

## **APPENDIX A. HAC TEST PLOTS**

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Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /1013

Test Date May. 29, 2010

**DUT: A410; Type: Bar; Serial: #1**

Communication System: CDMA 835MHz FCC; Frequency: 824.7 MHz;Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

**DASY4 Configuration:**

- Probe: ER3DV6 - SN2347; ConvF(1, 1, 1); Calibrated: 2009-09-18
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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):**

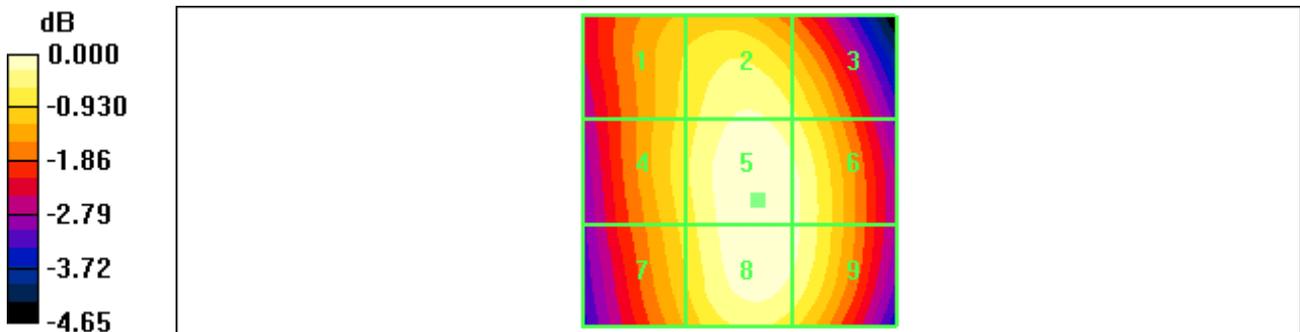
Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 70.4 V/m  
 Probe Modulation Factor = 0.962  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 96.6 V/m; Power Drift = 0.010 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
64.3 M4	68.3 M4	66.2 M4
Grid 4	Grid 5	Grid 6
65.2 M4	70.4 M4	68.8 M4
Grid 7	Grid 8	Grid 9
64.2 M4	70.3 M4	68.8 M4

**Cursor:**

Total = 70.4 V/m  
 E Category: M4  
 Location: -3, 4.5, 369.9 mm



0 dB = 70.4V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /384

Test Date May. 29, 2010

**DUT: A410; Type: Bar; Serial: #1**

Communication System: CDMA 835MHz FCC; Frequency: 836.52 MHz;Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2347; ConvF(1, 1, 1); Calibrated: 2009-09-18
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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):**

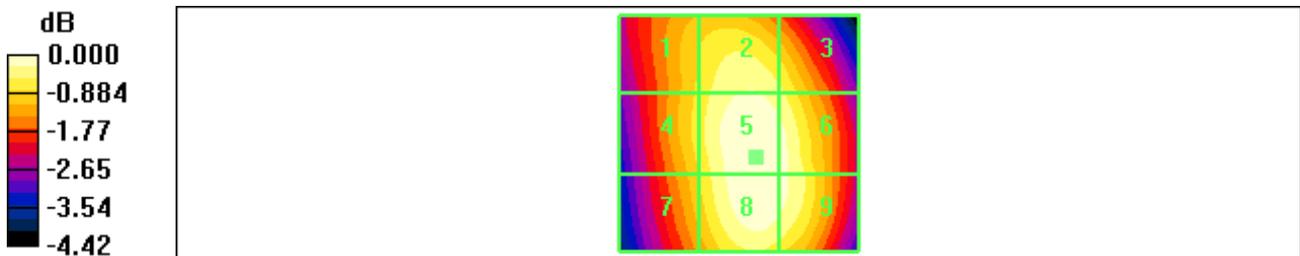
Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 64.6 V/m  
 Probe Modulation Factor = 0.962  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 89.8 V/m; Power Drift = 0.060 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
58.8 M4	62.6 M4	61.0 M4
Grid 4	Grid 5	Grid 6
59.5 M4	64.6 M4	63.5 M4
Grid 7	Grid 8	Grid 9
58.3 M4	64.5 M4	63.5 M4

**Cursor:**

Total = 64.6 V/m  
 E Category: M4  
 Location: -3.5, 5, 369.9 mm



0 dB = 64.6V/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.3 °C /777  
 Test Date May. 29, 2010

**DUT: A410; Type: Bar; Serial: #1**

Communication System: CDMA 835MHz FCC; Frequency: 848.31 MHz;Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2347; ConvF(1, 1, 1); Calibrated: 2009-09-18
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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):**

