

Data Path : Z:\HPCHEM1\BNA\_E\Data\BE022615\  
 Data File : BE089714.D  
 Acq On : 27 Feb 2015 6:35  
 Operator : TP/JJ  
 Sample : PB81904BL  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB81904BL

Quant Time: Feb 27 14:13:18 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SIM-BE022615.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 27 13:38:44 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.33  | 152  | 41060    | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8         | 12.23 | 136  | 171954   | 5.00 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 16.40 | 164  | 78993    | 5.00 | ng    | 0.00     |
| 17) Phenanthrene-d10      | 19.76 | 188  | 143181   | 5.00 | ng    | 0.00     |
| 20) Chrysene-d12          | 23.65 | 240  | 114393   | 5.00 | ng    | 0.00     |
| 27) Perylene-d12          | 25.33 | 264  | 93340    | 5.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 3) 2-Fluorophenol           | 6.49  | 112  | 175035   | 17.61 | ng    | 0.00     |
| 4) Phenol-d6                | 8.61  | 99   | 234630   | 17.39 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 10.60 | 82   | 123845   | 11.59 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 18.30 | 330  | 17787    | 13.06 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 14.87 | 172  | 216256   | 12.32 | ng    | 0.00     |
| 22) Terphenyl-d14           | 22.30 | 244  | 204041   | 14.72 | ng    | 0.00     |

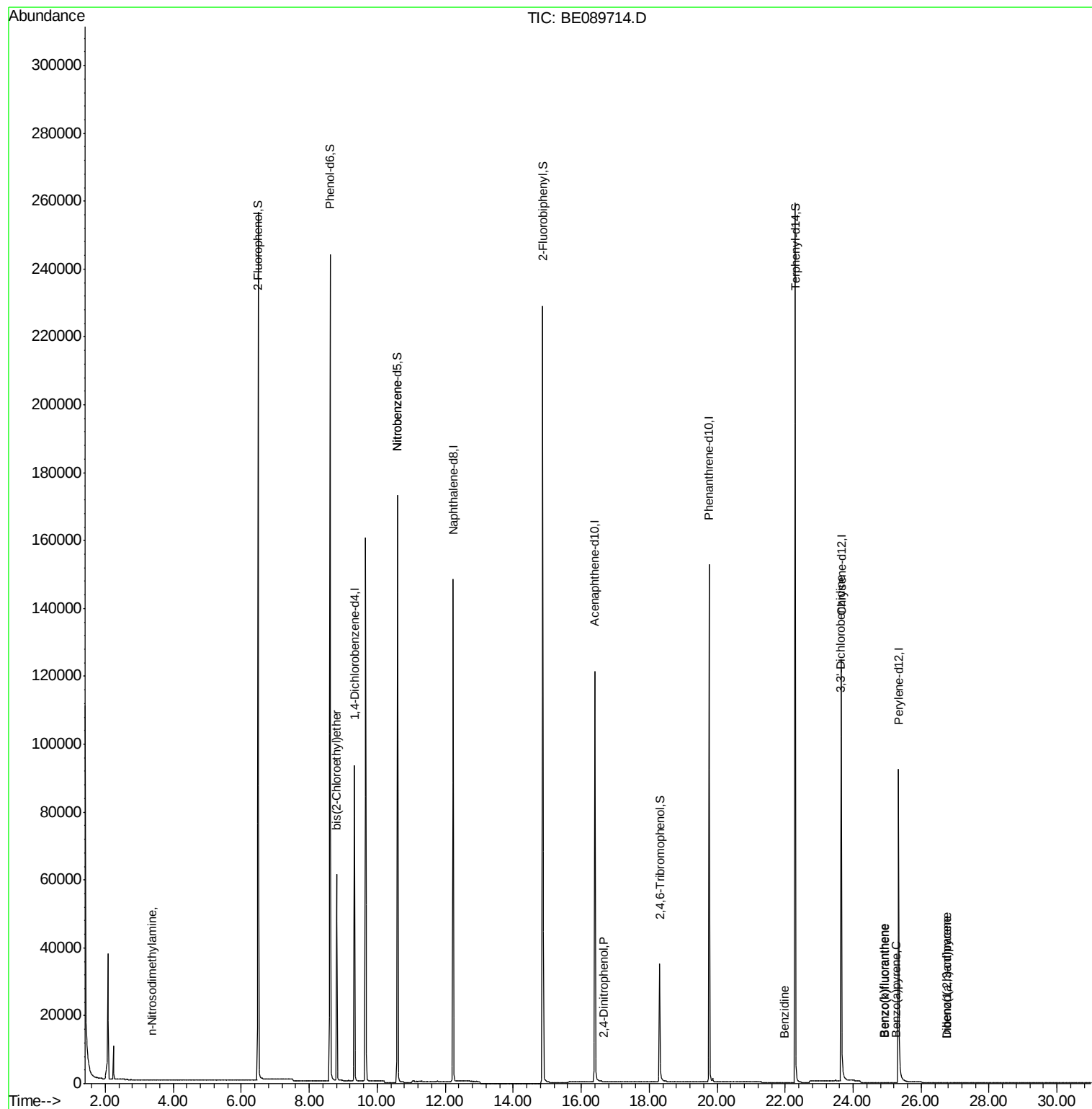
| Target Compounds           | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|----------------------------|-------|------|----------|-----------|-------|--------|
| 2) n-Nitrosodimethylamine  | 3.36  | 42   | 23       | 0.16      | ng    | # 1    |
| 6) bis(2-Chloroethyl)ether | 8.81  | 93   | 240      | 0.02      | ng    | # 1    |
| 9) Nitrobenzene            | 10.60 | 77   | 369      | 0.04      | ng    | # 35   |
| 16) 2,4-Dinitrophenol      | 16.66 | 184  | 2        | 0.31      | ng    | # 70   |
| 19) Pentachlorophenol      | 19.45 | 266  | 9        | Below Cal |       | # 64   |
| 21) Benzidine              | 21.97 | 184  | 56       | 0.24      | ng    | # 1    |
| 24) 3,3'-Dichlorobenzidine | 23.63 | 252  | 22       | 0.43      | ng    | # 1    |
| 26) Indeno(1,2,3-cd)pyrene | 26.75 | 276  | 9        | 0.38      | ng    | # 74   |
| 28) Benzo(b)fluoranthene   | 24.91 | 252  | 26       | 0.41      | ng    | # 1    |
| 29) Benzo(k)fluoranthene   | 24.93 | 252  | 20       | 0.11      | ng    | # 1    |
| 30) Benzo(a)pyrene         | 25.26 | 252  | 14       | 0.37      | ng    | # 1    |
| 31) Dibenzo(a,h)anthracene | 26.77 | 278  | 16       | 0.40      | ng    | # 1    |

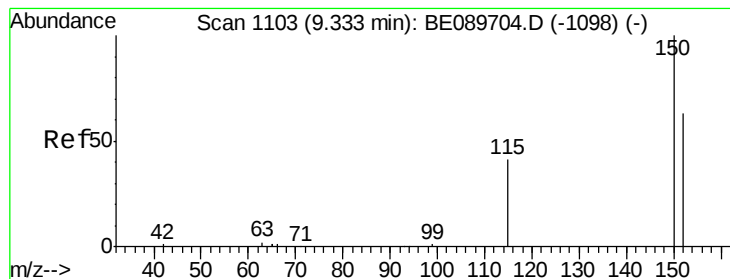
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.33 min Scan# 1103

Delta R.T. 0.00 min

Lab File: BE089714.D

Acq: 27 Feb 2015 6:35

Instrument :

BNA\_E

ClientSampleId :

PB81904BL

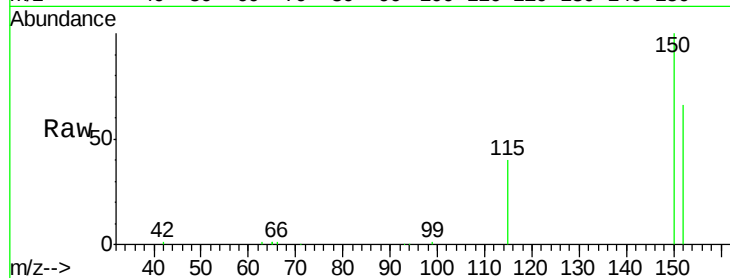
Tgt Ion:152 Resp: 41060

Ion Ratio Lower Upper

152 100

150 152.5 127.3 190.9

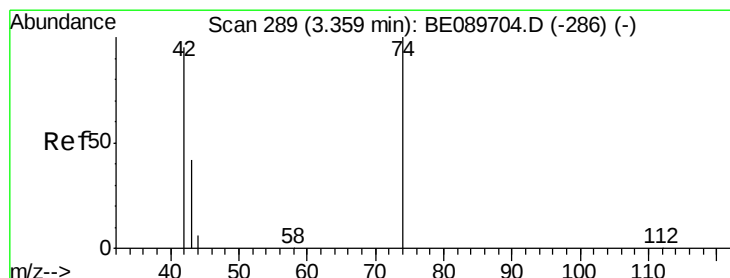
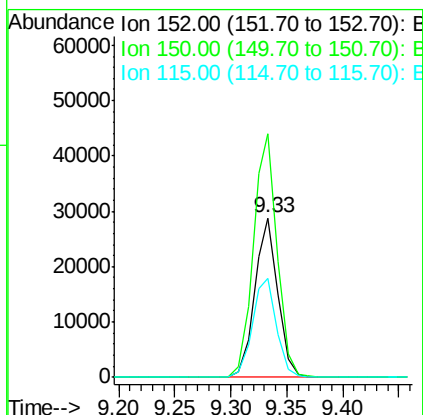
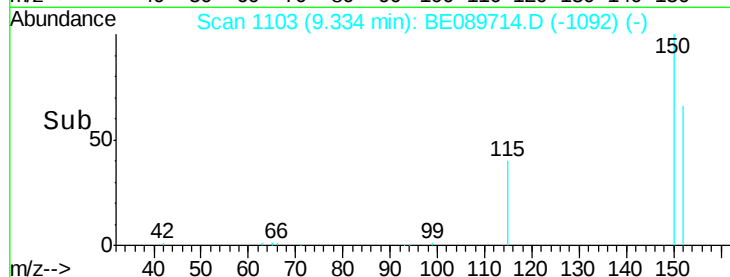
115 61.6 52.0 78.0



