



Applicant	Kyocera
FCC ID:	OVF-K33BIC04
Report #:	CT-S1310-13C-0612-R0

**EXHIBIT 13 APPENDIX C: T-COIL DATA PLOT**

**PCS**

Applicant	Kyocera
FCC ID:	OVF-K33BIC04
Report #:	CT-S1310-13C-0612-R0

Test Laboratory: COMPTEST/KYOCERA

Date: 06/01/2012

**FCC\_S1310\_TCoil\_PCS\_Ch. 25 z(axial)**

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: 0.155041 dB

Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

ABM1/ABM2 = 51.6 dB

ABM1 comp = 0.103 dB A/m

BWC Factor = 0.155041 dB

Location: 4.6, -4.2, 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: 0.155041 dB

Device Reference Point: 0.000, 0.000, -6.30 mm

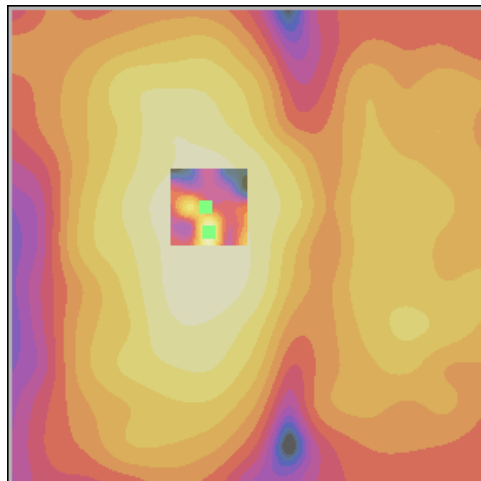
**Cursor:**

ABM1/ABM2 = 52.2 dB

ABM1 comp = 1.22 dB A/m

BWC Factor = 0.155041 dB

Location: 4.2, -1.6, 3.7 mm



0 dB = 380.9

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**FCC\_S1310\_TCoil\_PCS\_Ch. 25 x(longitudinal)**

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: 0.155041 dB

Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

ABM1/ABM2 = 49.7 dB

ABM1 comp = -3.83 dB A/m

BWC Factor = 0.155041 dB

Location: -7.5, 0, 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: 0.155041 dB

Device Reference Point: 0.000, 0.000, -6.30 mm

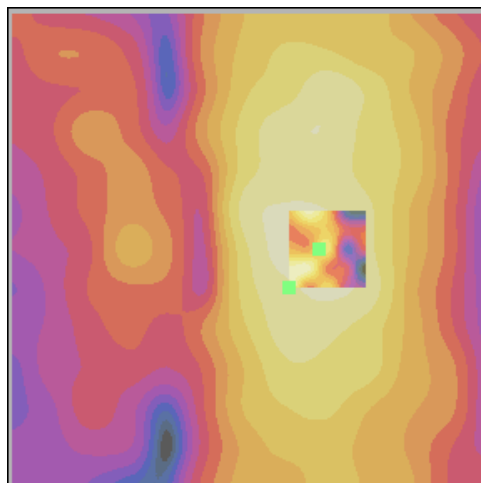
**Cursor:**

ABM1/ABM2 = 49.0 dB

ABM1 comp = -3.07 dB A/m

BWC Factor = 0.155041 dB

Location: -4.3, 4, 3.7 mm



0 dB = 306.1

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**FCC\_S1310\_TCoil\_PCS\_Ch. 25 y(transversal)**

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: 0.155041 dB

Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

ABM1/ABM2 = 48.6 dB

ABM1 comp = -8.13 dB A/m

BWC Factor = 0.155041 dB

Location: 4.2, 12.5, 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: 0.155041 dB

Device Reference Point: 0.000, 0.000, -6.30 mm

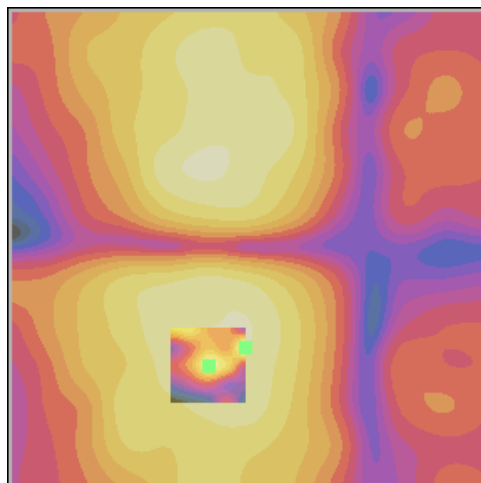
**Cursor:**

ABM1/ABM2 = 48.4 dB

ABM1 comp = -9.17 dB A/m

BWC Factor = 0.155041 dB

Location: 0.2, 10.5, 3.7 mm



0 dB = 268.3

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**FCC\_S1310\_TCoil\_PCS\_Ch. 600 z(axial)**

