

**Appendix A - System Performance Check Data**

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab

Data:2008/3/31

**HAC\_E\_Dipole\_835****DUT: HAC-Dipole 835 MHz; Type: CD835V3**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.8 °C

DASY4 Configuration:

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2008/1/28

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn778; Calibrated: 2007/9/17

- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**E Scan - ER probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test**

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 179.9 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 59.6 V/m; Power Drift = -0.017 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

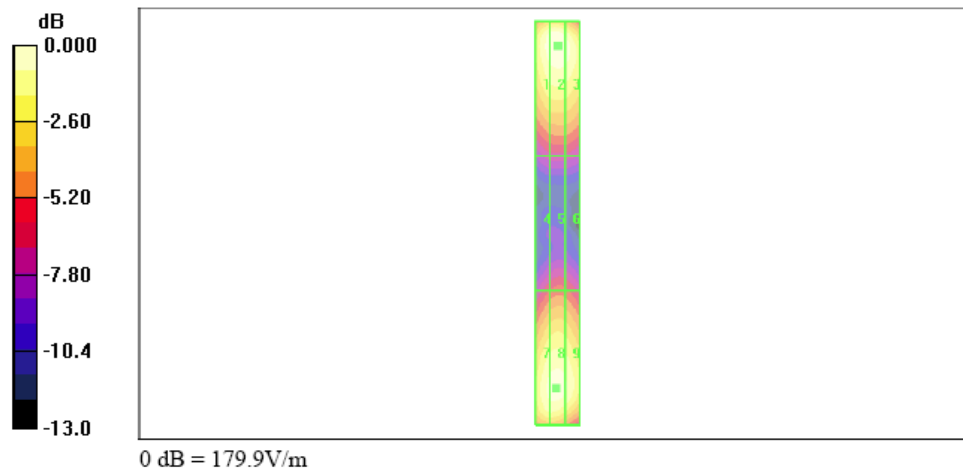
Grid 1	Grid 2	Grid 3
174.1 M4	179.9 M4	173.6 M4
Grid 4	Grid 5	Grid 6
89.7 M4	94.4 M4	92.2 M4
Grid 7	Grid 8	Grid 9
167.4 M4	171.2 M4	165.5 M4

Cursor:

Total = 179.9 V/m

E Category: M4

Location: 0, -79, 363.7 mm





Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab

Data:2008/3/31

**HAC\_E\_Dipole\_1880****DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

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

Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.8 °C

DASY4 Configuration:

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2008/1/28
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2007/9/17
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**E Scan - ER probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test****(41x181x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 148.3 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 71.8 V/m; Power Drift = 0.012 dB

**Hearing Aid Near-Field Category: M2 (AWF 0 dB)**

Peak E-field in V/m

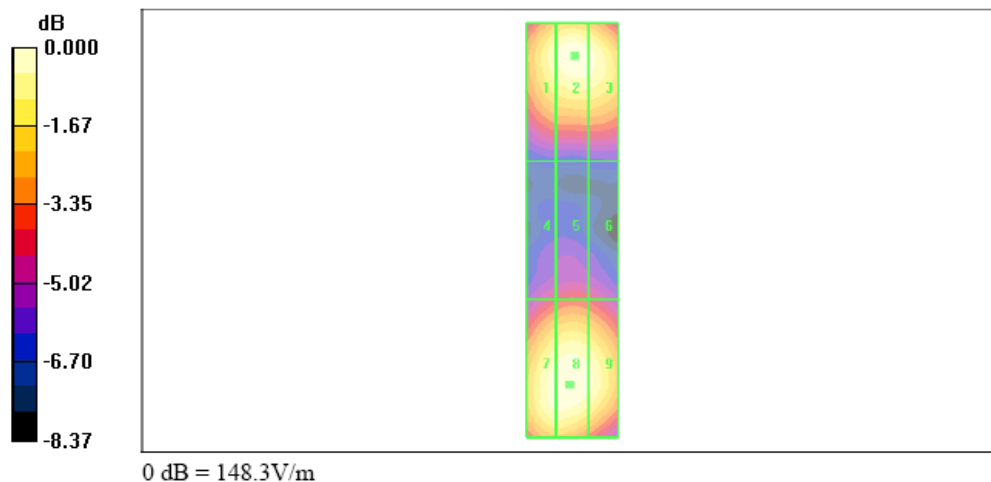
Grid 1	Grid 2	Grid 3
139.3 M2	147.9 M2	144.1 M2
Grid 4	Grid 5	Grid 6
92.2 M3	96.0 M3	92.8 M3
Grid 7	Grid 8	Grid 9
145.8 M2	148.3 M2	142.4 M2

