

**#01 HAC T-Coil\_GSM850\_Voice (speech codec/handset low)\_Ch128(Z)**

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

Medium: Air Medium parameters used:  $\sigma = 0 \text{ S/m}$ ,  $\epsilon_r = 1$ ;  $\rho = 0 \text{ kg/m}^3$

Ambient Temperature : 23.1 °C

**DASY5 Configuration:**

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

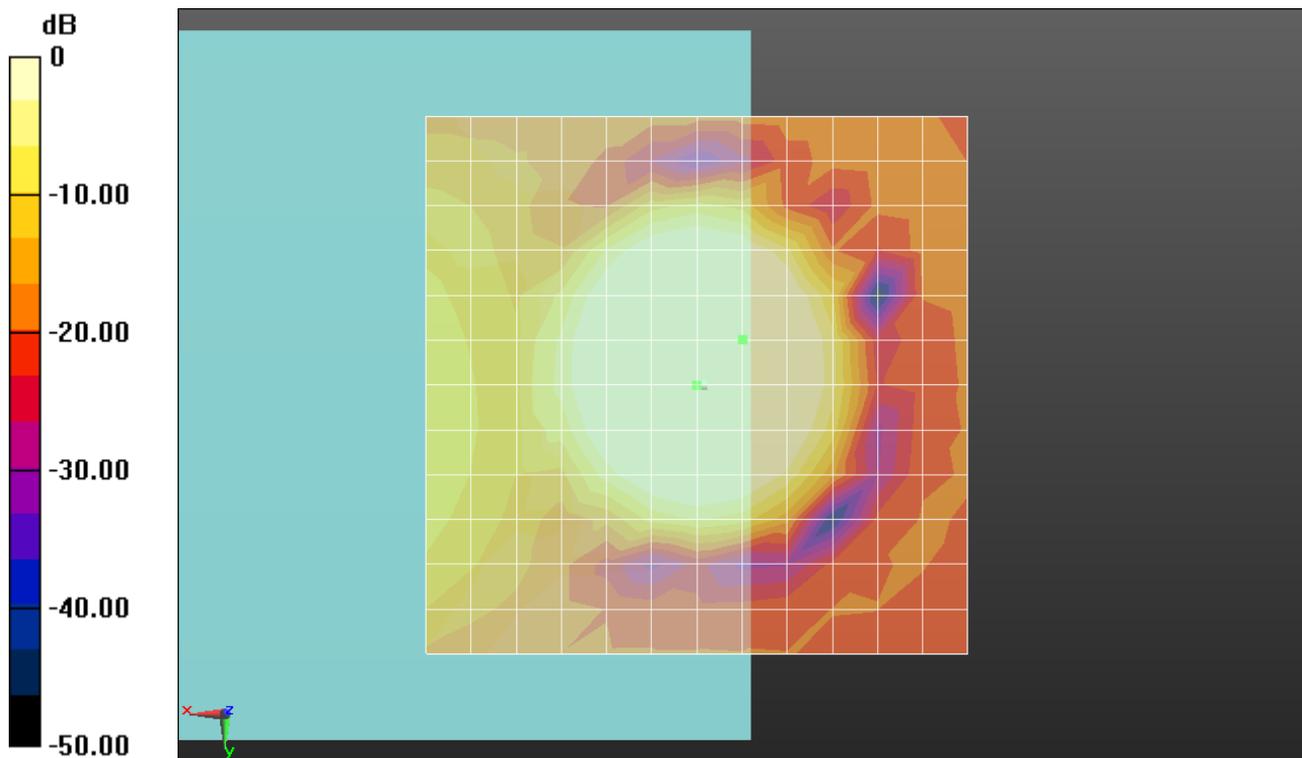
**Ch128/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 38.66 dB

ABM1 comp = 11.92 dBA/m

Location: -4.2, -4.2, 3.7 mm



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

Loc: -4.2, -4.2, 3.7 mm Diff: 0.9dB



**#01 HAC T-Coil\_GSM850\_Voice (speech codec/handset low)\_Ch128(Y)**

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

Medium: Air Medium parameters used:  $\sigma = 0 \text{ S/m}$ ,  $\epsilon_r = 1$ ;  $\rho = 0 \text{ kg/m}^3$

Ambient Temperature : 23.1 °C

**DASY5 Configuration:**

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

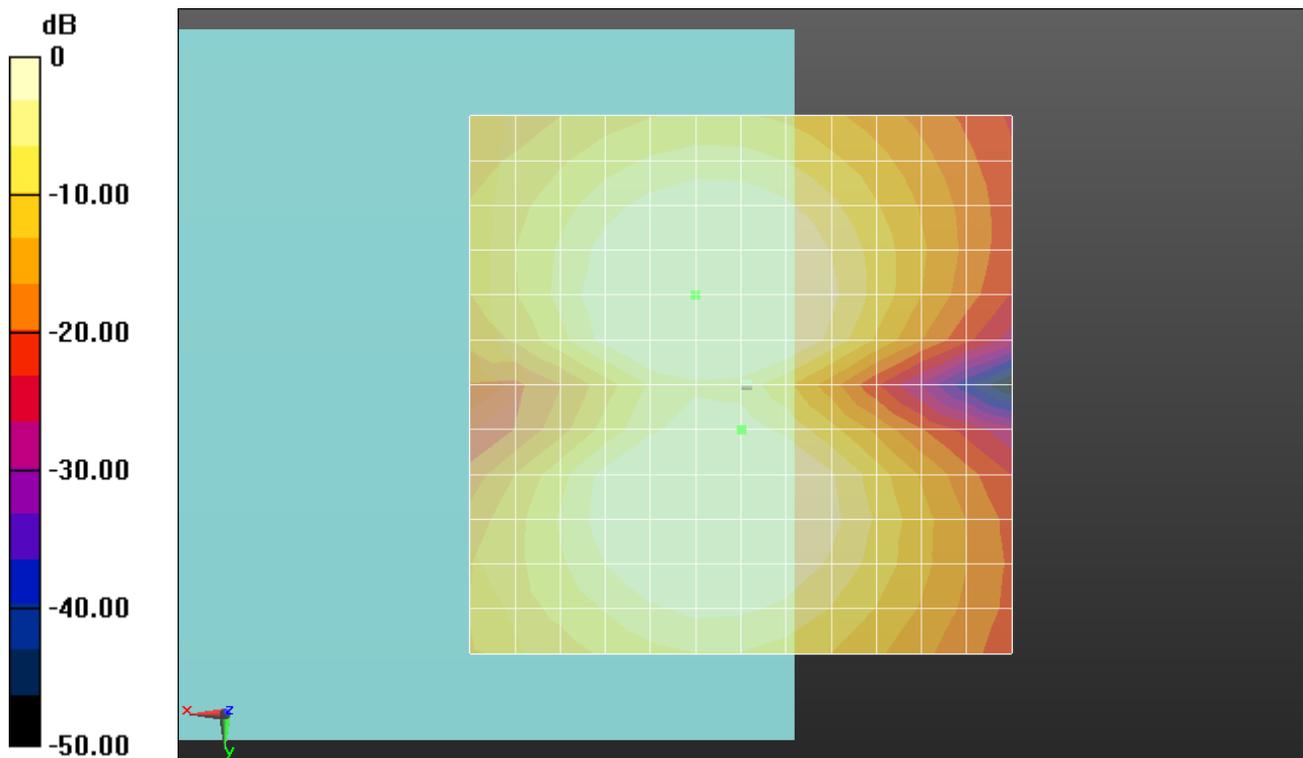
**Ch128/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 37.26 dB

ABM1 comp = -1.39 dBA/m

Location: 0, 4.2, 3.7 mm



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

**#02 HAC T-Coil\_GSM850\_Voice (speech codec/handset low)\_Ch189(Z)**

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

Medium: Air Medium parameters used:  $\sigma = 0 \text{ S/m}$ ,  $\epsilon_r = 1$ ;  $\rho = 0 \text{ kg/m}^3$

Ambient Temperature : 23.1 °C

**DASY5 Configuration:**

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

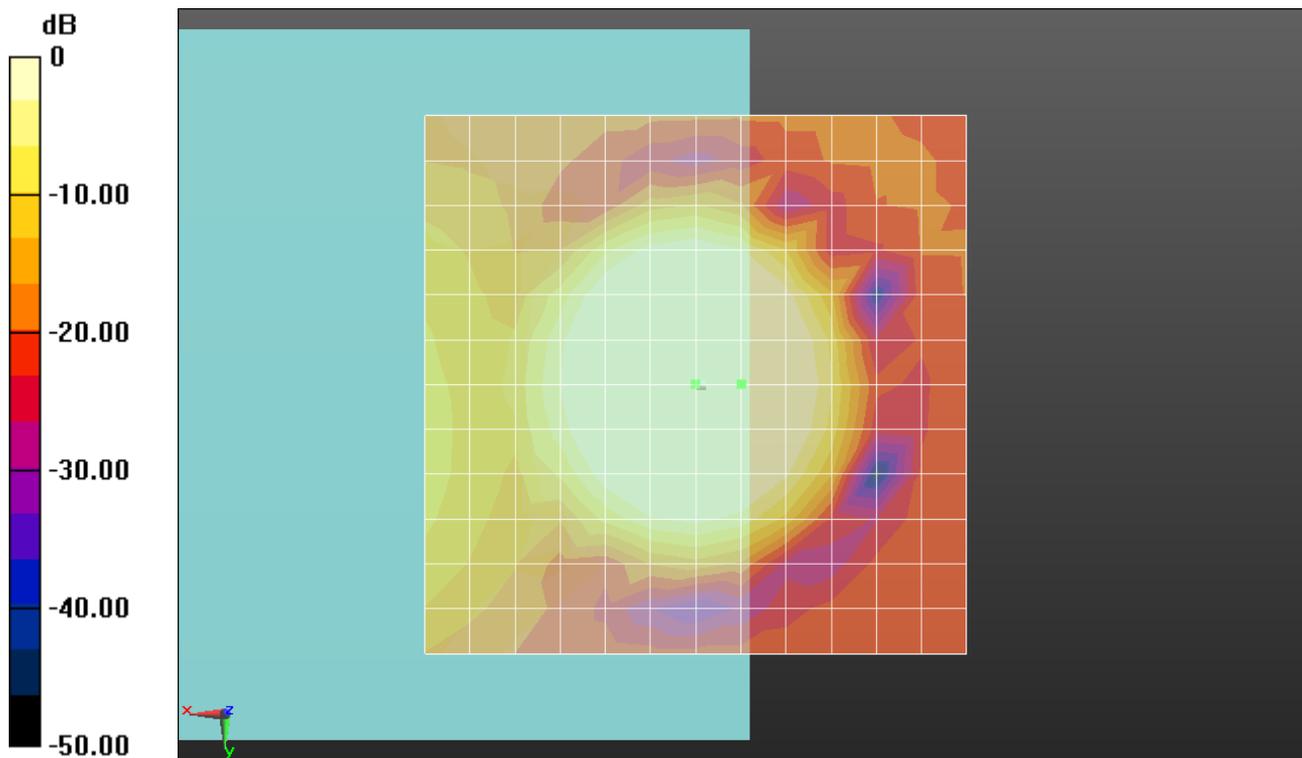
**Ch189/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:**

dx=10mm, dy=10mm

ABM1/ABM2 = 37.67 dB

ABM1 comp = 10.71 dBA/m

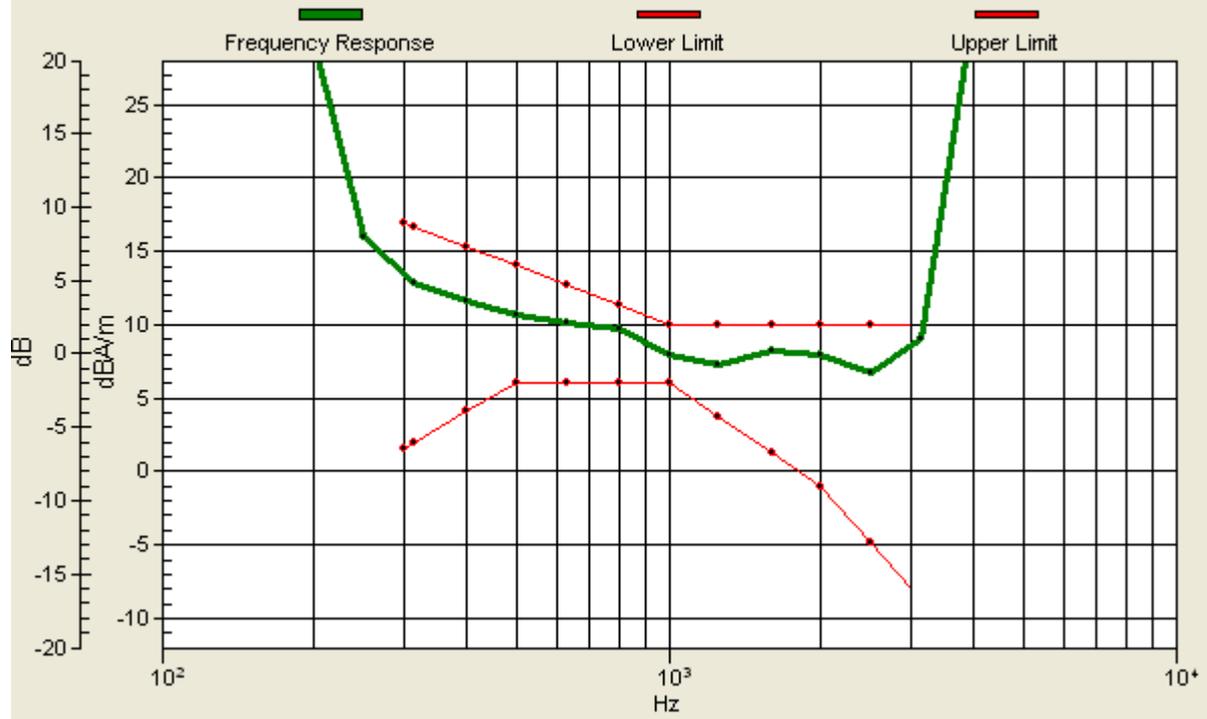
Location: -4.2, 0, 3.7 mm



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

# Ch189/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: -4.2, 0, 3.7 mm Diff: 1.47dB



### #02 HAC T-Coil\_GSM850\_Voice (speech codec/handset low)\_Ch189(Y)

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

Medium: Air Medium parameters used:  $\sigma = 0 \text{ S/m}$ ,  $\epsilon_r = 1$ ;  $\rho = 0 \text{ kg/m}^3$

