

Test Laboratory: KWC

Date: 11/16/2009

**TCoil\_2007\_FCC K53-01 PCS only\_111609**

Communication System: CDMA-1900, Frequency: 1851.25 MHz, Duty Cycle: 1:1  
 Medium: T-Coil, Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
 Phantom: HAC Test Arch with AMCC, Phantom section: TCoil Section

**DASY4 Configuration:**

Probe: AM1DV2 - 1045, , Calibrated: 9/22/2009  
 Sensor-Surface: 0mm (Fix Surface),  
 Electronics: DAE4 Sn530, Calibrated: 3/12/2009  
 Measurement SW: DASY4, V4.7 Build 80  
 Postprocessing SW: SEMCAD, V1.8 Build 186  
**Temperature:** Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**General Scans\_25/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Measurement grid: dx=10mm, dy=10mm  
 Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

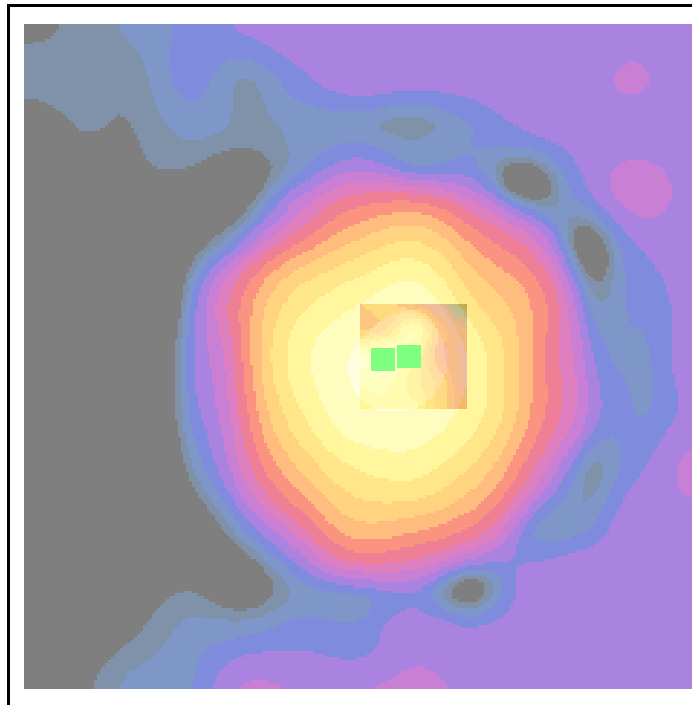
ABM1/ABM2 = 49.5 dB  
 ABM1 comp = -2.99 dB A/m  
 BWC Factor = 0.155979 dB  
 Location: -3.7, 0, 3.7 mm

**General Scans\_25/z (axial) fine 2mm 8 x 8/ABM Interpolated SNR(x,y,z) (41x41x1):**

Measurement grid: dx=10mm, dy=10mm  
 Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
 BWC applied: 0.155979 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

ABM1/ABM2 = 48.6 dB  
 ABM1 comp = -2.94 dB A/m  
 BWC Factor = 0.155979 dB  
 Location: -2, 0.2, 3.7 mm



0 dB = 300.3

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**TCoil\_2007\_FCC K53-01 PCS only\_111609**

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 Medium: T-Coil, Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
 Phantom: HAC Test Arch with AMCC, Phantom section: TCoil Section

**DASY4 Configuration:**

Probe: AM1DV2 - 1045, , Calibrated: 9/22/2009  
 Sensor-Surface: 0mm (Fix Surface),  
 Electronics: DAE4 Sn530, Calibrated: 3/12/2009  
 Measurement SW: DASY4, V4.7 Build 80  
 Postprocessing SW: SEMCAD, V1.8 Build 186  
**Temperature:** Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**General Scans\_25/x (longitudinal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Measurement grid: dx=10mm, dy=10mm  
 Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
 BWC applied: 0.155979 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

