

APPENDIX C (DIPOLE VALIDATION)

Test Laboratory: HCT CO., LTD.
Ambient Temperature 21.5 °C
Test Date Dec. 12, 2008

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 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2008-05-19
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn466; Calibrated: 2008-07-17
- 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 = 164.2 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 129.0 V/m; Power Drift = 0.001 dB

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

Peak E-field in V/m

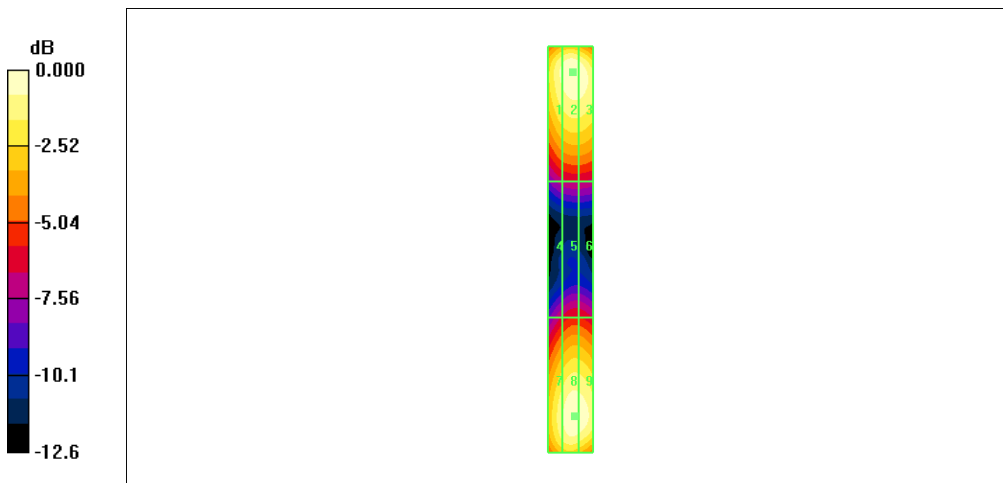
Grid 1	Grid 2	Grid 3
155.1 M4	164.2 M4	161.7 M4
Grid 4	Grid 5	Grid 6
77.5 M4	84.6 M4	84.1 M4
Grid 7	Grid 8	Grid 9
148.4 M4	161.8 M4	160.8 M4

Cursor:

Total = 164.2 V/m

E Category: M4

Location: -1, -78.5, 365.8 mm



0 dB = 164.2V/m

Test Laboratory: HCT CO., LTD.
Ambient Temperature 21.5 °C
Test Date Dec. 12, 2008

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 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2008-05-19
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn466; Calibrated: 2008-07-17
- 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 = 141.8 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 168.1 V/m; Power Drift = -0.023 dB

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

Peak E-field in V/m

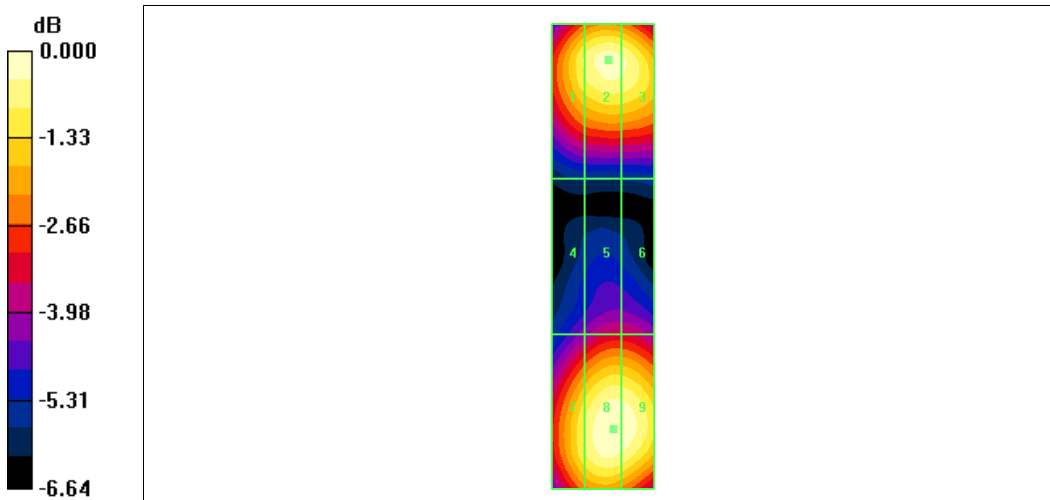
Grid 1	Grid 2	Grid 3
129.9 M2	138.5 M2	136.9 M2
Grid 4	Grid 5	Grid 6
88.0 M3	95.8 M3	95.7 M3
Grid 7	Grid 8	Grid 9
129.6 M2	141.8 M2	141.0 M2

Cursor:

Total = 141.8 V/m

E Category: M2

Location: -2, 33.5, 365.8 mm



0 dB = 141.8V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.5 °C

Test Date Dec. 12, 2008

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 176

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2008-05-19

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn466; Calibrated: 2008-07-17

- 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 = 0.449 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.561 A/m; Power Drift = -0.016 dB

