

HAC-RF Emission

Communication System: UID 10021, GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz; Duty Cycle: 1:8.6896

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- 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 52.8 (7);SEMCAD X Version 14.6.10 (7164)

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 = 48.20 V/m; Power Drift = -0.04 dB

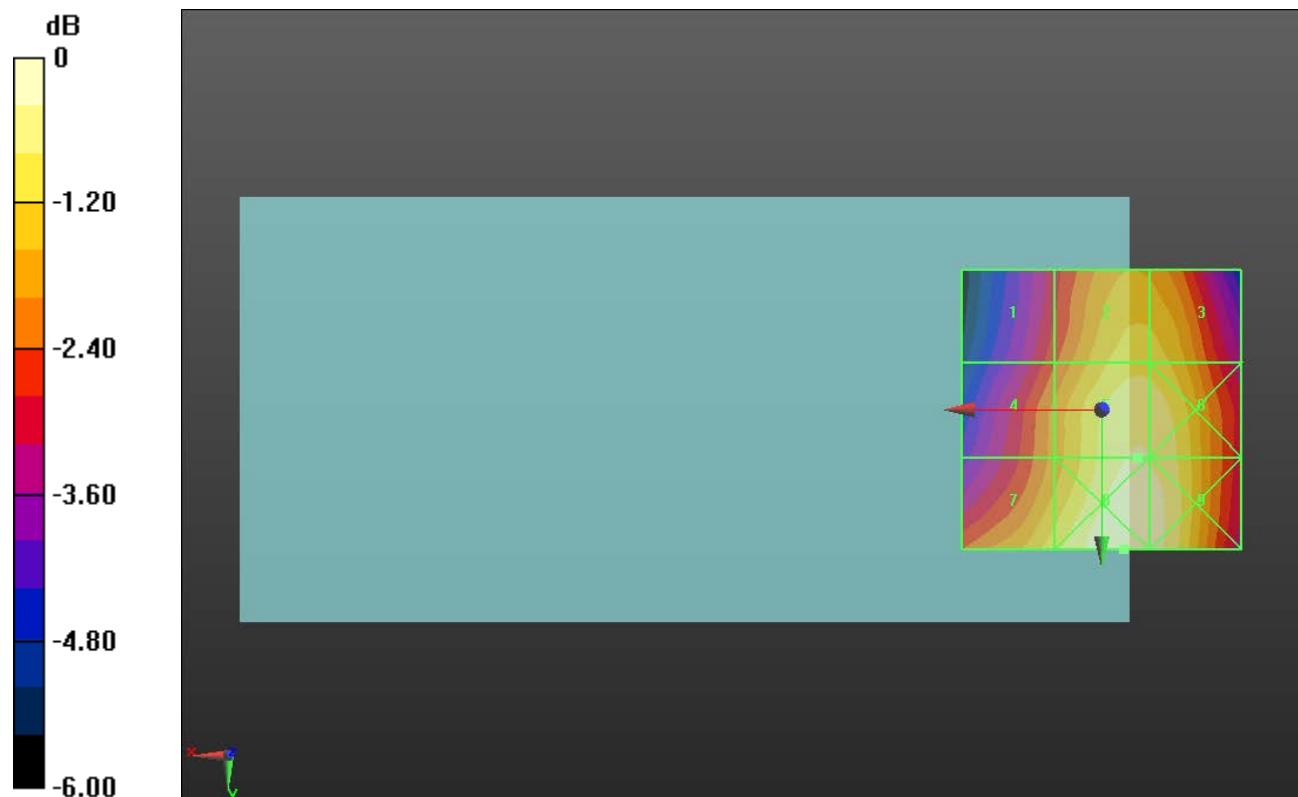
Applied MIF = 3.63 dB

RF audio interference level = 35.21 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 33.1 dBV/m	Grid 2 M4 34.64 dBV/m	Grid 3 M4 34.63 dBV/m
Grid 4 M4 33.75 dBV/m	Grid 5 M4 35.21 dBV/m	Grid 6 M4 35.17 dBV/m
Grid 7 M4 34.65 dBV/m	Grid 8 M4 35.58 dBV/m	Grid 9 M4 35.45 dBV/m



0 dB = 60.10 V/m = 35.58 dBV/m

HAC-RF Emission

Communication System: UID 10021, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- 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 52.8 (7);SEMCAD X Version 14.6.10 (7164)

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 = 48.09 V/m; Power Drift = -0.02 dB

