



S15-052

## STORAGE RING MAGNET REPORT

### Results

Date 31/08/2018

Hour 11:00:28

Temperature [°C] 23.386

Number of Measurements 9

Main Coil Current [A] (167.798 ± 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] (-359.133 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (25.39 ± 0.01)

Magnet Center Offset Y [μm] - (< ±40.0) (30.0 ± 0.1)

Roll [mrad] - (< ±0.3) (4.7 ± 0.9) × E-2

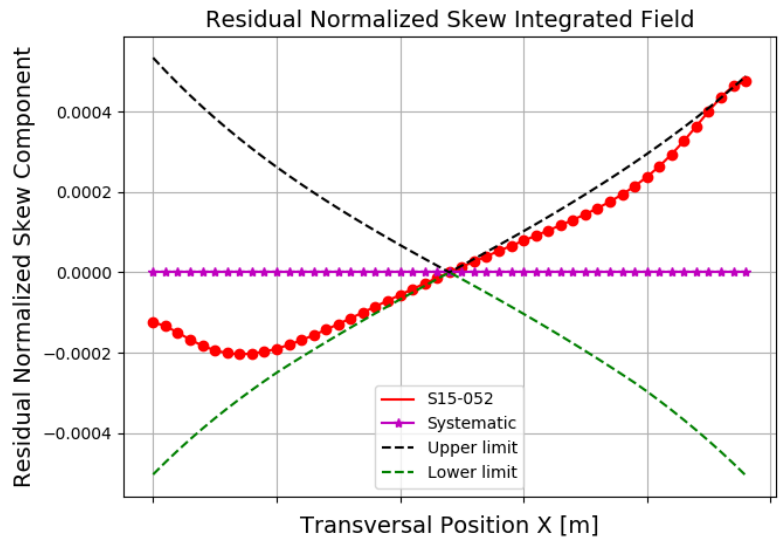
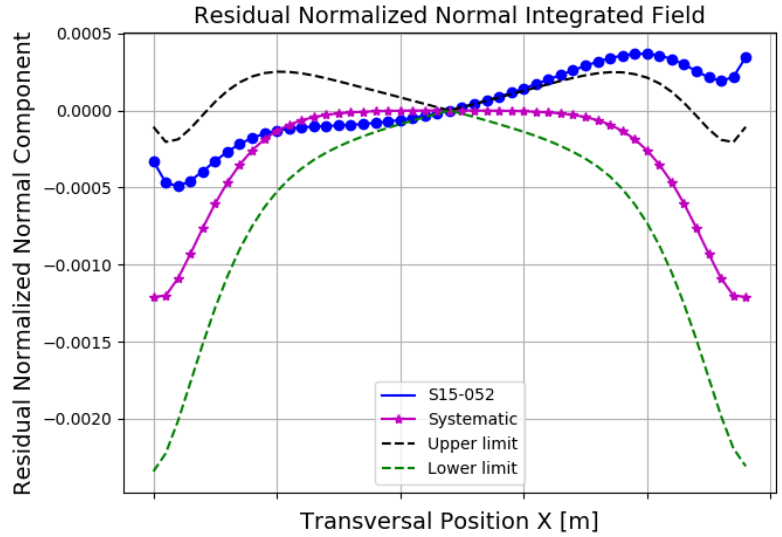
### Electric Parameters

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)	(-5.00 ± 0.04) × E-4	(-4.6 ± 0.3) × E-4
2 (quadrupole)	(-4.232 ± 0.002) × E-3	(-5.01 ± 0.02) × E-3
3 (sextupole)	(1.000000 ± 0.000009)	(1.4 ± 0.3) × E-4
4	(4.54 ± 0.06) × E-4	(3.3 ± 0.2) × E-4
5	(4.88 ± 0.10) × E-4	(-6 ± 2) × E-5
6	(-1.32 ± 0.07) × E-4	(-1.2 ± 20.5) × E-6
7	(1.55 ± 0.07) × E-4	(5 ± 2) × E-5
8	(7.5 ± 0.6) × E-5	(2 ± 1) × E-5
9	(-1.85 ± 0.01) × E-3	(4.1 ± 0.1) × E-4
10	(-2.5 ± 14.4) × E-6	(-1 ± 2) × E-5
11	(5.95 ± 211.26) × E-7	(-4 ± 3) × E-5
12	(2 ± 1) × E-5	(-6.6 ± 98.0) × E-7
13	(-1.6 ± 0.9) × E-5	(-2 ± 2) × E-5
14	(-7 ± 2) × E-5	(-3.7 ± 0.9) × E-5
15	(1.23 ± 0.01) × E-3	(-1.7 ± 0.1) × E-4