



BQF-047

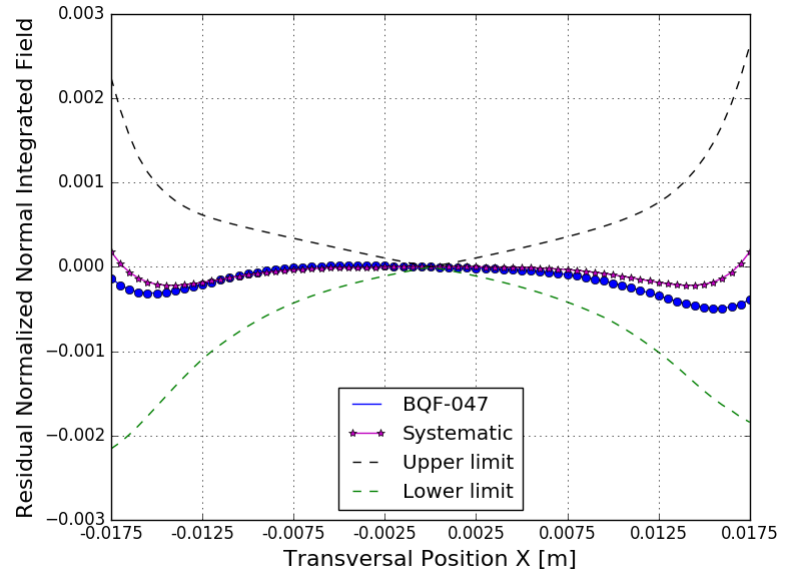
BOOSTER MAGNET REPORT

Results

Date	06/04/2016
Hour	13:09:28
Temperature [°C]	21.0
Number of Measurements	17
Main Coil Current [A]	(130.0107 ± 0.0004)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.81778 ± 0.00002)
Magnet Center Offset X [μm] - (< ±160.0)	(21.22 ± 0.09)
Magnet Center Offset Y [μm] - (< ±160.0)	(-21.81 ± 0.08)
Roll [mrad] - (< ±0.8)	(-4.15 ± 0.08) × E-1

Electric Parameters

Inductance [mH]	8.365
Voltage [V]	0.481
Resistance [mΩ]	48.10
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)	(1.213 ± 0.005) × E-3	(-1.246 ± 0.004) × E-3
2 (quadrupole)	(1.000000 ± 0.000005)	(-8.29 ± 0.05) × E-4
3 (sextupole)	(-9.2 ± 0.6) × E-5	(-5.47 ± 0.04) × E-4
4	(-6.2 ± 0.4) × E-5	(9.6 ± 0.3) × E-5
5	(-1.9 ± 0.6) × E-5	(2.7 ± 0.7) × E-5
6	(-1.207 ± 0.006) × E-3	(-7 ± 7) × E-6
7	(3.5 ± 0.7) × E-5	(-3 ± 5) × E-6
8	(-1.8 ± 0.7) × E-5	(-3.1 ± 0.4) × E-5
9	(-8 ± 8) × E-6	(1.9 ± 0.6) × E-5
10	(1.101 ± 0.004) × E-3	(9.6 ± 65.6) × E-7
11	(-1.0 ± 0.8) × E-5	(-8 ± 4) × E-6
12	(3.0 ± 72.5) × E-7	(1.8 ± 0.8) × E-5
13	(-5.5 ± 10.9) × E-6	(1.3 ± 0.6) × E-5
14	(-7.7 ± 0.8) × E-5	(-2.8 ± 75.5) × E-7
15	(-2.7 ± 0.7) × E-5	(6 ± 9) × E-6

