

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE010617\  
 Data File : BE092634.D  
 Acq On : 6 Jan 2017 16:16  
 Operator : UM/SJ  
 Sample : I1032-02  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 OUTFALL001-170104

Quant Time: Jan 06 23:13:41 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE121916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 19 16:16:32 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.14  | 152  | 7531     | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.93 | 136  | 33486    | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10      | 14.80 | 164  | 22474    | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10      | 17.56 | 188  | 49810    | 5.00 | ng    | 0.00     |
| 24) Chrysene-d12          | 21.72 | 240  | 73271    | 5.00 | ng    | 0.00     |
| 31) Perylene-d12          | 24.08 | 264  | 61775    | 5.00 | ng    | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.65  | 112  | 5426     | 3.80 | ng    | -0.03    |
| 5) Phenol-d6                | 7.34  | 99   | 3580     | 1.76 | ng    | -0.05    |
| 8) Nitrobenzene-d5          | 9.34  | 82   | 8832     | 3.85 | ng    | -0.02    |
| 13) 2,4,6-Tribromophenol    | 16.30 | 330  | 4689     | 7.24 | ng    | -0.01    |
| 14) 2-Fluorobiphenyl        | 13.42 | 172  | 25225    | 4.69 | ng    | -0.01    |
| 26) Terphenyl-d14           | 20.16 | 244  | 43680    | 4.86 | ng    | -0.02    |

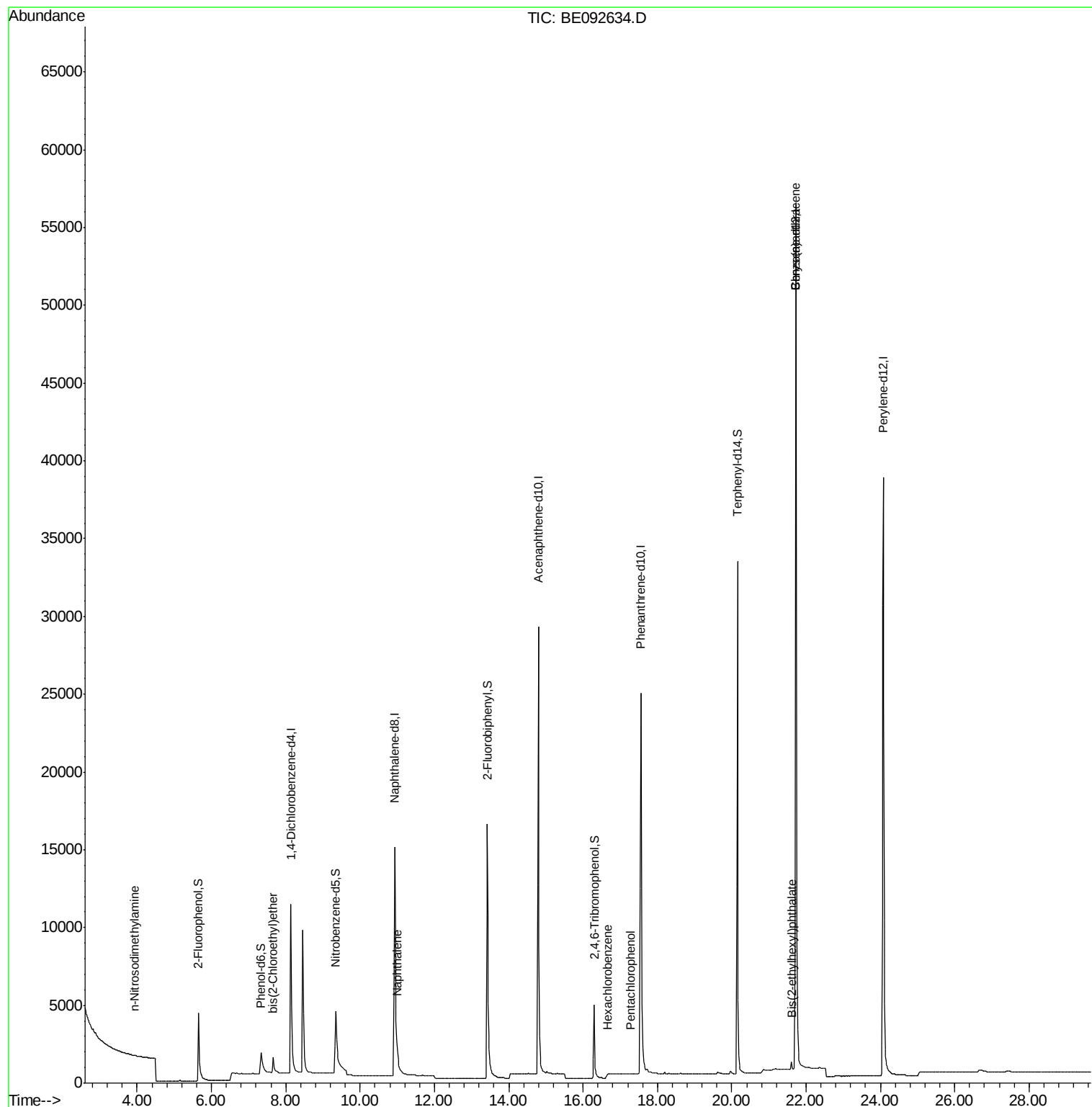
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 2) 1,4-Dioxane                 | 3.62  | 88   | 3        | Below Cal | #     | 19     |
| 3) n-Nitrosodimethylamine      | 3.93  | 42   | 1        | 0.20 ng   | #     | 1      |
| 6) bis(2-Chloroethyl)ether     | 7.66  | 93   | 23       | 0.12 ng   | #     | 1      |
| 9) Naphthalene                 | 10.99 | 128  | 450      | 0.07 ng   | #     | 43     |
| 19) Hexachlorobenzene          | 16.66 | 284  | 344      | 0.16 ng   | #     | 39     |
| 20) Pentachlorophenol          | 17.28 | 266  | 19       | 0.04 ng   | #     | 74     |
| 27) Benzo(a)anthracene         | 21.72 | 228  | 1453     | 0.02 ng   | #     | 53     |
| 29) Bis(2-ethylhexyl)phthalate | 21.61 | 149  | 748      | 0.18 ng   | #     | 77     |

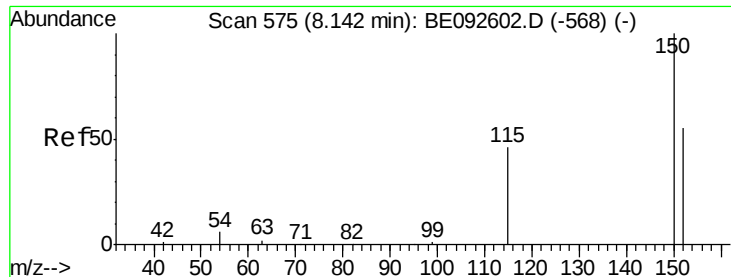
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.14 min Scan# 575

