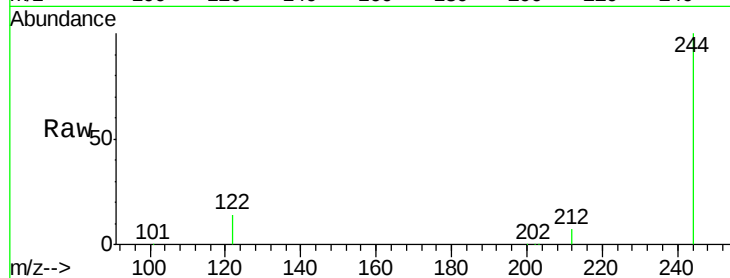
Tgt Ion:244 Resp: 149182

Ion Ratio Lower Upper

244 100

212 6.8 5.8 8.8

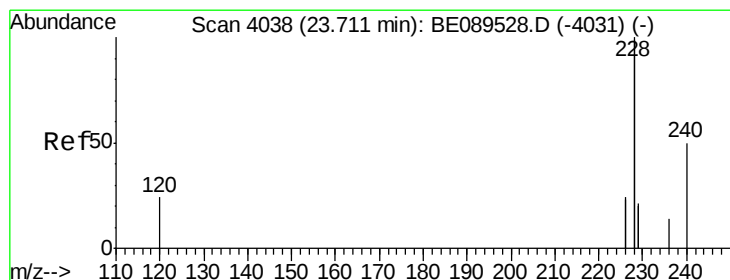
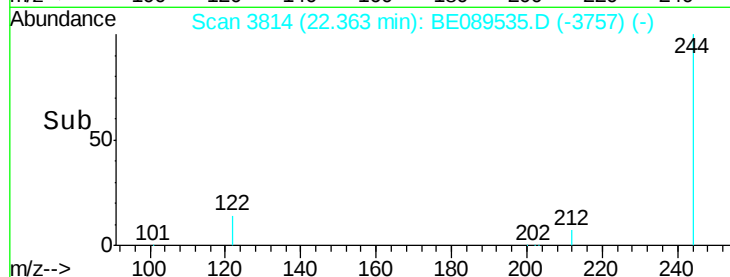
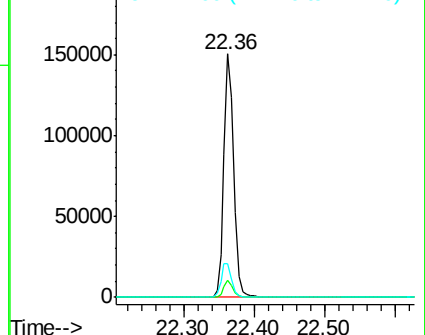
122 14.0 12.6 19.0



