

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE062615\  
 Data File : BE089967.D  
 Acq On : 27 Jun 2015 9:21  
 Operator : TP/IZ  
 Sample : G2782-27  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 X1SS0700204-150624

Quant Time: Jun 29 01:18:15 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\8270-SIM-BE062315.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 25 16:51:27 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.63  | 152  | 25444    | 5.00 | ng    | 0.00     |
| 6) Naphthalene-d8         | 10.39 | 136  | 125097   | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10      | 14.24 | 164  | 75777    | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10      | 16.98 | 188  | 179073   | 5.00 | ng    | 0.00     |
| 25) Chrysene-d12          | 21.13 | 240  | 202309   | 5.00 | ng    | 0.00     |
| 32) Perylene-d12          | 23.46 | 264  | 182832   | 5.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 4) 2-Fluorophenol           | 5.26  | 112  | 66675    | 14.51 | ng    | 0.00     |
| 5) Phenol-d6                | 6.81  | 99   | 108776   | 15.45 | ng    | 0.00     |
| 7) Nitrobenzene-d5          | 8.77  | 82   | 72274    | 7.76  | ng    | 0.00     |
| 13) 2,4,6-Tribromophenol    | 15.74 | 330  | 19373    | 14.24 | ng    | 0.00     |
| 14) 2-Fluorobiphenyl        | 12.87 | 172  | 169458   | 7.67  | ng    | 0.00     |
| 27) Terphenyl-d14           | 19.60 | 244  | 259485   | 7.43  | ng    | 0.00     |

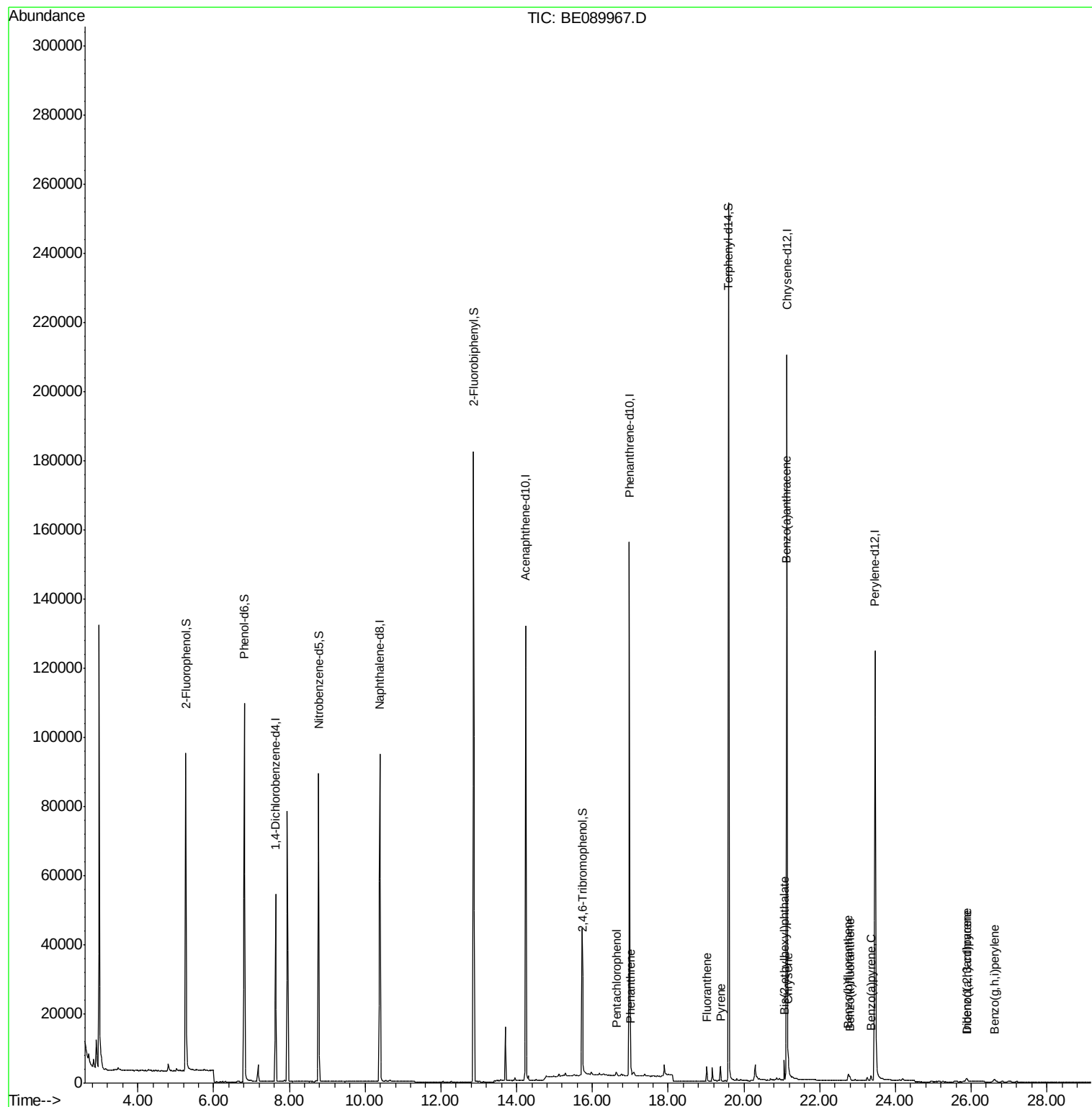
| Target Compounds               | R.T.  | QIon | Response | Conc | Units | Qvalue |
|--------------------------------|-------|------|----------|------|-------|--------|
| 21) Pentachlorophenol          | 16.63 | 266  | 595      | 0.76 | ng    | 93     |
| 22) Phenanthrene               | 17.01 | 178  | 1827     | 0.04 | ng    | # 87   |
| 24) Fluoranthene               | 19.02 | 202  | 3904     | 0.08 | ng    | # 96   |
| 26) Pyrene                     | 19.38 | 202  | 3926     | 0.08 | ng    | 96     |
| 28) Benzo(a)anthracene         | 21.12 | 228  | 3379     | 0.07 | ng    | 96     |
| 29) Chrysene                   | 21.17 | 228  | 2897     | 0.05 | ng    | 93     |
| 30) Bis(2-ethylhexyl)phthalate | 21.07 | 149  | 5432     | 1.32 | ng    | 100    |
| 31) Indeno(1,2,3-cd)pyrene     | 25.88 | 276  | 1806     | 0.05 | ng    | # 100  |
| 33) Benzo(b)fluoranthene       | 22.75 | 252  | 3391     | 0.09 | ng    | # 82   |
| 34) Benzo(k)fluoranthene       | 22.80 | 252  | 1487     | 0.03 | ng    | # 62   |
| 35) Benzo(a)pyrene             | 23.36 | 252  | 2193     | 0.06 | ng    | # 80   |
| 36) Dibenzo(a,h)anthracene     | 25.90 | 278  | 773      | 0.02 | ng    | # 50   |
| 37) Benzo(g,h,i)perylene       | 26.62 | 276  | 1797     | 0.05 | ng    | # 79   |

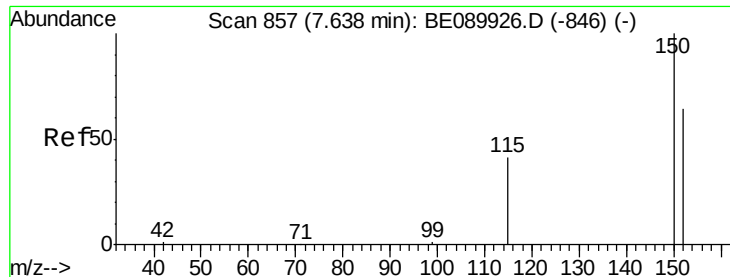
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 23 Sample Multiplier: 1

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QLast Update : Thu Jun 25 16:51:27 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.63 min Scan# 856

Delta R.T. -0.00 min

Lab File: BE089967.D

Acq: 27 Jun 2015 9:21

Instrument :

BNA\_E

ClientSampleId :

X1SS0700204-150624

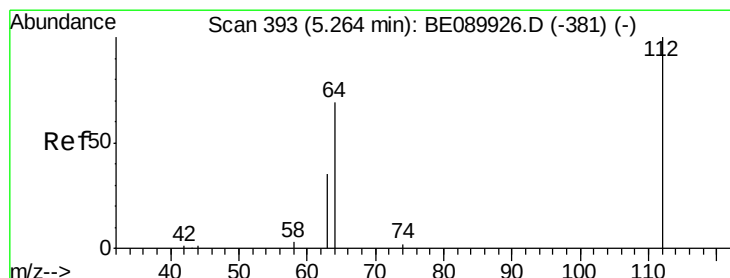
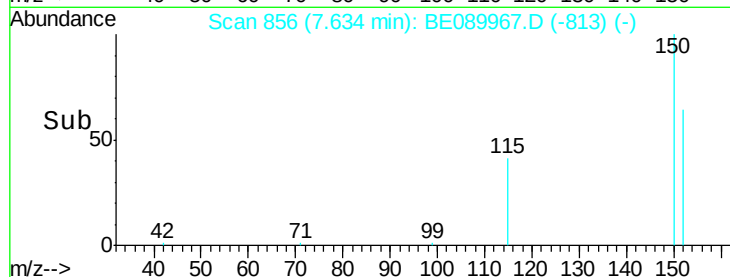
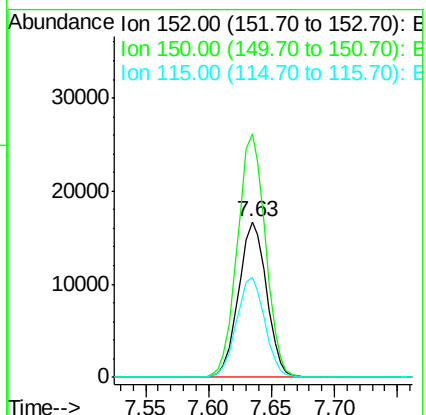
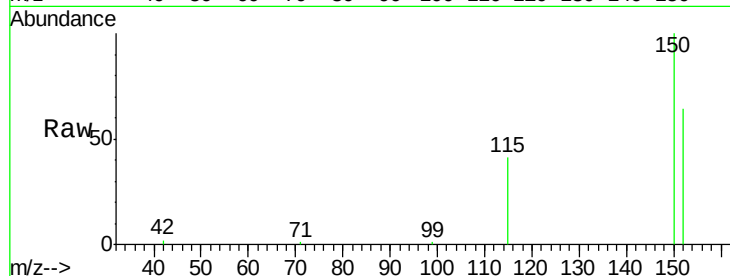
Tgt Ion:152 Resp: 25444

