



Appendix B. Plots of RF Emission Measurement

The plots are shown as follows.

#01 HAC_E_GSM850_Ch128

DUT: 312522

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

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2013/1/21;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1279; Calibrated: 2013/1/28
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch128/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 72.40 V/m; Power Drift = 0.01 dB

Applied MIF = 3.63 dB

RF audio interference level = 38.73 dB V/m

Emission category: M4

MIF scaled E-field

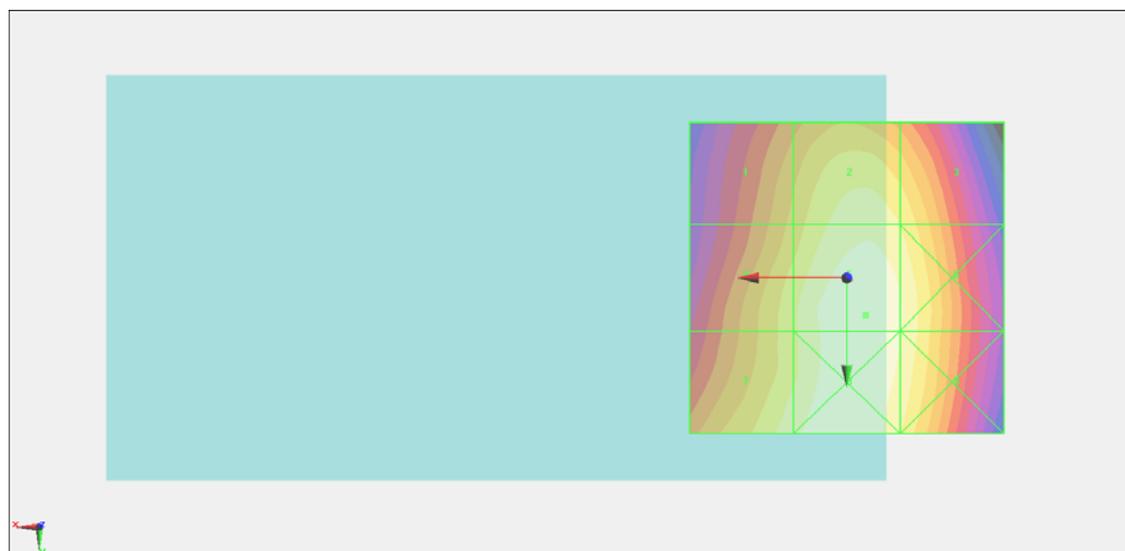
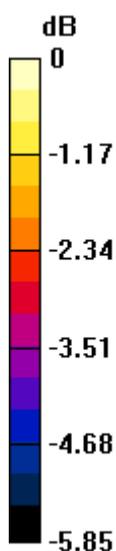
Grid 1 M4 37.33 dB V/m	Grid 2 M4 38.24 dB V/m	Grid 3 M4 37.95 dB V/m
Grid 4 M4 37.88 dB V/m	Grid 5 M4 38.73 dB V/m	Grid 6 M4 38.4 dB V/m
Grid 7 M4 38.23 dB V/m	Grid 8 M4 38.71 dB V/m	Grid 9 M4 38.37 dB V/m

Cursor:

Total = 38.73 dB V/m

E Category: M4

Location: -3, 6, 8.7 mm



0 dB = 86.43 V/m = 38.73 dB V/m

#02 HAC_E_GSM850_Ch189

DUT: 312522

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

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2013/1/21;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1279; Calibrated: 2013/1/28
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch189/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 65.12 V/m; Power Drift = 0.03 dB

