

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE042616\  
 Data File : BE091713.D  
 Acq On : 26 Apr 2016 20:36  
 Operator : UM/SJ  
 Sample : PB900018BL  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB90018BL

Quant Time: Apr 27 00:49:53 2016  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE042616.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 26 16:09:46 2016  
 Response via : Initial Calibration

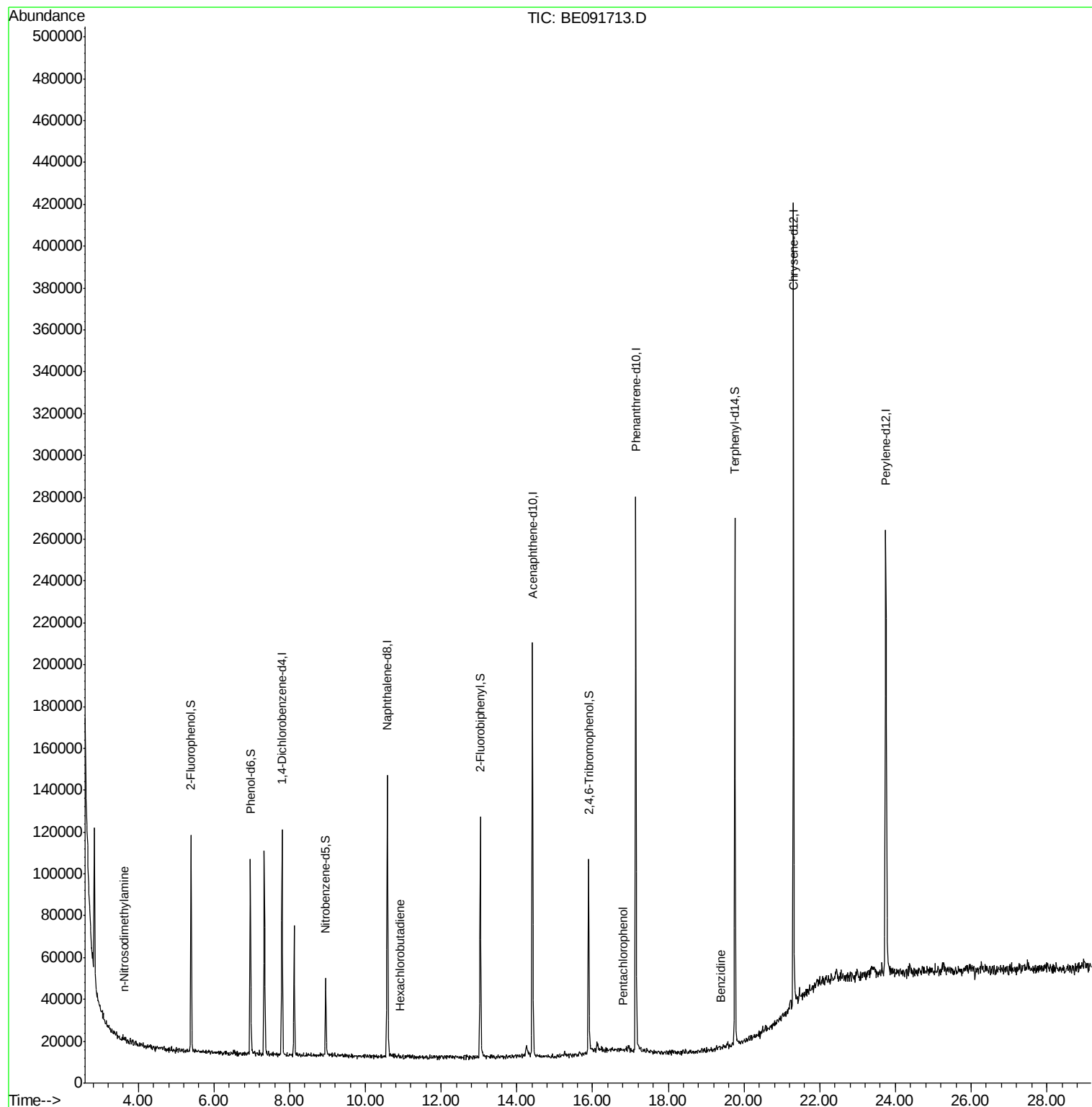
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.80  | 152  | 24949    | 5.00      | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.58 | 136  | 112195   | 5.00      | ng    | 0.00     |
| 13) Acenaphthene-d10        | 14.41 | 164  | 63118    | 5.00      | ng    | -0.01    |
| 19) Phenanthrene-d10        | 17.15 | 188  | 153811   | 5.00      | ng    | 0.00     |
| 26) Chrysene-d12            | 21.31 | 240  | 177413   | 5.00      | ng    | 0.00     |
| 35) Perylene-d12            | 23.74 | 264  | 167102   | 5.00      | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |           |       |          |
| 4) 2-Fluorophenol           | 5.39  | 112  | 40816    | 6.66      | ng    | 0.00     |
| 5) Phenol-d6                | 6.96  | 99   | 52510    | 6.46      | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.95  | 82   | 22592    | 3.12      | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.89 | 330  | 13006    | 5.58      | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 13.03 | 172  | 57725    | 3.23      | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.75 | 244  | 100668   | 3.64      | ng    | 0.00     |
| Target Compounds            |       |      |          |           |       |          |
| 2) 1,4-Dioxane              | 3.33  | 88   | 115      | Below Cal | #     | 1        |
| 3) n-Nitrosodimethylamine   | 3.63  | 42   | 461      | 0.10 ng   | #     | 1        |
| 11) Hexachlorobutadiene     | 10.91 | 225  | 80       | 0.02 ng   | #     | 74       |
| 22) Pentachlorophenol       | 16.80 | 266  | 51       | 0.11 ng   | #     | 38       |
| 27) Benzidine               | 19.39 | 184  | 60       | 0.17 ng   |       | 95       |

