

Applicant:	Kyocera
FCC ID:	V65E4233
Report #:	CT-E4233-12B-1011-R0

**Exhibit 12 Appendix B: HAC RF Validation Plots**

**Validation E Field Probe SN2282, Dipole SN1020, 835MHz**

Date: 10/27/2011

**E4233\_E\_Dipole\_835**

Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1  
 Medium: Air, Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom: HAC Test Arch with AMCC, Phantom section: RF Section

**DASY4 Configuration:**

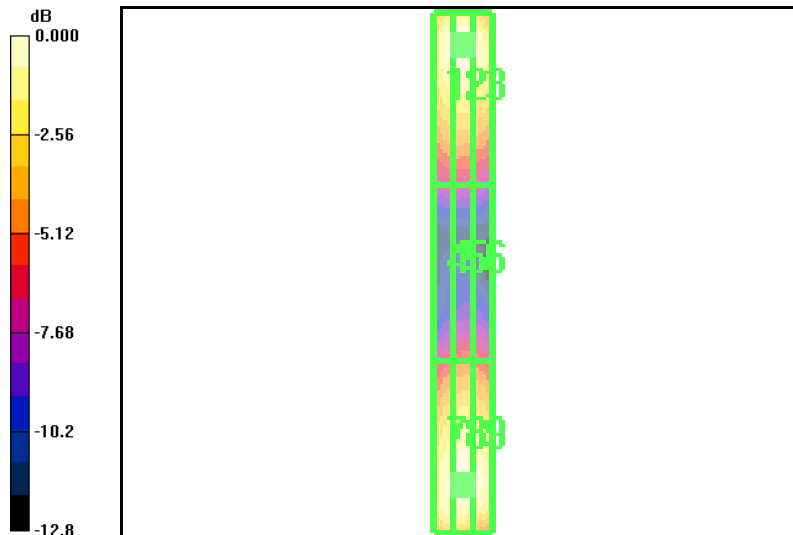
Probe: ER3DV6 - SN2282, ConvF(1, 1, 1), Calibrated: 1/20/2011  
 Sensor-Surface: (Fix Surface),  
 Electronics: DAE4 Sn527, Calibrated: 7/13/2011  
 Measurement SW: DASY4, V4.7 Build 80  
 Postprocessing SW: SEMCAD, V1.8 Build 186  
**Temperature:** Room T = 21.8 ± 1 deg C, Liquid T = 22.0 ± 1 deg C

**E Scan 835 - 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 = 171.1 V/m  
 Probe Modulation Factor = 1.00  
 Device Reference Point: 0.000, 0.000, -6.30 mm  
 Reference Value = 179.3 V/m; Power Drift = -0.154 dB

