

Test Laboratory: UL CCS SAR Lab C

### System Validation

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (1); 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 = 117.0 V/m; Power Drift = -0.00 dB

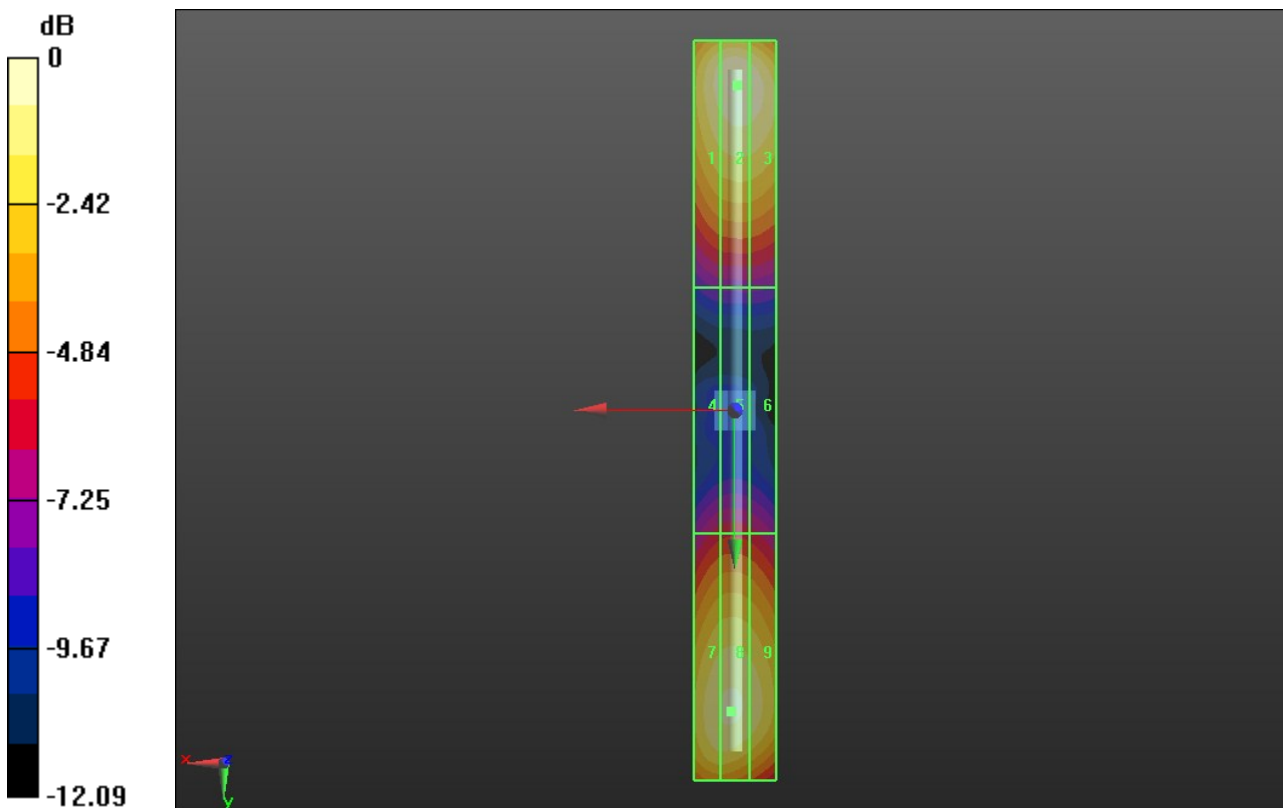
PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 165.0 V/m

Near-field category: **M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>158.0 V/m</b>	Grid 2 <b>M4</b> <b>165.0 V/m</b>	Grid 3 <b>M4</b> <b>161.9 V/m</b>
Grid 4 <b>M4</b> <b>83.49 V/m</b>	Grid 5 <b>M4</b> <b>84.98 V/m</b>	Grid 6 <b>M4</b> <b>82.58 V/m</b>
Grid 7 <b>M4</b> <b>151.3 V/m</b>	Grid 8 <b>M4</b> <b>152.8 V/m</b>	Grid 9 <b>M4</b> <b>147.5 V/m</b>



0 dB = 165.0V/m = 44.35 dB V/m

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## System Validation

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

Phantom section: RF Section

DASY5 Configuration:

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

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB

- Measurement SW: DASY52, Version 52.8 (1); 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 = 136.6 V/m; Power Drift = -0.03 dB

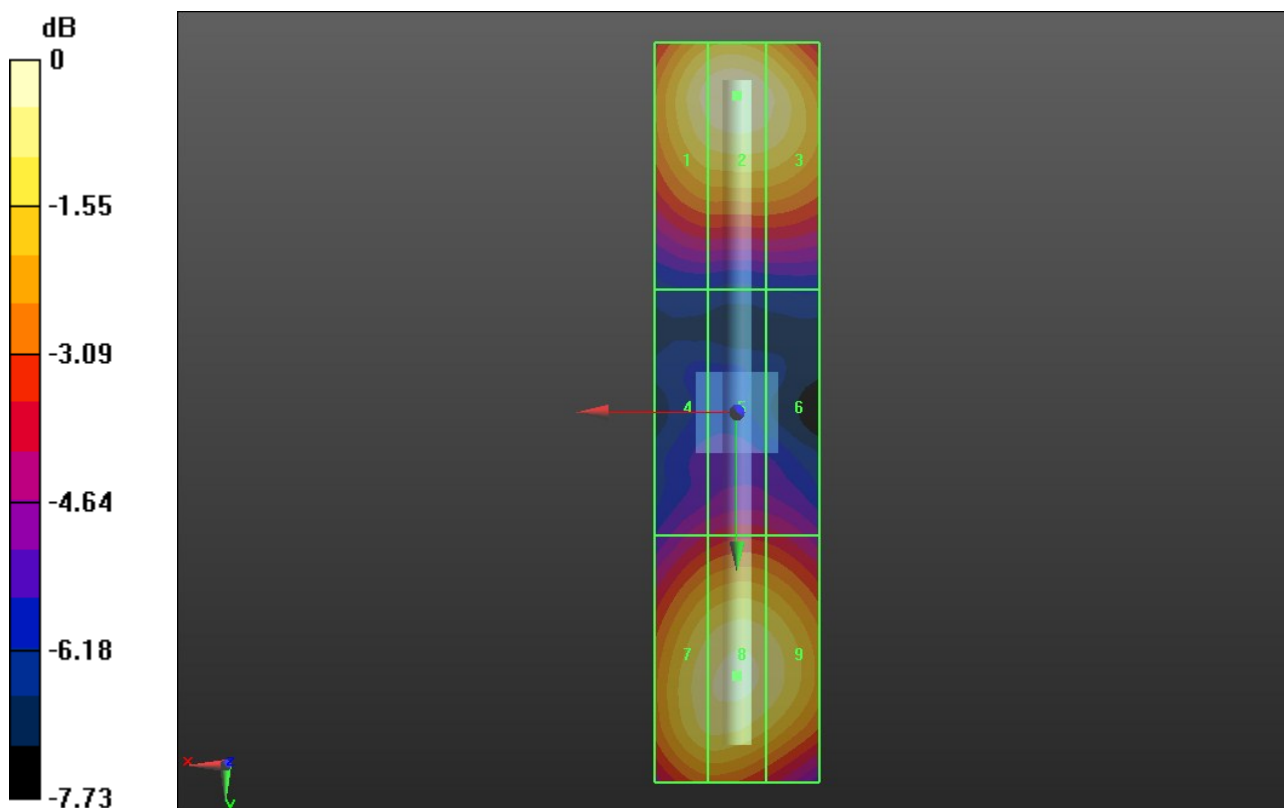
PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 141.7 V/m

Near-field category: **M2 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M2</b> <b>137.1 V/m</b>	Grid 2 <b>M2</b> <b>141.7 V/m</b>	Grid 3 <b>M2</b> <b>136.6 V/m</b>
Grid 4 <b>M3</b> <b>88.73 V/m</b>	Grid 5 <b>M3</b> <b>92.76 V/m</b>	Grid 6 <b>M3</b> <b>91.31 V/m</b>
Grid 7 <b>M2</b> <b>132.7 V/m</b>	Grid 8 <b>M2</b> <b>135.7 V/m</b>	Grid 9 <b>M2</b> <b>132.2 V/m</b>



