

## **ATTACHMENT A – HAC TEST PLOTS**

Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.  
Mode : CDMA835 / Antenna : In / Channel : 1013  
Date Tested : March 31, 2006

DUT: PN-218; Type: Folder; Serial: #1  
Program Name: HAC E Device

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

DASY4 Configuration:

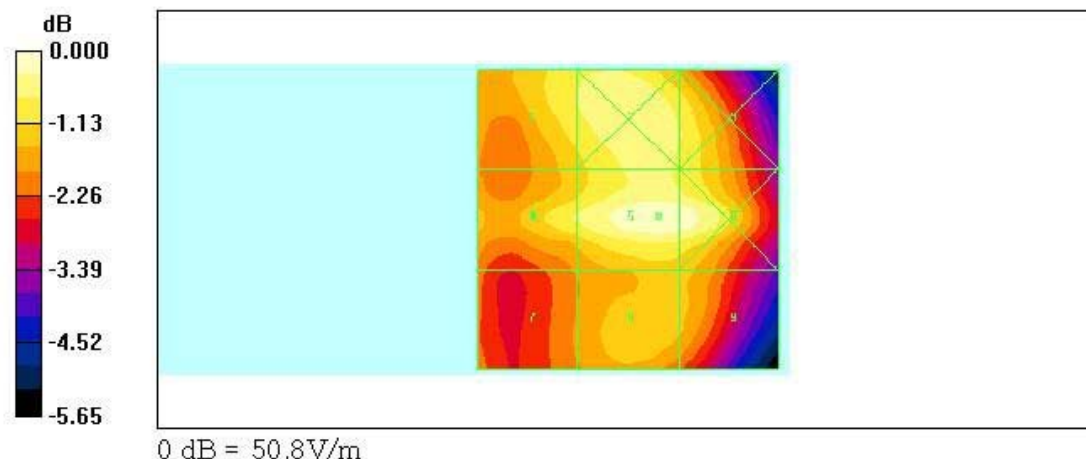
- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2006-03-23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 50.8 V/m  
Probe Modulation Factor = 1.00  
Reference Value = 45.5 V/m; Power Drift = 0.121 dB  
**Hearing Aid Near-Field Category: M4 (A WF 0 dB)**

Peak E-field in V/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 46.6   | 48.4   | 46.7   |
| Grid 4 | Grid 5 | Grid 6 |
| 46.8   | 50.8   | 50.1   |
| Grid 7 | Grid 8 | Grid 9 |
| 41.2   | 44.3   | 43.7   |



Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.  
Mode : CDMA835 / Antenna : out / Channel : 1013  
Date Tested : March 31, 2006

**DUT: PN-218; Type: Folder; Serial: #1**  
**Program Name: HAC E Device**

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

DASY4 Configuration:

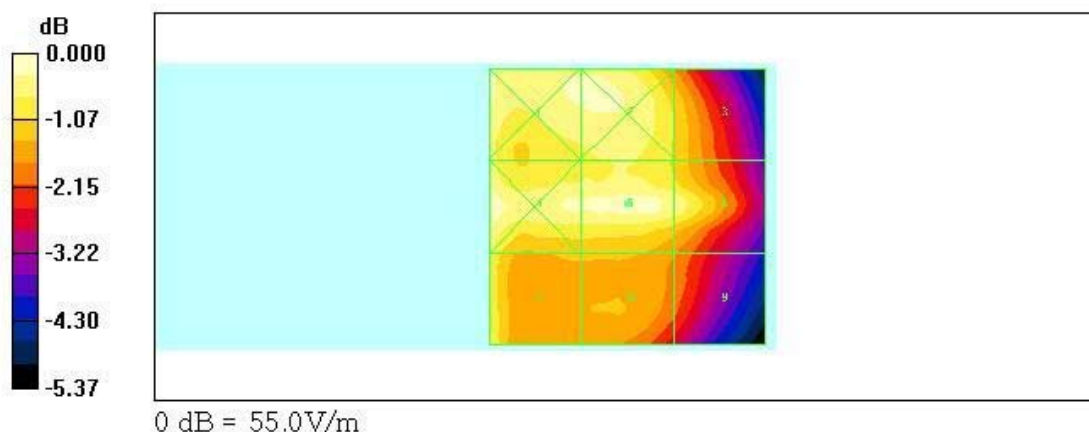
- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2006-03-23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 53.8 V/m  
Probe Modulation Factor = 1.00  
Reference Value = 50.2 V/m; Power Drift = 0.029 dB  
**Hearing Aid Near-Field Category: M4 (A WF 0 dB)**

Peak E-field in V/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 53.7   | 53.3   | 48.6   |
| Grid 4 | Grid 5 | Grid 6 |
| 55.0   | 53.8   | 52.0   |
| Grid 7 | Grid 8 | Grid 9 |
| 51.6   | 47.1   | 44.9   |



Test Laboratory: HCT

Company : PANTECH&amp;CURITEL COMMUNICATIONS, INC.

Mode : CDMA835 / Antenna : in / Channel : 384

Date Tested : March 31, 2006

**DUT: PN-218; Type: Folder; Serial: #1****Program Name: HAC E Device**

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

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2006-03-23

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn446; Calibrated: 2006-03-17

- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**

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

Maximum value of peak Total field = 48.1 V/m

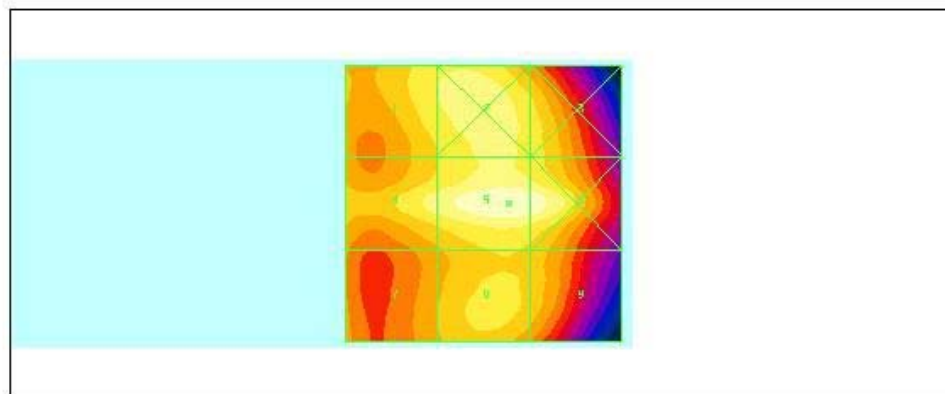
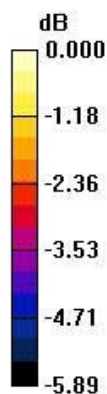
Probe Modulation Factor = 1.00

Reference Value = 44.5 V/m; Power Drift = -0.058 dB

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

Peak E-field in V/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 43.9   | 45.4   | 43.2   |
| Grid 4 | Grid 5 | Grid 6 |
| 44.8   | 48.1   | 47.3   |
| Grid 7 | Grid 8 | Grid 9 |
| 40.1   | 42.8   | 41.6   |



