

Test Laboratory: Compliance Certification Services

Cell Band_HAC (Semco)

DUT: Apple; Type: N/A; Serial: N/A

Communication System: CDMA Cell Band; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/16/2010

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn427; Calibrated: 7/21/2010

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 100x

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - L-ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 65.5 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 70.2 V/m; Power Drift = 0.018 dB

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

Peak E-field in V/m

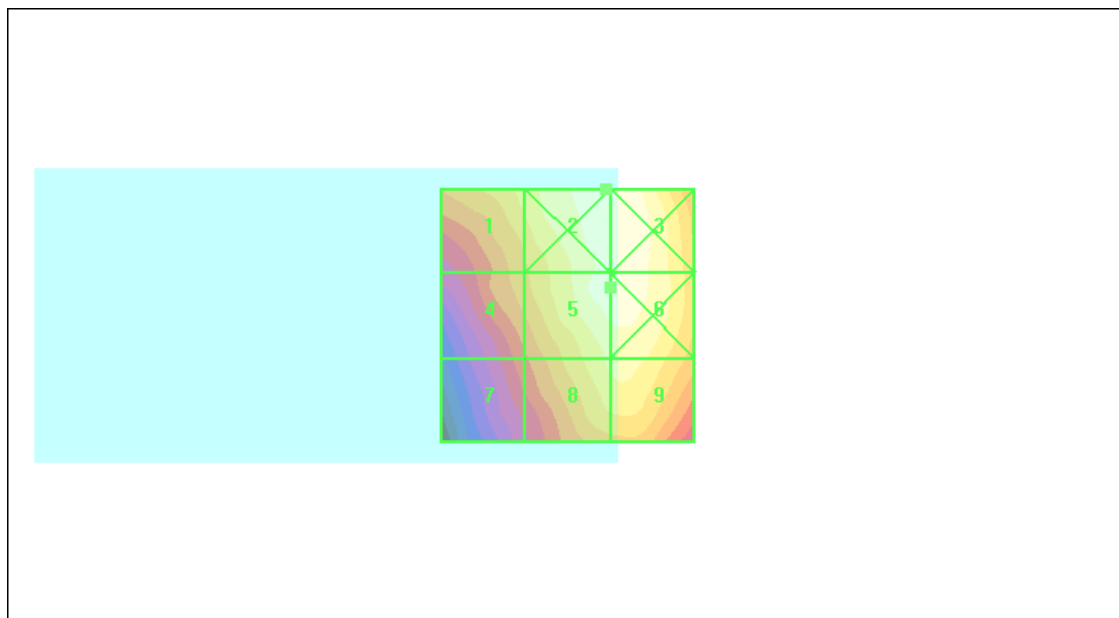
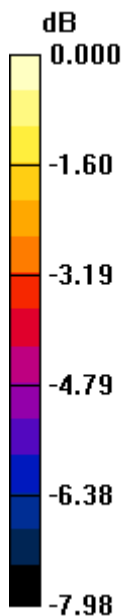
Grid 1 57.4 M4	Grid 2 67.2 M4	Grid 3 67.1 M4
Grid 4 52.0 M4	Grid 5 65.5 M4	Grid 6 65.8 M4
Grid 7 46.1 M4	Grid 8 60.5 M4	Grid 9 61.4 M4

Cursor:

Total = 67.2 V/m

E Category: M4

Location: -7.5, -25, 8.7 mm



0 dB = 67.2V/m

Test Laboratory: Compliance Certification Services

Cell Band_HAC (Semco)

DUT: Apple; Type: N/A; Serial: N/A

Communication System: CDMA Cell Band; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/16/2010

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn427; Calibrated: 7/21/2010

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 100x

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - M-ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 70.1 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 75.7 V/m; Power Drift = 0.069 dB

