

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 14.4.5 (3634)

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

Maximum value of peak Total field = 164.5 V/m

Probe Modulation Factor = 1.000

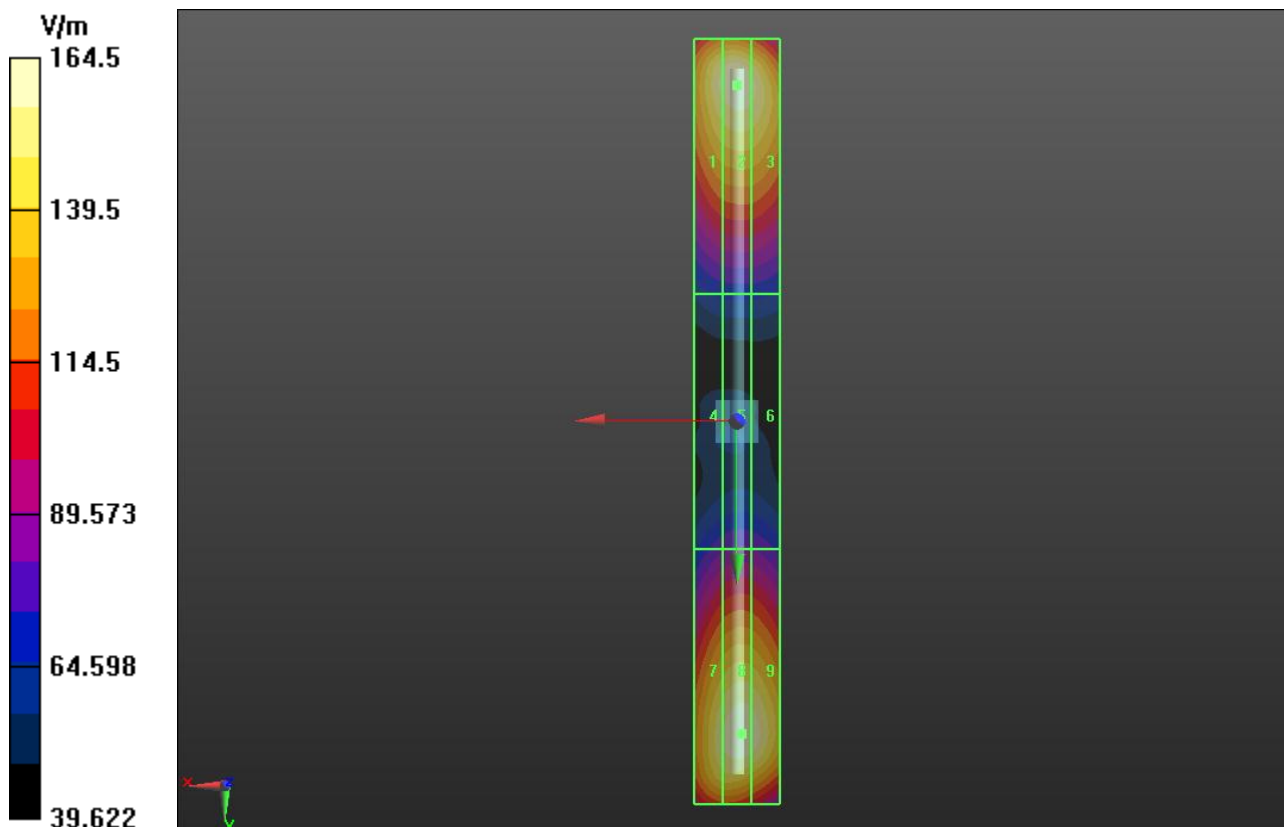
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 117.1 V/m; Power Drift = -0.01 dB

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

Peak E-field in V/m

|                            |                            |                            |
|----------------------------|----------------------------|----------------------------|
| Grid 1<br><b>159.5 M4</b>  | Grid 2<br><b>164.5 M4</b>  | Grid 3<br><b>159.5 M4</b>  |
| Grid 4<br><b>79.938 M4</b> | Grid 5<br><b>83.323 M4</b> | Grid 6<br><b>82.040 M4</b> |
| Grid 7<br><b>155.6 M4</b>  | Grid 8<br><b>163.0 M4</b>  | Grid 9<br><b>161.2 M4</b>  |



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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 14.4.5 (3634)