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#19

Benzo(a)anthracene

Concen: 0.04 ng

RT: 23.71 min Scan# 4039

Delta R.T. -0.00 min

Lab File: BE089535.D

Acq: 6 Feb 2015 20:23

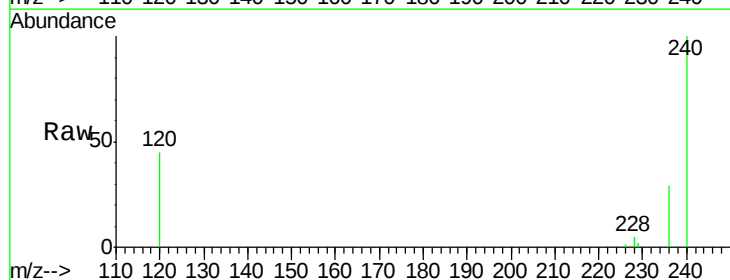
Tgt Ion:228 Resp: 3997

Ion Ratio Lower Upper

228 100

226 27.7 19.0 28.4

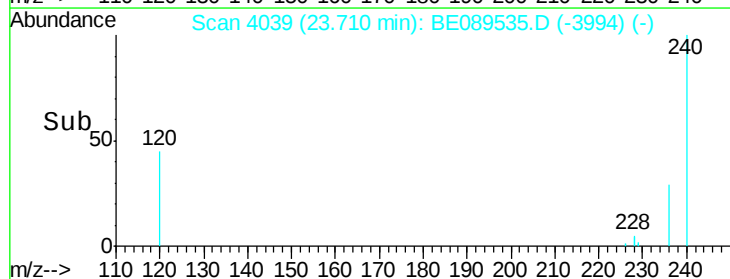
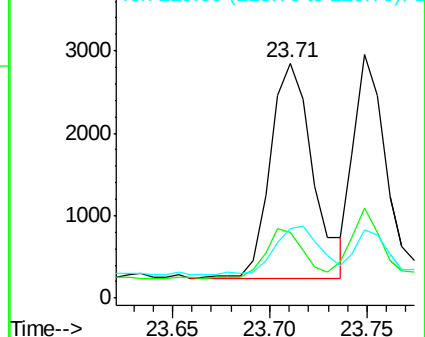
229 29.4 16.8 25.2#

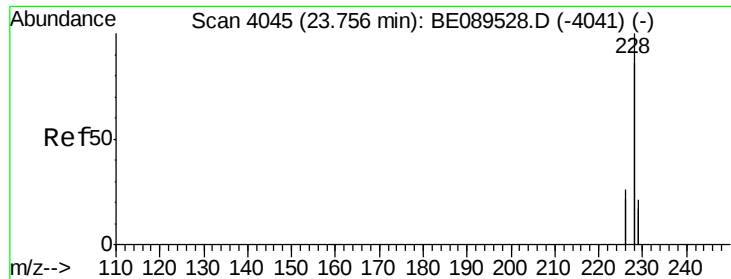


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#20

Chrysene

Concen: 0.03 ng

RT: 23.75 min Scan# 4045

Delta R.T. -0.01 min

Lab File: BE089535.D

Acq: 6 Feb 2015 20:23

Instrument :

BNA\_E

ClientSampleId :

MW1

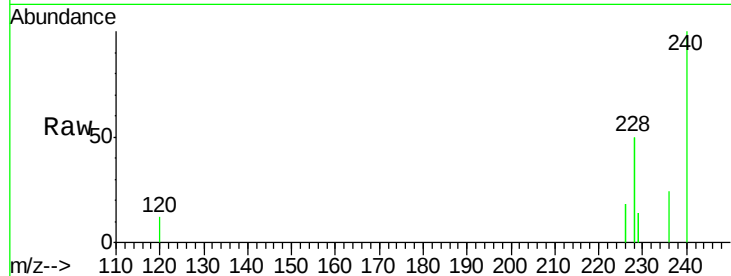
Tgt Ion:228 Resp: 3283

Ion Ratio Lower Upper

228 100

226 37.0 21.0 31.4#

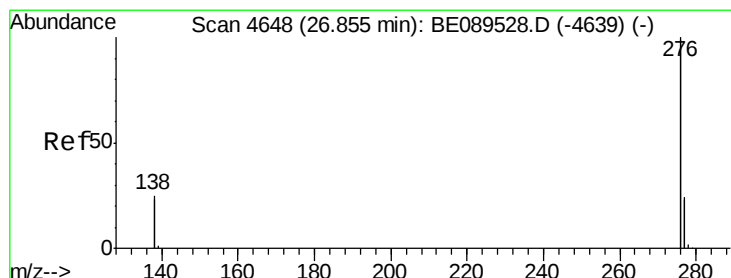
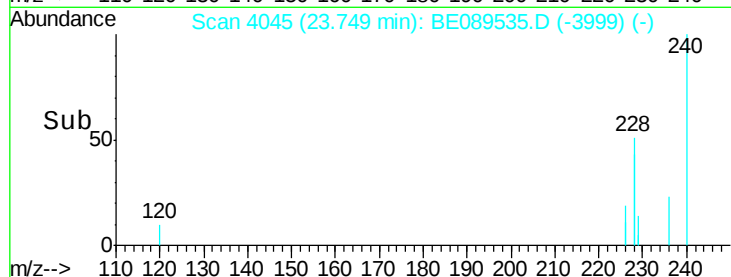
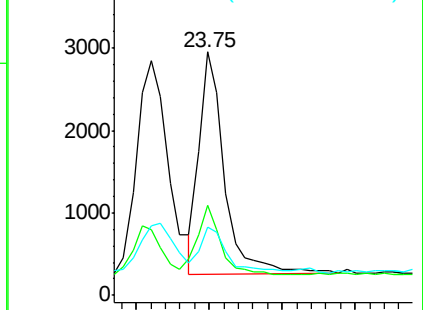
229 28.0 16.7 25.1#



