



# BQF-013

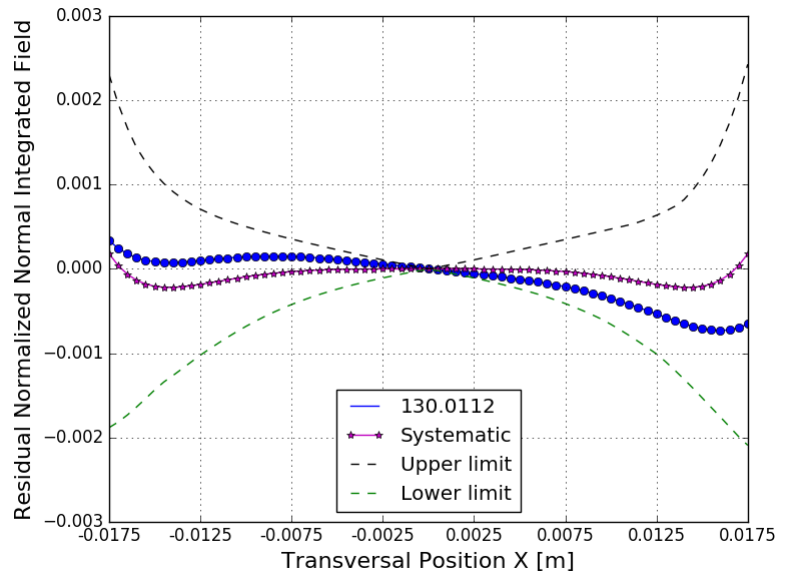
## BOOSTER MAGNET REPORT

### Results

Date	07/04/2016
Hour	15:27:07
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	(130.0112 ± 0.0003)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.82176 ± 0.00002)
Magnet Center Offset X [μm] - (< ±160.0)	(2.94 ± 0.06)
Magnet Center Offset Y [μm] - (< ±160.0)	(-27.79 ± 0.07)
Roll [mrad] - (< ±0.8)	(-5.00 ± 0.04) × E-1

### Electric Parameters

Inductance [mH]	8.321
Voltage [V]	0.489
Resistance [mΩ]	3.761
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)	(1.68 ± 0.03) × E-4	(-1.588 ± 0.004) × E-3
2 (quadrupole)	(1.000000 ± 0.000003)	(-9.99 ± 0.03) × E-4
3 (sextupole)	(-4.03 ± 0.03) × E-4	(-7.64 ± 0.04) × E-4
4	(3.4 ± 0.3) × E-5	(1.90 ± 0.05) × E-4
5	(-1.01 ± 0.04) × E-4	(3.7 ± 0.2) × E-5
6	(-1.177 ± 0.004) × E-3	(-1.9 ± 0.5) × E-5
7	(5.8 ± 0.3) × E-5	(2 ± 5) × E-6
8	(-2.0 ± 0.3) × E-5	(-2.8 ± 0.4) × E-5
9	(-3.6 ± 0.6) × E-5	(9 ± 3) × E-6
10	(1.112 ± 0.005) × E-3	(-2.8 ± 0.4) × E-5
11	(8 ± 6) × E-6	(-3.2 ± 0.5) × E-5
12	(7 ± 4) × E-6	(1.6 ± 0.5) × E-5
13	(-2.8 ± 0.6) × E-5	(1.4 ± 0.4) × E-5
14	(-1.16 ± 0.05) × E-4	(-2.6 ± 0.6) × E-5
15	(9 ± 8) × E-6	(-2.7 ± 0.5) × E-5

