



S15-094

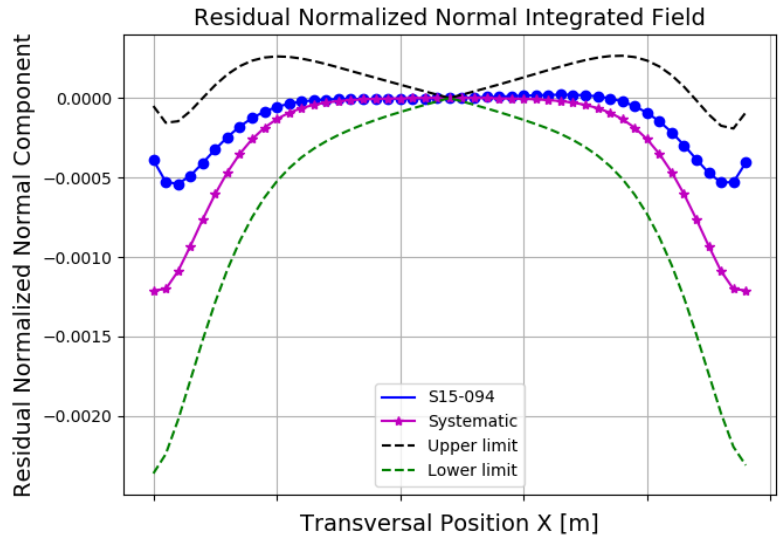
STORAGE RING MAGNET REPORT

Results

Date	13/08/2018
Hour	17:40:36
Temperature [°C]	23.313
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]	(-360.468 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(3.61 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(23.91 ± 0.02)
Roll [mrad] - (< ±0.3)	(2.355 ± 0.008) 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)	(-6.79 ± 0.04) x E-4	(-1.05 ± 0.05) x E-4
2 (quadrupole)	(-6.01 ± 0.05) x E-4	(-3.984 ± 0.004) x E-3
3 (sextupole)	(1.000000 ± 0.000010)	(7.06 ± 0.02) x E-4
4	(4.2 ± 0.4) x E-5	(2.70 ± 0.05) x E-4
5	(8.0 ± 0.4) x E-5	(6.8 ± 0.4) x E-5
6	(-3.4 ± 0.3) x E-5	(-3.9 ± 0.5) x E-5
7	(4.9 ± 0.6) x E-5	(-2.3 ± 0.6) x E-5
8	(-1.2 ± 0.5) x E-5	(2.2 ± 0.4) x E-5
9	(-1.880 ± 0.002) x E-3	(1.11 ± 0.04) x E-4
10	(9 ± 6) x E-6	(-1.6 ± 0.4) x E-5
11	(1.5 ± 0.4) x E-5	(3 ± 4) x E-6
12	(2 ± 5) x E-6	(4 ± 6) x E-6
13	(-1 ± 5) x E-6	(1.4 ± 0.4) x E-5
14	(-1.6 ± 0.5) x E-5	(-2.6 ± 0.5) x E-5
15	(1.340 ± 0.006) x E-3	(-2.9 ± 0.4) x E-5

