

APPENDIX A. HAC TEST PLOTS

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /128

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

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 - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 103.8 V/m

Probe Modulation Factor = 2.68

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 50.8 V/m; Power Drift = -0.032 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak E-field in V/m

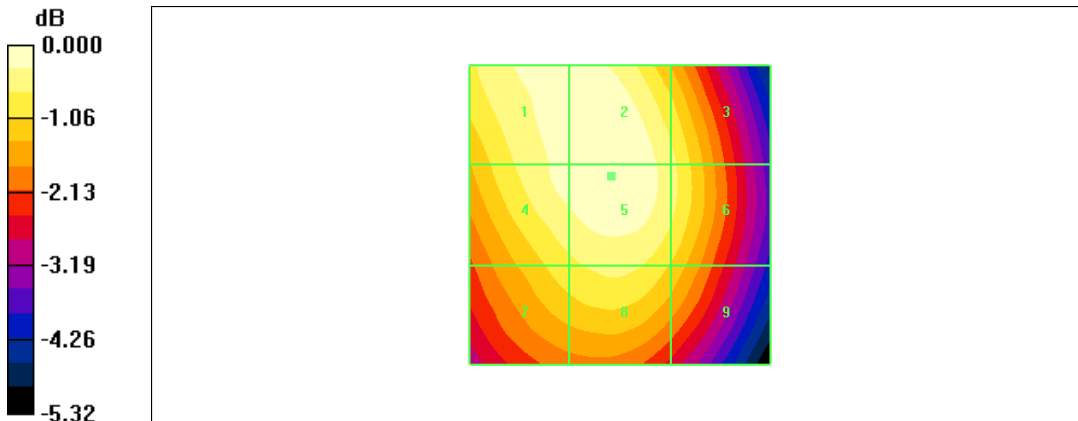
Grid 1	Grid 2	Grid 3
102.3 M4	103.7 M4	96.9 M4
Grid 4	Grid 5	Grid 6
101.6 M4	103.8 M4	97.3 M4
Grid 7	Grid 8	Grid 9
94.6 M4	96.9 M4	91.4 M4

Cursor:

Total = 103.8 V/m

E Category: M4

Location: 1.5, -6.5, 370.9 mm



0 dB = 103.8V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /190

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

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 - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 99.0 V/m

Probe Modulation Factor = 2.68

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 47.9 V/m; Power Drift = -0.017 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak E-field in V/m

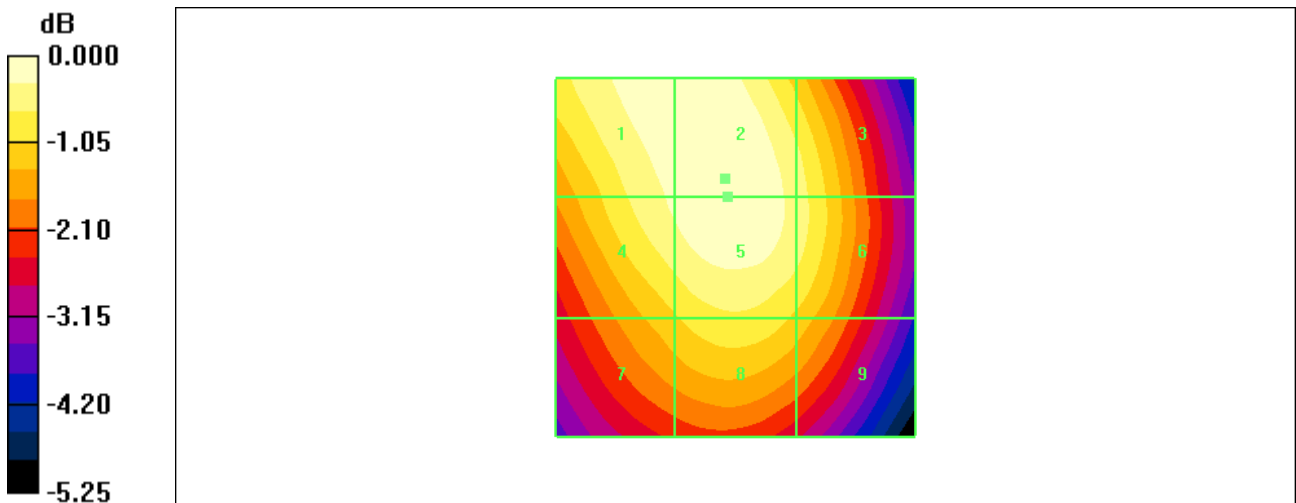
Grid 1	Grid 2	Grid 3
98.0 M4	99.0 M4	93.4 M4
Grid 4	Grid 5	Grid 6
96.0 M4	98.9 M4	93.6 M4
Grid 7	Grid 8	Grid 9
87.2 M4	90.7 M4	86.9 M4

Cursor:

Total = 99.0 V/m

E Category: M4

Location: 1.5, -11, 370.9 mm



0 dB = 99.0V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /251

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

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 - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 94.2 V/m

Probe Modulation Factor = 2.68

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 45.5 V/m; Power Drift = 0.006 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak E-field in V/m

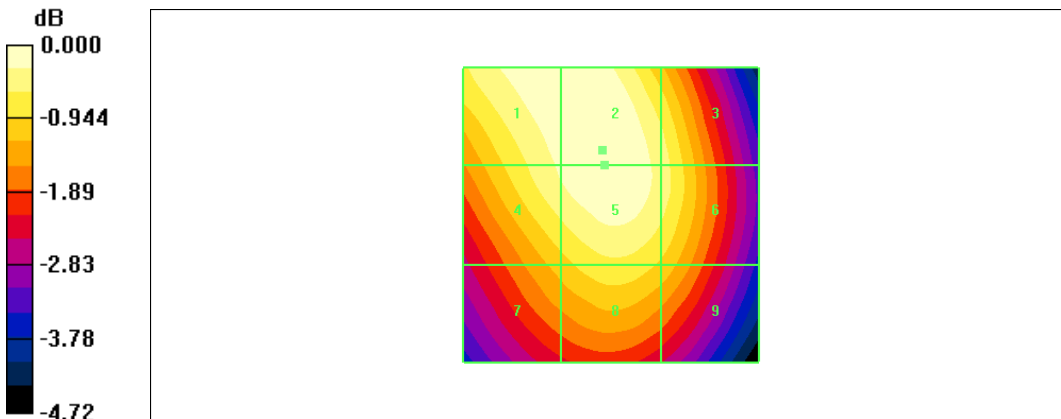
Grid 1	Grid 2	Grid 3
93.6 M4	94.2 M4	89.4 M4
Grid 4	Grid 5	Grid 6
91.5 M4	94.1 M4	89.6 M4
Grid 7	Grid 8	Grid 9
83.1 M4	86.9 M4	83.9 M4

Cursor:

