



# BQF-012

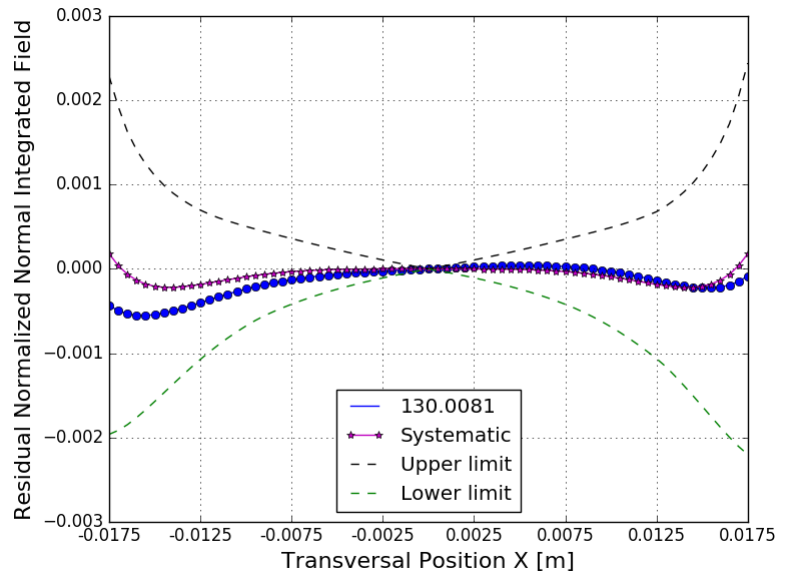
## BOOSTER MAGNET REPORT

### Results

Date	08/04/2016
Hour	16:59:37
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	$(130.0081 \pm 0.0003)$
Trim Coil Current [A]	$(0 \pm 0)$
Integrated Gradient [T]	$(-4.825749 \pm 0.000007)$
Magnet Center Offset X [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(19.05 \pm 0.03)$
Magnet Center Offset Y [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-48.05 \pm 0.09)$
Roll [mrad] - ( $< \pm 0.8$ )	$(-5.83 \pm 0.05) \times E-1$

### Electric Parameters

Inductance [mH]	8.286
Voltage [V]	0.485
Resistance [ $\text{m}\Omega$ ]	3.731
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)	$(1.088 \pm 0.002) \times E-3$	$(-2.746 \pm 0.005) \times E-3$
2 (quadrupole)	$(1.000000 \pm 0.000002)$	$(-1.165 \pm 0.003) \times E-3$
3 (sextupole)	$(1.80 \pm 0.03) \times E-4$	$(-4.8 \pm 0.4) \times E-5$
4	$(-5.8 \pm 0.4) \times E-5$	$(1.50 \pm 0.06) \times E-4$
5	$(-2.0 \pm 28.5) \times E-7$	$(-1.03 \pm 0.07) \times E-4$
6	$(-1.186 \pm 0.004) \times E-3$	$(-2 \pm 6) \times E-6$
7	$(3.0 \pm 0.4) \times E-5$	$(-2.7 \pm 0.5) \times E-5$
8	$(-2.2 \pm 0.4) \times E-5$	$(-3.5 \pm 0.5) \times E-5$
9	$(-2.6 \pm 0.5) \times E-5$	$(1.8 \pm 0.5) \times E-5$
10	$(1.112 \pm 0.004) \times E-3$	$(-2.1 \pm 0.6) \times E-5$
11	$(8 \pm 5) \times E-6$	$(-2.5 \pm 0.7) \times E-5$
12	$(6.2 \pm 50.6) \times E-7$	$(1 \pm 7) \times E-6$
13	$(-1.8 \pm 0.3) \times E-5$	$(2.1 \pm 0.5) \times E-5$
14	$(-1.06 \pm 0.06) \times E-4$	$(-1.9 \pm 0.4) \times E-5$
15	$(7.9 \pm 71.3) \times E-7$	$(-1.9 \pm 0.9) \times E-5$

