

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

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Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /128

Test Date Jan.04, 2010

**DUT: STX-2; 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/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 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- 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):**

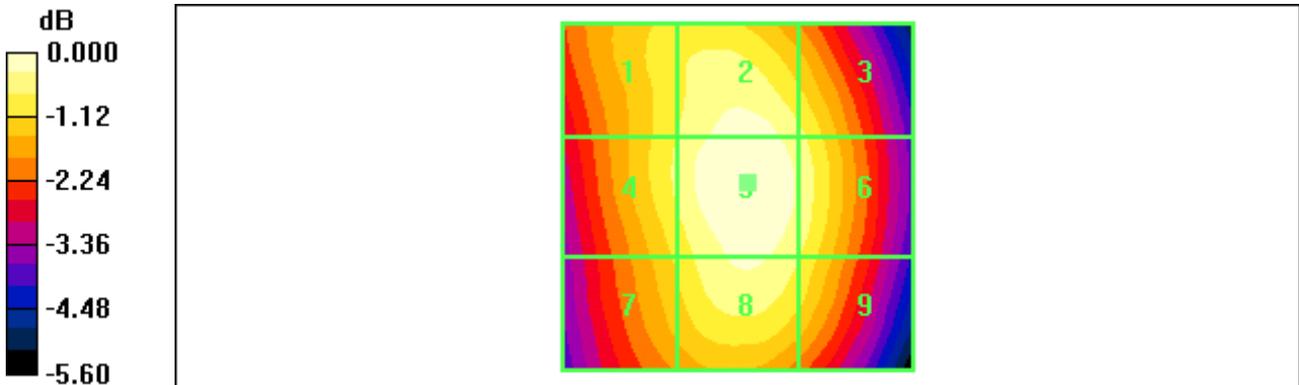
Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 149.5 V/m  
 Probe Modulation Factor = 2.64  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 81.8 V/m; Power Drift = 0.051 dB  
**Hearing Aid Near-Field Category: M4 (AWF -5 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
137.5 M4	146.5 M4	139.4 M4
Grid 4	Grid 5	Grid 6
138.9 M4	149.5 M4	142.4 M4
Grid 7	Grid 8	Grid 9
133.1 M4	144.4 M4	137.8 M4

**Cursor:**

Total = 149.5 V/m  
 E Category: M4  
 Location: -1.5, -2, 369.9 mm



0 dB = 149.5V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /190

Test Date Jan.04, 2010

**DUT: STX-2; 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/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 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- 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 = 202.6 V/m

Probe Modulation Factor = 2.64

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 111.4 V/m; Power Drift = -0.018 dB

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

Peak E-field in V/m

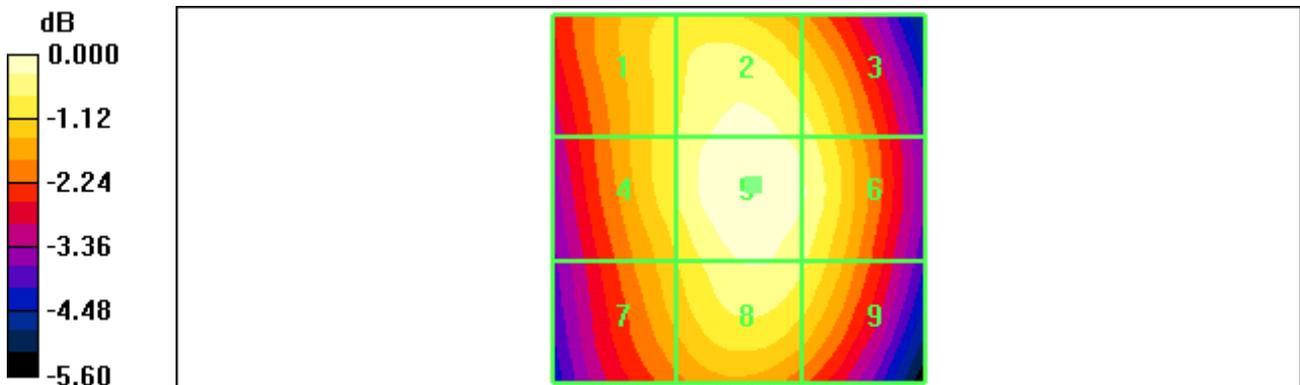
Grid 1	Grid 2	Grid 3
185.3 M3	197.6 M3	190.3 M3
Grid 4	Grid 5	Grid 6
186.6 M3	202.6 M3	195.1 M3
Grid 7	Grid 8	Grid 9
177.7 M3	194.7 M3	187.6 M3

**Cursor:**

Total = 202.6 V/m

E Category: M3

Location: -2, -2, 369.9 mm



0 dB = 202.6V/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.3 °C /251  
 Test Date Jan.04, 2010

**DUT: STX-2; 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/m<sup>3</sup>  
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

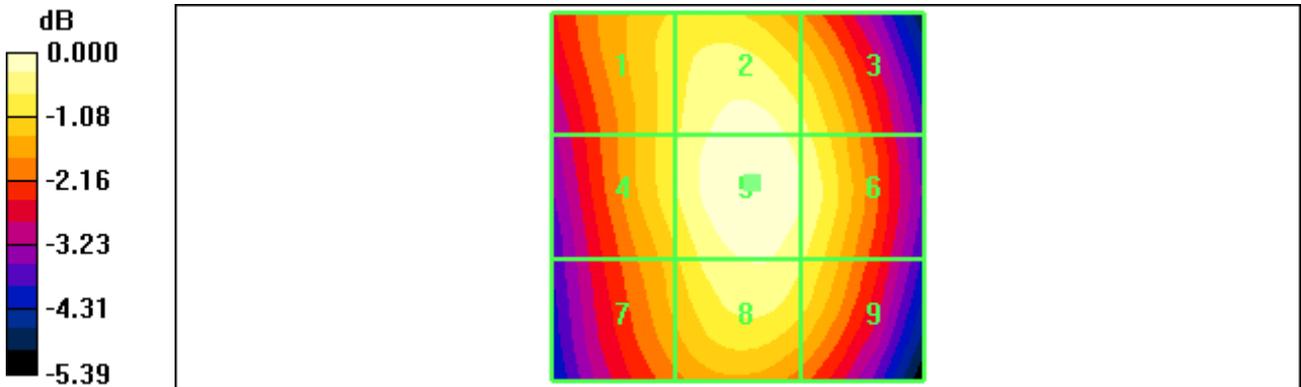
DASY4 Configuration:  
 - Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**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 = 182.7 V/m  
 Probe Modulation Factor = 2.64  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 100.4 V/m; Power Drift = 0.014 dB  
**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
166.8 M3	179.3 M3	171.0 M3
Grid 4	Grid 5	Grid 6
168.0 M3	182.7 M3	175.8 M3
Grid 7	Grid 8	Grid 9
159.8 M3	175.8 M3	169.2 M3

**Cursor:**  
 Total = 182.7 V/m  
 E Category: M3  
 Location: -2, -2, 369.9 mm



0 dB = 182.7V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /512

Test Date Jan.04, 2010

**DUT: STX-2; 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/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 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- 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 = 71.2 V/m  
 Probe Modulation Factor = 2.54  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 19.0 V/m; Power Drift = 0.045 dB  
**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**

