



BQF-040

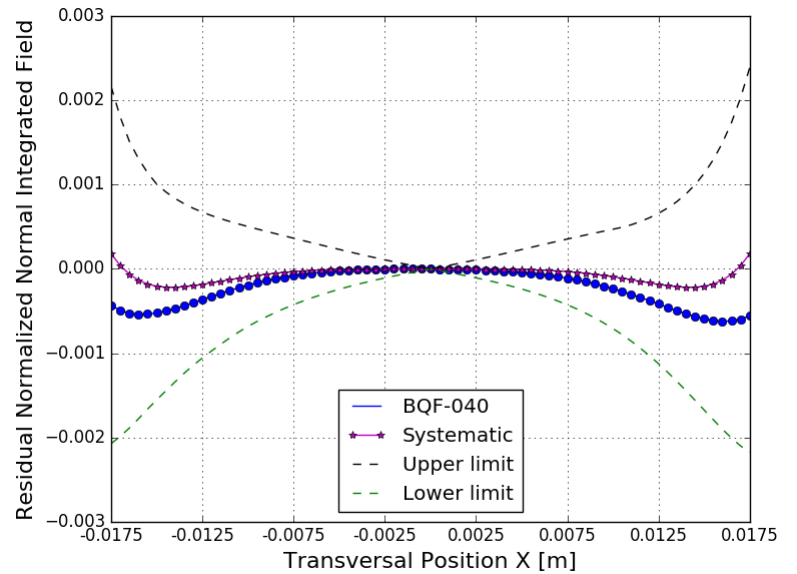
BOOSTER MAGNET REPORT

Results

Date	13/04/2016
Hour	09:18:33
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	(130.0270 ± 0.0003)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.821599 ± 0.000008)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(2.27 ± 0.03)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-32.26 ± 0.09)
Roll [mrad] - ($< \pm 0.8$)	$(-4.13 \pm 0.05) \times E-1$

Electric Parameters

Inductance [mH]	8.277
Voltage [V]	0.482
Resistance [$\text{m}\Omega$]	48.20
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)	$(1.30 \pm 0.02) \times E-4$	$(-1.844 \pm 0.005) \times E-3$
2 (quadrupole)	(1.000000 ± 0.000002)	$(-8.26 \pm 0.03) \times E-4$
3 (sextupole)	$(-3.2 \pm 0.3) \times E-5$	$(-6.44 \pm 0.05) \times E-4$
4	$(-3.05 \pm 0.02) \times E-4$	$(9.7 \pm 0.6) \times E-5$
5	$(-2.3 \pm 0.4) \times E-5$	$(2.3 \pm 0.5) \times E-5$
6	$(-1.172 \pm 0.004) \times E-3$	$(-1.8 \pm 0.4) \times E-5$
7	$(4.2 \pm 0.5) \times E-5$	$(1.6 \pm 0.7) \times E-5$
8	$(-1.3 \pm 0.4) \times E-5$	$(-1.9 \pm 0.7) \times E-5$
9	$(-3.6 \pm 0.3) \times E-5$	$(8 \pm 6) \times E-6$
10	$(1.104 \pm 0.005) \times E-3$	$(-1.9 \pm 0.5) \times E-5$
11	$(1.7 \pm 0.4) \times E-5$	$(-9 \pm 6) \times E-6$
12	$(-1.2 \pm 0.6) \times E-5$	$(3.0 \pm 0.7) \times E-5$
13	$(-3.8 \pm 0.5) \times E-5$	$(1.5 \pm 0.5) \times E-5$
14	$(-9.7 \pm 0.7) \times E-5$	$(-2.3 \pm 0.8) \times E-5$
15	$(1.0 \pm 0.5) \times E-5$	$(-8 \pm 5) \times E-6$

