



# BQF-017

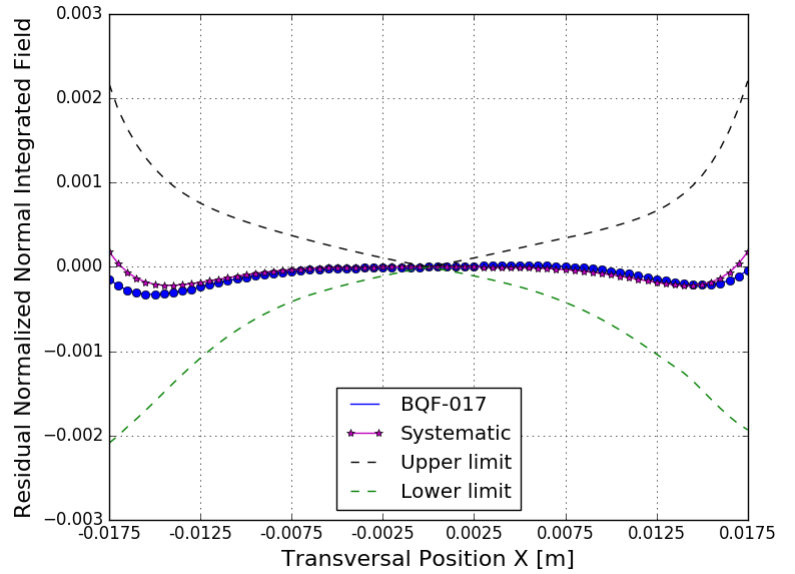
## BOOSTER MAGNET REPORT

### Results

Date	07/04/2016
Hour	12:32:50
Temperature [°C]	21.1
Number of Measurements	17
Main Coil Current [A]	$(129.9981 \pm 0.0005)$
Trim Coil Current [A]	--
Integrated Gradient [T]	$(-4.82036 \pm 0.00004)$
Magnet Center Offset X [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(21.5 \pm 0.2)$
Magnet Center Offset Y [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-20.6 \pm 0.2)$
Roll [mrad] - ( $< \pm 0.8$ )	$(-6.58 \pm 0.10) \times E-1$

### Electric Parameters

Inductance [mH]	8.286
Voltage [V]	0.480
Resistance [ $\text{m}\Omega$ ]	48.00
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)	$(1.23 \pm 0.01) \times E-3$	$(-1.179 \pm 0.009) \times E-3$
2 (quadrupole)	$(1.000000 \pm 0.000009)$	$(-1.315 \pm 0.007) \times E-3$
3 (sextupole)	$(6.5 \pm 0.8) \times E-5$	$(-6.5 \pm 0.1) \times E-4$
4	$(8.7 \pm 0.8) \times E-5$	$(1.4 \pm 0.1) \times E-4$
5	$(-1.1 \pm 0.8) \times E-5$	$(-2.3 \pm 1.0) \times E-5$
6	$(-1.182 \pm 0.010) \times E-3$	$(8 \pm 8) \times E-6$
7	$(2.4 \pm 0.4) \times E-5$	$(-5 \pm 7) \times E-6$
8	$(-1.4 \pm 0.5) \times E-5$	$(-3.8 \pm 1.0) \times E-5$
9	$(-3 \pm 6) \times E-6$	$(3.0 \pm 0.5) \times E-5$
10	$(1.112 \pm 0.006) \times E-3$	$(-1.3 \pm 0.9) \times E-5$
11	$(7 \pm 6) \times E-6$	$(-3.6 \pm 0.7) \times E-5$
12	$(6 \pm 4) \times E-6$	$(-3 \pm 5) \times E-6$
13	$(-8 \pm 5) \times E-6$	$(2.7 \pm 0.4) \times E-5$
14	$(-1.01 \pm 0.07) \times E-4$	$(-3.08 \pm 834.56) \times E-8$
15	$(-2.1 \pm 0.7) \times E-5$	$(-2.2 \pm 0.5) \times E-5$