Peak E-field in V/m

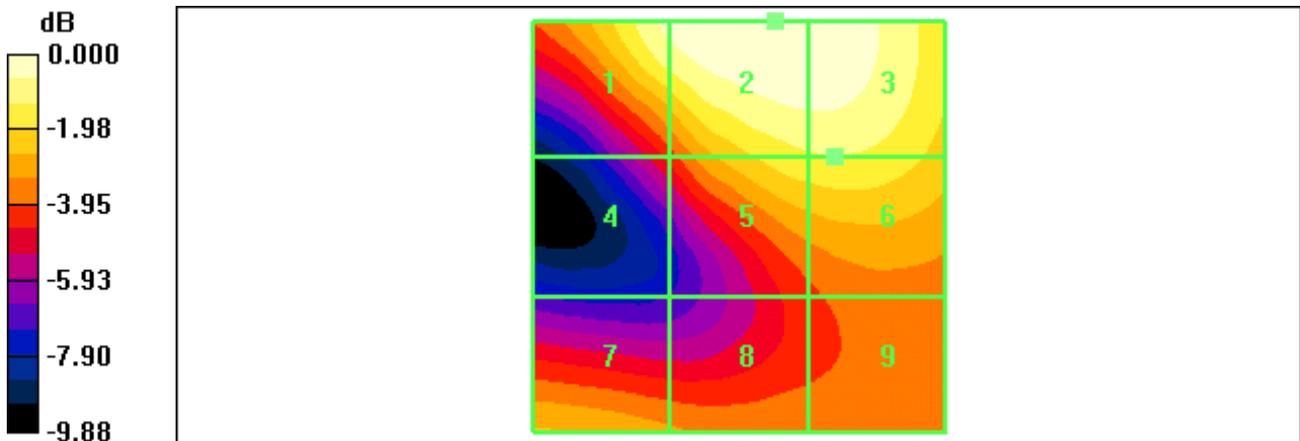
Grid 1	Grid 2	Grid 3
67.4 M3	71.2 M3	71.2 M3
Grid 4	Grid 5	Grid 6
43.2 M4	60.4 M3	61.0 M3
Grid 7	Grid 8	Grid 9
53.1 M3	49.7 M3	48.0 M3

**Cursor:**

Total = 71.2 V/m

E Category: M3

Location: -4.5, -25, 369.9 mm



0 dB = 71.2V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /661

Test Date Jan.04, 2010

**DUT: STX-2; 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/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 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- 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):**

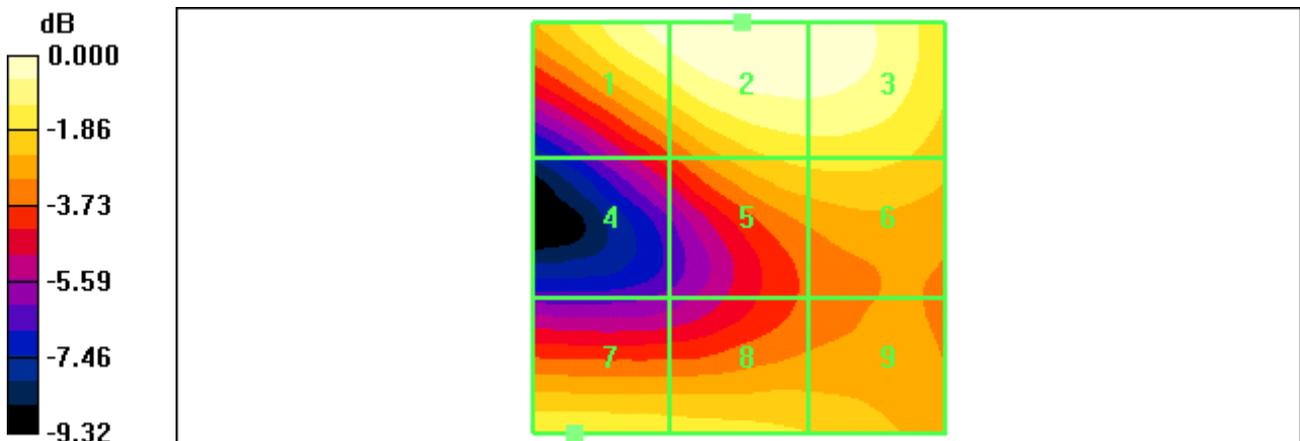
Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 63.9 V/m  
 Probe Modulation Factor = 2.54  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 15.1 V/m; Power Drift = 0.049 dB  
**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
61.6 M3	63.9 M3	62.9 M3
Grid 4	Grid 5	Grid 6
40.7 M4	52.7 M3	53.0 M3
Grid 7	Grid 8	Grid 9
55.2 M3	54.2 M3	51.6 M3

**Cursor:**

Total = 63.9 V/m  
 E Category: M3  
 Location: -0.5, -25, 369.9 mm



0 dB = 63.9V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /810

Test Date Jan.04, 2010

**DUT: STX-2; 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/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 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- 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):**

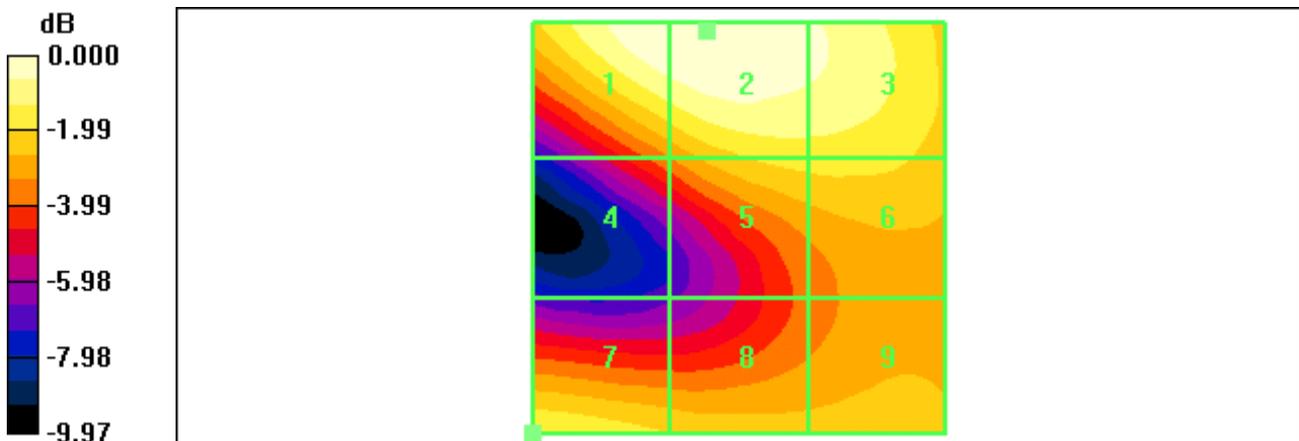
Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 61.0 V/m  
 Probe Modulation Factor = 2.54  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 15.8 V/m; Power Drift = 0.034 dB  
**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
60.8 M3	61.0 M3	57.5 M3
Grid 4	Grid 5	Grid 6
41.3 M4	50.2 M3	50.3 M3
Grid 7	Grid 8	Grid 9
52.1 M3	48.5 M3	46.6 M4

**Cursor:**

Total = 61.0 V/m  
 E Category: M3  
 Location: 4, -24, 369.9 mm



0 dB = 61.0V/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.3 °C /128  
 Test Date Jan.04, 2010

**DUT: STX-2; 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/m<sup>3</sup>  
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

