

Data Path : Z:\HPCHEM1\BNA\_E\Data\BE051117\  
 Data File : BE093001.D  
 Acq On : 11 May 2017 18:08  
 Operator : SJ/MA  
 Sample : I3058-06  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 DUP-0398-170508

Quant Time: May 11 18:55:59 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE051117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 11 14:48:08 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.75  | 152  | 876      | 0.40 | ng    | -0.02    |
| 7) Naphthalene-d8         | 10.53 | 136  | 3586     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.39 | 164  | 1846     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.13 | 188  | 5774     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.28 | 240  | 5711     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.69 | 264  | 4780     | 0.40 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.36  | 112  | 488      | 0.20 | ng    | 0.00     |
| 5) Phenol-d6                | 6.92  | 99   | 520      | 0.17 | ng    | -0.02    |
| 8) Nitrobenzene-d5          | 8.88  | 82   | 1129     | 0.40 | ng    | -0.02    |
| 11) 2-Methylnaphthalene-d10 | 12.12 | 152  | 1967     | 0.39 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol    | 15.87 | 330  | 259      | 0.52 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl        | 13.01 | 172  | 3382     | 0.46 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 19.14 | 212  | 5378     | 0.35 | ng    | -0.02    |
| 29) Terphenyl-d14           | 19.74 | 244  | 6514     | 0.64 | ng    | 0.00     |

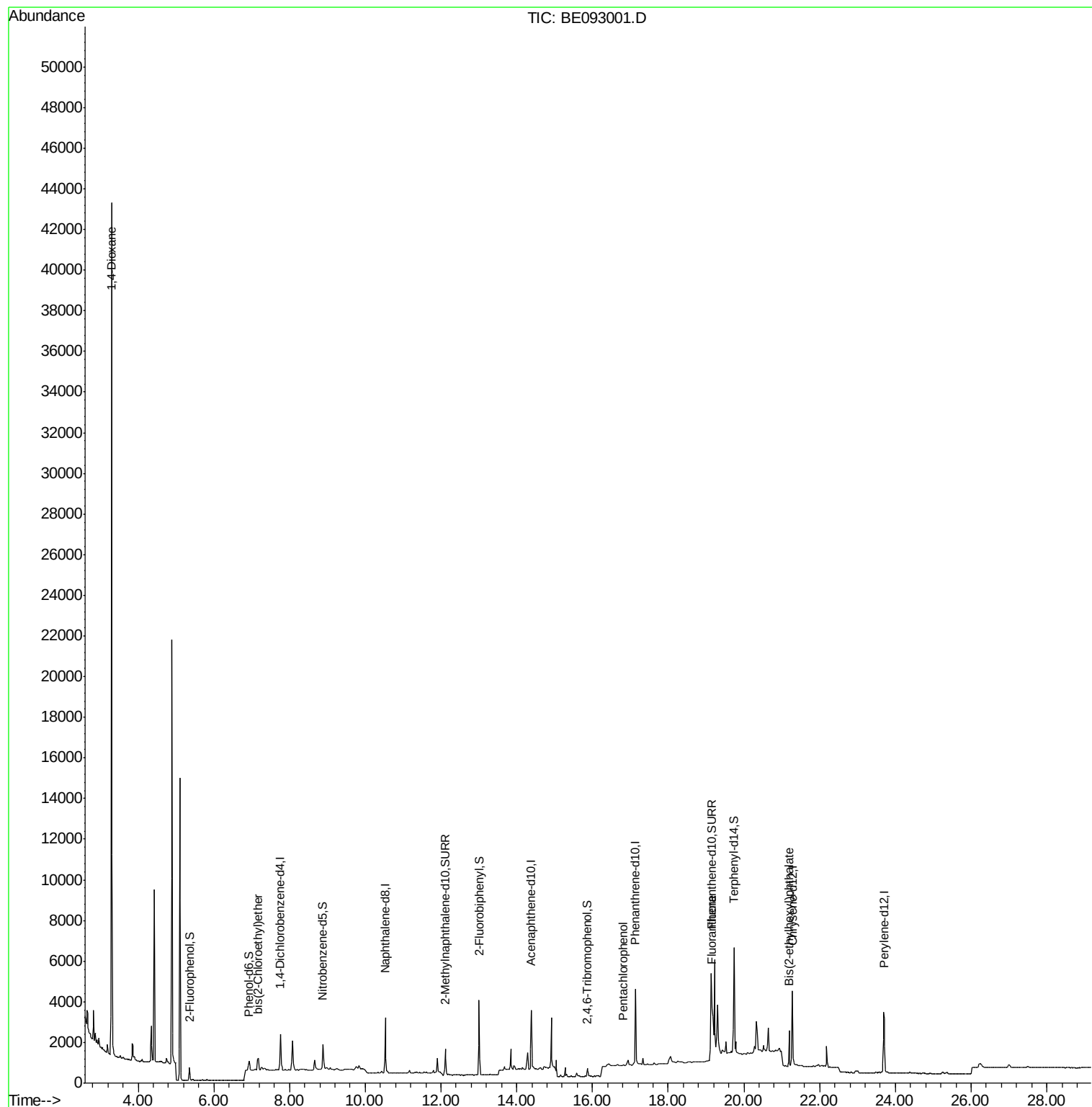
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 2) 1,4-Dioxane                 | 3.31  | 88   | 25566    | 14.55     | ng    | 96     |
| 6) bis(2-Chloroethyl)ether     | 7.18  | 93   | 695      | 0.24      | ng    | # 100  |
| 21) Hexachlorobenzene          | 16.47 | 284  | 12       | Below Cal | #     | 100    |
| 22) Pentachlorophenol          | 16.82 | 266  | 26       | 0.11      | ng    | # 86   |
| 23) Phenanthrene               | 17.16 | 178  | 145      | Below Cal | #     | 70     |
| 26) Fluoranthene               | 19.16 | 202  | 1652     | 0.02      | ng    | # 59   |
| 32) Bis(2-ethylhexyl)phthalate | 21.20 | 149  | 1734     | 0.35      | ng    | 94     |

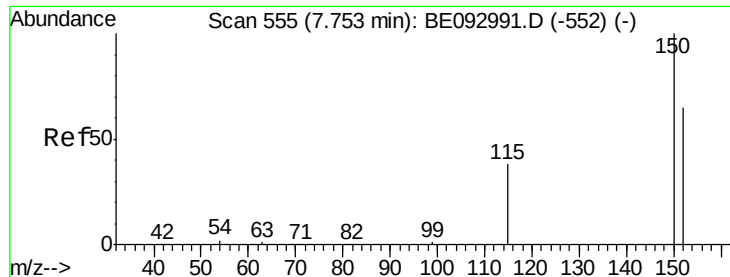
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.40 ng

RT: 7.75 min Scan# 555

Delta R.T. -0.02 min

Lab File: BE093001.D

Acq: 11 May 2017 18:08

Instrument :

BNA\_E

ClientSampleId :

DUP-0398-170508

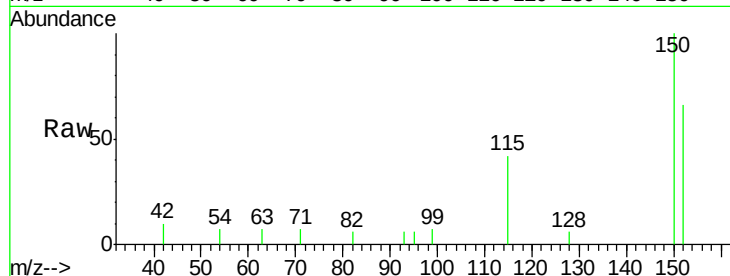
Tgt Ion:152 Resp: 876

Ion Ratio Lower Upper

152 100

150 151.8 125.1 187.7

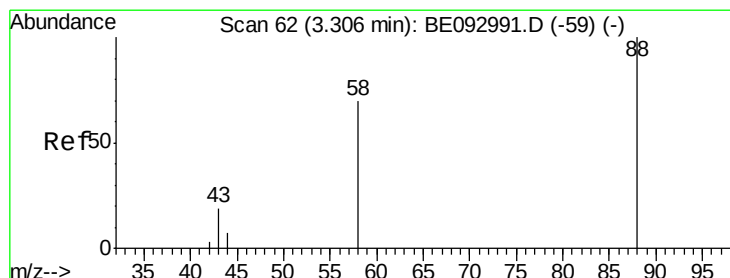
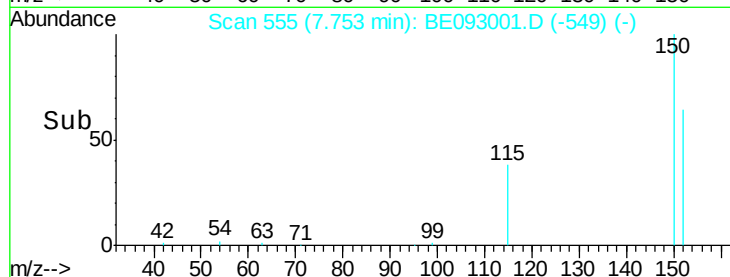
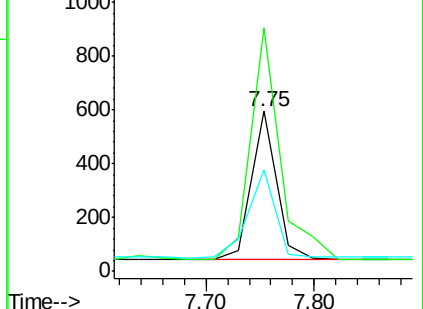
115 63.4 55.7 83.5



