

## #01\_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 : 23.6 °C

### DASY5 Configuration

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2020/8/25
- 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)

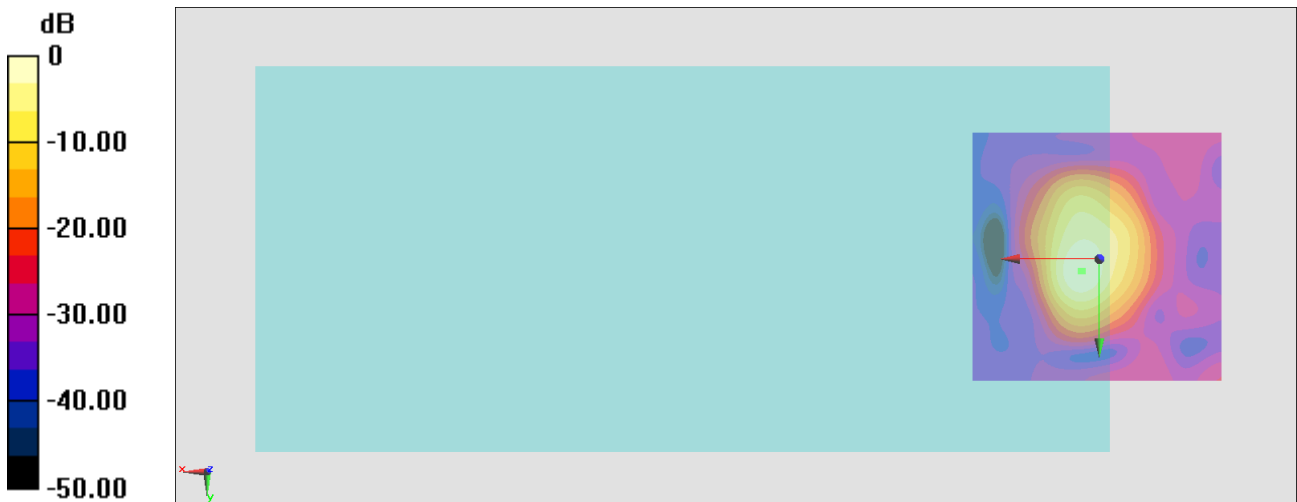
### General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 30.48 dB

ABM1 comp = -10.24 dBA/m

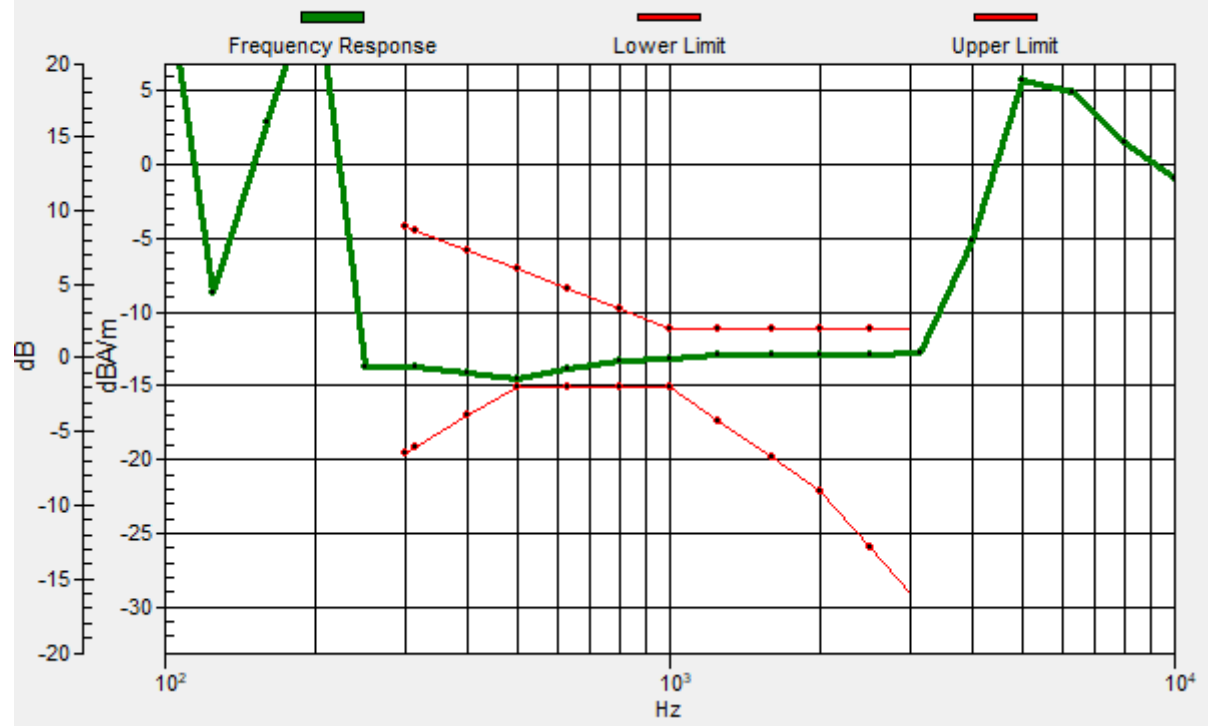
Location: 3.3, 2.3, 3.7 mm



0 dB = 33.42 = 30.48 dB

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

Loc: 3.6, 2.4, 3.7 mm Diff: 0.59dB



## #01\_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 : 23.6 °C

### DASY5 Configuration

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2020/8/25
- 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)

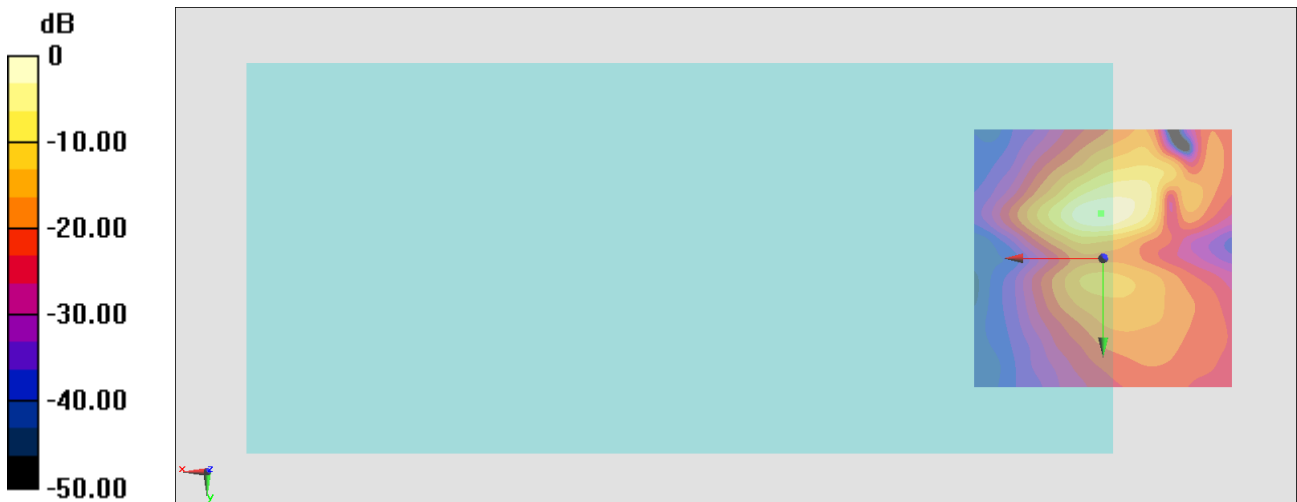
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 34.34 dB

ABM1 comp = -11.67 dBA/m

Location: 0.4, -8.8, 3.7 mm



0 dB = 52.11 = 34.34 dB

## #02\_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 : 23.6 °C

### DASY5 Configuration

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2020/8/25
- 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)