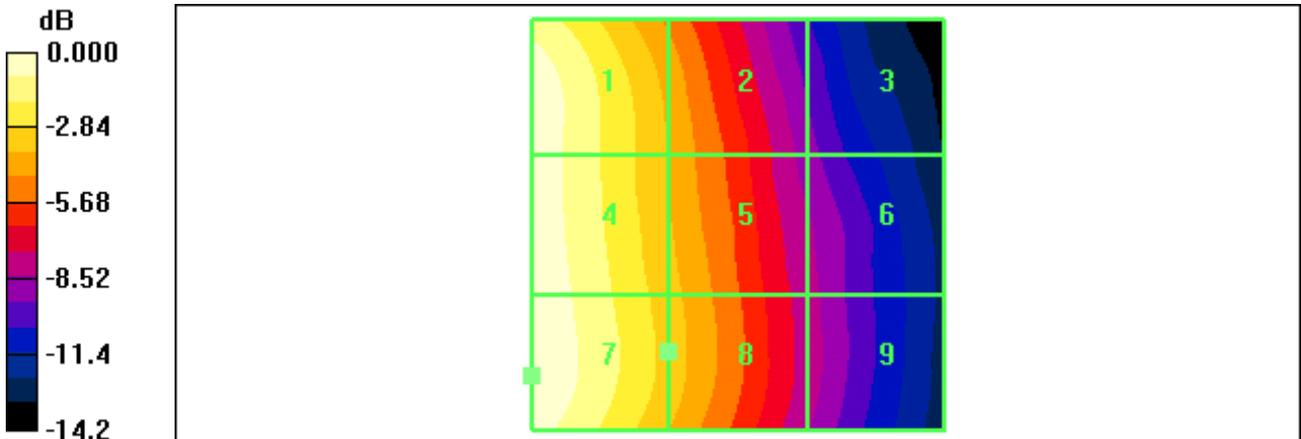
DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**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 = 0.222 A/m  
 Probe Modulation Factor = 1.94  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.057 A/m; Power Drift = 0.159 dB  
**Hearing Aid Near-Field Category: M4 (AWF -5 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.215 M4	0.143 M4	0.079 M4
Grid 4	Grid 5	Grid 6
0.218 M4	0.151 M4	0.087 M4
Grid 7	Grid 8	Grid 9
0.222 M4	0.154 M4	0.088 M4

**Cursor:**  
 Total = 0.222 A/m  
 H Category: M4  
 Location: 25, 18.5, 369.4 mm



0 dB = 0.222A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /190

Test Date Jan.04, 2010

**DUT: STX-2; 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/m<sup>3</sup>  
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

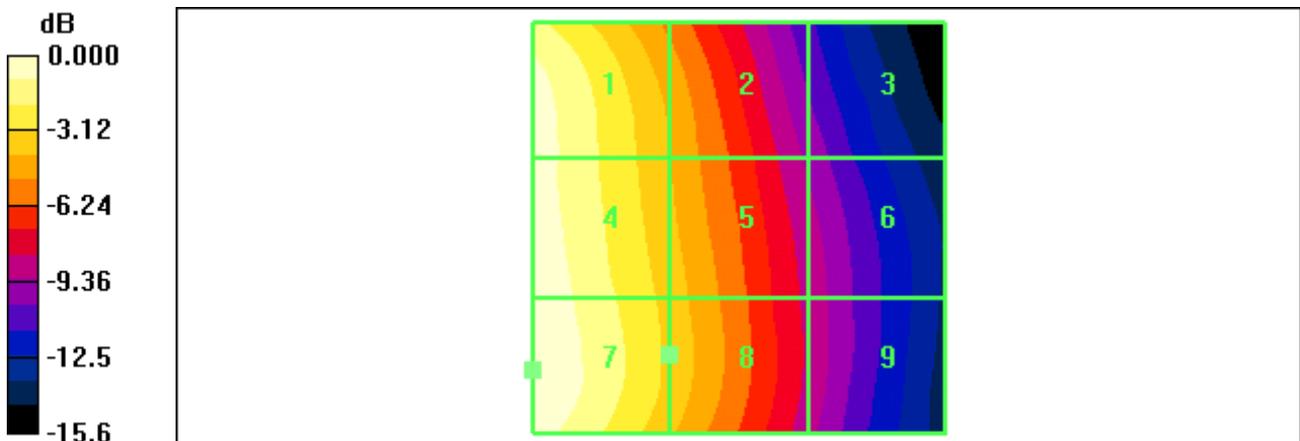
DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**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 = 0.308 A/m  
 Probe Modulation Factor = 1.94  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.078 A/m; Power Drift = -0.046 dB  
**Hearing Aid Near-Field Category: M4 (AWF -5 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.291 M4	0.192 M4	0.102 M4
Grid 4	Grid 5	Grid 6
0.302 M4	0.206 M4	0.114 M4
Grid 7	Grid 8	Grid 9
0.308 M4	0.210 M4	0.116 M4

**Cursor:**  
 Total = 0.308 A/m  
 H Category: M4  
 Location: 25, 17.5, 369.4 mm



0 dB = 0.308A/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.3 °C /251  
 Test Date Jan.04, 2010

**DUT: STX-2; 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/m<sup>3</sup>  
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

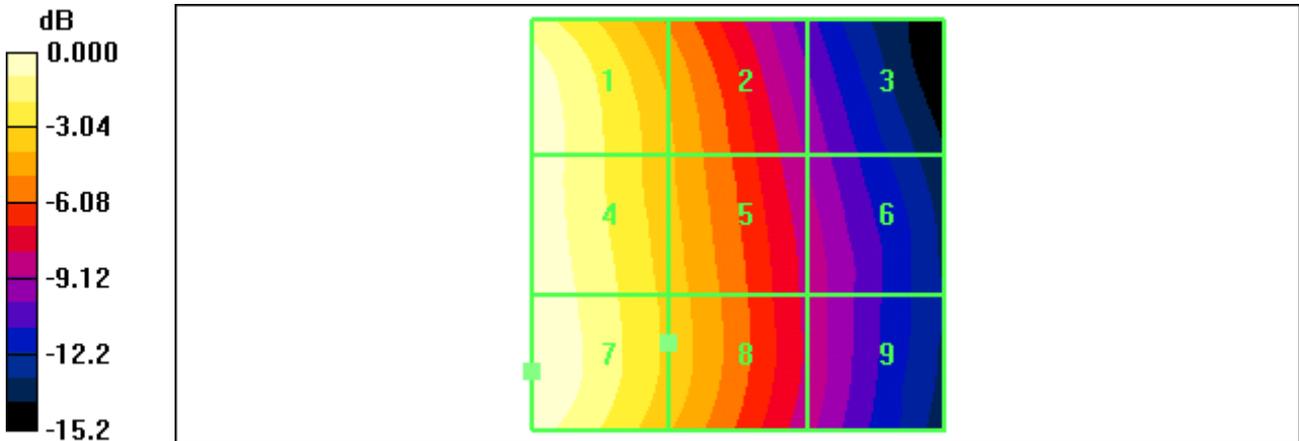
DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**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 = 0.283 A/m  
 Probe Modulation Factor = 1.94  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.074 A/m; Power Drift = 0.017 dB  
**Hearing Aid Near-Field Category: M4 (AWF -5 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.274 M4	0.183 M4	0.098 M4
Grid 4	Grid 5	Grid 6
0.279 M4	0.192 M4	0.108 M4
Grid 7	Grid 8	Grid 9
0.283 M4	0.195 M4	0.109 M4

**Cursor:**  
 Total = 0.283 A/m  
 H Category: M4  
 Location: 25, 18, 369.4 mm



0 dB = 0.283A/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.3 °C /512  
 Test Date Jan.04, 2010

**DUT: STX-2; 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/m<sup>3</sup>  
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