Ion Ratio Lower Upper

152 100

150 156.4 124.6 186.8

115 64.2 51.6 77.4



#4

2-Fluorophenol

Concen: 14.51 ng

RT: 5.26 min Scan# 393

Delta R.T. -0.00 min

Lab File: BE089967.D

Acq: 27 Jun 2015 9:21

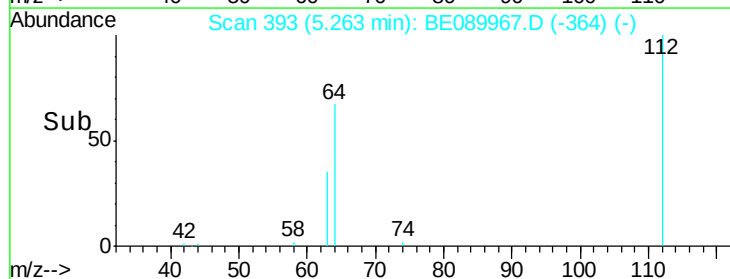
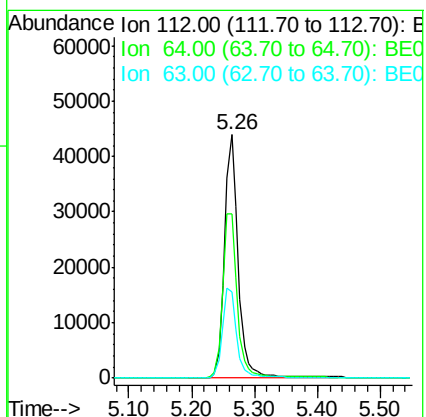
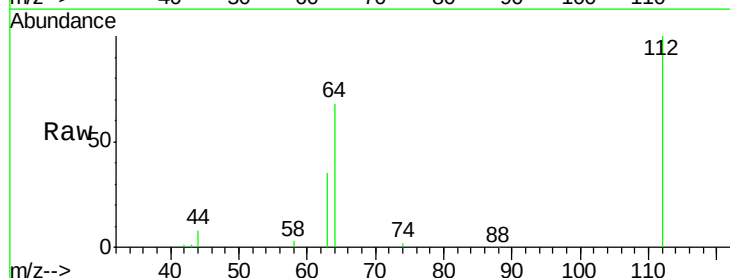
Tgt Ion:112 Resp: 66675

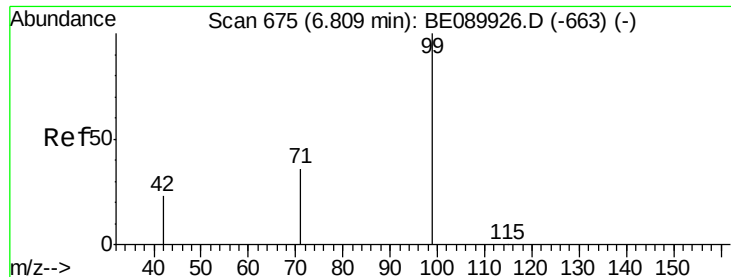
Ion Ratio Lower Upper

112 100

64 72.1 57.4 86.2

63 38.4 31.2 46.8





#5

Phenol-d6

Concen: 15.45 ng

RT: 6.81 min Scan# 675

Delta R.T. 0.00 min

Lab File: BE089967.D

Acq: 27 Jun 2015 9:21

Instrument :

BNA\_E

ClientSampleId :

X1SS0700204-150624

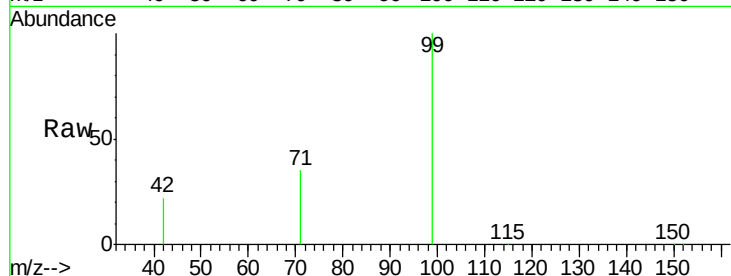
Tgt Ion: 99 Resp: 108776

Ion Ratio Lower Upper

99 100

42 22.7 19.5 29.3

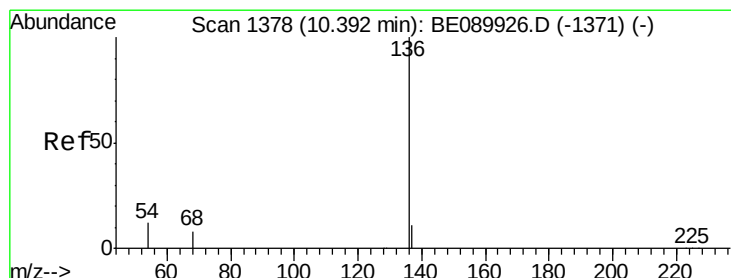
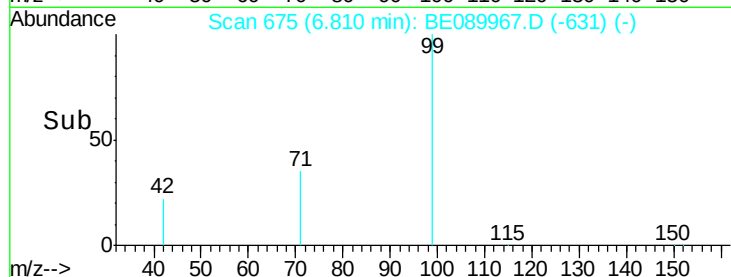
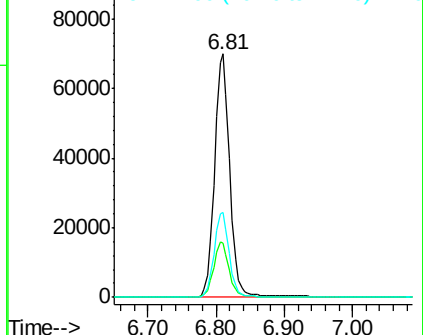
71 34.8 27.8 41.6



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.39 min Scan# 1378

Delta R.T. 0.00 min

Lab File: BE089967.D

Acq: 27 Jun 2015 9:21

Tgt Ion: 136 Resp: 125097

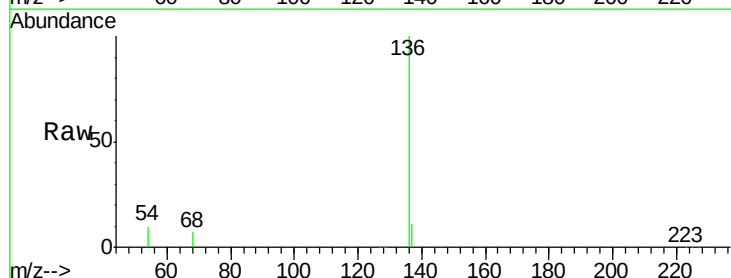
Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

54 10.3 9.7 14.5

68 7.2 6.5 9.7

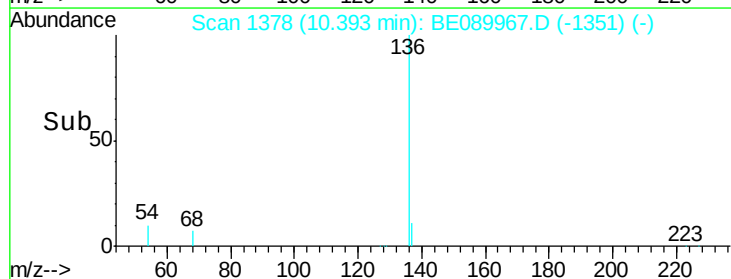
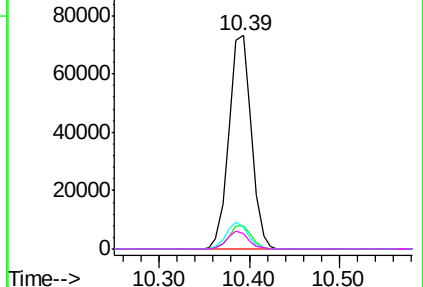


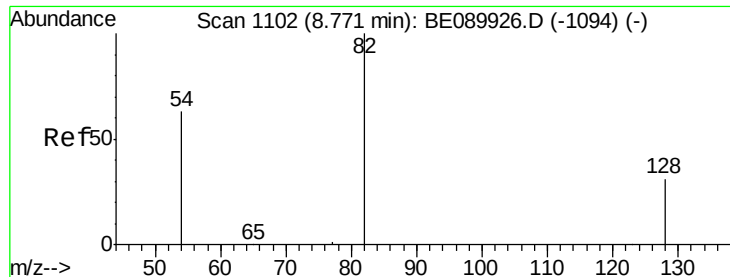
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#7

Nitrobenzene-d5

Concen: 7.76 ng

RT: 8.77 min Scan# 1102

Delta R.T. -0.00 min

Lab File: BE089967.D

Acq: 27 Jun 2015 9:21

Instrument :

BNA\_E

ClientSampleId :

