



## ***Appendix A. Plots of T-Coil Measurement***

The plots are shown as follows.

**01 HAC T-Coil GSM850\_Voice (speech codec / handset low) \_Ch128(Z)**

Communication System: UID 0, General GSM (0); Frequency: 824.2 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

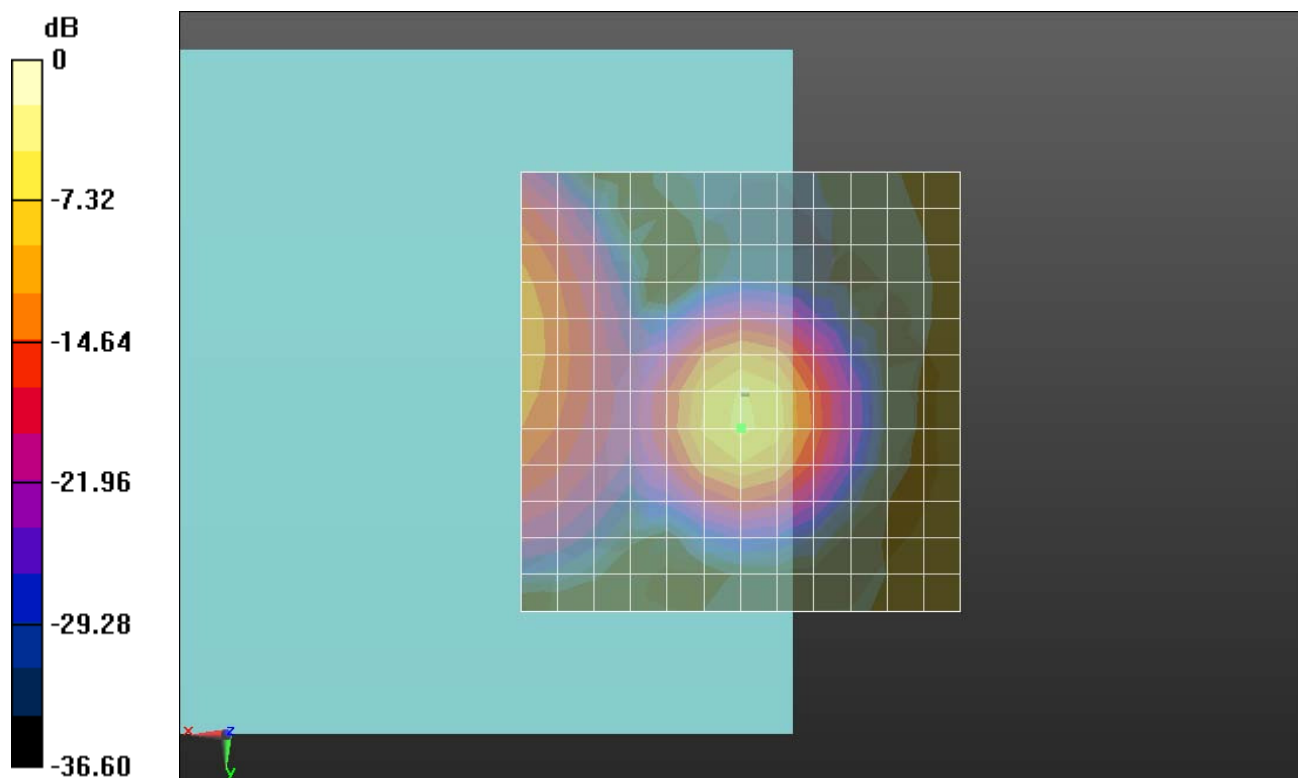
**Ch128/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 23.84 dB

ABM1 comp = -6.46 dBA/m

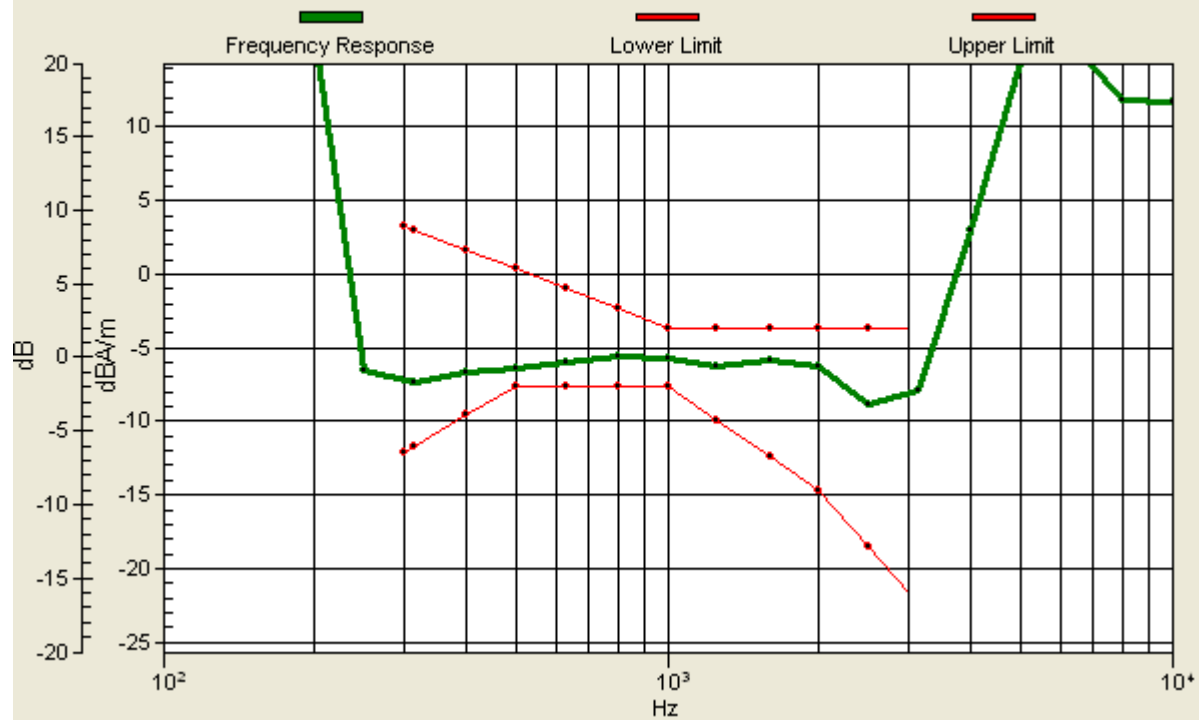
Location: 0, 4.2, 3.7 mm



0 dB = 1.000 A/m = 0.00 dBA/m

# Ch128/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: 0, 4.2, 3.7 mm Diff: 1.3dB



**01 HAC T-Coil GSM850\_Voice (speech codec / handset low) \_Ch128(Y)**

Communication System: UID 0, General GSM (0); Frequency: 824.2 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 23.4 °C

**DASY5 Configuration:**

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

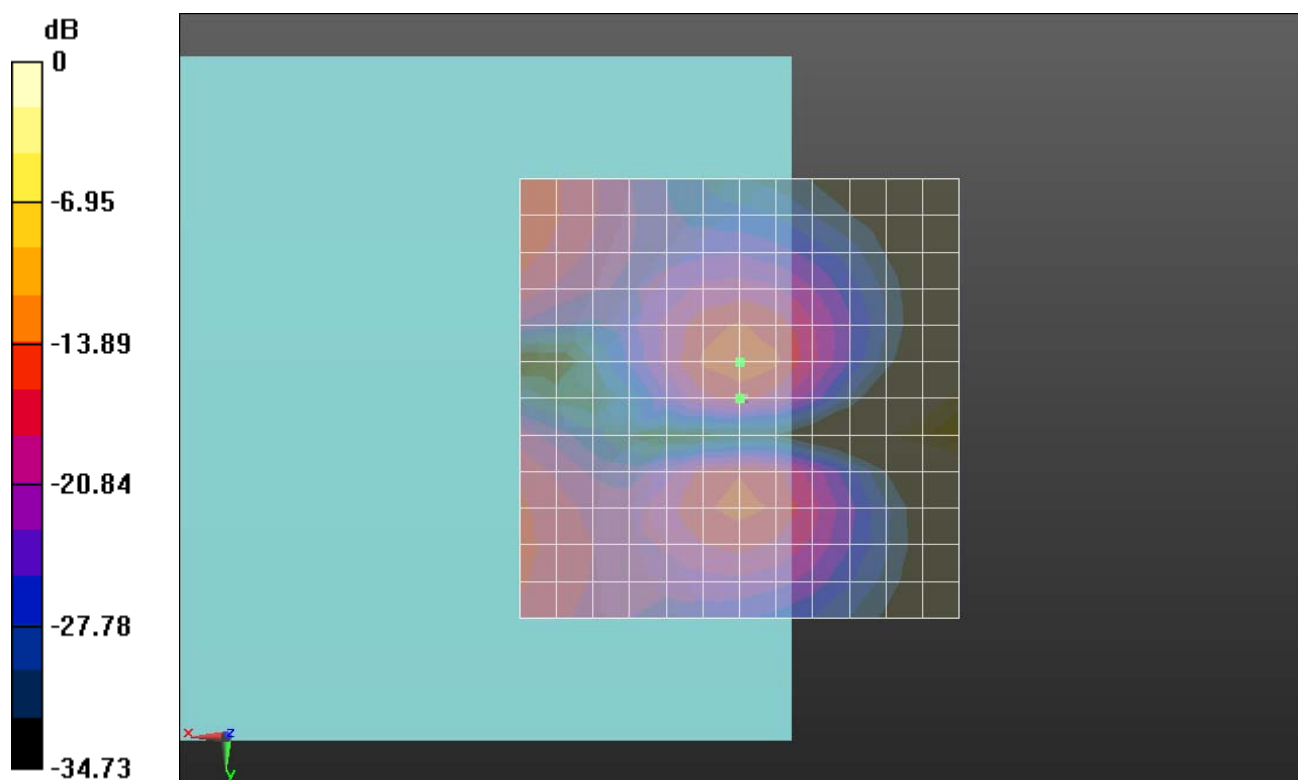
**Ch128/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:**

dx=10mm, dy=10mm

ABM1/ABM2 = 23.86 dB

ABM1 comp = -17.45 dBA/m

Location: 0, 0, 3.7 mm



**02 HAC T-Coil GSM850\_Voice (speech codec / handset low) \_Ch189(Z)**

Communication System: UID 0, General GSM (0); Frequency: 836.4 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

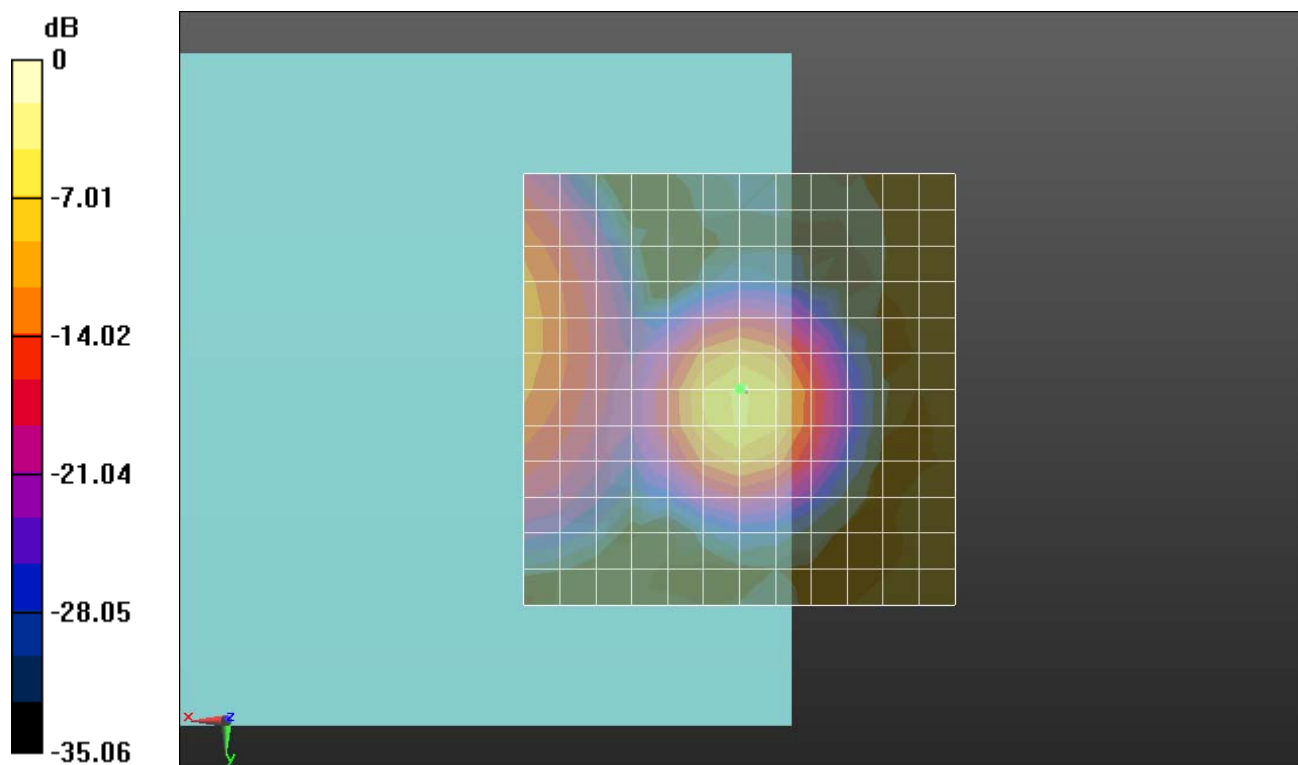
**Ch189/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

