

**#01 HAC T-Coil\_GSM850\_Ch128(Z)**

**DUT: 211214**

Communication System: General GSM; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

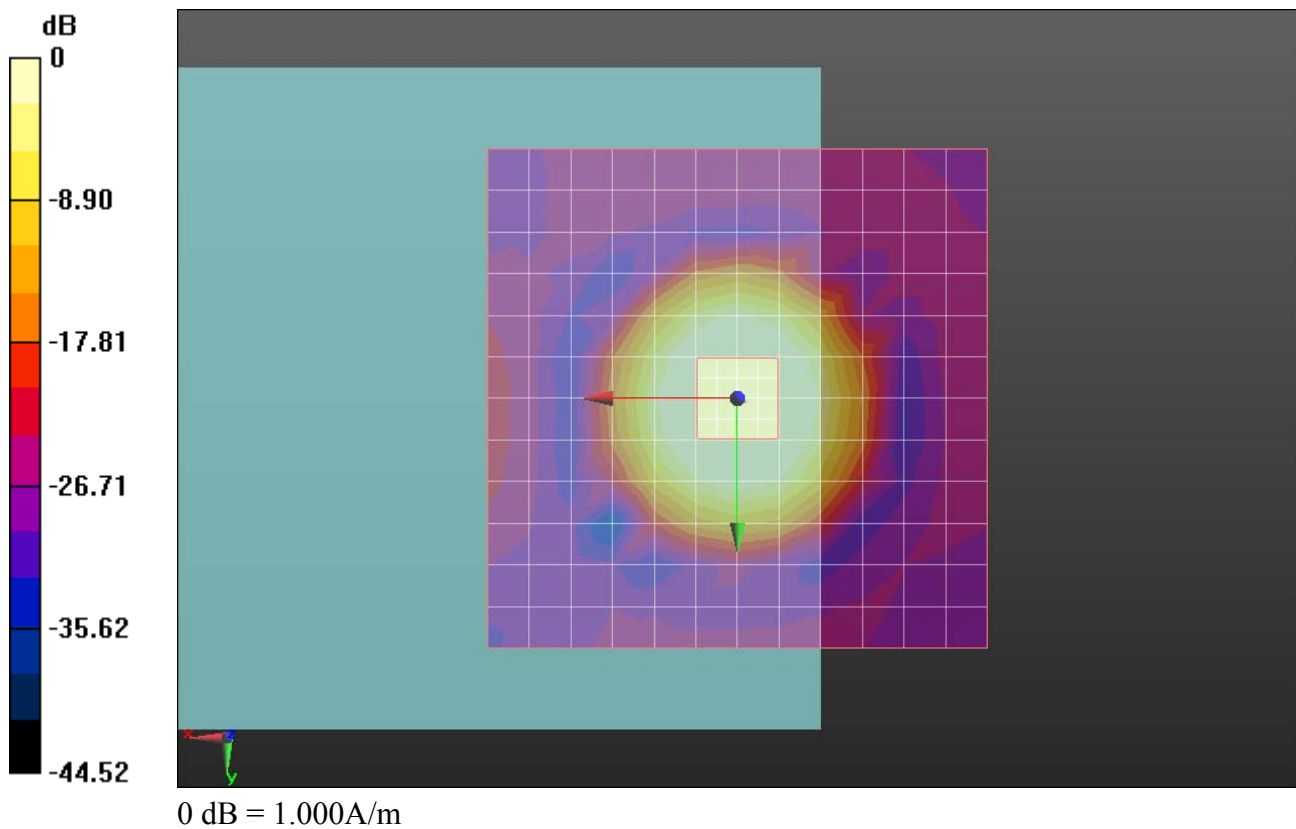
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch128/z (axial) fine 2mm 8 x 8/ABM [HAC-2007] SNR(x,y,z) (5x5x1):**

ABM1/ABM2 = 32.50 dB

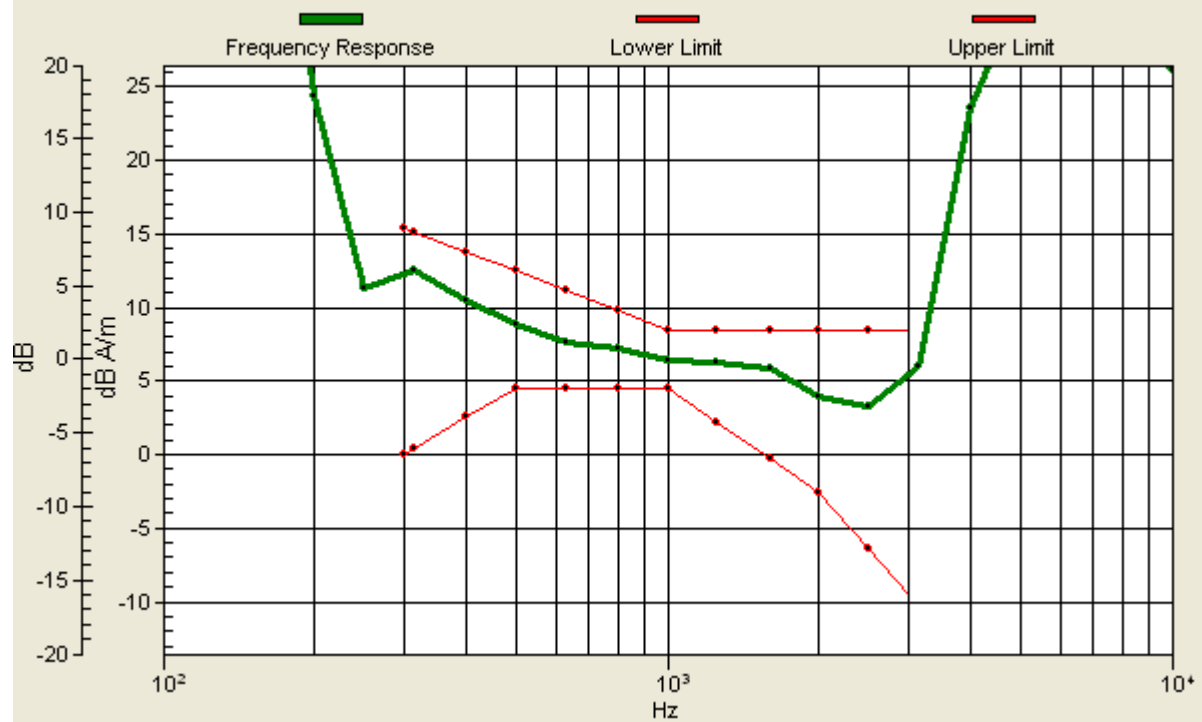
ABM1 comp = 7.63 dB A/m

Location: 0, 0, 3.7 mm



# Ch128/z (axial) wideband at best S/N/ABM [HAC-2007] Freq Resp(x,y,z,f)

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



**#01 HAC T-Coil\_GSM850\_Ch128(X)**

**DUT: 211214**

Communication System: General GSM; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

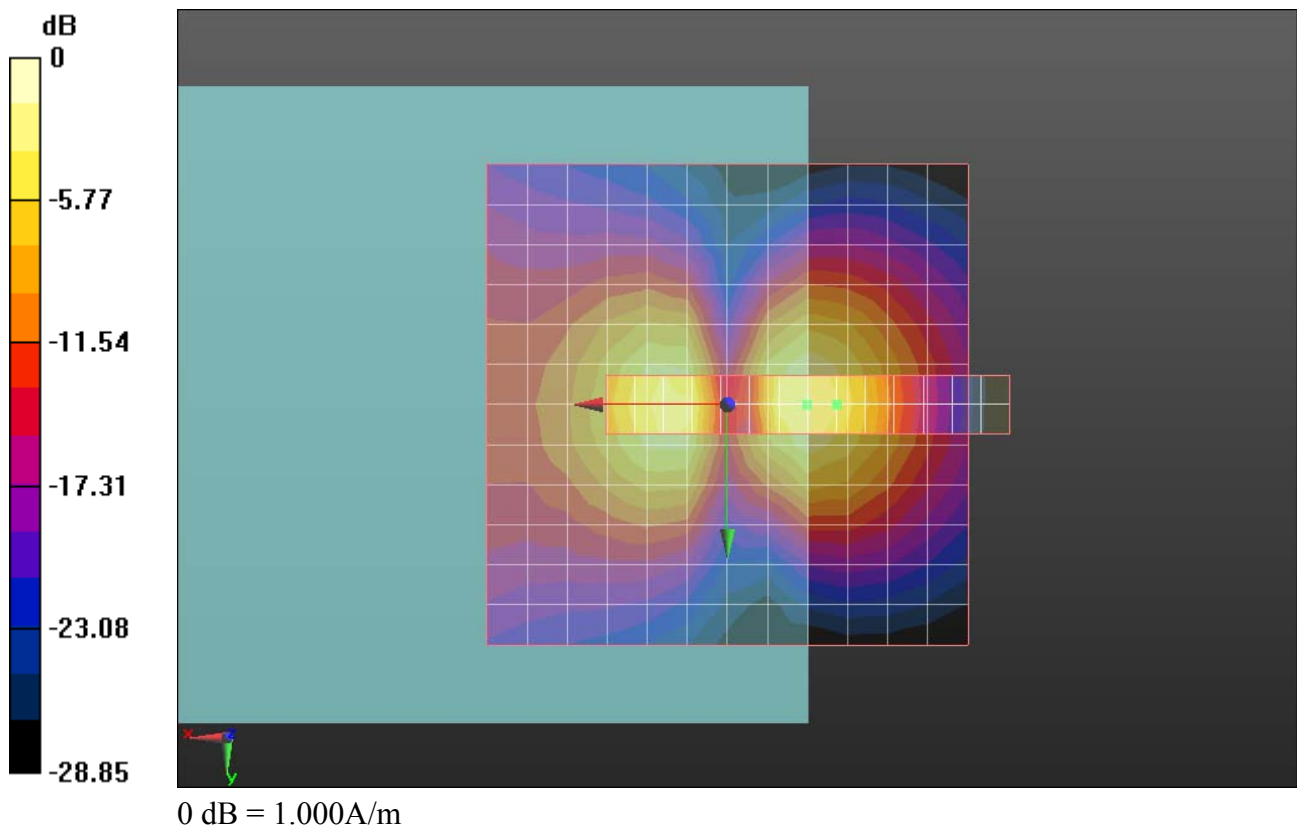
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch128/x (longitudinal) fine 3mm 42 x 6/ABM [HAC-2007] SNR(x,y,z) (15x3x1):**

ABM1/ABM2 = 20.19 dB

ABM1 comp = -2.42 dB A/m

Location: -11.3, 0, 3.7 mm



**#01 HAC T-Coil\_GSM850\_Ch128(Y)**

**DUT: 211214**

Communication System: General GSM; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

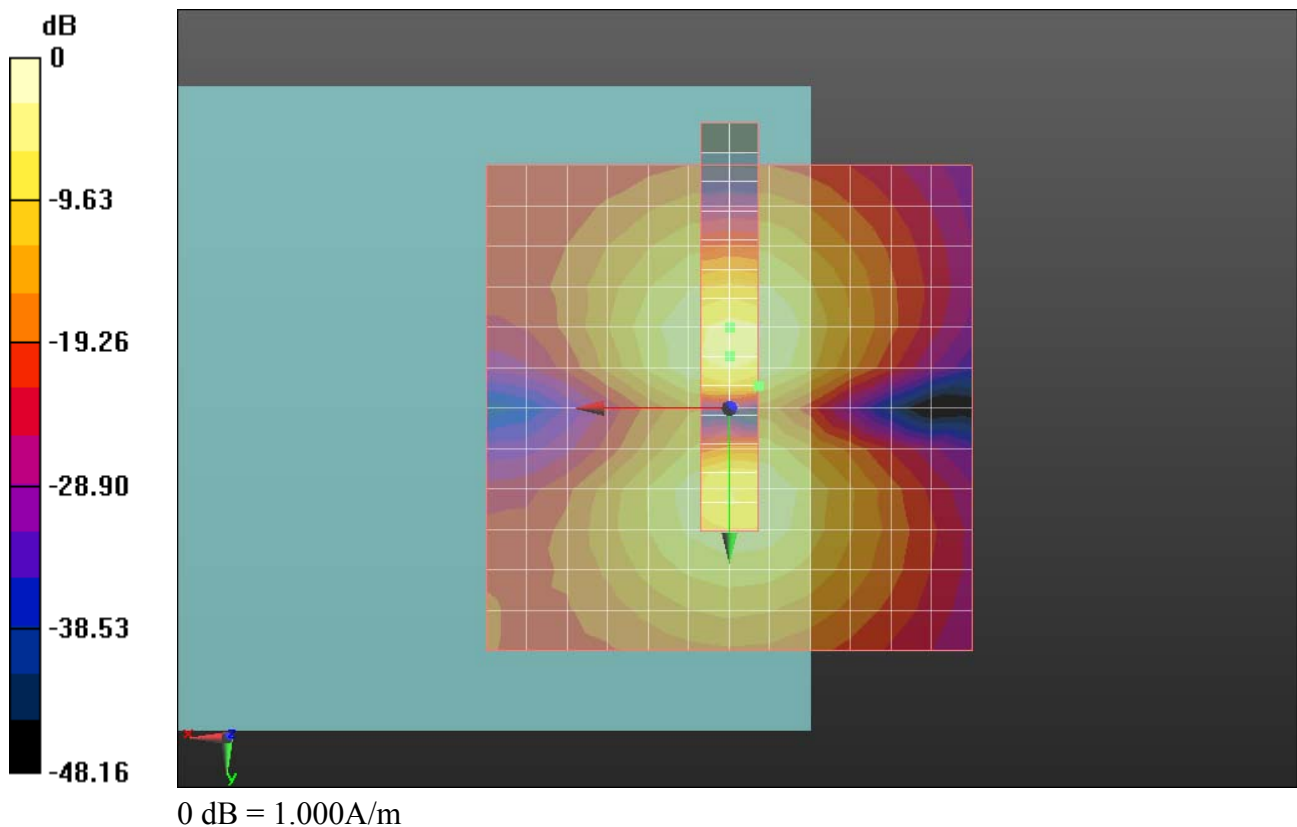
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch128/y (transversal) fine 3mm 6 x 42/ABM [HAC-2007] SNR(x,y,z) (3x15x1):**

ABM1/ABM2 = 37.65 dB

ABM1 comp = -5.31 dB A/m

Location: -3, -2.3, 3.7 mm



**#02 HAC T-Coil\_GSM850\_Ch189(Z)**

**DUT: 211214**

Communication System: General GSM; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

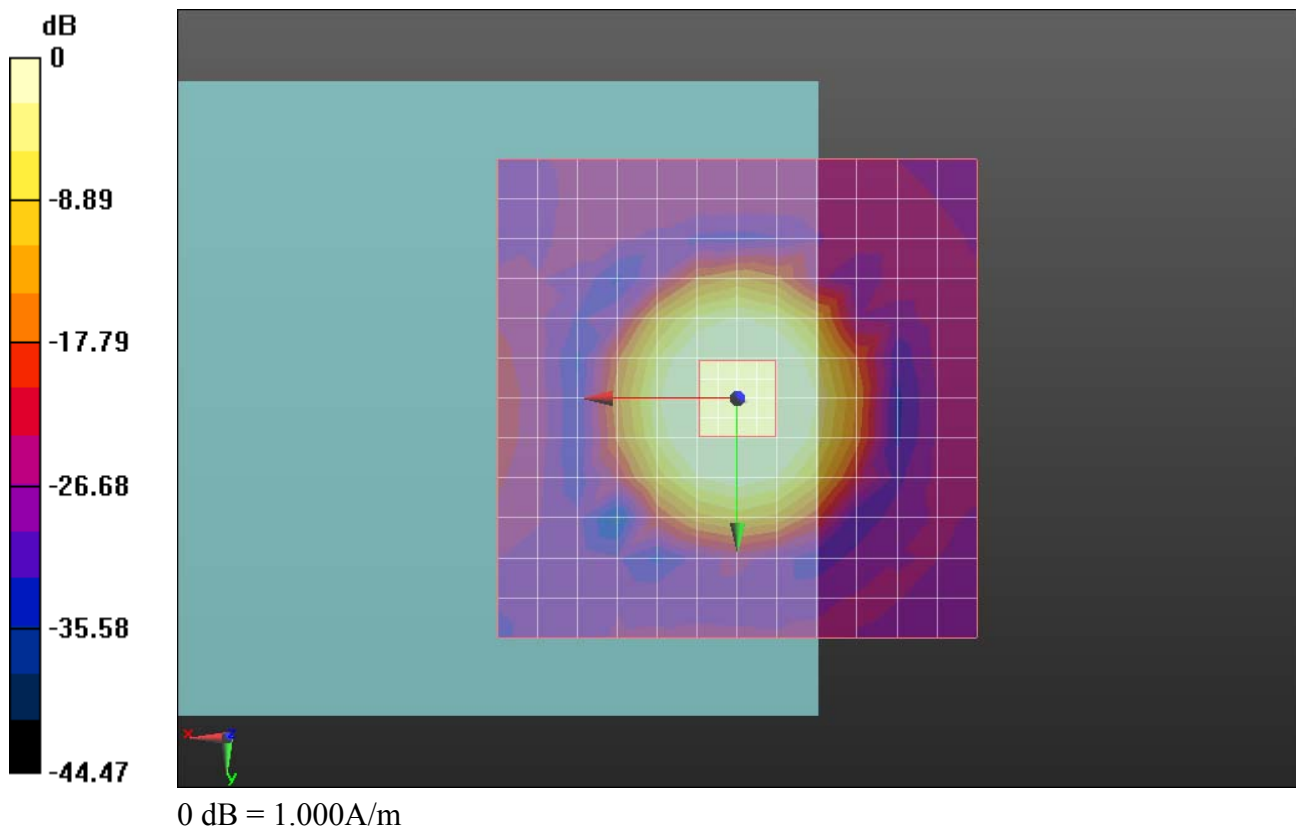
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch189/z (axial) fine 2mm 8 x 8/ABM [HAC-2007] SNR(x,y,z) (5x5x1):**

ABM1/ABM2 = 32.89 dB

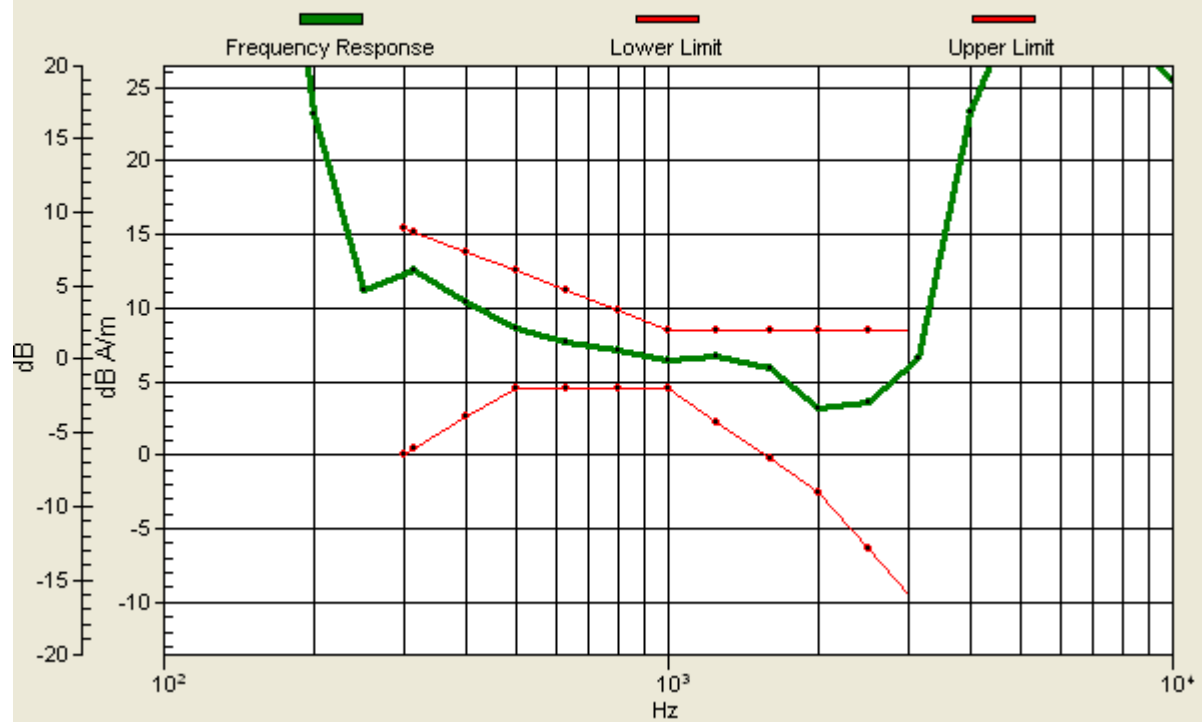
ABM1 comp = 7.37 dB A/m

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: 1.81dB



**#02 HAC T-Coil\_GSM850\_Ch189(X)**

**DUT: 211214**

Communication System: General GSM; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

