



S15-114

## STORAGE RING MAGNET REPORT

### Results

Date 17/08/2018

Hour 13:12:23

Temperature [°C] 23.538

Number of Measurements 9

Main Coil Current [A] (167.7976 ± 0.0008)

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] (-360.125 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (11.56 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (19.3 ± 0.1)

Roll [mrad] - (< ±0.3) (2.7 ± 0.6) × E-2

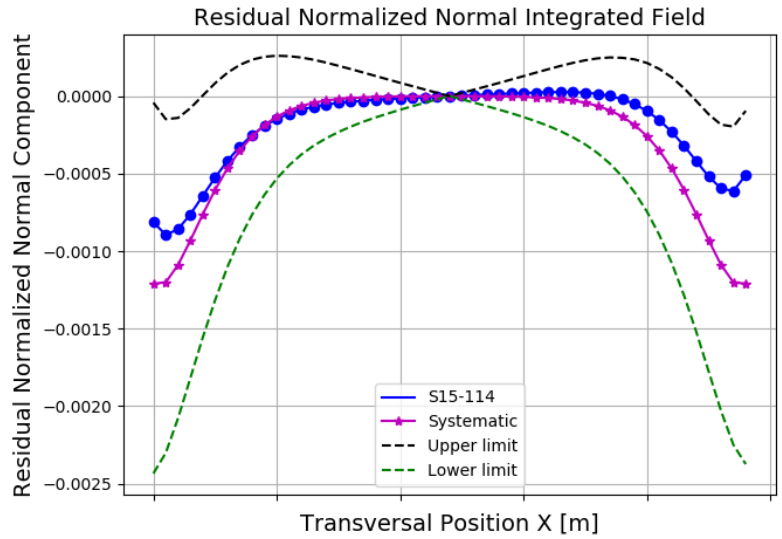
### Electric Parameters

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	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)	(-9.86 ± 0.07) × E-4	(4 ± 2) × E-5
2 (quadrupole)	(-1.927 ± 0.005) × E-3	(-3.22 ± 0.02) × E-3
3 (sextupole)	(1.00000 ± 0.00001)	(8 ± 2) × E-5
4	(8.4 ± 0.5) × E-5	(-1.2 ± 0.2) × E-4
5	(-3 ± 1) × E-5	(-2.7 ± 22.5) × E-6
6	(7 ± 1) × E-5	(-2 ± 2) × E-5
7	(5 ± 2) × E-5	(-2 ± 2) × E-5
8	(1 ± 1) × E-5	(5 ± 2) × E-5
9	(-2.05 ± 0.02) × E-3	(2.1 ± 0.1) × E-4
10	(-3.1 ± 15.0) × E-6	(-3 ± 1) × E-5
11	(2.3 ± 11.8) × E-6	(1.3 ± 1.0) × E-5
12	(-1 ± 1) × E-5	(-7.1 ± 18.4) × E-6
13	(-2 ± 1) × E-5	(-1.7 ± 13.3) × E-6
14	(2 ± 9) × E-6	(-4 ± 1) × E-5
15	(1.39 ± 0.01) × E-3	(6 ± 3) × E-5

