

Test Laboratory: Kyocera Wireless Corp.

**E-FIELD\_E\_Device, Thunder\_R2D2 #5447 CDMA-1900, ST Battery BackLight ON OPEN, 07-19-06**

Communication System: CDMA-1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2282 Probe: H3DV6 - SN6123; ConvF(1, 1, 1); Calibrated: 10/21/2005 Calibrated: 9/2/2004
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn530; Calibrated: 1/16/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**CDMA-1900 ch25/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 39.8 V/m

Probe Modulation Factor = 1.00

Reference Value = 38.9 V/m; Power Drift = 0.061 dB

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

Peak E-field in V/m

Grid 1 35.7	Grid 2 35.7	Grid 3 32.8
Grid 4 39.8	Grid 5 39.8	Grid 6 35.7
Grid 7 37.9	Grid 8 38.0	Grid 9 34.6

**CDMA-1900 ch25/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.115 A/m

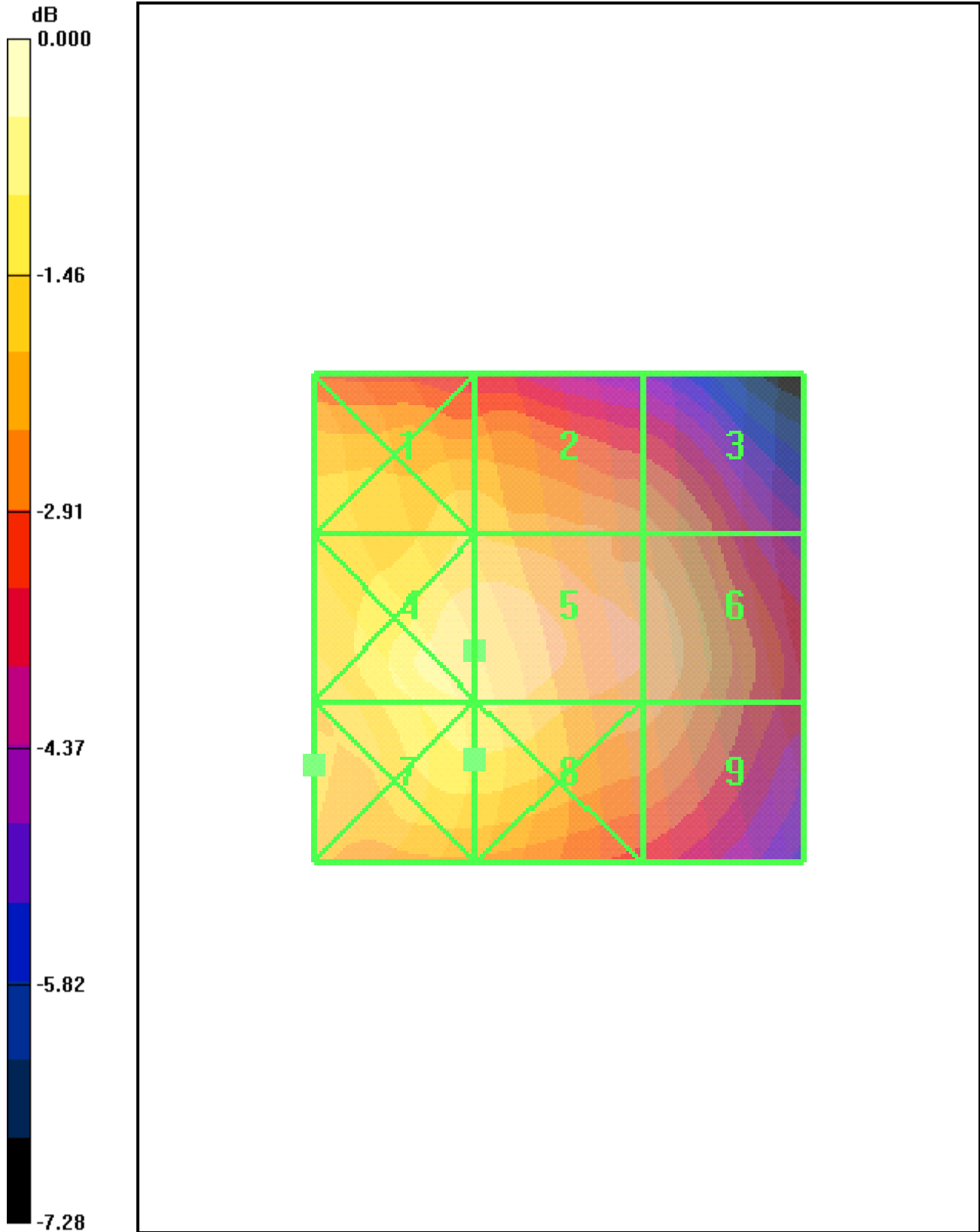
Probe Modulation Factor = 1.00

Reference Value = 0.083 A/m; Power Drift = 0.065 dB

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

Peak H-field in A/m

Grid 1 0.127	Grid 2 0.095	Grid 3 0.061
Grid 4 0.150	Grid 5 0.112	Grid 6 0.067
Grid 7 0.156	Grid 8 0.115	Grid 9 0.071



