

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 = 30.31 V/m; Power Drift = -0.10 dB

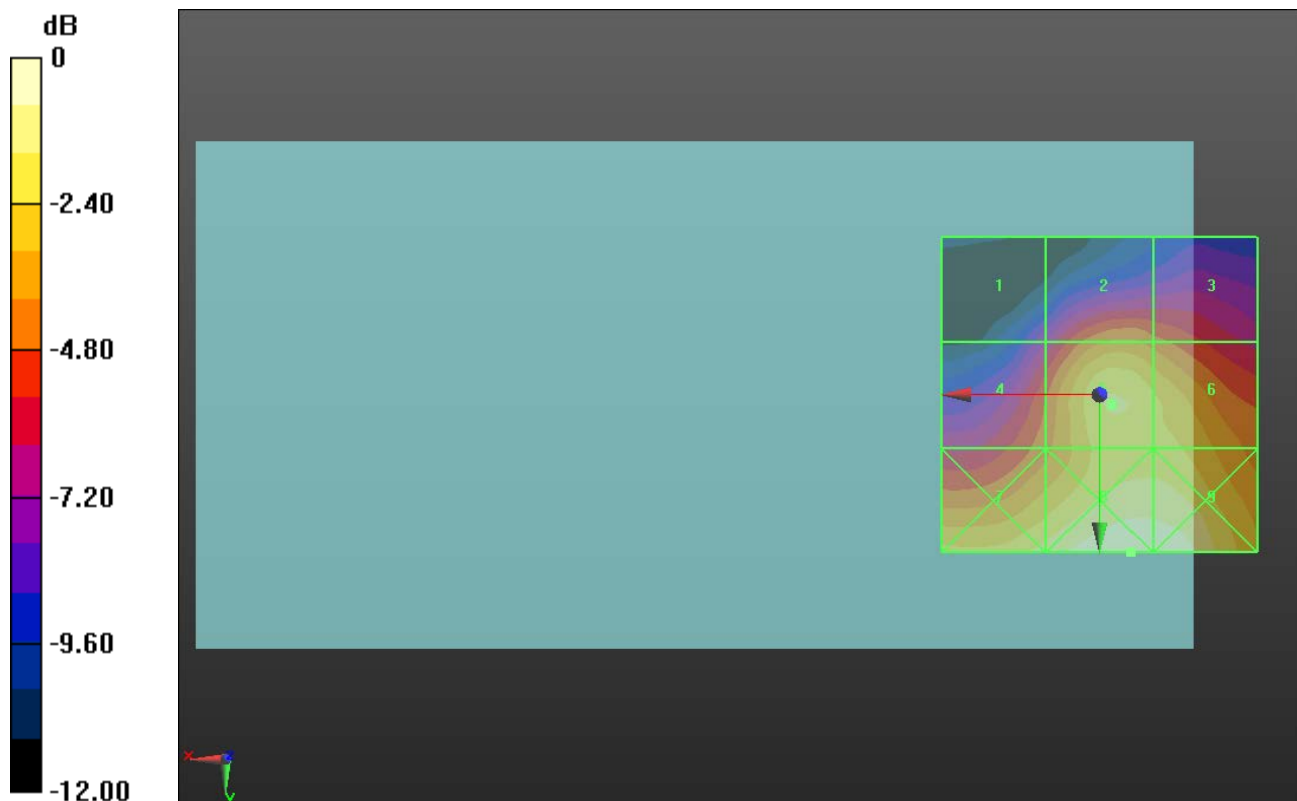
Applied MIF = 3.63 dB

RF audio interference level = 26.92 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 21.23 dBV/m	Grid 2 M4 24.61 dBV/m	Grid 3 M4 24.01 dBV/m
Grid 4 M4 24.21 dBV/m	Grid 5 M4 26.92 dBV/m	Grid 6 M4 26.47 dBV/m
Grid 7 M4 27.21 dBV/m	Grid 8 M4 28.43 dBV/m	Grid 9 M4 28.36 dBV/m



0 dB = 26.40 V/m = 28.43 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 = 28.69 V/m; Power Drift = -0.00 dB

