EXHIBIT 12 Appendix B: Validation HAC RF Plots

Validation E Field Probe SN2282, Dipole SN1020, 835MHz

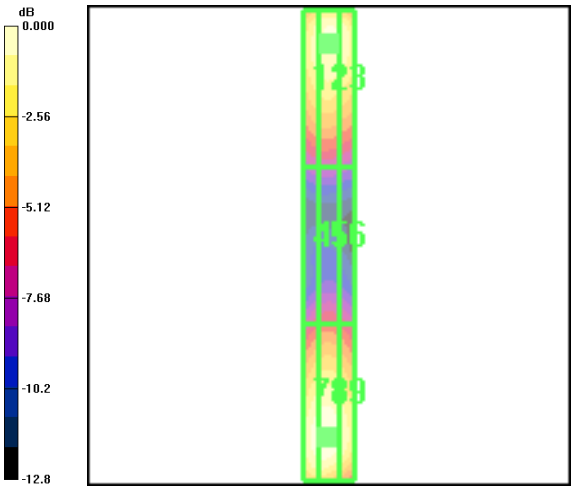
Date: 07/27/2011

Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1
Medium: Air,Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1000 kg/m^3
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 Sn603,Calibrated: 9/20/2010
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

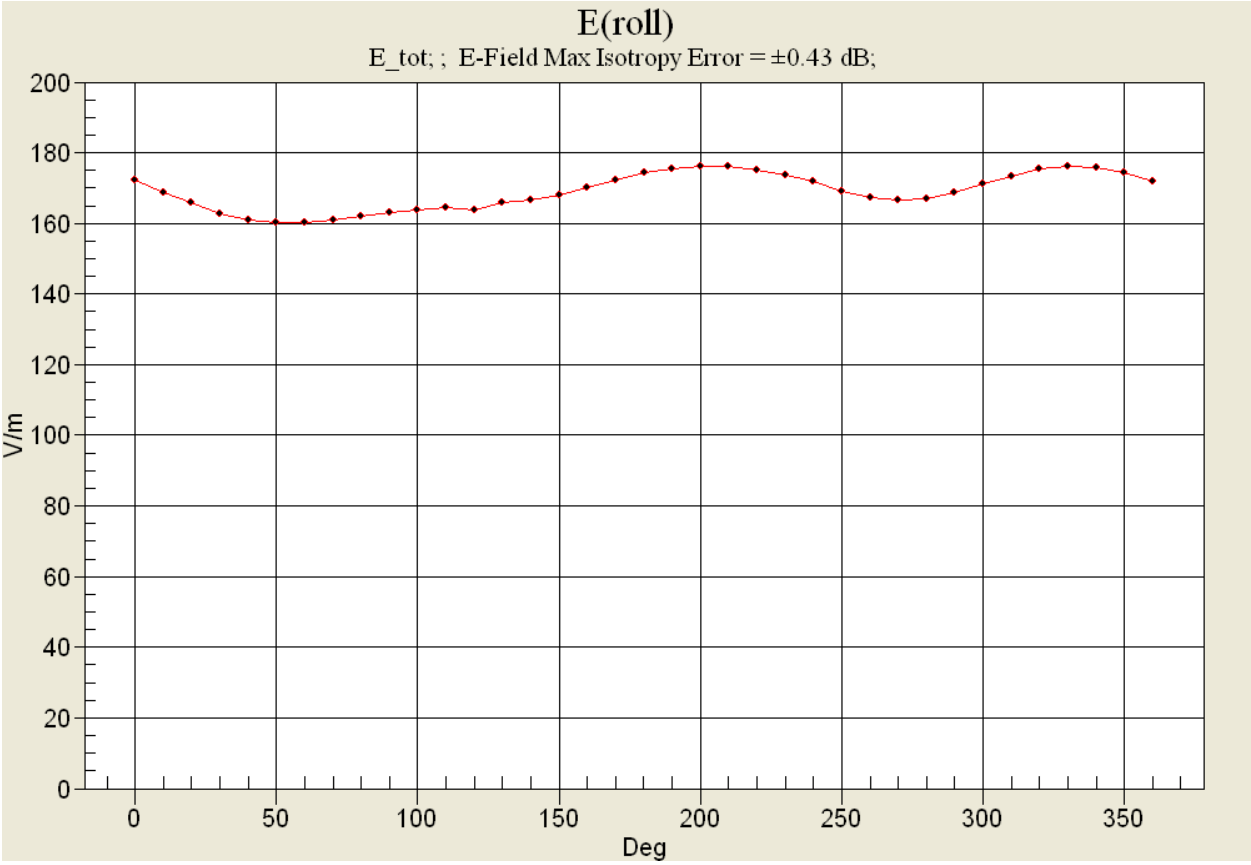
E Scan 835 - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 172.6 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, -6.30 mm
Reference Value = 181.2 V/m; Power Drift = 0.023 dB

