

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 - SN4064; ConvF(1, 1, 1); Calibrated: 2018-11-15;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2018-03-15
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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 = 46.53 V/m; Power Drift = -0.02 dB

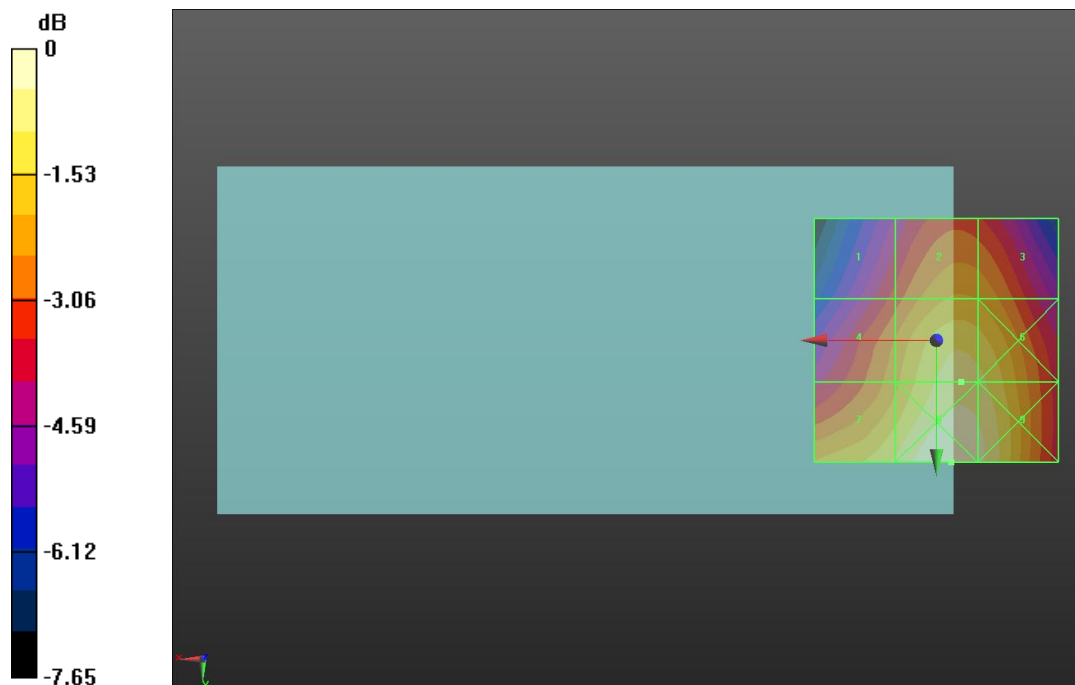
Applied MIF = 3.63 dB

RF audio interference level = 34.80 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 32.23 dBV/m	Grid 2 M4 33.59 dBV/m	Grid 3 M4 33.47 dBV/m
Grid 4 M4 33.35 dBV/m	Grid 5 M4 34.8 dBV/m	Grid 6 M4 34.67 dBV/m
Grid 7 M4 34.61 dBV/m	Grid 8 M4 35.53 dBV/m	Grid 9 M4 35.2 dBV/m



0 dB = 59.75 V/m = 35.53 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 - SN4064; ConvF(1, 1, 1); Calibrated: 2018-11-15;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2018-03-15
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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 = 49.18 V/m; Power Drift = -0.16 dB

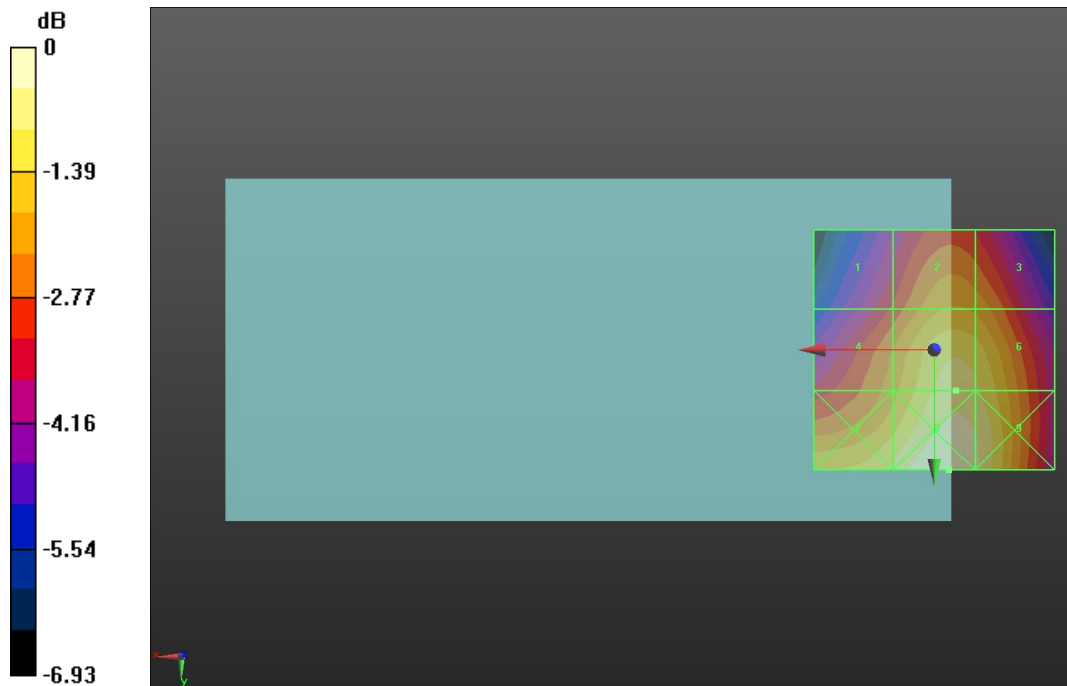
Applied MIF = 3.63 dB

RF audio interference level = 35.05 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 32.63 dBV/m	Grid 2 M4 33.93 dBV/m	Grid 3 M4 33.77 dBV/m
Grid 4 M4 33.72 dBV/m	Grid 5 M4 35.05 dBV/m	Grid 6 M4 34.89 dBV/m
Grid 7 M4 34.93 dBV/m	Grid 8 M4 35.71 dBV/m	Grid 9 M4 35.36 dBV/m