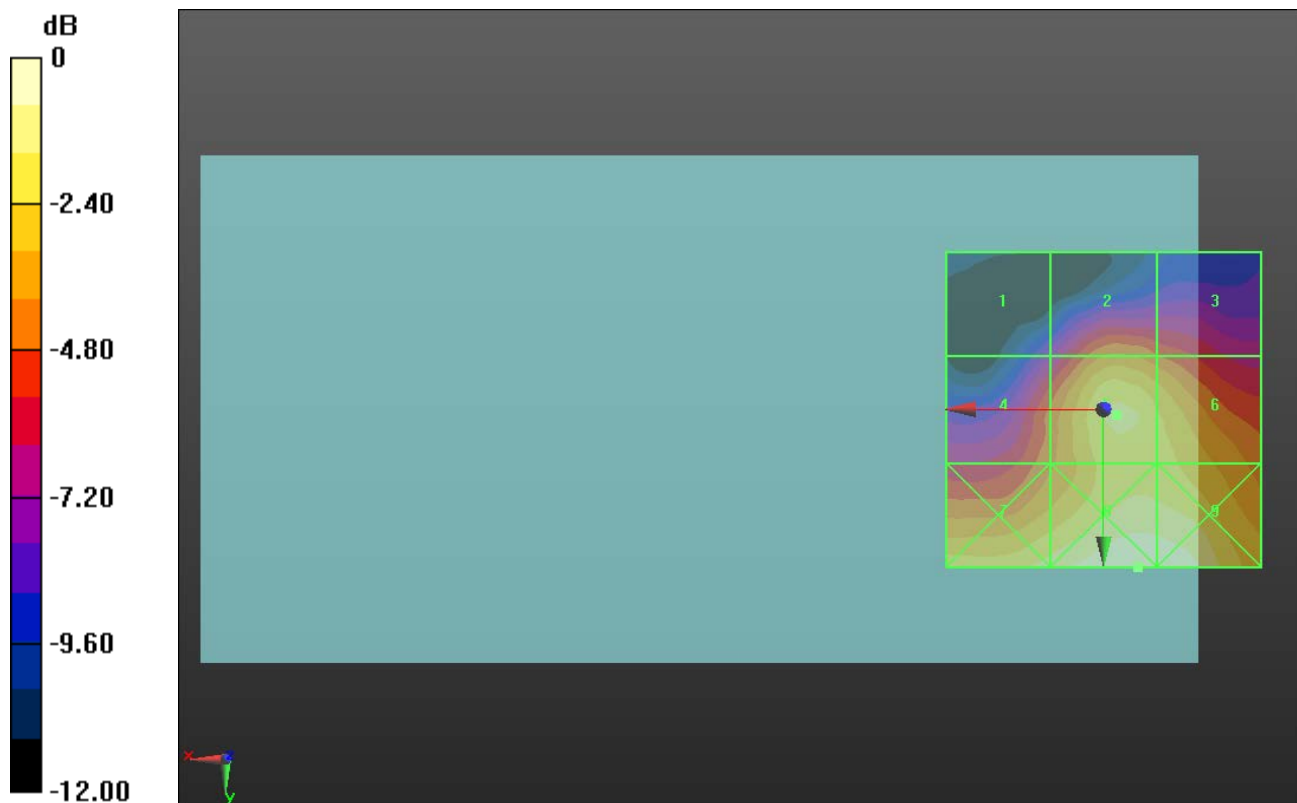
Applied MIF = 3.63 dB

RF audio interference level = 26.10 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 20.05 dBV/m	Grid 2 M4 23.74 dBV/m	Grid 3 M4 22.81 dBV/m
Grid 4 M4 23.35 dBV/m	Grid 5 M4 26.1 dBV/m	Grid 6 M4 25.5 dBV/m
Grid 7 M4 26.31 dBV/m	Grid 8 M4 27.52 dBV/m	Grid 9 M4 27.45 dBV/m



0 dB = 23.77 V/m = 27.52 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 = 28.45 V/m; Power Drift = -0.01 dB

