



S15-240

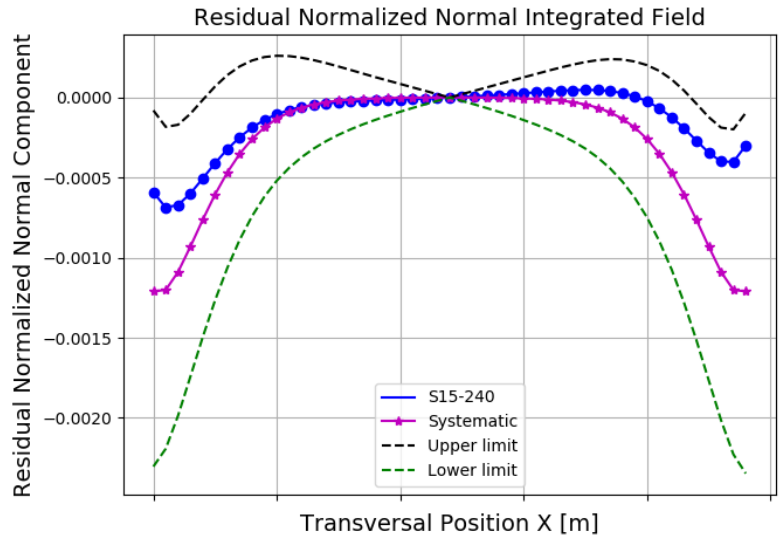
## STORAGE RING MAGNET REPORT

### Results

Date	04/09/2018
Hour	11:09:31
Temperature [°C]	23.417
Number of Measurements	9
Main Coil Current [A]	(167.7981 ± 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]	(-360.109 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(22.10 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(30.0 ± 0.4)
Roll [mrad] - (< ±0.3)	(-2.7 ± 19.4) x E-3

### 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)	(-7.01 ± 0.02) x E-4	(-2.2 ± 0.7) x E-4
2 (quadrupole)	(-3.683 ± 0.004) x E-3	(-5.01 ± 0.06) x E-3
3 (sextupole)	(1.000000 ± 0.000008)	(-8.2 ± 58.2) x E-6
4	(8.6 ± 0.5) x E-5	(3.0 ± 0.5) x E-4
5	(7.0 ± 1.0) x E-5	(4 ± 5) x E-5
6	(7 ± 2) x E-5	(-2 ± 5) x E-5
7	(6 ± 1) x E-5	(-6.9 ± 46.1) x E-6
8	(3 ± 2) x E-5	(3 ± 5) x E-5
9	(-1.81 ± 0.02) x E-3	(4.0 ± 0.4) x E-4
10	(-1 ± 3) x E-5	(-1 ± 5) x E-5
11	(3 ± 2) x E-5	(-3 ± 3) x E-5
12	(-1.8 ± 33.2) x E-6	(2 ± 4) x E-5
13	(-2 ± 2) x E-5	(1 ± 3) x E-5
14	(-3 ± 1) x E-5	(-5 ± 3) x E-5
15	(1.22 ± 0.01) x E-3	(-1.3 ± 0.3) x E-4