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: 14.55 ng

RT: 3.31 min Scan# 62

Delta R.T. -0.00 min

Lab File: BE093001.D

Acq: 11 May 2017 18:08

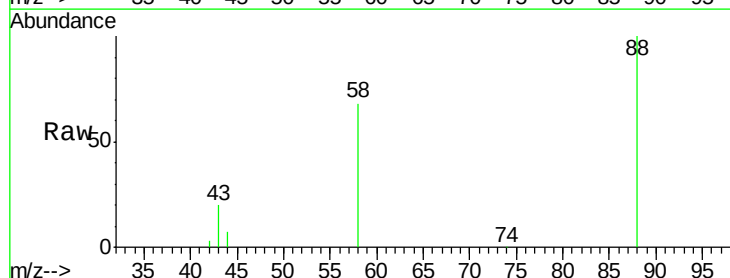
Tgt Ion: 88 Resp: 25566

Ion Ratio Lower Upper

88 100

58 80.8 62.2 93.4

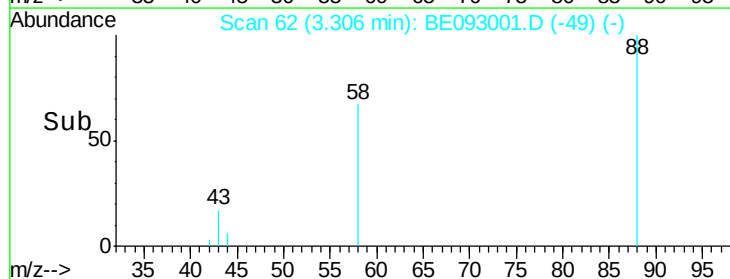
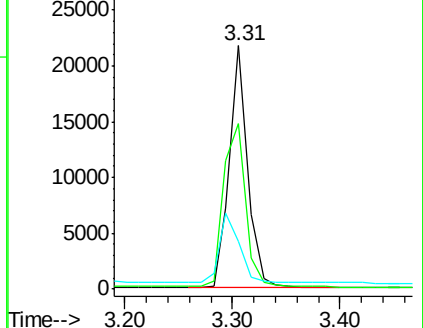
43 32.1 23.2 34.8

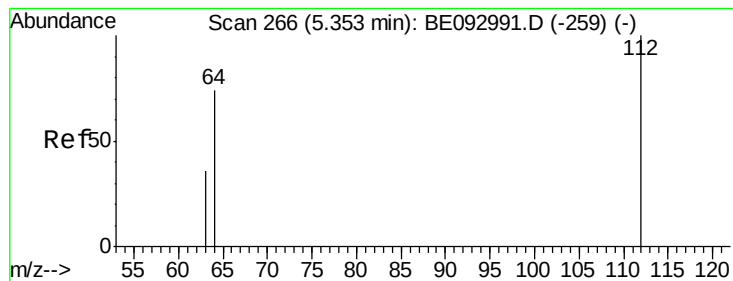


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 0.20 ng

RT: 5.36 min Scan# 267

Delta R.T. 0.00 min

Lab File: BE093001.D

Acq: 11 May 2017 18:08

Instrument :

BNA\_E

ClientSampleId :

DUP-0398-170508

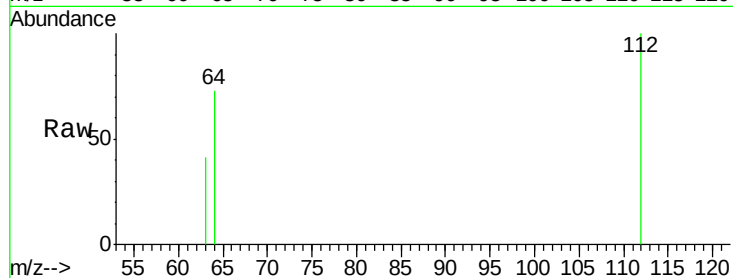
Tgt Ion: 112 Resp: 488

Ion Ratio Lower Upper

112 100

64 68.6 56.4 84.6

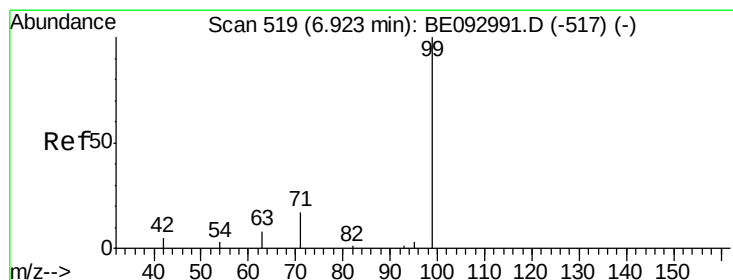
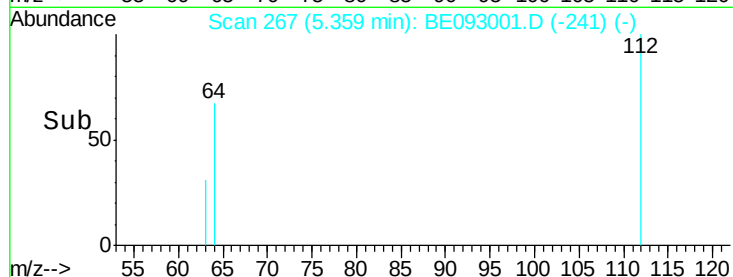
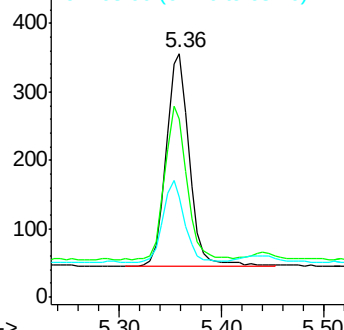
63 36.7 29.3 43.9



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 0.17 ng

RT: 6.92 min Scan# 519

Delta R.T. -0.02 min

Lab File: BE093001.D

Acq: 11 May 2017 18:08

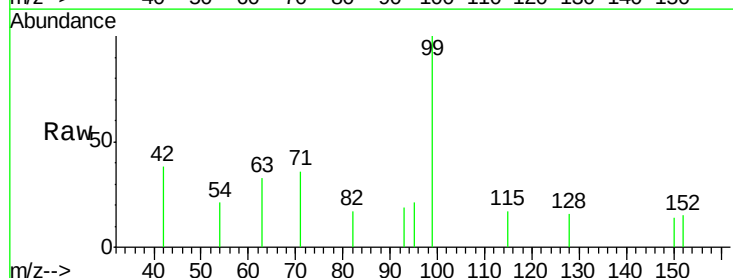
Tgt Ion: 99 Resp: 520

Ion Ratio Lower Upper

99 100

42 0.0 0.0 0.0

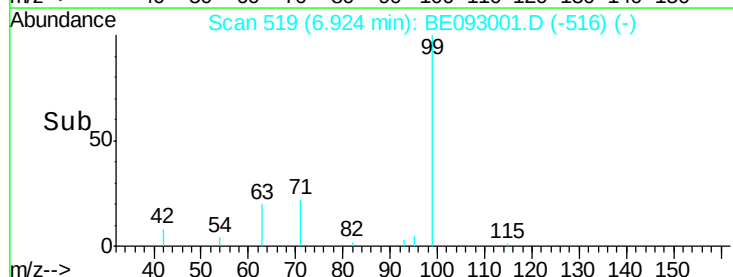
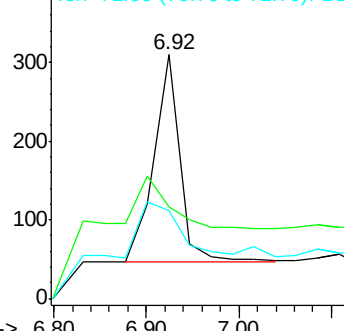
71 0.0 0.0 0.0

