

HAC-RF Emission

Communication System: 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 Sn1433; Calibrated: 3/8/2017
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

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 = 22.56 V/m; Power Drift = -0.01 dB

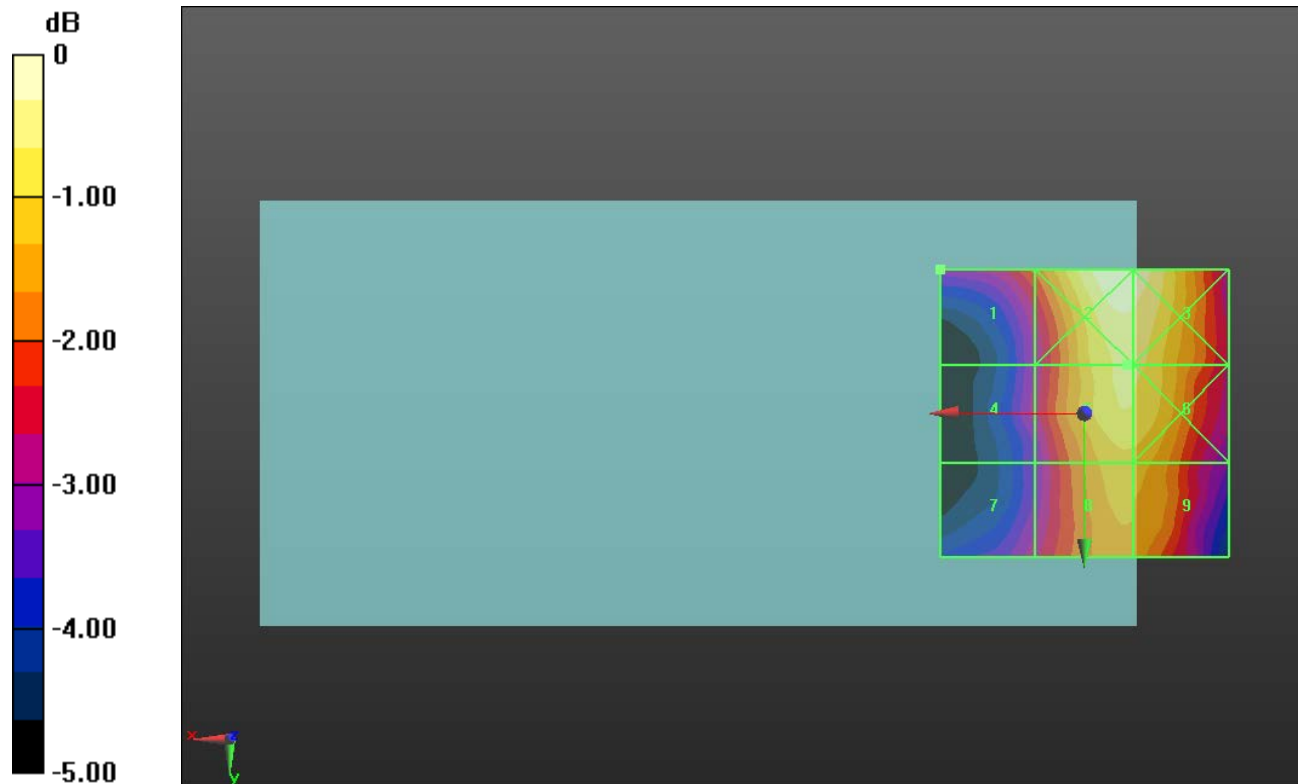
Applied MIF = 3.63 dB

RF audio interference level = 28.50 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 27.22 dBV/m	Grid 2 M4 29.07 dBV/m	Grid 3 M4 29.01 dBV/m
Grid 4 M4 26.31 dBV/m	Grid 5 M4 28.5 dBV/m	Grid 6 M4 28.49 dBV/m
Grid 7 M4 26.33 dBV/m	Grid 8 M4 27.97 dBV/m	Grid 9 M4 27.93 dBV/m



0 dB = 28.42 V/m = 29.07 dBV/m

HAC-RF Emission

Communication System: 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 Sn1433; Calibrated: 3/8/2017
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

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 = 27.86 V/m; Power Drift = 0.02 dB

