



S15-278

## STORAGE RING MAGNET REPORT

### Results

Date 12/07/2018

Hour 14:44:27

Temperature [°C] 23.005

Number of Measurements 9

Main Coil Current [A] (167.7980 ± 0.0006)

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] (-360.047 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (11.57 ± 0.07)

Magnet Center Offset Y [μm] - (< ±40.0) (19.46 ± 0.04)

Roll [mrad] - (< ±0.3) (-4 ± 7) × E-3

### 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) (5.3 ± 0.5) × E-5 (8.15 ± 0.07) × E-4

2 (quadrupole) (-1.93 ± 0.01) × E-3 (-3.243 ± 0.007) × E-3

3 (sextupole) (1.00000 ± 0.00001) (-1 ± 2) × E-5

4 (4.3 ± 0.1) × E-4 (-8 ± 1) × E-5

5 (2.8 ± 0.1) × E-4 (-3.5 ± 0.1) × E-4

6 (-10 ± 2) × E-5 (-4.4 ± 22.8) × E-6

7 (5 ± 1) × E-5 (4 ± 2) × E-5

8 (4 ± 2) × E-5 (8.4 ± 16.5) × E-6

9 (-2.00 ± 0.02) × E-3 (3.7 ± 0.2) × E-4

10 (2.4 ± 18.1) × E-6 (1 ± 1) × E-5

11 (-8.4 ± 21.6) × E-6 (-5.2 ± 19.7) × E-6

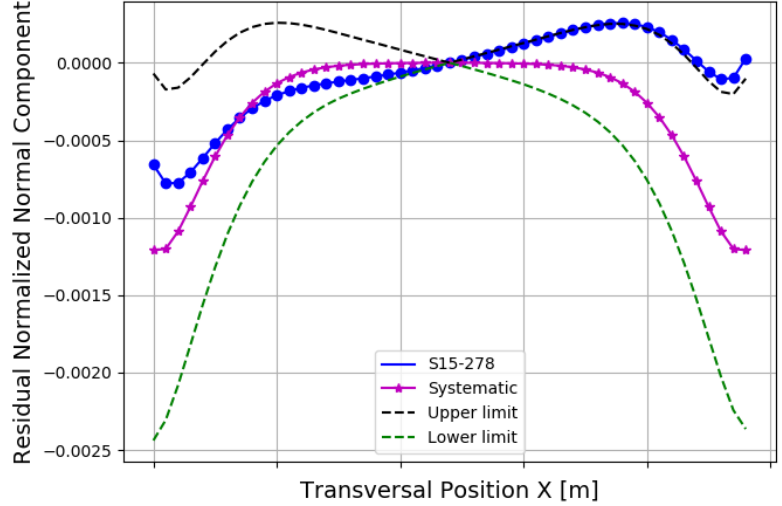
12 (5.8 ± 19.8) × E-6 (3 ± 2) × E-5

13 (-6.0 ± 14.2) × E-6 (6.2 ± 18.2) × E-6

14 (-4 ± 2) × E-5 (-2 ± 3) × E-5

15 (1.37 ± 0.02) × E-3 (5 ± 1) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