0 dB = 61.00 V/m = 35.71 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 - SN4064; ConvF(1, 1, 1); Calibrated: 2018-11-15;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2018-03-15
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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 = 52.89 V/m; Power Drift = 0.02 dB

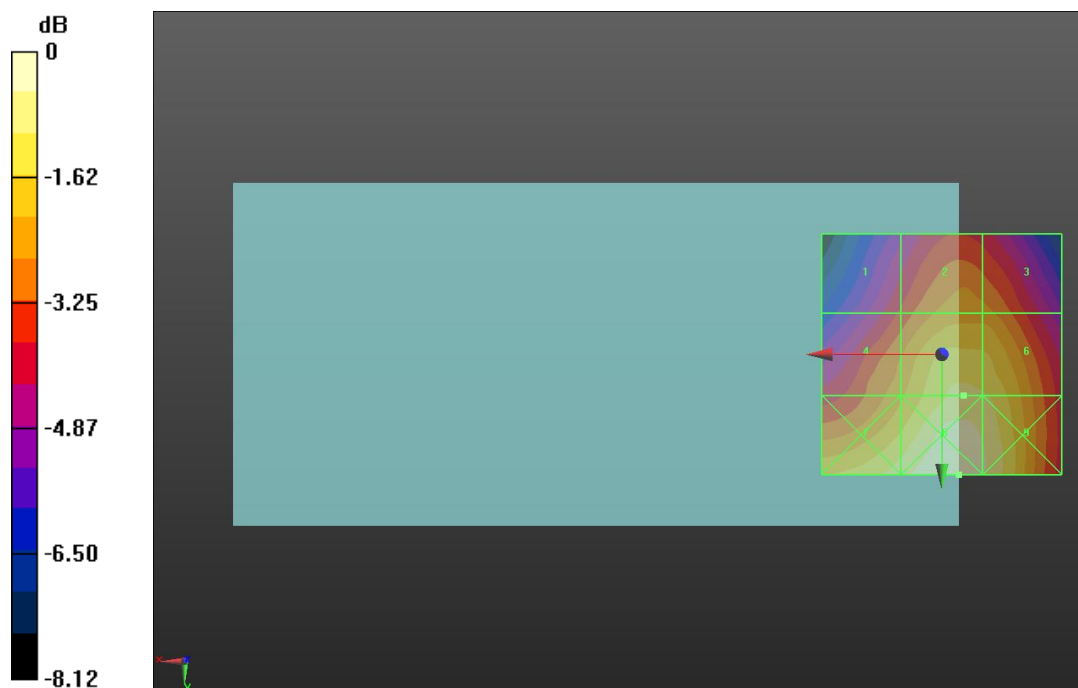
Applied MIF = 3.63 dB

RF audio interference level = 35.51 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 32.83 dBV/m	Grid 2 M4 34.12 dBV/m	Grid 3 M4 34.02 dBV/m
Grid 4 M4 34.2 dBV/m	Grid 5 M4 35.51 dBV/m	Grid 6 M4 35.46 dBV/m
Grid 7 M4 35.69 dBV/m	Grid 8 M4 36.46 dBV/m	Grid 9 M4 36.03 dBV/m



0 dB = 66.53 V/m = 36.46 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 - SN4064; ConvF(1, 1, 1); Calibrated: 2018-11-15;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2018-03-15
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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 = 6.516 V/m; Power Drift = -0.14 dB

