



BS-042

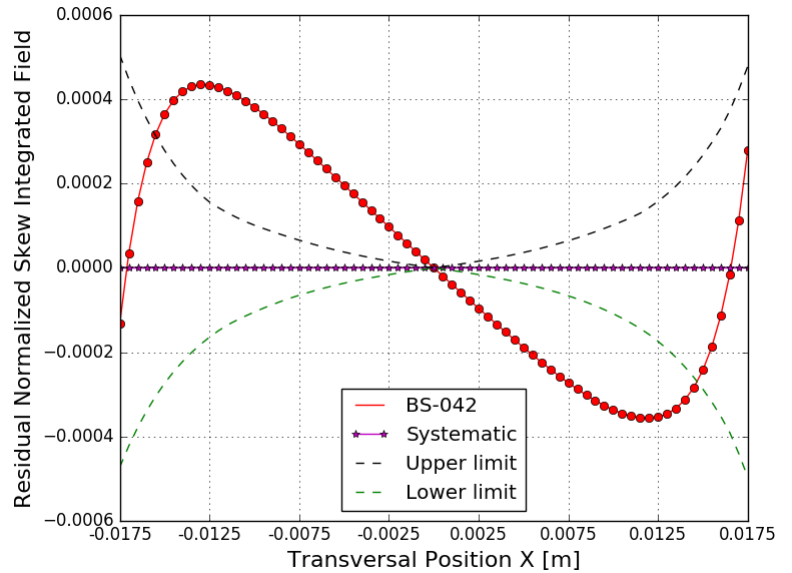
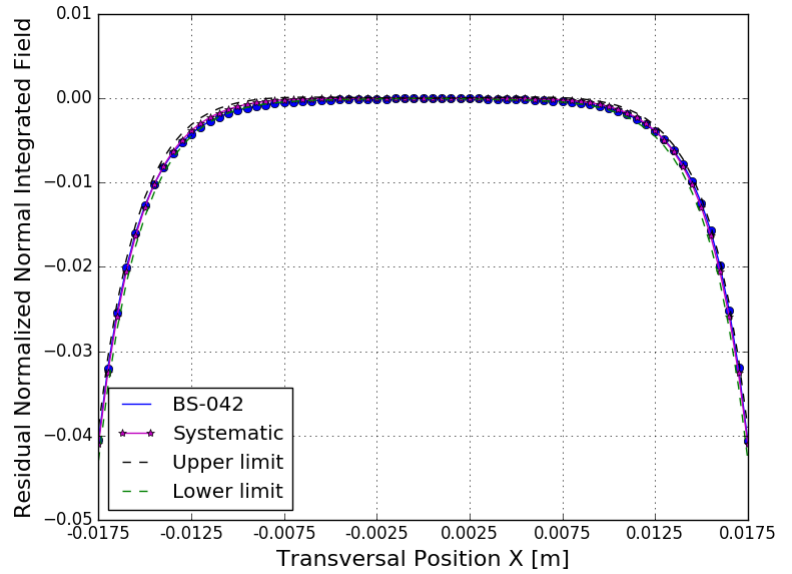
BOOSTER MAGNET REPORT

Results

Date	27/10/2016
Hour	09:40:59
Temperature [°C]	23.1
Number of Measurements	17
Main Coil Current [A]	(149.956 ± 0.001)
Trim Coil Current [A]	--
Integrated Gradient [T/m]	(-21.4271 ± 0.0007)
Magnet Center Offset X [μm] - (< ±160.0)	(15.0 ± 0.3)
Magnet Center Offset Y [μm] - (< ±160.0)	(-38.1 ± 0.3)
Roll [mrad] - (< ±0.8)	(-3.0 ± 0.3) × E-2

Electric Parameters

Inductance [mH]	0.106
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)	(-3.10 ± 0.02) × E-3	(-1.91 ± 0.03) × E-3
2 (quadrupole)	(1.71 ± 0.03) × E-3	(-4.36 ± 0.03) × E-3
3 (sextupole)	(1.00000 ± 0.00003)	(-9 ± 1) × E-5
4	(1.4 ± 0.3) × E-4	(-6.8 ± 0.3) × E-4
5	(-1.53 ± 0.01) × E-3	(4 ± 2) × E-5
6	(2.0 ± 0.4) × E-4	(2 ± 4) × E-5
7	(-3.3 ± 0.4) × E-4	(1.0 ± 0.6) × E-4
8	(-5 ± 5) × E-5	(3.8 ± 0.9) × E-4
9	(-2.171 ± 0.004) × E-2	(-3 ± 3) × E-5
10	(-4.7 ± 57.5) × E-6	(1.4 ± 53.8) × E-6
11	(7 ± 4) × E-5	(-5 ± 8) × E-5
12	(-4 ± 7) × E-5	(-2.9 ± 49.4) × E-6
13	(9.0 ± 41.6) × E-6	(2 ± 6) × E-5
14	(-2.6 ± 0.2) × E-4	(4.9 ± 0.6) × E-4
15	(-1.709 ± 0.007) × E-2	(-8.8 ± 29.0) × E-6