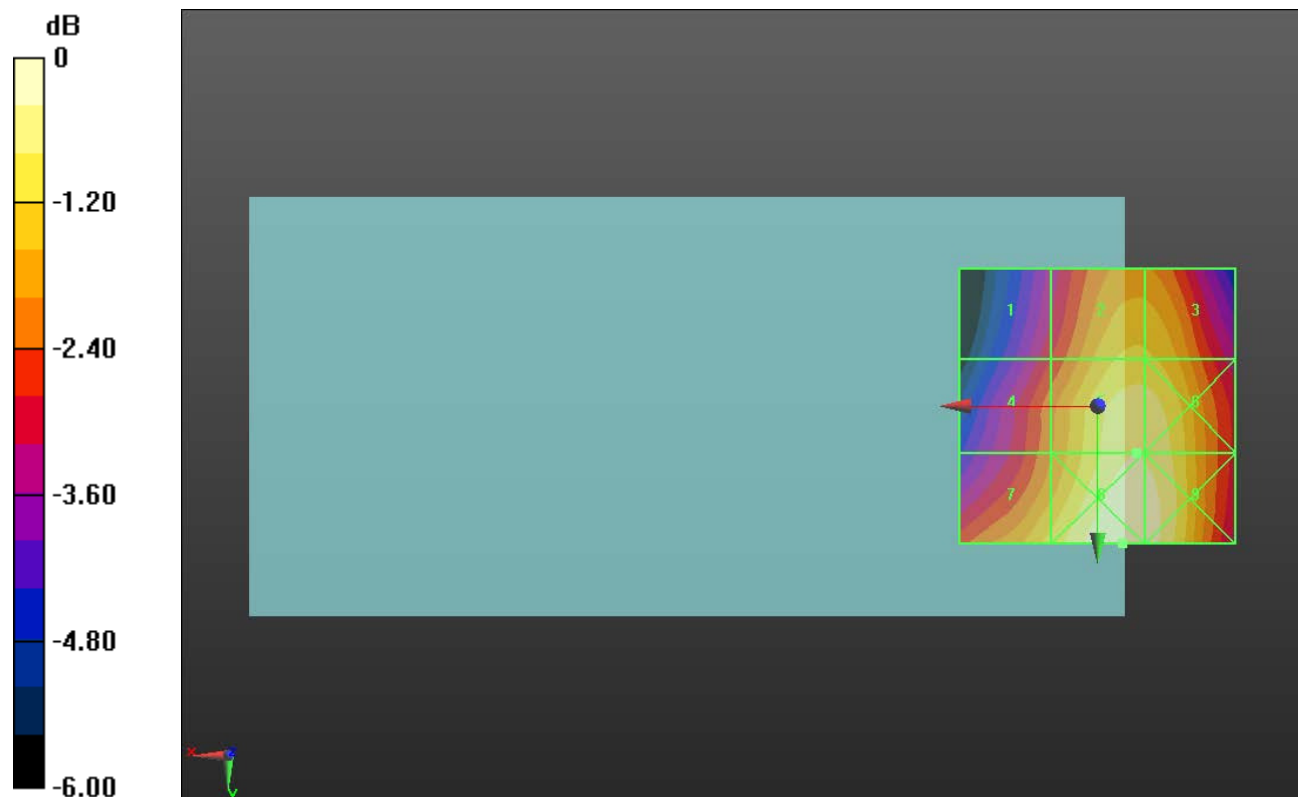
Applied MIF = 3.63 dB

RF audio interference level = 35.30 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 32.92 dBV/m	Grid 2 M4 34.64 dBV/m	Grid 3 M4 34.62 dBV/m
Grid 4 M4 33.68 dBV/m	Grid 5 M4 35.3 dBV/m	Grid 6 M4 35.27 dBV/m
Grid 7 M4 34.7 dBV/m	Grid 8 M4 35.71 dBV/m	Grid 9 M4 35.58 dBV/m



0 dB = 61.01 V/m = 35.71 dBV/m

HAC-RF Emission

Communication System: UID 10021, GSM-FDD (TDMA, GMSK); Frequency: 848.6 MHz; Duty Cycle: 1:8.6896

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- 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 52.8 (7);SEMCAD X Version 14.6.10 (7164)

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 = 43.83 V/m; Power Drift = 0.00 dB