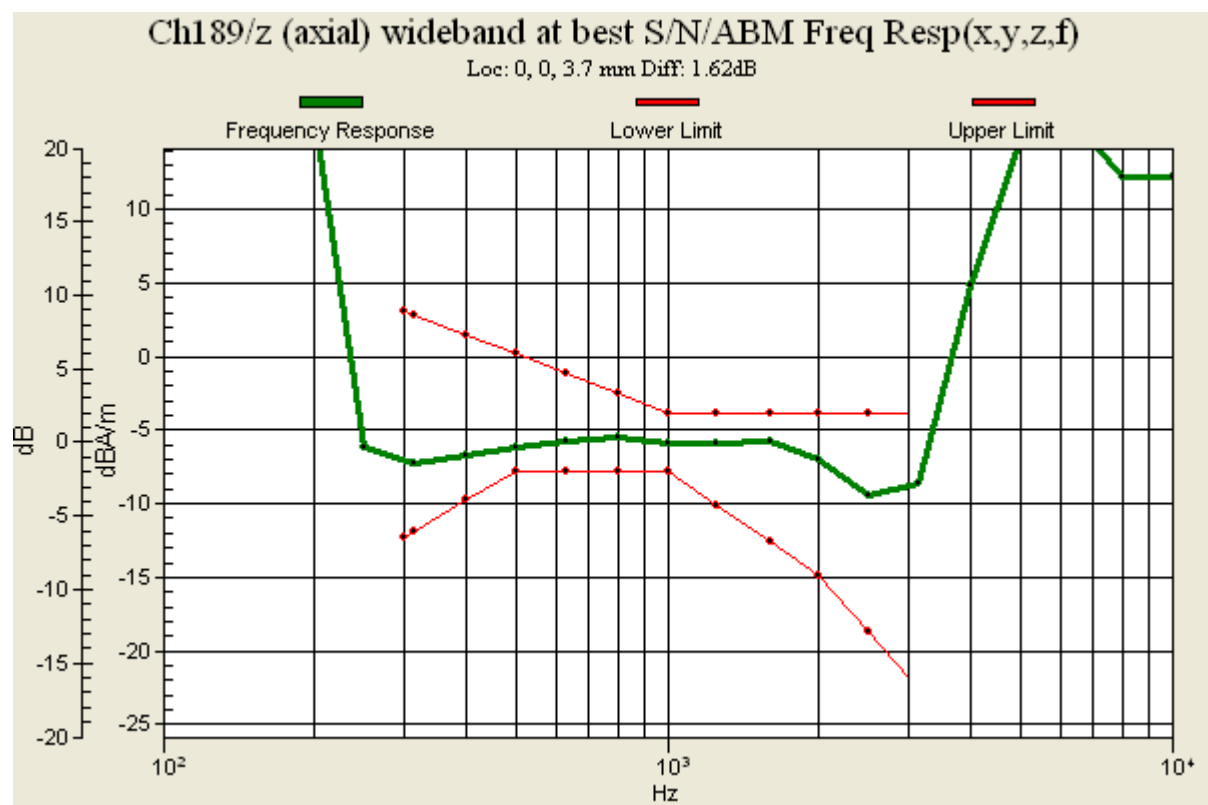
ABM1/ABM2 = 23.71 dB

ABM1 comp = -6.26 dBA/m

Location: 0, 0, 3.7 mm



0 dB = 1.000 A/m = 0.00 dBA/m



**02 HAC T-Coil GSM850\_Voice (speech codec / handset low) \_Ch189(Y)**

Communication System: UID 0, General GSM (0); Frequency: 836.4 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

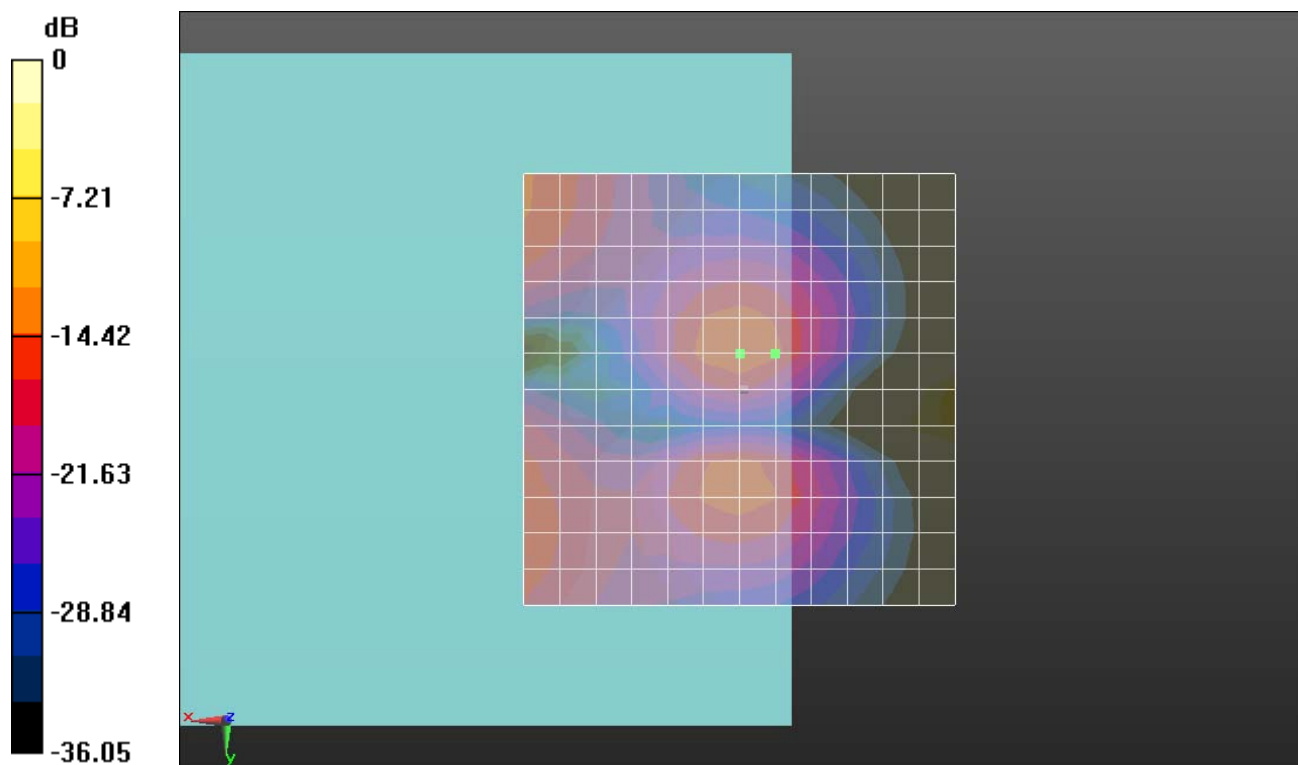
**Ch189/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 22.19 dB

ABM1 comp = -16.07 dBA/m

Location: -4.2, -4.2, 3.7 mm



0 dB = 1.000 A/m = 0.00 dBA/m

**03 HAC T-Coil GSM850\_Voice (speech codec / handset low) \_Ch251(Z)**

Communication System: UID 0, General GSM (0); Frequency: 848.8 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 23.4 °C

**DASY5 Configuration:**

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

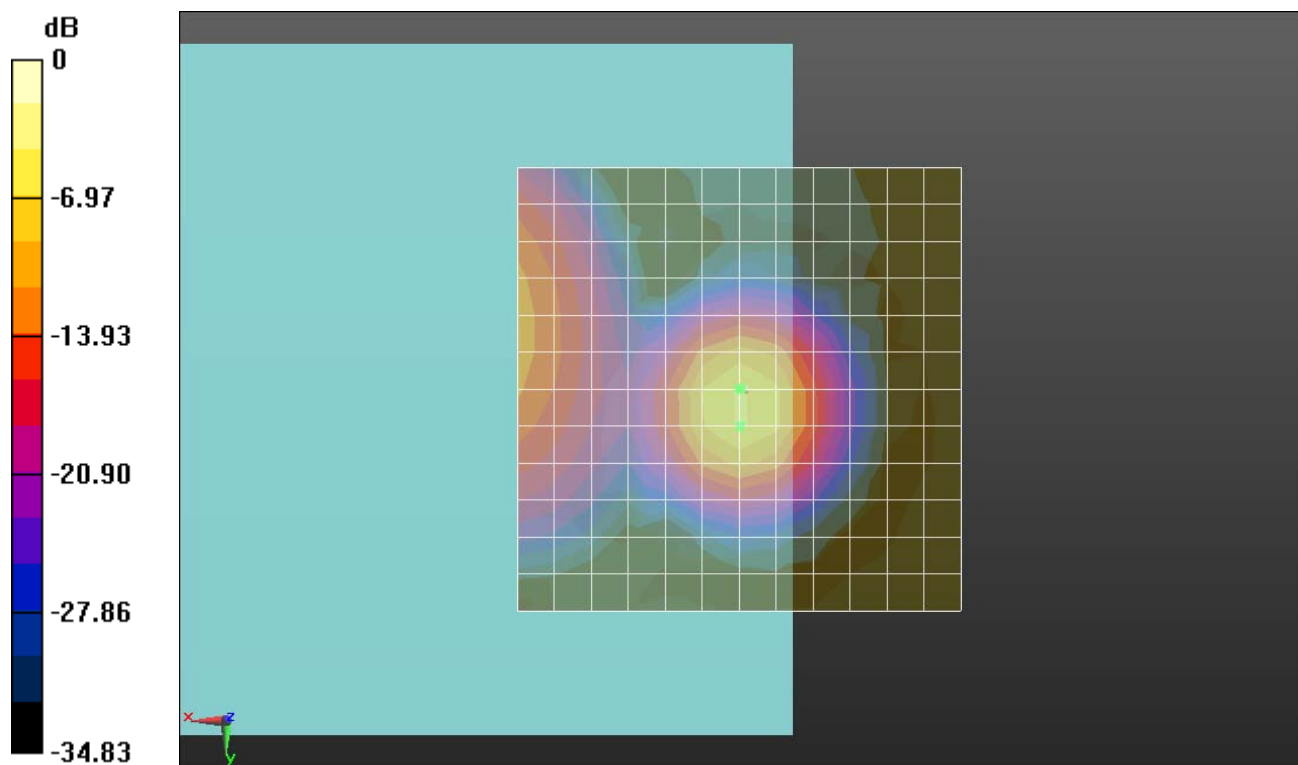
**Ch251/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:**

dx=10mm, dy=10mm

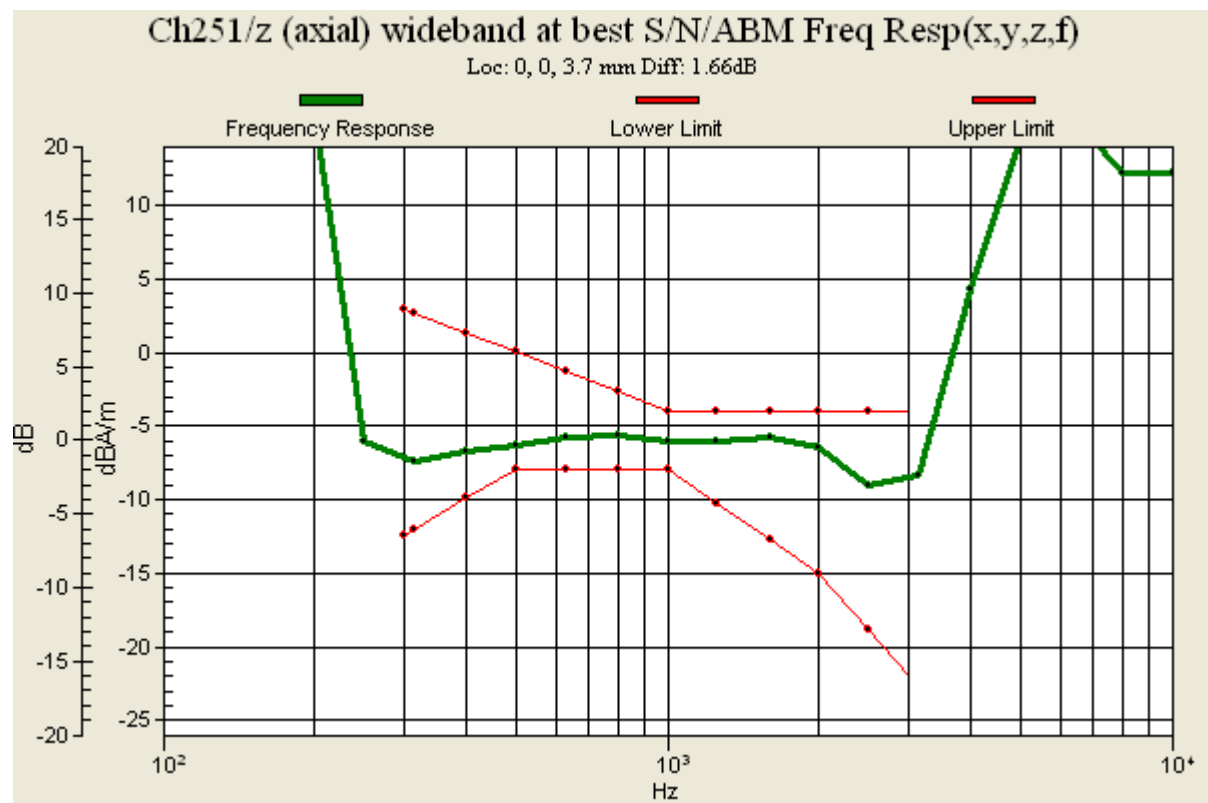
ABM1/ABM2 = 23.48 dB

ABM1 comp = -6.53 dBA/m

Location: 0, 0, 3.7 mm



0 dB = 1.000 A/m = 0.00 dBA/m



**03 HAC T-Coil GSM850\_Voice (speech codec / handset low) \_Ch251(Y)**

Communication System: UID 0, General GSM (0); Frequency: 848.8 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

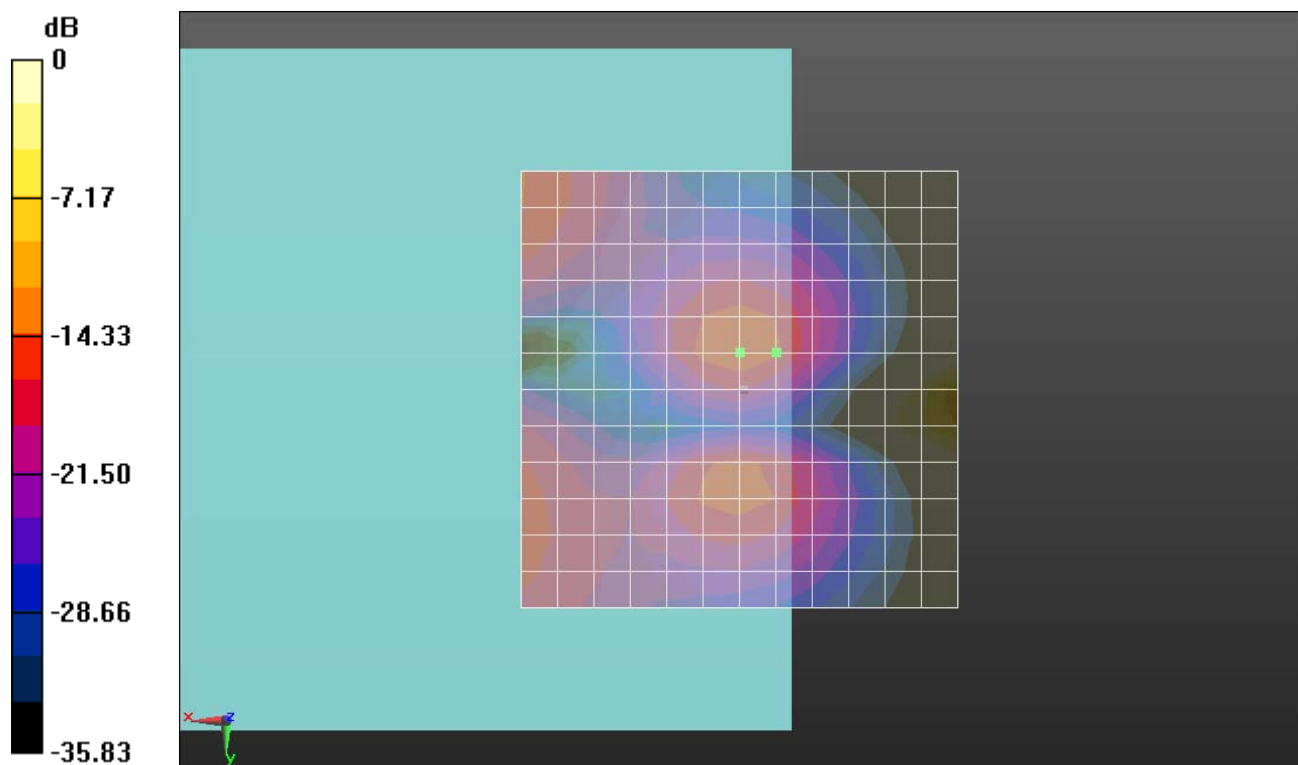
**Ch251/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 21.49 dB