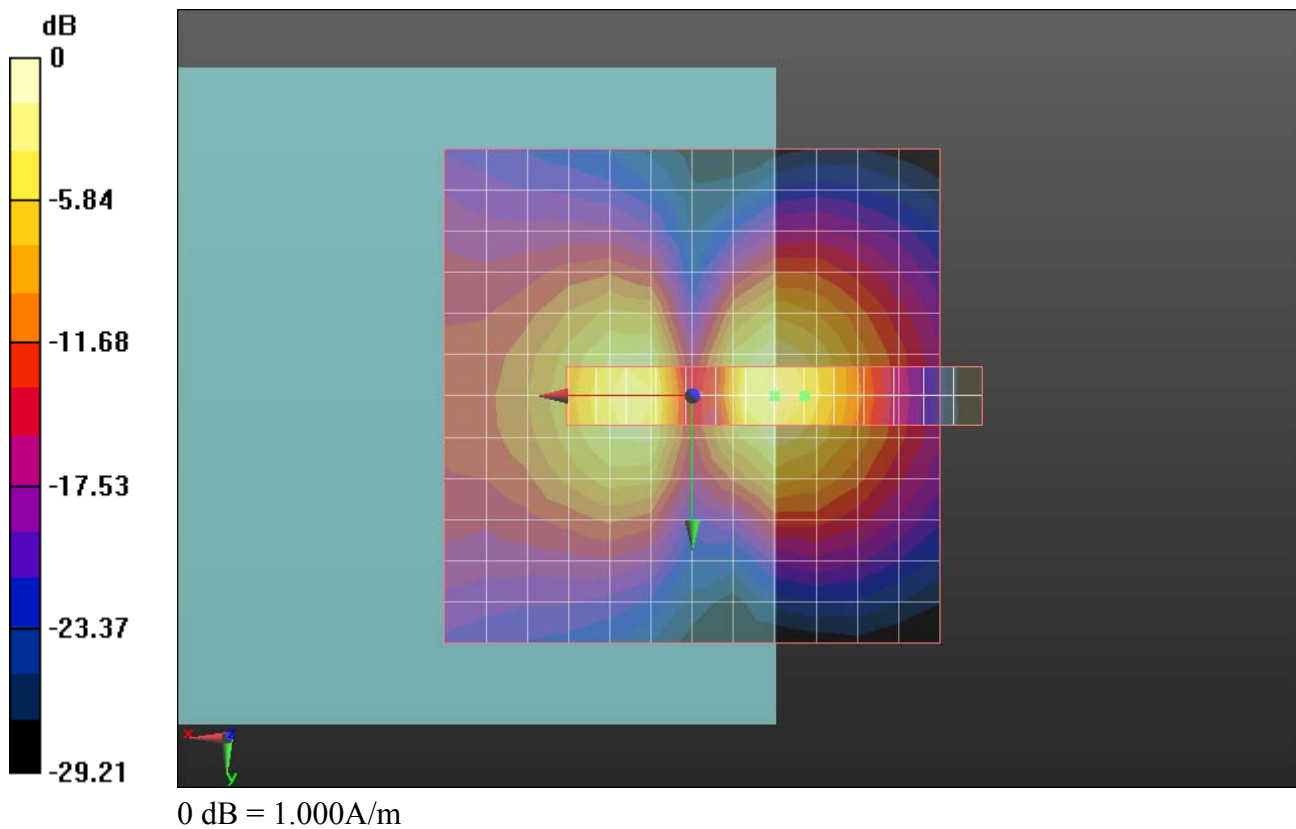
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch189/x (longitudinal) fine 3mm 42 x 6/ABM [HAC-2007] SNR(x,y,z) (15x3x1):**

ABM1/ABM2 = 20.58 dB

ABM1 comp = -2.53 dB A/m

Location: -11.3, 0, 3.7 mm



**#02 HAC T-Coil\_GSM850\_Ch189(Y)**

**DUT: 211214**

Communication System: General GSM; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

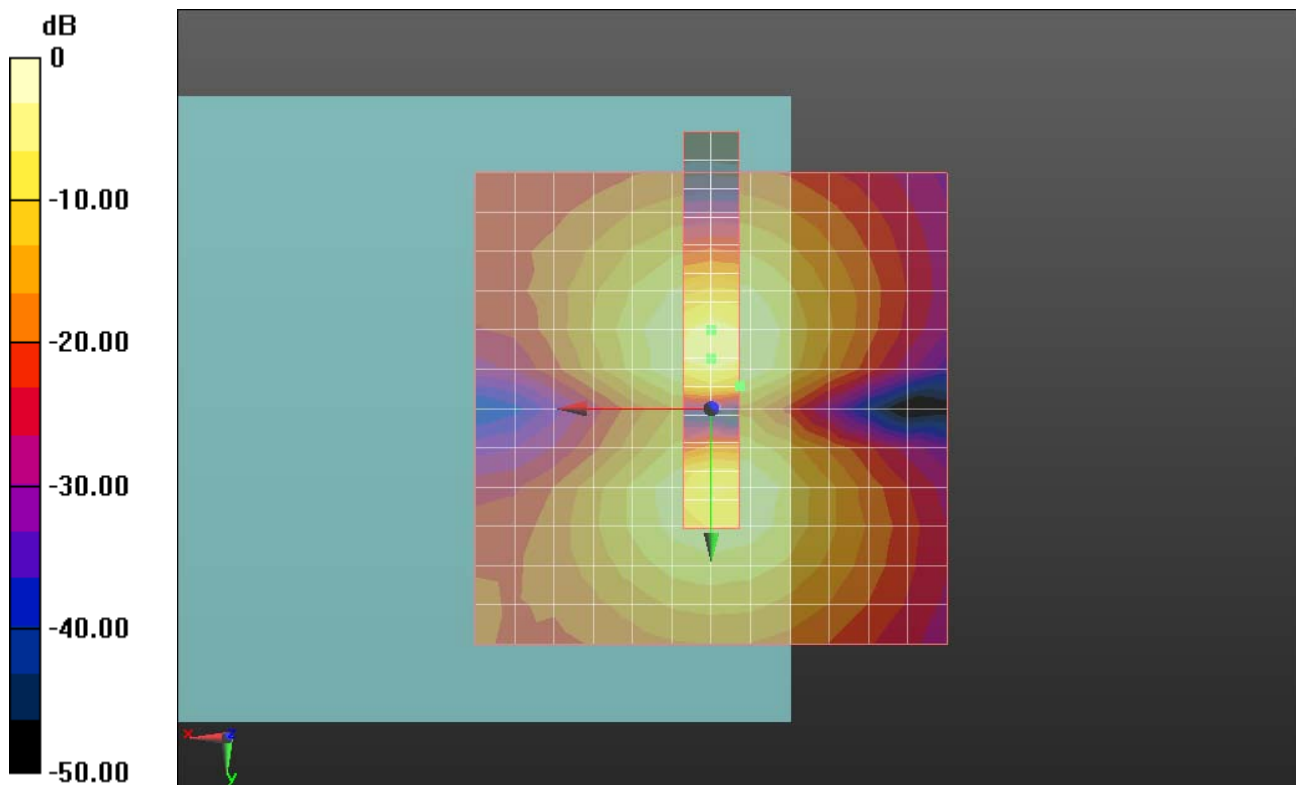
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch189/y (transversal) fine 3mm 6 x 42/ABM [HAC-2007] SNR(x,y,z) (3x15x1):**

ABM1/ABM2 = 37.72 dB

ABM1 comp = -5.54 dB A/m

Location: -3, -2.3, 3.7 mm



0 dB = 1.000A/m

**#03 HAC T-Coil\_GSM850\_Ch251(Z)**

**DUT: 211214**

Communication System: General GSM; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

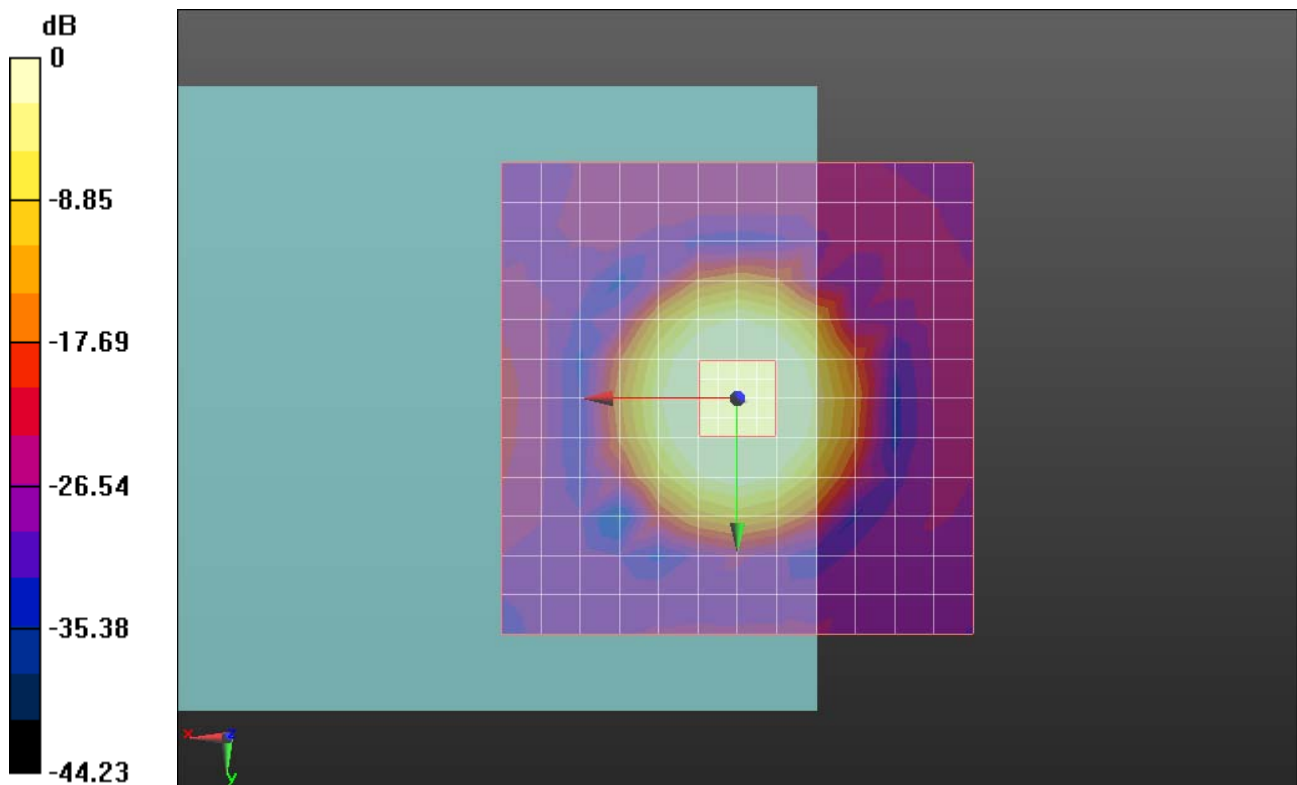
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch251/z (axial) fine 2mm 8 x 8/ABM [HAC-2007] SNR(x,y,z) (5x5x1):**

ABM1/ABM2 = 33.24 dB

ABM1 comp = 7.54 dB A/m

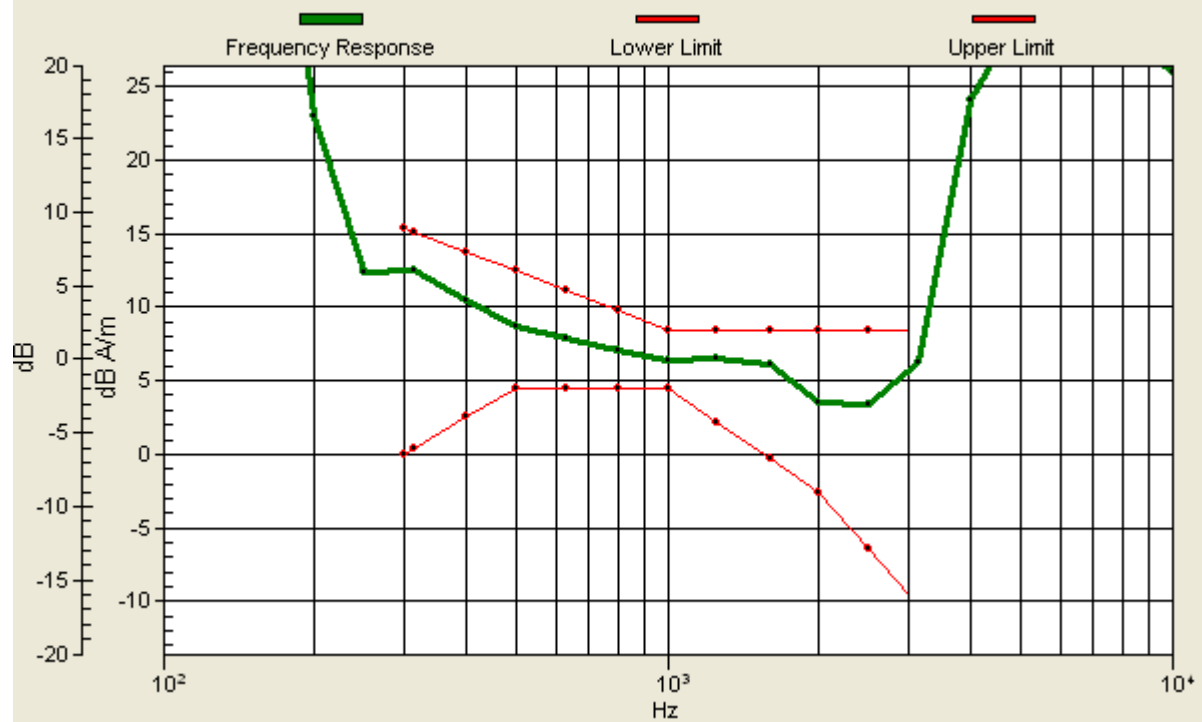
Location: 0, 0, 3.7 mm



0 dB = 1.000A/m

# Ch251/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



### #03 HAC T-Coil\_GSM850\_Ch251(X)

**DUT: 211214**

Communication System: General GSM; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

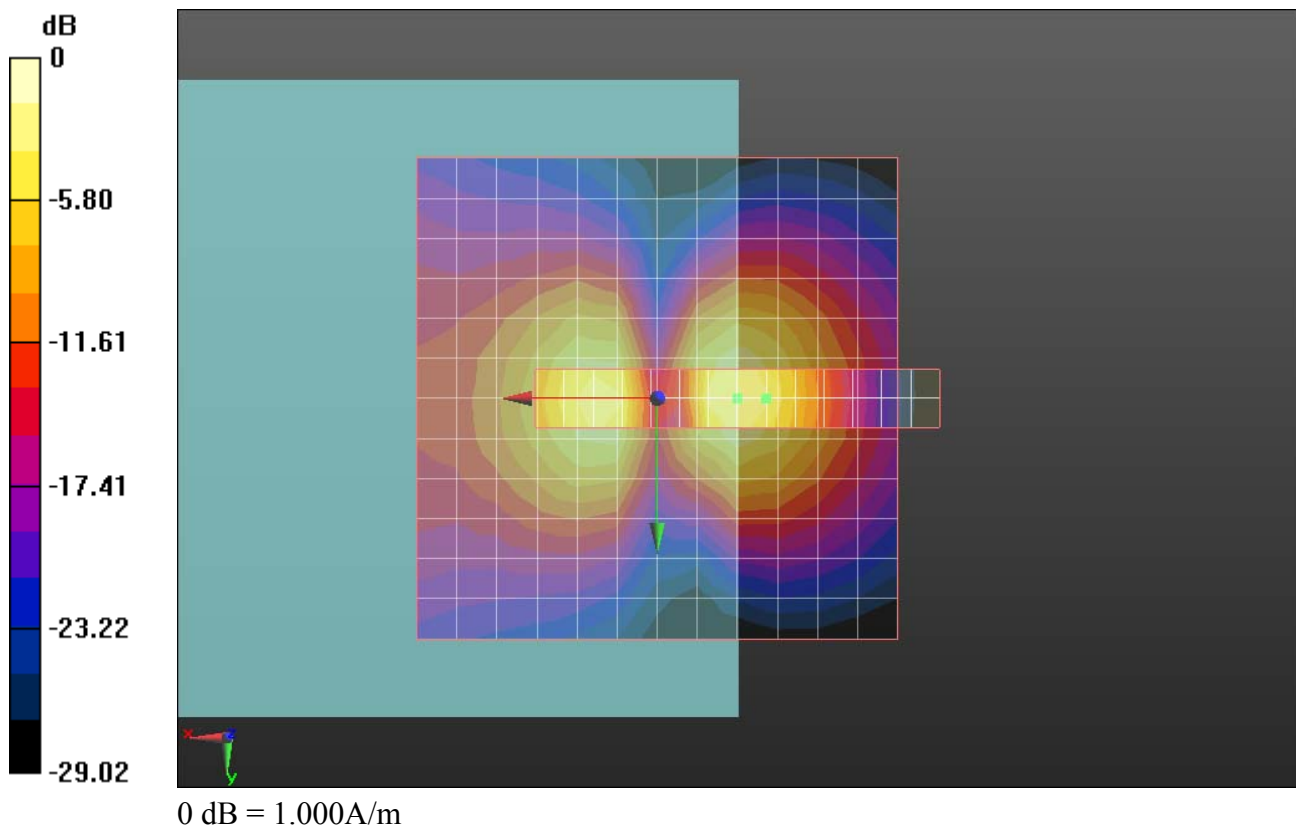
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

### Ch251/x (longitudinal) fine 3mm 42 x 6/ABM [HAC-2007] SNR(x,y,z) (15x3x1):

ABM1/ABM2 = 20.93 dB

ABM1 comp = -2.40 dB A/m

Location: -11.3, 0, 3.7 mm



**#03 HAC T-Coil\_GSM850\_Ch251(Y)**

**DUT: 211214**

Communication System: General GSM; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

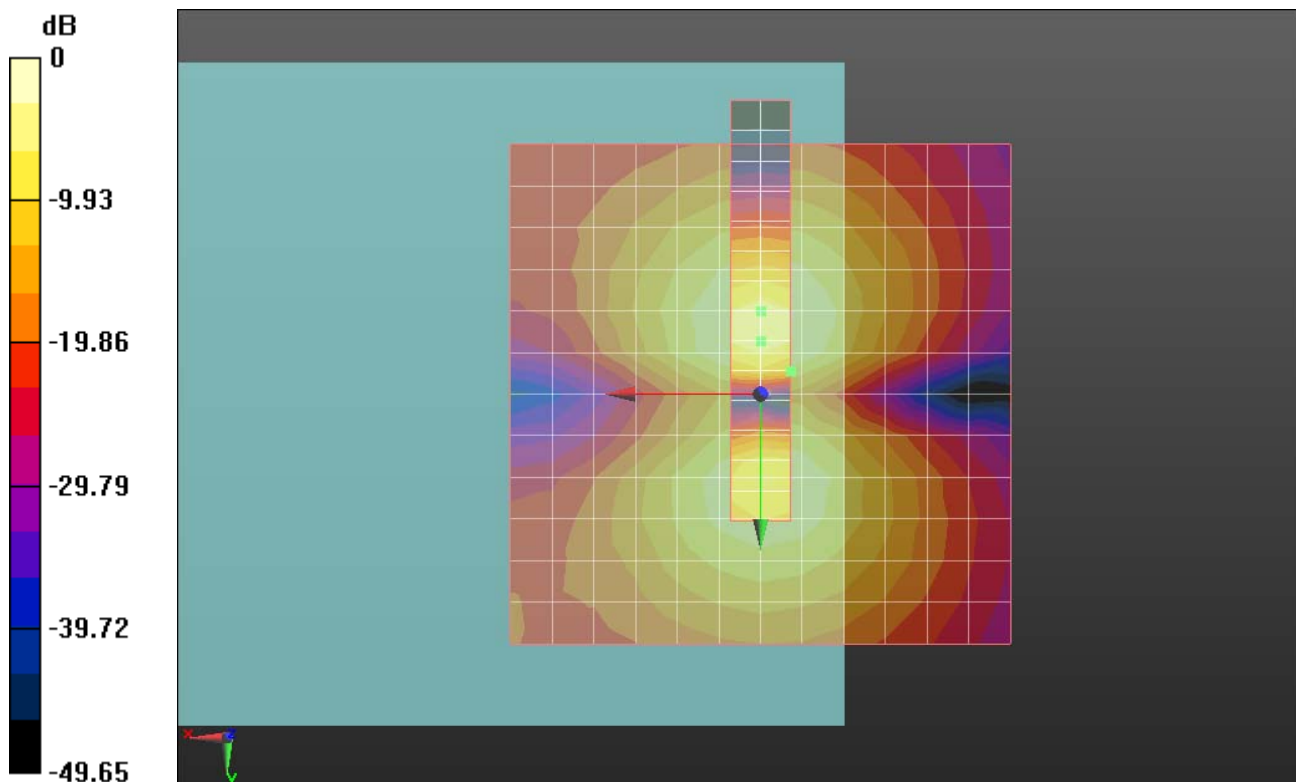
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch251/y (transversal) fine 3mm 6 x 42/ABM [HAC-2007] SNR(x,y,z) (3x15x1):**

ABM1/ABM2 = 37.89 dB

ABM1 comp = -5.72 dB A/m

Location: -3, -2.3, 3.7 mm



0 dB = 1.000A/m

**#04 HAC T-Coil\_GSM1900\_Ch512(Z)**

**DUT: 211214**

Communication System: General GSM; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

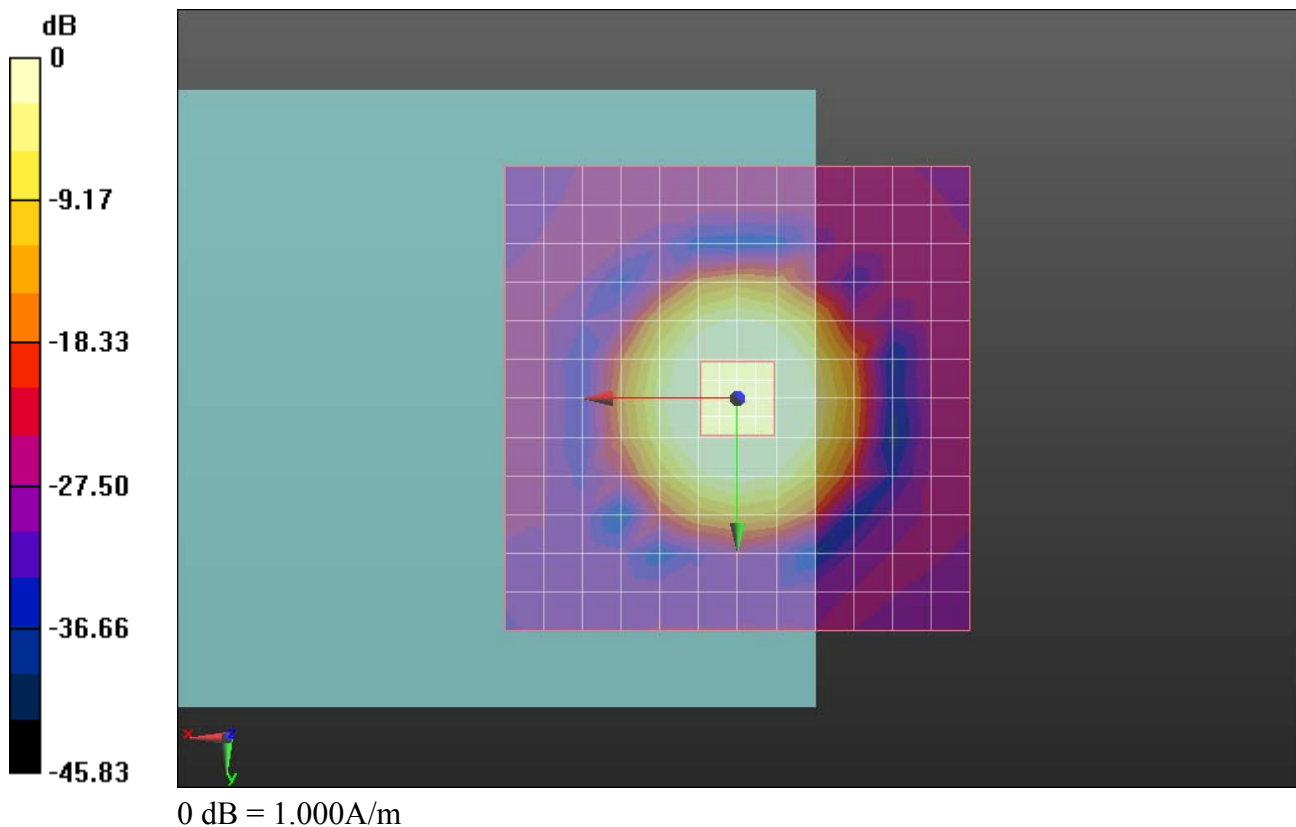
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch512/z (axial) fine 2mm 8 x 8/ABM [HAC-2007] SNR(x,y,z) (5x5x1):**

