

Test Laboratory: Compliance Certification Services

Cell Band_HAC (Murata)

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 = 69.9 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 73.7 V/m; Power Drift = 0.071 dB

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

Peak E-field in V/m

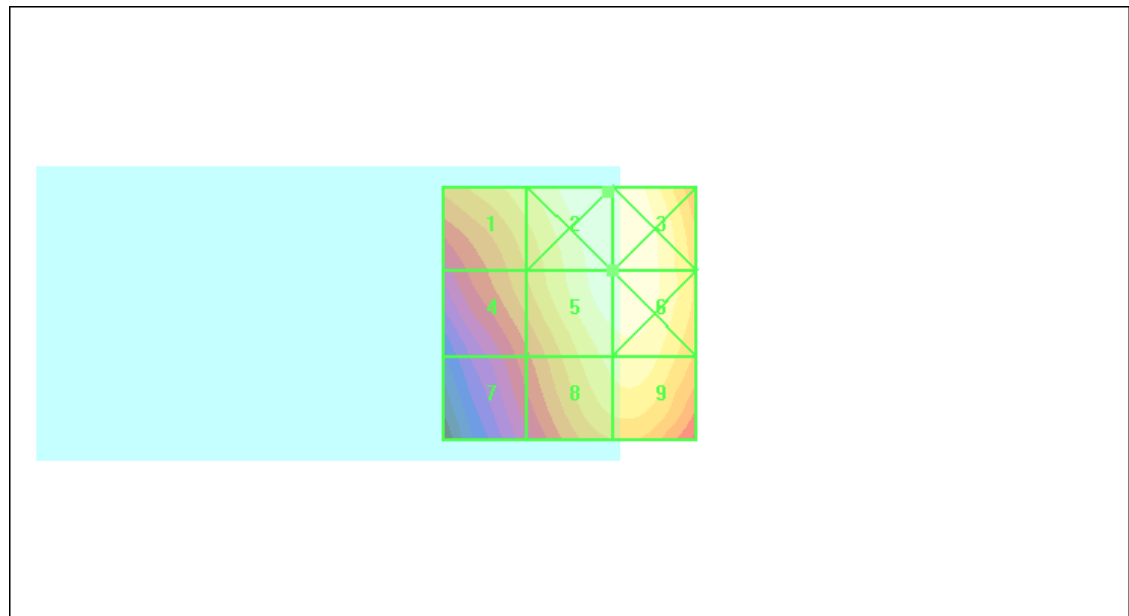
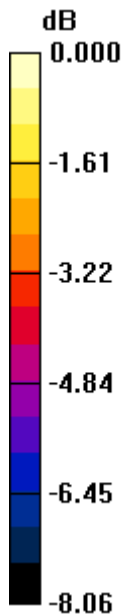
Grid 1 62.1 M4	Grid 2 71.0 M4	Grid 3 71.0 M4
Grid 4 55.5 M4	Grid 5 69.9 M4	Grid 6 70.4 M4
Grid 7 48.3 M4	Grid 8 64.4 M4	Grid 9 65.4 M4

Cursor:

Total = 71.0 V/m

E Category: M4

Location: -7.5, -24, 8.7 mm



0 dB = 71.0V/m

Test Laboratory: Compliance Certification Services

Cell Band_HAC (Murata)

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 = 72.6 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 77.0 V/m; Power Drift = -0.067 dB

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

Peak E-field in V/m

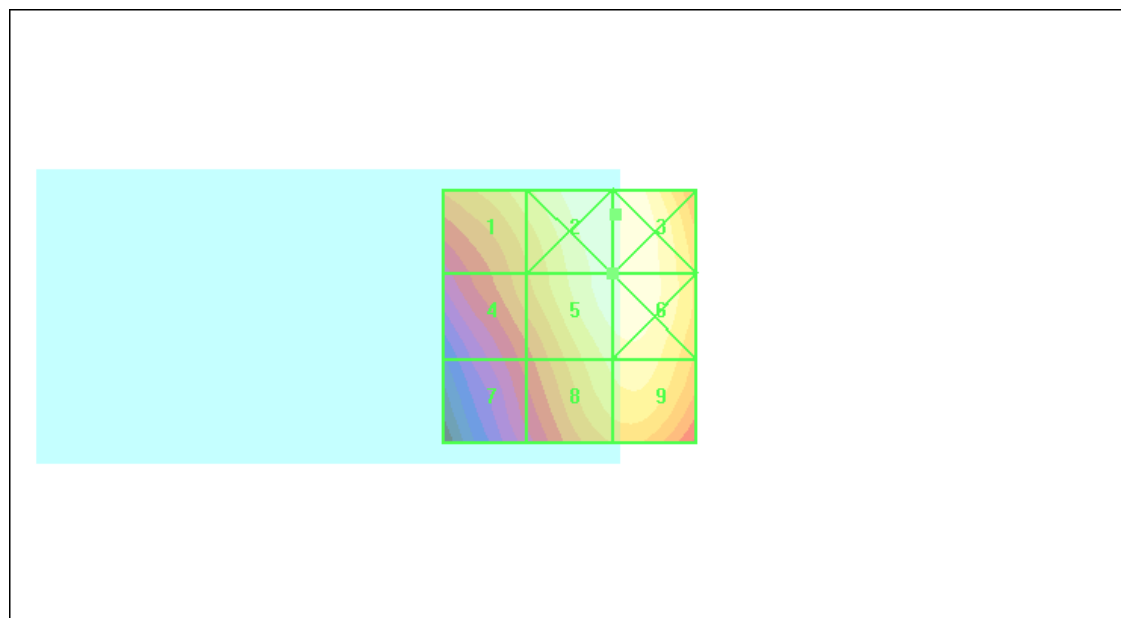
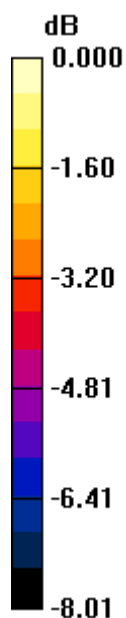
Grid 1 64.4 M4	Grid 2 74.0 M4	Grid 3 74.0 M4
Grid 4 57.4 M4	Grid 5 72.6 M4	Grid 6 73.2 M4
Grid 7 49.8 M4	Grid 8 66.8 M4	Grid 9 68.1 M4

