



S15-075

STORAGE RING MAGNET REPORT

Results

Date 09/08/2018

Hour 14:47:23

Temperature [°C] 23.435

Number of Measurements 9

Main Coil Current [A] (167.799 ± 0.005)

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] (-359.608 ± 0.006)

Magnet Center Offset X [μm] - (< ±40.0) (32.95 ± 0.01)

Magnet Center Offset Y [μm] - (< ±40.0) (30.68 ± 0.03)

Roll [mrad] - (< ±0.3) (7 ± 1) × E-3

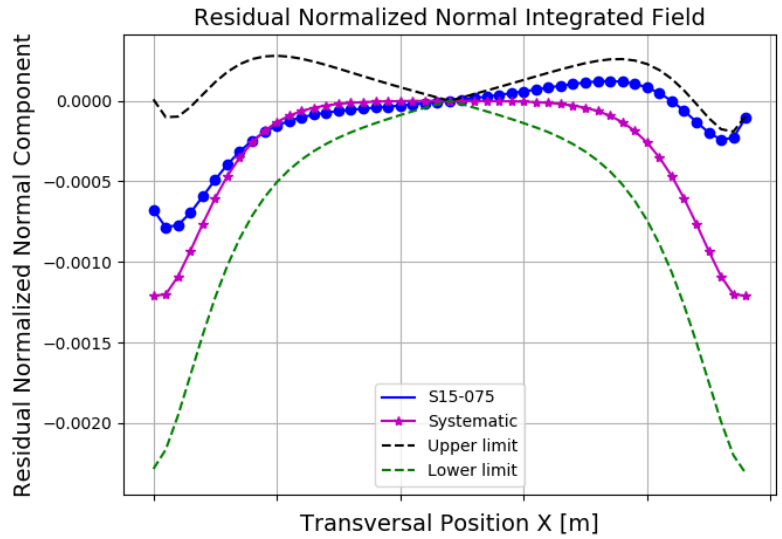
Electric Parameters

Inductance [mH] 3.157

Voltage [V] 6.0106

Resistance [mΩ] 35.82

Main Coil Number of Turns 11.25



Normalized Normal Multipoles
x=12.0 mm
[T.m⁽²⁻ⁿ⁾]

Normalized Skew Multipoles
x=12.0 mm
[T.m⁽²⁻ⁿ⁾]

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)	(-1.020 ± 0.004) × E-3	(-3.85 ± 0.05) × E-4
2 (quadrupole)	(-5.491 ± 0.002) × E-3	(-5.114 ± 0.004) × E-3
3 (sextupole)	(1.00000 ± 0.00002)	(2.1 ± 0.4) × E-5
4	(1.95 ± 0.02) × E-4	(2.45 ± 0.05) × E-4
5	(1.32 ± 0.05) × E-4	(2.72 ± 0.04) × E-4
6	(9.9 ± 0.4) × E-5	(-2.9 ± 0.4) × E-5
7	(9.9 ± 0.5) × E-5	(-8.6 ± 0.4) × E-5
8	(5.0 ± 0.5) × E-5	(9 ± 6) × E-6
9	(-1.937 ± 0.004) × E-3	(3.5 ± 0.5) × E-5
10	(-2 ± 4) × E-6	(4 ± 4) × E-6
11	(8 ± 4) × E-6	(-1.2 ± 0.3) × E-5
12	(-2 ± 3) × E-6	(9.633 ± 6230.048) × E-9
13	(-2.4 ± 0.5) × E-5	(1.9 ± 0.6) × E-5
14	(-5.3 ± 0.5) × E-5	(-4.4 ± 0.6) × E-5
15	(1.332 ± 0.004) × E-3	(4 ± 5) × E-6