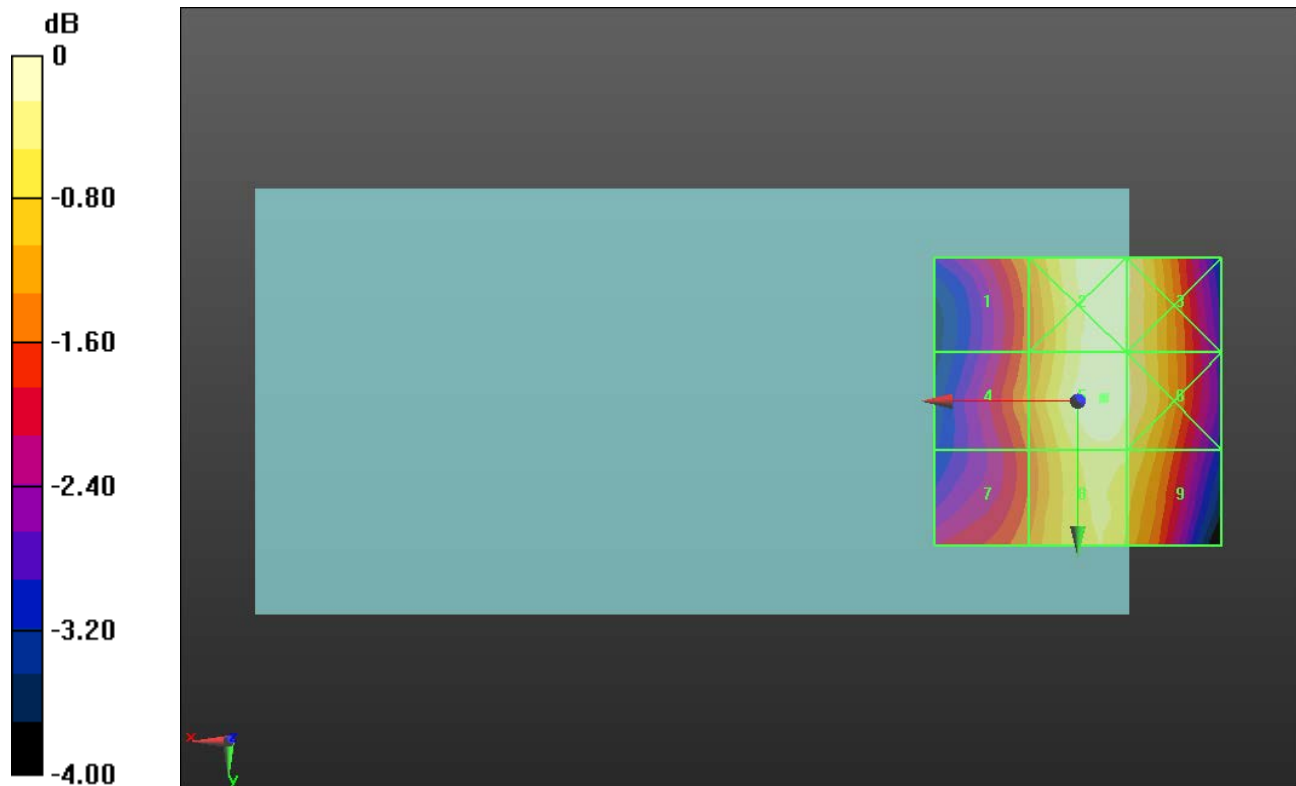
Applied MIF = 3.63 dB

RF audio interference level = 30.22 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 29.05 dBV/m	Grid 2 M4 30.21 dBV/m	Grid 3 M4 30.01 dBV/m
Grid 4 M4 29.03 dBV/m	Grid 5 M4 30.22 dBV/m	Grid 6 M4 30.03 dBV/m
Grid 7 M4 28.9 dBV/m	Grid 8 M4 29.85 dBV/m	Grid 9 M4 29.74 dBV/m



0 dB = 32.43 V/m = 30.22 dBV/m

HAC-RF Emission

Communication System: 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 Sn1433; Calibrated: 3/8/2017
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

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 = 34.58 V/m; Power Drift = -0.19 dB