Delta R.T. 0.00 min

Lab File: BE092634.D

Acq: 6 Jan 2017 16:16

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-170104

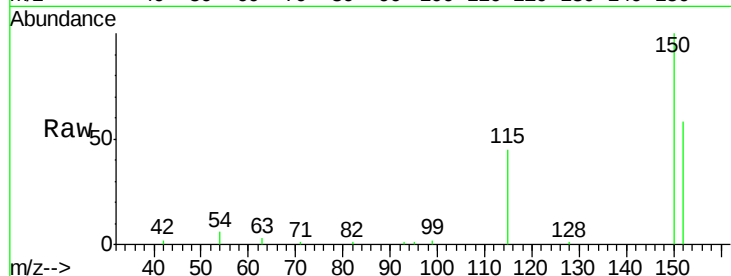
Tgt Ion:152 Resp: 7531

Ion Ratio Lower Upper

152 100

150 171.7 106.0 159.0#

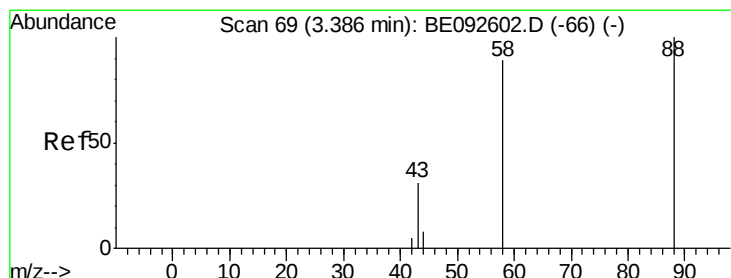
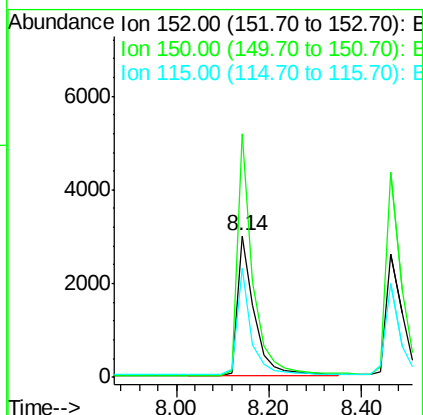
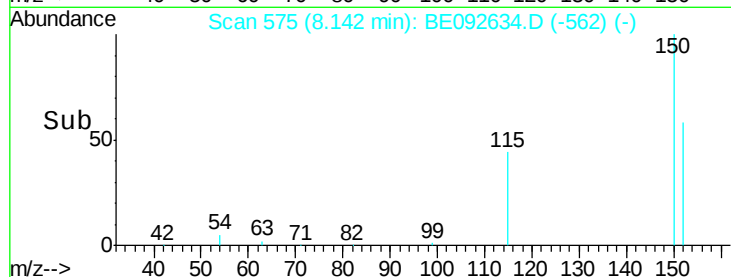
115 77.3 31.2 46.8#



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

1,4-Dioxane

Concen: Below Cal

RT: 3.62 min Scan# 89

Delta R.T. 0.23 min

Lab File: BE092634.D

Acq: 6 Jan 2017 16:16

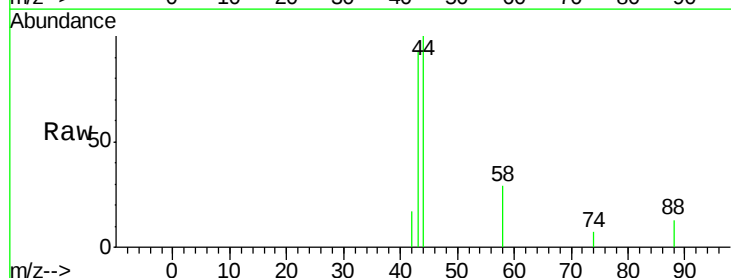
Tgt Ion: 88 Resp: 3

Ion Ratio Lower Upper

88 100

58 0.0 63.6 95.4#

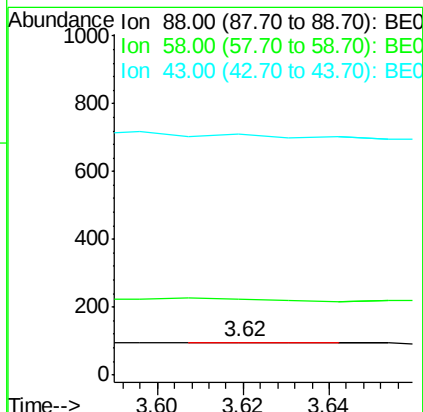
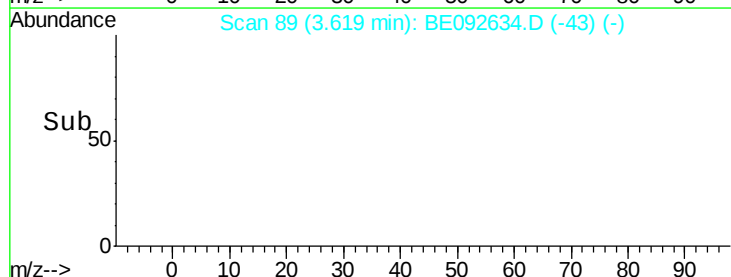
43 0.0 28.0 42.0#

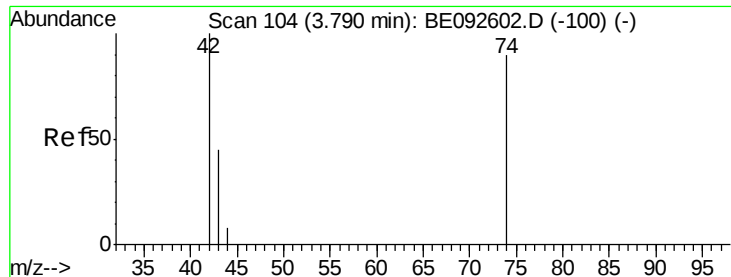


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.20 ng

RT: 3.93 min Scan# 116

Delta R.T. 0.14 min

Lab File: BE092634.D

Acq: 6 Jan 2017 16:16

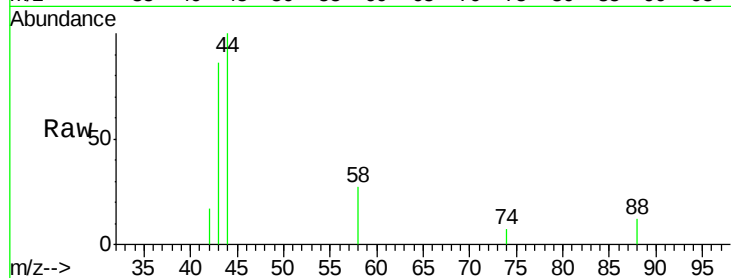
Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-170104

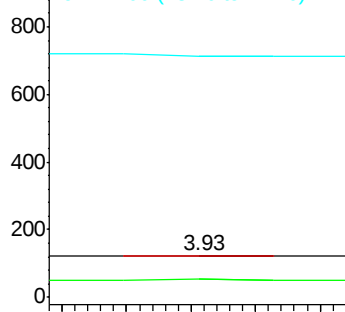
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 42    | Resp: | 1      |
| Ion      | Ratio | Lower | Upper  |
| 42       | 100   |       |        |
| 74       | 400.0 | 86.0  | 129.0# |
| 44       | 0.0   | 5.1   | 7.7#   |



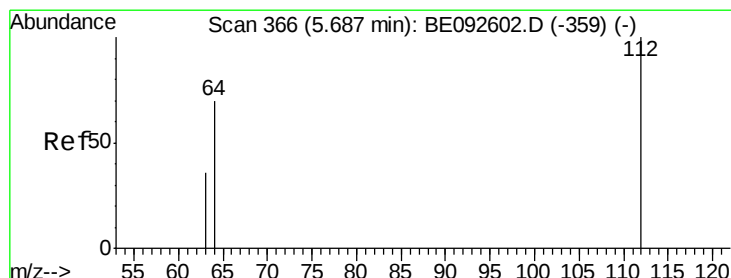
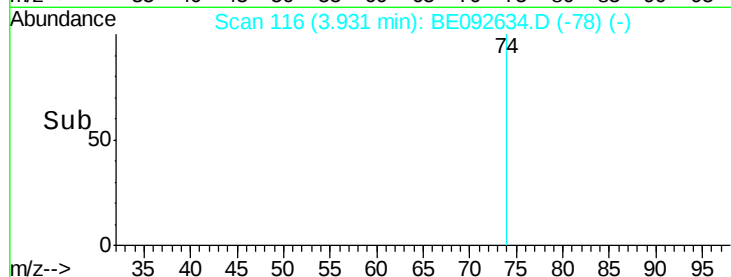
Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