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**H-FIELD\_H\_Device, Thunder\_R2D2 #5447 CDMA-1900, ST Battery BckLite ON OPEN 07-20-06**

Communication System: CDMA-1900; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: H Device Section Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6123 Probe: ER3DV6 - SN2282; ConvF(1, 1, 1); Calibrated: 9/2/2004 Calibrated: 10/21/2005
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn530; Calibrated: 1/16/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**CDMA-1900 ch600/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.125 A/m

Probe Modulation Factor = 1.00

Reference Value = 0.094 A/m; Power Drift = -0.031 dB

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

Peak H-field in A/m

Grid 1 <b>0.139</b>	Grid 2 <b>0.107</b>	Grid 3 <b>0.071</b>
Grid 4 <b>0.157</b>	Grid 5 <b>0.124</b>	Grid 6 <b>0.079</b>
Grid 7 <b>0.159</b>	Grid 8 <b>0.125</b>	Grid 9 <b>0.082</b>

**CDMA-1900 ch600 2/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 37.4 V/m

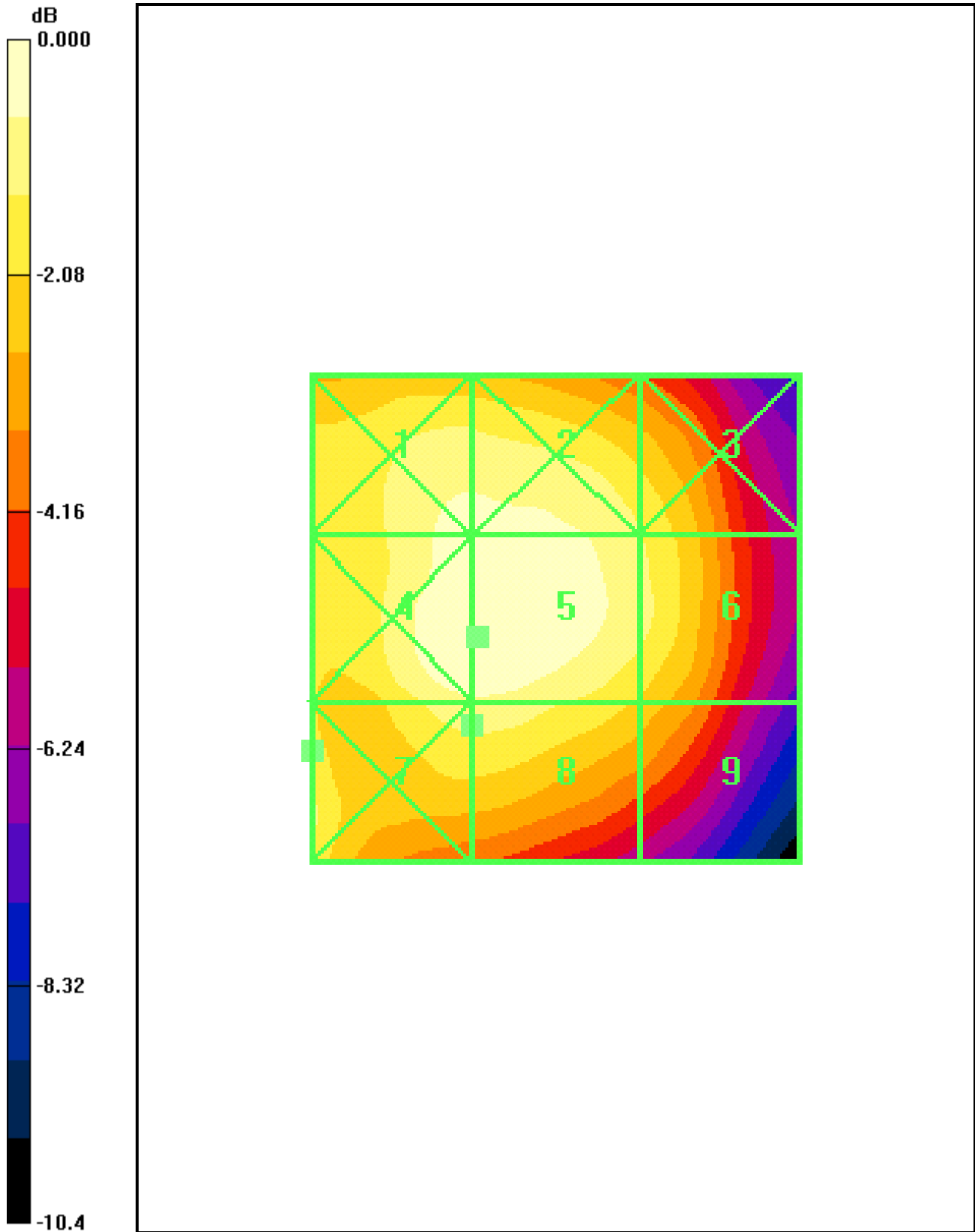
Probe Modulation Factor = 1.00

Reference Value = 39.0 V/m; Power Drift = -0.049 dB

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

