

HAC-RF Emission

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1360; Calibrated: 3/17/2014
- 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)

Dipole E-Field Measurement/835 MHz/Hearing Aid Compatibility Test at 15mm distance

(41x361x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 122.7 V/m; Power Drift = -0.01 dB

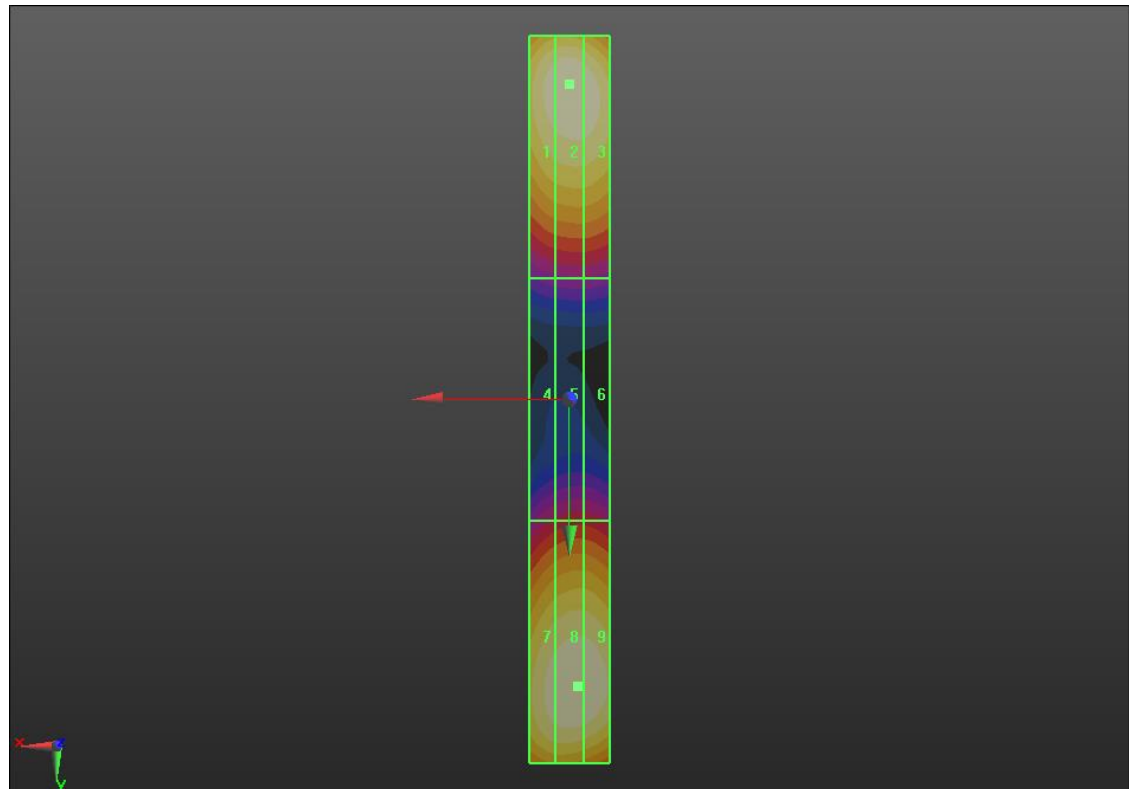
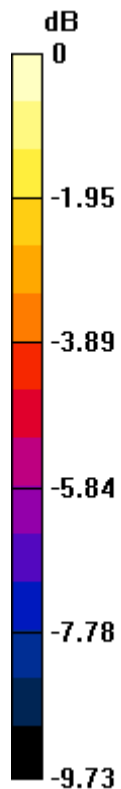
PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 110.2 V/m

Near-field category: **M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 M4 107.9 V/m	Grid 2 M4 110.2 V/m	Grid 3 M4 108.8 V/m
Grid 4 M4 61.89 V/m	Grid 5 M4 64.08 V/m	Grid 6 M4 64.00 V/m
Grid 7 M4 107.0 V/m	Grid 8 M4 110.2 V/m	Grid 9 M4 110.0 V/m