Cursor:

Total = 74.0 V/m

E Category: M4

Location: -9, -20, 8.7 mm



0 dB = 74.0V/m

Test Laboratory: Compliance Certification Services

Cell Band_HAC (Murata)

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 = 76.9 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 78.3 V/m; Power Drift = -0.033 dB

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

Peak E-field in V/m

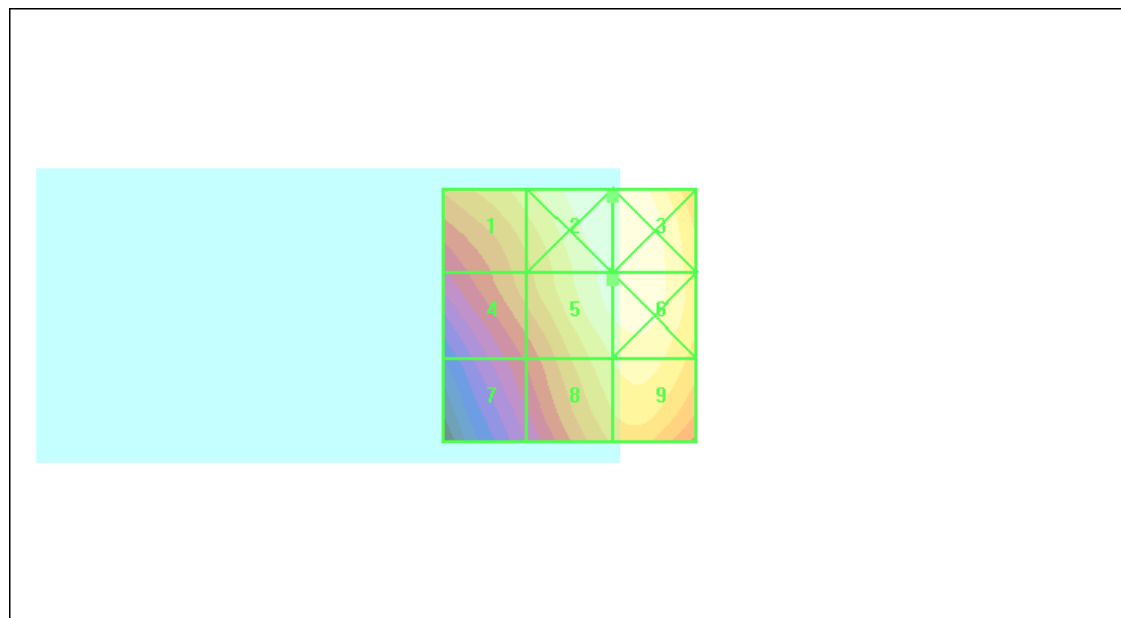
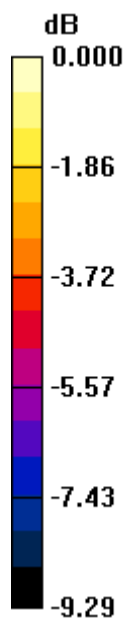
Grid 1 67.2 M4	Grid 2 79.5 M4	Grid 3 79.5 M4
Grid 4 58.6 M4	Grid 5 76.9 M4	Grid 6 78.3 M4
Grid 7 49.2 M4	Grid 8 69.2 M4	Grid 9 71.6 M4

Cursor:

Total = 79.5 V/m

E Category: M4

Location: -8.5, -23.5, 8.7 mm



0 dB = 79.5V/m

Test Laboratory: Compliance Certification Services

PCS Band_HAC (Murata)

