



BQD-011

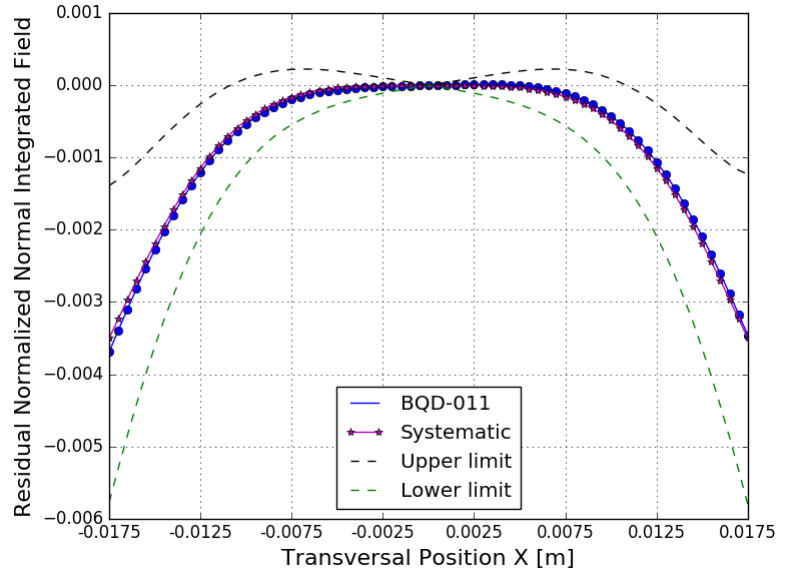
BOOSTER MAGNET REPORT

Results

Date	10/05/2016
Hour	16:22:41
Temperature [°C]	23.6
Number of Measurements	17
Main Coil Current [A]	(31.9624 ± 0.0006)
Trim Coil Current [A]	--
Integrated Gradient [T]	$(-5.29127 \pm 0.00009) \times 10^{-1}$
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(-4.9 ± 0.3)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-53.6 ± 0.2)
Roll [mrad] - ($< \pm 0.8$)	$(-3.4 \pm 0.1) \times 10^{-1}$

Electric Parameters

Inductance [mH]	3.715
Voltage [V]	0.2762
Resistance [$\text{m}\Omega$]	27.62
Main Coil Number of Turns	27.5



n	Normalized Normal Multipoles $x=17.5 \text{ mm}$ [$\text{T}\cdot\text{m}^{(2-n)}$]	Normalized Skew Multipoles $x=17.5 \text{ mm}$ [$\text{T}\cdot\text{m}^{(2-n)}$]
1 (dipole)	$(-2.8 \pm 0.2) \times 10^{-4}$	$(-3.06 \pm 0.01) \times 10^{-3}$
2 (quadrupole)	(1.00000 ± 0.00002)	$(-6.74 \pm 0.10) \times 10^{-4}$
3 (sextupole)	$(1.1 \pm 0.1) \times 10^{-4}$	$(-5.3 \pm 0.1) \times 10^{-4}$
4	$(2 \pm 1) \times 10^{-5}$	$(9 \pm 1) \times 10^{-5}$
5	$(-4.5 \pm 1.0) \times 10^{-5}$	$(6 \pm 2) \times 10^{-5}$
6	$(-4.68 \pm 0.02) \times 10^{-3}$	$(-10.0 \pm 18.8) \times 10^{-6}$
7	$(5 \pm 2) \times 10^{-5}$	$(1.1 \pm 1.0) \times 10^{-5}$
8	$(-7.6 \pm 19.4) \times 10^{-6}$	$(-1 \pm 2) \times 10^{-5}$
9	$(-3.3 \pm 21.5) \times 10^{-6}$	$(7.3 \pm 13.9) \times 10^{-6}$
10	$(1.18 \pm 0.03) \times 10^{-3}$	$(2.5 \pm 22.6) \times 10^{-6}$
11	$(4 \pm 1) \times 10^{-5}$	$(2 \pm 3) \times 10^{-5}$
12	$(2.7 \pm 23.9) \times 10^{-6}$	$(3 \pm 2) \times 10^{-5}$
13	$(-3 \pm 2) \times 10^{-5}$	$(6 \pm 3) \times 10^{-5}$
14	$(-9 \pm 3) \times 10^{-5}$	$(-2 \pm 2) \times 10^{-5}$
15	$(-9.4 \pm 19.3) \times 10^{-6}$	$(1 \pm 4) \times 10^{-5}$