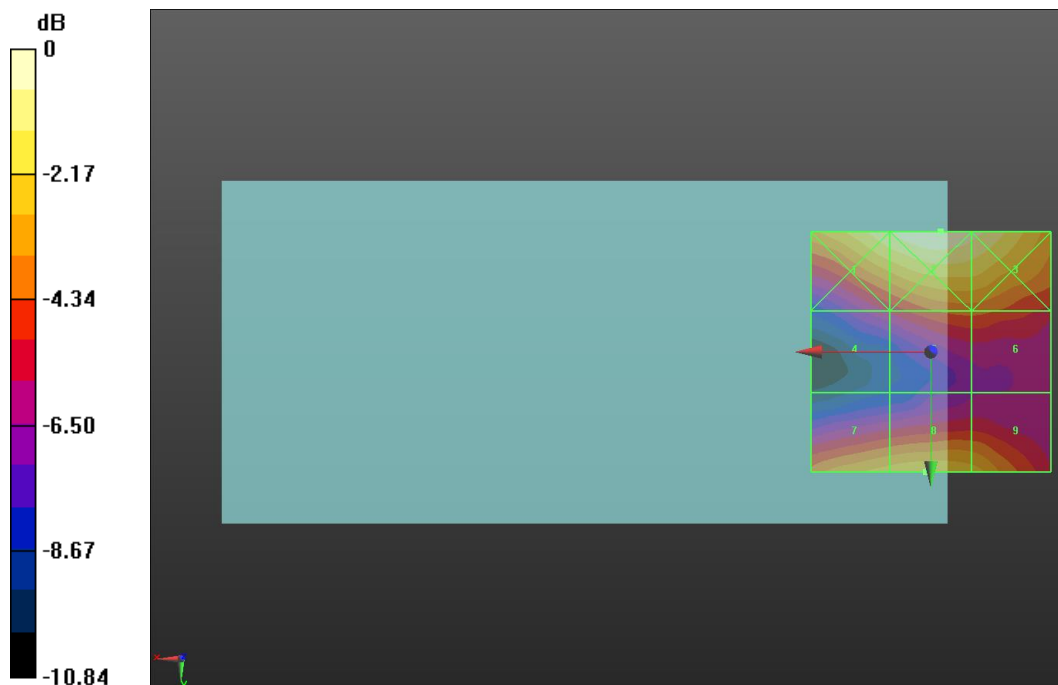
Applied MIF = 3.63 dB

RF audio interference level = 24.83 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 26.21 dBV/m	Grid 2 M4 26.94 dBV/m	Grid 3 M4 26.52 dBV/m
Grid 4 M4 21.33 dBV/m	Grid 5 M4 22.89 dBV/m	Grid 6 M4 22.88 dBV/m
Grid 7 M4 24.49 dBV/m	Grid 8 M4 24.83 dBV/m	Grid 9 M4 24.44 dBV/m



0 dB = 22.24 V/m = 26.94 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 - SN4064; ConvF(1, 1, 1); Calibrated: 2018-11-15;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2018-03-15
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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 = 7.635 V/m; Power Drift = -0.01 dB

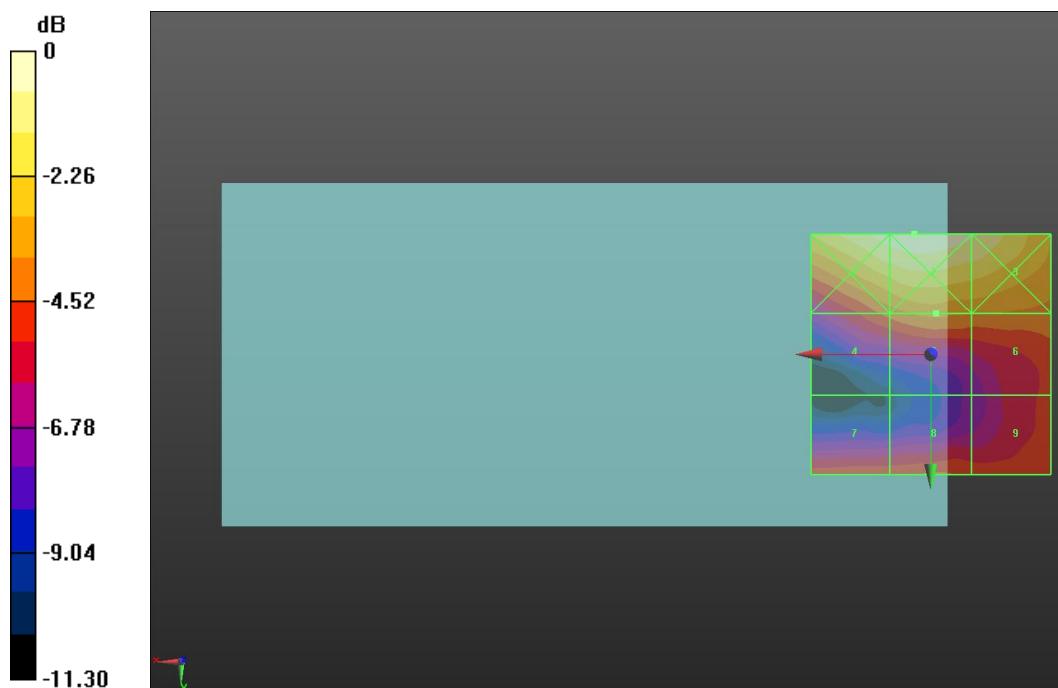
Applied MIF = 3.63 dB

RF audio interference level = 22.78 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 26 dBV/m	Grid 2 M4 26.31 dBV/m	Grid 3 M4 25.71 dBV/m
Grid 4 M4 22.1 dBV/m	Grid 5 M4 22.78 dBV/m	Grid 6 M4 22.61 dBV/m
Grid 7 M4 21.73 dBV/m	Grid 8 M4 21.95 dBV/m	Grid 9 M4 21.73 dBV/m



0 dB = 20.69 V/m = 26.32 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 - SN4064; ConvF(1, 1, 1); Calibrated: 2018-11-15;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2018-03-15
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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 = 6.842 V/m; Power Drift = -0.12 dB

