

**#01\_HAC\_T-Coil\_GSM850\_Voice (speech codec handset low)\_Ch189\_Axial (Z)**

Communication System: GSM850 ; Frequency: 836.4 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

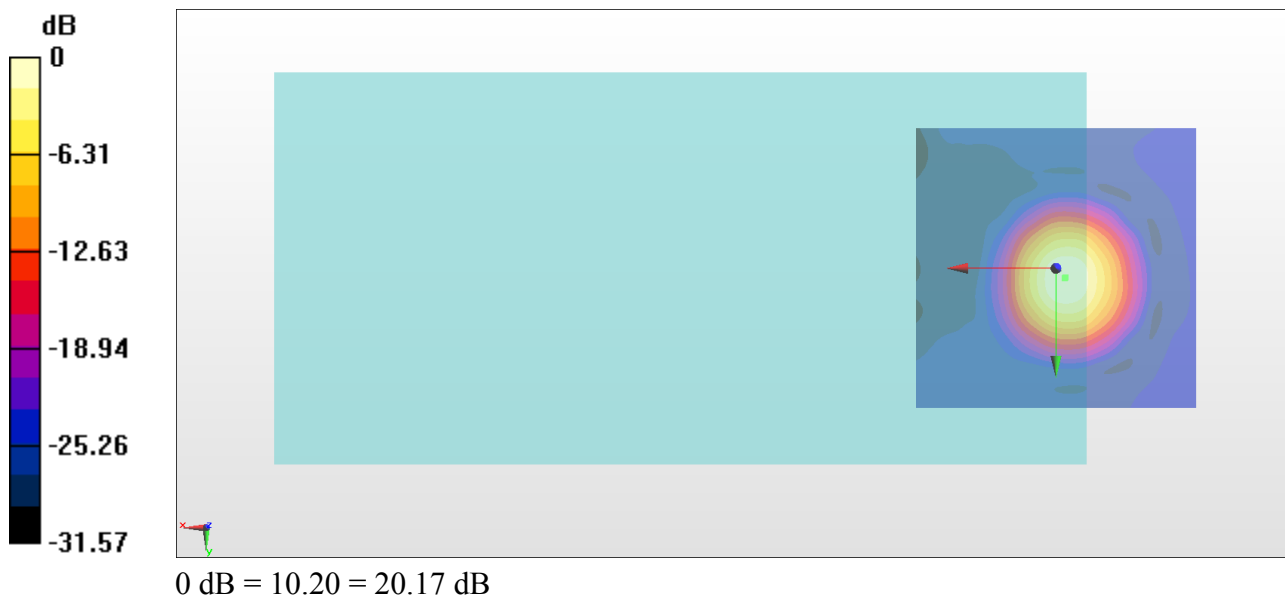
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 20.17 dB

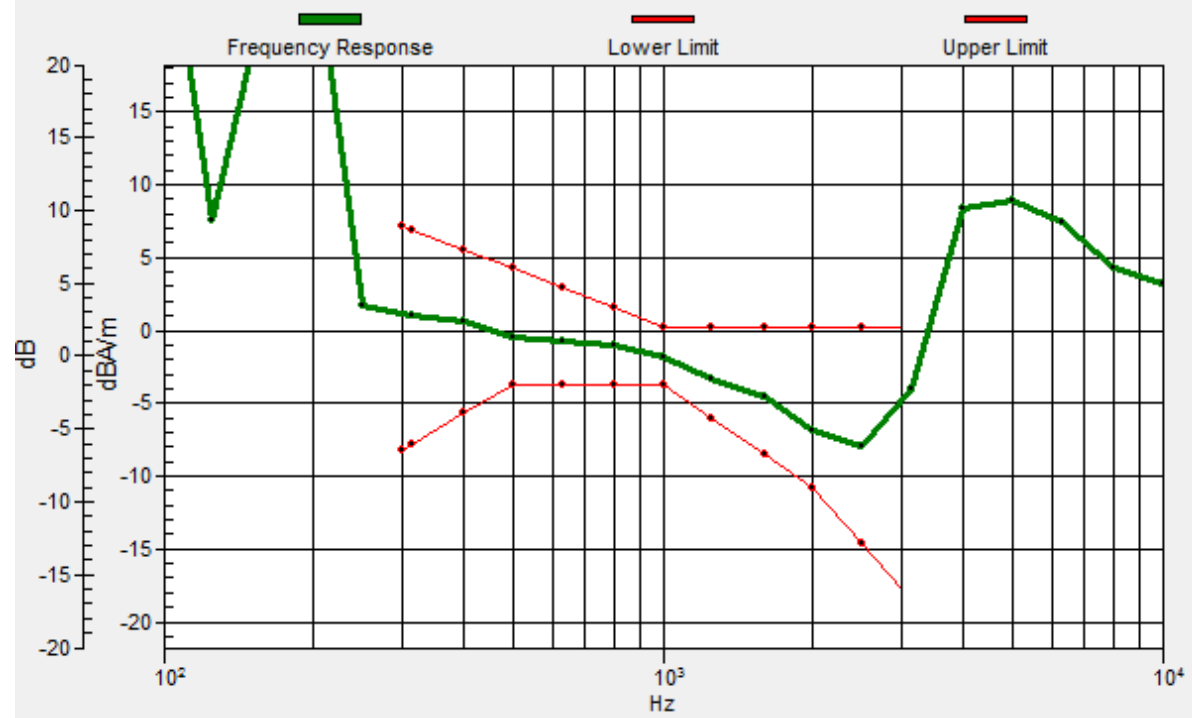
ABM1 comp = -2.67 dBA/m

Location: -1.7, 1.7, 3.7 mm



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

Loc: -1.6, 1.8, 3.7 mm Diff: 2dB



**#01\_HAC\_T-Coil\_GSM850\_Voice (speech codec handset low)\_Ch189\_Transversal (Y)**

Communication System: GSM850 ; Frequency: 836.4 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

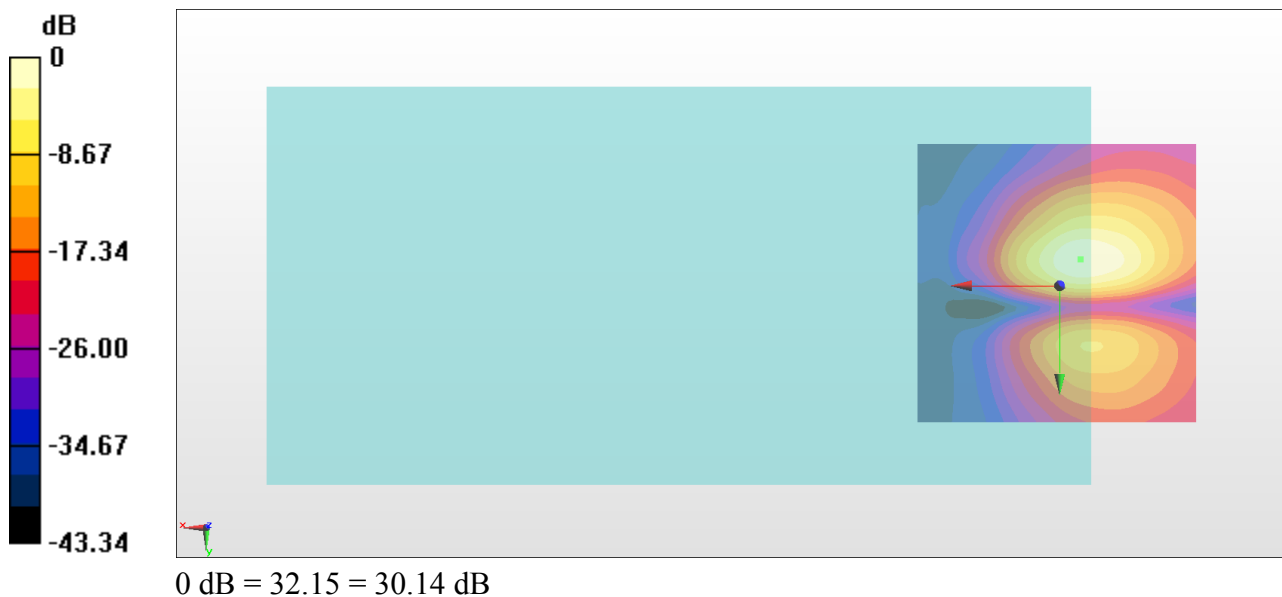
**General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 30.14 dB

ABM1 comp = -12.06 dBA/m

Location: -3.7, -4.7, 3.7 mm



**#02\_HAC\_T-Coil\_GSM1900\_Voice (speech codec handset low)\_Ch661\_Axial (Z)**

Communication System: PCS ; Frequency: 1880 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

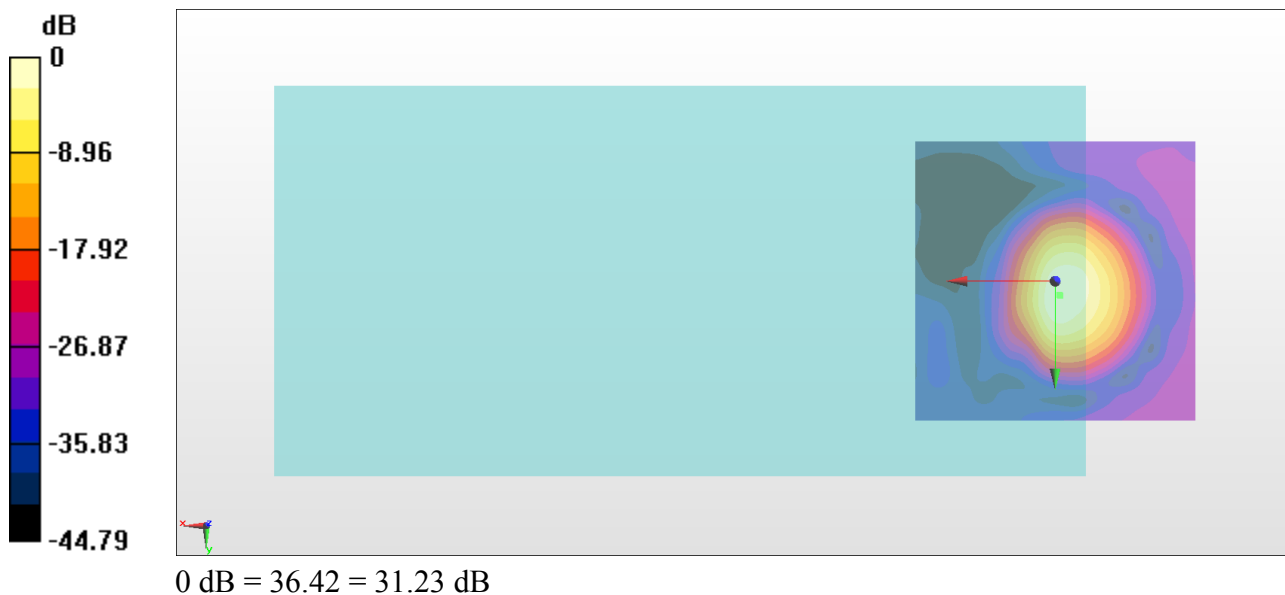
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 31.23 dB

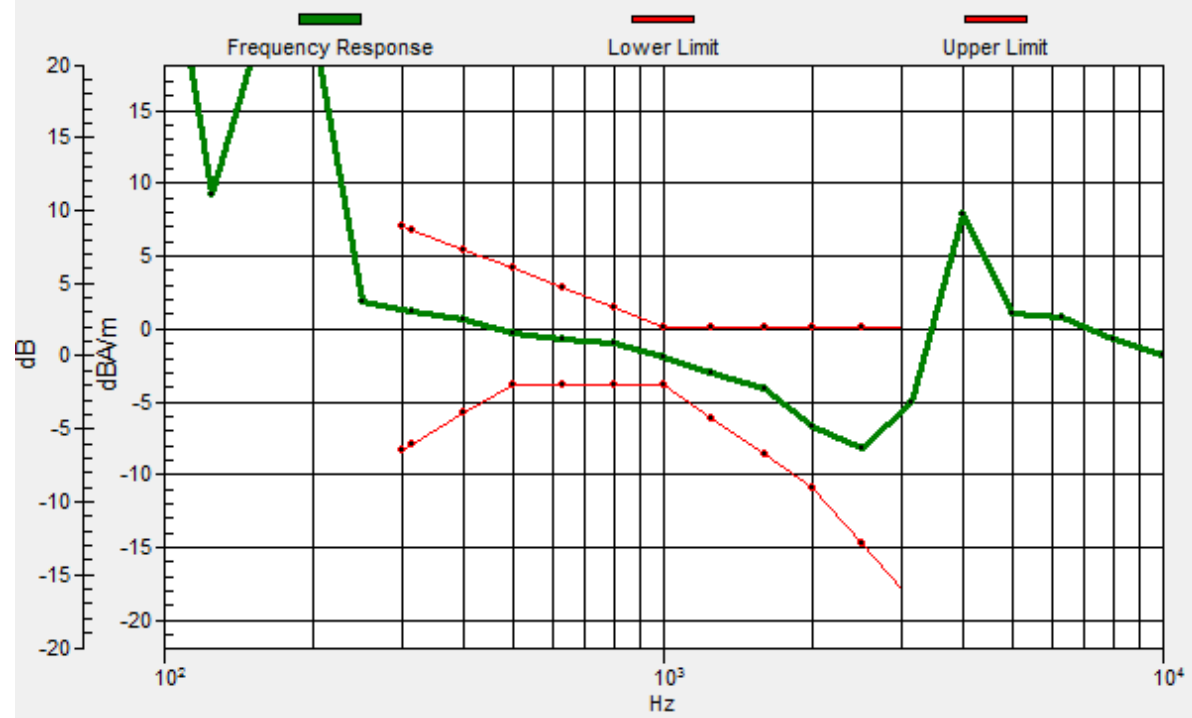
ABM1 comp = -2.72 dBA/m

Location: -0.8, 2.5, 3.7 mm



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

Loc: -1, 2.6, 3.7 mm Diff: 2dB



**#02\_HAC\_T-Coil\_GSM1900\_Voice (speech codec handset low)\_Ch661\_Transversal (Y)**

Communication System: PCS ; Frequency: 1880 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

**General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 27.85 dB

ABM1 comp = -12.52 dBA/m

Location: -4.6, -5.4, 3.7 mm



**#03\_HAC\_T-Coil\_WCDMA II\_Voice (speech codec low)\_Ch9400\_Axial (Z)**

Communication System: WCDMA ; Frequency: 1880 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

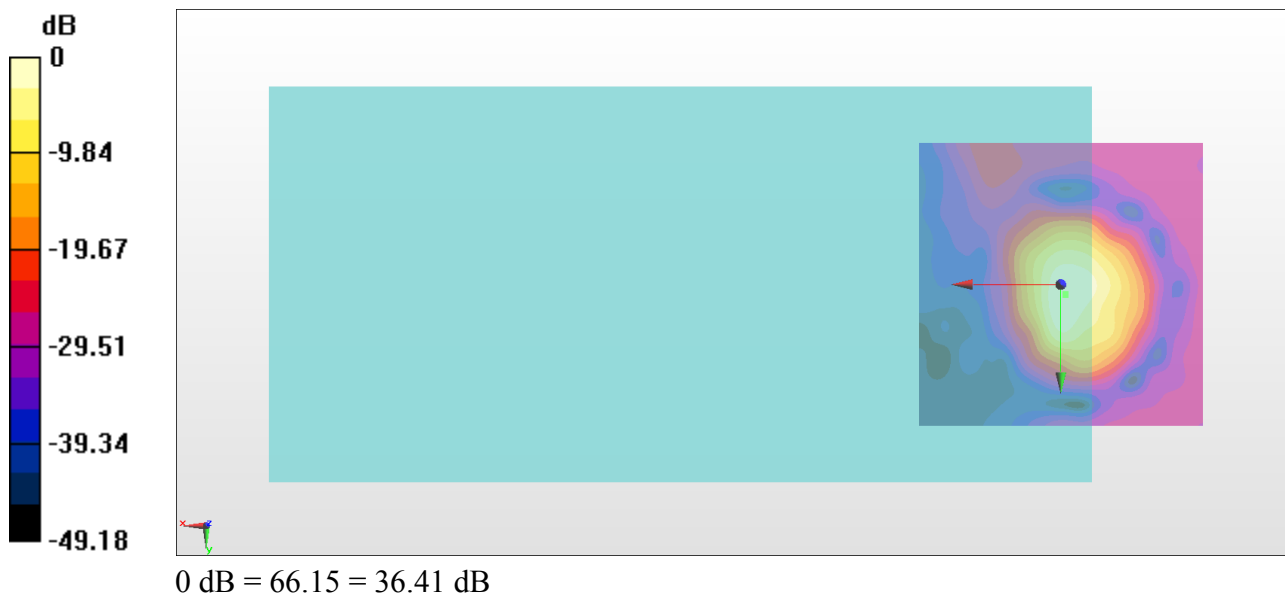
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 36.41 dB