0 dB = 48.1 V/m

Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.  
Mode : CDMA835 / Antenna : out / Channel : 384  
Date Tested : March 31, 2006

**DUT: PN-218; Type: Folder; Serial: #1**  
**Program Name: HAC E Device**

Communication System: CDMA 835MHz FCC, Frequency: 836.52 MHz;Duty Cycle: 1:1  
Medium parameters used:  $\sigma = 0 \text{ mho/m}$ ,  $\epsilon_r = 1$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2006-03-23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**

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

Maximum value of peak Total field = 47.7 V/m

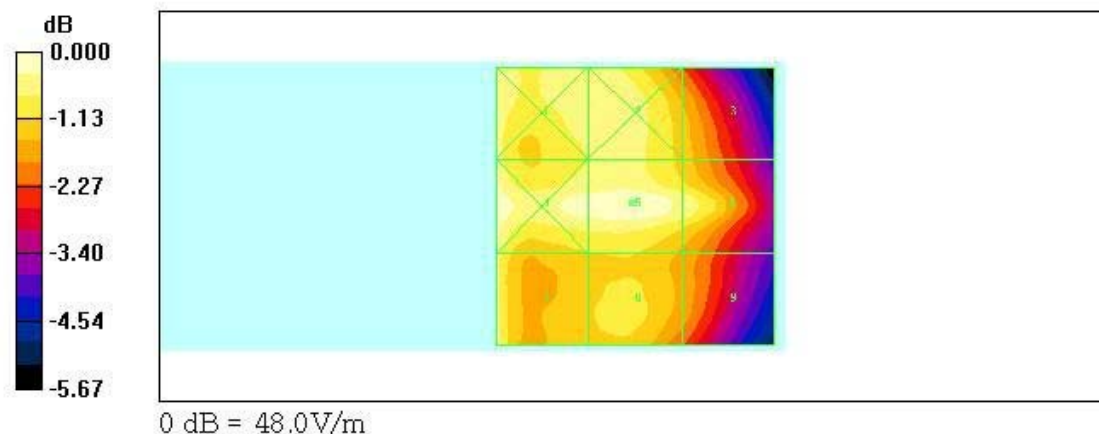
Probe Modulation Factor = 1.00

Reference Value = 44.6 V/m; Power Drift = 0.031 dB

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

Peak E-field in V/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 46.2   | 46.0   | 41.4   |
| Grid 4 | Grid 5 | Grid 6 |
| 48.0   | 47.7   | 45.5   |
| Grid 7 | Grid 8 | Grid 9 |
| 45.4   | 42.8   | 40.0   |





Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.  
Mode : CDMA835 / Antenna : in / Channel : 777  
Date Tested : March 31, 2006

**DUT: PN-218; Type: Folder; Serial: #1**  
**Program Name: HAC E Device**

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

DASY4 Configuration:

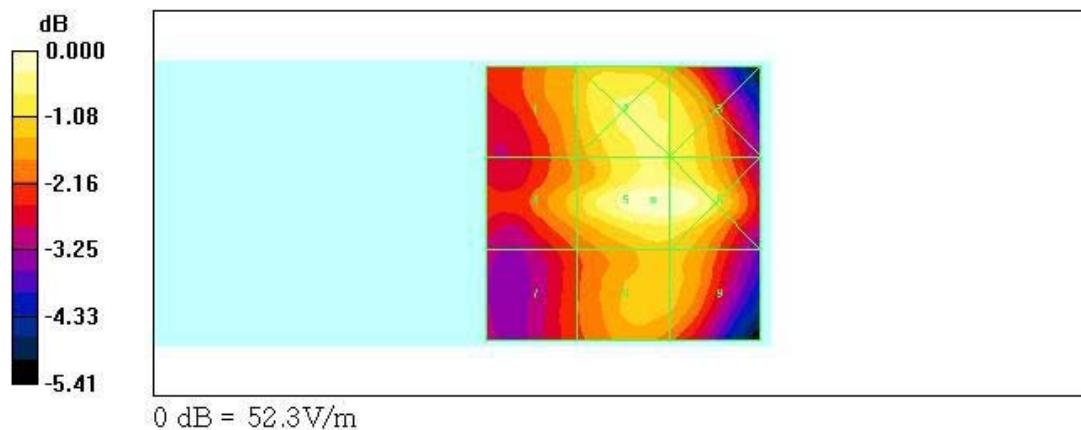
- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2006-03-23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 52.3 V/m  
Probe Modulation Factor = 1.00  
Reference Value = 46.3 V/m; Power Drift = -0.187 dB  
**Hearing Aid Near-Field Category: M4 (A WF 0 dB)**

Peak E-field in V/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 44.8   | 48.7   | 48.1   |
| Grid 4 | Grid 5 | Grid 6 |
| 45.4   | 52.3   | 52.3   |
| Grid 7 | Grid 8 | Grid 9 |
| 40.9   | 45.5   | 45.4   |



Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.  
Mode : CDMA835 / Antenna : out / Channel : 1013  
Date Tested : March 31, 2006

**DUT: PN-218; Type: Folder; Serial: #1**  
**Program Name: HAC E Device**

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

DASY4 Configuration:

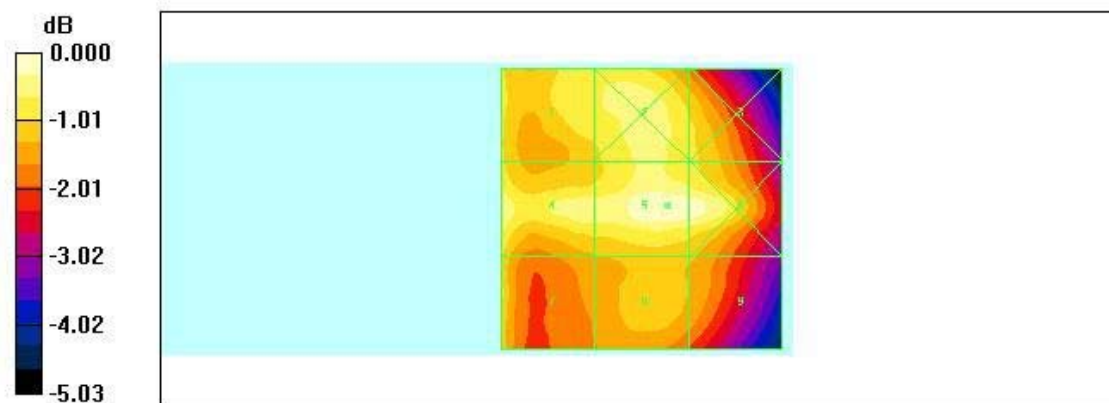
- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2006-03-23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 44.6 V/m  
Probe Modulation Factor = 1.00  
Reference Value = 40.0 V/m; Power Drift = 0.112 dB  
**Hearing Aid Near-Field Category: M4 (A WF 0 dB)**