**Cursor:**

Total = 148.3 V/m

E Category: M2

Location: 0.5, 33.5, 363.7 mm





Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab

Data:2008/3/31

**HAC\_H\_Dipole\_835****DUT: HAC-Dipole 835 MHz; Type: CD835V3**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

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

Ambient Temperature : 22.8 °C

**DASY4 Configuration:**

- Probe: H3DV6 - SN6184; ; Calibrated: 2008/1/28

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn778; Calibrated: 2007/9/17

- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**H Scan - H3DV6 probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test****(41x361x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.455 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.442 A/m; Power Drift = 0.002 dB

**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

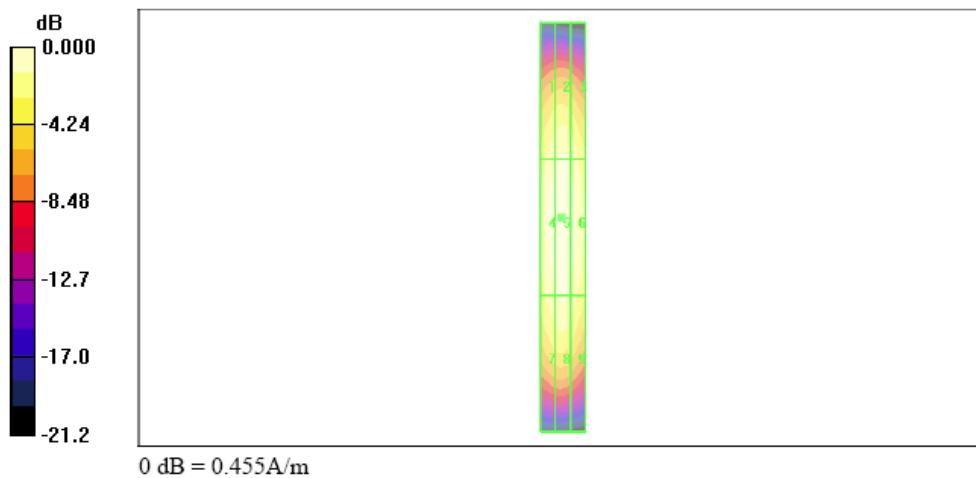
Grid 1	Grid 2	Grid 3
<b>0.379 M4</b>	<b>0.401 M4</b>	<b>0.373 M4</b>
Grid 4	Grid 5	Grid 6
<b>0.434 M4</b>	<b>0.455 M4</b>	<b>0.422 M4</b>
Grid 7	Grid 8	Grid 9
<b>0.378 M4</b>	<b>0.397 M4</b>	<b>0.367 M4</b>

**Cursor:**

Total = 0.455 A/m

H Category: M4

Location: 0.5, -4.5, 363.7 mm





Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab

Data:2008/3/31

**HAC\_H\_Dipole\_1880****DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

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

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

Ambient Temperature : 22.8 °C

DASY4 Configuration:

- Probe: H3DV6 - SN6184; ; Calibrated: 2008/1/28
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2007/9/17
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**H Scan - H3DV6 probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test****(41x181x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.500 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.487 A/m; Power Drift = -0.010 dB

**Hearing Aid Near-Field Category: M2 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
<b>0.441 M2</b>	<b>0.462 M2</b>	<b>0.431 M2</b>
Grid 4	Grid 5	Grid 6
<b>0.483 M2</b>	<b>0.500 M2</b>	<b>0.467 M2</b>
Grid 7	Grid 8	Grid 9
<b>0.444 M2</b>	<b>0.462 M2</b>	<b>0.428 M2</b>

**Cursor:**

Total = 0.500 A/m

H Category: M2

Location: 0.5, 0, 363.7 mm

