

APPENDIX C (DIPOLE VALIDATION)

Test Laboratory: HCT CO., LTD.
Ambient Temperature 21.4 °C
Test Date Nov. 7, 2011

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial:1024

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 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2011-05-16
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2011-09-22
- 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 = 168.1 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 130.5 V/m; Power Drift = -0.020 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

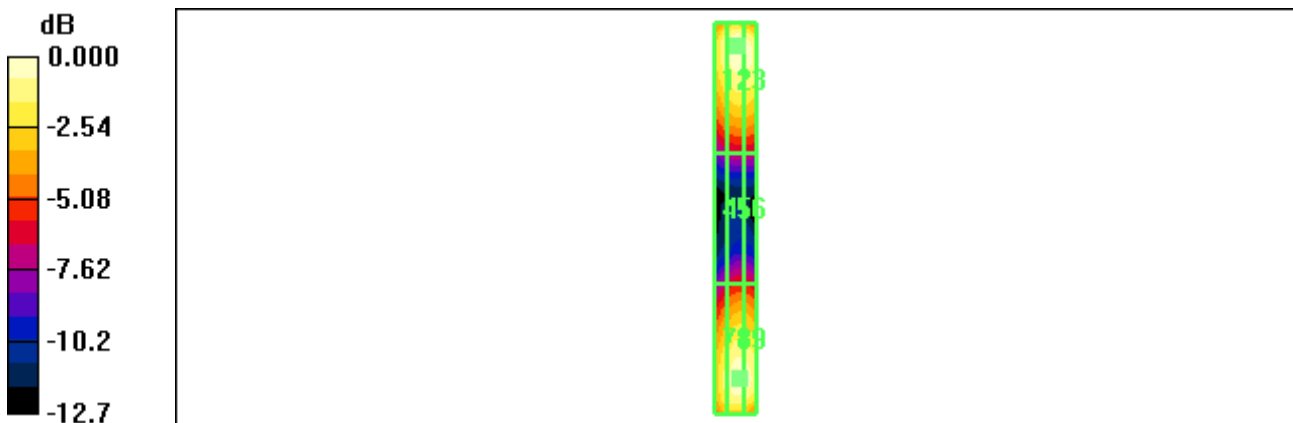
Grid 1	Grid 2	Grid 3
157.6 M4	168.1 M4	166.2 M4
Grid 4	Grid 5	Grid 6
78.3 M4	85.8 M4	85.4 M4
Grid 7	Grid 8	Grid 9
149.7 M4	162.8 M4	161.7 M4

Cursor:

Total = 168.1 V/m

E Category: M4

Location: -1, -79, 365.8 mm



0 dB = 168.1V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.4 °C

Test Date Nov. 7, 2011

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial:1019

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 ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2011-05-16

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn869; Calibrated: 2011-09-22

- 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 = 143.8 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 169.6 V/m; Power Drift = 0.002 dB

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

Peak E-field in V/m

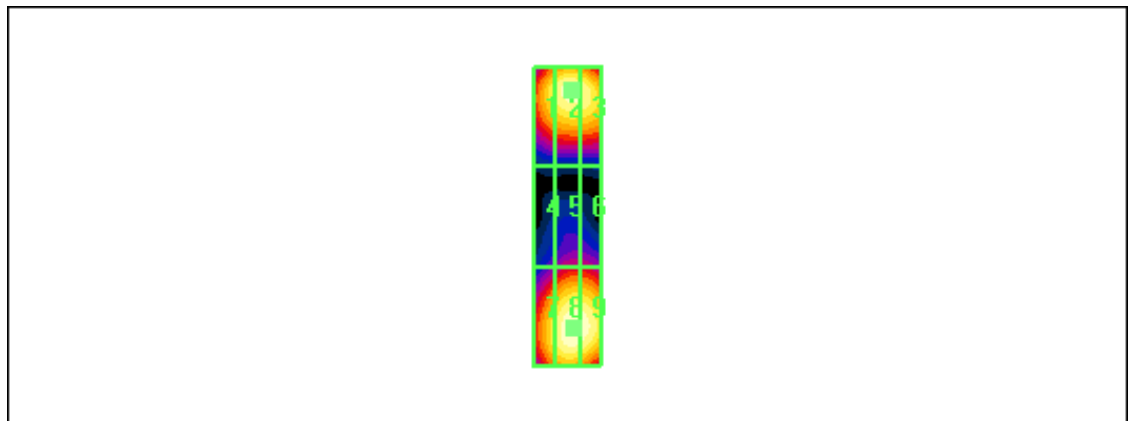
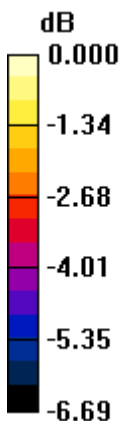
Grid 1	Grid 2	Grid 3
132.7 M2	141.1 M2	139.1 M2
Grid 4	Grid 5	Grid 6
89.2 M3	97.1 M3	97.0 M3
Grid 7	Grid 8	Grid 9
131.6 M2	143.8 M2	143.0 M2

Cursor:

