

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: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 90.35 V/m; Power Drift = -0.17 dB

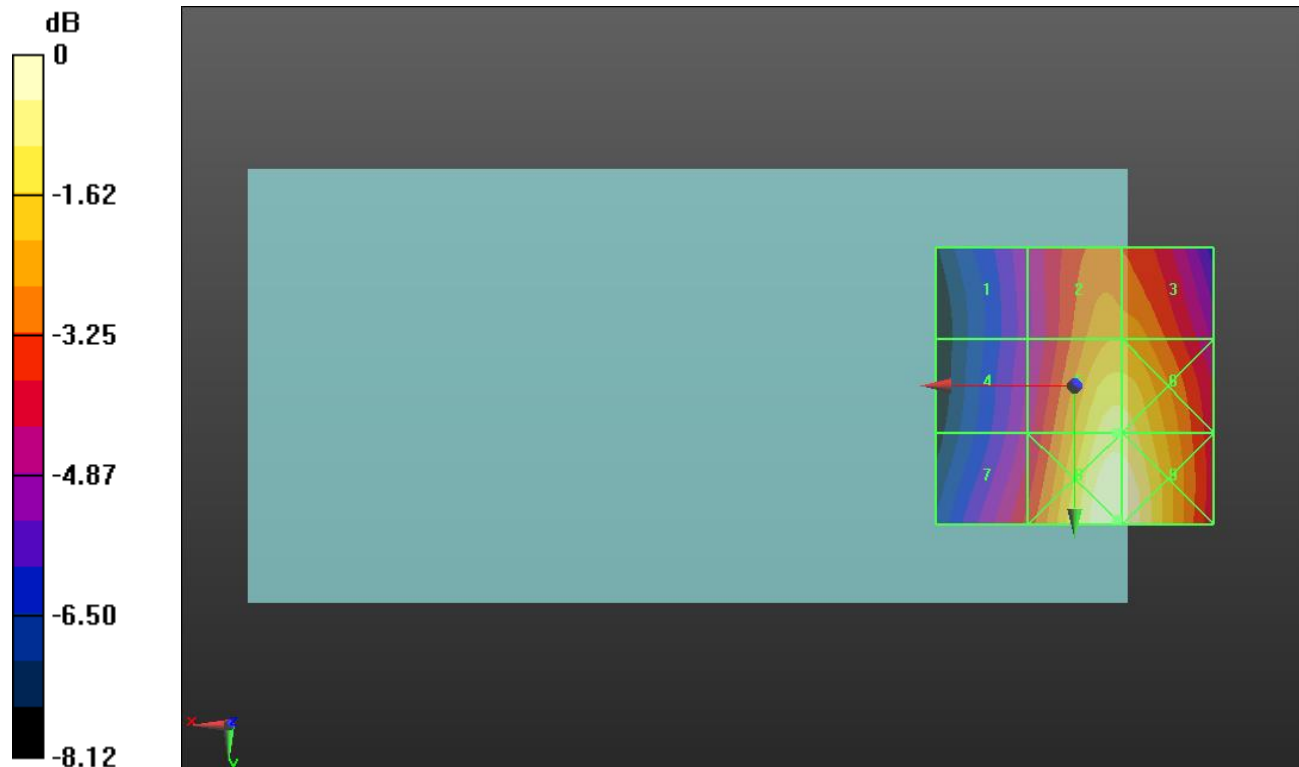
Applied MIF = 3.63 dB

RF audio interference level = 41.55 dBV/m

Emission category: M3

MIF scaled E-field

Grid 1 M4 37.4 dBV/m	Grid 2 M3 40.15 dBV/m	Grid 3 M3 40.13 dBV/m
Grid 4 M4 37.79 dBV/m	Grid 5 M3 41.55 dBV/m	Grid 6 M3 41.51 dBV/m
Grid 7 M4 38.72 dBV/m	Grid 8 M3 42.3 dBV/m	Grid 9 M3 42.26 dBV/m



0 dB = 130.4 V/m = 42.31 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: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 86.82 V/m; Power Drift = -0.06 dB

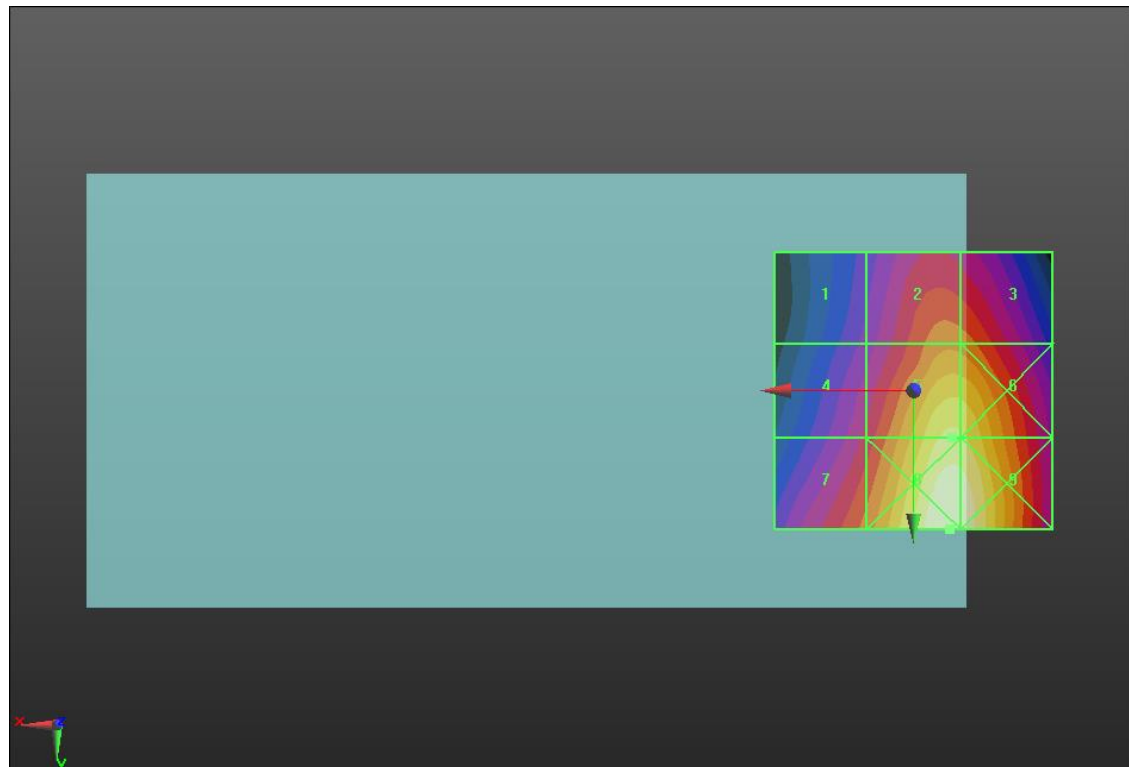
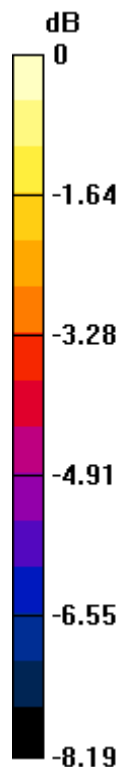
Applied MIF = 3.63 dB

RF audio interference level = 41.10 dBV/m

Emission category: M3

MIF scaled E-field

Grid 1 M4 36.84 dBV/m	Grid 2 M4 39.18 dBV/m	Grid 3 M4 39.08 dBV/m
Grid 4 M4 37.88 dBV/m	Grid 5 M3 41.1 dBV/m	Grid 6 M3 41.04 dBV/m
Grid 7 M4 39.02 dBV/m	Grid 8 M3 42.03 dBV/m	Grid 9 M3 41.93 dBV/m



0 dB = 126.3 V/m = 42.03 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: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 79.02 V/m; Power Drift = -0.05 dB

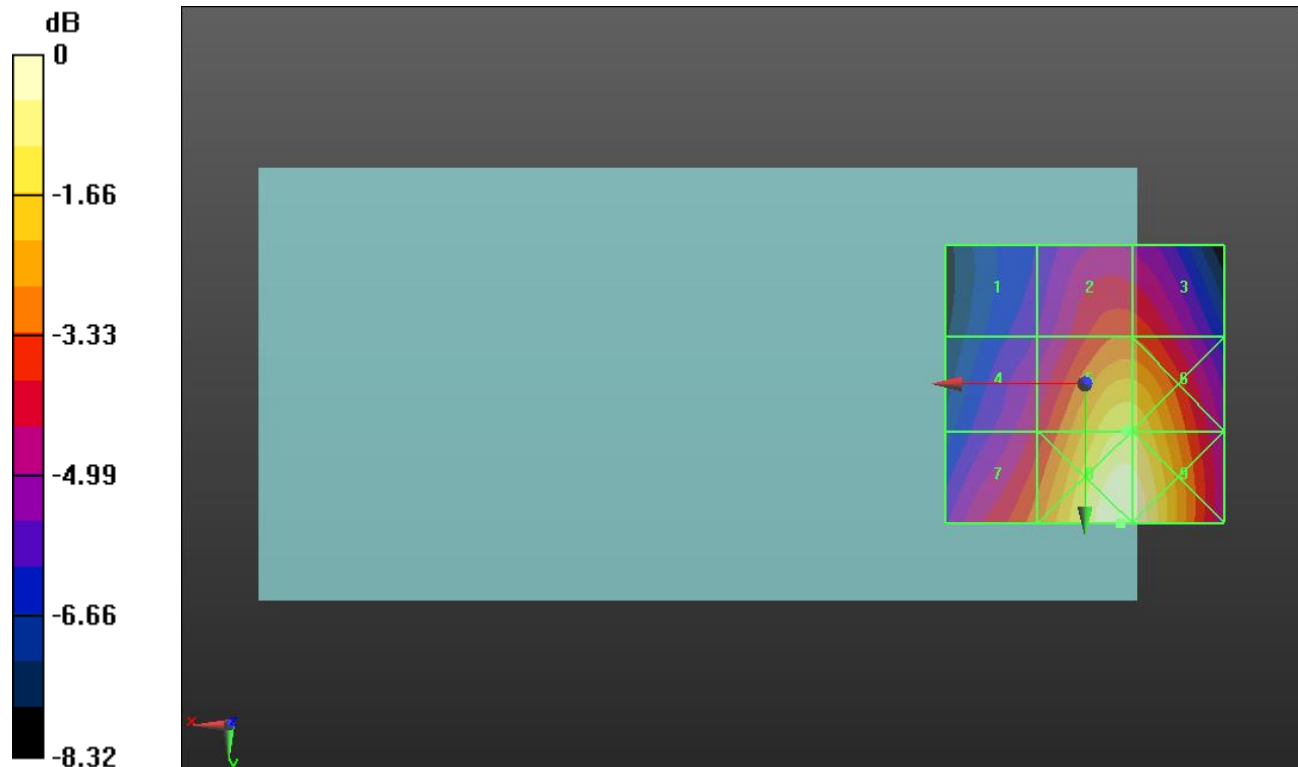
Applied MIF = 3.63 dB

RF audio interference level = 40.37 dBV/m

Emission category: M3

MIF scaled E-field

Grid 1 M4 36.02 dBV/m	Grid 2 M4 38.15 dBV/m	Grid 3 M4 38.11 dBV/m
Grid 4 M4 37.25 dBV/m	Grid 5 M3 40.37 dBV/m	Grid 6 M3 40.33 dBV/m
Grid 7 M4 38.51 dBV/m	Grid 8 M3 41.44 dBV/m	Grid 9 M3 41.35 dBV/m



0 dB = 118.1 V/m = 41.44 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: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 44.31 V/m; Power Drift = -0.21 dB

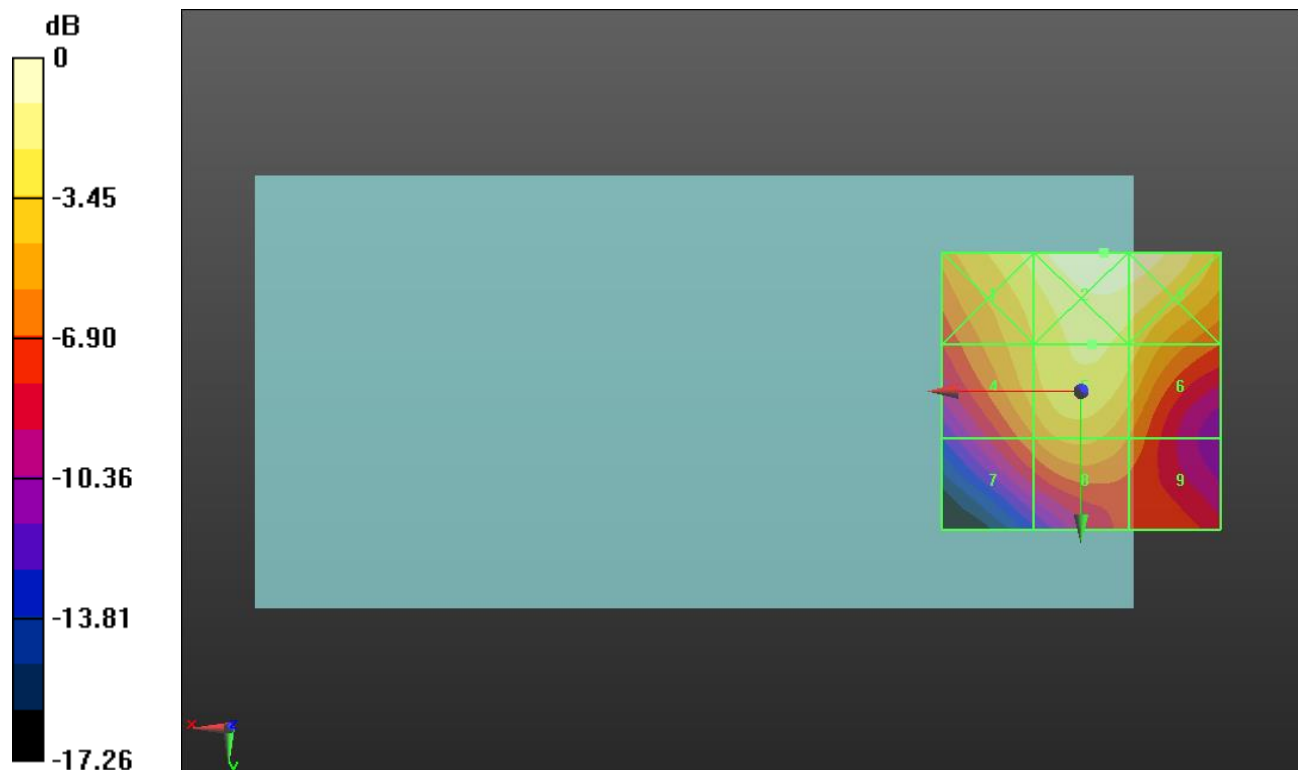
Applied MIF = 3.63 dB

RF audio interference level = 32.40 dBV/m

Emission category: M3

MIF scaled E-field

Grid 1 M3 32.79 dBV/m	Grid 2 M3 34.49 dBV/m	Grid 3 M3 34.3 dBV/m
Grid 4 M3 31.05 dBV/m	Grid 5 M3 32.4 dBV/m	Grid 6 M3 31.65 dBV/m
Grid 7 M4 28.65 dBV/m	Grid 8 M3 30.23 dBV/m	Grid 9 M4 28.69 dBV/m



