



# S15-199

## STORAGE RING MAGNET REPORT

### Results

Date 02/08/2018

Hour 12:41:24

Temperature [°C] 23.383

Number of Measurements 9

Main Coil Current [A] (167.798 ± 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] (-359.771 ± 0.005)

Magnet Center Offset X [μm] - (< ±40.0) (15.25 ± 0.07)

Magnet Center Offset Y [μm] - (< ±40.0) (24.2 ± 0.1)

Roll [mrad] - (< ±0.3) (-7.4 ± 0.9) × 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) (6.3 ± 1.0) × E-5 (-5.2 ± 0.2) × E-4

2 (quadrupole) (-2.54 ± 0.01) × E-3 (-4.04 ± 0.02) × E-3

3 (sextupole) (1.00000 ± 0.00002) (-2.2 ± 0.3) × E-4

4 (2.9 ± 0.2) × E-4 (1.6 ± 0.3) × E-4

5 (2.8 ± 0.2) × E-4 (7 ± 2) × E-5

6 (3 ± 4) × E-5 (5.0 ± 34.2) × E-6

7 (5 ± 3) × E-5 (-8.64 ± 453.21) × E-7

8 (5 ± 3) × E-5 (-6.62 ± 255.70) × E-7

9 (-1.96 ± 0.03) × E-3 (8.7 ± 0.3) × E-4

10 (-3 ± 4) × E-5 (-5 ± 4) × E-5

11 (5 ± 3) × E-5 (-2 ± 4) × E-5

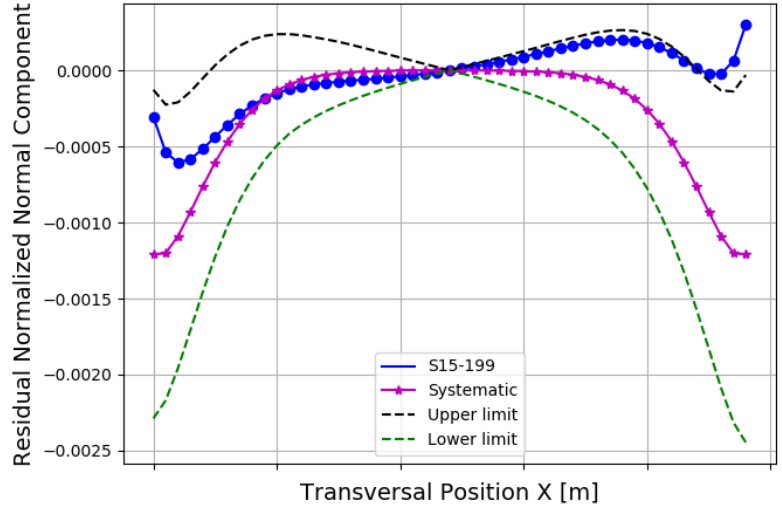
12 (3 ± 5) × E-5 (-2 ± 4) × E-5

13 (6.79 ± 313.30) × E-7 (2 ± 3) × E-5

14 (-7 ± 4) × E-5 (-3 ± 4) × E-5

15 (1.58 ± 0.03) × E-3 (-1.5 ± 0.4) × E-4

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

