

**GSM 850**

Communication System: UID 0, @GPRS-FDD (TDMA, GMSK, 1 slot) (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.00018

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM 850 Voice Ch. 190\_ANT 2/z (axial) wideband at best S/N 3/ABM Freq Resp(x,y,z,f) (1x1x1):** Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

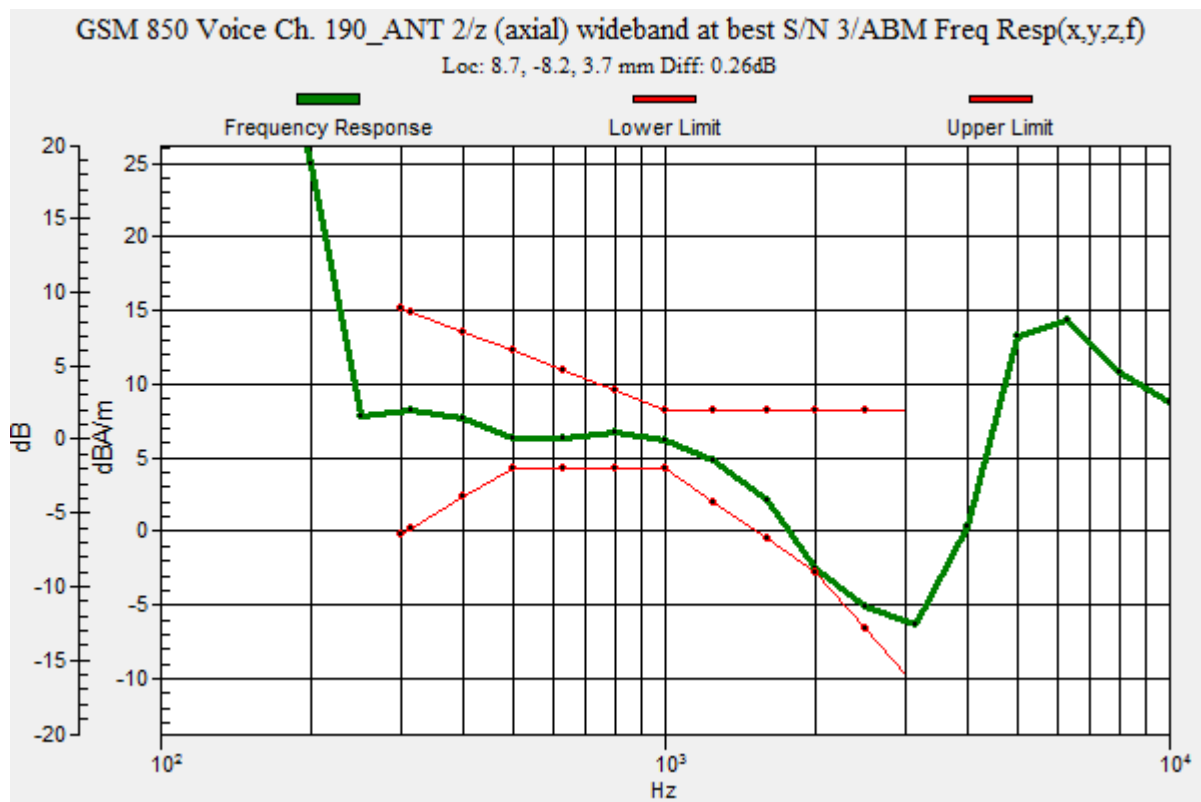
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| Category T2 | 10 dB to 20 dB                                                                     |
| Category T3 | 20 dB to 30 dB                                                                     |
| Category T4 | > 30 dB                                                                            |

**Cursor:**

Diff = 0.26 dB

BWC Factor = 10.80 dB

Location: 8.7, -8.2, 3.7 mm



## GSM 850

Communication System: UID 0, @GPRS-FDD (TDMA, GMSK, 1 slot) (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.00018

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM 850 Voice Ch. 190\_ANT 2/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

### Cursor:

ABM1/ABM2 = 34.50 dB

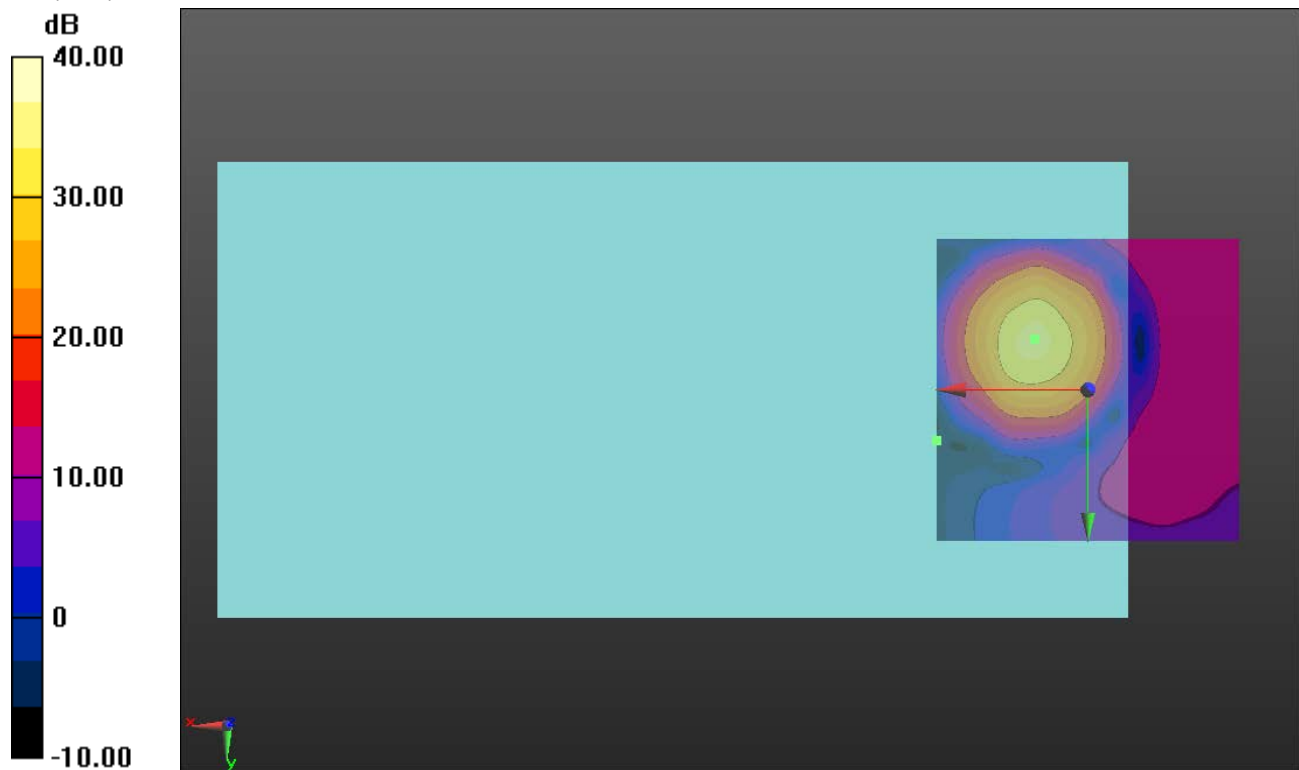
ABM1 comp = 5.86 dBA/m

BWC Factor = 0.16 dB

Location: 8.8, -8.3, 3.7 mm

ABM2 = -21.77 dBA/m

Location: 25, 8.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

## GSM 850

Communication System: UID 0, @GPRS-FDD (TDMA, GMSK, 1 slot) (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.00018

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM 850 Voice Ch. 190\_ANT 2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

#### Cursor:

ABM1/ABM2 = 39.72 dB

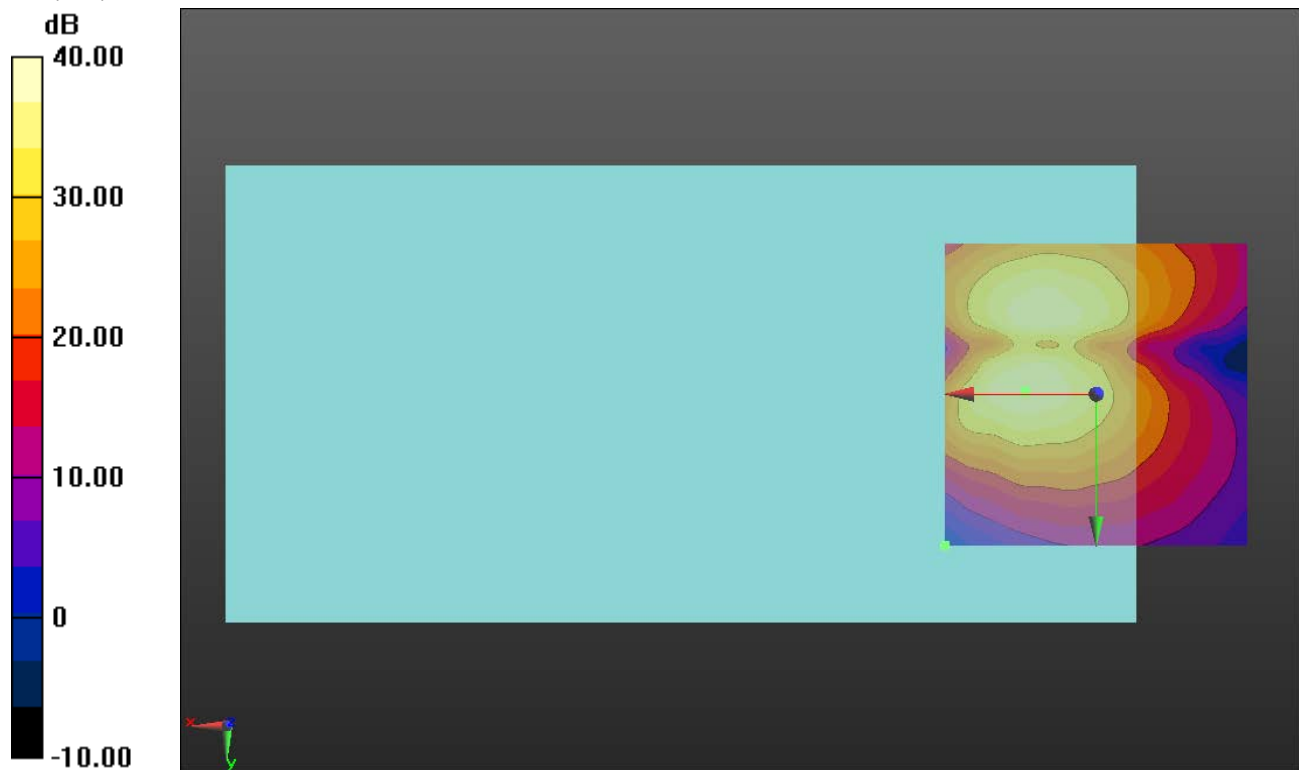
ABM1 comp = -3.03 dBA/m

BWC Factor = 0.16 dB

Location: 11.7, -0.4, 3.7 mm

ABM2 = -26.16 dBA/m

Location: 25, 25, 3.7 mm



0 dB = 1.000 = 0.00 dB

**GSM 1900**

Communication System: UID 0, @GPRS-FDD (TDMA, GMSK, 1 slot) (0); Frequency: 1880 MHz; Duty Cycle: 1:8.00018

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM 1900 Voice Ch. 661\_ANT 2/z (axial) wideband at best S/N 3/ABM Freq Resp(x,y,z,f) (1x1x1):** Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

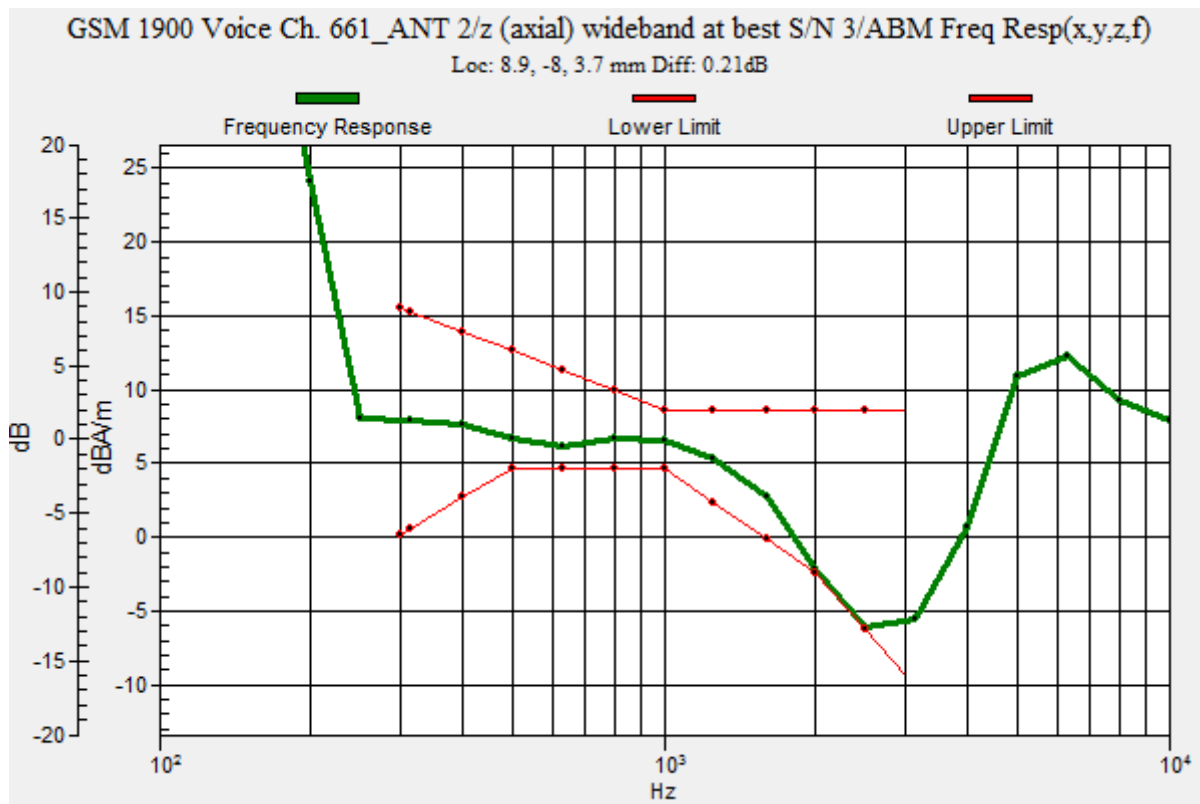
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| Category T2 | 10 dB to 20 dB                                                                     |
| Category T3 | 20 dB to 30 dB                                                                     |
| Category T4 | > 30 dB                                                                            |

**Cursor:**

Diff = 0.21 dB

BWC Factor = 10.80 dB

Location: 8.9, -8, 3.7 mm



## GSM 1900

Communication System: UID 0, @GPRS-FDD (TDMA, GMSK, 1 slot) (0); Frequency: 1880 MHz; Duty Cycle: 1:8.00018

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM 1900 Voice Ch. 661\_ANT 2/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

### Cursor:

ABM1/ABM2 = 36.60 dB

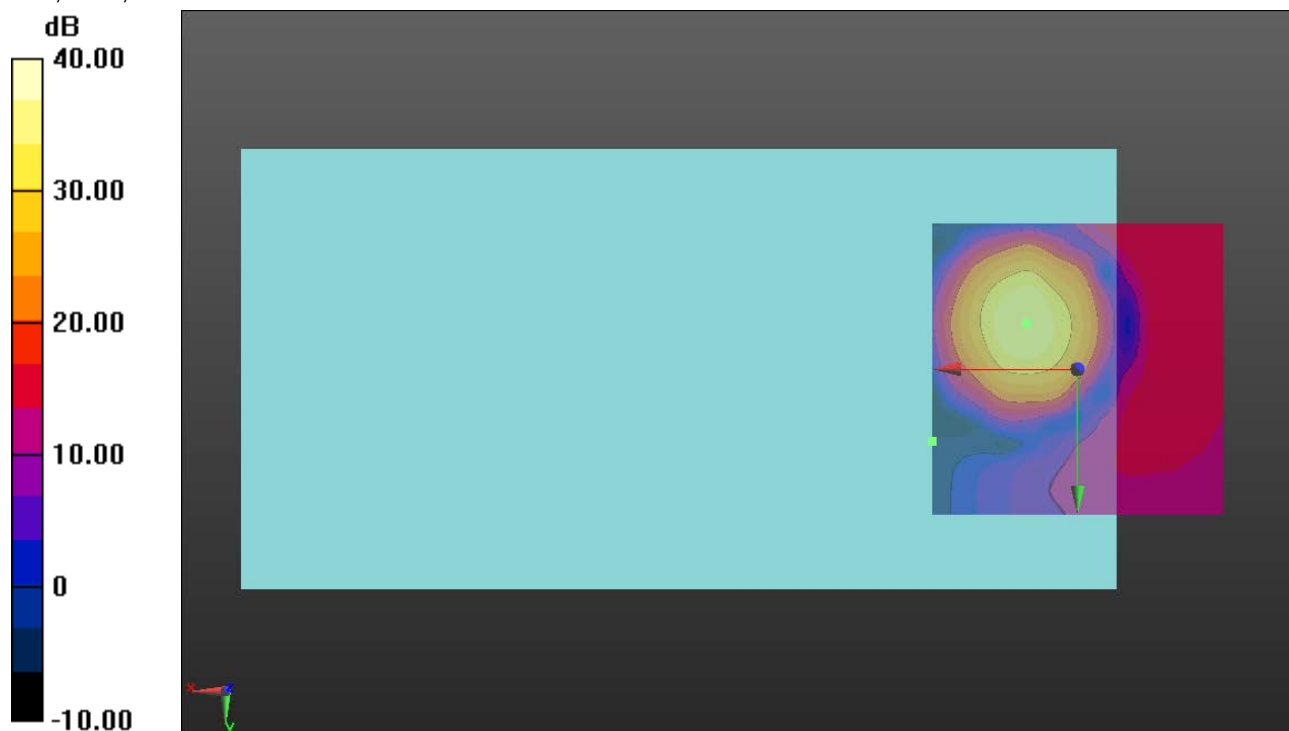
ABM1 comp = 5.60 dBA/m

BWC Factor = 0.16 dB

Location: 8.8, -7.9, 3.7 mm

ABM2 = -24.57 dBA/m

Location: 25, 12.5, 3.7 mm



0 dB = 1.000 = 0.00 dB

## GSM 1900

Communication System: UID 0, @GPRS-FDD (TDMA, GMSK, 1 slot) (0); Frequency: 1880 MHz; Duty Cycle: 1:8.00018

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM 1900 Voice Ch. 661\_ANT 2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

#### Cursor:

ABM1/ABM2 = 41.55 dB

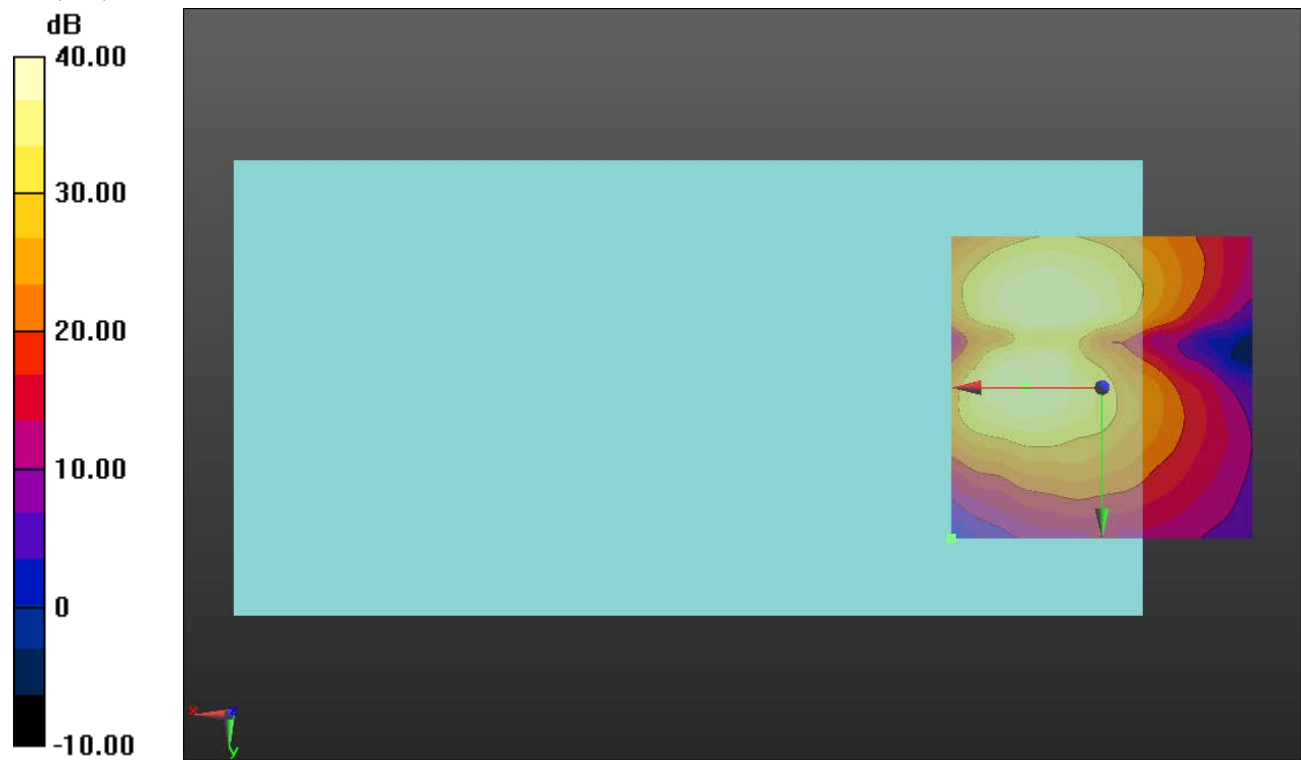
ABM1 comp = -2.97 dBA/m

BWC Factor = 0.16 dB

Location: 12.5, 0, 3.7 mm

ABM2 = -29.25 dBA/m

Location: 25, 25, 3.7 mm



0 dB = 1.000 = 0.00 dB

**WCMDA Band II**

Communication System: UID 0, @UMTS-FDD (WCDMA) (0); Frequency: 1880 MHz;Duty Cycle: 1:1

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band II Voice Ch. 9400  
AMR-NB 4.75kbps\_ANT 1/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

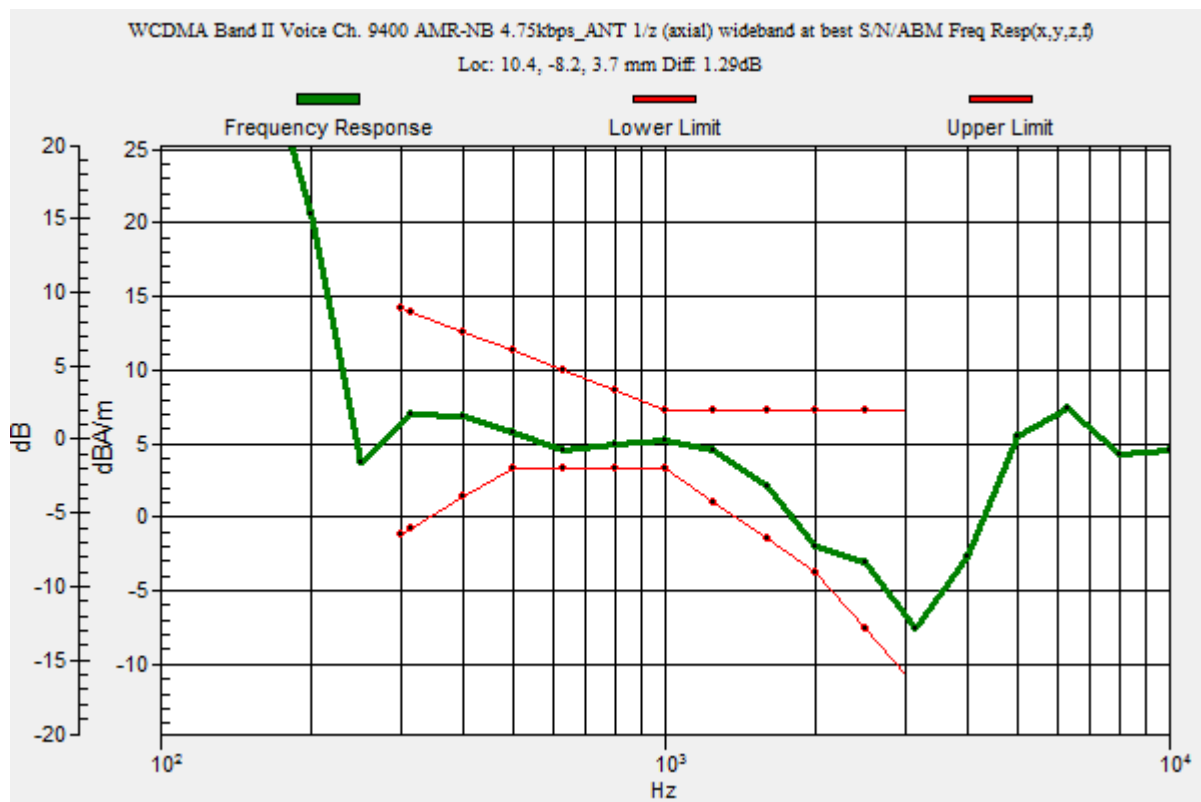
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| Category T2 | 10 dB to 20 dB                                                                     |
| Category T3 | 20 dB to 30 dB                                                                     |
| Category T4 | > 30 dB                                                                            |

**Cursor:**

Diff = 1.29 dB

BWC Factor = 10.80 dB

Location: 10.4, -8.2, 3.7 mm



## WCMDA Band II

Communication System: UID 0, @UMTS-FDD (WCDMA) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band II Voice Ch. 9400 AMR-NB 4.75kbps\_ANT 1/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z)

**(121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

#### Cursor:

ABM1/ABM2 = 43.42 dB

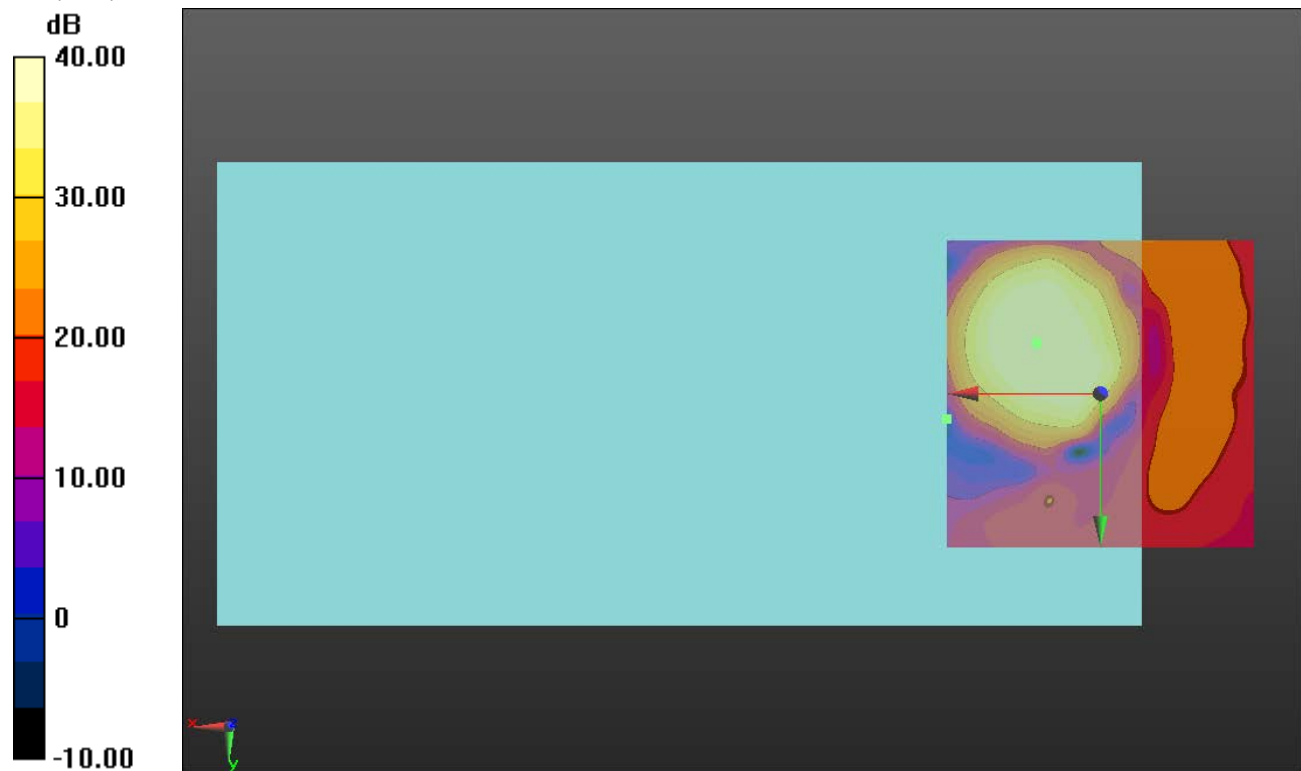
ABM1 comp = 5.51 dBA/m

BWC Factor = 0.16 dB

Location: 10.4, -8.3, 3.7 mm

ABM2 = -36.45 dBA/m

Location: 25, 4.2, 3.7 mm



## WCMDA Band II

Communication System: UID 0, @UMTS-FDD (WCDMA) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band II Voice Ch. 9400 AMR-NB 4.75kbps\_ANT 1/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

