

01 HAC RF_GSM850_GSM_Voice_Ch128_E

DUT: 331403-03

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz; Duty Cycle: 1:8

Medium: Air Medium parameters used: $\sigma = 0 \text{ S/m}$, $\epsilon_r = 1$; $\rho = 0 \text{ kg/m}^3$

Ambient Temperature : 23.3 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2476; ConvF(1, 1, 1); Calibrated: 2012-12-12;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013-6-19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch128/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 = 75.91 V/m; Power Drift = 0.01 dB

Applied MIF = 3.63 dB

RF audio interference level = 38.50 dBV/m

Emission category: M4

MIF scaled E-field

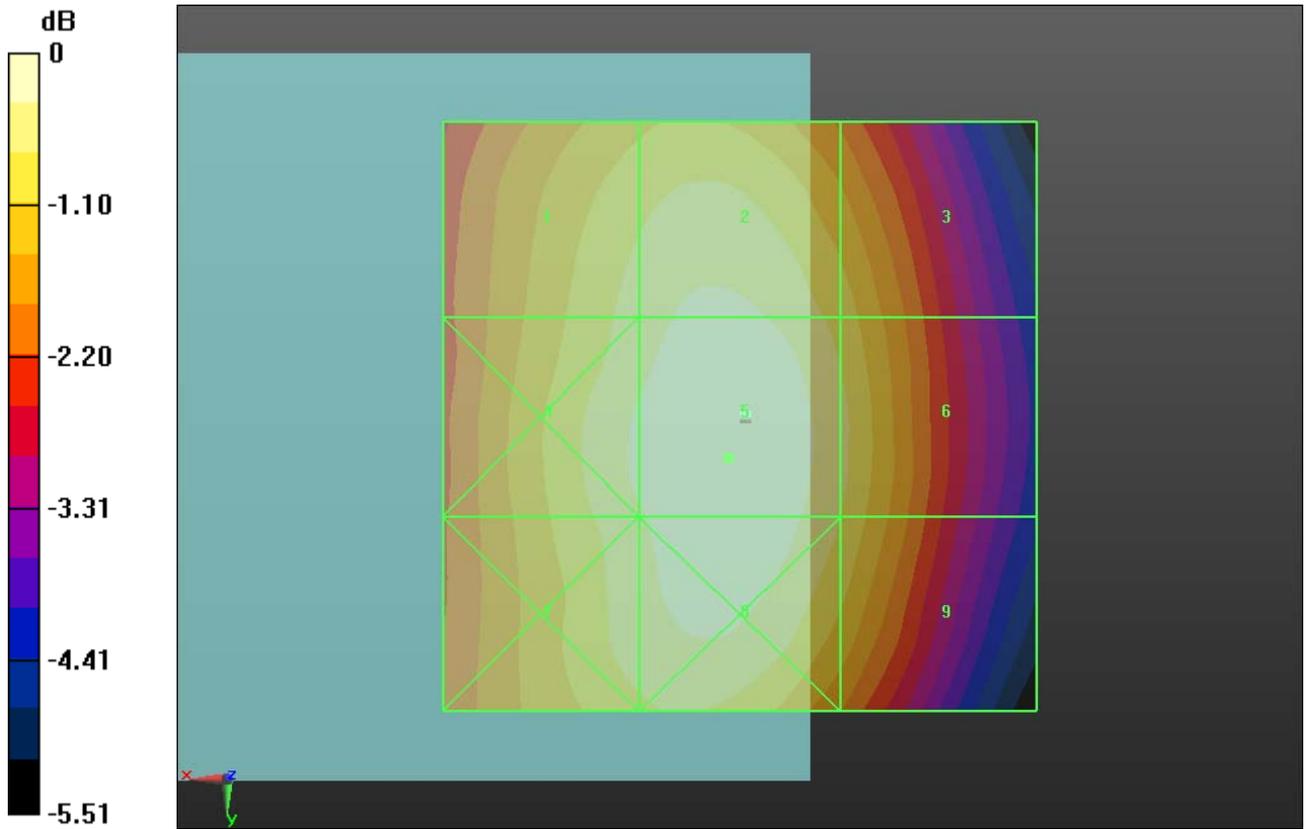
Grid 1 M4 37.94 dBV/m	Grid 2 M4 38.23 dBV/m	Grid 3 M4 37.61 dBV/m
Grid 4 M4 38.21 dBV/m	Grid 5 M4 38.5 dBV/m	Grid 6 M4 37.87 dBV/m
Grid 7 M4 38.08 dBV/m	Grid 8 M4 38.41 dBV/m	Grid 9 M4 37.76 dBV/m

