

Test Laboratory: UL CCS SAR Lab C

GSM 850

Communication System: GPRS-FDD (TDMA, GMSK, 1 slot); Frequency: 824.4 MHz; Duty Cycle: 1:8.00018

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 1/30/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

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

Maximum value of peak Total field = 0.311 A/m

Probe Modulation Factor = 2.790

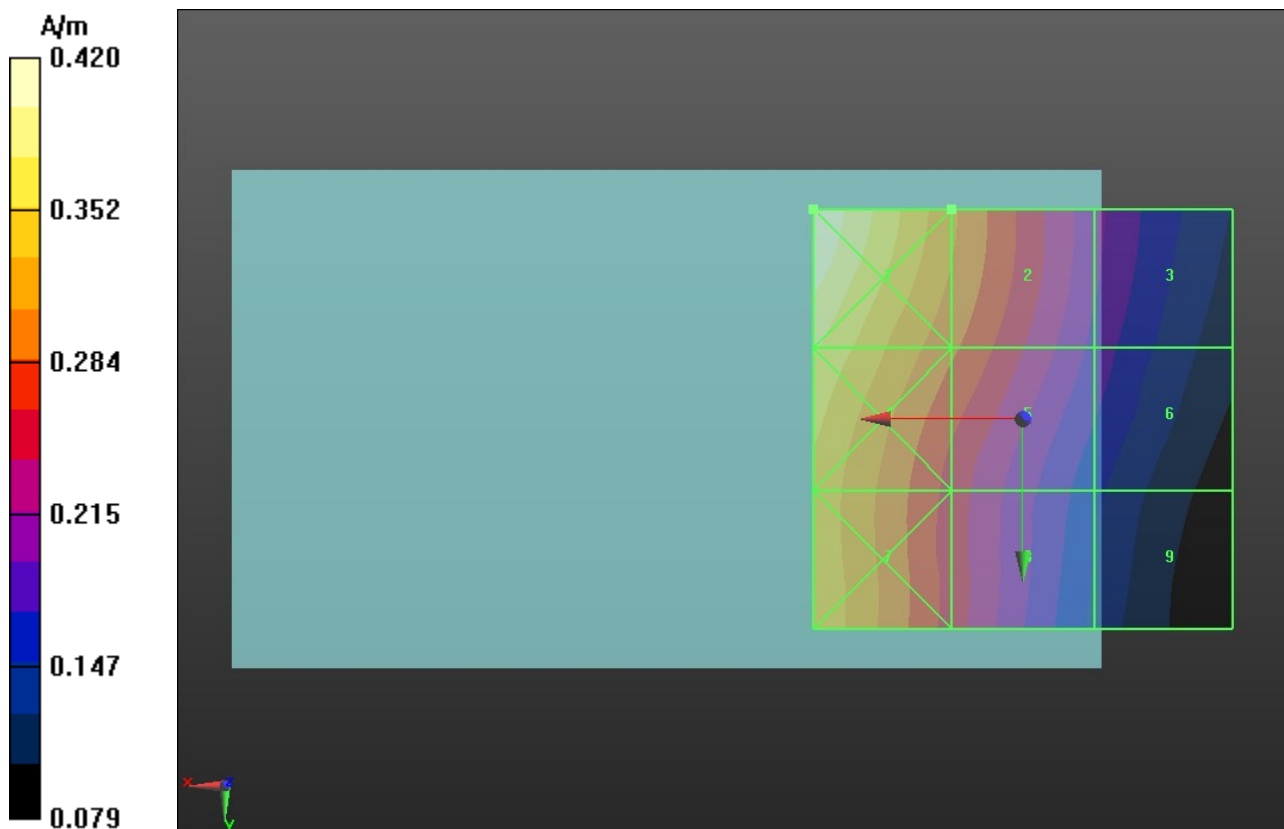
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.084 A/m; Power Drift = 0.04 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.420 M4	Grid 2 0.311 M4	Grid 3 0.201 M4
Grid 4 0.379 M4	Grid 5 0.289 M4	Grid 6 0.186 M4
Grid 7 0.352 M4	Grid 8 0.253 M4	Grid 9 0.156 M4



Test Laboratory: UL CCS SAR Lab C

GSM 850

Communication System: GPRS-FDD (TDMA, GMSK, 1 slot); Frequency: 836.6 MHz; Duty Cycle: 1:8.00018

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 1/30/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