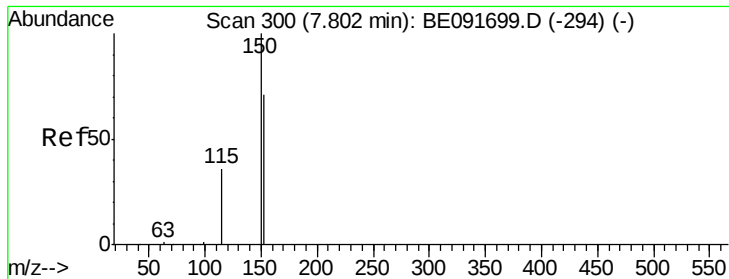
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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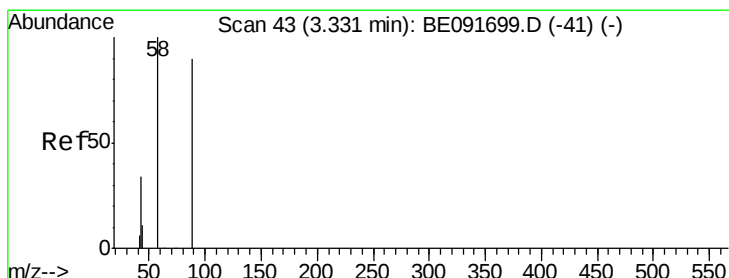
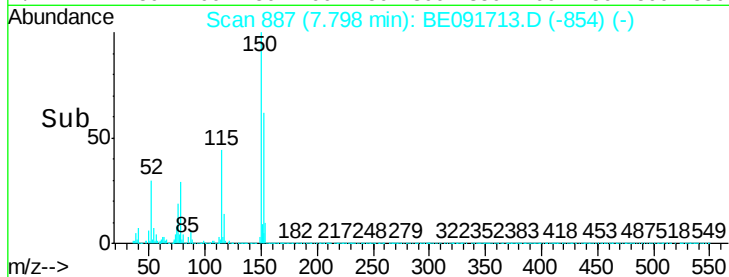
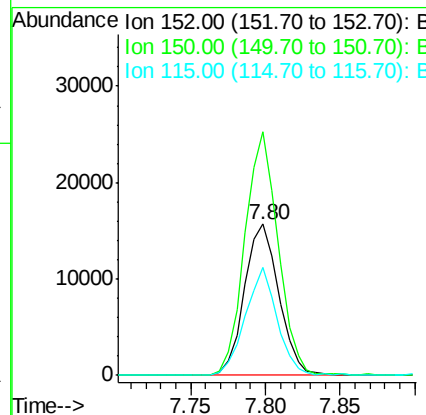
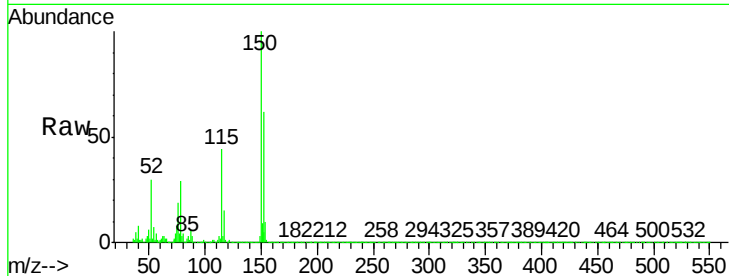


#1

1,4-Dichlorobenzene-d4  
Concen: 5.00 ng  
RT: 7.80 min Scan# 887  
Delta R.T. -0.00 min  
Lab File: BE091713.D  
Acq: 26 Apr 2016 20:36

Instrument :  
BNA\_E  
ClientSampleId :  
PB90018BL

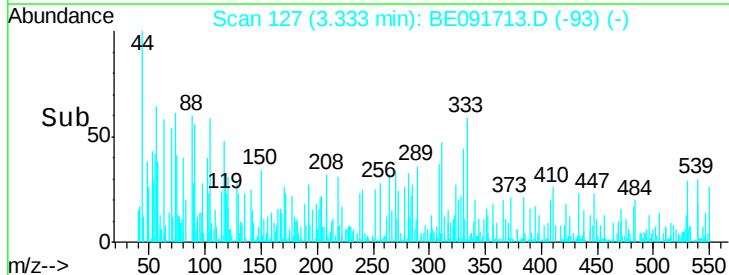
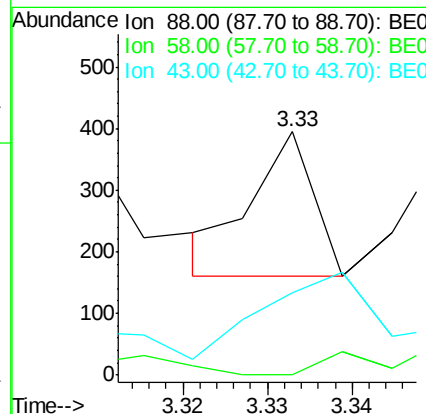
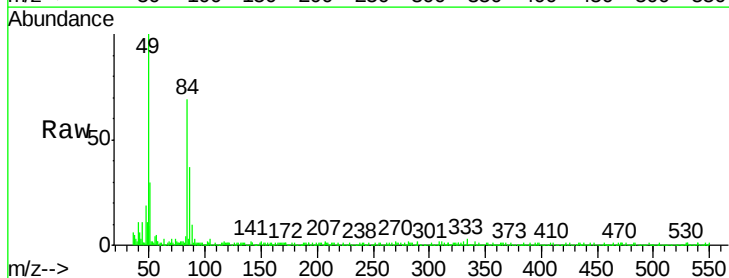
Tgt Ion:152 Resp: 24949  
Ion Ratio Lower Upper  
152 100  
150 161.0 122.6 183.8  
115 71.1 52.8 79.2

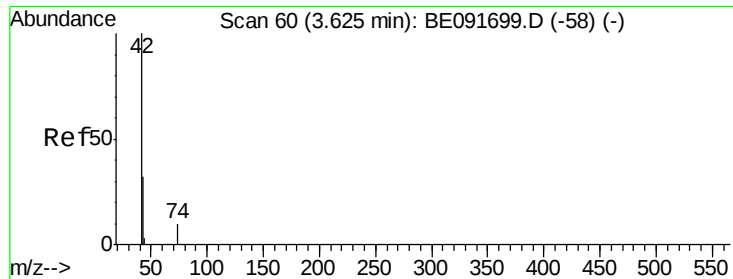


#2

1,4-Dioxane  
Concen: Below Cal  
RT: 3.33 min Scan# 127  
Delta R.T. 0.00 min  
Lab File: BE091713.D  
Acq: 26 Apr 2016 20:36

Tgt Ion: 88 Resp: 115  
Ion Ratio Lower Upper  
88 100  
58 0.0 65.8 98.6#  
43 107.8 25.3 37.9#