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

n-Nitrosodimethylamine

Concen: 0.16 ng

RT: 3.36 min Scan# 289

Delta R.T. -0.00 min

Lab File: BE089714.D

Acq: 27 Feb 2015 6:35

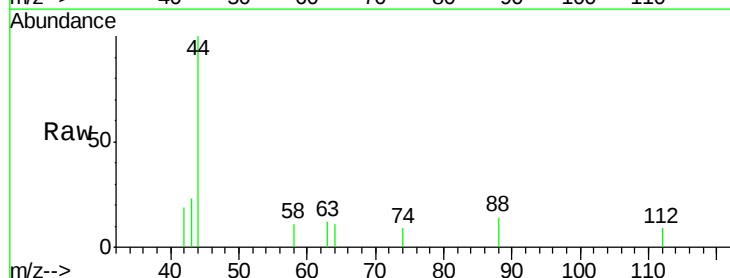
Tgt Ion: 42 Resp: 23

Ion Ratio Lower Upper

42 100

74 49.0 83.8 125.8#

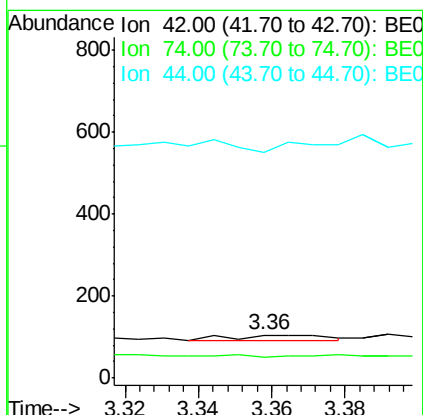
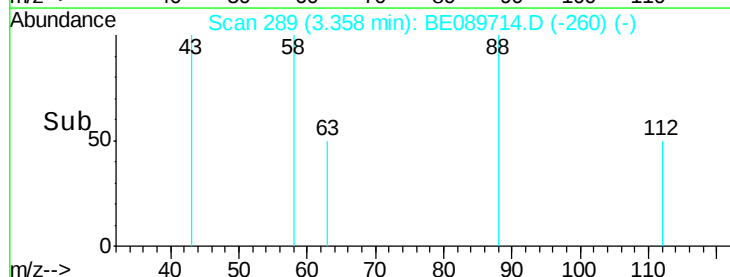
44 529.8 19.0 28.6#

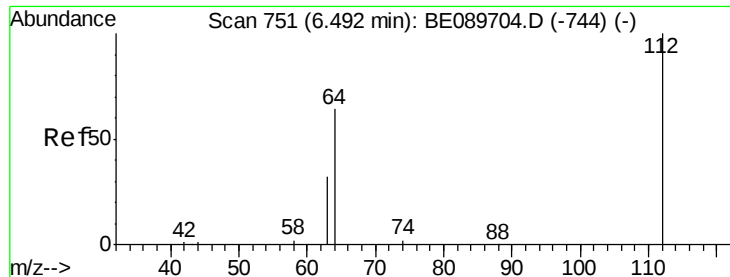


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0

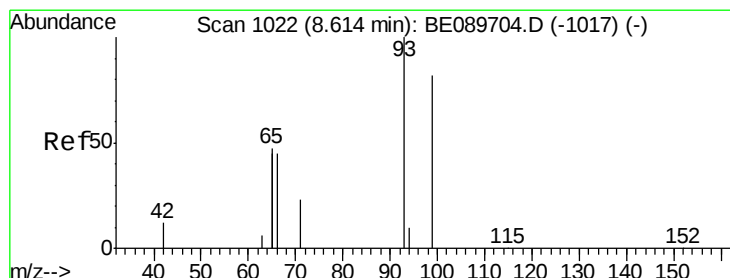
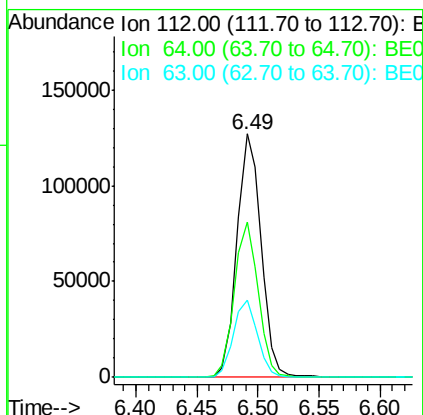
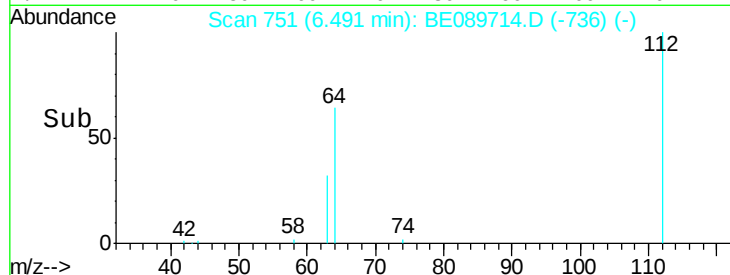
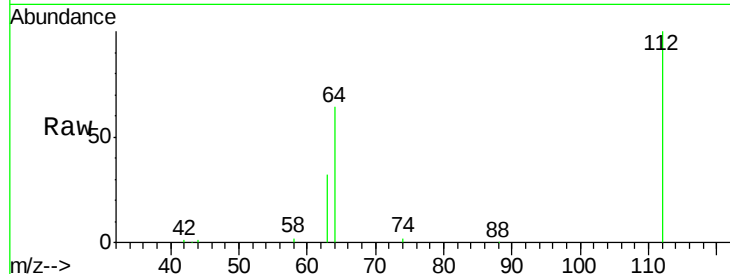




#3  
 2-Fluorophenol  
 Concen: 17.61 ng  
 RT: 6.49 min Scan# 751  
 Delta R.T. -0.00 min  
 Lab File: BE089714.D  
 Acq: 27 Feb 2015 6:35

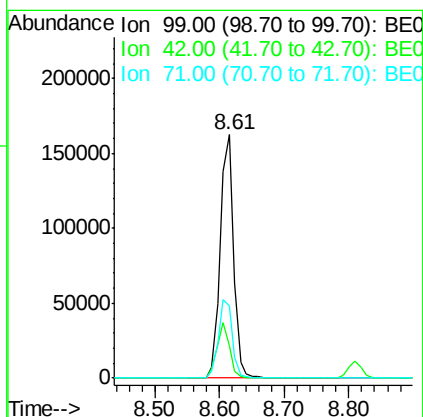
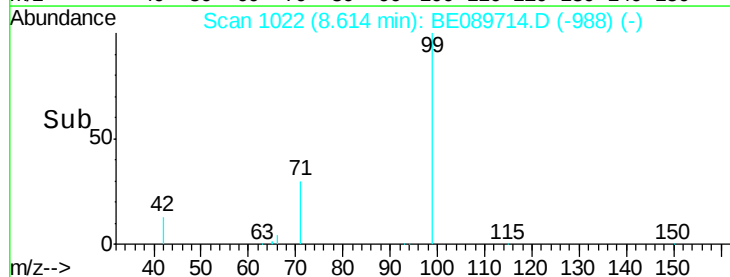
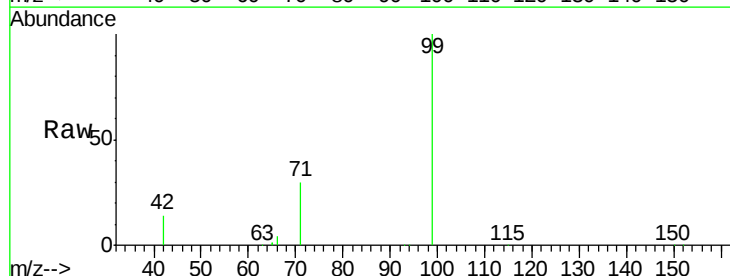
Instrument :  
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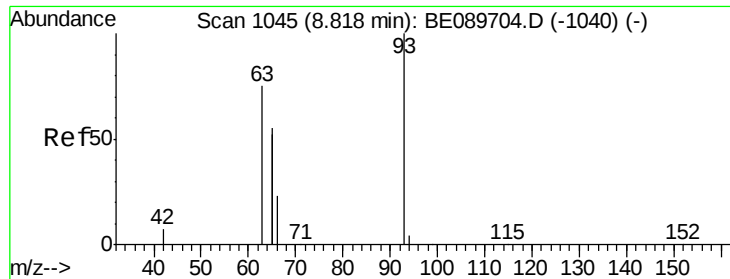
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 175035 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 64       | 63.8  | 51.3  | 76.9   |
| 63       | 31.8  | 26.2  | 39.2   |



