



S15-136

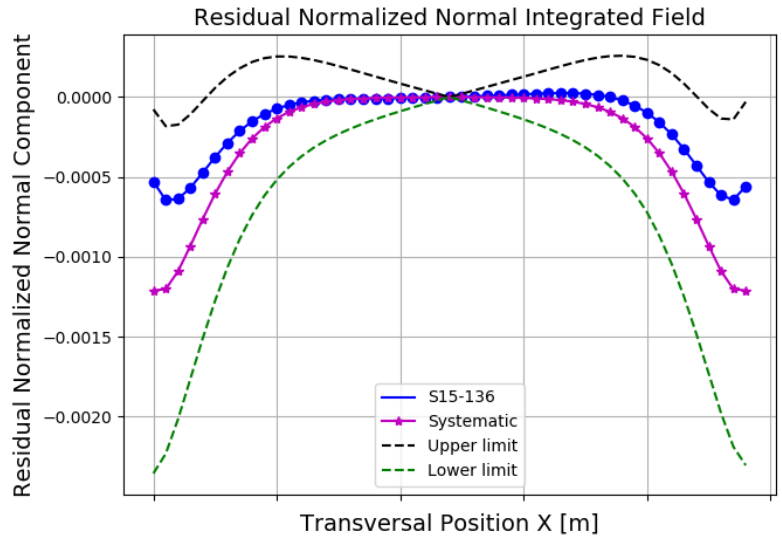
STORAGE RING MAGNET REPORT

Results

Date	14/08/2018
Hour	08:44:36
Temperature [°C]	23.412
Number of Measurements	9
Main Coil Current [A]	(167.799 ± 0.001)
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]	(-360.169 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(8.60 ± 0.01)
Magnet Center Offset Y [μm] - (< ±40.0)	(22.91 ± 0.02)
Roll [mrad] - (< ±0.3)	(1.72 ± 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⁾]
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1 (dipole)	(-10.0 ± 0.3) x E-5	(1.06 ± 0.05) x E-4
2 (quadrupole)	(-1.434 ± 0.002) x E-3	(-3.818 ± 0.004) x E-3
3 (sextupole)	(1.000000 ± 0.000010)	(5.17 ± 0.04) x E-4
4	(5.5 ± 0.2) x E-5	(-2 ± 5) x E-6
5	(8.1 ± 0.3) x E-5	(-6.1 ± 0.6) x E-5
6	(-3.5 ± 0.5) x E-5	(-5 ± 4) x E-6
7	(2.3 ± 0.3) x E-5	(-1.3 ± 0.3) x E-5
8	(1.2 ± 0.5) x E-5	(2.6 ± 0.4) x E-5
9	(-2.000 ± 0.004) x E-3	(1.88 ± 0.05) x E-4
10	(-1.1 ± 0.4) x E-5	(-2.2 ± 0.5) x E-5
11	(4 ± 3) x E-6	(8 ± 4) x E-6
12	(-8 ± 6) x E-6	(-8.2 ± 40.3) x E-7
13	(-3.2 ± 42.8) x E-7	(1.3 ± 0.6) x E-5
14	(-2.8 ± 0.5) x E-5	(-3.1 ± 0.5) x E-5
15	(1.349 ± 0.004) x E-3	(-8.8 ± 0.3) x E-5