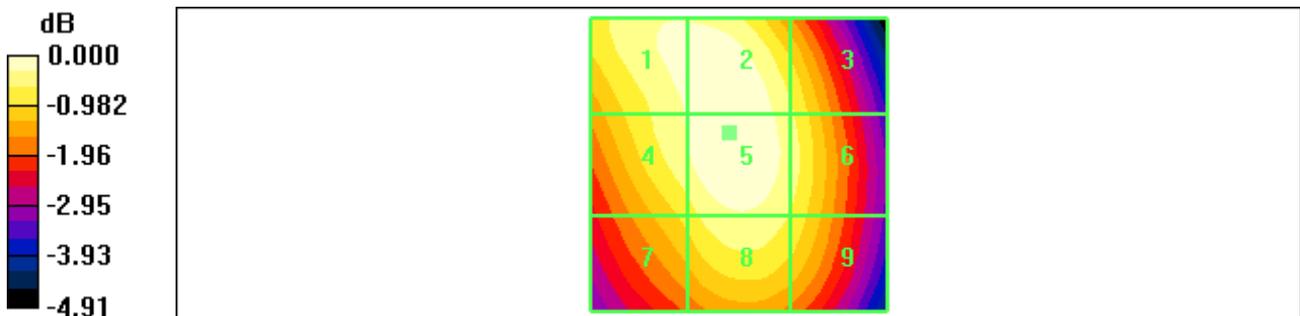
Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 60.2 V/m  
 Probe Modulation Factor = 0.962  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 83.7 V/m; Power Drift = 0.026 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
59.0 M4	60.1 M4	56.4 M4
Grid 4	Grid 5	Grid 6
58.3 M4	60.2 M4	57.1 M4
Grid 7	Grid 8	Grid 9
54.8 M4	57.8 M4	55.8 M4

**Cursor:**

Total = 60.2 V/m  
 E Category: M4  
 Location: 1.5, -5.5, 369.9 mm



0 dB = 60.2V/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.3 °C /25  
 Test Date May. 29, 2010

**DUT: A410; Type: Bar; Serial: #1**

Communication System: PCS 1900MHz FCC; Frequency: 1851.25 MHz;Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

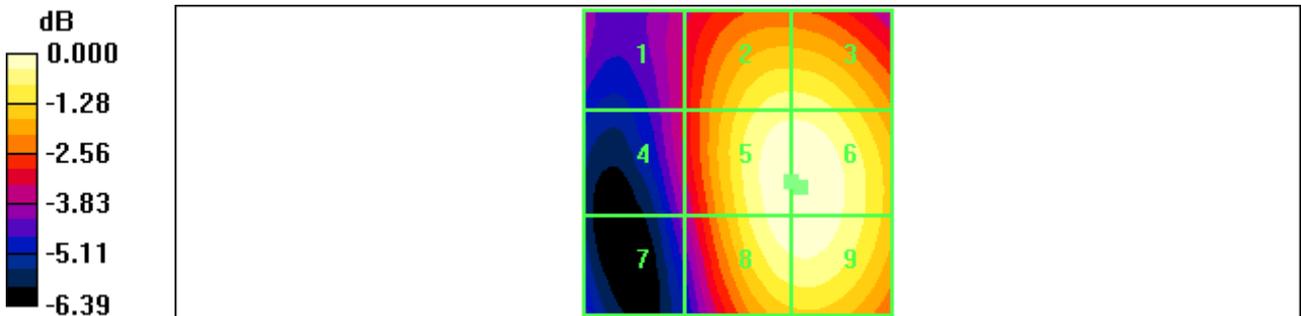
DASY4 Configuration:  
 - Probe: ER3DV6 - SN2347; ConvF(1, 1, 1); Calibrated: 2009-09-18  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**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 = 37.2 V/m  
 Probe Modulation Factor = 0.952  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 46.8 V/m; Power Drift = -0.134 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
25.8 M4	34.9 M4	34.9 M4
Grid 4	Grid 5	Grid 6
25.8 M4	37.1 M4	37.2 M4
Grid 7	Grid 8	Grid 9
23.8 M4	36.8 M4	36.9 M4

**Cursor:**  
 Total = 37.2 V/m  
 E Category: M4  
 Location: -10, 4, 369.9 mm



0 dB = 37.2V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /600

Test Date May. 29, 2010

**DUT: A410; Type: Bar; Serial: #1**

Communication System: PCS 1900MHz FCC; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2347; ConvF(1, 1, 1); Calibrated: 2009-09-18
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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 = 38.8 V/m

Probe Modulation Factor = 0.952

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 49.1 V/m; Power Drift = -0.132 dB

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

Peak E-field in V/m

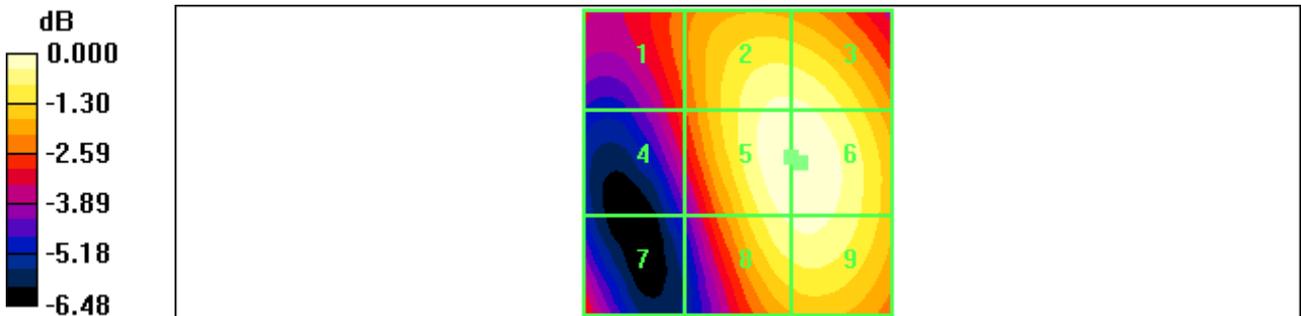
Grid 1	Grid 2	Grid 3
30.0 M4	37.6 M4	37.6 M4
Grid 4	Grid 5	Grid 6
28.6 M4	38.7 M4	38.8 M4
Grid 7	Grid 8	Grid 9
28.1 M4	37.4 M4	37.7 M4

