



Applicant	Kyocera
FCC ID:	V65C5170
Report #:	CT-C5170-13C-0212-R0

**Exhibit 13 Appendix C: T-Coil Data Plot**

**PCS**

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Date: 02/24/2012

Test Laboratory: Comptest/Kyocera

**FCC\_C5170\_TCoil\_PCS\_25 Z**

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: 9/15/2011

Sensor-Surface: 0mm (Fix Surface),

Electronics: DAE4 Sn527, Calibrated: 7/13/2011

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

BWC applied: 0.155979 dB

Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

ABM1/ABM2 = 47.8 dB

ABM1 comp = -3.47 dB A/m

BWC Factor = 0.155979 dB

Location: 0, -0.4, 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

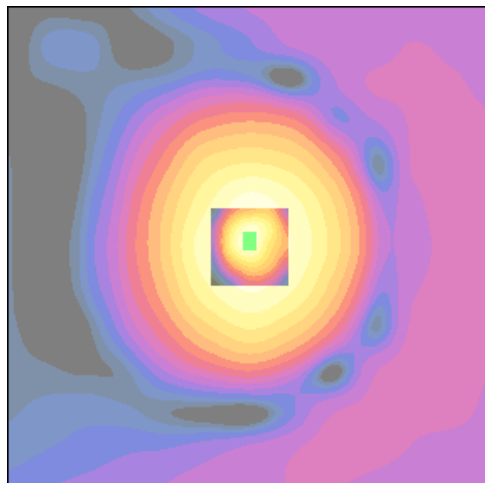
**Cursor:**

ABM1/ABM2 = 48.6 dB

ABM1 comp = -3.18 dB A/m

BWC Factor = 0.155979 dB

Location: 0, -0.8, 3.7 mm



0 dB = 244.4

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**FCC\_C5170\_TCoil\_PCS\_25 X**

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: 9/15/2011

Sensor-Surface: 0mm (Fix Surface),

Electronics: DAE4 Sn527, Calibrated: 7/13/2011

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 = 43.0 dB

ABM1 comp = -12.2 dB A/m

BWC Factor = 0.155979 dB

Location: -8.3, -0.8, 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

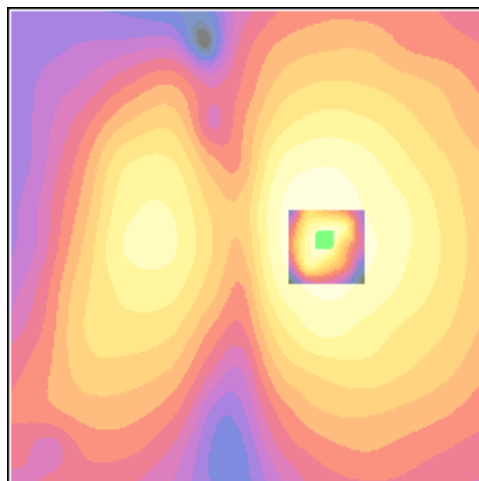
**Cursor:**

ABM1/ABM2 = 43.2 dB

ABM1 comp = -11.9 dB A/m

BWC Factor = 0.155979 dB

Location: -7.9, -0.6, 3.7 mm



0 dB = 140.5

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**FCC\_C5170\_TCoil\_PCS\_25 Y**

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: 9/15/2011

Sensor-Surface: 0mm (Fix Surface),

Electronics: DAE4 Sn527, Calibrated: 7/13/2011

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 = 45.1 dB

ABM1 comp = -12.6 dB A/m

BWC Factor = 0.155979 dB

Location: 0, 5.8, 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

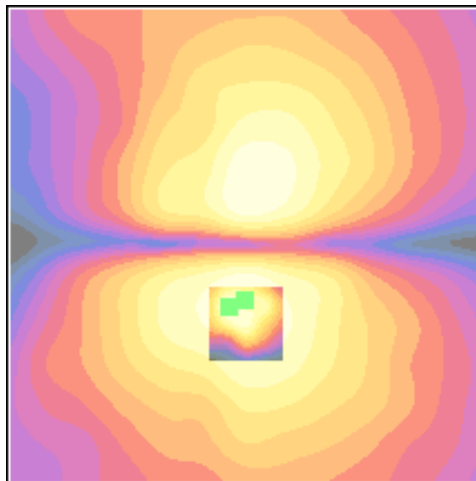
**Cursor:**

ABM1/ABM2 = 45.2 dB

ABM1 comp = -12.0 dB A/m

BWC Factor = 0.155979 dB

Location: 1.8, 6.5, 3.7 mm



0 dB = 180.1

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**FCC\_C5170\_TCoil\_PCS\_600 Z**