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

Peak E-field in V/m

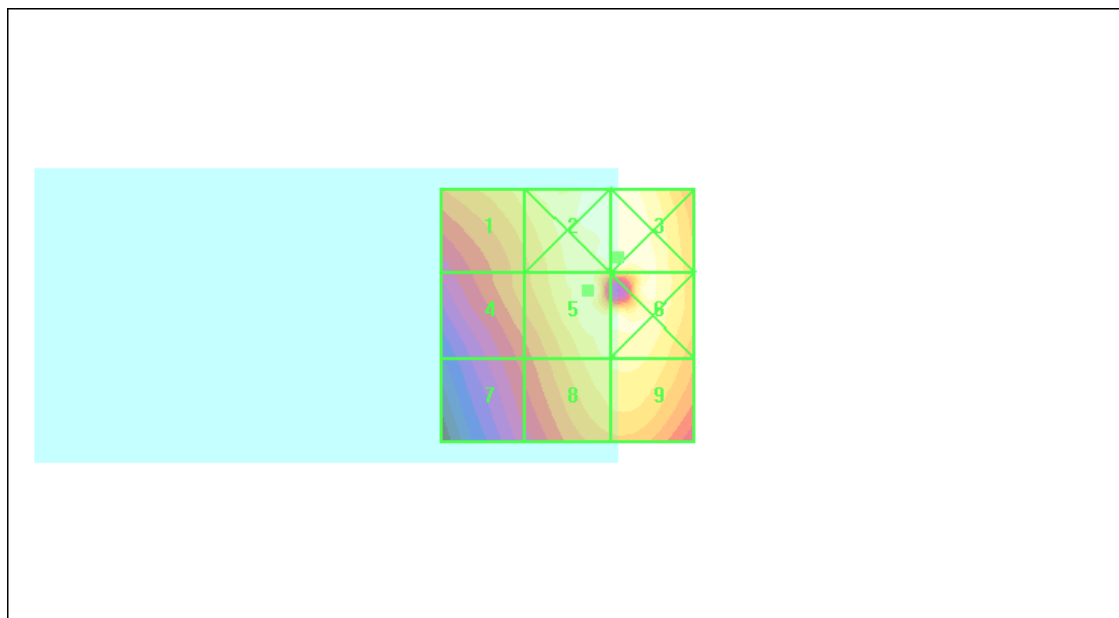
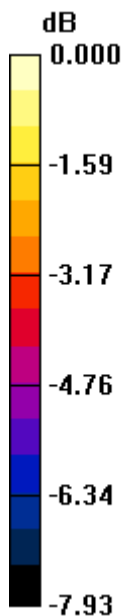
Grid 1 63.2 M4	Grid 2 72.7 M4	Grid 3 73.4 M4
Grid 4 56.5 M4	Grid 5 70.1 M4	Grid 6 71.1 M4
Grid 7 49.6 M4	Grid 8 65.7 M4	Grid 9 66.4 M4

Cursor:

Total = 73.4 V/m

E Category: M4

Location: -10, -11.5, 8.7 mm



0 dB = 73.4V/m

Test Laboratory: Compliance Certification Services

Cell Band_HAC (Semco)

DUT: Apple; Type: N/A; Serial: N/A

Communication System: CDMA Cell Band; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/16/2010

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn427; Calibrated: 7/21/2010

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 100x

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - H-ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 73.1 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 76.2 V/m; Power Drift = 0.044 dB

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

Peak E-field in V/m

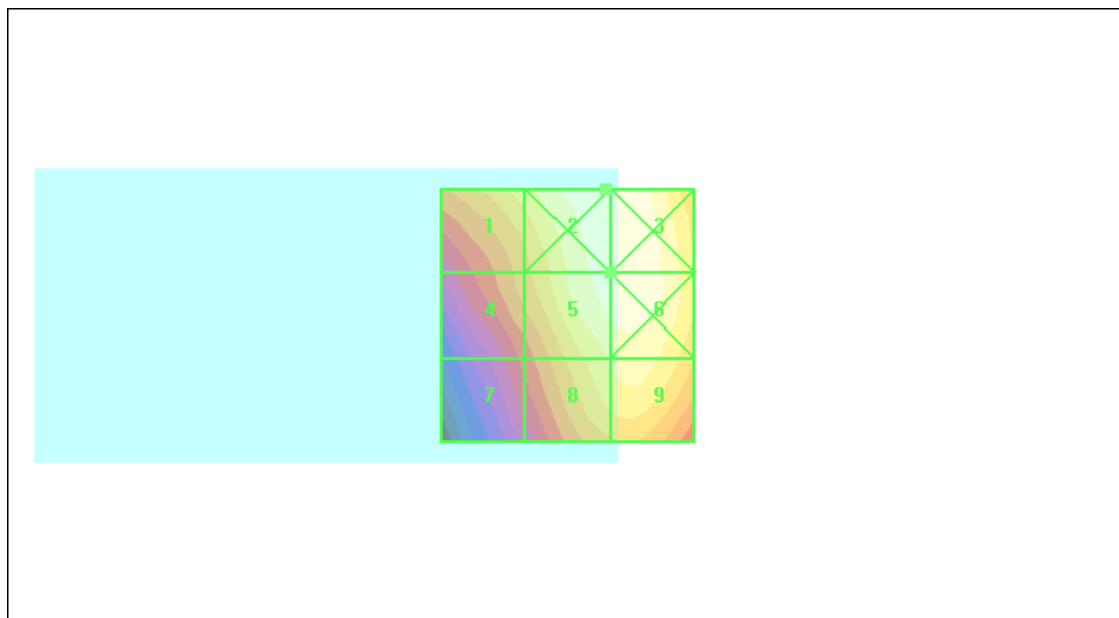
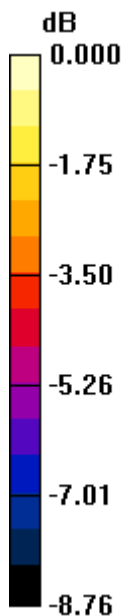
Grid 1 64.5 M4	Grid 2 75.5 M4	Grid 3 75.4 M4
Grid 4 56.2 M4	Grid 5 73.1 M4	Grid 6 74.3 M4
Grid 7 48.5 M4	Grid 8 66.8 M4	Grid 9 68.4 M4

Cursor:

Total = 75.5 V/m

E Category: M4

Location: -7.5, -25, 8.7 mm



0 dB = 75.5V/m

Test Laboratory: Compliance Certification Services

PCS Band_HAC (Semco)