#### Cursor:

ABM1/ABM2 = 42.75 dB

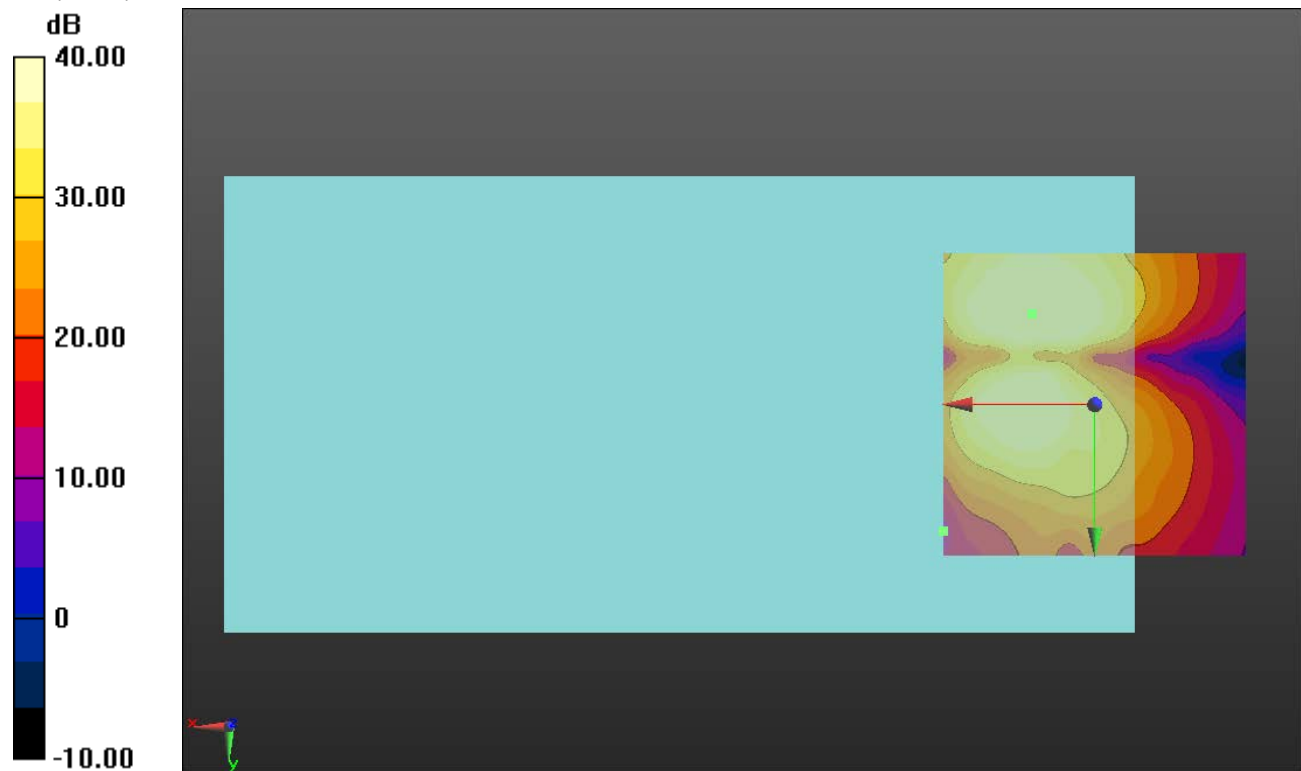
ABM1 comp = -2.88 dBA/m

BWC Factor = 0.16 dB

Location: 10.4, -15, 3.7 mm

ABM2 = -34.86 dBA/m

Location: 25, 20.8, 3.7 mm



0 dB = 1.000 = 0.00 dB

**WCMDA Band IV**

Communication System: UID 0, @UMTS-FDD (WCDMA) (0); Frequency: 1732.6 MHz;Duty Cycle: 1:1

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band IV Voice Ch. 1413  
AMR-NB 4.75kbps\_ANT 1/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

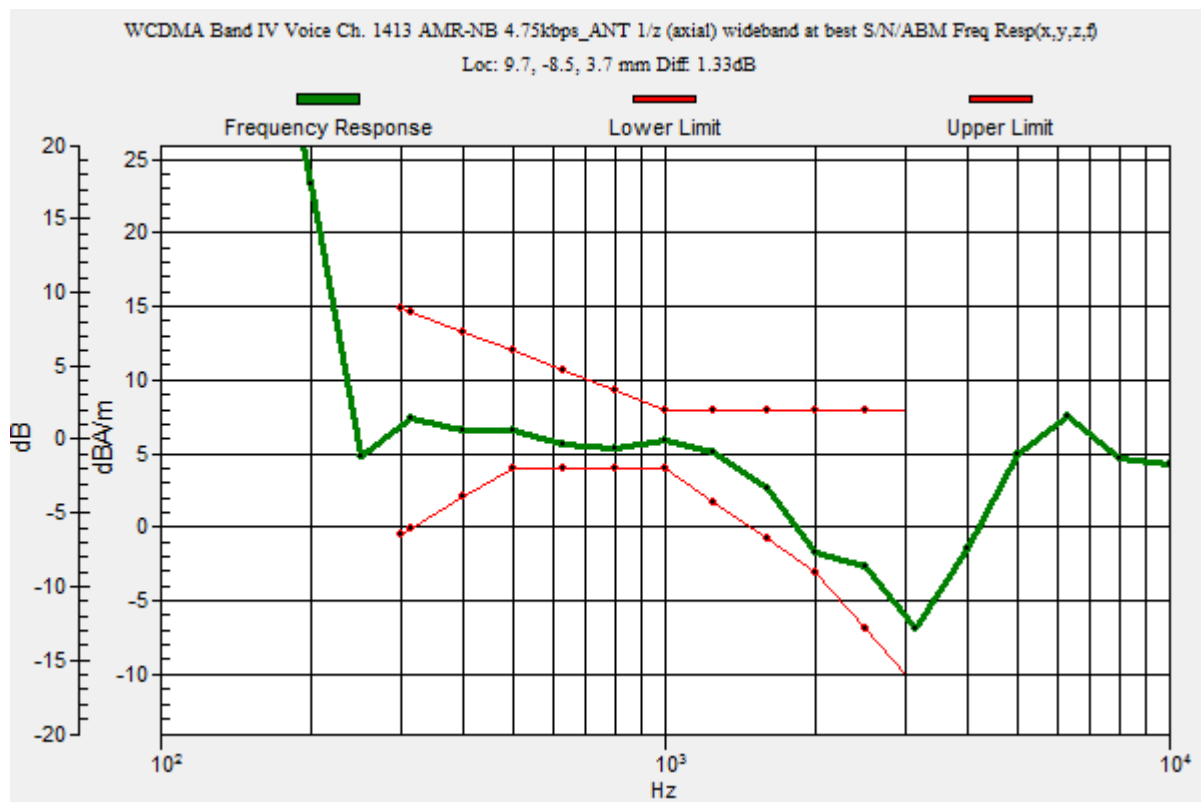
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| Category T2 | 10 dB to 20 dB                                                                     |
| Category T3 | 20 dB to 30 dB                                                                     |
| Category T4 | > 30 dB                                                                            |

**Cursor:**

Diff = 1.33 dB

BWC Factor = 10.80 dB

Location: 9.7, -8.5, 3.7 mm



## WCMDA Band IV

Communication System: UID 0, @UMTS-FDD (WCDMA) (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band IV Voice Ch. 1413 AMR-NB 4.75kbps\_ANT 1/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z)

**(121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

#### Cursor:

ABM1/ABM2 = 43.35 dB

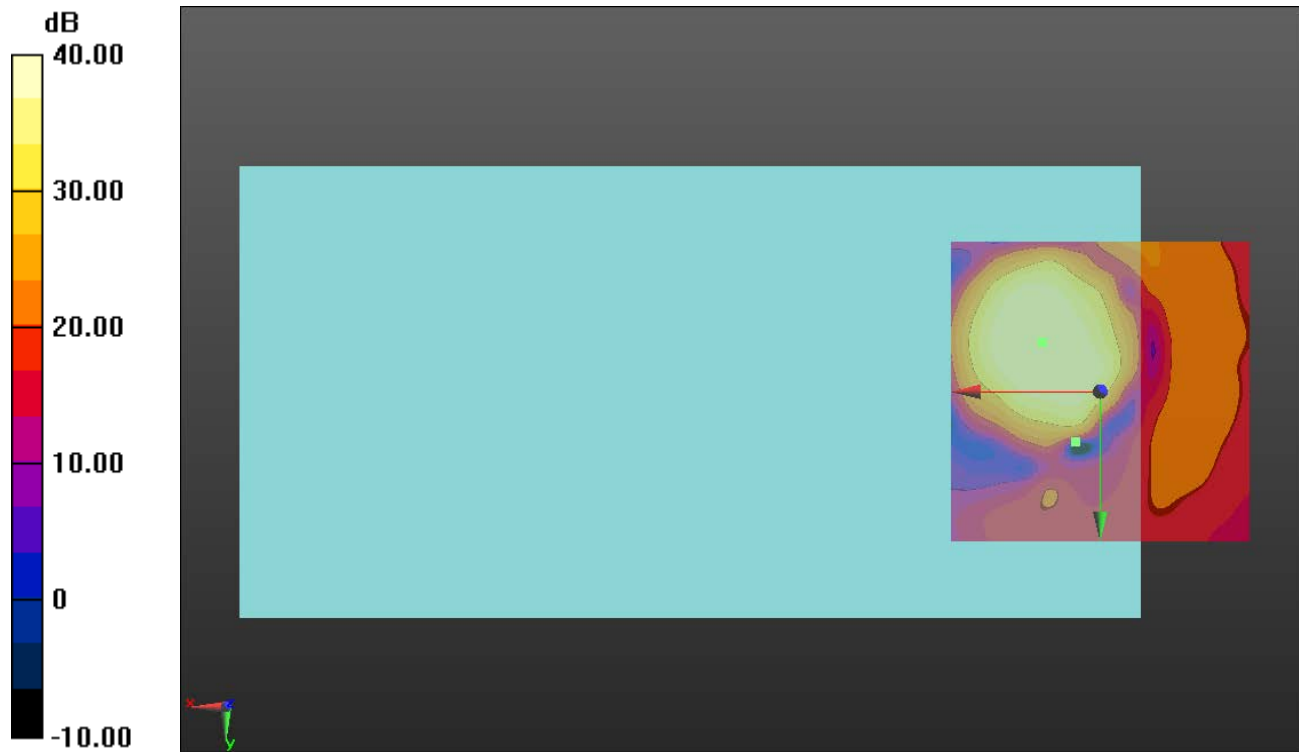
ABM1 comp = 5.52 dBA/m

BWC Factor = 0.16 dB

Location: 9.6, -8.3, 3.7 mm

ABM2 = -34.98 dBA/m

Location: 4.2, 8.3, 3.7 mm



## WCMDA Band IV

Communication System: UID 0, @UMTS-FDD (WCDMA) (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band IV Voice Ch. 1413  
AMR-NB 4.75kbps\_ANT 1/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z)  
(121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

### Cursor:

ABM1/ABM2 = 42.74 dB

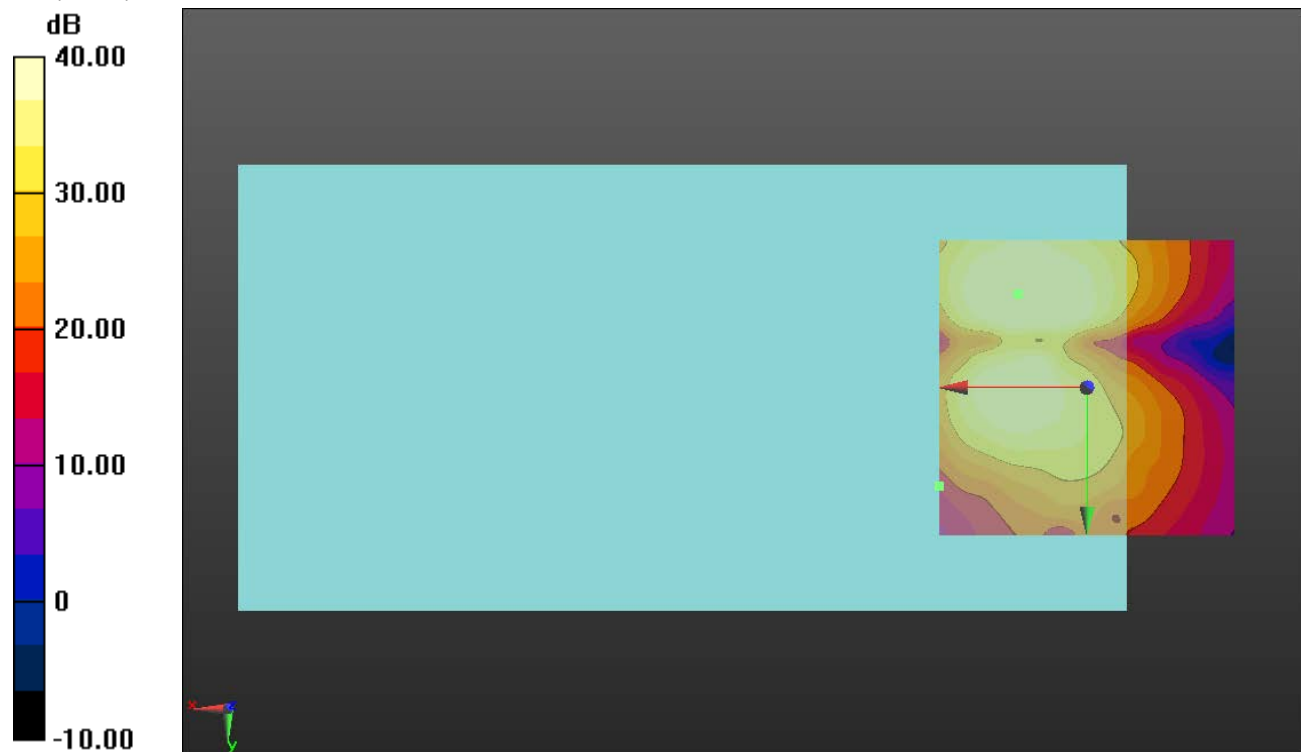
ABM1 comp = -2.65 dBA/m

BWC Factor = 0.16 dB

Location: 11.7, -15.8, 3.7 mm

ABM2 = -37.89 dBA/m

Location: 25, 16.7, 3.7 mm



0 dB = 1.000 = 0.00 dB

**WCMDA Band V**

Communication System: UID 0, @UMTS-FDD (WCDMA) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band V Voice Ch. 4183  
AMR-NB 4.75kbps\_ANT 1/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

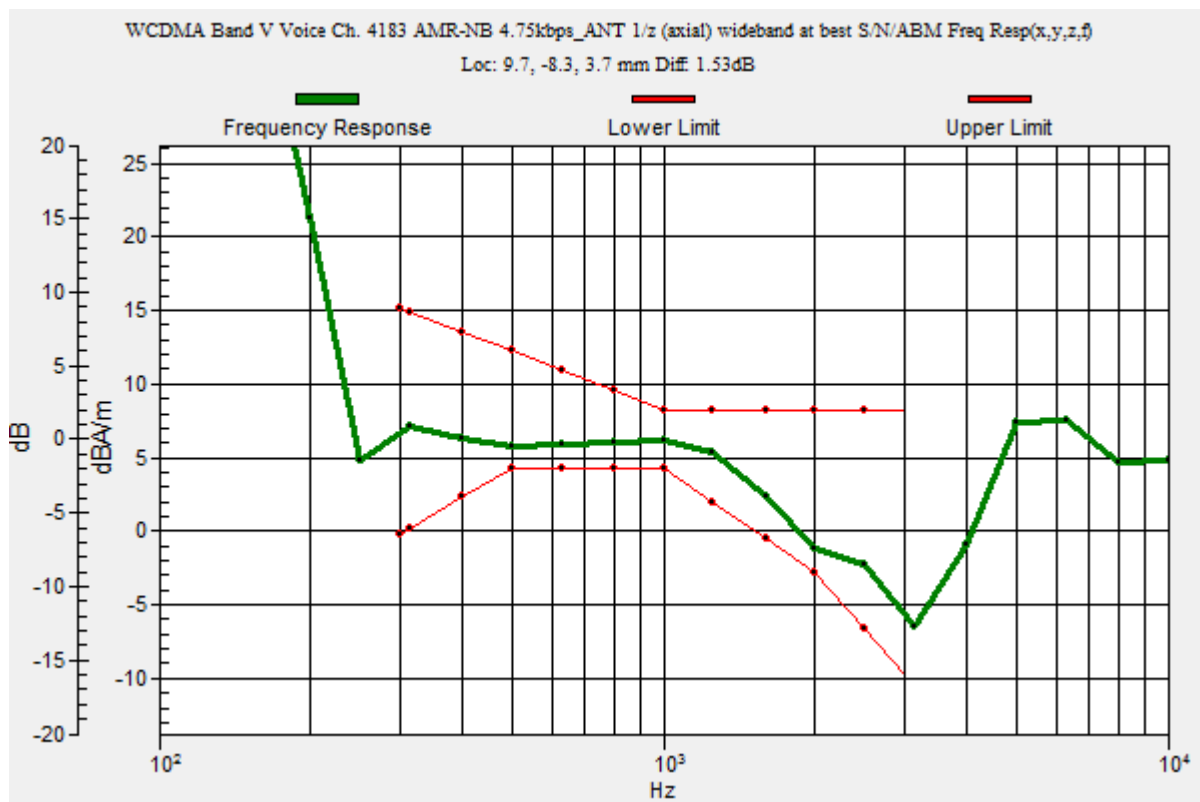
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| Category T2 | 10 dB to 20 dB                                                                     |
| Category T3 | 20 dB to 30 dB                                                                     |
| Category T4 | > 30 dB                                                                            |

**Cursor:**

Diff = 1.53 dB

BWC Factor = 10.80 dB

Location: 9.7, -8.3, 3.7 mm



## WCMDA Band V

Communication System: UID 0, @UMTS-FDD (WCDMA) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band V Voice Ch. 4183 AMR-NB 4.75kbps\_ANT 1/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z)

**(121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

#### Cursor:

ABM1/ABM2 = 43.69 dB

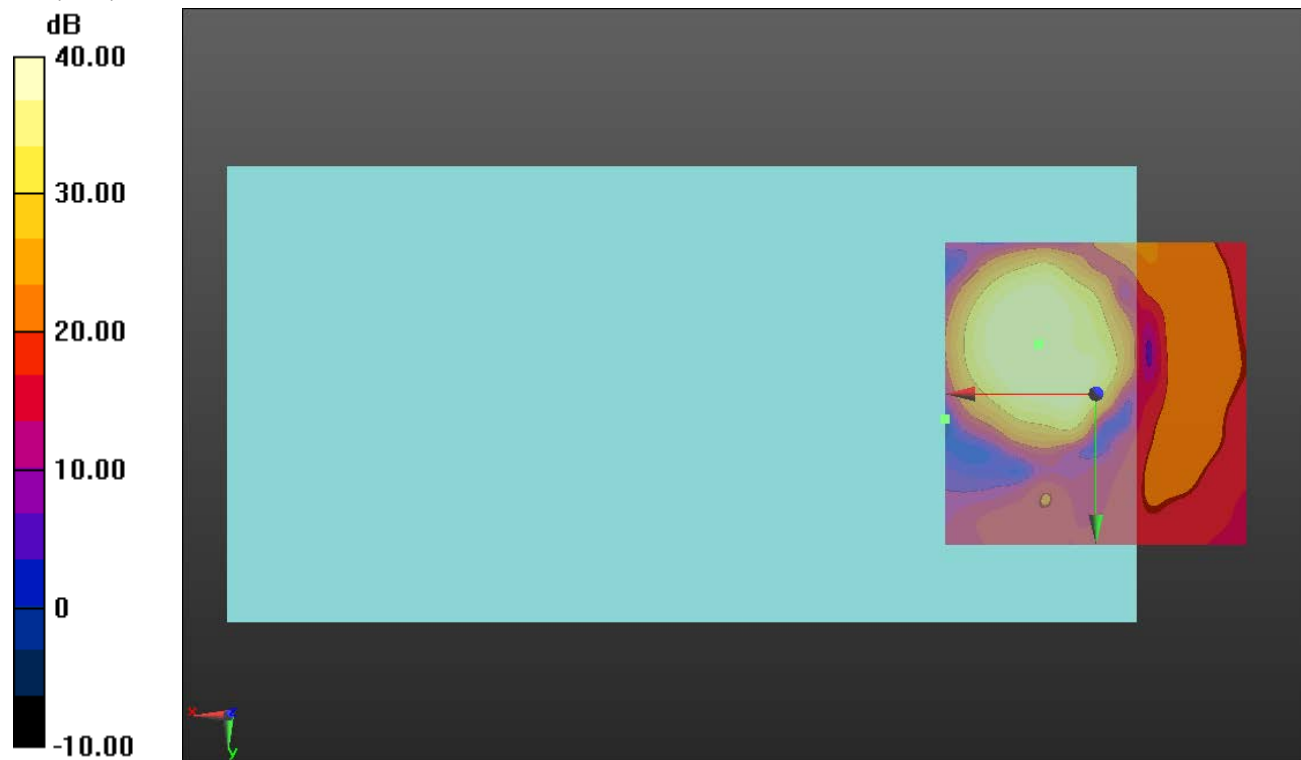
ABM1 comp = 5.62 dBA/m

BWC Factor = 0.16 dB

Location: 9.6, -8.3, 3.7 mm

ABM2 = -36.11 dBA/m

Location: 25, 4.2, 3.7 mm



## WCMDA Band V

Communication System: UID 0, @UMTS-FDD (WCDMA) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band V Voice Ch. 4183 AMR-NB 4.75kbps\_ANT 1/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

#### Cursor:

ABM1/ABM2 = 42.97 dB

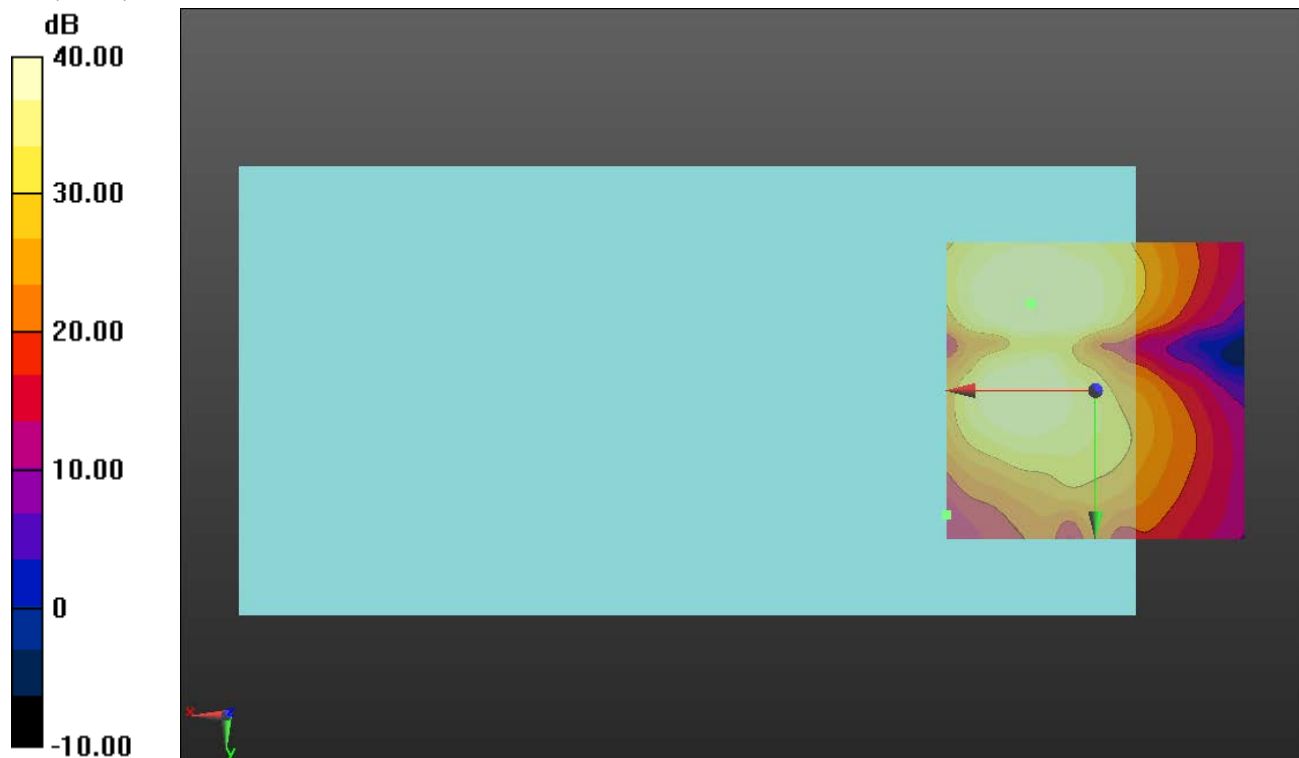
ABM1 comp = -2.73 dBA/m

BWC Factor = 0.16 dB

Location: 10.8, -14.6, 3.7 mm

ABM2 = -37.96 dBA/m

Location: 25, 20.8, 3.7 mm



0 dB = 1.000 = 0.00 dB

**CDMA BC0**

Communication System: UID 0, @CDMA2000 (0); Frequency: 836.52 MHz; Duty Cycle: 1:1

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/CDMA2000 BC0 Voice Ch. 384 RC1/SO68 Full Fr\_ANT 1/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 37.45

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

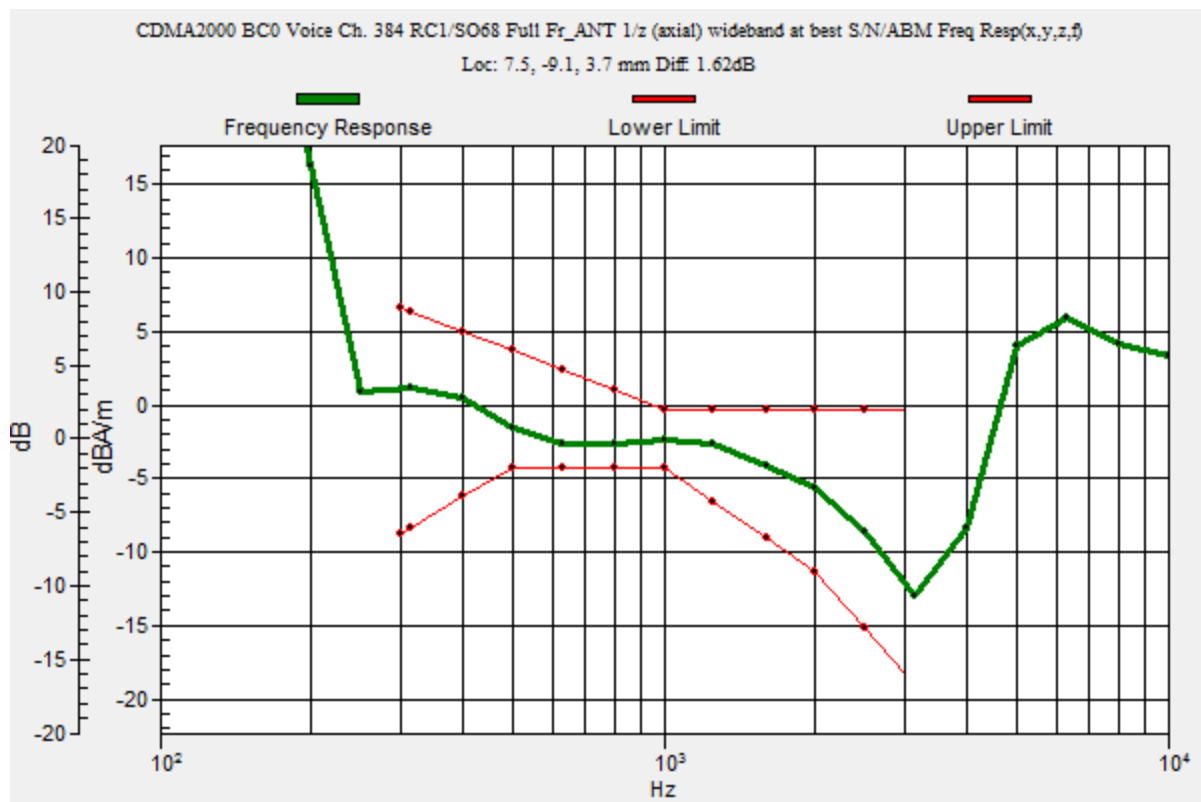
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| Category T2 | 10 dB to 20 dB                                                                     |
| Category T3 | 20 dB to 30 dB                                                                     |
| Category T4 | > 30 dB                                                                            |

