



## **Appendix A. Plots of System Performance Check**

The plots are shown as follows.

**HAC\_E\_Dipole\_835\_130521**

**DUT: HAC-Dipole 835 MHz**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1  
 Medium: Air Medium parameters used:  $\sigma = 0 \text{ S/m}$ ,  $\epsilon_r = 1$ ;  $\rho = 0 \text{ kg/m}^3$   
 Ambient Temperature : 23.2 °C

**DASY5 Configuration:**

- Probe: ER3DV6 - SN2476; ConvF(1, 1, 1); Calibrated: 2012-12-12;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn679; Calibrated: 2013-1-16
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

**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 = 103.4 V/m; Power Drift = -0.01 dB  
 PMR not calibrated. PMF = 1.000 is applied.  
 E-field emissions = 106.5 V/m

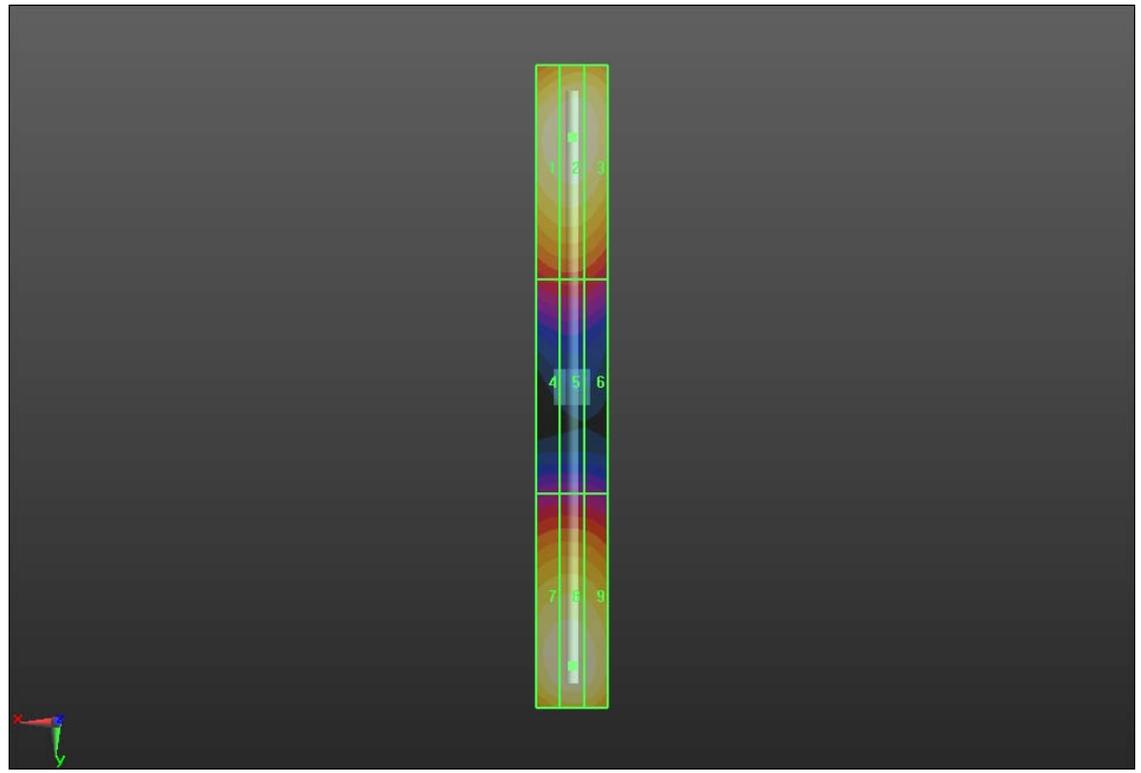
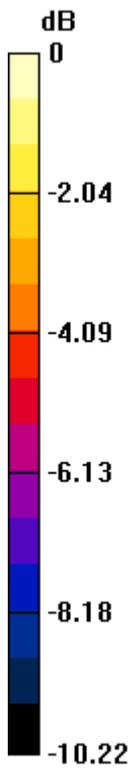
**Average value of Total=(106.5+105.9) /2 = 106.2 V/m)**

PMF scaled E-field

<b>Grid 1 M4</b> <b>105.2 V/m</b>	<b>Grid 2 M4</b> <b>106.5 V/m</b>	<b>Grid 3 M4</b> <b>104.8 V/m</b>
<b>Grid 4 M4</b> <b>63.15 V/m</b>	<b>Grid 5 M4</b> <b>63.78 V/m</b>	<b>Grid 6 M4</b> <b>62.52 V/m</b>
<b>Grid 7 M4</b> <b>104.5 V/m</b>	<b>Grid 8 M4</b> <b>105.9 V/m</b>	<b>Grid 9 M4</b> <b>104.0 V/m</b>