Peak E-field in V/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 40.9   | 42.2   | 40.3   |
| Grid 4 | Grid 5 | Grid 6 |
| 43.4   | 44.6   | 44.0   |
| Grid 7 | Grid 8 | Grid 9 |
| 40.7   | 39.0   | 38.5   |



0 dB = 44.6V/m

Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.  
Mode : PCS1900 / Antenna : in / Channel : 25  
Date Tested : March 31, 2006

DUT: PN-218; Type: Folder; Serial: #1  
Program Name: HAC E Device

Communication System: PCS1900; 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

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2006-03-23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**

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

Maximum value of peak Total field = 21.2 V/m

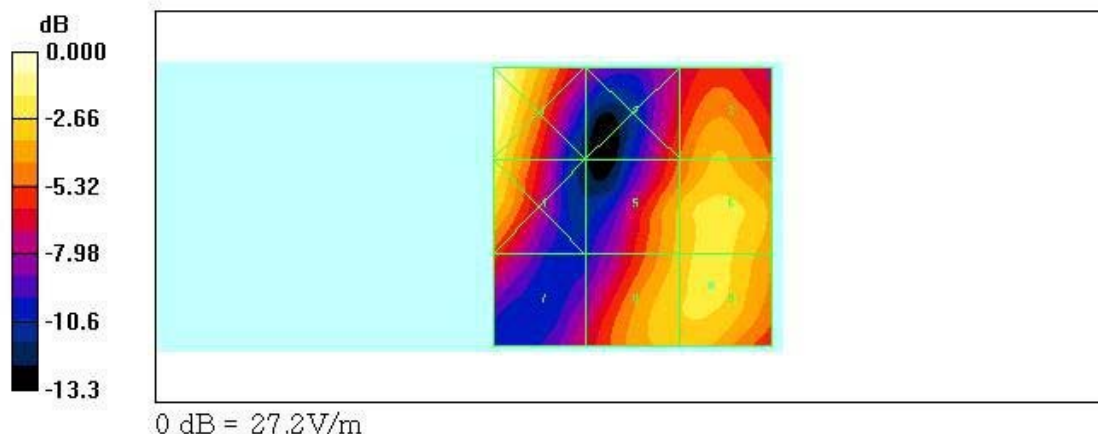
Probe Modulation Factor = 0.990

Reference Value = 10.0 V/m; Power Drift = -0.148 dB

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

Peak E-field in V/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 27.2   | 15.0   | 18.4   |
| Grid 4 | Grid 5 | Grid 6 |
| 22.3   | 18.9   | 21.0   |
| Grid 7 | Grid 8 | Grid 9 |
| 14.4   | 20.0   | 21.2   |





Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.  
Mode : PCS1900 / Antenna : out / Channel : 25  
Date Tested : March 31, 2006

DUT: PN-218; Type: Folder; Serial: #1  
Program Name: HAC E Device

Communication System: PCS1900; 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

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2006-03-23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**

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

Maximum value of peak Total field = 37.7 V/m

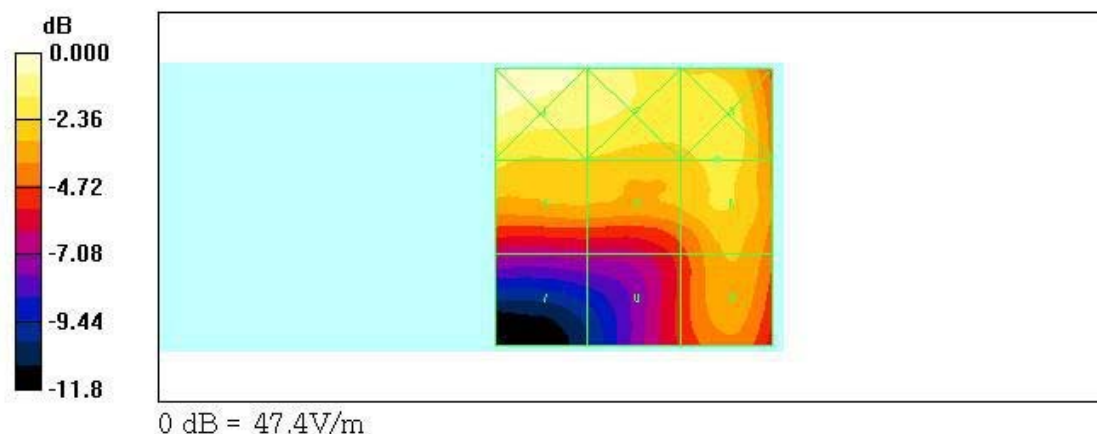
Probe Modulation Factor = 0.990

Reference Value = 29.1 V/m; Power Drift = 0.002 dB

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

Peak E-field in V/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 47.4   | 42.8   | 38.8   |
| Grid 4 | Grid 5 | Grid 6 |
| 37.7   | 36.0   | 37.7   |
| Grid 7 | Grid 8 | Grid 9 |
| 22.0   | 26.8   | 33.3   |



Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.  
Mode : PCS1900 / Antenna : in / Channel : 600  
Date Tested : March 31, 2006

**DUT: PN-218; Type: Folder; Serial: #1**  
**Program Name: HAC E Device**

Communication System: PCS1900; 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

DASY4 Configuration:

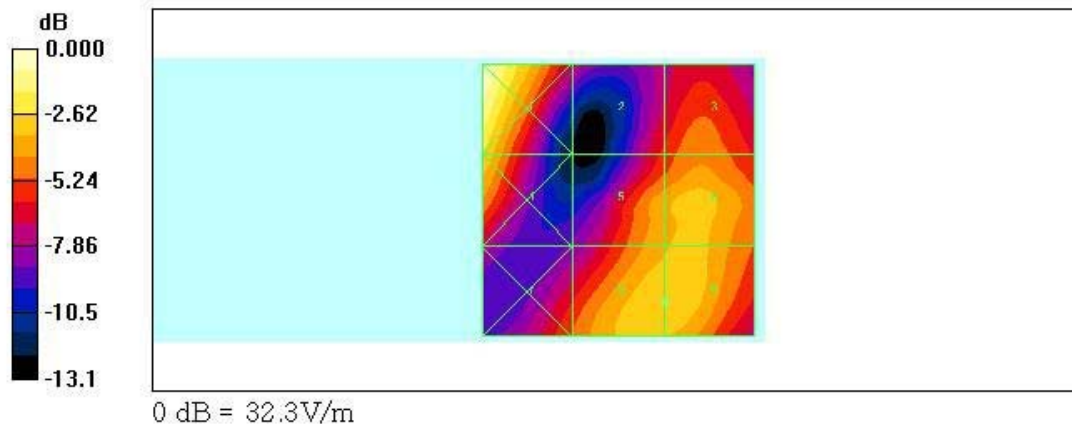
- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2006-03-23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 23.4 V/m  
Probe Modulation Factor = 0.990  
Reference Value = 13.3 V/m; Power Drift = -0.165 dB  
**Hearing Aid Near-Field Category: M4 (A WF 0 dB)**