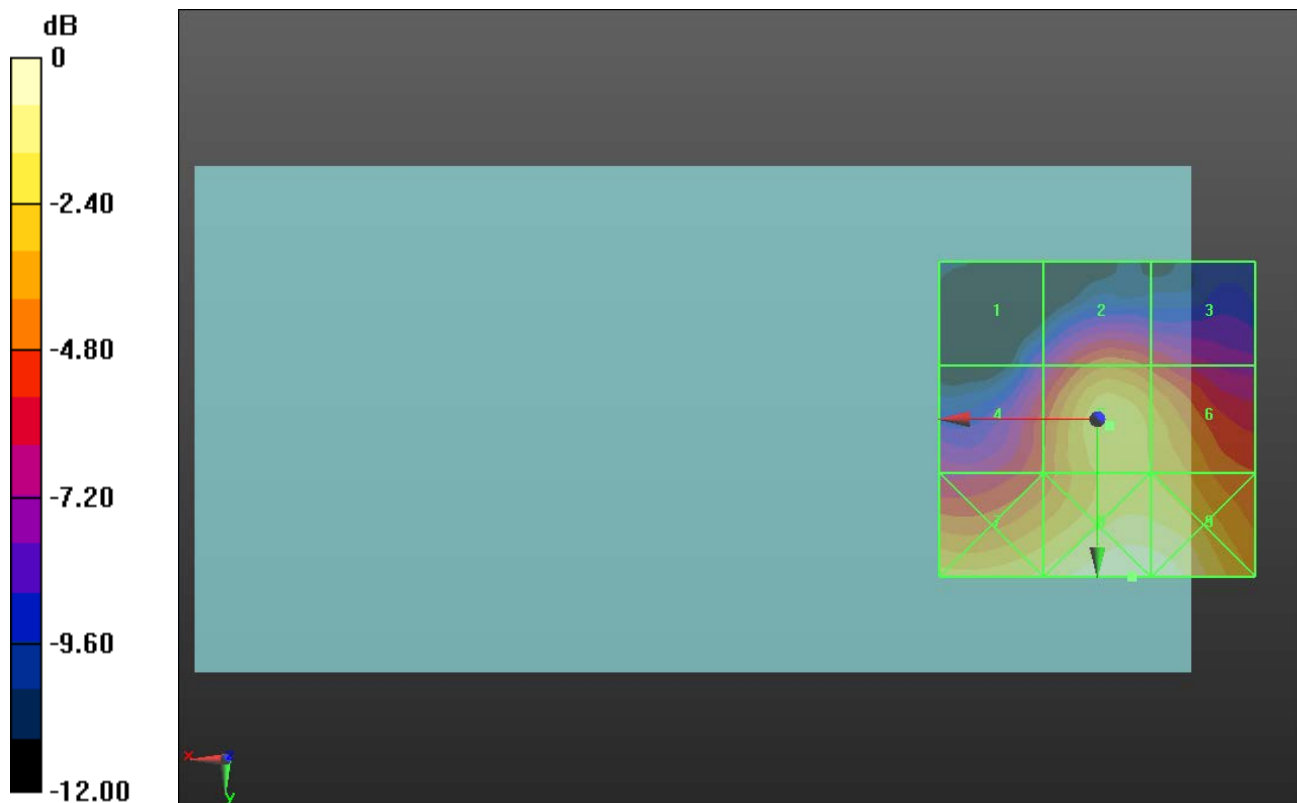
Applied MIF = 3.63 dB

RF audio interference level = 25.99 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 20.15 dBV/m	Grid 2 M4 23.52 dBV/m	Grid 3 M4 22.48 dBV/m
Grid 4 M4 23.02 dBV/m	Grid 5 M4 25.99 dBV/m	Grid 6 M4 25.25 dBV/m
Grid 7 M4 26.29 dBV/m	Grid 8 M4 27.6 dBV/m	Grid 9 M4 27.5 dBV/m



0 dB = 23.98 V/m = 27.60 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 = 35.20 V/m; Power Drift = -0.11 dB

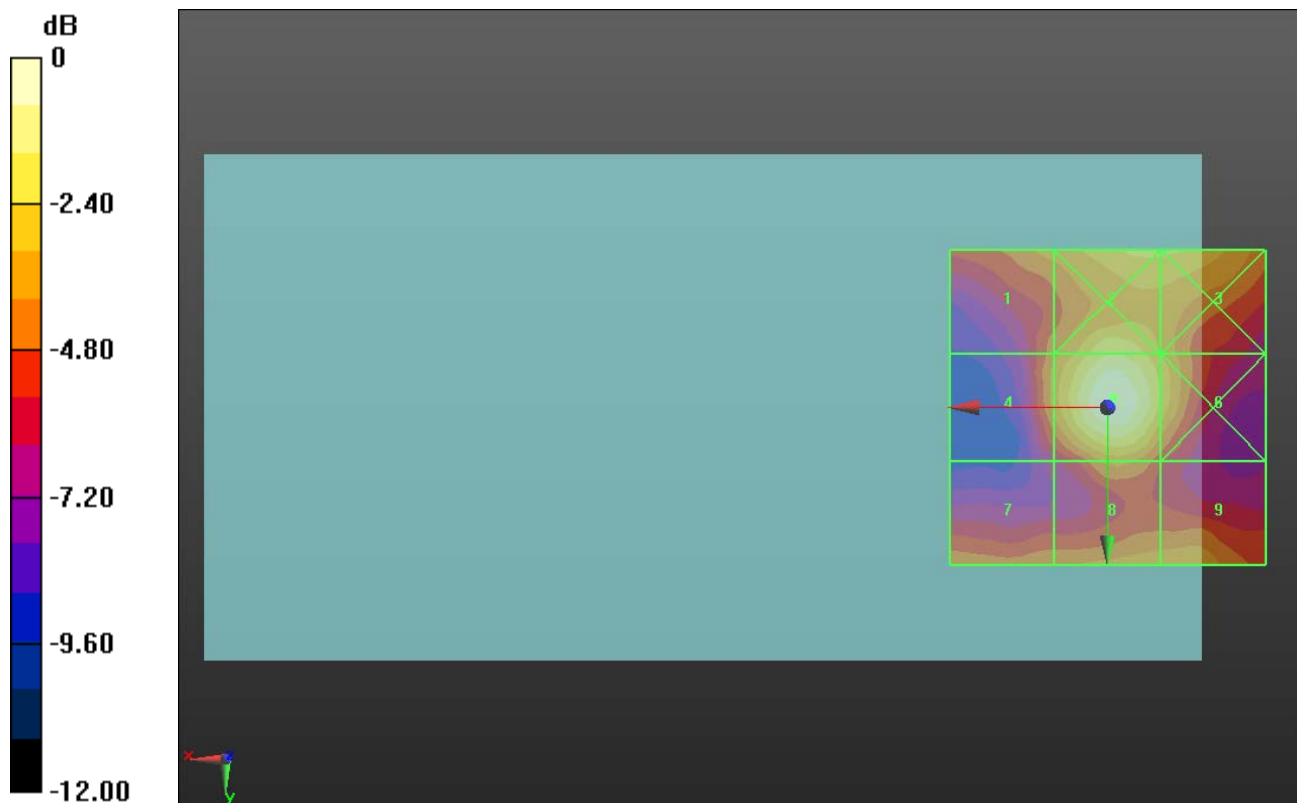
Applied MIF = 3.63 dB

RF audio interference level = 25.94 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 22.41 dBV/m	Grid 2 M4 24.35 dBV/m	Grid 3 M4 23.76 dBV/m
Grid 4 M4 22.32 dBV/m	Grid 5 M4 25.94 dBV/m	Grid 6 M4 23.46 dBV/m
Grid 7 M4 21.98 dBV/m	Grid 8 M4 22.64 dBV/m	Grid 9 M4 22.79 dBV/m



0 dB = 19.81 V/m = 25.94 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 = 34.04 V/m; Power Drift = 0.17 dB

