

Test Laboratory: UL CCS SAR Lab C

GSM 850 with Standard cover

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012

- 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)

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

Maximum value of peak Total field = 145.9 V/m

Probe Modulation Factor = 2.790

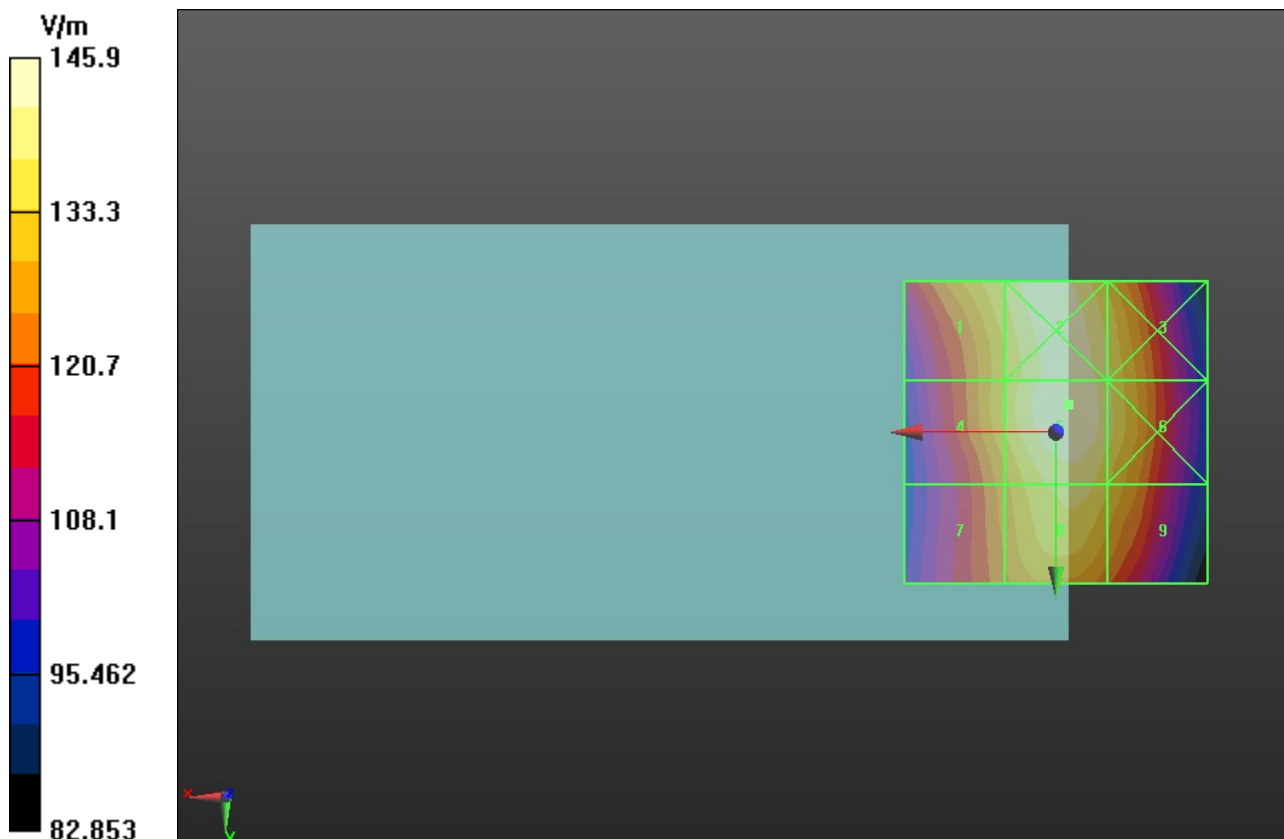
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 68.781 V/m; Power Drift = -0.03 dB

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

Peak E-field in V/m

Grid 1 138.3 M4	Grid 2 144.6 M4	Grid 3 138.8 M4
Grid 4 134.2 M4	Grid 5 145.9 M4	Grid 6 139.4 M4
Grid 7 127.7 M4	Grid 8 139.6 M4	Grid 9 134.3 M4



Test Laboratory: UL CCS SAR Lab C

GSM 850 with Standard cover

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- 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)

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

Maximum value of peak Total field = 144.6 V/m

Probe Modulation Factor = 2.790

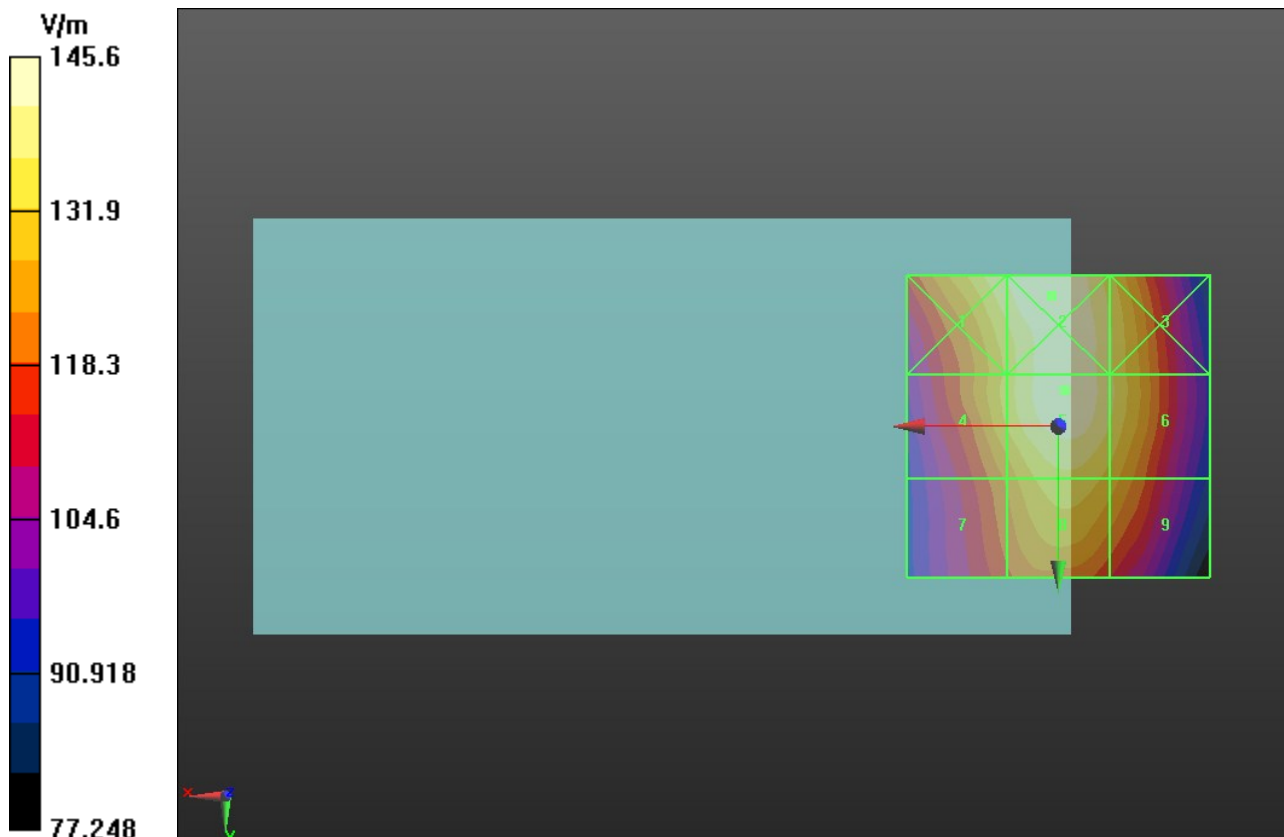
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 67.513 V/m; Power Drift = -0.0083 dB

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

Peak E-field in V/m

Grid 1 142.0 M4	Grid 2 145.6 M4	Grid 3 137.5 M4
Grid 4 134.2 M4	Grid 5 144.6 M4	Grid 6 137.9 M4
Grid 7 124.3 M4	Grid 8 135.5 M4	Grid 9 130.1 M4



Test Laboratory: UL CCS SAR Lab C

GSM 850 with Standard cover

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- 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)

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

Maximum value of peak Total field = 136.3 V/m

Probe Modulation Factor = 2.790

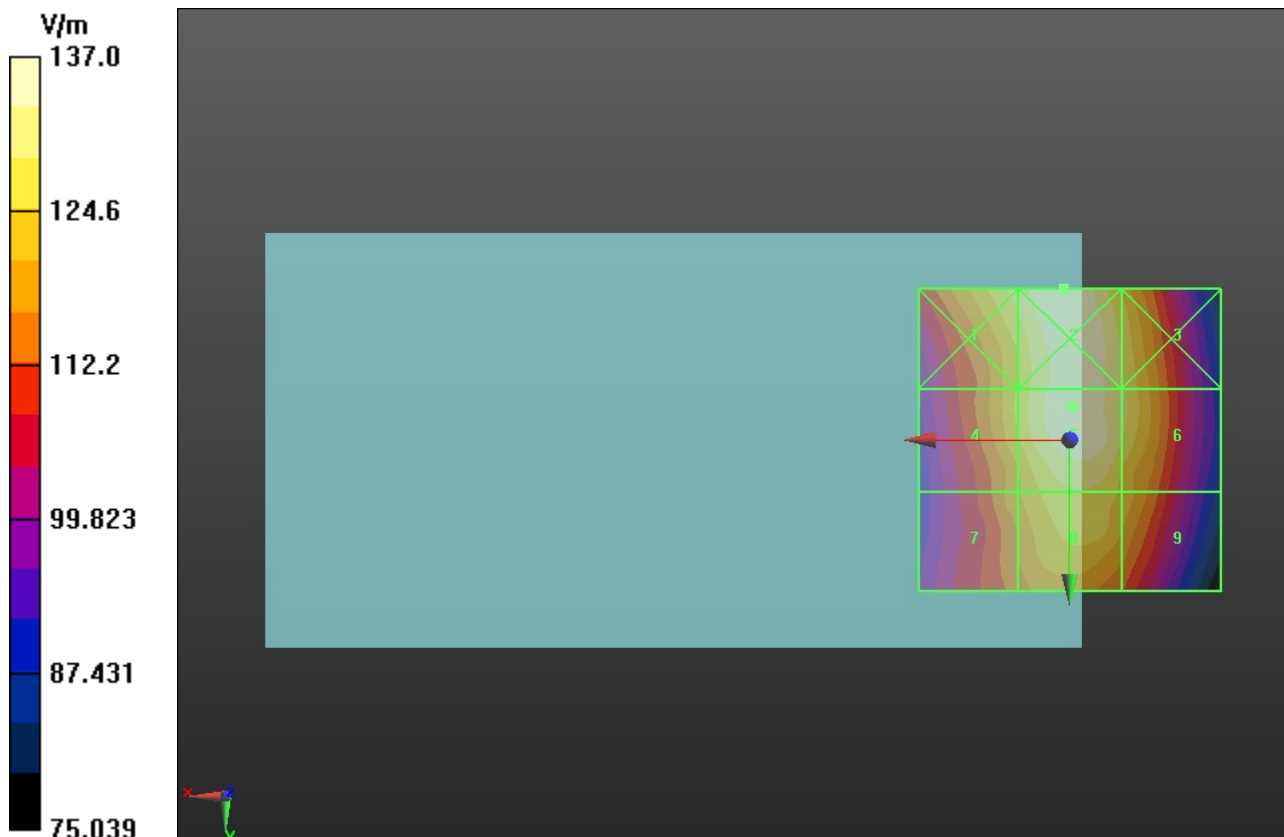
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 64.337 V/m; Power Drift = -0.07 dB

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

Peak E-field in V/m

Grid 1 130.8 M4	Grid 2 137.0 M4	Grid 3 129.7 M4
Grid 4 125.8 M4	Grid 5 136.3 M4	Grid 6 130.4 M4
Grid 7 120.1 M4	Grid 8 128.7 M4	Grid 9 124.0 M4



Test Laboratory: UL CCS SAR Lab C

GSM 1900 with Standard cover

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- 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)

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

Maximum value of peak Total field = 48.875 V/m

Probe Modulation Factor = 2.820

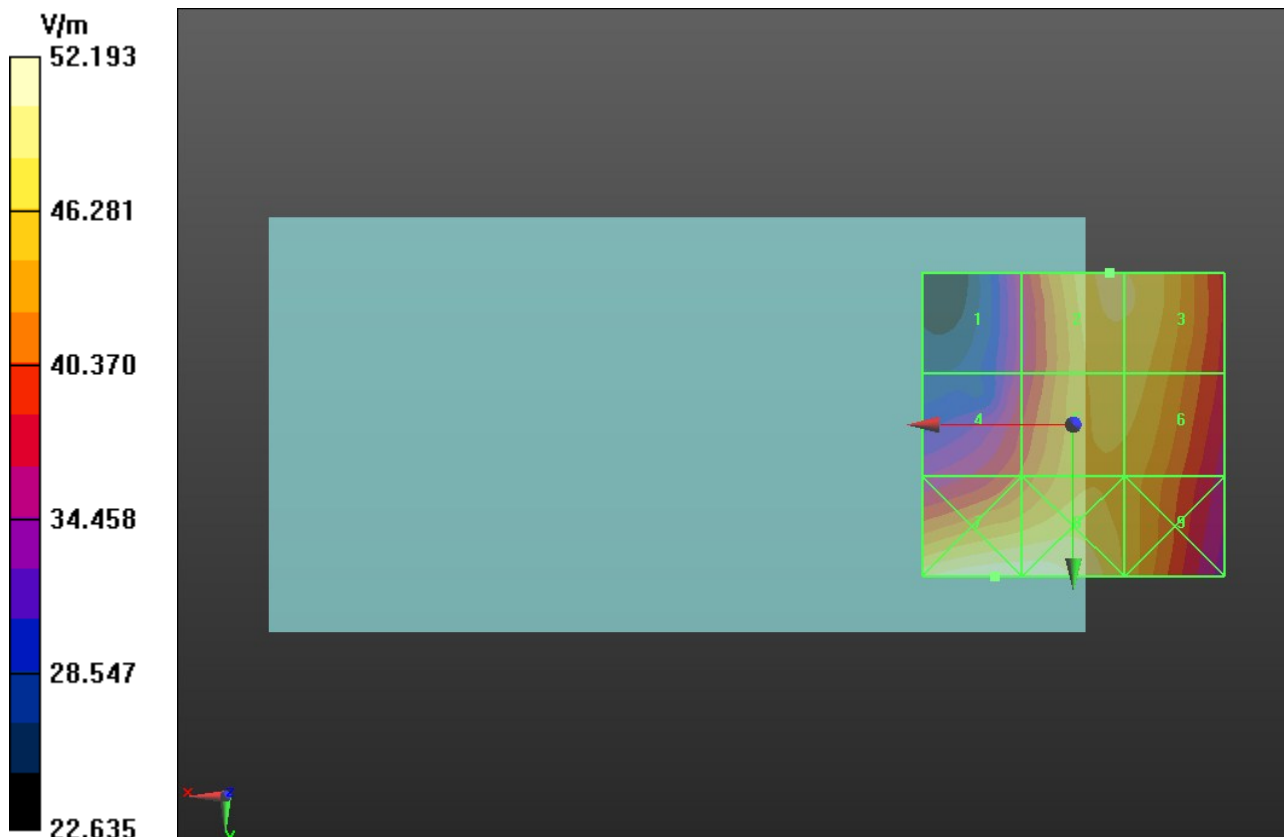
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 20.367 V/m; Power Drift = 0.03 dB

