Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2023/2/27

HAC_E_Dipole_835

DUT: HAC-Dipole 835 MHz

Communication System: UID 0, CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.3 ℃;

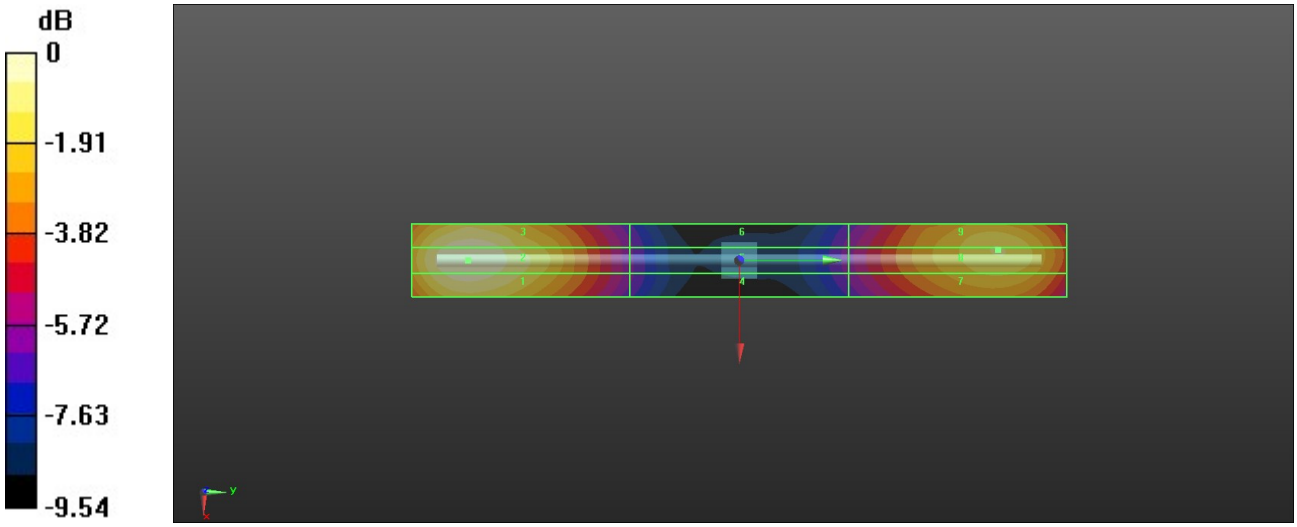
DASY5 Configuration:
-Probe: EF3DV3 - SN4050; ConvF(1, 1, 1); Calibrated: 2023/1/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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 = 123.2 V/m; Power Drift = -0.07 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 110.1 V/m
Average value of Total=(110.1+96.50)/2=103.3 V/m

PMF scaled E-field

Grid 1 **M4** **106.5 V/m**	Grid 2 **M4** **110.1 V/m**	Grid 3 **M4** **106.8 V/m**
Grid 4 **M4** **55.45 V/m**	Grid 5 **M4** **56.77 V/m**	Grid 6 **M4** **55.56 V/m**
Grid 7 **M4** **89.84 V/m**	Grid 8 **M4** **96.50 V/m**	Grid 9 **M4** **95.17 V/m**

Total = 110.1 V/m
E Category: M4
Location: 0, -74.5, 9.7 mm



0 dB = 110.1 V/m = 41.23 dBV/m

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2023/2/27

HAC_E_Dipole_1880

DUT: HAC Dipole 1880 MHz

Communication System: UID 0, CW; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.3 ℃;