Applied MIF = 3.63 dB

RF audio interference level = 37.77 dB V/m

Emission category: M4

MIF scaled E-field

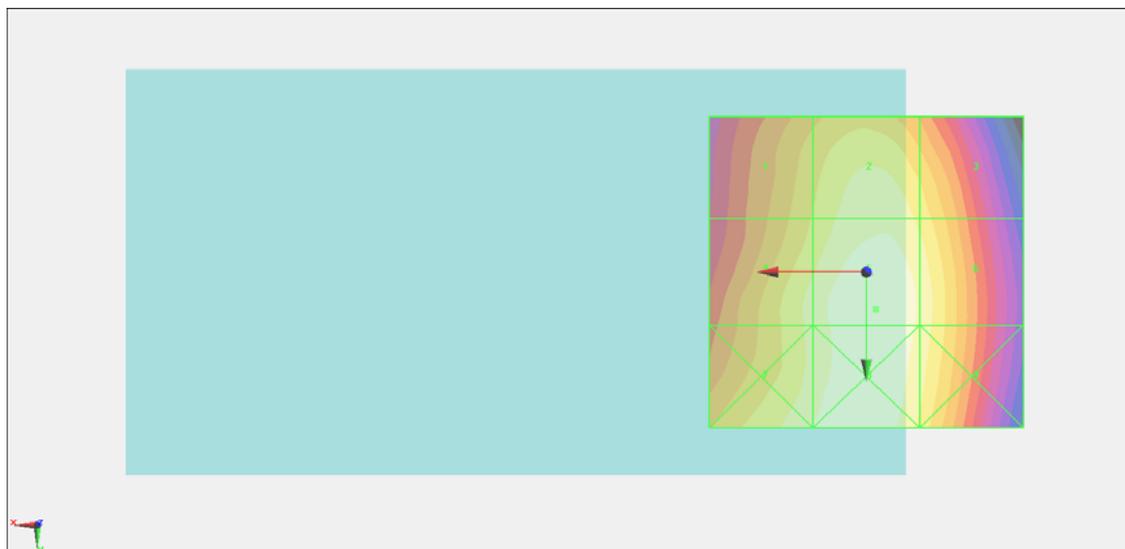
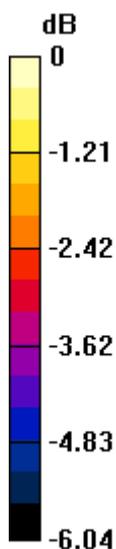
Grid 1 M4 36.61 dB V/m	Grid 2 M4 37.3 dB V/m	Grid 3 M4 36.86 dB V/m
Grid 4 M4 37.14 dB V/m	Grid 5 M4 37.77 dB V/m	Grid 6 M4 37.31 dB V/m
Grid 7 M4 37.4 dB V/m	Grid 8 M4 37.74 dB V/m	Grid 9 M4 37.26 dB V/m

Cursor:

Total = 37.77 dB V/m

E Category: M4

Location: -1.5, 6, 8.7 mm



0 dB = 77.34 V/m = 37.77 dB V/m

#03 HAC_E_GSM850_Ch251

DUT: 312522

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

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2013/1/21;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1279; Calibrated: 2013/1/28
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch251/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 72.17 V/m; Power Drift = -0.14 dB

Applied MIF = 3.63 dB

RF audio interference level = 38.62 dB V/m

Emission category: M4

MIF scaled E-field

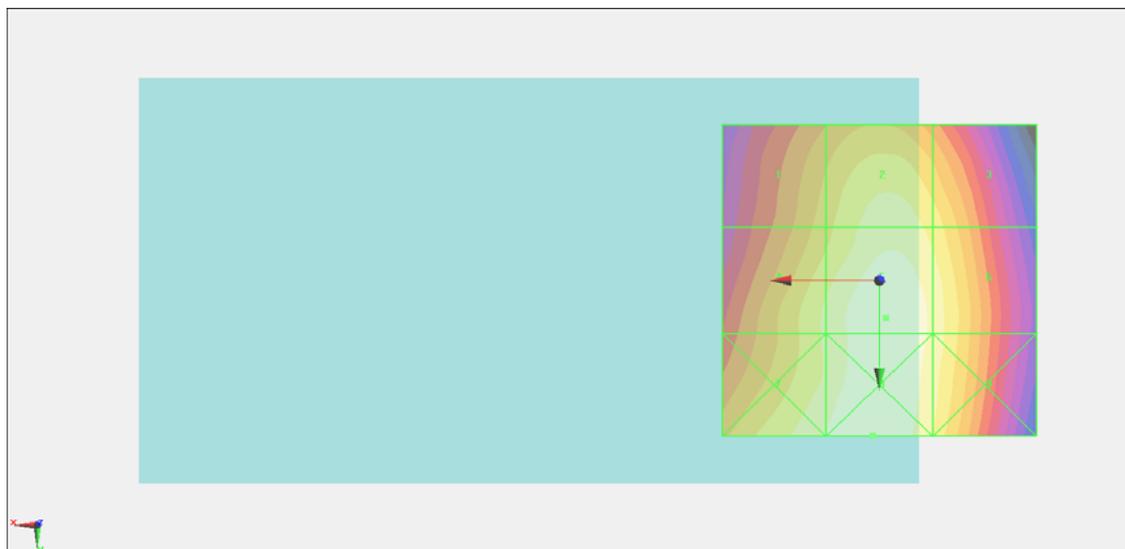
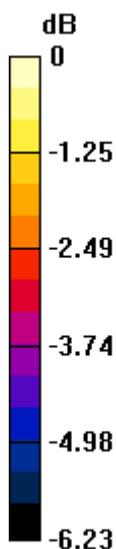
Grid 1 M4 37.3 dB V/m	Grid 2 M4 38.11 dB V/m	Grid 3 M4 37.7 dB V/m
Grid 4 M4 37.95 dB V/m	Grid 5 M4 38.62 dB V/m	Grid 6 M4 38.15 dB V/m
Grid 7 M4 38.31 dB V/m	Grid 8 M4 38.67 dB V/m	Grid 9 M4 38.14 dB V/m

Cursor:

Total = 38.67 dB V/m

E Category: M4

Location: 1, 25, 8.7 mm



0 dB = 85.85 V/m = 38.67 dB V/m

#04 HAC_E_GSM1900_GSM_Ch512

DUT: 312522

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

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2013/1/21;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1279; Calibrated: 2013/1/28
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch512/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 26.80 V/m; Power Drift = 0.17 dB