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

Maximum value of peak Total field = 0.327 A/m

Probe Modulation Factor = 2.790

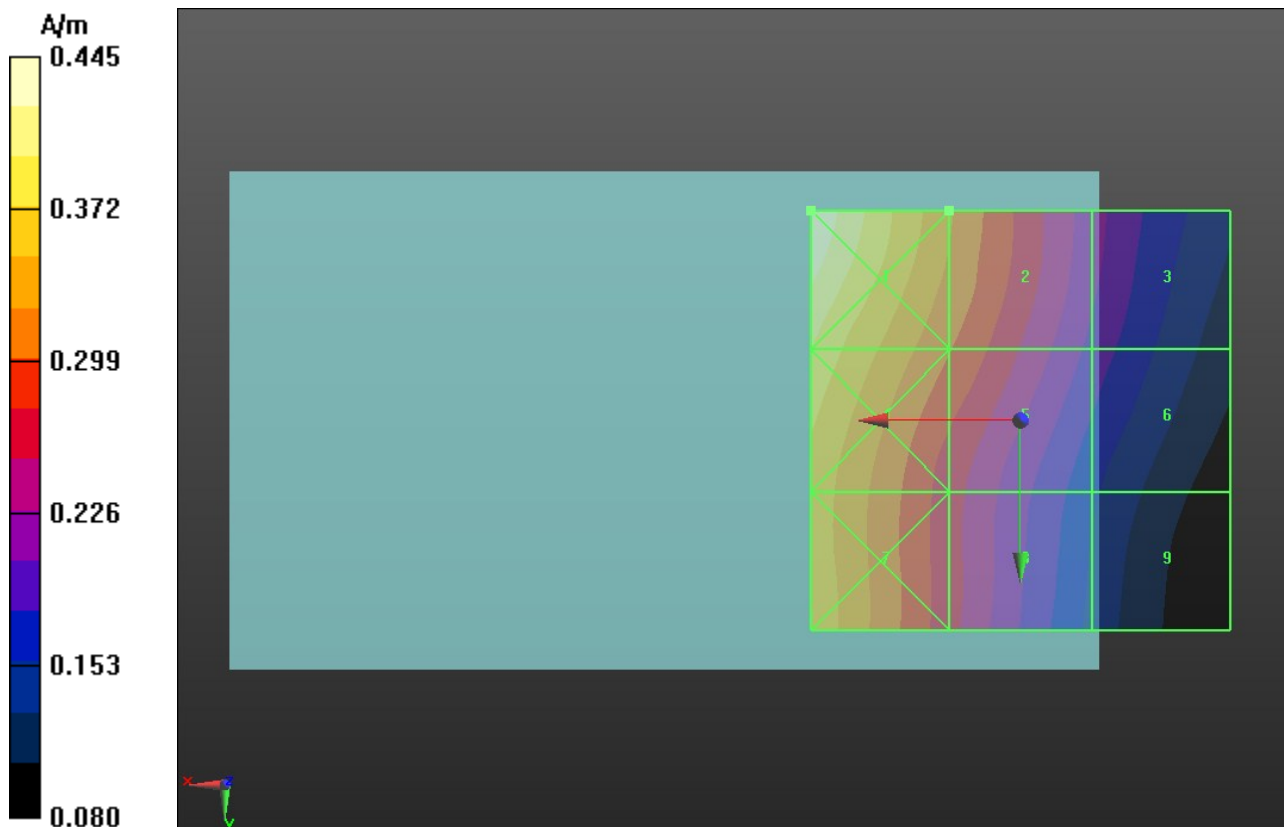
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.087 A/m; Power Drift = 0.03 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.445 M4	Grid 2 0.327 M4	Grid 3 0.213 M4
Grid 4 0.396 M4	Grid 5 0.301 M4	Grid 6 0.195 M4
Grid 7 0.369 M4	Grid 8 0.263 M4	Grid 9 0.160 M4



Test Laboratory: UL CCS SAR Lab C

GSM 850

Communication System: GPRS-FDD (TDMA, GMSK, 1 slot); Frequency: 848.8 MHz; Duty Cycle: 1:8.00018

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 1/30/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

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

Maximum value of peak Total field = 0.294 A/m

Probe Modulation Factor = 2.790

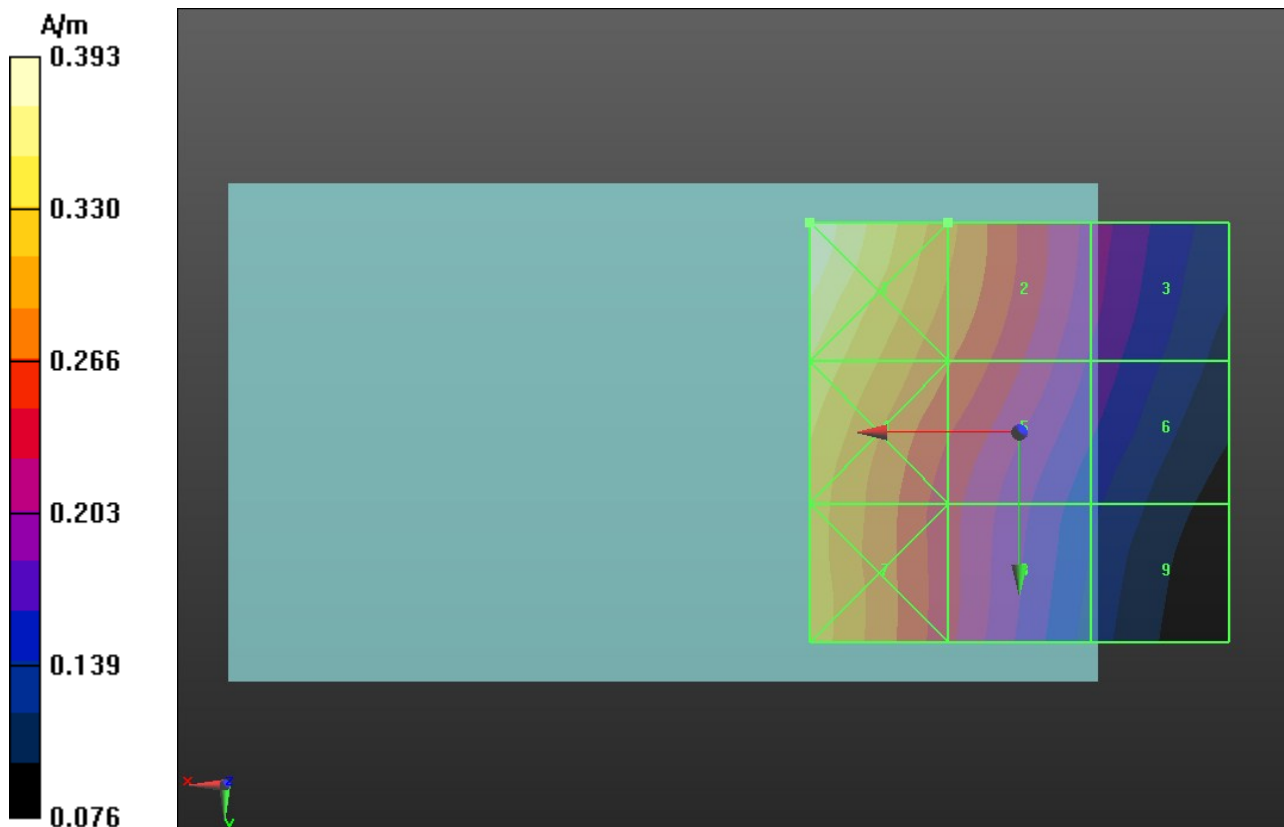
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.080 A/m; Power Drift = -0.02 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.393 M4	Grid 2 0.294 M4	Grid 3 0.196 M4
Grid 4 0.350 M4	Grid 5 0.269 M4	Grid 6 0.179 M4
Grid 7 0.325 M4	Grid 8 0.233 M4	Grid 9 0.147 M4



