

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE020515\  
 Data File : BE089506.D  
 Acq On : 5 Feb 2015 15:23  
 Operator : TP/IZ  
 Sample : SSTDICC0.2  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 LabSampleId :  
 SSTDICC0.2

Quant Time: Feb 06 02:50:16 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SIMPAH-BE020515.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 06 02:40:17 2015  
 Response via : Initial Calibration

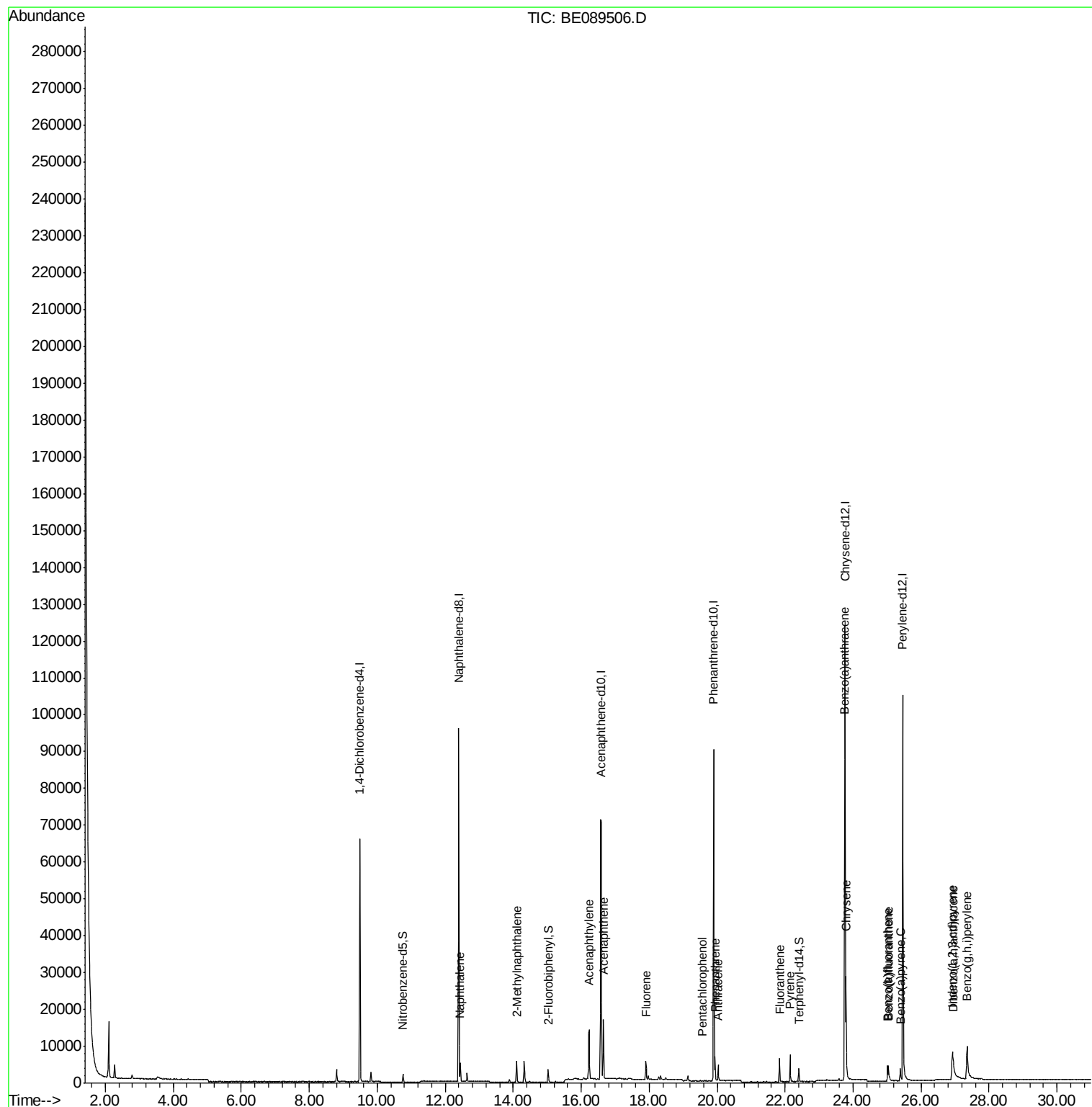
| Internal Standards          | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 9.49  | 152  | 26545    | 5.00 | ng    | 0.00     |
| 2) Naphthalene-d8           | 12.40 | 136  | 106754   | 5.00 | ng    | 0.00     |
| 6) Acenaphthene-d10         | 16.59 | 164  | 47143    | 5.00 | ng    | 0.00     |
| 11) Phenanthrene-d10        | 19.91 | 188  | 89596    | 5.00 | ng    | 0.00     |
| 16) Chrysene-d12            | 23.76 | 240  | 95581    | 5.00 | ng    | 0.00     |
| 22) Perylene-d12            | 25.46 | 264  | 95807    | 5.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |      |       |          |
| 3) Nitrobenzene-d5          | 10.76 | 82   | 1613     | 0.20 | ng    | 0.00     |
| 7) 2-Fluorobiphenyl         | 15.03 | 172  | 3043     | 0.20 | ng    | 0.00     |
| 18) Terphenyl-d14           | 22.40 | 244  | 3079     | 0.19 | ng    | 0.00     |
| Target Compounds            |       |      |          |      |       | Qvalue   |
| 4) Naphthalene              | 12.44 | 128  | 5632     | 0.21 | ng    | 99       |
| 5) 2-Methylnaphthalene      | 14.10 | 142  | 3471     | 0.20 | ng    | 97       |
| 8) Acenaphthylene           | 16.24 | 152  | 19162    | 0.19 | ng    | 99       |
| 9) Acenaphthene             | 16.65 | 154  | 3137     | 0.20 | ng    | 97       |
| 10) Fluorene                | 17.91 | 166  | 3173     | 0.18 | ng    | 95       |
| 12) Pentachlorophenol       | 19.57 | 266  | 9        | 0.01 | ng    | # 76     |
| 13) Phenanthrene            | 19.94 | 178  | 5406     | 0.20 | ng    | 98       |
| 14) Anthracene              | 20.03 | 178  | 4284     | 0.18 | ng    | 97       |
| 15) Fluoranthene            | 21.83 | 202  | 4754     | 0.18 | ng    | 100      |
| 17) Pyrene                  | 22.15 | 202  | 5083     | 0.19 | ng    | 99       |
| 19) Benzo(a)anthracene      | 23.75 | 228  | 19945    | 0.19 | ng    | 99       |
| 20) Chrysene                | 23.79 | 228  | 21047    | 0.20 | ng    | 98       |
| 21) Indeno(1,2,3-cd)pyrene  | 26.92 | 276  | 19081    | 0.17 | ng    | 99       |
| 23) Benzo(b)fluoranthene    | 25.02 | 252  | 3679     | 0.17 | ng    | # 96     |
| 24) Benzo(k)fluoranthene    | 25.05 | 252  | 5989     | 0.20 | ng    | 97       |
| 25) Benzo(a)pyrene          | 25.39 | 252  | 3809     | 0.17 | ng    | # 93     |
| 26) Dibenzo(a,h)anthracene  | 26.95 | 278  | 4254     | 0.18 | ng    | # 90     |
| 27) Benzo(g,h,i)perylene    | 27.36 | 276  | 18070    | 0.18 | ng    | 94       |

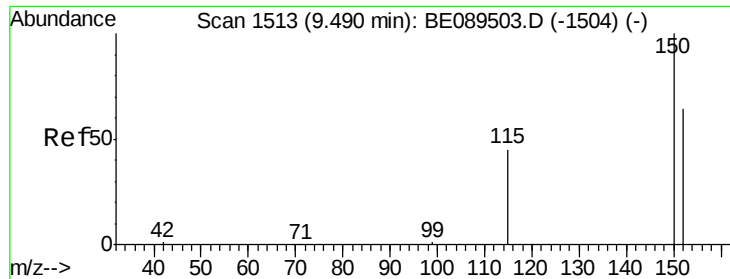
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.49 min Scan# 1513

Delta R.T. -0.00 min

Lab File: BE089506.D

Acq: 5 Feb 2015 15:23

Instrument :

BNA\_E

LabSampleId :

SSTDIC0.2

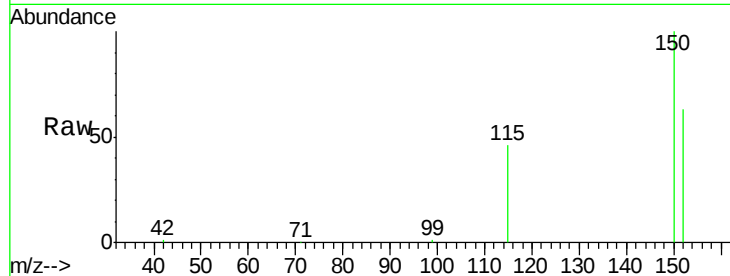
Tgt Ion:152 Resp: 26545

Ion Ratio Lower Upper

152 100

150 158.2 125.0 187.6

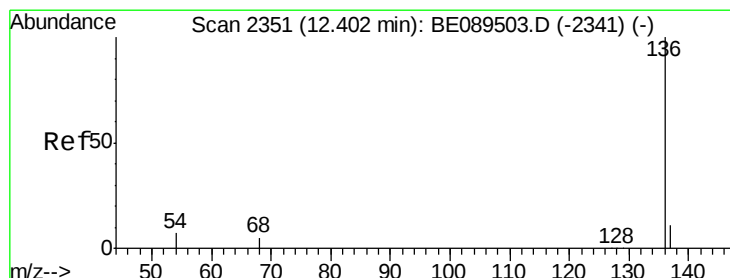
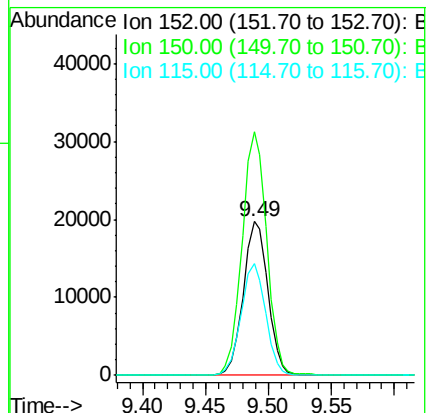
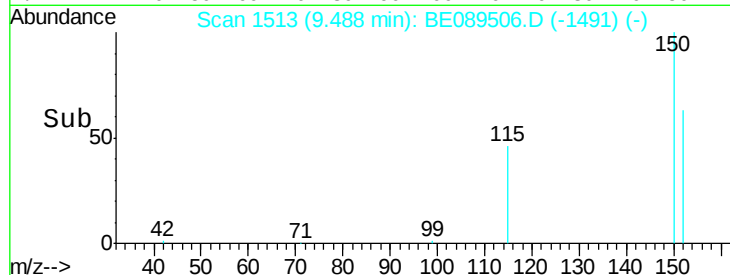
115 72.9 56.6 85.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.40 min Scan# 2350