Applied MIF = 3.63 dB

RF audio interference level = 32.15 dB V/m

Emission category: M3

MIF scaled E-field

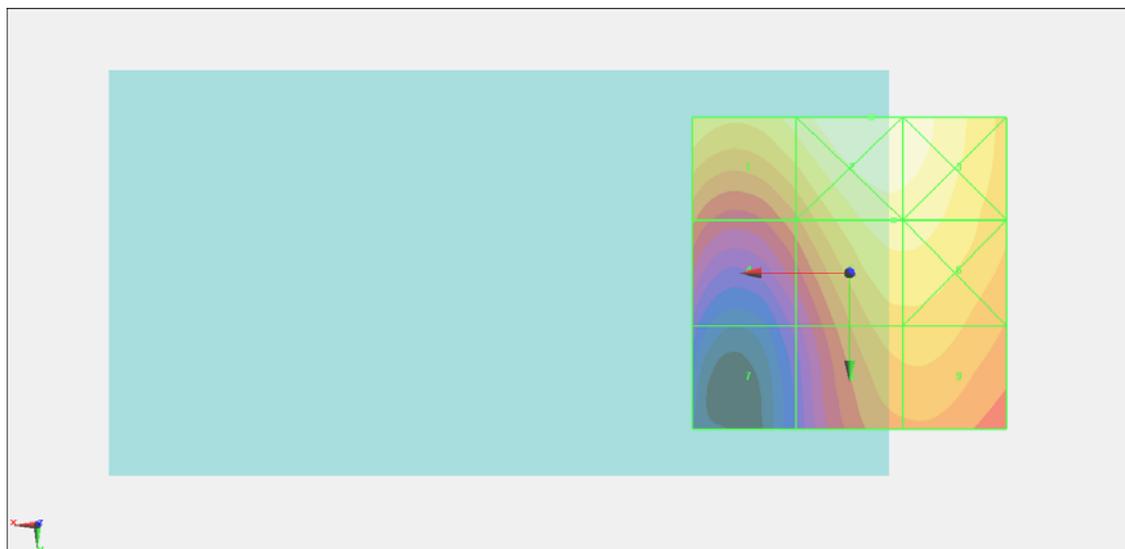
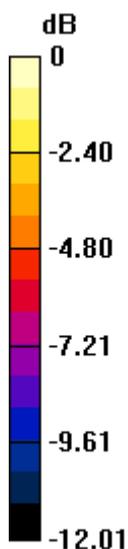
Grid 1 M3 32.07 dB V/m	Grid 2 M3 33.3 dB V/m	Grid 3 M3 33.06 dB V/m
Grid 4 M4 29.14 dB V/m	Grid 5 M3 32.15 dB V/m	Grid 6 M3 32.12 dB V/m
Grid 7 M4 25.78 dB V/m	Grid 8 M3 30.61 dB V/m	Grid 9 M3 30.64 dB V/m

Cursor:

Total = 33.30 dB V/m

E Category: M3

Location: -3.5, -25, 8.7 mm



0 dB = 46.25 V/m = 33.30 dB V/m

#05 HAC_E_GSM1900_GSM_Ch661

DUT: 312522

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

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2013/1/21;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1279; Calibrated: 2013/1/28
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch661/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 27.30 V/m; Power Drift = -0.05 dB

Applied MIF = 3.63 dB

RF audio interference level = 31.77 dB V/m

Emission category: M3

MIF scaled E-field

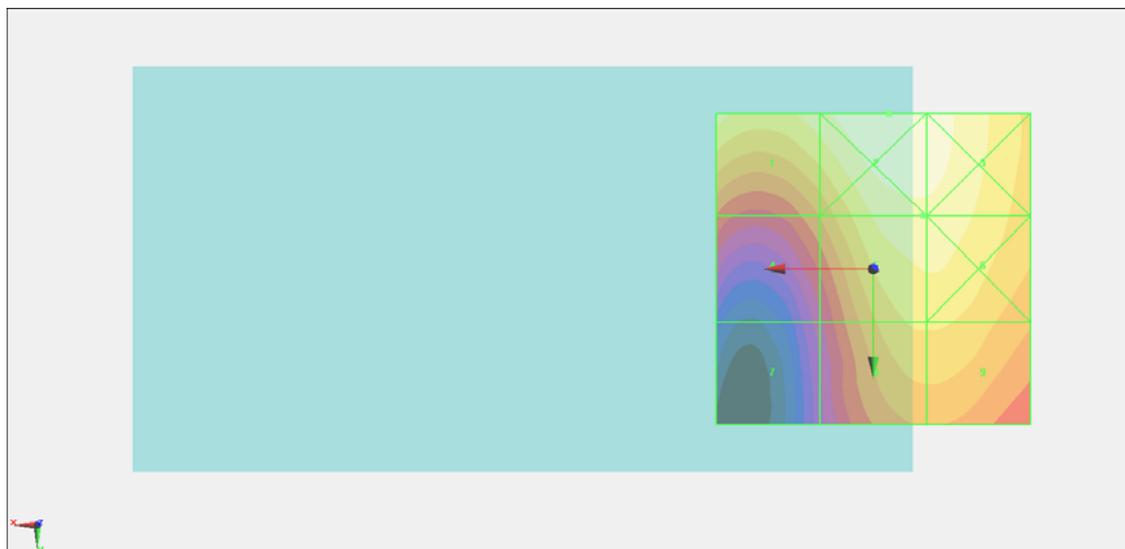
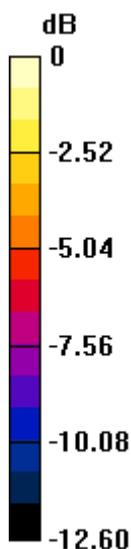
Grid 1 M3 31.69 dB V/m	Grid 2 M3 32.83 dB V/m	Grid 3 M3 32.55 dB V/m
Grid 4 M4 28.7 dB V/m	Grid 5 M3 31.77 dB V/m	Grid 6 M3 31.77 dB V/m
Grid 7 M4 25.88 dB V/m	Grid 8 M3 30.45 dB V/m	Grid 9 M3 30.45 dB V/m