### 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

Maximum value of peak Total field = 146.3 V/m

Probe Modulation Factor = 1.000

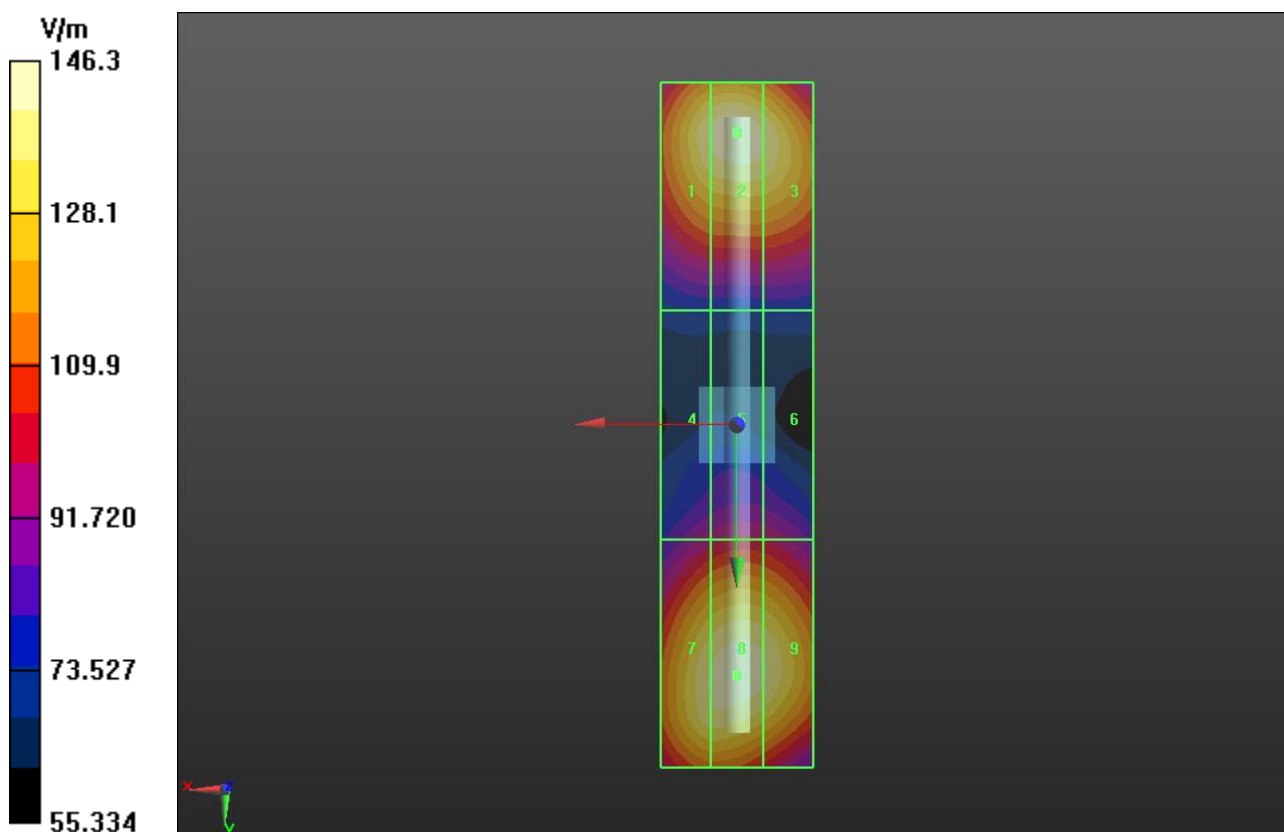
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 148.7 V/m; Power Drift = -0.01 dB

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

Peak E-field in V/m

|                            |                                   |                            |
|----------------------------|-----------------------------------|----------------------------|
| Grid 1<br><b>141.3 M2</b>  | Grid 2<br><b>146.3 M2</b>         | Grid 3<br><b>140.9 M2</b>  |
| Grid 4<br><b>95.103 M3</b> | <b>Grid 5</b><br><b>99.510 M3</b> | Grid 6<br><b>98.004 M3</b> |
| Grid 7<br><b>141.3 M2</b>  | Grid 8<br><b>144.5 M2</b>         | Grid 9<br><b>141.2 M2</b>  |



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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 14.4.5 (3634)