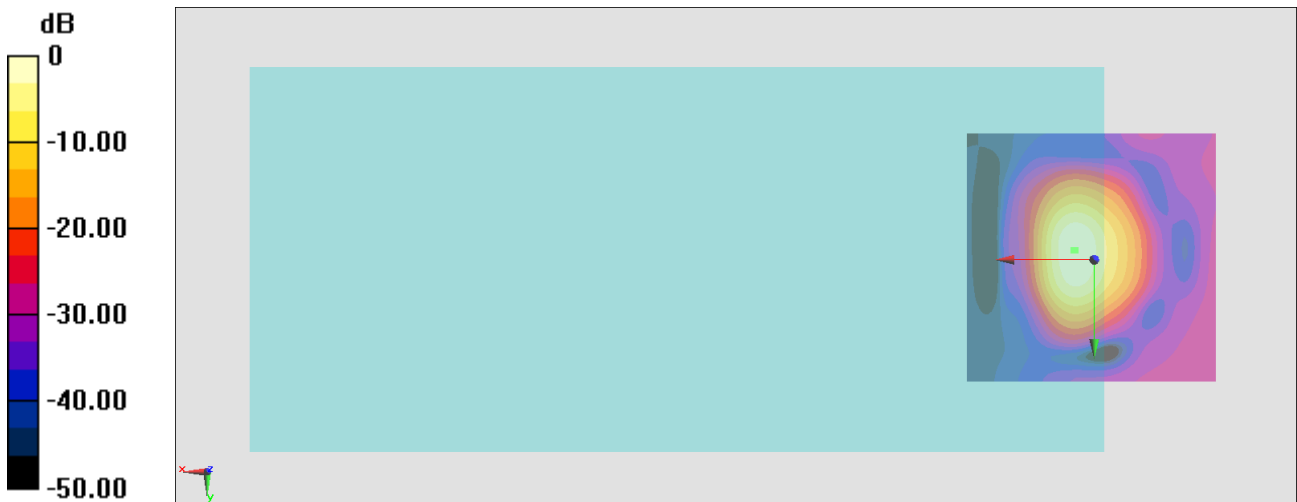
### General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 38.82 dB

ABM1 comp = -2.66 dBA/m

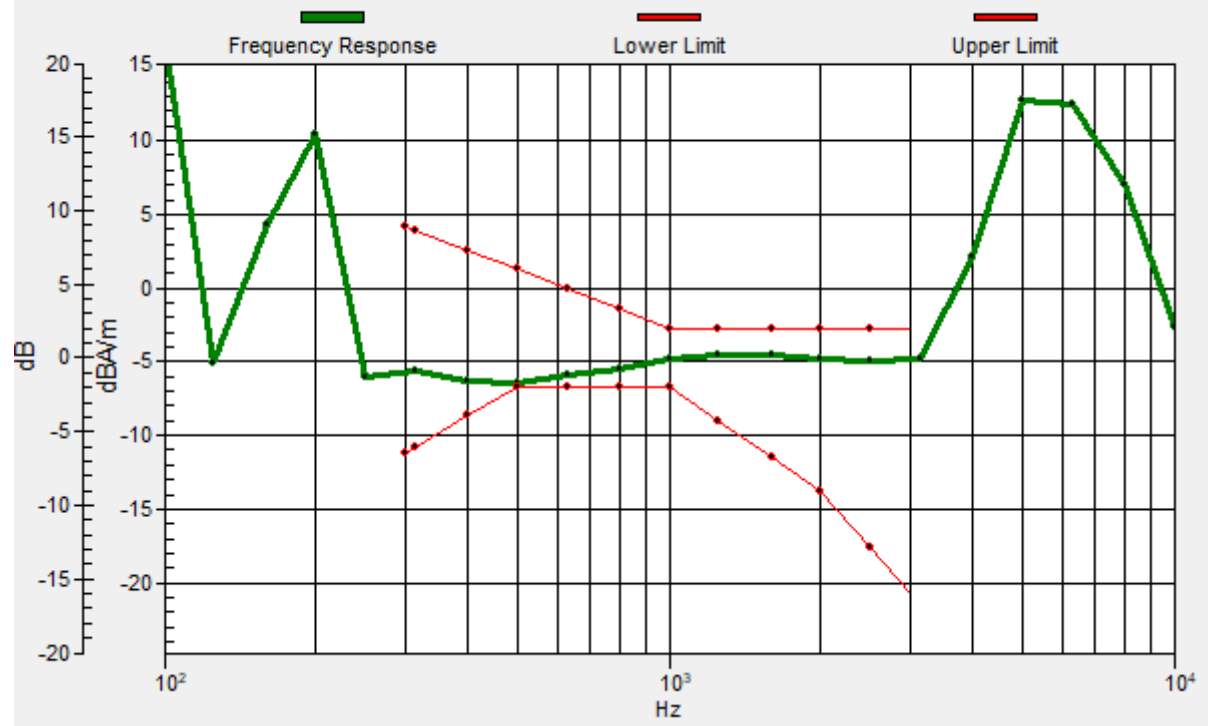
Location: 4, -1.9, 3.7 mm



0 dB = 87.31 = 38.82 dB

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

Loc: 3.7, -1.9, 3.7 mm Diff: 0.28dB



## #02\_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 : 23.6 °C

### DASY5 Configuration

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2020/8/25
- 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)

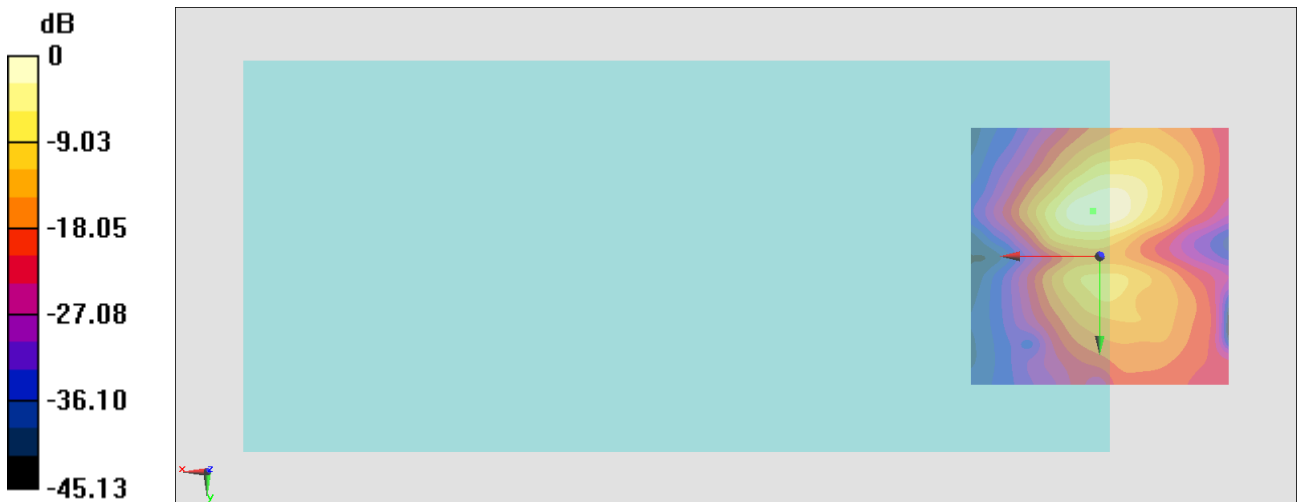
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 34.50 dB

ABM1 comp = -11.30 dBA/m

Location: 1.3, -8.8, 3.7 mm



0 dB = 53.12 = 34.51 dB

### #03\_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 : 23.6 °C

#### DASY5 Configuration

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2020/8/25
- 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)