Time-->



#4

2-Fluorophenol

Concen: 3.80 ng

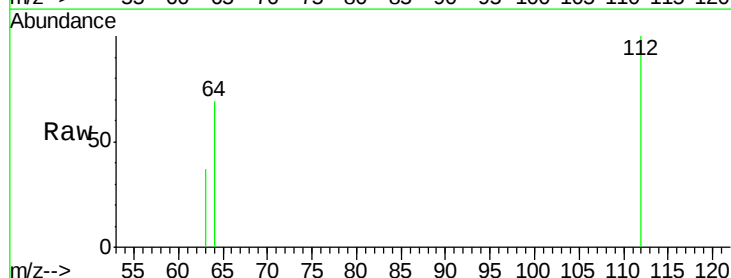
RT: 5.65 min Scan# 360

Delta R.T. -0.03 min

Lab File: BE092634.D

Acq: 6 Jan 2017 16:16

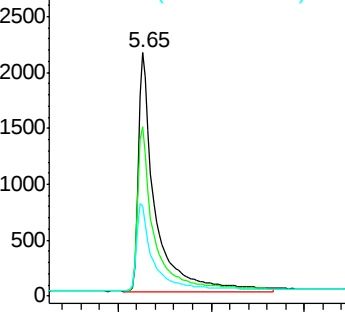
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 5426  |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 69.7  | 53.5  | 80.3  |
| 63       | 37.2  | 27.9  | 41.9  |



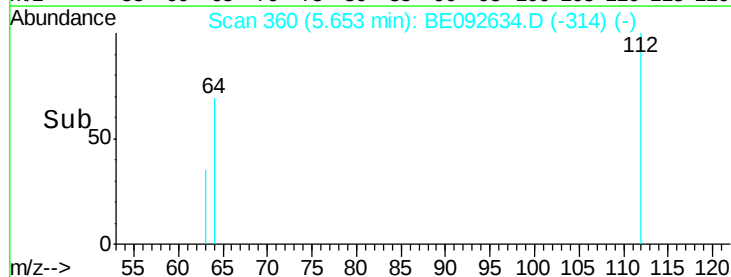
Abundance Ion 112.00 (111.70 to 112.70): E

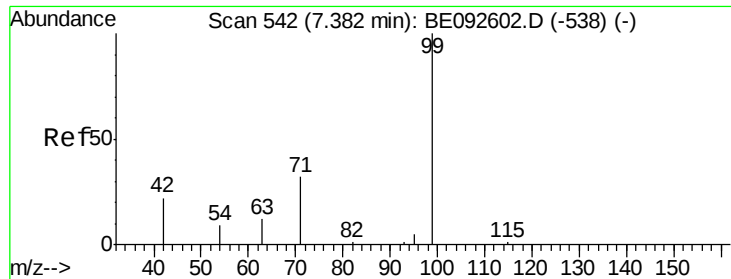
Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



Time-->





#5

Phenol-d6

Concen: 1.76 ng

RT: 7.34 min Scan# 540

Delta R.T. -0.05 min

Lab File: BE092634.D

Acq: 6 Jan 2017 16:16

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-170104

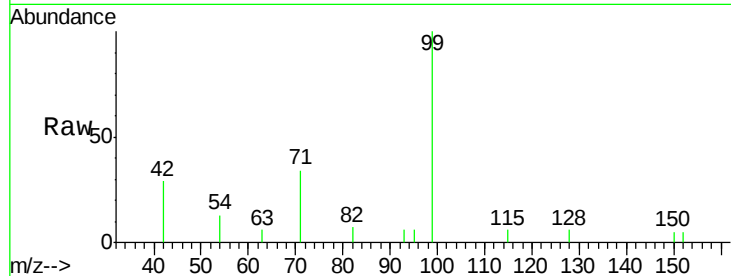
Tgt Ion: 99 Resp: 3580

Ion Ratio Lower Upper

99 100

42 0.0 16.0 24.0#

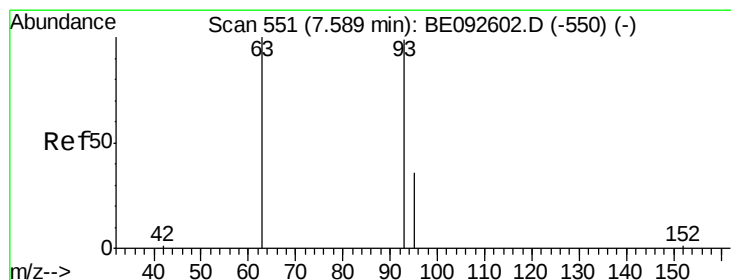
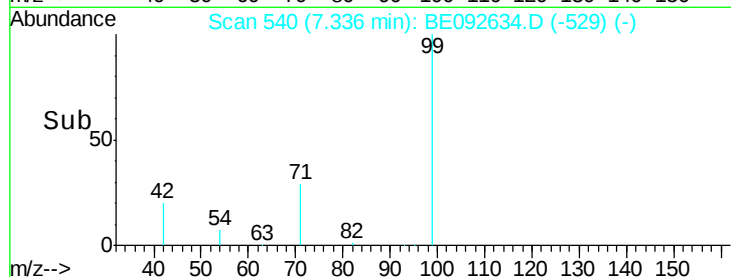
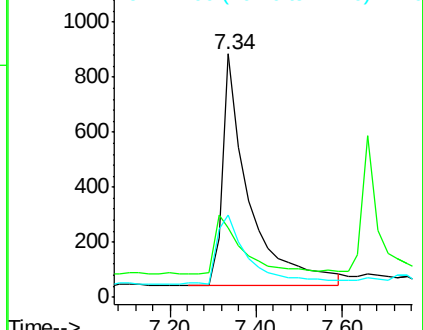
71 36.3 30.6 45.8



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

bis(2-Chloroethyl)ether

Concen: 0.12 ng

RT: 7.66 min Scan# 554

Delta R.T. 0.07 min

Lab File: BE092634.D

Acq: 6 Jan 2017 16:16

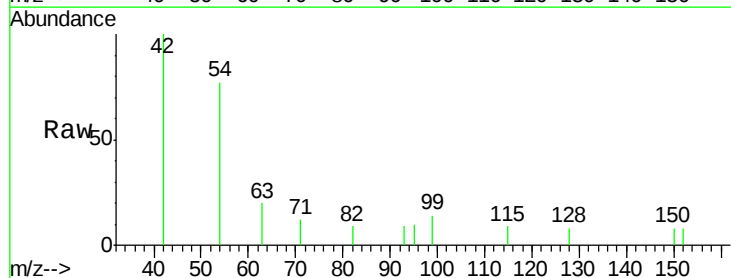
Tgt Ion: 93 Resp: 23

Ion Ratio Lower Upper

93 100

63 695.7 71.6 107.4#

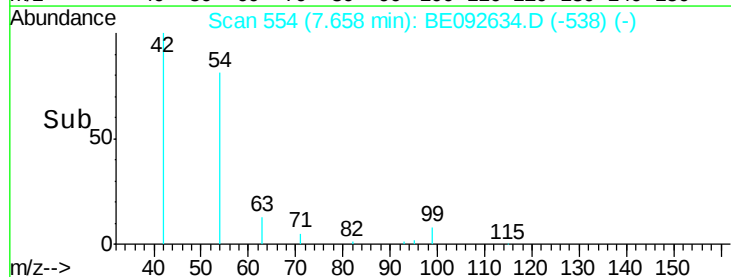
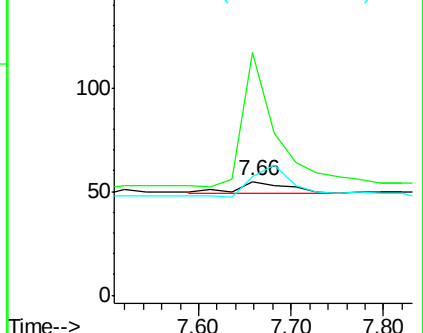
95 0.0 24.0 36.0#

