HAC-RF Emission

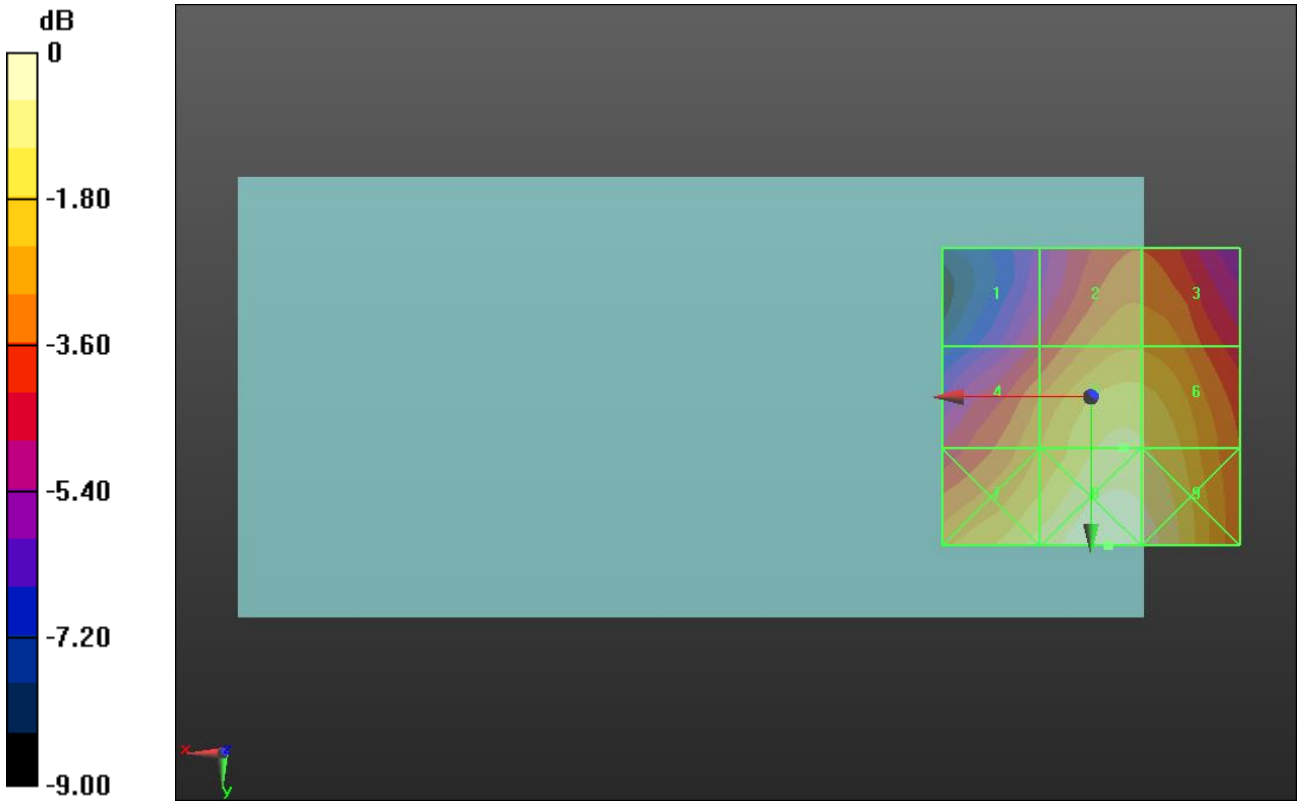
Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: EF3DV3 - SN4041; ConvF(1, 1, 1); Calibrated: 3/14/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1343; Calibrated: 8/21/2017
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

GSM850 E-Field measurement/Voice_ch 128/Hearing Aid Compatibility Test (101x101x1):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 29.92 V/m; Power Drift = -0.08 dB
Applied MIF = 3.63 dB
RF audio interference level = 31.13 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **27.79 dBV/m**	Grid 2 **M4** **29.72 dBV/m**	Grid 3 **M4** **29.69 dBV/m**
Grid 4 **M4** **29.78 dBV/m**	Grid 5 **M4** **31.13 dBV/m**	Grid 6 **M4** **31.05 dBV/m**
Grid 7 **M4** **31.28 dBV/m**	Grid 8 **M4** **32.16 dBV/m**	Grid 9 **M4** **31.92 dBV/m**



