

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/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 835 MHz/Hearing Aid Compatibility Test (41x361x1):

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

Maximum value of peak Total field = 170.0 V/m

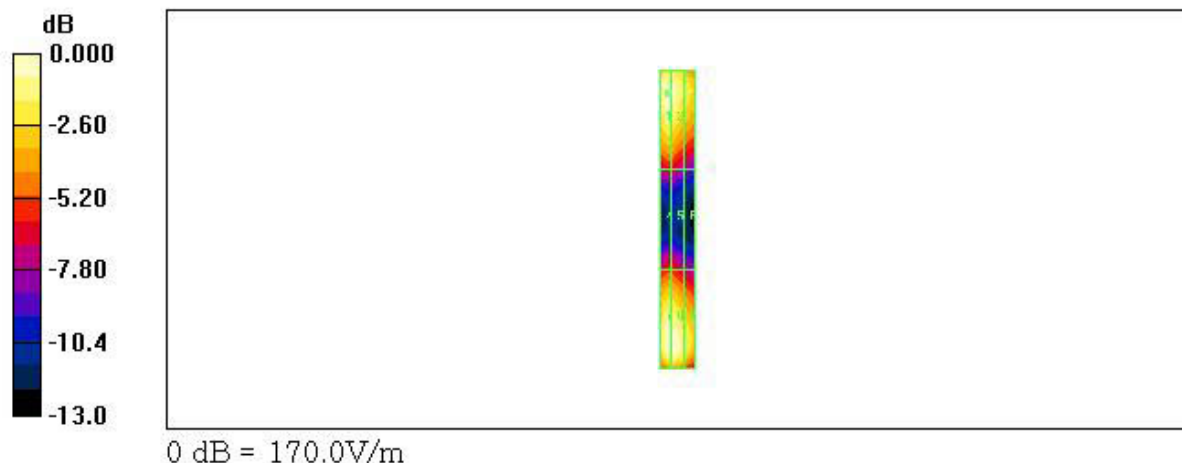
Probe Modulation Factor = 1.00

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/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 = 137.3 V/m

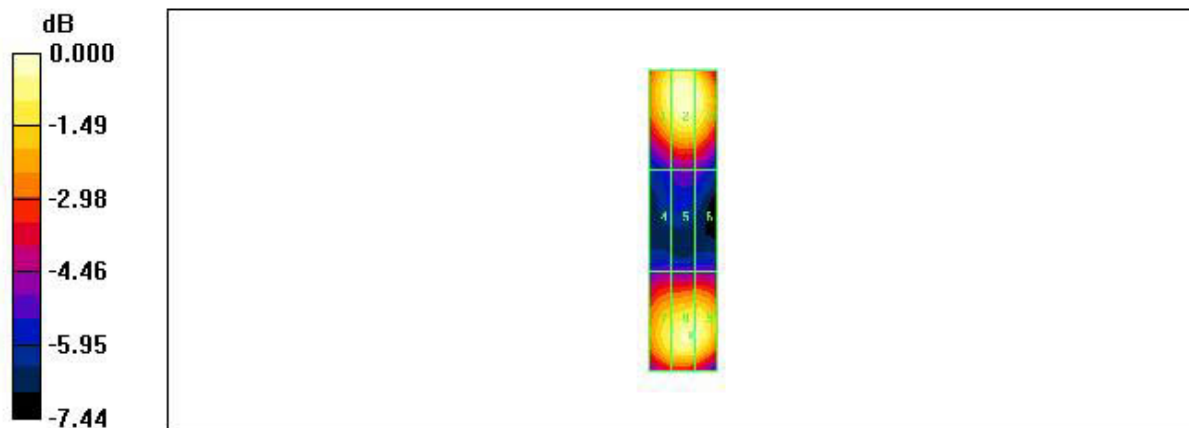
Probe Modulation Factor = 1.00

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/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 = 0.460 A/m

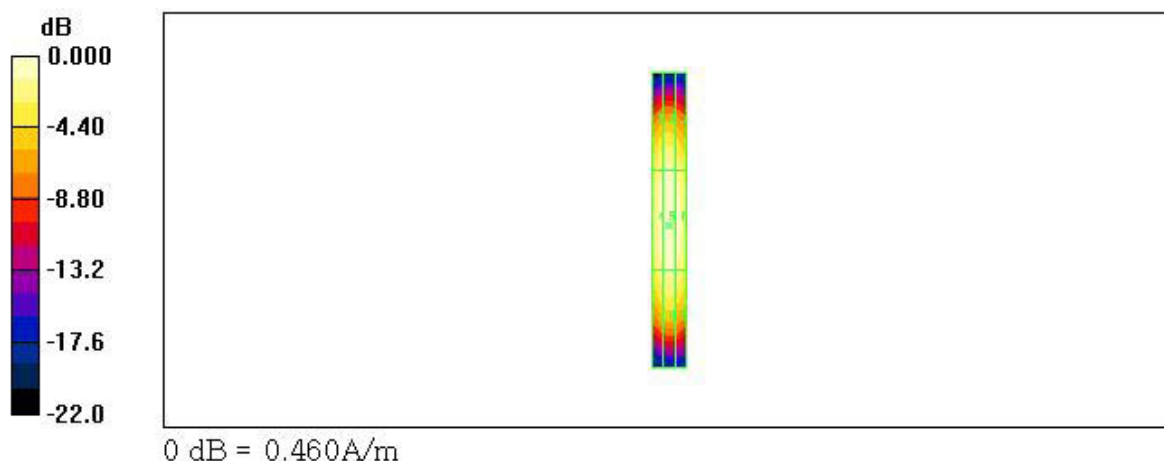
Probe Modulation Factor = 1.00

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/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 = 0.472 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