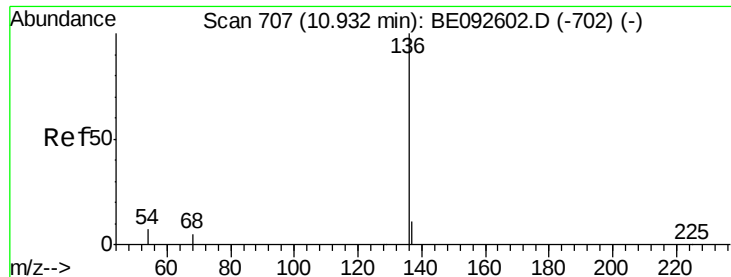


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: 10.93 min Scan# 707

Delta R.T. 0.00 min

Lab File: BE092634.D

Acq: 6 Jan 2017 16:16

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-170104

Tgt Ion:136 Resp: 33486

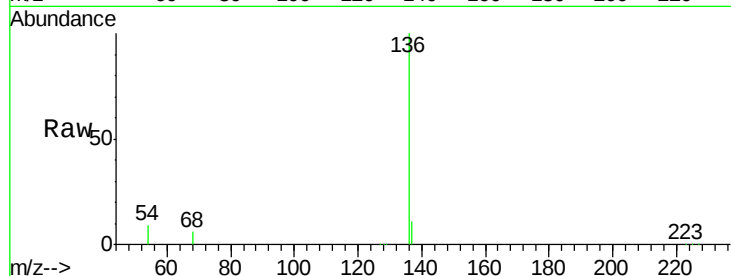
Ion Ratio Lower Upper

136 100

137 11.3 8.2 12.4

54 8.8 9.6 14.4#

68 6.2 6.7 10.1#

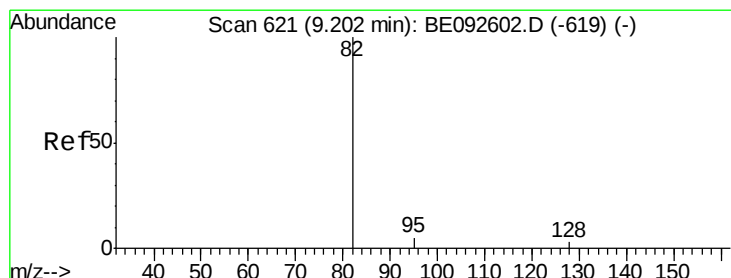
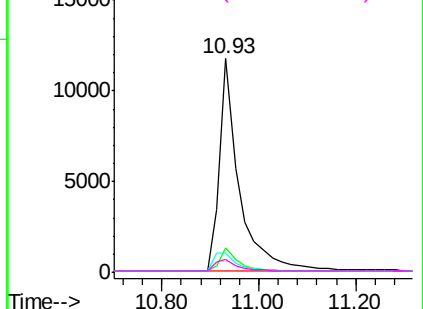
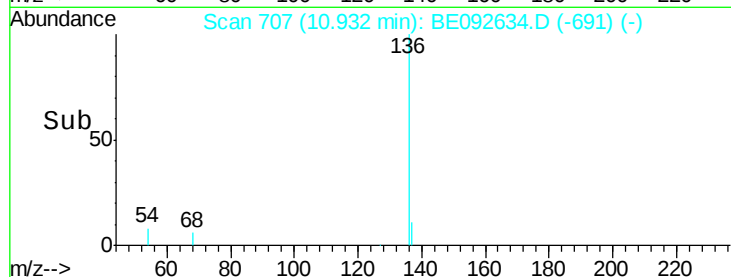


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 3.85 ng

RT: 9.34 min Scan# 627

Delta R.T. -0.02 min

Lab File: BE092634.D

Acq: 6 Jan 2017 16:16

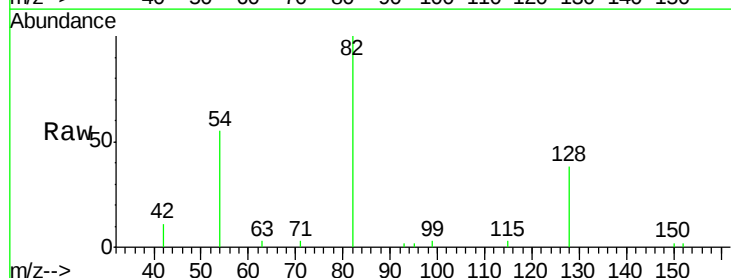
Tgt Ion: 82 Resp: 8832

Ion Ratio Lower Upper

82 100

128 37.7 39.0 58.4#

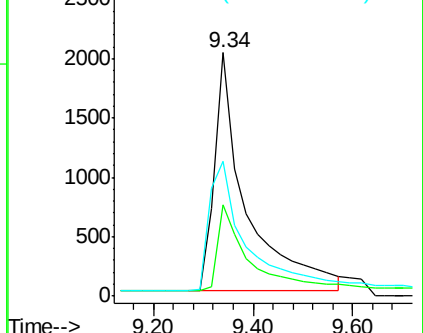
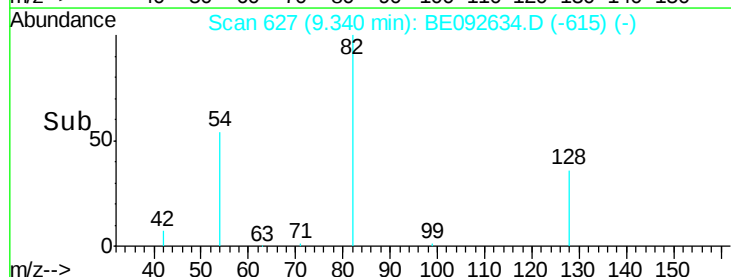
54 55.5 44.8 67.2

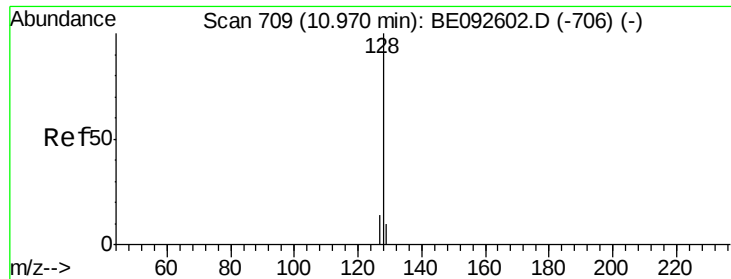


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.07 ng

RT: 10.99 min Scan# 710

Delta R.T. 0.02 min

Lab File: BE092634.D

Acq: 6 Jan 2017 16:16

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-170104

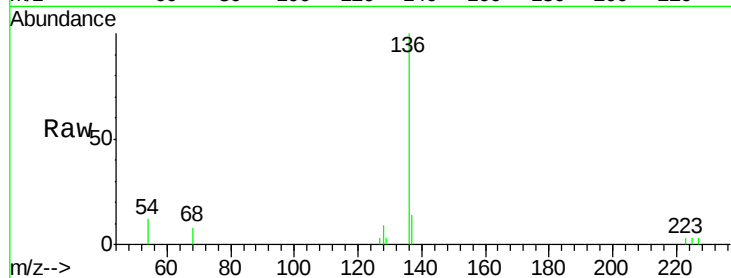
Tgt Ion:128 Resp: 450

Ion Ratio Lower Upper

128 100

129 37.7 11.2 16.8#

127 37.7 11.6 17.4#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

10.99

150

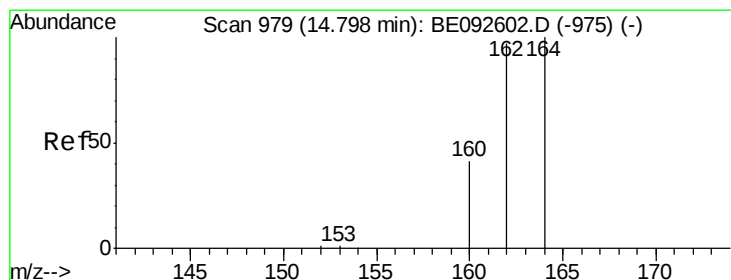
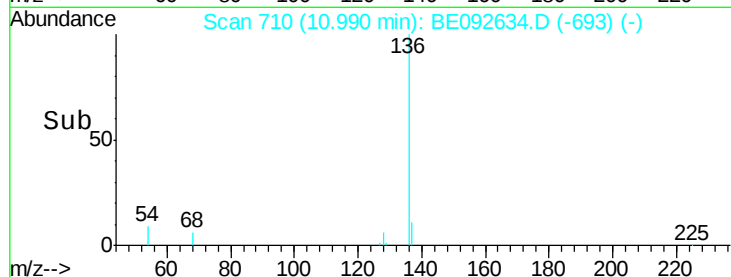
100