**Cursor:**

Total = 38.8 V/m

E Category: M4

Location: -10, 0, 369.9 mm



0 dB = 38.8V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /1175

Test Date May. 29, 2010

**DUT: A410; Type: Bar; Serial: #1**

Communication System: PCS 1900MHz FCC; Frequency: 1908.75 MHz;Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2347; ConvF(1, 1, 1); Calibrated: 2009-09-18
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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):**

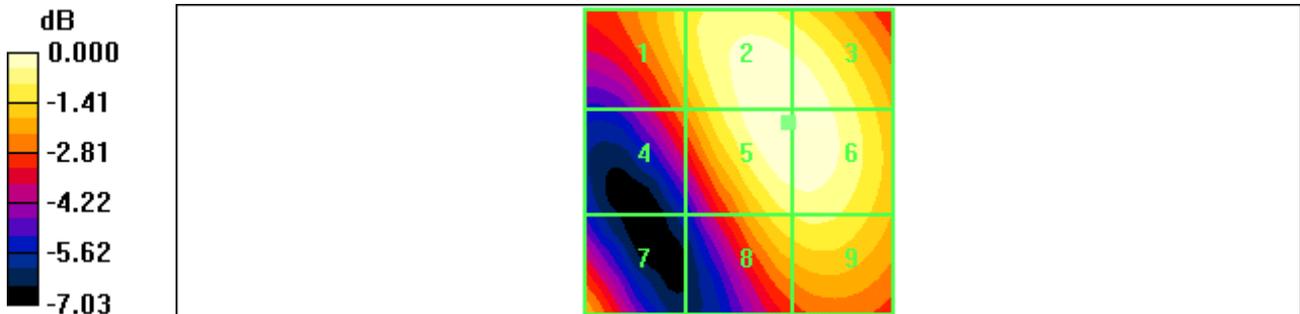
Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 33.2 V/m  
 Probe Modulation Factor = 0.952  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 40.5 V/m; Power Drift = -0.003 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
29.1 M4	33.2 M4	33.1 M4
Grid 4	Grid 5	Grid 6
25.7 M4	33.2 M4	33.2 M4
Grid 7	Grid 8	Grid 9
26.7 M4	29.9 M4	30.4 M4

**Cursor:**

Total = 33.2 V/m  
 E Category: M4  
 Location: -8, -6.5, 369.9 mm



0 dB = 33.2V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /25

Test Date May. 29, 2010

**DUT: A410; Type: Bar; Serial: #1**

Communication System: AWS 1700 MHz FCC; Frequency: 1711.25 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2347; ConvF(1, 1, 1); Calibrated: 2009-09-18
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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 = 44.9 V/m

Probe Modulation Factor = 0.952

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 57.1 V/m; Power Drift = 0.099 dB

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

Peak E-field in V/m

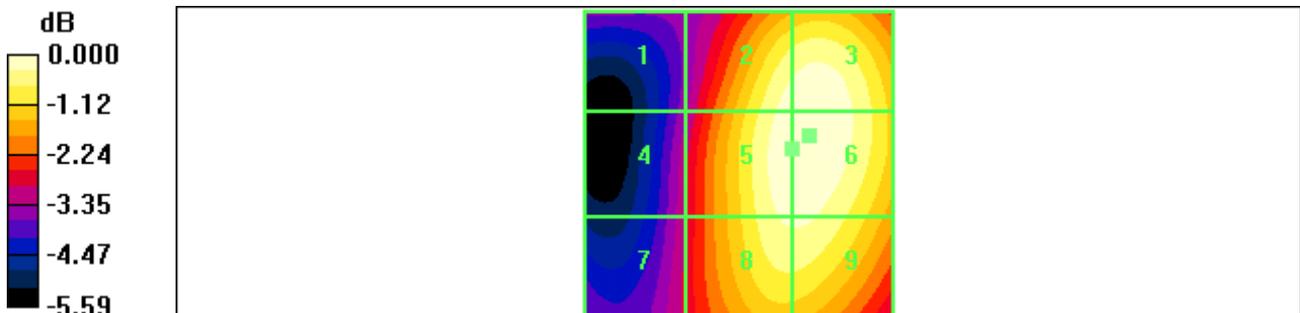
Grid 1	Grid 2	Grid 3
30.5 M4	44.1 M4	44.7 M4
Grid 4	Grid 5	Grid 6
32.0 M4	44.5 M4	44.9 M4
Grid 7	Grid 8	Grid 9
32.4 M4	43.4 M4	43.4 M4