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

Maximum value of peak Total field = 147.4 V/m

Probe Modulation Factor = 1.000

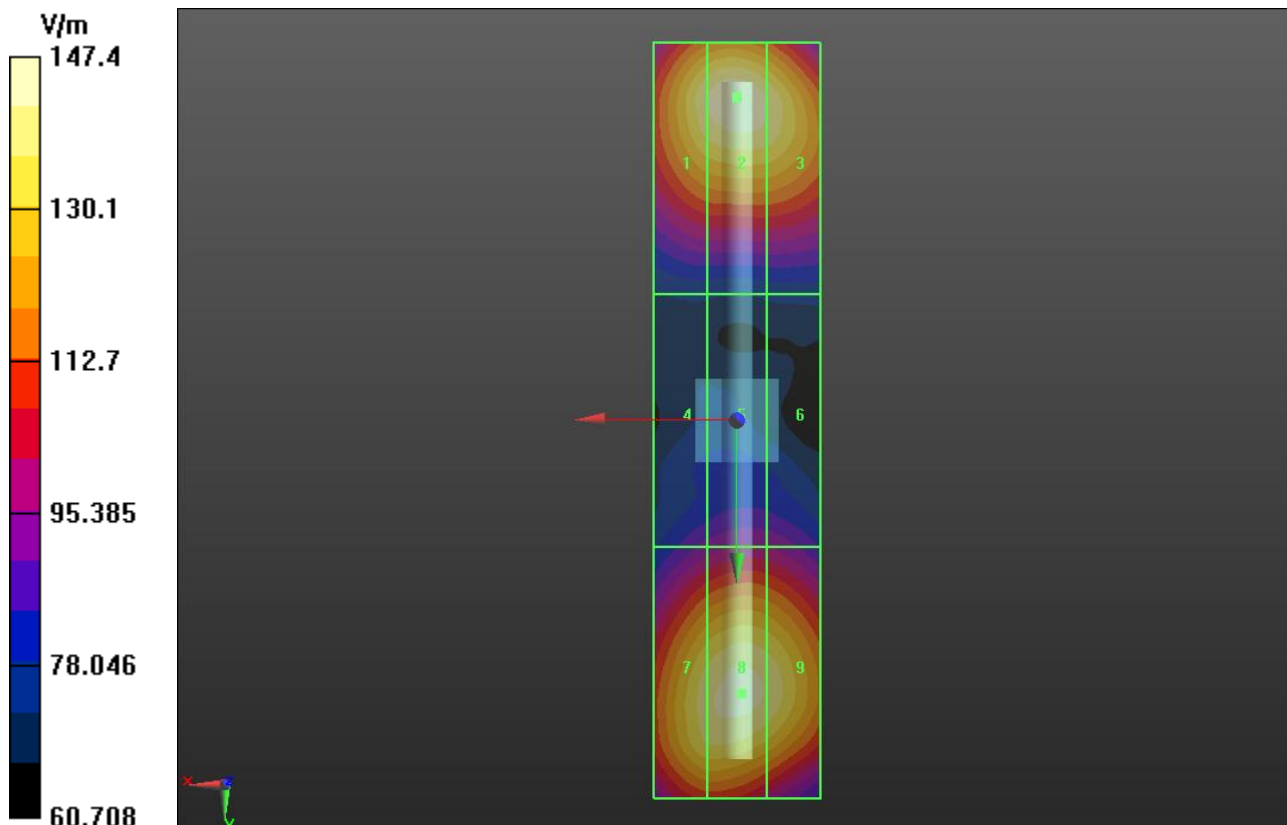
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 146.3 V/m; Power Drift = -0.01 dB

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

Peak E-field in V/m

|                            |                                   |                            |
|----------------------------|-----------------------------------|----------------------------|
| Grid 1<br><b>142.1 M2</b>  | Grid 2<br><b>147.4 M2</b>         | Grid 3<br><b>142.3 M2</b>  |
| Grid 4<br><b>92.136 M3</b> | <b>Grid 5</b><br><b>96.897 M3</b> | Grid 6<br><b>95.708 M3</b> |
| Grid 7<br><b>140.3 M2</b>  | Grid 8<br><b>143.9 M2</b>         | Grid 9<br><b>140.9 M2</b>  |



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## 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 14.4.5 (3634)

