



S15-077

STORAGE RING MAGNET REPORT

Results

Date 12/07/2018

Hour 08:24:32

Temperature [°C] 22.905

Number of Measurements 9

Main Coil Current [A] (167.798 ± 0.002)

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] (-359.240 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (22.15 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (32.08 ± 0.04)

Roll [mrad] - (< ±0.3) (-9.4 ± 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) (-2.2 ± 0.3) × E-5 (1.11 ± 0.05) × E-4

2 (quadrupole) (-3.692 ± 0.004) × E-3 (-5.347 ± 0.007) × E-3

3 (sextupole) (1.000000 ± 0.000009) (-2.81 ± 0.10) × E-4

4 (2.1 ± 0.1) × E-4 (-9.6 ± 0.8) × E-5

5 (5.15 ± 0.08) × E-4 (3.8 ± 0.9) × E-5

6 (-1.3 ± 0.1) × E-4 (1 ± 1) × E-5

7 (1.60 ± 0.08) × E-4 (-5 ± 1) × E-5

8 (4.7 ± 0.9) × E-5 (3 ± 1) × E-5

9 (-1.921 ± 0.007) × E-3 (1.83 ± 0.07) × E-4

10 (-1.9 ± 10.4) × E-6 (4.8 ± 93.1) × E-7

11 (-2.1 ± 0.7) × E-5 (-1 ± 1) × E-5

12 (-3.1 ± 12.9) × E-6 (-1.1 ± 0.6) × E-5

13 (-1.9 ± 0.9) × E-5 (7 ± 7) × E-6

14 (-4.5 ± 0.6) × E-5 (-6.6 ± 0.8) × E-5

15 (1.304 ± 0.006) × E-3 (2.0 ± 0.9) × E-5