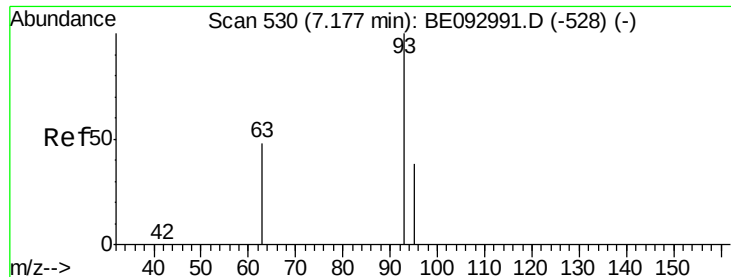


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#6

bis(2-Chloroethyl)ether

Concen: 0.24 ng

RT: 7.18 min Scan# 530

Delta R.T. -0.02 min

Lab File: BE093001.D

Acq: 11 May 2017 18:08

Instrument :

BNA\_E

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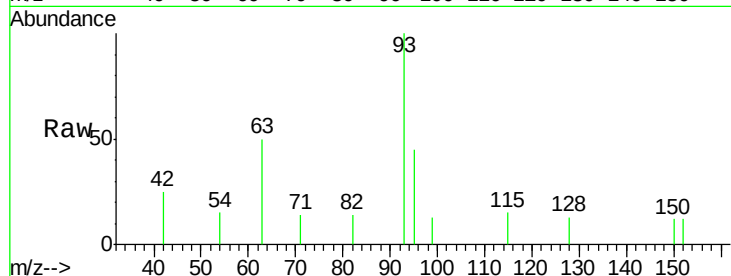
Tgt Ion: 93 Resp: 695

Ion Ratio Lower Upper

93 100

63 0.0 0.0 0.0

95 31.8 25.4 38.0

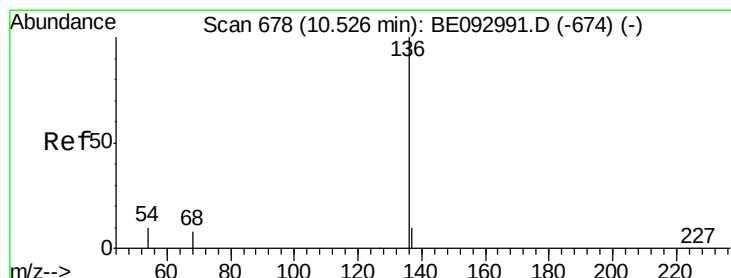
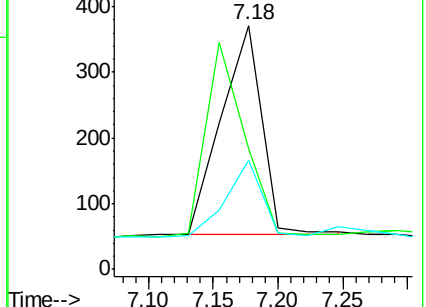
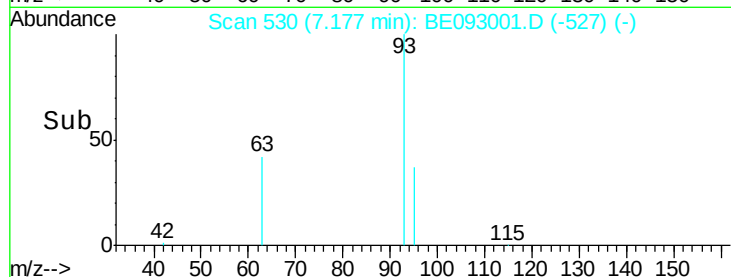


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0

Time-->



#7

Naphthalene-d8

Concen: 0.40 ng

RT: 10.53 min Scan# 678

Delta R.T. -0.00 min

Lab File: BE093001.D

Acq: 11 May 2017 18:08

Tgt Ion: 136 Resp: 3586

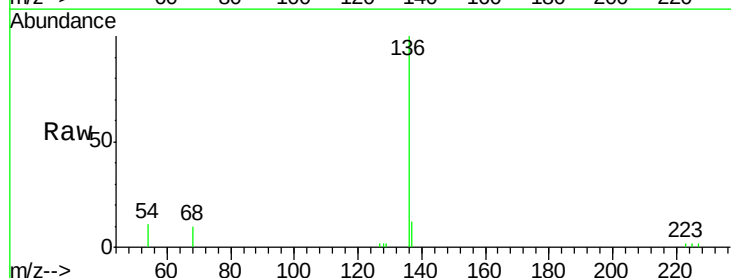
Ion Ratio Lower Upper

136 100

137 12.4 9.8 14.8

54 11.0 10.3 15.5

68 10.3 9.0 13.4



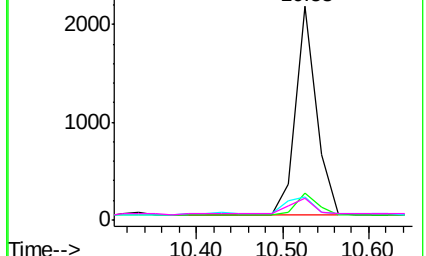
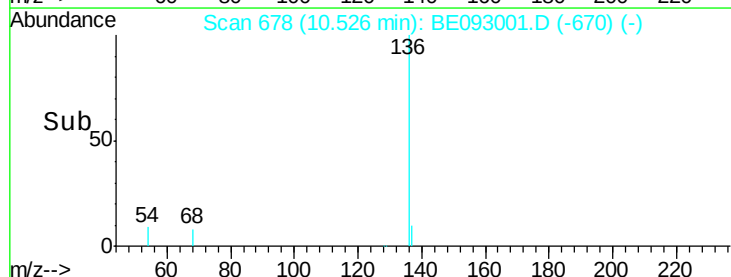
Abundance Ion 136.00 (135.70 to 136.70): E

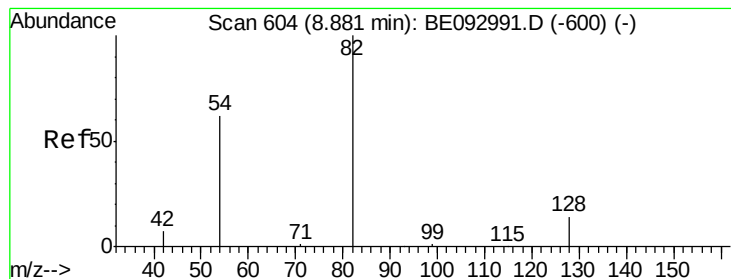
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0

Time-->





#8

Nitrobenzene-d5

Concen: 0.40 ng

RT: 8.88 min Scan# 604

Delta R.T. -0.02 min

Lab File: BE093001.D

Acq: 11 May 2017 18:08

Instrument :

BNA\_E

ClientSampleId :

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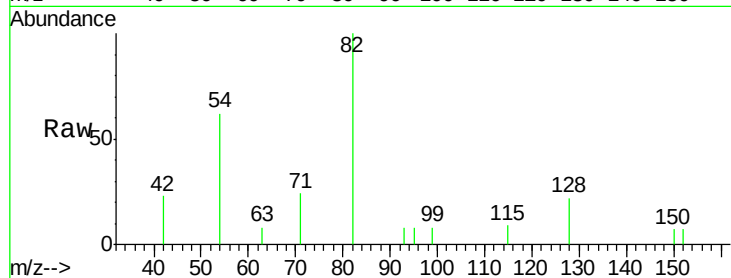
Tgt Ion: 82 Resp: 1129

