

## #01\_HAC\_T-Coil\_GSM850\_GSM Voice\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

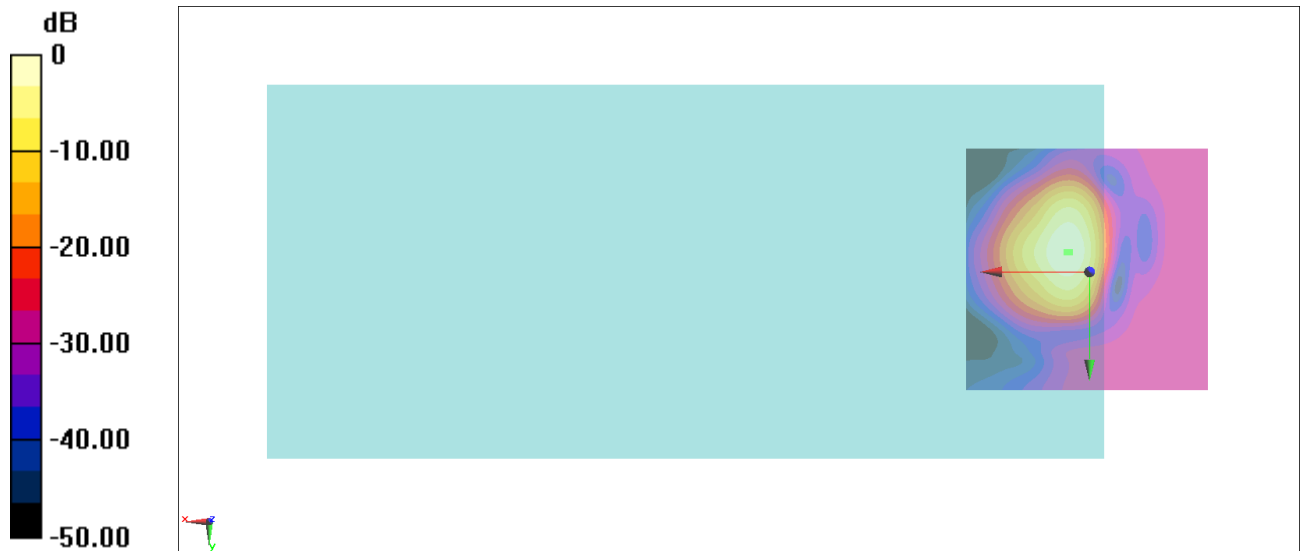
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 44.80 dB

ABM1 comp = 8.99 dBA/m

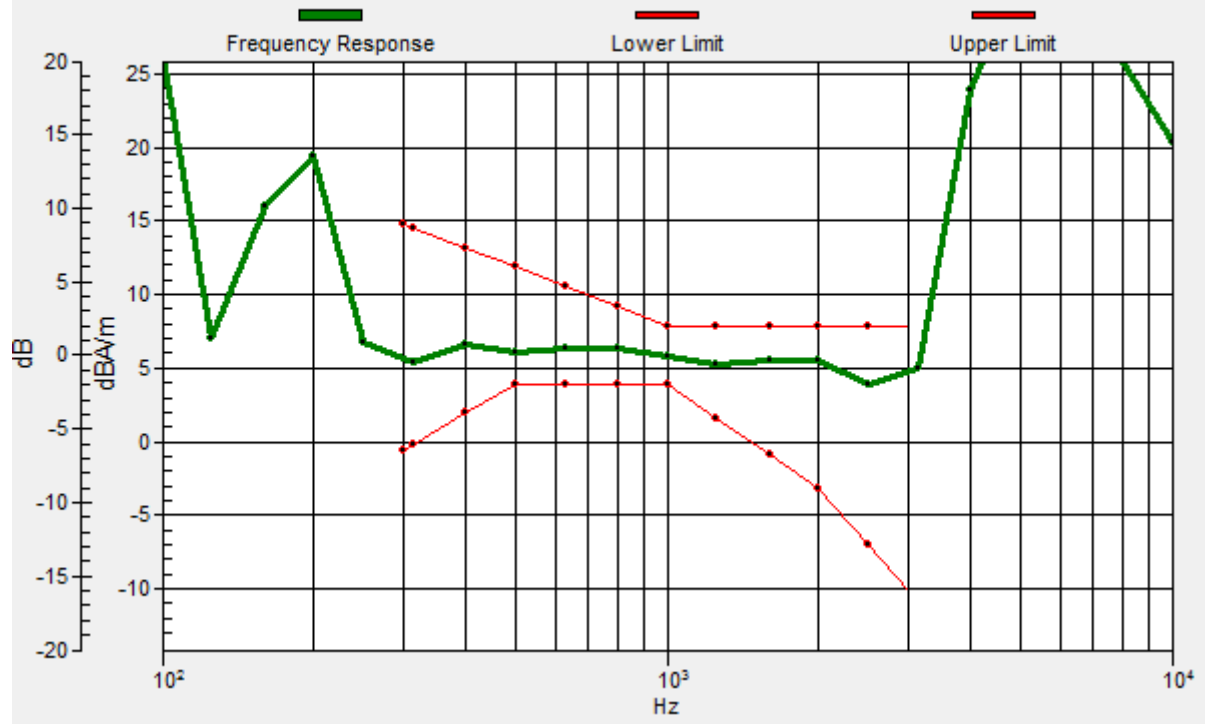
Location: 4.7, -4, 3.7 mm



0 dB = 173.9 = 44.81 dB

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

Loc: 4, -4, 3.7 mm Diff: 2dB



## #01\_HAC\_T-Coil\_GSM850\_GSM Voice\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

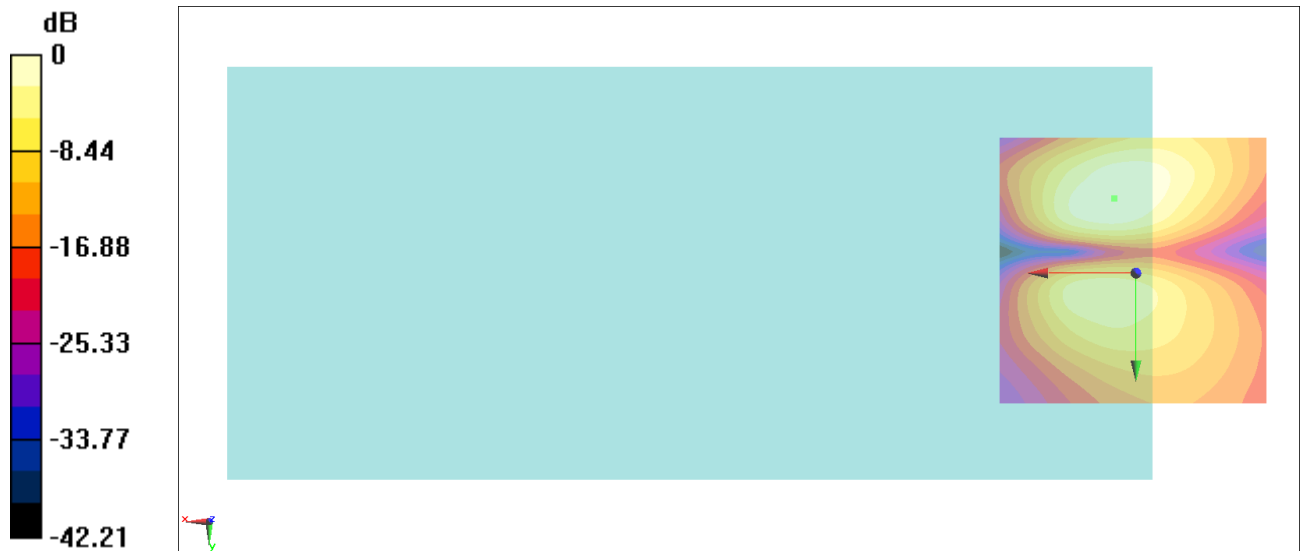
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 36.80 dB

ABM1 comp = 2.70 dBA/m

Location: 4, -13.8, 3.7 mm



0 dB = 69.17 = 36.80 dB

## #02\_HAC\_T-Coil\_GSM1900\_GSM Voice\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

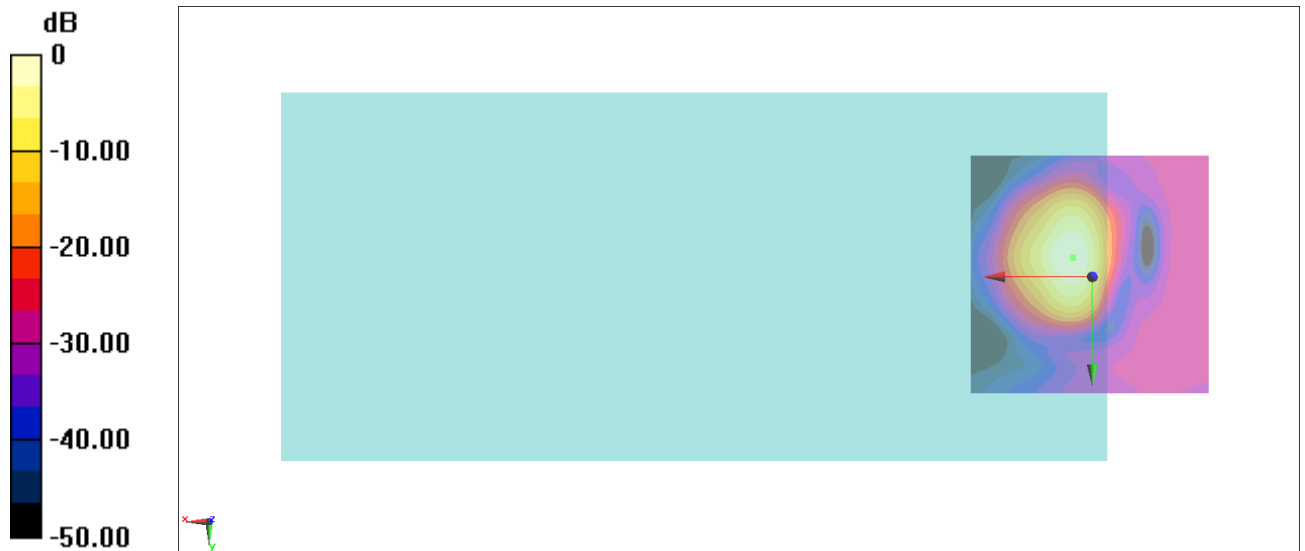
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 47.97 dB

ABM1 comp = 9.34 dBA/m

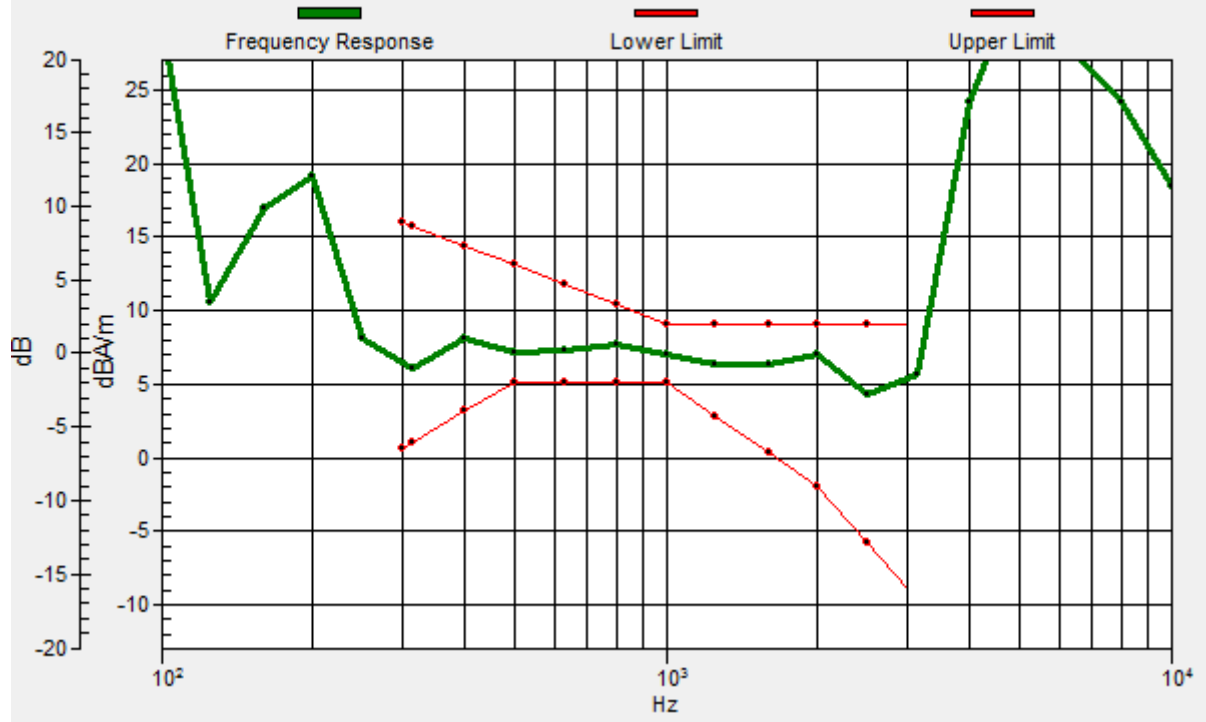
Location: 4, -4, 3.7 mm



0 dB = 250.3 = 47.97 dB

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

Loc: 4, -4, 3.7 mm Diff: 2dB



## #02\_HAC\_T-Coil\_GSM1900\_GSM Voice\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

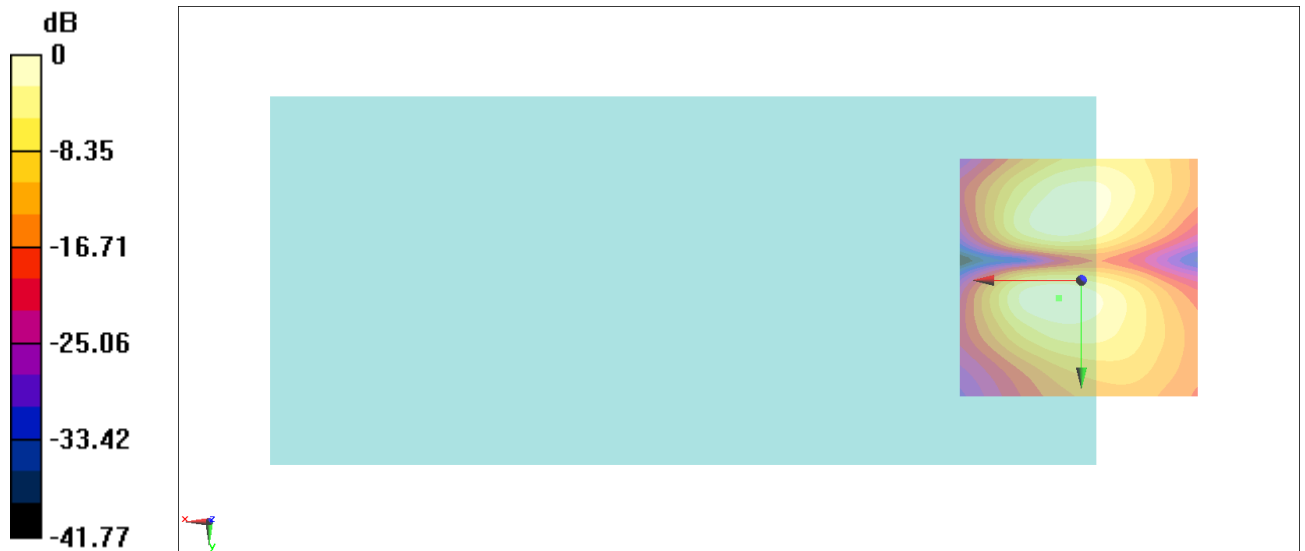
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 35.99 dB

ABM1 comp = 4.46 dBA/m

Location: 4.7, 3.7, 3.7 mm



0 dB = 63.06 = 36.00 dB

### #03\_HAC\_T-Coil\_WCDMA II\_Voice\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

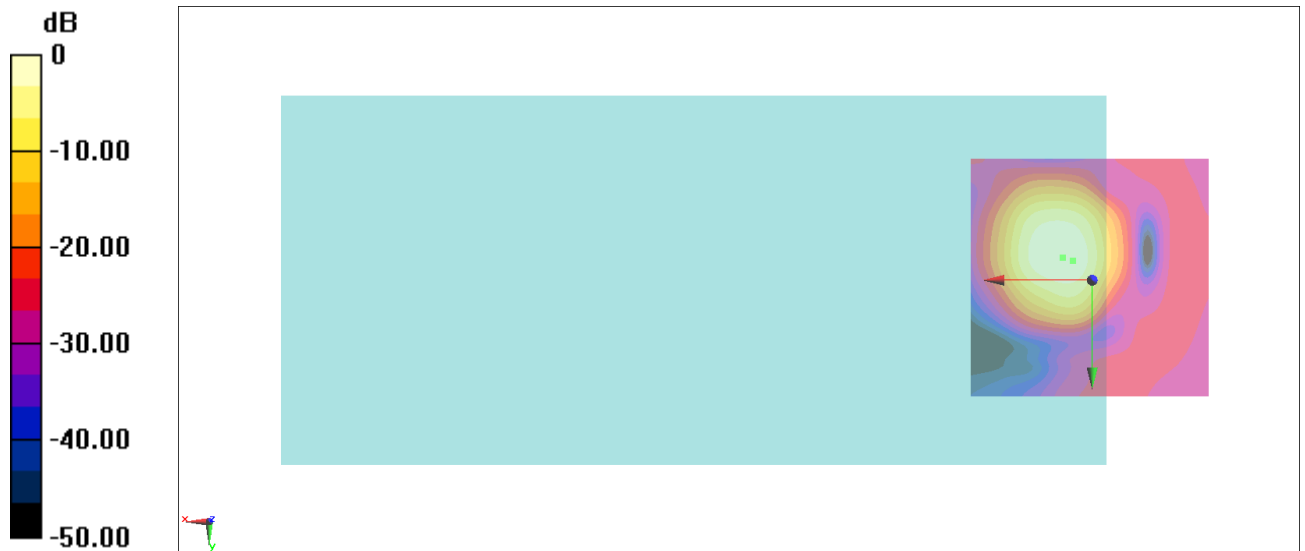
#### General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 55.15 dB

ABM1 comp = 12.25 dBA/m

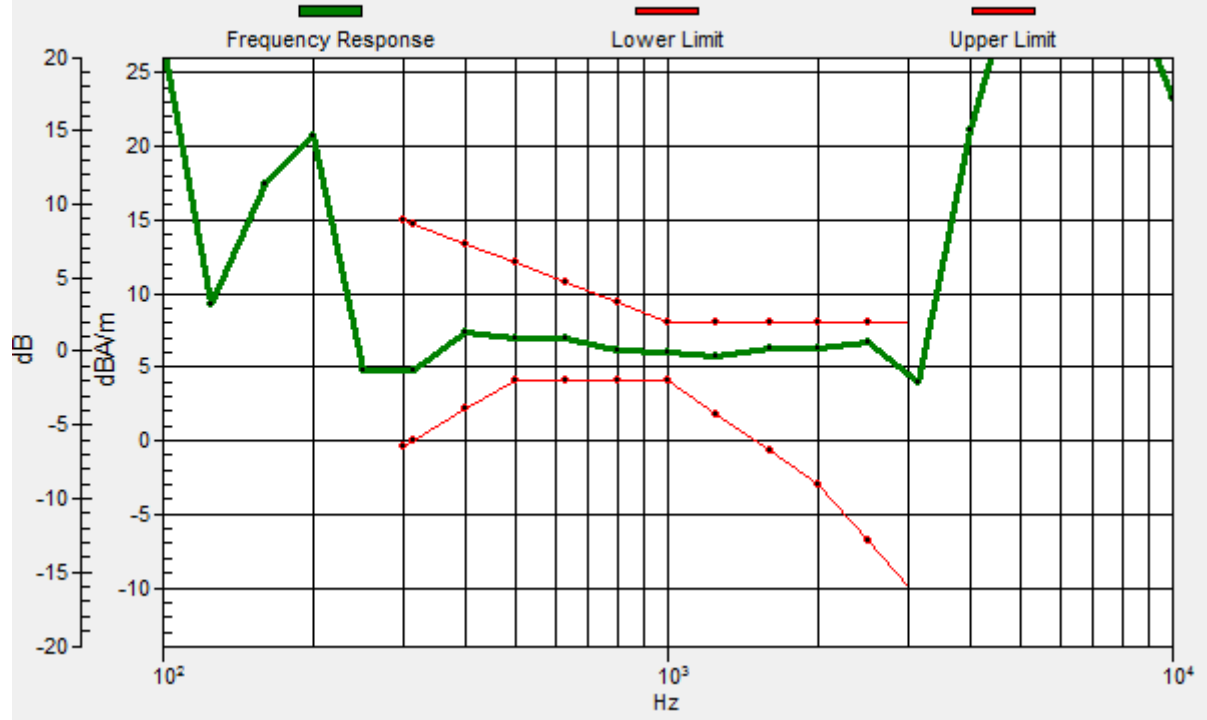
Location: 6.1, -4.7, 3.7 mm



0 dB = 572.0 = 55.15 dB

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

Loc: 4, -4, 3.7 mm Diff: 1.45dB





### #03\_HAC\_T-Coil\_WCDMA II\_Voice\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

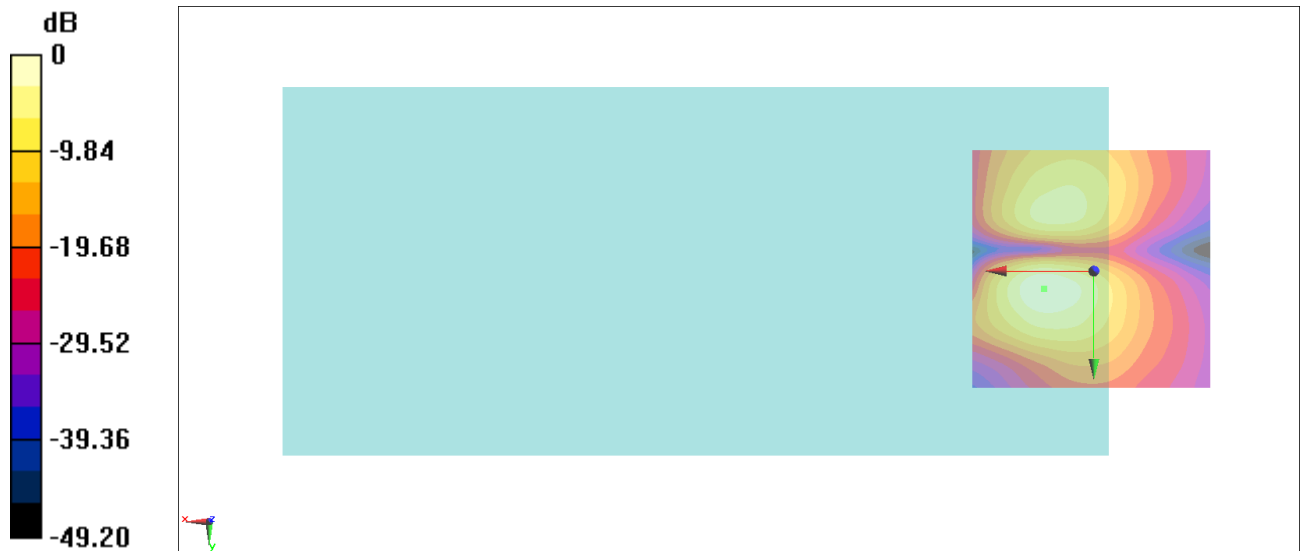
#### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 52.27 dB

