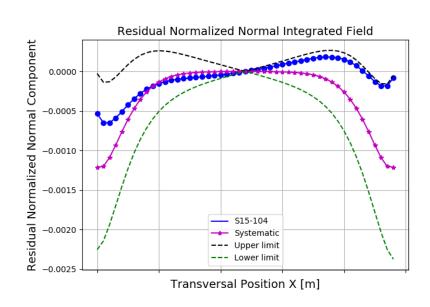


## S15-104

## STORAGE RING MAGNET REPORT

Results		
Date	28/08/2018	
Hour	16:39:28	
Temperature [°C]	23.283	
Number of Measurements	9	
Main Coil Current [A]	(167.7983 ± 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/m]	(-359.538 ± 0.002)	
Magnet Center Offset X [μm] - (< ±40.0)	(10.17 ± 0.02)	
Magnet Center Offset Y [μm] - (< ±40.0)	(25.40 ± 0.05)	
Roll [mrad] - (< ±0.3)	(-7.2 ± 0.3) x E-2	
Electric Parameters		
Indutance [mH]	3.157	
Voltage [V]	6.0106	
Resistance [m $\Omega$ ]	35.82	
Main Coil Number of Turns	11.25	



	Normalized	Normalized	
	Normal	Skew	
n			
	Multipoles	Multipoles	
	x=12.0 mm	x=12.0 mm	
	[T.m <sup>(2-n)</sup> ]	[T.m <sup>(2-n)</sup> ]	
1 (dipole)	(-1.144 ± 0.006) x E-3	(-1.79 ± 0.09) x E-4	
2 (quadrupole)	(-1.695 ± 0.004) x E-3	(-4.234 ± 0.008) x E-3	
3 (sextupole)	(1.000000 ± 0.000009)	(-2.16 ± 0.09) x E-4	
4	(2.99 ± 0.04) x E-4	(3.07 ± 0.06) x E-4	
5	(2.13 ± 0.05) x E-4	(-2.6 ± 0.7) x E-5	
6	(-4.9 ± 0.5) x E-5	(-3.4 ± 69.5) x E-7	
7	(1.26 ± 0.06) x E-4	(9.5 ± 10.1) x E-6	
8	(4.5 ± 0.5) x E-5	(1.8 ± 0.5) x E-5	
9	(-1.874 ± 0.005) x E-3	(2.89 ± 0.09) x E-4	
10	(-4.4 ± 0.7) x E-5	(5.6 ± 12.1) x E-6	
11	(-1 ± 1) x E-5	(-2.2 ± 0.7) x E-5	
12	(5 ± 7) x E-6	(-4.4 ± 11.0) x E-6	
13	(-2.3 ± 0.4) x E-5	(1.1 ± 1.0) x E-5	
14	(-3.0 ± 0.5) x E-5	(-2.0 ± 0.8) x E-5	
15	(1.260 ± 0.004) x E-3	(-1.27 ± 0.07) x E-4	