0 dB = 110.2 V/m = 40.84 dBV/m

HAC-RF Emission

Communication System: UID 0, CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1360; Calibrated: 3/17/2014
- 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)

Dipole E-Field Measurement/1880 MHz/Hearing Aid Compatibility Test at 15mm distance (41x181x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 136.7 V/m; Power Drift = 0.01 dB

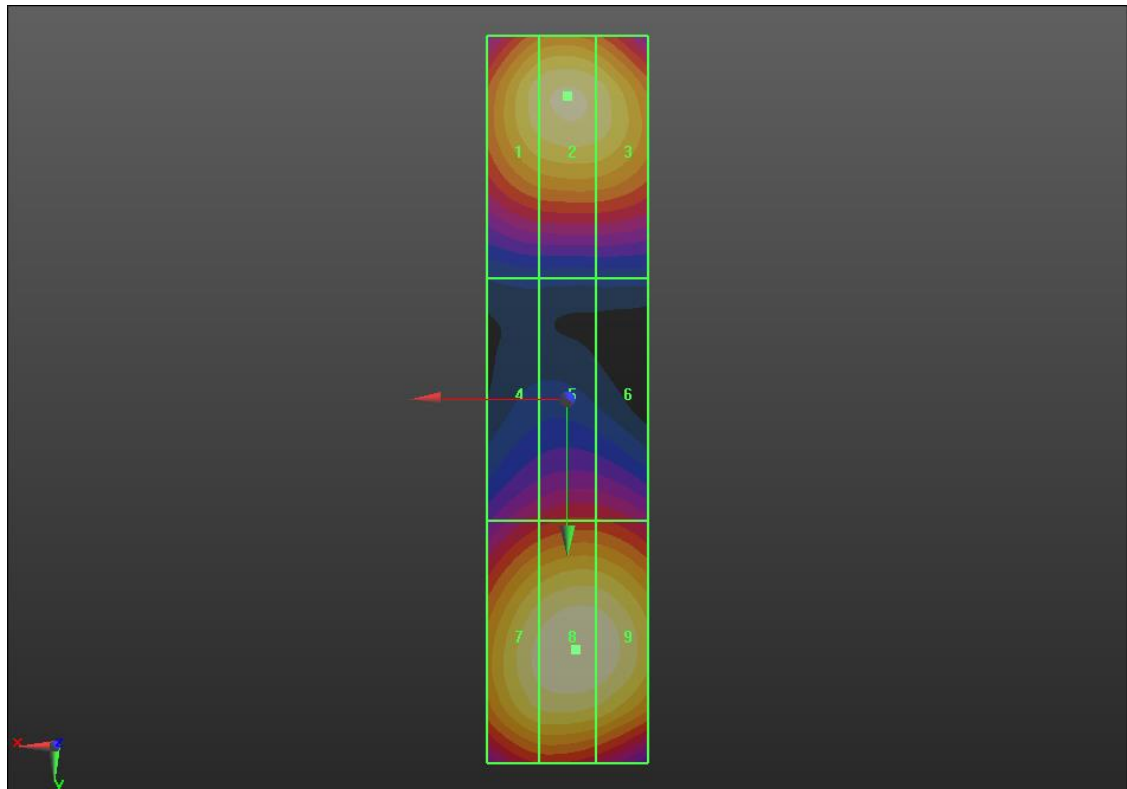
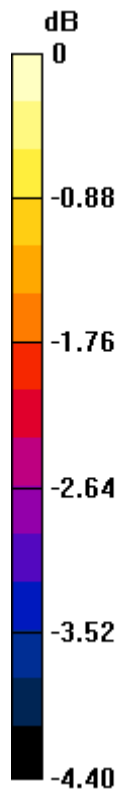
PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 90.86 V/m

Near-field category: **M3 (AWF 0 dB)**

PMF scaled E-field

Grid 1 M3 86.86 V/m	Grid 2 M3 88.39 V/m	Grid 3 M3 87.18 V/m
Grid 4 M3 70.70 V/m	Grid 5 M3 72.55 V/m	Grid 6 M3 72.39 V/m
Grid 7 M3 88.78 V/m	Grid 8 M3 90.86 V/m	Grid 9 M3 90.44 V/m