50

0

10.80 11.00 11.20

Time-->



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.80 min Scan# 979

Delta R.T. 0.00 min

Lab File: BE092634.D

Acq: 6 Jan 2017 16:16

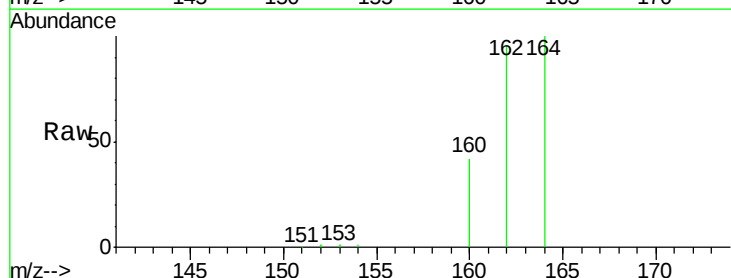
Tgt Ion:164 Resp: 22474

Ion Ratio Lower Upper

164 100

162 96.3 71.4 107.0

160 41.7 27.4 41.2#



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

14.80

15000

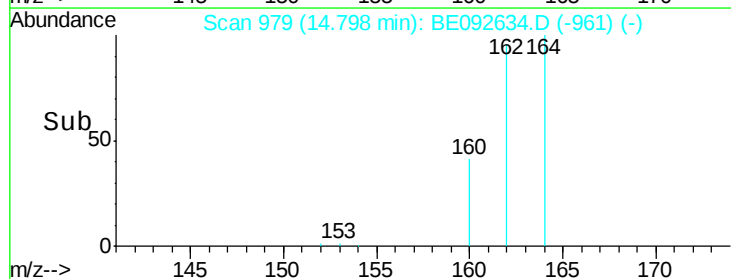
10000

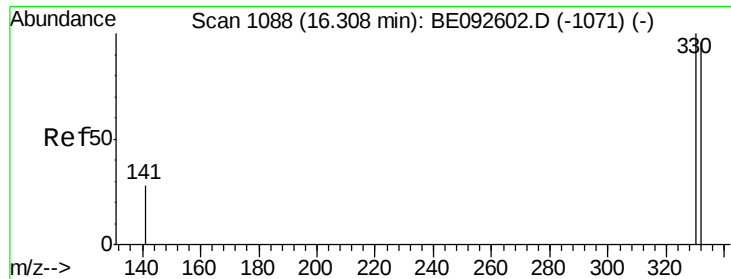
5000

0

14.60 14.80 15.00

Time-->

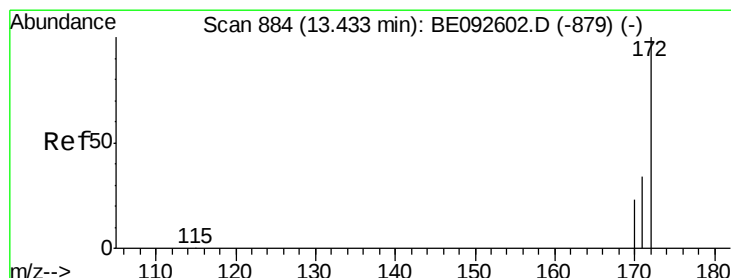
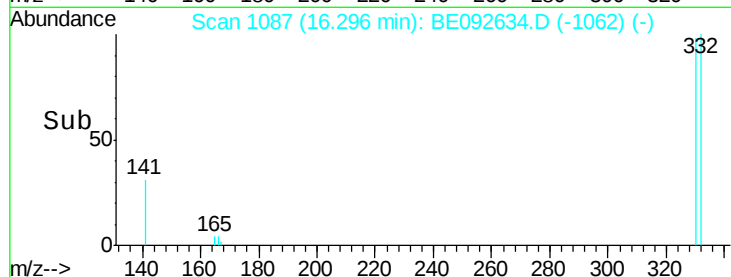
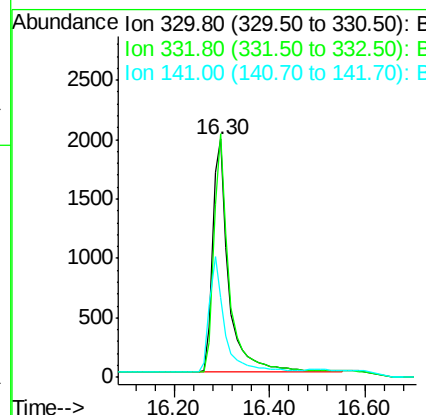
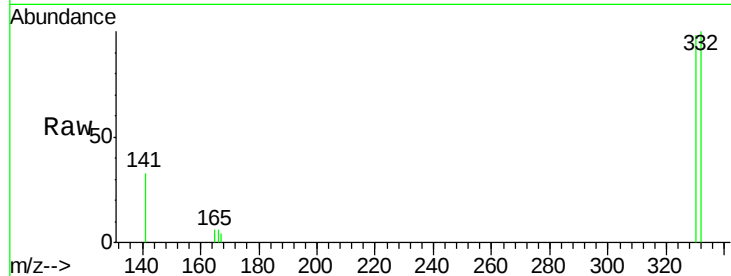




#13  
 2,4,6-Tribromophenol  
 Concen: 7.24 ng  
 RT: 16.30 min Scan# 1087  
 Delta R.T. -0.01 min  
 Lab File: BE092634.D  
 Acq: 6 Jan 2017 16:16

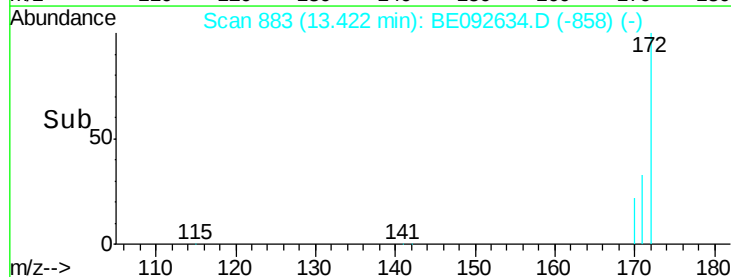
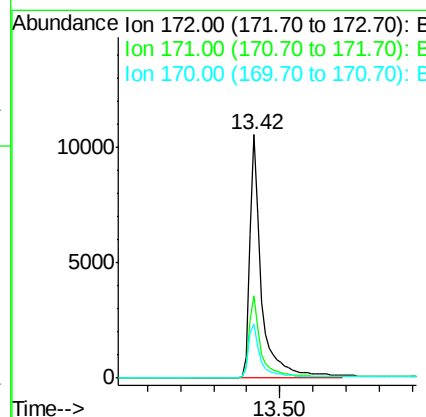
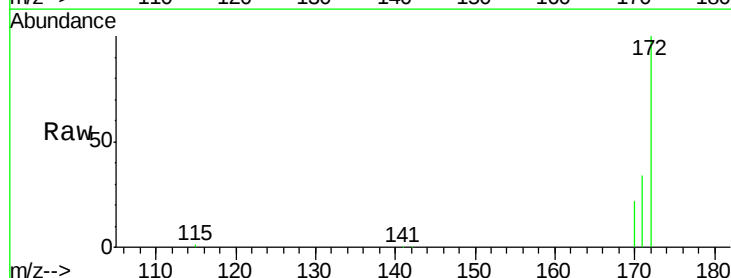
Instrument :  
 BNA\_E  
 ClientSampleId :  
 OUTFALL001-170104