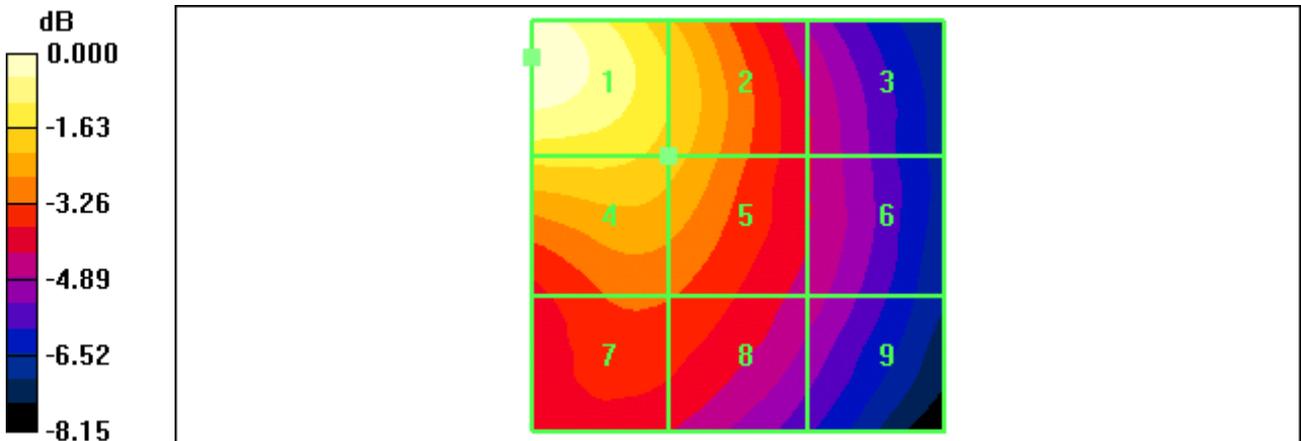
DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**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 = 0.175 A/m  
 Probe Modulation Factor = 2.21  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.055 A/m; Power Drift = -0.103 dB  
**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.175 M3	0.146 M3	0.107 M4
Grid 4	Grid 5	Grid 6
0.149 M3	0.141 M3	0.107 M4
Grid 7	Grid 8	Grid 9
0.122 M4	0.121 M4	0.103 M4

**Cursor:**  
 Total = 0.175 A/m  
 H Category: M3  
 Location: 25, -20.5, 369.4 mm



0 dB = 0.175A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /661

Test Date Jan.04, 2010

**DUT: STX-2; 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/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 - SN6101; ; Calibrated: 2009-05-22
- 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 = 0.153 A/m

Probe Modulation Factor = 2.21

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.044 A/m; Power Drift = -0.121 dB

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

Peak H-field in A/m

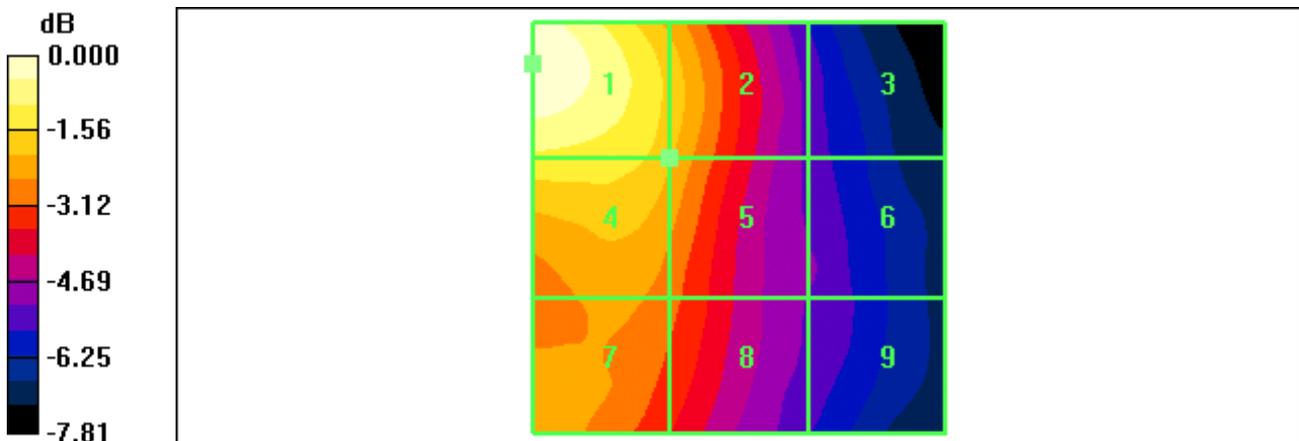
Grid 1	Grid 2	Grid 3
0.153 M3	0.126 M4	0.083 M4
Grid 4	Grid 5	Grid 6
0.134 M4	0.122 M4	0.085 M4
Grid 7	Grid 8	Grid 9
0.119 M4	0.110 M4	0.084 M4

**Cursor:**

Total = 0.153 A/m

H Category: M3

Location: 25, -20, 369.4 mm



0 dB = 0.153A/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.3 °C /810  
 Test Date Jan.04, 2010

**DUT: STX-2; 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/m<sup>3</sup>  
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

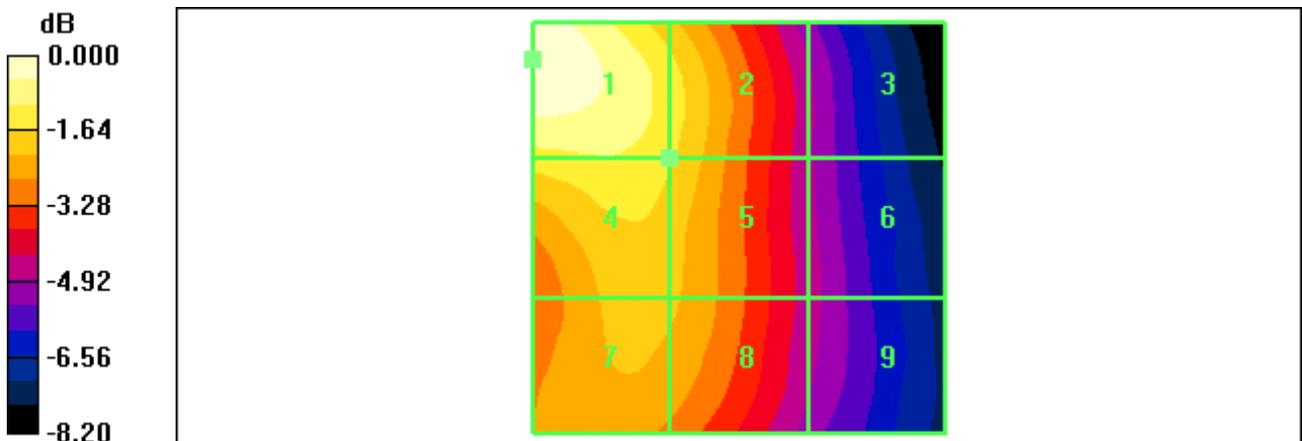
DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**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 = 0.151 A/m  
 Probe Modulation Factor = 2.21  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.048 A/m; Power Drift = 0.029 dB  
**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
<b>0.151 M3</b>	<b>0.129 M4</b>	<b>0.087 M4</b>
Grid 4	<b>Grid 5</b>	Grid 6
<b>0.133 M4</b>	<b>0.126 M4</b>	<b>0.089 M4</b>
Grid 7	Grid 8	Grid 9
<b>0.121 M4</b>	<b>0.119 M4</b>	<b>0.088 M4</b>