Delta R.T. -0.00 min

Lab File: BE089506.D

Acq: 5 Feb 2015 15:23

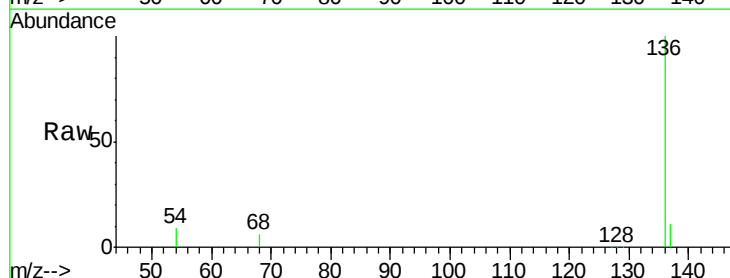
Tgt Ion:136 Resp: 106754

Ion Ratio Lower Upper

136 100

137 10.8 8.6 12.8

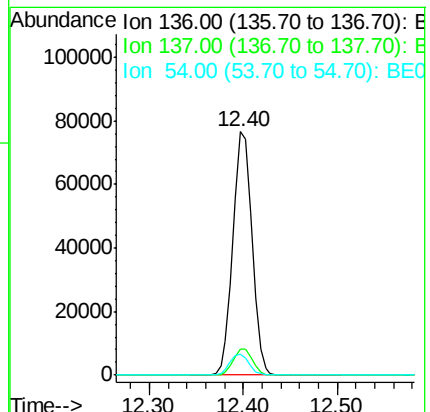
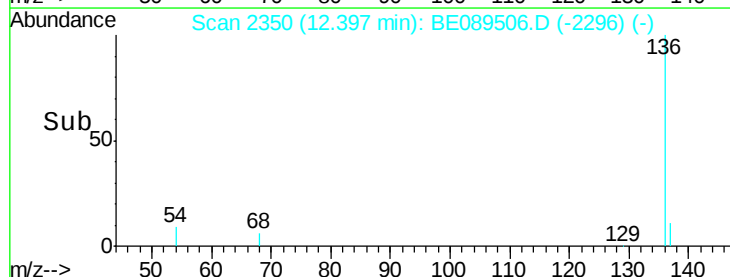
54 8.8 6.0 9.0

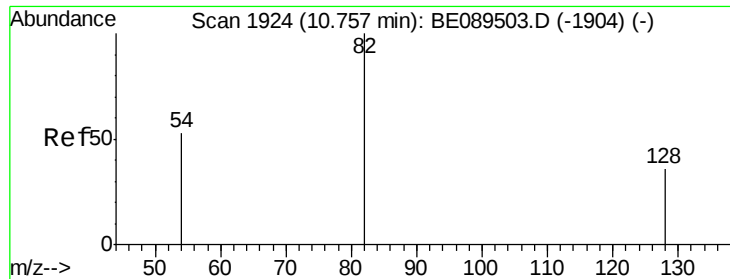


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 0.20 ng

RT: 10.76 min Scan# 1924

Delta R.T. -0.00 min

Lab File: BE089506.D

Acq: 5 Feb 2015 15:23

Instrument :

BNA\_E

LabSampleId :

SSTDIC0.2

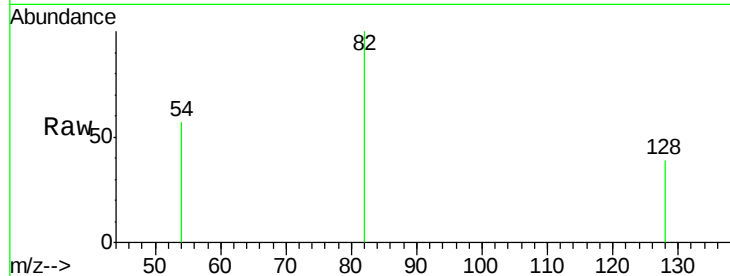
Tgt Ion: 82 Resp: 1613

Ion Ratio Lower Upper

82 100

128 38.9 29.3 43.9

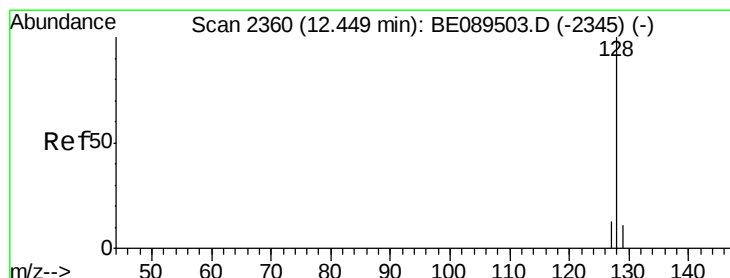
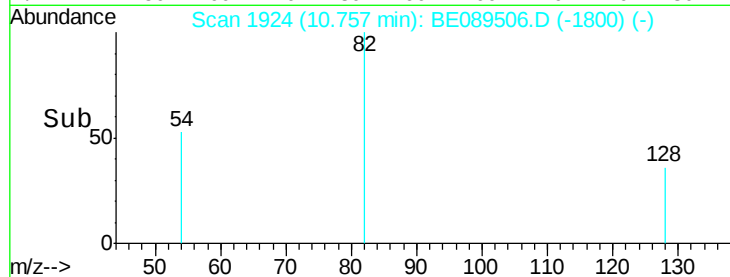
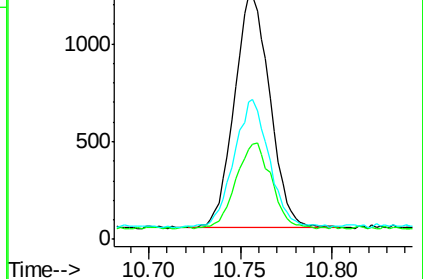
54 57.3 42.6 64.0



Abundance Ion 82.00 (81.70 to 82.70): BE089506.D (-1800) (-)

Ion 128.00 (127.70 to 128.70): BE089506.D (-1800) (-)

Ion 54.00 (53.70 to 54.70): BE089506.D (-1800) (-)



#4

Naphthalene

Concen: 0.21 ng

RT: 12.44 min Scan# 2359

Delta R.T. -0.00 min

Lab File: BE089506.D

Acq: 5 Feb 2015 15:23

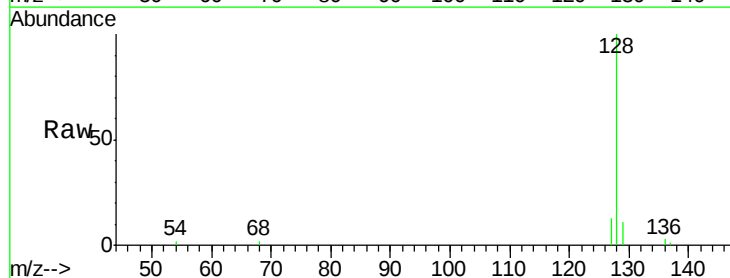
Tgt Ion: 128 Resp: 5632

Ion Ratio Lower Upper

128 100

129 10.8 8.8 13.2

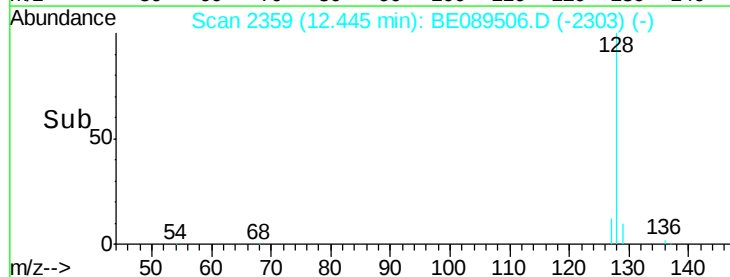
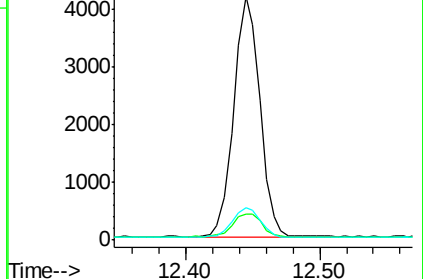
127 13.4 10.3 15.5

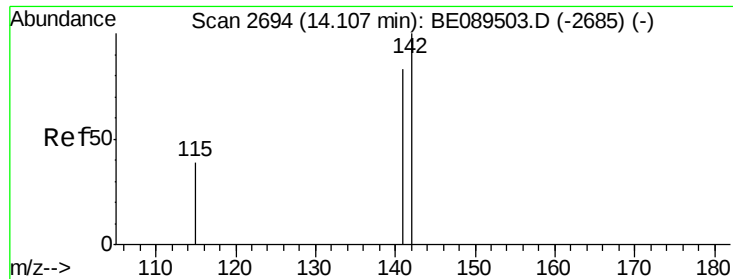


Abundance Ion 128.00 (127.70 to 128.70): BE089506.D (-2303) (-)

Ion 129.00 (128.70 to 129.70): BE089506.D (-2303) (-)

Ion 127.00 (126.70 to 127.70): BE089506.D (-2303) (-)





#5

2-Methylnaphthalene

Concen: 0.20 ng

RT: 14.10 min Scan# 2693

Delta R.T. -0.00 min

Lab File: BE089506.D

Acq: 5 Feb 2015 15:23

Instrument :

BNA\_E

LabSampleId :