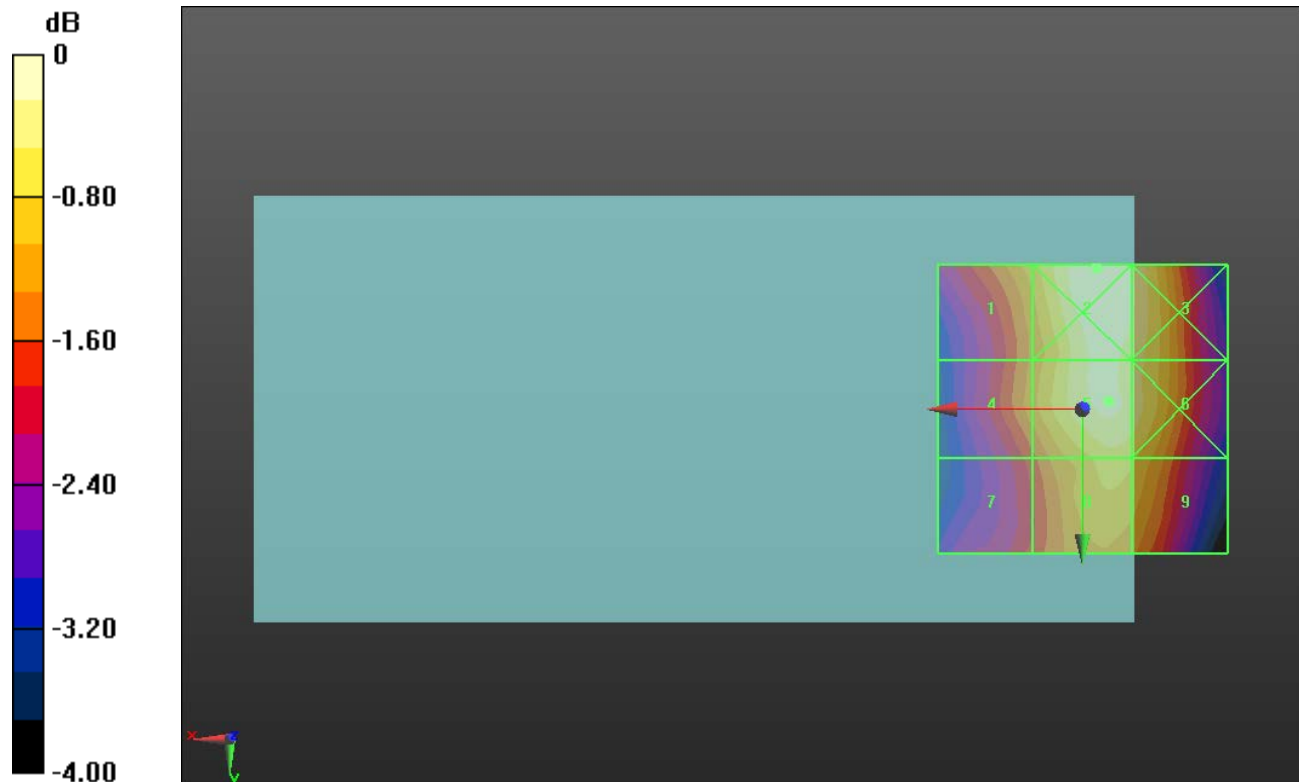
Applied MIF = 3.63 dB

RF audio interference level = 31.91 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 31.24 dBV/m	Grid 2 M4 32.1 dBV/m	Grid 3 M4 31.88 dBV/m
Grid 4 M4 30.96 dBV/m	Grid 5 M4 31.91 dBV/m	Grid 6 M4 31.75 dBV/m
Grid 7 M4 30.43 dBV/m	Grid 8 M4 31.49 dBV/m	Grid 9 M4 31.37 dBV/m



0 dB = 40.29 V/m = 32.10 dBV/m

HAC-RF Emission

Communication System: 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 Sn1433; Calibrated: 3/8/2017
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

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 = 6.896 V/m; Power Drift = -0.12 dB

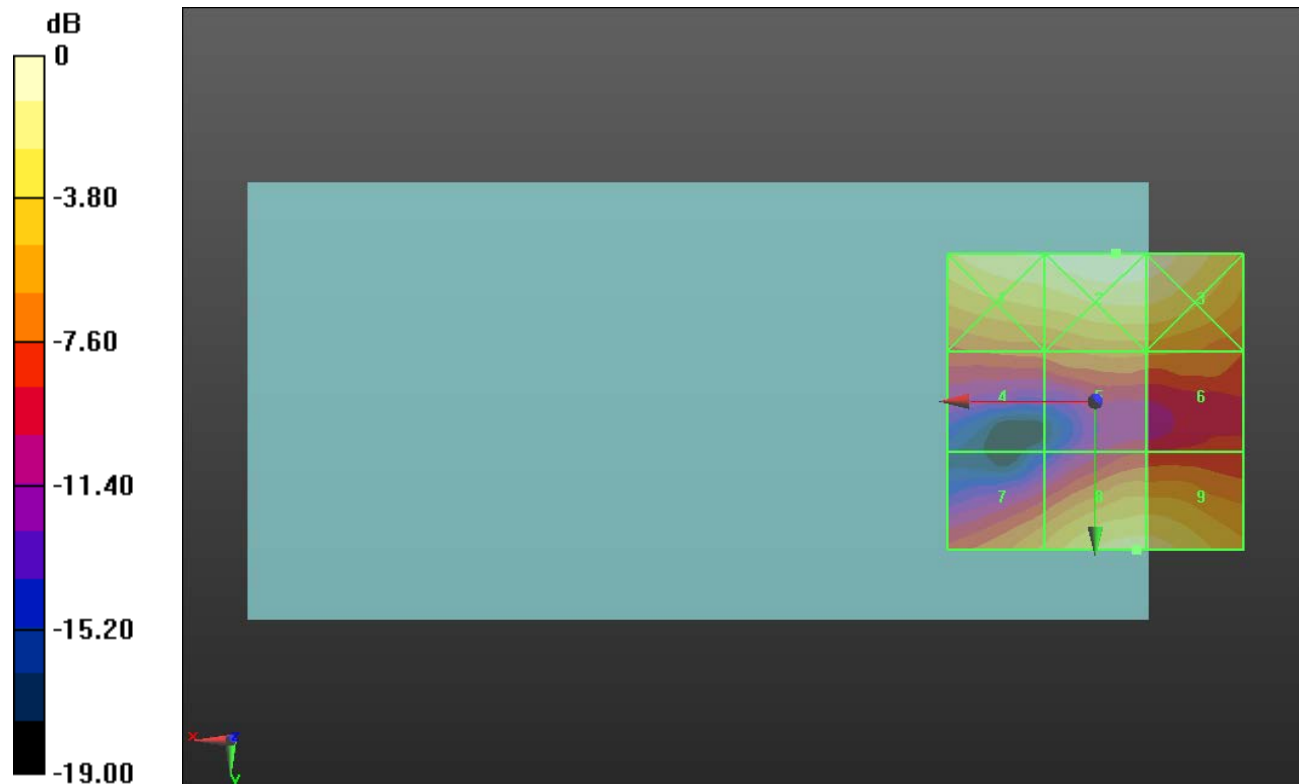
Applied MIF = 3.63 dB

RF audio interference level = 24.81 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 25.72 dBV/m	Grid 2 M4 26.63 dBV/m	Grid 3 M4 26.4 dBV/m
Grid 4 M4 19.69 dBV/m	Grid 5 M4 20.77 dBV/m	Grid 6 M4 20.71 dBV/m
Grid 7 M4 21.96 dBV/m	Grid 8 M4 24.81 dBV/m	Grid 9 M4 24.77 dBV/m



0 dB = 21.46 V/m = 26.63 dBV/m

HAC-RF Emission

Communication System: 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 Sn1433; Calibrated: 3/8/2017
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

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 = 7.123 V/m; Power Drift = 0.26 dB