Total = 94.2 V/m

E Category: M4

Location: 1.5, -11, 370.9 mm



0 dB = 94.2V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /512

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

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 - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 66.4 V/m

Probe Modulation Factor = 2.57

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 30.8 V/m; Power Drift = -0.021 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

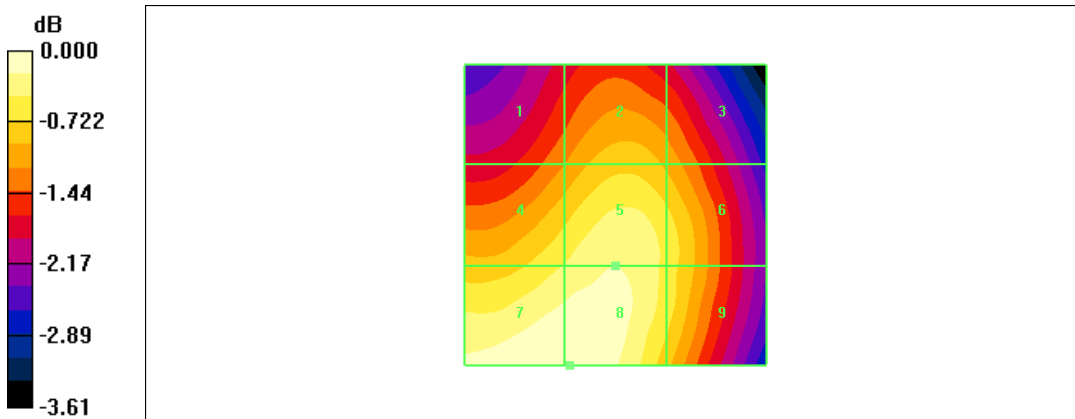
Grid 1	Grid 2	Grid 3
57.8 M3	60.6 M3	59.1 M3
Grid 4	Grid 5	Grid 6
62.9 M3	64.6 M3	62.3 M3
Grid 7	Grid 8	Grid 9
66.4 M3	66.4 M3	62.2 M3

Cursor:

Total = 66.4 V/m

E Category: M3

Location: 7.5, 25, 370.9 mm



0 dB = 66.4V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /661

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

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 - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 67.5 V/m

Probe Modulation Factor = 2.57

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 28.4 V/m; Power Drift = -0.016 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

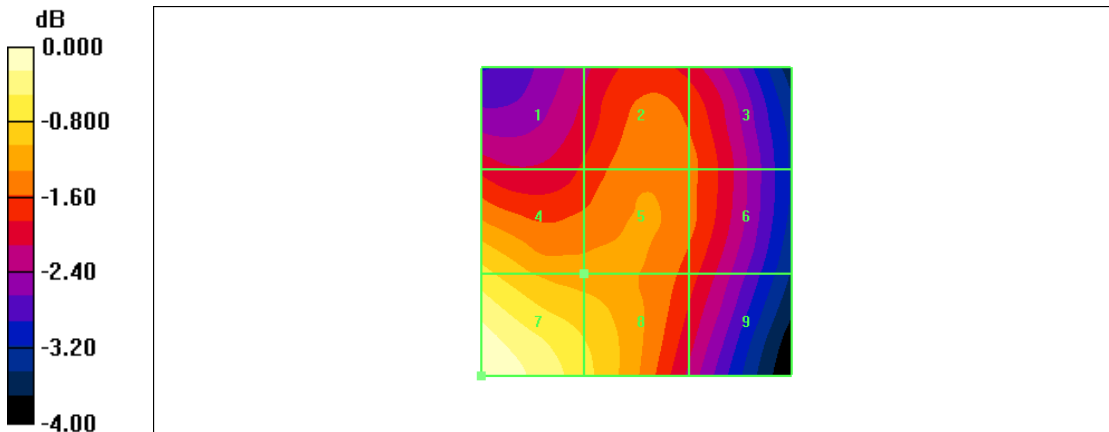
Grid 1	Grid 2	Grid 3
54.8 M3	57.7 M3	56.8 M3
Grid 4	Grid 5	Grid 6
62.3 M3	58.9 M3	56.8 M3
Grid 7	Grid 8	Grid 9
67.5 M3	62.2 M3	55.3 M3

Cursor:

Total = 67.5 V/m

E Category: M3

Location: 25, 25, 370.9 mm



0 dB = 67.5V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /810

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

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 - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 68.2 V/m

Probe Modulation Factor = 2.57

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 28.7 V/m; Power Drift = 0.030 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

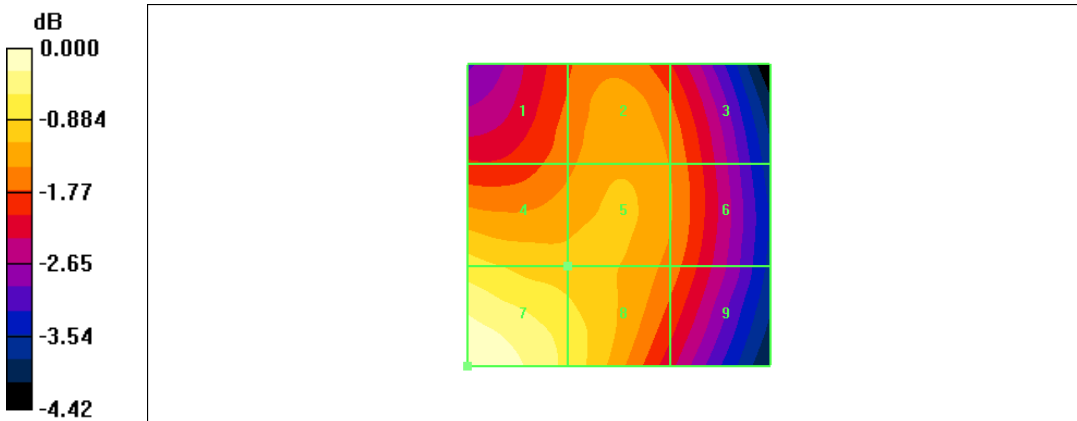
Grid 1	Grid 2	Grid 3
57.0 M3	59.3 M3	57.4 M3
Grid 4	Grid 5	Grid 6
62.6 M3	60.6 M3	57.8 M3
Grid 7	Grid 8	Grid 9
68.2 M3	63.1 M3	56.7 M3

Cursor:

Total = 68.2 V/m

E Category: M3

Location: 25, 25, 370.9 mm



0 dB = 68.2V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /128

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E 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 - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.174 A/m

Probe Modulation Factor = 2.02

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.043 A/m; Power Drift = -0.103 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