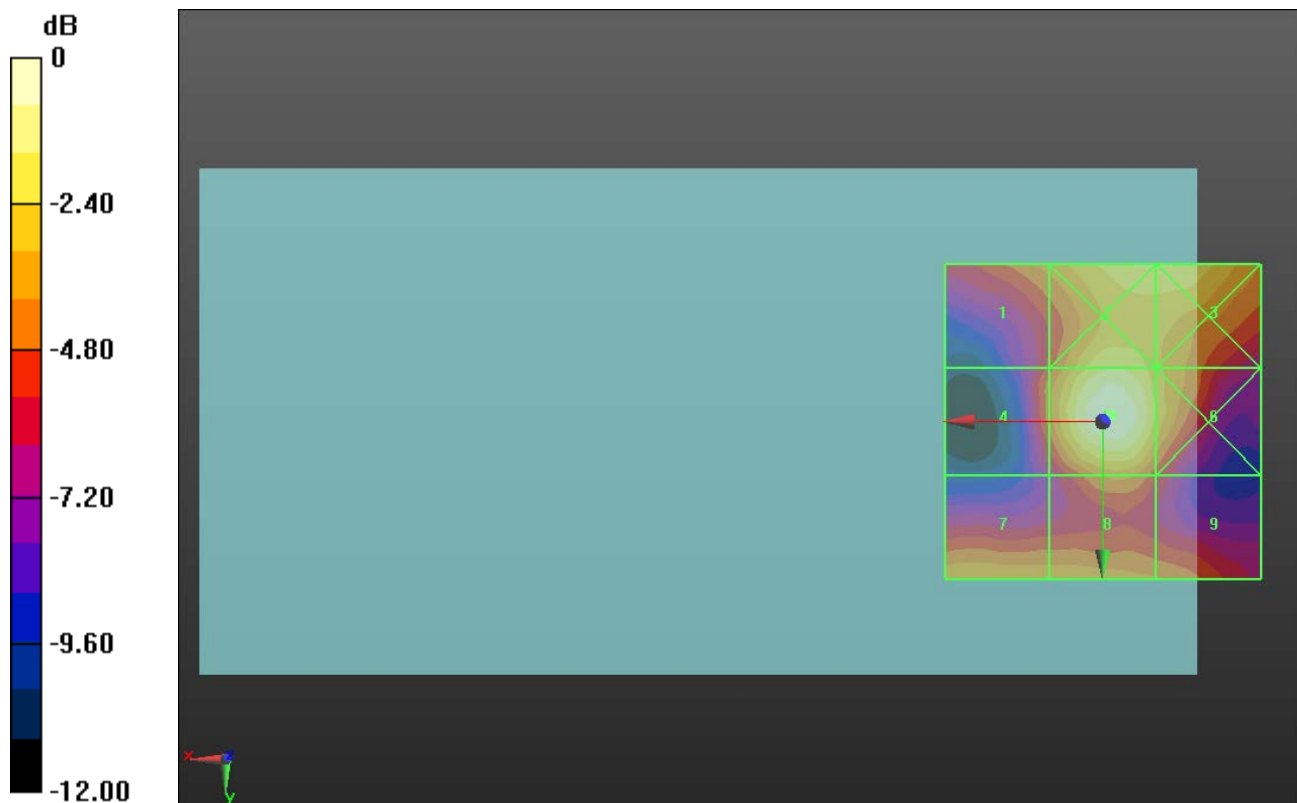
Applied MIF = 3.63 dB

RF audio interference level = 25.86 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 22.25 dBV/m	Grid 2 M4 24.41 dBV/m	Grid 3 M4 24.37 dBV/m
Grid 4 M4 21.56 dBV/m	Grid 5 M4 25.86 dBV/m	Grid 6 M4 23.41 dBV/m
Grid 7 M4 22.7 dBV/m	Grid 8 M4 22.66 dBV/m	Grid 9 M4 22.01 dBV/m



0 dB = 19.63 V/m = 25.86 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 = 34.33 V/m; Power Drift = 0.05 dB