SSTDIC0.2

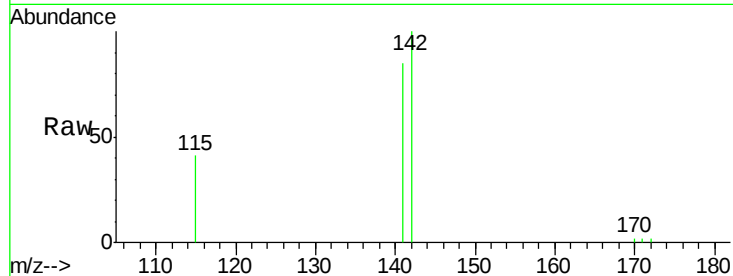
Tgt Ion:142 Resp: 3471

Ion Ratio Lower Upper

142 100

141 85.3 66.3 99.5

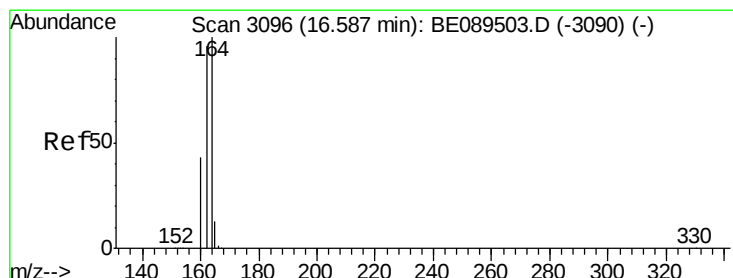
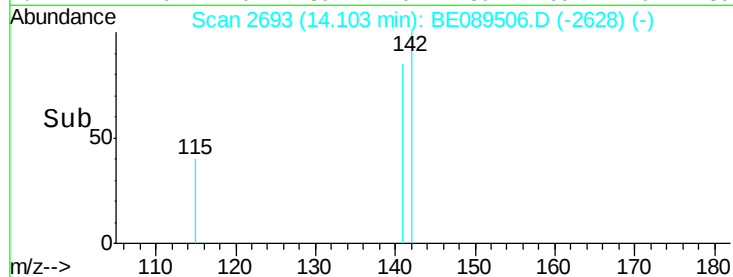
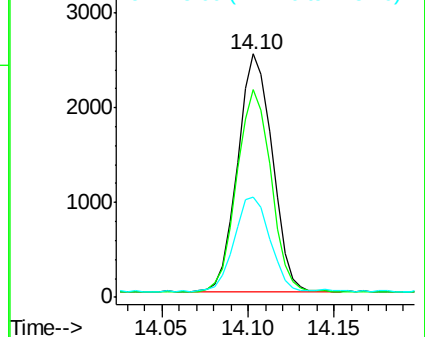
115 41.3 31.1 46.7



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: 16.59 min Scan# 3096

Delta R.T. 0.00 min

Lab File: BE089506.D

Acq: 5 Feb 2015 15:23

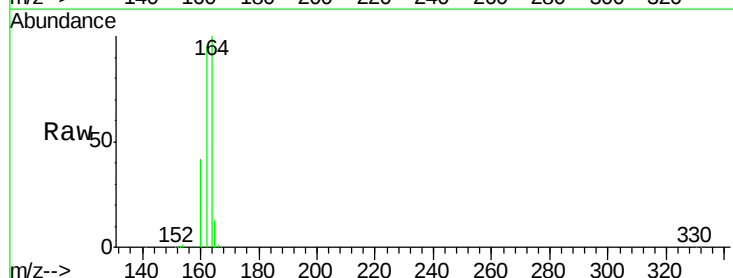
Tgt Ion:164 Resp: 47143

Ion Ratio Lower Upper

164 100

162 95.2 76.6 115.0

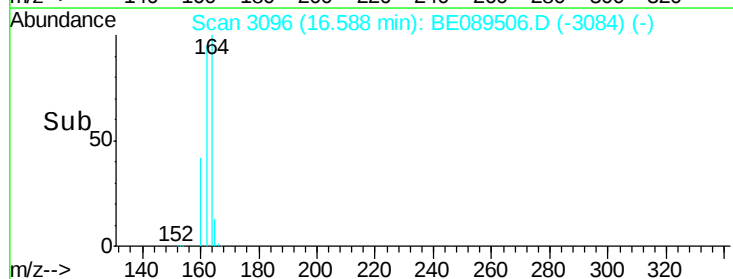
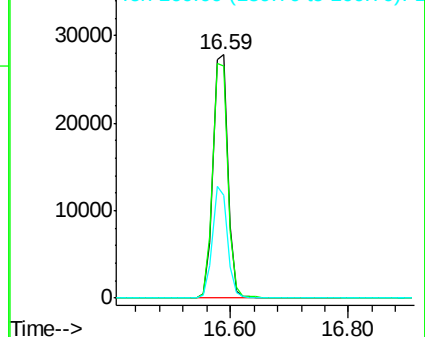
160 42.2 34.6 52.0

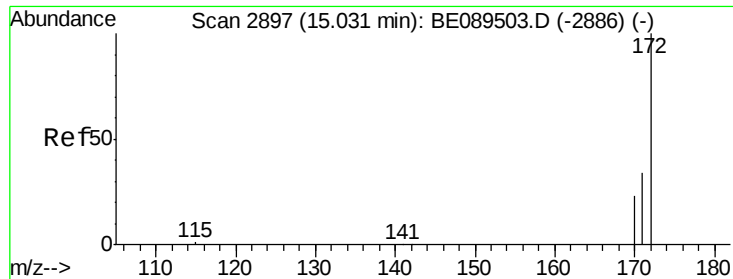


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 0.20 ng

RT: 15.03 min Scan# 2897

Delta R.T. 0.00 min

Lab File: BE089506.D

Acq: 5 Feb 2015 15:23

Instrument :

BNA\_E

LabSampleId :

SSTDIC0.2

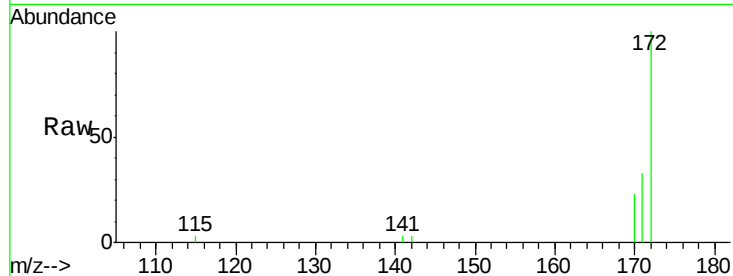
Tgt Ion:172 Resp: 3043

Ion Ratio Lower Upper

172 100

171 33.4 27.4 41.0

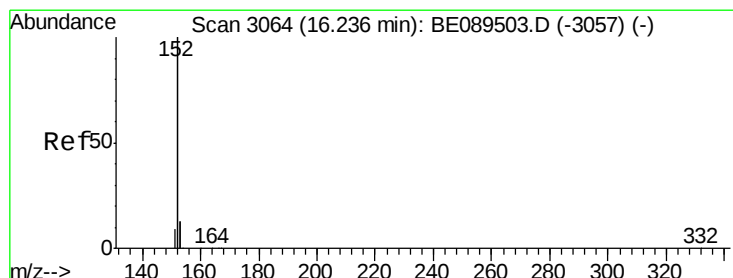
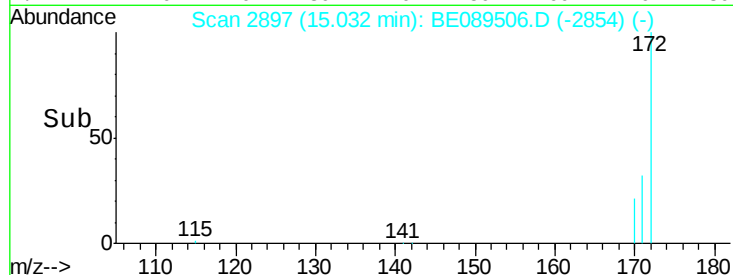
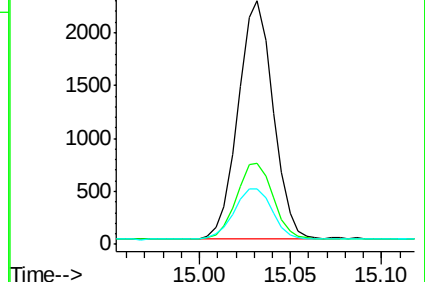
170 22.6 18.4 27.6



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: 0.19 ng

RT: 16.24 min Scan# 3064

Delta R.T. 0.00 min

Lab File: BE089506.D

Acq: 5 Feb 2015 15:23

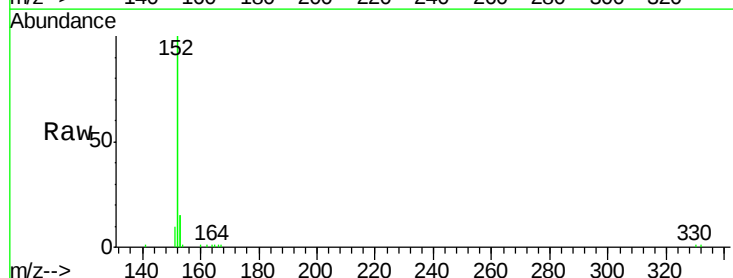
Tgt Ion:152 Resp: 19162

Ion Ratio Lower Upper

152 100

151 5.1 3.9 5.9

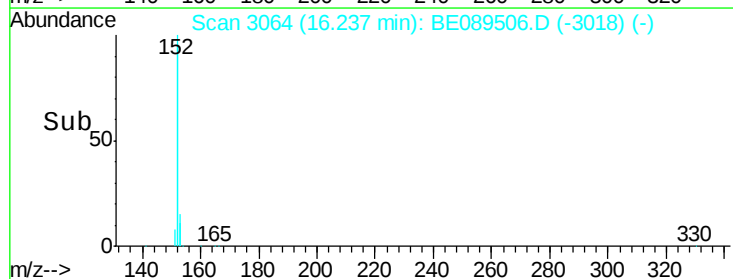
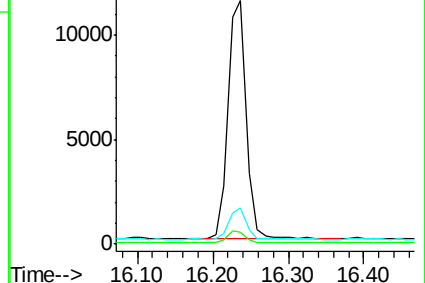
153 12.6 10.4 15.6

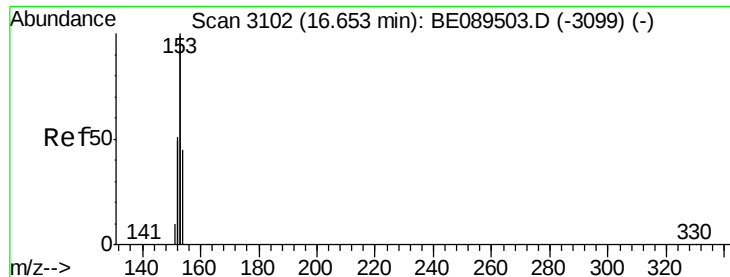


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.20 ng

RT: 16.65 min Scan# 3102

Delta R.T. 0.00 min

Lab File: BE089506.D

Acq: 5 Feb 2015 15:23

Instrument :

BNA\_E

LabSampleId :

