



# BQF-050

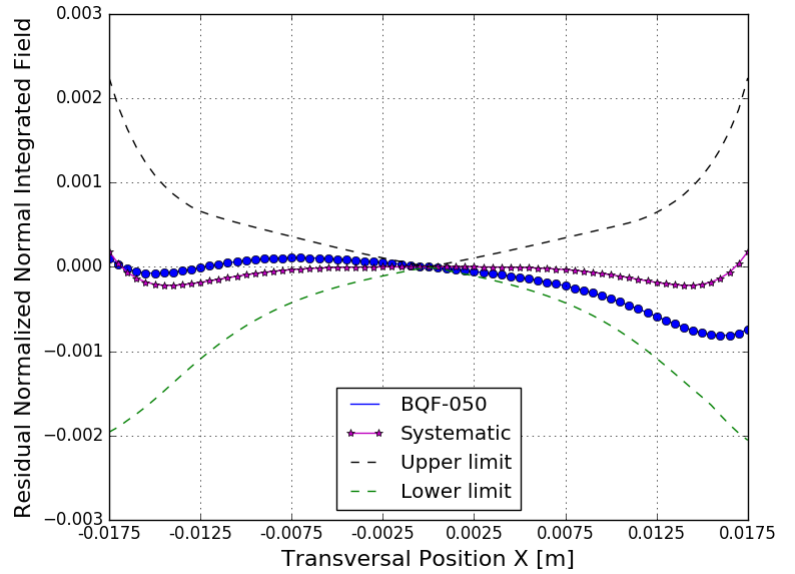
## BOOSTER MAGNET REPORT

### Results

Date	01/04/2016
Hour	16:22:14
Temperature [°C]	21.3
Number of Measurements	17
Main Coil Current [A]	(129.9987 ± 0.0003)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.82358 ± 0.00006)
Magnet Center Offset X [μm] - (< ±160.0)	(25.0 ± 0.4)
Magnet Center Offset Y [μm] - (< ±160.0)	(-41.3 ± 0.1)
Roll [mrad] - (< ±0.8)	(-5.82 ± 0.04) × E-1

### Electric Parameters

Inductance [mH]	8.387
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)	(1.43 ± 0.02) × E-3	(-2.362 ± 0.007) × E-3
2 (quadrupole)	(1.00000 ± 0.00001)	(-1.164 ± 0.003) × E-3
3 (sextupole)	(-3.7 ± 0.2) × E-4	(-1.8 ± 0.1) × E-4
4	(-1.01 ± 0.10) × E-4	(1.50 ± 0.08) × E-4
5	(-10 ± 1) × E-5	(1.9 ± 0.8) × E-5
6	(-1.223 ± 0.009) × E-3	(4.8 ± 11.9) × E-6
7	(6 ± 1) × E-5	(-6 ± 2) × E-5
8	(-1.0 ± 0.9) × E-5	(-4.4 ± 0.8) × E-5
9	(1 ± 1) × E-5	(2 ± 1) × E-5
10	(1.103 ± 0.009) × E-3	(2 ± 1) × E-5
11	(-3.4 ± 0.8) × E-5	(-1.4 ± 0.9) × E-5
12	(8 ± 7) × E-6	(-2 ± 1) × E-5
13	(2 ± 1) × E-5	(9 ± 9) × E-6
14	(-10 ± 1) × E-5	(3.3 ± 0.8) × E-5
15	(-1.6 ± 1.0) × E-5	(9.19 ± 111.64) × E-7