#4  
 Phenol-d6  
 Concen: 17.39 ng  
 RT: 8.61 min Scan# 1022  
 Delta R.T. 0.00 min  
 Lab File: BE089714.D  
 Acq: 27 Feb 2015 6:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 99    | Resp: | 234630 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 13.5  | 12.3  | 18.5   |
| 71       | 29.5  | 22.9  | 34.3   |





#6

bis(2-Chloroethyl)ether

Concen: 0.02 ng

RT: 8.81 min Scan# 1044

Delta R.T. -0.01 min

Lab File: BE089714.D

Acq: 27 Feb 2015 6:35

Instrument :

BNA\_E

ClientSampleId :

PB81904BL

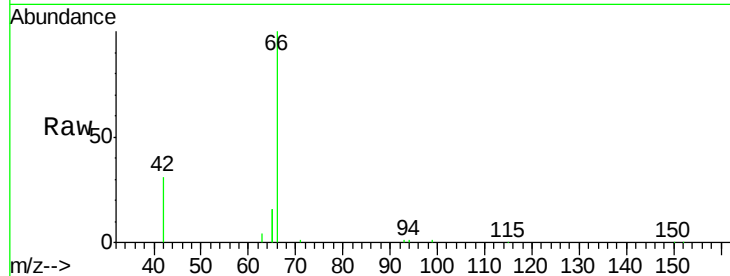
Tgt Ion: 93 Resp: 240

Ion Ratio Lower Upper

93 100

63 848.8 83.8 125.8#

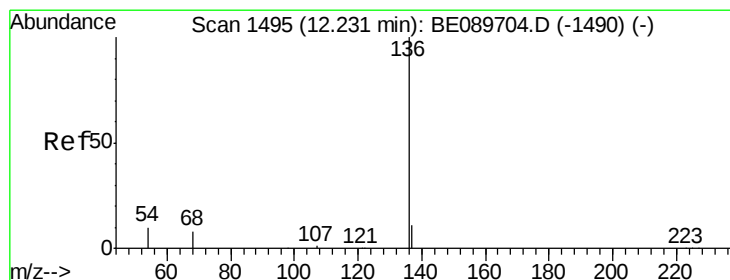
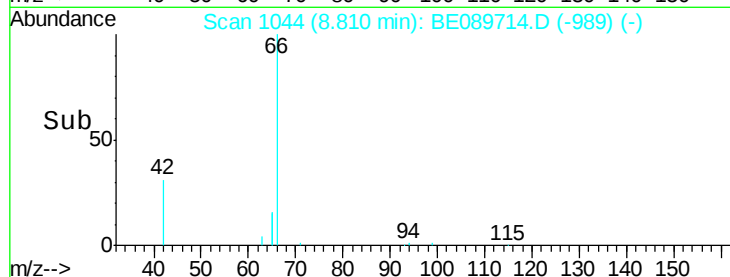
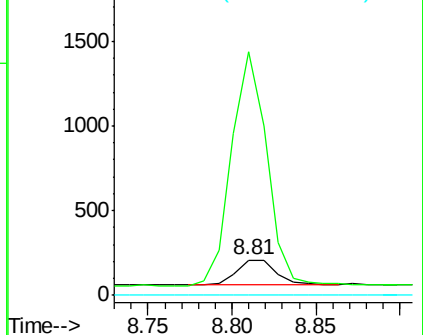
95 0.0 0.0 0.0



Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 12.23 min Scan# 1495

Delta R.T. 0.00 min

Lab File: BE089714.D

Acq: 27 Feb 2015 6:35

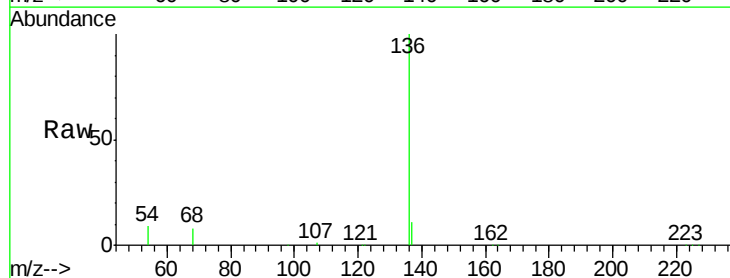
Tgt Ion: 136 Resp: 171954

Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

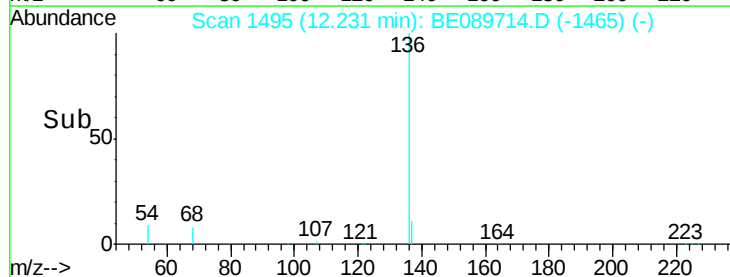
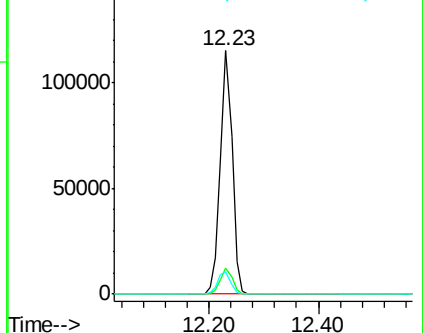
54 9.3 8.1 12.1

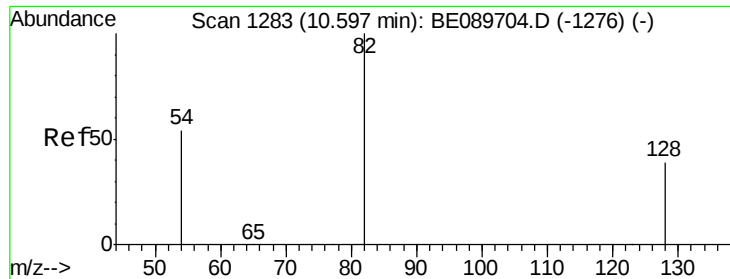


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#8

Nitrobenzene-d5

Concen: 11.59 ng

RT: 10.60 min Scan# 1283

Delta R.T. 0.00 min

Lab File: BE089714.D

Acq: 27 Feb 2015 6:35

Instrument :

BNA\_E

ClientSampleId :

PB81904BL

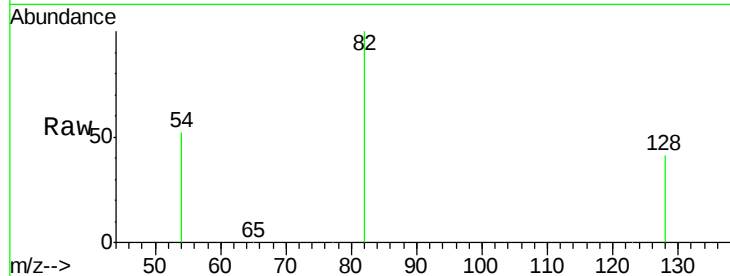
Tgt Ion: 82 Resp: 123845

Ion Ratio Lower Upper

82 100

128 41.3 31.4 47.2

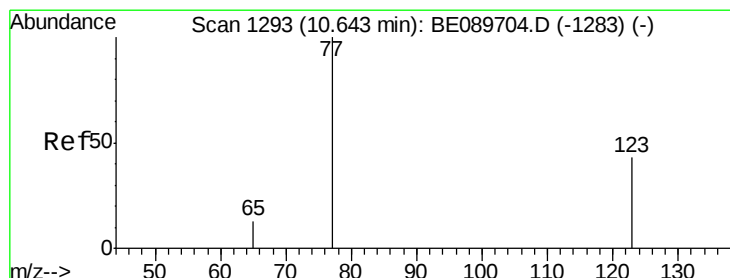
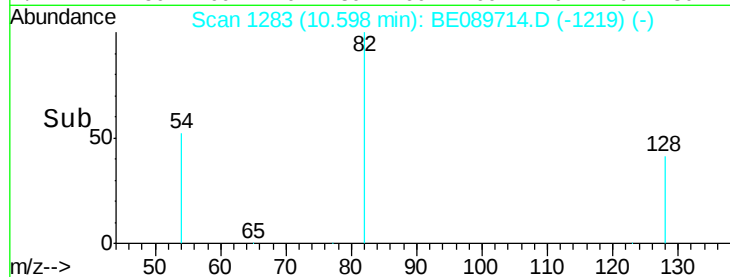
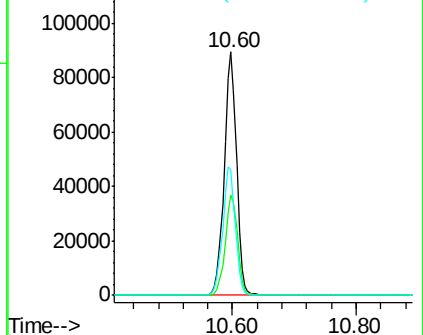
54 51.8 43.8 65.8