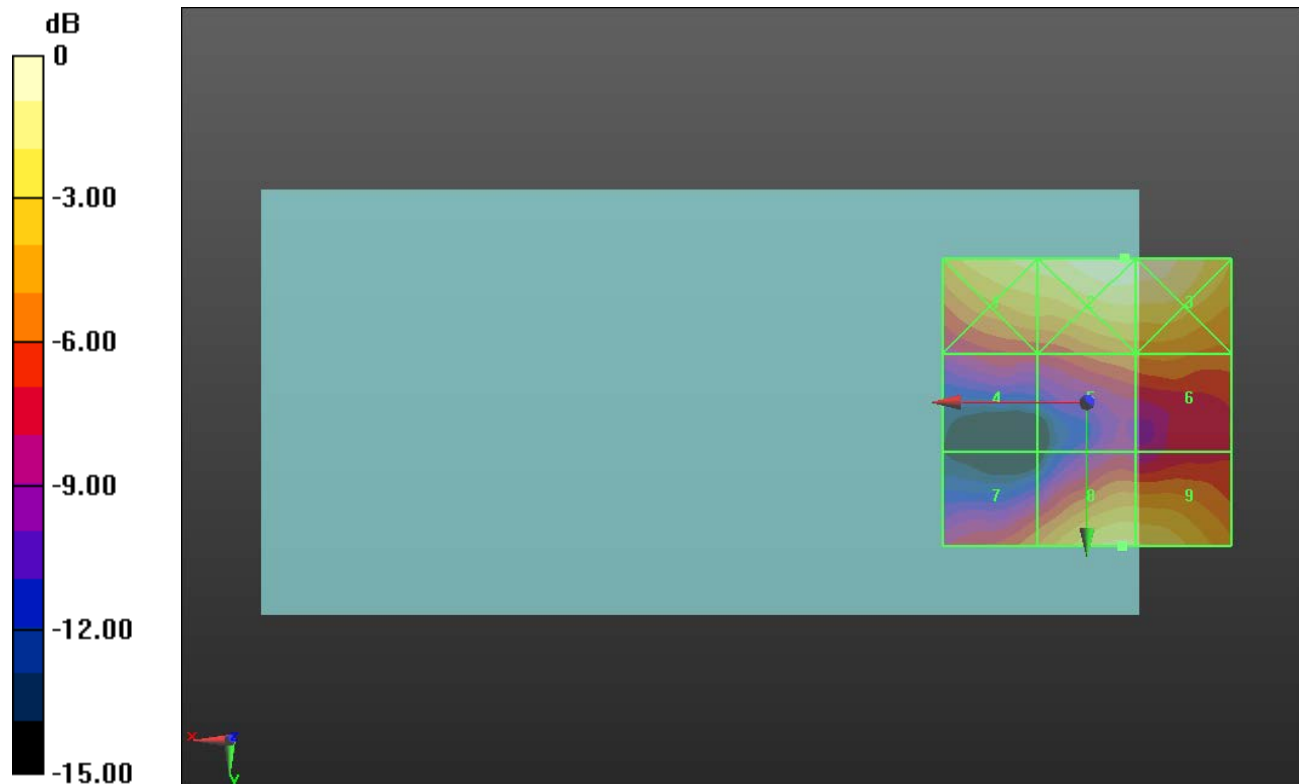
Applied MIF = 3.63 dB

RF audio interference level = 23.95 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 24.17 dBV/m	Grid 2 M4 25.57 dBV/m	Grid 3 M4 25.53 dBV/m
Grid 4 M4 18.58 dBV/m	Grid 5 M4 20.79 dBV/m	Grid 6 M4 20.95 dBV/m
Grid 7 M4 20.66 dBV/m	Grid 8 M4 23.95 dBV/m	Grid 9 M4 23.79 dBV/m



0 dB = 18.98 V/m = 25.57 dBV/m

HAC-RF Emission

Communication System: 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 Sn1433; Calibrated: 3/8/2017
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

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 = 8.645 V/m; Power Drift = -0.01 dB

