



Appendix A

Detailed System Check Results

1. System Check Results
System Performance Check 835 MHz
System Performance Check 1880 MHz
System Performance Check 2600 MHz

Test Laboratory: SGS-SAR Lab

HAC-E-Dipole CD835V3

DUT: CD835V3; Type: CD835V3; Serial: 1052

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

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

DASY 5 Configuration:

- Probe: EF3DV3 - SN4051; ConvF(1, 1, 1); Calibrated: 2020-05-29;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn896; Calibrated: 2020-06-11
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD835 = 15mm/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 = 181.0 V/m; Power Drift = -0.04 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 106.8 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

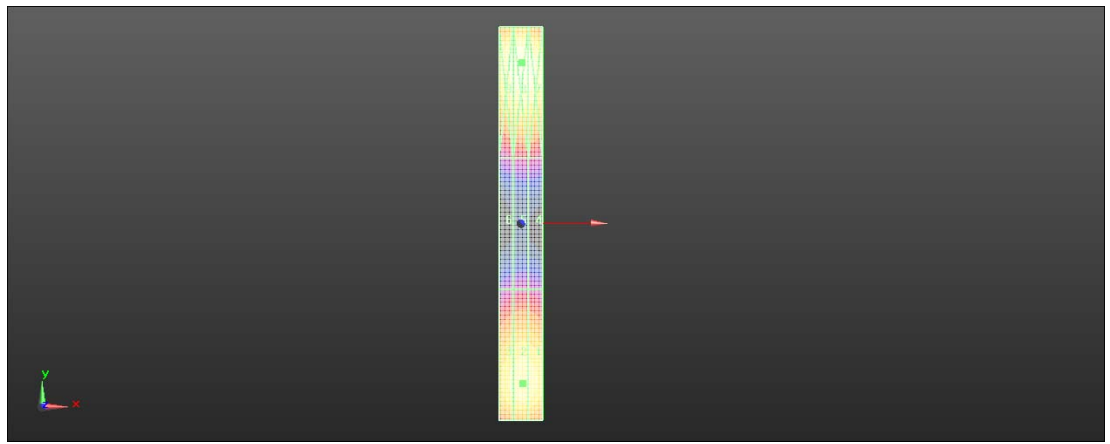
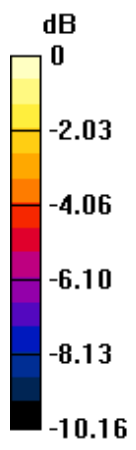
Grid 1 M4 106.0 V/m	Grid 2 M4 106.8 V/m	Grid 3 M4 103.7 V/m
Grid 4 M4 63.38 V/m	Grid 5 M4 63.47 V/m	Grid 6 M4 61.19 V/m
Grid 7 M4 115.0 V/m	Grid 8 M4 116.8 V/m	Grid 9 M4 112.8 V/m

Cursor:

Total = 116.8 V/m

E Category: M4

Location: 0.5, 73.5, 8.7 mm



0 dB = 116.8 V/m = 41.35 dBV/m

Test Laboratory: SGS-SAR Lab

HAC-E-Dipole CD835V3

DUT: CD835V3; Type: CD835V3; Serial: 1052

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

Medium: Air; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
Phantom section: RF Section

DASY 5 Configuration:

- Probe: EF3DV3 - SN4051; ConvF(1, 1, 1); Calibrated: 2020-05-29;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn896; Calibrated: 2020-06-11
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD835 = 15mm/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 = 127.8 V/m; Power Drift = -0.05 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 110.8 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

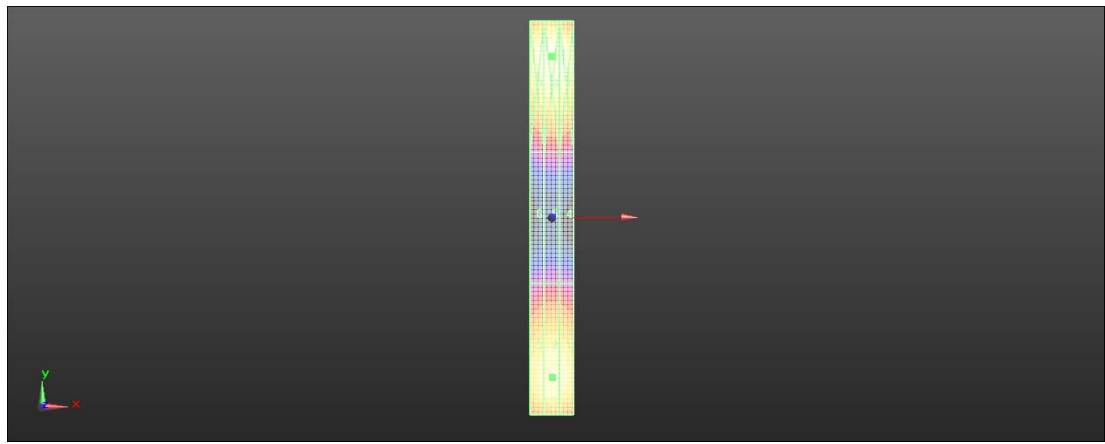
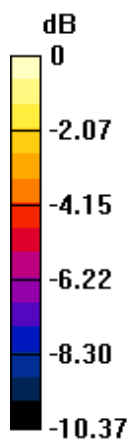
Grid 1 M4 109.2 V/m	Grid 2 M4 110.8 V/m	Grid 3 M4 107.8 V/m
Grid 4 M4 62.97 V/m	Grid 5 M4 63.33 V/m	Grid 6 M4 61.58 V/m
Grid 7 M4 116.6 V/m	Grid 8 M4 118.8 V/m	Grid 9 M4 115.8 V/m

