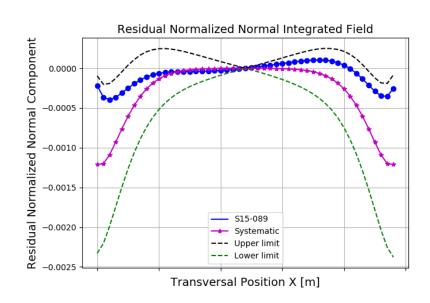


## S15-089

## STORAGE RING MAGNET REPORT

Results		
Date	29/08/2018	
Hour	16:00:58	
Temperature [°C]	23.266	
Number of Measurements	9	
Main Coil Current [A]	(167.7980 ± 0.0010	
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]	(-359.752 ± 0.002)	
Magnet Center Offset X [μm] - (< ±40.0)	(17.99 ± 0.02)	
Magnet Center Offset Y [μm] - (< ±40.0)	(28.23 ± 0.05)	
Roll [mrad] - (< ±0.3)	(-3.5 ± 0.3) x E-2	
Electric Parameters	ı	
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)	(-3.41 ± 0.03) x E-4	(-3.86 ± 0.08) x E-4
2 (quadrupole)	(-2.998 ± 0.003) x E-3	(-4.705 ± 0.008) x E-3
3 (sextupole)	(1.000000 ± 0.000008)	(-1.1 ± 0.1) x E-4
4	(2.04 ± 0.04) x E-4	(1.57 ± 0.09) x E-4
5	(2.05 ± 0.04) x E-4	(9.3 ± 0.7) x E-5
6	(-2.22 ± 0.04) x E-4	(-1.0 ± 0.6) x E-5
7	(7.7 ± 0.6) x E-5	(-2.7 ± 0.7) x E-5
8	(4.2 ± 0.4) x E-5	(3.1 ± 0.8) x E-5
9	(-1.716 ± 0.004) x E-3	(2.78 ± 0.06) x E-4
10	(-3.3 ± 0.8) x E-5	(1.2 ± 69.8) x E-7
11	(5 ± 8) x E-6	(-1.2 ± 0.8) x E-5
12	(2.2 ± 0.8) x E-5	(-4 ± 10) x E-6
13	(-2.1 ± 0.3) x E-5	(2.1 ± 0.6) x E-5
14	(-2.9 ± 0.8) x E-5	(-2.0 ± 0.4) x E-5
15	(1.213 ± 0.007) x E-3	(-1.1 ± 0.1) x E-4