Peak E-field in V/m

Grid 1 <b>36.3</b>	Grid 2 <b>36.3</b>	Grid 3 <b>34.0</b>
Grid 4 <b>37.4</b>	Grid 5 <b>37.4</b>	Grid 6 <b>34.6</b>
Grid 7 <b>35.3</b>	Grid 8 <b>35.3</b>	Grid 9 <b>32.0</b>



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**H-FIELD\_H\_Device, Thunder\_R2D2 #5447 CDMA-1900, ST Battery BckLite ON OPEN 07-20-06**

Communication System: CDMA-1900; Frequency: 1908.75 MHz; Duty Cycle: 1:1

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

Phantom section: H Device Section Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6123; Probe: ER3DV6 - SN2282; ConvF(1, 1, 1); Calibrated: 9/2/2004; Calibrated: 10/21/2005
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn530; Calibrated: 1/16/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**CDMA-1900 ch1175/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.140 A/m

Probe Modulation Factor = 1.00

Reference Value = 0.106 A/m; Power Drift = -0.057 dB

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

Peak H-field in A/m

Grid 1 <b>0.164</b>	Grid 2 <b>0.120</b>	Grid 3 <b>0.071</b>
Grid 4 <b>0.179</b>	Grid 5 <b>0.138</b>	Grid 6 <b>0.087</b>
Grid 7 <b>0.181</b>	Grid 8 <b>0.140</b>	Grid 9 <b>0.089</b>