**Cursor:**

Total = 44.9 V/m

E Category: M4

Location: -11.5, -4.5, 369.9 mm



0 dB = 44.9V/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.3 °C /450  
 Test Date May. 29, 2010

**DUT: A410; Type: Bar; Serial: #1**

Communication System: AWS 1700 MHz FCC; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2347; ConvF(1, 1, 1); Calibrated: 2009-09-18
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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):**

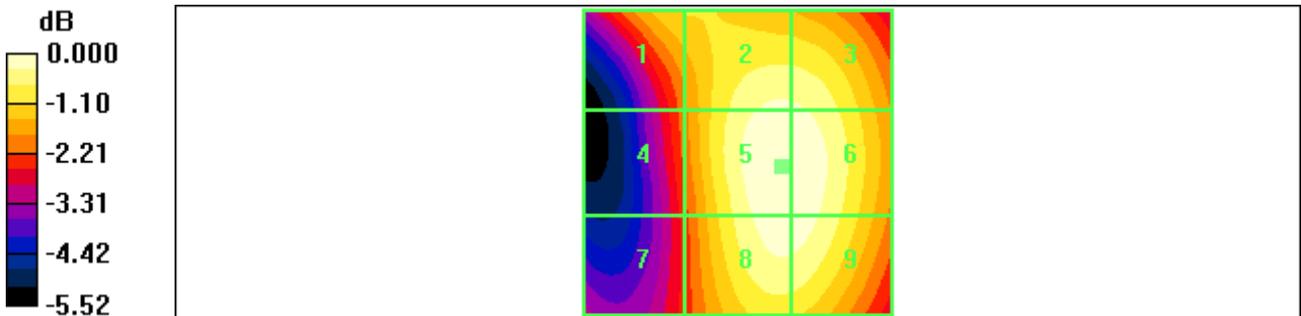
Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 38.6 V/m  
 Probe Modulation Factor = 0.952  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 52.1 V/m; Power Drift = 0.171 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
34.2 M4	37.5 M4	37.4 M4
Grid 4	Grid 5	Grid 6
30.9 M4	38.6 M4	38.5 M4
Grid 7	Grid 8	Grid 9
29.5 M4	38.0 M4	38.0 M4

**Cursor:**

Total = 38.6 V/m  
 E Category: M4  
 Location: -7, 0.5, 369.9 mm



0 dB = 38.6V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /875

Test Date May. 29, 2010

**DUT: A410; Type: Bar; Serial: #1**

Communication System: AWS 1700 MHz FCC; Frequency: 1753.75 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

**DASY4 Configuration:**

- Probe: ER3DV6 - SN2347; ConvF(1, 1, 1); Calibrated: 2009-09-18
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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):**

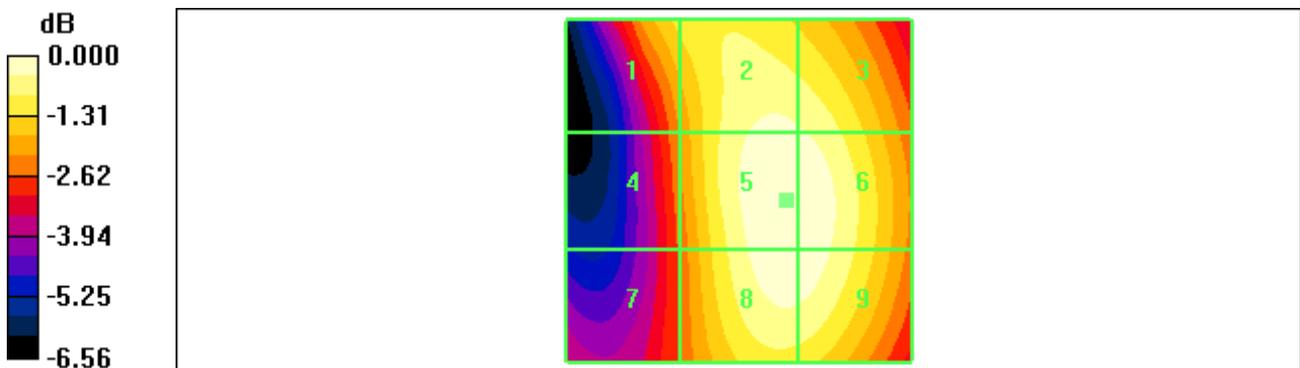
Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 40.8 V/m  
 Probe Modulation Factor = 0.952  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 56.2 V/m; Power Drift = -0.051 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
35.7 M4	39.4 M4	39.1 M4
Grid 4	Grid 5	Grid 6
32.0 M4	40.8 M4	40.7 M4
Grid 7	Grid 8	Grid 9
30.6 M4	40.3 M4	40.3 M4

**Cursor:**

Total = 40.8 V/m  
 E Category: M4  
 Location: -7, 1.5, 369.9 mm



0 dB = 40.8V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /1013

Test Date May. 30, 2010

**DUT: A410; Type: Bar; Serial: #1**

Communication System: CDMA 835MHz FCC; Frequency: 824.7 MHz;Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: H3DV6 - SN6164; ; Calibrated: 2009-09-21
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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 = 0.141 A/m