#3

n-Nitrosodimethylamine

Concen: 0.10 ng

RT: 3.63 min Scan# 178

Delta R.T. 0.01 min

Lab File: BE091713.D

Acq: 26 Apr 2016 20:36

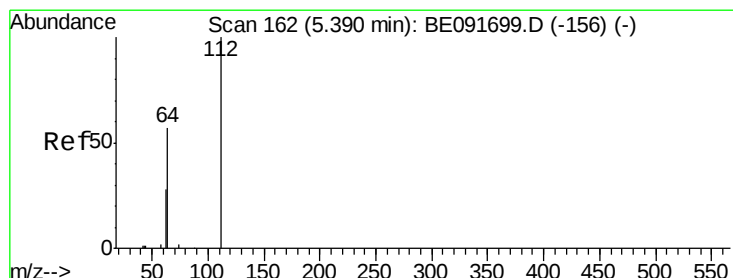
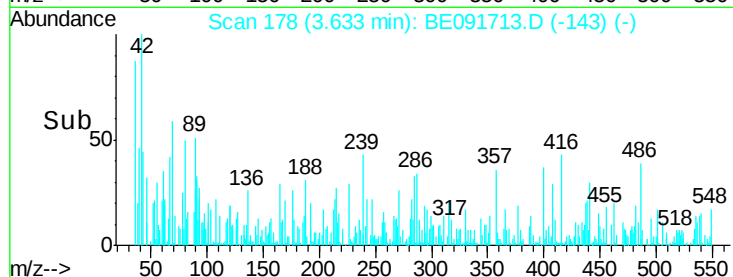
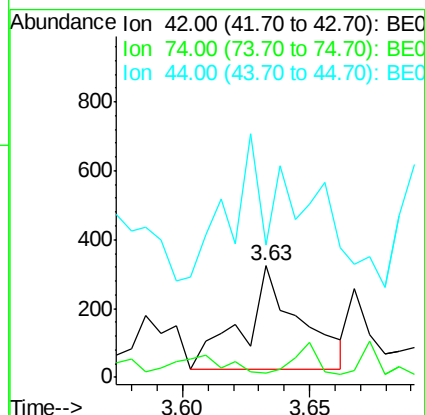
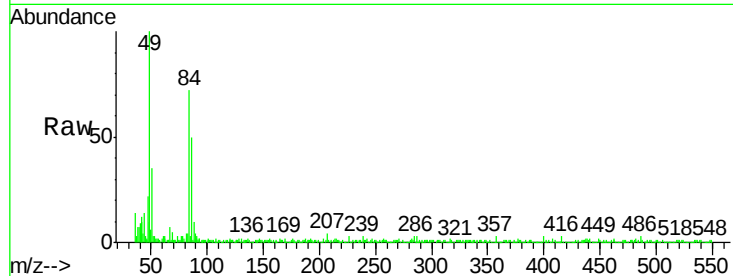
Instrument :

BNA\_E

ClientSampleId :

PB90018BL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 42    | Resp: | 461    |
| Ion Ratio | Lower | Upper |        |
| 42        | 100   |       |        |
| 74        | 0.0   | 87.9  | 131.9# |
| 44        | 77.4  | 6.6   | 9.8#   |



#4

2-Fluorophenol

Concen: 6.66 ng

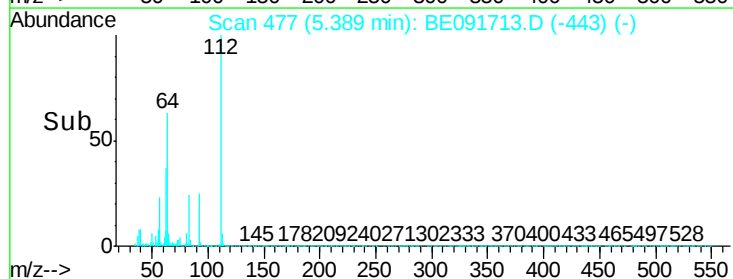
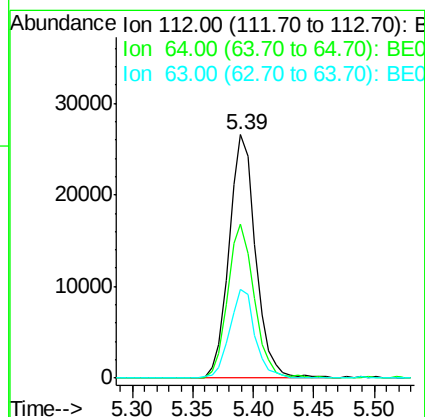
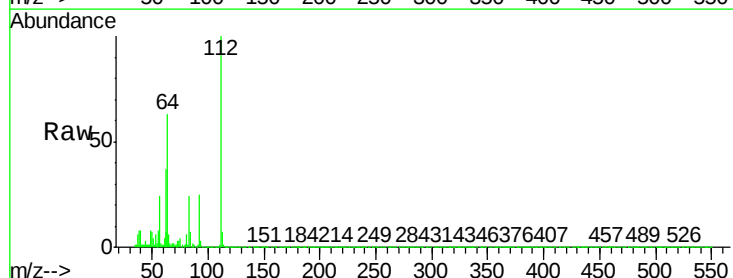
RT: 5.39 min Scan# 477

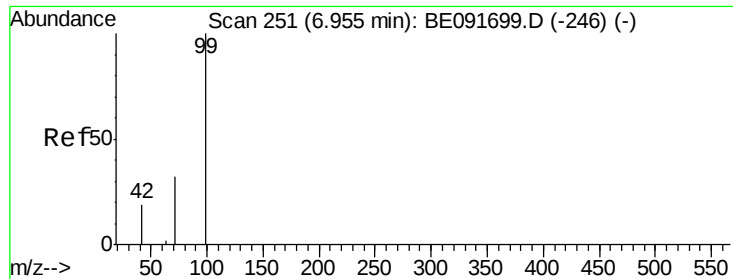
Delta R.T. -0.00 min

Lab File: BE091713.D

Acq: 26 Apr 2016 20:36

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 112   | Resp: | 40816 |
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 64        | 63.1  | 30.9  | 46.3# |
| 63        | 35.3  | 16.7  | 25.1# |





#5

Phenol-d6

Concen: 6.46 ng

RT: 6.96 min Scan# 744

Delta R.T. 0.00 min

Lab File: BE091713.D

Acq: 26 Apr 2016 20:36

Instrument :

BNA\_E

ClientSampleId :

PB90018BL

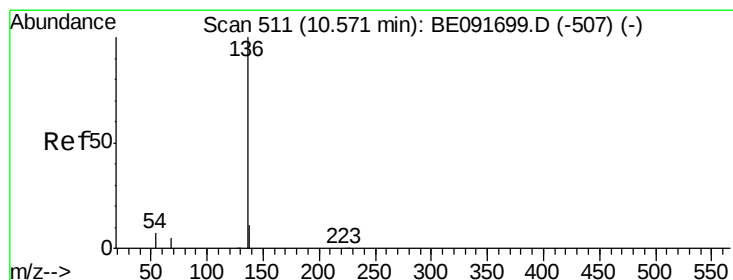
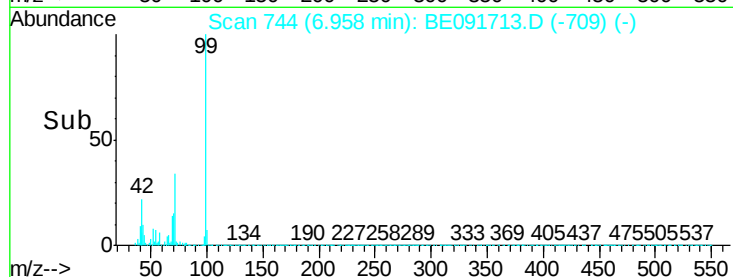
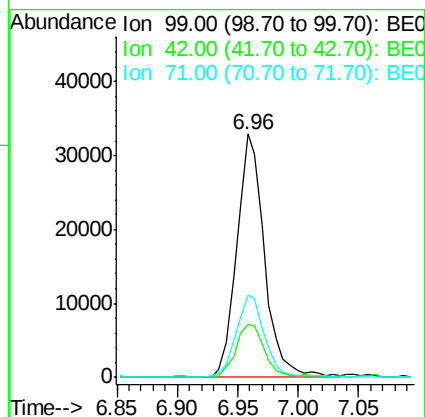
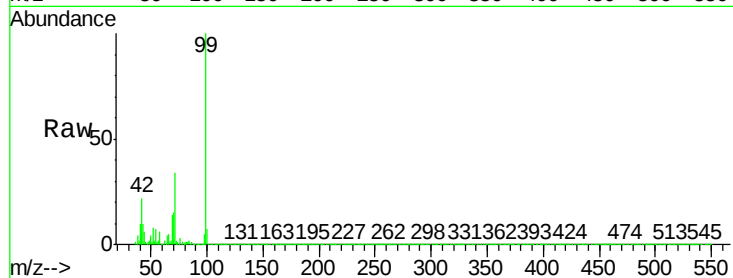
Tgt Ion: 99 Resp: 52510