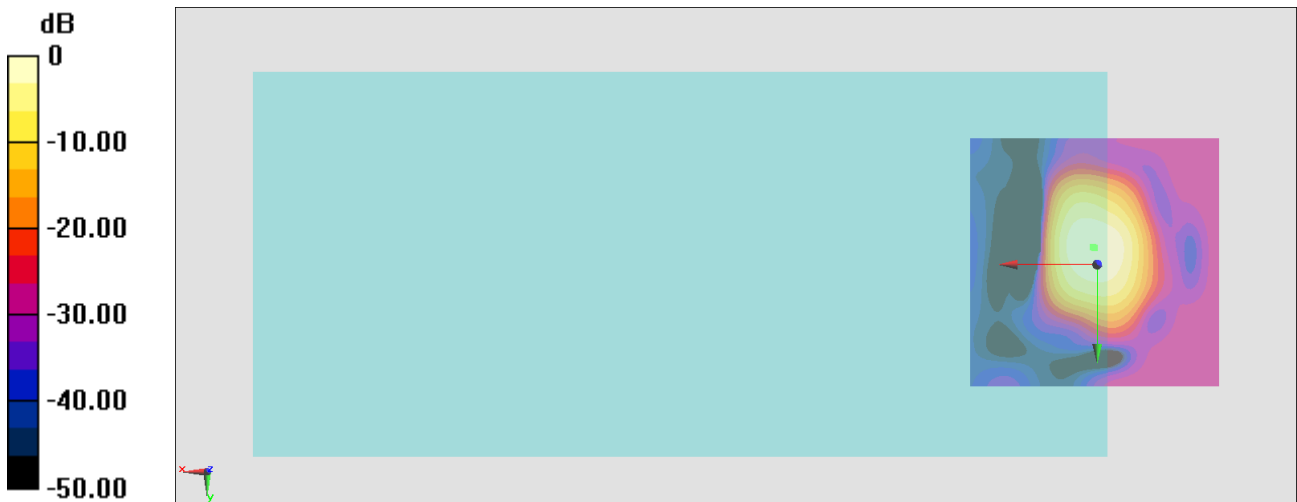
#### General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 42.42 dB

ABM1 comp = -6.46 dBA/m

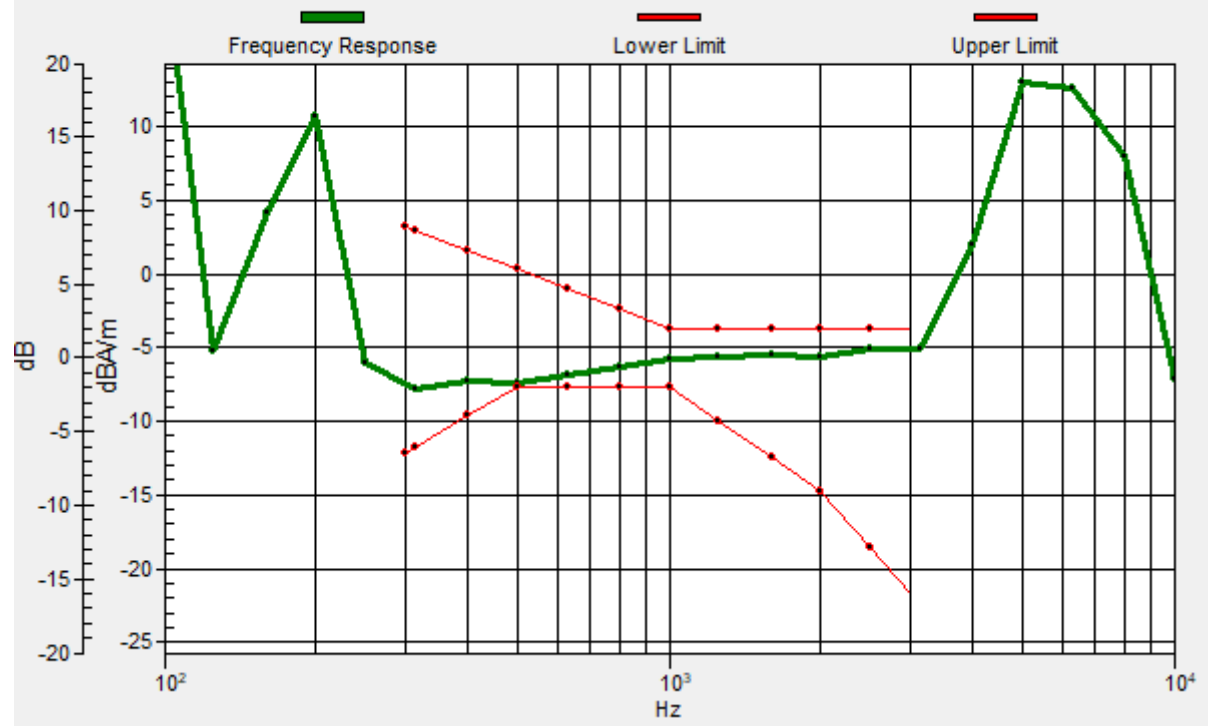
Location: 0.5, -3.3, 3.7 mm



0 dB = 132.1 = 42.42 dB

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

Loc: 0.8, -3.5, 3.7 mm Diff: 0.27dB





### #03\_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 : 23.6 °C

#### DASY5 Configuration

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2020/8/25
- 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)

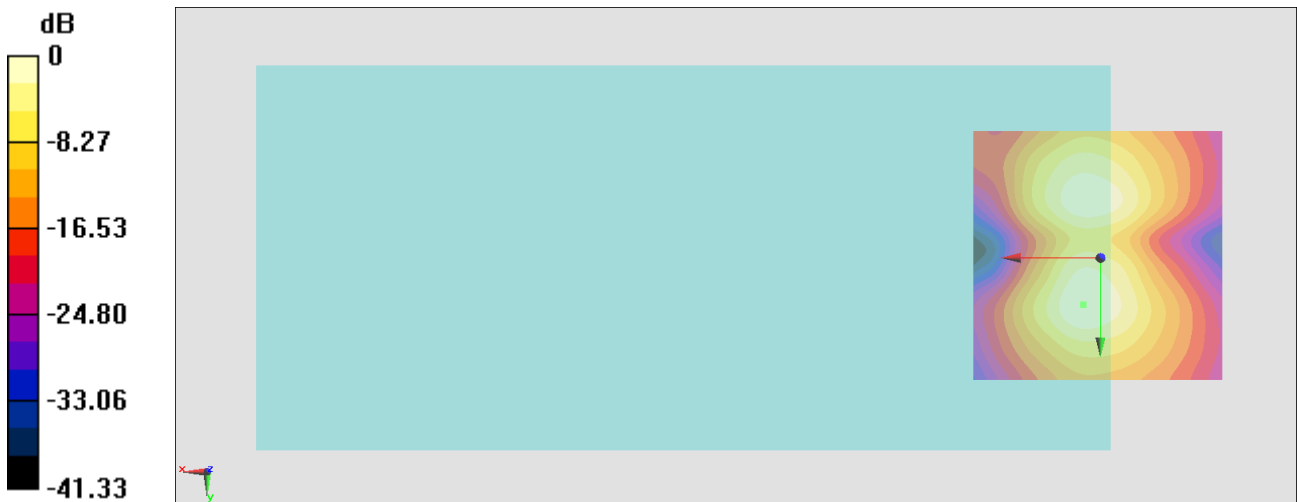
#### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 36.86 dB

ABM1 comp = -11.02 dBA/m

Location: 3.3, 9.3, 3.7 mm



0 dB = 69.69 = 36.86 dB

## #04\_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 : 23.6 °C

### DASY5 Configuration

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2020/8/25
- 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)