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: 9/15/2011  
 Sensor-Surface: 0mm (Fix Surface),  
 Electronics: DAE4 Sn527, Calibrated: 7/13/2011  
 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: 0.155041 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

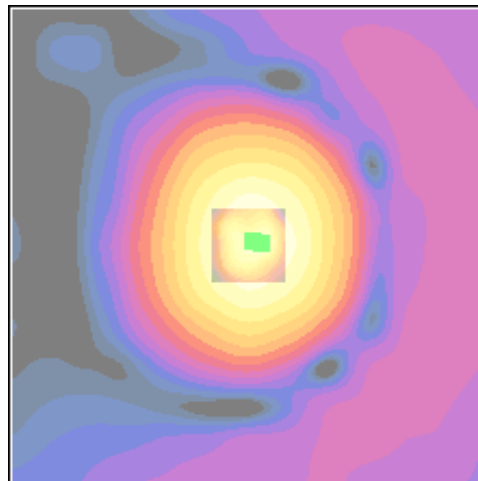
ABM1/ABM2 = 47.6 dB  
 ABM1 comp = -4.03 dB A/m  
 BWC Factor = 0.155041 dB  
 Location: -0.4, -0.4, 3.7 mm

**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: 0.155041 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

ABM1/ABM2 = 47.9 dB  
 ABM1 comp = -4.47 dB A/m  
 BWC Factor = 0.155041 dB  
 Location: -1.4, -0.2, 3.7 mm



0 dB = 239.8

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**FCC\_C5170\_TCoil\_PCS\_600 X**

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: 9/15/2011  
 Sensor-Surface: 0mm (Fix Surface),  
 Electronics: DAE4 Sn527, Calibrated: 7/13/2011  
 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: 0.155041 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

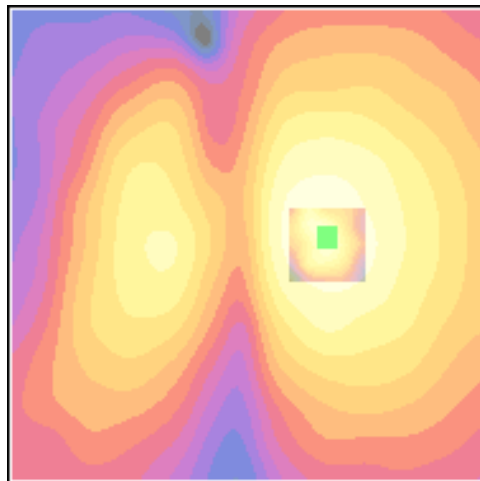
ABM1/ABM2 = 43.0 dB  
 ABM1 comp = -12.2 dB A/m  
 BWC Factor = 0.155041 dB  
 Location: -8.3, -0.8, 3.7 mm

**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: 0.155041 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

ABM1/ABM2 = 42.7 dB  
 ABM1 comp = -12.5 dB A/m  
 BWC Factor = 0.155041 dB  
 Location: -8.3, -0.6, 3.7 mm



0 dB = 141.8

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**FCC\_C5170\_TCoil\_PCS\_600 Y**

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: 9/15/2011  
 Sensor-Surface: 0mm (Fix Surface),  
 Electronics: DAE4 Sn527, Calibrated: 7/13/2011  
 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: 0.155041 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

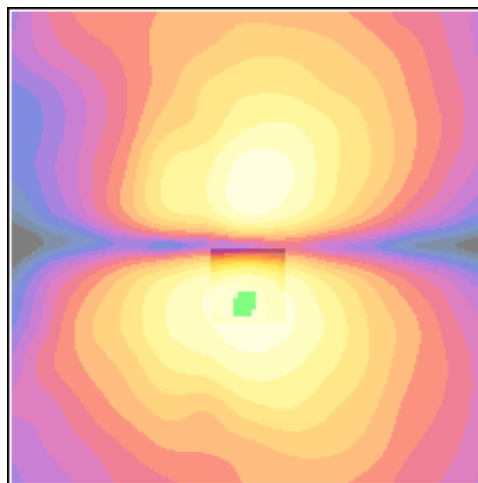
ABM1/ABM2 = 45.3 dB  
 ABM1 comp = -12.1 dB A/m  
 BWC Factor = 0.155041 dB  
 Location: 0, 5.8, 3.7 mm

**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: 0.155041 dB  
 Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