Probe Modulation Factor = 0.849

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.088 A/m; Power Drift = 0.008 dB

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

Peak H-field in A/m

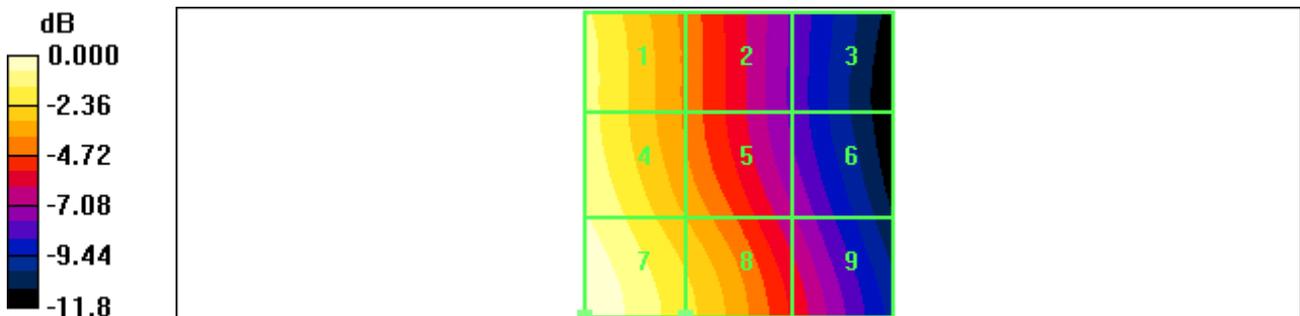
Grid 1	Grid 2	Grid 3
0.123 M4	0.088 M4	0.057 M4
Grid 4	Grid 5	Grid 6
0.130 M4	0.098 M4	0.064 M4
Grid 7	Grid 8	Grid 9
0.141 M4	0.111 M4	0.074 M4

**Cursor:**

Total = 0.141 A/m

H Category: M4

Location: 25, 25, 369.4 mm



0 dB = 0.141A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /384

Test Date May. 30, 2010

**DUT: A410; Type: Bar; Serial: #1**

Communication System: CDMA 835MHz FCC; Frequency: 836.52 MHz;Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

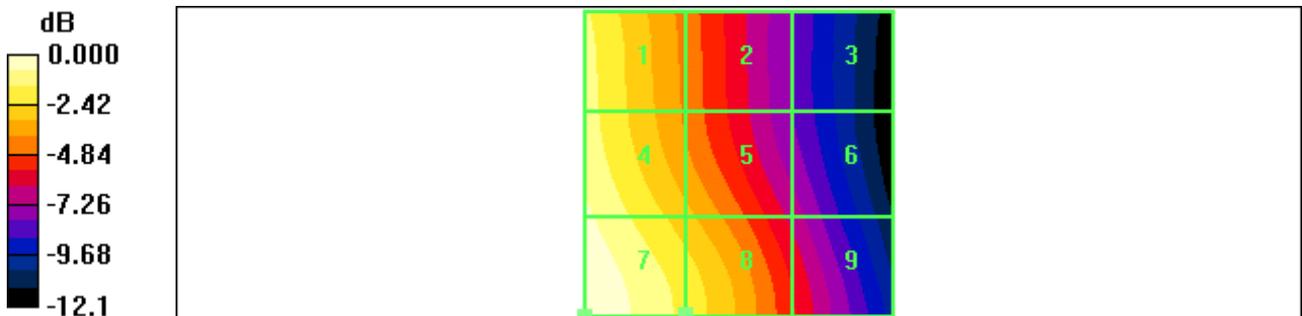
- DASY4 Configuration:
- Probe: H3DV6 - SN6164; ; Calibrated: 2009-09-21
  - Sensor-Surface: (Fix Surface)
  - Electronics: DAE4 Sn869; Calibrated: 2009-09-18
  - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**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 = 0.135 A/m  
 Probe Modulation Factor = 0.849  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.087 A/m; Power Drift = 0.005 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.117 M4	0.083 M4	0.054 M4
Grid 4	Grid 5	Grid 6
0.126 M4	0.096 M4	0.062 M4
Grid 7	Grid 8	Grid 9
0.135 M4	0.109 M4	0.072 M4

**Cursor:**  
 Total = 0.135 A/m  
 H Category: M4  
 Location: 25, 25, 369.4 mm



0 dB = 0.135A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /777

Test Date May. 30, 2010

**DUT: A410; Type: Bar; Serial: #1**

Communication System: CDMA 835MHz FCC; Frequency: 848.31 MHz;Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: H3DV6 - SN6164; ; Calibrated: 2009-09-21
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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 = 0.110 A/m

Probe Modulation Factor = 0.849

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.087 A/m; Power Drift = 0.015 dB