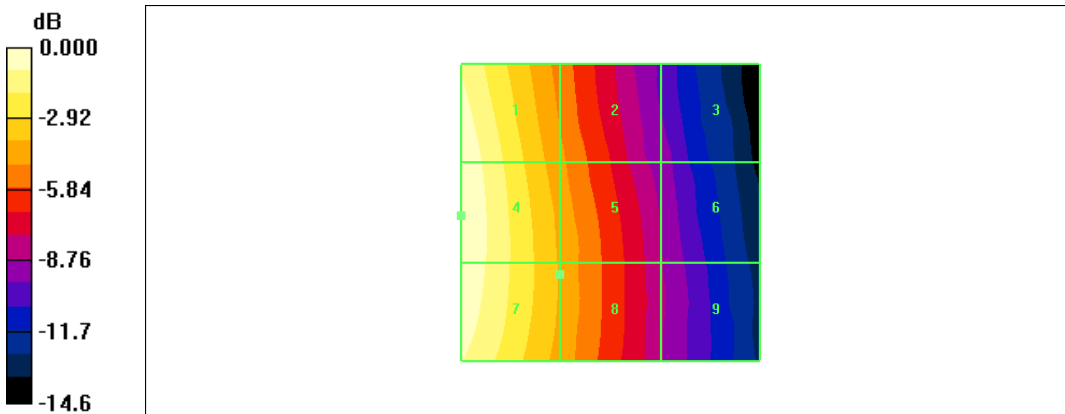
Grid 1 0.171 M4	Grid 2 0.103 M4	Grid 3 0.060 M4
Grid 4 0.174 M4	Grid 5 0.110 M4	Grid 6 0.064 M4
Grid 7 0.172 M4	Grid 8 0.110 M4	Grid 9 0.065 M4

Cursor:

Total = 0.174 A/m

H Category: M4

Location: 25, 0.5, 370.9 mm



0 dB = 0.174A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /190

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E 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 - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.172 A/m

Probe Modulation Factor = 2.02

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.041 A/m; Power Drift = -0.007 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

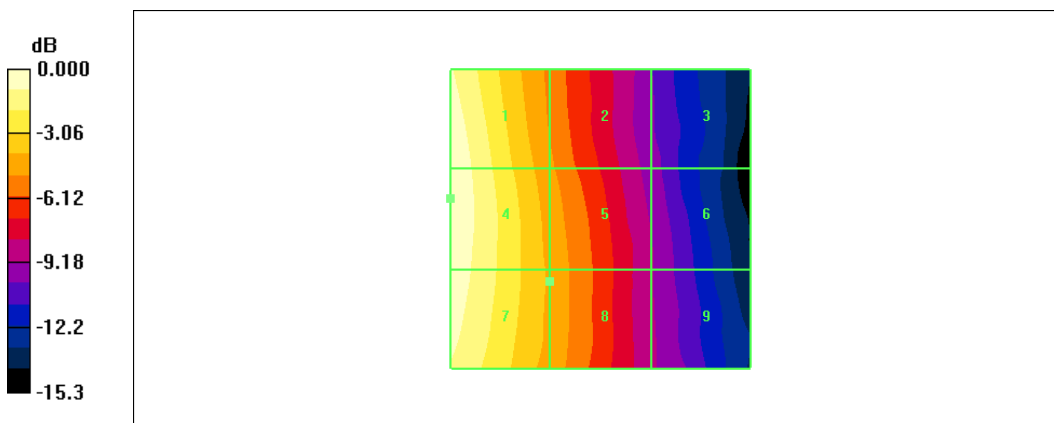
Grid 1	Grid 2	Grid 3
0.170 M4	0.099 M4	0.057 M4
Grid 4	Grid 5	Grid 6
0.172 M4	0.105 M4	0.061 M4
Grid 7	Grid 8	Grid 9
0.166 M4	0.106 M4	0.062 M4

Cursor:

Total = 0.172 A/m

H Category: M4

Location: 25, -3.5, 370.9 mm



0 dB = 0.172A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /251

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E 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 - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.174 A/m

Probe Modulation Factor = 2.02

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.040 A/m; Power Drift = 0.012 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

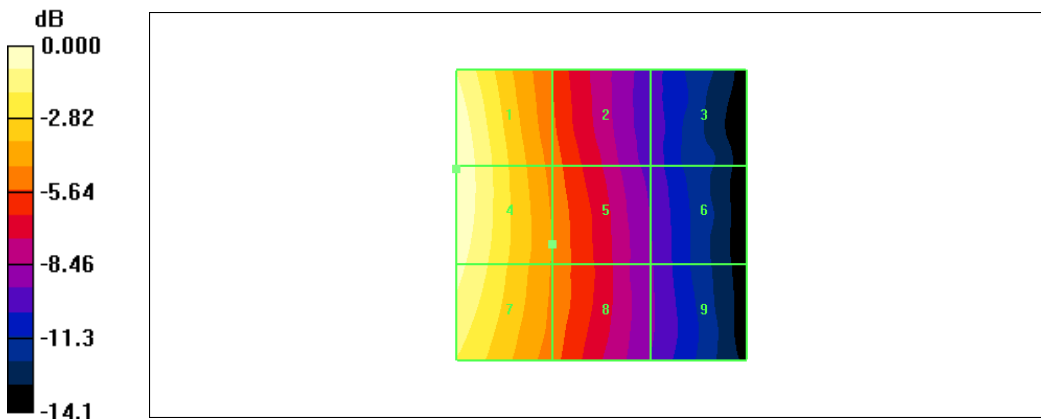
Grid 1	Grid 2	Grid 3
0.174 M4	0.097 M4	0.057 M4
Grid 4	Grid 5	Grid 6
0.174 M4	0.101 M4	0.060 M4
Grid 7	Grid 8	Grid 9
0.162 M4	0.101 M4	0.060 M4

Cursor:

Total = 0.174 A/m

H Category: M4

Location: 25, -8, 370.9 mm



0 dB = 0.174A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /512

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E 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 - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.144 A/m

Probe Modulation Factor = 2.25

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.056 A/m; Power Drift = 0.006 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak H-field in A/m

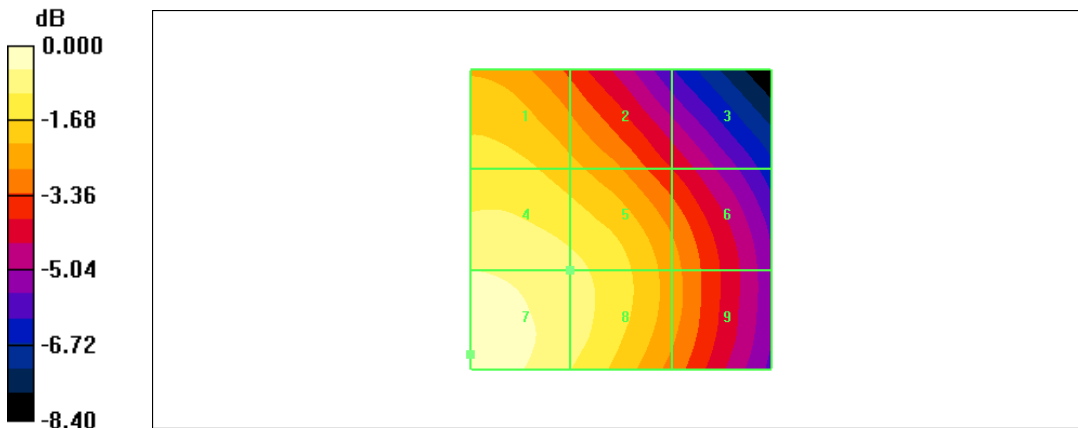
Grid 1 0.122 M4	Grid 2 0.114 M4	Grid 3 0.092 M4
Grid 4 0.135 M4	Grid 5 0.129 M4	Grid 6 0.107 M4
Grid 7 0.144 M3	Grid 8 0.130 M4	Grid 9 0.108 M4