ABM1 comp = -16.05 dBA/m

Location: -4.2, -4.2, 3.7 mm



0 dB = 1.000 A/m = 0.00 dBA/m

**04 HAC T-Coil GSM1900\_Voice (speech codec / handset low) \_Ch512(Z)**

Communication System: UID 0, General GSM (0); Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 23.4 °C

**DASY5 Configuration:**

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

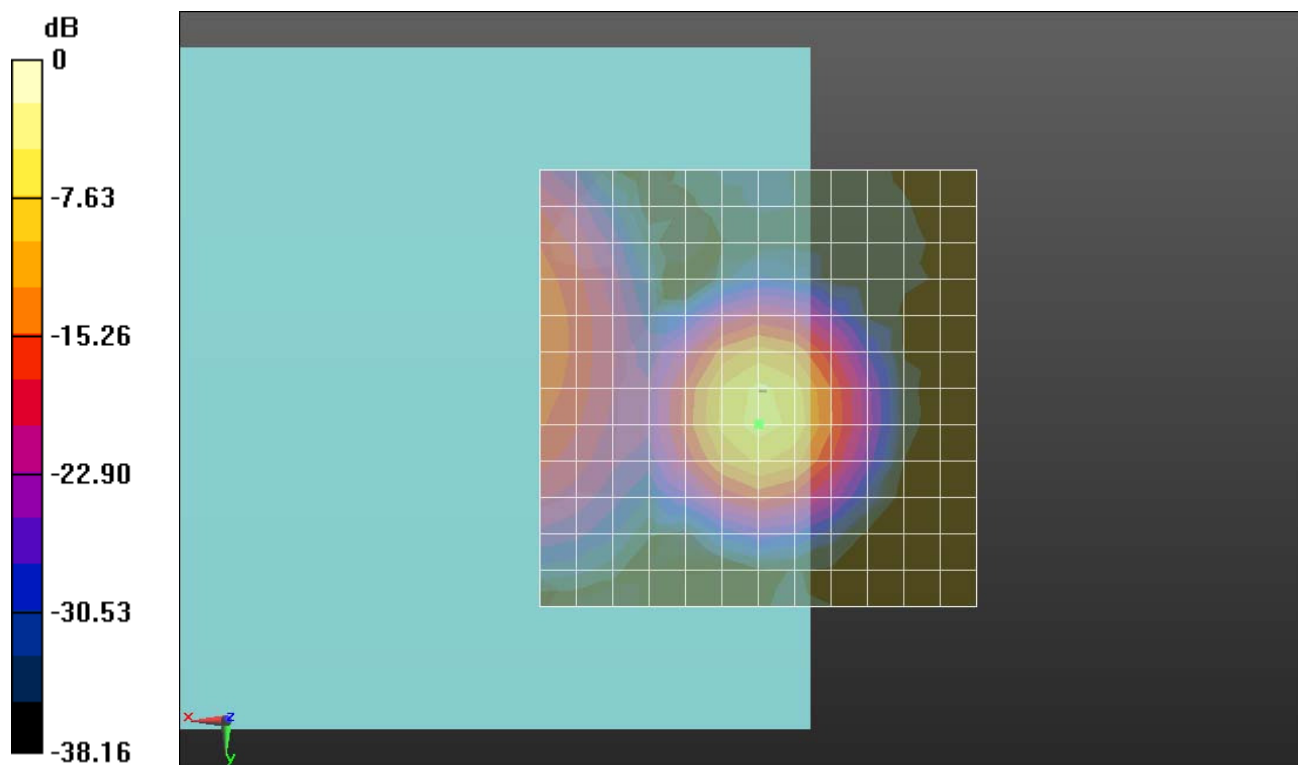
**Ch512/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:**

dx=10mm, dy=10mm

ABM1/ABM2 = 26.79 dB

ABM1 comp = -6.29 dBA/m

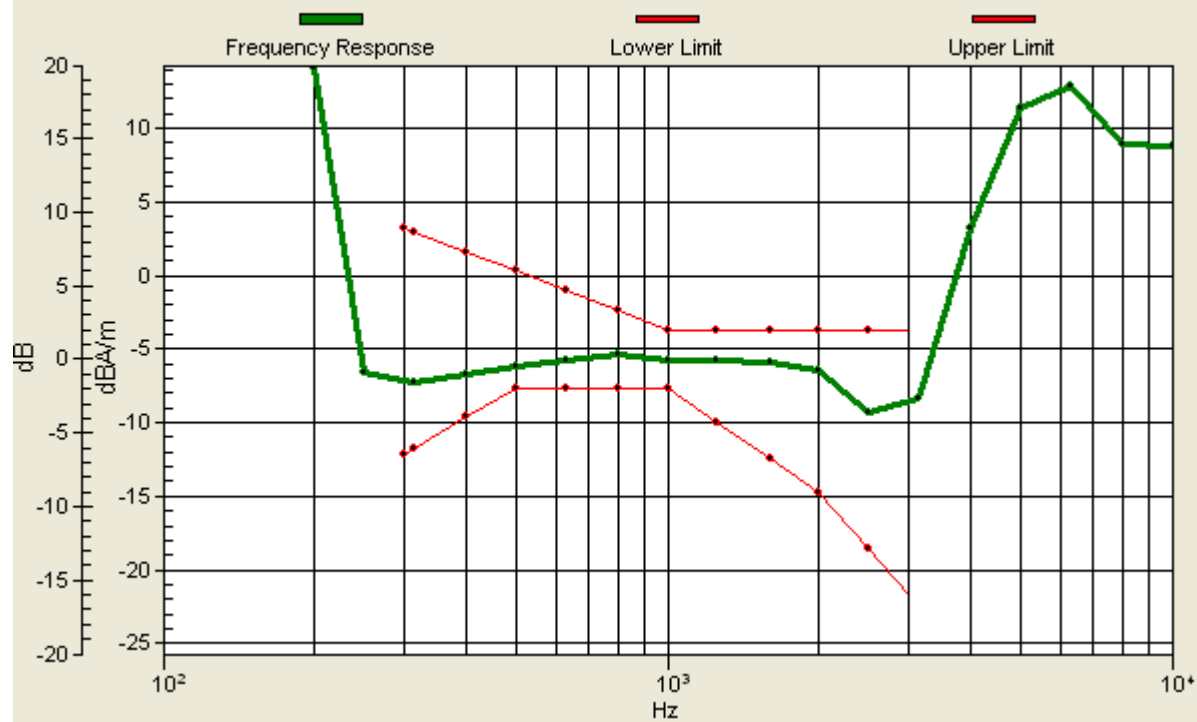
Location: 0, 4.2, 3.7 mm



0 dB = 1.000 A/m = 0.00 dBA/m

# Ch512/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: 0, 4.2, 3.7 mm Diff: 1.49dB



**04 HAC T-Coil GSM1900\_Voice (speech codec / handset low) \_Ch512(Y)**

Communication System: UID 0, General GSM (0); Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

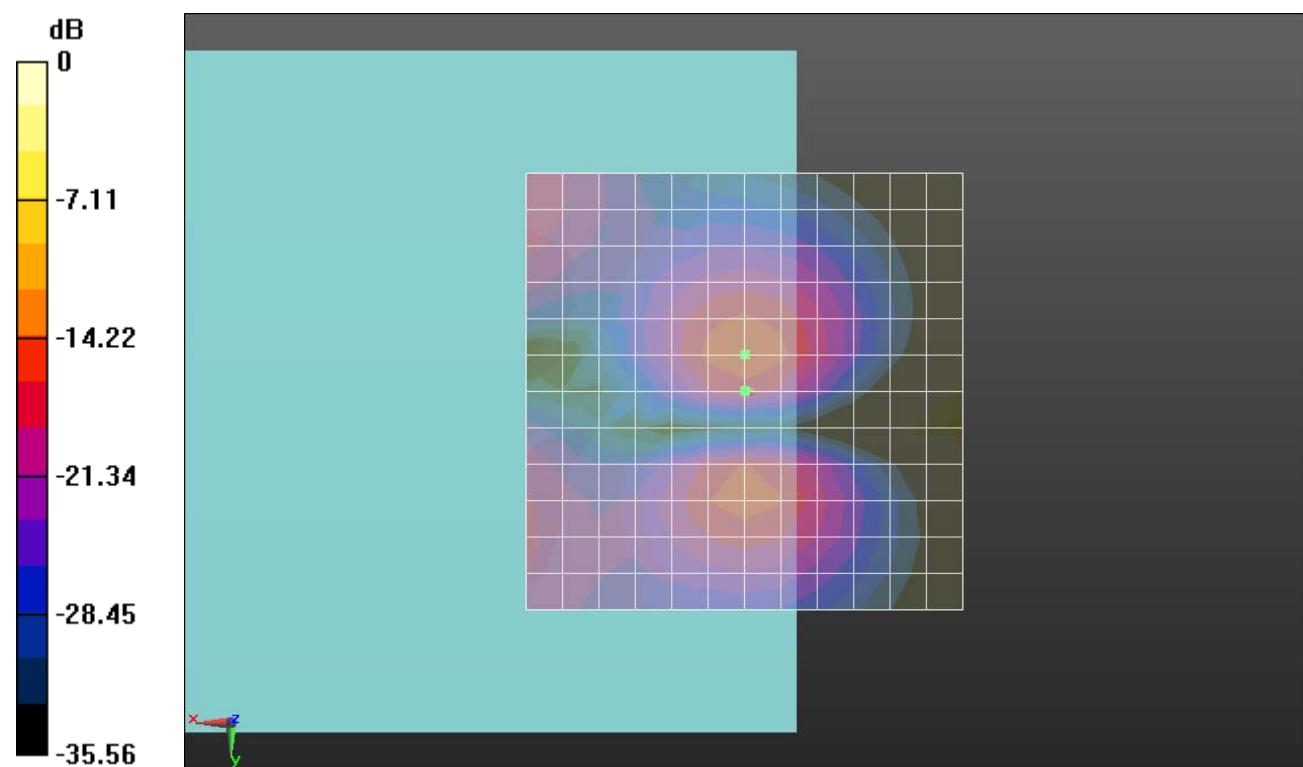
**Ch512/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 25.17 dB

ABM1 comp = -17.51 dBA/m

Location: 0, 0, 3.7 mm



0 dB = 1.000 A/m = 0.00 dBA/m

**05 HAC T-Coil GSM1900\_Voice (speech codec / handset low) \_Ch661(Z)**

Communication System: UID 0, General GSM (0); Frequency: 1880 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 23.4 °C

**DASY5 Configuration:**

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

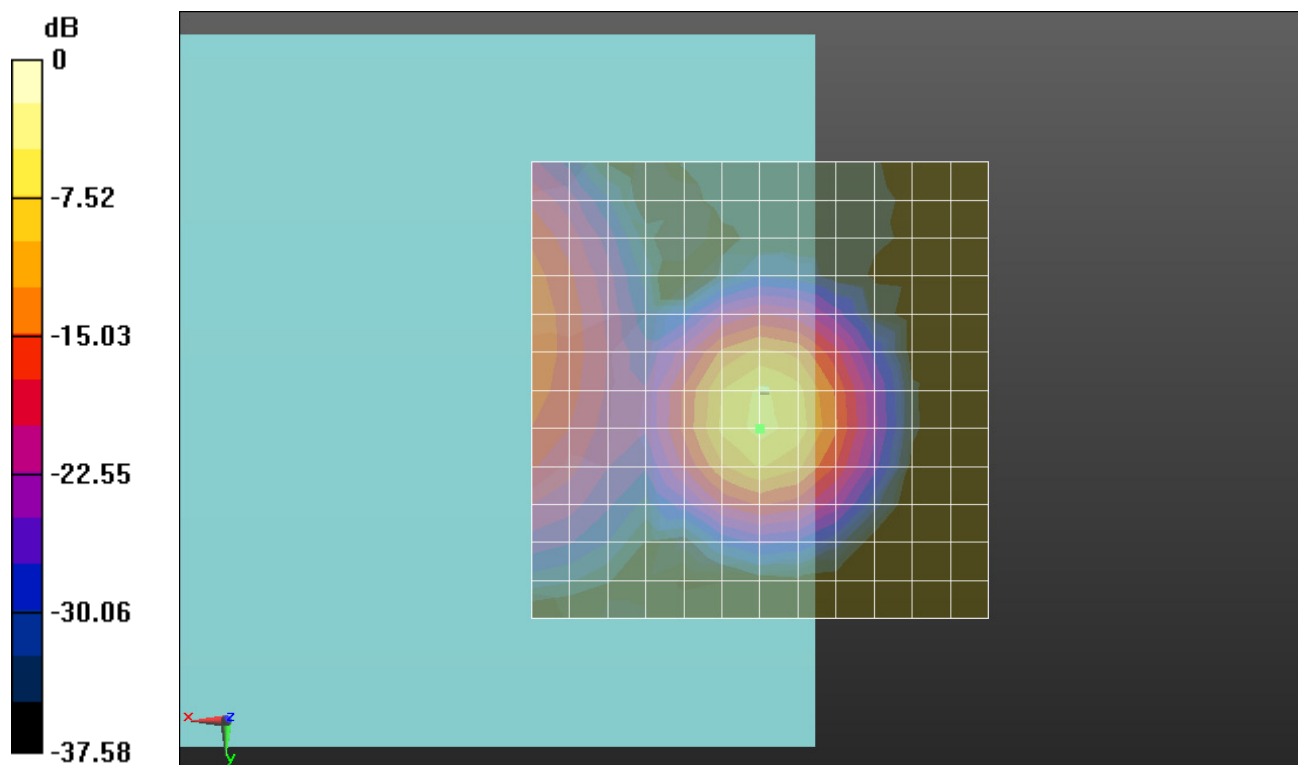
**Ch661/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:**

