



S15-179

STORAGE RING MAGNET REPORT

Results

Date 04/09/2018

Hour 16:15:16

Temperature [°C] 23.537

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] (-360.065 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (17.96 ± 0.04)

Magnet Center Offset Y [μm] - (< ±40.0) (34.3 ± 0.1)

Roll [mrad] - (< ±0.3) (-8.8 ± 0.5) × 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) (9.3 ± 0.5) × E-5 (-10 ± 2) × E-5

2 (quadrupole) (-2.993 ± 0.006) × E-3 (-5.72 ± 0.02) × E-3

3 (sextupole) (1.000000 ± 0.000007) (-2.6 ± 0.2) × E-4

4 (-2.39 ± 0.04) × E-4 (2.8 ± 0.2) × E-4

5 (2.25 ± 0.06) × E-4 (1.2 ± 0.2) × E-4

6 (2.1 ± 0.5) × E-5 (-6.8 ± 19.0) × E-6

7 (8.2 ± 0.8) × E-5 (-3 ± 1) × E-5

8 (1.9 ± 0.6) × E-5 (5 ± 1) × E-5

9 (-1.822 ± 0.008) × E-3 (4.2 ± 0.1) × E-4

10 (-1.8 ± 0.4) × E-5 (2.7 ± 10.9) × E-6

11 (-1 ± 9) × E-6 (-4.0 ± 10.5) × E-6

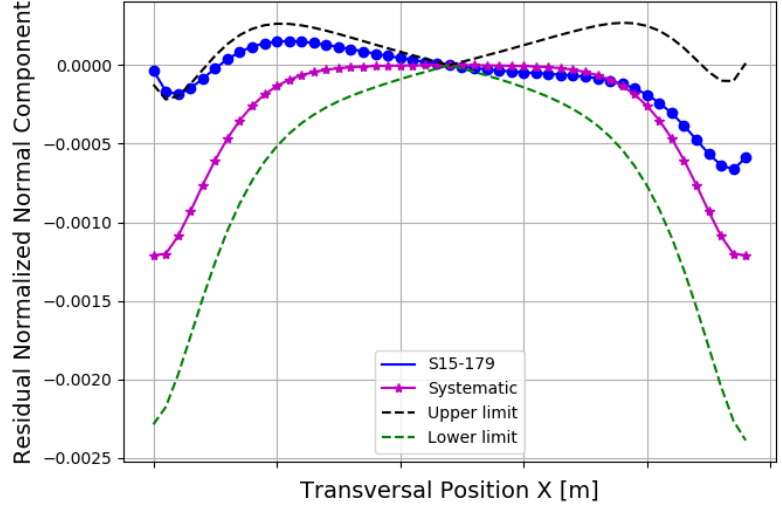
12 (-2.4 ± 0.9) × E-5 (2 ± 2) × E-5

13 (-1.9 ± 0.8) × E-5 (8 ± 7) × E-6

14 (-3.7 ± 0.7) × E-5 (-4.9 ± 0.4) × E-5

15 (1.223 ± 0.006) × E-3 (-1.75 ± 0.07) × E-4

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