Ion Ratio Lower Upper

82 100

128 21.7 17.0 25.4

54 62.3 53.8 80.6

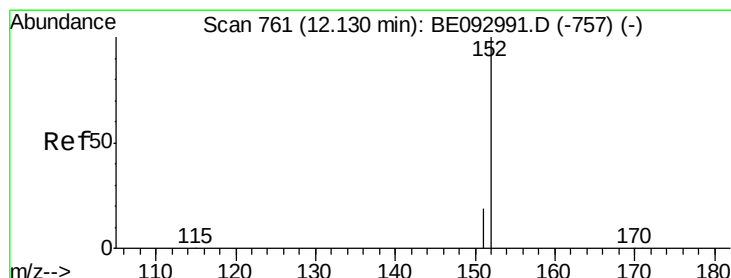
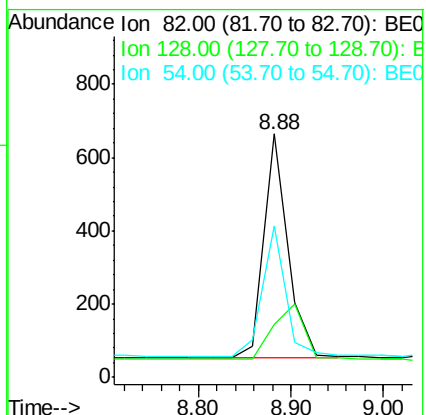
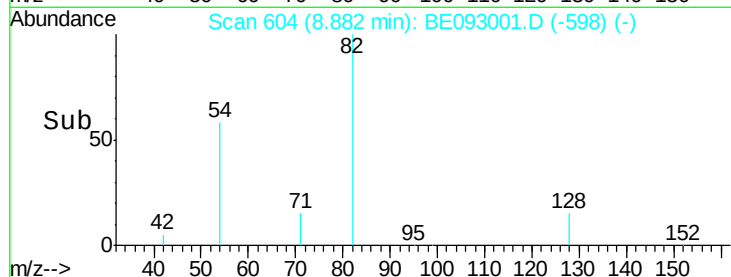


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0

Time-->



#11

2-Methylnaphthalene-d10

Concen: 0.39 ng

RT: 12.12 min Scan# 760

Delta R.T. -0.02 min

Lab File: BE093001.D

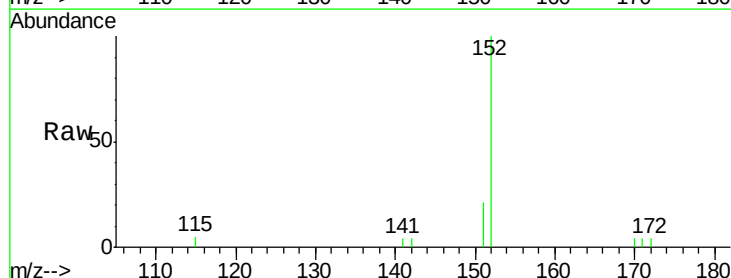
Acq: 11 May 2017 18:08

Tgt Ion: 152 Resp: 1967

Ion Ratio Lower Upper

152 100

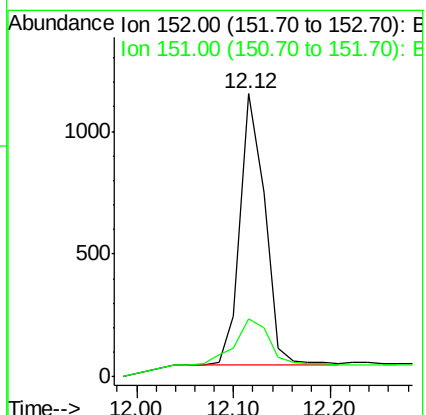
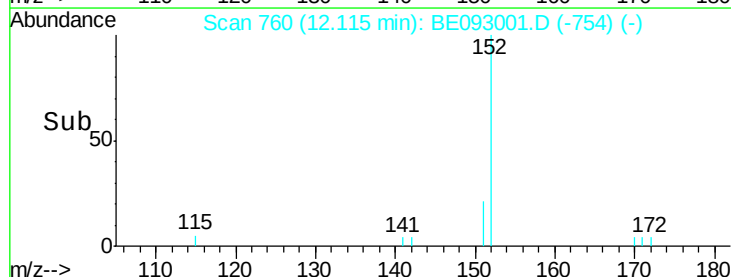
151 24.0 15.1 22.7#

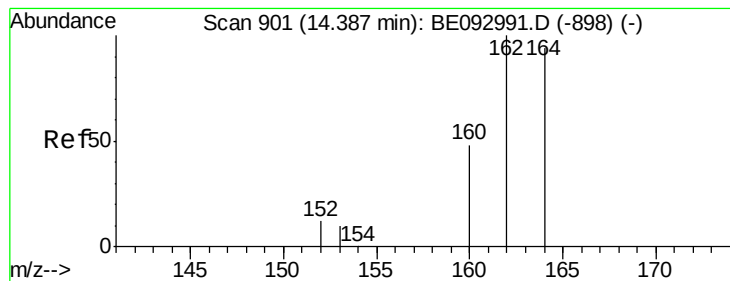


Abundance Ion 152.00 (151.70 to 152.70): BE0

Ion 151.00 (150.70 to 151.70): BE0

Time-->





#13

Acenaphthene-d10

Concen: 0.40 ng

RT: 14.39 min Scan# 901

Delta R.T. -0.00 min

Lab File: BE093001.D

Acq: 11 May 2017 18:08

Instrument :

BNA\_E

ClientSampleId :

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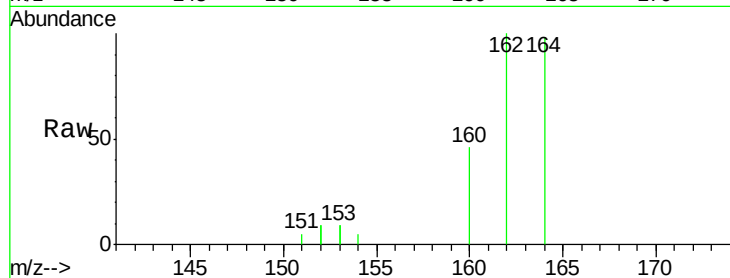
Tgt Ion:164 Resp: 1846

Ion Ratio Lower Upper

164 100

162 101.6 84.6 127.0

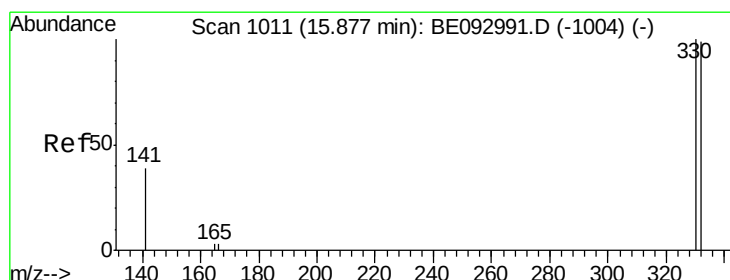
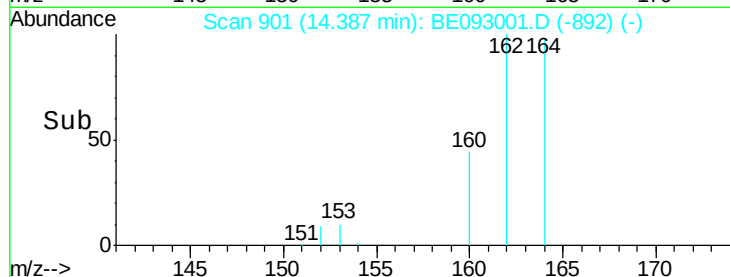
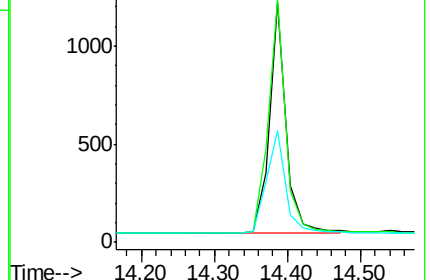
160 46.6 41.8 62.6



