



BQF-051

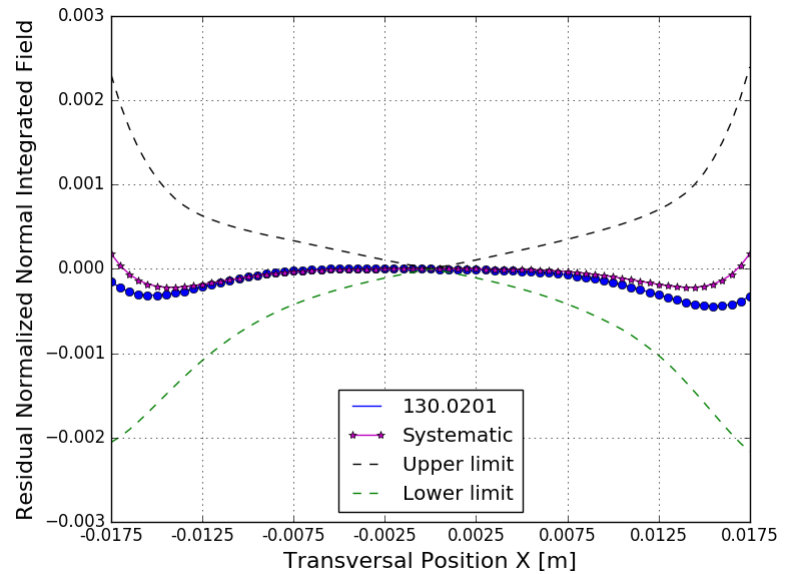
BOOSTER MAGNET REPORT

Results

Date	04/04/2016
Hour	09:43:06
Temperature [°C]	21.3
Number of Measurements	17
Main Coil Current [A]	(130.0201 ± 0.0004)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.82511 ± 0.00002)
Magnet Center Offset X [μm] - (< ±160.0)	(14.05 ± 0.06)
Magnet Center Offset Y [μm] - (< ±160.0)	(-9.63 ± 0.05)
Roll [mrad] - (< ±0.8)	(-4.21 ± 0.04) × E-1

Electric Parameters

Inductance [mH]	8.400
Voltage [V]	0.484
Resistance [mΩ]	3.723
Main Coil Number of Turns	26.25



n	Normalized Normal Multipoles x=17.5 mm [T.m ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles x=17.5 mm [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	(8.03 ± 0.03) × E-4	(-5.50 ± 0.03) × E-4
2 (quadrupole)	(1.000000 ± 0.000003)	(-8.43 ± 0.03) × E-4
3 (sextupole)	(-5.0 ± 0.5) × E-5	(-9.79 ± 0.04) × E-4
4	(-3.1 ± 0.4) × E-5	(5.1 ± 0.6) × E-5
5	(-4.4 ± 0.6) × E-5	(4.1 ± 0.5) × E-5
6	(-1.213 ± 0.008) × E-3	(-1.3 ± 0.4) × E-5
7	(3.2 ± 0.8) × E-5	(2 ± 5) × E-6
8	(-9 ± 5) × E-6	(-3.7 ± 0.6) × E-5
9	(-5 ± 8) × E-6	(1.5 ± 0.7) × E-5
10	(1.11 ± 0.01) × E-3	(-6 ± 6) × E-6
11	(-1.1 ± 0.8) × E-5	(-3.7 ± 0.7) × E-5
12	(-8.6 ± 14.7) × E-6	(-1 ± 1) × E-5
13	(4 ± 6) × E-6	(2.0 ± 0.9) × E-5
14	(-9 ± 1) × E-5	(6 ± 6) × E-6
15	(-10 ± 5) × E-6	(-3 ± 1) × E-5