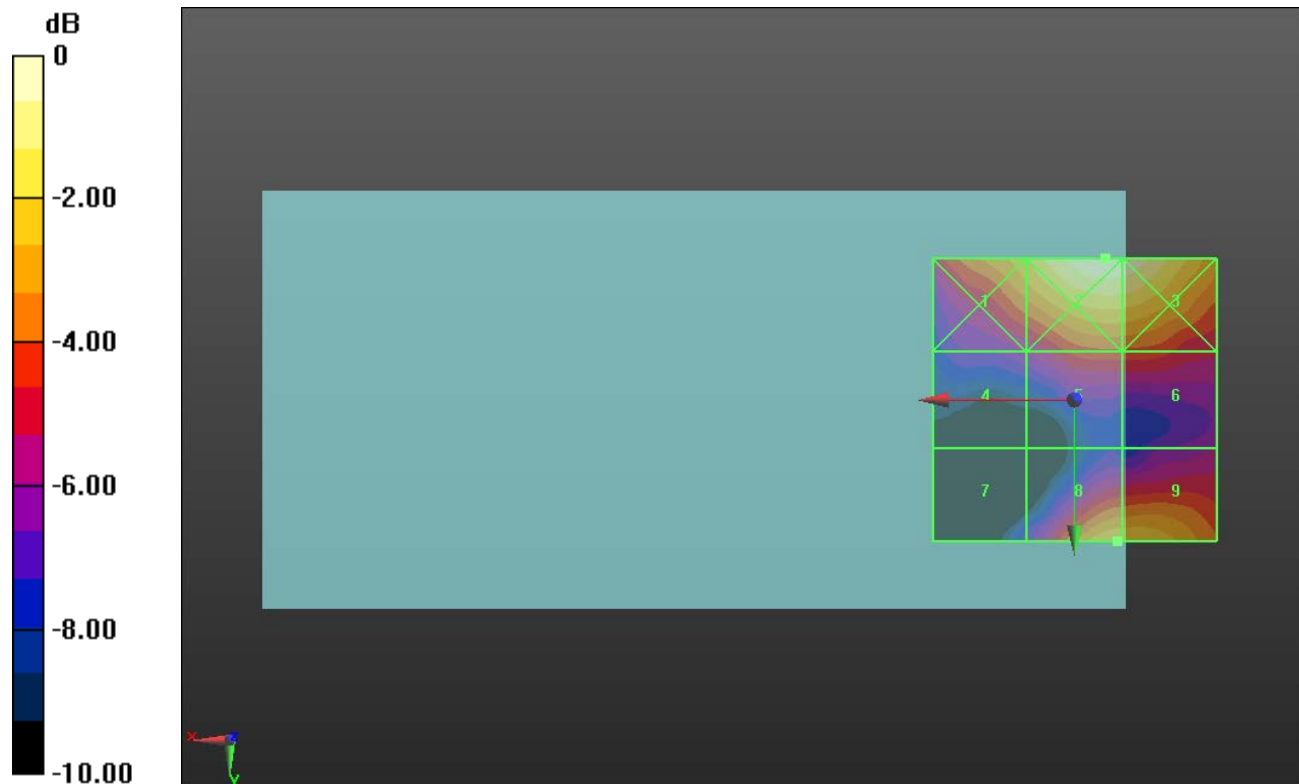
Applied MIF = 3.63 dB

RF audio interference level = 23.81 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 23.64 dBV/m	Grid 2 M4 25.68 dBV/m	Grid 3 M4 25.57 dBV/m
Grid 4 M4 19.72 dBV/m	Grid 5 M4 21.54 dBV/m	Grid 6 M4 21.52 dBV/m
Grid 7 M4 18.61 dBV/m	Grid 8 M4 23.81 dBV/m	Grid 9 M4 23.79 dBV/m



0 dB = 19.24 V/m = 25.68 dBV/m

HAC-RF Emission

Communication System: 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 Sn1433; Calibrated: 3/8/2017
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

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 = 7.711 V/m; Power Drift = 0.30 dB

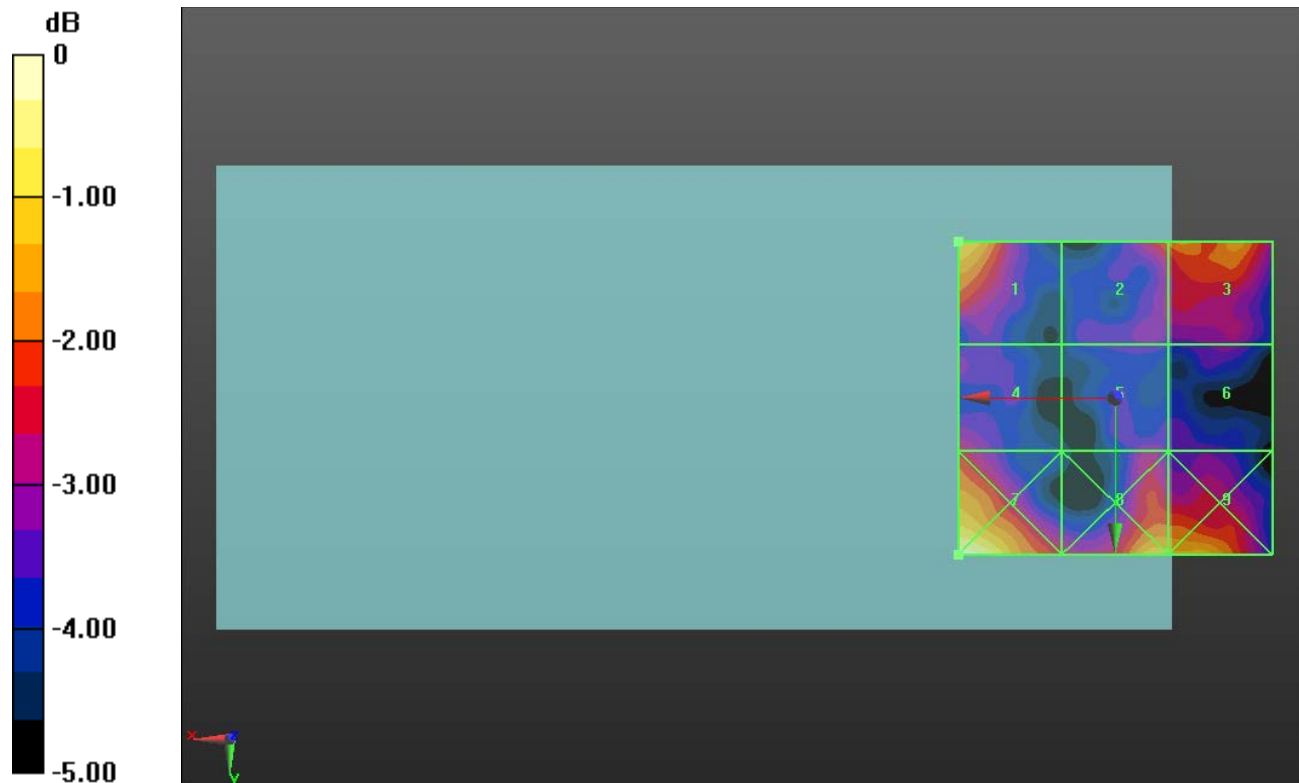
Applied MIF = -1.44 dB

RF audio interference level = 16.44 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 16.44 dBV/m	Grid 2 M4 15.7 dBV/m	Grid 3 M4 16.11 dBV/m
Grid 4 M4 15.02 dBV/m	Grid 5 M4 14.51 dBV/m	Grid 6 M4 14.37 dBV/m
Grid 7 M4 17.49 dBV/m	Grid 8 M4 16.46 dBV/m	Grid 9 M4 16.39 dBV/m



