



Q20-094

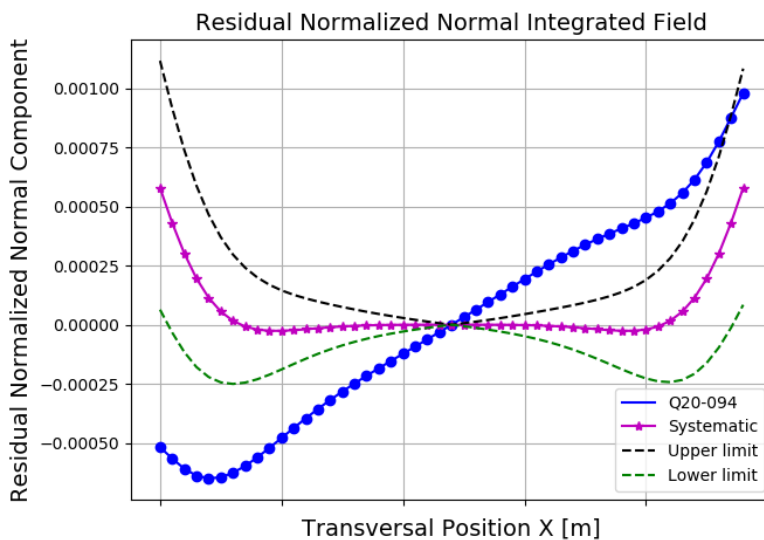
## STORAGE RING MAGNET REPORT

### Results

Date	05/06/2018
Hour	09:57:55
Temperature [°C]	23.1
Number of Measurements	9
Main Coil Current [A]	(157.4363 ± 0.0007)
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]	(-9.08498 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(-1.50 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(12.83 ± 0.03)
Roll [mrad] - (< ±0.3)	(7.6 ± 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 <sup>(2-n)</sup> ]	Normalized Skew Multipoles x=12.0 mm [T.m <sup>(2-n)</sup> ]
1 (dipole)	(1.25 ± 0.02) × E-4	(-1.069 ± 0.002) × E-3
2 (quadrupole)	(1.000000 ± 0.000005)	(1.53 ± 0.03) × E-4
3 (sextupole)	(7.53 ± 0.02) × E-4	(5.21 ± 0.02) × E-4
4	(1.22 ± 0.03) × E-4	(-5.5 ± 0.3) × E-5
5	(3.0 ± 0.3) × E-5	(-6.5 ± 0.4) × E-5
6	(-8.52 ± 0.02) × E-4	(7.2 ± 0.3) × E-5
7	(-2.5 ± 0.4) × E-5	(-2.6 ± 0.3) × E-5
8	(4 ± 3) × E-6	(-1.1 ± 0.3) × E-5
9	(-1.1 ± 0.3) × E-5	(-8 ± 3) × E-6
10	(1.662 ± 0.004) × E-3	(-4.1 ± 0.5) × E-5
11	(3 ± 4) × E-6	(7 ± 3) × E-6
12	(-8 ± 4) × E-6	(1.0 ± 0.4) × E-5
13	(3.81 ± 286.39) × E-8	(7 ± 3) × E-6
14	(-6.97 ± 0.03) × E-4	(1.4 ± 0.4) × E-5
15	(-2 ± 3) × E-6	(2 ± 3) × E-6