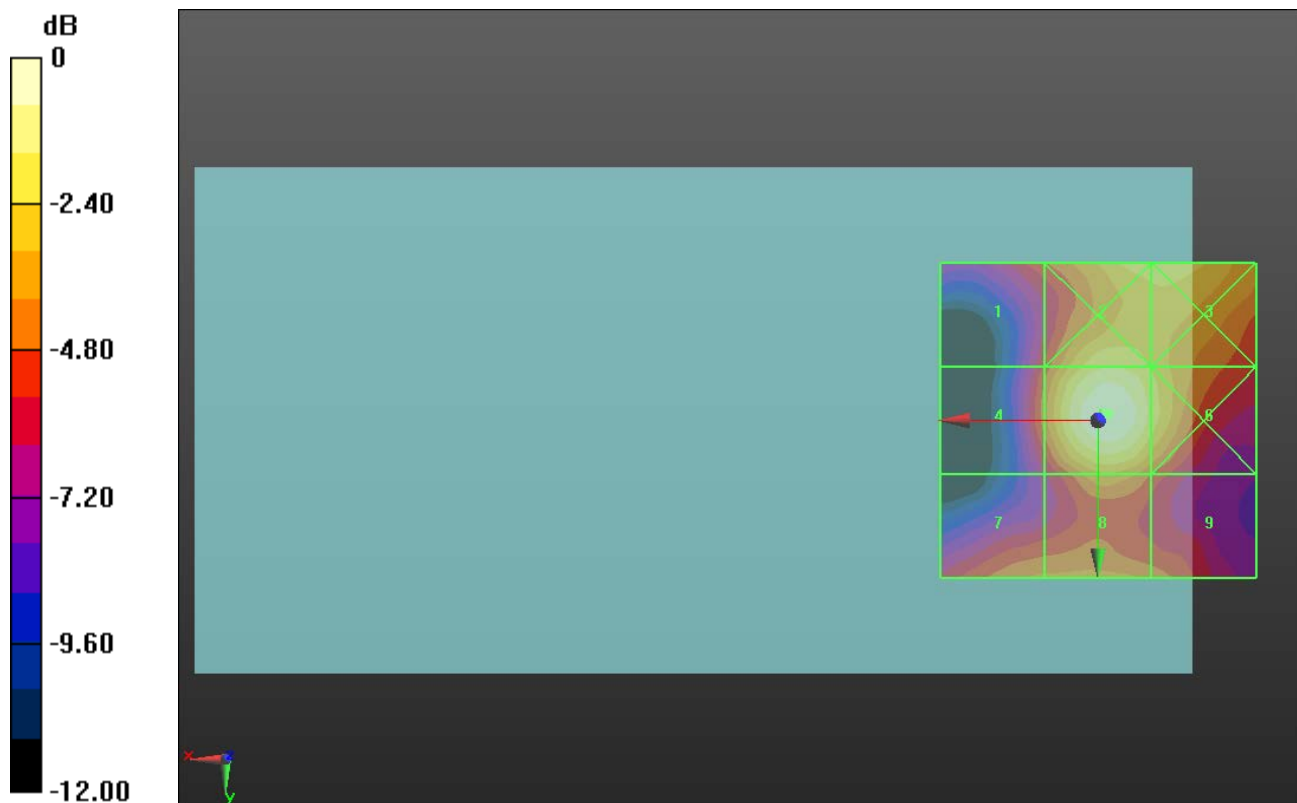
Applied MIF = 3.63 dB

RF audio interference level = 25.94 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 21.09 dBV/m	Grid 2 M4 24.4 dBV/m	Grid 3 M4 24 dBV/m
Grid 4 M4 21.63 dBV/m	Grid 5 M4 25.94 dBV/m	Grid 6 M4 24.09 dBV/m
Grid 7 M4 22.13 dBV/m	Grid 8 M4 22.69 dBV/m	Grid 9 M4 21.74 dBV/m



0 dB = 19.81 V/m = 25.94 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 = 9.149 V/m; Power Drift = 0.01 dB

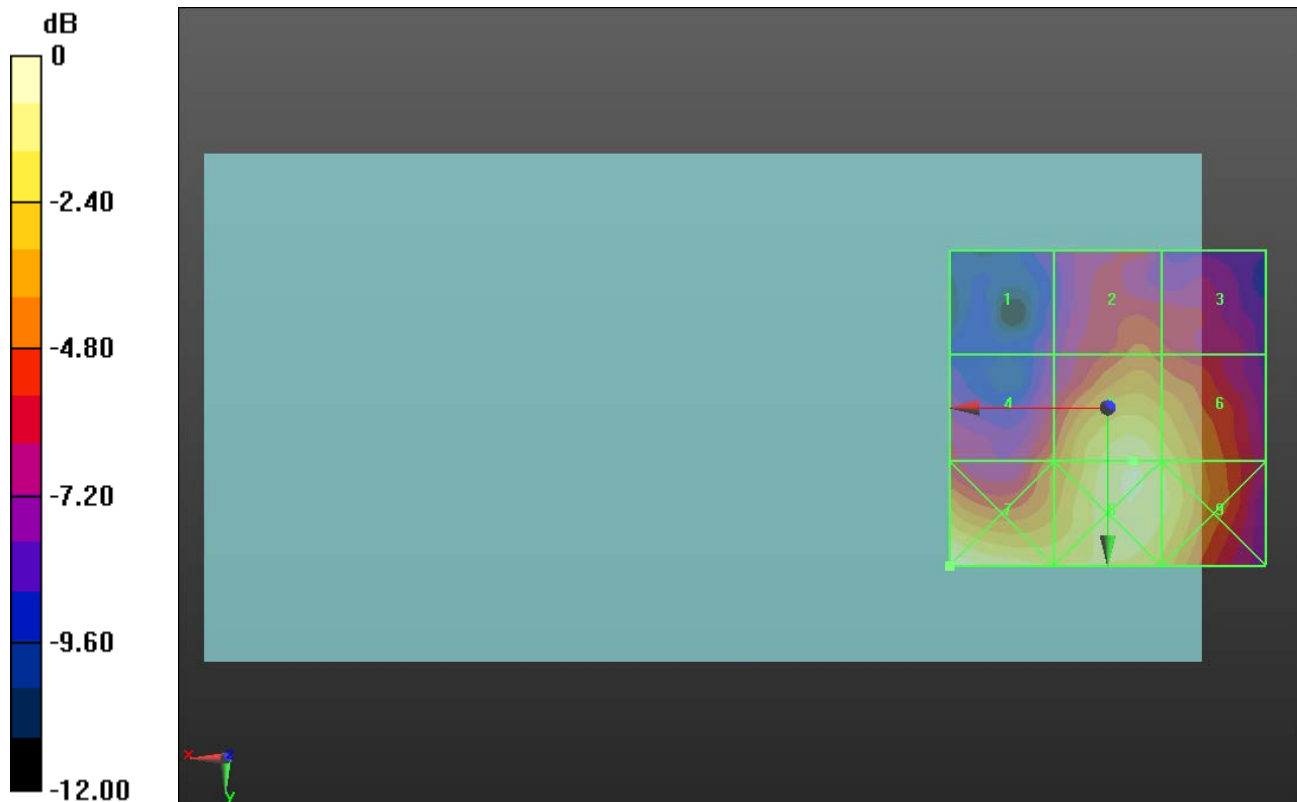
Applied MIF = -1.44 dB

RF audio interference level = 16.97 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 10.37 dBV/m	Grid 2 M4 13.36 dBV/m	Grid 3 M4 12.71 dBV/m
Grid 4 M4 13.66 dBV/m	Grid 5 M4 16.97 dBV/m	Grid 6 M4 16.2 dBV/m
Grid 7 M4 17.88 dBV/m	Grid 8 M4 17.19 dBV/m	Grid 9 M4 16.58 dBV/m