0 dB = 141.7V/m = 43.03 dB V/m

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## System Validation

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

Phantom section: RF Section

DASY5 Configuration:

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

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB

- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.4 (4989)

### CD1730V3, 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 = 156.3 V/m; Power Drift = -0.03 dB

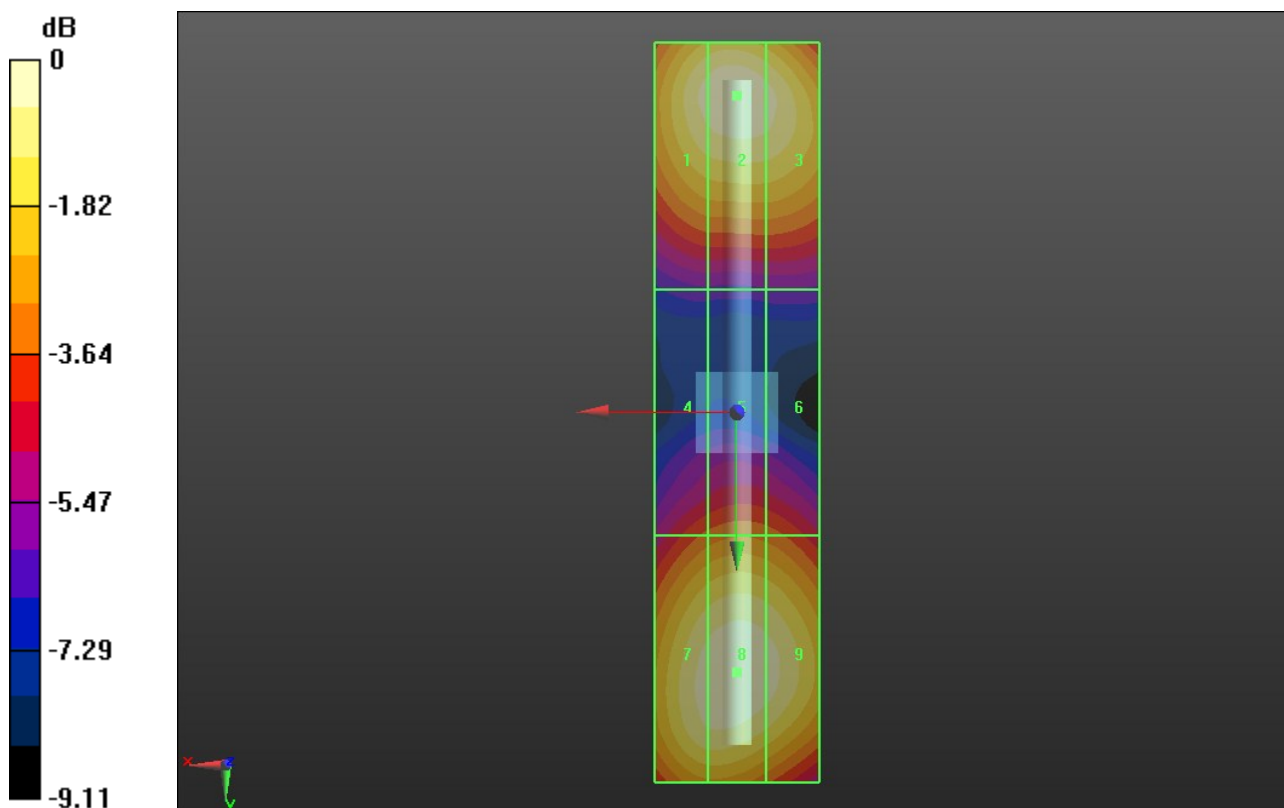
PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 156.2 V/m

Near-field category: **M2 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M2</b> <b>150.7 V/m</b>	Grid 2 <b>M2</b> <b>156.2 V/m</b>	Grid 3 <b>M2</b> <b>150.3 V/m</b>
Grid 4 <b>M3</b> <b>105.6 V/m</b>	Grid 5 <b>M3</b> <b>110.0 V/m</b>	Grid 6 <b>M3</b> <b>107.6 V/m</b>
Grid 7 <b>M2</b> <b>151.6 V/m</b>	Grid 8 <b>M2</b> <b>155.1 V/m</b>	Grid 9 <b>M2</b> <b>150.9 V/m</b>



