

01 HAC T-Coil_GSM850_GSM_Ch189(Z)**DUT: 331403-03B**

Communication System: General GSM; Frequency: 836.4 MHz; Duty Cycle: 1:8

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.2 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013-5-7
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013-6-19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.4.5 (3634)

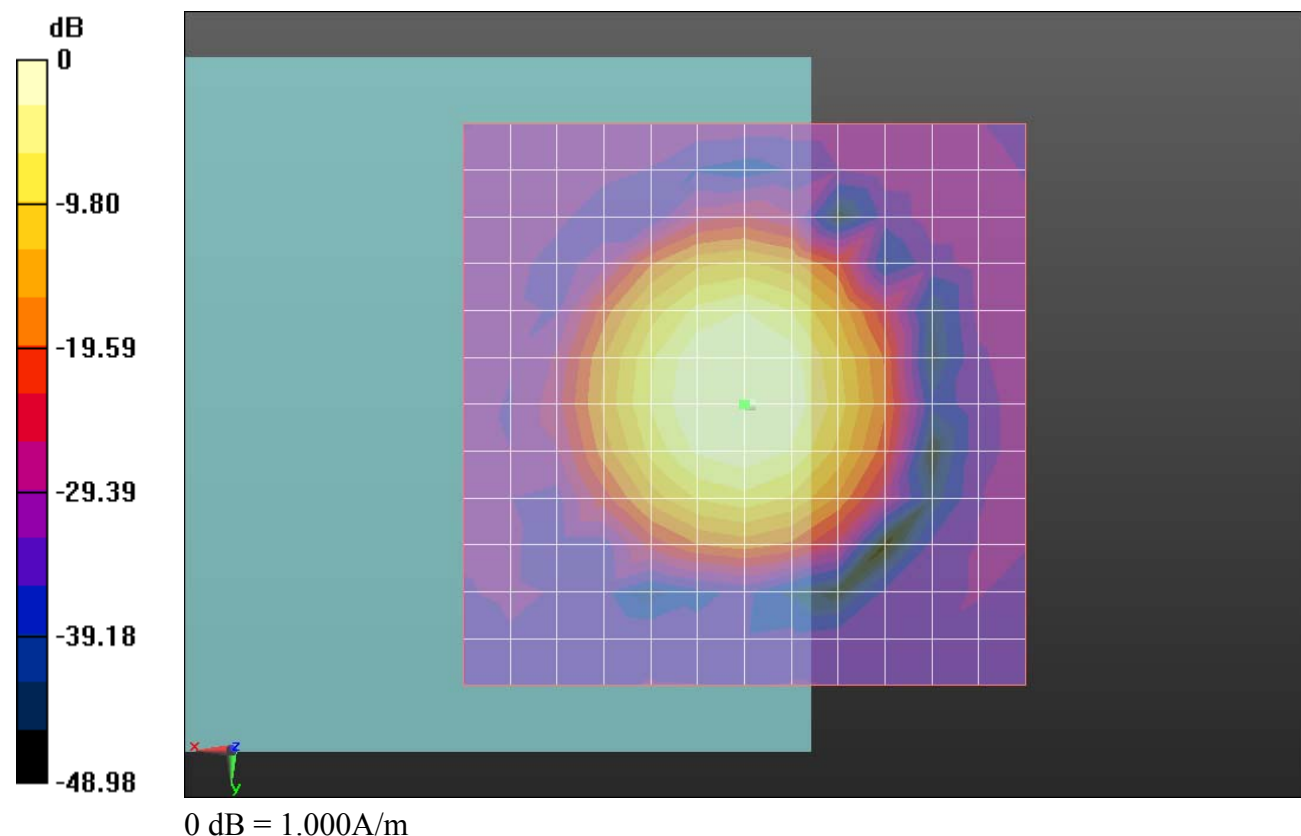
Ch189/z (axial) 4.2mm 50 x 50/ABM [HAC-2007] SNR(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm

ABM1/ABM2 = 37.71 dB

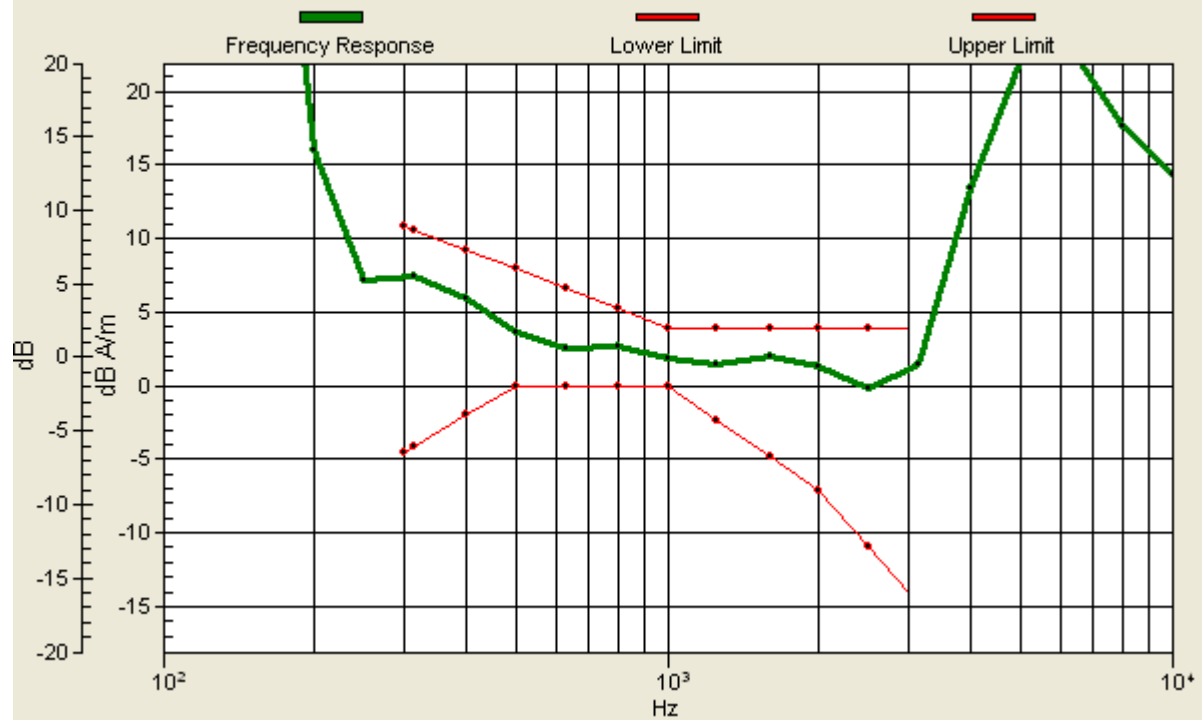
ABM1 comp = 2.42 dB A/m

Location: 0, 0, 3.7 mm



Ch189/z (axial) wideband at best S/N/ABM [HAC-2007] Freq Resp(x,y,z,f)

Loc: 0, 0, 3.7 mm Diff: 1.91dB



01 HAC T-Coil_GSM850_GSM_Ch189(X)**DUT: 331403-03B**

Communication System: General GSM; Frequency: 836.4 MHz; Duty Cycle: 1:8

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.2 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013-5-7
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013-6-19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.4.5 (3634)