SSTDIC0.2

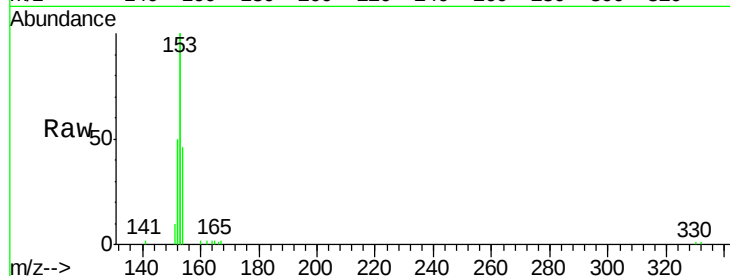
Tgt Ion:154 Resp: 3137

Ion Ratio Lower Upper

154 100

153 429.5 341.5 512.3

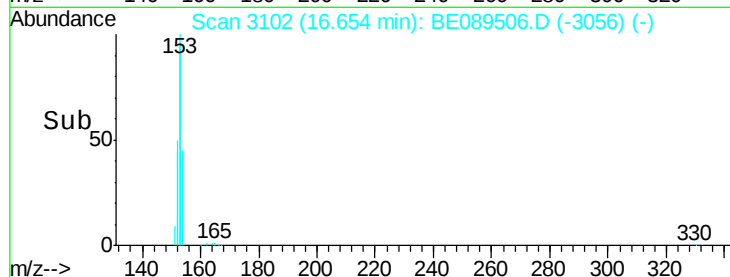
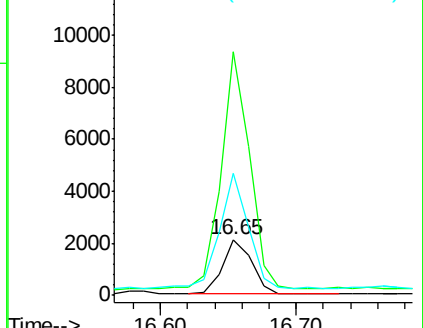
152 218.6 166.6 249.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#10

Fluorene

Concen: 0.18 ng

RT: 17.91 min Scan# 3216

Delta R.T. 0.00 min

Lab File: BE089506.D

Acq: 5 Feb 2015 15:23

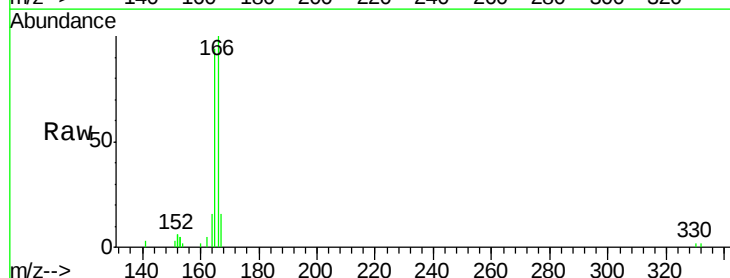
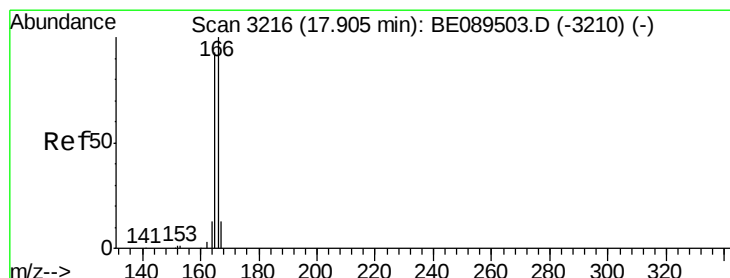
Tgt Ion:166 Resp: 3173

Ion Ratio Lower Upper

166 100

165 97.2 73.6 110.4

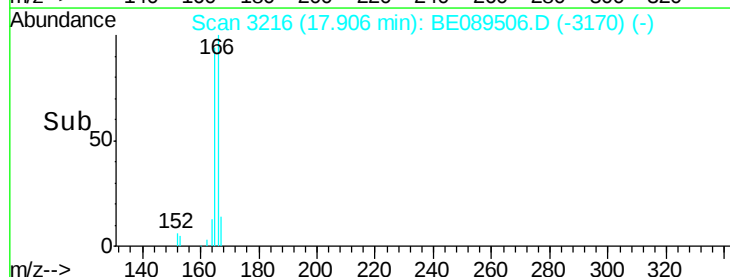
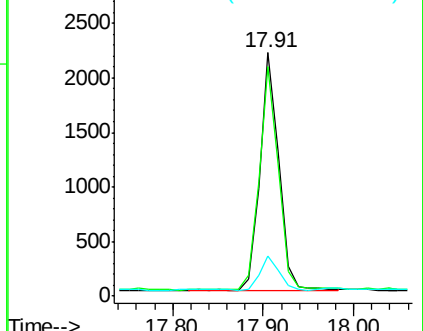
167 14.3 10.6 15.8

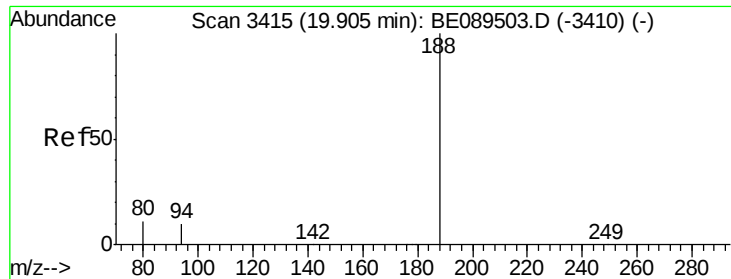


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

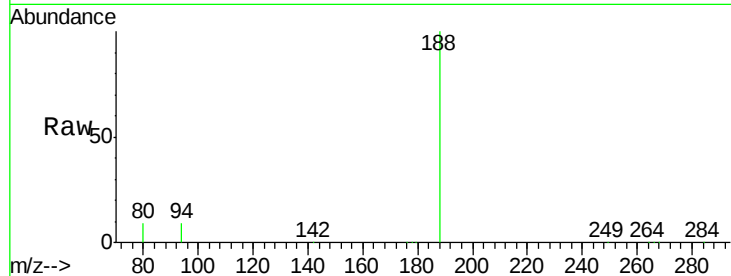




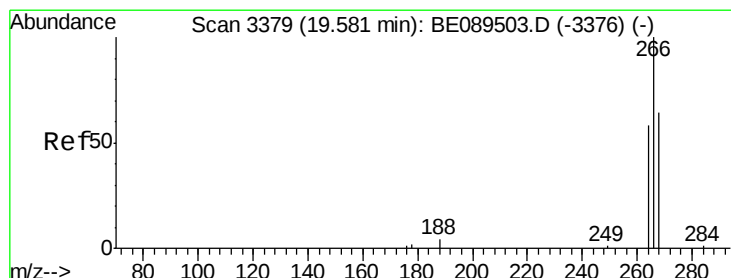
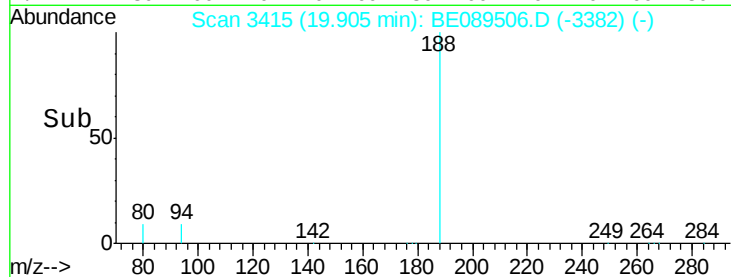
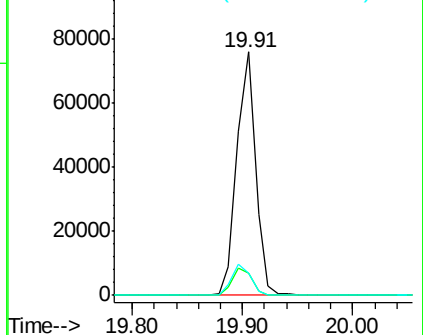
#11  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 19.91 min Scan# 3415  
Delta R.T. 0.00 min  
Lab File: BE089506.D  
Acq: 5 Feb 2015 15:23

Instrument :  
BNA\_E  
LabSampleId :  
SSTDIC0.2

Tgt Ion:188 Resp: 89596  
Ion Ratio Lower Upper  
188 100  
94 9.3 8.2 12.4  
80 9.3 8.7 13.1

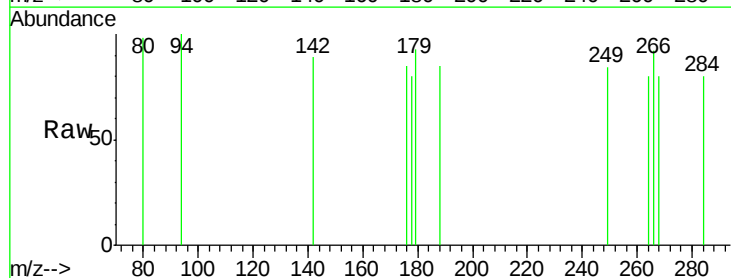


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BE0  
Ion 80.00 (79.70 to 80.70): BE0

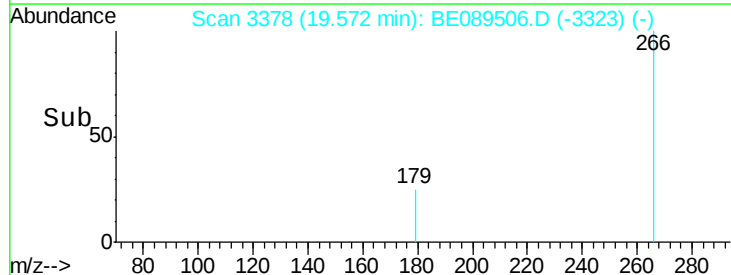
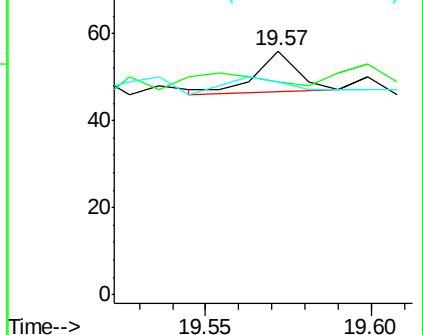


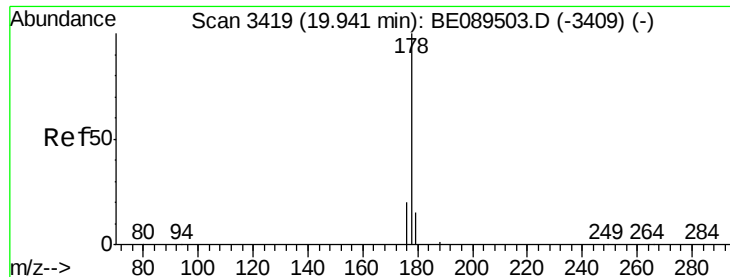
#12  
Pentachlorophenol  
Concen: 0.01 ng  
RT: 19.57 min Scan# 3378  
Delta R.T. -0.01 min  
Lab File: BE089506.D  
Acq: 5 Feb 2015 15:23

Tgt Ion:266 Resp: 9  
Ion Ratio Lower Upper  
266 100  
268 87.5 56.7 85.1#  
264 87.5 51.9 77.9#