0 dB = 156.2V/m = 43.87 dB V/m

Test Laboratory: UL CCS SAR Lab C

## System Validation

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY5 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 1/30/2012

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB

- Measurement SW: DASY52, Version 52.8 (1); 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 = 0.51 V/m; Power Drift = -0.02 dB

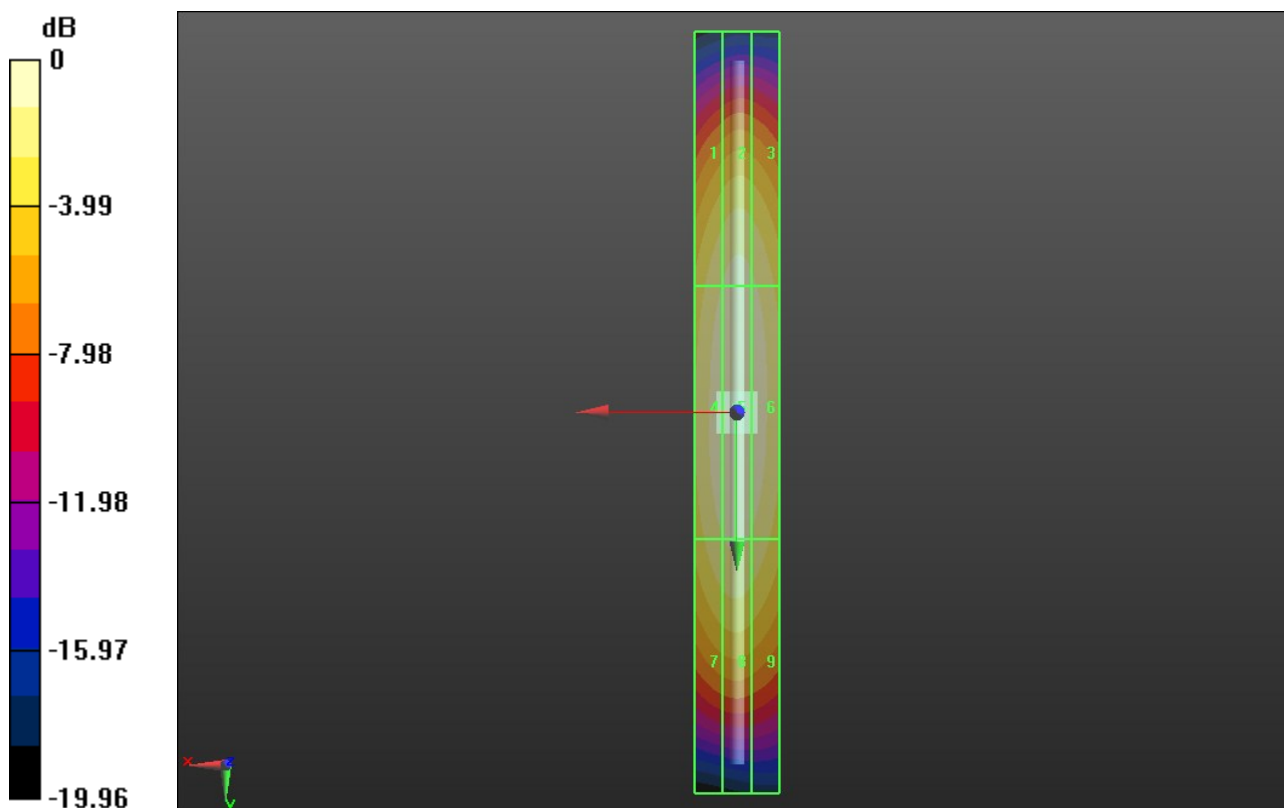
PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.48 A/m

Near-field category: **M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.41 A/m</b>	Grid 2 <b>M4</b> <b>0.44 A/m</b>	Grid 3 <b>M4</b> <b>0.42 A/m</b>
Grid 4 <b>M4</b> <b>0.46 A/m</b>	Grid 5 <b>M4</b> <b>0.48 A/m</b>	Grid 6 <b>M4</b> <b>0.46 A/m</b>
Grid 7 <b>M4</b> <b>0.41 A/m</b>	Grid 8 <b>M4</b> <b>0.43 A/m</b>	Grid 9 <b>M4</b> <b>0.40 A/m</b>