0 dB = 7.831 V/m = 17.88 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 = 6.440 V/m; Power Drift = -0.02 dB

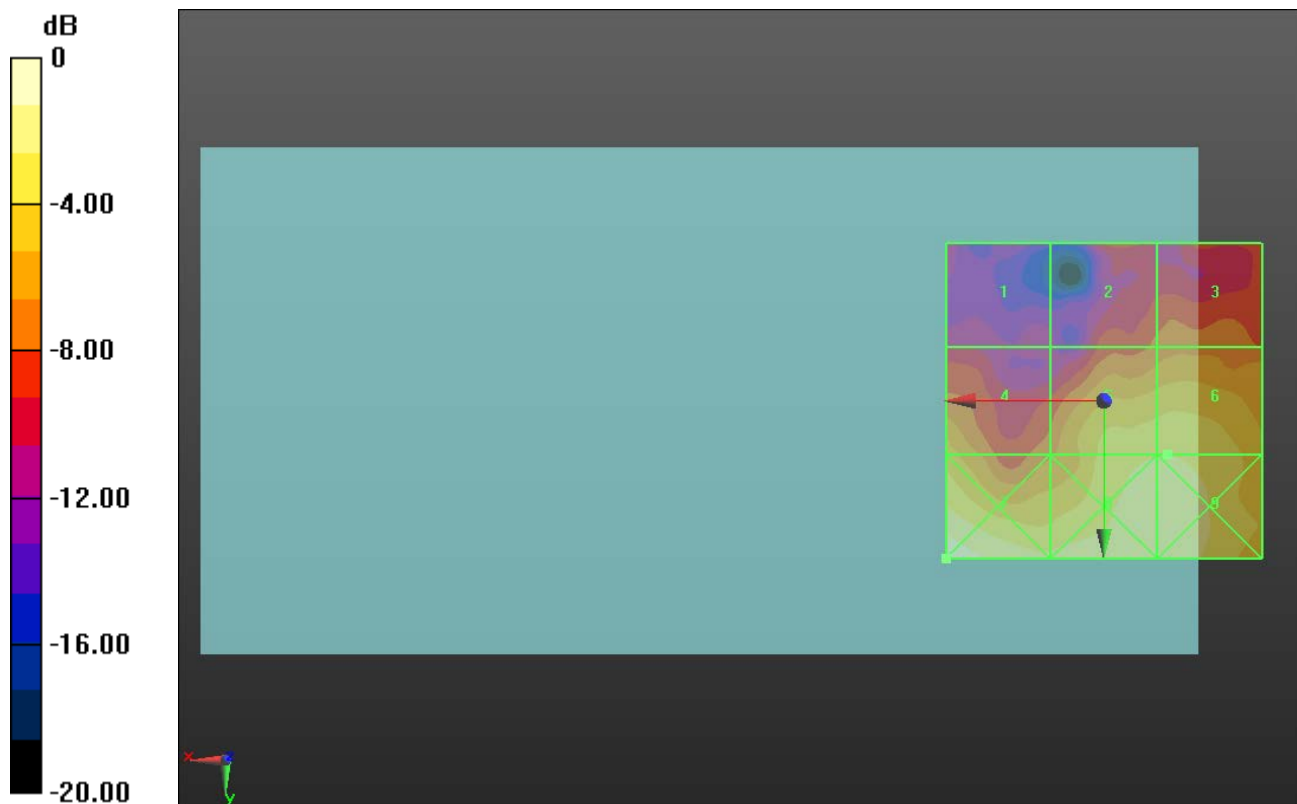
Applied MIF = -1.44 dB

RF audio interference level = 15.17 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 7.54 dBV/m	Grid 2 M4 10.46 dBV/m	Grid 3 M4 11.06 dBV/m
Grid 4 M4 13.22 dBV/m	Grid 5 M4 15.12 dBV/m	Grid 6 M4 15.17 dBV/m
Grid 7 M4 17.86 dBV/m	Grid 8 M4 16.01 dBV/m	Grid 9 M4 15.97 dBV/m



0 dB = 7.818 V/m = 17.86 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 = 4.442 V/m; Power Drift = -0.09 dB