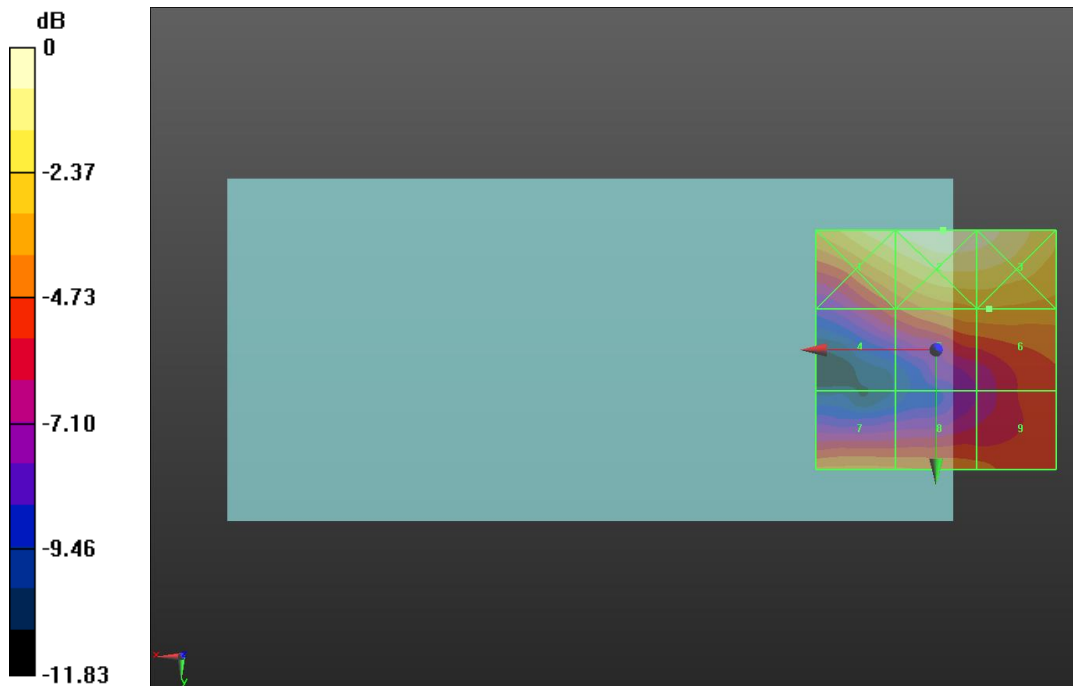
Applied MIF = 3.63 dB

RF audio interference level = 22.61 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 25.06 dBV/m	Grid 2 M4 25.81 dBV/m	Grid 3 M4 25.54 dBV/m
Grid 4 M4 20.94 dBV/m	Grid 5 M4 22.58 dBV/m	Grid 6 M4 22.61 dBV/m
Grid 7 M4 22.19 dBV/m	Grid 8 M4 22.11 dBV/m	Grid 9 M4 21.65 dBV/m



0 dB = 19.52 V/m = 25.81 dBV/m

HAC-RF Emission

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2580 MHz; Duty Cycle: 1:8.87156

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4064; ConvF(1, 1, 1); Calibrated: 2018-11-15;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2018-03-15
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 38 E-Field measurement/LTE TDD_16QAM_RB 1/0_ch 37850/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 = 10.59 V/m; Power Drift = 0.01 dB

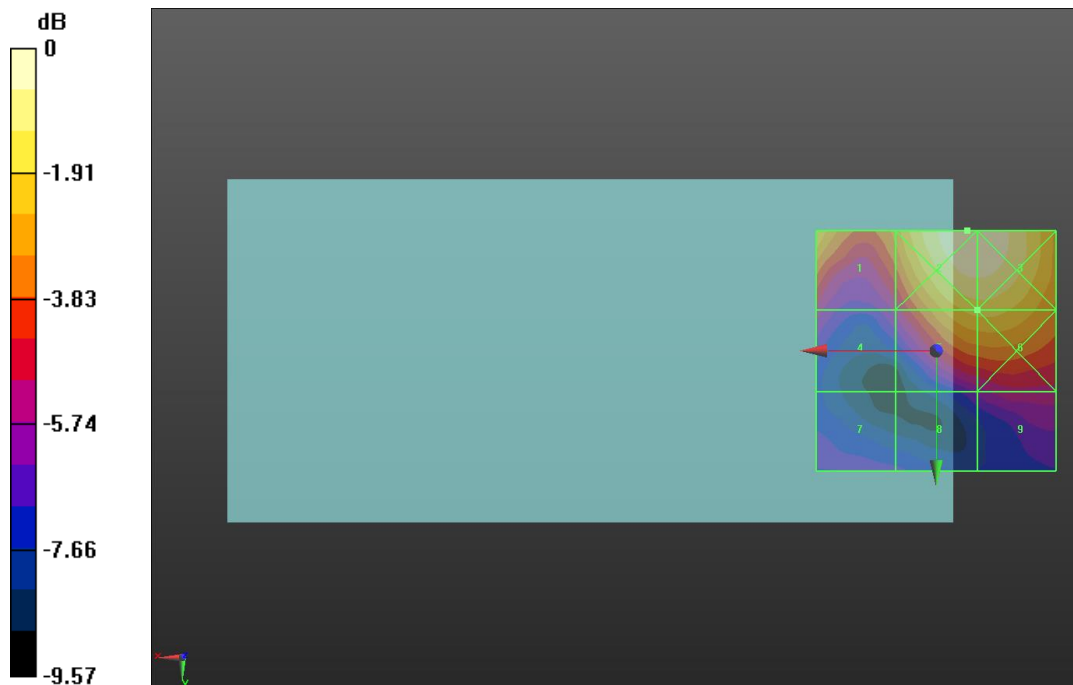
Applied MIF = -1.44 dB

RF audio interference level = 20.60 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 20.51 dBV/m	Grid 2 M4 22.27 dBV/m	Grid 3 M4 22.2 dBV/m
Grid 4 M4 17 dBV/m	Grid 5 M4 20.6 dBV/m	Grid 6 M4 20.64 dBV/m
Grid 7 M4 15.52 dBV/m	Grid 8 M4 16.12 dBV/m	Grid 9 M4 17 dBV/m



0 dB = 12.98 V/m = 22.27 dBV/m

HAC-RF Emission

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2595 MHz; Duty Cycle: 1:8.87156

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4064; ConvF(1, 1, 1); Calibrated: 2018-11-15;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2018-03-15
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 38 E-Field measurement/LTE TDD_16QAM_RB 1/0_ch 38000/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 = 12.19 V/m; Power Drift = 0.01 dB

