



S15-286

## STORAGE RING MAGNET REPORT

### Results

Date 19/07/2018

Hour 12:16:56

Temperature [°C] 23.663

Number of Measurements 9

Main Coil Current [A] (167.796 ± 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] (-359.848 ± 0.004)

Magnet Center Offset X [μm] - (< ±40.0) (11.91 ± 0.06)

Magnet Center Offset Y [μm] - (< ±40.0) (25.22 ± 0.09)

Roll [mrad] - (< ±0.3) (8 ± 1) × E-2

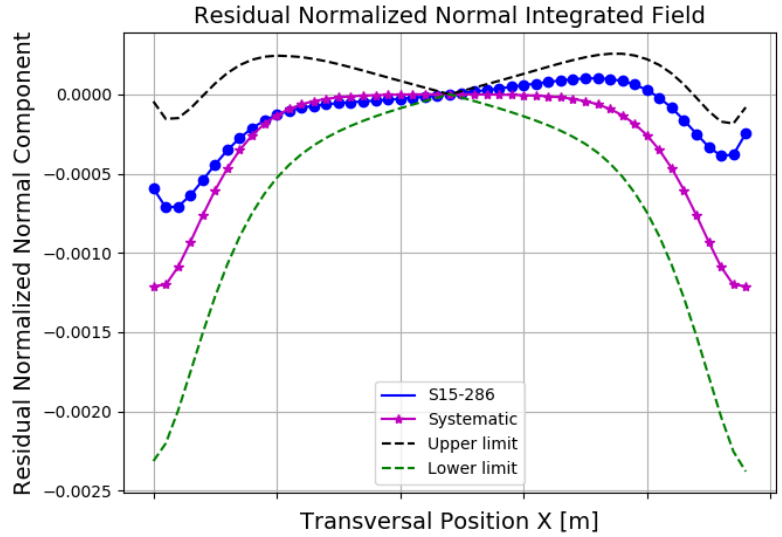
### Electric Parameters

Inductance [mH] 3.157

Voltage [V] 6.0106

Resistance [mΩ] 35.82

Main Coil Number of Turns 11.25



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>]

n

1 (dipole)

(-5.93 ± 0.06) × E-4

(1.4 ± 0.1) × E-4

2 (quadrupole)

(-1.985 ± 0.009) × E-3

(-4.20 ± 0.01) × E-3

3 (sextupole)

(1.00000 ± 0.00001)

(2.5 ± 0.3) × E-4

4

(2.0 ± 0.1) × E-4

(-2 ± 2) × E-5

5

(1.4 ± 0.2) × E-4

(-7 ± 2) × E-5

6

(-4 ± 2) × E-5

(2 ± 3) × E-5

7

(5 ± 2) × E-5

(-1.6 ± 23.2) × E-6

8

(6 ± 9) × E-6

(2 ± 1) × E-5

9

(-2.04 ± 0.01) × E-3

(3.2 ± 0.2) × E-4

10

(10.0 ± 18.5) × E-6

(9.6 ± 22.1) × E-6

11

(2 ± 2) × E-5

(1.56 ± 215.84) × E-7

12

(2 ± 2) × E-5

(-2.7 ± 15.9) × E-6

13

(-3.5 ± 93.2) × E-7

(2 ± 2) × E-5

14

(-2 ± 2) × E-5

(-5 ± 3) × E-5

15

(1.40 ± 0.01) × E-3

(5 ± 2) × E-5

