

APPENDIX C (DIPOLE VALIDATION)

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.4 °C
 Test Date: Oct.20, 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: DAE3 Sn466; Calibrated: 2009-07-21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

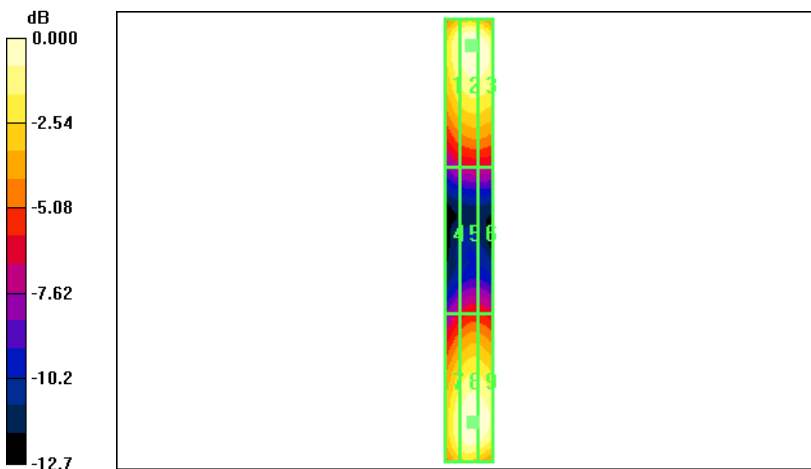
E Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 164.5 V/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 130.4 V/m; Power Drift = 0.029 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
154.5 M4	164.5 M4	162.8 M4
Grid 4	Grid 5	Grid 6
78.2 M4	85.5 M4	85.0 M4
Grid 7	Grid 8	Grid 9
150.5 M4	164.0 M4	162.7 M4

Cursor:

Total = 164.5 V/m
 E Category: M4
 Location: -1, -79, 365.8 mm



0 dB = 164.5V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.4 °C

Test Date Oct.20, 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: DAE3 Sn466; Calibrated: 2009-07-21

- 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 = 0.460 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.577 A/m; Power Drift = -0.046 dB

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

Peak H-field in A/m

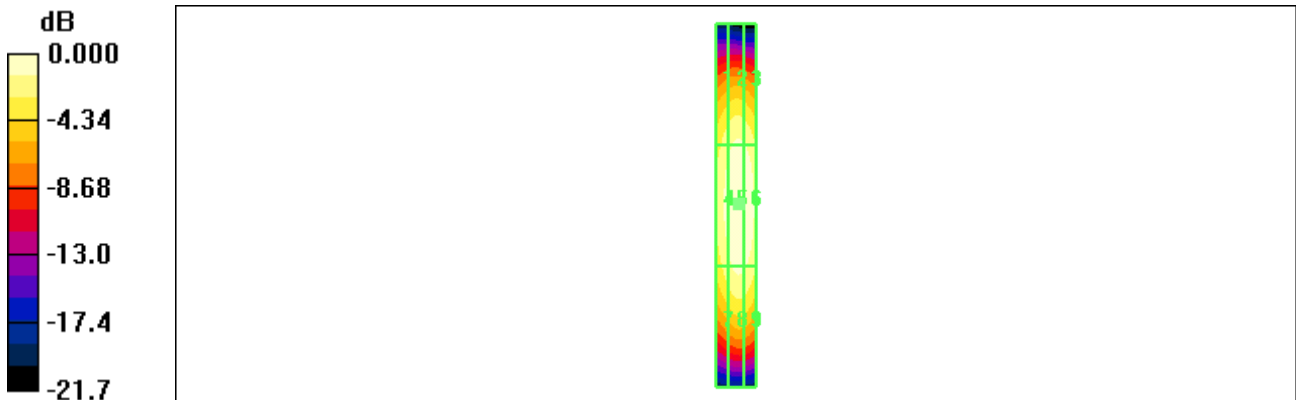
Grid 1	Grid 2	Grid 3
0.374 M4	0.403 M4	0.396 M4
Grid 4	Grid 5	Grid 6
0.422 M4	0.460 M4	0.453 M4
Grid 7	Grid 8	Grid 9
0.372 M4	0.408 M4	0.402 M4

Cursor:

Total = 0.460 A/m

H Category: M4

Location: -1.5, -0.5, 366.6 mm



0 dB = 0.460A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature: 21.4 °C

Test Date: Oct.20, 2009

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial:1019

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1₃
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
 Phantom section: E Device 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: DAE3 Sn466; Calibrated: 2009-07-21
- 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 = 138.8 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 73.9 V/m; Power Drift = -0.034 dB

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

Peak E-field in V/m

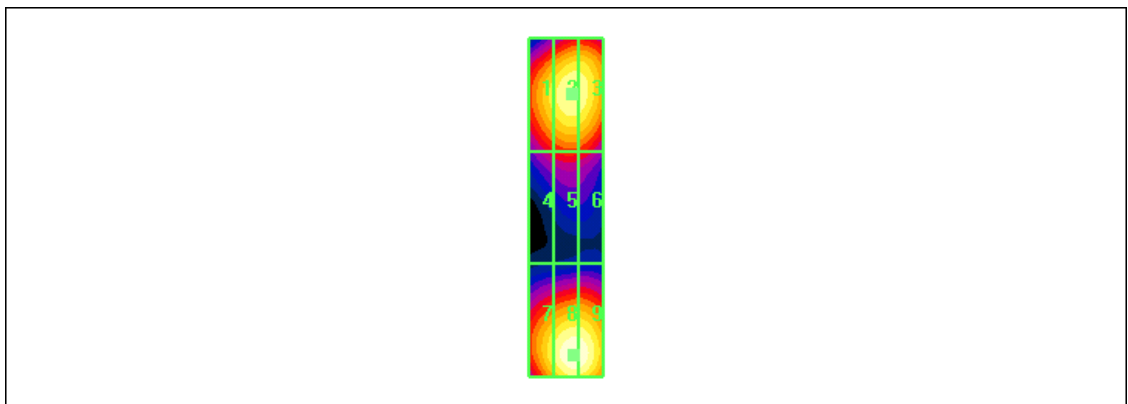
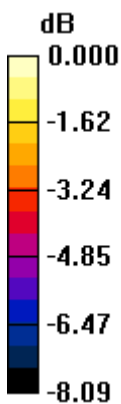
Grid 1	Grid 2	Grid 3
119.6 M2	130.8 M2	129.5 M2
Grid 4	Grid 5	Grid 6
88.8 M3	94.2 M3	92.6 M3
Grid 7	Grid 8	Grid 9
122.9 M2	138.8 M2	138.0 M2

Cursor:

Total = 138.8 V/m

E Category: M2

Location: -2, 39, 364.8 mm



0 dB = 138.8V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.4 °C
 Test Date: Oct.20, 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

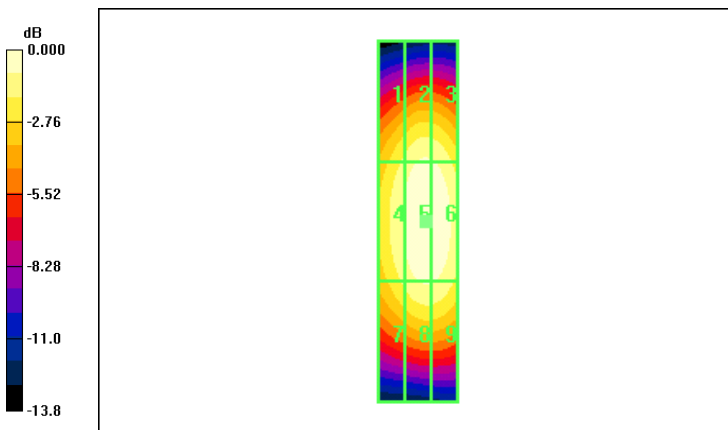
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn466; Calibrated: 2009-07-21
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.480 A/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 0.584 A/m; Power Drift = -0.021 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.397 M2	0.438 M2	0.434 M2
Grid 4	Grid 5	Grid 6
0.436 M2	0.480 M2	0.476 M2
Grid 7	Grid 8	Grid 9
0.397 M2	0.436 M2	0.434 M2

Cursor:
 Total = 0.480 A/m
 H Category: M2
 Location: -2, 0, 366.6 mm



0 dB = 0.480A/m