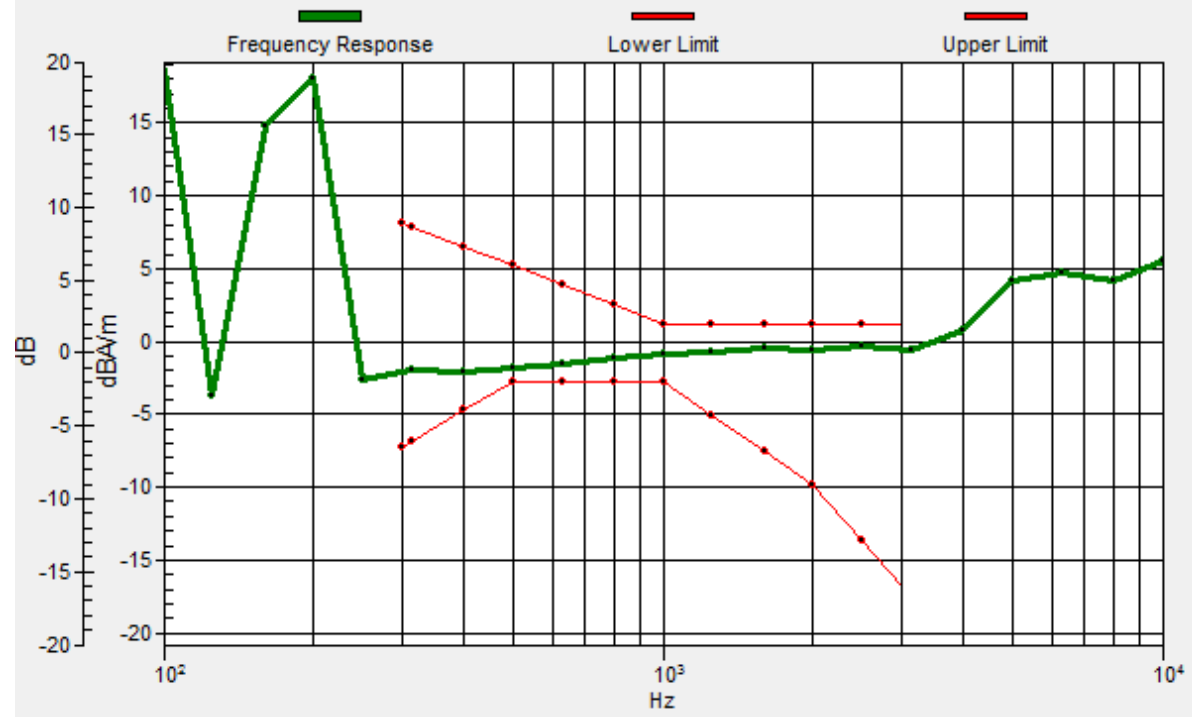
ABM1 comp = -0.92 dBA/m

Location: -0.8, 1.7, 3.7 mm



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

Loc: -0.8, 1.9, 3.7 mm Diff: 0.94dB





**#03\_HAC\_T-Coil\_WCDMA II\_Voice (speech codec low)\_Ch9400\_Transversal (Y)**

Communication System: WCDMA ; Frequency: 1880 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

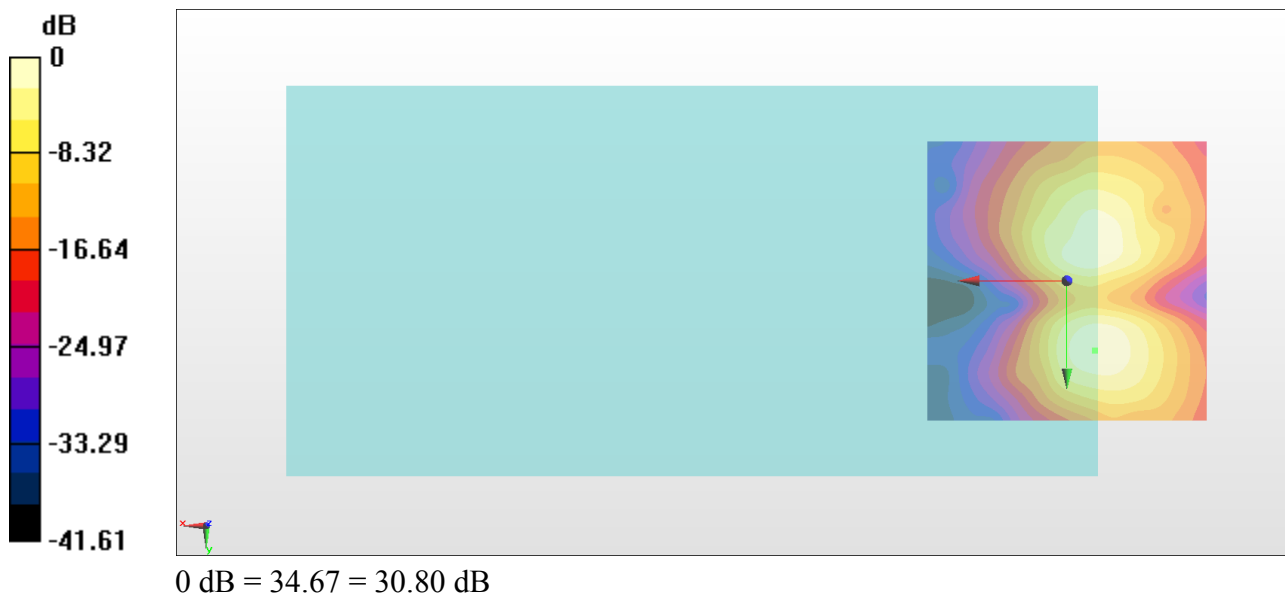
**General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 30.80 dB

ABM1 comp = -11.48 dBA/m

Location: -5, 12.5, 3.7 mm



**#04\_HAC\_T-Coil\_WCDMA IV\_Voice (speech codec low)\_Ch1413\_Axial (Z)**

Communication System: WCDMA ; Frequency: 1732.6 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

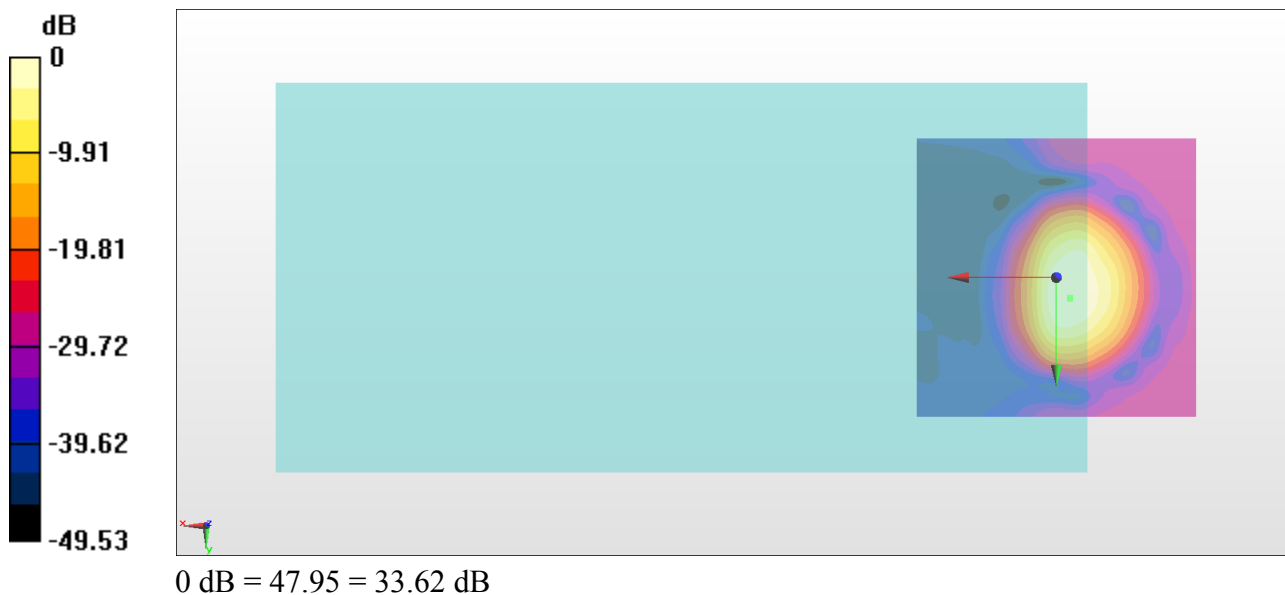
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 33.62 dB

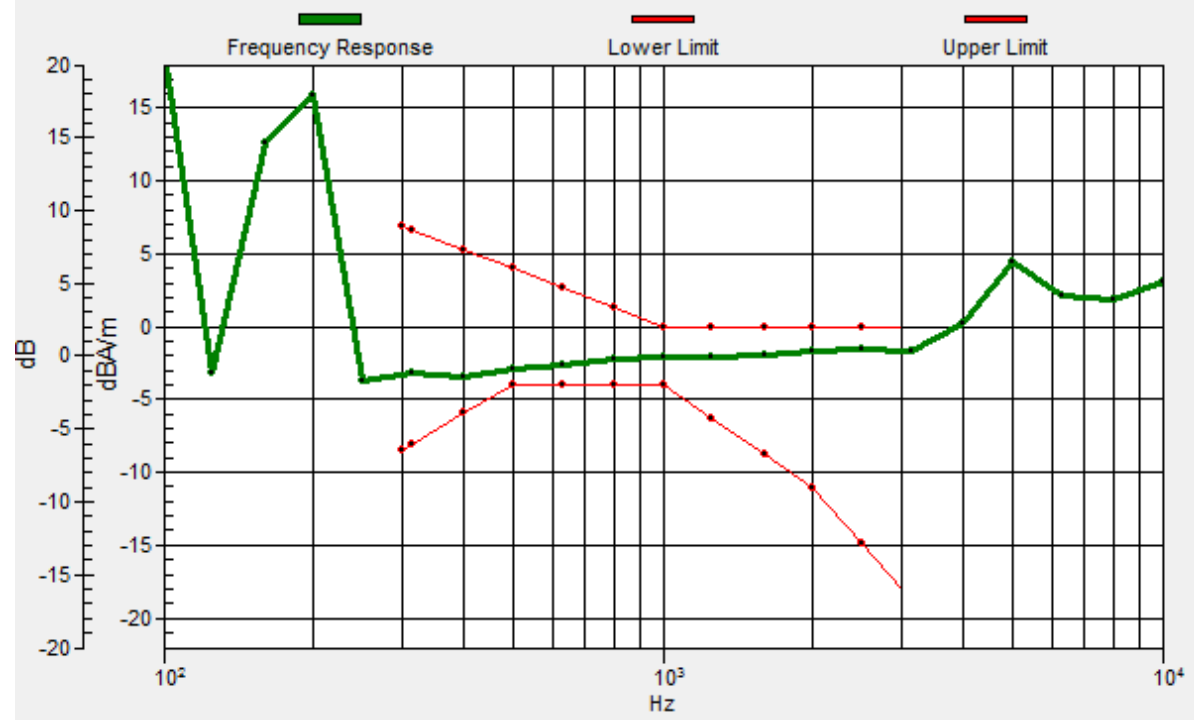
ABM1 comp = -2.09 dBA/m

Location: -2.5, 3.7, 3.7 mm



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

Loc: -2.5, 3.6, 3.7 mm Diff: 1.1dB



**#04\_HAC\_T-Coil\_WCDMA IV\_Voice (speech codec low)\_Ch1413\_Transversal (Y)**

Communication System: WCDMA ; Frequency: 1732.6 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

**General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 29.93 dB

ABM1 comp = -10.83 dBA/m

Location: -4.6, -5.8, 3.7 mm



**#05\_HAC\_T-Coil\_WCDMA V\_Voice (speech codec low)\_Ch4182\_Axial (Z)**

Communication System: WCDMA ; Frequency: 836.4 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

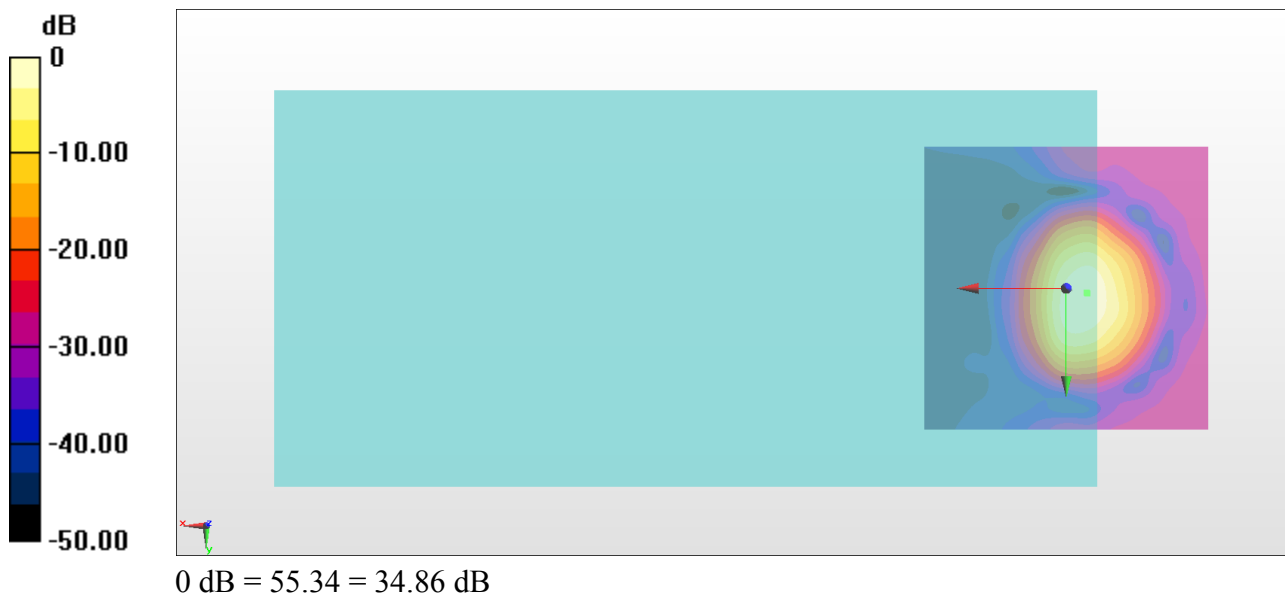
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 34.86 dB

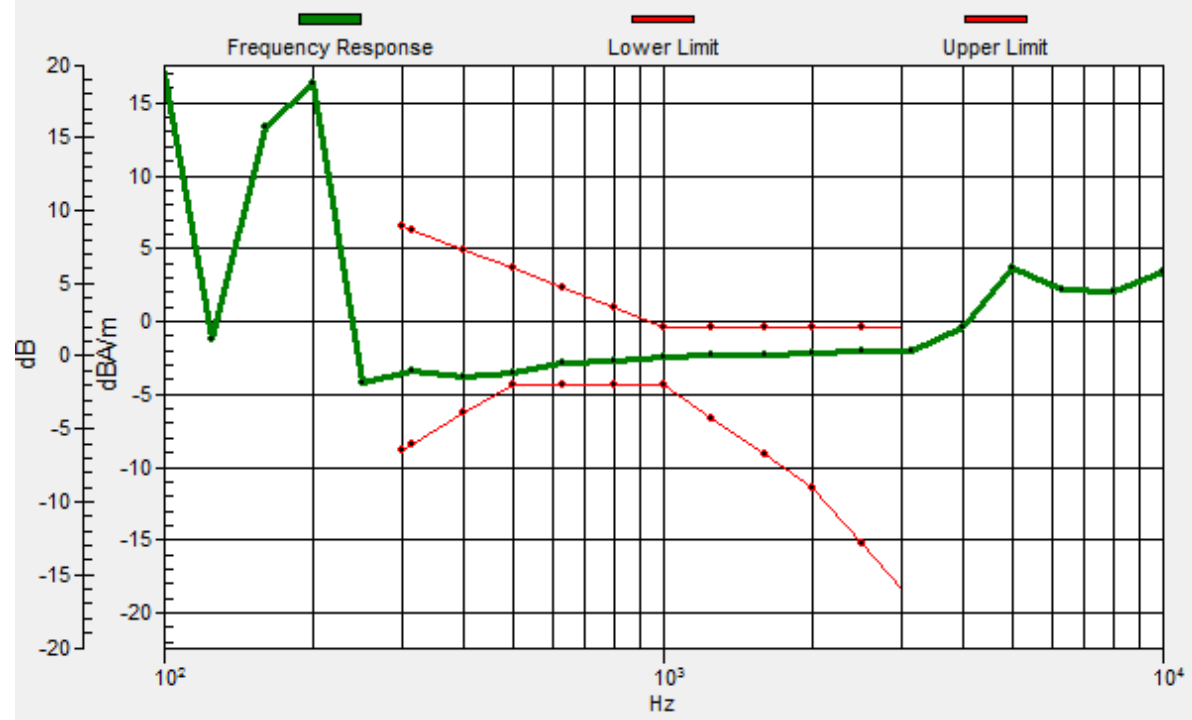
ABM1 comp = -2.43 dBA/m

Location: -3.7, 0.8, 3.7 mm



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

Loc: -3.6, 0.8, 3.7 mm Diff: 0.88dB



**#05\_HAC\_T-Coil\_WCDMA V\_Voice (speech codec low)\_Ch4182\_Transversal (Y)**

Communication System: WCDMA ; Frequency: 836.4 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