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



#9

Nitrobenzene

Concen: 0.04 ng

RT: 10.60 min Scan# 1283

Delta R.T. -0.05 min

Lab File: BE089714.D

Acq: 27 Feb 2015 6:35

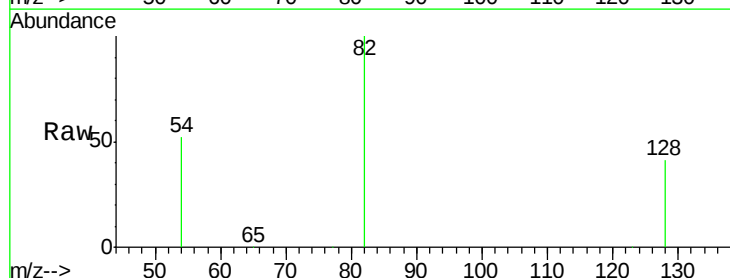
Tgt Ion: 77 Resp: 369

Ion Ratio Lower Upper

77 100

123 0.0 33.2 49.8#

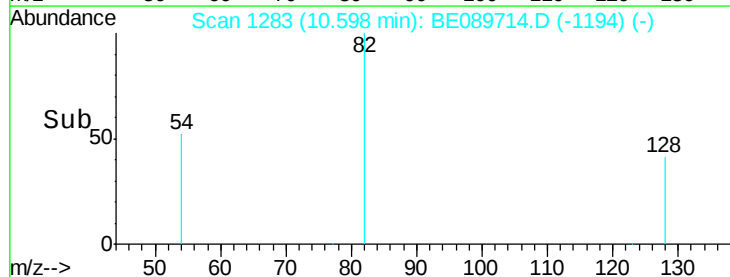
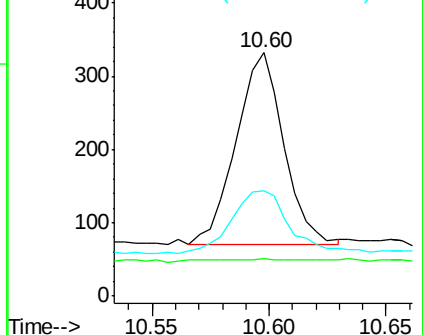
65 37.7 10.6 15.8#

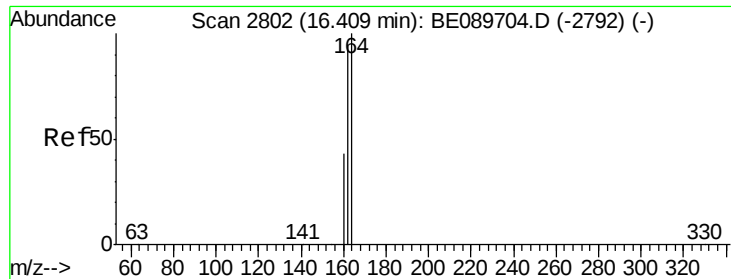


Abundance Ion 77.00 (76.70 to 77.70): BE0

Ion 123.00 (122.70 to 123.70): BE0

Ion 65.00 (64.70 to 65.70): BE0





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.40 min Scan# 2801

Delta R.T. -0.01 min

Lab File: BE089714.D

Acq: 27 Feb 2015 6:35

Instrument :

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ClientSampleId :

PB81904BL

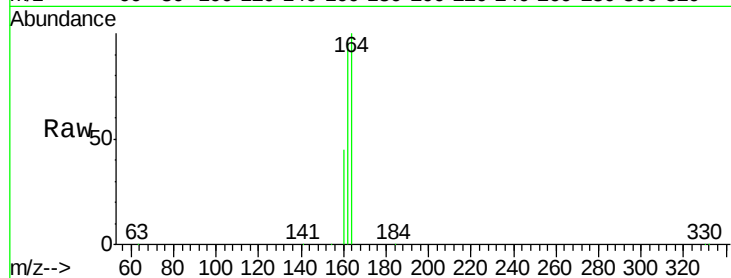
Tgt Ion:164 Resp: 78993

Ion Ratio Lower Upper

164 100

162 96.4 75.0 112.6

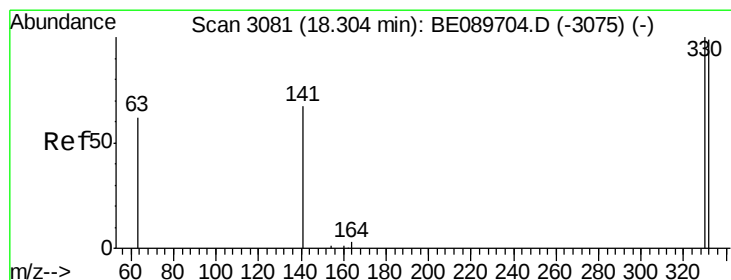
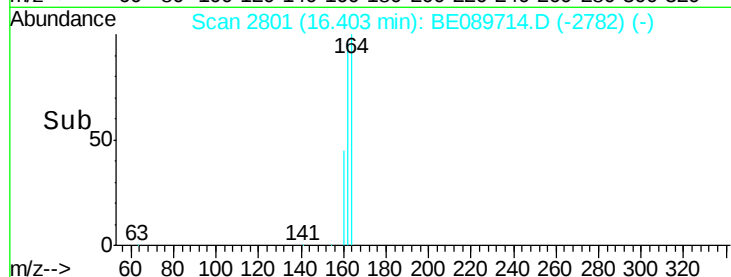
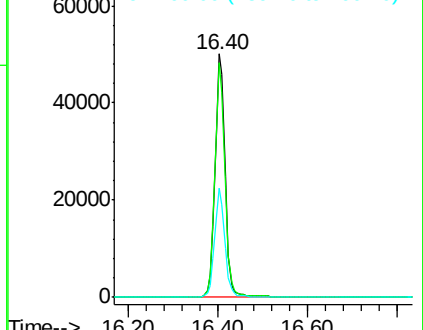
160 45.0 34.3 51.5



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



#14

2,4,6-Tribromophenol

Concen: 13.06 ng

RT: 18.30 min Scan# 3081

Delta R.T. 0.00 min

Lab File: BE089714.D

Acq: 27 Feb 2015 6:35

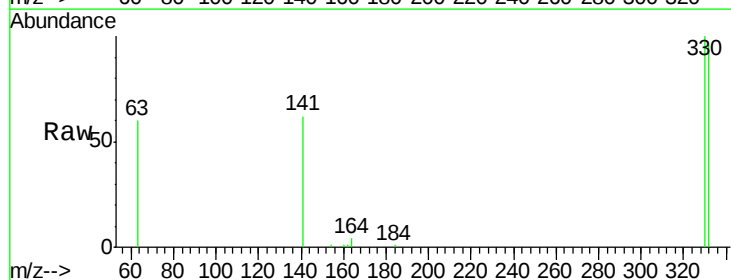
Tgt Ion:330 Resp: 17787

Ion Ratio Lower Upper

330 100

332 96.9 0.0 0.0#

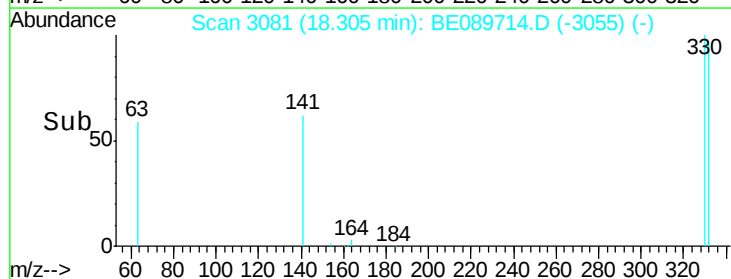
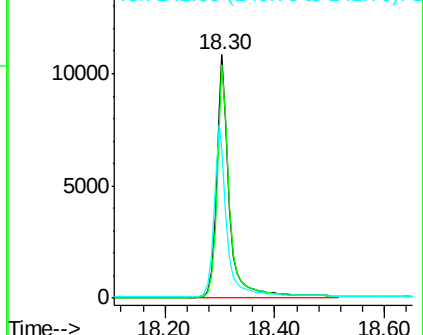
141 73.3 0.0 0.0#

