



BQF-051

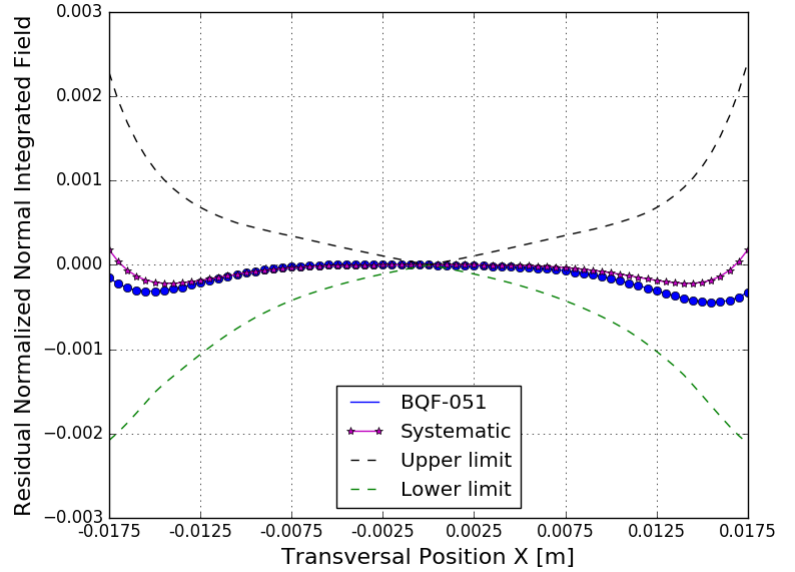
BOOSTER MAGNET REPORT

Results

Date	04/04/2016
Hour	09:43:06
Temperature [°C]	21.3
Number of Measurements	17
Main Coil Current [A]	(130.0201 ± 0.0004)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.82511 ± 0.00002)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(14.05 ± 0.06)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-9.63 ± 0.05)
Roll [mrad] - ($< \pm 0.8$)	$(-4.21 \pm 0.04) \times E-1$

Electric Parameters

Inductance [mH]	8.400
Voltage [V]	0.484
Resistance [$\text{m}\Omega$]	48.40
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)	$(8.03 \pm 0.03) \times E-4$	$(-5.50 \pm 0.03) \times E-4$
2 (quadrupole)	(1.000000 ± 0.000003)	$(-8.43 \pm 0.03) \times E-4$
3 (sextupole)	$(-5.0 \pm 0.5) \times E-5$	$(-9.79 \pm 0.04) \times E-4$
4	$(-3.1 \pm 0.4) \times E-5$	$(5.1 \pm 0.6) \times E-5$
5	$(-4.4 \pm 0.6) \times E-5$	$(4.1 \pm 0.5) \times E-5$
6	$(-1.213 \pm 0.008) \times E-3$	$(-1.3 \pm 0.4) \times E-5$
7	$(3.2 \pm 0.8) \times E-5$	$(2 \pm 5) \times E-6$
8	$(-9 \pm 5) \times E-6$	$(-3.7 \pm 0.6) \times E-5$
9	$(-5 \pm 8) \times E-6$	$(1.5 \pm 0.7) \times E-5$
10	$(1.11 \pm 0.01) \times E-3$	$(-6 \pm 6) \times E-6$
11	$(-1.1 \pm 0.8) \times E-5$	$(-3.7 \pm 0.7) \times E-5$
12	$(-8.6 \pm 14.7) \times E-6$	$(-1 \pm 1) \times E-5$
13	$(4 \pm 6) \times E-6$	$(2.0 \pm 0.9) \times E-5$
14	$(-9 \pm 1) \times E-5$	$(6 \pm 6) \times E-6$
15	$(-10 \pm 5) \times E-6$	$(-3 \pm 1) \times E-5$

