



BQF-025

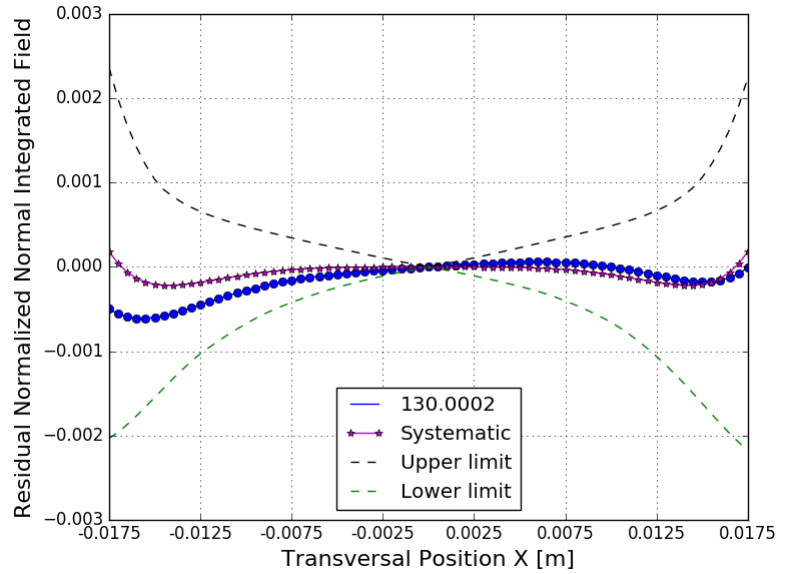
BOOSTER MAGNET REPORT

Results

Date	31/03/2016
Hour	14:53:40
Temperature [°C]	21.3
Number of Measurements	17
Main Coil Current [A]	(130.0002 ± 0.0004)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.828261 ± 0.000009)
Magnet Center Offset X [μm] - (< ±160.0)	(49.39 ± 0.06)
Magnet Center Offset Y [μm] - (< ±160.0)	(-19.80 ± 0.04)
Roll [mrad] - (< ±0.8)	(-4.11 ± 0.04) × E-1

Electric Parameters

Inductance [mH]	8.270
Voltage [V]	0.481
Resistance [mΩ]	3.700
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)	(2.822 ± 0.004) × E-3	(-1.132 ± 0.002) × E-3
2 (quadrupole)	(1.000000 ± 0.000002)	(-8.22 ± 0.02) × E-4
3 (sextupole)	(2.54 ± 0.03) × E-4	(-8.25 ± 0.03) × E-4
4	(-7.3 ± 0.4) × E-5	(8.7 ± 0.5) × E-5
5	(-3.5 ± 0.3) × E-5	(2.5 ± 0.3) × E-5
6	(-1.183 ± 0.004) × E-3	(-2.5 ± 0.4) × E-5
7	(4.9 ± 0.5) × E-5	(1.6 ± 0.4) × E-5
8	(-1.5 ± 0.5) × E-5	(-1.9 ± 0.3) × E-5
9	(-1.8 ± 0.4) × E-5	(1.2 ± 0.5) × E-5
10	(1.114 ± 0.005) × E-3	(-2.6 ± 0.5) × E-5
11	(1.5 ± 0.5) × E-5	(-2.0 ± 0.4) × E-5
12	(5 ± 5) × E-6	(2.2 ± 0.6) × E-5
13	(-3.0 ± 0.5) × E-5	(1.6 ± 0.6) × E-5
14	(-1.01 ± 0.06) × E-4	(-2.2 ± 0.8) × E-5
15	(1.0 ± 0.4) × E-5	(-4 ± 7) × E-6