0 dB = 53.05 V/m = 34.49 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: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 41.44 V/m; Power Drift = -0.03 dB

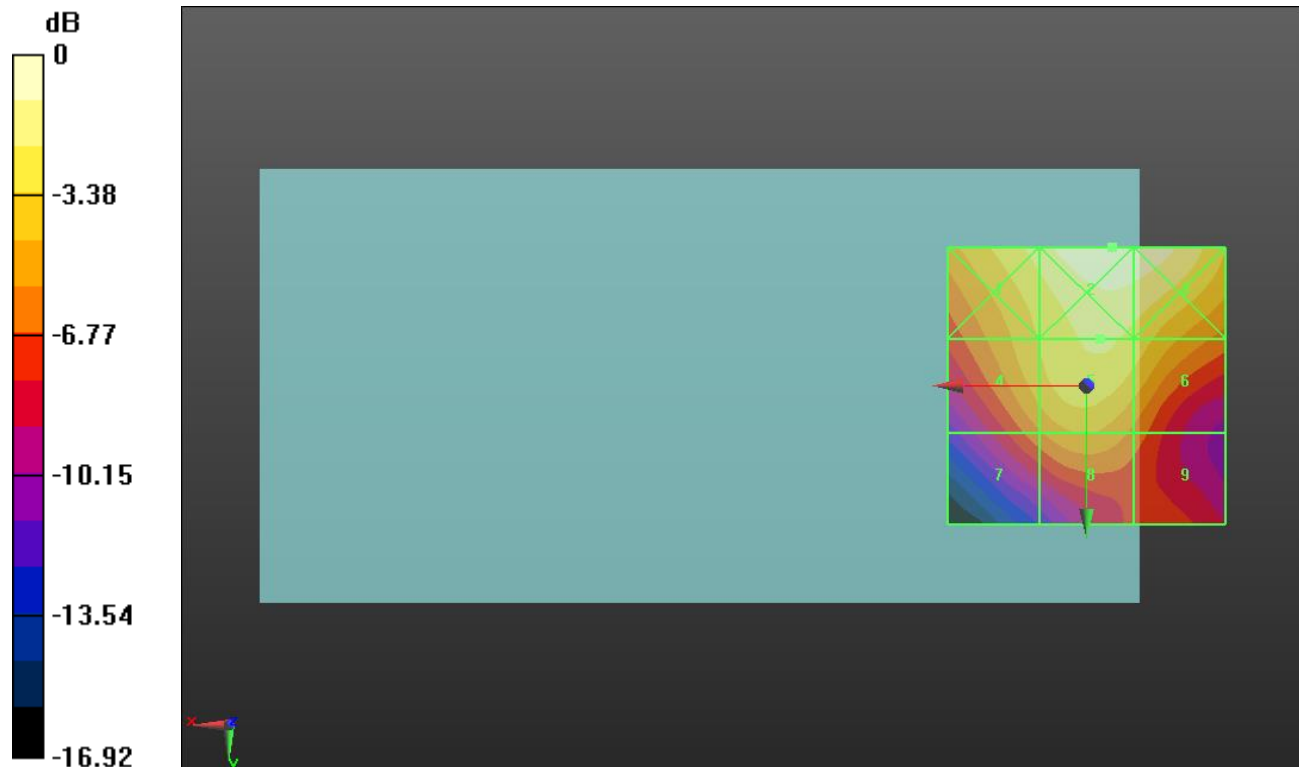
Applied MIF = 3.63 dB

RF audio interference level = 32.38 dBV/m

Emission category: M3

MIF scaled E-field

Grid 1 M3 32.78 dBV/m	Grid 2 M3 34.46 dBV/m	Grid 3 M3 34.31 dBV/m
Grid 4 M3 31.16 dBV/m	Grid 5 M3 32.38 dBV/m	Grid 6 M3 31.82 dBV/m
Grid 7 M4 28.64 dBV/m	Grid 8 M4 29.99 dBV/m	Grid 9 M4 28.47 dBV/m



0 dB = 52.86 V/m = 34.46 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: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 39.14 V/m; Power Drift = -0.05 dB

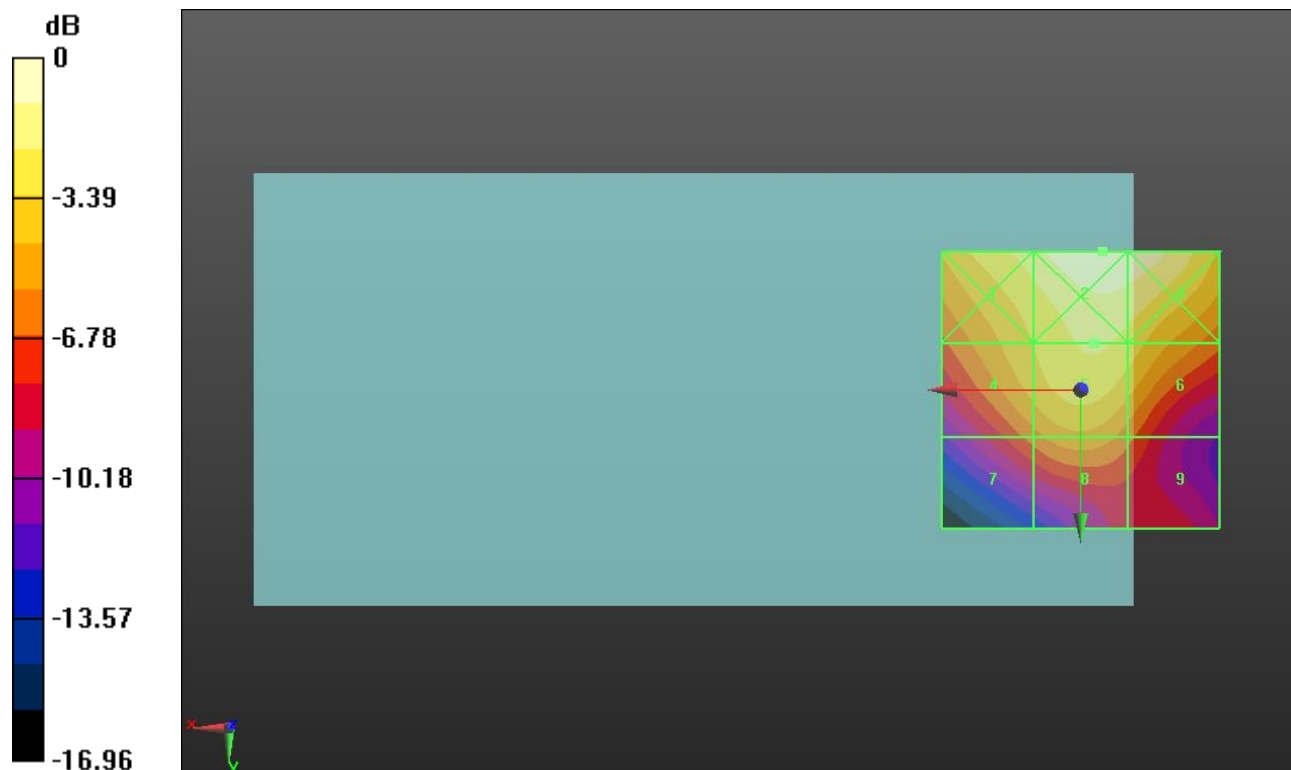
Applied MIF = 3.63 dB

RF audio interference level = 32.37 dBV/m

Emission category: M3

MIF scaled E-field

Grid 1 M3 32.92 dBV/m	Grid 2 M3 34.47 dBV/m	Grid 3 M3 34.25 dBV/m
Grid 4 M3 31.12 dBV/m	Grid 5 M3 32.37 dBV/m	Grid 6 M3 31.76 dBV/m
Grid 7 M4 28.29 dBV/m	Grid 8 M4 29.64 dBV/m	Grid 9 M4 28.09 dBV/m



0 dB = 52.91 V/m = 34.47 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: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.10 (7164)

LTE Band 41 E-Field measurement/LTE TDD_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 = 25.61 V/m; Power Drift = -0.11 dB

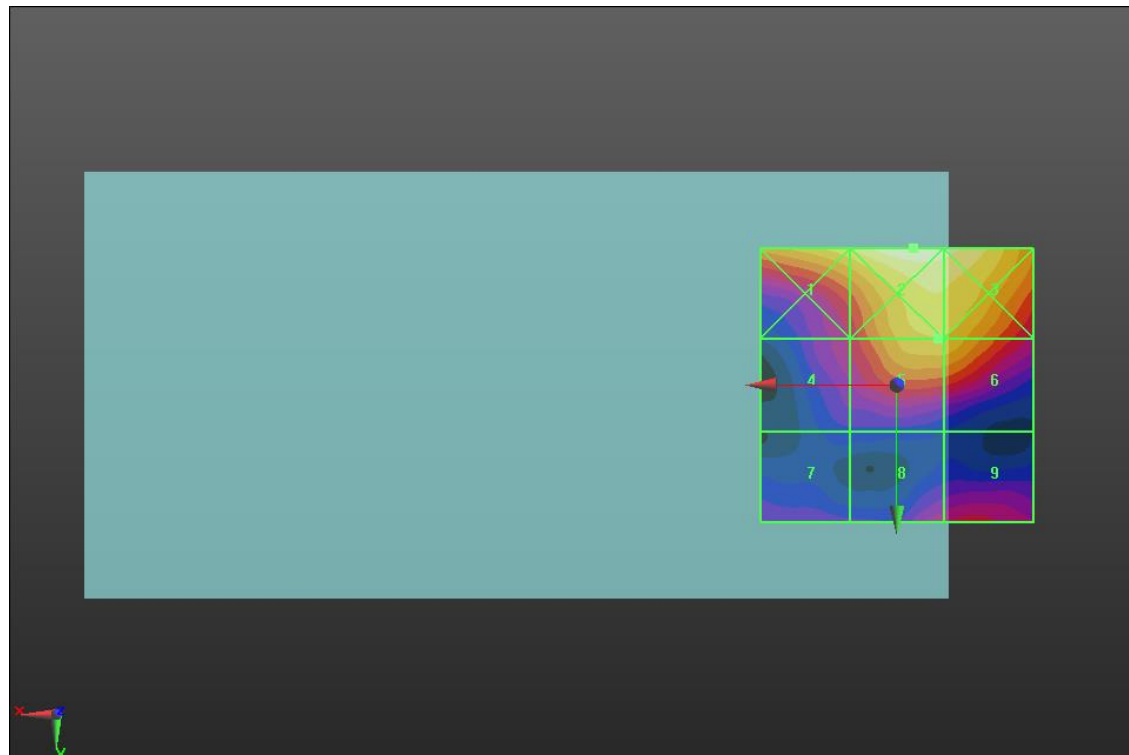
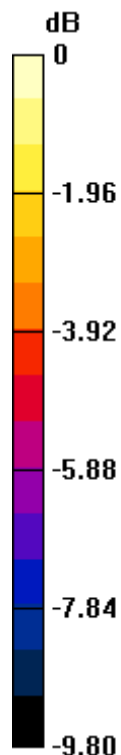
Applied MIF = -1.44 dB

RF audio interference level = 25.82 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 26.56 dBV/m	Grid 2 M4 27.81 dBV/m	Grid 3 M4 27.48 dBV/m
Grid 4 M4 22.75 dBV/m	Grid 5 M4 25.82 dBV/m	Grid 6 M4 25.78 dBV/m
Grid 7 M4 21.39 dBV/m	Grid 8 M4 22.56 dBV/m	Grid 9 M4 22.95 dBV/m



0 dB = 24.57 V/m = 27.81 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: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.10 (7164)

LTE Band 41 E-Field measurement/LTE TDD_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 = 33.20 V/m; Power Drift = -0.06 dB