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

Peak E-field in V/m

Grid 1 36.694 M4	Grid 2 48.875 M3	Grid 3 48.600 M3
Grid 4 40.992 M4	Grid 5 47.383 M3	Grid 6 47.321 M3
Grid 7 52.194 M3	Grid 8 52.035 M3	Grid 9 45.985 M4



Test Laboratory: UL CCS SAR Lab C

GSM 1900 with Standard cover

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- 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)

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

Maximum value of peak Total field = 48.393 V/m

Probe Modulation Factor = 2.820

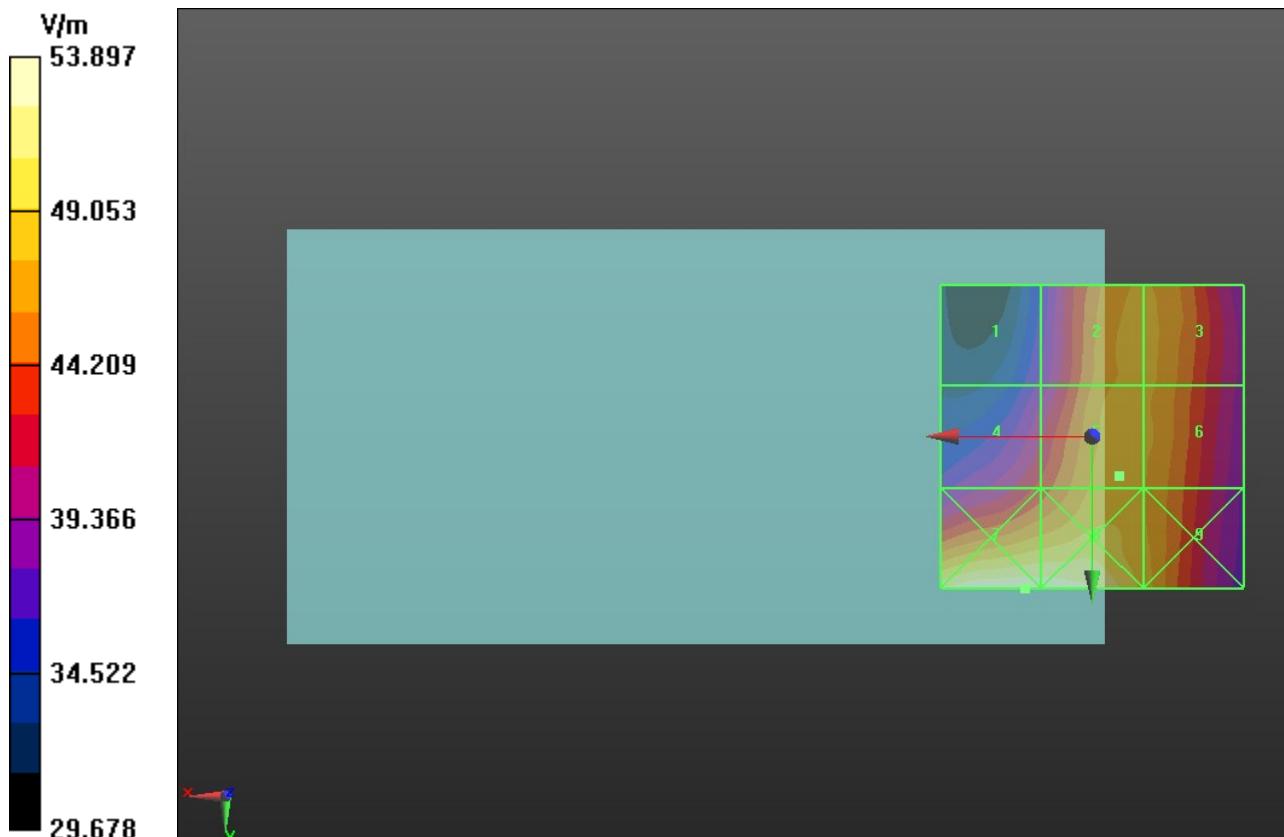
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 21.506 V/m; Power Drift = -0.19 dB

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

Peak E-field in V/m

Grid 1 38.429 M4	Grid 2 48.048 M3	Grid 3 47.982 M3
Grid 4 43.271 M4	Grid 5 48.393 M3	Grid 6 47.951 M3
Grid 7 53.897 M3	Grid 8 53.691 M3	Grid 9 48.535 M3



Test Laboratory: UL CCS SAR Lab C

GSM 1900 with Standard cover

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- 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)

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

Maximum value of peak Total field = 51.522 V/m

Probe Modulation Factor = 2.820

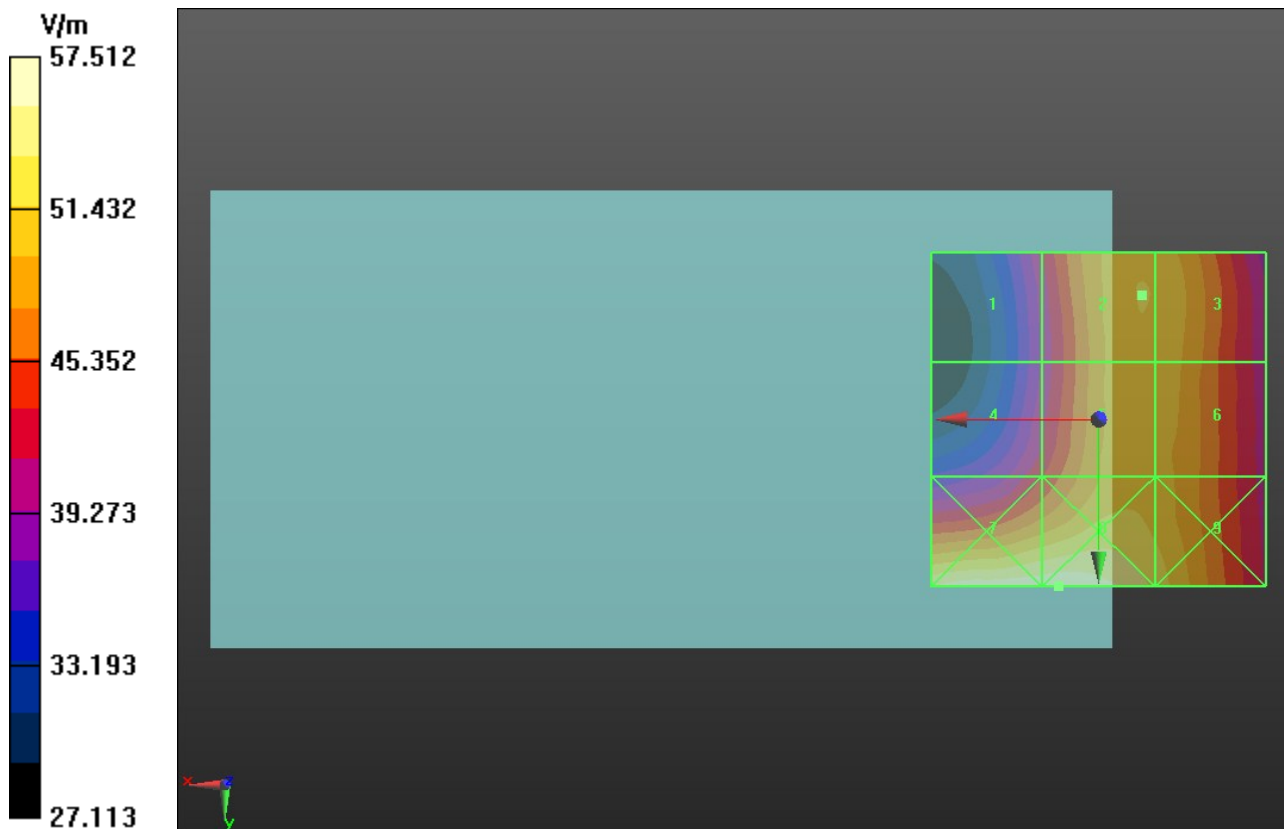
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 22.411 V/m; Power Drift = -0.03 dB

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

Peak E-field in V/m

Grid 1 41.421 M4	Grid 2 51.522 M3	Grid 3 51.333 M3
Grid 4 43.286 M4	Grid 5 51.203 M3	Grid 6 50.982 M3
Grid 7 57.142 M3	Grid 8 57.512 M3	Grid 9 52.832 M3



Test Laboratory: UL CCS SAR Lab C

W-CDMA band II with Standard cover

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012

- 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)

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

Maximum value of peak Total field = 18.537 V/m

Probe Modulation Factor = 0.960

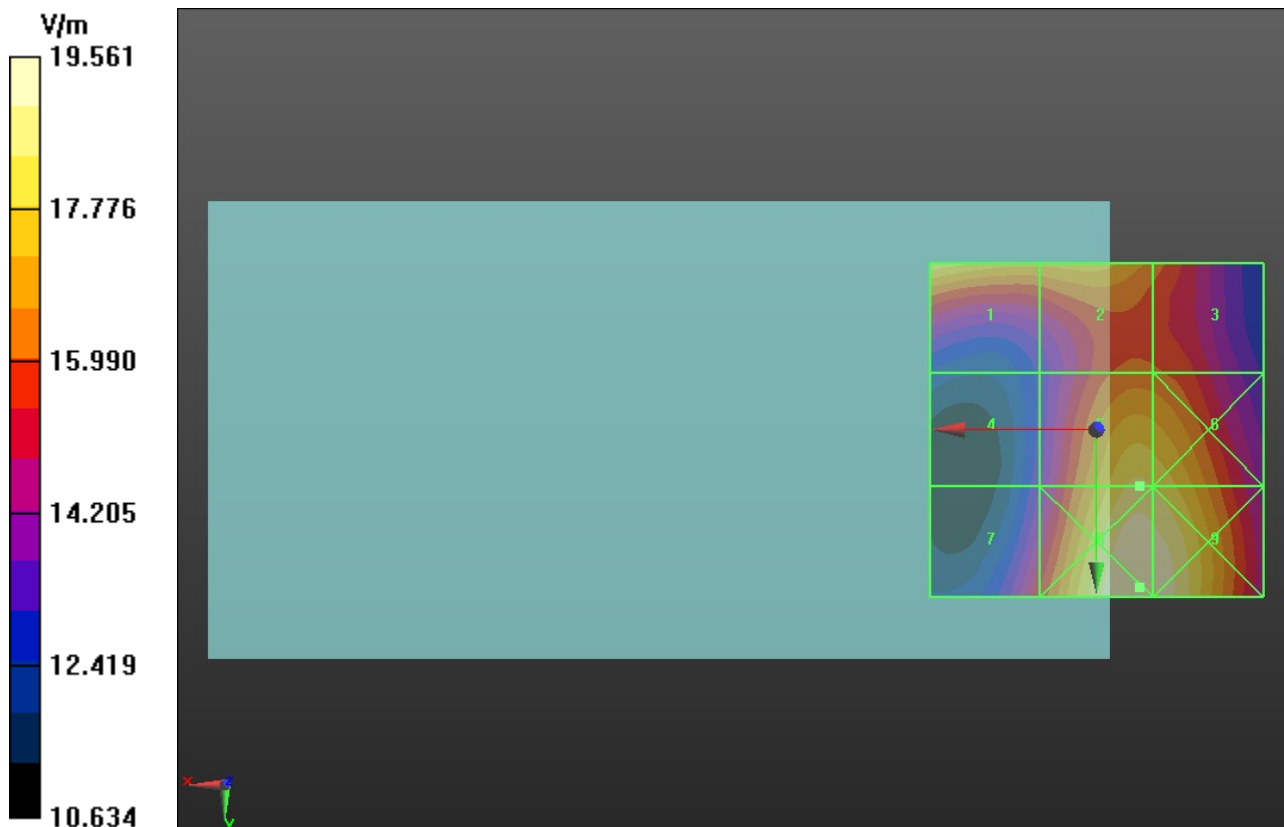
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 23.183 V/m; Power Drift = -0.06 dB

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

Peak E-field in V/m

Grid 1 18.476 M4	Grid 2 17.629 M4	Grid 3 16.397 M4
Grid 4 13.672 M4	Grid 5 18.537 M4	Grid 6 18.365 M4
Grid 7 15.524 M4	Grid 8 19.561 M4	Grid 9 19.481 M4



Test Laboratory: UL CCS SAR Lab C

W-CDMA band II with Standard cover

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012

- 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)