Cursor:

Total = 0.144 A/m

H Category: M3

Location: 25, 22.5, 370.9 mm



0 dB = 0.144A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /661

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E 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 - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.139 A/m

Probe Modulation Factor = 2.25

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.060 A/m; Power Drift = 0.023 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

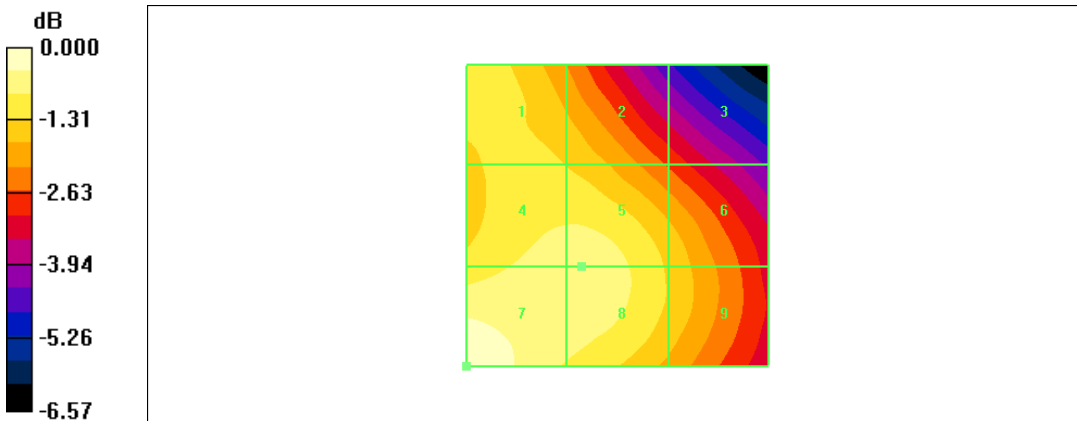
Grid 1 0.123 M4	Grid 2 0.119 M4	Grid 3 0.102 M4
Grid 4 0.128 M4	Grid 5 0.129 M4	Grid 6 0.118 M4
Grid 7 0.139 M4	Grid 8 0.129 M4	Grid 9 0.119 M4

Cursor:

Total = 0.139 A/m

H Category: M4

Location: 25, 25, 370.9 mm



0 dB = 0.139A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.3 °C /810
 Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom section: E Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

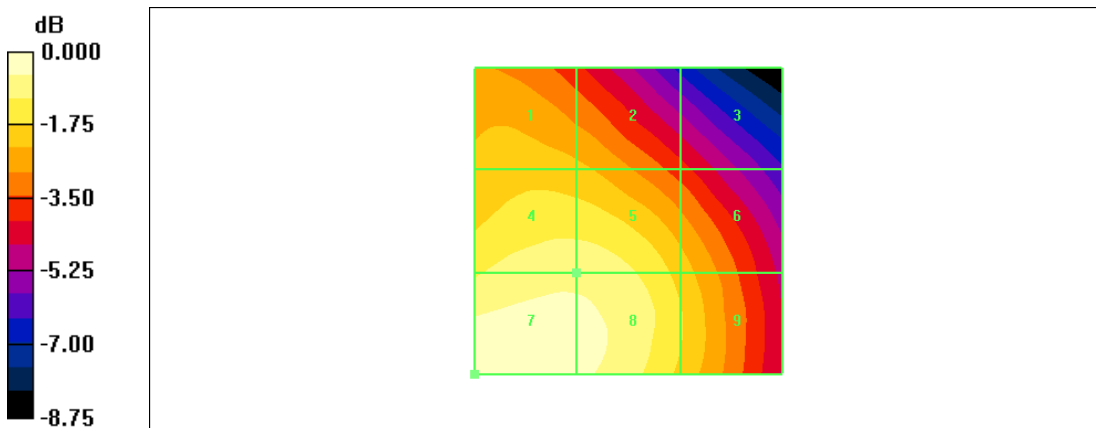
DASY4 Configuration:
 - Probe: H3DV6 - SN6051; ; Calibrated: 2010-09-20
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2010-09-21
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.144 A/m
 Probe Modulation Factor = 2.25
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 0.056 A/m; Power Drift = 0.061 dB
Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.114 M4	0.112 M4	0.093 M4
Grid 4	Grid 5	Grid 6
0.132 M4	0.132 M4	0.114 M4
Grid 7	Grid 8	Grid 9
0.144 M3	0.138 M4	0.119 M4

Cursor:
 Total = 0.144 A/m
 H Category: M3
 Location: 25, 25, 370.9 mm



0 dB = 0.144A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /4132

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: WCDMA850; Frequency: 826.4 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 - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

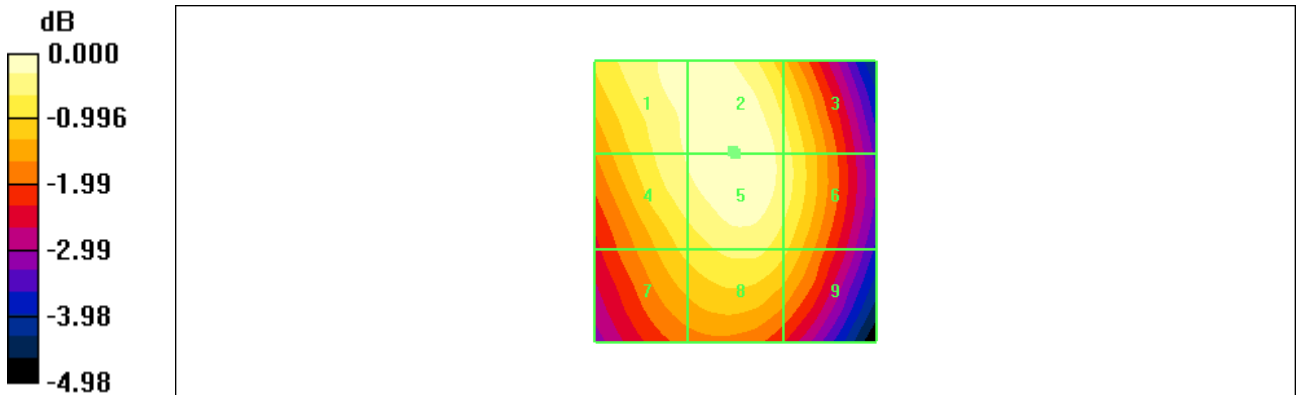
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 30.6 V/m
 Probe Modulation Factor = 0.824
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 48.0 V/m; Power Drift = 0.013 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
30.0 M4	30.6 M4	29.0 M4
Grid 4	Grid 5	Grid 6
29.6 M4	30.6 M4	29.1 M4
Grid 7	Grid 8	Grid 9
27.6 M4	28.7 M4	27.6 M4

