

GSM

Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz;Duty Cycle: 1:8.30042

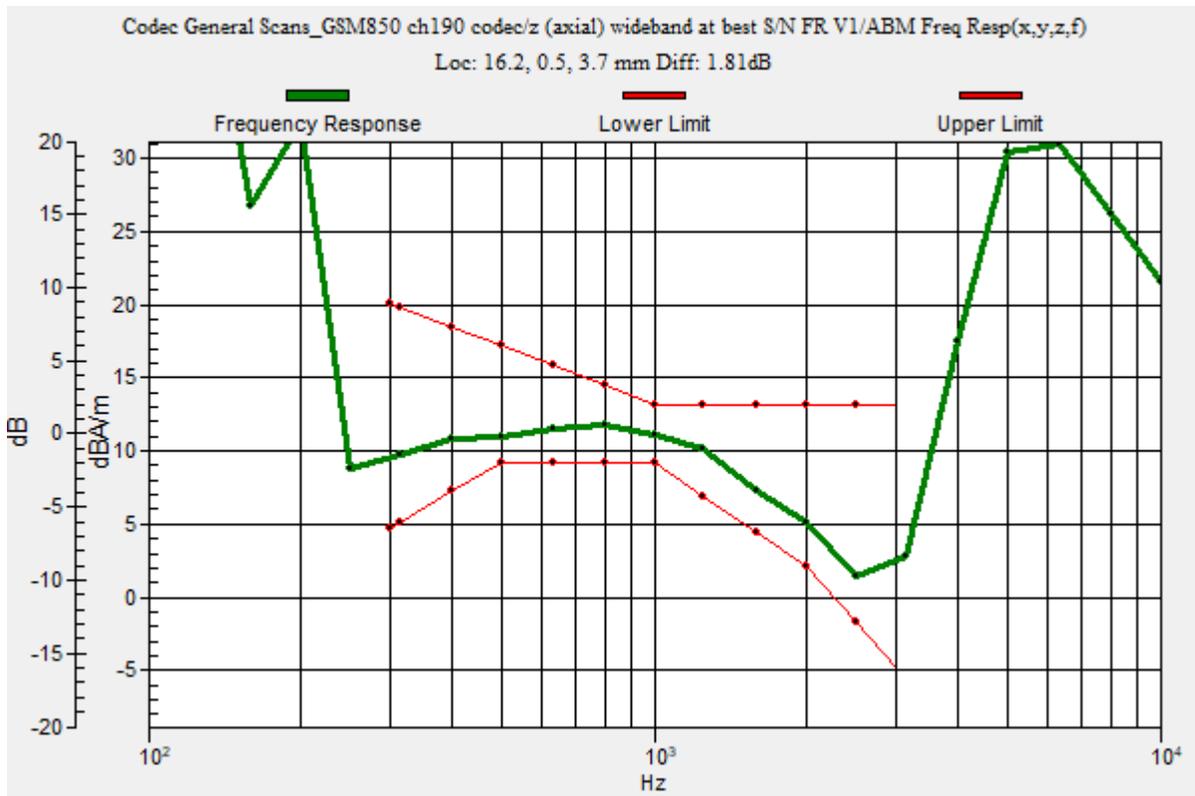
T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM850 ch190 codec/z (axial) wideband at best S/N FR V1/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav
 Output Gain: 47.64
 Measure Window Start: 300ms
 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 = 1.81 dB
 BWC Factor = 10.80 dB
 Location: 16.2, 0.5, 3.7 mm



GSM

Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM850 ch190 FR V1/z (axial)

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

mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.29

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

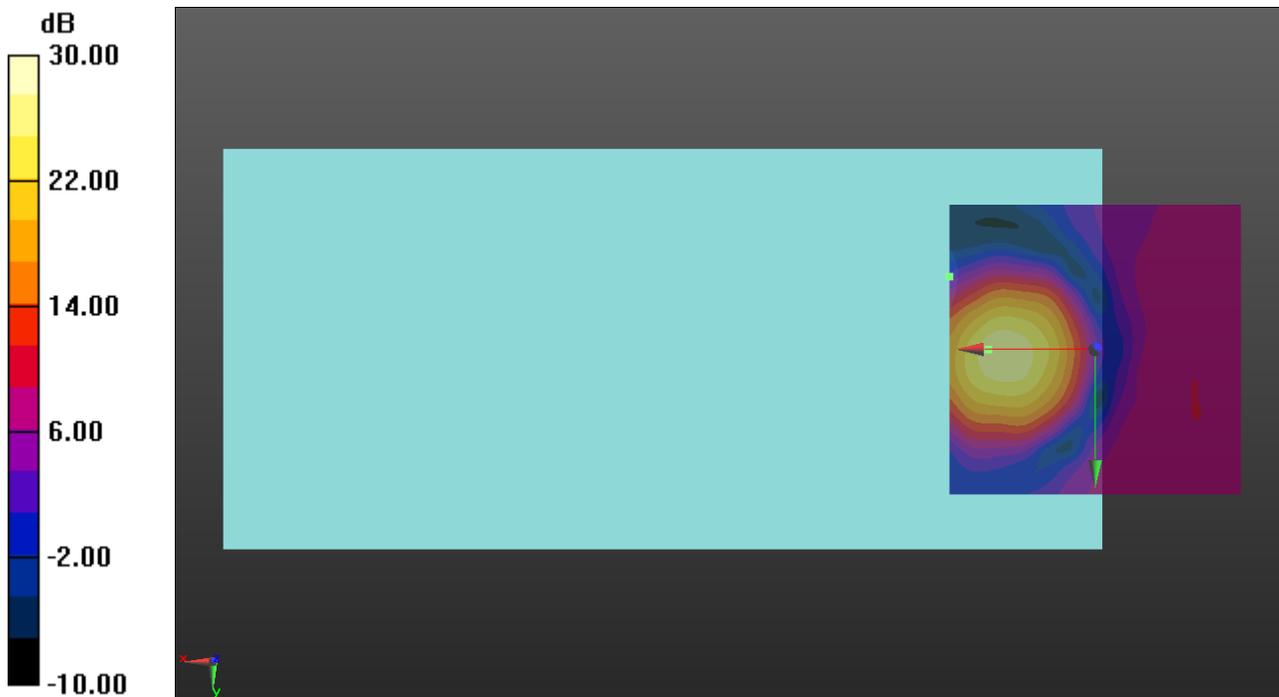
ABM1/ABM2 = 26.28 dB

ABM1 comp = 11.76 dBA/m

ABM2 = -14.52 dBA/m

BWC Factor = 0.16 dB

Location: 18.3, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

GSM

Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM850 ch190 FR V1/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: 24.29

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

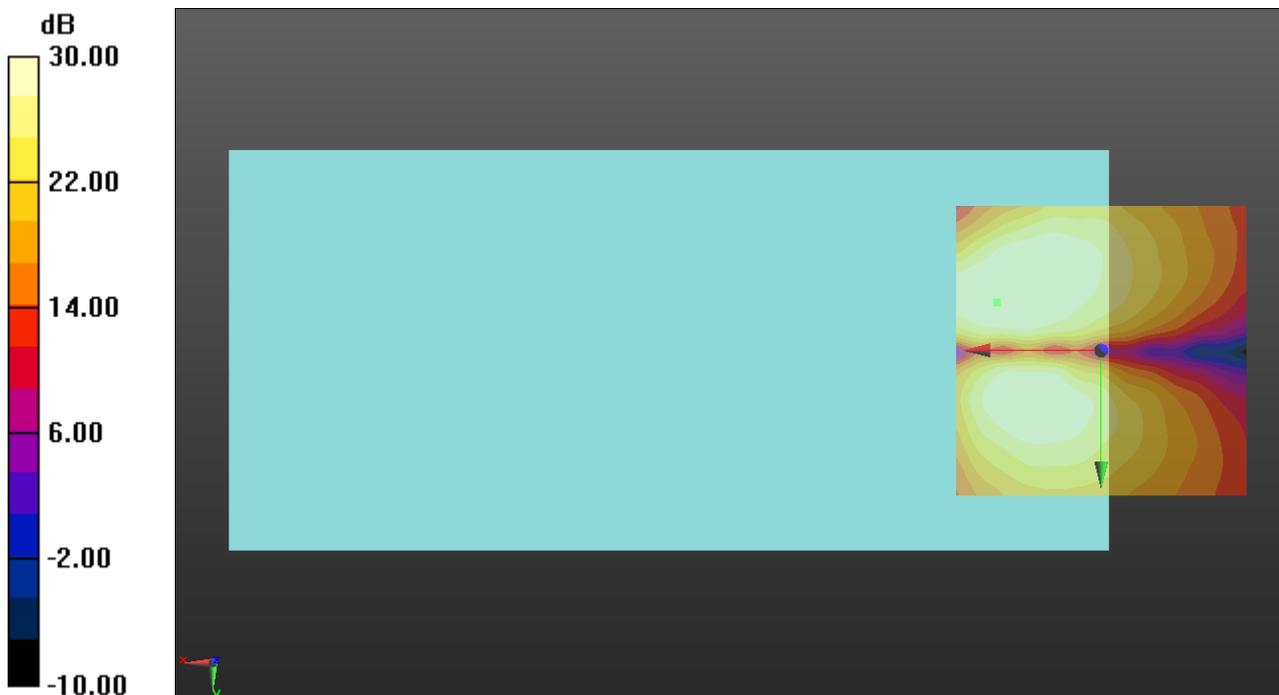
ABM1/ABM2 = 29.59 dB

ABM1 comp = 3.15 dBA/m

ABM2 = -26.44 dBA/m

BWC Factor = 0.16 dB

Location: 17.9, -8.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

GSM

Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz;Duty Cycle: 1:8.30042

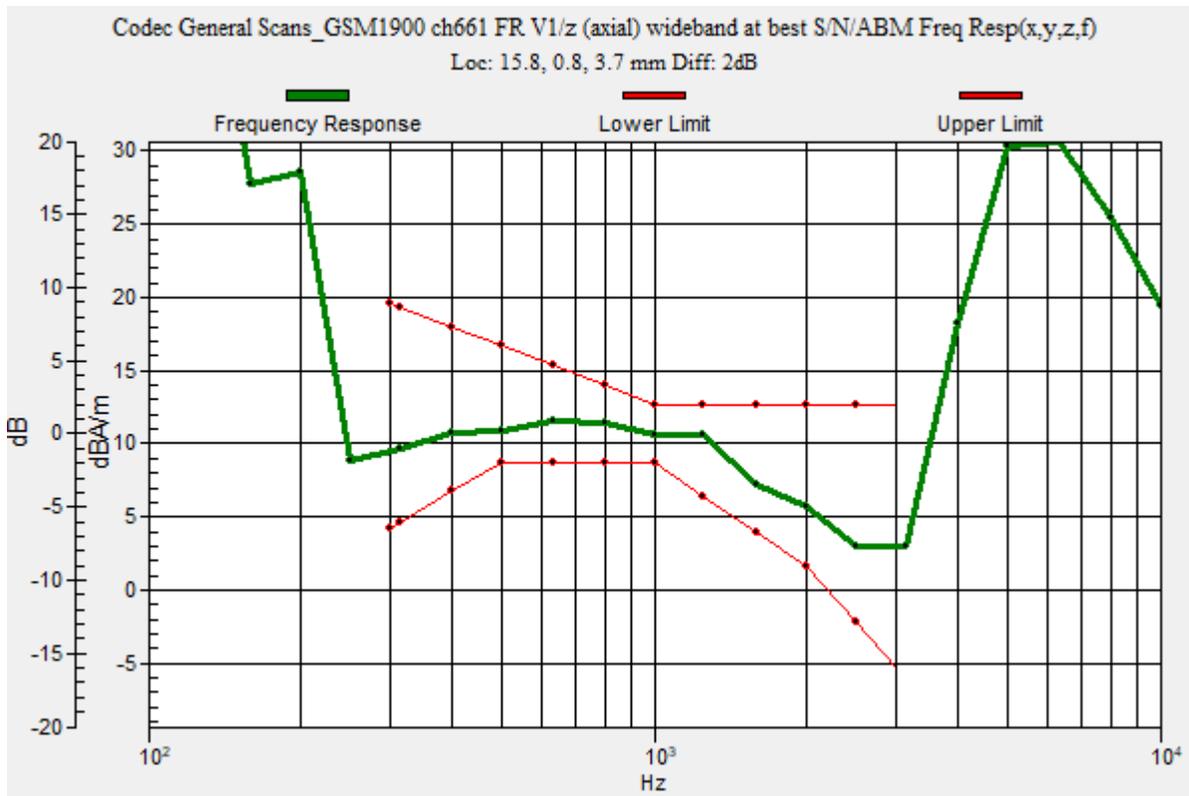
T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM1900 Voice ch661 FR V1/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav
 Output Gain: 47.64
 Measure Window Start: 300ms
 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 = 2.00 dB
 BWC Factor = 10.80 dB
 Location: 15.8, 0.8, 3.7 mm



GSM

Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM1900 Voice ch661 FR V1/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: 24.29

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

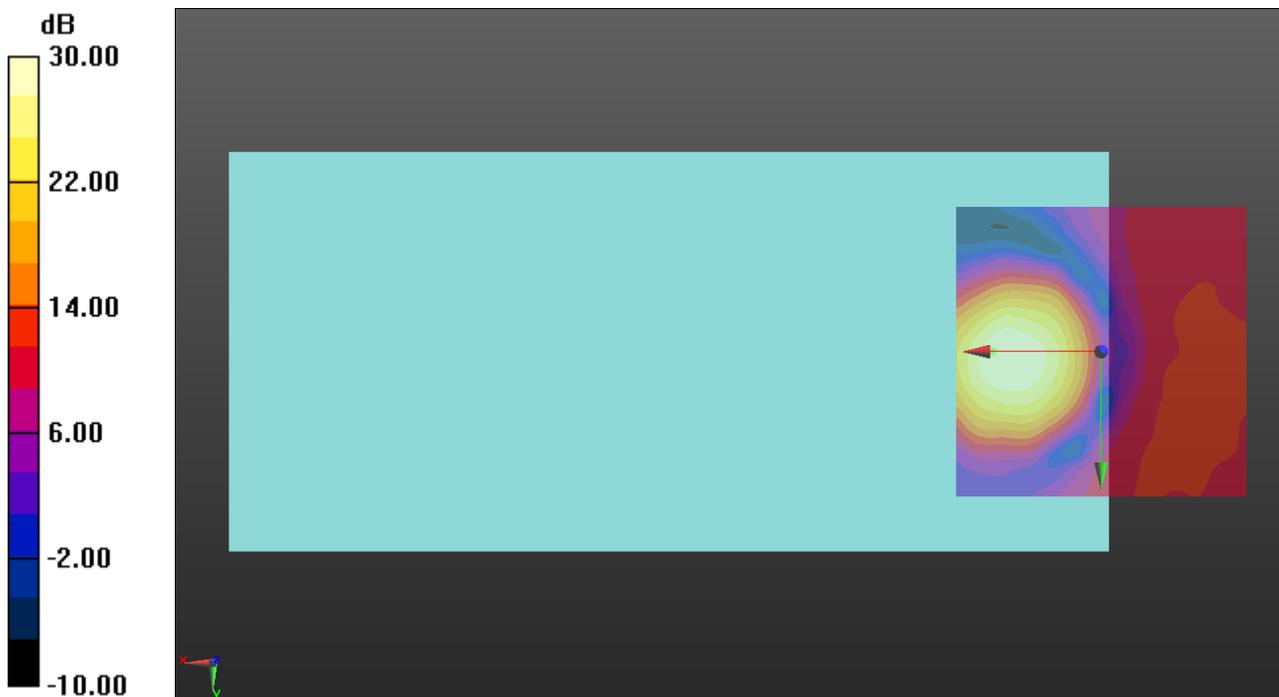
ABM1/ABM2 = 29.16 dB

ABM1 comp = 11.48 dBA/m

ABM2 = -17.68 dBA/m

BWC Factor = 0.16 dB

Location: 18.8, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

GSM

Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM1900 Voice ch661 FR V1/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: 24.29

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

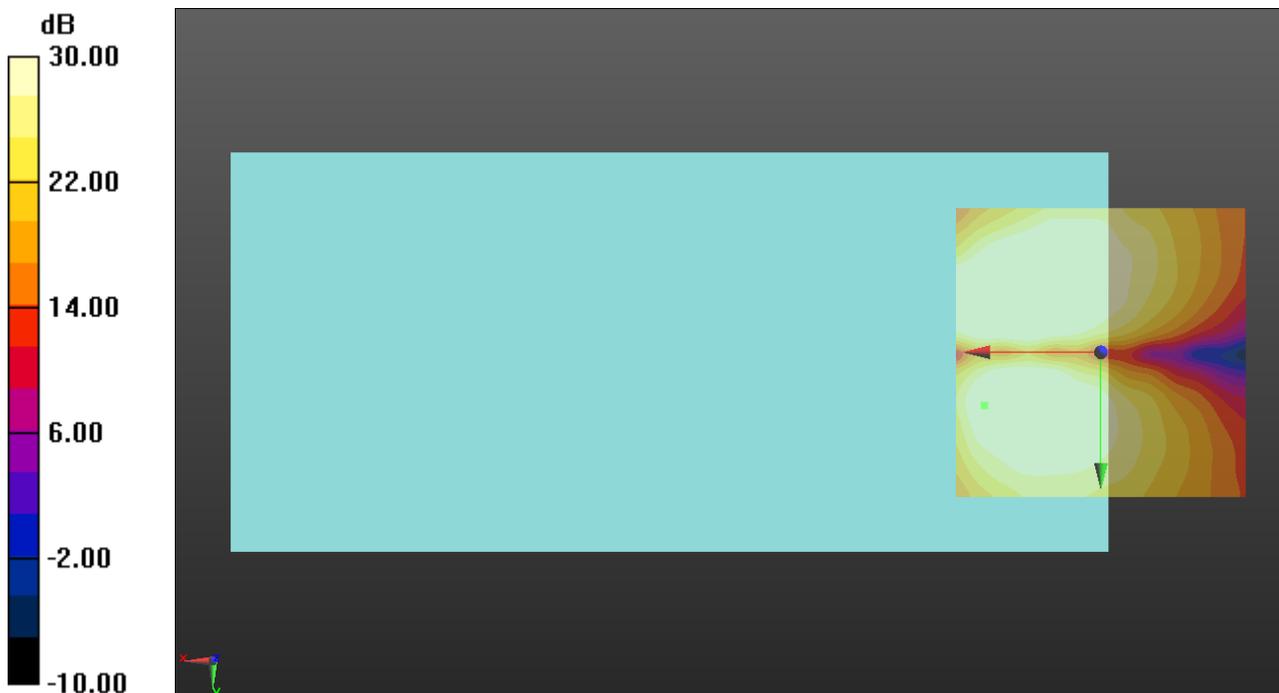
ABM1/ABM2 = 31.74 dB

ABM1 comp = 3.44 dBA/m

ABM2 = -28.30 dBA/m

BWC Factor = 0.16 dB

Location: 20, 9.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

WCDMA

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 ch9400 WB

AMR 6.6/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: 47.64

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

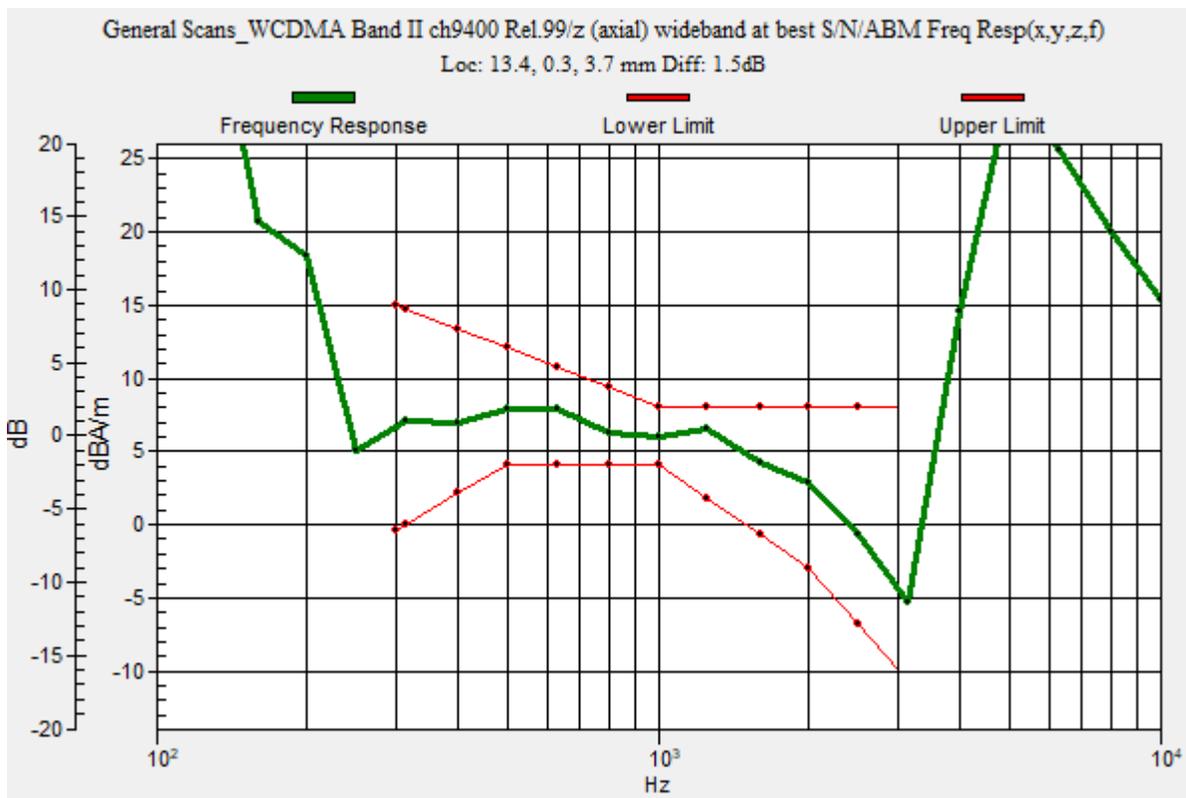
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.50 dB

BWC Factor = 10.80 dB

Location: 13.4, 0.3, 3.7 mm



WCDMA

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band II ch9400 WB

AMR 6.6/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: 24.29

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

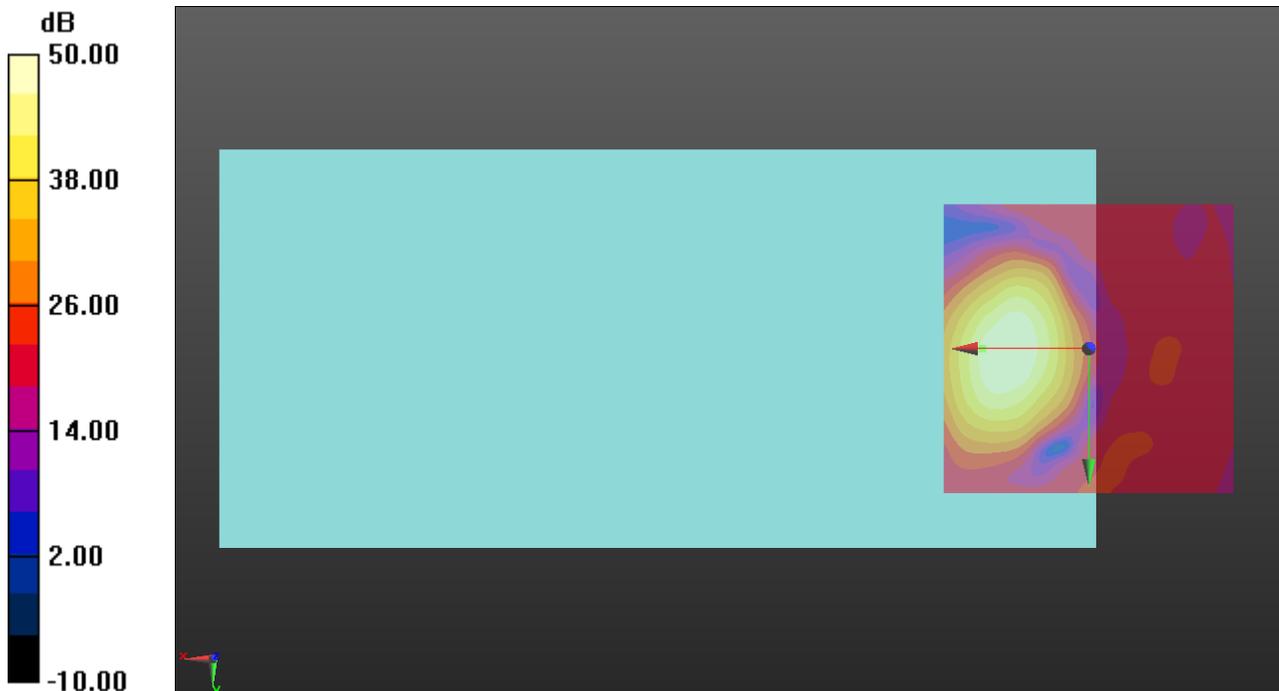
ABM1/ABM2 = 47.04 dB

ABM1 comp = 7.83 dBA/m

ABM2 = -39.21 dBA/m

BWC Factor = 0.16 dB

Location: 18.3, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

WCDMA

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band II ch9400 WB AMR 6.6/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: 24.29

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

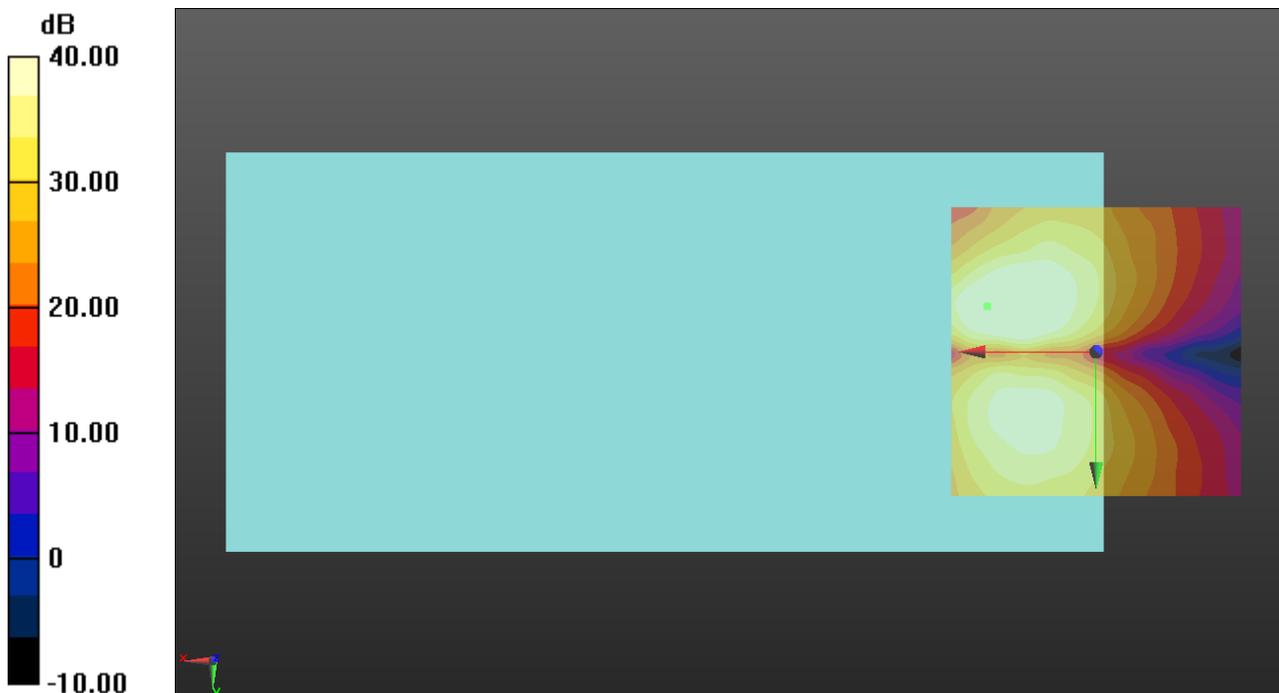
ABM1/ABM2 = 42.45 dB

ABM1 comp = -0.57 dBA/m

ABM2 = -43.02 dBA/m

BWC Factor = 0.16 dB

Location: 18.8, -7.9, 3.7 mm



0 dB = 1.000 = 0.00 dB

WCDMA

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 ch1413 WB AMR 6.6/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: 47.64

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

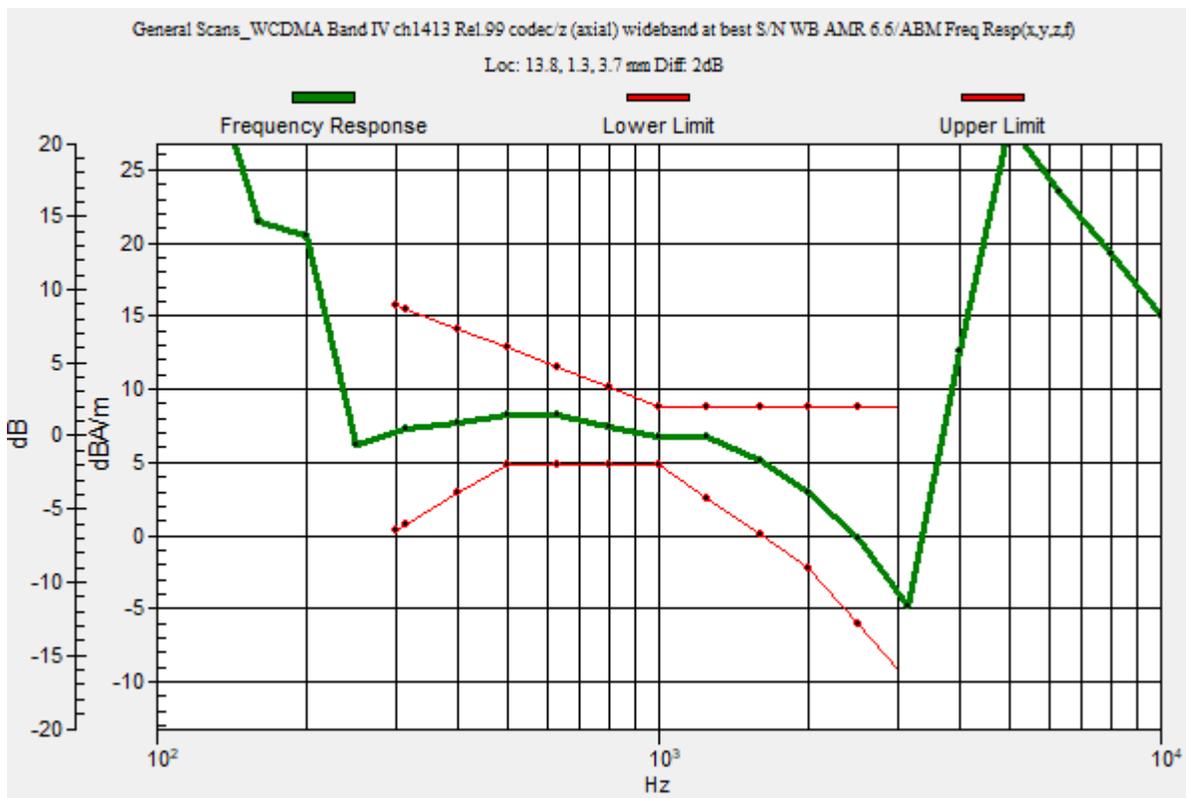
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: 13.8, 1.3, 3.7 mm



WCDMA

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band IV ch1413 WB

AMR 6.6/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: 24.29

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

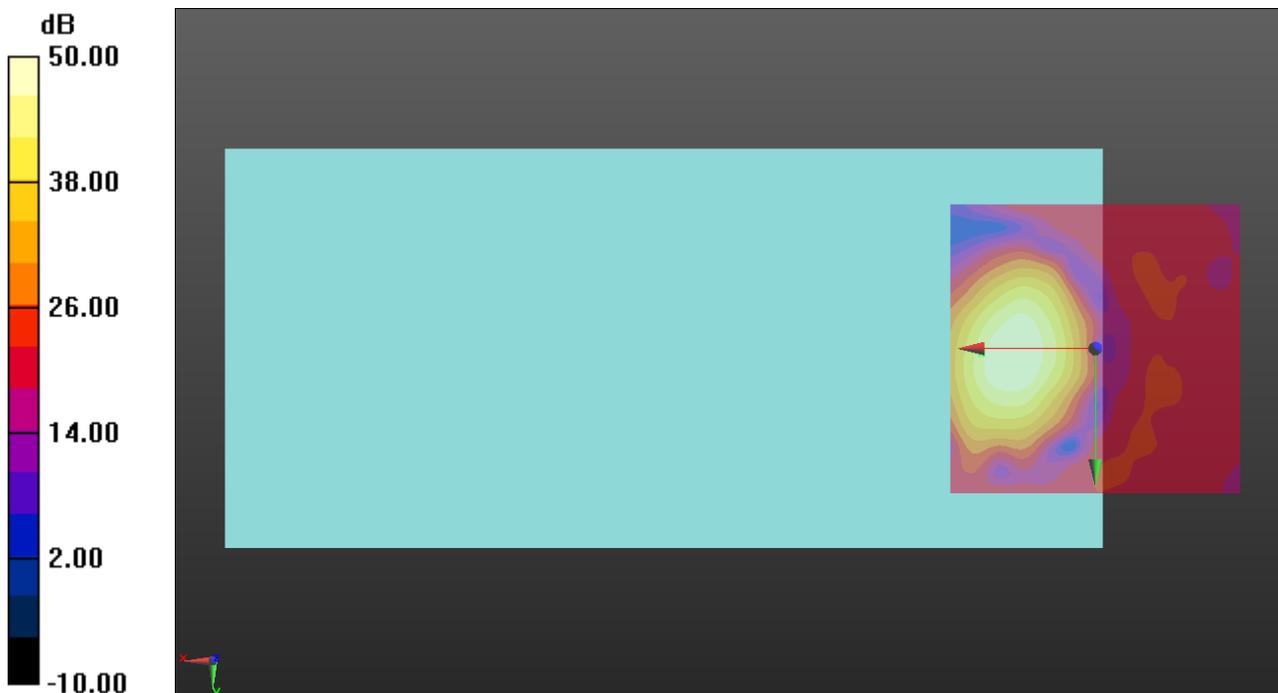
ABM1/ABM2 = 44.65 dB

ABM1 comp = 7.52 dBA/m

ABM2 = -37.13 dBA/m

BWC Factor = 0.16 dB

Location: 19.6, 0.8, 3.7 mm



0 dB = 1.000 = 0.00 dB

WCDMA

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band IV ch1413 WB AMR 6.6/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: 24.29