**Cursor:**  
 Total = 0.151 A/m  
 H Category: M3  
 Location: 25, -20.5, 369.4 mm



0 dB = 0.151A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /4132

Test Date Jan.04, 2010

**DUT: STX-2; 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/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 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- 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):**

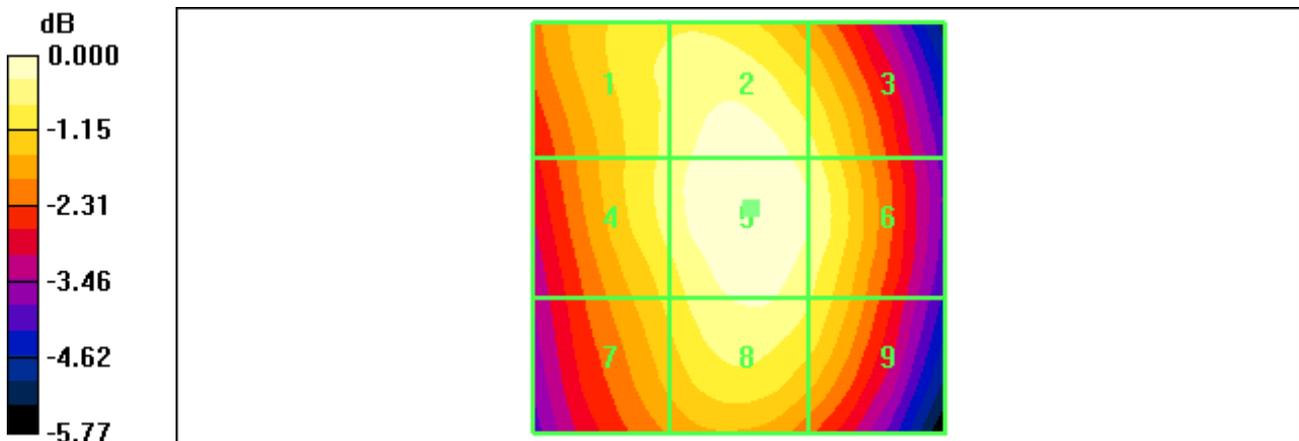
Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 49.6 V/m  
 Probe Modulation Factor = 0.837  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 85.8 V/m; Power Drift = -0.053 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
46.1 M4	48.8 M4	46.4 M4
Grid 4	Grid 5	Grid 6
46.4 M4	49.6 M4	47.5 M4
Grid 7	Grid 8	Grid 9
44.1 M4	47.8 M4	45.6 M4

**Cursor:**

Total = 49.6 V/m  
 E Category: M4  
 Location: -1.5, -2.5, 369.9 mm



0 dB = 49.6V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /4183

Test Date Jan.04, 2010

**DUT: STX-2; 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/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 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- 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):**

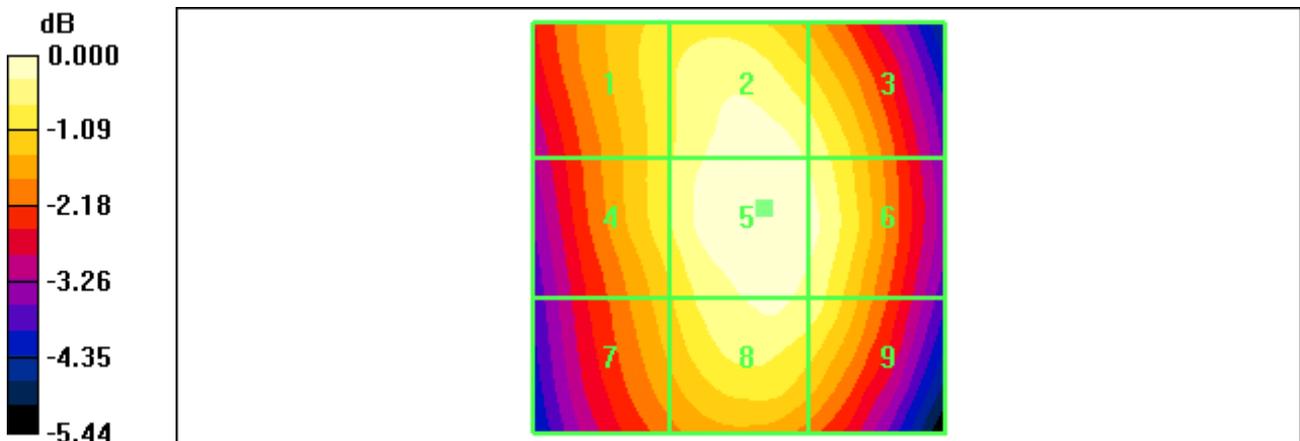
Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 56.7 V/m  
 Probe Modulation Factor = 0.837  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 97.5 V/m; Power Drift = 0.128 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
51.8 M4	55.8 M4	54.1 M4
Grid 4	Grid 5	Grid 6
52.1 M4	56.7 M4	55.2 M4
Grid 7	Grid 8	Grid 9
49.7 M4	54.9 M4	53.6 M4

**Cursor:**

Total = 56.7 V/m  
 E Category: M4  
 Location: -3, -2.5, 369.9 mm



0 dB = 56.7V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /4233

Test Date Jan.04, 2010

**DUT: STX-2; 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/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 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- 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):**

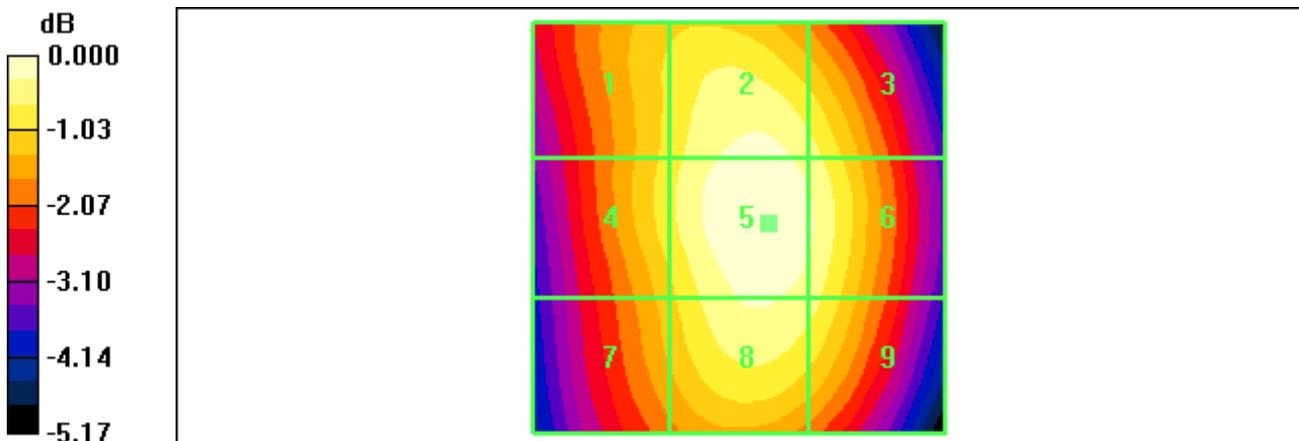
Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 62.5 V/m  
 Probe Modulation Factor = 0.837  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 107.4 V/m; Power Drift = 0.042 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
56.5 M4	61.0 M4	59.0 M4
Grid 4	Grid 5	Grid 6
57.0 M4	62.5 M4	60.5 M4
Grid 7	Grid 8	Grid 9
54.7 M4	60.4 M4	58.8 M4

**Cursor:**

Total = 62.5 V/m  
 E Category: M4  
 Location: -3.5, -0.5, 369.9 mm



0 dB = 62.5V/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.3 °C /9262  
 Test Date Jan.04, 2010