Ion Ratio Lower Upper

99 100

42 22.3 16.2 24.2

71 35.3 29.0 43.4



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.58 min Scan# 1360

Delta R.T. 0.01 min

Lab File: BE091713.D

Acq: 26 Apr 2016 20:36

Tgt Ion: 136 Resp: 112195

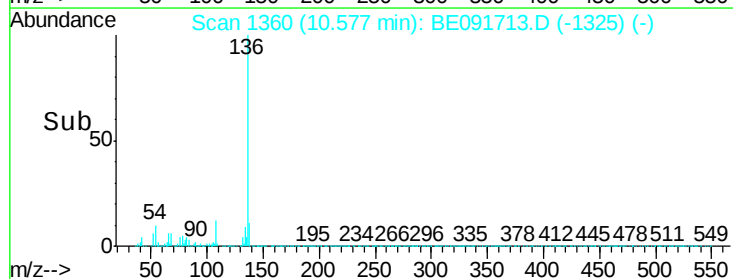
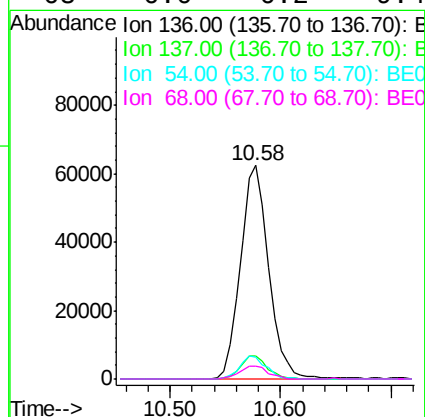
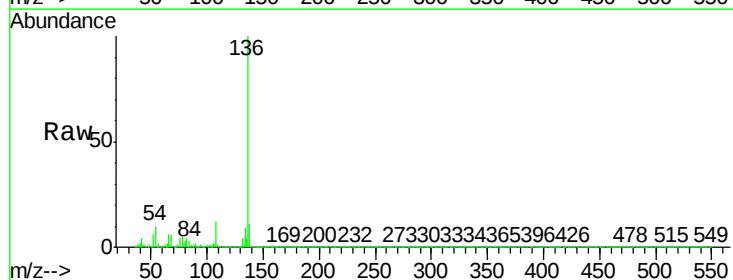
Ion Ratio Lower Upper

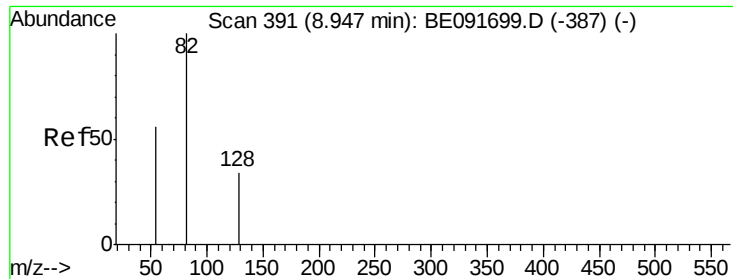
136 100

137 10.6 8.9 13.3

54 10.2 8.2 12.4

68 6.0 6.2 9.4#





#8

Nitrobenzene-d5

Concen: 3.12 ng

RT: 8.95 min Scan# 1083

Delta R.T. 0.00 min

Lab File: BE091713.D

Acq: 26 Apr 2016 20:36

Instrument :

BNA\_E

ClientSampleId :

PB90018BL

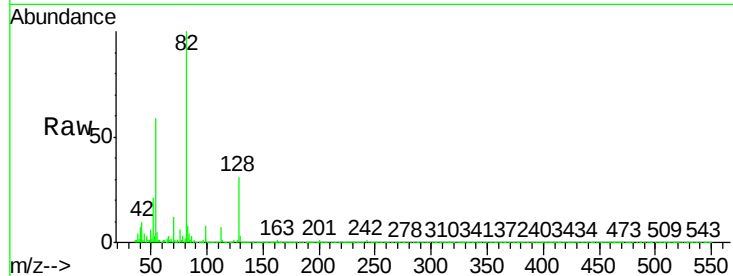
Tgt Ion: 82 Resp: 22592

Ion Ratio Lower Upper

82 100

128 31.3 25.4 38.0

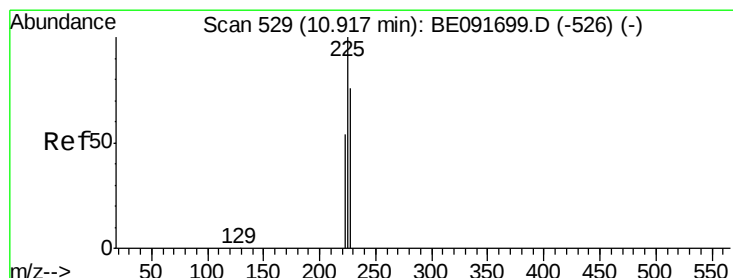
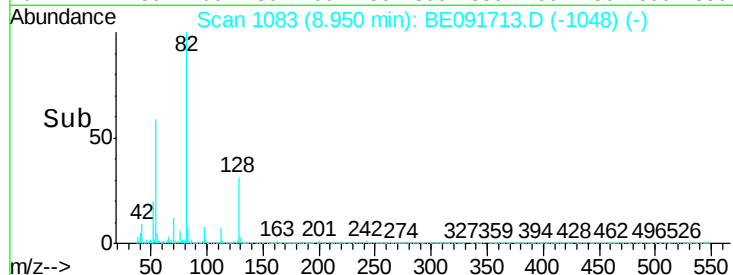
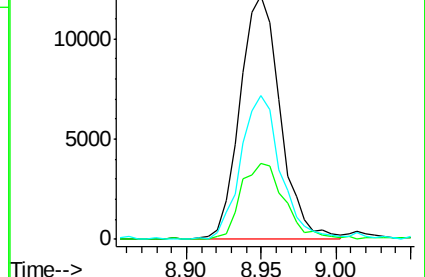
54 59.2 48.4 72.6



