Date: 6/6/2012

Test Laboratory: UL CCS SAR Lab C

System Validation

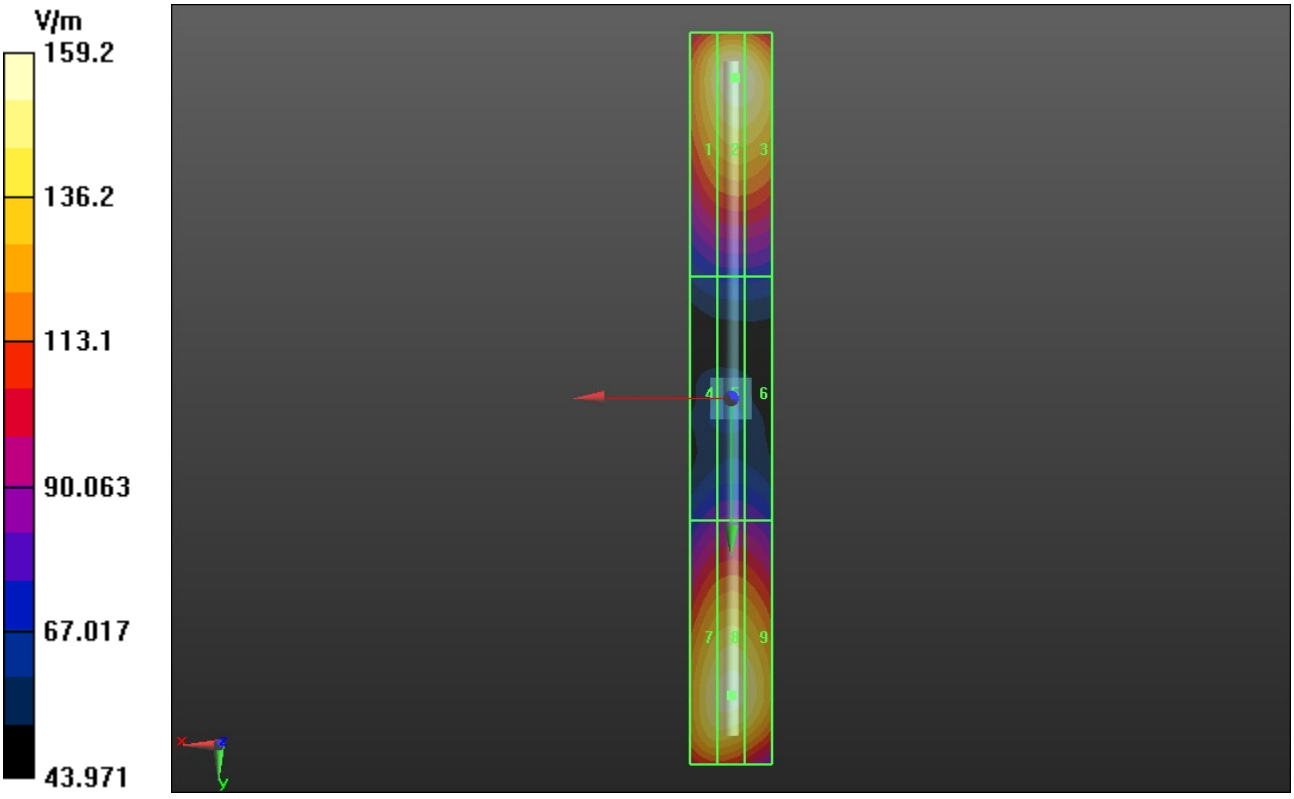
Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1
Phantom section: RF Section
DASY4 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0);SEMCAD X Version 14.6.4 (4989)

CD835V3, E-Field/Measurement distance from the probe sensor center to Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 117.3 V/m; Power Drift = -0.01 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 159.2 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **150.2 V/m**	Grid 2 **M4** **159.2 V/m**	Grid 3 **M4** **157.5 V/m**
Grid 4 **M4** **83.15 V/m**	Grid 5 **M4** **85.33 V/m**	Grid 6 **M4** **84.08 V/m**
Grid 7 **M4** **152.3 V/m**	Grid 8 **M4** **154.9 V/m**	Grid 9 **M4** **151.9 V/m**