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GSM 1900

Communication System: GPRS-FDD (TDMA, GMSK, 1 slot); Frequency: 1850.2 MHz; Duty Cycle: 1:8.00018

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 1/30/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

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

Maximum value of peak Total field = 0.186 A/m

Probe Modulation Factor = 2.840

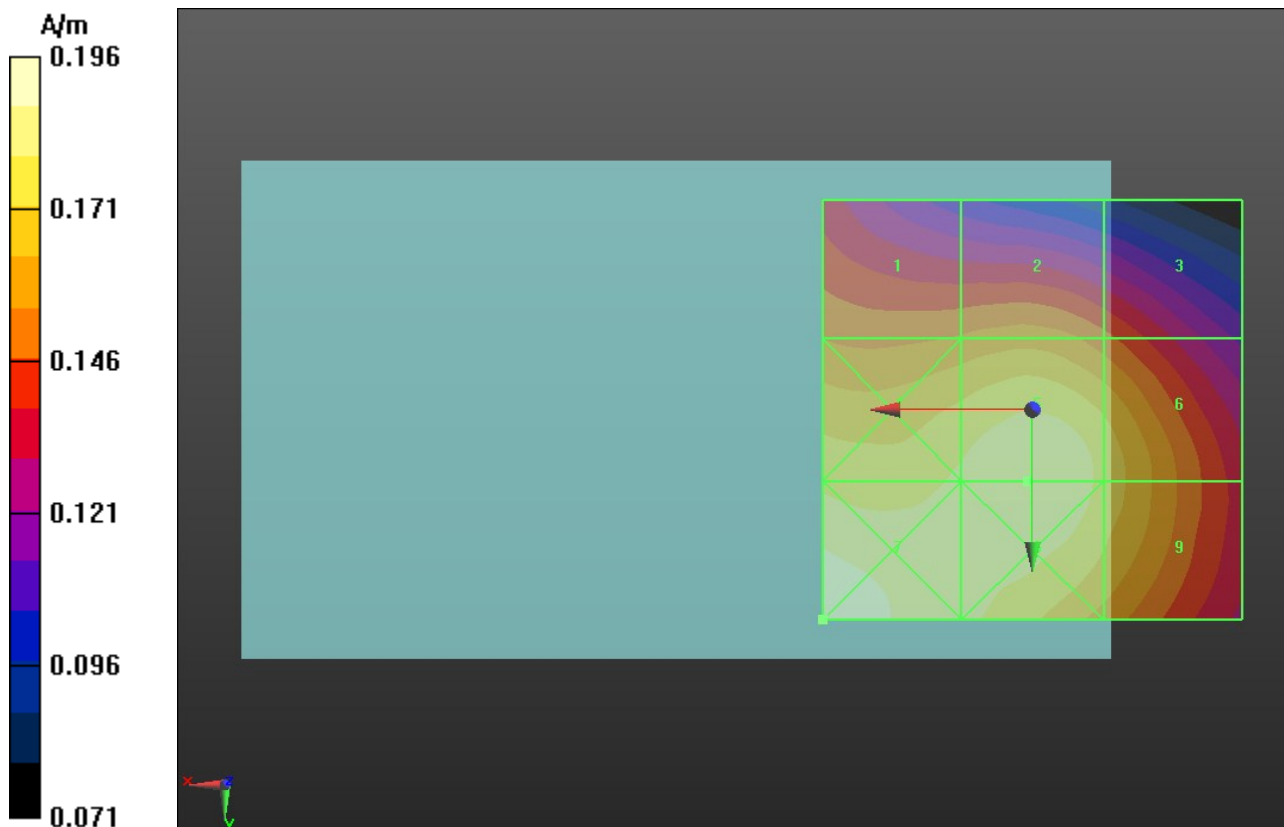
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.073 A/m; Power Drift = 0.03 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.156 M3	0.160 M3	0.149 M3
0.181 M3	0.186 M3	0.177 M3
0.196 M3	0.186 M3	0.177 M3



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GSM 1900

Communication System: GPRS-FDD (TDMA, GMSK, 1 slot); Frequency: 1880 MHz; Duty Cycle: 1:8.00018

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 1/30/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