ABM1 comp = 7.89 dBA/m

Location: 10.3, 3.7, 3.7 mm



0 dB = 410.6 = 52.27 dB

### #04\_HAC\_T-Coil\_WCDMA IV\_Voice\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

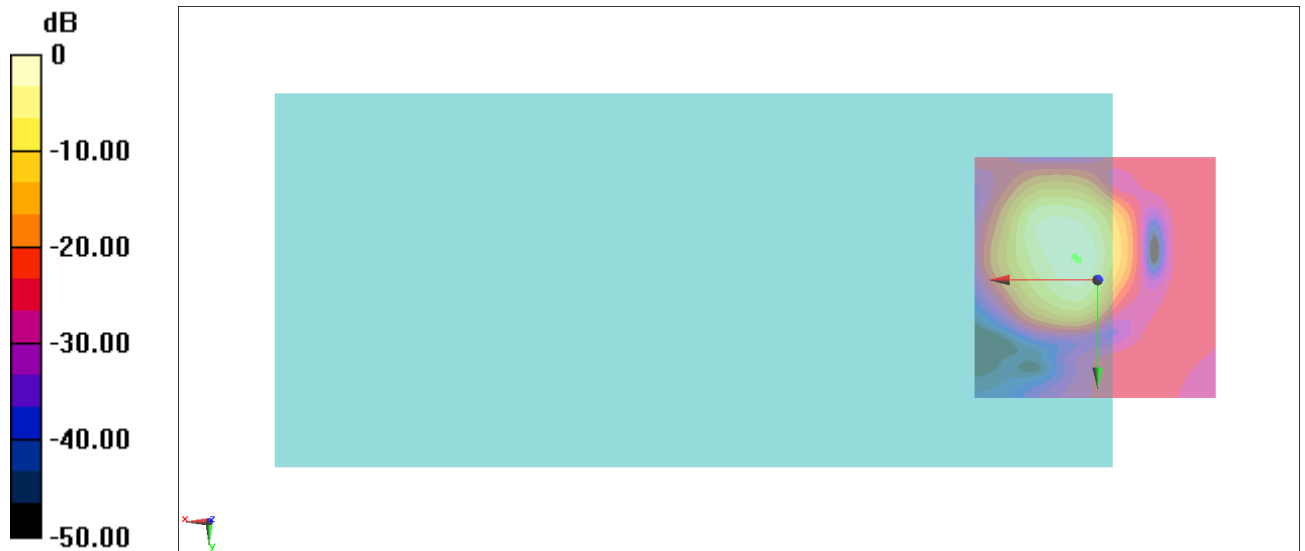
#### General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 53.81 dB

ABM1 comp = 9.99 dBA/m

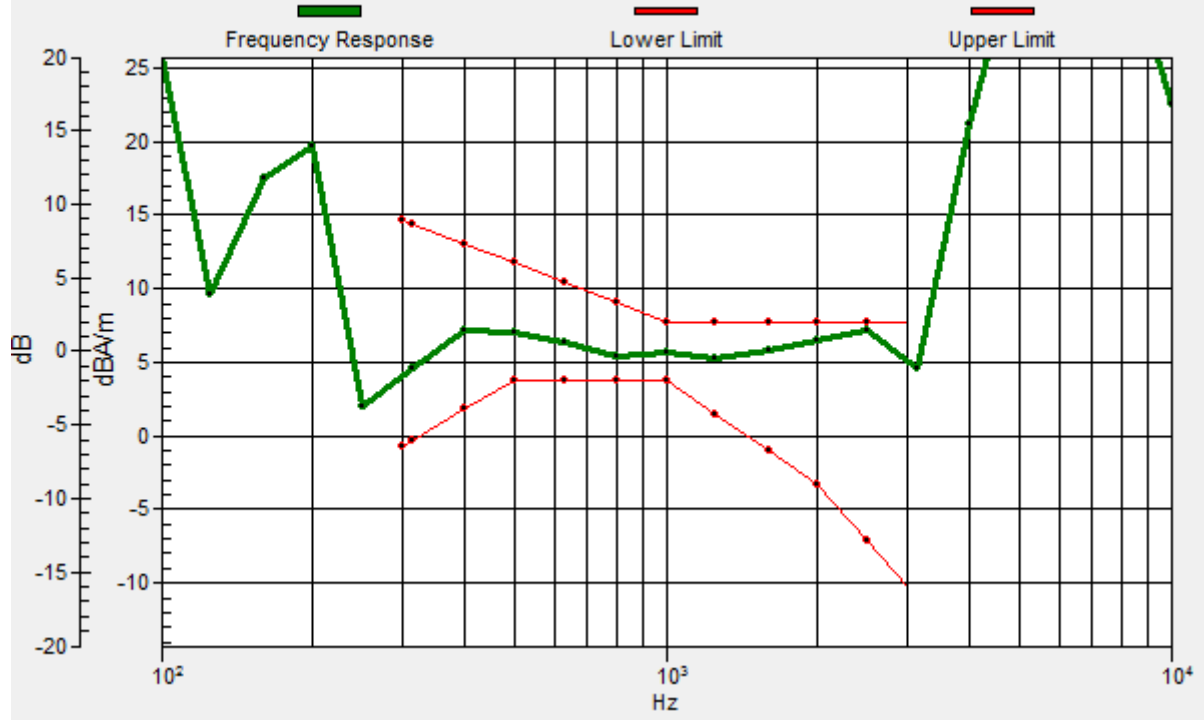
Location: 4.7, -4.7, 3.7 mm



0 dB = 490.6 = 53.81 dB

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

Loc: 4, -4, 3.7 mm Diff: 0.55dB



## #04\_HAC\_T-Coil\_WCDMA IV\_Voice\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

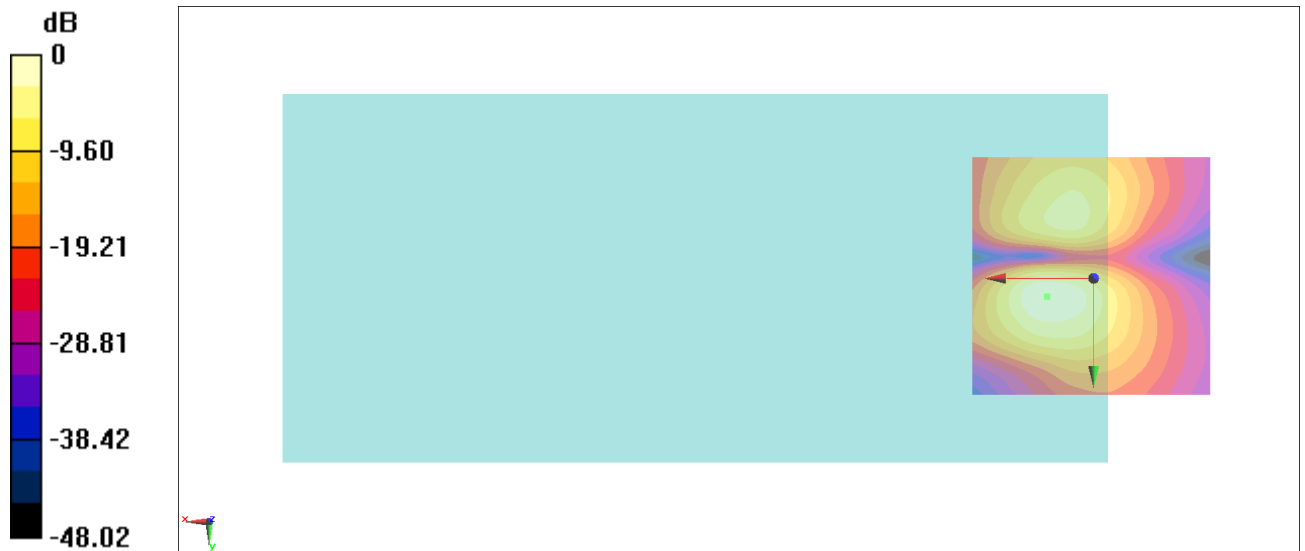
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 52.18 dB

ABM1 comp = 7.77 dBA/m

Location: 9.6, 3.7, 3.7 mm



0 dB = 406.6 = 52.18 dB

### #05\_HAC\_T-Coil\_WCDMA V\_Voice\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

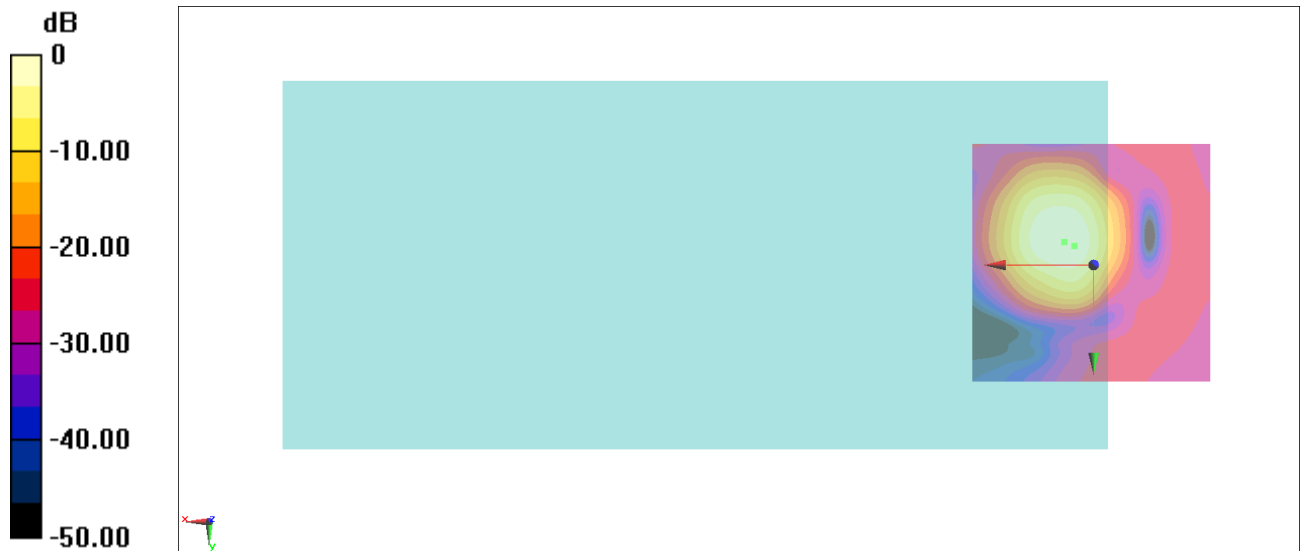
#### General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 55.12 dB

ABM1 comp = 12.20 dBA/m

Location: 6.1, -4.7, 3.7 mm



0 dB = 569.9 = 55.12 dB

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

Loc: 4, -4, 3.7 mm Diff: 0.54dB



## #05\_HAC\_T-Coil\_WCDMA V\_Voice\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

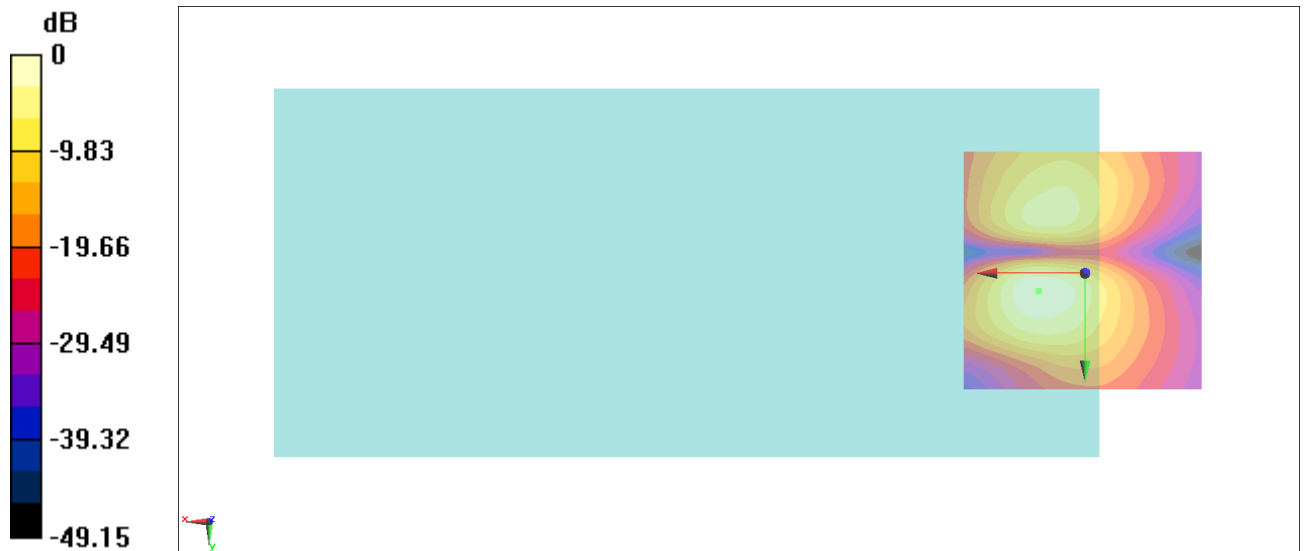
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 52.72 dB

ABM1 comp = 7.90 dBA/m

Location: 9.6, 3.7, 3.7 mm



0 dB = 432.3 = 52.72 dB

### #06\_HAC\_T-Coil\_LTE Band 2\_20M\_QPSK\_1\_0\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

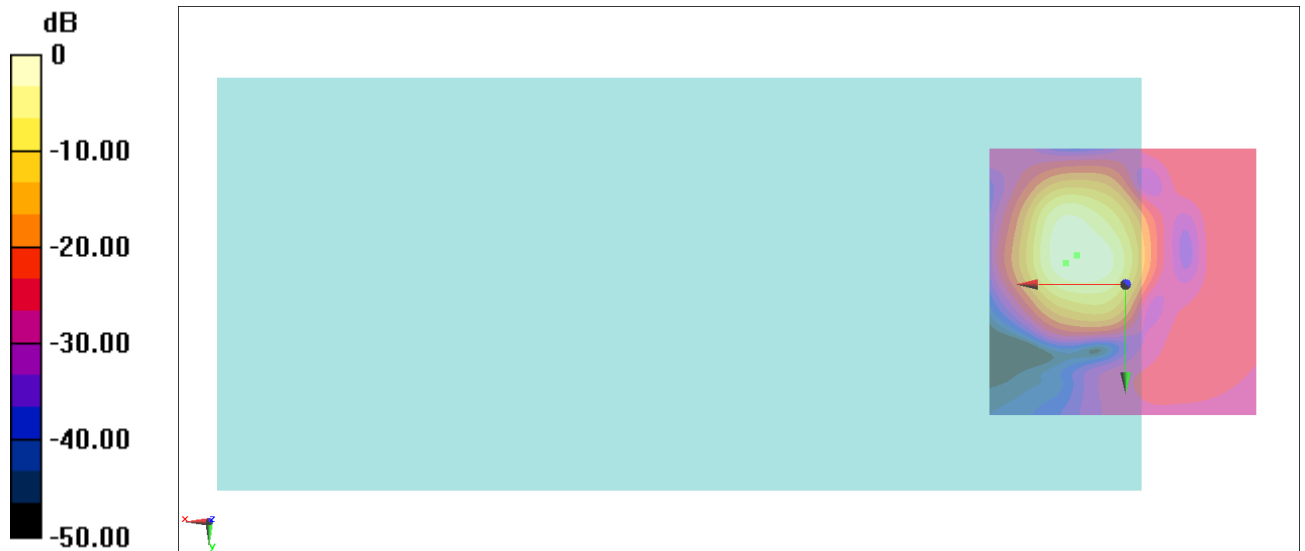
#### General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 48.59 dB

ABM1 comp = 12.43 dBA/m

Location: 8.9, -5.4, 3.7 mm

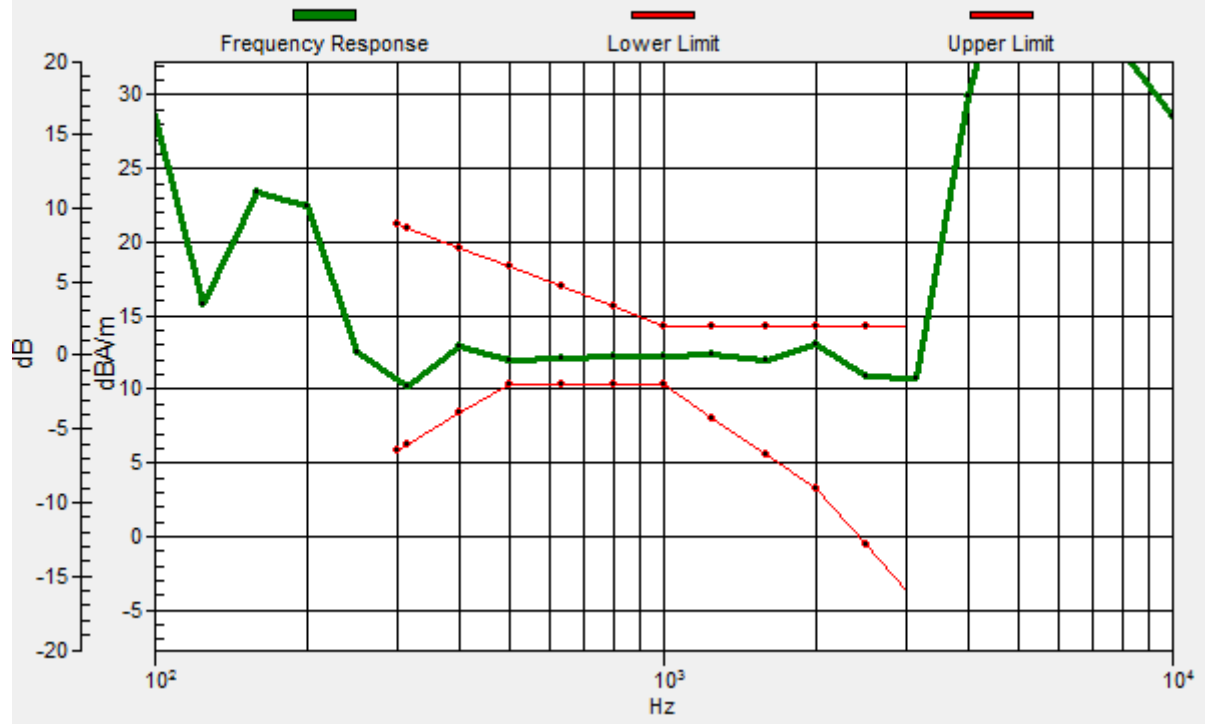


0 dB = 268.9 = 48.59 dB



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

Loc: 11, -4, 3.7 mm Diff: 1.28dB



## #06\_HAC\_T-Coil\_LTE Band 2\_20M\_QPSK\_1\_0\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

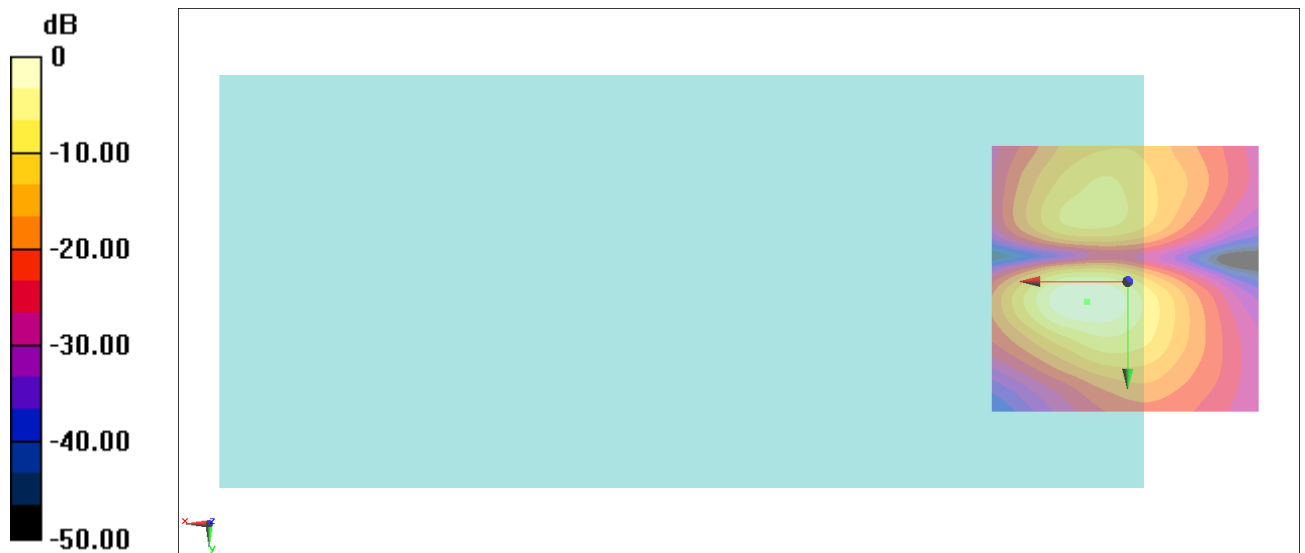
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 48.86 dB

