

APPENDIX C (DIPOLE VALIDATION)

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.6 °C

Test Date April 05, 2008

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1071

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 ; Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2007-06-25

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn447; Calibrated: 2007-09-13

- 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 = 173.5 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 140.6 V/m; Power Drift = -0.044 dB

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

Peak E-field in V/m

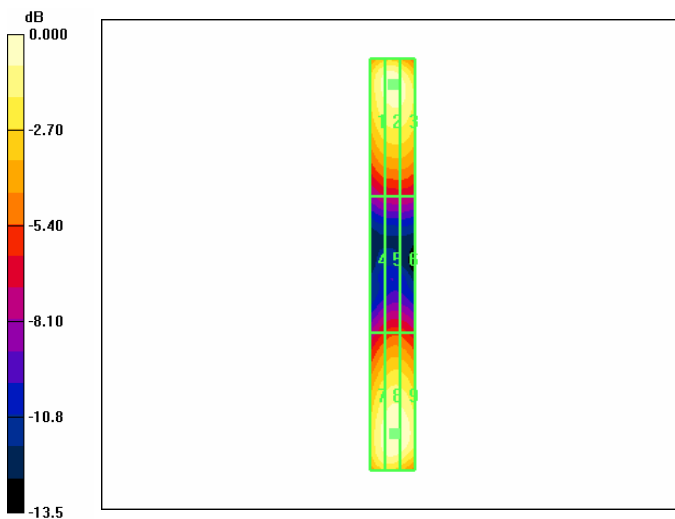
Grid 1	Grid 2	Grid 3
163.6 M4	168.6 M4	164.1 M4
Grid 4	Grid 5	Grid 6
85.5 M4	91.2 M4	90.1 M4
Grid 7	Grid 8	Grid 9
164.2 M4	173.5 M4	171.4 M4

Cursor:

Total = 173.5 V/m

E Category: M4

Location: -1, 74, 365.8 mm



0 dB = 173.5V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.6 °C

Test Date April 05, 2008

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1071

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 Device Section ; Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2007-06-25

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn446; Calibrated: 2006-11-15

- 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 = 133.5 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 75.3 V/m; Power Drift = 0.043 dB

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

Peak E-field in V/m

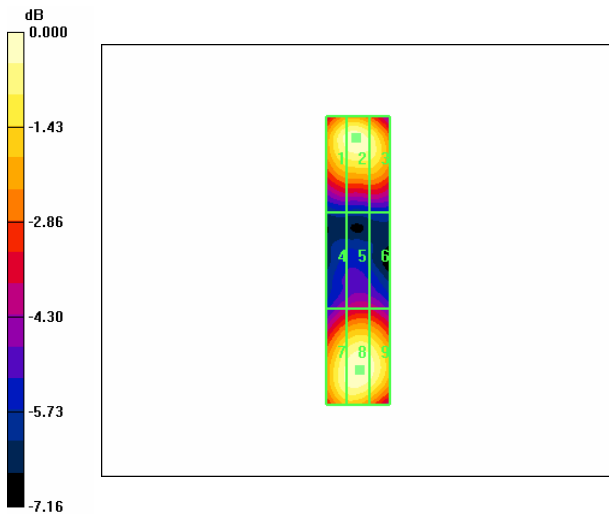
Grid 1	Grid 2	Grid 3
129.8 M2	132.2 M2	126.5 M2
Grid 4	Grid 5	Grid 6
83.3 M3	87.3 M3	86.1 M3
Grid 7	Grid 8	Grid 9
129.0 M2	133.5 M2	130.7 M2

Cursor:

Total = 133.5 V/m

E Category: M2

Location: -0.5, 34, 364.8 mm



0 dB = 133.5V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.6 °C

Test Date April 05, 2008

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1082

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 ; Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2007-07-25

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn447; Calibrated: 2007-09-13

- 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

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.578 A/m; Power Drift = 0.021 dB

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

Peak H-field in A/m

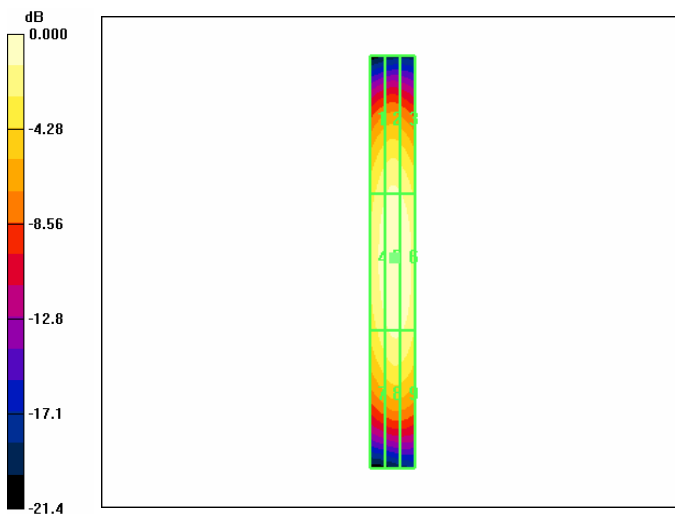
Grid 1	Grid 2	Grid 3
0.378 M4	0.405 M4	0.391 M4
Grid 4	Grid 5	Grid 6
0.424 M4	0.459 M4	0.448 M4
Grid 7	Grid 8	Grid 9
0.368 M4	0.402 M4	0.395 M4

Cursor:

Total = 0.459 A/m

H Category: M4

Location: -1, -1.5, 366.6 mm



0 dB = 0.459A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.6 °C

Test Date April 05, 2008

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1082

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 ; Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2007-07-25

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn447; Calibrated: 2007-09-13

- 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 = 0.437 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.549 A/m; Power Drift = -0.044 dB

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

Peak H-field in A/m

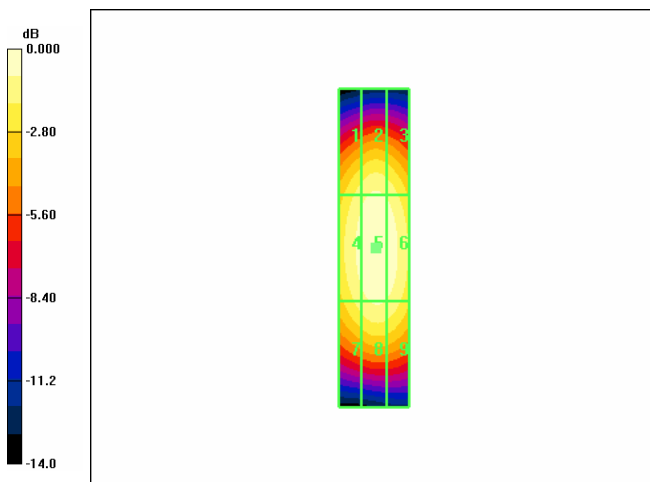
Grid 1	Grid 2	Grid 3
0.375 M2	0.400 M2	0.387 M2
Grid 4	Grid 5	Grid 6
0.411 M2	0.437 M2	0.426 M2
Grid 7	Grid 8	Grid 9
0.374 M2	0.399 M2	0.390 M2

Cursor:

Total = 0.437 A/m

H Category: M2

Location: -0.5, 0, 366.6 mm



0 dB = 0.437A/m