Cursor:

Total = 30.6 V/m
 E Category: M4
 Location: 0.5, -9, 370.9 mm



0 dB = 30.6V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /4183

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: WCDMA850; Frequency: 836.6 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 - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 31.4 V/m

Probe Modulation Factor = 0.824

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 47.9 V/m; Power Drift = 0.145 dB

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

Peak E-field in V/m

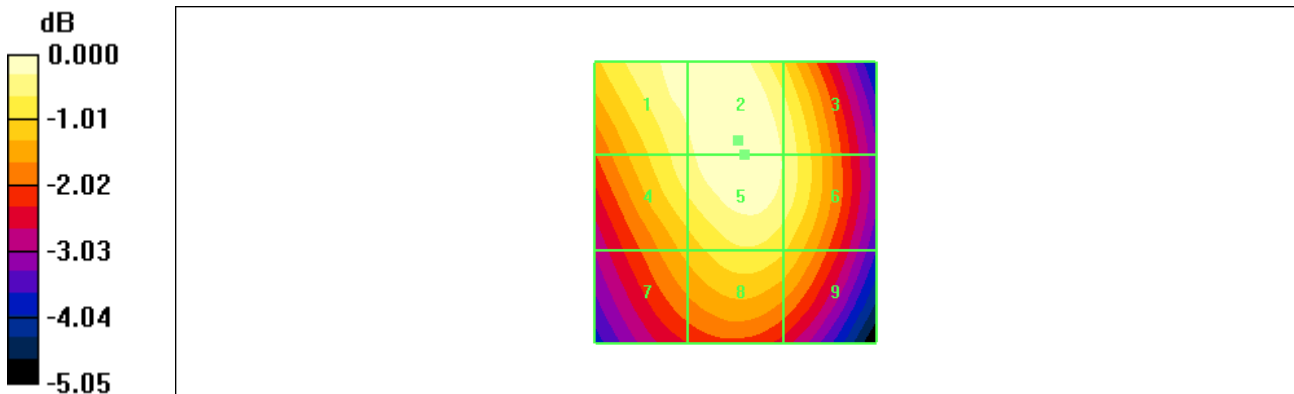
Grid 1	Grid 2	Grid 3
30.9 M4	31.4 M4	30.1 M4
Grid 4	Grid 5	Grid 6
29.9 M4	31.3 M4	30.1 M4
Grid 7	Grid 8	Grid 9
27.3 M4	28.9 M4	28.1 M4

Cursor:

Total = 31.4 V/m

E Category: M4

Location: -0.5, -11, 370.9 mm



0 dB = 31.4V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /4233

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: WCDMA850; Frequency: 846.6 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 - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

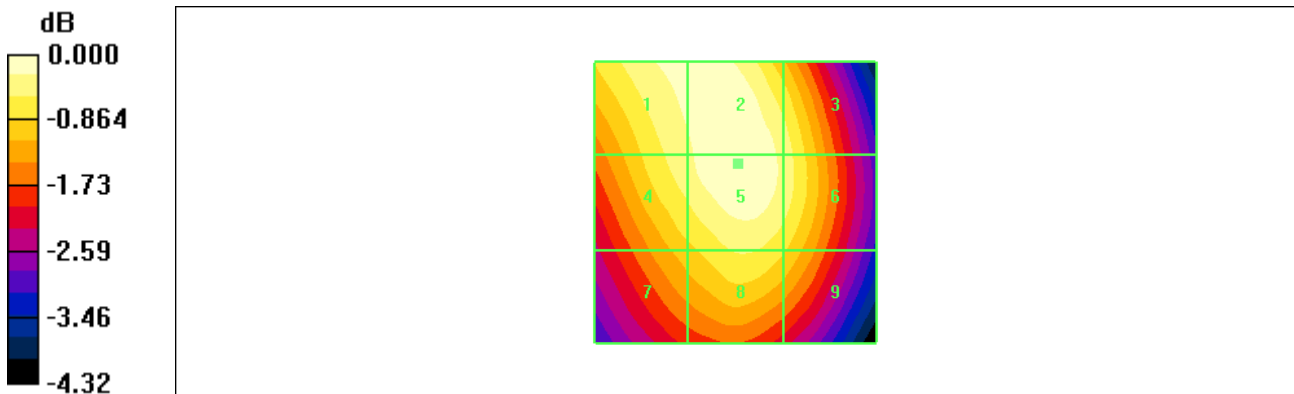
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 26.0 V/m
 Probe Modulation Factor = 0.824
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 40.2 V/m; Power Drift = 0.038 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
25.4 M4	25.9 M4	24.9 M4
Grid 4	Grid 5	Grid 6
25.0 M4	26.0 M4	24.9 M4
Grid 7	Grid 8	Grid 9
23.3 M4	24.4 M4	23.7 M4

Cursor:

Total = 26.0 V/m
 E Category: M4
 Location: -0.5, -7, 370.9 mm



0 dB = 26.0V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /9262

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: WCDMA1900; Frequency: 1852.4 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 - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 26.7 V/m

Probe Modulation Factor = 0.834

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 36.9 V/m; Power Drift = -0.007 dB

