

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 - SN2509; ConvF(1, 1, 1); Calibrated: 4/8/2011

- 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 52.6 (2); SEMCAD X Version 14.4.5 (3634)

### CD835V3, Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 170.9 V/m

Probe Modulation Factor = 1.000

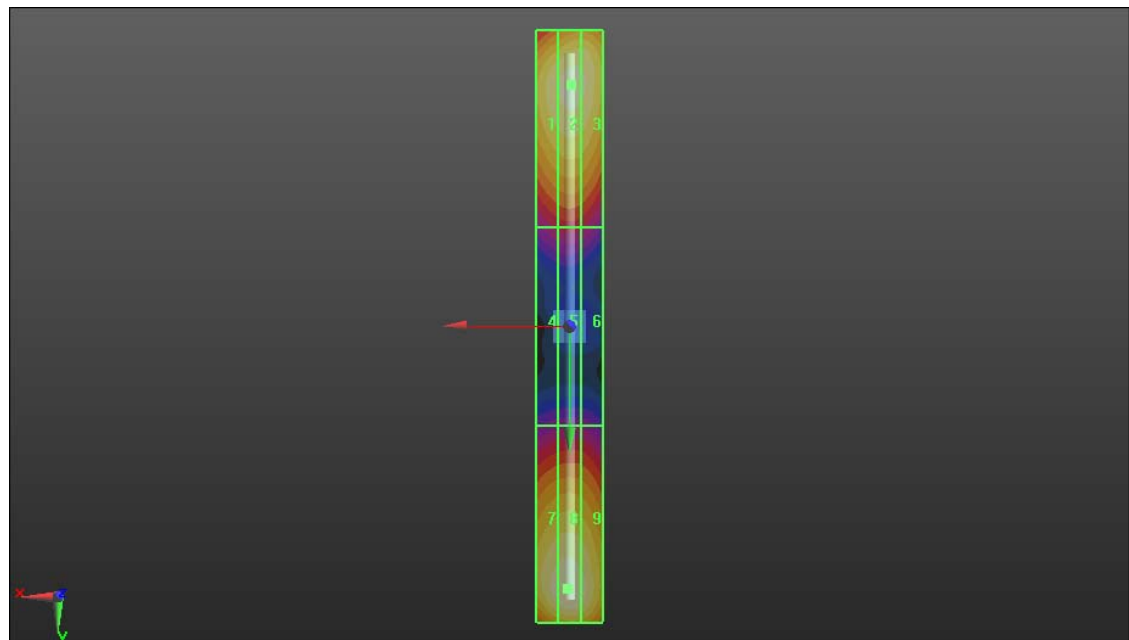
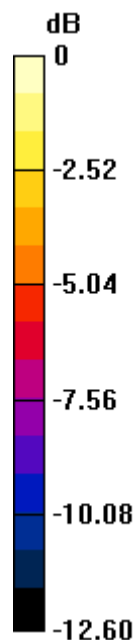
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 102.9 V/m; Power Drift = -0.02 dB

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

Peak E-field in V/m

|                            |                                   |                            |
|----------------------------|-----------------------------------|----------------------------|
| Grid 1<br><b>155.6 M4</b>  | Grid 2<br><b>161.4 M4</b>         | Grid 3<br><b>159.2 M4</b>  |
| Grid 4<br><b>80.484 M4</b> | <b>Grid 5</b><br><b>82.801 M4</b> | Grid 6<br><b>79.986 M4</b> |
| Grid 7<br><b>165.2 M4</b>  | Grid 8<br><b>170.9 M4</b>         | Grid 9<br><b>163.2 M4</b>  |



0 dB = 170.9V/m

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## System Validation

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 4/8/2011

- 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 52.6 (2); SEMCAD X Version 14.4.5 (3634)

