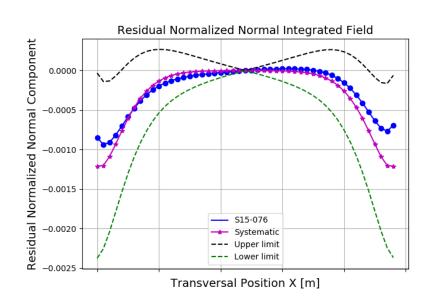


## S15-076

## STORAGE RING MAGNET REPORT

Results		
Date	10/08/2018	
Hour	09:21:38	
Temperature [°C]	23.354	
Number of Measurements	9	
Main Coil Current [A]	(167.798 ± 0.001)	
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]	(-359.174 ± 0.004	
Magnet Center Offset X [μm] - (< ±40.0)	(23.88 ± 0.02)	
Magnet Center Offset Y [μm] - (< ±40.0)	(25.50 ± 0.03)	
Roll [mrad] - (< ±0.3)	(9.3 ± 0.1) x E-2	
Electric Parameters	1	
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)	(-1.255 ± 0.006) x E-3	(-7.7 ± 0.6) x E-5
2 (quadrupole)	(-3.980 ± 0.003) x E-3	(-4.249 ± 0.005) x E-3
3 (sextupole)	(1.00000 ± 0.00002)	(2.80 ± 0.04) x E-4
4	(1.27 ± 0.03) x E-4	(1.13 ± 0.05) x E-4
5	(-1.51 ± 0.04) x E-4	(-1.6 ± 0.5) x E-5
6	(-3.9 ± 0.3) x E-5	(4.2 ± 0.3) x E-5
7	(-1.4 ± 0.4) x E-5	(-2.1 ± 0.5) x E-5
8	(2.3 ± 0.4) x E-5	(4.1 ± 0.4) x E-5
9	(-1.952 ± 0.004) x E-3	(2.9 ± 0.5) x E-5
10	(3 ± 4) x E-6	(-3 ± 7) x E-6
11	(1.5 ± 0.2) x E-5	(-4 ± 5) x E-6
12	(-2 ± 3) x E-6	(-5 ± 5) x E-6
13	(-8 ± 4) x E-6	(1.4 ± 0.3) x E-5
14	(-3.5 ± 0.3) x E-5	(-4.8 ± 0.4) x E-5
15	(1.340 ± 0.003) x E-3	(1.9 ± 0.4) x E-5