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

Maximum value of peak Total field = 21.627 V/m

Probe Modulation Factor = 0.960

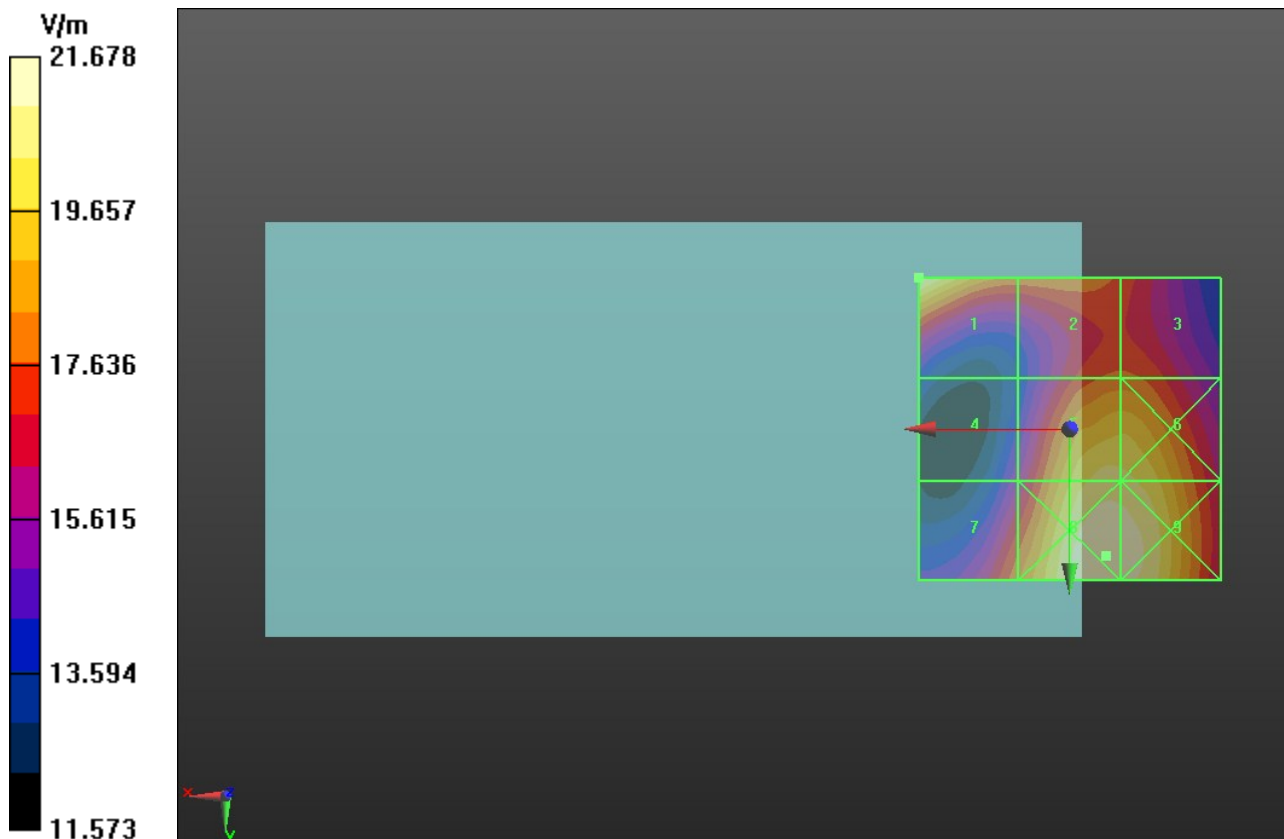
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 25.825 V/m; Power Drift = -0.10 dB

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

Peak E-field in V/m

Grid 1 21.627 M4	Grid 2 18.364 M4	Grid 3 17.857 M4
Grid 4 15.633 M4	Grid 5 20.635 M4	Grid 6 20.578 M4
Grid 7 18.263 M4	Grid 8 21.678 M4	Grid 9 21.506 M4



Test Laboratory: UL CCS SAR Lab C

W-CDMA band II with Standard cover

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- 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)

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

Maximum value of peak Total field = 26.599 V/m

Probe Modulation Factor = 0.960

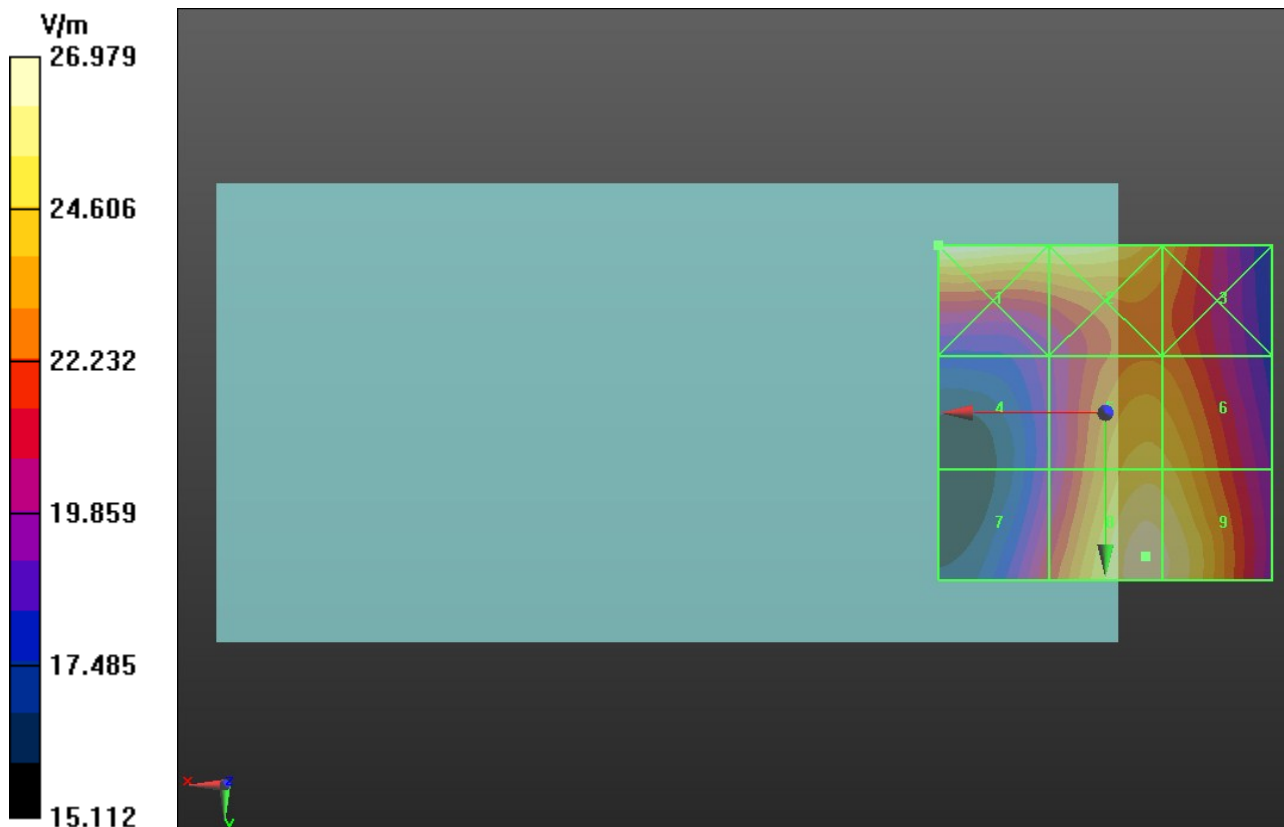
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 32.256 V/m; Power Drift = 0.09 dB

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

Peak E-field in V/m

Grid 1 26.979 M4	Grid 2 26.187 M4	Grid 3 23.813 M4
Grid 4 19.691 M4	Grid 5 25.129 M4	Grid 6 24.965 M4
Grid 7 21.602 M4	Grid 8 26.599 M4	Grid 9 26.380 M4



Test Laboratory: UL CCS SAR Lab C

CDMA BC0 with Standard cover

Communication System: CDMA2000; Frequency: 824.7 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- 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)

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

Maximum value of peak Total field = 55.962 V/m

Probe Modulation Factor = 0.950

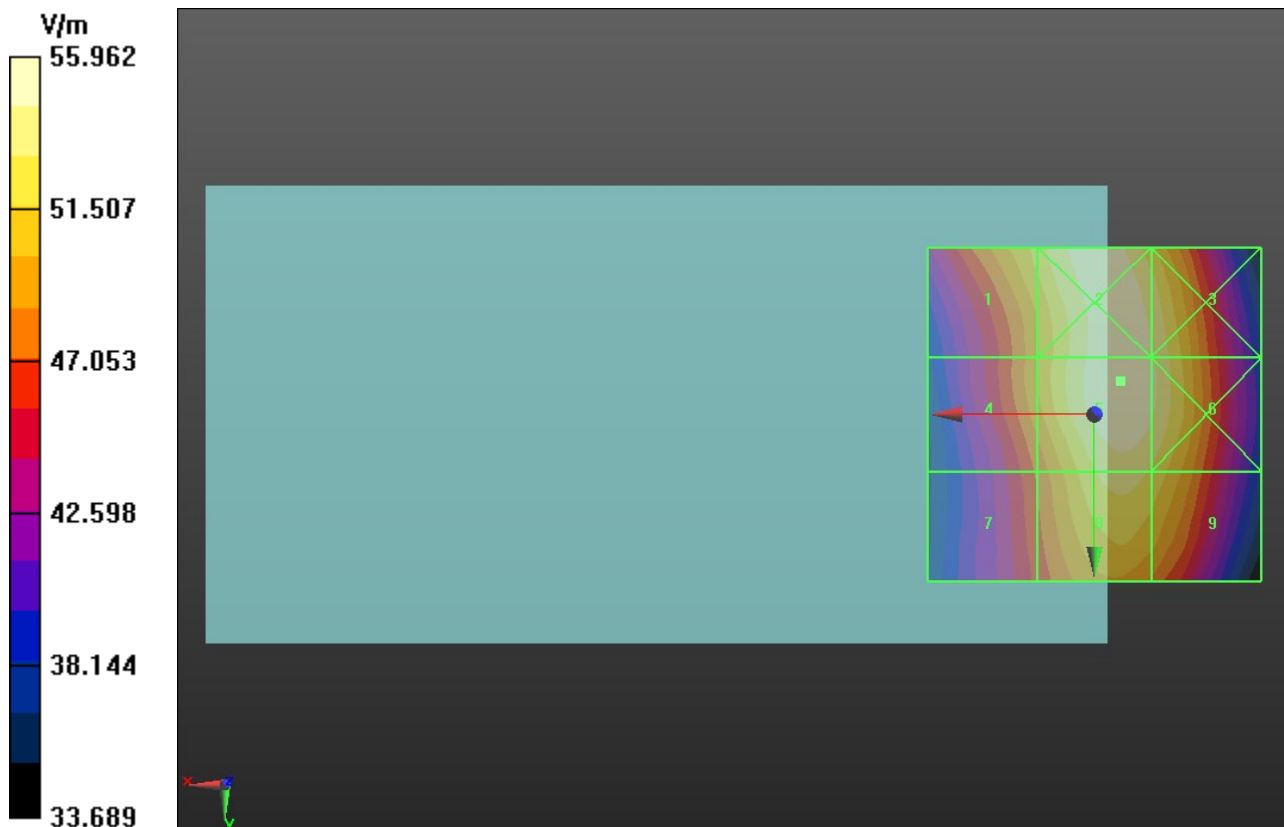
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 74.199 V/m; Power Drift = -0.03 dB

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

Peak E-field in V/m

Grid 1 52.241 M4	Grid 2 55.690 M4	Grid 3 54.697 M4
Grid 4 50.136 M4	Grid 5 55.962 M4	Grid 6 54.923 M4
Grid 7 47.473 M4	Grid 8 53.781 M4	Grid 9 52.816 M4



Test Laboratory: UL CCS SAR Lab C

CDMA BC0 with Standard cover

Communication System: CDMA2000; Frequency: 836.52 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012

- 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)

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

Maximum value of peak Total field = 55.090 V/m

Probe Modulation Factor = 0.950

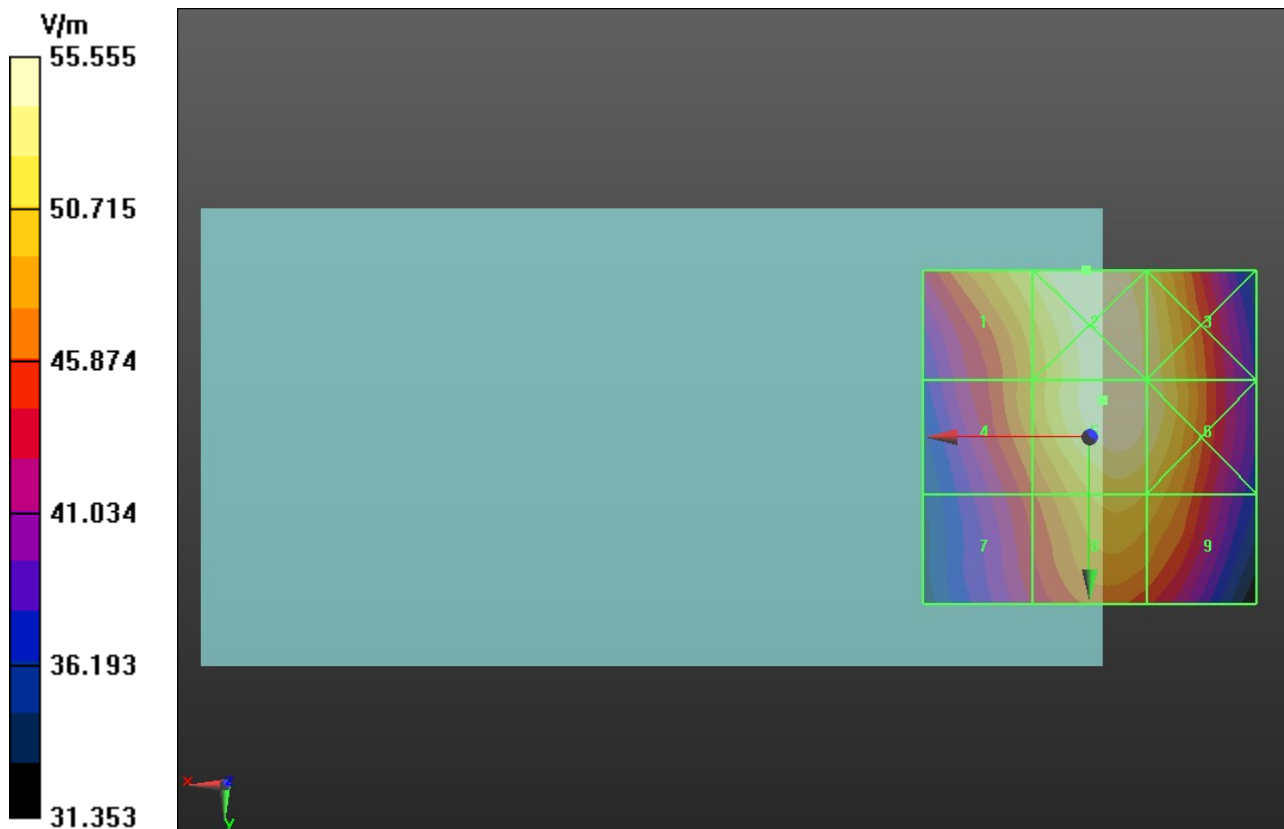
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 72.139 V/m; Power Drift = -0.06 dB