Ambient Temperature : 23.1 °C

#### DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

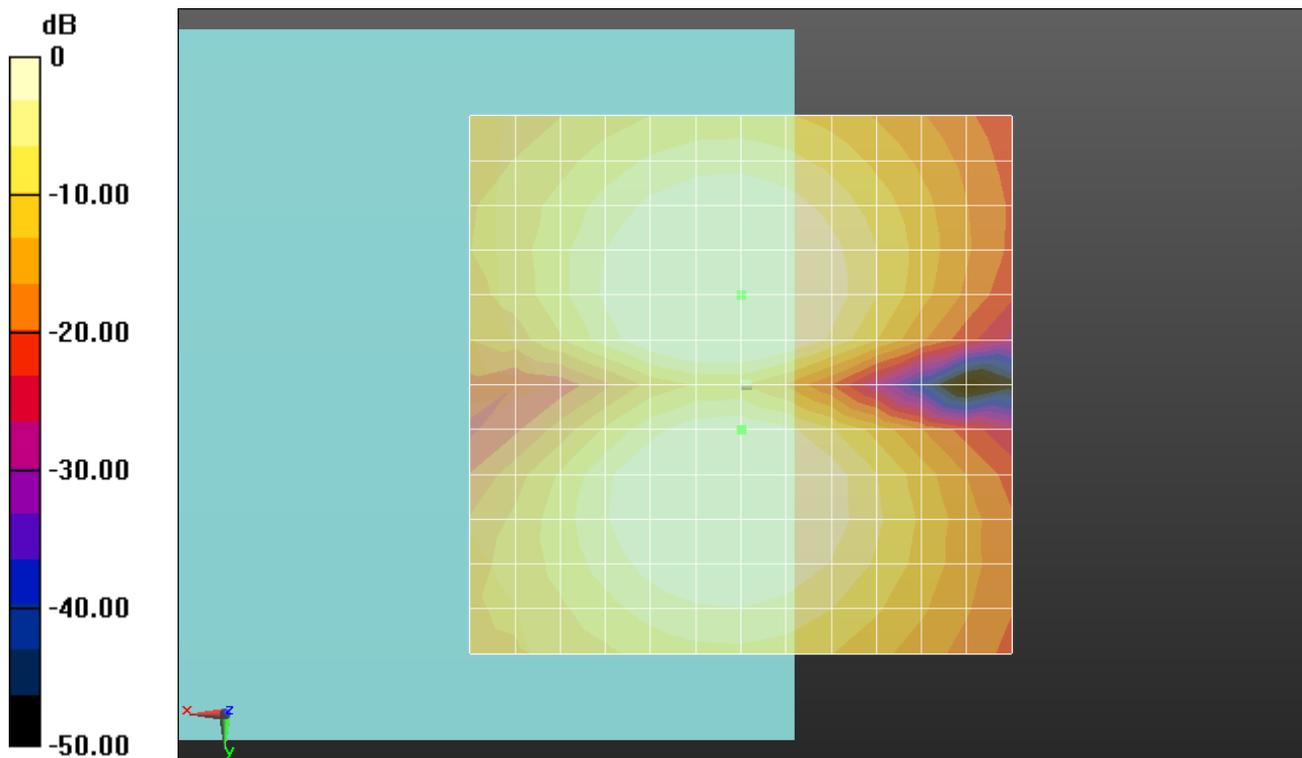
#### Ch189/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 35.43 dB

ABM1 comp = -0.39 dBA/m

Location: 0, 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: General GSM; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0 \text{ S/m}$ ,  $\epsilon_r = 1$ ;  $\rho = 0 \text{ kg/m}^3$

Ambient Temperature : 23.1 °C

#### DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

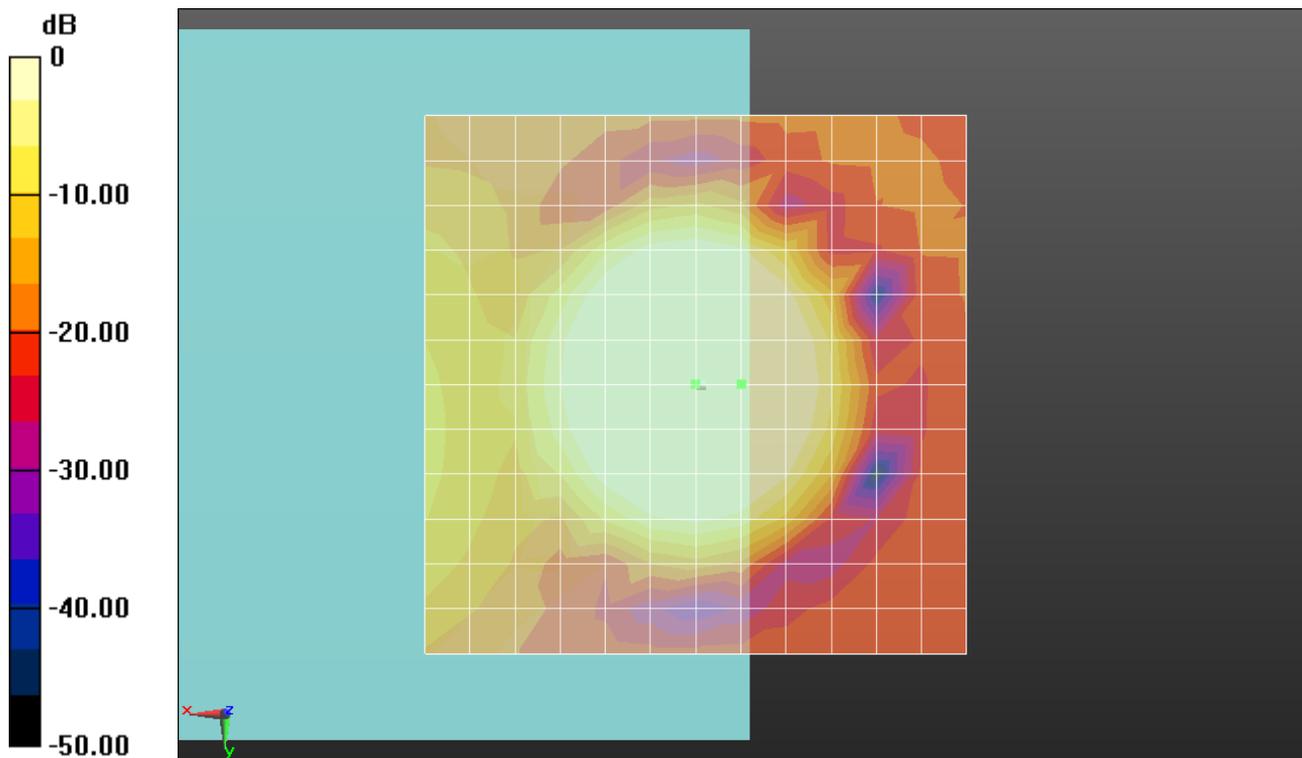
#### Ch251/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 37.99 dB

ABM1 comp = 10.70 dBA/m

Location: -4.2, 0, 3.7 mm



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

# Ch251/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: -4.2, 0, 3.7 mm Diff: 1.06dB



### #03 HAC T-Coil\_GSM850\_Voice (speech codec/handset low)\_Ch251(Y)

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

Medium: Air Medium parameters used:  $\sigma = 0 \text{ S/m}$ ,  $\epsilon_r = 1$ ;  $\rho = 0 \text{ kg/m}^3$

Ambient Temperature : 23.1 °C

#### DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

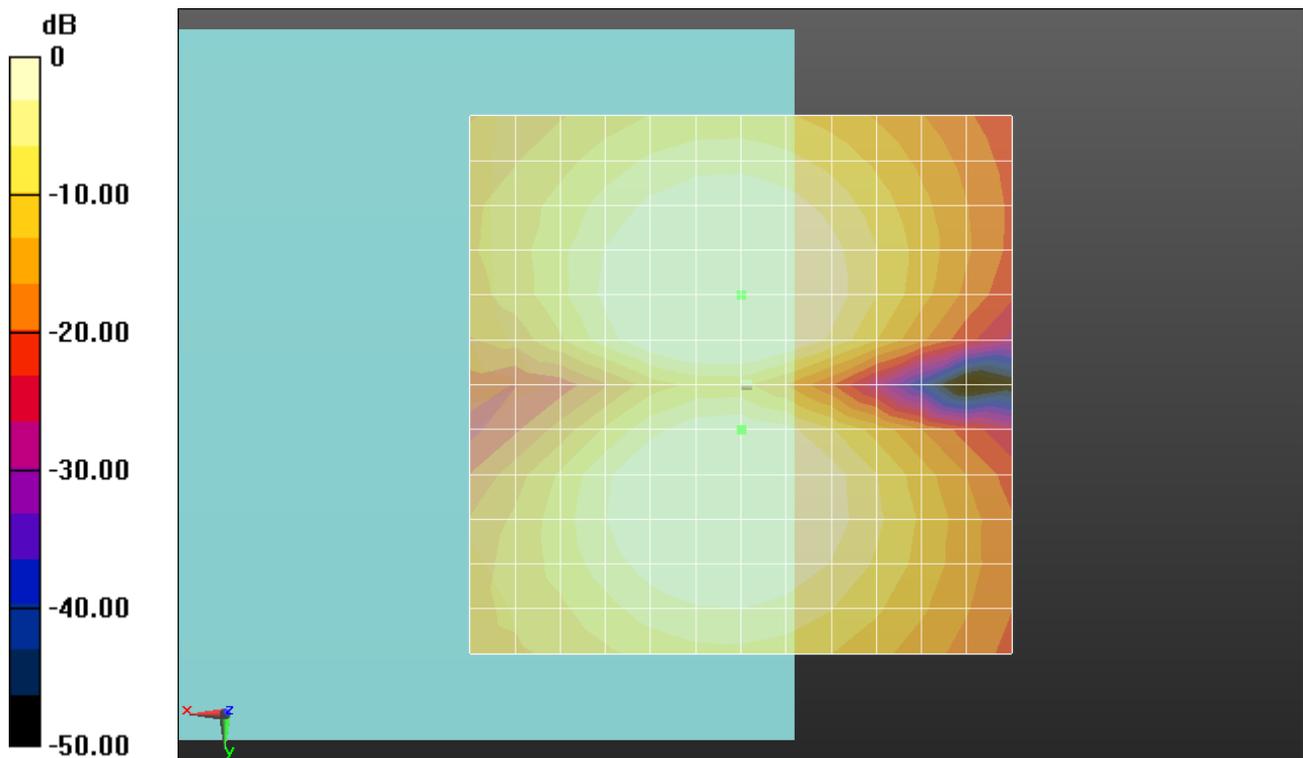
#### Ch251/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 36.21 dB

ABM1 comp = -0.35 dBA/m

Location: 0, 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: General GSM; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0 \text{ S/m}$ ,  $\epsilon_r = 1$ ;  $\rho = 0 \text{ kg/m}^3$

Ambient Temperature : 23.1 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

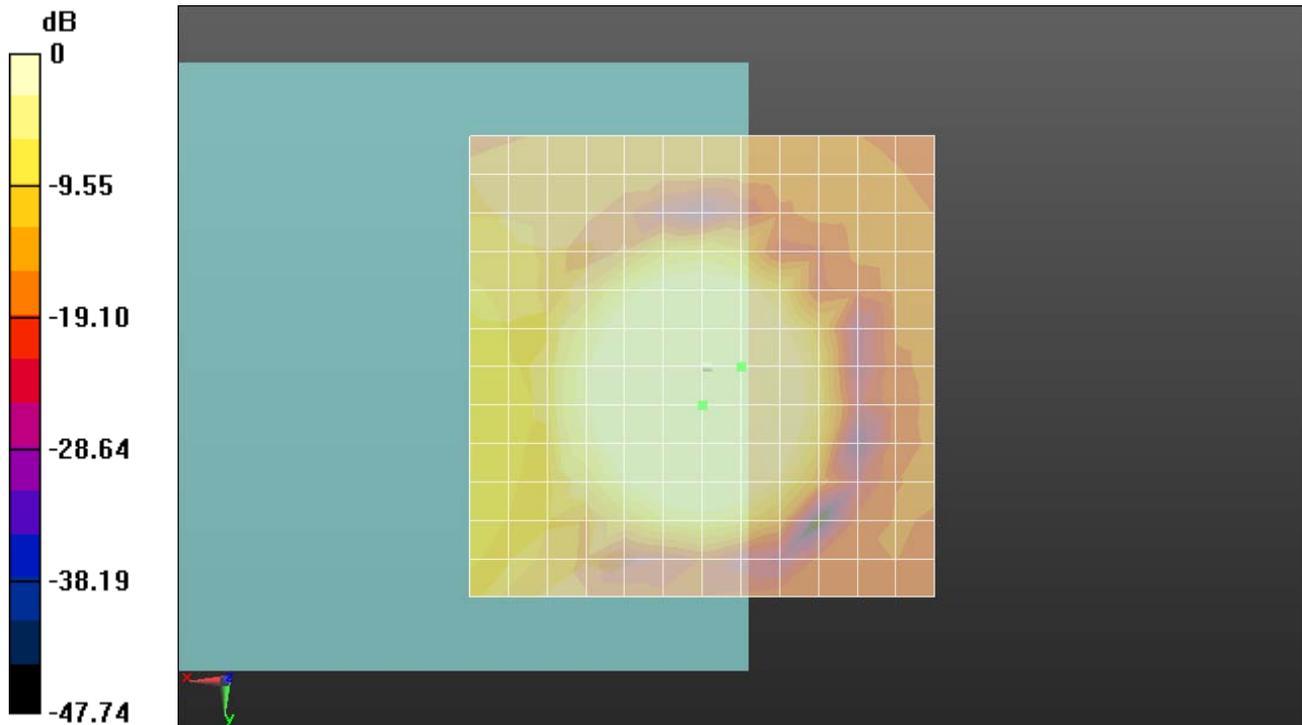
**Ch512/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 40.16 dB

ABM1 comp = 10.91 dBA/m

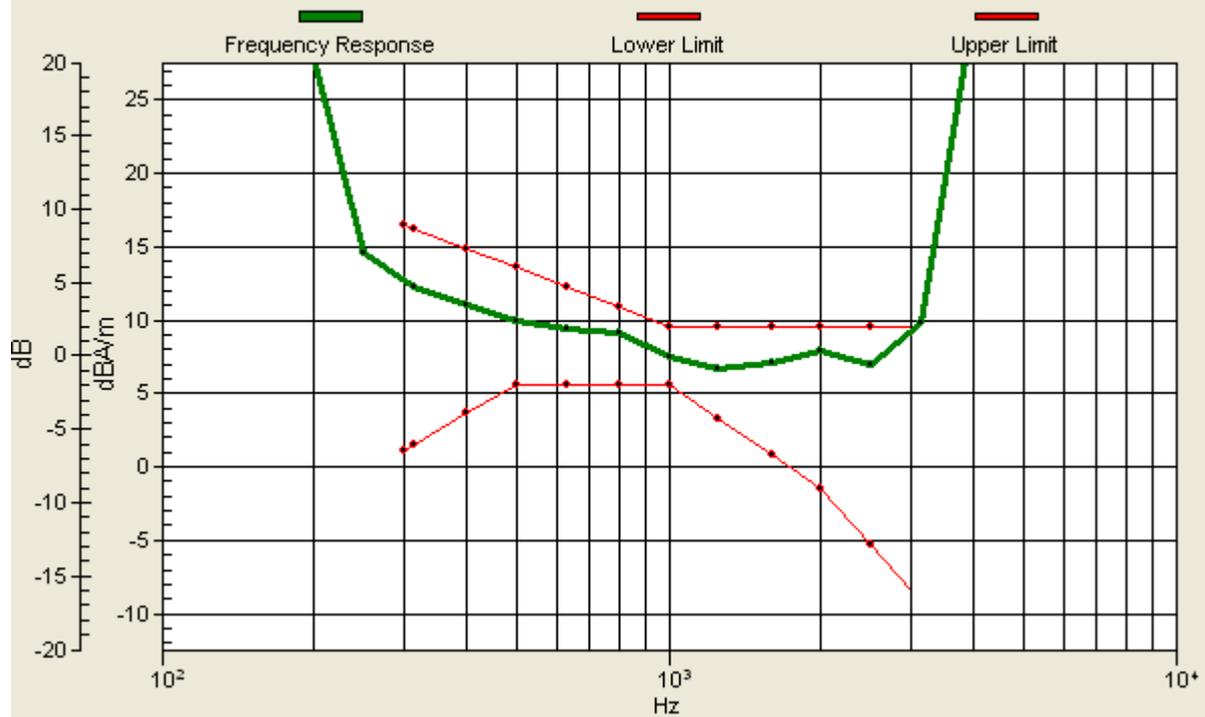
Location: -4.2, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