0 dB = 90.86 V/m = 39.17 dBV/m

HAC-RF Emission

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

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1360; Calibrated: 3/17/2014
- 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 = 90.53 V/m; Power Drift = 0.05 dB

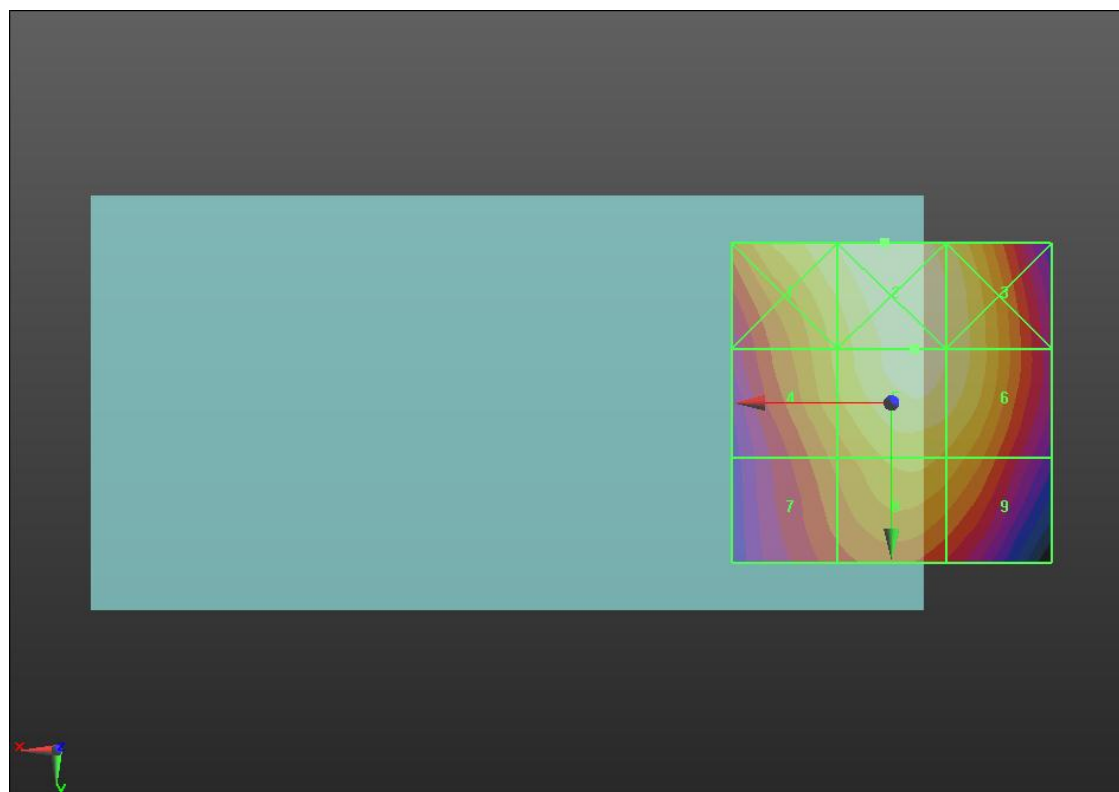
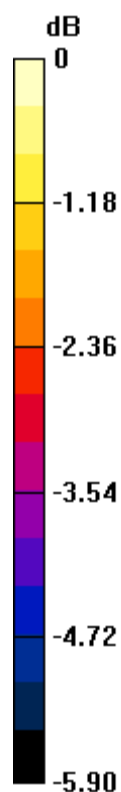
Applied MIF = 3.63 dB

RF audio interference level = 40.87 dBV/m

Emission category: M3

MIF scaled E-field

Grid 1 M3 40.7 dBV/m	Grid 2 M3 41.07 dBV/m	Grid 3 M3 40.7 dBV/m
Grid 4 M3 40.02 dBV/m	Grid 5 M3 40.87 dBV/m	Grid 6 M3 40.69 dBV/m
Grid 7 M4 39.26 dBV/m	Grid 8 M3 40.04 dBV/m	Grid 9 M4 39.82 dBV/m