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 = 46.7 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 36.5 V/m; Power Drift = -0.026 dB

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

Peak E-field in V/m

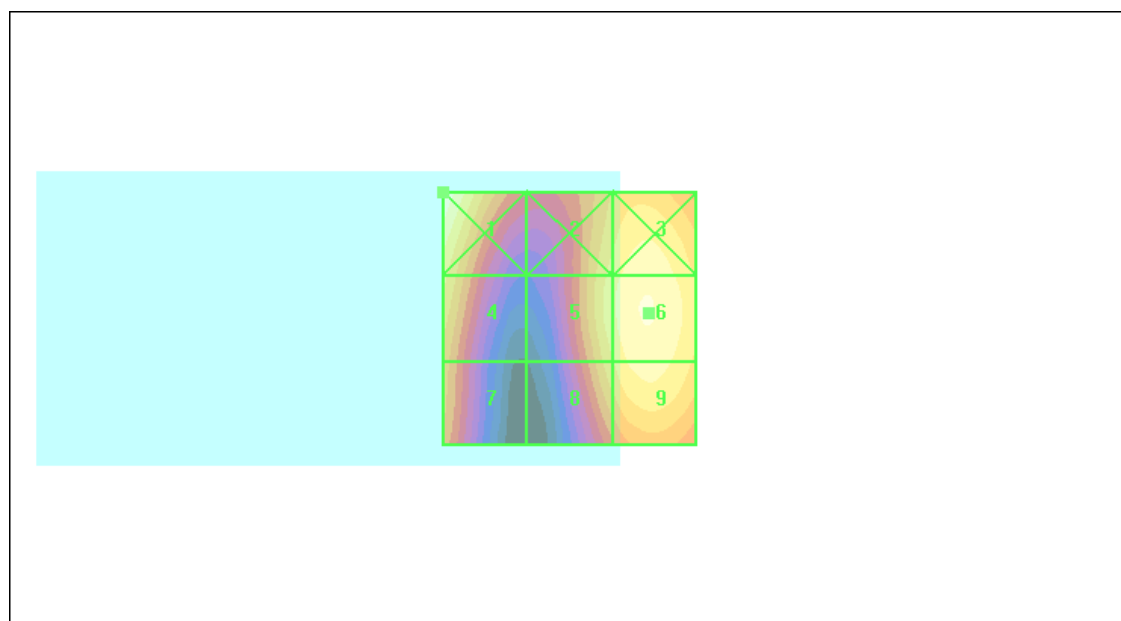
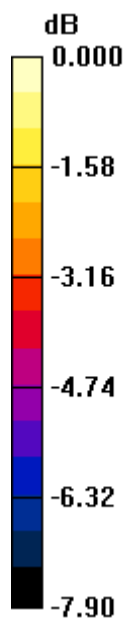
Grid 1 49.4 M4	Grid 2 42.4 M4	Grid 3 45.7 M4
Grid 4 42.3 M4	Grid 5 43.3 M4	Grid 6 46.7 M4
Grid 7 38.1 M4	Grid 8 41.1 M4	Grid 9 45.0 M4

Cursor:

Total = 49.4 V/m

E Category: M4

Location: 25, -25, 8.7 mm



0 dB = 49.4V/m

Test Laboratory: Compliance Certification Services

PCS Band_HAC (Murata)

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 = 44.8 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 33.9 V/m; Power Drift = -0.005 dB

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

Peak E-field in V/m

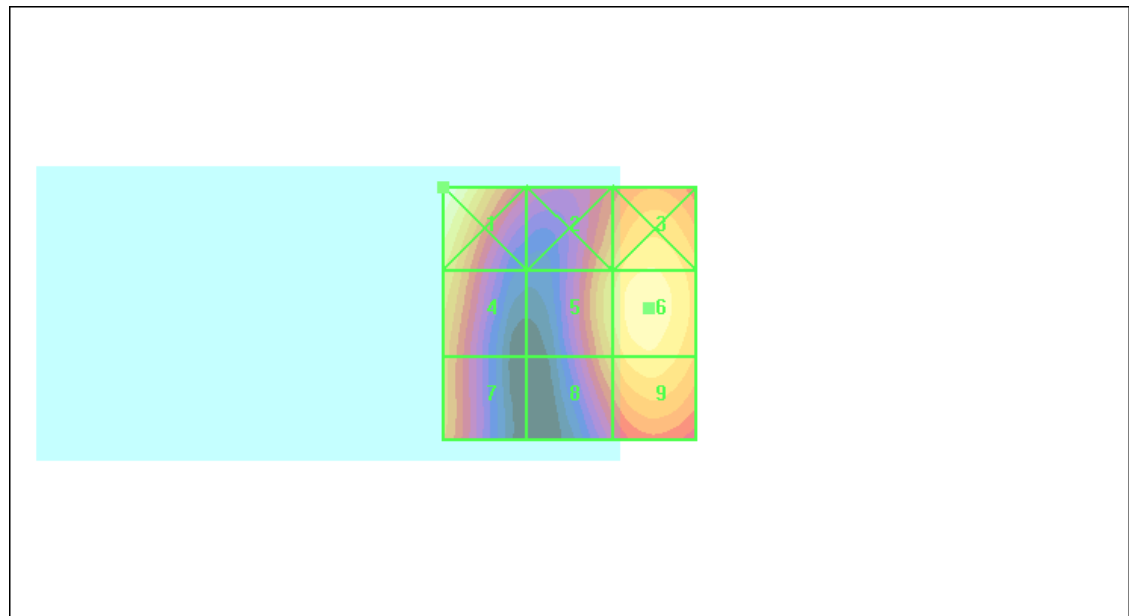
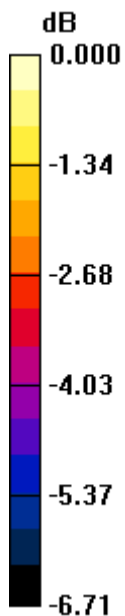
Grid 1 47.9 M4	Grid 2 39.6 M4	Grid 3 43.4 M4
Grid 4 41.3 M4	Grid 5 41.1 M4	Grid 6 44.8 M4
Grid 7 38.2 M4	Grid 8 38.9 M4	Grid 9 42.8 M4