Peak E-field in V/m

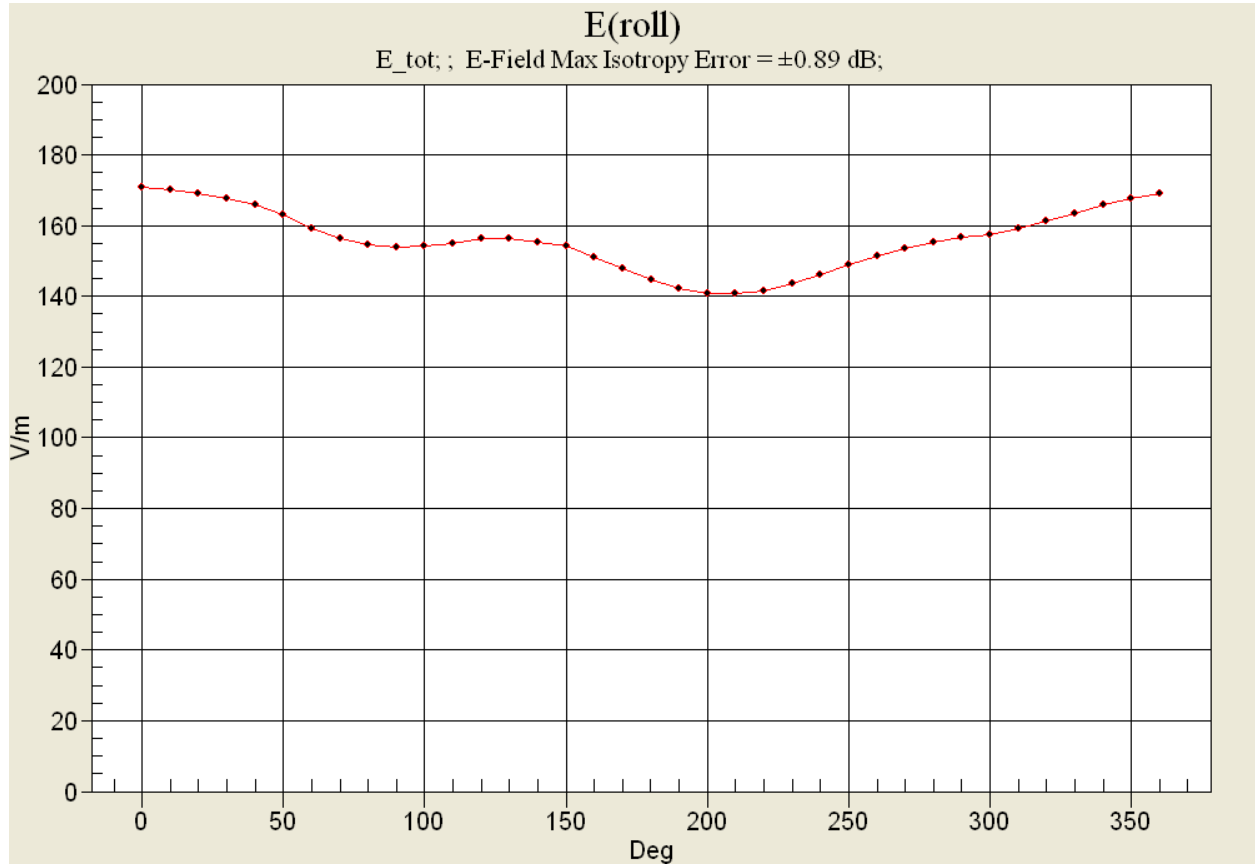
Grid 1 <b>166.5 M4</b>	Grid 2 <b>171.1 M4</b>	Grid 3 <b>163.6 M4</b>
Grid 4 <b>88.0 M4</b>	Grid 5 <b>92.7 M4</b>	Grid 6 <b>91.6 M4</b>
Grid 7 <b>162.2 M4</b>	Grid 8 <b>169.3 M4</b>	Grid 9 <b>165.1 M4</b>



0 dB = 171.1V/m



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**Validation H Field Probe SN6123, Dipole SN1020, 835MHz**

Date: 10/27/2011

**E4233\_H\_Dipole\_835**

Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1  
 Medium: Air, Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
 Phantom: HAC Test Arch with AMCC, Phantom section: RF Section

**DASY4 Configuration:**

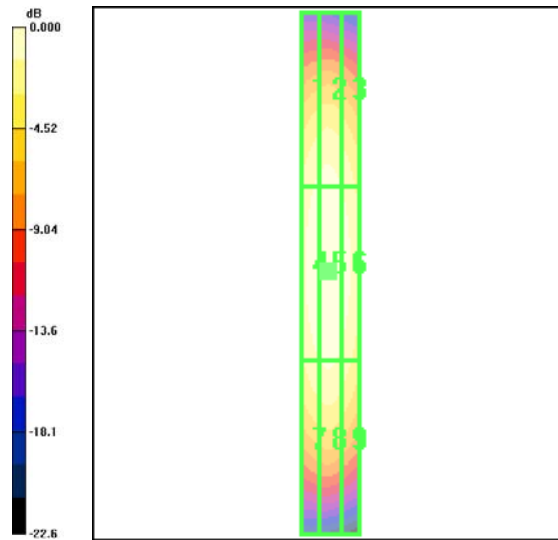
Probe: H3DV6 - SN6123, , Calibrated: 1/25/2011  
 Sensor-Surface: (Fix Surface),  
 Electronics: DAE4 Sn527, Calibrated: 7/13/2011  
 Measurement SW: DASY4, V4.7 Build 80  
 Postprocessing SW: SEMCAD, V1.8 Build 186  
**Temperature:** Room T = 21.8 1 deg C, Liquid T = 22.0 1 deg C

**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 = 0.466 A/m  
 Probe Modulation Factor = 1.00  
 Device Reference Point: 0.000, 0.000, -6.30 mm  
 Reference Value = 0.520 A/m; Power Drift = -0.047 dB

Peak H-field in A/m

Grid 1 <b>0.410 M4</b>	Grid 2 <b>0.420 M4</b>	Grid 3 <b>0.393 M4</b>
Grid 4 <b>0.451 M4</b>	Grid 5 <b>0.466 M4</b>	Grid 6 <b>0.438 M4</b>
Grid 7 <b>0.392 M4</b>	Grid 8 <b>0.405 M4</b>	Grid 9 <b>0.376 M4</b>



