



Applicant:	Kyocera
FCC ID:	V65S2150
Report #:	CT-S2150-20RFB-0812-R0

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

**Validation E Field Probe SN2341, Dipole SN1015, 835MHz**

Date: 08/22/2012

**S2150\_Dual\_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: 2/17/2012  
 Sensor-Surface: (Fix Surface),  
 Electronics: DAE4 Sn527, Calibrated: 7/30/2012  
 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 = 170.9 V/m

Probe Modulation Factor = 1.00

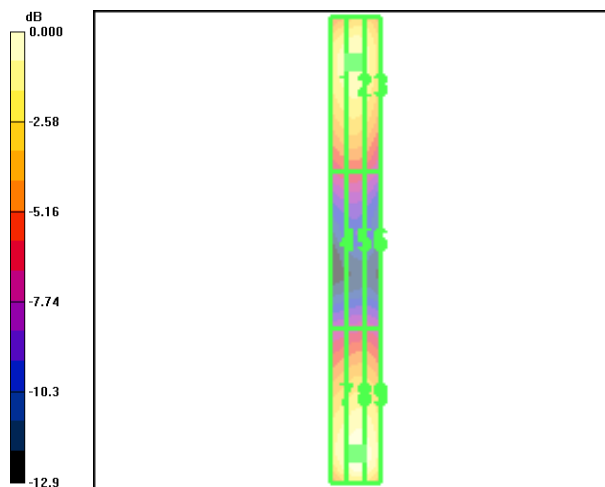
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 192.4 V/m; Power Drift = -0.012 dB

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

Peak E-field in V/m

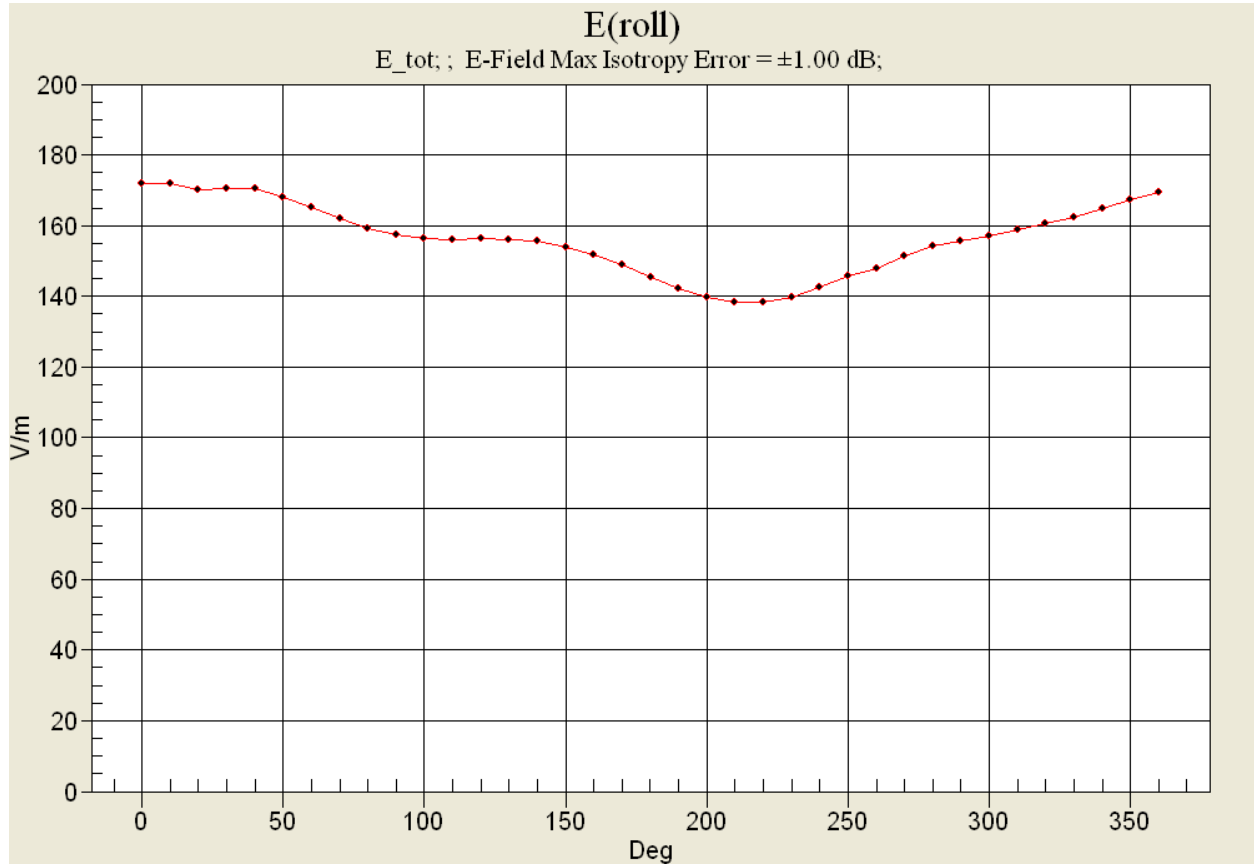
Grid 1 <b>151.1 M4</b>	Grid 2 <b>155.6 M4</b>	Grid 3 <b>148.8 M4</b>
Grid 4 <b>84.2 M4</b>	Grid 5 <b>86.0 M4</b>	Grid 6 <b>81.4 M4</b>
Grid 7 <b>158.5 M4</b>	Grid 8 <b>170.9 M4</b>	Grid 9 <b>166.3 M4</b>