Cursor:

Total = 38.50 dBV/m

E Category: M4

Location: 1, 3.5, 9.7 mm



0 dB = 84.12 V/m = 38.50 dBV/m

02 HAC RF_GSM850_GSM_Voice_Ch189_E

DUT: 331403-03

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.3 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2476; ConvF(1, 1, 1); Calibrated: 2012-12-12;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013-6-19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch189/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 = 92.55 V/m; Power Drift = 0.04 dB

Applied MIF = 3.63 dB

RF audio interference level = 40.29 dBV/m

Emission category: M3

MIF scaled E-field

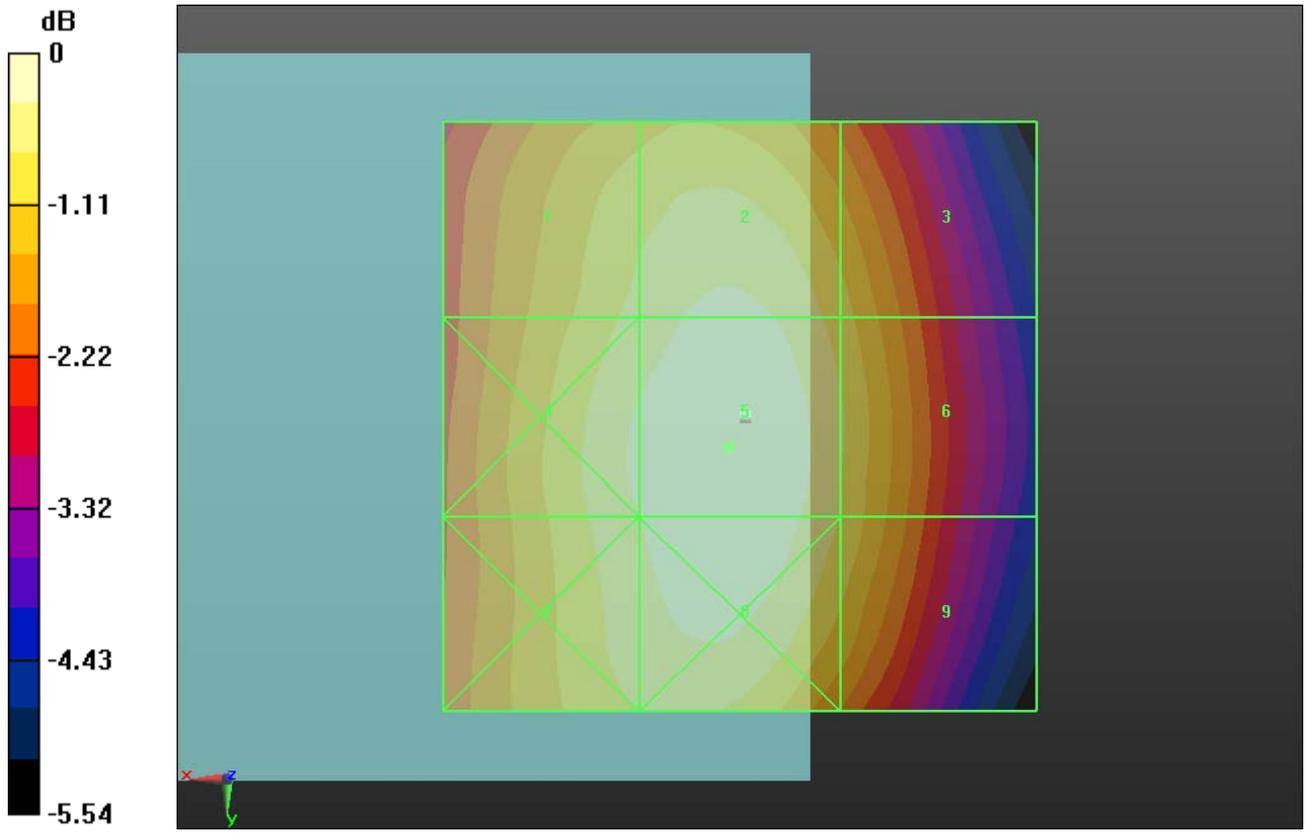
Grid 1 M4 39.68 dBV/m	Grid 2 M3 40.02 dBV/m	Grid 3 M4 39.36 dBV/m
Grid 4 M4 39.99 dBV/m	Grid 5 M3 40.29 dBV/m	Grid 6 M4 39.61 dBV/m
Grid 7 M4 39.91 dBV/m	Grid 8 M3 40.21 dBV/m	Grid 9 M4 39.52 dBV/m