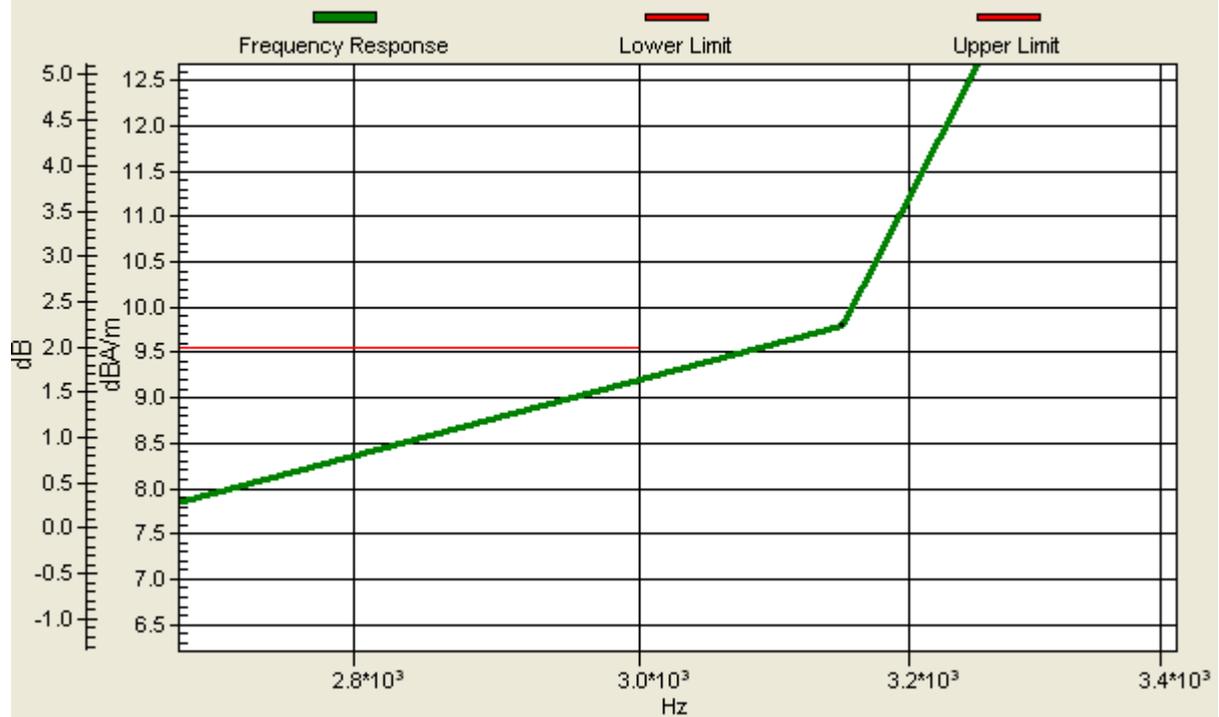
### Ch512/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: -4.2, 0, 3.7 mm Diff: 0.42dB



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

Loc: -4.2, 0, 3.7 mm Diff: 0.42dB



**#04 HAC T-Coil\_GSM1900\_Voice (speech codec/handset low)\_Ch512(Y)**

Communication System: General GSM; 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 : 23.1 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

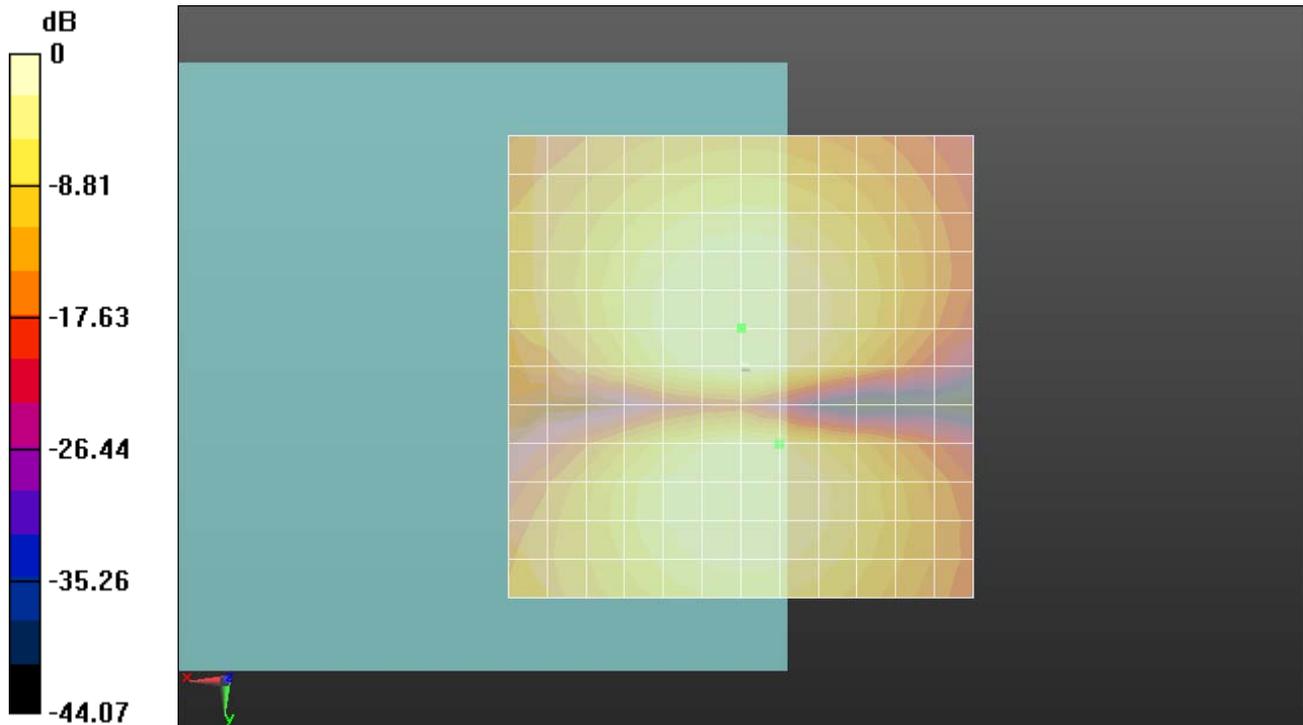
**Ch512/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 35.72 dB

ABM1 comp = -2.24 dBA/m

Location: -4.2, 8.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

**#05 HAC T-Coil\_GSM1900\_Voice (speech codec/handset low)\_Ch661(Z)**

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

Medium: Air Medium parameters used:  $\sigma = 0 \text{ S/m}$ ,  $\epsilon_r = 1$ ;  $\rho = 0 \text{ kg/m}^3$

Ambient Temperature : 23.1 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

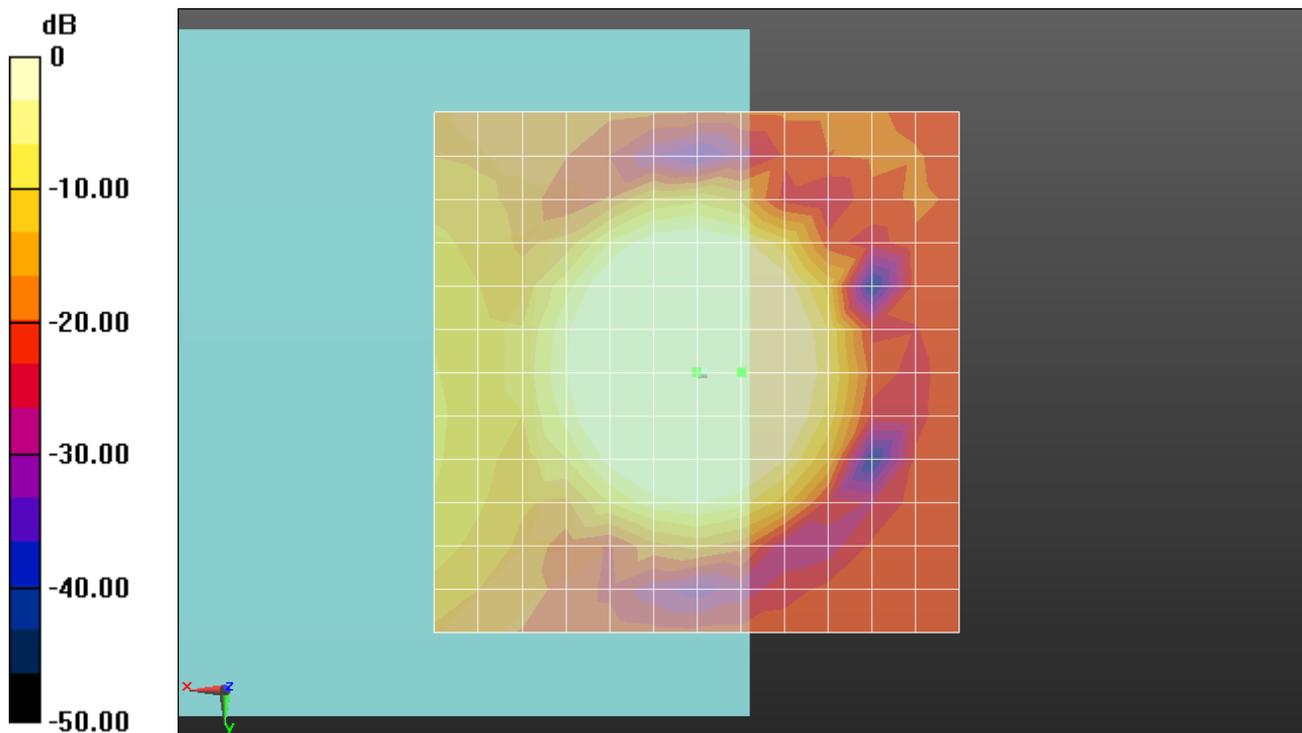
**Ch661/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 38.73 dB

ABM1 comp = 10.58 dBA/m

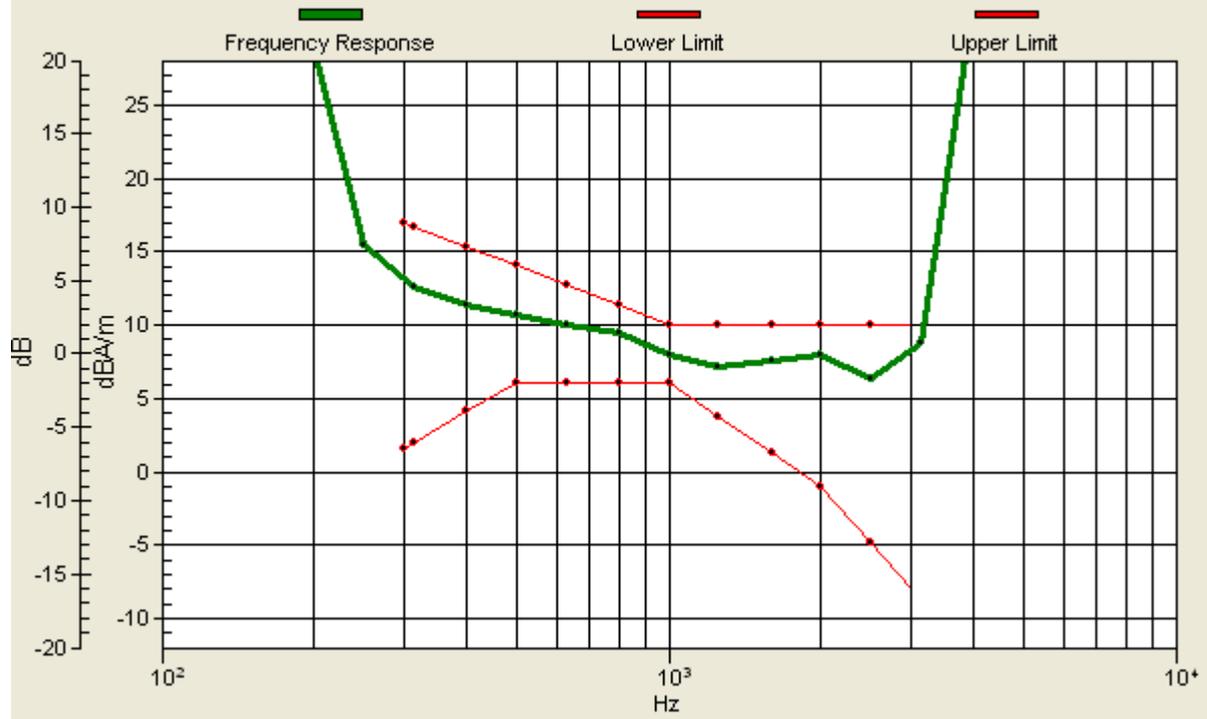
Location: -4.2, 0, 3.7 mm



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

# Ch661/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: -4.2, 0, 3.7 mm Diff: 1.8dB



**#05 HAC T-Coil\_GSM1900\_Voice (speech codec/handset low)\_Ch661(Y)**

Communication System: General GSM; 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 : 23.1 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

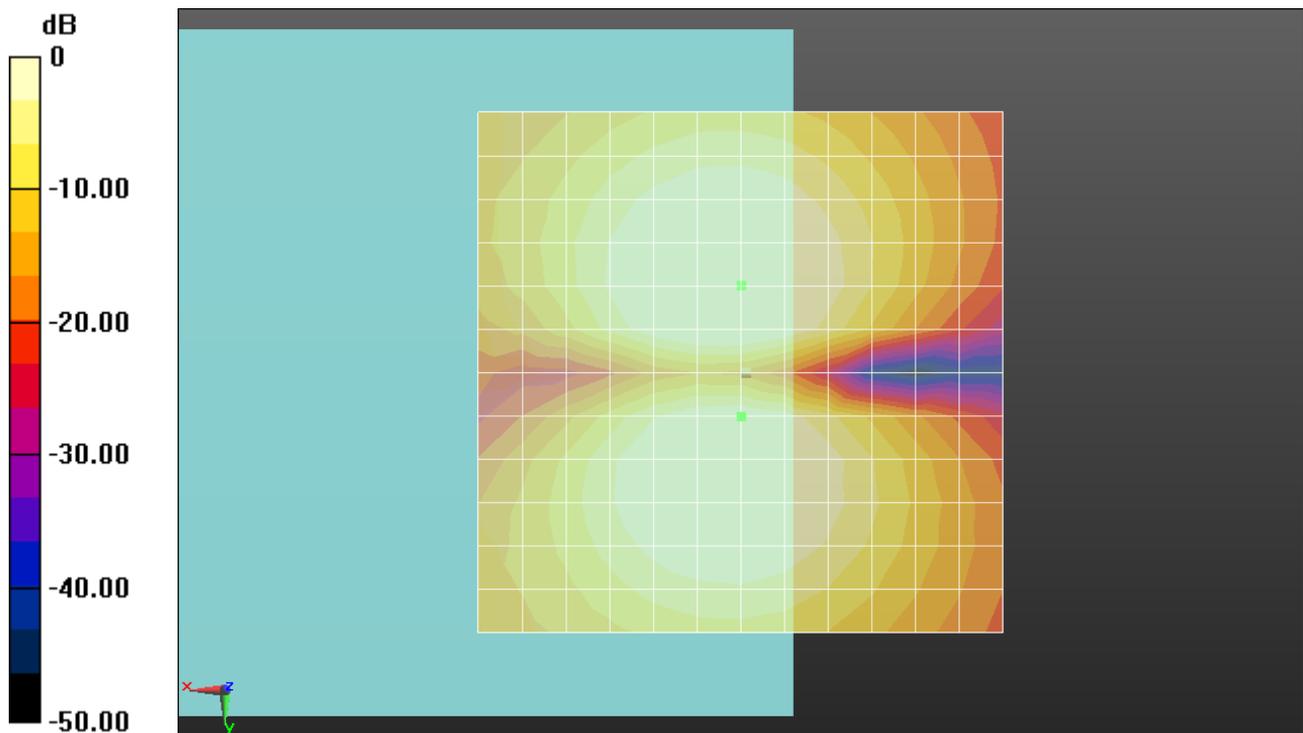
**Ch661/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 36.35 dB

ABM1 comp = 0.30 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(Z)**

Communication System: General GSM; 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 : 23.1 °C