Date: 6/6/2012

Test Laboratory: UL CCS SAR Lab C

System Validation

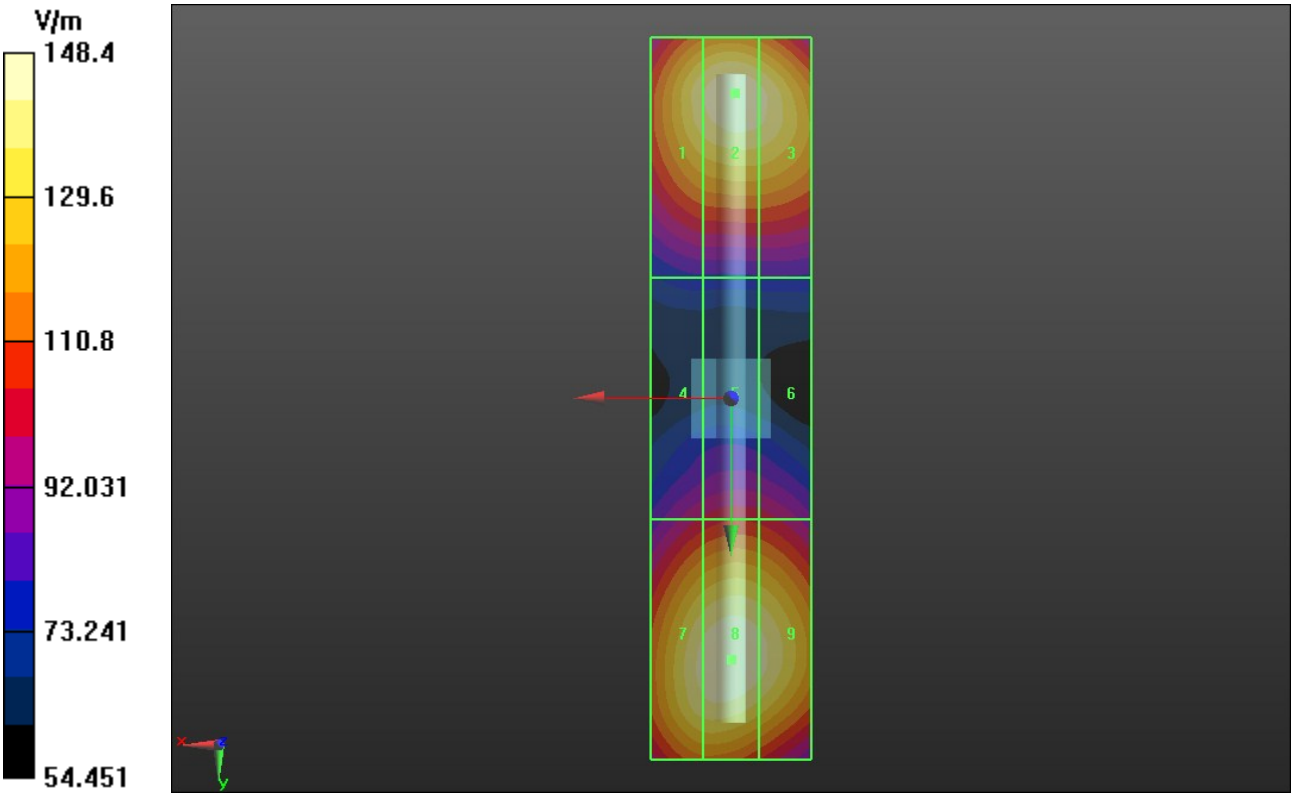
Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1
Phantom section: RF Section
DASY4 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0);SEMCAD X Version 14.6.4 (4989)

CD1730V3, E-Field/E Scan - measurement distance from the probe sensor center to CD1730 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 152.0 V/m; Power Drift = -0.02 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 148.4 V/m
Near-field category: M2 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M2** **141.9 V/m**	Grid 2 **M2** **148.4 V/m**	Grid 3 **M2** **144.9 V/m**
Grid 4 **M3** **99.75 V/m**	Grid 5 **M3** **104.2 V/m**	Grid 6 **M3** **102.6 V/m**
Grid 7 **M2** **144.7 V/m**	Grid 8 **M2** **148.3 V/m**	Grid 9 **M2** **144.8 V/m**