Cursor:

Total = 40.29 dBV/m

E Category: M3

Location: 1, 2.5, 9.7 mm



0 dB = 103.4 V/m = 40.29 dBV/m

03 HAC RF_GSM850_GSM_Voice_Ch251_E

DUT: 331403-03

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 848.6 MHz; Duty Cycle: 1:8

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.3 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2476; ConvF(1, 1, 1); Calibrated: 2012-12-12;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013-6-19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch251/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 = 90.13 V/m; Power Drift = 0.028 dB

Applied MIF = 3.63 dB

RF audio interference level = 40.25 dBV/m

Emission category: M3

MIF scaled E-field

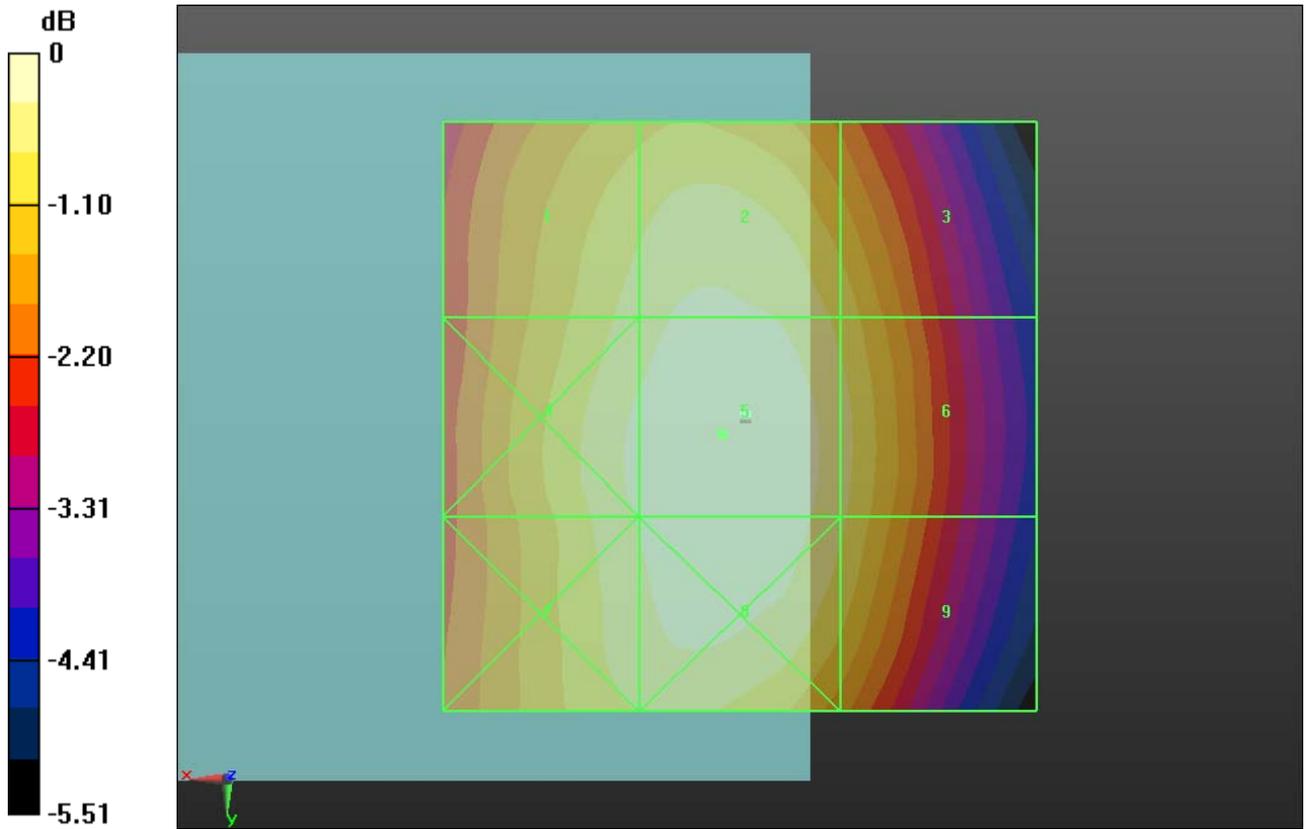
Grid 1 M4 39.69 dBV/m	Grid 2 M4 39.97 dBV/m	Grid 3 M4 39.4 dBV/m
Grid 4 M4 39.99 dBV/m	Grid 5 M3 40.25 dBV/m	Grid 6 M4 39.67 dBV/m
Grid 7 M4 39.91 dBV/m	Grid 8 M3 40.16 dBV/m	Grid 9 M4 39.58 dBV/m