0 dB = 0.466A/m

**Validation E Field Probe SN2341, Dipole SN1015, 1900MHz**

Date: 10/27/2011

**E4210\_E\_Dipole\_1880**

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1  
 Medium: Air, Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom: HAC Test Arch with AMCC, Phantom section: RF Section

**DASY4 Configuration:**

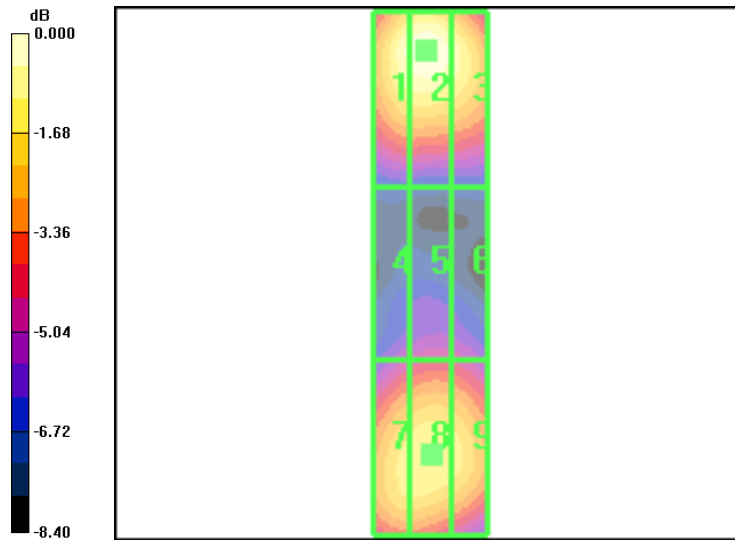
Probe: ER3DV6 - SN2282, ConvF(1, 1, 1), Calibrated: 1/20/2011  
 Sensor-Surface: (Fix Surface),  
 Electronics: DAE4 Sn527, Calibrated: 7/13/2011  
 Measurement SW: DASY4, V4.7 Build 80  
 Postprocessing SW: SEMCAD, V1.8 Build 186  
**Temperature:** Room T = 21.8 ± 1 deg C, Liquid T = 22.0 ± 1 deg C

**E Scan 1880 - 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 = 149.8 V/m  
 Probe Modulation Factor = 1.00  
 Device Reference Point: 0.000, 0.000, -6.30 mm  
 Reference Value = 131.0 V/m; Power Drift = -0.014 dB

Peak E-field in V/m

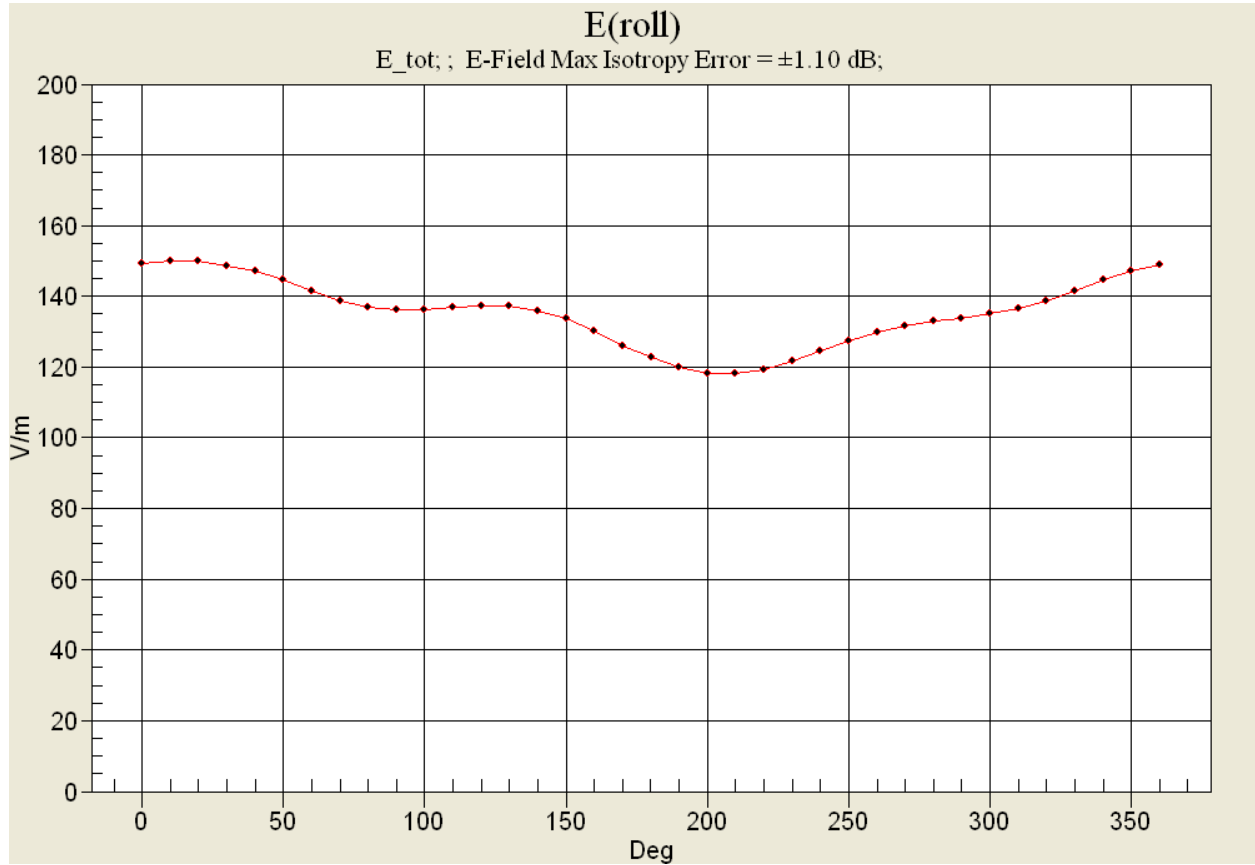
Grid 1 <b>144.2 M2</b>	Grid 2 <b>149.8 M2</b>	Grid 3 <b>139.7 M2</b>
Grid 4 <b>85.8 M3</b>	Grid 5 <b>90.5 M3</b>	Grid 6 <b>89.3 M3</b>
Grid 7 <b>129.4 M2</b>	Grid 8 <b>132.2 M2</b>	Grid 9 <b>129.3 M2</b>



