



BQF-020

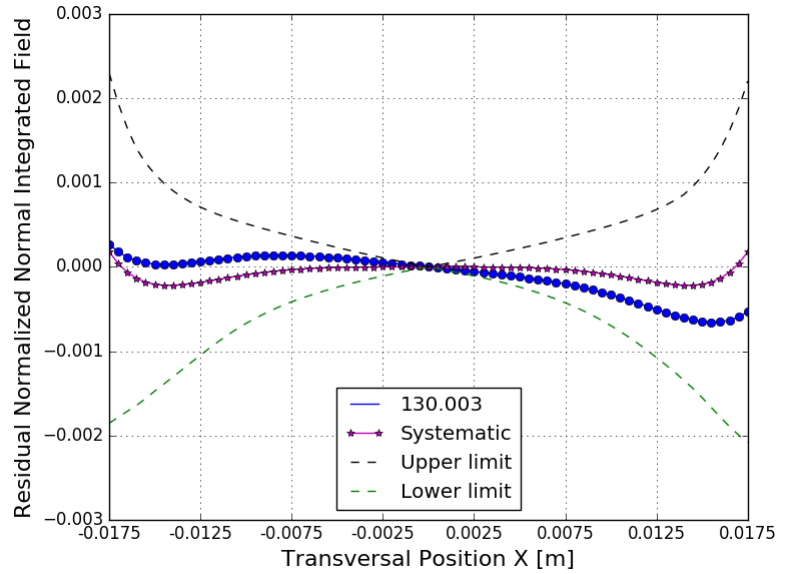
BOOSTER MAGNET REPORT

Results

Date	11/04/2016
Hour	12:18:28
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	(130.0030 ± 0.0005)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.82525 ± 0.00001)
Magnet Center Offset X [μm] - (< ±160.0)	(10.50 ± 0.05)
Magnet Center Offset Y [μm] - (< ±160.0)	(-15.74 ± 0.10)
Roll [mrad] - (< ±0.8)	(-4.52 ± 0.04) × E-1

Electric Parameters

Inductance [mH]	8.303
Voltage [V]	0.480
Resistance [mΩ]	3.692
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)	(6.00 ± 0.03) × E-4	(-8.99 ± 0.06) × E-4
2 (quadrupole)	(1.000000 ± 0.000003)	(-9.03 ± 0.02) × E-4
3 (sextupole)	(-3.91 ± 0.04) × E-4	(-9.31 ± 0.05) × E-4
4	(3.0 ± 0.4) × E-5	(2.7 ± 0.5) × E-5
5	(-3.6 ± 0.3) × E-5	(7.8 ± 0.6) × E-5
6	(-1.174 ± 0.003) × E-3	(-7 ± 4) × E-6
7	(3.8 ± 0.3) × E-5	(-3 ± 4) × E-6
8	(-1.6 ± 0.5) × E-5	(-4.6 ± 0.5) × E-5
9	(5 ± 3) × E-6	(-2 ± 6) × E-6
10	(1.117 ± 0.002) × E-3	(1.4 ± 0.4) × E-5
11	(-3 ± 3) × E-6	(-1.4 ± 0.4) × E-5
12	(2 ± 3) × E-6	(2.3 ± 58.9) × E-7
13	(6 ± 5) × E-6	(1.4 ± 0.6) × E-5
14	(-9.2 ± 0.6) × E-5	(4 ± 4) × E-6
15	(-1.9 ± 0.4) × E-5	(9 ± 6) × E-6