ABM1 comp = 4.21 dBA/m

Location: 7.5, 3.7, 3.7 mm



0 dB = 277.4 = 48.86 dB

### #07\_HAC\_T-Coil\_LTE Band 5\_10M\_QPSK\_1\_0\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

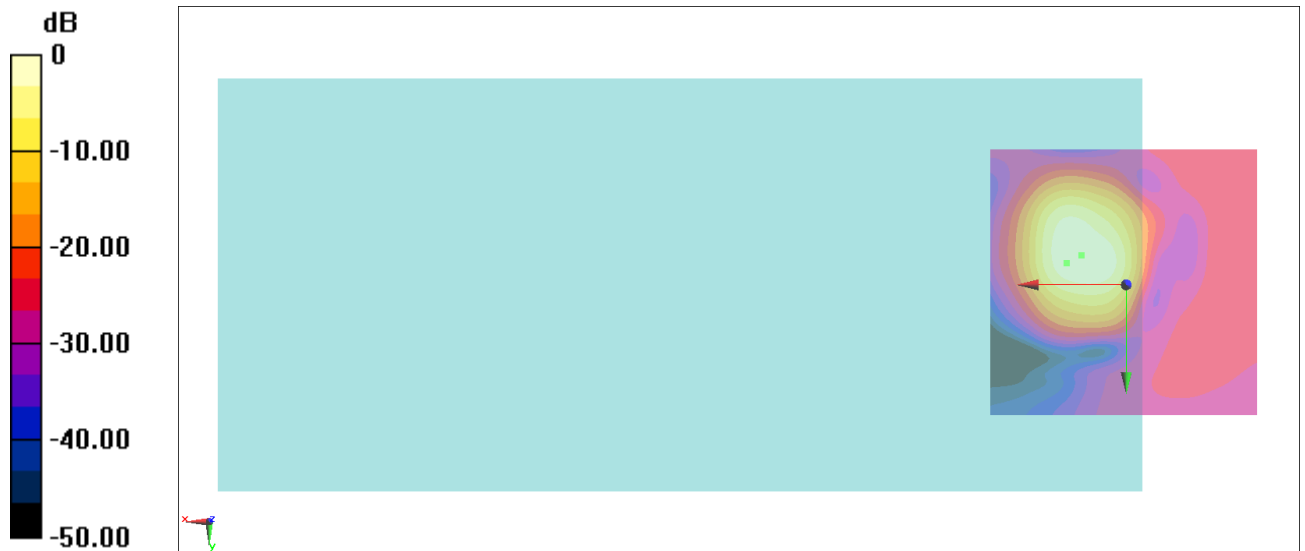
#### General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 48.62 dB

ABM1 comp = 11.29 dBA/m

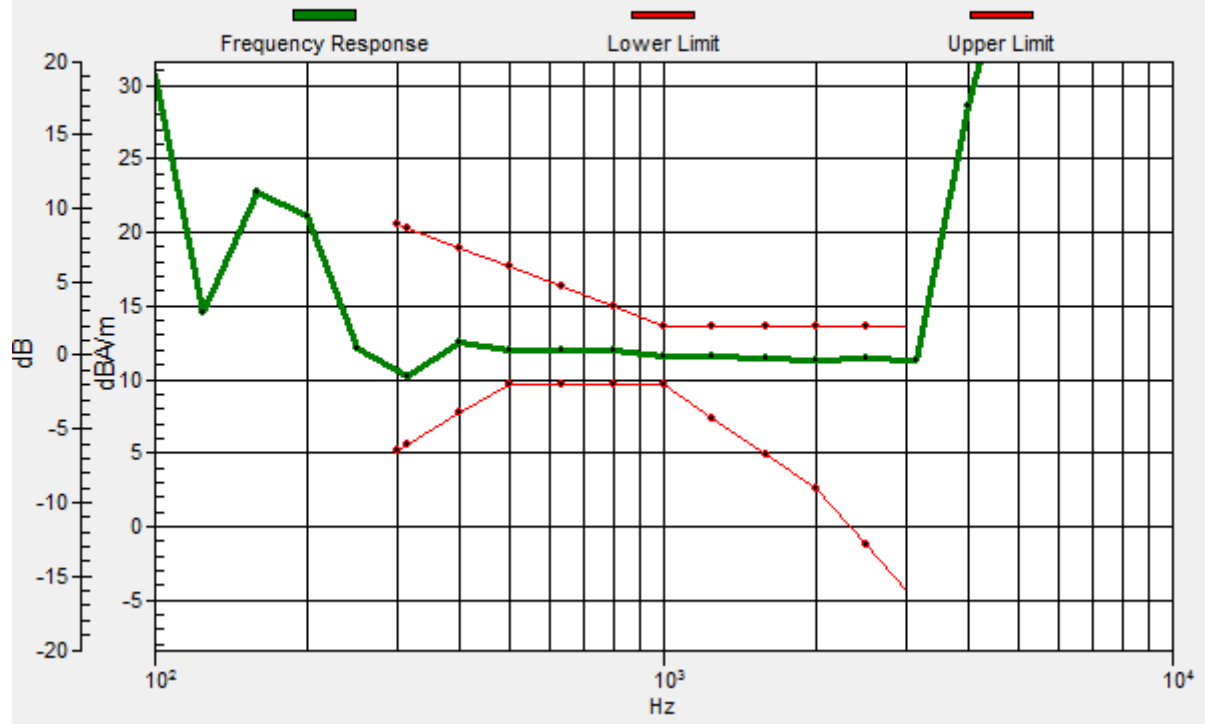
Location: 8.2, -5.4, 3.7 mm



0 dB = 269.8 = 48.62 dB

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

Loc: 11, -4, 3.7 mm Diff: 2dB



## #07\_HAC\_T-Coil\_LTE Band 5\_10M\_QPSK\_1\_0\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

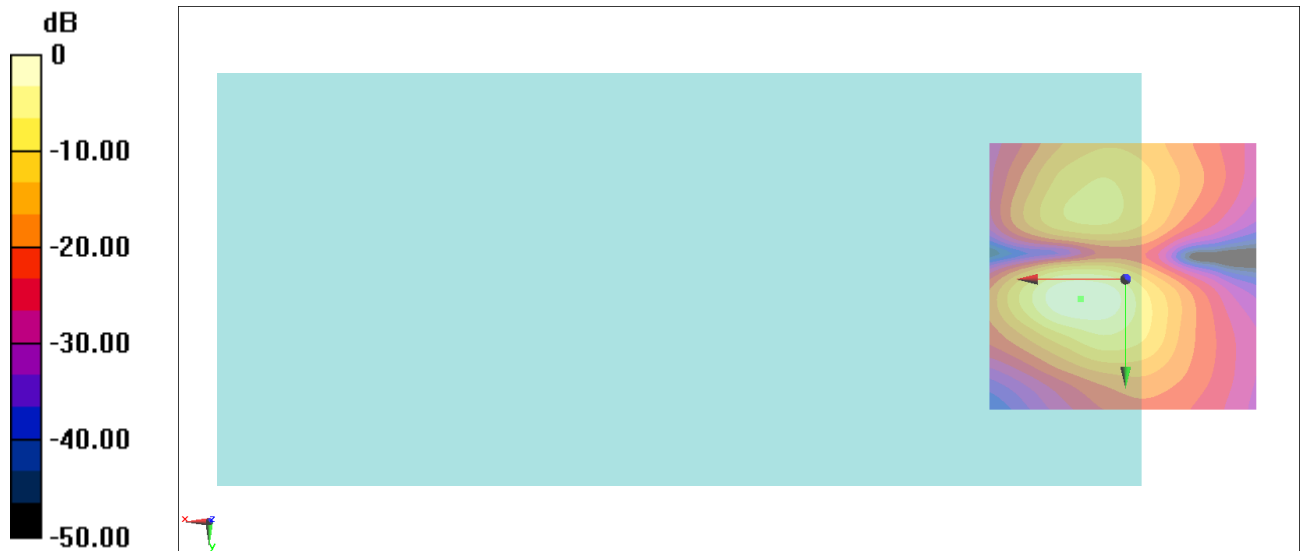
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 48.93 dB

ABM1 comp = 4.16 dBA/m

Location: 8.2, 3.7, 3.7 mm



0 dB = 279.7 = 48.93 dB

### #08\_HAC\_T-Coil\_LTE Band 12\_10M\_QPSK\_1\_0\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

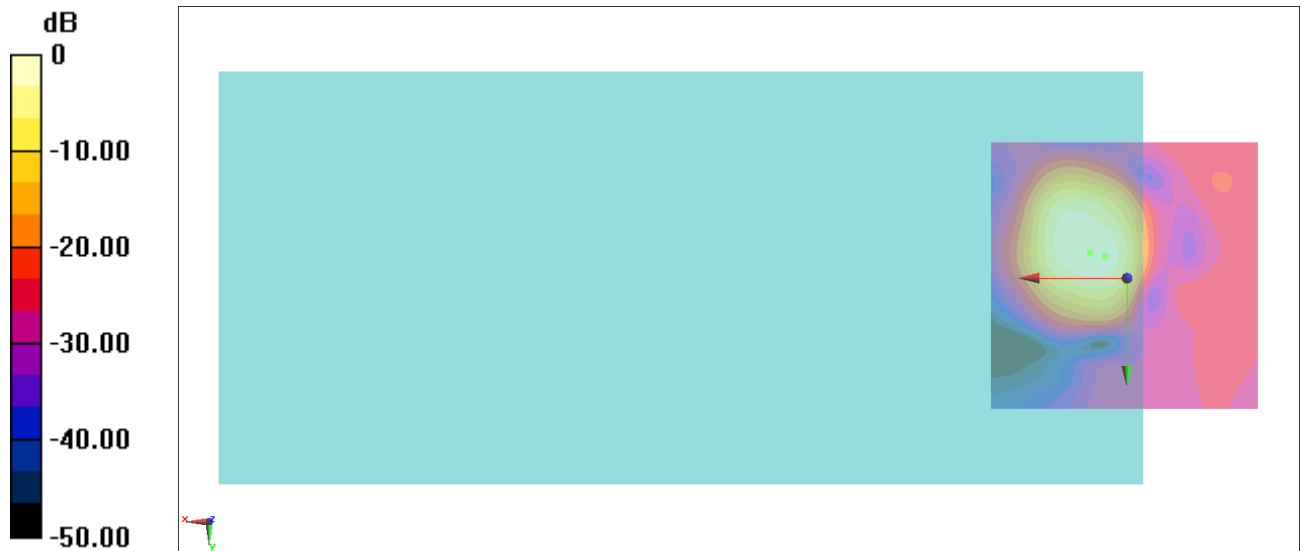
#### General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 48.13 dB

ABM1 comp = 9.52 dBA/m

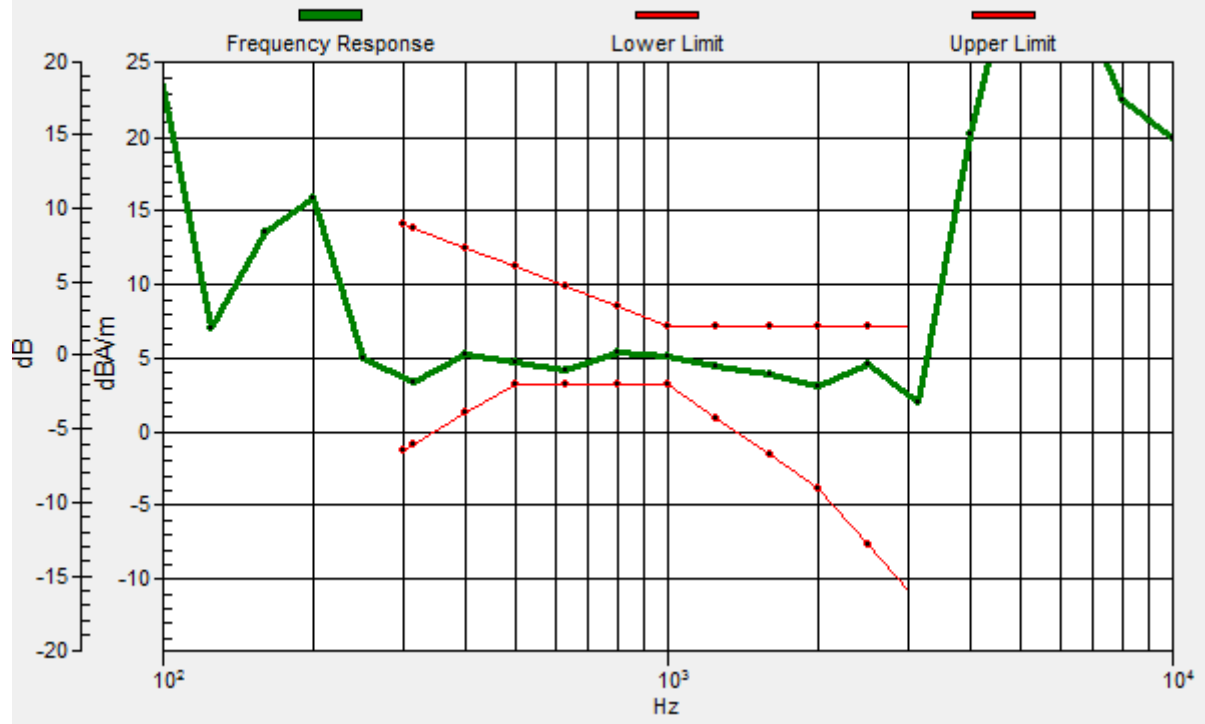
Location: 6.8, -4.7, 3.7 mm



0 dB = 255.0 = 48.13 dB

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

Loc: 4, -4, 3.7 mm Diff: 0.99dB



## #08\_HAC\_T-Coil\_LTE Band 12\_10M\_QPSK\_1\_0\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

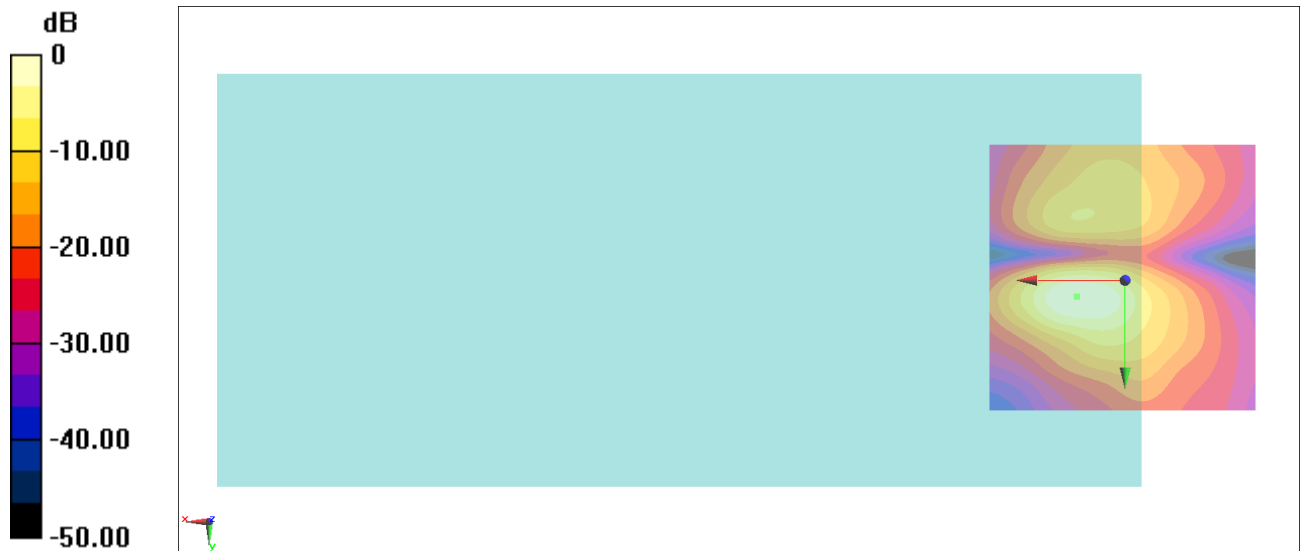
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 48.63 dB

ABM1 comp = 4.55 dBA/m

Location: 8.9, 3, 3.7 mm



0 dB = 270.2 = 48.63 dB



### #09\_HAC\_T-Coil\_LTE Band 14\_10M\_QPSK\_1\_0\_Ch23330\_Axial (Z)

Communication System: LTE; Frequency: 793 MHz

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

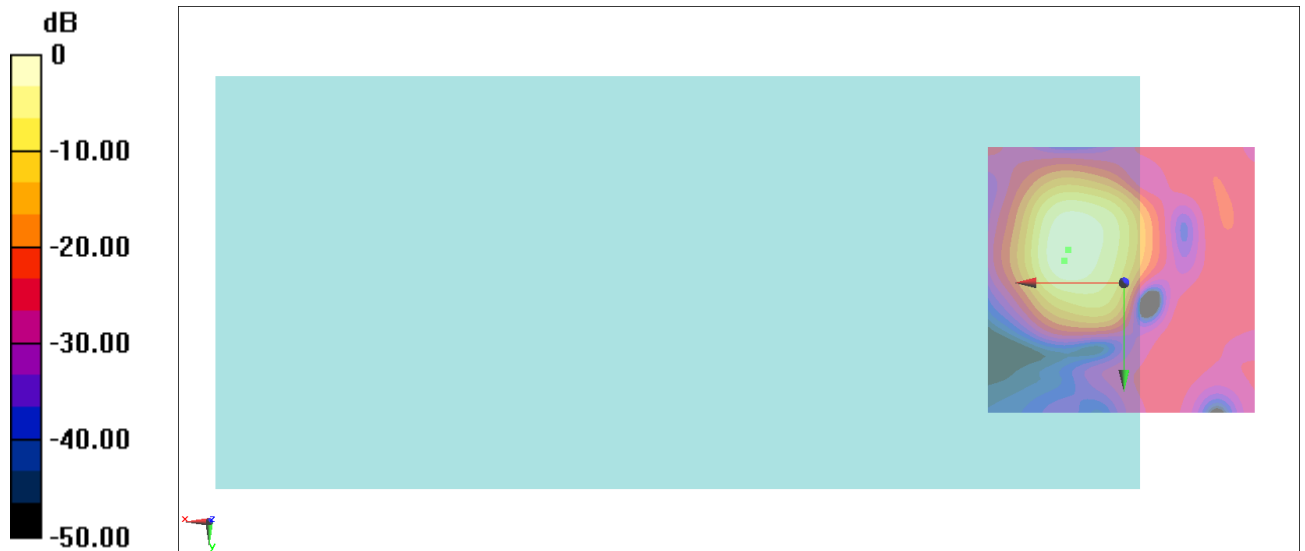
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 48.00 dB

ABM1 comp = 12.52 dBA/m

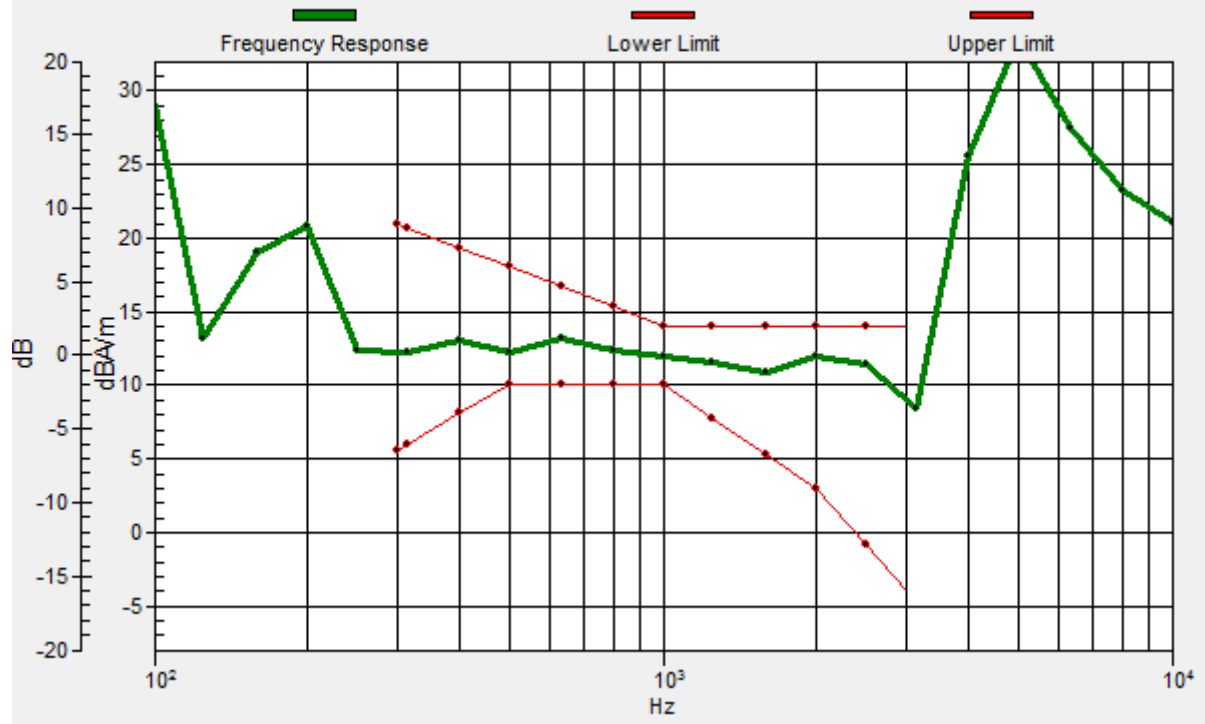
Location: 10.3, -6.1, 3.7 mm



0 dB = 251.3 = 48.00 dB

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

Loc: 11, -4, 3.7 mm Diff: 2dB



## #09\_HAC\_T-Coil\_LTE Band 14\_10M\_QPSK\_1\_0\_Ch23330\_Transversal (Y)

Communication System: LTE; Frequency: 793 MHz

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

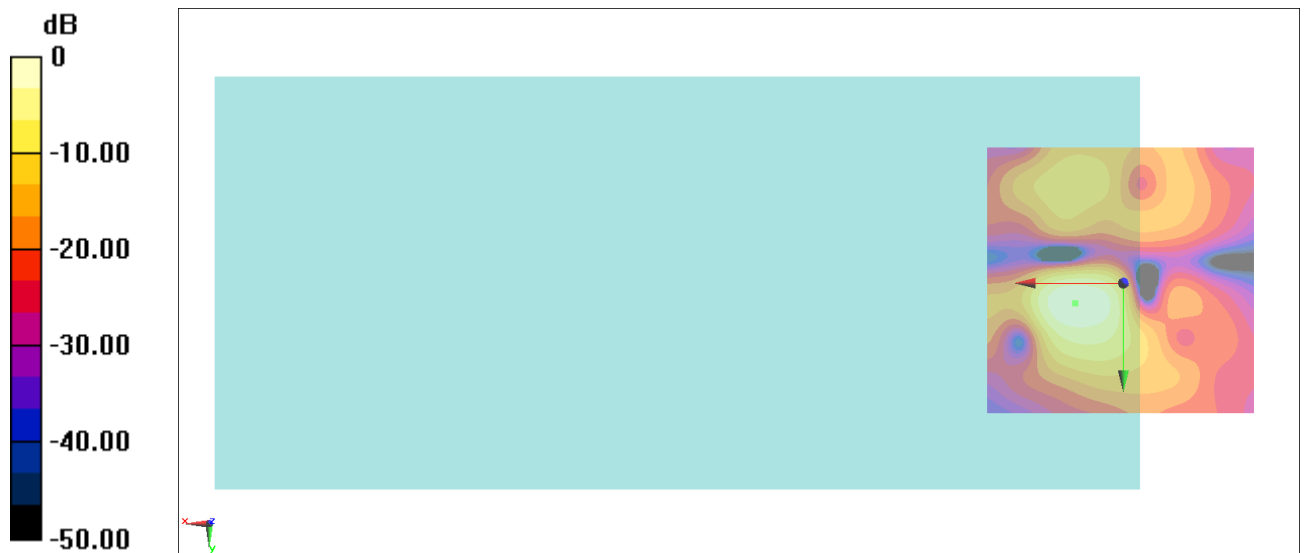
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 45.72 dB