dx=10mm, dy=10mm

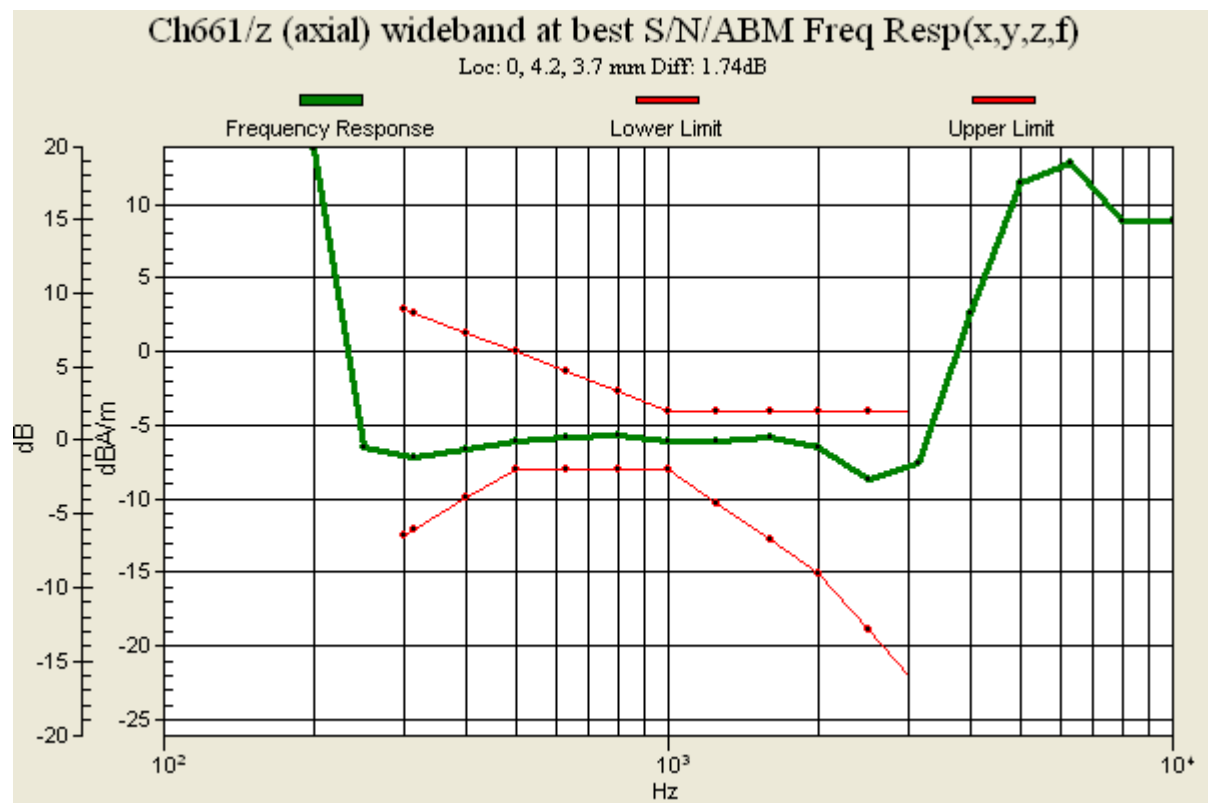
ABM1/ABM2 = 26.74 dB

ABM1 comp = -6.49 dBA/m

Location: 0, 4.2, 3.7 mm



0 dB = 1.000 A/m = 0.00 dBA/m



**05 HAC T-Coil GSM1900\_Voice (speech codec / handset low) \_Ch661(Y)**

Communication System: UID 0, General GSM (0); Frequency: 1880 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 23.4 °C

**DASY5 Configuration:**

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

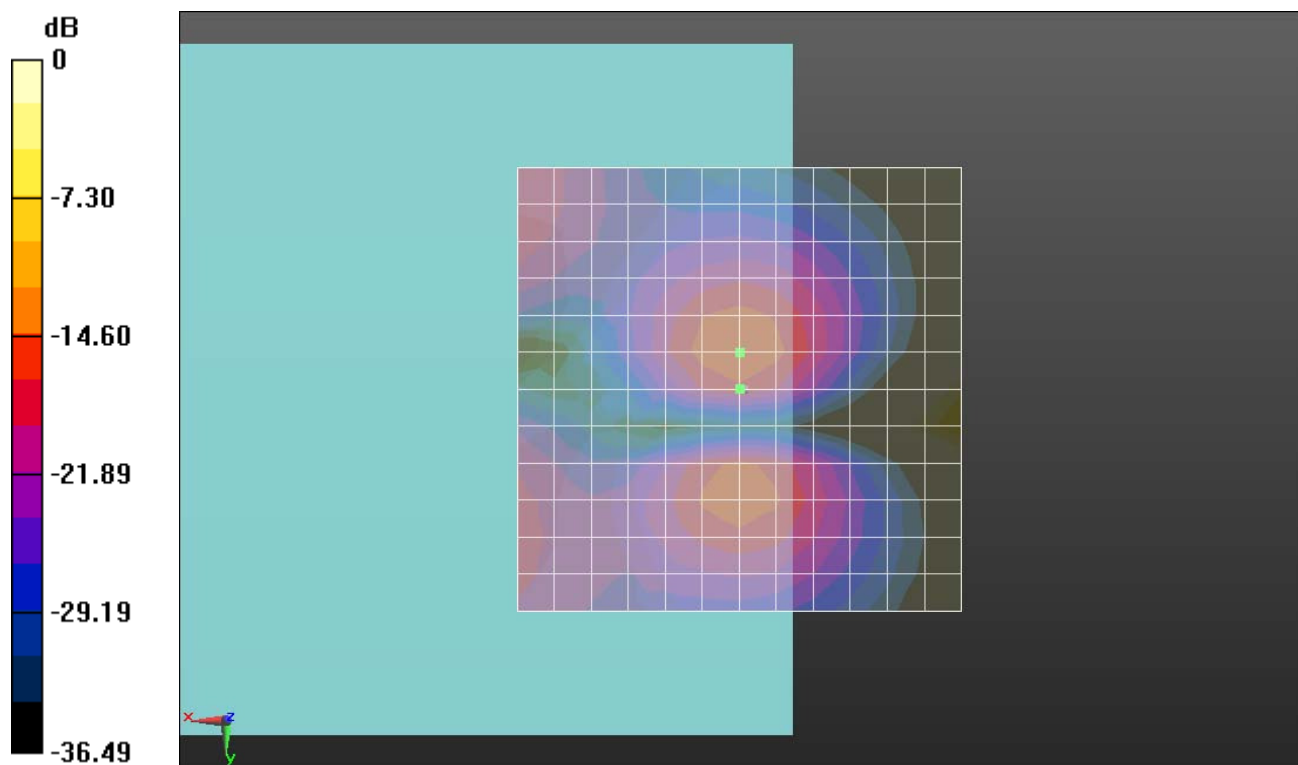
**Ch661/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:**

dx=10mm, dy=10mm

ABM1/ABM2 = 24.32 dB

ABM1 comp = -17.49 dBA/m

Location: 0, 0, 3.7 mm



0 dB = 1.000 A/m = 0.00 dBA/m

**06 HAC T-Coil GSM1900\_Voice (speech codec / handset low) \_Ch810(Z)**

Communication System: UID 0, General GSM (0); Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 23.4 °C

**DASY5 Configuration:**

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

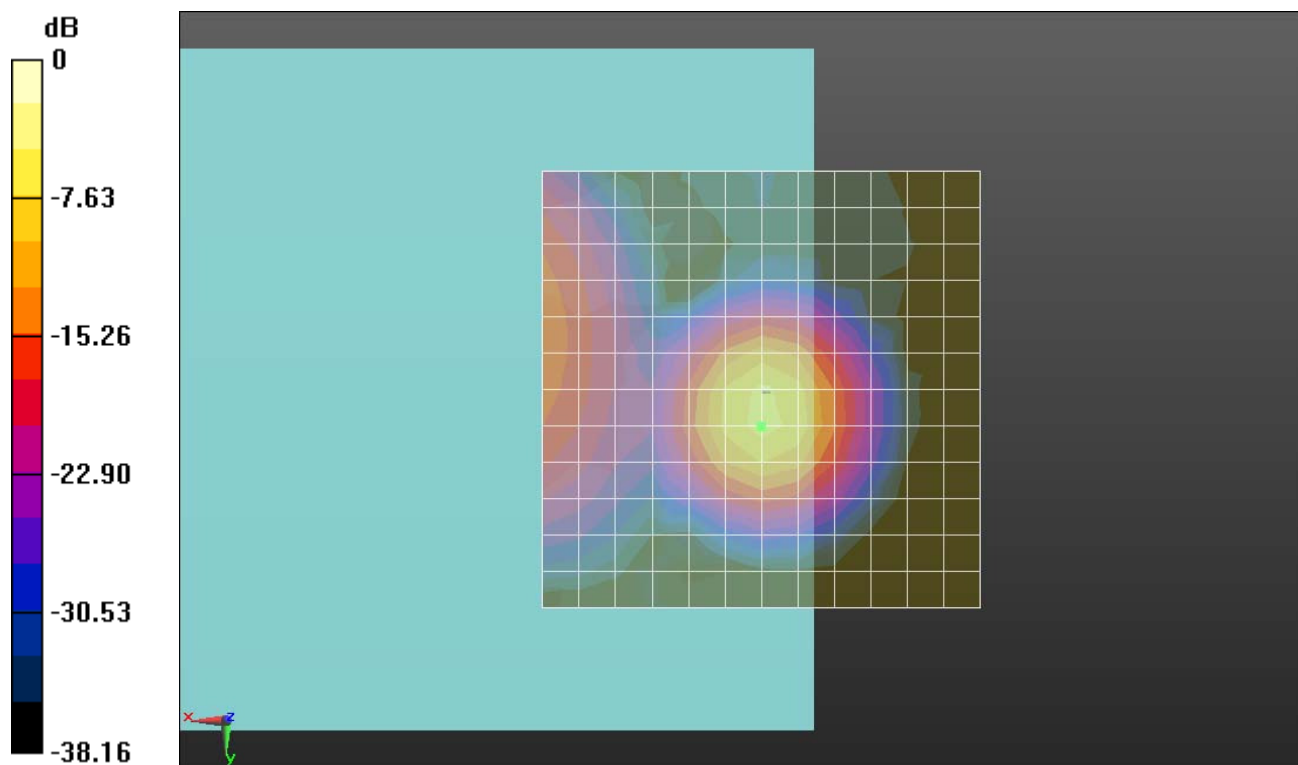
**Ch810/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:**

dx=10mm, dy=10mm

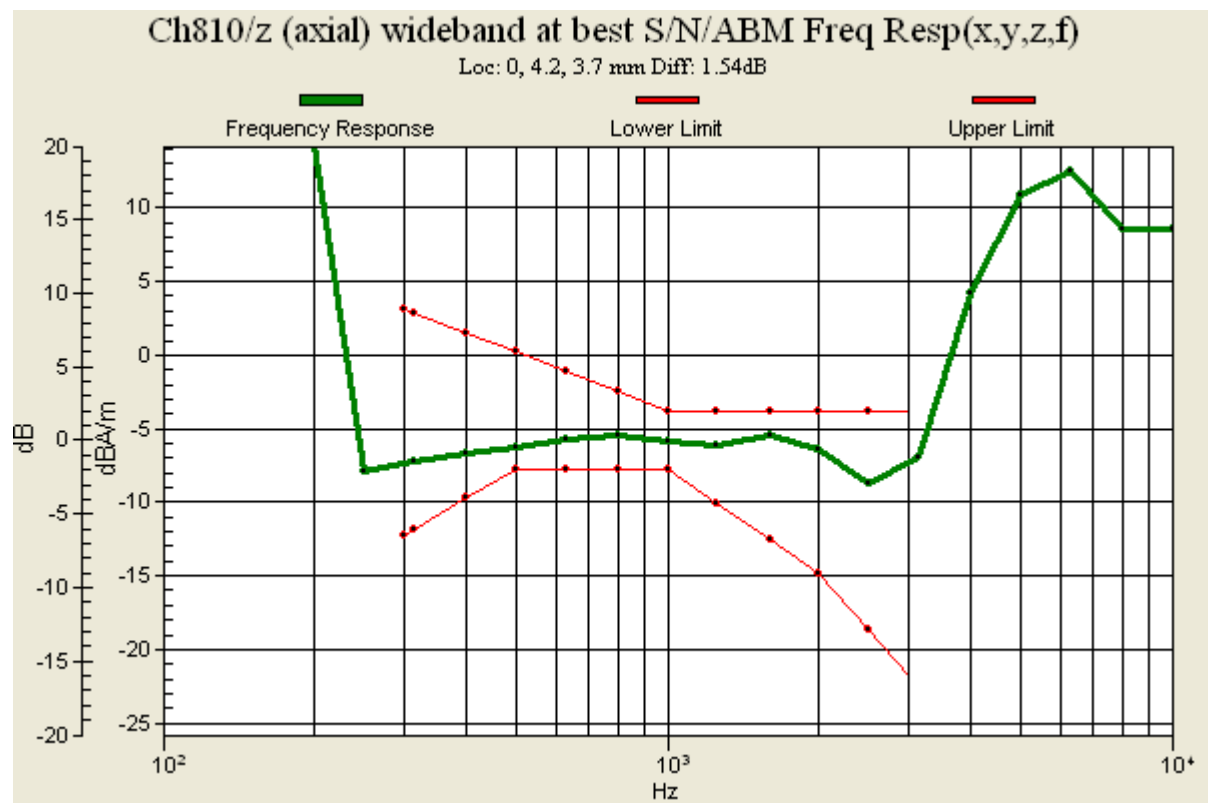
ABM1/ABM2 = 26.98 dB

ABM1 comp = -6.49 dBA/m

Location: 0, 4.2, 3.7 mm



0 dB = 1.000 A/m = 0.00 dBA/m



**06 HAC T-Coil GSM1900\_Voice (speech codec / handset low) \_Ch810(Y)**

Communication System: UID 0, General GSM (0); Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 23.4 °C