X1SS0700204-150624

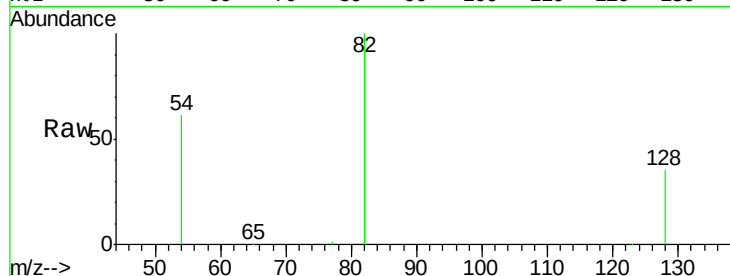
Tgt Ion: 82 Resp: 72274

Ion Ratio Lower Upper

82 100

128 34.7 25.6 38.4

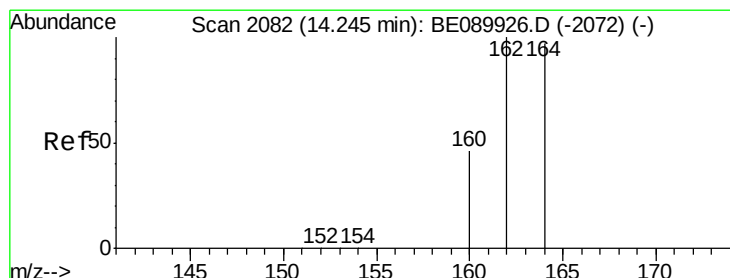
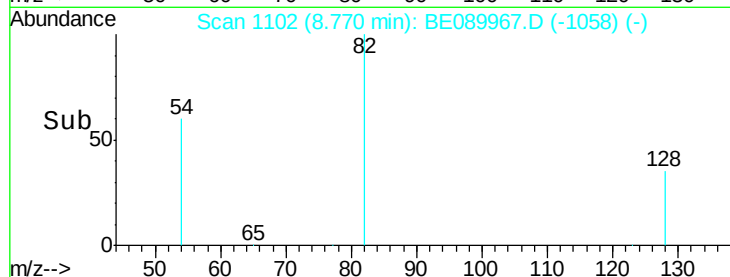
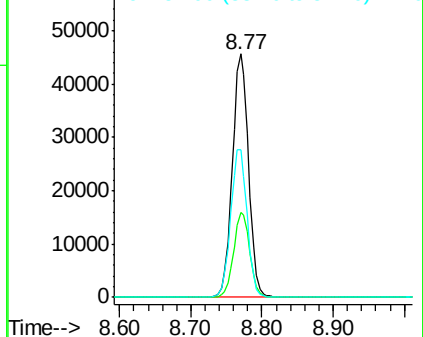
54 60.6 51.2 76.8



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.24 min Scan# 2081

Delta R.T. -0.01 min

Lab File: BE089967.D

Acq: 27 Jun 2015 9:21

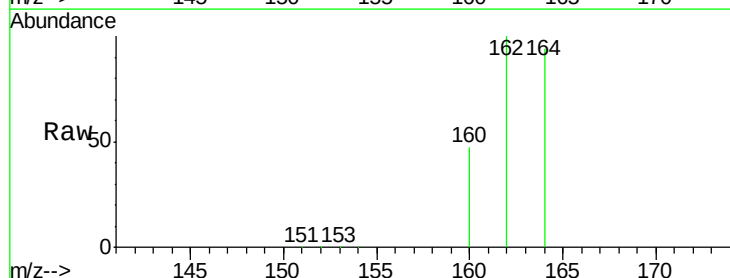
Tgt Ion: 164 Resp: 75777

Ion Ratio Lower Upper

164 100

162 106.9 82.7 124.1

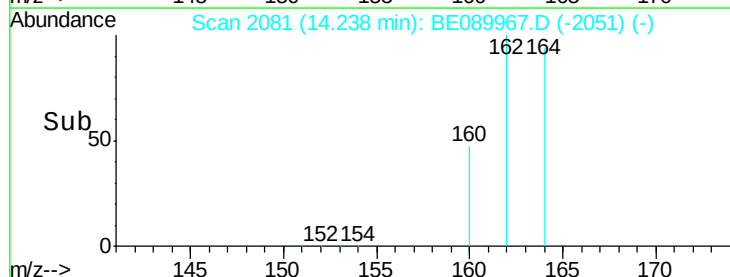
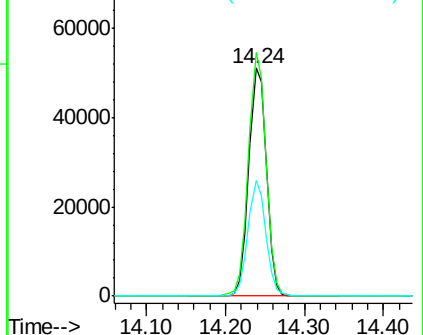
160 50.5 38.3 57.5

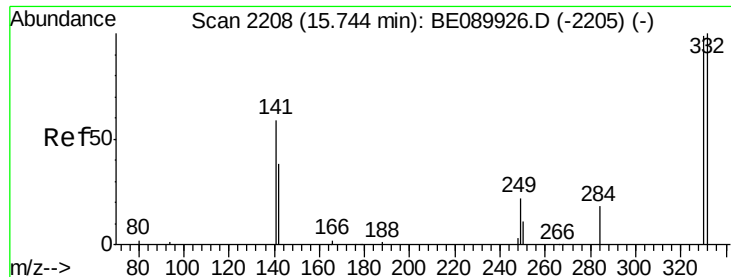


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

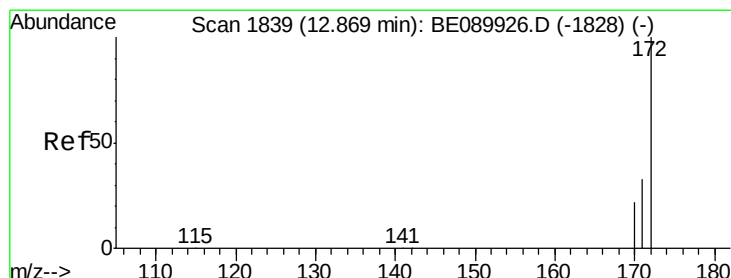
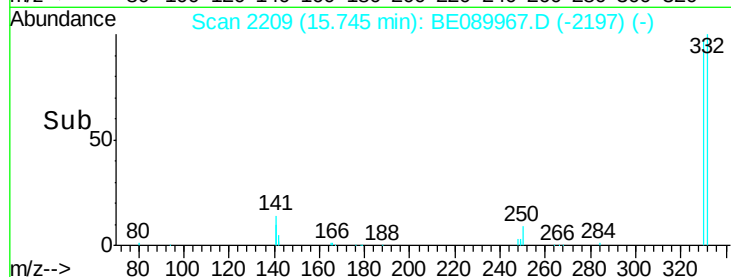
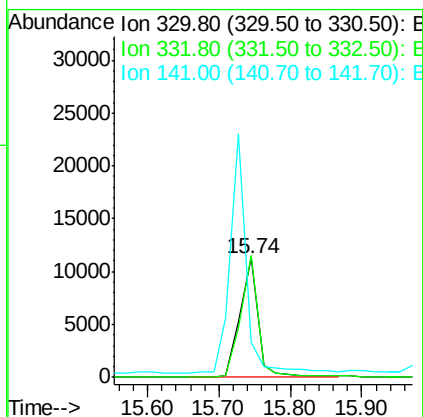
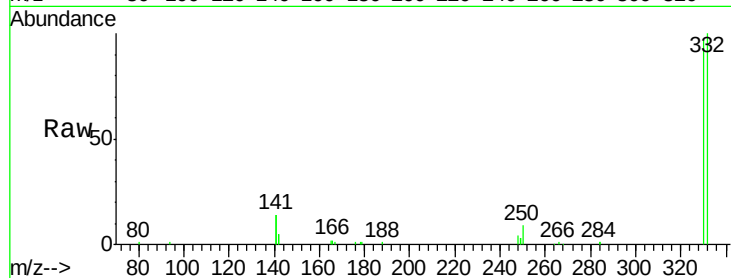




#13  
 2,4,6-Tribromophenol  
 Concen: 14.24 ng  
 RT: 15.74 min Scan# 2209  
 Delta R.T. 0.00 min  
 Lab File: BE089967.D  
 Acq: 27 Jun 2015 9:21

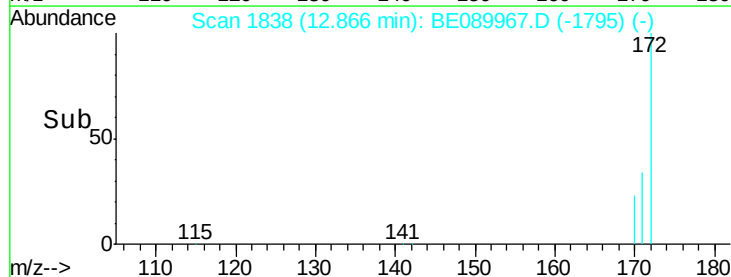
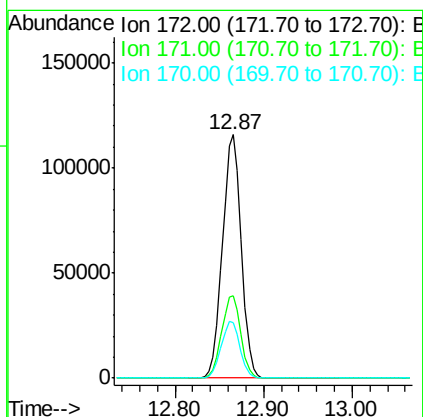
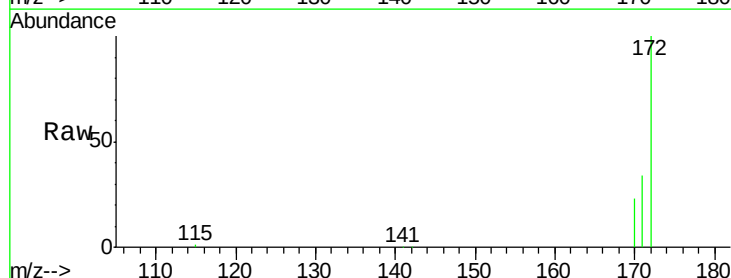
Instrument :  
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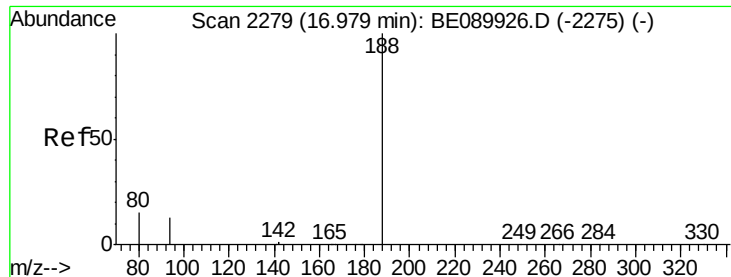
Tgt Ion:330 Resp: 19373  
 Ion Ratio Lower Upper  
 330 100  
 332 97.7 77.9 116.9  
 141 180.1 142.8 214.2