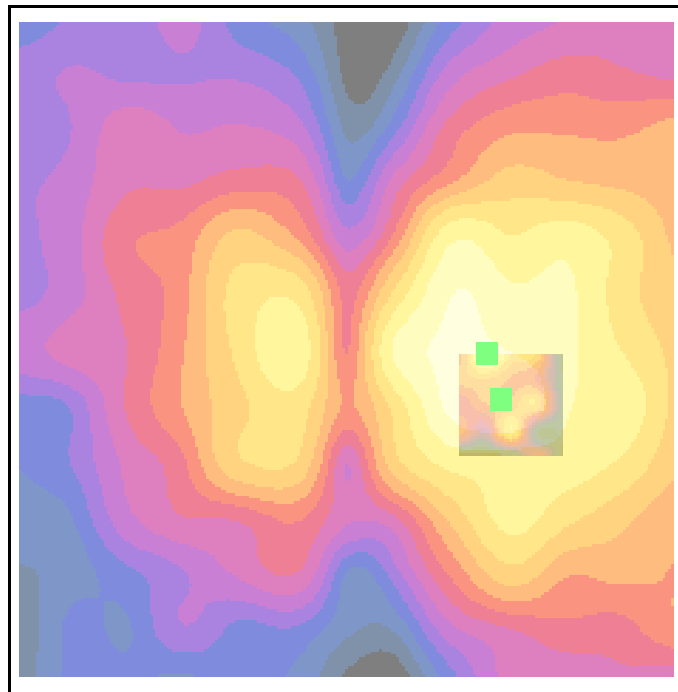
ABM1/ABM2 = 32.9 dB  
 ABM1 comp = -12.4 dB A/m  
 BWC Factor = 0.155979 dB  
 Location: -11.7, 3.7, 3.7 mm

**General Scans\_25/x (longitudinal) fine 2mm 8 x 8/ABM Interpolated SNR(x,y,z) (41x41x1):**

Measurement grid: dx=10mm, dy=10mm  
 Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
 BWC applied: 0.155979 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

ABM1/ABM2 = 32.6 dB  
 ABM1 comp = -12.2 dB A/m  
 BWC Factor = 0.155979 dB  
 Location: -10.7, 0.2, 3.7 mm



0 dB = 44.3

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**TCoil\_2007\_FCC K53-01 PCS only\_111609**

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 Medium: T-Coil, Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
 Phantom: HAC Test Arch with AMCC, Phantom section: TCoil Section

**DASY4 Configuration:**

Probe: AM1DV2 - 1045, , Calibrated: 9/22/2009  
 Sensor-Surface: 0mm (Fix Surface),  
 Electronics: DAE4 Sn530, Calibrated: 3/12/2009  
 Measurement SW: DASY4, V4.7 Build 80  
 Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:** Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**General Scans\_25/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Measurement grid: dx=10mm, dy=10mm  
 Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
 BWC applied: 0.155979 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

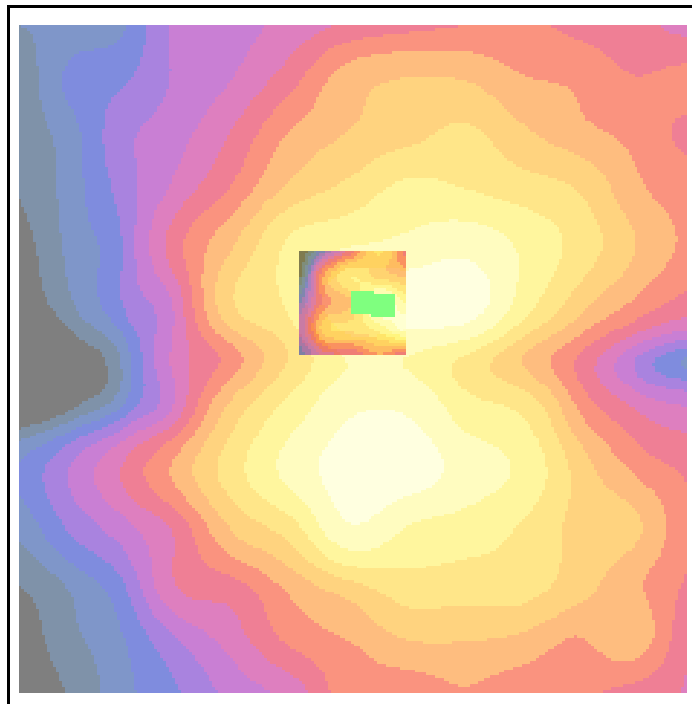
ABM1/ABM2 = 42.7 dB  
 ABM1 comp = -9.47 dB A/m  
 BWC Factor = 0.155979 dB  
 Location: -0.8, -4.2, 3.7 mm