**CDMA-1900 ch1175/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 43.7 V/m

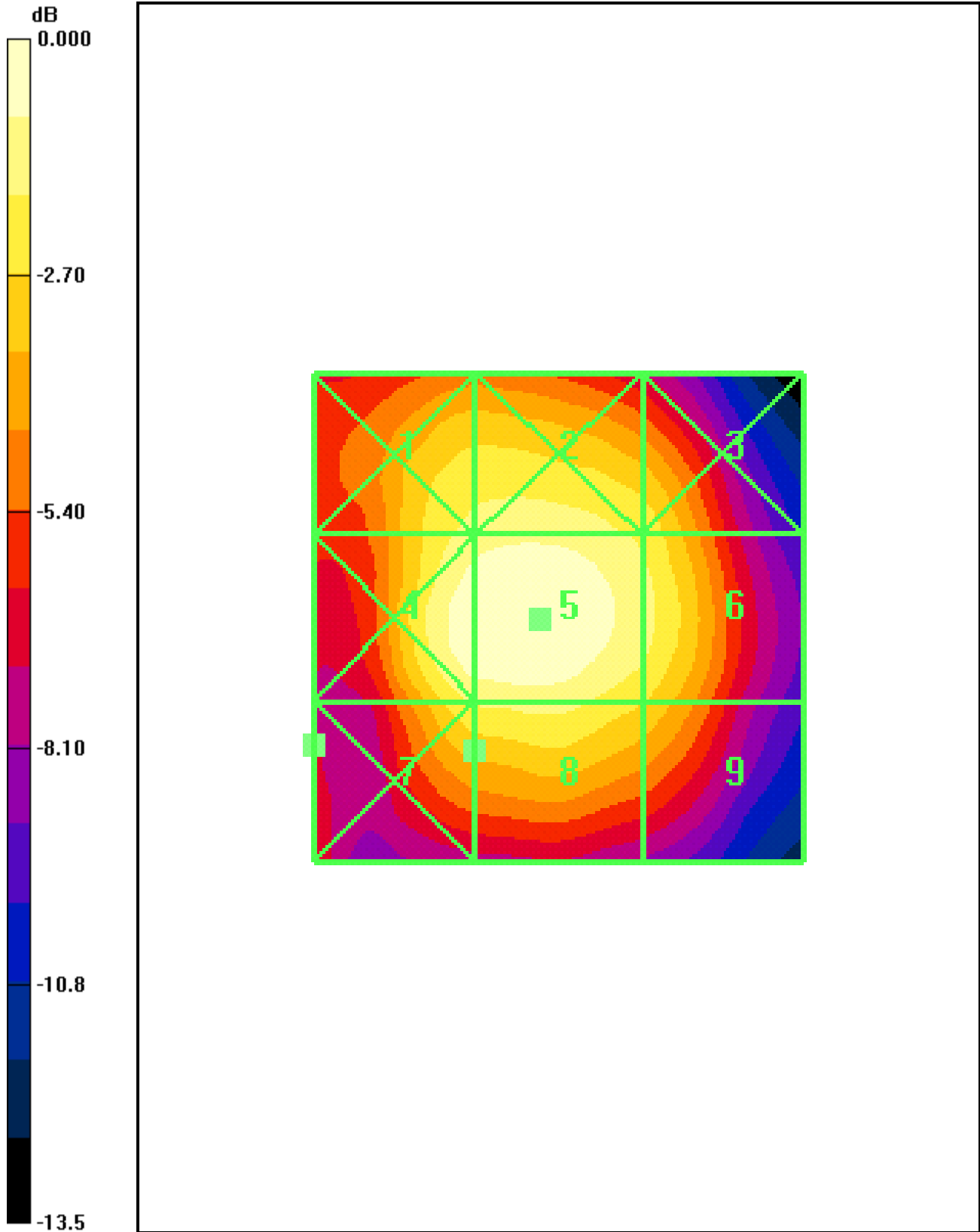
Probe Modulation Factor = 1.00

Reference Value = 45.3 V/m; Power Drift = -0.005 dB

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

Peak E-field in V/m

Grid 1 <b>40.6</b>	Grid 2 <b>41.2</b>	Grid 3 <b>39.2</b>
Grid 4 <b>43.3</b>	Grid 5 <b>43.7</b>	Grid 6 <b>40.5</b>
Grid 7 <b>39.9</b>	Grid 8 <b>40.5</b>	Grid 9 <b>37.8</b>



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**H-FIELD\_H\_Device, Thunder\_R2D2 #5447 CDMA-1900 EXT Battery BckLite ON OPEN 07-20-06**

Communication System: CDMA-1900; Frequency: 1908.75 MHz; Duty Cycle: 1:1

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

Phantom section: H Device Section Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6123 Probe: ER3DV6 - SN2282; ConvF(1, 1, 1); Calibrated: 9/2/2004 Calibrated: 10/21/2005
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn530; Calibrated: 1/16/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**CDMA-1900 ch1175/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.184 A/m

Probe Modulation Factor = 1.00

Reference Value = 0.138 A/m; Power Drift = -0.071 dB

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

Peak H-field in A/m

Grid 1 <b>0.214</b>	Grid 2 <b>0.157</b>	Grid 3 <b>0.094</b>
Grid 4 <b>0.226</b>	Grid 5 <b>0.180</b>	Grid 6 <b>0.111</b>
Grid 7 <b>0.231</b>	Grid 8 <b>0.184</b>	Grid 9 <b>0.114</b>