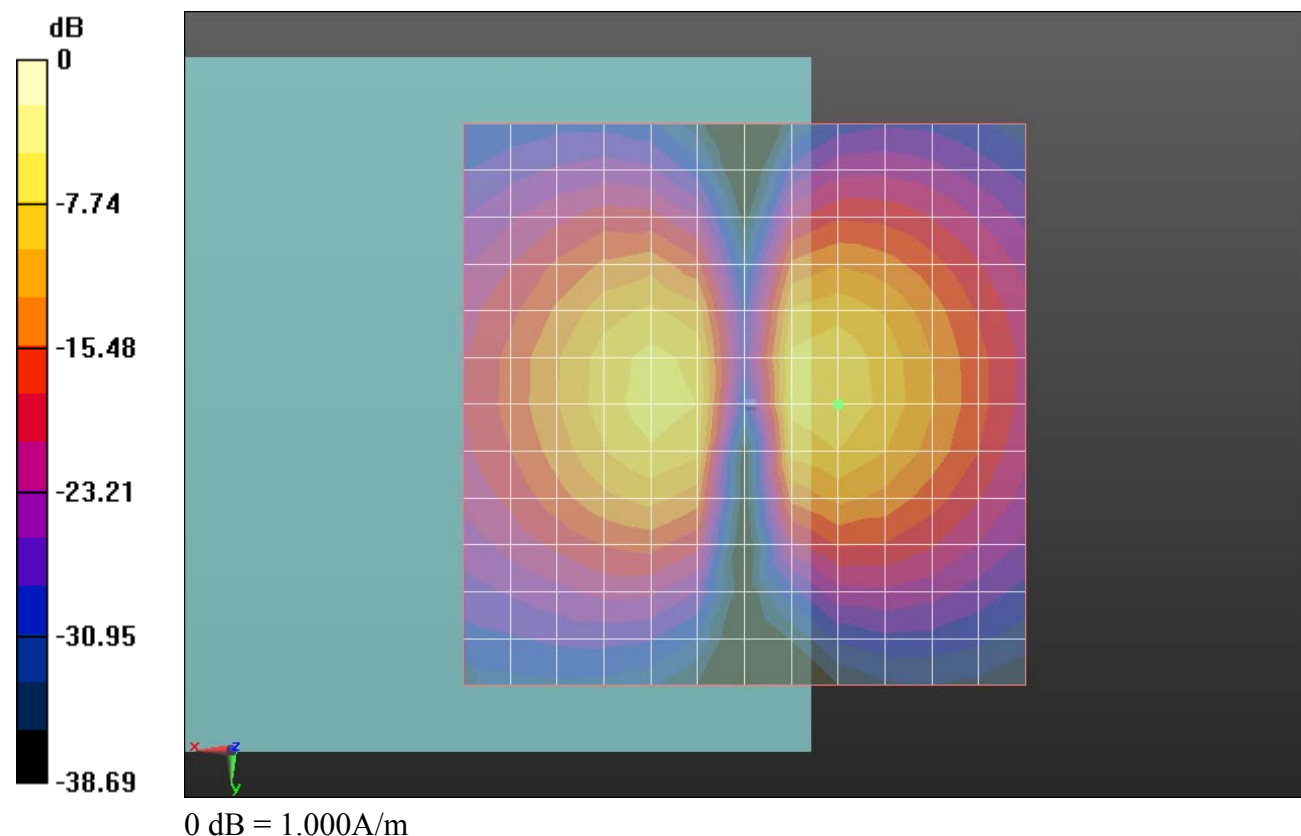
Ch189/x (longitudinal) 4.2mm 50 x 50/ABM [HAC-2007] SNR(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm

ABM1/ABM2 = 35.35 dB

ABM1 comp = -5.47 dB A/m

Location: -8.3, 0, 3.7 mm



01 HAC T-Coil_GSM850_GSM_Ch189(Y)**DUT: 331403-03B**

Communication System: General GSM; Frequency: 836.4 MHz; Duty Cycle: 1:8

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.2 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013-5-7
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013-6-19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.4.5 (3634)

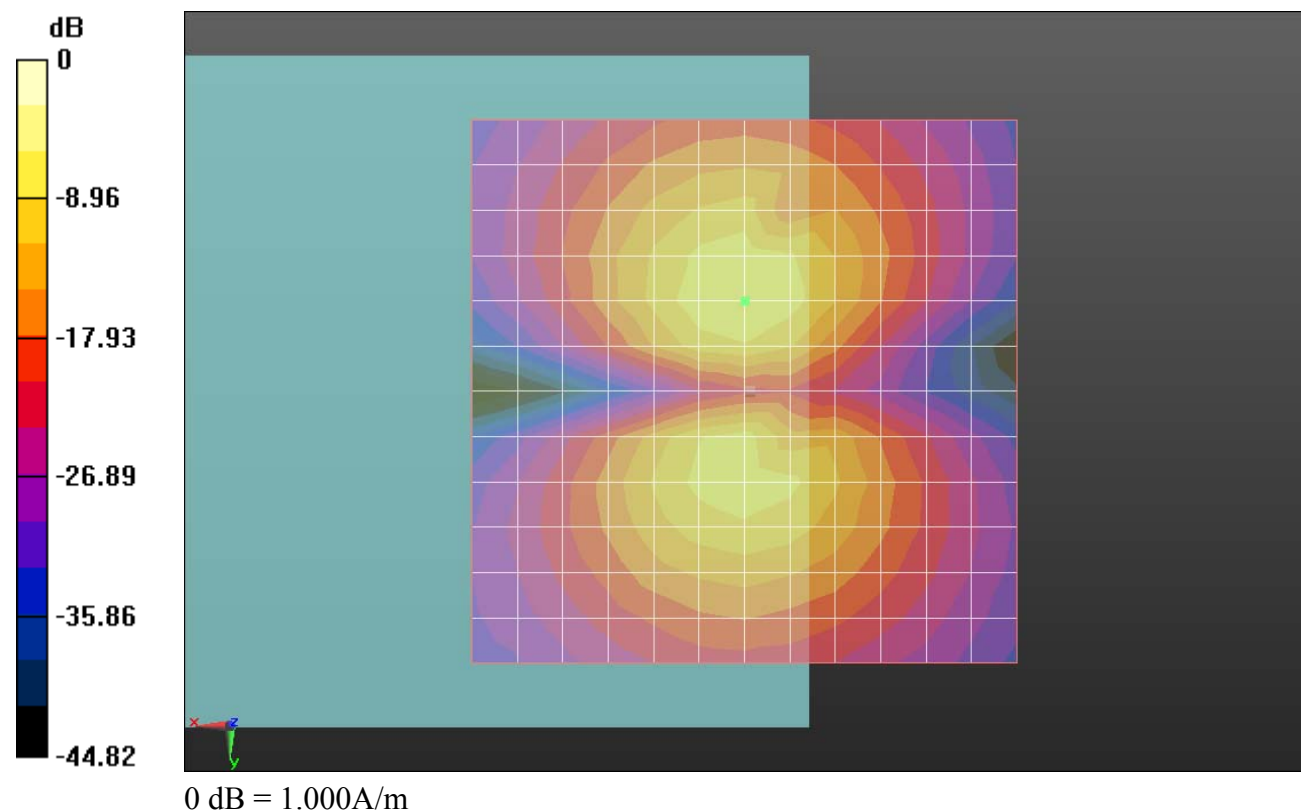
Ch189/y (transversal) 4.2mm 50 x 50/ABM [HAC-2007] SNR(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm

ABM1/ABM2 = 35.68 dB

ABM1 comp = -5.89 dB A/m

Location: 0, -8.3, 3.7 mm



02 HAC T-Coil_GSM1900_GSM_Ch661(Z)**DUT: 331403-03B**

Communication System: General GSM; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.2 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013-5-7
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013-6-19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.4.5 (3634)

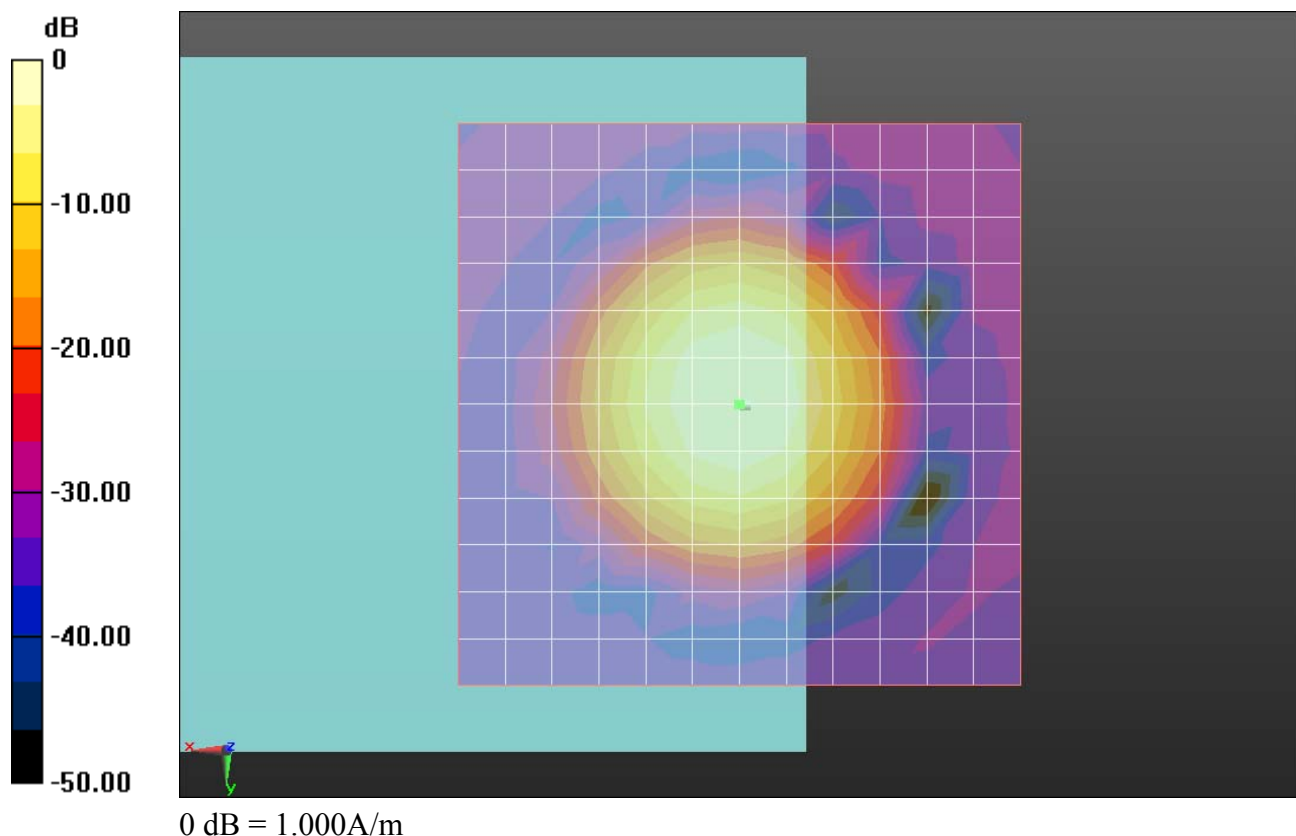
Ch661/z (axial) 4.2mm 50 x 50/ABM [HAC-2007] SNR(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm

ABM1/ABM2 = 39.48 dB

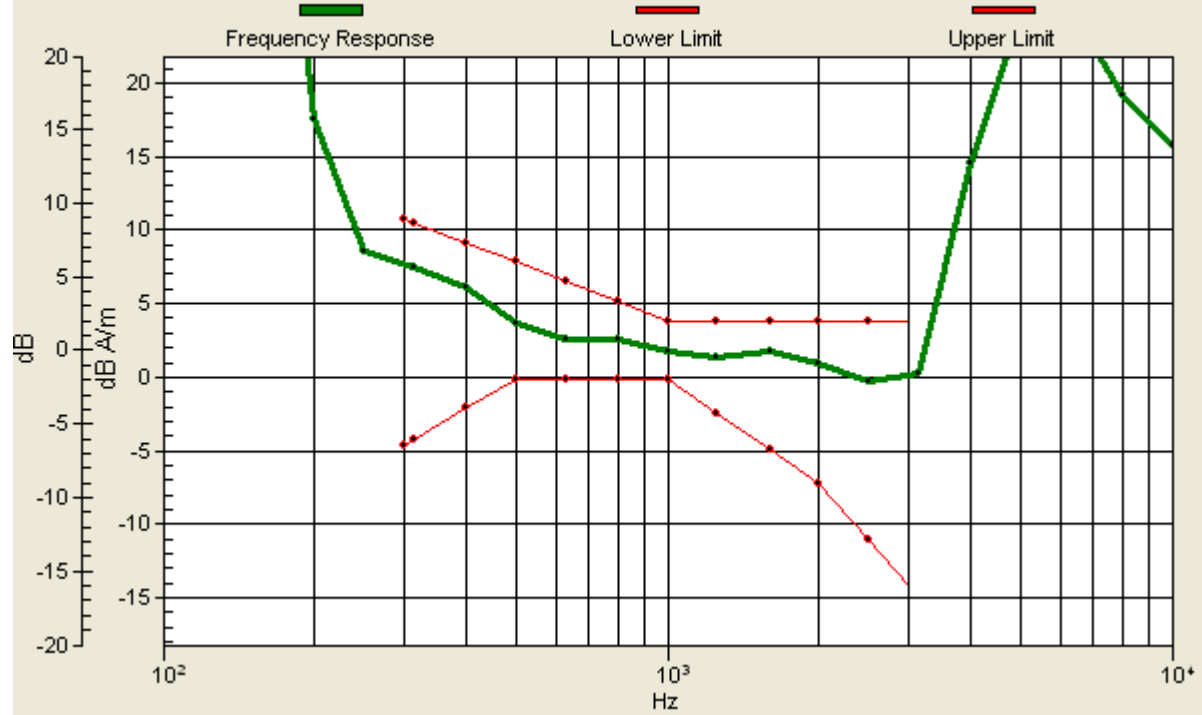
ABM1 comp = 1.50 dB A/m

Location: 0, 0, 3.7 mm



Ch661/z (axial) wideband at best S/N/ABM [HAC-2007] Freq Resp(x,y,z,f)

Loc: 0, 0, 3.7 mm Diff: 2dB



02 HAC T-Coil_GSM1900_GSM_Ch661(X)**DUT: 331403-03B**

Communication System: General GSM; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.2 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013-5-7
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013-6-19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.4.5 (3634)

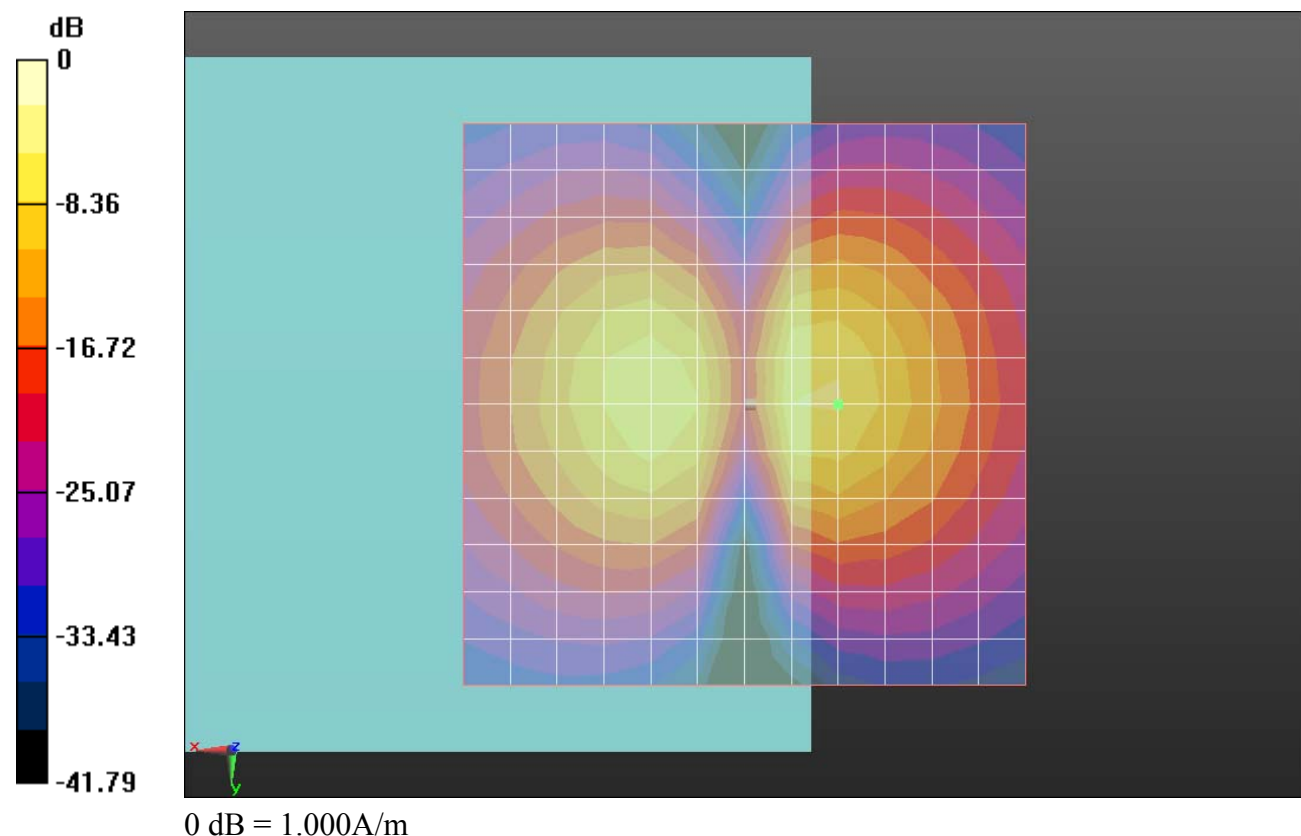
Ch661/x (longitudinal) 4.2mm 50 x 50/ABM [HAC-2007] SNR(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm

ABM1/ABM2 = 40.42 dB

ABM1 comp = -5.22 dB A/m

Location: -8.3, 0, 3.7 mm



02 HAC T-Coil_GSM1900_GSM_Ch661(Y)**DUT: 331403-03B**

Communication System: General GSM; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.2 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013-5-7
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013-6-19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.4.5 (3634)