Cursor:

Total = 32.83 dB V/m

E Category: M3

Location: -2.5, -25, 8.7 mm



0 dB = 43.80 V/m = 32.83 dB V/m

#06 HAC_E_GSM1900_GSM_Ch810

DUT: 312522

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

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2013/1/21;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1279; Calibrated: 2013/1/28
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch810/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 24.75 V/m; Power Drift = -0.03 dB

Applied MIF = 3.63 dB

RF audio interference level = 30.67 dB V/m

Emission category: M3

MIF scaled E-field

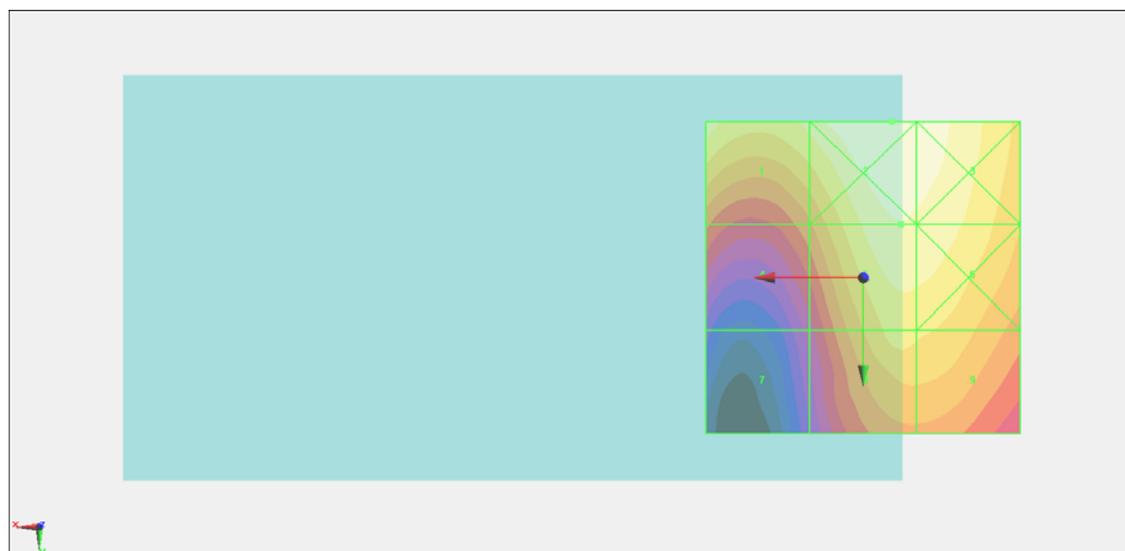
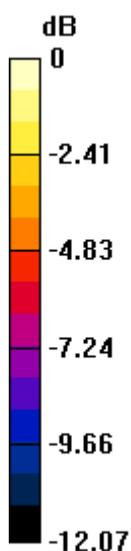
Grid 1 M3 30.41 dB V/m	Grid 2 M3 31.51 dB V/m	Grid 3 M3 31.27 dB V/m
Grid 4 M4 27.37 dB V/m	Grid 5 M3 30.67 dB V/m	Grid 6 M3 30.56 dB V/m
Grid 7 M4 24.78 dB V/m	Grid 8 M4 29.46 dB V/m	Grid 9 M4 29.29 dB V/m

Cursor:

Total = 31.51 dB V/m

E Category: M3

Location: -4.5, -25, 8.7 mm



0 dB = 37.61 V/m = 31.51 dB V/m

#07 HAC_E_WCDMA V_RMC12.2K_Ch4132

DUT: 312522

Communication System: UMTS-FDD (WCDMA); Frequency: 826.4 MHz; Duty Cycle: 1:1.95434

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2013/1/21;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1279; Calibrated: 2013/1/28
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch4132/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 74.67 V/m; Power Drift = -0.06 dB