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

Maximum value of peak Total field = 0.187 A/m

Probe Modulation Factor = 2.840

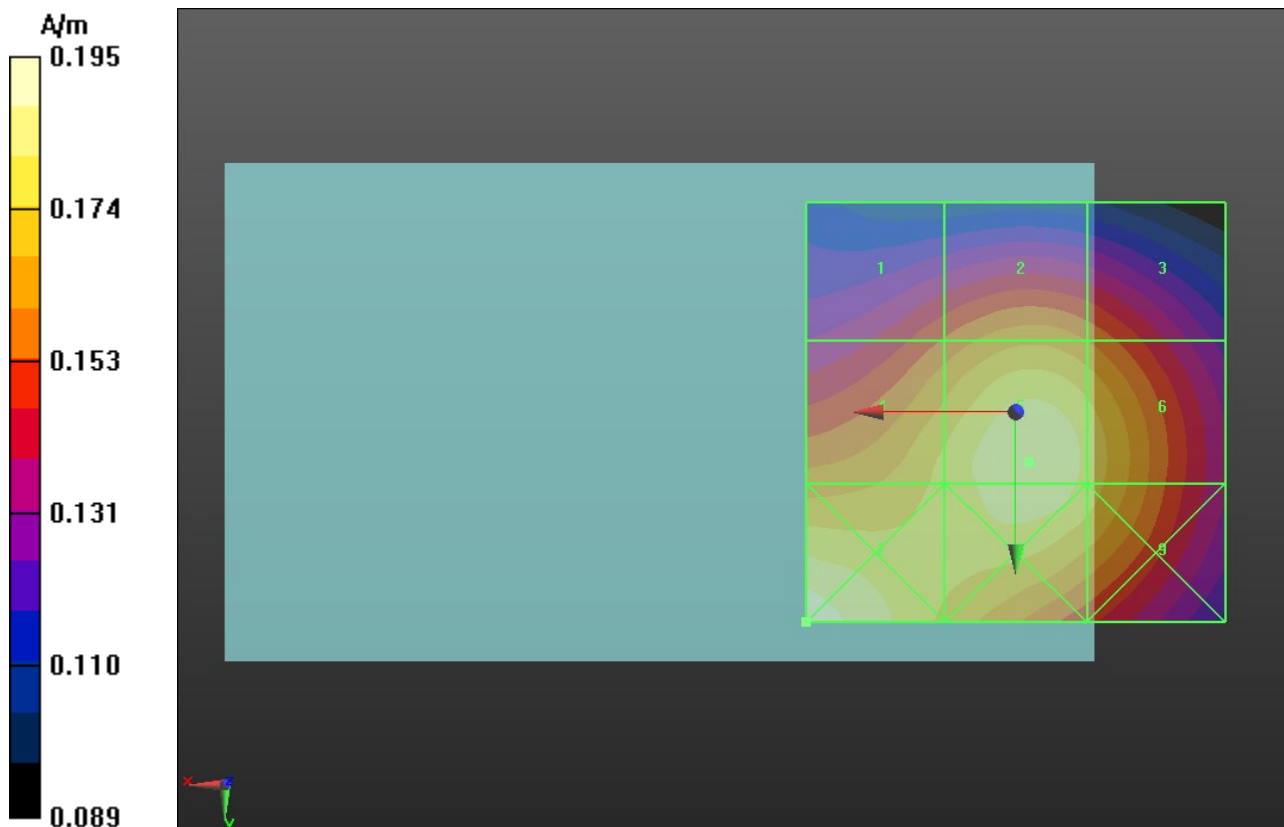
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.075 A/m; Power Drift = 0.06 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.154 M3	0.166 M3	0.160 M3
Grid 4	Grid 5	Grid 6
0.176 M3	0.187 M3	0.179 M3
Grid 7	Grid 8	Grid 9
0.195 M3	0.186 M3	0.178 M3



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GSM 1900

Communication System: GPRS-FDD (TDMA, GMSK, 1 slot); Frequency: 1909.8 MHz; Duty Cycle: 1:8.00018

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 1/30/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

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

Maximum value of peak Total field = 0.171 A/m

Probe Modulation Factor = 2.840

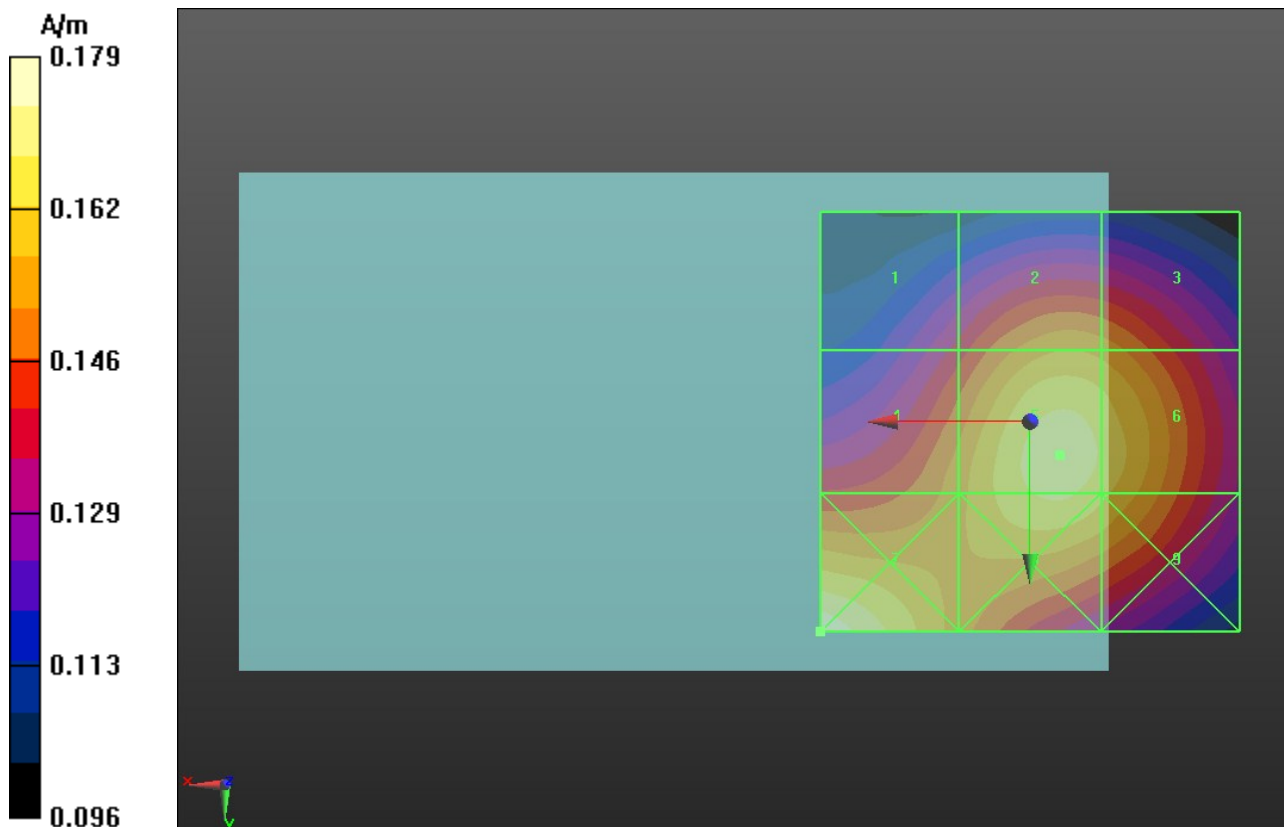
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.069 A/m; Power Drift = 0.02 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.138 M4	0.157 M3	0.155 M3
Grid 4	Grid 5	Grid 6
0.155 M3	0.171 M3	0.167 M3
Grid 7	Grid 8	Grid 9
0.179 M3	0.169 M3	0.164 M3