**General Scans\_25/y (transversal) fine 2mm 8 x 8/ABM Interpolated SNR(x,y,z) (41x41x1):**

Measurement grid: dx=10mm, dy=10mm  
 Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
 BWC applied: 0.155979 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

ABM1/ABM2 = 43.3 dB  
 ABM1 comp = -10.2 dB A/m  
 BWC Factor = 0.155979 dB  
 Location: -2.2, -4, 3.7 mm



0 dB = 136.4

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**TCoil\_2007\_FCC K53-01 PCS only\_111609**

Communication System: CDMA-1900, Frequency: 1880 MHz, Duty Cycle: 1:1  
 Medium: T-Coil, Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
 Phantom: HAC Test Arch with AMCC, Phantom section: TCoil Section

**DASY4 Configuration:**

Probe: AM1DV2 - 1045, , Calibrated: 9/22/2009  
 Sensor-Surface: 0mm (Fix Surface),  
 Electronics: DAE4 Sn530, Calibrated: 3/12/2009  
 Measurement SW: DASY4, V4.7 Build 80  
 Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:**

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**General Scans\_600/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Measurement grid: dx=10mm, dy=10mm  
 Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
 BWC applied: 0.155979 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

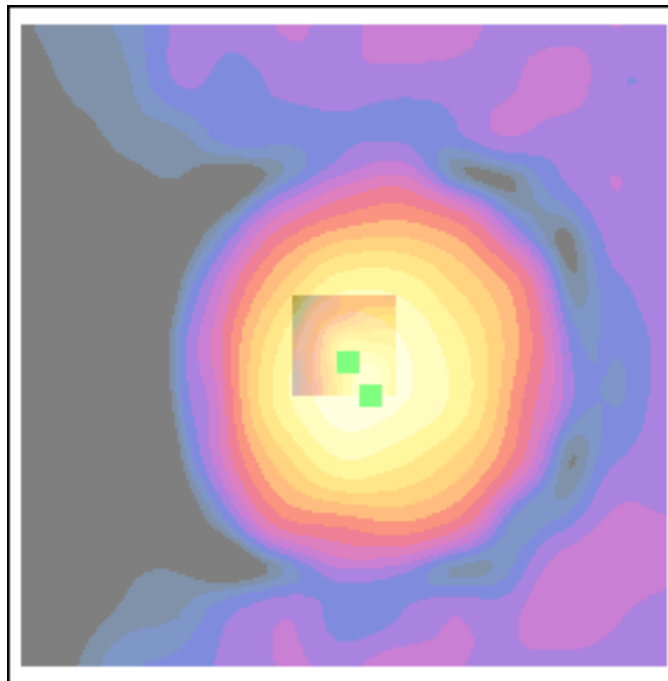
ABM1/ABM2 = 49.2 dB  
 ABM1 comp = -2.08 dB A/m  
 BWC Factor = 0.155979 dB  
 Location: -0.4, 1.2, 3.7 mm

**General Scans\_600/z (axial) fine 2mm 8 x 8/ABM Interpolated SNR(x,y,z) (41x41x1):**

Measurement grid: dx=10mm, dy=10mm  
 Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
 BWC applied: 0.155979 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

ABM1/ABM2 = 50.2 dB  
 ABM1 comp = -1.74 dB A/m  
 BWC Factor = 0.155979 dB  
 Location: -2, 4, 3.7 mm



0 dB = 289.8

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**TCoil\_2007\_FCC K53-01 PCS only\_111609**

Communication System: CDMA-1900, Frequency: 1880 MHz, Duty Cycle: 1:1  
 Medium: T-Coil, Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
 Phantom: HAC Test Arch with AMCC, Phantom section: TCoil Section

**DASY4 Configuration:**

Probe: AM1DV2 - 1045, , Calibrated: 9/22/2009  
 Sensor-Surface: 0mm (Fix Surface),  
 Electronics: DAE4 Sn530, Calibrated: 3/12/2009  
 Measurement SW: DASY4, V4.7 Build 80  
 Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:**

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**General Scans\_600/x (longitudinal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Measurement grid: dx=10mm, dy=10mm  
 Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
 BWC applied: 0.155979 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