0 dB = 113.1 V/m = 41.07 dBV/m

HAC-RF Emission

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

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1360; Calibrated: 3/17/2014
- 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 = 84.27 V/m; Power Drift = 0.05 dB

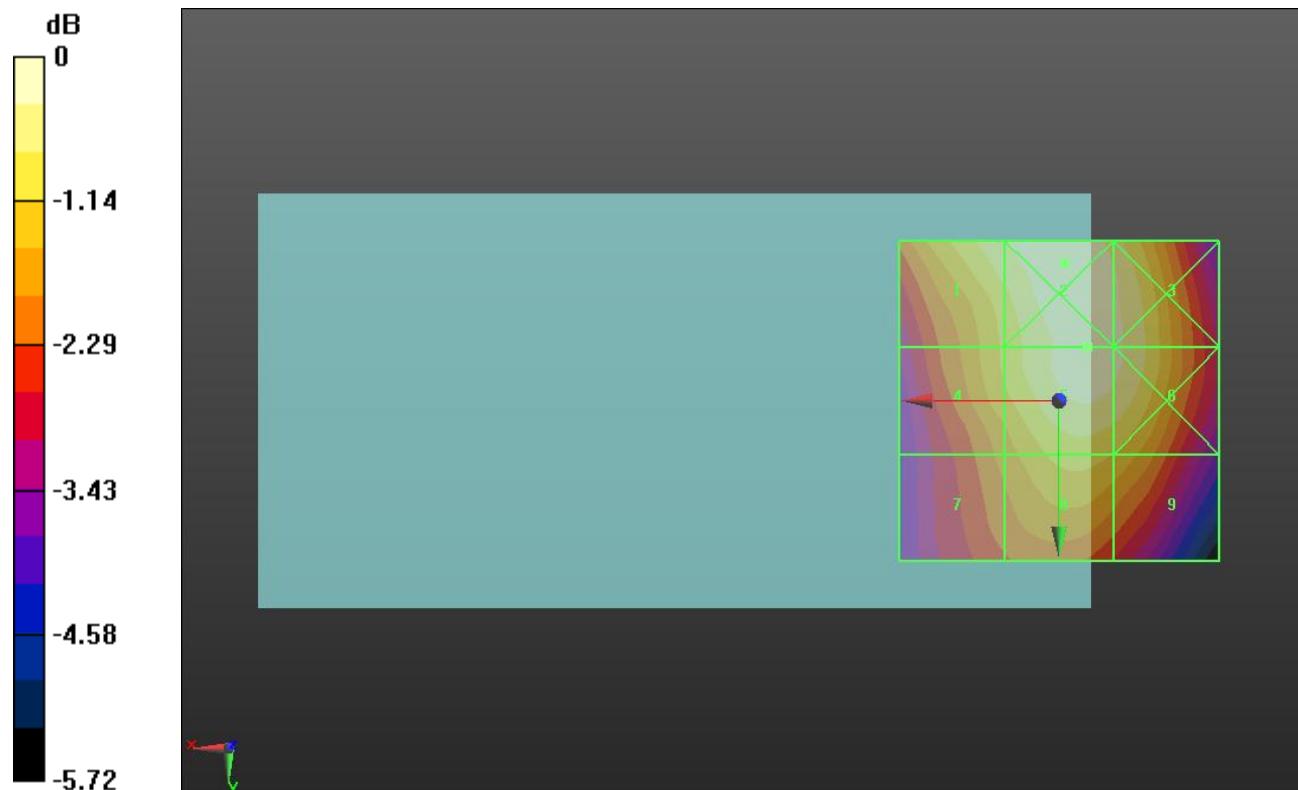
Applied MIF = 3.63 dB

RF audio interference level = 40.21 dBV/m

Emission category: **M3**

MIF scaled E-field

Grid 1 M4 39.96 dBV/m	Grid 2 M3 40.36 dBV/m	Grid 3 M3 40.1 dBV/m
Grid 4 M4 39.31 dBV/m	Grid 5 M3 40.21 dBV/m	Grid 6 M3 40.1 dBV/m
Grid 7 M4 38.63 dBV/m	Grid 8 M4 39.4 dBV/m	Grid 9 M4 39.2 dBV/m