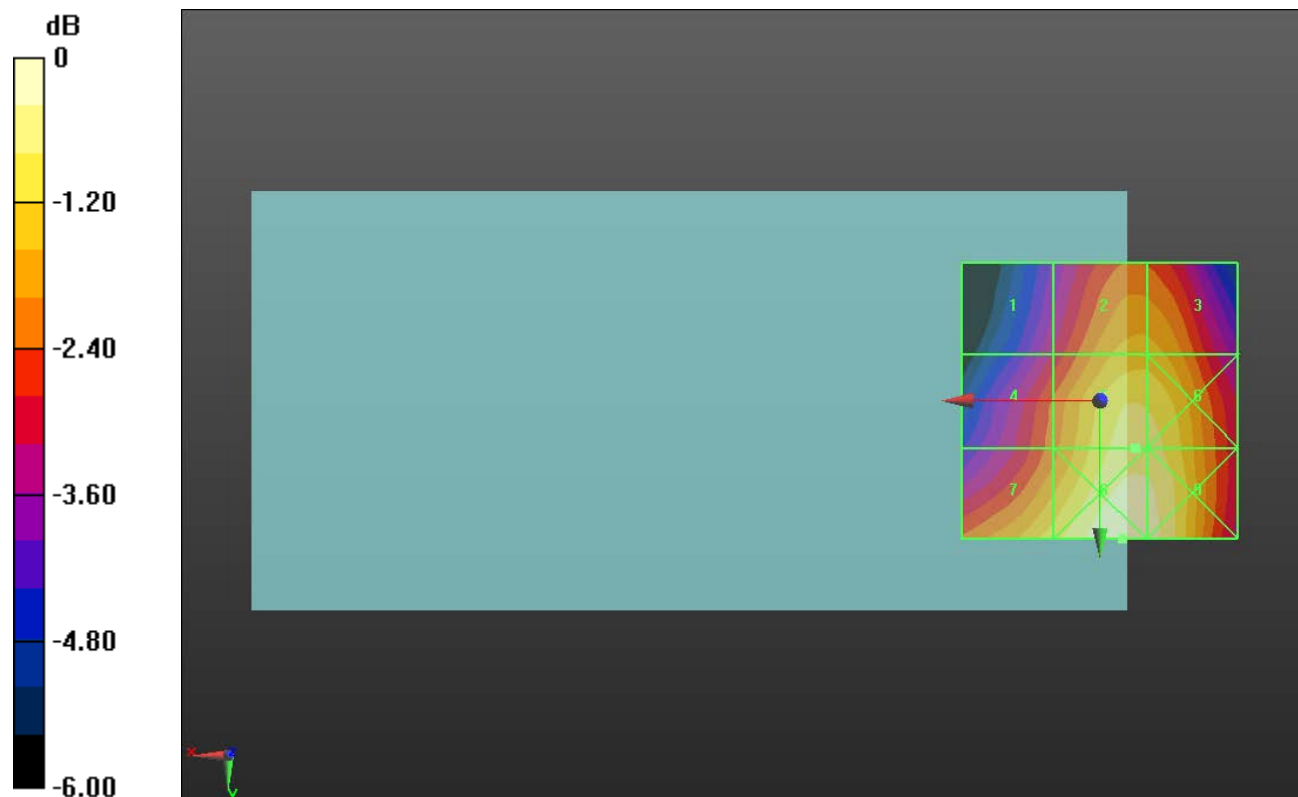
Applied MIF = 3.63 dB

RF audio interference level = 34.57 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 32.03 dBV/m	Grid 2 M4 33.77 dBV/m	Grid 3 M4 33.75 dBV/m
Grid 4 M4 33 dBV/m	Grid 5 M4 34.57 dBV/m	Grid 6 M4 34.54 dBV/m
Grid 7 M4 34.2 dBV/m	Grid 8 M4 35.15 dBV/m	Grid 9 M4 34.99 dBV/m



0 dB = 57.19 V/m = 35.15 dBV/m

HAC-RF Emission

Communication System: UID 10021, GSM-FDD (TDMA, GMSK); Frequency: 1850.2 MHz; Duty Cycle: 1:8.6896

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- 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 52.8 (7);SEMCAD X Version 14.6.10 (7164)

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 = 10.14 V/m; Power Drift = 0.10 dB

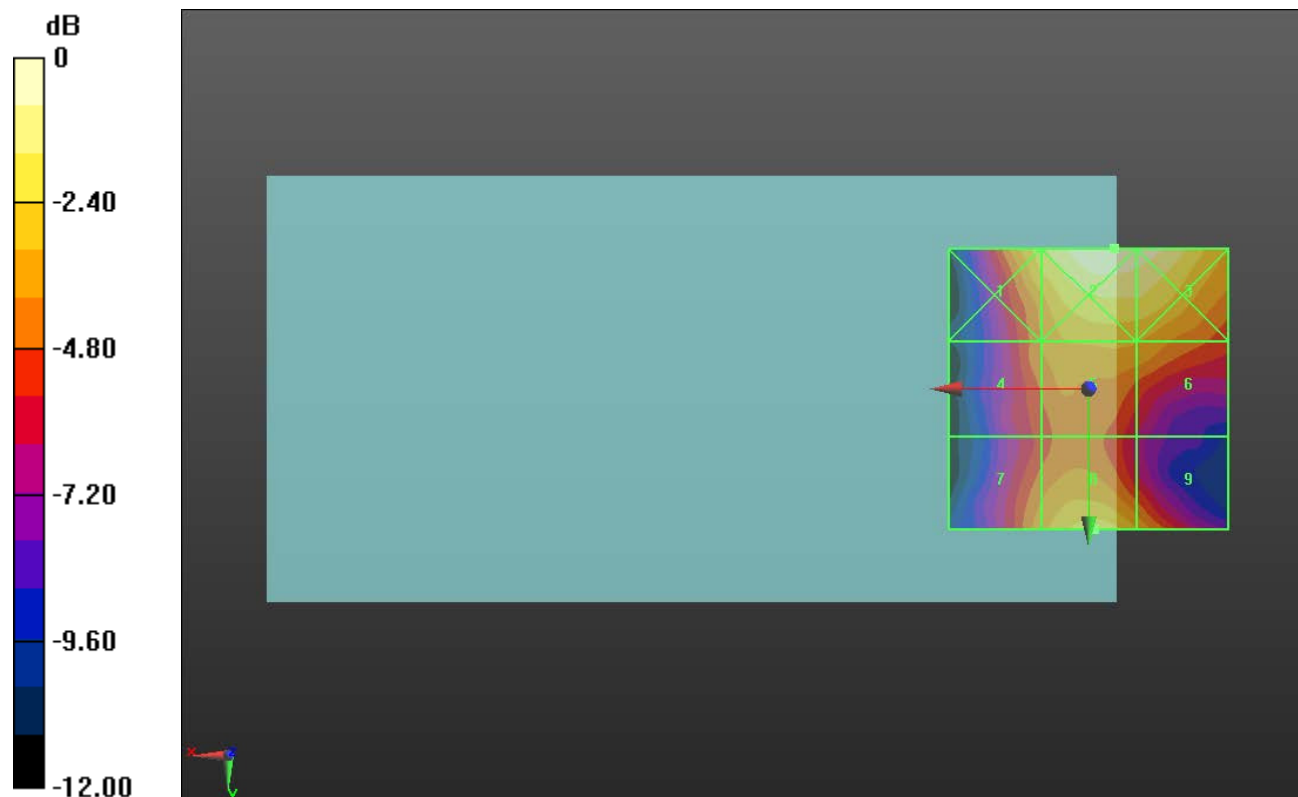
Applied MIF = 3.63 dB

RF audio interference level = 23.51 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 23.59 dBV/m	Grid 2 M4 25.38 dBV/m	Grid 3 M4 25.17 dBV/m
Grid 4 M4 21.34 dBV/m	Grid 5 M4 22.4 dBV/m	Grid 6 M4 22.26 dBV/m
Grid 7 M4 21.99 dBV/m	Grid 8 M4 23.51 dBV/m	Grid 9 M4 22.24 dBV/m



0 dB = 18.57 V/m = 25.38 dBV/m

HAC-RF Emission

Communication System: UID 10021, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- 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 52.8 (7);SEMCAD X Version 14.6.10 (7164)

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 = 11.70 V/m; Power Drift = 0.06 dB