ABM1/ABM2 = 38.88 dB

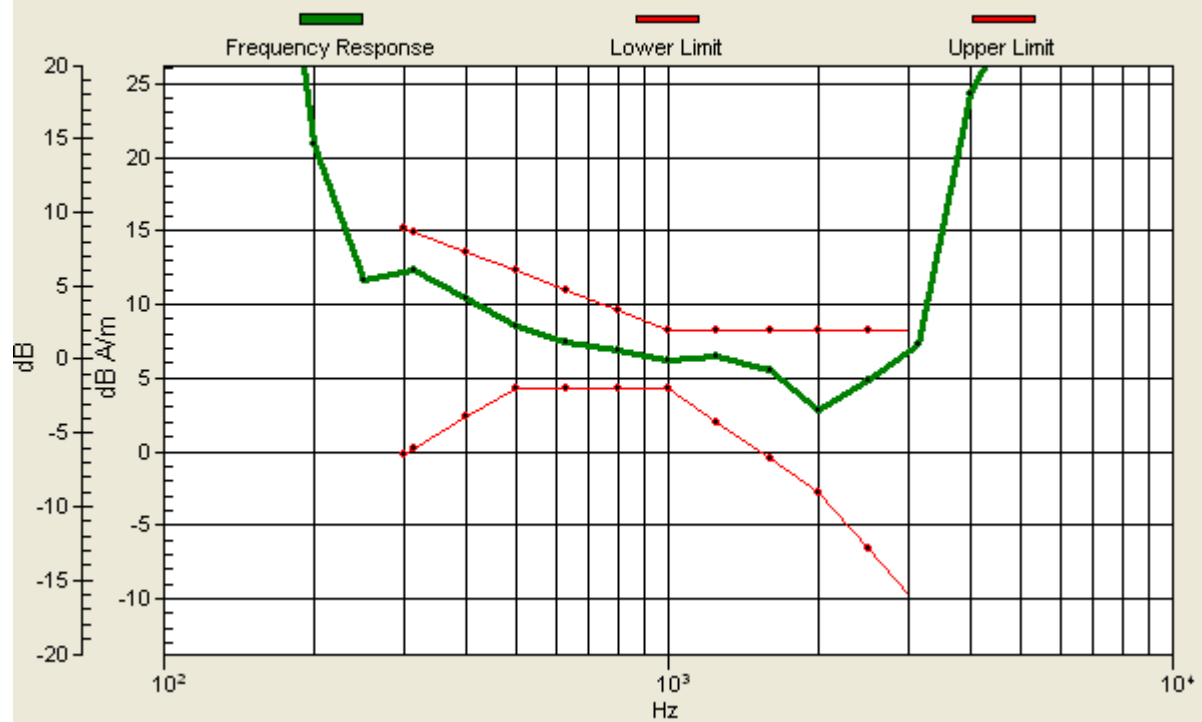
ABM1 comp = 7.36 dB A/m

Location: 0, 0, 3.7 mm



# Ch512/z (axial) wideband at best S/N/ABM [HAC-2007] Freq Resp(x,y,z,f)

Loc: 0, 0, 3.7 mm Diff: 1.56dB



**#04 HAC T-Coil\_GSM1900\_Ch512(X)**

**DUT: 211214**

Communication System: General GSM; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

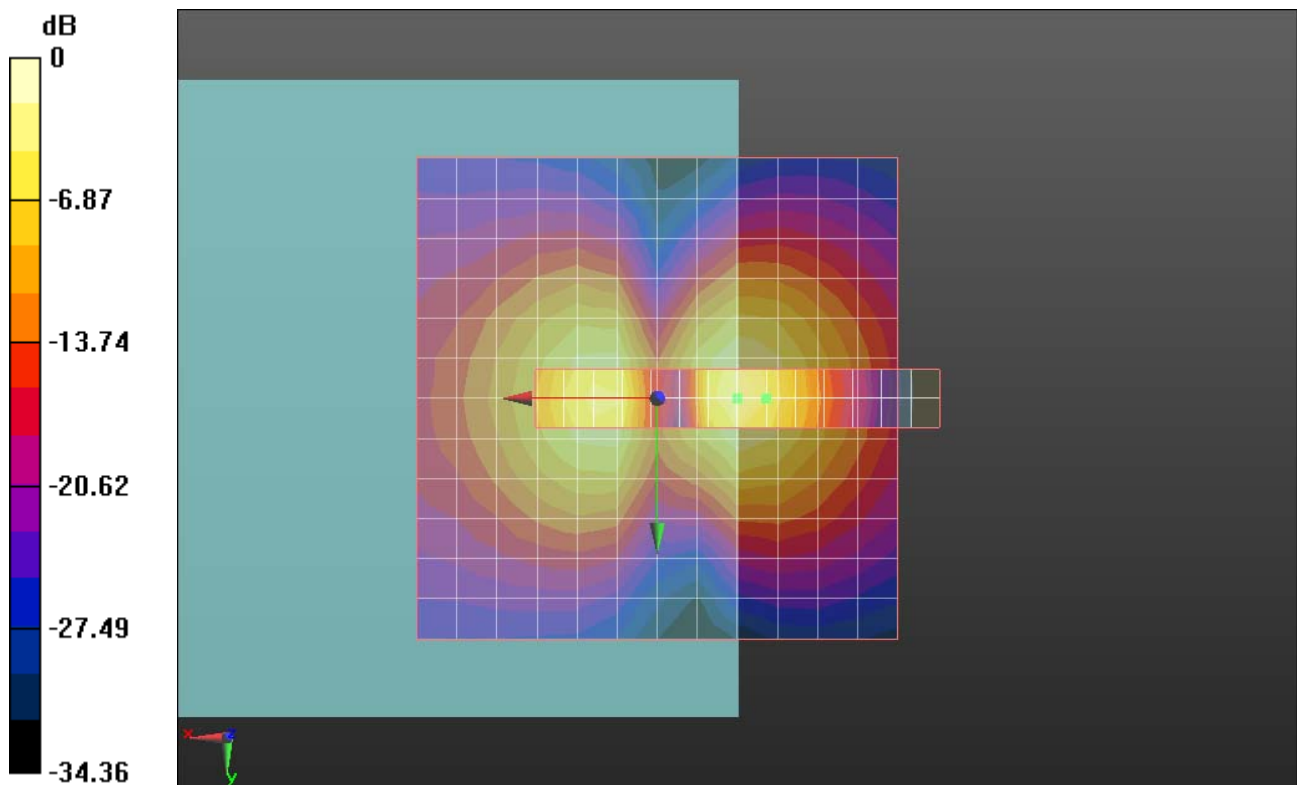
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch512/x (longitudinal) fine 3mm 42 x 6/ABM [HAC-2007] SNR(x,y,z) (15x3x1):**

ABM1/ABM2 = 26.28 dB

ABM1 comp = -2.54 dB A/m

Location: -11.3, 0, 3.7 mm



0 dB = 1.000A/m

**#04 HAC T-Coil\_GSM1900\_Ch512(Y)**

**DUT: 211214**

Communication System: General GSM; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

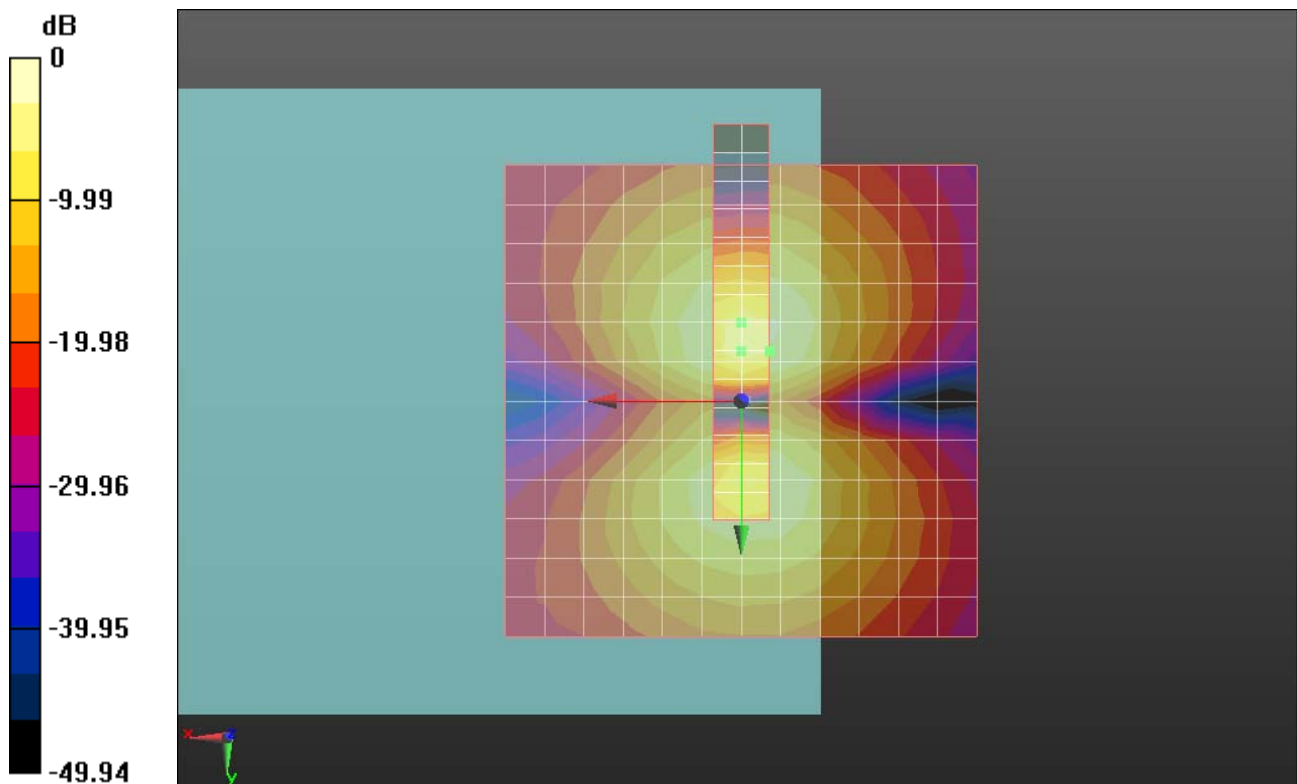
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch512/y (transversal) fine 3mm 6 x 42/ABM [HAC-2007] SNR(x,y,z) (3x15x1):**

ABM1/ABM2 = 39.31 dB

ABM1 comp = -2.63 dB A/m

Location: -3, -5.3, 3.7 mm



0 dB = 1.000A/m

**#05 HAC T-Coil\_GSM1900\_Ch661(Z)**

**DUT: 211214**

Communication System: General GSM; Frequency: 1880 MHz;Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

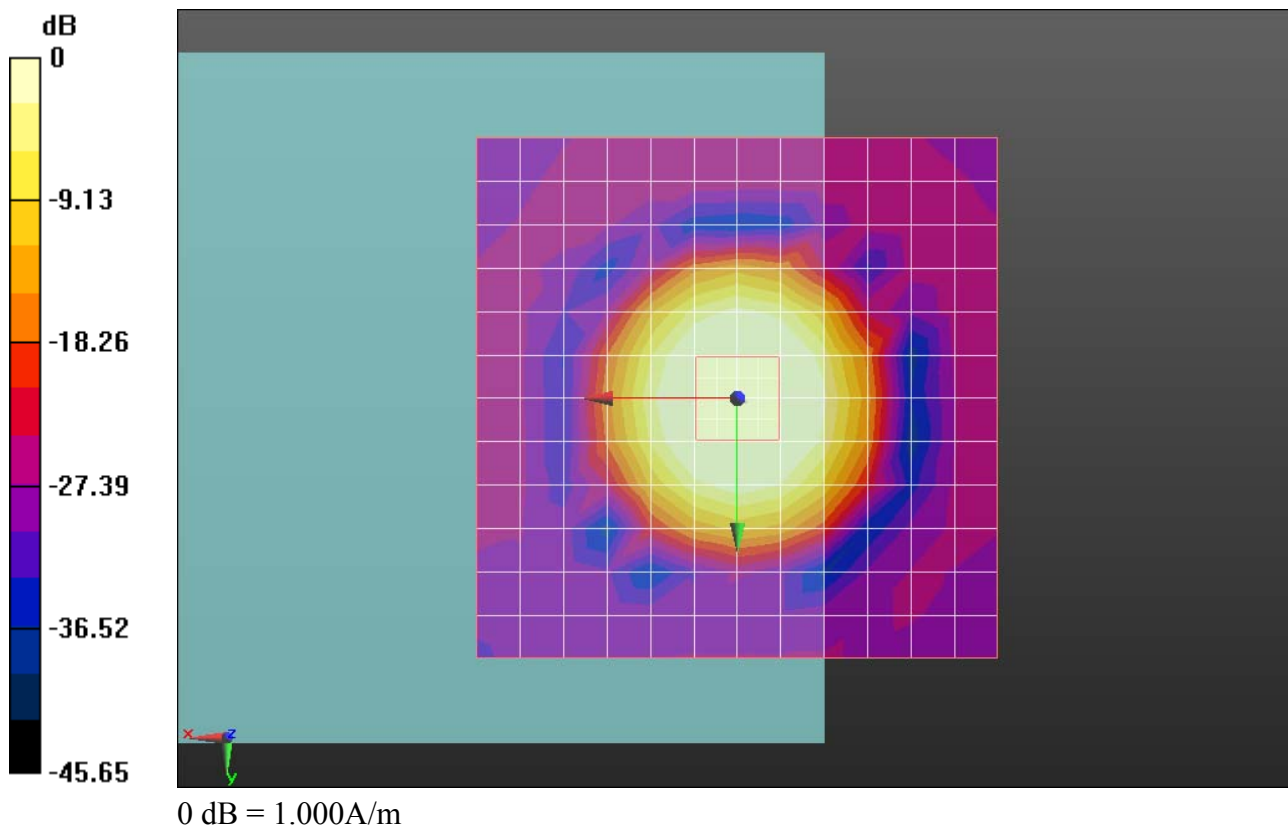
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch661/z (axial) fine 2mm 8 x 8/ABM [HAC-2007] SNR(x,y,z) (5x5x1):**

ABM1/ABM2 = 39.27 dB

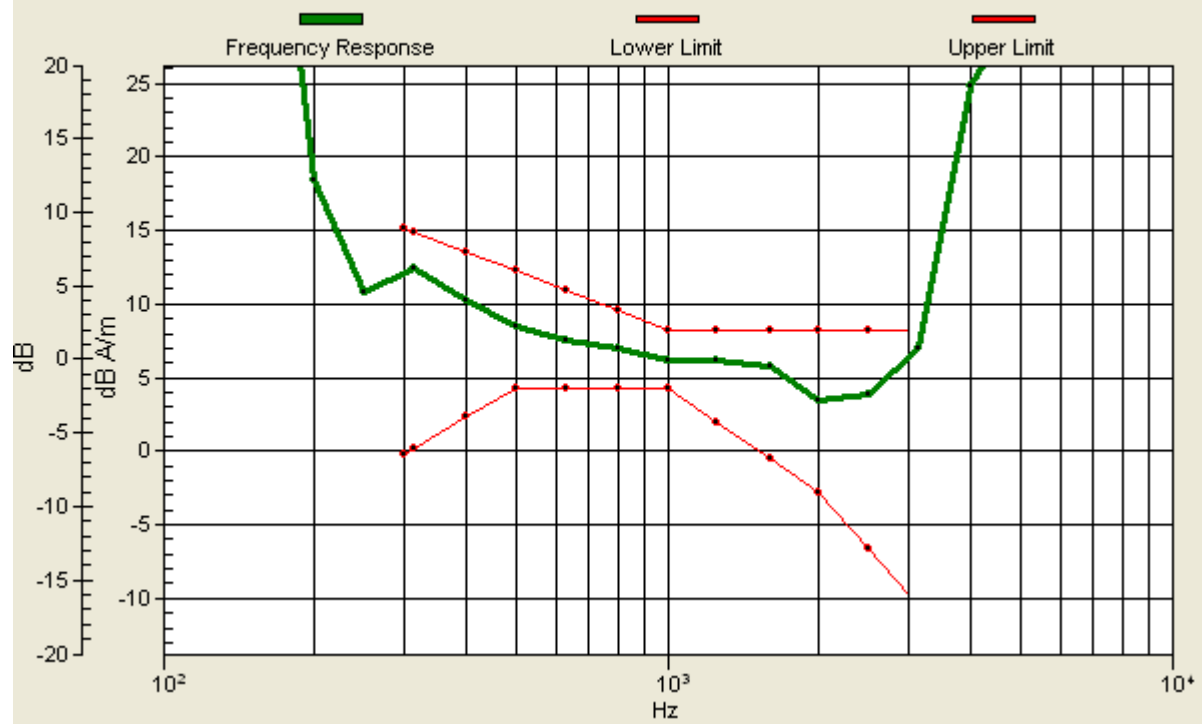
ABM1 comp = 7.52 dB A/m

Location: 0, 0, 3.7 mm



# Ch512/z (axial) wideband at best S/N/ABM [HAC-2007] Freq Resp(x,y,z,f)

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



**#05 HAC T-Coil\_GSM1900\_Ch661(X)**

**DUT: 211214**

Communication System: General GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

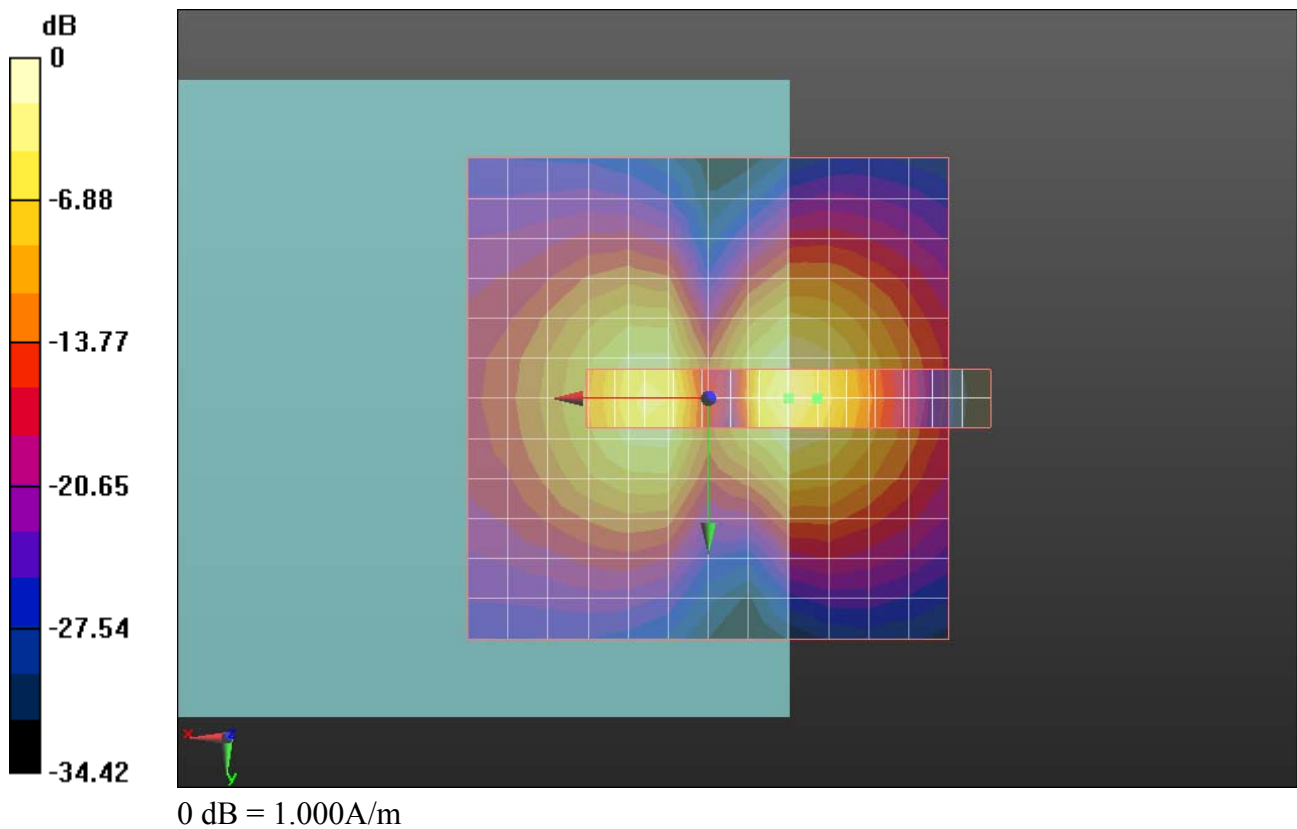
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch661/x (longitudinal) fine 3mm 42 x 6/ABM [HAC-2007] SNR(x,y,z) (15x3x1):**

ABM1/ABM2 = 26.23 dB

ABM1 comp = -2.66 dB A/m

Location: -11.3, 0, 3.7 mm



**#05 HAC T-Coil\_GSM1900\_Ch661(Y)**

**DUT: 211214**

Communication System: General GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