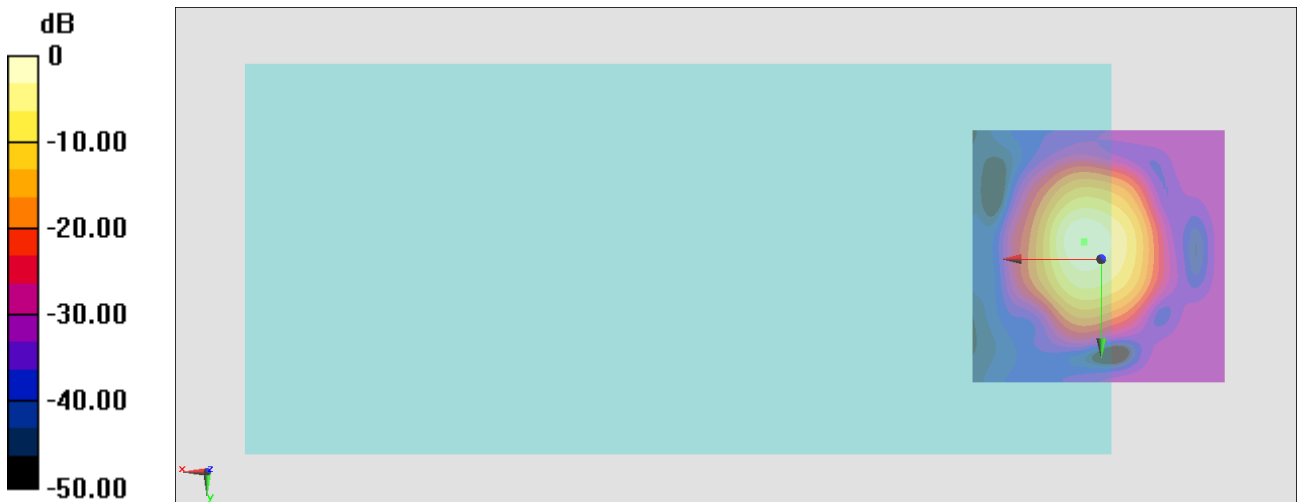
### General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 45.66 dB

ABM1 comp = -3.00 dBA/m

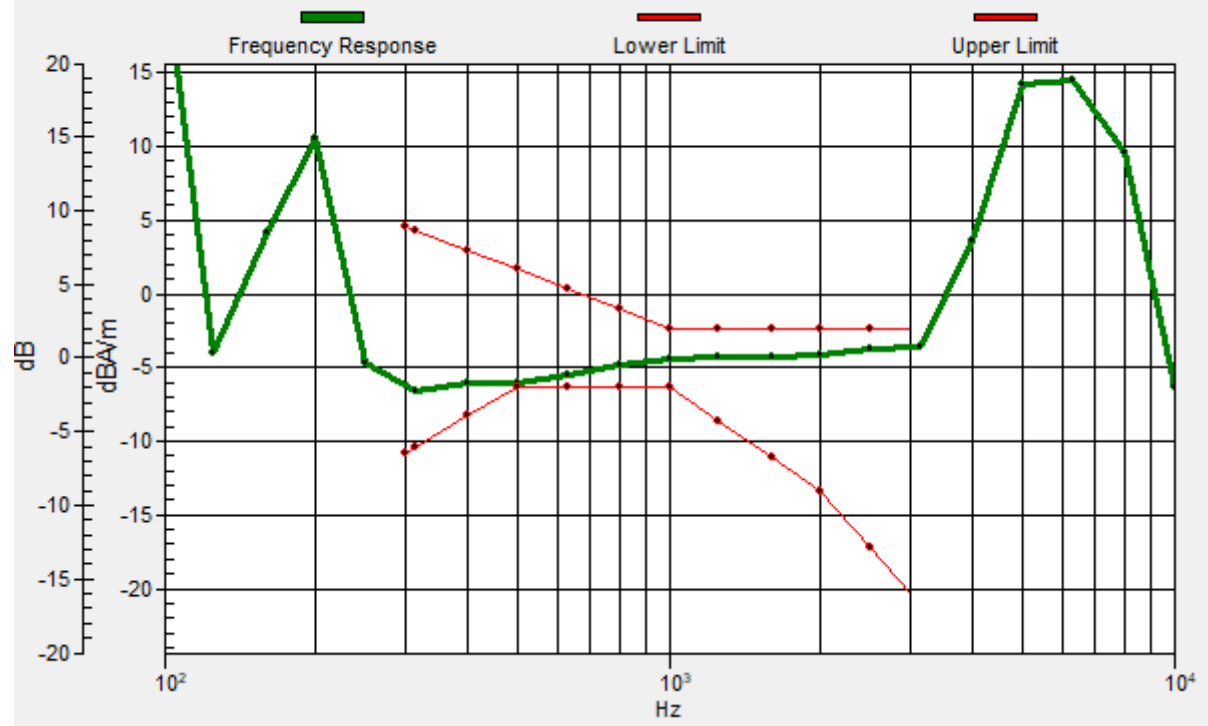
Location: 3.3, -3.3, 3.7 mm



0 dB = 192.0 = 45.67 dB

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

Loc: 3.3, -3.5, 3.7 mm Diff: 0.25dB



## #04\_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 : 23.6 °C

### DASY5 Configuration

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2020/8/25
- 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)

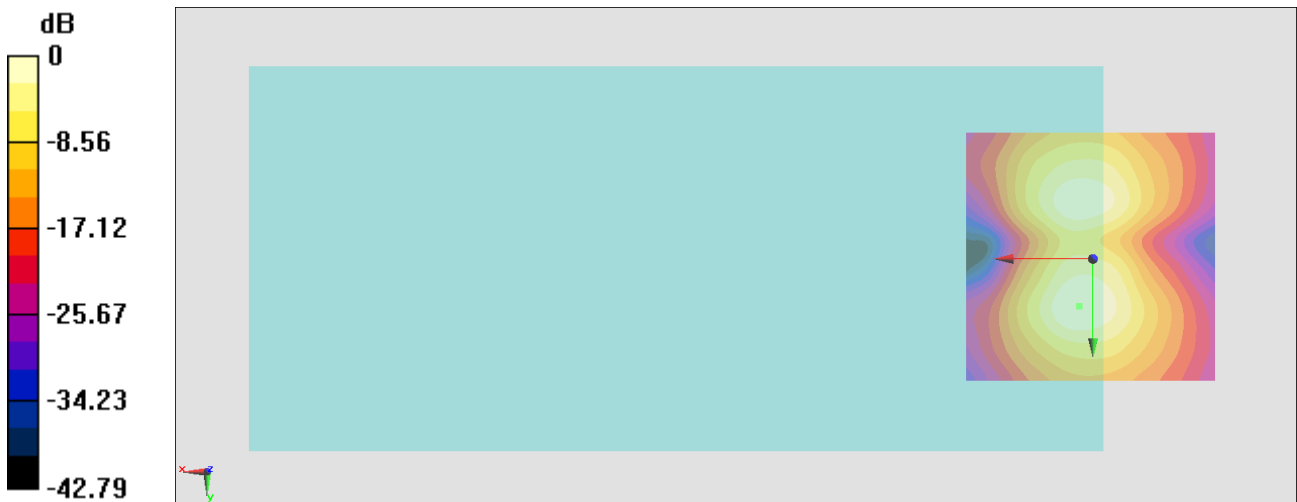
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 37.53 dB

ABM1 comp = -10.85 dBA/m

Location: 2.6, 9.3, 3.7 mm



0 dB = 75.24 = 37.53 dB

## #05\_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 : 23.6 °C

### DASY5 Configuration

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2020/8/25
- 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)