#14  
 2-Fluorobiphenyl  
 Concen: 7.67 ng  
 RT: 12.87 min Scan# 1838  
 Delta R.T. -0.00 min  
 Lab File: BE089967.D  
 Acq: 27 Jun 2015 9:21

Tgt Ion:172 Resp: 169458  
 Ion Ratio Lower Upper  
 172 100  
 171 33.9 26.7 40.1  
 170 23.0 17.5 26.3





#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.98 min Scan# 2280

Delta R.T. 0.00 min

Lab File: BE089967.D

Acq: 27 Jun 2015 9:21

Instrument :

BNA\_E

ClientSampleId :

X1SS0700204-150624

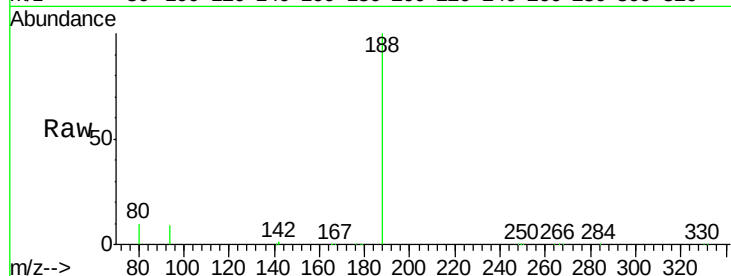
Tgt Ion:188 Resp: 179073

Ion Ratio Lower Upper

188 100

94 9.4 10.6 16.0#

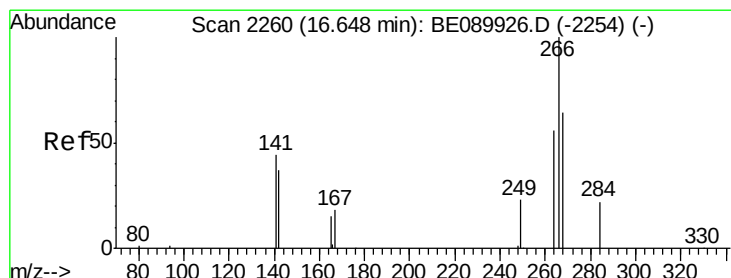
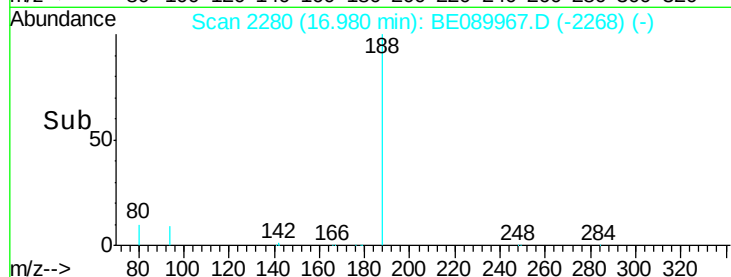
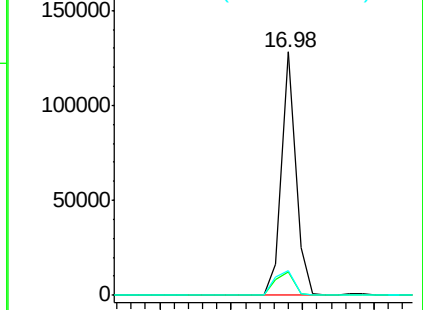
80 10.1 11.8 17.6#



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



#21

Pentachlorophenol

Concen: 0.76 ng

RT: 16.63 min Scan# 2260

Delta R.T. -0.02 min

Lab File: BE089967.D

Acq: 27 Jun 2015 9:21

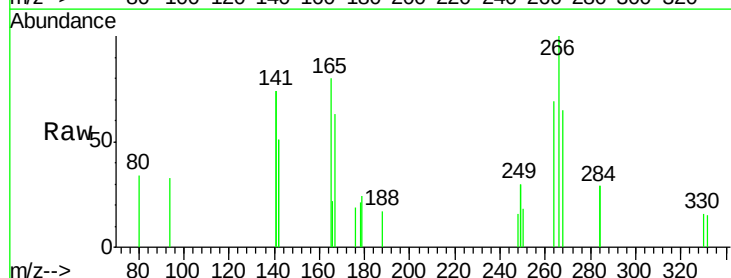
Tgt Ion:266 Resp: 595

Ion Ratio Lower Upper

266 100

268 65.2 54.4 81.6

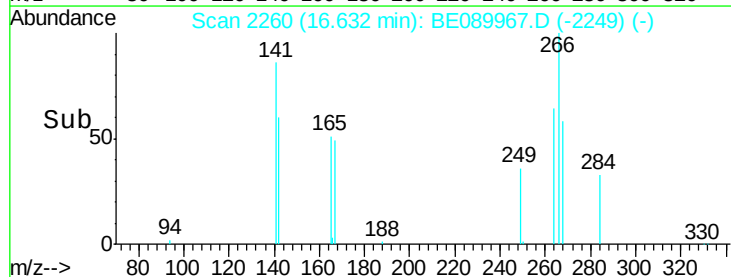
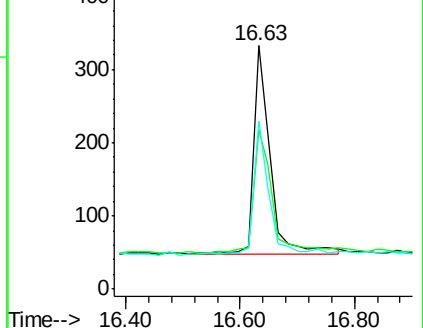
264 68.8 48.2 72.2

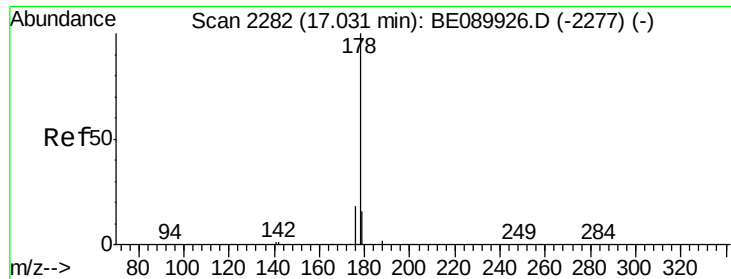


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#22

Phenanthrene

Concen: 0.04 ng

RT: 17.01 min Scan# 2282

Delta R.T. -0.02 min

Lab File: BE089967.D

Acq: 27 Jun 2015 9:21

Instrument :

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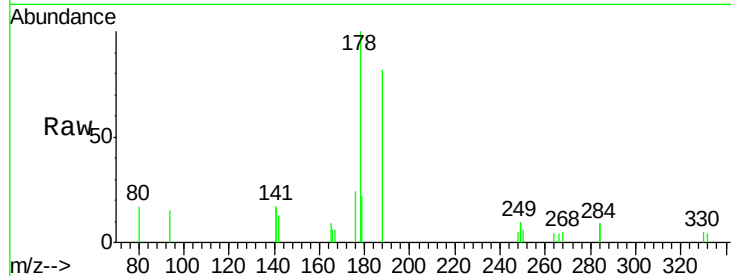
Tgt Ion:178 Resp: 1827

Ion Ratio Lower Upper

178 100

176 22.3 15.4 23.2

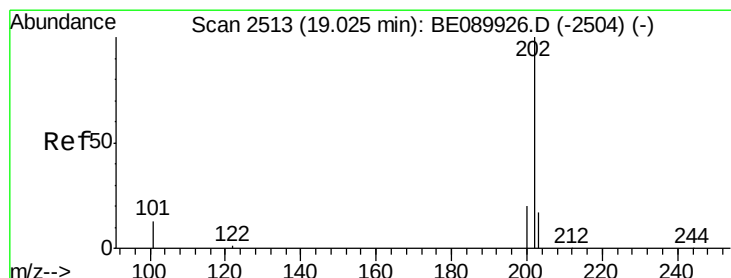
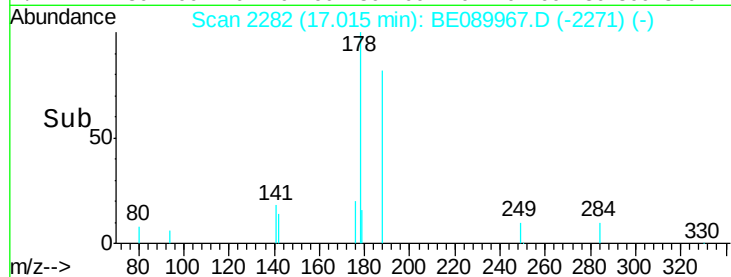
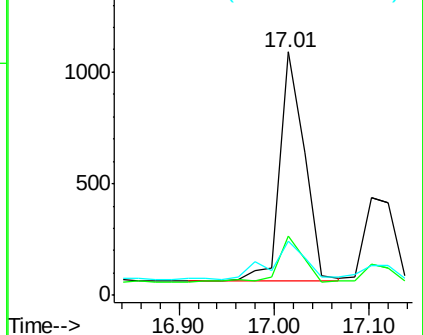
179 24.2 12.6 19.0#



