



S15-117

## STORAGE RING MAGNET REPORT

### Results

Date 09/08/2018

Hour 11:44:29

Temperature [°C] 23.624

Number of Measurements 9

Main Coil Current [A] (167.797 ± 0.003)

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] (-359.969 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (9.19 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (21.90 ± 0.04)

Roll [mrad] - (< ±0.3) (6.0 ± 0.2) × 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) (-5.61 ± 0.04) × E-4 (8.51 ± 0.08) × E-4

2 (quadrupole) (-1.531 ± 0.004) × E-3 (-3.650 ± 0.006) × E-3

3 (sextupole) (1.00000 ± 0.00001) (1.80 ± 0.07) × E-4

4 (9.8 ± 0.4) × E-5 (-2.2 ± 0.3) × E-5

5 (6.8 ± 0.7) × E-5 (-6.8 ± 0.9) × E-5

6 (-2.13 ± 0.08) × E-4 (1.0 ± 0.6) × E-5

7 (-7 ± 8) × E-6 (-3.3 ± 0.5) × E-5

8 (8 ± 8) × E-6 (2.3 ± 0.8) × E-5

9 (-1.994 ± 0.004) × E-3 (3.9 ± 0.6) × E-5

10 (-7.4 ± 78.9) × E-7 (1.6 ± 0.6) × E-5

11 (-10 ± 6) × E-6 (1.1 ± 0.7) × E-5

12 (1.4 ± 0.4) × E-5 (1 ± 8) × E-6

13 (-4.63 ± 515.51) × E-8 (1.8 ± 0.8) × E-5

14 (-1.9 ± 0.6) × E-5 (-3.2 ± 0.6) × E-5

15 (1.333 ± 0.005) × E-3 (7 ± 6) × E-6