**Cursor:**

Diff = 1.62 dB

BWC Factor = 10.80 dB

Location: 7.5, -9.1, 3.7 mm



## CDMA BC0

Communication System: UID 0, @CDMA2000 (0); Frequency: 836.52 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/CDMA2000 BC0 Voice Ch. 384 RC1/SO68 Full Fr\_ANT 1/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z)

**(121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 19.1

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

#### Cursor:

ABM1/ABM2 = 37.15 dB

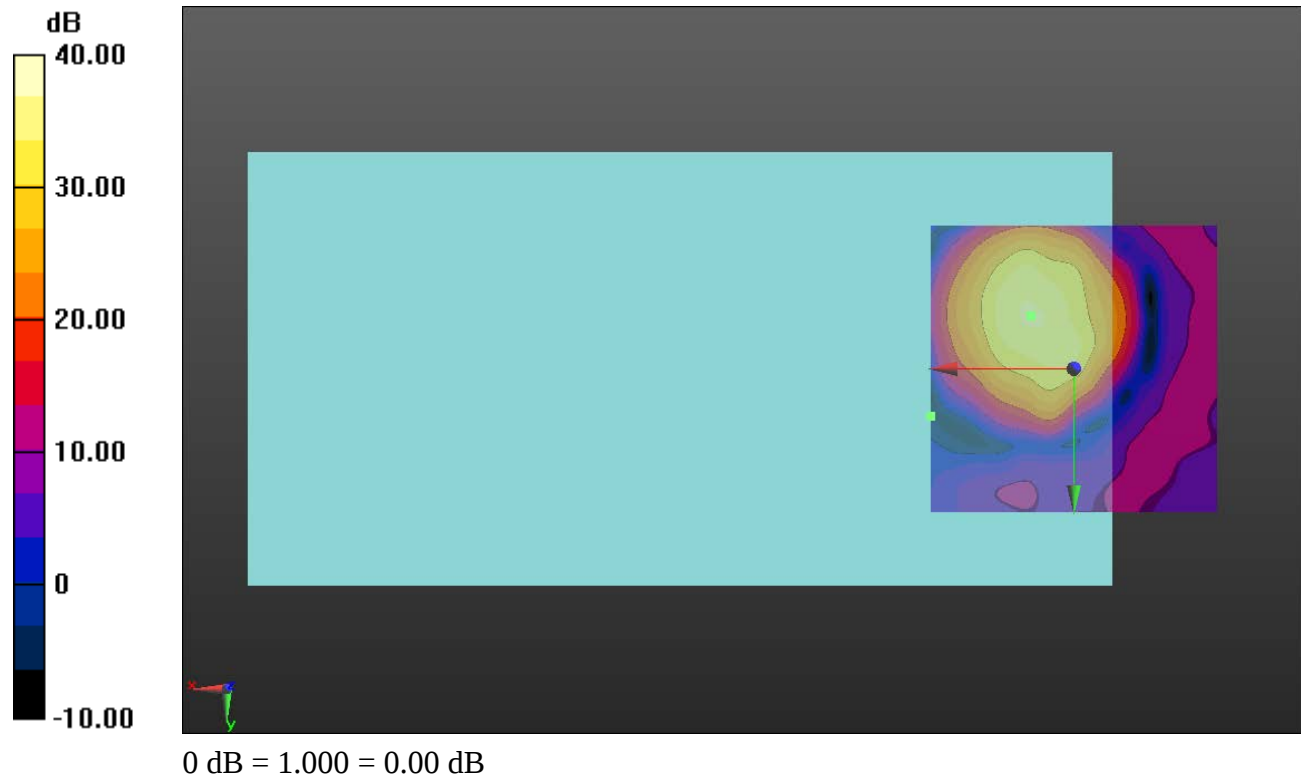
ABM1 comp = -3.19 dBA/m

BWC Factor = 0.16 dB

Location: 7.5, -9.2, 3.7 mm

ABM2 = -37.84 dBA/m

Location: 25, 8.3, 3.7 mm



## CDMA BC0

Communication System: UID 0, @CDMA2000 (0); Frequency: 836.52 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/CDMA2000 BC0 Voice Ch. 384 RC1/SO68 Full Fr\_ANT 1/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 19.1

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

### Cursor:

ABM1/ABM2 = 36.73 dB

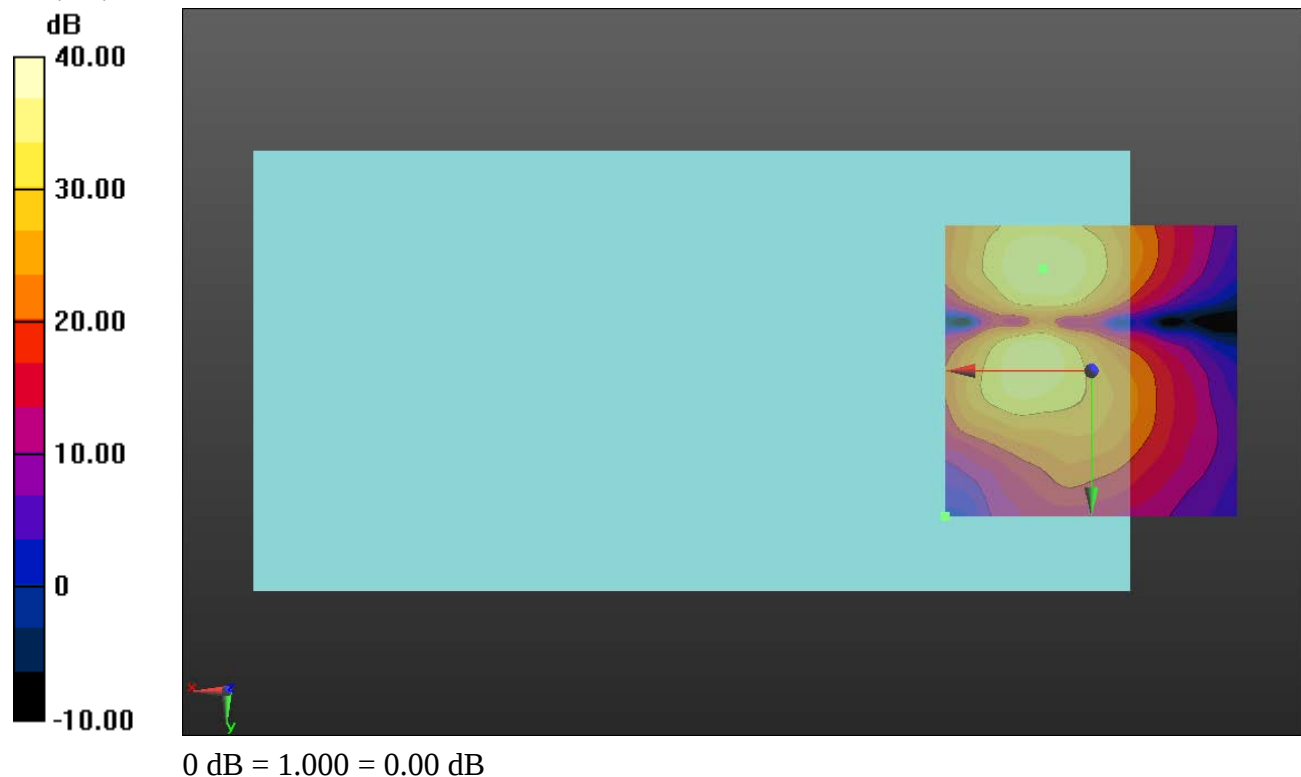
ABM1 comp = -7.93 dBA/m

BWC Factor = 0.16 dB

Location: 8.3, -17.5, 3.7 mm

ABM2 = -35.08 dBA/m

Location: 25, 25, 3.7 mm



**CDMA BC1**

Communication System: UID 0, @CDMA2000 (0); Frequency: 1880 MHz;Duty Cycle: 1:1

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/CDMA2000 BC1 Voice Ch. 600 RC1/SO68 Full Fr\_ANT 1/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 37.45

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

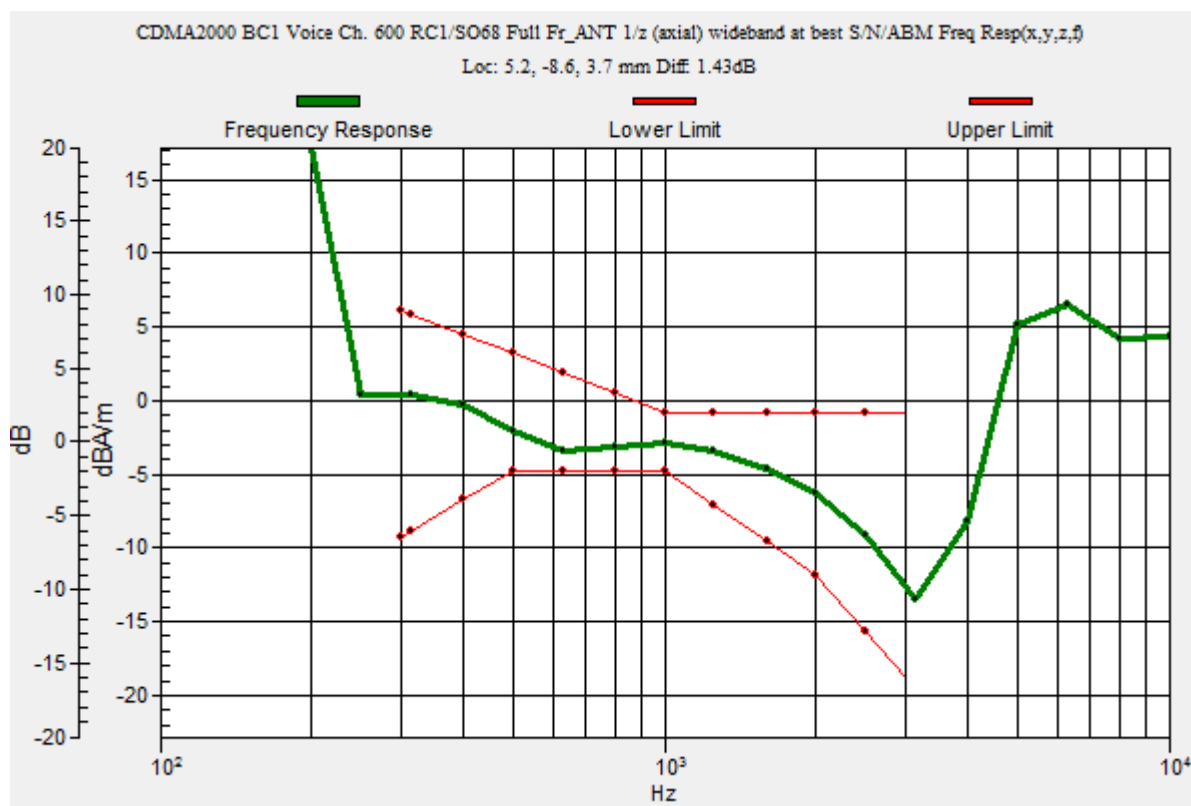
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| Category T2 | 10 dB to 20 dB                                                                     |
| Category T3 | 20 dB to 30 dB                                                                     |
| Category T4 | > 30 dB                                                                            |

**Cursor:**

Diff = 1.43 dB

BWC Factor = 10.80 dB

Location: 5.2, -8.6, 3.7 mm



## CDMA BC1

Communication System: UID 0, @CDMA2000 (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/CDMA2000 BC1 Voice Ch. 600 RC1/SO68 Full Fr\_ANT 1/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z)

**(121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 19.1

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

#### Cursor:

ABM1/ABM2 = 35.45 dB

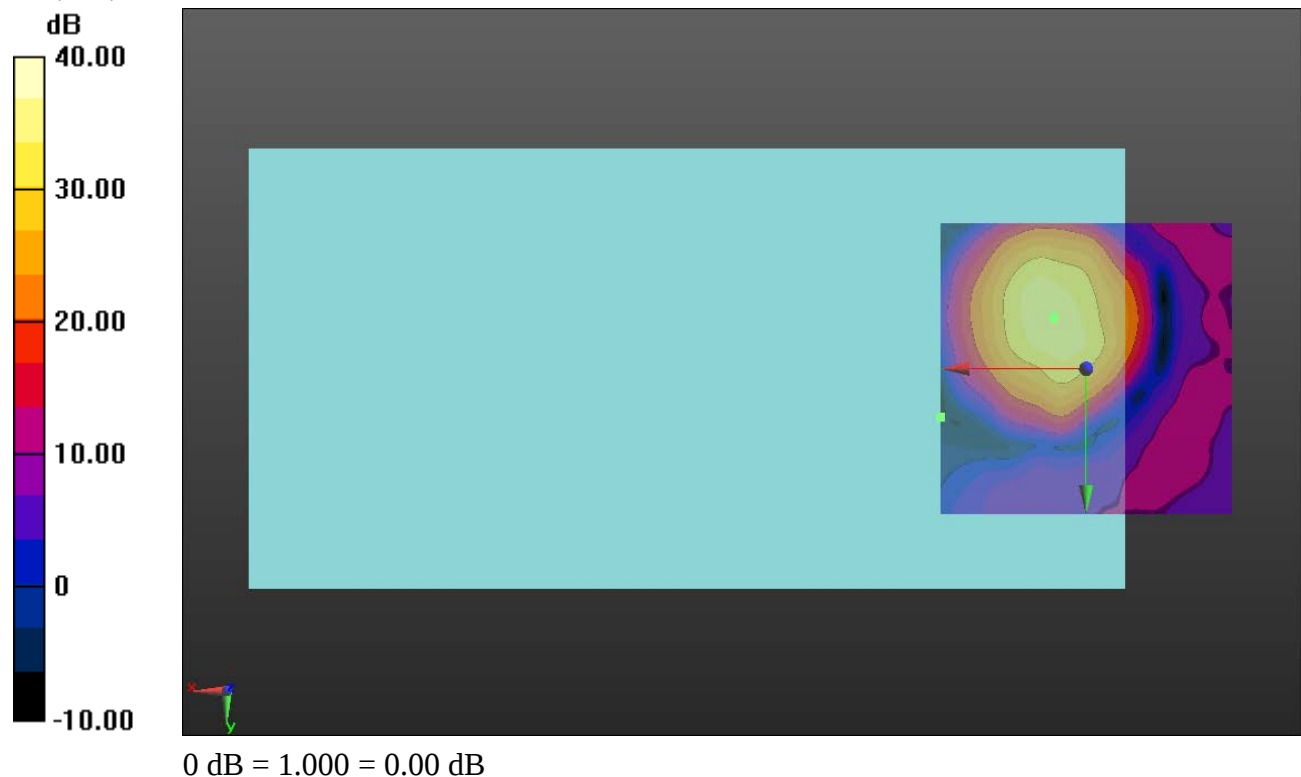
ABM1 comp = -4.19 dBA/m

BWC Factor = 0.16 dB

Location: 5.4, -8.8, 3.7 mm

ABM2 = -33.40 dBA/m

Location: 25, 8.3, 3.7 mm



## CDMA BC1

Communication System: UID 0, @CDMA2000 (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/CDMA2000 BC1 Voice Ch. 600 RC1/SO68 Full Fr\_ANT 1/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 19.1

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

### Cursor:

ABM1/ABM2 = 35.64 dB

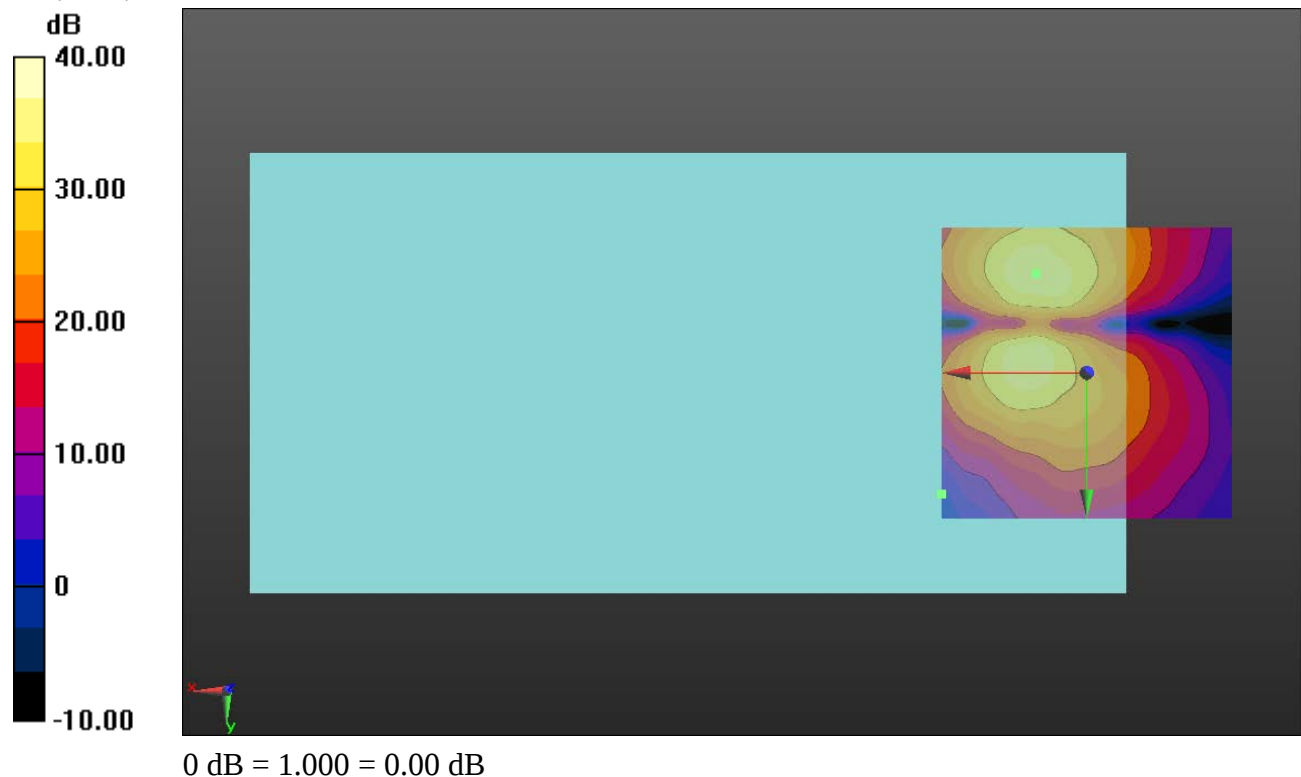
ABM1 comp = -8.27 dBA/m

BWC Factor = 0.16 dB

Location: 8.8, -17.1, 3.7 mm

ABM2 = -33.37 dBA/m

Location: 25, 20.8, 3.7 mm



**CDMA BC10**

Communication System: UID 0, @CDMA2000 (0); Frequency: 820 MHz; Duty Cycle: 1:1

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/CDMA2000 BC10 Voice Ch. 560 RC1/SO68 Full Fr\_ANT 1/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 37.45

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

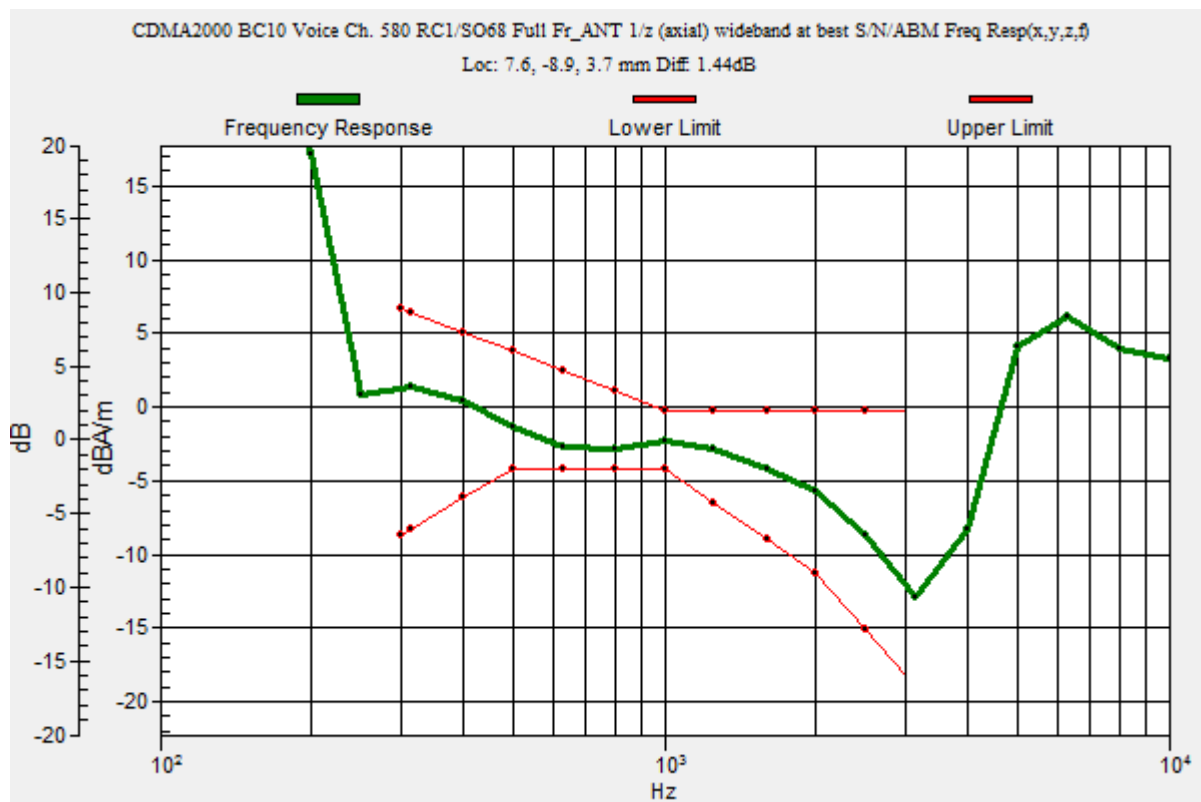
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| Category T2 | 10 dB to 20 dB                                                                     |
| Category T3 | 20 dB to 30 dB                                                                     |
| Category T4 | > 30 dB                                                                            |

**Cursor:**

Diff = 1.44 dB

BWC Factor = 10.80 dB

Location: 7.6, -8.9, 3.7 mm



## CDMA BC10

Communication System: UID 0, @CDMA2000 (0); Frequency: 820 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/CDMA2000 BC10 Voice Ch. 560 RC1/SO68 Full Fr\_ANT 1/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z)

**(121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 19.1

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

#### Cursor:

ABM1/ABM2 = 36.96 dB

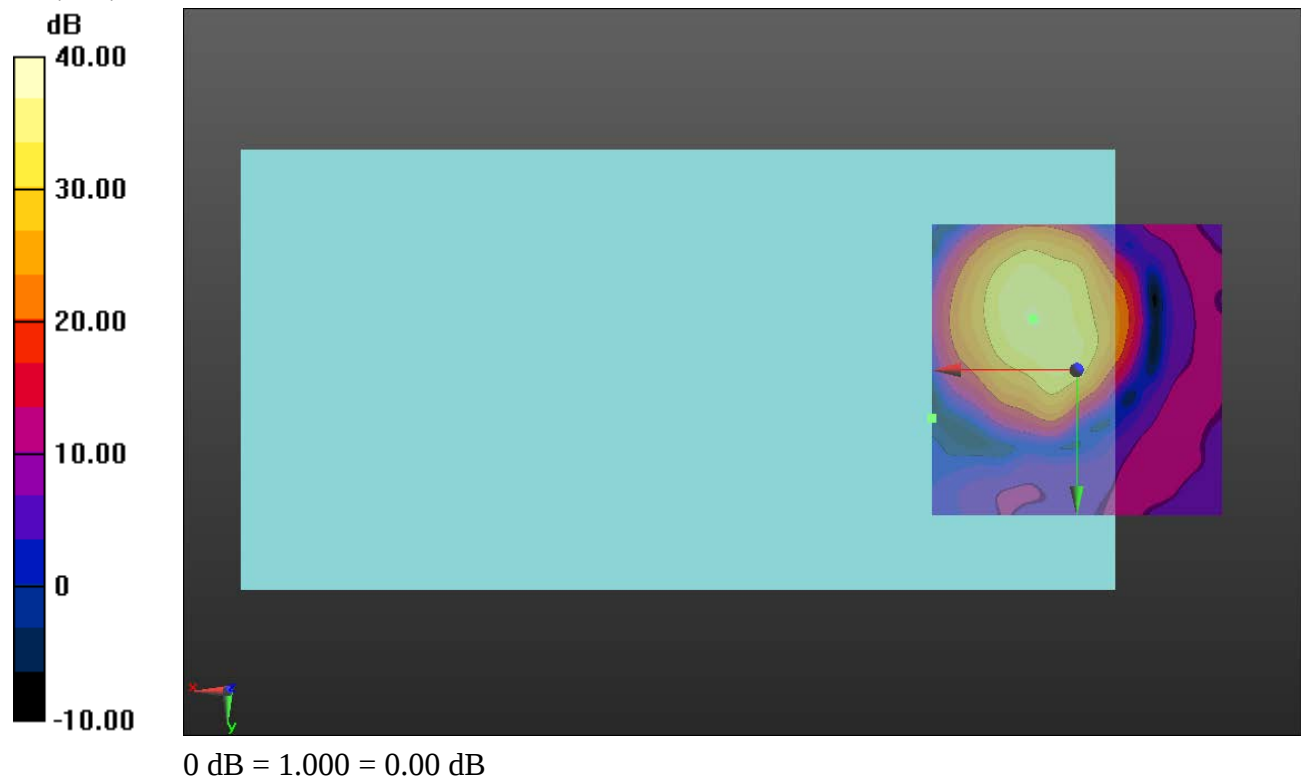
ABM1 comp = -3.35 dBA/m

BWC Factor = 0.16 dB

Location: 7.5, -8.8, 3.7 mm

ABM2 = -37.64 dBA/m

Location: 25, 8.3, 3.7 mm



## CDMA BC10

Communication System: UID 0, @CDMA2000 (0); Frequency: 820 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/CDMA2000 BC10 Voice Ch. 560 RC1/SO68 Full Fr\_ANT 1/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 19.1

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

### Cursor:

ABM1/ABM2 = 36.47 dB

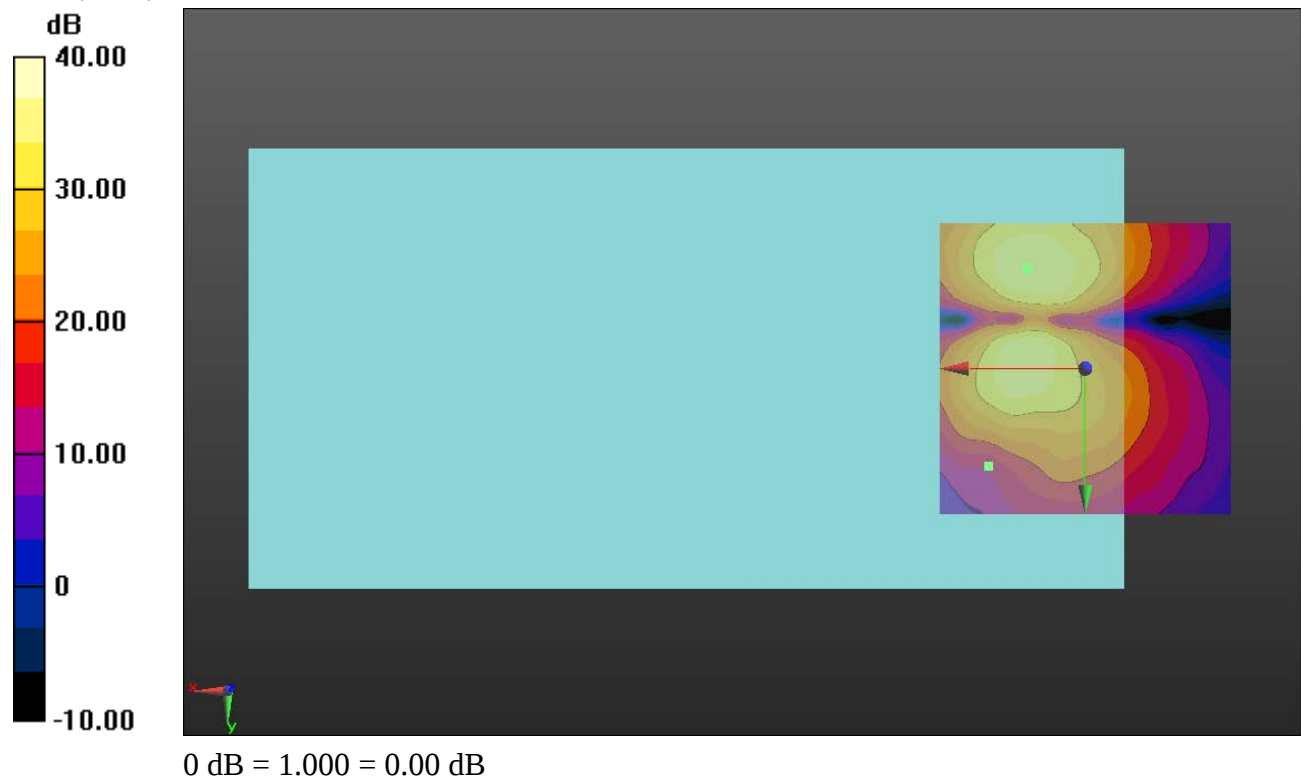
ABM1 comp = -8.14 dBA/m

BWC Factor = 0.16 dB

Location: 10, -17.1, 3.7 mm

ABM2 = -38.75 dBA/m

Location: 16.7, 16.7, 3.7 mm



## LTE Band 7

Communication System: UID 0, @LTE (FDD) (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 7 QPSK Ch. 21100 RB 50/49 20 MHz BW EVS 24.4kbps\_ANT 2/z (axial) wideband at best S/N/ABM Freq