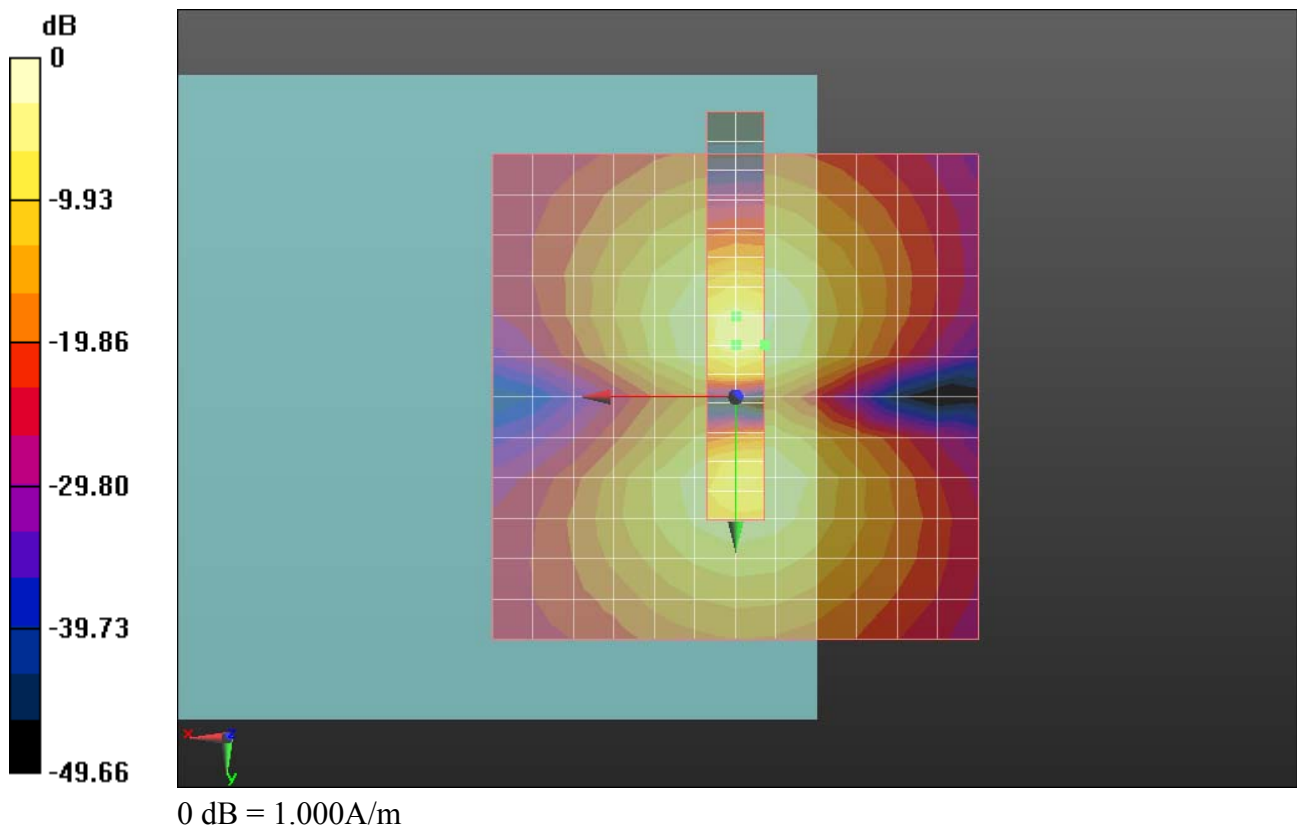
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch661/y (transversal) fine 3mm 6 x 42/ABM [HAC-2007] SNR(x,y,z) (3x15x1):**

ABM1/ABM2 = 38.81 dB

ABM1 comp = -2.77 dB A/m

Location: -3, -5.3, 3.7 mm



**#06 HAC T-Coil\_GSM1900\_Ch810(Z)**

**DUT: 211214**

Communication System: General GSM; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

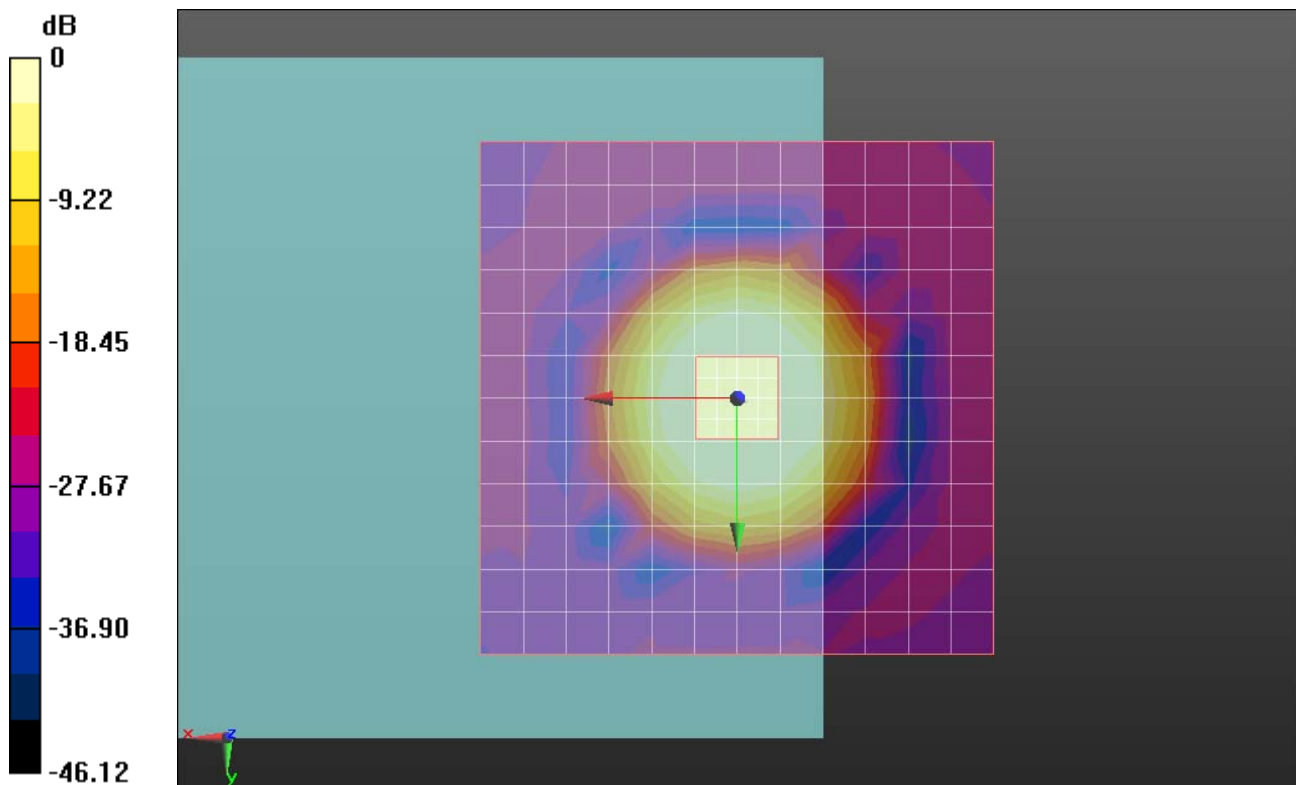
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch810/z (axial) fine 2mm 8 x 8/ABM [HAC-2007] SNR(x,y,z) (5x5x1):**

ABM1/ABM2 = 39.62 dB

ABM1 comp = 7.50 dB A/m

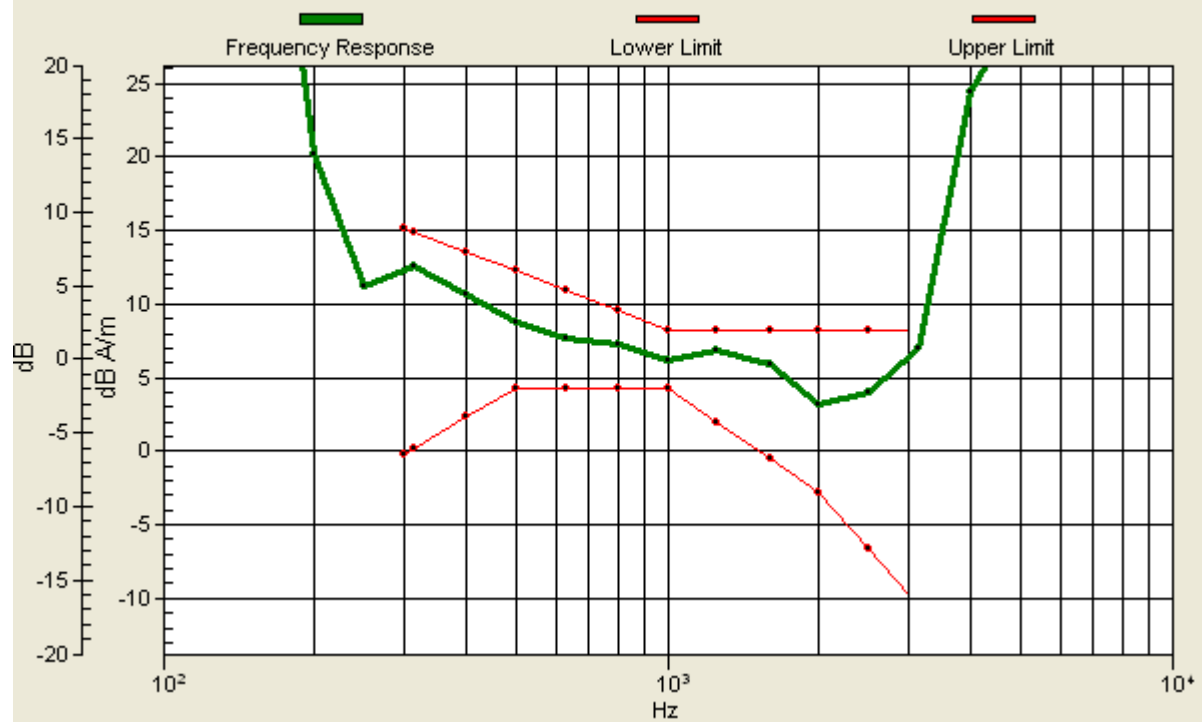
Location: 0, 0, 3.7 mm



0 dB = 1.000A/m

# Ch810/z (axial) wideband at best S/N/ABM [HAC-2007] Freq Resp(x,y,z,f)

Loc: 0, 0, 3.7 mm Diff: 1.45dB



### #06 HAC T-Coil\_GSM1900\_Ch810(X)

**DUT: 211214**

Communication System: General GSM; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

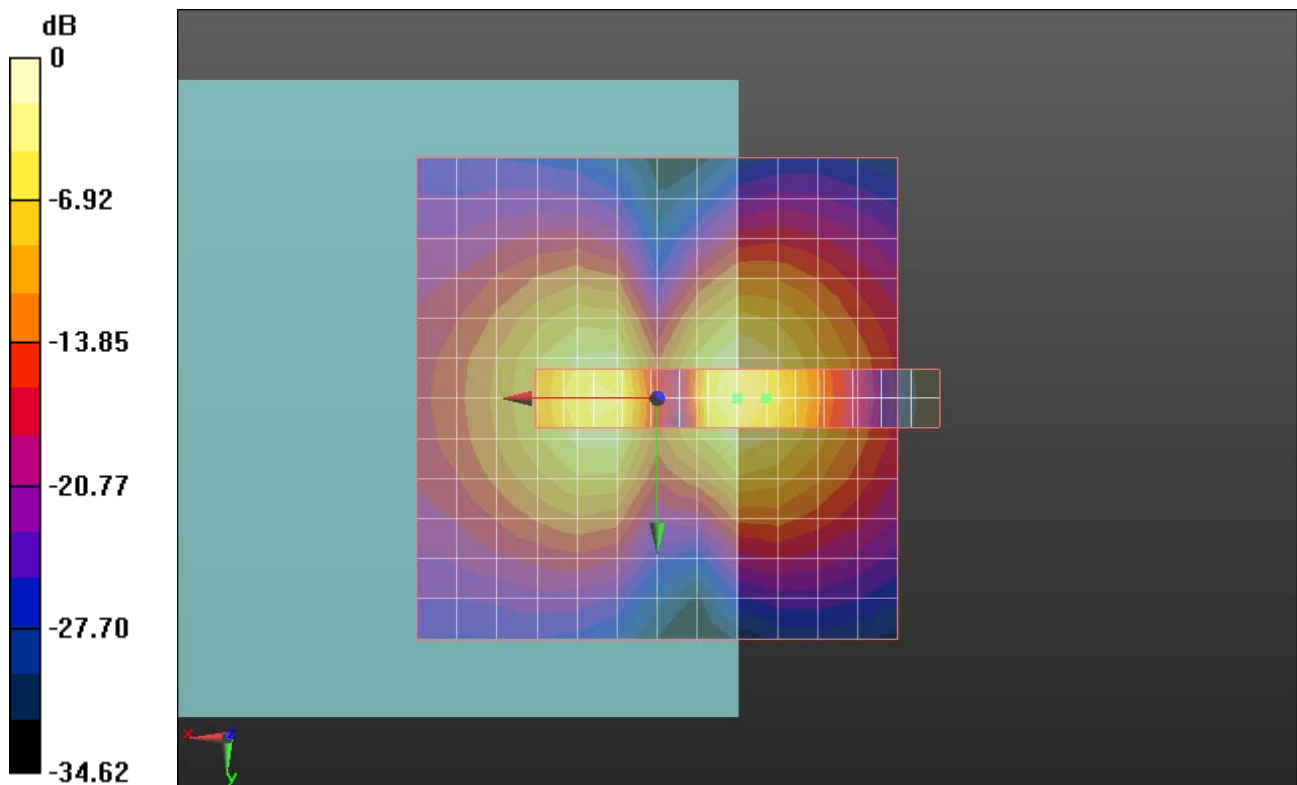
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

### Ch810/x (longitudinal) fine 3mm 42 x 6/ABM [HAC-2007] SNR(x,y,z) (15x3x1):

ABM1/ABM2 = 26.63 dB

ABM1 comp = -2.53 dB A/m

Location: -11.3, 0, 3.7 mm



0 dB = 1.000A/m

### #06 HAC T-Coil\_GSM1900\_Ch810(Y)

**DUT: 211214**

Communication System: General GSM; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

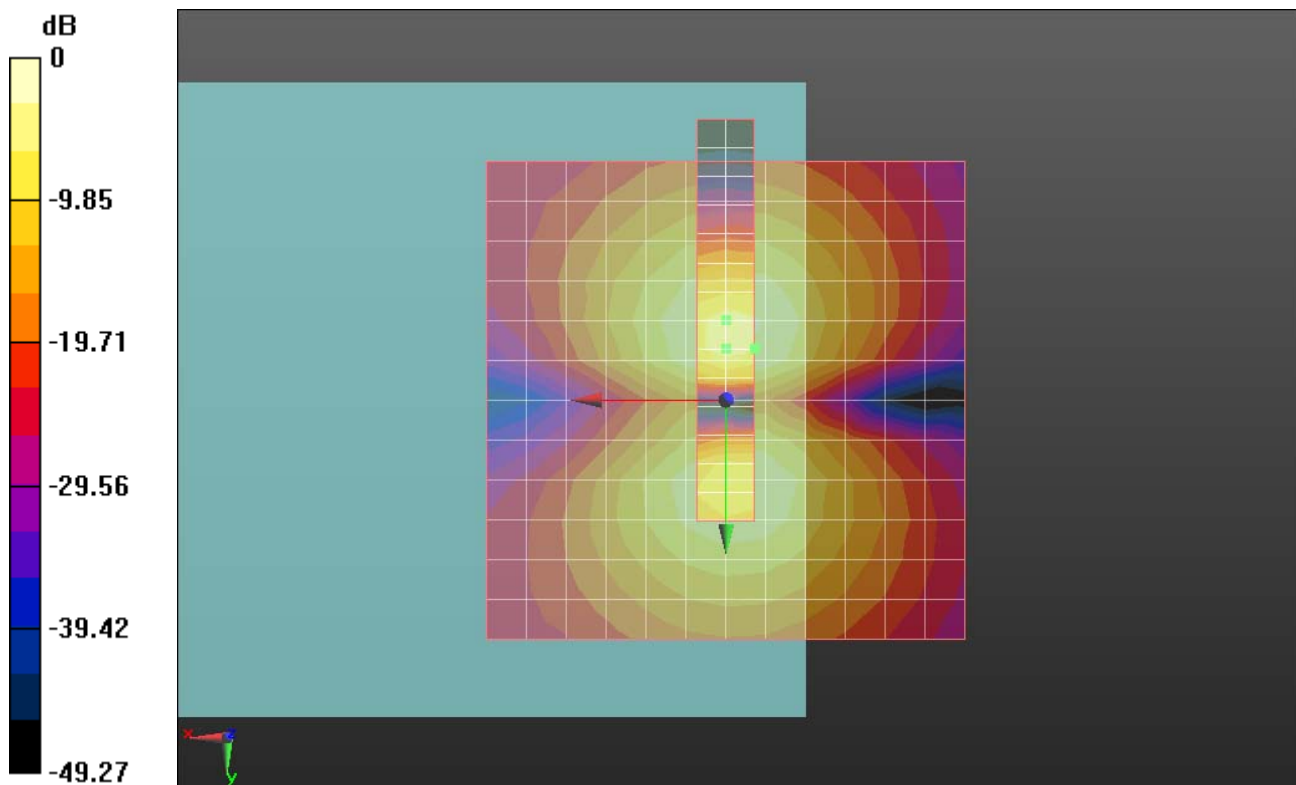
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

### Ch810/y (transversal) fine 3mm 6 x 42/ABM [HAC-2007] SNR(x,y,z) (3x15x1):

ABM1/ABM2 = 39.16 dB

ABM1 comp = -2.58 dB A/m

Location: -3, -5.3, 3.7 mm



0 dB = 1.000A/m

**#07 HAC T-Coil\_WCDMA V\_Voice\_Ch4132(Z)**

**DUT: 211214**

Communication System: UMTS; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

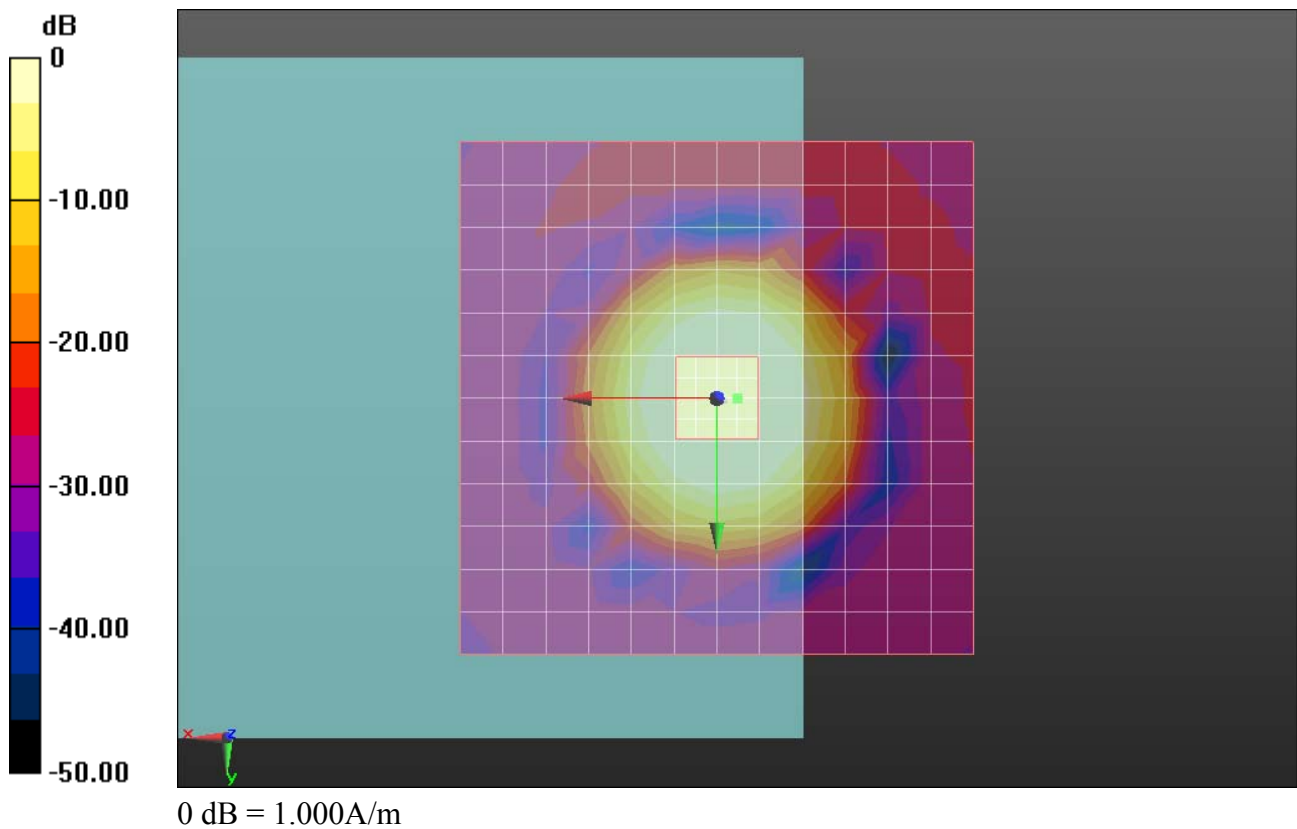
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch4132/z (axial) fine 2mm 8 x 8/ABM [HAC-2007] SNR(x,y,z) (5x5x1):**

