



BQD-019

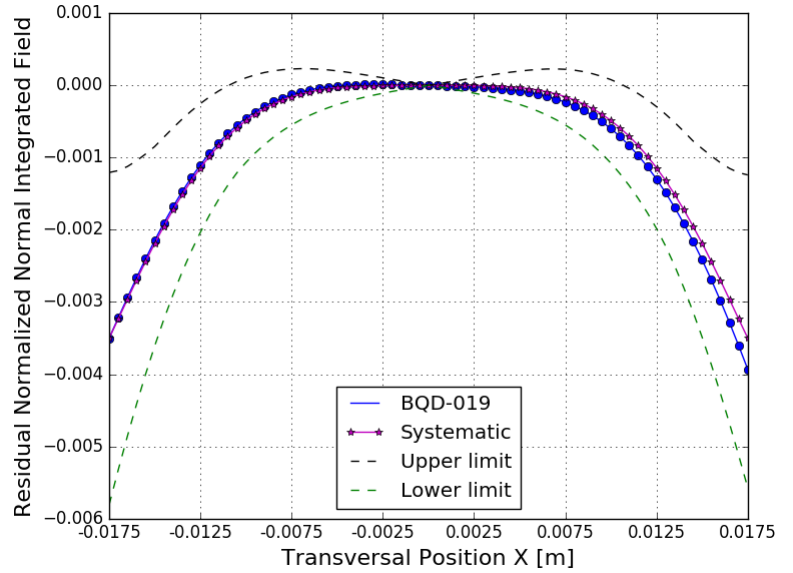
BOOSTER MAGNET REPORT

Results

Date	09/05/2016
Hour	14:51:12
Temperature [°C]	23.9
Number of Measurements	17
Main Coil Current [A]	(31.9655 ± 0.0005)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	$(-5.29857 \pm 0.00004) \times 10^{-1}$
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(-25.1 ± 0.2)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-39.4 ± 0.2)
Roll [mrad] - ($< \pm 0.8$)	$(-1.3 \pm 0.1) \times 10^{-1}$

Electric Parameters

Inductance [mH]	3.766
Voltage [V]	0.2766
Resistance [$\text{m}\Omega$]	27.66
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)	$(-1.43 \pm 0.01) \times 10^{-3}$	$(-2.252 \pm 0.009) \times 10^{-3}$
2 (quadrupole)	(1.000000 ± 0.000007)	$(-2.64 \pm 0.09) \times 10^{-4}$
3 (sextupole)	$(-1.2 \pm 0.2) \times 10^{-4}$	$(-8.0 \pm 0.1) \times 10^{-4}$
4	$(-1.34 \pm 0.09) \times 10^{-4}$	$(7 \pm 2) \times 10^{-5}$
5	$(-5 \pm 2) \times 10^{-5}$	$(5 \pm 2) \times 10^{-5}$
6	$(-4.644 \pm 0.009) \times 10^{-3}$	$(-4 \pm 2) \times 10^{-5}$
7	$(3 \pm 2) \times 10^{-5}$	$(2 \pm 2) \times 10^{-5}$
8	$(8.0 \pm 10.7) \times 10^{-6}$	$(4.6 \pm 13.1) \times 10^{-6}$
9	$(-5 \pm 2) \times 10^{-5}$	$(-2 \pm 2) \times 10^{-5}$
10	$(1.16 \pm 0.02) \times 10^{-3}$	$(7.0 \pm 20.0) \times 10^{-6}$
11	$(3 \pm 2) \times 10^{-5}$	$(-4 \pm 3) \times 10^{-5}$
12	$(-6.8 \pm 16.3) \times 10^{-6}$	$(5 \pm 3) \times 10^{-5}$
13	$(-3 \pm 3) \times 10^{-5}$	$(2 \pm 2) \times 10^{-5}$
14	$(-10 \pm 2) \times 10^{-5}$	$(6.8 \pm 35.8) \times 10^{-6}$
15	$(-3 \pm 4) \times 10^{-5}$	$(3 \pm 4) \times 10^{-5}$