0 dB = 40.56 V/m = 32.16 dBV/m

HAC-RF Emission

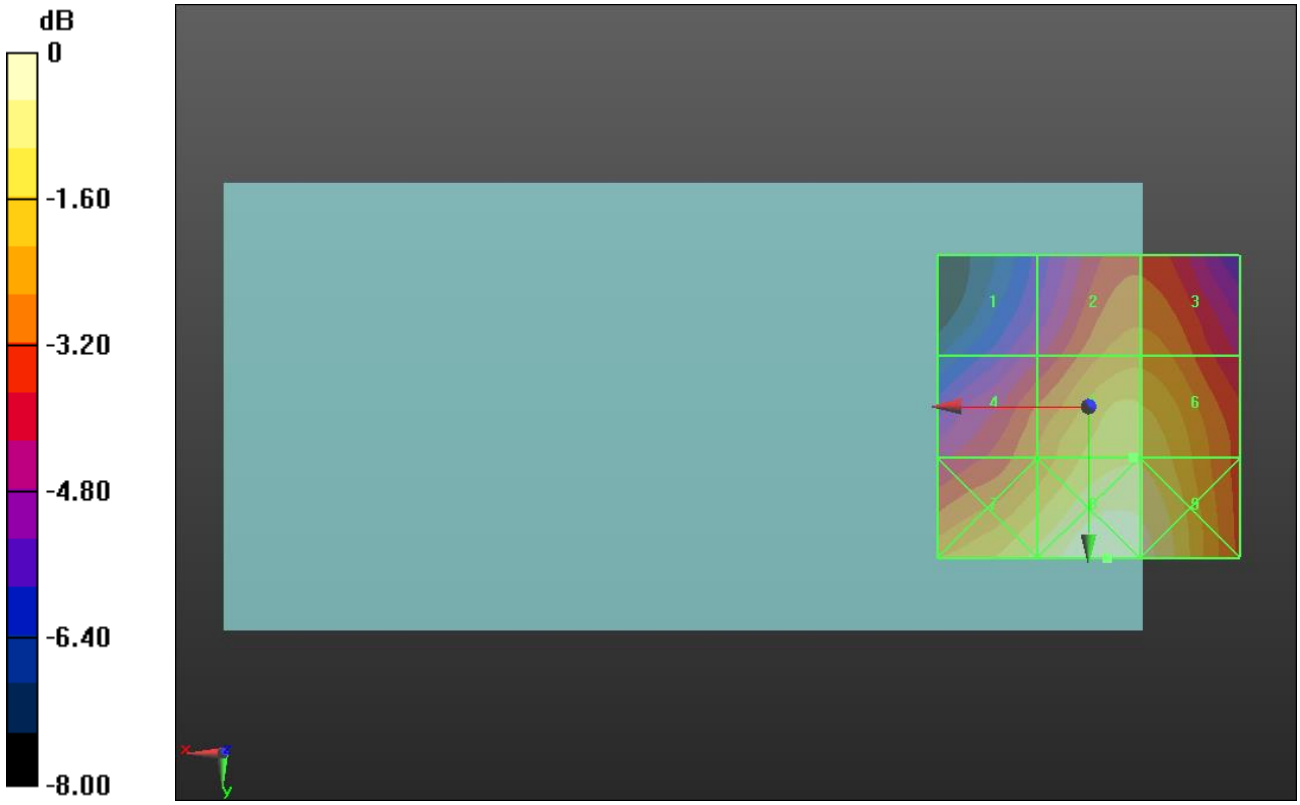
Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: EF3DV3 - SN4041; ConvF(1, 1, 1); Calibrated: 3/14/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1343; Calibrated: 8/21/2017
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

GSM850 E-Field measurement/Voice_ch 190/Hearing Aid Compatibility Test (101x101x1):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 33.69 V/m; Power Drift = -0.07 dB
Applied MIF = 3.63 dB
RF audio interference level = 31.89 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **28.58 dBV/m**	Grid 2 **M4** **30.69 dBV/m**	Grid 3 **M4** **30.69 dBV/m**
Grid 4 **M4** **30.43 dBV/m**	Grid 5 **M4** **31.89 dBV/m**	Grid 6 **M4** **31.87 dBV/m**
Grid 7 **M4** **32.1 dBV/m**	Grid 8 **M4** **32.99 dBV/m**	Grid 9 **M4** **32.75 dBV/m**



0 dB = 44.63 V/m = 32.99 dBV/m

HAC-RF Emission

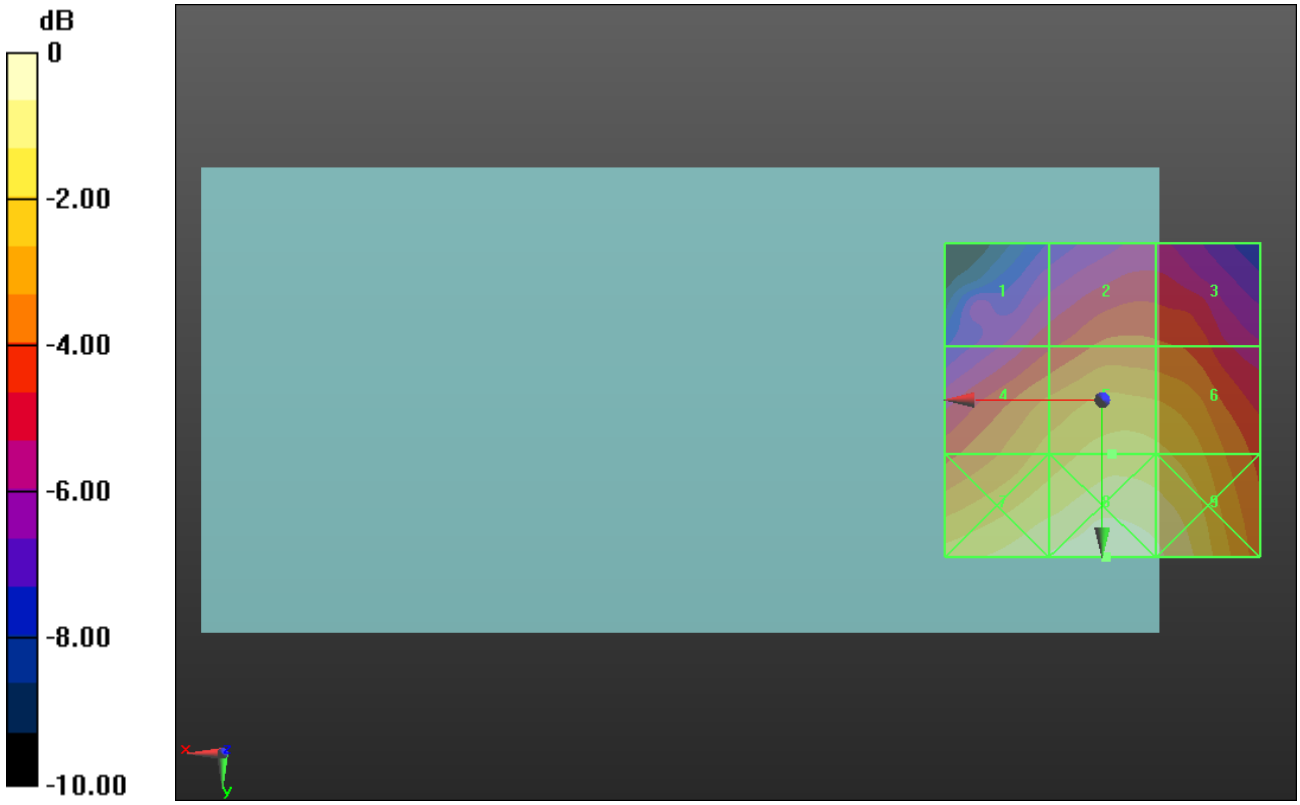
Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 848.6 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: EF3DV3 - SN4041; ConvF(1, 1, 1); Calibrated: 3/14/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1343; Calibrated: 8/21/2017
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