0 dB = 104.3 V/m = 40.37 dBV/m

HAC-RF Emission

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

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1360; Calibrated: 3/17/2014
- 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 = 80.23 V/m; Power Drift = -0.06 dB

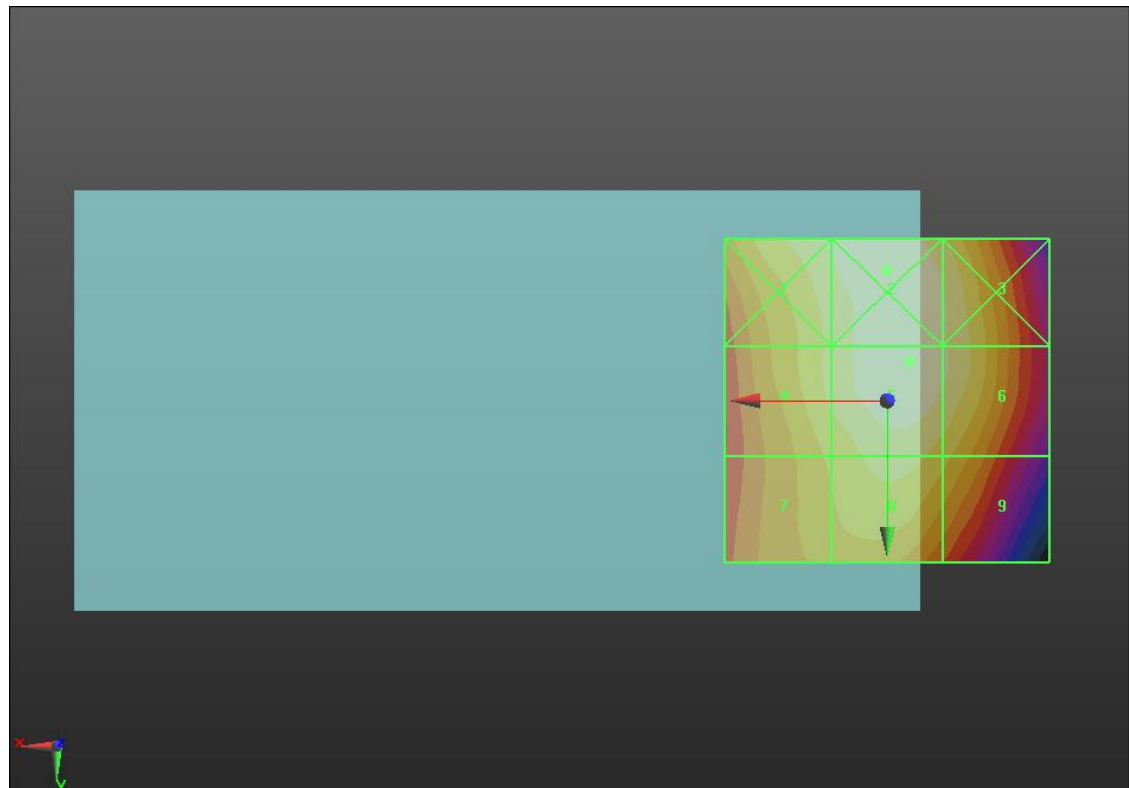
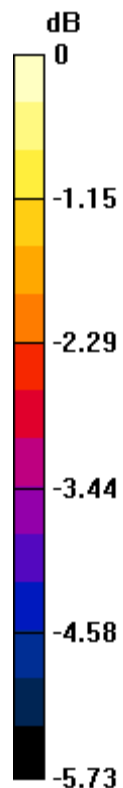
Applied MIF = 3.63 dB

RF audio interference level = 39.45 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 39.19 dBV/m	Grid 2 M4 39.47 dBV/m	Grid 3 M4 39.17 dBV/m
Grid 4 M4 38.84 dBV/m	Grid 5 M4 39.45 dBV/m	Grid 6 M4 39.19 dBV/m
Grid 7 M4 38.42 dBV/m	Grid 8 M4 38.88 dBV/m	Grid 9 M4 38.49 dBV/m