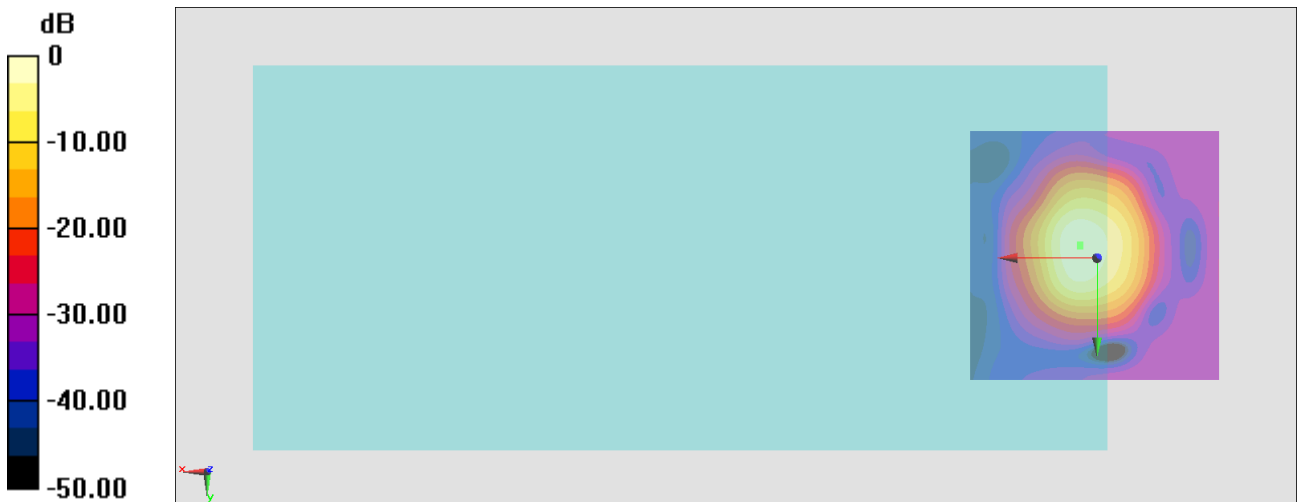
### General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 45.50 dB

ABM1 comp = -2.61 dBA/m

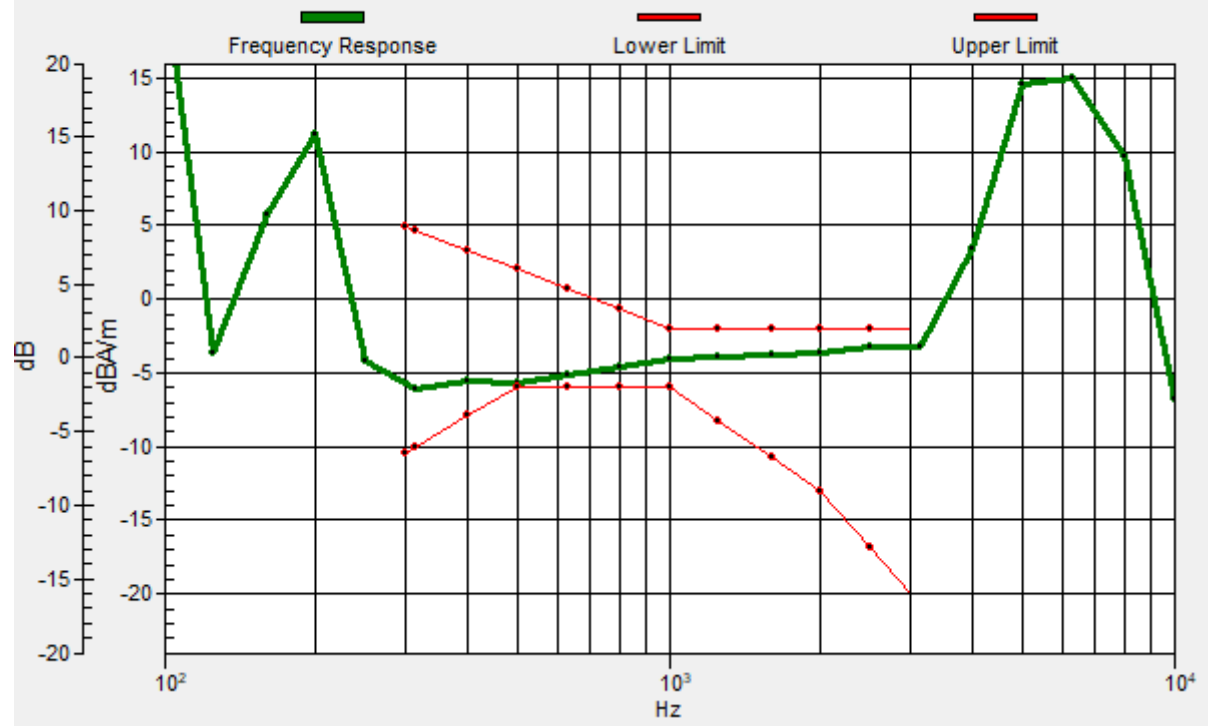
Location: 3.3, -2.6, 3.7 mm



0 dB = 188.3 = 45.50 dB

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

Loc: 3.4, -2.4, 3.7 mm Diff: 0.3dB



## #05\_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 : 23.6 °C

### DASY5 Configuration

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2020/8/25
- 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)

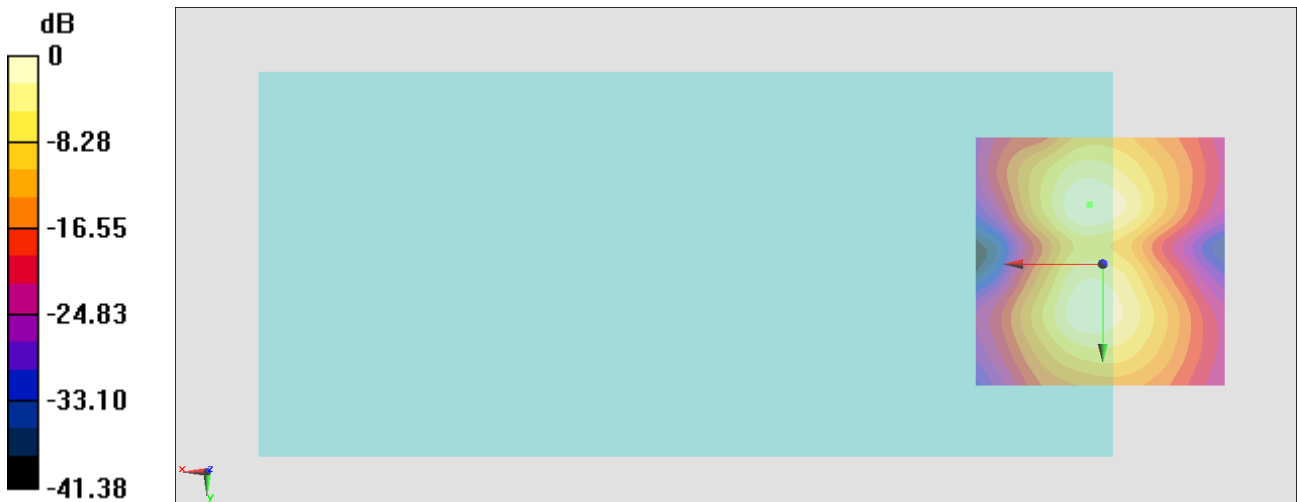
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 37.32 dB

ABM1 comp = -10.26 dBA/m

Location: 2.6, -11.7, 3.7 mm



0 dB = 73.49 = 37.32 dB

## #06\_HAC\_T-Coil\_LTE Band 2\_10M\_16QAM\_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 : 23.6 °C

### DASY5 Configuration

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2020/8/25
- 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)