### CD1880V3, Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 135.5 V/m

Probe Modulation Factor = 1.000

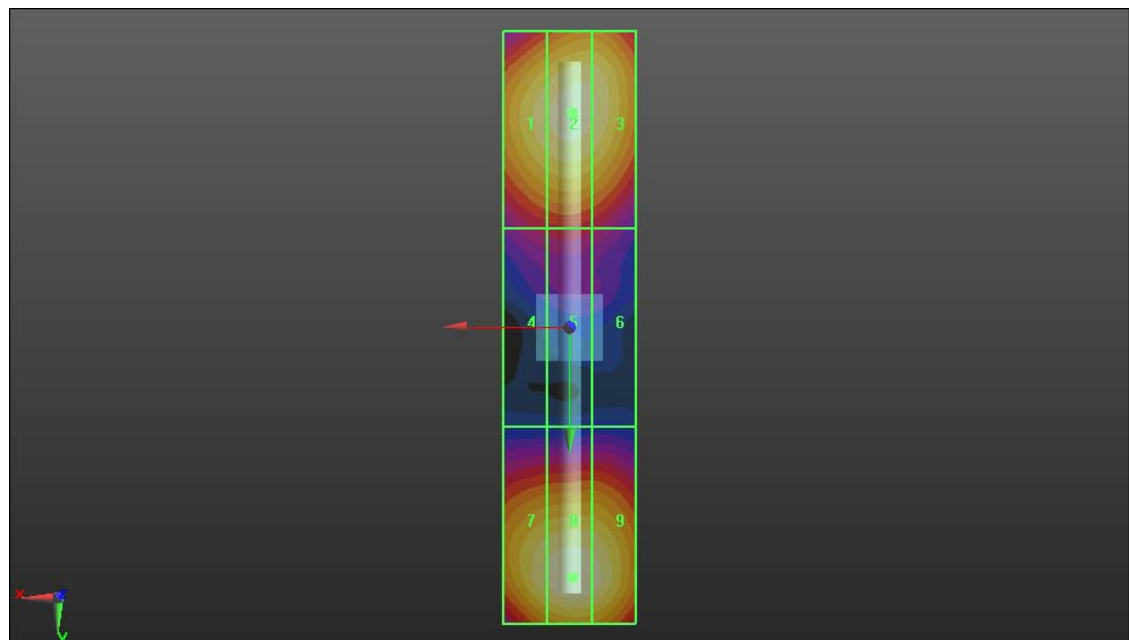
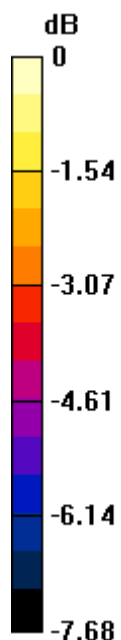
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 151.6 V/m; Power Drift = 0.03 dB

Hearing Aid Near-Field Category: **M2 (AWF 0 dB)**

Peak E-field in V/m

|                            |                                   |                            |
|----------------------------|-----------------------------------|----------------------------|
| Grid 1<br><b>126.9 M2</b>  | Grid 2<br><b>132.0 M2</b>         | Grid 3<br><b>129.2 M2</b>  |
| Grid 4<br><b>87.201 M3</b> | <b>Grid 5</b><br><b>89.290 M3</b> | Grid 6<br><b>85.627 M3</b> |
| Grid 7<br><b>128.9 M2</b>  | Grid 8<br><b>135.5 M2</b>         | Grid 9<br><b>132.1 M2</b>  |



0 dB = 135.5V/m

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## System Validation

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6324; ; Calibrated: 4/11/2011
- 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 52.6 (2); SEMCAD X Version 14.4.5 (3634)

### CD835V3, Dipole H-Field measurement/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.439 A/m

Probe Modulation Factor = 1.000

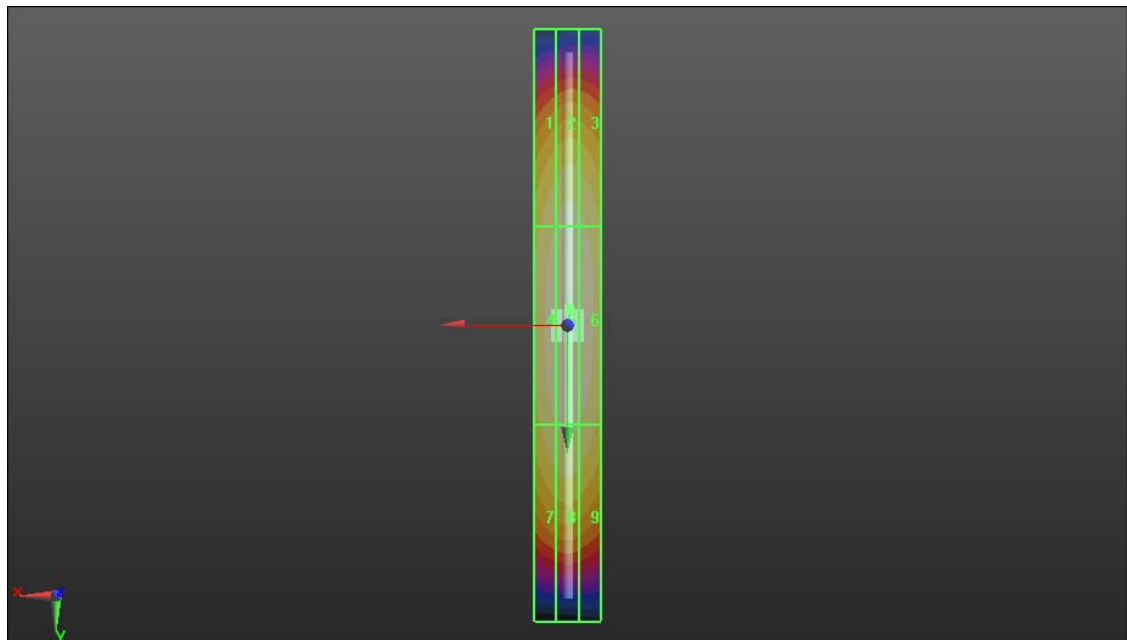
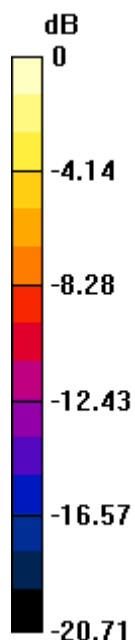
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.465 A/m; Power Drift = 0.00072 dB