DUT: Apple; Type: N/A; Serial: N/A

Communication System: CDMA PCS Band; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/16/2010

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn427; Calibrated: 7/21/2010

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 100x

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - L-ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 42.8 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 36.9 V/m; Power Drift = 0.106 dB

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

Peak E-field in V/m

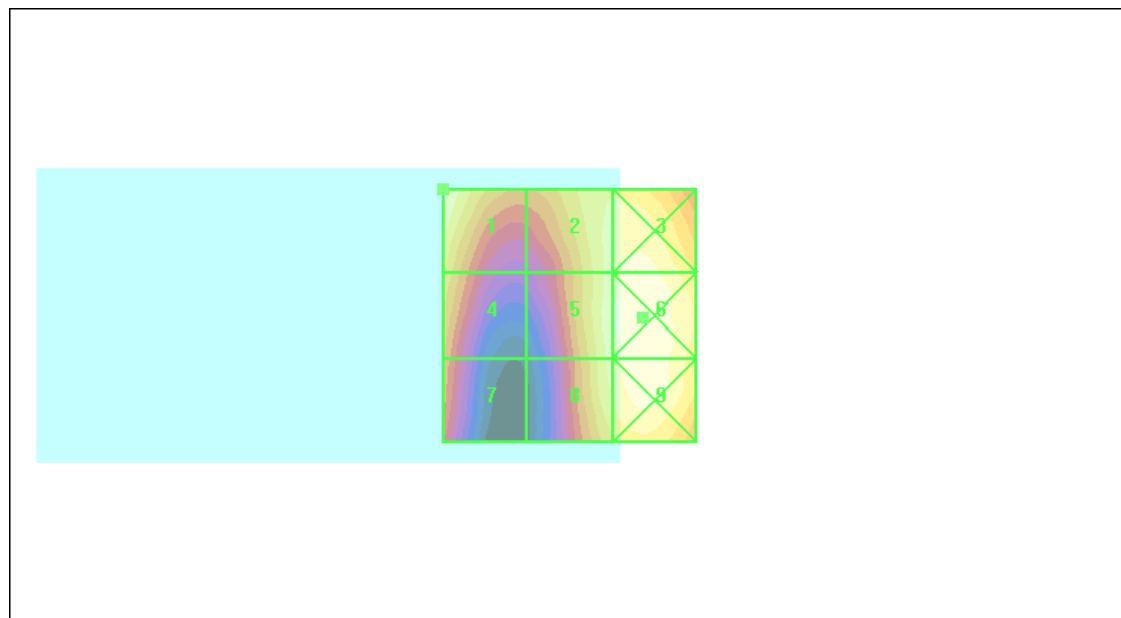
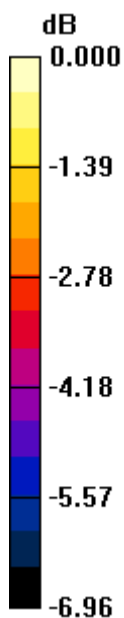
Grid 1 42.8 M4	Grid 2 40.5 M4	Grid 3 42.2 M4
Grid 4 37.5 M4	Grid 5 41.1 M4	Grid 6 43.6 M4
Grid 7 33.4 M4	Grid 8 40.3 M4	Grid 9 42.7 M4

Cursor:

Total = 43.6 V/m

E Category: M4

Location: -14.5, 0.5, 8.7 mm



0 dB = 43.6V/m

Test Laboratory: Compliance Certification Services

PCS Band_HAC (Semco)

DUT: Apple; Type: N/A; Serial: N/A

Communication System: CDMA PCS Band; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/16/2010

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn427; Calibrated: 7/21/2010

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 100x

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - M-ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 41.1 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 38.4 V/m; Power Drift = 0.011 dB

