



# Q20-144

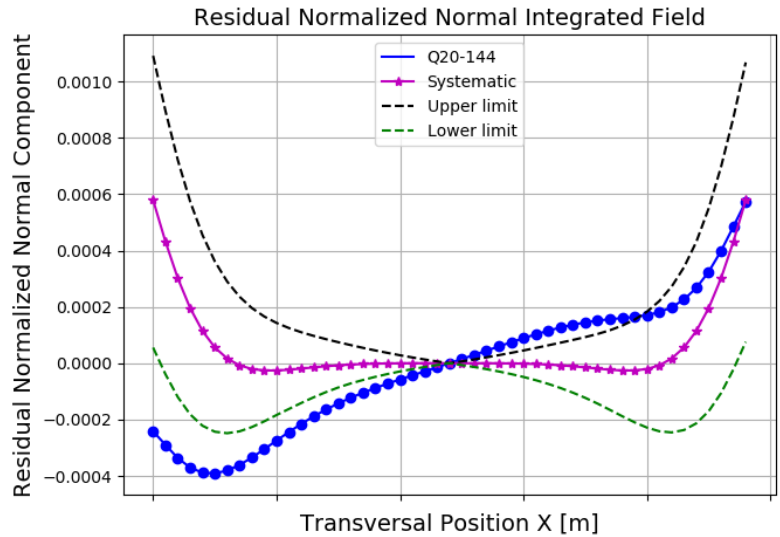
## STORAGE RING MAGNET REPORT

### Results

Date	07/06/2018
Hour	15:22:17
Temperature [°C]	23.0
Number of Measurements	9
Main Coil Current [A]	(157.5555 ± 0.0009)
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]	(-9.08385 ± 0.00002)
Magnet Center Offset X [μm] - (< ±40.0)	(9.61 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(6.23 ± 0.04)
Roll [mrad] - (< ±0.3)	(1.15 ± 0.02) × 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 <sup>(2-n)</sup> ]	Normalized Skew Multipoles x=12.0 mm [T.m <sup>(2-n)</sup> ]
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1 (dipole)	(-8.00 ± 0.02) × E-4	(-5.19 ± 0.04) × E-4
2 (quadrupole)	(1.000000 ± 0.000004)	(2.31 ± 0.04) × E-4
3 (sextupole)	(3.49 ± 0.02) × E-4	(2.35 ± 0.04) × E-4
4	(5.9 ± 0.5) × E-5	(-2.7 ± 0.3) × E-5
5	(7.0 ± 0.3) × E-5	(-9 ± 4) × E-6
6	(-8.53 ± 0.02) × E-4	(8.3 ± 0.5) × E-5
7	(-3 ± 3) × E-6	(-1.7 ± 0.6) × E-5
8	(5 ± 7) × E-6	(-4 ± 4) × E-6
9	(-1.4 ± 0.5) × E-5	(4 ± 4) × E-6
10	(1.669 ± 0.004) × E-3	(-3.4 ± 0.6) × E-5
11	(4 ± 4) × E-6	(4 ± 5) × E-6
12	(-3 ± 4) × E-6	(3.0 ± 71.3) × E-7
13	(3 ± 6) × E-6	(2.9 ± 46.4) × E-7
14	(-7.11 ± 0.05) × E-4	(1.0 ± 0.3) × E-5
15	(-3 ± 3) × E-6	(-4 ± 5) × E-6