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

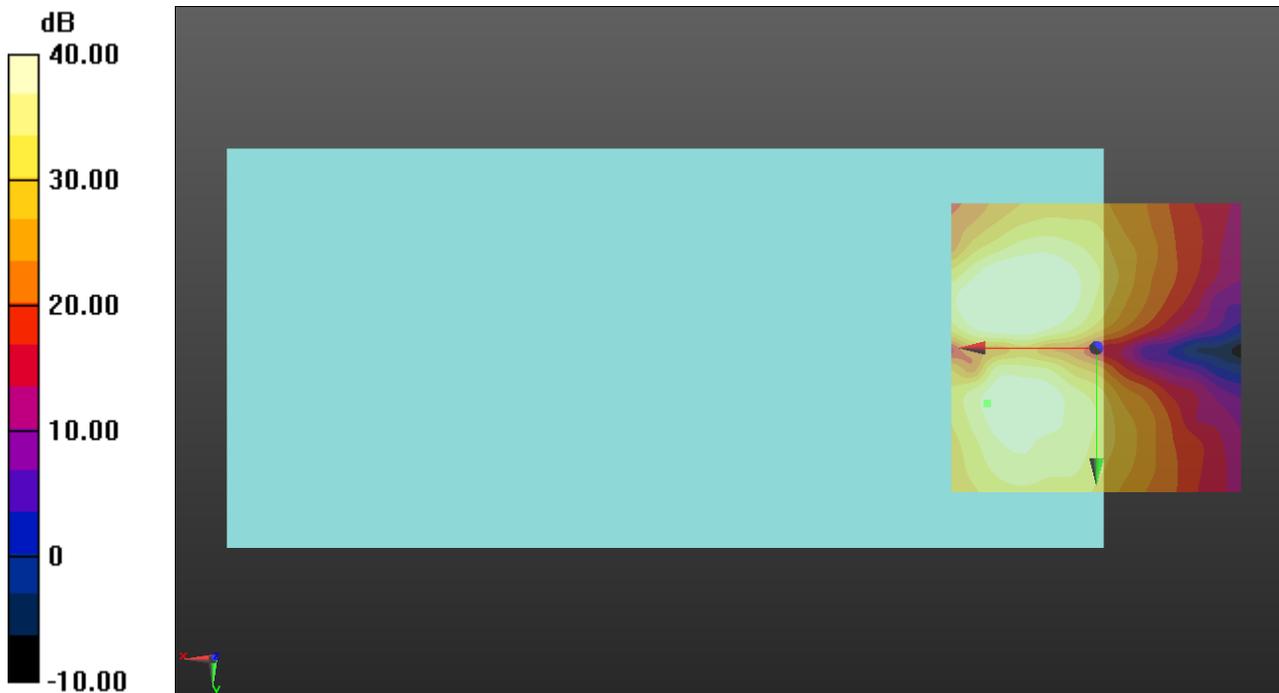
ABM1/ABM2 = 37.77 dB

ABM1 comp = -0.62 dBA/m

ABM2 = -38.39 dBA/m

BWC Factor = 0.16 dB

Location: 18.8, 9.6, 3.7 mm



0 dB = 1.000 = 0.00 dB

WCDMA

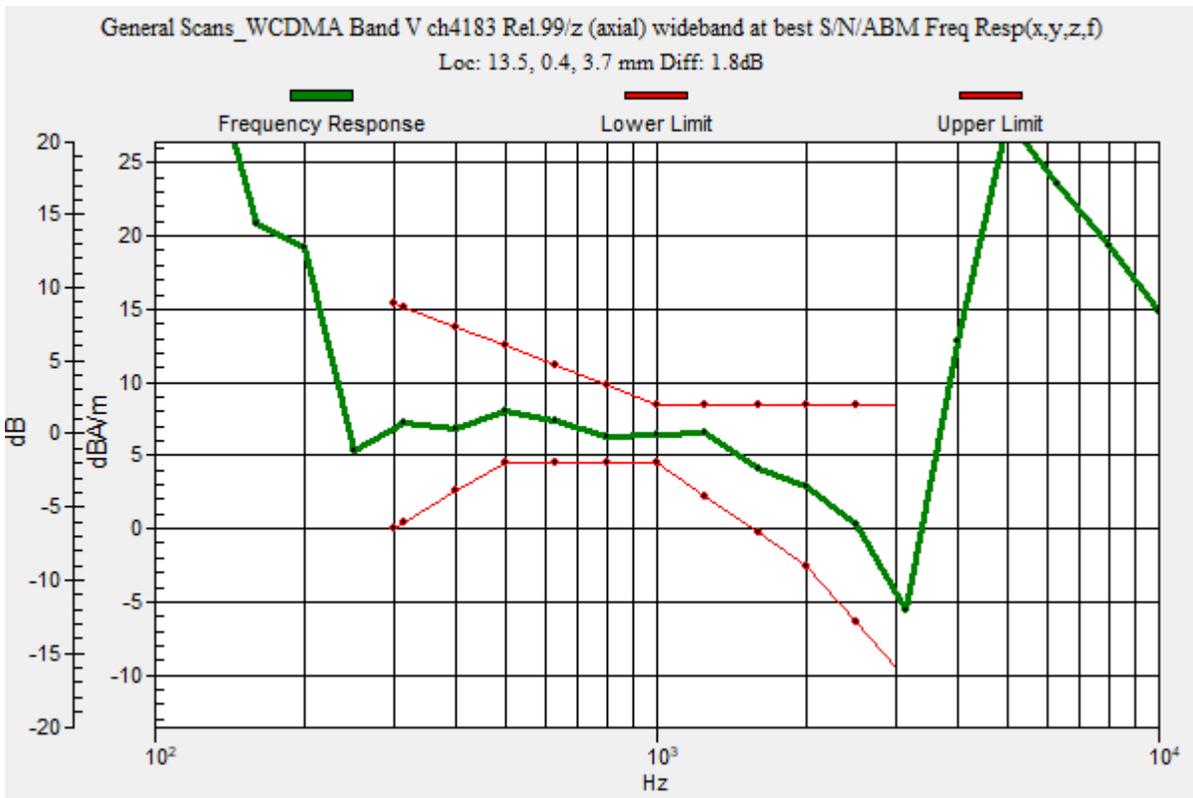
Communication System: UID 0, UMTS-FDD (WCDMA) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band V ch4183 WB AMR 6.6/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: 47.64
 Measure Window Start: 300ms
 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 = 1.80 dB
 BWC Factor = 10.80 dB
 Location: 13.5, 0.4, 3.7 mm



WCDMA

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band V ch4183 WB

AMR 6.6/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: 24.29

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

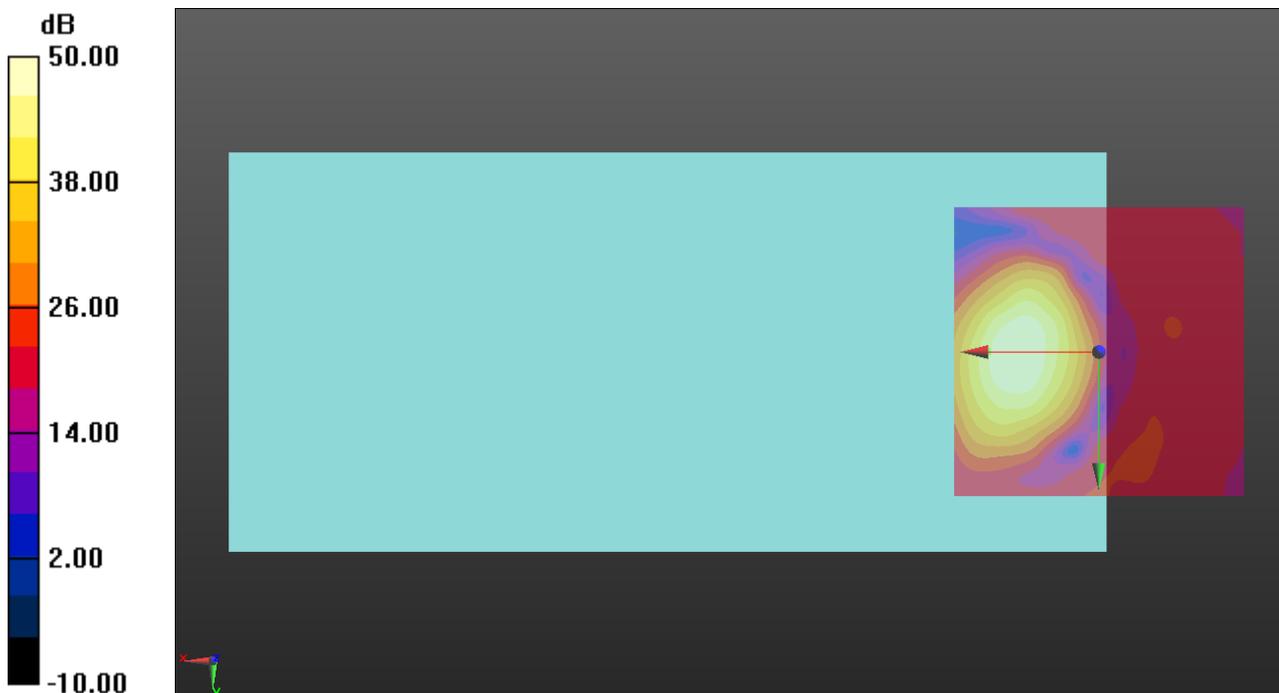
ABM1/ABM2 = 45.41 dB

ABM1 comp = 7.78 dBA/m

ABM2 = -37.63 dBA/m

BWC Factor = 0.16 dB

Location: 19.2, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

WCDMA

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band V ch4183 WB AMR 6.6/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: 24.29

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

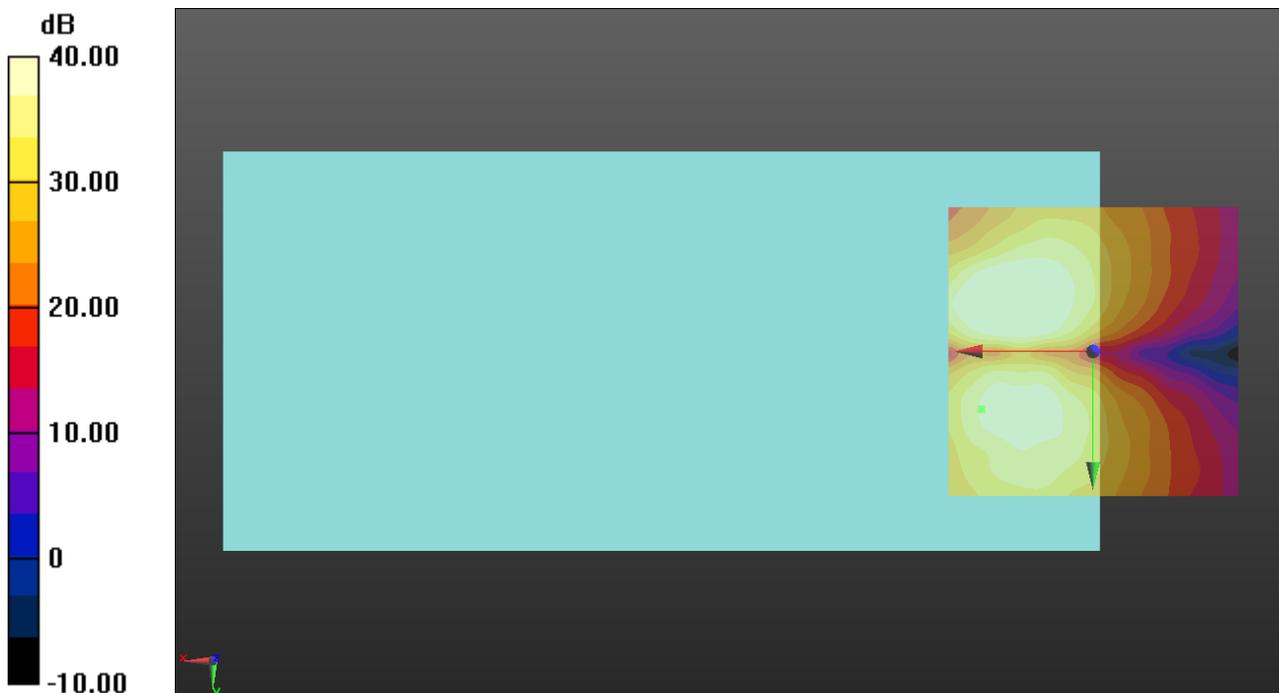
ABM1/ABM2 = 37.27 dB

ABM1 comp = -0.77 dBA/m

ABM2 = -38.04 dBA/m

BWC Factor = 0.16 dB

Location: 19.2, 10, 3.7 mm



0 dB = 1.000 = 0.00 dB

VoLTE FDD

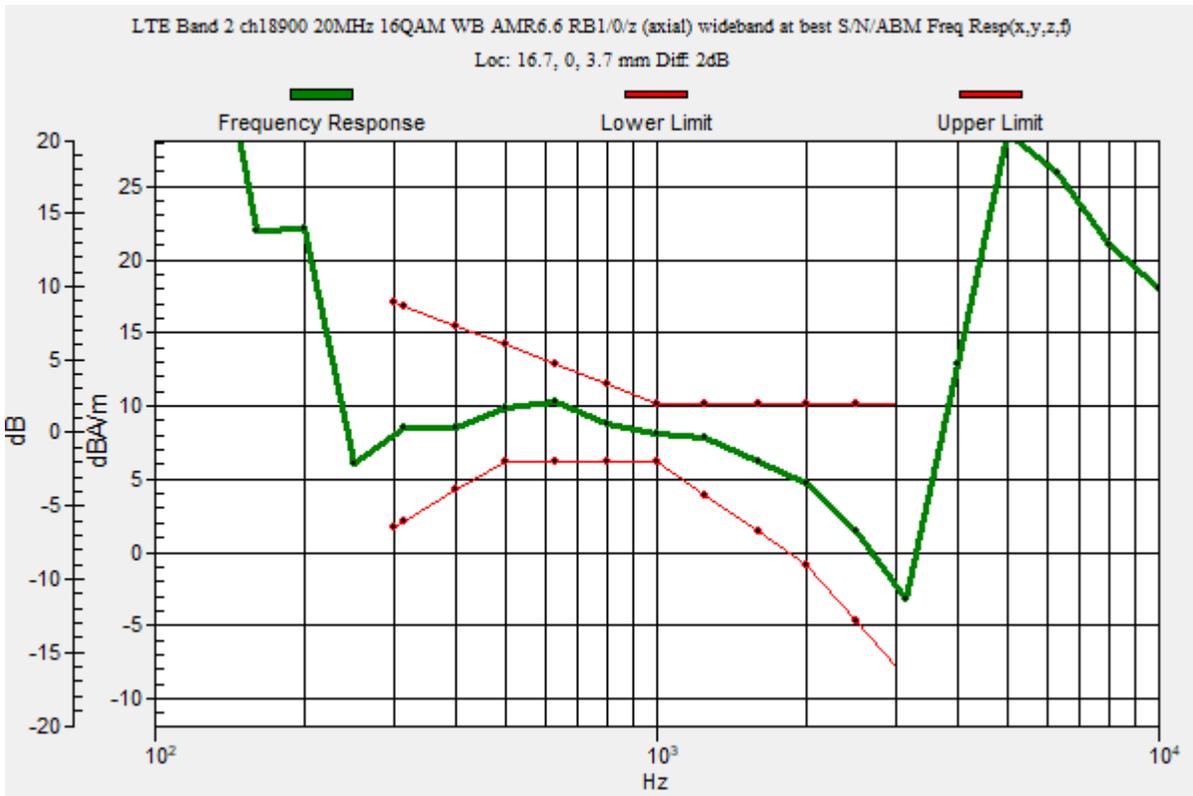
Communication System: UID 0, LTE (FDD) (0); Frequency: 1880 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/VoLTE Band 2 ch18900 20MHz 16QAM WB AMR6.6 RB1/0/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: 47.64
 Measure Window Start: 300ms
 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 = 2.00 dB
 BWC Factor = 10.80 dB
 Location: 16.7, 0, 3.7 mm



VoLTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/VoLTE Band 2 ch18900 20MHz 16QAM WB AMR6.6 RB1/0/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: 24.29

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

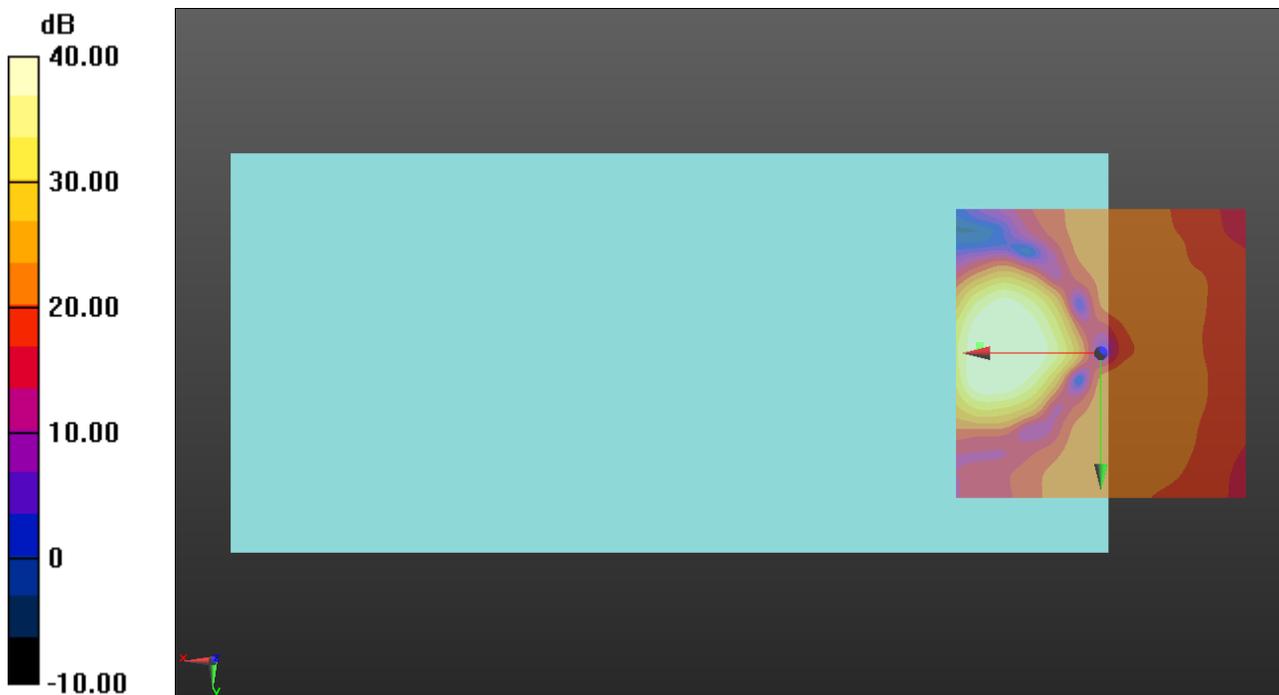
ABM1/ABM2 = 40.36 dB

ABM1 comp = 8.91 dBA/m

ABM2 = -31.45 dBA/m

BWC Factor = 0.16 dB

Location: 20.8, -1.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

VoLTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 2 ch18900 20MHz 16QAM WB AMR6.6 RB1/0/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: 24.29

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

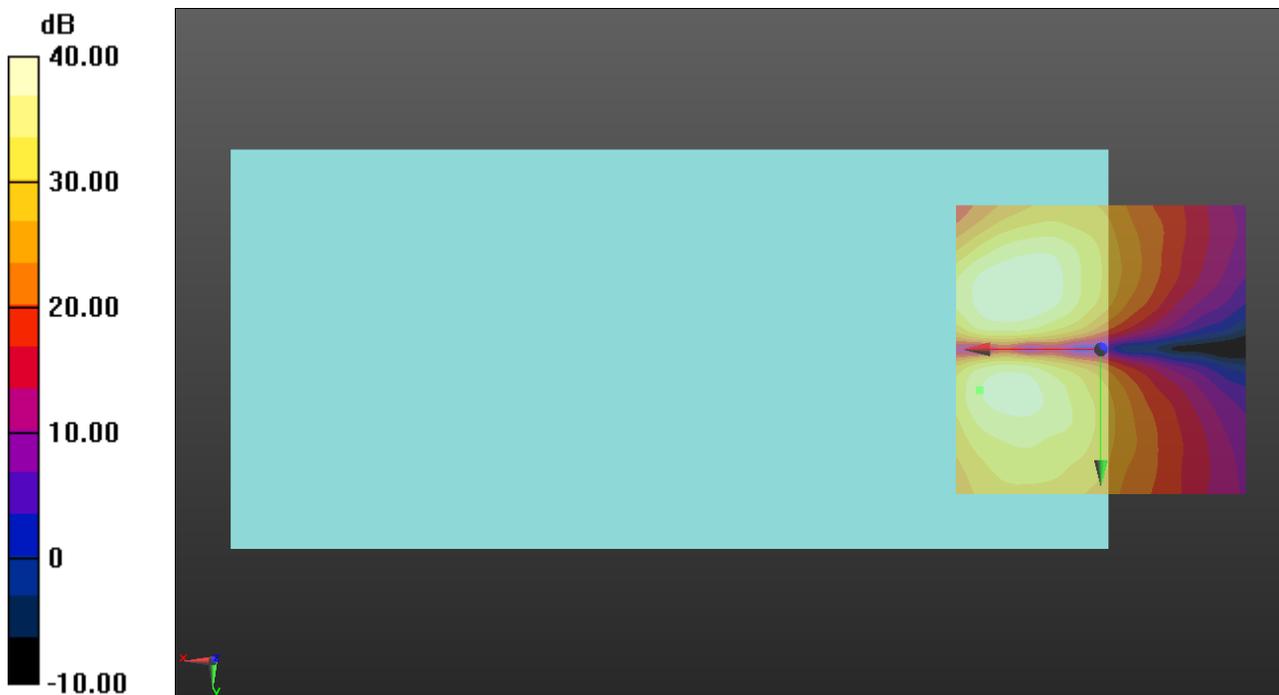
ABM1/ABM2 = 36.38 dB

ABM1 comp = 1.37 dBA/m

ABM2 = -35.01 dBA/m

BWC Factor = 0.16 dB

Location: 20.8, 7.1, 3.7 mm



0 dB = 1.000 = 0.00 dB

VoLTE FDD

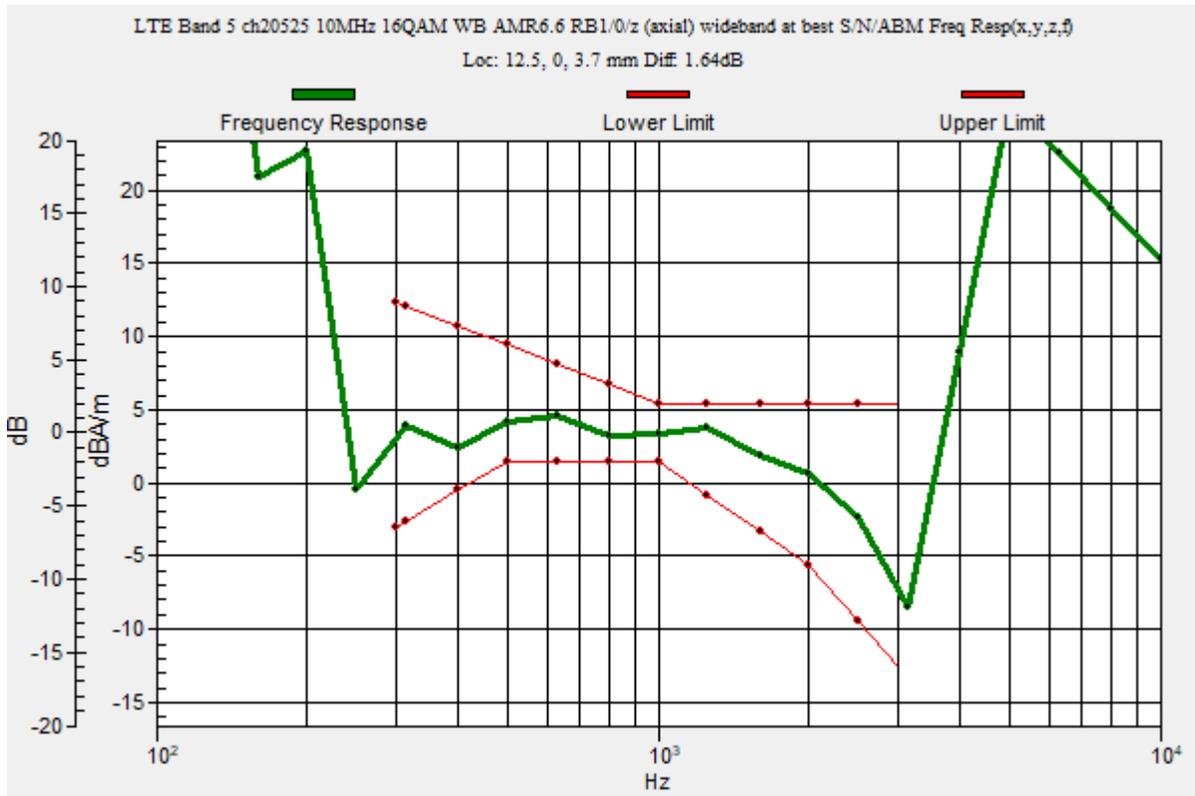
Communication System: UID 0, LTE (FDD) (0); Frequency: 1745 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 5 ch20525 10MHz 16QAM WB AMR6.6 RB1/0/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: 47.64
 Measure Window Start: 300ms
 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 = 1.64 dB
 BWC Factor = 10.80 dB
 Location: 12.5, 0, 3.7 mm



VoLTE FDD

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 5 ch20525 10MHz 16QAM WB AMR6.6 RB1/0/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: 24.29

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

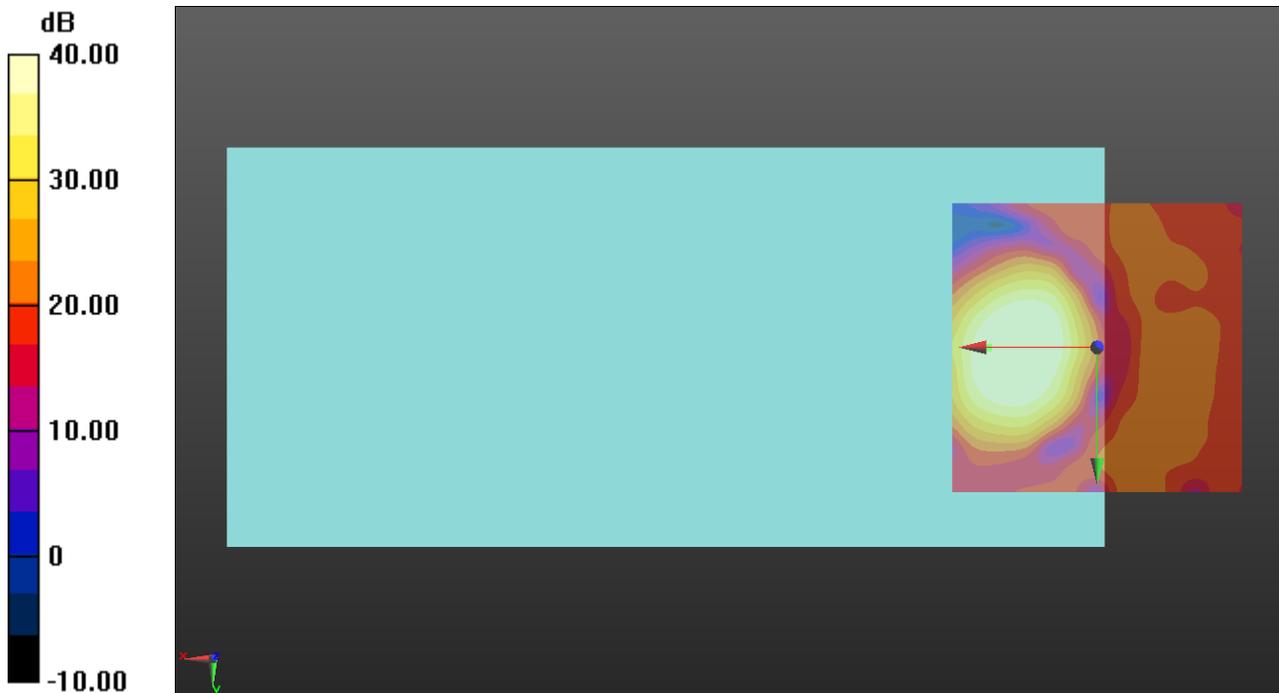
ABM1/ABM2 = 41.40 dB

ABM1 comp = 7.80 dBA/m

ABM2 = -33.60 dBA/m

BWC Factor = 0.16 dB

Location: 18.8, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

VoLTE FDD

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 5 ch20525 10MHz 16QAM WB AMR6.6 RB1/0/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: 24.29

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

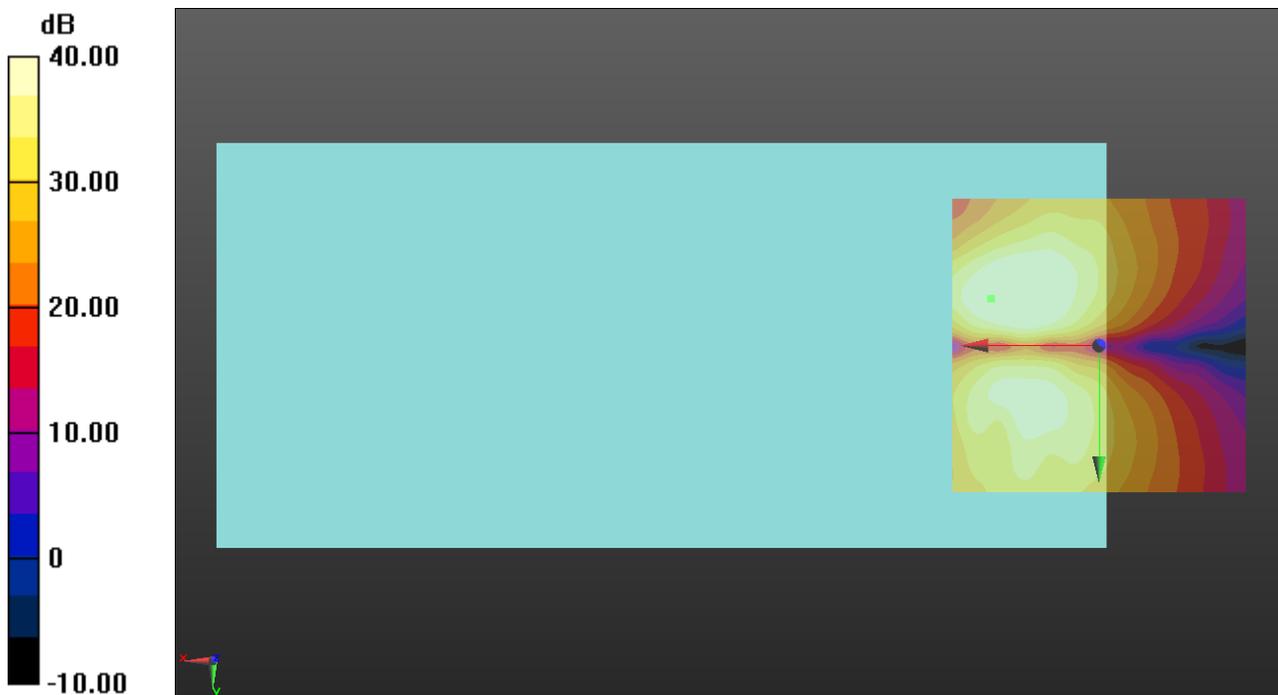
ABM1/ABM2 = 41.31 dB

ABM1 comp = -0.56 dBA/m

ABM2 = -41.87 dBA/m

BWC Factor = 0.16 dB

Location: 18.3, -7.9, 3.7 mm



0 dB = 1.000 = 0.00 dB

VoLTE FDD

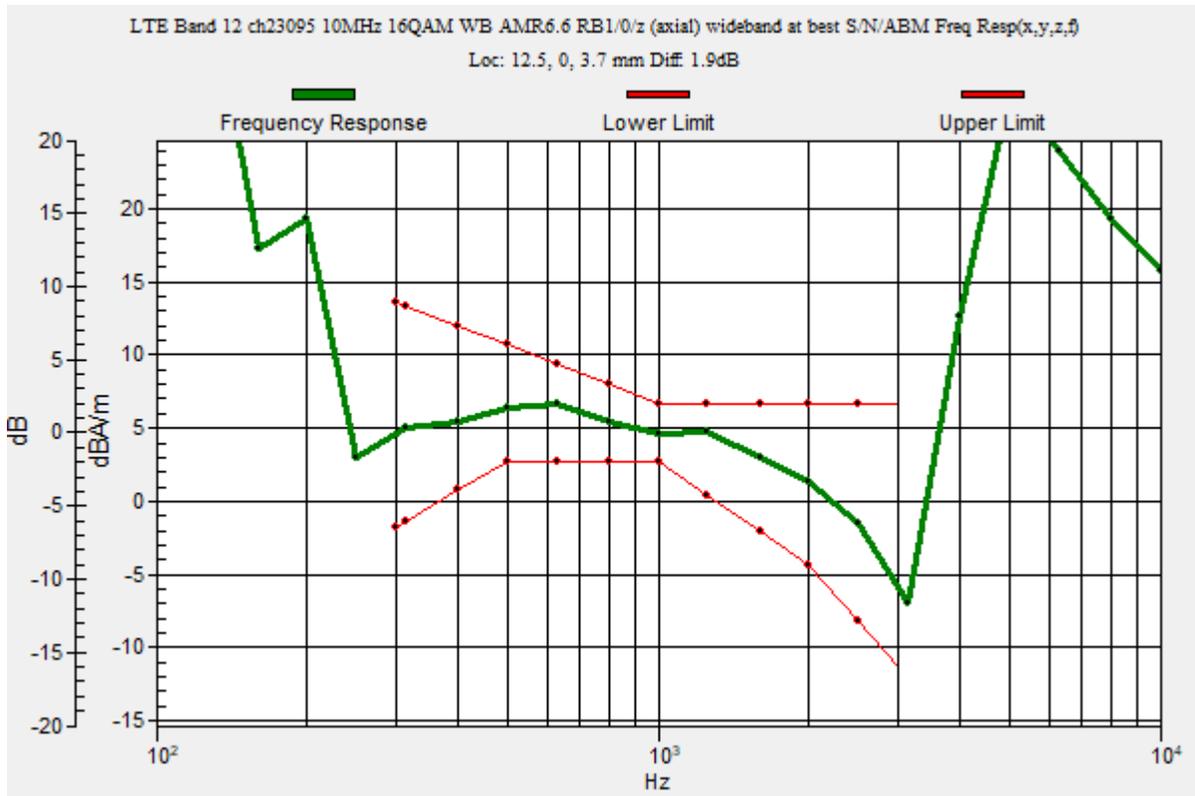
Communication System: UID 0, LTE (FDD) (0); Frequency: 1745 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 12 ch23095 10MHz 16QAM WB AMR6.6 RB1/0/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: 47.64
 Measure Window Start: 300ms
 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 = 1.90 dB
 BWC Factor = 10.80 dB
 Location: 12.5, 0, 3.7 mm



VoLTE FDD

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 12 ch23095 10MHz 16QAM WB AMR6.6 RB1/0/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: 24.29

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

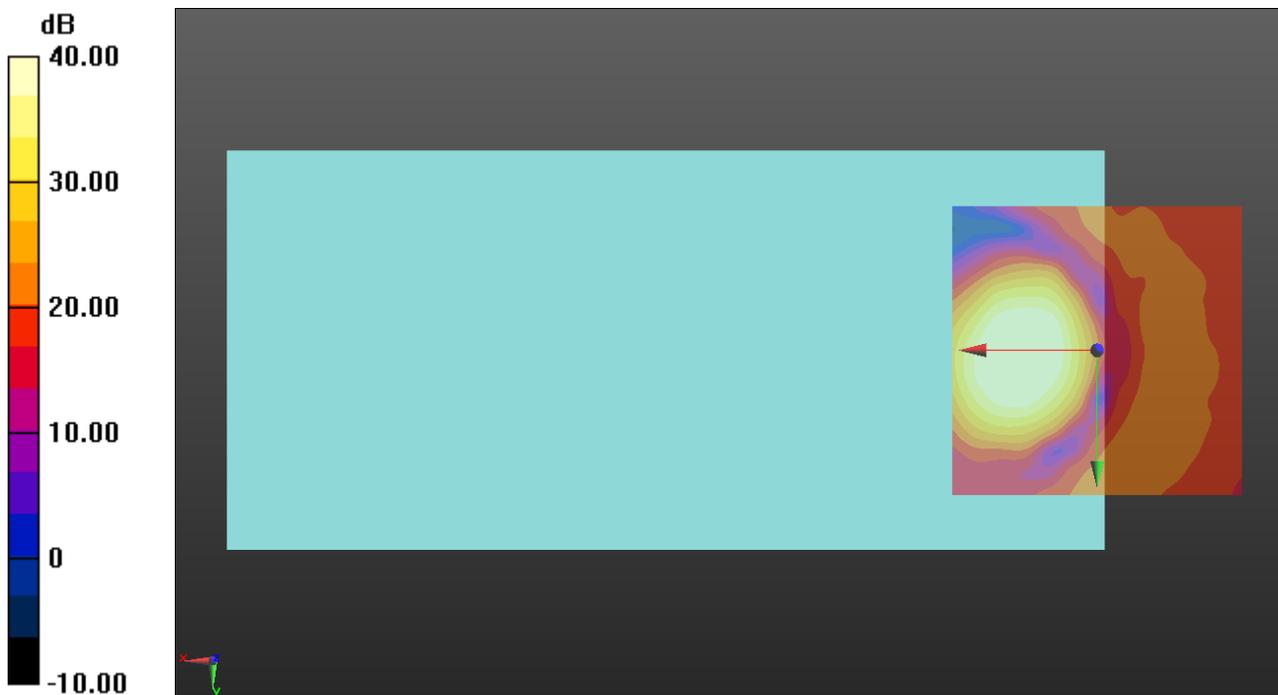
ABM1/ABM2 = 38.21 dB

ABM1 comp = 7.20 dBA/m

ABM2 = -31.01 dBA/m

BWC Factor = 0.16 dB

Location: 20, 0.4, 3.7 mm



0 dB = 1.000 = 0.00 dB

VoLTE FDD

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 12 ch23095 10MHz 16QAM WB AMR6.6 RB1/0/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: 24.29