Abundance Ion 82.00 (81.70 to 82.70): BE091713.D (-1048) (-)

Ion 128.00 (127.70 to 128.70): BE091713.D (-1048) (-)

Ion 54.00 (53.70 to 54.70): BE091713.D (-1048) (-)



#11

Hexachlorobutadiene

Concen: 0.02 ng

RT: 10.91 min Scan# 1416

Delta R.T. -0.01 min

Lab File: BE091713.D

Acq: 26 Apr 2016 20:36

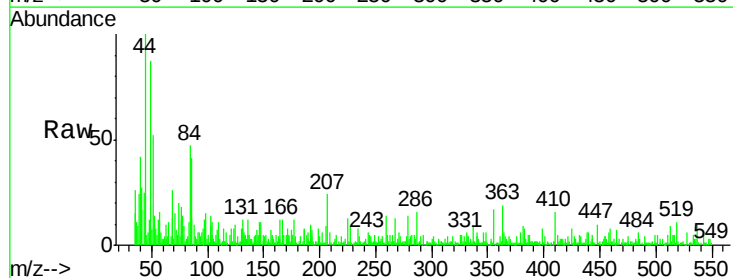
Tgt Ion: 225 Resp: 80

Ion Ratio Lower Upper

225 100

223 25.0 49.0 73.6#

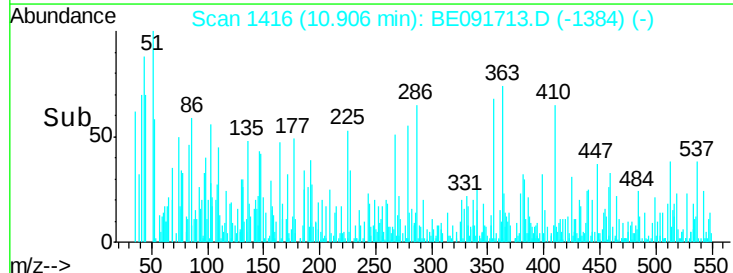
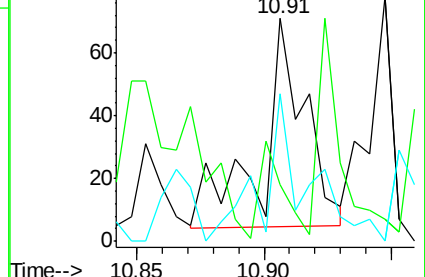
227 67.5 50.3 75.5

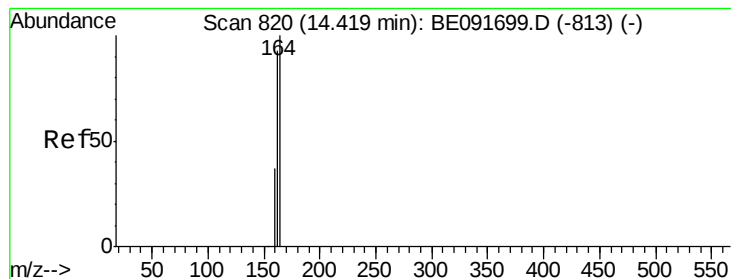


Abundance Ion 225.00 (224.70 to 225.70): BE091713.D (-1384) (-)

Ion 223.00 (222.70 to 223.70): BE091713.D (-1384) (-)

Ion 227.00 (226.70 to 227.70): BE091713.D (-1384) (-)





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.41 min Scan# 2012

Delta R.T. -0.01 min

Lab File: BE091713.D

Acq: 26 Apr 2016 20:36

Instrument :

BNA\_E

ClientSampleId :

PB90018BL

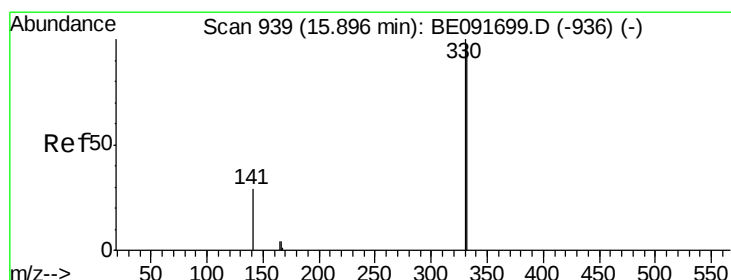
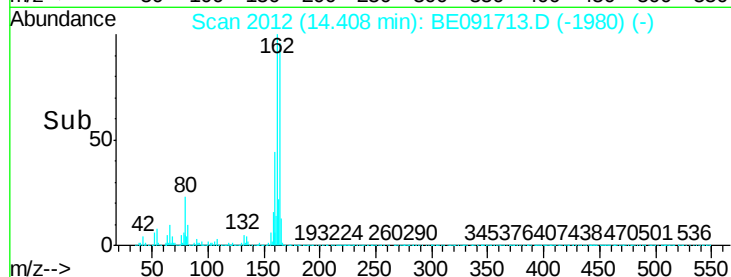
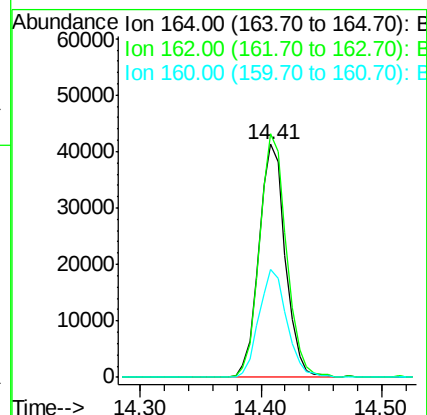
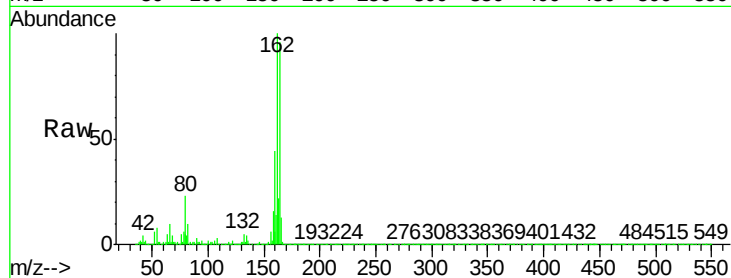
Tgt Ion:164 Resp: 63118