ABM1/ABM2 = 48.41 dB

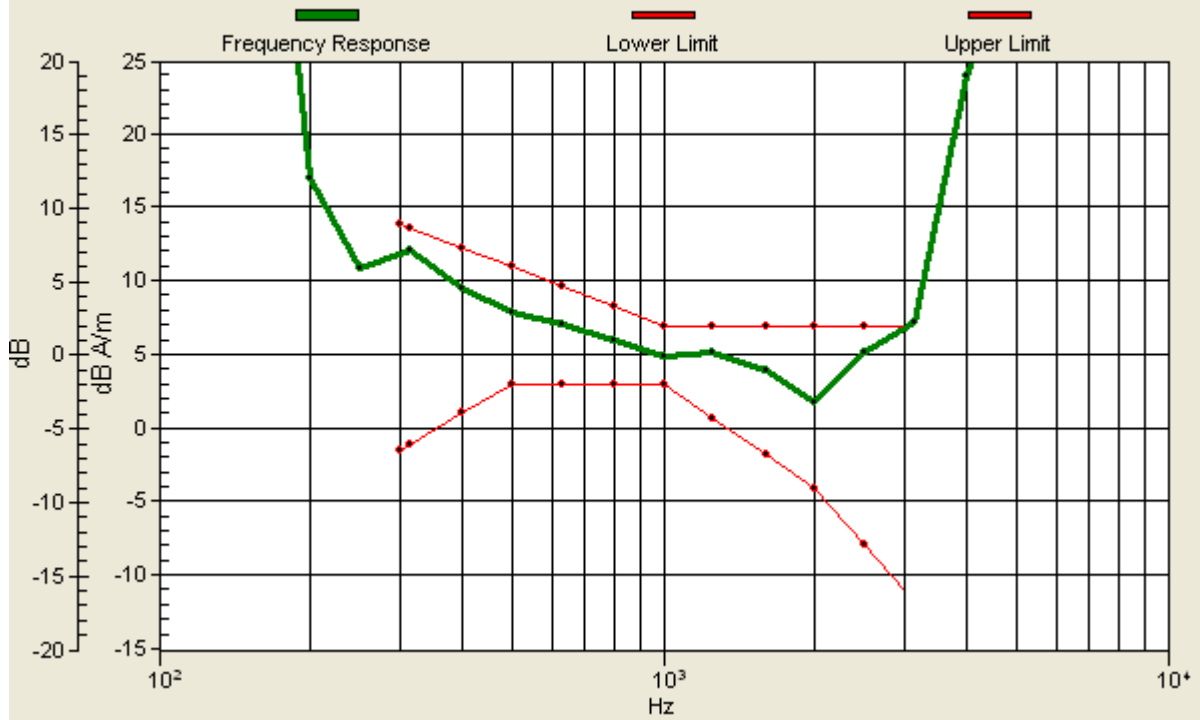
ABM1 comp = 7.20 dB A/m

Location: -2, 0, 3.7 mm



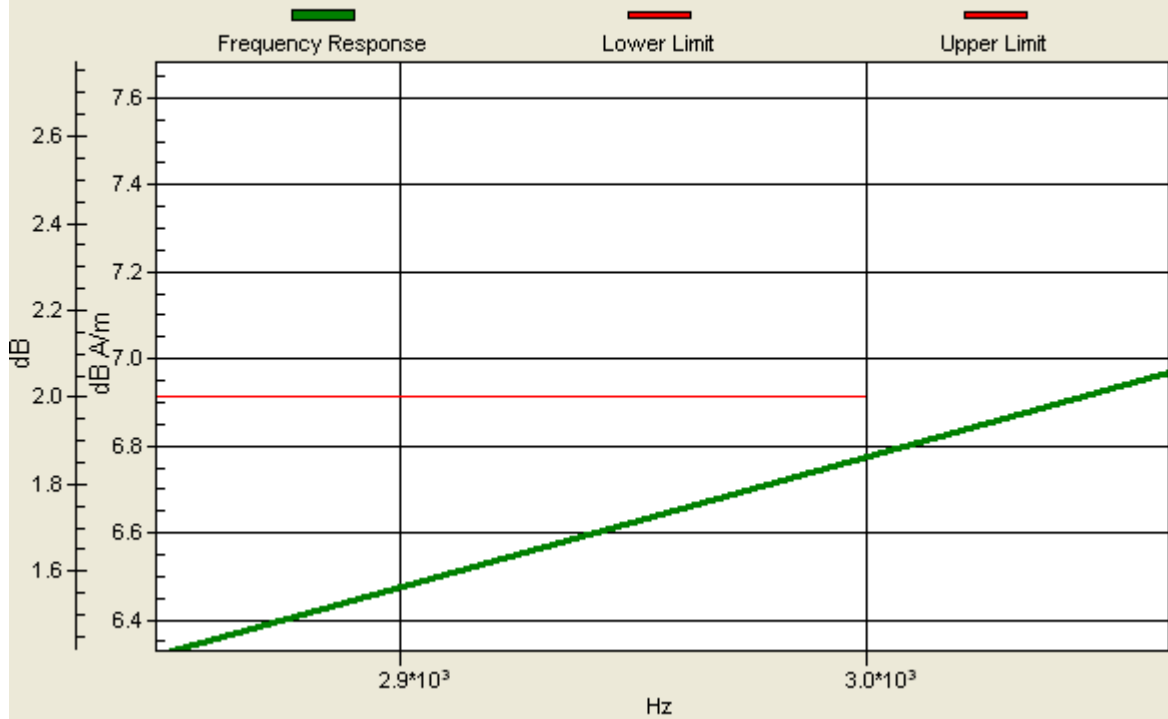
### Ch4132/z (axial) wideband at best S/N/ABM [HAC-2007] Freq Resp(x,y,z,f)

Loc: -2, 0, 3.7 mm Diff: 0.18dB



### Ch4132/z (axial) wideband at best S/N/ABM [HAC-2007] Freq Resp(x,y,z,f)

Loc: -2, 0, 3.7 mm Diff: 0.18dB



**#07 HAC T-Coil\_WCDMA V\_Voice\_Ch4132(X)**

**DUT: 211214**

Communication System: UMTS; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

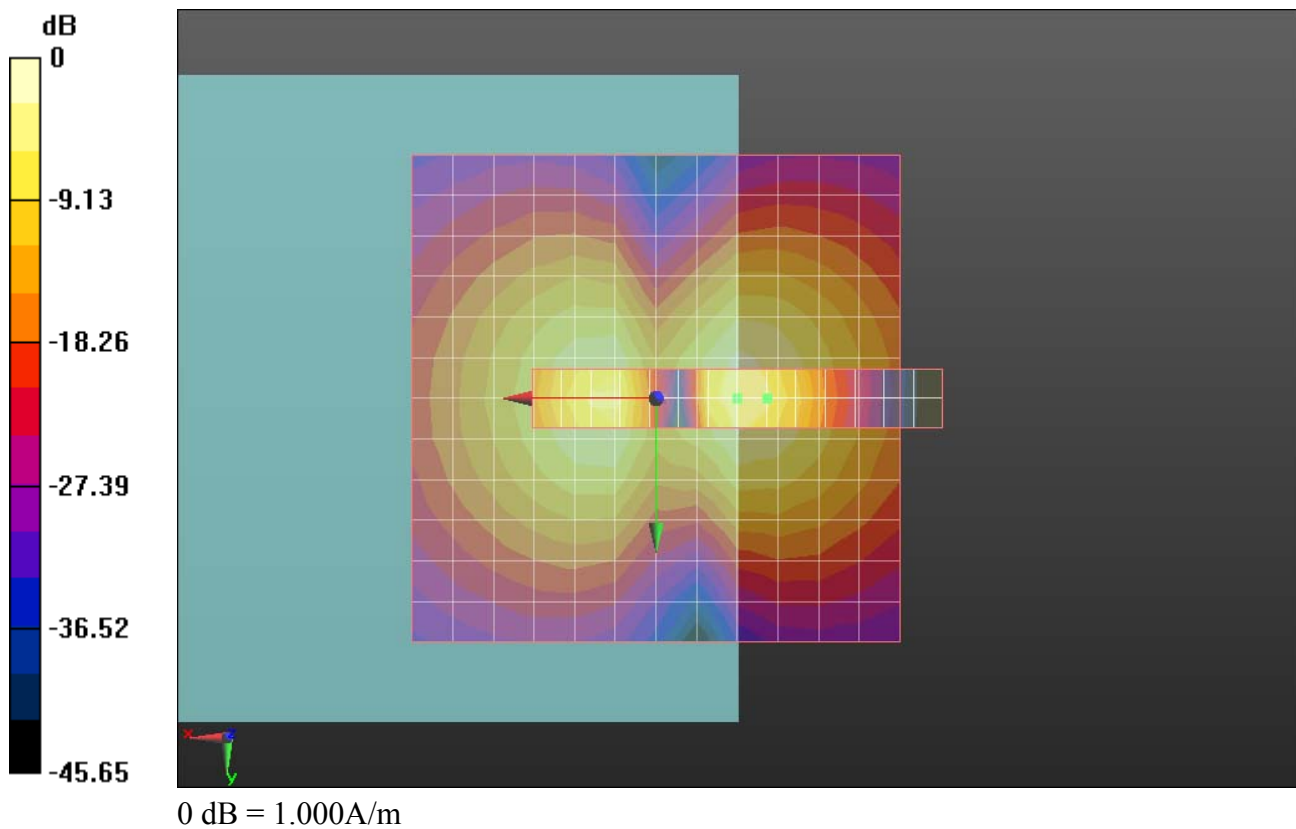
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch4132/x (longitudinal) fine 3mm 42 x 6/ABM [HAC-2007] SNR(x,y,z) (15x3x1):**

ABM1/ABM2 = 39.70 dB

ABM1 comp = -2.17 dB A/m

Location: -11.3, 0, 3.7 mm



**#07 HAC T-Coil\_WCDMA V\_Voice\_Ch4132(Y)**

**DUT: 211214**

Communication System: UMTS; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

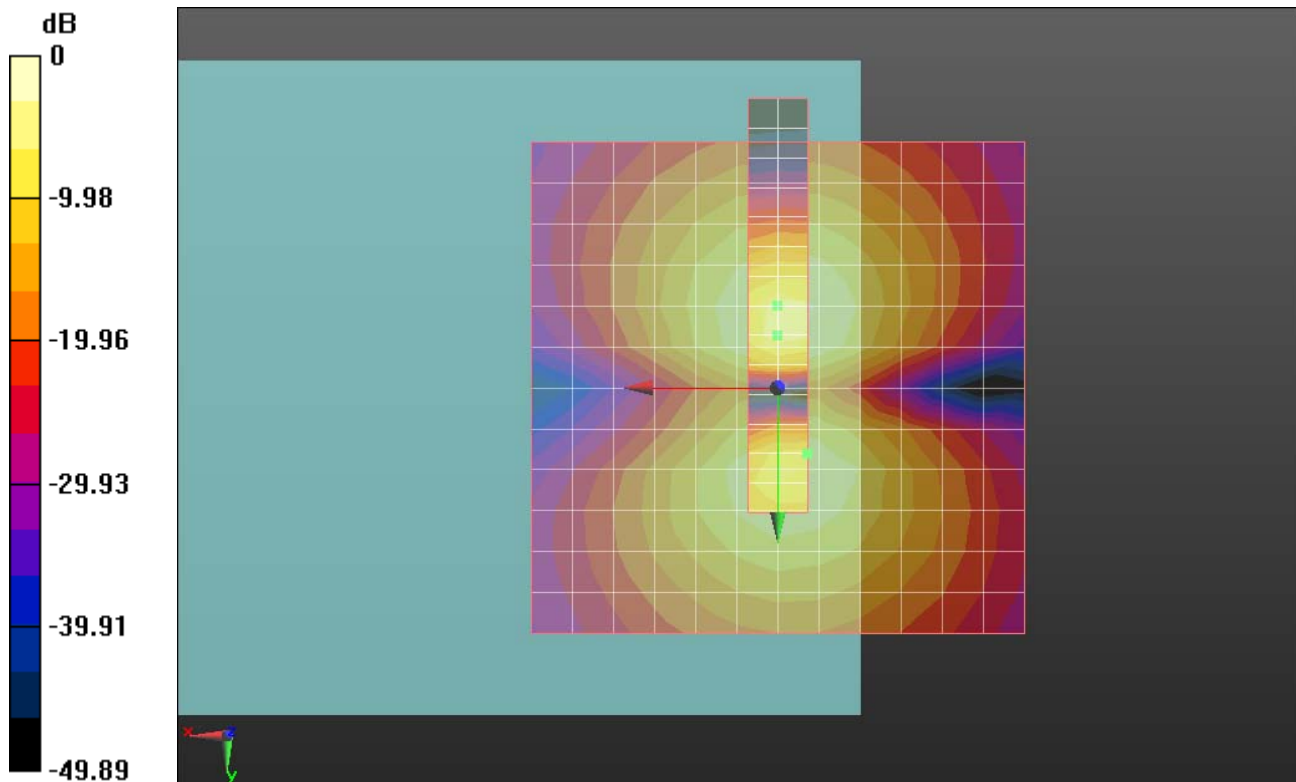
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch4132/y (transversal) fine 3mm 6 x 42/ABM [HAC-2007] SNR(x,y,z) (3x15x1):**

ABM1/ABM2 = 40.62 dB

ABM1 comp = -3.52 dB A/m

Location: -3, 6.7, 3.7 mm



0 dB = 1.000A/m

**#08 HAC T-Coil\_WCDMA V\_Voice\_Ch4182(Z)**

**DUT: 211214**

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/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

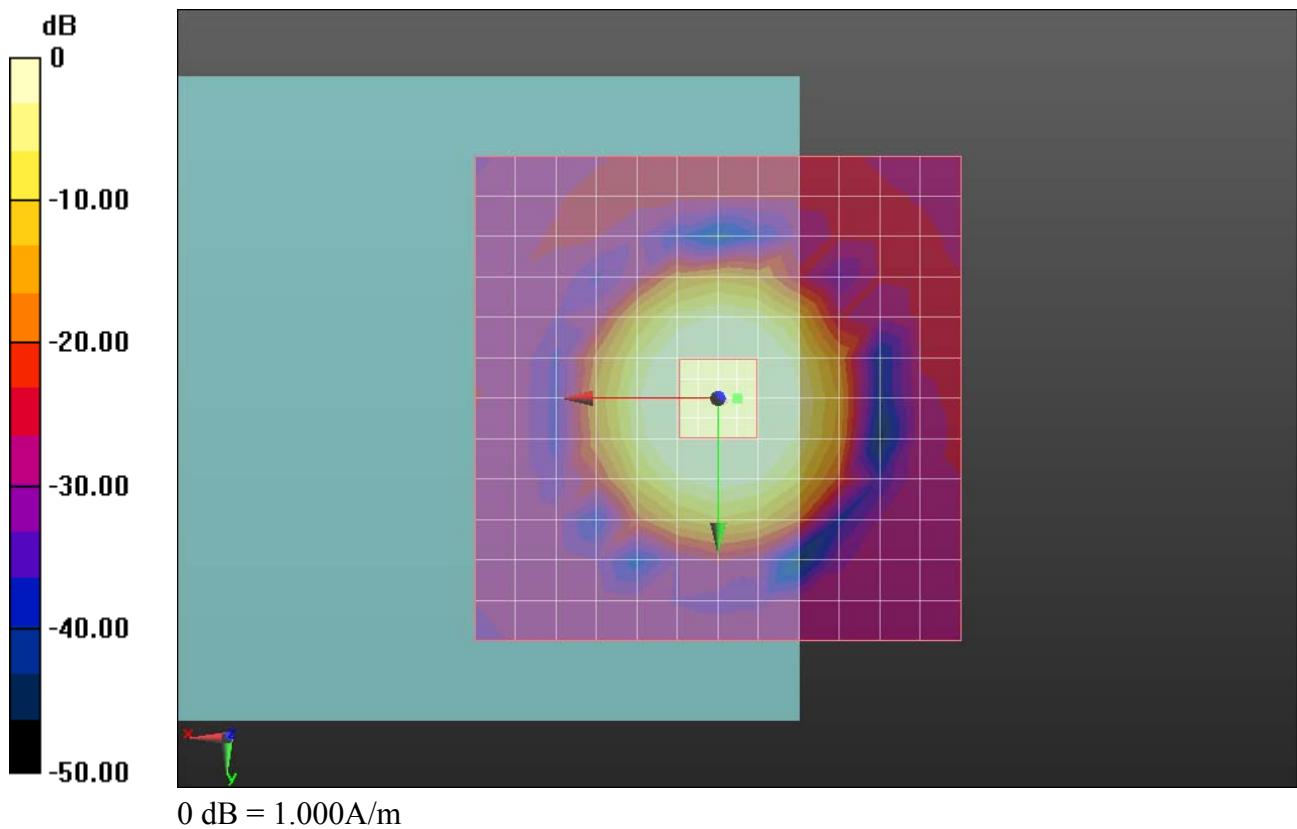
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch4182/z (axial) fine 2mm 8 x 8/ABM [HAC-2007] SNR(x,y,z) (5x5x1):**

ABM1/ABM2 = 47.90 dB

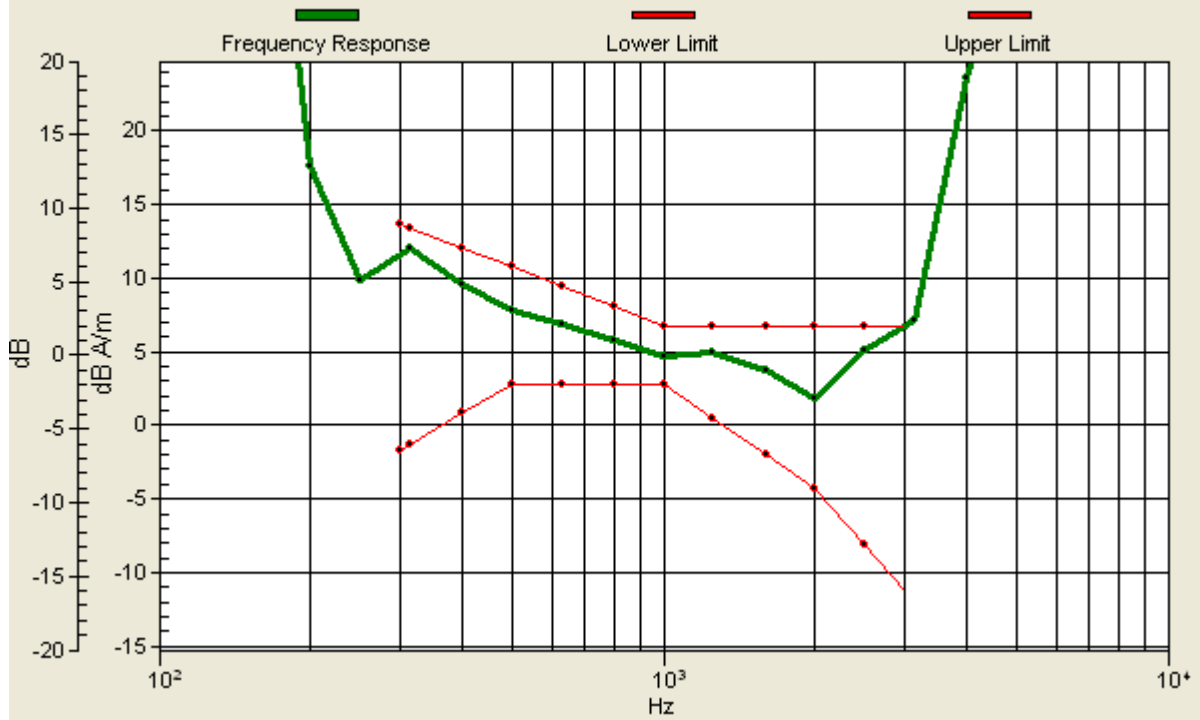
ABM1 comp = 7.22 dB A/m

Location: -2, 0, 3.7 mm



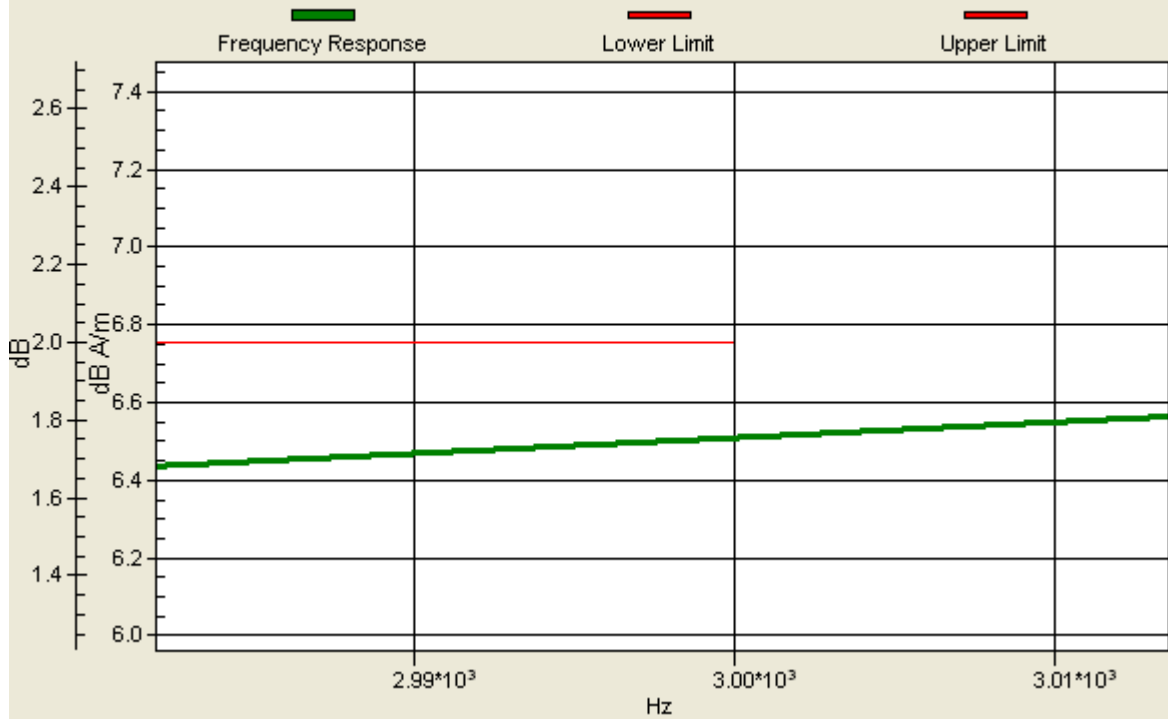
### Ch4182/z (axial) wideband at best S/N/ABM [HAC-2007] Freq Resp(x,y,z,f)

Loc: -2, 0, 3.7 mm Diff: 0.1dB



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

Loc: -2, 0, 3.7 mm Diff: 0.1dB



**#08 HAC T-Coil\_WCDMA V\_Voice\_Ch4182(X)**

**DUT: 211214**

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/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