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

Indeno(1,2,3-cd)pyrene

Concen: 0.03 ng

RT: 26.85 min Scan# 4649

Delta R.T. 0.00 min

Lab File: BE089535.D

Acq: 6 Feb 2015 20:23

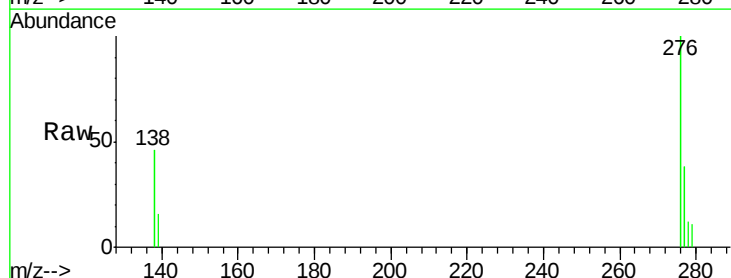
Tgt Ion:276 Resp: 4486

Ion Ratio Lower Upper

276 100

138 32.1 23.0 34.4

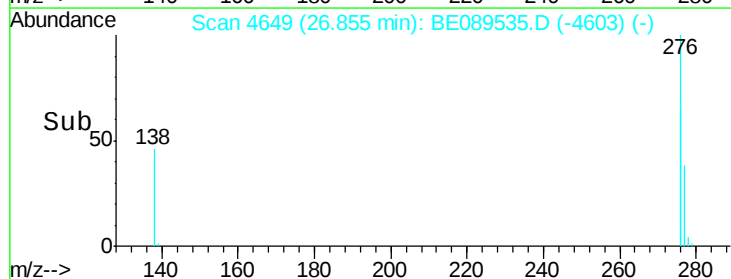
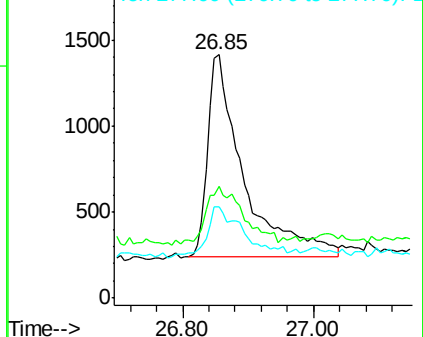
277 26.5 19.9 29.9