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: 0.52 ng

RT: 15.87 min Scan# 1010

Delta R.T. -0.01 min

Lab File: BE093001.D

Acq: 11 May 2017 18:08

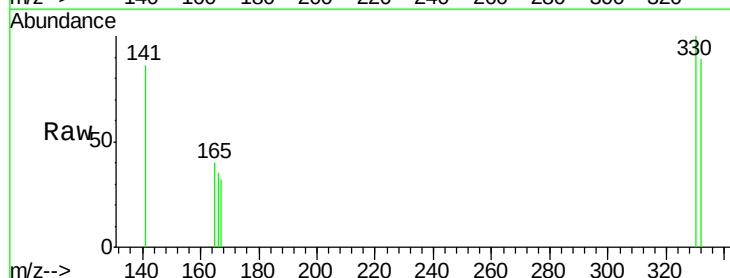
Tgt Ion:330 Resp: 259

Ion Ratio Lower Upper

330 100

332 96.9 77.7 116.5

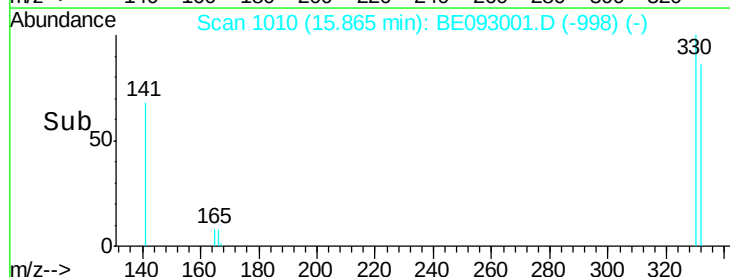
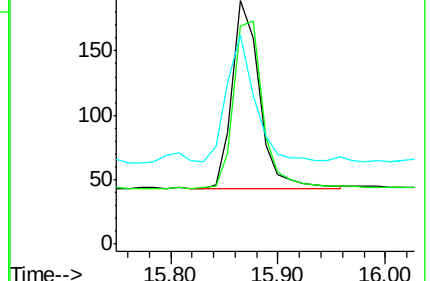
141 68.7 56.2 84.4

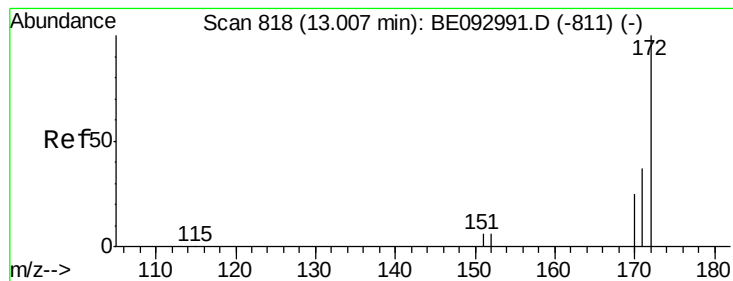


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

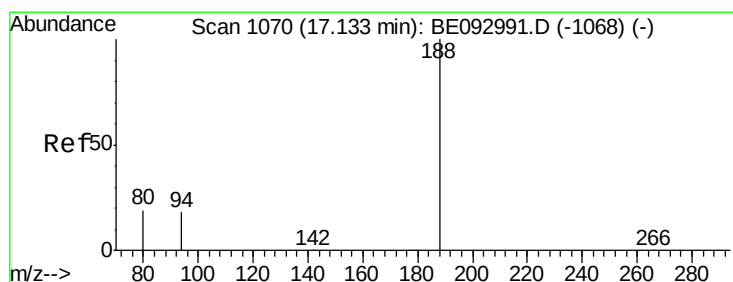
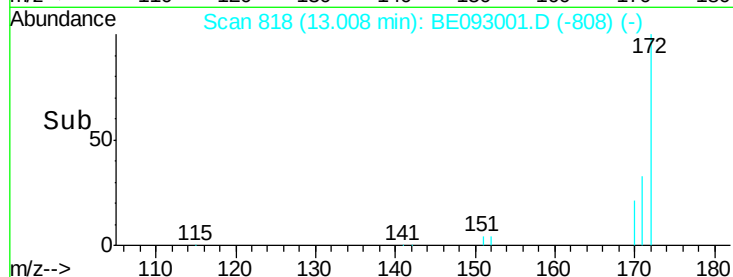
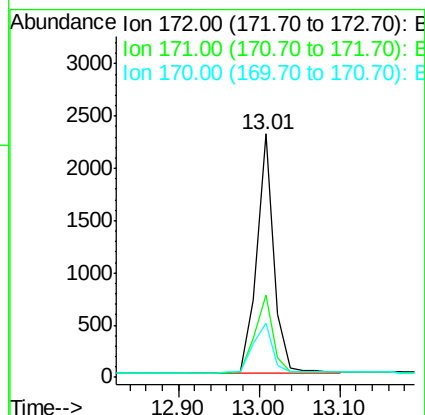
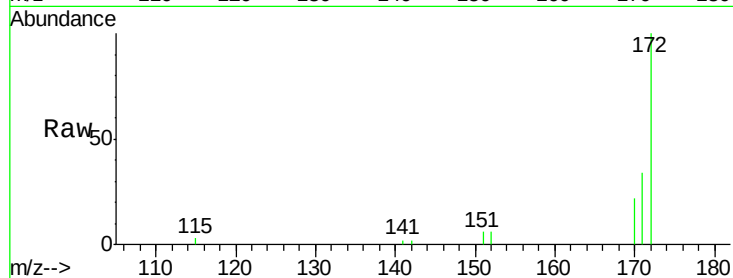




#15  
2-Fluorobiphenyl  
Concen: 0.46 ng  
RT: 13.01 min Scan# 818  
Delta R.T. -0.00 min  
Lab File: BE093001.D  
Acq: 11 May 2017 18:08

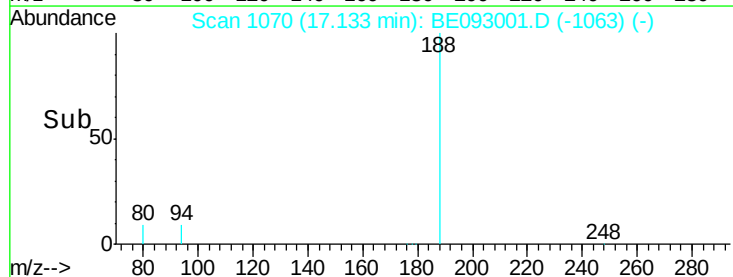
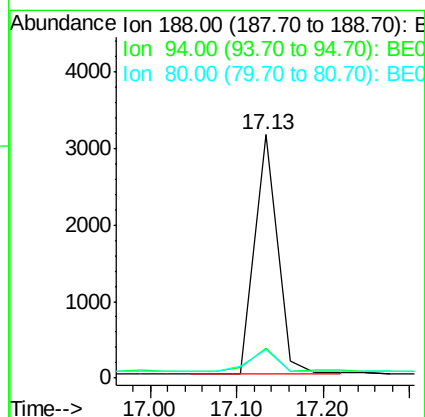
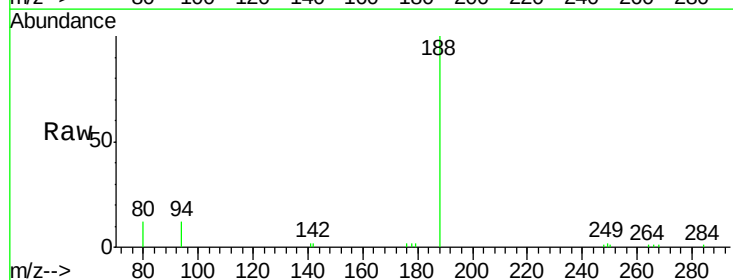
Instrument :  
BNA\_E  
ClientSampleId :  
DUP-0398-170508

Tgt Ion:172 Resp: 3382  
Ion Ratio Lower Upper  
172 100  
171 34.0 29.8 44.6  
170 22.3 20.7 31.1

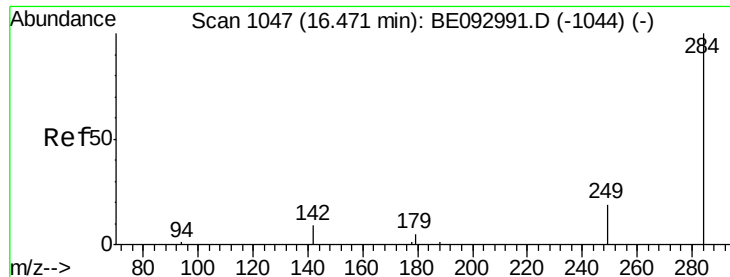


#19  
Phenanthrene-d10  
Concen: 0.40 ng  
RT: 17.13 min Scan# 1070  
Delta R.T. -0.00 min  
Lab File: BE093001.D  
Acq: 11 May 2017 18:08

Tgt Ion:188 Resp: 5774  
Ion Ratio Lower Upper  
188 100  
94 12.1 11.3 16.9  
80 11.9 11.7 17.5