ABM1/ABM2 = 45.6 dB  
 ABM1 comp = -11.8 dB A/m  
 BWC Factor = 0.155041 dB  
 Location: 0.6, 6.4, 3.7 mm



0 dB = 184.8

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Test Laboratory: Comptest/Kyocera

**FCC\_C5170\_TCoil\_PCS\_1175 Z**

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: 9/15/2011

Sensor-Surface: 0mm (Fix Surface),

Electronics: DAE4 Sn527, Calibrated: 7/13/2011

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 = 47.9 dB

ABM1 comp = -3.24 dB A/m

BWC Factor = 0.155979 dB

Location: 0, 0, 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

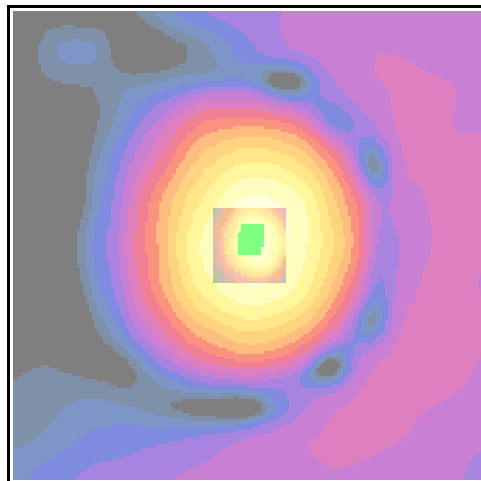
**Cursor:**

ABM1/ABM2 = 47.7 dB

ABM1 comp = -3.65 dB A/m

BWC Factor = 0.155979 dB

Location: -0.4, -1, 3.7 mm



0 dB = 249.1



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Test Laboratory: Comptest/Kyocera

**FCC\_C5170\_TCoil\_PCS\_1175 X**

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: 9/15/2011

Sensor-Surface: 0mm (Fix Surface),

Electronics: DAE4 Sn527, Calibrated: 7/13/2011

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 = 42.3 dB

ABM1 comp = -12.7 dB A/m

BWC Factor = 0.155979 dB

Location: -8.3, -2.5, 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

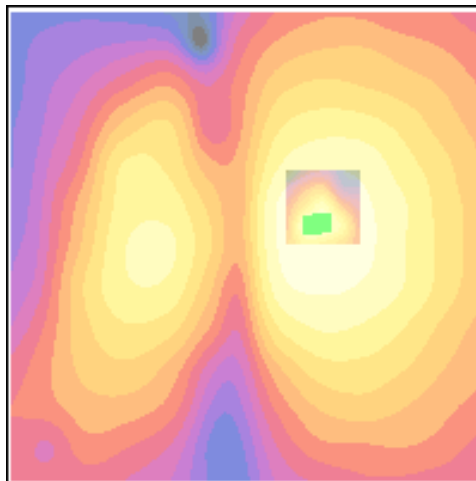
**Cursor:**

ABM1/ABM2 = 42.7 dB

ABM1 comp = -11.6 dB A/m

BWC Factor = 0.155979 dB

Location: -7.1, -2.2, 3.7 mm



0 dB = 129.9

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Test Laboratory: Comptest/Kyocera

**FCC\_C5170\_TCoil\_PCS\_1175 Y**

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: 9/15/2011

Sensor-Surface: 0mm (Fix Surface),

Electronics: DAE4 Sn527, Calibrated: 7/13/2011

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/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 = 44.9 dB

ABM1 comp = -12.6 dB A/m

BWC Factor = 0.155979 dB

Location: 0, 5.8, 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

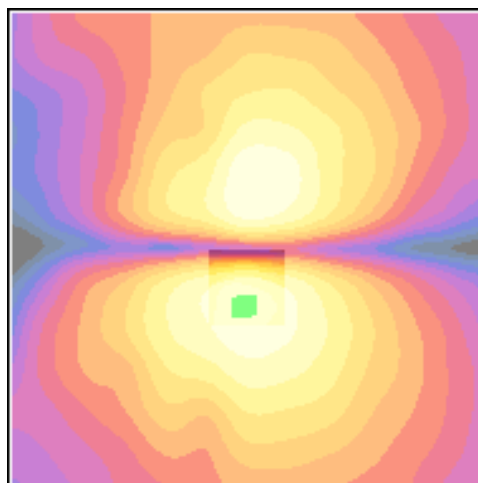
**Cursor:**

ABM1/ABM2 = 45.1 dB

ABM1 comp = -12.3 dB A/m

BWC Factor = 0.155979 dB

Location: 0.6, 6.2, 3.7 mm



0 dB = 175.8