Cursor:

Total = 47.9 V/m

E Category: M4

Location: 25, -25, 8.7 mm



0 dB = 47.9V/m

Test Laboratory: Compliance Certification Services

PCS Band_HAC (Murata)

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 = 39.1 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 34.3 V/m; Power Drift = 0.176 dB

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

Peak E-field in V/m

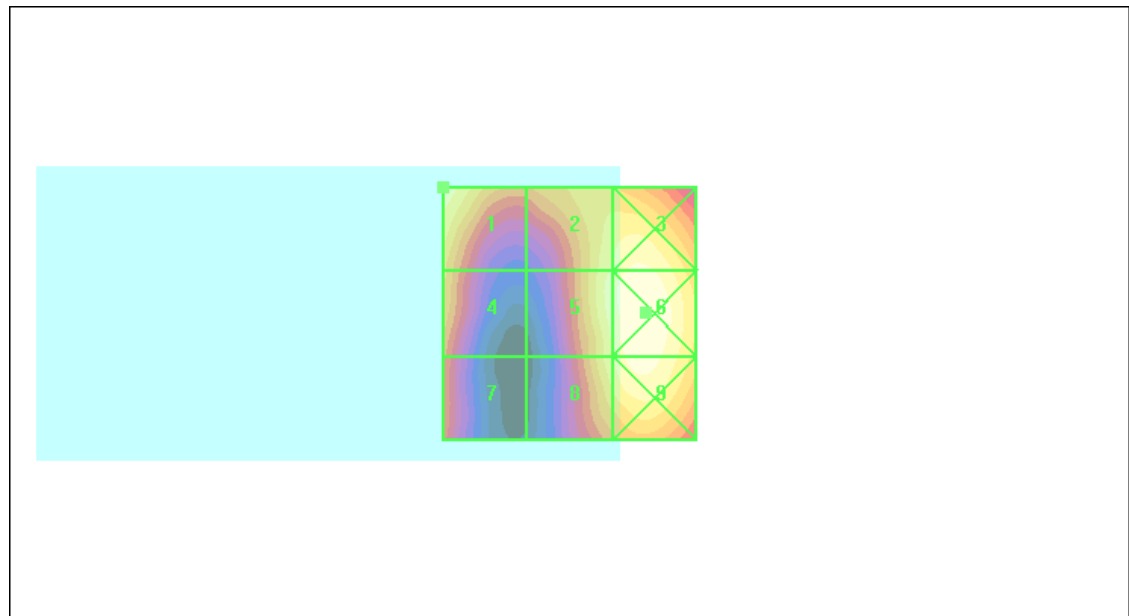
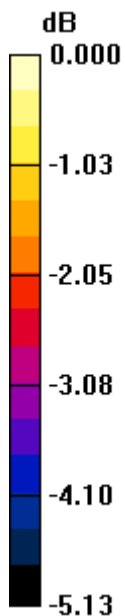
Grid 1 39.1 M4	Grid 2 38.1 M4	Grid 3 39.6 M4
Grid 4 35.4 M4	Grid 5 38.8 M4	Grid 6 40.8 M4
Grid 7 32.8 M4	Grid 8 37.7 M4	Grid 9 40.0 M4

Cursor:

Total = 40.8 V/m

E Category: M4

Location: -15, 0, 8.7 mm



0 dB = 40.8V/m

Test Laboratory: Compliance Certification Services

Cell Band_HAC (Murata)

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 = 0.123 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.117 A/m; Power Drift = 0.042 dB