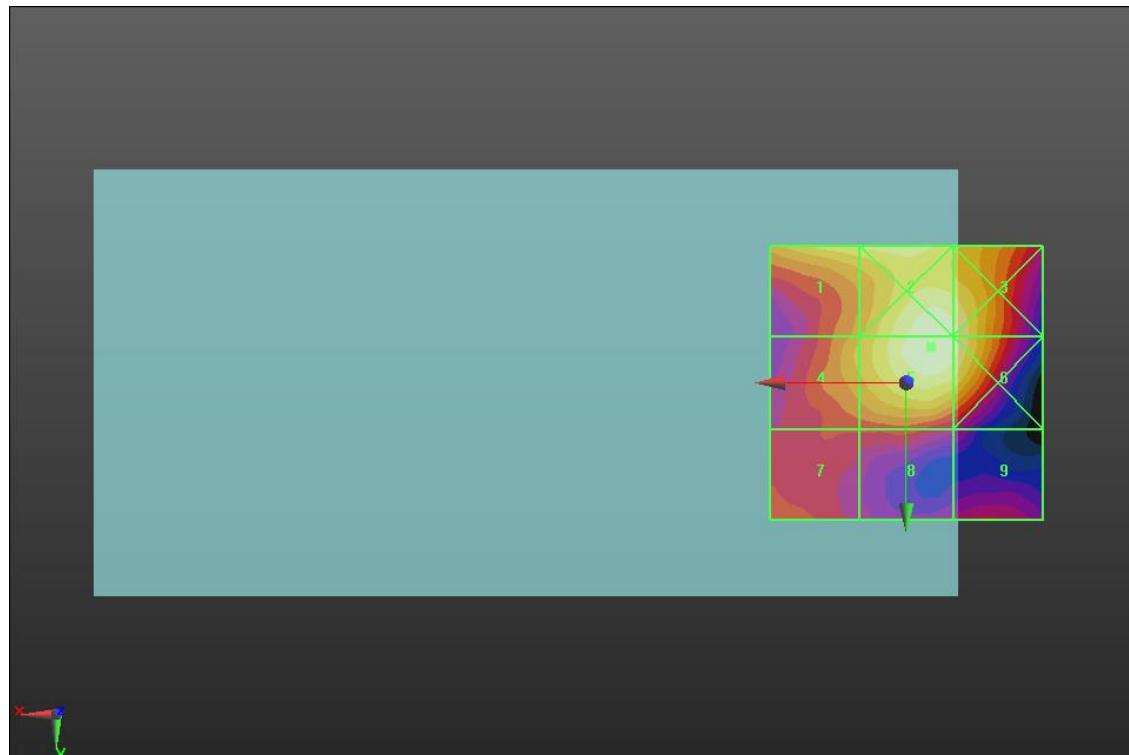
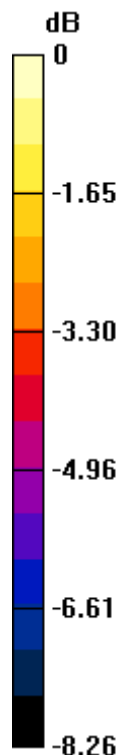
Applied MIF = -1.44 dB

RF audio interference level = 26.31 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 25.33 dBV/m	Grid 2 M4 26.18 dBV/m	Grid 3 M4 25.92 dBV/m
Grid 4 M4 24.31 dBV/m	Grid 5 M4 26.31 dBV/m	Grid 6 M4 25.94 dBV/m
Grid 7 M4 22.68 dBV/m	Grid 8 M4 22.8 dBV/m	Grid 9 M4 22.1 dBV/m



0 dB = 20.67 V/m = 26.31 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: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.10 (7164)

LTE Band 41 E-Field measurement/LTE TDD_16QAM_RB 1/50_ch 40620/Hearing Aid Compatibility Test (101x101x1):

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 37.12 V/m; Power Drift = 0.14 dB

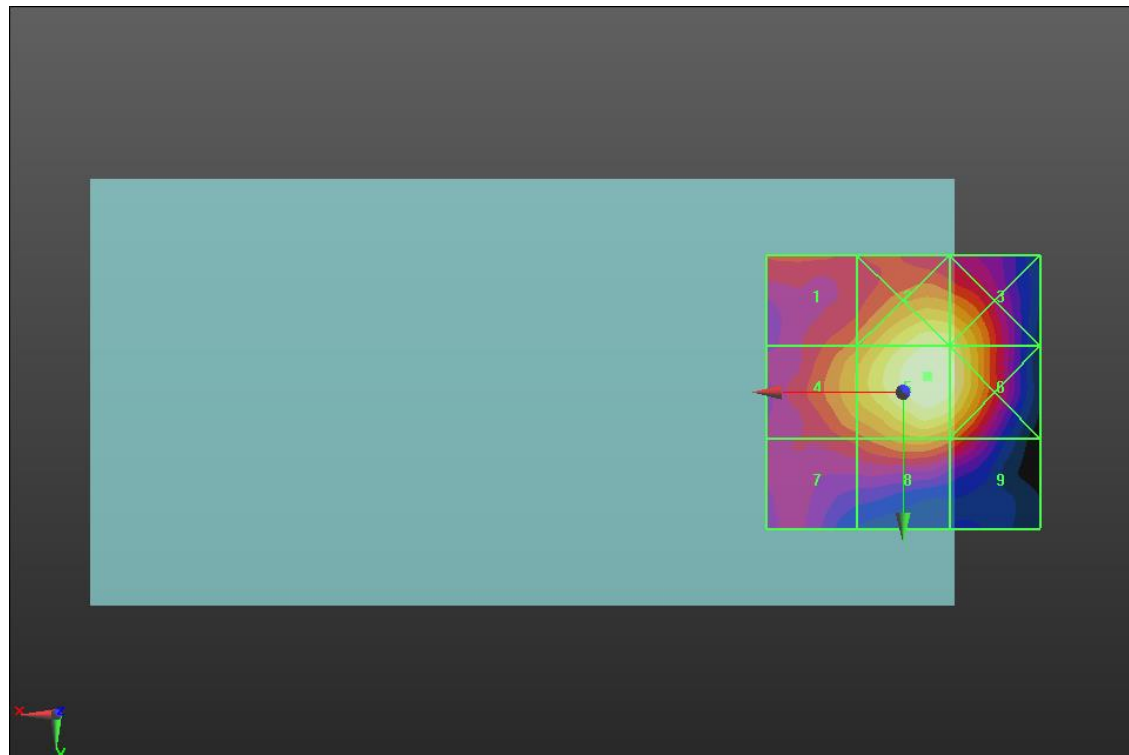
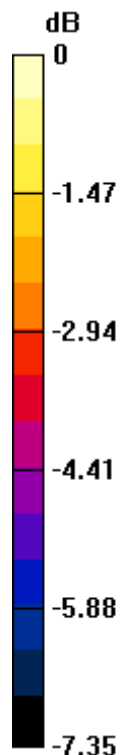
Applied MIF = -1.44 dB

RF audio interference level = 26.90 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 24.3 dBV/m	Grid 2 M4 26.42 dBV/m	Grid 3 M4 26.25 dBV/m
Grid 4 M4 25.04 dBV/m	Grid 5 M4 26.9 dBV/m	Grid 6 M4 26.64 dBV/m
Grid 7 M4 23.73 dBV/m	Grid 8 M4 24.85 dBV/m	Grid 9 M4 24.23 dBV/m



0 dB = 22.14 V/m = 26.90 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: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.10 (7164)

LTE Band 41 E-Field measurement/LTE TDD_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 = 33.80 V/m; Power Drift = 0.03 dB

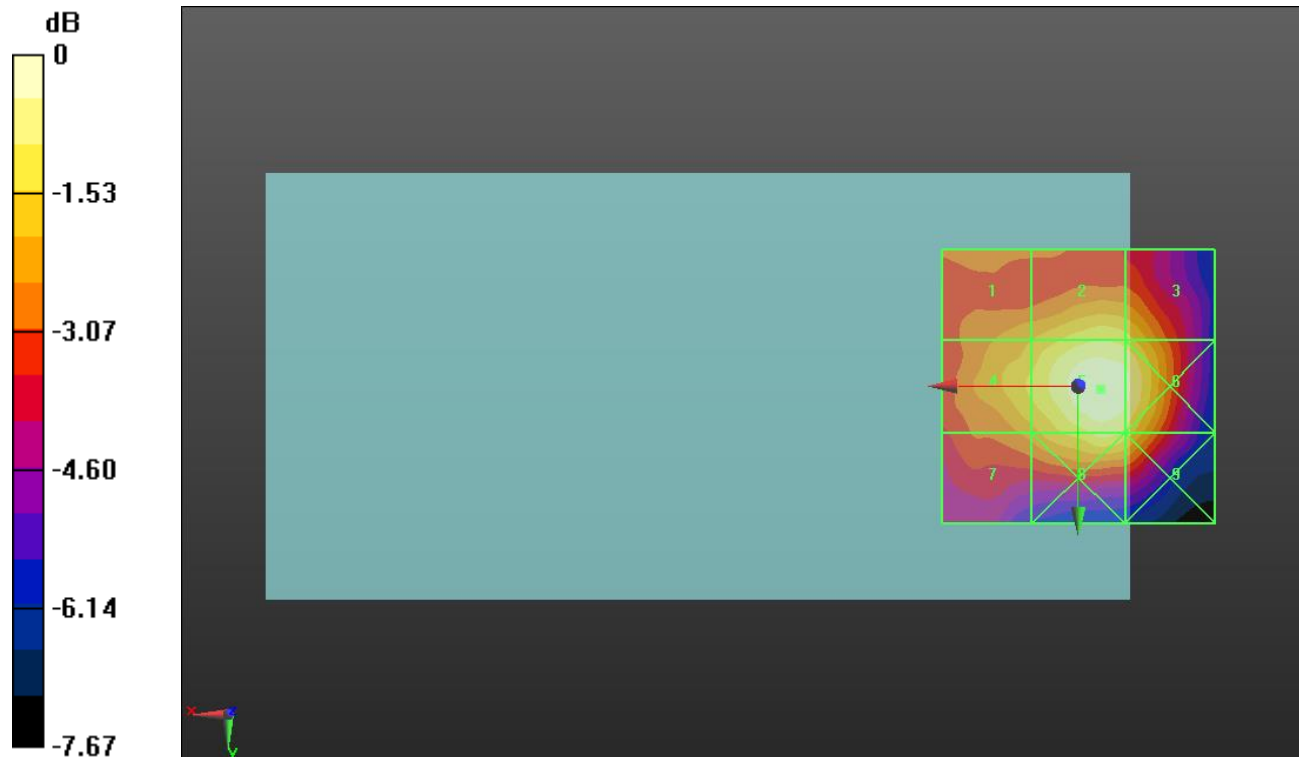
Applied MIF = -1.44 dB

RF audio interference level = 26.09 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 24.05 dBV/m	Grid 2 M4 25.06 dBV/m	Grid 3 M4 24.84 dBV/m
Grid 4 M4 24.69 dBV/m	Grid 5 M4 26.09 dBV/m	Grid 6 M4 25.78 dBV/m
Grid 7 M4 23.82 dBV/m	Grid 8 M4 25.29 dBV/m	Grid 9 M4 24.92 dBV/m



0 dB = 20.16 V/m = 26.09 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: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.10 (7164)

LTE Band 41 E-Field measurement/LTE TDD_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 = 28.49 V/m; Power Drift = -0.18 dB

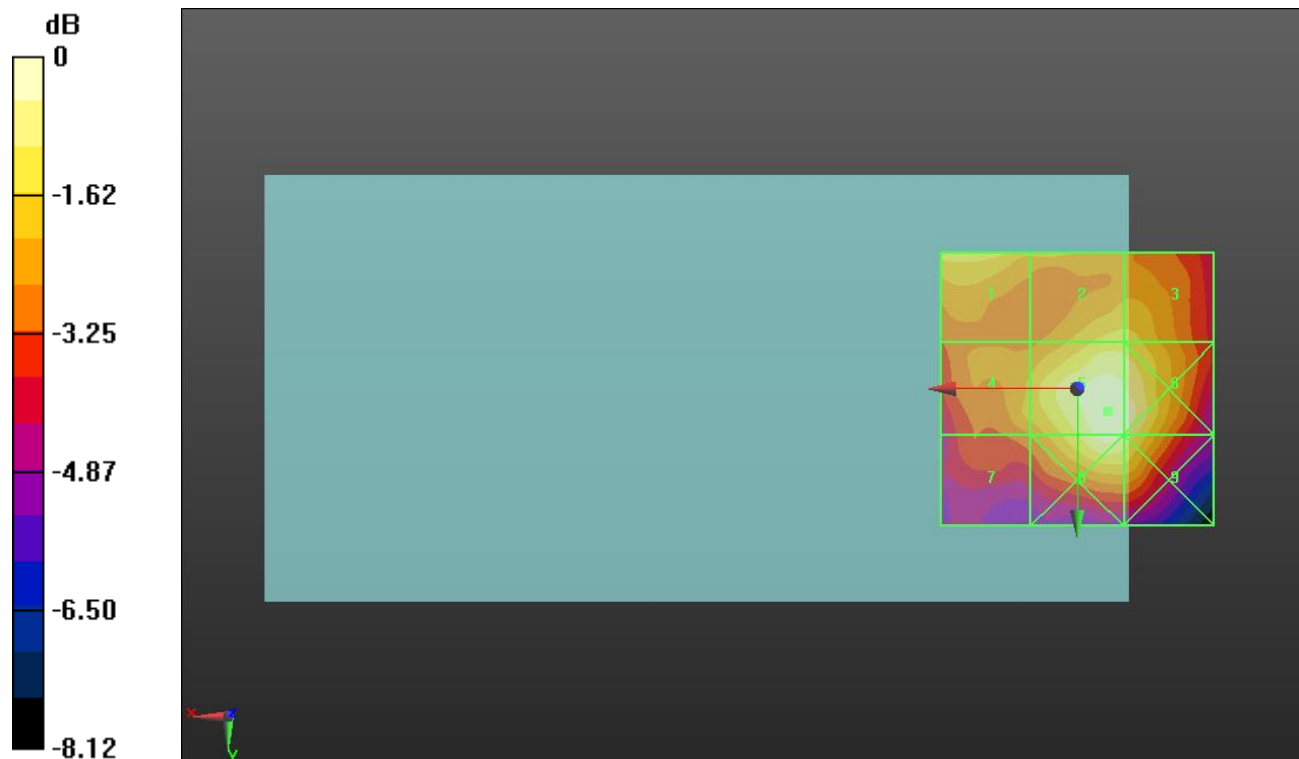
Applied MIF = -1.44 dB

RF audio interference level = 24.94 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 23.65 dBV/m	Grid 2 M4 23.62 dBV/m	Grid 3 M4 23.61 dBV/m
Grid 4 M4 23.01 dBV/m	Grid 5 M4 24.94 dBV/m	Grid 6 M4 24.77 dBV/m
Grid 7 M4 22.24 dBV/m	Grid 8 M4 24.62 dBV/m	Grid 9 M4 24.32 dBV/m



