



S15-020

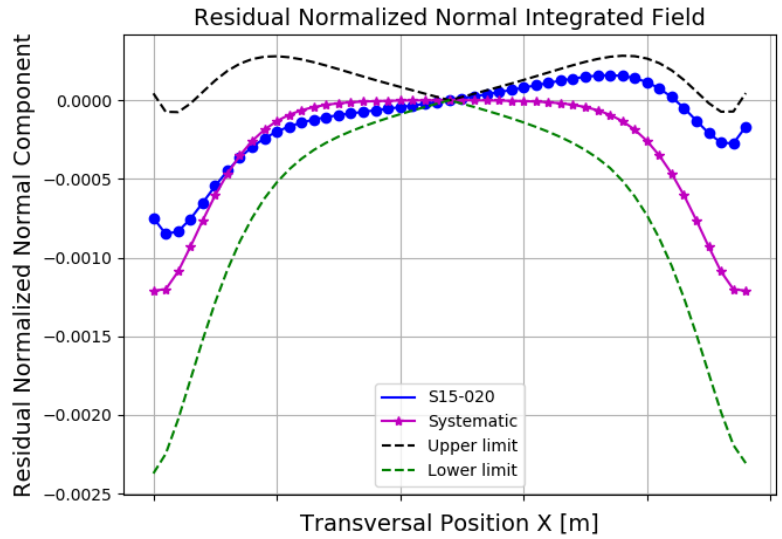
STORAGE RING MAGNET REPORT

Results

Date	17/08/2018
Hour	09:17:04
Temperature [°C]	23.637
Number of Measurements	9
Main Coil Current [A]	(167.797 ± 0.002)
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]	(-360.189 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(16.16 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(24.45 ± 0.04)
Roll [mrad] - (< ±0.3)	(2.79 ± 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)	(-6.58 ± 0.05) x E-4	(-3.8 ± 0.1) x E-4
2 (quadrupole)	(-2.693 ± 0.005) x E-3	(-4.075 ± 0.007) x E-3
3 (sextupole)	(1.000000 ± 0.000009)	(8.38 ± 0.07) x E-4
4	(2.83 ± 0.07) x E-4	(-6.6 ± 0.6) x E-5
5	(1.35 ± 0.08) x E-4	(5 ± 1) x E-5
6	(6 ± 1) x E-5	(-3.3 ± 0.6) x E-5
7	(8 ± 1) x E-5	(-7.2 ± 13.1) x E-6
8	(-7.6 ± 10.9) x E-6	(2 ± 1) x E-5
9	(-2.02 ± 0.01) x E-3	(1.4 ± 0.1) x E-4
10	(-9 ± 8) x E-6	(3.1 ± 11.8) x E-6
11	(3 ± 1) x E-5	(-3 ± 1) x E-5
12	(-2.8 ± 0.7) x E-5	(1.3 ± 0.9) x E-5
13	(-2 ± 1) x E-5	(1 ± 1) x E-5
14	(-1.4 ± 0.9) x E-5	(-4 ± 1) x E-5
15	(1.335 ± 0.009) x E-3	(8 ± 1) x E-5