**Cursor:**

Total = 106.5 V/m  
 E Category: M4  
 Location: 0, -70, 9.7 mm



0 dB = 106.5 V/m = 40.55 dBV/m

**HAC\_E\_Dipole\_1880\_130521**

**DUT: HAC Dipole 1880 MHz**

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Ambient Temperature : 23.2 °C

**DASY5 Configuration:**

- Probe: ER3DV6 - SN2476; ConvF(1, 1, 1); Calibrated: 2012-12-12;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn679; Calibrated: 2013-1-16
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

**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 = 143.1 V/m; Power Drift = -0.02 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 87.95 V/m

**Average value of Total=(87.95+83.04) /2 = 85.495 V/m)**

PMF scaled E-field

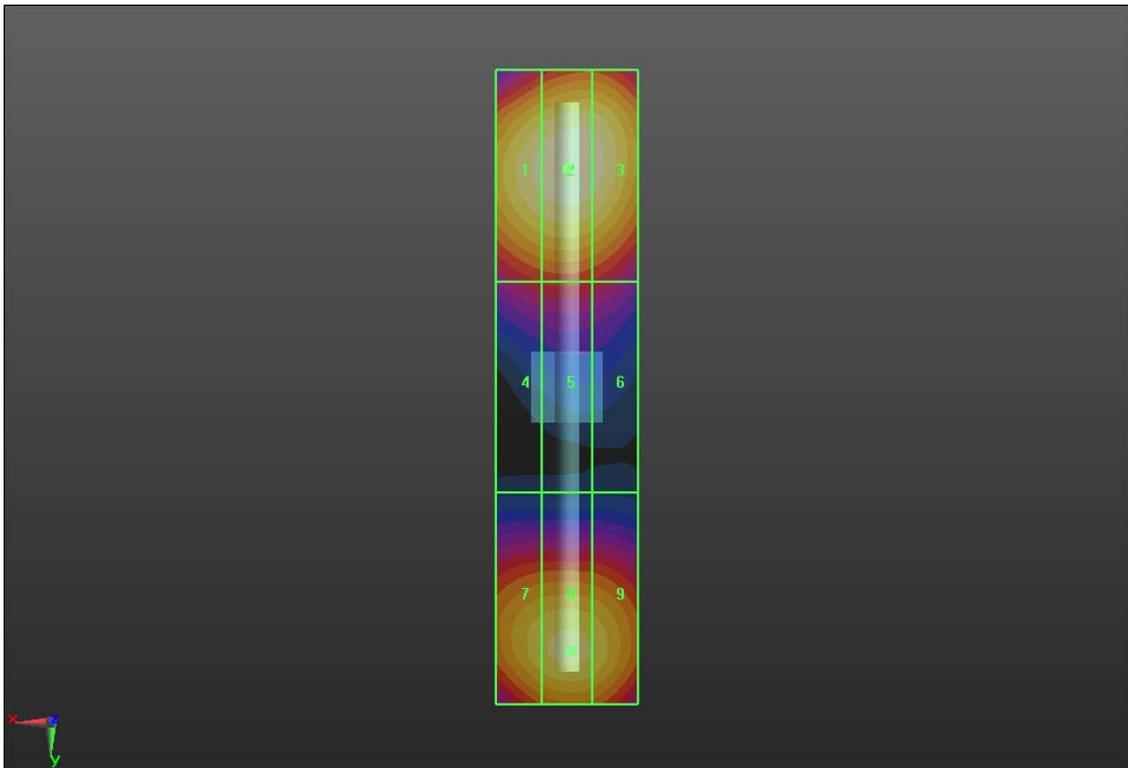
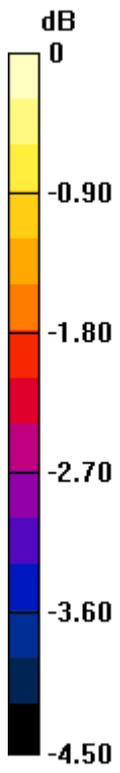
<b>Grid 1 M3</b> <b>86.30 V/m</b>	<b>Grid 2 M3</b> <b>87.95 V/m</b>	<b>Grid 3 M3</b> <b>86.85 V/m</b>
<b>Grid 4 M3</b> <b>69.39 V/m</b>	<b>Grid 5 M3</b> <b>70.12 V/m</b>	<b>Grid 6 M3</b> <b>68.97 V/m</b>
<b>Grid 7 M3</b> <b>81.59 V/m</b>	<b>Grid 8 M3</b> <b>83.04 V/m</b>	<b>Grid 9 M3</b> <b>81.98 V/m</b>

**Cursor:**

Total = 87.95 V/m

E Category: M3

Location: 0, -31, 9.7 mm



0 dB = 87.95 V/m = 38.88 dBV/m