



BQF-015

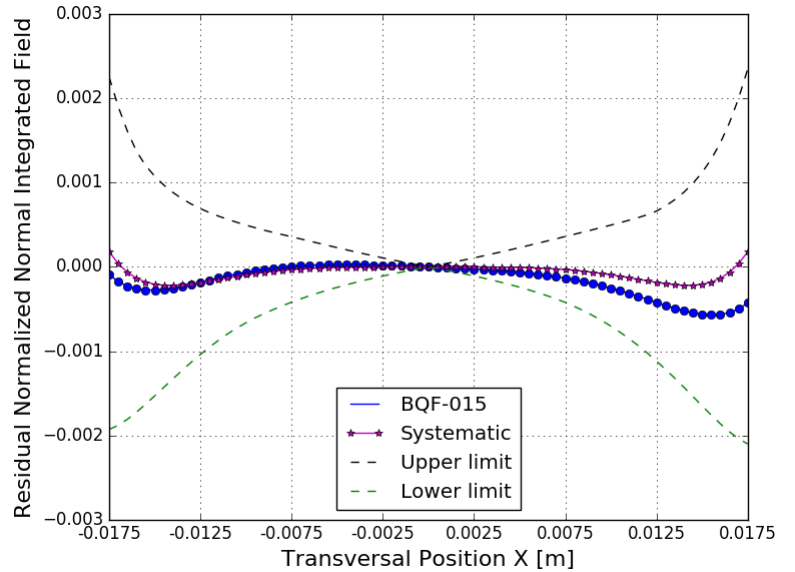
BOOSTER MAGNET REPORT

Results

Date	30/03/2016
Hour	10:06:08
Temperature [°C]	21.1
Number of Measurements	17
Main Coil Current [A]	(130.0126 ± 0.0004)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.81691 ± 0.00001)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(7.18 ± 0.07)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-27.58 ± 0.06)
Roll [mrad] - ($< \pm 0.8$)	$(-4.93 \pm 0.06) \times E-1$

Electric Parameters

Inductance [mH]	8.240
Voltage [V]	0.486
Resistance [$\text{m}\Omega$]	48.60
Main Coil Number of Turns	26.25



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)	$(4.10 \pm 0.04) \times E-4$	$(-1.576 \pm 0.003) \times E-3$
2 (quadrupole)	(1.000000 ± 0.000002)	$(-9.86 \pm 0.04) \times E-4$
3 (sextupole)	$(-1.55 \pm 0.04) \times E-4$	$(-4.09 \pm 0.03) \times E-4$
4	$(-1.42 \pm 0.05) \times E-4$	$(9.2 \pm 0.5) \times E-5$
5	$(-4.2 \pm 0.4) \times E-5$	$(-3.0 \pm 0.5) \times E-5$
6	$(-1.155 \pm 0.006) \times E-3$	$(-8 \pm 6) \times E-6$
7	$(4.6 \pm 0.6) \times E-5$	$(2.2 \pm 0.6) \times E-5$
8	$(-3.4 \pm 0.4) \times E-5$	$(-2.9 \pm 0.6) \times E-5$
9	$(-2.3 \pm 0.6) \times E-5$	$(-2.4 \pm 0.4) \times E-5$
10	$(1.147 \pm 0.007) \times E-3$	$(-3.3 \pm 0.6) \times E-5$
11	$(1.8 \pm 0.5) \times E-5$	$(9 \pm 6) \times E-6$
12	$(-3 \pm 7) \times E-6$	$(1.7 \pm 0.5) \times E-5$
13	$(-1.6 \pm 0.7) \times E-5$	$(-4 \pm 6) \times E-6$
14	$(-7.4 \pm 0.5) \times E-5$	$(-1.9 \pm 0.7) \times E-5$
15	$(3 \pm 6) \times E-6$	$(-6 \pm 9) \times E-6$