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

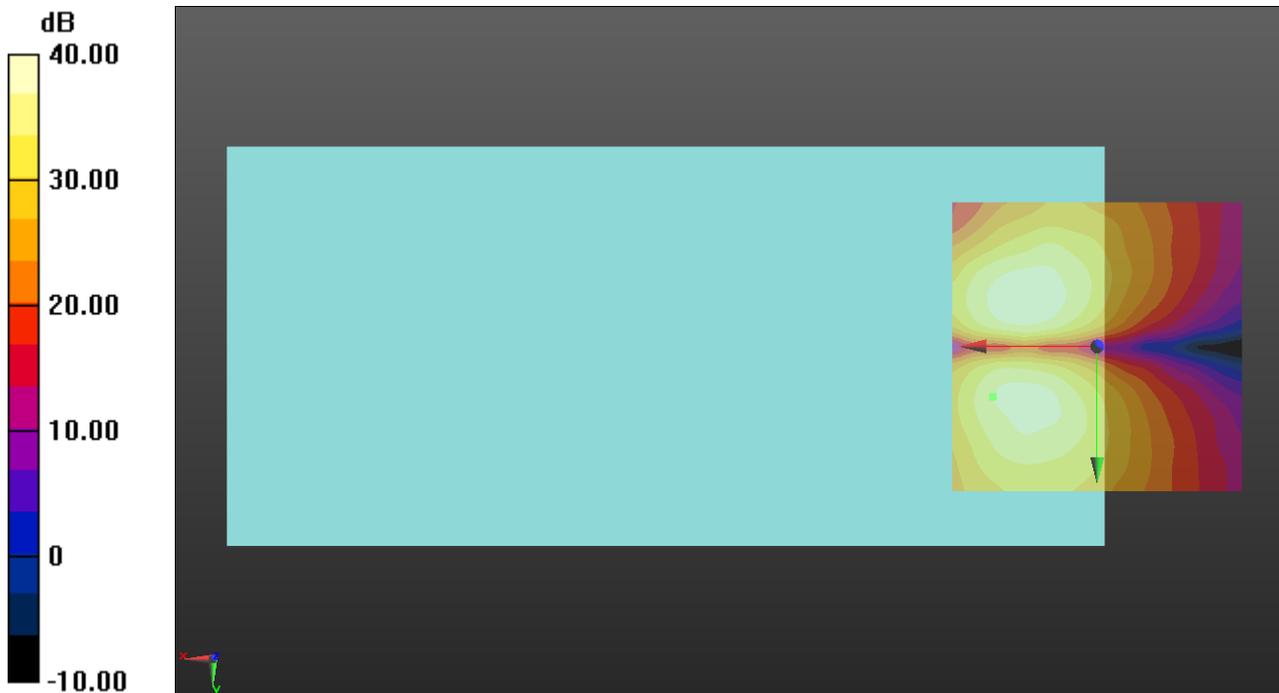
ABM1/ABM2 = 36.55 dB

ABM1 comp = -0.80 dBA/m

ABM2 = -37.35 dBA/m

BWC Factor = 0.16 dB

Location: 17.9, 8.7, 3.7 mm



0 dB = 1.000 = 0.00 dB

VoLTE FDD

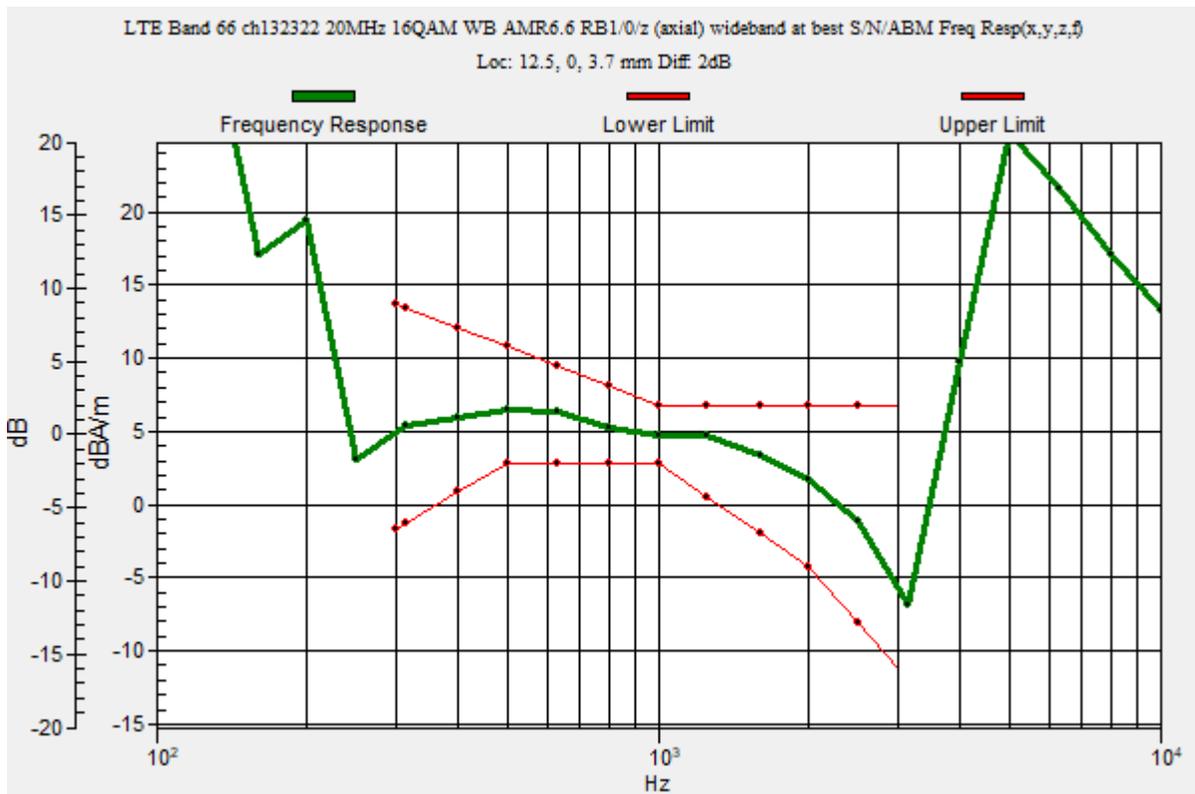
Communication System: UID 0, LTE (FDD) (0); Frequency: 1745 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 66 ch132322 20MHz 16QAM WB AMR6.6 RB1/0/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: 47.64
 Measure Window Start: 300ms
 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 = 2.00 dB
 BWC Factor = 10.80 dB
 Location: 12.5, 0, 3.7 mm



VoLTE FDD

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 66 ch132322 20MHz 16QAM WB AMR6.6 RB1/0/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: 24.29

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

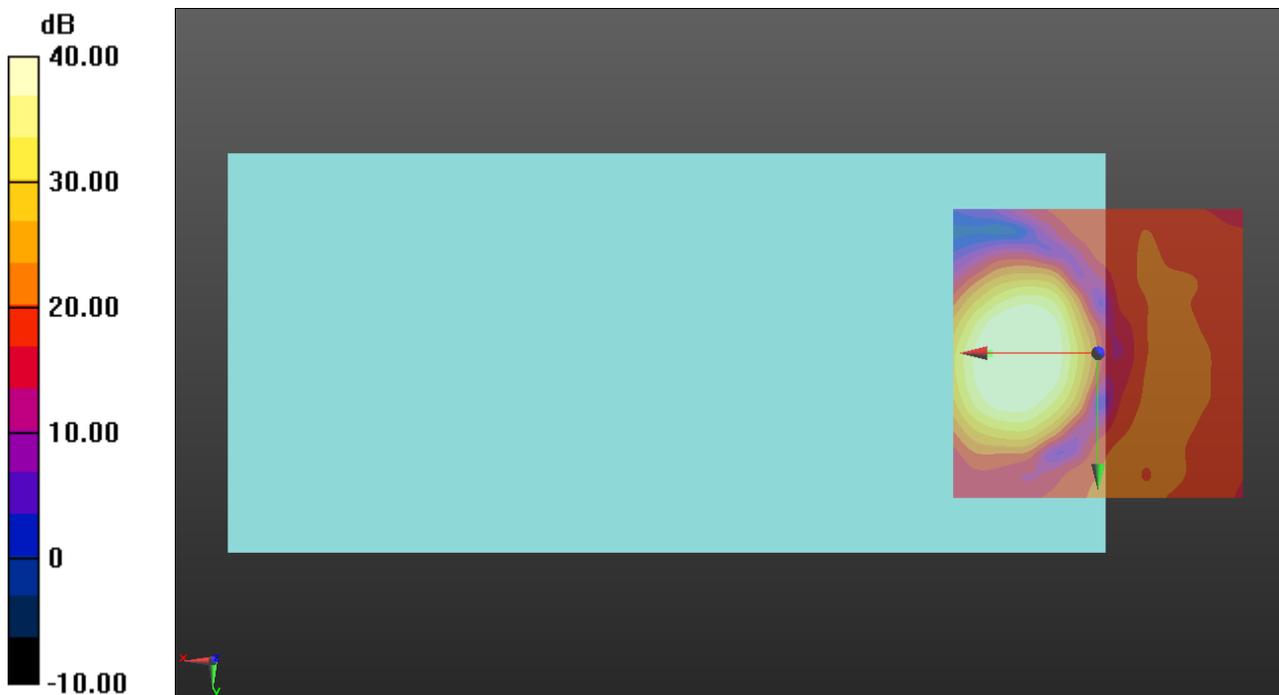
ABM1/ABM2 = 41.59 dB

ABM1 comp = 7.54 dBA/m

ABM2 = -34.05 dBA/m

BWC Factor = 0.16 dB

Location: 18.8, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

VoLTE FDD

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 66 ch132322 20MHz 16QAM WB AMR6.6 RB1/0/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: 24.29

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

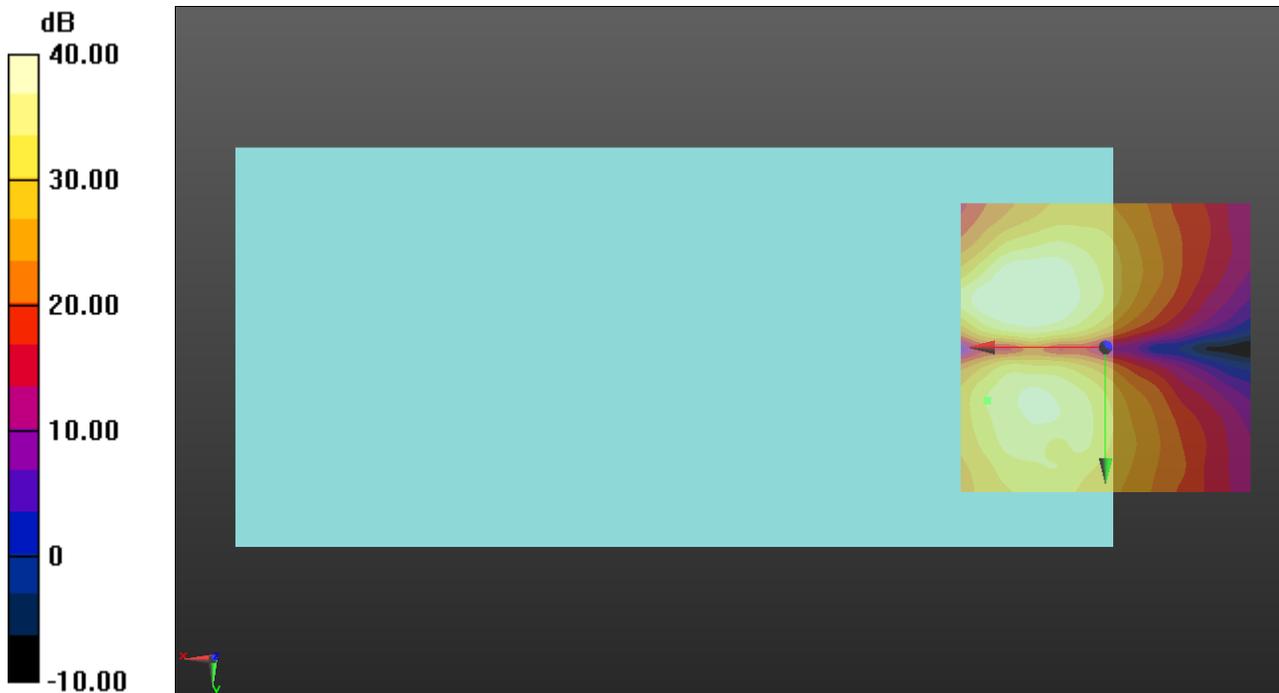
ABM1/ABM2 = 33.53 dB

ABM1 comp = -0.77 dBA/m

ABM2 = -34.30 dBA/m

BWC Factor = 0.16 dB

Location: 20.4, 9.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

VoLTE TDD

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

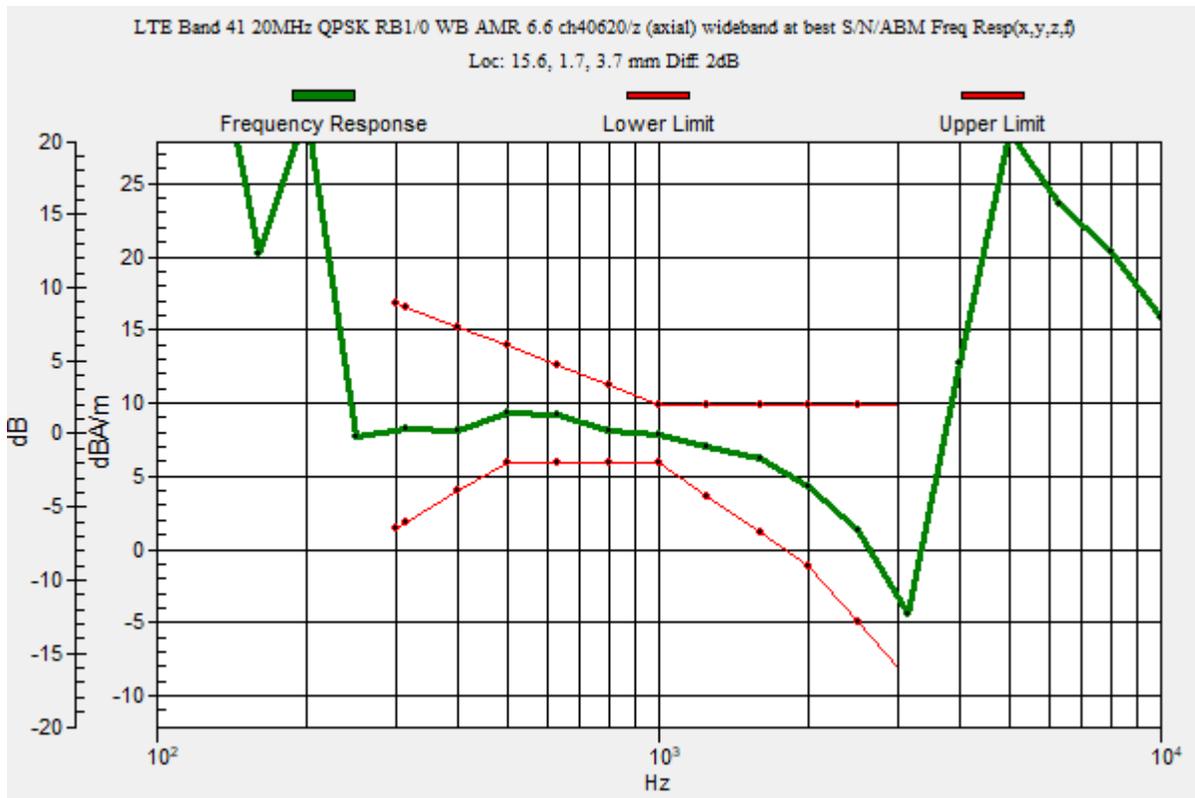
T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 41 20MHz QPSK RB1/0 WB AMR 6.6 ch40620/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1):

Measurement grid: dx=10mm, dy=10mm
 Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav
 Output Gain: 47.64
 Measure Window Start: 300ms
 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 = 2.00 dB
 BWC Factor = 10.80 dB
 Location: 15.6, 1.7, 3.7 mm



VoLTE TDD

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 41 20MHz QPSK RB1/0 WB AMR 6.6 ch40620/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: 24.29

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

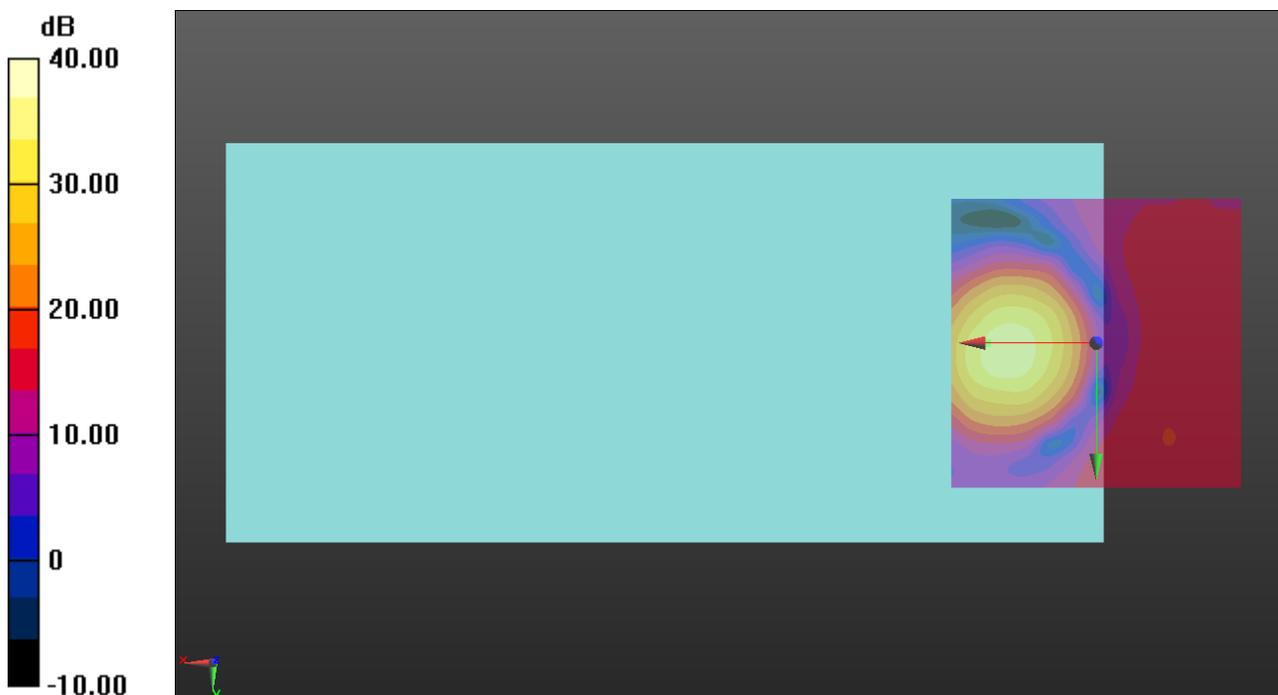
ABM1/ABM2 = 33.50 dB

ABM1 comp = 7.73 dBA/m

ABM2 = -25.77 dBA/m

BWC Factor = 0.16 dB

Location: 19.6, 0.4, 3.7 mm



0 dB = 1.000 = 0.00 dB

VoLTE TDD

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 41 20MHz QPSK RB1/0 WB AMR 6.6 ch40620/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: 24.29

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

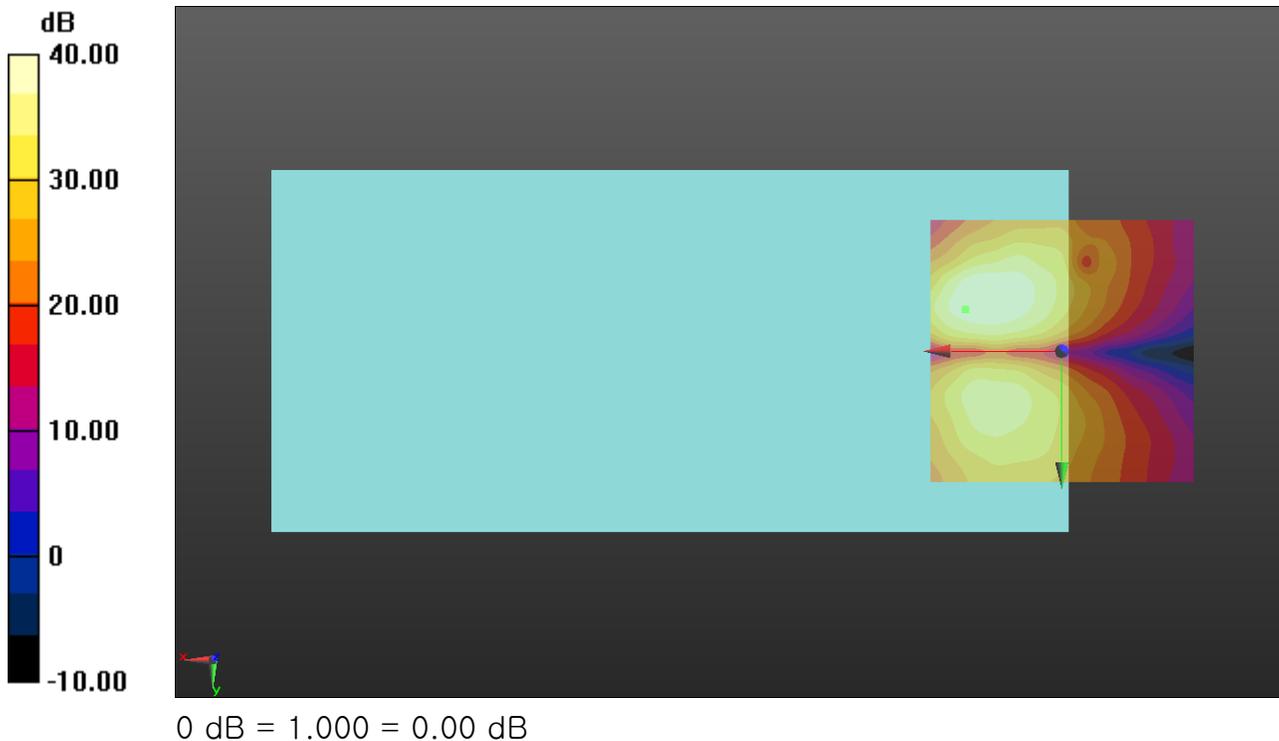
ABM1/ABM2 = 38.64 dB

ABM1 comp = -0.76 dBA/m

ABM2 = -39.40 dBA/m

BWC Factor = 0.16 dB

Location: 18.3, -7.9, 3.7 mm



VoWiFi

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)/VoWiFi Ant 1_802.11b 1Mbps ch6 WB AMR 6.6/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: 30.06

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

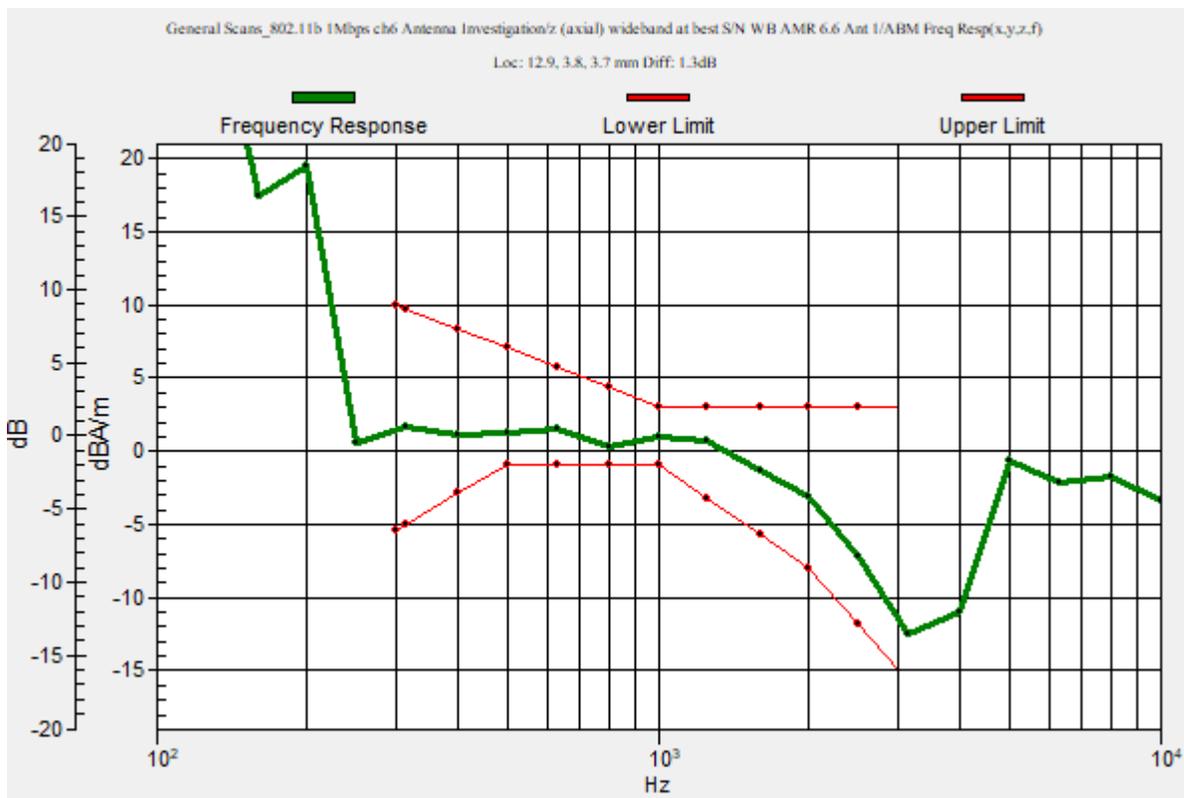
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.30 dB

BWC Factor = 10.80 dB

Location: 12.9, 3.8, 3.7 mm



VoWiFi

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 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/VoWiFi Ant 1 802.11b 1Mbps ch6 WB AMR 6.6/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: 15.33

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

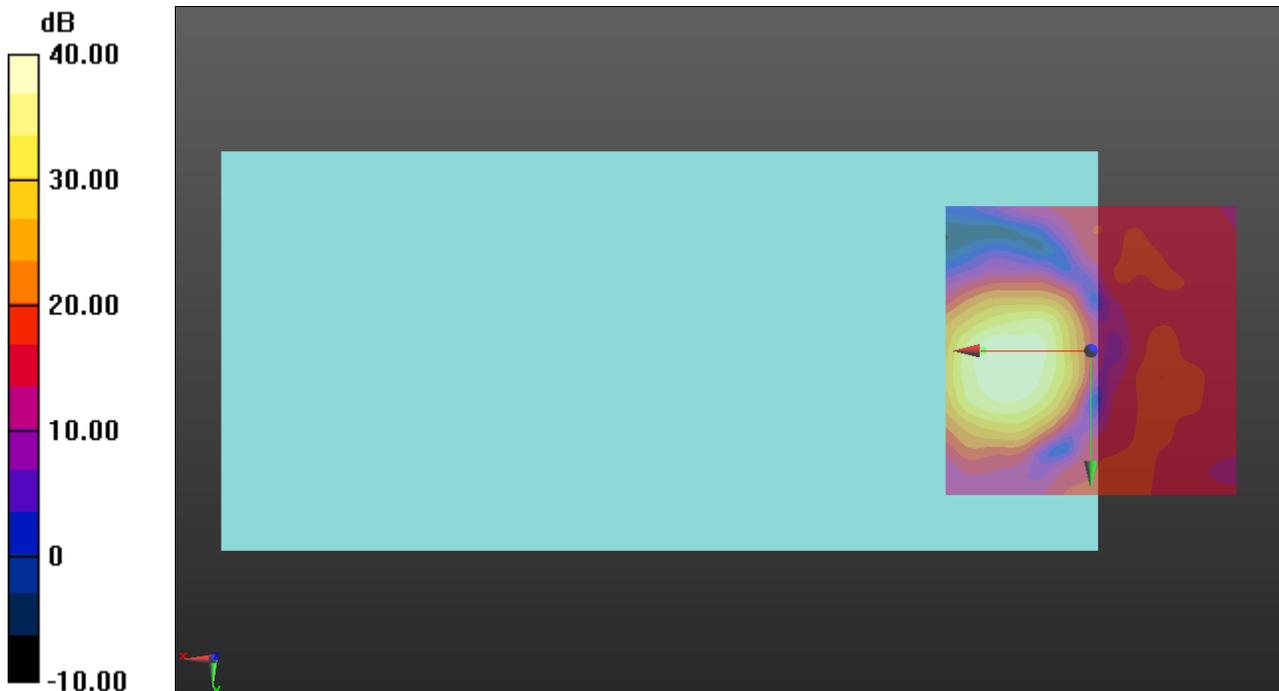
ABM1/ABM2 = 38.65 dB

ABM1 comp = 4.81 dBA/m

ABM2 = -33.84 dBA/m

BWC Factor = 0.16 dB

Location: 18.8, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

VoWiFi

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 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/VoWiFi Ant1 802.11b 1Mbps ch6 WB AMR 6.6/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: 15.33

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

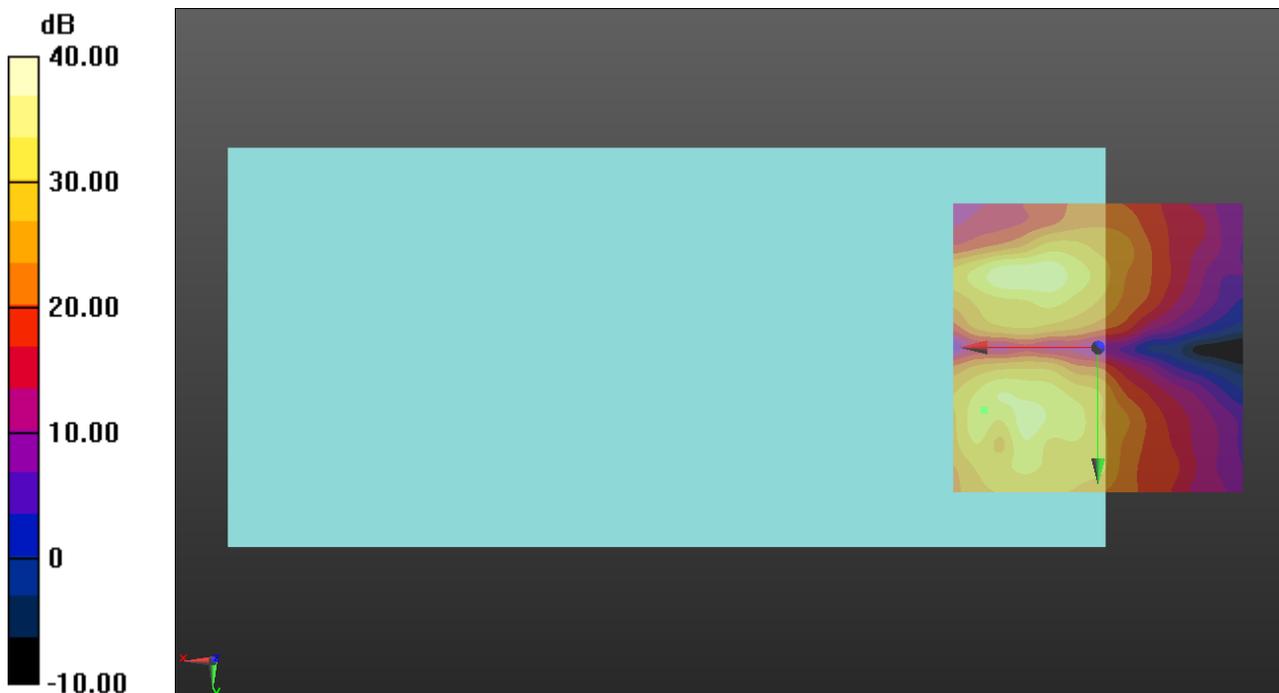
ABM1/ABM2 = 31.96 dB

ABM1 comp = -4.55 dBA/m

ABM2 = -36.51 dBA/m

BWC Factor = 0.16 dB

Location: 19.6, 10.8, 3.7 mm



0 dB = 1.000 = 0.00 dB

VoWiFi

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

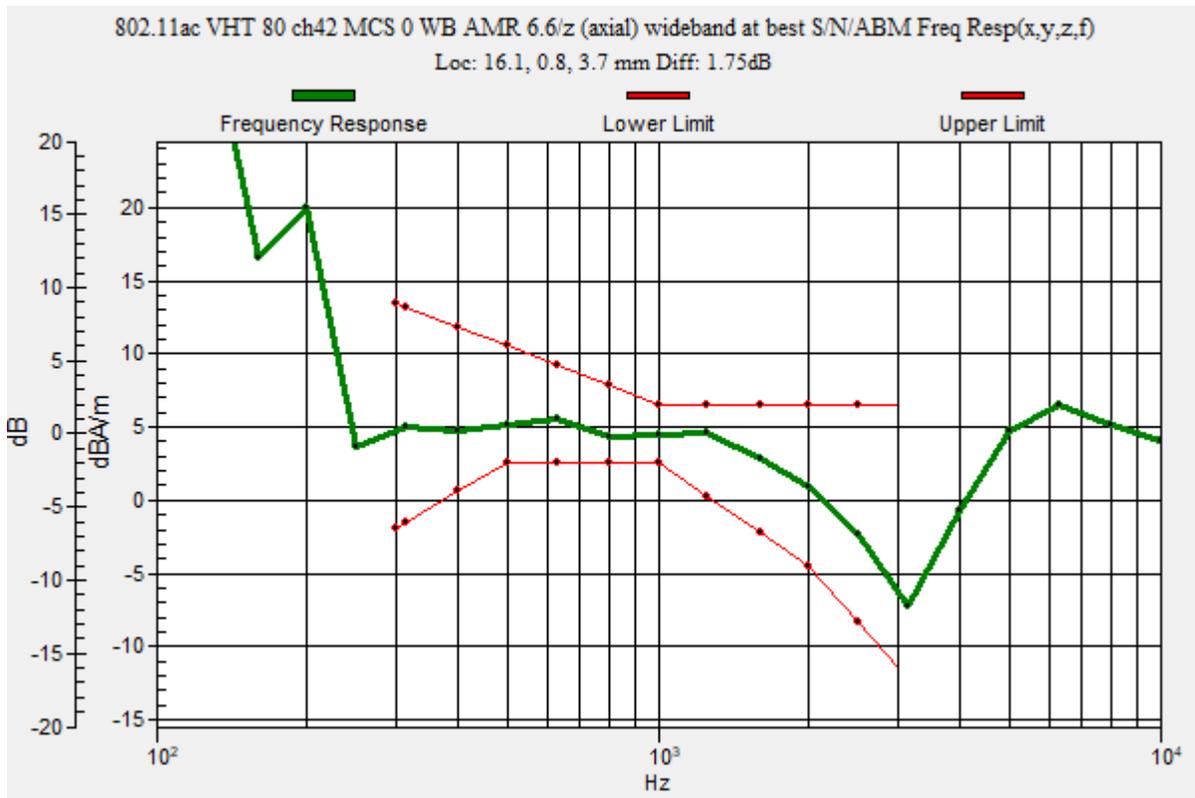
T-Coil scan (scan for ANSI C63.19 2011 compliance)/VoWiFi Ant 1 802.11ac VHT 80 ch42 MCS 0 WB AMR 6.6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1):

