

APPENDIX C (DIPOLE VALIDATION)

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.3 °C
 Test Date: May.29, 2010

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 - SN2347; ConvF(1, 1, 1); Calibrated: 2009-09-18
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

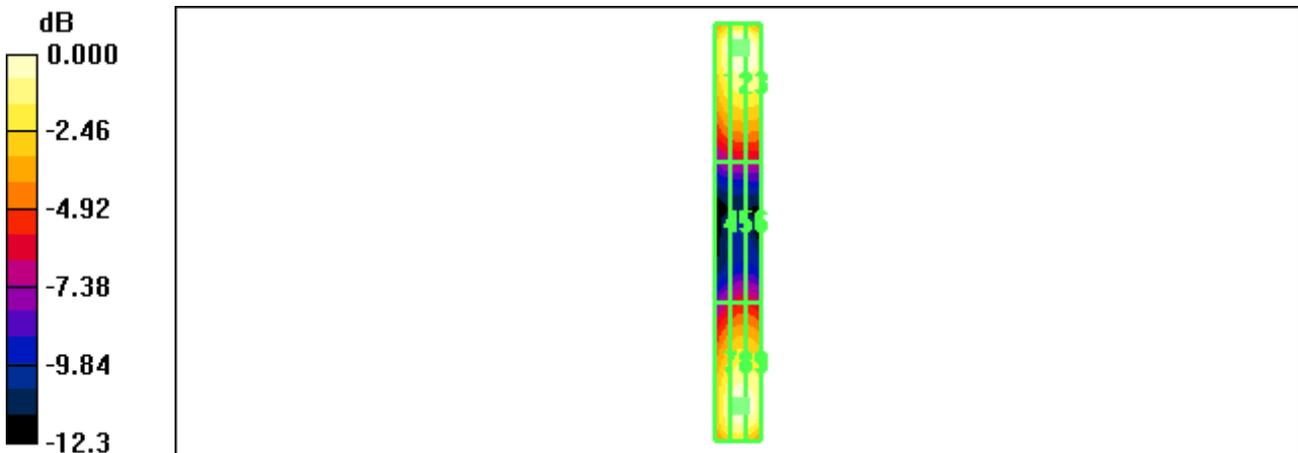
E Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 161.4 V/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 124.6 V/m; Power Drift = -0.018 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
153.0 M4	161.4 M4	159.6 M4
Grid 4	Grid 5	Grid 6
75.6 M4	81.5 M4	81.2 M4
Grid 7	Grid 8	Grid 9
145.6 M4	155.8 M4	154.6 M4

Cursor:

Total = 161.4 V/m
 E Category: M4
 Location: -1, -79, 365.8 mm



0 dB = 161.4V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.3 °C

Test Date May.29, 2010

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 - SN2347; ConvF(1, 1, 1); Calibrated: 2009-09-18
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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 = 138.5 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 166.9 V/m; Power Drift = 0.015 dB

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

Peak E-field in V/m

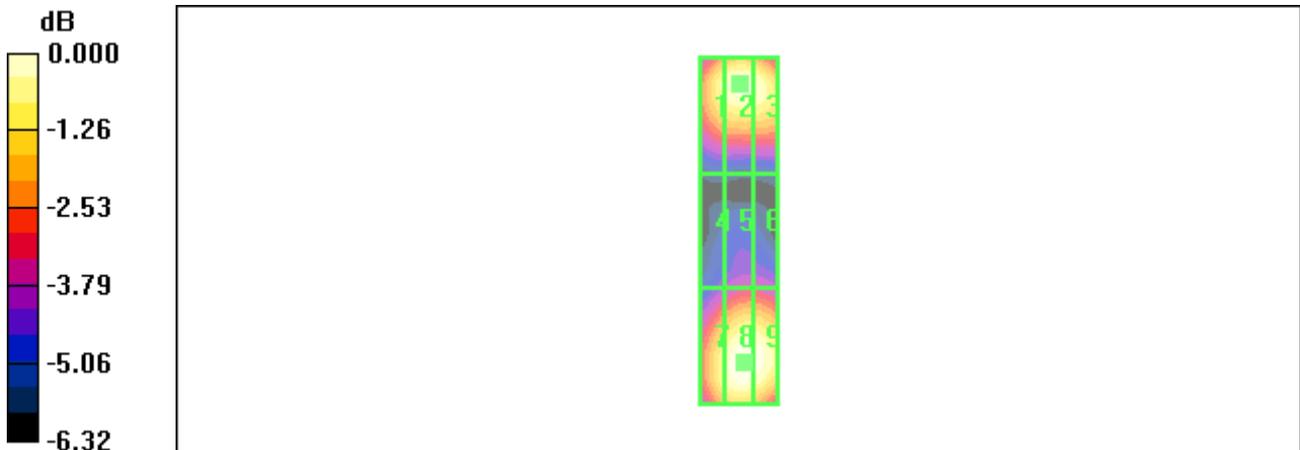
Grid 1	Grid 2	Grid 3
129.6 M2	135.9 M2	133.9 M2
Grid 4	Grid 5	Grid 6
86.8 M3	93.5 M3	93.4 M3
Grid 7	Grid 8	Grid 9
128.7 M2	138.5 M2	137.3 M2