Date: 6/6/2012

Test Laboratory: UL CCS SAR Lab C

System Validation

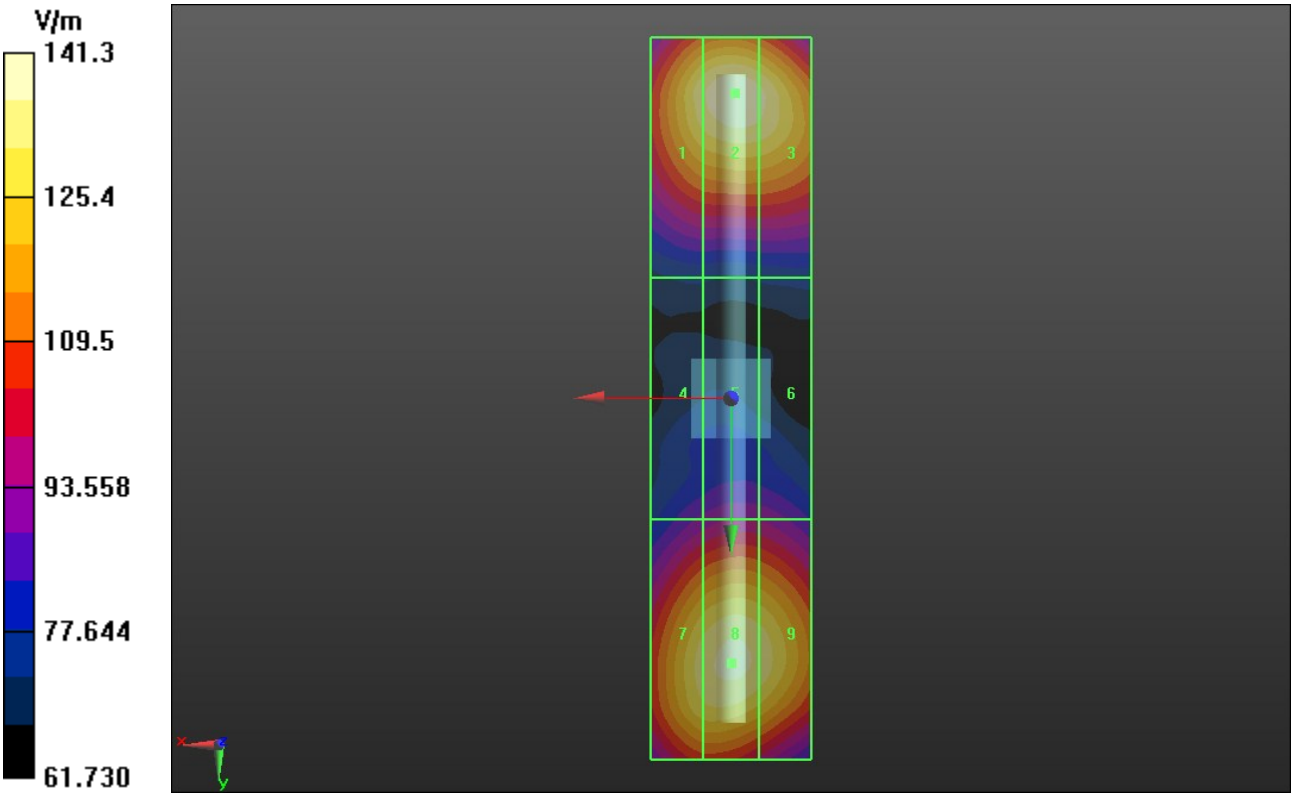
Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1
Phantom section: RF Section
DASY4 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0);SEMCAD X Version 14.6.4 (4989)

CD1880V3, E-Field/Measurement distance from the probe sensor center to Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 140.3 V/m; Power Drift = 0.01 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 141.3 V/m
Near-field category: M2 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M2** **135.1 V/m**	Grid 2 **M2** **141.3 V/m**	Grid 3 **M2** **138.0 V/m**
Grid 4 **M3** **89.93 V/m**	Grid 5 **M3** **94.15 V/m**	Grid 6 **M3** **93.07 V/m**
Grid 7 **M2** **133.8 V/m**	Grid 8 **M2** **137.5 V/m**	Grid 9 **M2** **134.7 V/m**



