



# S15-236

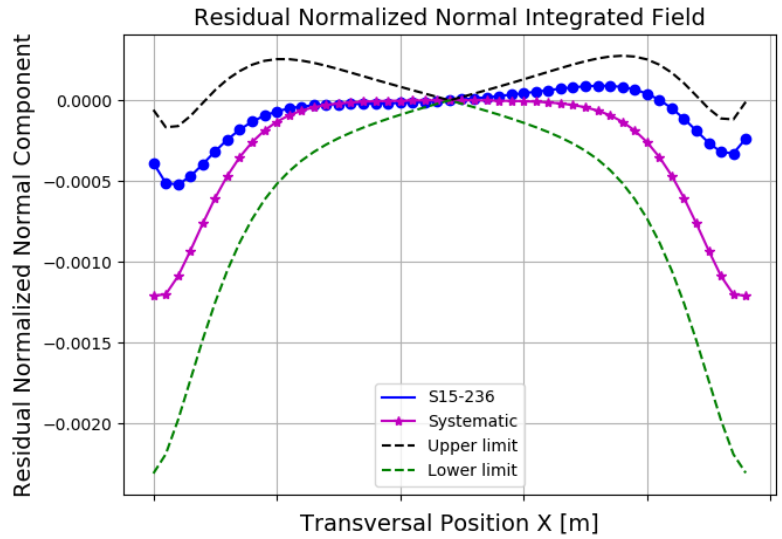
## STORAGE RING MAGNET REPORT

### Results

Date	04/09/2018
Hour	12:40:03
Temperature [°C]	23.455
Number of Measurements	9
Main Coil Current [A]	(167.7982 ± 0.0010)
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]	(-359.942 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(12.62 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(27.6 ± 0.2)
Roll [mrad] - (< ±0.3)	(1.25 ± 0.09) 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> ]
---	----------------------------------------------------------------------	--------------------------------------------------------------------

1 (dipole)	(-9.09 ± 0.03) x E-4	(5.2 ± 0.3) x E-4
2 (quadrupole)	(-2.104 ± 0.004) x E-3	(-4.61 ± 0.03) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(3.8 ± 0.3) x E-4
4	(1.29 ± 0.08) x E-4	(-5 ± 2) x E-5
5	(1.9 ± 0.1) x E-4	(-1 ± 2) x E-5
6	(-8 ± 8) x E-6	(-2 ± 3) x E-5
7	(9.7 ± 0.8) x E-5	(-5.0 ± 23.5) x E-6
8	(4 ± 1) x E-5	(5 ± 2) x E-5
9	(-1.82 ± 0.01) x E-3	(3.9 ± 0.2) x E-4
10	(-2.6 ± 0.8) x E-5	(2 ± 2) x E-5
11	(5.2 ± 12.2) x E-6	(-2 ± 3) x E-5
12	(-1.6 ± 0.9) x E-5	(2 ± 1) x E-5
13	(-2 ± 1) x E-5	(4.3 ± 12.6) x E-6
14	(-5 ± 1) x E-5	(-3 ± 1) x E-5
15	(1.228 ± 0.007) x E-3	(-1.2 ± 0.1) x E-4

