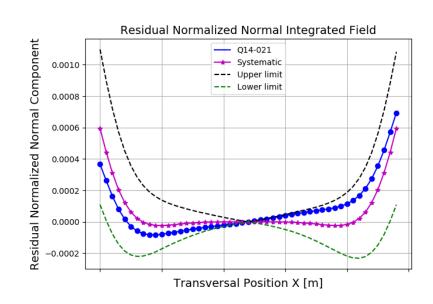


Q14-021

STORAGE RING MAGNET REPORT

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] (-5.240210 ± 0.0000 Magnet Center Offset X [μm] - (< ±40.0) (-8.5 ± 0.4) x E-1 Magnet Center Offset Y [μm] - (< ±40.0) (9.30 ± 0.03) Roll [mrad] - (< ±0.3) (-2.88 ± 0.02) x E Electric Parameters Indutance [mH] 4.781			
Date 07/04/2018			
Hour 12:38:13 Temperature [°C] 23.6 Number of Measurements 9 Main Coil Current [A] (147.9951 ± 0.000 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] (-5.240210 ± 0.0000 Magnet Center Offset X [μm] - (< ±40.0) (9.30 ± 0.03) Roll [mrad] - (< ±0.3) (-2.88 ± 0.02) × E Electric Parameters Indutance [mH] 4.781	Results		
Temperature [°C] 23.6 Number of Measurements 9 Main Coil Current [A] (147.9951 ± 0.000 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] (-5.240210 ± 0.0000 Magnet Center Offset X [μm] - (< ±40.0) (-8.5 ± 0.4) x E-1 Magnet Center Offset Y [μm] - (< ±40.0) (9.30 ± 0.03) Roll [mrad] - (< ±0.3) (-2.88 ± 0.02) x E Electric Parameters	Date	07/04/2018	
Number of Measurements 9	Hour	12:38:13	
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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] (-5.240210 ± 0.0000 Magnet Center Offset X [μm] - (< ±40.0) (-8.5 ± 0.4) x E-1 Magnet Center Offset Y [μm] - (< ±40.0) (9.30 ± 0.03) Roll [mrad] - (< ±0.3) (-2.88 ± 0.02) x E Electric Parameters Indutance [mH] 4.781	Number of Measurements	9	
CH Coil Current [A] (0 ± 0) CV Coil Current [A] (0 ± 0) QS Coil Current [A] (0 ± 0) Integrated Gradient [T] (-5.240210 ± 0.0000 Magnet Center Offset X [μm] - (< ±40.0) (-8.5 ± 0.4) × E-1 Magnet Center Offset Y [μm] - (< ±40.0) (9.30 ± 0.03) Roll [mrad] - (< ±0.3) (-2.88 ± 0.02) × E Electric Parameters Indutance [mH] 4.781	Main Coil Current [A]	(147.9951 ± 0.0004)	
CV Coil Current [A] (0 ± 0) QS Coil Current [A] (0 ± 0) Integrated Gradient [T] (-5.240210 ± 0.0000 Magnet Center Offset X [μm] - (< ±40.0) (-8.5 ± 0.4) x E-1 Magnet Center Offset Y [μm] - (< ±40.0) (9.30 ± 0.03) Roll [mrad] - (< ±0.3) (-2.88 ± 0.02) x E Electric Parameters Indutance [mH] 4.781	Trim Coil Current [A]	(0 ± 0)	
QS Coil Current [A] (0 ± 0) Integrated Gradient [T] (-5.240210 ± 0.0000 Magnet Center Offset X [μm] - (< ±40.0) (-8.5 ± 0.4) x E-0 Magnet Center Offset Y [μm] - (< ±40.0) (9.30 ± 0.03) Roll [mrad] - (< ±0.3) (-2.88 ± 0.02) x E Electric Parameters Indutance [mH] 4.781	CH Coil Current [A]	(0 ± 0)	
Integrated Gradient [T] (-5.240210 ± 0.0000 Magnet Center Offset X [μm] - (< ±40.0) (-8.5 ± 0.4) x E-1 Magnet Center Offset Y [μm] - (< ±40.0) (9.30 ± 0.03) Roll [mrad] - (< ±0.3) (-2.88 ± 0.02) x E Electric Parameters Indutance [mH] 4.781	CV Coil Current [A]	(0 ± 0)	
Magnet Center Offset X [μm] - (< ±40.0) (-8.5 ± 0.4) × E-1 Magnet Center Offset Y [μm] - (< ±40.0) (9.30 ± 0.03) Roll [mrad] - (< ±0.3) (-2.88 ± 0.02) × E Electric Parameters Indutance [mH] 4.781	QS Coil Current [A]	(0 ± 0)	
Magnet Center Offset Y [μm] - (< ±40.0) (9.30 ± 0.03) Roll [mrad] - (< ±0.3) (-2.88 ± 0.02) x E Electric Parameters Indutance [mH] 4.781	Integrated Gradient [T]	(-5.240210 ± 0.000009	
Roll [mrad] - (< ±0.3)	Magnet Center Offset X [μm] - (< ±40.0)	(-8.5 ± 0.4) x E-1	
Electric Parameters Indutance [mH] 4.781	Magnet Center Offset Y [μm] - (< ±40.0)	(9.30 ± 0.03)	
Indutance [mH] 4.781	Roll [mrad] - (< ±0.3)	(-2.88 ± 0.02) x E-1	
• •	Electric Parameters		
Voltage IVI 4 4843	Indutance [mH]	4.781	
Voltage [V]	Voltage [V]	4.4843	
Resistance [m Ω] 30.3	Resistance [m Ω]	30.3	
Main Coil Number of Turns 20.0	Main Coil Number of Turns	20.0	



	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)	(7.1 ± 0.3) x E-5	(-7.75 ± 0.03) x E-4
2 (quadrupole)	(1.000000 ± 0.000003)	(-5.76 ± 0.04) x E-4
3 (sextupole)	(1.38 ± 0.04) x E-4	(2.95 ± 0.04) x E-4
4	(1.03 ± 0.02) x E-4	(3.2 ± 0.3) x E-5
5	(1.9 ± 0.2) x E-5	(-3.3 ± 0.4) x E-5
6	(-4.23 ± 0.04) x E-4	(3.6 ± 0.4) x E-5
7	(6 ± 3) x E-6	(-1.8 ± 0.5) x E-5
8	(-4 ± 5) x E-6	(-1.1 ± 0.3) x E-5
9	(5 ± 4) x E-6	(-4 ± 6) x E-6
10	(1.527 ± 0.003) x E-3	(-10 ± 4) x E-6
11	(5.1 ± 30.0) x E-7	(10 ± 3) x E-6
12	(6.7 ± 54.0) x E-7	(3 ± 5) x E-6
13	(-2 ± 4) x E-6	(5 ± 4) x E-6
14	(-6.73 ± 0.01) x E-4	(-1.2 ± 0.3) x E-5
15	(-2 ± 4) x E-6	(-3 ± 3) x E-6

