



BQD-013

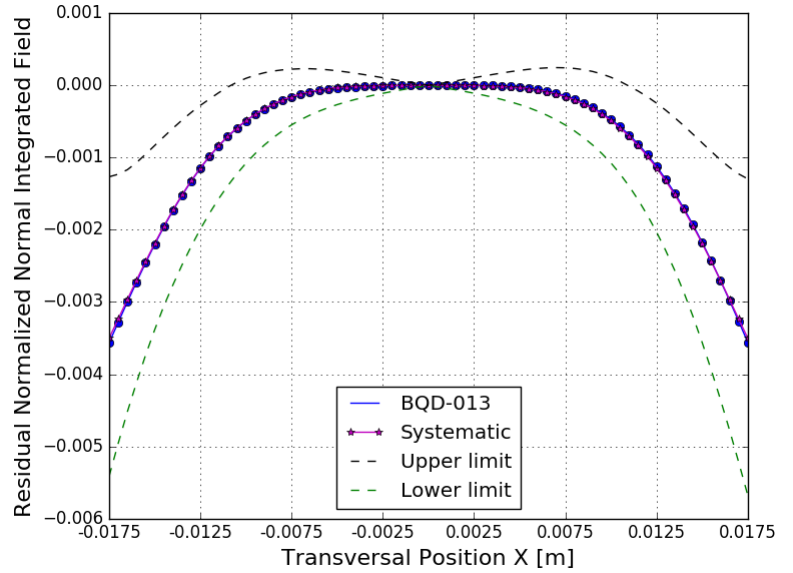
BOOSTER MAGNET REPORT

Results

Date	11/05/2016
Hour	08:54:53
Temperature [°C]	23.6
Number of Measurements	17
Main Coil Current [A]	(31.9640 ± 0.0004)
Trim Coil Current [A]	--
Integrated Gradient [T]	$(-5.29493 \pm 0.00006) \times 10^{-1}$
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(-15.7 ± 0.2)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-36.1 ± 0.3)
Roll [mrad] - ($< \pm 0.8$)	$(-4.0 \pm 0.2) \times 10^{-1}$

Electric Parameters

Inductance [mH]	3.816
Voltage [V]	0.2754
Resistance [m Ω]	27.54
Main Coil Number of Turns	27.5



n	Normalized Normal Multipoles $x=17.5 \text{ mm}$ [T.m ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles $x=17.5 \text{ mm}$ [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	$(-8.96 \pm 0.09) \times 10^{-4}$	$(-2.06 \pm 0.02) \times 10^{-3}$
2 (quadrupole)	(1.00000 ± 0.00001)	$(-8.1 \pm 0.1) \times 10^{-4}$
3 (sextupole)	$(2.9 \pm 0.8) \times 10^{-5}$	$(-8.2 \pm 0.1) \times 10^{-4}$
4	$(1 \pm 2) \times 10^{-5}$	$(1.3 \pm 0.2) \times 10^{-4}$
5	$(-3.6 \pm 0.9) \times 10^{-5}$	$(2 \pm 1) \times 10^{-5}$
6	$(-4.66 \pm 0.02) \times 10^{-3}$	$(-4 \pm 2) \times 10^{-5}$
7	$(4 \pm 3) \times 10^{-5}$	$(-3.8 \pm 16.3) \times 10^{-6}$
8	$(-6 \pm 2) \times 10^{-5}$	$(-3 \pm 3) \times 10^{-5}$
9	$(-2 \pm 2) \times 10^{-5}$	$(-2 \pm 3) \times 10^{-5}$
10	$(1.19 \pm 0.02) \times 10^{-3}$	$(-2 \pm 2) \times 10^{-5}$
11	$(-2.46 \pm 354.38) \times 10^{-7}$	$(-3 \pm 4) \times 10^{-5}$
12	$(6 \pm 5) \times 10^{-5}$	$(1.7 \pm 62.5) \times 10^{-6}$
13	$(3 \pm 7) \times 10^{-5}$	$(8.5 \pm 91.0) \times 10^{-6}$
14	$(-1.0 \pm 0.2) \times 10^{-4}$	$(-6.0 \pm 24.0) \times 10^{-6}$
15	$(-4 \pm 2) \times 10^{-5}$	$(9.3 \pm 36.9) \times 10^{-6}$