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: 0.155979 dB

Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

ABM1/ABM2 = 51.9 dB

ABM1 comp = -0.418 dB A/m

BWC Factor = 0.155979 dB

Location: 7.5, -7.5, 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

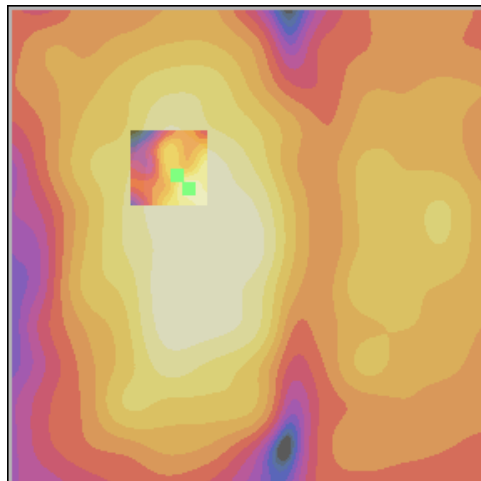
**Cursor:**

ABM1/ABM2 = 51.3 dB

ABM1 comp = -0.567 dB A/m

BWC Factor = 0.155979 dB

Location: 6.1, -6.1, 3.7 mm



0 dB = 394.2

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**FCC\_S1310\_TCoil\_PCS\_Ch. 600 x(longitudinal)**

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: 0.155979 dB

Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

ABM1/ABM2 = 48.3 dB

ABM1 comp = -3.51 dB A/m

BWC Factor = 0.155979 dB

Location: -4.6, 3.7, 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

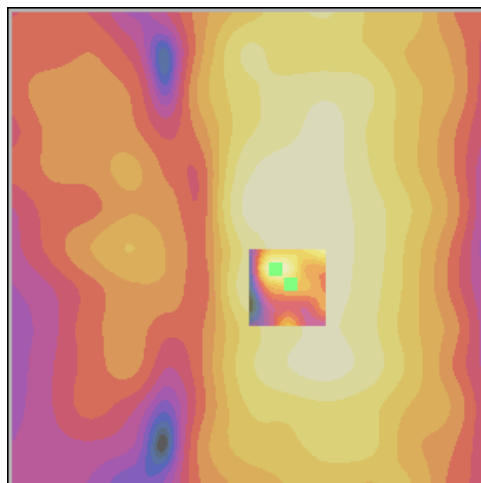
**Cursor:**

ABM1/ABM2 = 49.5 dB

ABM1 comp = -1.99 dB A/m

BWC Factor = 0.155979 dB

Location: -2.9, 2.2, 3.7 mm



0 dB = 260.5

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**FCC\_S1310\_TCoil\_PCS\_Ch. 600 y(transversal)**

