



S15-097

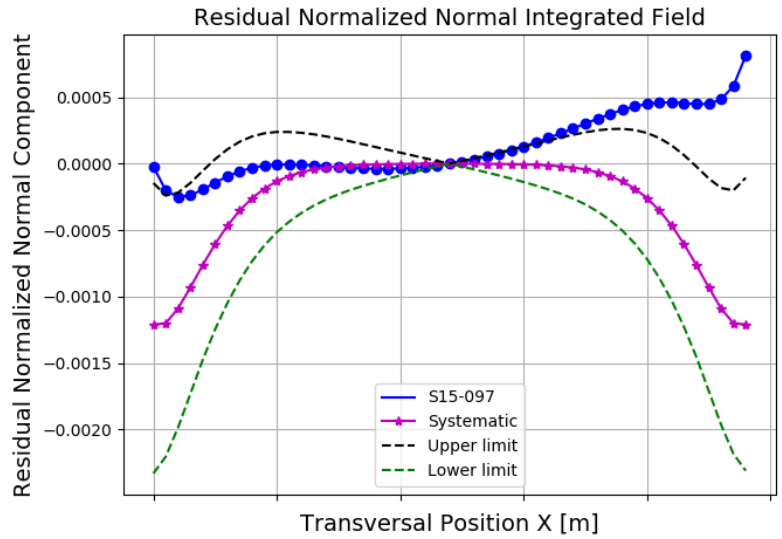
## STORAGE RING MAGNET REPORT

### Results

Date	31/07/2018
Hour	12:42:25
Temperature [°C]	23.435
Number of Measurements	9
Main Coil Current [A]	(167.799 ± 0.001)
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 ± 0.004)
Magnet Center Offset X [μm] - (< ±40.0)	(5.02 ± 0.05)
Magnet Center Offset Y [μm] - (< ±40.0)	(24.37 ± 0.09)
Roll [mrad] - (< ±0.3)	(-2.7 ± 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)	(-2.11 ± 0.07) × E-4	(-2 ± 1) × E-5
2 (quadrupole)	(-8.36 ± 0.08) × E-4	(-4.06 ± 0.01) × E-3
3 (sextupole)	(1.00000 ± 0.00001)	(-8 ± 2) × E-5
4	(3.3 ± 0.1) × E-4	(-8.6 ± 18.1) × E-6
5	(7.31 ± 0.08) × E-4	(-1.6 ± 0.2) × E-4
6	(4 ± 1) × E-5	(1 ± 2) × E-5
7	(1.91 ± 0.09) × E-4	(5 ± 2) × E-5
8	(3 ± 2) × E-5	(7 ± 2) × E-5
9	(-1.86 ± 0.01) × E-3	(6.2 ± 0.3) × E-4
10	(4 ± 1) × E-5	(2 ± 2) × E-5
11	(1 ± 2) × E-5	(-3 ± 2) × E-5
12	(3.74 ± 172.67) × E-7	(-2 ± 2) × E-5
13	(-8.2 ± 16.8) × E-6	(-1 ± 1) × E-5
14	(-3 ± 2) × E-5	(-5 ± 2) × E-5
15	(1.33 ± 0.01) × E-3	(-5 ± 2) × E-5

