

## **ATTACHMENT B – DIPOLE VALIDATION**

## ■ Validation Data (E-Field 835MHz)

Test Laboratory: HCT

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

**Program Name: HAC E Dipole**

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

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

Phantom section: E Dipole Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2006-03-23

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn446; Calibrated: 2006-03-17

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

### E Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 170.0 V/m

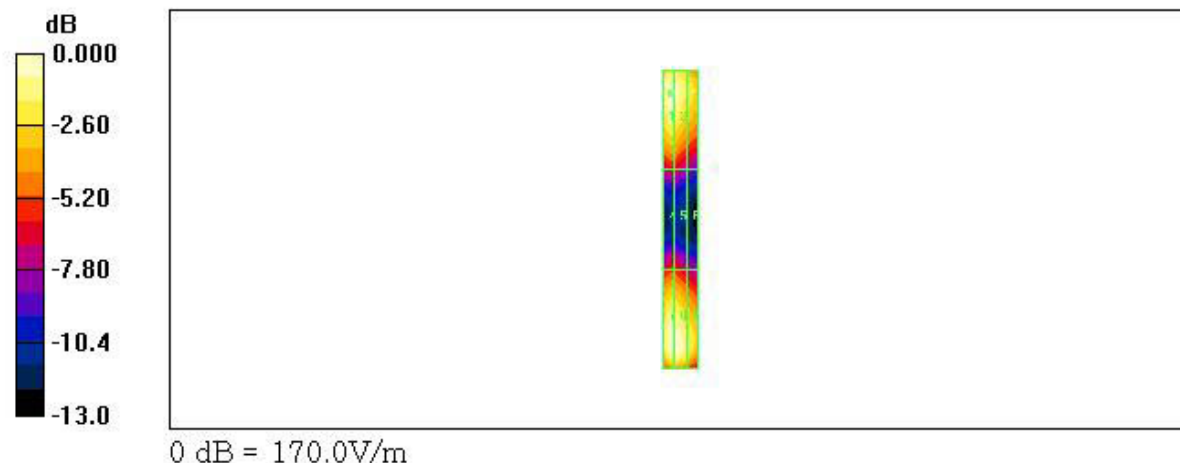
Probe Modulation Factor = 1.00

Reference Value = 130.1 V/m; Power Drift = 0.024 dB

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

Peak E-field in V/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 166.1  | 163.3  | 140.7  |
| Grid 4 | Grid 5 | Grid 6 |
| 89.8   | 89.1   | 76.2   |
| Grid 7 | Grid 8 | Grid 9 |
| 170.0  | 170.0  | 147.4  |



## ■ Validation Data (E-Field 1880 MHz)

Test Laboratory: HCT

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

**Program Name: HAC E Dipole**

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

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

Phantom section: E Dipole Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2006-03-23

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn446; Calibrated: 2006-03-17