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

Peak E-field in V/m

Grid 1 52.885 M4	Grid 2 55.555 M4	Grid 3 53.845 M4
Grid 4 49.482 M4	Grid 5 55.090 M4	Grid 6 54.143 M4
Grid 7 45.626 M4	Grid 8 51.547 M4	Grid 9 50.665 M4



Test Laboratory: UL CCS SAR Lab C

CDMA BC0 with Standard cover

Communication System: CDMA2000; Frequency: 848.31 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012

- 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)

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

Maximum value of peak Total field = 54.087 V/m

Probe Modulation Factor = 0.950

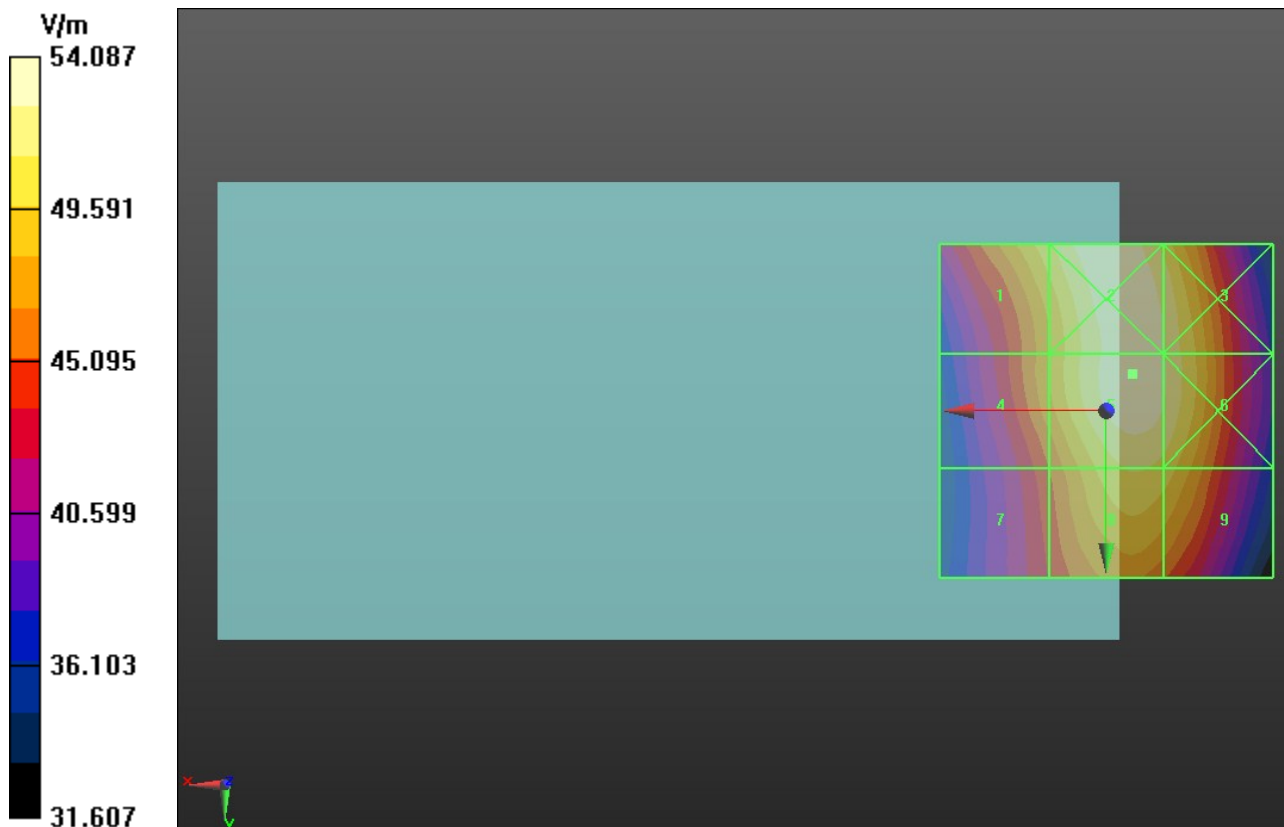
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 71.282 V/m; Power Drift = -0.0018 dB

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

Peak E-field in V/m

Grid 1 50.846 M4	Grid 2 53.836 M4	Grid 3 52.681 M4
Grid 4 48.220 M4	Grid 5 54.087 M4	Grid 6 52.846 M4
Grid 7 45.231 M4	Grid 8 51.267 M4	Grid 9 50.565 M4



Test Laboratory: UL CCS SAR Lab C

CDMA BC1 with Standard cover

Communication System: CDMA2000; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012

- 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)

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

Maximum value of peak Total field = 22.190 V/m

Probe Modulation Factor = 0.950

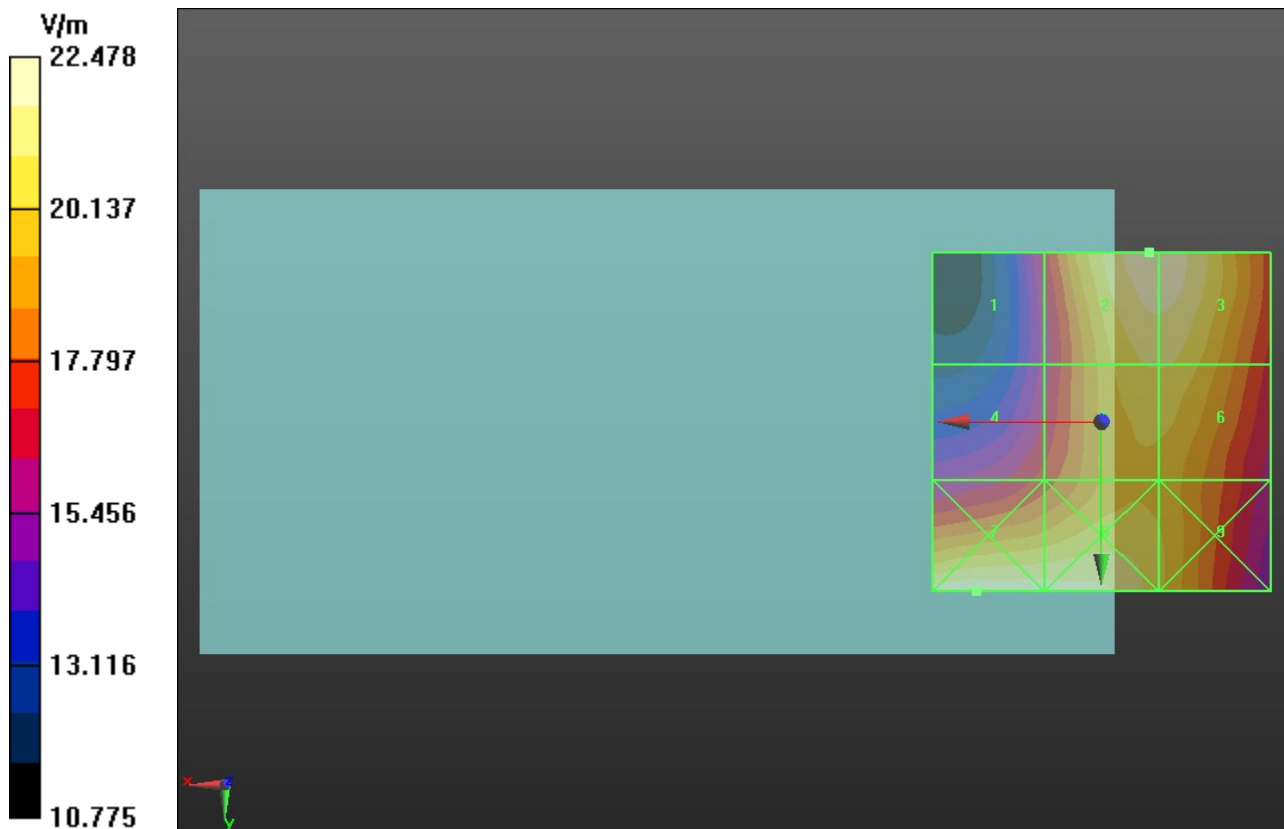
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 25.722 V/m; Power Drift = -0.06 dB

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

Peak E-field in V/m

Grid 1 16.686 M4	Grid 2 22.190 M4	Grid 3 22.168 M4
Grid 4 17.396 M4	Grid 5 21.007 M4	Grid 6 21.007 M4
Grid 7 22.478 M4	Grid 8 22.272 M4	Grid 9 20.353 M4



Test Laboratory: UL CCS SAR Lab C

CDMA BC1 with Standard cover

Communication System: CDMA2000; Frequency: 1880 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012

- 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)

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

Maximum value of peak Total field = 21.699 V/m

Probe Modulation Factor = 0.950

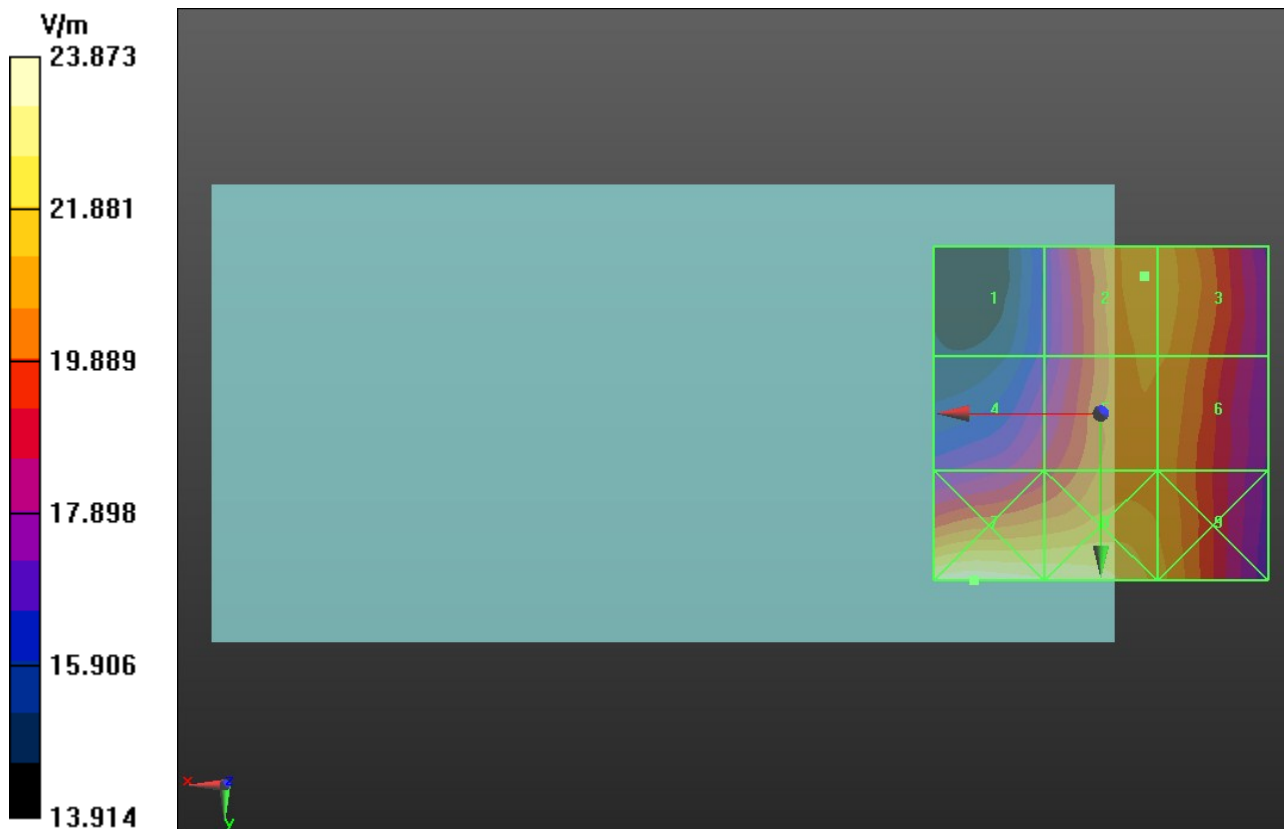
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 26.647 V/m; Power Drift = -0.05 dB

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

Peak E-field in V/m

Grid 1 16.959 M4	Grid 2 21.699 M4	Grid 3 21.579 M4
Grid 4 18.878 M4	Grid 5 21.340 M4	Grid 6 21.318 M4
Grid 7 23.873 M4	Grid 8 23.351 M4	Grid 9 21.600 M4



Test Laboratory: UL CCS SAR Lab C

CDMA BC1 with Standard cover

Communication System: CDMA2000; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012

- 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)

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

Maximum value of peak Total field = 22.411 V/m

Probe Modulation Factor = 0.950

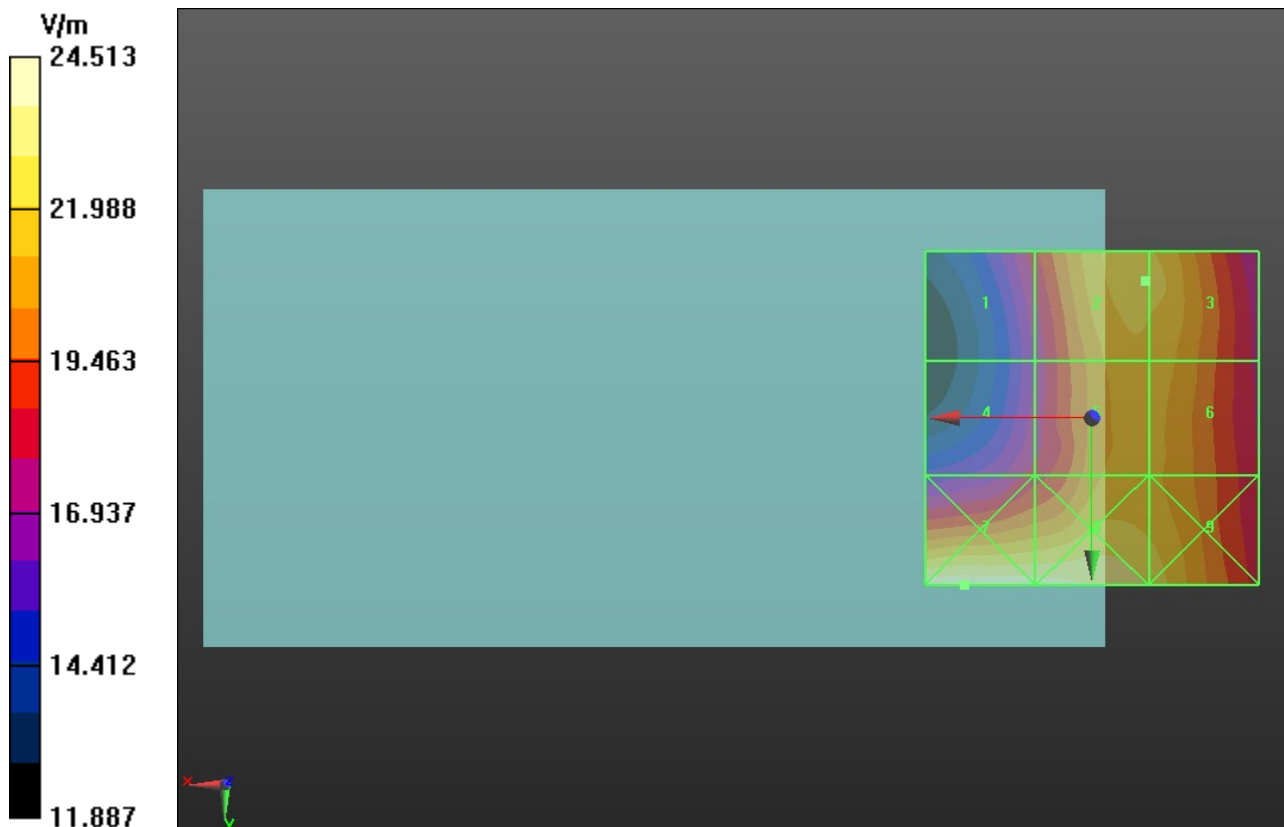
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 27.481 V/m; Power Drift = -0.07 dB

