



S15-037

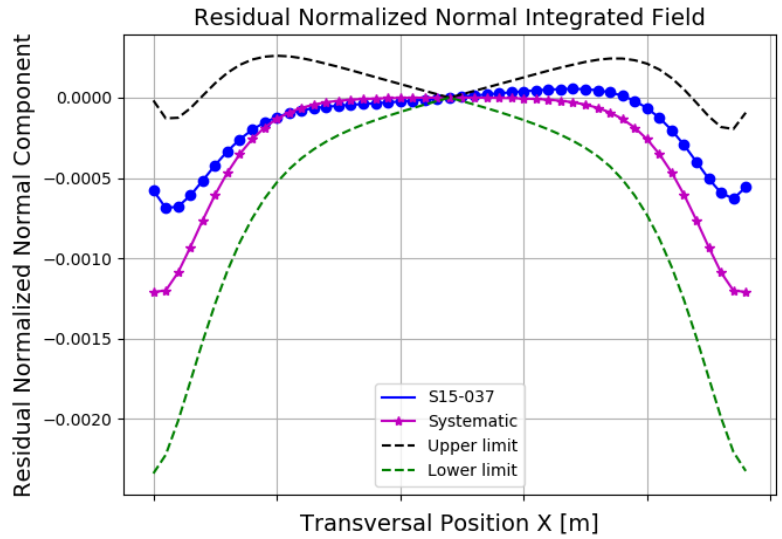
STORAGE RING MAGNET REPORT

Results

Date	13/08/2018
Hour	12:39:12
Temperature [°C]	23.36
Number of Measurements	9
Main Coil Current [A]	(167.799 ± 0.006)
Trim Coil Current [A]	(0 ± 0)
CH Coil Current [A]	(0 ± 0)
CV Coil Current [A]	(0 ± 0)
QS Coil Current [A]	(0 ± 0)
Integrated Gradient [T/m]	(-359.667 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(23.53 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(30.65 ± 0.03)
Roll [mrad] - (< ±0.3)	(2.92 ± 0.02) x E-1

Electric Parameters

Inductance [mH]	3.157
Voltage [V]	6.0106
Resistance [mΩ]	35.82
Main Coil Number of Turns	11.25



n	Normalized Normal Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	(-1.304 ± 0.005) x E-3	(-2 ± 5) x E-6
2 (quadrupole)	(-3.922 ± 0.003) x E-3	(-5.109 ± 0.005) x E-3
3 (sextupole)	(1.000000 ± 0.000009)	(8.76 ± 0.05) x E-4
4	(1.57 ± 0.04) x E-4	(7.87 ± 0.05) x E-4
5	(4.1 ± 0.3) x E-5	(3 ± 5) x E-6
6	(-1.38 ± 0.05) x E-4	(-1.7 ± 0.7) x E-5
7	(7.1 ± 0.6) x E-5	(-4.1 ± 0.3) x E-5
8	(3.3 ± 0.8) x E-5	(-5 ± 6) x E-6
9	(-2.000 ± 0.003) x E-3	(6.0 ± 0.7) x E-5
10	(-2 ± 6) x E-6	(-1.6 ± 0.6) x E-5
11	(1.6 ± 0.6) x E-5	(-9 ± 9) x E-6
12	(-3 ± 6) x E-6	(-4 ± 6) x E-6
13	(-1.3 ± 0.6) x E-5	(1.6 ± 0.6) x E-5
14	(-3.7 ± 0.8) x E-5	(-3.8 ± 0.7) x E-5
15	(1.317 ± 0.006) x E-3	(2 ± 6) x E-6

