



S15-172

## STORAGE RING MAGNET REPORT

### Results

Date 04/07/2018

Hour 12:37:51

Temperature [°C] 23.665

Number of Measurements 9

Main Coil Current [A] (167.7976 ± 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] (-359.884 ± 0.004)

Magnet Center Offset X [μm] - (< ±40.0) (17.70 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (29.71 ± 0.06)

Roll [mrad] - (< ±0.3) (5.3 ± 0.5) × E-2

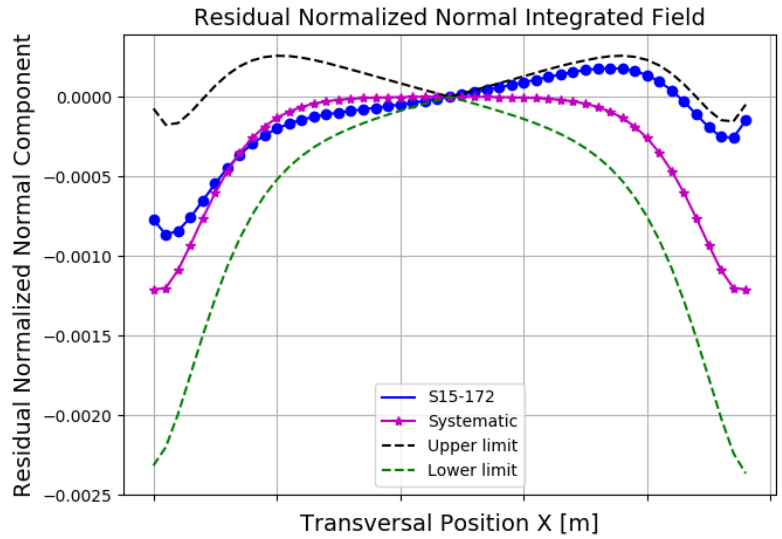
### Electric Parameters

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)	(-2.30 ± 0.06) × E-4	(-1.091 ± 0.009) × E-3
2 (quadrupole)	(-2.950 ± 0.005) × E-3	(-4.95 ± 0.01) × E-3
3 (sextupole)	(1.00000 ± 0.00002)	(1.6 ± 0.2) × E-4
4	(3.18 ± 0.07) × E-4	(3.3 ± 0.2) × E-4
5	(1.9 ± 0.1) × E-4	(-5 ± 1) × E-5
6	(7.9 ± 16.1) × E-6	(1 ± 1) × E-5
7	(-1.23 ± 108.57) × E-7	(8 ± 1) × E-5
8	(1 ± 2) × E-5	(5 ± 9) × E-6
9	(-1.963 ± 0.009) × E-3	(1.7 ± 0.1) × E-4
10	(-3 ± 10) × E-6	(6.9 ± 12.7) × E-6
11	(-2 ± 2) × E-5	(-2 ± 1) × E-5
12	(2.3 ± 12.8) × E-6	(-1.1 ± 0.8) × E-5
13	(1 ± 2) × E-5	(-5 ± 8) × E-6
14	(-2.7 ± 0.9) × E-5	(-3.9 ± 0.6) × E-5
15	(1.326 ± 0.007) × E-3	(-5.6 ± 17.8) × E-6