0 dB = 94.09 V/m = 39.47 dBV/m

HAC-RF Emission

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

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1360; Calibrated: 3/17/2014
- 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 = 18.25 V/m; Power Drift = -0.01 dB

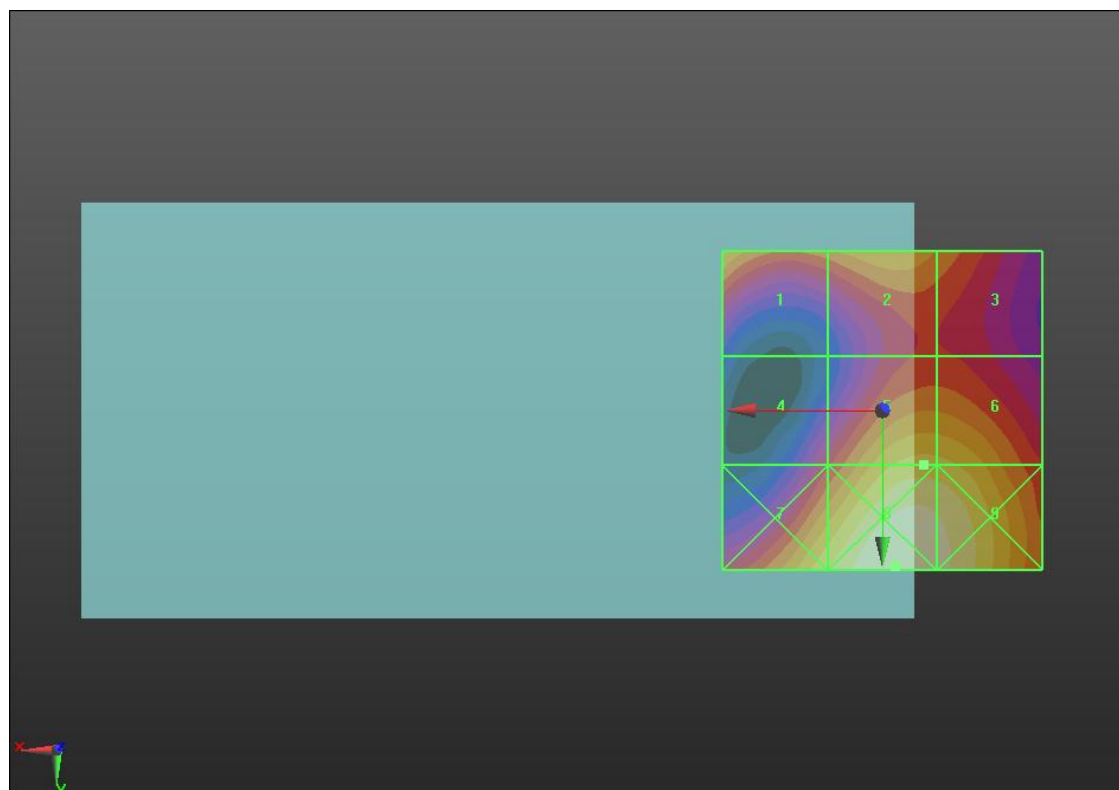
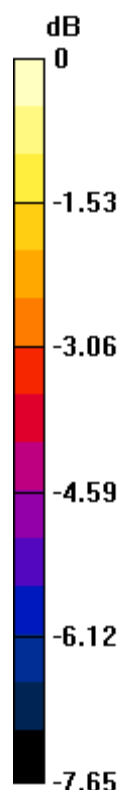
Applied MIF = 3.63 dB

RF audio interference level = 28.62 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 28.1 dBV/m	Grid 2 M4 27.86 dBV/m	Grid 3 M4 27.34 dBV/m
Grid 4 M4 26.25 dBV/m	Grid 5 M4 28.62 dBV/m	Grid 6 M4 28.57 dBV/m
Grid 7 M4 28.88 dBV/m	Grid 8 M4 29.91 dBV/m	Grid 9 M4 29.62 dBV/m