0 dB = 170.9V/m



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

Date: 08/22/2012

**S2150\_Dual\_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: 2/17/2012  
 Sensor-Surface: (Fix Surface),  
 Electronics: DAE4 Sn527, Calibrated: 7/30/2012  
 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 = 144.4 V/m

Probe Modulation Factor = 1.00

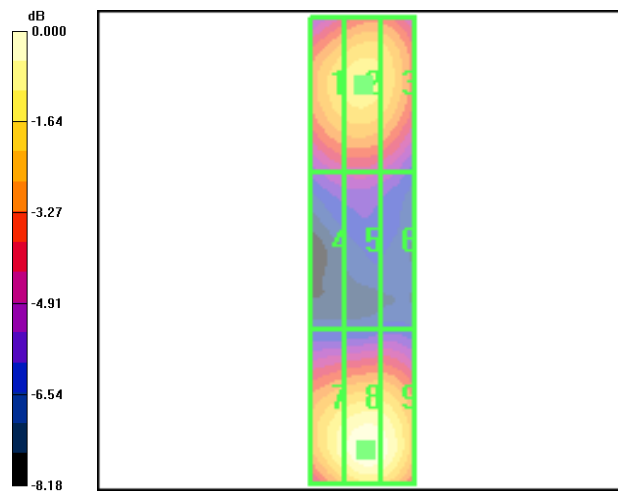
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 163.6 V/m; Power Drift = -0.045 dB

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

Peak E-field in V/m

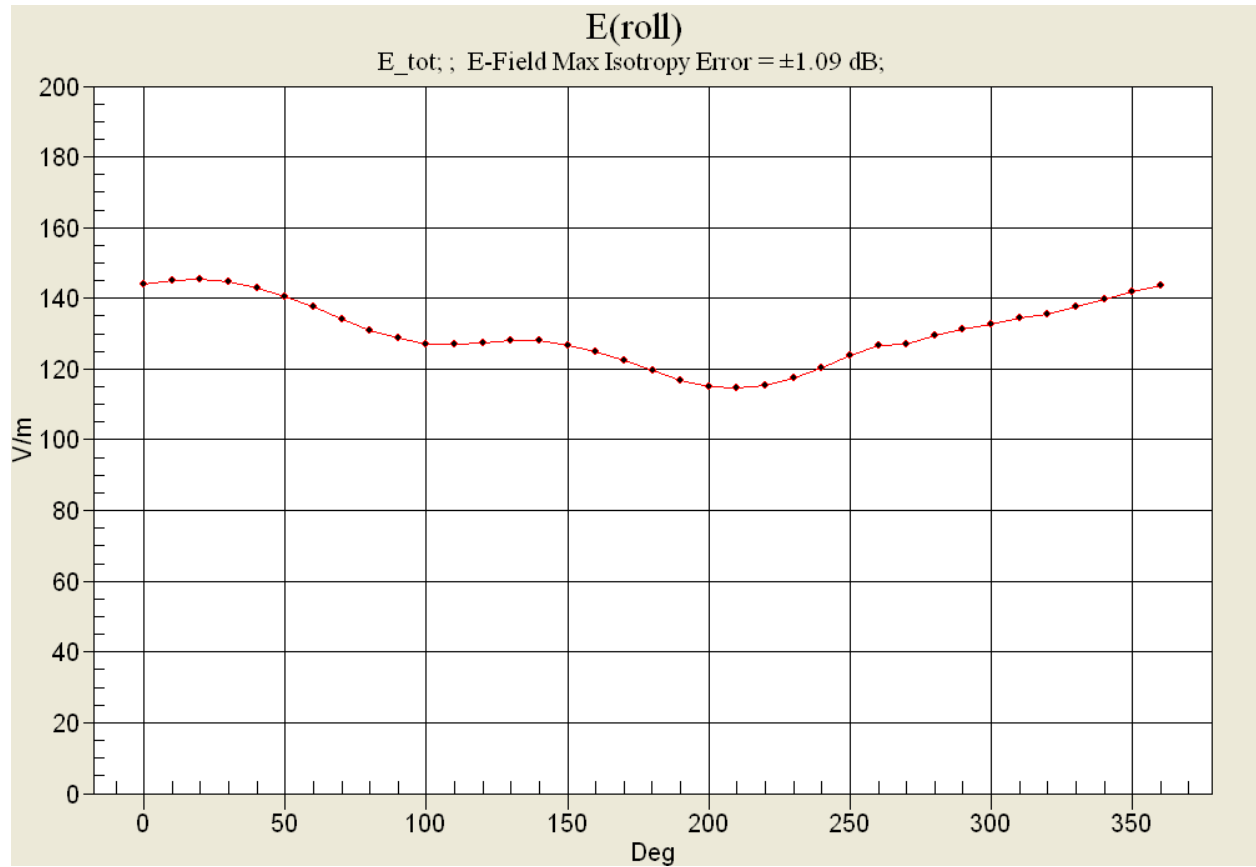
Grid 1 <b>121.1 M2</b>	Grid 2 <b>124.2 M2</b>	Grid 3 <b>120.6 M2</b>
Grid 4 <b>84.2 M3</b>	Grid 5 <b>85.1 M3</b>	Grid 6 <b>81.5 M3</b>
Grid 7 <b>134.6 M2</b>	Grid 8 <b>144.4 M2</b>	Grid 9 <b>140.8 M2</b>