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

### E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 137.3 V/m

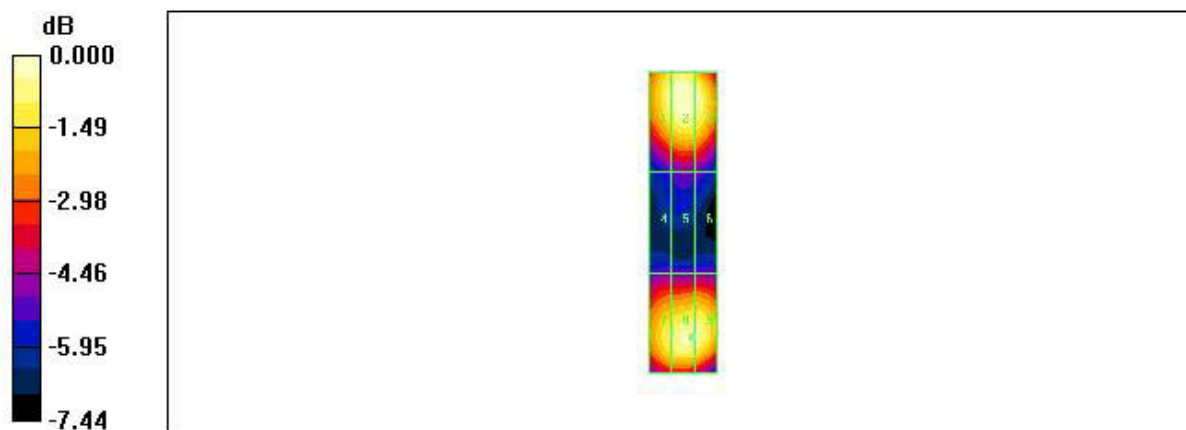
Probe Modulation Factor = 1.00

Reference Value = 116.6 V/m; Power Drift = 0.018 dB

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

Peak E-field in V/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 129.8  | 137.3  | 133.8  |
| Grid 4 | Grid 5 | Grid 6 |
| 78.0   | 78.8   | 78.8   |
| Grid 7 | Grid 8 | Grid 9 |
| 125.3  | 132.4  | 132.1  |



0 dB = 137.3V/m

## ■ Validation Data (H-Field 835 MHz)

Test Laboratory: HCT

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

**Program Name: HAC H Dipole**

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

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

Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2005-07-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

### H Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.460 A/m

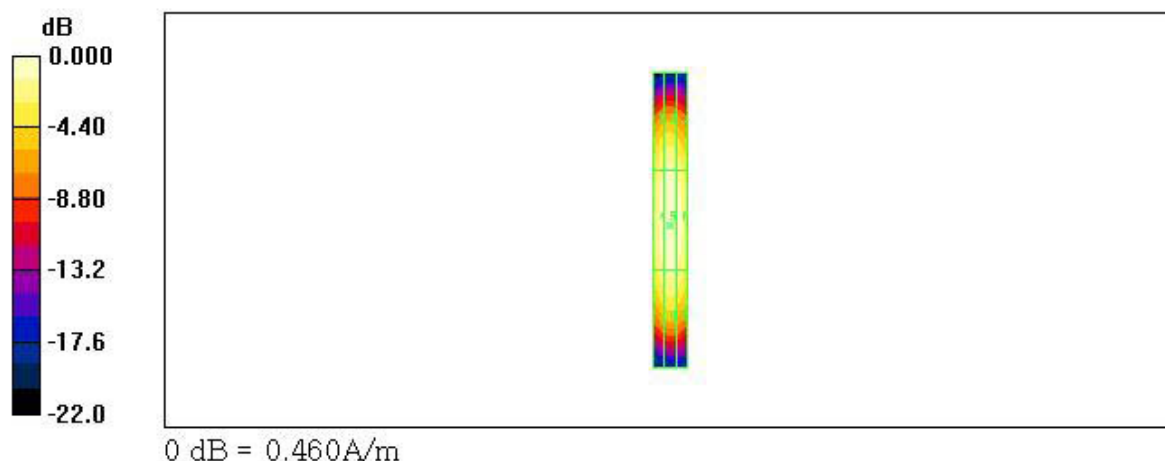
Probe Modulation Factor = 1.00

Reference Value = 0.479 A/m; Power Drift = 0.088 dB

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

Peak H-field in A/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 0.388  | 0.404  | 0.381  |
| Grid 4 | Grid 5 | Grid 6 |
| 0.438  | 0.460  | 0.437  |
| Grid 7 | Grid 8 | Grid 9 |
| 0.384  | 0.408  | 0.388  |



## ■ Validation Data (H-Field 1880 MHz)

Test Laboratory: HCT

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Program Name: HAC H Dipole

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

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

Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2005-07-20

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn446; Calibrated: 2006-03-17

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

### H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.472 A/m

Probe Modulation Factor = 1.00

Reference Value = 0.491 A/m; Power Drift = 0.025 dB

Hearing Aid Near-Field Category: M2 (A WF 0 dB)

Peak H-field in A/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 0.431  | 0.453  | 0.430  |
| Grid 4 | Grid 5 | Grid 6 |
| 0.451  | 0.472  | 0.451  |
| Grid 7 | Grid 8 | Grid 9 |
| 0.385  | 0.406  | 0.390  |