**General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 29.65 dB

ABM1 comp = -11.42 dBA/m

Location: -5.4, -5.8, 3.7 mm



**#06\_HAC\_T-Coil\_LTE Band 2\_20M\_QPSK\_1RB\_0offset\_EVS  
WB5.9Kbps\_Ch18900\_Axial (Z)**

Communication System: LTE ; Frequency: 1880 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

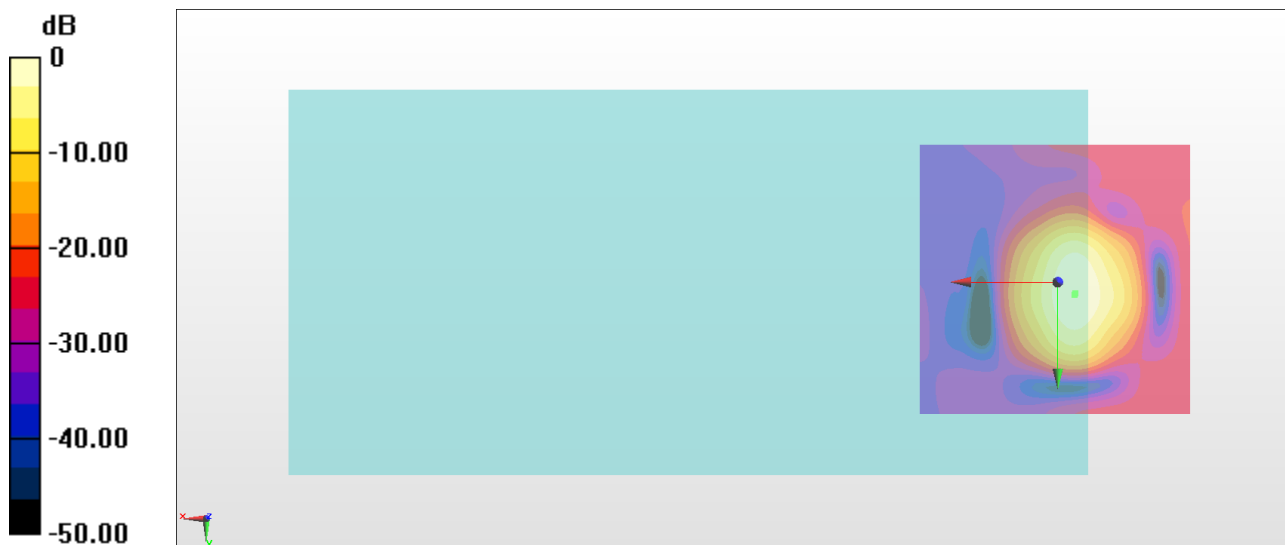
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 32.49 dB

ABM1 comp = -1.04 dBA/m

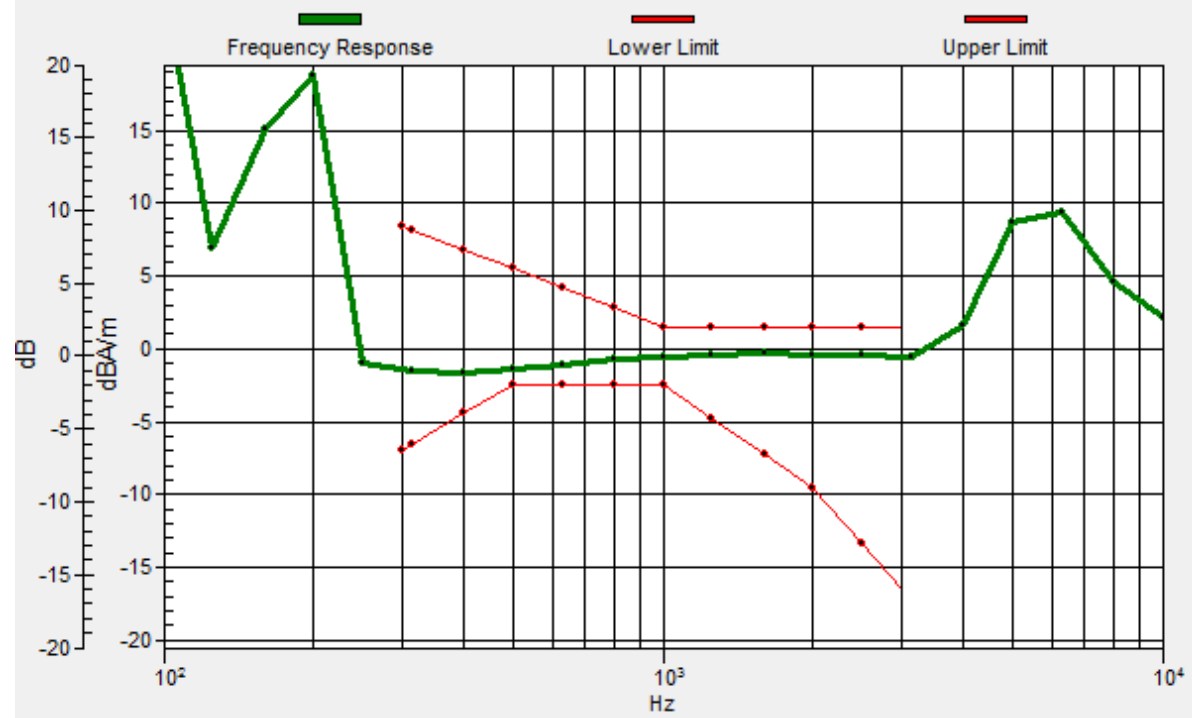
Location: -3, 2.3, 3.7 mm





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

Loc: -3.1, 2.1, 3.7 mm Diff: 1.06dB



**#06\_HAC\_T-Coil\_LTE Band 2\_20M\_QPSK\_1RB\_0offset\_EVS  
WB5.9Kbps\_Ch18900\_Transversal (Y)**

Communication System: LTE ; Frequency: 1880 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

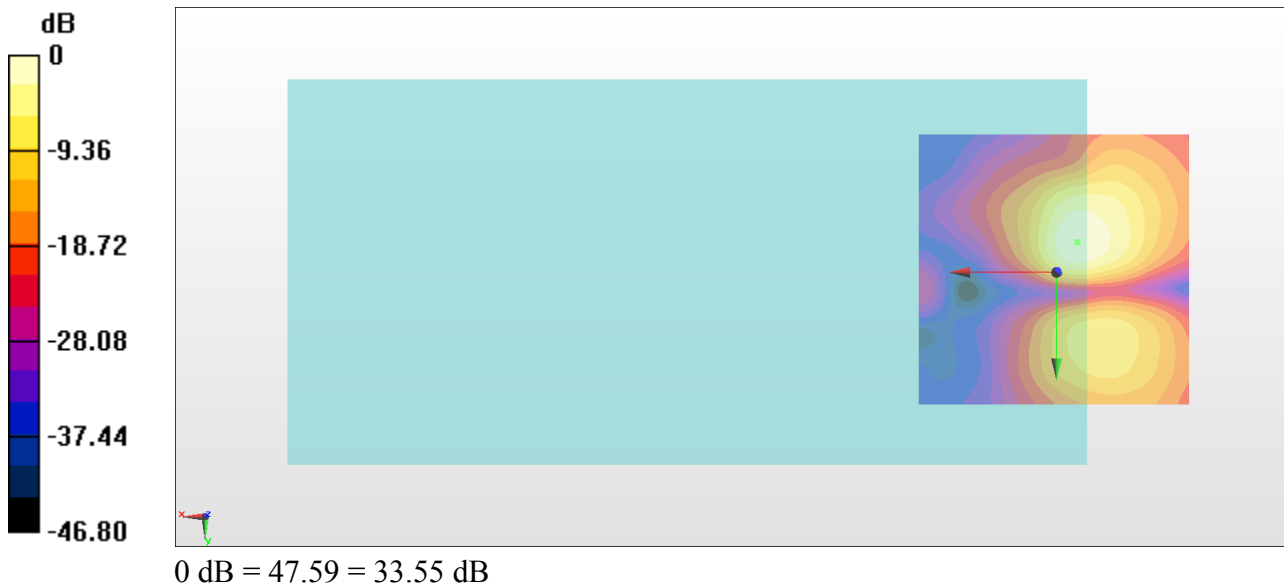
**General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 33.55 dB

ABM1 comp = -10.27 dBA/m

Location: -3.7, -5.4, 3.7 mm



**#07\_HAC\_T-Coil\_LTE Band 4\_20M\_QPSK\_1RB\_0offset\_EVS WB  
5.9Kbps\_Ch20175\_Axial (Z)**

Communication System: LTE ; Frequency: 1732.5 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

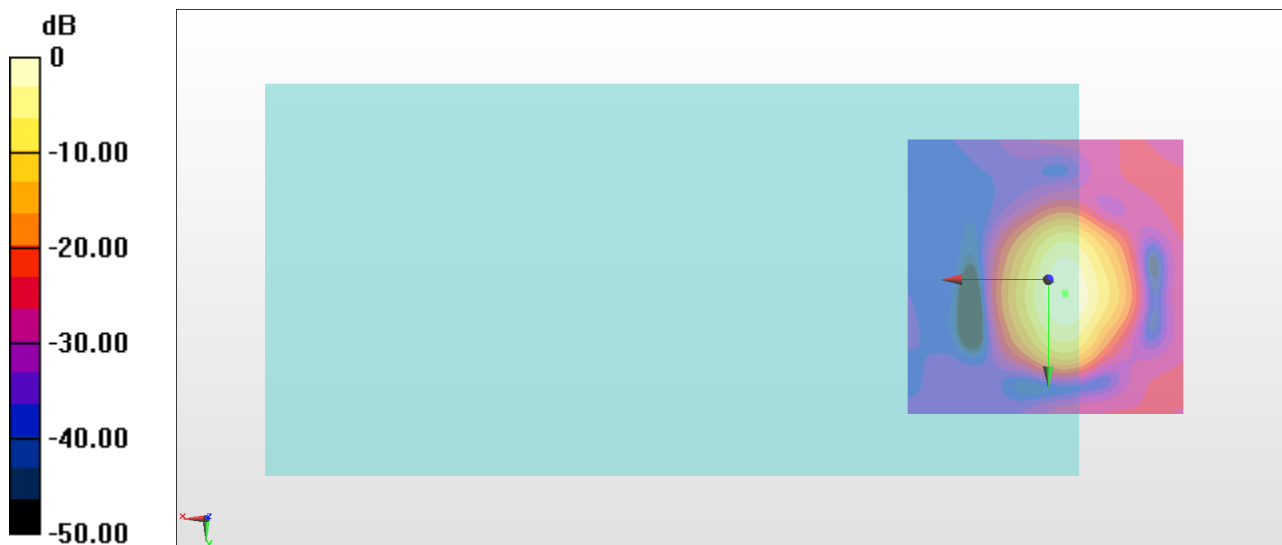
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 33.95 dB

ABM1 comp = -1.40 dBA/m

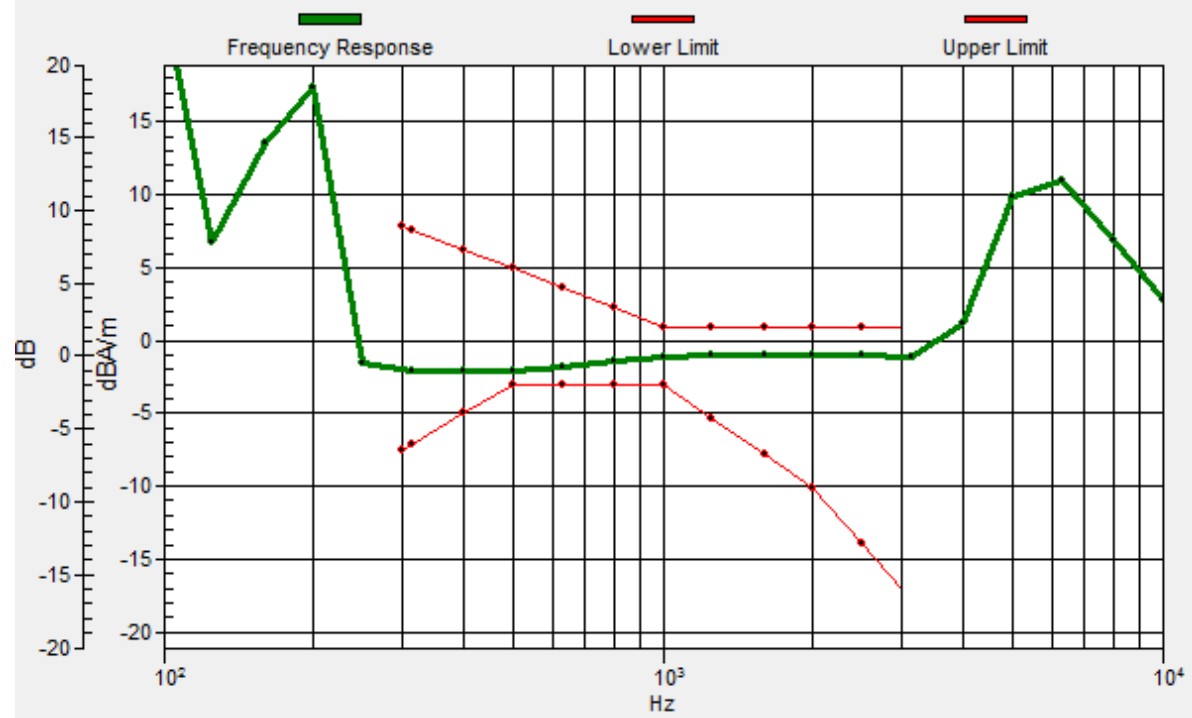
Location: -3, 2.3, 3.7 mm



0 dB = 49.81 = 33.95 dB

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

Loc: -3.1, 2.7, 3.7 mm Diff: 1.02dB



**#07\_HAC\_T-Coil\_LTE Band 4\_20M\_QPSK\_1RB\_0offset\_EVS WB  
5.9Kbps\_Ch20175\_Transversal (Y)**

Communication System: LTE ; Frequency: 1732.5 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

**General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 32.68 dB

ABM1 comp = -9.97 dBA/m

Location: -3, -4, 3.7 mm



**#08\_HAC\_T-Coil\_LTE Band 5\_10M\_QPSK\_1RB\_0offset\_EVS WB  
5.9Kbps\_Ch20525\_Axial (Z)**

Communication System: LTE ; Frequency: 836.5 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