**DASY5 Configuration:**

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

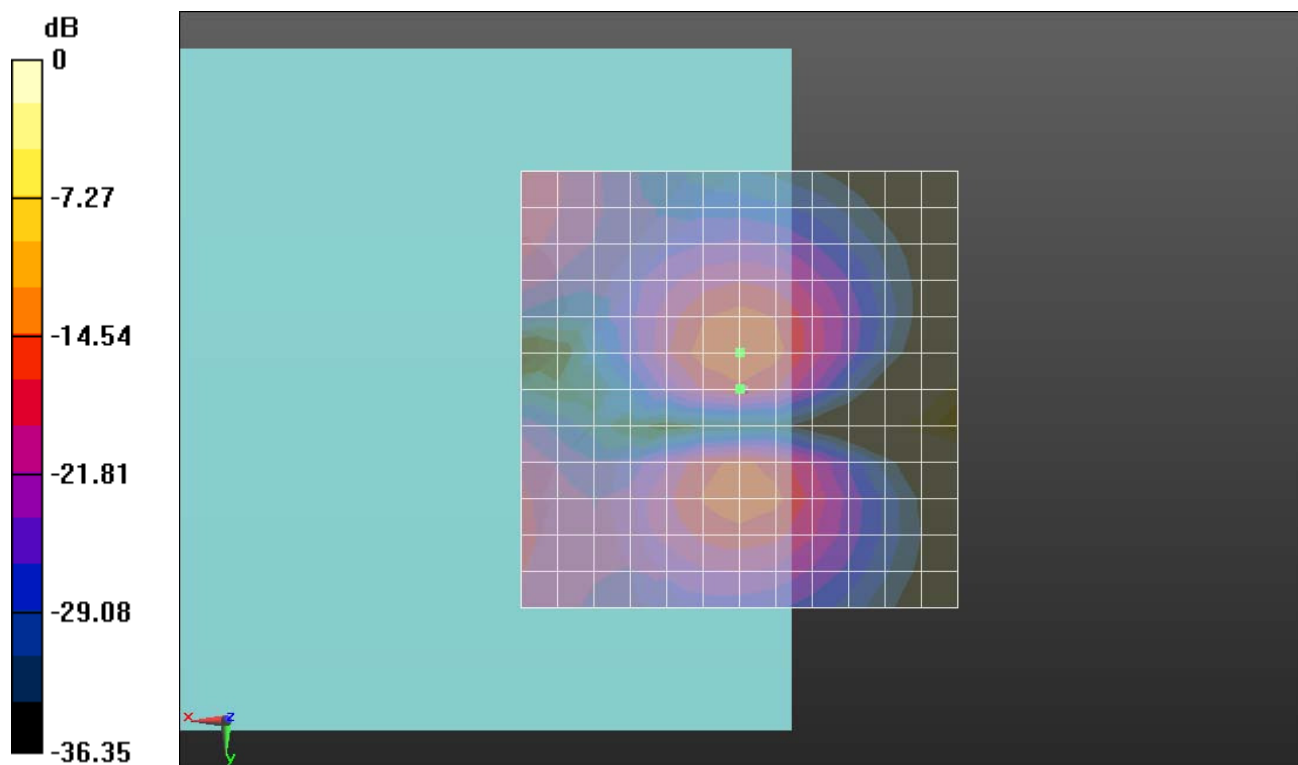
**Ch810/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:**

dx=10mm, dy=10mm

ABM1/ABM2 = 25.20 dB

ABM1 comp = -17.40 dBA/m

Location: 0, 0, 3.7 mm



0 dB = 1.000 A/m = 0.00 dBA/m

**07 HAC T-Coil WCDMA Band V\_Voice (speech codec low)\_Ch4132(Z)**

Communication System: UID 0, UMTS (0); Frequency: 826.4 MHz; Duty Cycle: 1:1

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

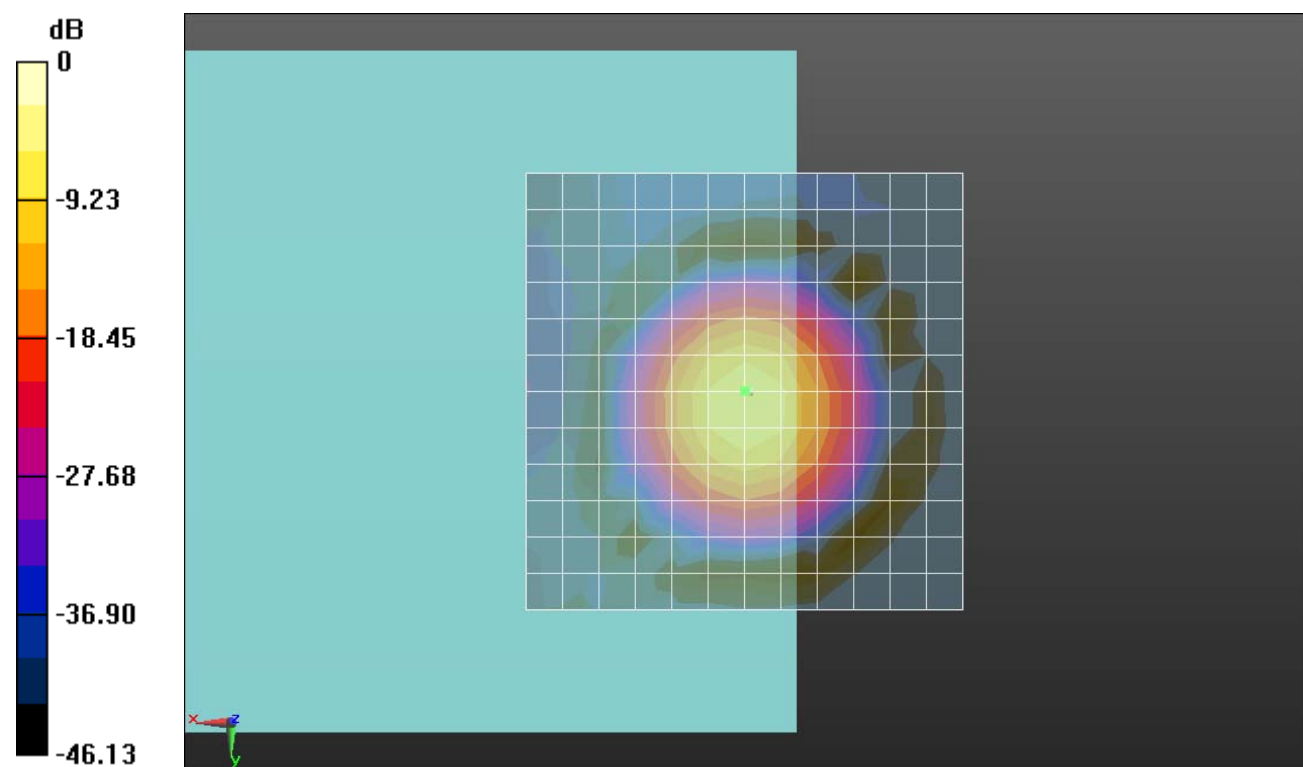
**Ch4132/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 33.33 dB

ABM1 comp = -6.04 dBA/m

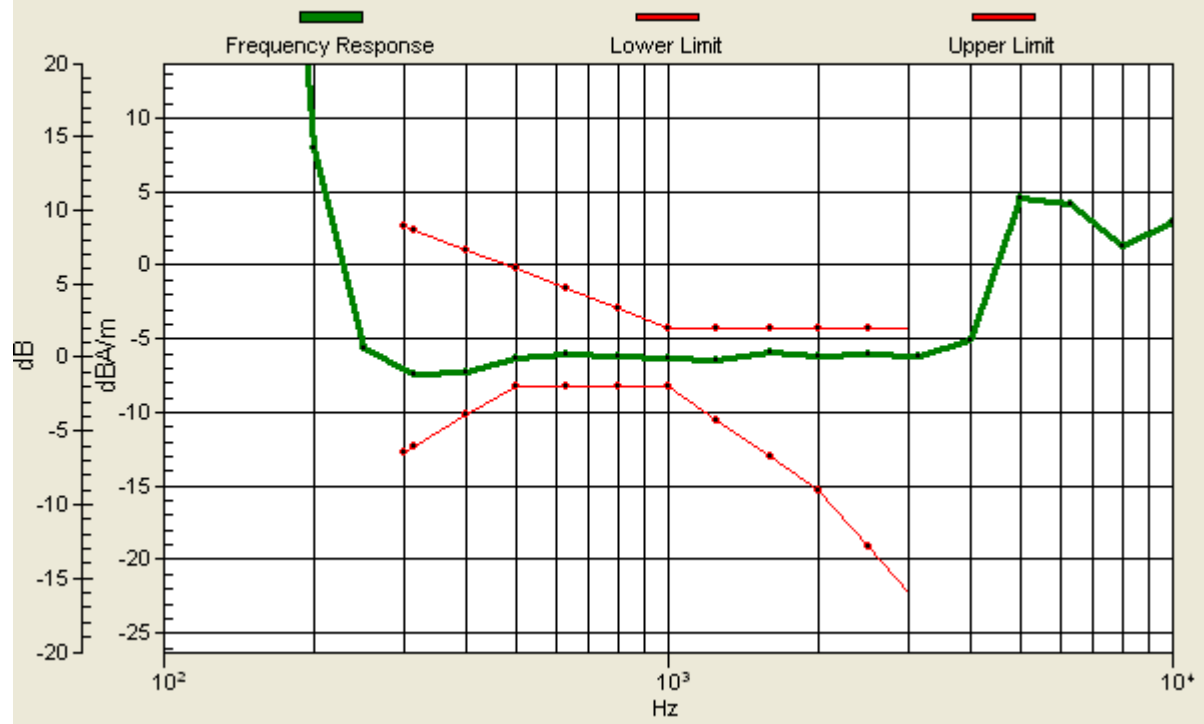
Location: 0, 0, 3.7 mm



0 dB = 1.000 A/m = 0.00 dBA/m

# Ch4132/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: 0, 0, 3.7 mm Diff: 1.7dB



**07 HAC T-Coil WCDMA Band V\_Voice (speech codec low)\_Ch4132(Y)**

Communication System: UID 0, UMTS (0); Frequency: 826.4 MHz; Duty Cycle: 1:1

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

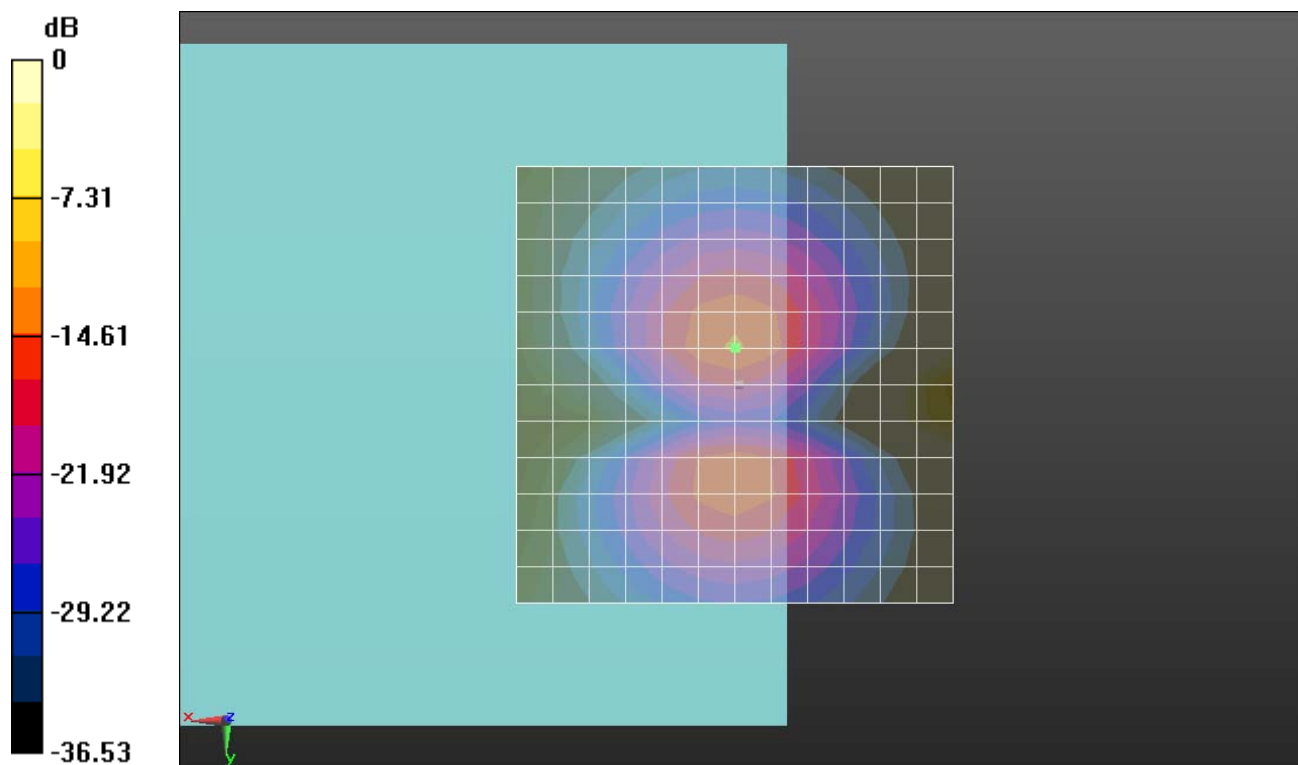
**Ch4132/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 28.59 dB

ABM1 comp = -14.11 dBA/m

Location: 0, -4.2, 3.7 mm



**08 HAC T-Coil WCDMA Band V\_Voice (speech codec low)\_Ch4182(Z)**

Communication System: UID 0, UMTS (0); Frequency: 836.4 MHz; Duty Cycle: 1:1

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

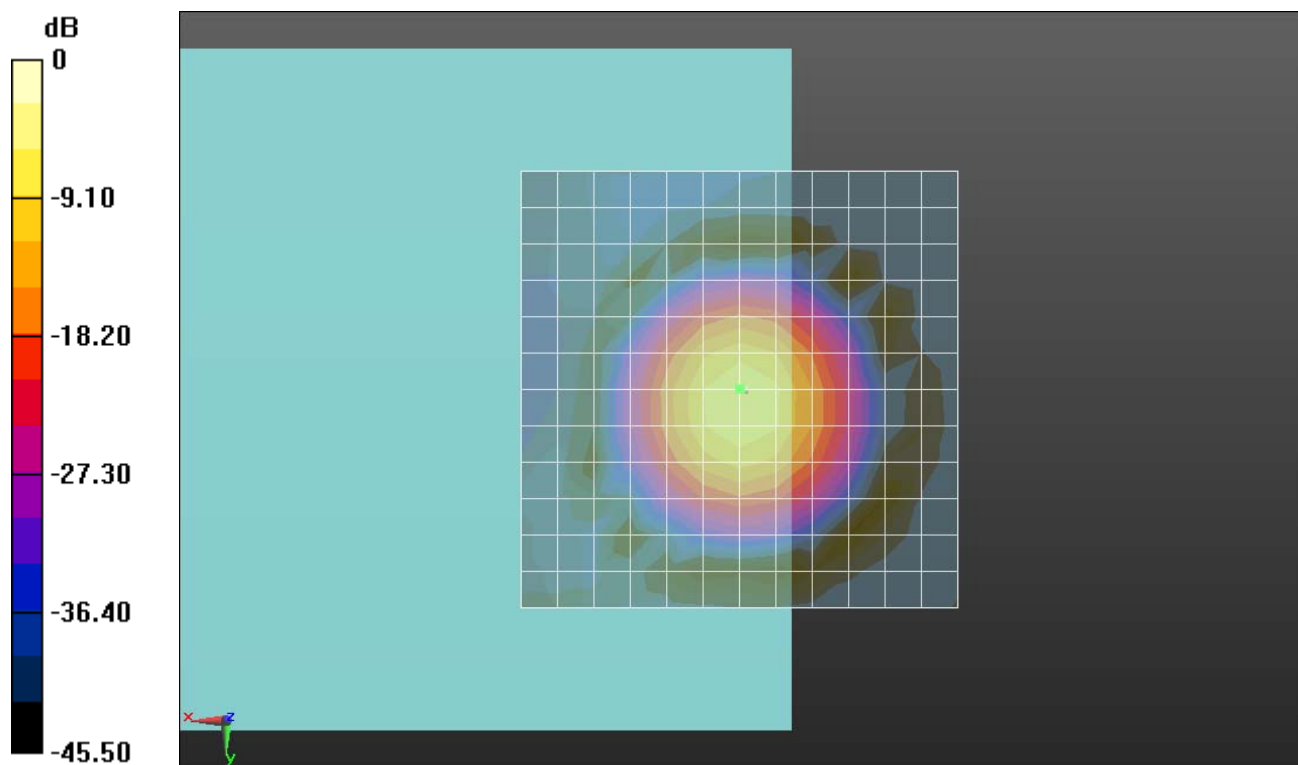
**Ch4182/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 32.65 dB