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

Peak E-field in V/m

Grid 1 18.484 M4	Grid 2 22.411 M4	Grid 3 22.401 M4
Grid 4 18.240 M4	Grid 5 21.788 M4	Grid 6 21.716 M4
Grid 7 24.513 M4	Grid 8 24.247 M4	Grid 9 22.690 M4



Test Laboratory: UL CCS SAR Lab C

GSM 850 with Wireless Charging Battery Cover

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- 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)

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

Maximum value of peak Total field = 154.6 V/m

Probe Modulation Factor = 2.790

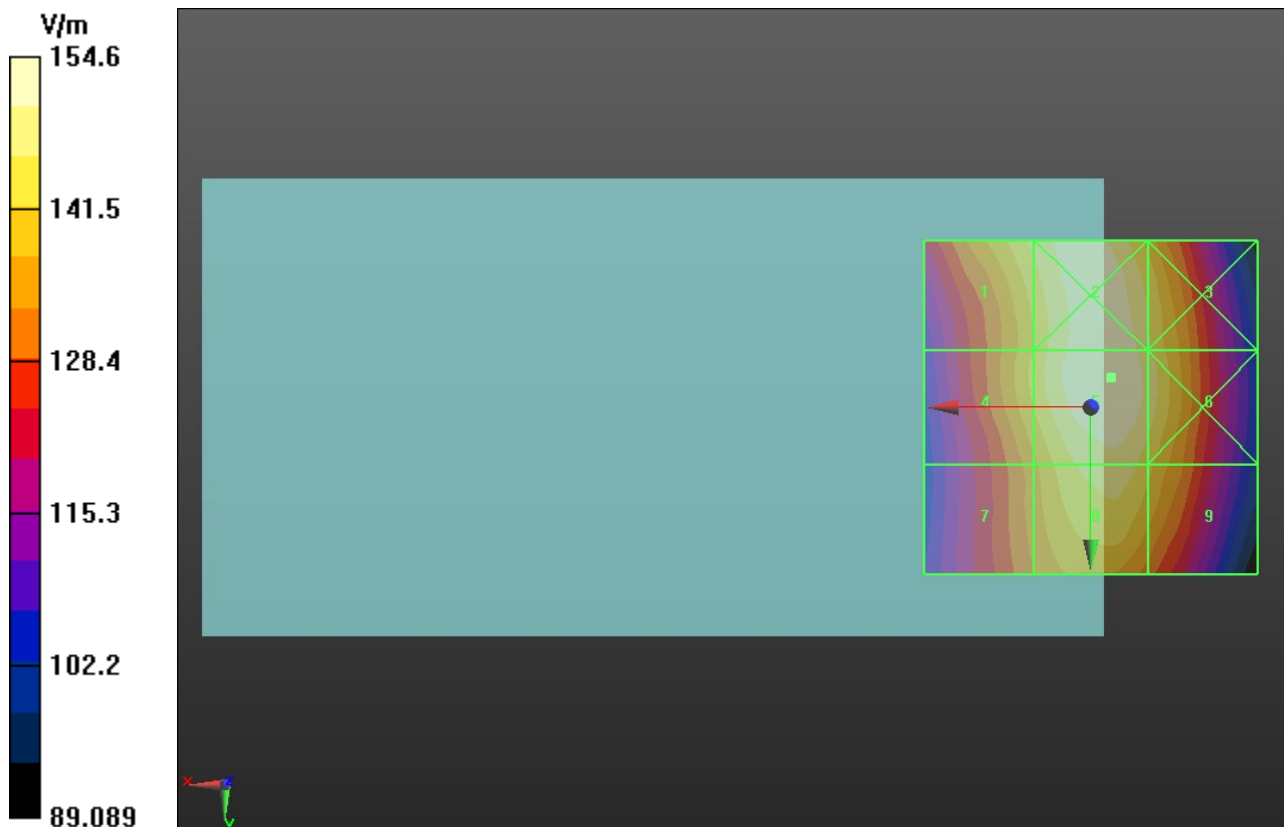
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 71.633 V/m; Power Drift = -0.02 dB

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

Peak E-field in V/m

Grid 1 147.1 M4	Grid 2 153.9 M3	Grid 3 147.2 M4
Grid 4 143.2 M4	Grid 5 154.6 M3	Grid 6 148.8 M4
Grid 7 136.2 M4	Grid 8 148.8 M4	Grid 9 143.2 M4



Test Laboratory: UL CCS SAR Lab C

GSM 850 with Wireless Charging Battery Cover

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- 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)

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

Maximum value of peak Total field = 151.0 V/m

Probe Modulation Factor = 2.790

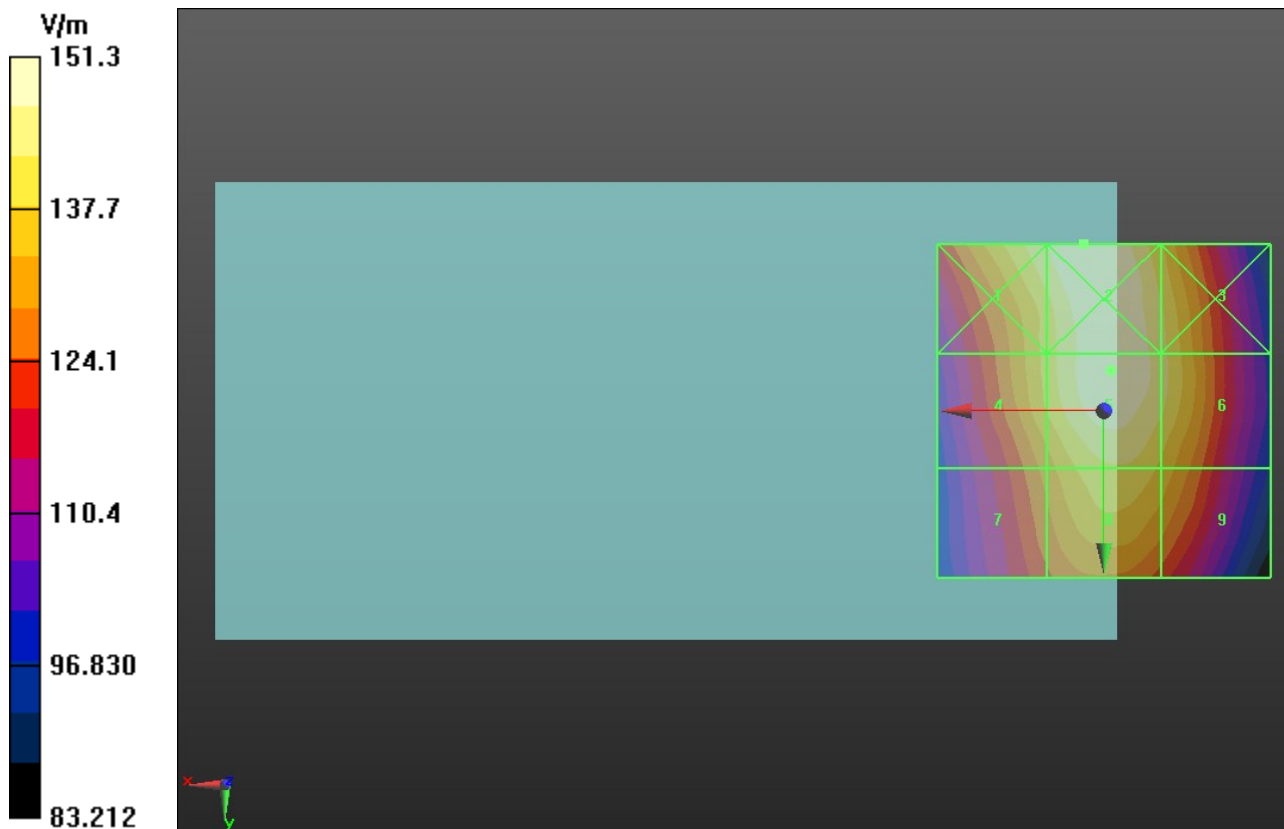
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 69.344 V/m; Power Drift = -0.07 dB

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

Peak E-field in V/m

Grid 1 146.9 M4	Grid 2 151.3 M3	Grid 3 144.2 M4
Grid 4 139.7 M4	Grid 5 151.0 M3	Grid 6 144.6 M4
Grid 7 131.1 M4	Grid 8 141.9 M4	Grid 9 136.8 M4



Test Laboratory: UL CCS SAR Lab C

GSM 850 with Wireless Charging Battery Cover

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- 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)

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

Maximum value of peak Total field = 141.3 V/m

Probe Modulation Factor = 2.790

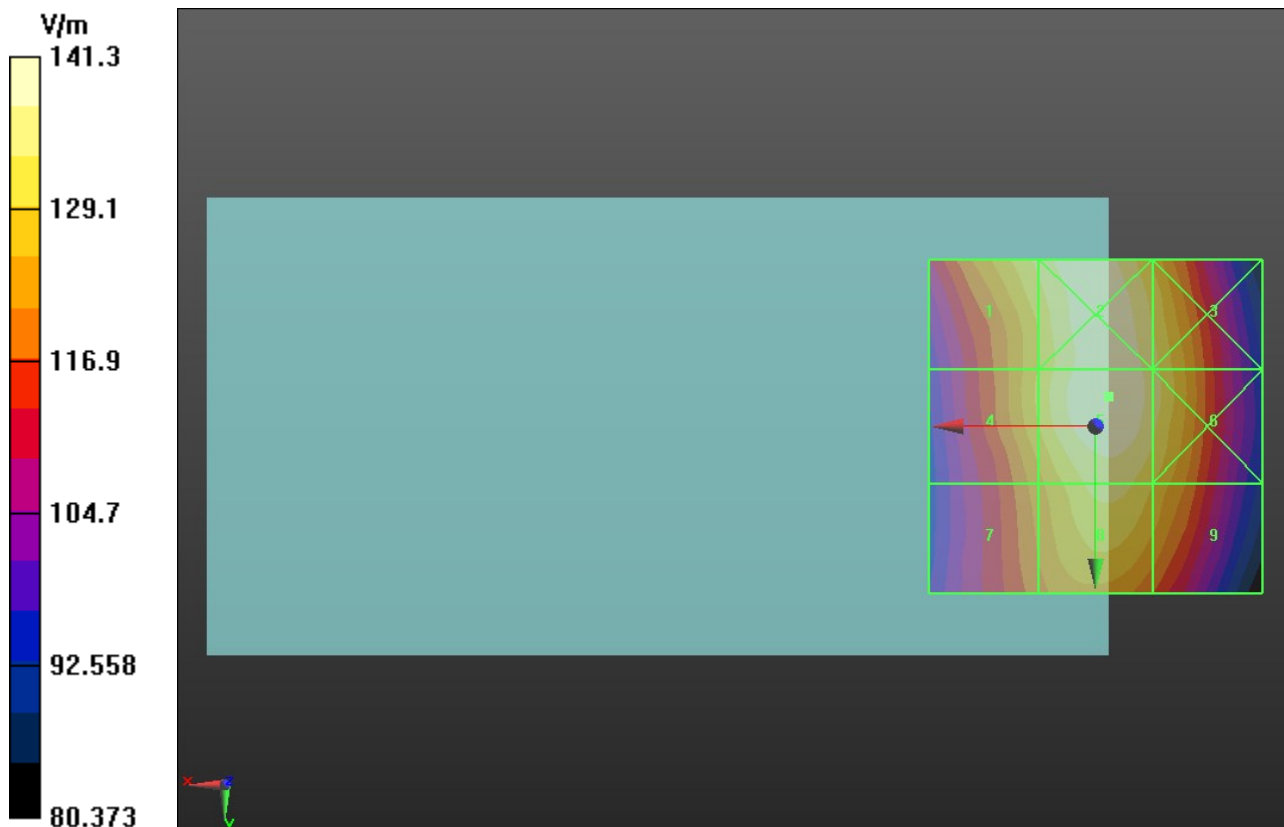
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 65.022 V/m; Power Drift = -0.0099 dB

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

Peak E-field in V/m

Grid 1 134.5 M4	Grid 2 140.5 M4	Grid 3 135.0 M4
Grid 4 130.3 M4	Grid 5 141.3 M4	Grid 6 135.8 M4
Grid 7 123.9 M4	Grid 8 134.9 M4	Grid 9 129.5 M4



Test Laboratory: UL CCS SAR Lab C

GSM 1900 with Wireless Charging Battery Cover

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- 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)