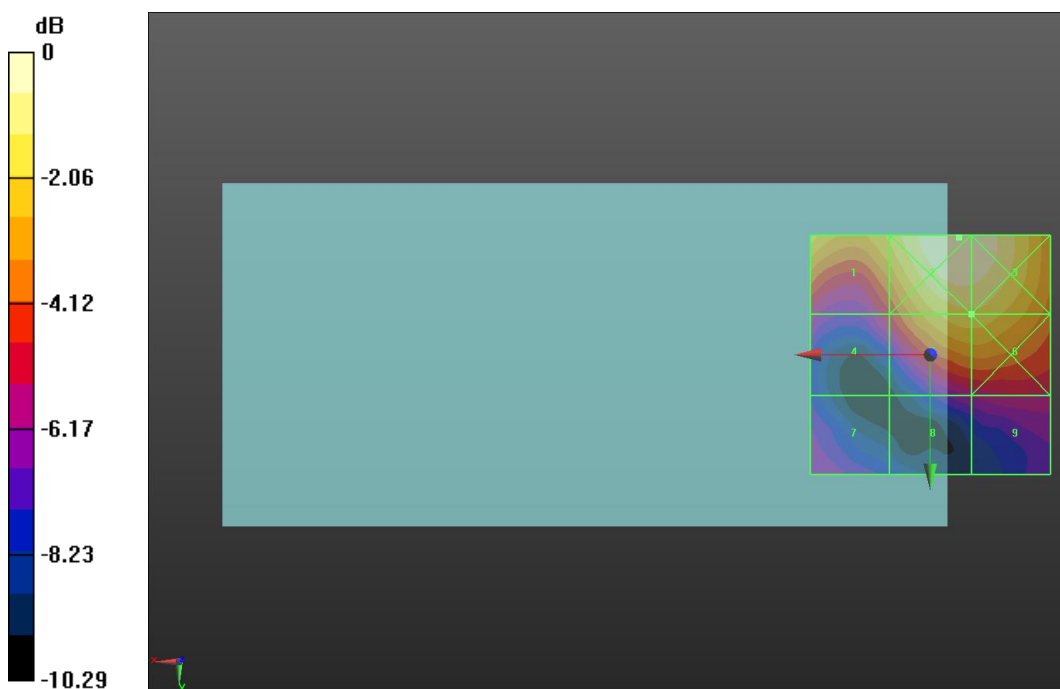
Applied MIF = -1.44 dB

RF audio interference level = 20.72 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 20.69 dBV/m	Grid 2 M4 22.26 dBV/m	Grid 3 M4 22.19 dBV/m
Grid 4 M4 17.38 dBV/m	Grid 5 M4 20.72 dBV/m	Grid 6 M4 20.72 dBV/m
Grid 7 M4 16.17 dBV/m	Grid 8 M4 16.2 dBV/m	Grid 9 M4 16.73 dBV/m



0 dB = 12.97 V/m = 22.26 dBV/m

HAC-RF Emission

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2610 MHz; Duty Cycle: 1:8.87156

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4064; ConvF(1, 1, 1); Calibrated: 2018-11-15;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2018-03-15
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 38 E-Field measurement/LTE TDD_16QAM_RB 1/0_ch 38150/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 = 11.55 V/m; Power Drift = 0.14 dB

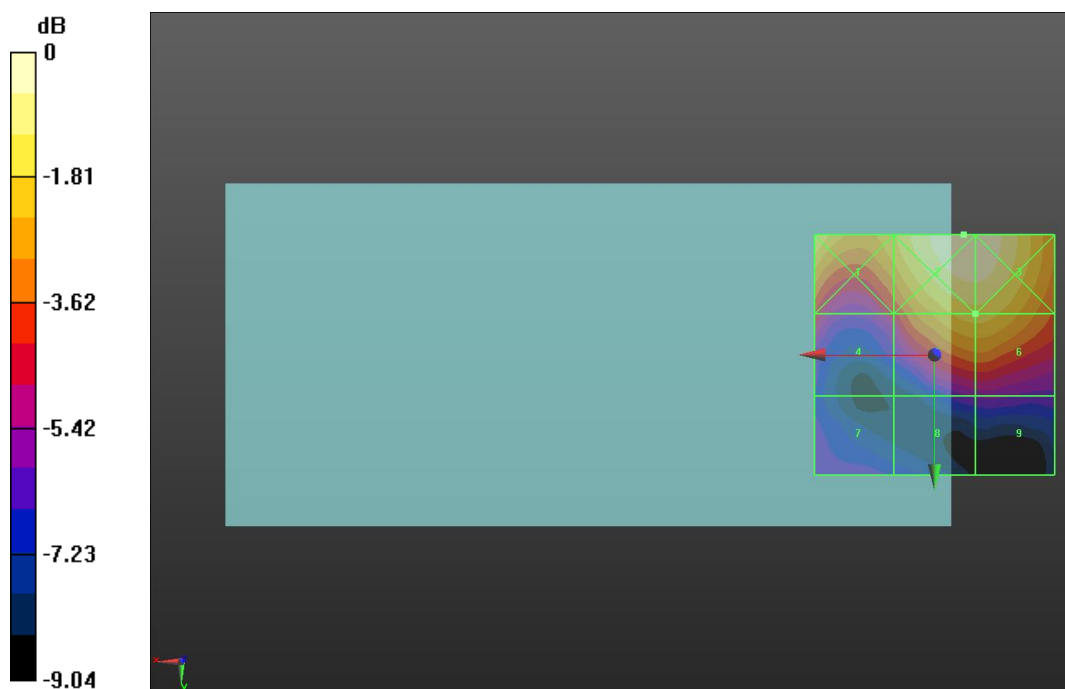
Applied MIF = -1.44 dB

RF audio interference level = 20.61 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 21.26 dBV/m	Grid 2 M4 22.1 dBV/m	Grid 3 M4 22.03 dBV/m
Grid 4 M4 17.93 dBV/m	Grid 5 M4 20.61 dBV/m	Grid 6 M4 20.61 dBV/m
Grid 7 M4 16.14 dBV/m	Grid 8 M4 16.26 dBV/m	Grid 9 M4 16.34 dBV/m



