



BQD-018

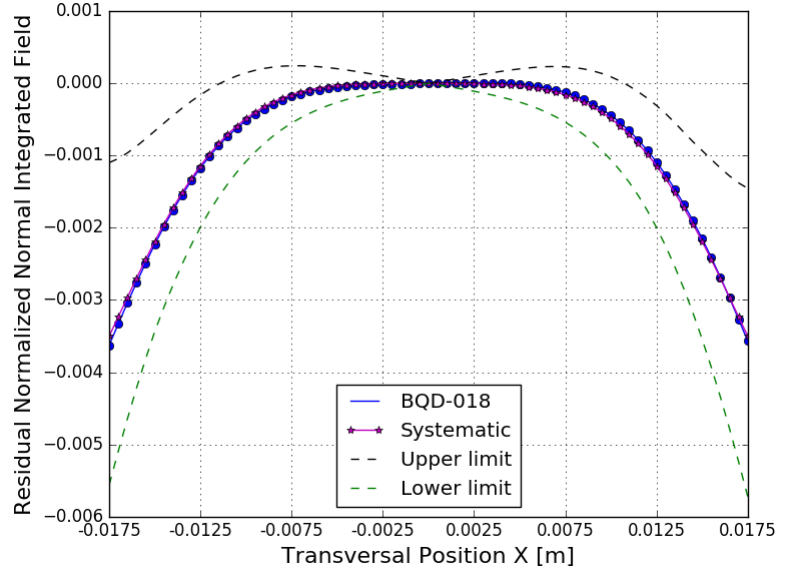
BOOSTER MAGNET REPORT

Results

Date	10/05/2016
Hour	11:57:47
Temperature [°C]	23.6
Number of Measurements	17
Main Coil Current [A]	(31.9597 ± 0.0005)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	$(-5.30154 \pm 0.00005) \times 10^{-1}$
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(-24.7 ± 0.2)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-41.3 ± 0.3)
Roll [mrad] - ($< \pm 0.8$)	$(-1.6 \pm 0.2) \times 10^{-1}$

Electric Parameters

Inductance [mH]	3.778
Voltage [V]	0.2785
Resistance [$\text{m}\Omega$]	27.85
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)	$(-1.41 \pm 0.01) \times 10^{-3}$	$(-2.36 \pm 0.02) \times 10^{-3}$
2 (quadrupole)	(1.000000 ± 0.000010)	$(-3.2 \pm 0.1) \times 10^{-4}$
3 (sextupole)	$(8.1 \pm 0.9) \times 10^{-5}$	$(-8.0 \pm 0.1) \times 10^{-4}$
4	$(6.4 \pm 11.3) \times 10^{-6}$	$(9 \pm 2) \times 10^{-5}$
5	$(-7 \pm 2) \times 10^{-5}$	$(9 \pm 2) \times 10^{-5}$
6	$(-4.61 \pm 0.01) \times 10^{-3}$	$(-3 \pm 1) \times 10^{-5}$
7	$(7 \pm 1) \times 10^{-5}$	$(4 \pm 2) \times 10^{-5}$
8	$(-8 \pm 2) \times 10^{-5}$	$(-2 \pm 2) \times 10^{-5}$
9	$(-7 \pm 2) \times 10^{-5}$	$(-6.5 \pm 19.9) \times 10^{-6}$
10	$(1.17 \pm 0.01) \times 10^{-3}$	$(2 \pm 2) \times 10^{-5}$
11	$(4 \pm 2) \times 10^{-5}$	$(-3 \pm 3) \times 10^{-5}$
12	$(-3 \pm 3) \times 10^{-5}$	$(2 \pm 2) \times 10^{-5}$
13	$(-4 \pm 1) \times 10^{-5}$	$(-4 \pm 1) \times 10^{-5}$
14	$(-6 \pm 3) \times 10^{-5}$	$(1 \pm 2) \times 10^{-5}$
15	$(2 \pm 2) \times 10^{-5}$	$(-3 \pm 2) \times 10^{-5}$