Cursor:

Total = 40.25 dBV/m

E Category: M3

Location: 1.5, 1.5, 9.7 mm



0 dB = 102.9 V/m = 40.25 dBV/m

04 HAC RF_GSM1900_GSM_Voice_Ch512_E

DUT: 331403-03

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 1850.2 MHz; Duty Cycle: 1:8

Medium: Air Medium parameters used: $\sigma = 0 \text{ S/m}$, $\epsilon_r = 1$; $\rho = 0 \text{ kg/m}^3$

Ambient Temperature : 23.3 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2476; ConvF(1, 1, 1); Calibrated: 2012-12-12;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013-6-19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch512/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 = 21.79 V/m; Power Drift = 0.01 dB

Applied MIF = 3.63 dB

RF audio interference level = 31.16 dBV/m

Emission category: M3

MIF scaled E-field

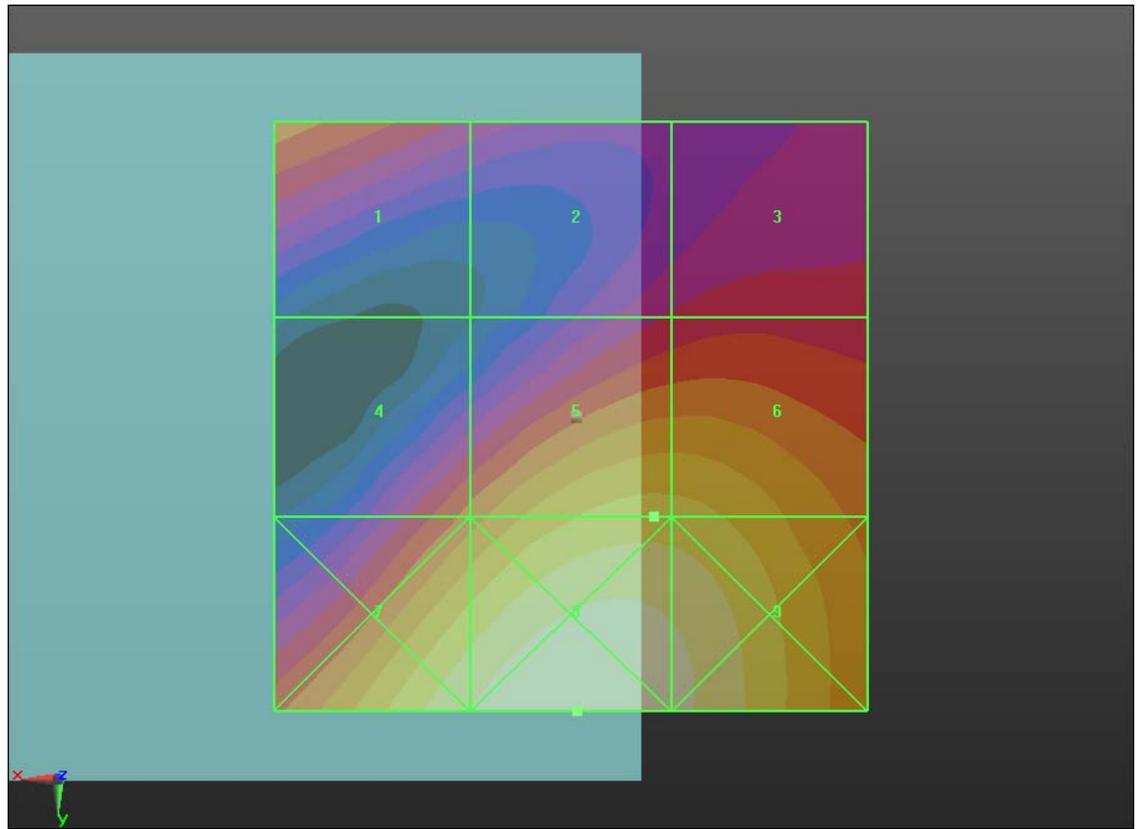
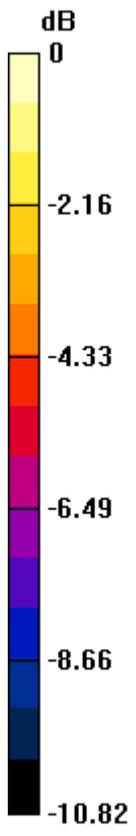
Grid 1 M4 29.07 dBV/m	Grid 2 M4 27.3 dBV/m	Grid 3 M4 27.71 dBV/m
Grid 4 M4 28.99 dBV/m	Grid 5 M3 31.16 dBV/m	Grid 6 M3 31.13 dBV/m
Grid 7 M3 32.25 dBV/m	Grid 8 M3 32.96 dBV/m	Grid 9 M3 32.48 dBV/m

Cursor:

Total = 32.96 dBV/m

E Category: M3

Location: -0.5, 25, 9.7 mm



0 dB = 44.45 V/m = 32.96 dBV/m

05 HAC RF_GSM1900_GSM_Voice_Ch661_E

DUT: 331403-03

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8

Medium: Air Medium parameters used: $\sigma = 0 \text{ S/m}$, $\epsilon_r = 1$; $\rho = 0 \text{ kg/m}^3$

Ambient Temperature : 23.3 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2476; ConvF(1, 1, 1); Calibrated: 2012-12-12;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013-6-19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch661/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 = 21.75 V/m; Power Drift = 0.03 dB