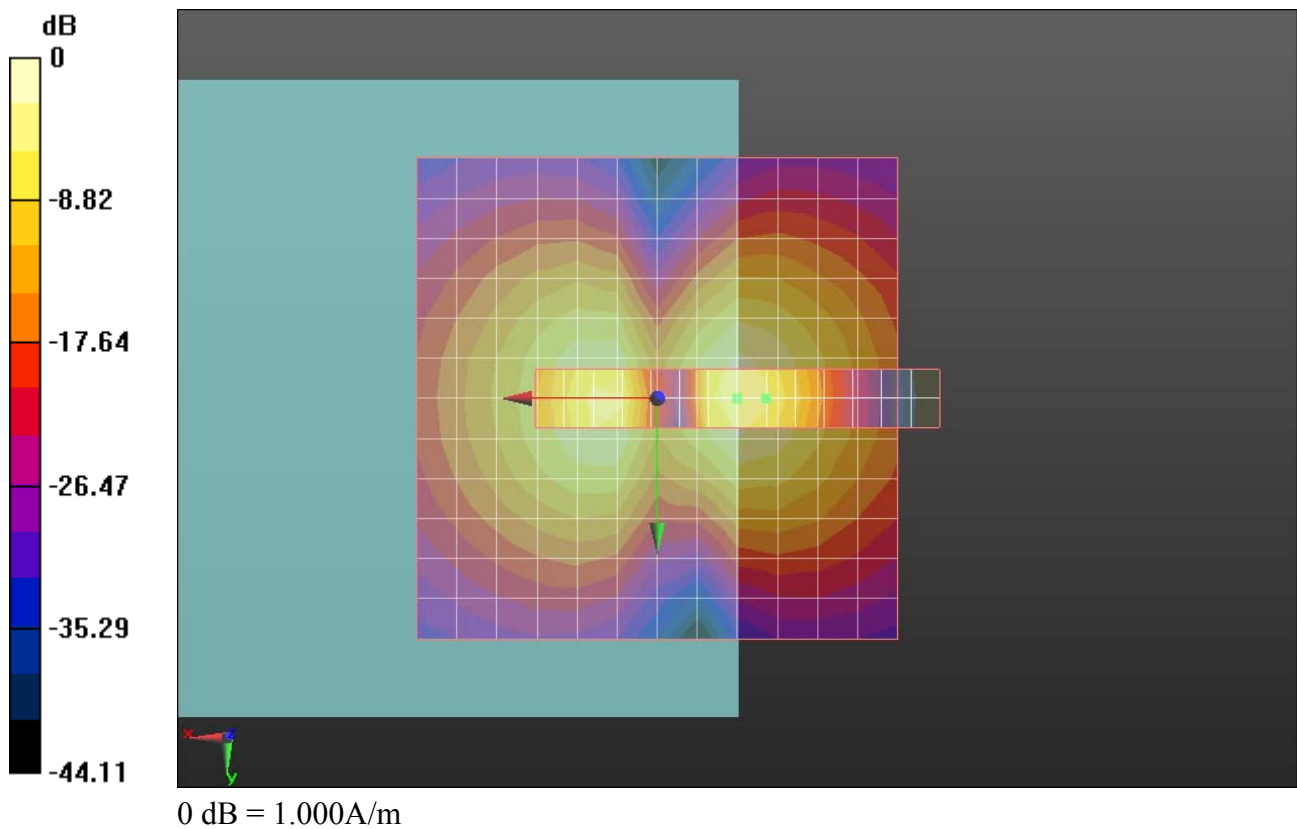
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch4182/x (longitudinal) fine 3mm 42 x 6/ABM [HAC-2007] SNR(x,y,z) (15x3x1):**

ABM1/ABM2 = 39.95 dB

ABM1 comp = -2.24 dB A/m

Location: -11.3, 0, 3.7 mm



**#08 HAC T-Coil\_WCDMA V\_Voice\_Ch4182(Y)**

**DUT: 211214**

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/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

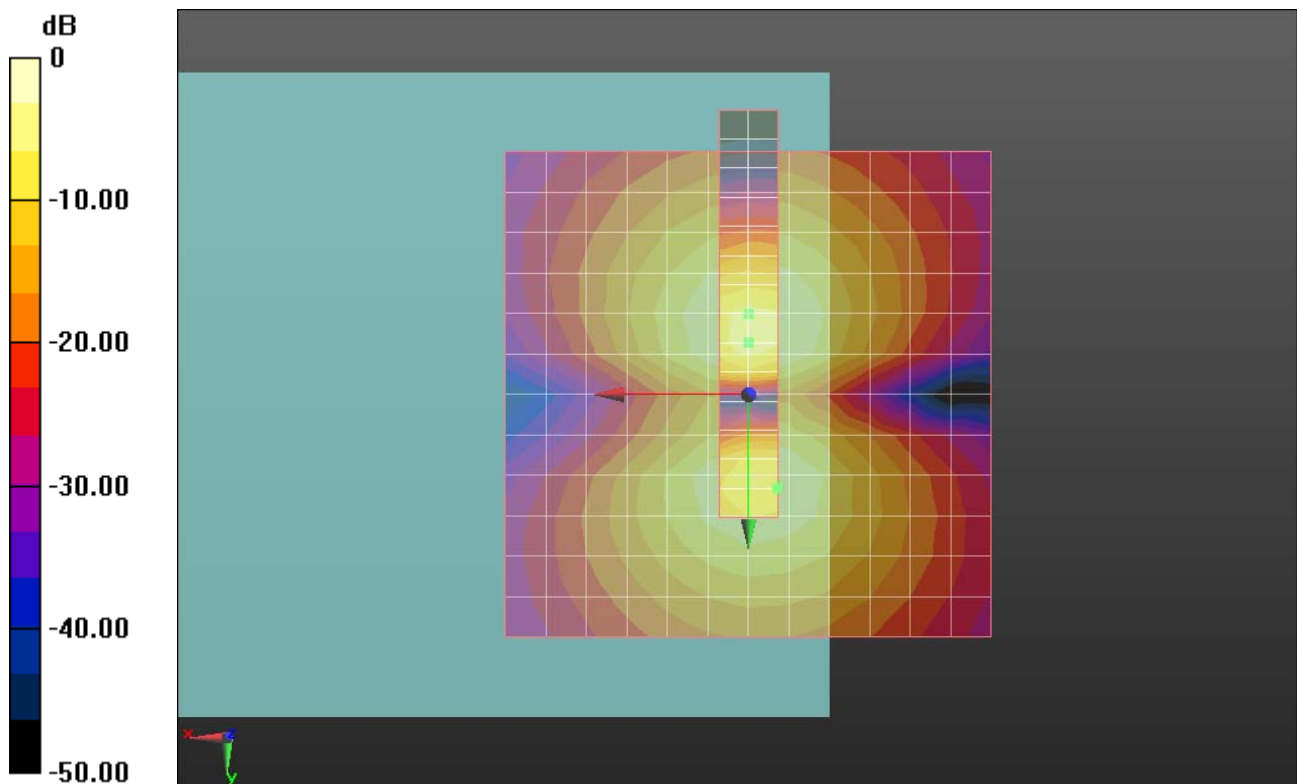
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch4182/y (transversal) fine 3mm 6 x 42/ABM [HAC-2007] SNR(x,y,z) (3x15x1):**

ABM1/ABM2 = 41.13 dB

ABM1 comp = -3.18 dB A/m

Location: -3, 9.7, 3.7 mm



0 dB = 1.000A/m

**#09 HAC T-Coil\_WCDMA V\_Voice\_Ch4233(Z)**

**DUT: 211214**

Communication System: UMTS; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

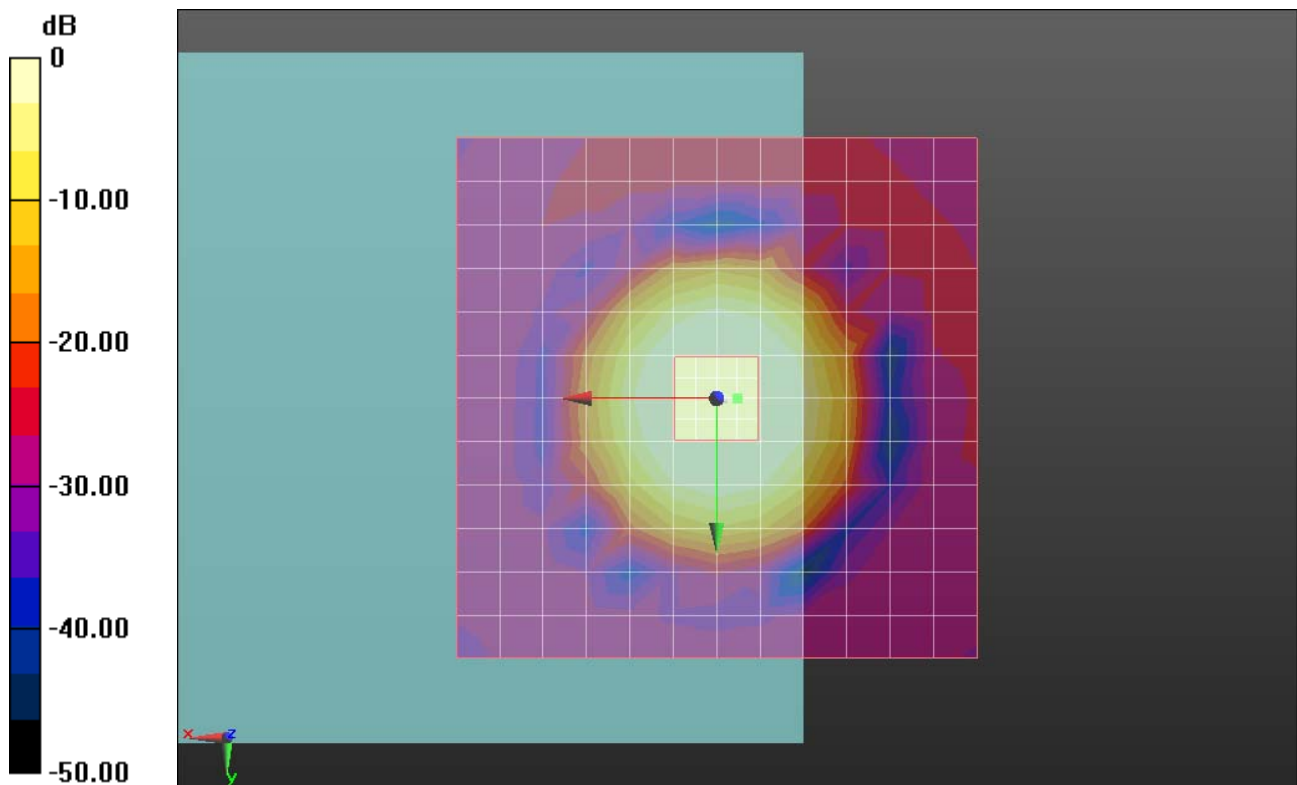
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch4233/z (axial) fine 2mm 8 x 8/ABM [HAC-2007] SNR(x,y,z) (5x5x1):**

ABM1/ABM2 = 47.31 dB

ABM1 comp = 6.83 dB A/m

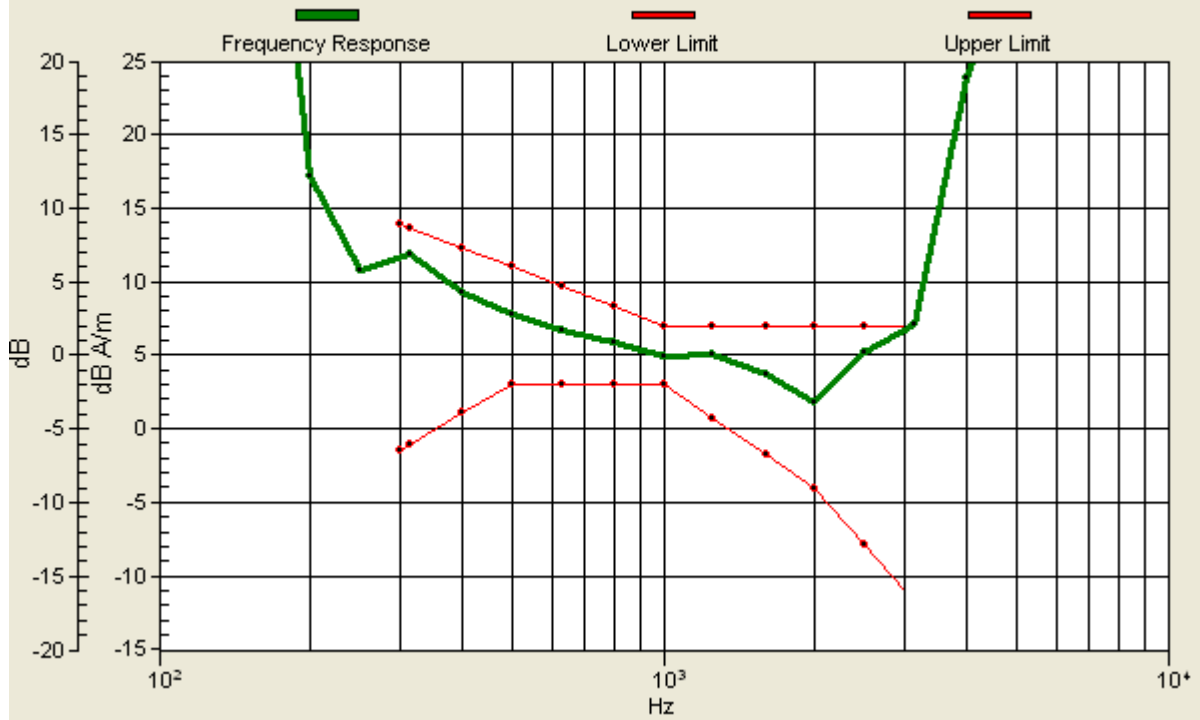
Location: -2, 0, 3.7 mm



0 dB = 1.000A/m

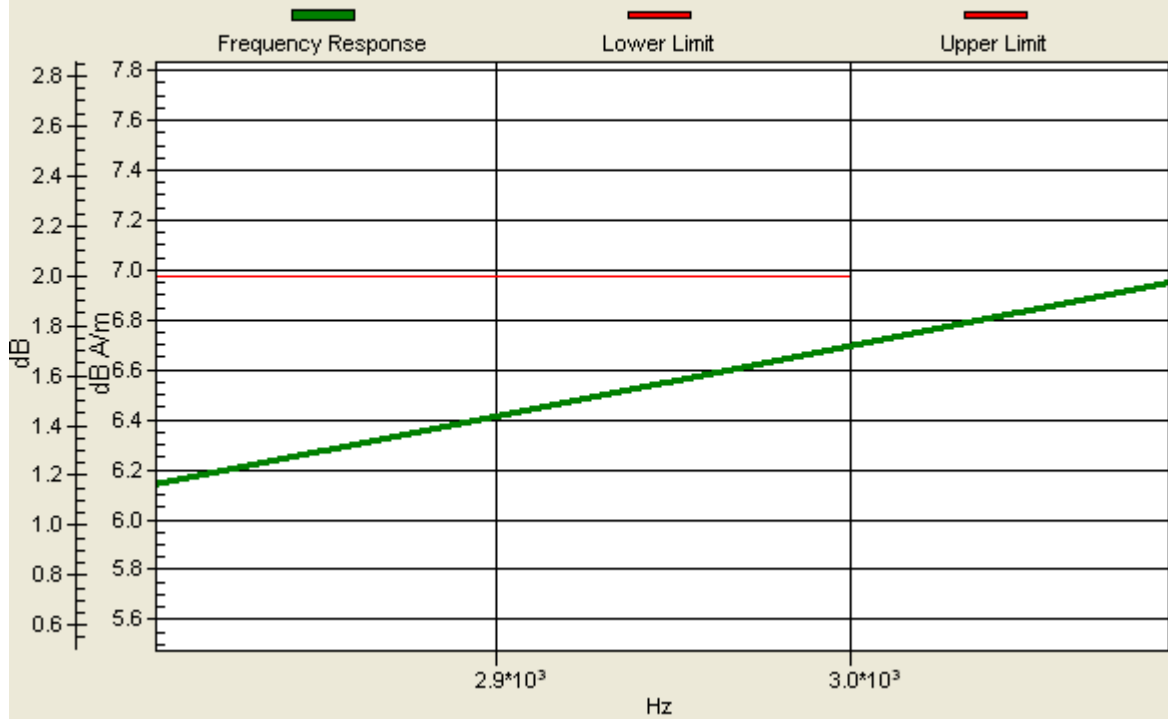
### Ch4233/z (axial) wideband at best S/N/ABM [HAC-2007] Freq Resp(x,y,z,f)

Loc: -2, 0, 3.7 mm Diff: 0.32dB



### Ch4233/z (axial) wideband at best S/N/ABM [HAC-2007] Freq Resp(x,y,z,f)

Loc: -2, 0, 3.7 mm Diff: 0.32dB



**#09 HAC T-Coil\_WCDMA V\_Voice\_Ch4233(X)**

**DUT: 211214**

Communication System: UMTS; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

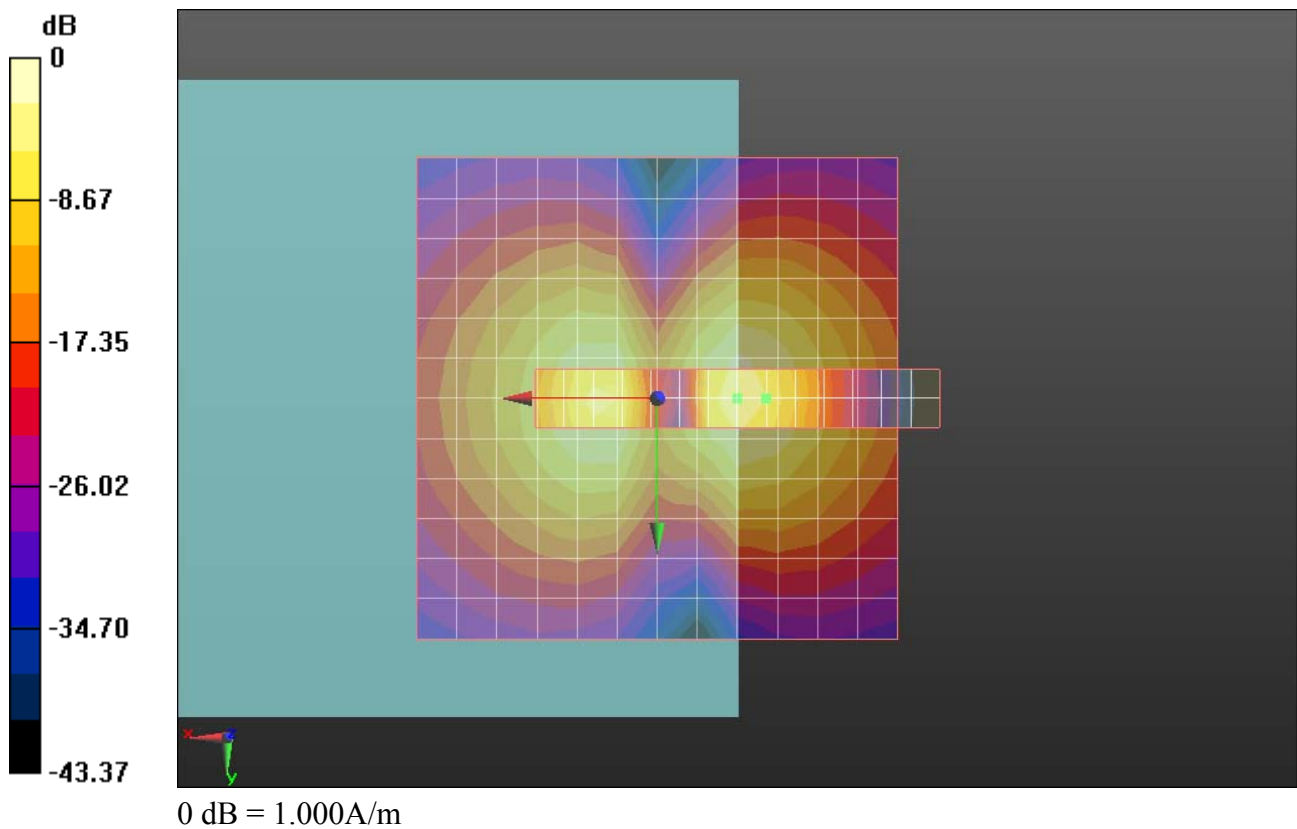
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch4233/x (longitudinal) fine 3mm 42 x 6/ABM [HAC-2007] SNR(x,y,z) (15x3x1):**

