

APPENDIX C (DIPOLE VALIDATION)

Test Laboratory: HCT CO., LTD.
Ambient Temperature 21.5 °C
Test Date June 5, 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: ER3DV6R - SN2242; ConvF(1, 1, 1); Calibrated: 2010-09-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- 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 = 171.0 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 138.3 V/m; Power Drift = 0.002 dB

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

Peak E-field in V/m

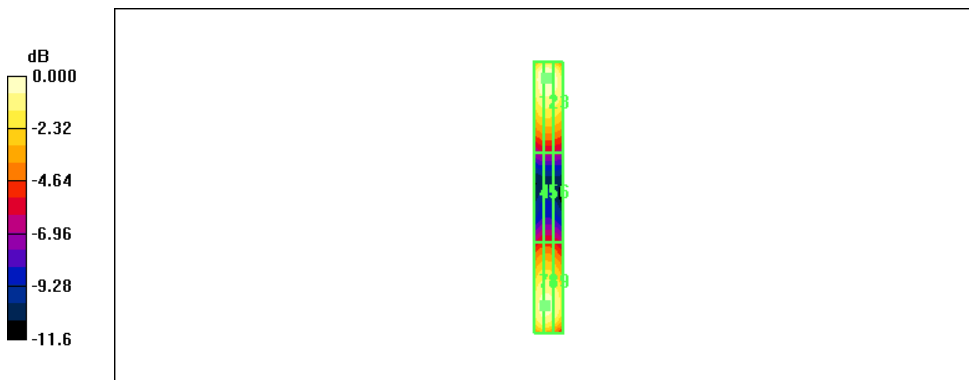
Grid 1 169.7 M4	Grid 2 171.0 M4	Grid 3 164.4 M4
Grid 4 94.9 M4	Grid 5 95.2 M4	Grid 6 92.3 M4
Grid 7 162.9 M4	Grid 8 163.2 M4	Grid 9 157.5 M4

Cursor:

Total = 171.0 V/m

E Category: M4

Location: 1.5, -79.5, 365.8 mm



0 dB = 171.0V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.5 °C

Test Date June 5, 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: ER3DV6R - SN2242; ConvF(1, 1, 1); Calibrated: 2010-09-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- 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 = 142.3 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 156.4 V/m; Power Drift = 0.014 dB

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

Peak E-field in V/m

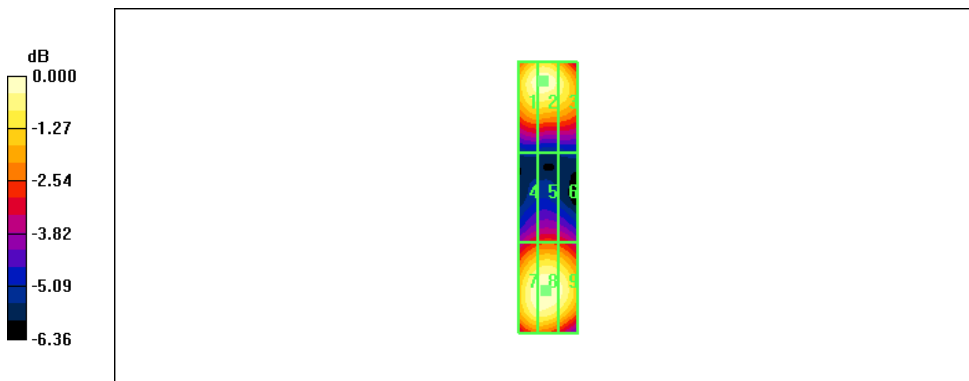
Grid 1	Grid 2	Grid 3
139.9 M2	140.6 M2	134.0 M2
Grid 4	Grid 5	Grid 6
103.2 M3	105.3 M3	103.2 M3
Grid 7	Grid 8	Grid 9
141.0 M2	142.3 M2	138.5 M2

Cursor:

Total = 142.3 V/m

E Category: M2

Location: 0.5, 31, 365.8 mm



0 dB = 142.3V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.5 °C

Test Date June 5, 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 - SN6051; ; Calibrated: 2010-09-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- 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 = 0.458 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 = -0.078 dB

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

Peak H-field in A/m

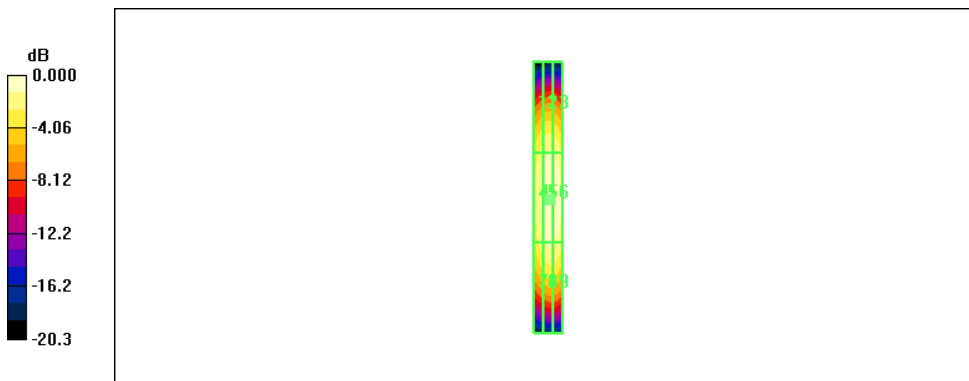
Grid 1	Grid 2	Grid 3
0.364 M4	0.397 M4	0.391 M4
Grid 4	Grid 5	Grid 6
0.419 M4	0.458 M4	0.452 M4
Grid 7	Grid 8	Grid 9
0.370 M4	0.405 M4	0.399 M4

Cursor:

Total = 0.458 A/m

H Category: M4

Location: -1.5, 1, 366.6 mm



0 dB = 0.458A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.5 °C

Test Date June 5, 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 - SN6051; ; Calibrated: 2010-09-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- 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 = 0.459 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 = 0.003 dB

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

Peak H-field in A/m

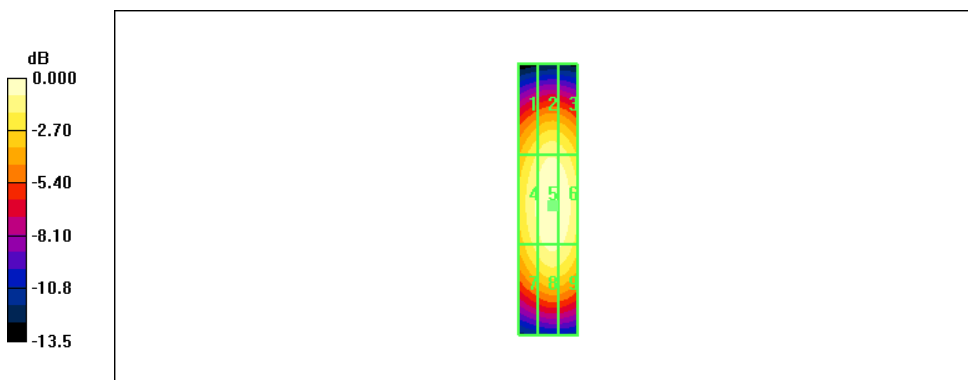
Grid 1	Grid 2	Grid 3
0.377 M2	0.408 M2	0.402 M2
Grid 4	Grid 5	Grid 6
0.425 M2	0.459 M2	0.453 M2
Grid 7	Grid 8	Grid 9
0.393 M2	0.427 M2	0.422 M2

Cursor:

Total = 0.459 A/m

H Category: M2

Location: -1.5, 2, 366.6 mm



0 dB = 0.459A/m