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

Peak H-field in A/m

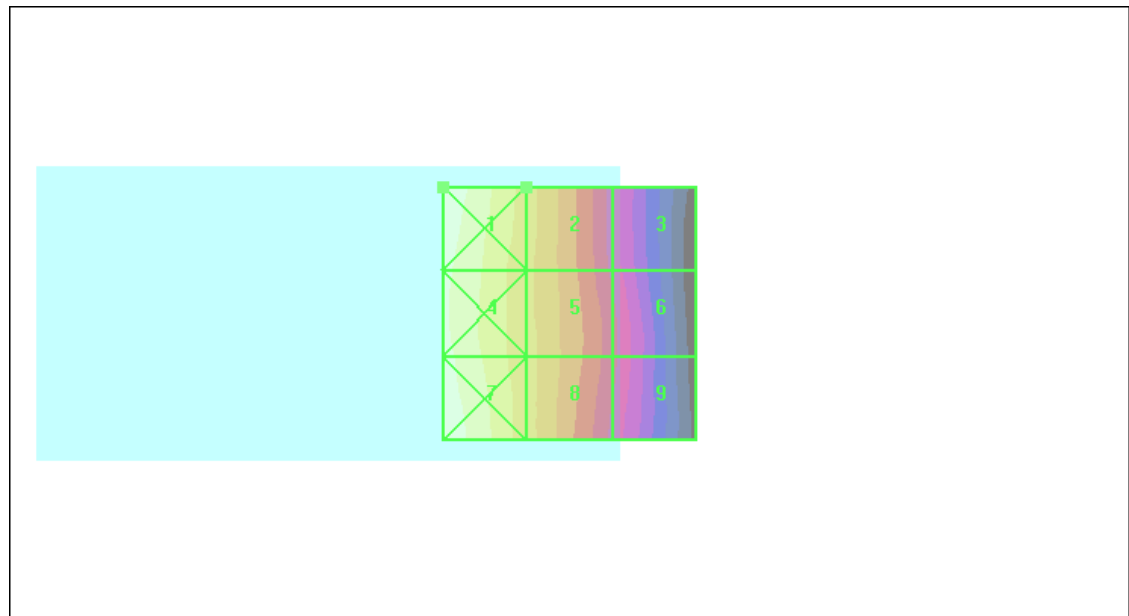
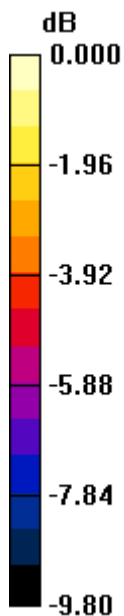
Grid 1 0.159 M4	Grid 2 0.123 M4	Grid 3 0.085 M4
Grid 4 0.152 M4	Grid 5 0.121 M4	Grid 6 0.089 M4
Grid 7 0.157 M4	Grid 8 0.121 M4	Grid 9 0.089 M4

Cursor:

Total = 0.159 A/m

H Category: M4

Location: 25, -25, 8.7 mm



0 dB = 0.159A/m

Test Laboratory: Compliance Certification Services

Cell Band_HAC (Murata)

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 = 0.134 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.131 A/m; Power Drift = -0.115 dB

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

Peak H-field in A/m

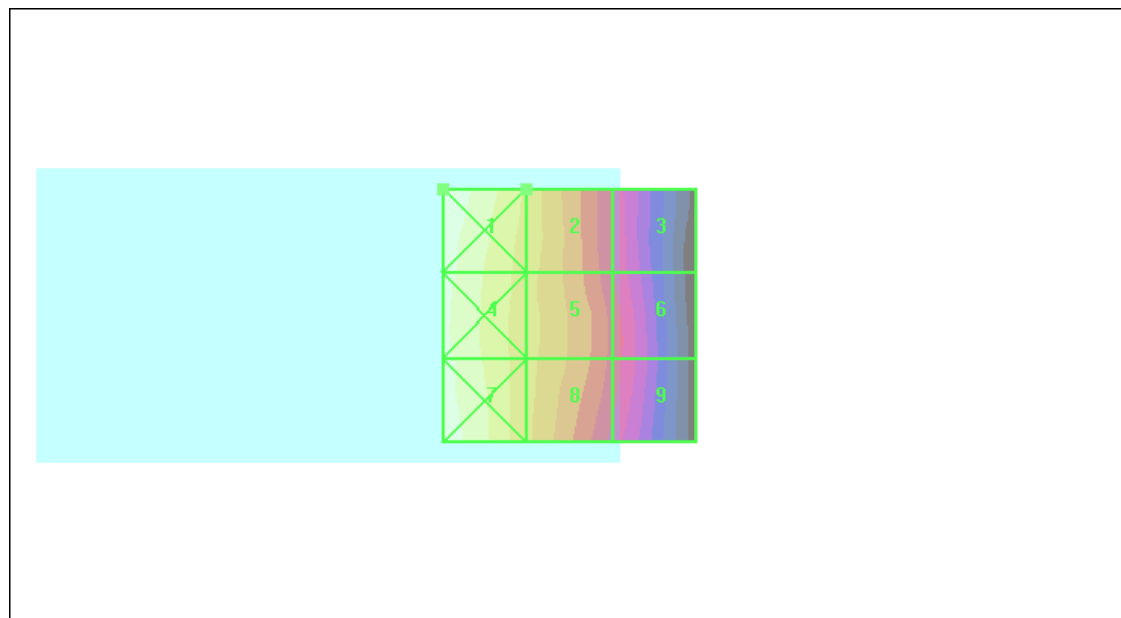
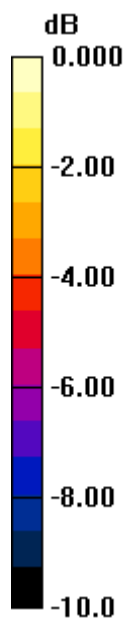
Grid 1 0.171 M4	Grid 2 0.134 M4	Grid 3 0.094 M4
Grid 4 0.163 M4	Grid 5 0.131 M4	Grid 6 0.098 M4
Grid 7 0.166 M4	Grid 8 0.130 M4	Grid 9 0.097 M4

