



BQF-022

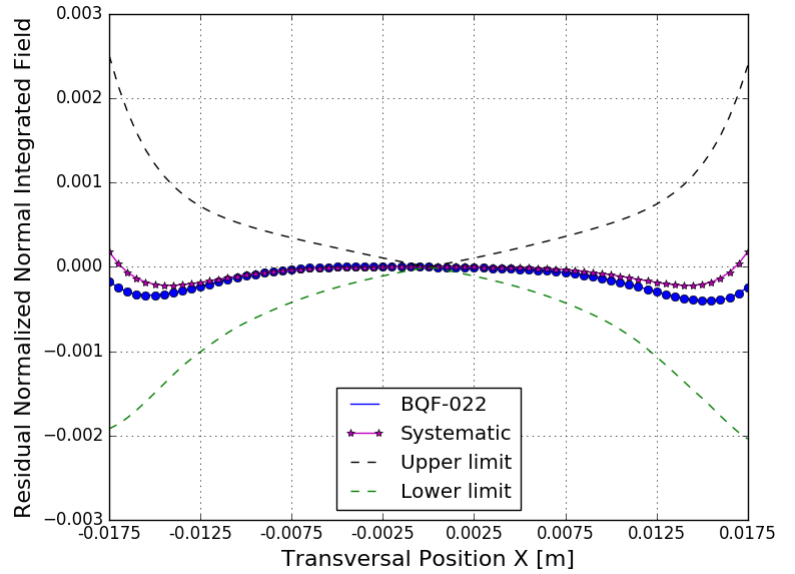
BOOSTER MAGNET REPORT

Results

Date	11/04/2016
Hour	10:23:32
Temperature [°C]	21.0
Number of Measurements	17
Main Coil Current [A]	(129.9993 ± 0.0003)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.83000 ± 0.00010)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(14.4 ± 0.5)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-31.3 ± 0.2)
Roll [mrad] - ($< \pm 0.8$)	$(-4.42 \pm 0.08) \times E-1$

Electric Parameters

Inductance [mH]	8.262
Voltage [V]	0.490
Resistance [$\text{m}\Omega$]	49.00
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)	$(8.3 \pm 0.3) \times E-4$	$(-1.79 \pm 0.01) \times E-3$
2 (quadrupole)	(1.00000 ± 0.00002)	$(-8.84 \pm 0.05) \times E-4$
3 (sextupole)	$(-4 \pm 2) \times E-5$	$(-6.5 \pm 0.2) \times E-4$
4	$(-5 \pm 1) \times E-5$	$(9 \pm 1) \times E-5$
5	$(-2 \pm 2) \times E-5$	$(3 \pm 2) \times E-5$
6	$(-1.19 \pm 0.01) \times E-3$	$(-5.0 \pm 15.1) \times E-6$
7	$(6 \pm 1) \times E-5$	$(5.1 \pm 12.1) \times E-6$
8	$(-5.90 \pm 110.97) \times E-7$	$(-3 \pm 1) \times E-5$
9	$(-4 \pm 1) \times E-5$	$(-8.1 \pm 13.4) \times E-6$
10	$(1.11 \pm 0.01) \times E-3$	$(-1.7 \pm 1.0) \times E-5$
11	$(2 \pm 1) \times E-5$	$(-9.0 \pm 11.6) \times E-6$
12	$(2 \pm 1) \times E-5$	$(8 \pm 9) \times E-6$
13	$(-3.3 \pm 14.5) \times E-6$	$(1.3 \pm 0.8) \times E-5$
14	$(-8.7 \pm 0.6) \times E-5$	$(-7 \pm 7) \times E-6$
15	$(-3 \pm 8) \times E-6$	$(4 \pm 8) \times E-6$