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

Peak E-field in V/m

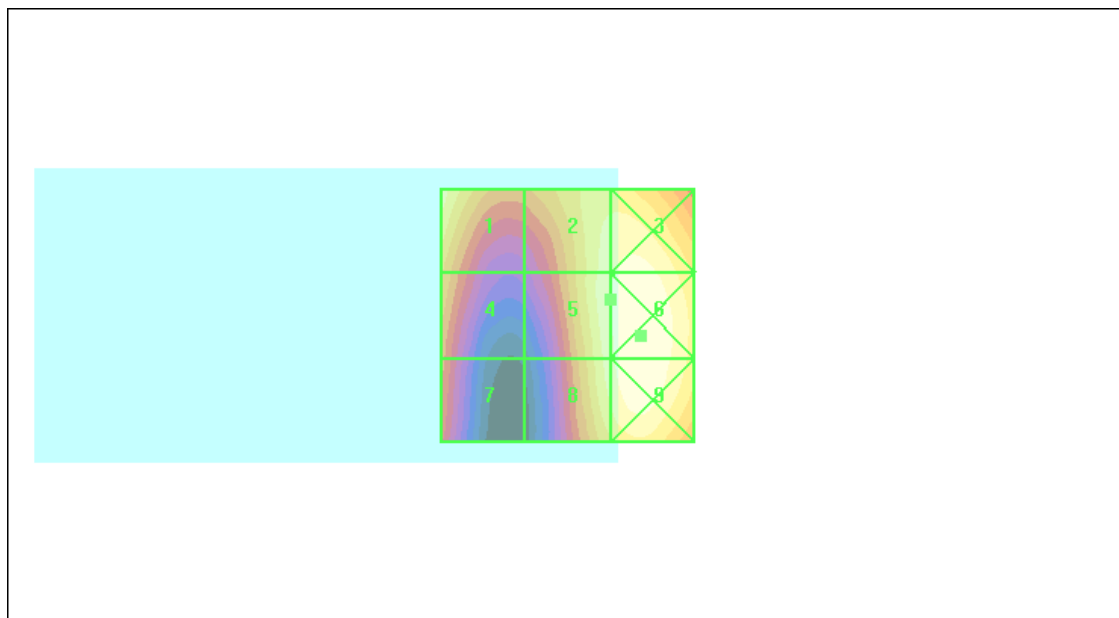
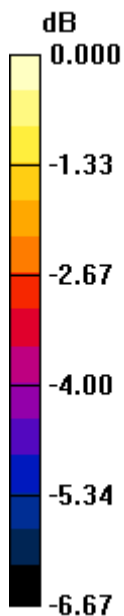
Grid 1 40.5 M4	Grid 2 40.5 M4	Grid 3 41.9 M4
Grid 4 35.7 M4	Grid 5 41.1 M4	Grid 6 43.1 M4
Grid 7 32.7 M4	Grid 8 40.3 M4	Grid 9 42.9 M4

Cursor:

Total = 43.1 V/m

E Category: M4

Location: -14.5, 4, 8.7 mm



0 dB = 43.1V/m

Test Laboratory: Compliance Certification Services

PCS Band_HAC (Semco)

DUT: Apple; Type: N/A; Serial: N/A

Communication System: CDMA PCS Band; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/16/2010

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn427; Calibrated: 7/21/2010

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 100x

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - H-ch/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

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 39.4 V/m; Power Drift = 0.046 dB

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

Peak E-field in V/m

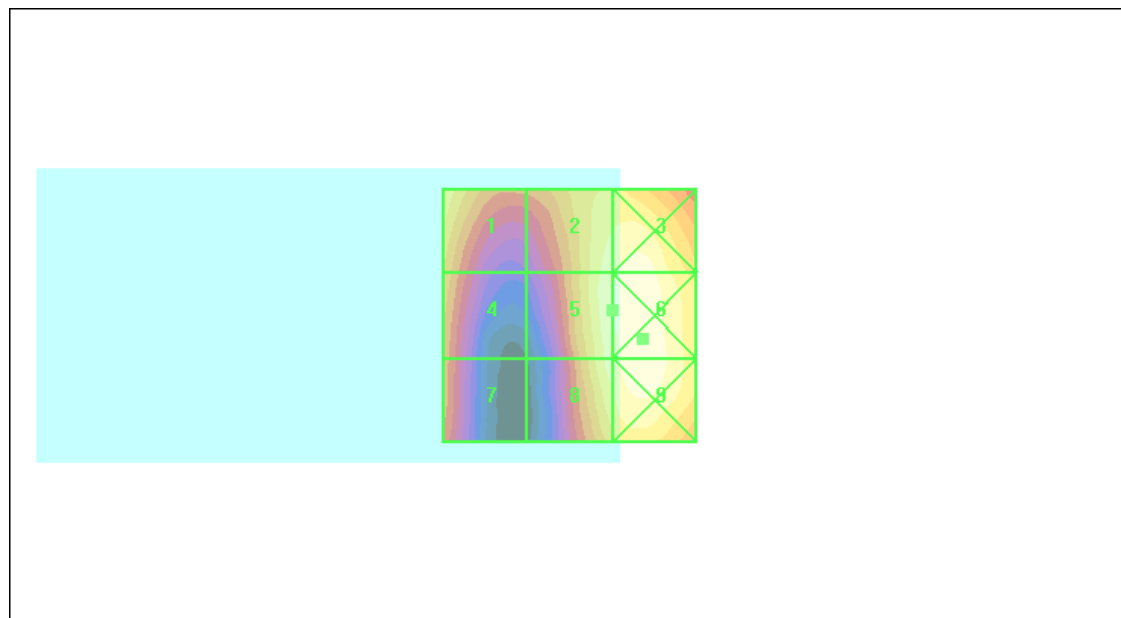
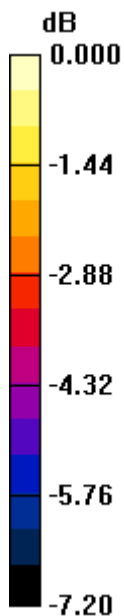
Grid 1 41.4 M4	Grid 2 43.1 M4	Grid 3 44.9 M4
Grid 4 37.1 M4	Grid 5 43.9 M4	Grid 6 46.1 M4
Grid 7 34.6 M4	Grid 8 42.7 M4	Grid 9 45.4 M4

Cursor:

Total = 46.1 V/m

E Category: M4

Location: -14.5, 4.5, 8.7 mm



0 dB = 46.1V/m

Test Laboratory: Compliance Certification Services

Cell Band_HAC (Semco)