0 dB = 149.8V/m



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**Validation H Field Probe SN6123, Dipole SN1015, 1900MHz**

Date: 10/27/2011

**E4233\_H\_Dipole\_1880**

Communication System: CW, Frequency: 1800 MHz, Duty Cycle: 1:1  
 Medium: Air, Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
 Phantom: HAC Test Arch with AMCC, Phantom section: RF Section

**DASY4 Configuration:**

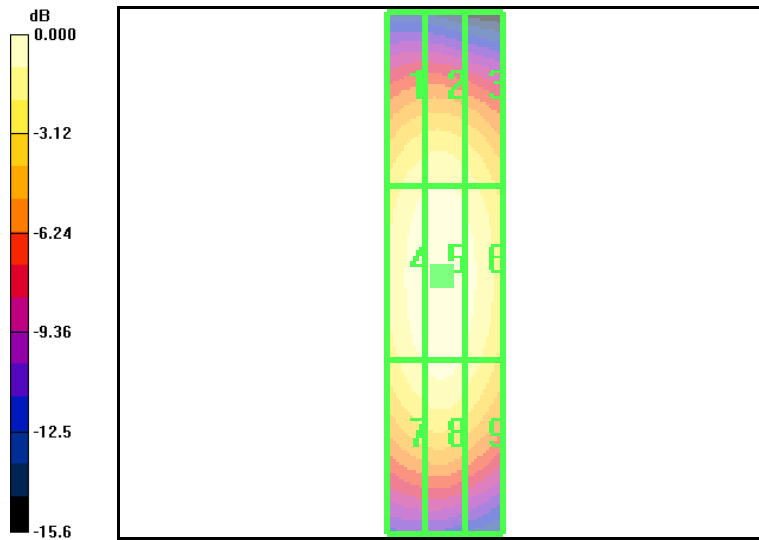
Probe: H3DV6 - SN6123, , Calibrated: 1/25/2011  
 Sensor-Surface: (Fix Surface),  
 Electronics: DAE4 Sn527, Calibrated: 7/13/2011  
 Measurement SW: DASY4, V4.7 Build 80  
 Postprocessing SW: SEMCAD, V1.8 Build 186  
**Temperature:** Room T = 21.8 ± 1 deg C, Liquid T = 22.0 ± 1 deg C

**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 = 0.488 A/m  
 Probe Modulation Factor = 1.00  
 Device Reference Point: 0.000, 0.000, -6.30 mm  
 Reference Value = 0.542 A/m; Power Drift = -0.051 dB

Peak H-field in A/m

Grid 1 <b>0.427 M2</b>	Grid 2 <b>0.439 M2</b>	Grid 3 <b>0.411 M2</b>
Grid 4 <b>0.471 M2</b>	Grid 5 <b>0.488 M2</b>	Grid 6 <b>0.457 M2</b>
Grid 7 <b>0.439 M2</b>	Grid 8 <b>0.456 M2</b>	Grid 9 <b>0.421 M2</b>



0 dB = 0.488A/m