**DASY5 Configuration:**

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

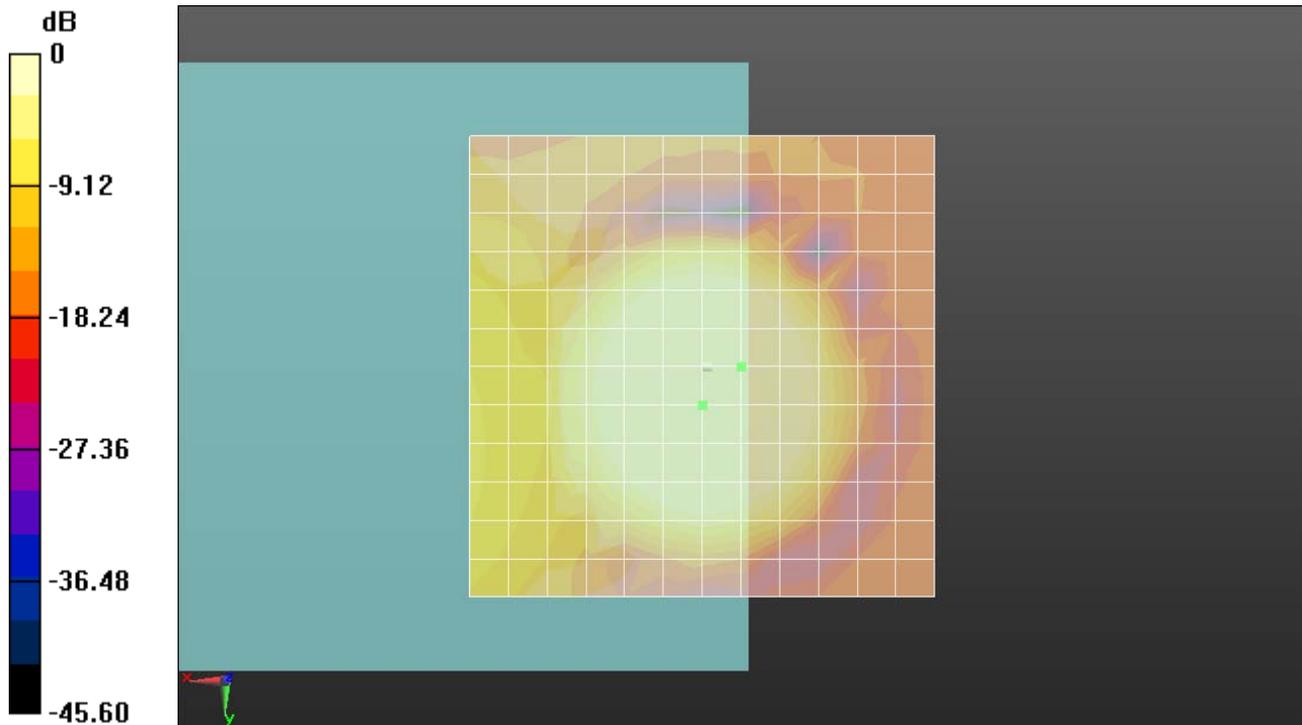
**Ch810/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 37.89 dB

ABM1 comp = 10.47 dBA/m

Location: -4.2, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

# Ch810/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: -4.2, 0, 3.7 mm Diff: 0.6dB



**#06 HAC T-Coil\_GSM1900\_Voice (speech codec/handset low)\_Ch810(Y)**

Communication System: General GSM; 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 : 23.1 °C

**DASY5 Configuration:**

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

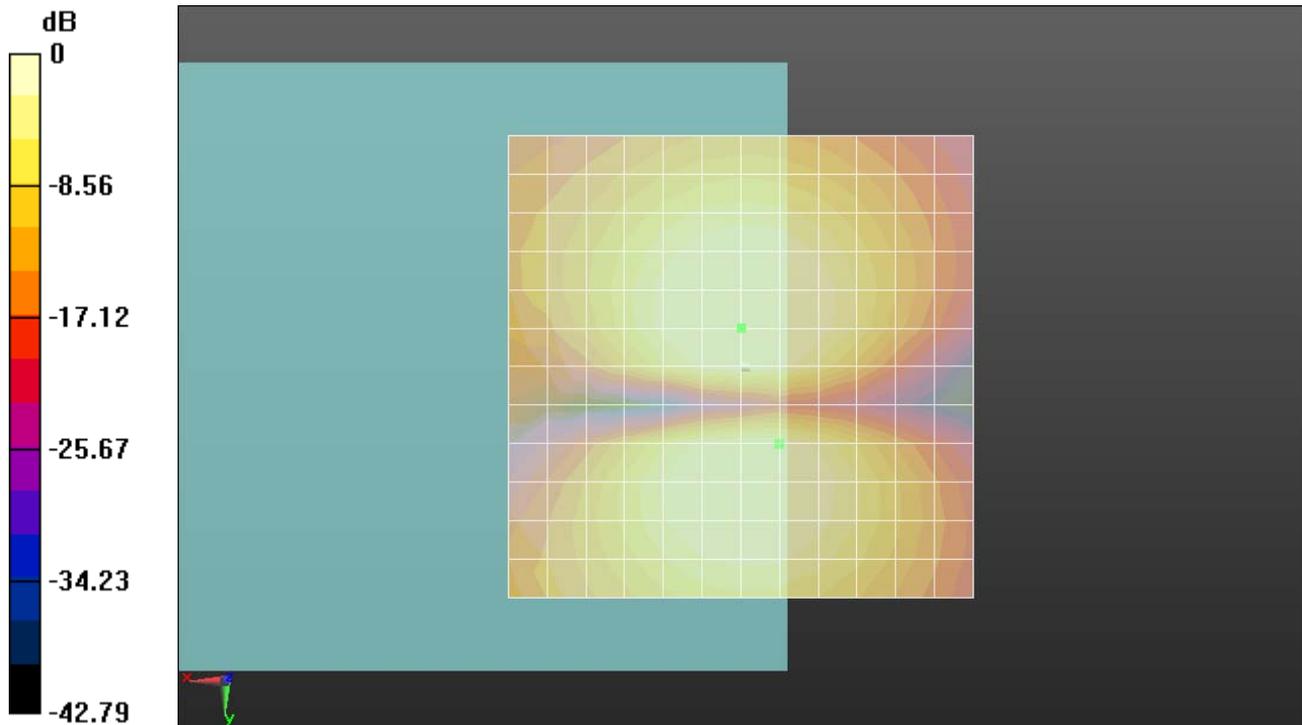
**Ch810/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 34.41 dB

ABM1 comp = 0.10 dBA/m

Location: -4.2, 8.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

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

Communication System: UMTS; 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 : 23.1 °C

**DASY5 Configuration:**

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

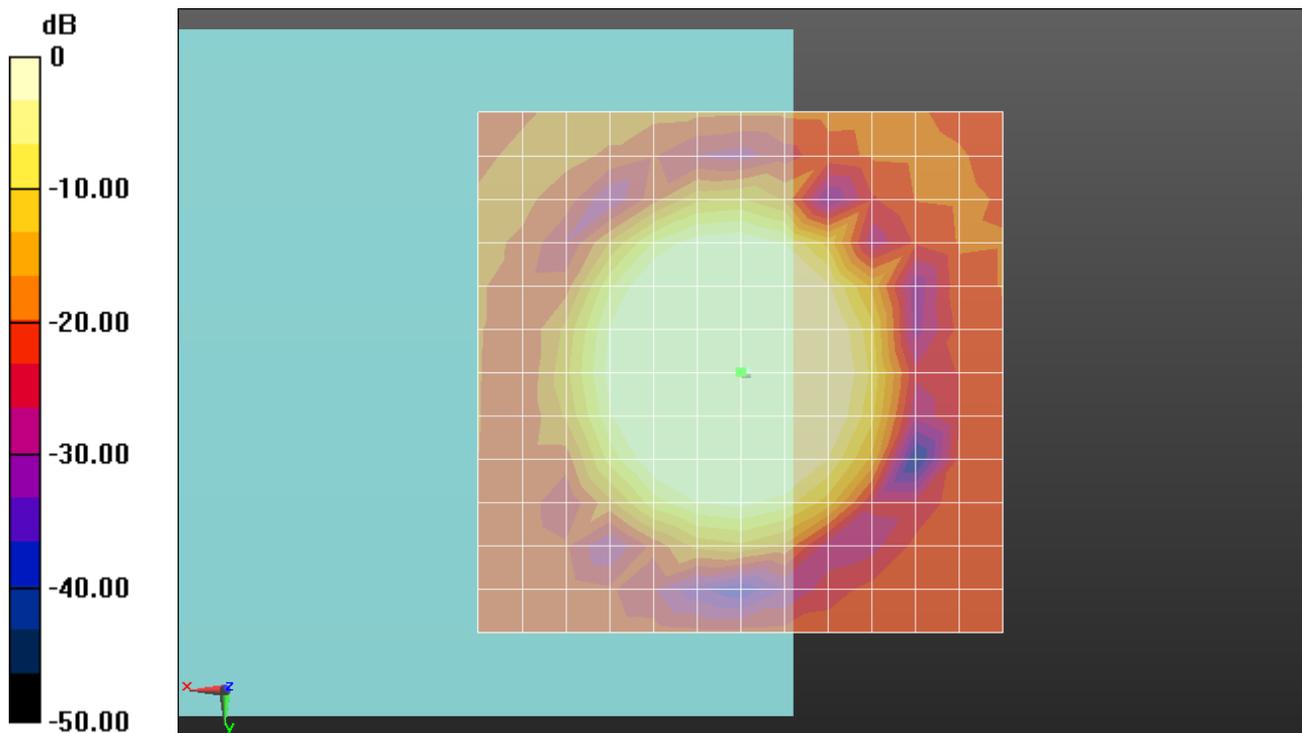
**Ch4132/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 54.56 dB

ABM1 comp = 13.47 dBA/m

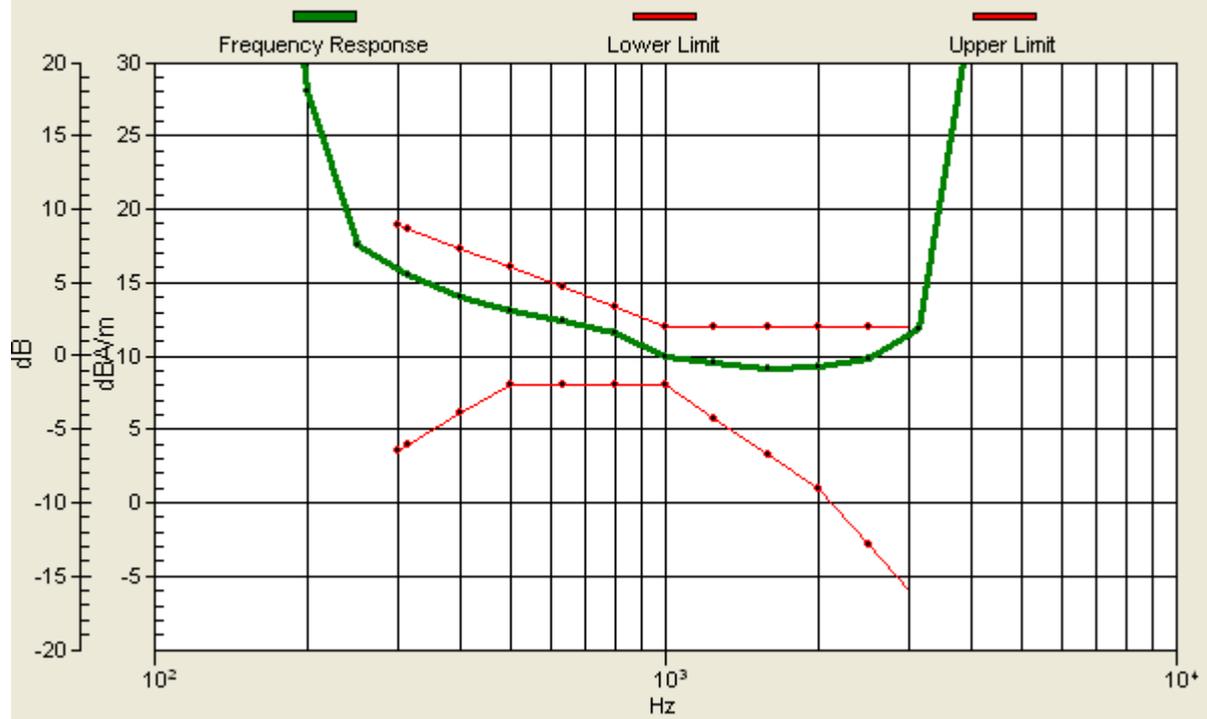
Location: 0, 0, 3.7 mm



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: 0.62dB



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

Communication System: UMTS; 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 : 23.1 °C

#### DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

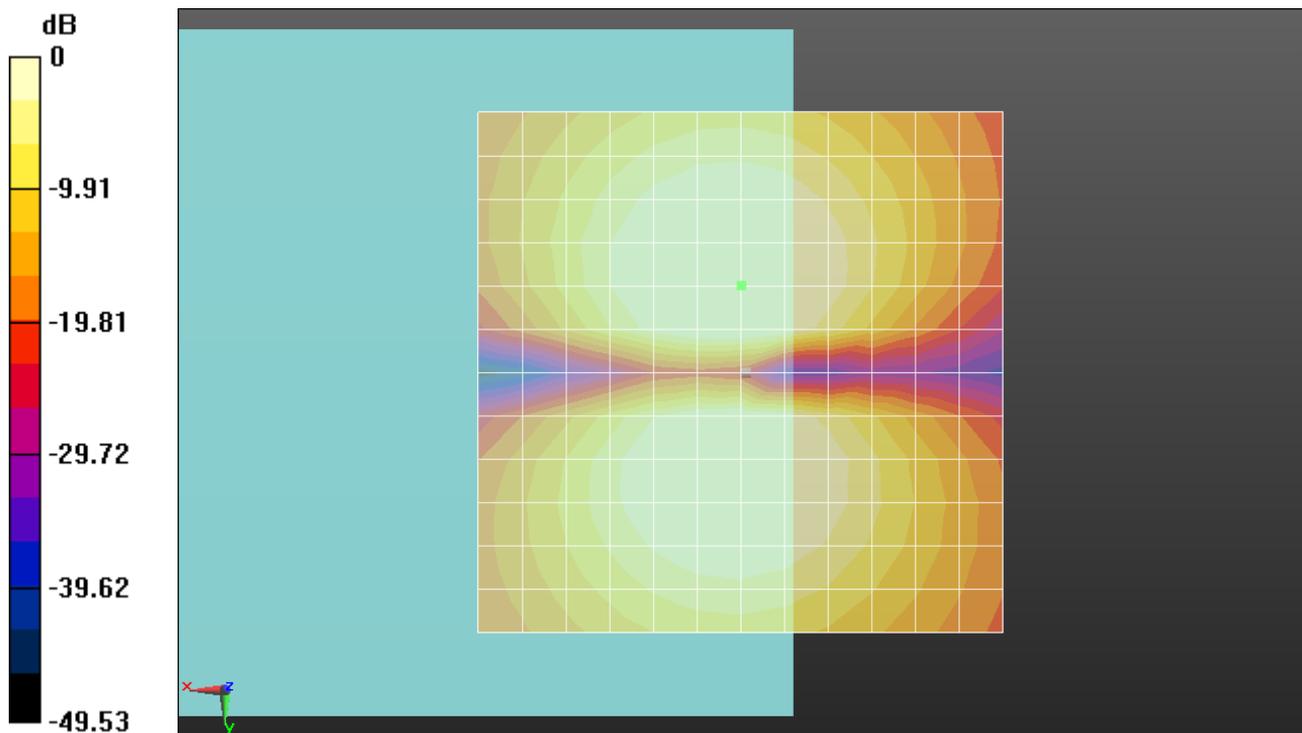
#### Ch4132/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 49.30 dB

ABM1 comp = 4.98 dBA/m

Location: 0, -8.3, 3.7 mm



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

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

Communication System: UMTS; 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 : 23.1 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