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

Maximum value of peak Total field = 46.380 V/m

Probe Modulation Factor = 2.820

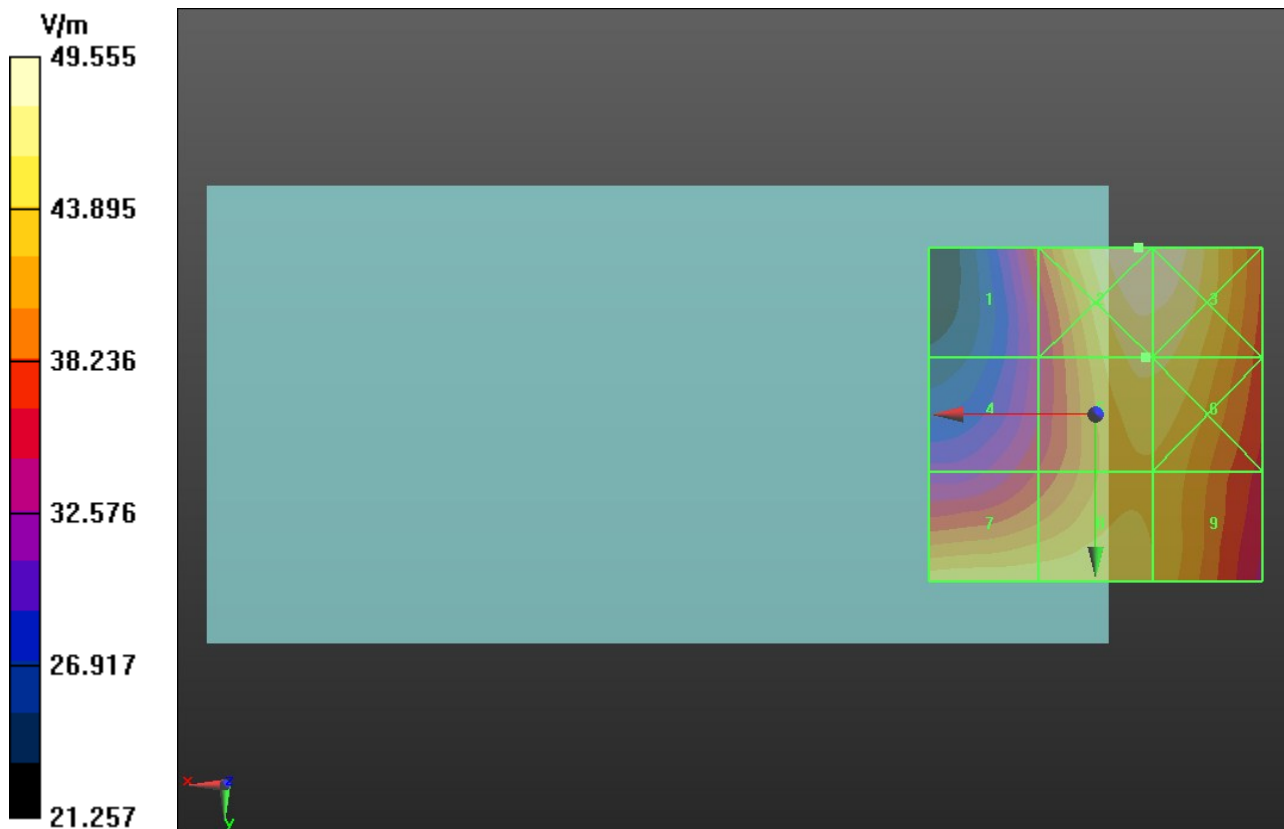
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 18.646 V/m; Power Drift = 0.0066 dB

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

Peak E-field in V/m

Grid 1 37.854 M4	Grid 2 49.555 M3	Grid 3 49.365 M3
Grid 4 36.573 M4	Grid 5 46.380 M4	Grid 6 46.328 M4
Grid 7 45.947 M4	Grid 8 45.797 M4	Grid 9 43.925 M4



Test Laboratory: UL CCS SAR Lab C

GSM 1900 with Wireless Charging Battery Cover

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- 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)

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

Maximum value of peak Total field = 46.929 V/m

Probe Modulation Factor = 2.820

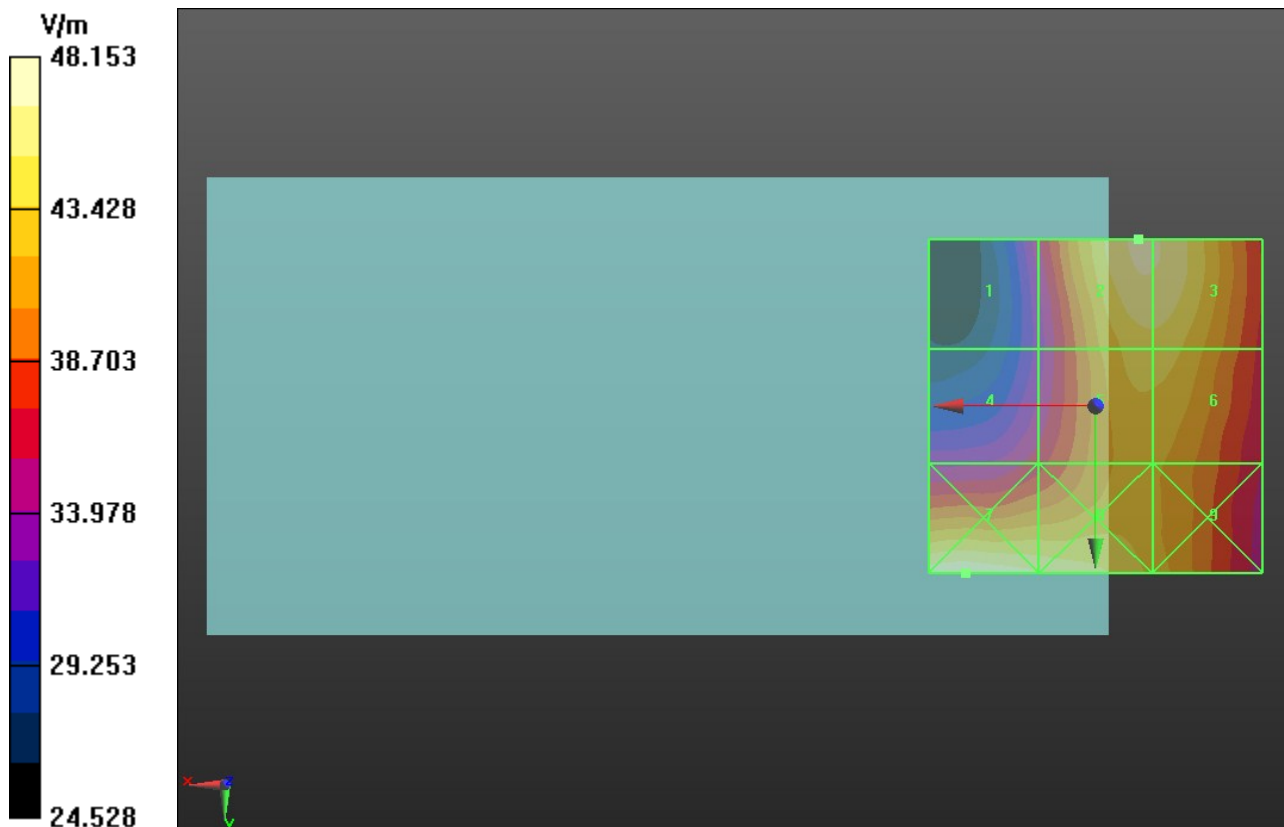
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 18.086 V/m; Power Drift = 0.06 dB

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

Peak E-field in V/m

Grid 1 35.469 M4	Grid 2 46.929 M4	Grid 3 46.797 M4
Grid 4 36.551 M4	Grid 5 44.429 M4	Grid 6 44.429 M4
Grid 7 48.153 M3	Grid 8 46.780 M4	Grid 9 43.012 M4



Test Laboratory: UL CCS SAR Lab C

GSM 1900 with Wireless Charging Battery Cover

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- 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)

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

Maximum value of peak Total field = 50.327 V/m

Probe Modulation Factor = 2.820

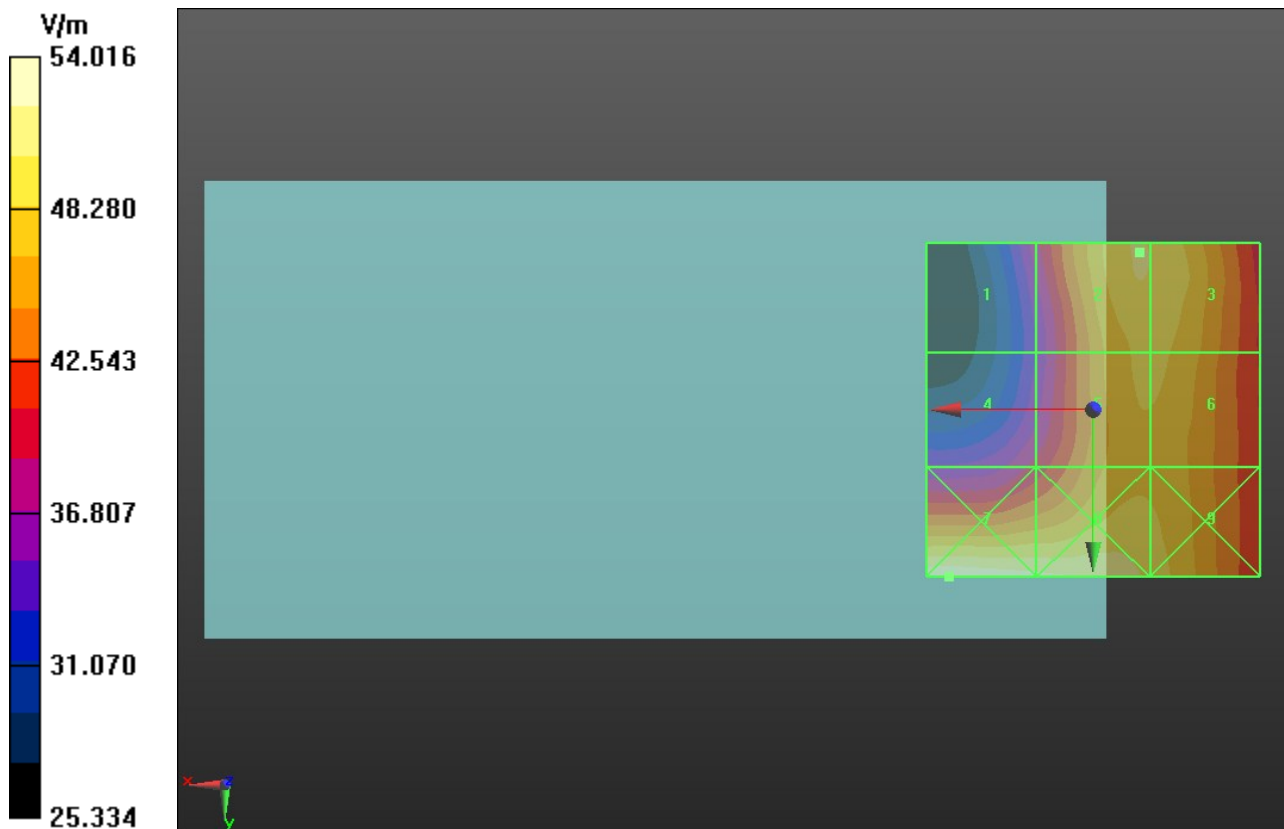
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 20.176 V/m; Power Drift = 0.0044 dB

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

Peak E-field in V/m

Grid 1 38.283 M4	Grid 2 50.327 M3	Grid 3 50.215 M3
Grid 4 39.490 M4	Grid 5 48.699 M3	Grid 6 48.695 M3
Grid 7 54.016 M3	Grid 8 52.787 M3	Grid 9 49.691 M3



Test Laboratory: UL CCS SAR Lab C

W-CDMA band II with Wireless Charging Battery Cover

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- 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)

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

Maximum value of peak Total field = 17.671 V/m

Probe Modulation Factor = 0.960

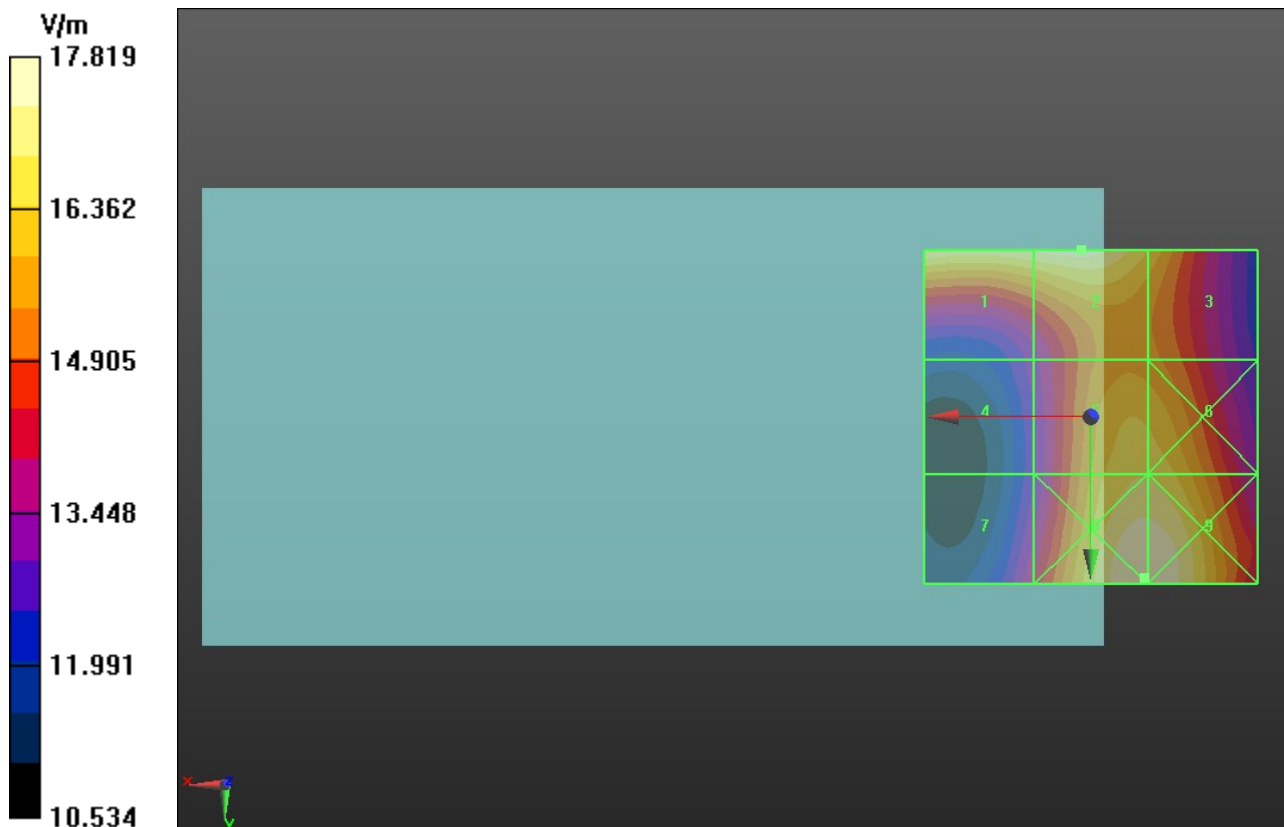
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 21.849 V/m; Power Drift = -0.14 dB

