

APPENDIX C (DIPOLE VALIDATION)

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.4 °C
 Test Date: Dec.18, 2009

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: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

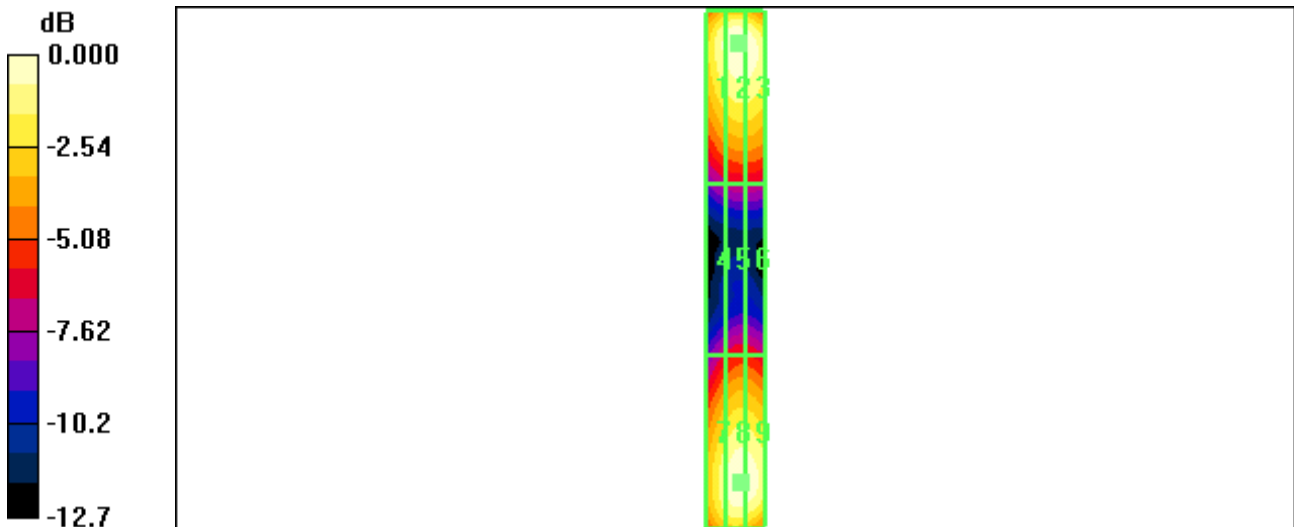
E Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 164.4 V/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 129.2 V/m; Power Drift = -0.004 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
154.8 M4	164.4 M4	162.1 M4
Grid 4	Grid 5	Grid 6
77.5 M4	85.0 M4	84.5 M4
Grid 7	Grid 8	Grid 9
148.3 M4	162.3 M4	161.3 M4

Cursor:

Total = 164.4 V/m
 E Category: M4
 Location: -1, -78.5, 365.8 mm



0 dB = 164.4V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.4 °C
 Test Date: Dec.18, 2009

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

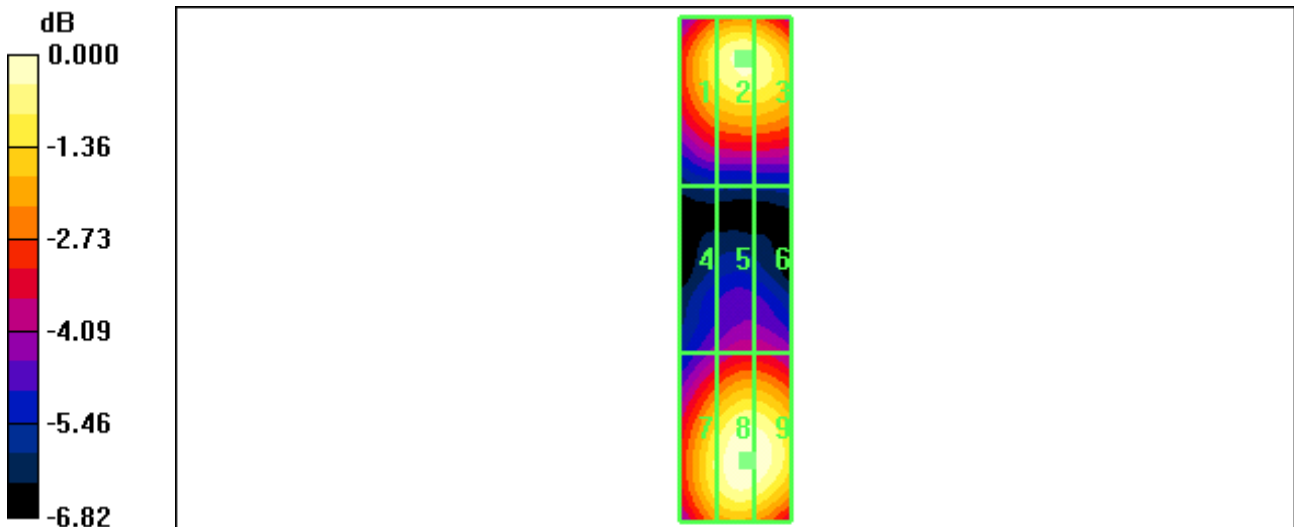
DASY4 Configuration:
 - Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 141.1 V/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 168.0 V/m; Power Drift = -0.030 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
127.3 M2	136.0 M2	134.4 M2
Grid 4	Grid 5	Grid 6
86.8 M3	94.2 M3	94.2 M3
Grid 7	Grid 8	Grid 9
129.1 M2	141.1 M2	140.3 M2

