



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

The plots are shown as follows.

### HAC\_E\_Dipole\_835\_130219

#### DUT: HAC-Dipole 835 MHz

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1  
 Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
 Ambient Temperature : 22.3 °C

#### DASY5 Configuration:

- Probe: ER3DV6 - SN2476; ConvF(1, 1, 1); Calibrated: 2012-12-12;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2012-12-5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

#### E Scan - measurement distance from the probe sensor center to CD835 = 10mm & 15mm/Hearing Aid Compatibility Test at 15mm distance (41x361x1): Measurement grid:

dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 115.1 V/m; Power Drift = -0.07 dB

PMF = 1.000 is applied.

E-field emissions = 118.1 V/m

Average value of Total=(104.7+118.1) / 2 = 111.4 V/m

PMF scaled E-field

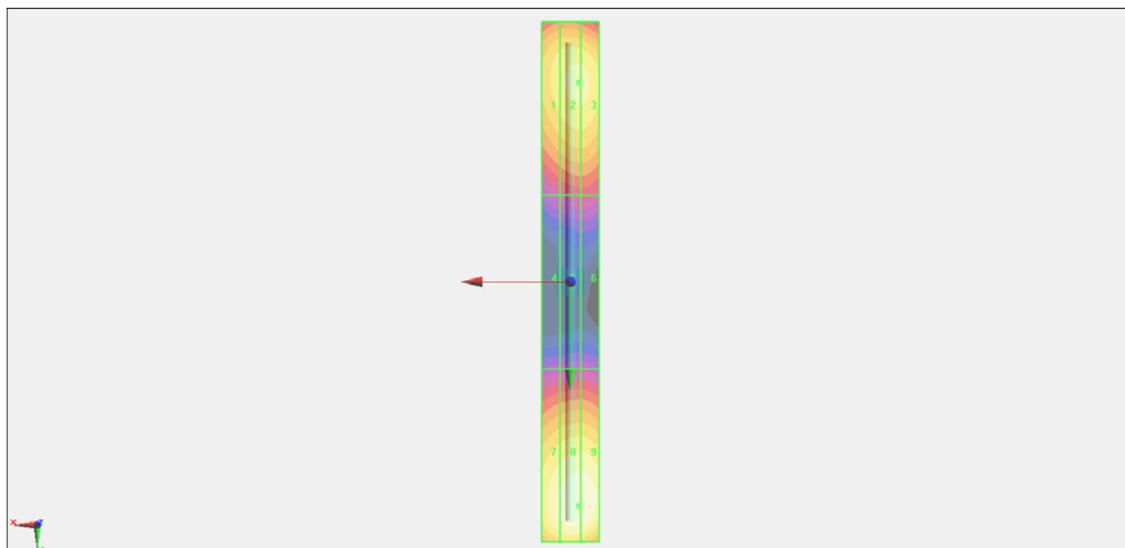
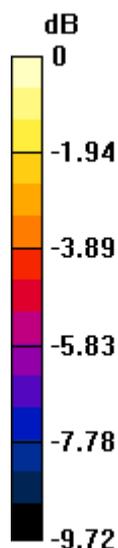
Grid 1 M4 <b>99.89 V/m</b>	Grid 2 M4 <b>104.7 V/m</b>	Grid 3 M4 <b>104.6 V/m</b>
Grid 4 M4 <b>63.26 V/m</b>	Grid 5 M4 <b>67.24 V/m</b>	Grid 6 M4 <b>67.27 V/m</b>
Grid 7 M4 <b>111.8 V/m</b>	Grid 8 M4 <b>118.1 V/m</b>	Grid 9 M4 <b>118.1 V/m</b>

#### Cursor:

Total = 118.1 V/m

E Category: M4

Location: -3, 77.5, 9.7 mm



0 dB = 118.1 V/m = 41.44 dB V/m

## HAC\_E\_Dipole\_1880\_130219

### DUT: HAC Dipole 1880 MHz

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

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2476; ConvF(1, 1, 1); Calibrated: 2012-12-12;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2012-12-5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

### E Scan - measurement distance from the probe sensor center to CD1880 = 10mm & 15mm/Hearing Aid Compatibility Test at 15mm distance (41x181x1): Measurement grid:

dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 156.4 V/m; Power Drift = 0.00 dB

PMF = 1.000 is applied.

E-field emissions = 94.07 V/m

Average value of Total=(94.07+91.08) / 2 = 92.575 V/m

PMF scaled E-field

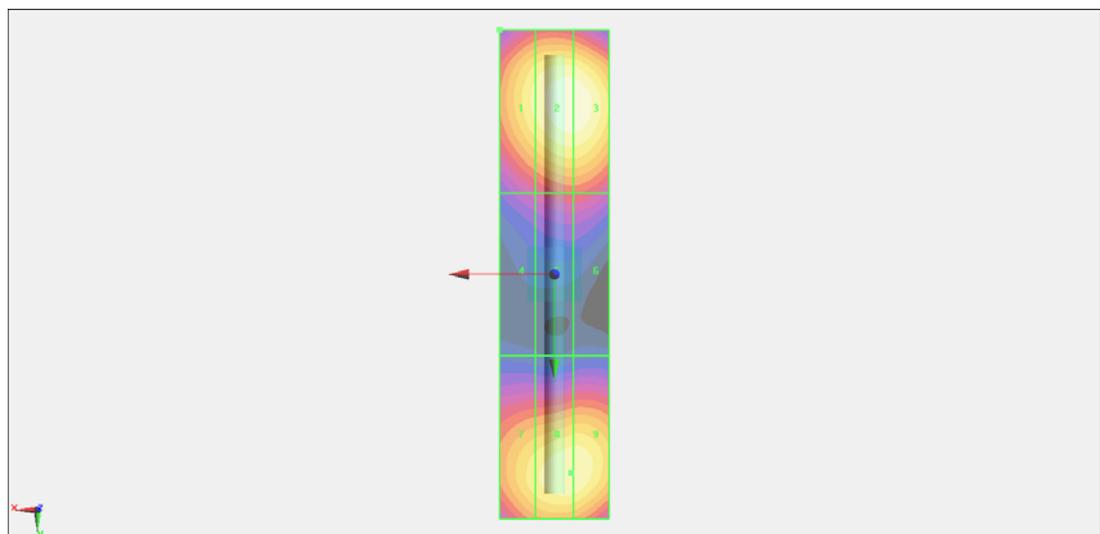
Grid 1 M3 <b>89.16 V/m</b>	Grid 2 M3 <b>94.07 V/m</b>	Grid 3 M3 <b>94.07 V/m</b>
Grid 4 M3 <b>71.30 V/m</b>	Grid 5 M3 <b>74.89 V/m</b>	Grid 6 M3 <b>74.89 V/m</b>
Grid 7 M3 <b>87.25 V/m</b>	Grid 8 M3 <b>91.08 V/m</b>	Grid 9 M3 <b>91.02 V/m</b>

**Cursor:**

Total = 65.28 V/m

E Category: M3

Location: 10, -45, 9.7 mm



0 dB = 94.07 V/m = 39.47 dB V/m