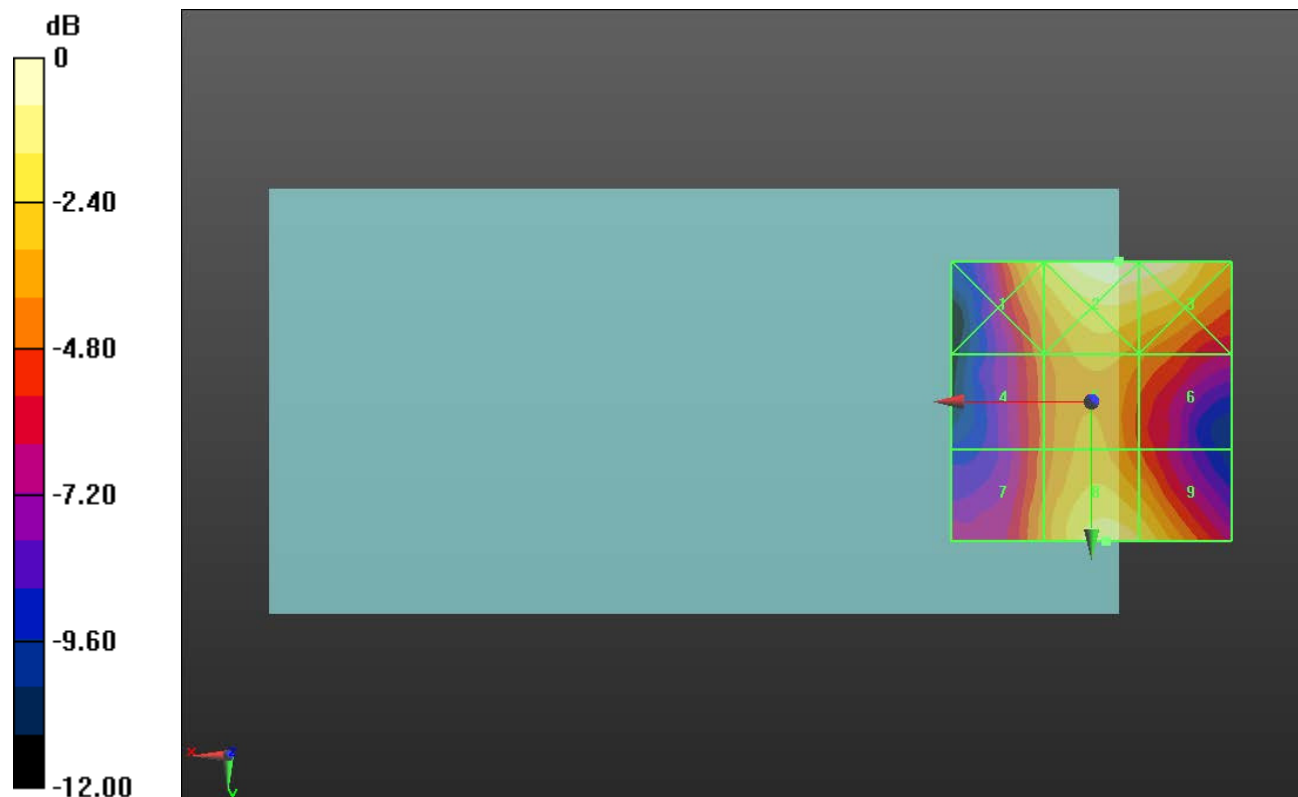
Applied MIF = 3.63 dB

RF audio interference level = 24.72 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 23.83 dBV/m	Grid 2 M4 25.61 dBV/m	Grid 3 M4 25.5 dBV/m
Grid 4 M4 21.45 dBV/m	Grid 5 M4 22.77 dBV/m	Grid 6 M4 21.88 dBV/m
Grid 7 M4 22.07 dBV/m	Grid 8 M4 24.72 dBV/m	Grid 9 M4 24.13 dBV/m



0 dB = 19.08 V/m = 25.61 dBV/m

HAC-RF Emission

Communication System: UID 10021, GSM-FDD (TDMA, GMSK); Frequency: 1909.8 MHz; Duty Cycle: 1:8.6896

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- 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 52.8 (7);SEMCAD X Version 14.6.10 (7164)

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 = 12.78 V/m; Power Drift = 0.04 dB