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

Peak H-field in A/m

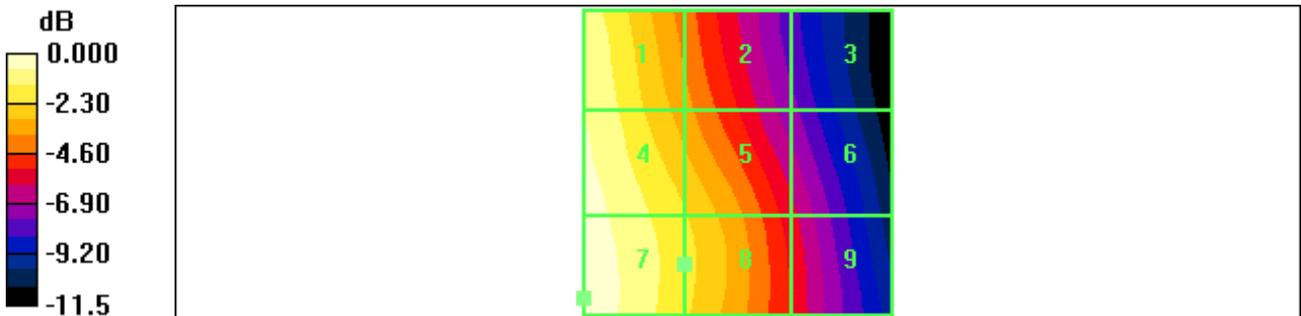
Grid 1	Grid 2	Grid 3
0.101 M4	0.073 M4	0.047 M4
Grid 4	Grid 5	Grid 6
0.107 M4	0.085 M4	0.056 M4
Grid 7	Grid 8	Grid 9
0.110 M4	0.087 M4	0.059 M4

**Cursor:**

Total = 0.110 A/m

H Category: M4

Location: 25, 22, 369.4 mm



Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /25

Test Date May. 30, 2010

**DUT: A410; Type: Bar; Serial: #1**

Communication System: PCS 1900MHz FCC; Frequency: 1851.25 MHz;Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: H3DV6 - SN6164; ; Calibrated: 2009-09-21
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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 = 0.093 A/m

Probe Modulation Factor = 0.781

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.092 A/m; Power Drift = 0.088 dB

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

Peak H-field in A/m

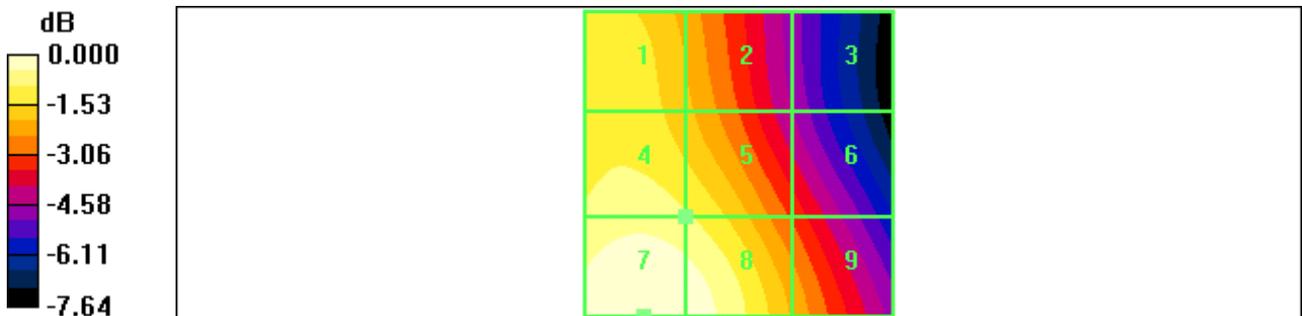
Grid 1	Grid 2	Grid 3
0.082 M4	0.075 M4	0.055 M4
Grid 4	Grid 5	Grid 6
0.086 M4	0.083 M4	0.065 M4
Grid 7	Grid 8	Grid 9
0.093 M4	0.091 M4	0.073 M4

**Cursor:**

Total = 0.093 A/m

H Category: M4

Location: 15.5, 25, 369.4 mm



0 dB = 0.093A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /600

Test Date May. 30, 2010

**DUT: A410; Type: Bar; Serial: #1**

Communication System: PCS 1900MHz FCC; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: H3DV6 - SN6164; ; Calibrated: 2009-09-21
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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 = 0.106 A/m

Probe Modulation Factor = 0.781

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.106 A/m; Power Drift = 0.022 dB

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

Peak H-field in A/m

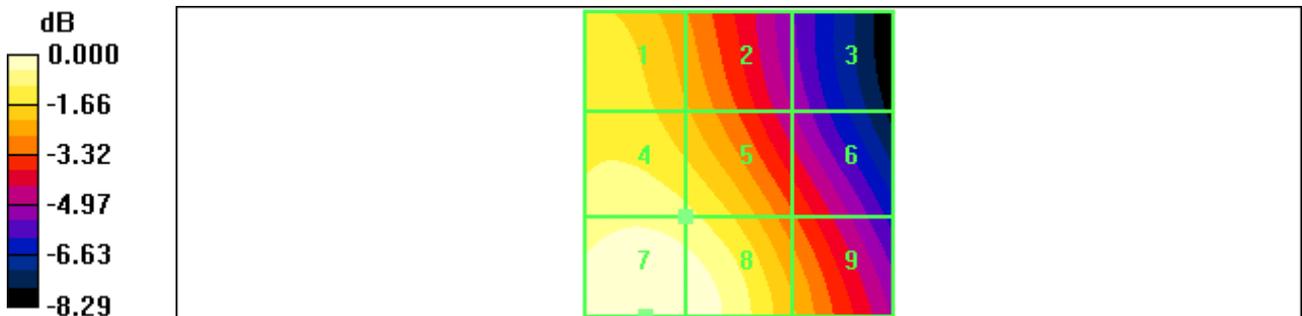
Grid 1 0.092 M4	Grid 2 0.083 M4	Grid 3 0.060 M4
Grid 4 0.098 M4	Grid 5 0.095 M4	Grid 6 0.073 M4
Grid 7 0.106 M4	Grid 8 0.104 M4	Grid 9 0.083 M4