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



#24

Fluoranthene

Concen: 0.08 ng

RT: 19.02 min Scan# 2514

Delta R.T. -0.00 min

Lab File: BE089967.D

Acq: 27 Jun 2015 9:21

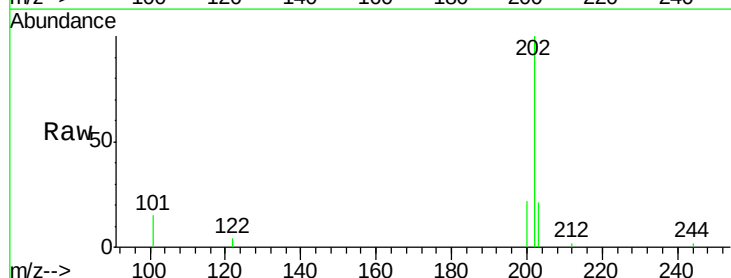
Tgt Ion:202 Resp: 3904

Ion Ratio Lower Upper

202 100

101 16.6 10.6 16.0#

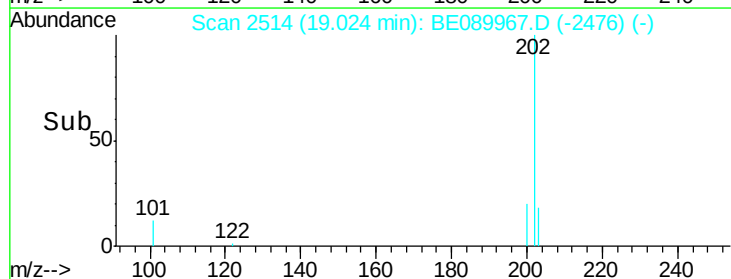
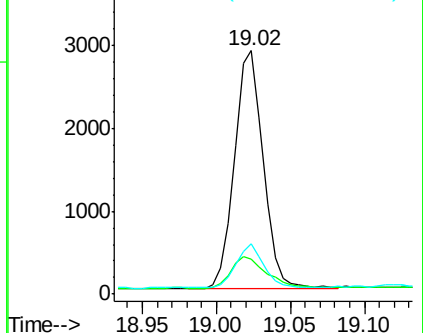
203 17.4 13.8 20.8



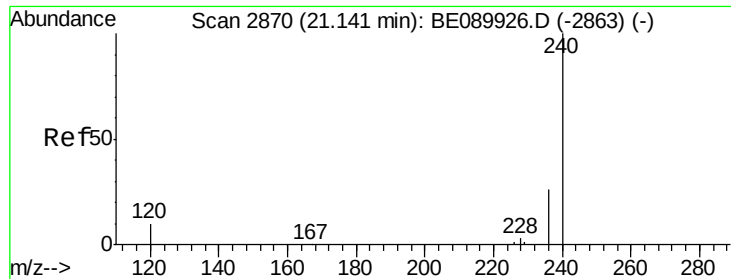
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



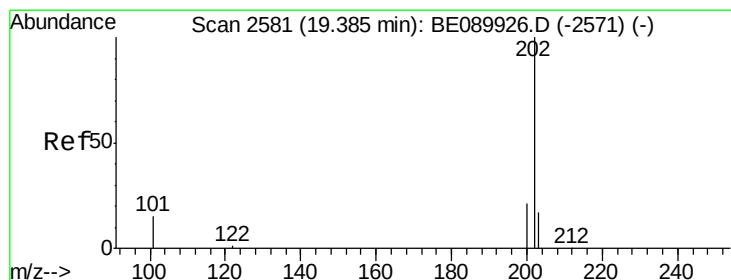
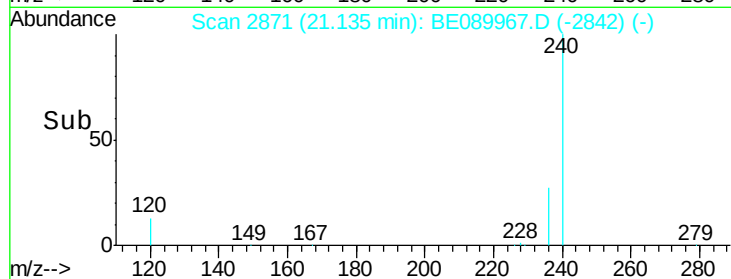
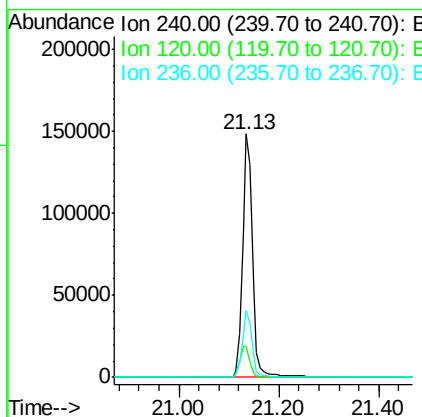
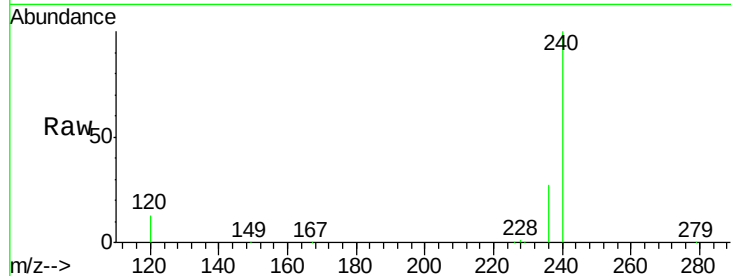




#25  
 Chrysene-d12  
 Concen: 5.00 ng  
 RT: 21.13 min Scan# 2871  
 Delta R.T. -0.01 min  
 Lab File: BE089967.D  
 Acq: 27 Jun 2015 9:21

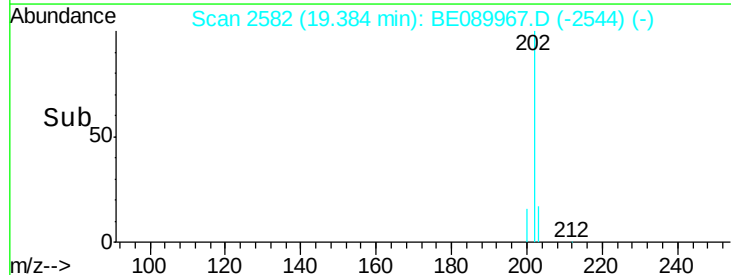
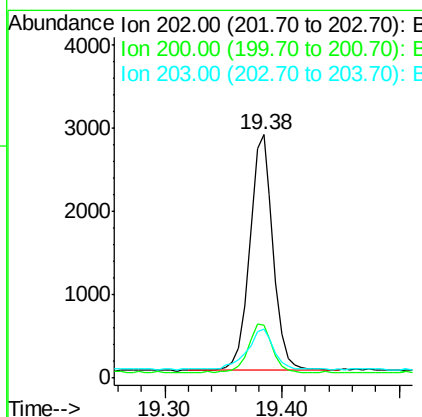
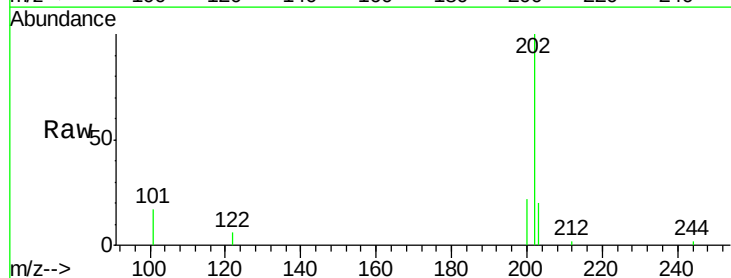
Instrument :  
 BNA\_E  
 ClientSampleId :  
 X1SS0700204-150624

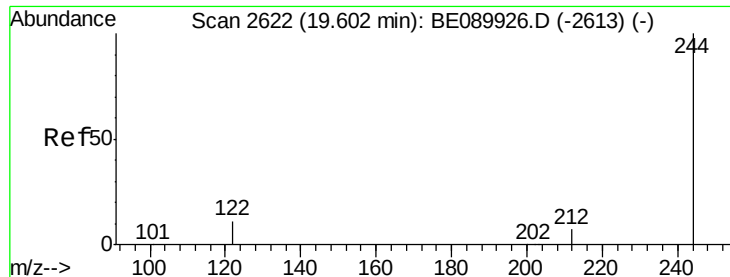
Tgt Ion:240 Resp: 202309  
 Ion Ratio Lower Upper  
 240 100  
 120 13.0 7.9 11.9#  
 236 27.5 21.2 31.8



#26  
 Pyrene  
 Concen: 0.08 ng  
 RT: 19.38 min Scan# 2582  
 Delta R.T. -0.00 min  
 Lab File: BE089967.D  
 Acq: 27 Jun 2015 9:21

Tgt Ion:202 Resp: 3926  
 Ion Ratio Lower Upper  
 202 100  
 200 21.0 16.6 25.0  
 203 20.8 13.9 20.9

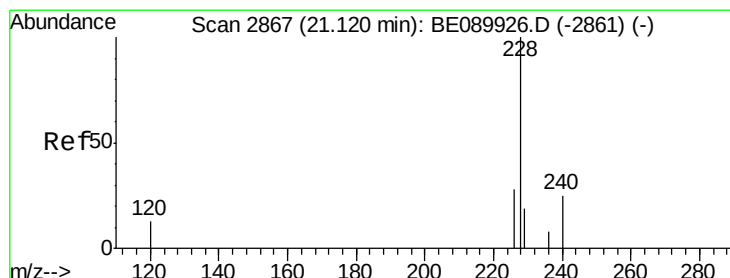
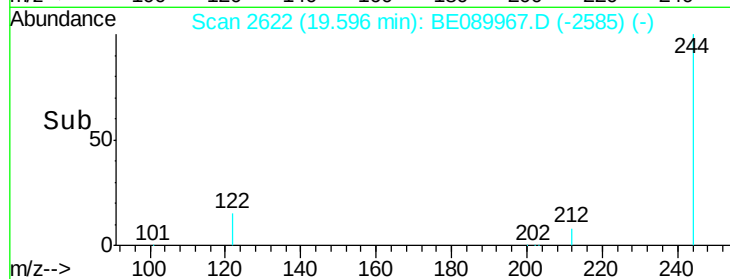
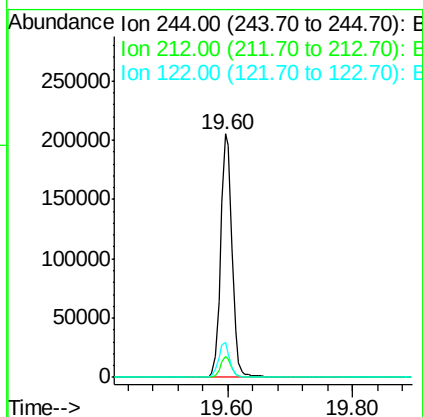
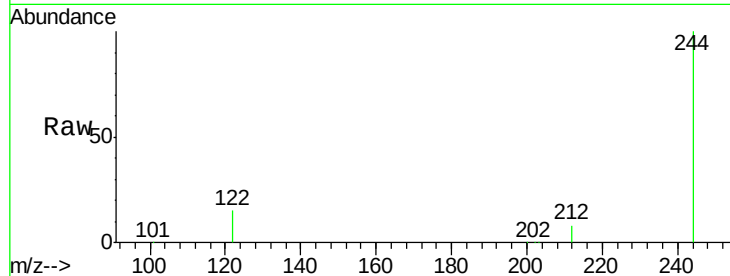




