



# S15-006

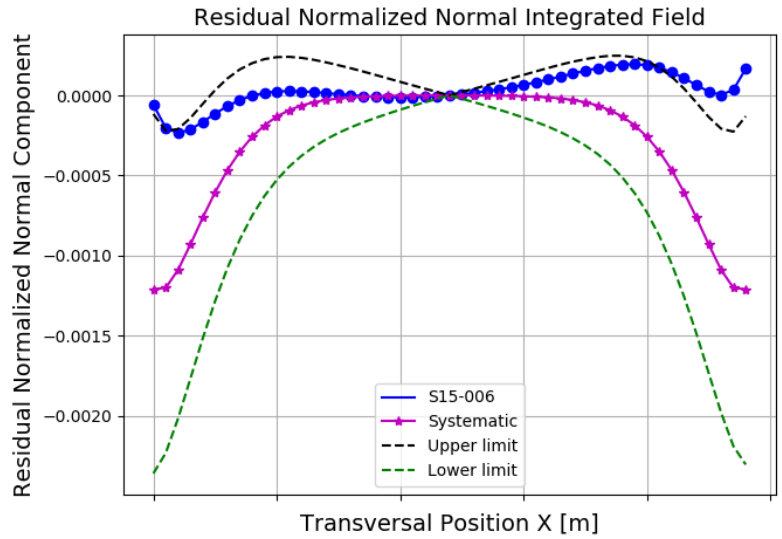
## STORAGE RING MAGNET REPORT

### Results

Date	31/08/2018
Hour	12:29:34
Temperature [°C]	23.353
Number of Measurements	9
Main Coil Current [A]	(167.7977 ± 0.0009)
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]	(-362.521 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(18.82 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(23.0 ± 0.1)
Roll [mrad] - (< ±0.3)	(-2.47 ± 0.10) x E-1

### 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> ]
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1 (dipole)	(-4.69 ± 0.08) x E-4	(-4 ± 3) x E-5
2 (quadrupole)	(-3.136 ± 0.005) x E-3	(-3.83 ± 0.02) x E-3
3 (sextupole)	(1.000000 ± 0.000006)	(-7.4 ± 0.3) x E-4
4	(1.49 ± 0.08) x E-4	(2.9 ± 0.2) x E-4
5	(4.5 ± 0.1) x E-4	(2 ± 2) x E-5
6	(-2 ± 1) x E-5	(-5.8 ± 19.3) x E-6
7	(1.7 ± 0.1) x E-4	(-5.97 ± 230.17) x E-7
8	(3 ± 1) x E-5	(1 ± 2) x E-5
9	(-1.72 ± 0.01) x E-3	(5.4 ± 0.3) x E-4
10	(1.0 ± 16.4) x E-6	(-5 ± 3) x E-5
11	(8.1 ± 21.1) x E-6	(2 ± 3) x E-5
12	(-1.9 ± 1.0) x E-5	(2 ± 2) x E-5
13	(-4 ± 2) x E-5	(5.6 ± 17.6) x E-6
14	(-2 ± 2) x E-5	(-2 ± 2) x E-5
15	(1.18 ± 0.02) x E-3	(-2.5 ± 0.2) x E-4