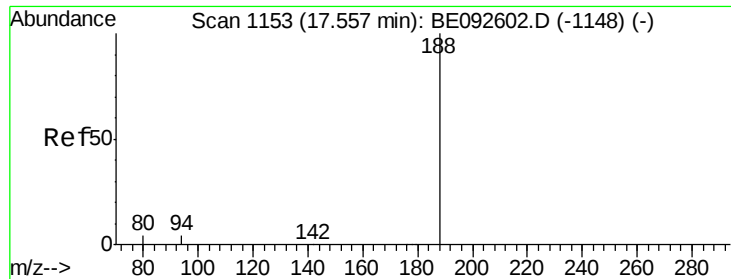
Tgt Ion: 330 Resp: 4689  
 Ion Ratio Lower Upper  
 330 100  
 332 97.4 75.4 113.0  
 141 45.6 31.0 46.6



#14  
 2-Fluorobiphenyl  
 Concen: 4.69 ng  
 RT: 13.42 min Scan# 883  
 Delta R.T. -0.01 min  
 Lab File: BE092634.D  
 Acq: 6 Jan 2017 16:16

Tgt Ion: 172 Resp: 25225  
 Ion Ratio Lower Upper  
 172 100  
 171 33.7 30.1 45.1  
 170 22.3 21.8 32.6

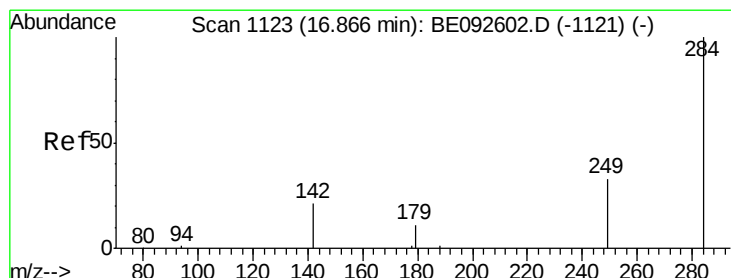
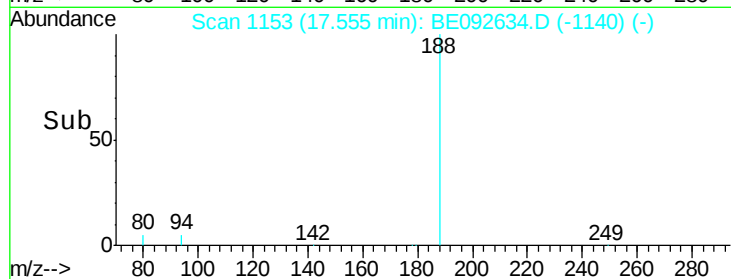
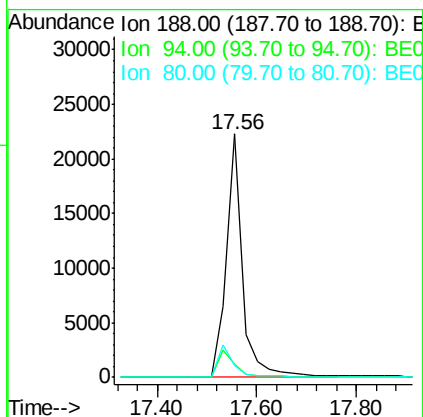
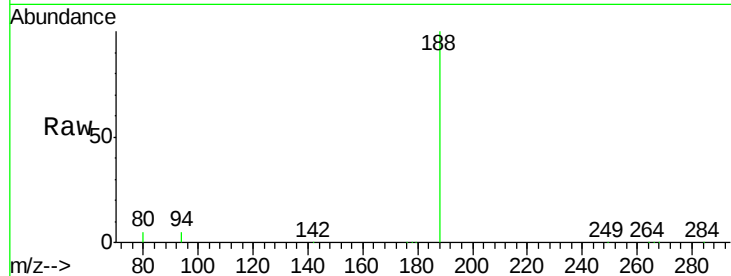




#18  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 17.56 min Scan# 1153  
Delta R.T. -0.00 min  
Lab File: BE092634.D  
Acq: 6 Jan 2017 16:16

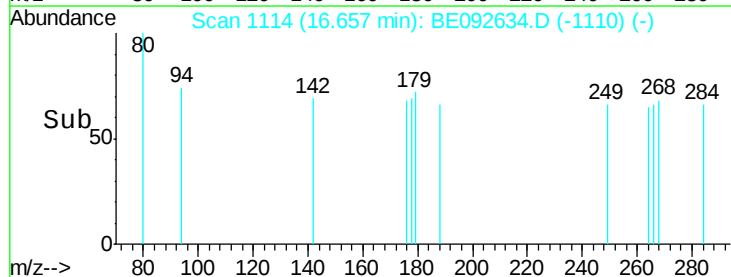
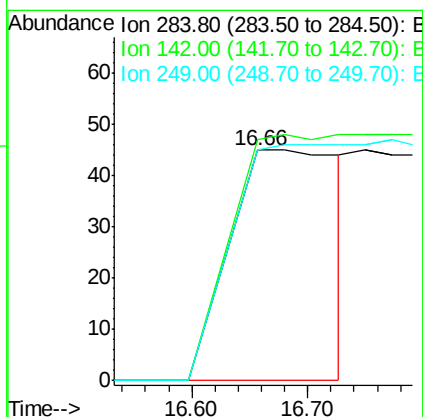
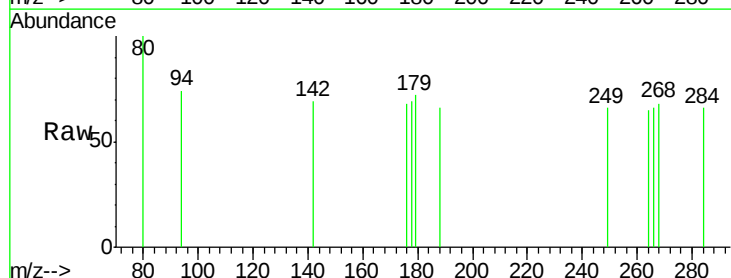
Instrument :  
BNA\_E  
ClientSampleId :  
OUTFALL001-170104

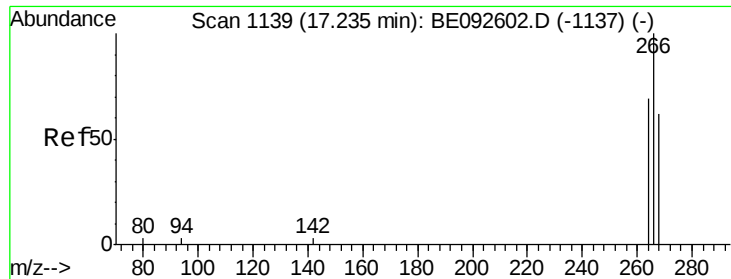
Tgt Ion:188 Resp: 49810  
Ion Ratio Lower Upper  
188 100  
94 5.2 3.2 4.8#  
80 4.9 2.6 3.8#



#19  
Hexachlorobenzene  
Concen: 0.16 ng  
RT: 16.66 min Scan# 1114  
Delta R.T. -0.21 min  
Lab File: BE092634.D  
Acq: 6 Jan 2017 16:16

Tgt Ion:284 Resp: 344  
Ion Ratio Lower Upper  
284 100  
142 0.0 29.1 43.7#  
249 0.0 27.9 41.9#

