



S15-208

STORAGE RING MAGNET REPORT

Results

Date 08/08/2018

Hour 11:54:18

Temperature [°C] 23.595

Number of Measurements 9

Main Coil Current [A] (167.7983 ± 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] (-359.612 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (17.81 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (30.34 ± 0.04)

Roll [mrad] - (< ±0.3) (6.5 ± 0.1) × 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⁽²⁻ⁿ⁾]

Normalized
Skew
Multipoles
x=12.0 mm
[T.m⁽²⁻ⁿ⁾]

1 (dipole) (-1.255 ± 0.008) × E-3 (-6.68 ± 0.06) × E-4

2 (quadrupole) (-2.968 ± 0.004) × E-3 (-5.057 ± 0.007) × E-3

3 (sextupole) (1.00000 ± 0.00001) (1.96 ± 0.03) × E-4

4 (-1.51 ± 0.04) × E-4 (3.57 ± 0.07) × E-4

5 (1.5 ± 0.6) × E-5 (2.13 ± 0.05) × E-4

6 (-1.0 ± 0.6) × E-5 (-1.4 ± 0.5) × E-5

7 (7.1 ± 0.6) × E-5 (-5.6 ± 0.6) × E-5

8 (2 ± 4) × E-6 (2.4 ± 0.8) × E-5

9 (-2.044 ± 0.006) × E-3 (3.0 ± 0.4) × E-5

10 (3 ± 4) × E-6 (-6 ± 5) × E-6

11 (1.0 ± 0.5) × E-5 (-2.0 ± 0.5) × E-5

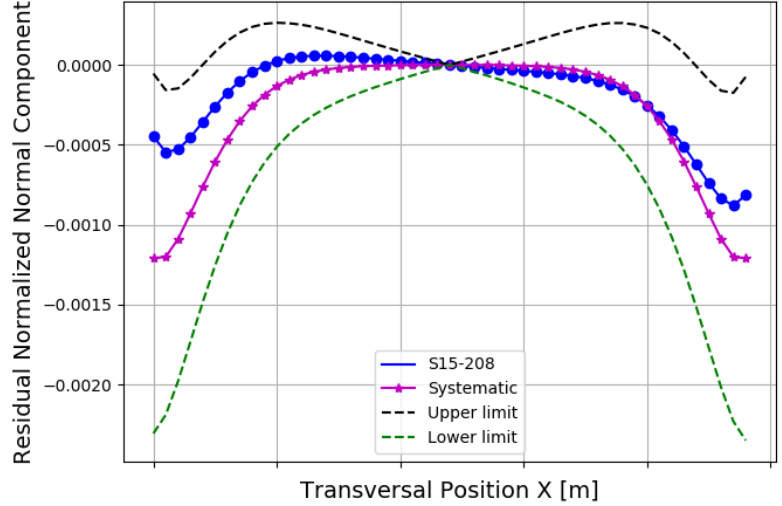
12 (-1 ± 5) × E-6 (-3.5 ± 53.3) × E-7

13 (-1.6 ± 0.7) × E-5 (1.7 ± 0.4) × E-5

14 (-2.7 ± 0.6) × E-5 (-4.4 ± 0.6) × E-5

15 (1.334 ± 0.002) × E-3 (1.5 ± 0.5) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