0 dB = 12.74 V/m = 22.10 dBV/m

HAC-RF Emission

Communication System: UID 10173 - CAG, 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 - SN4064; ConvF(1, 1, 1); Calibrated: 2018-11-15;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2018-03-15
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 41 E-Field measurement/LTE TDD_16QAM_RB 1/0_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 = 10.87 V/m; Power Drift = 0.02 dB

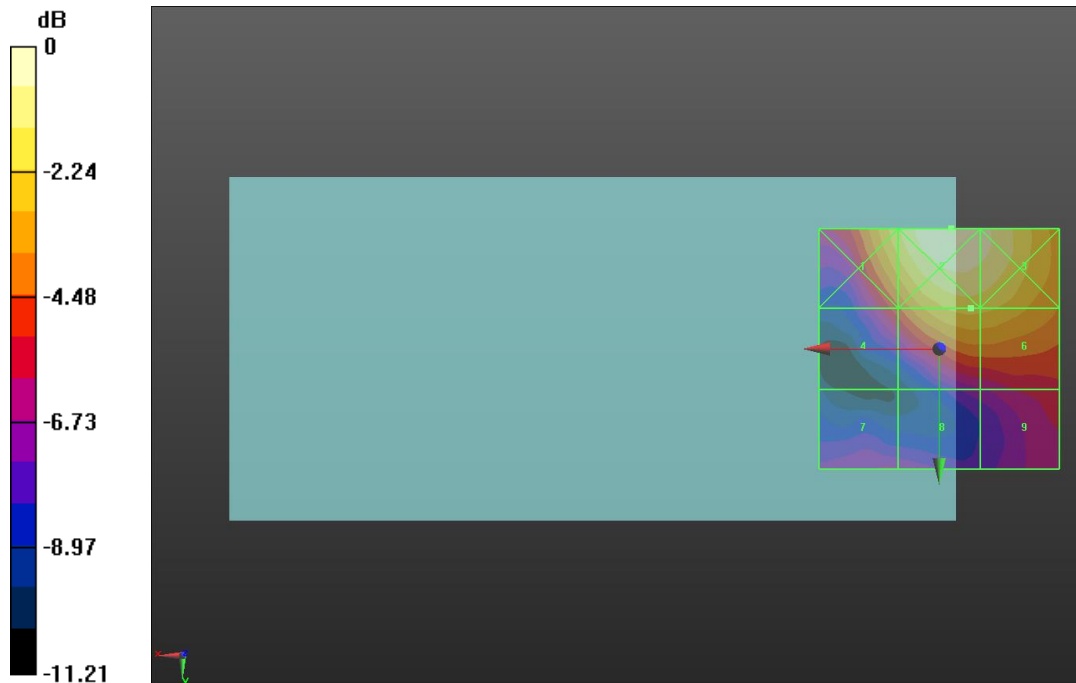
Applied MIF = -1.44 dB

RF audio interference level = 20.25 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 20.63 dBV/m	Grid 2 M4 22.2 dBV/m	Grid 3 M4 21.77 dBV/m
Grid 4 M4 17.62 dBV/m	Grid 5 M4 20.25 dBV/m	Grid 6 M4 20.19 dBV/m
Grid 7 M4 15.64 dBV/m	Grid 8 M4 15.56 dBV/m	Grid 9 M4 16.69 dBV/m



0 dB = 12.88 V/m = 22.20 dBV/m

HAC-RF Emission

Communication System: UID 10173 - CAG, 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 - SN4064; ConvF(1, 1, 1); Calibrated: 2018-11-15;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2018-03-15
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

LTE Band 41 E-Field measurement/LTE TDD_16QAM_RB 1/0_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 = 11.28 V/m; Power Drift = -0.01 dB