#27  
 Terphenyl-d14  
 Concen: 7.43 ng  
 RT: 19.60 min Scan# 2622  
 Delta R.T. -0.01 min  
 Lab File: BE089967.D  
 Acq: 27 Jun 2015 9:21

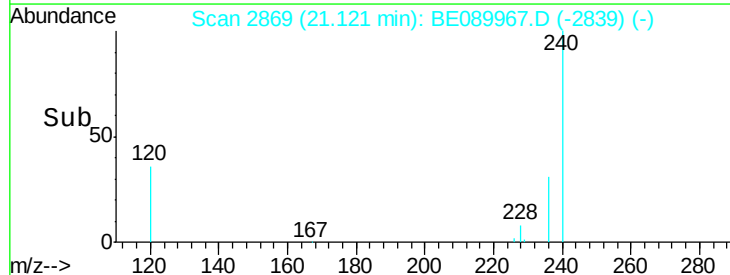
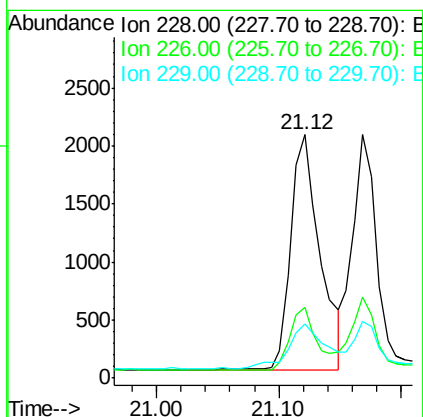
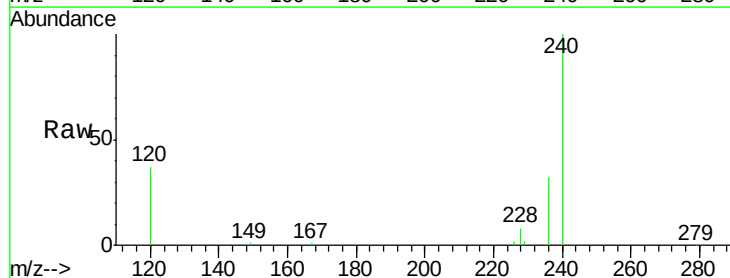
Instrument :  
 BNA\_E  
 ClientSampleId :  
 X1SS0700204-150624

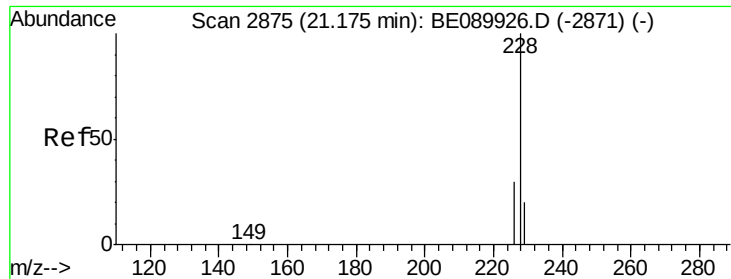
Tgt Ion: 244 Resp: 259485  
 Ion Ratio Lower Upper  
 244 100  
 212 8.4 6.1 9.1  
 122 14.6 8.7 13.1#



#28  
 Benzo(a)anthracene  
 Concen: 0.07 ng  
 RT: 21.12 min Scan# 2869  
 Delta R.T. 0.00 min  
 Lab File: BE089967.D  
 Acq: 27 Jun 2015 9:21

Tgt Ion: 228 Resp: 3379  
 Ion Ratio Lower Upper  
 228 100  
 226 29.0 22.2 33.4  
 229 22.3 15.3 22.9





#29

Chrysene

Concen: 0.05 ng

RT: 21.17 min Scan# 2876

Delta R.T. -0.01 min

Lab File: BE089967.D

Acq: 27 Jun 2015 9:21

Instrument :

BNA\_E

ClientSampleId :

X1SS0700204-150624

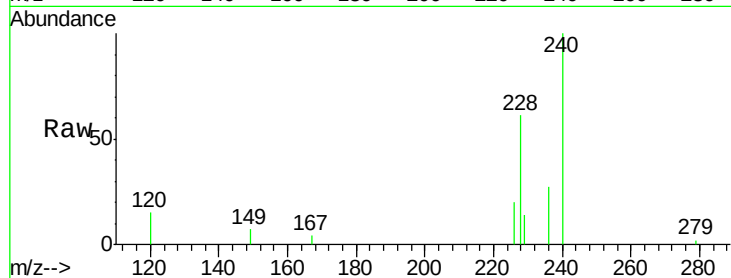
Tgt Ion:228 Resp: 2897

Ion Ratio Lower Upper

228 100

226 33.3 23.7 35.5

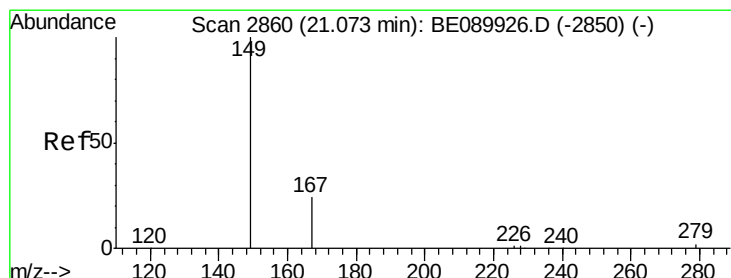
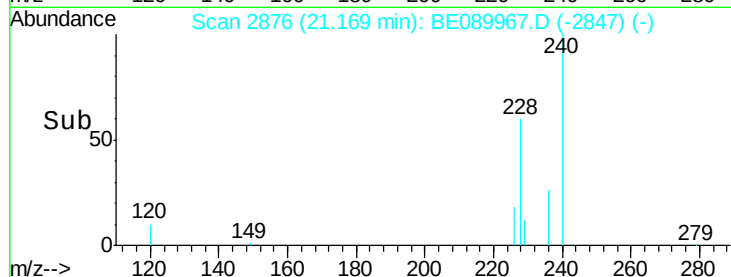
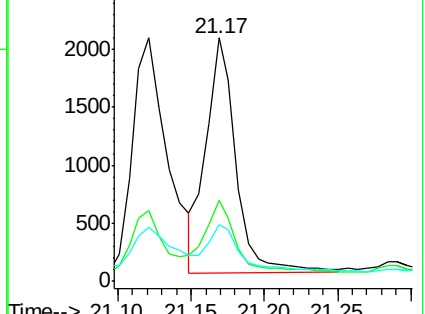
229 23.1 15.8 23.8



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



#30

Bis(2-ethylhexyl)phthalate

Concen: 1.32 ng

RT: 21.07 min Scan# 2861

Delta R.T. -0.01 min

Lab File: BE089967.D

Acq: 27 Jun 2015 9:21

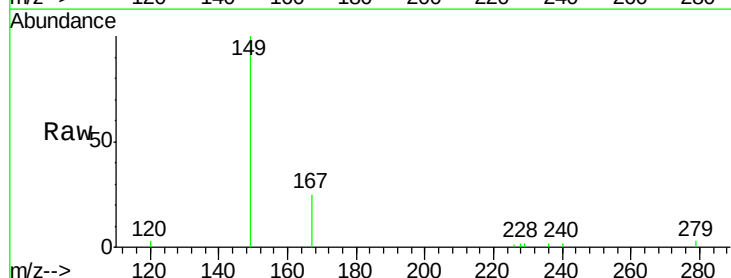
Tgt Ion:149 Resp: 5432

Ion Ratio Lower Upper

149 100

167 25.4 20.3 30.5

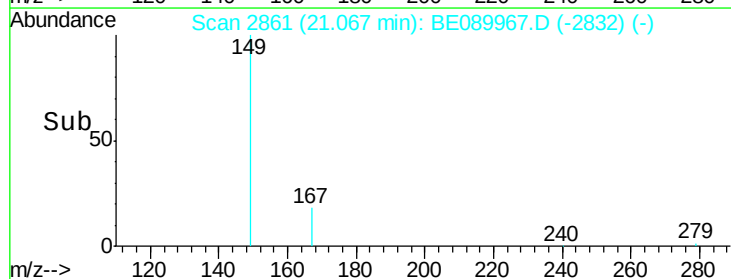
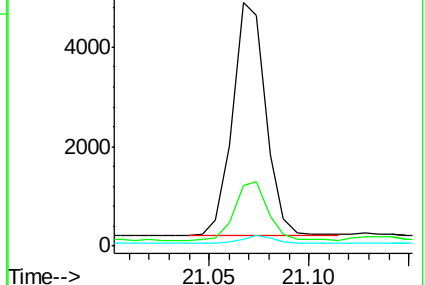
279 3.0 2.7 4.1