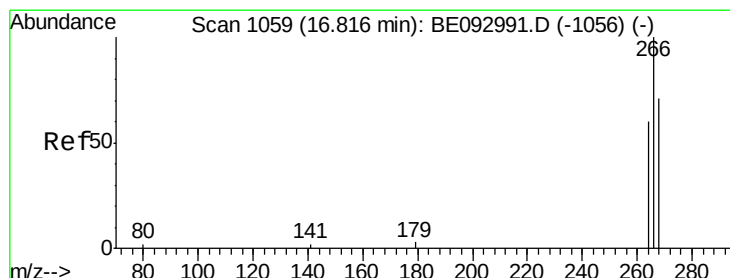
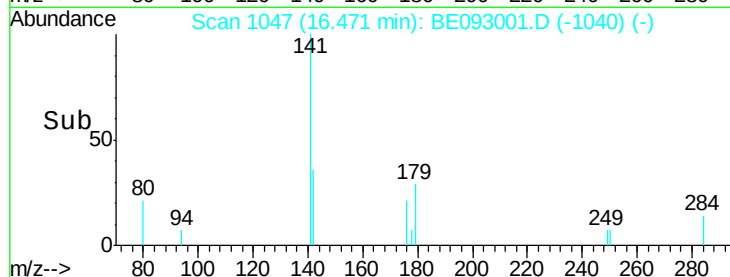
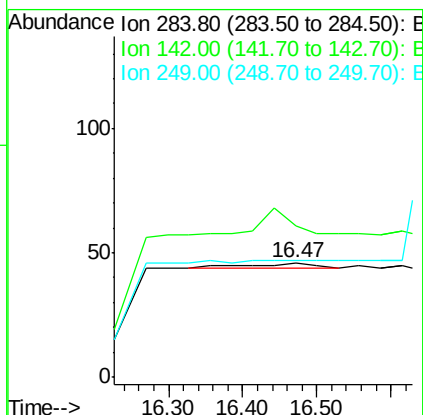
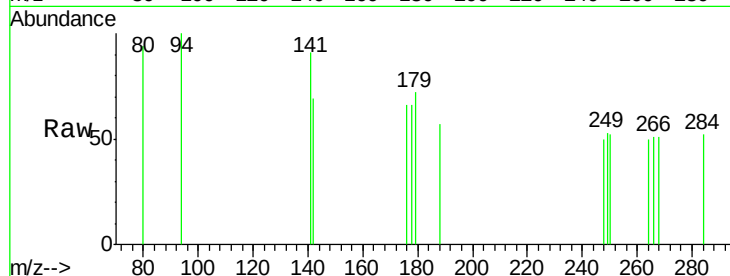




#21  
Hexachlorobenzene  
Concen: Below Cal  
RT: 16.47 min Scan# 1047  
Delta R.T. 0.01 min  
Lab File: BE093001.D  
Acq: 11 May 2017 18:08

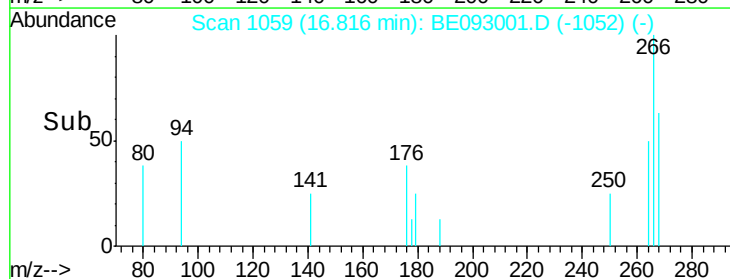
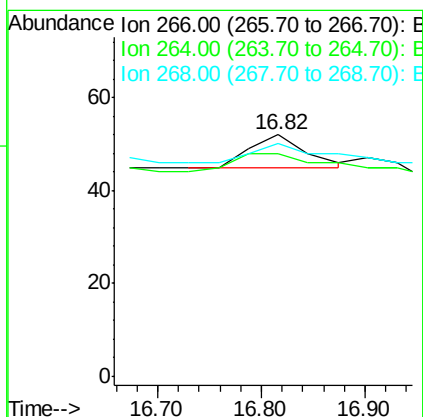
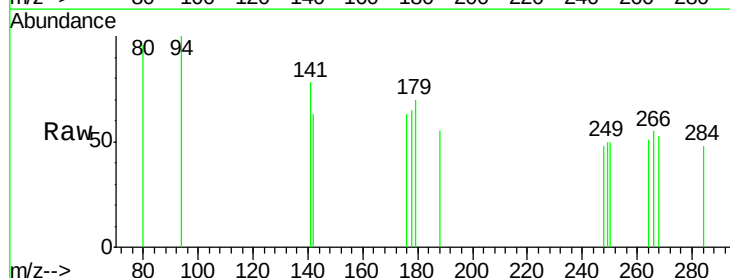
Instrument :  
BNA\_E  
ClientSampleId :  
DUP-0398-170508

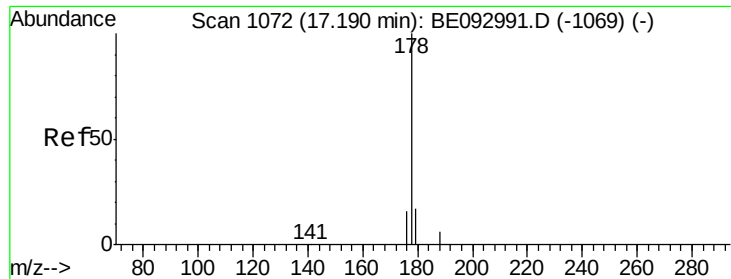
Tgt Ion: 284 Resp: 12  
Ion Ratio Lower Upper  
284 100  
142 0.0 0.0 0.0  
249 0.0 0.0 0.0



#22  
Pentachlorophenol  
Concen: 0.11 ng  
RT: 16.82 min Scan# 1059  
Delta R.T. 0.01 min  
Lab File: BE093001.D  
Acq: 11 May 2017 18:08

Tgt Ion: 266 Resp: 26  
Ion Ratio Lower Upper  
266 100  
264 92.3 58.2 87.2#  
268 96.2 71.9 107.9





#23

Phenanthrene

Concen: Below Cal

RT: 17.16 min Scan# 1071

Delta R.T. -0.02 min

Lab File: BE093001.D

Acq: 11 May 2017 18:08

Instrument :

BNA\_E

ClientSampleId :

DUP-0398-170508

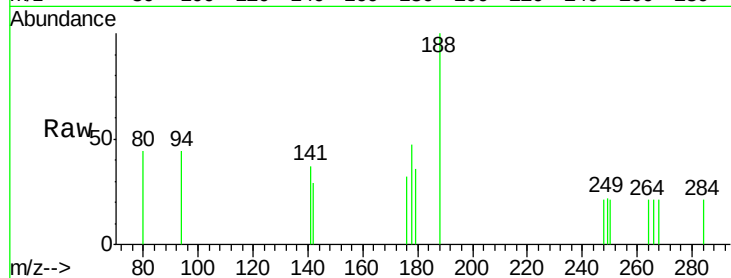
Tgt Ion:178 Resp: 145

Ion Ratio Lower Upper

178 100

176 16.6 15.0 22.4

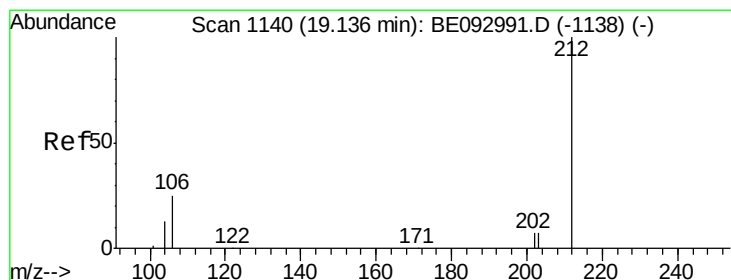
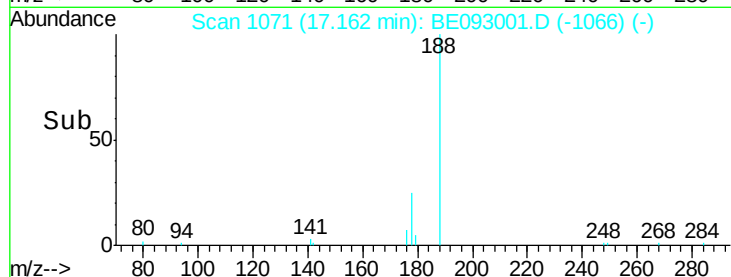
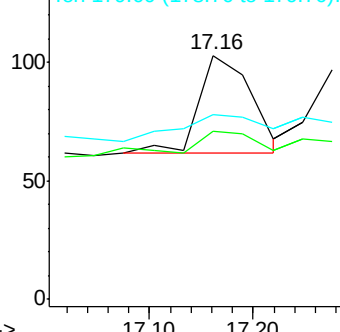
179 41.4 12.7 19.1#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#25