ABM1 comp = 4.92 dBA/m

Location: 8.9, 3.7, 3.7 mm



0 dB = 193.2 = 45.72 dB

### #10\_HAC\_T-Coil\_LTE Band 30\_10M\_QPSK\_1\_0\_Ch27710\_Axial (Z)

Communication System: LTE; Frequency: 2310 MHz

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

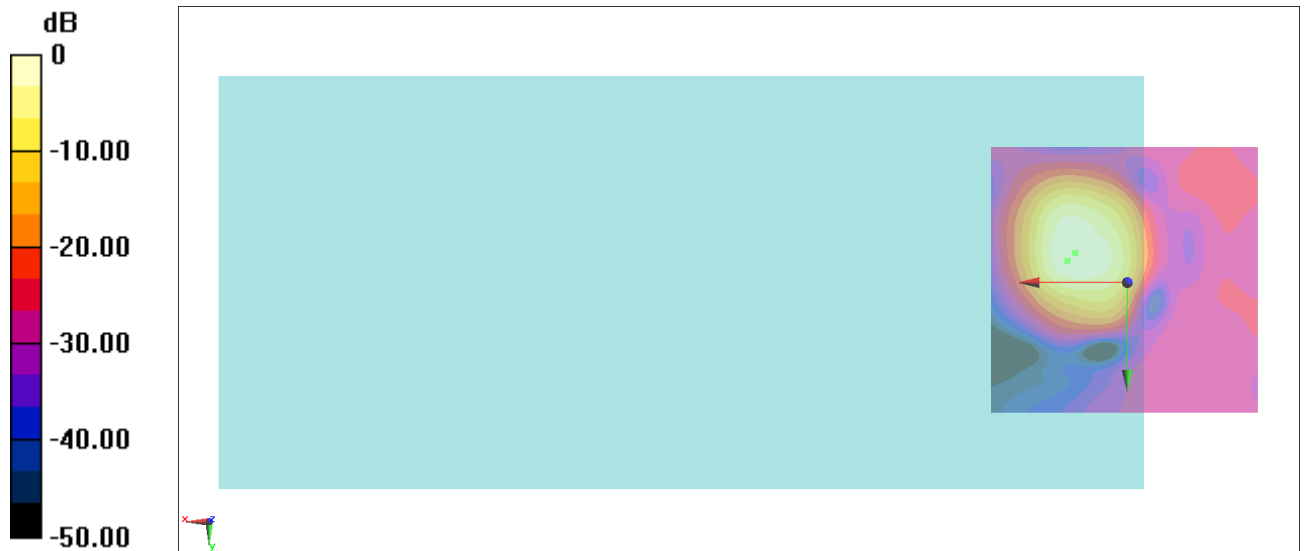
#### General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 48.64 dB

ABM1 comp = 12.17 dBA/m

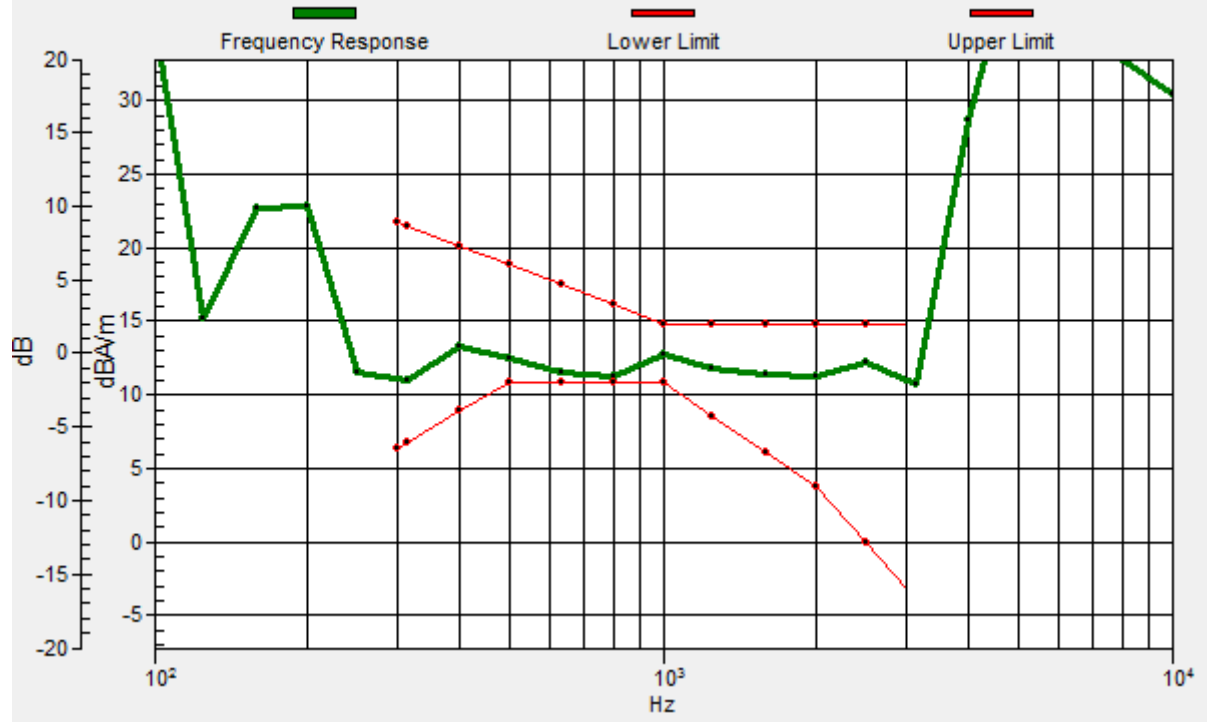
Location: 9.6, -5.4, 3.7 mm



0 dB = 270.3 = 48.64 dB

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

Loc: 11, -4, 3.7 mm Diff: 0.4dB



## #10\_HAC\_T-Coil\_LTE Band 30\_10M\_QPSK\_1\_0\_Ch27710\_Transversal (Y)

Communication System: LTE; Frequency: 2310 MHz

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

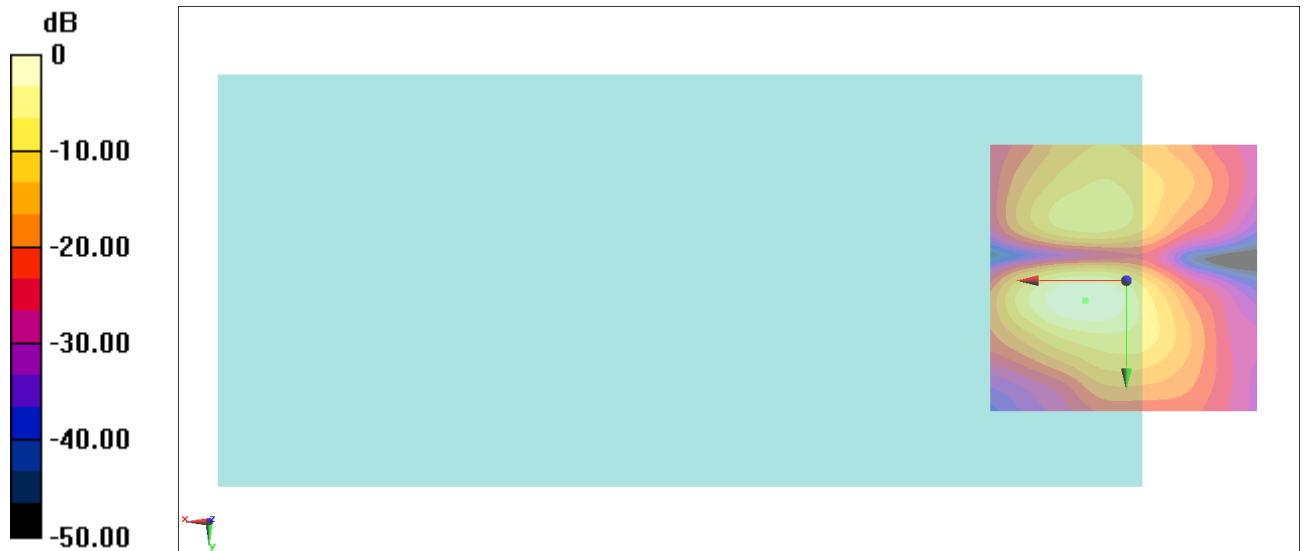
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 46.95 dB

ABM1 comp = 2.19 dBA/m

Location: 7.5, 3.7, 3.7 mm



0 dB = 222.6 = 46.95 dB

### #11\_HAC\_T-Coil\_LTE Band 66\_20M\_QPSK\_1\_0\_Ch132322\_Axial (Z)

Communication System: LTE; Frequency: 1745 MHz

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

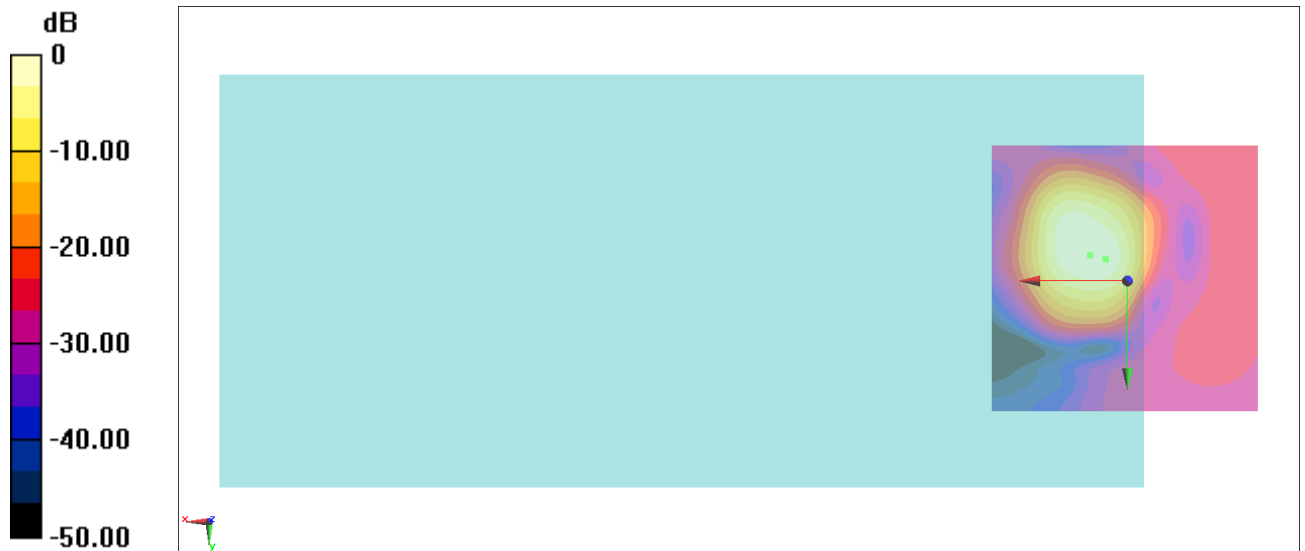
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 47.75 dB

ABM1 comp = 9.87 dBA/m

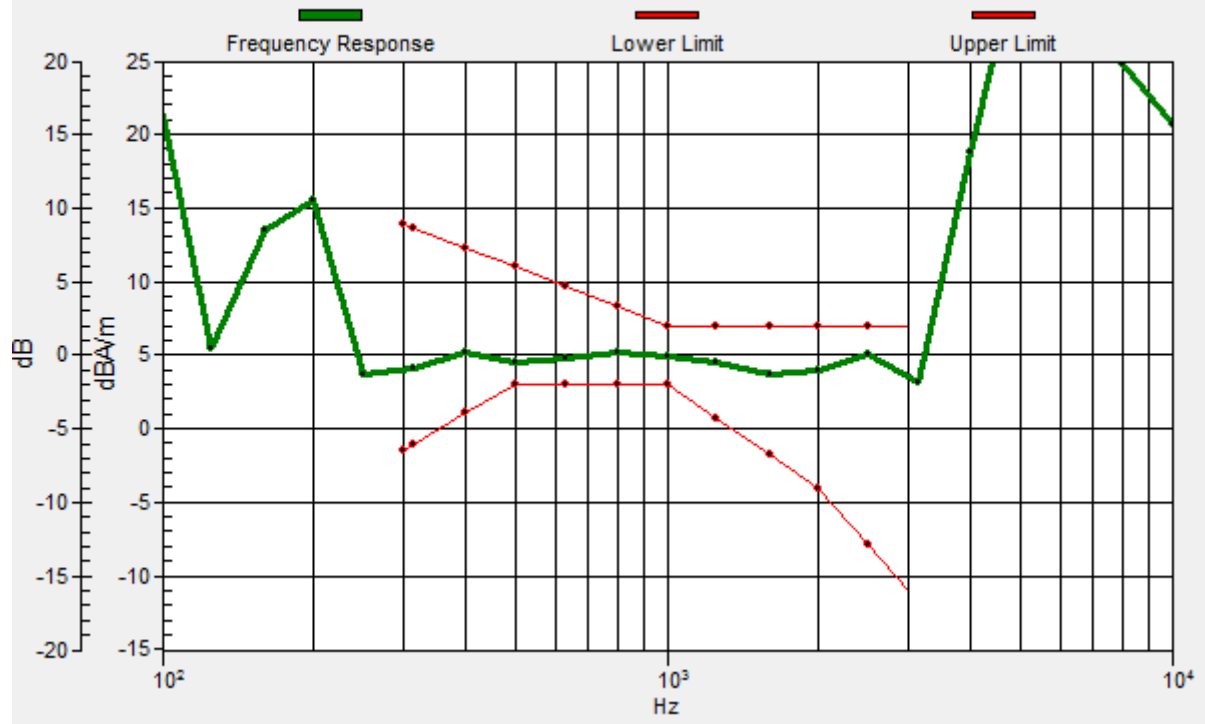
Location: 6.8, -4.7, 3.7 mm



0 dB = 244.0 = 47.75 dB

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

Loc: 4, -4, 3.7 mm Diff: 1.53dB





## #11\_HAC\_T-Coil\_LTE Band 66\_20M\_QPSK\_1\_0\_Ch132322\_Transversal (Y)

Communication System: LTE; Frequency: 1745 MHz

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

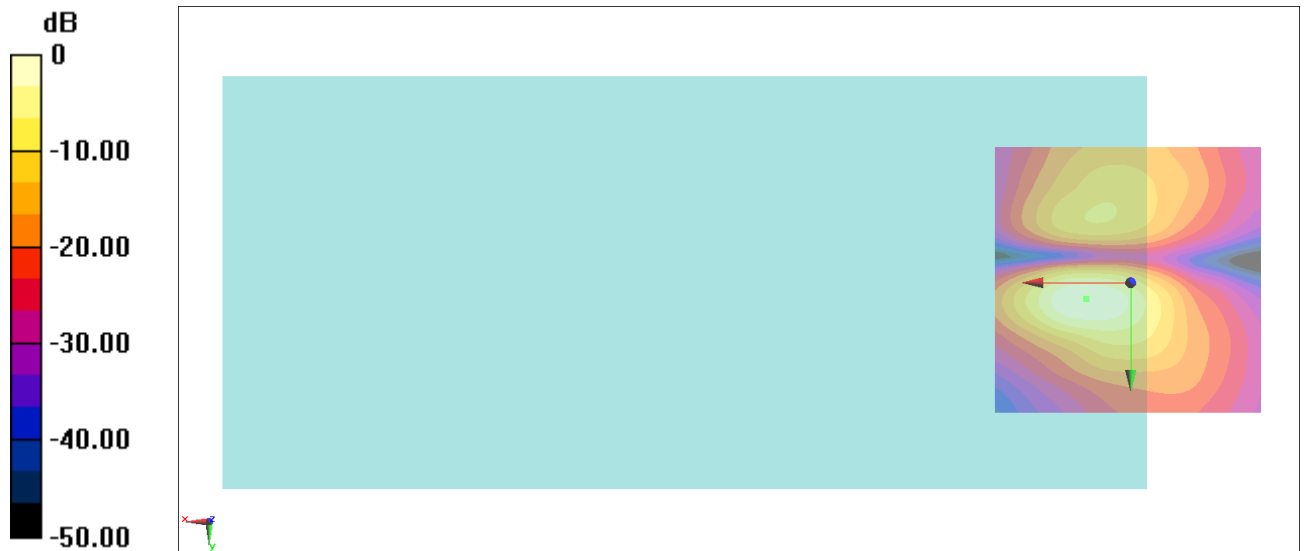
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 48.33 dB

ABM1 comp = 4.69 dBA/m

Location: 8.2, 3, 3.7 mm



0 dB = 261.0 = 48.33 dB

## #12\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

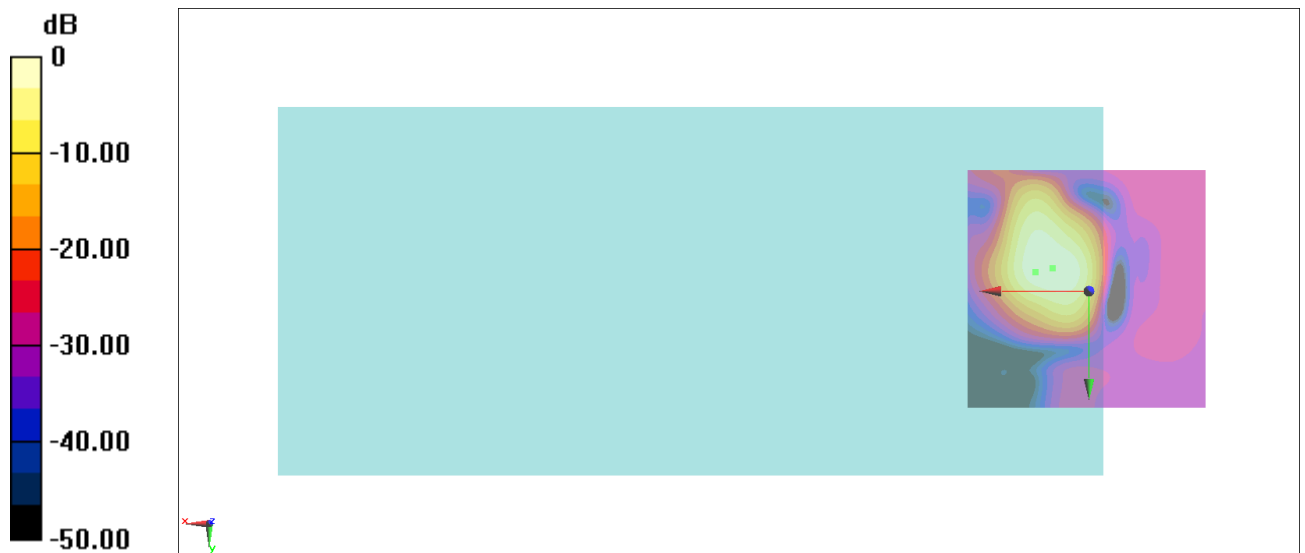
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 43.43 dB