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: 0.20 ng

RT: 19.94 min Scan# 3419

Delta R.T. 0.00 min

Lab File: BE089506.D

Acq: 5 Feb 2015 15:23

Instrument :

BNA\_E

LabSampleId :

SSTDIC0.2

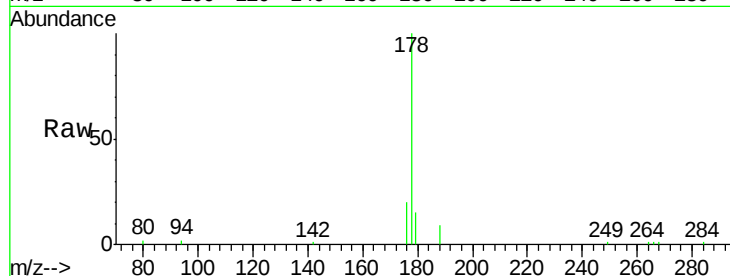
Tgt Ion:178 Resp: 5406

Ion Ratio Lower Upper

178 100

176 18.9 15.4 23.0

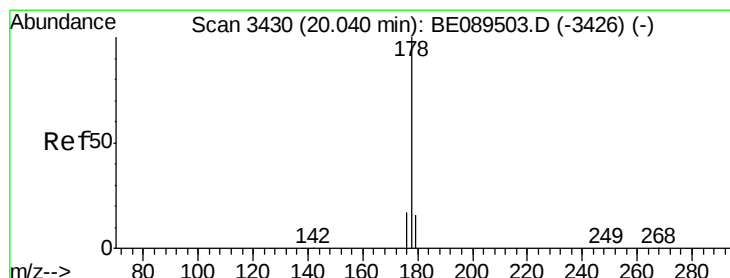
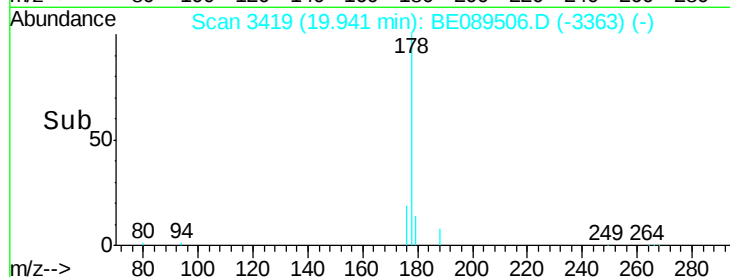
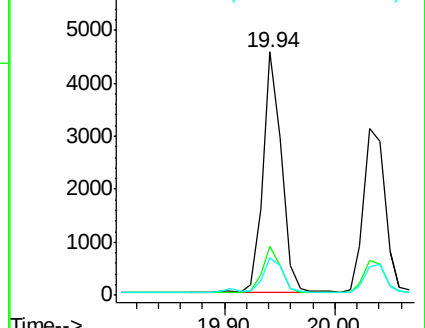
179 17.1 12.4 18.6



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: 0.18 ng

RT: 20.03 min Scan# 3429

Delta R.T. -0.01 min

Lab File: BE089506.D

Acq: 5 Feb 2015 15:23

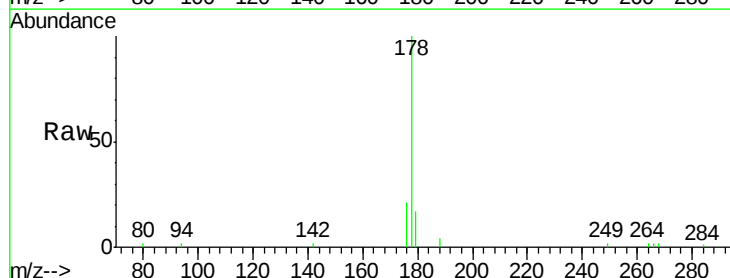
Tgt Ion:178 Resp: 4284

Ion Ratio Lower Upper

178 100

176 19.2 14.6 22.0

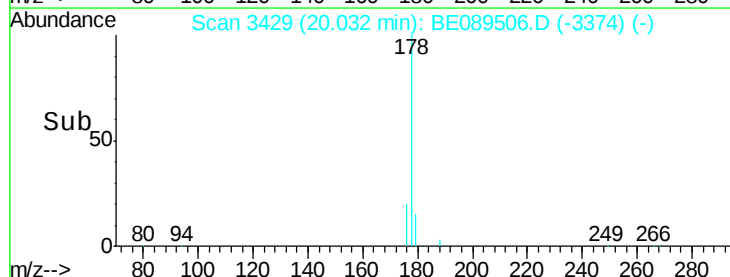
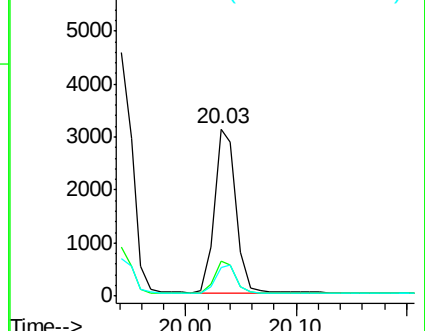
179 16.6 12.1 18.1

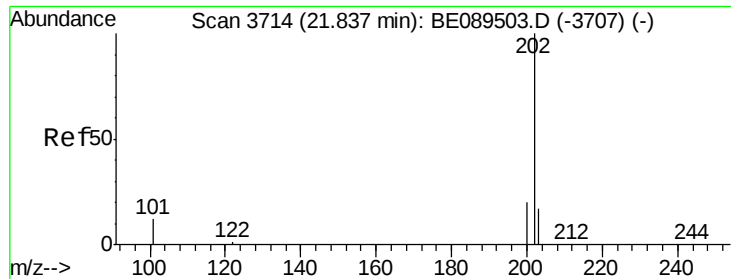


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

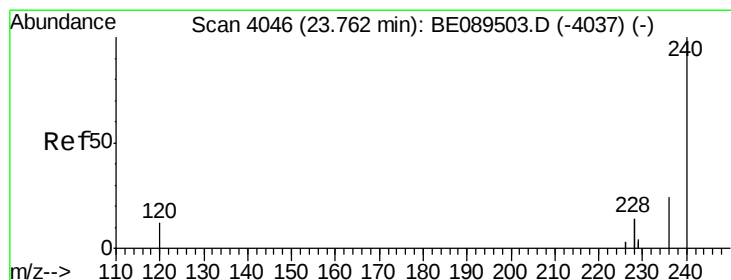
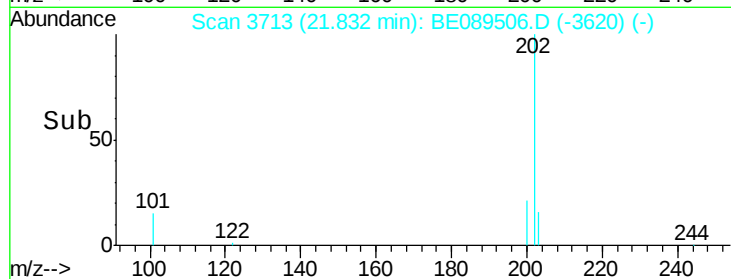
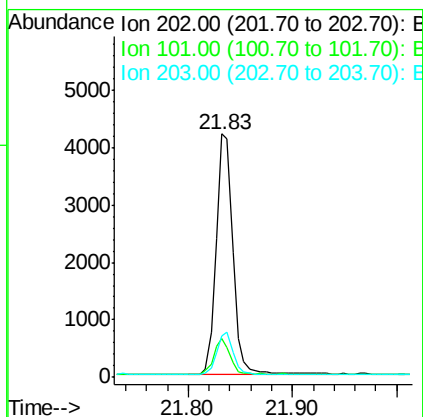
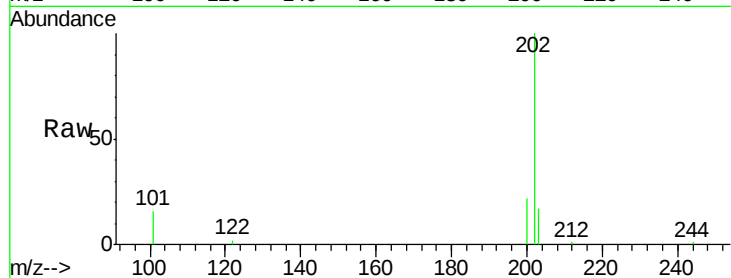




#15  
 Fluoranthene  
 Concen: 0.18 ng  
 RT: 21.83 min Scan# 3713  
 Delta R.T. -0.00 min  
 Lab File: BE089506.D  
 Acq: 5 Feb 2015 15:23

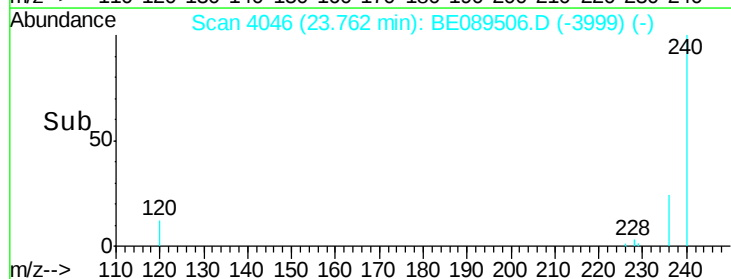
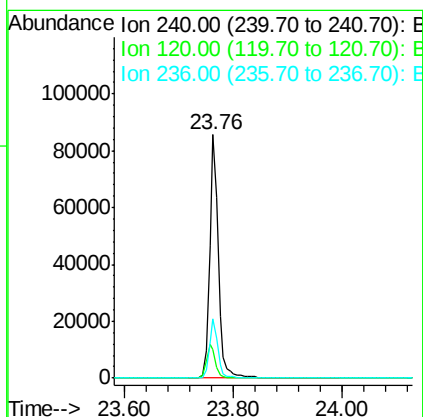
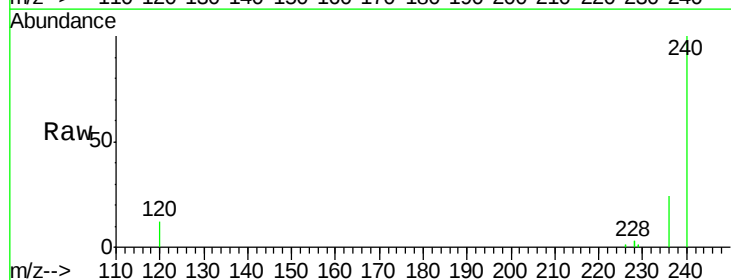
Instrument :  
 BNA\_E  
 LabSampleId :  
 SSTDICC0.2