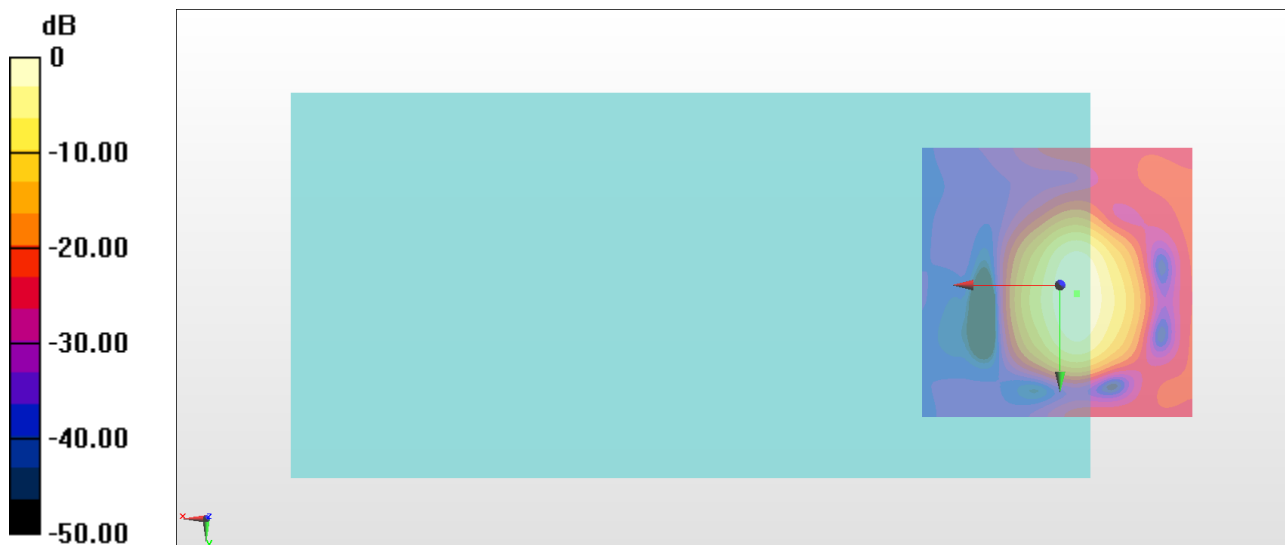
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 33.22 dB

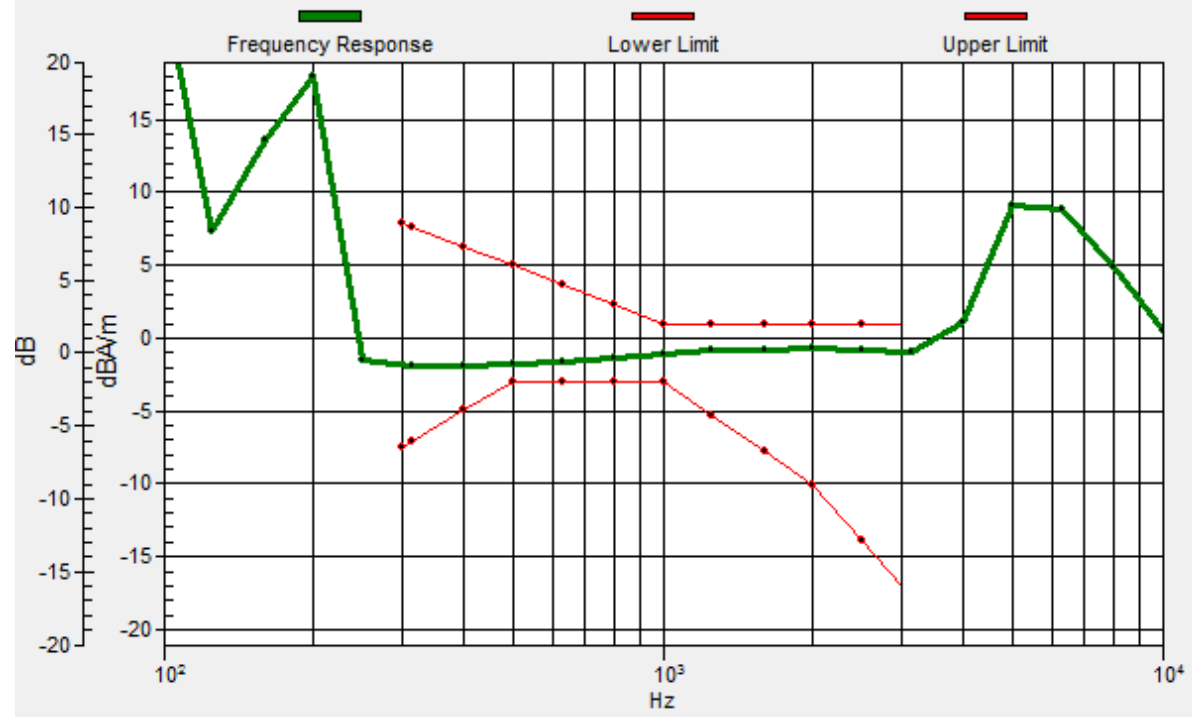
ABM1 comp = -1.60 dBA/m

Location: -3, 1.6, 3.7 mm



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

Loc: -3.1, 1.5, 3.7 mm Diff: 1.22dB



**#08\_HAC\_T-Coil\_LTE Band 5\_10M\_QPSK\_1RB\_0offset\_EVS WB  
5.9Kbps\_Ch20525\_Transversal (Y)**

Communication System: LTE ; Frequency: 836.5 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

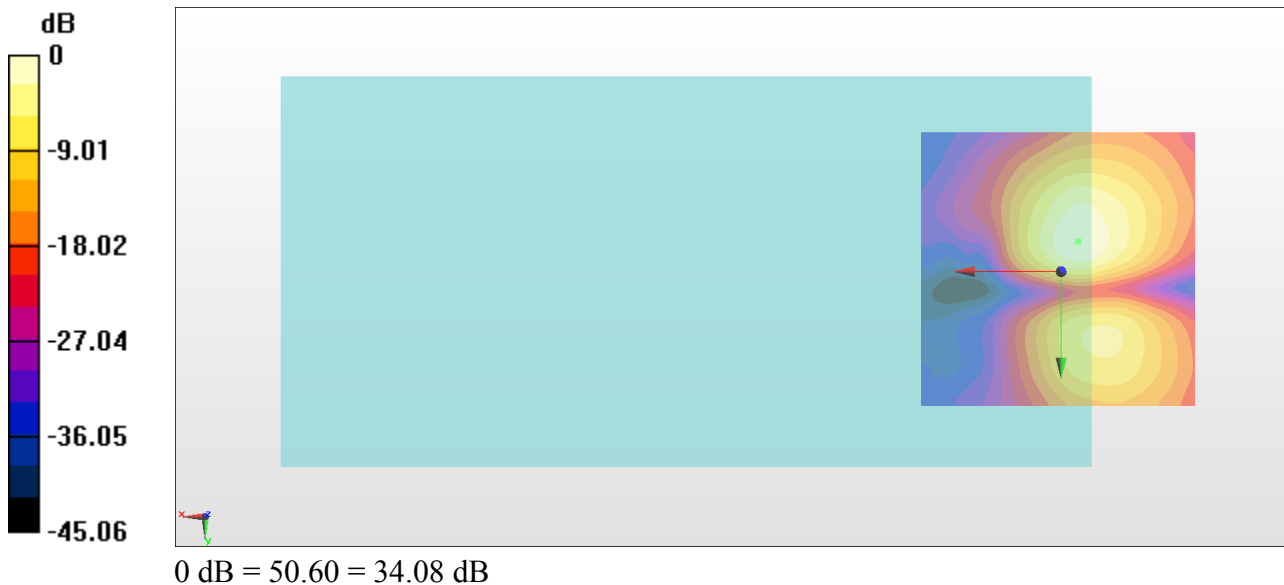
**General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 34.08 dB

ABM1 comp = -9.80 dBA/m

Location: -3, -5.4, 3.7 mm





**#09\_HAC\_T-Coil\_LTE Band 7\_20M\_QPSK\_1RB\_0offset\_EVS WB  
5.9Kbps\_Ch21100\_Axial (Z)**

Communication System: LTE ; Frequency: 2535 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

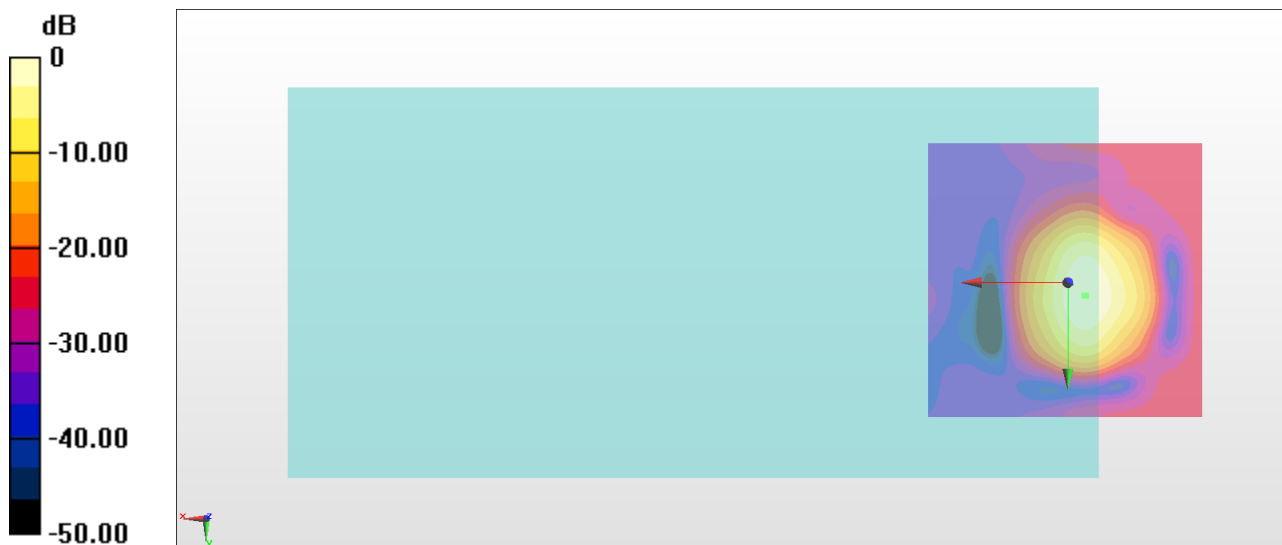
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 32.50 dB

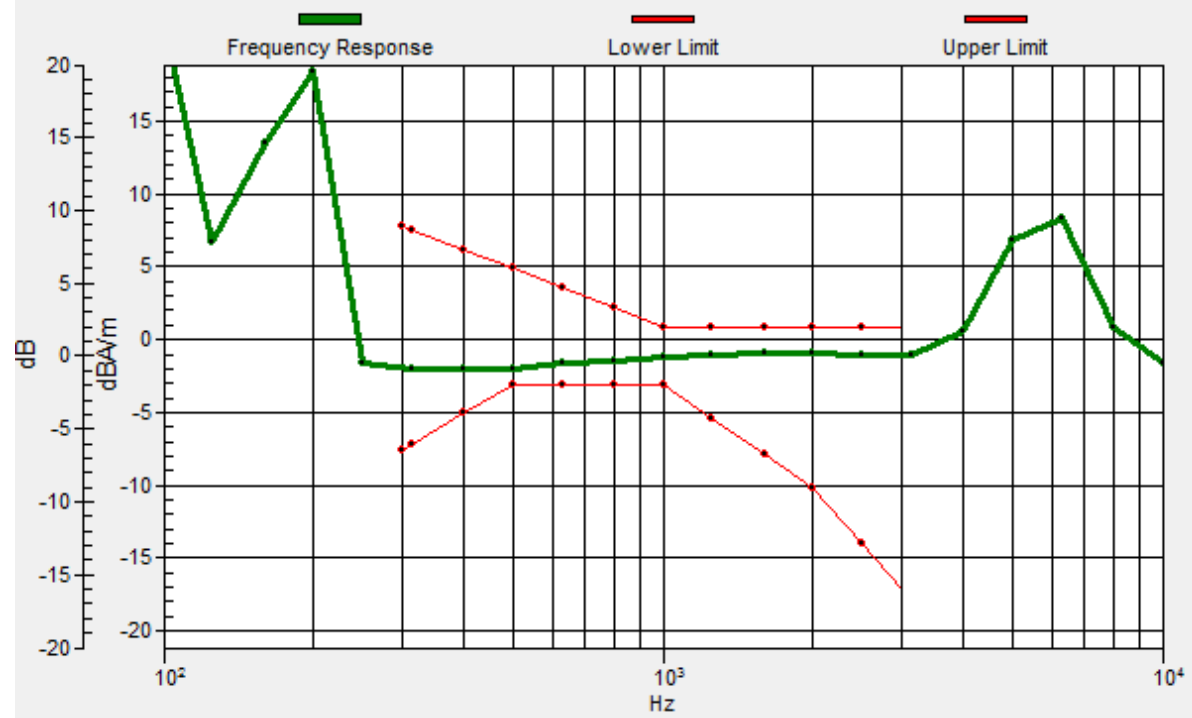
ABM1 comp = -1.46 dBA/m

Location: -3, 2.3, 3.7 mm



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

Loc: -3.2, 2.4, 3.7 mm Diff: 1.17dB



**#09\_HAC\_T-Coil\_LTE Band 7\_20M\_QPSK\_1RB\_0offset\_EVS WB  
5.9Kbps\_Ch21100\_Transversal (Y)**

Communication System: LTE ; Frequency: 2535 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

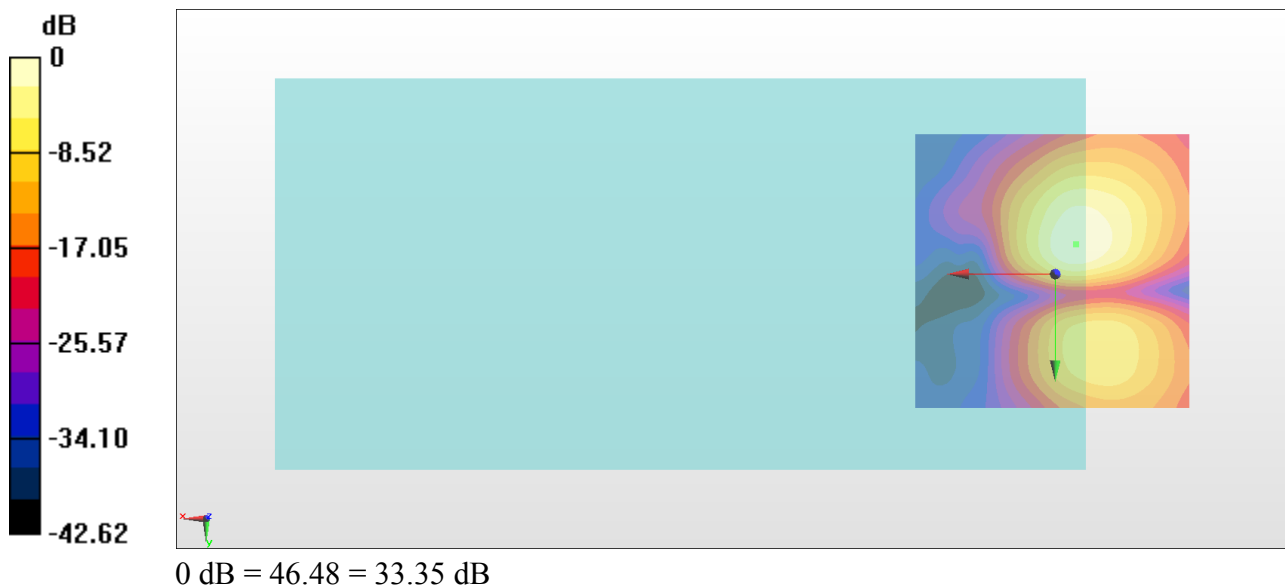
**General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 33.35 dB

ABM1 comp = -9.99 dBA/m

Location: -3.7, -5.4, 3.7 mm



**#10\_HAC\_T-Coil\_LTE Band 12\_10M\_QPSK\_1RB\_0offset\_EVS WB  
5.9Kbps\_Ch23095\_Axial (Z)**

Communication System: LTE ; Frequency: 707.5 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

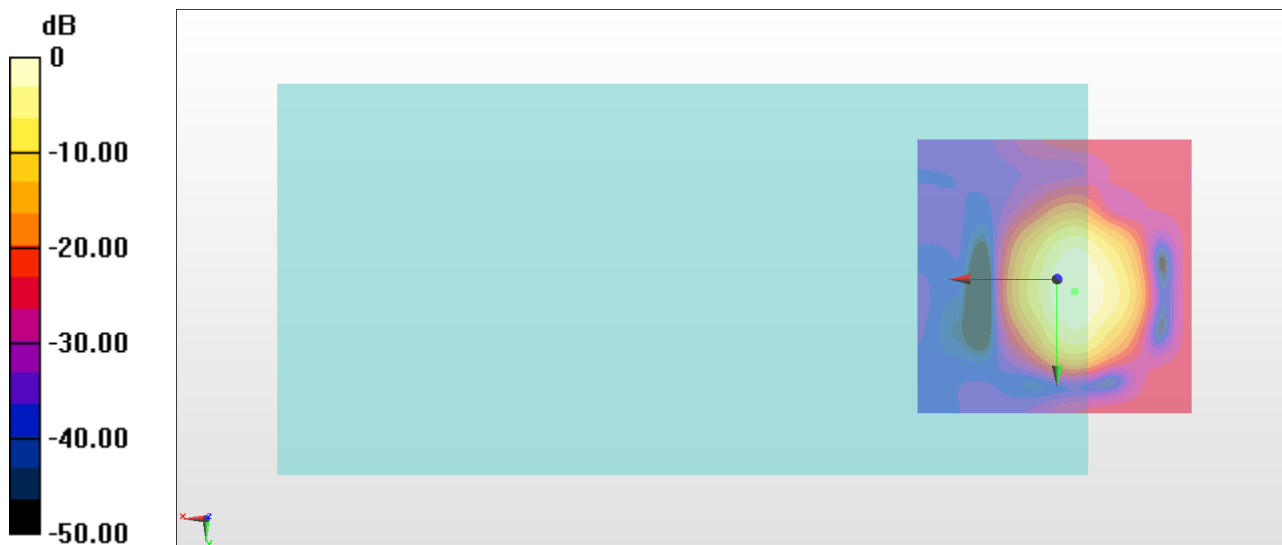
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 35.18 dB

