BS-026

BOOSTER MAGNET REPORT

Results	
Date	24/10/2016
Hour	11:38:32
Temperature [°C]	23.0
Number of Measurements	17
Main Coil Current [A]	(149.956 ± 0.001)
Trim Coil Current [A]	--
Integrated Gradient [T/m]	(-21.4157 ± 0.0006)
Magnet Center Offset X [μm] - (< ±160.0)	(12.3 ± 0.1)
Magnet Center Offset Y [μm] - (< ±160.0)	(-34.8 ± 0.2)
Roll [mrad] - (< ±0.8)	(1.41 ± 0.07) x E-1
Electric Parameters	
Indutance [mH]	0.107
Voltage [V]	--
Resistance [mΩ]	--
Main Coil Number of Turns	3
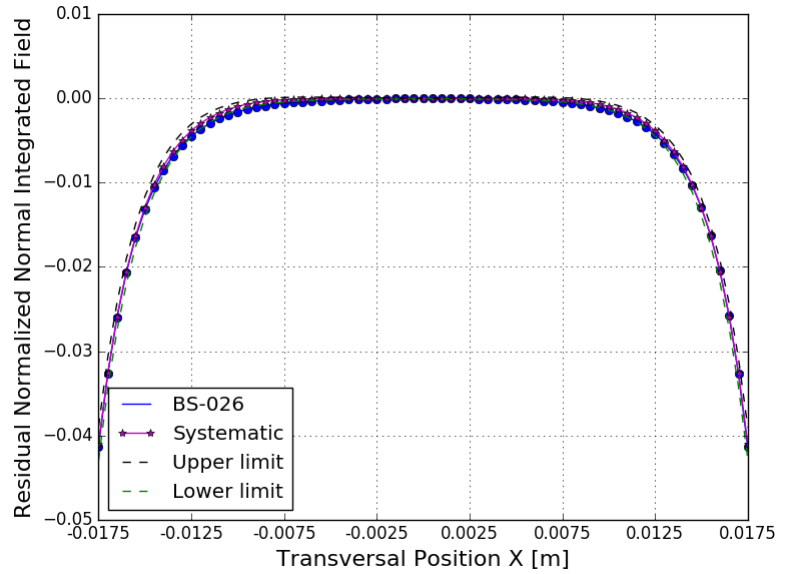
n	Normalized Normal Multipoles x=17.5 mm $[T.m^{(2-n)}]$	Normalized Skew Multipoles x=17.5 mm $[T.m^{(2-n)}]$
1 (dipole)	(-3.56 ± 0.01) x E-3	(-2.24 ± 0.03) x E-3
2 (quadrupole)	(1.41 ± 0.02) x E-3	(-3.98 ± 0.03) x E-3
3 (sextupole)	(1.00000 ± 0.00003)	(4.2 ± 0.2) x E-4
4	(1.2 ± 0.2) x E-4	(-1.02 ± 0.02) x E-3
5	(-2.09 ± 0.02) x E-3	(1.6 ± 0.4) x E-4
6	(1.7 ± 0.2) x E-4	(-3 ± 2) x E-5
7	(-4.3 ± 0.2) x E-4	(10 ± 5) x E-5
8	(-7 ± 4) x E-5	(4.1 ± 0.4) x E-4
9	(-2.178 ± 0.004) x E-2	(-9 ± 3) x E-5
10	(5.6 ± 50.0) x E-6	(4 ± 4) x E-5
11	(1.4 ± 0.5) x E-4	(-3 ± 7) x E-5
12	(-1 ± 3) x E-5	(-7 ± 6) x E-5
13	(-5.7 ± 18.1) x E-6	(8.8 ± 45.3) x E-6
14	(-2.5 ± 0.4) x E-4	(5.8 ± 0.5) x E-4
15	(-1.717 ± 0.005) x E-2	(-6 ± 8) x E-5