Applied MIF = -27.23 dB

RF audio interference level = 8.08 dB V/m

Emission category: M4

MIF scaled E-field

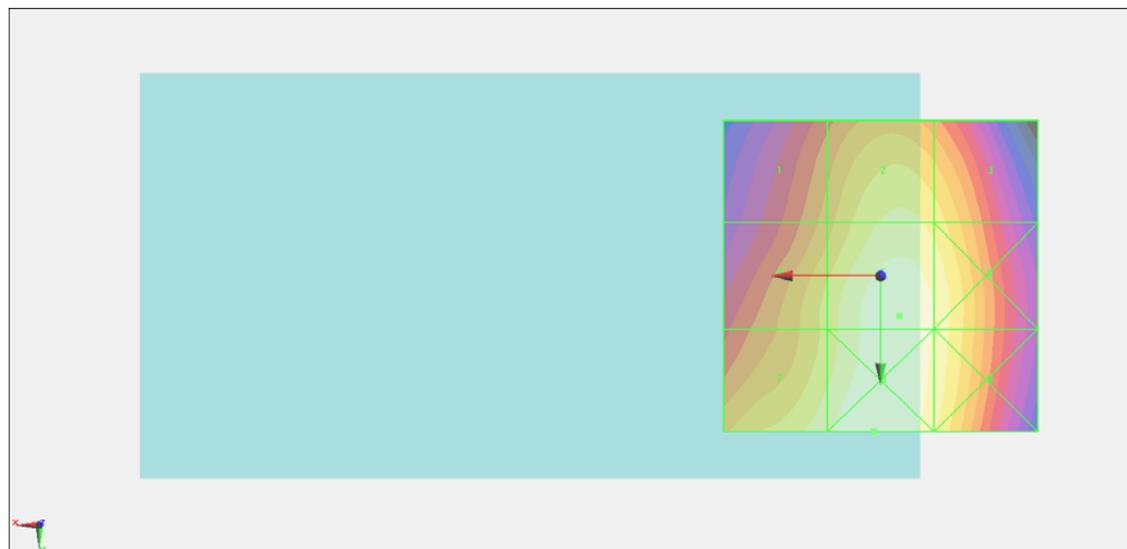
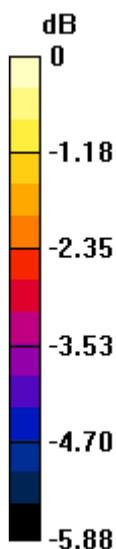
Grid 1 M4 6.44 dB V/m	Grid 2 M4 7.52 dB V/m	Grid 3 M4 7.25 dB V/m
Grid 4 M4 7.17 dB V/m	Grid 5 M4 8.08 dB V/m	Grid 6 M4 7.77 dB V/m
Grid 7 M4 7.7 dB V/m	Grid 8 M4 8.17 dB V/m	Grid 9 M4 7.75 dB V/m

Cursor:

Total = 8.17 dB V/m

E Category: M4

Location: 1, 25, 8.7 mm



0 dB = 2.562 V/m = 8.17 dB V/m

#08 HAC_E_WCDMA V_RMC12.2K_Ch4182

DUT: 312522

Communication System: UMTS-FDD (WCDMA); Frequency: 836.4 MHz; Duty Cycle: 1:1.95434

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2013/1/21;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1279; Calibrated: 2013/1/28
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch4182/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 73.46 V/m; Power Drift = -0.17 dB

Applied MIF = -27.23 dB

RF audio interference level = 7.85 dB V/m

Emission category: M4

MIF scaled E-field

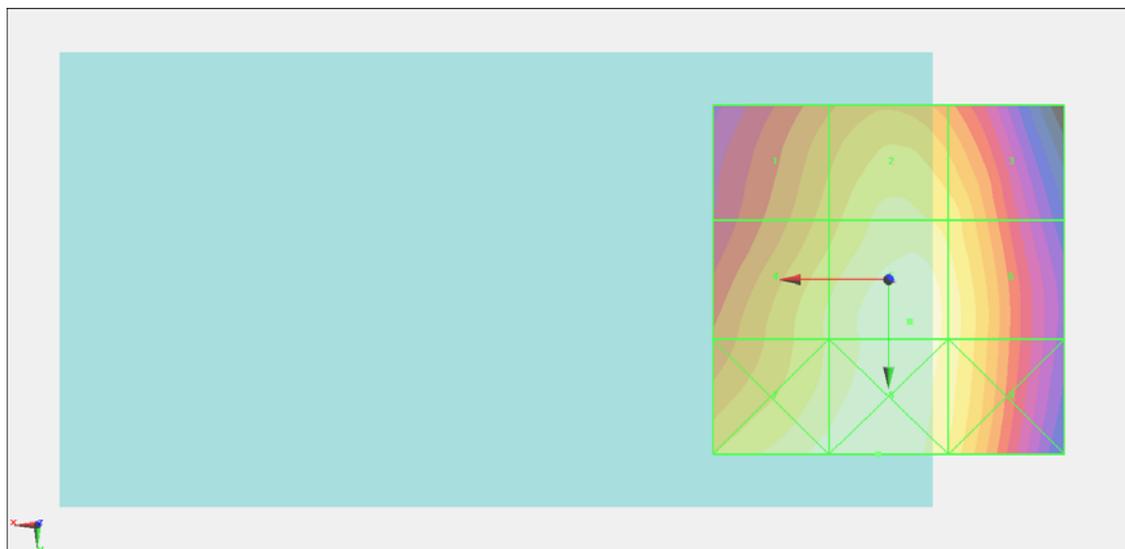
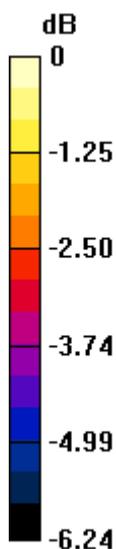
Grid 1 M4 6.55 dB V/m	Grid 2 M4 7.33 dB V/m	Grid 3 M4 6.99 dB V/m
Grid 4 M4 7.22 dB V/m	Grid 5 M4 7.85 dB V/m	Grid 6 M4 7.44 dB V/m
Grid 7 M4 7.73 dB V/m	Grid 8 M4 7.97 dB V/m	Grid 9 M4 7.41 dB V/m