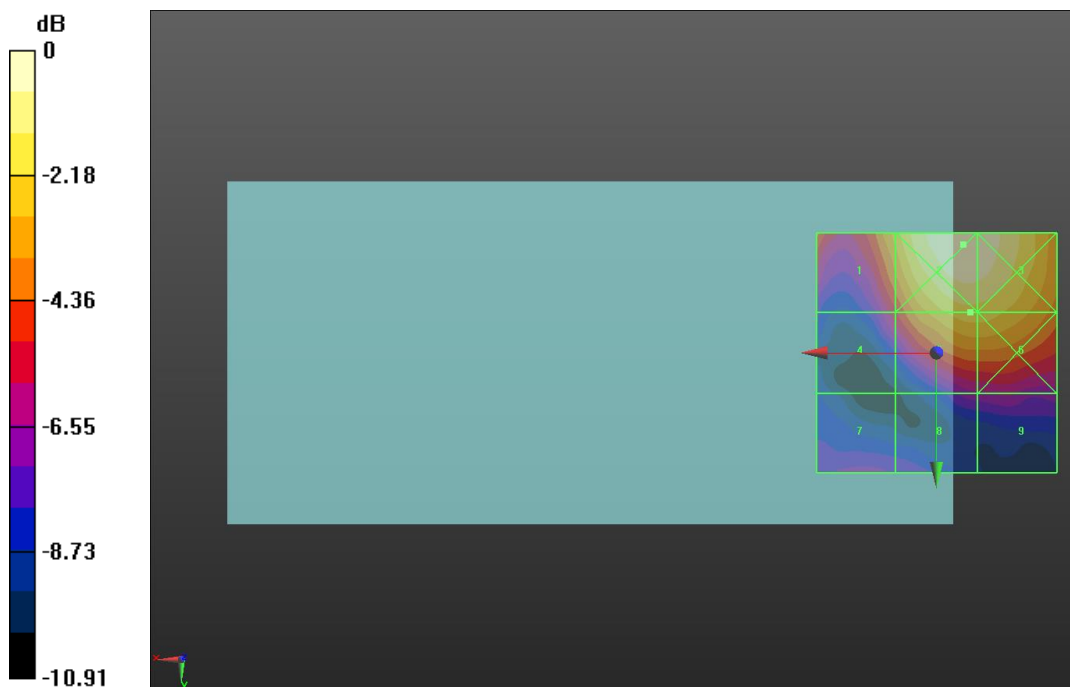
Applied MIF = -1.44 dB

RF audio interference level = 20.92 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 20.12 dBV/m	Grid 2 M4 22.66 dBV/m	Grid 3 M4 22.53 dBV/m
Grid 4 M4 17.45 dBV/m	Grid 5 M4 20.92 dBV/m	Grid 6 M4 20.89 dBV/m
Grid 7 M4 15.75 dBV/m	Grid 8 M4 15.93 dBV/m	Grid 9 M4 16.27 dBV/m



0 dB = 13.58 V/m = 22.66 dBV/m

HAC-RF Emission

Communication System: UID 10173 - CAG, 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 - SN4064; ConvF(1, 1, 1); Calibrated: 2018-11-15;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2018-03-15
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

LTE Band 41 E-Field measurement/LTE TDD_16QAM_RB 1/0_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 = 11.42 V/m; Power Drift = -0.01 dB

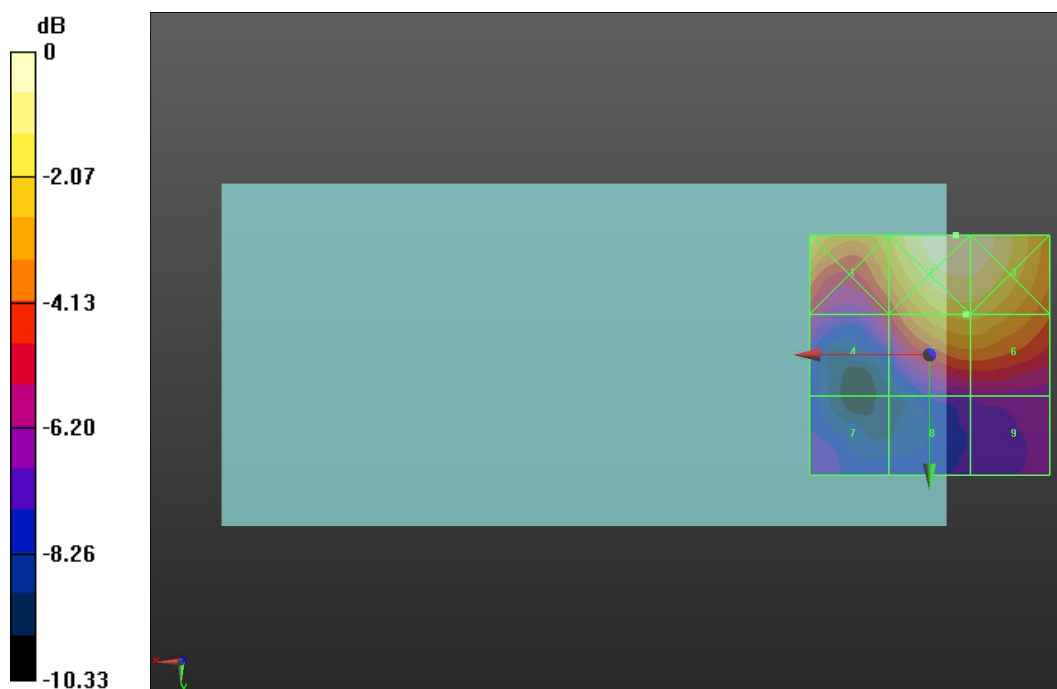
Applied MIF = -1.44 dB

RF audio interference level = 20.36 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 20.73 dBV/m	Grid 2 M4 22.17 dBV/m	Grid 3 M4 22.06 dBV/m
Grid 4 M4 17.26 dBV/m	Grid 5 M4 20.36 dBV/m	Grid 6 M4 20.36 dBV/m
Grid 7 M4 15.32 dBV/m	Grid 8 M4 15.52 dBV/m	Grid 9 M4 15.77 dBV/m



0 dB = 12.84 V/m = 22.17 dBV/m

HAC-RF Emission

Communication System: UID 10173 - CAG, 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 - SN4064; ConvF(1, 1, 1); Calibrated: 2018-11-15;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2018-03-15
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 41 E-Field measurement/LTE TDD_16QAM_RB 1/0_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 = 12.96 V/m; Power Drift = 0.16 dB

