



# BQF-026

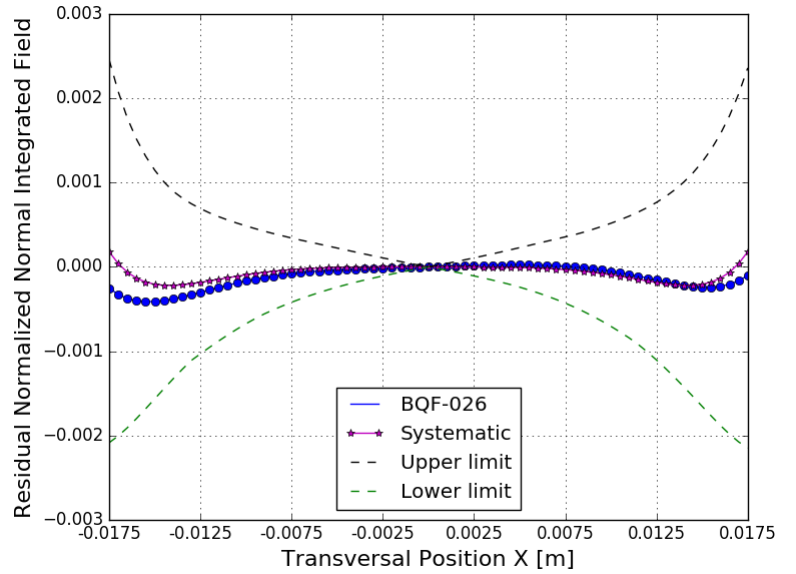
## BOOSTER MAGNET REPORT

### Results

Date	31/03/2016
Hour	12:08:49
Temperature [°C]	21.3
Number of Measurements	17
Main Coil Current [A]	(130.0013 ± 0.0004)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.83182 ± 0.00008)
Magnet Center Offset X [μm] - (< ±160.0)	(-15.0 ± 0.4)
Magnet Center Offset Y [μm] - (< ±160.0)	(-44.5 ± 0.2)
Roll [mrad] - (< ±0.8)	(-5.2 ± 0.2) × E-1

### Electric Parameters

Inductance [mH]	8.312
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)	(-8.5 ± 0.2) × E-4	(-2.54 ± 0.01) × E-3
2 (quadrupole)	(1.00000 ± 0.00002)	(-1.03 ± 0.01) × E-3
3 (sextupole)	(1.1 ± 0.2) × E-4	(-4 ± 2) × E-5
4	(2 ± 2) × E-5	(1.4 ± 0.2) × E-4
5	(-4 ± 2) × E-5	(-5 ± 1) × E-5
6	(-1.19 ± 0.02) × E-3	(2.3 ± 17.2) × E-6
7	(7 ± 2) × E-5	(-3 ± 2) × E-5
8	(-2.8 ± 21.5) × E-6	(-4.3 ± 0.9) × E-5
9	(-4 ± 1) × E-5	(2 ± 2) × E-5
10	(1.10 ± 0.01) × E-3	(6 ± 4) × E-6
11	(-2 ± 9) × E-6	(-2 ± 2) × E-5
12	(2 ± 7) × E-6	(-2.0 ± 0.9) × E-5
13	(7 ± 6) × E-6	(1.3 ± 0.8) × E-5
14	(-9.9 ± 0.8) × E-5	(1.5 ± 1.0) × E-5
15	(-3.2 ± 0.8) × E-5	(-7.9 ± 55.9) × E-7