Measurement grid: dx=10mm, dy=10mm
 Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav
 Output Gain: 30.06
 Measure Window Start: 300ms
 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 = 1.75 dB
 BWC Factor = 10.80 dB
 Location: 16.1, 0.8, 3.7 mm



VoWiFi

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 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/VoWiFi Ant1 802.11ac VHT 80 ch42 MCS 0 WB AMR 6.6/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: 15.33

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

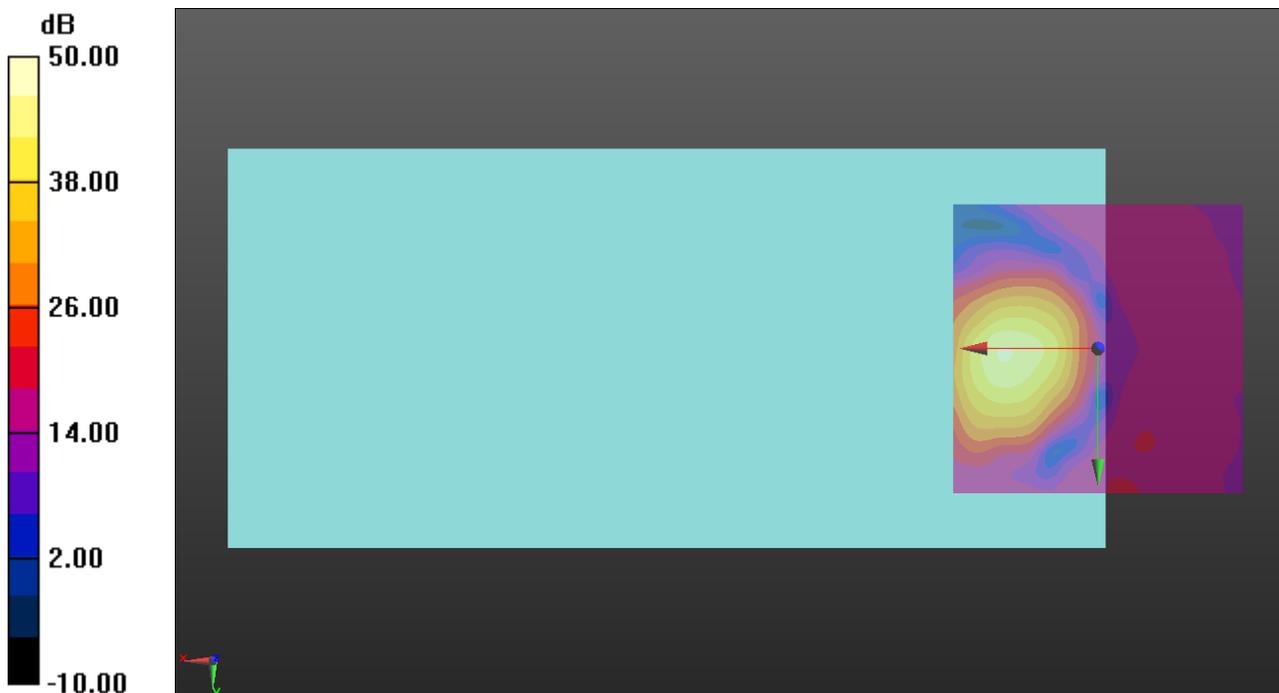
ABM1/ABM2 = 41.68 dB

ABM1 comp = 4.40 dBA/m

ABM2 = -37.28 dBA/m

BWC Factor = 0.16 dB

Location: 20, -0.4, 3.7 mm



0 dB = 1.000 = 0.00 dB

VoWiFi

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 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/VoWiFi Ant 1 802.11ac VHT 80 ch42 MCS 0 WB AMR 6.6/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: 15.33

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

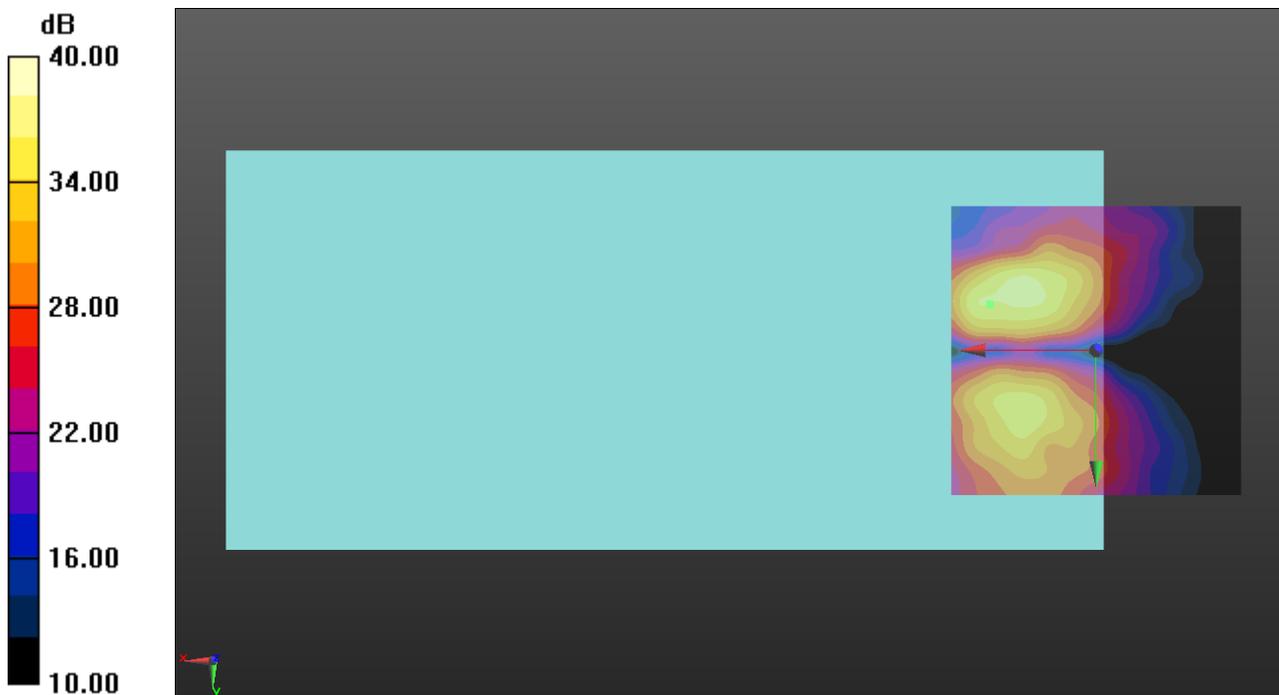
ABM1/ABM2 = 35.99 dB

ABM1 comp = -5.60 dBA/m

ABM2 = -41.59 dBA/m

BWC Factor = 0.16 dB

Location: 18.3, -7.9, 3.7 mm



0 dB = 1.000 = 0.00 dB

VoWiFi

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

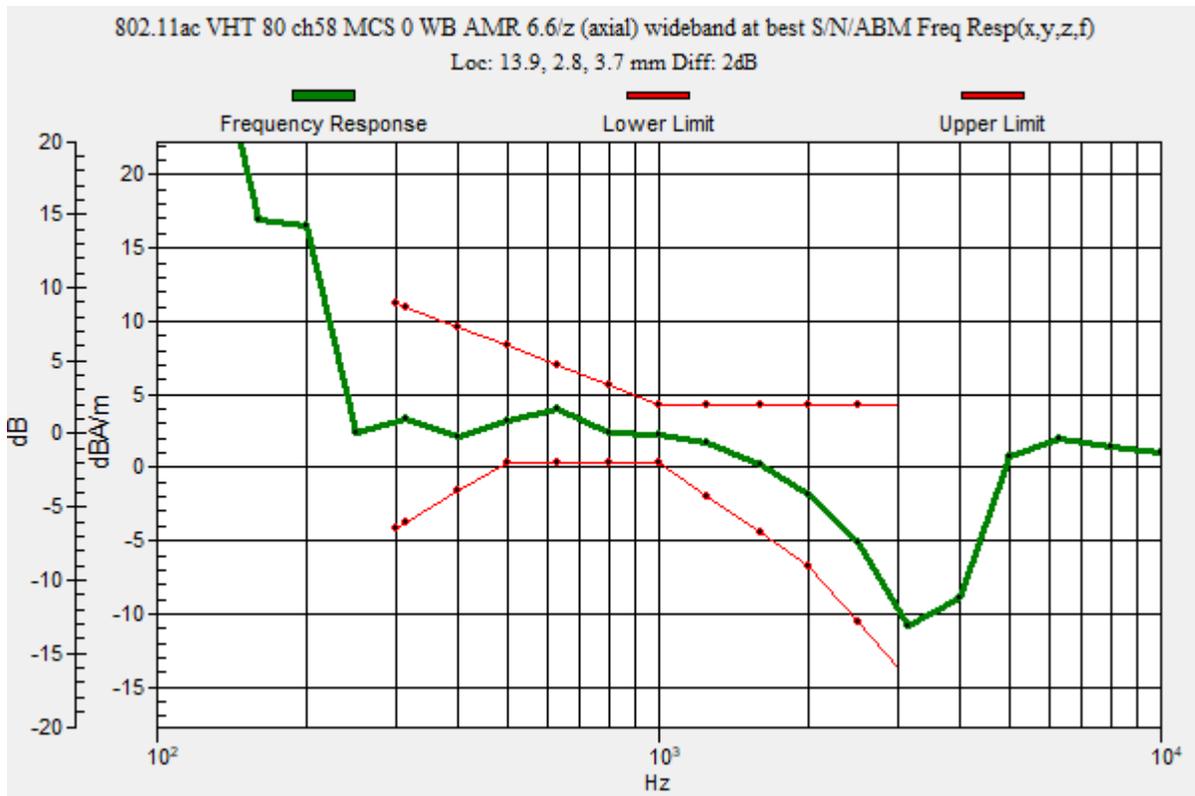
T-Coil scan (scan for ANSI C63.19 2011 compliance)/VoWiFi Ant 1 802.11ac VHT 80 ch58 MCS 0 WB AMR 6.6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1):

Measurement grid: dx=10mm, dy=10mm
 Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav
 Output Gain: 30.06
 Measure Window Start: 300ms
 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 = 2.00 dB
 BWC Factor = 10.80 dB
 Location: 13.9, 2.8, 3.7 mm



VoWiFi

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 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/VoWiFi Ant 1 802.11ac VHT 80 ch58 MCS 0 WB AMR 6.6/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: 15.33

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

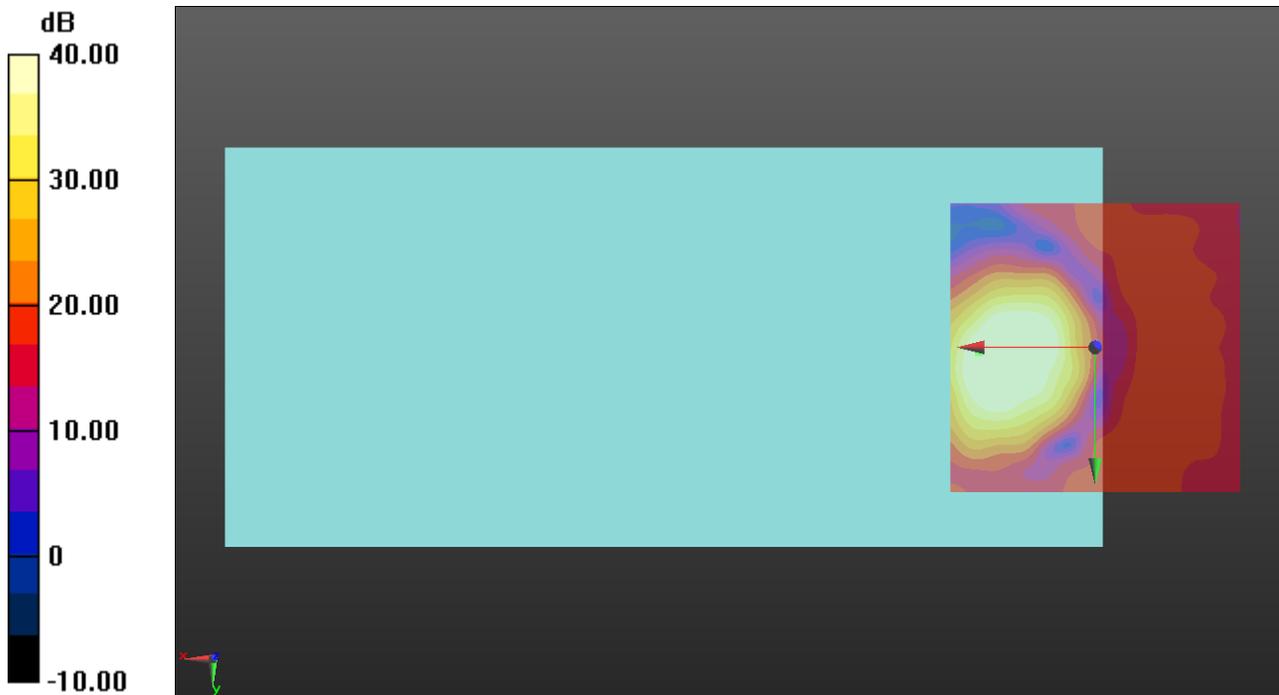
ABM1/ABM2 = 41.45 dB

ABM1 comp = 4.28 dBA/m

ABM2 = -37.17 dBA/m

BWC Factor = 0.16 dB

Location: 20, 0.8, 3.7 mm



0 dB = 1.000 = 0.00 dB

VoWiFi

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 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/VoWiFi Ant 1 802.11ac VHT 80 ch58 MCS 0 WB AMR 6.6/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: 15.33

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

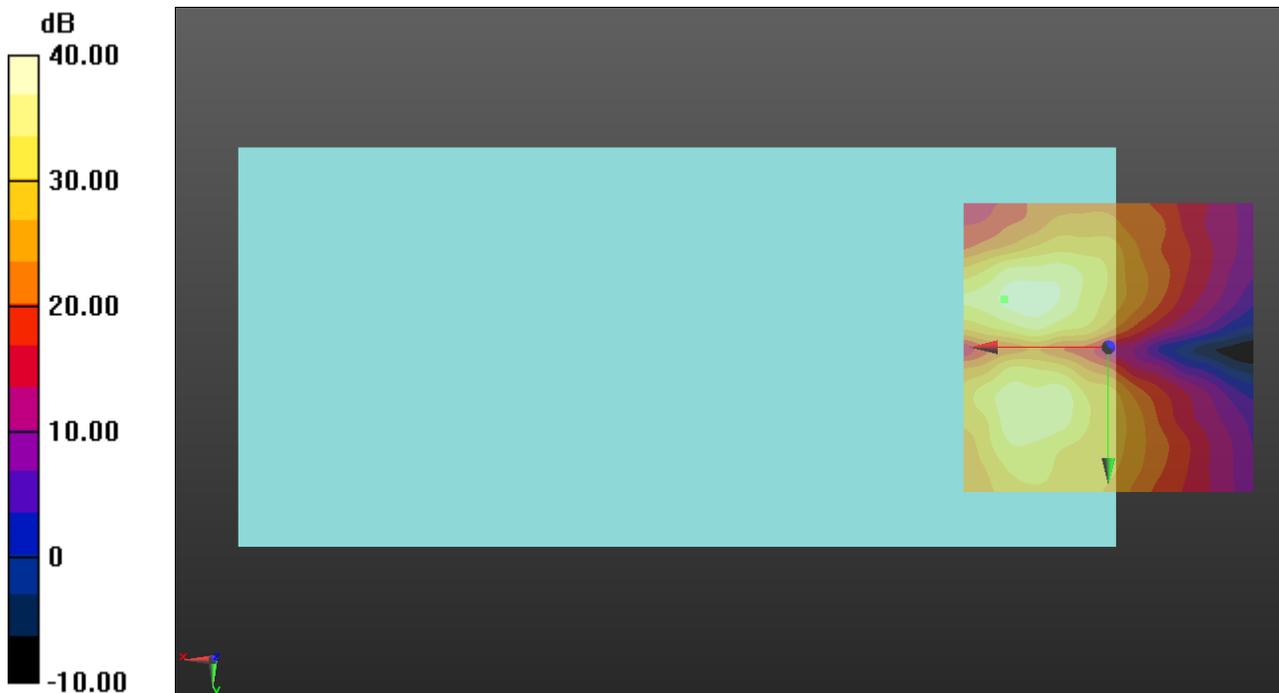
ABM1/ABM2 = 37.52 dB

ABM1 comp = -4.07 dBA/m

ABM2 = -41.59 dBA/m

BWC Factor = 0.16 dB

Location: 17.9, -8.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

VoWiFi

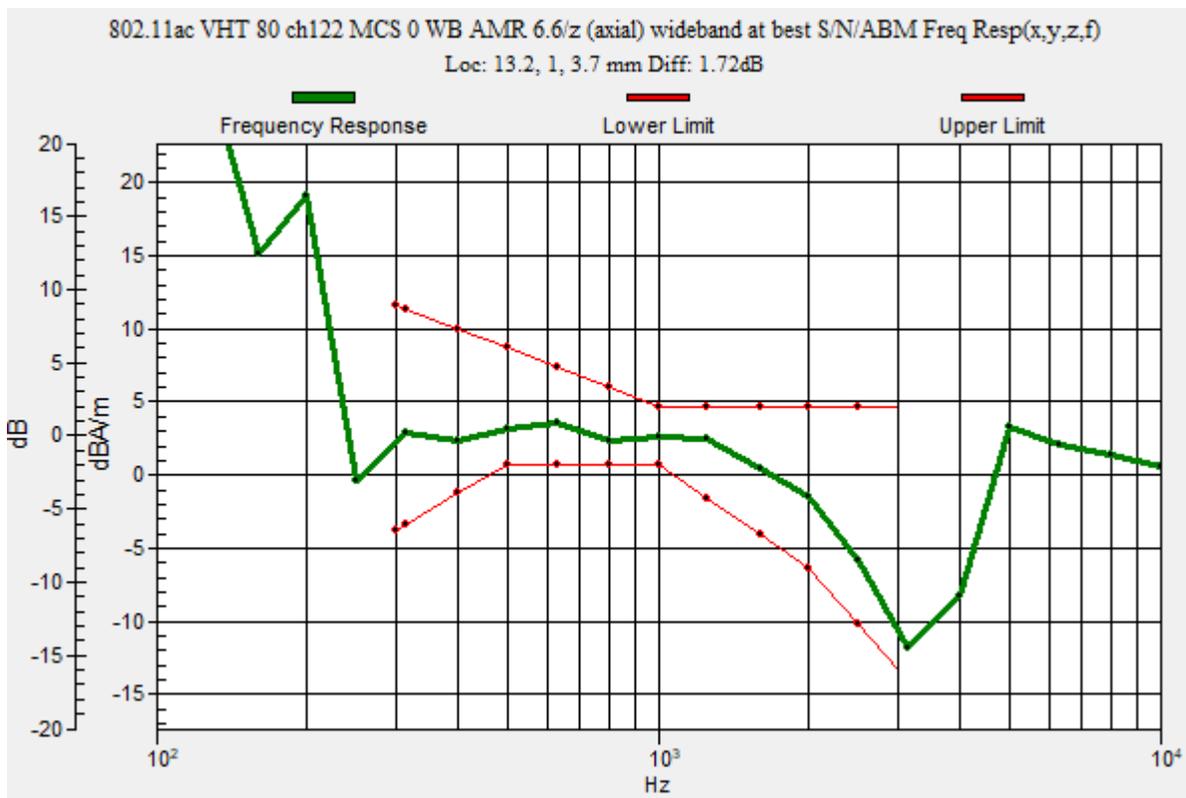
Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5610 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/VoWiFi Ant1 802.11ac VHT 80 ch122 MCS 0 WB AMR 6.6/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: 30.06
 Measure Window Start: 300ms
 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 = 1.72 dB
 BWC Factor = 10.80 dB
 Location: 13.2, 1, 3.7 mm



VoWiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5610 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/VoWiFi Ant 1 802.11ac VHT 80 ch122 MCS 0 WB AMR 6.6/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: 15.33

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

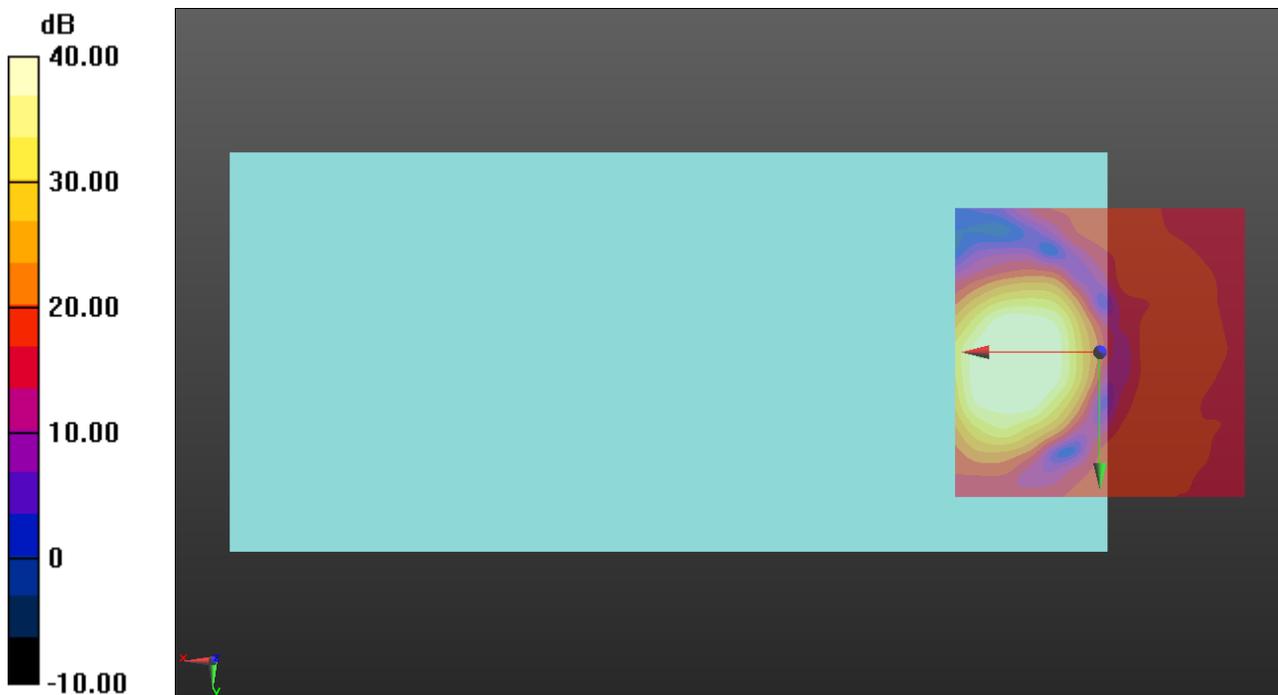
ABM1/ABM2 = 39.90 dB

ABM1 comp = 3.53 dBA/m

ABM2 = -36.37 dBA/m

BWC Factor = 0.16 dB

Location: 20.4, 0.4, 3.7 mm



0 dB = 1.000 = 0.00 dB

VoWiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5610 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/VoWiFi Ant 1 802.11ac VHT 80 ch122 MCS 0 WB AMR 6.6/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: 15.33

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

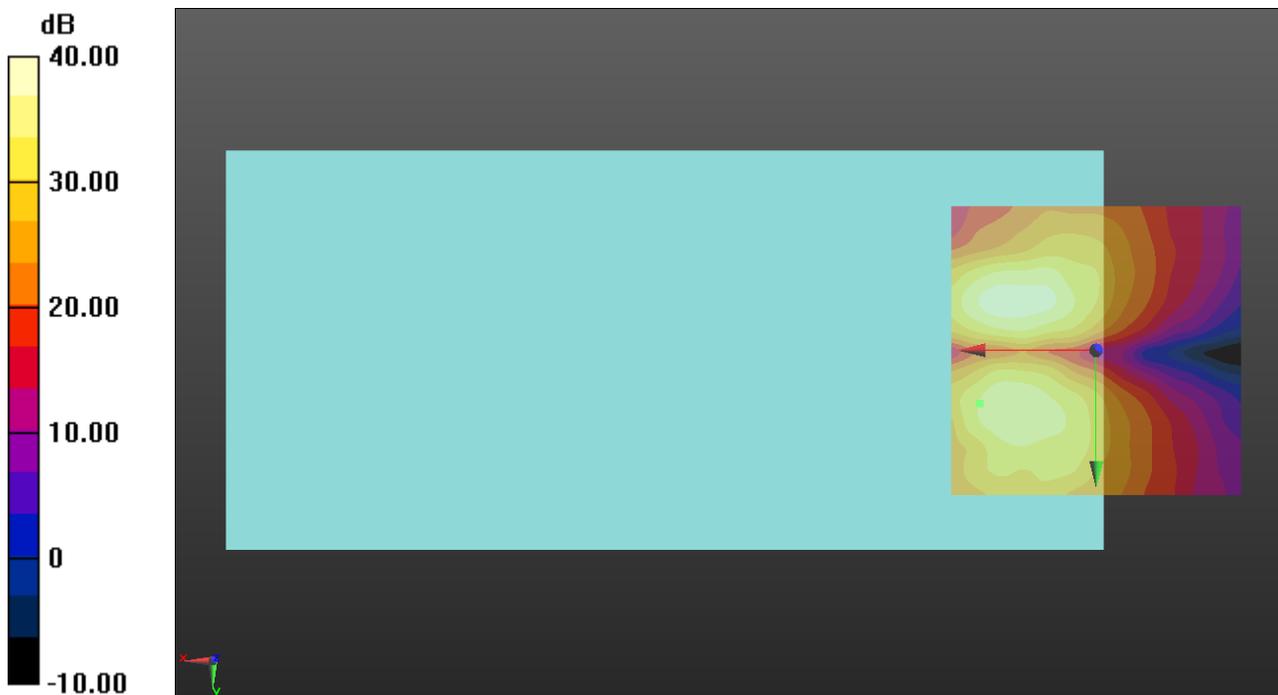
ABM1/ABM2 = 33.61 dB

ABM1 comp = -3.49 dBA/m

ABM2 = -37.10 dBA/m

BWC Factor = 0.16 dB

Location: 20, 9.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

VoWiFi

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

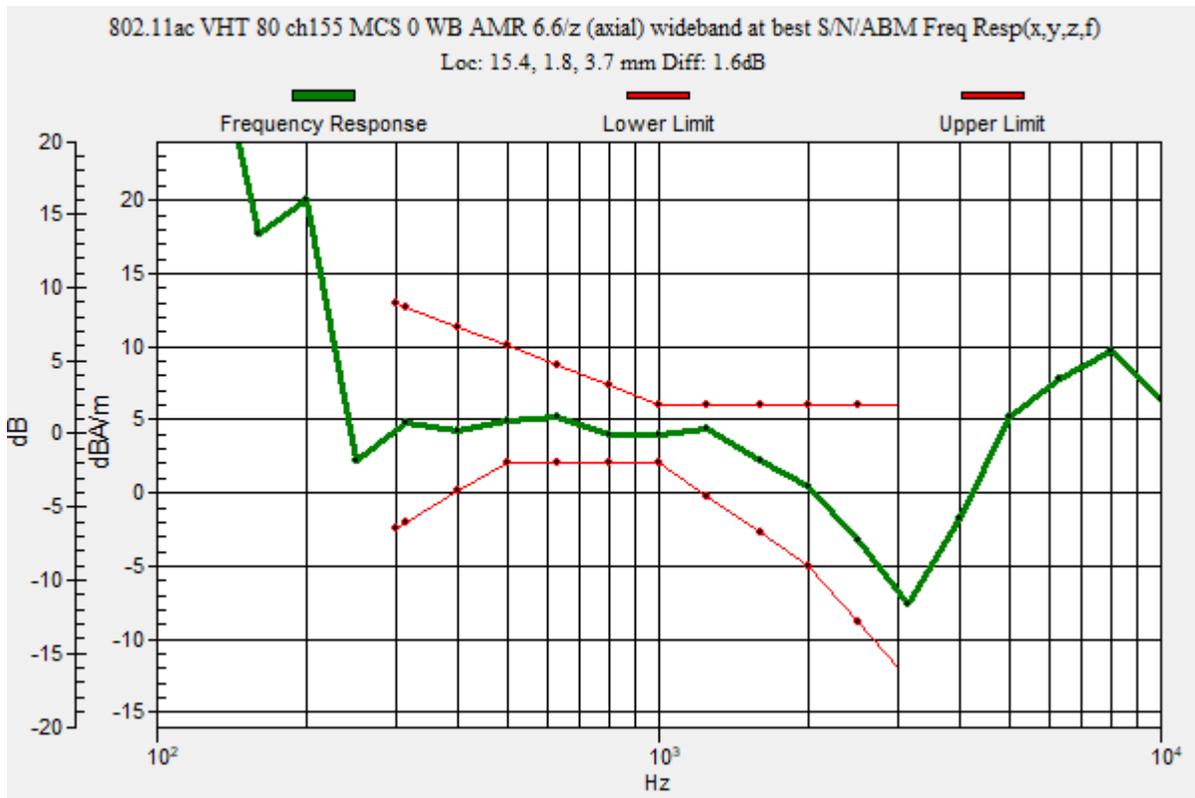
T-Coil scan (scan for ANSI C63.19 2011 compliance)/VoWiFi Ant1 802.11ac VHT 80 ch155 MCS 0 WB AMR 6.6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1):

Measurement grid: dx=10mm, dy=10mm
 Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav
 Output Gain: 30.06
 Measure Window Start: 300ms
 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 = 1.60 dB
 BWC Factor = 10.80 dB
 Location: 15.4, 1.8, 3.7 mm



VoWiFi

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 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/VoWiFi Ant 1 802.11ac VHT 80 ch155 MCS 0 WB AMR 6.6/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: 15.33

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

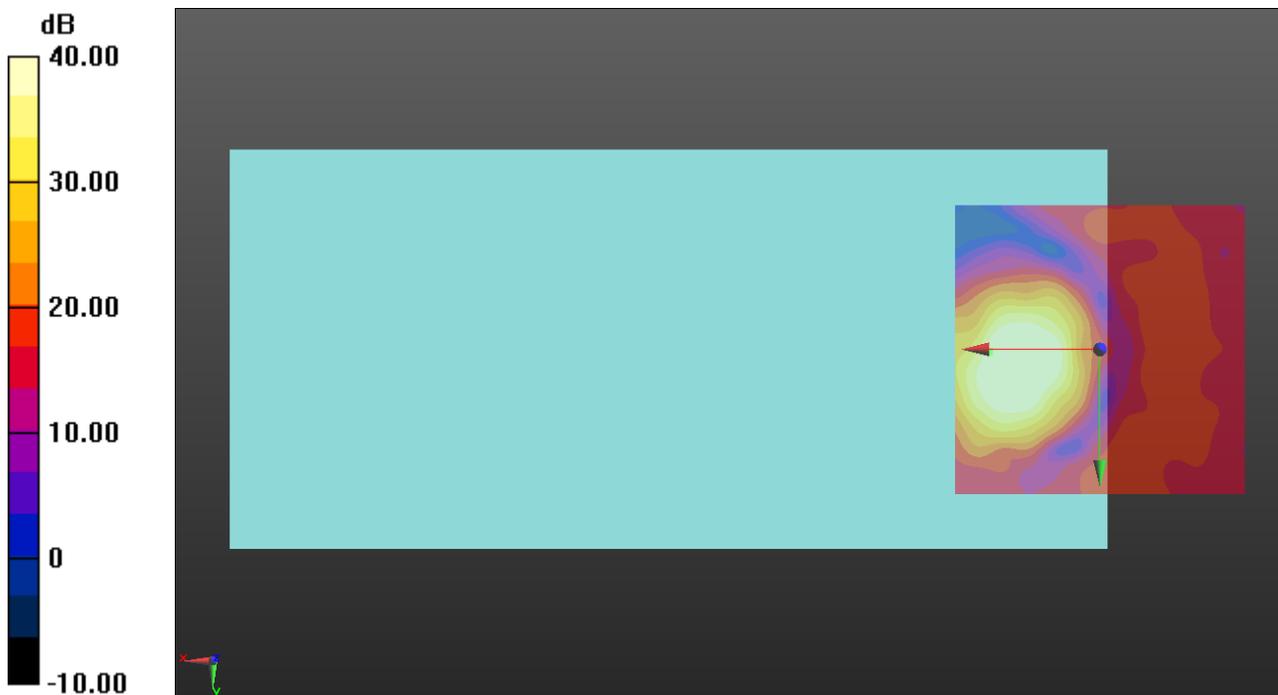
ABM1/ABM2 = 38.48 dB

ABM1 comp = 4.43 dBA/m

ABM2 = -34.05 dBA/m

BWC Factor = 0.16 dB

Location: 19.2, 0.4, 3.7 mm



0 dB = 1.000 = 0.00 dB

VoWiFi

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 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/VoWiFi Ant 1 802.11ac VHT 80 ch155 MCS 0 WB AMR 6.6/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: 15.33

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

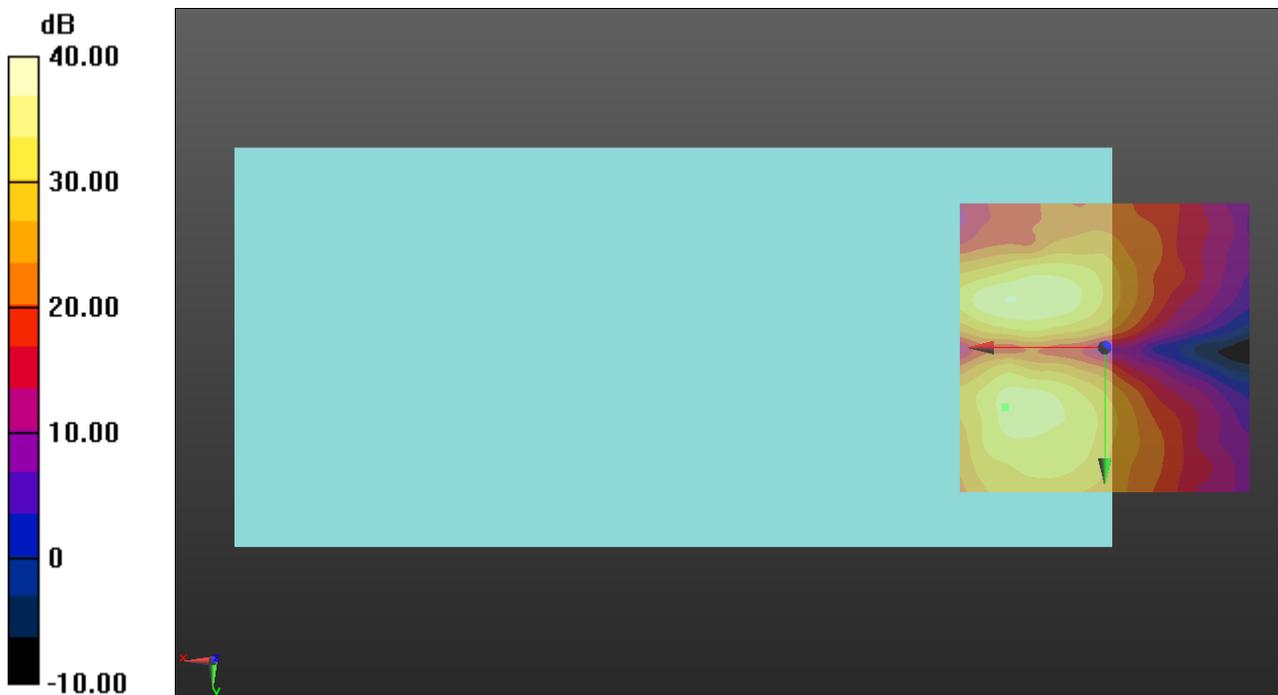
ABM1/ABM2 = 34.70 dB

ABM1 comp = -3.88 dBA/m

ABM2 = -38.58 dBA/m

BWC Factor = 0.16 dB

Location: 17.1, 10.4, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT EDGE

Communication System: UID 0, GPRS-FDD (TDMA, GMSK, 2 slot) (0); Frequency: 836.6 MHz; Duty Cycle: 1:4.00037