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: 0.155979 dB

Device Reference Point: 0.000, 0.000, -6.30 mm

**Cursor:**

ABM1/ABM2 = 47.6 dB

ABM1 comp = -9.75 dB A/m

BWC Factor = 0.155979 dB

Location: 0.8, 12.1, 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

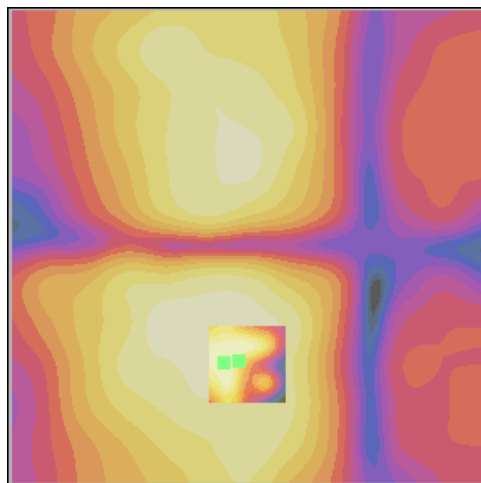
**Cursor:**

ABM1/ABM2 = 47.3 dB

ABM1 comp = -9.83 dB A/m

BWC Factor = 0.155979 dB

Location: 2.4, 12.3, 3.7 mm



0 dB = 239.0

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Date: 06/04/2012

**FCC\_S1310\_TCoil\_PCS\_Ch. 1175 z(axial)**

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 = 51.2 dB

ABM1 comp = 0.408 dB A/m

BWC Factor = 0.155979 dB

Location: 0.4, 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

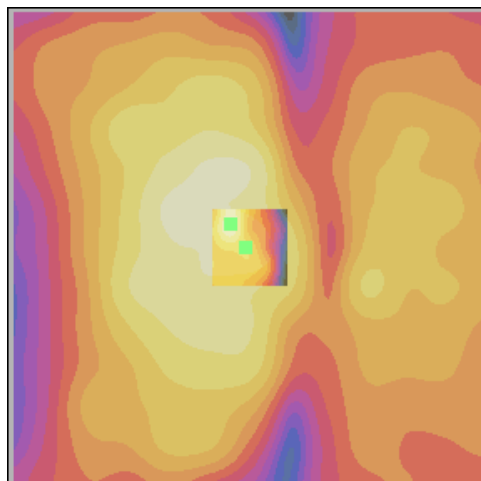
**Cursor:**

ABM1/ABM2 = 51.1 dB

ABM1 comp = 0.710 dB A/m

BWC Factor = 0.155979 dB

Location: 2, -2.4, 3.7 mm



0 dB = 361.2



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Test Laboratory: COMPTEST/KYOCERA

Date: 06/04/2012

**FCC\_S1310\_TCoil\_PCS\_Ch. 1175 x(longitudinal)**

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 = 48.6 dB

ABM1 comp = -3.95 dB A/m

BWC Factor = 0.155979 dB

Location: -8.3, 3.3, 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

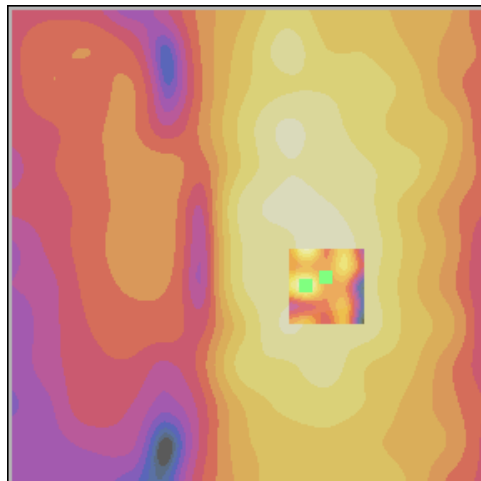
**Cursor:**

ABM1/ABM2 = 47.5 dB

ABM1 comp = -4.29 dB A/m

BWC Factor = 0.155979 dB

Location: -6.1, 4.2, 3.7 mm



0 dB = 268.0

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**FCC\_S1310\_TCoil\_PCS\_Ch. 1175 y(transversal)**

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 = 46.3 dB

ABM1 comp = -10.5 dB A/m

BWC Factor = 0.155979 dB

Location: 4.2, 12.5, 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

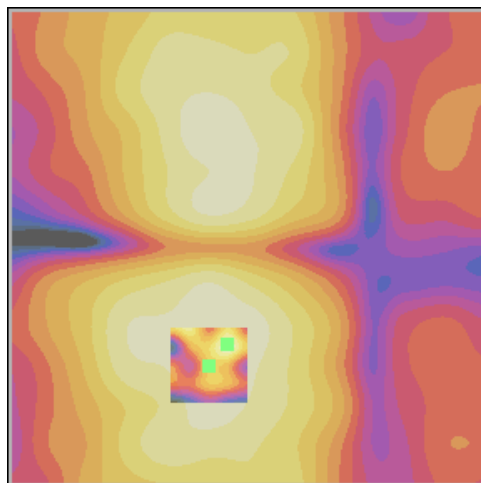
**Cursor:**

ABM1/ABM2 = 47.3 dB

ABM1 comp = -10.1 dB A/m

BWC Factor = 0.155979 dB

Location: 2.2, 10.3, 3.7 mm



0 dB = 206.4