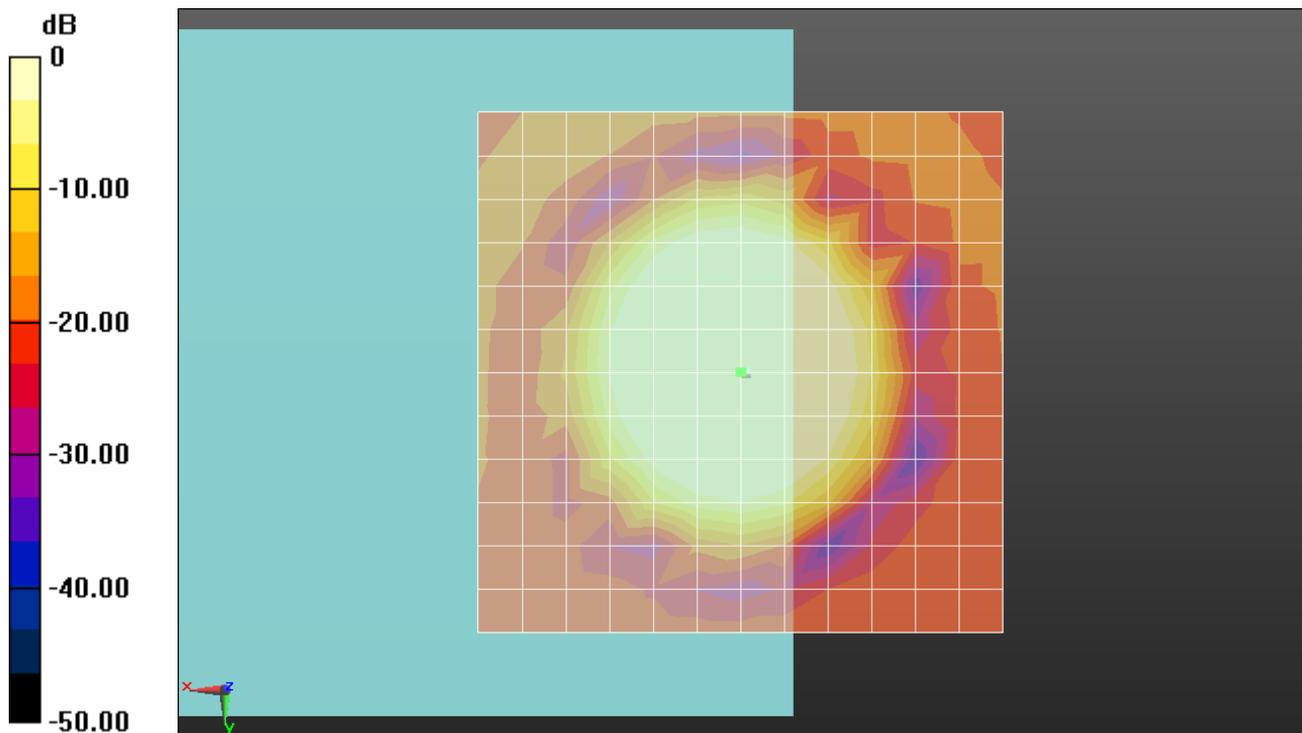
**Ch4182/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 54.09 dB

ABM1 comp = 13.73 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: 0.47dB



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

Communication System: UMTS; 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 : 23.1 °C

#### DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

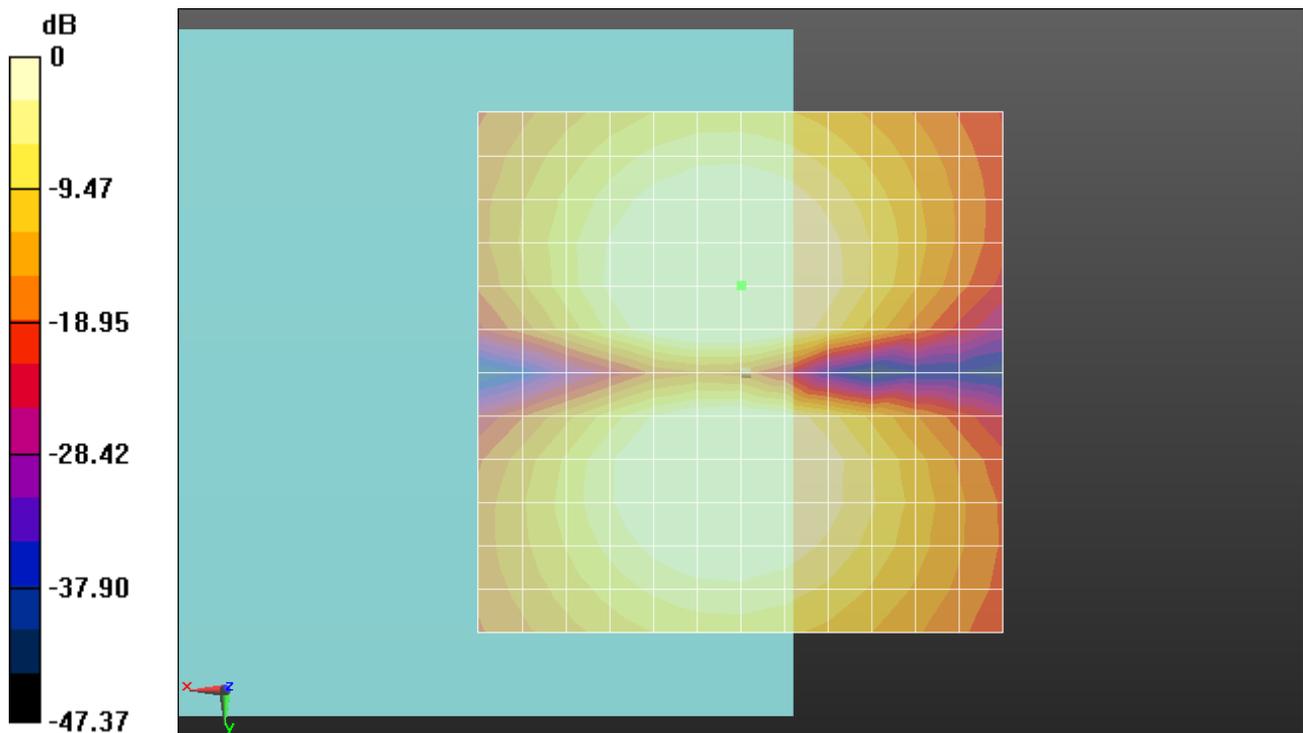
#### Ch4182/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 48.33 dB

ABM1 comp = 5.30 dBA/m

Location: 0, -8.3, 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: UMTS; 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 : 23.1 °C

**DASY5 Configuration:**

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

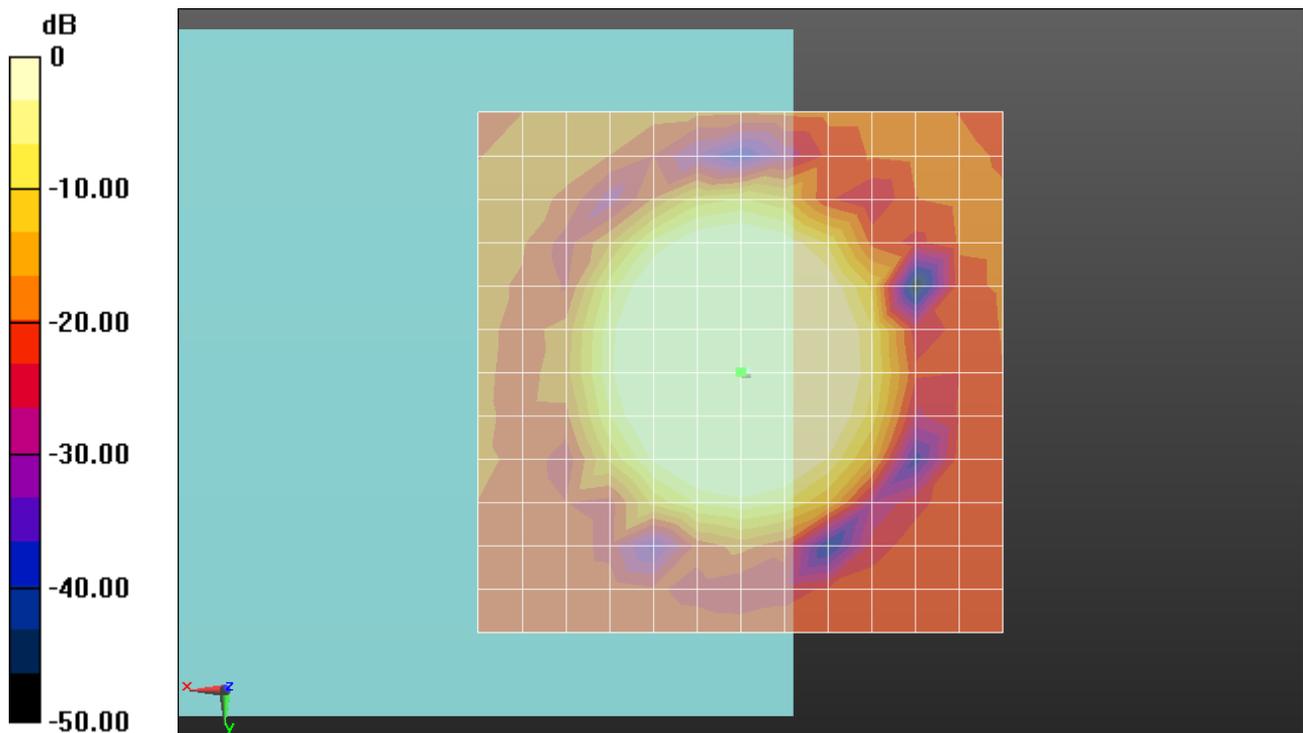
**Ch4233/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 54.31 dB

ABM1 comp = 13.81 dBA/m

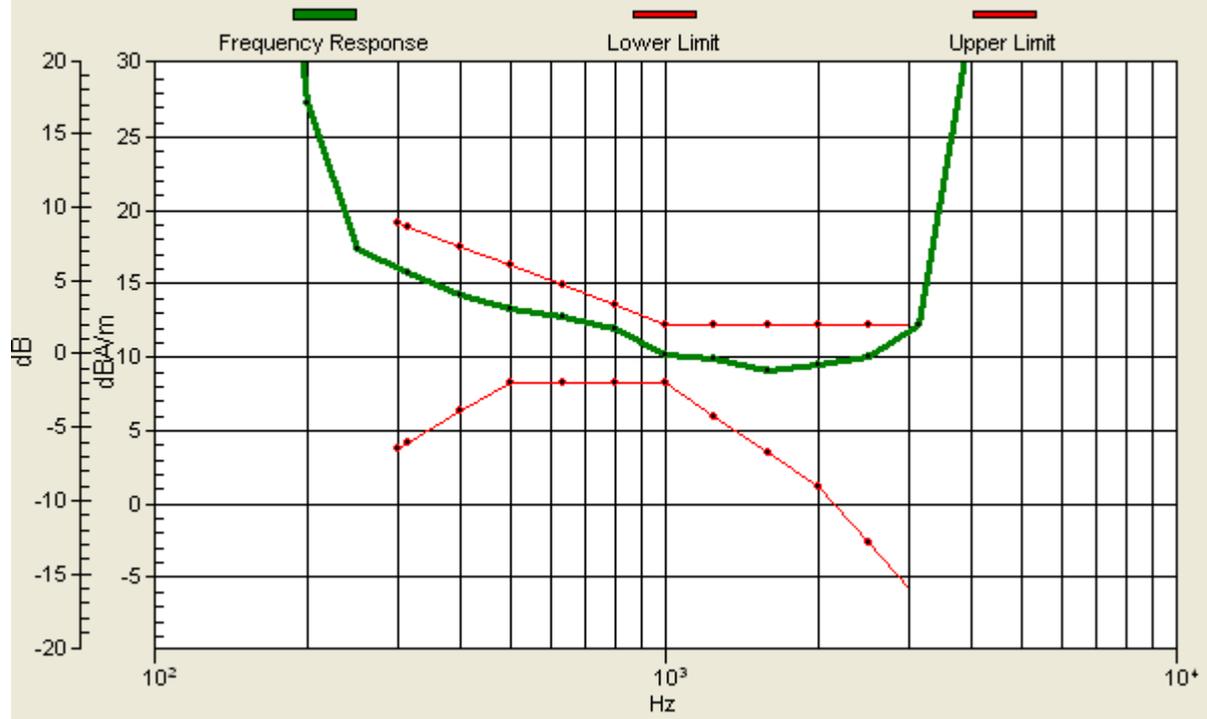
Location: 0, 0, 3.7 mm



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

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

Loc: 0, 0, 3.7 mm Diff: 0.55dB



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

Communication System: UMTS; 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 : 23.1 °C

**DASY5 Configuration:**

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

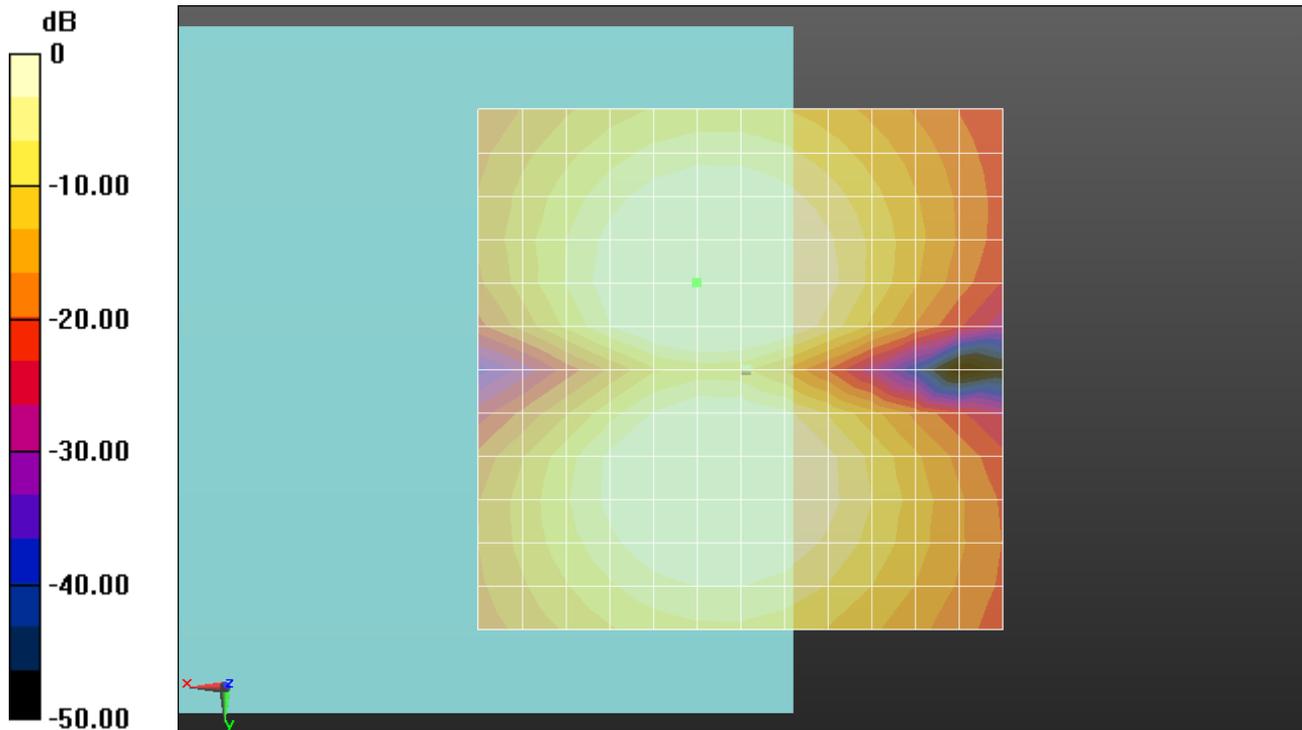
**Ch4233/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 47.86 dB