Ion Ratio Lower Upper

164 100

162 104.4 85.3 127.9

160 46.0 46.2 69.2#



#14

2,4,6-Tribromophenol

Concen: 5.58 ng

RT: 15.89 min Scan# 2265

Delta R.T. -0.00 min

Lab File: BE091713.D

Acq: 26 Apr 2016 20:36

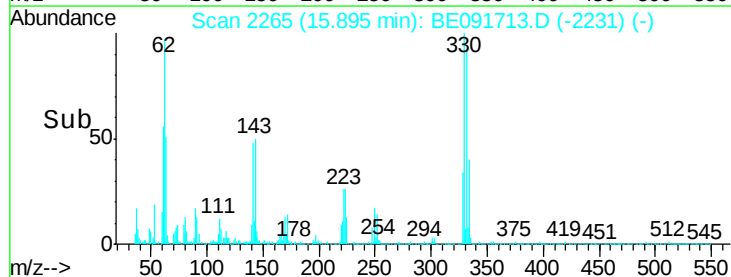
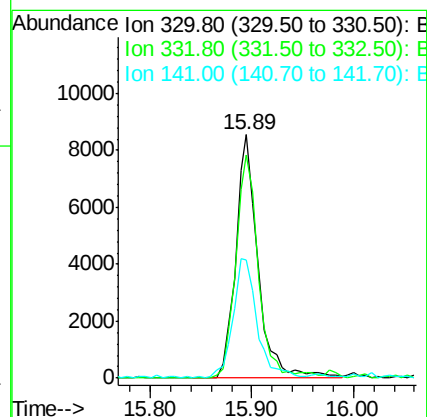
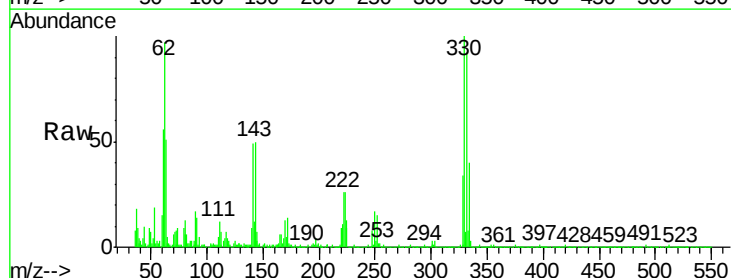
Tgt Ion:330 Resp: 13006

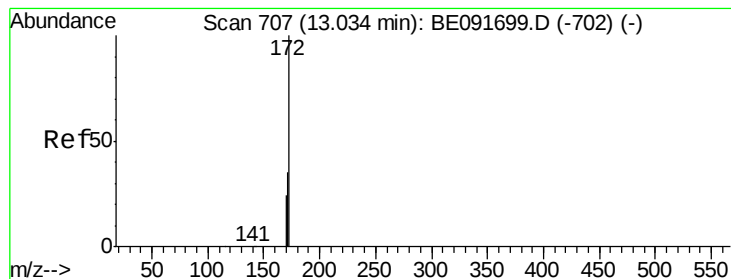
Ion Ratio Lower Upper

330 100

332 91.2 79.1 118.7

141 53.5 125.4 188.0#





#15

2-Fluorobiphenyl

Concen: 3.23 ng

RT: 13.03 min Scan# 1778

Delta R.T. -0.00 min

Lab File: BE091713.D

Acq: 26 Apr 2016 20:36

Instrument :

BNA\_E

ClientSampleId :

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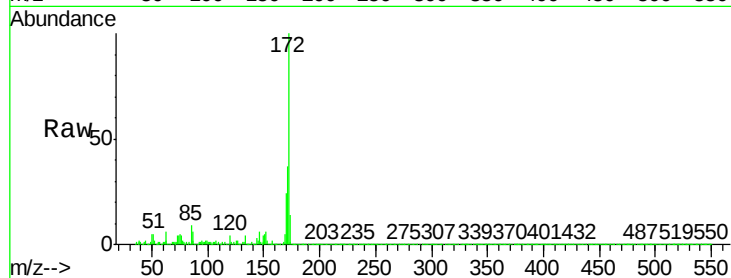
Tgt Ion:172 Resp: 57725

Ion Ratio Lower Upper

172 100

171 36.9 28.8 43.2

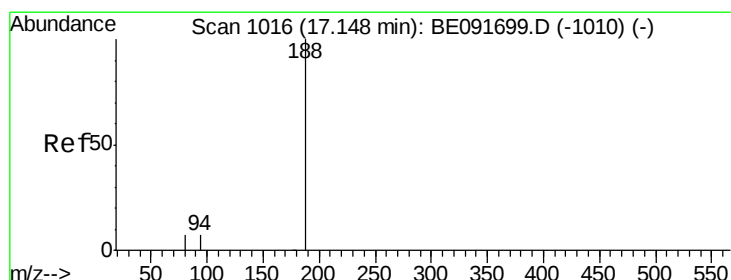
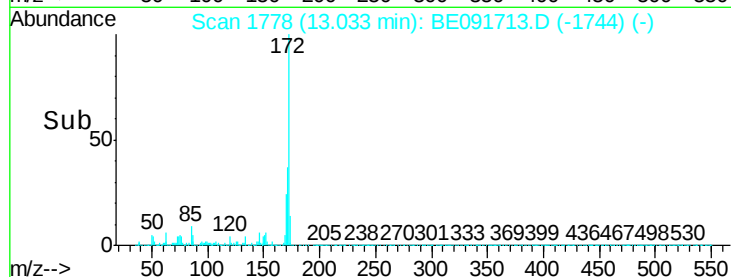
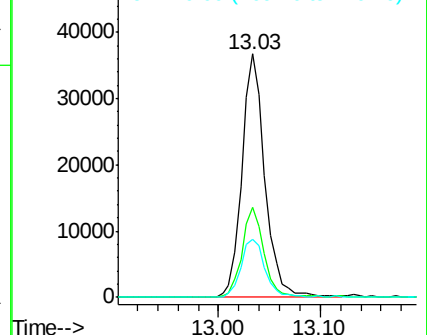
170 23.7 19.3 28.9



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



#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.15 min Scan# 2478

Delta R.T. -0.00 min

Lab File: BE091713.D

Acq: 26 Apr 2016 20:36

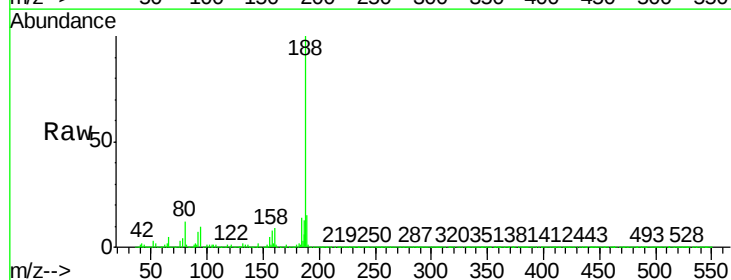
Tgt Ion:188 Resp: 153811

Ion Ratio Lower Upper

188 100

94 10.1 8.7 13.1

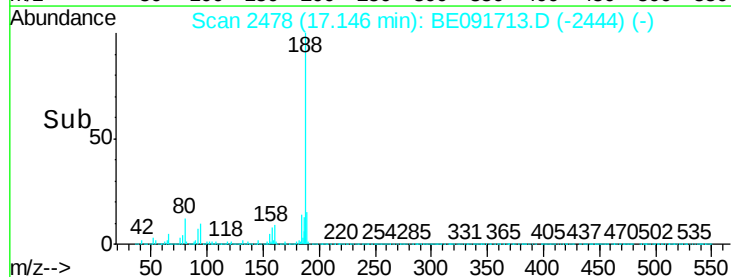
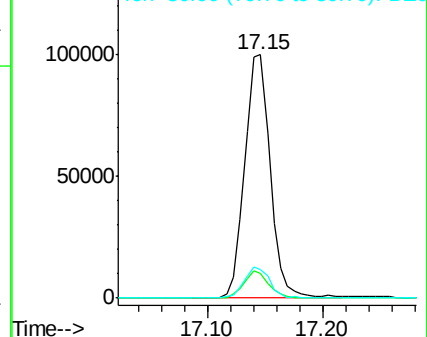
80 11.8 9.4 14.0