**DUT: STX-2; 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/m<sup>3</sup>  
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

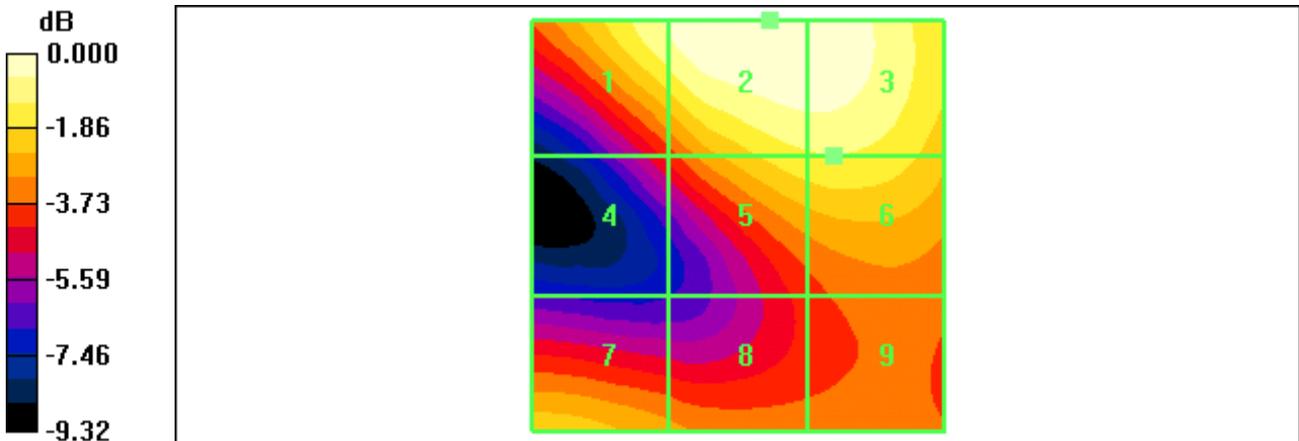
DASY4 Configuration:  
 - Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**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 = 30.8 V/m  
 Probe Modulation Factor = 0.855  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 24.6 V/m; Power Drift = -0.199 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
29.0 M4	30.8 M4	30.6 M4
Grid 4	Grid 5	Grid 6
19.2 M4	26.4 M4	26.6 M4
Grid 7	Grid 8	Grid 9
24.3 M4	22.3 M4	21.0 M4

**Cursor:**  
 Total = 30.8 V/m  
 E Category: M4  
 Location: -4, -25, 369.9 mm



0 dB = 30.8V/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.3 °C /9400  
 Test Date Jan.04, 2010

**DUT: STX-2; 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/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 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- 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):**

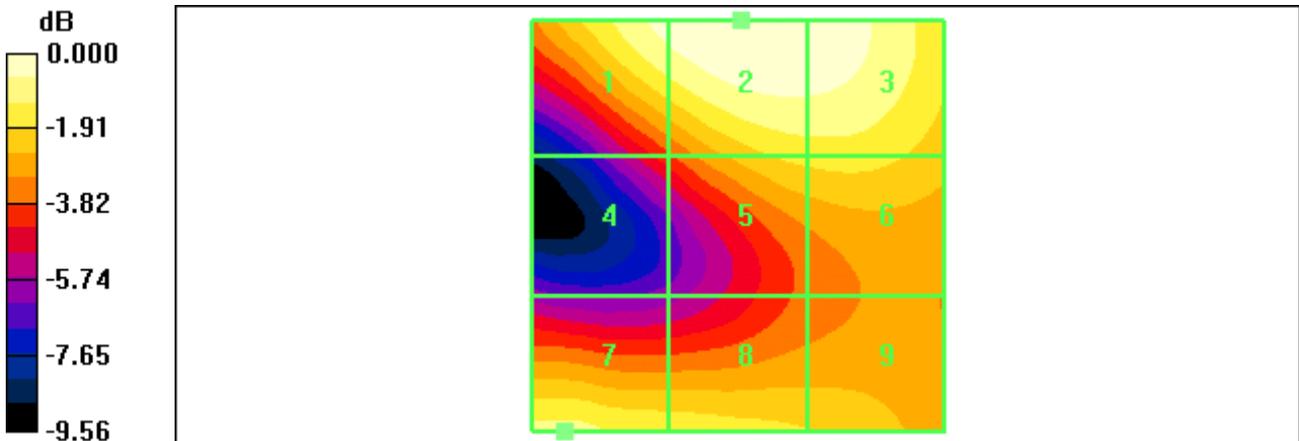
Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 28.4 V/m  
 Probe Modulation Factor = 0.855  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 19.8 V/m; Power Drift = 0.063 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
27.1 M4	28.4 M4	28.0 M4
Grid 4	Grid 5	Grid 6
18.0 M4	23.4 M4	23.6 M4
Grid 7	Grid 8	Grid 9
25.3 M4	24.1 M4	22.8 M4

**Cursor:**

Total = 28.4 V/m  
 E Category: M4  
 Location: -0.5, -25, 369.9 mm



0 dB = 28.4V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /9538

Test Date Jan.04, 2010

**DUT: STX-2; 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/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 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- 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):**

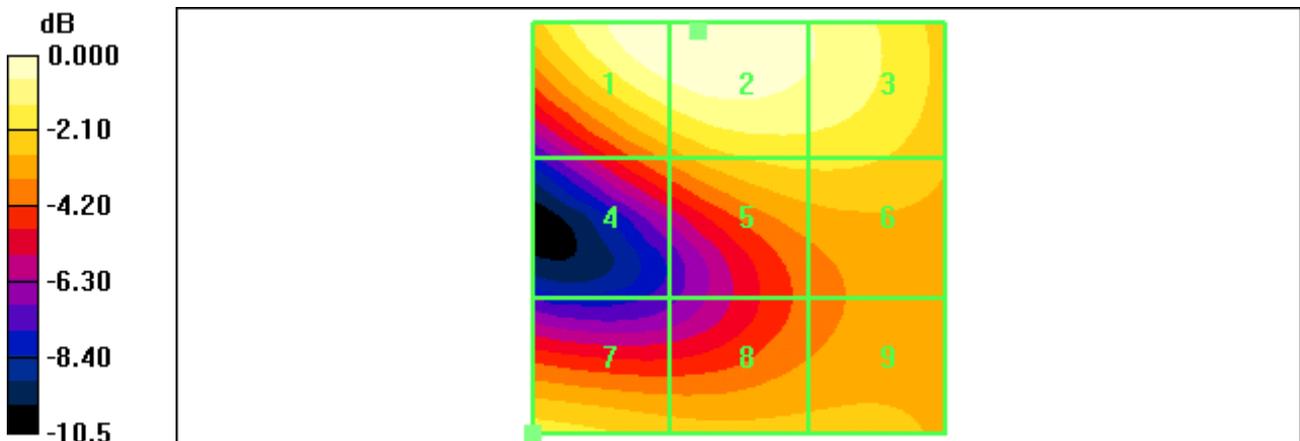
Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 33.3 V/m  
 Probe Modulation Factor = 0.855  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 26.1 V/m; Power Drift = 0.027 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
33.2 M4	33.3 M4	30.9 M4
Grid 4	Grid 5	Grid 6
22.9 M4	26.9 M4	26.9 M4
Grid 7	Grid 8	Grid 9
27.3 M4	25.3 M4	24.9 M4

**Cursor:**

Total = 33.3 V/m  
 E Category: M4  
 Location: 5, -24, 369.9 mm



0 dB = 33.3V/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.3 °C /4132  
 Test Date Jan.04, 2010