Test Laboratory: UL CCS SAR Lab C

W-CDMA Band V

Communication System: UMTS-FDD (WCDMA); Frequency: 826.4 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 1/30/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

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

Maximum value of peak Total field = 0.089 A/m

Probe Modulation Factor = 0.900

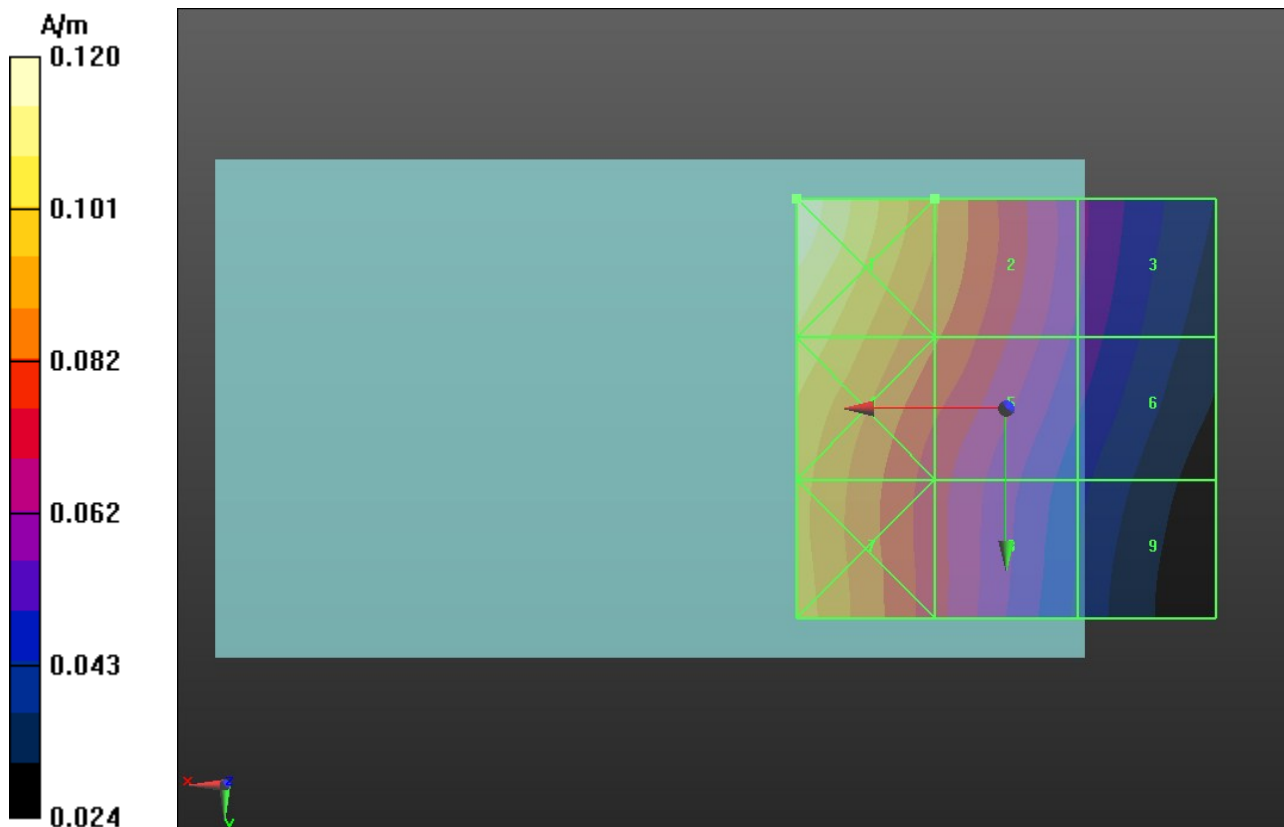
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.076 A/m; Power Drift = 0.0057 dB