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT GSM850 EGPRS 2slots ch190 codec75/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: 39.17

Measure Window Start: 10000ms

Measure Window Length: 6000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

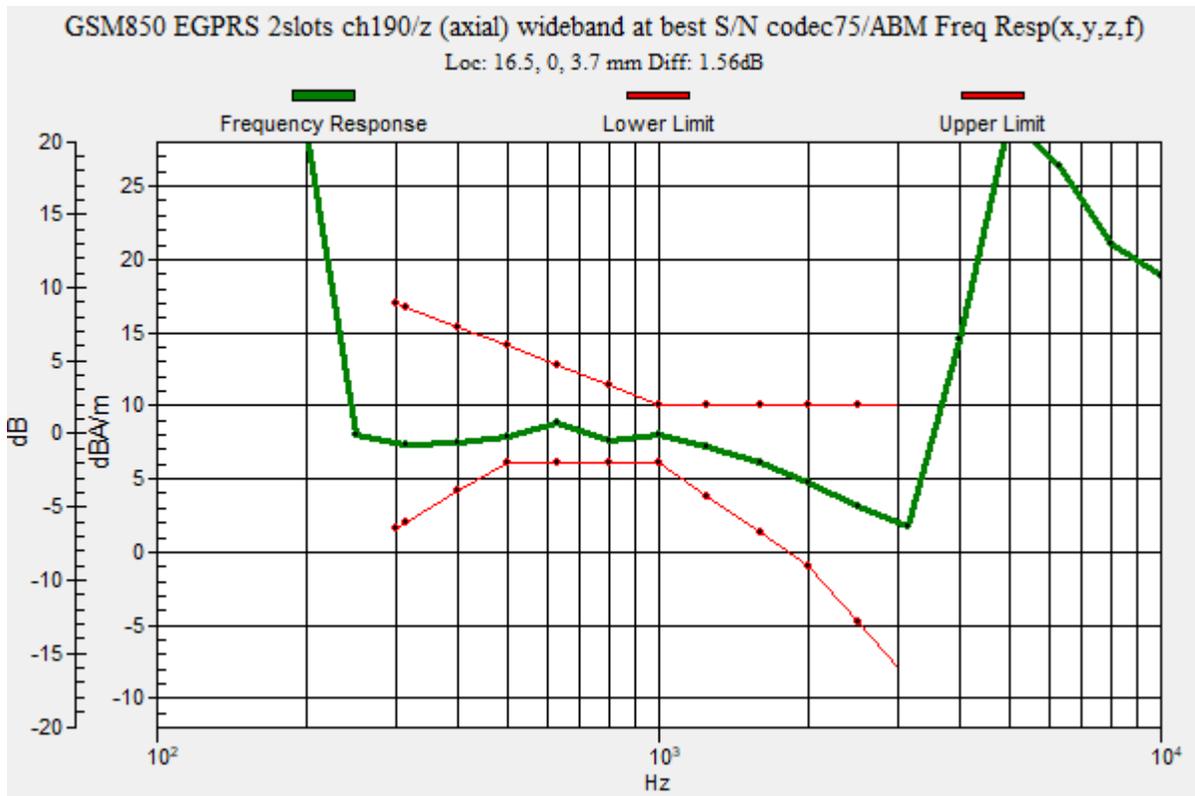
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.56 dB

BWC Factor = 10.80 dB

Location: 16.5, 0, 3.7 mm



OTT EDGE

Communication System: UID 0, GPRS-FDD (TDMA, GMSK, 2 slot) (0); Frequency: 836.6 MHz; Duty Cycle: 1:4.00037

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT GSM850 EGPRS 2slots ch190 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 3000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

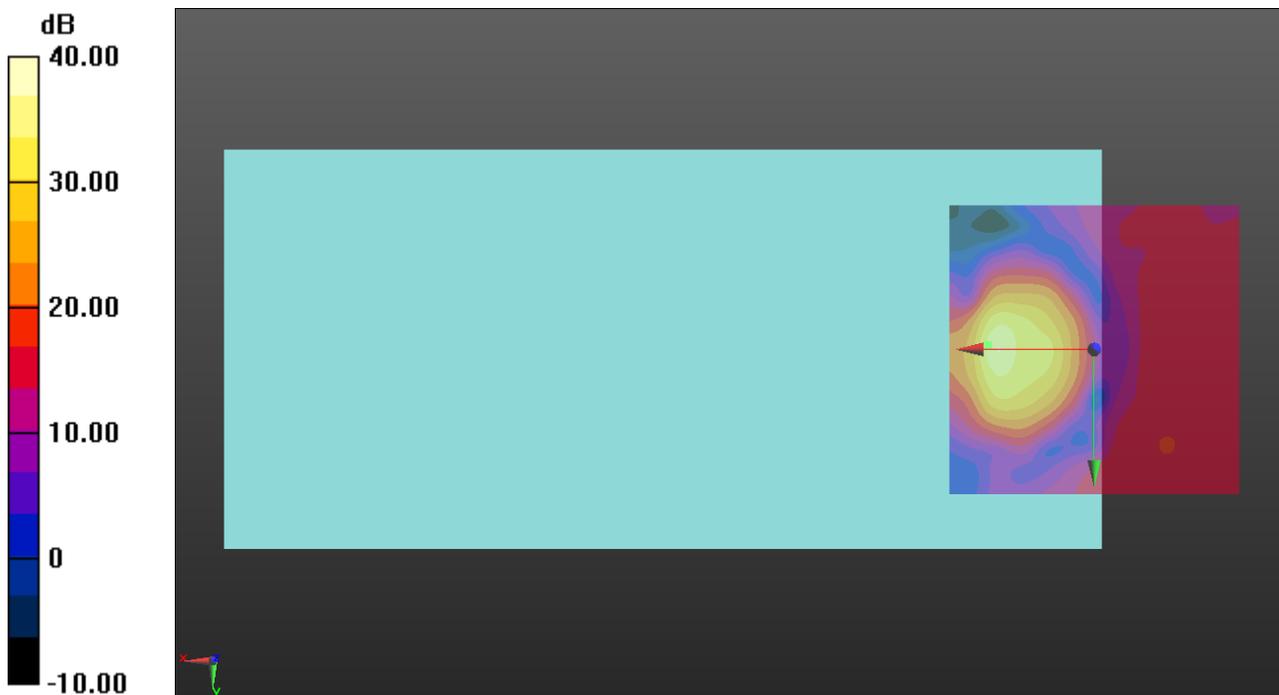
ABM1/ABM2 = 34.27 dB

ABM1 comp = 8.55 dBA/m

ABM2 = -25.72 dBA/m

BWC Factor = 0.16 dB

Location: 18.3, -0.8, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT EDGE

Communication System: UID 0, GPRS-FDD (TDMA, GMSK, 2 slot) (0); Frequency: 836.6 MHz; Duty Cycle: 1:4.00037

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT GSM850 EGPRS 2slots ch190 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 3000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

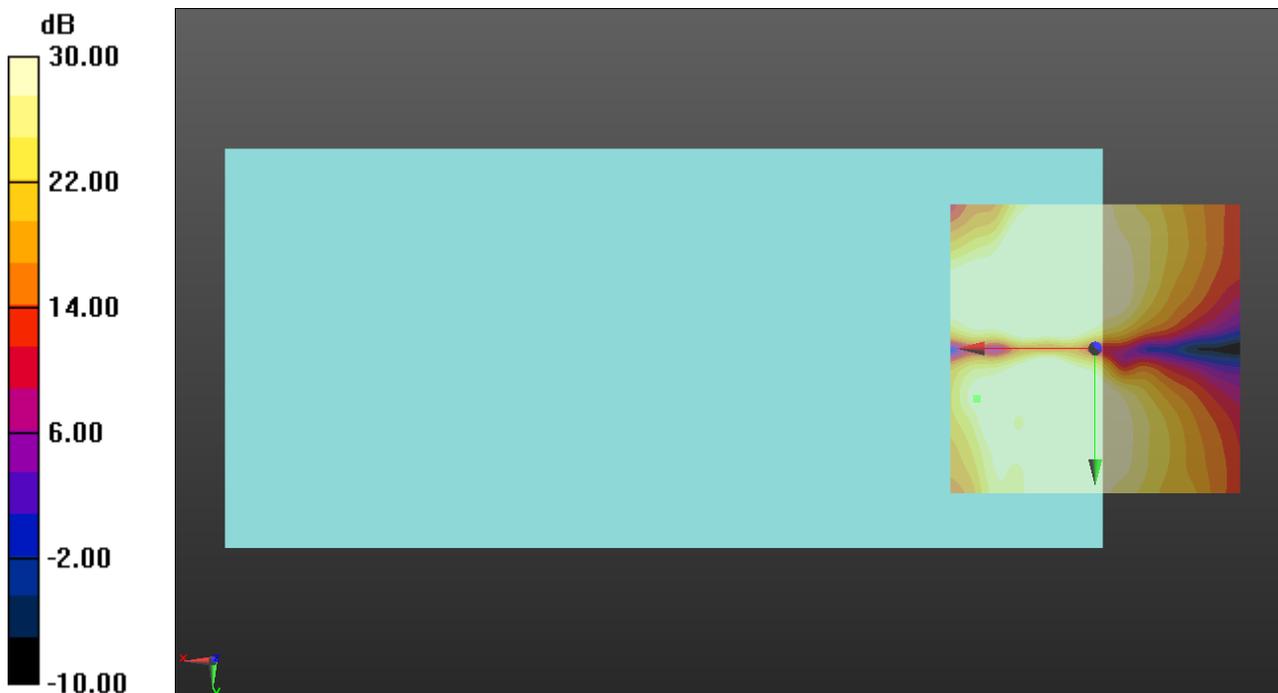
ABM1/ABM2 = 29.24 dB

ABM1 comp = 0.79 dBA/m

ABM2 = -28.45 dBA/m

BWC Factor = 0.16 dB

Location: 20.4, 8.7, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT EDGE

Communication System: UID 0, GPRS-FDD (TDMA, GMSK, 2 slot) (0); Frequency: 1880 MHz;Duty Cycle: 1:4.00037

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT GSM1900 EGPRS 2slots ch661 codec75/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: 39.17

Measure Window Start: 10000ms

Measure Window Length: 6000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

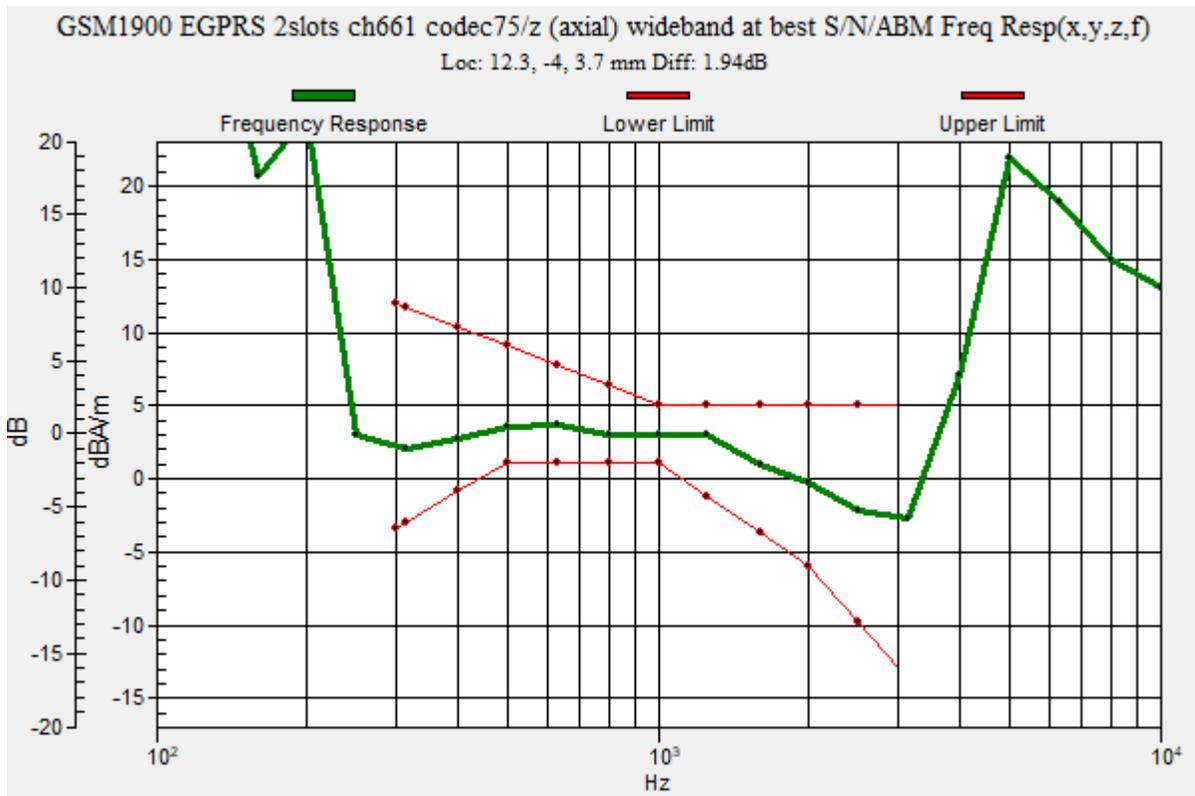
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.94 dB

BWC Factor = 10.80 dB

Location: 12.3, -4, 3.7 mm



OTT EDGE

Communication System: UID 0, GPRS-FDD (TDMA, GMSK, 2 slot) (0); Frequency: 1880 MHz; Duty Cycle: 1:4.00037

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT GSM1900 EGPRS 2slots ch661 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 3000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

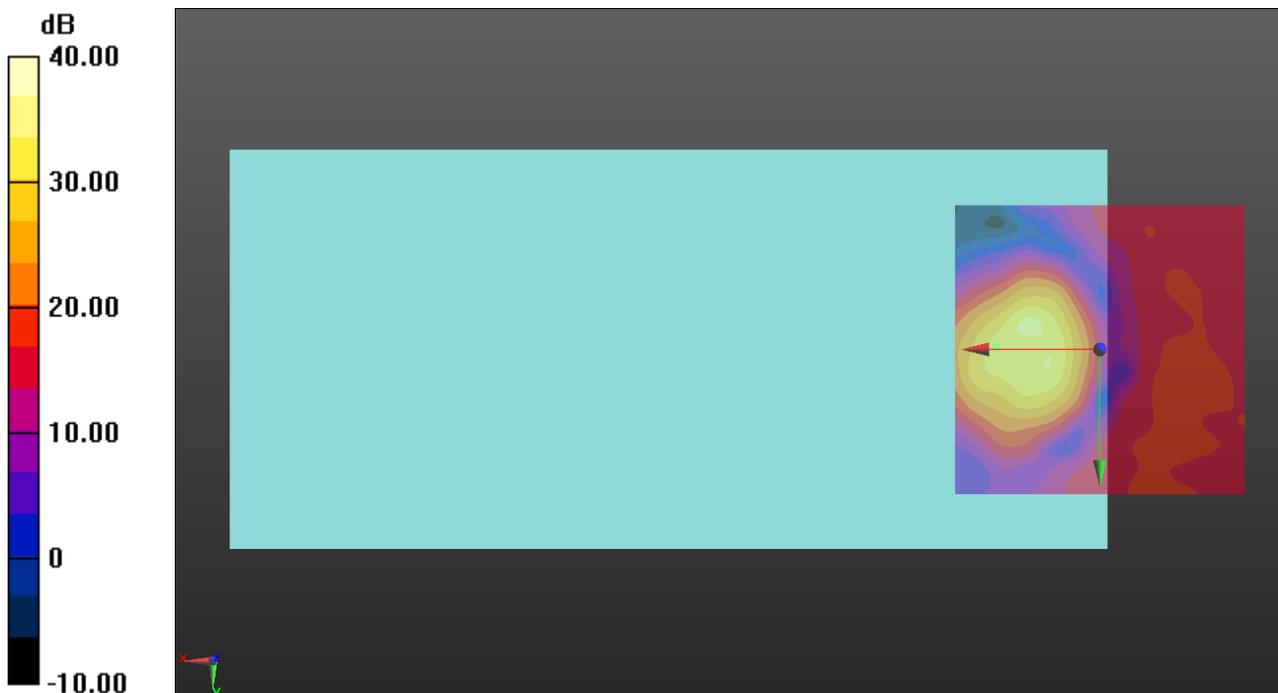
ABM1/ABM2 = 31.63 dB

ABM1 comp = 8.60 dBA/m

ABM2 = -23.03 dBA/m

BWC Factor = 0.16 dB

Location: 17.9, -0.4, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT EDGE

Communication System: UID 0, GPRS-FDD (TDMA, GMSK, 2 slot) (0); Frequency: 1880 MHz; Duty Cycle: 1:4.00037

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT GSM1900 EGPRS 2slots ch661 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 3000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

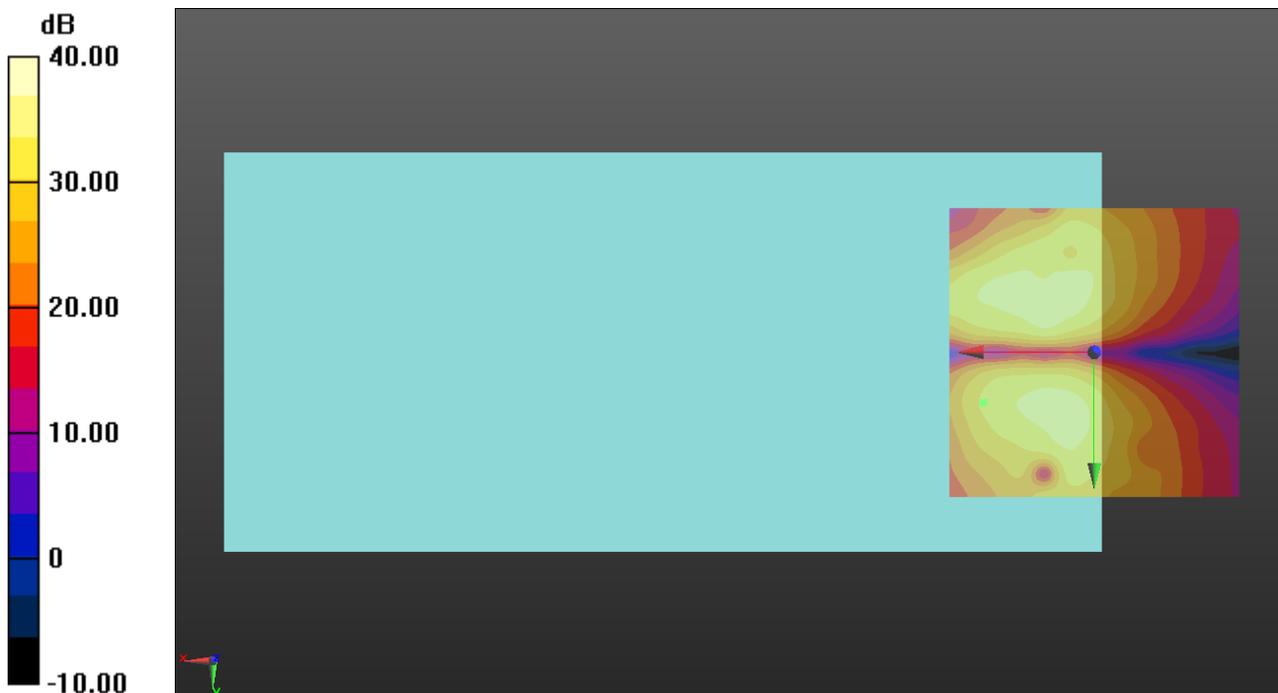
ABM1/ABM2 = 30.63 dB

ABM1 comp = -0.21 dBA/m

ABM2 = -30.84 dBA/m

BWC Factor = 0.16 dB

Location: 19.2, 8.7, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT HSUPA

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

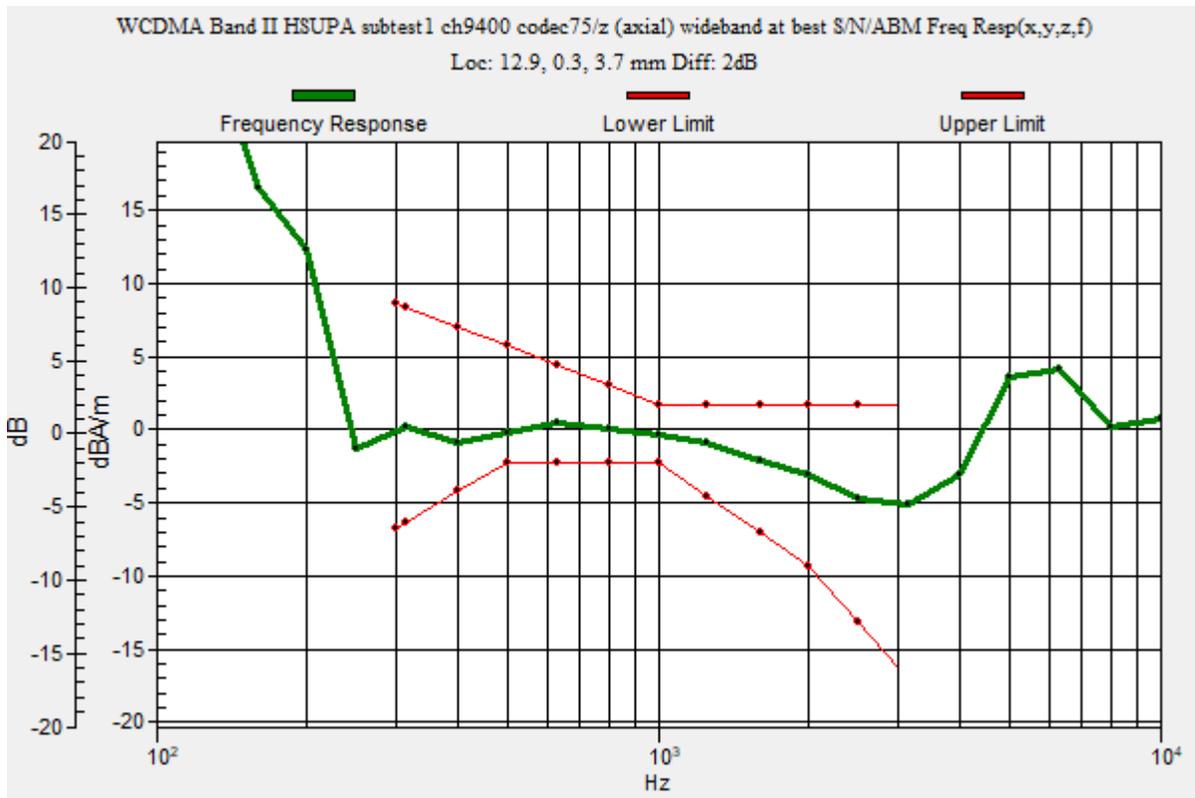
T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT WCDMA Band II HSUPA Subtest1 ch9400 codec75/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1):

Measurement grid: dx=10mm, dy=10mm
 Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav
 Output Gain: 39.17
 Measure Window Start: 300ms
 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 = 2.00 dB
 BWC Factor = 10.80 dB
 Location: 12.9, 0.3, 3.7 mm



OTT HSUPA

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT WCDMA Band II HSUPA subtest1 ch9400 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 3000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

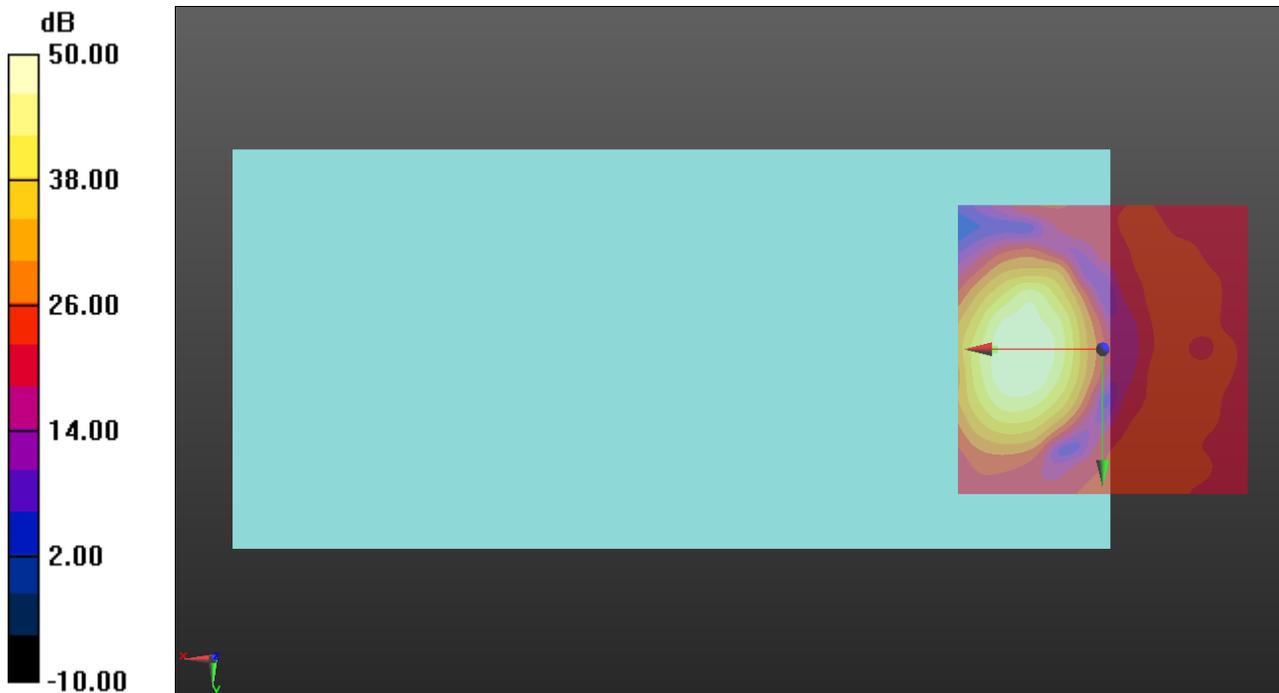
ABM1/ABM2 = 47.02 dB

ABM1 comp = 10.54 dBA/m

ABM2 = -36.48 dBA/m

BWC Factor = 0.16 dB

Location: 18.8, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT HSUPA

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT WCDMA Band II HSUPA subtest1 ch9400 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 3000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

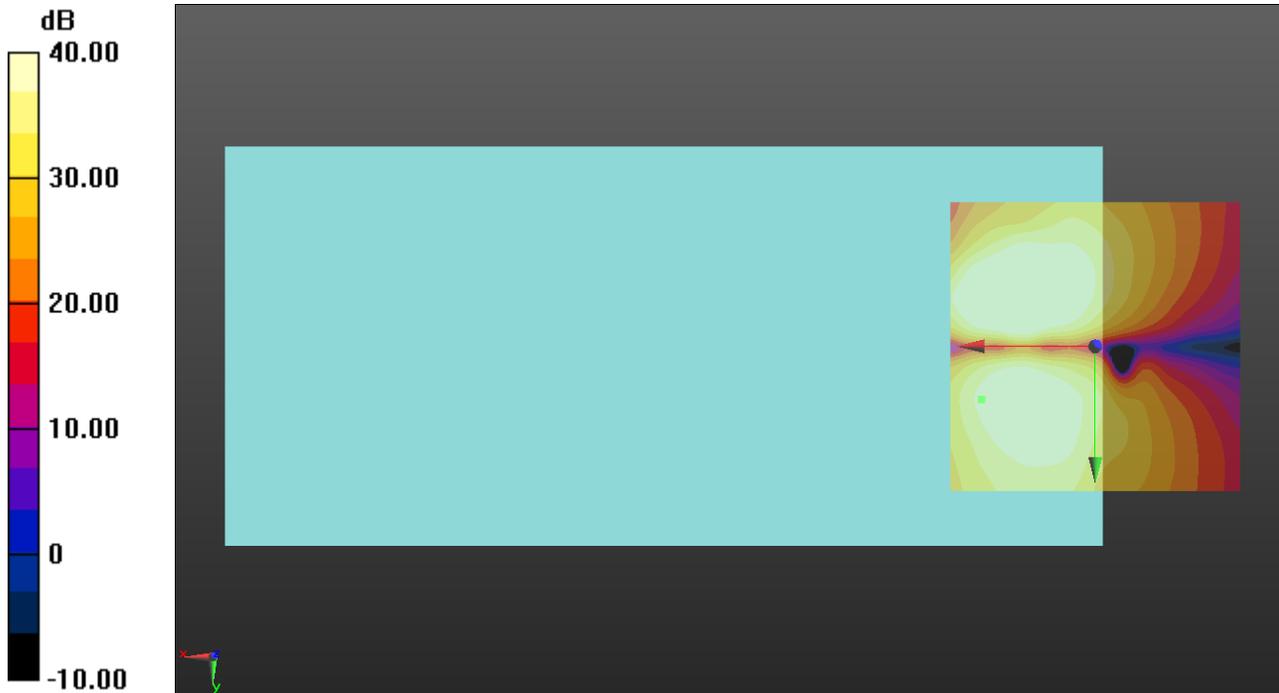
ABM1/ABM2 = 37.81 dB

ABM1 comp = 2.37 dBA/m

ABM2 = -35.44 dBA/m

BWC Factor = 0.16 dB

Location: 19.6, 9.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT HSUPA

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)/OTT WCDMA Band IV HSUPA subtest1 ch1413 codec75/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: 39.17

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

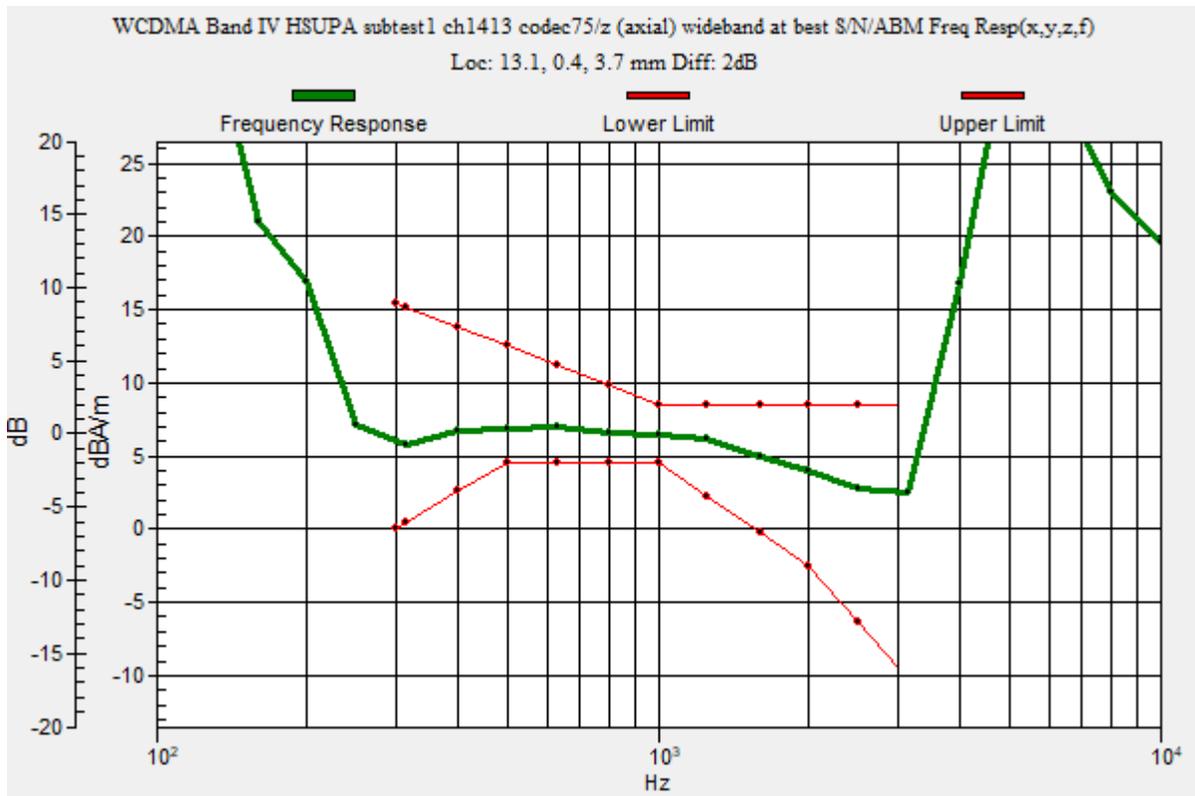
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: 13.1, 0.4, 3.7 mm



OTT HSUPA

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT WCDMA Band IV HSUPA subtest1 ch1413 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 3000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

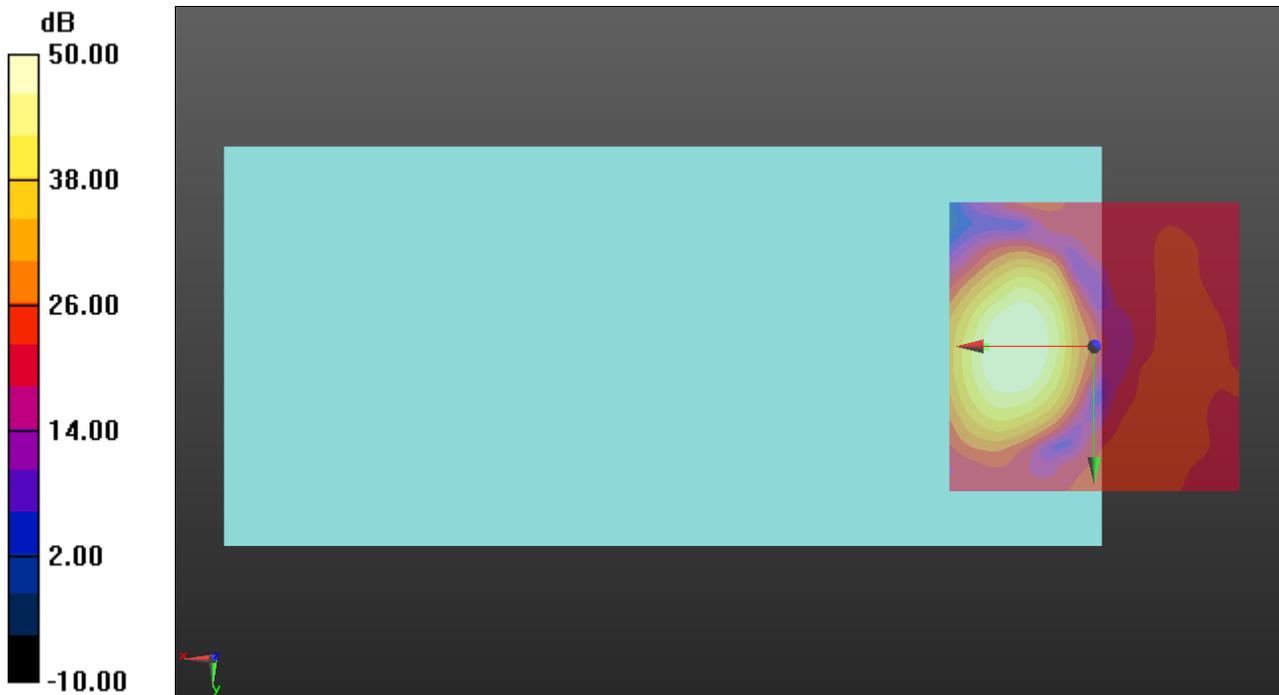
ABM1/ABM2 = 47.15 dB

ABM1 comp = 10.38 dBA/m

ABM2 = -36.77 dBA/m

BWC Factor = 0.16 dB

Location: 18.8, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT HSUPA

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT WCDMA Band IV HSUPA subtest1 ch1413 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 3000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

