



BQF-034

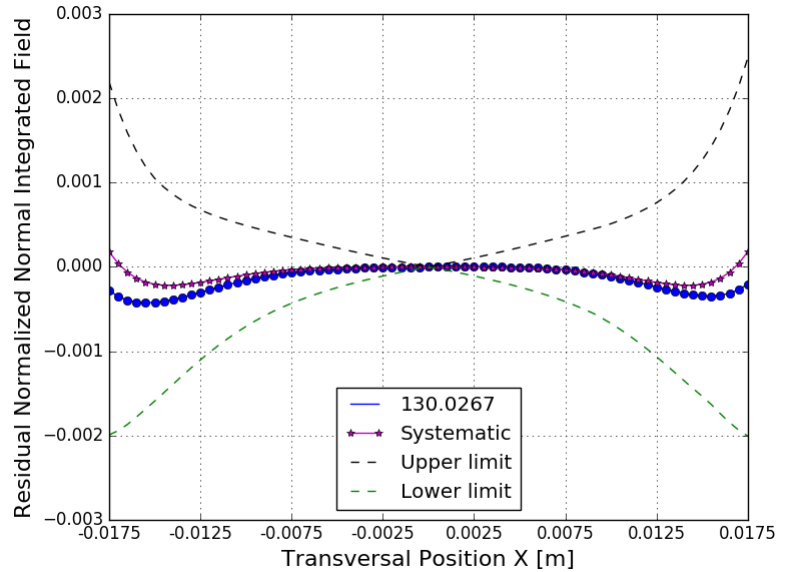
BOOSTER MAGNET REPORT

Results

Date	14/04/2016
Hour	08:11:37
Temperature [°C]	21.0
Number of Measurements	17
Main Coil Current [A]	(130.0267 ± 0.0005)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.82638 ± 0.00001)
Magnet Center Offset X [μm] - (< ±160.0)	(9.62 ± 0.05)
Magnet Center Offset Y [μm] - (< ±160.0)	(-12.65 ± 0.08)
Roll [mrad] - (< ±0.8)	(-3.51 ± 0.05) × E-1

Electric Parameters

Inductance [mH]	8.286
Voltage [V]	0.482
Resistance [mΩ]	3.707
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)	(5.50 ± 0.03) × E-4	(-7.23 ± 0.04) × E-4
2 (quadrupole)	(1.000000 ± 0.000003)	(-7.02 ± 0.03) × E-4
3 (sextupole)	(3.6 ± 0.3) × E-5	(-8.89 ± 0.02) × E-4
4	(-7.9 ± 0.2) × E-5	(1.30 ± 0.06) × E-4
5	(5 ± 4) × E-6	(3.7 ± 0.5) × E-5
6	(-1.151 ± 0.004) × E-3	(-2.1 ± 0.5) × E-5
7	(4.0 ± 0.3) × E-5	(2.4 ± 0.5) × E-5
8	(-2.6 ± 0.4) × E-5	(-2.4 ± 0.3) × E-5
9	(-3.8 ± 0.4) × E-5	(1.9 ± 0.6) × E-5
10	(1.104 ± 0.004) × E-3	(-1.8 ± 0.6) × E-5
11	(1.3 ± 0.6) × E-5	(-1.3 ± 0.5) × E-5
12	(-4 ± 3) × E-6	(3.1 ± 0.4) × E-5
13	(-3.1 ± 0.3) × E-5	(1.2 ± 0.6) × E-5
14	(-8.7 ± 0.7) × E-5	(-2.2 ± 0.3) × E-5
15	(1.4 ± 0.5) × E-5	(-7 ± 5) × E-6