ABM1/ABM2 = 39.60 dB

ABM1 comp = -2.60 dB A/m

Location: -11.3, 0, 3.7 mm



**#09 HAC T-Coil\_WCDMA V\_Voice\_Ch4233(Y)**

**DUT: 211214**

Communication System: UMTS; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

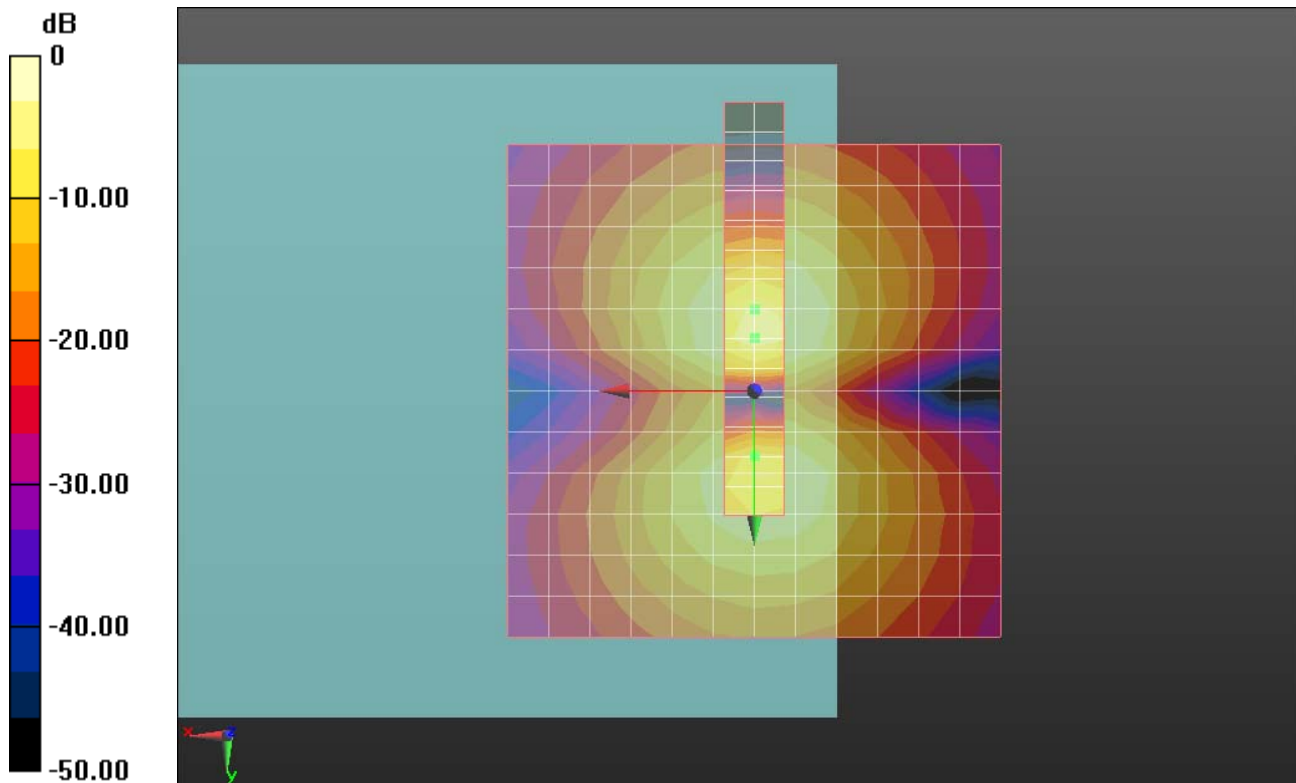
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch4233/y (transversal) fine 3mm 6 x 42/ABM [HAC-2007] SNR(x,y,z) (3x15x1):**

ABM1/ABM2 = 40.65 dB

ABM1 comp = -3.55 dB A/m

Location: 0, 6.7, 3.7 mm



0 dB = 1.000A/m

### #10 HAC T-Coil\_WCDMA II\_Voice\_Ch9262(Z)

**DUT: 211214**

Communication System: UMTS; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

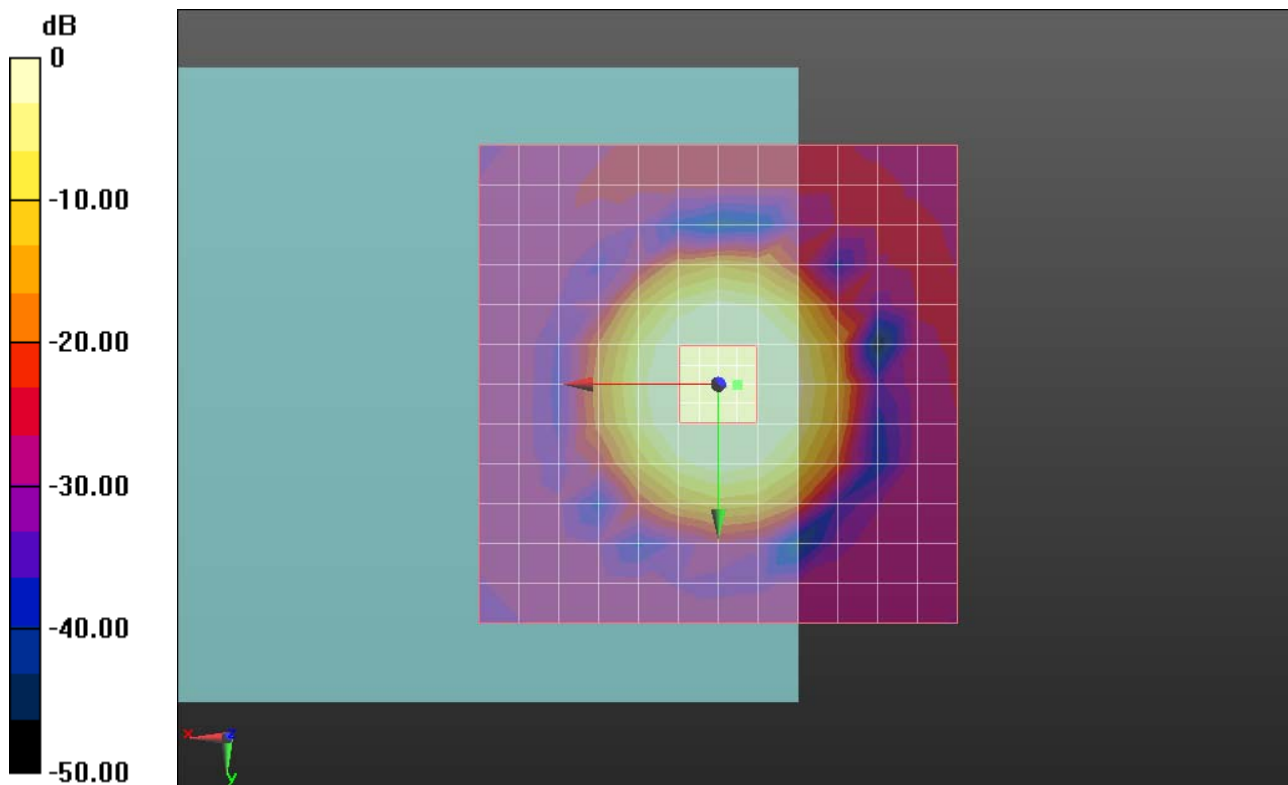
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

### Ch9262/z (axial) fine 2mm 8 x 8/ABM [HAC-2007] SNR(x,y,z) (5x5x1):

ABM1/ABM2 = 47.36 dB

ABM1 comp = 7.12 dB A/m

Location: -2, 0, 3.7 mm



0 dB = 1.000A/m

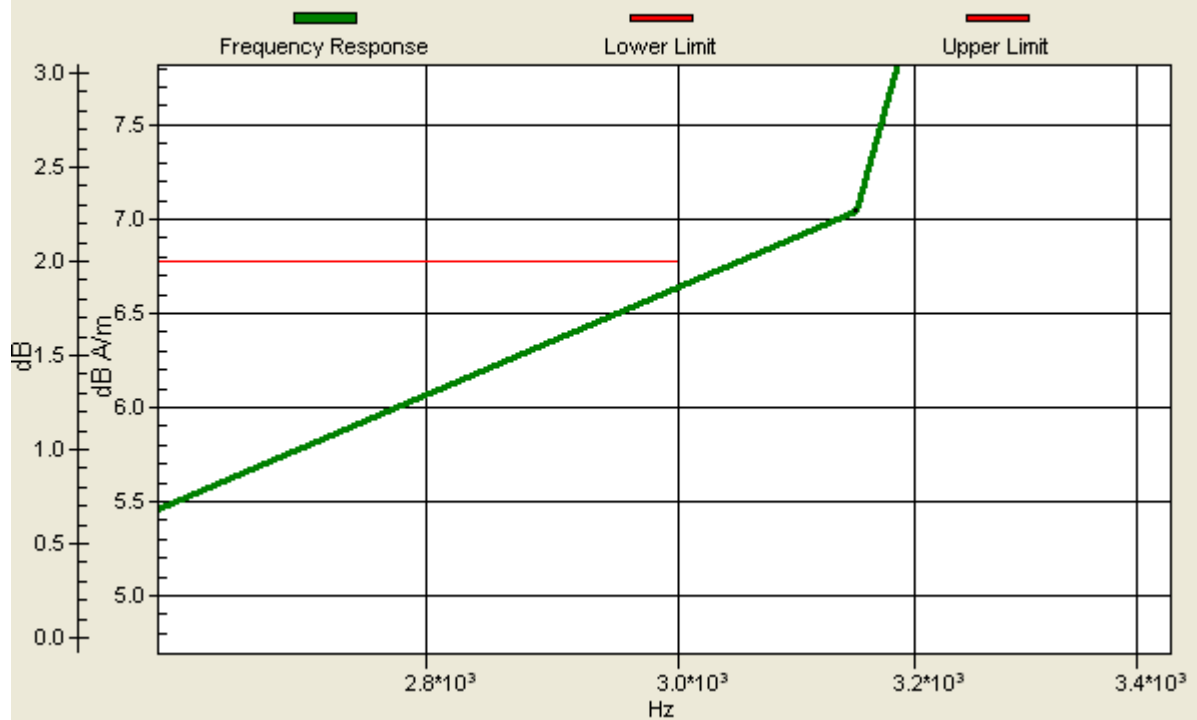
### Ch9262/z (axial) wideband at best S/N/ABM [HAC-2007] Freq Resp(x,y,z,f)

Loc: -2, 0, 3.7 mm Diff: 0.17dB



### Ch9262/z (axial) wideband at best S/N/ABM [HAC-2007] Freq Resp(x,y,z,f)

Loc: -2, 0, 3.7 mm Diff: 0.17dB



**#10 HAC T-Coil\_WCDMA II\_Voice\_Ch9262(X)**

**DUT: 211214**

Communication System: UMTS; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

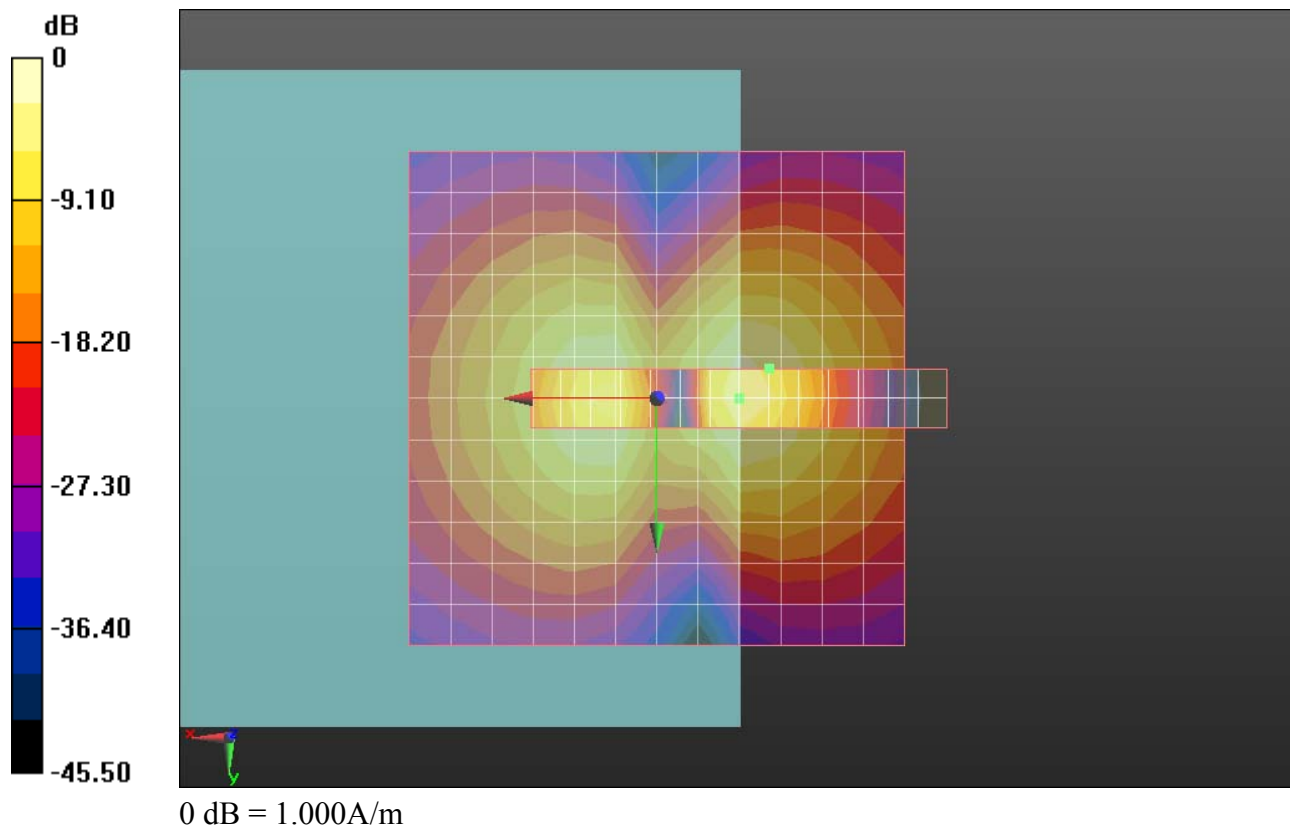
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch9262/x (longitudinal) fine 3mm 42 x 6/ABM [HAC-2007] SNR(x,y,z) (15x3x1):**

ABM1/ABM2 = 39.54 dB

ABM1 comp = -2.87 dB A/m

Location: -11.3, -3, 3.7 mm



### #10 HAC T-Coil\_WCDMA II\_Voice\_Ch9262(Y)

**DUT: 211214**

Communication System: UMTS; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

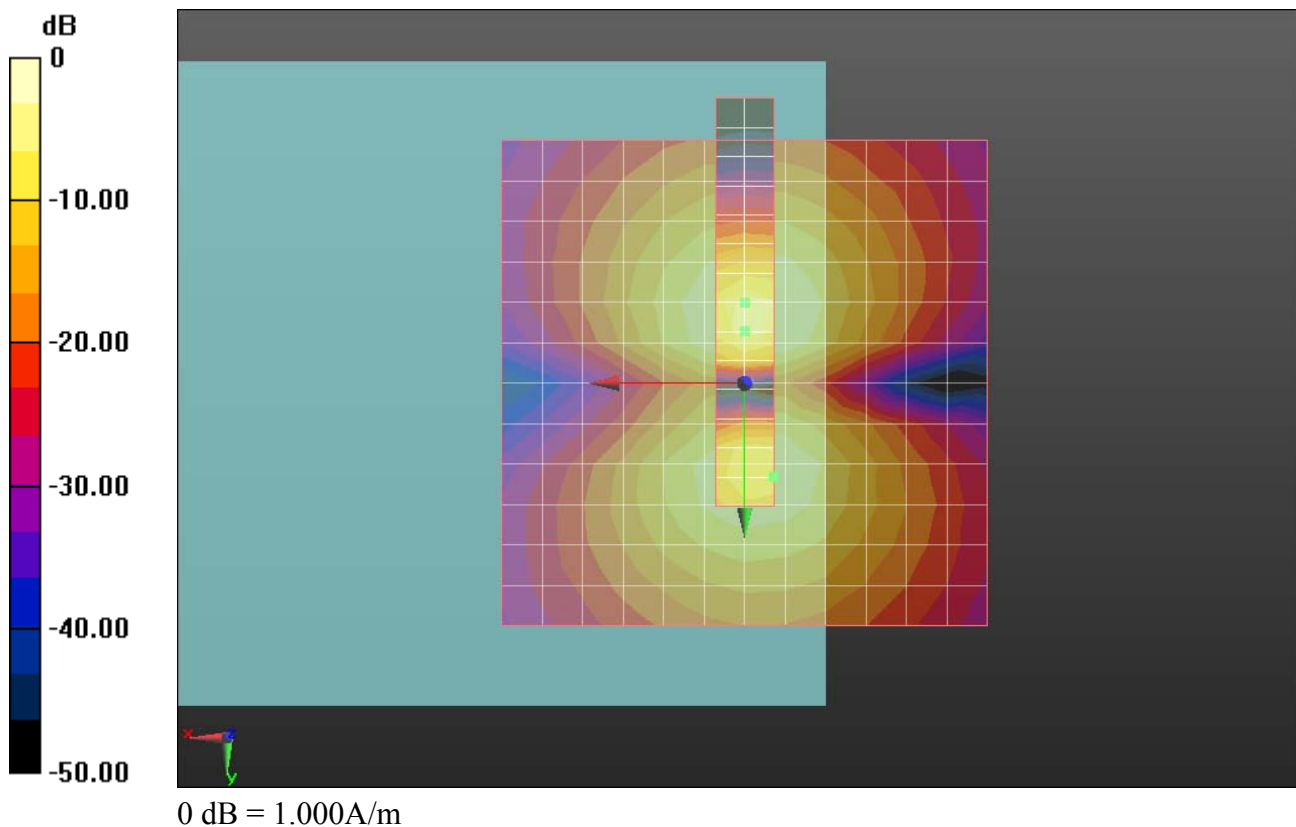
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

### Ch9262/y (transversal) fine 3mm 6 x 42/ABM [HAC-2007] SNR(x,y,z) (3x15x1):

ABM1/ABM2 = 40.28 dB

ABM1 comp = -3.19 dB A/m

Location: -3, 9.7, 3.7 mm



### #11 HAC T-Coil\_WCDMA II\_Voice\_Ch9400(Z)

**DUT: 211214**

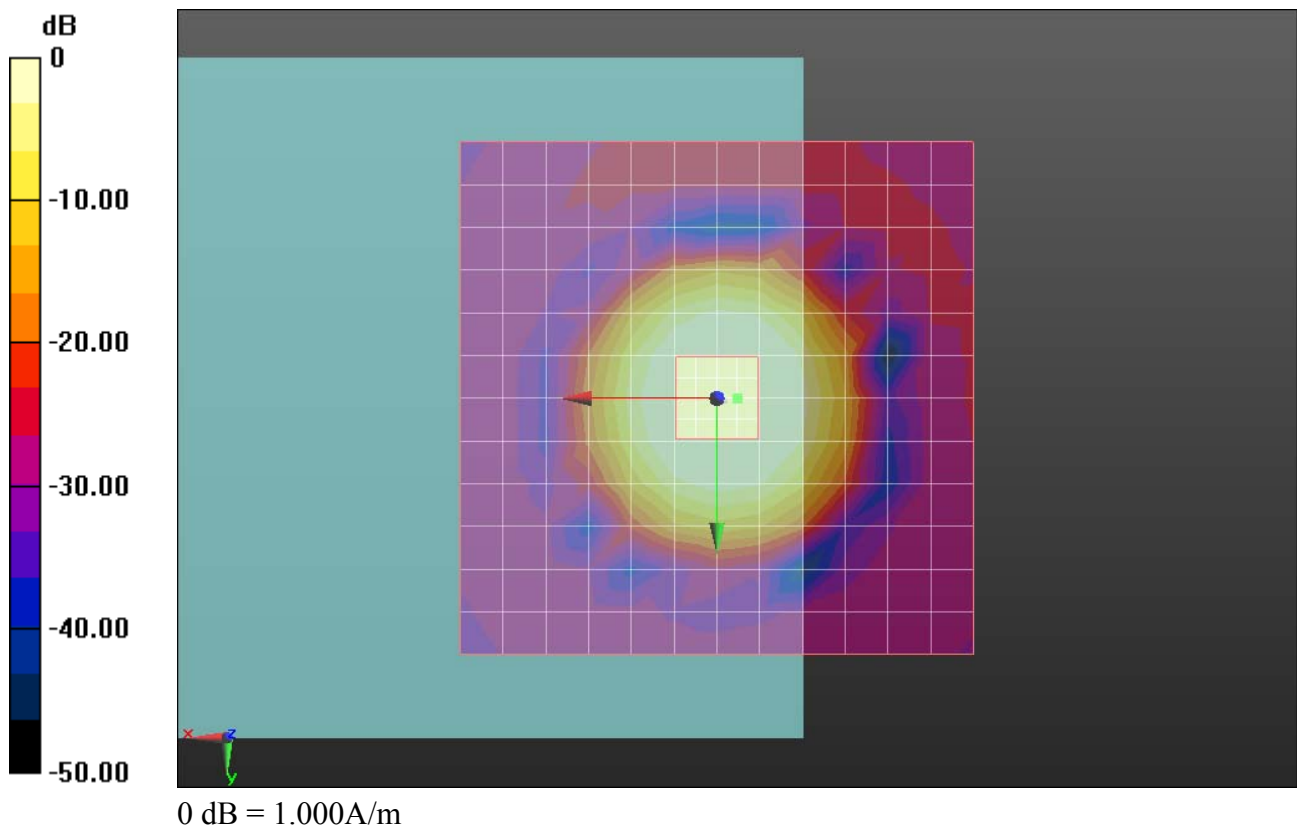
Communication System: UMTS; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Ambient Temperature : 23.5 °C

**DASY5 Configuration:**

- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch9400/z (axial) fine 2mm 8 x 8/ABM [HAC-2007] SNR(x,y,z) (5x5x1):**

ABM1/ABM2 = 45.90 dB  
ABM1 comp = 6.79 dB A/m  
Location: -2, 0, 3.7 mm



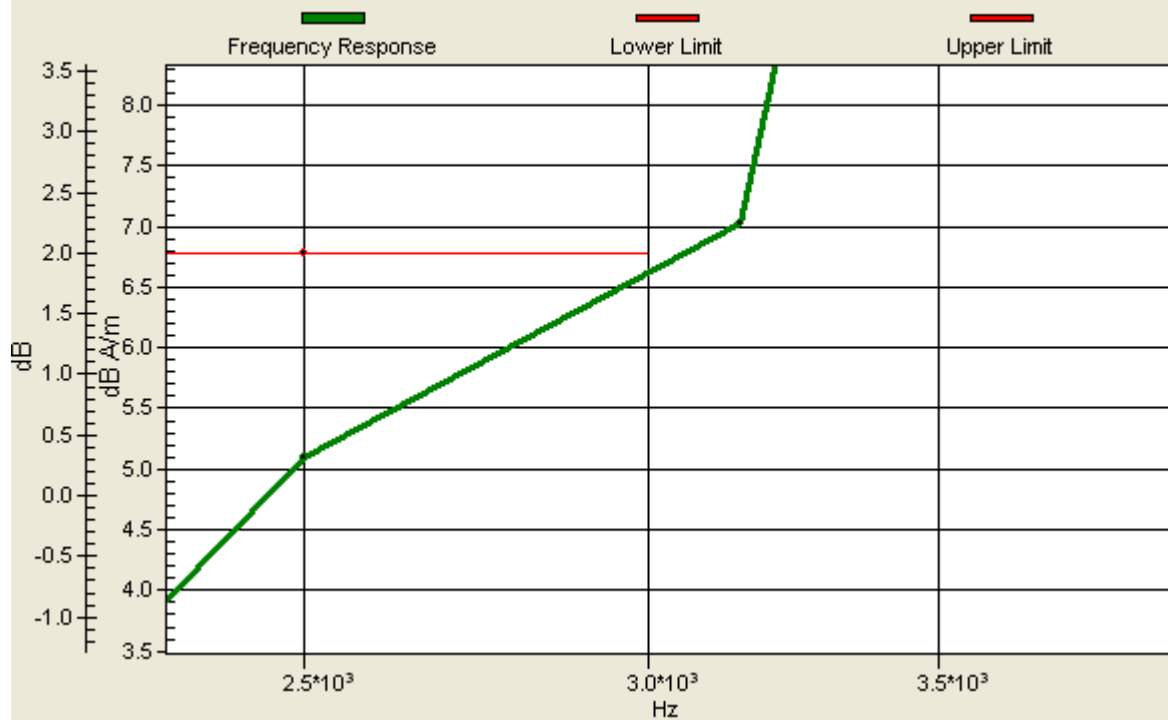
### Ch9400/z (axial) wideband at best S/N/ABM [HAC-2007] Freq Resp(x,y,z,f)

