

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: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

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 = 169.8 V/m

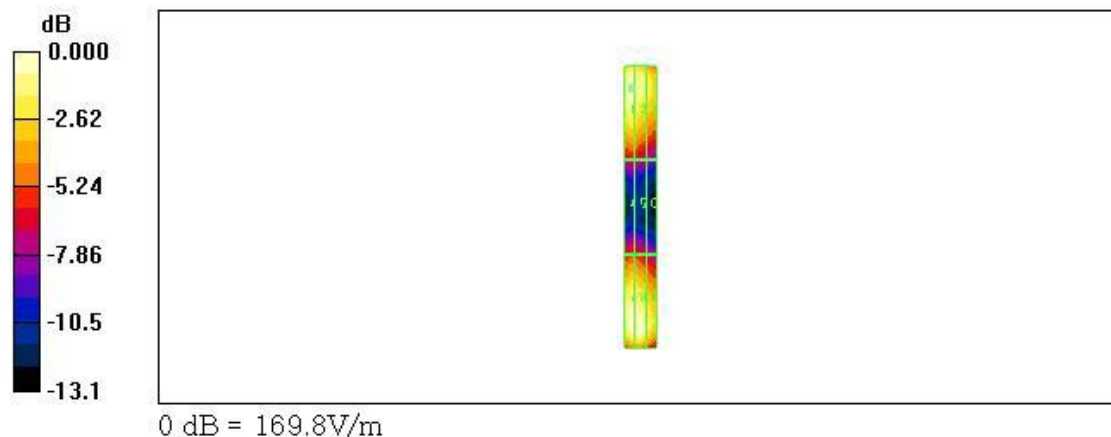
Probe Modulation Factor = 1.00

Reference Value = 129.3 V/m; Power Drift = 0.056 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
164.7	161.7	140.1
Grid 4	Grid 5	Grid 6
89.4	88.8	76.2
Grid 7	Grid 8	Grid 9
169.8	169.8	147.2



■ 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/m³

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 = 137.8 V/m

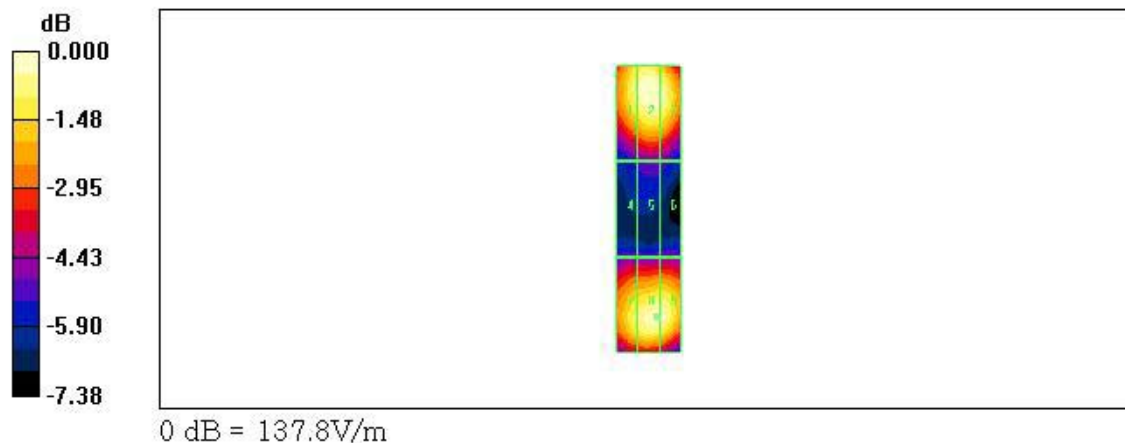
Probe Modulation Factor = 1.00

Reference Value = 117.3 V/m; Power Drift = 0.009 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
129.6	137.8	134.8
Grid 4	Grid 5	Grid 6
78.7	79.6	80.0
Grid 7	Grid 8	Grid 9
126.3	133.9	133.7



■ 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/m³

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 = 0.459 A/m

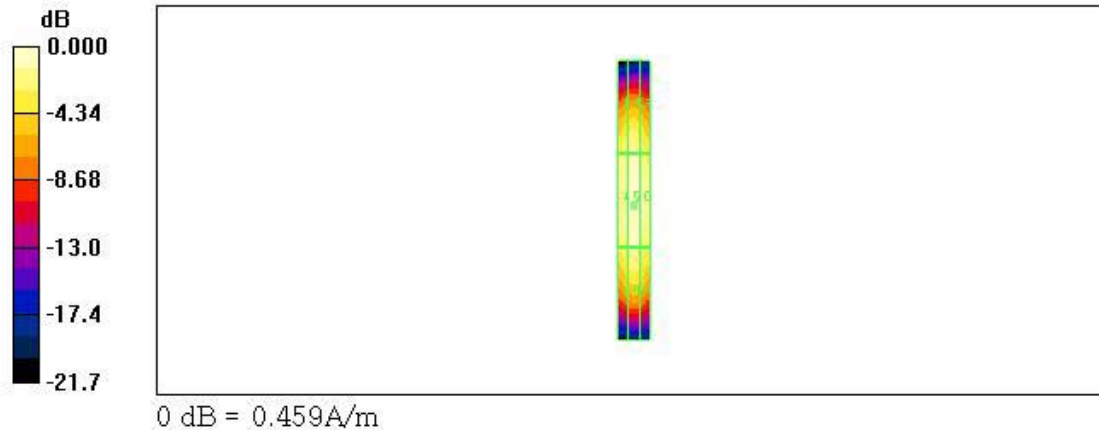
Probe Modulation Factor = 1.00

Reference Value = 0.492 A/m; Power Drift = -0.040 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.387	0.403	0.380
Grid 4	Grid 5	Grid 6
0.436	0.459	0.436
Grid 7	Grid 8	Grid 9
0.383	0.406	0.387



■ 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/m³

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 = 0.465 A/m

Probe Modulation Factor = 1.00

Reference Value = 0.484 A/m; Power Drift = 0.024 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.425	0.446	0.423
Grid 4	Grid 5	Grid 6
0.444	0.465	0.444
Grid 7	Grid 8	Grid 9
0.379	0.399	0.383