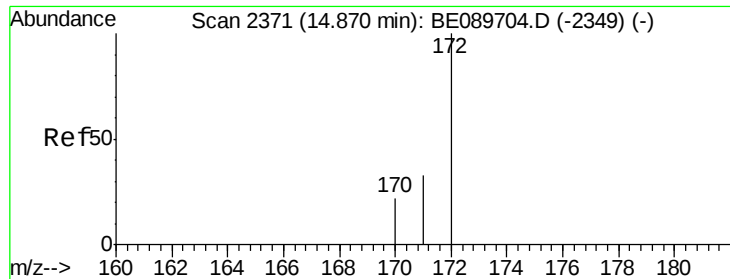


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

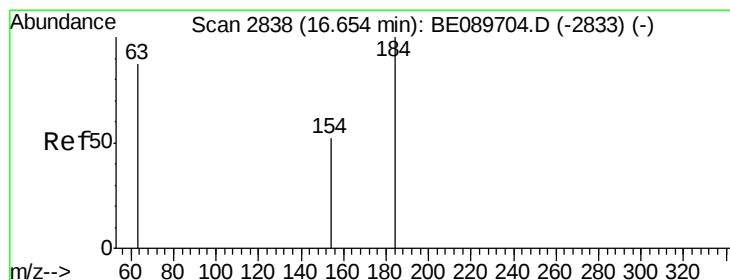
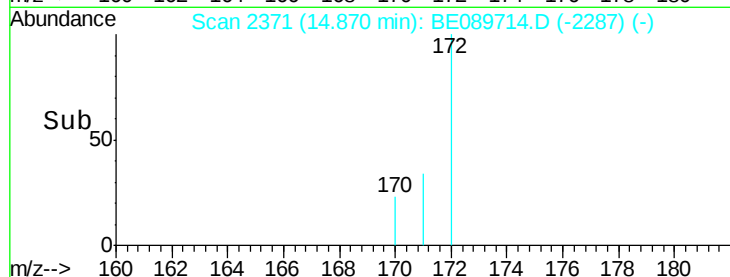
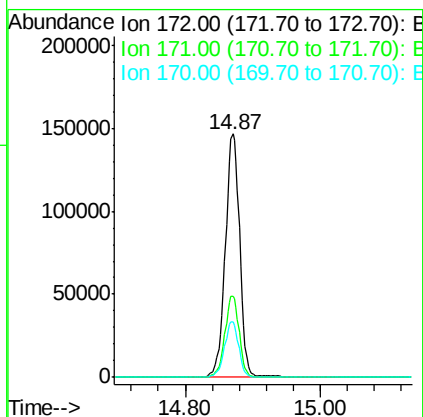
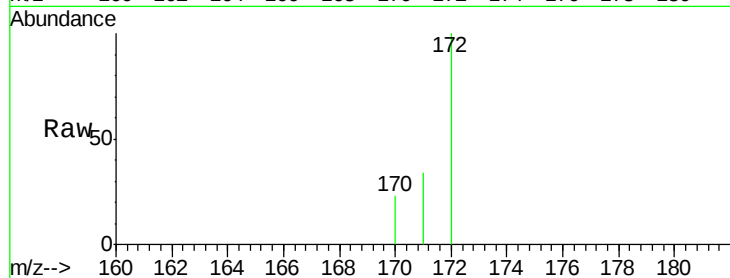




#15  
2-Fluorobiphenyl  
Concen: 12.32 ng  
RT: 14.87 min Scan# 2371  
Delta R.T. 0.00 min  
Lab File: BE089714.D  
Acq: 27 Feb 2015 6:35

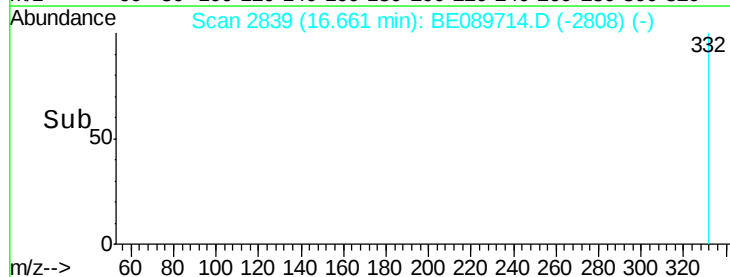
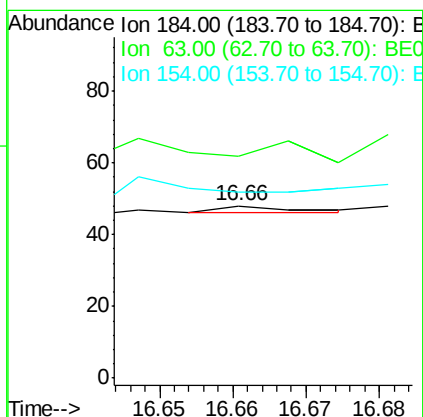
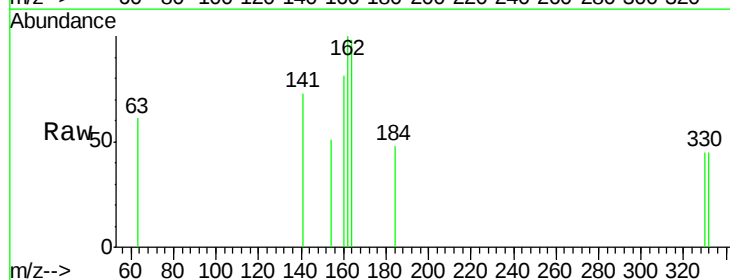
Instrument :  
BNA\_E  
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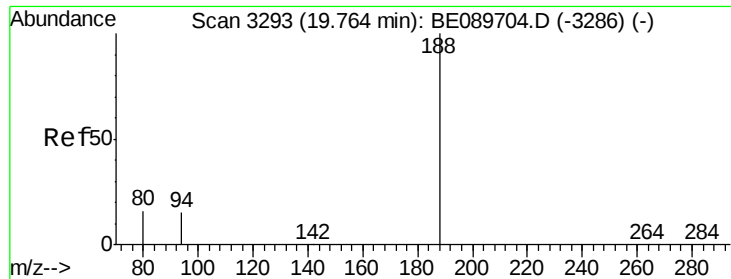
Tgt Ion:172 Resp: 216256  
Ion Ratio Lower Upper  
172 100  
171 33.5 26.8 40.2  
170 22.7 18.0 27.0



#16  
2,4-Dinitrophenol  
Concen: 0.31 ng  
RT: 16.66 min Scan# 2839  
Delta R.T. 0.01 min  
Lab File: BE089714.D  
Acq: 27 Feb 2015 6:35

Tgt Ion:184 Resp: 2  
Ion Ratio Lower Upper  
184 100  
63 129.2 82.4 123.6#  
154 108.3 61.4 92.2#

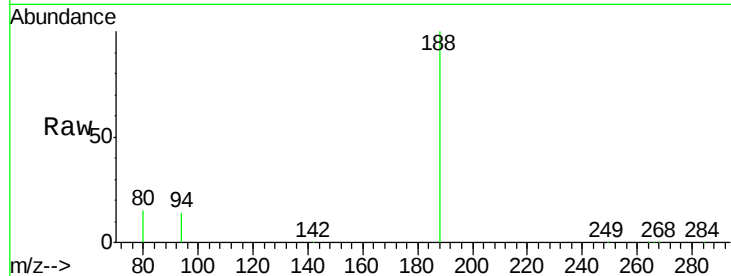




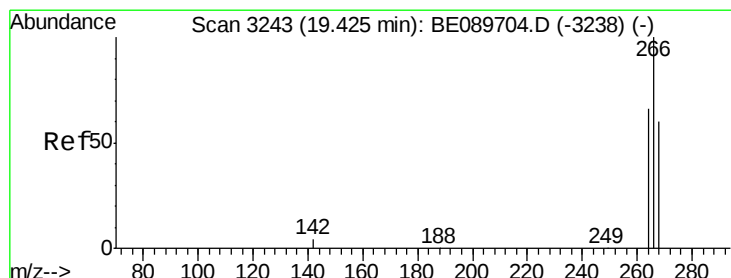
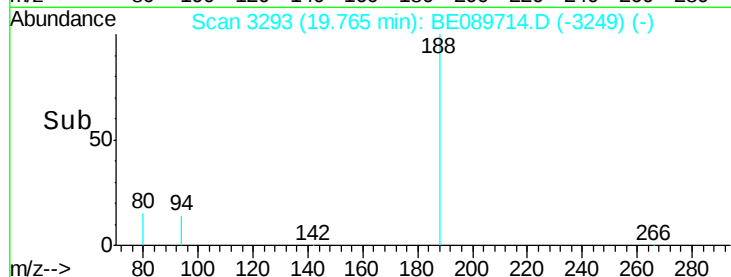
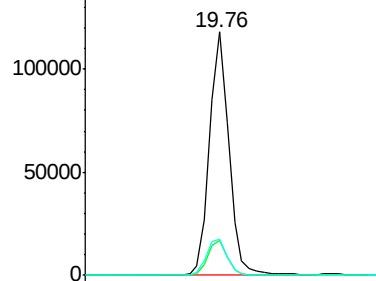
#17  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 19.76 min Scan# 3293  
Delta R.T. 0.00 min  
Lab File: BE089714.D  
Acq: 27 Feb 2015 6:35

Instrument :  
BNA\_E  
ClientSampleId :  
PB81904BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 14.2  | 12.1  | 18.1  |
| 80      | 15.0  | 12.7  | 19.1  |

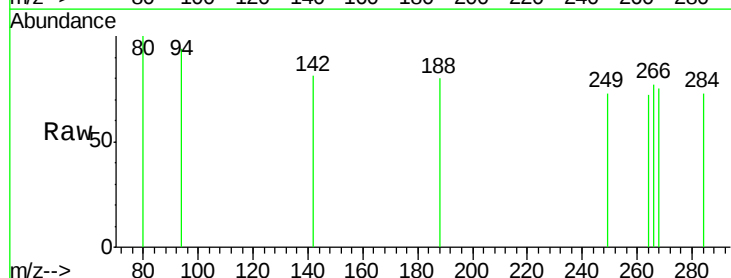


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BE0  
Ion 80.00 (79.70 to 80.70): BE0

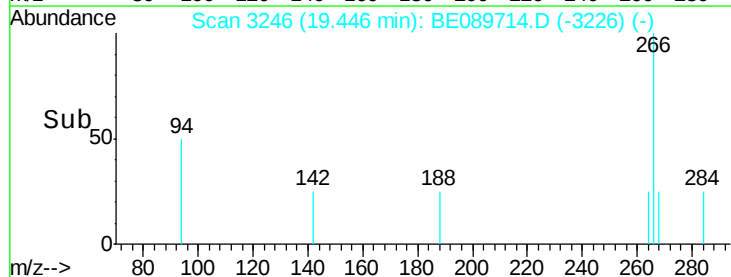
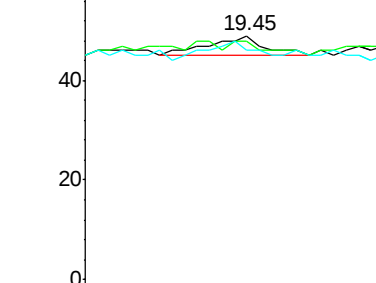