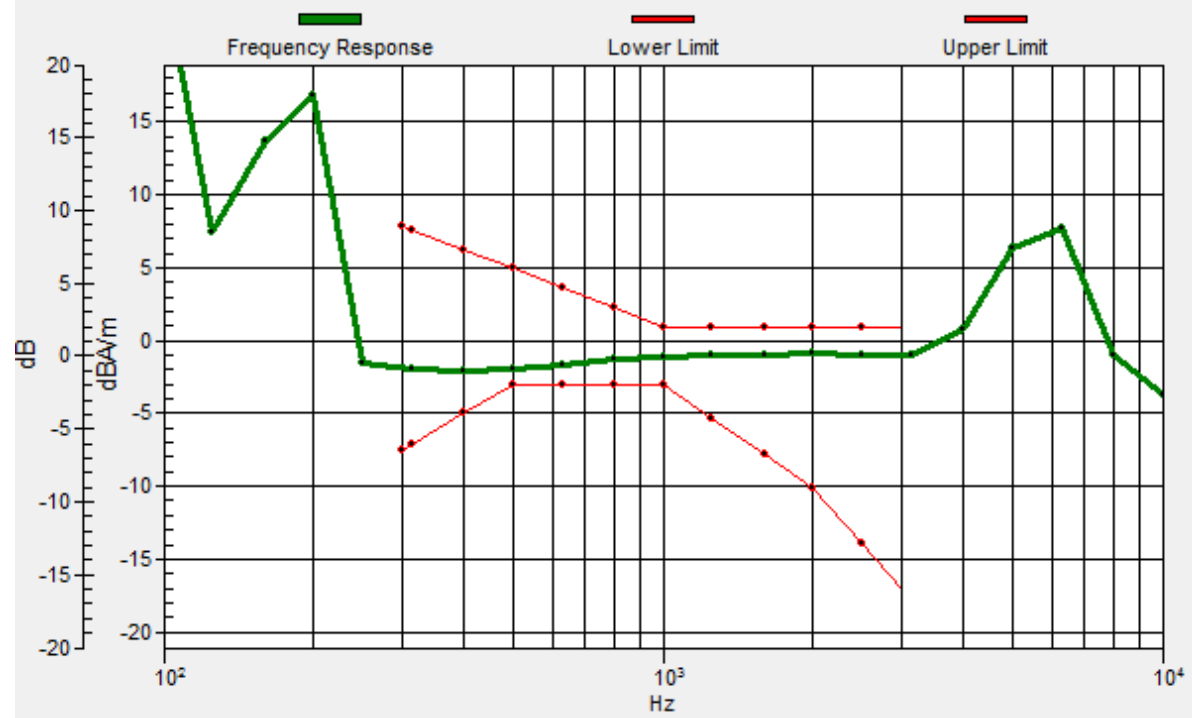
ABM1 comp = -1.29 dBA/m

Location: -3, 2.3, 3.7 mm



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

Loc: -3.3, 2.1, 3.7 mm Diff: 1.18dB



**#10\_HAC\_T-Coil\_LTE Band 12\_10M\_QPSK\_1RB\_0offset\_EVS WB  
5.9Kbps\_Ch23095\_Transversal (Y)**

Communication System: LTE ; Frequency: 707.5 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

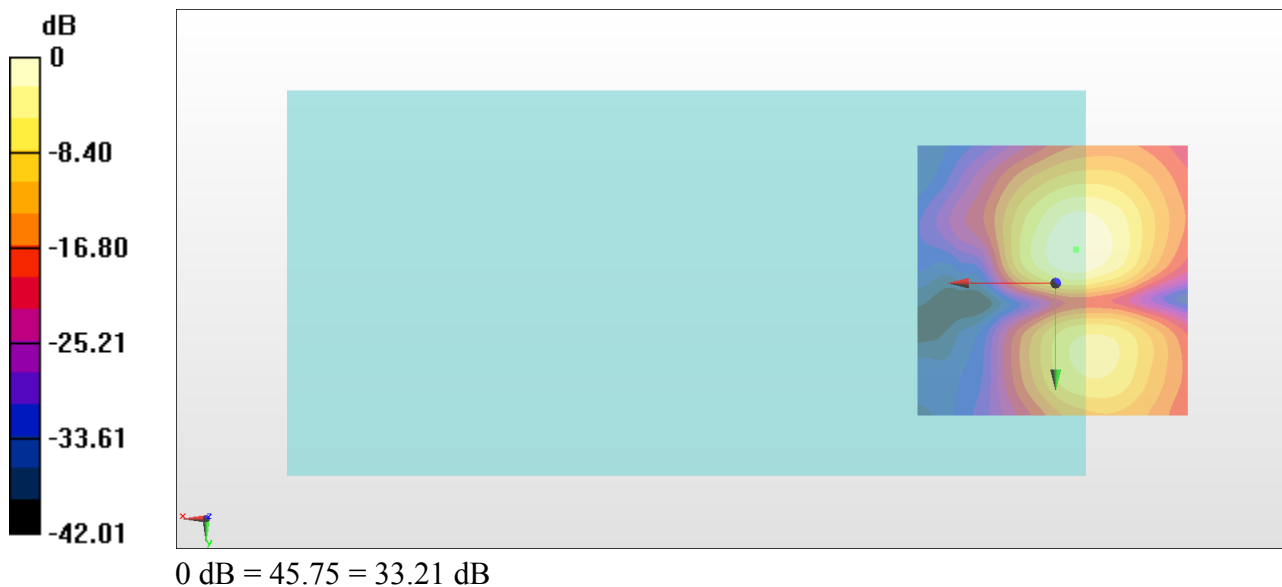
**General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 33.21 dB

ABM1 comp = -10.14 dBA/m

Location: -3.7, -6.1, 3.7 mm



## #11\_HAC\_T-Coil\_LTE Band 17\_10M\_QPSK\_1RB\_0offset\_EVS WB 5.9Kbps\_Ch23790\_Axial (Z)

Communication System: LTE ; Frequency: 710 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

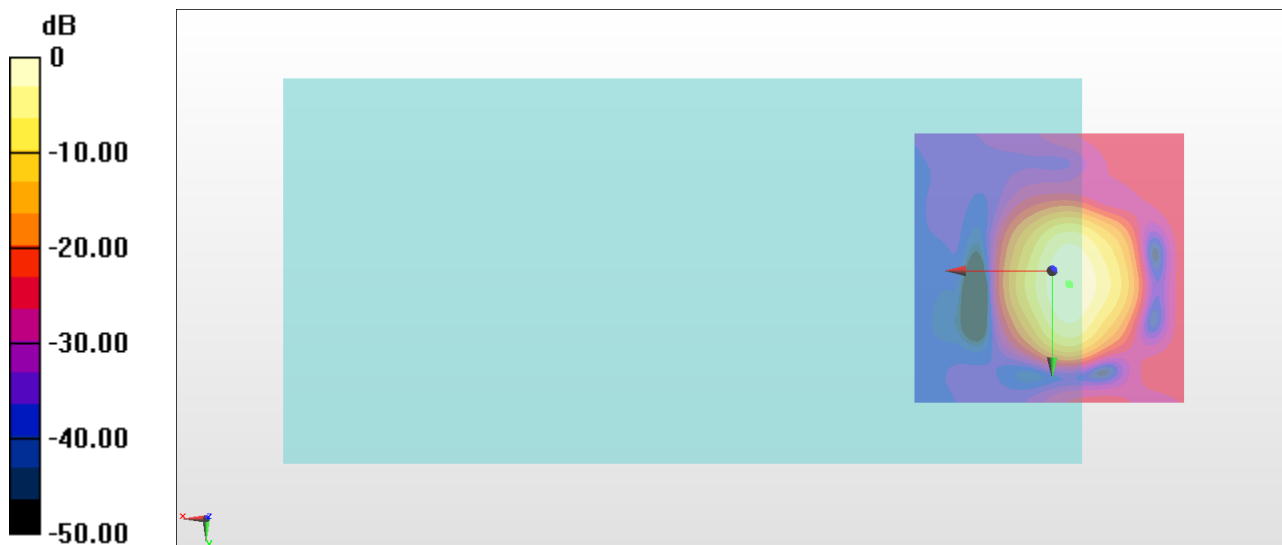
### General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 34.44 dB

ABM1 comp = -1.28 dBA/m

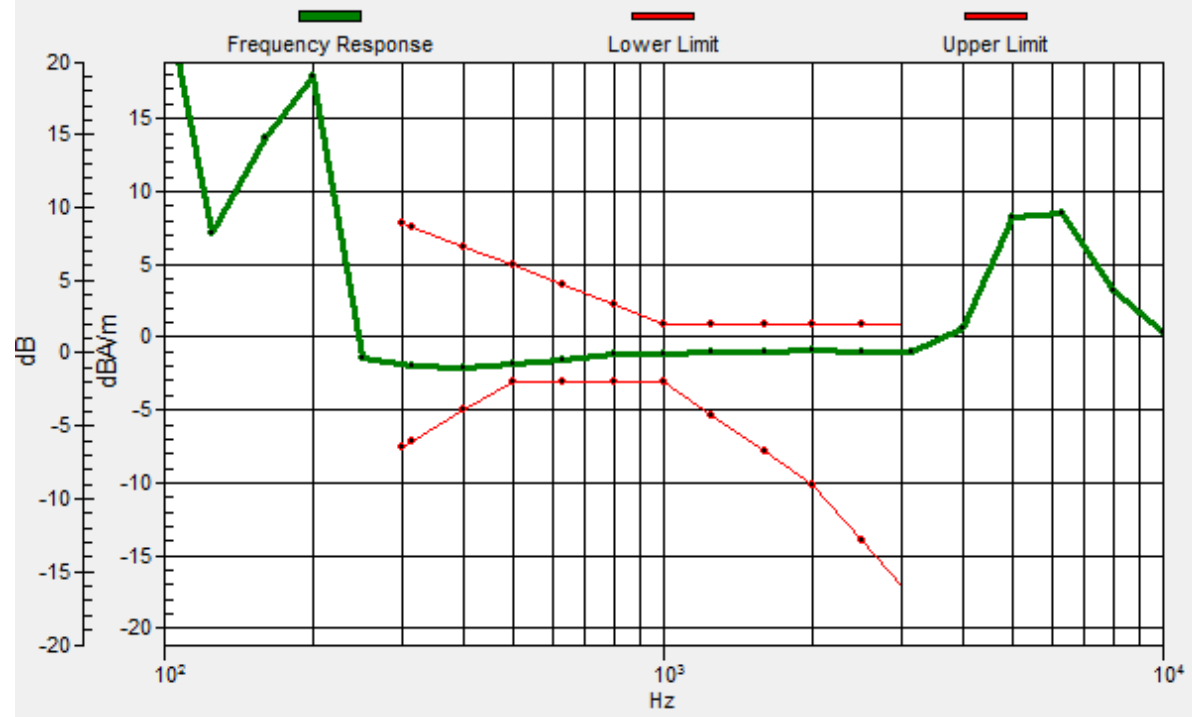
Location: -3, 2.3, 3.7 mm



0 dB = 52.72 = 34.44 dB

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

Loc: -3.2, 2.6, 3.7 mm Diff: 1.2dB





## #11\_HAC\_T-Coil\_LTE Band 17\_10M\_QPSK\_1RB\_0offset\_EVS WB 5.9Kbps\_Ch23790\_Transversal (Y)

Communication System: LTE ; Frequency: 710 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

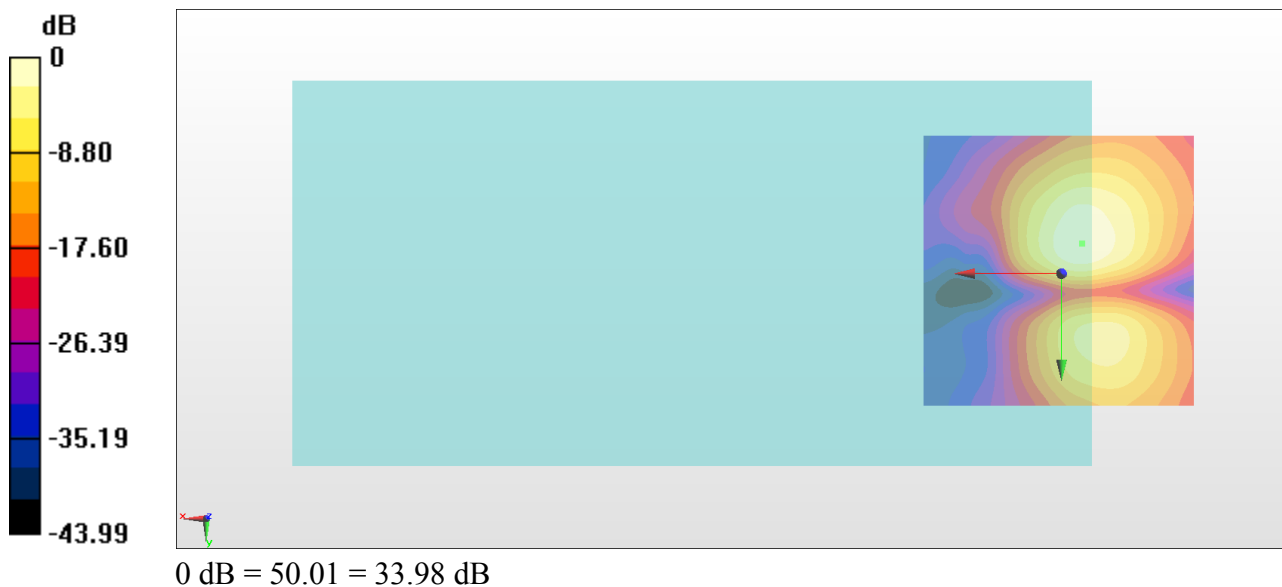
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 33.98 dB

ABM1 comp = -9.91 dBA/m

Location: -3.7, -5.4, 3.7 mm



**#12\_HAC\_T-Coil\_GSM850\_EDGE 2 Tx slots\_Ch189\_Axial (Z)**

Communication System: GSM850 ; Frequency: 836.4 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

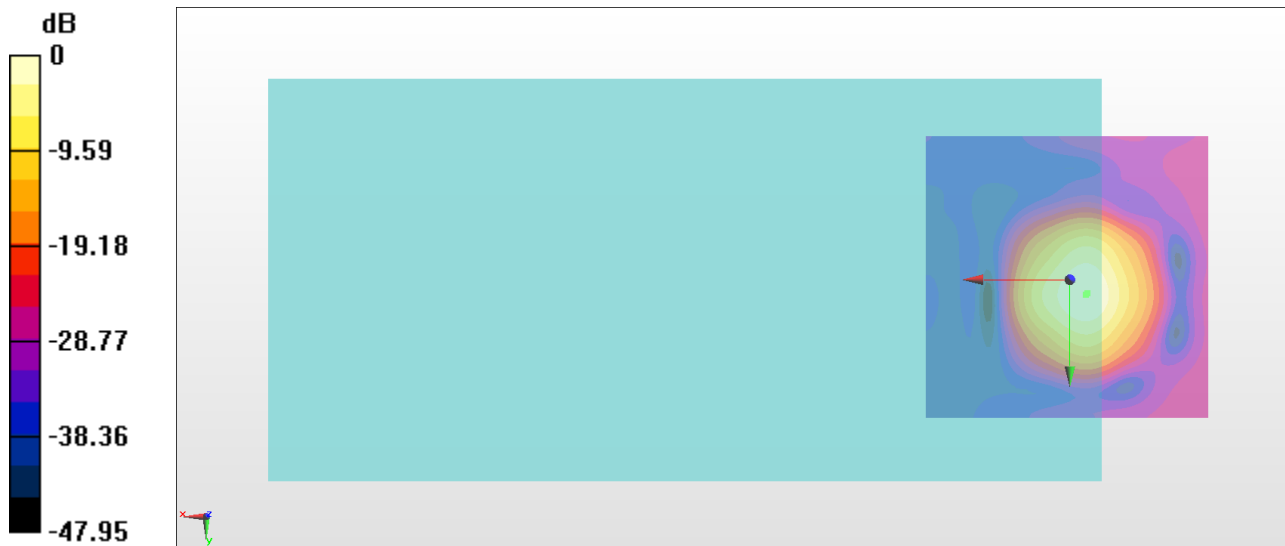
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 30.43 dB