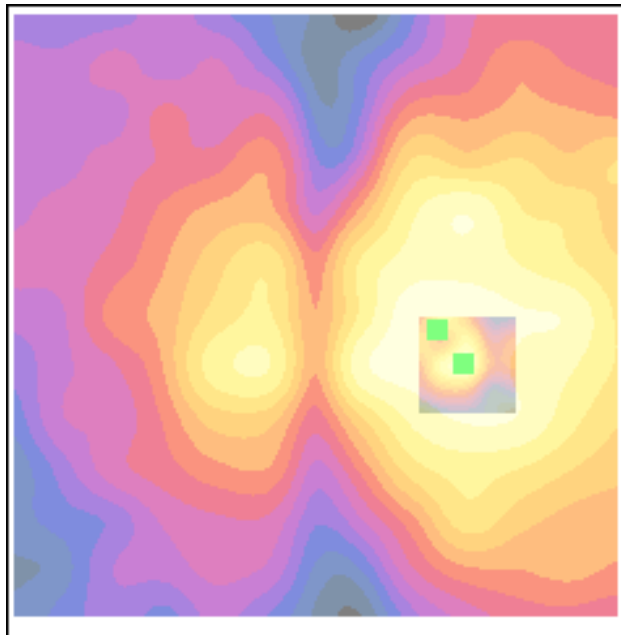
ABM1/ABM2 = 31.6 dB  
 ABM1 comp = -13.2 dB A/m  
 BWC Factor = 0.155979 dB  
 Location: -10, 1.2, 3.7 mm

**General Scans\_600/x (longitudinal) fine 2mm 8 x 8/ABM Interpolated SNR(x,y,z) (41x41x1):**

Measurement grid: dx=10mm, dy=10mm  
 Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
 BWC applied: 0.155979 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

ABM1/ABM2 = 34.3 dB  
 ABM1 comp = -11.5 dB A/m  
 BWC Factor = 0.155979 dB  
 Location: -12.1, 4, 3.7 mm



0 dB = 38.1

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**TCoil\_2007\_FCC K53-01 PCS only\_111609**

Communication System: CDMA-1900, Frequency: 1880 MHz, Duty Cycle: 1:1  
 Medium: T-Coil, Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
 Phantom: HAC Test Arch with AMCC, Phantom section: TCoil Section

**DASY4 Configuration:**

Probe: AM1DV2 - 1045, , Calibrated: 9/22/2009  
 Sensor-Surface: 0mm (Fix Surface),  
 Electronics: DAE4 Sn530, Calibrated: 3/12/2009  
 Measurement SW: DASY4, V4.7 Build 80  
 Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:**

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**General Scans\_600/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Measurement grid: dx=10mm, dy=10mm  
 Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
 BWC applied: 0.155979 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

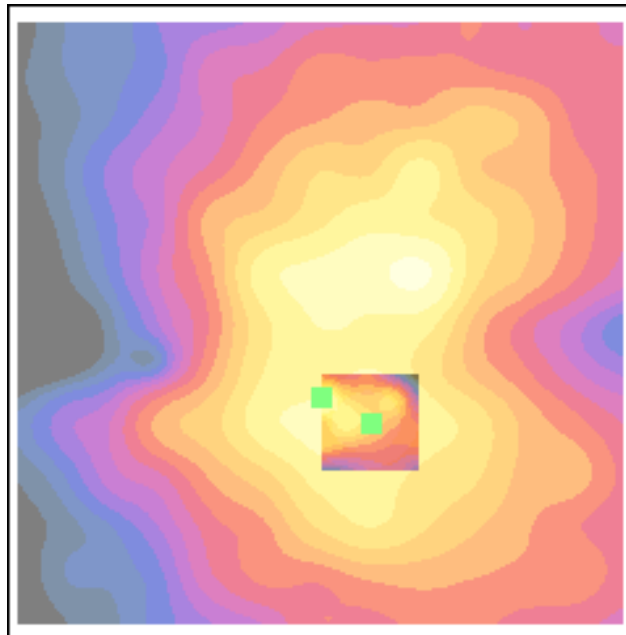
ABM1/ABM2 = 45.4 dB  
 ABM1 comp = -9.85 dB A/m  
 BWC Factor = 0.155979 dB  
 Location: -4.2, 8.3, 3.7 mm

**General Scans\_600/y (transversal) fine 2mm 8 x 8/ABM Interpolated SNR(x,y,z) (41x41x1):**

Measurement grid: dx=10mm, dy=10mm  
 Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
 BWC applied: 0.155979 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