Peak E-field in V/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 32.3   | 16.6   | 19.4   |
| Grid 4 | Grid 5 | Grid 6 |
| 24.2   | 21.4   | 22.9   |
| Grid 7 | Grid 8 | Grid 9 |
| 17.9   | 23.4   | 23.4   |



Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.  
Mode : PCS1900 / Antenna : out / Channel : 600  
Date Tested : March 31, 2006

DUT: PN-218; Type: Folder; Serial: #1  
Program Name: HAC E Device

Communication System: PCS1900; 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

DASY4 Configuration:

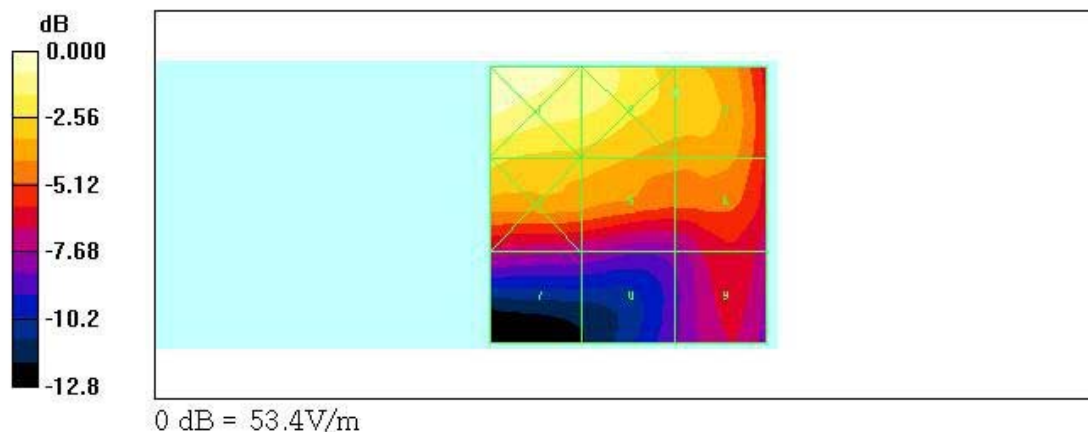
- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2006-03-23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 38.6 V/m  
Probe Modulation Factor = 0.990  
Reference Value = 29.2 V/m; Power Drift = 0.066 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 53.4   | 47.3   | 38.6   |
| Grid 4 | Grid 5 | Grid 6 |
| 41.7   | 38.5   | 34.5   |
| Grid 7 | Grid 8 | Grid 9 |
| 23.4   | 22.2   | 26.5   |



Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.  
Mode : PCS1900 / Antenna : in / Channel : 1175  
Date Tested : March 31, 2006

DUT: PN-218; Type: Folder; Serial: #1  
Program Name: HAC E Device

Communication System: PCS1900; 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

DASY4 Configuration:

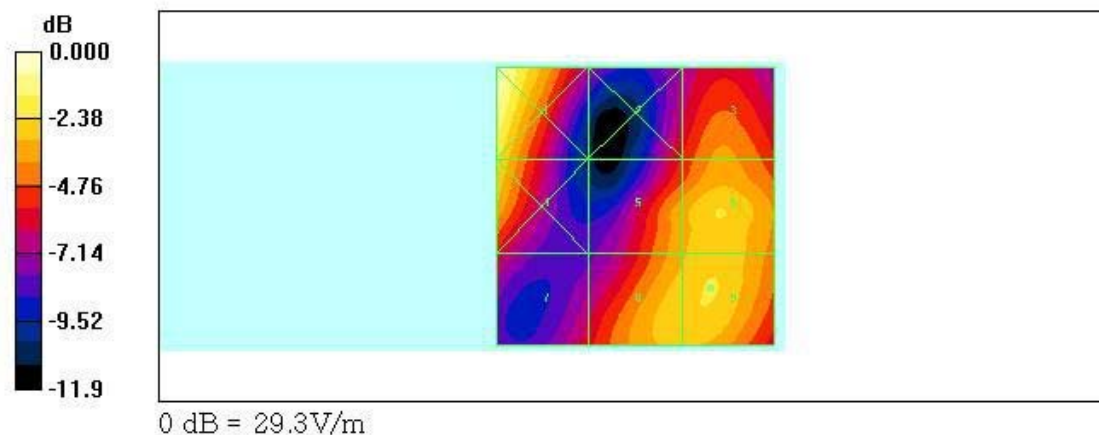
- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2006-03-23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 22.4 V/m  
Probe Modulation Factor = 0.990  
Reference Value = 12.8 V/m; Power Drift = -0.189 dB  
**Hearing Aid Near-Field Category: M4 (A WF 0 dB)**

Peak E-field in V/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 29.3   | 15.8   | 19.1   |
| Grid 4 | Grid 5 | Grid 6 |
| 23.3   | 20.1   | 22.4   |
| Grid 7 | Grid 8 | Grid 9 |
| 15.3   | 21.9   | 22.4   |





Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.  
Mode : PCS1900 / Antenna : out / Channel : 1175  
Date Tested : March 31, 2006

**DUT: PN-218; Type: Folder; Serial: #1**  
**Program Name: HAC E Device**

Communication System: PCS1900; 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

DASY4 Configuration:

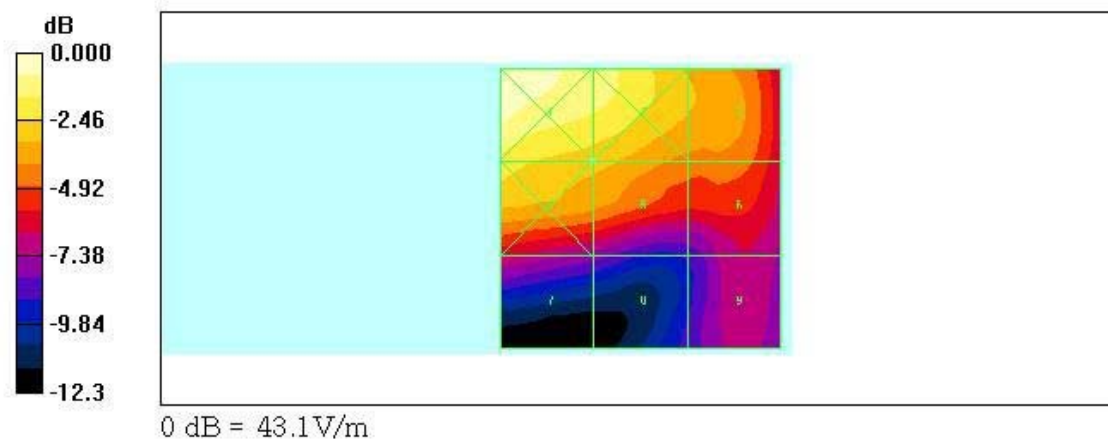
- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2006-03-23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 30.9 V/m  
Probe Modulation Factor = 0.990  
Reference Value = 22.8 V/m; Power Drift = -0.177 dB  
**Hearing Aid Near-Field Category: M4 (A WF 0 dB)**

