

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

Communication System: WCDMA; 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 : 23.4 °C

**DASY5 Configuration**

- Probe: AM1DV3 - 3130; ; Calibrated: 2015/11/10
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2015/11/23
- 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)

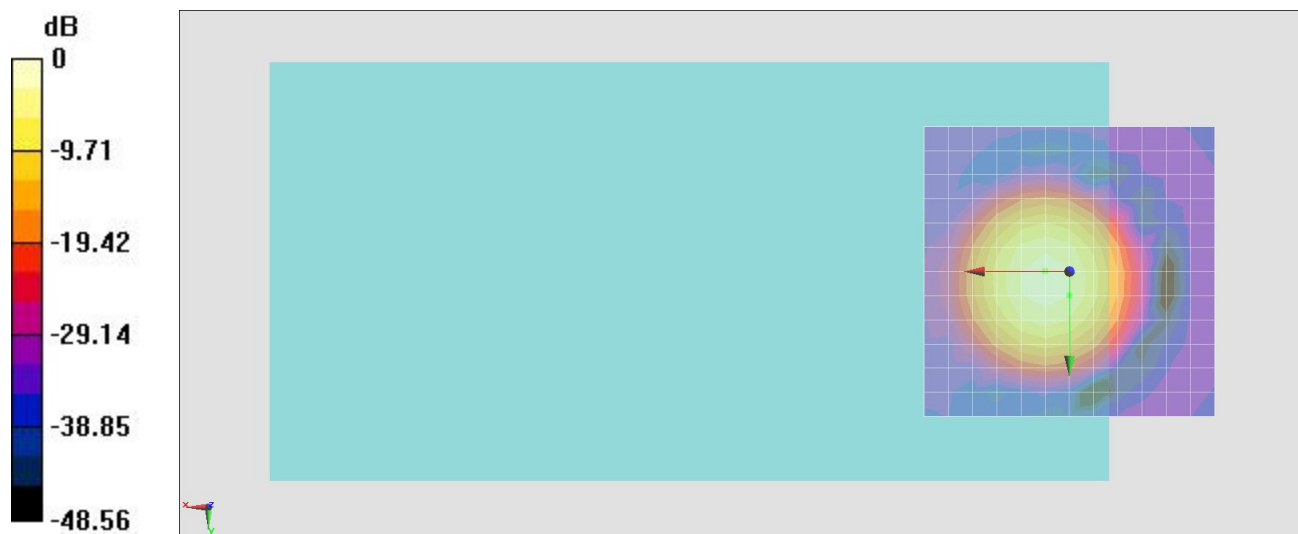
**General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 39.29 dB

ABM1 comp = -3.32 dBA/m

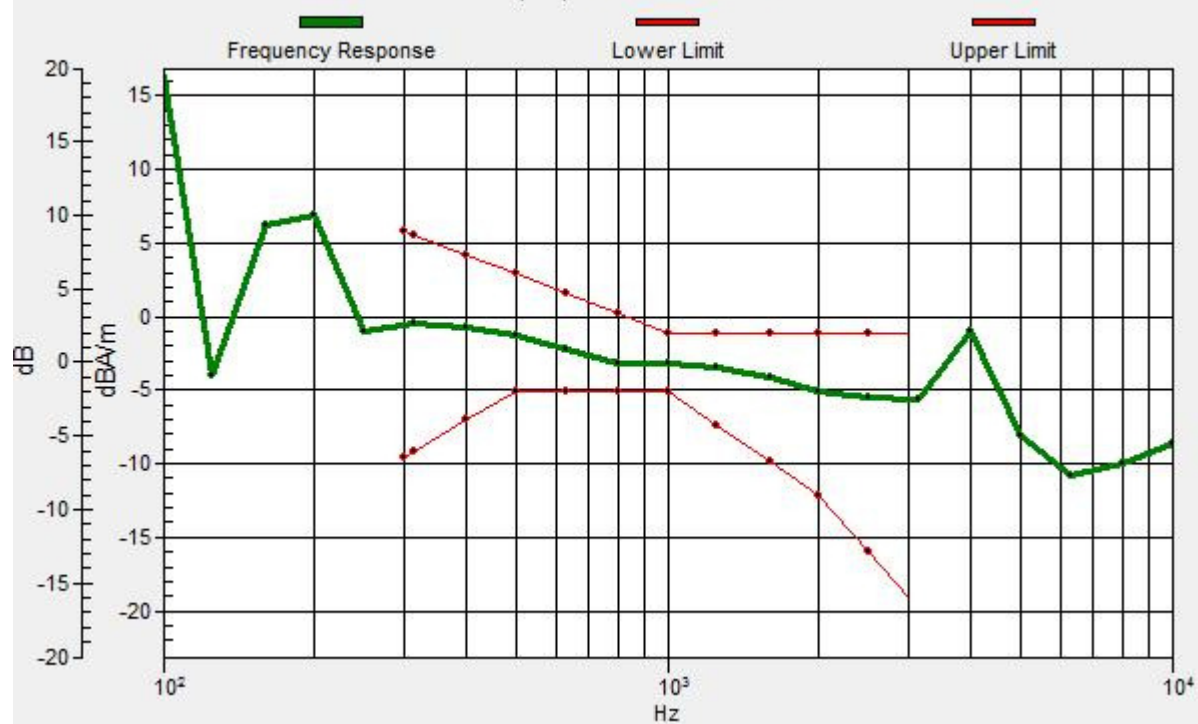
Location: 0, 4.2, 3.7 mm



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

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

Loc: 0, 4.2, 3.7 mm Diff: 1.97dB



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

Communication System: WCDMA; 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 : 23.4 °C

**DASY5 Configuration**

- Probe: AM1DV3 - 3130; ; Calibrated: 2015/11/10
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2015/11/23
- 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)

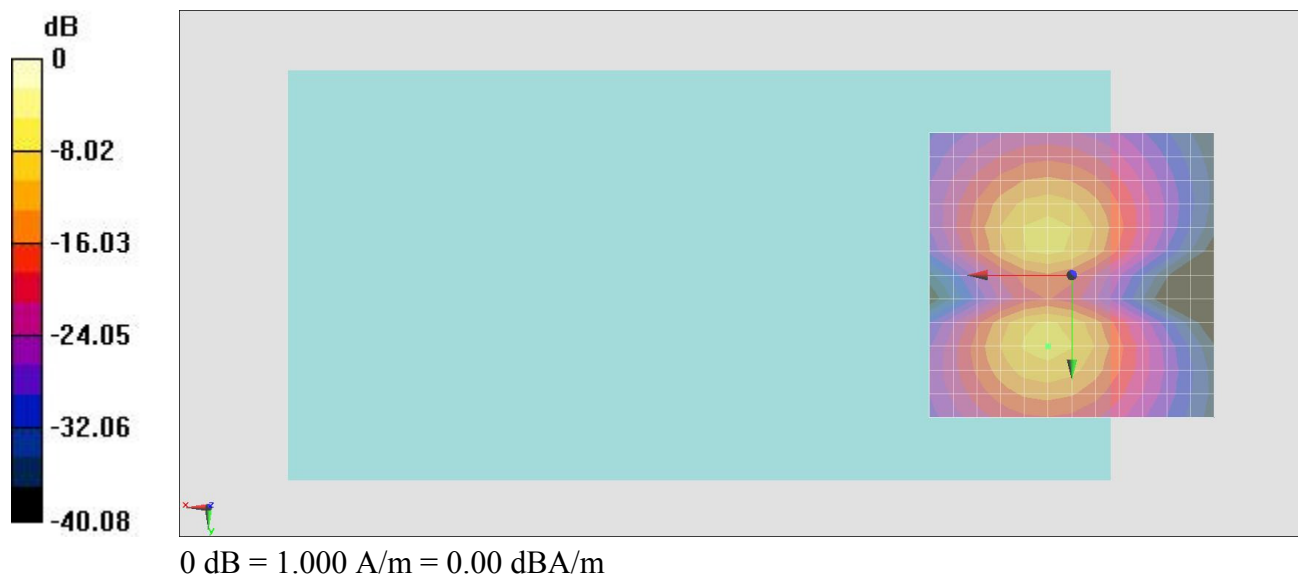
**General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement**

grid: dx=10mm, dy=10mm

ABM1/ABM2 = 36.14 dB

ABM1 comp = -9.33 dBA/m

Location: 4.2, 12.5, 3.7 mm



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

Communication System: WCDMA; 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 : 23.4 °C