GSM850 E-Field measurement/Voice_ch 251/Hearing Aid Compatibility Test (101x101x1):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 30.17 V/m; Power Drift = -0.00 dB
Applied MIF = 3.63 dB
RF audio interference level = 31.40 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **28.29 dBV/m**	Grid 2 **M4** **29.29 dBV/m**	Grid 3 **M4** **29.2 dBV/m**
Grid 4 **M4** **30.65 dBV/m**	Grid 5 **M4** **31.4 dBV/m**	Grid 6 **M4** **31.22 dBV/m**
Grid 7 **M4** **32.47 dBV/m**	Grid 8 **M4** **33.04 dBV/m**	Grid 9 **M4** **32.57 dBV/m**



0 dB = 44.88 V/m = 33.04 dBV/m

HAC-RF Emission

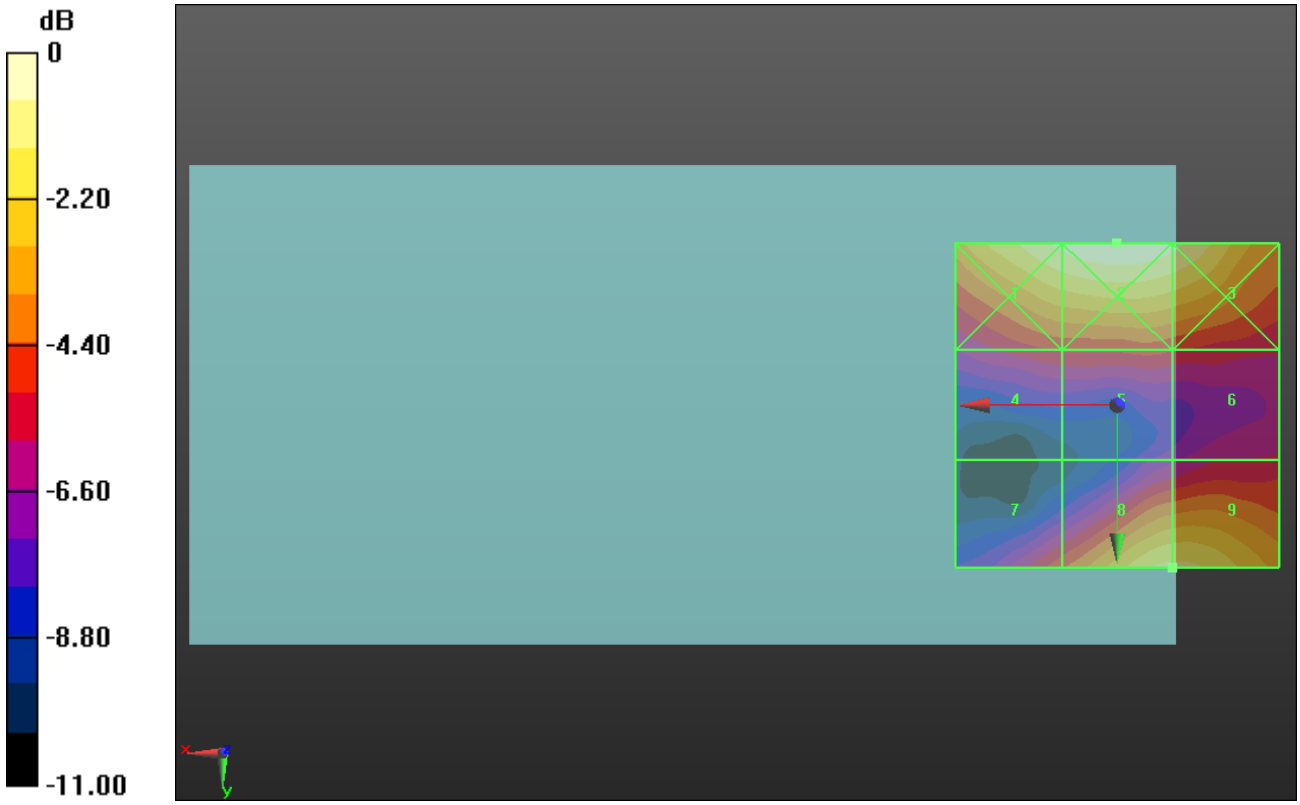
Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 1850.2 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: EF3DV3 - SN4041; ConvF(1, 1, 1); Calibrated: 3/14/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1343; Calibrated: 8/21/2017
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

GSM1900 E-Field measurement/Voice_ch 512/Hearing Aid Compatibility Test (101x101x1):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 8.504 V/m; Power Drift = -0.13 dB
Applied MIF = 3.63 dB
RF audio interference level = 26.15 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **26.91 dBV/m**	Grid 2 **M4** **27.42 dBV/m**	Grid 3 **M4** **26.96 dBV/m**
Grid 4 **M4** **22.39 dBV/m**	Grid 5 **M4** **22.6 dBV/m**	Grid 6 **M4** **22.37 dBV/m**
Grid 7 **M4** **22.93 dBV/m**	Grid 8 **M4** **26.15 dBV/m**	Grid 9 **M4** **26.15 dBV/m**