0 dB = 17.66 V/m = 24.94 dBV/m

HAC-RF Emission

Communication System: UID 10077, IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps); Frequency: 2422 MHz; Duty Cycle: 1:12.5893

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4041; ConvF(1, 1, 1); Calibrated: 3/22/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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)

802.11g E-Field measurement/IEEE 802.11g_OFDM 54 Mbps_ch 3/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 = 19.59 V/m; Power Drift = -0.14 dB

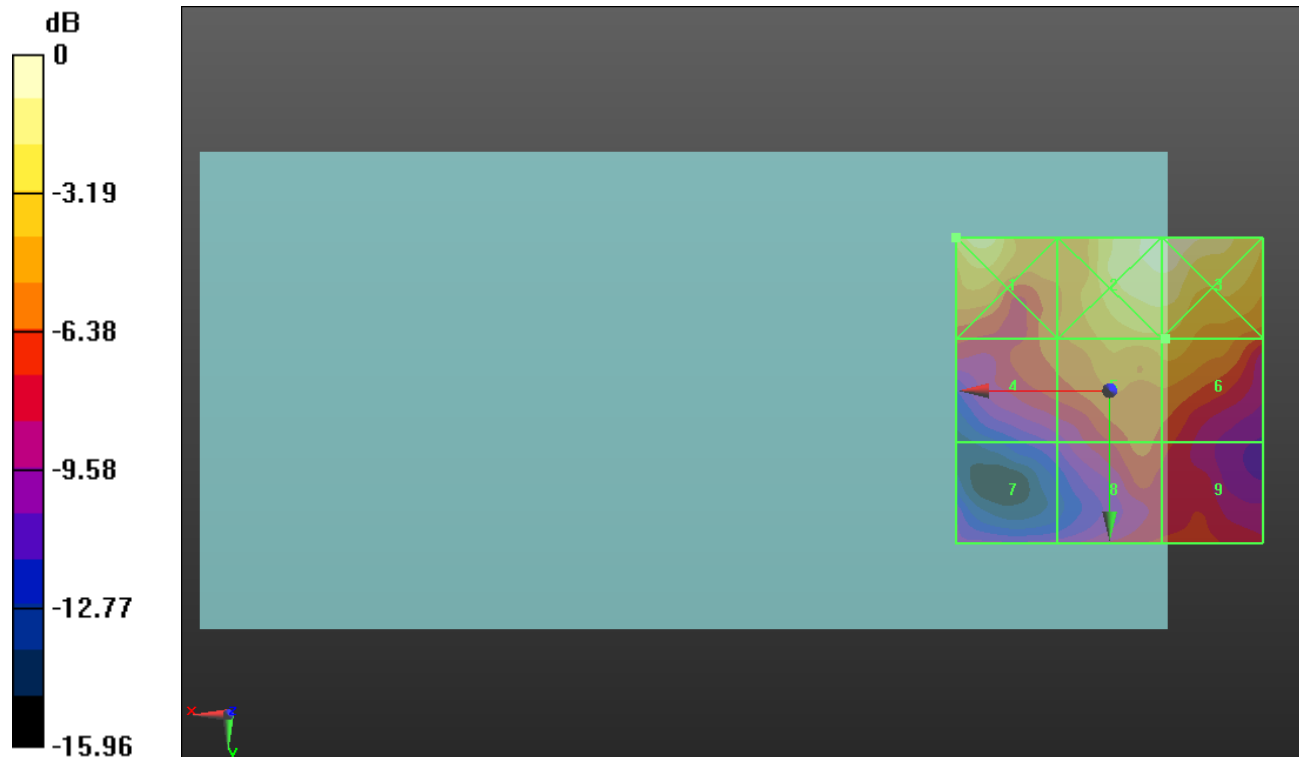
Applied MIF = 0.12 dB

RF audio interference level = 25.00 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 26.95 dBV/m	Grid 2 M4 28.3 dBV/m	Grid 3 M4 28.43 dBV/m
Grid 4 M4 22.94 dBV/m	Grid 5 M4 24.99 dBV/m	Grid 6 M4 25 dBV/m
Grid 7 M4 18.61 dBV/m	Grid 8 M4 22.38 dBV/m	Grid 9 M4 21.58 dBV/m



0 dB = 26.39 V/m = 28.43 dBV/m

HAC-RF Emission

Communication System: UID 10077, IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps); Frequency: 2437 MHz; Duty Cycle: 1:12.5893

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4041; ConvF(1, 1, 1); Calibrated: 3/22/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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)

802.11g E-Field measurement/IEEE 802.11g_OFDM 54 Mbps_ch 6/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 = 18.17 V/m; Power Drift = 0.28 dB

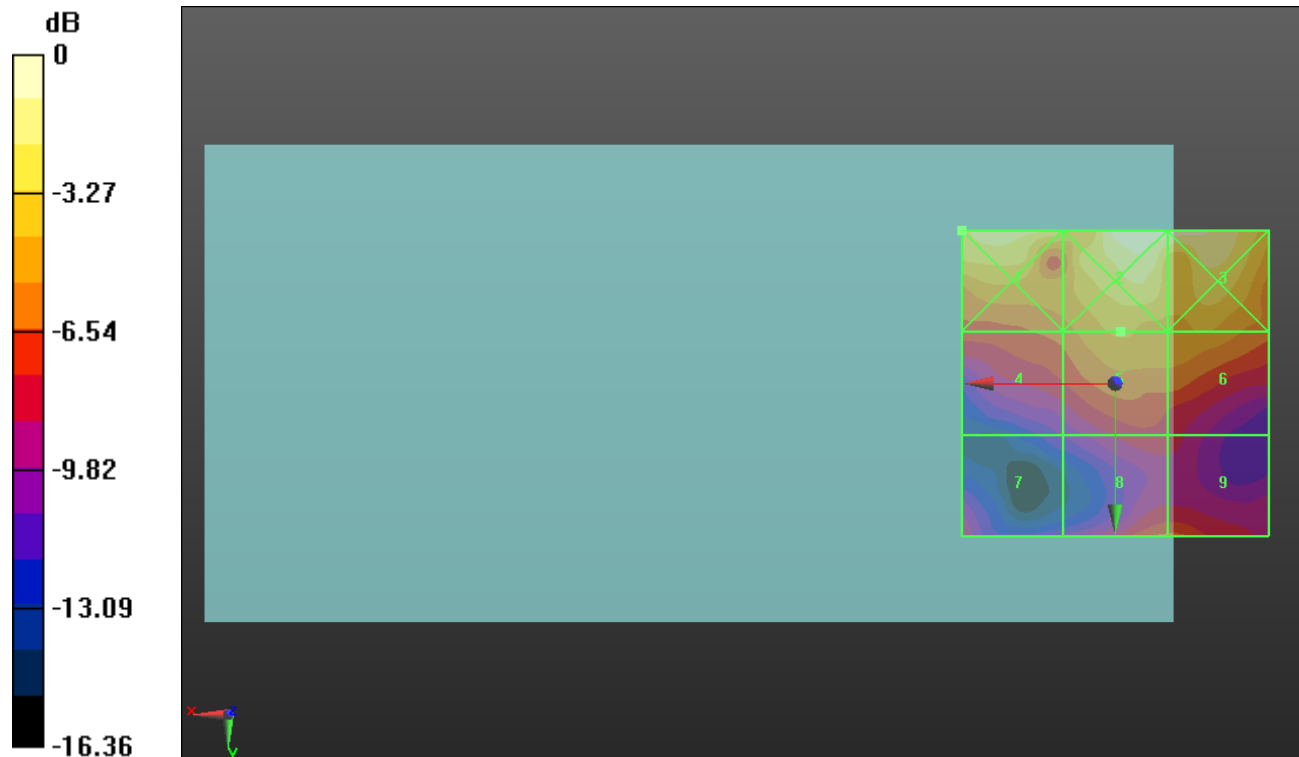
Applied MIF = 0.12 dB

RF audio interference level = 24.43 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 27.17 dBV/m	Grid 2 M4 28.57 dBV/m	Grid 3 M4 28.46 dBV/m
Grid 4 M4 22.67 dBV/m	Grid 5 M4 24.43 dBV/m	Grid 6 M4 24.28 dBV/m
Grid 7 M4 20.44 dBV/m	Grid 8 M4 22.51 dBV/m	Grid 9 M4 22.53 dBV/m



0 dB = 26.83 V/m = 28.57 dBV/m

HAC-RF Emission

Communication System: UID 10077, IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps); Frequency: 2452 MHz; Duty Cycle: 1:12.5893

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4041; ConvF(1, 1, 1); Calibrated: 3/22/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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)

802.11g E-Field measurement/IEEE 802.11g_OFDM 54 Mbps_ch 9/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 = 18.56 V/m; Power Drift = 0.26 dB

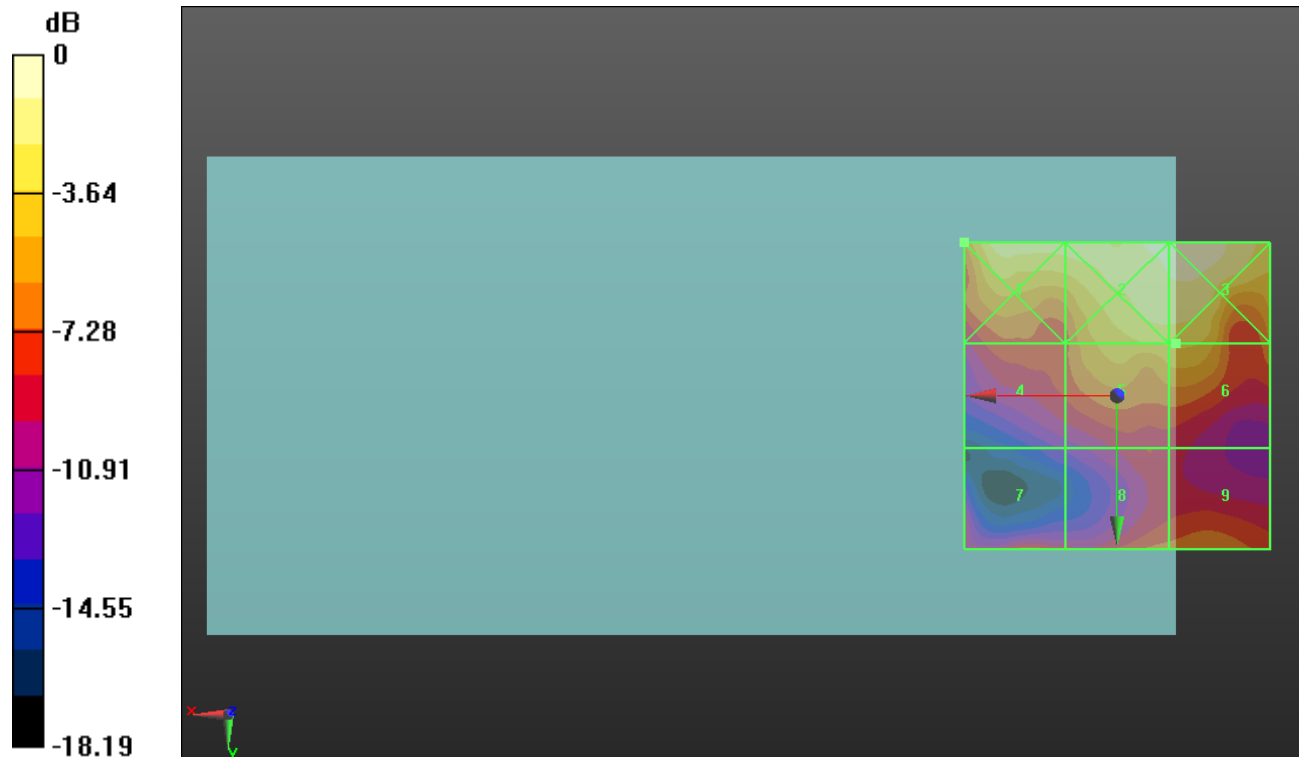
Applied MIF = 0.12 dB

RF audio interference level = 25.66 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 27.81 dBV/m	Grid 2 M4 28.92 dBV/m	Grid 3 M4 29.08 dBV/m
Grid 4 M4 21.59 dBV/m	Grid 5 M4 25.63 dBV/m	Grid 6 M4 25.66 dBV/m
Grid 7 M4 21.45 dBV/m	Grid 8 M4 22.39 dBV/m	Grid 9 M4 23.13 dBV/m



