



# BQF-046

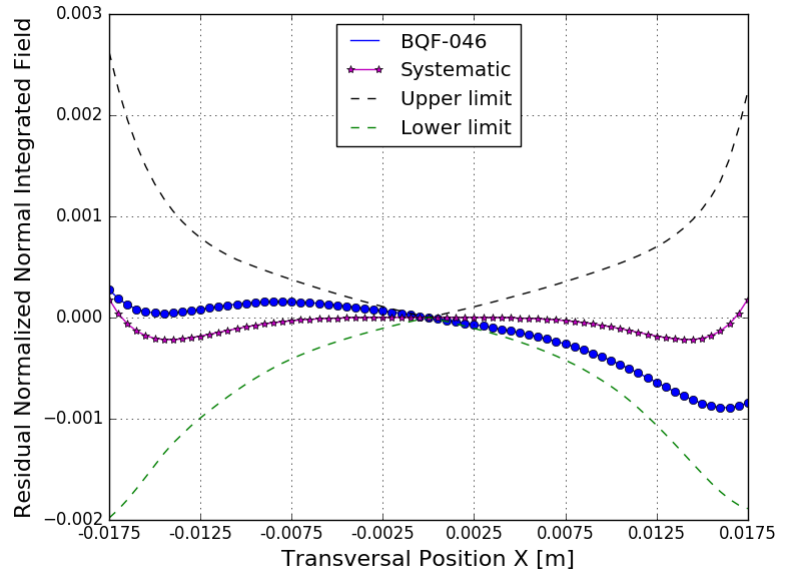
## BOOSTER MAGNET REPORT

### Results

Date	15/04/2016
Hour	17:03:06
Temperature [°C]	21.3
Number of Measurements	17
Main Coil Current [A]	(129.9999 ± 0.0005)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.82569 ± 0.00002)
Magnet Center Offset X [μm] - (< ±160.0)	(-17.51 ± 0.04)
Magnet Center Offset Y [μm] - (< ±160.0)	(-32.64 ± 0.07)
Roll [mrad] - (< ±0.8)	(-4.23 ± 0.05) × E-1

### Electric Parameters

Inductance [mH]	8.334
Voltage [V]	0.482
Resistance [mΩ]	48.20
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)	(-1.001 ± 0.003) × E-3	(-1.865 ± 0.004) × E-3
2 (quadrupole)	(1.000000 ± 0.000003)	(-8.46 ± 0.03) × E-4
3 (sextupole)	(-4.74 ± 0.03) × E-4	(-4.49 ± 0.04) × E-4
4	(-8.5 ± 0.3) × E-5	(1.02 ± 0.04) × E-4
5	(-7.6 ± 0.3) × E-5	(-3.2 ± 0.4) × E-5
6	(-1.182 ± 0.003) × E-3	(-8 ± 3) × E-6
7	(4.2 ± 0.4) × E-5	(-1.8 ± 0.5) × E-5
8	(-1.2 ± 0.3) × E-5	(-3.9 ± 0.3) × E-5
9	(-2.4 ± 0.7) × E-5	(1.4 ± 0.3) × E-5
10	(1.085 ± 0.006) × E-3	(-1.2 ± 0.4) × E-5
11	(-3 ± 4) × E-6	(-2.2 ± 0.4) × E-5
12	(6 ± 3) × E-6	(8.8 ± 47.7) × E-7
13	(-1.3 ± 0.5) × E-5	(1.2 ± 0.5) × E-5
14	(-9.6 ± 0.5) × E-5	(-1.1 ± 0.5) × E-5
15	(-9 ± 5) × E-6	(-1.7 ± 0.4) × E-5