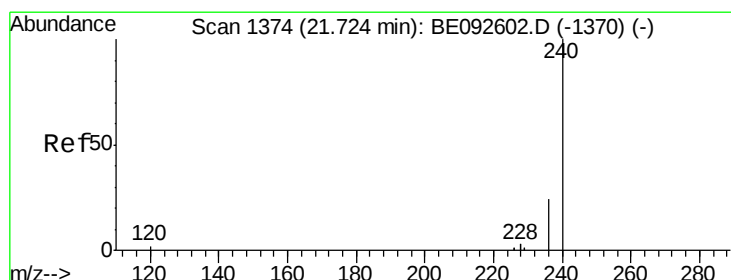
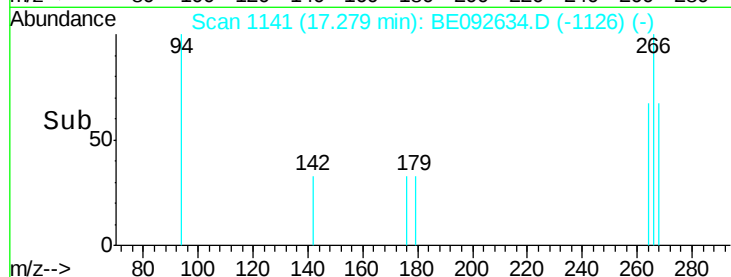
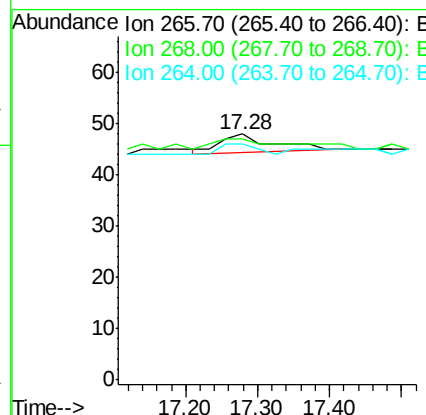
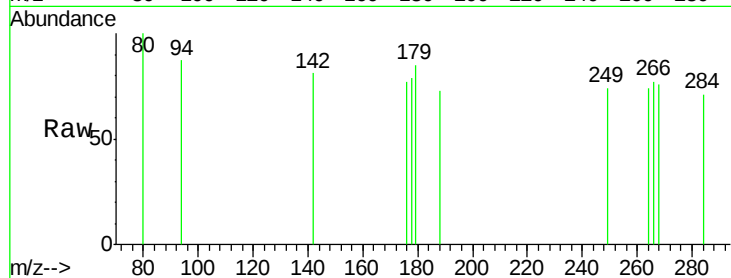




#20  
 Pentachlorophenol  
 Concen: 0.04 ng  
 RT: 17.28 min Scan# 1141  
 Delta R.T. 0.04 min  
 Lab File: BE092634.D  
 Acq: 6 Jan 2017 16:16

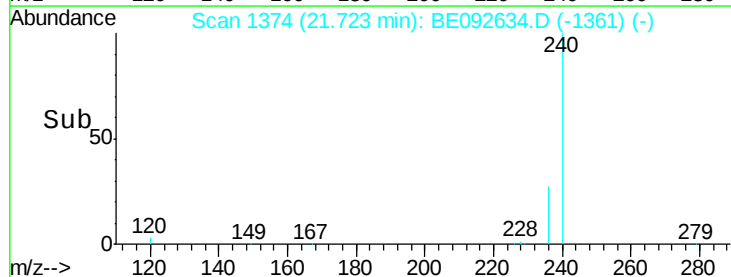
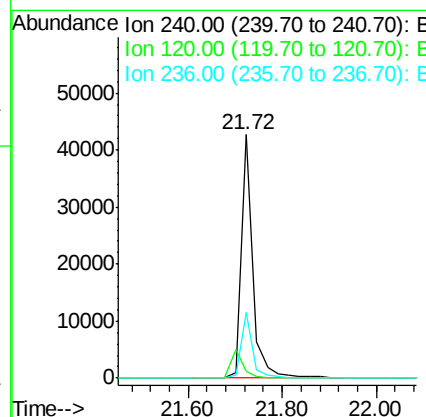
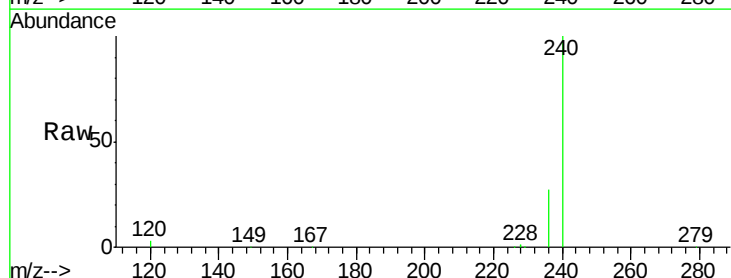
Instrument :  
 BNA\_E  
 ClientSampleId :  
 OUTFALL001-170104

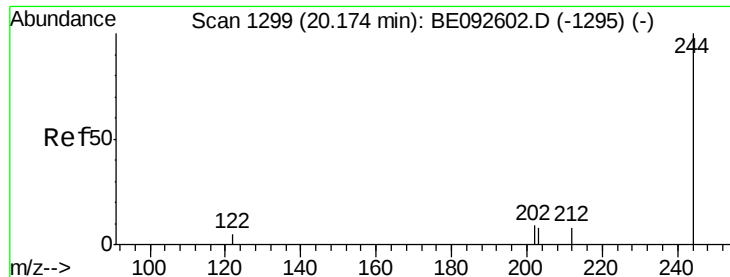
Tgt Ion: 266 Resp: 19  
 Ion Ratio Lower Upper  
 266 100  
 268 97.9 62.5 93.7#  
 264 95.8 57.2 85.8#



#24  
 Chrysene-d12  
 Concen: 5.00 ng  
 RT: 21.72 min Scan# 1374  
 Delta R.T. -0.00 min  
 Lab File: BE092634.D  
 Acq: 6 Jan 2017 16:16

Tgt Ion: 240 Resp: 73271  
 Ion Ratio Lower Upper  
 240 100  
 120 2.8 2.6 4.0  
 236 26.7 24.6 37.0





#26

Terphenyl-d14

Concen: 4.86 ng

RT: 20.16 min Scan# 1298

Delta R.T. -0.02 min

Lab File: BE092634.D

Acq: 6 Jan 2017 16:16

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-170104

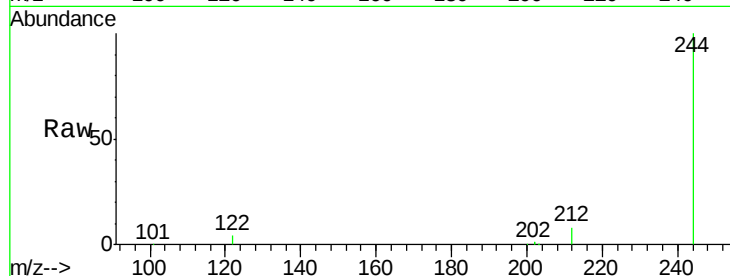
Tgt Ion:244 Resp: 43680

Ion Ratio Lower Upper

244 100

212 8.0 6.7 10.1

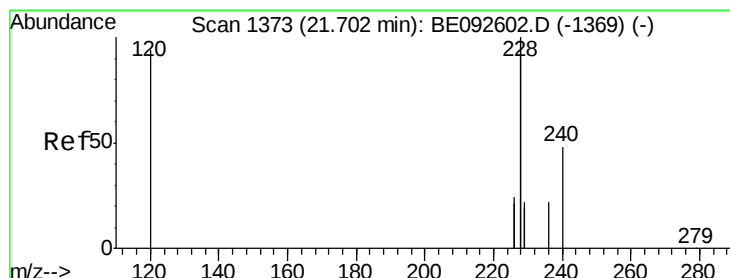
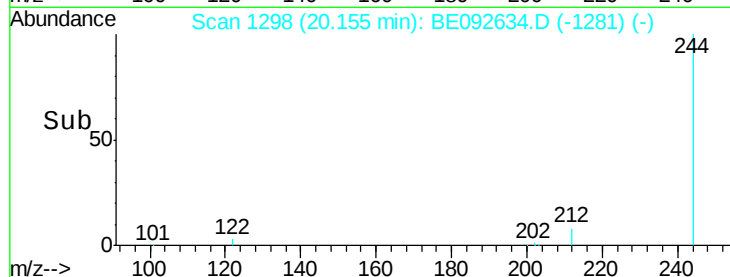
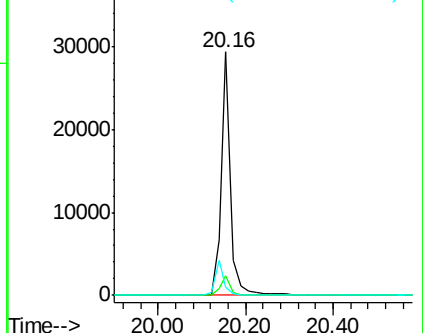
122 3.6 3.6 5.4#