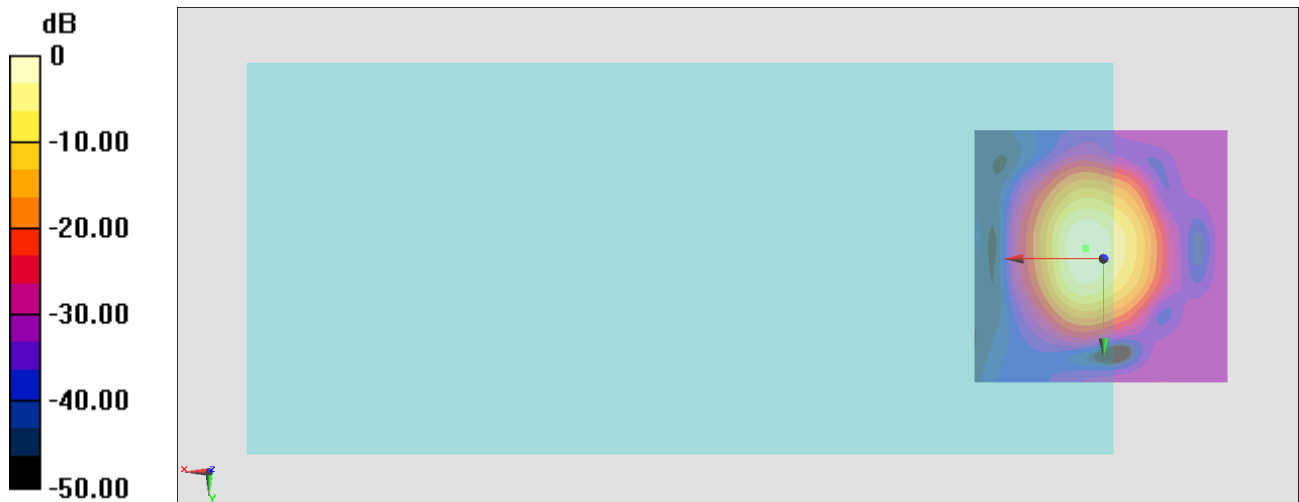
### General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 44.83 dB

ABM1 comp = -2.87 dBA/m

Location: 3.3, -1.9, 3.7 mm

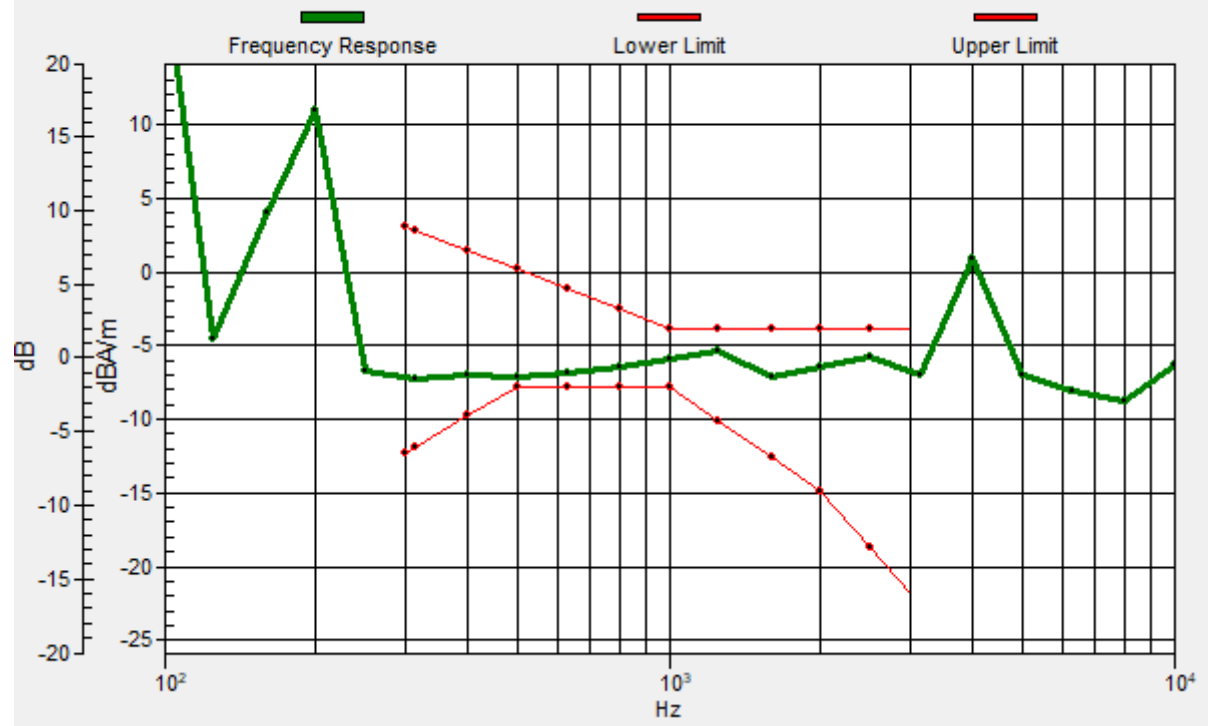


0 dB = 174.3 = 44.83 dB



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

Loc: 3.5, -2.2, 3.7 mm Diff: 0.65dB



## #06\_HAC\_T-Coil\_LTE Band 2\_10M\_16QAM\_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 : 23.6 °C

### DASY5 Configuration

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2020/8/25
- 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)

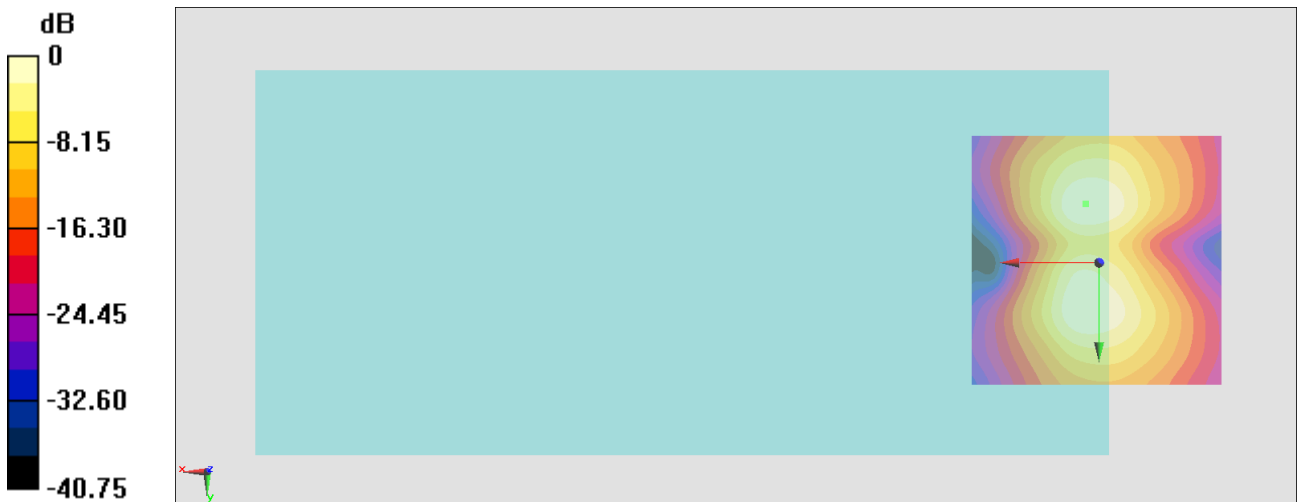
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 35.26 dB

ABM1 comp = -11.04 dBA/m

Location: 2.6, -11.7, 3.7 mm



0 dB = 57.94 = 35.26 dB

## #07\_HAC\_T-Coil\_WLAN2.4GHz\_802.11g 6Mbps\_Ch6\_Axial (Z)

Communication System: 802.11g; Frequency: 2437 MHz

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

Ambient Temperature : 23.6 °C

### DASY5 Configuration

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2020/8/25
- 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)

