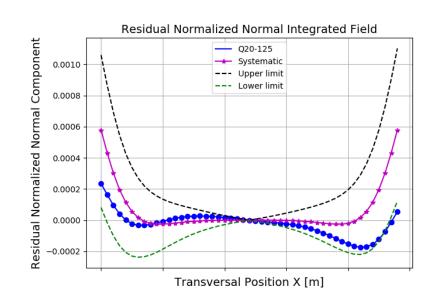


Q20-125

STORAGE RING MAGNET REPORT

Results		
Date	18/05/2018	
Hour	15:47:21	
Temperature [°C]	23.52	
Number of Measurements	9	
Main Coil Current [A]	(157.3574 ± 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]	(-9.08401 ± 0.00003	
Magnet Center Offset X [μm] - (< ±40.0)	(13.48 ± 0.02)	
Magnet Center Offset Y [μm] - (< ±40.0)	(13.49 ± 0.06)	
Roll [mrad] - (< ±0.3)	(-1.26 ± 0.02) x E-1	
Electric Parameters		
Indutance [mH]	8.9467	
Voltage [V]	5.42	
Resistance [m Ω]	34.4	
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)	(-1.124 ± 0.002) x E-3	(-1.125 ± 0.005) x E-3
2 (quadrupole)	(1.000000 ± 0.000005)	(-2.52 ± 0.04) x E-4
3 (sextupole)	(-9.3 ± 0.3) x E-5	(5.57 ± 0.06) x E-4
4	(5.3 ± 0.4) x E-5	(-5.9 ± 0.4) x E-5
5	(-7 ± 3) x E-6	(-5.3 ± 0.5) x E-5
6	(-8.80 ± 0.03) x E-4	(5.7 ± 0.4) x E-5
7	(1.9 ± 0.4) x E-5	(-2.6 ± 0.6) x E-5
8	(2.7 ± 43.1) x E-7	(3.8 ± 46.3) x E-7
9	(-1.1 ± 0.5) x E-5	(-2 ± 5) x E-6
10	(1.672 ± 0.004) x E-3	(-2.3 ± 0.4) x E-5
11	(-9 ± 5) x E-6	(9 ± 5) x E-6
12	(1 ± 4) x E-6	(8 ± 5) x E-6
13	(7 ± 4) x E-6	(2 ± 6) x E-6
14	(-7.02 ± 0.05) x E-4	(2 ± 5) x E-6
15	(5 ± 3) x E-6	(-3 ± 7) x E-6
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