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

Peak H-field in A/m

Grid 1 0.120 M4	Grid 2 0.089 M4	Grid 3 0.058 M4
Grid 4 0.106 M4	Grid 5 0.082 M4	Grid 6 0.055 M4
Grid 7 0.099 M4	Grid 8 0.072 M4	Grid 9 0.046 M4



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W-CDMA Band V

Communication System: UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 1/30/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

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

Maximum value of peak Total field = 0.086 A/m

Probe Modulation Factor = 0.900

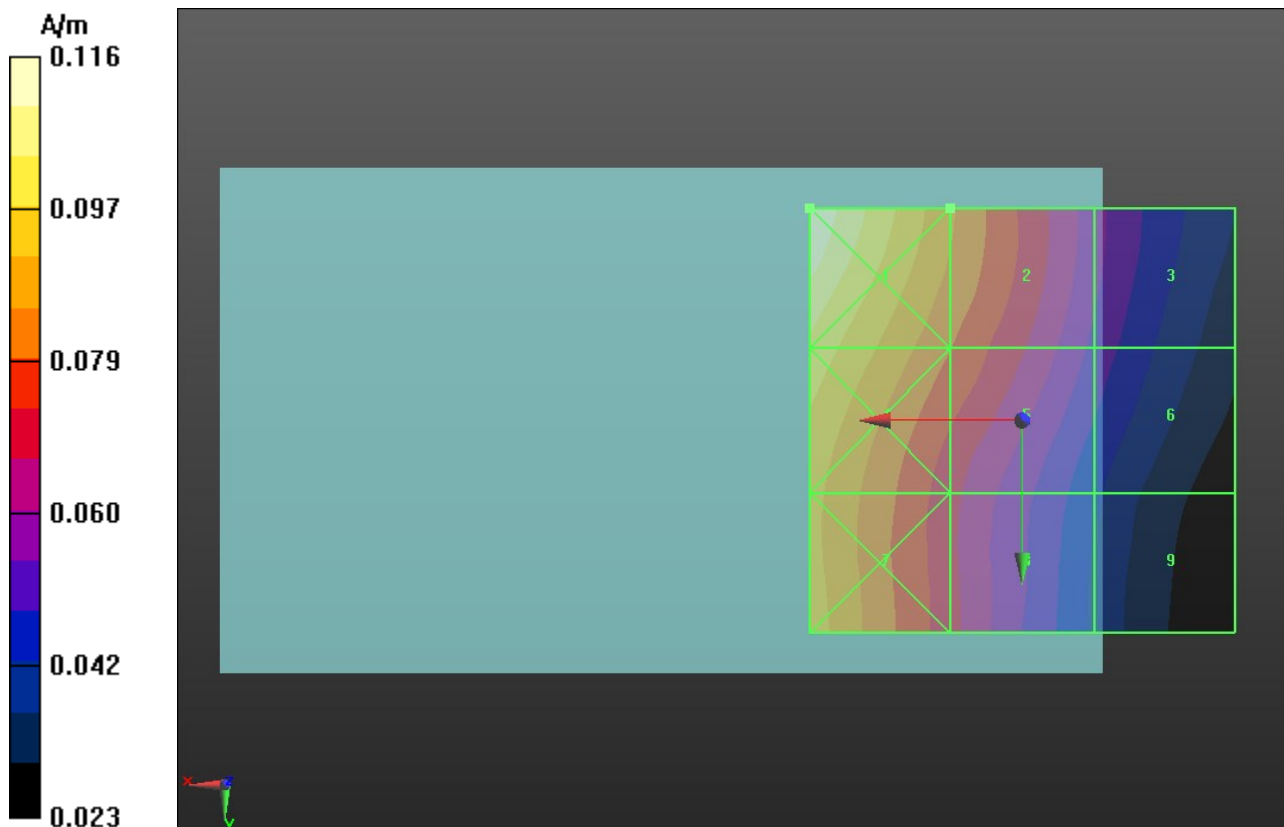
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.074 A/m; Power Drift = -0.05 dB

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

Peak H-field in A/m

Grid 1 0.116 M4	Grid 2 0.086 M4	Grid 3 0.057 M4
Grid 4 0.102 M4	Grid 5 0.079 M4	Grid 6 0.053 M4
Grid 7 0.095 M4	Grid 8 0.069 M4	Grid 9 0.043 M4



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W-CDMA Band V

Communication System: UMTS-FDD (WCDMA); Frequency: 846.6 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 1/30/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