0 dB = 7.493 V/m = 17.49 dBV/m

HAC-RF Emission

Communication System: 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 Sn1433; Calibrated: 3/8/2017
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

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 = 8.548 V/m; Power Drift = -0.22 dB

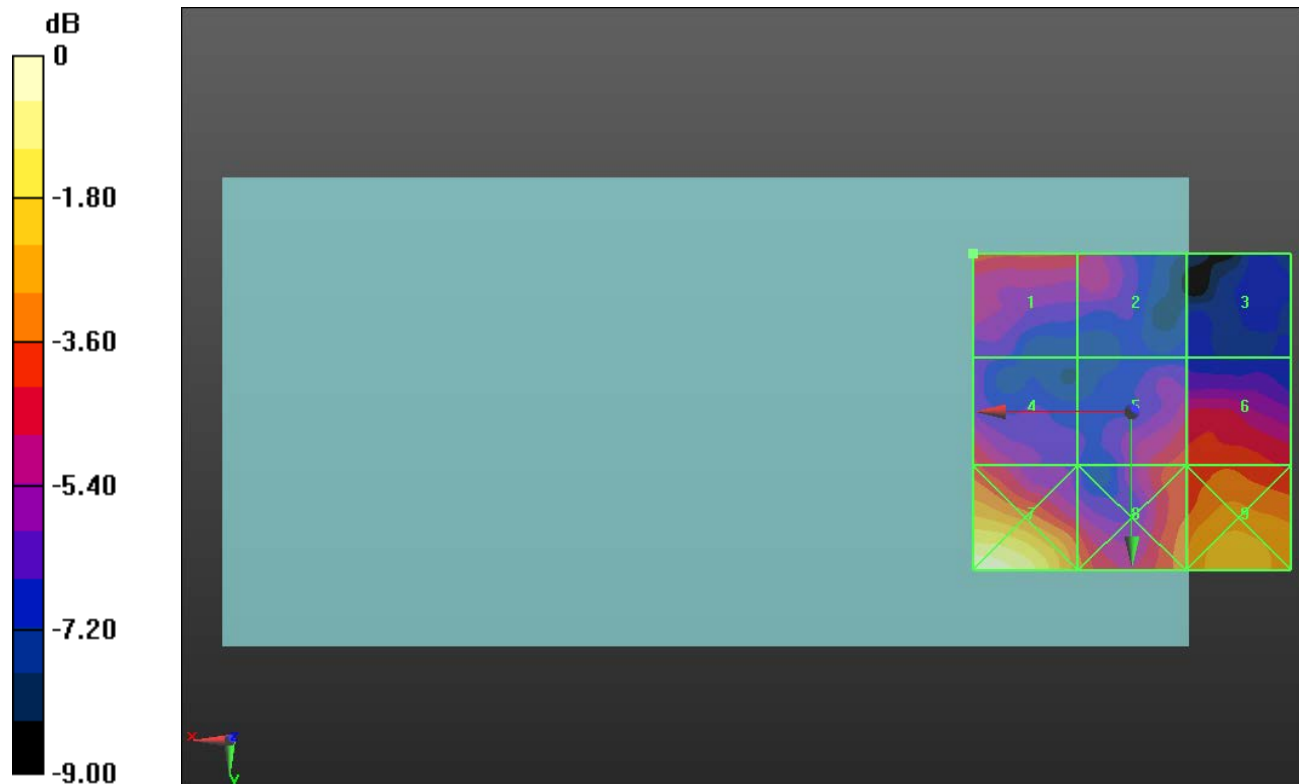
Applied MIF = -1.44 dB

RF audio interference level = 16.38 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 16.38 dBV/m	Grid 2 M4 15.5 dBV/m	Grid 3 M4 13.33 dBV/m
Grid 4 M4 16.06 dBV/m	Grid 5 M4 16.02 dBV/m	Grid 6 M4 16.34 dBV/m
Grid 7 M4 20.01 dBV/m	Grid 8 M4 17.01 dBV/m	Grid 9 M4 18.09 dBV/m



0 dB = 10.01 V/m = 20.01 dBV/m

HAC-RF Emission

Communication System: 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 Sn1433; Calibrated: 3/8/2017
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

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 = 7.939 V/m; Power Drift = 0.56 dB