Cursor:

Total = 0.171 A/m

H Category: M4

Location: 25, -25, 8.7 mm



0 dB = 0.171A/m

Test Laboratory: Compliance Certification Services

Cell Band_HAC (Murata)

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 = 0.141 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.149 A/m; Power Drift = -0.049 dB

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

Peak H-field in A/m

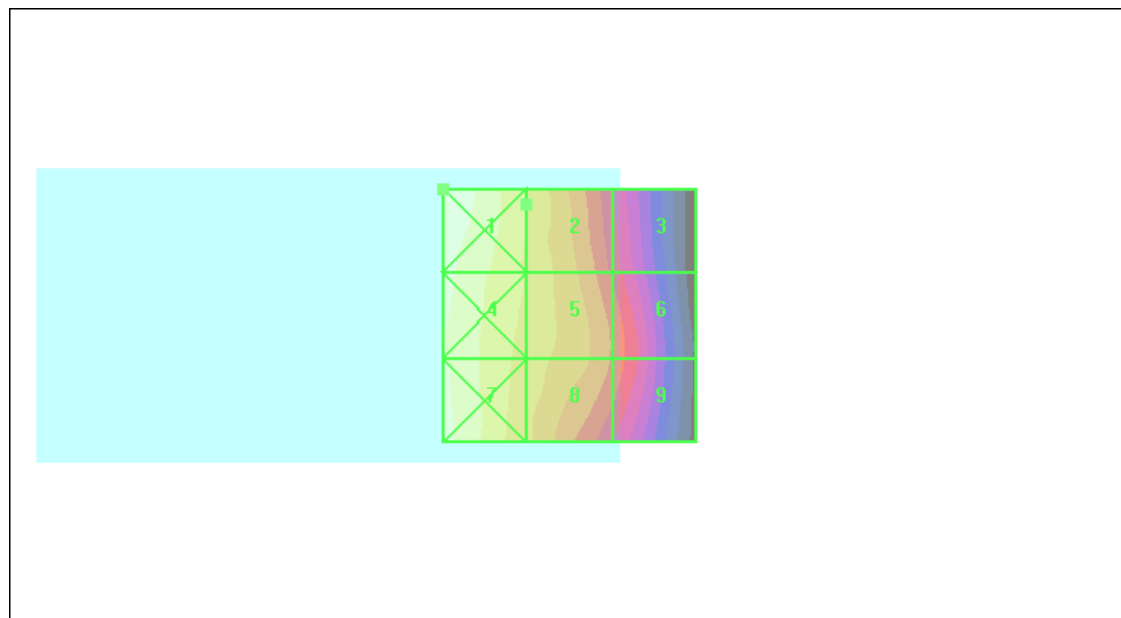
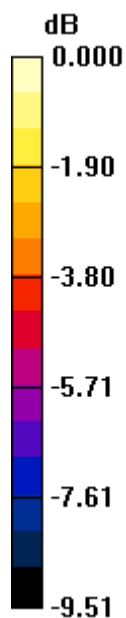
Grid 1 0.175 M4	Grid 2 0.141 M4	Grid 3 0.103 M4
Grid 4 0.167 M4	Grid 5 0.140 M4	Grid 6 0.112 M4
Grid 7 0.168 M4	Grid 8 0.137 M4	Grid 9 0.112 M4

Cursor:

Total = 0.175 A/m

H Category: M4

Location: 25, -25, 8.7 mm



0 dB = 0.175A/m

Test Laboratory: Compliance Certification Services

PCS Band_HAC (Murata)

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 = 0.138 A/m

Probe Modulation Factor = 0.990

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.151 A/m; Power Drift = 0.015 dB

