



Q14-079

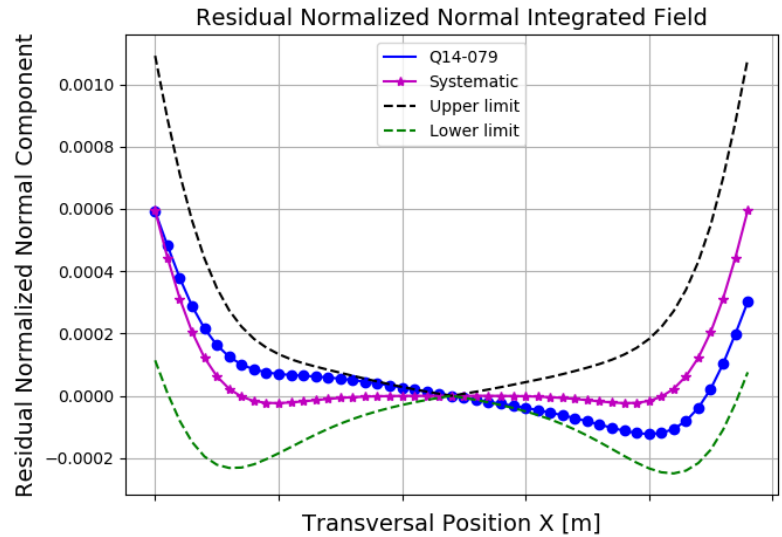
STORAGE RING MAGNET REPORT

Results

Date	09/04/2018
Hour	14:46:00
Temperature [°C]	23.8
Number of Measurements	9
Main Coil Current [A]	(147.997 ± 0.006)
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]	(-5.24341 ± 0.00002)
Magnet Center Offset X [μm] - (< ±40.0)	(15.57 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(6.01 ± 0.07)
Roll [mrad] - (< ±0.3)	(-3.24 ± 0.03) × E-1

Electric Parameters

Inductance [mH]	4.781
Voltage [V]	4.4843
Resistance [mΩ]	30.3
Main Coil Number of Turns	20.0



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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1 (dipole)	(-1.298 ± 0.002) × E-3	(-5.01 ± 0.06) × E-4
2 (quadrupole)	(1.000000 ± 0.000005)	(-6.48 ± 0.07) × E-4
3 (sextupole)	(-1.56 ± 0.04) × E-4	(1.29 ± 0.08) × E-4
4	(3.2 ± 0.4) × E-5	(-3.7 ± 0.6) × E-5
5	(-1.0 ± 0.4) × E-5	(-3 ± 7) × E-6
6	(-4.45 ± 0.08) × E-4	(1.7 ± 0.8) × E-5
7	(2.9 ± 0.8) × E-5	(4 ± 5) × E-6
8	(7.53 ± 107.09) × E-7	(10 ± 9) × E-6
9	(-1.0 ± 0.5) × E-5	(-3 ± 8) × E-6
10	(1.53 ± 0.02) × E-3	(-2 ± 9) × E-6
11	(-9 ± 6) × E-6	(-4 ± 3) × E-6
12	(2.22 ± 111.60) × E-7	(-3.4 ± 11.5) × E-6
13	(3 ± 9) × E-6	(8.6 ± 69.2) × E-7
14	(-6.75 ± 0.07) × E-4	(-7.8 ± 12.0) × E-6
15	(7.4 ± 12.5) × E-6	(5 ± 6) × E-6