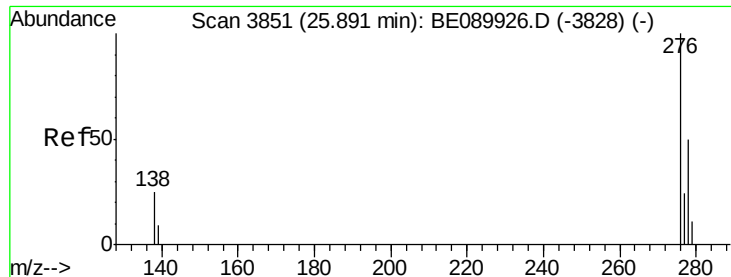


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#31

Indeno(1,2,3-cd)pyrene

Concen: 0.05 ng

RT: 25.88 min Scan# 3850

Delta R.T. -0.01 min

Lab File: BE089967.D

Acq: 27 Jun 2015 9:21

Instrument :

BNA\_E

ClientSampleId :

X1SS0700204-150624

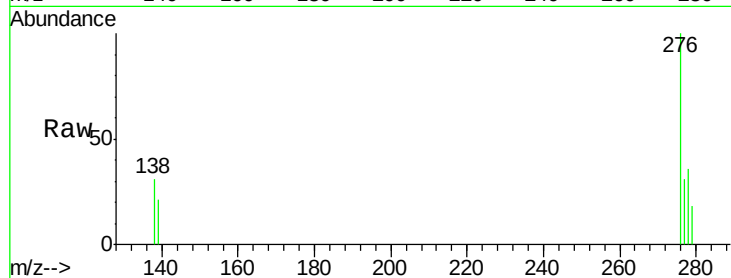
Tgt Ion:276 Resp: 1806

Ion Ratio Lower Upper

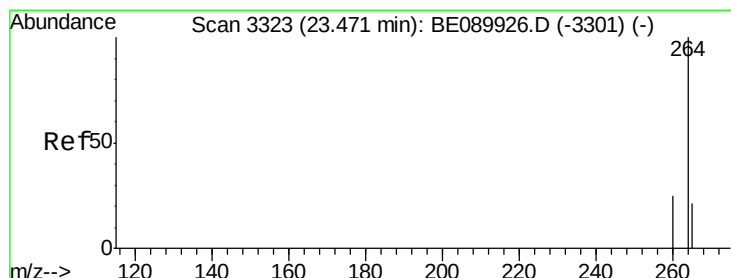
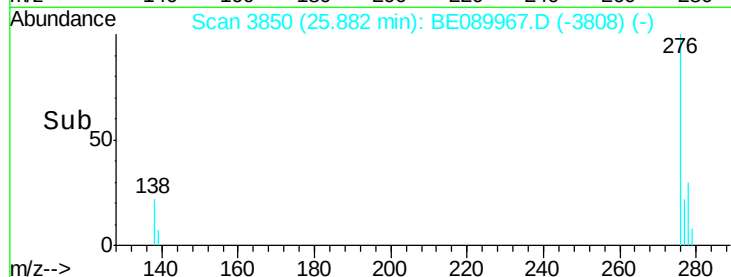
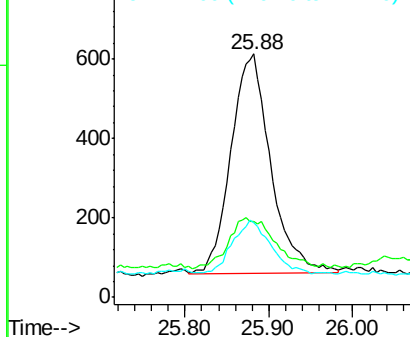
276 100

138 26.8 0.0 0.0#

277 22.8 0.0 0.0#



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



#32

Perylene-d12

Concen: 5.00 ng

RT: 23.46 min Scan# 3323

Delta R.T. -0.01 min

Lab File: BE089967.D

Acq: 27 Jun 2015 9:21

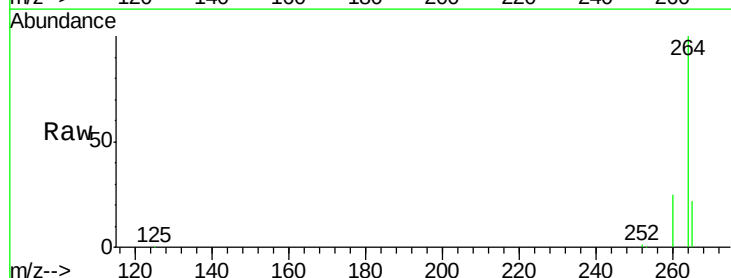
Tgt Ion:264 Resp: 182832

Ion Ratio Lower Upper

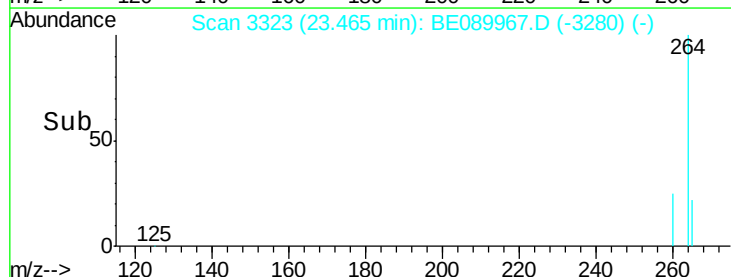
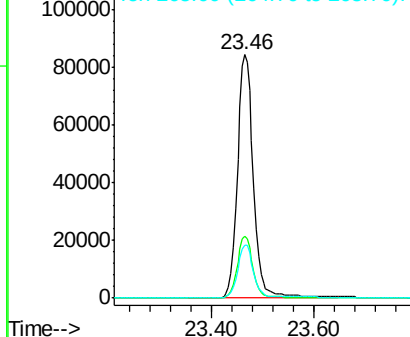
264 100

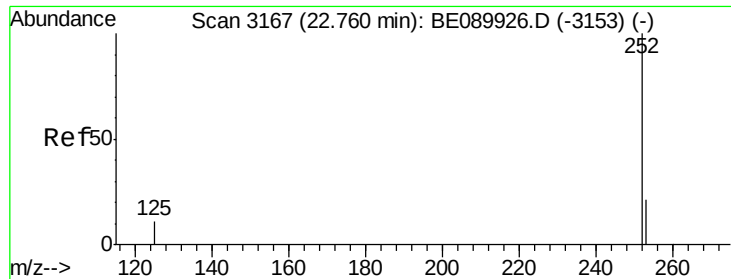
260 25.3 19.8 29.6

265 21.9 17.3 25.9



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E





#33

Benzo(b)fluoranthene

Concen: 0.09 ng

RT: 22.75 min Scan# 3167

Delta R.T. -0.01 min

Lab File: BE089967.D

Acq: 27 Jun 2015 9:21

Instrument :

BNA\_E

ClientSampleId :

X1SS0700204-150624

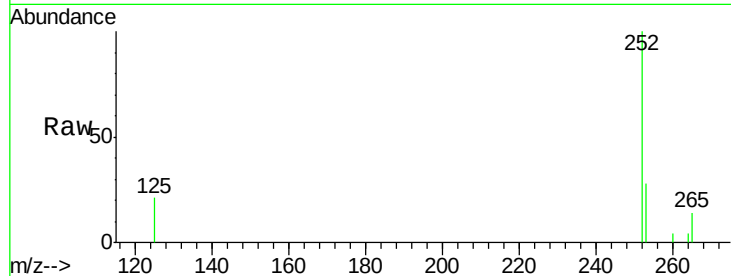
Tgt Ion:252 Resp: 3391

Ion Ratio Lower Upper

252 100

253 28.4 17.3 25.9#

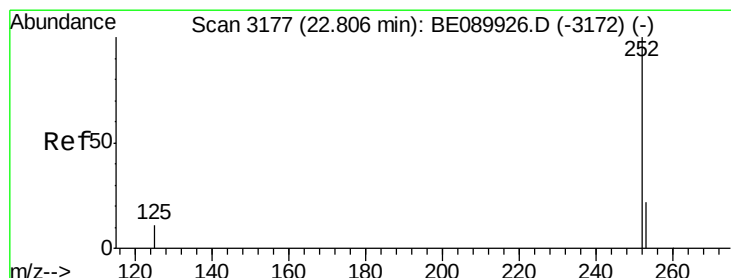
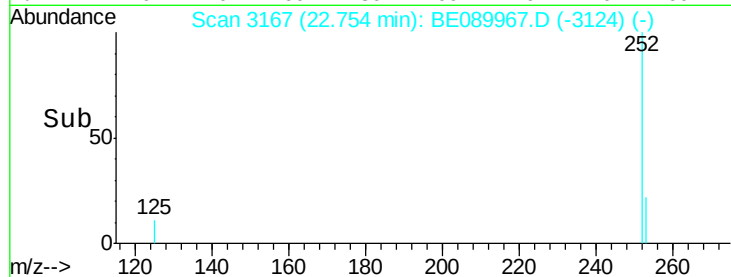
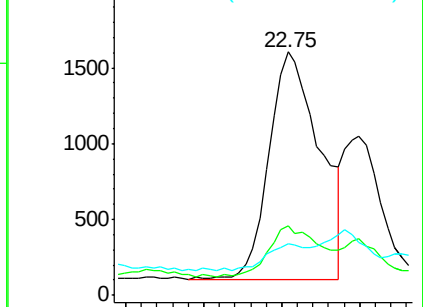
125 21.4 9.3 13.9#



