

APPENDIX C (DIPOLE VALIDATION)

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.5 °C
 Test Date: May 27, 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

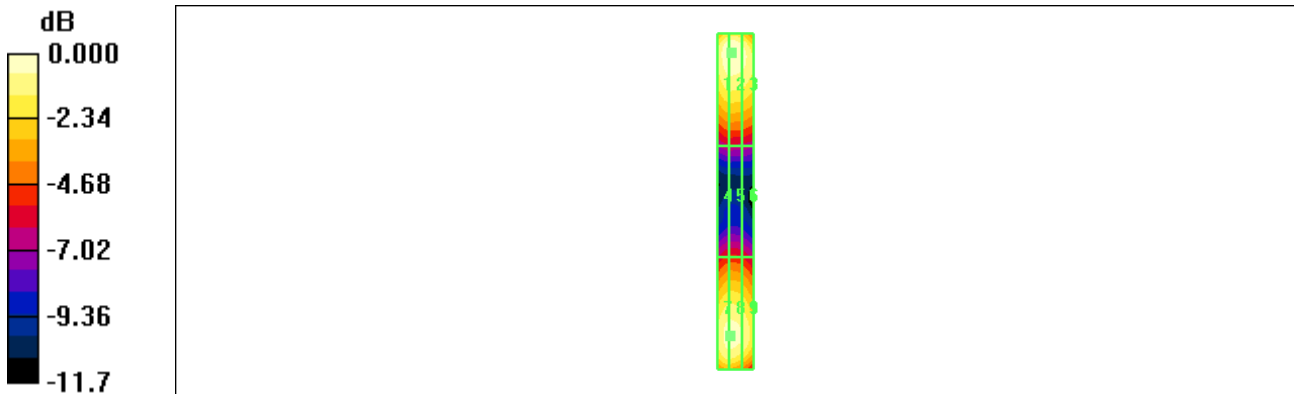
DASY4 Configuration:
 - Probe: ER3DV6R - SN2242; ConvF(1, 1, 1); Calibrated: 2010-09-20
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2010-09-21
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 173.1 V/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 139.8 V/m; Power Drift = -0.029 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 171.9 M4	Grid 2 173.1 M4	Grid 3 166.0 M4
Grid 4 95.6 M4	Grid 5 95.9 M4	Grid 6 92.9 M4
Grid 7 164.7 M4	Grid 8 164.9 M4	Grid 9 159.0 M4

Cursor:
 Total = 173.1 V/m
 E Category: M4
 Location: 2, -79.5, 365.8 mm



0 dB = 173.1V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.5 °C
 Test Date: May 27, 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

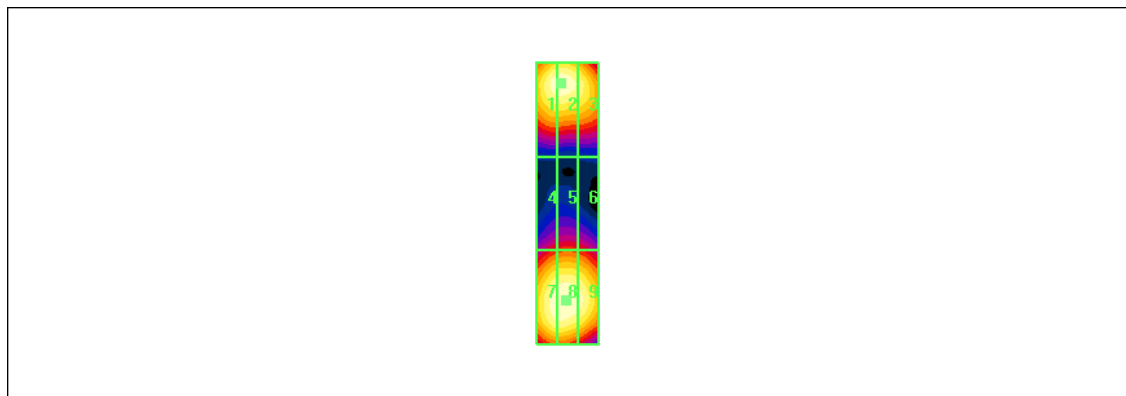
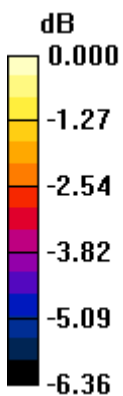
Maximum value of peak Total field = 144.0 V/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 158.4 V/m; Power Drift = 0.012 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak E-field in V/m

Grid 1 141.7 M2	Grid 2 142.3 M2	Grid 3 135.5 M2
Grid 4 104.4 M3	Grid 5 106.5 M3	Grid 6 104.4 M3
Grid 7 142.7 M2	Grid 8 144.0 M2	Grid 9 140.2 M2

