



S15-095

## STORAGE RING MAGNET REPORT

### Results

Date 31/07/2018

Hour 15:18:42

Temperature [°C] 23.249

Number of Measurements 9

Main Coil Current [A] (167.800 ± 0.001)

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] (-360.117 ± 0.004)

Magnet Center Offset X [μm] - (< ±40.0) (8.55 ± 0.06)

Magnet Center Offset Y [μm] - (< ±40.0) (24.70 ± 0.07)

Roll [mrad] - (< ±0.3) (4.8 ± 0.7) × 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) (8.5 ± 0.8) × E-5 (-2.8 ± 0.1) × E-4

2 (quadrupole) (-1.43 ± 0.01) × E-3 (-4.12 ± 0.01) × E-3

3 (sextupole) (1.00000 ± 0.00001) (1.4 ± 0.2) × E-4

4 (1.1 ± 0.6) × E-5 (1.5 ± 0.1) × E-4

5 (3.2 ± 0.1) × E-4 (2.7 ± 0.2) × E-4

6 (-5 ± 2) × E-5 (-1 ± 2) × E-5

7 (7 ± 1) × E-5 (-9 ± 2) × E-5

8 (-2 ± 2) × E-5 (5 ± 3) × E-5

9 (-1.86 ± 0.02) × E-3 (5.9 ± 0.2) × E-4

10 (5 ± 1) × E-5 (-3.1 ± 27.8) × E-6

11 (-1 ± 2) × E-5 (-4 ± 2) × E-5

12 (2.8 ± 15.9) × E-6 (6.4 ± 15.4) × E-6

13 (-2 ± 3) × E-5 (3 ± 2) × E-5

14 (3 ± 1) × E-5 (-5 ± 2) × E-5

15 (1.405 ± 0.010) × E-3 (-5 ± 2) × E-5

