



S15-054

STORAGE RING MAGNET REPORT

Results

Date 02/07/2018

Hour 13:43:29

Temperature [°C] 24.201

Number of Measurements 9

Main Coil Current [A] (167.798 ± 0.008)

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] (-359.569 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (14.55 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (20.82 ± 0.03)

Roll [mrad] - (< ±0.3) (2.8 ± 0.3) × 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) (-1.143 ± 0.007) × E-3 (-4.05 ± 0.08) × E-4

2 (quadrupole) (-2.424 ± 0.003) × E-3 (-3.470 ± 0.005) × E-3

3 (sextupole) (1.000000 ± 0.000007) (8 ± 1) × E-5

4 (10 ± 1) × E-5 (9 ± 8) × E-6

5 (2.68 ± 0.06) × E-4 (9.2 ± 0.7) × E-5

6 (6.8 ± 0.7) × E-5 (-2.3 ± 0.9) × E-5

7 (1.20 ± 0.08) × E-4 (-2.9 ± 0.7) × E-5

8 (7 ± 8) × E-6 (2.5 ± 0.9) × E-5

9 (-2.00 ± 0.01) × E-3 (8 ± 1) × E-5

10 (-2.1 ± 11.3) × E-6 (3.3 ± 12.4) × E-6

11 (1.0 ± 0.6) × E-5 (-1.5 ± 0.8) × E-5

12 (-2.2 ± 0.7) × E-5 (-9.162 ± 1192.928) × E-8

13 (-5.9 ± 10.3) × E-6 (7.8 ± 12.8) × E-6

14 (-2.0 ± 0.8) × E-5 (-4 ± 1) × E-5

15 (1.335 ± 0.009) × E-3 (1.5 ± 0.9) × E-5