**DASY5 Configuration**

- Probe: AM1DV3 - 3130; ; Calibrated: 2015/11/10
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2015/11/23
- 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)

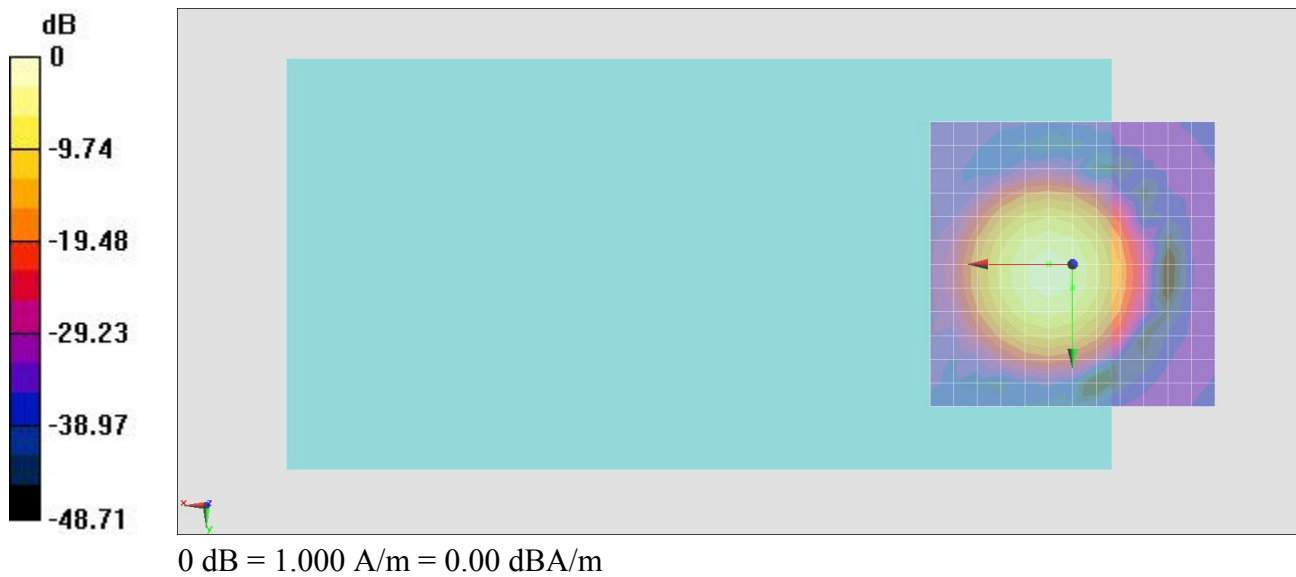
**General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 40.63 dB

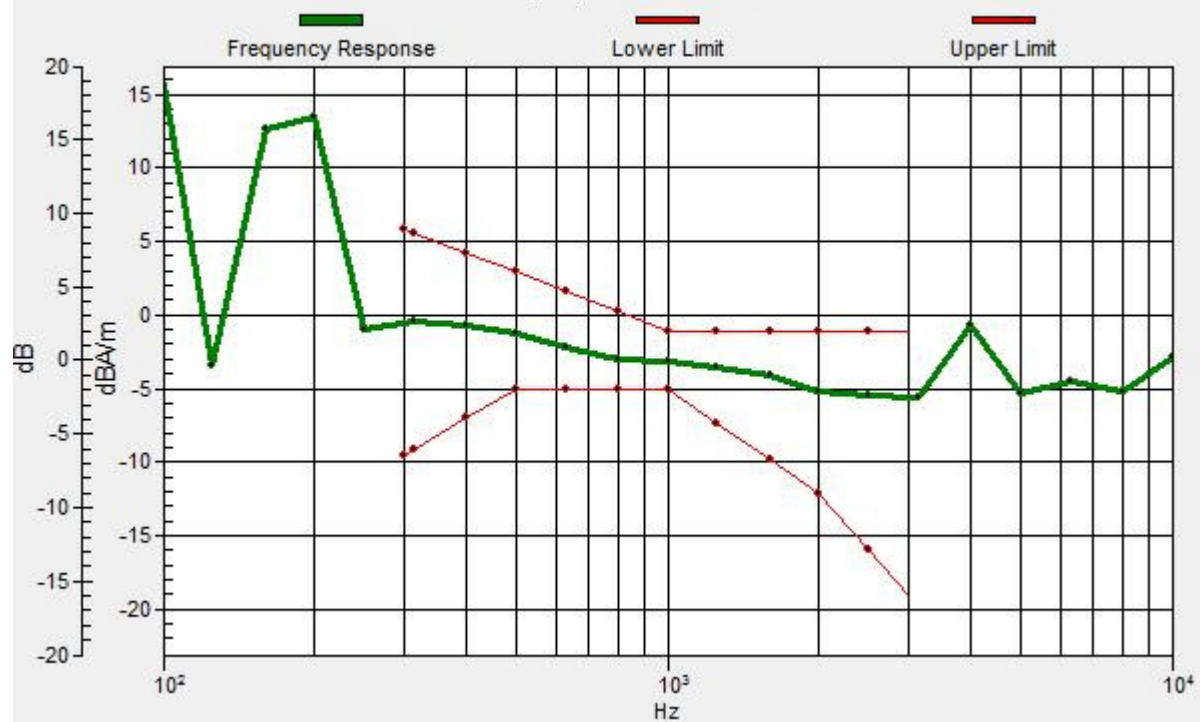
ABM1 comp = -3.61 dBA/m

Location: 0, 4.2, 3.7 mm



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

Loc: 0, 4.2, 3.7 mm Diff: 2dB



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

Communication System: WCDMA; 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 : 23.4 °C

**DASY5 Configuration**

- Probe: AM1DV3 - 3130; ; Calibrated: 2015/11/10
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2015/11/23
- 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)

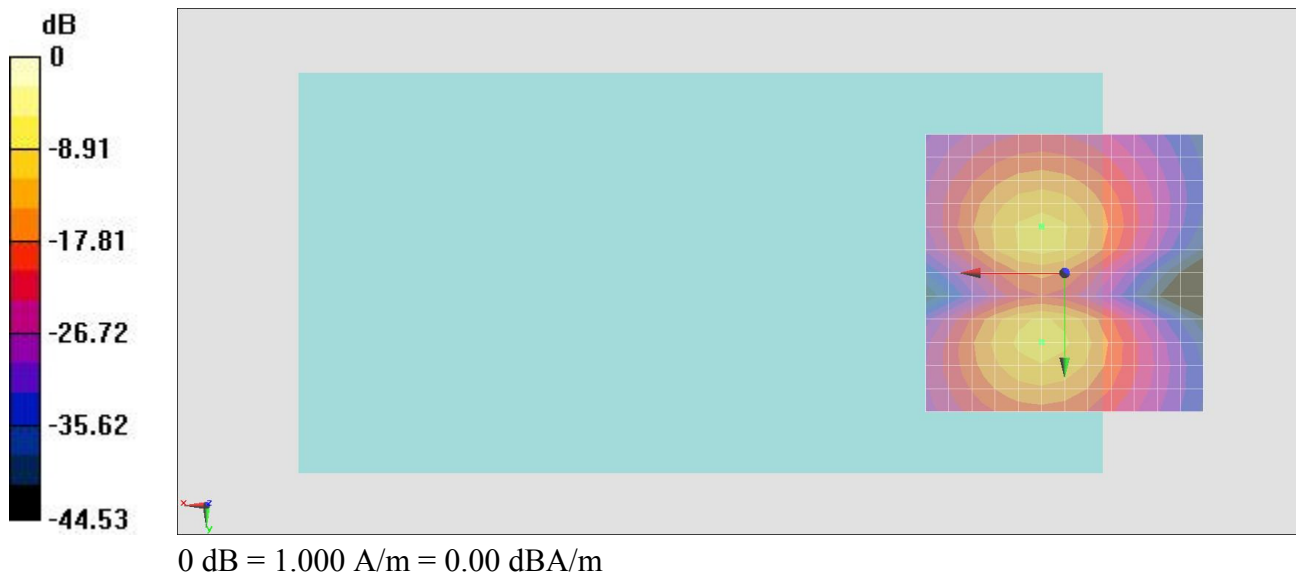
**General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement**

grid: dx=10mm, dy=10mm

ABM1/ABM2 = 35.11 dB

ABM1 comp = -10.44 dBA/m

Location: 4.2, -8.3, 3.7 mm



**#03\_HAC\_T-Coil\_LTE Band 2\_20M\_QPSK\_1RB\_0offset\_NB AMR  
12.2Kbps\_Ch18900\_Axial (Z)**

Communication System: LTE; 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 - 3130; ; Calibrated: 2015/11/10
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2015/11/23
- 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)