0 dB = 28.43 V/m = 29.08 dBV/m

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: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 28.45 V/m; Power Drift = -0.57 dB

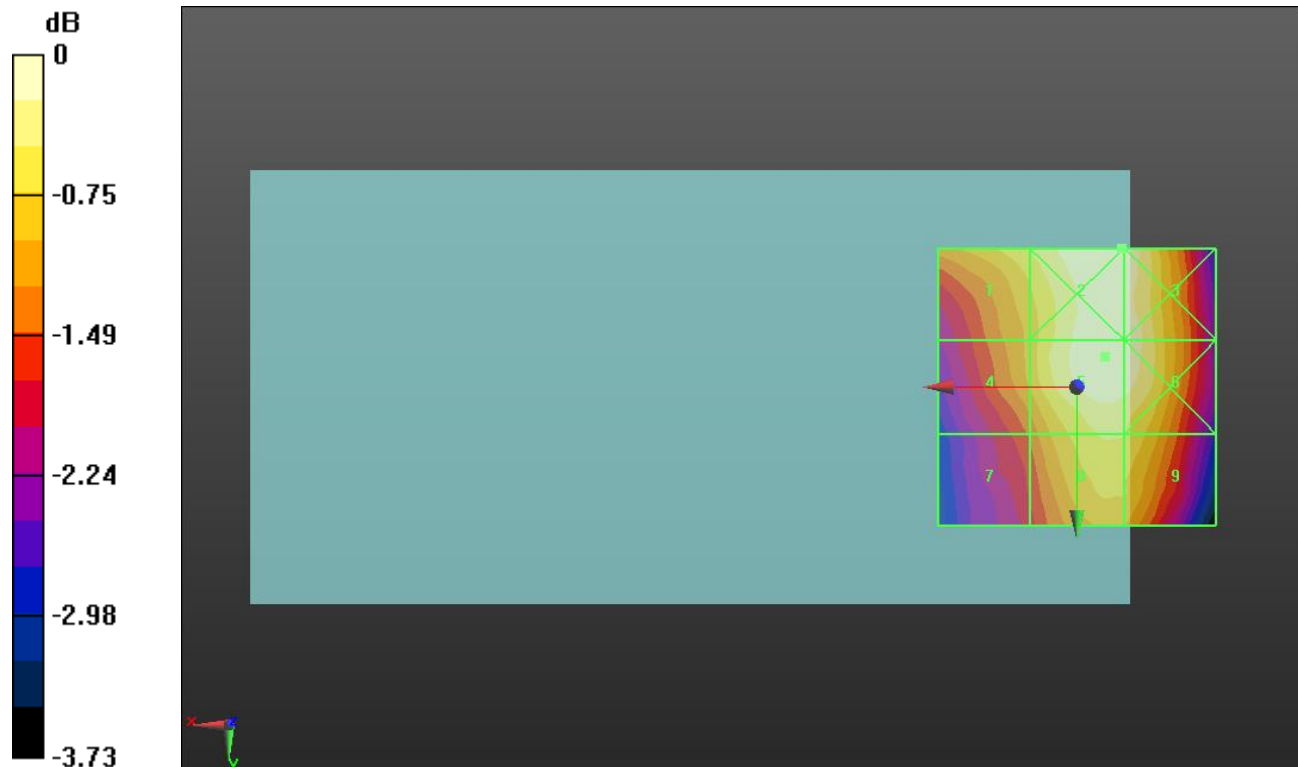
Applied MIF = 3.63 dB

RF audio interference level = 30.29 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 29.87 dBV/m	Grid 2 M4 30.32 dBV/m	Grid 3 M4 30.32 dBV/m
Grid 4 M4 29.43 dBV/m	Grid 5 M4 30.29 dBV/m	Grid 6 M4 30.27 dBV/m
Grid 7 M4 28.88 dBV/m	Grid 8 M4 29.85 dBV/m	Grid 9 M4 29.83 dBV/m



0 dB = 32.80 V/m = 30.32 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: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 21.87 V/m; Power Drift = 0.40 dB

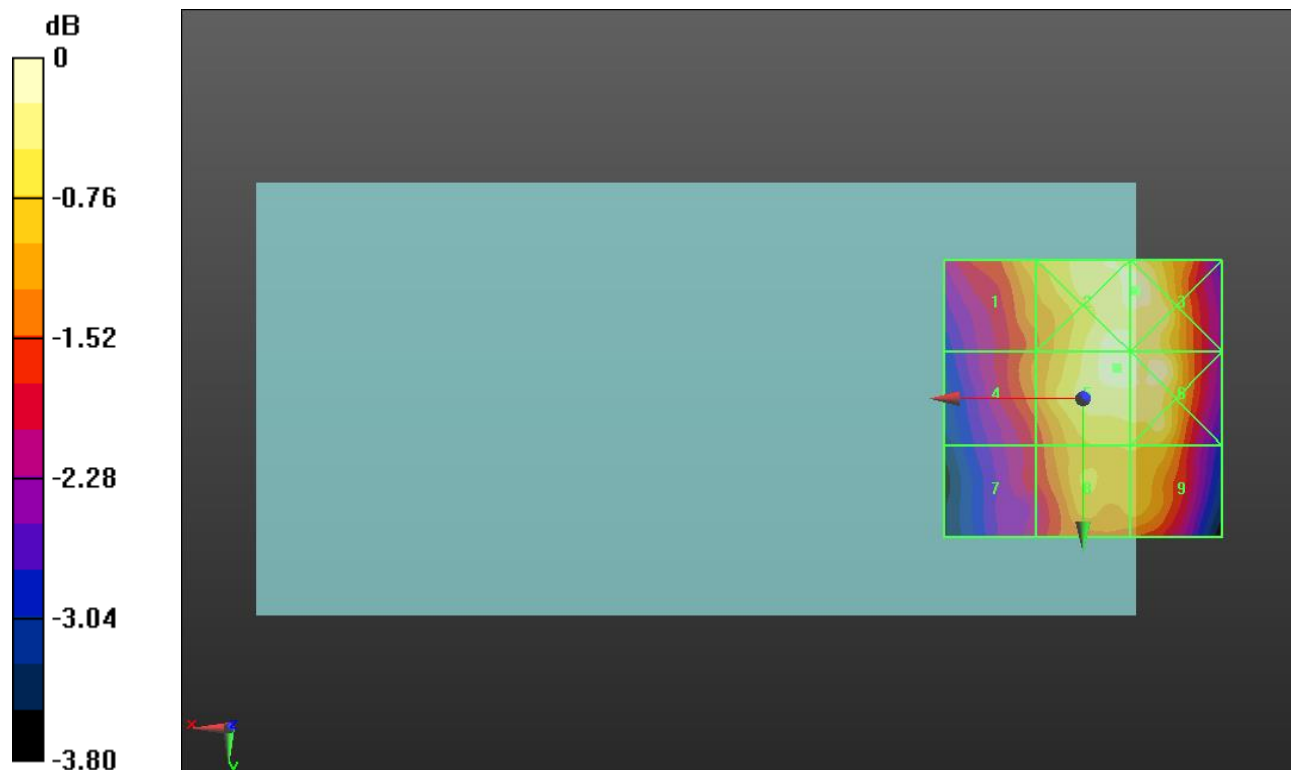
Applied MIF = 3.63 dB

RF audio interference level = 29.17 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 28.56 dBV/m	Grid 2 M4 29.25 dBV/m	Grid 3 M4 29.3 dBV/m
Grid 4 M4 28.12 dBV/m	Grid 5 M4 29.17 dBV/m	Grid 6 M4 29.19 dBV/m
Grid 7 M4 27.57 dBV/m	Grid 8 M4 28.62 dBV/m	Grid 9 M4 28.58 dBV/m



0 dB = 29.17 V/m = 29.30 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: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 19.93 V/m; Power Drift = 0.07 dB

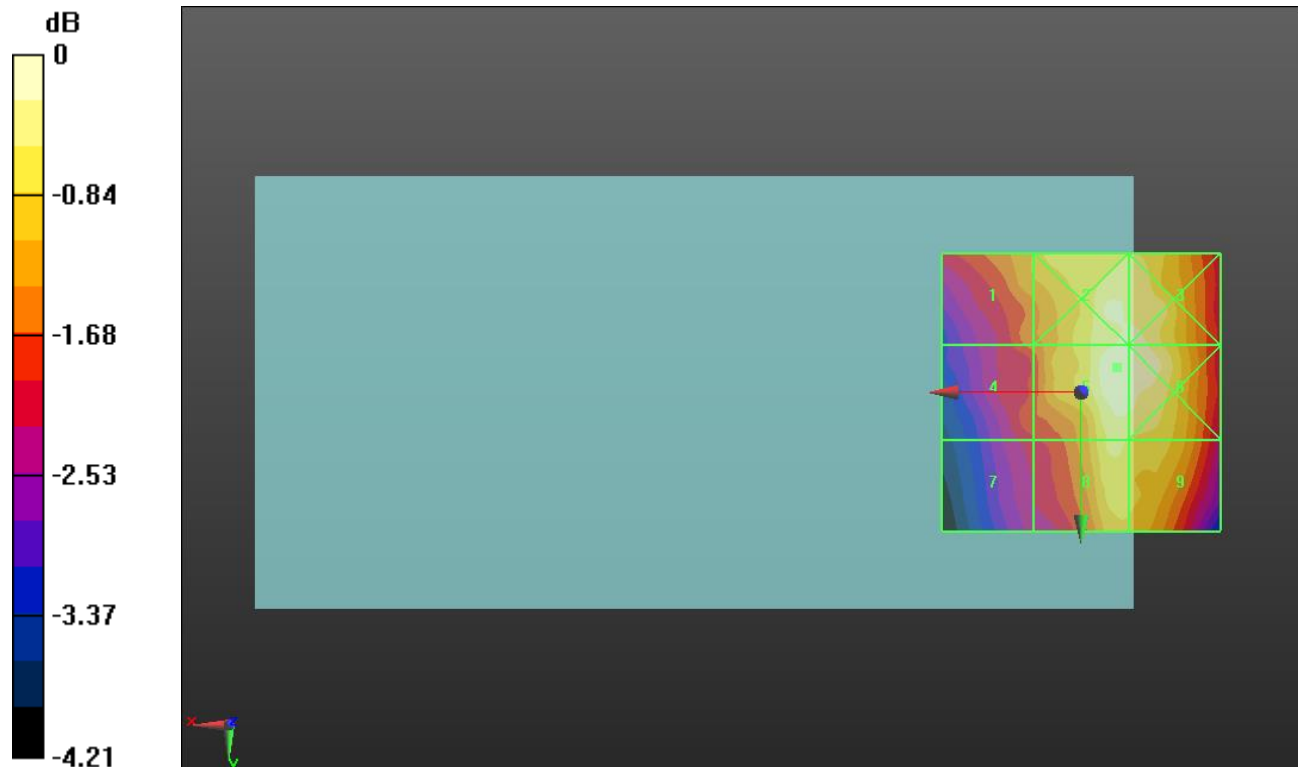
Applied MIF = 3.63 dB

RF audio interference level = 28.45 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 27.38 dBV/m	Grid 2 M4 28.28 dBV/m	Grid 3 M4 28.28 dBV/m
Grid 4 M4 26.91 dBV/m	Grid 5 M4 28.45 dBV/m	Grid 6 M4 28.4 dBV/m
Grid 7 M4 26.45 dBV/m	Grid 8 M4 28 dBV/m	Grid 9 M4 27.87 dBV/m



0 dB = 26.46 V/m = 28.45 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: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 18.51 V/m; Power Drift = -0.18 dB

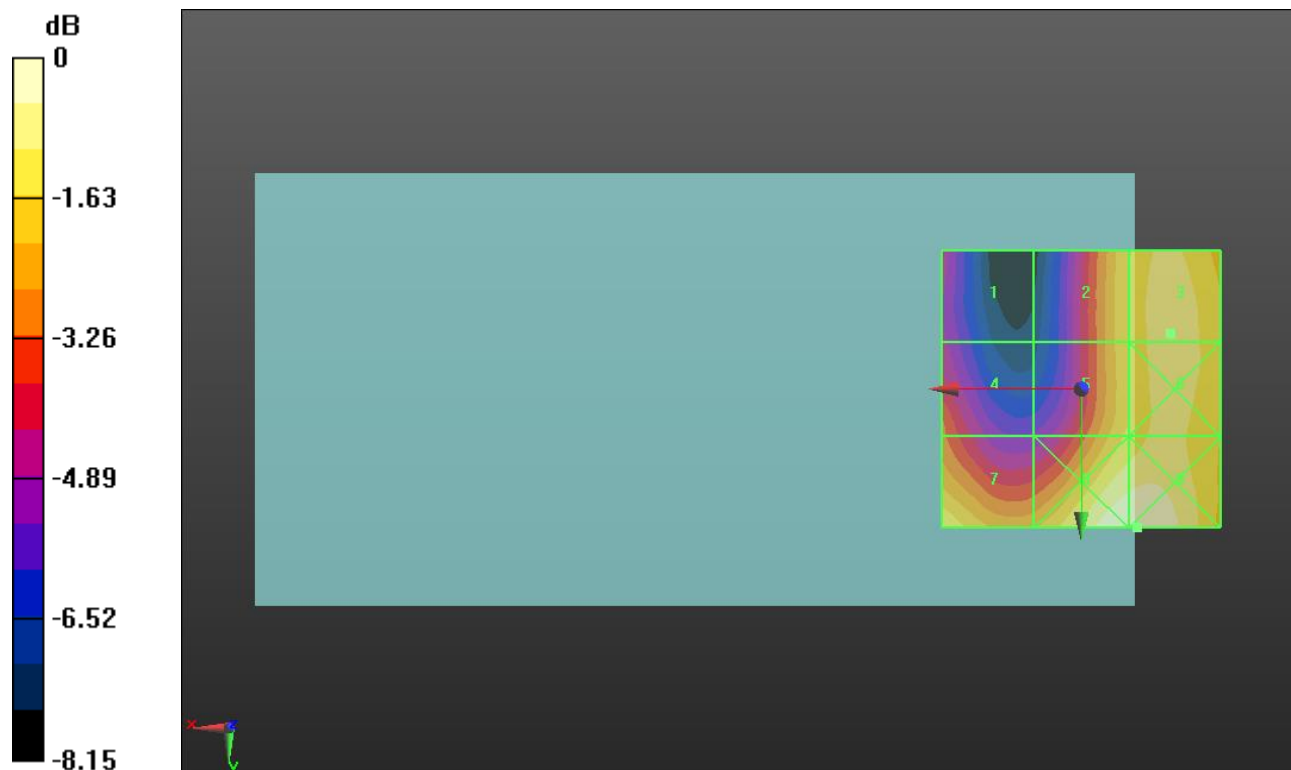
Applied MIF = 3.63 dB

RF audio interference level = 30.95 dBV/m

Emission category: M3

MIF scaled E-field

Grid 1 M4 27.35 dBV/m	Grid 2 M3 30.16 dBV/m	Grid 3 M3 30.95 dBV/m
Grid 4 M4 28.69 dBV/m	Grid 5 M3 30.28 dBV/m	Grid 6 M3 30.94 dBV/m
Grid 7 M3 30.86 dBV/m	Grid 8 M3 31.73 dBV/m	Grid 9 M3 31.75 dBV/m



