



Q20-024

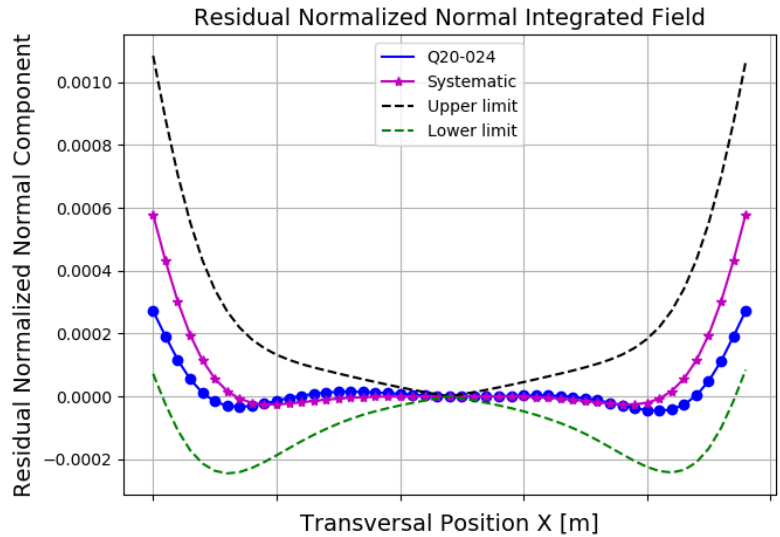
STORAGE RING MAGNET REPORT

Results

Date	12/06/2018
Hour	12:43:23
Temperature [°C]	22.69
Number of Measurements	9
Main Coil Current [A]	(157.519 ± 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]	(-9.09689 ± 0.00004)
Magnet Center Offset X [μm] - (< ±40.0)	(14.52 ± 0.04)
Magnet Center Offset Y [μm] - (< ±40.0)	(6.28 ± 0.06)
Roll [mrad] - (< ±0.3)	(1.10 ± 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)	(-1.210 ± 0.003) × E-3	(-5.23 ± 0.05) × E-4
2 (quadrupole)	(1.000000 ± 0.000007)	(2.20 ± 0.06) × E-4
3 (sextupole)	(-2.1 ± 0.2) × E-5	(5.3 ± 0.6) × E-5
4	(1.73 ± 0.03) × E-4	(-1.3 ± 0.6) × E-5
5	(2.6 ± 0.2) × E-5	(-4 ± 6) × E-6
6	(-8.77 ± 0.03) × E-4	(9.7 ± 0.6) × E-5
7	(3 ± 3) × E-6	(4 ± 5) × E-6
8	(-1.3 ± 0.4) × E-5	(-3 ± 5) × E-6
9	(-1.4 ± 0.5) × E-5	(-6 ± 7) × E-6
10	(1.685 ± 0.004) × E-3	(-4.1 ± 0.5) × E-5
11	(7 ± 5) × E-6	(-2 ± 5) × E-6
12	(9 ± 3) × E-6	(1 ± 5) × E-6
13	(3 ± 4) × E-6	(5 ± 5) × E-6
14	(-7.05 ± 0.03) × E-4	(2.0 ± 0.5) × E-5
15	(-3 ± 4) × E-6	(-6.5 ± 43.4) × E-7