Cursor:
 Total = 141.1 V/m
 E Category: M2
 Location: -2, 34, 365.8 mm



0 dB = 141.1V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.4 °C

Test Date Dec.18, 2009

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: 2009-05-22

- 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 = 0.447 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.550 A/m; Power Drift = -0.011 dB

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

Peak H-field in A/m

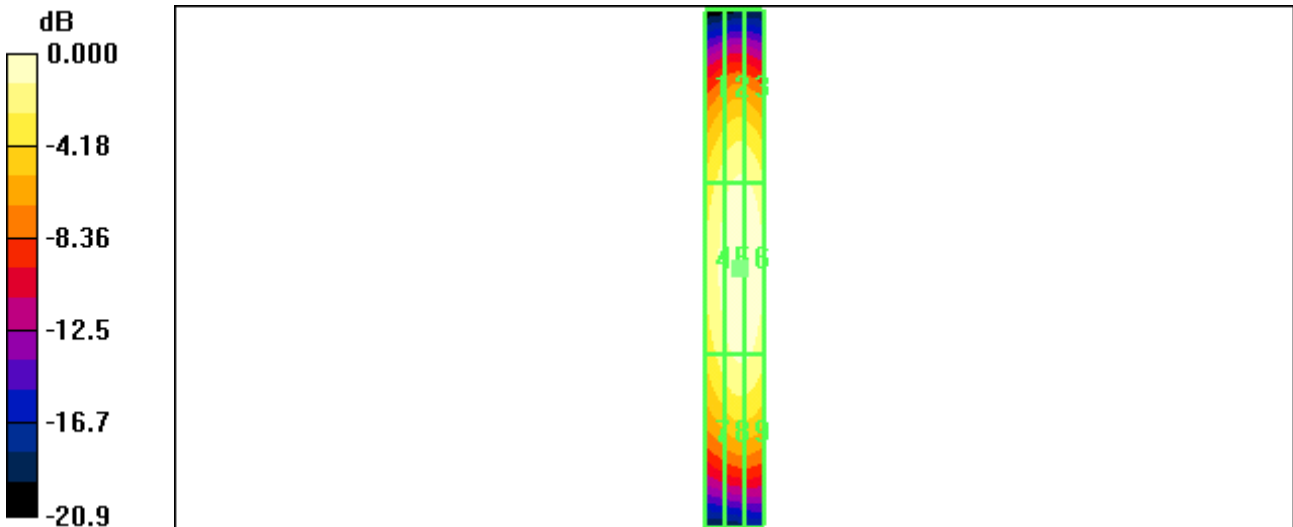
Grid 1	Grid 2	Grid 3
0.357 M4	0.392 M4	0.389 M4
Grid 4	Grid 5	Grid 6
0.405 M4	0.447 M4	0.444 M4
Grid 7	Grid 8	Grid 9
0.355 M4	0.392 M4	0.390 M4

Cursor:

Total = 0.447 A/m

H Category: M4

Location: -2, 0, 366.6 mm



0 dB = 0.447A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.4 °C
 Test Date: Dec.18, 2009

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: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

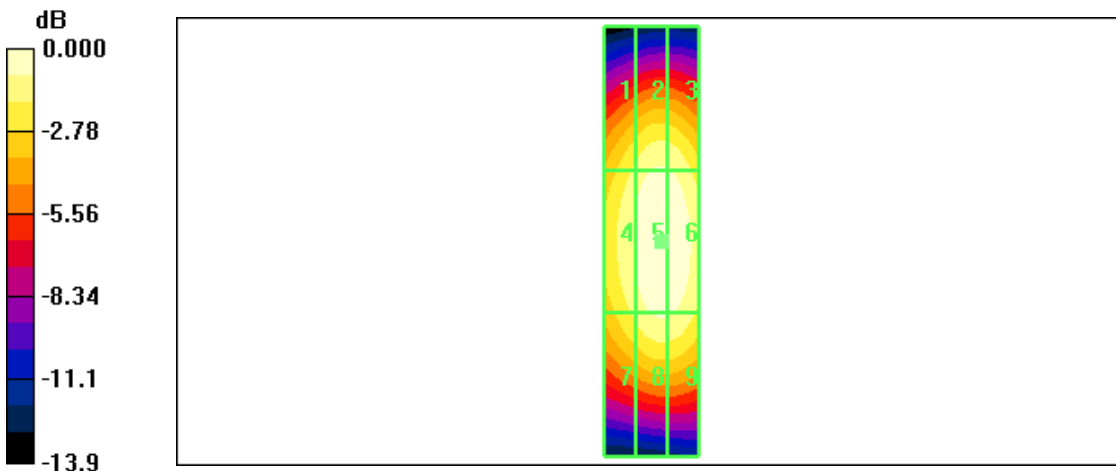
H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.466 A/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 0.569 A/m; Power Drift = -0.027 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.384 M2	Grid 2 0.424 M2	Grid 3 0.421 M2
Grid 4 0.424 M2	Grid 5 0.466 M2	Grid 6 0.463 M2
Grid 7 0.386 M2	Grid 8 0.426 M2	Grid 9 0.423 M2

Cursor:
 Total = 0.466 A/m
 H Category: M2
 Location: -2, 0, 366.6 mm



0 dB = 0.466A/m