



S15-055

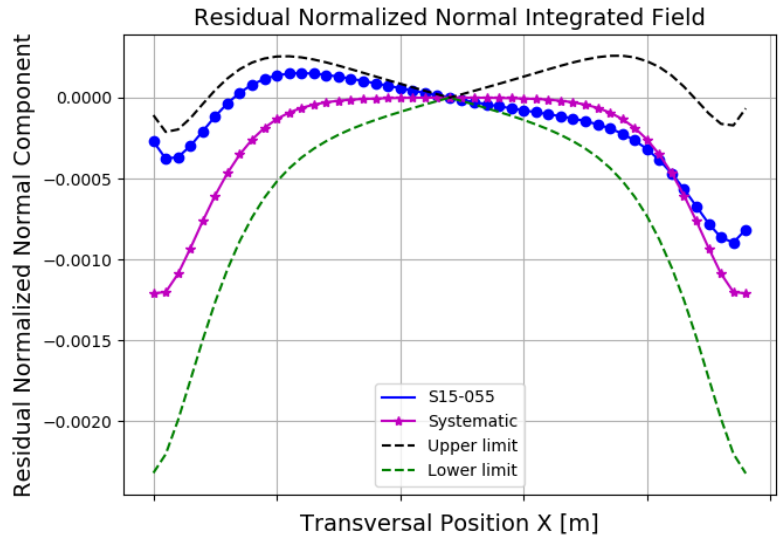
STORAGE RING MAGNET REPORT

Results

Date	29/06/2018
Hour	15:24:14
Temperature [°C]	24.07
Number of Measurements	9
Main Coil Current [A]	(167.7960 ± 0.0006)
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]	(-360.376 ± 0.001)
Magnet Center Offset X [μm] - (< ±40.0)	(21.86 ± 0.04)
Magnet Center Offset Y [μm] - (< ±40.0)	(23.81 ± 0.03)
Roll [mrad] - (< ±0.3)	(2.16 ± 0.01) 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)	(-3.28 ± 0.03) x E-4	(-7.31 ± 0.06) x E-4
2 (quadrupole)	(-3.643 ± 0.006) x E-3	(-3.969 ± 0.006) x E-3
3 (sextupole)	(1.000000 ± 0.000005)	(6.48 ± 0.04) x E-4
4	(-3.39 ± 0.05) x E-4	(-1.02 ± 0.08) x E-4
5	(8.7 ± 0.4) x E-5	(2.05 ± 0.05) x E-4
6	(8.6 ± 0.3) x E-5	(-2.5 ± 0.9) x E-5
7	(3.4 ± 0.4) x E-5	(-4.2 ± 0.6) x E-5
8	(2 ± 8) x E-6	(2.9 ± 0.7) x E-5
9	(-1.980 ± 0.006) x E-3	(7.2 ± 0.6) x E-5
10	(1.9 ± 0.6) x E-5	(1.1 ± 0.8) x E-5
11	(-3 ± 9) x E-6	(-1.6 ± 0.6) x E-5
12	(-8 ± 9) x E-6	(-2 ± 9) x E-6
13	(-1.0 ± 0.7) x E-5	(1.2 ± 0.5) x E-5
14	(-3.3 ± 0.8) x E-5	(-3.8 ± 0.6) x E-5
15	(1.330 ± 0.006) x E-3	(6 ± 8) x E-6