**Resp(x,y,z,f) (1x1x1):** Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

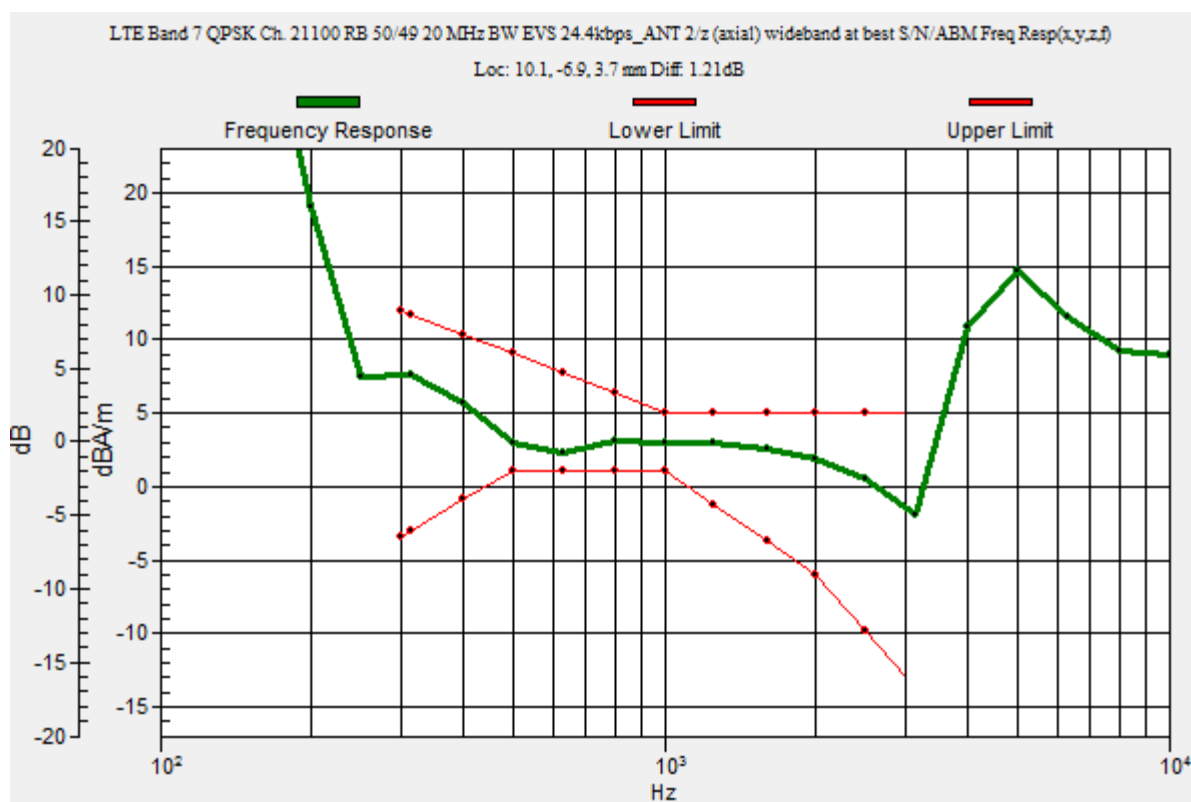
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| Category T2 | 10 dB to 20 dB                                                                     |
| Category T3 | 20 dB to 30 dB                                                                     |
| Category T4 | > 30 dB                                                                            |

#### Cursor:

Diff = 1.21 dB

BWC Factor = 10.80 dB

Location: 10.1, -6.9, 3.7 mm



## LTE Band 7

Communication System: UID 0, @LTE (FDD) (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 7 QPSK Ch. 21100 RB 50/49 20 MHz BW EVS 24.4kbps\_ANT 2/z (axial) 4.2mm 50 x 50/ABM Interpolated

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

#### Cursor:

ABM1/ABM2 = 40.01 dB

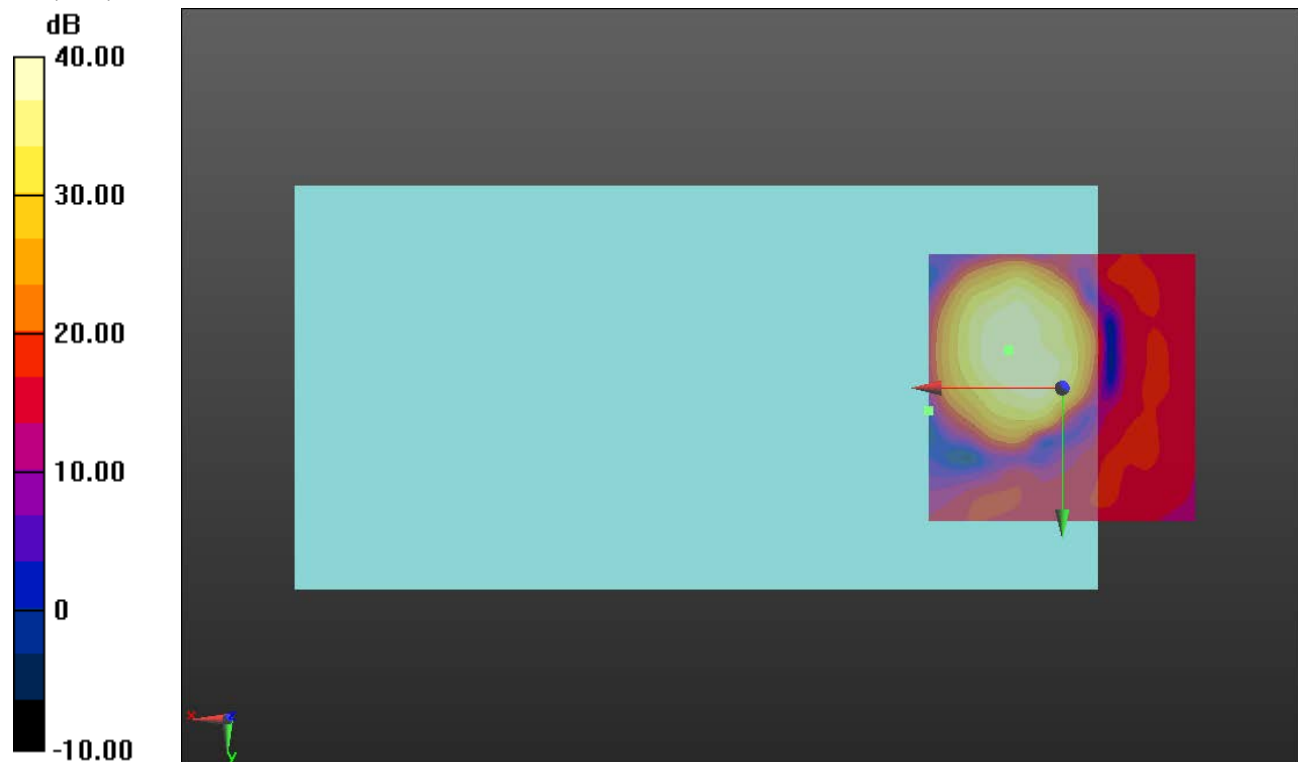
ABM1 comp = 3.65 dBA/m

BWC Factor = 0.16 dB

Location: 10, -7.1, 3.7 mm

ABM2 = -33.19 dBA/m

Location: 25, 4.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

## LTE Band 7

Communication System: UID 0, @LTE (FDD) (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 7 QPSK Ch. 21100 RB  
50/49 20 MHz BW EVS 24.4kbps\_ANT 2/y (transversal) 4.2mm 50 x 50/ABM Interpolated  
SNR(x,y,z) (121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

### Cursor:

ABM1/ABM2 = 36.77 dB

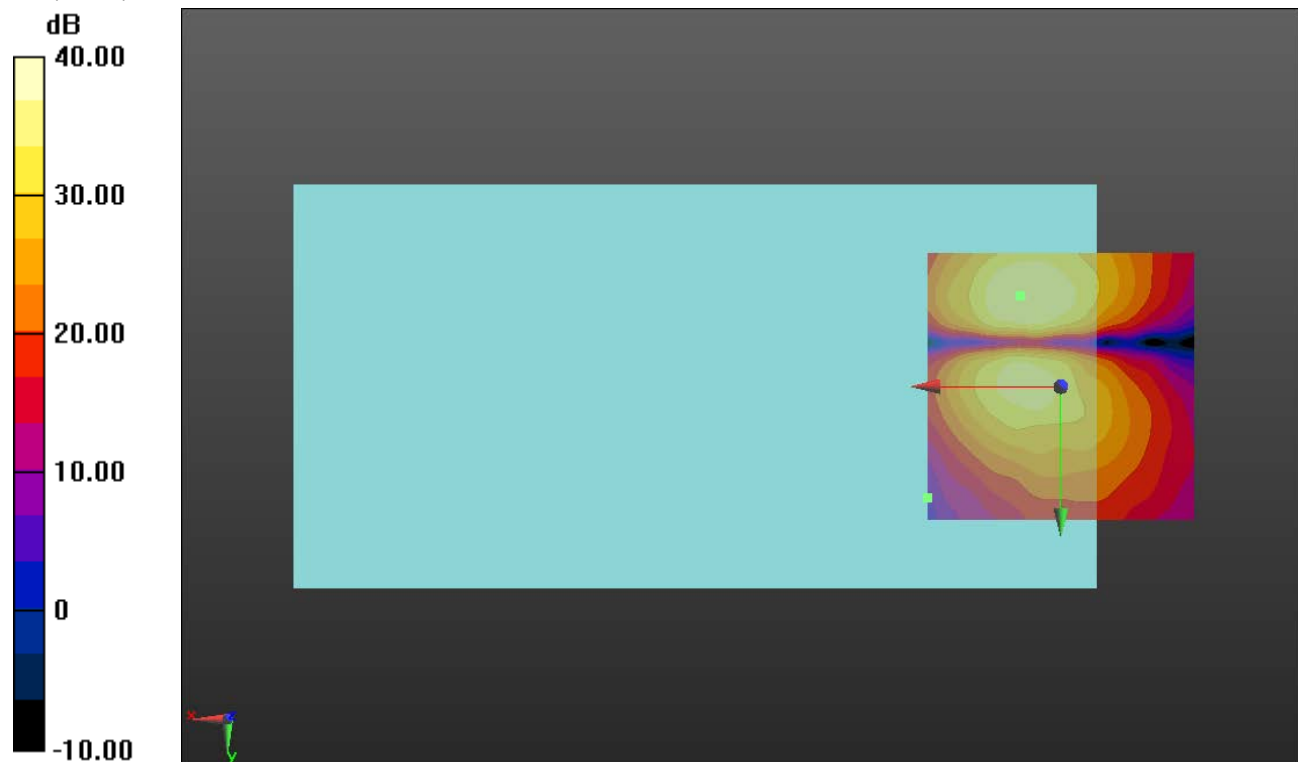
ABM1 comp = -7.37 dBA/m

BWC Factor = 0.16 dB

Location: 7.5, -17.1, 3.7 mm

ABM2 = -31.60 dBA/m

Location: 25, 20.8, 3.7 mm



## LTE Band 12

Communication System: UID 0, @LTE (FDD) (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 12 QPSK Ch. 23095 RB 25/25 10 MHz BW EVS 24.4kbps\_ANT 2/z (axial) wideband at best S/N/ABM Freq

**Resp(x,y,z,f) (1x1x1):** Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

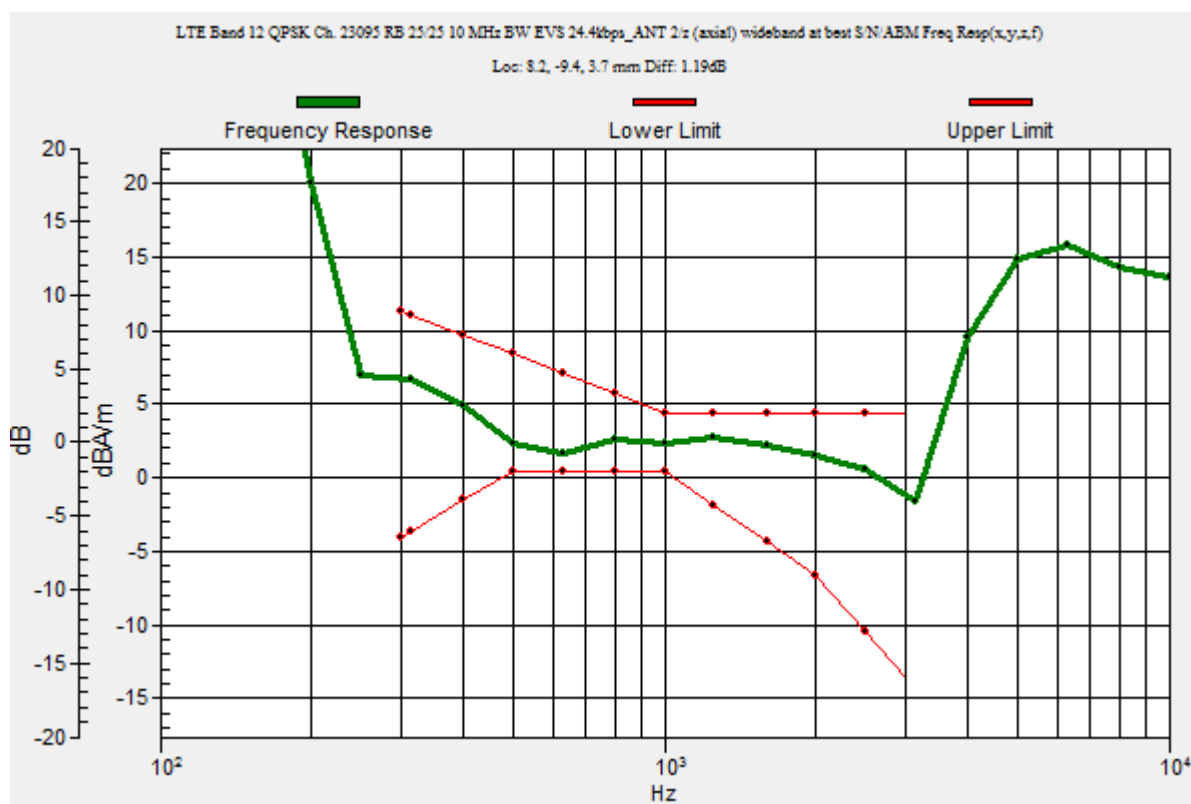
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| Category T2 | 10 dB to 20 dB                                                                     |
| Category T3 | 20 dB to 30 dB                                                                     |
| Category T4 | > 30 dB                                                                            |

#### Cursor:

Diff = 1.19 dB

BWC Factor = 10.80 dB

Location: 8.2, -9.4, 3.7 mm



## LTE Band 12

Communication System: UID 0, @LTE (FDD) (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 12 QPSK Ch. 23095 RB 25/25 10 MHz BW EVS 24.4kbps\_ANT 2/z (axial) 4.2mm 50 x 50/ABM Interpolated

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

#### Cursor:

ABM1/ABM2 = 42.77 dB

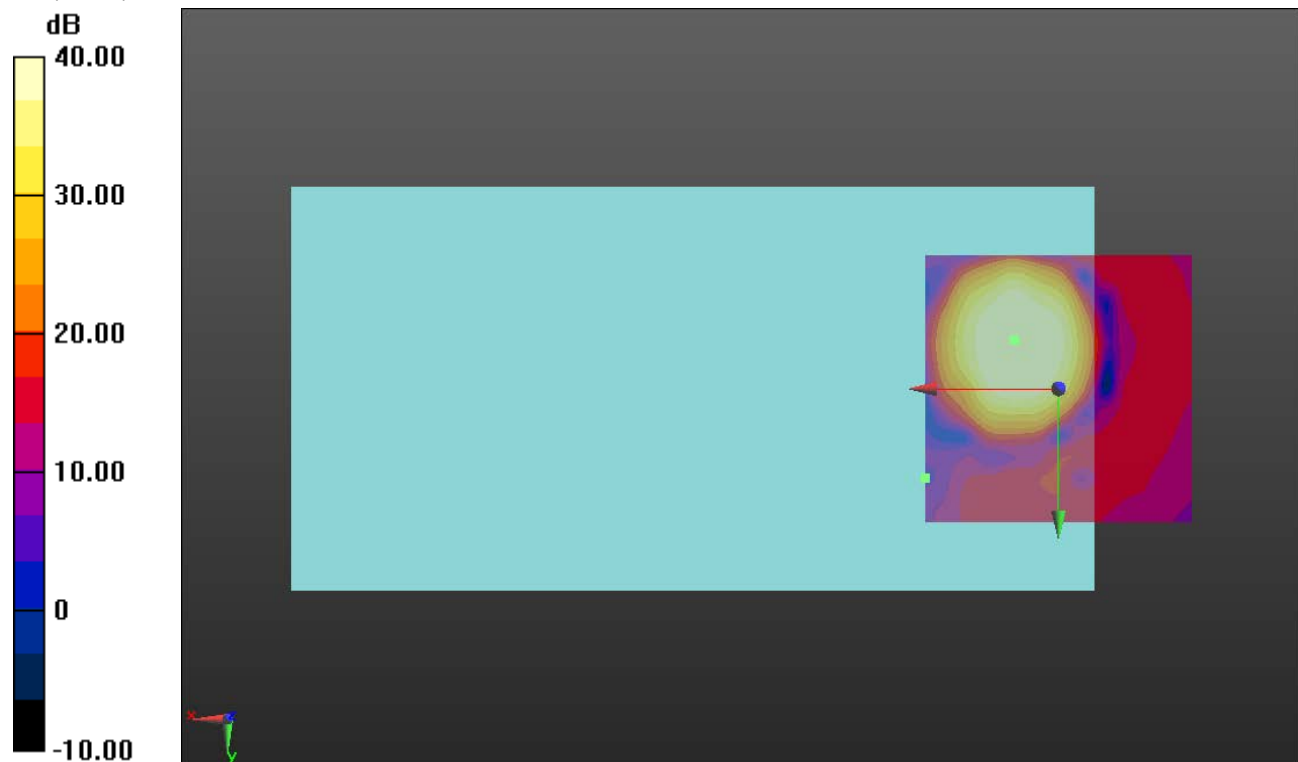
ABM1 comp = 2.16 dBA/m

BWC Factor = 0.16 dB

Location: 8.3, -9.2, 3.7 mm

ABM2 = -37.35 dBA/m

Location: 25, 16.7, 3.7 mm



0 dB = 1.000 = 0.00 dB

## LTE Band 12

Communication System: UID 0, @LTE (FDD) (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 12 QPSK Ch. 23095 RB 25/25 10 MHz BW EVS 24.4kbps\_ANT 2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

### Cursor:

ABM1/ABM2 = 39.52 dB

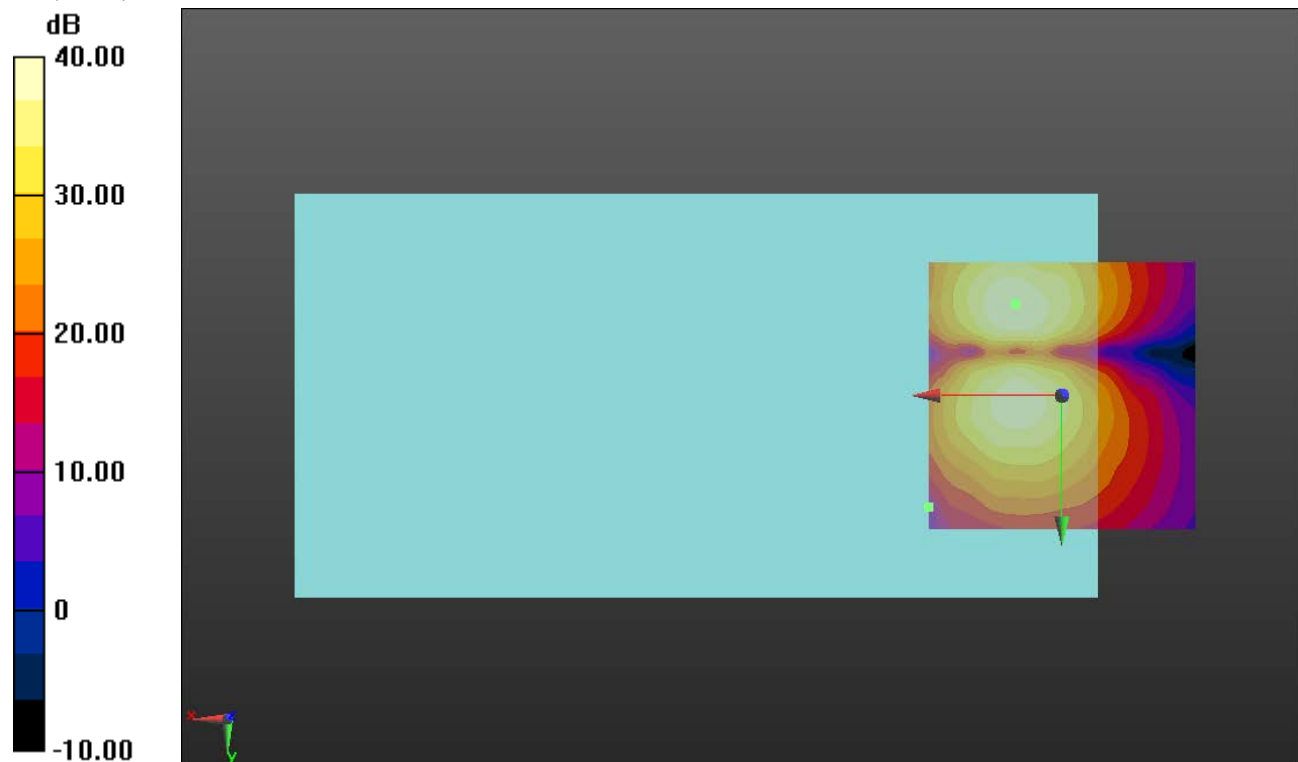
ABM1 comp = -5.68 dBA/m

BWC Factor = 0.16 dB

Location: 8.8, -17.1, 3.7 mm

ABM2 = -36.69 dBA/m

Location: 25, 20.8, 3.7 mm



0 dB = 1.000 = 0.00 dB

## LTE Band 25

Communication System: UID 0, @LTE (FDD) (0); Frequency: 1882.5 MHz; Duty Cycle: 1:1

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 25 QPSK Ch. 26365 RB 50/49 20 MHz BW EVS 24.4kbps\_ANT 2/z (axial) wideband at best S/N/ABM Freq

**Resp(x,y,z,f) (1x1x1):** Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

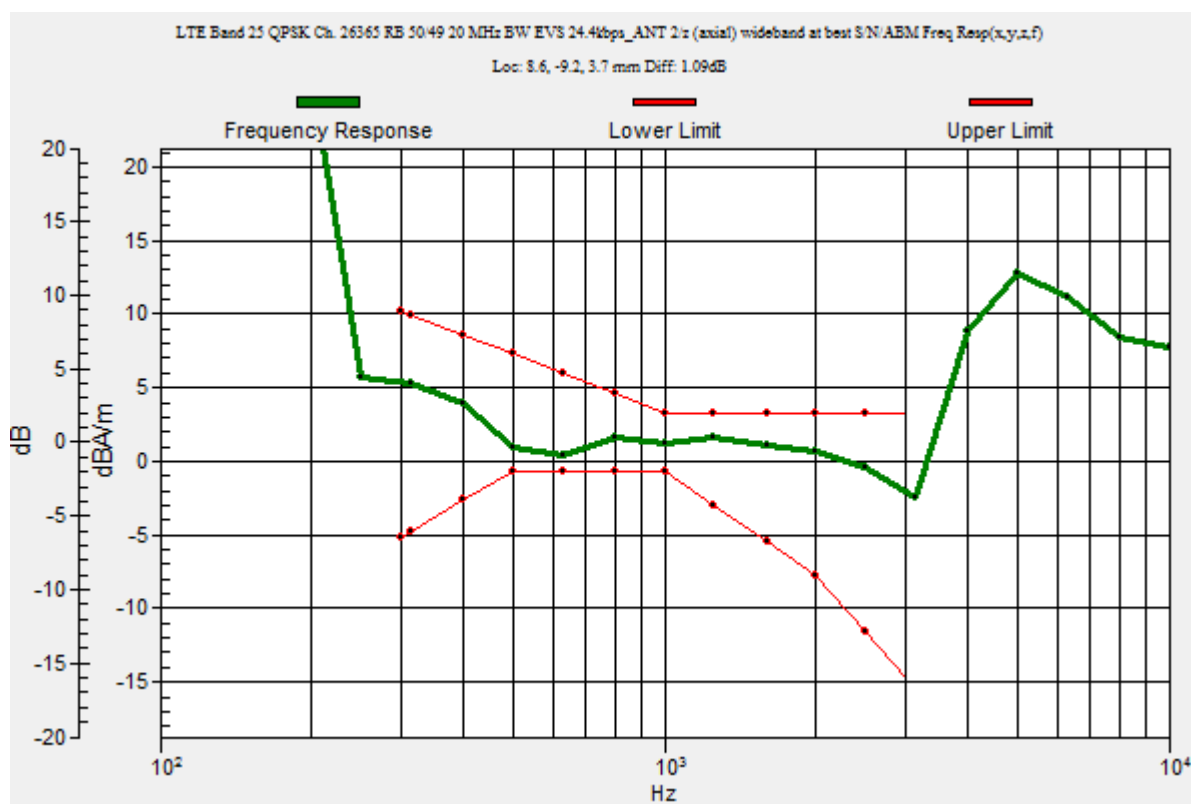
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| Category T2 | 10 dB to 20 dB                                                                     |
| Category T3 | 20 dB to 30 dB                                                                     |
| Category T4 | > 30 dB                                                                            |

#### Cursor:

Diff = 1.09 dB

BWC Factor = 10.80 dB

Location: 8.6, -9.2, 3.7 mm



## LTE Band 25

Communication System: UID 0, @LTE (FDD) (0); Frequency: 1882.5 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 25 QPSK Ch. 26365 RB 50/49 20 MHz BW EVS 24.4kbps\_ANT 2/z (axial) 4.2mm 50 x 50/ABM Interpolated