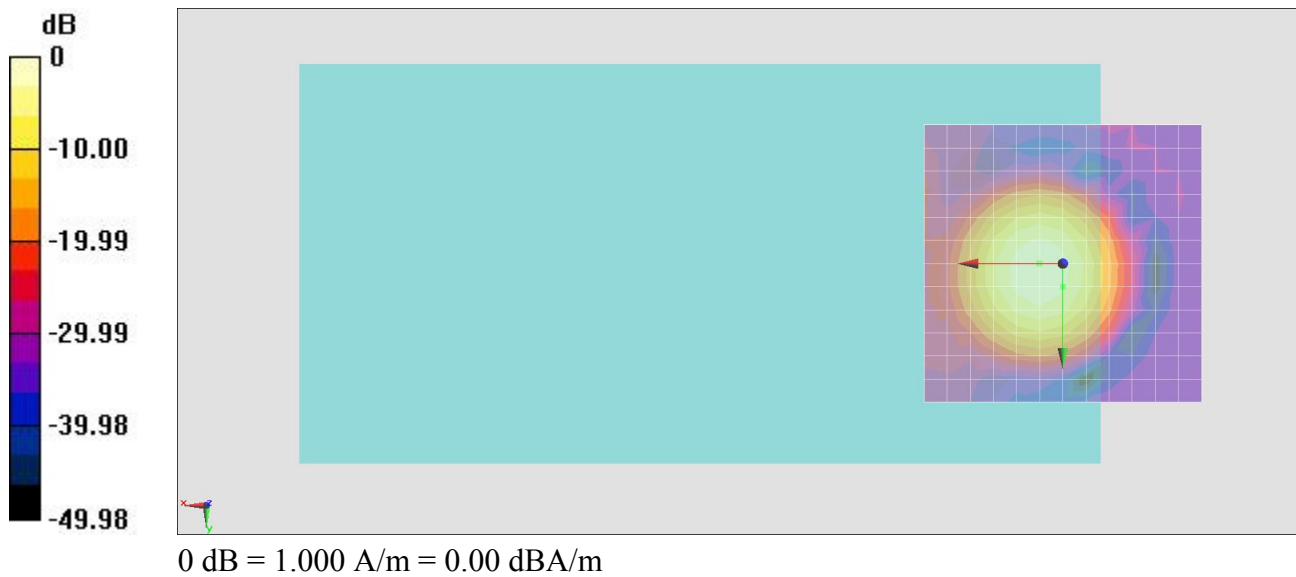
**General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 34.51 dB

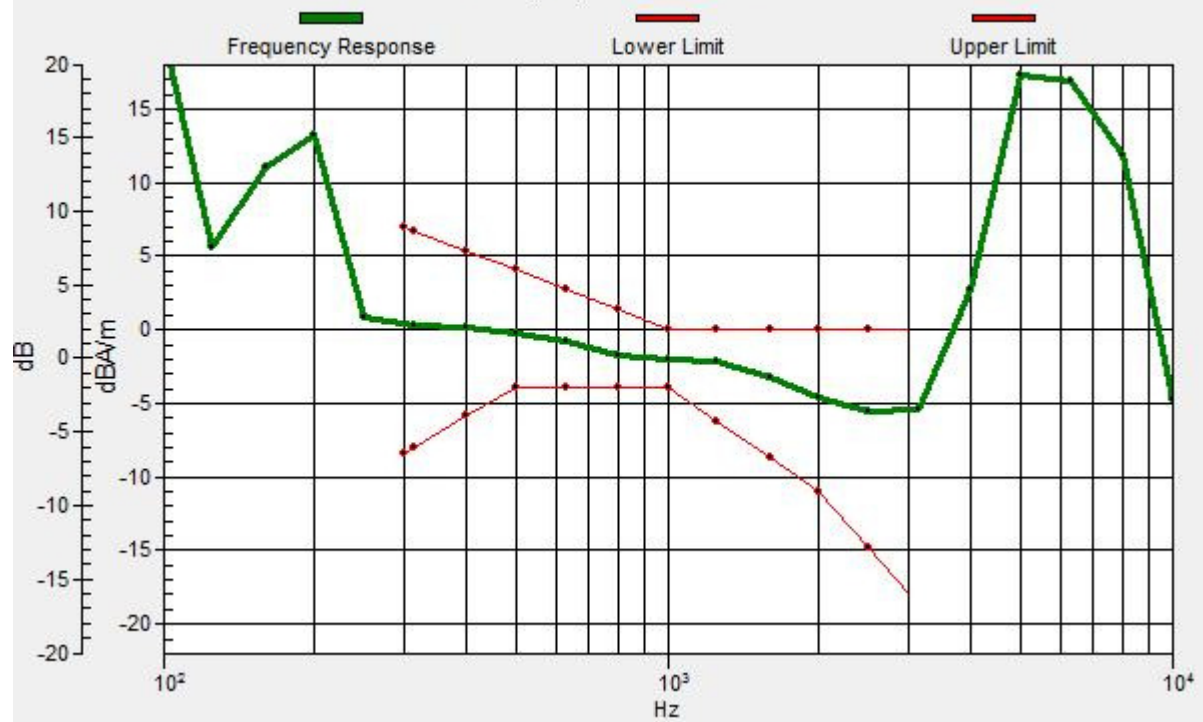
ABM1 comp = -2.37 dBA/m

Location: 0, 4.2, 3.7 mm



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

Loc: 0, 4.2, 3.7 mm Diff: 2dB



**#03\_HAC\_T-Coil\_LTE Band 2\_20M\_QPSK\_1RB\_0offset\_NB AMR  
12.2Kbps\_Ch18900\_Transversal (Y)**

Communication System: LTE; 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 - 3130; ; Calibrated: 2015/11/10
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2015/11/23
- 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)

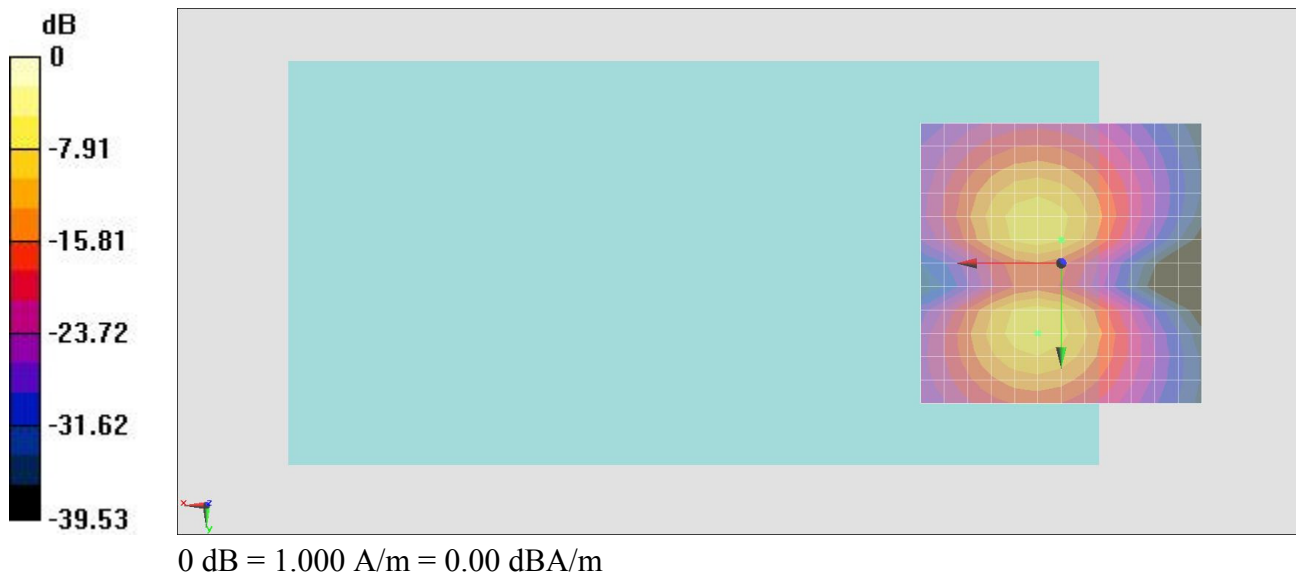
**General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement**

grid: dx=10mm, dy=10mm

ABM1/ABM2 = 33.06 dB

ABM1 comp = -10.25 dBA/m

Location: 0, -4.2, 3.7 mm



**#04\_HAC\_T-Coil\_LTE Band 2\_20M\_QPSK\_1RB\_0offset\_NB AMR  
12.2Kbps\_Ch18900\_Axial (Z)**

Communication System: LTE; 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 - 3130; ; Calibrated: 2015/11/10
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2015/11/23
- 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)

