

APPENDIX C (DIPOLE VALIDATION)

Test Laboratory: HCT CO., LTD.
 Ambient Temperature 21.3 °C
 Test Date Feb. 13, 2012

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

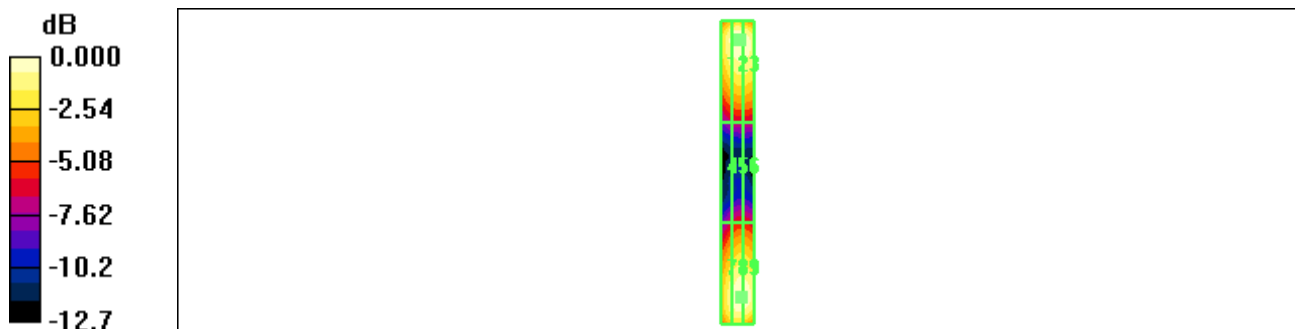
DASY4 Configuration:
 - Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2011-05-16
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 164.1 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 = -0.004 dB
 Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
154.7 M4	164.1 M4	161.8 M4
Grid 4	Grid 5	Grid 6
77.5 M4	84.9 M4	84.4 M4
Grid 7	Grid 8	Grid 9
148.3 M4	162.0 M4	161.0 M4

Cursor:
 Total = 164.1 V/m
 E Category: M4
 Location: -1, -78.5, 365.8 mm



0 dB = 164.1V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.3 °C

Test Date Feb. 13, 2012

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: DAE3 Sn466; Calibrated: 2011-03-01

- 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 = 142.1 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 167.6 V/m; Power Drift = -0.013 dB

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

Peak E-field in V/m

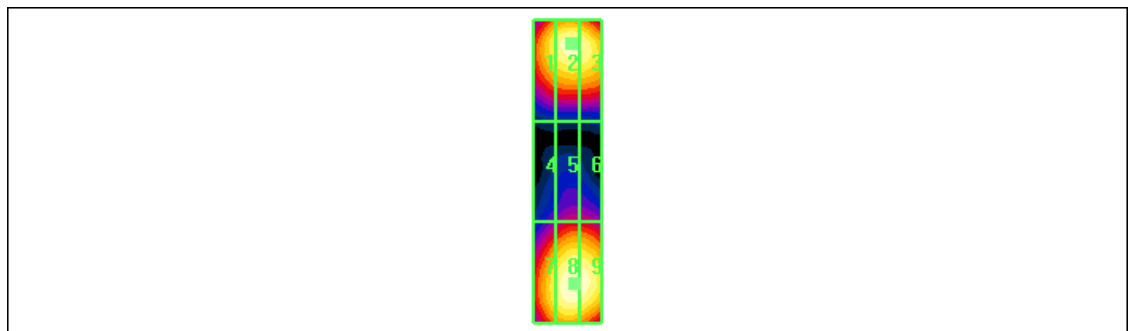
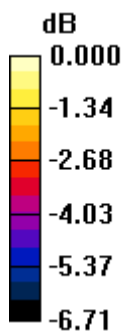
Grid 1 131.0 M2	Grid 2 139.2 M2	Grid 3 137.5 M2
Grid 4 88.1 M3	Grid 5 95.9 M3	Grid 6 95.8 M3
Grid 7 130.1 M2	Grid 8 142.1 M2	Grid 9 141.2 M2

Cursor:

Total = 142.1 V/m

E Category: M2

Location: -2, 33.5, 365.8 mm



0 dB = 142.1V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.3 °C

Test Date Feb. 13, 2012

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: DAE3 Sn466; Calibrated: 2011-03-01

- 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 = 0.452 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.563 A/m; Power Drift = -0.016 dB

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

Peak H-field in A/m

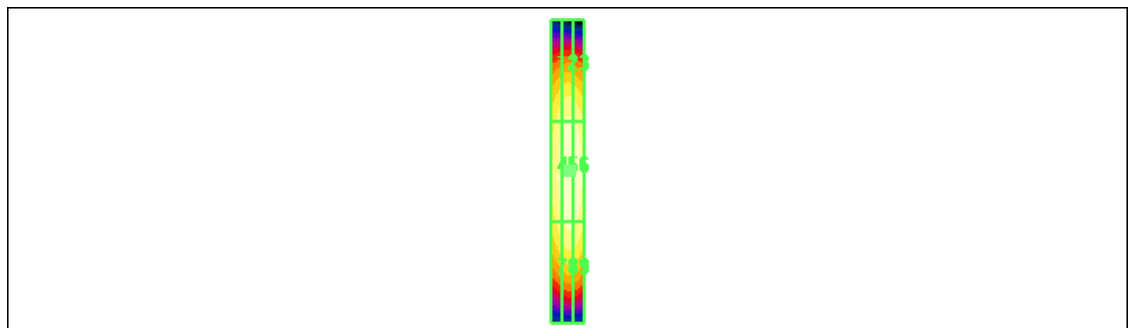
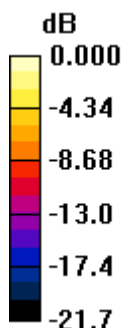
Grid 1	Grid 2	Grid 3
0.364 M4	0.395 M4	0.387 M4
Grid 4	Grid 5	Grid 6
0.412 M4	0.452 M4	0.444 M4
Grid 7	Grid 8	Grid 9
0.365 M4	0.402 M4	0.395 M4

Cursor:

Total = 0.452 A/m

H Category: M4

Location: -1.5, 0, 366.6 mm



0 dB = 0.452A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.3 °C

Test Date Feb. 13, 2012

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: DAE3 Sn466; Calibrated: 2011-03-01
- 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 = 0.565 A/m; Power Drift = 0.040 dB

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

Peak H-field in A/m

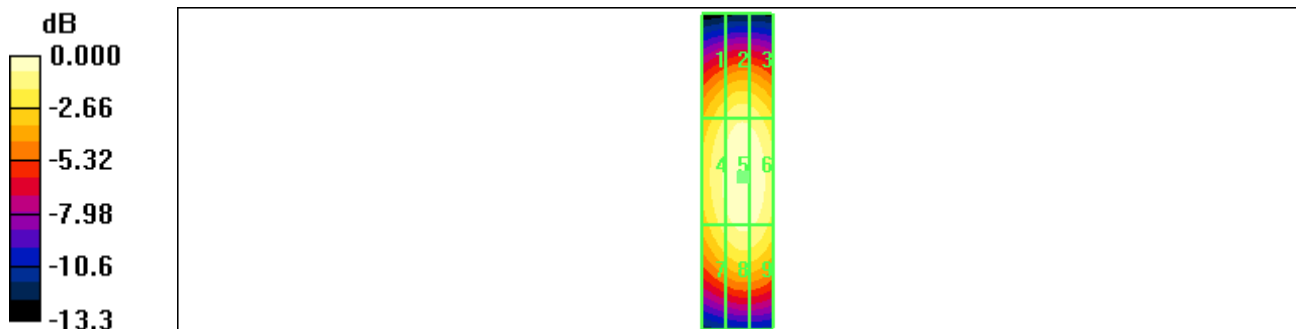
Grid 1 0.392 M2	Grid 2 0.423 M2	Grid 3 0.417 M2
Grid 4 0.441 M2	Grid 5 0.475 M2	Grid 6 0.469 M2
Grid 7 0.408 M2	Grid 8 0.442 M2	Grid 9 0.437 M2

Cursor:

Total = 0.475 A/m

H Category: M2

Location: -1.5, 1.5, 366.6 mm



0 dB = 0.475A/m