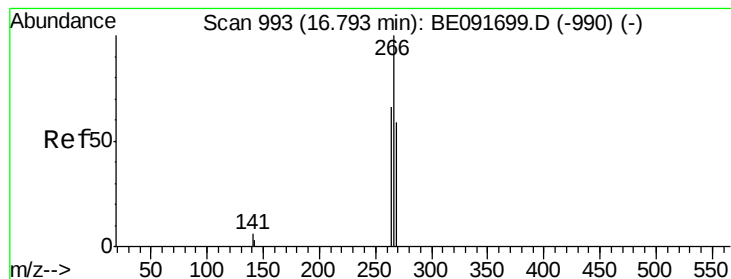


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#22

Pentachlorophenol

Concen: 0.11 ng

RT: 16.80 min Scan# 2419

Delta R.T. 0.01 min

Lab File: BE091713.D

Acq: 26 Apr 2016 20:36

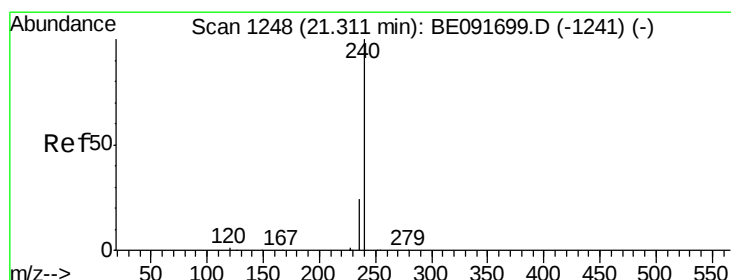
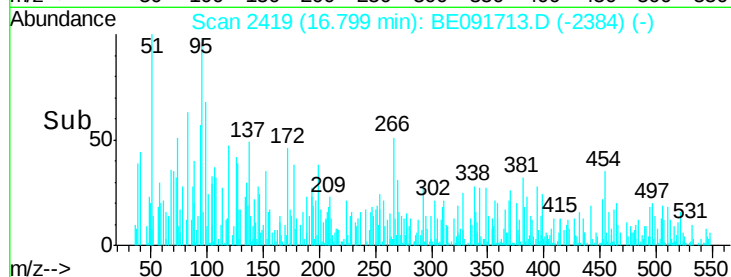
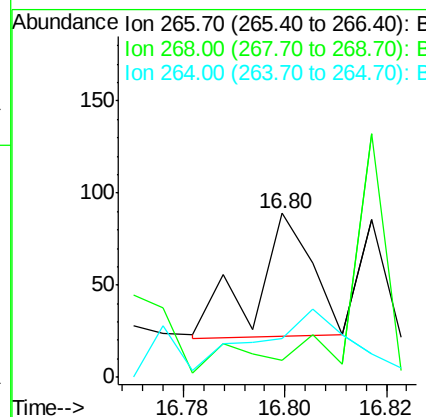
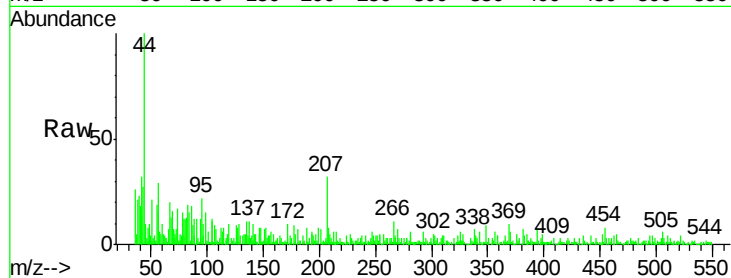
Instrument :

BNA\_E

ClientSampleId :

PB90018BL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 266   | Resp: | 51    |
| Ion Ratio | Lower | Upper |       |
| 266       | 100   |       |       |
| 268       | 10.1  | 58.2  | 87.2# |
| 264       | 30.3  | 56.2  | 84.4# |



#26

Chrysene-d12

Concen: 5.00 ng

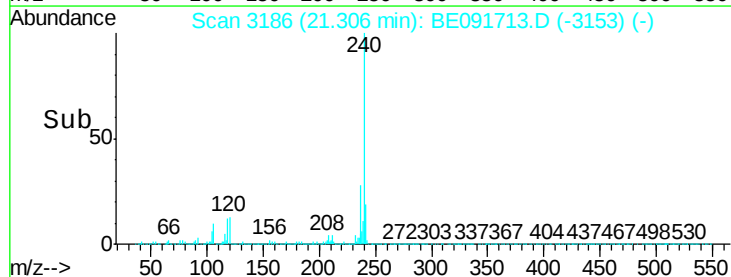
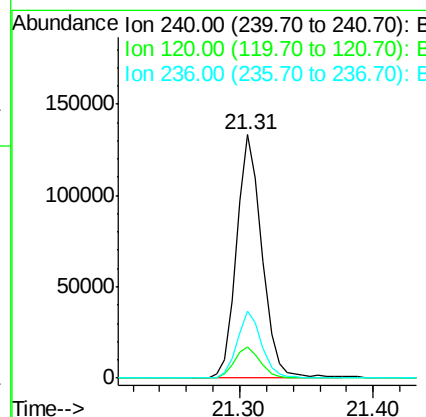
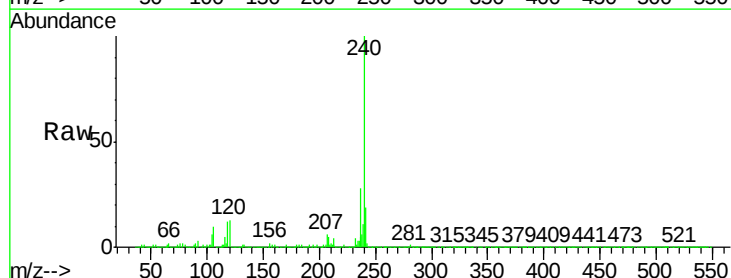
RT: 21.31 min Scan# 3186