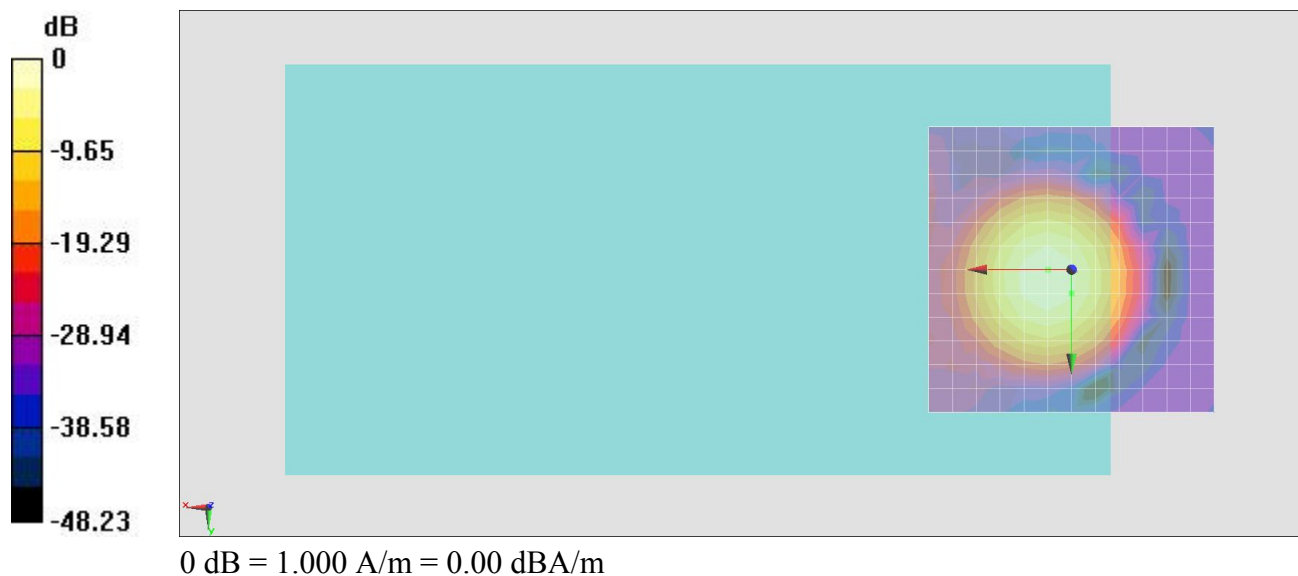
**General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 34.86 dB

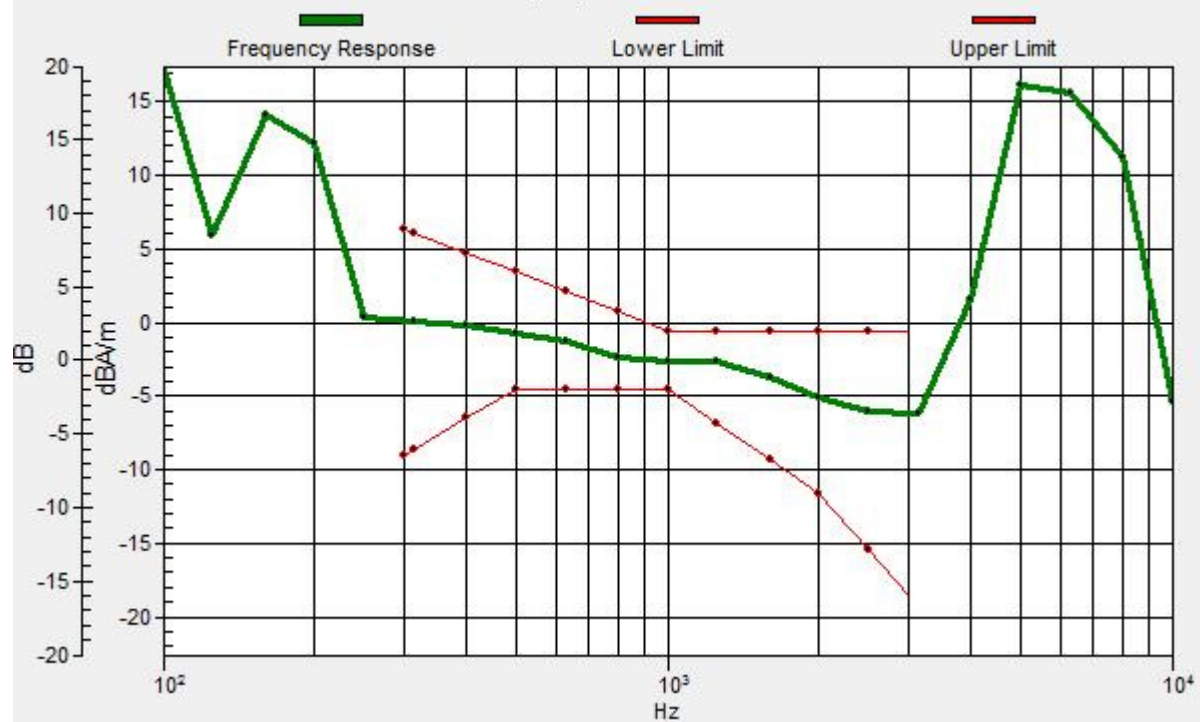
ABM1 comp = -2.58 dBA/m

Location: 0, 4.2, 3.7 mm



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

Loc: 0, 4.2, 3.7 mm Diff: 2dB



**#04\_HAC\_T-Coil\_LTE Band 2\_20M\_QPSK\_1RB\_0offset\_NB AMR  
12.2Kbps\_Ch18900\_Transversal (Y)**

Communication System: LTE; 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 - 3130; ; Calibrated: 2015/11/10
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2015/11/23
- 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)

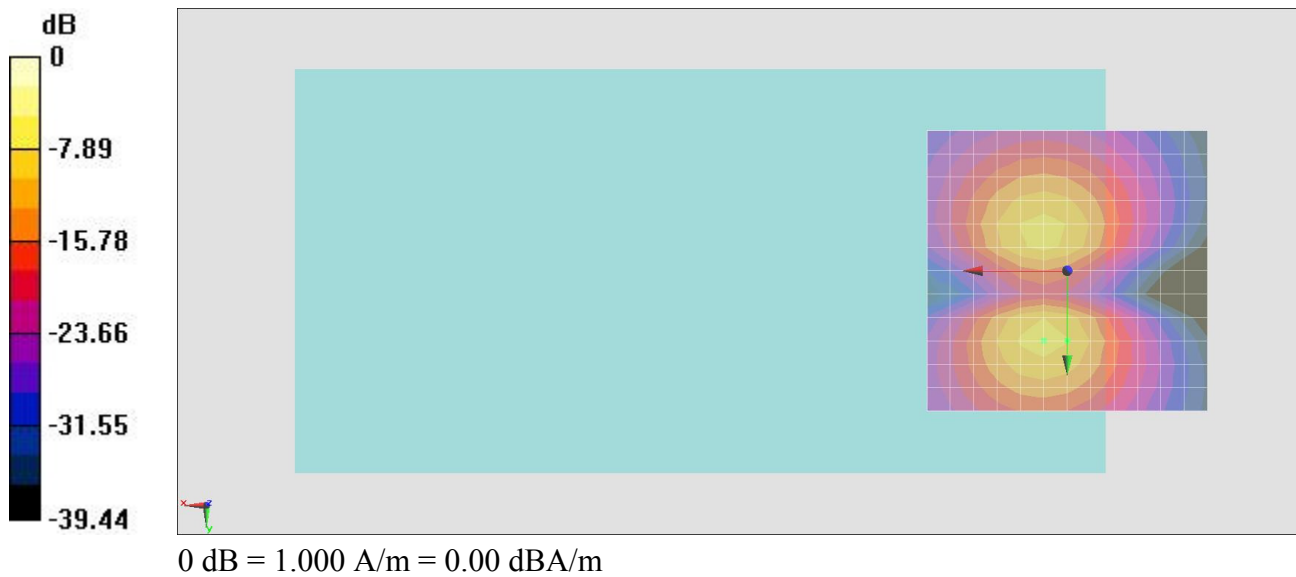
**General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement**

grid: dx=10mm, dy=10mm

ABM1/ABM2 = 33.33 dB

ABM1 comp = -10.31 dBA/m

Location: 0, 12.5, 3.7 mm



**#05\_HAC\_T-Coil\_LTE Band 4\_20M\_QPSK\_1RB\_0offset\_NB AMR  
12.2Kbps\_Ch20175\_Axial (Z)**

Communication System: LTE; Frequency: 1732.5 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 - 3130; ; Calibrated: 2015/11/10
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2015/11/23
- 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)