ABM1 comp = -6.14 dBA/m

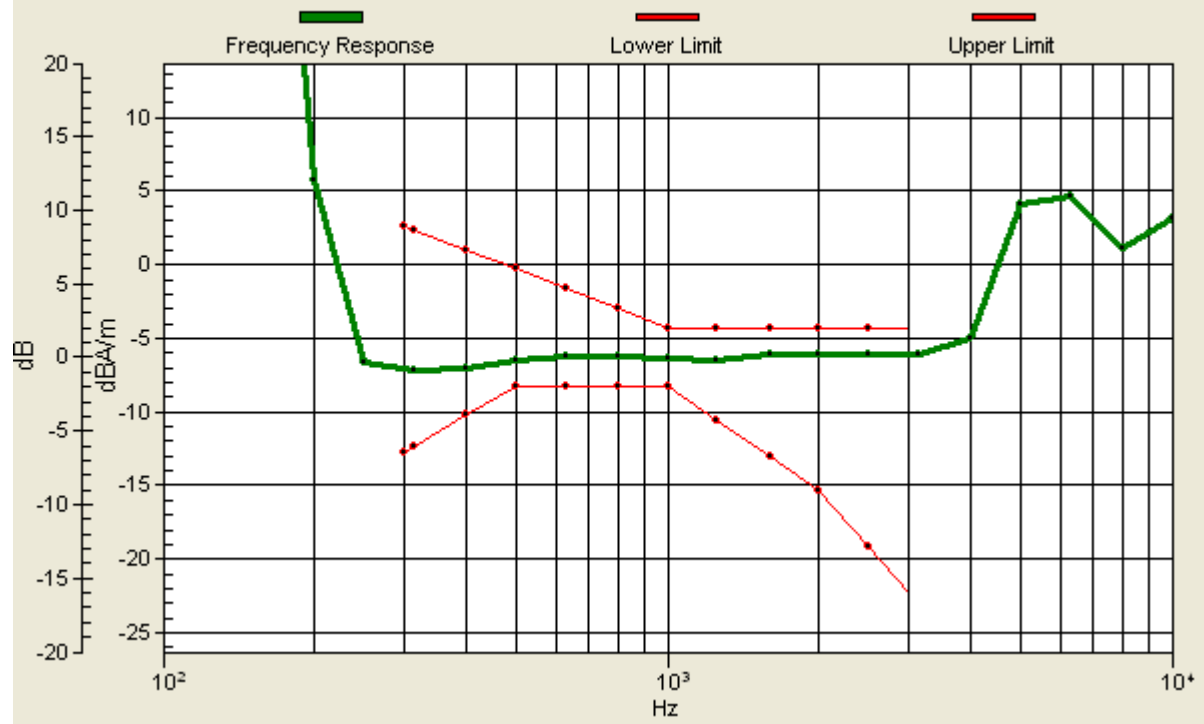
Location: 0, 0, 3.7 mm



0 dB = 1.000 A/m = 0.00 dBA/m

# Ch4182/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: 0, 0, 3.7 mm Diff: 1.79dB



**08 HAC T-Coil WCDMA Band V\_Voice (speech codec low)\_Ch4182(Y)**

Communication System: UID 0, UMTS (0); Frequency: 836.4 MHz; Duty Cycle: 1:1

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

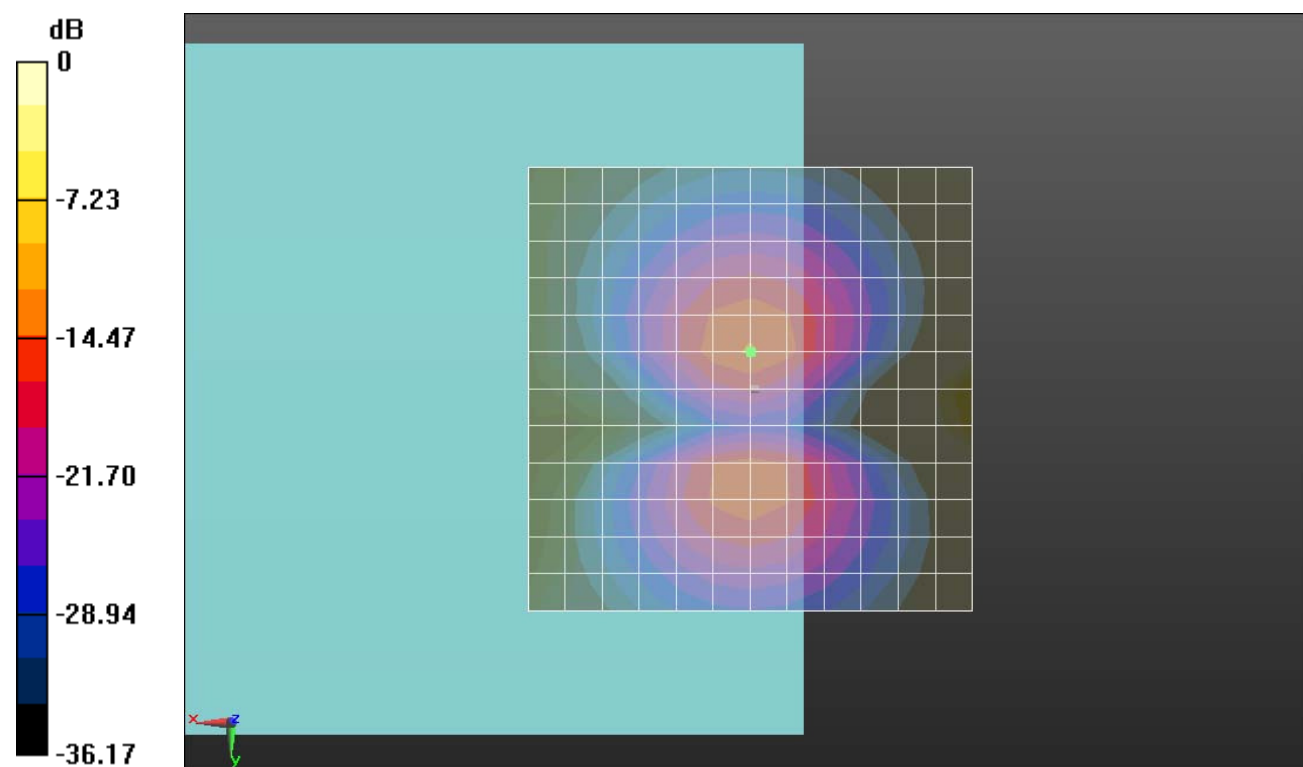
**Ch4182/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 28.75 dB

ABM1 comp = -14.09 dBA/m

Location: 0, -4.2, 3.7 mm



0 dB = 1.000 A/m = 0.00 dBA/m

**09 HAC T-Coil WCDMA Band V\_Voice (speech codec low)\_Ch4233(Z)**

Communication System: UID 0, UMTS (0); Frequency: 846.6 MHz; Duty Cycle: 1:1

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

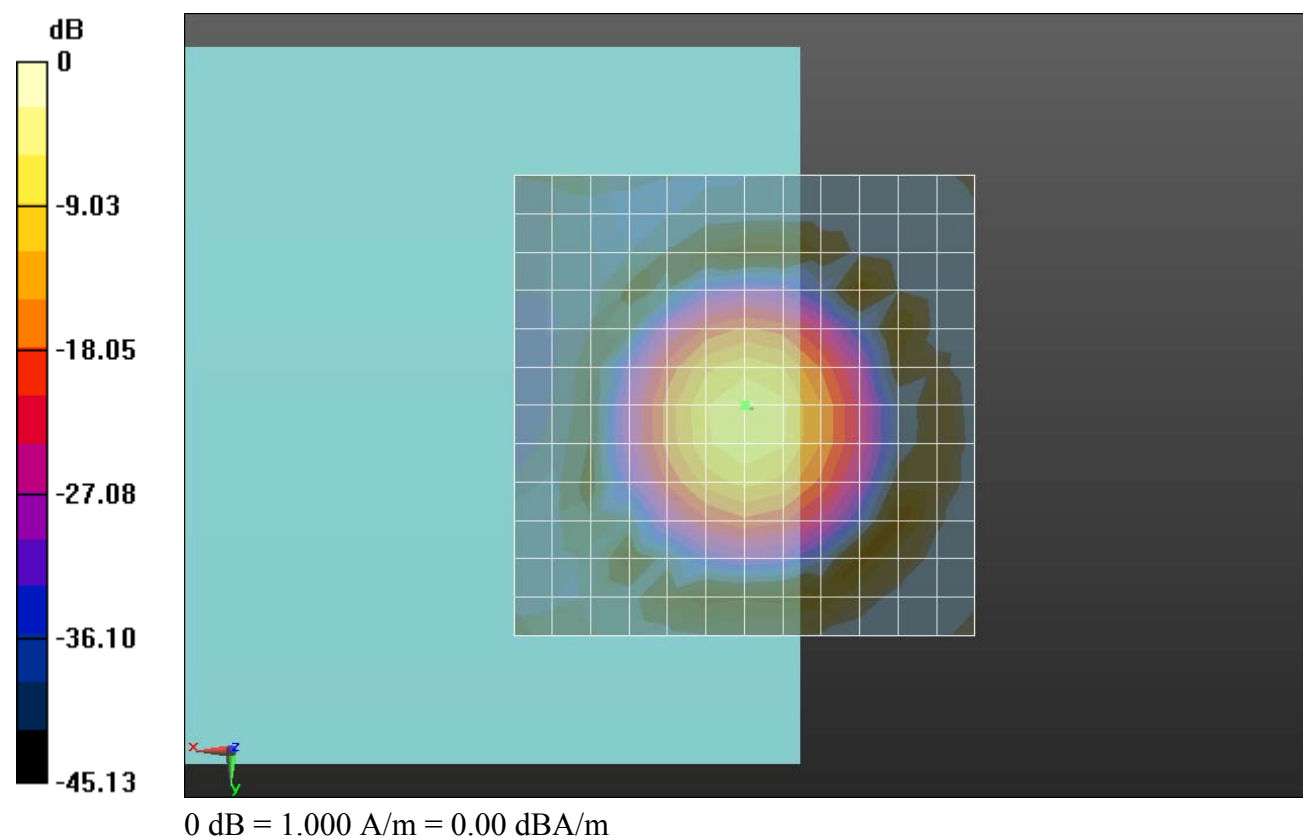
**Ch4233/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 33.04 dB