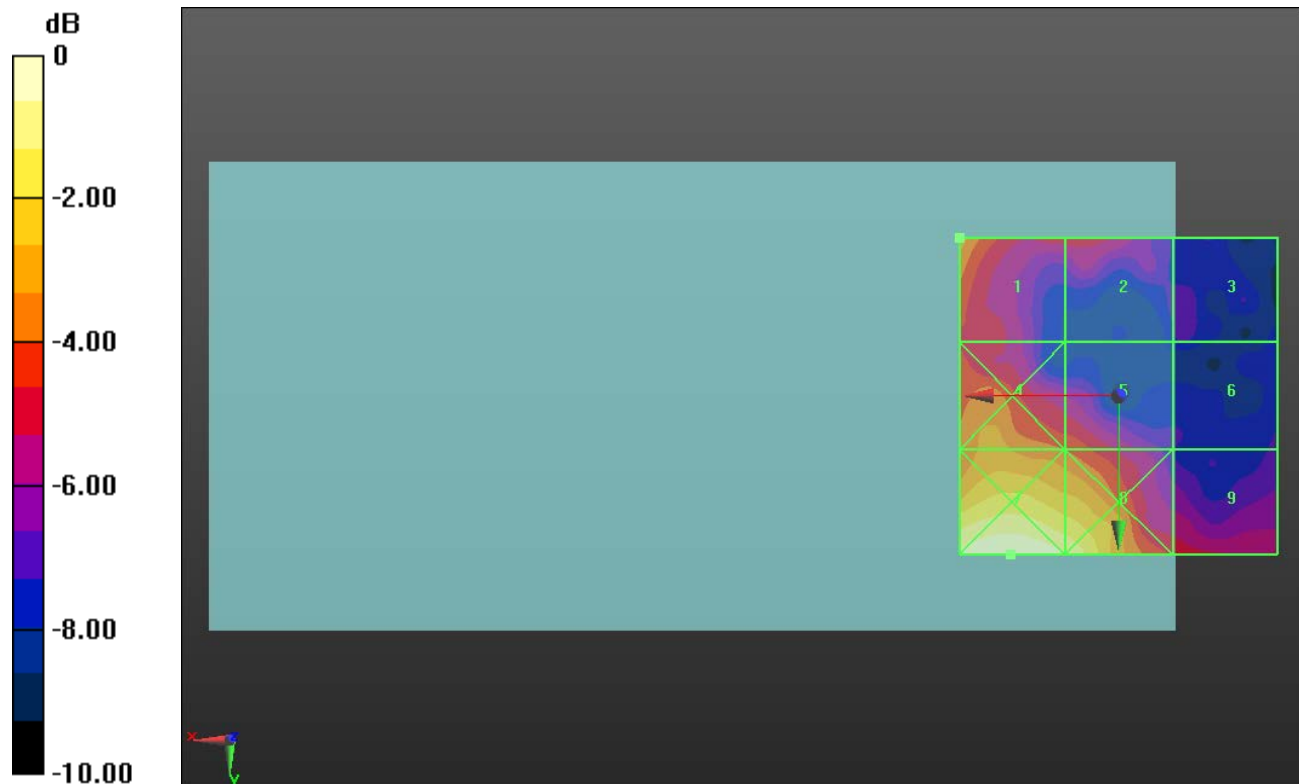
Applied MIF = -1.44 dB

RF audio interference level = 16.94 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 16.94 dBV/m	Grid 2 M4 14.94 dBV/m	Grid 3 M4 13.02 dBV/m
Grid 4 M4 16.64 dBV/m	Grid 5 M4 15.76 dBV/m	Grid 6 M4 12.79 dBV/m
Grid 7 M4 19.76 dBV/m	Grid 8 M4 19.12 dBV/m	Grid 9 M4 15.01 dBV/m



0 dB = 9.725 V/m = 19.76 dBV/m

HAC-RF Emission

Communication System: 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 Sn1433; Calibrated: 3/8/2017
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

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 = 9.700 V/m; Power Drift = 0.17 dB