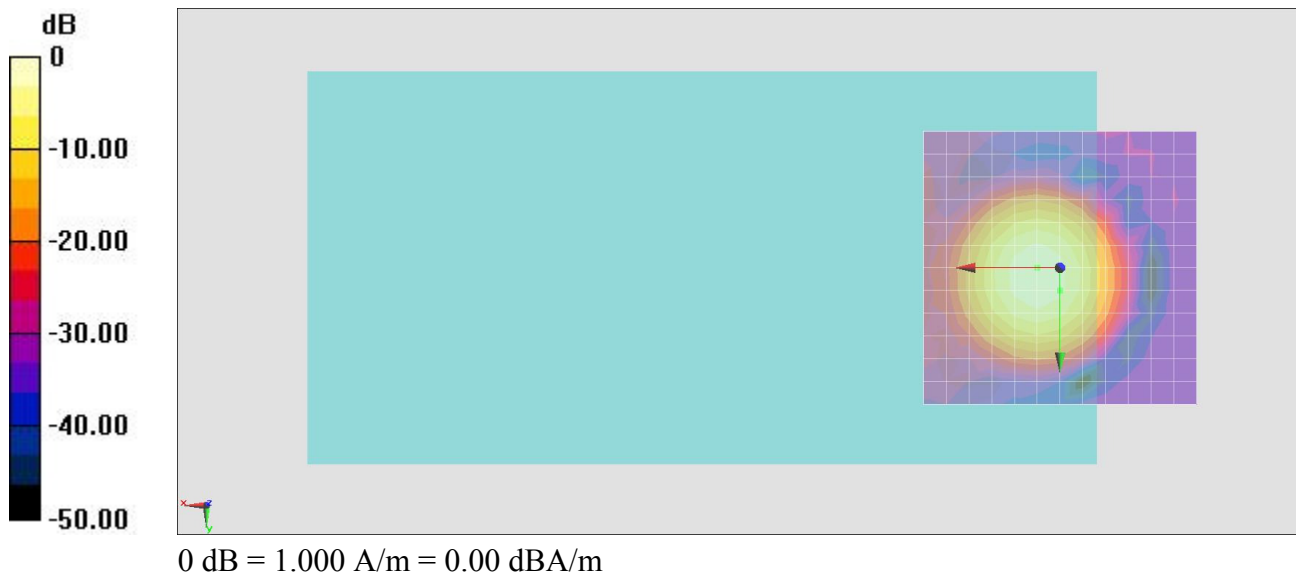
**General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 34.67 dB

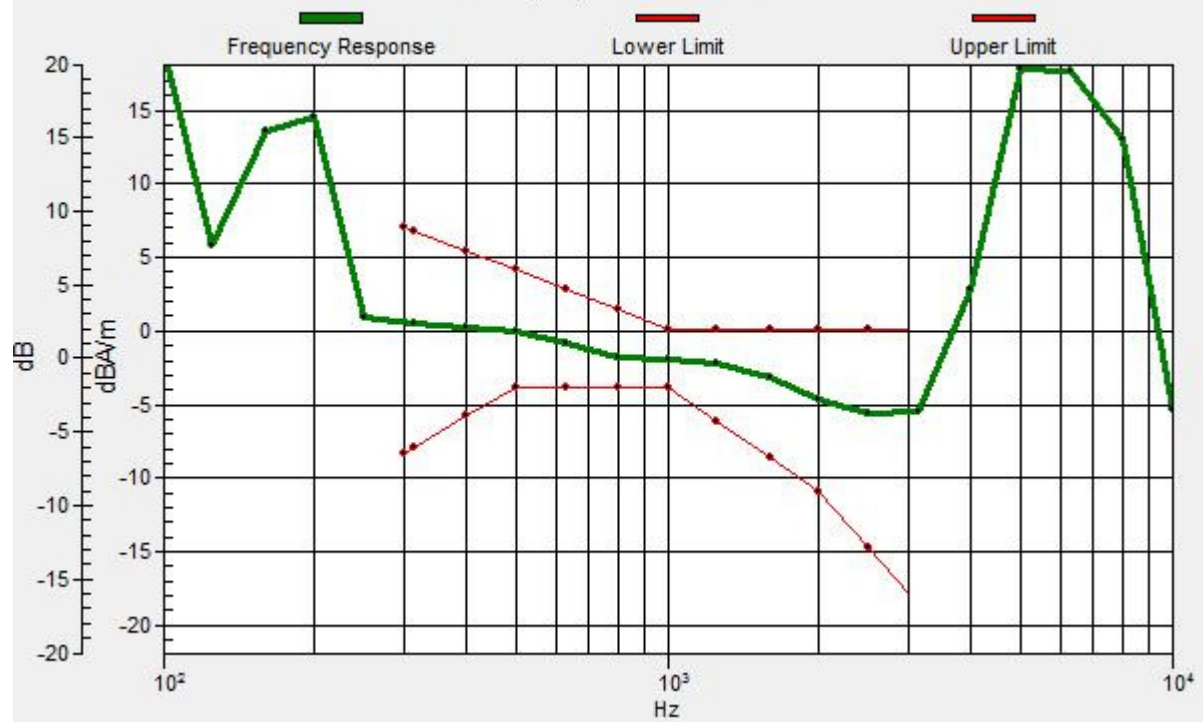
ABM1 comp = -2.32 dBA/m

Location: 0, 4.2, 3.7 mm



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

Loc: 0, 4.2, 3.7 mm Diff: 2dB



**#05\_HAC\_T-Coil\_LTE Band 4\_20M\_QPSK\_1RB\_0offset\_NB AMR  
12.2Kbps\_Ch20175\_Transversal (Y)**

Communication System: LTE; Frequency: 1732.5 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 - 3130; ; Calibrated: 2015/11/10
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2015/11/23
- 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)

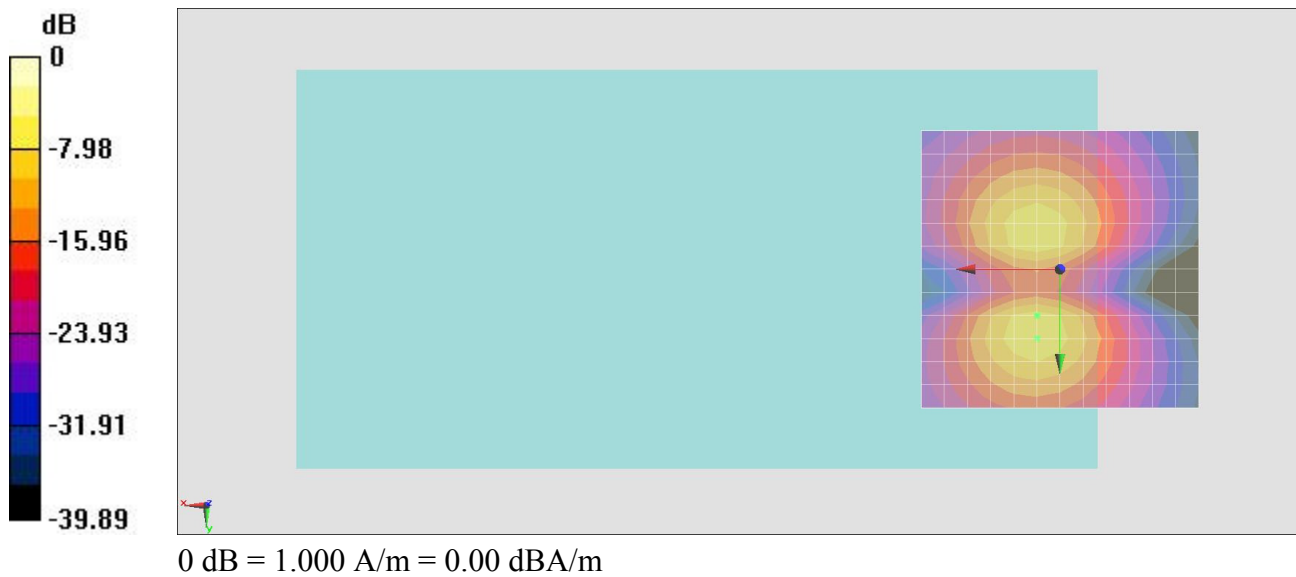
**General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement**