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

Peak H-field in A/m

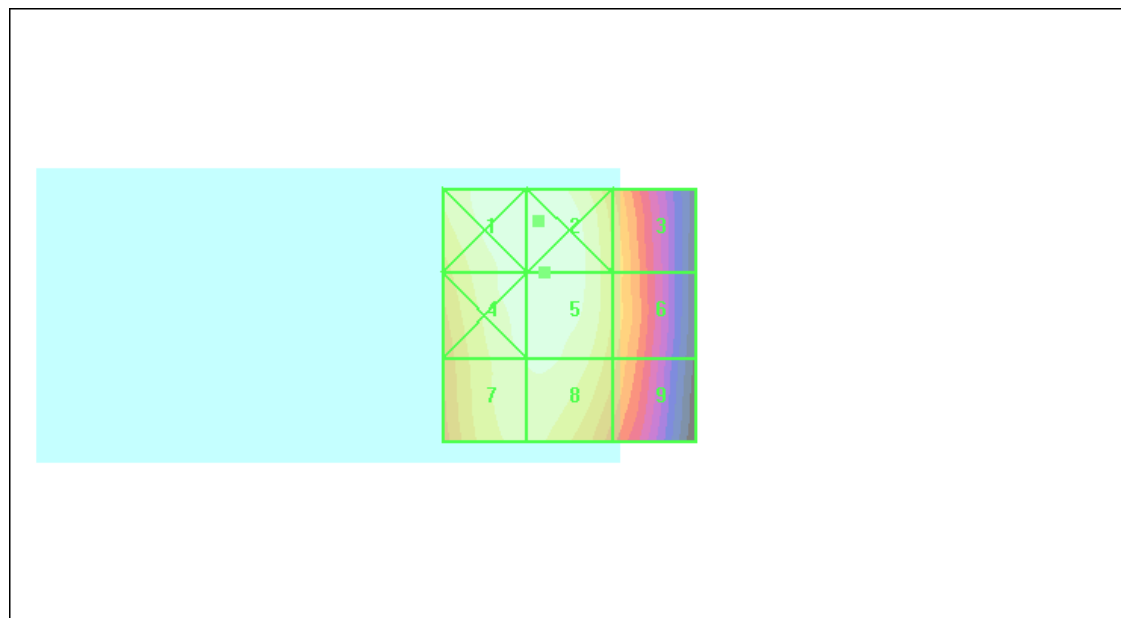
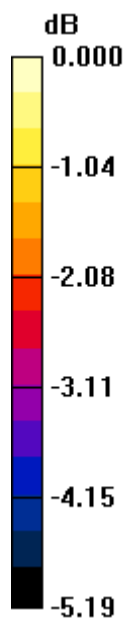
Grid 1 0.138 M4	Grid 2 0.139 M4	Grid 3 0.124 M4
Grid 4 0.137 M4	Grid 5 0.138 M4	Grid 6 0.124 M4
Grid 7 0.134 M4	Grid 8 0.135 M4	Grid 9 0.120 M4

Cursor:

Total = 0.139 A/m

H Category: M4

Location: 6, -18.5, 8.7 mm



0 dB = 0.139A/m

Test Laboratory: Compliance Certification Services

PCS Band_HAC (Murata)

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 = 0.139 A/m

Probe Modulation Factor = 0.990

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.156 A/m; Power Drift = -0.080 dB

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

Peak H-field in A/m

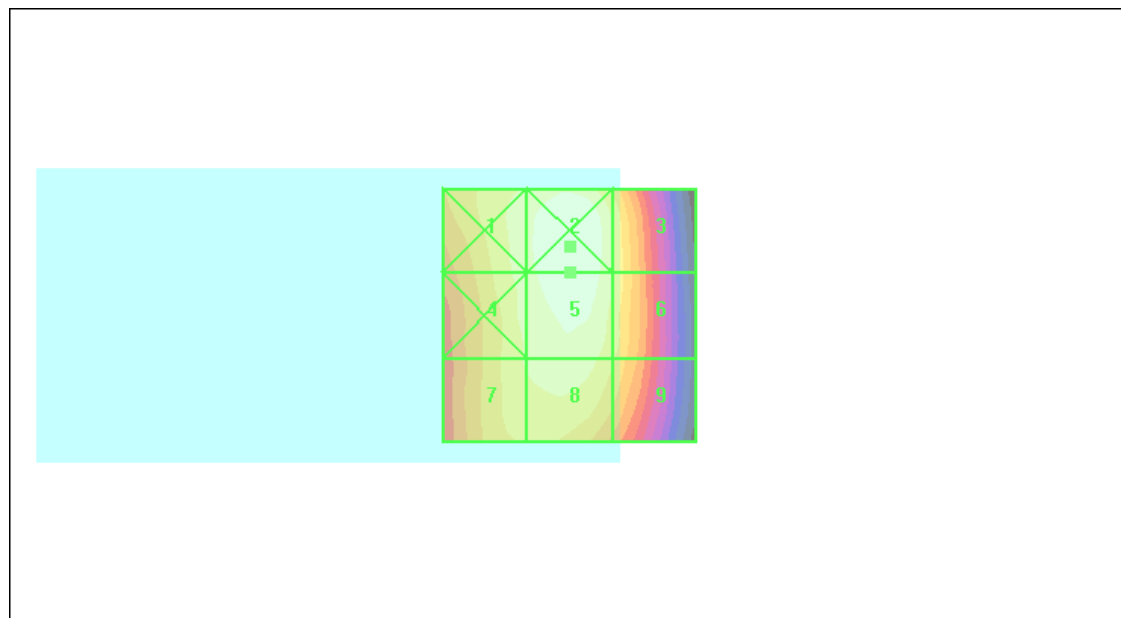
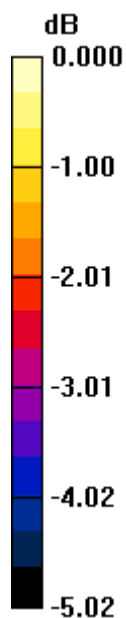
Grid 1 0.133 M4	Grid 2 0.140 M4	Grid 3 0.131 M4
Grid 4 0.133 M4	Grid 5 0.139 M4	Grid 6 0.130 M4
Grid 7 0.130 M4	Grid 8 0.133 M4	Grid 9 0.126 M4

