



S15-028

## STORAGE RING MAGNET REPORT

### Results

Date 04/09/2018

Hour 09:47:40

Temperature [°C] 23.393

Number of Measurements 9

Main Coil Current [A] (167.7988 ± 0.0010)

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] (-359.607 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (27.39 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (28.2 ± 0.2)

Roll [mrad] - (< ±0.3) (7.3 ± 0.9) × 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<sup>(2-n)</sup>]

Normalized  
Skew  
Multipoles  
x=12.0 mm  
[T.m<sup>(2-n)</sup>]

1 (dipole) (-9.54 ± 0.07) × E-4 (5.1 ± 0.3) × E-4

2 (quadrupole) (-4.565 ± 0.003) × E-3 (-4.70 ± 0.03) × E-3

3 (sextupole) (1.000000 ± 0.000010) (2.2 ± 0.3) × E-4

4 (3.68 ± 0.03) × E-4 (10 ± 3) × E-5

5 (1.52 ± 0.09) × E-4 (-1.7 ± 0.2) × E-4

6 (-1.5 ± 0.1) × E-4 (-4.0 ± 25.8) × E-6

7 (9 ± 1) × E-5 (2 ± 2) × E-5

8 (6.7 ± 0.8) × E-5 (4 ± 2) × E-5

9 (-1.78 ± 0.01) × E-3 (3.7 ± 0.2) × E-4

10 (-3 ± 1) × E-5 (-6.5 ± 18.2) × E-6

11 (-1.5 ± 85.7) × E-7 (-2 ± 2) × E-5

12 (9.3 ± 14.4) × E-6 (-2 ± 2) × E-5

13 (-3.3 ± 1.0) × E-5 (1.2 ± 16.6) × E-6

14 (-4.4 ± 0.6) × E-5 (-4 ± 1) × E-5

15 (1.23 ± 0.01) × E-3 (-1.3 ± 0.2) × E-4