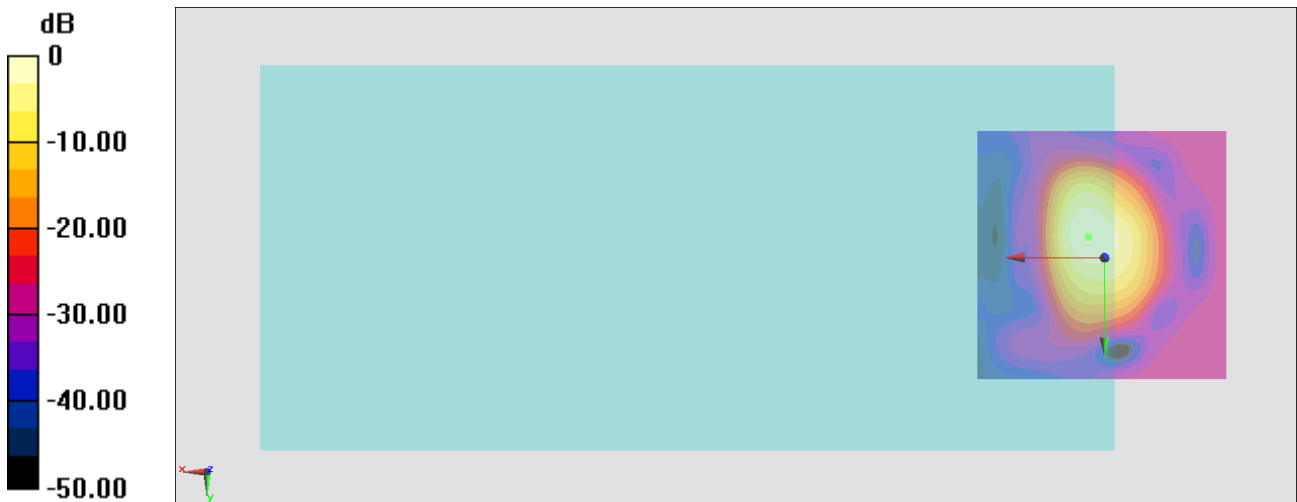
### General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 36.75 dB

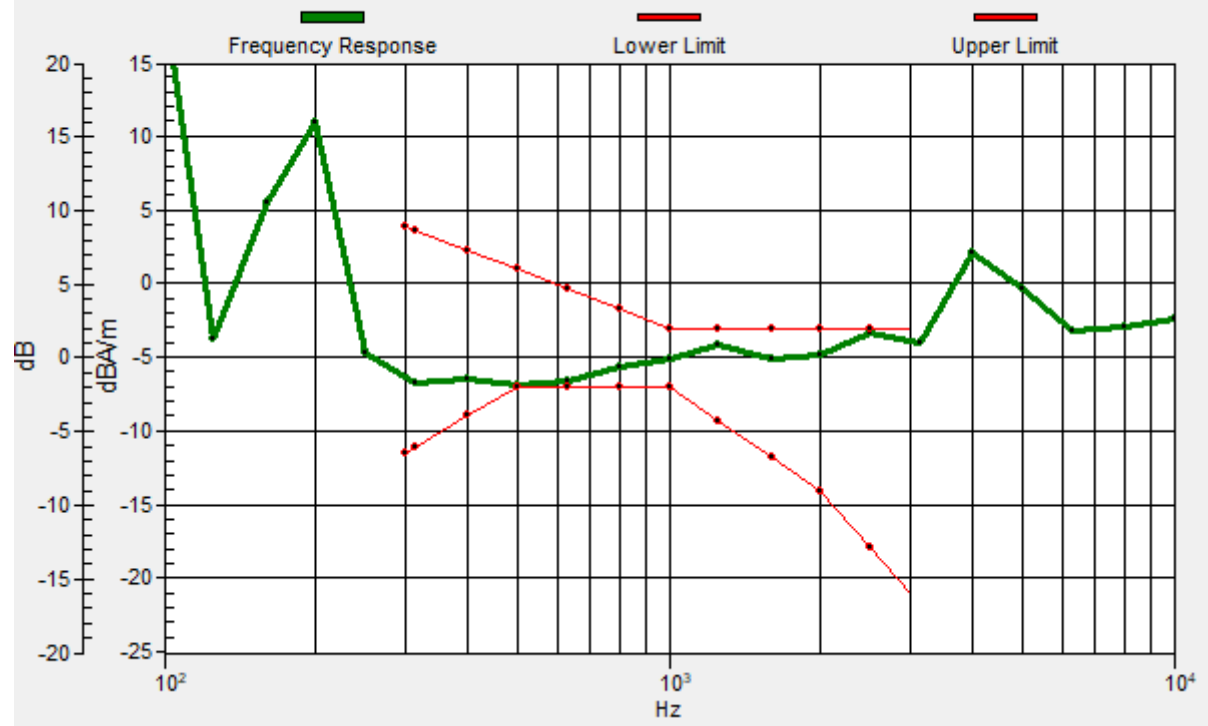
ABM1 comp = -3.29 dBA/m

Location: 3.3, -4, 3.7 mm



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

Loc: 3.1, -4.1, 3.7 mm Diff: 0.16dB



## #07\_HAC\_T-Coil\_WLAN2.4GHz\_802.11g\_6Mbps\_Ch6\_Transversal (Y)

Communication System: 802.11g; Frequency: 2437 MHz

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

Ambient Temperature : 23.6 °C

### DASY5 Configuration

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2020/8/25
- 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)

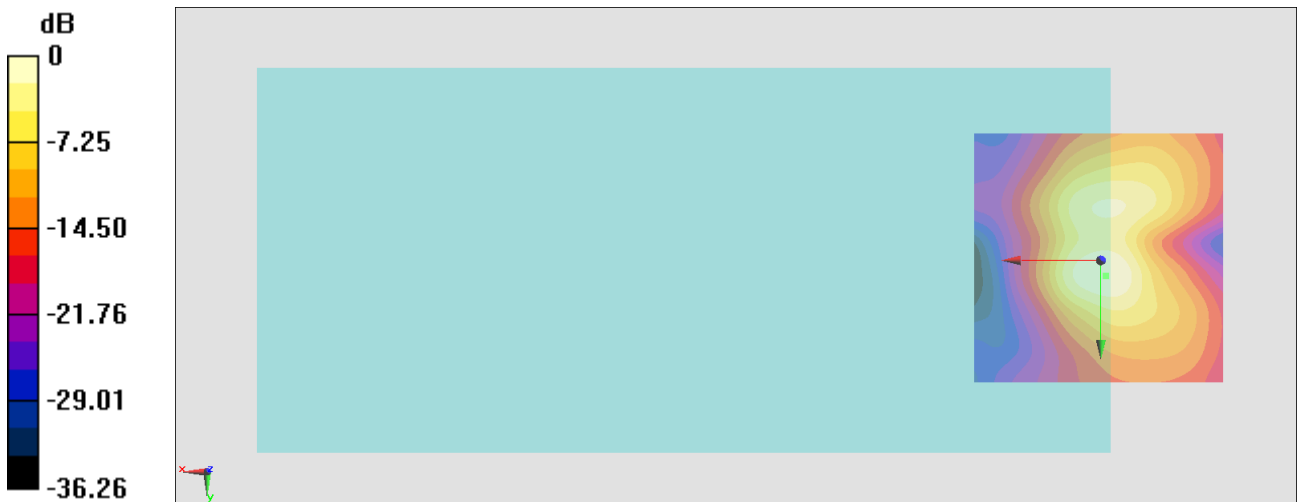
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 30.26 dB

ABM1 comp = -14.63 dBA/m

Location: -0.9, 3, 3.7 mm



## #08\_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 : 23.6 °C

### DASY5 Configuration

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2020/8/25
- 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)