**Cursor:**

Total = 0.106 A/m

H Category: M4

Location: 15, 25, 369.4 mm



0 dB = 0.106A/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.5 °C /1175  
 Test Date May. 30, 2010

**DUT: A410; Type: Bar; Serial: #1**

Communication System: PCS 1900MHz FCC; Frequency: 1908.75 MHz;Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

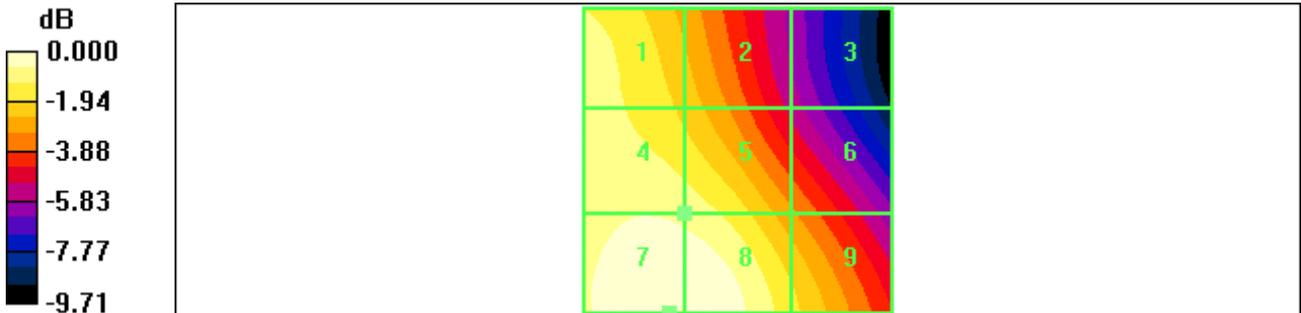
DASY4 Configuration:  
 - Probe: H3DV6 - SN6164; ; Calibrated: 2009-09-21  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**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 = 0.089 A/m  
 Probe Modulation Factor = 0.781  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.089 A/m; Power Drift = -0.059 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.078 M4	0.070 M4	0.048 M4
Grid 4	Grid 5	Grid 6
0.082 M4	0.081 M4	0.062 M4
Grid 7	Grid 8	Grid 9
0.089 M4	0.089 M4	0.073 M4

**Cursor:**  
 Total = 0.089 A/m  
 H Category: M4  
 Location: 11, 25, 369.4 mm



0 dB = 0.089A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /25

Test Date May. 30, 2010

**DUT: A410; Type: Bar; Serial: #1**

Communication System: AWS 1700 MHz FCC; Frequency: 1711.25 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: H3DV6 - SN6164; ; Calibrated: 2009-09-21
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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 = 0.118 A/m

Probe Modulation Factor = 0.781

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.102 A/m; Power Drift = -0.015 dB

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

Peak H-field in A/m

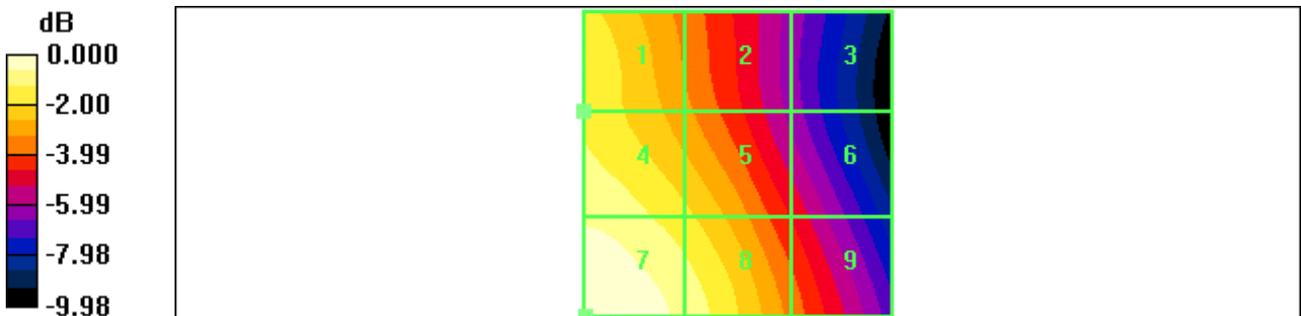
Grid 1	Grid 2	Grid 3
0.101 M4	0.082 M4	0.058 M4
Grid 4	Grid 5	Grid 6
0.108 M4	0.096 M4	0.069 M4
Grid 7	Grid 8	Grid 9
0.118 M4	0.107 M4	0.079 M4