ABM1 comp = 2.74 dBA/m

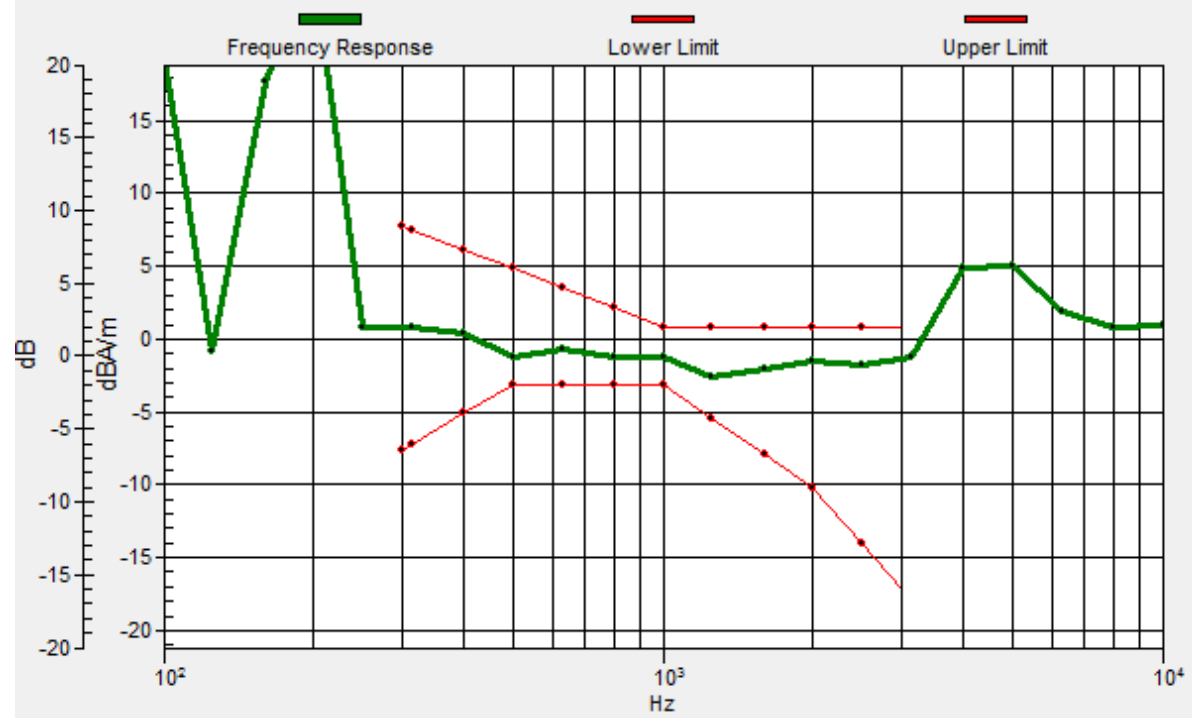
Location: -3, 2.3, 3.7 mm



0 dB = 33.24 = 30.43 dB

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

Loc: -2.7, 2.7, 3.7 mm Diff: 1.93dB



**#12\_HAC\_T-Coil\_GSM850\_EDGE 2 Tx slots\_Ch189\_Transversal (Y)**

Communication System: GSM850 ; Frequency: 836.4 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

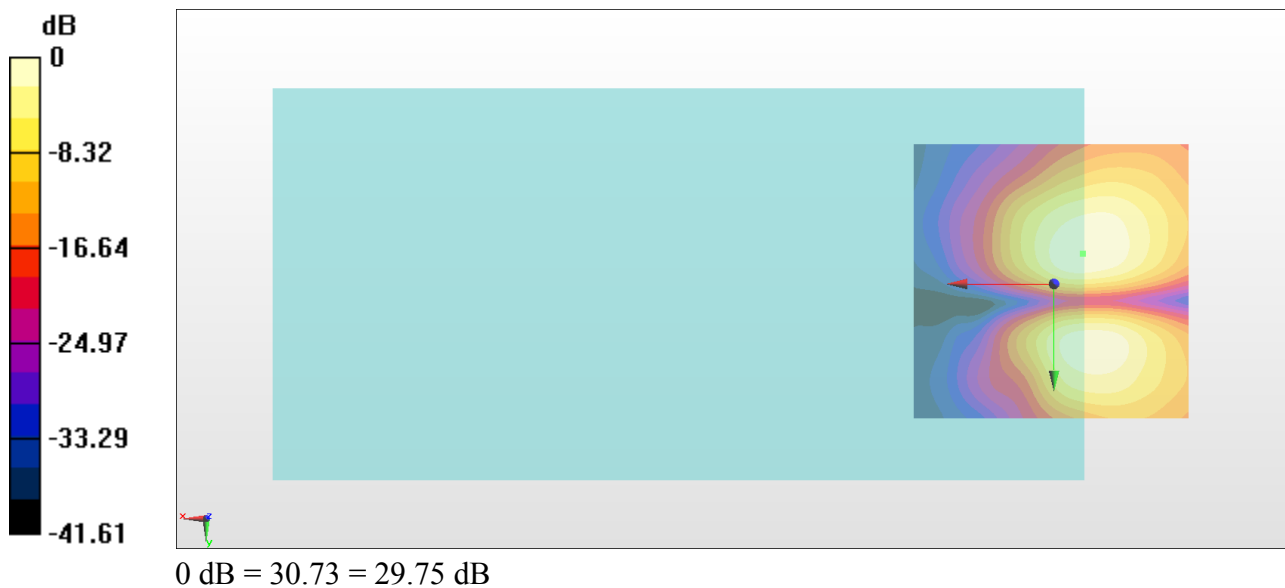
**General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 29.75 dB

ABM1 comp = -6.55 dBA/m

Location: -5.1, -5.4, 3.7 mm



**#13\_HAC\_T-Coil\_GSM1900\_EDGE 2 Tx slots\_Ch661\_Axial (Z)**

Communication System: PCS ; Frequency: 1880 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

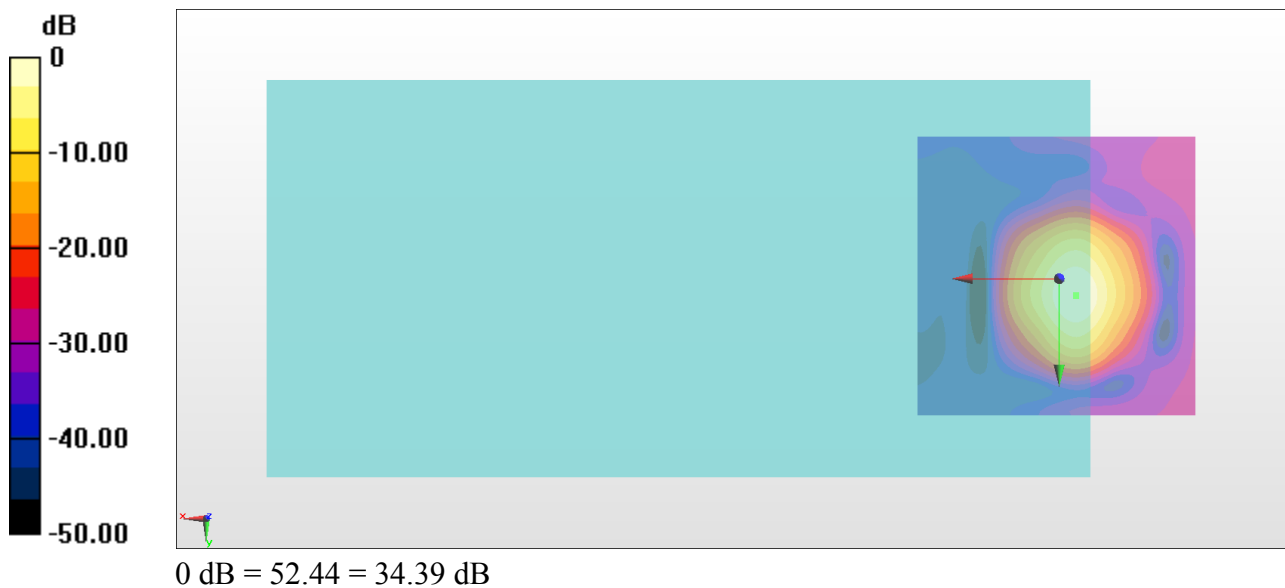
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 34.39 dB

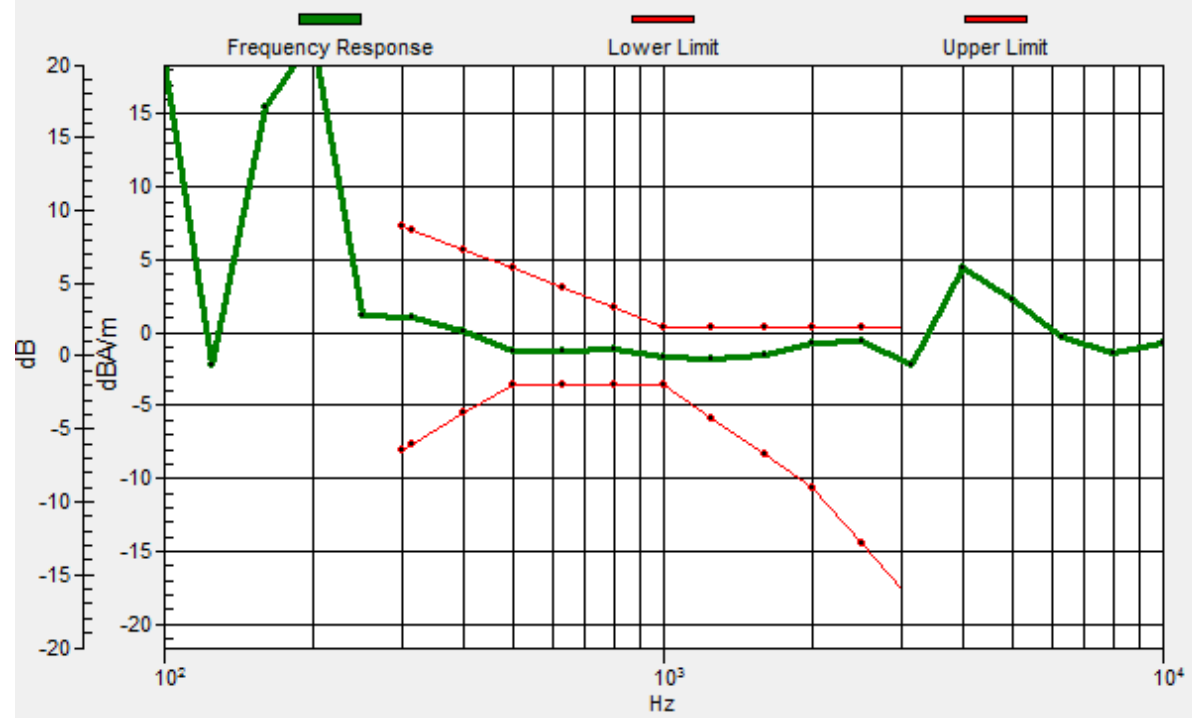
ABM1 comp = 2.33 dBA/m

Location: -3, 3, 3.7 mm



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

Loc: -2.9, 2.9, 3.7 mm Diff: 0.92dB



**#13\_HAC\_T-Coil\_GSM1900\_EDGE 2 Tx slots\_Ch661\_Transversal (Y)**

Communication System: PCS ; Frequency: 1880 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

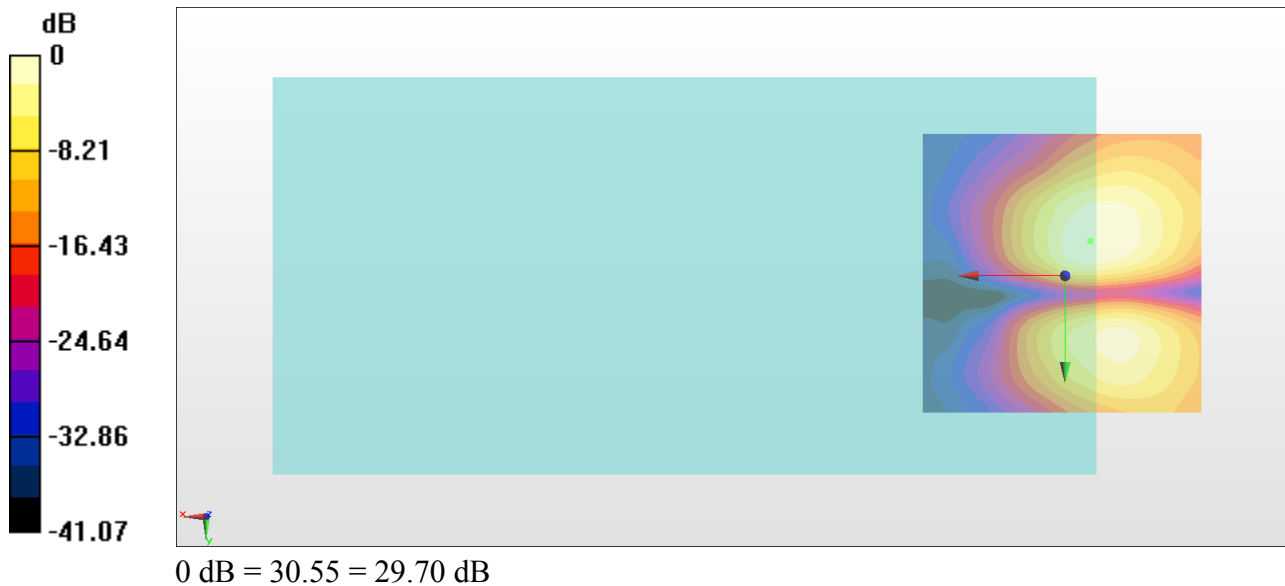
**General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 29.70 dB

ABM1 comp = -6.23 dBA/m

Location: -4.4, -6.1, 3.7 mm



**#14\_HAC\_T-Coil\_WCDMA II\_HSPA\_Ch9400\_Axial (Z)**

Communication System: WCDMA ; Frequency: 1880 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

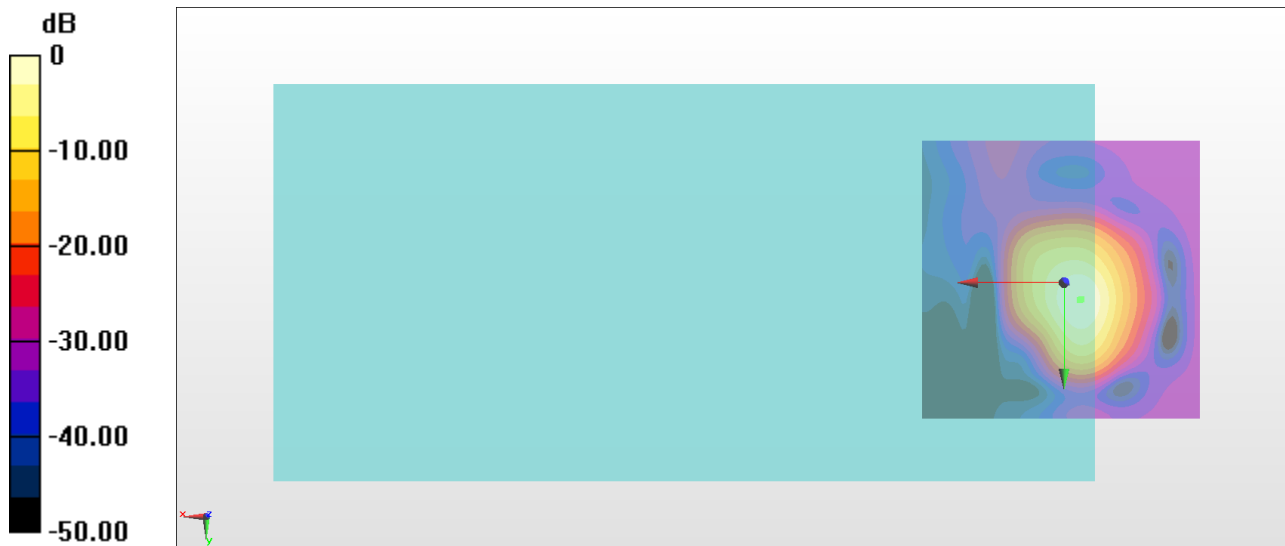
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 39.60 dB

