



BC-052

## BOOSTER MAGNET REPORT

### Results

Date 07/05/2015

Hour 09:05:12

Temperature [°C] 24.0

Number of Measurements 20

Main Coil Current [A]  $(9.9805 \pm 0.0007)$

Trim Coil Current [A] --

Integrated Field [T.m]  $(-3.39103 \pm 0.00007) \times 10^{-3}$

Magnet Center Offset X [ $\mu\text{m}$ ] --

Magnet Center Offset Y [ $\mu\text{m}$ ] --

Roll [mrad]  $(2.7 \pm 0.6) \times 10^{-1}$

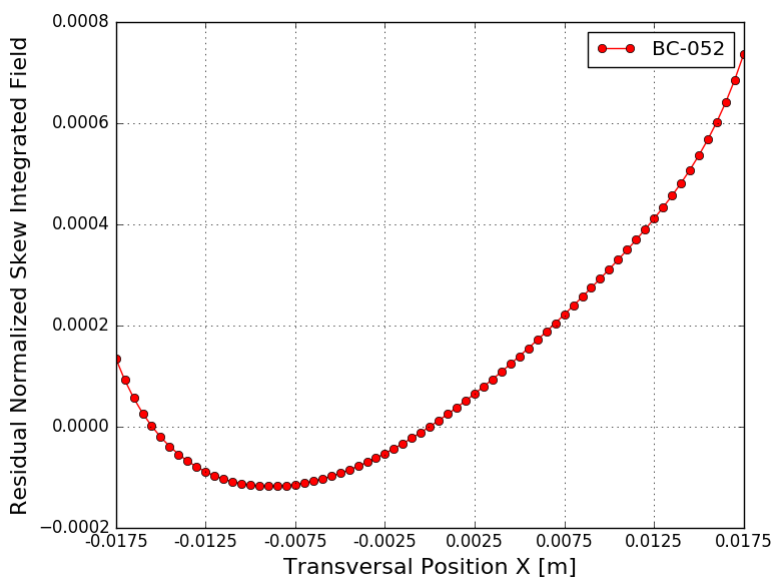
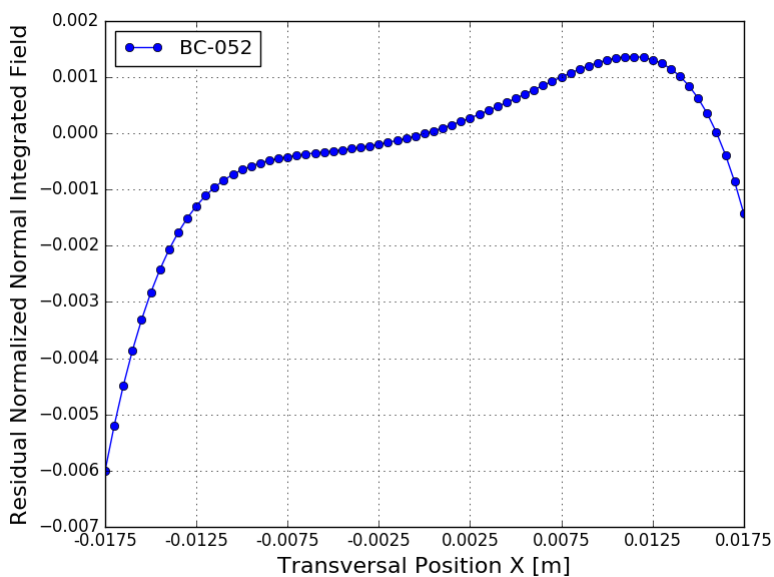
### Electric Parameters

Inductance [mH] 3.110

Voltage [V] 0.756

Resistance [m $\Omega$ ] 84.016

Main Coil Number of Turns 38.5



n	Normalized Normal Multipoles $x=17.5 \text{ mm}$ [T.m <sup>(2-n)</sup> ]	Normalized Skew Multipoles $x=17.5 \text{ mm}$ [T.m <sup>(2-n)</sup> ]
1 (dipole)	$(1 \pm 0)$	$(3 \pm 0) \times 10^{-4}$
2 (quadrupole)	$(2 \pm 0) \times 10^{-3}$	$(4 \pm 0) \times 10^{-4}$
3 (sextupole)	$(2 \pm 0) \times 10^{-3}$	$(3 \pm 0) \times 10^{-4}$
4	$(-5 \pm 0) \times 10^{-5}$	$(-1 \pm 0) \times 10^{-4}$
5	$(-2 \pm 0) \times 10^{-3}$	$(2 \pm 0) \times 10^{-5}$
6	$(8 \pm 0) \times 10^{-4}$	$(-3 \pm 0) \times 10^{-5}$
7	$(-4 \pm 0) \times 10^{-3}$	$(6 \pm 0) \times 10^{-5}$
8	$(3 \pm 0) \times 10^{-5}$	$(3 \pm 0) \times 10^{-5}$
9	$(-7 \pm 0) \times 10^{-5}$	$(2 \pm 0) \times 10^{-6}$
10	$(-1 \pm 0) \times 10^{-4}$	$(7 \pm 0) \times 10^{-6}$
11	$(5 \pm 0) \times 10^{-4}$	$(3 \pm 0) \times 10^{-5}$
12	$(-3 \pm 0) \times 10^{-5}$	$(1 \pm 0) \times 10^{-5}$
13	$(-8 \pm 0) \times 10^{-5}$	$(3 \pm 0) \times 10^{-5}$
14	$(-1 \pm 0) \times 10^{-5}$	$(-2 \pm 0) \times 10^{-5}$
15	$(-6 \pm 0) \times 10^{-5}$	$(4 \pm 0) \times 10^{-6}$