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

Peak E-field in V/m

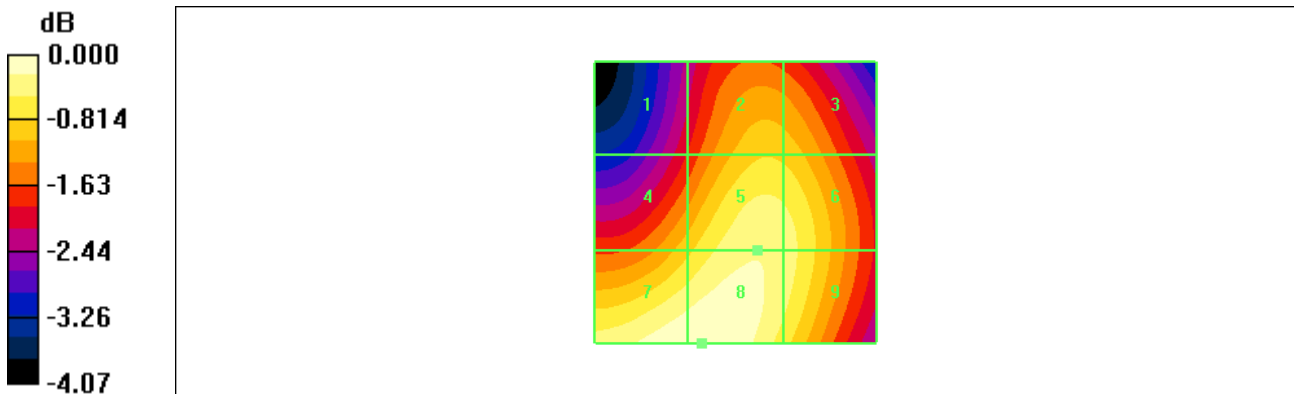
Grid 1	Grid 2	Grid 3
21.5 M4	24.3 M4	24.1 M4
Grid 4	Grid 5	Grid 6
24.1 M4	25.8 M4	25.5 M4
Grid 7	Grid 8	Grid 9
26.6 M4	26.7 M4	25.5 M4

Cursor:

Total = 26.7 V/m

E Category: M4

Location: 6, 25, 370.9 mm



0 dB = 26.7V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /9400

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: WCDMA1900; 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 - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 24.6 V/m

Probe Modulation Factor = 0.834

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 30.9 V/m; Power Drift = 0.080 dB

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

Peak E-field in V/m

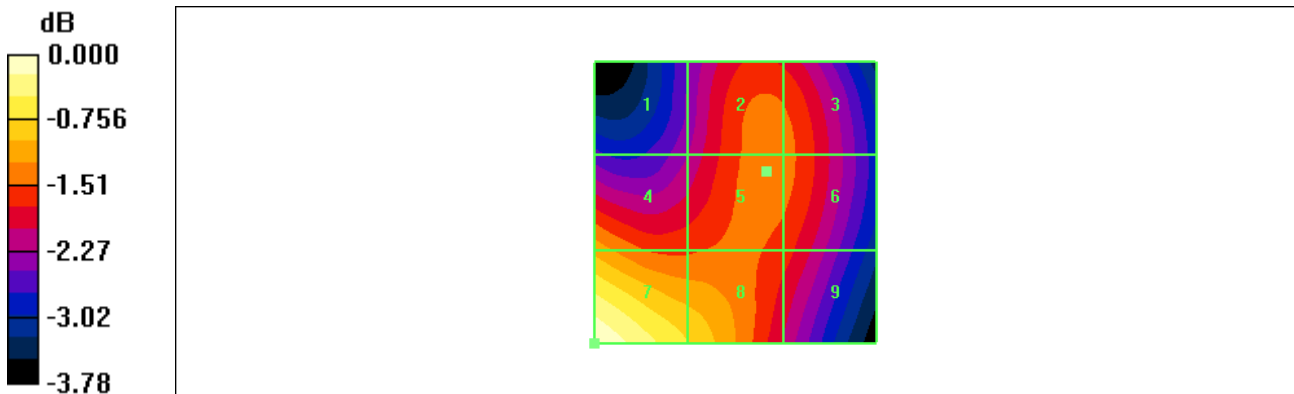
Grid 1	Grid 2	Grid 3
19.0 M4	21.0 M4	20.9 M4
Grid 4	Grid 5	Grid 6
21.7 M4	21.0 M4	20.9 M4
Grid 7	Grid 8	Grid 9
24.6 M4	22.6 M4	20.4 M4

Cursor:

Total = 24.6 V/m

E Category: M4

Location: 25, 25, 370.9 mm



0 dB = 24.6V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /9538

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: WCDMA1900; Frequency: 1907.6 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 - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 24.1 V/m

Probe Modulation Factor = 0.834

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 30.4 V/m; Power Drift = 0.040 dB

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

Peak E-field in V/m

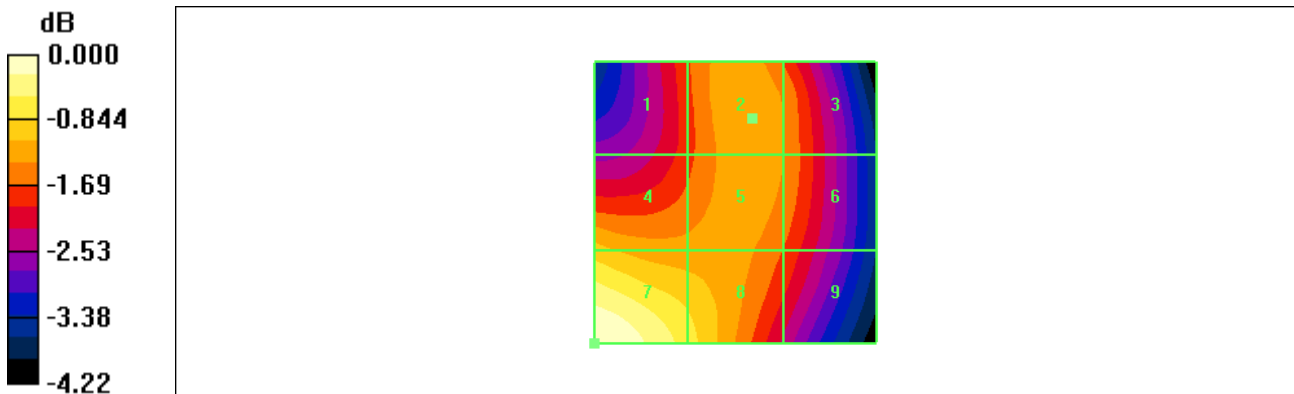
Grid 1 19.8 M4	Grid 2 21.0 M4	Grid 3 20.5 M4
Grid 4 21.5 M4	Grid 5 21.0 M4	Grid 6 20.5 M4
Grid 7 24.1 M4	Grid 8 22.2 M4	Grid 9 19.8 M4

Cursor:

Total = 24.1 V/m

E Category: M4

Location: 25, 25, 370.9 mm



0 dB = 24.1V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /4132

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: WCDMA850; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E 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 - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.070 A/m

Probe Modulation Factor = 0.811

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.044 A/m; Power Drift = -0.059 dB