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

Peak E-field in V/m

Grid 1 17.476 M4	Grid 2 17.671 M4	Grid 3 16.432 M4
Grid 4 13.275 M4	Grid 5 16.815 M4	Grid 6 16.799 M4
Grid 7 14.020 M4	Grid 8 17.819 M4	Grid 9 17.814 M4



Test Laboratory: UL CCS SAR Lab C

W-CDMA band II with Wireless Charging Battery Cover

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- 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)

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

Maximum value of peak Total field = 19.983 V/m

Probe Modulation Factor = 0.960

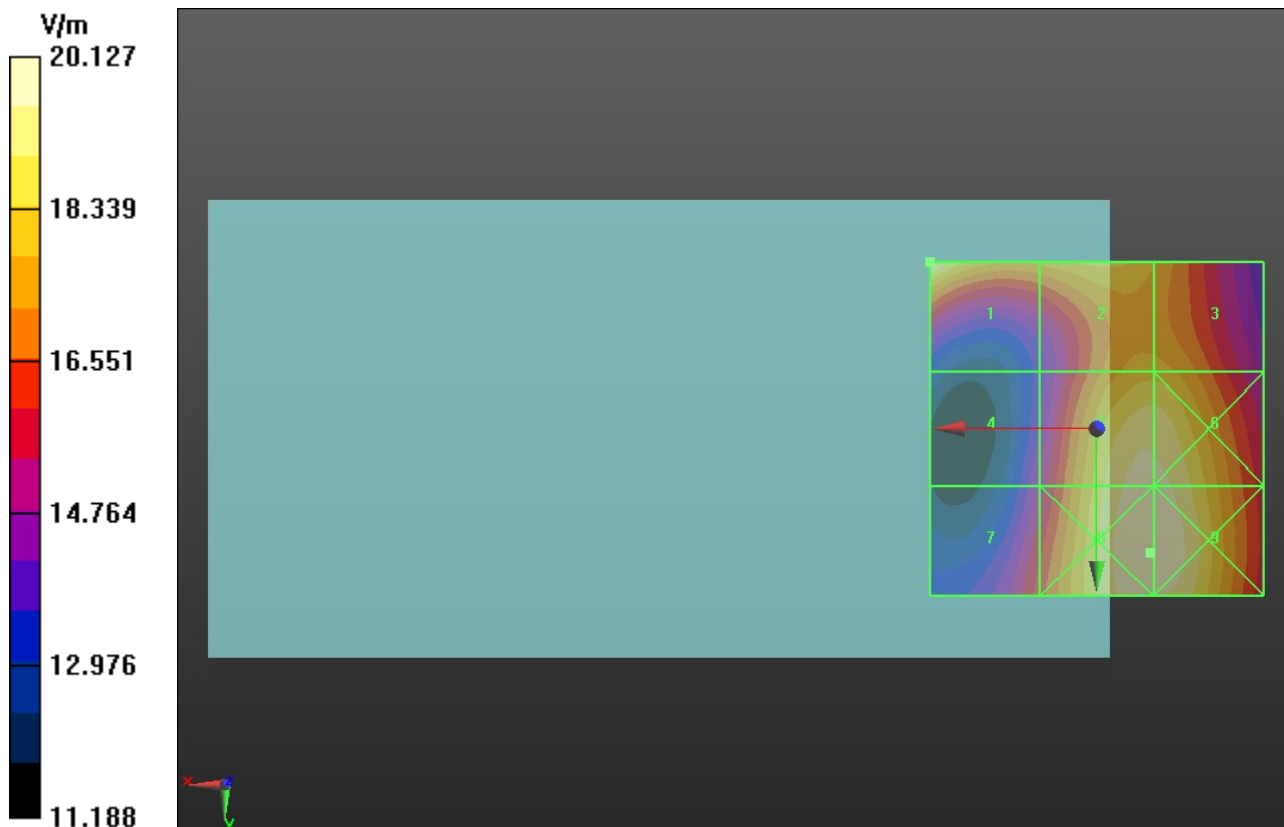
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 25.283 V/m; Power Drift = -0.06 dB

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

Peak E-field in V/m

Grid 1 19.983 M4	Grid 2 18.527 M4	Grid 3 18.088 M4
Grid 4 14.986 M4	Grid 5 19.826 M4	Grid 6 19.798 M4
Grid 7 16.292 M4	Grid 8 20.127 M4	Grid 9 20.120 M4



Test Laboratory: UL CCS SAR Lab C

W-CDMA band II with Wireless Charging Battery Cover

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- 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)

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

Maximum value of peak Total field = 24.151 V/m

Probe Modulation Factor = 0.960

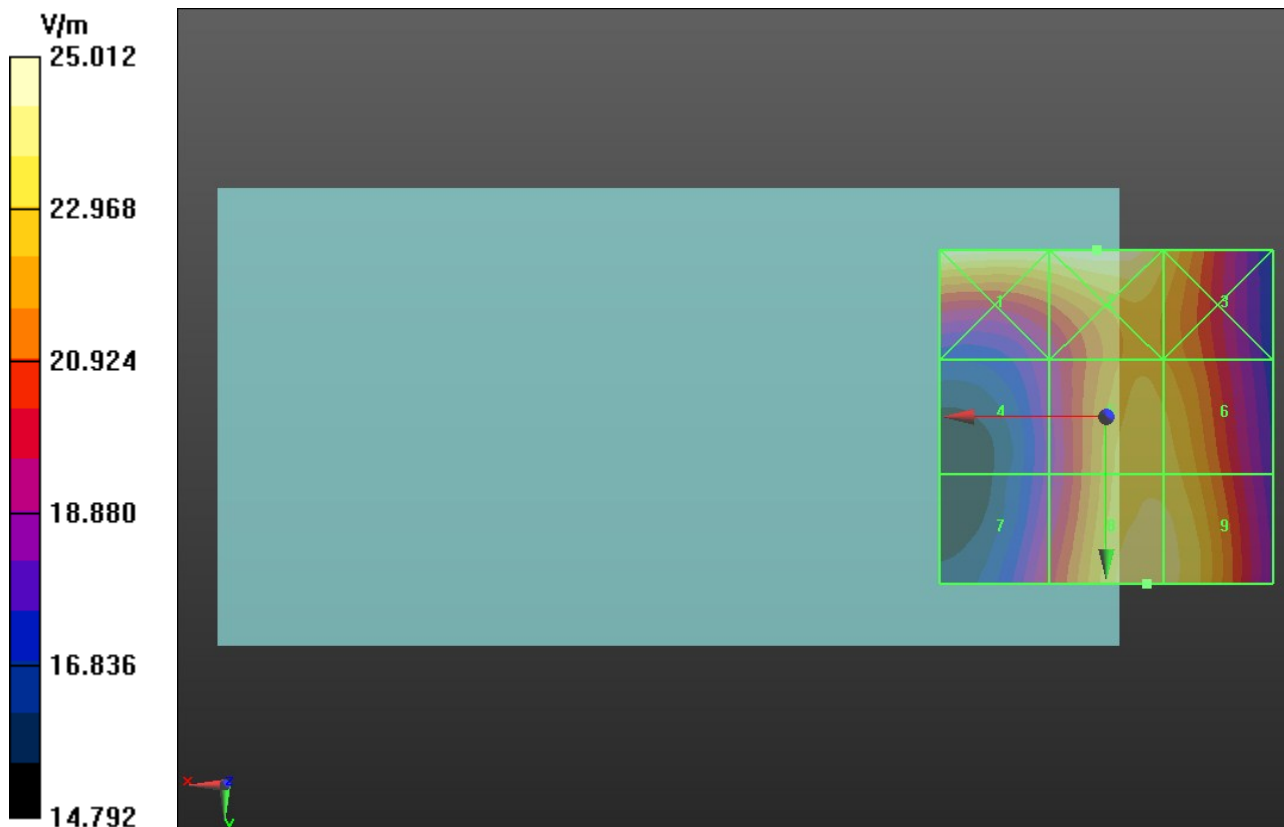
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 30.744 V/m; Power Drift = 0.03 dB

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

Peak E-field in V/m

Grid 1 24.991 M4	Grid 2 25.012 M4	Grid 3 23.309 M4
Grid 4 19.046 M4	Grid 5 23.491 M4	Grid 6 23.410 M4
Grid 7 19.974 M4	Grid 8 24.151 M4	Grid 9 24.004 M4



Test Laboratory: UL CCS SAR Lab C

CDMA BC0 with Wireless Charging Battery Cover

Communication System: CDMA2000; Frequency: 824.7 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012

- 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)

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

Maximum value of peak Total field = 54.861 V/m

Probe Modulation Factor = 0.950

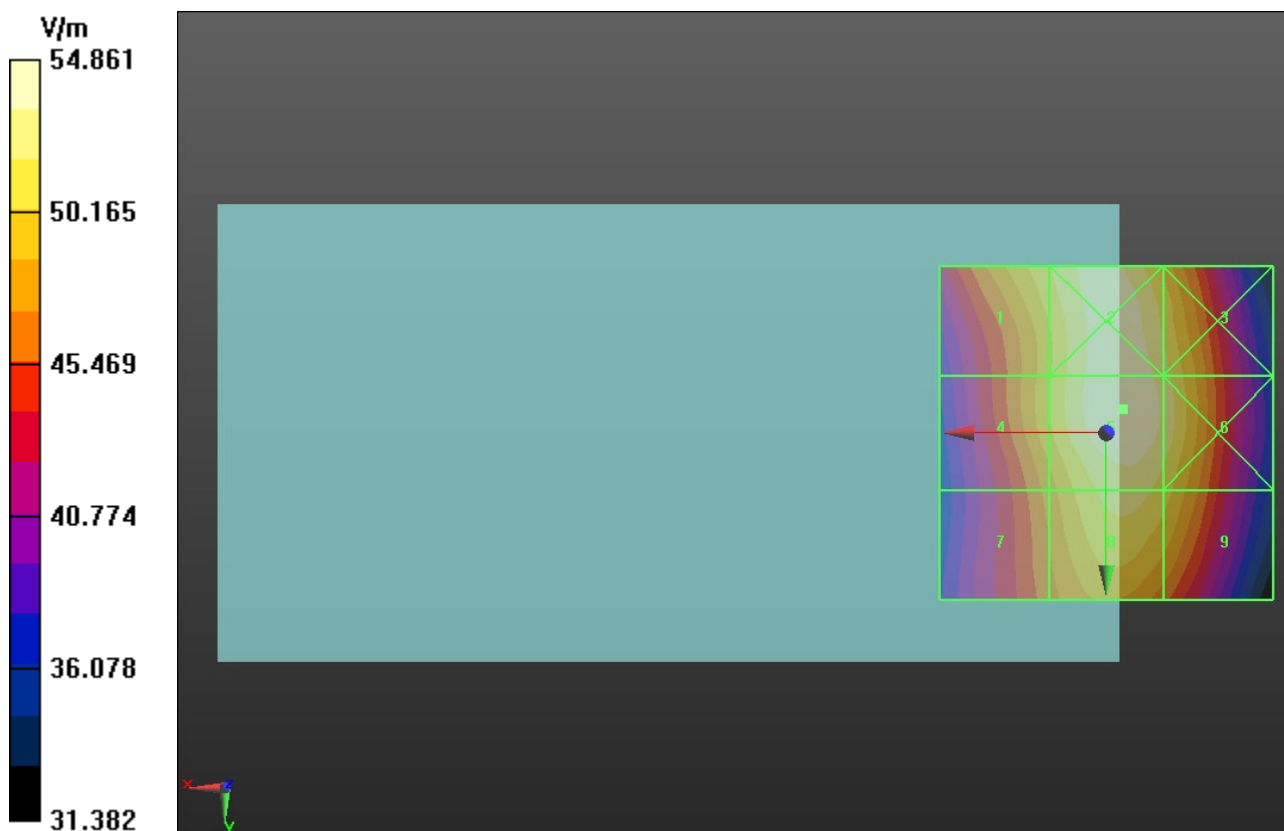
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 74.081 V/m; Power Drift = 0.0069 dB

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

Peak E-field in V/m

Grid 1 51.724 M4	Grid 2 54.550 M4	Grid 3 52.486 M4
Grid 4 50.273 M4	Grid 5 54.861 M4	Grid 6 52.966 M4
Grid 7 47.914 M4	Grid 8 52.514 M4	Grid 9 51.019 M4



Test Laboratory: UL CCS SAR Lab C

CDMA BC0 with Wireless Charging Battery Cover

Communication System: CDMA2000; Frequency: 836.52 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- 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)