0 dB = 0.480A/m = -6.38 dB A/m

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Phantom section: RF Section

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- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (1); 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 = 0.50 V/m; Power Drift = 0.00 dB

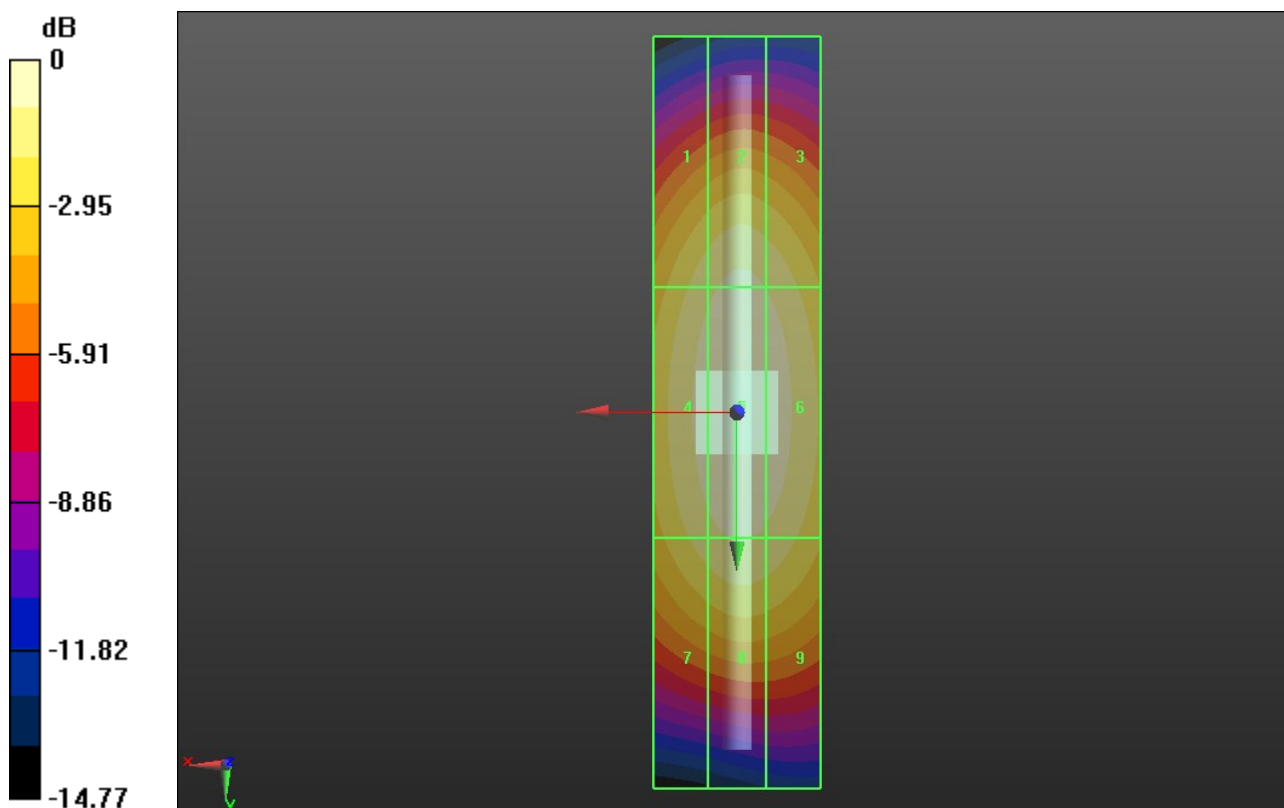
PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.47 A/m

Near-field category: **M2 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M2</b> <b>0.41 A/m</b>	Grid 2 <b>M2</b> <b>0.43 A/m</b>	Grid 3 <b>M2</b> <b>0.42 A/m</b>
Grid 4 <b>M2</b> <b>0.44 A/m</b>	Grid 5 <b>M2</b> <b>0.47 A/m</b>	Grid 6 <b>M2</b> <b>0.45 A/m</b>
Grid 7 <b>M2</b> <b>0.40 A/m</b>	Grid 8 <b>M2</b> <b>0.42 A/m</b>	Grid 9 <b>M2</b> <b>0.41 A/m</b>



0 dB = 0.470A/m = -6.56 dB A/m

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Phantom section: RF Section

DASY5 Configuration:

