



# BQF-020

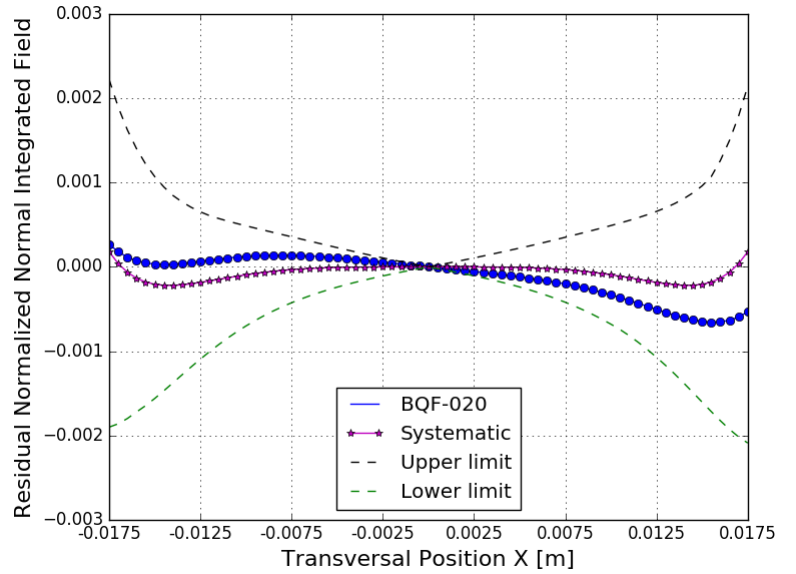
## BOOSTER MAGNET REPORT

### Results

Date	11/04/2016
Hour	12:18:28
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	$(130.0030 \pm 0.0005)$
Trim Coil Current [A]	--
Integrated Gradient [T]	$(-4.82525 \pm 0.00001)$
Magnet Center Offset X [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(10.50 \pm 0.05)$
Magnet Center Offset Y [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-15.74 \pm 0.10)$
Roll [mrad] - ( $< \pm 0.8$ )	$(-4.52 \pm 0.04) \times E-1$

### Electric Parameters

Inductance [mH]	8.303
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)	$(6.00 \pm 0.03) \times E-4$	$(-8.99 \pm 0.06) \times E-4$
2 (quadrupole)	$(1.000000 \pm 0.000003)$	$(-9.03 \pm 0.02) \times E-4$
3 (sextupole)	$(-3.91 \pm 0.04) \times E-4$	$(-9.31 \pm 0.05) \times E-4$
4	$(3.0 \pm 0.4) \times E-5$	$(2.7 \pm 0.5) \times E-5$
5	$(-3.6 \pm 0.3) \times E-5$	$(7.8 \pm 0.6) \times E-5$
6	$(-1.174 \pm 0.003) \times E-3$	$(-7 \pm 4) \times E-6$
7	$(3.8 \pm 0.3) \times E-5$	$(-3 \pm 4) \times E-6$
8	$(-1.6 \pm 0.5) \times E-5$	$(-4.6 \pm 0.5) \times E-5$
9	$(5 \pm 3) \times E-6$	$(-2 \pm 6) \times E-6$
10	$(1.117 \pm 0.002) \times E-3$	$(1.4 \pm 0.4) \times E-5$
11	$(-3 \pm 3) \times E-6$	$(-1.4 \pm 0.4) \times E-5$
12	$(2 \pm 3) \times E-6$	$(2.3 \pm 58.9) \times E-7$
13	$(6 \pm 5) \times E-6$	$(1.4 \pm 0.6) \times E-5$
14	$(-9.2 \pm 0.6) \times E-5$	$(4 \pm 4) \times E-6$
15	$(-1.9 \pm 0.4) \times E-5$	$(9 \pm 6) \times E-6$