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

Peak H-field in A/m

|                           |                           |                           |
|---------------------------|---------------------------|---------------------------|
| Grid 1<br><b>0.380 M4</b> | Grid 2<br><b>0.405 M4</b> | Grid 3<br><b>0.393 M4</b> |
| Grid 4<br><b>0.417 M4</b> | Grid 5<br><b>0.439 M4</b> | Grid 6<br><b>0.425 M4</b> |
| Grid 7<br><b>0.376 M4</b> | Grid 8<br><b>0.394 M4</b> | Grid 9<br><b>0.377 M4</b> |



0 dB = 0.440 A/m

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- 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 52.6 (2); SEMCAD X Version 14.4.5 (3634)

### CD1880V3, Dipole H-Field measurement/H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.436 A/m

Probe Modulation Factor = 1.000

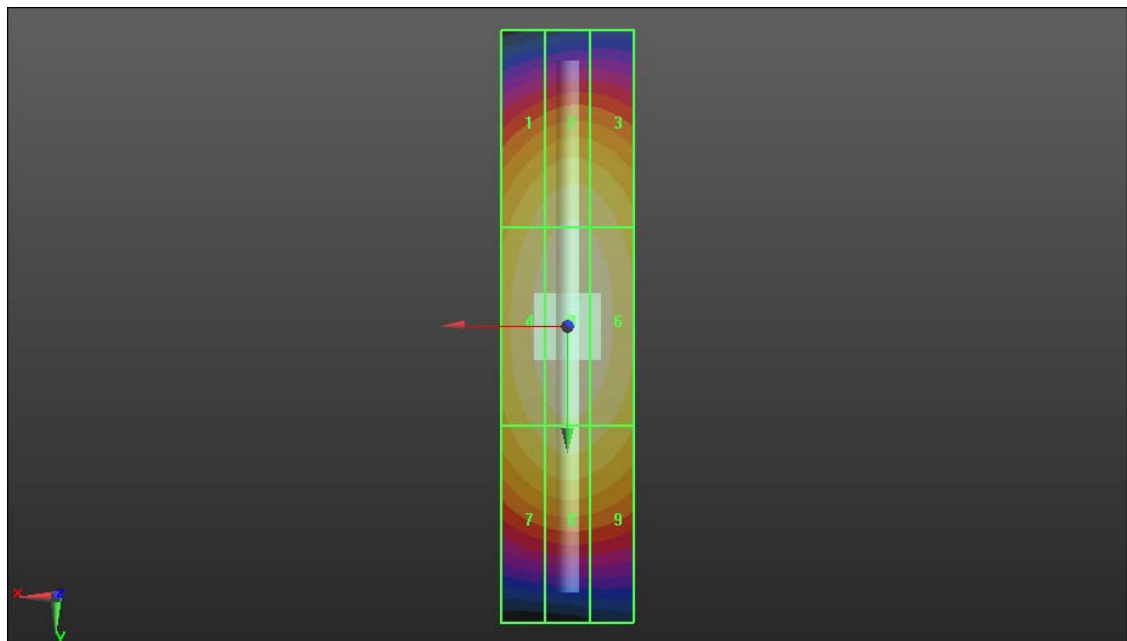
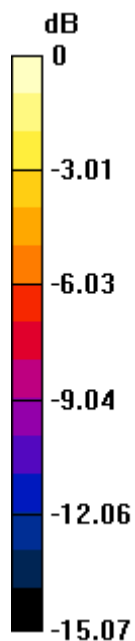
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.461 A/m; Power Drift = -0.00042 dB

**Hearing Aid Near-Field Category: M2 (AWF 0 dB)**

Peak H-field in A/m

|                 |                 |                 |
|-----------------|-----------------|-----------------|
| Grid 1          | Grid 2          | Grid 3          |
| <b>0.376 M2</b> | <b>0.400 M2</b> | <b>0.390 M2</b> |
| Grid 4          | Grid 5          | Grid 6          |
| <b>0.414 M2</b> | <b>0.436 M2</b> | <b>0.424 M2</b> |
| Grid 7          | Grid 8          | Grid 9          |
| <b>0.368 M2</b> | <b>0.385 M2</b> | <b>0.373 M2</b> |



0 dB = 0.440 A/m