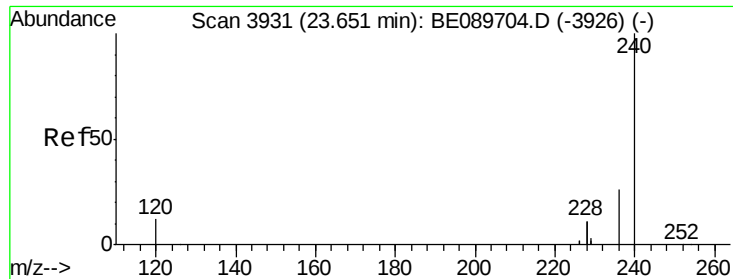
#19  
Pentachlorophenol  
Concen: Below Cal  
RT: 19.45 min Scan# 3246  
Delta R.T. 0.02 min  
Lab File: BE089714.D  
Acq: 27 Feb 2015 6:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 98.0  | 51.4  | 77.2# |
| 264     | 93.9  | 55.8  | 83.8# |



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





#20

Chrysene-d12

Concen: 5.00 ng

RT: 23.65 min Scan# 3931

Delta R.T. 0.00 min

Lab File: BE089714.D

Acq: 27 Feb 2015 6:35

Instrument :

BNA\_E

ClientSampleId :

PB81904BL

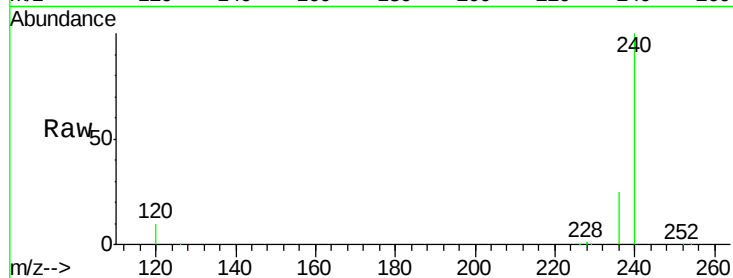
Tgt Ion:240 Resp: 114393

Ion Ratio Lower Upper

240 100

120 9.8 9.9 14.9#

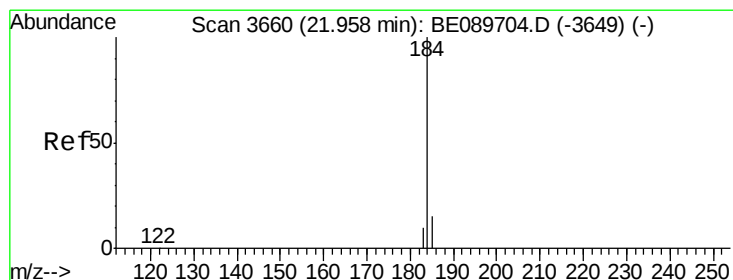
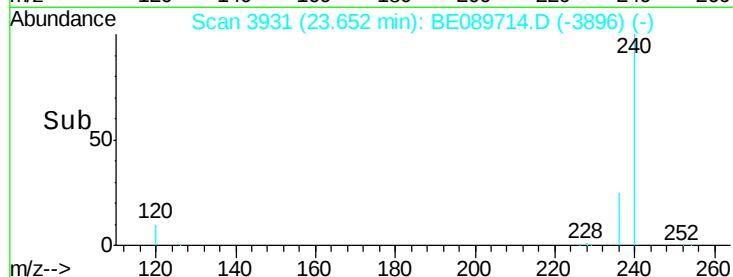
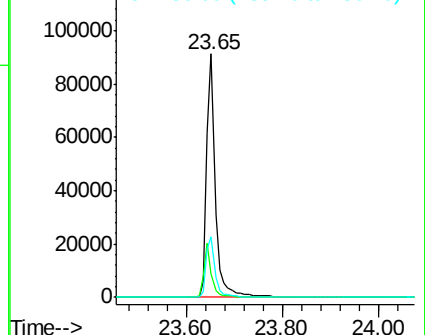
236 24.8 21.0 31.6



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#21

Benzidine

Concen: 0.24 ng

RT: 21.97 min Scan# 3663

Delta R.T. 0.01 min

Lab File: BE089714.D

Acq: 27 Feb 2015 6:35

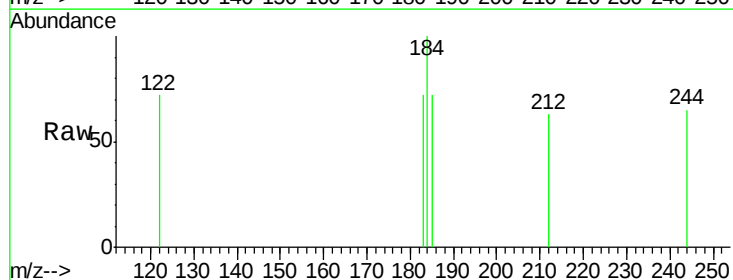
Tgt Ion:184 Resp: 56

Ion Ratio Lower Upper

184 100

185 71.8 12.8 19.2#

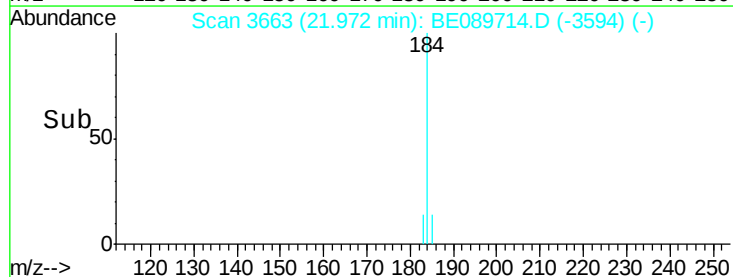
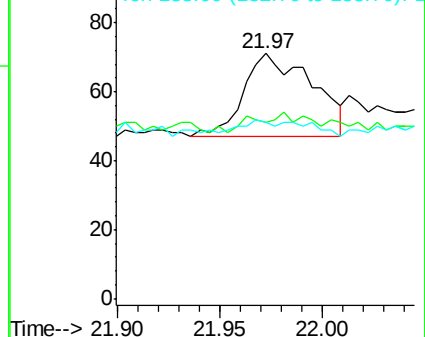
183 71.8 8.8 13.2#

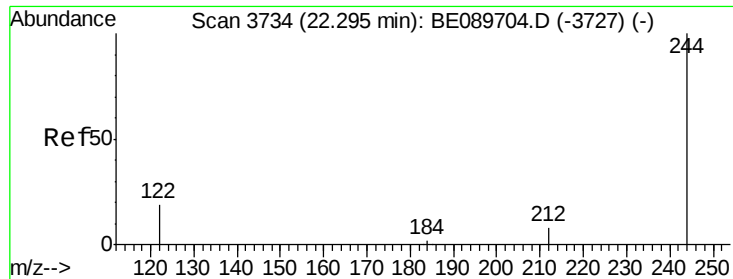


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

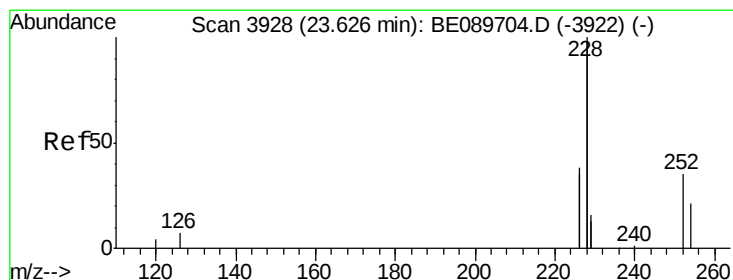
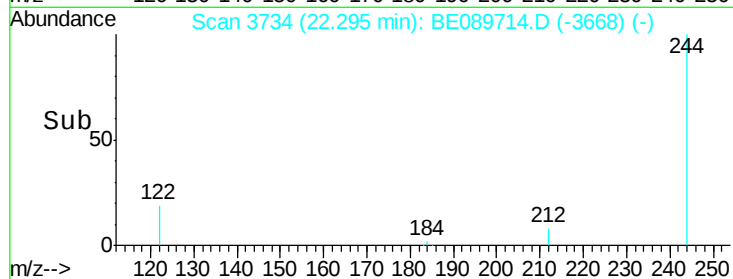
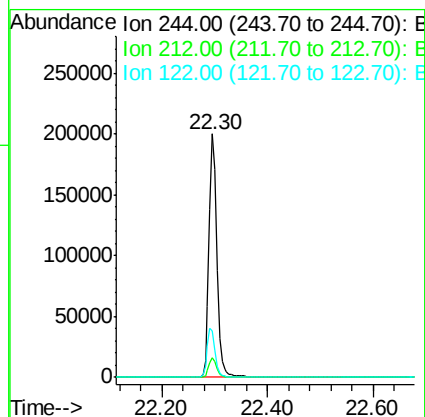
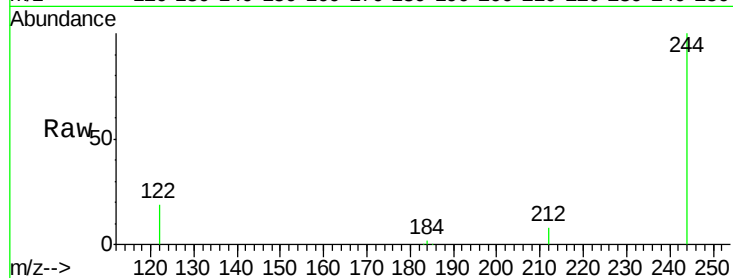