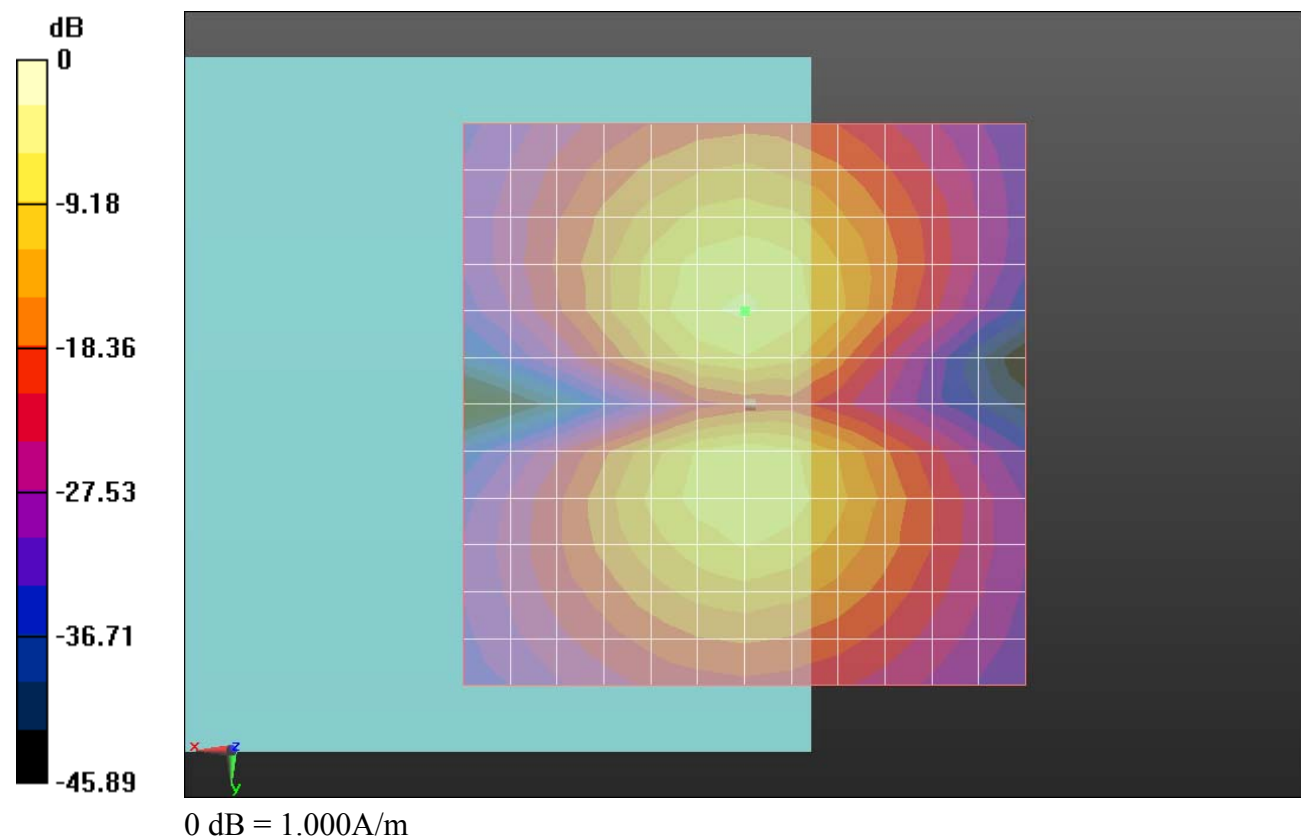
Ch661/y (transversal) 4.2mm 50 x 50/ABM [HAC-2007] SNR(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm

ABM1/ABM2 = 38.18 dB

ABM1 comp = -5.46 dB A/m

Location: 0, -8.3, 3.7 mm



03 HAC T-Coil_WCDMA Band V_RMC 12.2Kbps_Ch4182(Z)**DUT: 331403-03B**

Communication System: UMTS; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.2 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013-5-7
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013-6-19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.4.5 (3634)

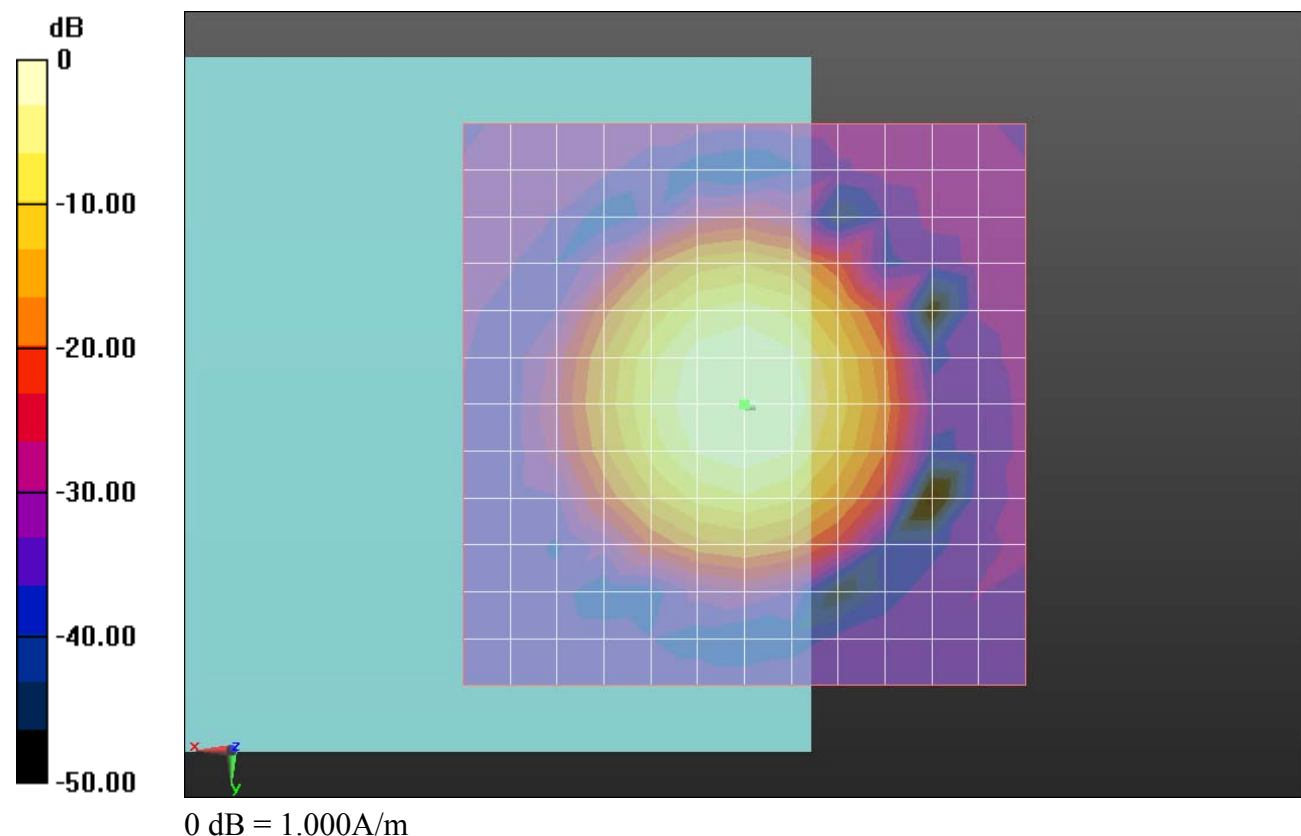
Ch4182/z (axial) 4.2mm 50 x 50/ABM [HAC-2007] SNR(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm

ABM1/ABM2 = 42.52 dB

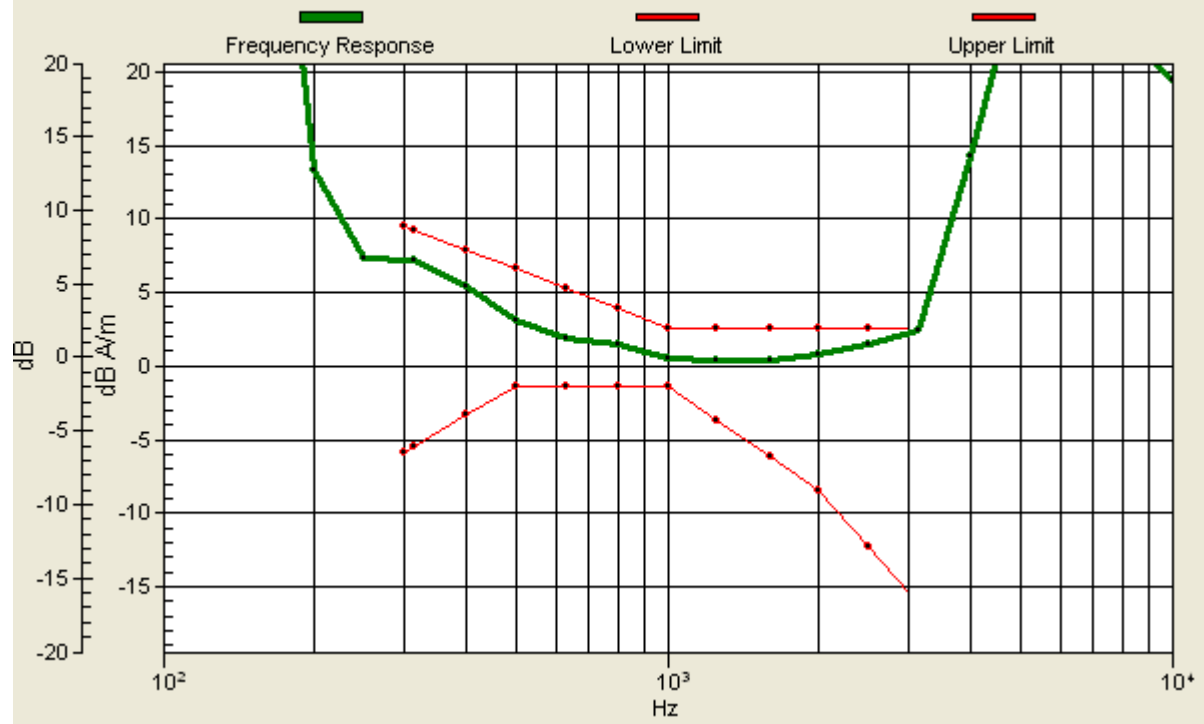
ABM1 comp = 1.74 dB A/m

Location: 0, 0, 3.7 mm



Ch4182/z (axial) wideband at best S/N/ABM [HAC-2007] Freq Resp(x,y,z,f)