Total = 143.8 V/m

E Category: M2

Location: -2, 33.5, 365.8 mm



0 dB = 143.8V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.4 °C

Test Date Nov. 7, 2011

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial:1024

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 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2011-05-18

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn869; Calibrated: 2011-09-22

- 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 = 0.454 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.566 A/m; Power Drift = -0.012 dB

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

Peak H-field in A/m

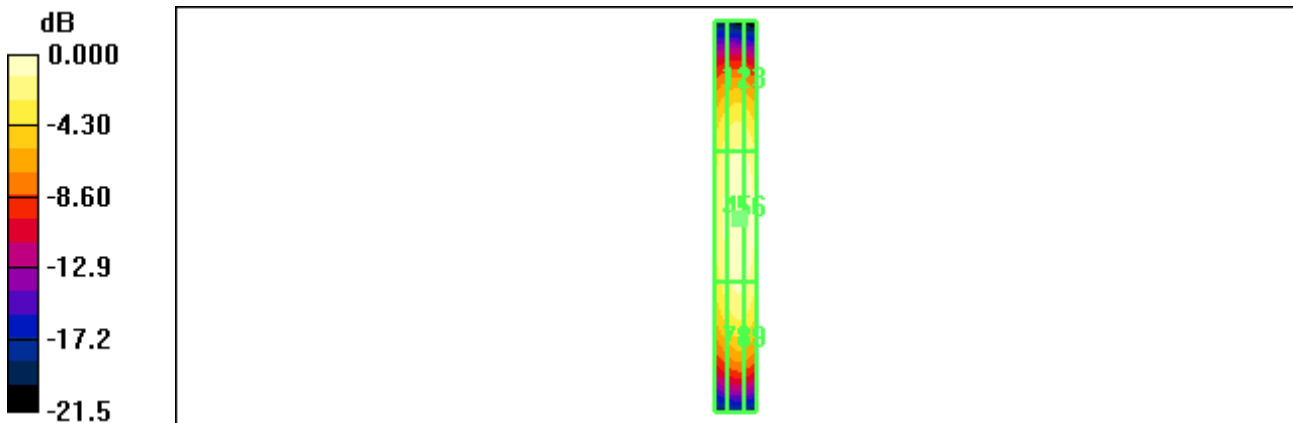
Grid 1	Grid 2	Grid 3
0.364 M4	0.395 M4	0.388 M4
Grid 4	Grid 5	Grid 6
0.415 M4	0.454 M4	0.447 M4
Grid 7	Grid 8	Grid 9
0.369 M4	0.407 M4	0.400 M4

Cursor:

Total = 0.454 A/m

H Category: M4

Location: -1.5, 1, 366.6 mm



0 dB = 0.454A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.4 °C

Test Date Nov. 7, 2011

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial:1019

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 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2011-05-18
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2011-09-22
- 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 = 0.480 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.573 A/m; Power Drift = 0.016 dB

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

Peak H-field in A/m

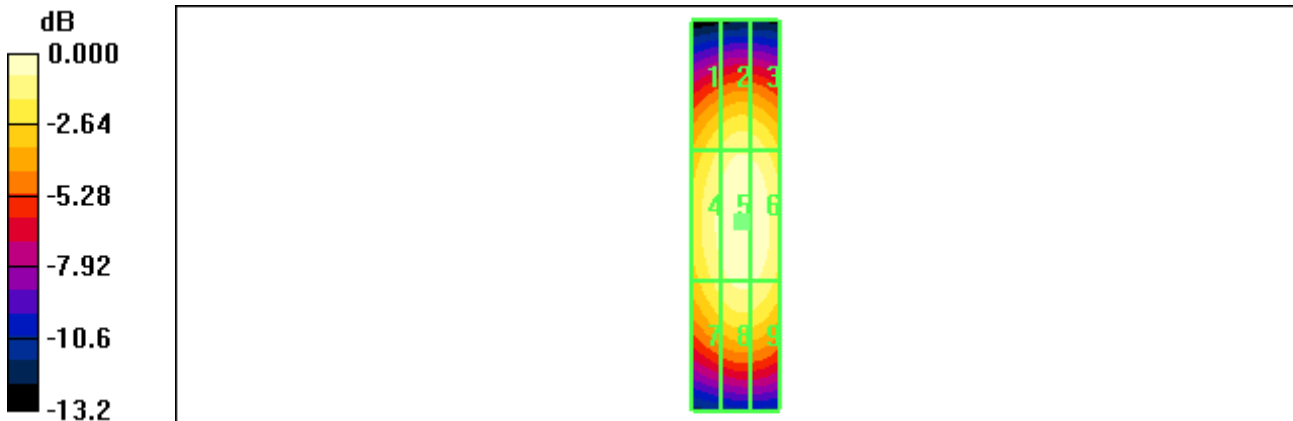
Grid 1	Grid 2	Grid 3
0.397 M2	0.428 M2	0.423 M2
Grid 4	Grid 5	Grid 6
0.447 M2	0.480 M2	0.475 M2
Grid 7	Grid 8	Grid 9
0.414 M2	0.447 M2	0.443 M2

Cursor:

Total = 0.480 A/m

H Category: M2

Location: -1.5, 1.5, 366.6 mm



0 dB = 0.480A/m