grid: dx=10mm, dy=10mm

ABM1/ABM2 = 32.88 dB

ABM1 comp = -9.15 dBA/m

Location: 4.2, 8.3, 3.7 mm



**#06\_HAC\_T-Coil\_LTE Band 4\_20M\_QPSK\_1RB\_0offset\_NB AMR  
12.2Kbps\_Ch20175\_Axial (Z)**

Communication System: LTE ; Frequency: 1732.5 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 - 3130; ; Calibrated: 2015/11/10
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2015/11/23
- 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)

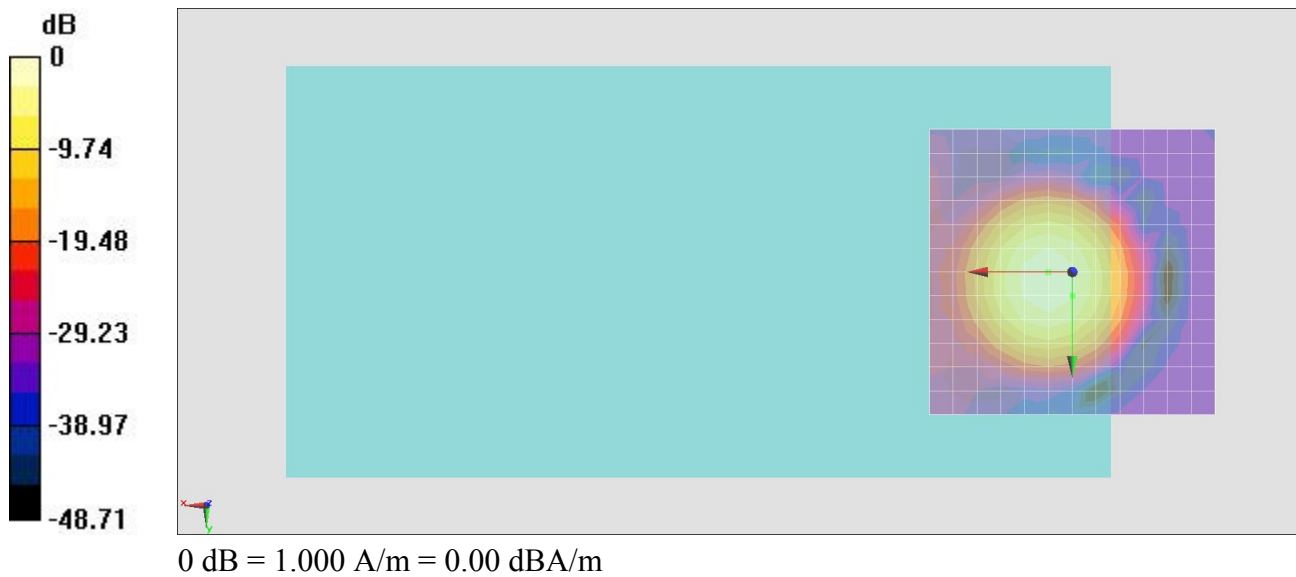
**General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 35.31 dB

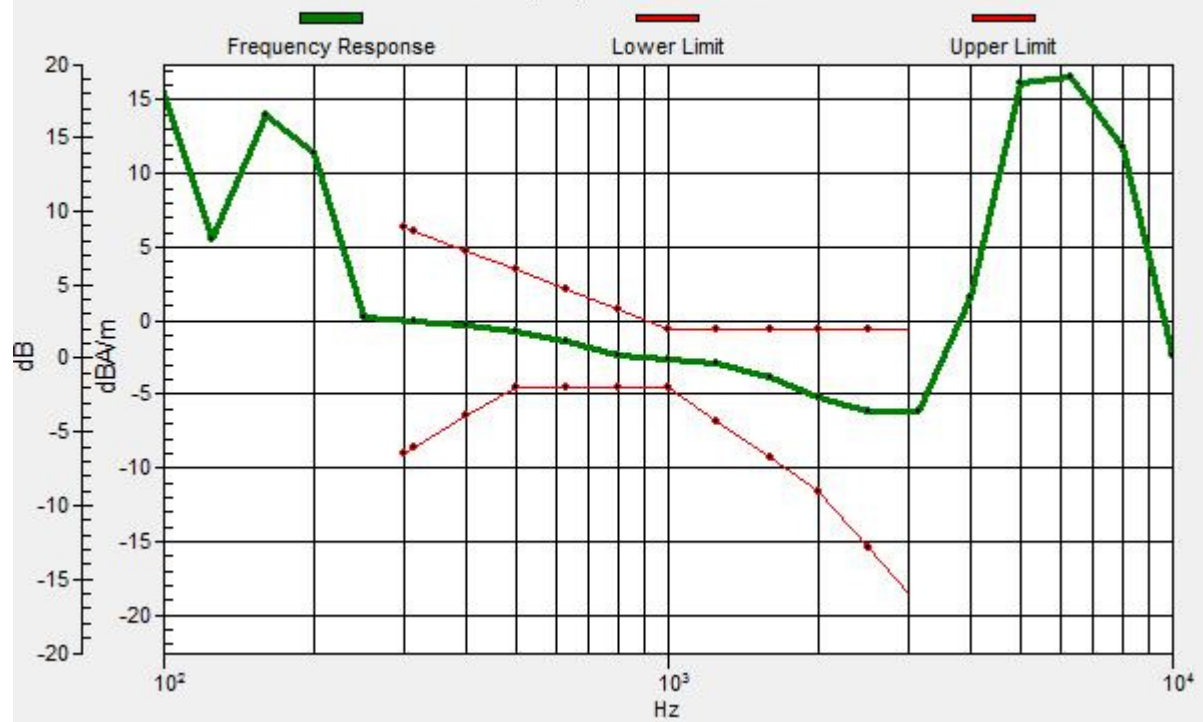
ABM1 comp = -2.77 dBA/m

Location: 0, 4.2, 3.7 mm



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

Loc: 0, 4.2, 3.7 mm Diff: 2dB



# **#06\_HAC\_T-Coil\_LTE Band 4\_20M\_QPSK\_1RB\_0offset\_NB AMR 12.2Kbps\_Ch20175\_Transversal (Y)**

Communication System: LTE; Frequency: 1732.5 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 - 3130; ; Calibrated: 2015/11/10
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2015/11/23
- 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)

