



Q20-176

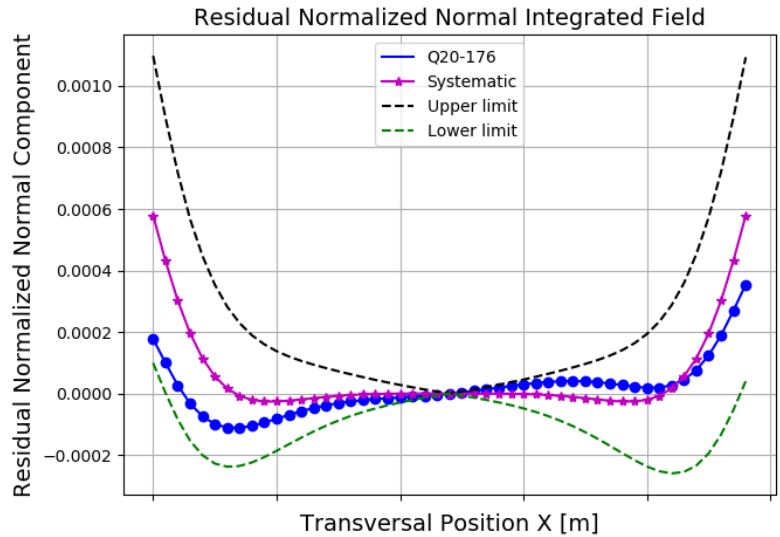
STORAGE RING MAGNET REPORT

Results

Date	07/06/2018
Hour	09:50:25
Temperature [°C]	23.0
Number of Measurements	9
Main Coil Current [A]	(157.3559 ± 0.0008)
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]	(-9.07214 ± 0.00002)
Magnet Center Offset X [μm] - (< ±40.0)	(7.81 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(8.1 ± 0.5) × E-1
Roll [mrad] - (< ±0.3)	(8.4 ± 0.1) × E-2

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)	(-6.51 ± 0.02) × E-4	(-6.7 ± 0.4) × E-5
2 (quadrupole)	(1.000000 ± 0.000004)	(1.68 ± 0.03) × E-4
3 (sextupole)	(9.6 ± 0.2) × E-5	(2.0 ± 0.3) × E-5
4	(1.45 ± 0.03) × E-4	(-2.6 ± 0.3) × E-5
5	(-6 ± 2) × E-6	(5 ± 4) × E-6
6	(-8.40 ± 0.03) × E-4	(6.3 ± 0.5) × E-5
7	(5 ± 3) × E-6	(8 ± 4) × E-6
8	(-8 ± 2) × E-6	(-2 ± 3) × E-6
9	(-1.2 ± 0.3) × E-5	(4 ± 3) × E-6
10	(1.656 ± 0.003) × E-3	(-2.7 ± 0.4) × E-5
11	(-4 ± 3) × E-6	(-1.0 ± 0.4) × E-5
12	(5 ± 2) × E-6	(7 ± 5) × E-6
13	(8 ± 2) × E-6	(-4 ± 3) × E-6
14	(-6.91 ± 0.01) × E-4	(-4 ± 4) × E-6
15	(3 ± 4) × E-6	(7 ± 5) × E-6