0 dB = 38.70 V/m = 31.75 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: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 18.75 V/m; Power Drift = -0.21 dB

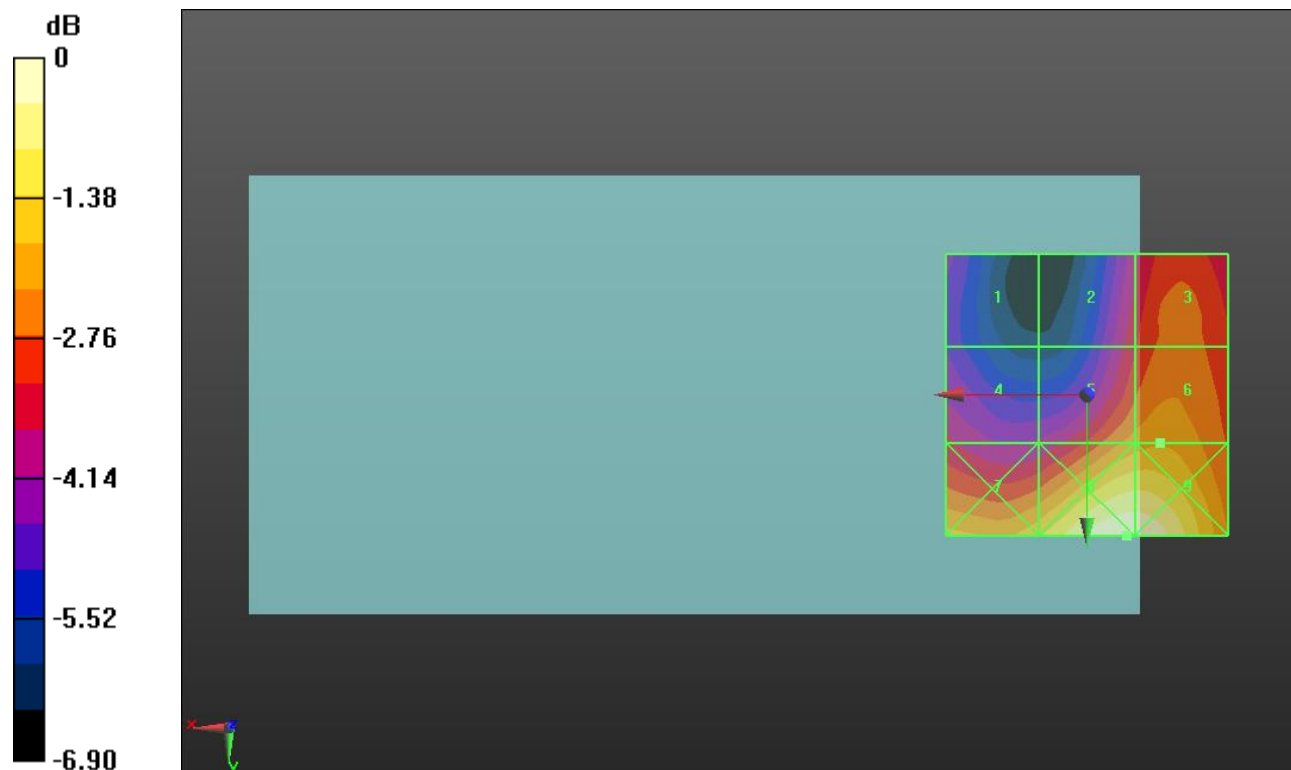
Applied MIF = 3.63 dB

RF audio interference level = 30.70 dBV/m

Emission category: M3

MIF scaled E-field

Grid 1 M4 28.23 dBV/m	Grid 2 M4 29.33 dBV/m	Grid 3 M3 30.09 dBV/m
Grid 4 M4 29.05 dBV/m	Grid 5 M3 30.52 dBV/m	Grid 6 M3 30.7 dBV/m
Grid 7 M3 31.14 dBV/m	Grid 8 M3 32.58 dBV/m	Grid 9 M3 32.57 dBV/m



0 dB = 42.58 V/m = 32.58 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: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 18.21 V/m; Power Drift = -0.48 dB

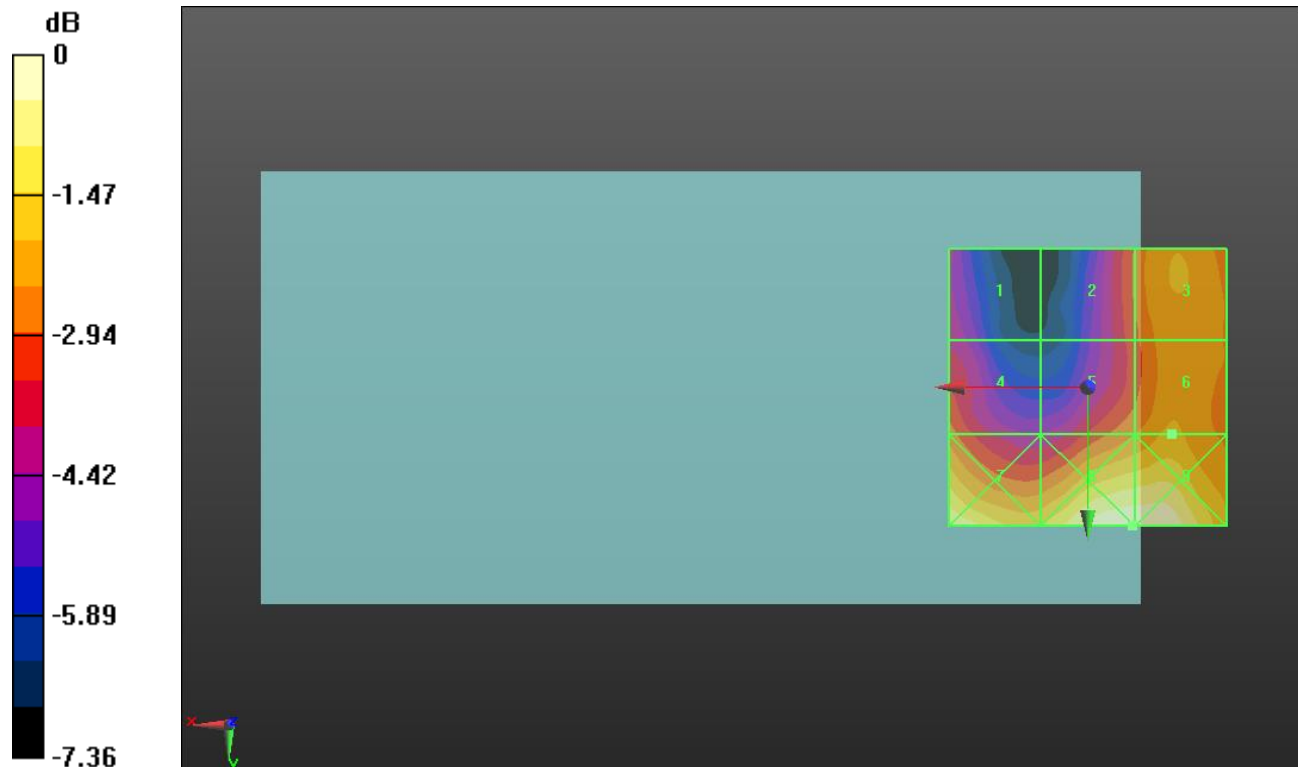
Applied MIF = 3.63 dB

RF audio interference level = 30.01 dBV/m

Emission category: M3

MIF scaled E-field

Grid 1 M4 27.84 dBV/m	Grid 2 M4 29.04 dBV/m	Grid 3 M4 29.95 dBV/m
Grid 4 M4 29.22 dBV/m	Grid 5 M4 29.41 dBV/m	Grid 6 M3 30.01 dBV/m
Grid 7 M3 31.44 dBV/m	Grid 8 M3 31.84 dBV/m	Grid 9 M3 31.84 dBV/m



0 dB = 39.11 V/m = 31.85 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: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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/LTE TDD_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 = 11.16 V/m; Power Drift = 0.46 dB

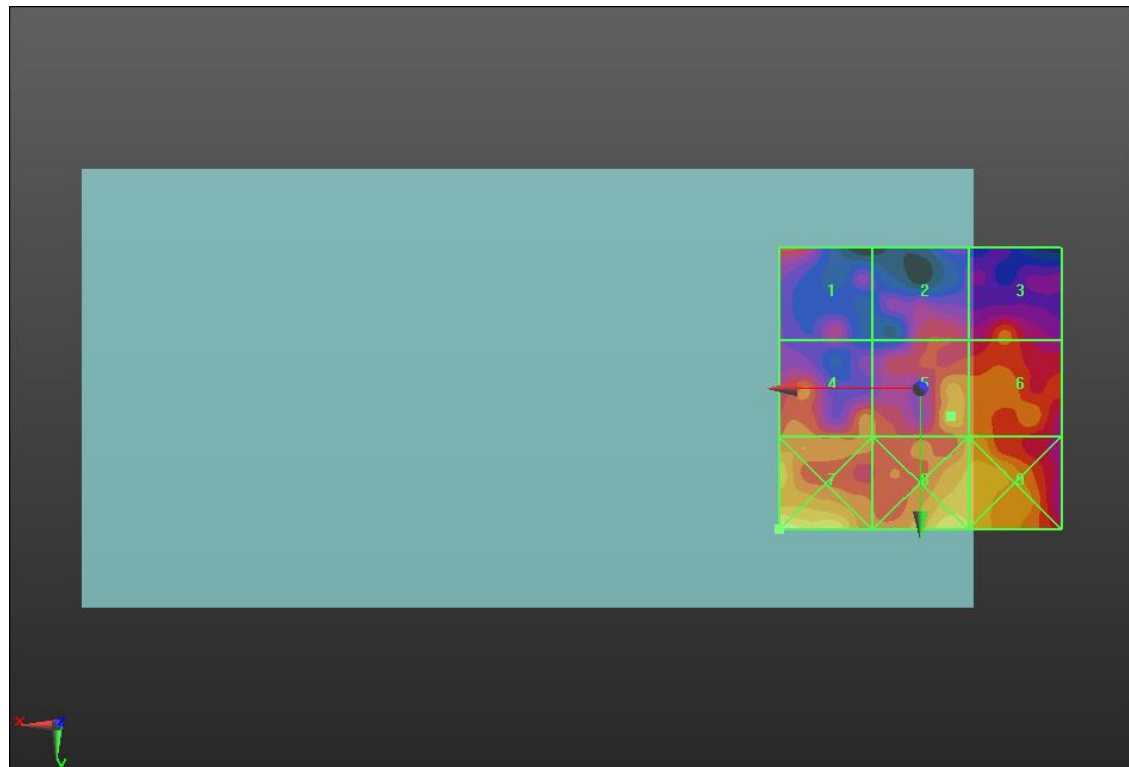
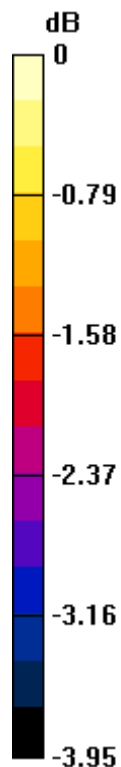
Applied MIF = -1.44 dB

RF audio interference level = 18.97 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 18.43 dBV/m	Grid 2 M4 18.28 dBV/m	Grid 3 M4 18.63 dBV/m
Grid 4 M4 18.67 dBV/m	Grid 5 M4 18.97 dBV/m	Grid 6 M4 18.83 dBV/m
Grid 7 M4 20.08 dBV/m	Grid 8 M4 19.6 dBV/m	Grid 9 M4 19.36 dBV/m



0 dB = 10.09 V/m = 20.08 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: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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/LTE TDD_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 = 10.11 V/m; Power Drift = 0.47 dB