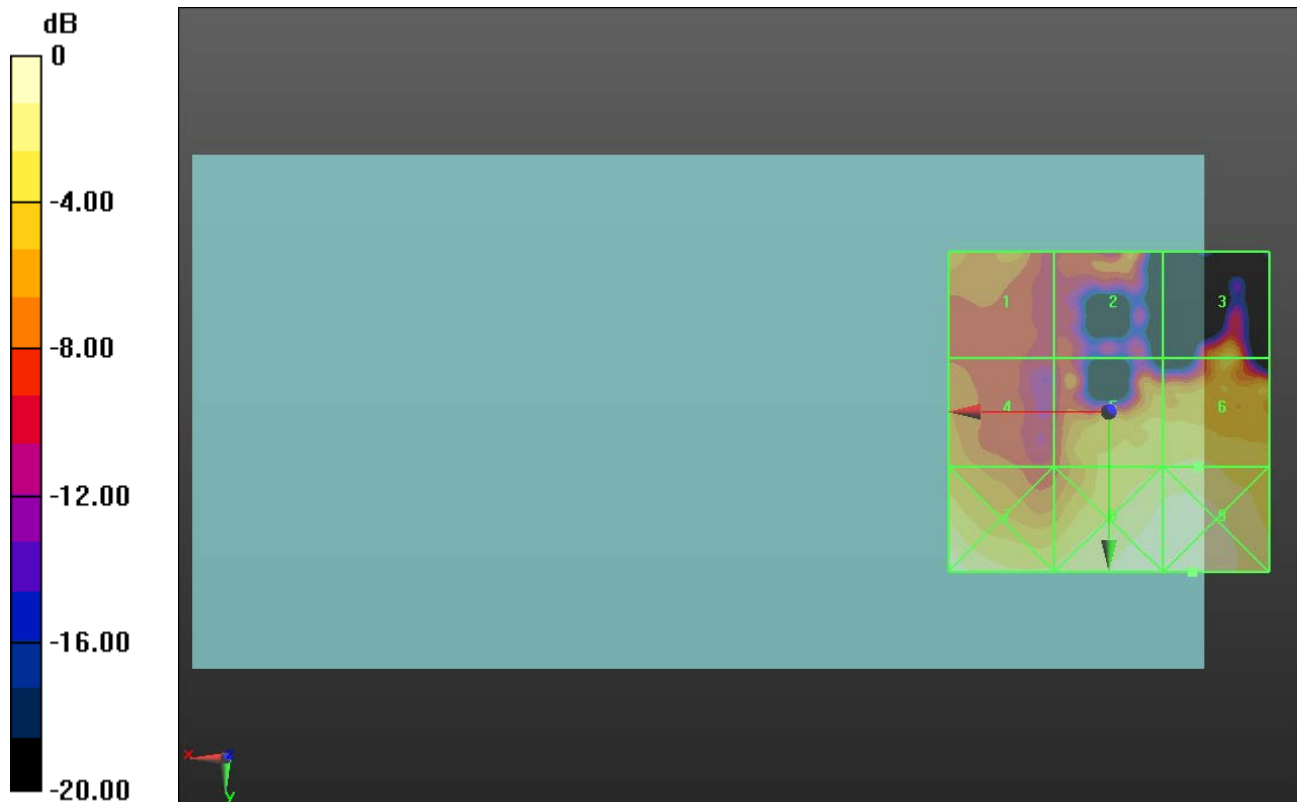
Applied MIF = -1.44 dB

RF audio interference level = 13.02 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 9.93 dBV/m	Grid 2 M4 9.48 dBV/m	Grid 3 M4 12.26 dBV/m
Grid 4 M4 10.33 dBV/m	Grid 5 M4 12.62 dBV/m	Grid 6 M4 13.02 dBV/m
Grid 7 M4 15.16 dBV/m	Grid 8 M4 15.15 dBV/m	Grid 9 M4 15.36 dBV/m



0 dB = 5.862 V/m = 15.36 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 = 3.650 V/m; Power Drift = -0.12 dB