ABM1 comp = 9.36 dBA/m

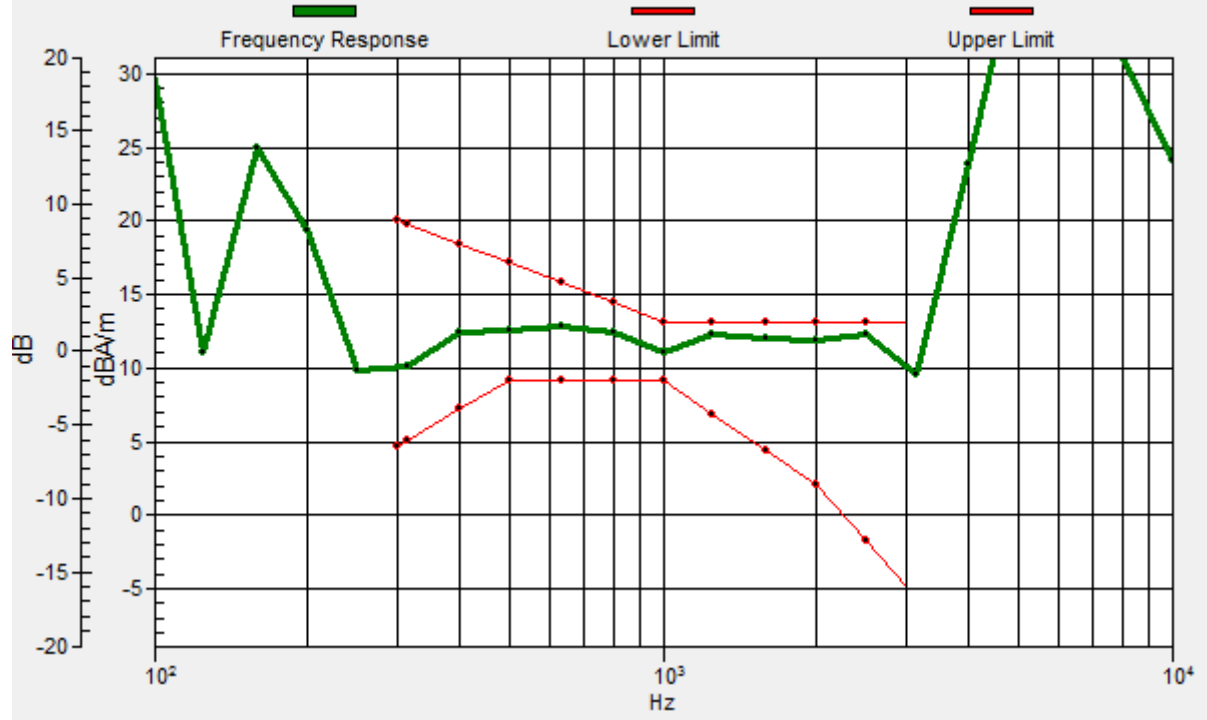
Location: 7.5, -4.7, 3.7 mm



0 dB = 148.4 = 43.43 dB

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

Loc: 11, -4, 3.7 mm Diff: 0.79dB



## #12\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

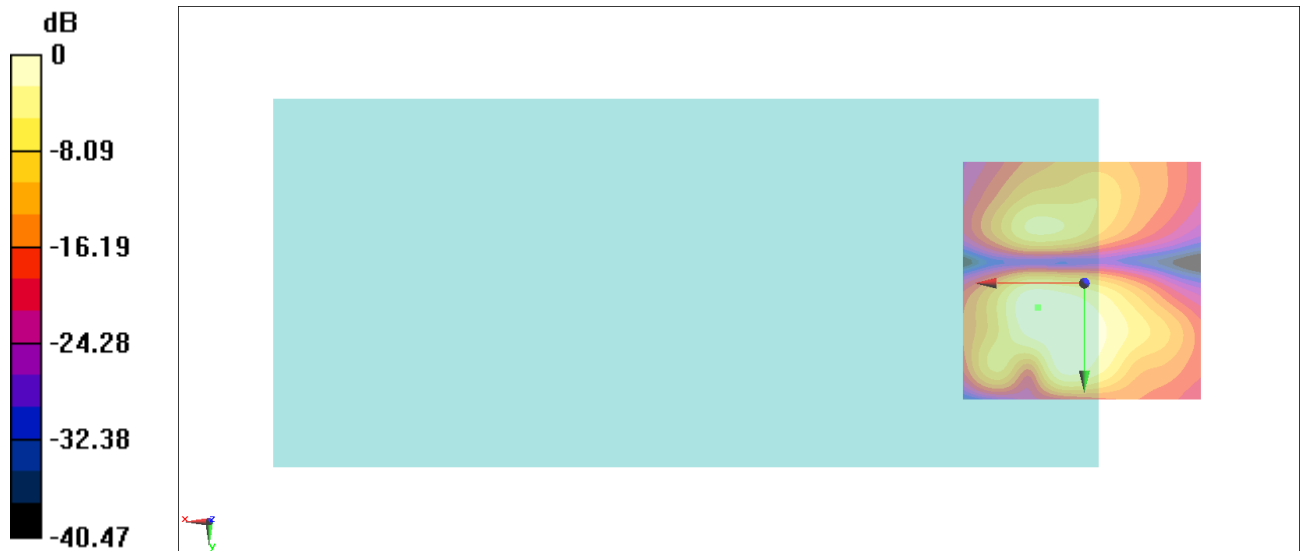
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 37.33 dB

ABM1 comp = 3.82 dBA/m

Location: 9.6, 5.1, 3.7 mm



0 dB = 73.56 = 37.33 dB

### #13\_HAC\_T-Coil\_WLAN5GHz\_802.11a 6Mbps\_Ch40\_Axial (Z)

Communication System: 802.11a; Frequency: 5200 MHz

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

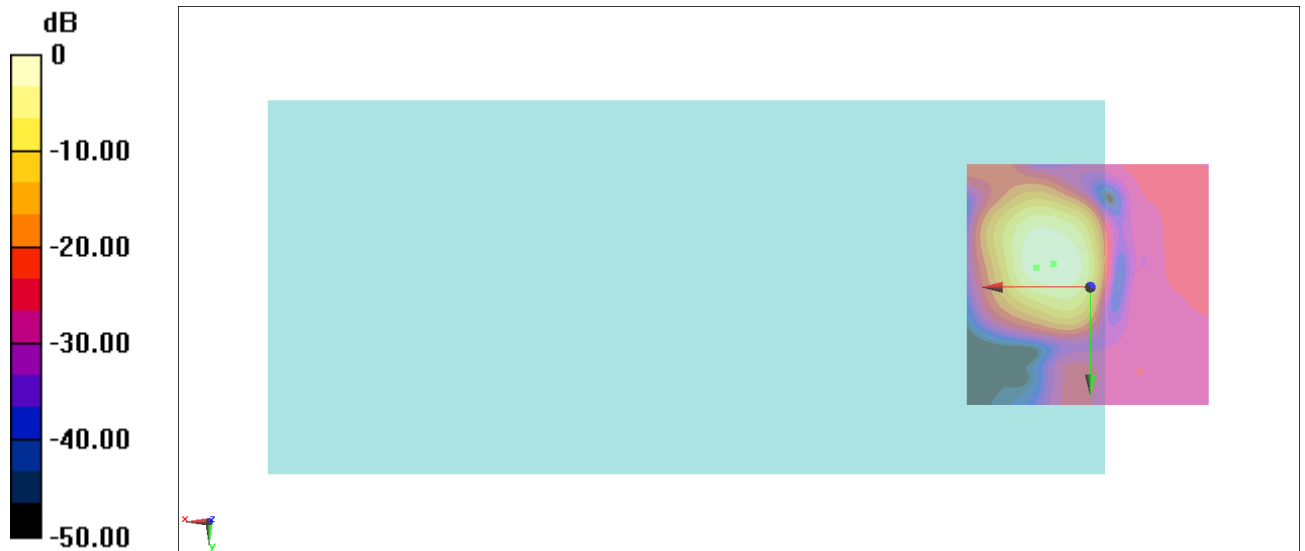
#### General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 44.78 dB

ABM1 comp = 9.62 dBA/m

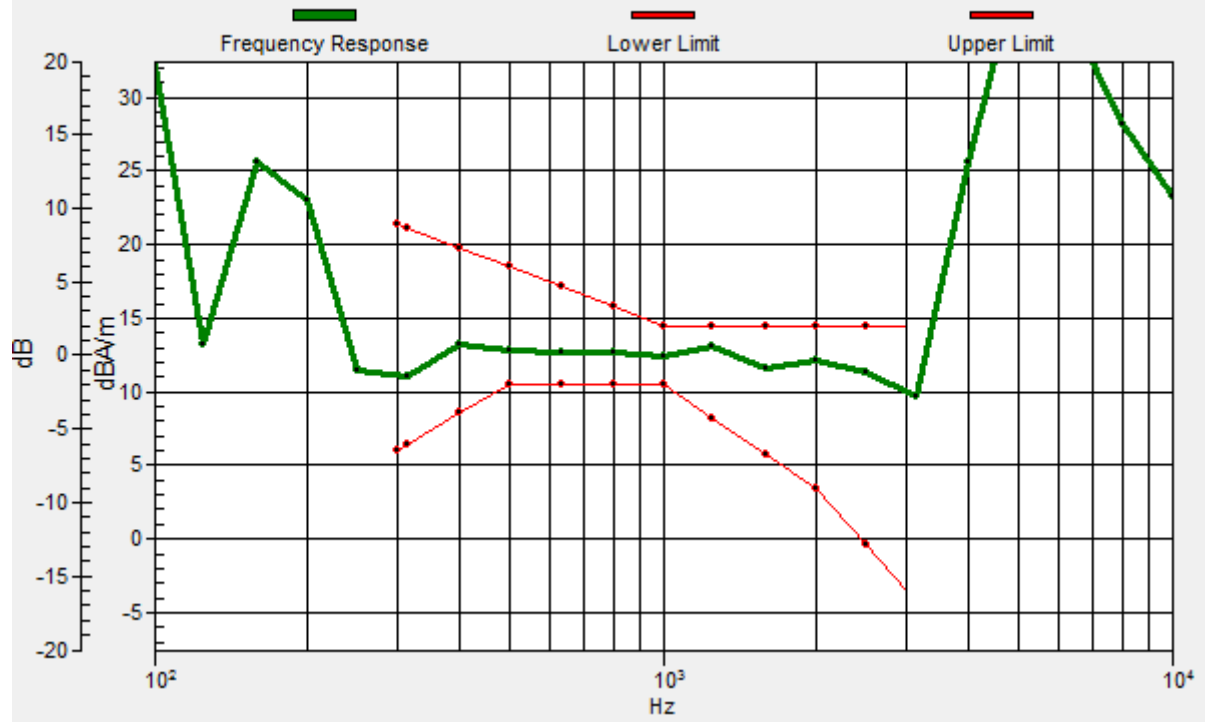
Location: 7.5, -4.7, 3.7 mm



0 dB = 173.4 = 44.78 dB

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

Loc: 11, -4, 3.7 mm Diff: 1.42dB



### #13\_HAC\_T-Coil\_WLAN5GHz\_802.11a\_6Mbps\_Ch40\_Transversal (Y)

Communication System: 802.11a; Frequency: 5200 MHz

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

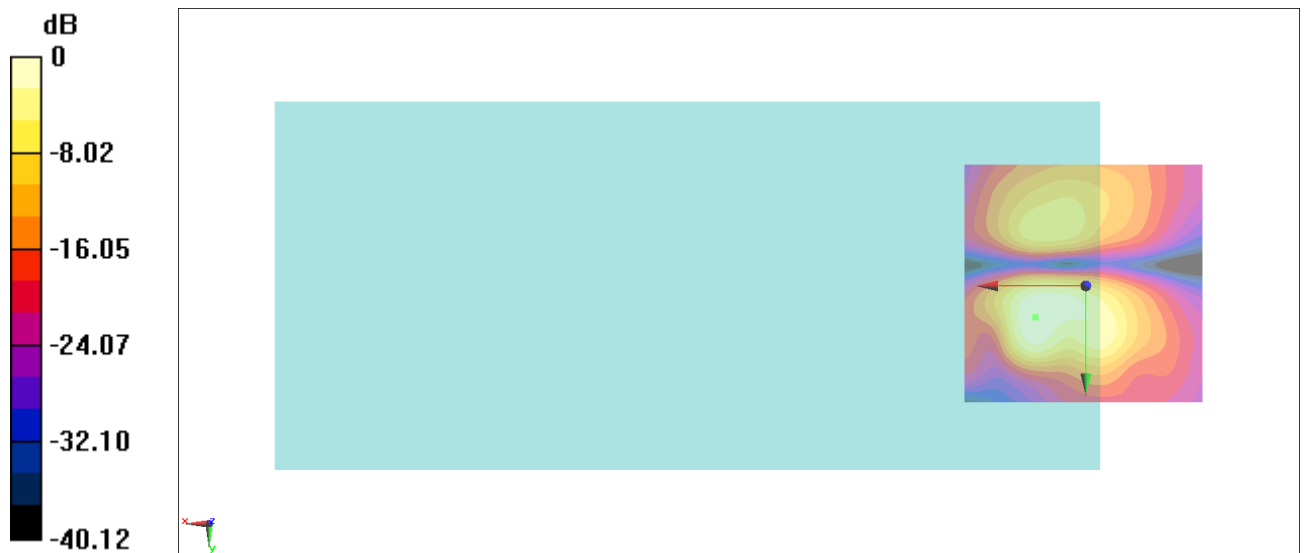
#### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 42.33 dB

ABM1 comp = 3.23 dBA/m

Location: 10.3, 6.5, 3.7 mm



0 dB = 130.7 = 42.33 dB

### #14\_HAC\_T-Coil\_WLAN5GHz\_802.11a 6Mbps\_Ch60\_Axial (Z)

Communication System: 802.11a; Frequency: 5300 MHz

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

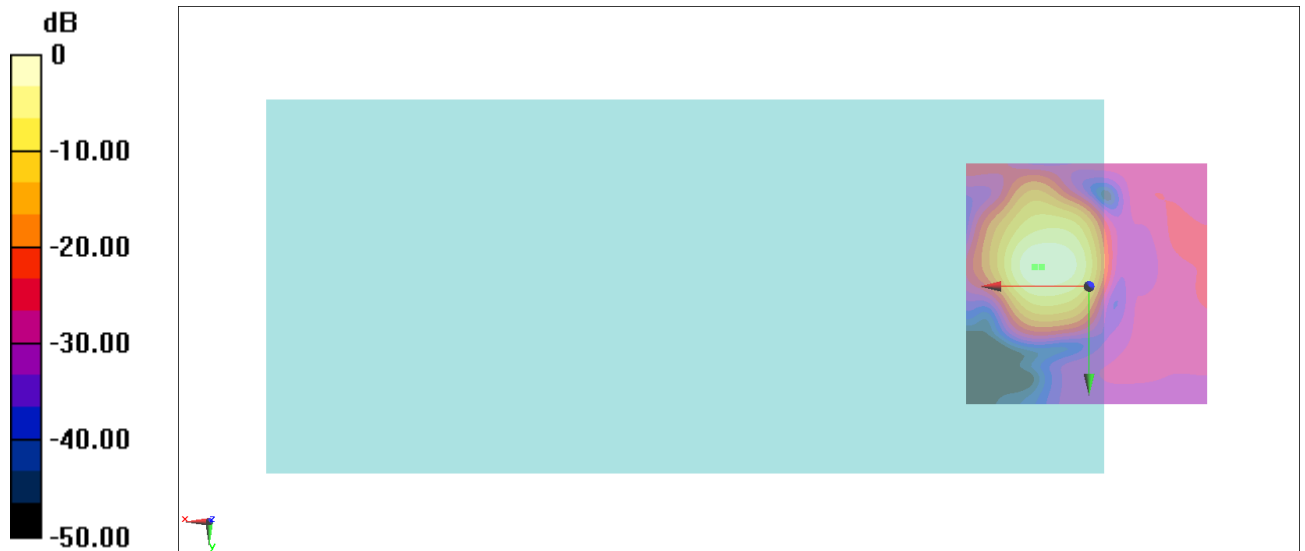
#### General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 47.21 dB

ABM1 comp = 11.75 dBA/m

Location: 9.6, -4, 3.7 mm

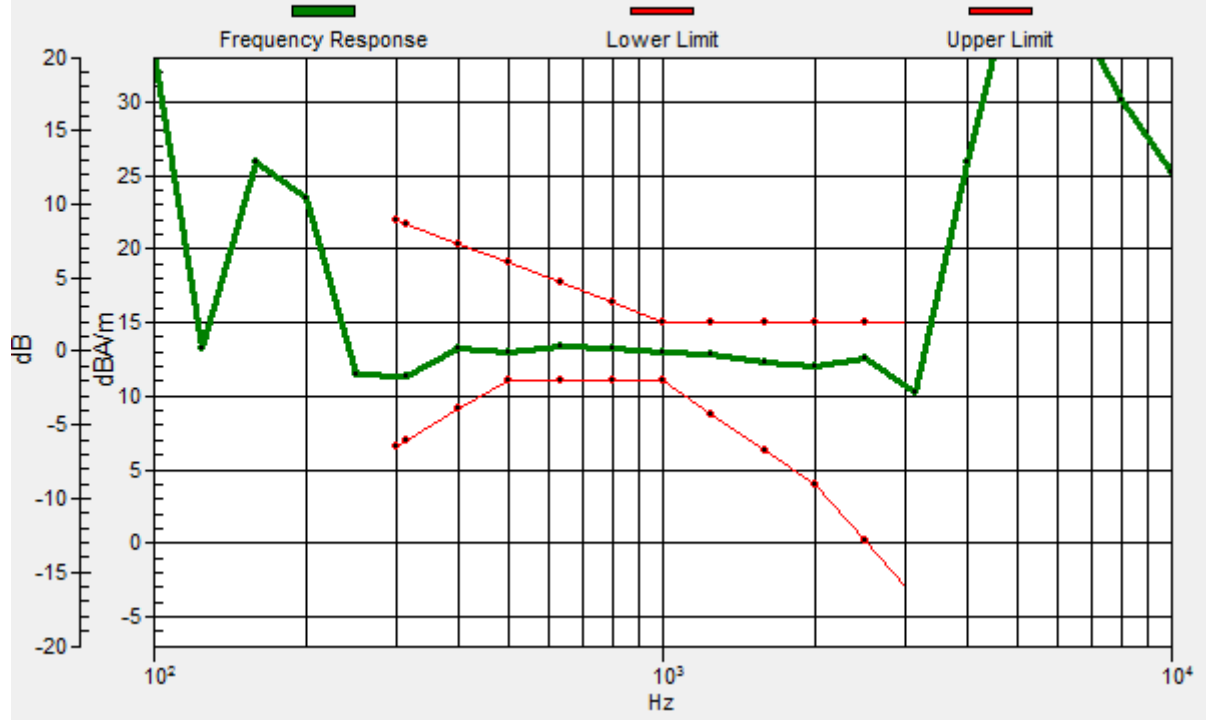


0 dB = 229.3 = 47.21 dB



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

Loc: 11, -4, 3.7 mm Diff: 1.93dB



## #14\_HAC\_T-Coil\_WLAN5GHz\_802.11a\_6Mbps\_Ch60\_Transversal (Y)

Communication System: 802.11a; Frequency: 5300 MHz

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

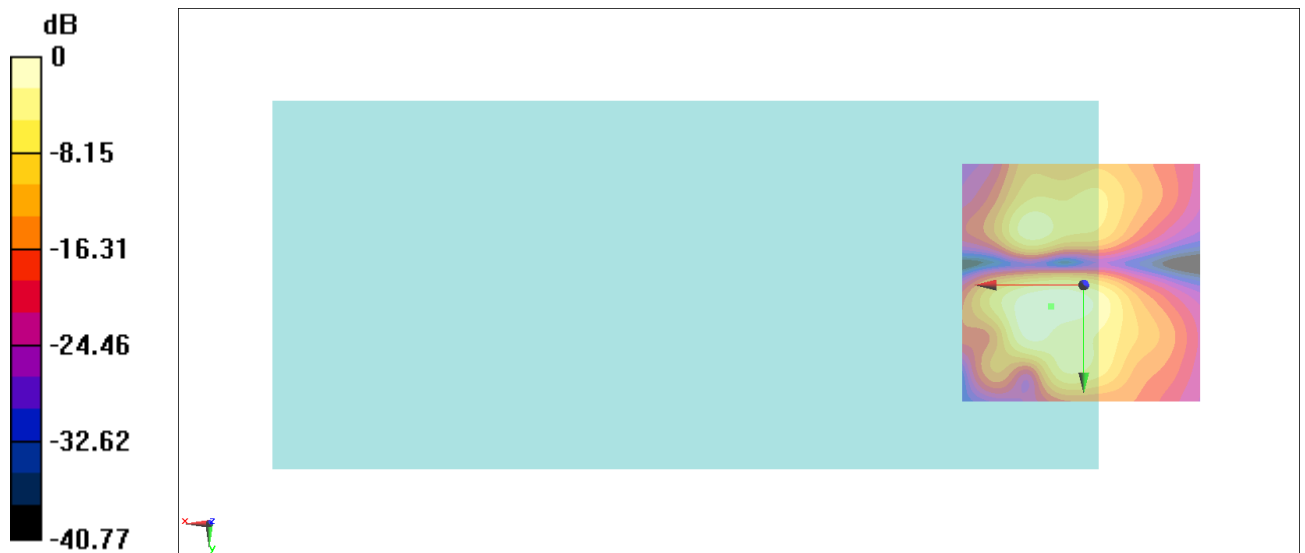
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 41.19 dB

ABM1 comp = 1.70 dBA/m

Location: 6.8, 4.4, 3.7 mm



0 dB = 114.6 = 41.18 dB

### #15\_HAC\_T-Coil\_WLAN5GHz\_802.11a 6Mbps\_Ch124\_Axial (Z)

Communication System: 802.11a; Frequency: 5620 MHz

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

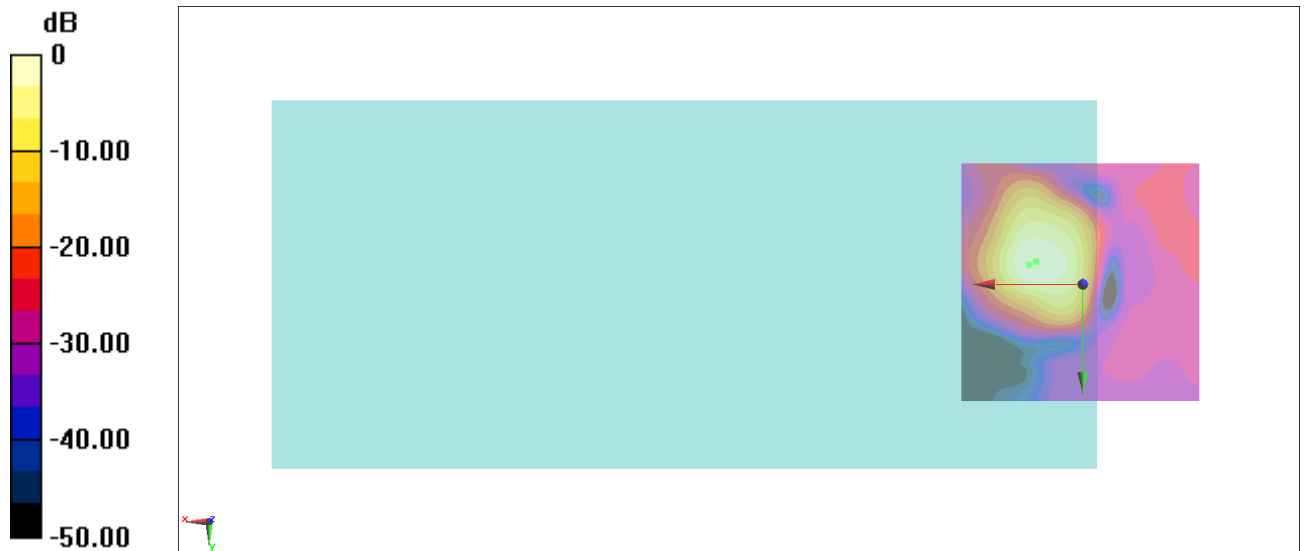
#### General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 46.85 dB