**CDMA-1900 ch1175/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 39.2 V/m

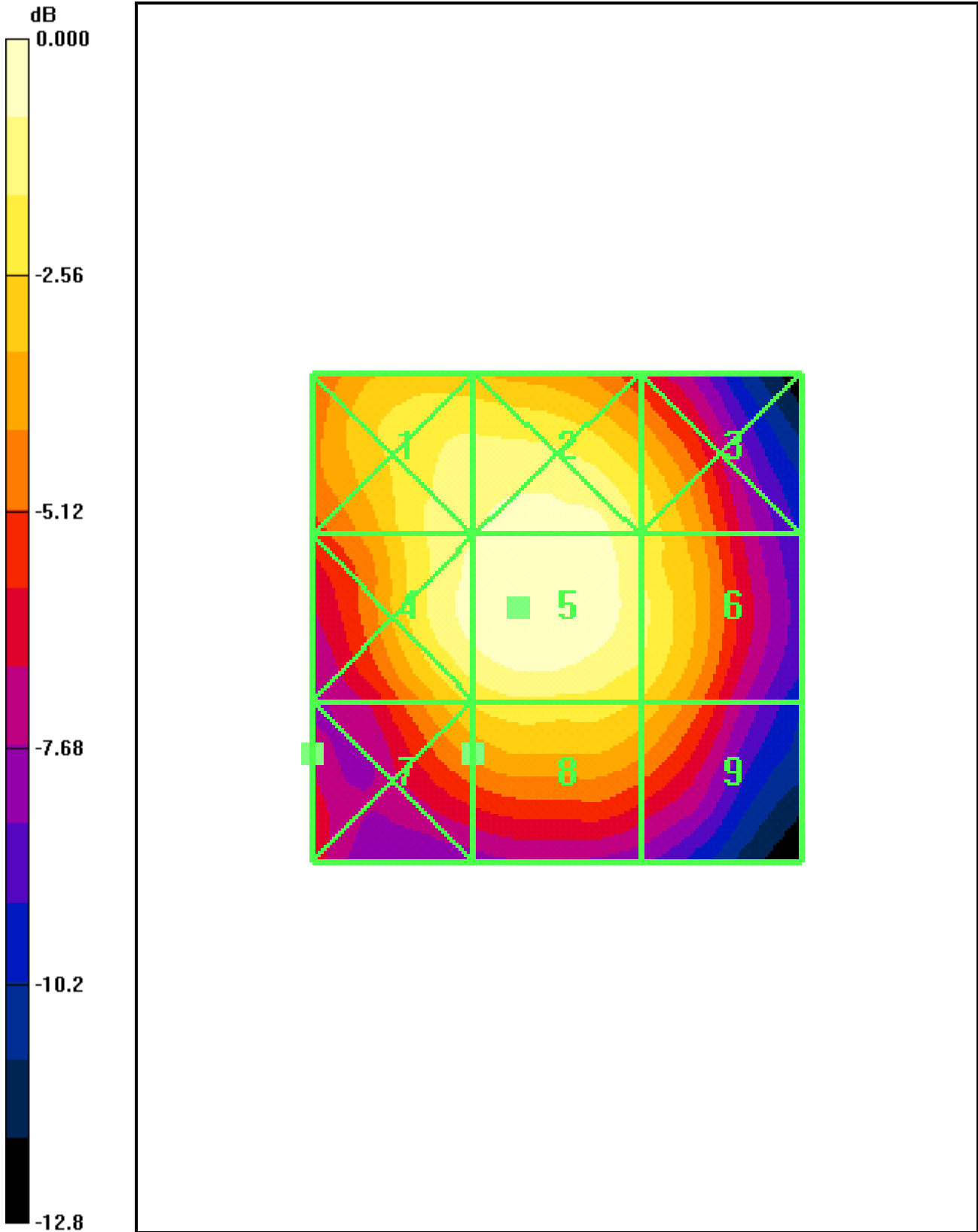
Probe Modulation Factor = 1.00

Reference Value = 40.4 V/m; Power Drift = -0.102 dB

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

Peak E-field in V/m

Grid 1 <b>37.3</b>	Grid 2 <b>38.3</b>	Grid 3 <b>35.6</b>
Grid 4 <b>38.3</b>	Grid 5 <b>39.2</b>	Grid 6 <b>36.3</b>
Grid 7 <b>34.4</b>	Grid 8 <b>35.5</b>	Grid 9 <b>33.9</b>



0 dB = 0.231A/m



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**H-FIELD\_H\_Device, Thunder\_R2D2 #5447 CDMA-1900 EXT Battery BckLite OFF OPEN 07-20-06**

Communication System: CDMA-1900; Frequency: 1908.75 MHz; Duty Cycle: 1:1

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

Phantom section: H Device Section Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6123 Probe: ER3DV6 - SN2282; ConvF(1, 1, 1); Calibrated: 9/2/2004 Calibrated: 10/21/2005
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn530; Calibrated: 1/16/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**CDMA-1900 ch1175/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.180 A/m

Probe Modulation Factor = 1.00

Reference Value = 0.135 A/m; Power Drift = -0.073 dB

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

Peak H-field in A/m

Grid 1 <b>0.212</b>	Grid 2 <b>0.157</b>	Grid 3 <b>0.093</b>
Grid 4 <b>0.231</b>	Grid 5 <b>0.177</b>	Grid 6 <b>0.109</b>
Grid 7 <b>0.237</b>	Grid 8 <b>0.180</b>	Grid 9 <b>0.113</b>