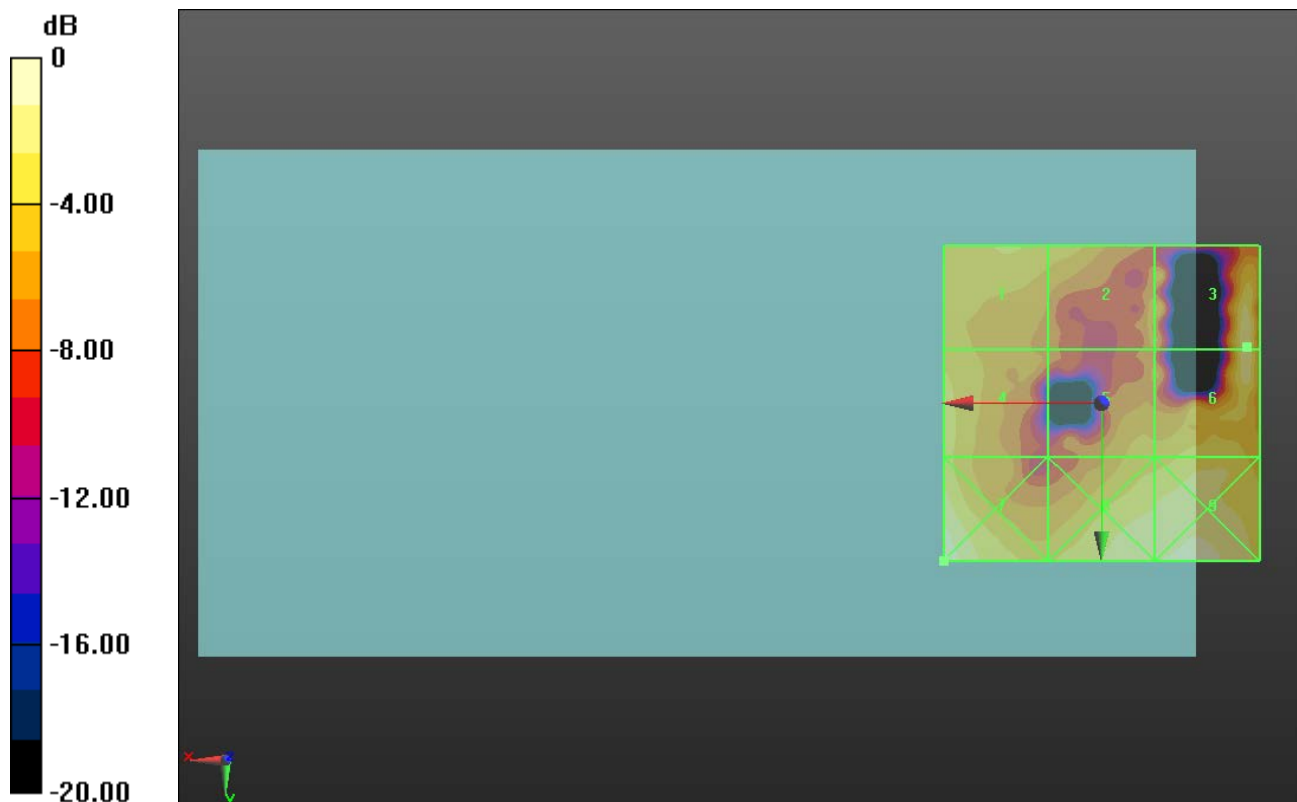
Applied MIF = -1.44 dB

RF audio interference level = 13.73 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 11.5 dBV/m	Grid 2 M4 10.66 dBV/m	Grid 3 M4 13.73 dBV/m
Grid 4 M4 12.07 dBV/m	Grid 5 M4 10.49 dBV/m	Grid 6 M4 13.71 dBV/m
Grid 7 M4 15.1 dBV/m	Grid 8 M4 13.75 dBV/m	Grid 9 M4 14.31 dBV/m



0 dB = 5.689 V/m = 15.10 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 = 3.477 V/m; Power Drift = -0.06 dB

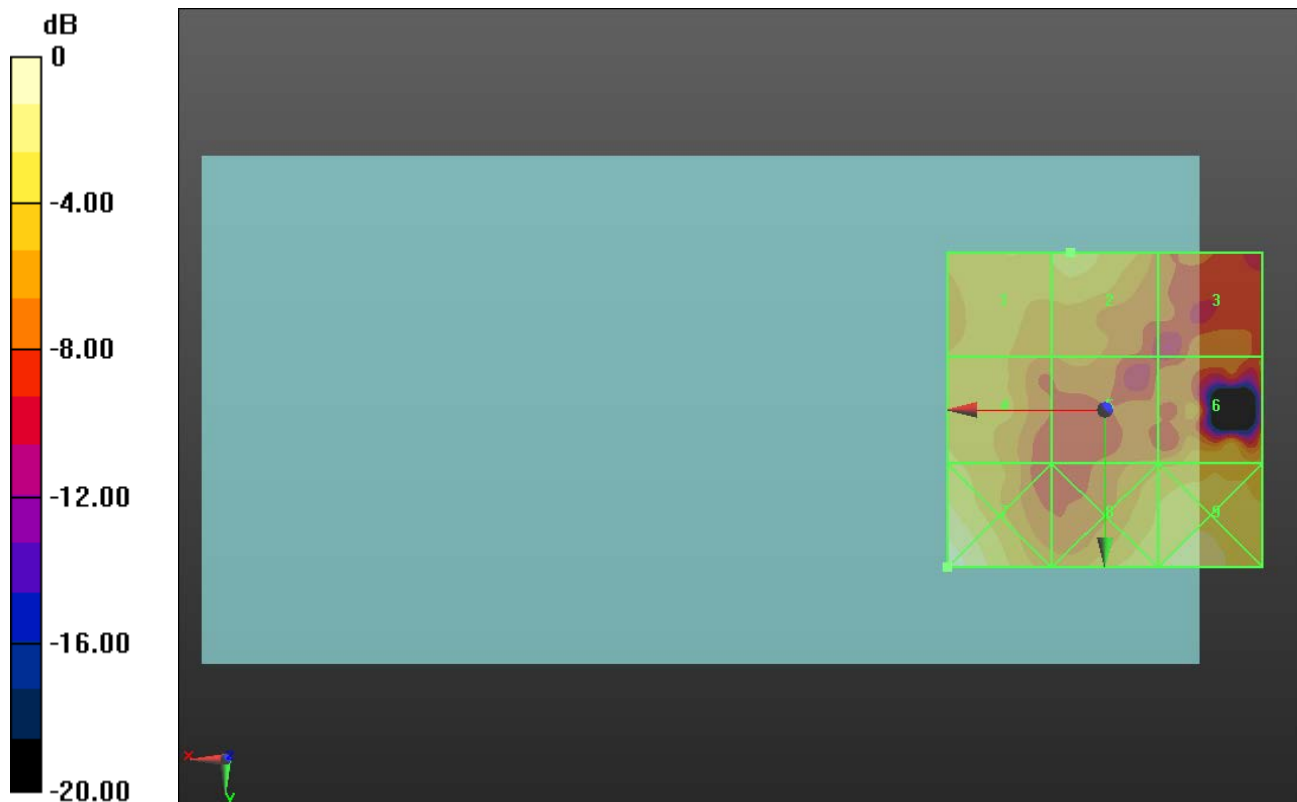
Applied MIF = -1.44 dB

RF audio interference level = 11.63 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 11.32 dBV/m	Grid 2 M4 11.63 dBV/m	Grid 3 M4 8.46 dBV/m
Grid 4 M4 11.61 dBV/m	Grid 5 M4 9.17 dBV/m	Grid 6 M4 11.01 dBV/m
Grid 7 M4 15.26 dBV/m	Grid 8 M4 12.7 dBV/m	Grid 9 M4 13.49 dBV/m



0 dB = 5.793 V/m = 15.26 dBV/m