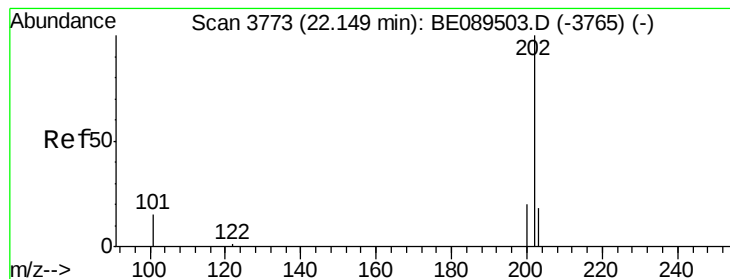
Tgt Ion: 202 Resp: 4754  
 Ion Ratio Lower Upper  
 202 100  
 101 14.1 11.3 16.9  
 203 17.0 13.8 20.6



#16  
 Chrysene-d12  
 Concen: 5.00 ng  
 RT: 23.76 min Scan# 4046  
 Delta R.T. 0.00 min  
 Lab File: BE089506.D  
 Acq: 5 Feb 2015 15:23

Tgt Ion: 240 Resp: 95581  
 Ion Ratio Lower Upper  
 240 100  
 120 11.8 9.6 14.4  
 236 24.3 19.4 29.2





#17

Pyrene

Concen: 0.19 ng

RT: 22.15 min Scan# 3773

Delta R.T. 0.00 min

Lab File: BE089506.D

Acq: 5 Feb 2015 15:23

Instrument :

BNA\_E

LabSampleId :

SSTDIC0.2

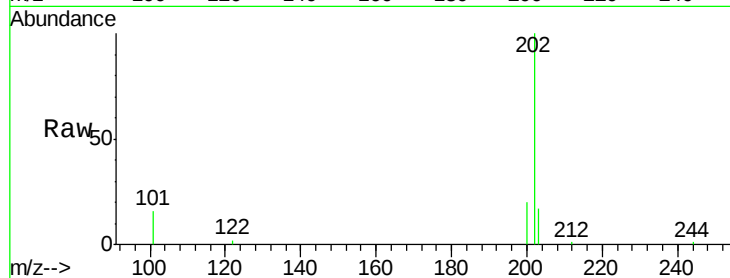
Tgt Ion:202 Resp: 5083

Ion Ratio Lower Upper

202 100

200 20.4 16.5 24.7

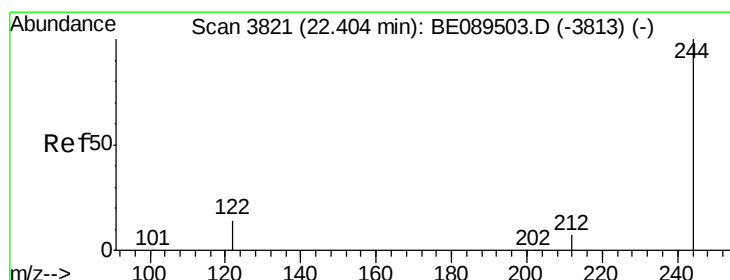
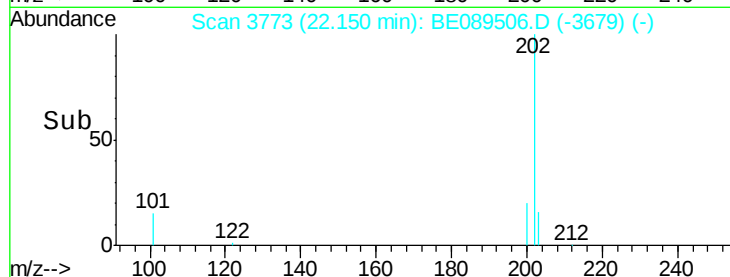
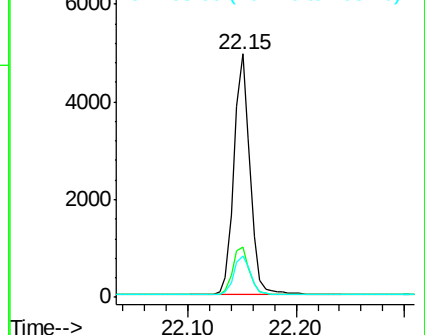
203 16.9 14.0 21.0



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#18

Terphenyl-d14

Concen: 0.19 ng

RT: 22.40 min Scan# 3821

Delta R.T. 0.00 min

Lab File: BE089506.D

Acq: 5 Feb 2015 15:23

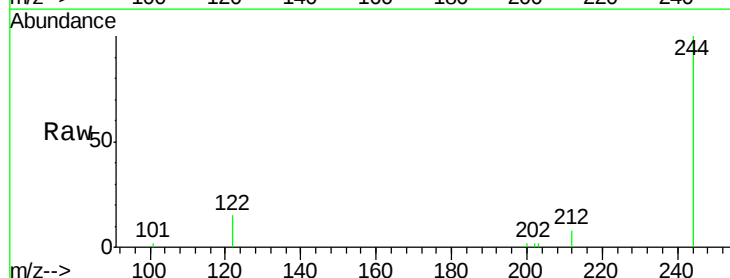
Tgt Ion:244 Resp: 3079

Ion Ratio Lower Upper

244 100

212 8.5 5.5 8.3#

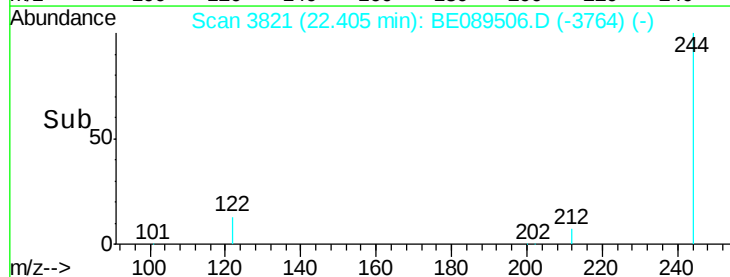
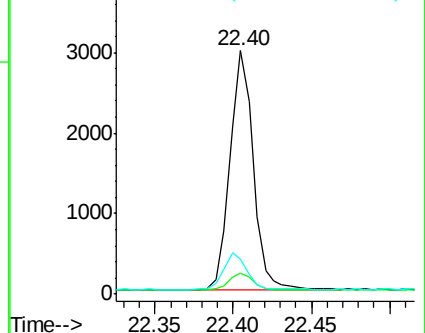
122 14.5 11.1 16.7

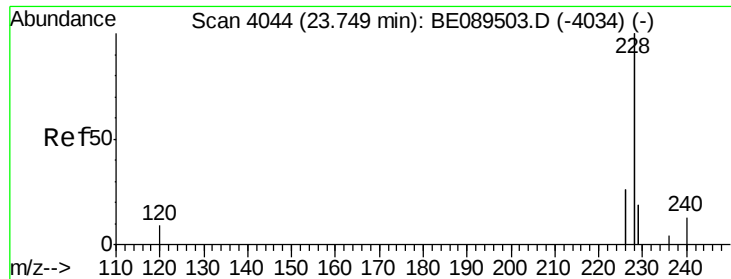


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 0.19 ng

RT: 23.75 min Scan# 4044

Delta R.T. 0.00 min

Lab File: BE089506.D

Acq: 5 Feb 2015 15:23

Instrument :

BNA\_E

LabSampleId :

SSTDICC0.2

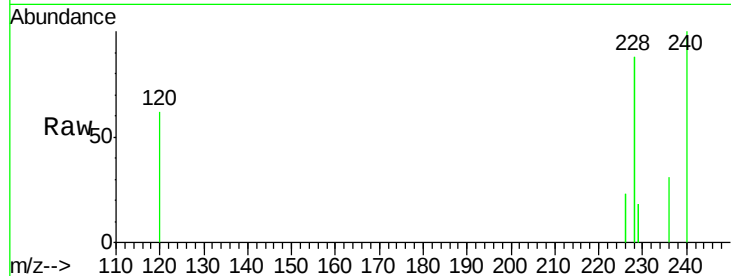
Tgt Ion:228 Resp: 19945

Ion Ratio Lower Upper

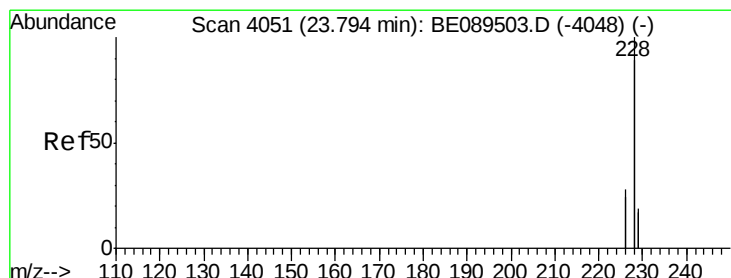
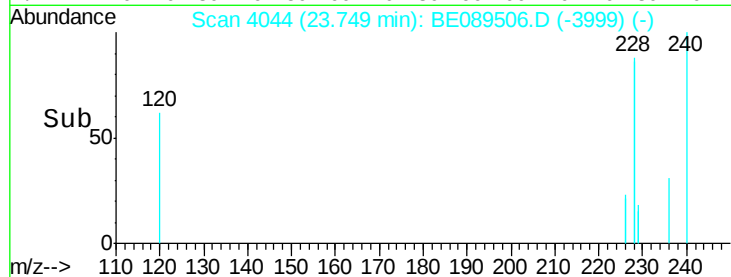
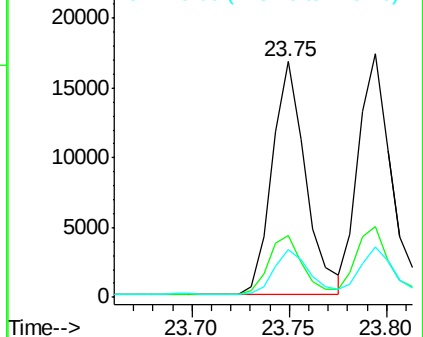
228 100

