



# BQF-037

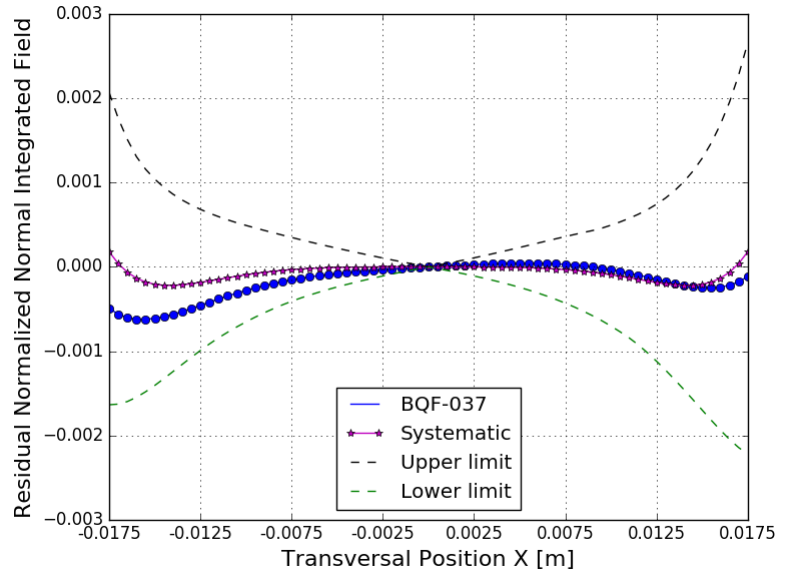
## BOOSTER MAGNET REPORT

### Results

Date	05/04/2016
Hour	16:06:05
Temperature [°C]	21.1
Number of Measurements	17
Main Coil Current [A]	(130.0122 ± 0.0004)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.82370 ± 0.00001)
Magnet Center Offset X [μm] - (< ±160.0)	(8.94 ± 0.04)
Magnet Center Offset Y [μm] - (< ±160.0)	(-30.54 ± 0.08)
Roll [mrad] - (< ±0.8)	(-3.15 ± 0.04) × E-1

### Electric Parameters

Inductance [mH]	8.265
Voltage [V]	0.484
Resistance [mΩ]	48.40
Main Coil Number of Turns	26.25



n	Normalized Normal Multipoles x=17.5 mm [T.m <sup>(2-n)</sup> ]	Normalized Skew Multipoles x=17.5 mm [T.m <sup>(2-n)</sup> ]
1 (dipole)	(5.11 ± 0.02) × E-4	(-1.745 ± 0.004) × E-3
2 (quadrupole)	(1.000000 ± 0.000003)	(-6.30 ± 0.03) × E-4
3 (sextupole)	(2.12 ± 0.04) × E-4	(-9.75 ± 0.04) × E-4
4	(-1.26 ± 0.03) × E-4	(1.10 ± 0.06) × E-4
5	(7 ± 4) × E-6	(4.3 ± 0.5) × E-5
6	(-1.184 ± 0.005) × E-3	(-1.2 ± 0.4) × E-5
7	(1.7 ± 0.4) × E-5	(1.4 ± 0.4) × E-5
8	(-1.2 ± 0.4) × E-5	(-4.0 ± 0.4) × E-5
9	(-1.9 ± 0.3) × E-5	(1.4 ± 0.7) × E-5
10	(1.103 ± 0.005) × E-3	(3 ± 3) × E-6
11	(-9 ± 5) × E-6	(-2.9 ± 0.4) × E-5
12	(3 ± 4) × E-6	(-9 ± 5) × E-6
13	(-5 ± 5) × E-6	(2.0 ± 0.5) × E-5
14	(-8.8 ± 0.5) × E-5	(-1 ± 5) × E-6
15	(-1.3 ± 0.5) × E-5	(-10 ± 3) × E-6