ABM1 comp = 11.43 dBA/m

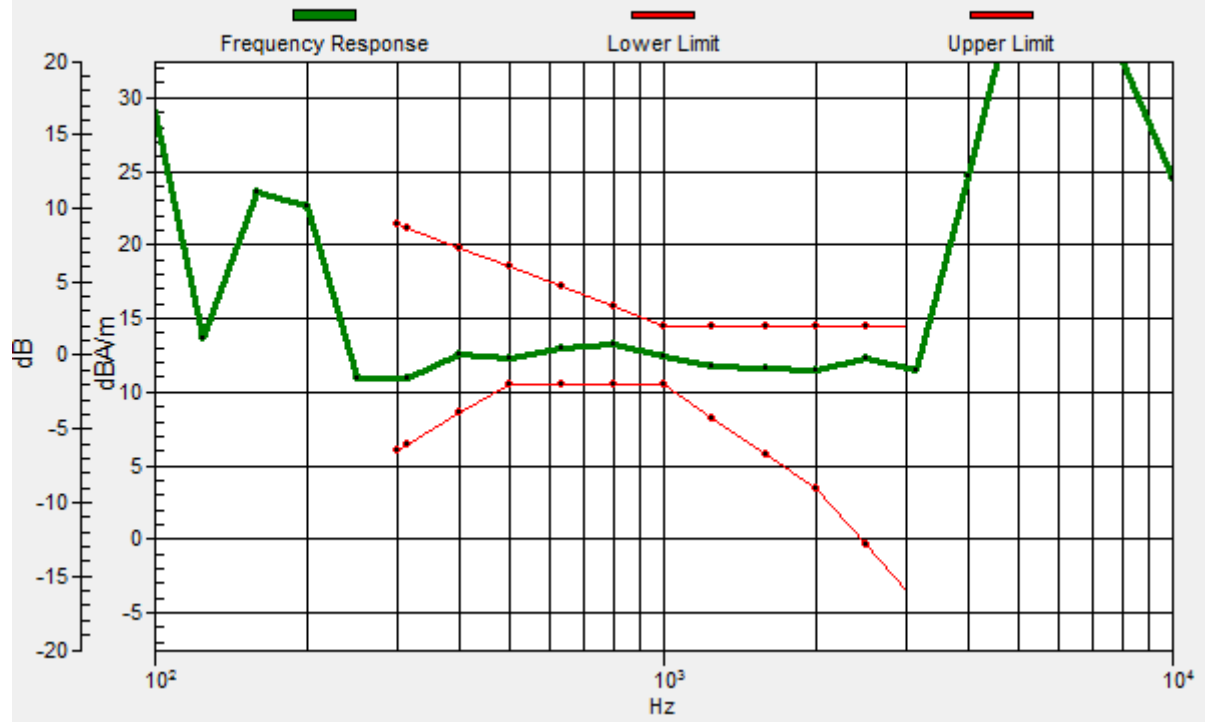
Location: 9.6, -4.7, 3.7 mm



0 dB = 220.0 = 46.85 dB

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

Loc: 11, -4, 3.7 mm Diff: 1.82dB



## #15\_HAC\_T-Coil\_WLAN5GHz\_802.11a\_6Mbps\_Ch124\_Transversal (Y)

Communication System: 802.11a; Frequency: 5620 MHz

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

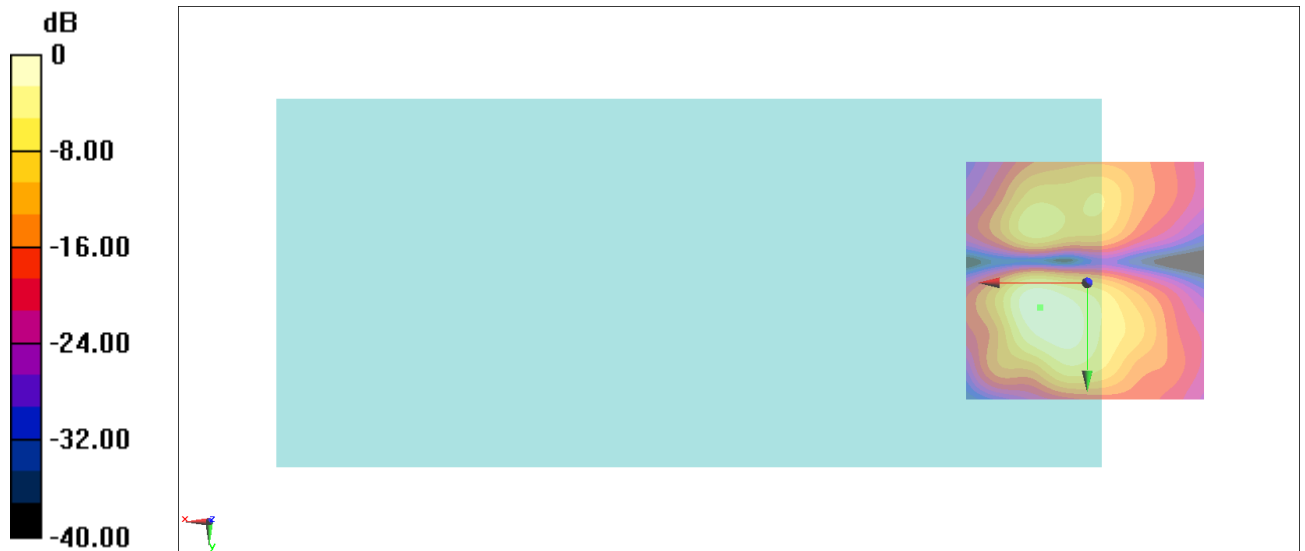
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 42.24 dB

ABM1 comp = 3.63 dBA/m

Location: 9.6, 5.1, 3.7 mm



0 dB = 129.4 = 42.24 dB

## #16\_HAC\_T-Coil\_WLAN5GHz\_802.11a 6Mbps\_Ch157\_Axial (Z)

Communication System: 802.11a; Frequency: 5785 MHz

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

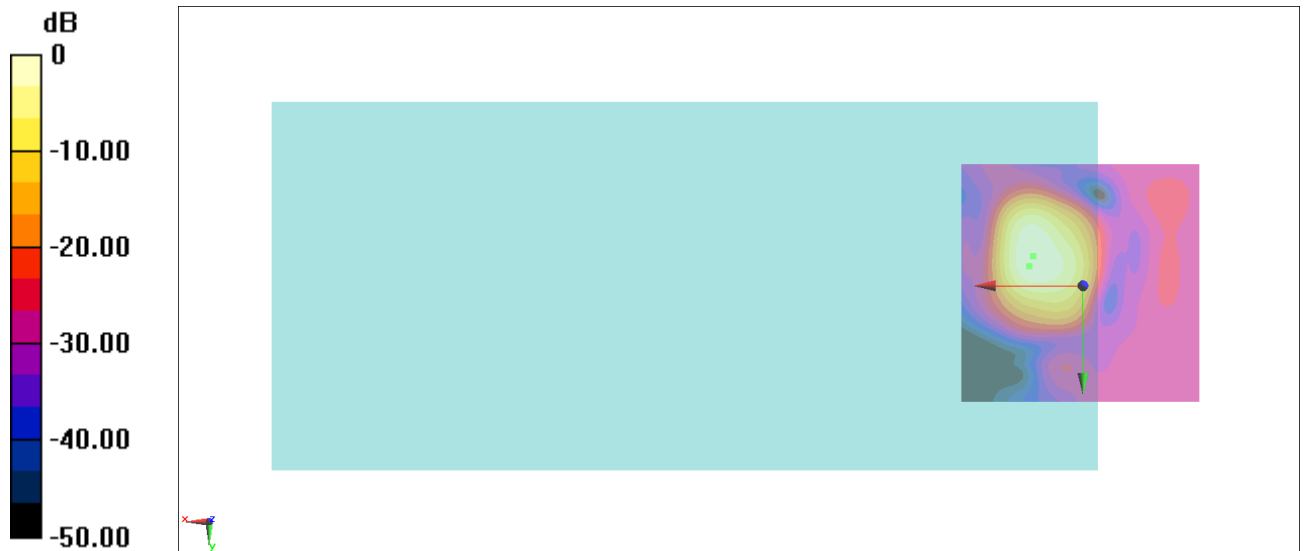
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 46.86 dB

ABM1 comp = 12.00 dBA/m

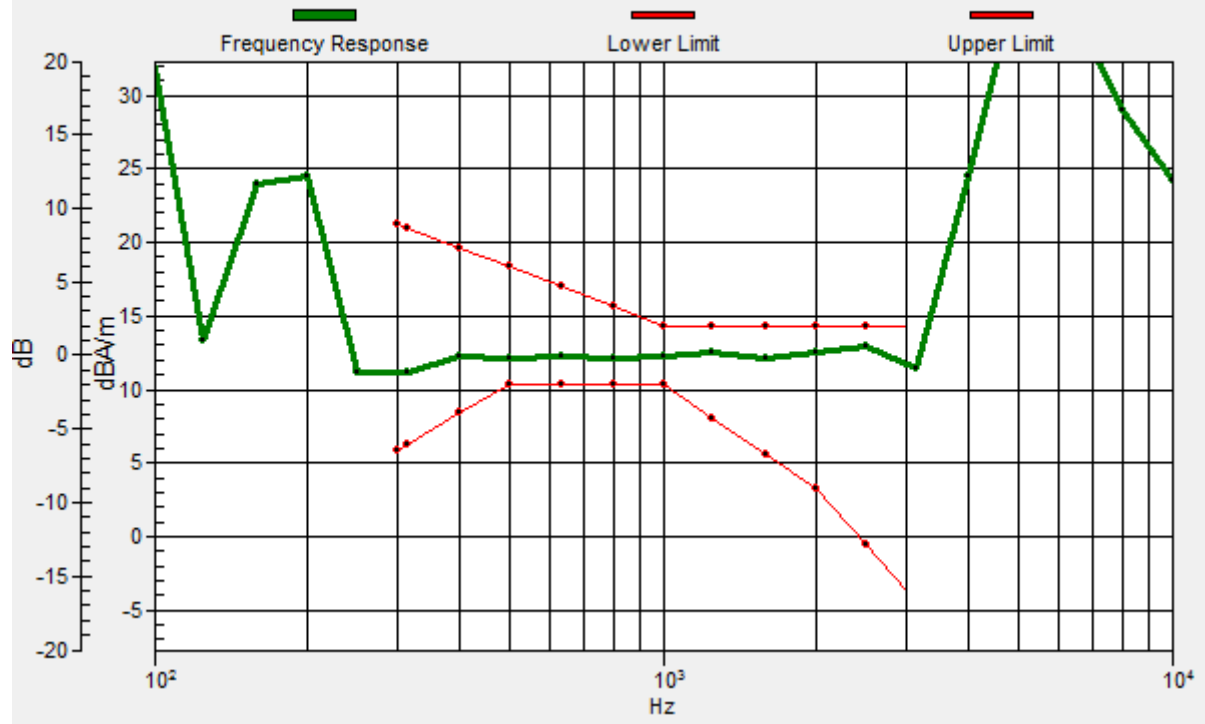
Location: 10.3, -6.1, 3.7 mm



0 dB = 220.3 = 46.86 dB

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

Loc: 11, -4, 3.7 mm Diff: 1.33dB



## #16\_HAC\_T-Coil\_WLAN5GHz\_802.11a 6Mbps\_Ch157\_Transversal (Y)

Communication System: 802.11a; Frequency: 5785 MHz

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

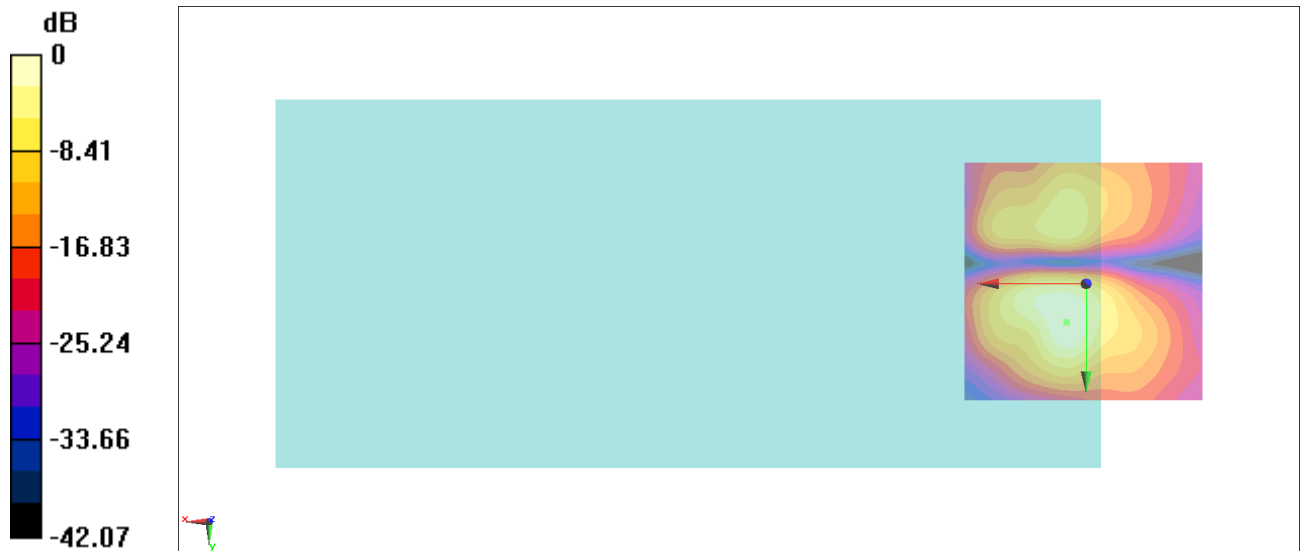
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 42.68 dB

ABM1 comp = -1.79 dBA/m

Location: 4, 7.9, 3.7 mm



0 dB = 136.2 = 42.68 dB



### #17\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

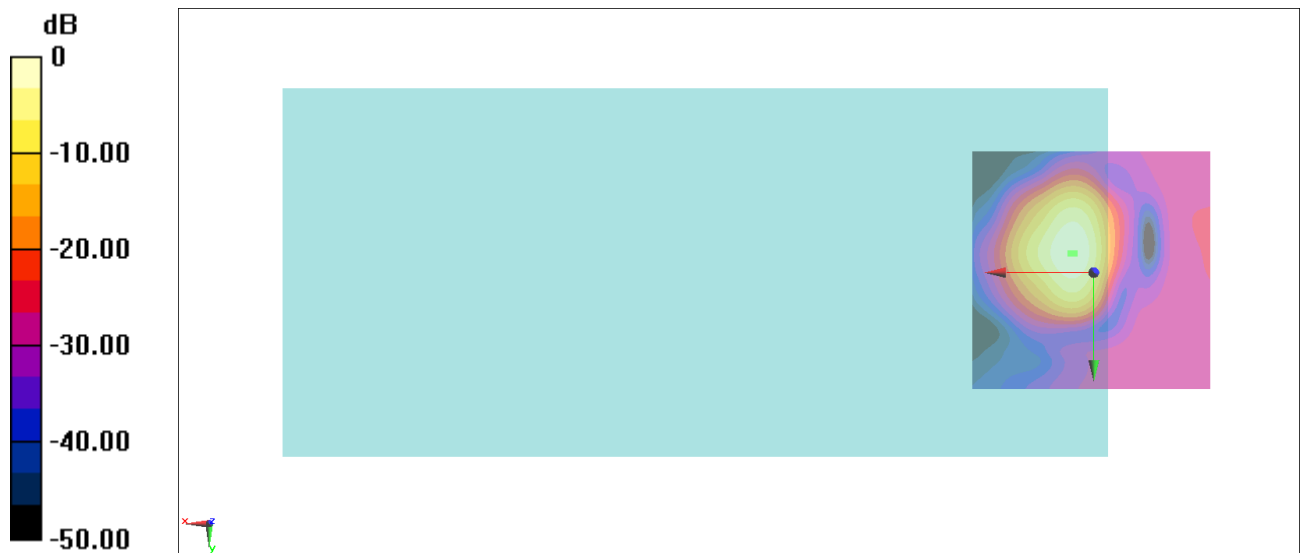
#### General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 47.65 dB

ABM1 comp = 8.71 dBA/m

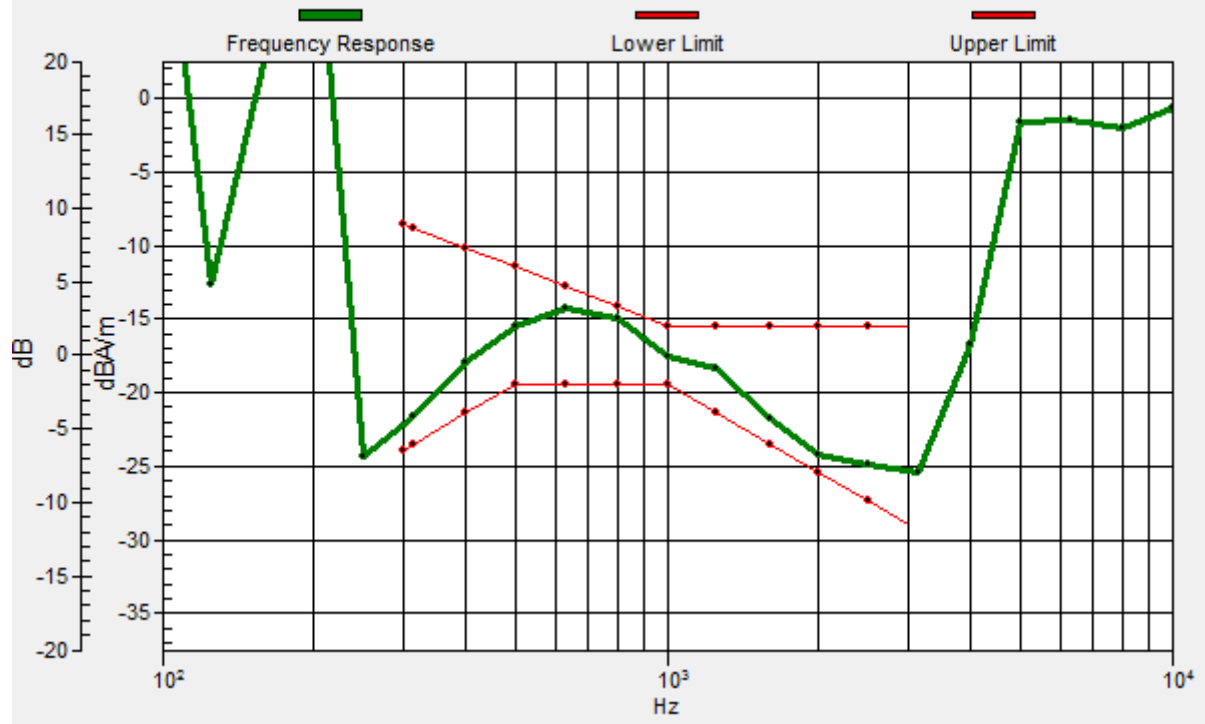
Location: 4.7, -4, 3.7 mm



0 dB = 241.3 = 47.65 dB

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

Loc: 4, -4, 3.7 mm Diff: 0.72dB



## #17\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

### 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 = 36.97 dB

ABM1 comp = 1.70 dBA/m

Location: 3.3, -14.5, 3.7 mm



0 dB = 70.54 = 36.97 dB

## #18\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

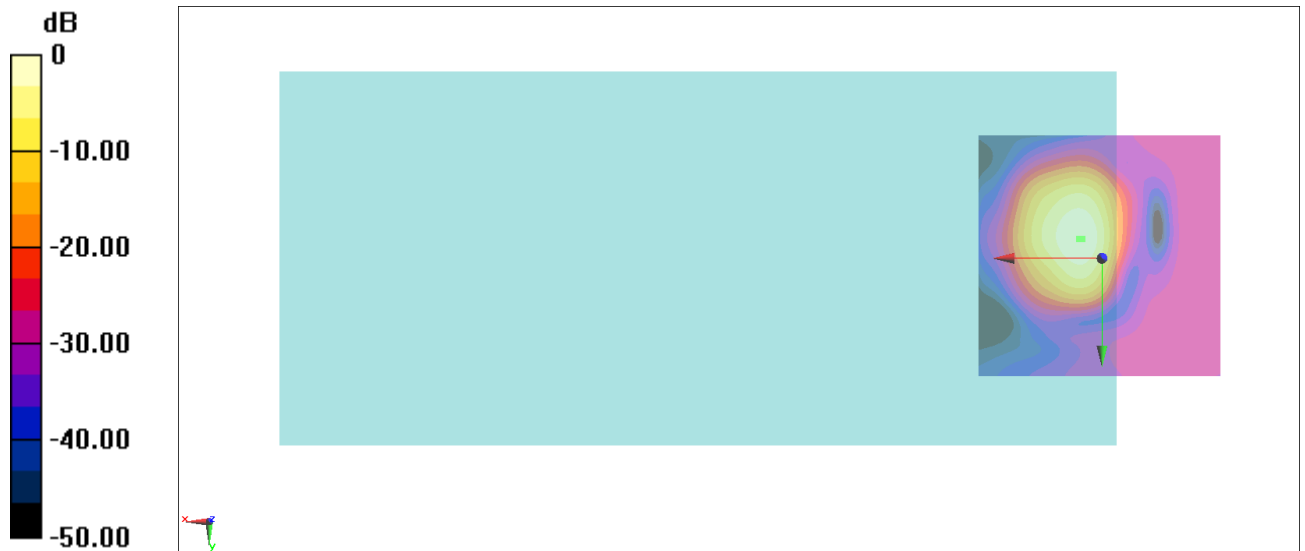
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 48.65 dB