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

Peak H-field in A/m

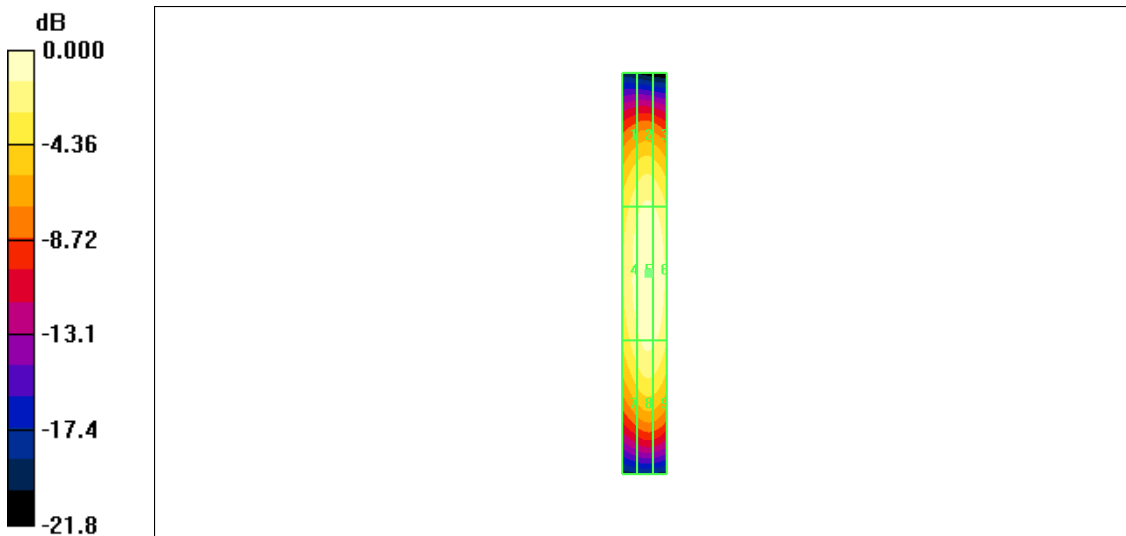
Grid 1	Grid 2	Grid 3
0.362 M4	0.392 M4	0.384 M4
Grid 4	Grid 5	Grid 6
0.410 M4	0.449 M4	0.441 M4
Grid 7	Grid 8	Grid 9
0.363 M4	0.399 M4	0.392 M4

Cursor:

Total = 0.449 A/m

H Category: M4

Location: -1.5, 0, 366.6 mm



0 dB = 0.449A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.5 °C

Test Date Dec. 12, 2008

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 176

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2008-05-19

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn466; Calibrated: 2008-07-17

- 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 = 0.475 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.581 A/m; Power Drift = -0.080 dB

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

Peak H-field in A/m

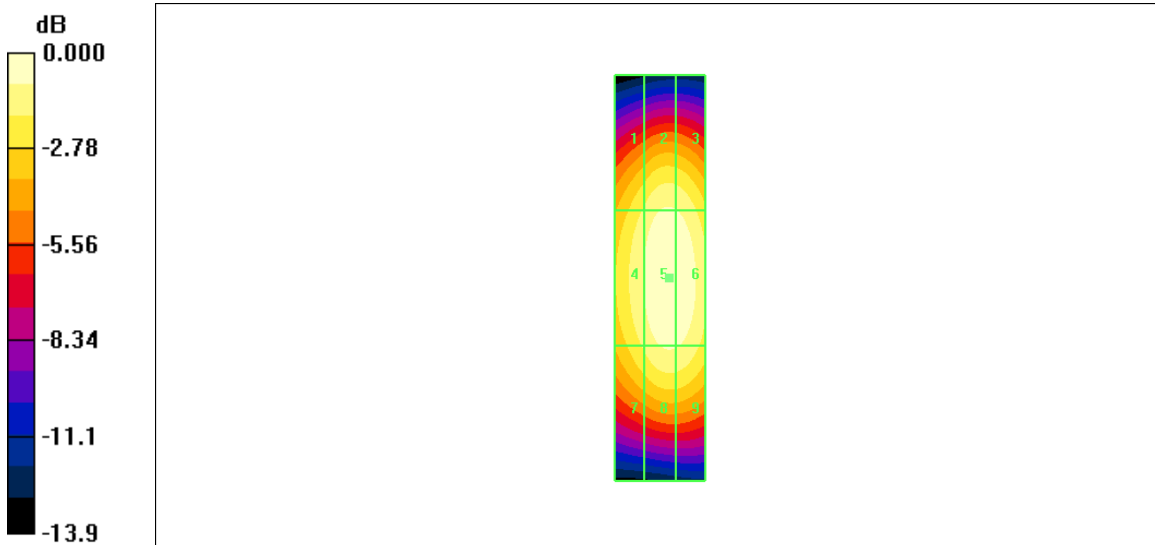
Grid 1	Grid 2	Grid 3
0.390 M2	0.433 M2	0.429 M2
Grid 4	Grid 5	Grid 6
0.429 M2	0.475 M2	0.471 M2
Grid 7	Grid 8	Grid 9
0.391 M2	0.433 M2	0.431 M2

Cursor:

Total = 0.475 A/m

H Category: M2

Location: -2, 0, 366.6 mm



0 dB = 0.475A/m