ABM1 comp = 5.61 dBA/m

Location: 4.2, -8.3, 3.7 mm



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

### #10 HAC T-Coil\_WCDMA Band IV\_Voice (speech codec low)\_Ch1312(Z)

Communication System: UMTS; Frequency: 1712.4 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 : 23.1 °C

#### DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

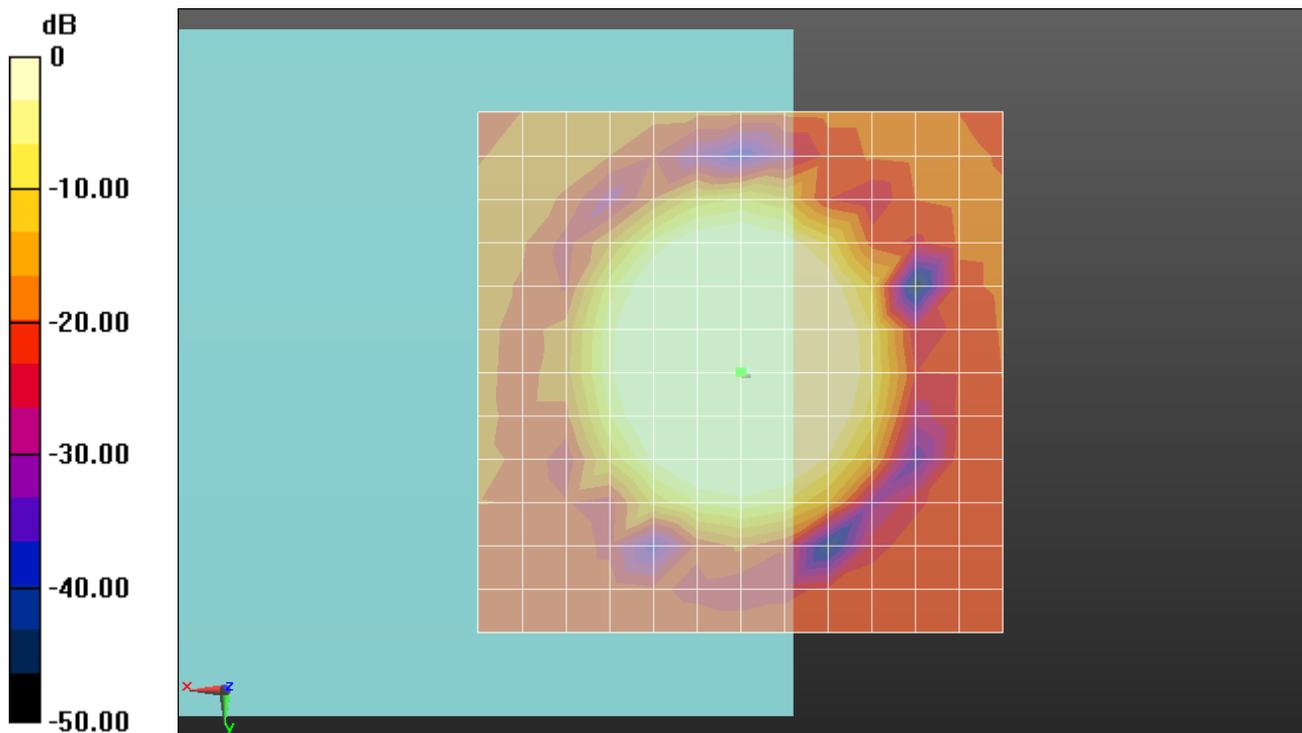
#### Ch1312/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 55.03 dB

ABM1 comp = 13.85 dBA/m

Location: 0, 0, 3.7 mm



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

# Ch1312/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: 0, 0, 3.7 mm Diff: 0.49dB



### #10 HAC T-Coil\_WCDMA Band IV\_Voice (speech codec low)\_Ch1312(Y)

Communication System: UMTS; Frequency: 1712.4 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 : 23.1 °C

#### DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

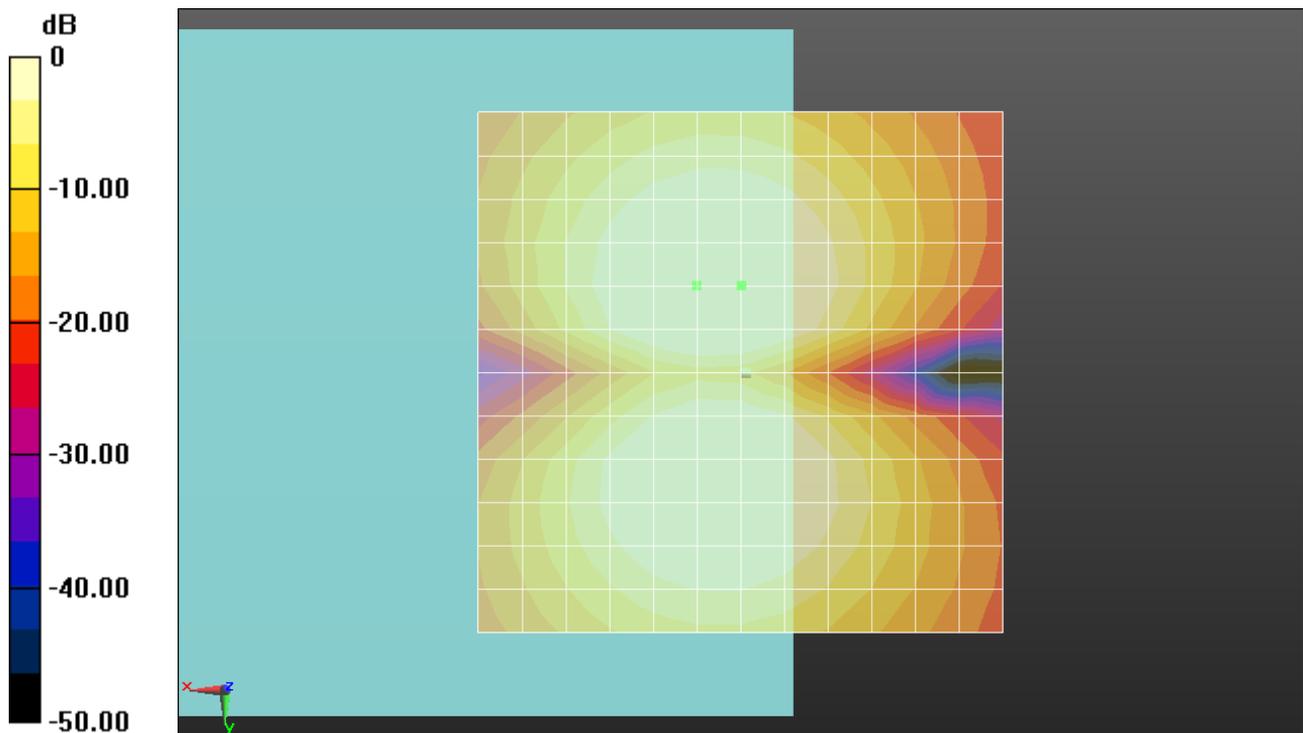
#### Ch1312/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 49.42 dB

ABM1 comp = 5.31 dBA/m

Location: 0, -8.3, 3.7 mm



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

### #11 HAC T-Coil\_WCDMA Band IV\_Voice (speech codec low)\_Ch1413(Z)

Communication System: UMTS; Frequency: 1732.6 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 : 23.1 °C

#### DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

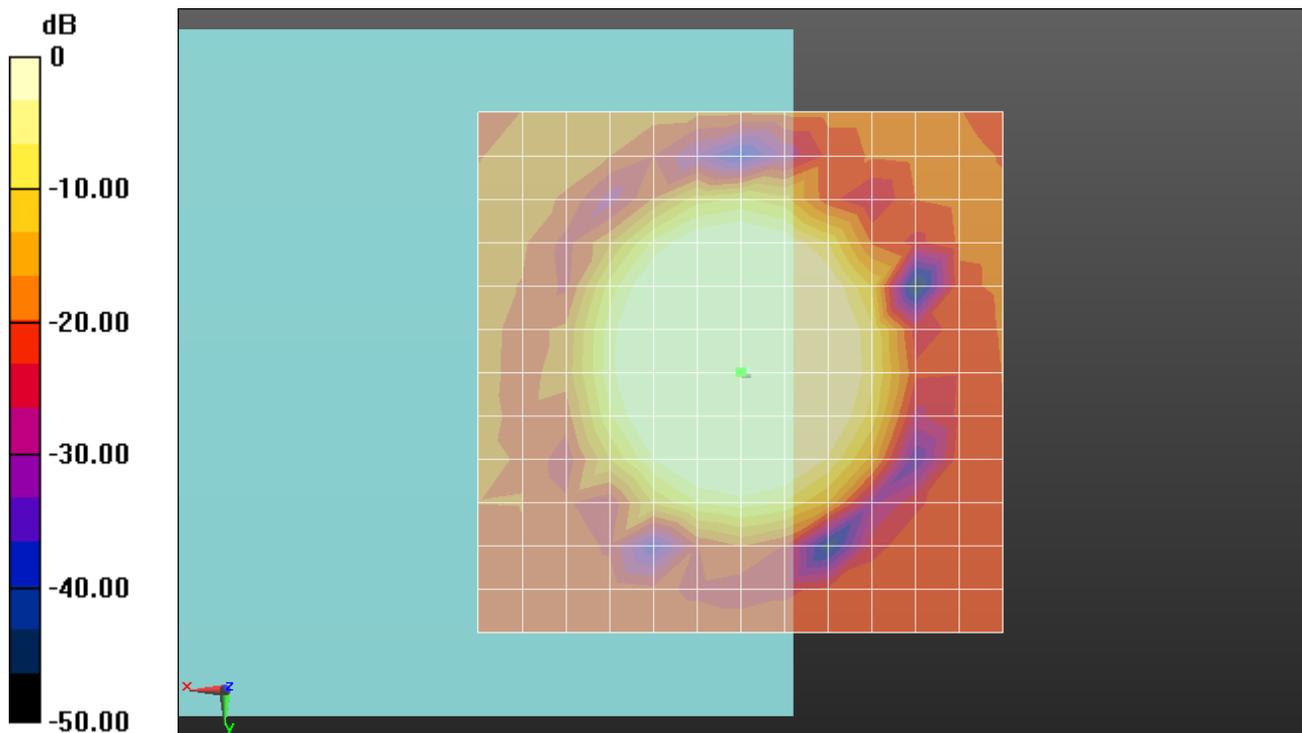
#### Ch1413/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 54.23 dB

ABM1 comp = 13.91 dBA/m

Location: 0, 0, 3.7 mm



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

# Ch1413/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: 0, 0, 3.7 mm Diff: 0.56dB



### #11 HAC T-Coil\_WCDMA Band IV\_Voice (speech codec low)\_Ch1413(Y)

Communication System: UMTS; Frequency: 1732.6 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 : 23.1 °C

#### DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

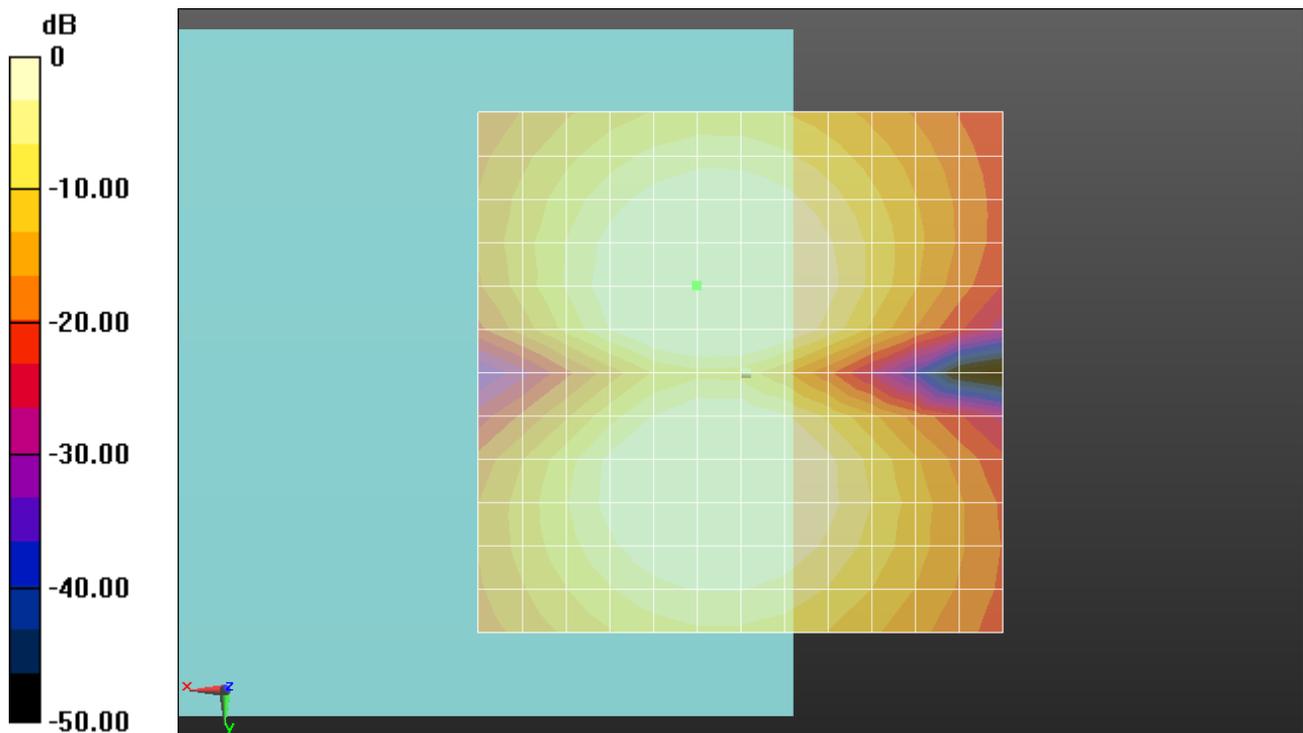
#### Ch1413/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 48.94 dB

ABM1 comp = 5.62 dBA/m

Location: 4.2, -8.3, 3.7 mm



**#12 HAC T-Coil\_WCDMA Band IV\_Voice (speech codec low)\_Ch1513(Z)**

Communication System: UMTS; Frequency: 1752.6 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 : 23.1 °C

**DASY5 Configuration:**

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

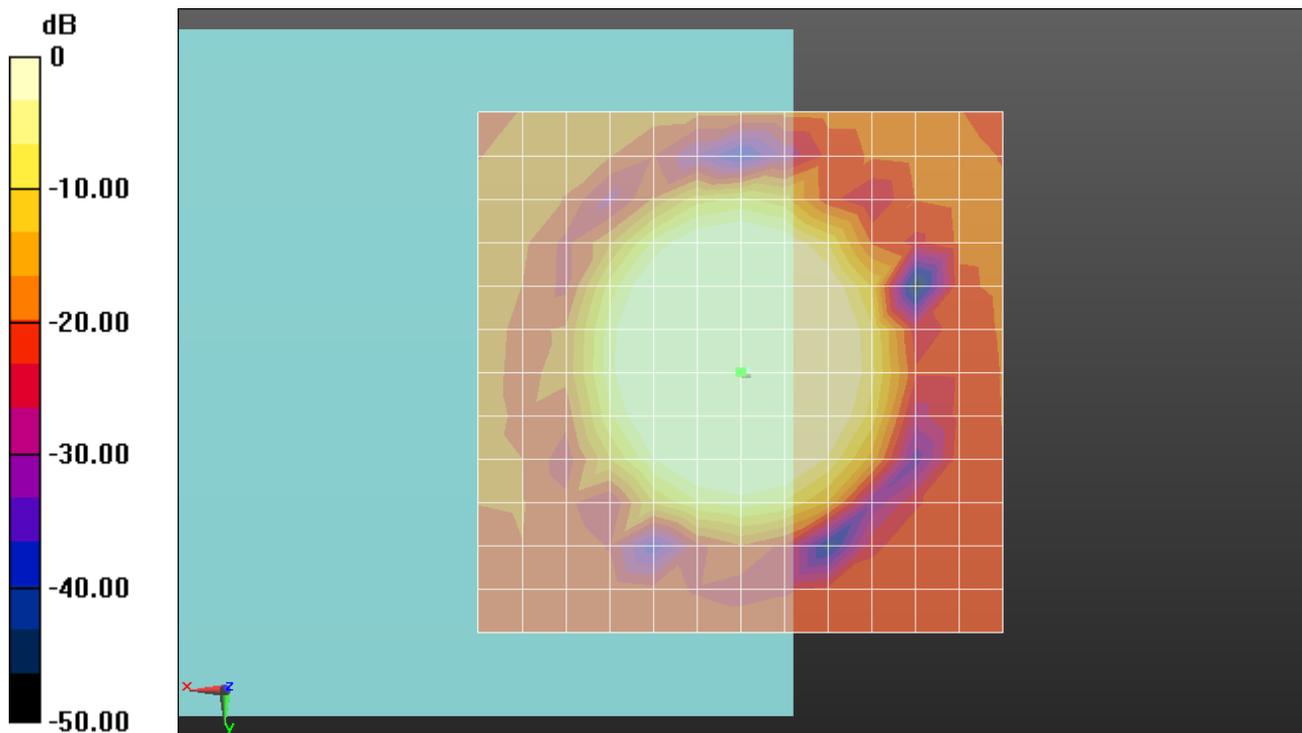
**Ch1513/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 54.91 dB