0 dB = 23.49 V/m = 27.42 dBV/m

HAC-RF Emission

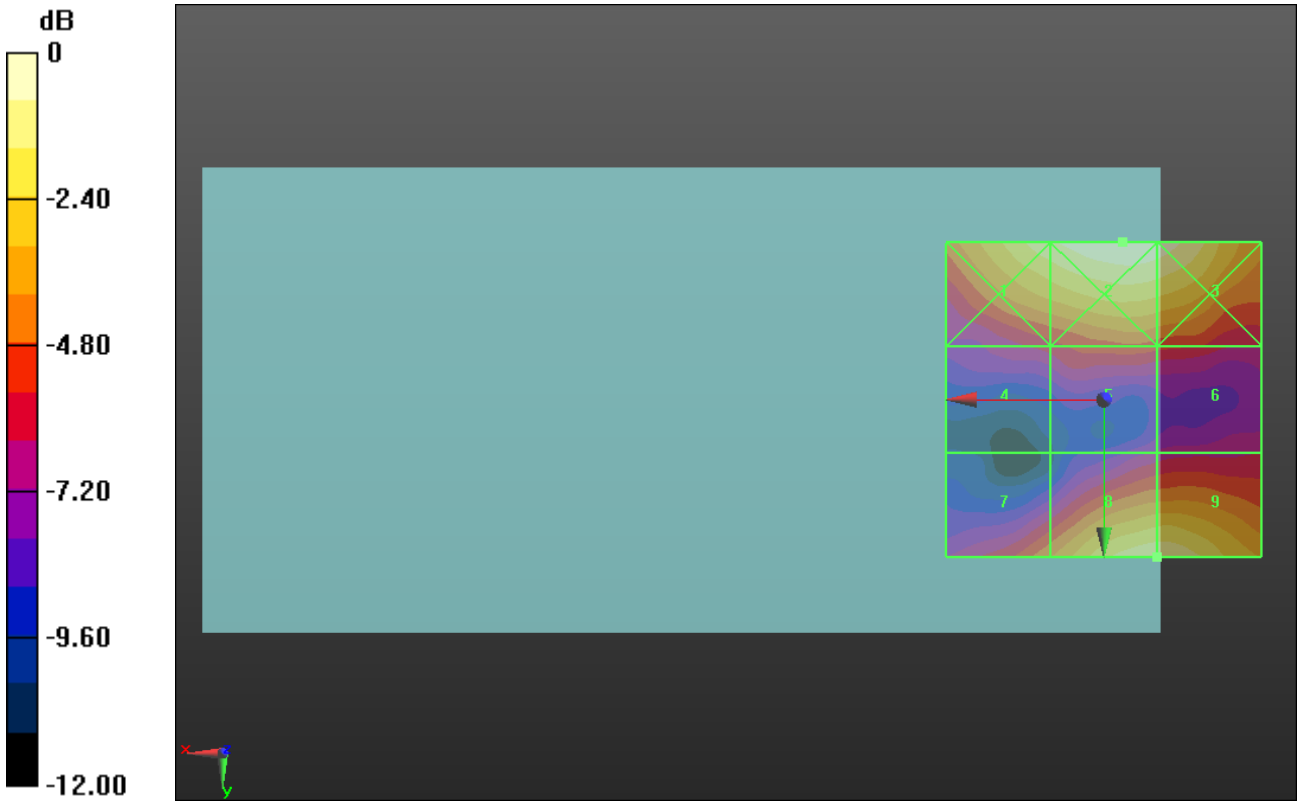
Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: EF3DV3 - SN4041; ConvF(1, 1, 1); Calibrated: 3/14/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1343; Calibrated: 8/21/2017
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

GSM1900 E-Field measurement/Voice_ch 661/Hearing Aid Compatibility Test (101x101x1):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 7.502 V/m; Power Drift = 0.03 dB
Applied MIF = 3.63 dB
RF audio interference level = 25.85 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **25.91 dBV/m**	Grid 2 **M4** **26.8 dBV/m**	Grid 3 **M4** **26.51 dBV/m**
Grid 4 **M4** **20.86 dBV/m**	Grid 5 **M4** **21.86 dBV/m**	Grid 6 **M4** **21.54 dBV/m**
Grid 7 **M4** **22.79 dBV/m**	Grid 8 **M4** **25.85 dBV/m**	Grid 9 **M4** **25.85 dBV/m**



0 dB = 21.88 V/m = 26.80 dBV/m

HAC-RF Emission

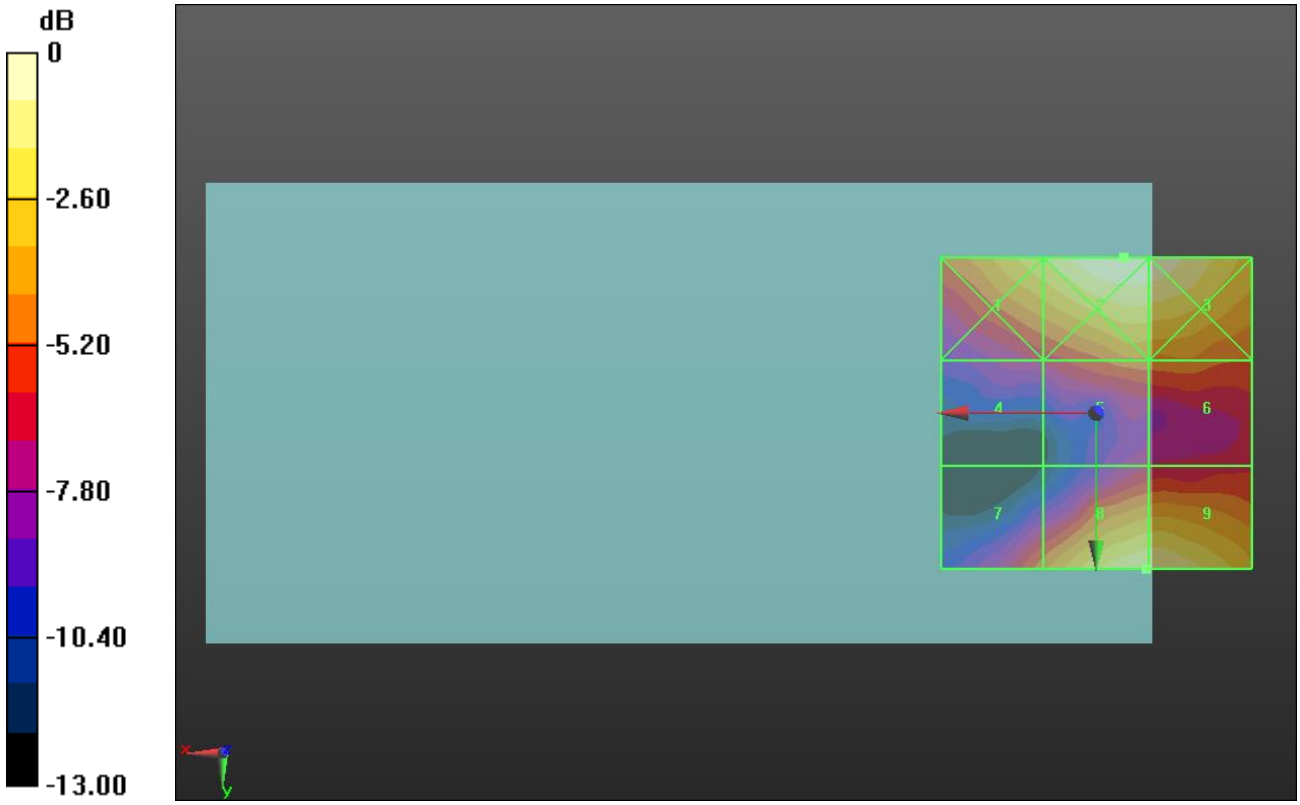
Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 1909.8 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: EF3DV3 - SN4041; ConvF(1, 1, 1); Calibrated: 3/14/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1343; Calibrated: 8/21/2017
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