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

#### Cursor:

ABM1/ABM2 = 36.74 dB

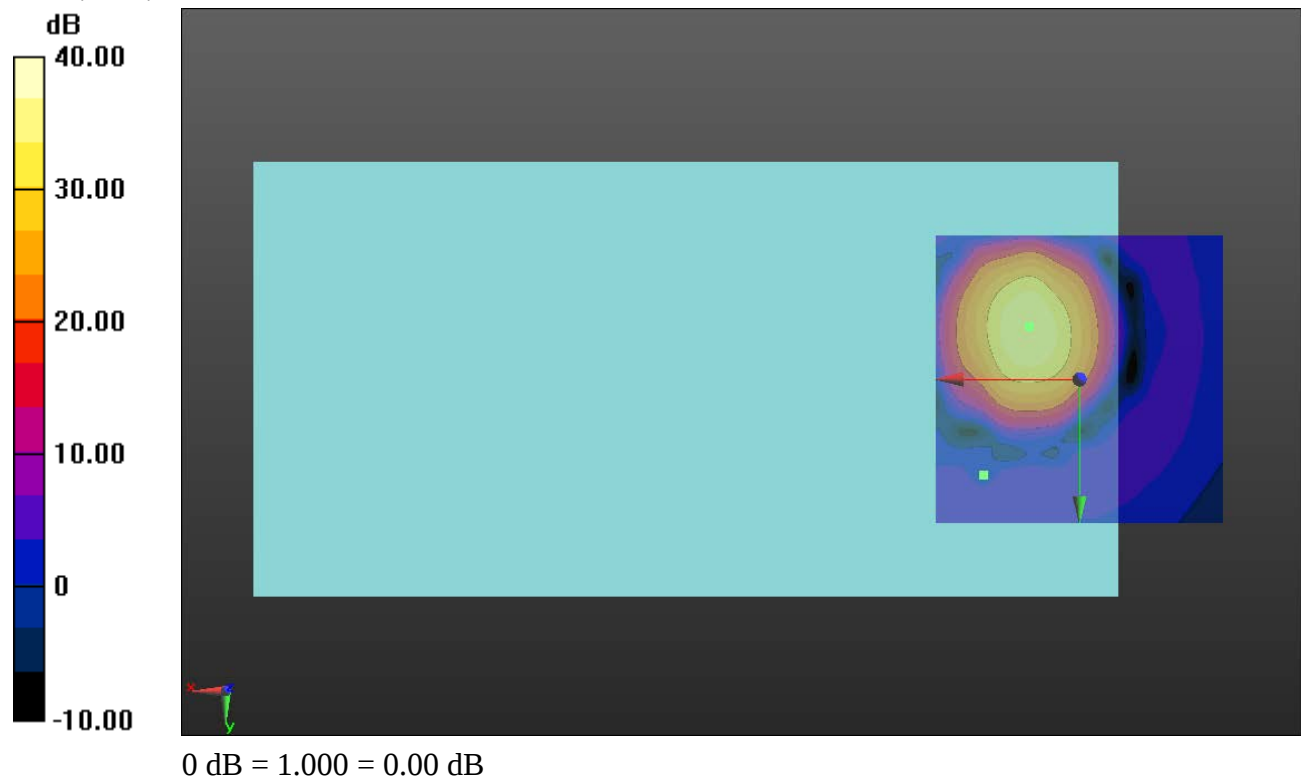
ABM1 comp = 1.61 dBA/m

BWC Factor = 0.16 dB

Location: 8.8, -9.2, 3.7 mm

ABM2 = -32.41 dBA/m

Location: 16.7, 16.7, 3.7 mm



## LTE Band 25

Communication System: UID 0, @LTE (FDD) (0); Frequency: 1882.5 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 25 QPSK Ch. 26365 RB 50/49 20 MHz BW EVS 24.4kbps\_ANT 2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

### Cursor:

ABM1/ABM2 = 30.53 dB

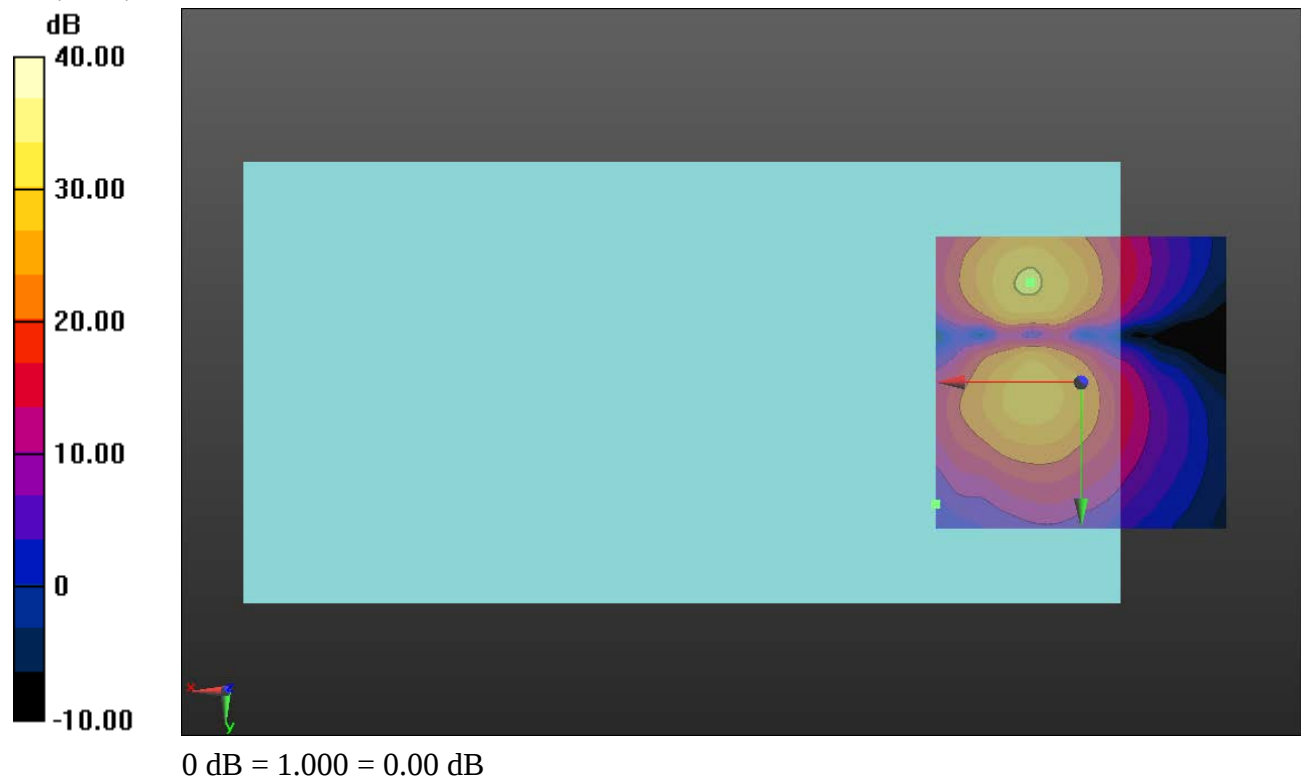
ABM1 comp = -7.61 dBA/m

BWC Factor = 0.16 dB

Location: 8.8, -17.1, 3.7 mm

ABM2 = -34.63 dBA/m

Location: 25, 20.8, 3.7 mm



**LTE Band 26**

Communication System: UID 0, @LTE (FDD) (0); Frequency: 831.5 MHz; Duty Cycle: 1:1

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 26 QPSK Ch. 26865 RB 36/39 15 MHz BW EVS 24.4kbps\_ANT 2/z (axial) wideband at best S/N/ABM Freq**

**Resp(x,y,z,f) (1x1x1):** Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

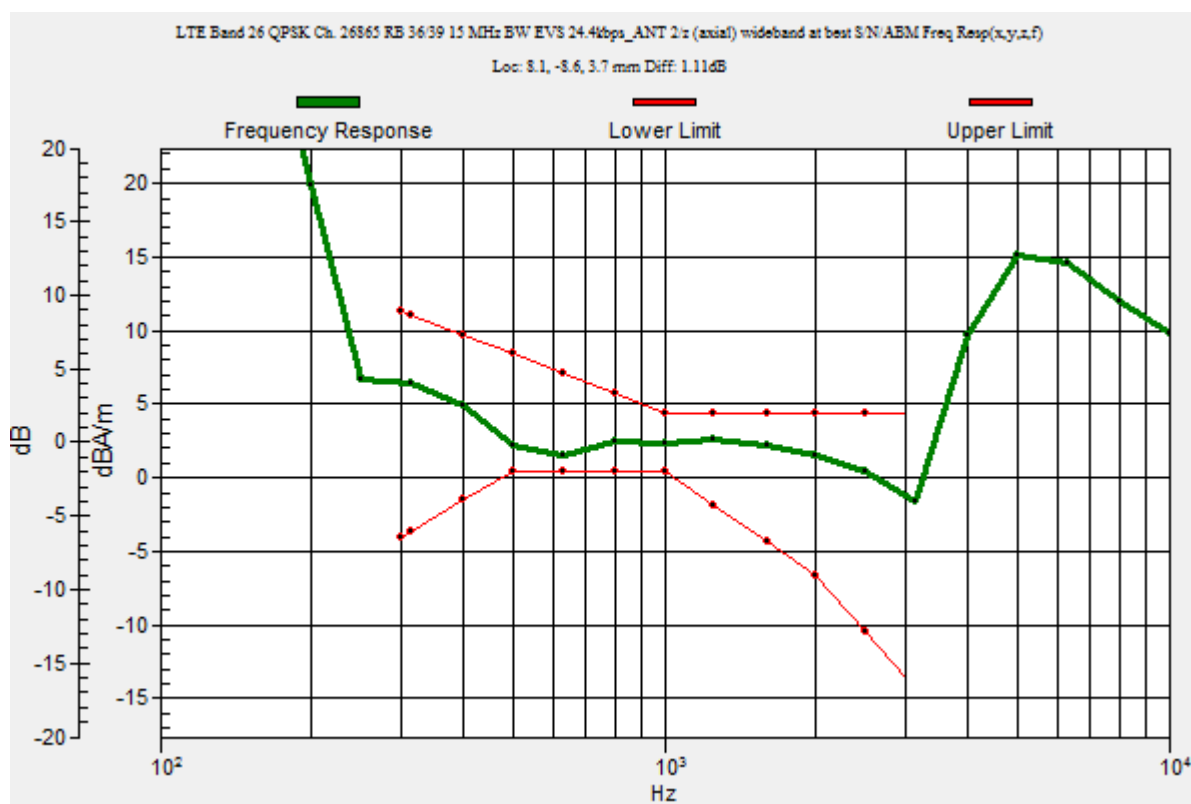
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| Category T2 | 10 dB to 20 dB                                                                     |
| Category T3 | 20 dB to 30 dB                                                                     |
| Category T4 | > 30 dB                                                                            |

**Cursor:**

Diff = 1.11 dB

BWC Factor = 10.80 dB

Location: 8.1, -8.6, 3.7 mm



## LTE Band 26

Communication System: UID 0, @LTE (FDD) (0); Frequency: 831.5 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 26 QPSK Ch. 26865 RB 36/39 15 MHz BW EVS 24.4kbps\_ANT 2/z (axial) 4.2mm 50 x 50/ABM Interpolated

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

#### Cursor:

ABM1/ABM2 = 44.52 dB

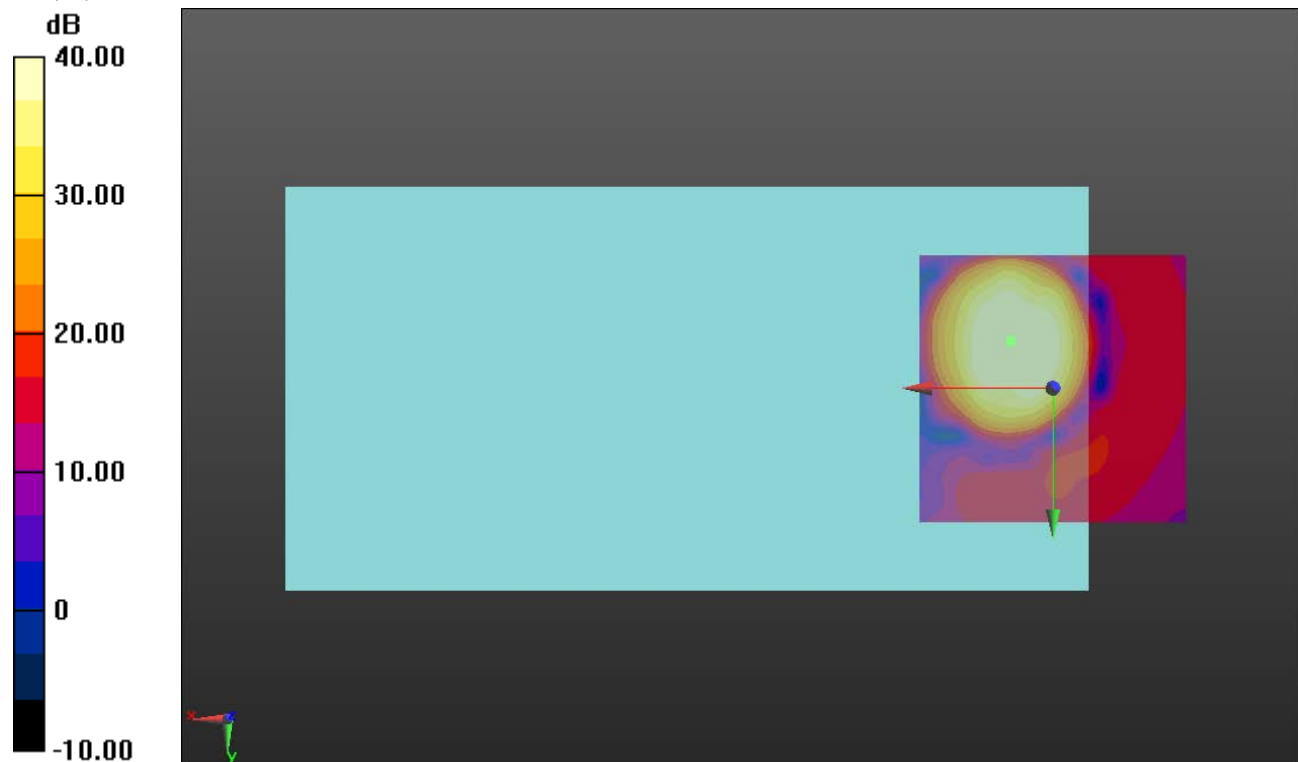
ABM1 comp = 2.58 dBA/m

BWC Factor = 0.16 dB

Location: 7.9, -8.8, 3.7 mm

ABM2 = -36.88 dBA/m

Location: 25, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

## LTE Band 26

Communication System: UID 0, @LTE (FDD) (0); Frequency: 831.5 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 26 QPSK Ch. 26865 RB 36/39 15 MHz BW EVS 24.4kbps\_ANT 2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

### Cursor:

ABM1/ABM2 = 39.53 dB

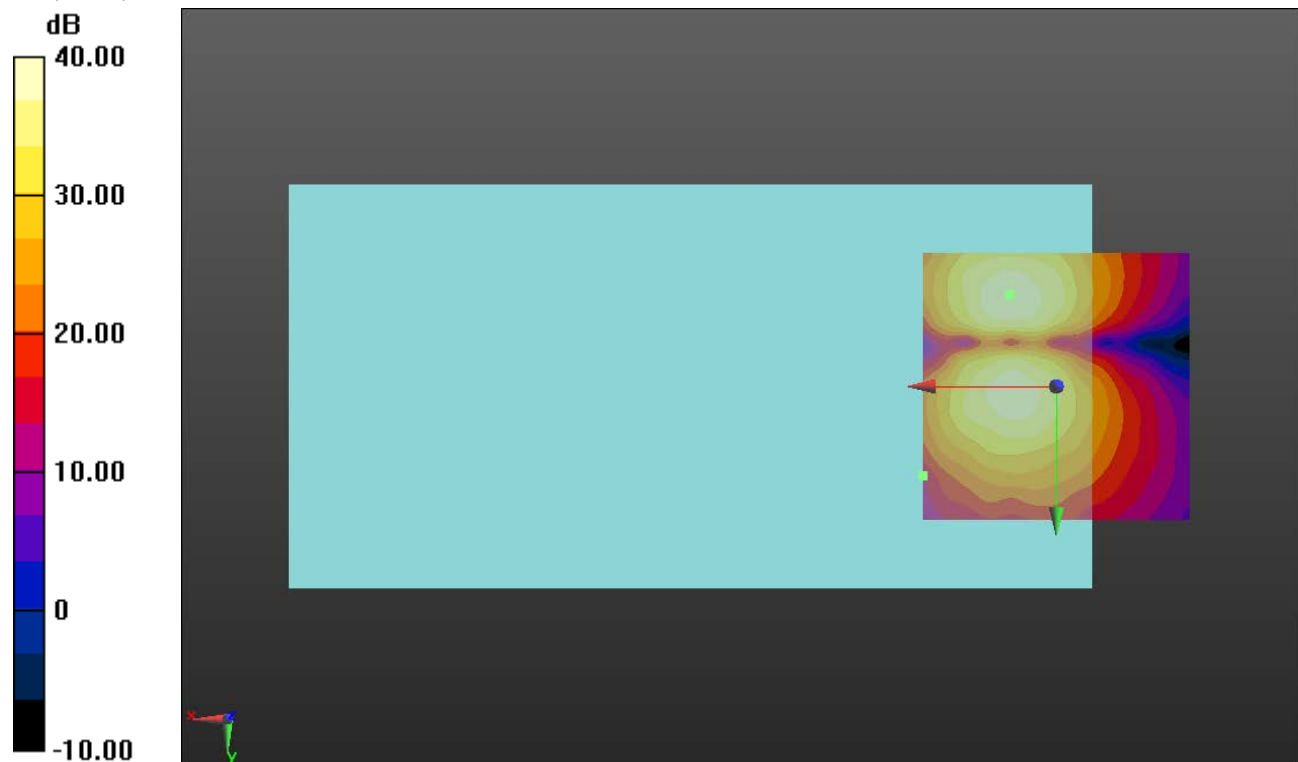
ABM1 comp = -5.64 dBA/m

BWC Factor = 0.16 dB

Location: 8.8, -17.1, 3.7 mm

ABM2 = -38.64 dBA/m

Location: 25, 16.7, 3.7 mm



0 dB = 1.000 = 0.00 dB

**LTE Band 30**

Communication System: UID 0, @LTE (FDD) (0); Frequency: 2310 MHz;Duty Cycle: 1:1

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 30 QPSK Ch. 27710 RB 25/25 10 MHz BW EVS 24.4kbps\_ANT 2/z (axial) wideband at best S/N/ABM Freq**

**Resp(x,y,z,f) (1x1x1):** Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

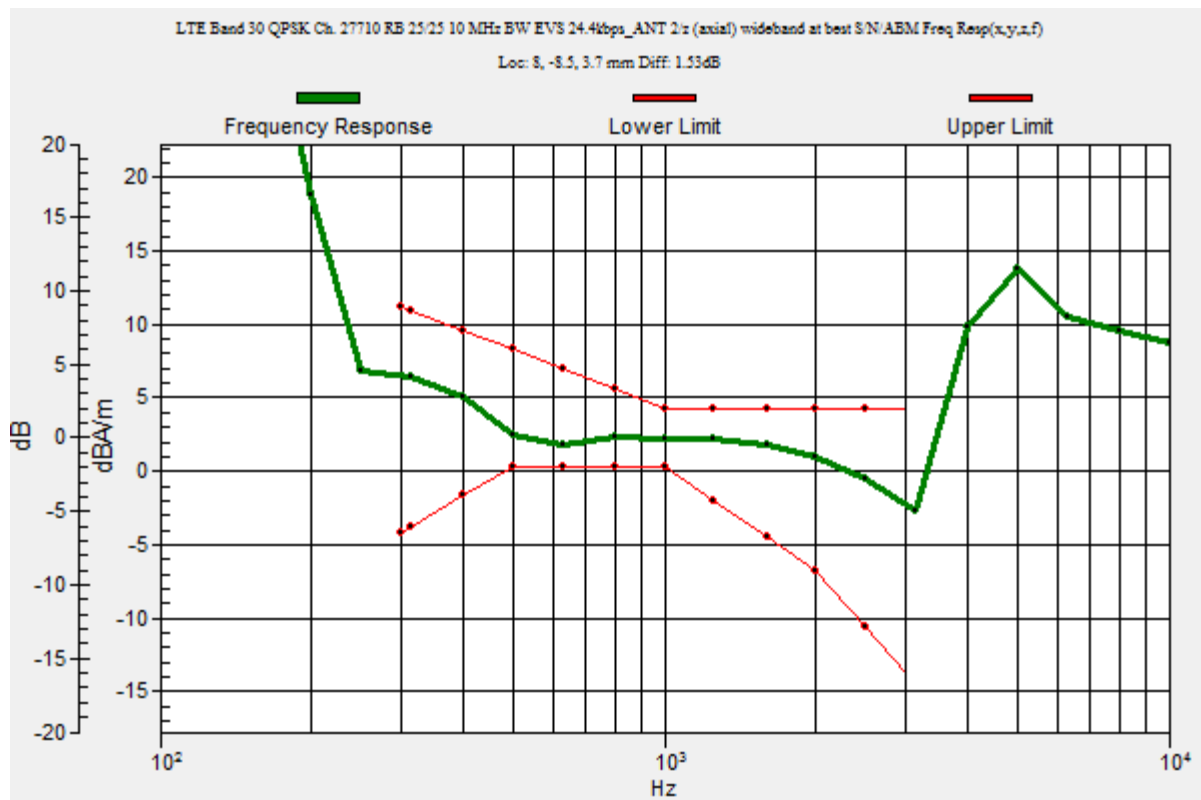
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| Category T2 | 10 dB to 20 dB                                                                     |
| Category T3 | 20 dB to 30 dB                                                                     |
| Category T4 | > 30 dB                                                                            |

**Cursor:**

Diff = 1.53 dB

BWC Factor = 10.80 dB

Location: 8, -8.5, 3.7 mm



## LTE Band 30

Communication System: UID 0, @LTE (FDD) (0); Frequency: 2310 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 30 QPSK Ch. 27710 RB 25/25 10 MHz BW EVS 24.4kbps\_ANT 2/z (axial) 4.2mm 50 x 50/ABM Interpolated

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

#### Cursor:

ABM1/ABM2 = 43.13 dB

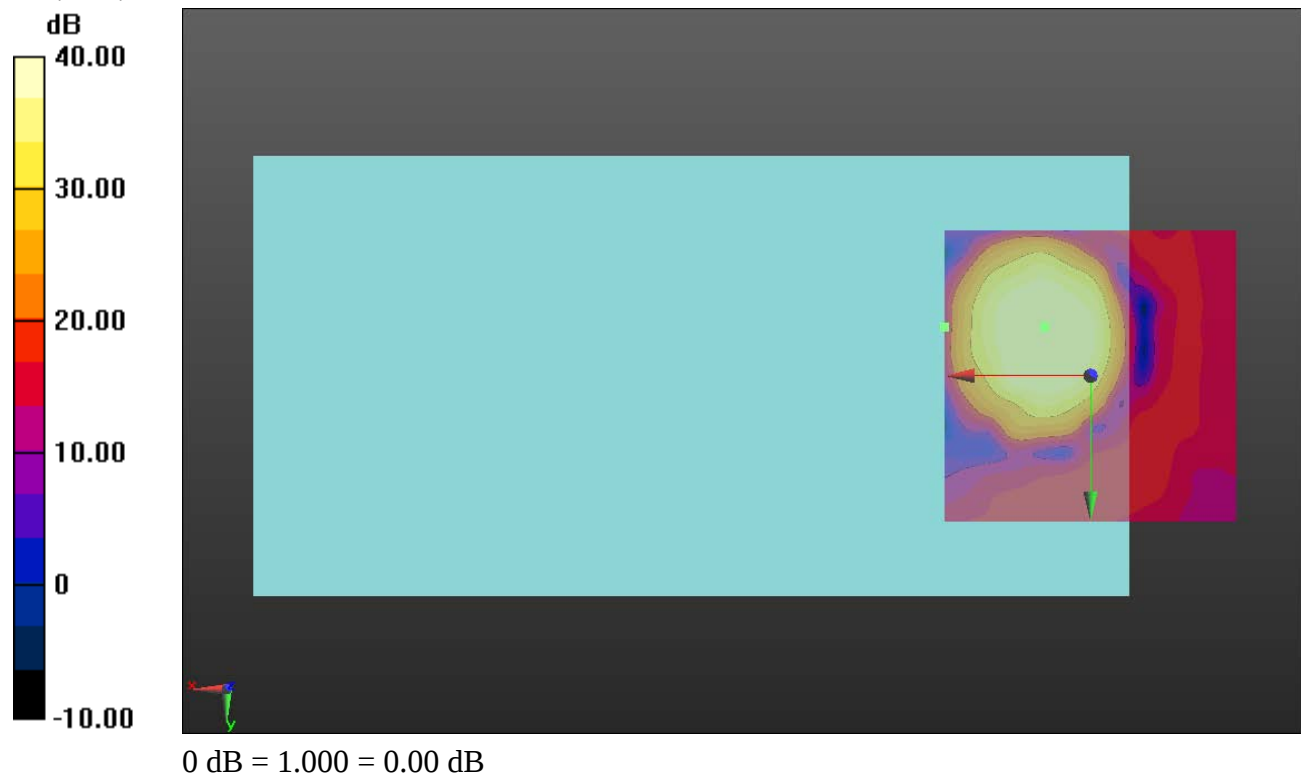
ABM1 comp = 3.06 dBA/m

BWC Factor = 0.16 dB

Location: 7.9, -8.3, 3.7 mm

ABM2 = -32.98 dBA/m

Location: 25, -8.3, 3.7 mm



## LTE Band 30

Communication System: UID 0, @LTE (FDD) (0); Frequency: 2310 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 30 QPSK Ch. 27710 RB 25/25 10 MHz BW EVS 24.4kbps\_ANT 2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

### Cursor:

ABM1/ABM2 = 38.26 dB

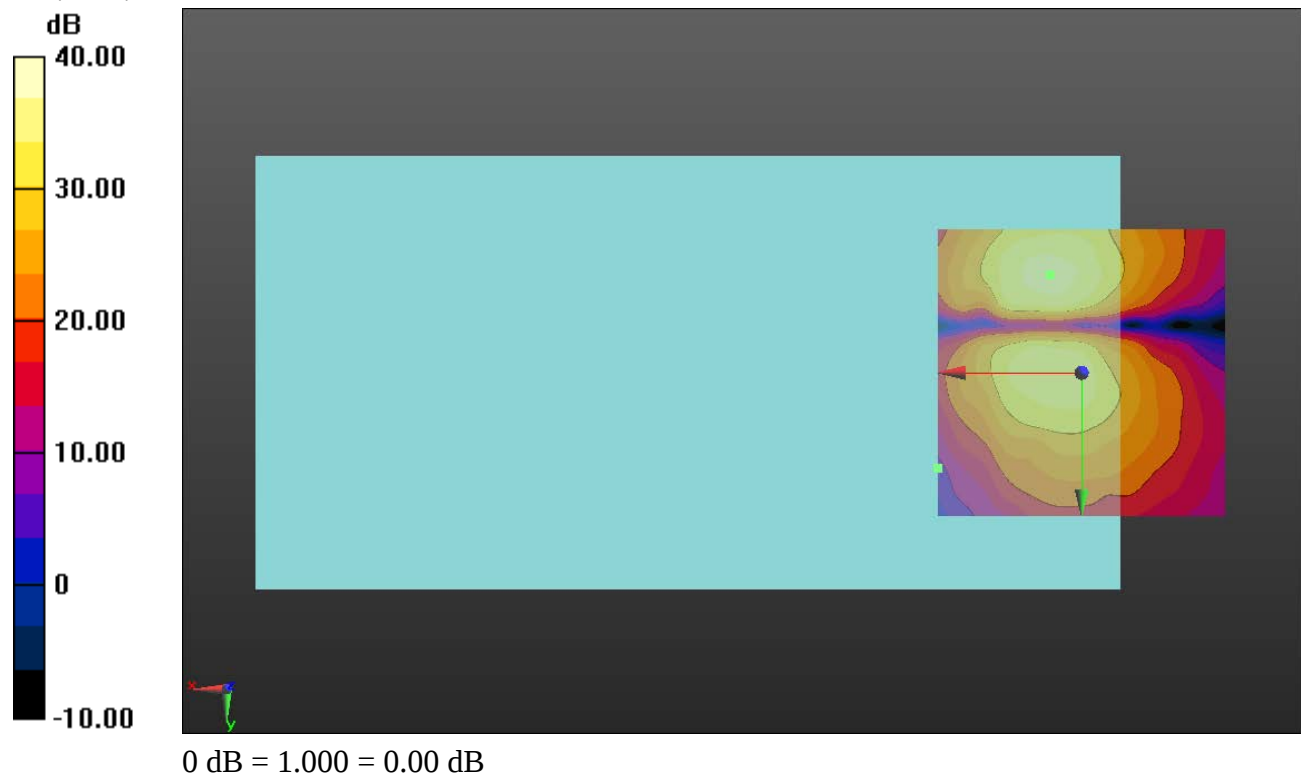
ABM1 comp = -7.25 dBA/m

BWC Factor = 0.16 dB

Location: 5.4, -17.1, 3.7 mm

ABM2 = -32.97 dBA/m

Location: 25, 16.7, 3.7 mm



**LTE Band 41**

Communication System: UID 0, @LTE (TDD) (0); Frequency: 2593 MHz; Duty Cycle: 1:1.59956