DUT: Apple; Type: N/A; Serial: N/A

Communication System: CDMA Cell Band; Frequency: 824.7 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 2/16/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - L-ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.114 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.107 A/m; Power Drift = 0.047 dB

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

Peak H-field in A/m

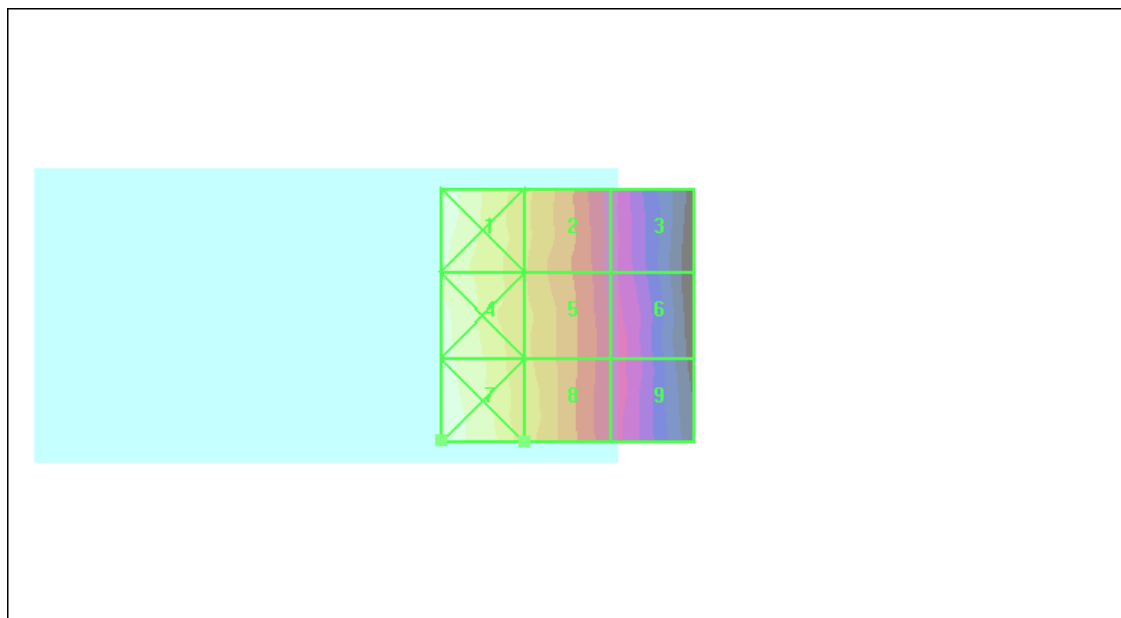
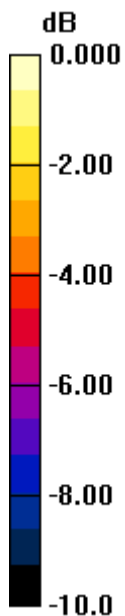
Grid 1 0.147 M4	Grid 2 0.113 M4	Grid 3 0.079 M4
Grid 4 0.144 M4	Grid 5 0.112 M4	Grid 6 0.082 M4
Grid 7 0.149 M4	Grid 8 0.114 M4	Grid 9 0.082 M4

Cursor:

Total = 0.149 A/m

H Category: M4

Location: 25, 24.5, 8.7 mm



0 dB = 0.149A/m

Test Laboratory: Compliance Certification Services

Cell Band_HAC (Semco)

DUT: Apple; Type: N/A; Serial: N/A

Communication System: CDMA Cell Band; Frequency: 836.52 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 2/16/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - M-ch/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

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.120 A/m; Power Drift = -0.036 dB

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

Peak H-field in A/m

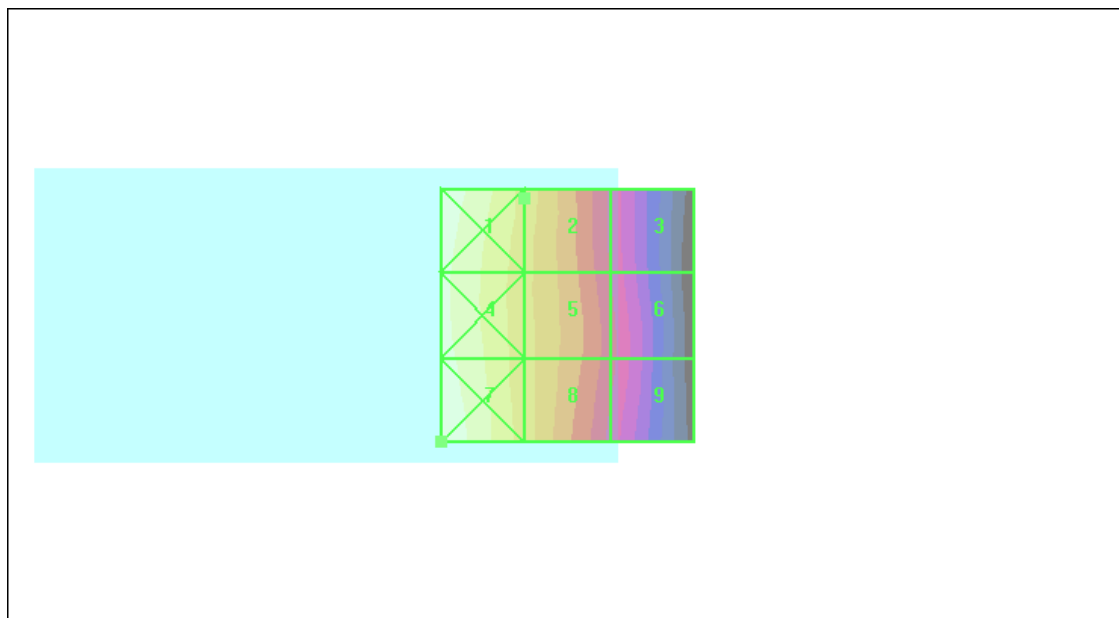
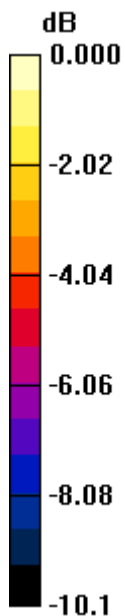
Grid 1 0.163 M4	Grid 2 0.125 M4	Grid 3 0.088 M4
Grid 4 0.157 M4	Grid 5 0.123 M4	Grid 6 0.091 M4
Grid 7 0.163 M4	Grid 8 0.124 M4	Grid 9 0.090 M4