ABM1 comp = 2.64 dBA/m

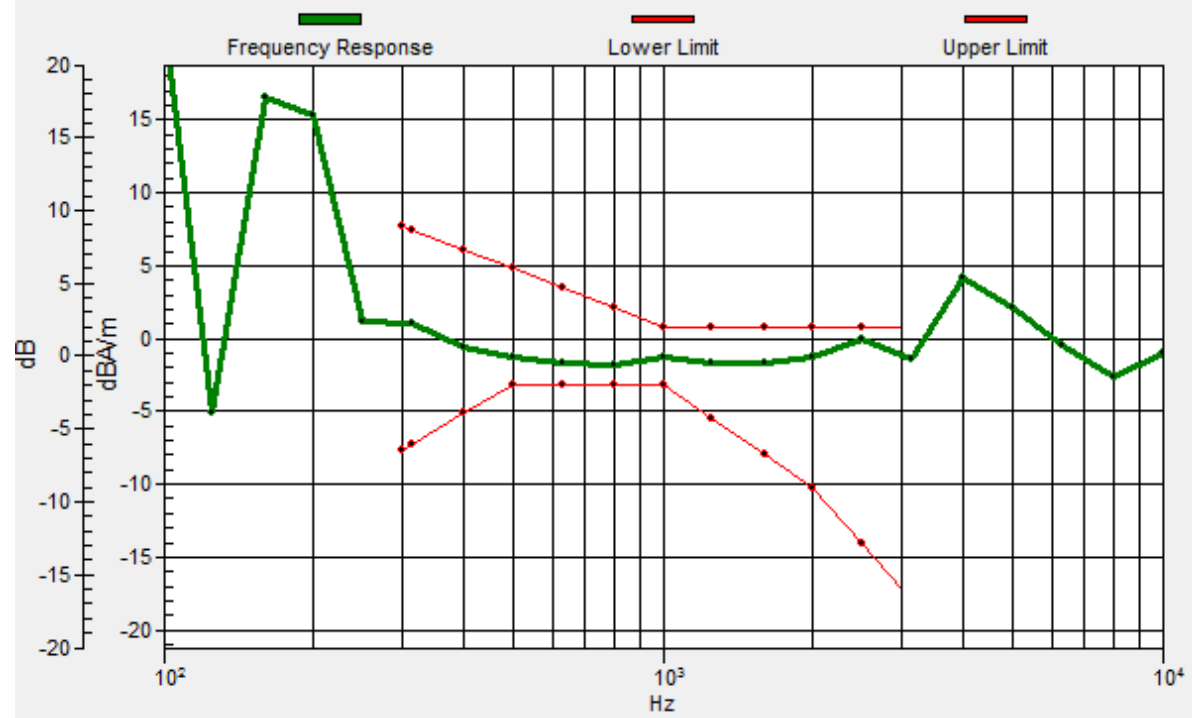
Location: -3, 3, 3.7 mm





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

Loc: -2.8, 3.1, 3.7 mm Diff: 0.9dB



**#14\_HAC\_T-Coil\_WCDMA II\_HSPA\_Ch9400\_Transversal (Y)**

Communication System: WCDMA ; Frequency: 1880 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

**General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 32.73 dB

ABM1 comp = -9.36 dBA/m

Location: -7.9, 12.1, 3.7 mm



**#15\_HAC\_T-Coil\_WCDMA IV\_HSPA\_Ch1413\_Axial (Z)**

Communication System: WCDMA ; Frequency: 1732.6 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

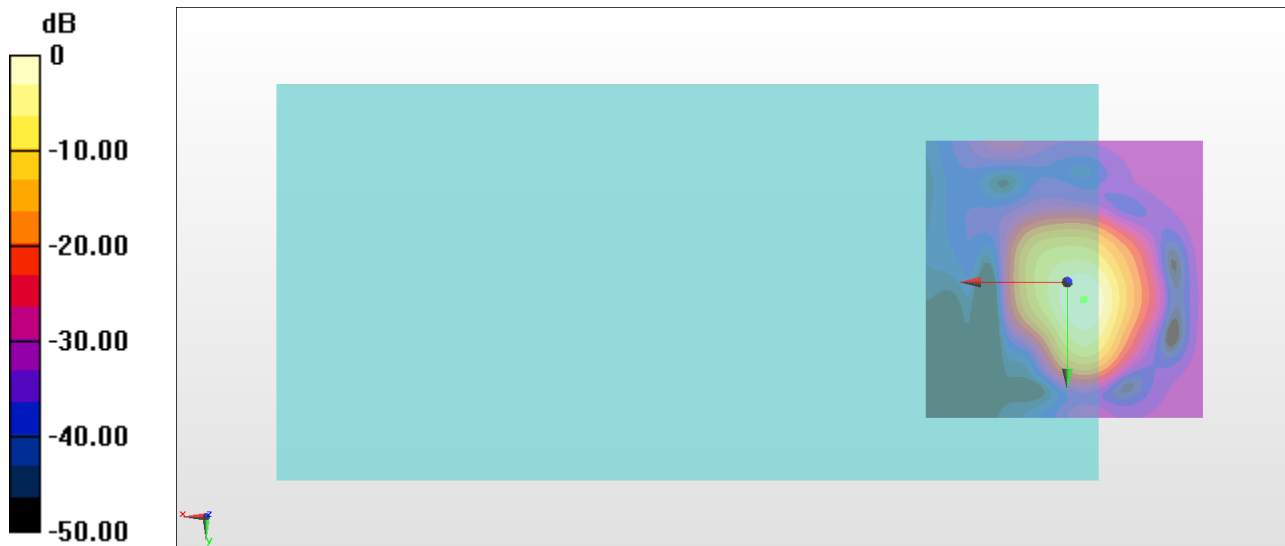
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 39.15 dB

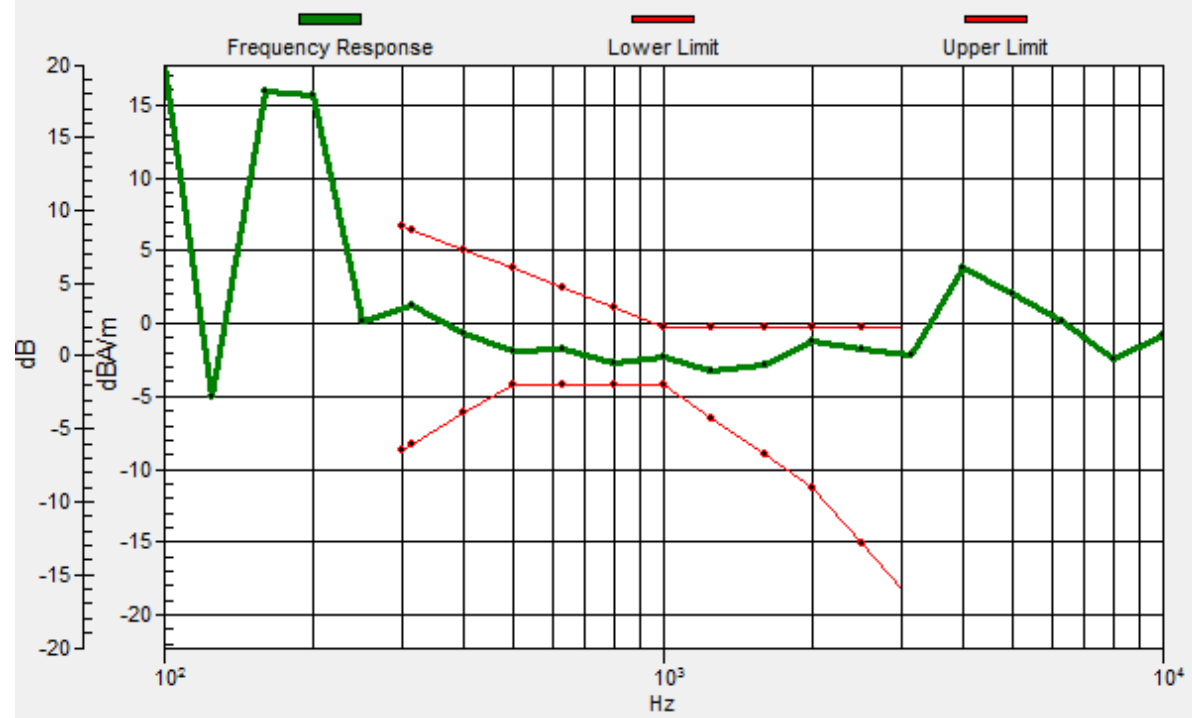
ABM1 comp = 2.23 dBA/m

Location: -3, 3, 3.7 mm



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

Loc: -2.8, 3.2, 3.7 mm Diff: 0.94dB



**#15\_HAC\_T-Coil\_WCDMA IV\_HSPA\_Ch1413\_Transversal (Y)**

Communication System: WCDMA ; Frequency: 1732.6 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

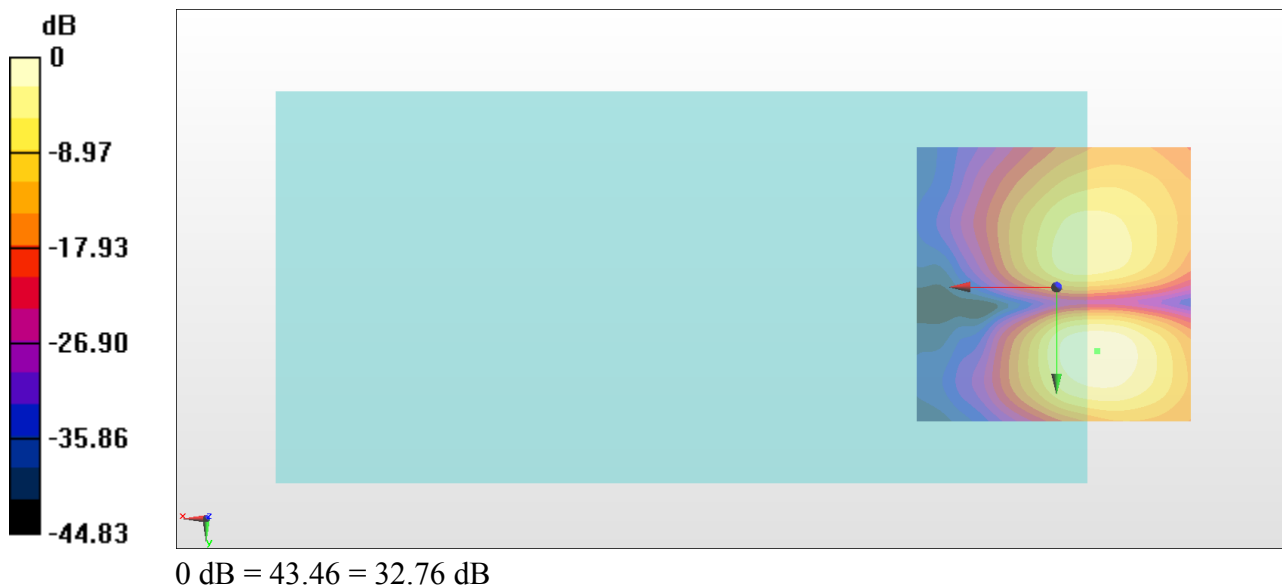
**General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 32.76 dB

ABM1 comp = -8.49 dBA/m

Location: -7.2, 11.4, 3.7 mm



**#16\_HAC\_T-Coil\_WCDMA V\_HSPA\_Ch4182\_Axial (Z)**

Communication System: WCDMA ; Frequency: 836.4 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

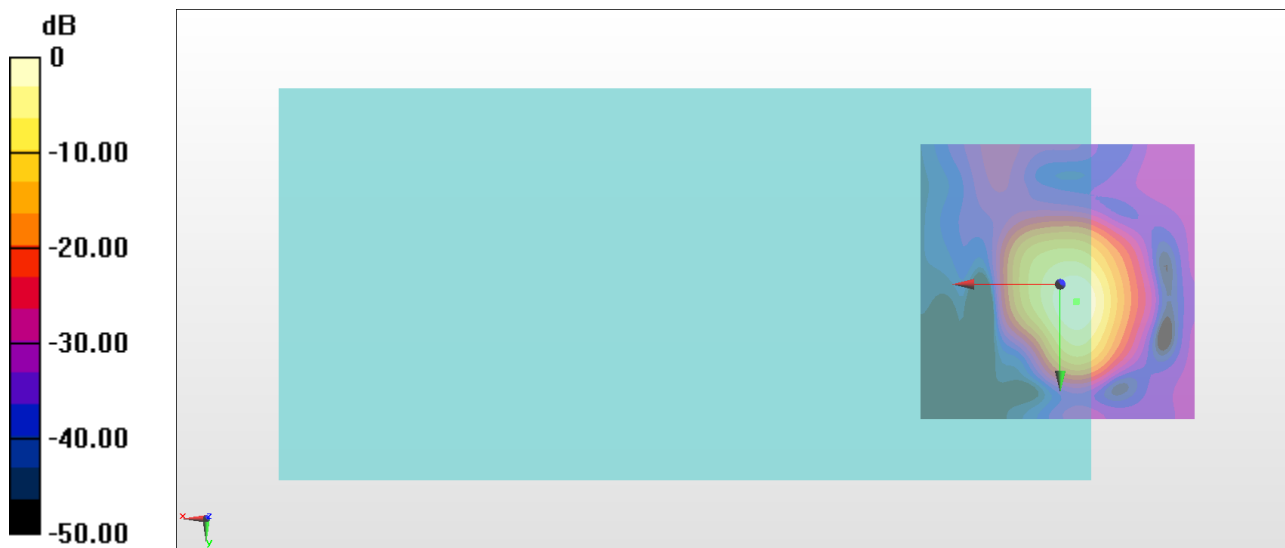
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 39.33 dB

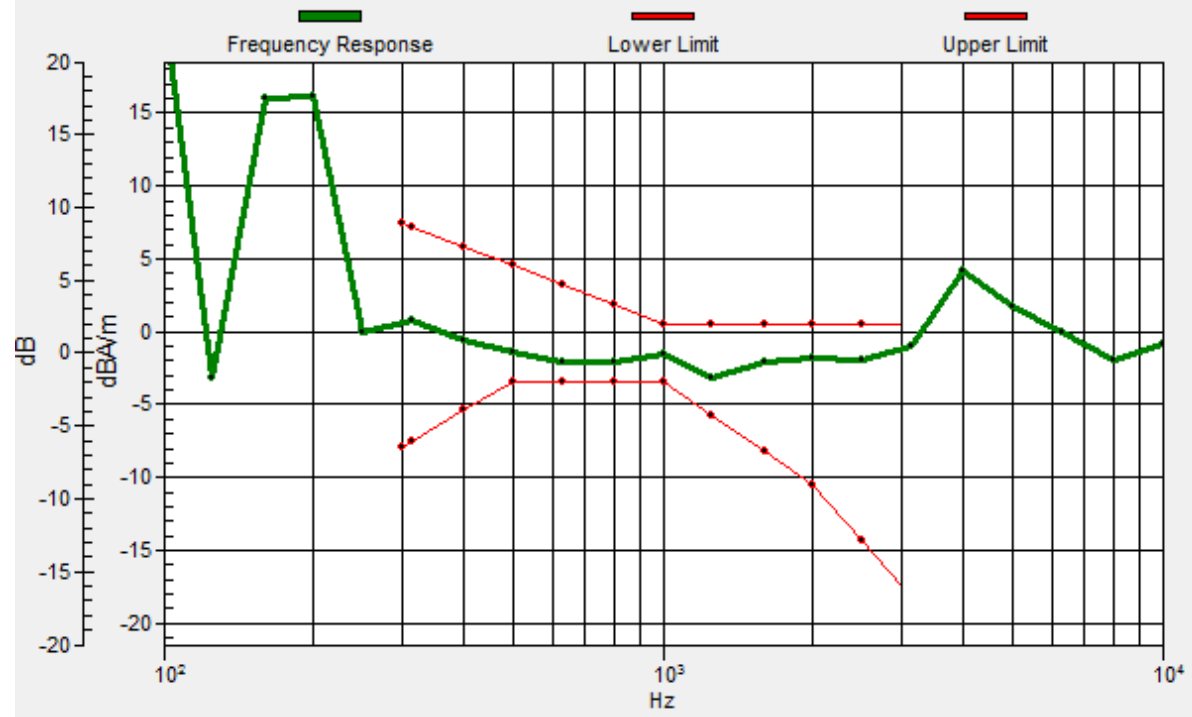
ABM1 comp = 2.46 dBA/m

Location: -3, 3, 3.7 mm



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

Loc: -2.8, 3.1, 3.7 mm Diff: 1.4dB



**#16\_HAC\_T-Coil\_WCDMA V\_HSPA\_Ch4182\_Transversal (Y)**

Communication System: WCDMA ; Frequency: 836.4 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

