



BQF-034

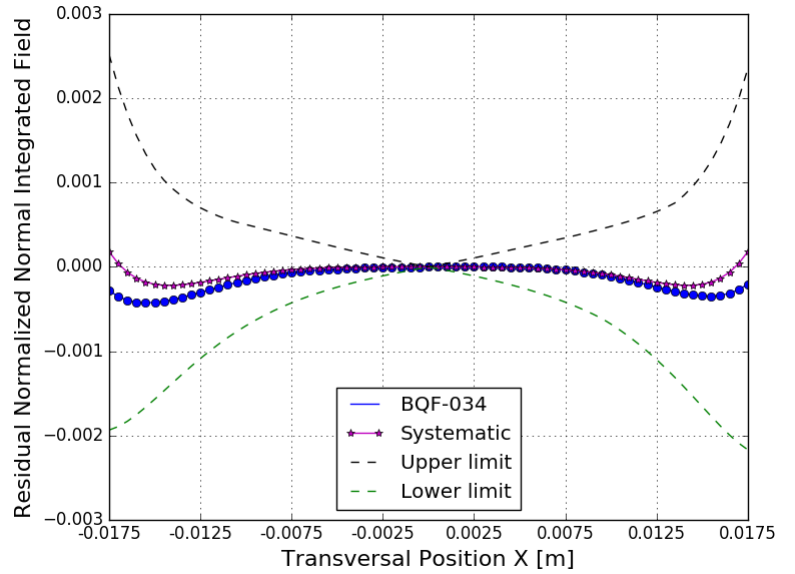
BOOSTER MAGNET REPORT

Results

Date	14/04/2016
Hour	08:11:37
Temperature [°C]	21.0
Number of Measurements	17
Main Coil Current [A]	(130.0267 ± 0.0005)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.82638 ± 0.00001)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(9.62 ± 0.05)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-12.65 ± 0.08)
Roll [mrad] - ($< \pm 0.8$)	$(-3.51 \pm 0.05) \times E-1$

Electric Parameters

Inductance [mH]	8.286
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)	$(5.50 \pm 0.03) \times E-4$	$(-7.23 \pm 0.04) \times E-4$
2 (quadrupole)	(1.000000 ± 0.000003)	$(-7.02 \pm 0.03) \times E-4$
3 (sextupole)	$(3.6 \pm 0.3) \times E-5$	$(-8.89 \pm 0.02) \times E-4$
4	$(-7.9 \pm 0.2) \times E-5$	$(1.30 \pm 0.06) \times E-4$
5	$(5 \pm 4) \times E-6$	$(3.7 \pm 0.5) \times E-5$
6	$(-1.151 \pm 0.004) \times E-3$	$(-2.1 \pm 0.5) \times E-5$
7	$(4.0 \pm 0.3) \times E-5$	$(2.4 \pm 0.5) \times E-5$
8	$(-2.6 \pm 0.4) \times E-5$	$(-2.4 \pm 0.3) \times E-5$
9	$(-3.8 \pm 0.4) \times E-5$	$(1.9 \pm 0.6) \times E-5$
10	$(1.104 \pm 0.004) \times E-3$	$(-1.8 \pm 0.6) \times E-5$
11	$(1.3 \pm 0.6) \times E-5$	$(-1.3 \pm 0.5) \times E-5$
12	$(-4 \pm 3) \times E-6$	$(3.1 \pm 0.4) \times E-5$
13	$(-3.1 \pm 0.3) \times E-5$	$(1.2 \pm 0.6) \times E-5$
14	$(-8.7 \pm 0.7) \times E-5$	$(-2.2 \pm 0.3) \times E-5$
15	$(1.4 \pm 0.5) \times E-5$	$(-7 \pm 5) \times E-6$

