



S15-174

## STORAGE RING MAGNET REPORT

### Results

Date 04/07/2018

Hour 10:54:39

Temperature [°C] 23.664

Number of Measurements 9

Main Coil Current [A] (167.7978 ± 0.0007)

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] (-359.949 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (13.56 ± 0.04)

Magnet Center Offset Y [μm] - (< ±40.0) (32.16 ± 0.05)

Roll [mrad] - (< ±0.3) (-1.5 ± 0.4) × 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) (1.82 ± 0.05) × E-4 (-2.24 ± 0.08) × E-4

2 (quadrupole) (-2.260 ± 0.007) × E-3 (-5.359 ± 0.008) × E-3

3 (sextupole) (1.00000 ± 0.00001) (-4 ± 1) × E-5

4 (1.89 ± 0.05) × E-4 (1.57 ± 0.09) × E-4

5 (1.30 ± 0.05) × E-4 (1.35 ± 0.09) × E-4

6 (-10 ± 1) × E-5 (-3.0 ± 0.5) × E-5

7 (2 ± 1) × E-5 (-3 ± 2) × E-5

8 (2 ± 2) × E-5 (3 ± 1) × E-5

9 (-1.98 ± 0.01) × E-3 (2.4 ± 0.1) × E-4

10 (-1.3 ± 0.9) × E-5 (-5.7 ± 12.4) × E-6

11 (-1.9 ± 92.6) × E-7 (-2.5 ± 0.7) × E-5

12 (-1.2 ± 0.9) × E-5 (2.0 ± 0.5) × E-5

13 (5.9 ± 18.7) × E-6 (1 ± 1) × E-5

14 (-2.8 ± 0.9) × E-5 (-5 ± 1) × E-5

15 (1.33 ± 0.02) × E-3 (-5 ± 1) × E-5