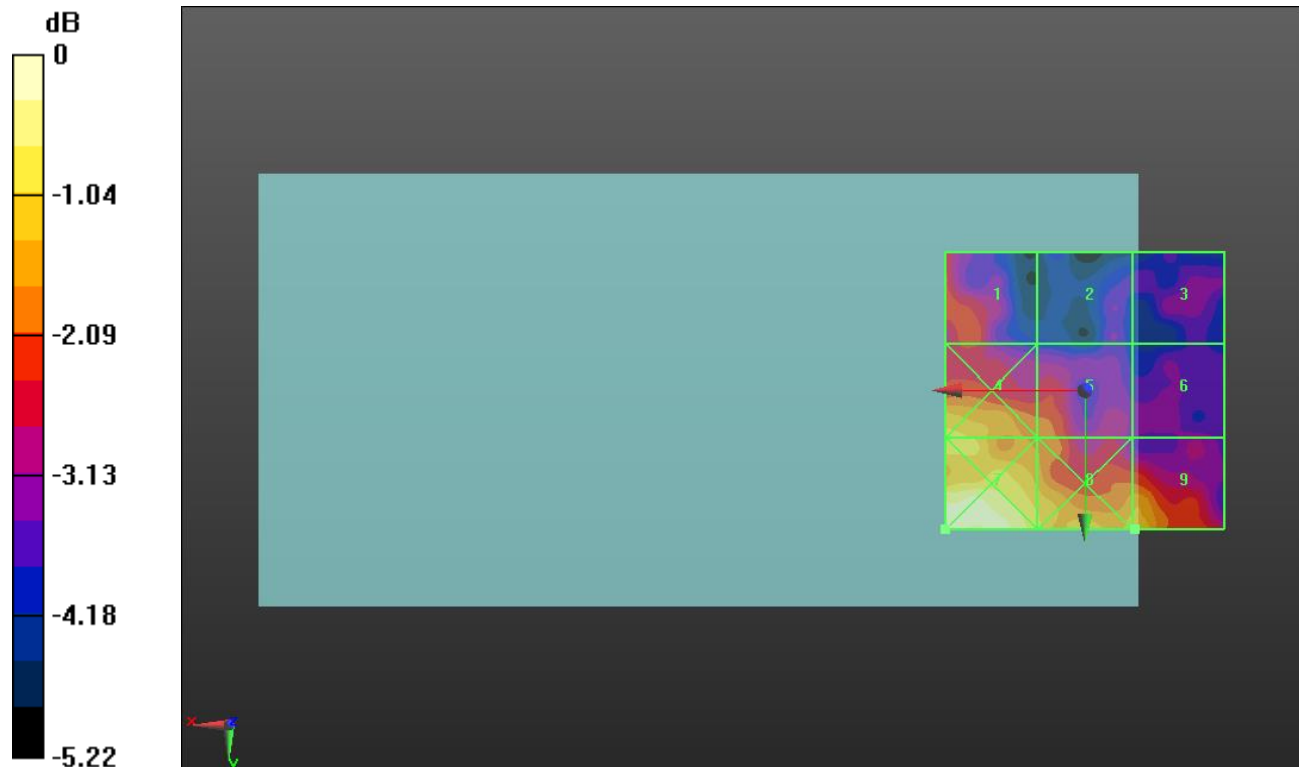
Applied MIF = -1.44 dB

RF audio interference level = 19.63 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 18.66 dBV/m	Grid 2 M4 17.31 dBV/m	Grid 3 M4 17.5 dBV/m
Grid 4 M4 19.76 dBV/m	Grid 5 M4 18.93 dBV/m	Grid 6 M4 17.57 dBV/m
Grid 7 M4 20.74 dBV/m	Grid 8 M4 19.81 dBV/m	Grid 9 M4 19.63 dBV/m



0 dB = 10.89 V/m = 20.74 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: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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/LTE TDD_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 = 10.02 V/m; Power Drift = 0.68 dB

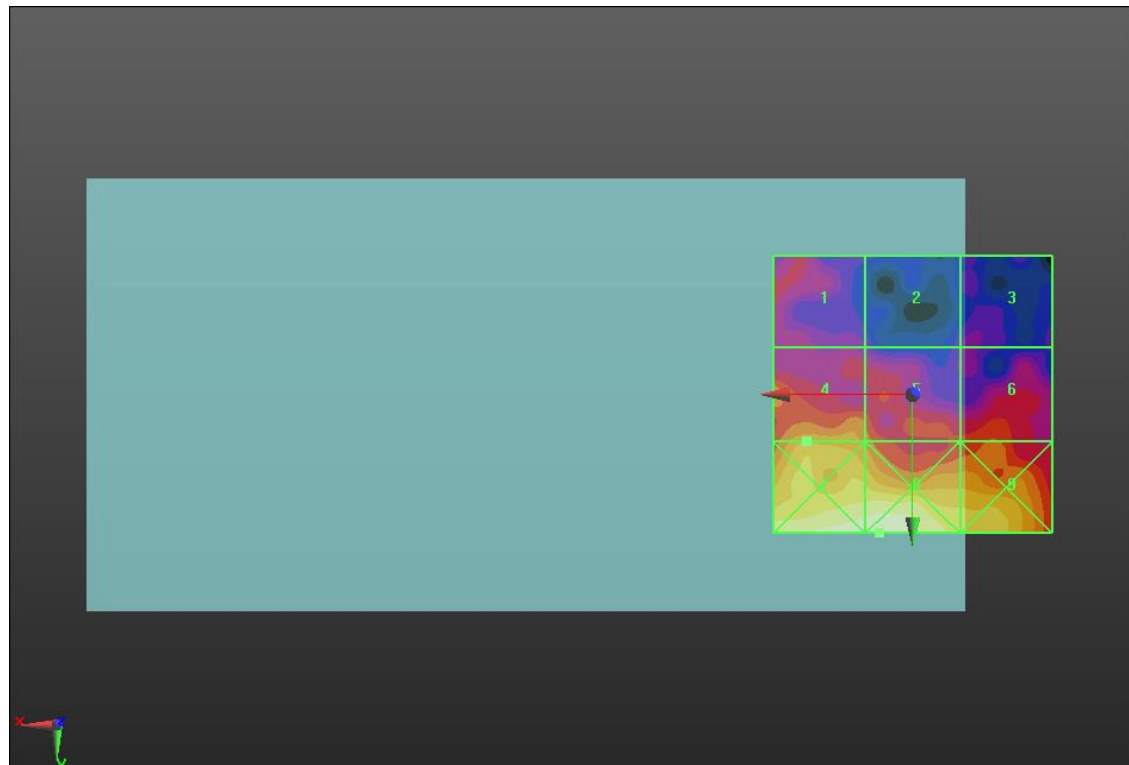
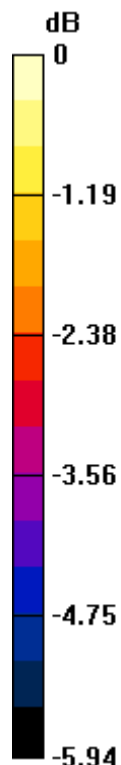
Applied MIF = -1.44 dB

RF audio interference level = 18.80 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 17.4 dBV/m	Grid 2 M4 16.5 dBV/m	Grid 3 M4 16.57 dBV/m
Grid 4 M4 18.8 dBV/m	Grid 5 M4 18.3 dBV/m	Grid 6 M4 18.08 dBV/m
Grid 7 M4 20.26 dBV/m	Grid 8 M4 20.38 dBV/m	Grid 9 M4 19.46 dBV/m



0 dB = 10.45 V/m = 20.38 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: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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/LTE TDD_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 = 12.36 V/m; Power Drift = -0.37 dB

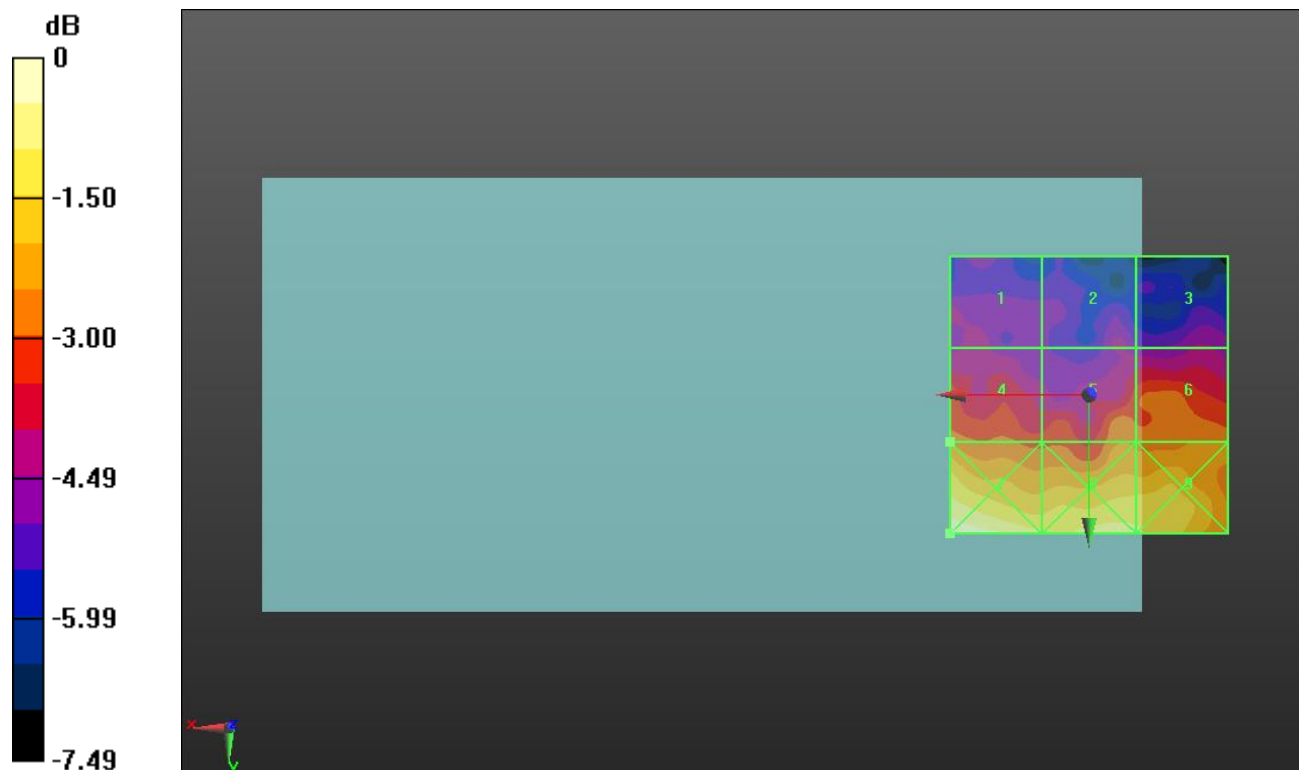
Applied MIF = -1.44 dB

RF audio interference level = 19.79 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 17.95 dBV/m	Grid 2 M4 17.84 dBV/m	Grid 3 M4 17.82 dBV/m
Grid 4 M4 19.79 dBV/m	Grid 5 M4 19.73 dBV/m	Grid 6 M4 19.77 dBV/m
Grid 7 M4 22.22 dBV/m	Grid 8 M4 21.45 dBV/m	Grid 9 M4 21.28 dBV/m



0 dB = 12.91 V/m = 22.22 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: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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/LTE TDD_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 = 10.01 V/m; Power Drift = 0.04 dB

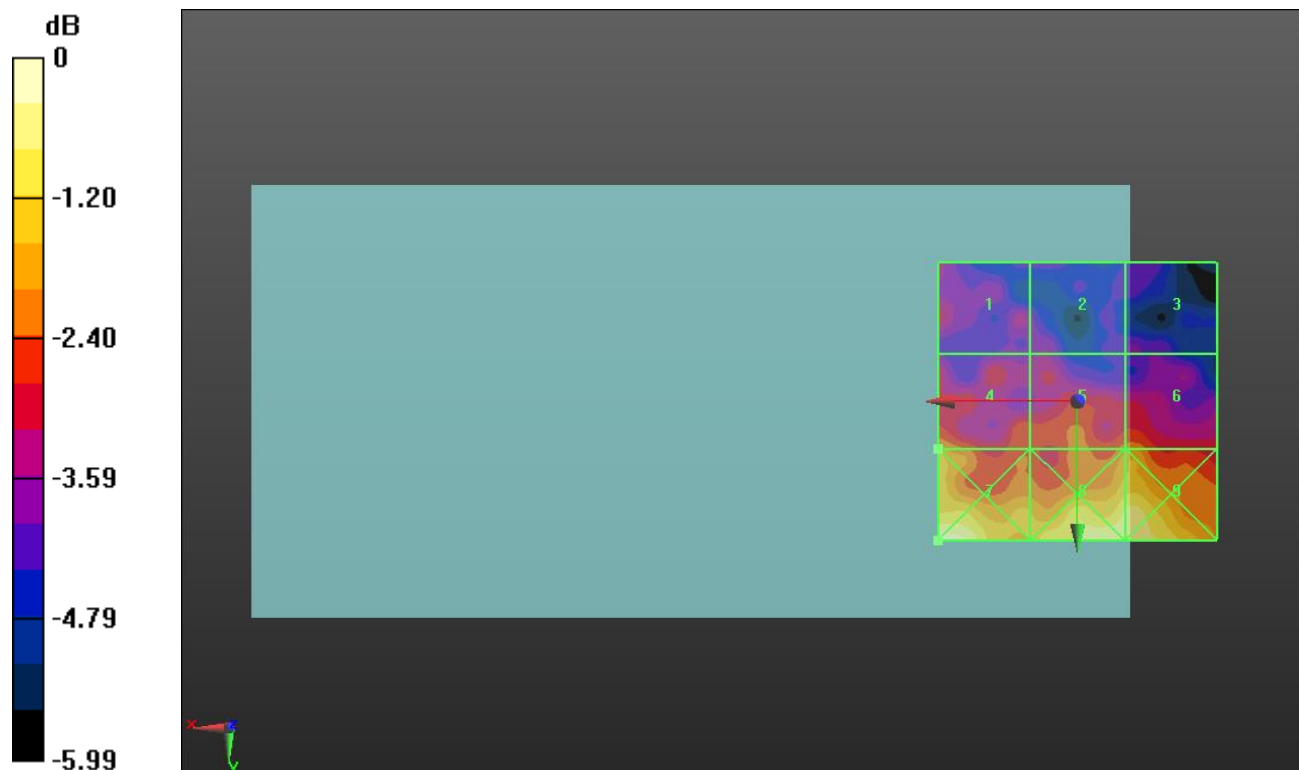
Applied MIF = -1.44 dB

RF audio interference level = 18.97 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 17.71 dBV/m	Grid 2 M4 17.16 dBV/m	Grid 3 M4 16.77 dBV/m
Grid 4 M4 18.97 dBV/m	Grid 5 M4 18.54 dBV/m	Grid 6 M4 18.66 dBV/m
Grid 7 M4 20.68 dBV/m	Grid 8 M4 20.27 dBV/m	Grid 9 M4 20.13 dBV/m



