



S15-261

## STORAGE RING MAGNET REPORT

### Results

Date 07/07/2018

Hour 10:06:34

Temperature [°C] 23.664

Number of Measurements 9

Main Coil Current [A] (167.799 ± 0.007)

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] (-359.866 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (11.93 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (34.16 ± 0.03)

Roll [mrad] - (< ±0.3) (-7.9 ± 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<sup>(2-n)</sup>]

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

1 (dipole) (-4.40 ± 0.07) × E-4 (3.32 ± 0.08) × E-4

2 (quadrupole) (-1.988 ± 0.003) × E-3 (-5.693 ± 0.006) × E-3

3 (sextupole) (1.000000 ± 0.000010) (-2.37 ± 0.09) × E-4

4 (1.03 ± 0.07) × E-4 (2.55 ± 0.07) × E-4

5 (8.7 ± 0.6) × E-5 (-2.09 ± 0.08) × E-4

6 (-2.5 ± 11.3) × E-6 (-2 ± 10) × E-6

7 (3.8 ± 1.0) × E-5 (7.1 ± 0.9) × E-5

8 (2.8 ± 0.9) × E-5 (8 ± 1) × E-5

9 (-1.92 ± 0.01) × E-3 (2.3 ± 0.1) × E-4

10 (3.8 ± 0.9) × E-5 (-2.9 ± 1.0) × E-5

11 (1 ± 1) × E-5 (1.01 ± 142.33) × E-7

12 (-4 ± 9) × E-6 (-6.7 ± 13.9) × E-6

13 (-1.3 ± 0.9) × E-5 (1.3 ± 12.1) × E-6

14 (-2 ± 1) × E-5 (-5 ± 1) × E-5

15 (1.300 ± 0.006) × E-3 (-4.2 ± 0.8) × E-5