Fluoranthene-d10

Concen: 0.35 ng

RT: 19.14 min Scan# 1140

Delta R.T. -0.02 min

Lab File: BE093001.D

Acq: 11 May 2017 18:08

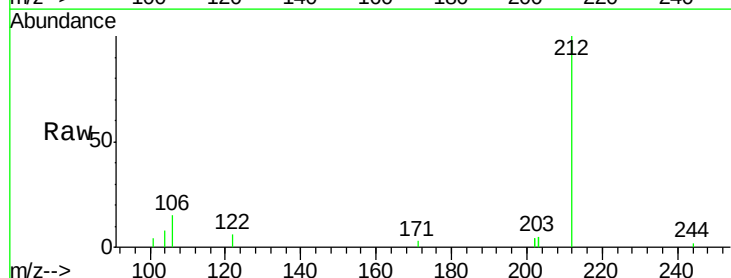
Tgt Ion:212 Resp: 5378

Ion Ratio Lower Upper

212 100

106 24.1 0.0 0.0#

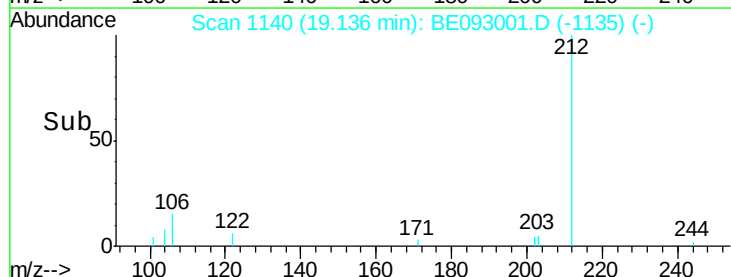
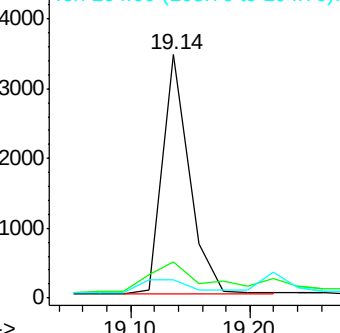
104 11.5 0.0 0.0#

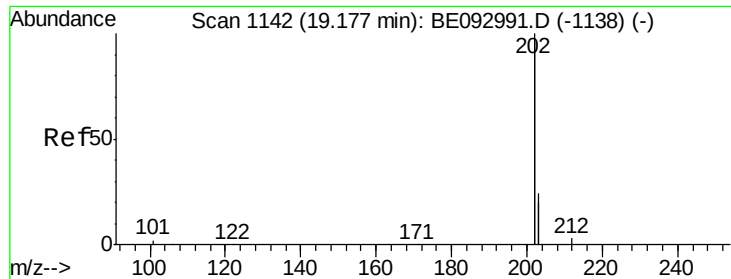


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

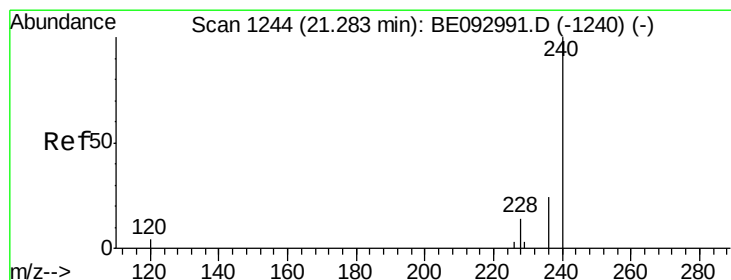
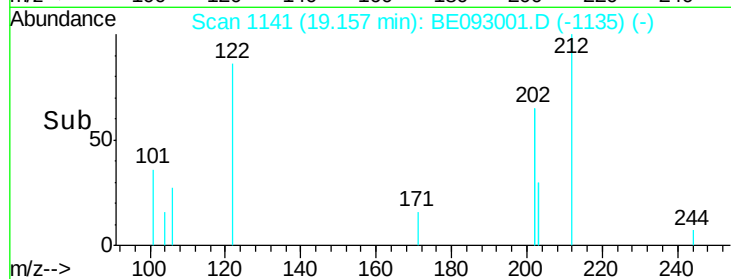
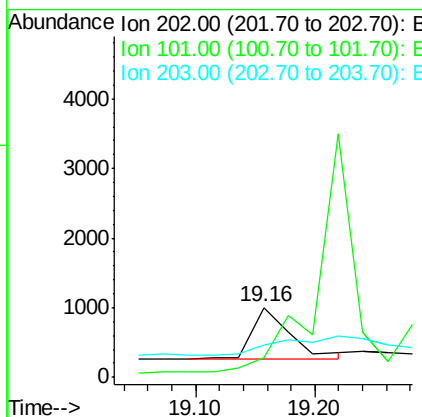
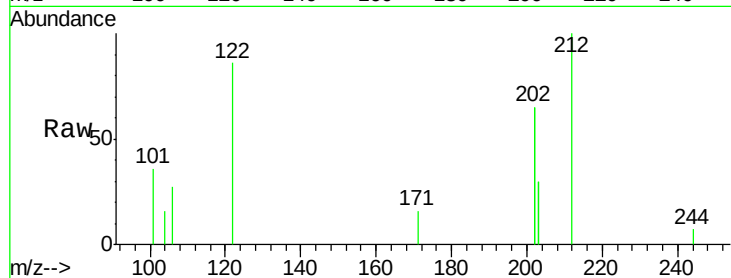




#26  
Fluoranthene  
Concen: 0.02 ng  
RT: 19.16 min Scan# 1141  
Delta R.T. -0.02 min  
Lab File: BE093001.D  
Acq: 11 May 2017 18:08

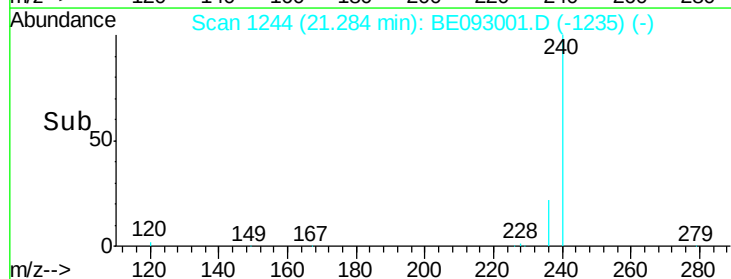
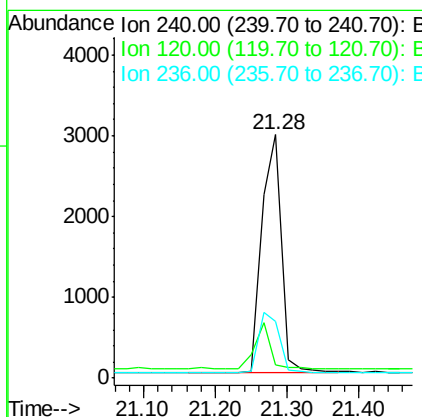
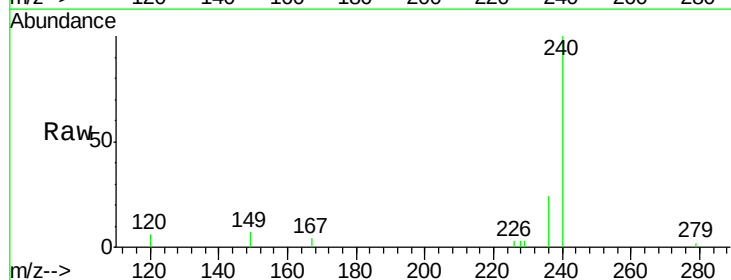
Instrument :  
BNA\_E  
ClientSampleId :  
DUP-0398-170508

