



BQF-027

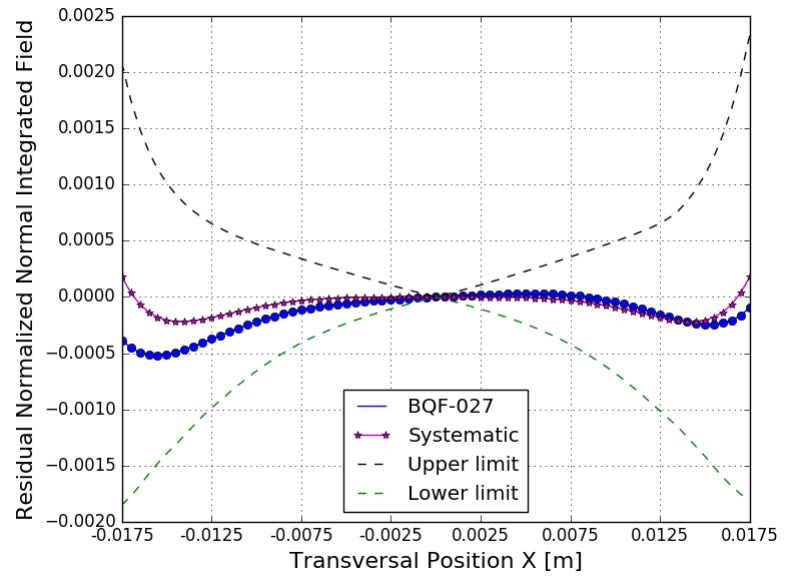
BOOSTER MAGNET REPORT

Results

Date	11/04/2016
Hour	15:11:36
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	(130.0071 ± 0.0004)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.821660 ± 0.000008)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(20.02 ± 0.06)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-39.30 ± 0.07)
Roll [mrad] - ($< \pm 0.8$)	$(-3.13 \pm 0.04) \times E-1$

Electric Parameters

Inductance [mH]	8.311
Voltage [V]	0.480
Resistance [$\text{m}\Omega$]	48.00
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)	$(1.144 \pm 0.003) \times E-3$	$(-2.246 \pm 0.004) \times E-3$
2 (quadrupole)	(1.000000 ± 0.000002)	$(-6.26 \pm 0.02) \times E-4$
3 (sextupole)	$(1.53 \pm 0.03) \times E-4$	$(-2.88 \pm 0.04) \times E-4$
4	$(-5.6 \pm 0.2) \times E-5$	$(1.43 \pm 0.05) \times E-4$
5	$(-4 \pm 3) \times E-6$	$(-2.6 \pm 0.3) \times E-5$
6	$(-1.176 \pm 0.004) \times E-3$	$(8.5 \pm 29.1) \times E-7$
7	$(3.0 \pm 0.3) \times E-5$	$(-2.9 \pm 0.4) \times E-5$
8	$(-1.2 \pm 0.5) \times E-5$	$(-5.1 \pm 0.4) \times E-5$
9	$(-2.0 \pm 0.4) \times E-5$	$(5 \pm 6) \times E-6$
10	$(1.090 \pm 0.004) \times E-3$	$(-1 \pm 6) \times E-6$
11	$(8 \pm 5) \times E-6$	$(-1.6 \pm 0.5) \times E-5$
12	$(3 \pm 6) \times E-6$	$(1.1 \pm 0.6) \times E-5$
13	$(-1.6 \pm 0.3) \times E-5$	$(1.9 \pm 0.5) \times E-5$
14	$(-9.1 \pm 0.4) \times E-5$	$(-9 \pm 5) \times E-6$
15	$(-6 \pm 4) \times E-6$	$(-1.2 \pm 0.6) \times E-5$