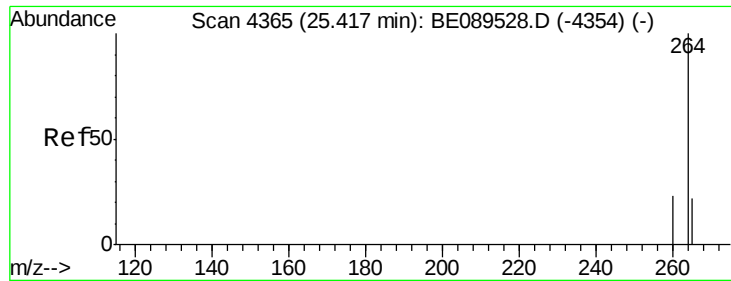


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

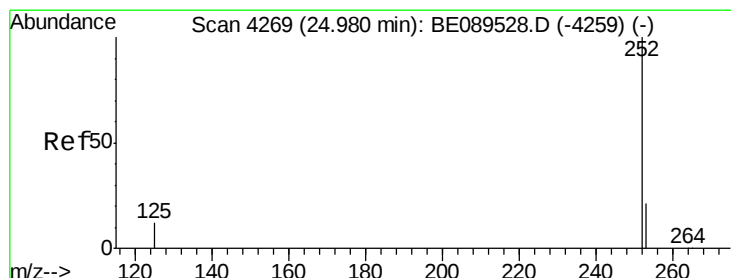
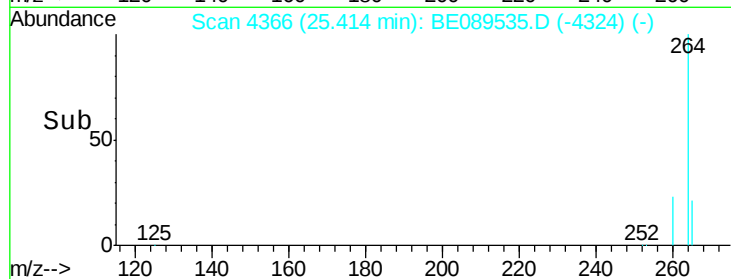
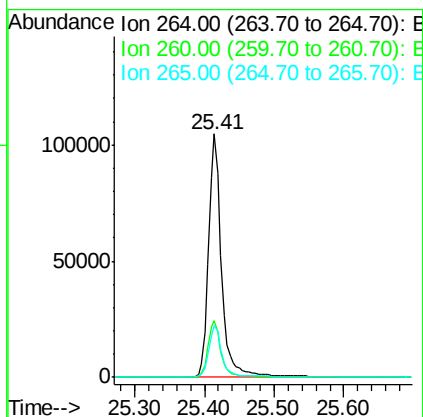
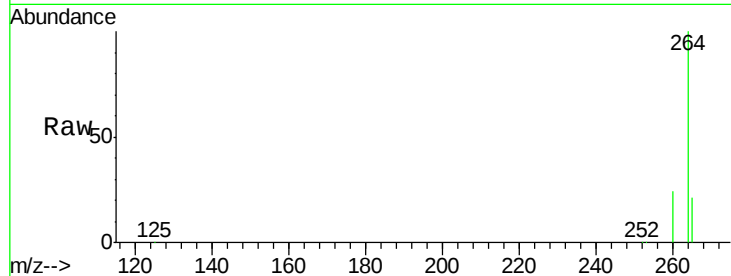




#22  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 25.41 min Scan# 4366  
 Delta R.T. -0.00 min  
 Lab File: BE089535.D  
 Acq: 6 Feb 2015 20:23

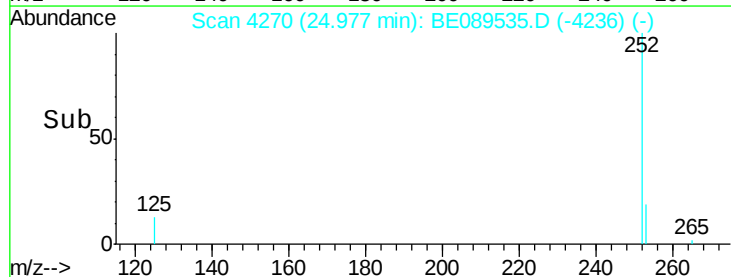
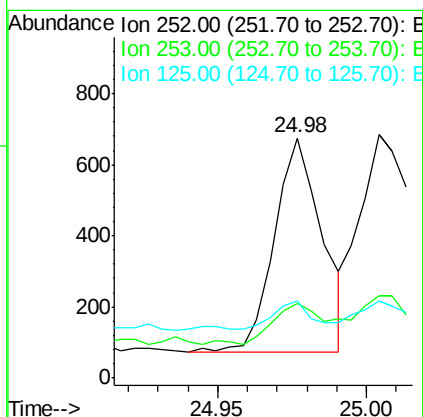
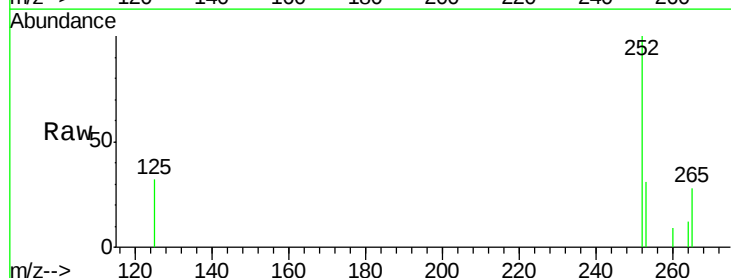
Instrument :  
 BNA\_E  
 ClientSampleId :  
 MW1