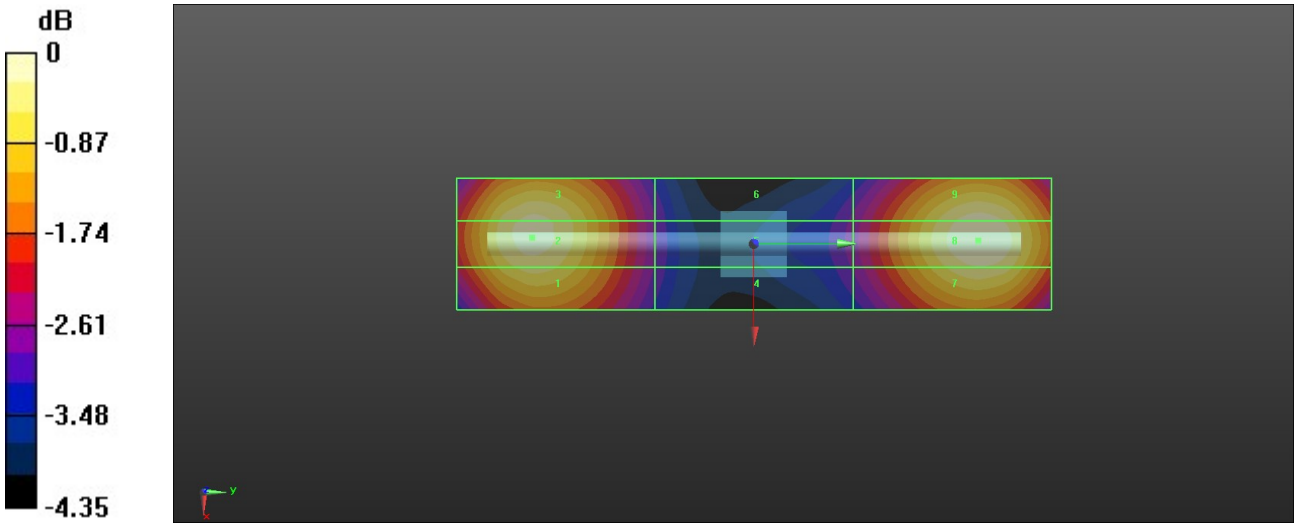
DASY5 Configuration:
- Probe: EF3DV3 - SN4050; ConvF(1, 1, 1); Calibrated: 2023/1/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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 = 156.6 V/m; Power Drift = 0.10 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 86.17 V/m
Average value of Total=(86.17+84.53)/2=85.35 V/m

PMF scaled E-field

Grid 1 **M3** **81.18 V/m**	Grid 2 **M3** **84.53 V/m**	Grid 3 **M3** **84.22 V/m**
Grid 4 **M4** **63.24 V/m**	Grid 5 **M4** **64.51 V/m**	Grid 6 **M4** **62.42 V/m**
Grid 7 **M3** **83.30 V/m**	Grid 8 **M3** **86.17 V/m**	Grid 9 **M3** **84.61 V/m**

Total = 86.17 V/m
E Category: M3
Location: -0.5, 34, 9.7 mm



0 dB = 86.17 V/m = 39.04 dBV/m

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2023/2/27

HAC_E_Dipole_2450

DUT: HAC Dipole 2450 MHz

Communication System: UID 0, CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.3 ℃;

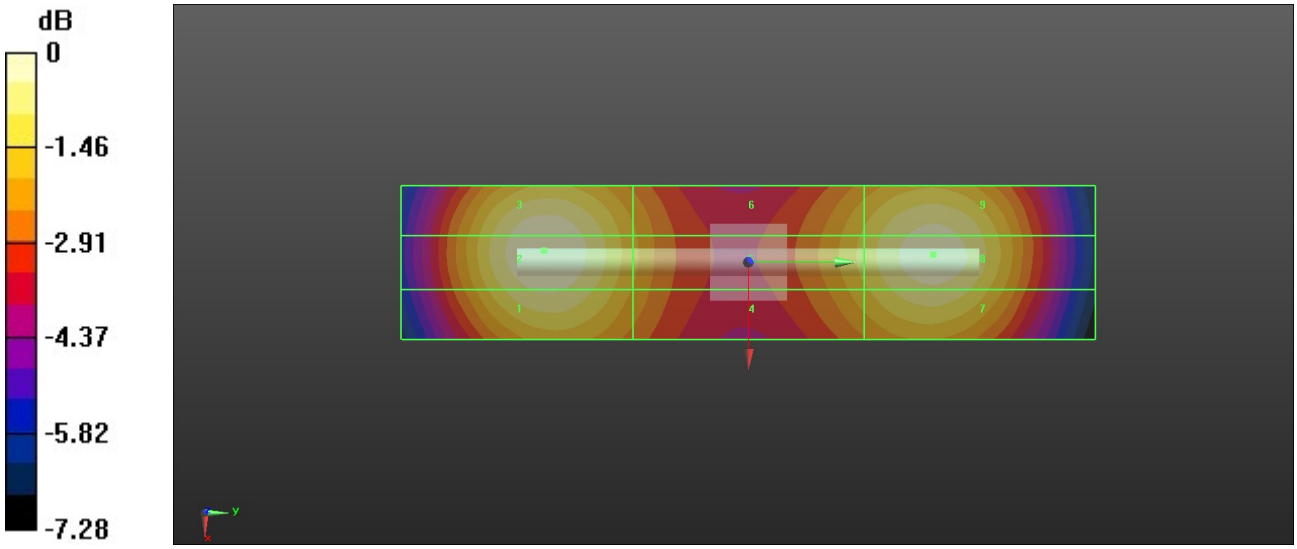
DASY5 Configuration:
- Probe: EF3DV3 - SN4050; ConvF(1, 1, 1); Calibrated: 2023/1/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

