



BQF-038

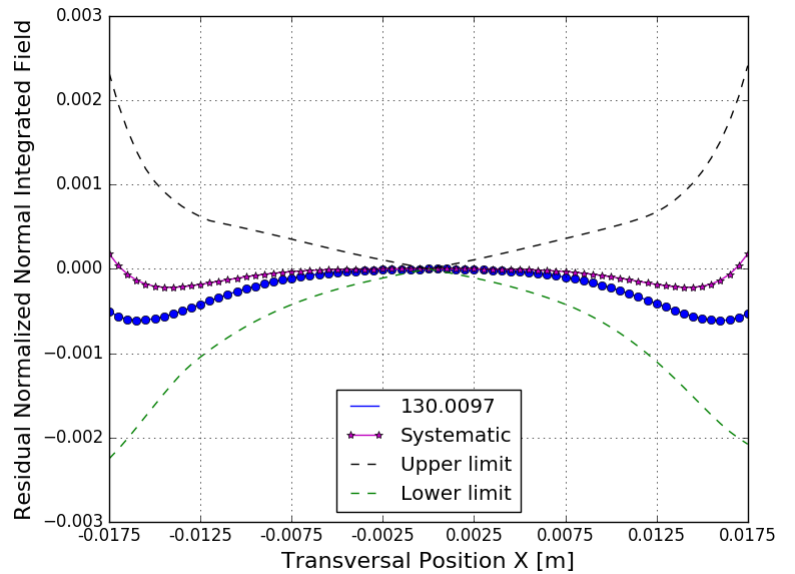
BOOSTER MAGNET REPORT

Results

Date	05/04/2016
Hour	14:04:41
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	(130.0097 ± 0.0005)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.82289 ± 0.00001)
Magnet Center Offset X [μm] - (< ±160.0)	(6.96 ± 0.04)
Magnet Center Offset Y [μm] - (< ±160.0)	(-33.88 ± 0.06)
Roll [mrad] - (< ±0.8)	(-3.64 ± 0.02) × E-1

Electric Parameters

Inductance [mH]	8.237
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)	(3.98 ± 0.02) × E-4	(-1.936 ± 0.003) × E-3
2 (quadrupole)	(1.000000 ± 0.000002)	(-7.28 ± 0.01) × E-4
3 (sextupole)	(1.7 ± 0.3) × E-5	(-6.73 ± 0.03) × E-4
4	(-3.53 ± 0.02) × E-4	(1.16 ± 0.04) × E-4
5	(-3.3 ± 0.2) × E-5	(3.6 ± 0.2) × E-5
6	(-1.190 ± 0.003) × E-3	(-2.0 ± 0.4) × E-5
7	(2.6 ± 0.2) × E-5	(-2.0 ± 0.3) × E-5
8	(1.2 ± 0.3) × E-5	(-5.5 ± 0.3) × E-5
9	(-2 ± 3) × E-6	(1.7 ± 0.3) × E-5
10	(1.106 ± 0.004) × E-3	(8 ± 4) × E-6
11	(-1.5 ± 0.4) × E-5	(-2.9 ± 0.4) × E-5
12	(-4 ± 4) × E-6	(-1.3 ± 0.3) × E-5
13	(1.6 ± 0.6) × E-5	(1.4 ± 0.4) × E-5
14	(-8.8 ± 0.5) × E-5	(3 ± 5) × E-6
15	(-2.0 ± 0.4) × E-5	(-3.2 ± 50.9) × E-7