0 dB = 10.81 V/m = 20.68 dBV/m

HAC-RF Emission

Communication System: UID 10077, IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps); Frequency: 2422 MHz; Duty Cycle: 1:12.5893

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4041; ConvF(1, 1, 1); Calibrated: 3/22/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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)

802.11g E-Field measurement/IEEE 802.11g_OFDM 54 Mbps_ch 3/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 = 5.239 V/m; Power Drift = 1.22 dB

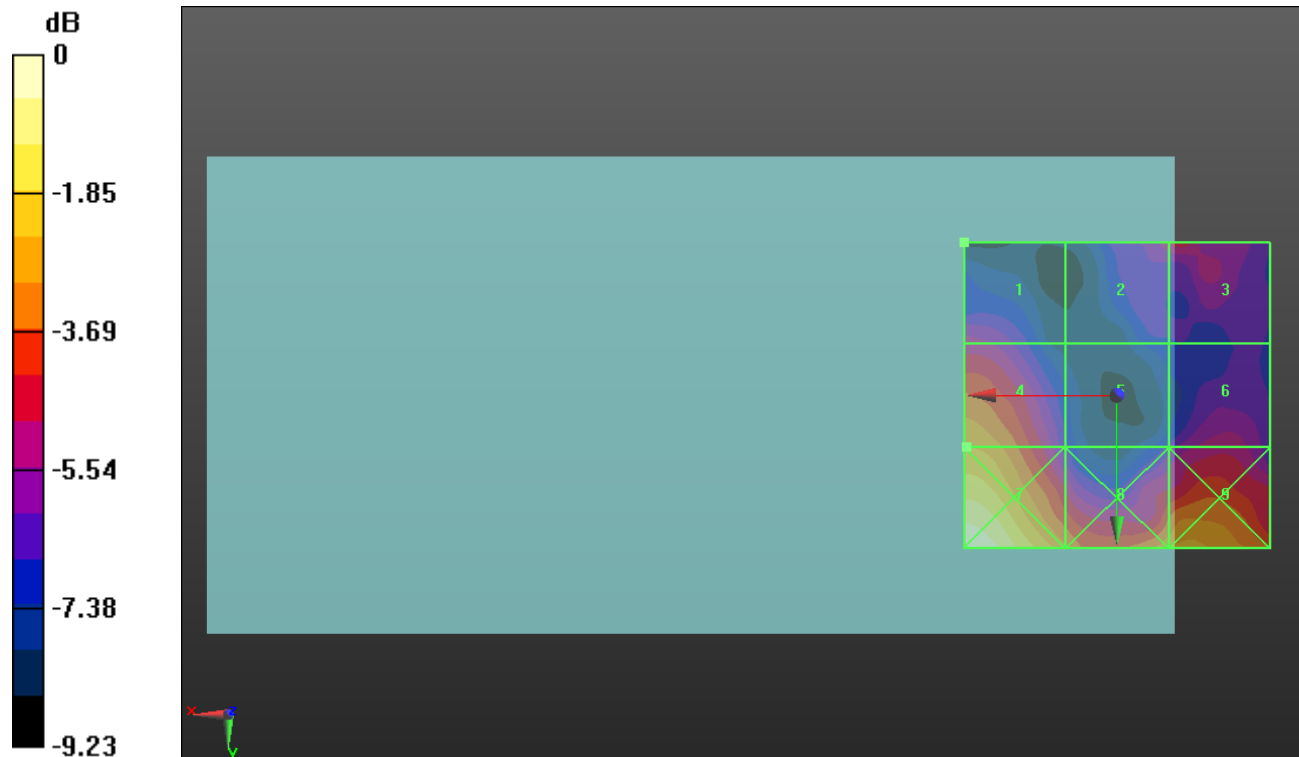
Applied MIF = 0.12 dB

RF audio interference level = 20.79 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 18.03 dBV/m	Grid 2 M4 18.48 dBV/m	Grid 3 M4 18.78 dBV/m
Grid 4 M4 20.79 dBV/m	Grid 5 M4 16.8 dBV/m	Grid 6 M4 18.14 dBV/m
Grid 7 M4 23.22 dBV/m	Grid 8 M4 20.8 dBV/m	Grid 9 M4 21.05 dBV/m



0 dB = 14.49 V/m = 23.22 dBV/m

HAC-RF Emission

Communication System: UID 10077, IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps); Frequency: 2437 MHz; Duty Cycle: 1:12.5893

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4041; ConvF(1, 1, 1); Calibrated: 3/22/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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)

802.11g E-Field measurement/IEEE 802.11g_OFDM 54 Mbps_ch 6/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 = 6.666 V/m; Power Drift = -0.23 dB

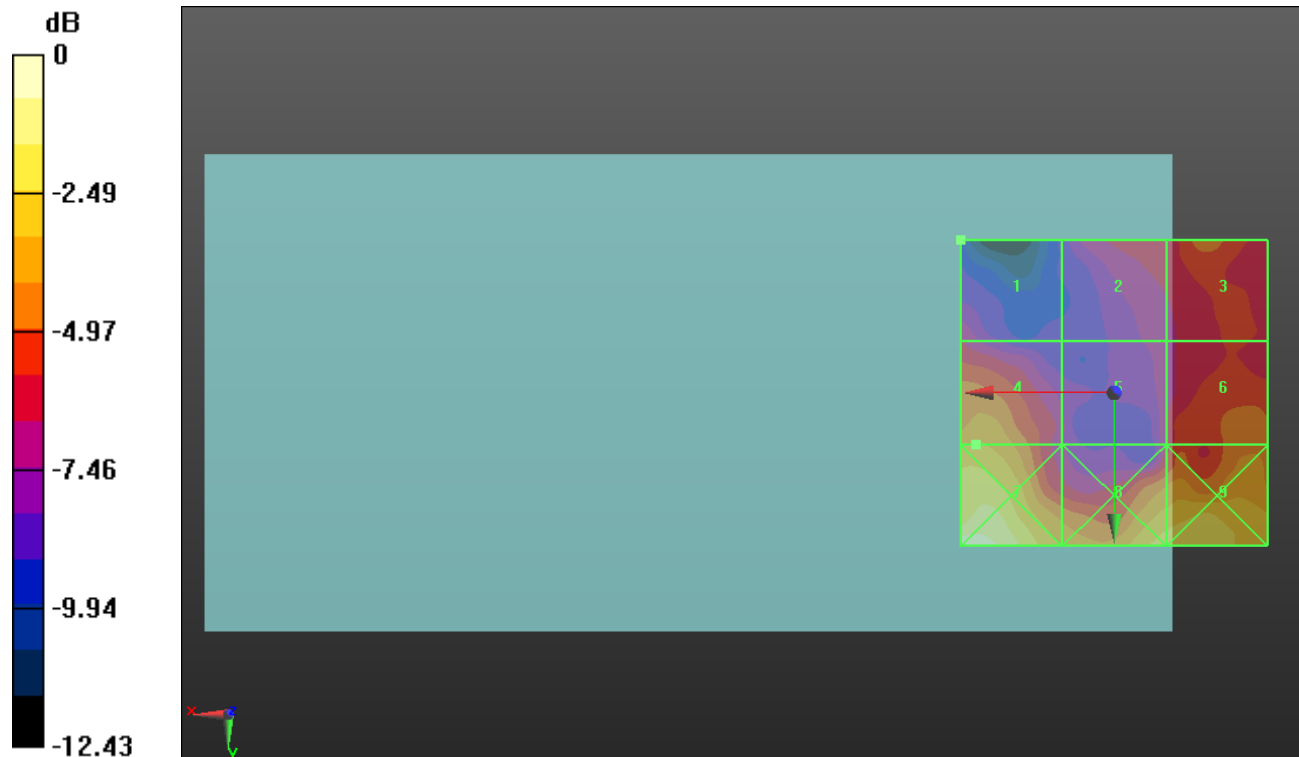
Applied MIF = 0.12 dB

RF audio interference level = 19.78 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 16.48 dBV/m	Grid 2 M4 17.01 dBV/m	Grid 3 M4 18.78 dBV/m
Grid 4 M4 19.78 dBV/m	Grid 5 M4 16.55 dBV/m	Grid 6 M4 18.72 dBV/m
Grid 7 M4 22.98 dBV/m	Grid 8 M4 21 dBV/m	Grid 9 M4 21.34 dBV/m



0 dB = 14.10 V/m = 22.98 dBV/m

HAC-RF Emission

Communication System: UID 10077, IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps); Frequency: 2452 MHz; Duty Cycle: 1:12.5893

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4041; ConvF(1, 1, 1); Calibrated: 3/22/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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)

802.11g E-Field measurement/IEEE 802.11g_OFDM 54 Mbps_ch 9/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 = 5.541 V/m; Power Drift = 0.28 dB

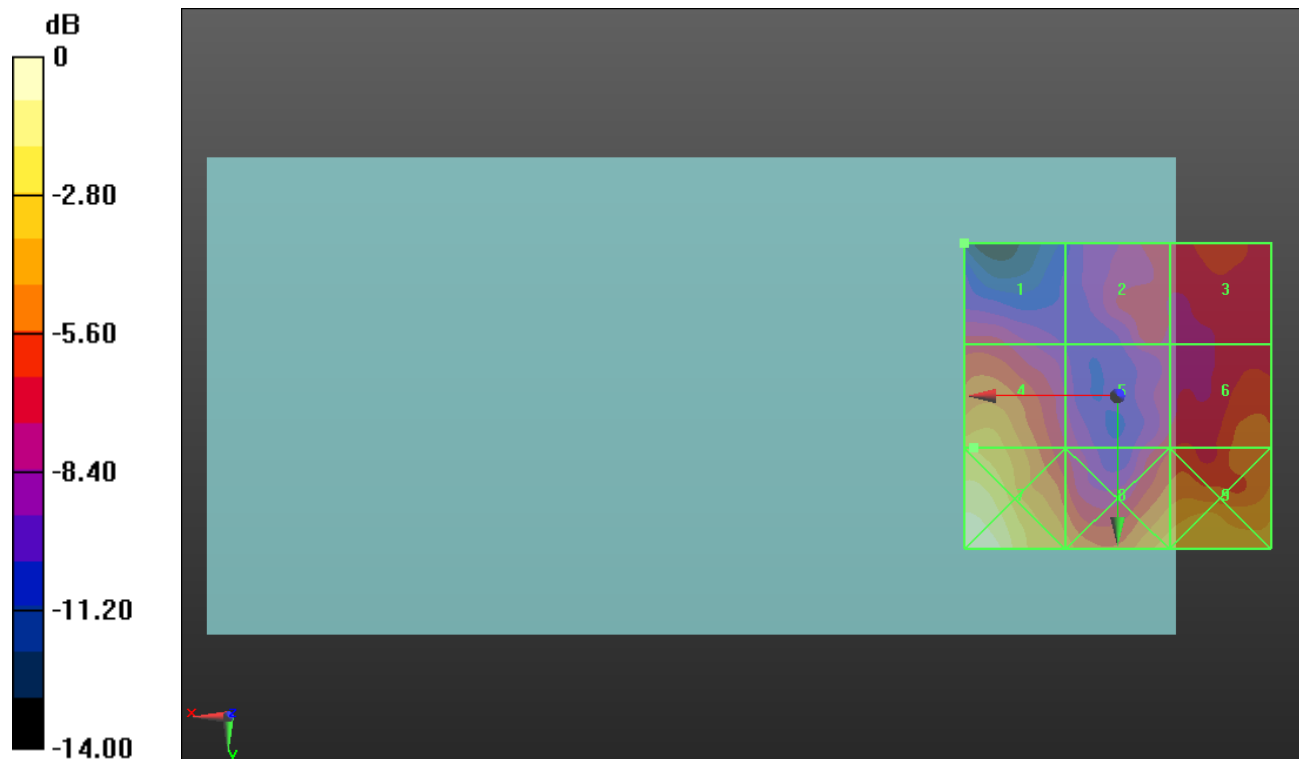
Applied MIF = 0.12 dB

RF audio interference level = 20.39 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 16.4 dBV/m	Grid 2 M4 16.56 dBV/m	Grid 3 M4 17.15 dBV/m
Grid 4 M4 20.39 dBV/m	Grid 5 M4 16.68 dBV/m	Grid 6 M4 18.45 dBV/m
Grid 7 M4 23.35 dBV/m	Grid 8 M4 20.14 dBV/m	Grid 9 M4 20.53 dBV/m



0 dB = 14.71 V/m = 23.35 dBV/m