GSM1900 E-Field measurement/Voice_ch 810/Hearing Aid Compatibility Test (101x101x1):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 7.804 V/m; Power Drift = -0.35 dB
Applied MIF = 3.63 dB
RF audio interference level = 26.04 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **25.2 dBV/m**	Grid 2 **M4** **26.87 dBV/m**	Grid 3 **M4** **26.72 dBV/m**
Grid 4 **M4** **20.15 dBV/m**	Grid 5 **M4** **22.35 dBV/m**	Grid 6 **M4** **22.42 dBV/m**
Grid 7 **M4** **22.33 dBV/m**	Grid 8 **M4** **26.04 dBV/m**	Grid 9 **M4** **26.03 dBV/m**



0 dB = 22.05 V/m = 26.87 dBV/m

HAC-RF Emission

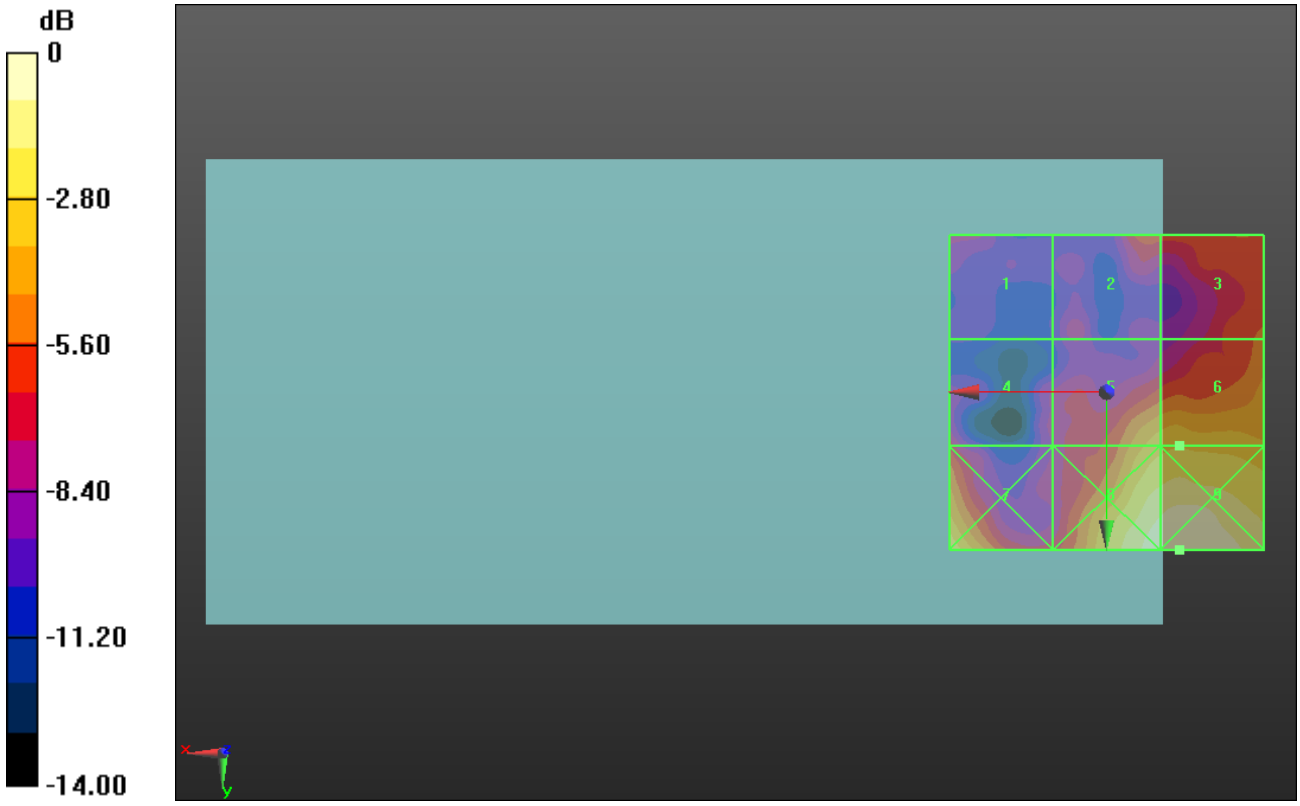
Communication System: UID 10173 - CAC, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2506 MHz; Duty Cycle: 1:8.87156
Phantom section: RF Section
DASY5 Configuration:
- Probe: EF3DV3 - SN4041; ConvF(1, 1, 1); Calibrated: 3/14/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1343; Calibrated: 8/21/2017
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

LTE Band 41 E-Field measurement/16QAM_RB 1/50_ch 39750/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 4.352 V/m; Power Drift = -0.90 dB
Applied MIF = -1.44 dB
RF audio interference level = 14.27 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **9.08 dBV/m**	Grid 2 **M4** **11.4 dBV/m**	Grid 3 **M4** **11.8 dBV/m**
Grid 4 **M4** **10.47 dBV/m**	Grid 5 **M4** **14 dBV/m**	Grid 6 **M4** **14.27 dBV/m**
Grid 7 **M4** **15.39 dBV/m**	Grid 8 **M4** **16.85 dBV/m**	Grid 9 **M4** **17.12 dBV/m**