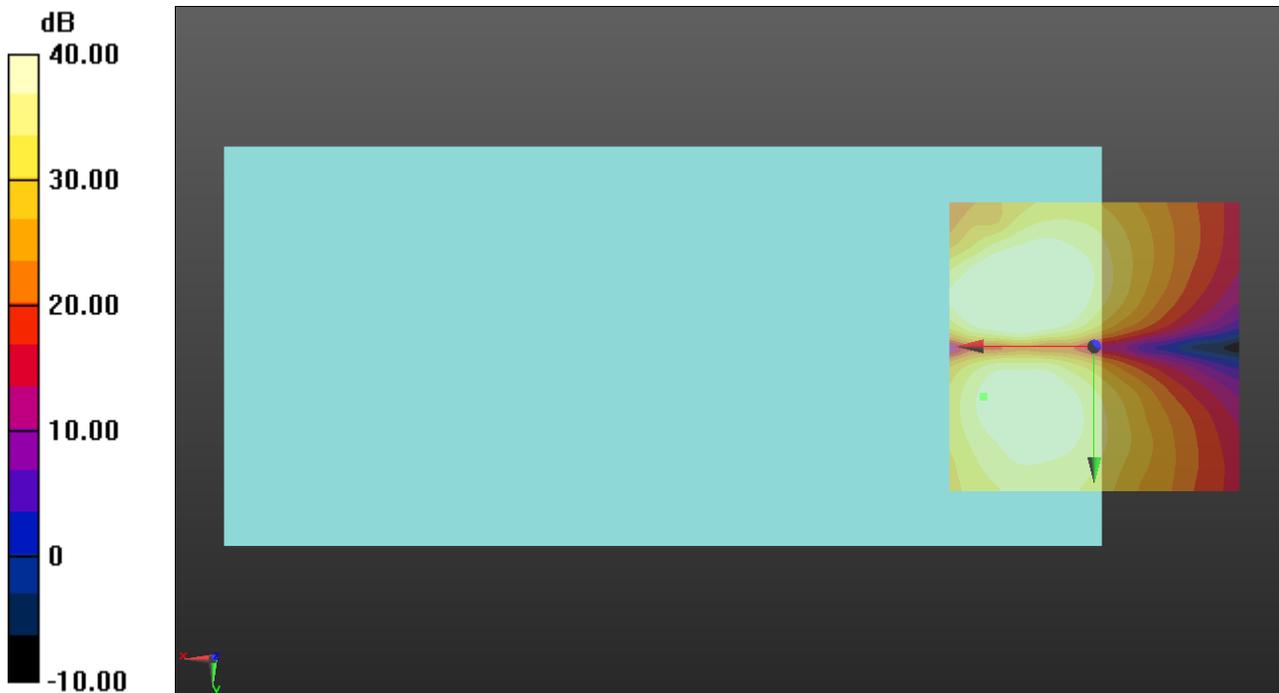
ABM1/ABM2 = 37.85 dB

ABM1 comp = 1.97 dBA/m

ABM2 = -35.88 dBA/m

BWC Factor = 0.16 dB

Location: 19.2, 8.7, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT HSUPA

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

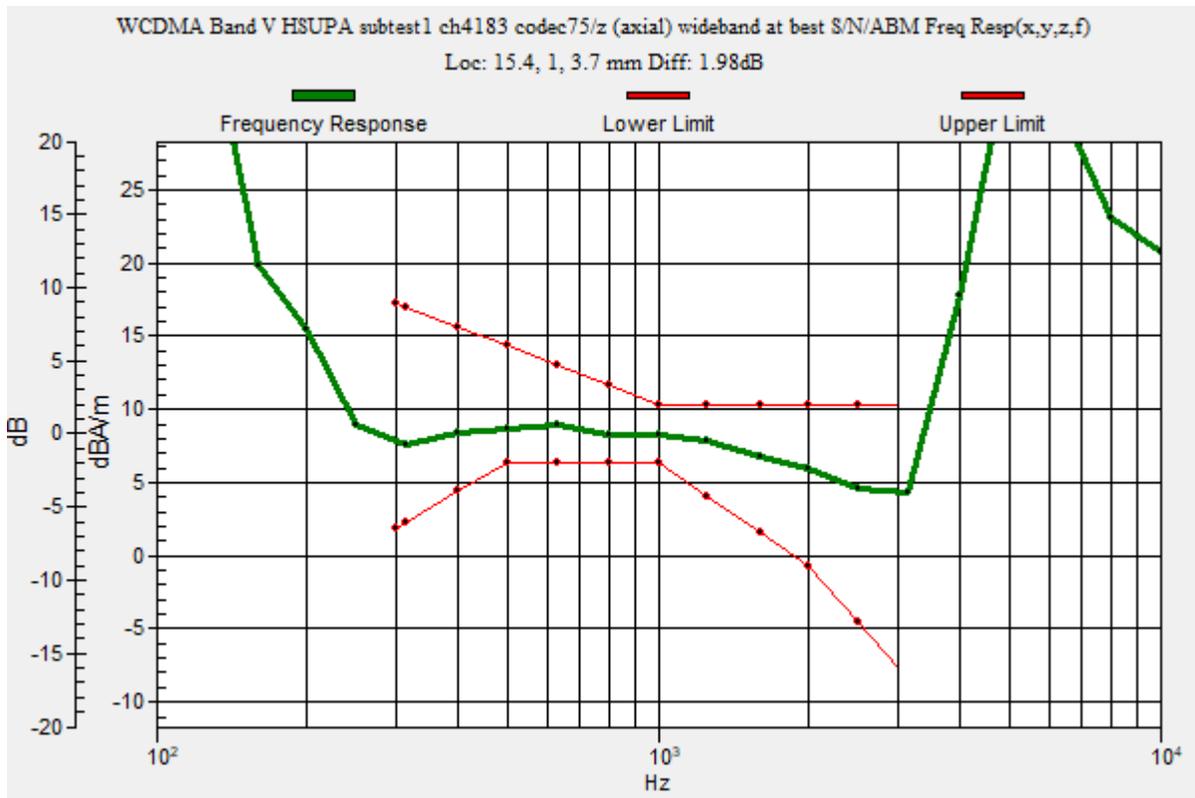
T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT WCDMA Band V HSUPA subtest1 ch4183 codec75/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1):

Measurement grid: dx=10mm, dy=10mm
 Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav
 Output Gain: 39.17
 Measure Window Start: 300ms
 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 = 1.98 dB
 BWC Factor = 10.80 dB
 Location: 15.4, 1, 3.7 mm



OTT HSUPA

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT WCDMA Band V HSUPA subtest1 ch4183 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 3000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

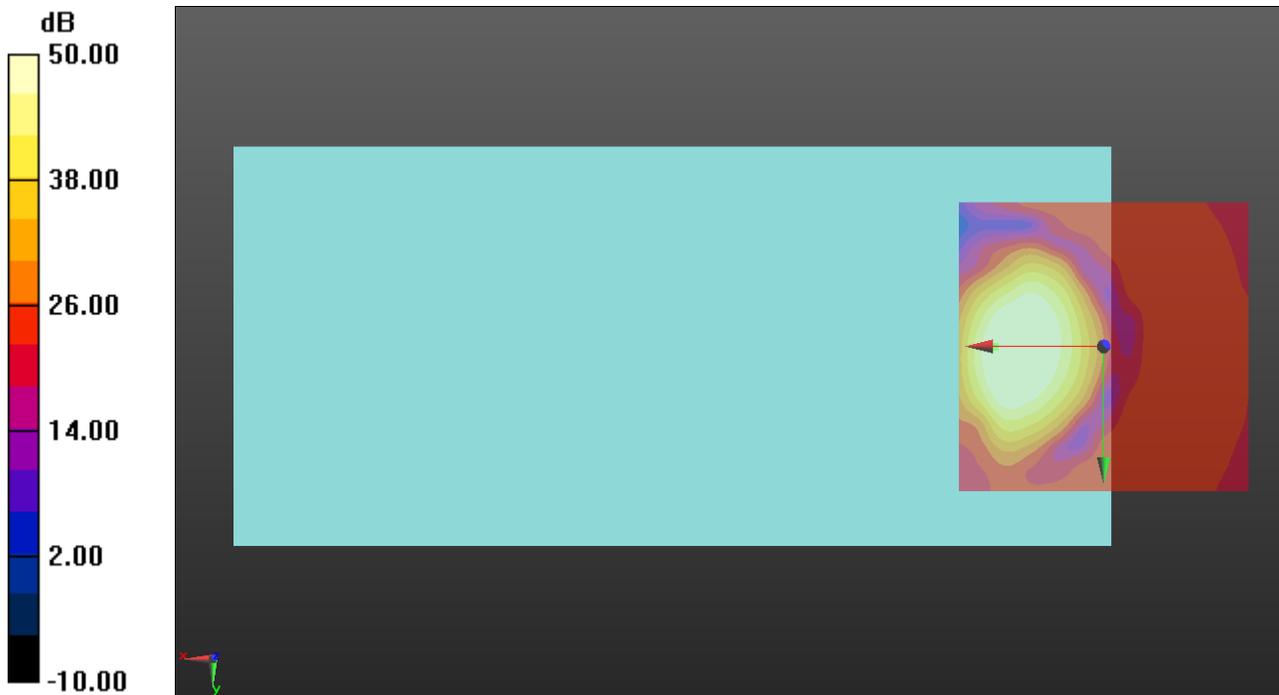
ABM1/ABM2 = 52.04 dB

ABM1 comp = 10.58 dBA/m

ABM2 = -41.46 dBA/m

BWC Factor = 0.16 dB

Location: 18.8, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT HSUPA

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT WCDMA Band V HSUPA subtest1 ch4183 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 3000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

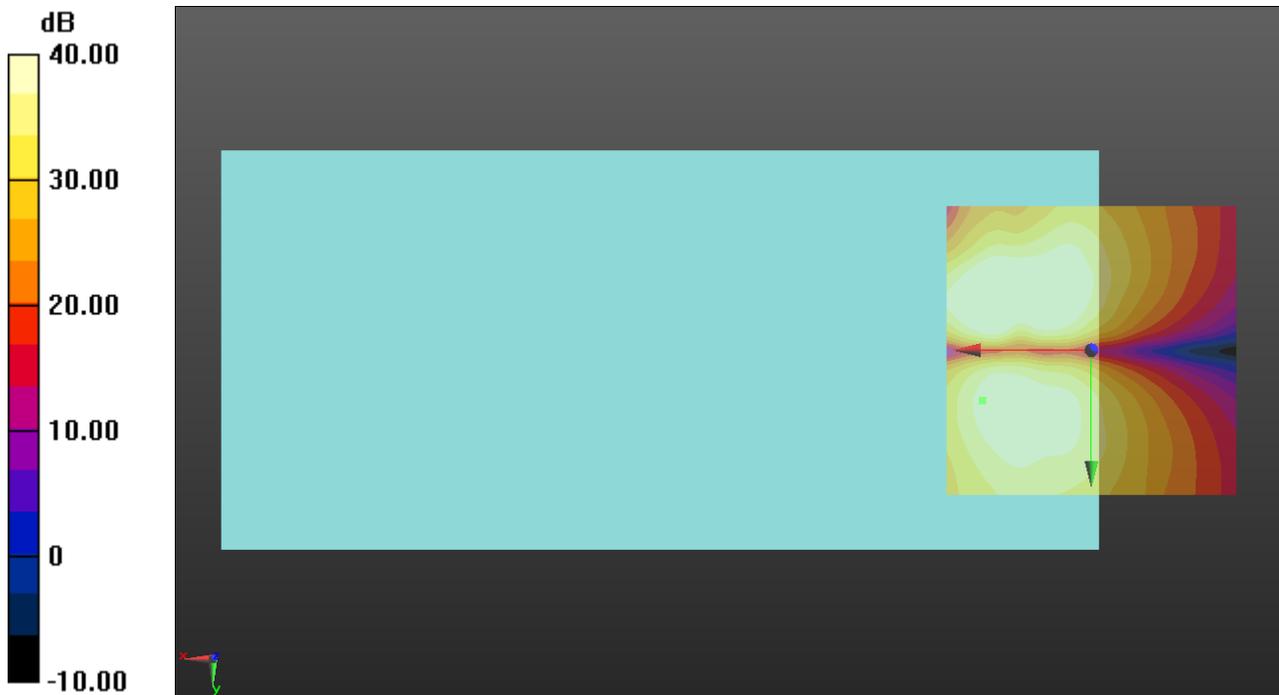
ABM1/ABM2 = 38.54 dB

ABM1 comp = 2.35 dBA/m

ABM2 = -36.19 dBA/m

BWC Factor = 0.16 dB

Location: 18.8, 8.7, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT LTE

Communication System: UID 0, LTE (FDD) (0); Frequency: 1880 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT LTE Band 2 20MHz 16QAM RB1/0 ch18900 codec75/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: 39.17

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

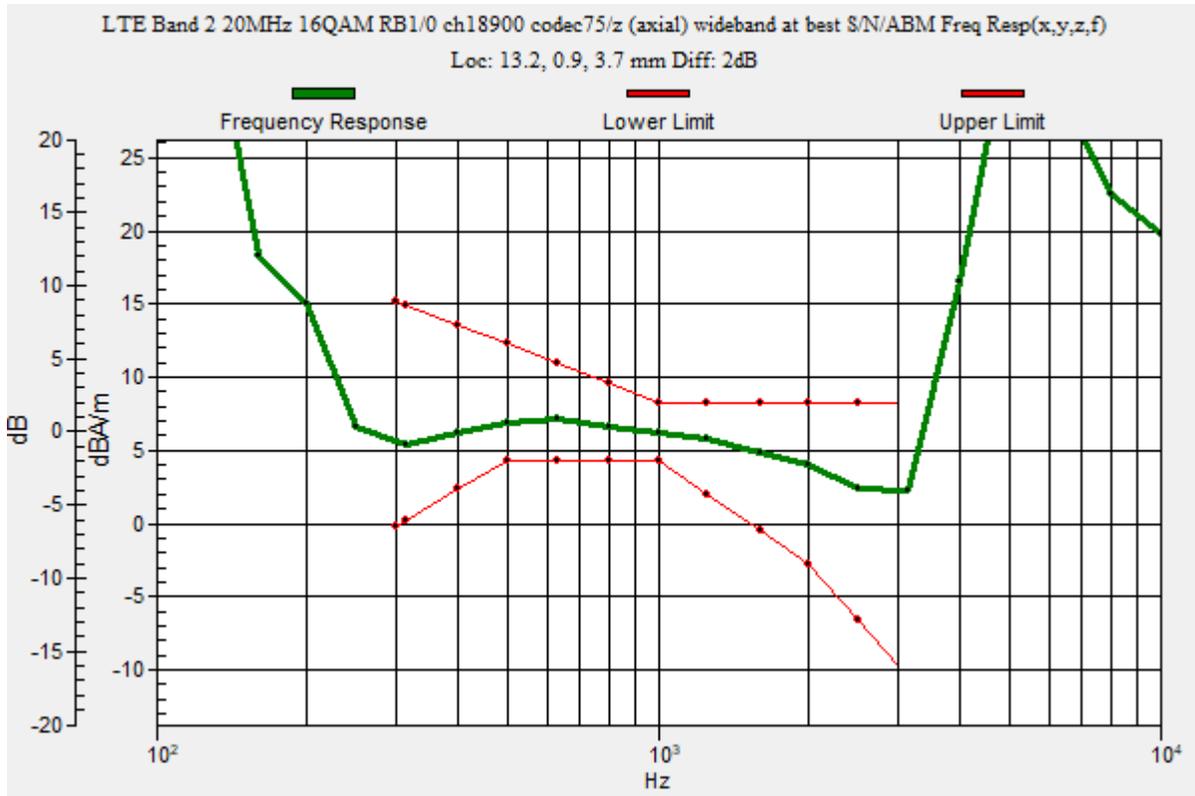
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: 13.2, 0.9, 3.7 mm



OTT LTE

Communication System: UID 0, LTE (FDD) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT LTE Band 2 20MHz 16QAM RB1/0 ch18900 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

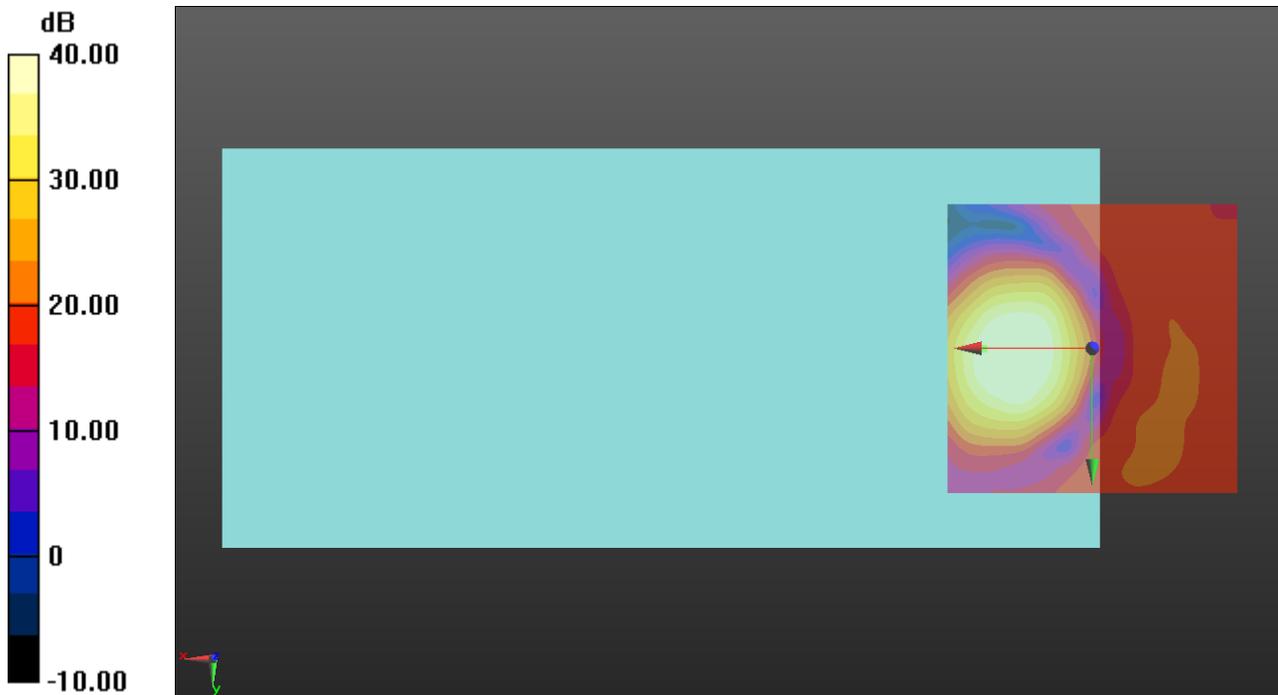
ABM1/ABM2 = 39.06 dB

ABM1 comp = 8.52 dBA/m

ABM2 = -30.54 dBA/m

BWC Factor = 0.16 dB

Location: 18.8, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT LTE

Communication System: UID 0, LTE (FDD) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT LTE Band 2 20MHz 16QAM RB1/0 ch18900 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

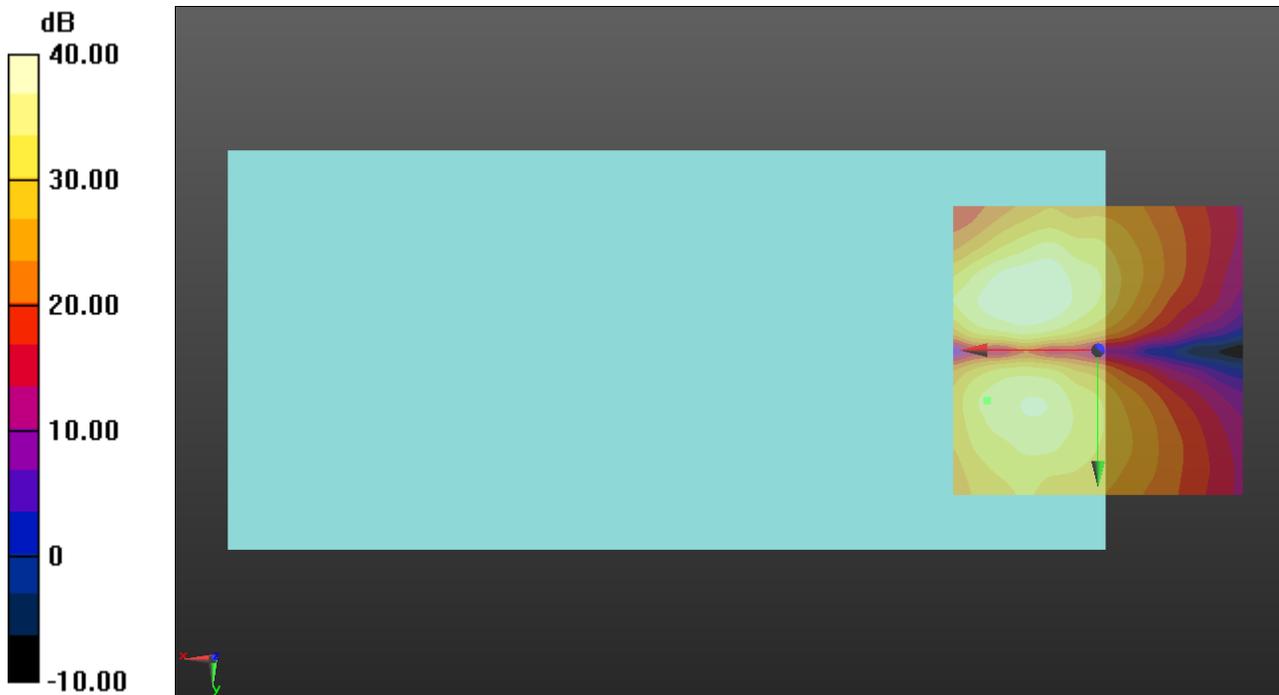
ABM1/ABM2 = 34.12 dB

ABM1 comp = 0.26 dBA/m

ABM2 = -33.86 dBA/m

BWC Factor = 0.16 dB

Location: 19.2, 8.7, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT LTE

Communication System: UID 0, LTE (FDD) (0); Frequency: 836.5 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT LTE Band 5 10MHz 16QAM RB1/0 ch20525 codec75/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: 39.17

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

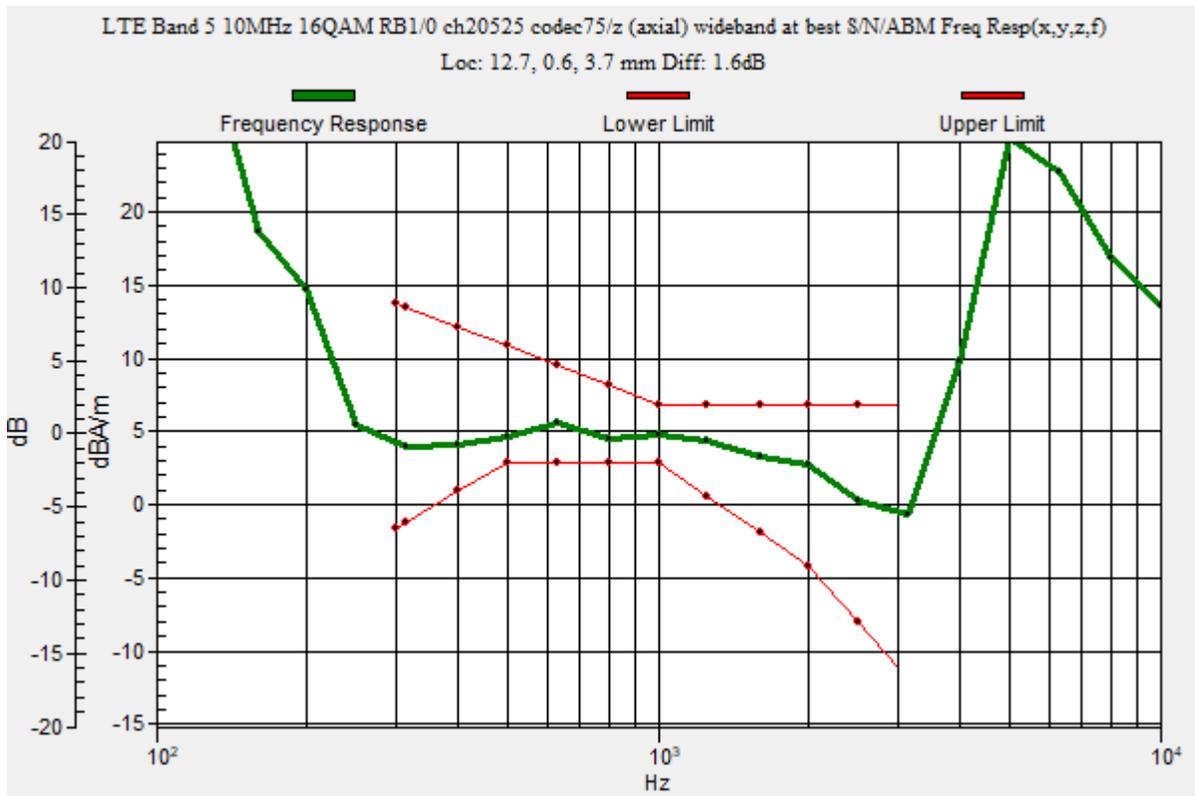
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.60 dB

BWC Factor = 10.80 dB

Location: 12.7, 0.6, 3.7 mm



OTT LTE

Communication System: UID 0, LTE (FDD) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT LTE Band 5 10MHz 16QAM RB1/0 ch20525 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

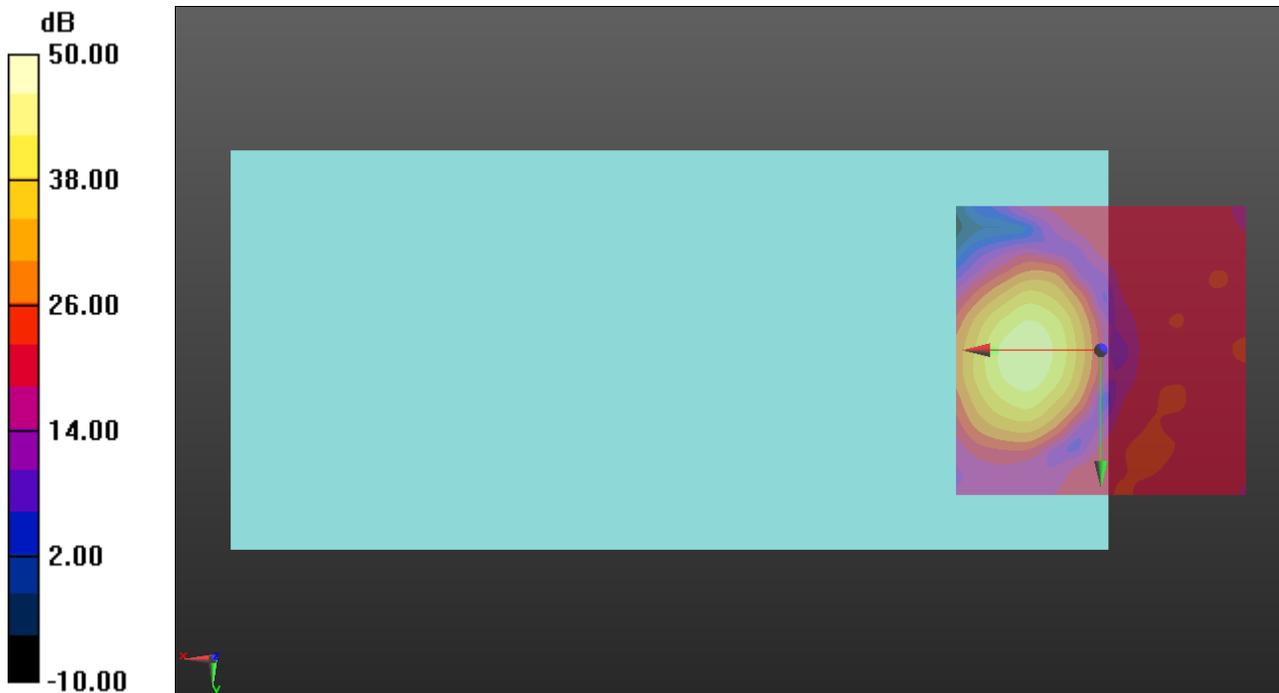
ABM1/ABM2 = 41.06 dB

ABM1 comp = 8.53 dBA/m

ABM2 = -32.53 dBA/m

BWC Factor = 0.16 dB

Location: 18.3, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT LTE

Communication System: UID 0, LTE (FDD) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT LTE Band 5 10MHz 16QAM RB1/0 ch20525 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

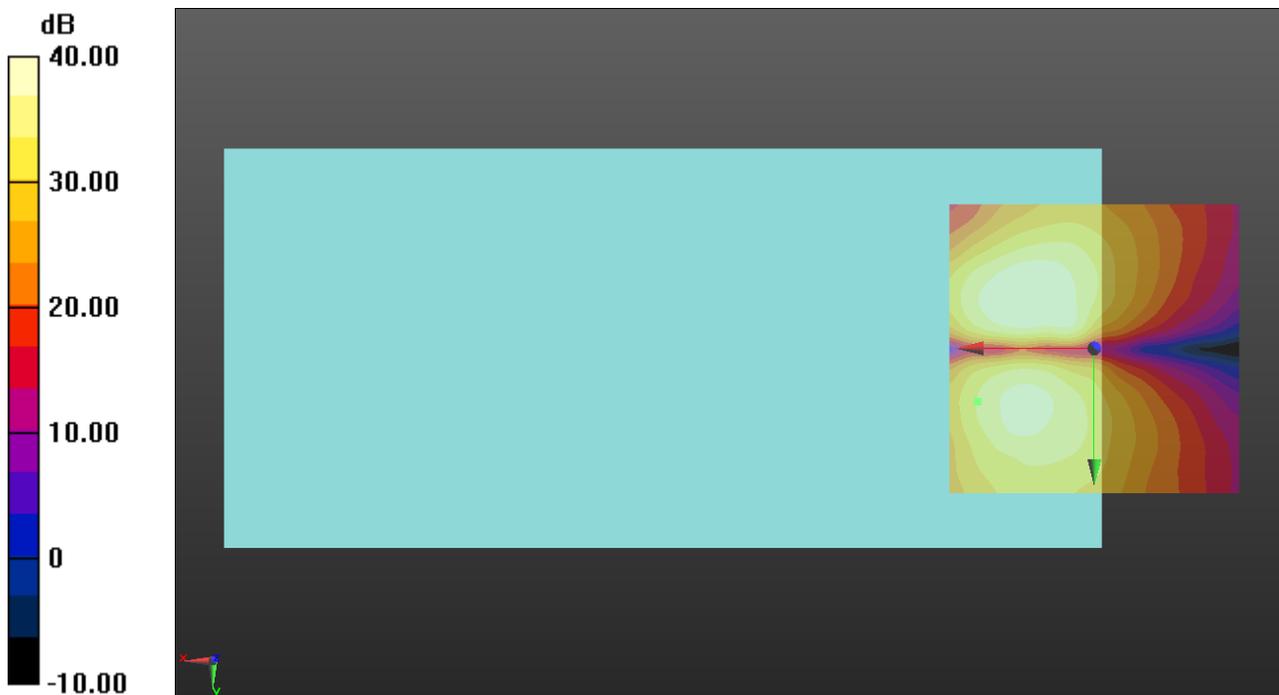
ABM1/ABM2 = 33.69 dB

ABM1 comp = 0.27 dBA/m

ABM2 = -33.42 dBA/m

BWC Factor = 0.16 dB

Location: 20, 9.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT LTE

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)/OTT LTE Band 12 10MHz 16QAM RB1/0 ch23095 codec75/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: 39.17

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

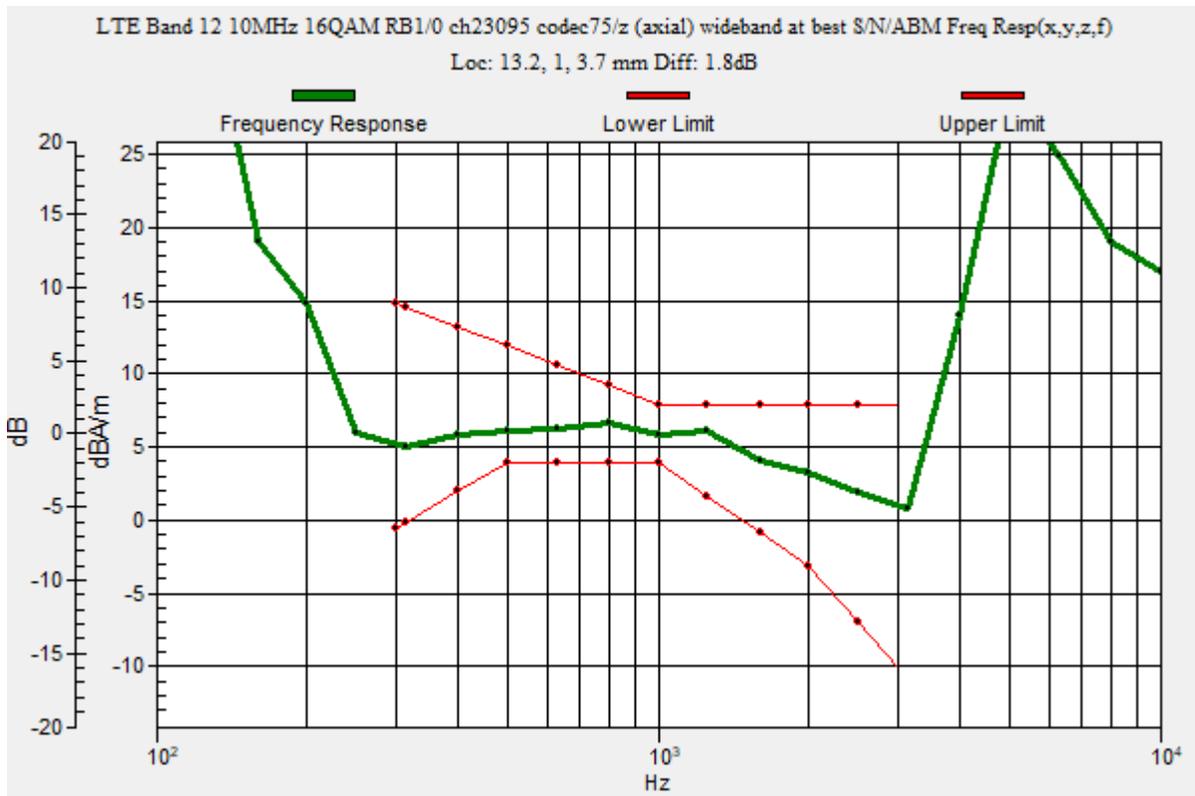
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.80 dB

BWC Factor = 10.80 dB

Location: 13.2, 1, 3.7 mm



OTT LTE

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT LTE Band 12 10MHz 16QAM RB1/0 ch23095 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