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

Maximum value of peak Total field = 52.818 V/m

Probe Modulation Factor = 0.950

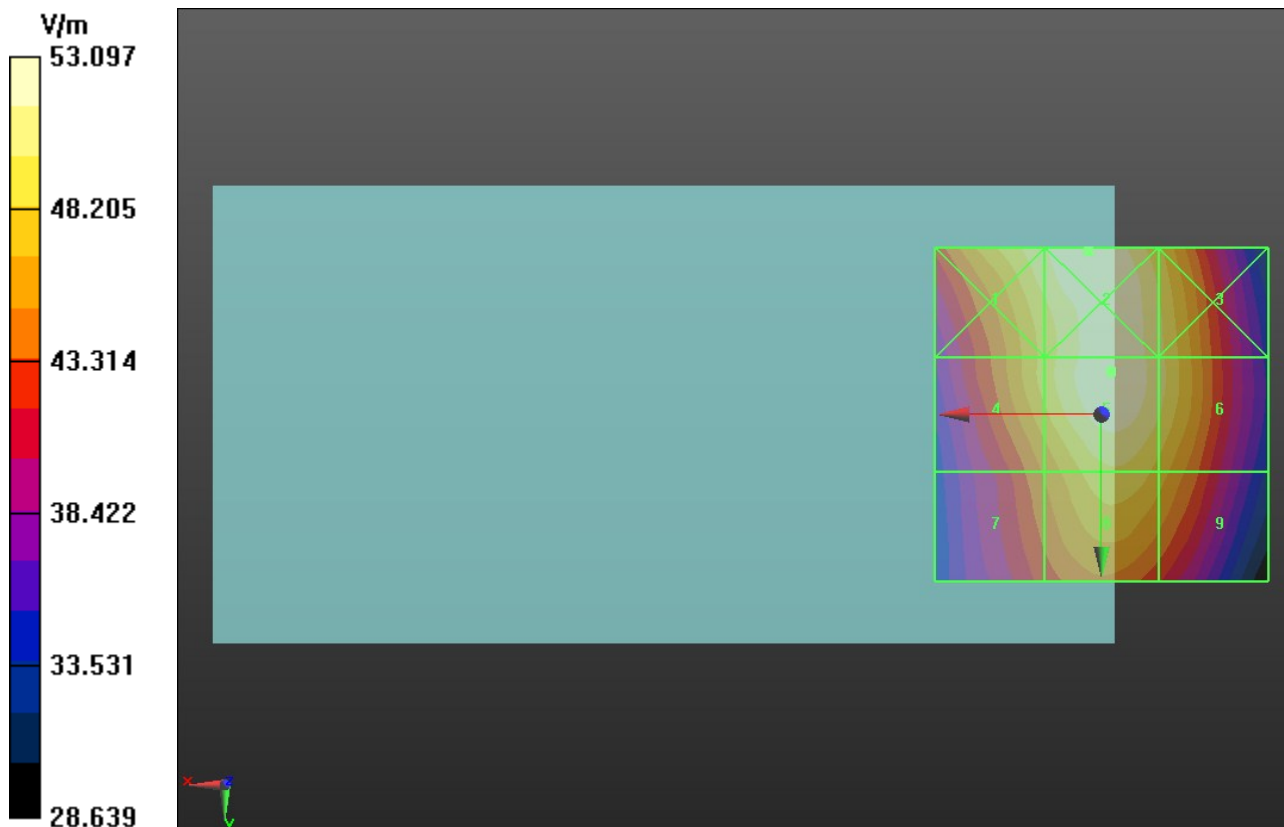
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 70.995 V/m; Power Drift = 0.02 dB

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

Peak E-field in V/m

Grid 1 51.413 M4	Grid 2 53.097 M4	Grid 3 50.473 M4
Grid 4 49.010 M4	Grid 5 52.818 M4	Grid 6 50.615 M4
Grid 7 45.293 M4	Grid 8 49.624 M4	Grid 9 47.585 M4



Test Laboratory: UL CCS SAR Lab C

CDMA BC0 with Wireless Charging Battery Cover

Communication System: CDMA2000; Frequency: 848.31 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- 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)

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

Maximum value of peak Total field = 51.828 V/m

Probe Modulation Factor = 0.950

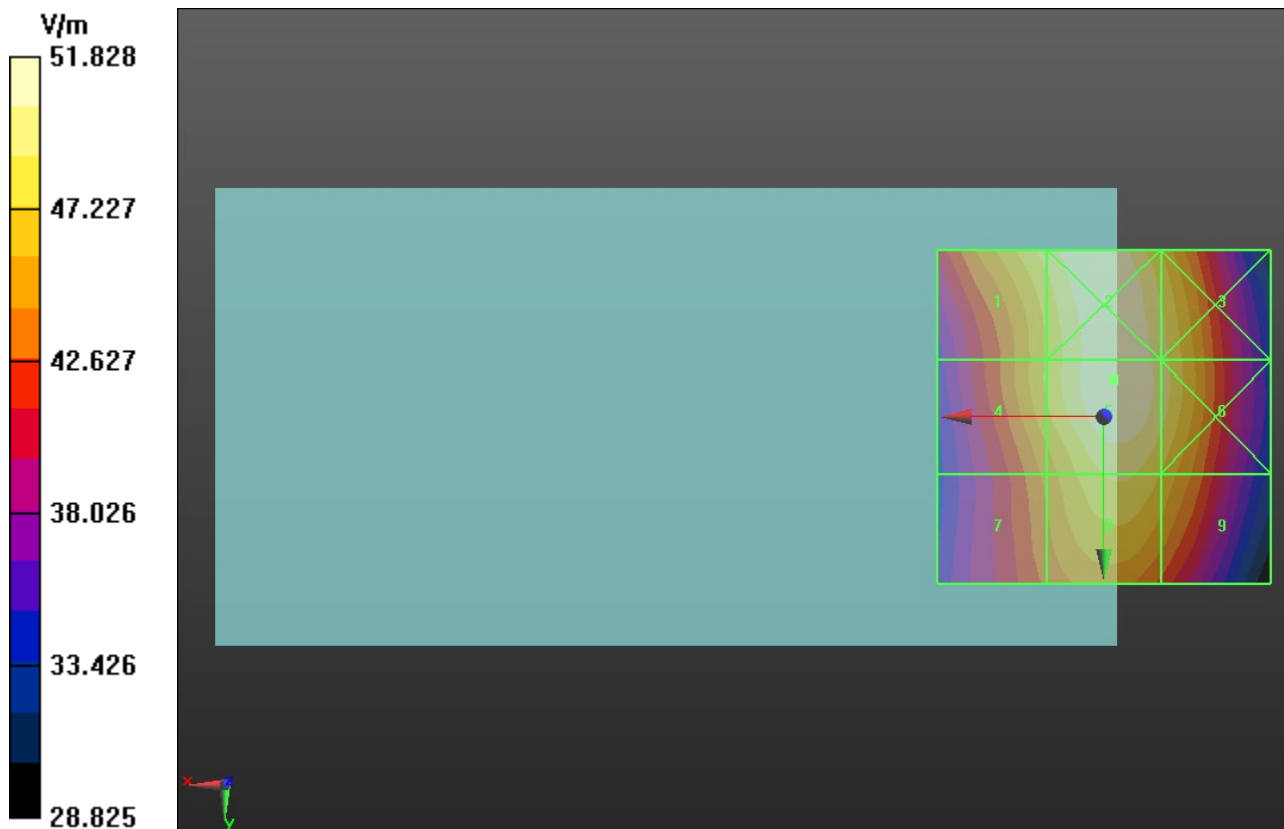
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 70.000 V/m; Power Drift = -0.02 dB

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

Peak E-field in V/m

Grid 1 49.542 M4	Grid 2 51.698 M4	Grid 3 49.563 M4
Grid 4 47.575 M4	Grid 5 51.828 M4	Grid 6 49.750 M4
Grid 7 44.817 M4	Grid 8 49.063 M4	Grid 9 47.242 M4



Test Laboratory: UL CCS SAR Lab C

CDMA BC1 with Wireless Charging Battery Cover

Communication System: CDMA2000; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012

- 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)

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

Maximum value of peak Total field = 21.406 V/m

Probe Modulation Factor = 0.950

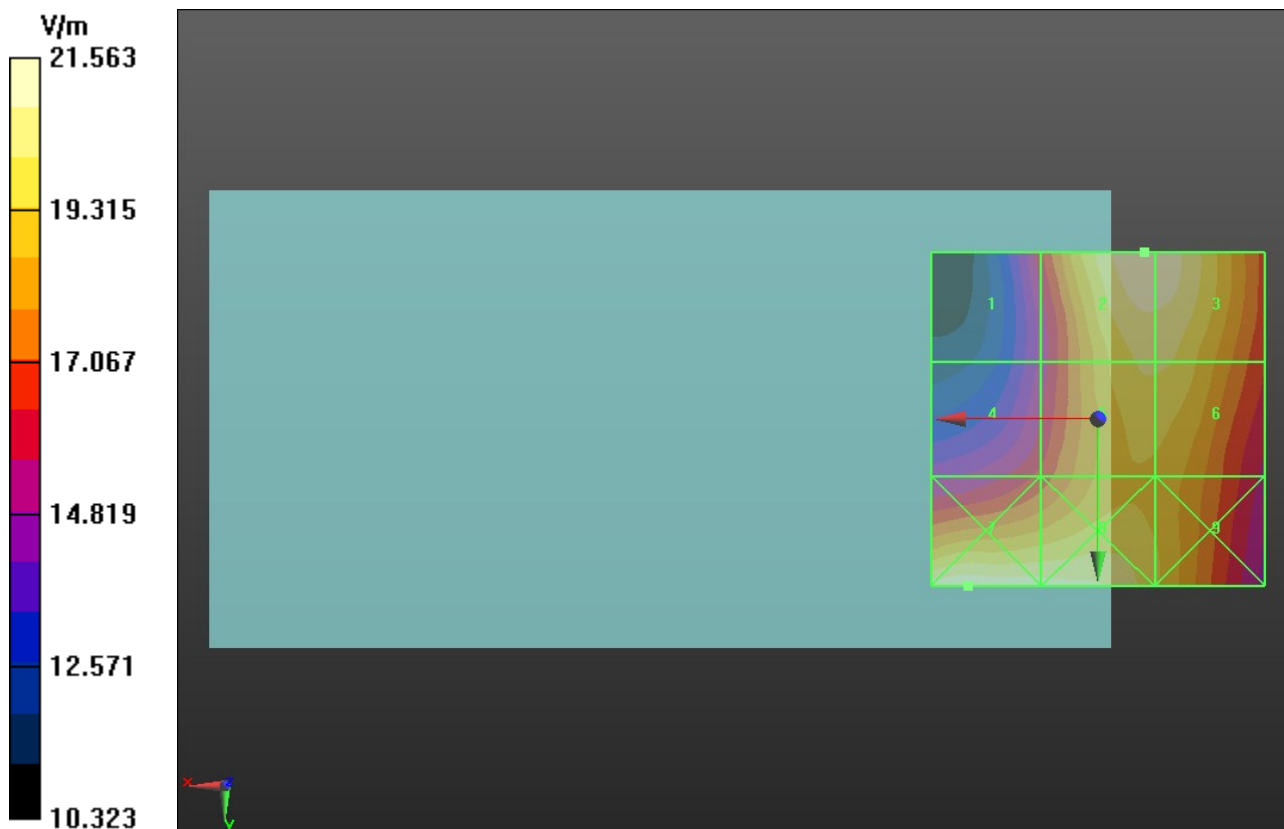
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 24.448 V/m; Power Drift = -0.0074 dB

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

Peak E-field in V/m

Grid 1 16.285 M4	Grid 2 21.406 M4	Grid 3 21.355 M4
Grid 4 16.629 M4	Grid 5 20.238 M4	Grid 6 20.238 M4
Grid 7 21.563 M4	Grid 8 21.251 M4	Grid 9 19.514 M4



Test Laboratory: UL CCS SAR Lab C

CDMA BC1 with Wireless Charging Battery Cover

Communication System: CDMA2000; Frequency: 1880 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- 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)

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

Maximum value of peak Total field = 22.148 V/m

Probe Modulation Factor = 0.950

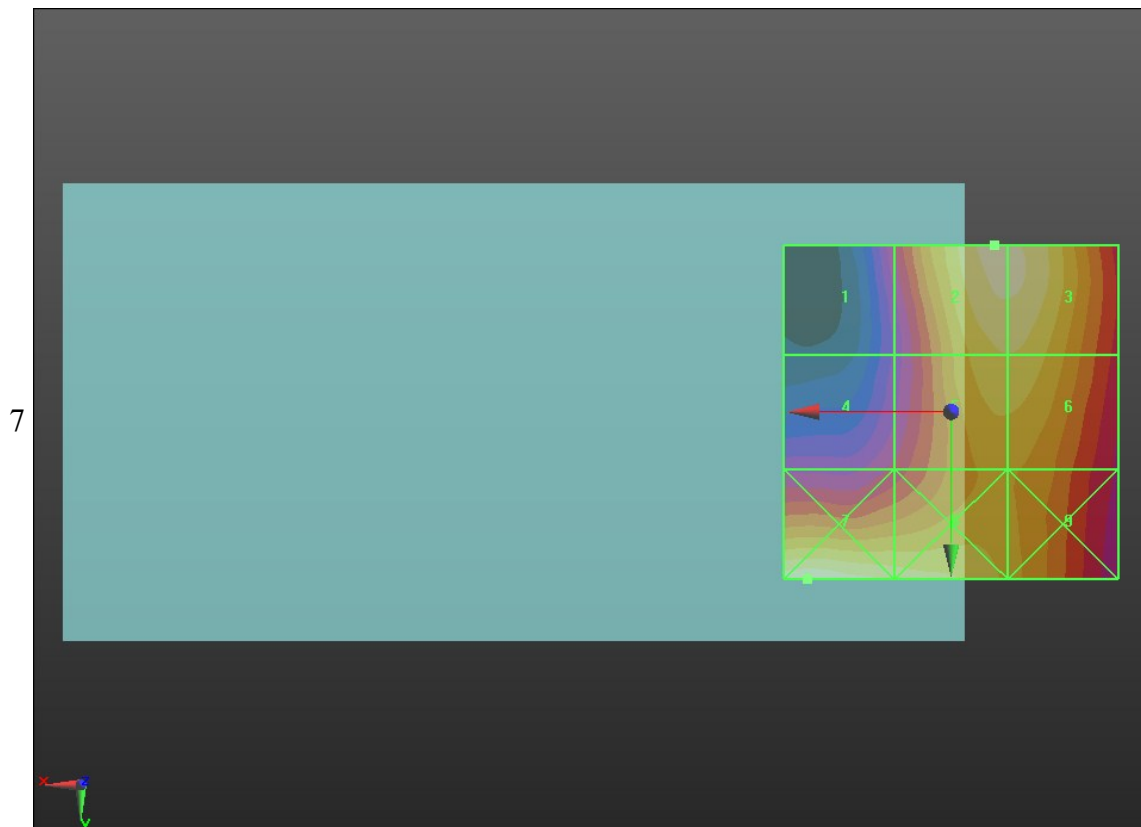
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 25.646 V/m; Power Drift = -0.17 dB

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

Peak E-field in V/m

Grid 1 16.904 M4	Grid 2 22.148 M4	Grid 3 22.058 M4
Grid 4 17.086 M4	Grid 5 21.091 M4	Grid 6 21.091 M4
Grid 7 22.529 M4	Grid 8 21.708 M4	Grid 9 20.127 M4



Test Laboratory: UL CCS SAR Lab C

CDMA BC1 with Wireless Charging Battery Cover

Communication System: CDMA2000; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- 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)

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

Maximum value of peak Total field = 21.983 V/m

Probe Modulation Factor = 0.950

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 26.194 V/m; Power Drift = -0.03 dB

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

Peak E-field in V/m

Grid 1 16.502 M4	Grid 2 21.983 M4	Grid 3 21.975 M4
Grid 4 16.564 M4	Grid 5 21.278 M4	Grid 6 21.254 M4
Grid 7 22.612 M4	Grid 8 22.548 M4	Grid 9 21.445 M4