Peak E-field in V/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 43.1   | 37.6   | 30.0   |
| Grid 4 | Grid 5 | Grid 6 |
| 35.0   | 30.9   | 26.2   |
| Grid 7 | Grid 8 | Grid 9 |
| 20.7   | 17.6   | 20.2   |





Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.  
Mode : CDMA835 / Antenna : in / Channel : 1013  
Date Tested : March 31, 2006

**DUT: PN-218; Type: Folder; Serial: #1**  
**Program Name: HAC H Device**

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

DASY4 Configuration:

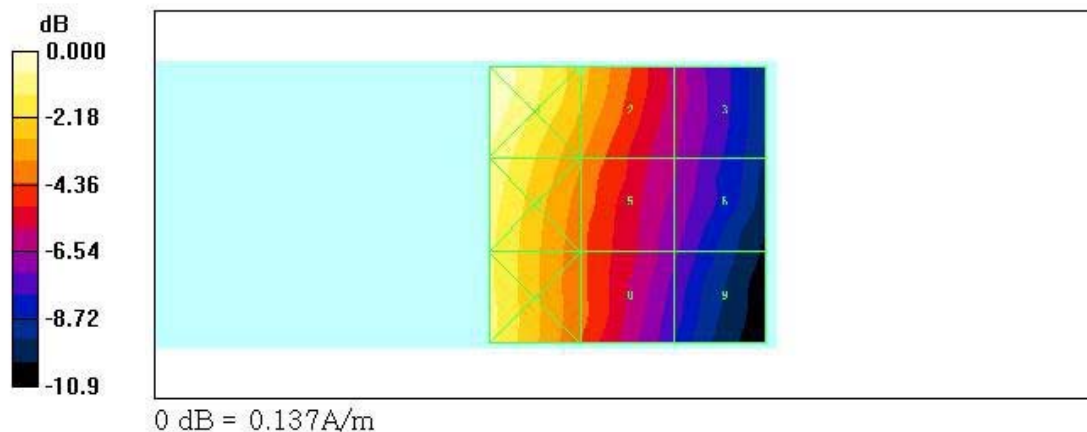
- Probe: H3DV6 - SN6101; ; Calibrated: 2005-07-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 0.101 A/m  
Probe Modulation Factor = 1.01  
Reference Value = 0.072 A/m; Power Drift = 0.050 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 0.137  | 0.101  | 0.069  |
| Grid 4 | Grid 5 | Grid 6 |
| 0.125  | 0.091  | 0.065  |
| Grid 7 | Grid 8 | Grid 9 |
| 0.120  | 0.085  | 0.060  |



Test Laboratory: HCT

Company : PANTECH&amp;CURITEL COMMUNICATIONS, INC.

Mode : CDMA835 / Antenna : out / Channel : 1013

Date Tested : March 31, 2006

DUT: PN-218; Type: Folder; Serial: #1

Program Name: HAC H Device

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

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2005-07-20

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn446; Calibrated: 2006-03-17

- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**

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

Maximum value of peak Total field = 0.131 A/m

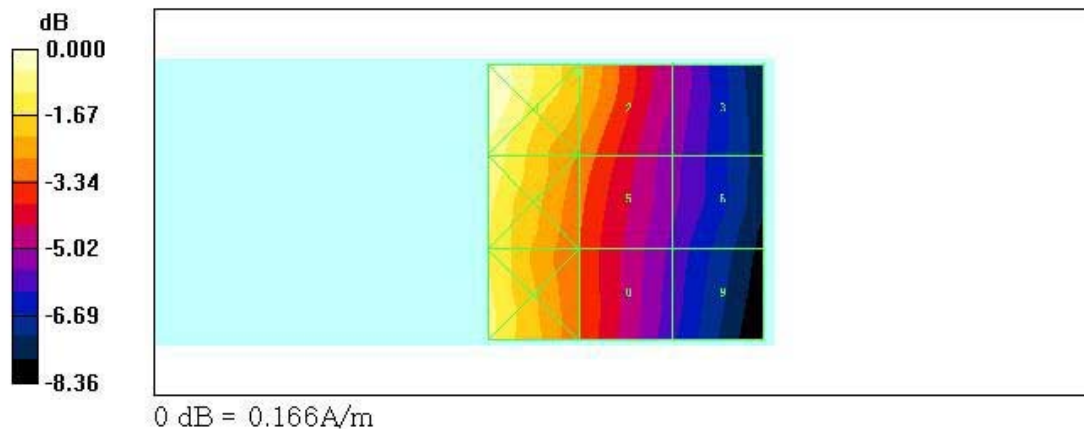
Probe Modulation Factor = 1.01

Reference Value = 0.095 A/m; Power Drift = 0.158 dB

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

Peak H-field in A/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 0.166  | 0.131  | 0.093  |
| Grid 4 | Grid 5 | Grid 6 |
| 0.154  | 0.120  | 0.090  |
| Grid 7 | Grid 8 | Grid 9 |
| 0.151  | 0.114  | 0.086  |



Test Laboratory: HCT

Company : PANTECH&amp;CURITEL COMMUNICATIONS, INC.

Mode : CDMA835 / Antenna : in / Channel : 384

Date Tested : March 31, 2006

DUT: PN-218; Type: Folder; Serial: #1

Program Name: HAC H Device

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

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2005-07-20

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn446; Calibrated: 2006-03-17

- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**

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

Maximum value of peak Total field = 0.099 A/m

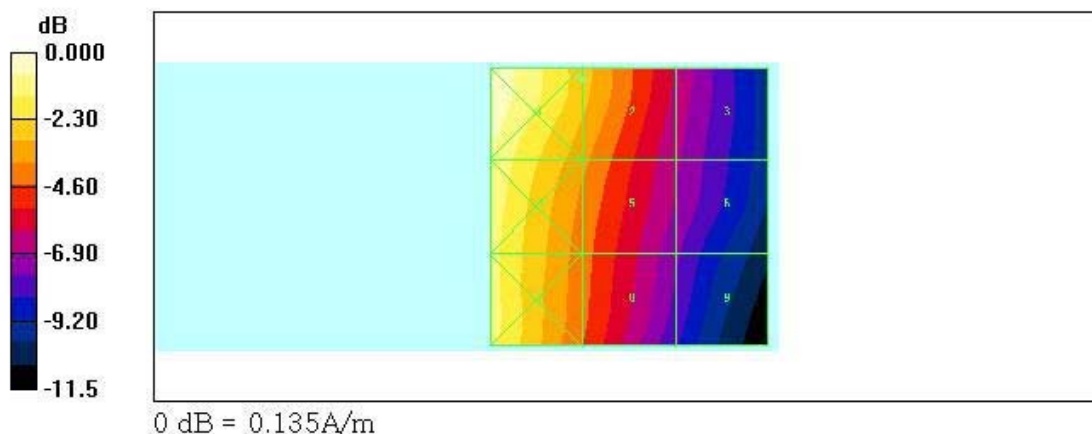
Probe Modulation Factor = 1.01

Reference Value = 0.070 A/m; Power Drift = -0.009 dB

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

Peak H-field in A/m

| Grid 1 | Grid 2 | Grid 3 |
|--------|--------|--------|
| 0.135  | 0.099  | 0.065  |
| Grid 4 | Grid 5 | Grid 6 |
| 0.124  | 0.090  | 0.062  |
| Grid 7 | Grid 8 | Grid 9 |
| 0.119  | 0.083  | 0.057  |



Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.  
Mode : CDMA835 / Antenna : out / Channel : 384  
Date Tested : March 31, 2006

**DUT: PN-218; Type: Folder; Serial: #1**  
**Program Name: HAC H Device**

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

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2005-07-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**

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

Maximum value of peak Total field = 0.115 A/m

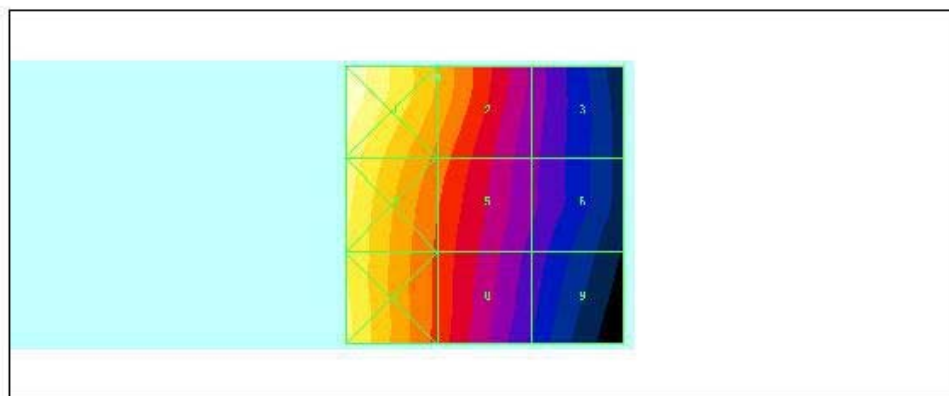
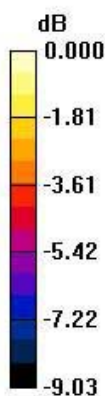
Probe Modulation Factor = 1.01

Reference Value = 0.086 A/m; Power Drift = -0.043 dB

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

Peak H-field in A/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 0.153  | 0.115  | 0.081  |
| Grid 4 | Grid 5 | Grid 6 |
| 0.140  | 0.106  | 0.078  |
| Grid 7 | Grid 8 | Grid 9 |
| 0.136  | 0.100  | 0.075  |



0 dB = 0.153A/m

Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.  
Mode : CDMA835 / Antenna : in / Channel : 777  
Date Tested : March 31, 2006

DUT: PN-218; Type: Folder; Serial: #1

Program Name: HAC H Device

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

Medium parameters used:  $\sigma = 0 \text{ mho/m}$ ,  $\epsilon_r = 1$ ;  $\rho = 1 \text{ kg/m}^3$ 

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2005-07-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**

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

Maximum value of peak Total field = 0.113 A/m

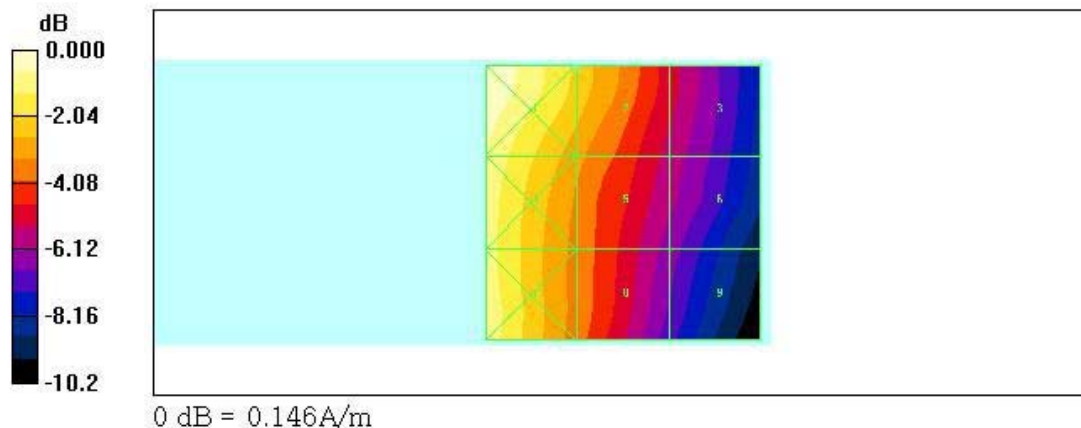
Probe Modulation Factor = 1.01

Reference Value = 0.082 A/m; Power Drift = -0.019 dB

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

Peak H-field in A/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 0.146  | 0.113  | 0.081  |
| Grid 4 | Grid 5 | Grid 6 |
| 0.134  | 0.102  | 0.076  |
| Grid 7 | Grid 8 | Grid 9 |
| 0.132  | 0.096  | 0.070  |





Test Laboratory: HCT

Company : PANTECH&amp;CURITEL COMMUNICATIONS, INC.

Mode : CDMA835 / Antenna : out / Channel : 777

Date Tested : March 31, 2006

**DUT: PN-218; Type: Folder; Serial: #1****Program Name: HAC H Device**

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

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2005-07-20

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn446; Calibrated: 2006-03-17

- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**

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

Maximum value of peak Total field = 0.123 A/m

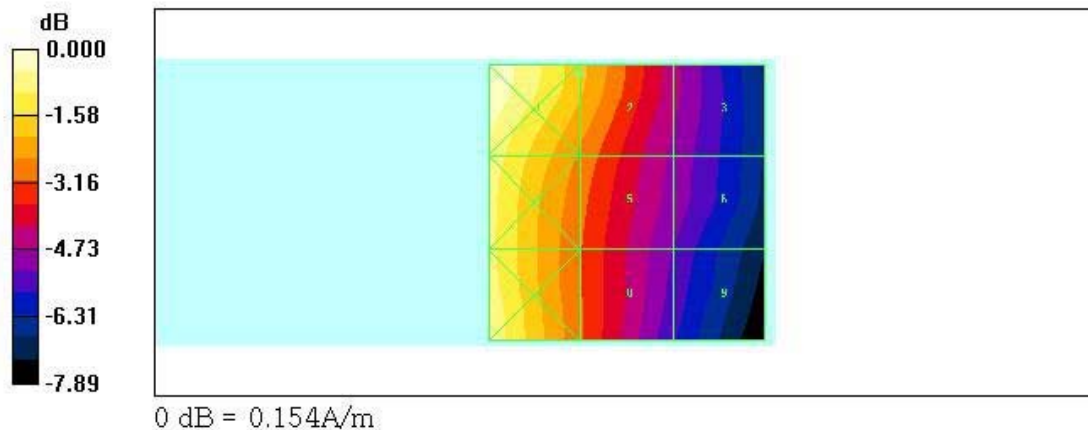
Probe Modulation Factor = 1.01

Reference Value = 0.094 A/m; Power Drift = -0.012 dB

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

Peak H-field in A/m

|              |              |              |
|--------------|--------------|--------------|
| Grid 1       | Grid 2       | Grid 3       |
| <b>0.154</b> | <b>0.123</b> | <b>0.092</b> |
| Grid 4       | Grid 5       | Grid 6       |
| <b>0.143</b> | <b>0.113</b> | <b>0.088</b> |
| Grid 7       | Grid 8       | Grid 9       |
| <b>0.144</b> | <b>0.108</b> | <b>0.084</b> |



Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC..  
Mode : PCS1900 / Antenna : in / Channel : 25  
Date Tested : March 31, 2006

DUT: PN-218; Type: Folder; Serial: #1  
Program Name: HAC H Device

Communication System: PCS1900; 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

DASY4 Configuration:

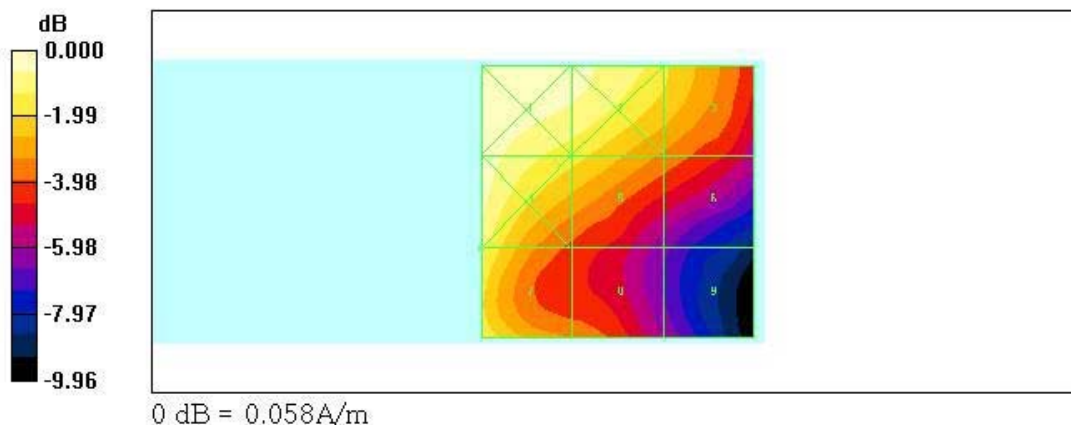
- Probe: H3DV6 - SN6101; ; Calibrated: 2005-07-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 0.051 A/m  
Probe Modulation Factor = 0.980  
Reference Value = 0.038 A/m; Power Drift = -0.052 dB  
**Hearing Aid Near-Field Category: M4 (A WF 0 dB)**

Peak H-field in A/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 0.058  | 0.055  | 0.047  |
| Grid 4 | Grid 5 | Grid 6 |
| 0.057  | 0.048  | 0.039  |
| Grid 7 | Grid 8 | Grid 9 |
| 0.051  | 0.040  | 0.029  |



Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.  
Mode : PCS1900 / Antenna : out / Channel : 25  
Date Tested : March 31, 2006

DUT: PN-218; Type: Folder; Serial: #1  
Program Name: HAC H Device

Communication System: PCS1900; 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

DASY4 Configuration:

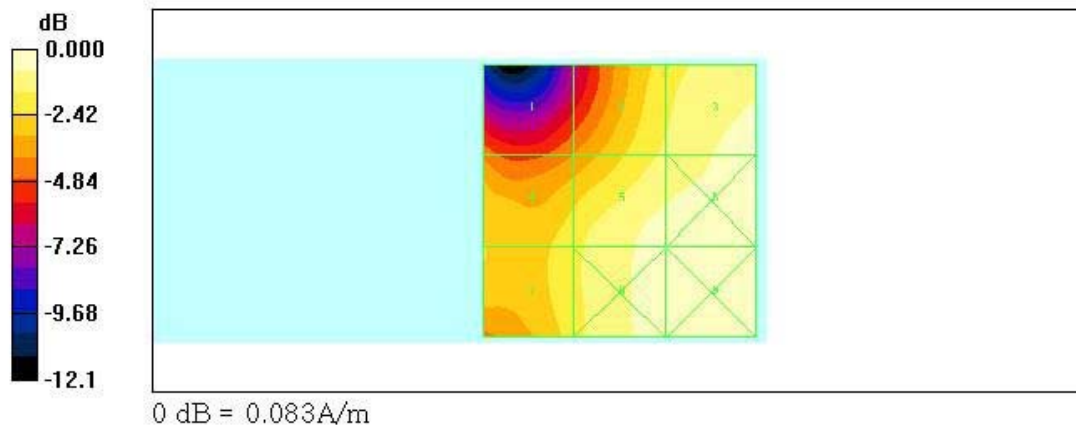
- Probe: H3DV6 - SN6101; ; Calibrated: 2005-07-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 0.079 A/m  
Probe Modulation Factor = 0.980  
Reference Value = 0.068 A/m; Power Drift = 0.002 dB  
**Hearing Aid Near-Field Category: M4 (A WF 0 dB)**

Peak H-field in A/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 0.052  | 0.070  | 0.078  |
| Grid 4 | Grid 5 | Grid 6 |
| 0.067  | 0.079  | 0.083  |
| Grid 7 | Grid 8 | Grid 9 |
| 0.068  | 0.080  | 0.083  |



Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.  
Mode : PCS1900 / Antenna : in / Channel : 600  
Date Tested : March 31, 2006

DUT: PN-218; Type: Folder; Serial: #1

Program Name: HAC H Device

Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0 \text{ mho/m}$ ,  $\epsilon_r = 1$ ;  $\rho = 1 \text{ kg/m}^3$ 

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2005-07-20

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn446; Calibrated: 2006-03-17

- Phantom: HAC Test Arch; Type: SD HAC P01 BA

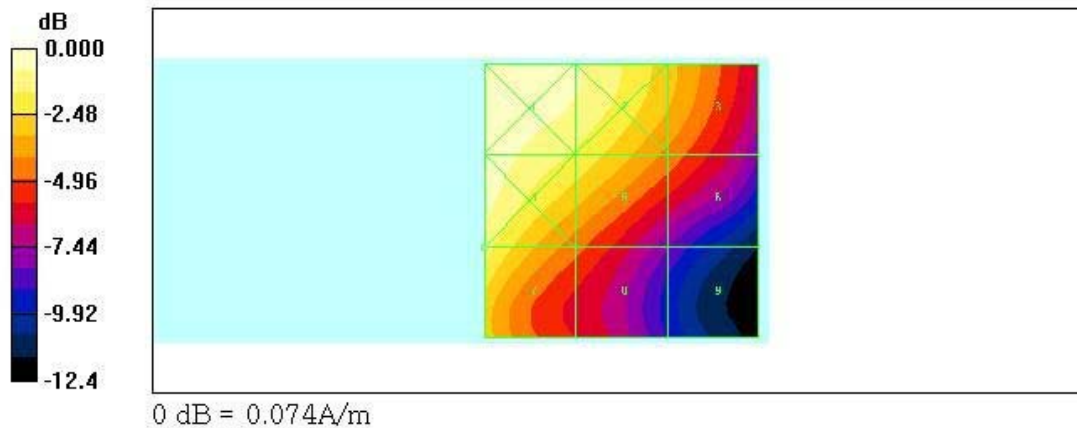
**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ Maximum value of peak Total field =  $0.064 \text{ A/m}$ 

