



BQF-048

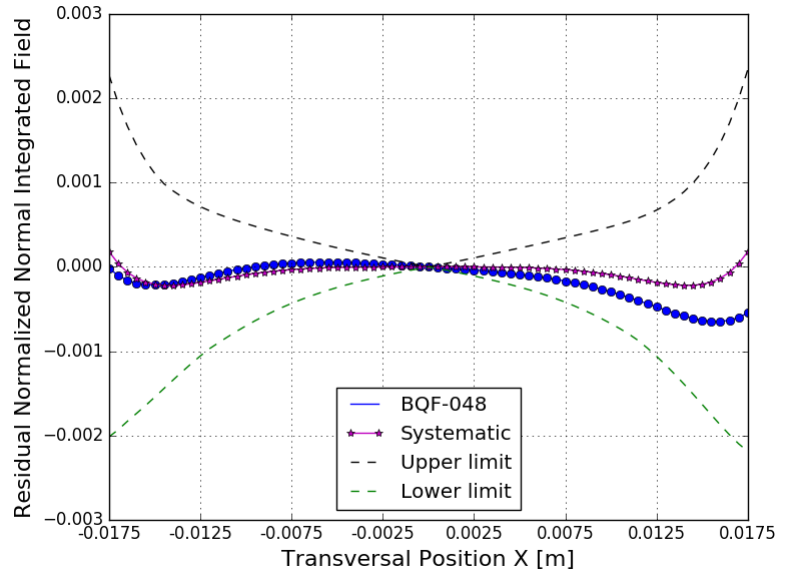
BOOSTER MAGNET REPORT

Results

Date	01/04/2016
Hour	14:37:37
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	(130.0059 ± 0.0005)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.82967 ± 0.00002)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(12.38 ± 0.07)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-18.3 ± 0.1)
Roll [mrad] - ($< \pm 0.8$)	$(-5.13 \pm 0.03) \times E-1$

Electric Parameters

Inductance [mH]	8.368
Voltage [V]	0.474
Resistance [$\text{m}\Omega$]	47.40
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)	$(7.07 \pm 0.04) \times E-4$	$(-1.049 \pm 0.007) \times E-3$
2 (quadrupole)	(1.000000 ± 0.000004)	$(-1.027 \pm 0.002) \times E-3$
3 (sextupole)	$(-2.48 \pm 0.05) \times E-4$	$(-9.96 \pm 0.04) \times E-4$
4	$(-1.20 \pm 0.02) \times E-4$	$(1.33 \pm 0.04) \times E-4$
5	$(-9 \pm 2) \times E-6$	$(5.7 \pm 0.6) \times E-5$
6	$(-1.200 \pm 0.004) \times E-3$	$(-1.2 \pm 0.2) \times E-5$
7	$(3.5 \pm 0.3) \times E-5$	$(-3 \pm 5) \times E-6$
8	$(-6 \pm 3) \times E-6$	$(-5.8 \pm 0.3) \times E-5$
9	$(2 \pm 4) \times E-6$	$(1.6 \pm 0.5) \times E-5$
10	$(1.122 \pm 0.005) \times E-3$	$(1.9 \pm 0.4) \times E-5$
11	$(-2.3 \pm 0.4) \times E-5$	$(-2.4 \pm 0.4) \times E-5$
12	$(2 \pm 4) \times E-6$	$(-2.2 \pm 0.5) \times E-5$
13	$(4 \pm 3) \times E-6$	$(9 \pm 3) \times E-6$
14	$(-8.1 \pm 0.5) \times E-5$	$(7 \pm 4) \times E-6$
15	$(-2.5 \pm 0.7) \times E-5$	$(-1 \pm 4) \times E-6$