Cursor:

Total = 7.97 dB V/m

E Category: M4

Location: 1.5, 25, 8.7 mm



0 dB = 2.503 V/m = 7.97 dB V/m

#09 HAC_E_WCDMA V_RMC12.2K_Ch4233

DUT: 312522

Communication System: UMTS-FDD (WCDMA); Frequency: 846.6 MHz; Duty Cycle: 1:1.95434

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2013/1/21;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1279; Calibrated: 2013/1/28
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch4233/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 85.49 V/m; Power Drift = -0.12 dB

Applied MIF = -27.23 dB

RF audio interference level = 9.24 dB V/m

Emission category: M4

MIF scaled E-field

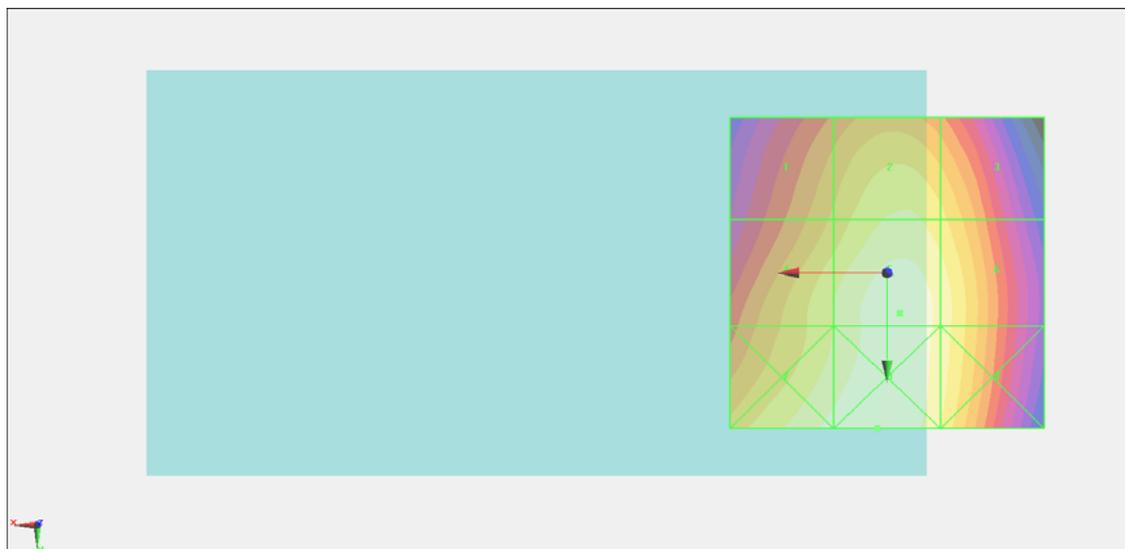
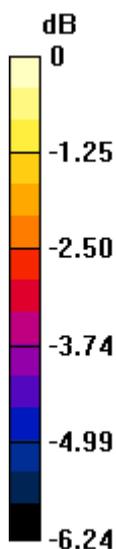
Grid 1 M4 7.83 dB V/m	Grid 2 M4 8.64 dB V/m	Grid 3 M4 8.29 dB V/m
Grid 4 M4 8.58 dB V/m	Grid 5 M4 9.24 dB V/m	Grid 6 M4 8.84 dB V/m
Grid 7 M4 9.11 dB V/m	Grid 8 M4 9.38 dB V/m	Grid 9 M4 8.81 dB V/m

Cursor:

Total = 9.38 dB V/m

E Category: M4

Location: 1.5, 25, 8.7 mm



0 dB = 2.944 V/m = 9.38 dB V/m

#10 HAC_E_WCDMA II_RMC12.2K_Ch9262

DUT: 312522

Communication System: UMTS-FDD (WCDMA); Frequency: 1852.4 MHz; Duty Cycle: 1:1.95434