Loc: 0, 0, 3.7 mm Diff: 0.41dB



03 HAC T-Coil_WCDMA Band V_RMC 12.2Kbps_Ch4182(X)**DUT: 331403-03B**

Communication System: UMTS; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.2 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013-5-7
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013-6-19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.4.5 (3634)

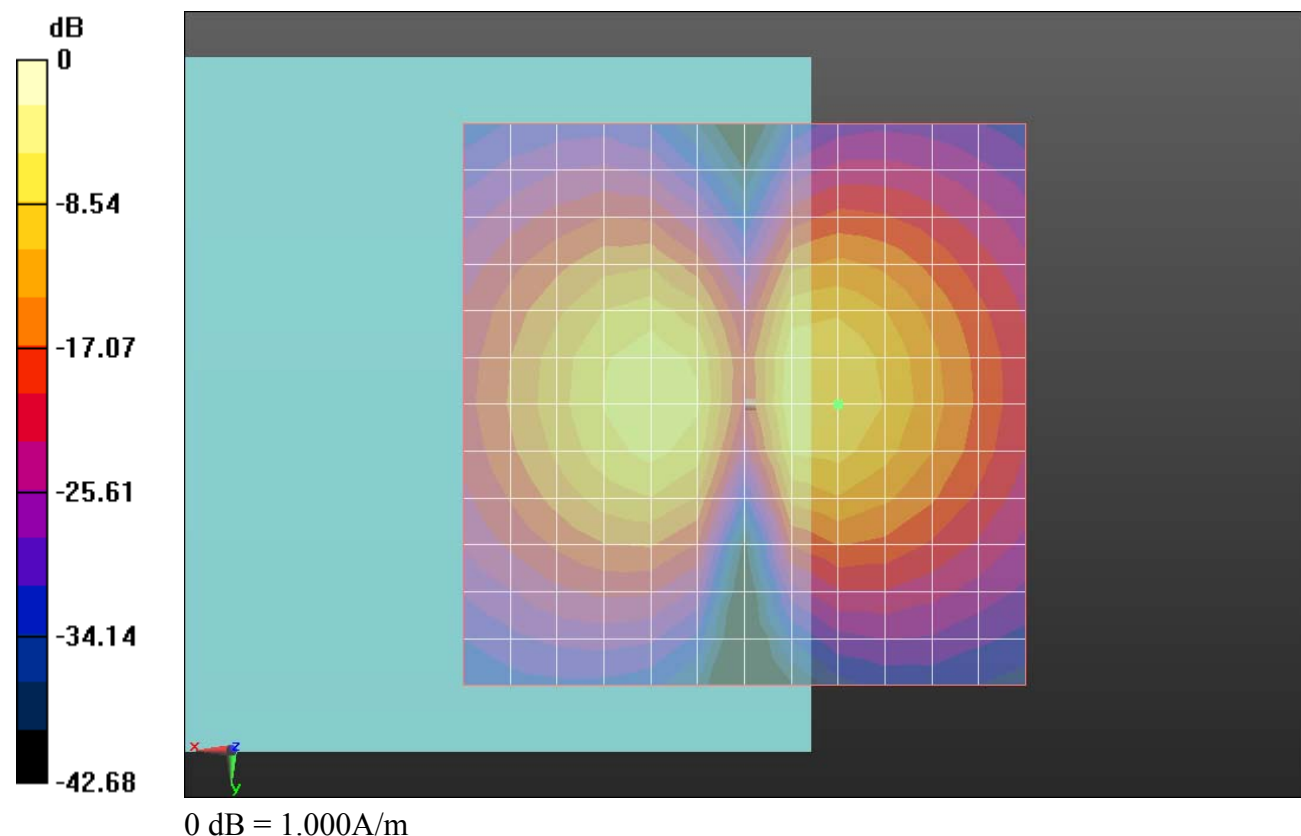
Ch4182/x (longitudinal) 4.2mm 50 x 50/ABM [HAC-2007] SNR(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm

ABM1/ABM2 = 43.95 dB

ABM1 comp = -5.63 dB A/m

Location: -8.3, 0, 3.7 mm



03 HAC T-Coil_WCDMA Band V_RMC 12.2Kbps_Ch4182(Y)**DUT: 331403-03B**

Communication System: UMTS; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.2 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013-5-7
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013-6-19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.4.5 (3634)

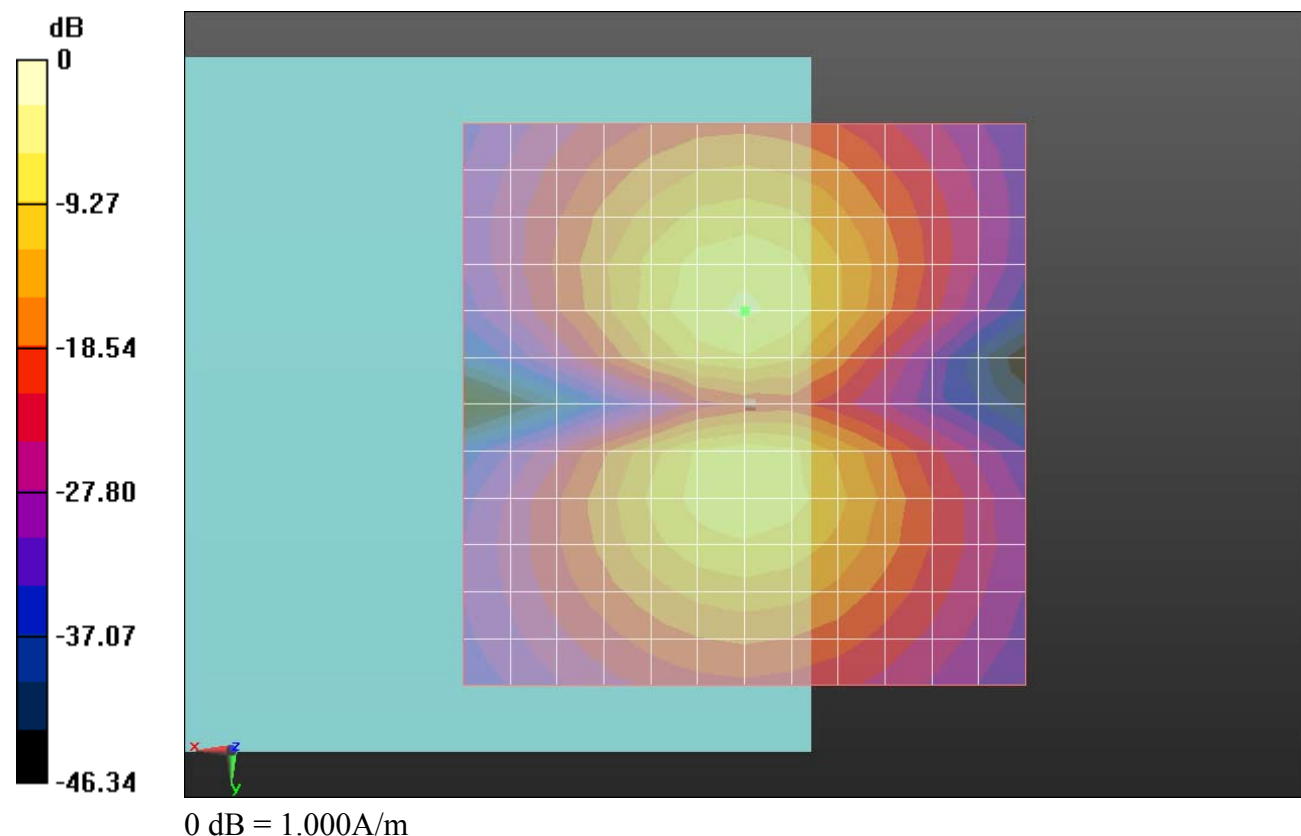
Ch4182/y (transversal) 4.2mm 50 x 50/ABM [HAC-2007] SNR(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm

ABM1/ABM2 = 36.85 dB

ABM1 comp = -5.45 dB A/m

Location: 0, -8.3, 3.7 mm



04 HAC T-Coil_WCDMA Band IV_RMC 12.2Kbps_Ch1413(Z)**DUT: 331403-03B**

Communication System: UMTS; Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.2 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013-5-7
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013-6-19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.4.5 (3634)

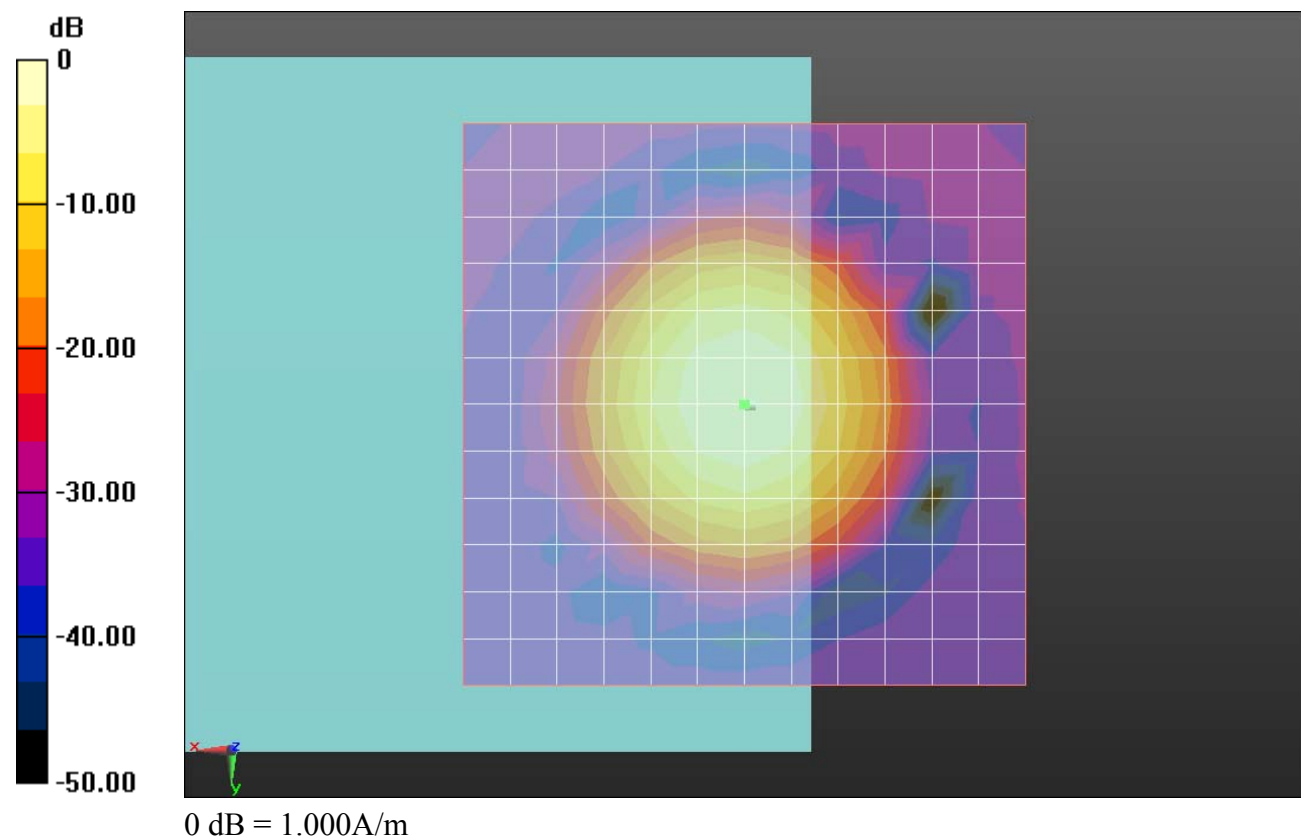
Ch1413/z (axial) 4.2mm 50 x 50/ABM [HAC-2007] SNR(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm

ABM1/ABM2 = 42.74 dB

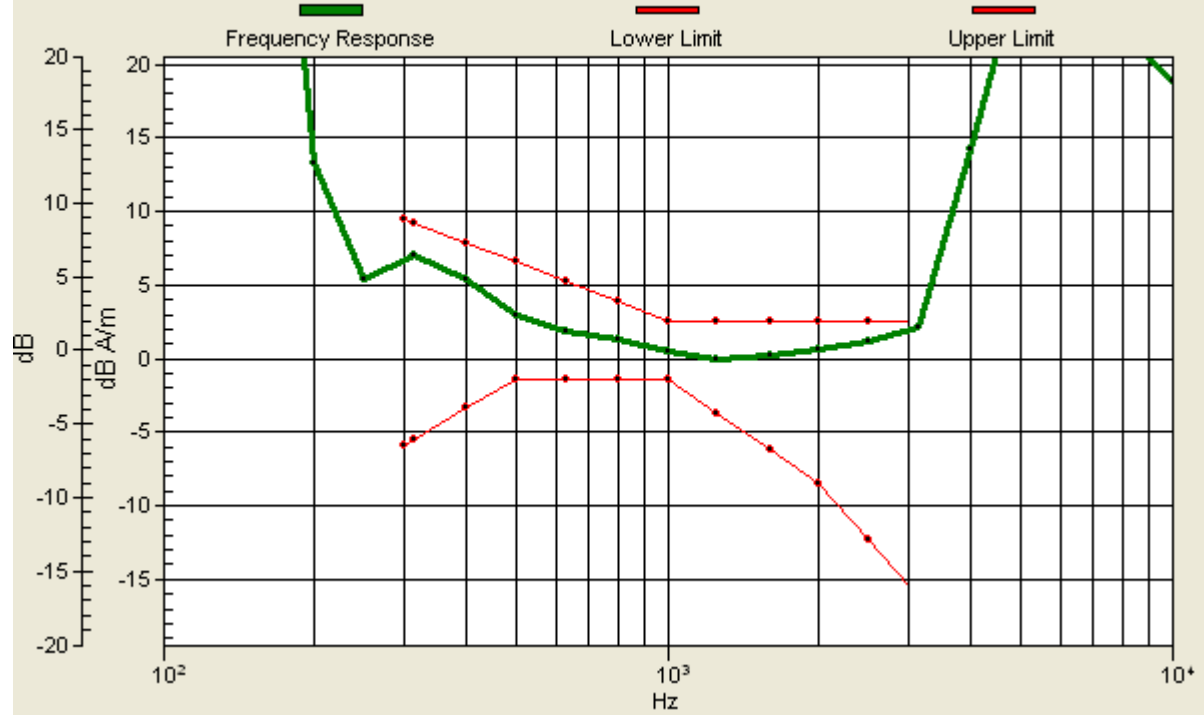
ABM1 comp = 1.24 dB A/m

Location: 0, 0, 3.7 mm



Ch1413/z (axial) wideband at best S/N/ABM [HAC-2007] Freq Resp(x,y,z,f)

Loc: 0, 0, 3.7 mm Diff: 0.6dB



04 HAC T-Coil_WCDMA Band IV_RMC 12.2Kbps_Ch1413(X)**DUT: 331403-03B**

Communication System: UMTS; Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.2 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013-5-7
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013-6-19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.4.5 (3634)