**Cursor:**

Total = 0.118 A/m

H Category: M4

Location: 24.5, 25, 369.4 mm



0 dB = 0.118A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /450

Test Date May. 30, 2010

**DUT: A410; Type: Bar; Serial: #1**

Communication System: AWS 1700 MHz FCC; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: H3DV6 - SN6164; ; Calibrated: 2009-09-21
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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 = 0.105 A/m

Probe Modulation Factor = 0.781

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.089 A/m; Power Drift = 0.148 dB

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

Peak H-field in A/m

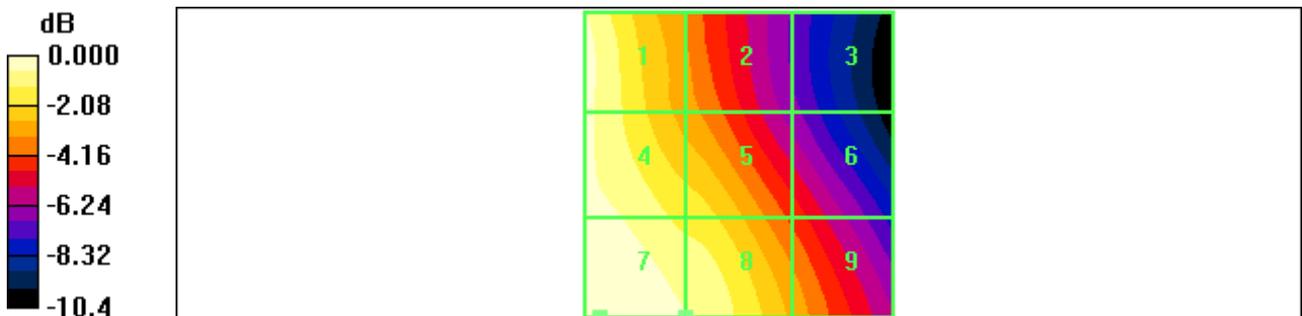
Grid 1	Grid 2	Grid 3
0.101 M4	0.073 M4	0.049 M4
Grid 4	Grid 5	Grid 6
0.099 M4	0.087 M4	0.064 M4
Grid 7	Grid 8	Grid 9
0.105 M4	0.097 M4	0.075 M4

**Cursor:**

Total = 0.105 A/m

H Category: M4

Location: 22.5, 25, 369.4 mm



0 dB = 0.105A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /875

Test Date May. 30, 2010

**DUT: A410; Type: Bar; Serial: #1**

Communication System: AWS 1700 MHz FCC; Frequency: 1753.75 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

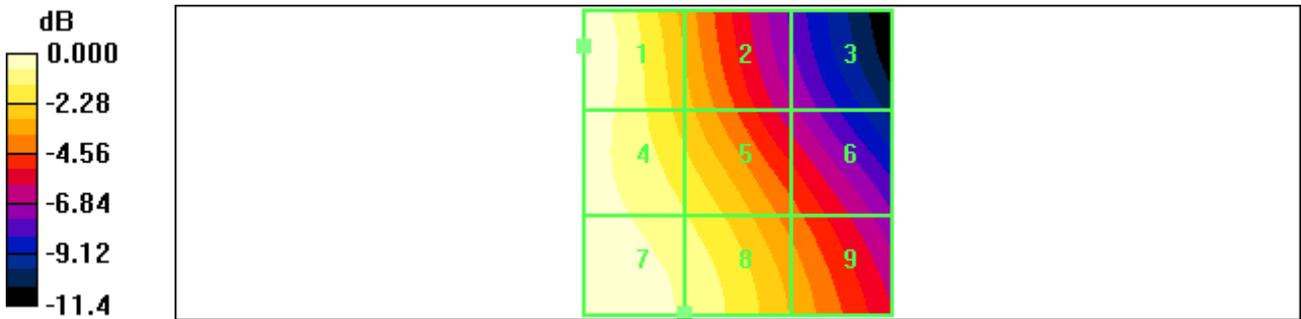
- DASY4 Configuration:
- Probe: H3DV6 - SN6164; ; Calibrated: 2009-09-21
  - Sensor-Surface: (Fix Surface)
  - Electronics: DAE4 Sn869; Calibrated: 2009-09-18
  - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**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 = 0.113 A/m  
 Probe Modulation Factor = 0.781  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.099 A/m; Power Drift = -0.048 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
<b>0.113 M4</b>	<b>0.083 M4</b>	<b>0.053 M4</b>
Grid 4	<b>Grid 5</b>	Grid 6
<b>0.109 M4</b>	<b>0.095 M4</b>	<b>0.070 M4</b>
Grid 7	Grid 8	Grid 9
<b>0.108 M4</b>	<b>0.102 M4</b>	<b>0.079 M4</b>

**Cursor:**  
 Total = 0.113 A/m  
 H Category: M4  
 Location: 25, -19, 369.4 mm



0 dB = 0.113A/m