0 dB = 31.29 V/m = 29.91 dBV/m

HAC-RF Emission

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

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1360; Calibrated: 3/17/2014
- 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 = 16.37 V/m; Power Drift = 0.04 dB

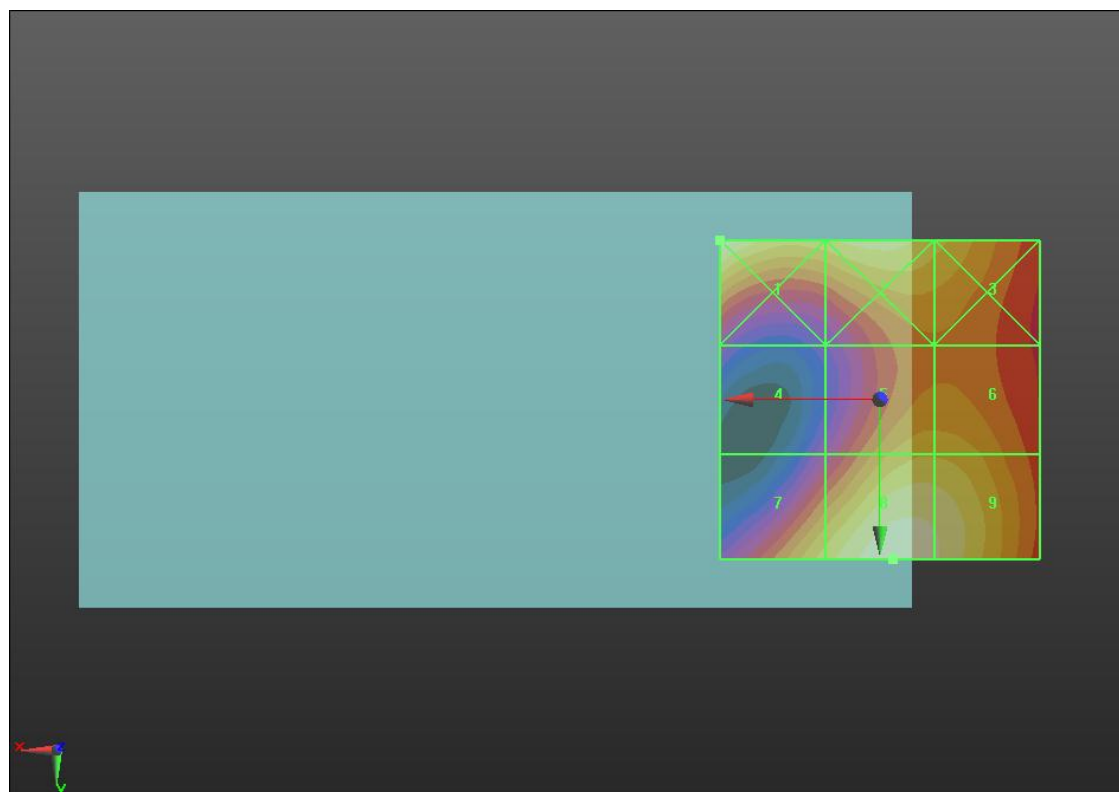
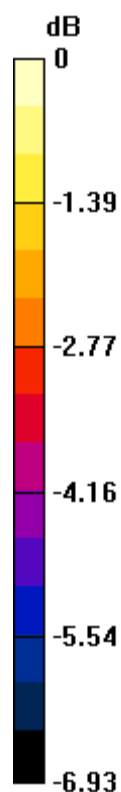
Applied MIF = 3.63 dB

RF audio interference level = 29.36 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 29.46 dBV/m	Grid 2 M4 28.79 dBV/m	Grid 3 M4 28.28 dBV/m
Grid 4 M4 25.38 dBV/m	Grid 5 M4 28.04 dBV/m	Grid 6 M4 28.03 dBV/m
Grid 7 M4 28.36 dBV/m	Grid 8 M4 29.36 dBV/m	Grid 9 M4 29.08 dBV/m



