



S15-019

STORAGE RING MAGNET REPORT

Results

Date 30/08/2018

Hour 15:04:29

Temperature [°C] 23.183

Number of Measurements 9

Main Coil Current [A] (167.798 ± 0.001)

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] (-360.095 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (13.40 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (29.95 ± 0.08)

Roll [mrad] - (< ±0.3) (-8.6 ± 0.5) × 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) (-1.09 ± 0.05) × E-4 (7 ± 1) × E-5

2 (quadrupole) (-2.233 ± 0.005) × E-3 (-4.99 ± 0.01) × E-3

3 (sextupole) (1.000000 ± 0.000008) (-2.6 ± 0.2) × E-4

4 (3.68 ± 0.04) × E-4 (2.92 ± 0.09) × E-4

5 (2.62 ± 0.07) × E-4 (5.13 ± 0.10) × E-4

6 (-2.4 ± 0.7) × E-5 (-10 ± 8) × E-6

7 (1.08 ± 0.05) × E-4 (-1.32 ± 0.09) × E-4

8 (3.9 ± 0.7) × E-5 (3.7 ± 0.7) × E-5

9 (-1.874 ± 0.008) × E-3 (2.70 ± 0.08) × E-4

10 (-1.5 ± 0.6) × E-5 (5 ± 9) × E-6

11 (2.4 ± 0.8) × E-5 (-2 ± 1) × E-5

12 (-1.3 ± 0.8) × E-5 (9.3 ± 12.0) × E-6

13 (-1.6 ± 0.4) × E-5 (1.6 ± 0.9) × E-5

14 (-4.2 ± 0.7) × E-5 (-3 ± 1) × E-5

15 (1.255 ± 0.008) × E-3 (-1.2 ± 0.1) × E-4