Cursor:

Total = 144.0 V/m
 E Category: M2
 Location: 0.5, 31, 365.8 mm



0 dB = 144.0V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.5 °C
 Test Date: May 27, 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

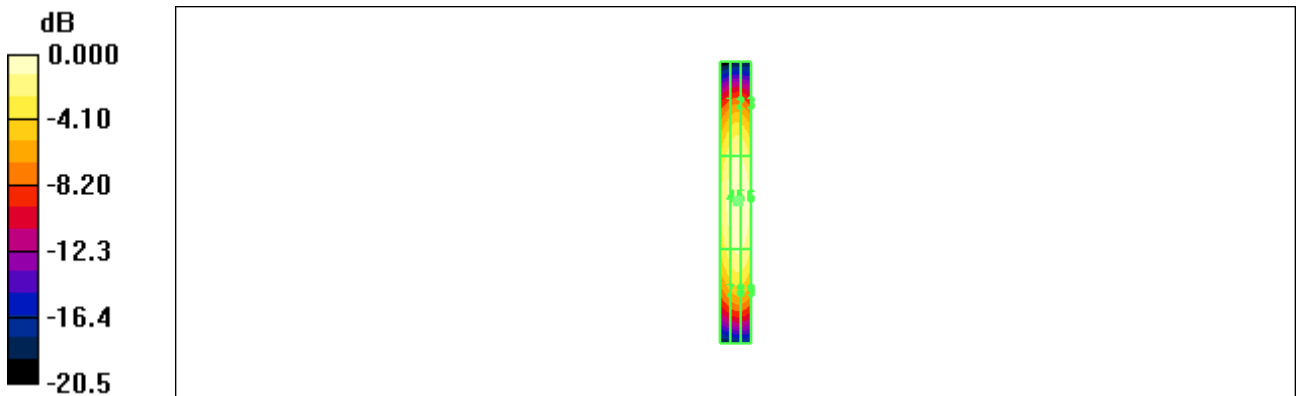
DASY4 Configuration:
 - Probe: H3DV6 - SN6051; ; Calibrated: 2010-09-20
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2010-09-21
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.470 A/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 0.571 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
0.374 M4	0.408 M4	0.401 M4
Grid 4	Grid 5	Grid 6
0.429 M4	0.470 M4	0.463 M4
Grid 7	Grid 8	Grid 9
0.378 M4	0.414 M4	0.408 M4

Cursor:
 Total = 0.470 A/m
 H Category: M4
 Location: -1.5, -1, 366.6 mm



0 dB = 0.470A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.5 °C
 Test Date: May 27, 2011

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial:1024

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

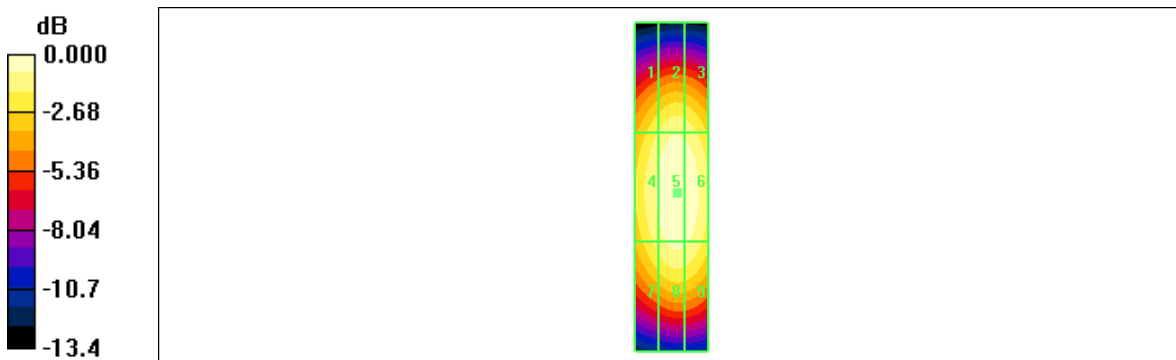
DASY4 Configuration:
 - Probe: H3DV6 - SN6051; ; Calibrated: 2010-09-20
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2010-09-21
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.483 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 = 0.016 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	0.431 M2	0.424 M2
Grid 4	Grid 5	Grid 6
0.447 M2	0.483 M2	0.477 M2
Grid 7	Grid 8	Grid 9
0.413 M2	0.450 M2	0.444 M2

Cursor:
 Total = 0.483 A/m
 H Category: M2
 Location: -1.5, 1.5, 366.6 mm



0 dB = 0.483A/m