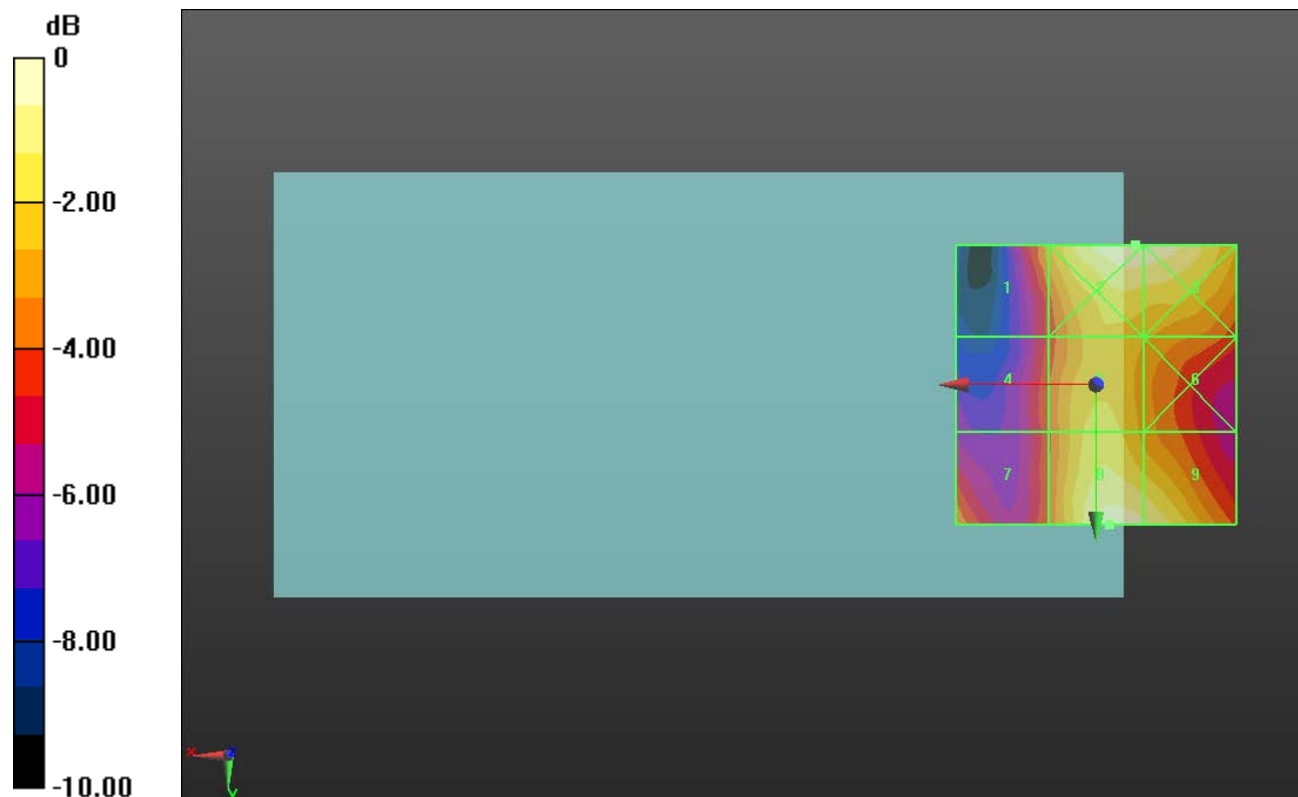
Applied MIF = 3.63 dB

RF audio interference level = 25.22 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 22.66 dBV/m	Grid 2 M4 25.48 dBV/m	Grid 3 M4 25.47 dBV/m
Grid 4 M4 21.51 dBV/m	Grid 5 M4 23.86 dBV/m	Grid 6 M4 22.97 dBV/m
Grid 7 M4 22.28 dBV/m	Grid 8 M4 25.22 dBV/m	Grid 9 M4 24.94 dBV/m



0 dB = 18.80 V/m = 25.48 dBV/m

HAC-RF Emission

Communication System: UID 10173, 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 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- 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 52.8 (7);SEMCAD X Version 14.6.10 (7164)

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 = 12.56 V/m; Power Drift = -0.18 dB

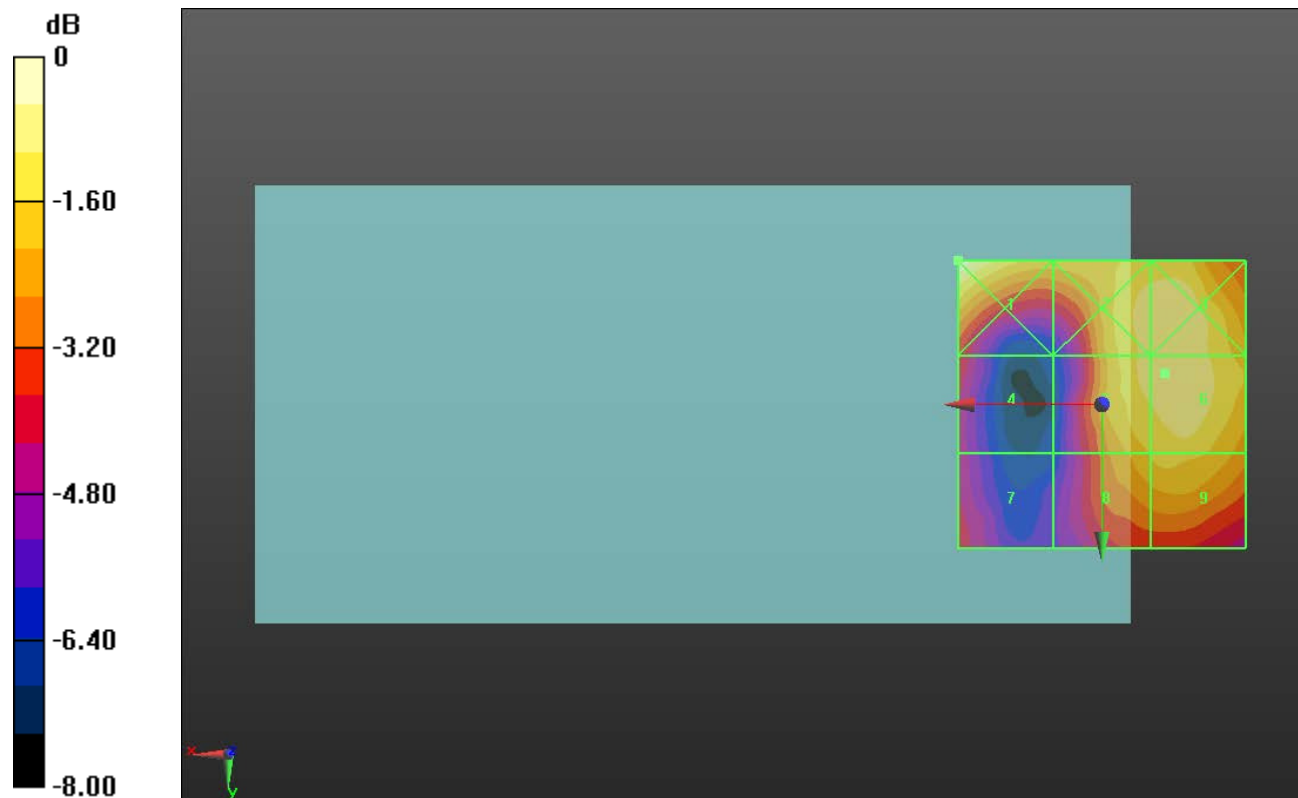
Applied MIF = -1.44 dB

RF audio interference level = 20.43 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 21.03 dBV/m	Grid 2 M4 20.27 dBV/m	Grid 3 M4 20.46 dBV/m
Grid 4 M4 17.45 dBV/m	Grid 5 M4 20.25 dBV/m	Grid 6 M4 20.43 dBV/m
Grid 7 M4 17.23 dBV/m	Grid 8 M4 19.49 dBV/m	Grid 9 M4 19.68 dBV/m



