



# BQF-009

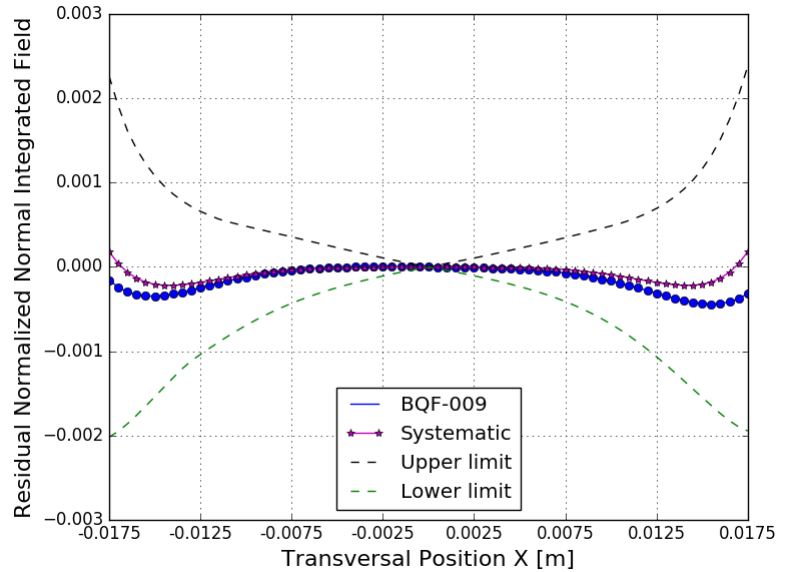
## BOOSTER MAGNET REPORT

### Results

Date	05/04/2016
Hour	09:05:58
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	$(130.0191 \pm 0.0003)$
Trim Coil Current [A]	$(0 \pm 0)$
Integrated Gradient [T]	$(-4.82924 \pm 0.00002)$
Magnet Center Offset X [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(14.81 \pm 0.07)$
Magnet Center Offset Y [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-12.9 \pm 0.1)$
Roll [mrad] - ( $< \pm 0.8$ )	$(-4.79 \pm 0.04) \times E-1$

### Electric Parameters

Inductance [mH]	8.259
Voltage [V]	0.486
Resistance [ $\text{m}\Omega$ ]	48.60
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)	$(8.46 \pm 0.04) \times E-4$	$(-7.35 \pm 0.06) \times E-4$
2 (quadrupole)	$(1.000000 \pm 0.000005)$	$(-9.59 \pm 0.03) \times E-4$
3 (sextupole)	$(-3.4 \pm 0.8) \times E-5$	$(-7.74 \pm 0.07) \times E-4$
4	$(-9.3 \pm 0.6) \times E-5$	$(1.15 \pm 0.08) \times E-4$
5	$(-3.1 \pm 0.8) \times E-5$	$(3.4 \pm 0.7) \times E-5$
6	$(-1.177 \pm 0.009) \times E-3$	$(2 \pm 7) \times E-6$
7	$(3.2 \pm 0.6) \times E-5$	$(-9 \pm 7) \times E-6$
8	$(-6.22 \pm 113.98) \times E-7$	$(-5.1 \pm 0.5) \times E-5$
9	$(-1 \pm 2) \times E-5$	$(2.1 \pm 0.5) \times E-5$
10	$(1.11 \pm 0.01) \times E-3$	$(2.2 \pm 0.7) \times E-5$
11	$(-3 \pm 1) \times E-5$	$(-2.8 \pm 0.8) \times E-5$
12	$(1.7 \pm 0.9) \times E-5$	$(-8 \pm 8) \times E-6$
13	$(2.7 \pm 0.9) \times E-5$	$(1.9 \pm 0.9) \times E-5$
14	$(-9.8 \pm 0.8) \times E-5$	$(3 \pm 8) \times E-6$
15	$(-3.5 \pm 0.7) \times E-5$	$(7 \pm 7) \times E-6$