ABM1/ABM2 = 44.6 dB  
 ABM1 comp = -11.3 dB A/m  
 BWC Factor = 0.155979 dB  
 Location: -0.2, 6.3, 3.7 mm



0 dB = 186.0

Test Laboratory: KWC

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**TCoil\_2007\_FCC K53-01 PCS only\_111609**

Communication System: CDMA-1900, Frequency: 1908.75 MHz, Duty Cycle: 1:1  
 Medium: T-Coil, Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
 Phantom: HAC Test Arch with AMCC, Phantom section: TCoil Section

**DASY4 Configuration:**

Probe: AM1DV2 - 1045, , Calibrated: 9/22/2009  
 Sensor-Surface: 0mm (Fix Surface),  
 Electronics: DAE4 Sn530, Calibrated: 3/12/2009  
 Measurement SW: DASY4, V4.7 Build 80  
 Postprocessing SW: SEMCAD, V1.8 Build 186  
**Temperature:** Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**General Scans\_1175/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Measurement grid: dx=10mm, dy=10mm  
 Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
 BWC applied: 0.155979 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

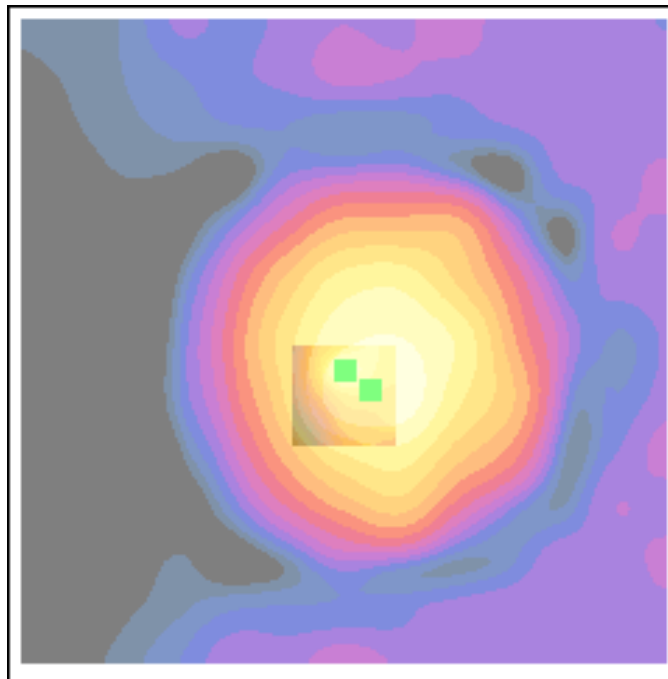
ABM1/ABM2 = 49.5 dB  
 ABM1 comp = -2.51 dB A/m  
 BWC Factor = 0.155979 dB  
 Location: -2.1, 3.7, 3.7 mm

**General Scans\_1175/z (axial) fine 2mm 8 x 8/ABM Interpolated SNR(x,y,z) (41x41x1):**

Measurement grid: dx=10mm, dy=10mm  
 Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
 BWC applied: 0.155979 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

ABM1/ABM2 = 48.9 dB  
 ABM1 comp = -1.80 dB A/m  
 BWC Factor = 0.155979 dB  
 Location: -0.2, 2.2, 3.7 mm



0 dB = 299.1

Test Laboratory: KWC

Date/ 11/16/2009

**TCoil\_2007\_FCC K53-01 PCS only\_111609**

Communication System: CDMA-1900, Frequency: 1908.75 MHz, Duty Cycle: 1:1  
 Medium: T-Coil, Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
 Phantom: HAC Test Arch with AMCC, Phantom section: TCoil Section

**DASY4 Configuration:**

Probe: AM1DV2 - 1045, , Calibrated: 9/22/2009  
 Sensor-Surface: 0mm (Fix Surface),  
 Electronics: DAE4 Sn530, Calibrated: 3/12/2009  
 Measurement SW: DASY4, V4.7 Build 80  
 Postprocessing SW: SEMCAD, V1.8 Build 186  
**Temperature:** Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**General Scans\_1175/x (longitudinal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Measurement grid: dx=10mm, dy=10mm  
 Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
 BWC applied: 0.155979 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