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

Peak H-field in A/m

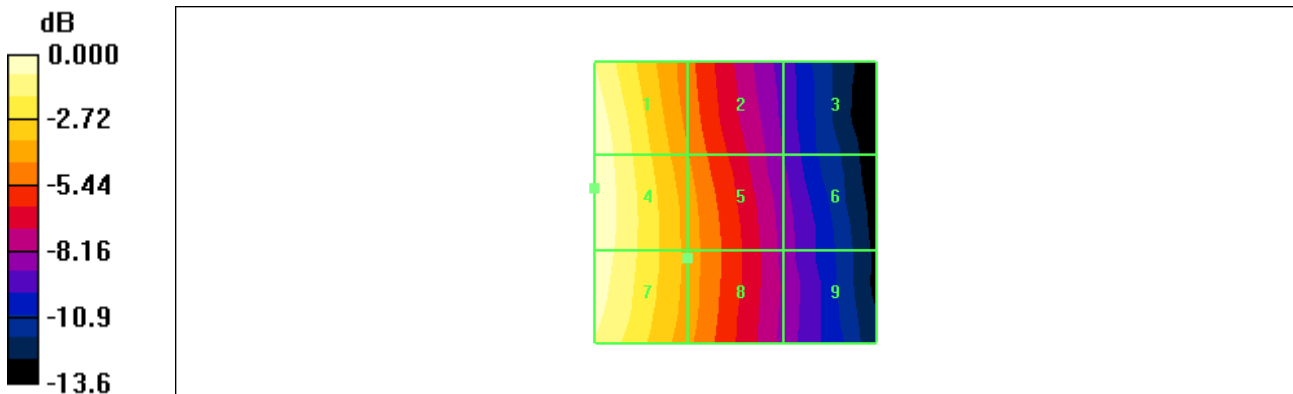
Grid 1 0.069 M4	Grid 2 0.042 M4	Grid 3 0.025 M4
Grid 4 0.070 M4	Grid 5 0.045 M4	Grid 6 0.026 M4
Grid 7 0.068 M4	Grid 8 0.045 M4	Grid 9 0.027 M4

Cursor:

Total = 0.070 A/m

H Category: M4

Location: 25, -2.5, 370.9 mm



0 dB = 0.070A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /4183

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E 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 - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.076 A/m

Probe Modulation Factor = 0.811

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.045 A/m; Power Drift = -0.022 dB

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

Peak H-field in A/m

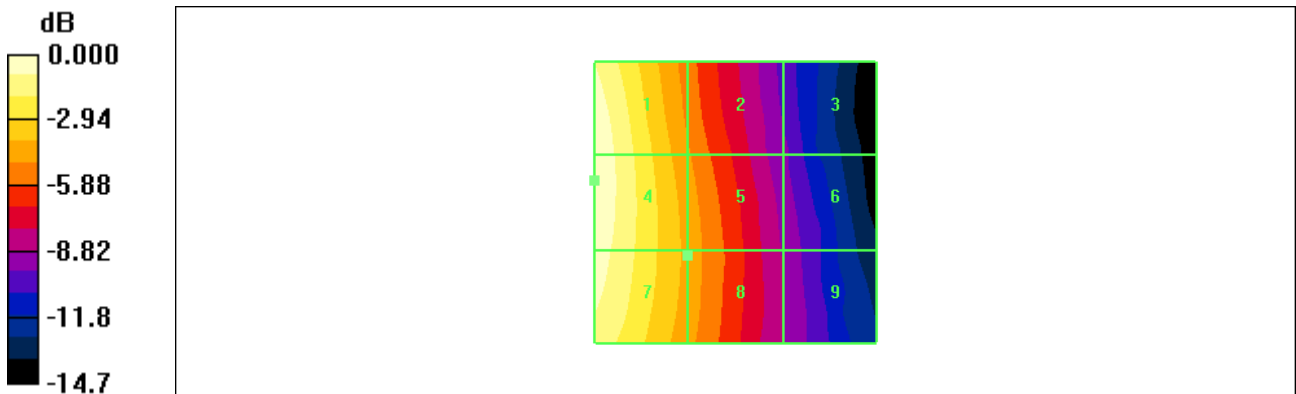
Grid 1 0.075 M4	Grid 2 0.044 M4	Grid 3 0.025 M4
Grid 4 0.076 M4	Grid 5 0.047 M4	Grid 6 0.027 M4
Grid 7 0.073 M4	Grid 8 0.047 M4	Grid 9 0.028 M4

Cursor:

Total = 0.076 A/m

H Category: M4

Location: 25, -4, 370.9 mm



0 dB = 0.076A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /4233

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: WCDMA850; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E 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 - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.065 A/m

Probe Modulation Factor = 0.811

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.037 A/m; Power Drift = -0.071 dB

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

Peak H-field in A/m

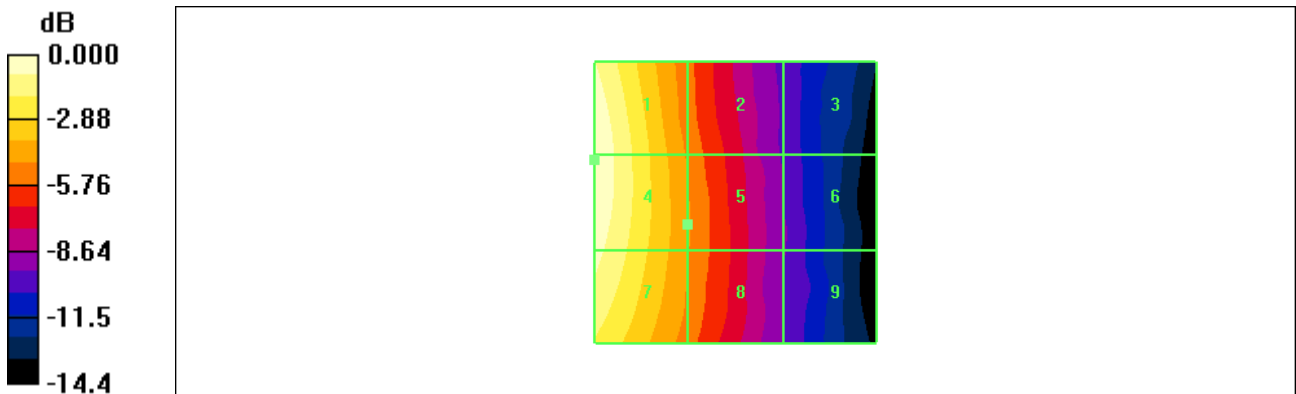
Grid 1 0.065 M4	Grid 2 0.037 M4	Grid 3 0.021 M4
Grid 4 0.065 M4	Grid 5 0.038 M4	Grid 6 0.022 M4
Grid 7 0.060 M4	Grid 8 0.038 M4	Grid 9 0.022 M4

Cursor:

Total = 0.065 A/m

H Category: M4

Location: 25, -7.5, 370.9 mm



0 dB = 0.065A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /9262

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: WCDMA1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E 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 - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.073 A/m

Probe Modulation Factor = 0.809

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.084 A/m; Power Drift = 0.037 dB