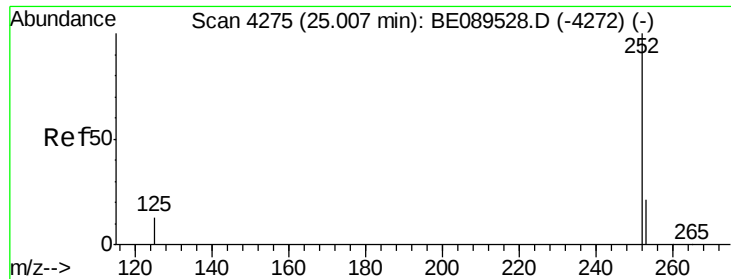
Tgt Ion:264 Resp: 135223  
 Ion Ratio Lower Upper  
 264 100  
 260 23.5 18.7 28.1  
 265 21.3 17.5 26.3



#23  
 Benzo(b)fluoranthene  
 Concen: 0.03 ng  
 RT: 24.98 min Scan# 4270  
 Delta R.T. -0.00 min  
 Lab File: BE089535.D  
 Acq: 6 Feb 2015 20:23

Tgt Ion:252 Resp: 666  
 Ion Ratio Lower Upper  
 252 100  
 253 30.8 17.4 26.0#  
 125 32.0 10.4 15.6#

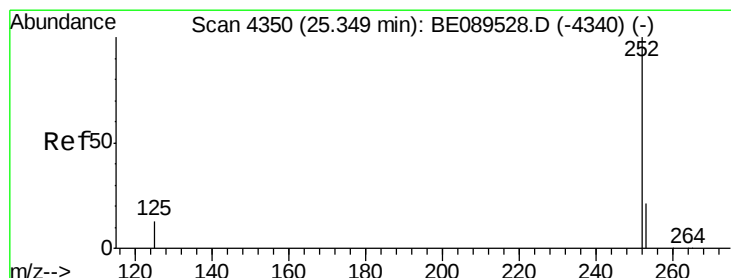
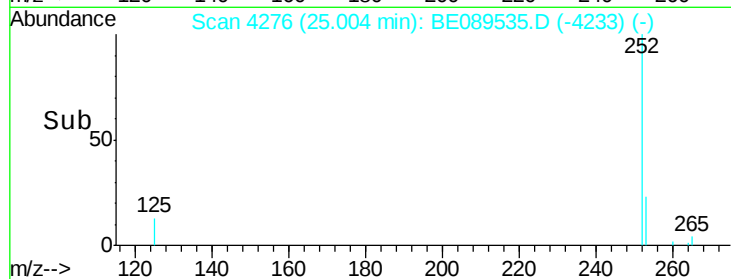
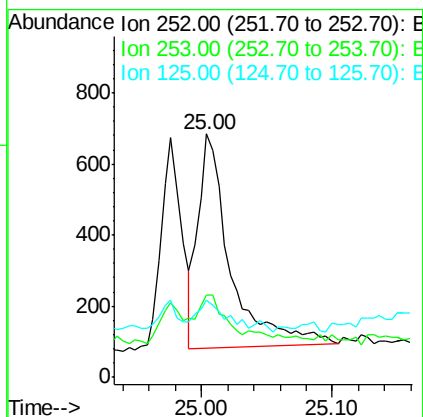
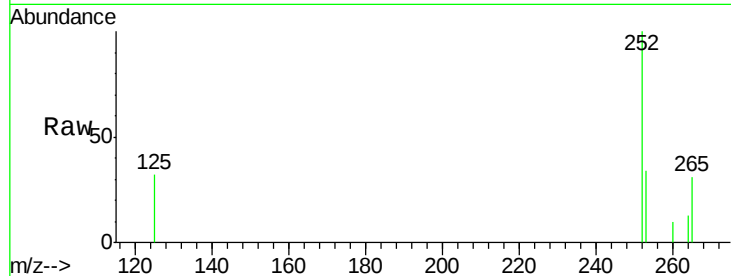