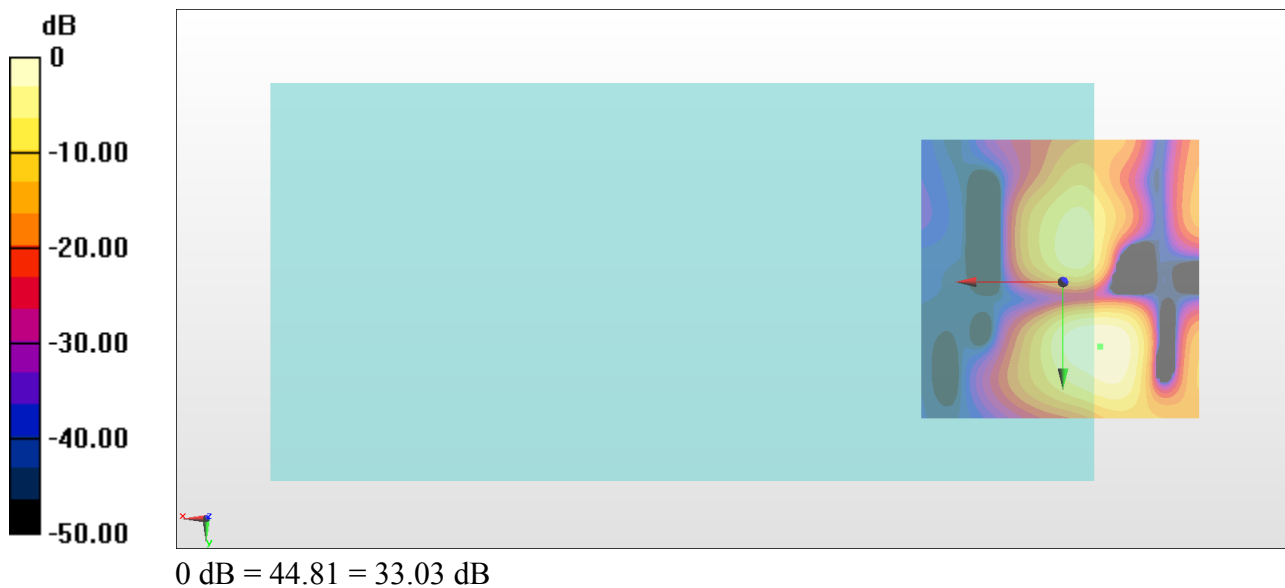
**General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 33.03 dB

ABM1 comp = -7.41 dBA/m

Location: -6.5, 11.4, 3.7 mm





**#17\_HAC\_T-Coil\_LTE Band 2\_20M\_QPSK\_1RB\_0offset\_Ch18900\_Axial (Z)**

Communication System: LTE ; Frequency: 1880 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

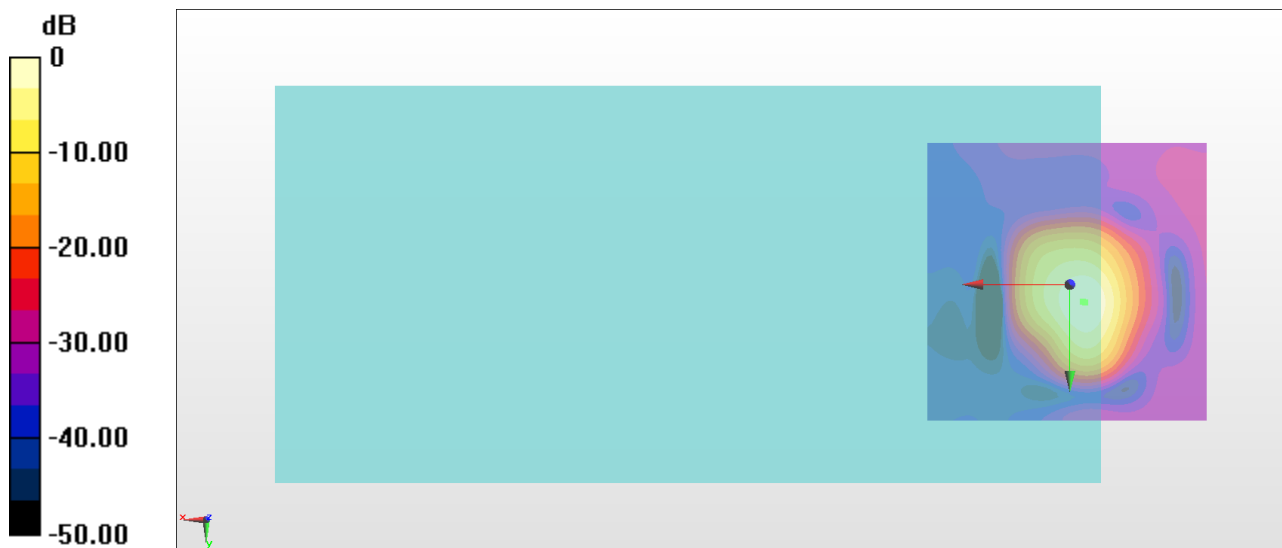
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 34.54 dB

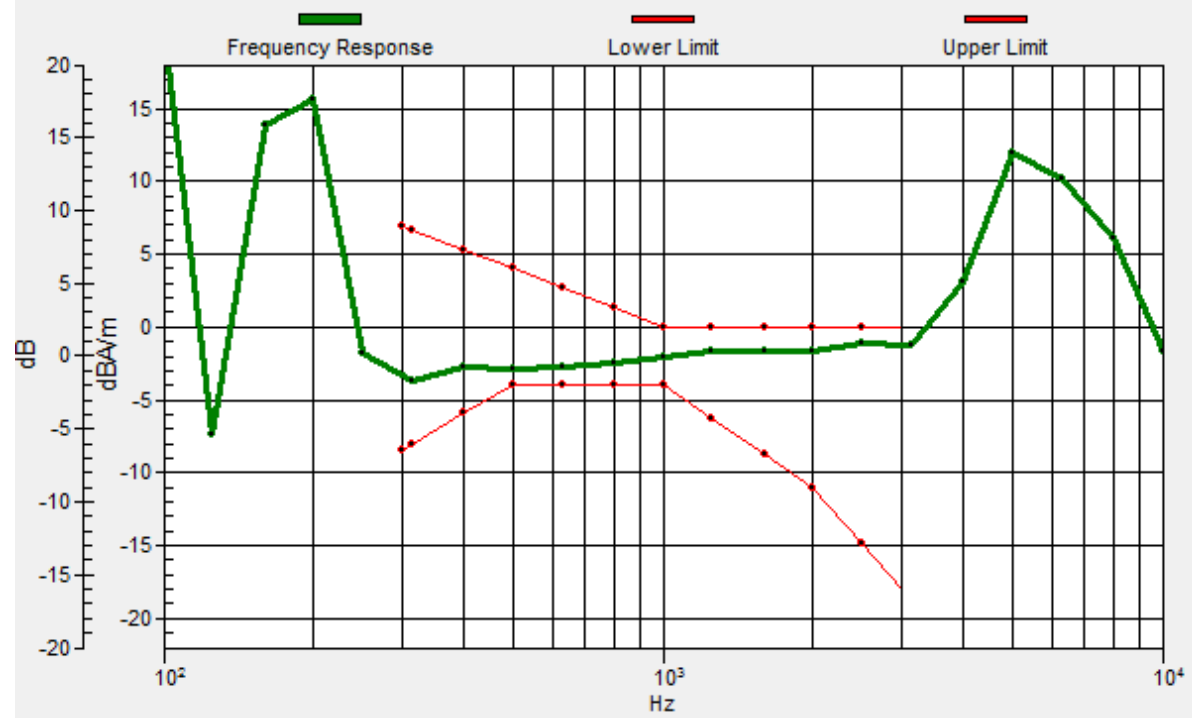
ABM1 comp = 0.25 dBA/m

Location: -2.3, 3, 3.7 mm



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

Loc: -2.7, 3.1, 3.7 mm Diff: 1.11dB



**#17\_HAC\_T-Coil\_LTE Band 2\_20M\_QPSK\_1RB\_0offset\_Ch18900\_Transversal (Y)**

Communication System: LTE ; Frequency: 1880 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

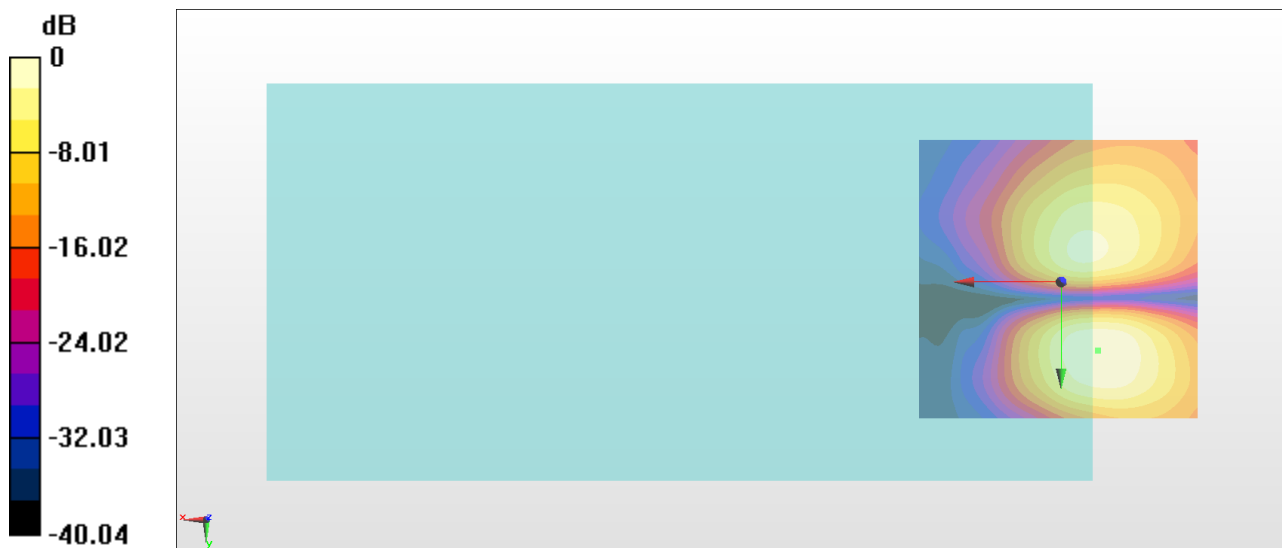
**General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 28.63 dB

ABM1 comp = -11.12 dBA/m

Location: -6.5, 12.1, 3.7 mm



0 dB = 27.01 = 28.63 dB

**#18\_HAC\_T-Coil\_WLAN2.4GHz\_802.11b 1Mbps\_Ch6\_Axial (Z)**

Communication System: 802.11b ; Frequency: 2437 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

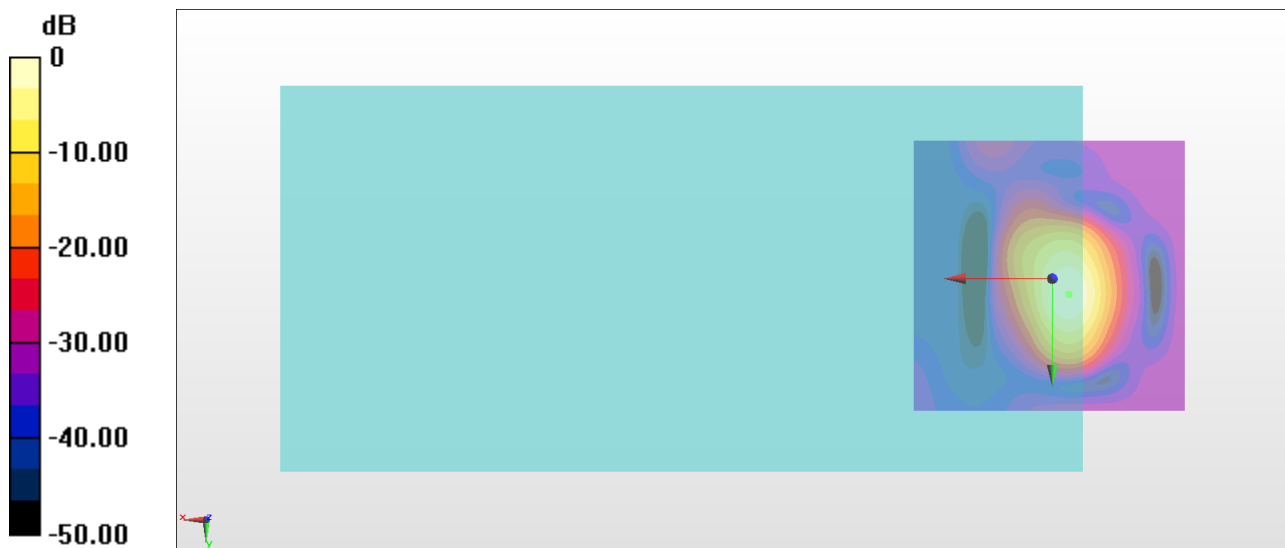
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 32.68 dB

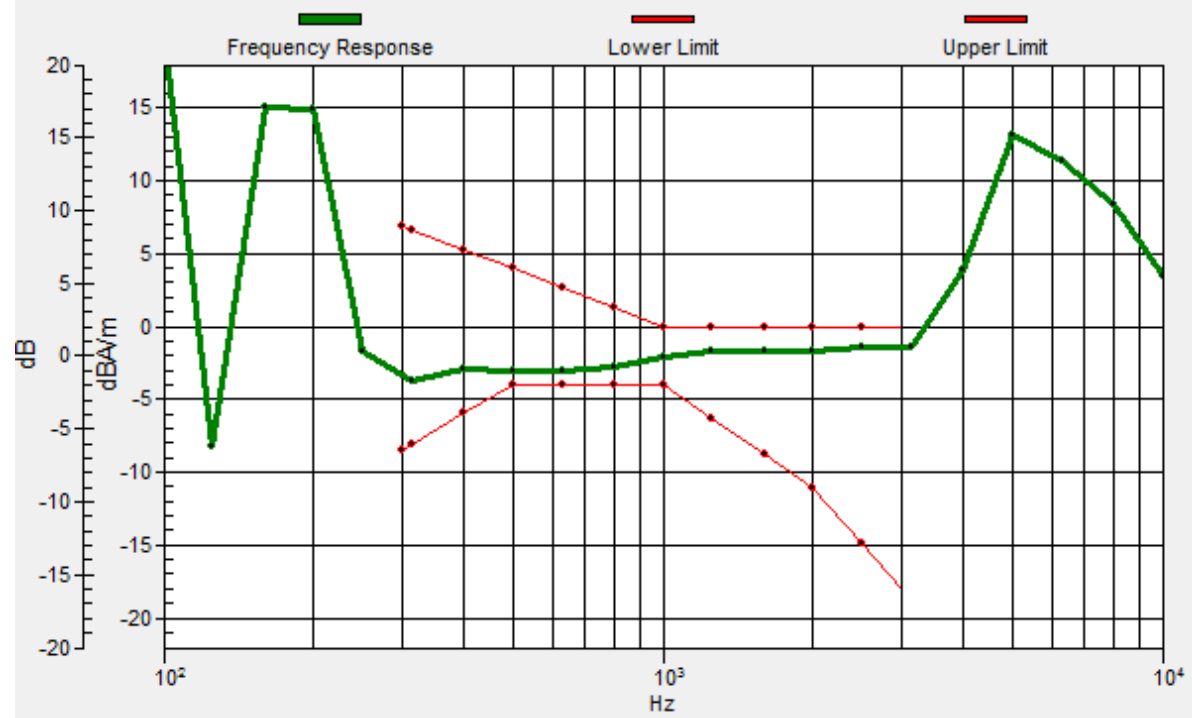
ABM1 comp = -0.36 dBA/m

Location: -3, 3, 3.7 mm



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

Loc: -2.9, 2.9, 3.7 mm Diff: 0.94dB



**#18\_HAC\_T-Coil\_WLAN2.4GHz\_802.11b 1Mbps\_Ch6\_Transversal (Y)**

Communication System: 802.11b ; Frequency: 2437 MHz

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 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

**T-Coil scan (scan for ANSI C63.19-2007 & 2011 compliance)/General Scans/y (transversal)**

**4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000mm

ABM1/ABM2 = 23.49 dB

ABM1 comp = -14.30 dBA/m

Location: -9.3, 10.7, 3.7 mm

