

Applicant:	Kyocera
FCC ID:	V65S2150A1
Report #:	CT- S2150-20RFB-0213-R0

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

Date: 02/22/2013

**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

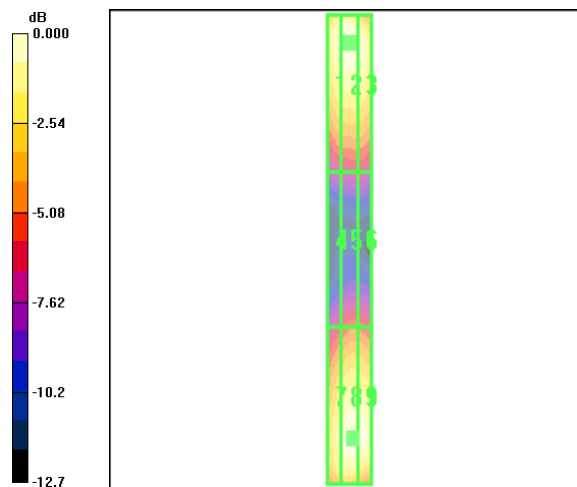
**DASY4 Configuration:**

Probe: ER3DV6 - SN2341, ConvF(1, 1, 1), Calibrated: 9/14/2012  
 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 °C ± 1 deg C, Liquid T = 22.0 °C ± 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 = 169.4 V/m  
 Probe Modulation Factor = 1.00  
 Device Reference Point: 0.000, 0.000, -6.30 mm  
 Reference Value = 165.1 V/m; Power Drift = 0.107 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

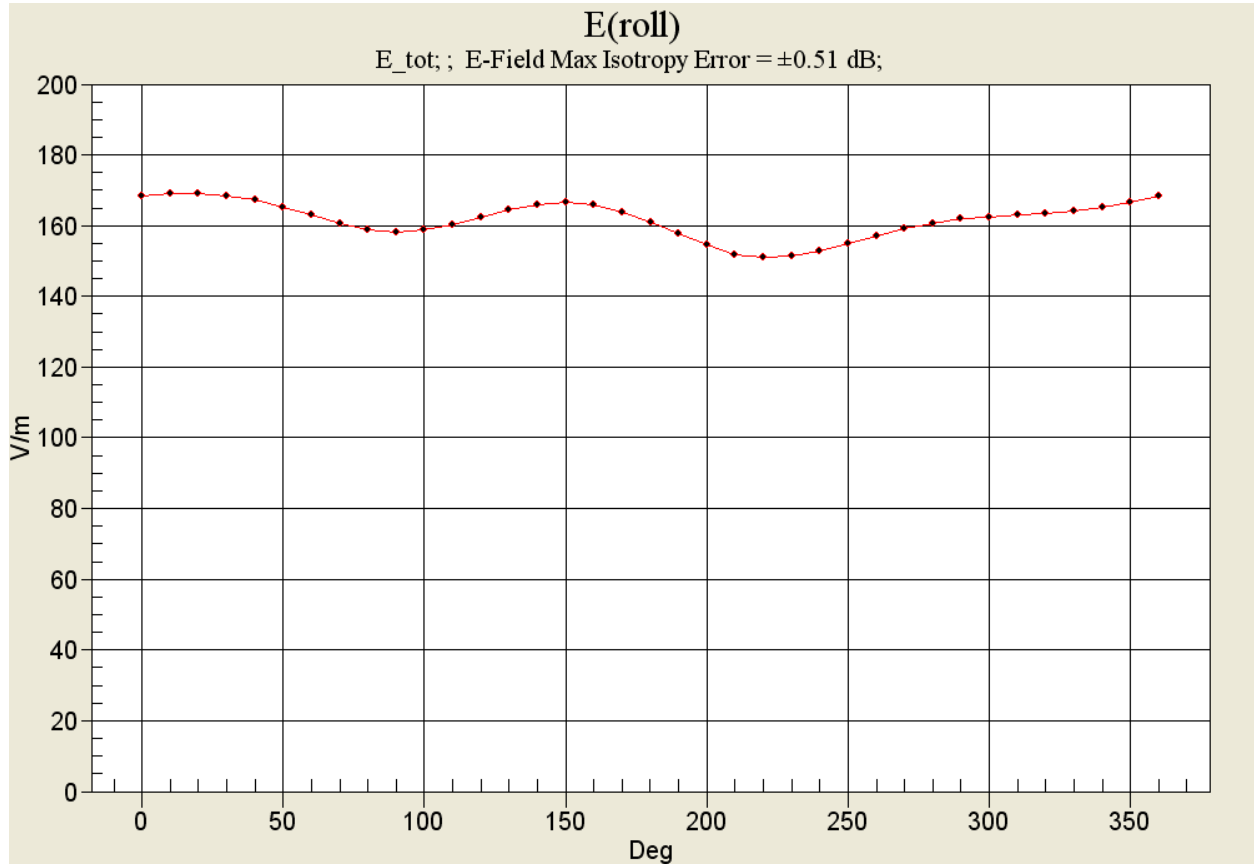
Grid 1 <b>163.4 M4</b>	Grid 2 <b>169.4 M4</b>	Grid 3 <b>164.7 M4</b>
Grid 4 <b>85.9 M4</b>	Grid 5 <b>93.6 M4</b>	Grid 6 <b>92.7 M4</b>
Grid 7 <b>151.7 M4</b>	Grid 8 <b>165.6 M4</b>	Grid 9 <b>164.3 M4</b>