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 41 QPSK Ch. 40620 RB 50/49 20 MHz BW EVS 5.9kbps\_ANT 2/z (axial) wideband at best S/N/ABM Freq**

**Resp(x,y,z,f) (1x1x1):** Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

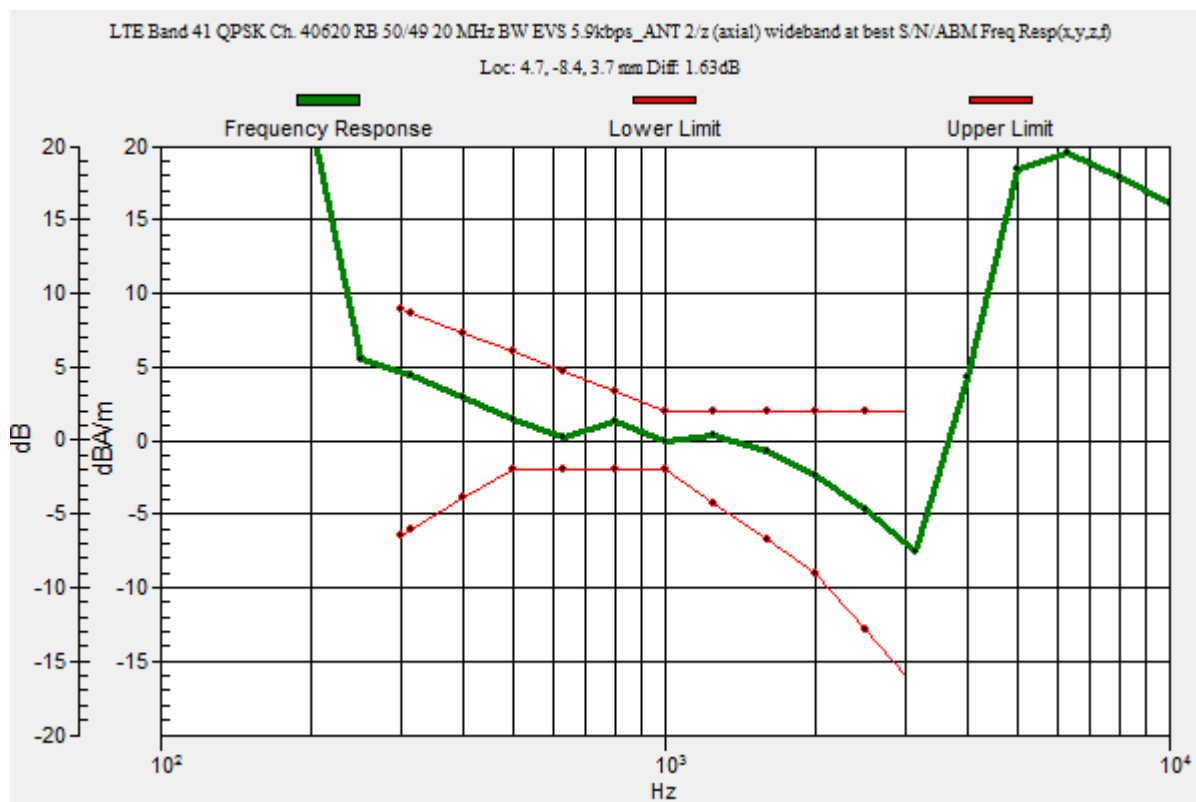
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| Category T2 | 10 dB to 20 dB                                                                     |
| Category T3 | 20 dB to 30 dB                                                                     |
| Category T4 | > 30 dB                                                                            |

**Cursor:**

Diff = 1.63 dB

BWC Factor = 10.80 dB

Location: 4.7, -8.4, 3.7 mm



## LTE Band 41

Communication System: UID 0, @LTE (TDD) (0); Frequency: 2593 MHz; Duty Cycle: 1:1.59956

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 41 QPSK Ch. 40620 RB 50/49 20 MHz BW EVS 5.9kbps\_ANT 2/z (axial) 4.2mm 50 x 50/ABM Interpolated

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

#### Cursor:

ABM1/ABM2 = 32.96 dB

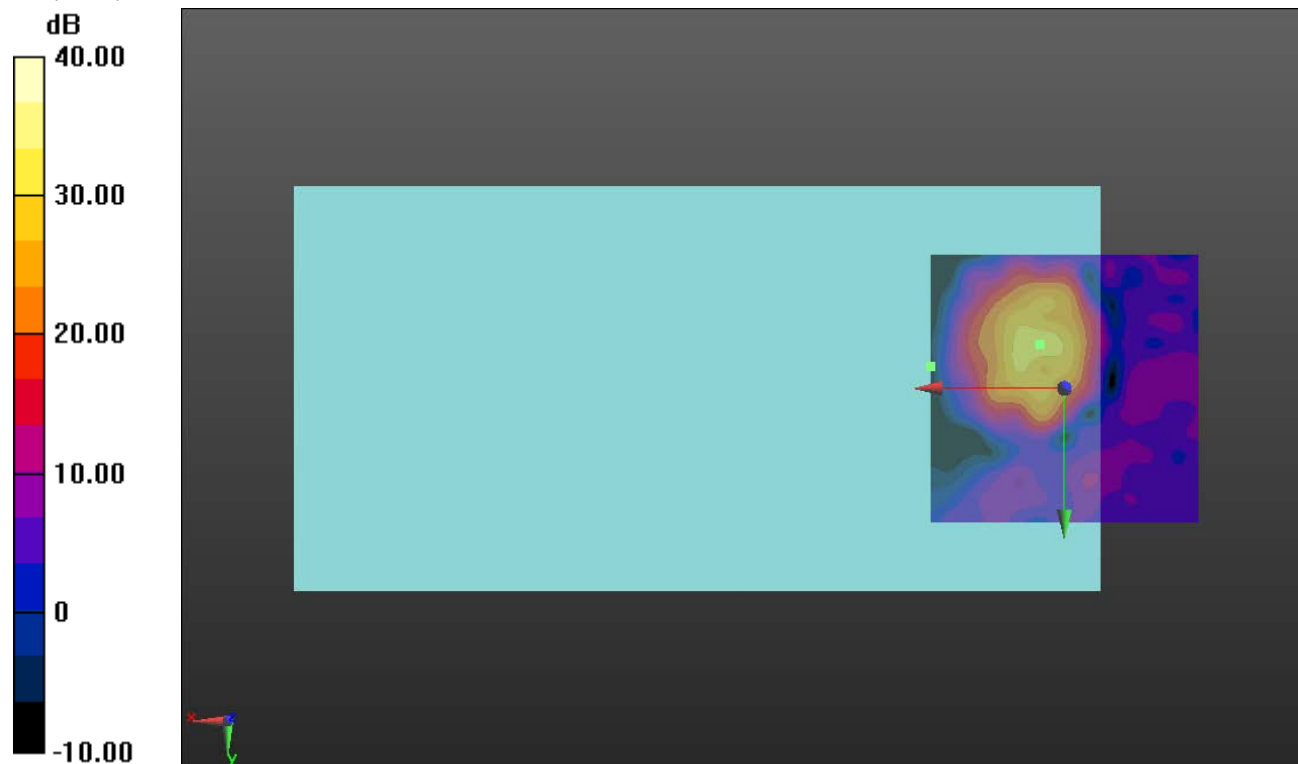
ABM1 comp = -2.67 dBA/m

BWC Factor = 0.16 dB

Location: 4.6, -8.3, 3.7 mm

ABM2 = -25.22 dBA/m

Location: 25, -4.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

## LTE Band 41

Communication System: UID 0, @LTE (TDD) (0); Frequency: 2593 MHz; Duty Cycle: 1:1.59956

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 41 QPSK Ch. 40620 RB 50/49 20 MHz BW EVS 5.9kbps\_ANT 2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

### Cursor:

ABM1/ABM2 = 33.69 dB

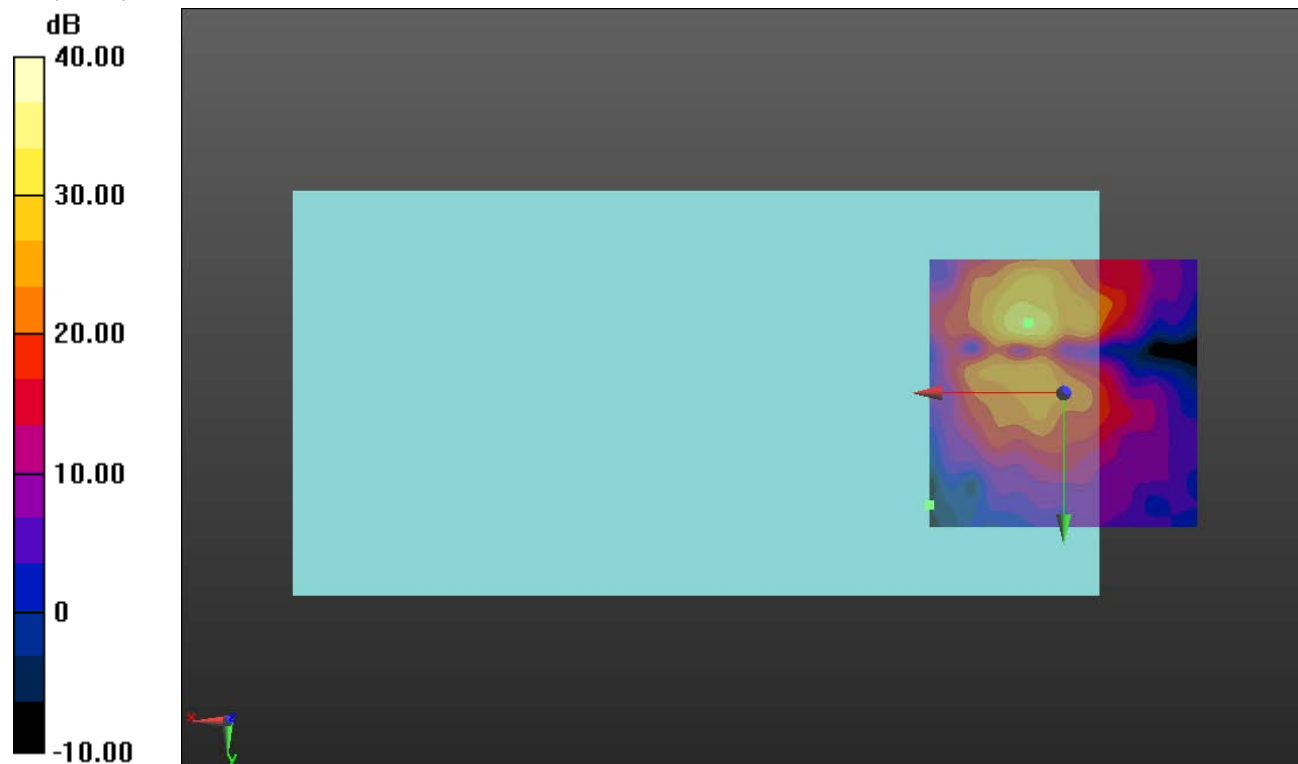
ABM1 comp = -10.07 dBA/m

BWC Factor = 0.16 dB

Location: 6.7, -12.9, 3.7 mm

ABM2 = -24.74 dBA/m

Location: 25, 20.8, 3.7 mm



0 dB = 1.000 = 0.00 dB

**LTE Band 48**

Communication System: UID 0, @LTE (TDD) (0); Frequency: 3625 MHz;Duty Cycle: 1:1.59956

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 48 QPSK Ch. 55990 RB 50/49 20 MHz BW EVS 5.9kbps\_ANT 3/z (axial) wideband at best S/N/ABM Freq**

**Resp(x,y,z,f) (1x1x1):** Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

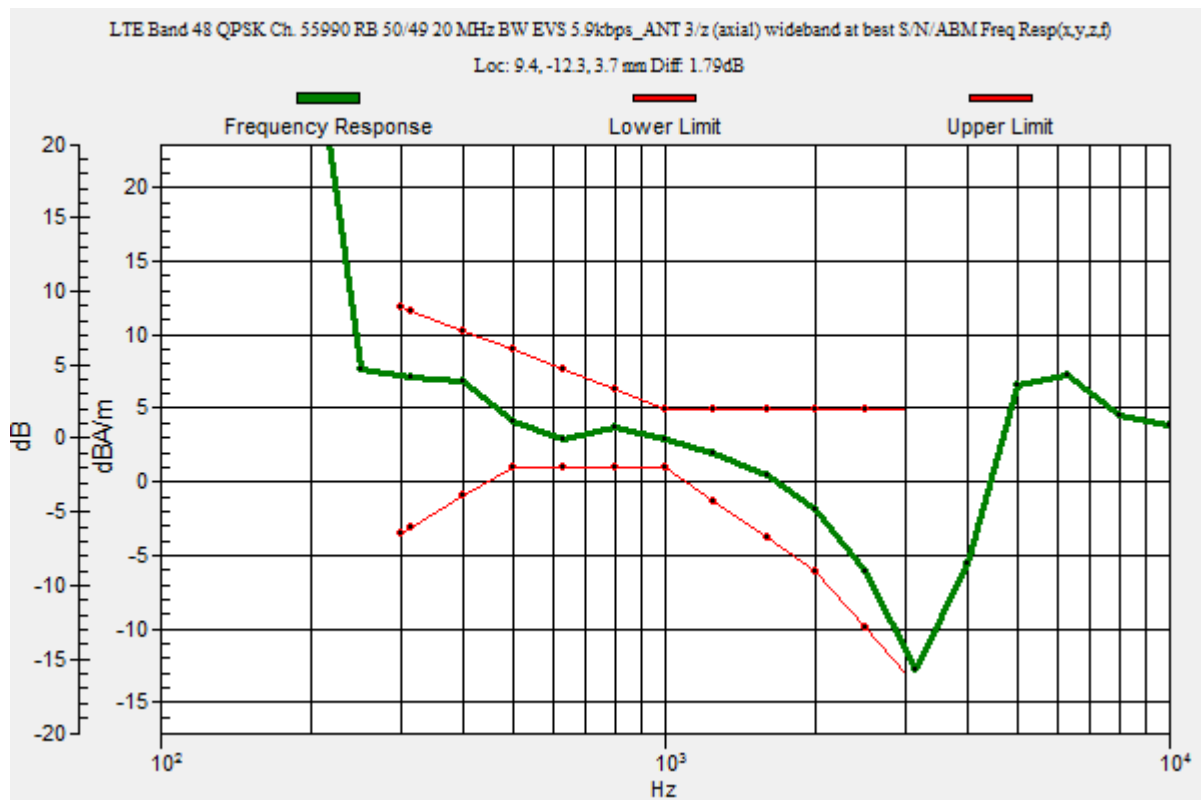
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| Category T2 | 10 dB to 20 dB                                                                     |
| Category T3 | 20 dB to 30 dB                                                                     |
| Category T4 | > 30 dB                                                                            |

**Cursor:**

Diff = 1.79 dB

BWC Factor = 10.80 dB

Location: 9.4, -12.3, 3.7 mm



## LTE Band 48

Communication System: UID 0, @LTE (TDD) (0); Frequency: 3625 MHz; Duty Cycle: 1:1.59956

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 48 QPSK Ch. 55990 RB 50/49 20 MHz BW EVS 5.9kbps\_ANT 3/z (axial) 4.2mm 50 x 50/ABM Interpolated

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

#### Cursor:

ABM1/ABM2 = 38.83 dB

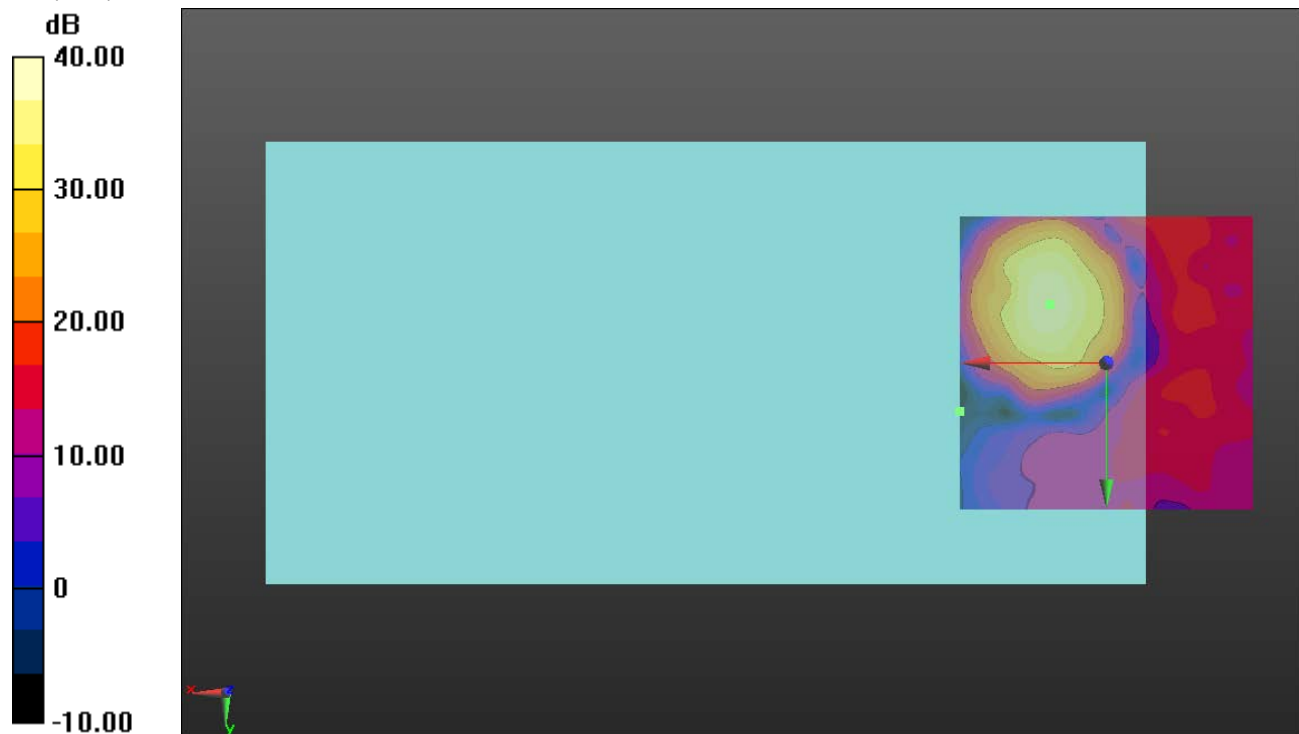
ABM1 comp = 4.49 dBA/m

BWC Factor = 0.16 dB

Location: 9.6, -10, 3.7 mm

ABM2 = -29.07 dBA/m

Location: 25, 8.3, 3.7 mm



## LTE Band 48

Communication System: UID 0, @LTE (TDD) (0); Frequency: 3625 MHz; Duty Cycle: 1:1.59956

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 48 QPSK Ch. 55990 RB 50/49 20 MHz BW EVS 5.9kbps\_ ANT 3/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

### Cursor:

ABM1/ABM2 = 40.50 dB

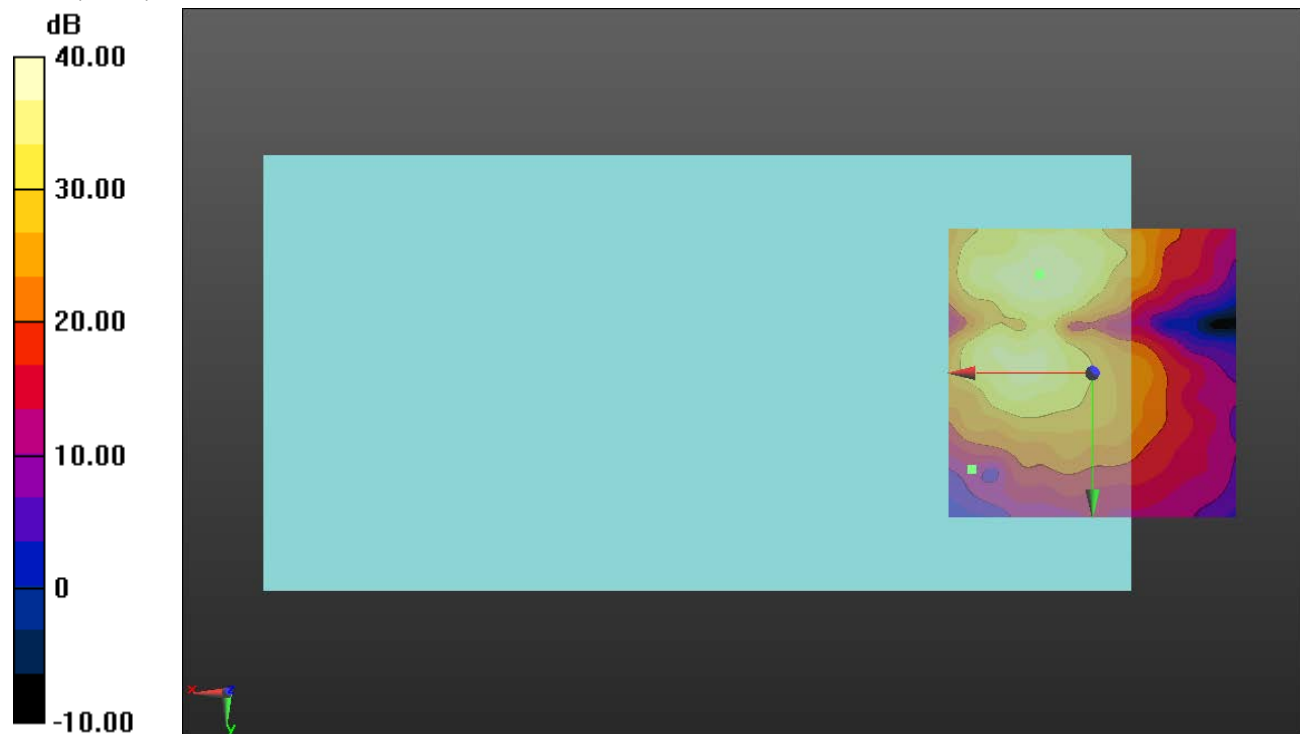
ABM1 comp = -4.23 dBA/m

BWC Factor = 0.16 dB

Location: 9.2, -17.1, 3.7 mm

ABM2 = -33.04 dBA/m

Location: 20.8, 16.7, 3.7 mm



0 dB = 1.000 = 0.00 dB

**LTE Band 66**

Communication System: UID 0, @LTE (FDD) (0); Frequency: 1745 MHz;Duty Cycle: 1:1

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 66 QPSK Ch. 132322 RB 50/49 20 MHz BW EVS 24.4kbps\_ANT 2/z (axial) wideband at best S/N/ABM Freq**

**Resp(x,y,z,f) (1x1x1):** Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

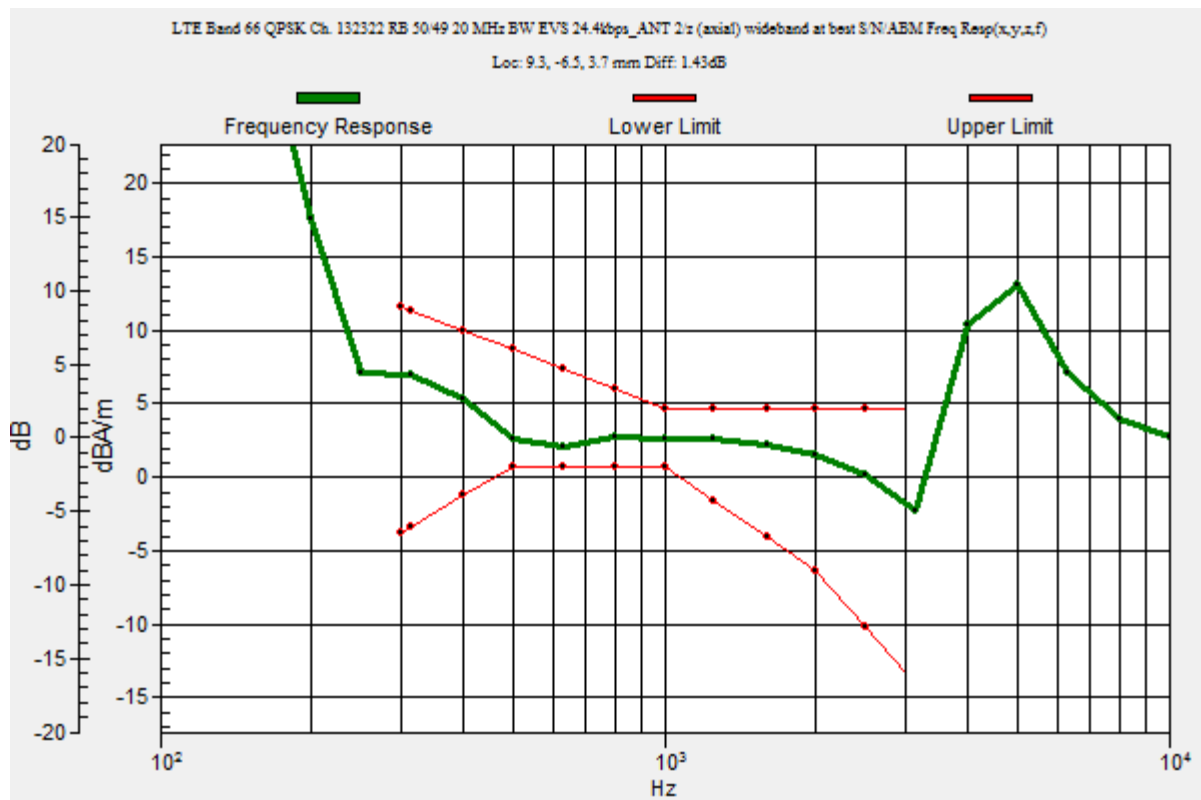
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| Category T2 | 10 dB to 20 dB                                                                     |
| Category T3 | 20 dB to 30 dB                                                                     |
| Category T4 | > 30 dB                                                                            |

**Cursor:**

Diff = 1.43 dB

BWC Factor = 10.80 dB

Location: 9.3, -6.5, 3.7 mm



## LTE Band 66

Communication System: UID 0, @LTE (FDD) (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 66 QPSK Ch. 132322 RB 50/49 20 MHz BW EVS 24.4kbps\_ANT 2/z (axial) 4.2mm 50 x 50/ABM Interpolated

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

#### Cursor:

ABM1/ABM2 = 44.95 dB

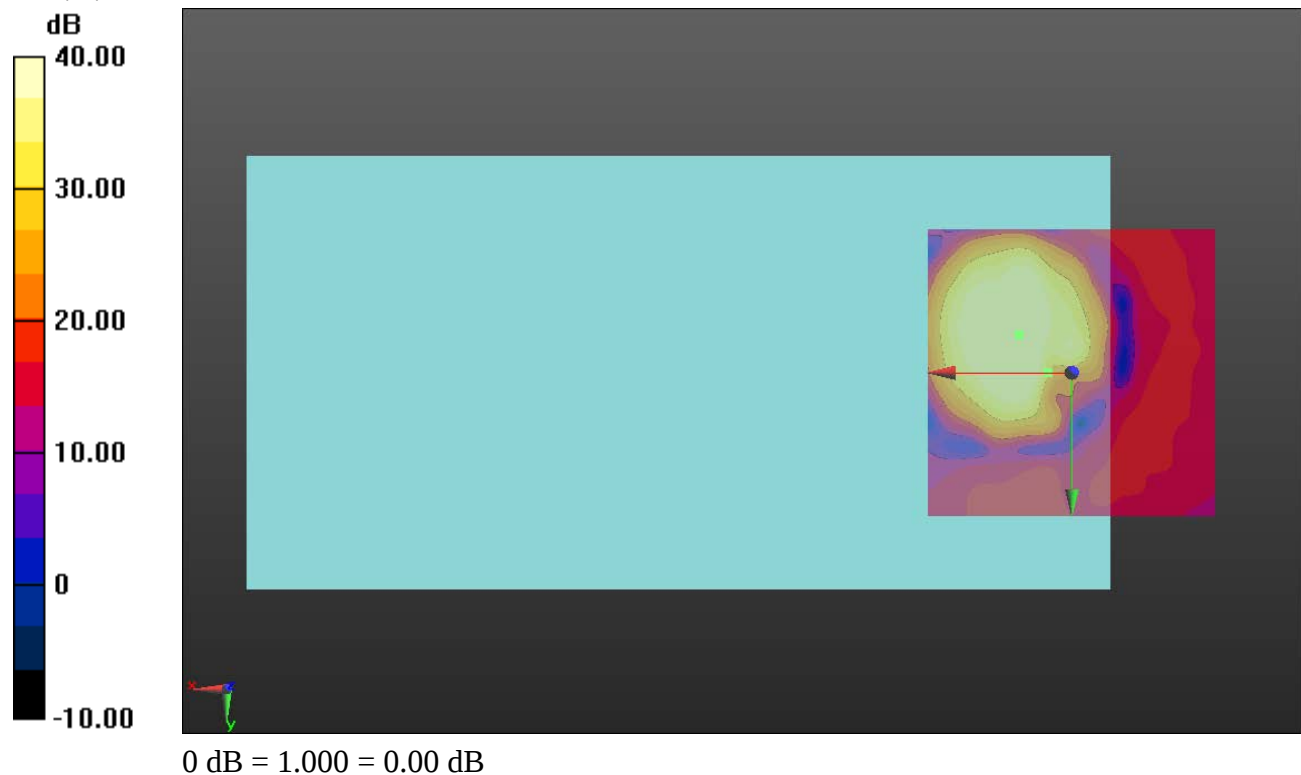
ABM1 comp = 3.38 dBA/m

BWC Factor = 0.16 dB

Location: 9.2, -6.7, 3.7 mm

ABM2 = -35.47 dBA/m

Location: 4.2, 0, 3.7 mm



## LTE Band 66

Communication System: UID 0, @LTE (FDD) (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 66 QPSK Ch. 132322 RB 50/49 20 MHz BW EVS 24.4kbps\_ANT 2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