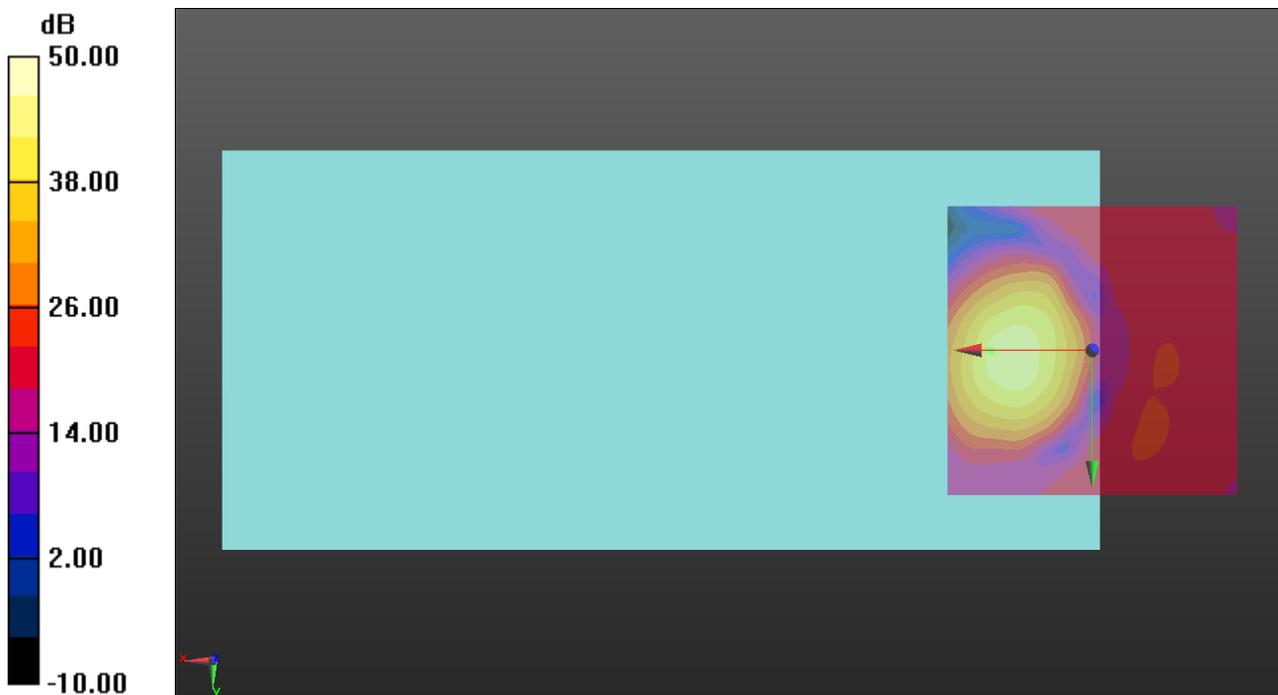
ABM1/ABM2 = 43.06 dB

ABM1 comp = 8.39 dBA/m

ABM2 = -34.67 dBA/m

BWC Factor = 0.16 dB

Location: 17.5, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT LTE

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT LTE Band 12 10MHz 16QAM RB1/0 ch23095 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

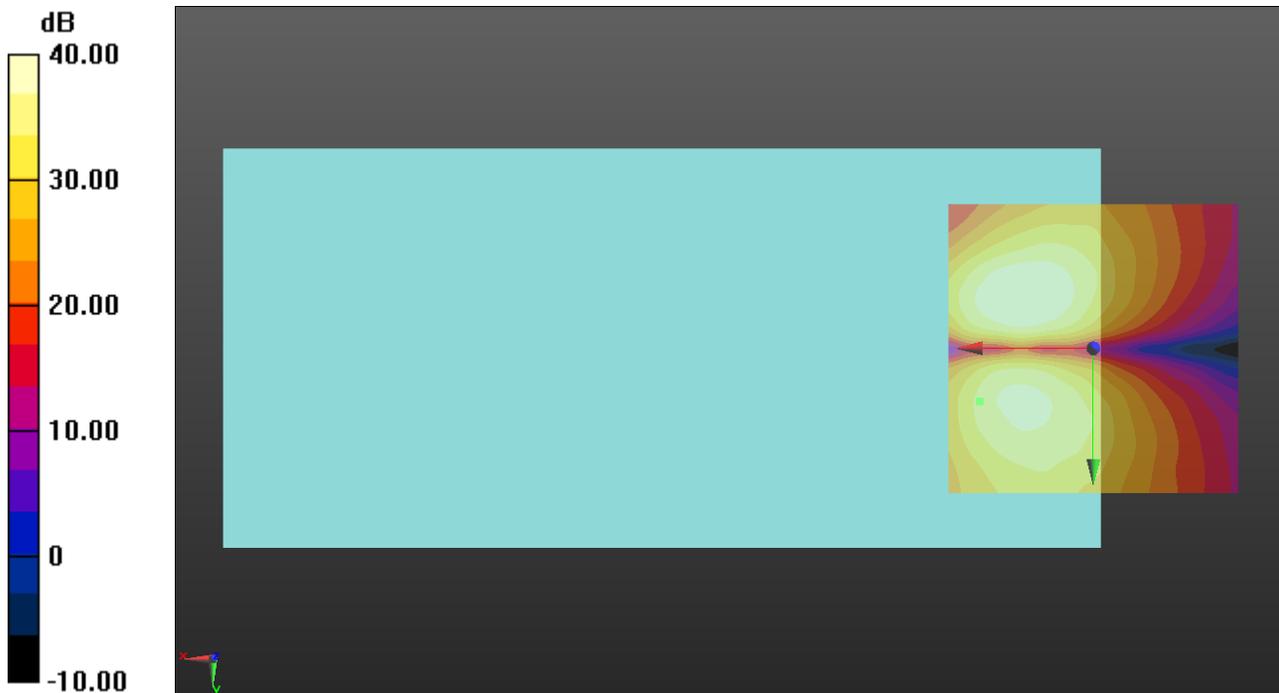
ABM1/ABM2 = 34.40 dB

ABM1 comp = 0.39 dBA/m

ABM2 = -34.01 dBA/m

BWC Factor = 0.16 dB

Location: 19.6, 9.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT LTE

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

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT LTE Band 66 20MHz 16QAM RB1/0 ch132322 codec75/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: 39.17

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

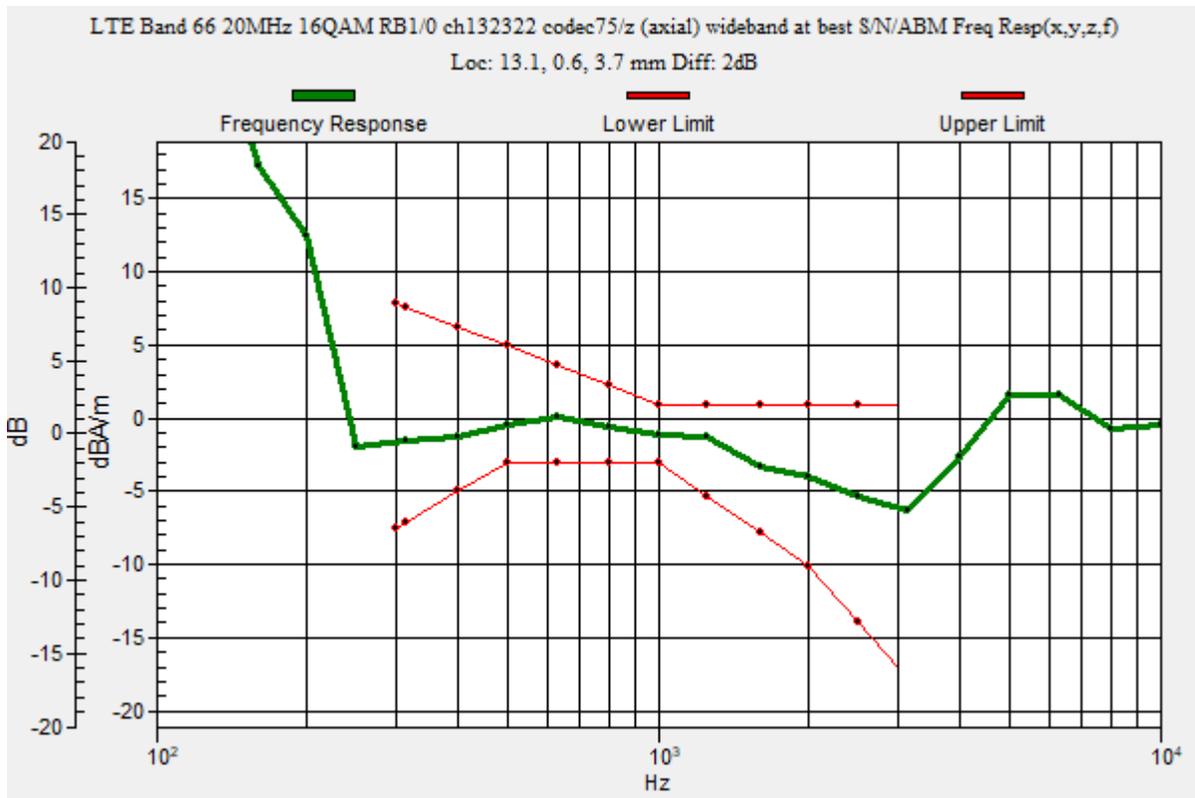
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: 13.1, 0.6, 3.7 mm



OTT LTE

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT LTE Band 66 20MHz 16QAM RB1/0 ch132322 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

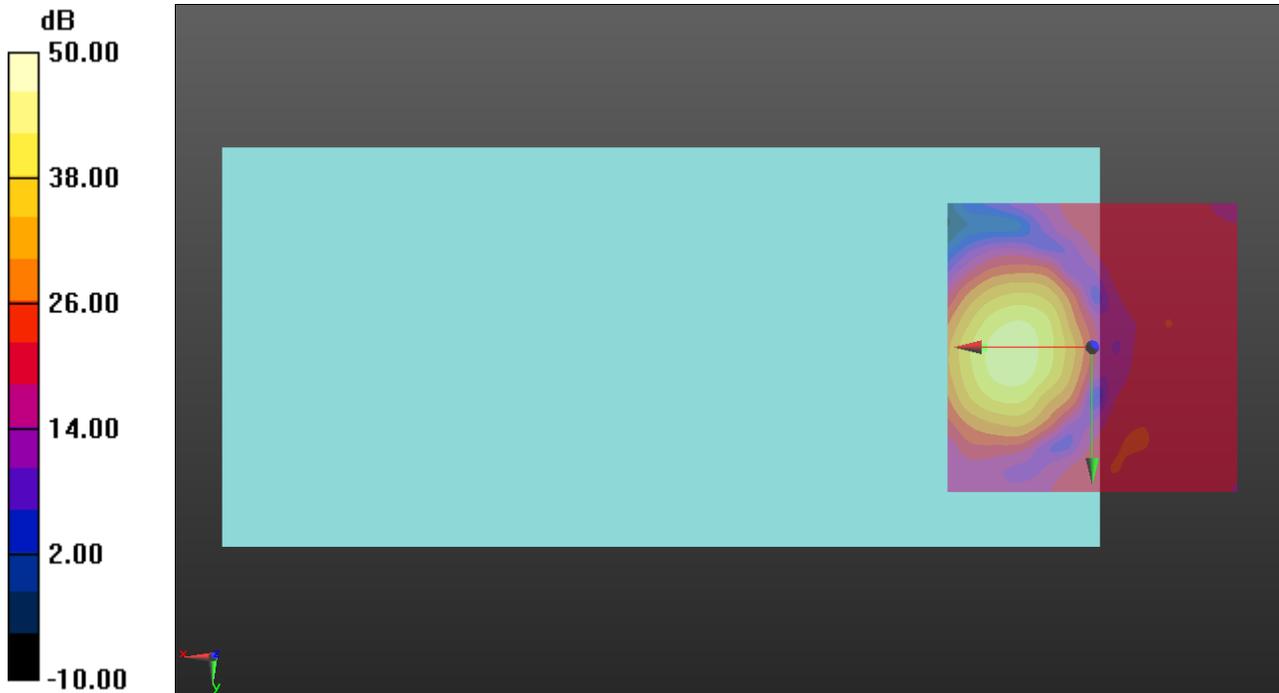
ABM1/ABM2 = 41.57 dB

ABM1 comp = 8.61 dBA/m

ABM2 = -32.96 dBA/m

BWC Factor = 0.16 dB

Location: 18.8, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT LTE

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT LTE Band 66 20MHz 16QAM RB1/0 ch132322 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

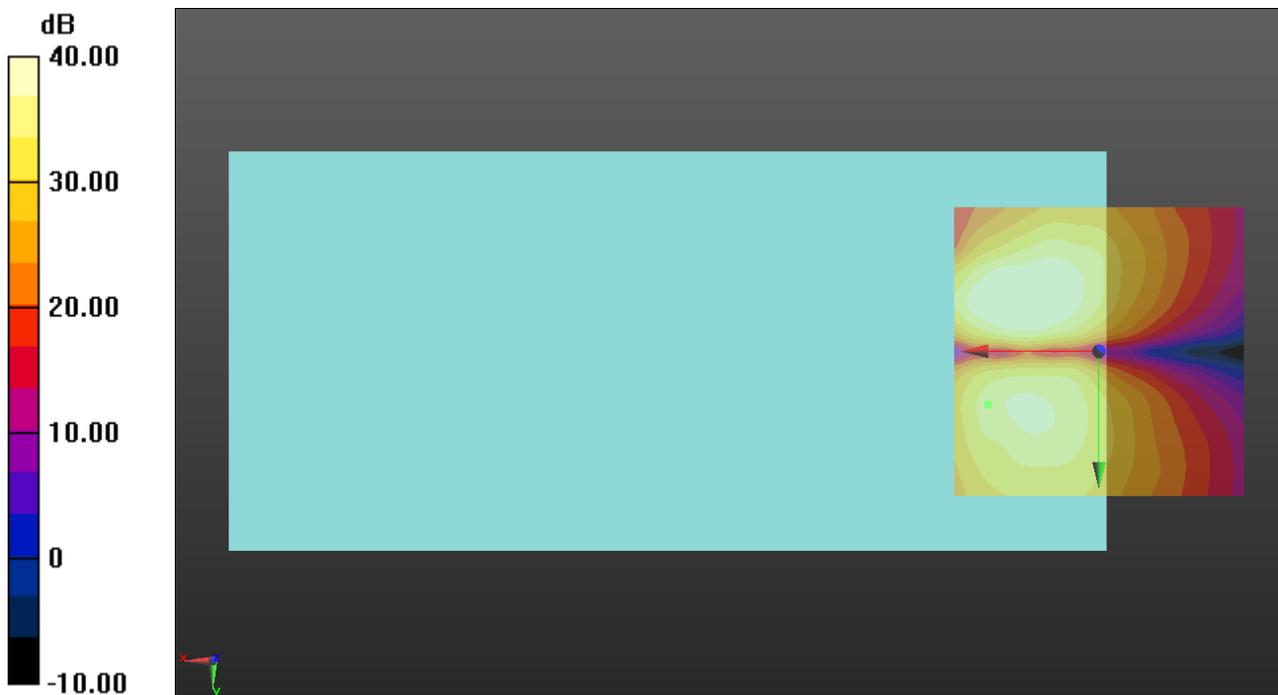
ABM1/ABM2 = 34.99 dB

ABM1 comp = 0.20 dBA/m

ABM2 = -34.79 dBA/m

BWC Factor = 0.16 dB

Location: 19.2, 9.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT LTE

Communication System: UID 0, LTE (TDD) (0); Frequency: 2593 MHz;Duty Cycle: 1:2.30675

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT LTE Band 41 20MHz QPSK RB1/0 ch40620 codec75/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: 39.17

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

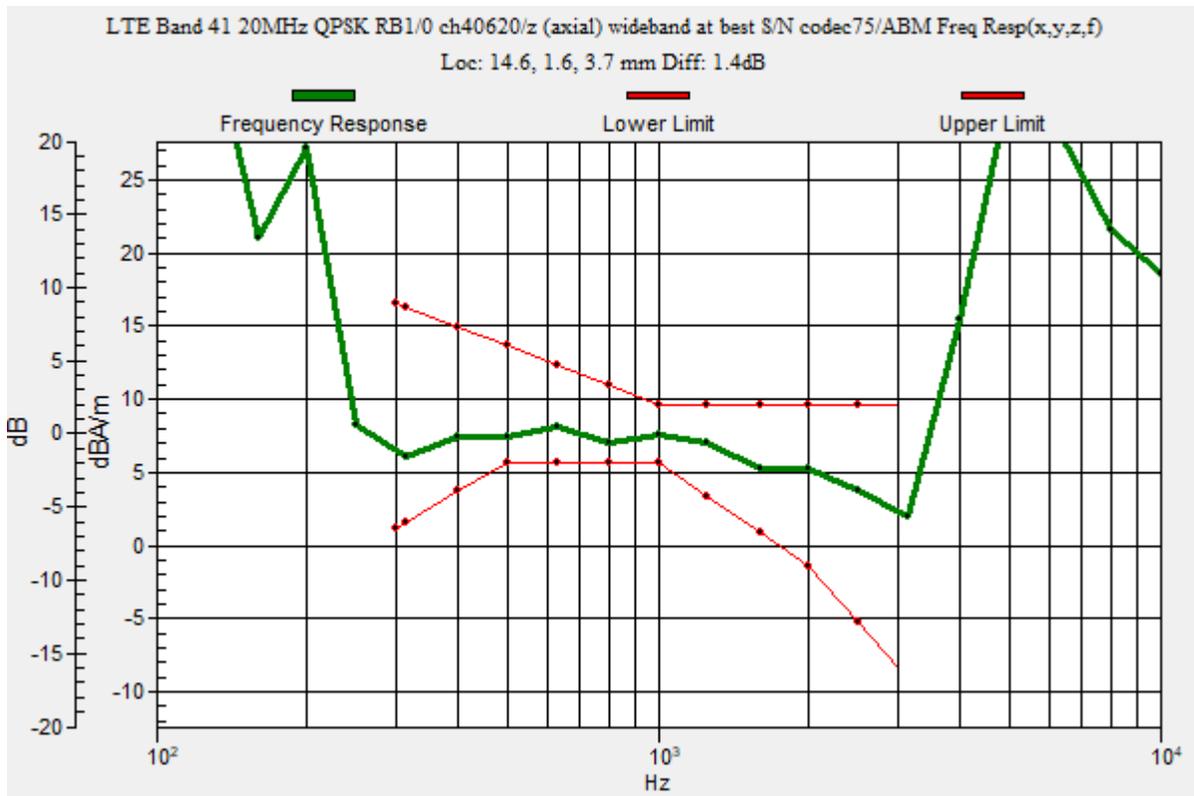
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.40 dB

BWC Factor = 10.80 dB

Location: 14.6, 1.6, 3.7 mm



OTT LTE

Communication System: UID 0, LTE (TDD) (0); Frequency: 2593 MHz; Duty Cycle: 1:2.30675

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT LTE Band 41 20MHz QPSK RB1/0 ch40620 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

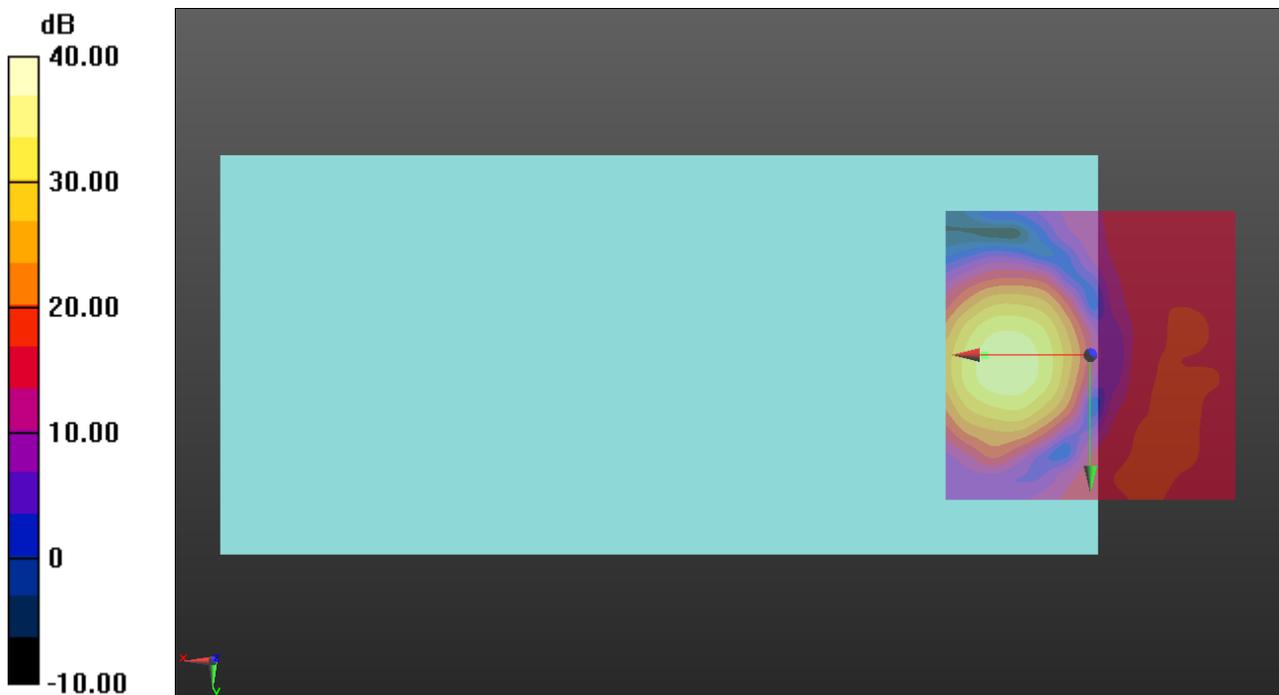
ABM1/ABM2 = 34.62 dB

ABM1 comp = 8.21 dBA/m

ABM2 = -26.41 dBA/m

BWC Factor = 0.16 dB

Location: 18.3, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT LTE

Communication System: UID 0, LTE (TDD) (0); Frequency: 2593 MHz; Duty Cycle: 1:2.30675

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT LTE Band 41 20MHz QPSK RB1/0 ch40620 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

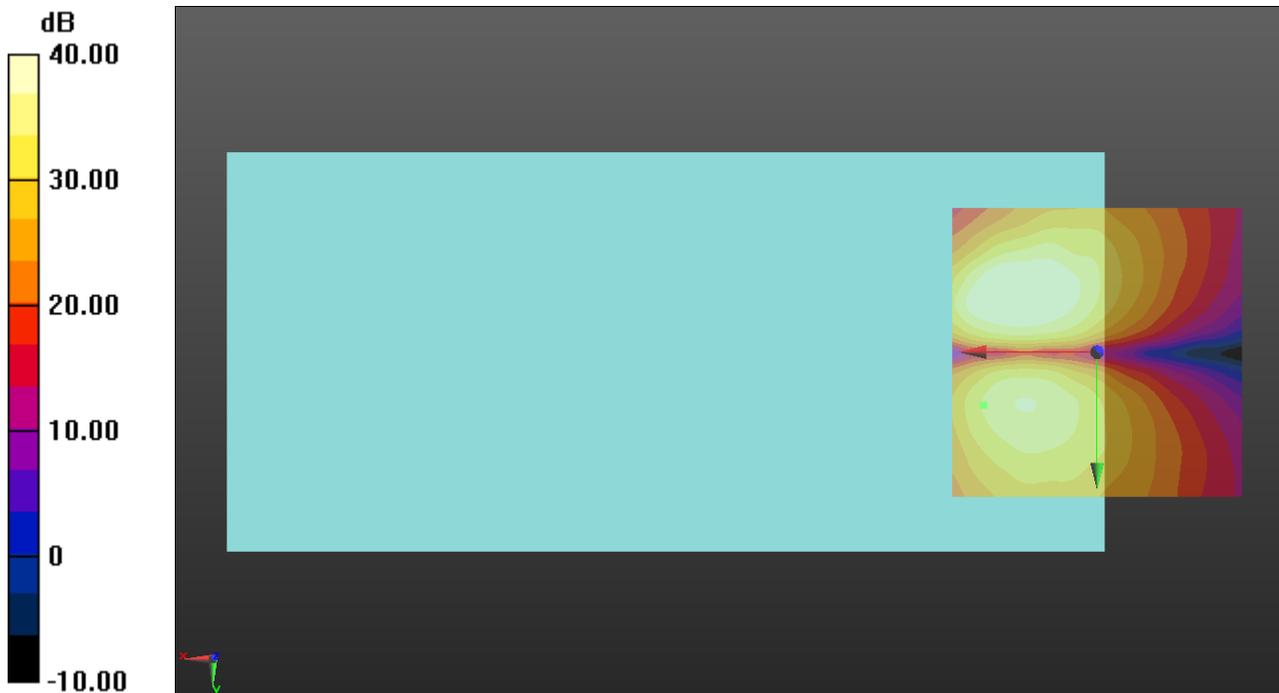
ABM1/ABM2 = 33.73 dB

ABM1 comp = 0.42 dBA/m

ABM2 = -33.31 dBA/m

BWC Factor = 0.16 dB

Location: 19.6, 9.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT WiFi

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)/OTT WiFi Ant 1/802.11b_1Mbps ch6 codec 75/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: 39.17

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

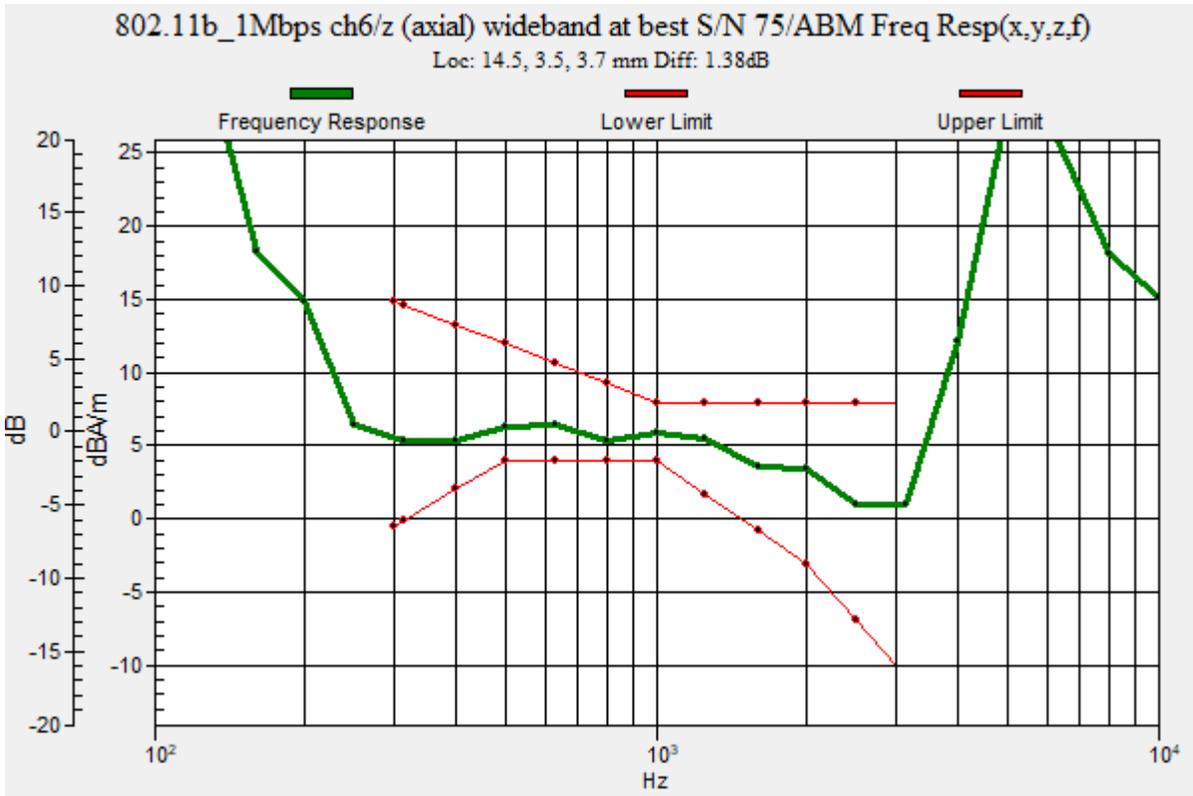
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.38 dB

BWC Factor = 10.80 dB

Location: 14.5, 3.5, 3.7 mm



OTT WiFi

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 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT WiFi Ant1/802.11b_1Mbps ch6 codec 75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

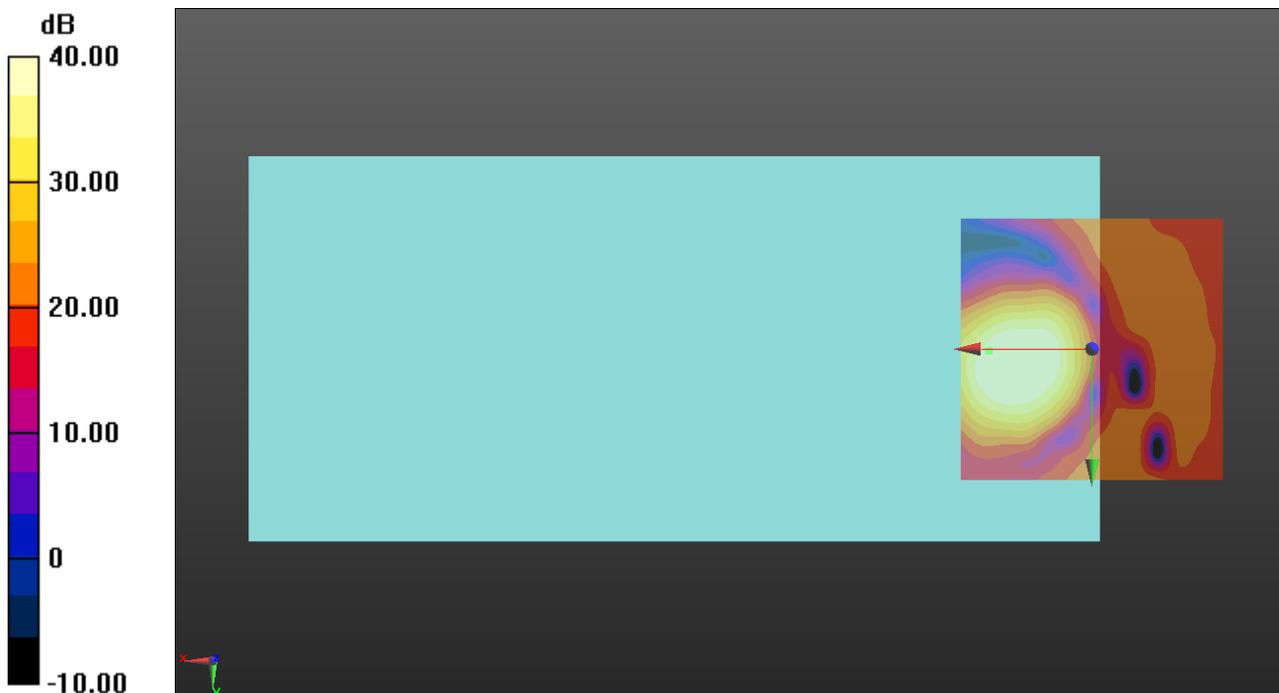
ABM1/ABM2 = 38.74 dB

ABM1 comp = 8.76 dBA/m

ABM2 = -29.98 dBA/m

BWC Factor = 0.16 dB

Location: 19.6, 0.4, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT WiFi

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 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT WiFi Ant1/802.11b_1Mbps ch6 codec 75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

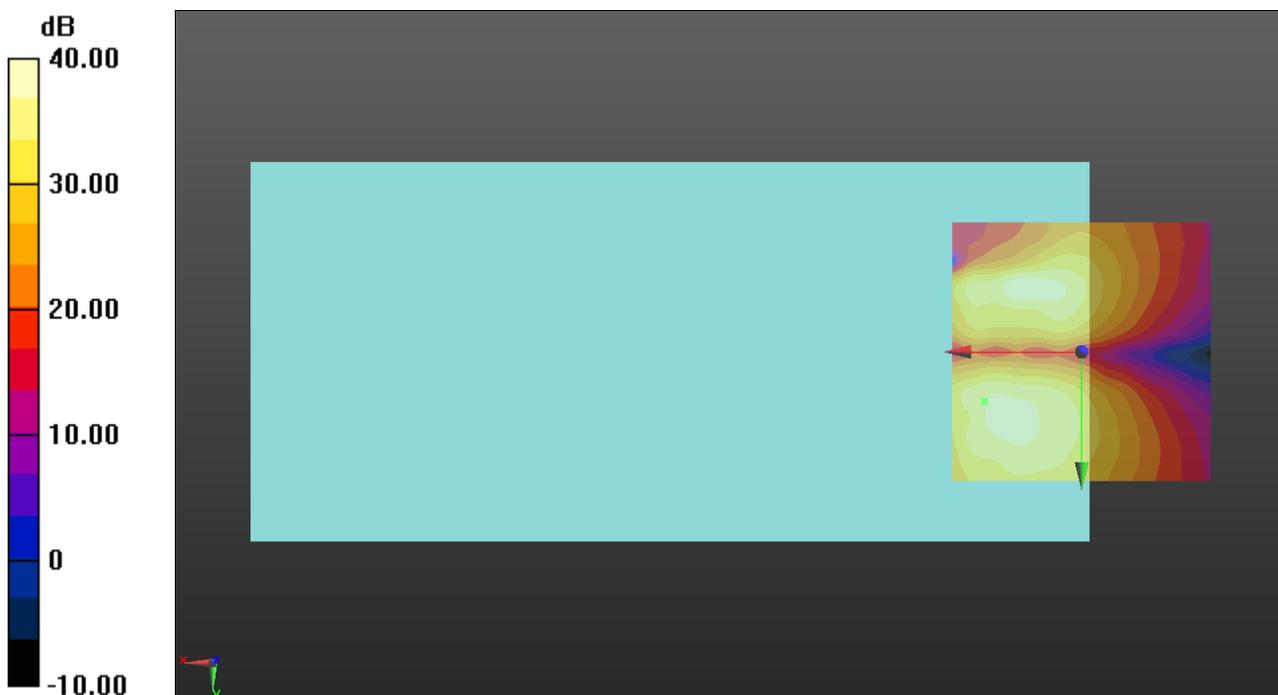
ABM1/ABM2 = 36.75 dB

ABM1 comp = 0.53 dBA/m

ABM2 = -36.22 dBA/m

BWC Factor = 0.16 dB

Location: 18.8, 9.6, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT WiFi

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)/OTT WiFi Ant 1/802.11ac_VHT80 ch42 MCS0 codec 75/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: 39.17

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

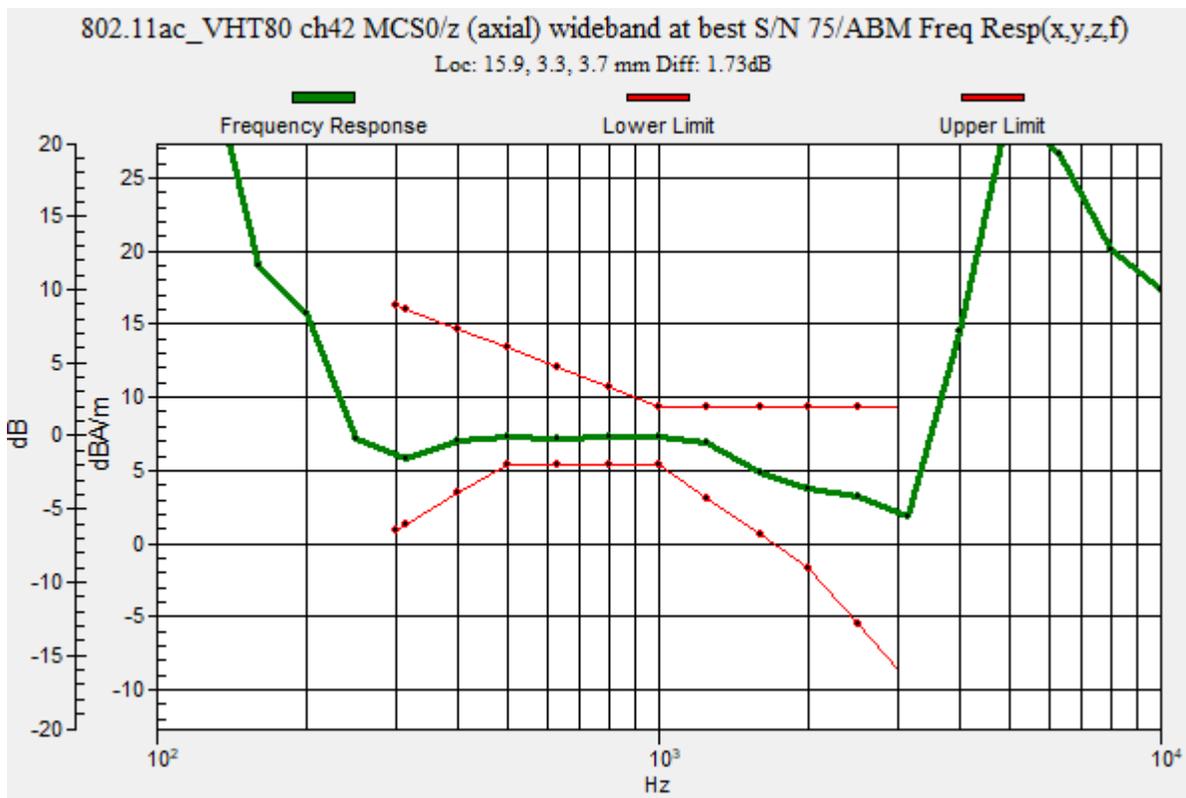
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.73 dB

