



Q20-064

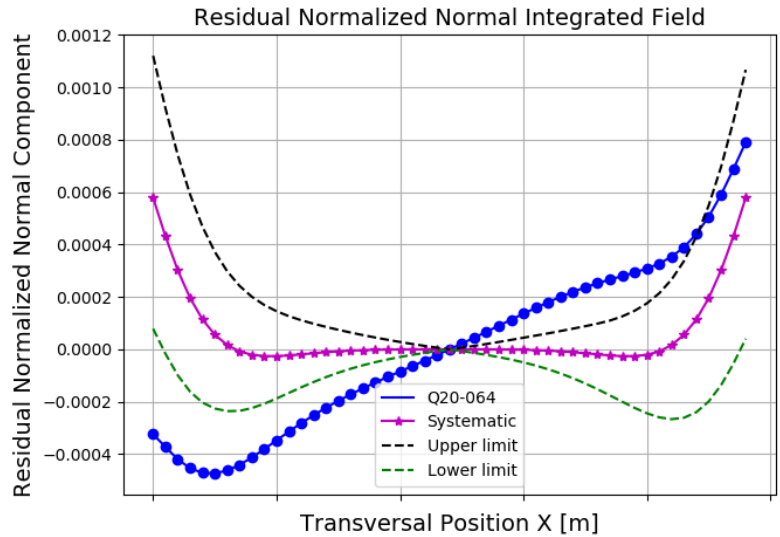
STORAGE RING MAGNET REPORT

Results

Date	08/06/2018
Hour	15:54:31
Temperature [°C]	23.06
Number of Measurements	9
Main Coil Current [A]	(157.3578 ± 0.0005)
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]	(-9.08435 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(6.74 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(5.43 ± 0.04)
Roll [mrad] - (< ±0.3)	(1.09 ± 0.03) × E-1

Electric Parameters

Inductance [mH]	8.9467
Voltage [V]	5.42
Resistance [mΩ]	34.4
Main Coil Number of Turns	23.25



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)	(-5.62 ± 0.03) × E-4	(-4.52 ± 0.03) × E-4
2 (quadrupole)	(1.000000 ± 0.000005)	(2.19 ± 0.05) × E-4
3 (sextupole)	(5.23 ± 0.02) × E-4	(4.3 ± 0.5) × E-5
4	(1.32 ± 0.03) × E-4	(-4.6 ± 0.4) × E-5
5	(5.1 ± 0.5) × E-5	(5 ± 3) × E-6
6	(-8.64 ± 0.02) × E-4	(10.0 ± 0.4) × E-5
7	(-1.6 ± 0.6) × E-5	(-2 ± 3) × E-6
8	(2 ± 5) × E-6	(-1.6 ± 0.3) × E-5
9	(-1.8 ± 0.3) × E-5	(-7 ± 3) × E-6
10	(1.665 ± 0.004) × E-3	(-5.5 ± 0.5) × E-5
11	(2 ± 5) × E-6	(1 ± 4) × E-6
12	(-6 ± 5) × E-6	(2.6 ± 0.4) × E-5
13	(1.1 ± 0.5) × E-5	(4 ± 3) × E-6
14	(-6.96 ± 0.03) × E-4	(1.9 ± 0.5) × E-5
15	(4 ± 4) × E-6	(8.0 ± 44.0) × E-7