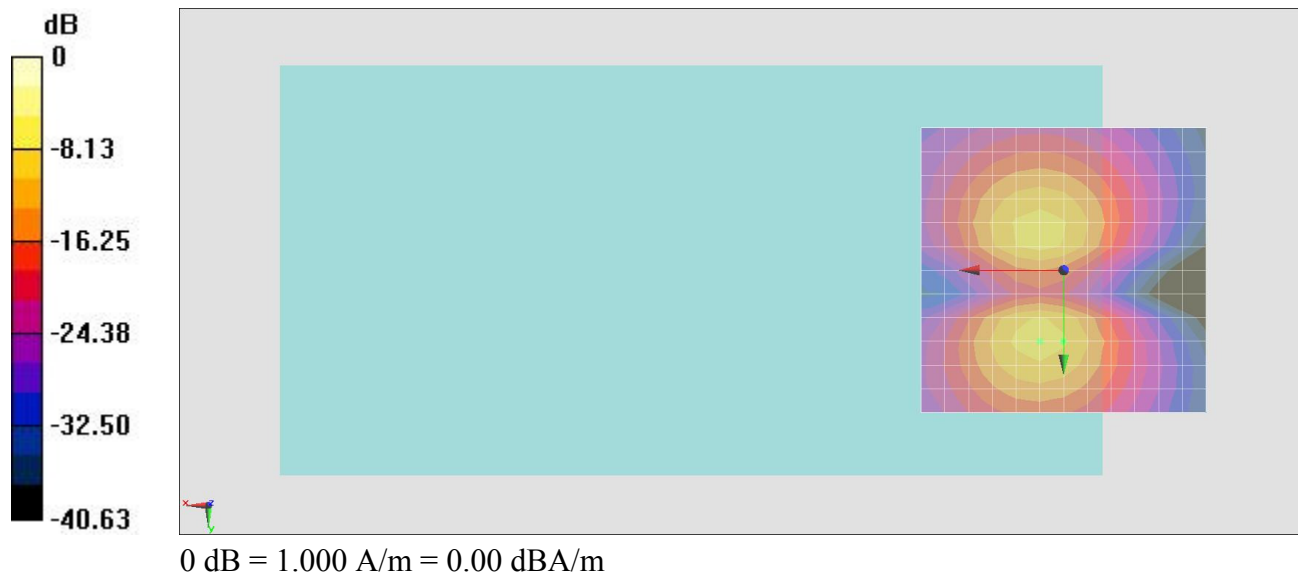
## **General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement**

grid: dx=10mm, dy=10mm

ABM1/ABM2 = 32.72 dB

ABM1 comp = -10.33 dBA/m

Location: 0, 12.5, 3.7 mm



**#07\_HAC\_T-Coil\_LTE Band 12\_10M\_QPSK\_1RB\_0offset\_NB AMR  
12.2Kbps\_Ch23095\_Axial (Z)**

Communication System: LTE; Frequency: 707.5 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 - 3130; ; Calibrated: 2015/11/10
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2015/11/23
- 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)

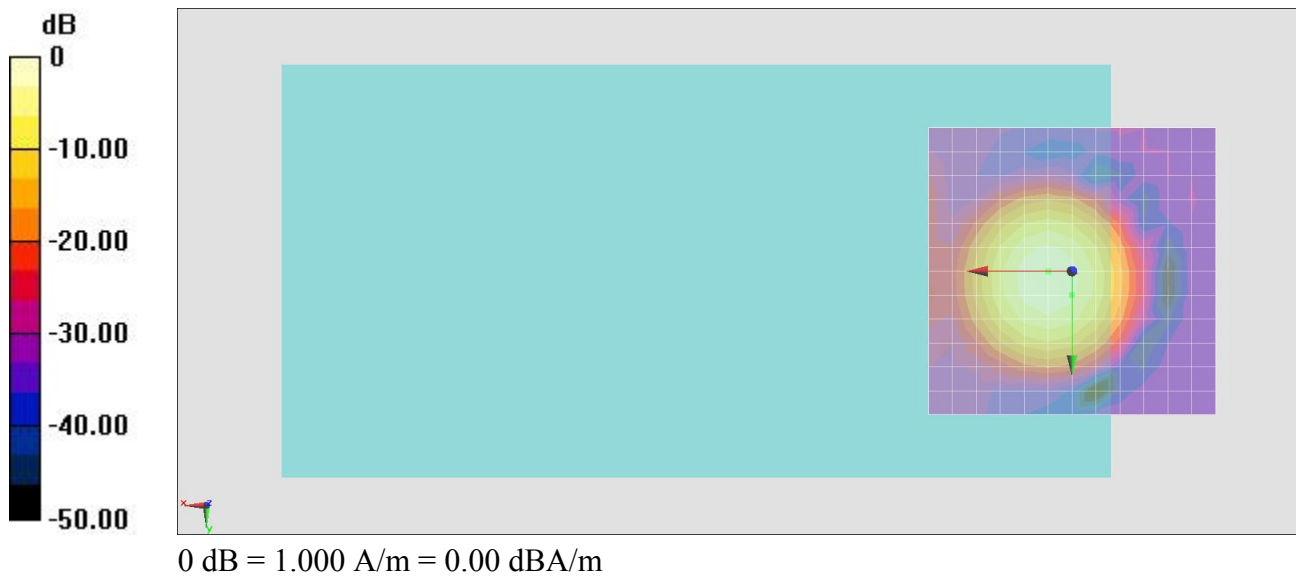
**General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 34.34 dB

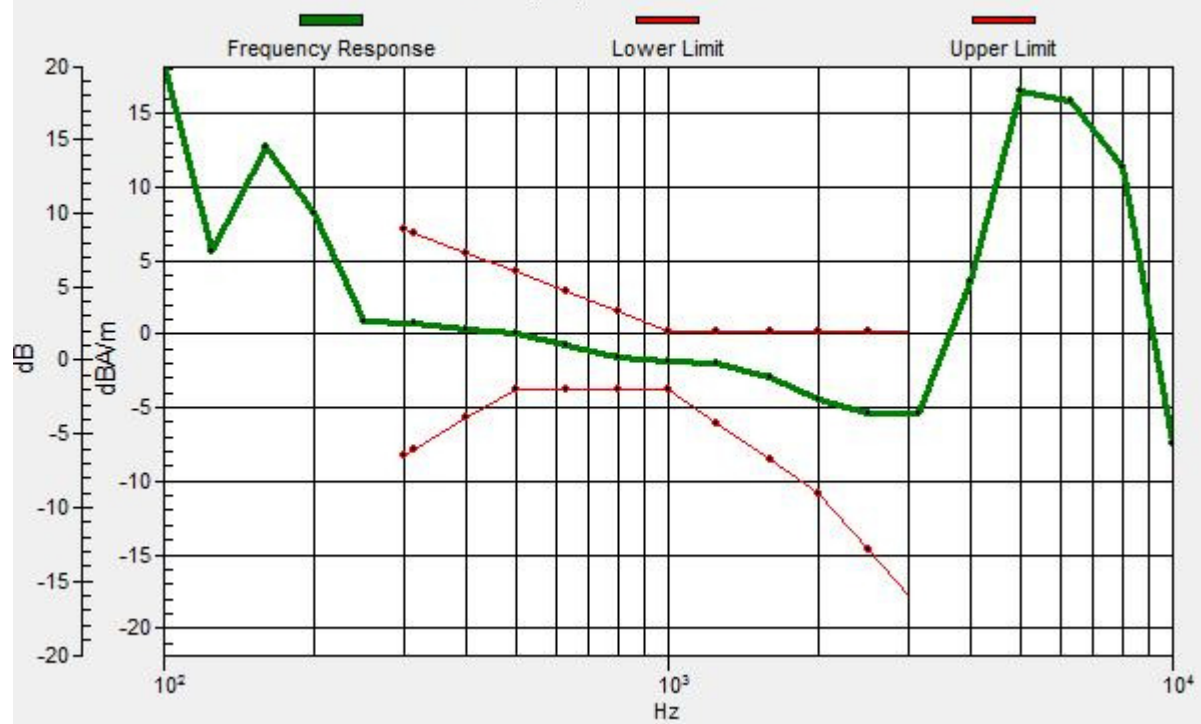
ABM1 comp = -2.29 dBA/m

Location: 0, 4.2, 3.7 mm



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

Loc: 0, 4.2, 3.7 mm Diff: 2dB



**#07\_HAC\_T-Coil\_LTE Band 12\_10M\_QPSK\_1RB\_0offset\_NB AMR  
12.2Kbps\_Ch23095\_Transversal (Y)**

Communication System: LTE; Frequency: 707.5 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 - 3130; ; Calibrated: 2015/11/10
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2015/11/23
- 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)