E Scan - measurement distance from the probe sensor center to CD2450 = 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 = 79.87 V/m; Power Drift = 0.05 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 94.86 V/m
Average value of Total=(94.86+93.06)/2=93.96 V/m

PMF scaled E-field

Grid 1 **M3** **90.46 V/m**	Grid 2 **M3** **94.86 V/m**	Grid 3 **M3** **93.82 V/m**
Grid 4 **M3** **79.31 V/m**	Grid 5 **M3** **82.06 V/m**	Grid 6 **M3** **81.12 V/m**
Grid 7 **M3** **88.81 V/m**	Grid 8 **M3** **93.06 V/m**	Grid 9 **M3** **91.61 V/m**

Total = 94.86 V/m
E Category: M3
Location: -1.5, -26.5, 8.7 mm



0 dB = 94.86 V/m = 39.54 dBV/m

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2023/2/28

HAC_E_Dipole_2600

DUT: HAC Dipole 2600 MHz

Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.3 ℃;

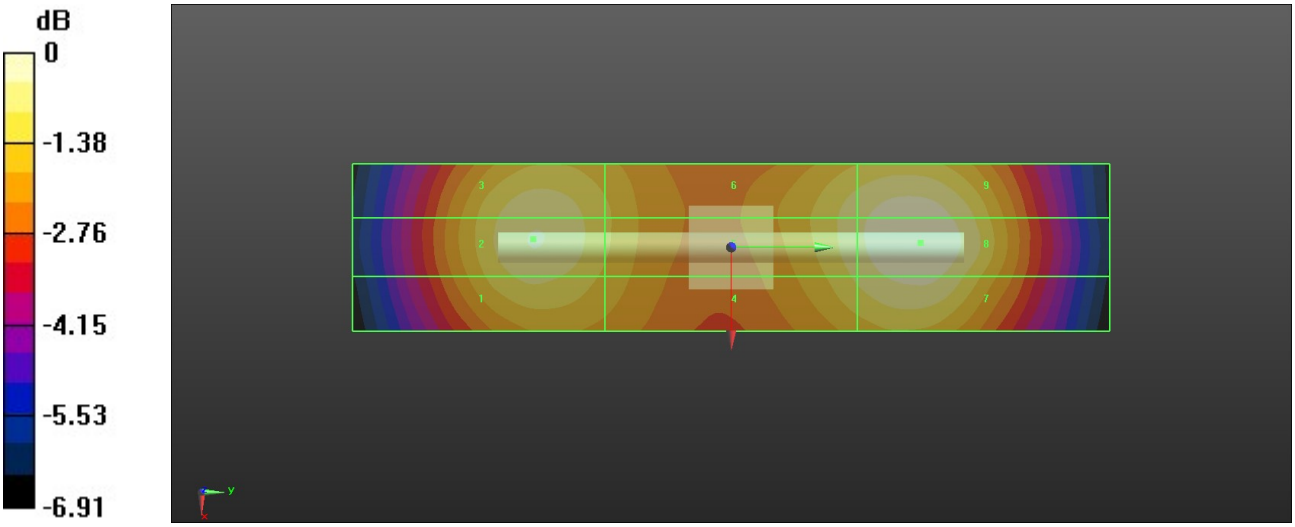
DASY5 Configuration:
- Probe: EF3DV3 - SN4050; ConvF(1, 1, 1); Calibrated: 2023/1/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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 = 66.52 V/m; Power Drift = 0.03 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 85.64 V/m
Average value of Total=(85.64+81.42)/2=83.53 V/m