Date: 6/6/2012

Test Laboratory: UL CCS SAR Lab C

System Validation

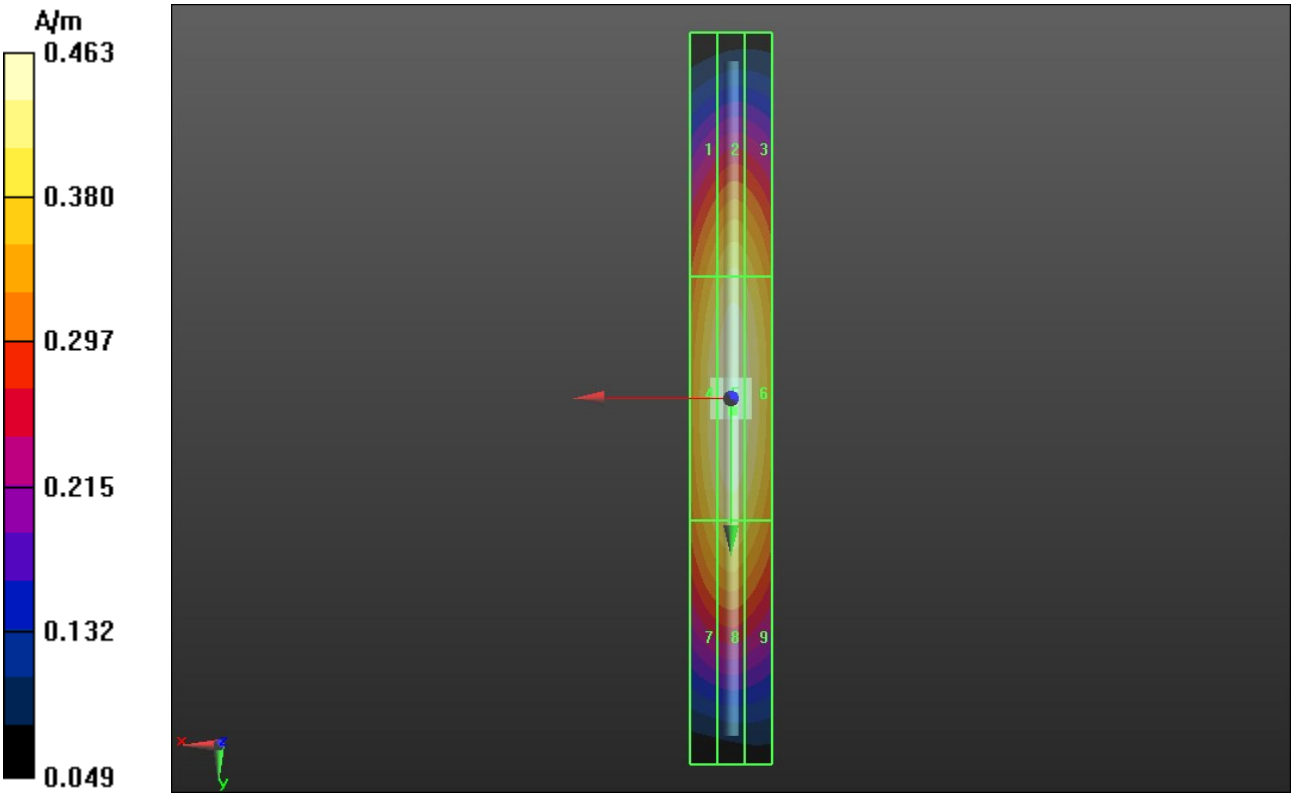
Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1
Phantom section: RF Section
DASY4 Configuration:
- Probe: H3DV6 - SN6157; ; Calibrated: 1/30/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0);SEMCAD X Version 14.6.4 (4989)

CD835V3, H-Field/Measurement distance from the probe sensor center to Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.49 V/m; Power Drift = -0.00 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.46 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.39 A/m**	Grid 2 **M4** **0.42 A/m**	Grid 3 **M4** **0.40 A/m**
Grid 4 **M4** **0.44 A/m**	Grid 5 **M4** **0.46 A/m**	Grid 6 **M4** **0.45 A/m**
Grid 7 **M4** **0.39 A/m**	Grid 8 **M4** **0.41 A/m**	Grid 9 **M4** **0.39 A/m**