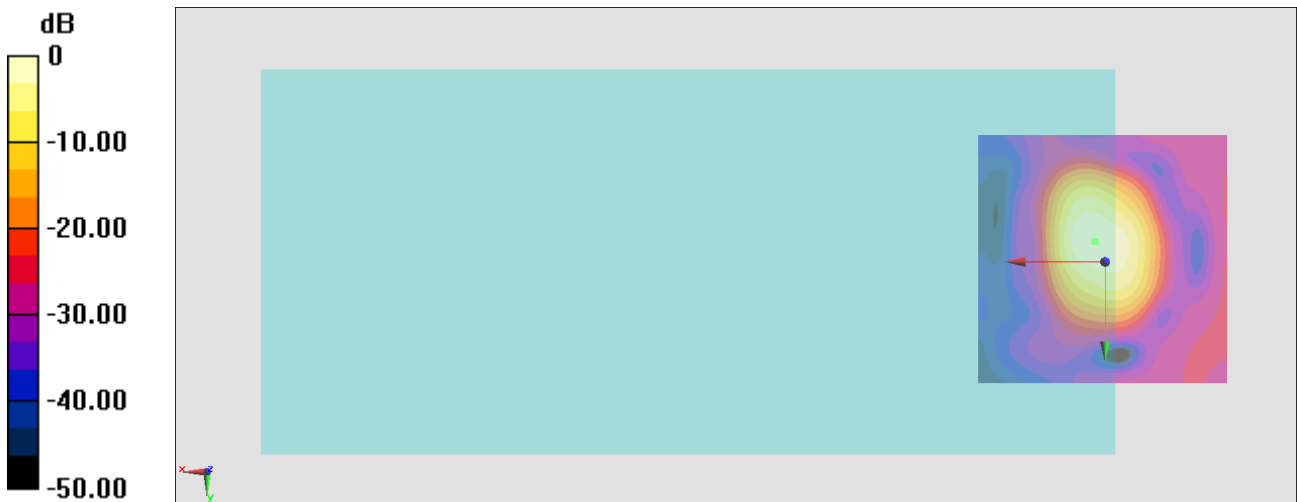
### General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 38.33 dB

ABM1 comp = -3.38 dBA/m

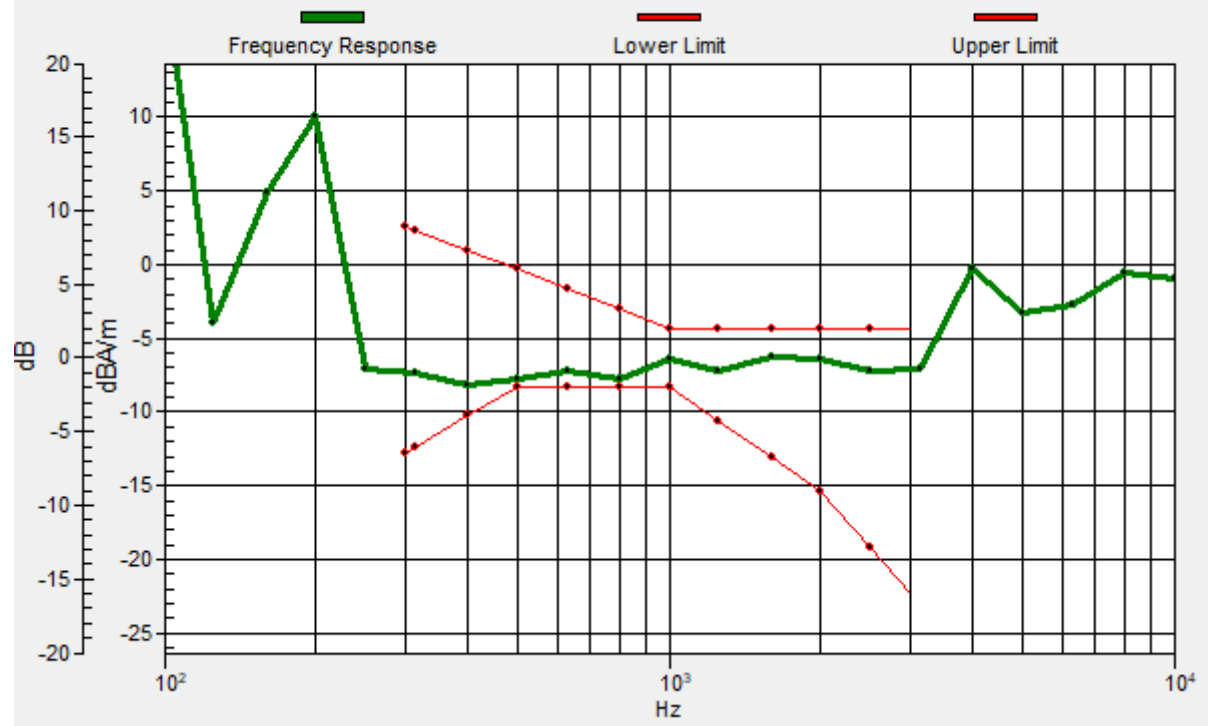
Location: 1.9, -4, 3.7 mm



0 dB = 82.52 = 38.33 dB

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

Loc: 2, -4.1, 3.7 mm Diff: 0.58dB



## #08\_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 : 23.6 °C

### DASY5 Configuration

- Probe: AM1DV3 - 3130; ; Calibrated: 2019/11/20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1311; Calibrated: 2020/8/25
- 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)

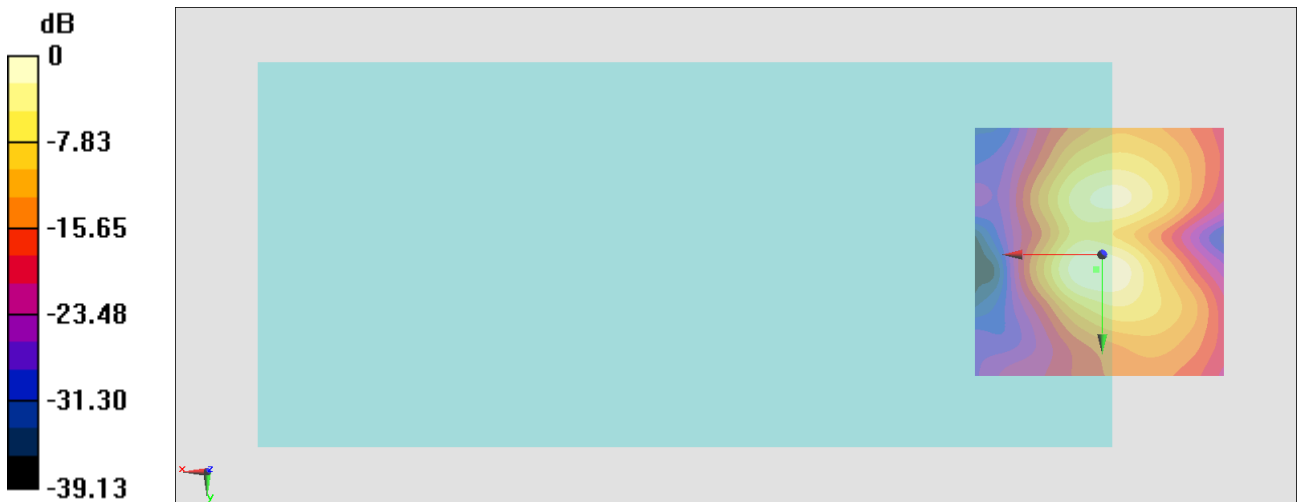
### General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

ABM1/ABM2 = 32.70 dB

ABM1 comp = -12.51 dBA/m

Location: 1.2, 3, 3.7 mm



0 dB = 43.17 = 32.70 dB