Probe Modulation Factor = 0.980

Reference Value =  $0.045 \text{ A/m}$ ; Power Drift =  $-0.065 \text{ dB}$ Hearing Aid Near-Field Category: **M4 (A WF 0 dB)**

Peak H-field in A/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 0.074  | 0.068  | 0.052  |
| Grid 4 | Grid 5 | Grid 6 |
| 0.073  | 0.060  | 0.045  |
| Grid 7 | Grid 8 | Grid 9 |
| 0.064  | 0.044  | 0.029  |



Test Laboratory: HCT

Company : PANTECH&amp;CURITEL COMMUNICATIONS, INC.

Mode : PCS1900 / Antenna : out / Channel : 600

Date Tested : March 31, 2006

DUT: PN-218; Type: Folder; Serial: #1

Program Name: HAC H Device

Communication System: PCS1900; 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

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2005-07-20

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn446; Calibrated: 2006-03-17

- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**

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

Maximum value of peak Total field = 0.078 A/m

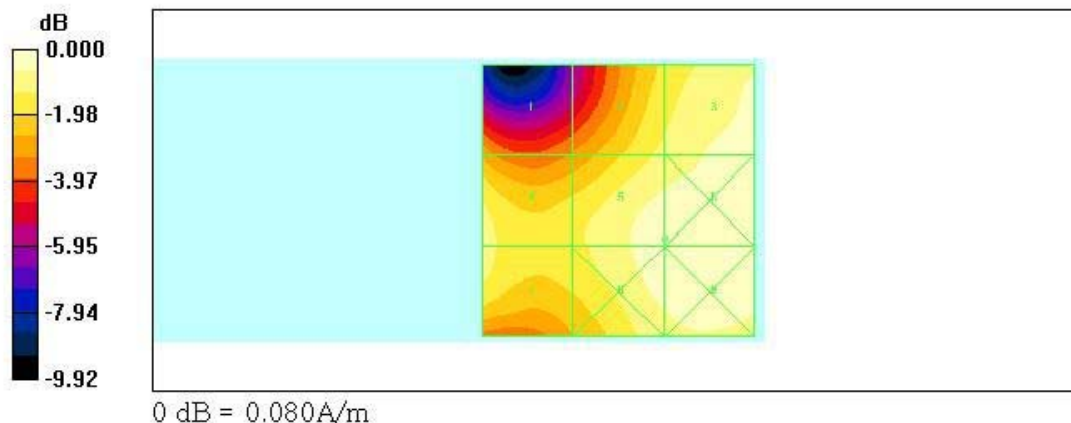
Probe Modulation Factor = 0.980

Reference Value = 0.067 A/m; Power Drift = -0.143 dB

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

Peak H-field in A/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 0.058  | 0.070  | 0.076  |
| Grid 4 | Grid 5 | Grid 6 |
| 0.072  | 0.078  | 0.080  |
| Grid 7 | Grid 8 | Grid 9 |
| 0.072  | 0.078  | 0.080  |





Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.  
Mode : PCS1900 / Antenna : in / Channel : 1175  
Date Tested : March 31, 2006

DUT: PN-218; Type: Folder; Serial: #1  
Program Name: HAC H Device

Communication System: PCS1900; Frequency: 1908.75 MHz; Duty Cycle: 1:1  
Medium parameters used:  $\sigma = 0 \text{ mho/m}$ ,  $\epsilon_r = 1$ ;  $\rho = 1 \text{ kg/m}^3$   
Phantom section: H Device Section

DASY4 Configuration:

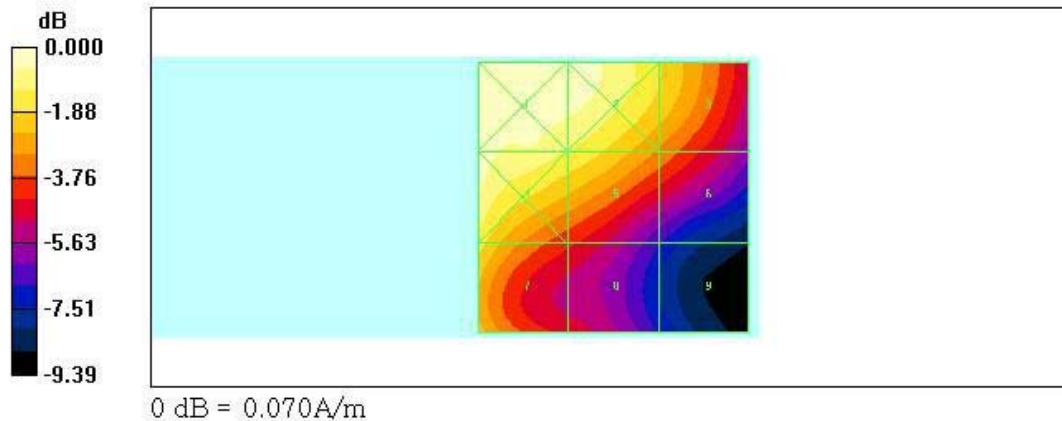
- Probe: H3DV6 - SN6101; ; Calibrated: 2005-07-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

### H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 0.060 A/m  
Probe Modulation Factor = 0.980  
Reference Value = 0.045 A/m; Power Drift = -0.076 dB  
Hearing Aid Near-Field Category: M4 (A WF 0 dB)

Peak H-field in A/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 0.070  | 0.068  | 0.057  |
| Grid 4 | Grid 5 | Grid 6 |
| 0.069  | 0.060  | 0.048  |
| Grid 7 | Grid 8 | Grid 9 |
| 0.059  | 0.043  | 0.032  |



Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.  
Mode : PCS1900 / Antenna : out / Channel : 1175  
Date Tested : March 31, 2006

**DUT: PN-218; Type: Folder; Serial: #1**  
**Program Name: HAC H Device**

Communication System: PCS1900; 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

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2005-07-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
Maximum value of peak Total field = 0.063 A/m  
Probe Modulation Factor = 0.980  
Reference Value = 0.050 A/m; Power Drift = 0.130 dB  
**Hearing Aid Near-Field Category: M4 (A WF 0 dB)**

Peak H-field in A/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 0.047  | 0.056  | 0.059  |
| Grid 4 | Grid 5 | Grid 6 |
| 0.057  | 0.063  | 0.065  |
| Grid 7 | Grid 8 | Grid 9 |
| 0.057  | 0.063  | 0.065  |