Cursor:

Total = 0.140 A/m

H Category: M4

Location: 0, -13.5, 8.7 mm



0 dB = 0.140A/m

Test Laboratory: Compliance Certification Services

PCS Band_HAC (Murata)

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 = 0.127 A/m

Probe Modulation Factor = 0.990

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.098 A/m; Power Drift = 0.270 dB

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

Peak H-field in A/m

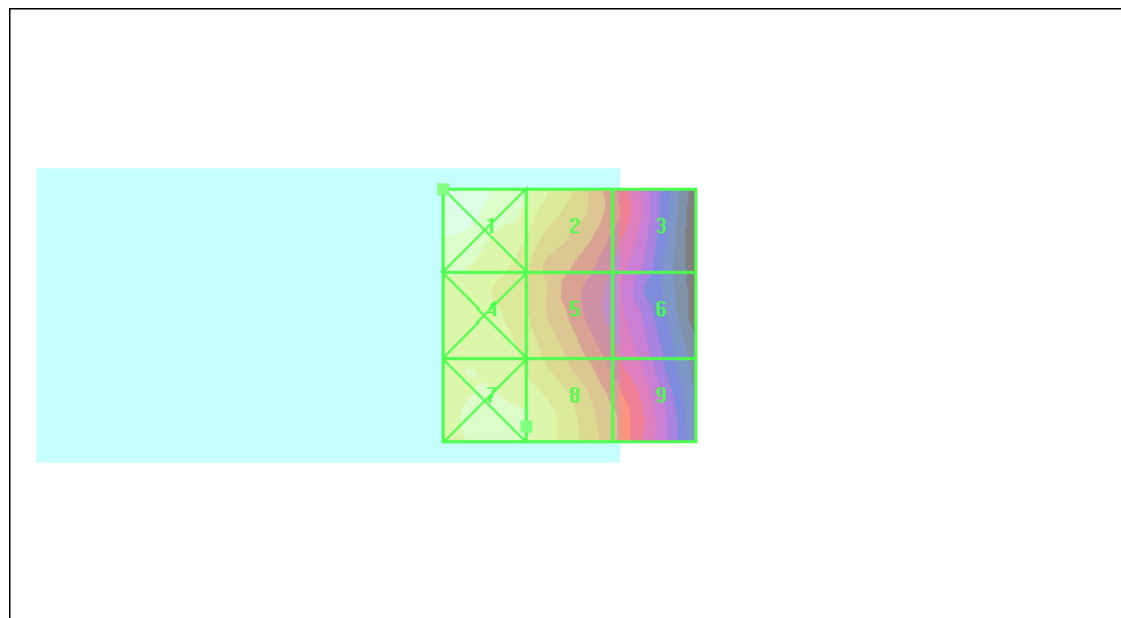
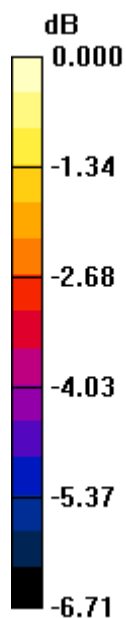
Grid 1 0.140 M4	Grid 2 0.127 M4	Grid 3 0.101 M4
Grid 4 0.127 M4	Grid 5 0.118 M4	Grid 6 0.095 M4
Grid 7 0.132 M4	Grid 8 0.127 M4	Grid 9 0.104 M4

Cursor:

Total = 0.140 A/m

H Category: M4

Location: 25, -25, 8.7 mm



0 dB = 0.140A/m