



# S15-204

## STORAGE RING MAGNET REPORT

### Results

Date 02/08/2018

Hour 12:03:08

Temperature [°C] 23.343

Number of Measurements 9

Main Coil Current [A] (167.799 ± 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] (-359.557 ± 0.008)

Magnet Center Offset X [μm] - (< ±40.0) (15.3 ± 0.1)

Magnet Center Offset Y [μm] - (< ±40.0) (22.8 ± 0.3)

Roll [mrad] - (< ±0.3) (6 ± 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) (-7.86 ± 0.09) × E-4 (5.2 ± 0.5) × E-4

2 (quadrupole) (-2.55 ± 0.02) × E-3 (-3.79 ± 0.05) × E-3

3 (sextupole) (1.00000 ± 0.00003) (1.7 ± 0.5) × E-4

4 (9 ± 4) × E-5 (1.4 ± 0.5) × E-4

5 (2.3 ± 0.4) × E-4 (3 ± 5) × E-5

6 (-8 ± 5) × E-5 (3 ± 5) × E-5

7 (8 ± 4) × E-5 (-2 ± 5) × E-5

8 (6 ± 2) × E-5 (3 ± 4) × E-5

9 (-2.08 ± 0.04) × E-3 (8.4 ± 0.3) × E-4

10 (1 ± 5) × E-5 (-1 ± 3) × E-5

11 (6.4 ± 50.7) × E-6 (1 ± 7) × E-5

12 (6 ± 7) × E-5 (-3 ± 4) × E-5

13 (2 ± 4) × E-5 (-5.7 ± 62.1) × E-6

14 (-4 ± 4) × E-5 (-5 ± 5) × E-5

15 (1.69 ± 0.03) × E-3 (7.0 ± 54.0) × E-6