Applied MIF = 3.63 dB

RF audio interference level = 31.46 dBV/m

Emission category: M3

MIF scaled E-field

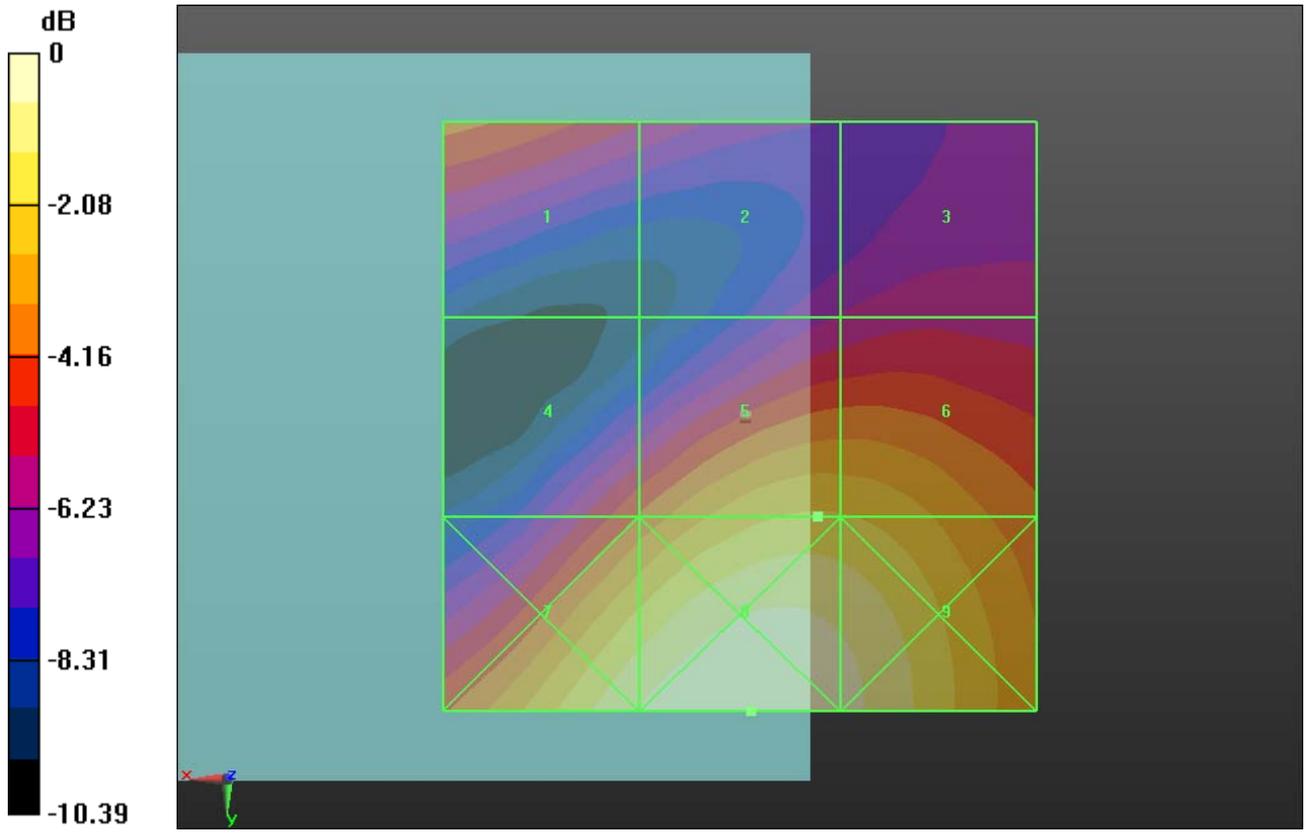
Grid 1 M4 29.52 dBV/m	Grid 2 M4 27.97 dBV/m	Grid 3 M4 27.75 dBV/m
Grid 4 M4 29.36 dBV/m	Grid 5 M3 31.46 dBV/m	Grid 6 M3 31.41 dBV/m
Grid 7 M3 32.76 dBV/m	Grid 8 M3 33.42 dBV/m	Grid 9 M3 32.98 dBV/m

Cursor:

Total = 33.42 dBV/m

E Category: M3

Location: -1, 25, 9.7 mm



0 dB = 46.89 V/m = 33.42 dBV/m

06 HAC RF_GSM1900_GSM_Voice_Ch810_E

DUT: 331403-03

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 1909.8 MHz; Duty Cycle: 1:8

Medium: Air Medium parameters used: $\sigma = 0 \text{ S/m}$, $\epsilon_r = 1$; $\rho = 0 \text{ kg/m}^3$

Ambient Temperature : 23.3 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2476; ConvF(1, 1, 1); Calibrated: 2012-12-12;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2013-6-19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch810/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 = 22.07 V/m; Power Drift = 0.02 dB