ABM1 comp = 13.94 dBA/m

Location: 0, 0, 3.7 mm



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

# Ch1513/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: 0, 0, 3.7 mm Diff: 0.48dB



### #12 HAC T-Coil\_WCDMA Band IV\_Voice (speech codec low)\_Ch1513(Y)

Communication System: UMTS; Frequency: 1752.6 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 : 23.1 °C

#### DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

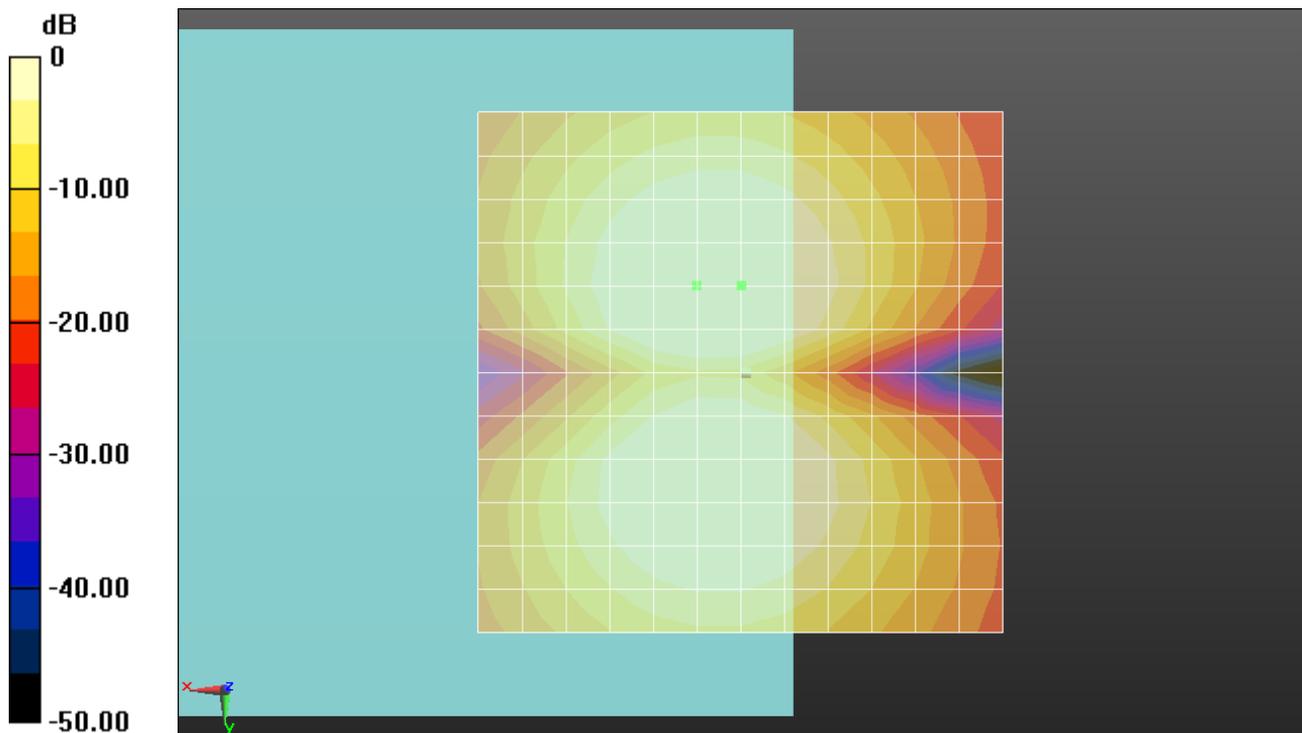
#### Ch1513/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 49.32 dB

ABM1 comp = 5.33 dBA/m

Location: 0, -8.3, 3.7 mm



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

### #13 HAC T-Coil\_WCDMA Band II\_Voice (speech codec low)\_Ch9262(Z)

Communication System: UMTS; 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 : 23.1 °C

#### DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

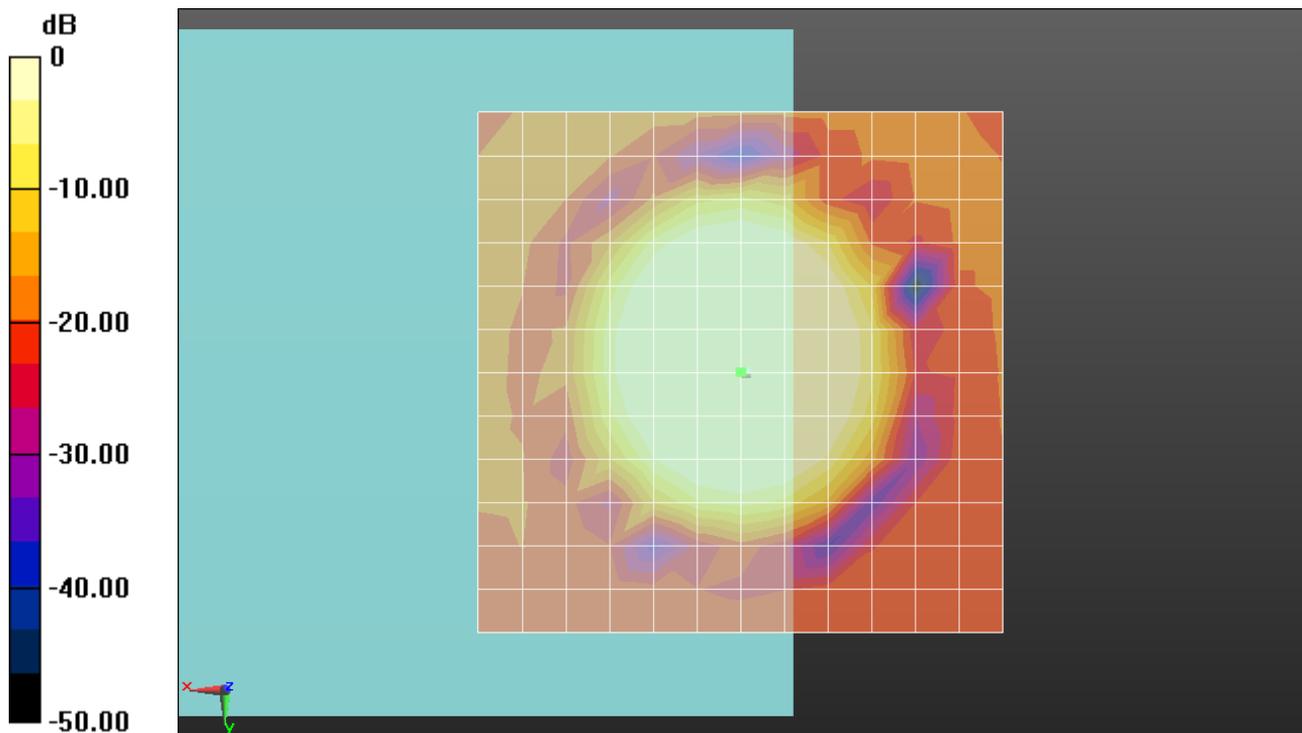
#### Ch9262/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 53.88 dB

ABM1 comp = 14.02 dBA/m

Location: 0, 0, 3.7 mm



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

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

Loc: 0, 0, 3.7 mm Diff: 0.49dB



### #13 HAC T-Coil\_WCDMA Band II\_Voice (speech codec low)\_Ch9262(Y)

Communication System: UMTS; 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 : 23.1 °C

#### DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

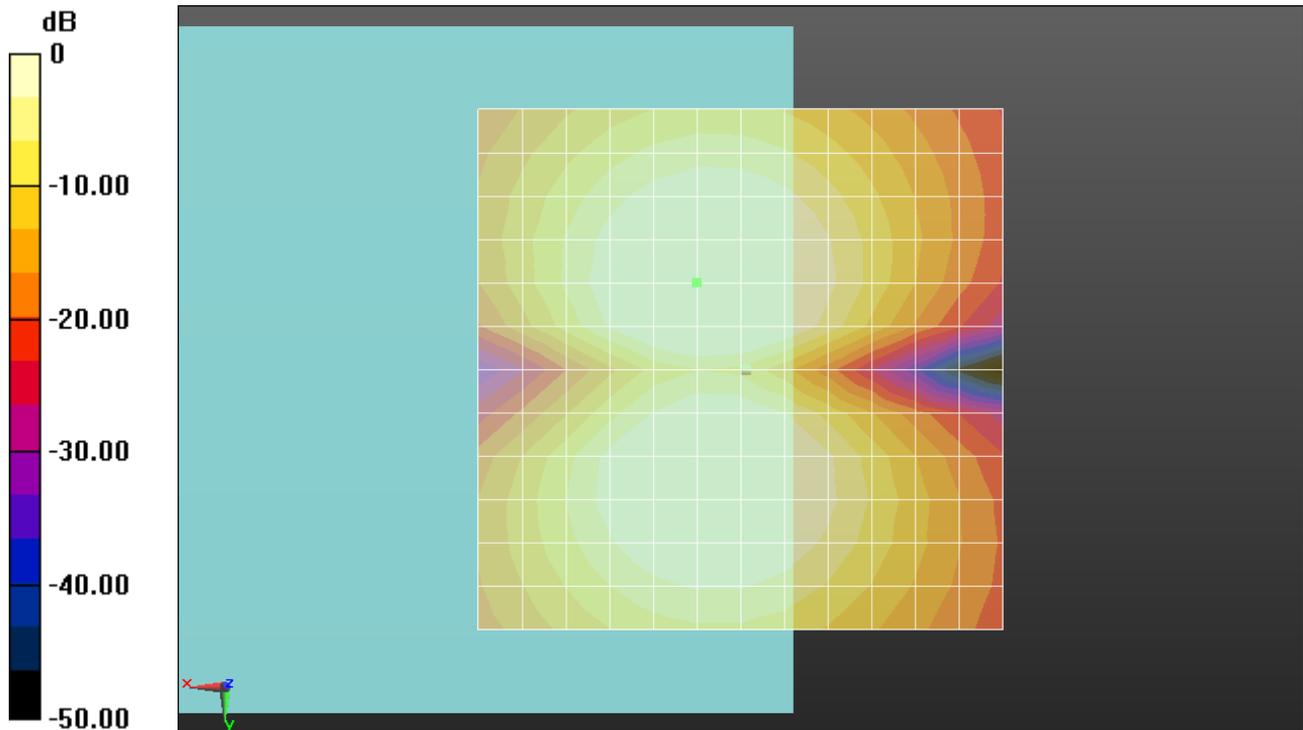
#### Ch9262/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 49.47 dB

ABM1 comp = 5.75 dBA/m

Location: 4.2, -8.3, 3.7 mm



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

### #14 HAC T-Coil\_WCDMA Band II\_Voice (speech codec low)\_Ch9400(Z)

Communication System: UMTS; 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 : 23.1 °C

#### DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

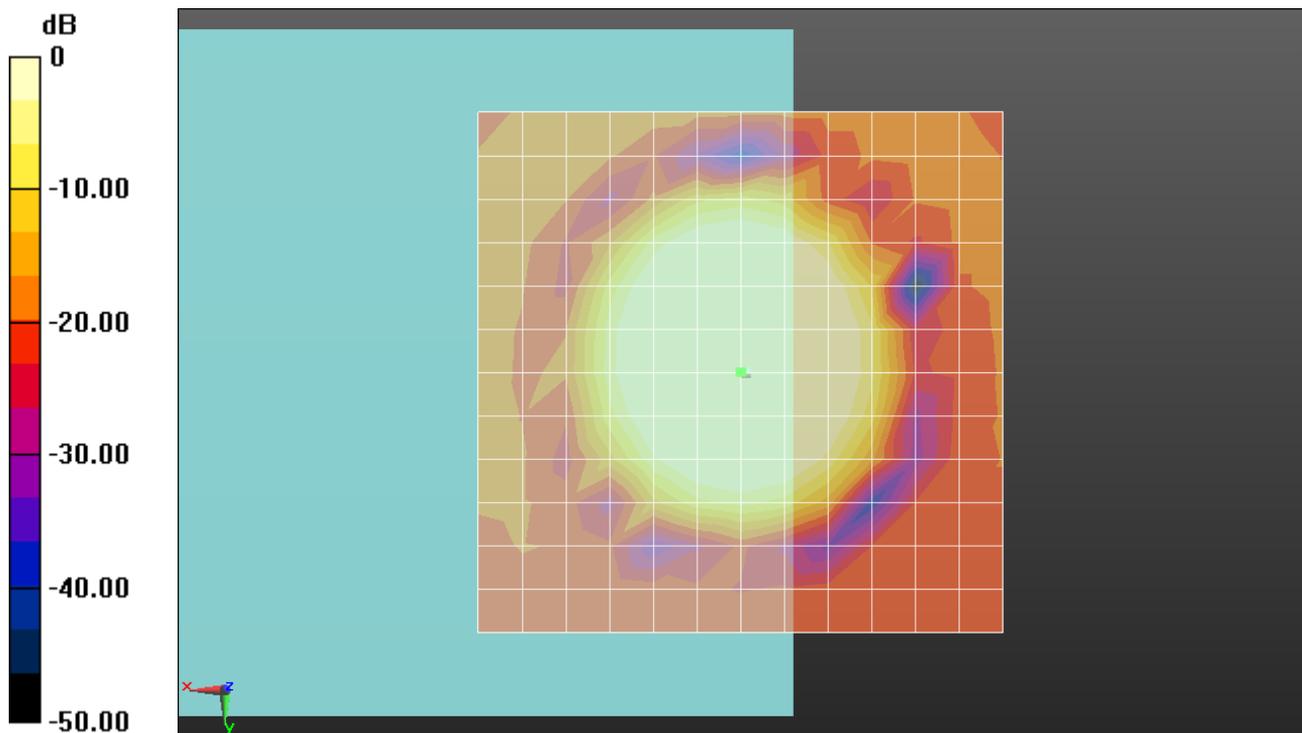
#### Ch9400/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 54.24 dB