**DUT: STX-2; 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/m<sup>3</sup>  
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

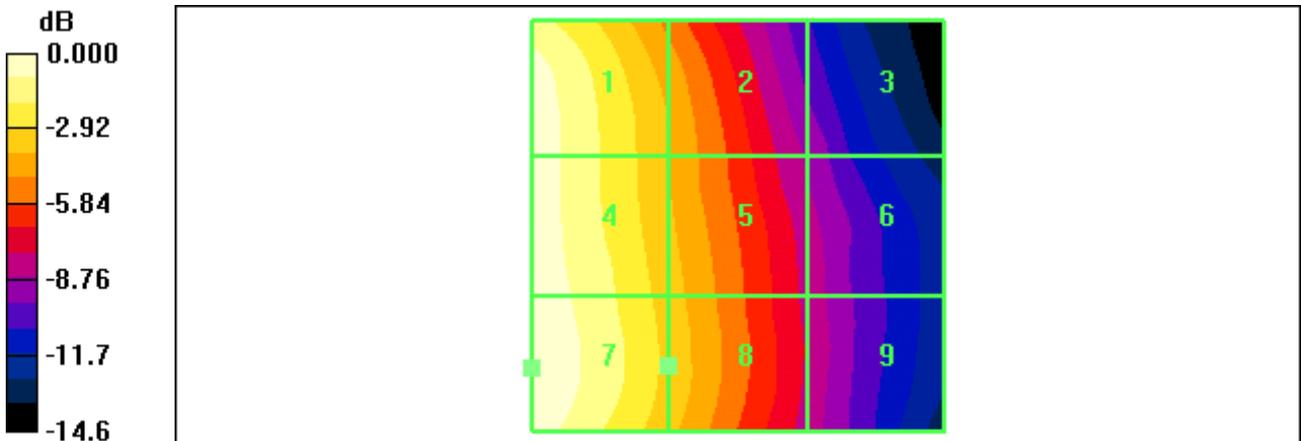
DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**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 = 0.096 A/m  
 Probe Modulation Factor = 0.825  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.060 A/m; Power Drift = -0.082 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.093 M4	0.062 M4	0.034 M4
Grid 4	Grid 5	Grid 6
0.094 M4	0.065 M4	0.038 M4
Grid 7	Grid 8	Grid 9
0.096 M4	0.067 M4	0.039 M4

**Cursor:**  
 Total = 0.096 A/m  
 H Category: M4  
 Location: 25, 17.5, 369.4 mm



0 dB = 0.096A/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.3 °C /4183  
 Test Date Jan.04, 2010

**DUT: STX-2; 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/m<sup>3</sup>  
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

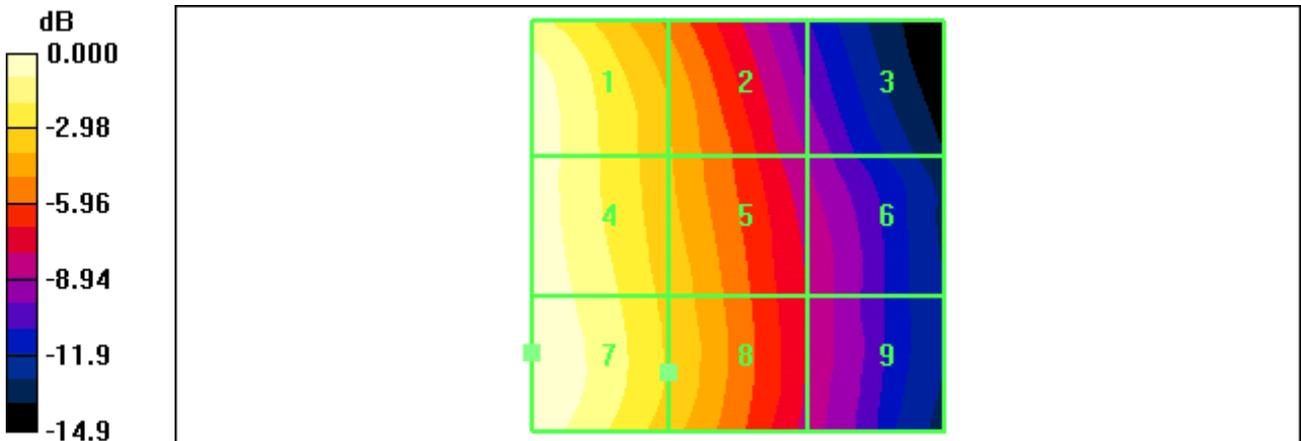
DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**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 = 0.112 A/m  
 Probe Modulation Factor = 0.825  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.070 A/m; Power Drift = 0.011 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.107 M4	0.072 M4	0.040 M4
Grid 4	Grid 5	Grid 6
0.109 M4	0.077 M4	0.045 M4
Grid 7	Grid 8	Grid 9
0.112 M4	0.079 M4	0.045 M4

**Cursor:**  
 Total = 0.112 A/m  
 H Category: M4  
 Location: 25, 15.5, 369.4 mm



0 dB = 0.112A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /4233

Test Date Jan.04, 2010

**DUT: STX-2; 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/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 - SN6101; ; Calibrated: 2009-05-22
- 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):**

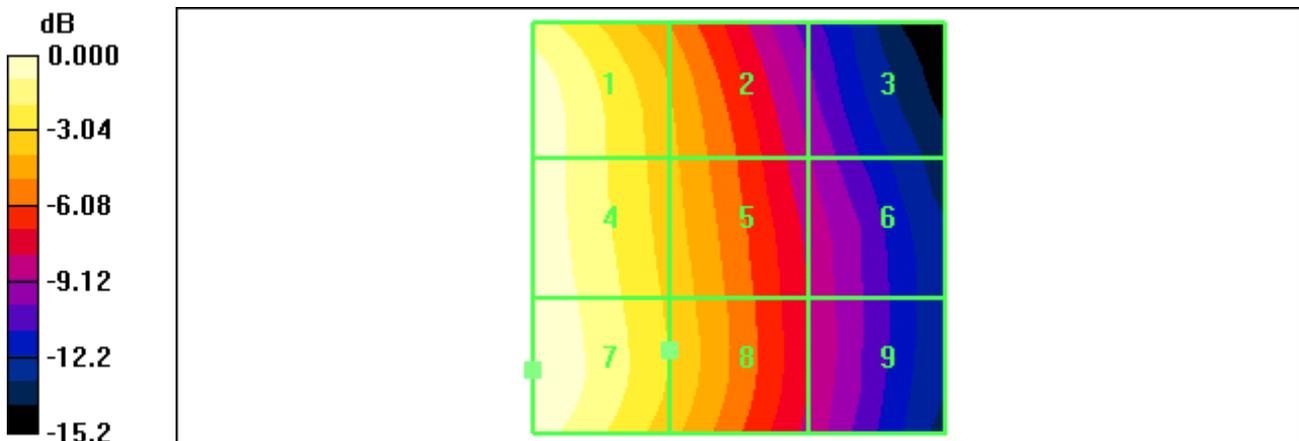
Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 0.121 A/m  
 Probe Modulation Factor = 0.825  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.077 A/m; Power Drift = 0.032 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.116 M4	0.079 M4	0.043 M4
Grid 4	Grid 5	Grid 6
0.119 M4	0.083 M4	0.047 M4
Grid 7	Grid 8	Grid 9
0.121 M4	0.085 M4	0.048 M4