**CDMA-1900 ch1175/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 39.7 V/m

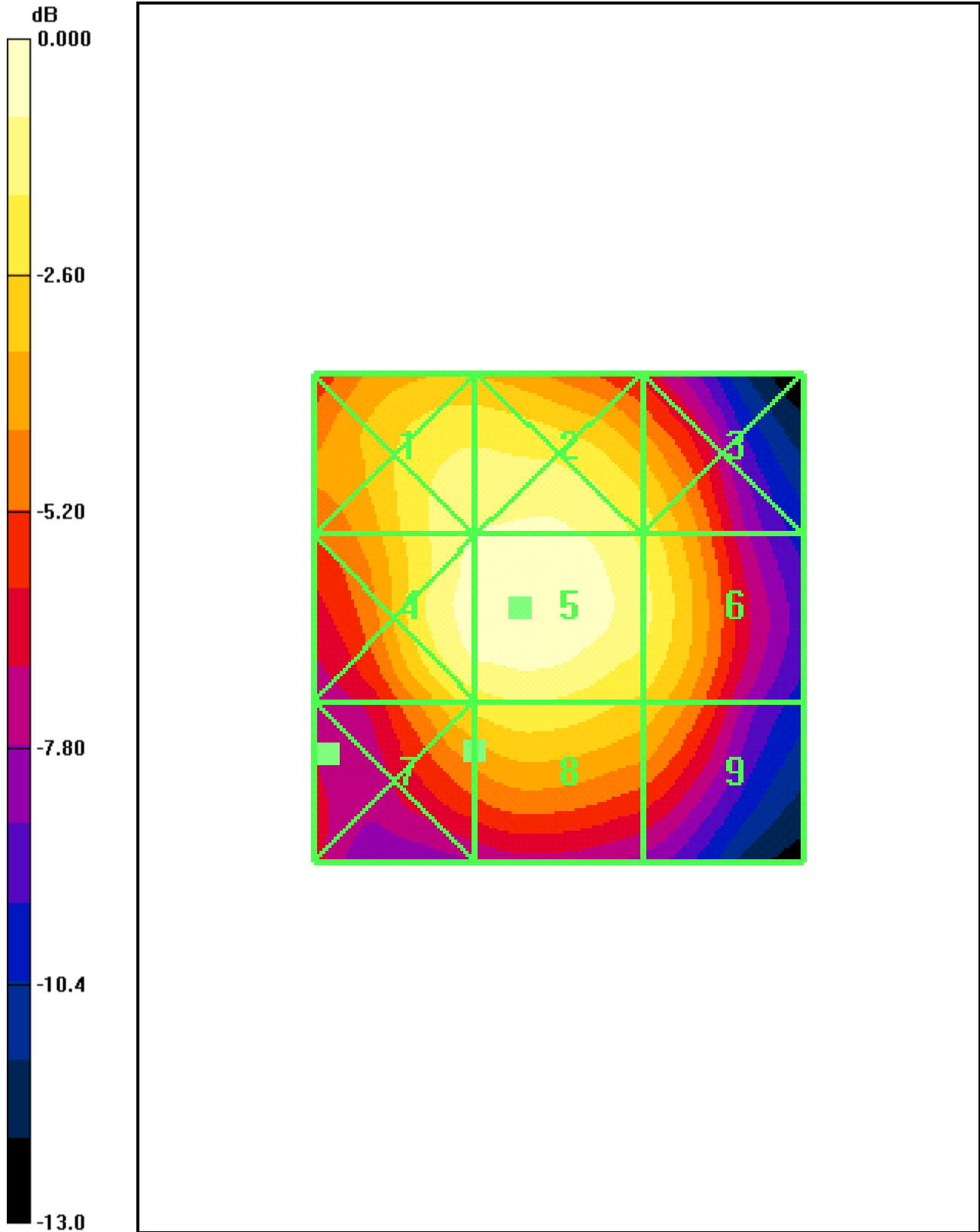
Probe Modulation Factor = 1.00

Reference Value = 41.7 V/m; Power Drift = 0.034 dB

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

Peak E-field in V/m

Grid 1 <b>37.9</b>	Grid 2 <b>38.3</b>	Grid 3 <b>35.5</b>
Grid 4 <b>38.9</b>	Grid 5 <b>39.7</b>	Grid 6 <b>36.6</b>
Grid 7 <b>35.1</b>	Grid 8 <b>36.1</b>	Grid 9 <b>34.0</b>



0 dB = 0.237A/m

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**H-FIELD\_H\_Device, Thunder\_R2D2 #5447 CDMA-1900 ST Battery BckLite OFF OPEN 07-20-06**

Communication System: CDMA-1900; Frequency: 1908.75 MHz; Duty Cycle: 1:1

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

Phantom section: H Device Section Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6123 Probe: ER3DV6 - SN2282; ConvF(1, 1, 1); Calibrated: 9/2/2004 Calibrated: 10/21/2005
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn530; Calibrated: 1/16/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**CDMA-1900 ch1175/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.133 A/m

Probe Modulation Factor = 1.00

Reference Value = 0.099 A/m; Power Drift = 0.021 dB

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

Peak H-field in A/m

Grid 1 <b>0.160</b>	Grid 2 <b>0.115</b>	Grid 3 <b>0.069</b>
Grid 4 <b>0.167</b>	Grid 5 <b>0.131</b>	Grid 6 <b>0.080</b>
Grid 7 <b>0.174</b>	Grid 8 <b>0.133</b>	Grid 9 <b>0.083</b>