Cursor:

Total = 0.163 A/m

H Category: M4

Location: 25, 25, 8.7 mm



0 dB = 0.163A/m

Test Laboratory: Compliance Certification Services

Cell Band_HAC (Semco)

DUT: Apple; Type: N/A; Serial: N/A

Communication System: CDMA Cell Band; Frequency: 848.31 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 2/16/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H-ch/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

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.134 A/m; Power Drift = 0.039 dB

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

Peak H-field in A/m

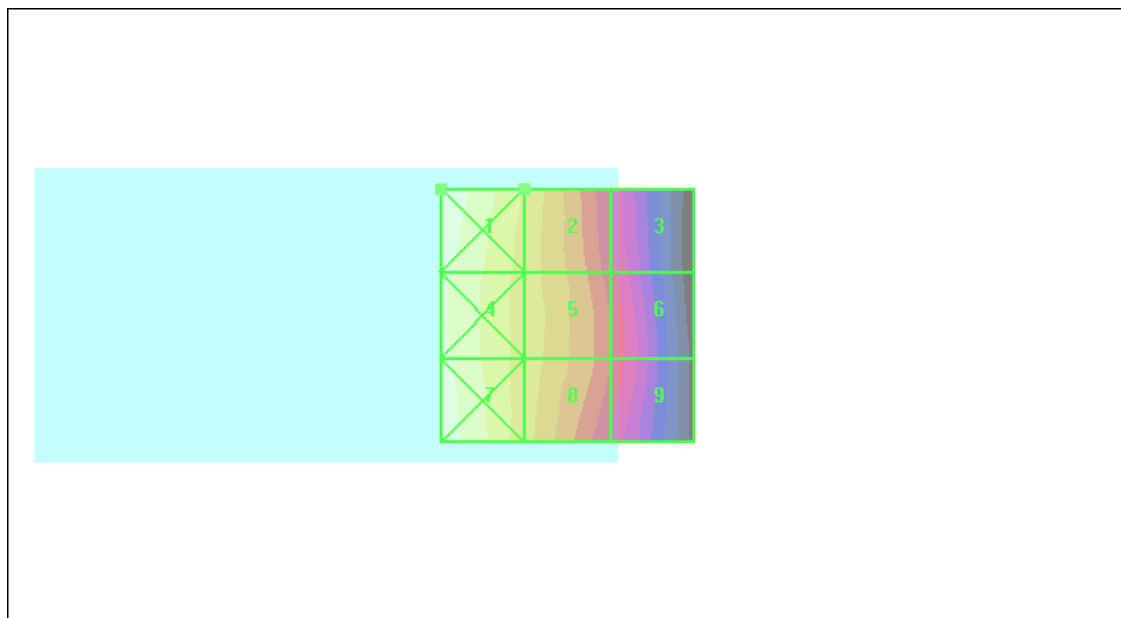
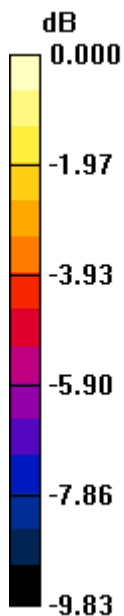
Grid 1 0.169 M4	Grid 2 0.133 M4	Grid 3 0.095 M4
Grid 4 0.162 M4	Grid 5 0.131 M4	Grid 6 0.100 M4
Grid 7 0.165 M4	Grid 8 0.130 M4	Grid 9 0.100 M4

Cursor:

Total = 0.169 A/m

H Category: M4

Location: 25, -25, 8.7 mm



0 dB = 0.169A/m

Test Laboratory: Compliance Certification Services

PCS Band_HAC (Semco)

DUT: Apple; Type: N/A; Serial: N/A

Communication System: CDMA PCS Band; Frequency: 1851.25 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 2/16/2010