0 dB = 169.4V/m



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

Date: 02/22/2013

**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:**

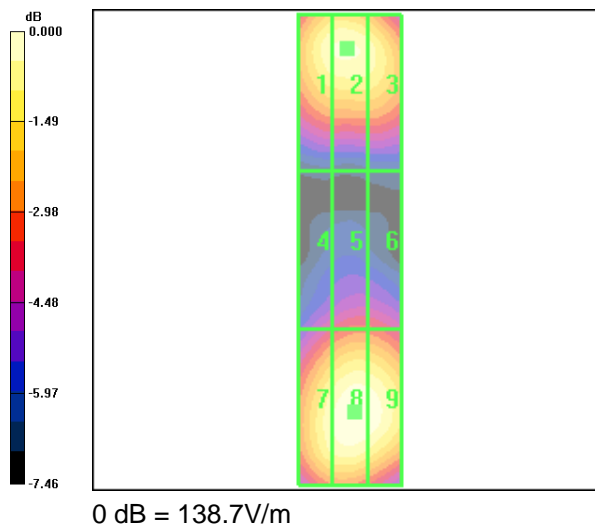
Probe: ER3DV6 - SN2341, ConvF(1, 1, 1), Calibrated: 9/14/2012  
 Sensor-Surface: (Fix Surface),  
 Electronics: DAE4 Sn527, Calibrated: 7/30/2012  
 Measurement SW: DASY4, V4.7 Build 80  
 Postprocessing SW: SEMCAD, V1.8 Build 186  
**Temperature:** Room T = 21.8 °C ± 1 deg C, Liquid T = 22.0 °C ± 1 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 = 138.7 V/m  
 Probe Modulation Factor = 1.00  
 Device Reference Point: 0.000, 0.000, -6.30 mm  
 Reference Value = 140.5 V/m; Power Drift = -0.077 dB  
**Hearing Aid Near-Field Category: M2 (AWF 0 dB)**