### Cursor:

ABM1/ABM2 = 38.96 dB

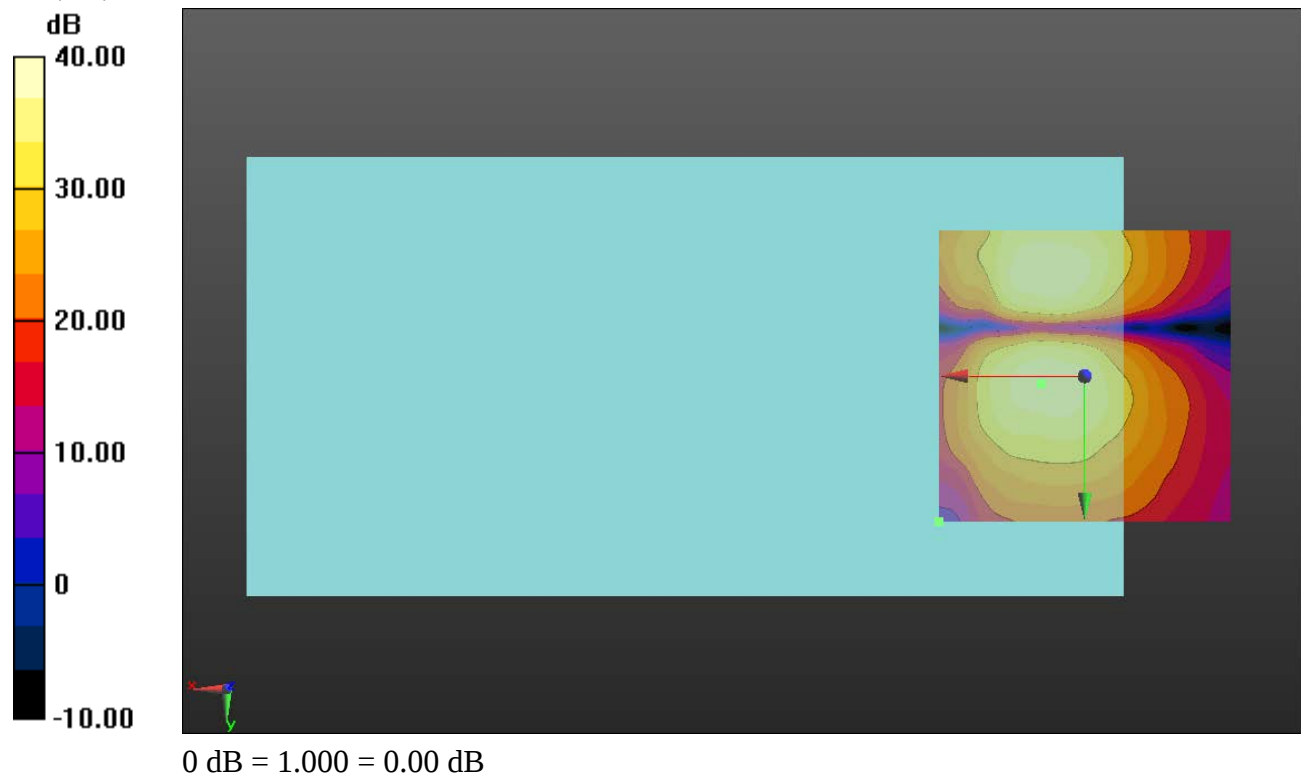
ABM1 comp = -7.00 dBA/m

BWC Factor = 0.16 dB

Location: 7.5, 1.2, 3.7 mm

ABM2 = -36.87 dBA/m

Location: 25, 25, 3.7 mm



## 802.11ac VHT20 Air Investigation

Communication System: UID 0, @IEEE 802.11b/g/n 2.4 GHz Band (0); Frequency: 2437 MHz; Duty Cycle: 1:1

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11acVHT20 MCS8 78Mbps Ch. 6 20MHz BW EVS 5.9kbps\_ANT 2/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

**(1x1x1):** Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 29.75

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

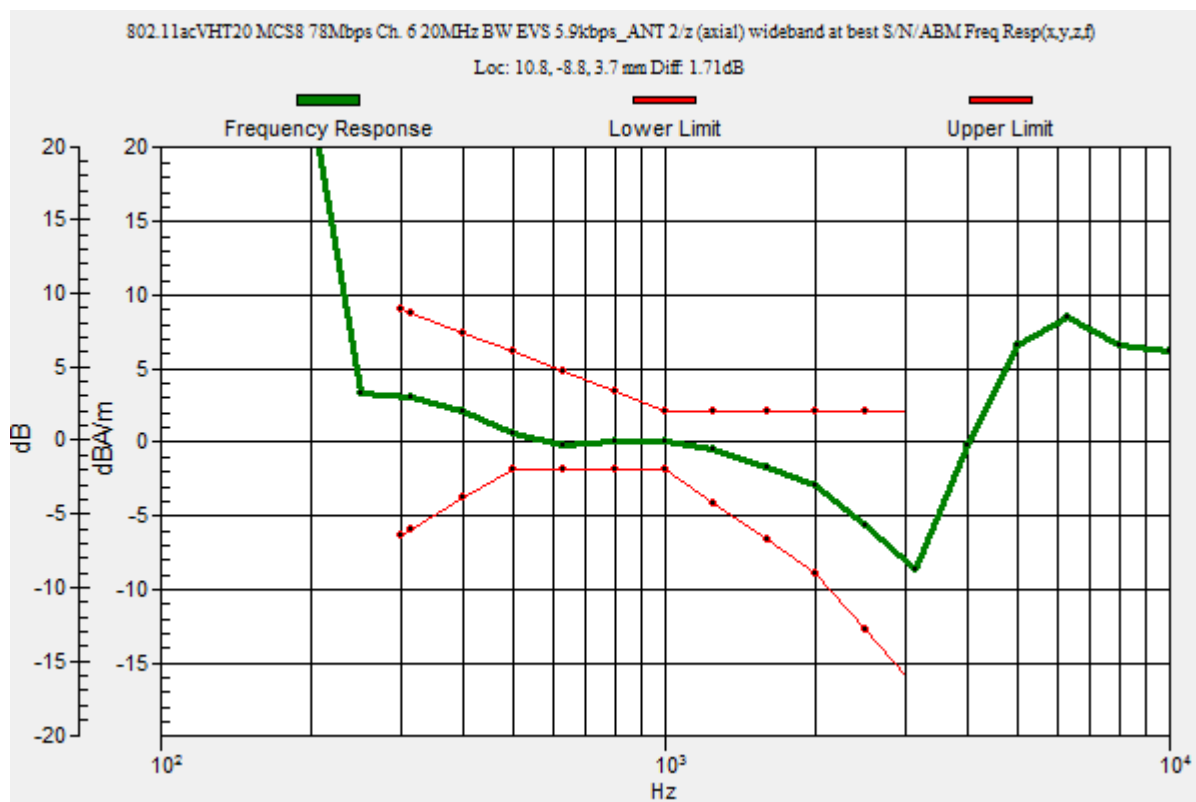
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| Category T2 | 10 dB to 20 dB                                                                     |
| Category T3 | 20 dB to 30 dB                                                                     |
| Category T4 | > 30 dB                                                                            |

#### Cursor:

Diff = 1.71 dB

BWC Factor = 10.80 dB

Location: 10.8, -8.8, 3.7 mm



## 802.11ac VHT20 Air Investigation

Communication System: UID 0, @IEEE 802.11b/g/n 2.4 GHz Band (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11acVHT20 MCS8 78Mbps Ch. 6 20MHz BW EVS 5.9kbps\_ANT 2/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z)

**(121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 15.17

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

#### Cursor:

ABM1/ABM2 = 38.99 dB

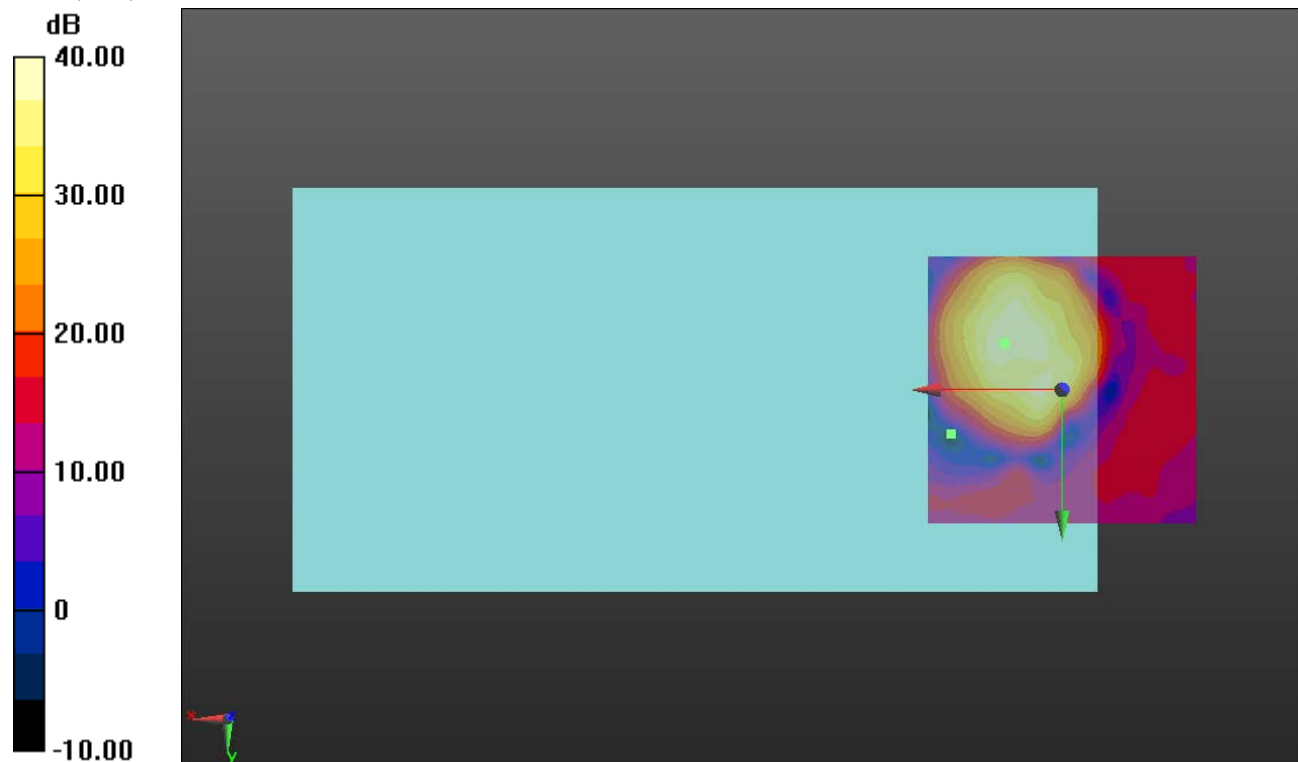
ABM1 comp = 0.38 dBA/m

BWC Factor = 0.16 dB

Location: 10.8, -8.8, 3.7 mm

ABM2 = -34.53 dBA/m

Location: 20.8, 8.3, 3.7 mm



## 802.11ac VHT20 Air Investigation

Communication System: UID 0, @IEEE 802.11b/g/n 2.4 GHz Band (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11acVHT20 MCS8 78Mbps Ch. 6 20MHz BW EVS 5.9kbps\_ANT 2/y (transversal) 4.2mm 50 x 50/ABM Interpolated

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 15.17

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

#### Cursor:

ABM1/ABM2 = 37.19 dB

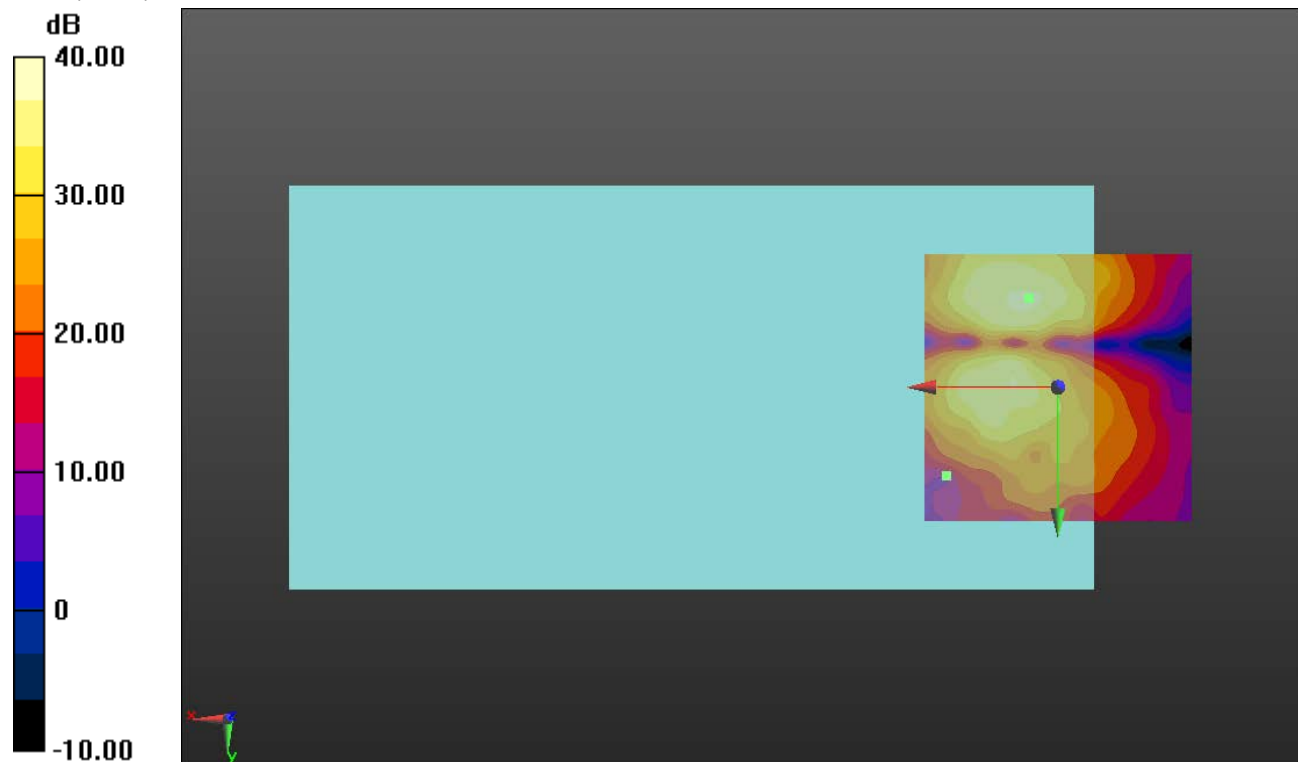
ABM1 comp = -8.06 dBA/m

BWC Factor = 0.16 dB

Location: 5.4, -16.7, 3.7 mm

ABM2 = -33.83 dBA/m

Location: 20.8, 16.7, 3.7 mm



**802.11ac VHT80**

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5210 MHz;Duty Cycle: 1:1

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11acVHT80 MCS5 108Mbps Ch. 42 80MHz EVS 24.4kbps\_ANT 5/z (axial) wideband at best S/N/ABM Freq**

**Resp(x,y,z,f) (1x1x1):** Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 29.75

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

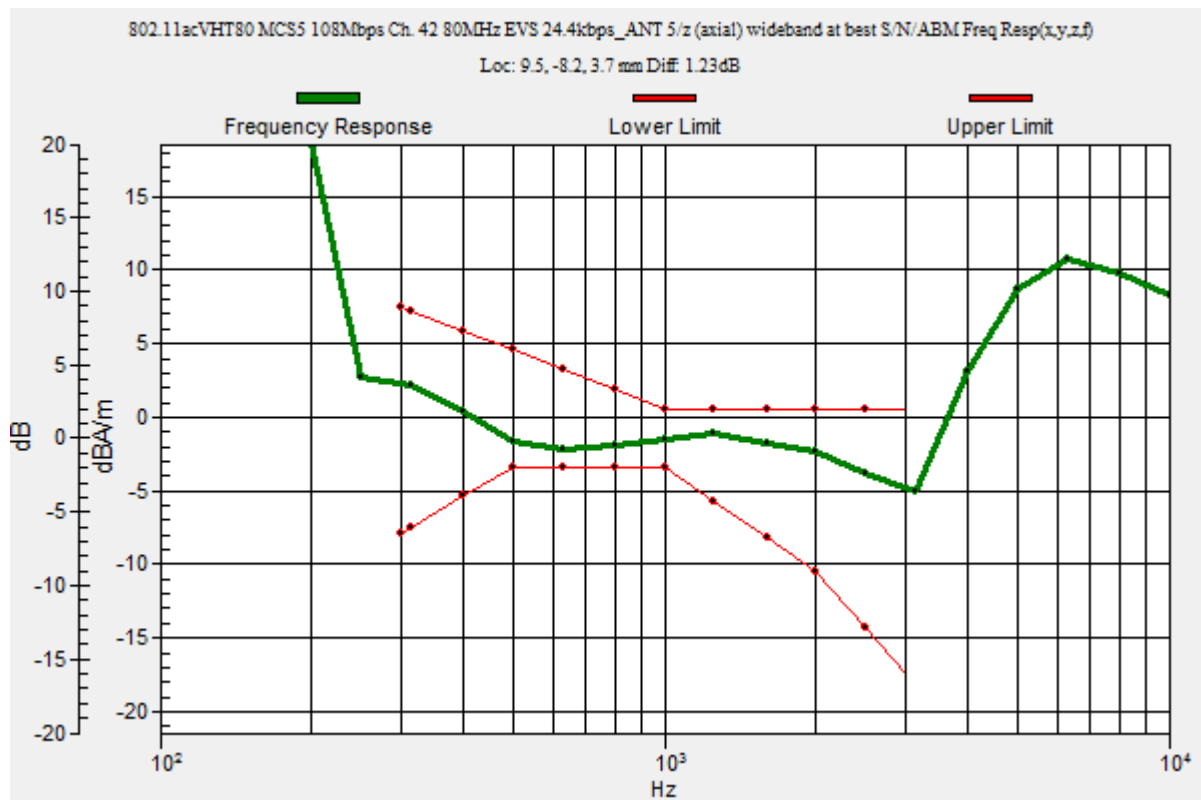
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| Category T2 | 10 dB to 20 dB                                                                     |
| Category T3 | 20 dB to 30 dB                                                                     |
| Category T4 | > 30 dB                                                                            |

**Cursor:**

Diff = 1.23 dB

BWC Factor = 10.80 dB

Location: 9.5, -8.2, 3.7 mm



**802.11ac VHT80**

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5210 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11acVHT80 MCS5 108Mbps  
Ch. 42 80MHz EVS 24.4kbps\_ANT 5/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z)  
(121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 15.17

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

**Cursor:**

ABM1/ABM2 = 37.90 dB

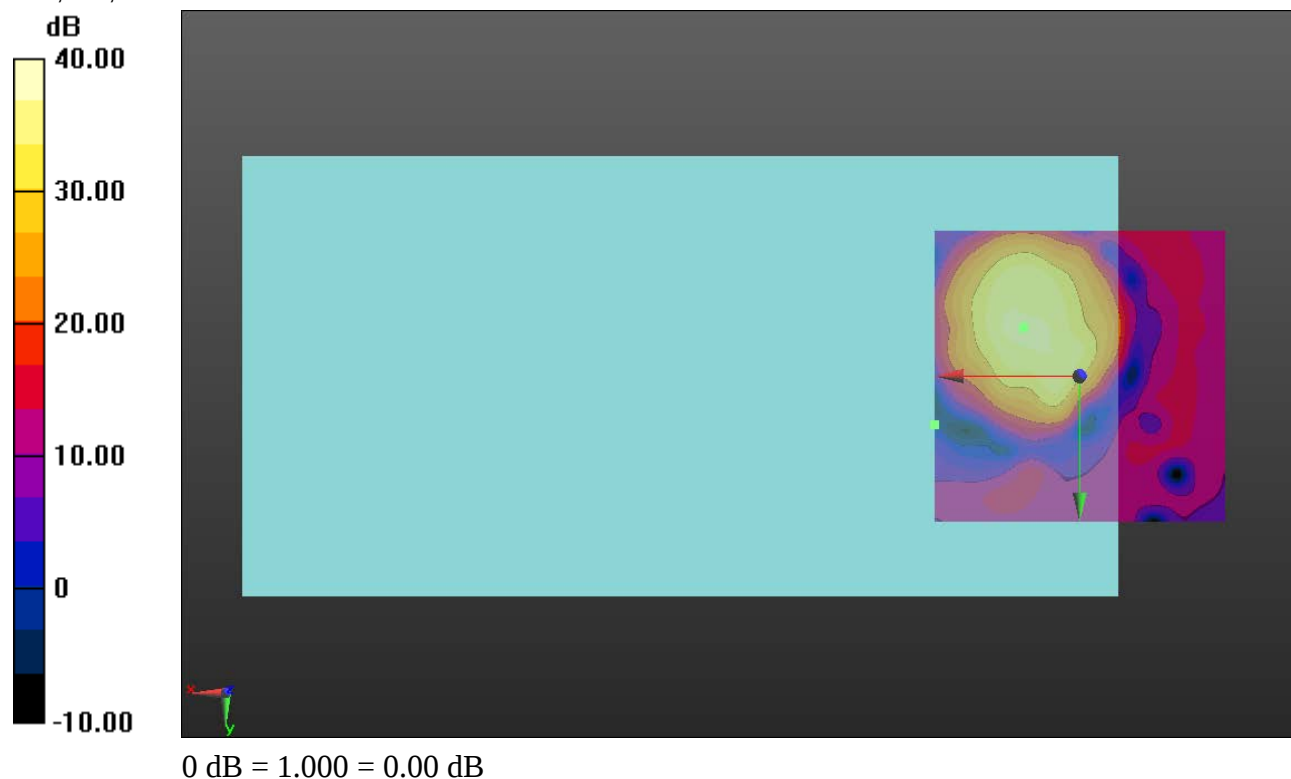
ABM1 comp = -1.34 dBA/m

BWC Factor = 0.16 dB

Location: 9.6, -8.3, 3.7 mm

ABM2 = -36.52 dBA/m

Location: 25, 8.3, 3.7 mm



## 802.11ac VHT80

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5210 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11acVHT80 MCS5 108Mbps Ch. 42 80MHz EVS 24.4kbps\_ANT 5/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 15.17

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

#### Cursor:

ABM1/ABM2 = 36.59 dB

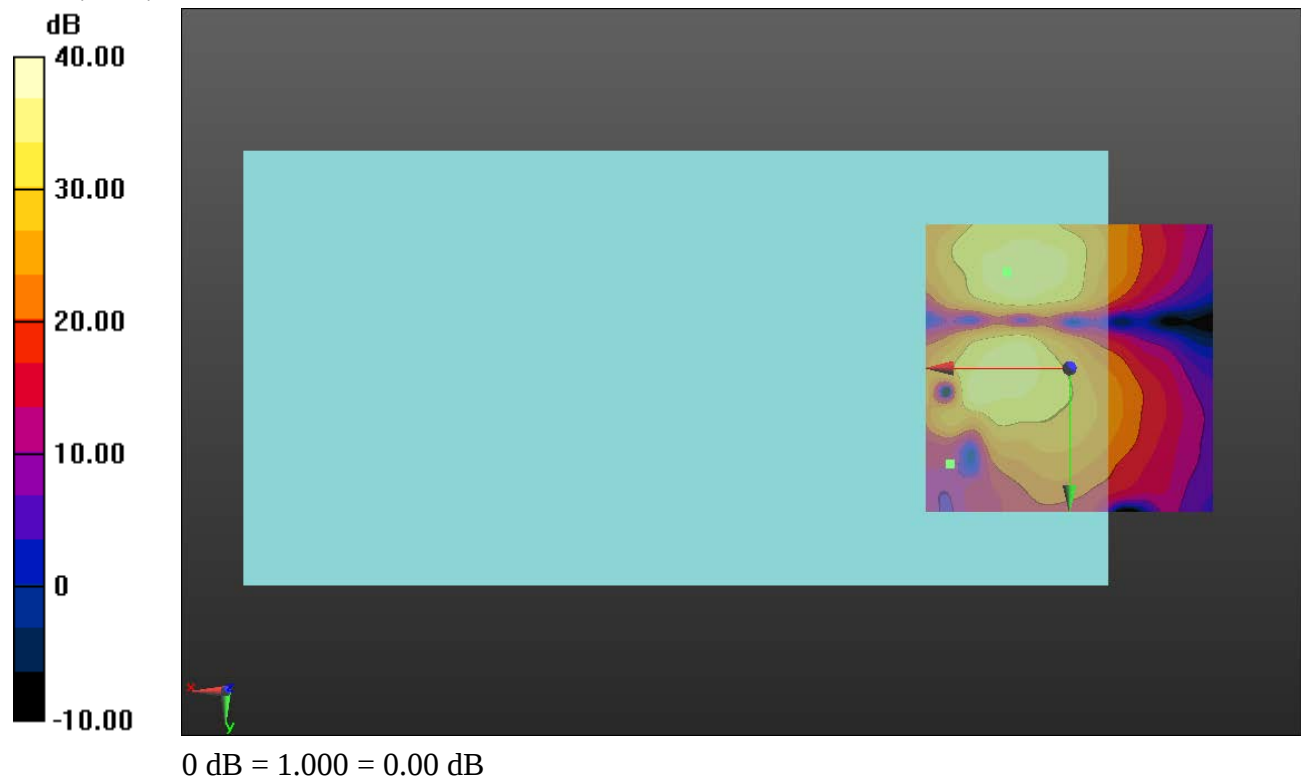
ABM1 comp = -9.43 dBA/m

BWC Factor = 0.16 dB

Location: 10.8, -16.7, 3.7 mm

ABM2 = -39.16 dBA/m

Location: 20.8, 16.7, 3.7 mm



**802.11ac VHT80**

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5290 MHz;Duty Cycle: 1:1

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11acVHT80 MCS5 108Mbps Ch. 58 80MHz EVS 24.4kbps\_ANT 5/z (axial) wideband at best S/N/ABM Freq**