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



#27

Benzo(a)anthracene

Concen: 0.02 ng

RT: 21.72 min Scan# 1374

Delta R.T. 0.02 min

Lab File: BE092634.D

Acq: 6 Jan 2017 16:16

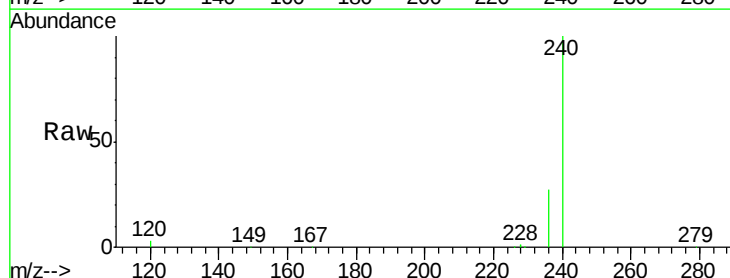
Tgt Ion:228 Resp: 1453

Ion Ratio Lower Upper

228 100

226 39.7 23.6 35.4#

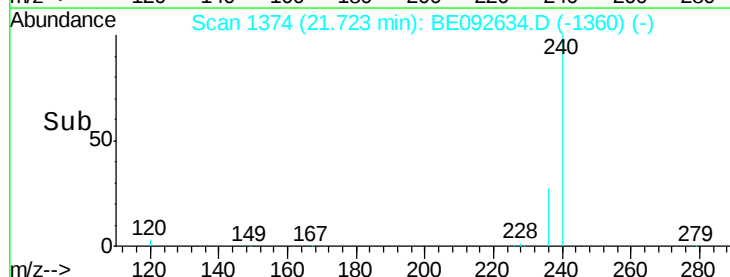
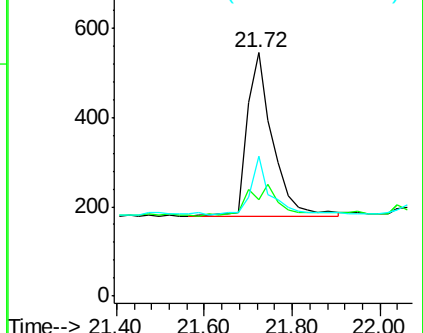
229 57.7 13.3 19.9#

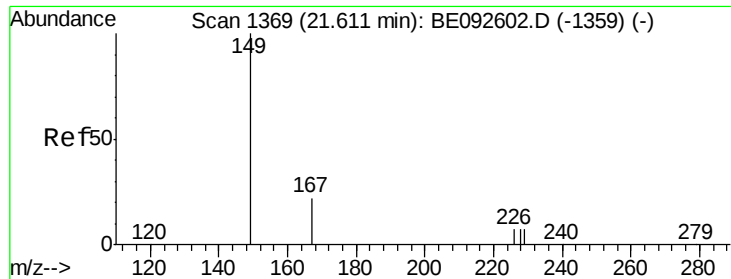


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#29

Bis(2-ethylhexyl)phthalate

Concen: 0.18 ng

RT: 21.61 min Scan# 1369

Delta R.T. -0.00 min

Lab File: BE092634.D

Acq: 6 Jan 2017 16:16

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-170104

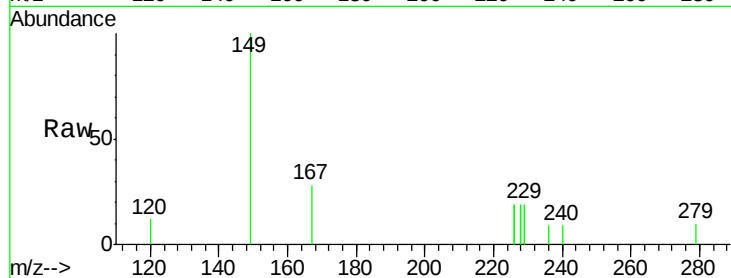
Tgt Ion:149 Resp: 748

Ion Ratio Lower Upper

149 100

167 19.3 16.0 24.0

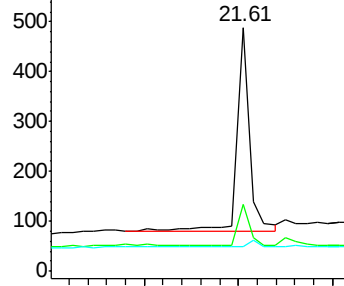
279 0.0 16.0 24.0#



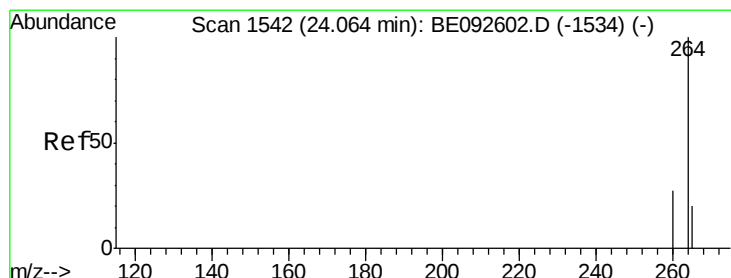
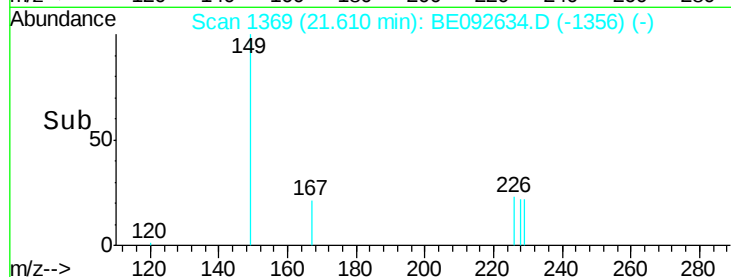
Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->



#31

Perylene-d12

Concen: 5.00 ng

RT: 24.08 min Scan# 1543

Delta R.T. 0.01 min

Lab File: BE092634.D

Acq: 6 Jan 2017 16:16

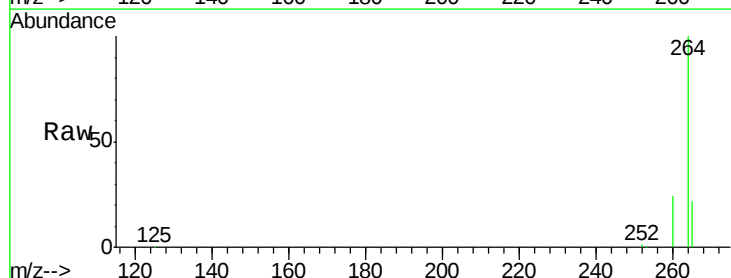
Tgt Ion:264 Resp: 61775

Ion Ratio Lower Upper

264 100

260 24.5 20.1 30.1

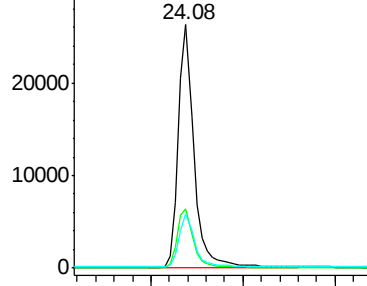
265 22.3 17.9 26.9



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



Time-->

