



S15-079

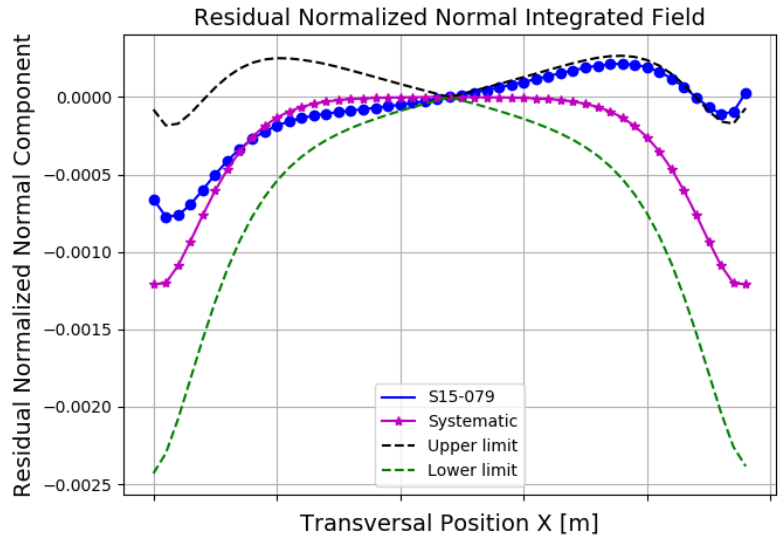
STORAGE RING MAGNET REPORT

Results

Date	10/08/2018
Hour	10:17:02
Temperature [°C]	23.344
Number of Measurements	9
Main Coil Current [A]	(167.798 ± 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]	(-359.827 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(28.28 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(27.33 ± 0.02)
Roll [mrad] - (< ±0.3)	(1.28 ± 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)	(-4.21 ± 0.03) x E-4	(-5.55 ± 0.02) x E-4
2 (quadrupole)	(-4.713 ± 0.004) x E-3	(-4.555 ± 0.003) x E-3
3 (sextupole)	(1.000000 ± 0.000008)	(3.84 ± 0.05) x E-4
4	(3.32 ± 0.03) x E-4	(-9.0 ± 0.4) x E-5
5	(2.33 ± 0.05) x E-4	(-1.05 ± 0.07) x E-4
6	(1.6 ± 0.4) x E-5	(-2.4 ± 0.8) x E-5
7	(9.7 ± 0.6) x E-5	(1.3 ± 0.6) x E-5
8	(5.6 ± 0.4) x E-5	(3.3 ± 0.7) x E-5
9	(-1.958 ± 0.006) x E-3	(5.0 ± 0.5) x E-5
10	(-1.0 ± 0.6) x E-5	(6 ± 9) x E-6
11	(6 ± 5) x E-6	(-7 ± 4) x E-6
12	(-1 ± 6) x E-6	(10 ± 6) x E-6
13	(-2.1 ± 0.6) x E-5	(1.3 ± 0.6) x E-5
14	(-4.9 ± 0.6) x E-5	(-3.7 ± 0.7) x E-5
15	(1.328 ± 0.006) x E-3	(1.0 ± 0.6) x E-5

