



S15-233

STORAGE RING MAGNET REPORT

Results

Date 26/07/2018

Hour 11:26:13

Temperature [°C] 23.578

Number of Measurements 9

Main Coil Current [A] (167.7977 ± 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] (-359.252 ± 0.007)

Magnet Center Offset X [μm] - (< ±40.0) (14.47 ± 0.08)

Magnet Center Offset Y [μm] - (< ±40.0) (22.0 ± 0.1)

Roll [mrad] - (< ±0.3) (2 ± 2) × E-2

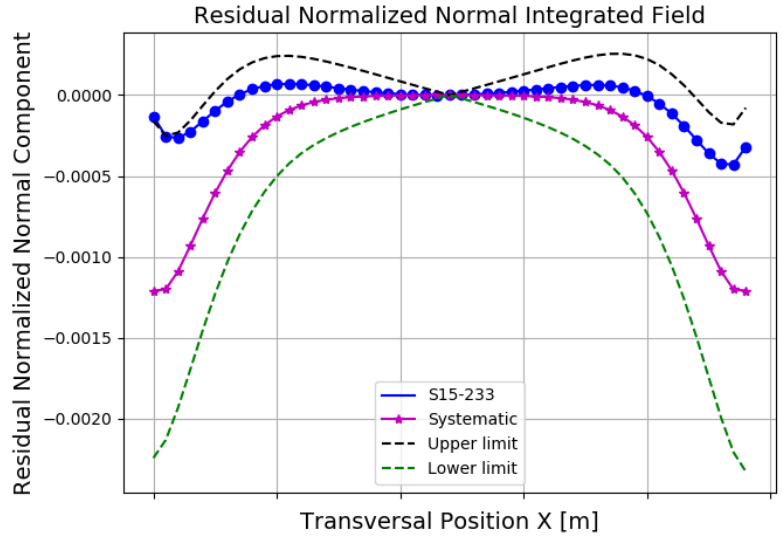
Electric Parameters

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)	(-4.2 ± 0.1) × E-4	(7.9 ± 0.2) × E-4
2 (quadrupole)	(-2.41 ± 0.01) × E-3	(-3.67 ± 0.02) × E-3
3 (sextupole)	(1.00000 ± 0.00003)	(6 ± 5) × E-5
4	(3 ± 3) × E-5	(-1.3 ± 0.5) × E-4
5	(3.6 ± 0.2) × E-4	(-1.7 ± 0.3) × E-4
6	(-10 ± 4) × E-5	(2 ± 3) × E-5
7	(9 ± 4) × E-5	(-2 ± 3) × E-5
8	(-8 ± 2) × E-5	(4 ± 4) × E-5
9	(-1.93 ± 0.04) × E-3	(7.4 ± 0.6) × E-4
10	(-9.7 ± 32.1) × E-6	(-1 ± 5) × E-5
11	(-3 ± 2) × E-5	(5.3 ± 59.6) × E-6
12	(5 ± 6) × E-5	(-3 ± 4) × E-5
13	(-3 ± 4) × E-5	(3 ± 2) × E-5
14	(1 ± 3) × E-5	(-9.7 ± 48.1) × E-6
15	(1.32 ± 0.04) × E-3	(-3 ± 4) × E-5