Loc: -2, 0, 3.7 mm Diff: 0.21dB



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

Loc: -2, 0, 3.7 mm Diff: 0.21dB



**#11 HAC T-Coil\_WCDMA II\_Voice\_Ch9400(X)**

**DUT: 211214**

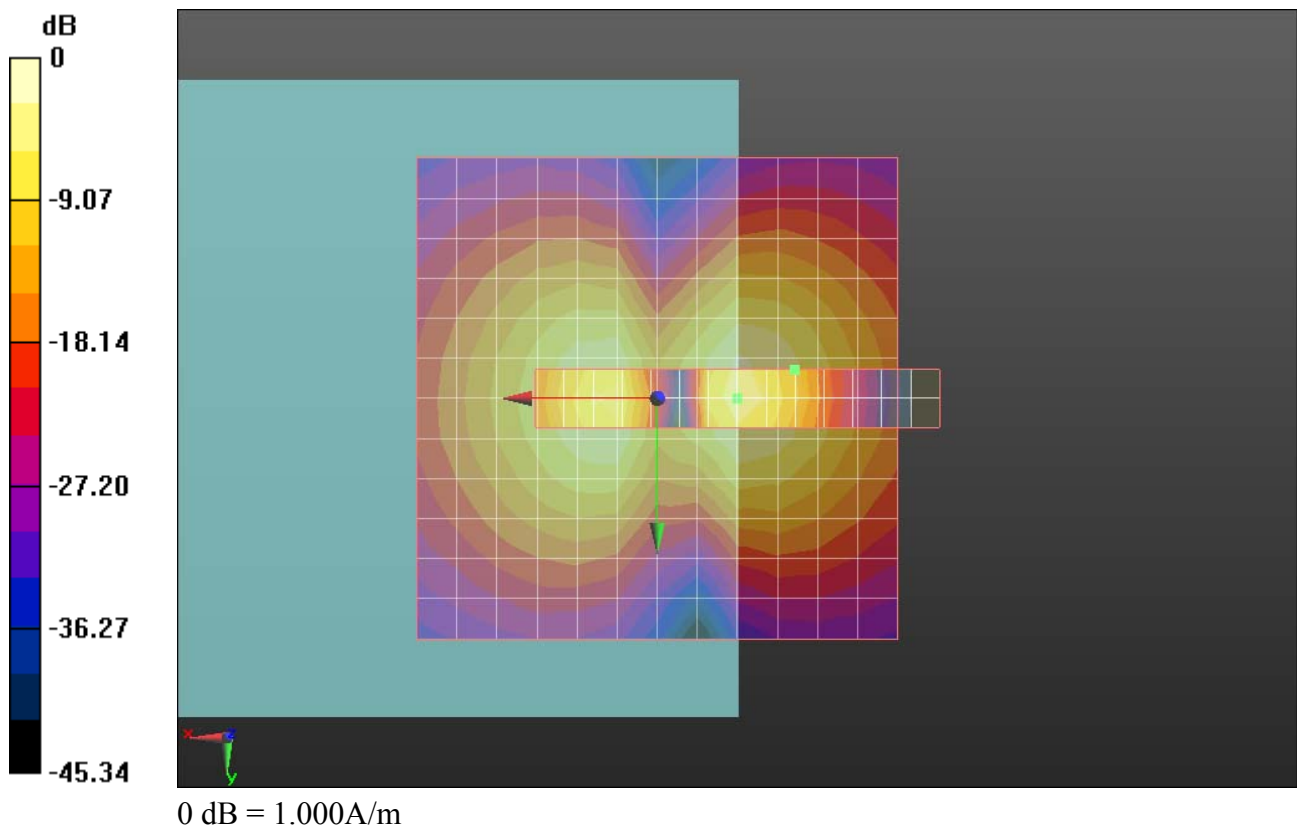
Communication System: UMTS; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

**Ch9400/x (longitudinal) fine 3mm 42 x 6/ABM [HAC-2007] SNR(x,y,z) (15x3x1):**

ABM1/ABM2 = 39.17 dB  
ABM1 comp = -5.08 dB A/m  
Location: -14.3, -3, 3.7 mm



### #11 HAC T-Coil\_WCDMA II\_Voice\_Ch9400(Y)

**DUT: 211214**

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/m<sup>3</sup>  
Ambient Temperature : 23.5 °C

**DASY5 Configuration:**

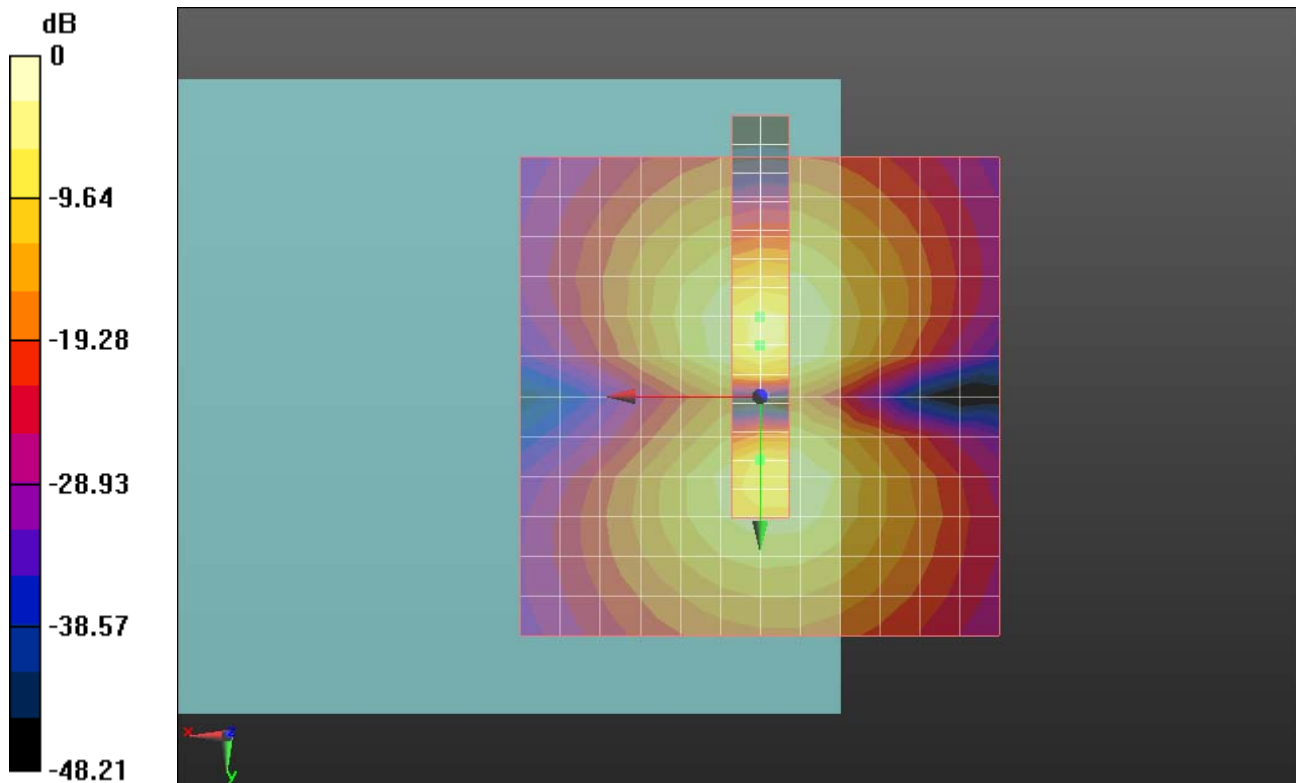
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

### Ch9400/y (transversal) fine 3mm 6 x 42/ABM [HAC-2007] SNR(x,y,z) (3x15x1):

ABM1/ABM2 = 38.75 dB

ABM1 comp = -3.75 dB A/m

Location: 0, 6.7, 3.7 mm



0 dB = 1.000A/m

### #12 HAC T-Coil\_WCDMA II\_Voice\_Ch9538(Z)

**DUT: 211214**

Communication System: UMTS; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

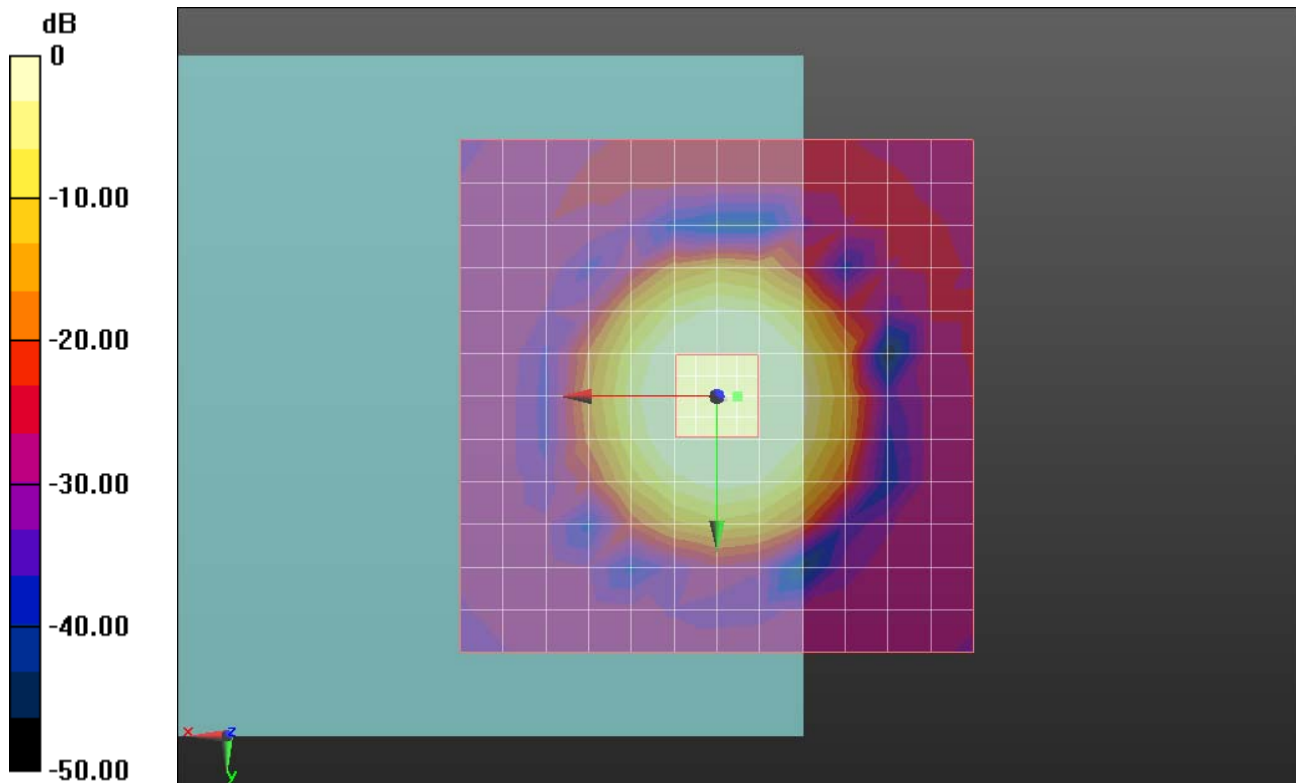
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

### Ch9538/z (axial) fine 2mm 8 x 8/ABM [HAC-2007] SNR(x,y,z) (5x5x1):

ABM1/ABM2 = 47.18 dB

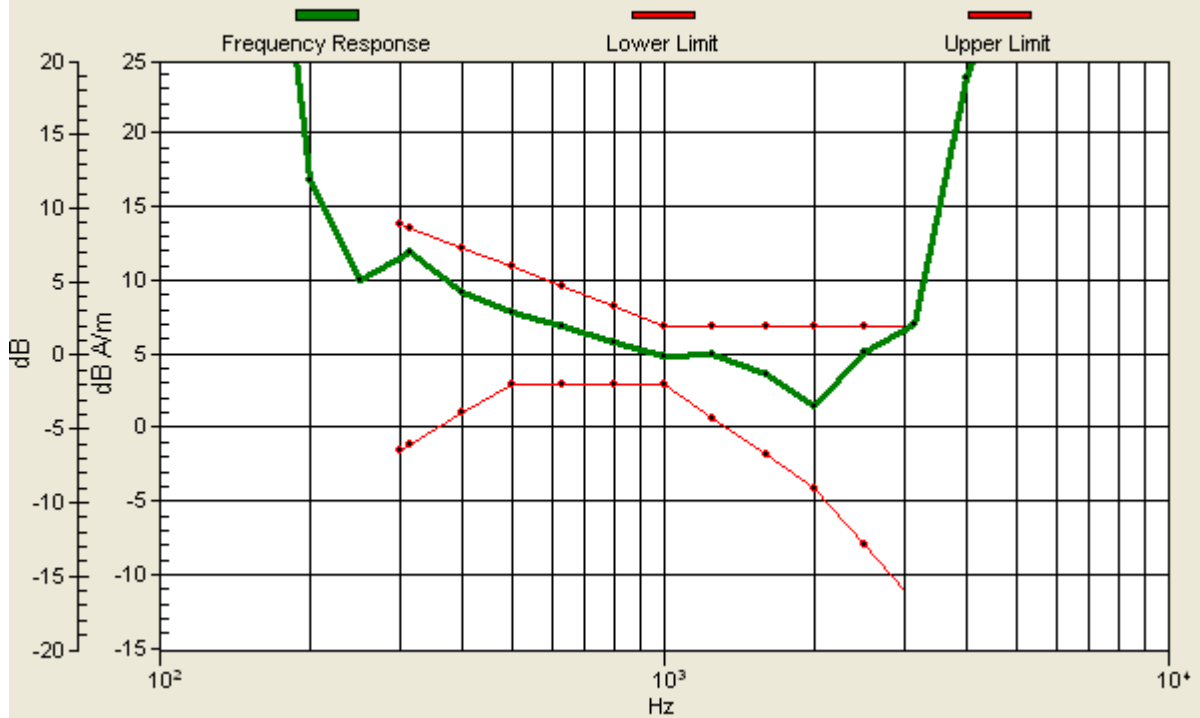
ABM1 comp = 7.00 dB A/m

Location: -2, 0, 3.7 mm



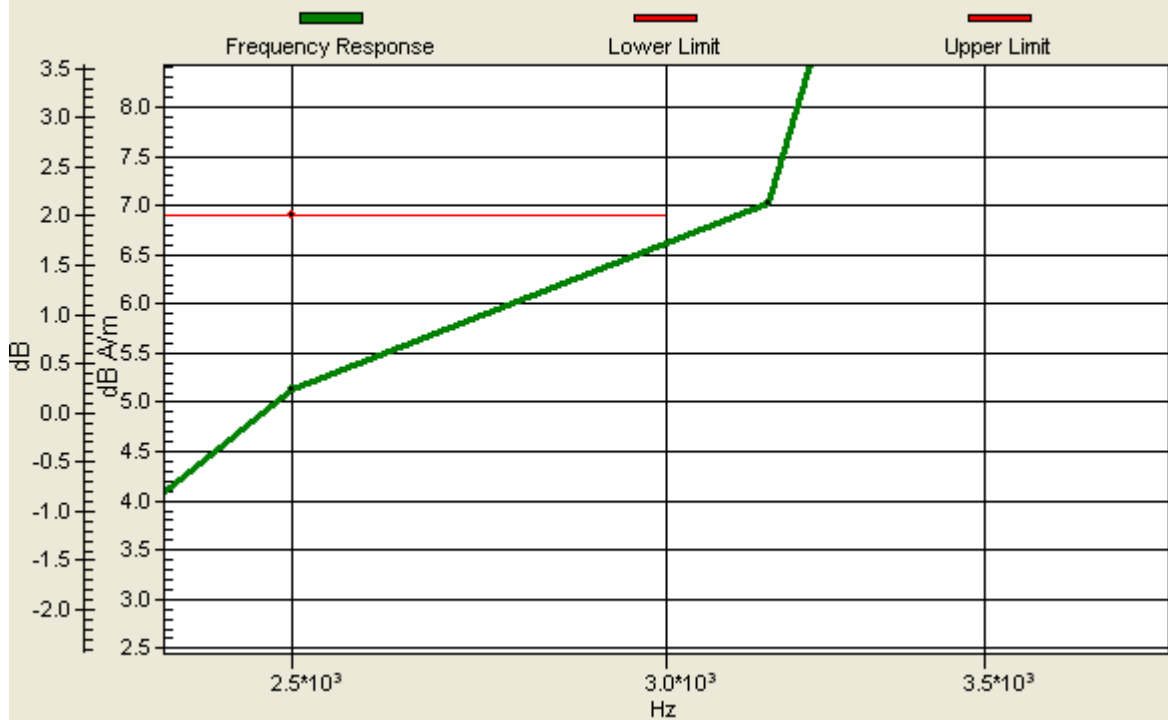
### Ch9538/z (axial) wideband at best S/N/ABM [HAC-2007] Freq Resp(x,y,z,f)

Loc: -2, 0, 3.7 mm Diff: 0.31dB



### Ch9538/z (axial) wideband at best S/N/ABM [HAC-2007] Freq Resp(x,y,z,f)

Loc: -2, 0, 3.7 mm Diff: 0.31dB



### #12 HAC T-Coil\_WCDMA II\_Voice\_Ch9538(X)

**DUT: 211214**

Communication System: UMTS; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

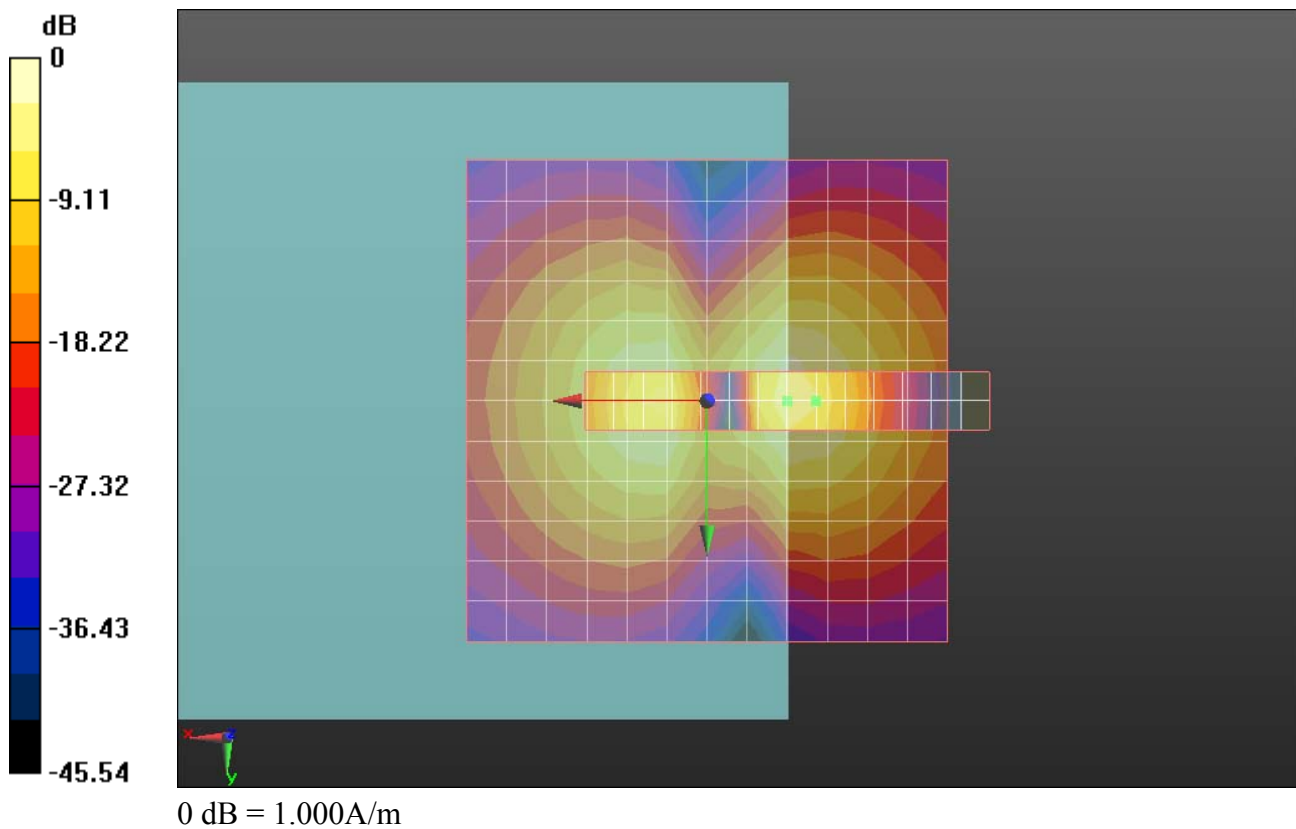
- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

### Ch9538/x (longitudinal) fine 3mm 42 x 6/ABM [HAC-2007] SNR(x,y,z) (15x3x1):

ABM1/ABM2 = 39.52 dB

ABM1 comp = -2.42 dB A/m

Location: -11.3, 0, 3.7 mm



### #12 HAC T-Coil\_WCDMA II\_Voice\_Ch9538(Y)

**DUT: 211214**

Communication System: UMTS; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3067; ; Calibrated: 2011-12-8
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

### Ch9538/y (transversal) fine 3mm 6 x 42/ABM [HAC-2007] SNR(x,y,z) (3x15x1):

ABM1/ABM2 = 40.51 dB

ABM1 comp = -3.44 dB A/m

Location: -3, 9.7, 3.7 mm