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

Maximum value of peak Total field = 0.457 A/m

Probe Modulation Factor = 1.000

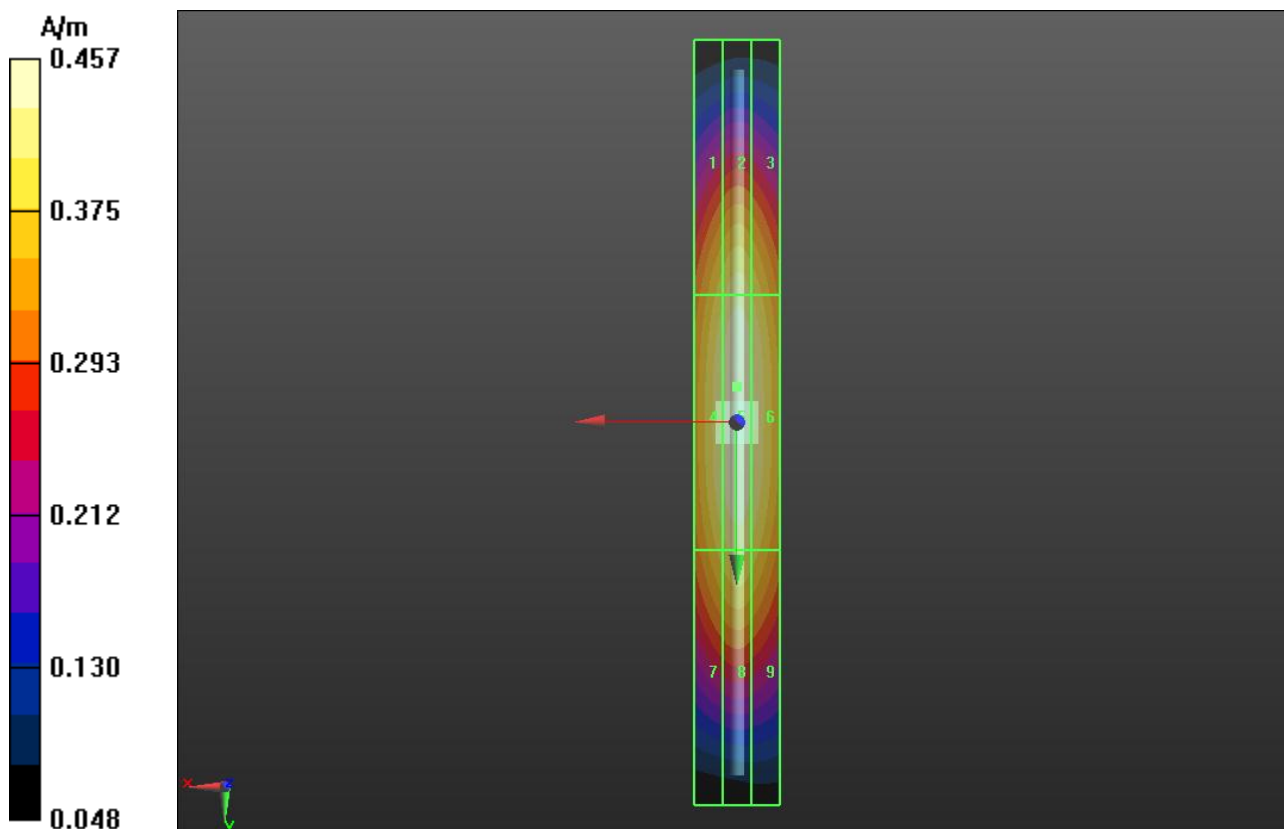
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.485 A/m; Power Drift = -0.02 dB

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

Peak H-field in A/m

|                           |                           |                           |
|---------------------------|---------------------------|---------------------------|
| Grid 1<br><b>0.395 M4</b> | Grid 2<br><b>0.422 M4</b> | Grid 3<br><b>0.402 M4</b> |
| Grid 4<br><b>0.432 M4</b> | Grid 5<br><b>0.457 M4</b> | Grid 6<br><b>0.436 M4</b> |
| Grid 7<br><b>0.389 M4</b> | Grid 8<br><b>0.411 M4</b> | Grid 9<br><b>0.392 M4</b> |



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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 14.4.5 (3634)