**Resp(x,y,z,f) (1x1x1):** Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 29.75

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

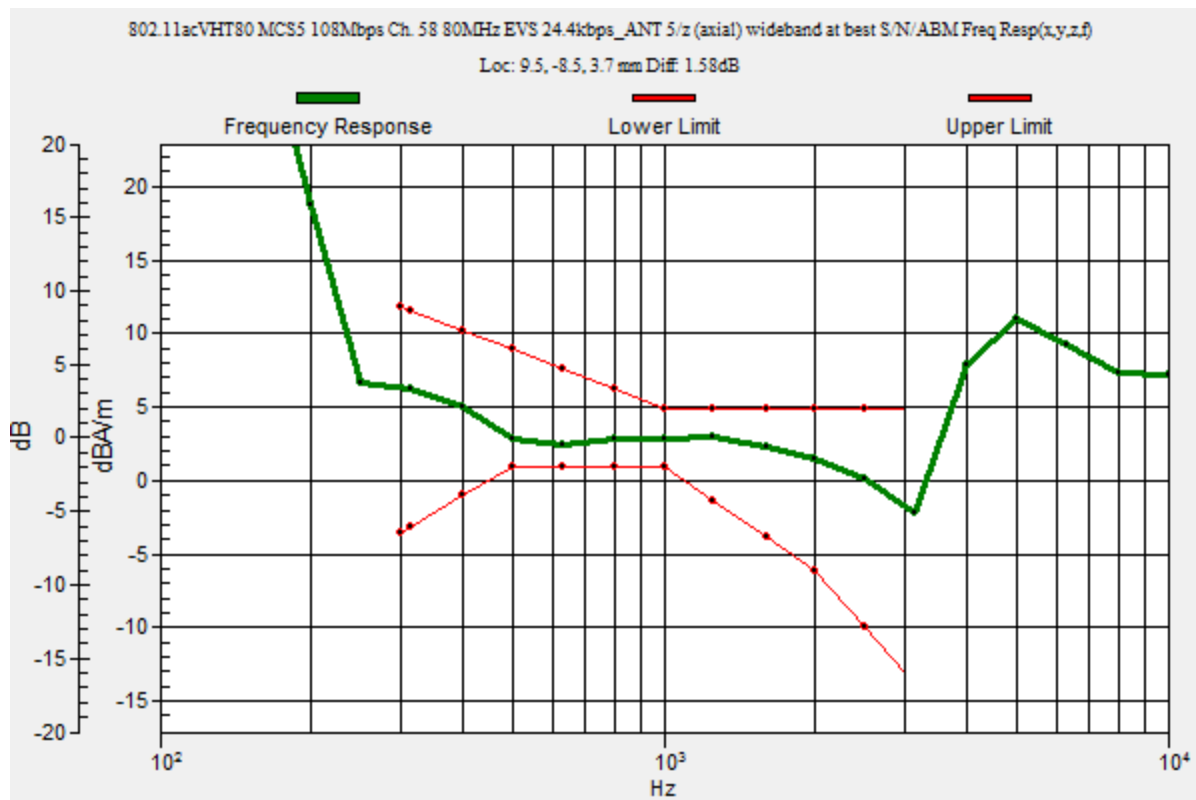
| Category    | Telephone parameters WD signal quality<br>[(signal+noise)-to-noise ratio in decibels] |
|-------------|---------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                         |
| Category T2 | 10 dB to 20 dB                                                                        |
| Category T3 | 20 dB to 30 dB                                                                        |
| Category T4 | > 30 dB                                                                               |

**Cursor:**

Diff = 1.58 dB

BWC Factor = 10.80 dB

Location: 9.5, -8.5, 3.7 mm



**802.11ac VHT80**

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5290 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11acVHT80 MCS5 108Mbps  
Ch. 58 80MHz EVS 24.4kbps\_ANT 5/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z)  
(121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 15.17

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

**Cursor:**

ABM1/ABM2 = 40.53 dB

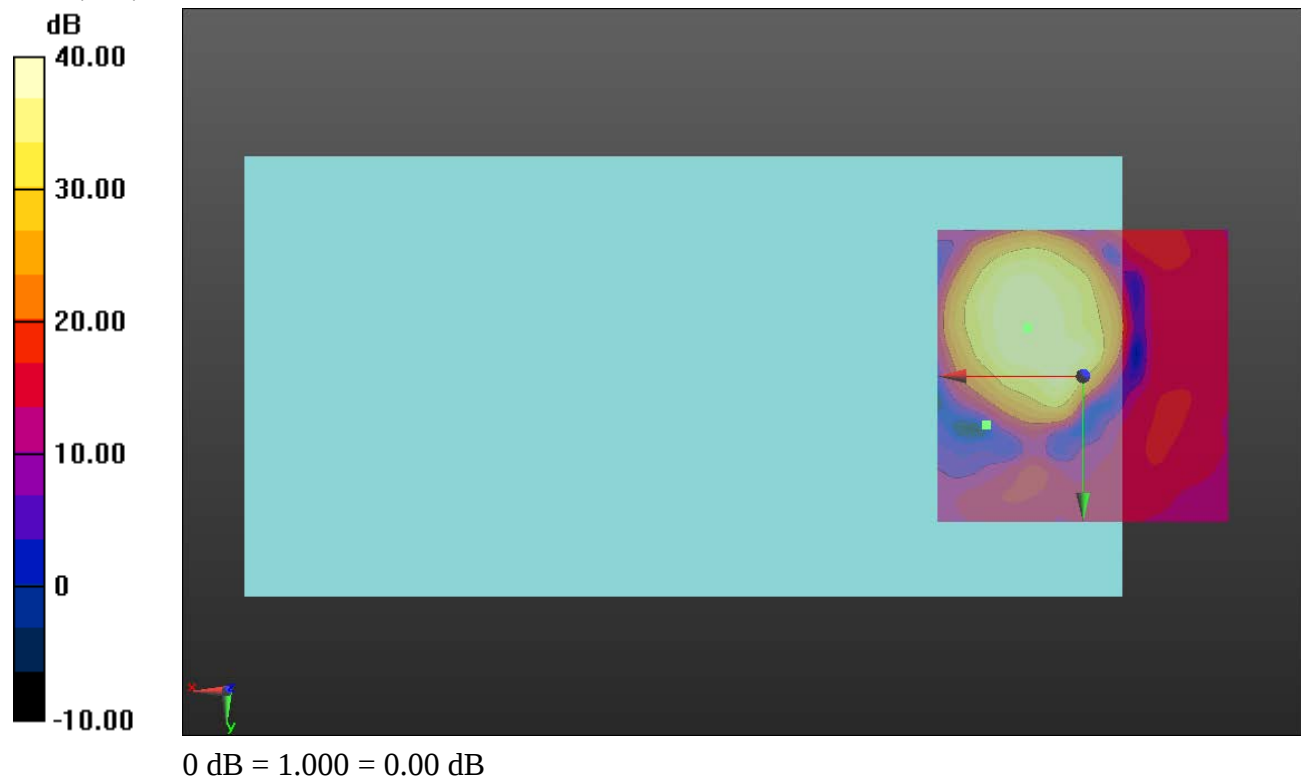
ABM1 comp = 3.76 dBA/m

BWC Factor = 0.16 dB

Location: 9.6, -8.3, 3.7 mm

ABM2 = -36.55 dBA/m

Location: 16.7, 8.3, 3.7 mm



**802.11ac VHT80**

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5290 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11acVHT80 MCS5 108Mbps  
Ch. 58 80MHz EVS 24.4kbps\_ANT 5/y (transversal) 4.2mm 50 x 50/ABM Interpolated  
SNR(x,y,z) (121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 15.17

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

**Cursor:**

ABM1/ABM2 = 38.67 dB

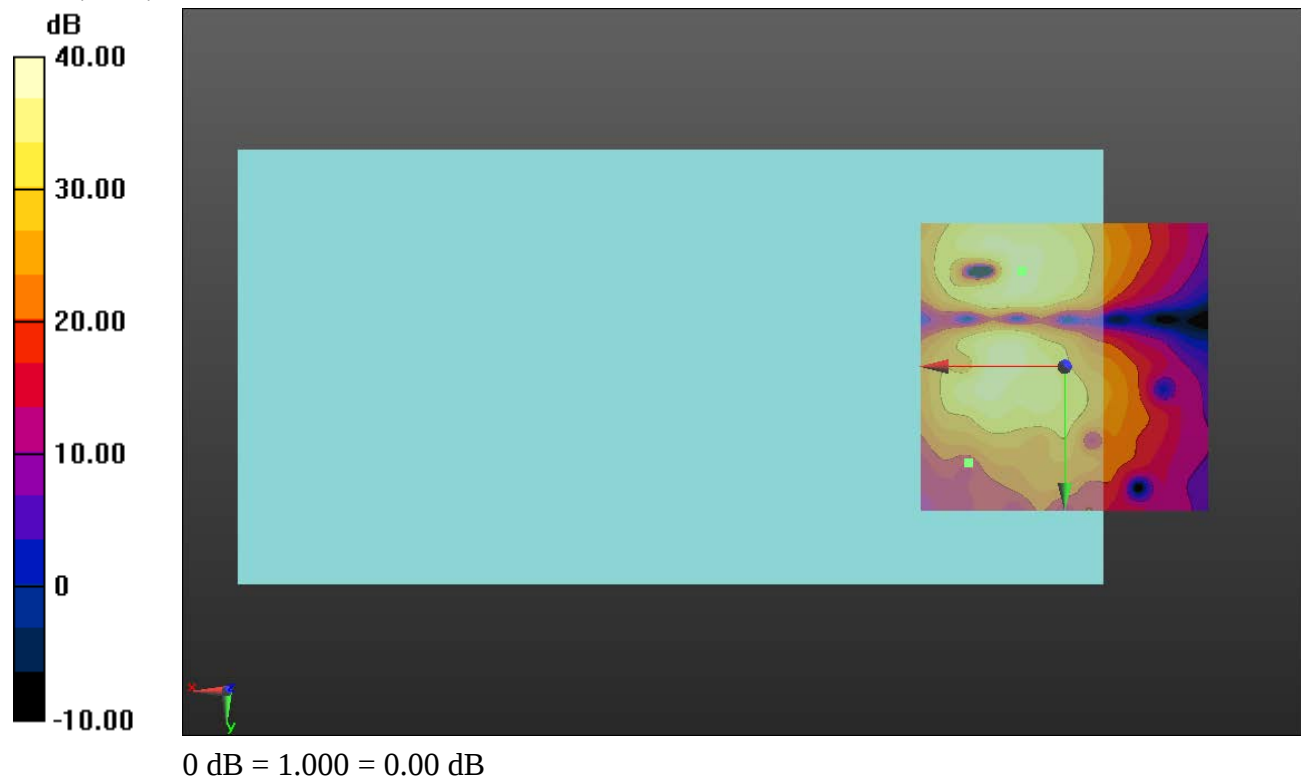
ABM1 comp = -5.28 dBA/m

BWC Factor = 0.16 dB

Location: 7.5, -16.7, 3.7 mm

ABM2 = -36.39 dBA/m

Location: 16.7, 16.7, 3.7 mm



**802.11ac VHT80**

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5530 MHz;Duty Cycle: 1:1

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11acVHT80 MCS5 108Mbps Ch. 106 80MHz EVS 24.4kbps\_ANT 5/z (axial) wideband at best S/N/ABM Freq**

**Resp(x,y,z,f) (1x1x1):** Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 29.75

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

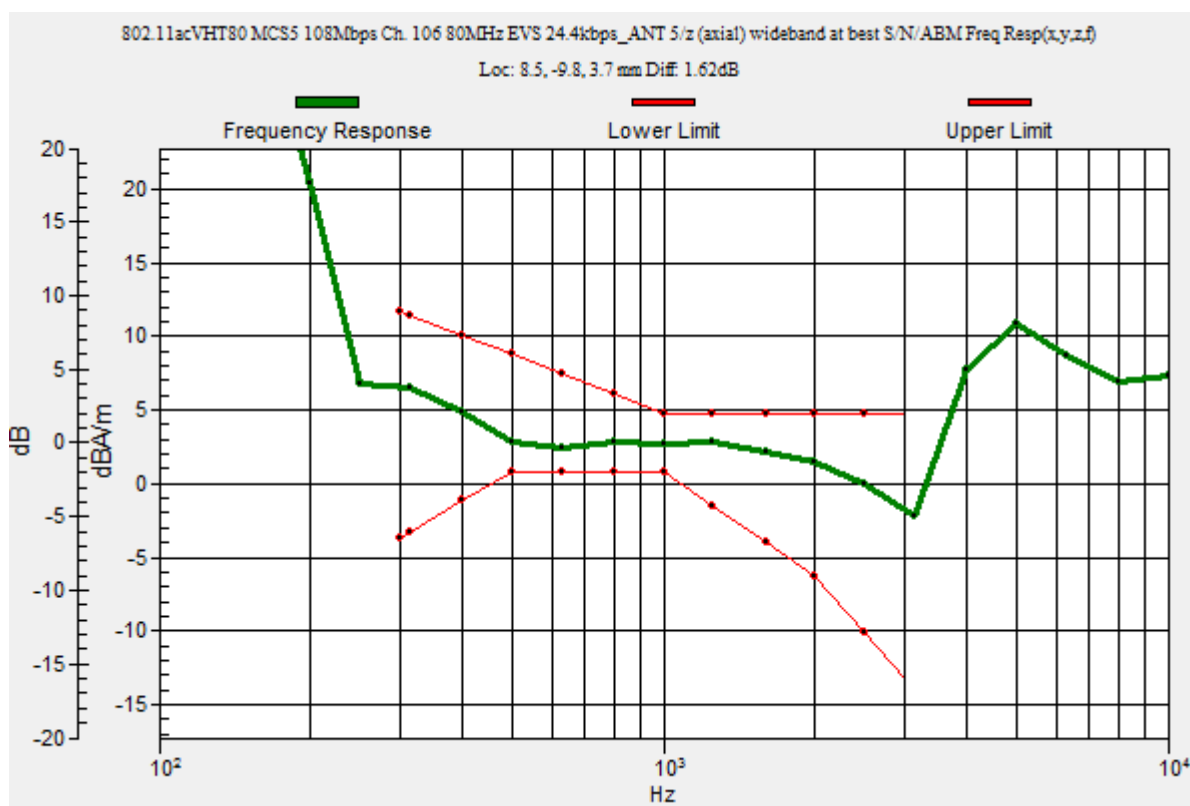
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| Category T2 | 10 dB to 20 dB                                                                     |
| Category T3 | 20 dB to 30 dB                                                                     |
| Category T4 | > 30 dB                                                                            |

**Cursor:**

Diff = 1.62 dB

BWC Factor = 10.80 dB

Location: 8.5, -9.8, 3.7 mm



**802.11ac VHT80**

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5530 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11acVHT80 MCS5 108Mbps  
Ch. 106 80MHz EVS 24.4kbps\_ANT 5/z (axial) 4.2mm 50 x 50/ABM Interpolated**

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 15.17

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

**Cursor:**

ABM1/ABM2 = 40.33 dB

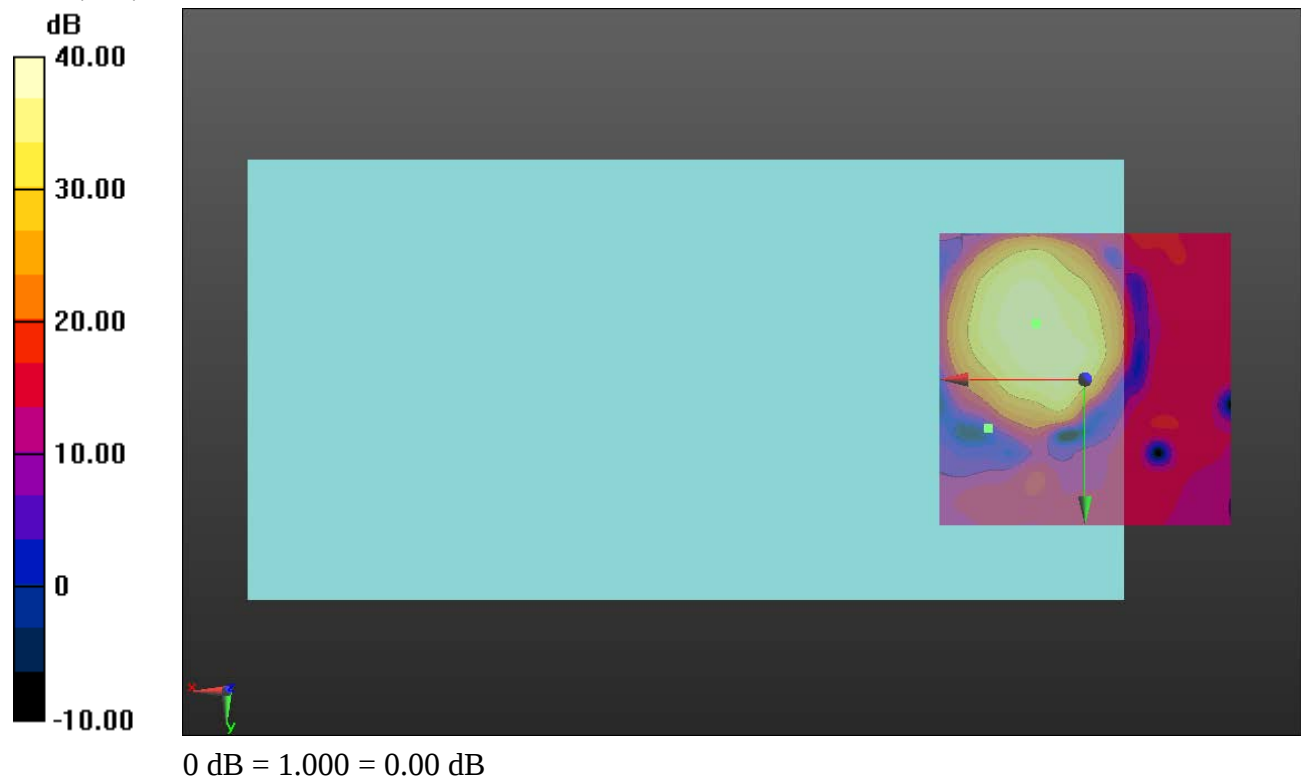
ABM1 comp = 3.58 dBA/m

BWC Factor = 0.16 dB

Location: 8.3, -9.6, 3.7 mm

ABM2 = -36.60 dBA/m

Location: 16.7, 8.3, 3.7 mm



## 802.11ac VHT80

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5530 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11acVHT80 MCS5 108Mbps  
Ch. 106 80MHz EVS 24.4kbps\_ANT 5/y (transversal) 4.2mm 50 x 50/ABM Interpolated  
SNR(x,y,z) (121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 15.17

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

### Cursor:

ABM1/ABM2 = 38.23 dB

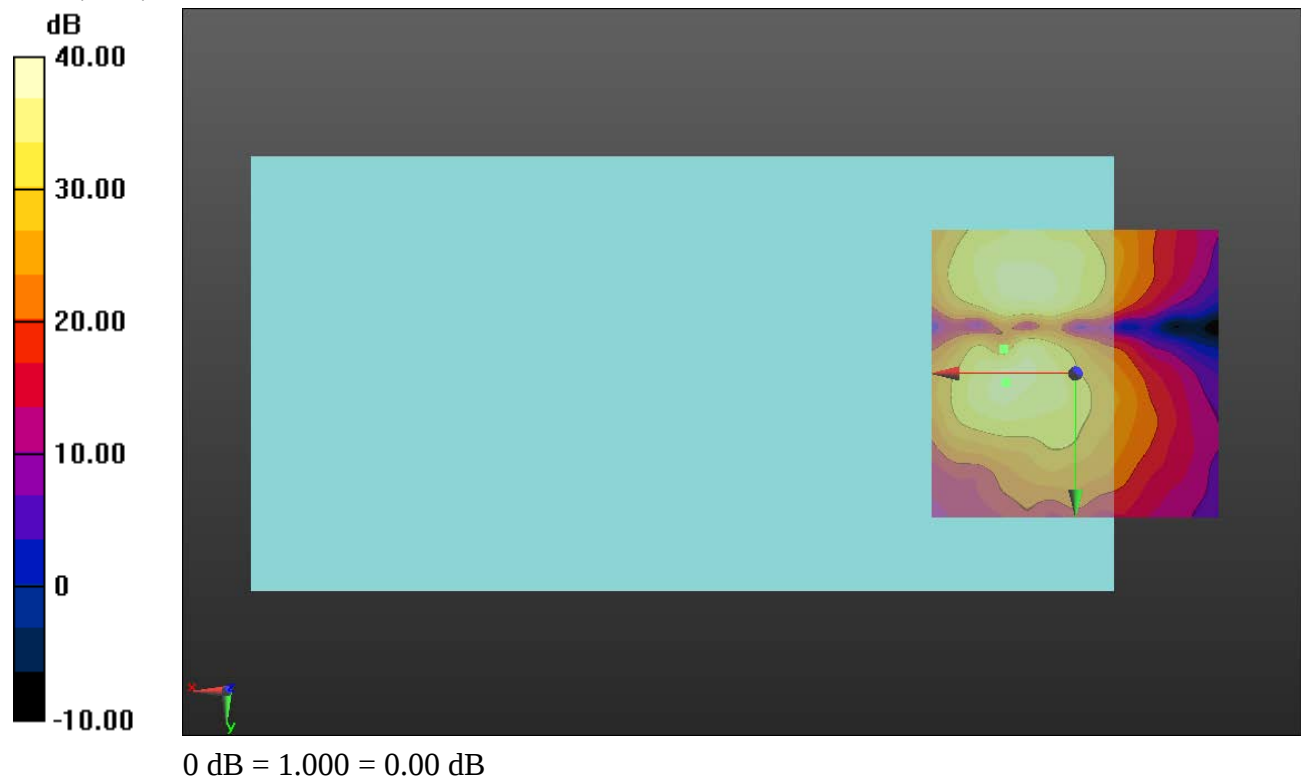
ABM1 comp = -6.31 dBA/m

BWC Factor = 0.16 dB

Location: 12.1, 1.7, 3.7 mm

ABM2 = -37.82 dBA/m

Location: 12.5, -4.2, 3.7 mm



**802.11ac VHT80**

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5775 MHz;Duty Cycle: 1:1

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11acVHT80 MCS5 108Mbps  
Ch. 155 80MHz EVS 24.4kbps\_ANT 5/z (axial) wideband at best S/N/ABM Freq**

**Resp(x,y,z,f) (1x1x1):** Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 29.75

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

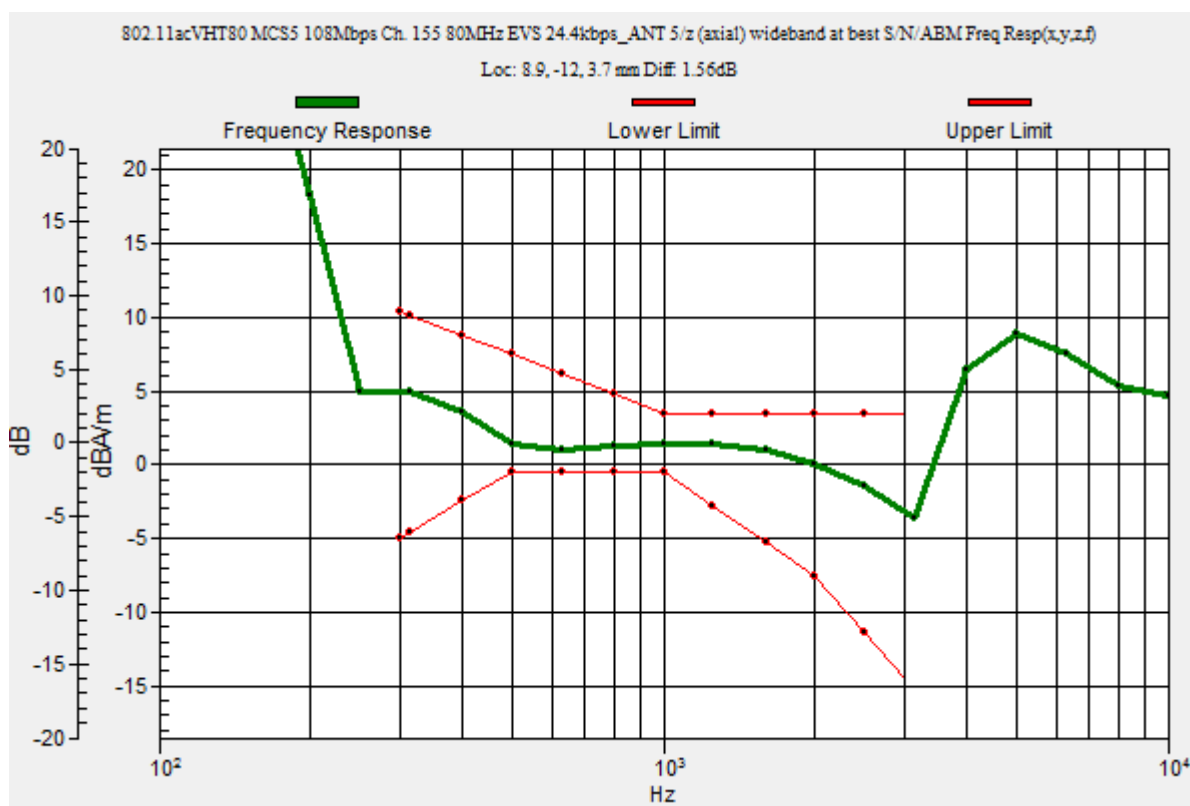
| Category    | Telephone parameters WD signal quality<br>[(signal+noise)-to-noise ratio in decibels] |
|-------------|---------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                         |
| Category T2 | 10 dB to 20 dB                                                                        |
| Category T3 | 20 dB to 30 dB                                                                        |
| Category T4 | > 30 dB                                                                               |

**Cursor:**

Diff = 1.56 dB

BWC Factor = 10.80 dB

Location: 8.9, -12, 3.7 mm



**802.11ac VHT80**

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5775 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11acVHT80 MCS5 108Mbps  
Ch. 155 80MHz EVS 24.4kbps\_ANT 5/z (axial) 4.2mm 50 x 50/ABM Interpolated**

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 15.17

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

**Cursor:**

ABM1/ABM2 = 40.36 dB

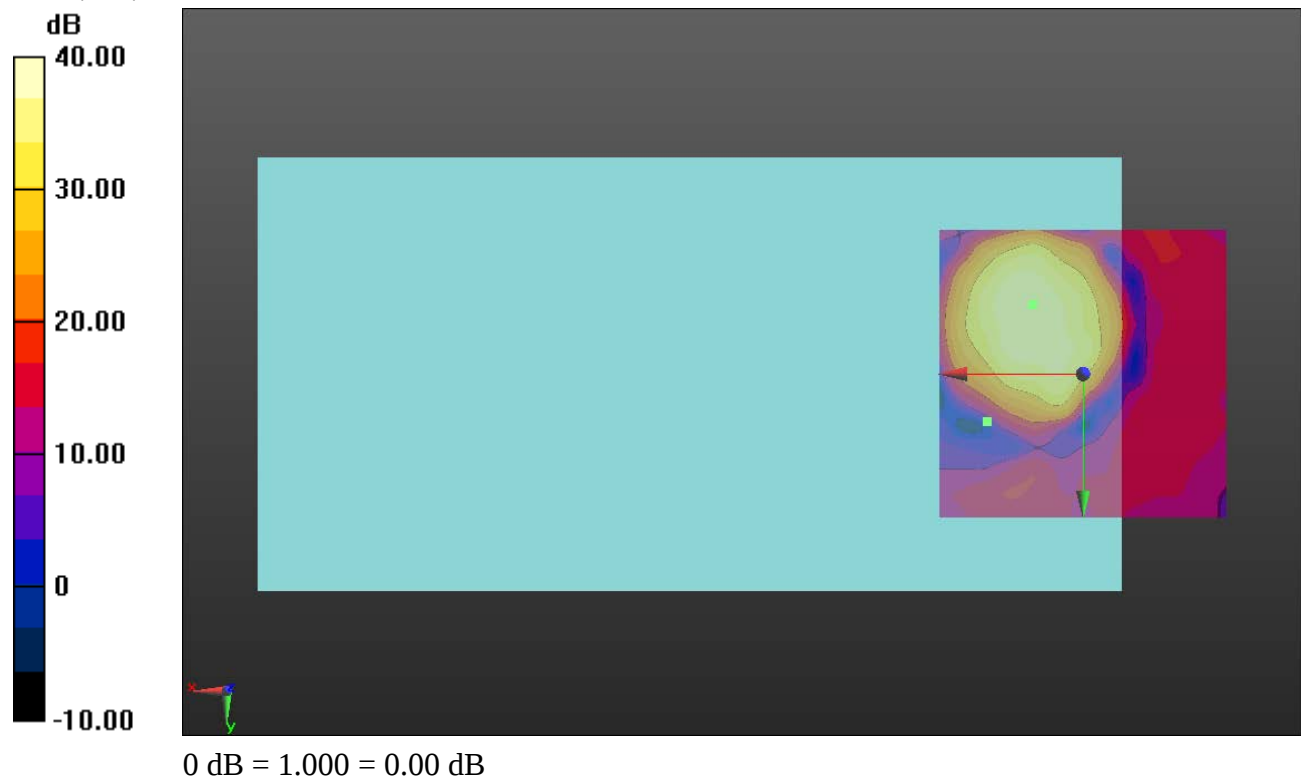
ABM1 comp = 2.40 dBA/m

BWC Factor = 0.16 dB

Location: 8.8, -12.1, 3.7 mm

ABM2 = -37.01 dBA/m

Location: 16.7, 8.3, 3.7 mm



**802.11ac VHT80**

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5775 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11acVHT80 MCS5 108Mbps  
Ch. 155 80MHz EVS 24.4kbps\_ANT 5/y (transversal) 4.2mm 50 x 50/ABM Interpolated  
SNR(x,y,z) (121x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 15.17

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

**Cursor:**

ABM1/ABM2 = 38.50 dB

ABM1 comp = -4.91 dBA/m

BWC Factor = 0.16 dB

Location: 8.8, -16.7, 3.7 mm

ABM2 = -39.46 dBA/m

Location: 20.8, 20.8, 3.7 mm

