



BQD-012

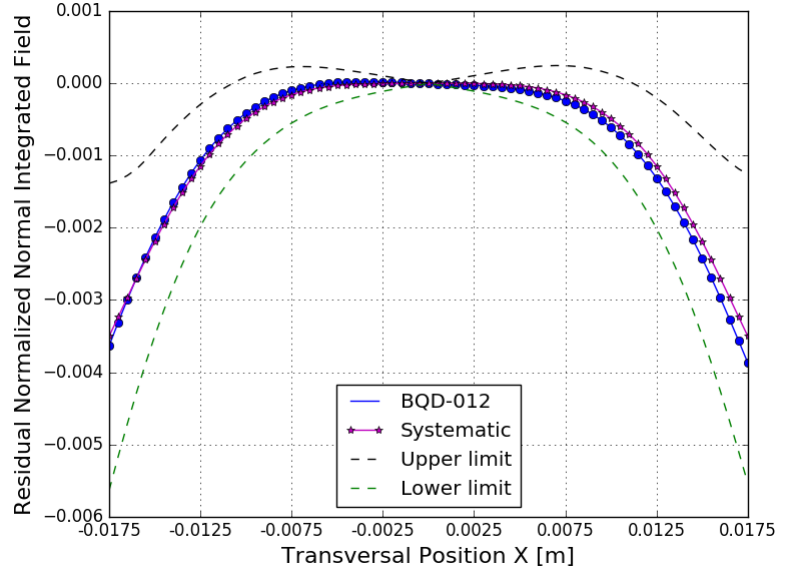
BOOSTER MAGNET REPORT

Results

Date	06/05/2016
Hour	09:38:23
Temperature [°C]	23.5
Number of Measurements	17
Main Coil Current [A]	(31.9701 ± 0.0003)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	$(-5.29007 \pm 0.00006) \times 10^{-1}$
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(-32.76 ± 0.07)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-67.5 ± 0.2)
Roll [mrad] - ($< \pm 0.8$)	$(-4.1 \pm 0.2) \times 10^{-1}$

Electric Parameters

Inductance [mH]	3.728
Voltage [V]	0.302
Resistance [$\text{m}\Omega$]	30.20
Main Coil Number of Turns	27.5



Normalized
Normal
Multipoles
 $x=17.5 \text{ mm}$
[$\text{T}\cdot\text{m}^{(2-n)}$]

Normalized
Skew
Multipoles
 $x=17.5 \text{ mm}$
[$\text{T}\cdot\text{m}^{(2-n)}$]

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)	$(-1.872 \pm 0.004) \times 10^{-3}$	$(-3.86 \pm 0.01) \times 10^{-3}$
2 (quadrupole)	(1.00000 ± 0.00001)	$(-8.1 \pm 0.1) \times 10^{-4}$
3 (sextupole)	$(-1.63 \pm 0.07) \times 10^{-4}$	$(-4.3 \pm 0.2) \times 10^{-4}$
4	$(-6 \pm 1) \times 10^{-5}$	$(9 \pm 2) \times 10^{-5}$
5	$(-4 \pm 1) \times 10^{-5}$	$(10 \pm 2) \times 10^{-5}$
6	$(-4.719 \pm 0.009) \times 10^{-3}$	$(3 \pm 2) \times 10^{-5}$
7	$(2.1 \pm 0.9) \times 10^{-5}$	$(-3 \pm 2) \times 10^{-5}$
8	$(-2.8 \pm 24.4) \times 10^{-6}$	$(-3 \pm 2) \times 10^{-5}$
9	$(1 \pm 1) \times 10^{-5}$	$(4 \pm 3) \times 10^{-5}$
10	$(1.12 \pm 0.02) \times 10^{-3}$	$(7.8 \pm 19.7) \times 10^{-6}$
11	$(4.8 \pm 16.1) \times 10^{-6}$	$(-2 \pm 2) \times 10^{-5}$
12	$(3 \pm 2) \times 10^{-5}$	$(7.6 \pm 20.8) \times 10^{-6}$
13	$(1 \pm 3) \times 10^{-5}$	$(4 \pm 4) \times 10^{-5}$
14	$(-1.2 \pm 0.4) \times 10^{-4}$	$(5 \pm 5) \times 10^{-5}$
15	$(3.3 \pm 11.4) \times 10^{-5}$	$(4.2 \pm 12.6) \times 10^{-5}$