ABM1 comp = 14.14 dBA/m

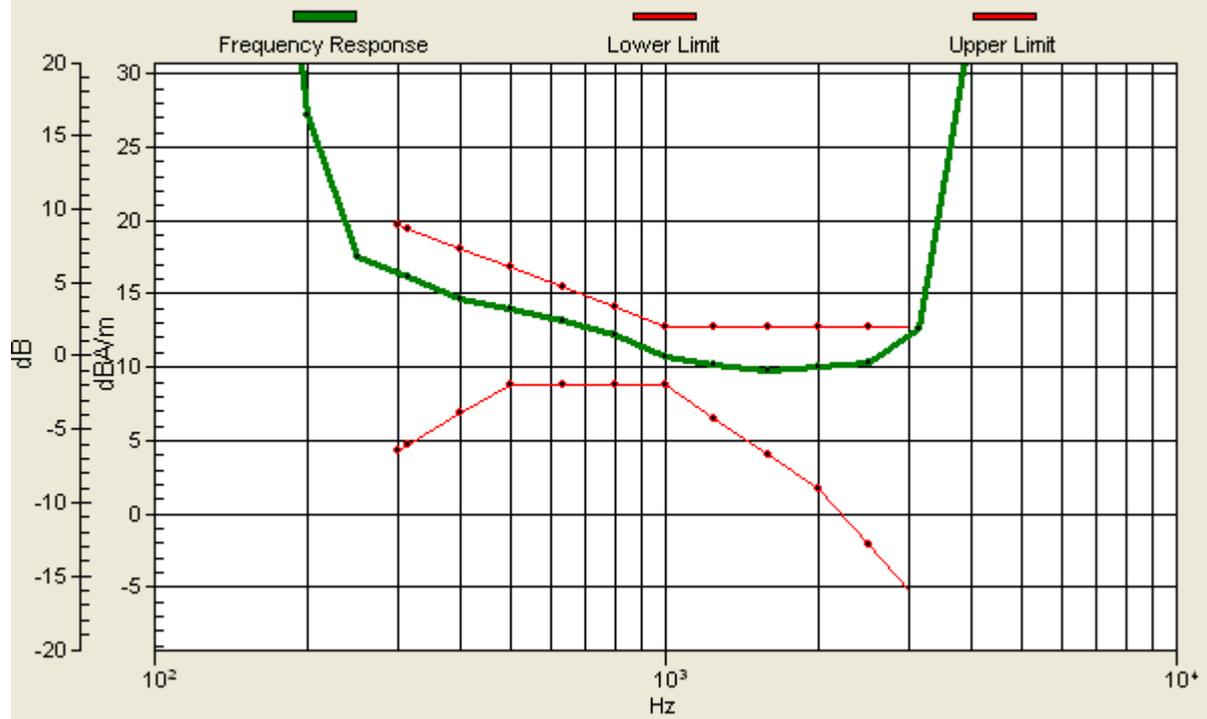
Location: 0, 0, 3.7 mm



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

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

Loc: 0, 0, 3.7 mm Diff: 0.7dB



**#14 HAC T-Coil\_WCDMA Band II\_Voice (speech codec low)\_Ch9400(Y)**

Communication System: UMTS; 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 : 23.1 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

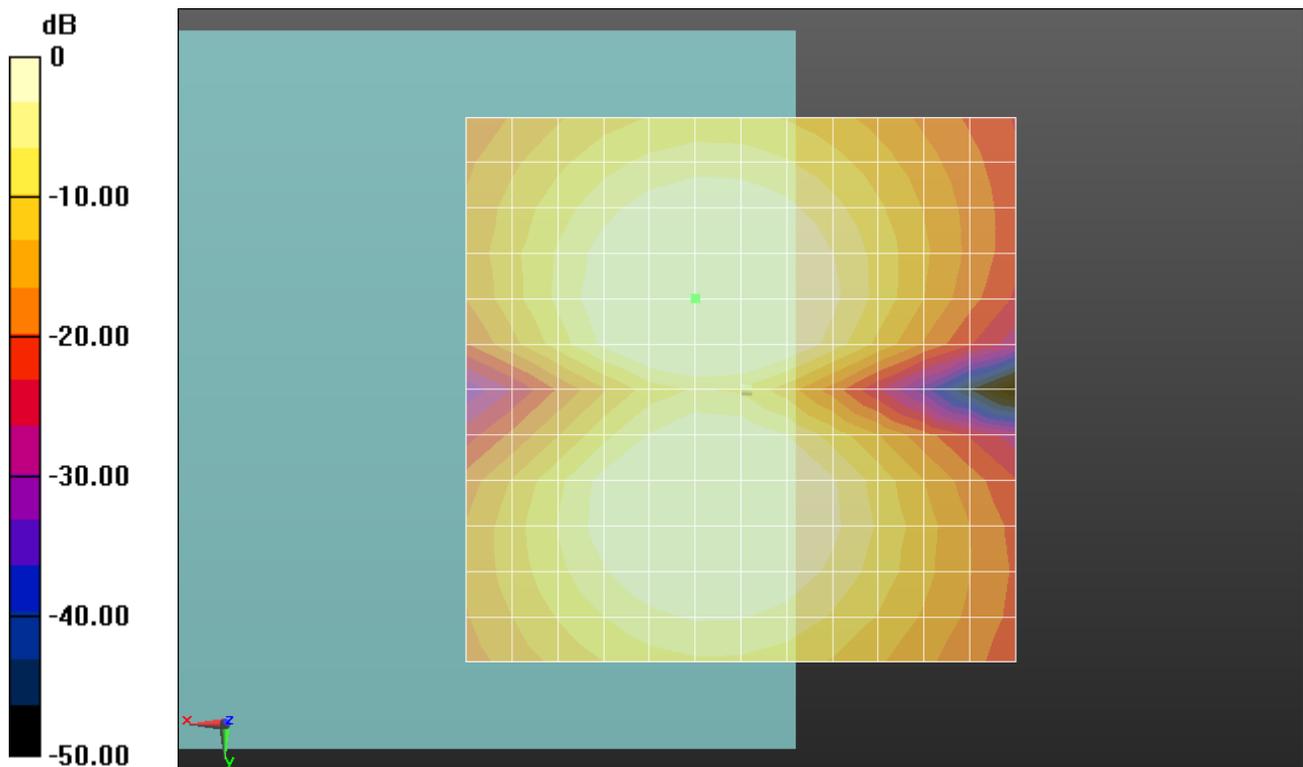
**Ch9400/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 48.28 dB

ABM1 comp = 5.84 dBA/m

Location: 4.2, -8.3, 3.7 mm



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

### #15 HAC T-Coil\_WCDMA Band II\_Voice (speech codec low)\_Ch9538(Z)

Communication System: UMTS; 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 : 23.1 °C

#### DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

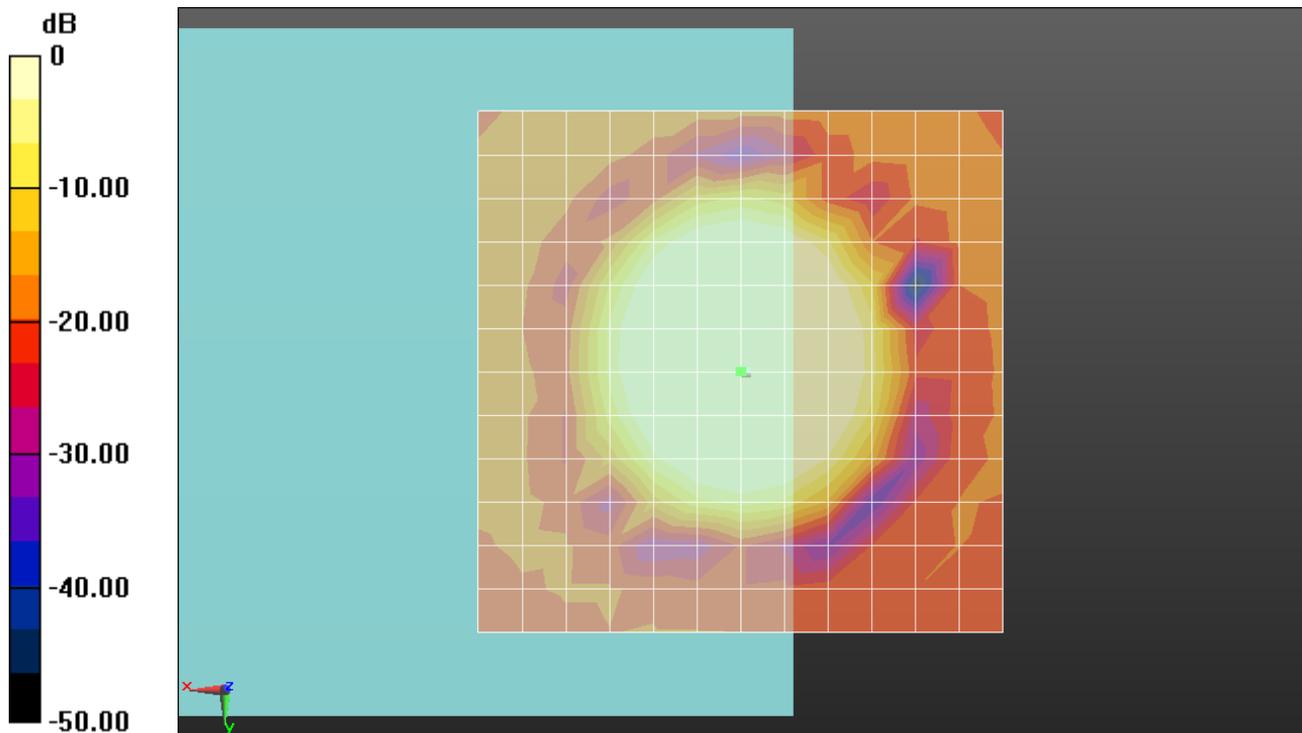
#### Ch9538/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 54.97 dB

ABM1 comp = 14.49 dBA/m

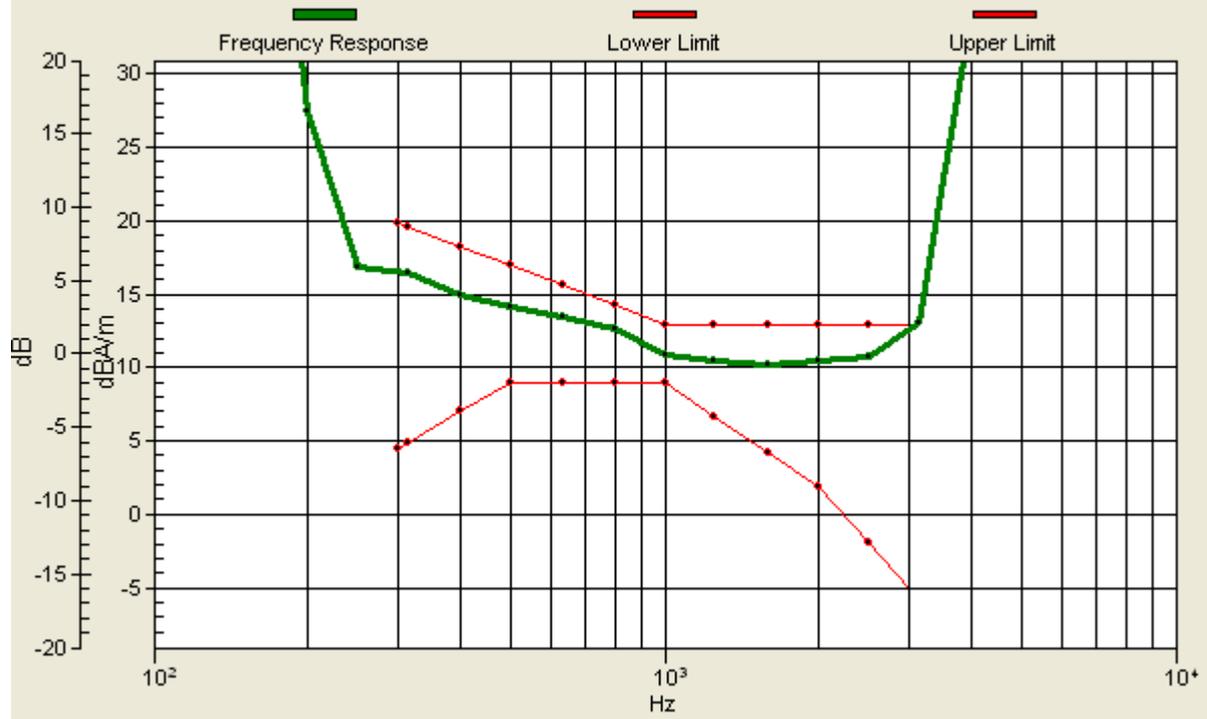
Location: 0, 0, 3.7 mm



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

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

Loc: 0, 0, 3.7 mm Diff: 0.4dB



### #15 HAC T-Coil\_WCDMA Band II\_Voice (speech codec low)\_Ch9538(Y)

Communication System: UMTS; 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 : 23.1 °C

#### DASY5 Configuration:

- Probe: AM1DV3 - 3093; ; Calibrated: 2013.05.07
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013.06.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

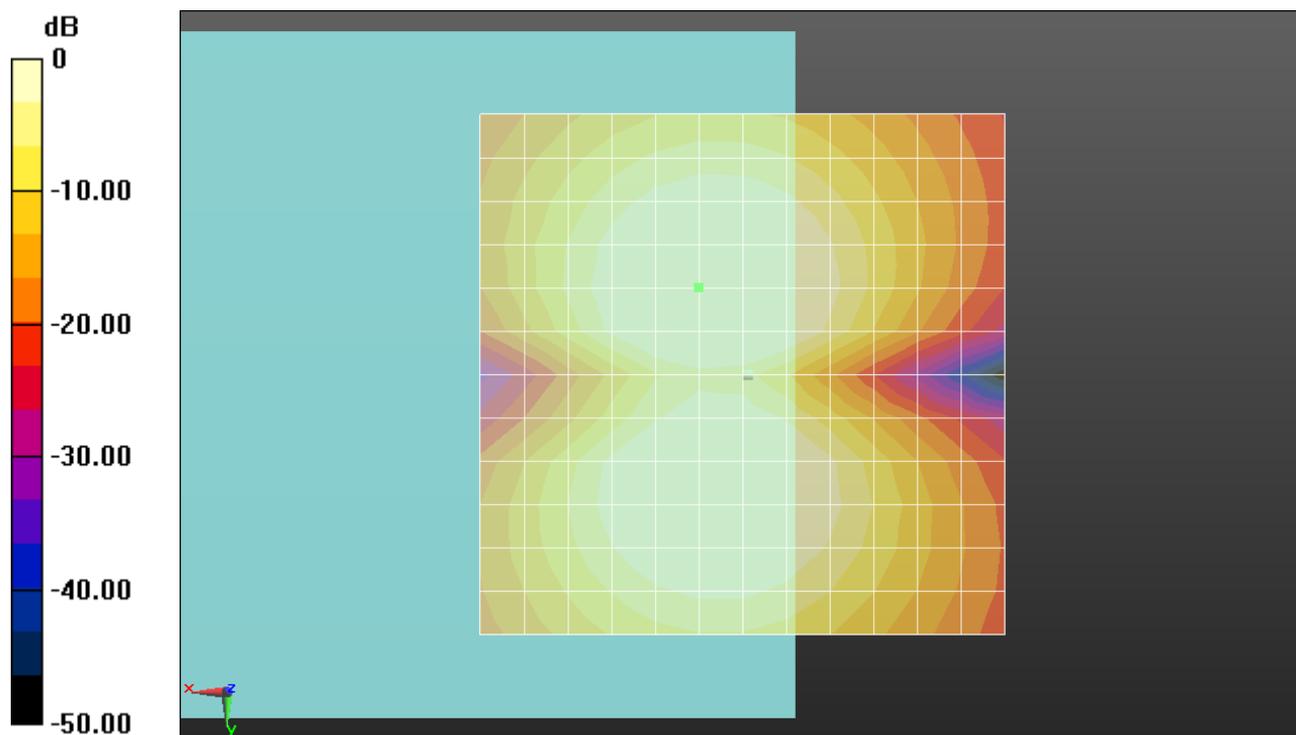
#### Ch9538/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 48.99 dB

ABM1 comp = 5.86 dBA/m

Location: 4.2, -8.3, 3.7 mm



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