



S15-091

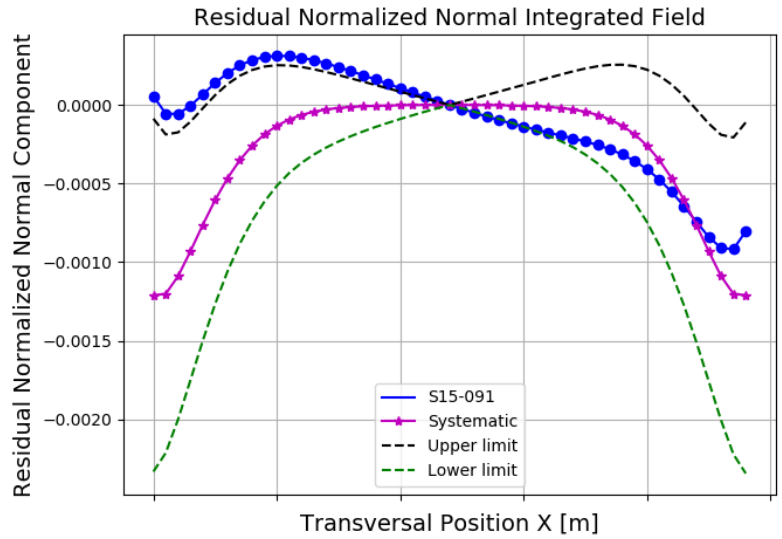
STORAGE RING MAGNET REPORT

Results

Date	13/08/2018
Hour	15:51:35
Temperature [°C]	23.382
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]	(-359.717 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(-37.63 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(11.87 ± 0.03)
Roll [mrad] - (< ±0.3)	(6.28 ± 0.02) 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 ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	(1.492 ± 0.008) x E-3	(-1.036 ± 0.008) x E-3
2 (quadrupole)	(6.272 ± 0.005) x E-3	(-1.979 ± 0.005) x E-3
3 (sextupole)	(1.000000 ± 0.000006)	(1.885 ± 0.006) x E-3
4	(-6.17 ± 0.03) x E-4	(-5.64 ± 0.03) x E-4
5	(2.00 ± 0.03) x E-4	(3.10 ± 0.07) x E-4
6	(2.83 ± 0.02) x E-4	(-8.8 ± 0.4) x E-5
7	(3.8 ± 0.4) x E-5	(-1.5 ± 0.7) x E-5
8	(-1.59 ± 0.05) x E-4	(7.7 ± 0.6) x E-5
9	(-1.910 ± 0.005) x E-3	(5.3 ± 0.7) x E-5
10	(8 ± 4) x E-6	(7 ± 5) x E-6
11	(-1.5 ± 0.4) x E-5	(-3.2 ± 0.7) x E-5
12	(-2.1 ± 0.4) x E-5	(7 ± 5) x E-6
13	(6 ± 4) x E-6	(2.1 ± 0.5) x E-5
14	(7.6 ± 0.4) x E-5	(-2.7 ± 0.6) x E-5
15	(1.308 ± 0.004) x E-3	(2.6 ± 0.4) x E-5