#24  
Benzo(k)fluoranthene  
Concen: 0.03 ng  
RT: 25.00 min Scan# 4276  
Delta R.T. -0.00 min  
Lab File: BE089535.D  
Acq: 6 Feb 2015 20:23

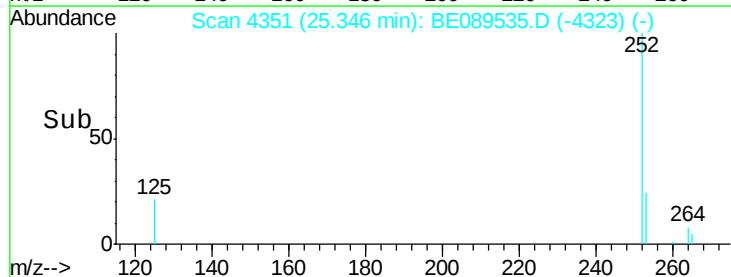
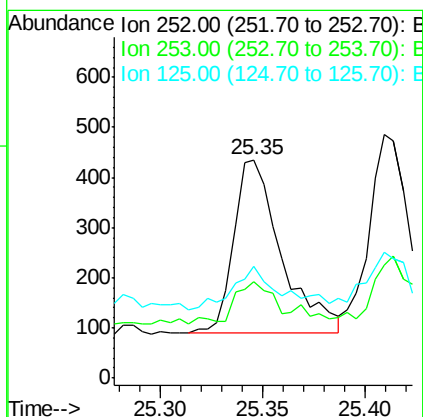
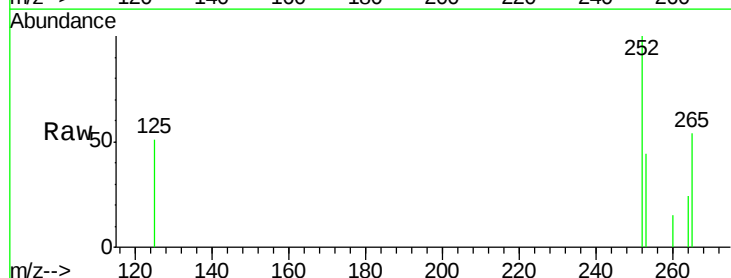
Instrument :  
BNA\_E  
ClientSampleId :  
MW1

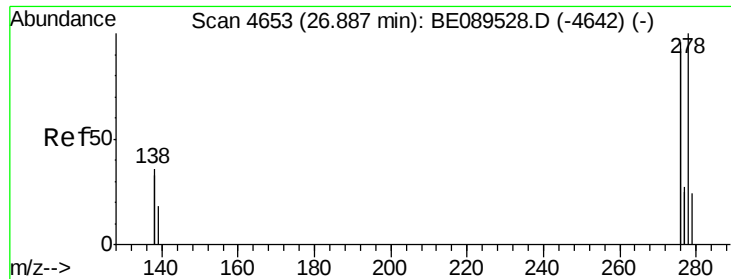
Tgt Ion: 252 Resp: 1020  
Ion Ratio Lower Upper  
252 100  
253 34.0 17.2 25.8#  
125 31.7 10.6 15.8#



#25  
Benzo(a)pyrene  
Concen: 0.02 ng  
RT: 25.35 min Scan# 4351  
Delta R.T. -0.00 min  
Lab File: BE089535.D  
Acq: 6 Feb 2015 20:23

Tgt Ion: 252 Resp: 555  
Ion Ratio Lower Upper  
252 100  
253 43.9 17.8 26.6#  
125 51.3 11.4 17.2#