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- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB

- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.4 (4989)

**CD1730V3, 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 = 0.50 V/m; Power Drift = 0.00 dB

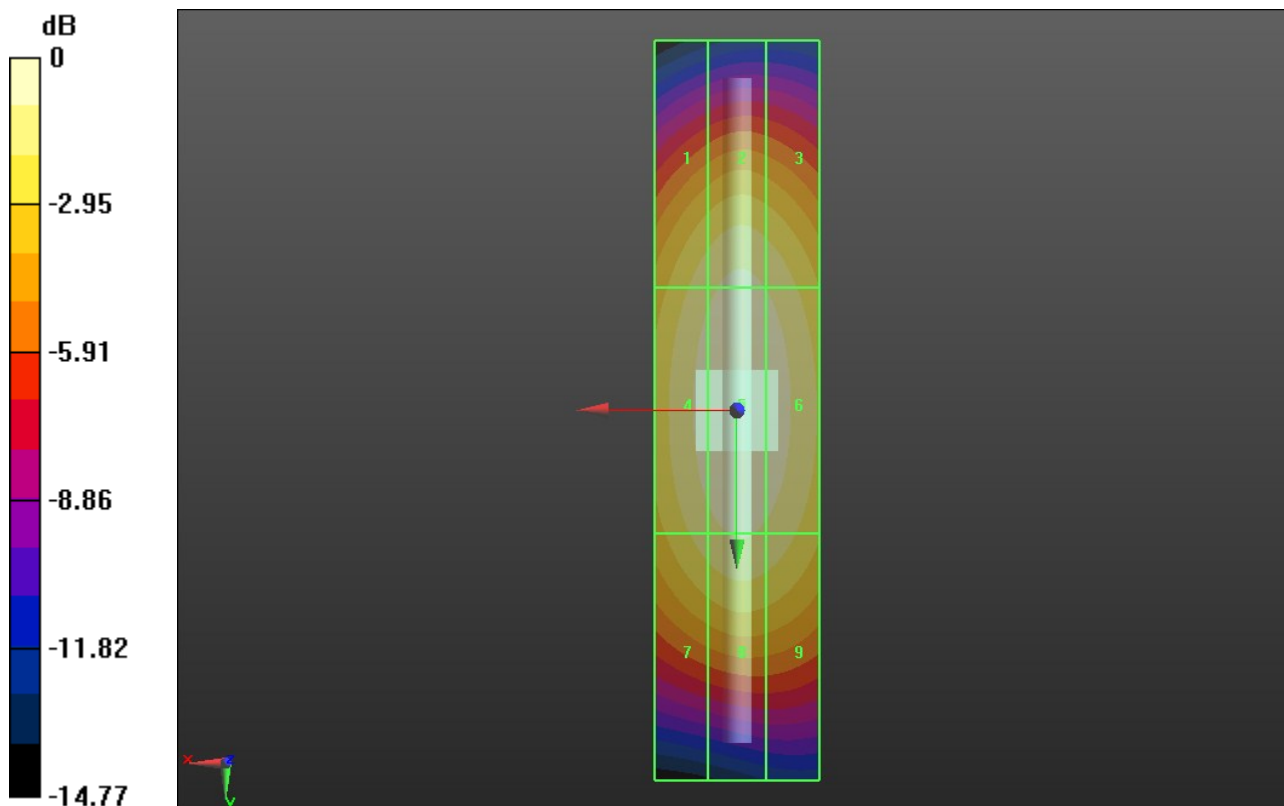
PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.47 A/m

**Near-field category: M2 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M2</b> <b>0.41 A/m</b>	Grid 2 <b>M2</b> <b>0.43 A/m</b>	Grid 3 <b>M2</b> <b>0.42 A/m</b>
Grid 4 <b>M2</b> <b>0.44 A/m</b>	Grid 5 <b>M2</b> <b>0.47 A/m</b>	Grid 6 <b>M2</b> <b>0.45 A/m</b>
Grid 7 <b>M2</b> <b>0.40 A/m</b>	Grid 8 <b>M2</b> <b>0.42 A/m</b>	Grid 9 <b>M2</b> <b>0.41 A/m</b>



0 dB = 0.470A/m = -6.56 dB A/m