



S15-277

STORAGE RING MAGNET REPORT

Results

Date 28/08/2018

Hour 11:15:45

Temperature [°C] 23.47

Number of Measurements 9

Main Coil Current [A] (167.798 ± 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] (-359.928 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (9.88 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (24.92 ± 0.04)

Roll [mrad] - (< ±0.3) (8.2 ± 0.2) × E-2

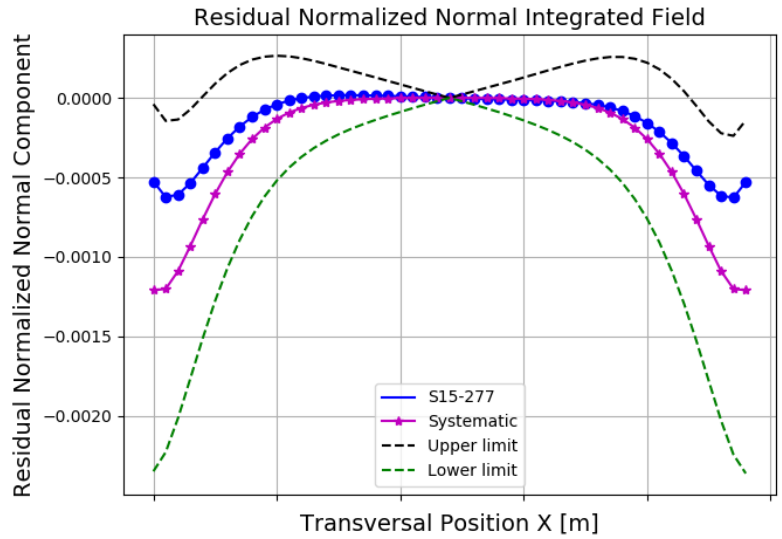
Electric Parameters

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)	(-6.21 ± 0.04) × E-4	(7.0 ± 0.8) × E-5
2 (quadrupole)	(-1.646 ± 0.005) × E-3	(-4.154 ± 0.007) × E-3
3 (sextupole)	(1.000000 ± 0.000008)	(2.46 ± 0.07) × E-4
4	(-6.0 ± 0.3) × E-5	(2.82 ± 0.07) × E-4
5	(1.6 ± 0.4) × E-5	(2.02 ± 0.09) × E-4
6	(6.7 ± 0.5) × E-5	(-4 ± 6) × E-6
7	(3.9 ± 0.6) × E-5	(-5.2 ± 0.6) × E-5
8	(9 ± 4) × E-6	(3.7 ± 0.7) × E-5
9	(-1.866 ± 0.005) × E-3	(2.64 ± 0.06) × E-4
10	(7 ± 6) × E-6	(-7 ± 6) × E-6
11	(2.6 ± 0.4) × E-5	(-2.9 ± 0.8) × E-5
12	(-5 ± 8) × E-6	(-2.3 ± 12.9) × E-6
13	(-1.4 ± 0.4) × E-5	(9 ± 4) × E-6
14	(-2 ± 1) × E-5	(-4.1 ± 0.6) × E-5
15	(1.273 ± 0.010) × E-3	(-9.5 ± 0.5) × E-5