#26

Dibenzo(a,h)anthracene

Concen: 0.03 ng

RT: 26.88 min Scan# 4653

Delta R.T. -0.01 min

Lab File: BE089535.D

Acq: 6 Feb 2015 20:23

Instrument :

BNA\_E

ClientSampleId :

MW1

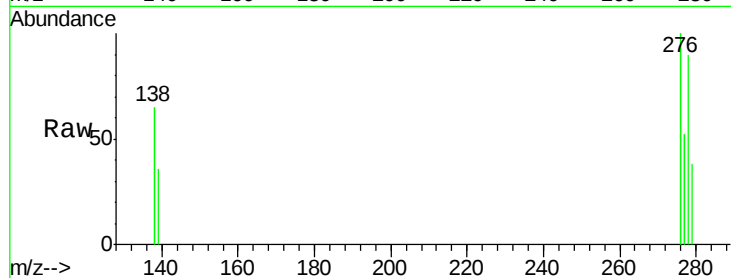
Tgt Ion:278 Resp: 981

Ion Ratio Lower Upper

278 100

139 40.1 15.7 23.5#

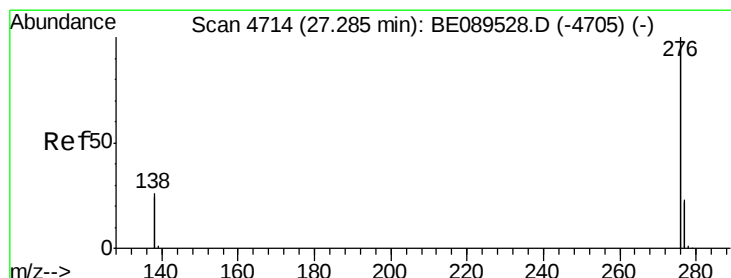
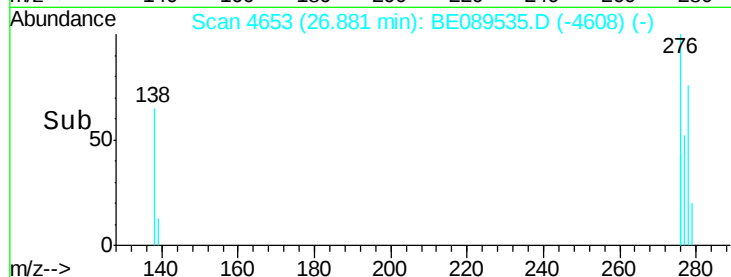
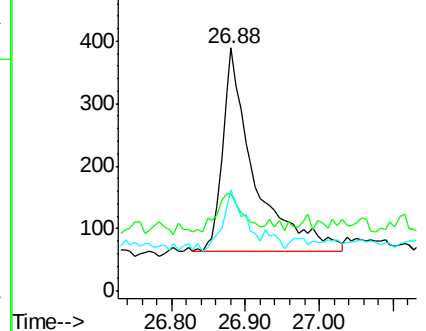
279 41.6 19.5 29.3#



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



#27

Benzo(g,h,i)perylene

Concen: 0.04 ng

RT: 27.28 min Scan# 4714

Delta R.T. -0.01 min

Lab File: BE089535.D

Acq: 6 Feb 2015 20:23

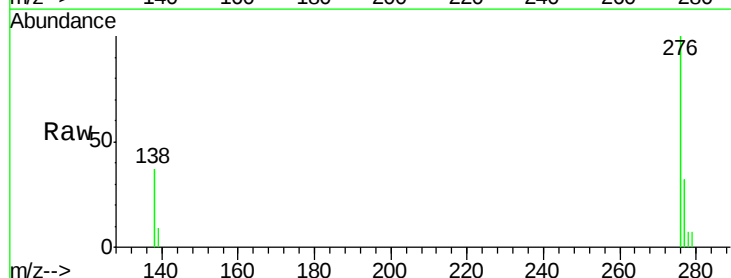
Tgt Ion:276 Resp: 5287

Ion Ratio Lower Upper

276 100

277 31.9 18.6 27.8#

138 36.8 20.9 31.3#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

