



S15-134

## STORAGE RING MAGNET REPORT

### Results

Date 27/07/2018

Hour 11:58:25

Temperature [°C] 23.473

Number of Measurements 9

Main Coil Current [A] (167.7976 ± 0.0009)

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] (-359.648 ± 0.004)

Magnet Center Offset X [μm] - (< ±40.0) (9.32 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (21.78 ± 0.08)

Roll [mrad] - (< ±0.3) (1.34 ± 0.05) x E-1

### 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)

(-2.8 ± 0.5) x E-5

(6 ± 1) x E-5

2 (quadrupole)

(-1.554 ± 0.005) x E-3

(-3.63 ± 0.01) x E-3

3 (sextupole)

(1.00000 ± 0.00002)

(4.0 ± 0.1) x E-4

4

(4.51 ± 0.09) x E-4

(7 ± 2) x E-5

5

(3.20 ± 0.09) x E-4

(2 ± 2) x E-5

6

(-4 ± 2) x E-5

(-1 ± 1) x E-5

7

(9 ± 2) x E-5

(-6 ± 2) x E-5

8

(3 ± 1) x E-5

(-6.2 ± 15.3) x E-6

9

(-1.86 ± 0.01) x E-3

(5.4 ± 0.1) x E-4

10

(3 ± 2) x E-5

(3 ± 1) x E-5

11

(3 ± 1) x E-5

(3 ± 2) x E-5

12

(2 ± 2) x E-5

(8.5 ± 13.1) x E-6

13

(-8.9 ± 20.8) x E-6

(6.8 ± 19.1) x E-6

14

(8.8 ± 13.4) x E-6

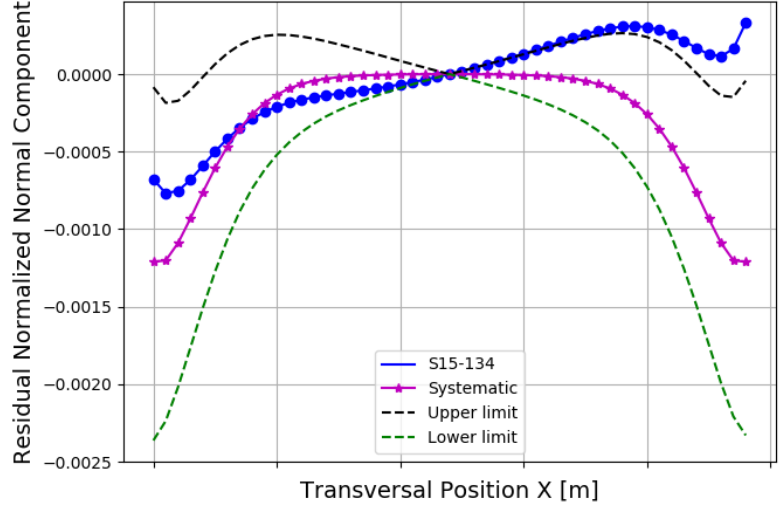
(-3.2 ± 15.8) x E-6

15

(1.26 ± 0.02) x E-3

(-5 ± 3) x E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