0 dB = 11.26 V/m = 21.03 dBV/m

HAC-RF Emission

Communication System: UID 10173, 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 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- 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 52.8 (7);SEMCAD X Version 14.6.10 (7164)

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 = 15.05 V/m; Power Drift = -0.09 dB

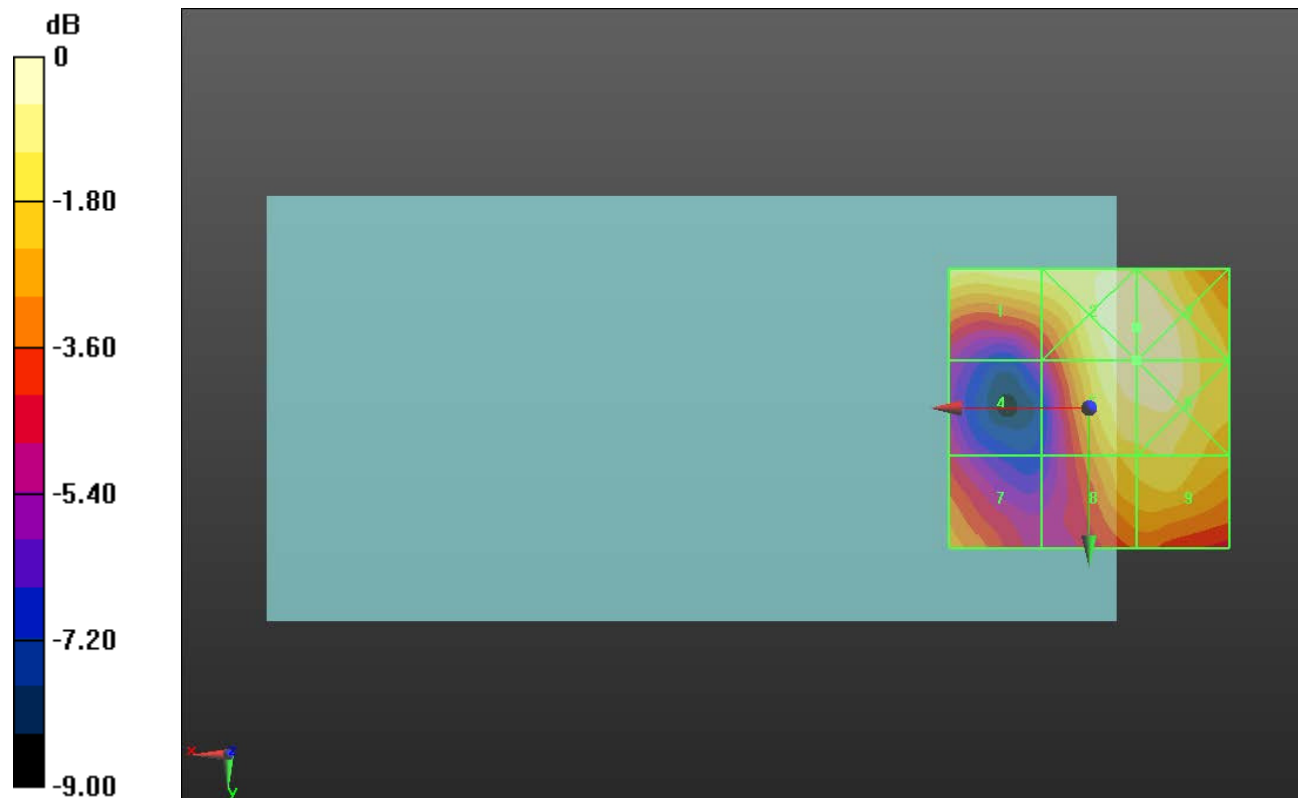
Applied MIF = -1.44 dB

RF audio interference level = 21.87 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 21.42 dBV/m	Grid 2 M4 22.03 dBV/m	Grid 3 M4 22.03 dBV/m
Grid 4 M4 17.53 dBV/m	Grid 5 M4 21.87 dBV/m	Grid 6 M4 21.9 dBV/m
Grid 7 M4 19.29 dBV/m	Grid 8 M4 20.6 dBV/m	Grid 9 M4 20.86 dBV/m



0 dB = 12.64 V/m = 22.03 dBV/m

HAC-RF Emission

Communication System: UID 10173, 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 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- 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 52.8 (7);SEMCAD X Version 14.6.10 (7164)

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 = 15.36 V/m; Power Drift = 0.43 dB