**Cursor:**

Total = 0.121 A/m  
 H Category: M4  
 Location: 25, 17.5, 369.4 mm



0 dB = 0.121A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /9262

Test Date Jan.04, 2010

**DUT: STX-2; 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/m<sup>3</sup>  
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

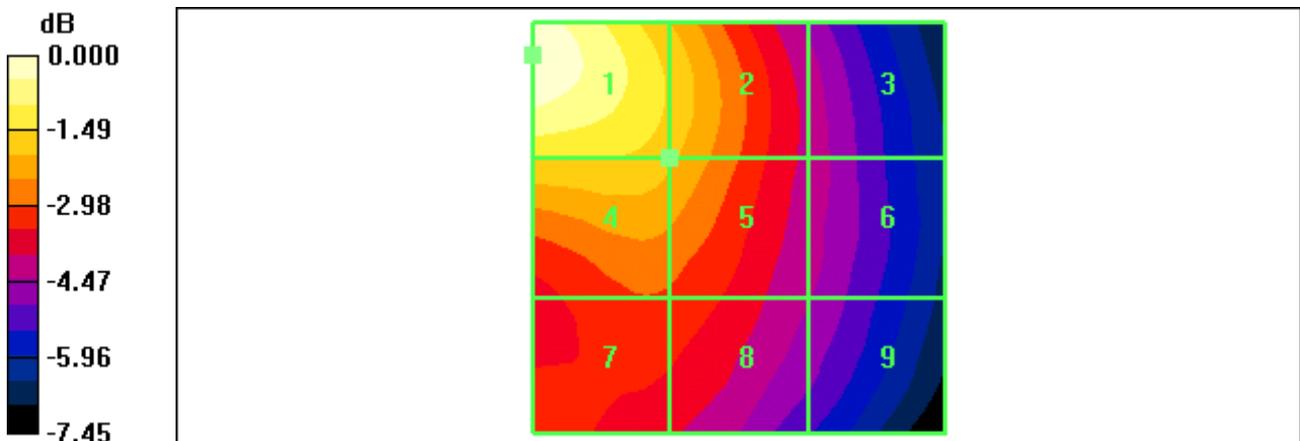
DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**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 = 0.074 A/m  
 Probe Modulation Factor = 0.814  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.063 A/m; Power Drift = 0.023 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.074 M4	0.062 M4	0.046 M4
Grid 4	Grid 5	Grid 6
0.063 M4	0.060 M4	0.046 M4
Grid 7	Grid 8	Grid 9
0.052 M4	0.052 M4	0.044 M4

**Cursor:**  
 Total = 0.074 A/m  
 H Category: M4  
 Location: 25, -21, 369.4 mm



0 dB = 0.074A/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.3 °C /9400  
 Test Date Jan.04, 2010

**DUT: STX-2; 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/m<sup>3</sup>  
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

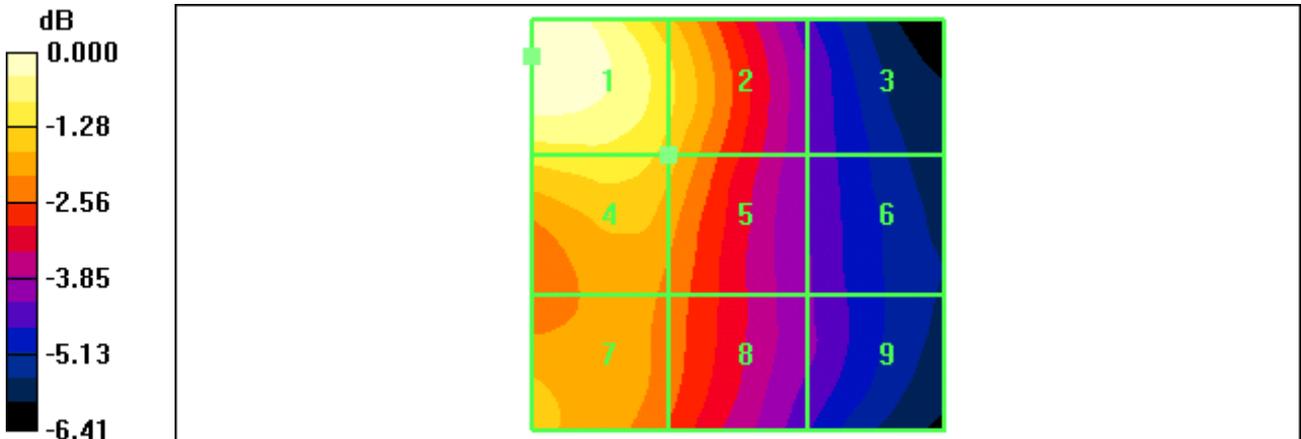
DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**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 = 0.063 A/m  
 Probe Modulation Factor = 0.814  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.053 A/m; Power Drift = 0.307 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.063 M4	0.055 M4	0.039 M4
Grid 4	Grid 5	Grid 6
0.056 M4	0.053 M4	0.039 M4
Grid 7	Grid 8	Grid 9
0.053 M4	0.049 M4	0.039 M4

**Cursor:**  
 Total = 0.063 A/m  
 H Category: M4  
 Location: 25, -20.5, 369.4 mm



0 dB = 0.063A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /9538

Test Date Jan.04, 2010

**DUT: STX-2; 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/m<sup>3</sup>  
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

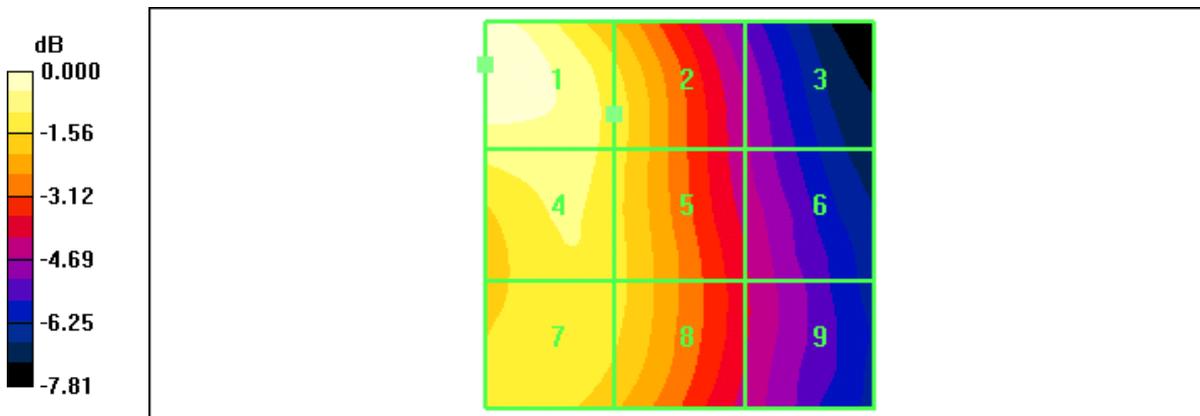
DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**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 = 0.080 A/m  
 Probe Modulation Factor = 0.814  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.072 A/m; Power Drift = -0.152 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
<b>0.080 M4</b>	<b>0.069 M4</b>	<b>0.047 M4</b>
Grid 4	<b>Grid 5</b>	Grid 6
<b>0.074 M4</b>	<b>0.069 M4</b>	<b>0.050 M4</b>
Grid 7	Grid 8	Grid 9
<b>0.071 M4</b>	<b>0.069 M4</b>	<b>0.050 M4</b>

**Cursor:**  
 Total = 0.080 A/m  
 H Category: M4  
 Location: 25, -19.5, 369.4 mm



0 dB = 0.080A/m