Date: 6/6/2012

Test Laboratory: UL CCS SAR Lab C

System Validation

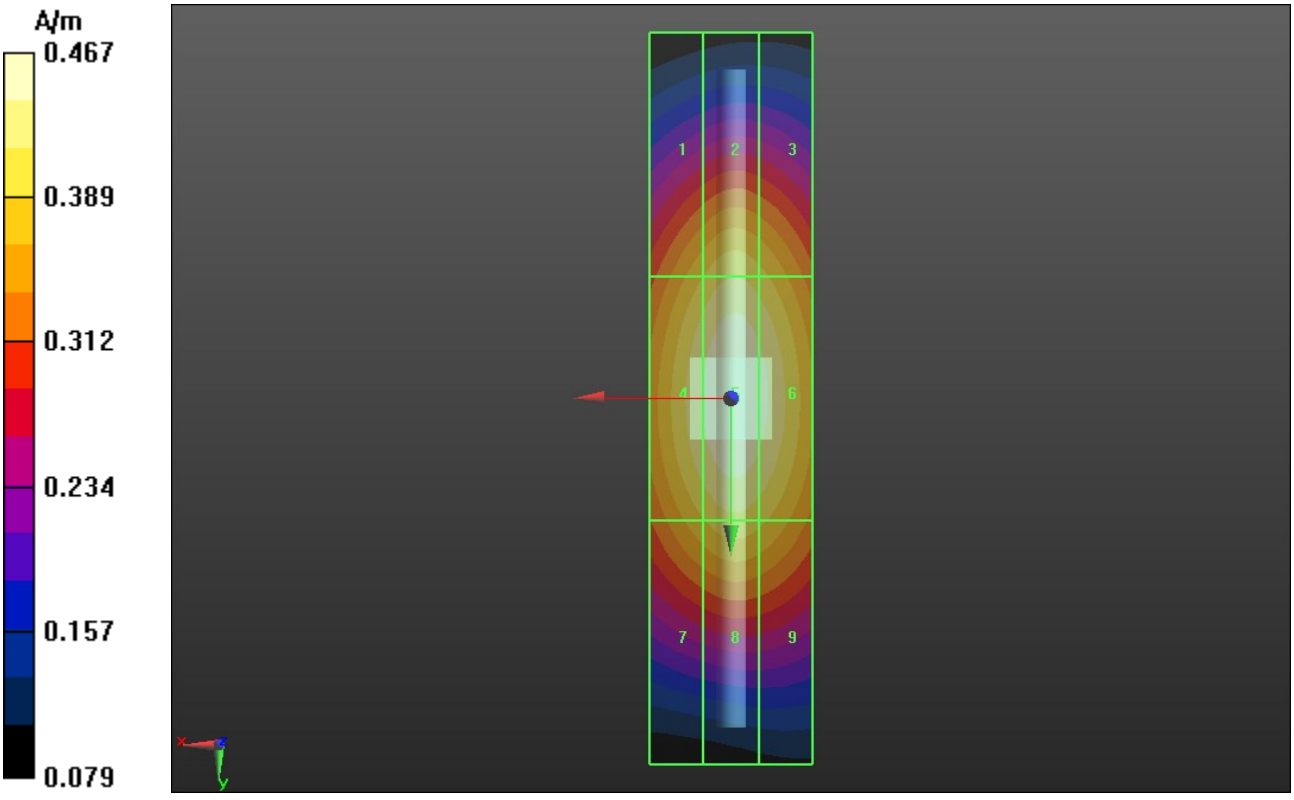
Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1
Phantom section: RF Section
DASY4 Configuration:
- Probe: H3DV6 - SN6157; ; Calibrated: 1/30/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0);SEMCAD X Version 14.6.4 (4989)

CD1730V3, H-Field/H Scan - measurement distance from the probe sensor center to CD1730 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.50 V/m; Power Drift = -0.01 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.47 A/m
Near-field category: M2 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M2** **0.39 A/m**	Grid 2 **M2** **0.41 A/m**	Grid 3 **M2** **0.40 A/m**
Grid 4 **M2** **0.44 A/m**	Grid 5 **M2** **0.47 A/m**	Grid 6 **M2** **0.45 A/m**
Grid 7 **M2** **0.39 A/m**	Grid 8 **M2** **0.41 A/m**	Grid 9 **M2** **0.40 A/m**



Date: 6/6/2012

Test Laboratory: UL CCS SAR Lab C

System Validation

Communication System: CW; 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 14.6.4 (4989)

CD1880V3, H-Field/Measurement distance from the probe sensor center to Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.49 V/m; Power Drift = -0.00 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.46 A/m
Near-field category: M2 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M2** **0.40 A/m**	Grid 2 **M2** **0.43 A/m**	Grid 3 **M2** **0.41 A/m**
Grid 4 **M2** **0.44 A/m**	Grid 5 **M2** **0.46 A/m**	Grid 6 **M2** **0.45 A/m**
Grid 7 **M2** **0.40 A/m**	Grid 8 **M2** **0.42 A/m**	Grid 9 **M2** **0.41 A/m**