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2013/1/21;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1279; Calibrated: 2013/1/28
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch9262/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 33.07 V/m; Power Drift = 0.11 dB

Applied MIF = -27.23 dB

RF audio interference level = 3.29 dB V/m

Emission category: M4

MIF scaled E-field

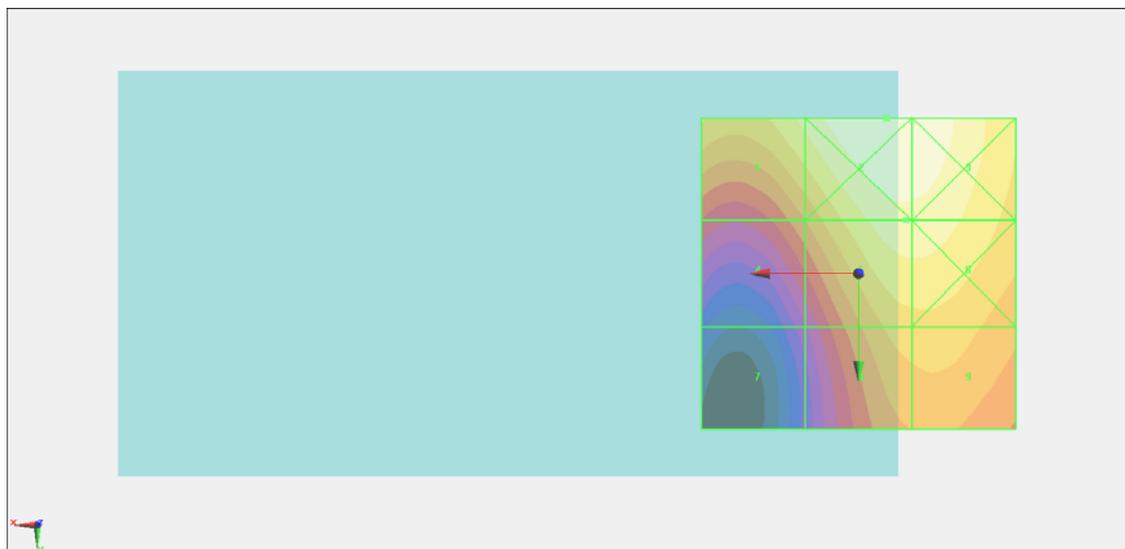
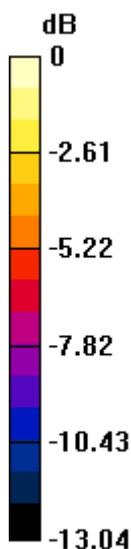
Grid 1 M4 2.98 dB V/m	Grid 2 M4 4.43 dB V/m	Grid 3 M4 4.33 dB V/m
Grid 4 M4 0.08 dB V/m	Grid 5 M4 3.29 dB V/m	Grid 6 M4 3.28 dB V/m
Grid 7 M4 -3.45 dB V/m	Grid 8 M4 1.5 dB V/m	Grid 9 M4 1.57 dB V/m

Cursor:

Total = 4.43 dB V/m

E Category: M4

Location: -4.5, -25, 8.7 mm



0 dB = 1.666 V/m = 4.43 dB V/m

#11 HAC_E_WCDMA_II_RMC12.2K_Ch9400

DUT: 312522

Communication System: UMTS-FDD (WCDMA); Frequency: 1880 MHz; Duty Cycle: 1:1.95434

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2013/1/21;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1279; Calibrated: 2013/1/28
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch9400/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 33.73 V/m; Power Drift = -0.06 dB