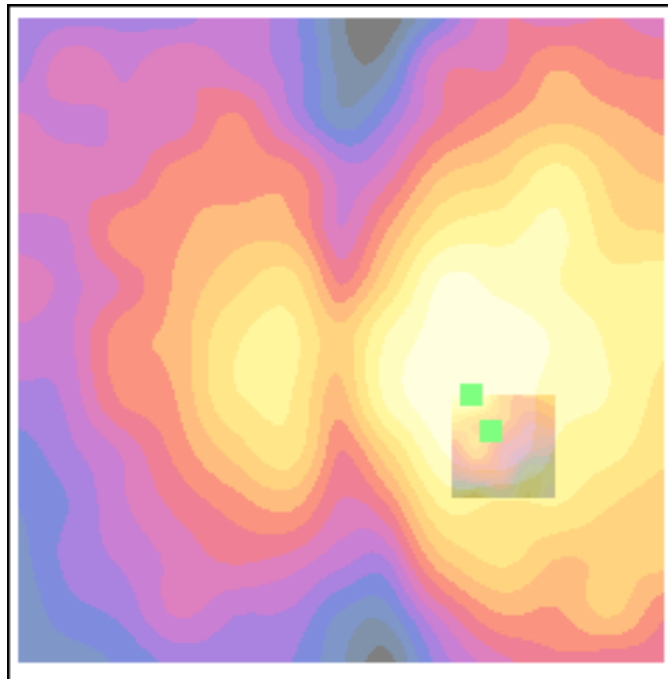
ABM1/ABM2 = 31.5 dB  
 ABM1 comp = -14.4 dB A/m  
 BWC Factor = 0.155979 dB  
 Location: -11.7, 7.1, 3.7 mm

**General Scans\_1175/x (longitudinal) fine 2mm 8 x 8/ABM Interpolated SNR(x,y,z) (41x41x1):**

Measurement grid: dx=10mm, dy=10mm  
 Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
 BWC applied: 0.155979 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

ABM1/ABM2 = 33.0 dB  
 ABM1 comp = -12.0 dB A/m  
 BWC Factor = 0.155979 dB  
 Location: -10.1, 4.3, 3.7 mm



0 dB = 37.7



Test Laboratory: KWC

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**TCoil\_2007\_FCC K53-01 PCS only\_111609**

Communication System: CDMA-1900, Frequency: 1908.75 MHz, Duty Cycle: 1:1  
 Medium: T-Coil, Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
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**Temperature:** Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**General Scans\_1175/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Measurement grid: dx=10mm, dy=10mm  
 Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
 BWC applied: 0.155979 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

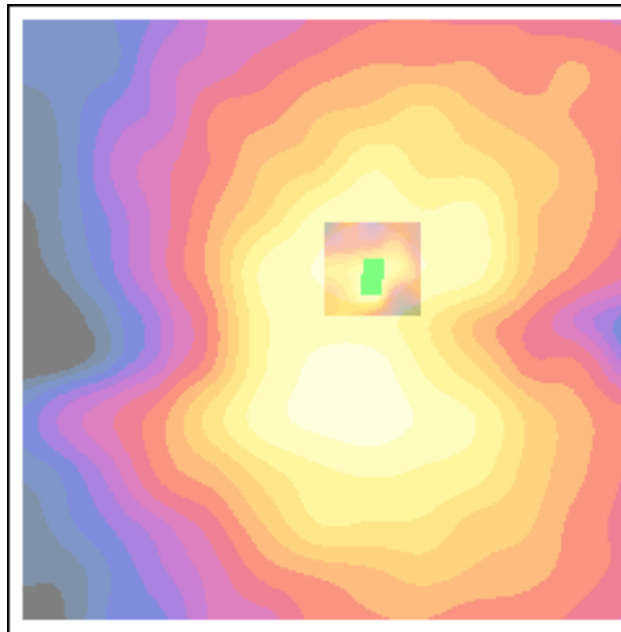
ABM1/ABM2 = 42.7 dB  
 ABM1 comp = -12.0 dB A/m  
 BWC Factor = 0.155979 dB  
 Location: -4.2, -4.2, 3.7 mm

**General Scans\_1175/y (transversal) fine 2mm 8 x 8/ABM Interpolated SNR(x,y,z) (41x41x1):**

Measurement grid: dx=10mm, dy=10mm  
 Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
 BWC applied: 0.155979 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

ABM1/ABM2 = 44.1 dB  
 ABM1 comp = -11.2 dB A/m  
 BWC Factor = 0.155979 dB  
 Location: -4, -2.8, 3.7 mm



0 dB = 136.4