0 dB = 144.4V/m



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**Validation H Field Probe SN6029, Dipole SN1015, 835MHz**

Date: 08/22/2012

**S2150\_Dual\_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: 2/17/2012  
 Sensor-Surface: (Fix Surface),  
 Electronics: DAE4 Sn527, Calibrated: 7/30/2012  
 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 = 0.469 A/m

Probe Modulation Factor = 1.00

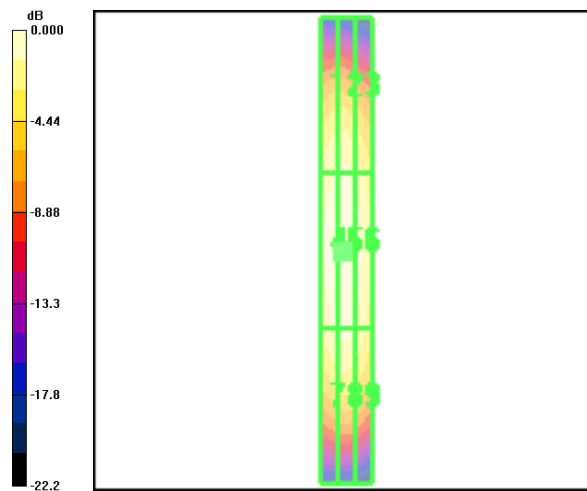
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.513 A/m; Power Drift = -0.139 dB

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

Peak H-field in A/m

Grid 1 <b>0.404 M4</b>	Grid 2 <b>0.411 M4</b>	Grid 3 <b>0.370 M4</b>
Grid 4 <b>0.457 M4</b>	Grid 5 <b>0.469 M4</b>	Grid 6 <b>0.429 M4</b>
Grid 7 <b>0.404 M4</b>	Grid 8 <b>0.417 M4</b>	Grid 9 <b>0.389 M4</b>



**Validation H Field Probe SN6029, Dipole SN1015, 1900MHz**

Date: 08/22/2012

**S2150\_Dual\_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: 2/17/2012  
 Sensor-Surface: (Fix Surface),  
 Electronics: DAE4 Sn527, Calibrated: 7/30/2012  
 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 = 0.467 A/m

Probe Modulation Factor = 1.00

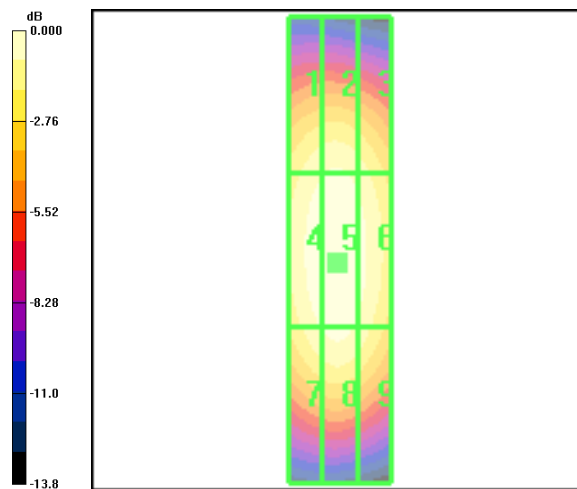
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.517 A/m; Power Drift = -0.108 dB

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

Peak H-field in A/m

Grid 1 <b>0.414 M2</b>	Grid 2 <b>0.426 M2</b>	Grid 3 <b>0.401 M2</b>
Grid 4 <b>0.453 M2</b>	Grid 5 <b>0.467 M2</b>	Grid 6 <b>0.440 M2</b>
Grid 7 <b>0.422 M2</b>	Grid 8 <b>0.437 M2</b>	Grid 9 <b>0.409 M2</b>



0 dB = 0.467A/m