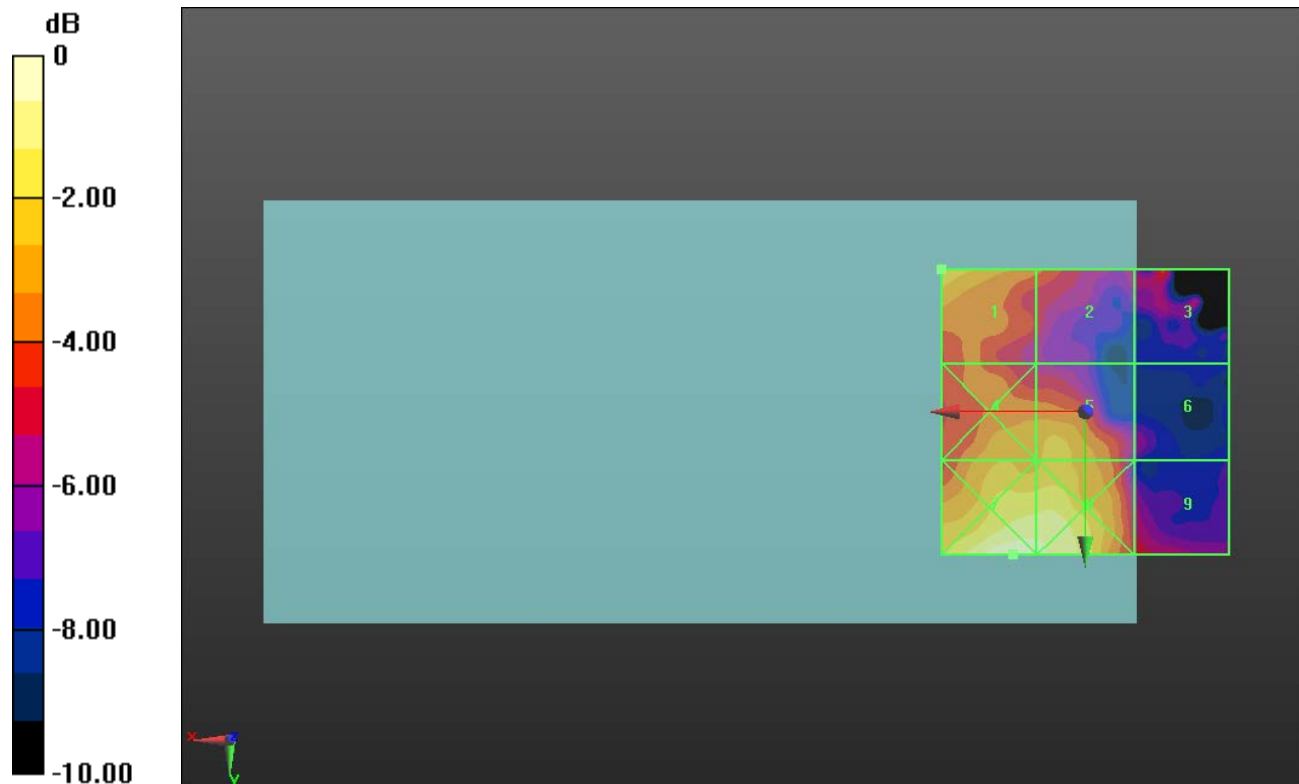
Applied MIF = -1.44 dB

RF audio interference level = 17.14 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 17.14 dBV/m	Grid 2 M4 15.38 dBV/m	Grid 3 M4 14.52 dBV/m
Grid 4 M4 16.35 dBV/m	Grid 5 M4 16.57 dBV/m	Grid 6 M4 12.94 dBV/m
Grid 7 M4 18.99 dBV/m	Grid 8 M4 18.73 dBV/m	Grid 9 M4 14.32 dBV/m



0 dB = 8.905 V/m = 18.99 dBV/m

HAC-RF Emission

Communication System: 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 Sn1433; Calibrated: 3/8/2017
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

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 = 8.427 V/m; Power Drift = -0.33 dB

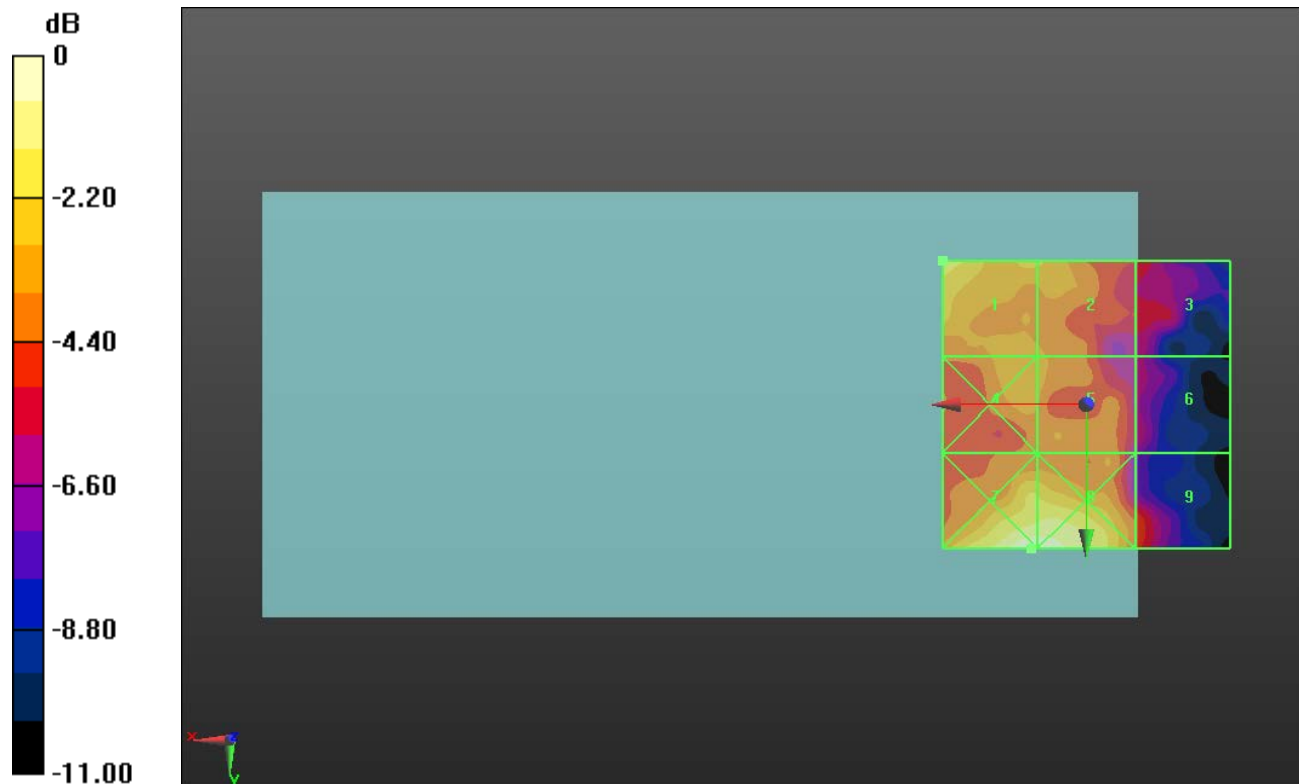
Applied MIF = -1.44 dB

RF audio interference level = 17.00 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 17 dBV/m	Grid 2 M4 15.83 dBV/m	Grid 3 M4 13.46 dBV/m
Grid 4 M4 15.51 dBV/m	Grid 5 M4 15.31 dBV/m	Grid 6 M4 12.73 dBV/m
Grid 7 M4 18.52 dBV/m	Grid 8 M4 18.48 dBV/m	Grid 9 M4 14.3 dBV/m



0 dB = 8.434 V/m = 18.52 dBV/m