



# BQF-032

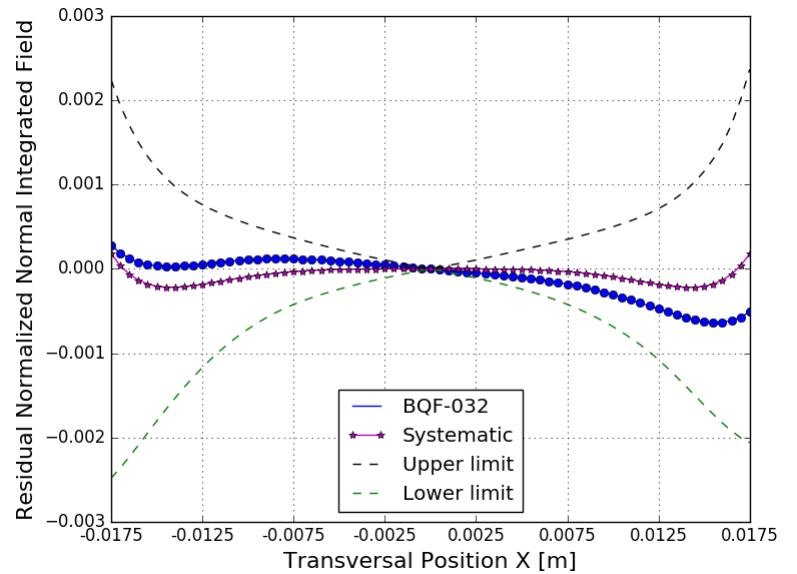
## BOOSTER MAGNET REPORT

### Results

Date	13/04/2016
Hour	15:46:56
Temperature [°C]	21.3
Number of Measurements	17
Main Coil Current [A]	$(130.0120 \pm 0.0003)$
Trim Coil Current [A]	--
Integrated Gradient [T]	$(-4.82732 \pm 0.00001)$
Magnet Center Offset X [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(35.46 \pm 0.06)$
Magnet Center Offset Y [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-29.46 \pm 0.06)$
Roll [mrad] - ( $< \pm 0.8$ )	$(-5.35 \pm 0.04) \times E-1$

### Electric Parameters

Inductance [mH]	8.214
Voltage [V]	0.483
Resistance [ $\text{m}\Omega$ ]	48.30
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)	$(2.026 \pm 0.003) \times E-3$	$(-1.683 \pm 0.003) \times E-3$
2 (quadrupole)	$(1.000000 \pm 0.000003)$	$(-1.071 \pm 0.003) \times E-3$
3 (sextupole)	$(-3.30 \pm 0.03) \times E-4$	$(-5.94 \pm 0.03) \times E-4$
4	$(4.3 \pm 0.3) \times E-5$	$(1.47 \pm 0.03) \times E-4$
5	$(-1.14 \pm 0.04) \times E-4$	$(-1.5 \pm 0.6) \times E-5$
6	$(-1.157 \pm 0.003) \times E-3$	$(-2.9 \pm 0.4) \times E-5$
7	$(6.3 \pm 0.2) \times E-5$	$(1.2 \pm 0.5) \times E-5$
8	$(-2.8 \pm 0.2) \times E-5$	$(-3.7 \pm 0.4) \times E-5$
9	$(-1.2 \pm 0.3) \times E-5$	$(7 \pm 6) \times E-6$
10	$(1.105 \pm 0.004) \times E-3$	$(-1.8 \pm 0.4) \times E-5$
11	$(1.4 \pm 0.5) \times E-5$	$(-1.7 \pm 0.5) \times E-5$
12	$(6.1 \pm 22.5) \times E-7$	$(3.0 \pm 0.4) \times E-5$
13	$(-3.2 \pm 0.3) \times E-5$	$(10 \pm 4) \times E-6$
14	$(-8.0 \pm 0.4) \times E-5$	$(-1.6 \pm 0.7) \times E-5$
15	$(1.6 \pm 0.4) \times E-5$	$(-1.9 \pm 0.7) \times E-5$

