BS-014

BOOSTER MAGNET REPORT

Results

Date	25/10/2016
Hour	14:03:41
Temperature [°C]	23.0
Number of Measurements	17
Main Coil Current [A]	(149.959 ± 0.001)
Trim Coil Current [A]	--
Integrated Gradient [T/m]	(-21.3956 ± 0.0004)
Magnet Center Offset X [μm] - (< ±160.0)	(13.9 ± 0.2)
Magnet Center Offset Y [μm] - (< ±160.0)	(-40.1 ± 0.2)
Roll [mrad] - (< ±0.8)	(1.57 ± 0.04) x E-1

Electric Parameters

Indutance [mH]	0.108
Voltage [V]	--
Resistance [mΩ]	--
Main Coil Number of Turns	3
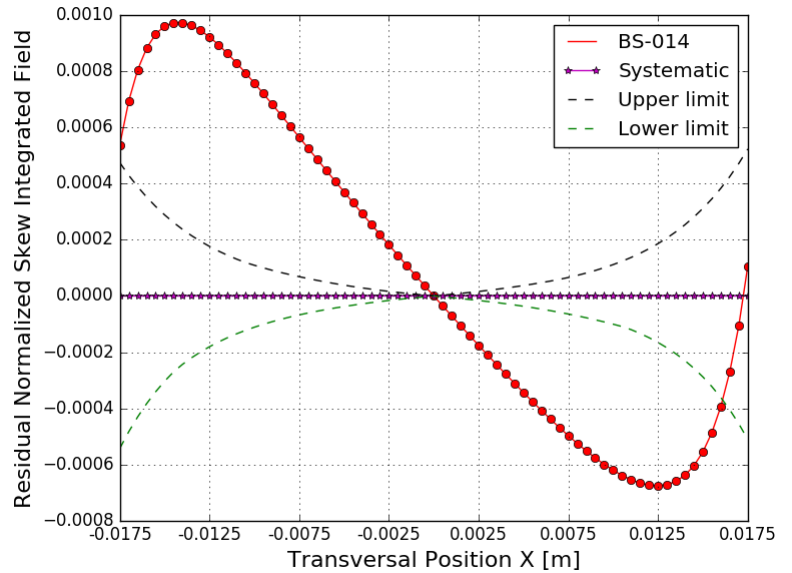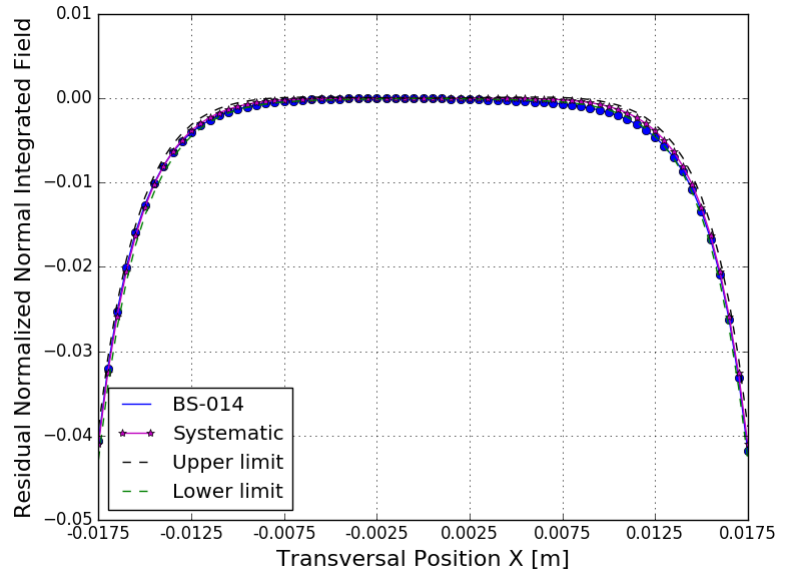
n	Normalized Normal Multipoles x=17.5 mm $[T.m^{(2-n)}]$	Normalized Skew Multipoles x=17.5 mm $[T.m^{(2-n)}]$
1 (dipole)	(-4.10 ± 0.02) x E-3	(-2.94 ± 0.03) x E-3
2 (quadrupole)	(1.59 ± 0.02) x E-3	(-4.58 ± 0.02) x E-3
3 (sextupole)	(1.00000 ± 0.00002)	(4.7 ± 0.1) x E-4
4	(-3.7 ± 0.2) x E-4	(-1.25 ± 0.01) x E-3
5	(-2.00 ± 0.02) x E-3	(1.5 ± 0.3) x E-4
6	(4 ± 2) x E-5	(-2 ± 2) x E-5
7	(-4.2 ± 0.2) x E-4	(2.1 ± 0.4) x E-4
8	(-8 ± 4) x E-5	(4.6 ± 0.3) x E-4
9	(-2.179 ± 0.002) x E-2	(-6 ± 3) x E-5
10	(-9.17 ± 438.86) x E-7	(6 ± 2) x E-5
11	(1.1 ± 0.3) x E-4	(-5.1 ± 59.4) x E-6
12	(-4.5 ± 49.8) x E-6	(-3 ± 3) x E-5
13	(-6 ± 7) x E-5	(1 ± 8) x E-5
14	(-1.7 ± 1.0) x E-4	(6 ± 1) x E-4
15	(-1.707 ± 0.006) x E-2	(1 ± 9) x E-5