



BQF-029

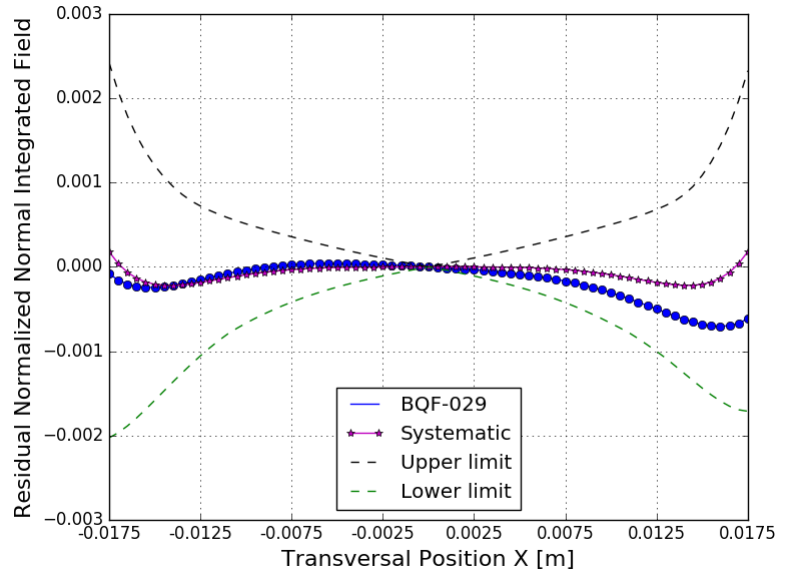
BOOSTER MAGNET REPORT

Results

Date	12/04/2016
Hour	10:34:12
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	(130.0188 ± 0.0004)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.82527 ± 0.00001)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(5.47 ± 0.03)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-37.29 ± 0.09)
Roll [mrad] - ($< \pm 0.8$)	$(-3.47 \pm 0.03) \times E-1$

Electric Parameters

Inductance [mH]	8.310
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)	$(3.13 \pm 0.02) \times E-4$	$(-2.131 \pm 0.005) \times E-3$
2 (quadrupole)	(1.000000 ± 0.000002)	$(-6.94 \pm 0.02) \times E-4$
3 (sextupole)	$(-2.14 \pm 0.03) \times E-4$	$(-5.50 \pm 0.02) \times E-4$
4	$(-1.75 \pm 0.03) \times E-4$	$(1.24 \pm 0.04) \times E-4$
5	$(-7.6 \pm 0.4) \times E-5$	$(1 \pm 3) \times E-6$
6	$(-1.183 \pm 0.004) \times E-3$	$(-4.9 \pm 0.4) \times E-5$
7	$(5.0 \pm 0.6) \times E-5$	$(-1.4 \pm 49.1) \times E-7$
8	$(-1.8 \pm 0.3) \times E-5$	$(-3.4 \pm 0.4) \times E-5$
9	$(-3.1 \pm 0.4) \times E-5$	$(2.9 \pm 38.8) \times E-7$
10	$(1.117 \pm 0.004) \times E-3$	$(-2.3 \pm 0.3) \times E-5$
11	$(1.2 \pm 0.3) \times E-5$	$(-1.5 \pm 0.6) \times E-5$
12	$(-5 \pm 5) \times E-6$	$(1.2 \pm 0.3) \times E-5$
13	$(-2.6 \pm 0.4) \times E-5$	$(7 \pm 4) \times E-6$
14	$(-8.6 \pm 0.5) \times E-5$	$(-3.6 \pm 0.4) \times E-5$
15	$(2.0 \pm 0.6) \times E-5$	$(-1.8 \pm 0.6) \times E-5$