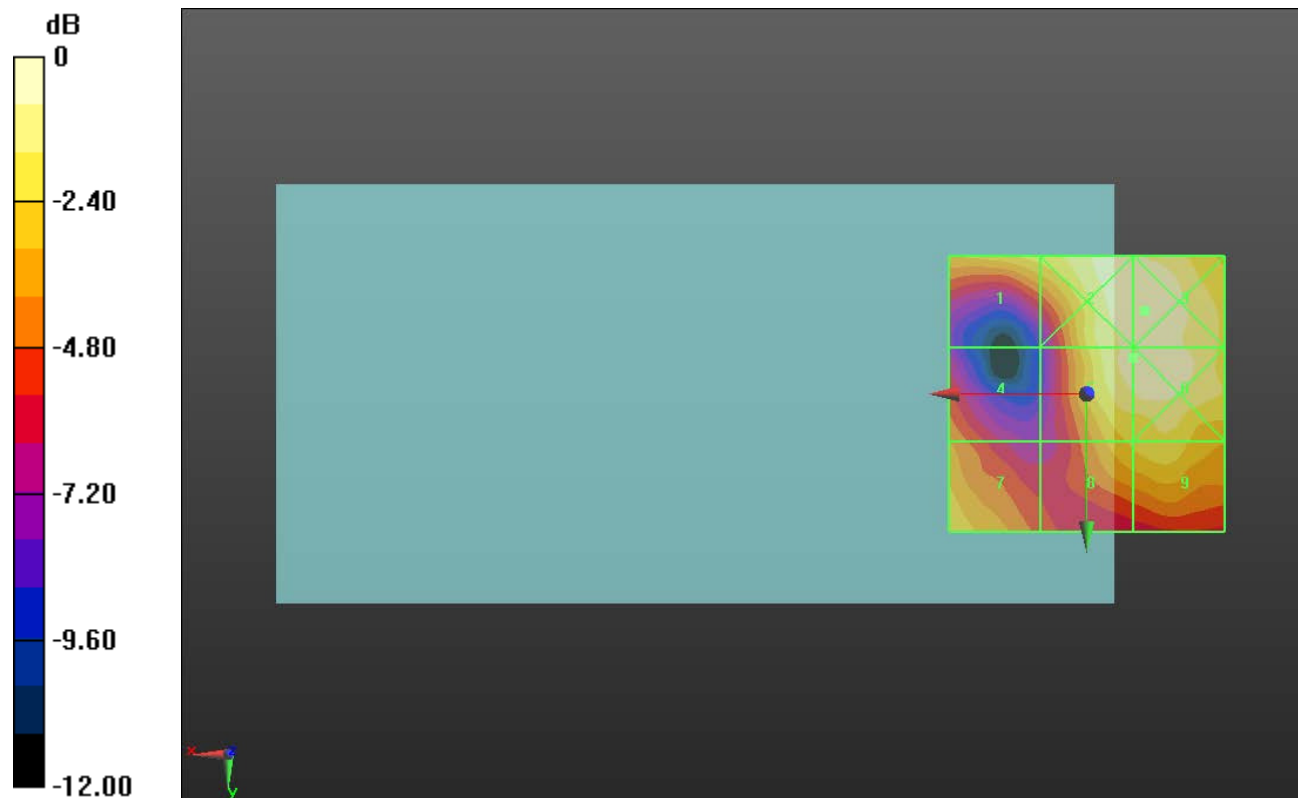
Applied MIF = -1.44 dB

RF audio interference level = 22.28 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 20.94 dBV/m	Grid 2 M4 22.75 dBV/m	Grid 3 M4 22.86 dBV/m
Grid 4 M4 18.96 dBV/m	Grid 5 M4 22.28 dBV/m	Grid 6 M4 22.56 dBV/m
Grid 7 M4 20.4 dBV/m	Grid 8 M4 20.68 dBV/m	Grid 9 M4 21.18 dBV/m



0 dB = 13.90 V/m = 22.86 dBV/m

HAC-RF Emission

Communication System: UID 10173, 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 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- 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 52.8 (7);SEMCAD X Version 14.6.10 (7164)

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 = 13.84 V/m; Power Drift = -0.10 dB

