



S15-029

STORAGE RING MAGNET REPORT

Results

Date 15/08/2018

Hour 12:11:34

Temperature [°C] 23.315

Number of Measurements 9

Main Coil Current [A] (167.796 ± 0.003)

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] (-360.977 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (4.72 ± 0.07)

Magnet Center Offset Y [μm] - (< ±40.0) (20.9 ± 0.1)

Roll [mrad] - (< ±0.3) (-2 ± 9) × E-3

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) (-6.67 ± 0.06) × E-4 (9.7 ± 0.2) × E-4

2 (quadrupole) (-7.9 ± 0.1) × E-4 (-3.48 ± 0.02) × E-3

3 (sextupole) (1.00000 ± 0.00001) (-6.5 ± 27.0) × E-6

4 (4.1 ± 0.1) × E-4 (1.8 ± 0.2) × E-4

5 (1.4 ± 0.2) × E-4 (-1.1 ± 0.2) × E-4

6 (-6 ± 2) × E-5 (1.1 ± 12.1) × E-6

7 (4 ± 2) × E-5 (-3 ± 1) × E-5

8 (3 ± 2) × E-5 (3 ± 2) × E-5

9 (-2.02 ± 0.01) × E-3 (2.8 ± 0.2) × E-4

10 (-6.5 ± 15.4) × E-6 (-2.3 ± 14.4) × E-6

11 (1 ± 2) × E-5 (1 ± 2) × E-5

12 (5.9 ± 15.1) × E-6 (-3 ± 1) × E-5

13 (7.3 ± 15.0) × E-6 (1 ± 2) × E-5

14 (-2.8 ± 17.2) × E-6 (-4 ± 2) × E-5

15 (1.373 ± 0.005) × E-3 (-1 ± 2) × E-5