Applied MIF = 3.63 dB

RF audio interference level = 31.42 dBV/m

Emission category: M3

MIF scaled E-field

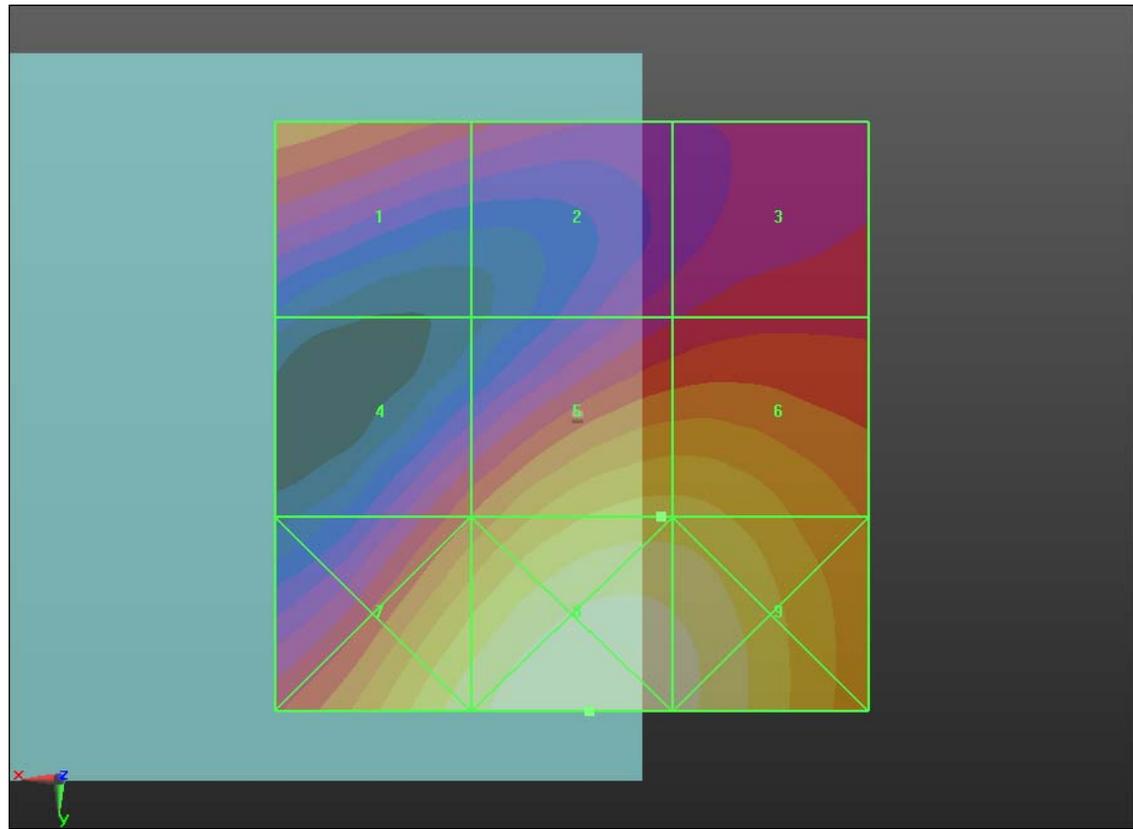
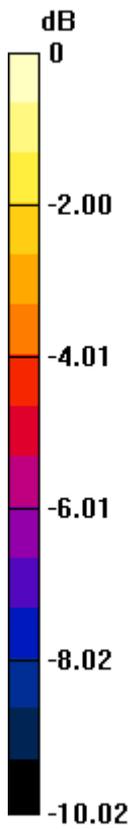
Grid 1 M4 29.59 dBV/m	Grid 2 M4 28.09 dBV/m	Grid 3 M4 28.28 dBV/m
Grid 4 M4 29.12 dBV/m	Grid 5 M3 31.42 dBV/m	Grid 6 M3 31.41 dBV/m
Grid 7 M3 32.22 dBV/m	Grid 8 M3 33.09 dBV/m	Grid 9 M3 32.7 dBV/m

Cursor:

Total = 33.09 dBV/m

E Category: M3

Location: -1.5, 25, 9.7 mm



0 dB = 45.14 V/m = 33.09 dBV/m