



S15-202

## STORAGE RING MAGNET REPORT

### Results

Date 08/08/2018

Hour 12:40:06

Temperature [°C] 23.611

Number of Measurements 9

Main Coil Current [A] (167.7989 ± 0.0006)

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] (-360.159 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (2.319 ± 0.010)

Magnet Center Offset Y [μm] - (< ±40.0) (20.82 ± 0.06)

Roll [mrad] - (< ±0.3) (-1.2 ± 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) (-6.87 ± 0.04) × E-4 (5.93 ± 0.06) × E-4

2 (quadrupole) (-3.87 ± 0.02) × E-4 (-3.471 ± 0.010) × E-3

3 (sextupole) (1.000000 ± 0.000008) (-3.7 ± 0.8) × E-5

4 (9 ± 4) × E-6 (-1.54 ± 0.06) × E-4

5 (2.26 ± 0.06) × E-4 (-8.7 ± 0.6) × E-5

6 (2.4 ± 0.4) × E-5 (-9 ± 6) × E-6

7 (9.0 ± 0.8) × E-5 (-2.7 ± 0.9) × E-5

8 (-2.2 ± 0.7) × E-5 (3.5 ± 1.0) × E-5

9 (-2.004 ± 0.005) × E-3 (3.2 ± 0.7) × E-5

10 (6 ± 5) × E-6 (2.9 ± 0.6) × E-5

11 (-1.4 ± 0.7) × E-5 (7 ± 6) × E-6

12 (-1.1 ± 0.8) × E-5 (-1.1 ± 0.8) × E-5

13 (-9 ± 6) × E-6 (1.4 ± 0.7) × E-5

14 (7 ± 6) × E-6 (-3.2 ± 0.6) × E-5

15 (1.324 ± 0.008) × E-3 (2.4 ± 0.4) × E-5