226 26.0 21.0 31.6

229 20.1 15.5 23.3



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: 0.20 ng

RT: 23.79 min Scan# 4051

Delta R.T. 0.00 min

Lab File: BE089506.D

Acq: 5 Feb 2015 15:23

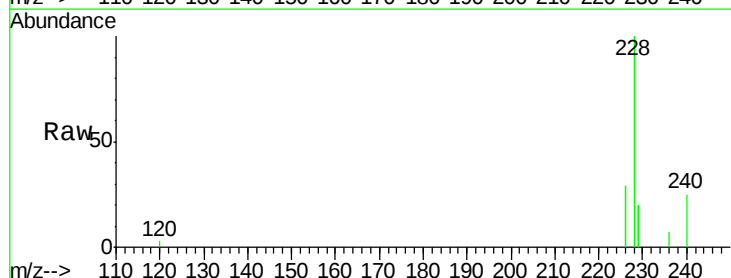
Tgt Ion:228 Resp: 21047

Ion Ratio Lower Upper

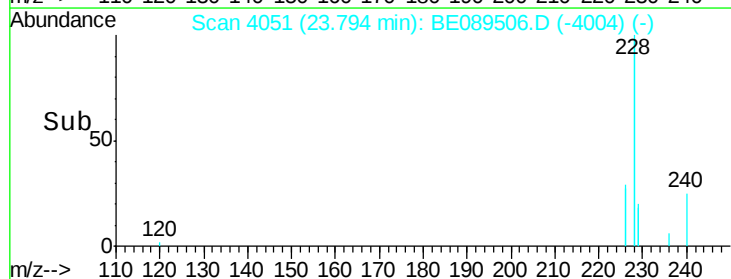
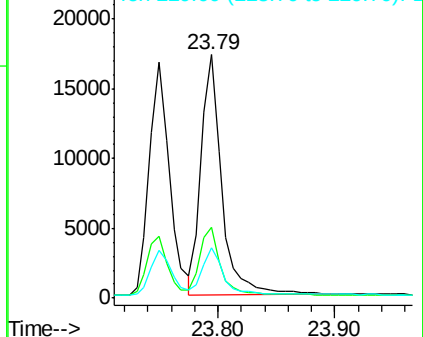
228 100

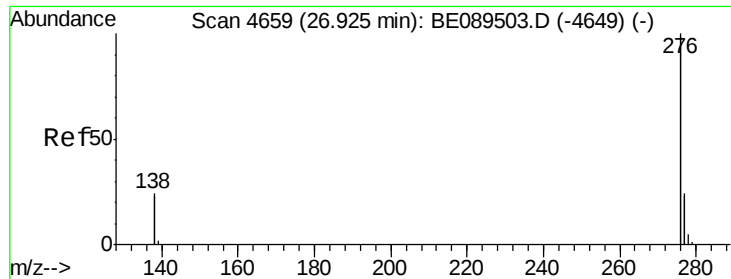
226 28.9 22.3 33.5

229 20.4 15.4 23.0



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

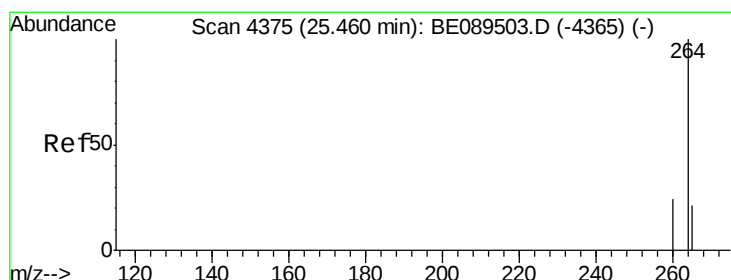
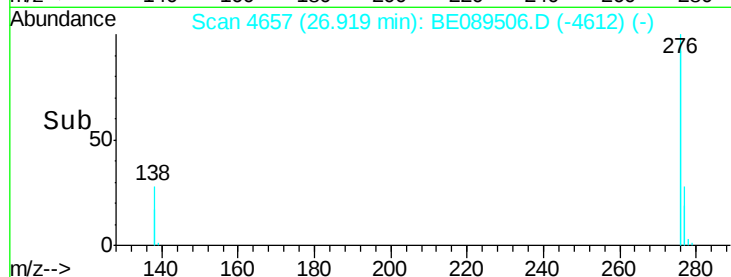
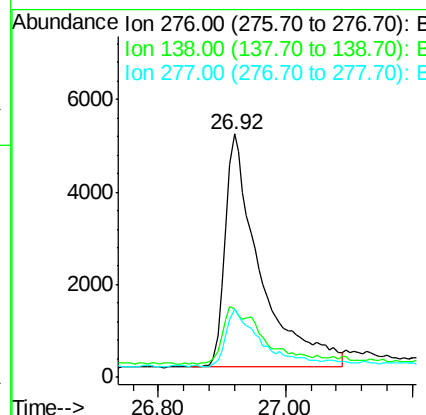
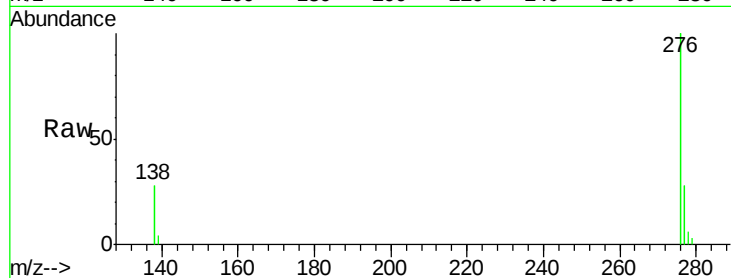




#21  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.17 ng  
 RT: 26.92 min Scan# 4657  
 Delta R.T. -0.01 min  
 Lab File: BE089506.D  
 Acq: 5 Feb 2015 15:23

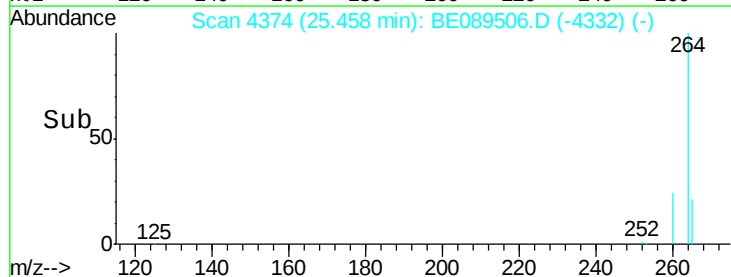
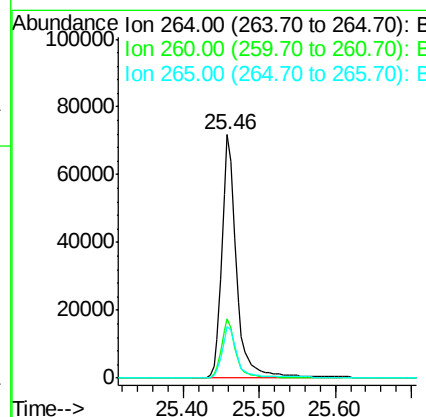
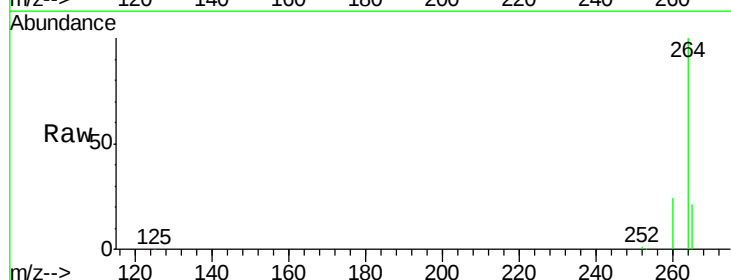
Instrument :  
 BNA\_E  
 LabSampleId :  
 SSTDICC0.2

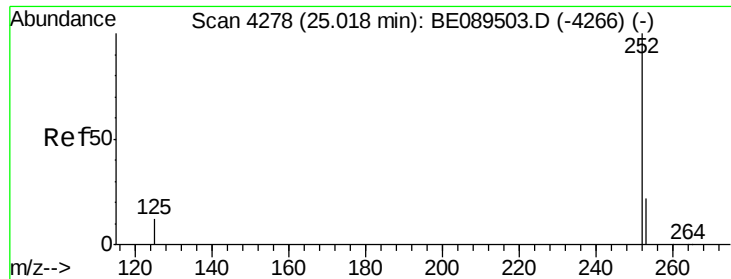
Tgt Ion: 276 Resp: 19081  
 Ion Ratio Lower Upper  
 276 100  
 138 28.0 23.2 34.8  
 277 24.5 19.8 29.6



#22  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 25.46 min Scan# 4374  
 Delta R.T. -0.00 min  
 Lab File: BE089506.D  
 Acq: 5 Feb 2015 15:23

Tgt Ion: 264 Resp: 95807  
 Ion Ratio Lower Upper  
 264 100  
 260 24.1 19.0 28.6  
 265 21.3 17.0 25.6

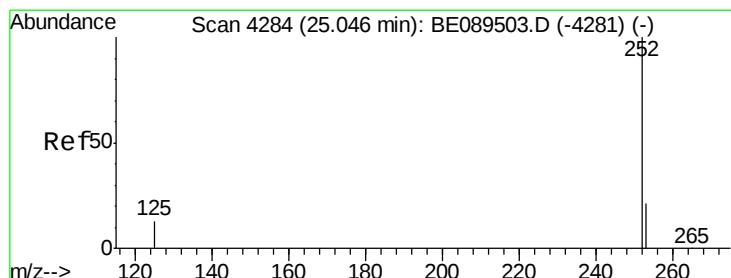
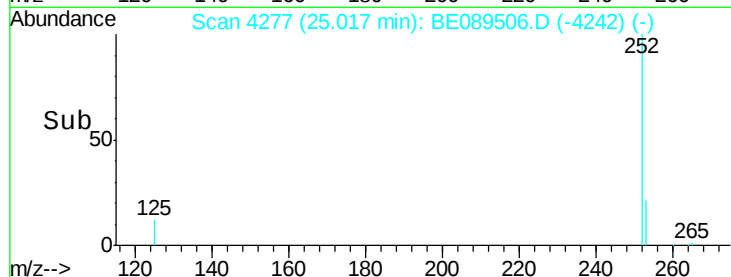
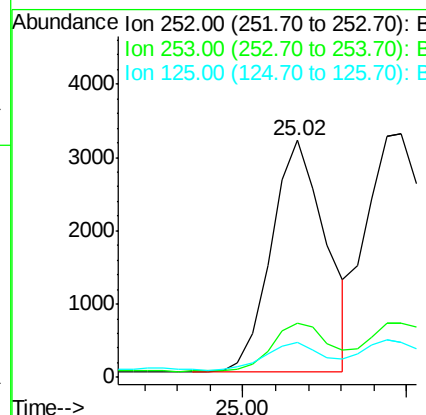
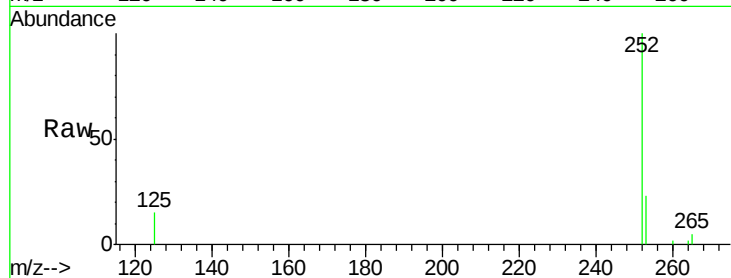




#23  
Benzo(b)fluoranthene  
Concen: 0.17 ng  
RT: 25.02 min Scan# 4277  
Delta R.T. -0.00 min  
Lab File: BE089506.D  
Acq: 5 Feb 2015 15:23