Cursor:

Total = 138.5 V/m

E Category: M2

Location: -1.5, 34, 365.8 mm



0 dB = 138.5V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature: 21.5 °C

Test Date: May. 30, 2010

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 - SN6164; ; Calibrated: 2009-09-21
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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 = 0.461 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.562 A/m; Power Drift = 0.033 dB

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

Peak H-field in A/m

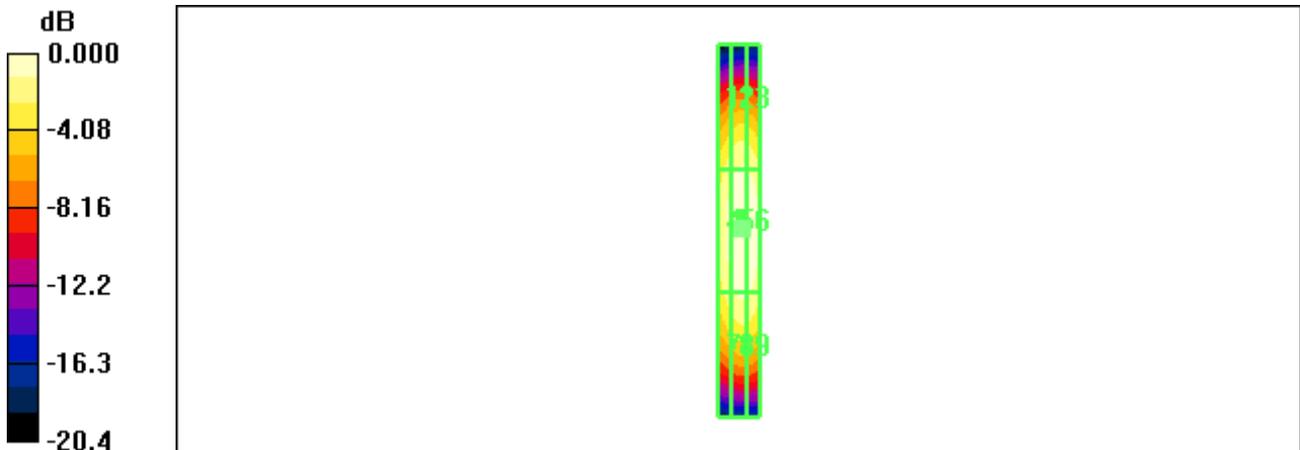
Grid 1	Grid 2	Grid 3
0.371 M4	0.401 M4	0.396 M4
Grid 4	Grid 5	Grid 6
0.427 M4	0.461 M4	0.457 M4
Grid 7	Grid 8	Grid 9
0.375 M4	0.406 M4	0.402 M4

Cursor:

Total = 0.461 A/m

H Category: M4

Location: -1.5, -1, 366.6 mm



0 dB = 0.461A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.5 °C
 Test Date: May. 30, 2010

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

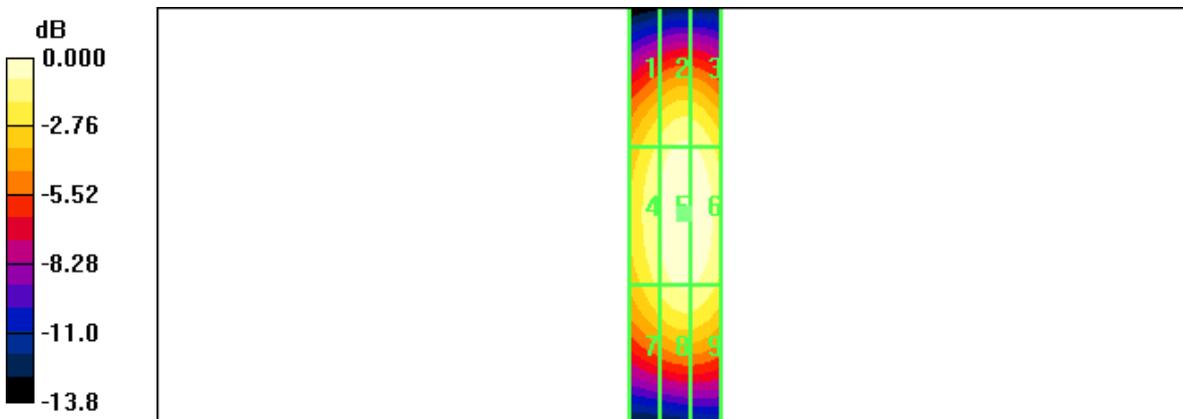
DASY4 Configuration:
 - Probe: H3DV6 - SN6164; ; Calibrated: 2009-09-21
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.489 A/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 0.597 A/m; Power Drift = -0.032 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.406 M2	0.448 M2	0.444 M2
Grid 4	Grid 5	Grid 6
0.444 M2	0.489 M2	0.485 M2
Grid 7	Grid 8	Grid 9
0.404 M2	0.445 M2	0.442 M2

Cursor:
 Total = 0.489 A/m
 H Category: M2
 Location: -2, -0.5, 366.6 mm



0 dB = 0.489A/m