



S15-107

STORAGE RING MAGNET REPORT

Results

Date 28/08/2018

Hour 16:02:23

Temperature [°C] 23.31

Number of Measurements 9

Main Coil Current [A] (167.7987 ± 0.0009)

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] (-360.143 ± 0.001)

Magnet Center Offset X [μm] - (< ±40.0) (8.07 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (19.8 ± 0.2)

Roll [mrad] - (< ±0.3) (-3.4 ± 0.8) × E-2

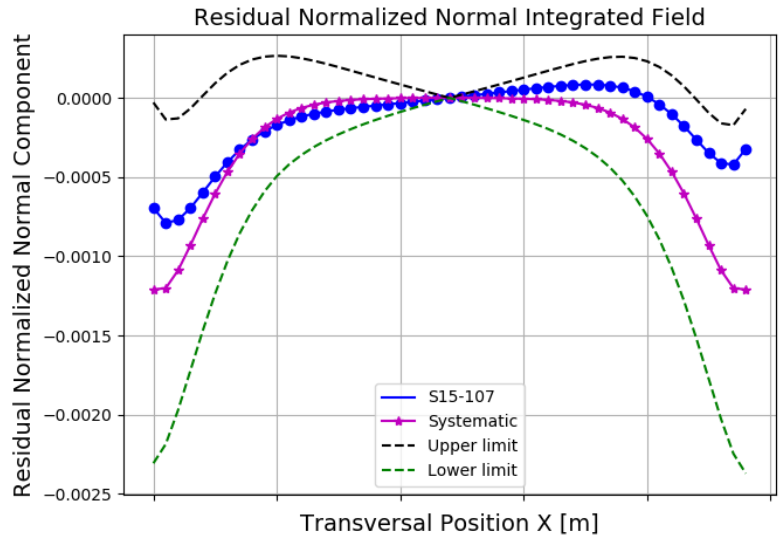
Electric Parameters

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)	(-9.95 ± 0.07) × E-4	(-3.4 ± 0.2) × E-4
2 (quadrupole)	(-1.345 ± 0.003) × E-3	(-3.29 ± 0.03) × E-3
3 (sextupole)	(1.000000 ± 0.000005)	(-1.0 ± 0.2) × E-4
4	(2.01 ± 0.05) × E-4	(-1.4 ± 0.2) × E-4
5	(3.3 ± 0.5) × E-5	(9 ± 2) × E-5
6	(2 ± 5) × E-6	(-2 ± 2) × E-5
7	(5.9 ± 0.4) × E-5	(2.8 ± 13.6) × E-6
8	(1.0 ± 0.4) × E-5	(3 ± 1) × E-5
9	(-1.866 ± 0.005) × E-3	(3.1 ± 0.1) × E-4
10	(-2 ± 1) × E-5	(-6.4 ± 12.0) × E-6
11	(1 ± 1) × E-5	(-3 ± 3) × E-5
12	(2.0 ± 13.9) × E-6	(1 ± 1) × E-5
13	(-1 ± 1) × E-5	(-7 ± 9) × E-6
14	(-1.3 ± 0.8) × E-5	(-2 ± 2) × E-5
15	(1.27 ± 0.02) × E-3	(-1.2 ± 0.2) × E-4

