

APPENDIX C (DIPOLE VALIDATION)

Test Laboratory: HCT CO., LTD.
Ambient Temperature 21.5 °C
Test Date Mar. 6, 2012

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial:#1

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: 2012-02-21
- 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 = 163.9 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 129.1 V/m; Power Drift = 0.001 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

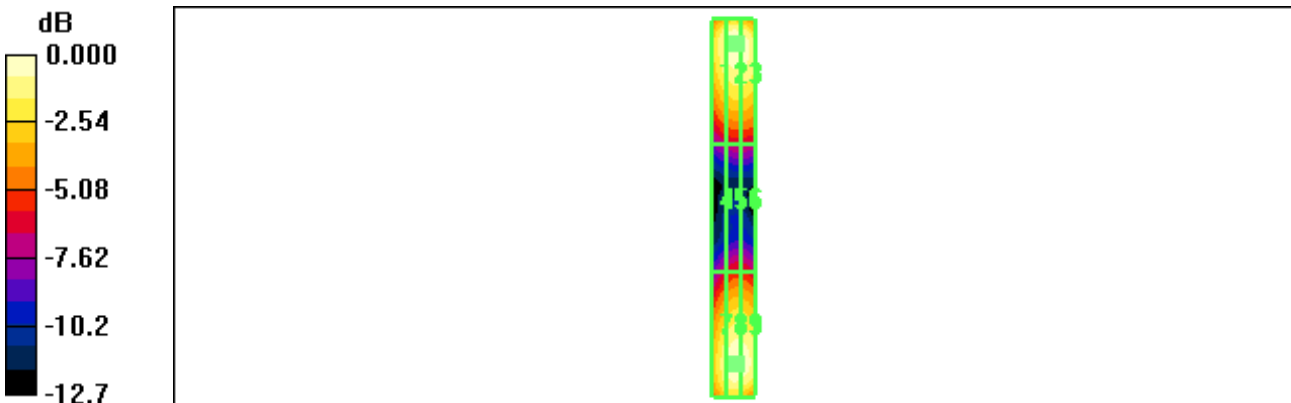
Grid 1 154.8 M4	Grid 2 163.9 M4	Grid 3 161.5 M4
Grid 4 77.6 M4	Grid 5 84.7 M4	Grid 6 84.2 M4
Grid 7 148.3 M4	Grid 8 161.7 M4	Grid 9 160.7 M4

Cursor:

Total = 163.9 V/m

E Category: M4

Location: -1, -78.5, 365.8 mm



0 dB = 163.9V/m

Test Laboratory: HCT CO., LTD.
Ambient Temperature 21.5 °C
Test Date Mar. 6, 2012

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: #1

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: 2012-02-21
- 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 = 141.7 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 167.3 V/m; Power Drift = -0.023 dB

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

Peak E-field in V/m

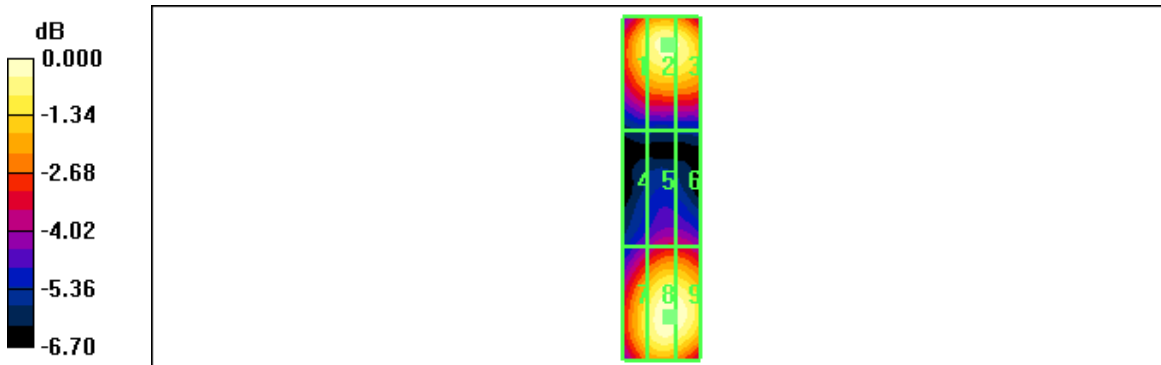
Grid 1	Grid 2	Grid 3
129.6 M2	138.3 M2	136.7 M2
Grid 4	Grid 5	Grid 6
87.8 M3	95.7 M3	95.7 M3
Grid 7	Grid 8	Grid 9
129.4 M2	141.7 M2	140.8 M2

Cursor:

Total = 141.7 V/m

E Category: M2

Location: -2, 33.5, 365.8 mm



0 dB = 141.7V/m

Test Laboratory: HCT CO., LTD.
Ambient Temperature: 21.5 °C
Test Date: Mar. 6, 2012

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial:#1

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

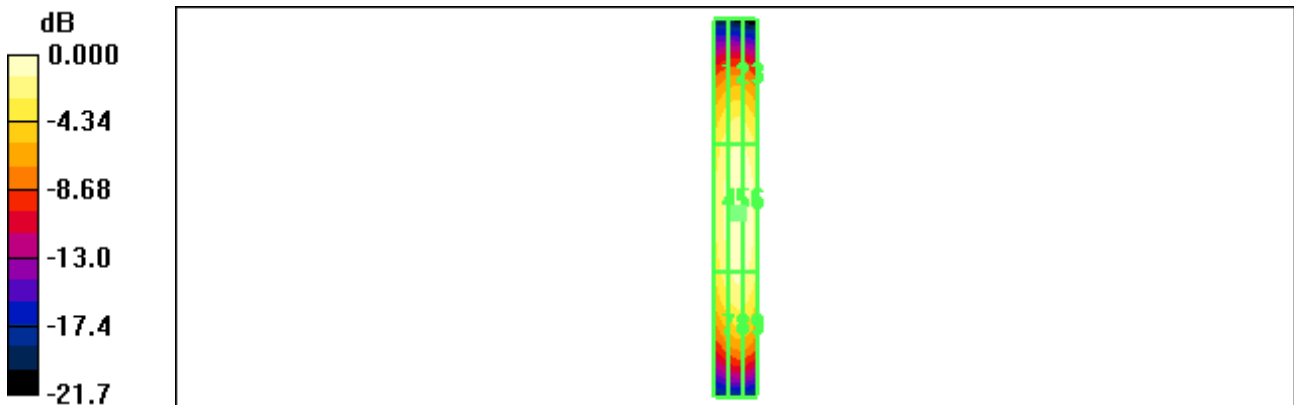
DASY4 Configuration:
- Probe: H3DV6 - SN6101; ; Calibrated: 2011-05-18
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn466; Calibrated: 2012-02-21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.447 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 0.556 A/m; Power Drift = -0.004 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.356 M4	0.385 M4	0.378 M4
Grid 4	Grid 5	Grid 6
0.408 M4	0.447 M4	0.441 M4
Grid 7	Grid 8	Grid 9
0.364 M4	0.403 M4	0.397 M4

Cursor:
Total = 0.447 A/m
H Category: M4
Location: -1.5, 2.5, 366.6 mm



0 dB = 0.447A/m

Test Laboratory: HCT CO., LTD.
Ambient Temperature 21.5 °C
Test Date Mar. 6, 2012

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: #1

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: 2012-02-21
- 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 = 0.475 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

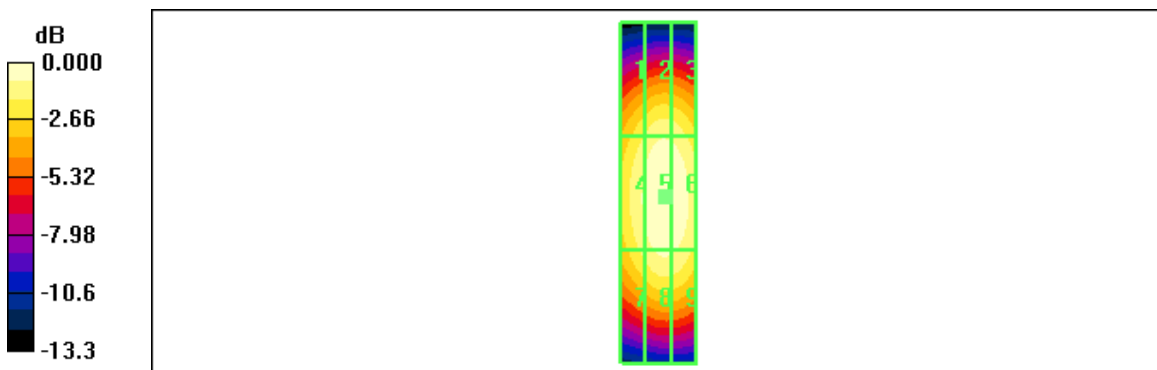
Grid 1	Grid 2	Grid 3
0.392 M2	0.423 M2	0.417 M2
Grid 4	Grid 5	Grid 6
0.441 M2	0.475 M2	0.469 M2
Grid 7	Grid 8	Grid 9
0.408 M2	0.442 M2	0.437 M2

Cursor:

Total = 0.475 A/m

H Category: M2

Location: -1.5, 1.5, 366.6 mm



0 dB = 0.475A/m