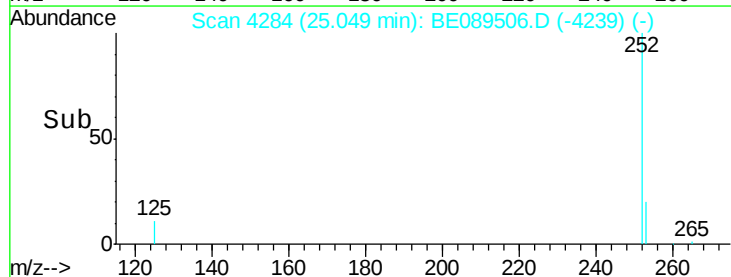
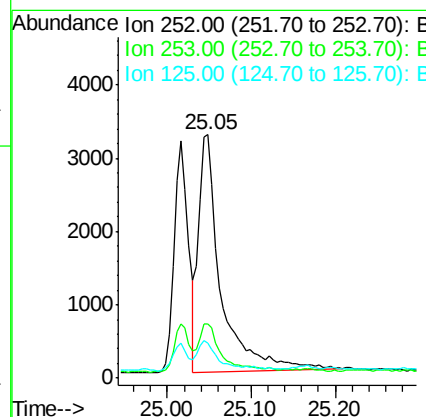
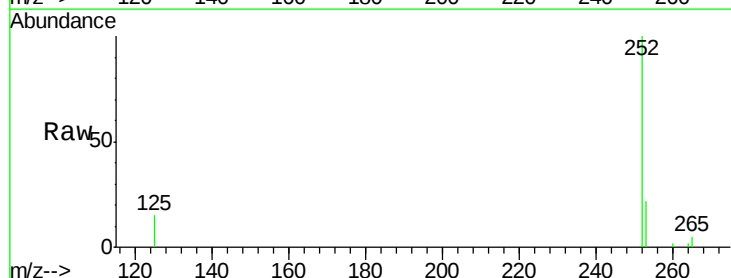
Instrument :  
BNA\_E  
LabSampleId :  
SSTDIC0.2

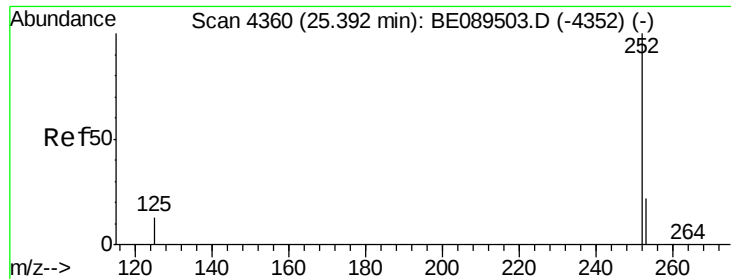
Tgt Ion:252 Resp: 3679  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.4 26.0  
125 14.9 9.6 14.4#



#24  
Benzo(k)fluoranthene  
Concen: 0.20 ng  
RT: 25.05 min Scan# 4284  
Delta R.T. 0.00 min  
Lab File: BE089506.D  
Acq: 5 Feb 2015 15:23

Tgt Ion:252 Resp: 5989  
Ion Ratio Lower Upper  
252 100  
253 22.4 17.0 25.6  
125 14.6 10.2 15.4





#25

Benzo(a)pyrene

Concen: 0.17 ng

RT: 25.39 min Scan# 4359

Delta R.T. -0.00 min

Lab File: BE089506.D

Acq: 5 Feb 2015 15:23

Instrument :

BNA\_E

LabSampleId :

SSTDIC0.2

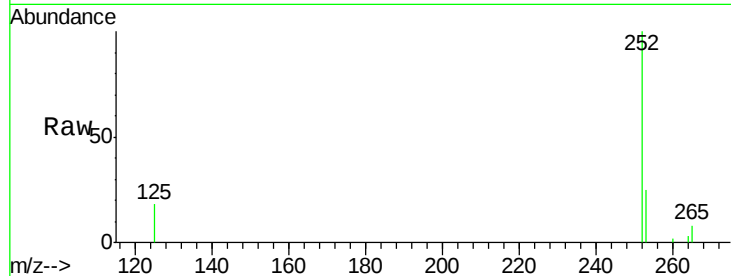
Tgt Ion:252 Resp: 3809

Ion Ratio Lower Upper

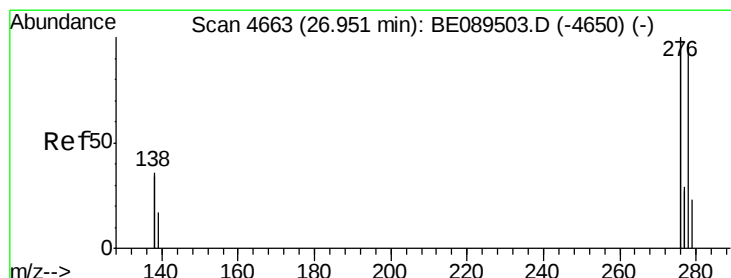
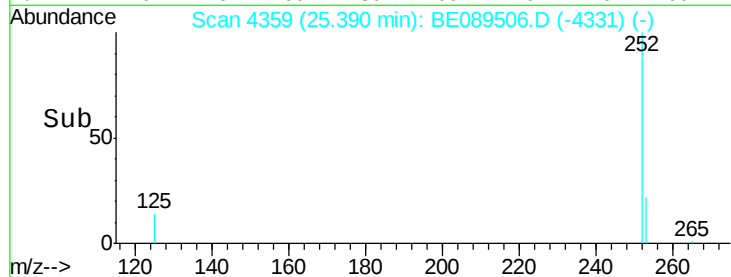
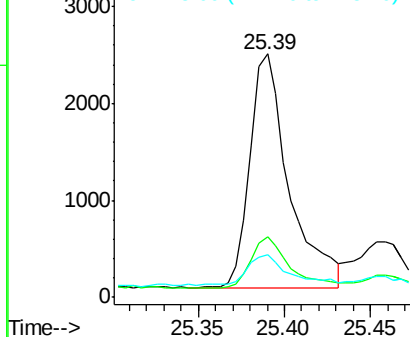
252 100

253 24.9 17.8 26.6

125 17.6 10.7 16.1#



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



#26

Dibenzo(a,h)anthracene

Concen: 0.18 ng

RT: 26.95 min Scan# 4662

Delta R.T. 0.00 min

Lab File: BE089506.D

Acq: 5 Feb 2015 15:23

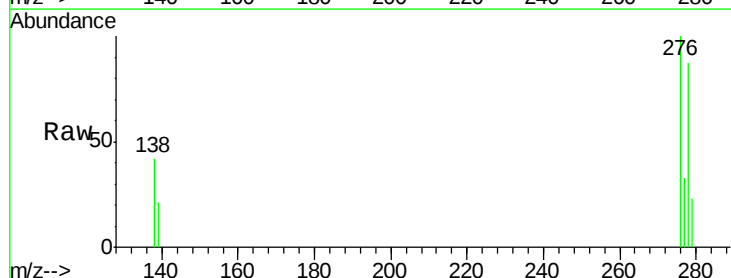
Tgt Ion:278 Resp: 4254

Ion Ratio Lower Upper

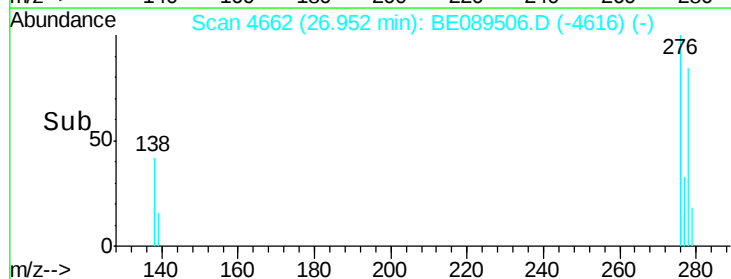
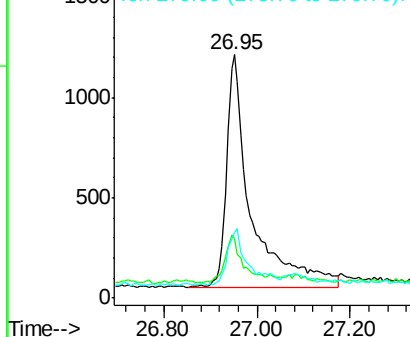
278 100

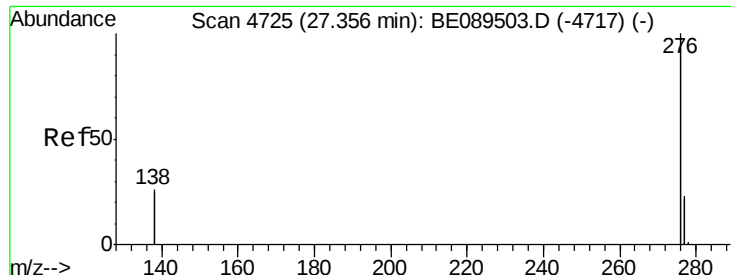
139 24.3 14.6 22.0#

279 26.9 19.0 28.4



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: 0.18 ng

RT: 27.36 min Scan# 4724

Delta R.T. 0.00 min

Lab File: BE089506.D

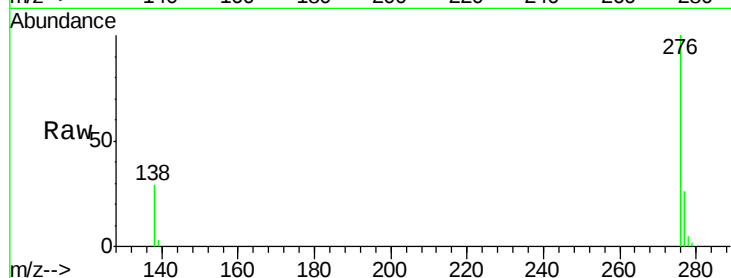
Acq: 5 Feb 2015 15:23

Instrument :

BNA\_E

LabSampleId :

SSTDIC0.2



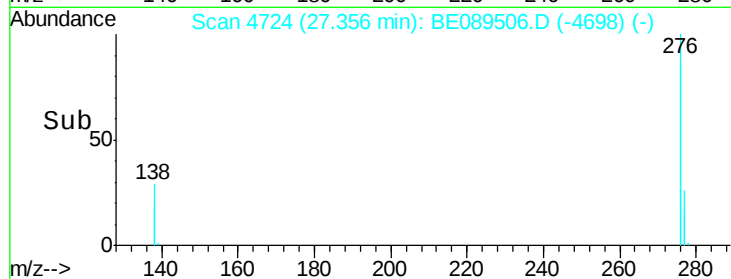
Tgt Ion: 276 Resp: 18070

Ion Ratio Lower Upper

276 100

277 26.4 18.6 28.0

138 29.1 20.8 31.2



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