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn427; Calibrated: 7/21/2010

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 100x

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - L-ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.128 A/m

Probe Modulation Factor = 0.990

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.119 A/m; Power Drift = -0.114 dB

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

Peak H-field in A/m

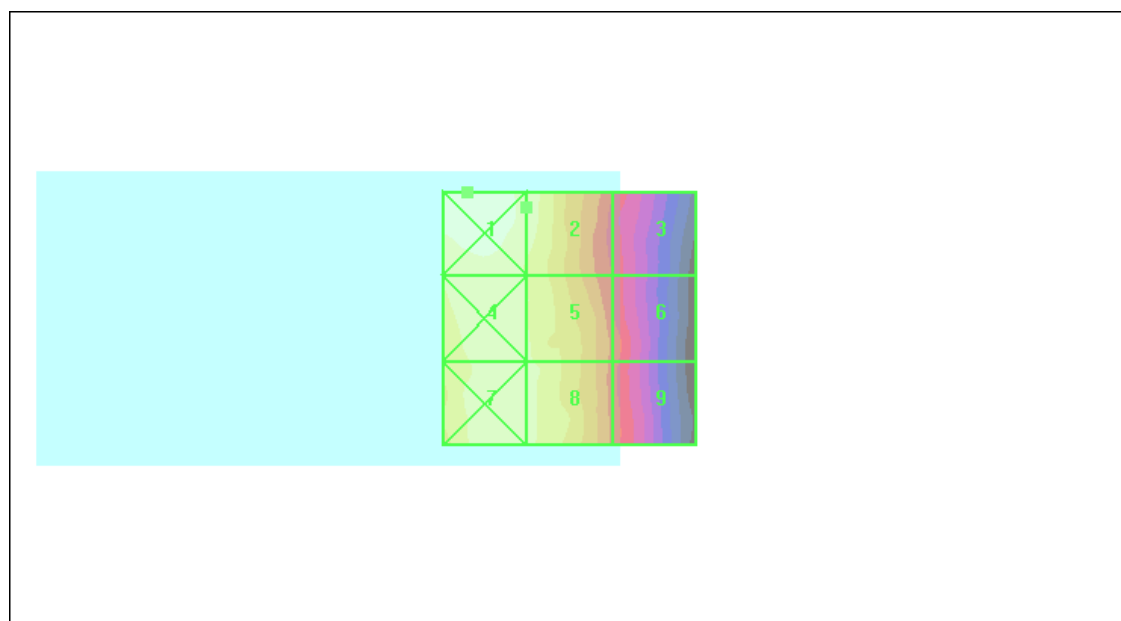
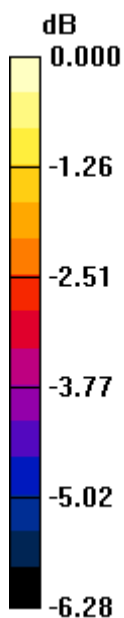
Grid 1 0.137 M4	Grid 2 0.128 M4	Grid 3 0.098 M4
Grid 4 0.129 M4	Grid 5 0.126 M4	Grid 6 0.102 M4
Grid 7 0.130 M4	Grid 8 0.126 M4	Grid 9 0.101 M4

Cursor:

Total = 0.137 A/m

H Category: M4

Location: 20, -25, 8.7 mm



0 dB = 0.137A/m

Test Laboratory: Compliance Certification Services

PCS Band_HAC (Semco)

DUT: Apple; Type: N/A; Serial: N/A

Communication System: CDMA PCS Band; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 2/16/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - M-ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.131 A/m

Probe Modulation Factor = 0.990

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.127 A/m; Power Drift = 0.015 dB