#22  
 Terphenyl-d14  
 Concen: 14.72 ng  
 RT: 22.30 min Scan# 3734  
 Delta R.T. 0.00 min  
 Lab File: BE089714.D  
 Acq: 27 Feb 2015 6:35

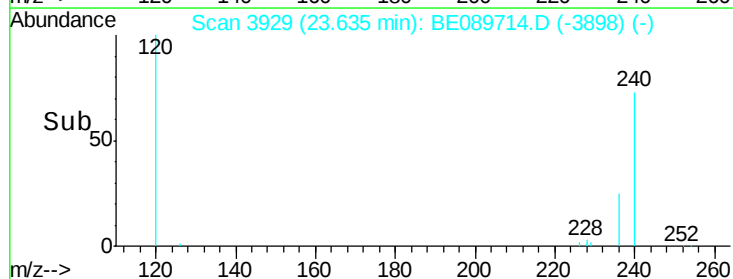
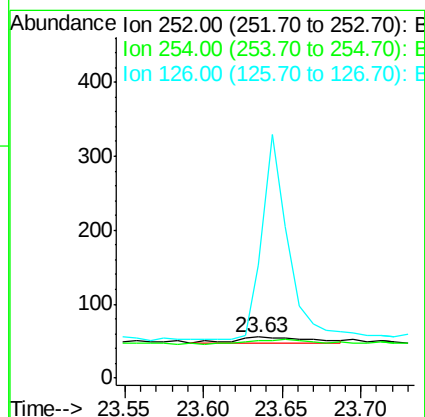
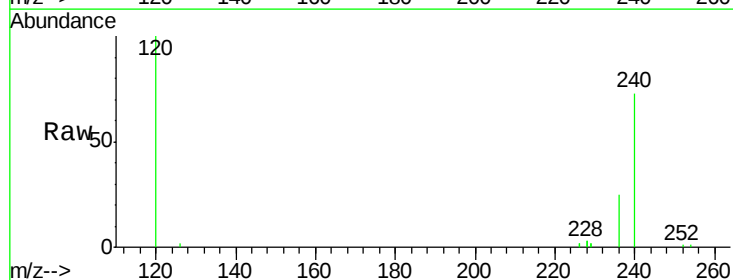
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB81904BL

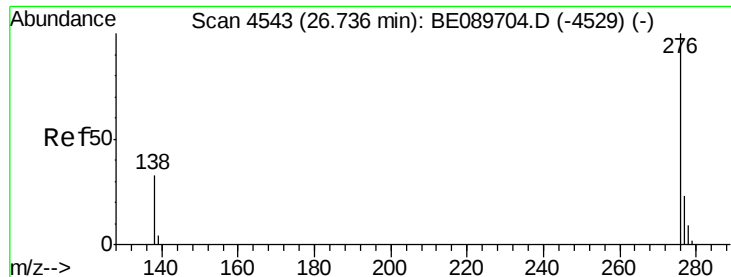
Tgt Ion: 244 Resp: 204041  
 Ion Ratio Lower Upper  
 244 100  
 212 8.1 6.7 10.1  
 122 19.1 15.7 23.5



#24  
 3,3'-Dichlorobenzidine  
 Concen: 0.43 ng  
 RT: 23.63 min Scan# 3929  
 Delta R.T. 0.01 min  
 Lab File: BE089714.D  
 Acq: 27 Feb 2015 6:35

Tgt Ion: 252 Resp: 22  
 Ion Ratio Lower Upper  
 252 100  
 254 90.9 49.4 74.2#  
 126 276.4 17.4 26.2#

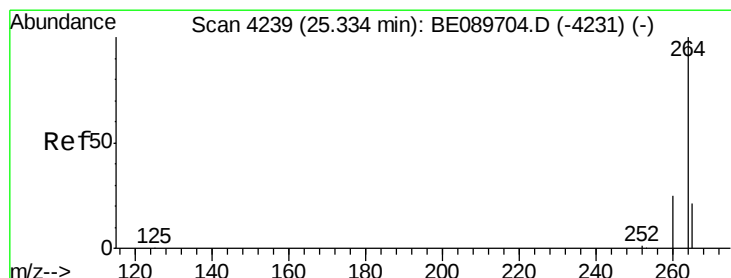
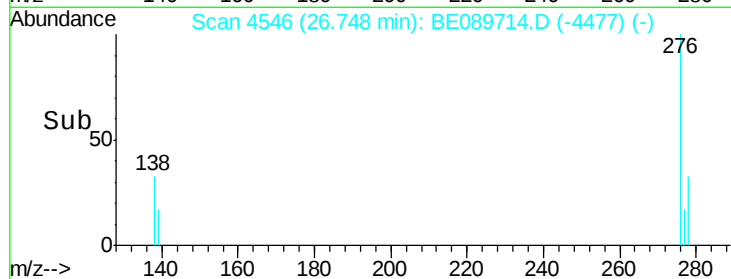
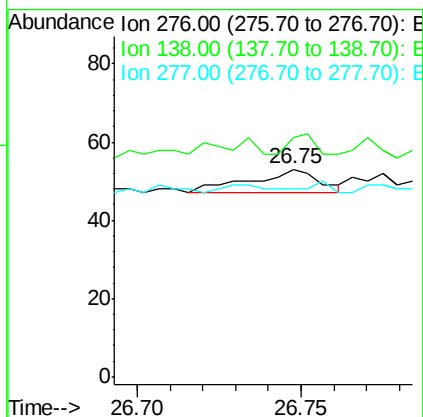
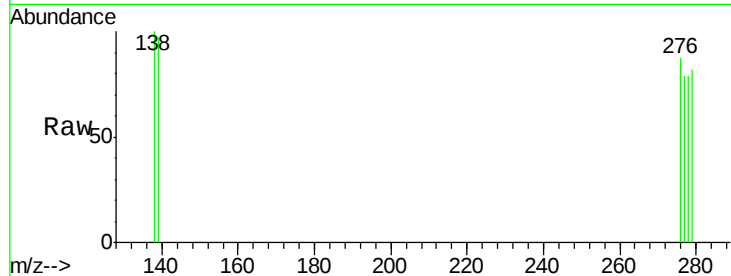




#26  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.38 ng  
 RT: 26.75 min Scan# 4546  
 Delta R.T. 0.01 min  
 Lab File: BE089714.D  
 Acq: 27 Feb 2015 6:35

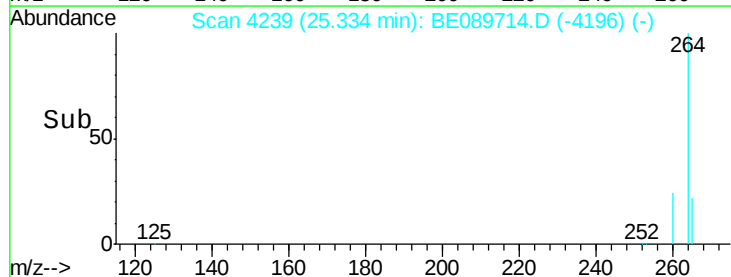
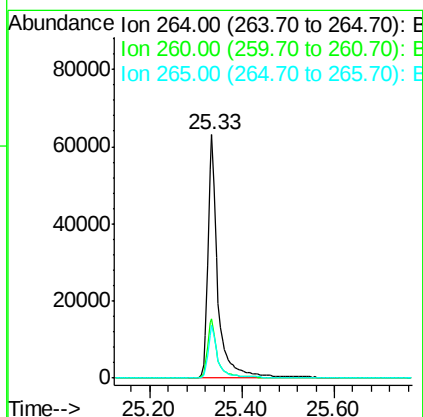
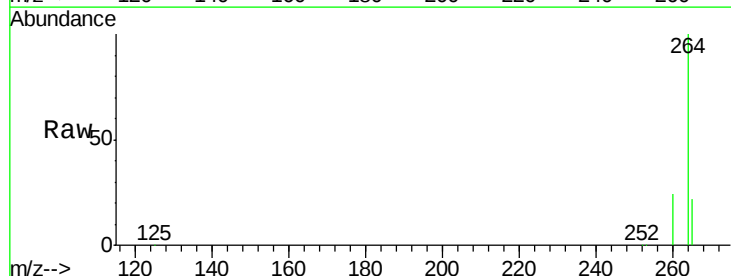
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB81904BL

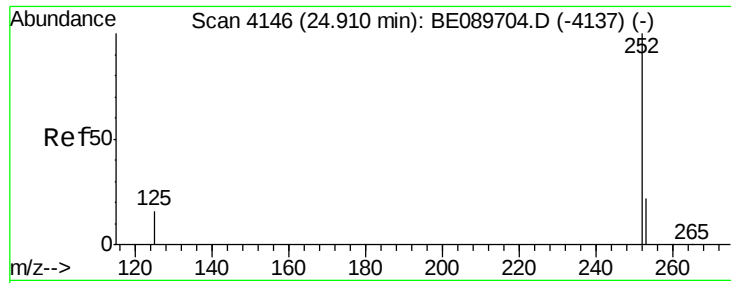
Tgt Ion: 276 Resp: 9  
 Ion Ratio Lower Upper  
 276 100  
 138 22.2 29.8 44.6#  
 277 11.1 19.8 29.6#



#27  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 25.33 min Scan# 4239  
 Delta R.T. 0.00 min  
 Lab File: BE089714.D  
 Acq: 27 Feb 2015 6:35

Tgt Ion: 264 Resp: 93340  
 Ion Ratio Lower Upper  
 264 100  
 260 24.4 20.2 30.2  
 265 21.7 16.9 25.3