0 dB = 7.180 V/m = 17.12 dBV/m

HAC-RF Emission

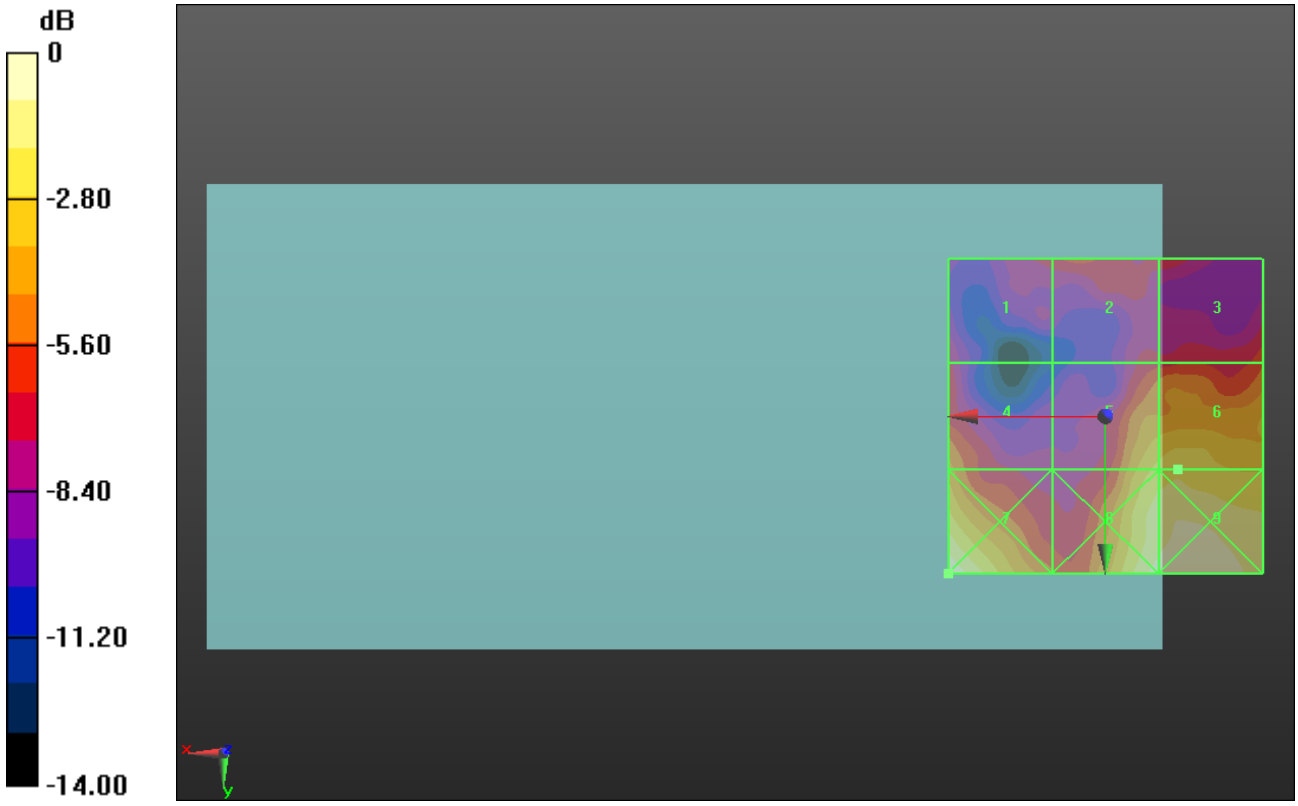
Communication System: UID 10173 - CAC, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2549.5 MHz; Duty Cycle: 1:8.87156
Phantom section: RF Section
DASY5 Configuration:
- Probe: EF3DV3 - SN4041; ConvF(1, 1, 1); Calibrated: 3/14/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1343; Calibrated: 8/21/2017
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

LTE Band 41 E-Field measurement/16QAM_RB 1/50_ch 40185/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 6.062 V/m; Power Drift = -0.29 dB
Applied MIF = -1.44 dB
RF audio interference level = 14.94 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **10.21 dBV/m**	Grid 2 **M4** **10.9 dBV/m**	Grid 3 **M4** **11.31 dBV/m**
Grid 4 **M4** **12.98 dBV/m**	Grid 5 **M4** **14.57 dBV/m**	Grid 6 **M4** **14.94 dBV/m**
Grid 7 **M4** **17.07 dBV/m**	Grid 8 **M4** **16.64 dBV/m**	Grid 9 **M4** **17.02 dBV/m**