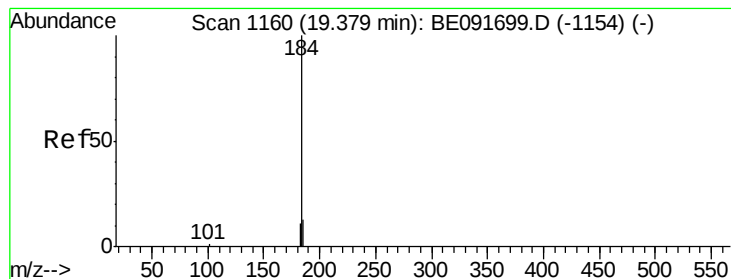
Delta R.T. -0.01 min

Lab File: BE091713.D

Acq: 26 Apr 2016 20:36

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 177413 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 13.0  | 11.0  | 16.4   |
| 236       | 27.7  | 21.7  | 32.5   |





#27

Benzidine

Concen: 0.17 ng

RT: 19.39 min Scan# 2860

Delta R.T. 0.01 min

Lab File: BE091713.D

Acq: 26 Apr 2016 20:36

Instrument :

BNA\_E

ClientSampleId :

PB90018BL

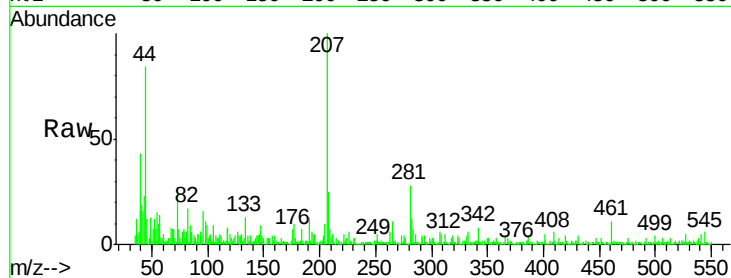
Tgt Ion:184 Resp: 60

Ion Ratio Lower Upper

184 100

185 29.5 22.3 33.5

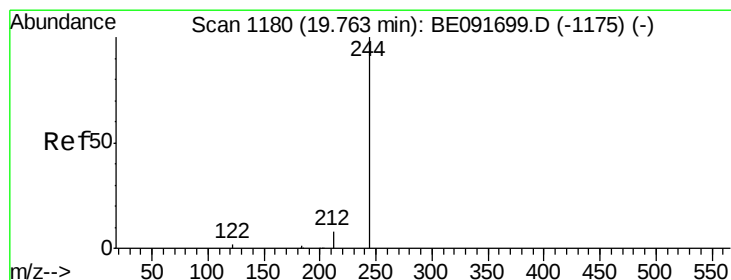
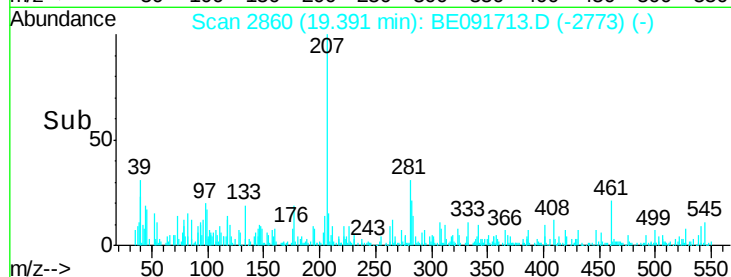
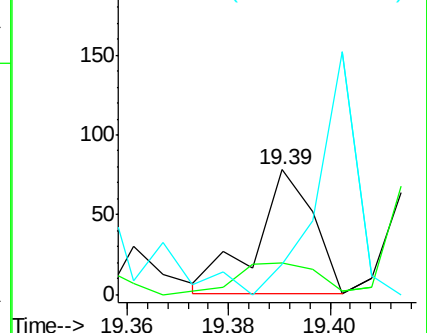
183 24.4 16.4 24.6



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



#29

Terphenyl-d14

Concen: 3.64 ng

RT: 19.75 min Scan# 2922

Delta R.T. -0.01 min

Lab File: BE091713.D

Acq: 26 Apr 2016 20:36

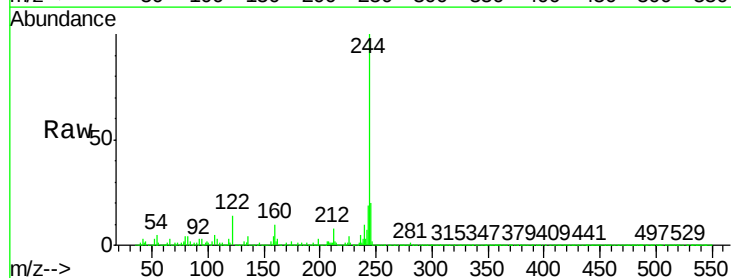
Tgt Ion:244 Resp: 100668

Ion Ratio Lower Upper

244 100

212 8.2 6.9 10.3

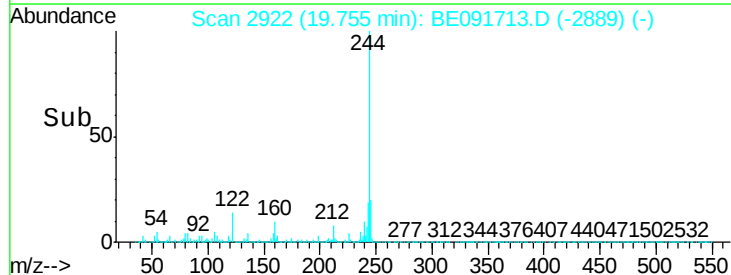
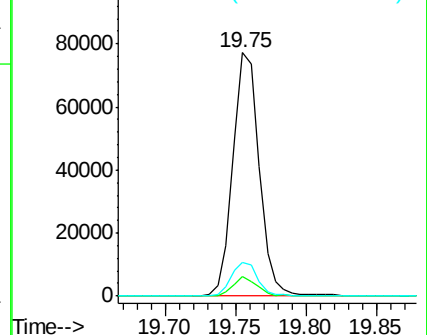
122 13.6 11.0 16.4

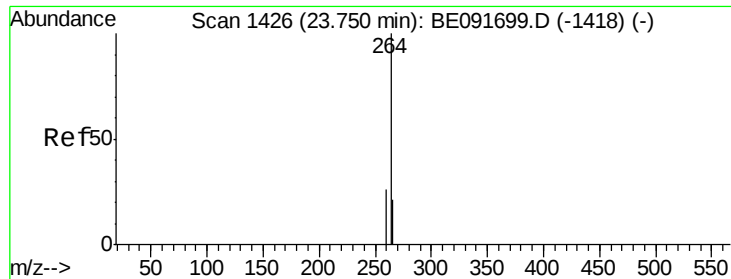


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#35

Perylene-d12

Concen: 5.00 ng

RT: 23.74 min Scan# 3601

Delta R.T. -0.01 min

Lab File: BE091713.D

Acq: 26 Apr 2016 20:36

Instrument :

BNA\_E

ClientSampleId :

PB90018BL

Tgt Ion:264 Resp: 167102

Ion Ratio Lower Upper

264 100

260 23.3 20.0 30.0

265 20.6 17.5 26.3