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

Peak H-field in A/m

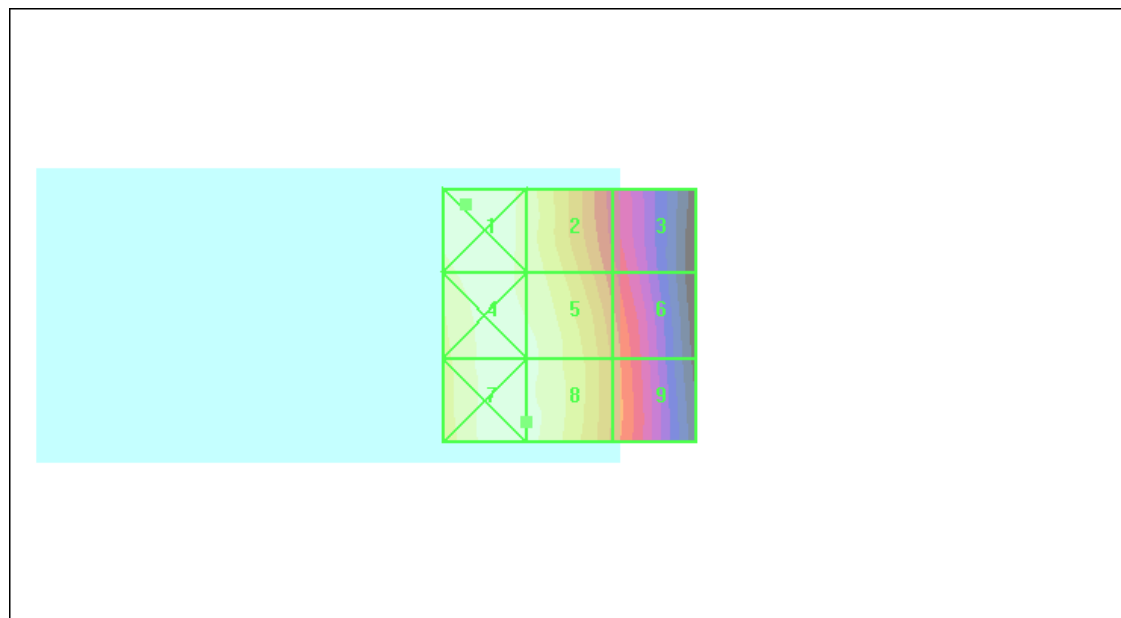
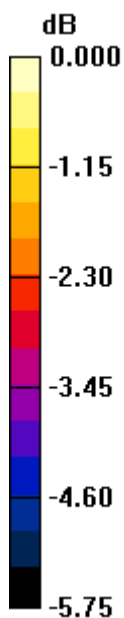
Grid 1 0.135 M4	Grid 2 0.127 M4	Grid 3 0.101 M4
Grid 4 0.131 M4	Grid 5 0.131 M4	Grid 6 0.107 M4
Grid 7 0.132 M4	Grid 8 0.131 M4	Grid 9 0.108 M4

Cursor:

Total = 0.135 A/m

H Category: M4

Location: 20.5, -22, 8.7 mm



0 dB = 0.135A/m

Test Laboratory: Compliance Certification Services

PCS Band_HAC (Semco)

DUT: Apple; Type: N/A; Serial: N/A

Communication System: CDMA PCS Band; Frequency: 1908.75 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 2/16/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 7/21/2010
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H-ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.139 A/m

Probe Modulation Factor = 0.990

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.135 A/m; Power Drift = 0.003 dB

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

Peak H-field in A/m

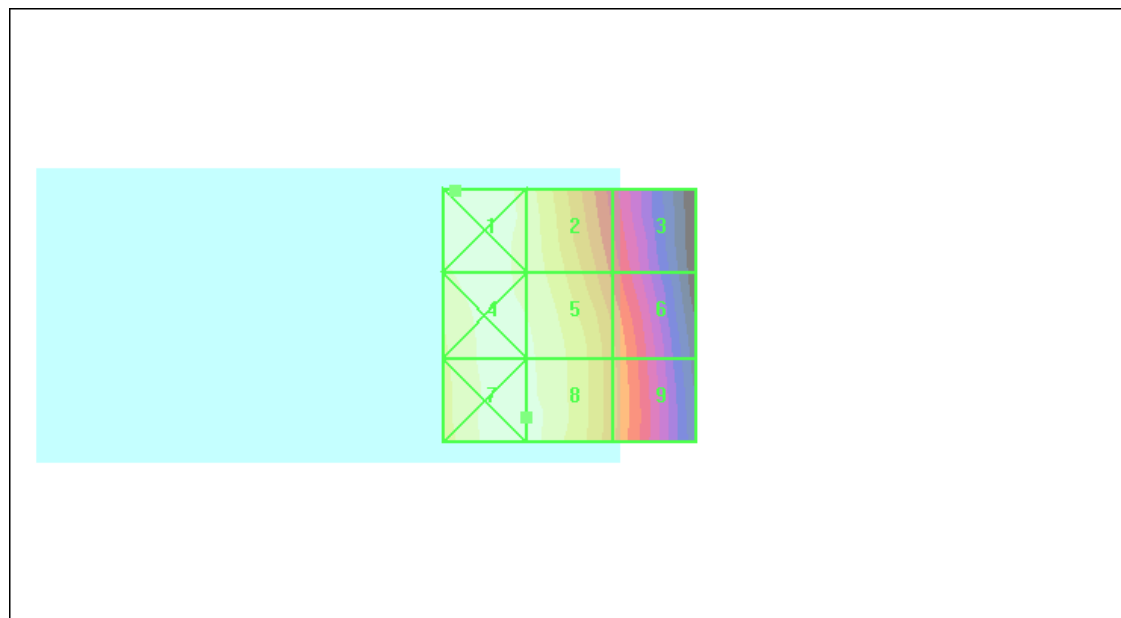
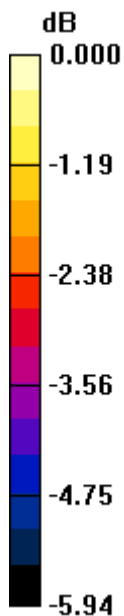
Grid 1 0.143 M4	Grid 2 0.134 M4	Grid 3 0.107 M4
Grid 4 0.139 M4	Grid 5 0.138 M4	Grid 6 0.115 M4
Grid 7 0.139 M4	Grid 8 0.139 M4	Grid 9 0.116 M4

Cursor:

Total = 0.143 A/m

H Category: M4

Location: 22.5, -24.5, 8.7 mm



0 dB = 0.143A/m