0 dB = 7.133 V/m = 17.07 dBV/m

HAC-RF Emission

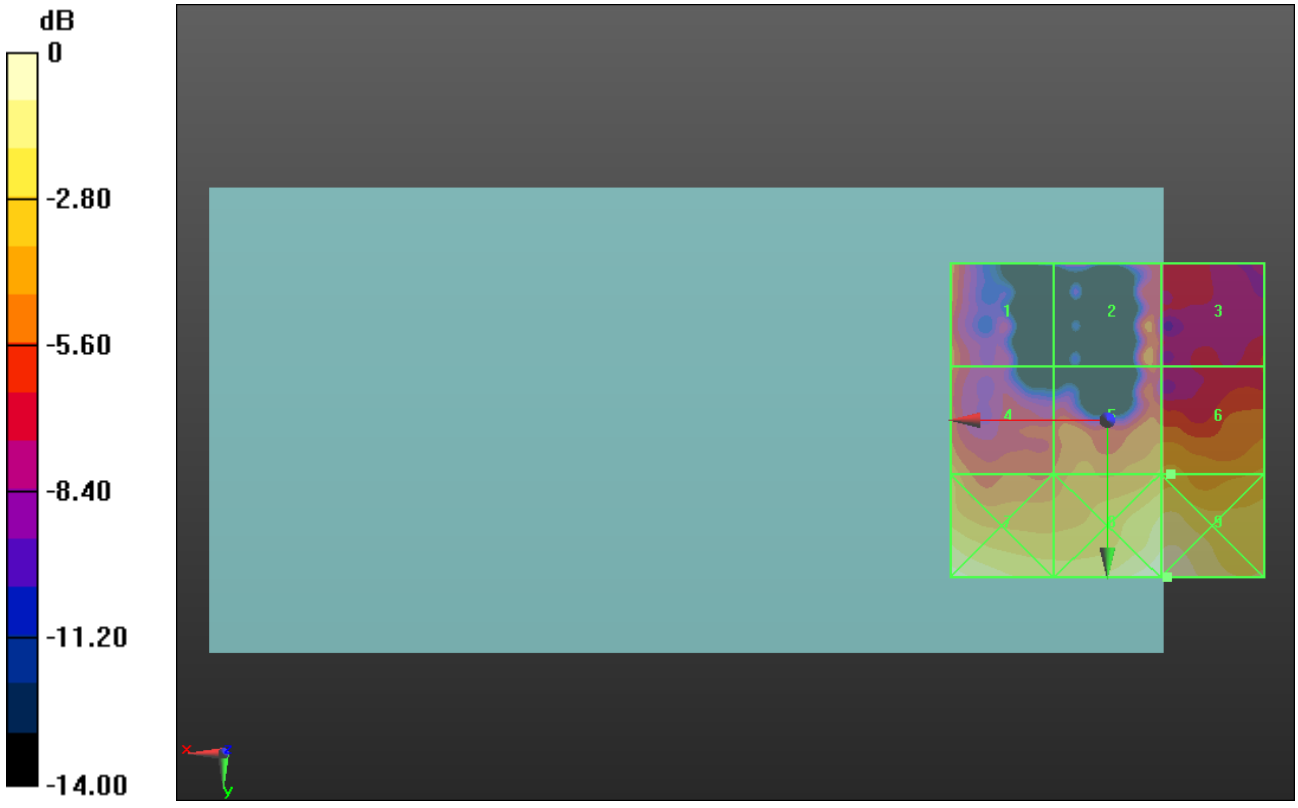
Communication System: UID 10173 - CAC, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2593 MHz; Duty Cycle: 1:8.87156
Phantom section: RF Section
DASY5 Configuration:
- Probe: EF3DV3 - SN4041; ConvF(1, 1, 1); Calibrated: 3/14/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1343; Calibrated: 8/21/2017
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

LTE Band 41 E-Field measurement/16QAM_RB 1/50_ch 40620/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 6.176 V/m; Power Drift = -0.36 dB
Applied MIF = -1.44 dB
RF audio interference level = 12.50 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **11.14 dBV/m**	Grid 2 **M4** **11.2 dBV/m**	Grid 3 **M4** **9.57 dBV/m**
Grid 4 **M4** **12.16 dBV/m**	Grid 5 **M4** **12.35 dBV/m**	Grid 6 **M4** **12.5 dBV/m**
Grid 7 **M4** **15.5 dBV/m**	Grid 8 **M4** **15.83 dBV/m**	Grid 9 **M4** **15.87 dBV/m**



0 dB = 6.214 V/m = 15.87 dBV/m

HAC-RF Emission

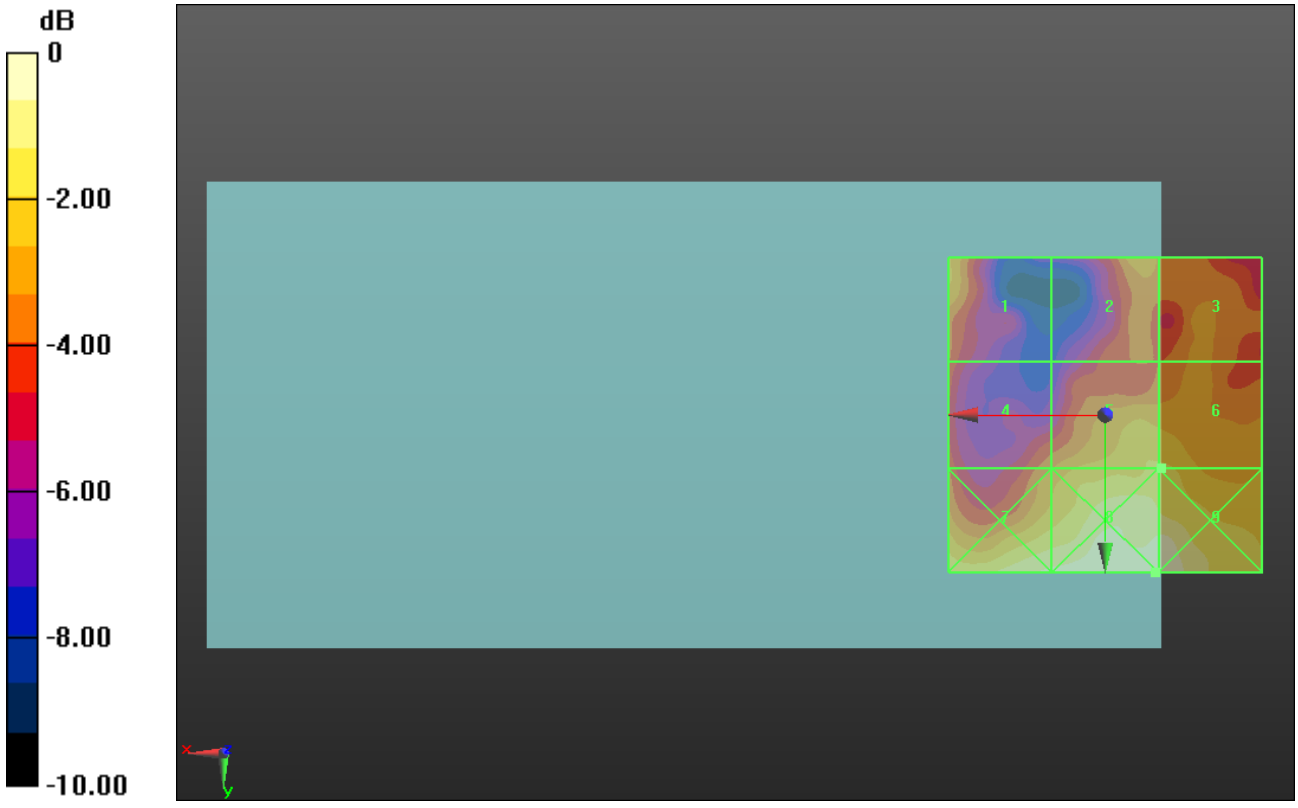
Communication System: UID 10173 - CAC, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2636.5 MHz; Duty Cycle: 1:8.87156
Phantom section: RF Section
DASY5 Configuration:
- Probe: EF3DV3 - SN4041; ConvF(1, 1, 1); Calibrated: 3/14/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1343; Calibrated: 8/21/2017
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