### 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

Maximum value of peak Total field = 0.453 A/m

Probe Modulation Factor = 1.000

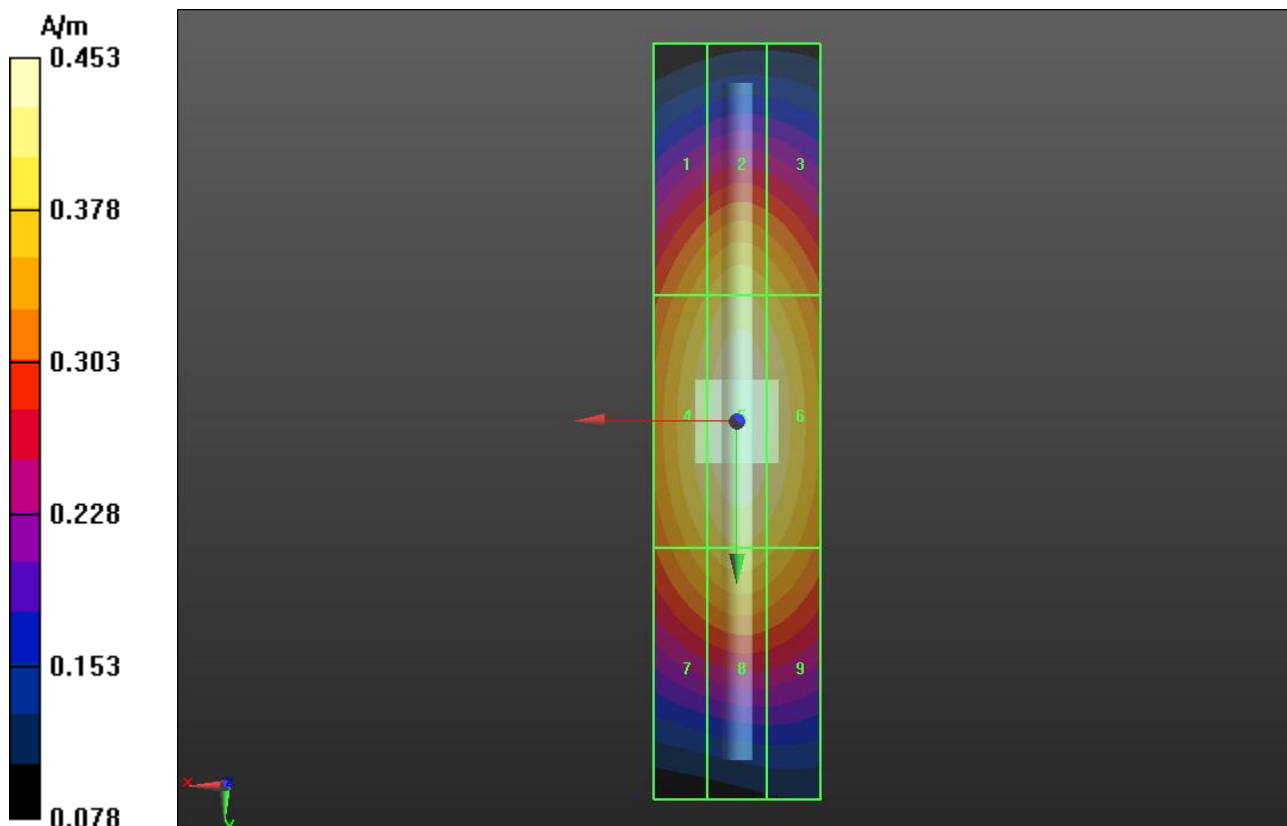
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.482 A/m; Power Drift = -0.0093 dB

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

Peak H-field in A/m

|                 |                 |                 |
|-----------------|-----------------|-----------------|
| Grid 1          | Grid 2          | Grid 3          |
| <b>0.381 M2</b> | <b>0.406 M2</b> | <b>0.389 M2</b> |
| Grid 4          | Grid 5          | Grid 6          |
| <b>0.427 M2</b> | <b>0.453 M2</b> | <b>0.435 M2</b> |
| Grid 7          | Grid 8          | Grid 9          |
| <b>0.379 M2</b> | <b>0.401 M2</b> | <b>0.387 M2</b> |



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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 14.4.5 (3634)

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

Maximum value of peak Total field = 0.499 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.529 A/m; Power Drift = -0.0051 dB

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

Peak H-field in A/m

|                           |                            |                           |
|---------------------------|----------------------------|---------------------------|
| Grid 1<br><b>0.424 M2</b> | Grid 2<br><b>0.453 M2</b>  | Grid 3<br><b>0.436 M2</b> |
| Grid 4<br><b>0.470 M2</b> | <b>Grid 5<br/>0.499 M2</b> | Grid 6<br><b>0.481 M2</b> |
| Grid 7<br><b>0.424 M2</b> | Grid 8<br><b>0.449 M2</b>  | Grid 9<br><b>0.436 M2</b> |