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

Peak H-field in A/m

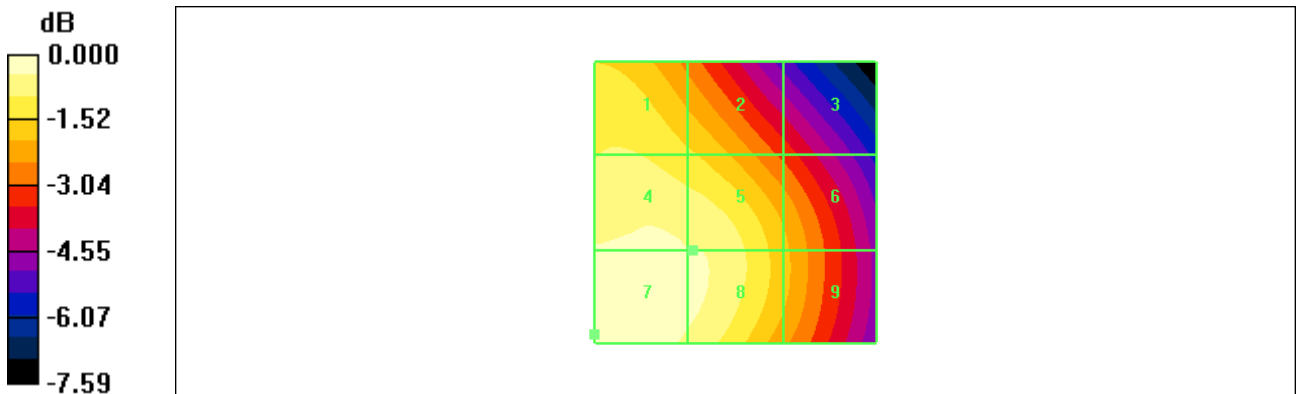
Grid 1 0.065 M4	Grid 2 0.062 M4	Grid 3 0.051 M4
Grid 4 0.070 M4	Grid 5 0.069 M4	Grid 6 0.059 M4
Grid 7 0.073 M4	Grid 8 0.070 M4	Grid 9 0.059 M4

Cursor:

Total = 0.073 A/m

H Category: M4

Location: 25, 23.5, 370.9 mm



0 dB = 0.073A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /9400

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: WCDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E 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 - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.062 A/m

Probe Modulation Factor = 0.809

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.075 A/m; Power Drift = 0.047 dB

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

Peak H-field in A/m

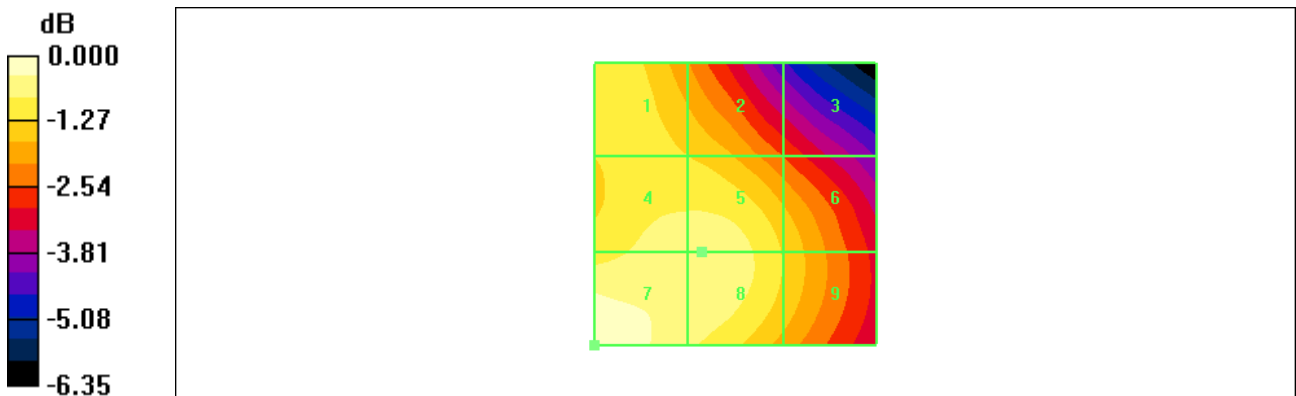
Grid 1 0.056 M4	Grid 2 0.054 M4	Grid 3 0.046 M4
Grid 4 0.058 M4	Grid 5 0.058 M4	Grid 6 0.053 M4
Grid 7 0.062 M4	Grid 8 0.058 M4	Grid 9 0.053 M4

Cursor:

Total = 0.062 A/m

H Category: M4

Location: 25, 25, 370.9 mm



0 dB = 0.062A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /9538

Test Date May 27, 2011

DUT: P5000; Type: Bar; Serial: #1

Communication System: WCDMA1900; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E 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 - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.067 A/m

Probe Modulation Factor = 0.809

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.070 A/m; Power Drift = -0.246 dB

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

Peak H-field in A/m

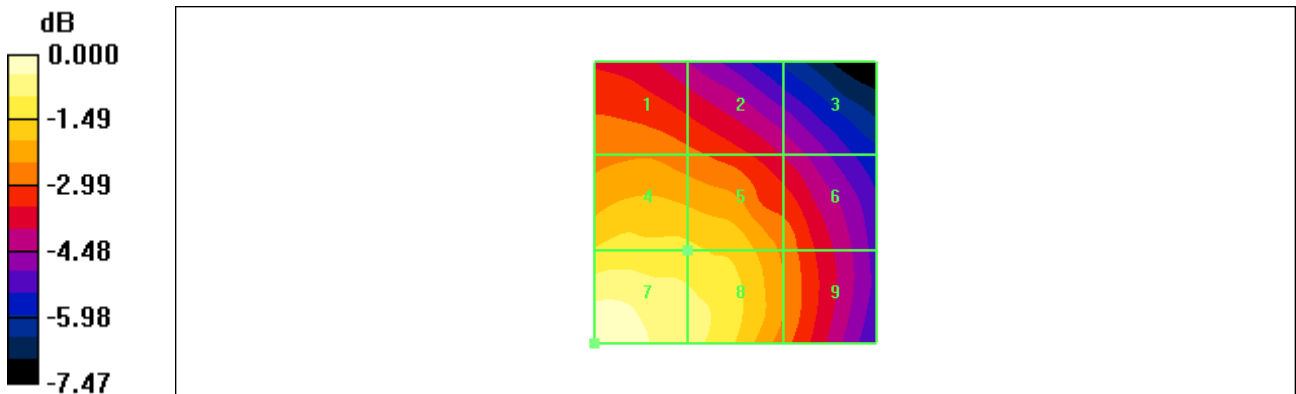
Grid 1 0.050 M4	Grid 2 0.048 M4	Grid 3 0.042 M4
Grid 4 0.058 M4	Grid 5 0.057 M4	Grid 6 0.050 M4
Grid 7 0.067 M4	Grid 8 0.061 M4	Grid 9 0.051 M4

Cursor:

Total = 0.067 A/m

H Category: M4

Location: 25, 25, 370.9 mm



0 dB = 0.067A/m