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



#34

Benzo(k)fluoranthene

Concen: 0.03 ng

RT: 22.80 min Scan# 3177

Delta R.T. -0.01 min

Lab File: BE089967.D

Acq: 27 Jun 2015 9:21

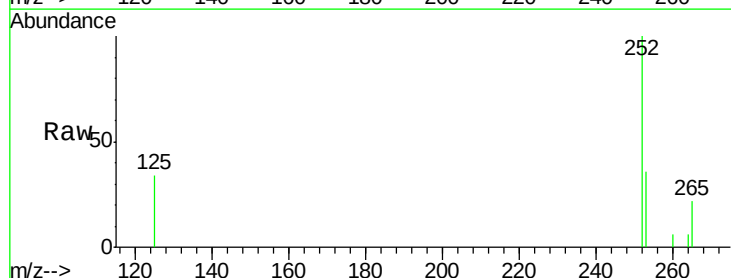
Tgt Ion:252 Resp: 1487

Ion Ratio Lower Upper

252 100

253 35.6 17.9 26.9#

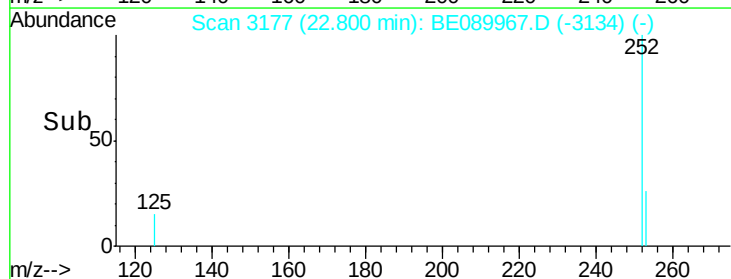
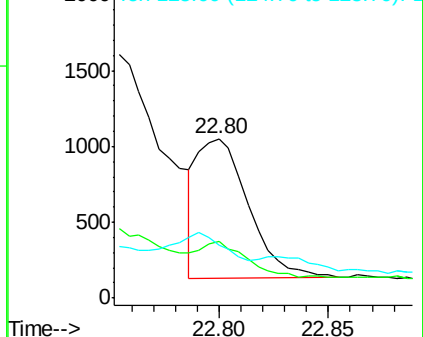
125 33.6 9.2 13.8#

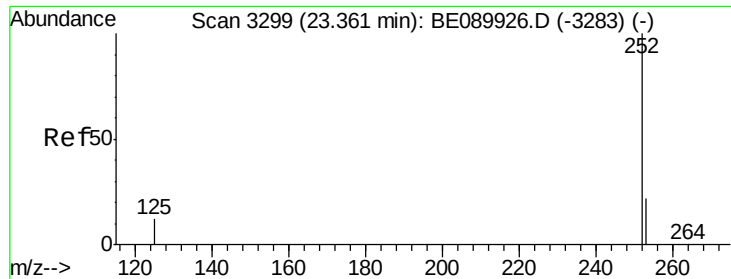


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#35

Benzo(a)pyrene

Concen: 0.06 ng

RT: 23.36 min Scan# 3299

Delta R.T. -0.01 min

Lab File: BE089967.D

Acq: 27 Jun 2015 9:21

Instrument :

BNA\_E

ClientSampleId :

X1SS0700204-150624

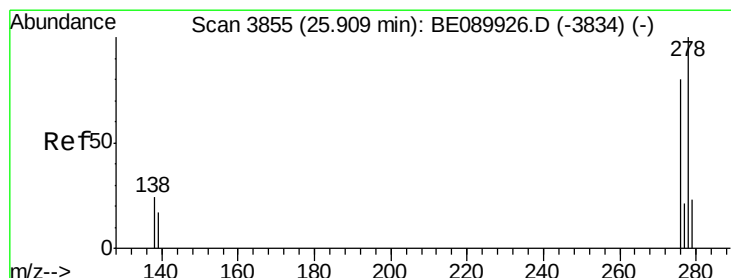
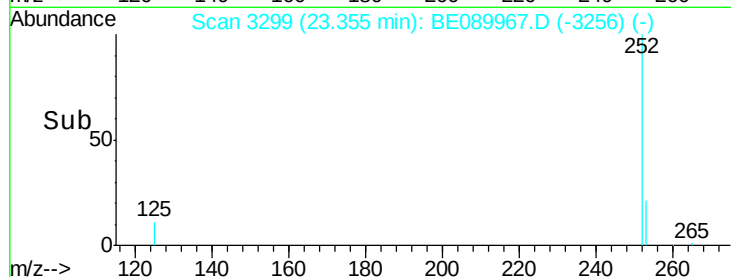
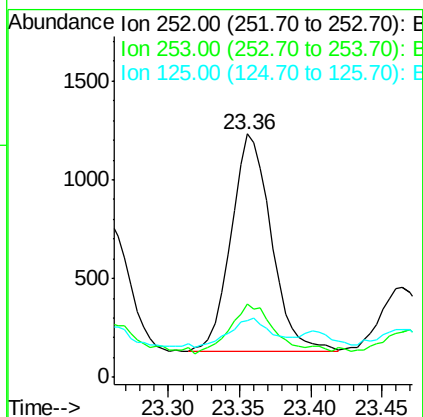
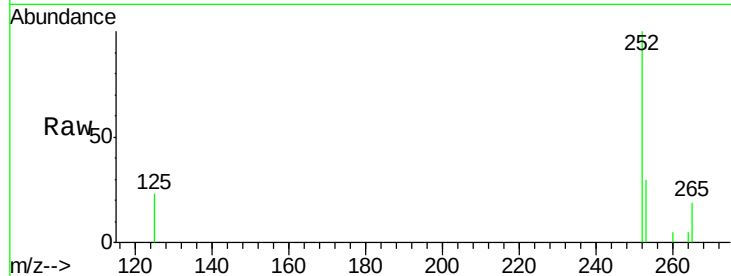
Tgt Ion: 252 Resp: 2193

Ion Ratio Lower Upper

252 100

253 30.3 17.8 26.6#

125 23.4 10.3 15.5#



#36

Dibenzo(a,h)anthracene

Concen: 0.02 ng

RT: 25.90 min Scan# 3853

Delta R.T. -0.01 min

Lab File: BE089967.D

Acq: 27 Jun 2015 9:21

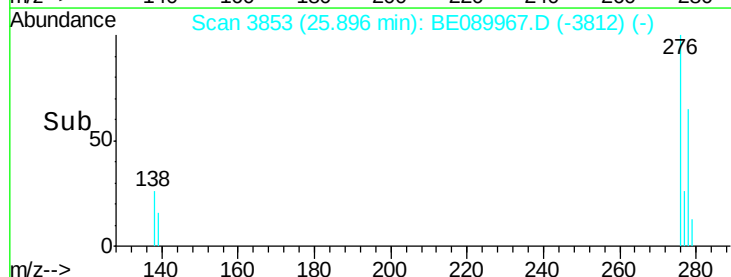
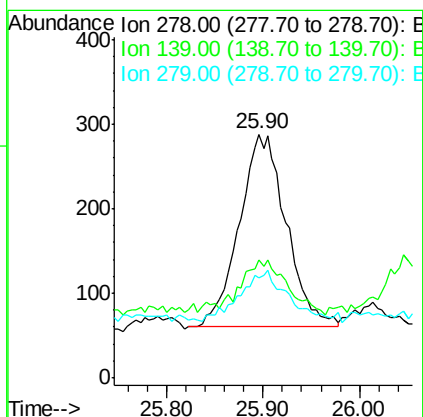
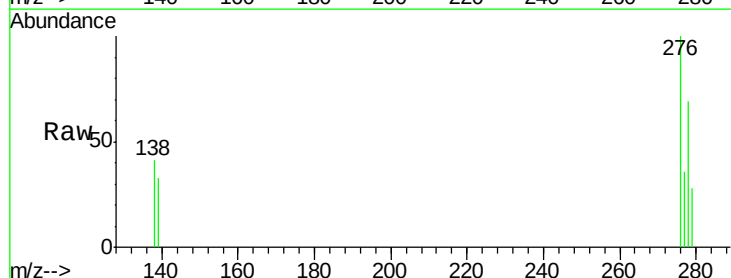
Tgt Ion: 278 Resp: 773

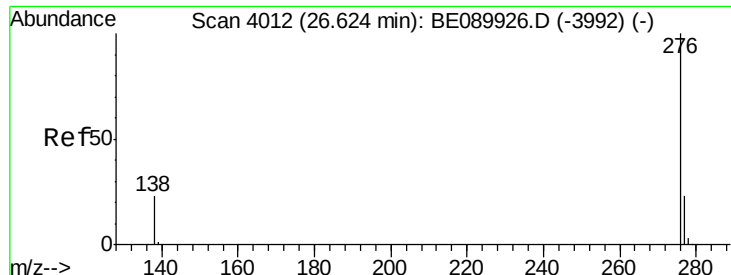
Ion Ratio Lower Upper

278 100

139 48.3 14.1 21.1#

279 41.0 19.0 28.6#





#37

Benzo(g,h,i)perylene

Concen: 0.05 ng

RT: 26.62 min Scan# 4012

Delta R.T. -0.00 min

Lab File: BE089967.D

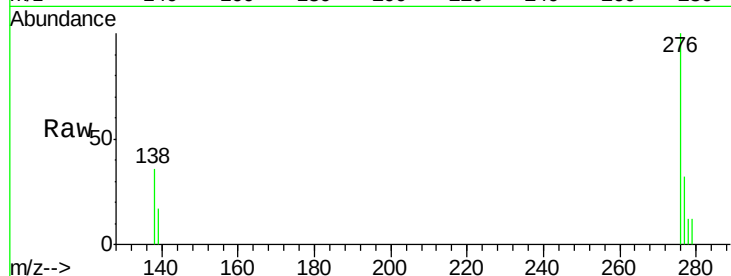
Acq: 27 Jun 2015 9:21

Instrument :

BNA\_E

ClientSampleId :

X1SS0700204-150624



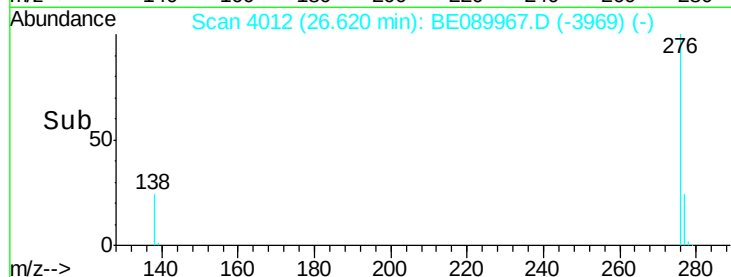
Tgt Ion: 276 Resp: 1797

Ion Ratio Lower Upper

276 100

277 32.3 19.0 28.4#

138 35.7 18.8 28.2#



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