Applied MIF = -27.23 dB

RF audio interference level = 3.06 dB V/m

Emission category: M4

MIF scaled E-field

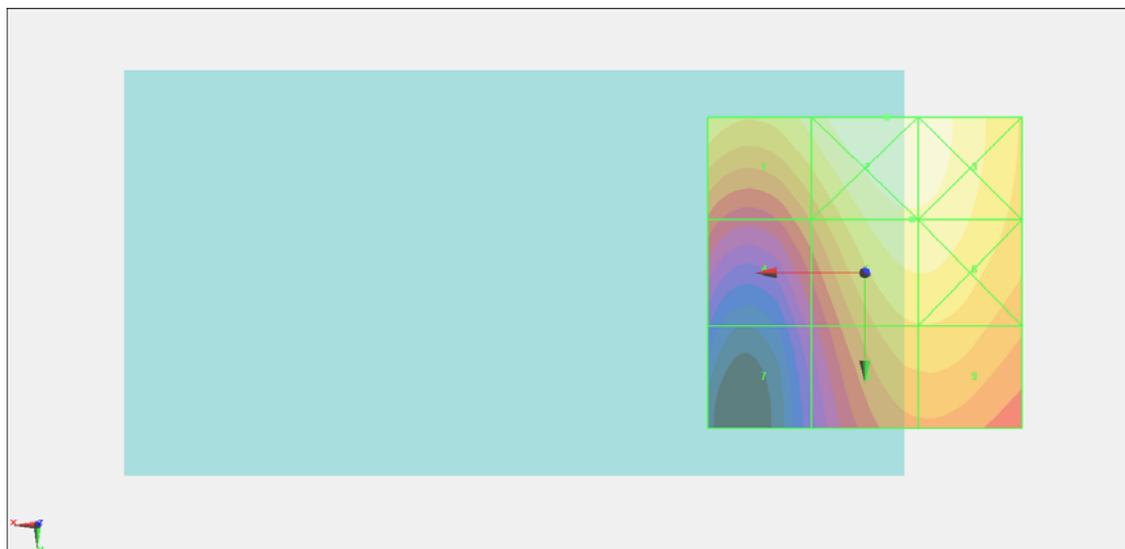
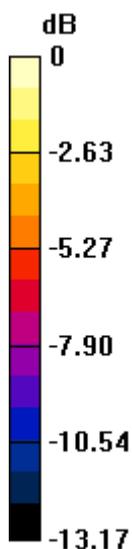
Grid 1 M4 2.73 dB V/m	Grid 2 M4 4.07 dB V/m	Grid 3 M4 3.87 dB V/m
Grid 4 M4 -0.21 dB V/m	Grid 5 M4 3.06 dB V/m	Grid 6 M4 3.05 dB V/m
Grid 7 M4 -3.34 dB V/m	Grid 8 M4 1.4 dB V/m	Grid 9 M4 1.42 dB V/m

Cursor:

Total = 4.07 dB V/m

E Category: M4

Location: -3.5, -25, 8.7 mm



0 dB = 1.599 V/m = 4.08 dB V/m

#12 HAC_E_WCDMA II_RMC12.2K_Ch9538

DUT: 312522

Communication System: UMTS-FDD (WCDMA); Frequency: 1907.6 MHz; Duty Cycle: 1:1.95434

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2013/1/21;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1279; Calibrated: 2013/1/28
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch9538/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 28.71 V/m; Power Drift = 0.05 dB

Applied MIF = -27.23 dB

RF audio interference level = 1.56 dB V/m

Emission category: M4

MIF scaled E-field

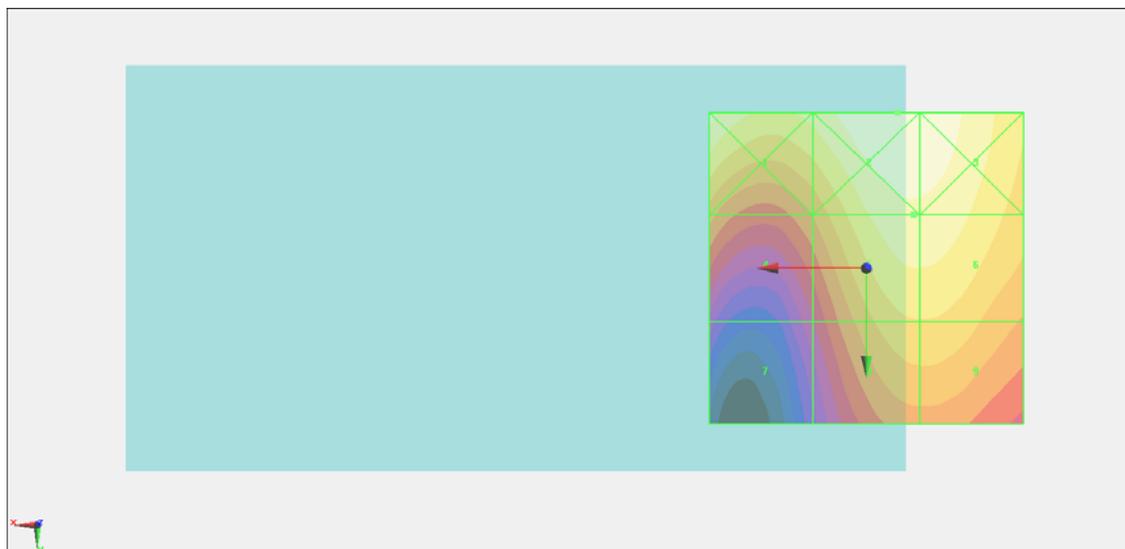
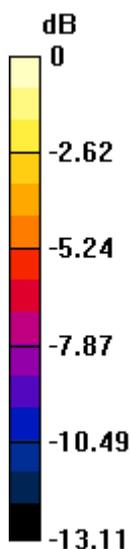
Grid 1 M4 2.1 dB V/m	Grid 2 M4 2.62 dB V/m	Grid 3 M4 2.48 dB V/m
Grid 4 M4 -1.32 dB V/m	Grid 5 M4 1.56 dB V/m	Grid 6 M4 1.54 dB V/m
Grid 7 M4 -4.4 dB V/m	Grid 8 M4 -0.03 dB V/m	Grid 9 M4 -0.03 dB V/m

Cursor:

Total = 2.62 dB V/m

E Category: M4

Location: -5, -25, 8.7 mm



0 dB = 1.352 V/m = 2.62 dB V/m