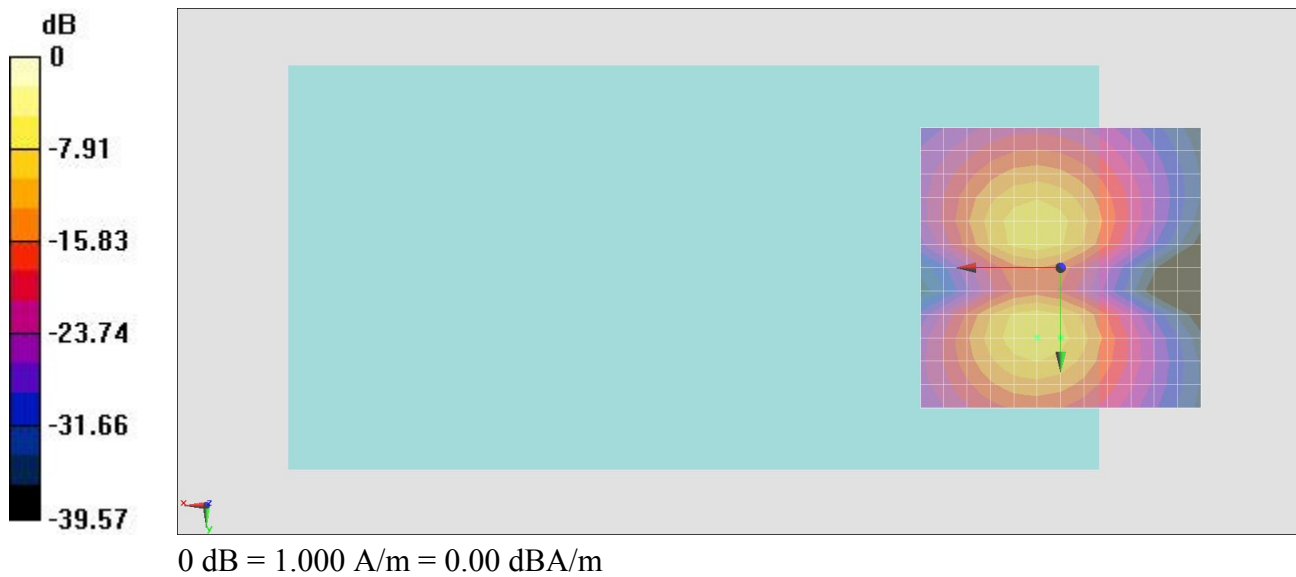
**General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement**

grid: dx=10mm, dy=10mm

ABM1/ABM2 = 32.86 dB

ABM1 comp = -9.43 dBA/m

Location: 0, 12.5, 3.7 mm



**#08\_HAC\_T-Coil\_LTE Band 12\_10M\_QPSK\_1RB\_0offset\_NB AMR  
12.2Kbps\_Ch23095\_Axial (Z)**

Communication System: LTE; Frequency: 707.5 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 - 3130; ; Calibrated: 2015/11/10
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2015/11/23
- 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)

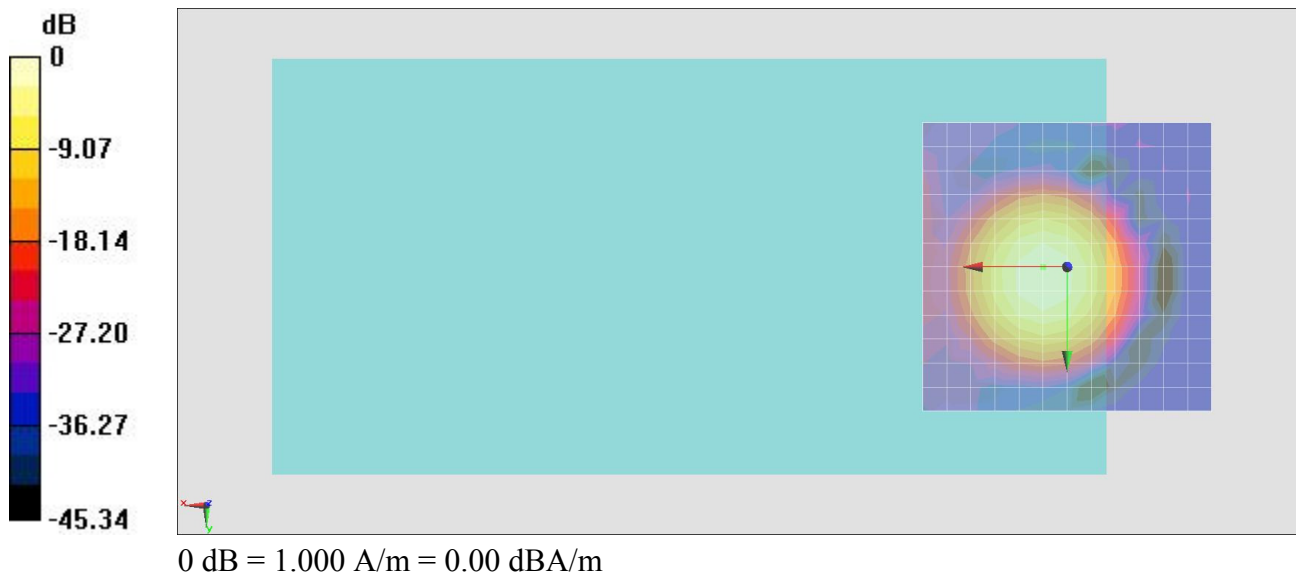
**General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:**

dx=10mm, dy=10mm

ABM1/ABM2 = 36.05 dB

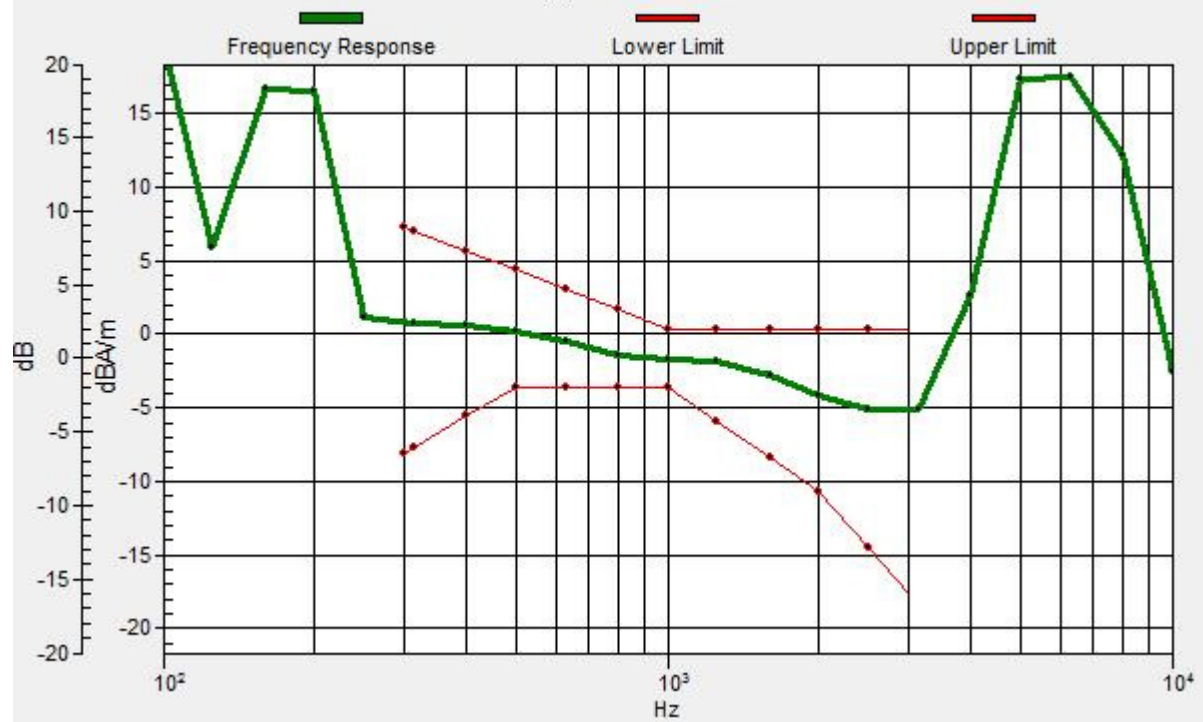
ABM1 comp = -1.82 dBA/m

Location: 0, 0, 3.7 mm



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

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



**#08\_HAC\_T-Coil\_LTE Band 12\_10M\_QPSK\_1RB\_0offset\_NB AMR  
12.2Kbps\_Ch23095\_Transversal (Y)**

Communication System: LTE; Frequency: 707.5 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 - 3130; ; Calibrated: 2015/11/10
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2015/11/23
- 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)

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

grid: dx=10mm, dy=10mm

ABM1/ABM2 = 34.28 dB

ABM1 comp = -9.35 dBA/m

Location: 0, -8.3, 3.7 mm

