



BQF-025

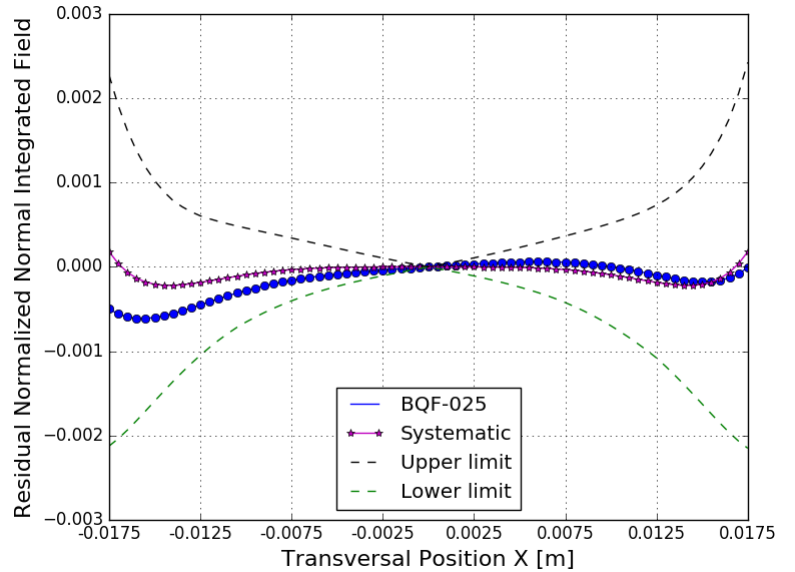
BOOSTER MAGNET REPORT

Results

Date	31/03/2016
Hour	14:53:40
Temperature [°C]	21.3
Number of Measurements	17
Main Coil Current [A]	(130.0002 ± 0.0004)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.828261 ± 0.000009)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(49.39 ± 0.06)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-19.80 ± 0.04)
Roll [mrad] - ($< \pm 0.8$)	$(-4.11 \pm 0.04) \times E-1$

Electric Parameters

Inductance [mH]	8.270
Voltage [V]	0.481
Resistance [$\text{m}\Omega$]	48.10
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)	$(2.822 \pm 0.004) \times E-3$	$(-1.132 \pm 0.002) \times E-3$
2 (quadrupole)	(1.000000 ± 0.000002)	$(-8.22 \pm 0.02) \times E-4$
3 (sextupole)	$(2.54 \pm 0.03) \times E-4$	$(-8.25 \pm 0.03) \times E-4$
4	$(-7.3 \pm 0.4) \times E-5$	$(8.7 \pm 0.5) \times E-5$
5	$(-3.5 \pm 0.3) \times E-5$	$(2.5 \pm 0.3) \times E-5$
6	$(-1.183 \pm 0.004) \times E-3$	$(-2.5 \pm 0.4) \times E-5$
7	$(4.9 \pm 0.5) \times E-5$	$(1.6 \pm 0.4) \times E-5$
8	$(-1.5 \pm 0.5) \times E-5$	$(-1.9 \pm 0.3) \times E-5$
9	$(-1.8 \pm 0.4) \times E-5$	$(1.2 \pm 0.5) \times E-5$
10	$(1.114 \pm 0.005) \times E-3$	$(-2.6 \pm 0.5) \times E-5$
11	$(1.5 \pm 0.5) \times E-5$	$(-2.0 \pm 0.4) \times E-5$
12	$(5 \pm 5) \times E-6$	$(2.2 \pm 0.6) \times E-5$
13	$(-3.0 \pm 0.5) \times E-5$	$(1.6 \pm 0.6) \times E-5$
14	$(-1.01 \pm 0.06) \times E-4$	$(-2.2 \pm 0.8) \times E-5$
15	$(1.0 \pm 0.4) \times E-5$	$(-4 \pm 7) \times E-6$

