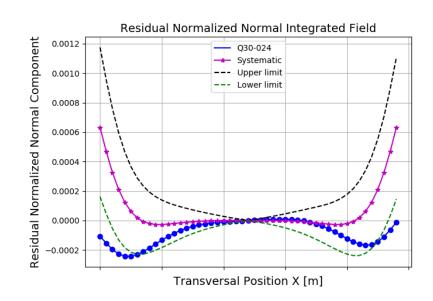


Q30-024

STORAGE RING MAGNET REPORT

Results		
Date	08/05/2018	
Hour	09:10:37	
Temperature [°C]	23.43	
Number of Measurements	9	
Main Coil Current [A]	(154.9973 ± 0.0005)	
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]	(-13.64031 ± 0.00004	
Magnet Center Offset X [μm] - (< ±40.0)	(2.29 ± 0.03)	
Magnet Center Offset Y [μm] - (< ±40.0)	(-1.39 ± 0.09)	
Roll [mrad] - (< ±0.3)	(-2.38 ± 0.05) x E-1	
Electric Parameters		
Indutance [mH]	9.24	
Voltage [V]	7.4863	
Resistance [m Ω]	48.3	
Main Coil Number of Turns	23.25	



	Normalized	Normalized
	Normal	Skew
n	Multipoles	Multipoles
	x=12.0 mm	x=12.0 mm
	[T.m ⁽²⁻ⁿ⁾]	[T.m ⁽²⁻ⁿ⁾]
1 (dipole)	(-1.91 ± 0.02) x E-4	(1.16 ± 0.07) x E-4
2 (quadrupole)	(1.000000 ± 0.000004)	(-4.76 ± 0.09) x E-4
3 (sextupole)	(5.3 ± 0.8) x E-5	(5.1 ± 0.9) x E-5
4	(4.0 ± 10.7) x E-6	(-7.3 ± 0.7) x E-5
5	(-1.7 ± 0.7) x E-5	(-5 ± 10) x E-6
6	(-1.113 ± 0.005) x E-3	(8.7 ± 0.5) x E-5
7	(1.2 ± 0.9) x E-5	(-6 ± 9) x E-6
8	(9.17 ± 139.49) x E-7	(-2.8 ± 10.5) x E-6
9	(1.1 ± 10.6) x E-6	(-5.9 ± 11.9) x E-6
10	(1.776 ± 0.009) x E-3	(-5 ± 1) x E-5
11	(4.92 ± 106.05) x E-7	(8.0 ± 15.0) x E-6
12	(-2.0 ± 11.4) x E-6	(8.7 ± 11.6) x E-6
13	(3.0 ± 13.8) x E-6	(9.0 ± 11.0) x E-6
14	(-7.3 ± 0.1) x E-4	(1.3 ± 0.7) x E-5
15	(-4.9 ± 10.7) x E-6	(-7.0 ± 11.5) x E-6

