



S15-049

STORAGE RING MAGNET REPORT

Results

Date 03/07/2018

Hour 10:54:41

Temperature [°C] 23.452

Number of Measurements 9

Main Coil Current [A] (167.7989 ± 0.0008)

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] (-359.436 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (19.72 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (29.87 ± 0.05)

Roll [mrad] - (< ±0.3) (-2.3 ± 0.3) × E-2

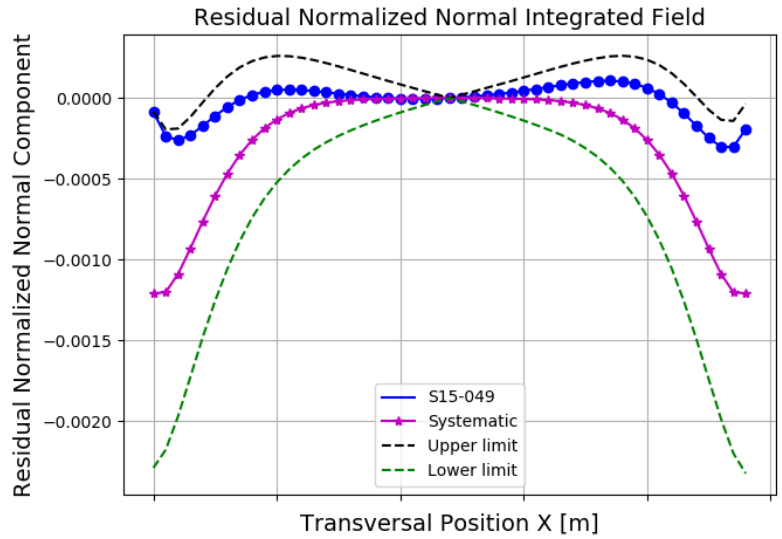
Electric Parameters

Inductance [mH] 3.157

Voltage [V] 6.0106

Resistance [mΩ] 35.82

Main Coil Number of Turns 11.25



n	Normalized Normal Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾]
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1 (dipole)	(-2.33 ± 0.07) × E-4	(4.5 ± 0.1) × E-4
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2 (quadrupole)	(-3.286 ± 0.005) × E-3	(-4.978 ± 0.008) × E-3
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3 (sextupole)	(1.000000 ± 0.000010)	(-6.8 ± 0.8) × E-5
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4	(8.8 ± 0.8) × E-5	(3.49 ± 0.07) × E-4
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5	(3.98 ± 0.08) × E-4	(-2.20 ± 0.09) × E-4
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6	(-1.3 ± 0.1) × E-4	(4.8 ± 10.5) × E-6
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7	(1.4 ± 0.1) × E-4	(7 ± 7) × E-6
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8	(1.8 ± 0.8) × E-5	(-1 ± 1) × E-5
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9	(-1.970 ± 0.007) × E-3	(1.14 ± 0.09) × E-4
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10	(-6.6 ± 88.5) × E-7	(4.0 ± 11.5) × E-6
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11	(-1.3 ± 0.9) × E-5	(2.0 ± 10.5) × E-6
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12	(-5 ± 8) × E-6	(4.5 ± 13.1) × E-6
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13	(-4.0 ± 11.5) × E-6	(4 ± 7) × E-6
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14	(-2.0 ± 1.0) × E-5	(-4 ± 1) × E-5
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15	(1.31 ± 0.01) × E-3	(-2 ± 1) × E-5
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