



Q20-156

STORAGE RING MAGNET REPORT

Results

Date 22/05/2018

Hour 09:47:12

Temperature [°C] 22.86

Number of Measurements 9

Main Coil Current [A] (157.5592 ± 0.0006)

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] (-9.08485 ± 0.00004)

Magnet Center Offset X [μm] - (< ±40.0) (6.40 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (5.01 ± 0.05)

Roll [mrad] - (< ±0.3) (9.1 ± 0.2) × E-2

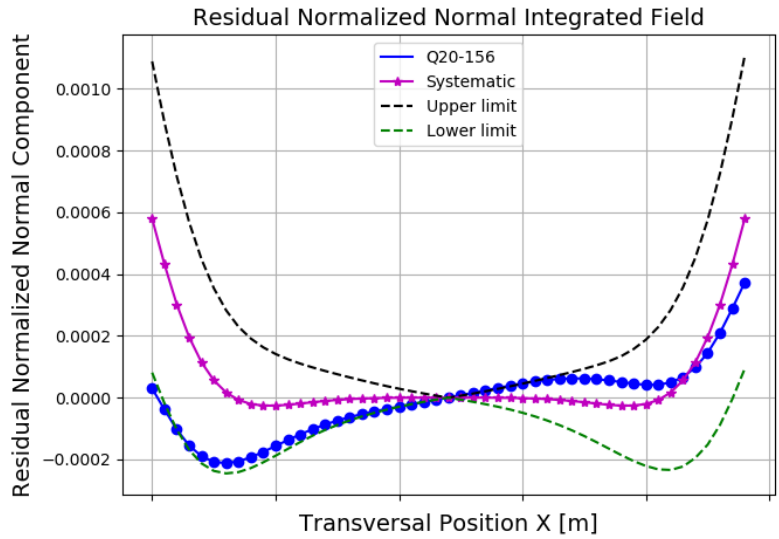
Electric Parameters

Inductance [mH] 8.9467

Voltage [V] 5.42

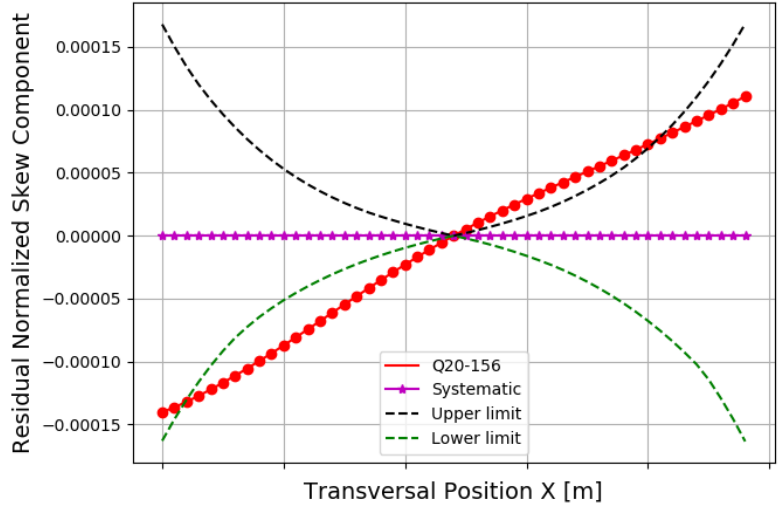
Resistance [mΩ] 34.4

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⁾]
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Residual Normalized Skew Integrated Field



1 (dipole)	(-5.33 ± 0.03) × E-4	(-4.18 ± 0.04) × E-4
2 (quadrupole)	(1.000000 ± 0.000006)	(1.83 ± 0.04) × E-4
3 (sextupole)	(1.82 ± 0.04) × E-4	(1.29 ± 0.03) × E-4
4	(6.4 ± 0.4) × E-5	(-5.1 ± 0.5) × E-5
5	(-1.5 ± 0.3) × E-5	(3 ± 6) × E-6
6	(-8.31 ± 0.07) × E-4	(5.4 ± 0.4) × E-5
7	(9 ± 8) × E-6	(-5 ± 6) × E-6
8	(5 ± 1) × E-6	(-9 ± 8) × E-6
9	(-1.3 ± 0.7) × E-5	(-7 ± 5) × E-6
10	(1.666 ± 0.008) × E-3	(-2.5 ± 0.5) × E-5
11	(-9 ± 6) × E-6	(4 ± 9) × E-6
12	(-3 ± 7) × E-6	(1.6 ± 0.8) × E-5
13	(1.6 ± 0.8) × E-5	(5 ± 4) × E-6
14	(-7.00 ± 0.06) × E-4	(1 ± 7) × E-6
15	(1 ± 5) × E-6	(-4 ± 8) × E-6