



S15-048

## STORAGE RING MAGNET REPORT

### Results

Date 29/06/2018

Hour 12:39:24

Temperature [°C] 24.071

Number of Measurements 9

Main Coil Current [A] (167.7973 ± 0.0007)

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] (-359.610 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (28.59 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (29.58 ± 0.04)

Roll [mrad] - (< ±0.3) (3.3 ± 0.2) × E-2

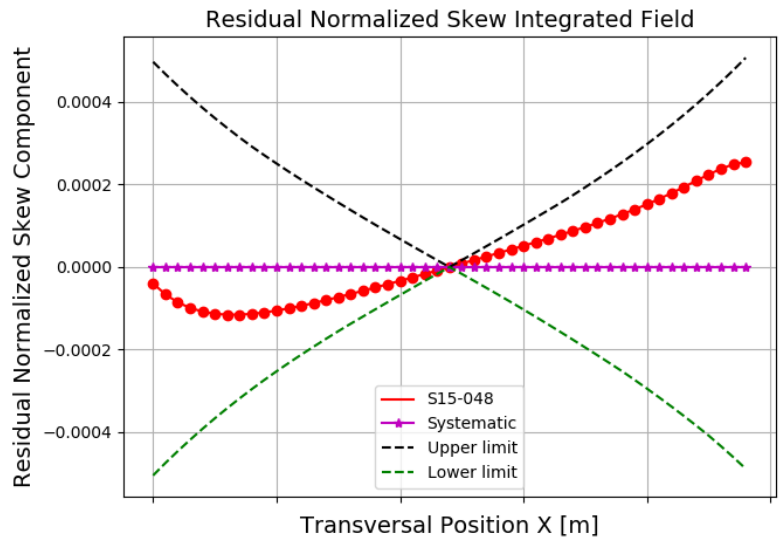
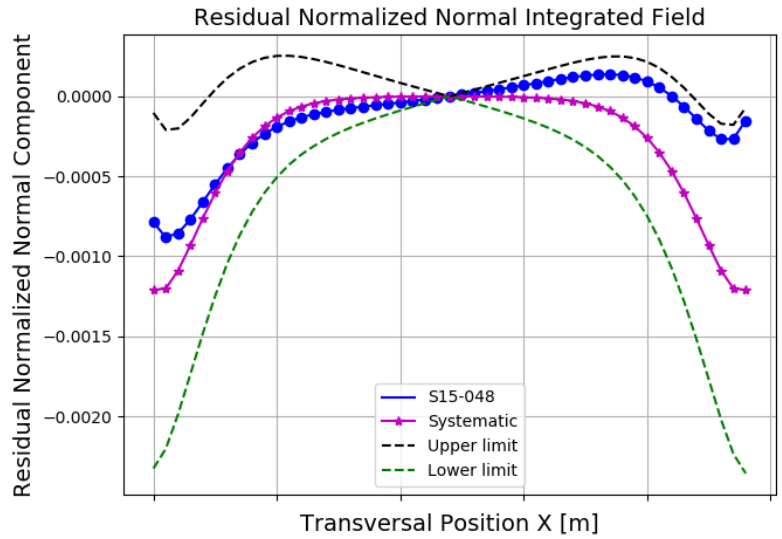
### Electric Parameters

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 <sup>(2-n)</sup> ]	Normalized Skew Multipoles x=12.0 mm [T.m <sup>(2-n)</sup> ]
1 (dipole)	(-7.35 ± 0.04) × E-4	(-6.27 ± 0.06) × E-4
2 (quadrupole)	(-4.765 ± 0.003) × E-3	(-4.929 ± 0.006) × E-3
3 (sextupole)	(1.000000 ± 0.000009)	(10.0 ± 0.7) × E-5
4	(2.44 ± 0.05) × E-4	(2.03 ± 0.06) × E-4
5	(1.18 ± 0.04) × E-4	(1.4 ± 0.5) × E-5
6	(8.8 ± 0.8) × E-5	(-1.1 ± 0.7) × E-5
7	(6.1 ± 0.4) × E-5	(2.0 ± 0.4) × E-5
8	(3.5 ± 0.3) × E-5	(1.9 ± 0.9) × E-5
9	(-1.97 ± 0.01) × E-3	(1.14 ± 0.08) × E-4
10	(-6 ± 7) × E-6	(-2.4 ± 0.8) × E-5
11	(6 ± 6) × E-6	(-2.3 ± 1.0) × E-5
12	(-5 ± 7) × E-6	(6 ± 8) × E-6
13	(-1.6 ± 0.7) × E-5	(4 ± 9) × E-6
14	(-3.8 ± 0.9) × E-5	(-4.6 ± 0.6) × E-5
15	(1.331 ± 0.008) × E-3	(-2.3 ± 0.6) × E-5