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

Maximum value of peak Total field = 0.073 A/m

Probe Modulation Factor = 0.900

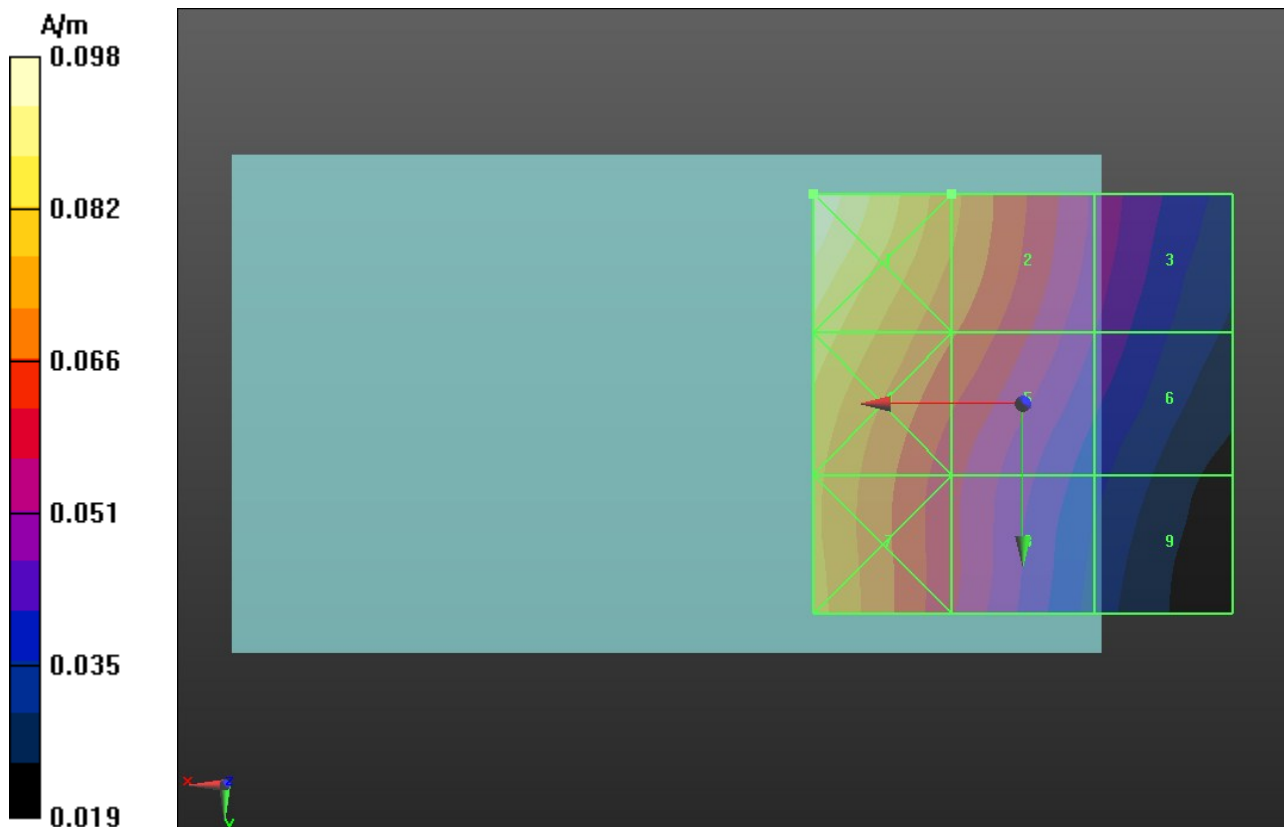
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.063 A/m; Power Drift = -0.03 dB

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

Peak H-field in A/m

Grid 1 0.098 M4	Grid 2 0.073 M4	Grid 3 0.050 M4
Grid 4 0.086 M4	Grid 5 0.067 M4	Grid 6 0.046 M4
Grid 7 0.079 M4	Grid 8 0.058 M4	Grid 9 0.037 M4



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W-CDMA Band II

Communication System: UMTS-FDD (WCDMA); Frequency: 1852.4 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 1/30/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

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

Maximum value of peak Total field = 0.064 A/m

Probe Modulation Factor = 0.950

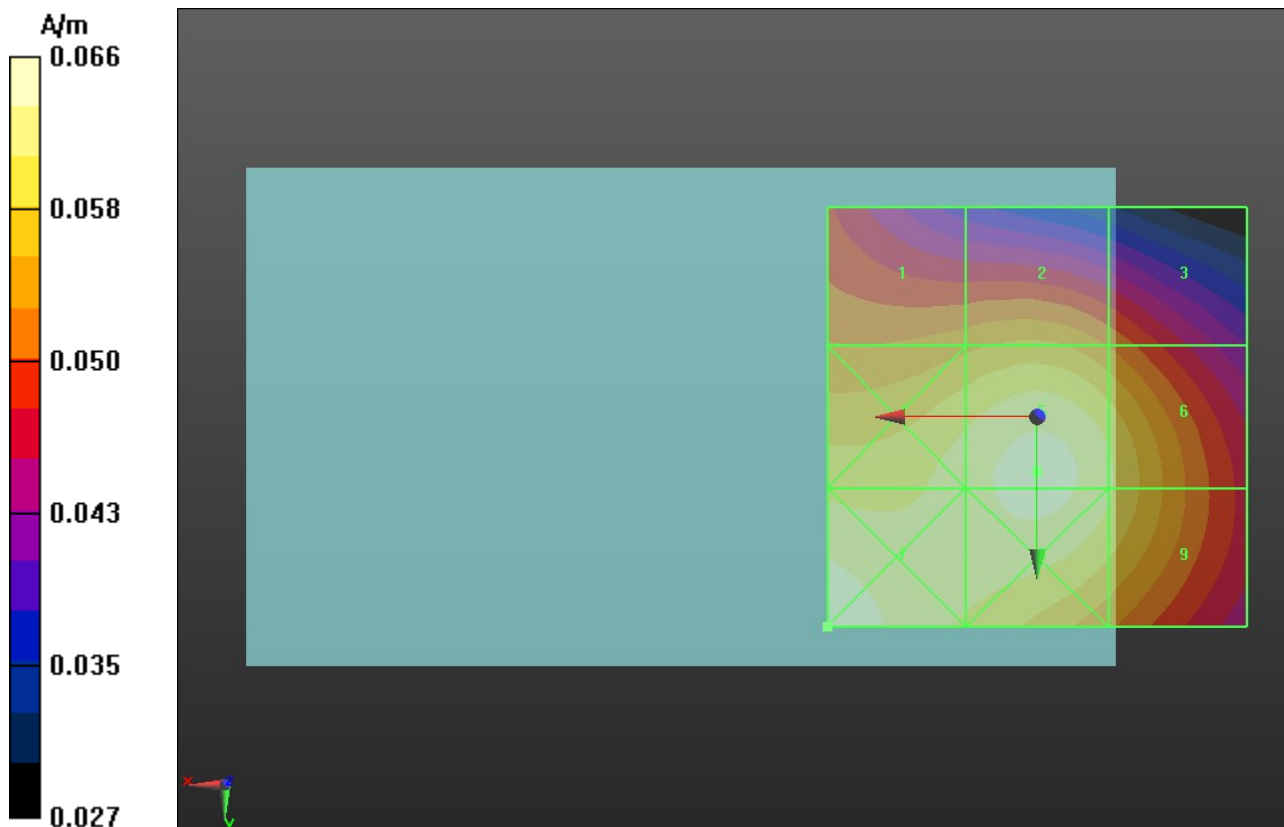
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.077 A/m; Power Drift = -0.14 dB

