



S15-238

## STORAGE RING MAGNET REPORT

### Results

Date 11/07/2018

Hour 09:36:38

Temperature [°C] 22.944

Number of Measurements 9

Main Coil Current [A] (167.7995 ± 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] (-360.078 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (16.31 ± 0.06)

Magnet Center Offset Y [μm] - (< ±40.0) (32.05 ± 0.04)

Roll [mrad] - (< ±0.3) (3.8 ± 0.7) × E-2

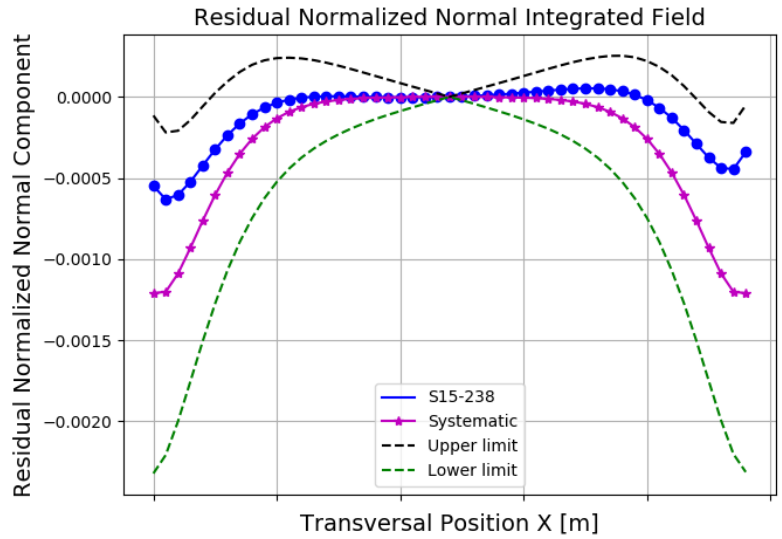
### Electric Parameters

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)	(-1.01 ± 0.07) × E-4	(3 ± 1) × E-5
2 (quadrupole)	(-2.718 ± 0.010) × E-3	(-5.342 ± 0.007) × E-3
3 (sextupole)	(1.00000 ± 0.00001)	(1.2 ± 0.2) × E-4
4	(5.1 ± 0.9) × E-5	(2.27 ± 0.09) × E-4
5	(2.0 ± 0.1) × E-4	(1.5 ± 0.2) × E-4
6	(2 ± 2) × E-5	(-2 ± 1) × E-5
7	(7 ± 2) × E-5	(-2.7 ± 0.9) × E-5
8	(8.5 ± 14.4) × E-6	(4 ± 2) × E-5
9	(-2.02 ± 0.02) × E-3	(3.7 ± 0.2) × E-4
10	(3 ± 2) × E-5	(1 ± 2) × E-5
11	(-1.7 ± 16.3) × E-6	(-9.2 ± 15.4) × E-6
12	(-4.07 ± 111.78) × E-7	(9.2 ± 12.1) × E-6
13	(-1 ± 1) × E-5	(-5.0 ± 12.8) × E-6
14	(-8.6 ± 15.8) × E-6	(-4 ± 2) × E-5
15	(1.31 ± 0.02) × E-3	(-1 ± 3) × E-5

