



S15-120

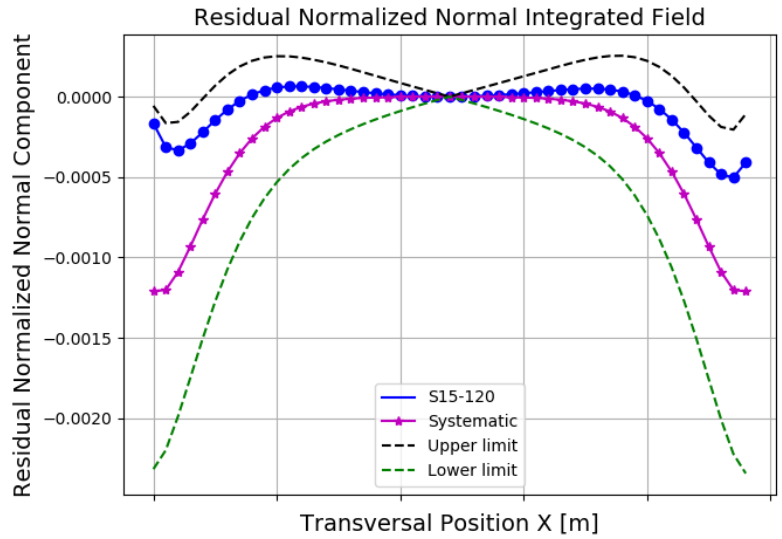
STORAGE RING MAGNET REPORT

Results

Date	17/08/2018
Hour	15:03:19
Temperature [°C]	23.426
Number of Measurements	9
Main Coil Current [A]	(167.796 ± 0.002)
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]	(-359.616 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(13.39 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(21.88 ± 0.06)
Roll [mrad] - (< ±0.3)	(1.34 ± 0.03) 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)	(-7.1 ± 0.4) x E-5	(-4.7 ± 0.1) x E-4
2 (quadrupole)	(-2.232 ± 0.004) x E-3	(-3.65 ± 0.01) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(4.03 ± 0.09) x E-4
4	(5 ± 8) x E-6	(4 ± 1) x E-5
5	(3.4 ± 0.1) x E-4	(8.1 ± 12.0) x E-6
6	(-8 ± 1) x E-5	(-3.5 ± 12.4) x E-6
7	(7 ± 1) x E-5	(5 ± 2) x E-5
8	(-4.3 ± 14.0) x E-6	(3 ± 1) x E-5
9	(-2.055 ± 0.009) x E-3	(1.6 ± 0.1) x E-4
10	(6.8 ± 11.5) x E-6	(-1.22 ± 150.05) x E-7
11	(-4 ± 7) x E-6	(-8.7 ± 17.2) x E-6
12	(-1 ± 2) x E-5	(7 ± 9) x E-6
13	(1.1 ± 10.8) x E-6	(-6.8 ± 11.7) x E-6
14	(-4 ± 1) x E-5	(-3 ± 1) x E-5
15	(1.363 ± 0.009) x E-3	(7 ± 1) x E-5