**CDMA-1900 ch1175/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 43.6 V/m

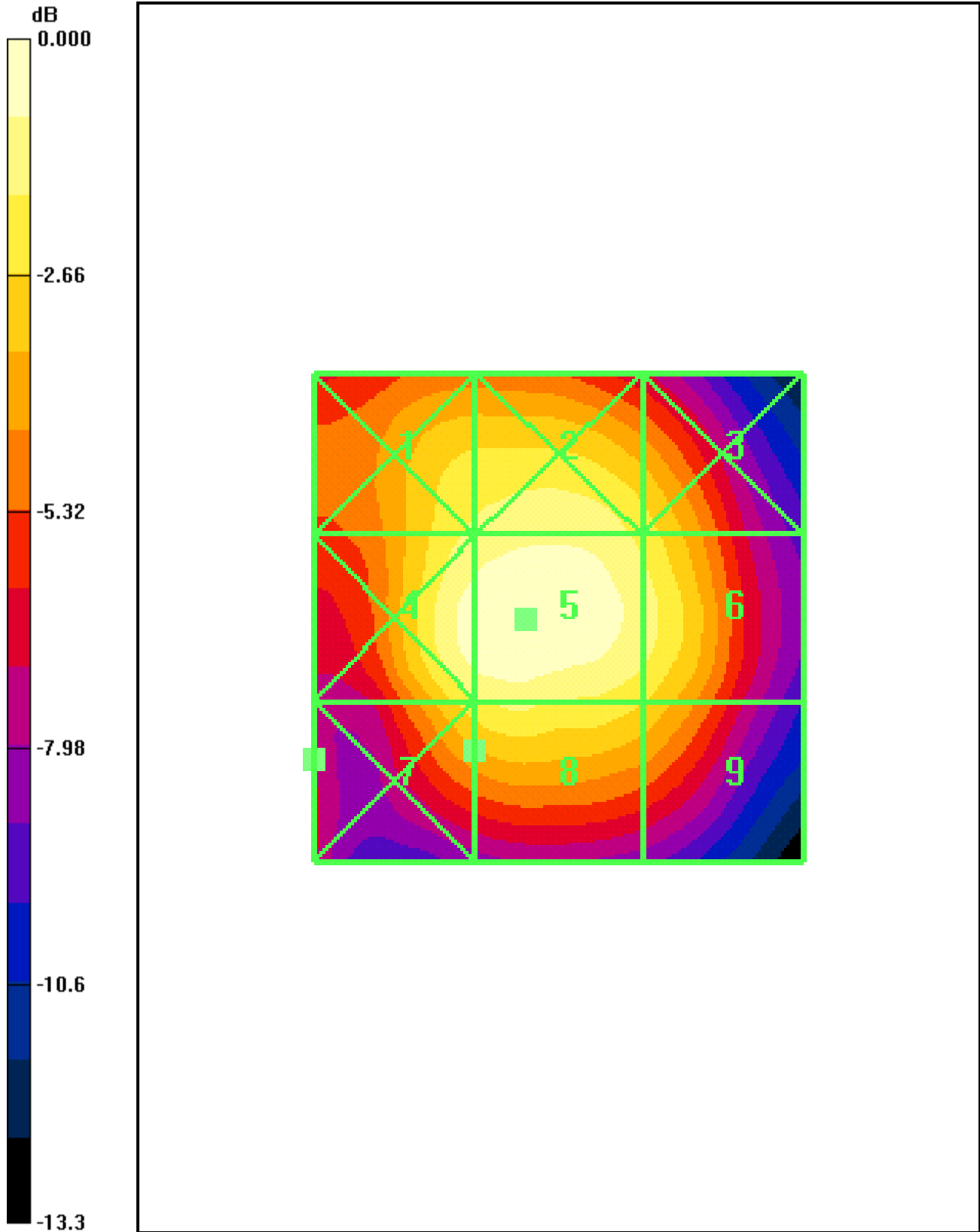
Probe Modulation Factor = 1.00

Reference Value = 46.6 V/m; Power Drift = -0.084 dB

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

Peak E-field in V/m

Grid 1 <b>40.2</b>	Grid 2 <b>41.2</b>	Grid 3 <b>39.0</b>
Grid 4 <b>42.8</b>	Grid 5 <b>43.6</b>	Grid 6 <b>40.8</b>
Grid 7 <b>39.3</b>	Grid 8 <b>40.3</b>	Grid 9 <b>38.0</b>



Test Laboratory: Kyocera Wireless Corp.