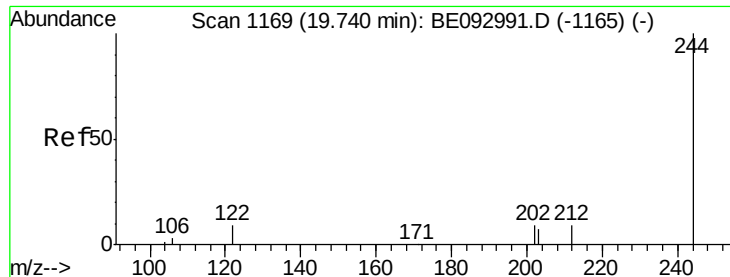
Tgt Ion: 202 Resp: 1652  
Ion Ratio Lower Upper  
202 100  
101 0.0 0.0 0.0  
203 0.0 14.4 21.6#



#27  
Chrysene-d12  
Concen: 0.40 ng  
RT: 21.28 min Scan# 1244  
Delta R.T. 0.00 min  
Lab File: BE093001.D  
Acq: 11 May 2017 18:08

Tgt Ion: 240 Resp: 5711  
Ion Ratio Lower Upper  
240 100  
120 5.5 4.6 7.0  
236 23.6 20.8 31.2





#29

Terphenyl-d14

Concen: 0.64 ng

RT: 19.74 min Scan# 1169

Delta R.T. 0.01 min

Lab File: BE093001.D

Acq: 11 May 2017 18:08

Instrument :

BNA\_E

ClientSampleId :

DUP-0398-170508

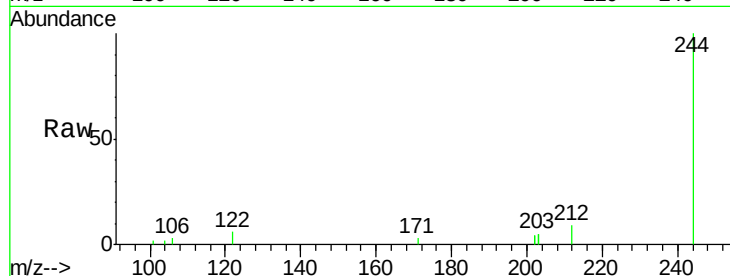
Tgt Ion:244 Resp: 6514

Ion Ratio Lower Upper

244 100

212 9.0 10.6 16.0#

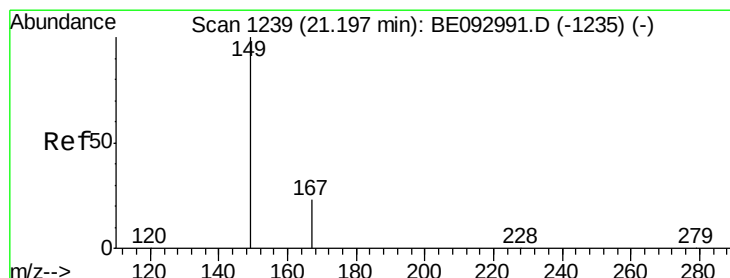
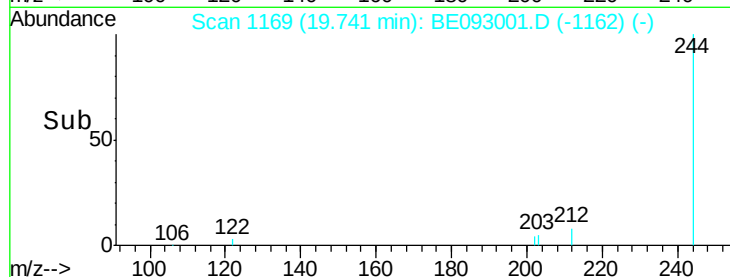
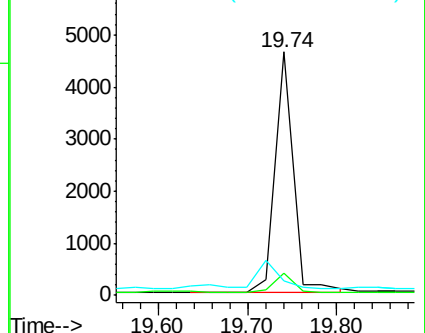
122 5.8 15.4 23.0#



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.35 ng

RT: 21.20 min Scan# 1239

Delta R.T. 0.00 min

Lab File: BE093001.D

Acq: 11 May 2017 18:08

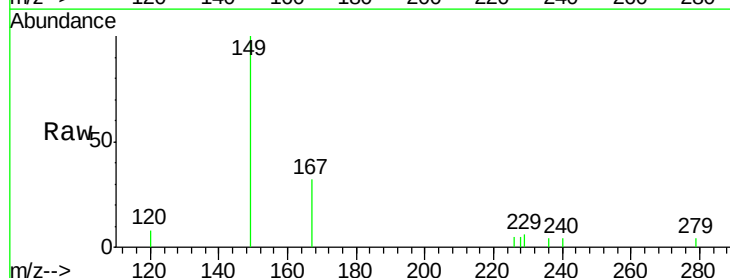
Tgt Ion:149 Resp: 1734

Ion Ratio Lower Upper

149 100

167 28.2 20.1 30.1

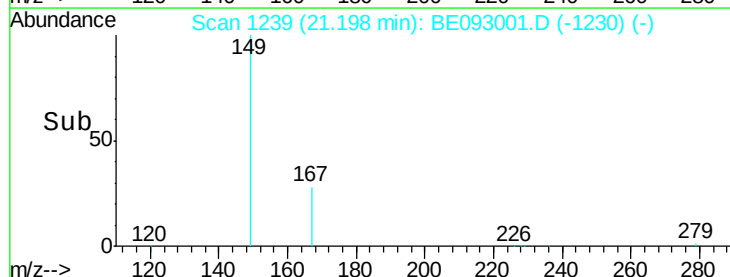
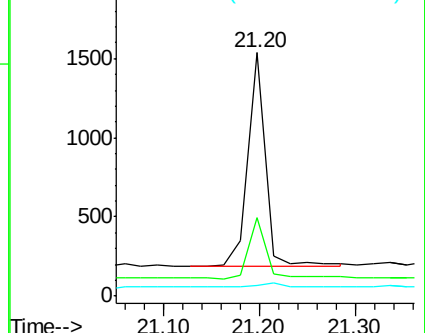
279 2.8 2.2 3.4

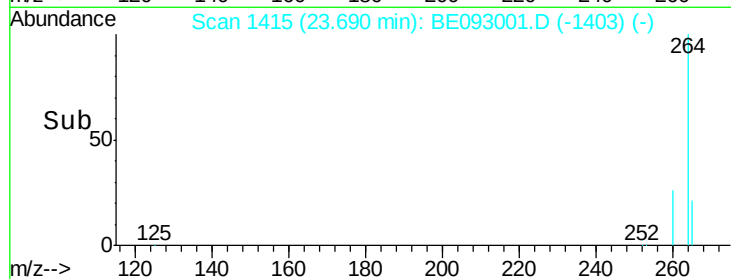
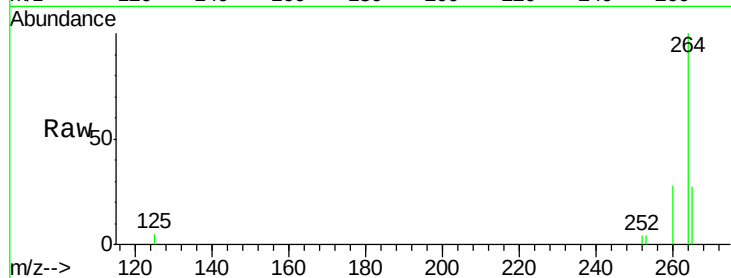
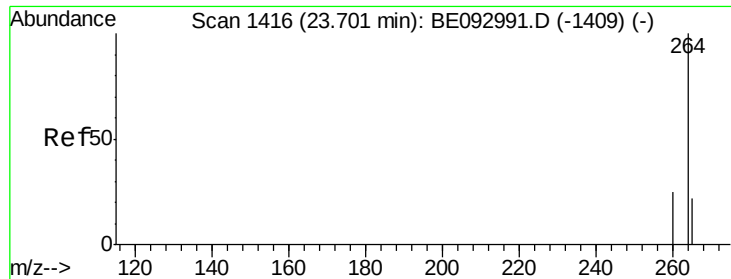


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#34

Perylene-d12

Concen: 0.40 ng

RT: 23.69 min Scan# 1415

Delta R.T. -0.01 min

Lab File: BE093001.D

Acq: 11 May 2017 18:08

Instrument :

BNA\_E

ClientSampleId :

DUP-0398-170508

Tgt Ion: 264 Resp: 4780

Ion Ratio Lower Upper

264 100

260 27.7 21.0 31.4

265 27.1 24.6 36.8