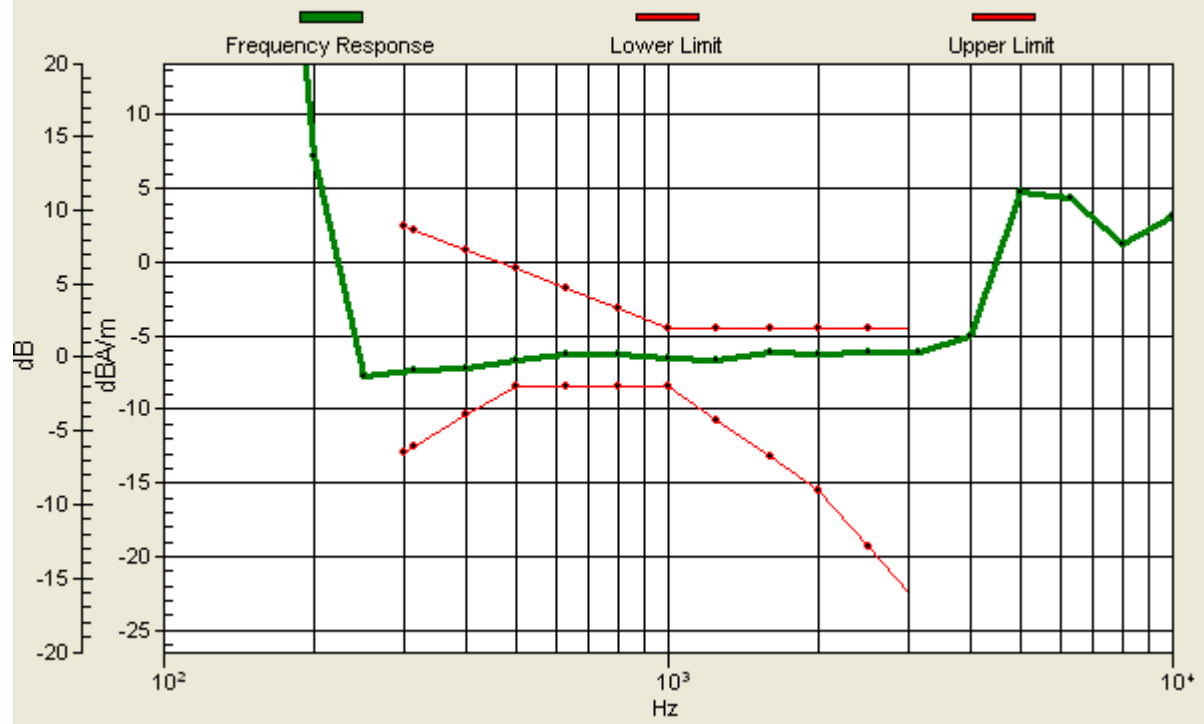
ABM1 comp = -6.08 dBA/m

Location: 0, 0, 3.7 mm



# Ch4233/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: 0, 0, 3.7 mm Diff: 1.6dB



**09 HAC T-Coil WCDMA Band V\_Voice (speech codec low)\_Ch4233(Y)**

Communication System: UID 0, UMTS (0); Frequency: 846.6 MHz; Duty Cycle: 1:1

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

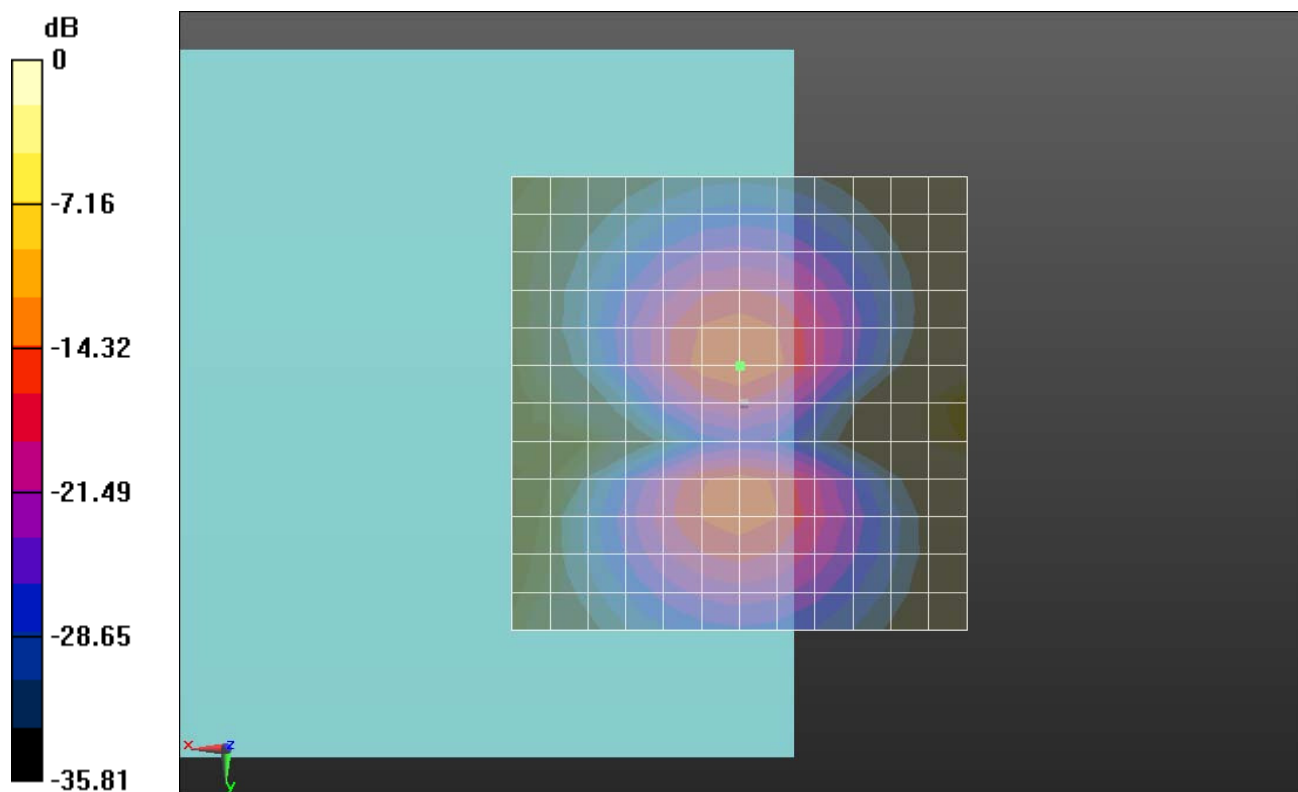
**Ch4233/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 28.34 dB

ABM1 comp = -14.15 dBA/m

Location: 0, -4.2, 3.7 mm



0 dB = 1.000 A/m = 0.00 dBA/m

**10 HAC T-Coil WCDMA Band II\_Voice (speech codec low)\_Ch9262(Z)**

Communication System: UID 0, UMTS (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

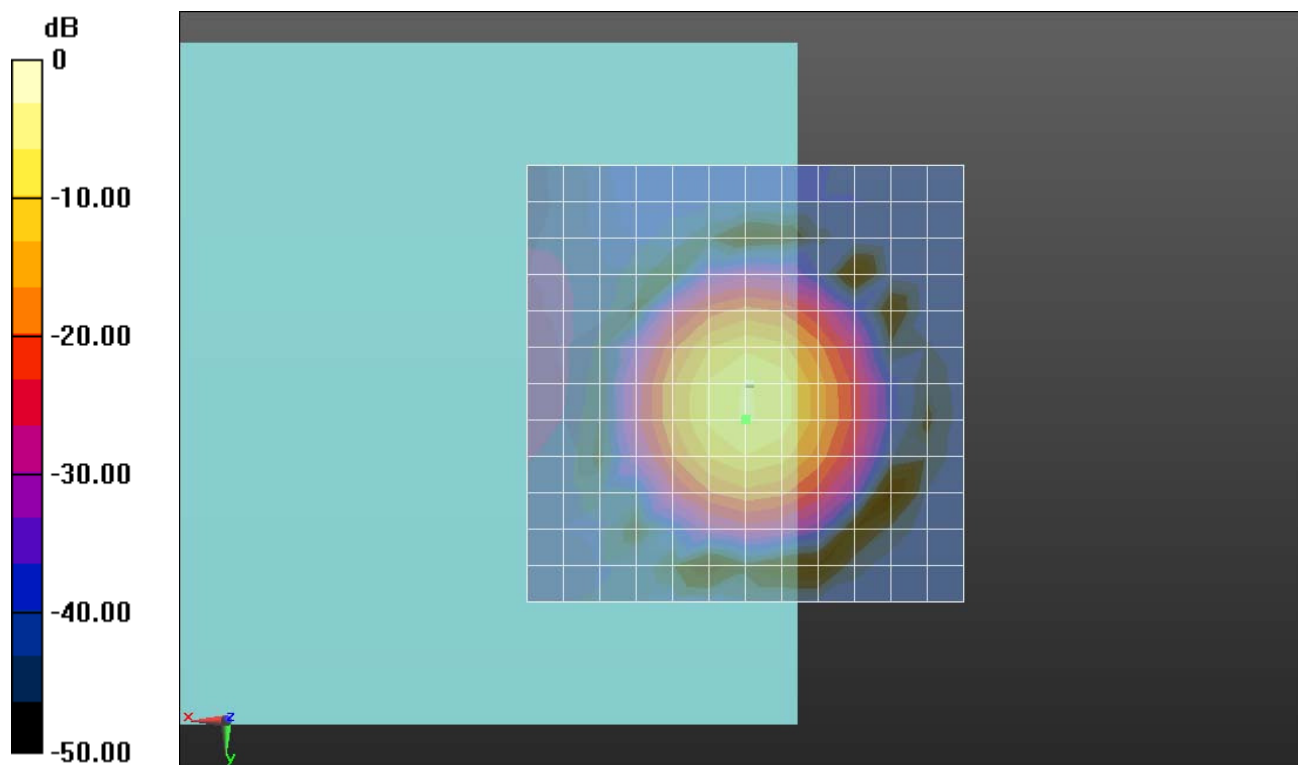
**Ch9262/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 35.00 dB

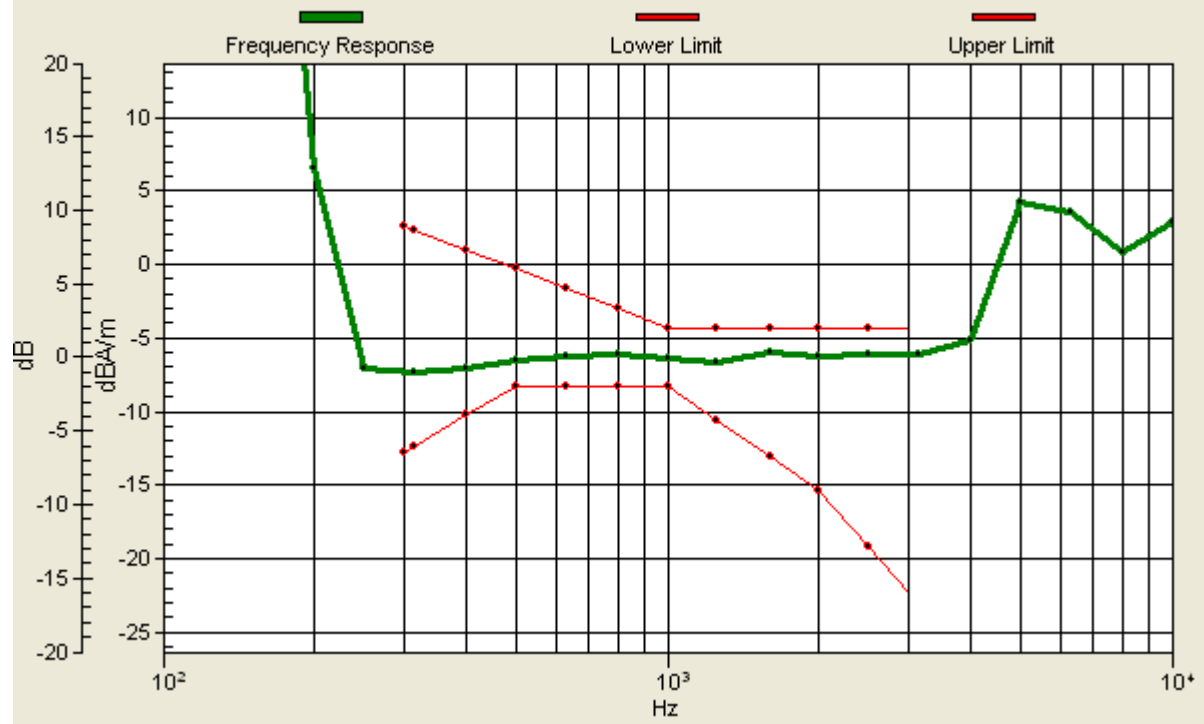
ABM1 comp = -6.11 dBA/m

Location: 0, 4.2, 3.7 mm



# Ch9262/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: 0, 4.2, 3.7 mm Diff: 1.6dB



**10 HAC T-Coil WCDMA Band II\_Voice (speech codec low)\_Ch9262(Y)**

Communication System: UID 0, UMTS (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

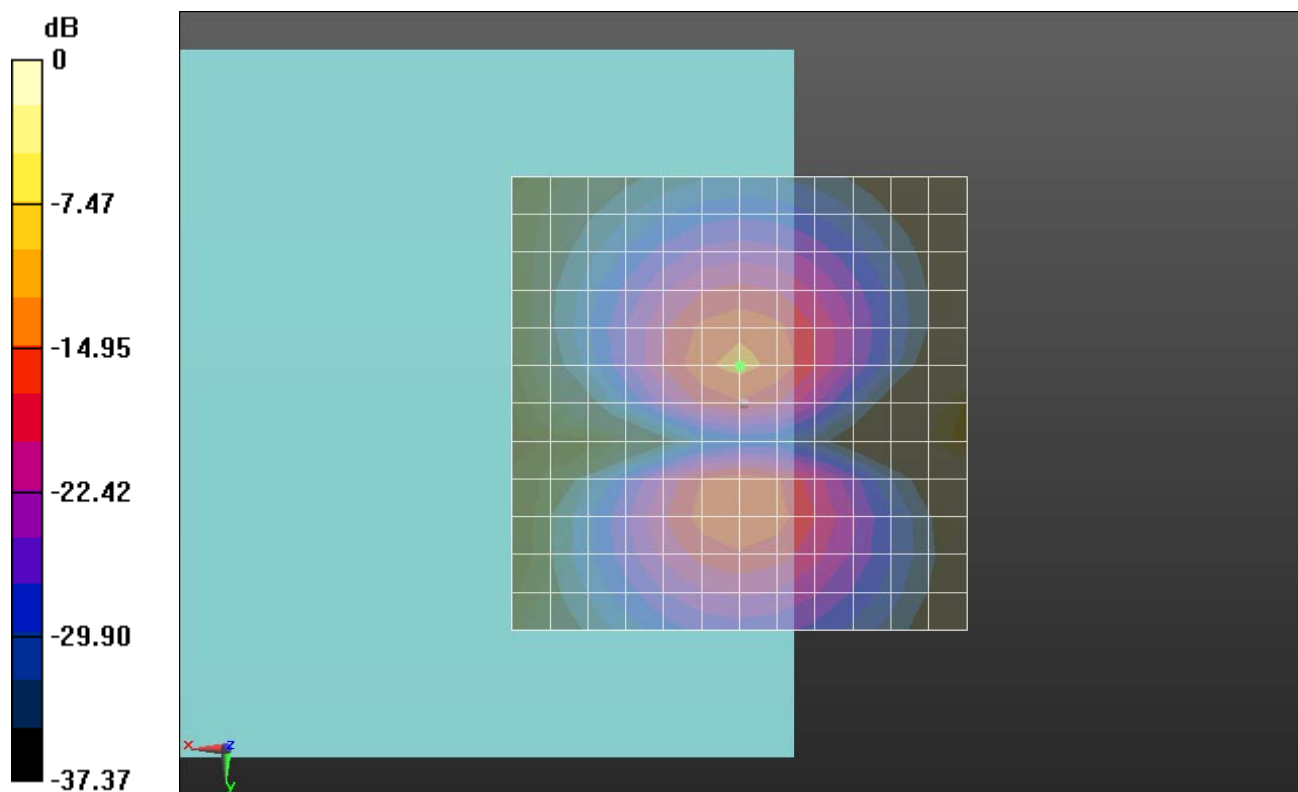
**Ch9262/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 29.72 dB

ABM1 comp = -13.92 dBA/m

Location: 0, -4.2, 3.7 mm



**11 HAC T-Coil WCDMA Band II\_Voice (speech codec low)\_Ch9400(Z)**

Communication System: UID 0, UMTS (0); Frequency: 1880 MHz; Duty Cycle: 1:1

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

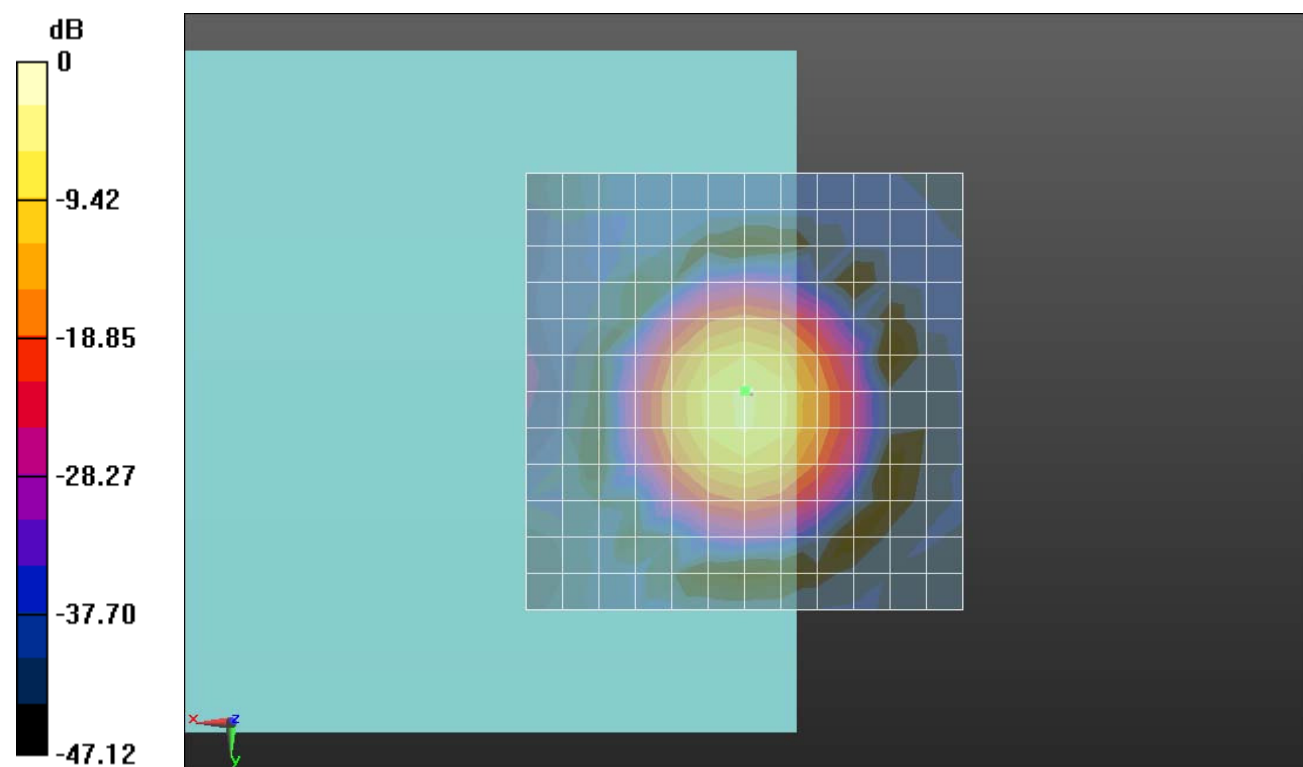
**Ch9400/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 34.44 dB