**E-FIELD\_E\_Device, Thunder\_R2D2 #5447 CDMA-1900, ST Battery BckLite 360 Degrees ON OPEN, 07-19-06**

Communication System: CDMA-1900; Frequency: 1908.75 MHz; Duty Cycle: 1:1

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

Phantom section: E Device Section Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2282 Probe: H3DV6 - SN6123; ConvF(1, 1, 1); Calibrated: 10/21/2005 Calibrated: 9/2/2004
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn530; Calibrated: 1/16/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**CDMA-1900 ch1175 360 degrees/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 43.9 V/m

Probe Modulation Factor = 1.00

Reference Value = 46.1 V/m; Power Drift = 0.084 dB

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

Peak E-field in V/m

Grid 1 40.8	Grid 2 42.0	Grid 3 39.0
Grid 4 43.2	Grid 5 43.9	Grid 6 40.4
Grid 7 39.2	Grid 8 40.3	Grid 9 37.6

**CDMA-1900 ch1175 360 degrees/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.140 A/m

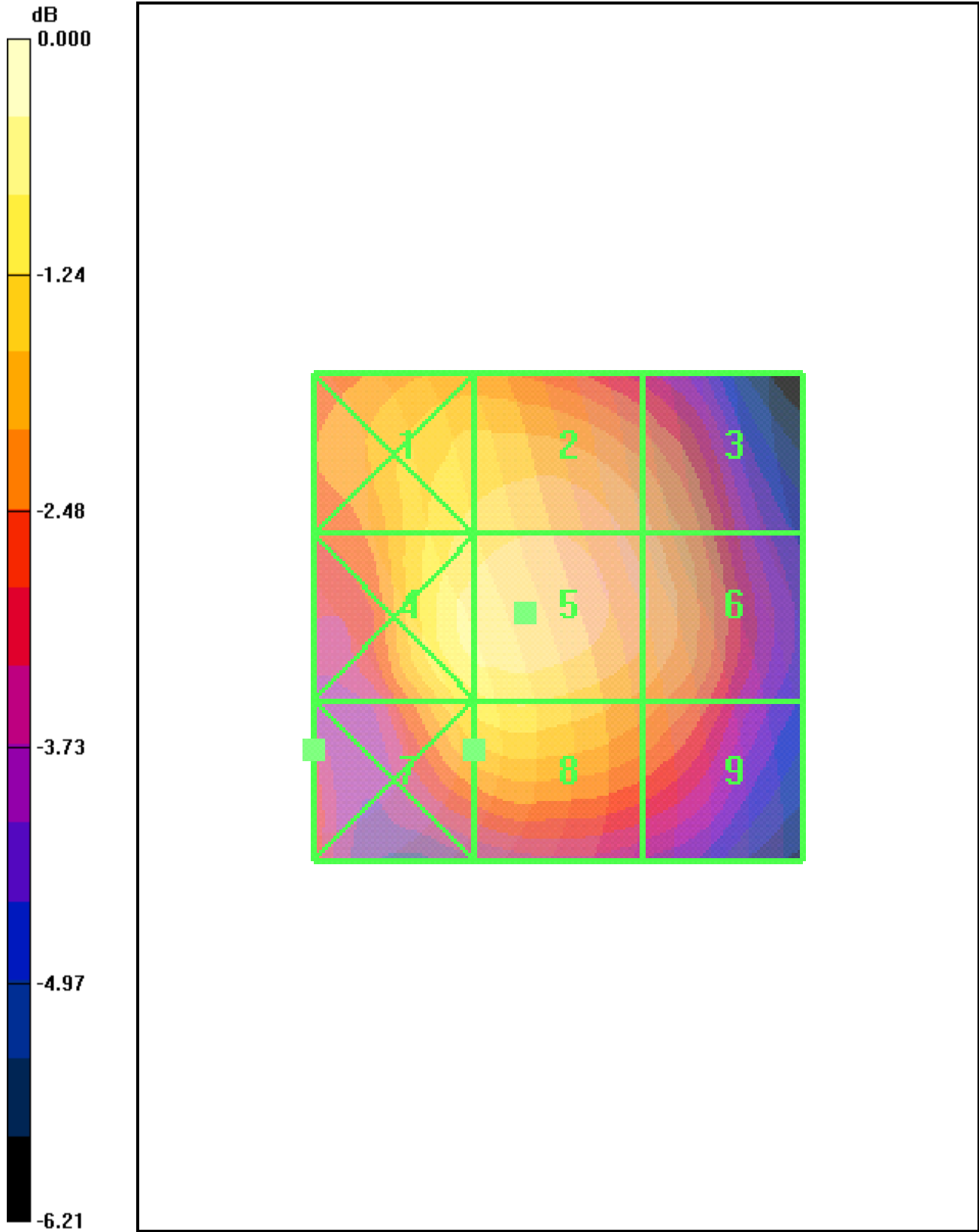
Probe Modulation Factor = 1.00

Reference Value = 0.103 A/m; Power Drift = -0.042 dB

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

Peak H-field in A/m

Grid 1 0.158	Grid 2 0.119	Grid 3 0.073
Grid 4 0.173	Grid 5 0.137	Grid 6 0.086
Grid 7 0.176	Grid 8 0.140	Grid 9 0.089



0 dB = 43.9V/m