BWC Factor = 10.80 dB

Location: 15.9, 3.3, 3.7 mm



OTT WiFi

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 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT WiFi Ant 1/802.11ac_VHT80 ch42 MCS0 codec 75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

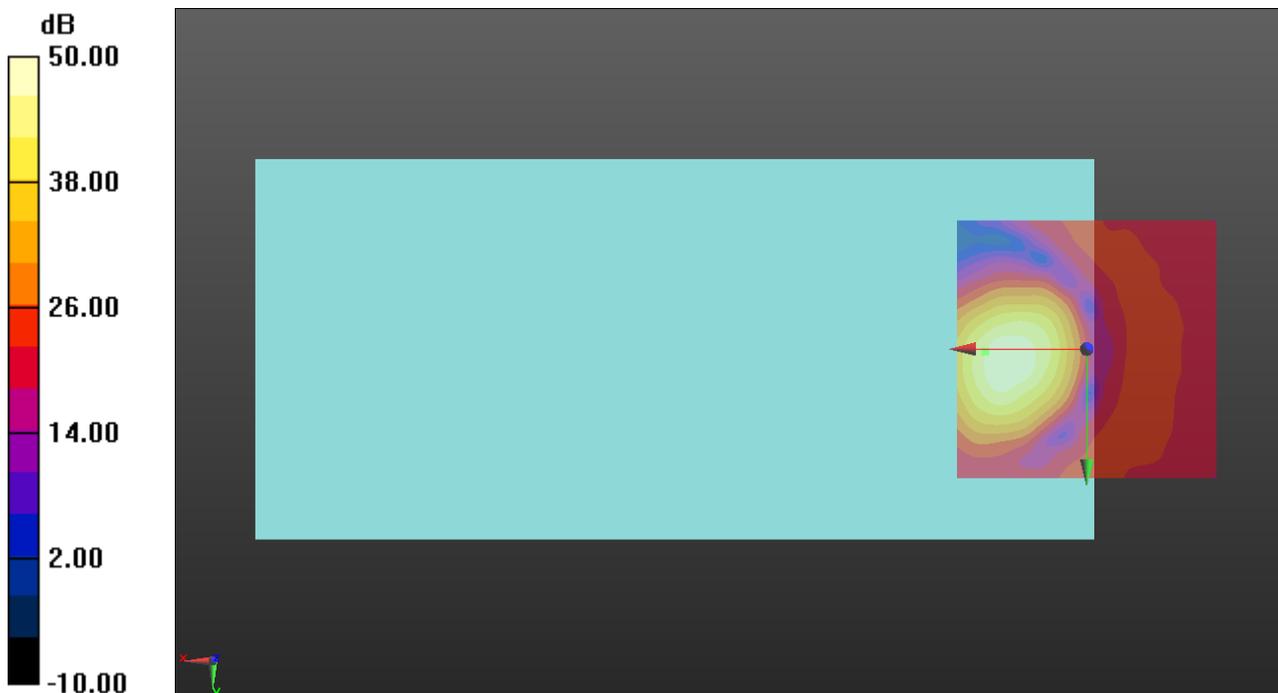
ABM1/ABM2 = 45.91 dB

ABM1 comp = 8.79 dBA/m

ABM2 = -37.12 dBA/m

BWC Factor = 0.16 dB

Location: 19.6, 0.4, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT WiFi

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 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT WiFi Ant 1/802.11ac_VHT80 ch42 MCS0 codec 75/y (transversal) 4.2mm 50 x 50 75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

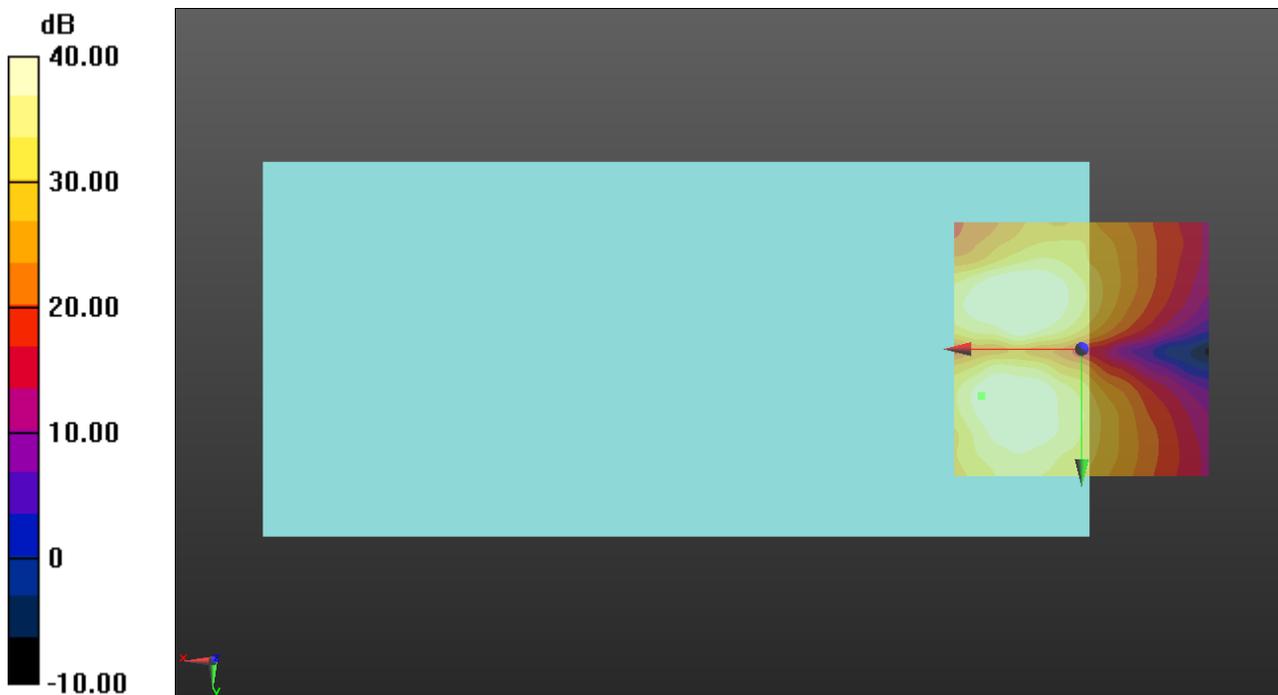
ABM1/ABM2 = 38.71 dB

ABM1 comp = 0.68 dBA/m

ABM2 = -38.03 dBA/m

BWC Factor = 0.16 dB

Location: 19.6, 9.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT WiFi

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)/OTT WiFi Ant 1 802.11ac_VHT80 ch58 MCS0 codec75/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: 39.17

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

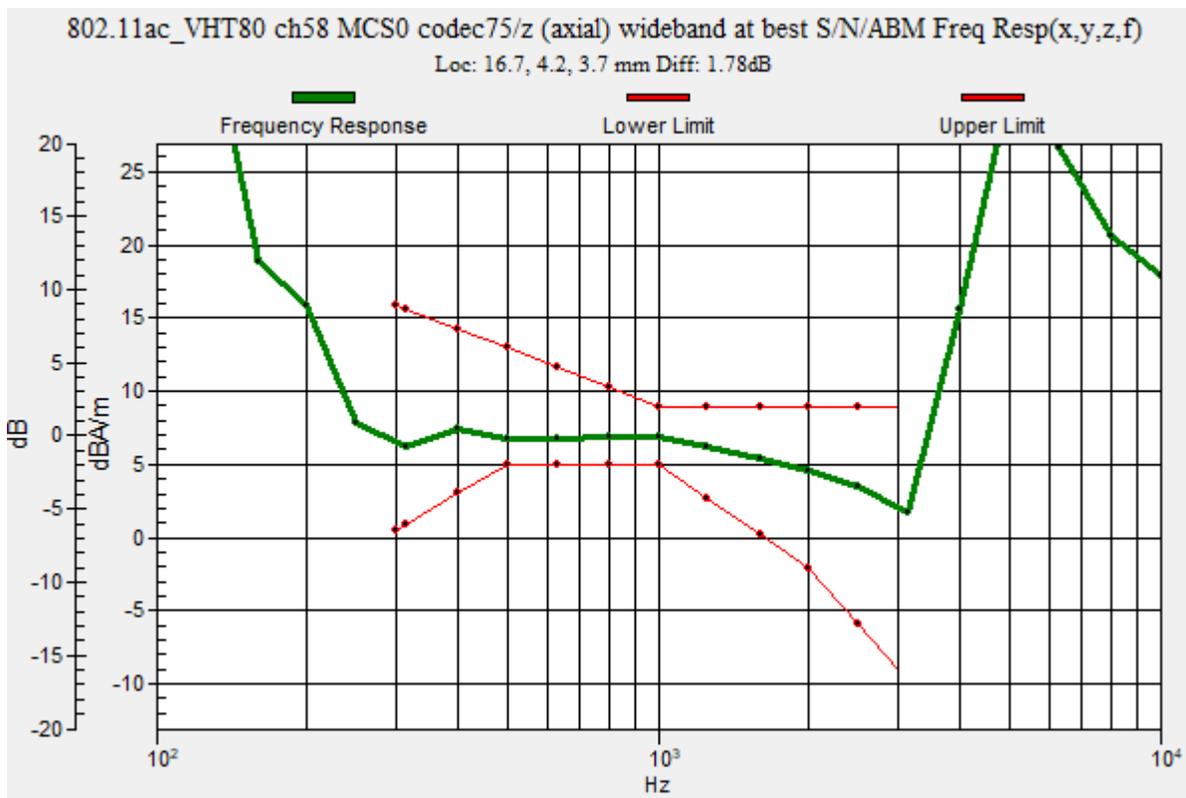
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.78 dB

BWC Factor = 10.80 dB

Location: 16.7, 4.2, 3.7 mm



OTT WiFi

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 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT WiFi Ant 1/802.11ac_VHT80 ch58 MCS0 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

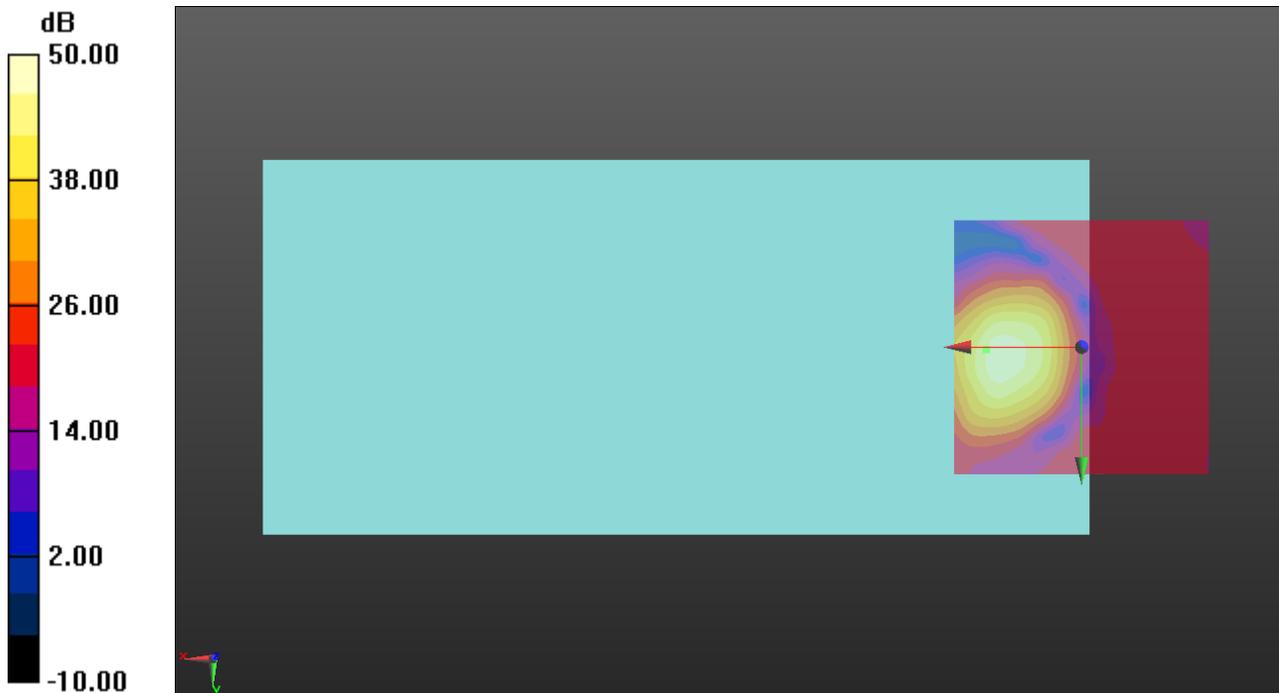
ABM1/ABM2 = 45.80 dB

ABM1 comp = 8.44 dBA/m

ABM2 = -37.36 dBA/m

BWC Factor = 0.16 dB

Location: 18.8, 0.4, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT WiFi

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 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT WiFi Ant 1/802.11ac_VHT80 ch58 MCS0 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

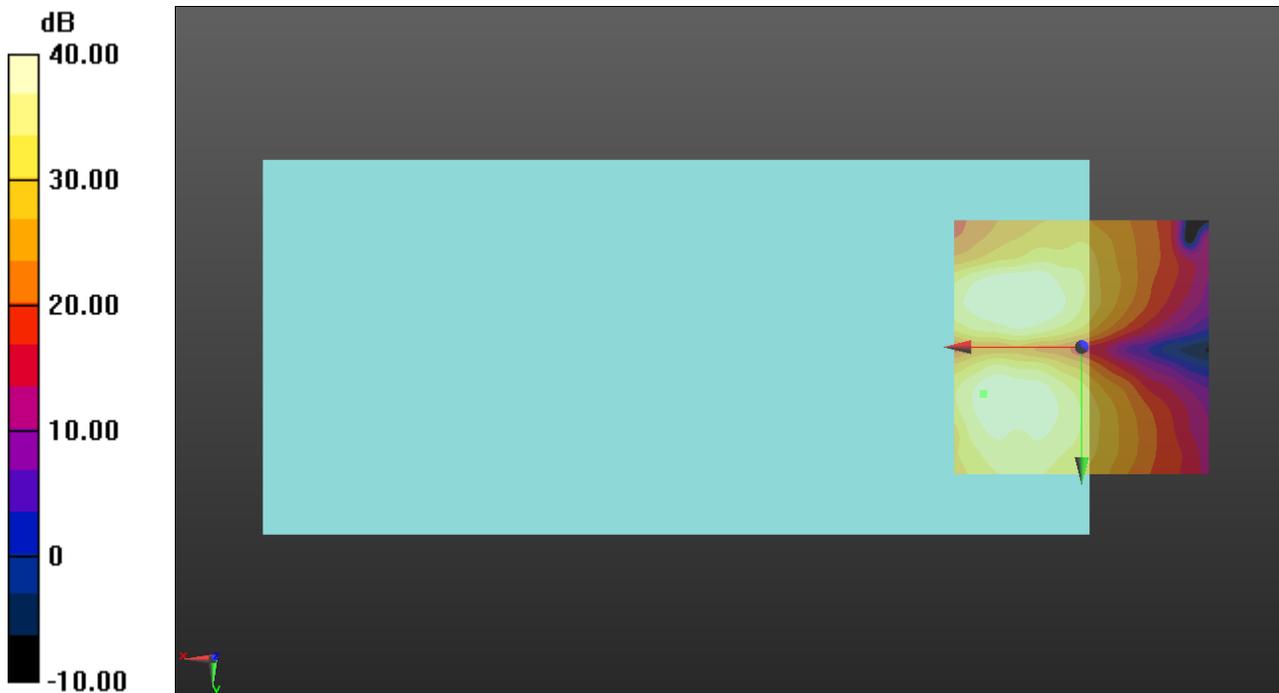
ABM1/ABM2 = 38.65 dB

ABM1 comp = 0.45 dBA/m

ABM2 = -38.20 dBA/m

BWC Factor = 0.16 dB

Location: 19.2, 9.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT WiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5610 MHz;Duty Cycle: 1:1

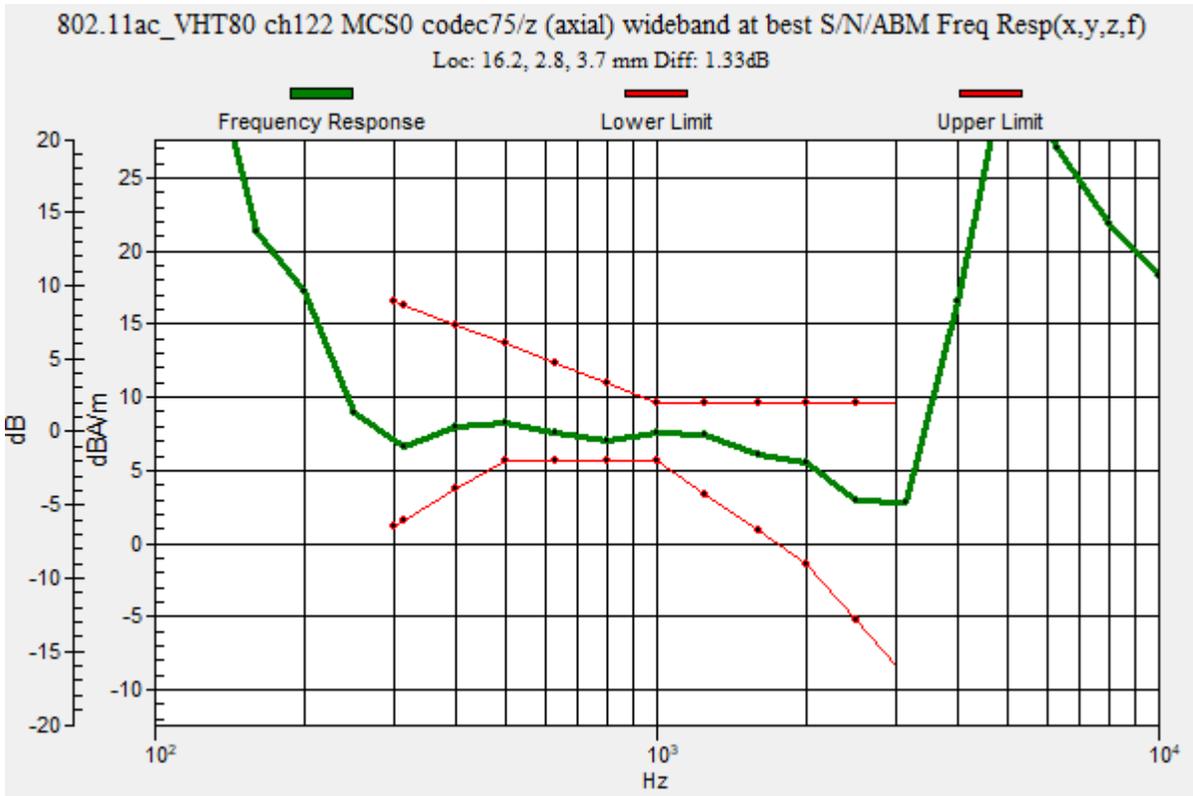
T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT WiFi Ant 1/802.11ac_VHT80 ch122 MCS0 codec75/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1):

Measurement grid: dx=10mm, dy=10mm
 Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav
 Output Gain: 39.17
 Measure Window Start: 300ms
 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: 16.2, 2.8, 3.7 mm



OTT WiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5610 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT WiFi Ant 1/802.11ac_VHT80 ch122 MCS0 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

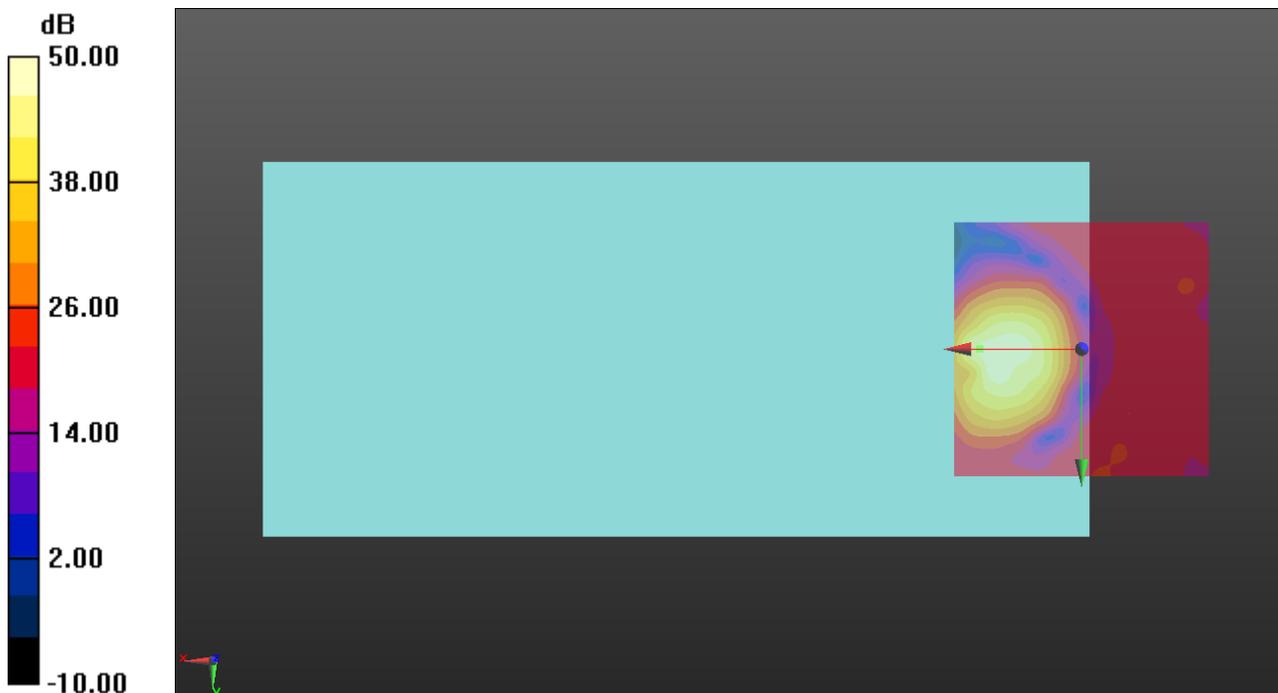
ABM1/ABM2 = 46.73 dB

ABM1 comp = 8.71 dBA/m

ABM2 = -38.02 dBA/m

BWC Factor = 0.16 dB

Location: 20, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT WiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5610 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/OTT WiFi Ant 1/802.11ac_VHT80 ch122 MCS0 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

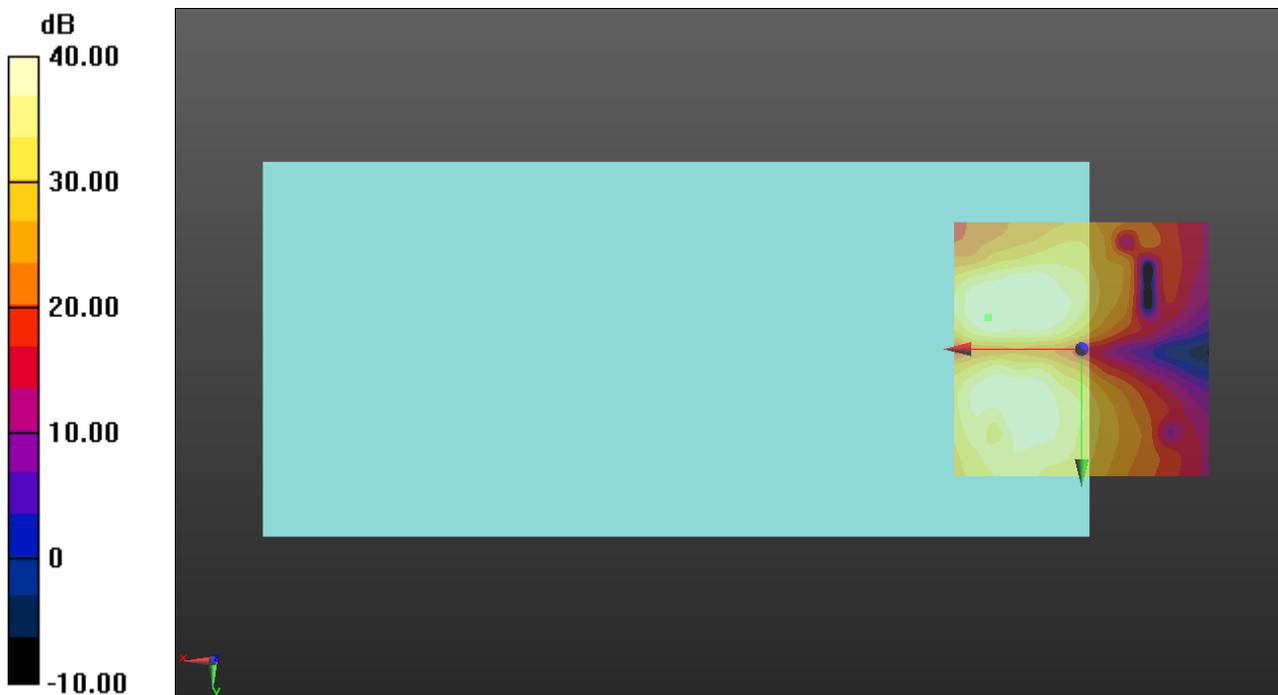
ABM1/ABM2 = 39.50 dB

ABM1 comp = 0.54 dBA/m

ABM2 = -38.96 dBA/m

BWC Factor = 0.16 dB

Location: 18.3, -6.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT WiFi

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

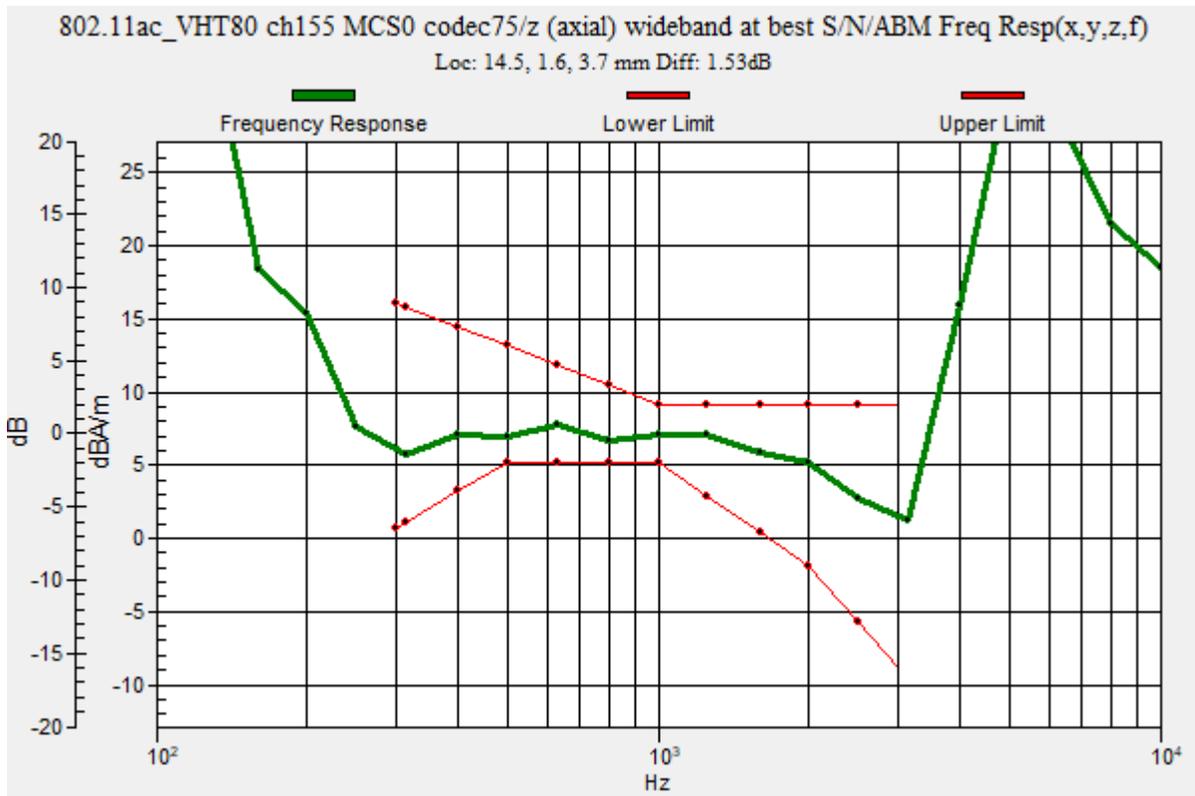
T-Coil scan (scan for ANSI C63.19 2011 compliance)/WiFi Ant 1/802.11ac_VHT80 ch155 MCS0 codec75/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement

grid: dx=10mm, dy=10mm
 Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav
 Output Gain: 39.17
 Measure Window Start: 300ms
 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: 14.5, 1.6, 3.7 mm



OTT WiFi

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 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WiFi Ant 1/802.11ac_VHT80 ch155 MCS0 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

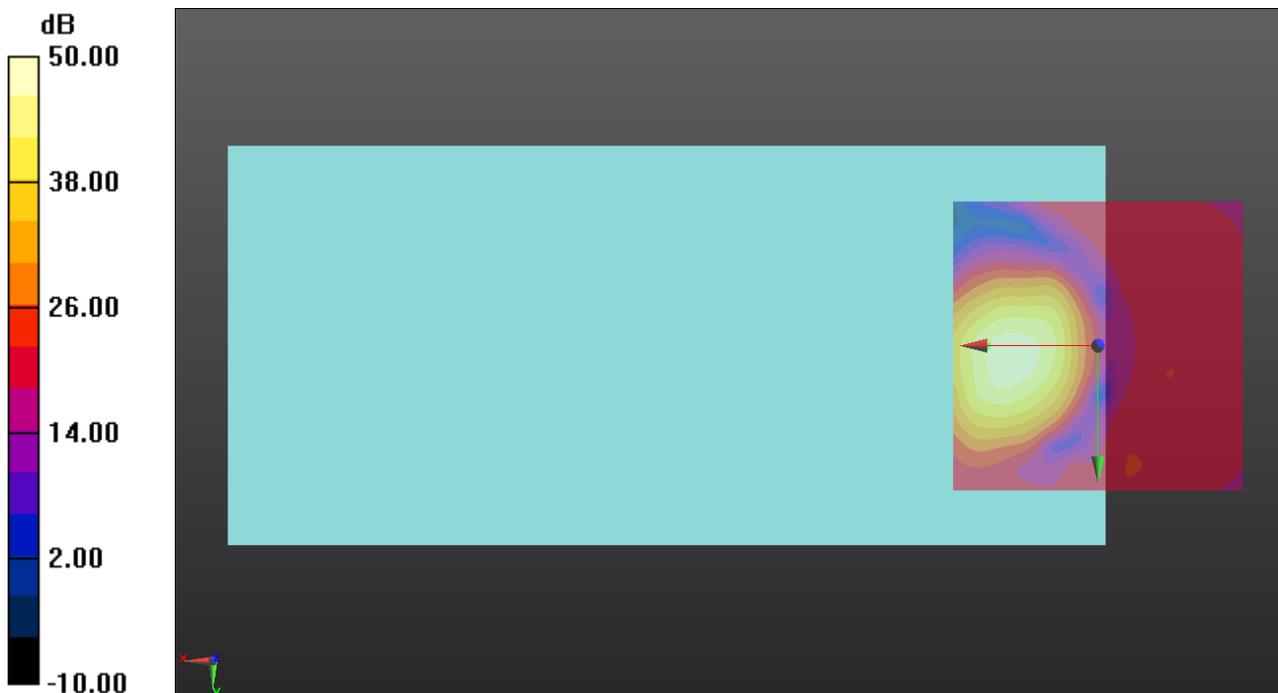
ABM1/ABM2 = 45.71 dB

ABM1 comp = 8.87 dBA/m

ABM2 = -36.84 dBA/m

BWC Factor = 0.16 dB

Location: 19.2, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT WiFi

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 - 3140; ; Calibrated: 2019-09-16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2019-03-21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WiFi Ant 1/802.11ac_VHT80 ch155 MCS0 codec75/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: 19.98

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

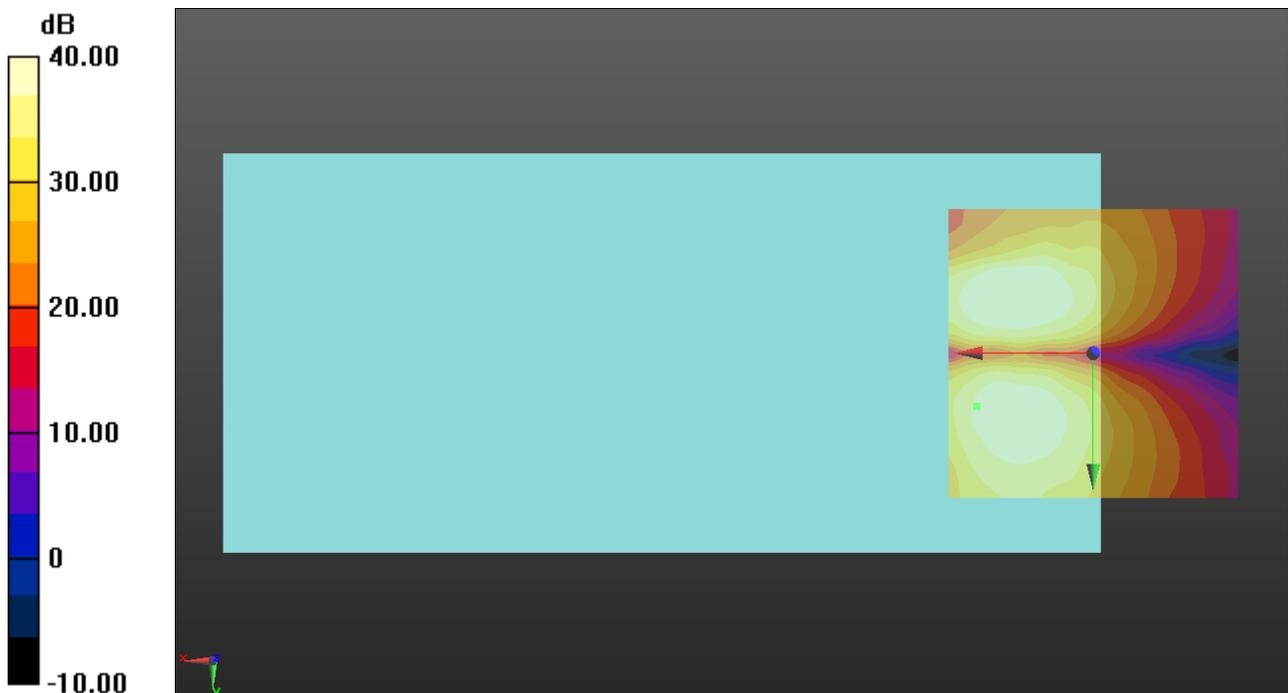
ABM1/ABM2 = 37.48 dB

ABM1 comp = 0.79 dBA/m

ABM2 = -36.69 dBA/m

BWC Factor = 0.16 dB

Location: 20, 9.2, 3.7 mm



0 dB = 1.000 = 0.00 dB