#28

Benzo(b)fluoranthene

Concen: 0.41 ng

RT: 24.91 min Scan# 4145

Delta R.T. -0.00 min

Lab File: BE089714.D

Acq: 27 Feb 2015 6:35

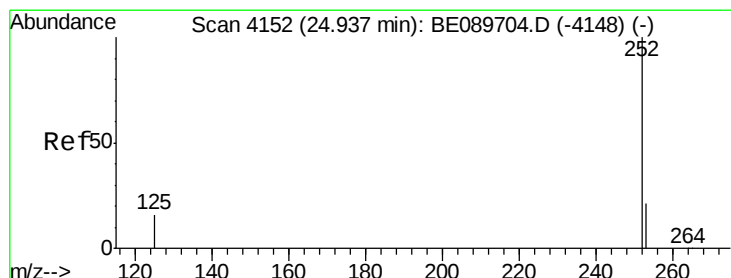
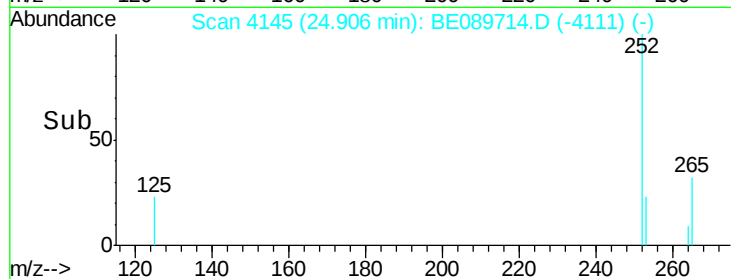
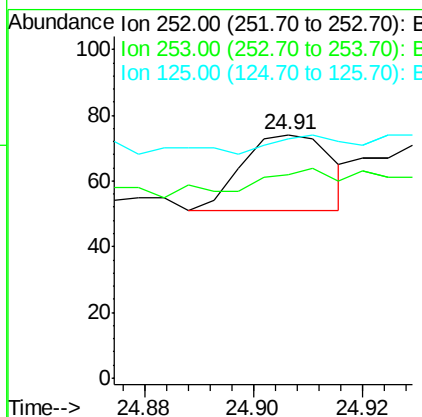
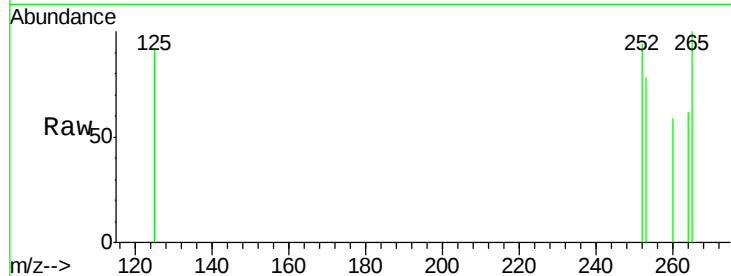
Instrument :

BNA\_E

ClientSampleId :

PB81904BL

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 26    |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 83.8  | 17.8  | 26.6# |
| 125      | 98.6  | 12.9  | 19.3# |



#29

Benzo(k)fluoranthene

Concen: 0.11 ng

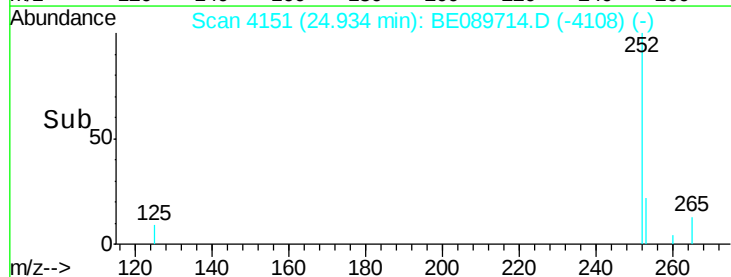
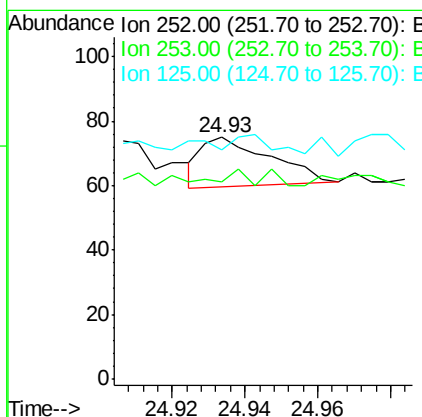
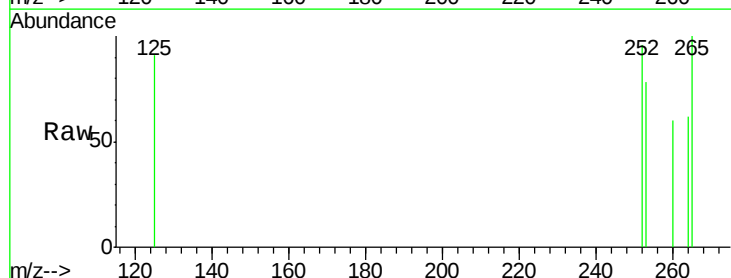
RT: 24.93 min Scan# 4151

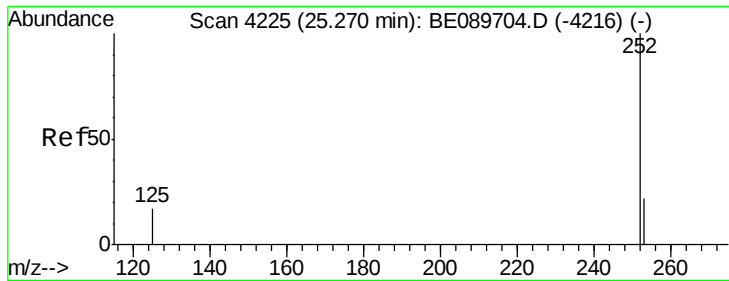
Delta R.T. -0.00 min

Lab File: BE089714.D

Acq: 27 Feb 2015 6:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 20    |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 81.3  | 17.3  | 25.9# |
| 125      | 94.7  | 12.9  | 19.3# |





#30

Benzo(a)pyrene

Concen: 0.37 ng

RT: 25.26 min Scan# 4223

Delta R.T. -0.01 min

Lab File: BE089714.D

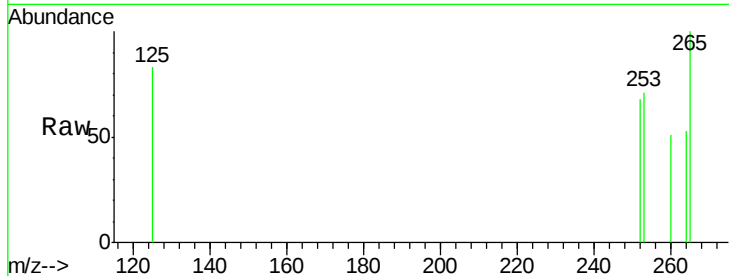
Acq: 27 Feb 2015 6:35

Instrument :

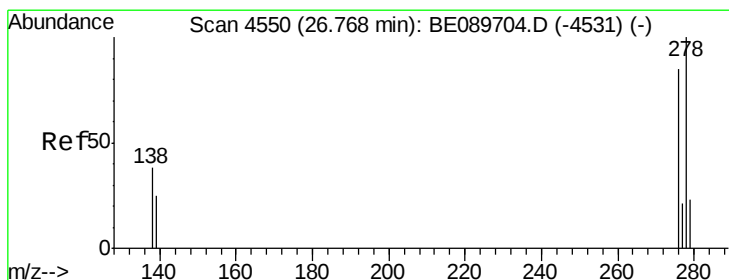
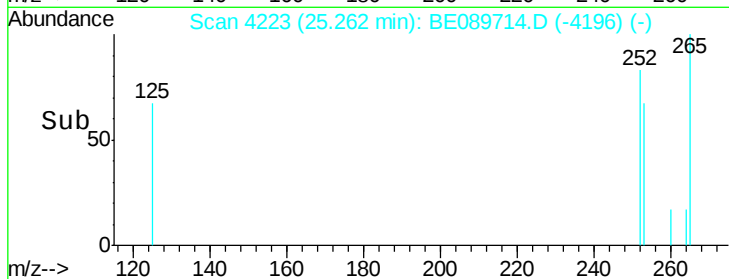
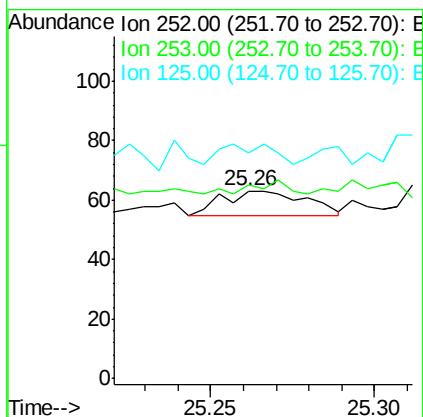
BNA\_E

ClientSampled :

PB81904BL



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 14    |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 103.2 | 17.9  | 26.9# |
| 125      | 120.6 | 14.0  | 21.0# |



#31

Dibenzo(a,h)anthracene

Concen: 0.40 ng

RT: 26.77 min Scan# 4550

Delta R.T. -0.00 min

Lab File: BE089714.D

Acq: 27 Feb 2015 6:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 278   | Resp: | 16    |
| Ion      | Ratio | Lower | Upper |
| 278      | 100   |       |       |
| 139      | 107.4 | 21.1  | 31.7# |
| 279      | 94.4  | 19.3  | 28.9# |