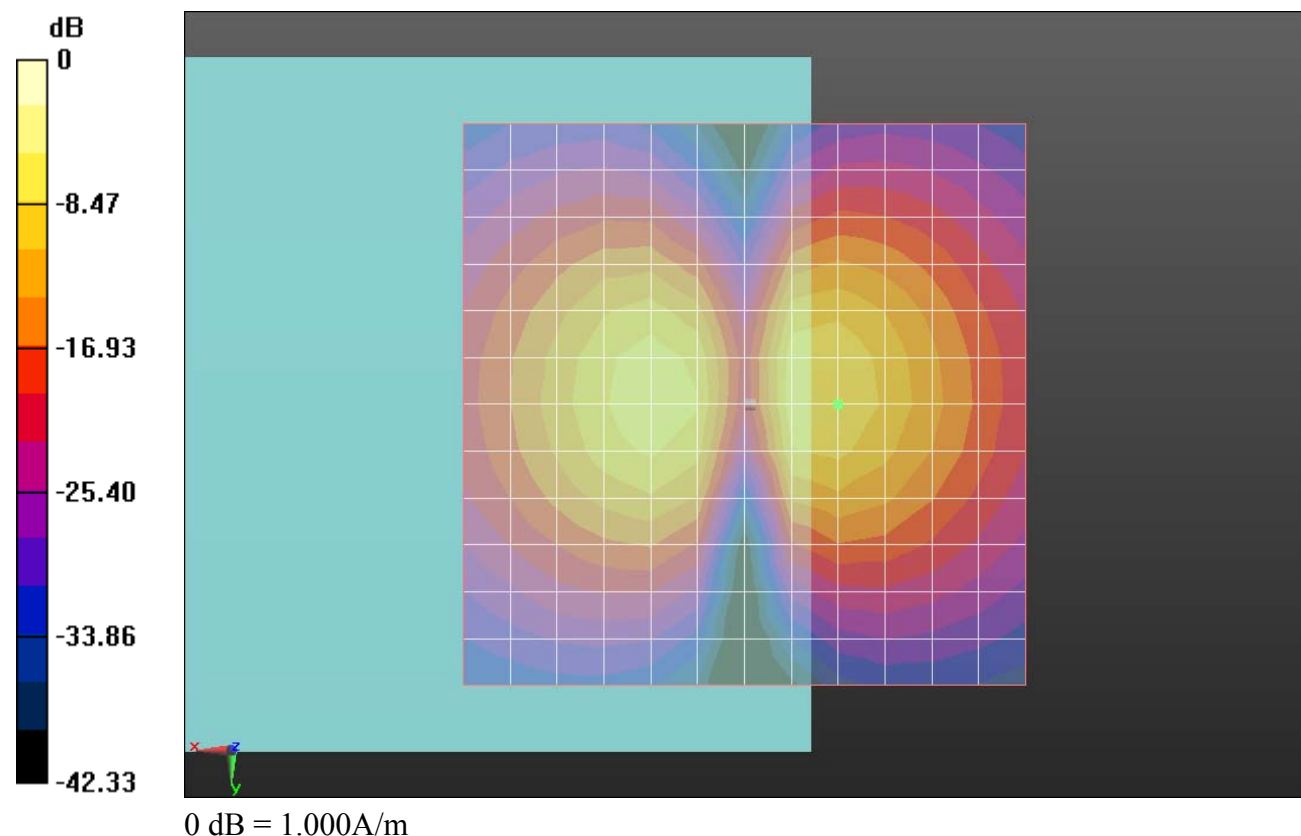
Ch1413/x (longitudinal) 4.2mm 50 x 50/ABM [HAC-2007] SNR(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm

ABM1/ABM2 = 43.84 dB

ABM1 comp = -5.76 dB A/m

Location: -8.3, 0, 3.7 mm



04 HAC T-Coil_WCDMA Band IV_RMC 12.2Kbps_Ch1413(Y)**DUT: 331403-03B**

Communication System: UMTS; Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.2 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013-5-7
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013-6-19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.4.5 (3634)

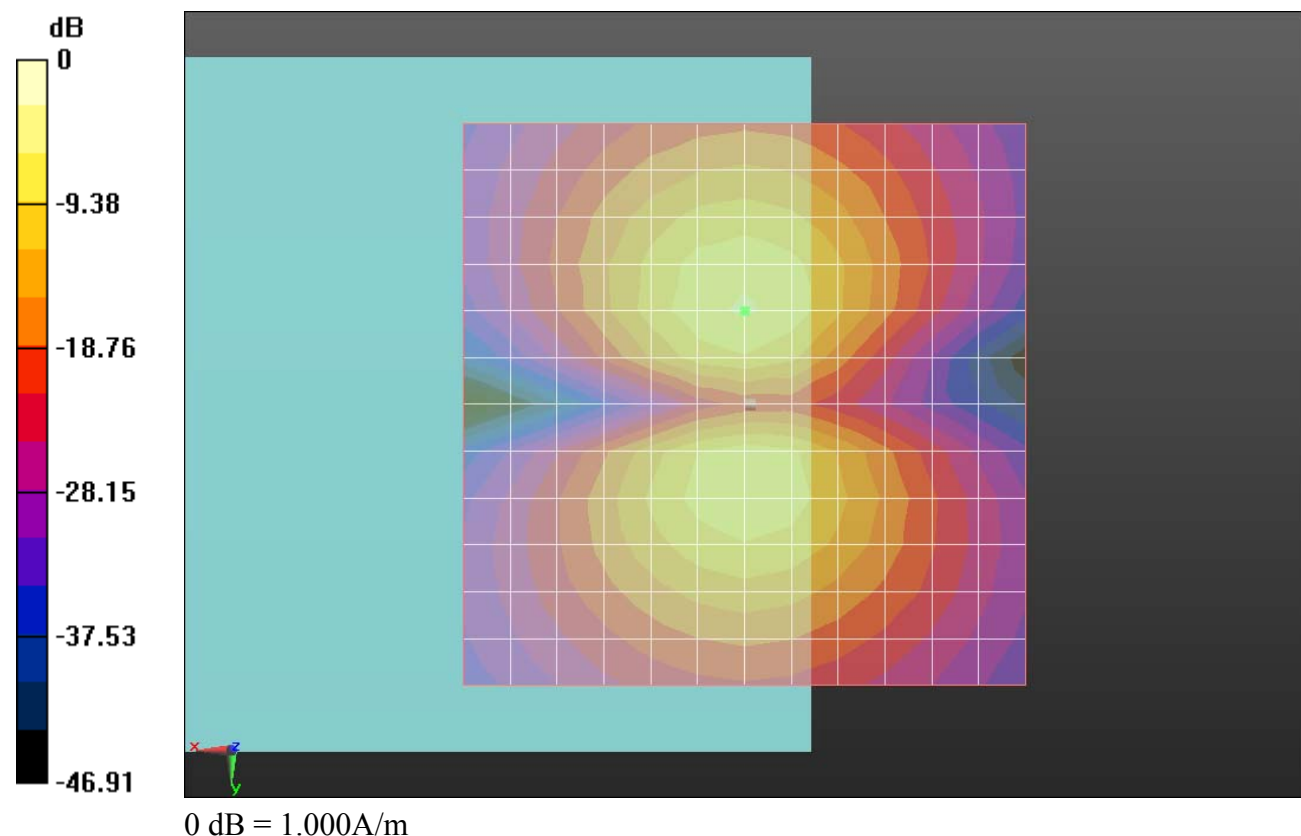
Ch1413/y (transversal) 4.2mm 50 x 50/ABM [HAC-2007] SNR(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm

ABM1/ABM2 = 36.47 dB

ABM1 comp = -5.69 dB A/m

Location: 0, -8.3, 3.7 mm



05 HAC T-Coil_WCDMA Band II_RMC 12.2Kbps_Ch9400(Z)**DUT: 331403-03B**

Communication System: UMTS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.2 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013-5-7
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013-6-19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.4.5 (3634)

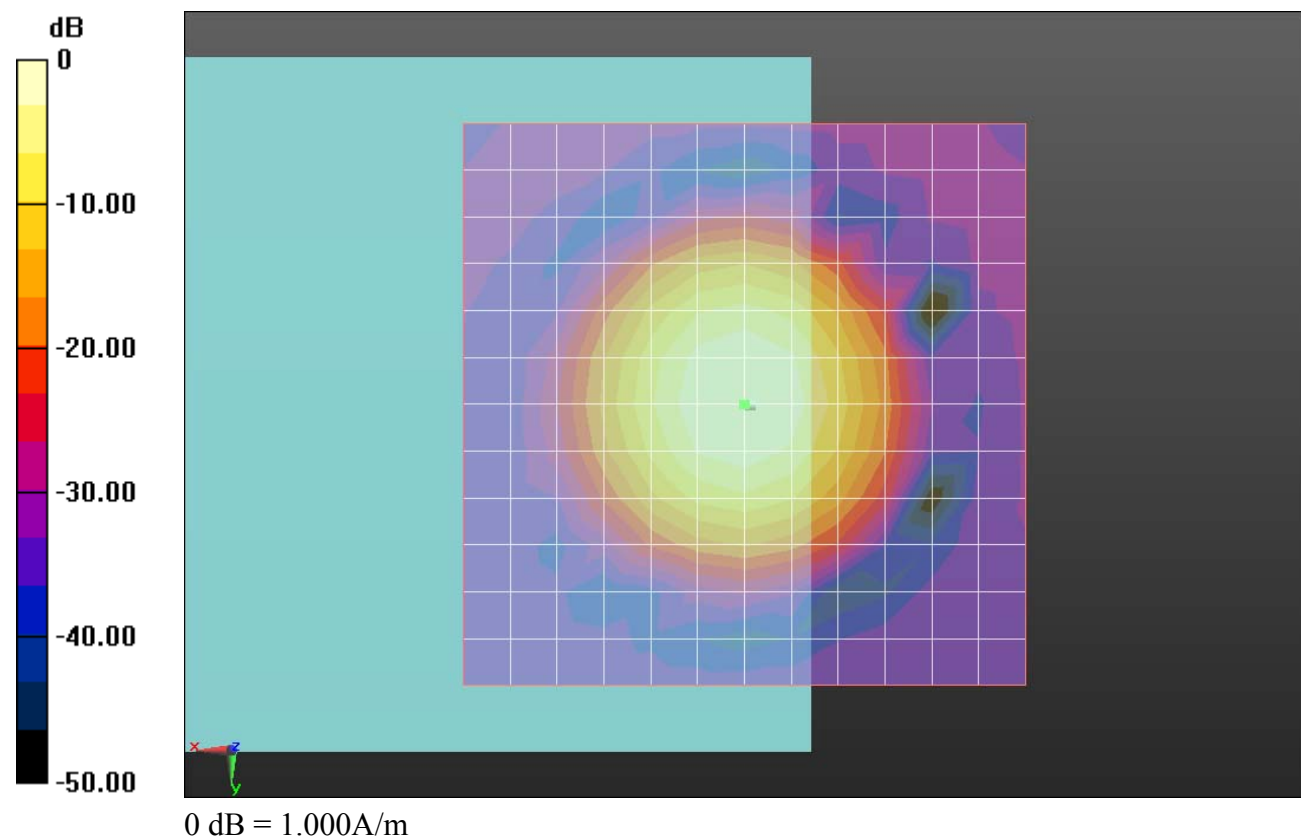
Ch9400/z (axial) 4.2mm 50 x 50/ABM [HAC-2007] SNR(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm

ABM1/ABM2 = 42.68 dB

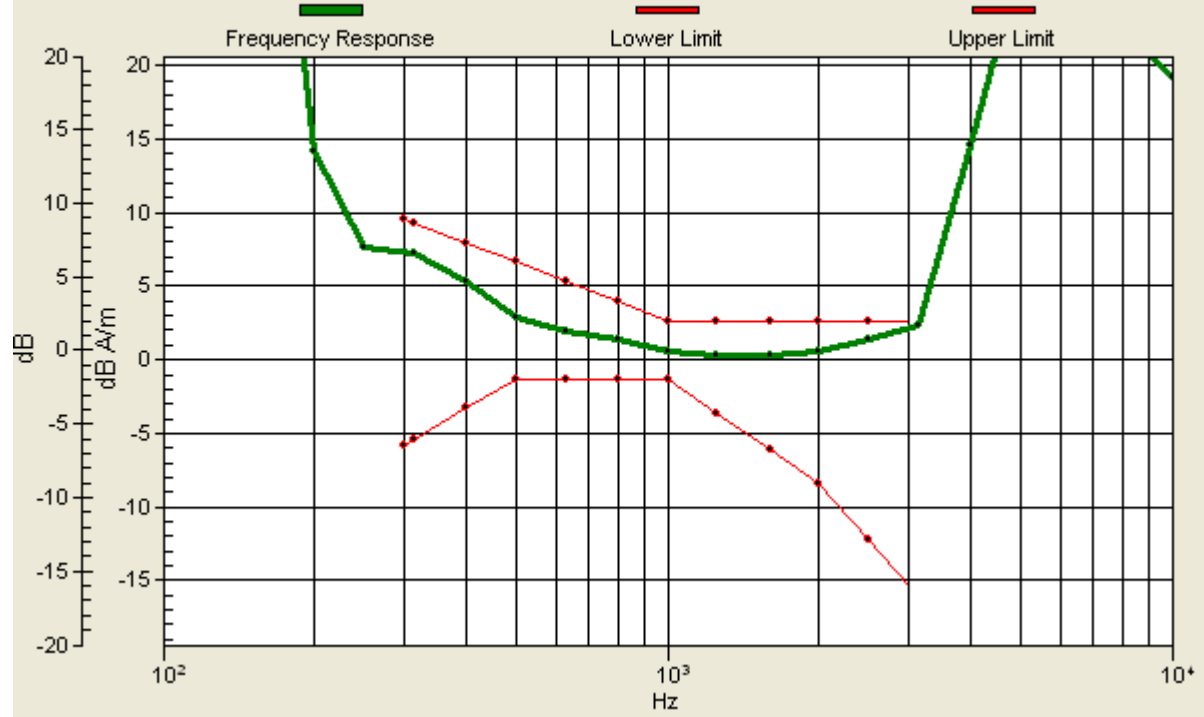
ABM1 comp = 1.36 dB A/m

Location: 0, 0, 3.7 mm



Ch9400/z (axial) wideband at best S/N/ABM [HAC-2007] Freq Resp(x,y,z,f)

Loc: 0, 0, 3.7 mm Diff: 0.51dB



05 HAC T-Coil_WCDMA Band II_RMC 12.2Kbps_Ch9400(X)**DUT: 331403-03B**

Communication System: UMTS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.2 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013-5-7
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013-6-19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.4.5 (3634)

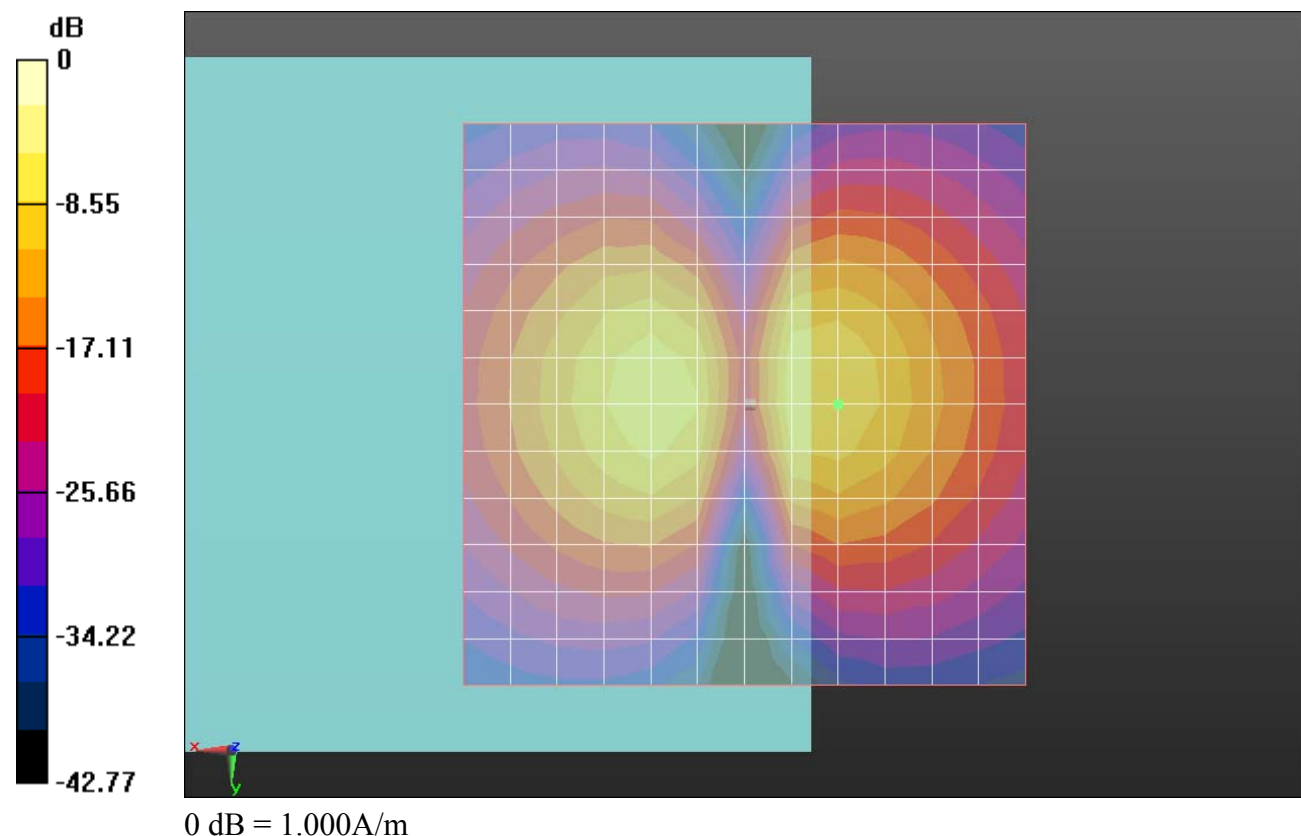
Ch9400/x (longitudinal) 4.2mm 50 x 50/ABM [HAC-2007] SNR(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm

ABM1/ABM2 = 43.99 dB

ABM1 comp = -5.64 dB A/m

Location: -8.3, 0, 3.7 mm



05 HAC T-Coil_WCDMA Band II_RMC 12.2Kbps_Ch9400(Y)**DUT: 331403-03B**

Communication System: UMTS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.2 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013-5-7
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013-6-19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.4.5 (3634)

Ch9400/y (transversal) 4.2mm 50 x 50/ABM [HAC-2007] SNR(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm

ABM1/ABM2 = 36.29 dB

ABM1 comp = -5.84 dB A/m

Location: 0, -8.3, 3.7 mm

