



S15-058

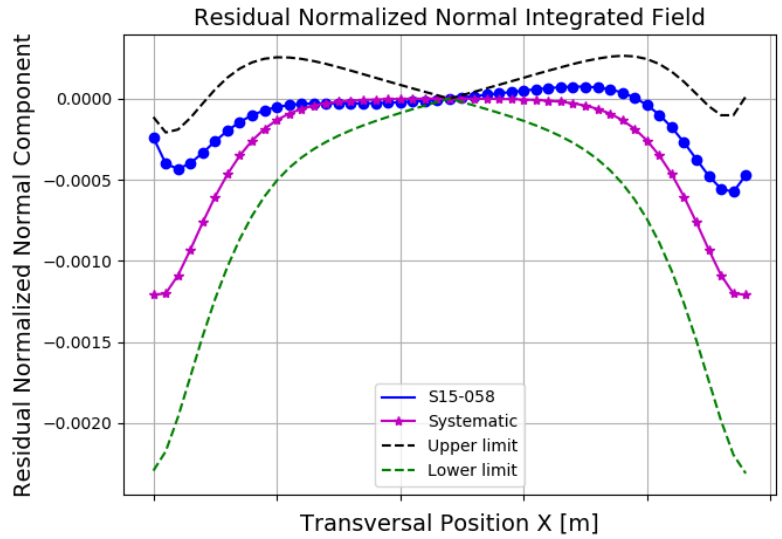
STORAGE RING MAGNET REPORT

Results

Date	16/07/2018
Hour	14:21:15
Temperature [°C]	23.46
Number of Measurements	9
Main Coil Current [A]	(167.7983 ± 0.0007)
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]	(-359.370 ± 0.005)
Magnet Center Offset X [μm] - (< ±40.0)	(17.68 ± 0.06)
Magnet Center Offset Y [μm] - (< ±40.0)	(24.6 ± 0.1)
Roll [mrad] - (< ±0.3)	(1.64 ± 0.05) 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)	(-6.8 ± 0.1) x E-4	(1.2 ± 0.2) x E-4
2 (quadrupole)	(-2.947 ± 0.009) x E-3	(-4.10 ± 0.02) x E-3
3 (sextupole)	(1.00000 ± 0.00002)	(4.9 ± 0.1) x E-4
4	(1.7 ± 0.2) x E-4	(3.7 ± 0.2) x E-4
5	(1.7 ± 0.2) x E-4	(-2.7 ± 0.2) x E-4
6	(-2.8 ± 0.2) x E-4	(-1 ± 3) x E-5
7	(1.0 ± 0.3) x E-4	(5 ± 2) x E-5
8	(-1 ± 2) x E-5	(4 ± 4) x E-5
9	(-2.04 ± 0.02) x E-3	(4.8 ± 0.2) x E-4
10	(2 ± 3) x E-5	(-5 ± 4) x E-5
11	(3 ± 2) x E-5	(-8.3 ± 21.1) x E-6
12	(-2 ± 2) x E-5	(1 ± 2) x E-5
13	(-4 ± 4) x E-5	(4 ± 2) x E-5
14	(-4.0 ± 23.9) x E-6	(-4 ± 2) x E-5
15	(1.42 ± 0.03) x E-3	(-5 ± 2) x E-5