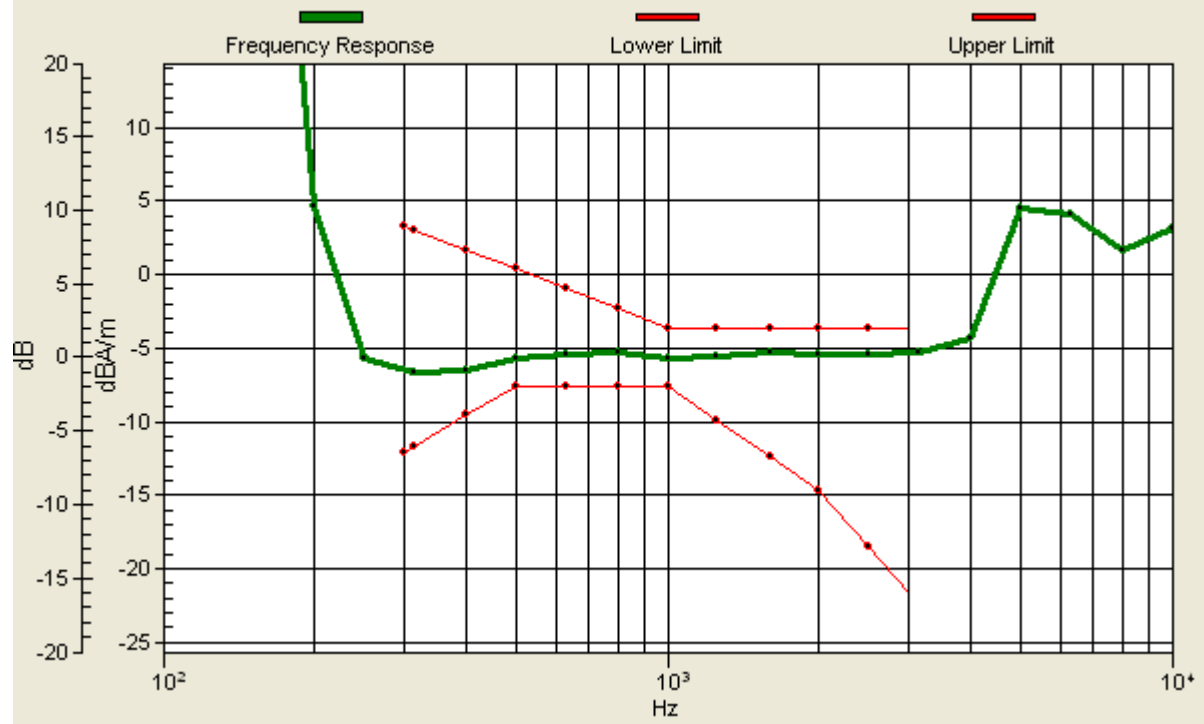
ABM1 comp = -5.36 dBA/m

Location: 0, 0, 3.7 mm



# Ch9400/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: 0, 0, 3.7 mm Diff: 1.64dB



**11 HAC T-Coil WCDMA Band II\_Voice (speech codec low)\_Ch9400(Y)**

Communication System: UID 0, UMTS (0); Frequency: 1880 MHz; Duty Cycle: 1:1

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

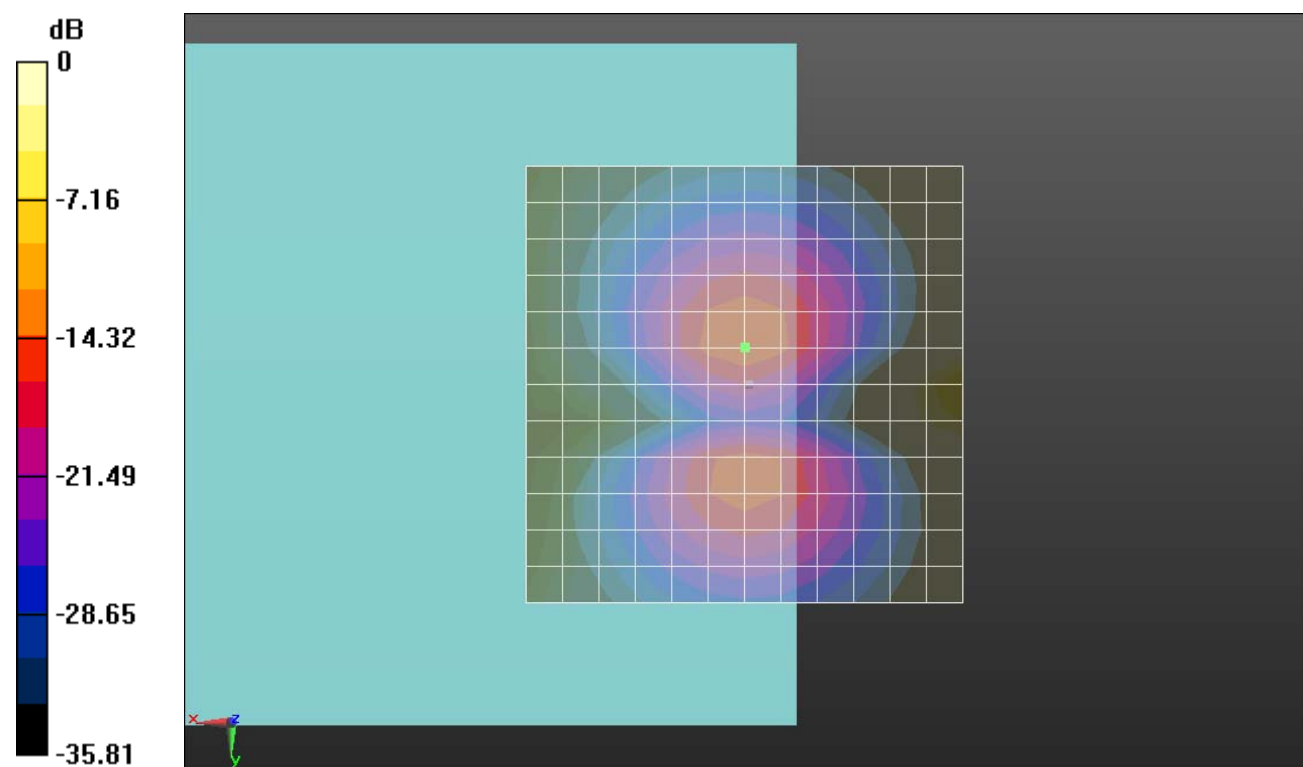
**Ch9400/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 27.47 dB

ABM1 comp = -14.19 dBA/m

Location: 0, -4.2, 3.7 mm



**12 HAC T-Coil WCDMA Band II\_Voice (speech codec low)\_Ch9538(Z)**

Communication System: UID 0, UMTS (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

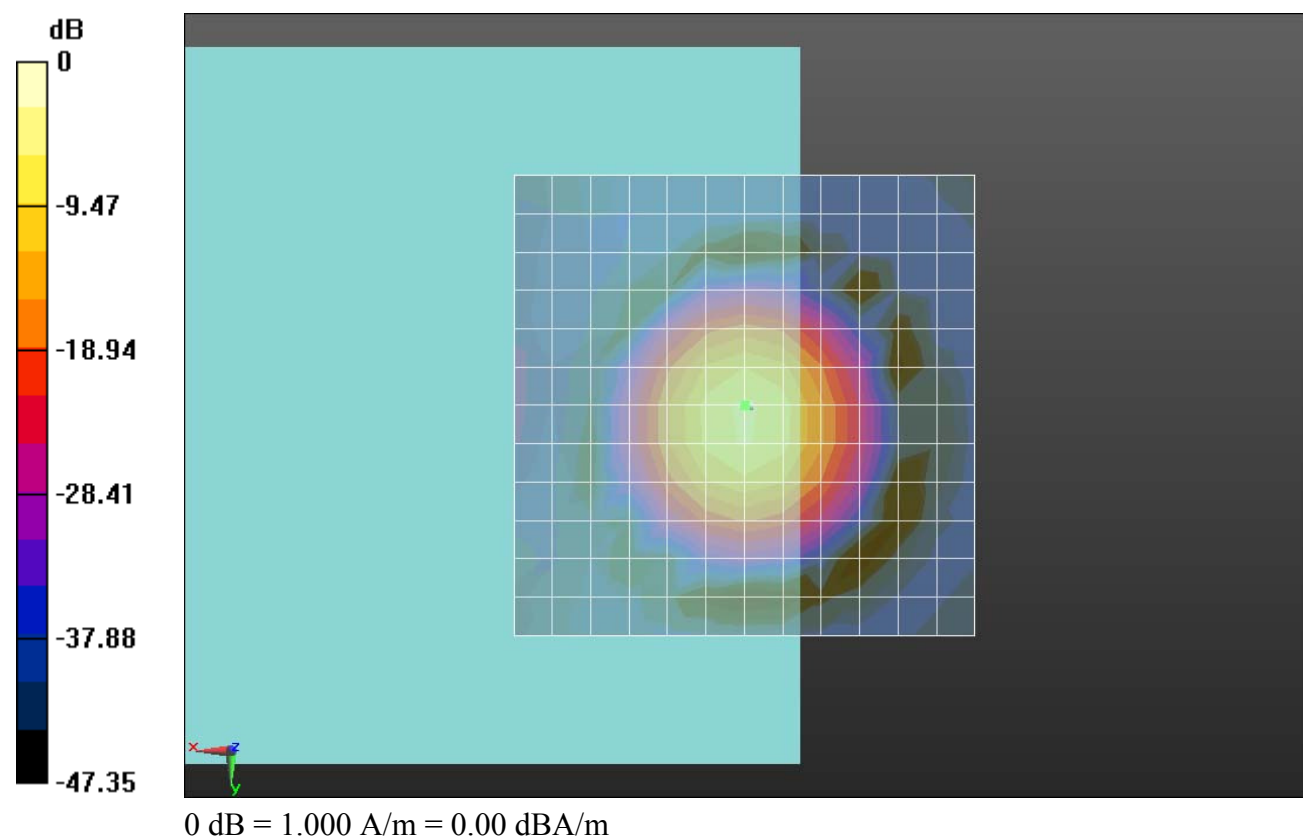
**Ch9538/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 32.92 dB

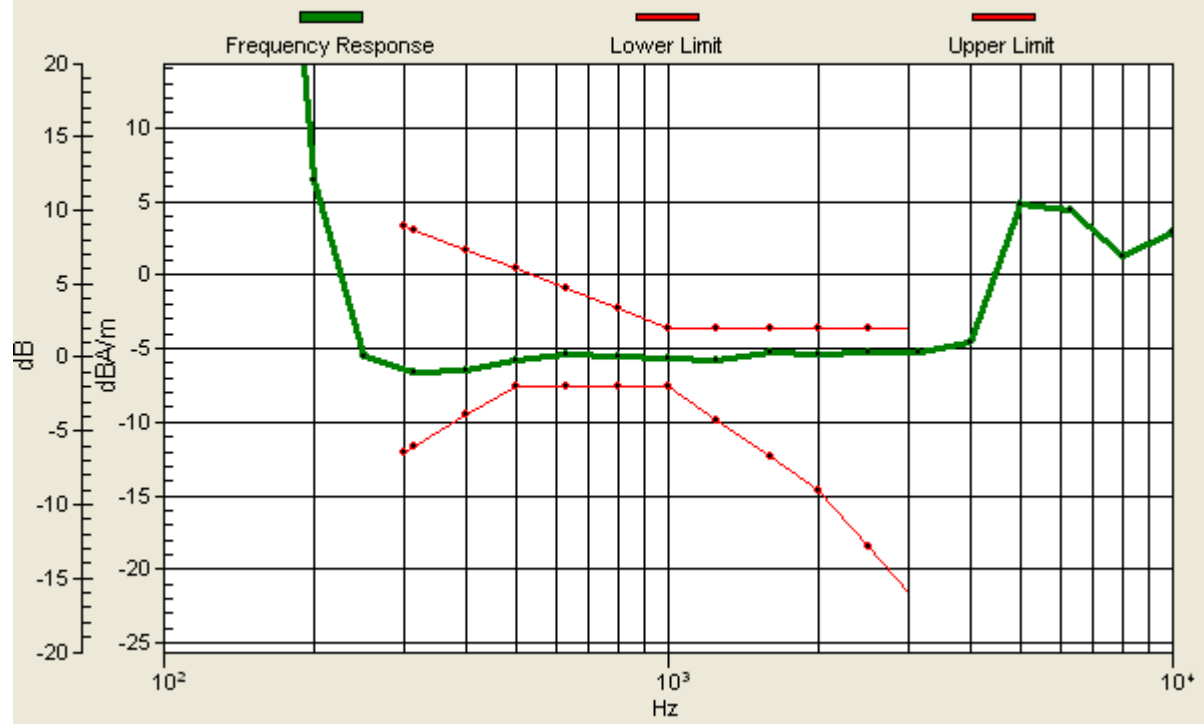
ABM1 comp = -5.38 dBA/m

Location: 0, 0, 3.7 mm



# Ch9538/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: 0, 0, 3.7 mm Diff: 1.67dB



**12 HAC T-Coil WCDMA Band II\_Voice (speech codec low)\_Ch9538(Y)**

Communication System: UID 0, UMTS (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3067; ; Calibrated: 2014.02.27
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2014.04.30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Ch9538/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 27.27 dB

ABM1 comp = -14.29 dBA/m

Location: 0, -4.2, 3.7 mm