ABM1 comp = 8.45 dBA/m

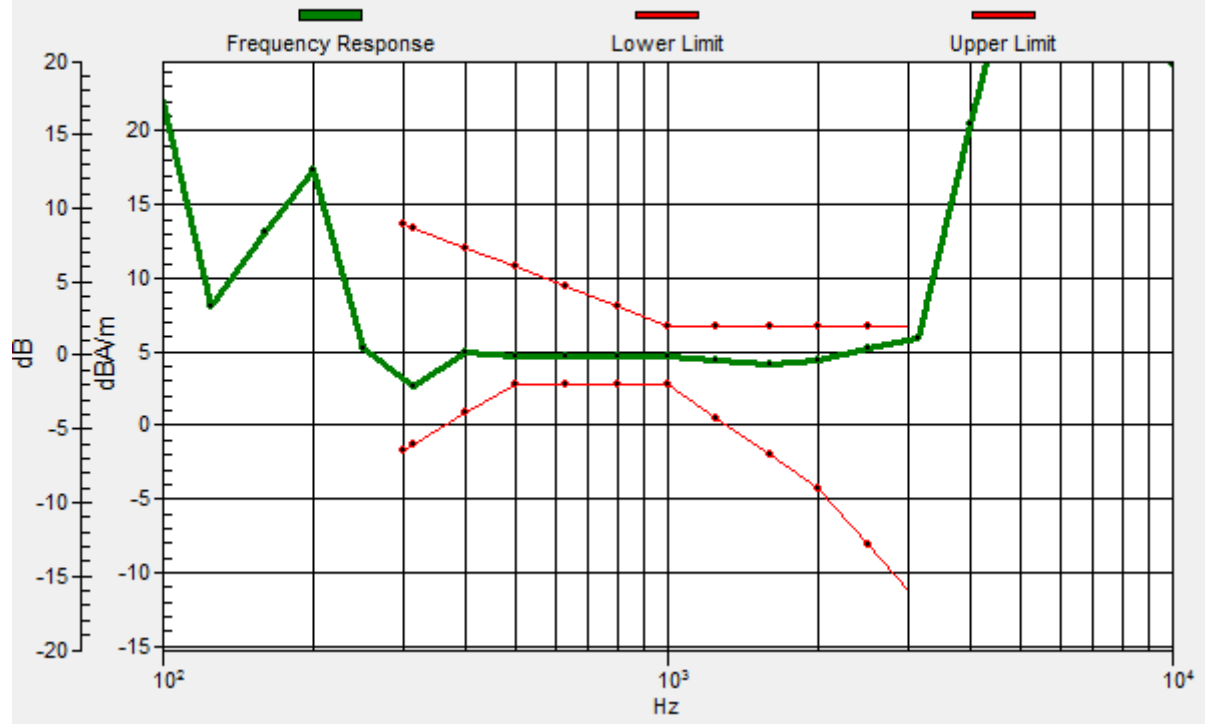
Location: 4.7, -4, 3.7 mm



0 dB = 270.6 = 48.65 dB

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

Loc: 4, -4, 3.7 mm Diff: 0.97dB



## #18\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

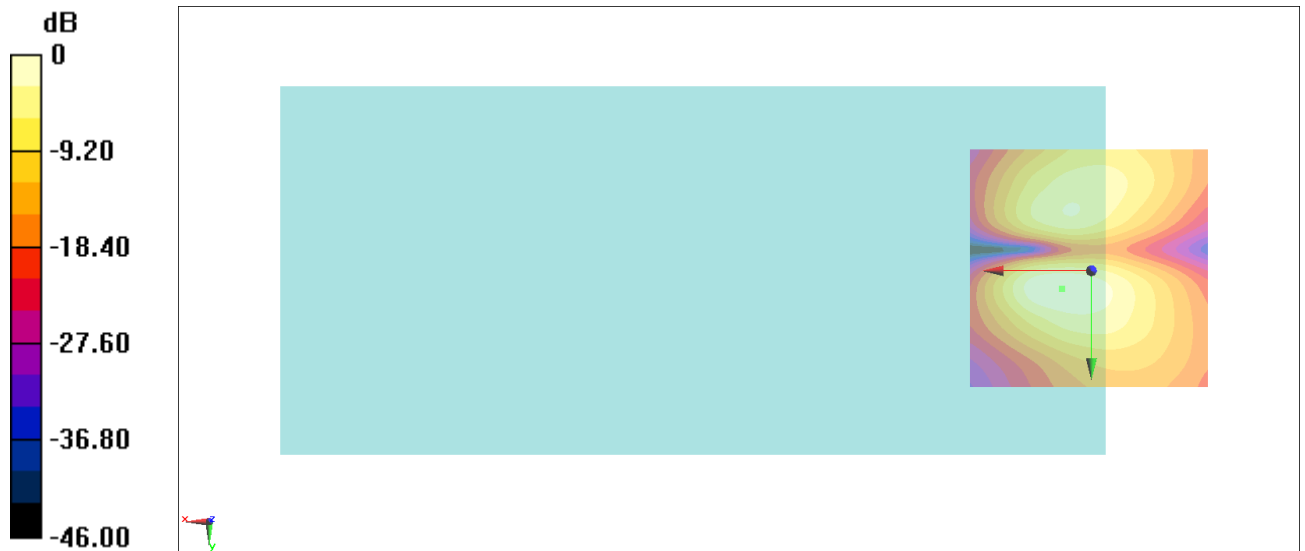
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 39.44 dB

ABM1 comp = 4.35 dBA/m

Location: 6.1, 3.7, 3.7 mm



0 dB = 93.72 = 39.44 dB

### #19\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

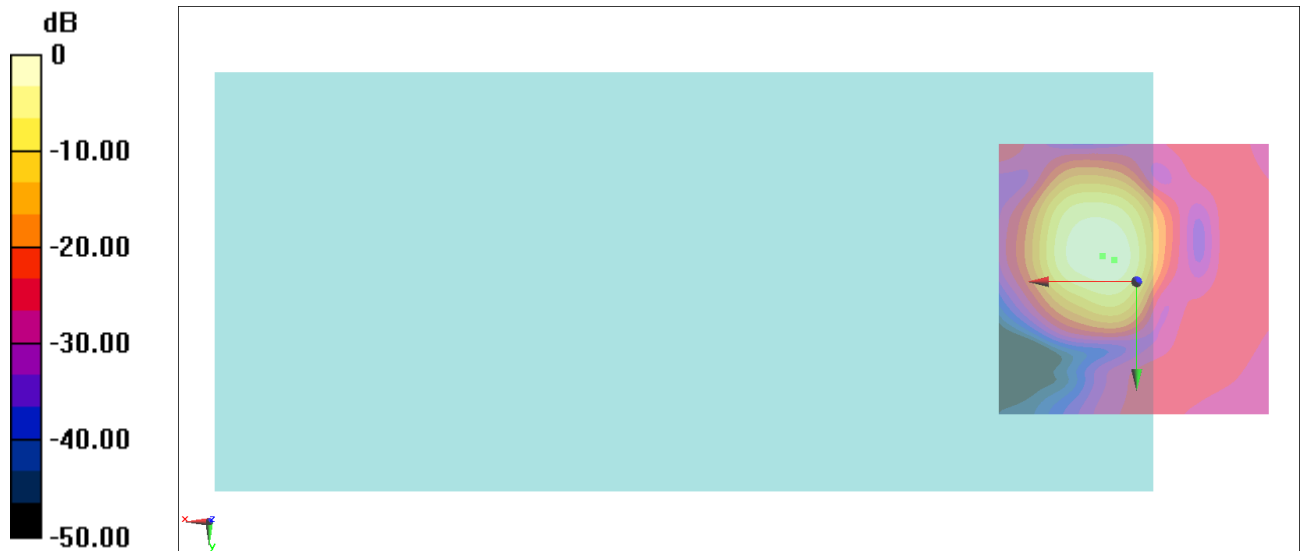
#### General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 54.62 dB

ABM1 comp = 11.00 dBA/m

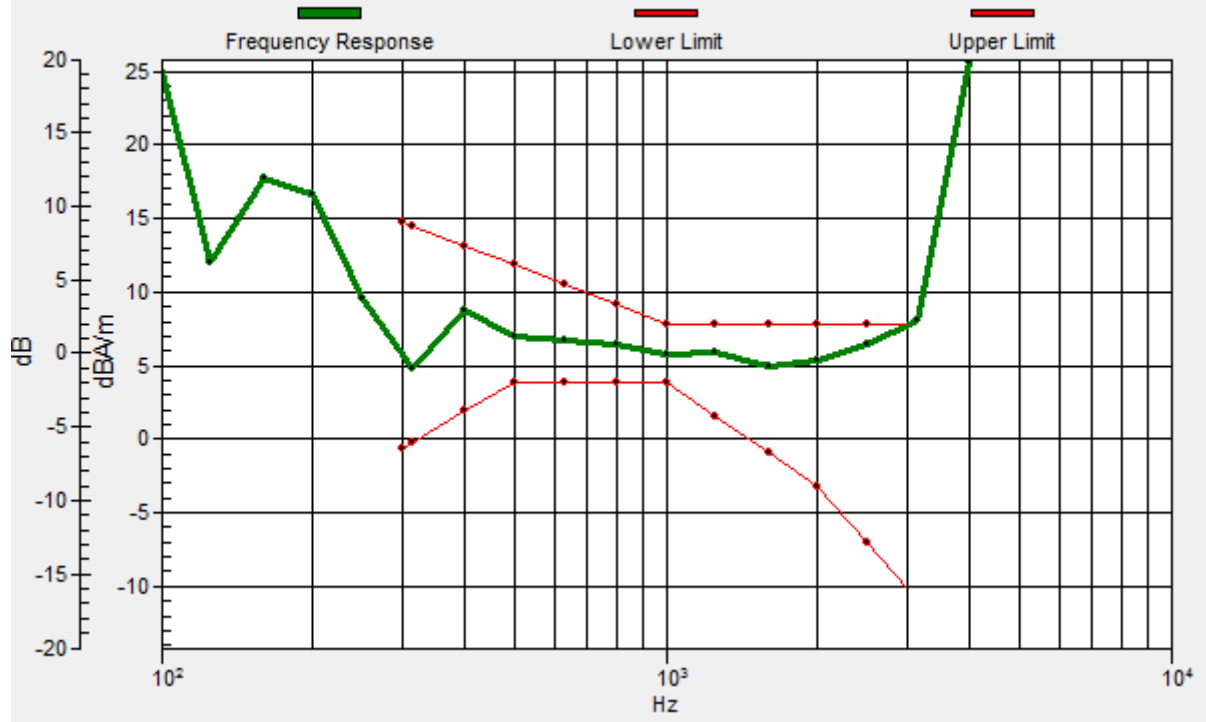
Location: 6.1, -4.7, 3.7 mm



0 dB = 538.0 = 54.62 dB

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

Loc: 4, -4, 3.7 mm Diff: 0.09dB





## #19\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

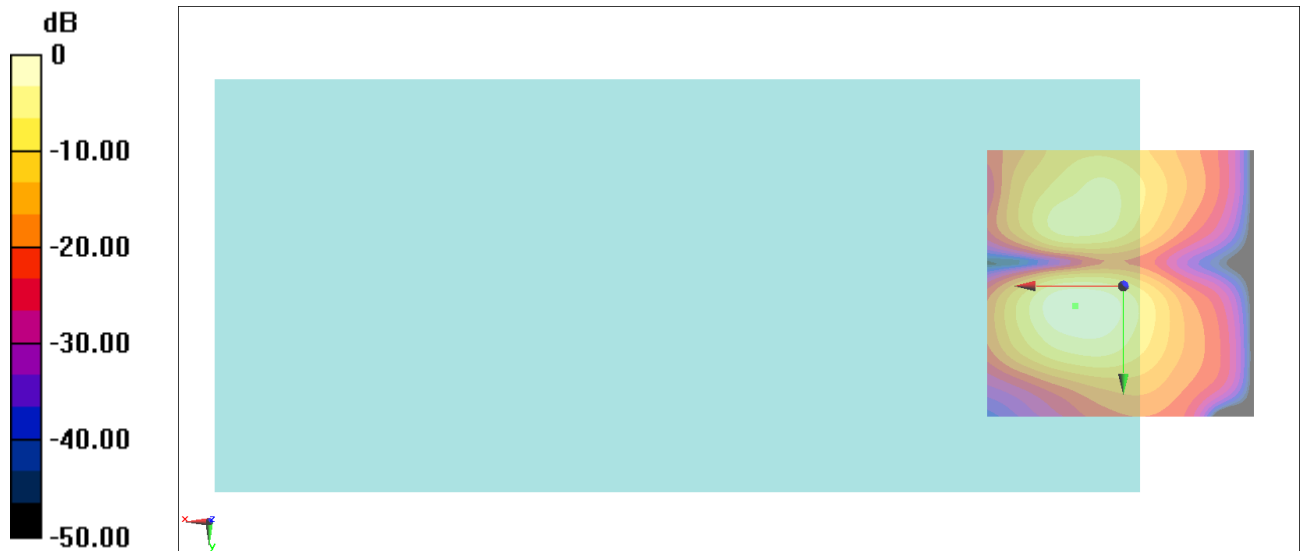
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 51.51 dB

ABM1 comp = 7.19 dBA/m

Location: 8.9, 3.7, 3.7 mm



0 dB = 376.2 = 51.51 dB

## #20\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

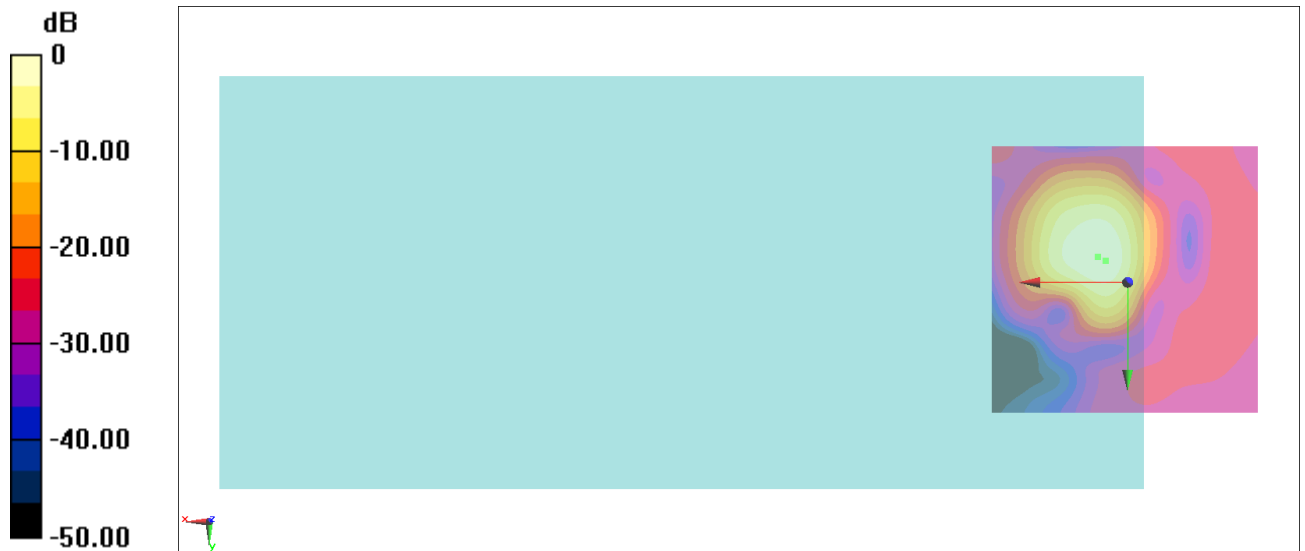
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 54.22 dB

ABM1 comp = 9.78 dBA/m

Location: 5.4, -4.7, 3.7 mm



0 dB = 514.1 = 54.22 dB

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

Loc: 4, -4, 3.7 mm Diff: 0.28dB



## #20\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

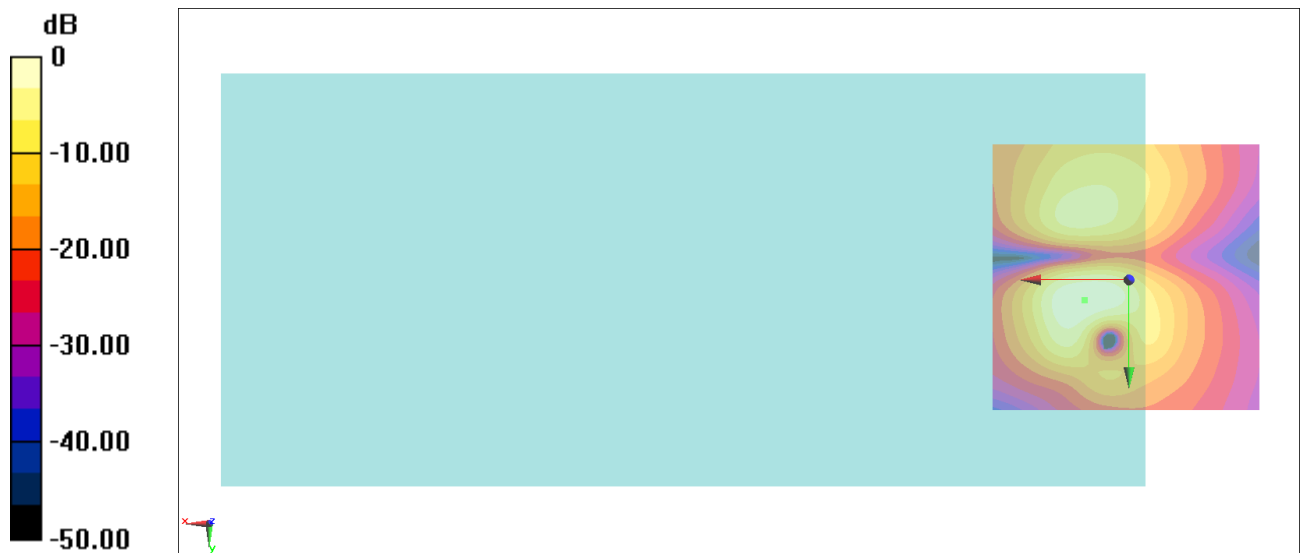
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 50.89 dB

ABM1 comp = 6.03 dBA/m

Location: 8.2, 3.7, 3.7 mm



0 dB = 350.4 = 50.89 dB

## #21\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

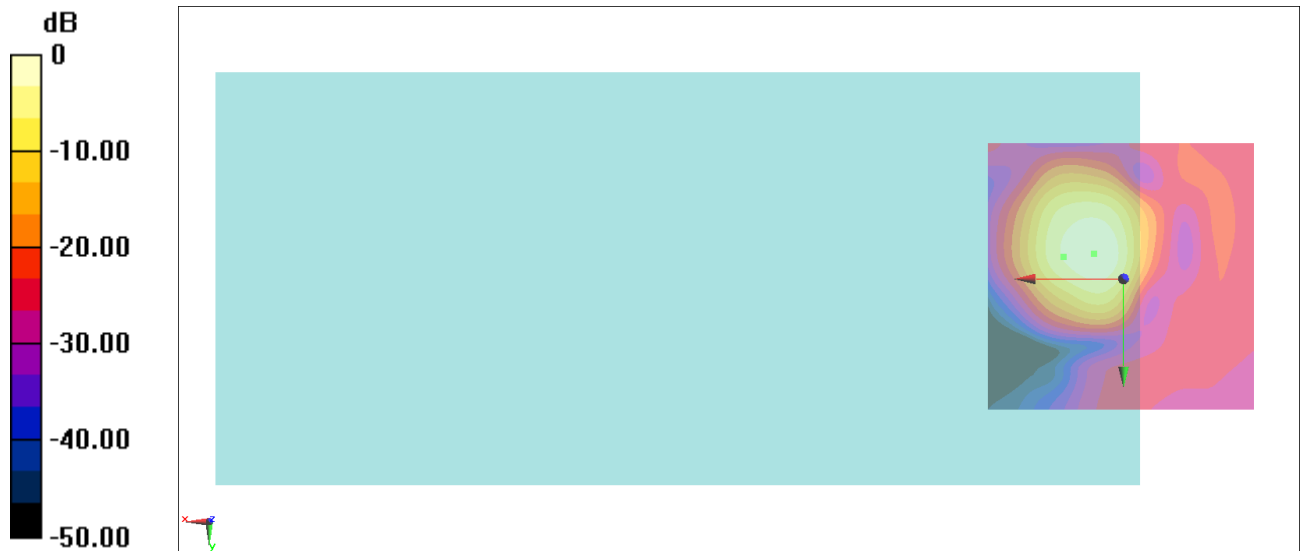
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 54.54 dB