LTE Band 41 E-Field measurement/16QAM_RB 1/50_ch 41055/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 7.171 V/m; Power Drift = -0.53 dB
Applied MIF = -1.44 dB
RF audio interference level = 14.30 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **13.74 dBV/m**	Grid 2 **M4** **13.46 dBV/m**	Grid 3 **M4** **13.13 dBV/m**
Grid 4 **M4** **12.83 dBV/m**	Grid 5 **M4** **14.3 dBV/m**	Grid 6 **M4** **14.3 dBV/m**
Grid 7 **M4** **15.66 dBV/m**	Grid 8 **M4** **16.15 dBV/m**	Grid 9 **M4** **16.15 dBV/m**



0 dB = 6.417 V/m = 16.15 dBV/m

HAC-RF Emission

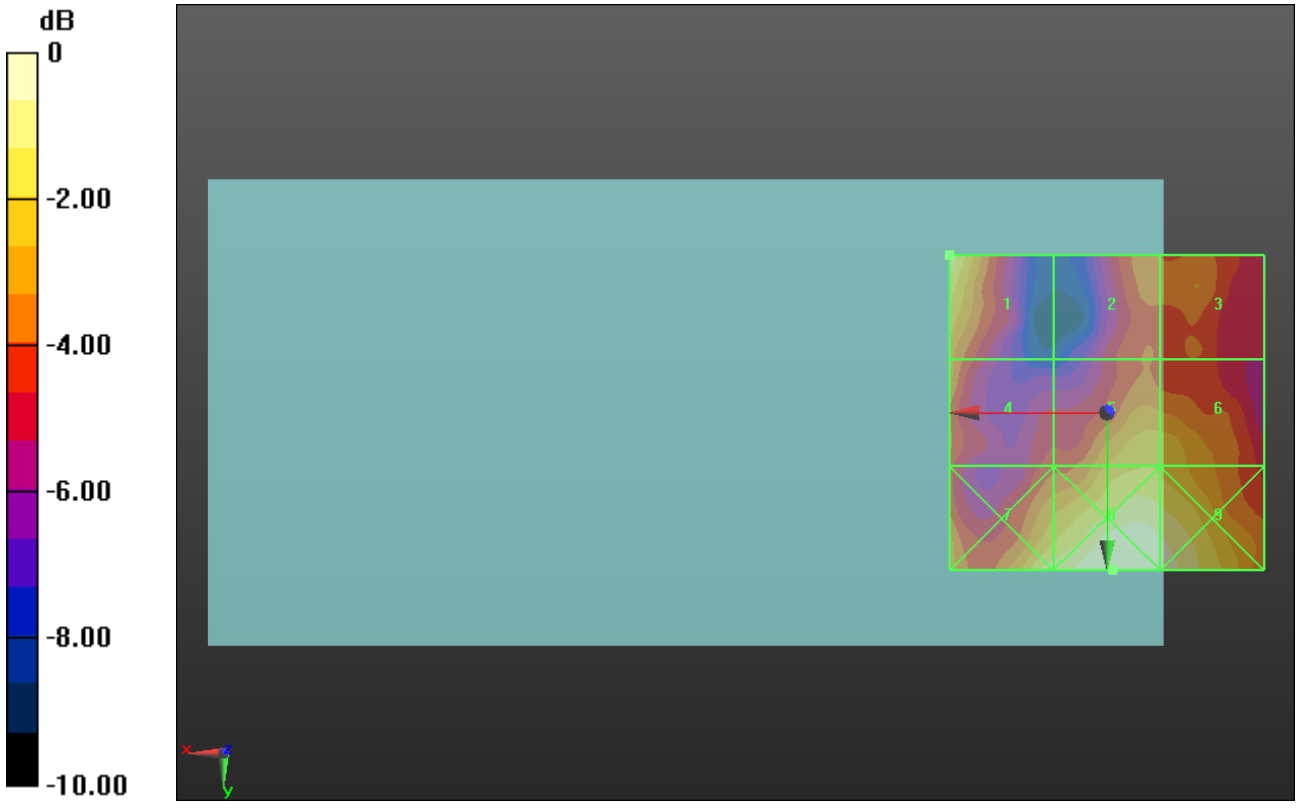
Communication System: UID 10173 - CAC, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2680 MHz; Duty Cycle: 1:8.87156
Phantom section: RF Section
DASY5 Configuration:
- Probe: EF3DV3 - SN4041; ConvF(1, 1, 1); Calibrated: 3/14/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1343; Calibrated: 8/21/2017
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

LTE Band 41 E-Field measurement/16QAM_RB 1/50_ch 41490/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 6.520 V/m; Power Drift = -0.45 dB
Applied MIF = -1.44 dB
RF audio interference level = 16.04 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **16.04 dBV/m**	Grid 2 **M4** **13.29 dBV/m**	Grid 3 **M4** **13.59 dBV/m**
Grid 4 **M4** **13.93 dBV/m**	Grid 5 **M4** **14.91 dBV/m**	Grid 6 **M4** **14.79 dBV/m**
Grid 7 **M4** **16.16 dBV/m**	Grid 8 **M4** **16.9 dBV/m**	Grid 9 **M4** **16.6 dBV/m**



0 dB = 6.999 V/m = 16.90 dBV/m