0 dB = 29.72 V/m = 29.46 dBV/m

HAC-RF Emission

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

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1360; Calibrated: 3/17/2014
- 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 = 16.19 V/m; Power Drift = -0.02 dB

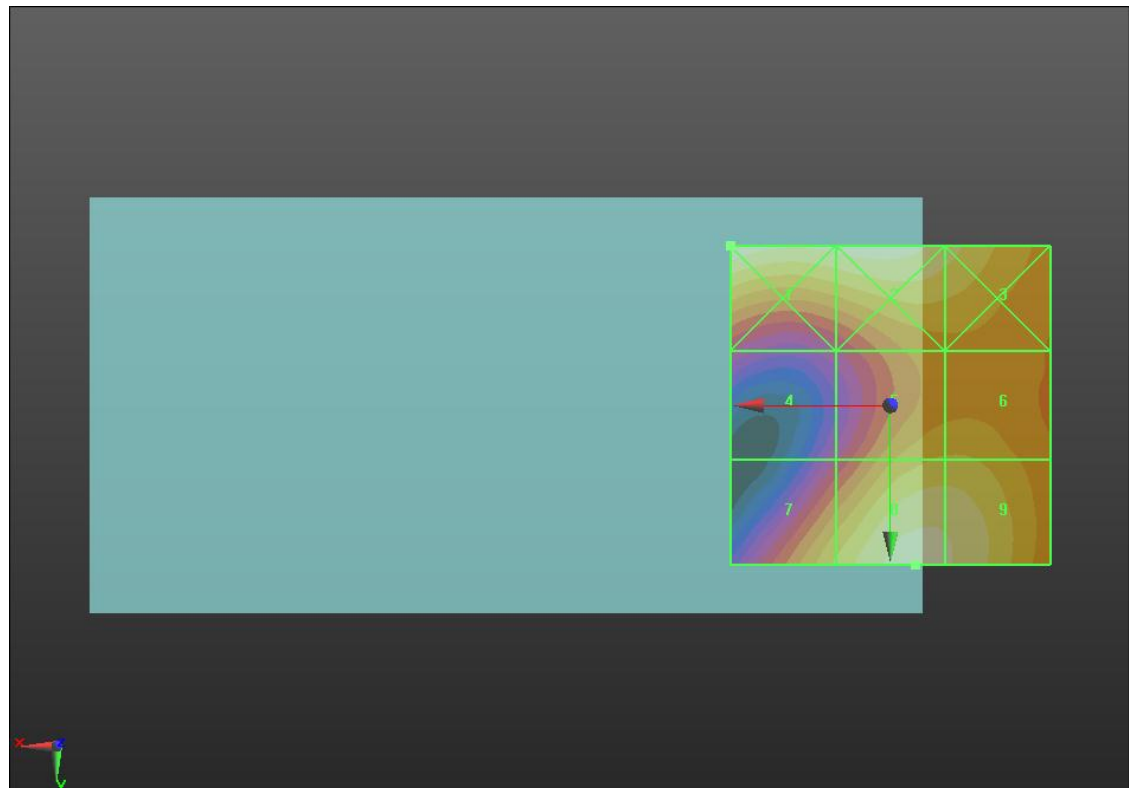
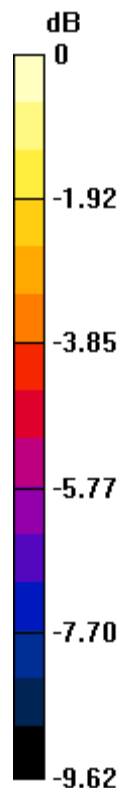
Applied MIF = 3.63 dB

RF audio interference level = 29.89 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M3 30.28 dBV/m	Grid 2 M3 30.03 dBV/m	Grid 3 M4 29.34 dBV/m
Grid 4 M4 25.22 dBV/m	Grid 5 M4 28.46 dBV/m	Grid 6 M4 28.48 dBV/m
Grid 7 M4 28.5 dBV/m	Grid 8 M4 29.89 dBV/m	Grid 9 M4 29.73 dBV/m



0 dB = 32.66 V/m = 30.28 dBV/m