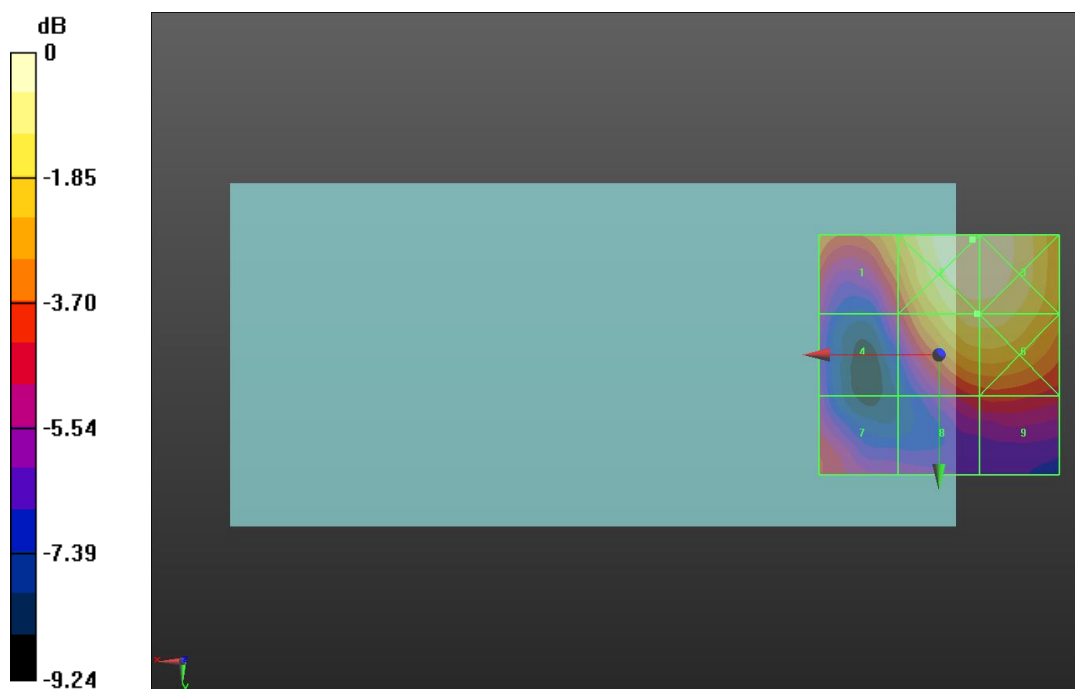
Applied MIF = -1.44 dB

RF audio interference level = 21.25 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 20.04 dBV/m	Grid 2 M4 22.17 dBV/m	Grid 3 M4 22.16 dBV/m
Grid 4 M4 17.4 dBV/m	Grid 5 M4 21.25 dBV/m	Grid 6 M4 21.25 dBV/m
Grid 7 M4 18 dBV/m	Grid 8 M4 18.03 dBV/m	Grid 9 M4 18.19 dBV/m



0 dB = 12.84 V/m = 22.17 dBV/m

HAC-RF Emission

Communication System: UID 10173 - CAG, 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 - SN4064; ConvF(1, 1, 1); Calibrated: 2018-11-15;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1447; Calibrated: 2018-03-15
- Phantom: HAC Test Arch with sAMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

LTE Band 41 E-Field measurement/LTE TDD_16QAM_RB 1/0_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 = 15.94 V/m; Power Drift = -0.08 dB

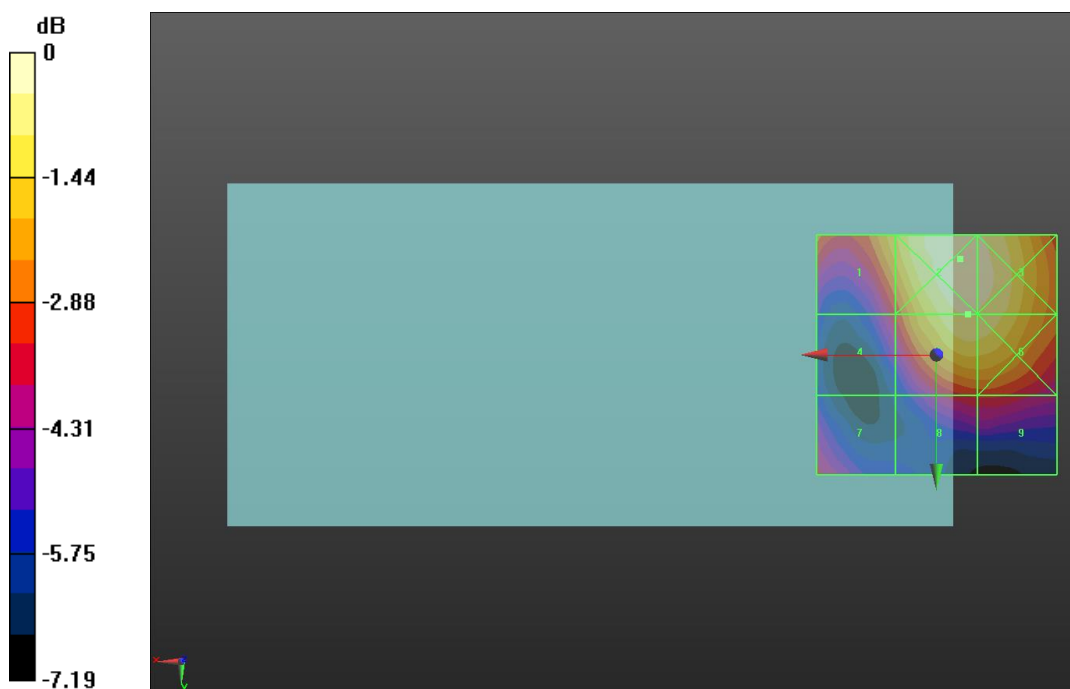
Applied MIF = -1.44 dB

RF audio interference level = 22.23 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 21.2 dBV/m	Grid 2 M4 22.67 dBV/m	Grid 3 M4 22.47 dBV/m
Grid 4 M4 19.36 dBV/m	Grid 5 M4 22.23 dBV/m	Grid 6 M4 22.16 dBV/m
Grid 7 M4 19.11 dBV/m	Grid 8 M4 19.43 dBV/m	Grid 9 M4 19.44 dBV/m



0 dB = 13.60 V/m = 22.67 dBV/m