Cursor:

Total = 118.8 V/m

E Category: M4

Location: 0, 73.5, 8.7 mm



0 dB = 118.8 V/m = 41.50 dBV/m

Test Laboratory: SGS-SAR Lab

HAC-E-Dipole CD1880V3

DUT: CD1880V3; Type: CD1880V3; Serial: 1044

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

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

DASY 5 Configuration:

- Probe: EF3DV3 - SN4051; ConvF(1, 1, 1); Calibrated: 2020-05-29;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn896; Calibrated: 2020-06-11
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 = 15mm/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 = 156.3 V/m; Power Drift = 0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 86.37 V/m

Near-field category: M3 (AWF 0 dB)

PMF scaled E-field

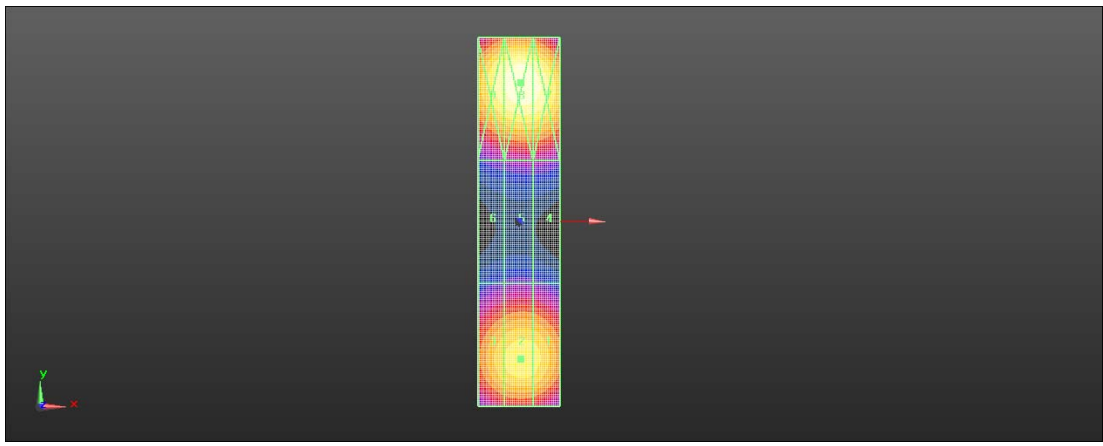
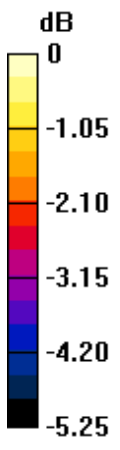
Grid 1 M3 85.55 V/m	Grid 2 M3 86.37 V/m	Grid 3 M3 83.89 V/m
Grid 4 M3 65.61 V/m	Grid 5 M3 65.62 V/m	Grid 6 M3 64.16 V/m
Grid 7 M3 93.06 V/m	Grid 8 M3 94.31 V/m	Grid 9 M3 91.18 V/m

Cursor:

Total = 94.31 V/m

E Category: M3

Location: 0.5, 34, 8.7 mm



0 dB = 94.31 V/m = 39.49 dBV/m

Test Laboratory: SGS-SAR Lab

HAC-E-Dipole CD1880V3

DUT: CD1880V3; Type: CD1880V3; Serial: 1044

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

Medium: Air; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
Phantom section: RF Section

DASY 5 Configuration:

- Probe: EF3DV3 - SN4051; ConvF(1, 1, 1); Calibrated: 2020-05-29;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn896; Calibrated: 2020-06-11
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 = 15mm/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 = 156.7 V/m; Power Drift = -0.07 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 90.50 V/m

Near-field category: M3 (AWF 0 dB)