PMF scaled E-field

Grid 1 **M3** **78.11 V/m**	Grid 2 **M3** **81.42 V/m**	Grid 3 **M3** **80.50 V/m**
Grid 4 **M3** **77.88 V/m**	Grid 5 **M3** **80.25 V/m**	Grid 6 **M3** **79.95 V/m**
Grid 7 **M3** **82.56 V/m**	Grid 8 **M3** **85.64 V/m**	Grid 9 **M3** **84.30 V/m**

Total = 85.64 V/m
E Category: M3
Location: -0.5, 22.5, 9.7 mm



0 dB = 85.64 V/m = 38.65 dBV/m

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2023/2/28

HAC_E_Dipole_3500

DUT: HAC Dipole 3500 MHz

Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.3 ℃;

DASY5 Configuration:
- Probe: EF3DV3 - SN4050; ConvF(1, 1, 1); Calibrated: 2023/1/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

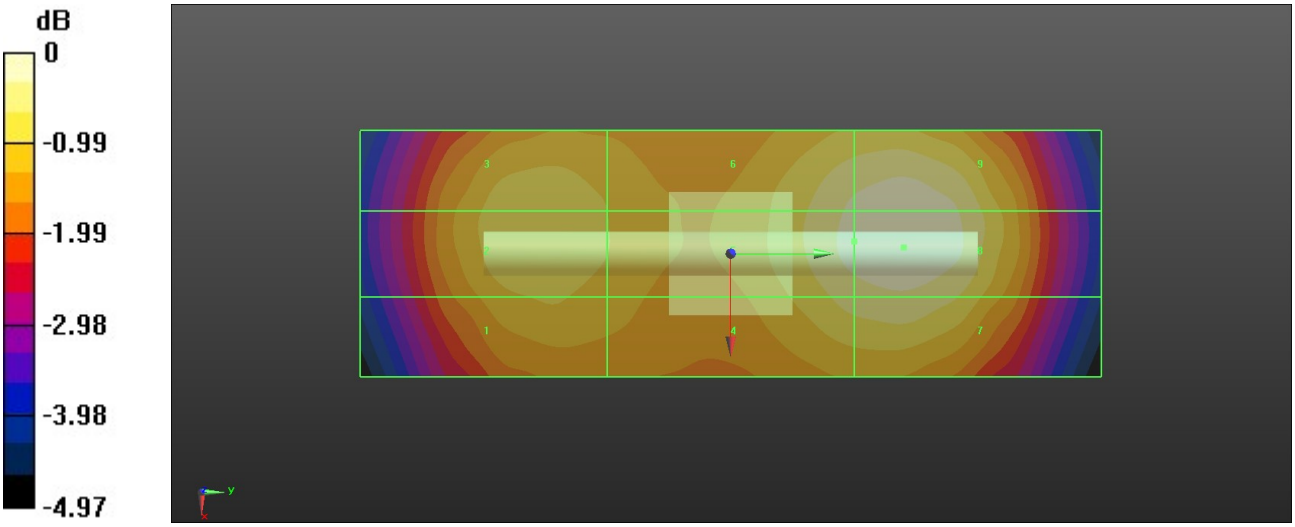
E Scan - measurement distance from the probe sensor center to CD3500 = 15mm/Hearing Aid Compatibility Test at 15mm distance (41x121x1): Interpolated

grid: dx=0.5000 mm, dy=0.5000 mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 37.62 V/m; Power Drift = -0.01 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 92.19 V/m
Average value of Total=(92.19+90.33)/2=91.26 V/m

PMF scaled E-field

Grid 1 **M3** **90.41 V/m**	Grid 2 **M3** **92.19 V/m**	Grid 3 **M3** **91.92 V/m**
Grid 4 **M3** **87.09 V/m**	Grid 5 **M3** **88.17 V/m**	Grid 6 **M3** **87.82 V/m**
Grid 7 **M3** **87.62 V/m**	Grid 8 **M3** **90.33 V/m**	Grid 9 **M3** **88.17 V/m**

Total = 92.19 V/m
E Category: M3
Location: 0, -14.5, 9.7 mm



0 dB = 92.19 V/m = 39.42 dBV/m