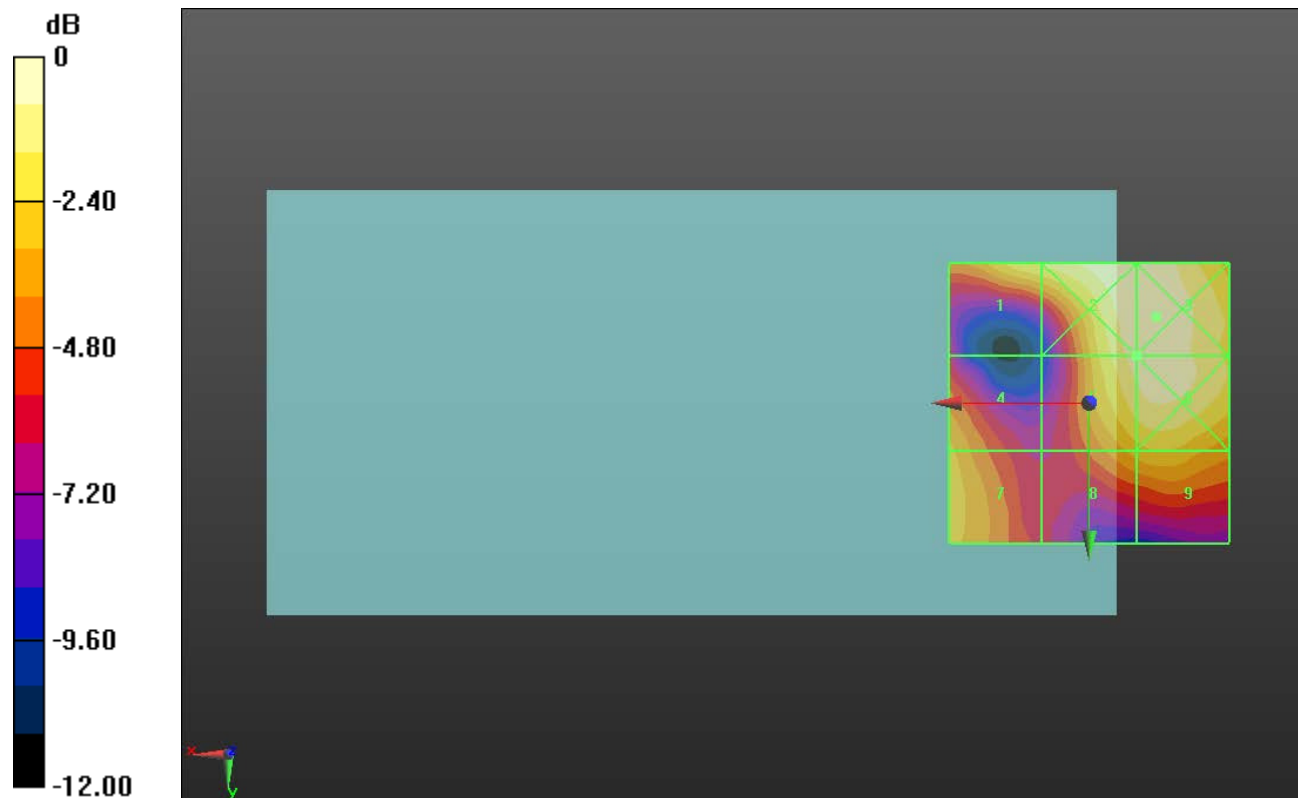
Applied MIF = -1.44 dB

RF audio interference level = 21.61 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 20.66 dBV/m	Grid 2 M4 21.98 dBV/m	Grid 3 M4 22.07 dBV/m
Grid 4 M4 19.13 dBV/m	Grid 5 M4 21.61 dBV/m	Grid 6 M4 21.87 dBV/m
Grid 7 M4 19.39 dBV/m	Grid 8 M4 19.32 dBV/m	Grid 9 M4 19.68 dBV/m



0 dB = 12.69 V/m = 22.07 dBV/m

HAC-RF Emission

Communication System: UID 10173, 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 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- 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 52.8 (7);SEMCAD X Version 14.6.10 (7164)

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 = 11.78 V/m; Power Drift = 0.10 dB

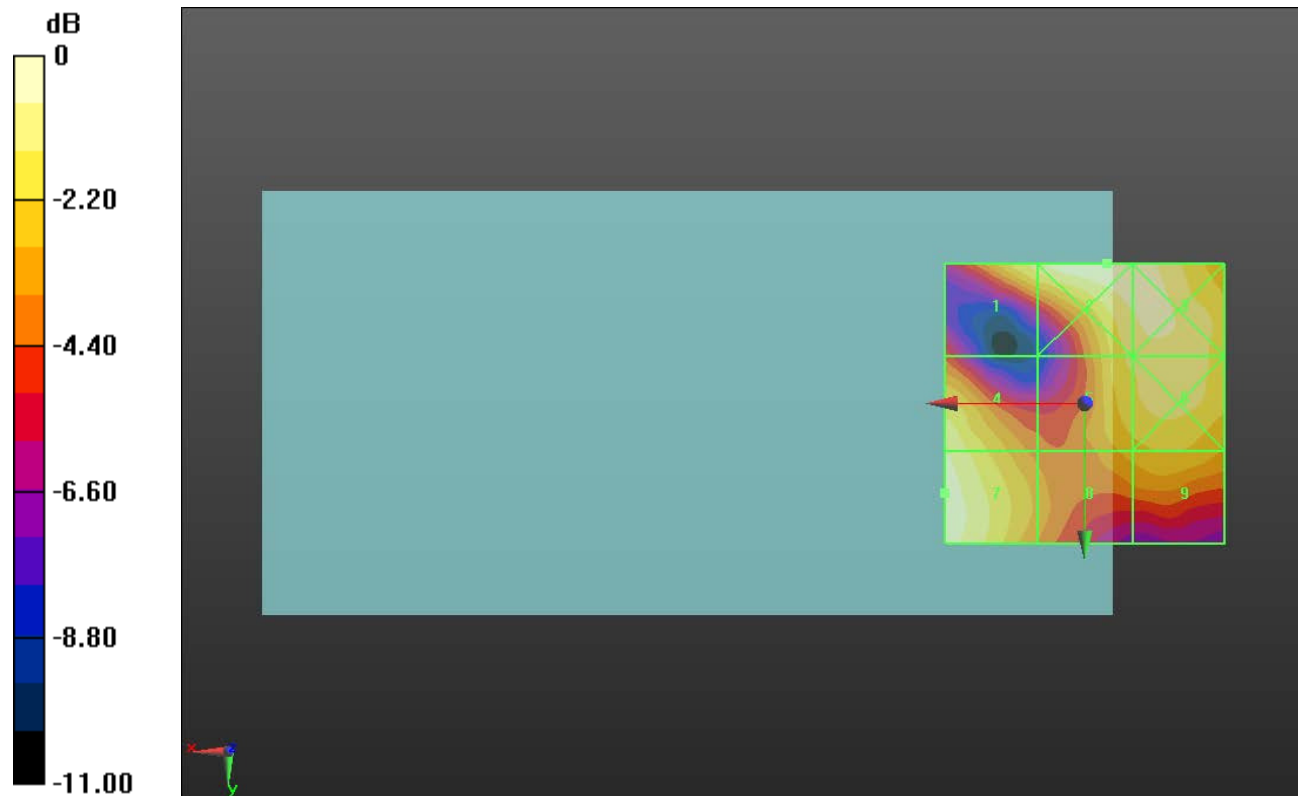
Applied MIF = -1.44 dB

RF audio interference level = 21.52 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 20.75 dBV/m	Grid 2 M4 21.74 dBV/m	Grid 3 M4 21.47 dBV/m
Grid 4 M4 21.1 dBV/m	Grid 5 M4 20.5 dBV/m	Grid 6 M4 20.92 dBV/m
Grid 7 M4 21.52 dBV/m	Grid 8 M4 19.17 dBV/m	Grid 9 M4 19.6 dBV/m



0 dB = 12.22 V/m = 21.74 dBV/m