



# BQF-052

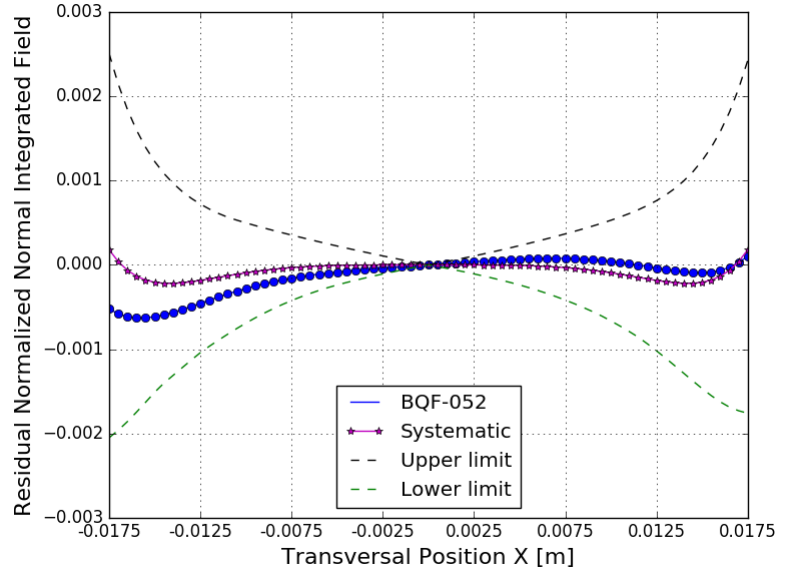
## BOOSTER MAGNET REPORT

### Results

Date	06/04/2016
Hour	10:43:23
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	(130.0114 ± 0.0005)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.82156 ± 0.00006)
Magnet Center Offset X [μm] - (< ±160.0)	(15.1 ± 0.4)
Magnet Center Offset Y [μm] - (< ±160.0)	(-34.9 ± 0.2)
Roll [mrad] - (< ±0.8)	(-2.94 ± 0.08) × E-1

### Electric Parameters

Inductance [mH]	8.389
Voltage [V]	0.487
Resistance [mΩ]	48.70
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)	(8.6 ± 0.2) × E-4	(-1.99 ± 0.01) × E-3
2 (quadrupole)	(1.00000 ± 0.00001)	(-5.87 ± 0.05) × E-4
3 (sextupole)	(2.6 ± 0.1) × E-4	(-5.8 ± 0.2) × E-4
4	(-4.2 ± 15.8) × E-6	(1.4 ± 0.1) × E-4
5	(5 ± 1) × E-5	(-1 ± 2) × E-5
6	(-1.22 ± 0.01) × E-3	(-3 ± 2) × E-5
7	(3 ± 1) × E-5	(2 ± 1) × E-5
8	(-1 ± 1) × E-5	(-3 ± 2) × E-5
9	(-3 ± 1) × E-5	(2 ± 1) × E-5
10	(1.11 ± 0.01) × E-3	(-2 ± 2) × E-5
11	(3 ± 1) × E-5	(-3 ± 1) × E-5
12	(1.8 ± 1.0) × E-5	(2 ± 1) × E-5
13	(-2.7 ± 0.6) × E-5	(2 ± 1) × E-5
14	(-1.04 ± 0.07) × E-4	(-2.8 ± 0.5) × E-5
15	(2 ± 7) × E-6	(-6 ± 10) × E-6