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

Peak H-field in A/m

Grid 1 0.055 M4	Grid 2 0.056 M4	Grid 3 0.053 M4
Grid 4 0.062 M4	Grid 5 0.064 M4	Grid 6 0.061 M4
Grid 7 0.066 M4	Grid 8 0.064 M4	Grid 9 0.061 M4



Test Laboratory: UL CCS SAR Lab C

W-CDMA Band II

Communication System: UMTS-FDD (WCDMA); Frequency: 1880 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 1/30/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

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

Maximum value of peak Total field = 0.077 A/m

Probe Modulation Factor = 0.950

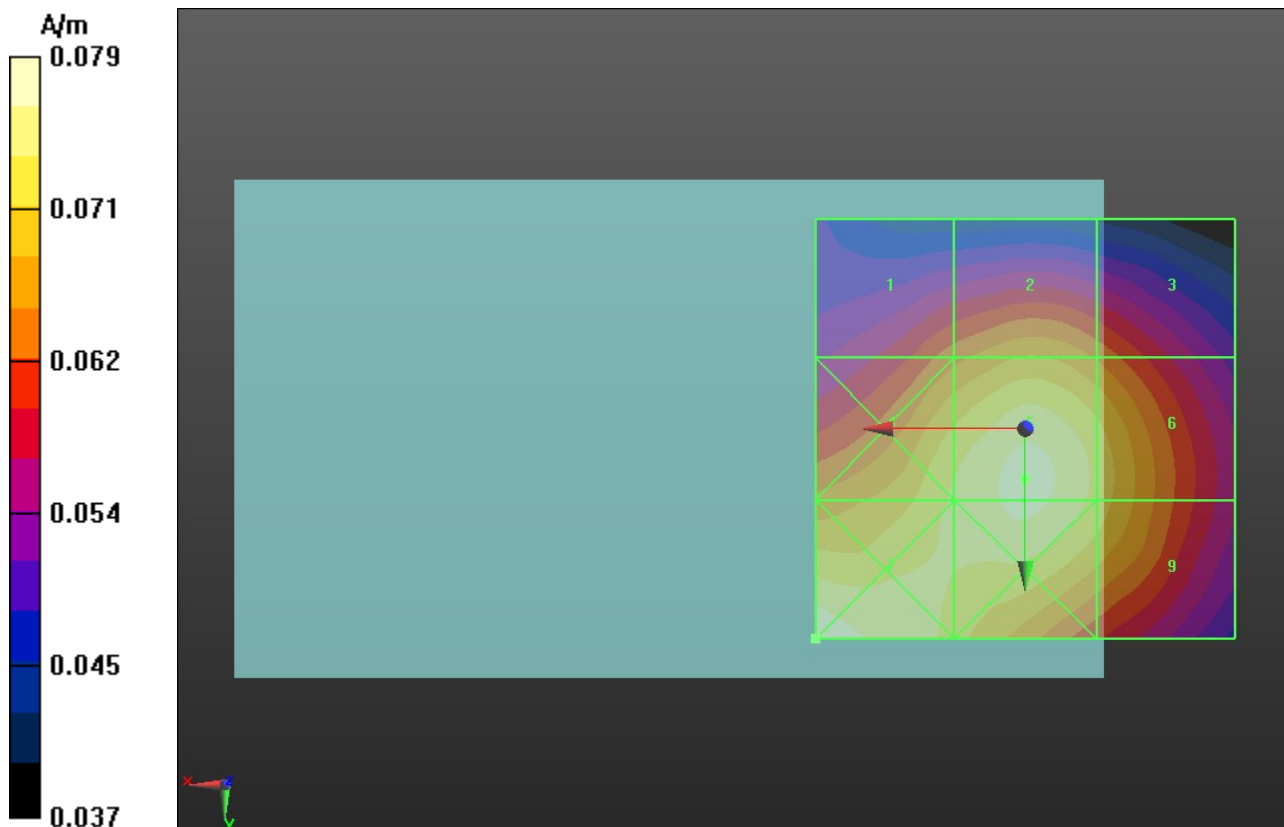
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.091 A/m; Power Drift = 0.18 dB

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

Peak H-field in A/m

Grid 1 0.064 M4	Grid 2 0.068 M4	Grid 3 0.065 M4
Grid 4 0.074 M4	Grid 5 0.077 M4	Grid 6 0.073 M4
Grid 7 0.079 M4	Grid 8 0.077 M4	Grid 9 0.072 M4



Test Laboratory: UL CCS SAR Lab C

W-CDMA Band II

Communication System: UMTS-FDD (WCDMA); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 1/30/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

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

Maximum value of peak Total field = 0.084 A/m

Probe Modulation Factor = 0.950

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.100 A/m; Power Drift = -0.10 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.066 M4	0.077 M4	0.073 M4
Grid 4	Grid 5	Grid 6
0.076 M4	0.084 M4	0.081 M4
Grid 7	Grid 8	Grid 9
0.087 M4	0.084 M4	0.080 M4