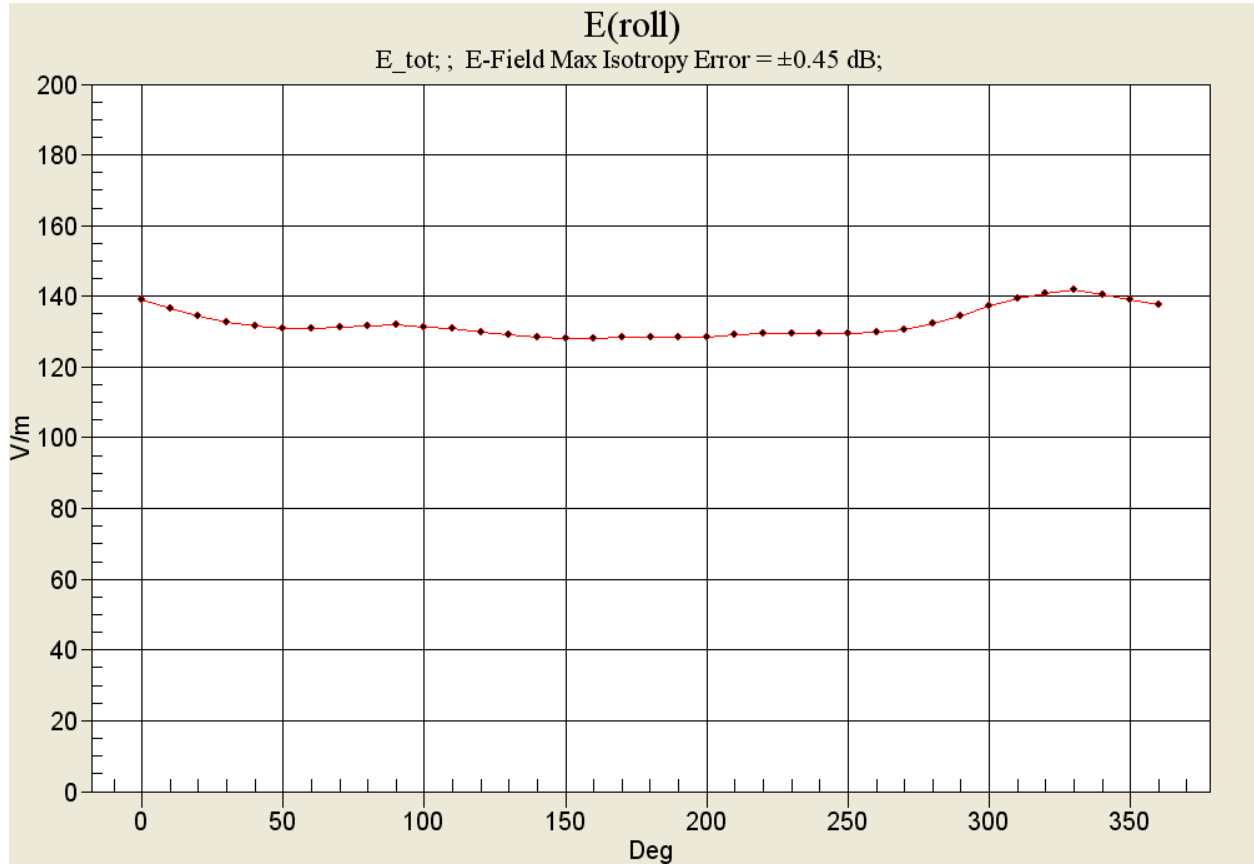
Peak E-field in V/m

Grid 1 <b>131.1 M2</b>	Grid 2 <b>133.3 M2</b>	Grid 3 <b>128.4 M2</b>
Grid 4 <b>88.4 M3</b>	Grid 5 <b>95.3 M3</b>	Grid 6 <b>94.7 M3</b>
Grid 7 <b>130.6 M2</b>	Grid 8 <b>138.7 M2</b>	Grid 9 <b>137.1 M2</b>





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**Validation H Field Probe SN6123, Dipole SN1015, 835MHz**

Date: 02/22/2013

**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: H3DV5 - SN6029, , Calibrated: 9/14/2012  
 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 °C ± 1 deg C, Liquid T = 22.0 °C ± 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 = 0.444 A/m

Probe Modulation Factor = 1.00

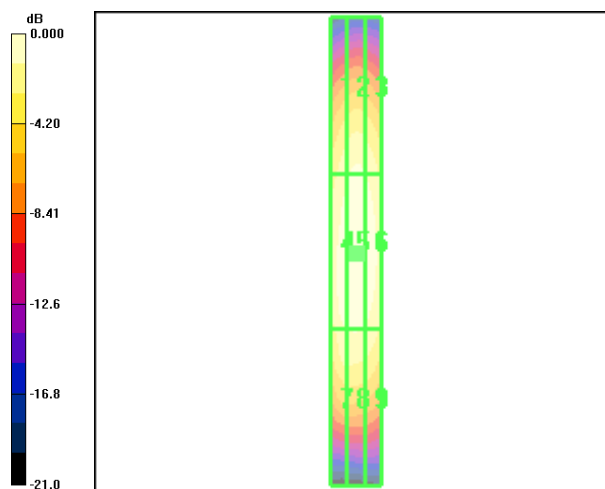
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.495 A/m; Power Drift = -0.053 dB

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

Peak H-field in A/m

Grid 1 <b>0.367 M4</b>	Grid 2 <b>0.393 M4</b>	Grid 3 <b>0.377 M4</b>
Grid 4 <b>0.436 M4</b>	Grid 5 <b>0.444 M4</b>	Grid 6 <b>0.428 M4</b>
Grid 7 <b>0.379 M4</b>	Grid 8 <b>0.383 M4</b>	Grid 9 <b>0.373 M4</b>



0 dB = 0.444A/m

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

Date: 02/22/2013

**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: H3DV5 - SN6029, , Calibrated: 9/14/2012  
 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 °C ± 1 deg C, Liquid T = 22.0 °C ± 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 = 0.475 A/m

Probe Modulation Factor = 1.00

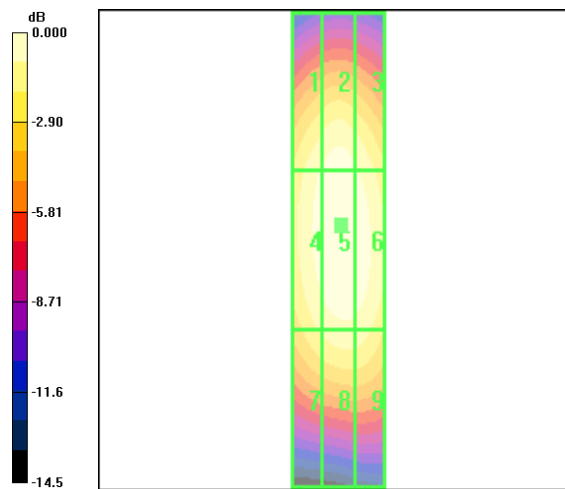
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.522 A/m; Power Drift = -0.163 dB

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

Peak H-field in A/m

Grid 1 <b>0.430 M2</b>	Grid 2 <b>0.453 M2</b>	Grid 3 <b>0.432 M2</b>
Grid 4 <b>0.450 M2</b>	Grid 5 <b>0.475 M2</b>	Grid 6 <b>0.461 M2</b>
Grid 7 <b>0.390 M2</b>	Grid 8 <b>0.413 M2</b>	Grid 9 <b>0.410 M2</b>



0 dB = 0.475A/m