PMF scaled E-field

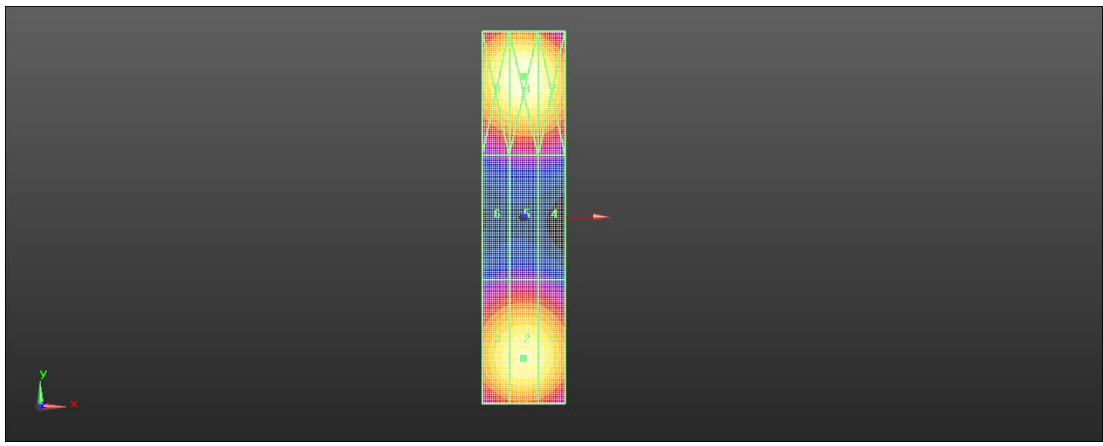
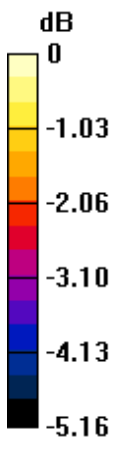
Grid 1 M3 88.87 V/m	Grid 2 M3 90.50 V/m	Grid 3 M3 88.51 V/m
Grid 4 M3 65.20 V/m	Grid 5 M3 65.40 V/m	Grid 6 M3 64.50 V/m
Grid 7 M3 91.42 V/m	Grid 8 M3 93.53 V/m	Grid 9 M3 91.56 V/m

Cursor:

Total = 93.53 V/m

E Category: M3

Location: 0, 34, 8.7 mm



0 dB = 93.53 V/m = 39.42 dBV/m

Test Laboratory: SGS-SAR Lab

HAC-E-Dipole CD2600V3

DUT: CD2600V3; Type: CD2600V3; Serial: 1021

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

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

DASY 5 Configuration:

- Probe: EF3DV3 - SN4051; ConvF(1, 1, 1); Calibrated: 2020-05-29;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn896; Calibrated: 2020-06-11
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD2600 = 15mm/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 = 66.79 V/m; Power Drift = 0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 84.15 V/m

Near-field category: M3 (AWF 0 dB)

PMF scaled E-field

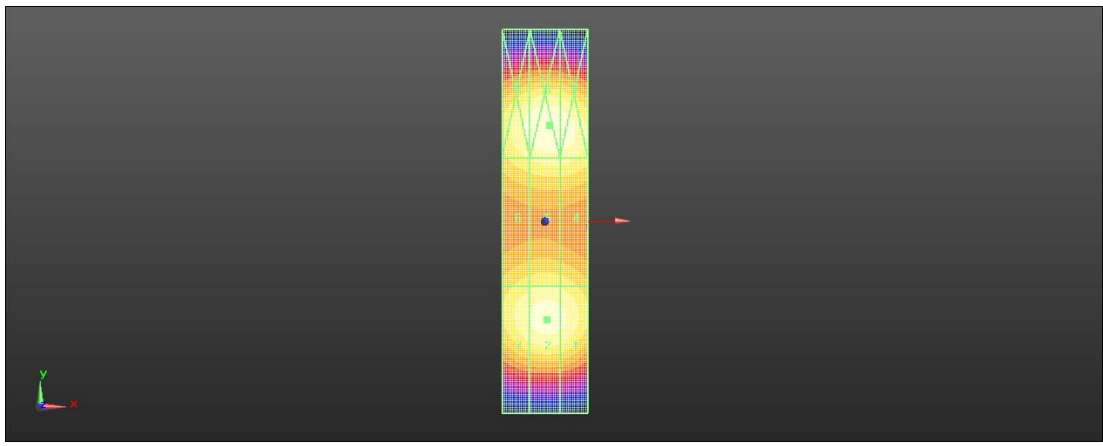
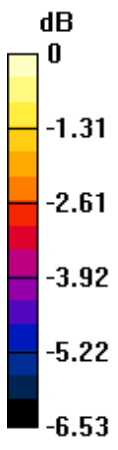
Grid 1 M3 83.17 V/m	Grid 2 M3 84.15 V/m	Grid 3 M3 82.19 V/m
Grid 4 M3 80.28 V/m	Grid 5 M3 80.42 V/m	Grid 6 M3 78.61 V/m
Grid 7 M3 85.39 V/m	Grid 8 M3 86.09 V/m	Grid 9 M3 83.76 V/m

Cursor:

Total = 86.09 V/m

E Category: M3

Location: 1, 22.5, 8.7 mm



0 dB = 86.09 V/m = 38.70 dBV/m