ABM1 comp = 10.06 dBA/m

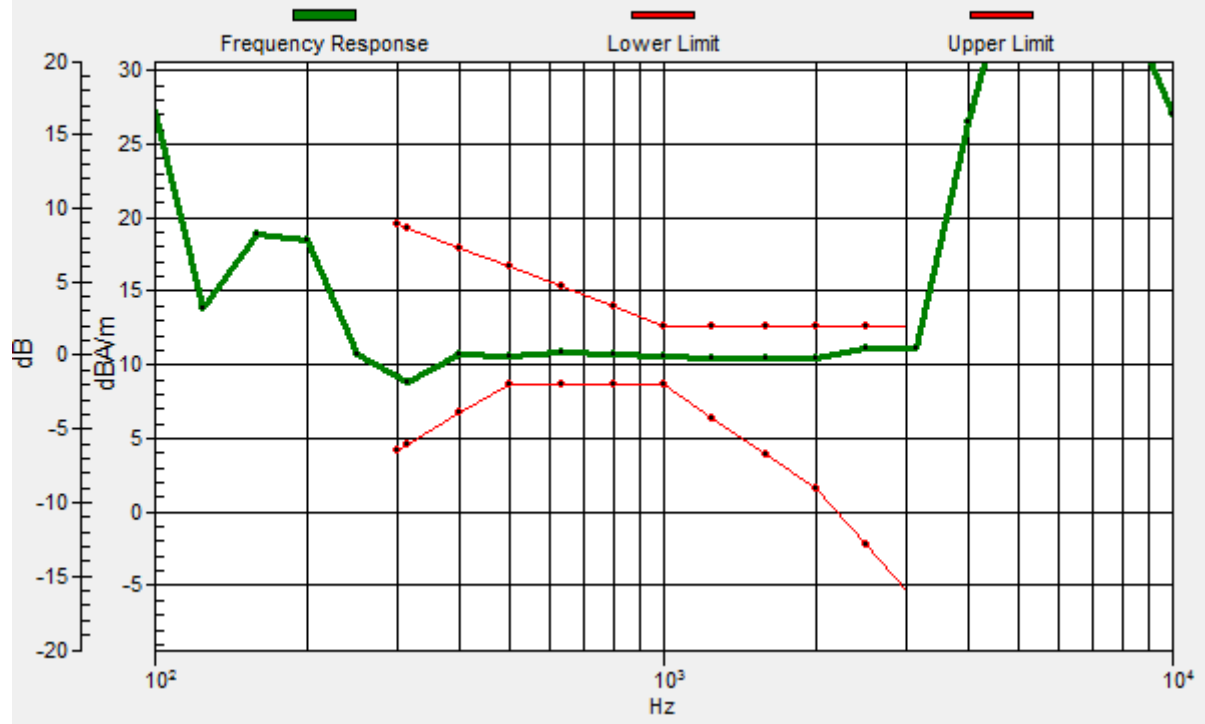
Location: 5.4, -4.7, 3.7 mm



0 dB = 533.2 = 54.54 dB

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

Loc: 11, -4, 3.7 mm Diff: 1.47dB



## #21\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

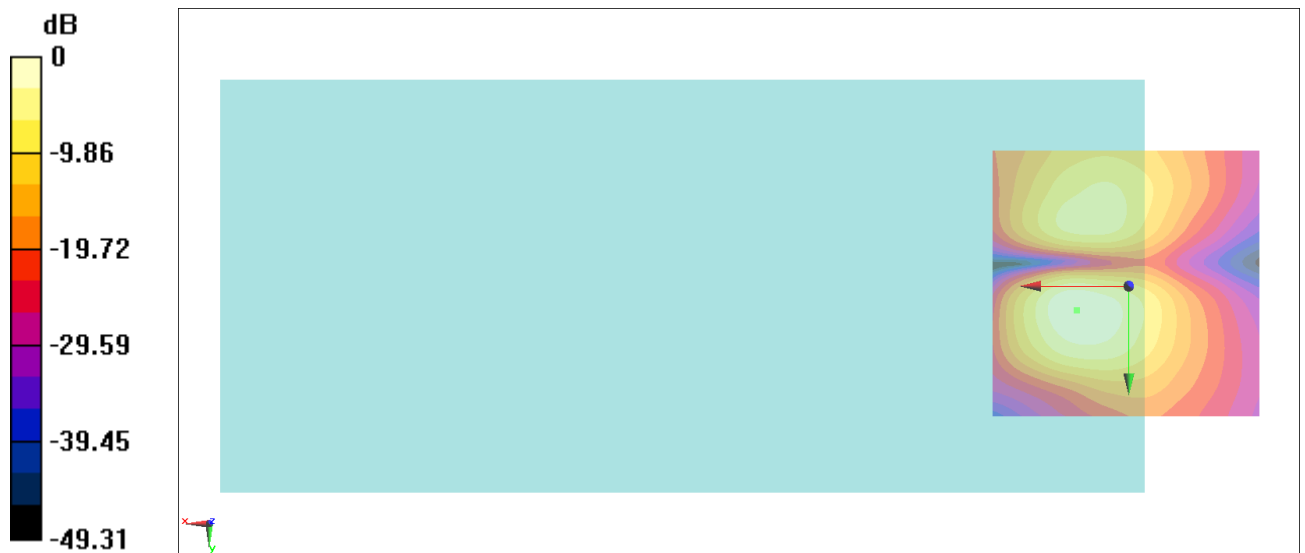
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 50.34 dB

ABM1 comp = 6.35 dBA/m

Location: 9.6, 4.4, 3.7 mm



0 dB = 328.9 = 50.34 dB

## #22\_HAC\_T-Coil\_LTE Band 14\_10M\_QPSK\_1\_0\_Ch23330\_Axial (Z)

Communication System: LTE; Frequency: 793 MHz

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

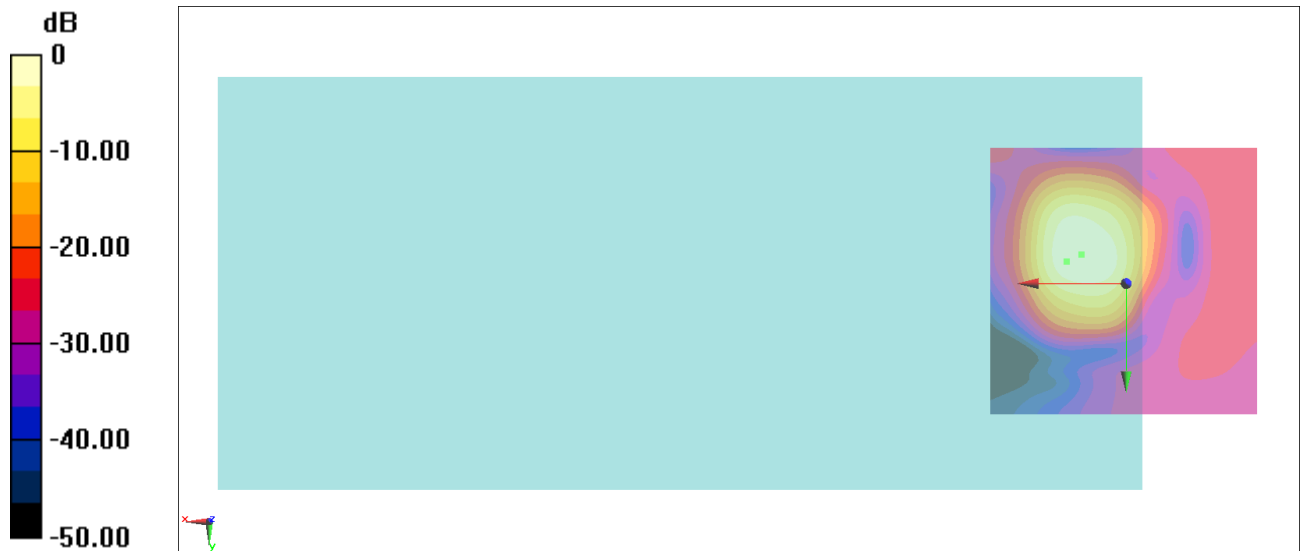
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 49.92 dB

ABM1 comp = 12.60 dBA/m

Location: 8.2, -5.4, 3.7 mm

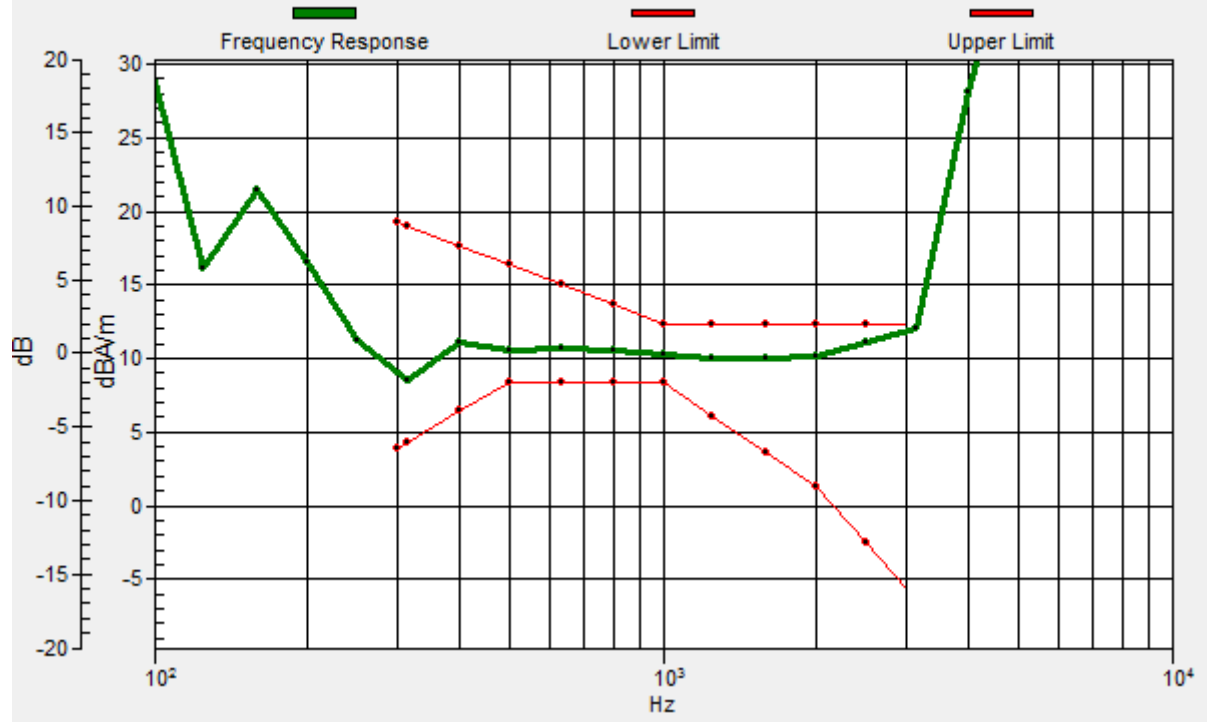


0 dB = 313.5 = 49.92 dB



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

Loc: 11, -4, 3.7 mm Diff: 0.58dB



## #22\_HAC\_T-Coil\_LTE Band 14\_10M\_QPSK\_1\_0\_Ch23330\_Transversal (Y)

Communication System: LTE; Frequency: 793 MHz

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

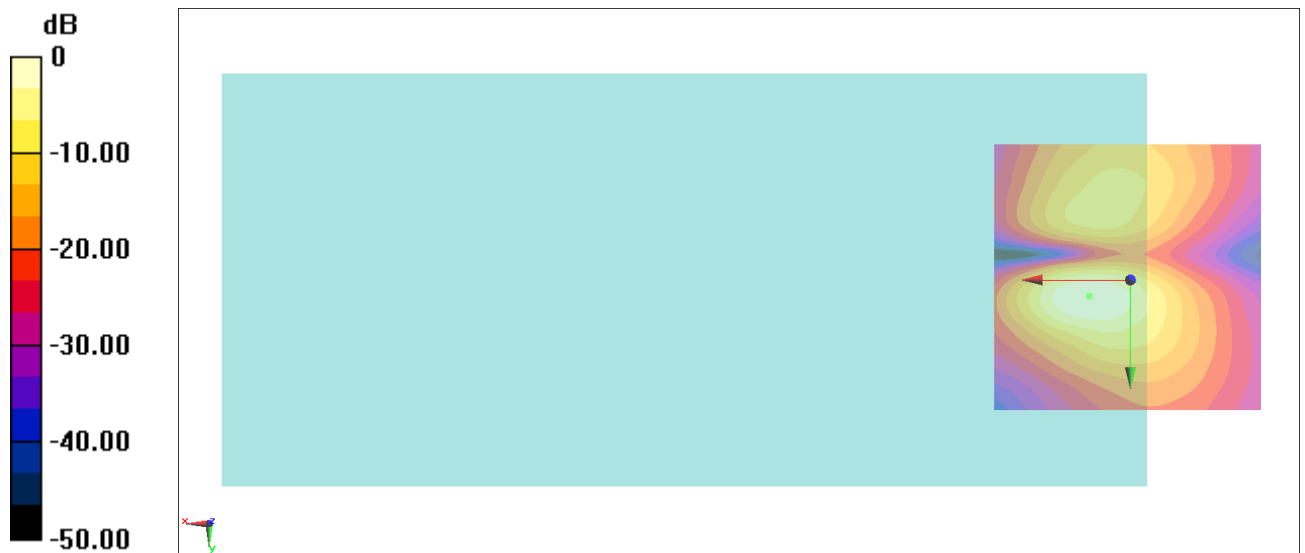
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 49.23 dB

ABM1 comp = 4.90 dBA/m

Location: 7.5, 3, 3.7 mm



0 dB = 289.3 = 49.23 dB

### #23\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

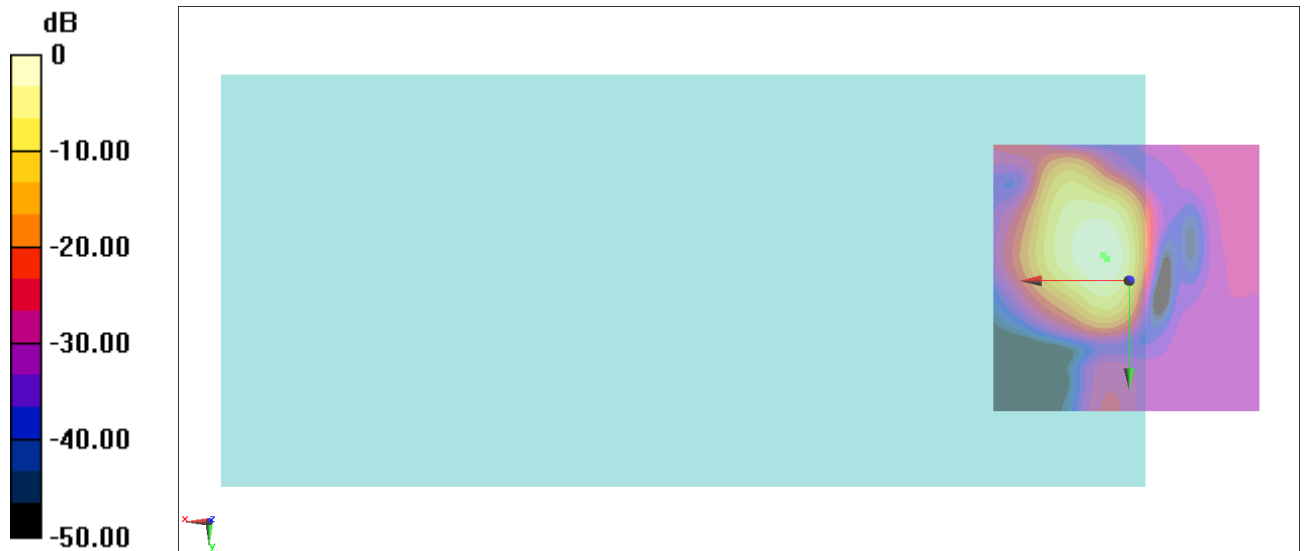
#### General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 43.62 dB

ABM1 comp = 8.47 dBA/m

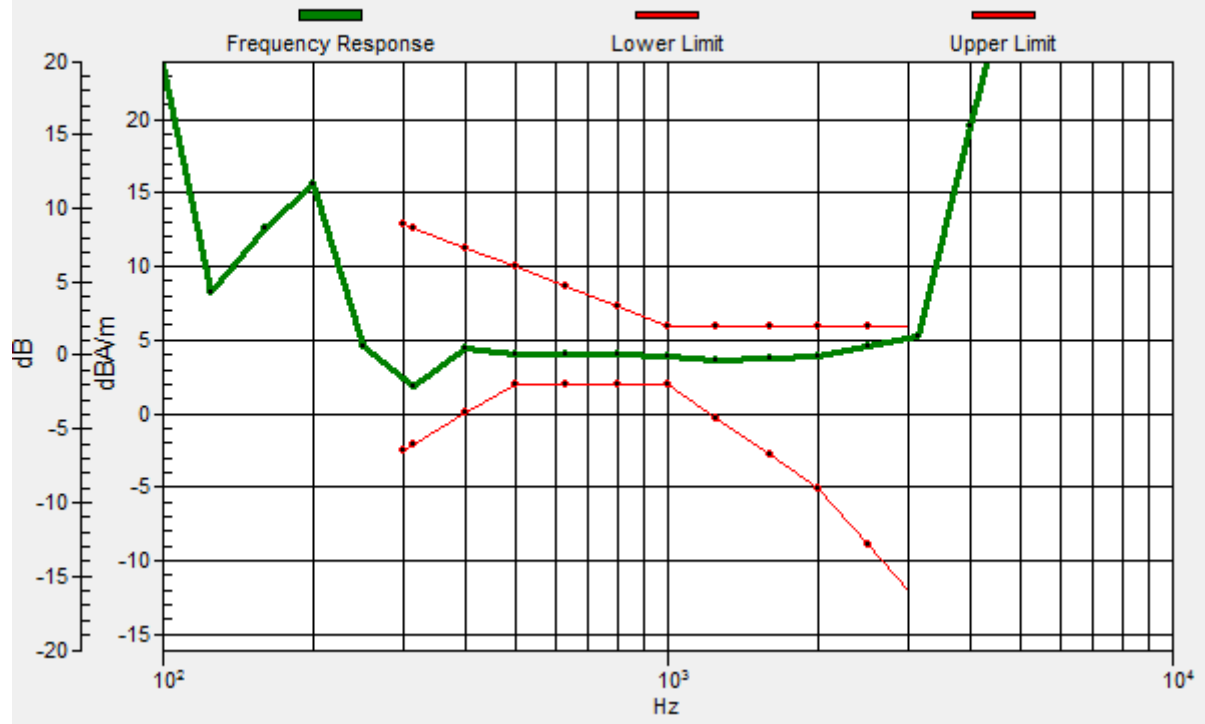
Location: 4.7, -4.7, 3.7 mm



0 dB = 151.8 = 43.62 dB

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

Loc: 4, -4, 3.7 mm Diff: 0.92dB



### #23\_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 : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

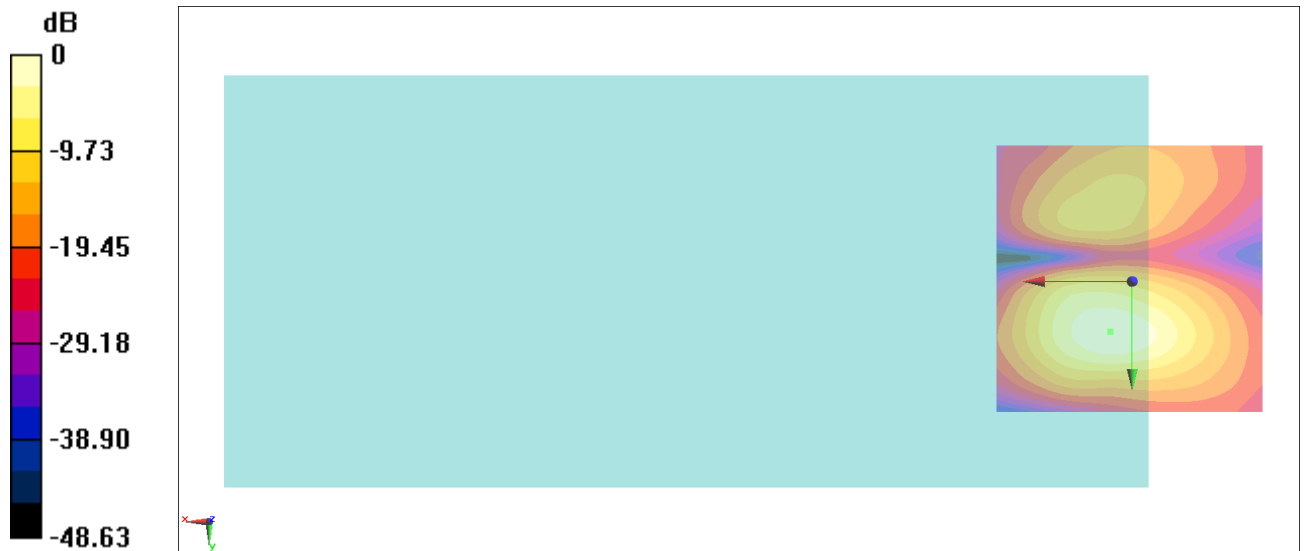
#### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 42.82 dB

ABM1 comp = 0.12 dBA/m

Location: 4, 9.3, 3.7 mm



0 dB = 138.3 = 42.82 dB

## #24\_HAC\_T-Coil\_WLAN5GHz\_802.11a 6Mbps\_Ch60\_Axial (Z)

Communication System: 802.11a; Frequency: 5300 MHz

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

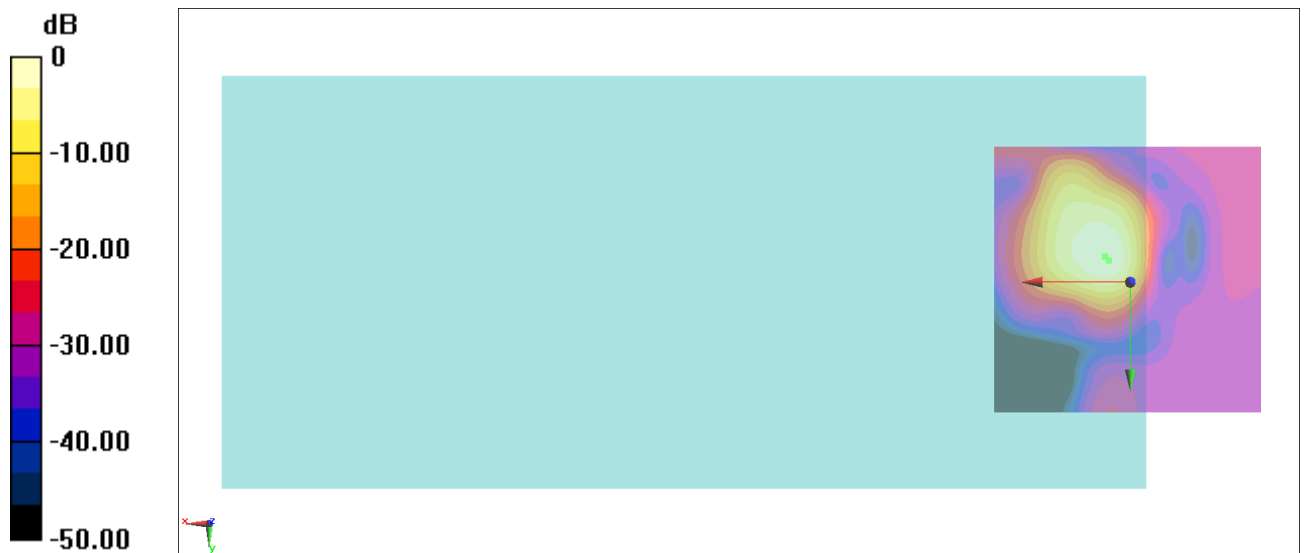
**General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated

grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 47.72 dB

ABM1 comp = 8.64 dBA/m

Location: 4.7, -4.7, 3.7 mm



0 dB = 243.3 = 47.72 dB



## #24\_HAC\_T-Coil\_WLAN5GHz\_802.11a 6Mbps\_Ch60\_Transversal (Y)

Communication System: 802.11a; Frequency: 5300 MHz

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1311; Calibrated: 2019/8/27

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

### 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 = 41.55 dB

ABM1 comp = -4.70 dBA/m

Location: -1.6, 9.3, 3.7 mm