Peak E-field in V/m

Grid 1 **156.2 M4**	Grid 2 **161.8 M4**	Grid 3 **159.5 M4**
Grid 4 **87.1 M4**	Grid 5 **89.9 M4**	Grid 6 **86.6 M4**
Grid 7 **170.3 M4**	Grid 8 **172.6 M4**	Grid 9 **161.9 M4**



0 dB = 172.6V/m



Validation H Field Probe SN6123, Dipole SN1020, 835MHz

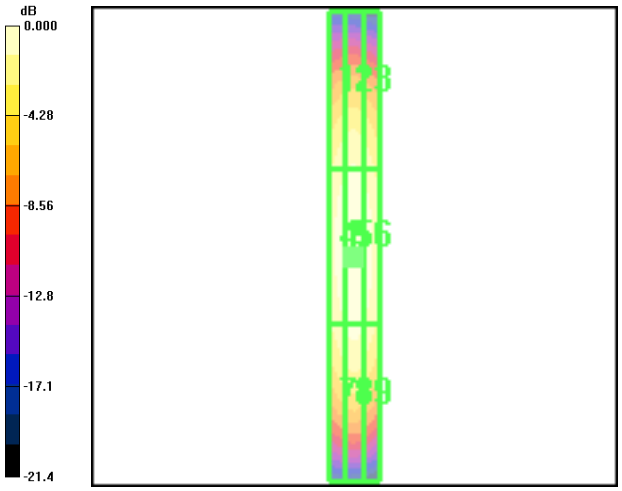
Date: 07/27/2011

Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1
Medium: Air,Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1 kg/m^3
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 Sn603,Calibrated: 9/20/2010
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 = 0.516 A/m; Power Drift = 0.126 dB

Peak H-field in A/m

Grid 1 **0.391 M4**	Grid 2 **0.404 M4**	Grid 3 **0.384 M4**
Grid 4 **0.448 M4**	Grid 5 **0.469 M4**	Grid 6 **0.446 M4**
Grid 7 **0.401 M4**	Grid 8 **0.422 M4**	Grid 9 **0.397 M4**



0 dB = 0.469A/m

Validation E Field Probe SN2341, Dipole SN1015, 1900MHz

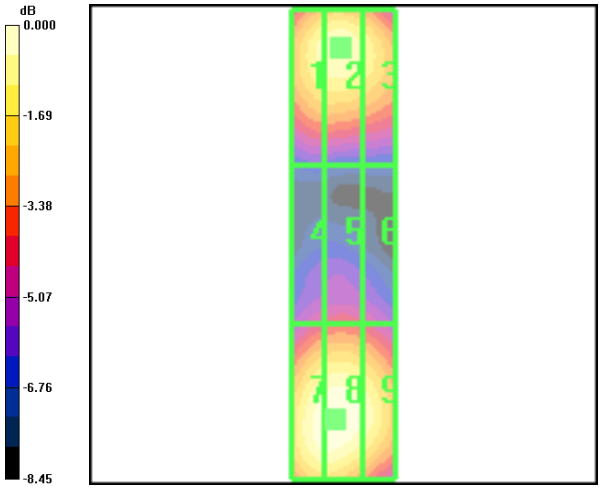
Date: 07/27/2011

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1
Medium: Air,Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1000 kg/m^3
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 Sn603,Calibrated: 9/20/2010
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

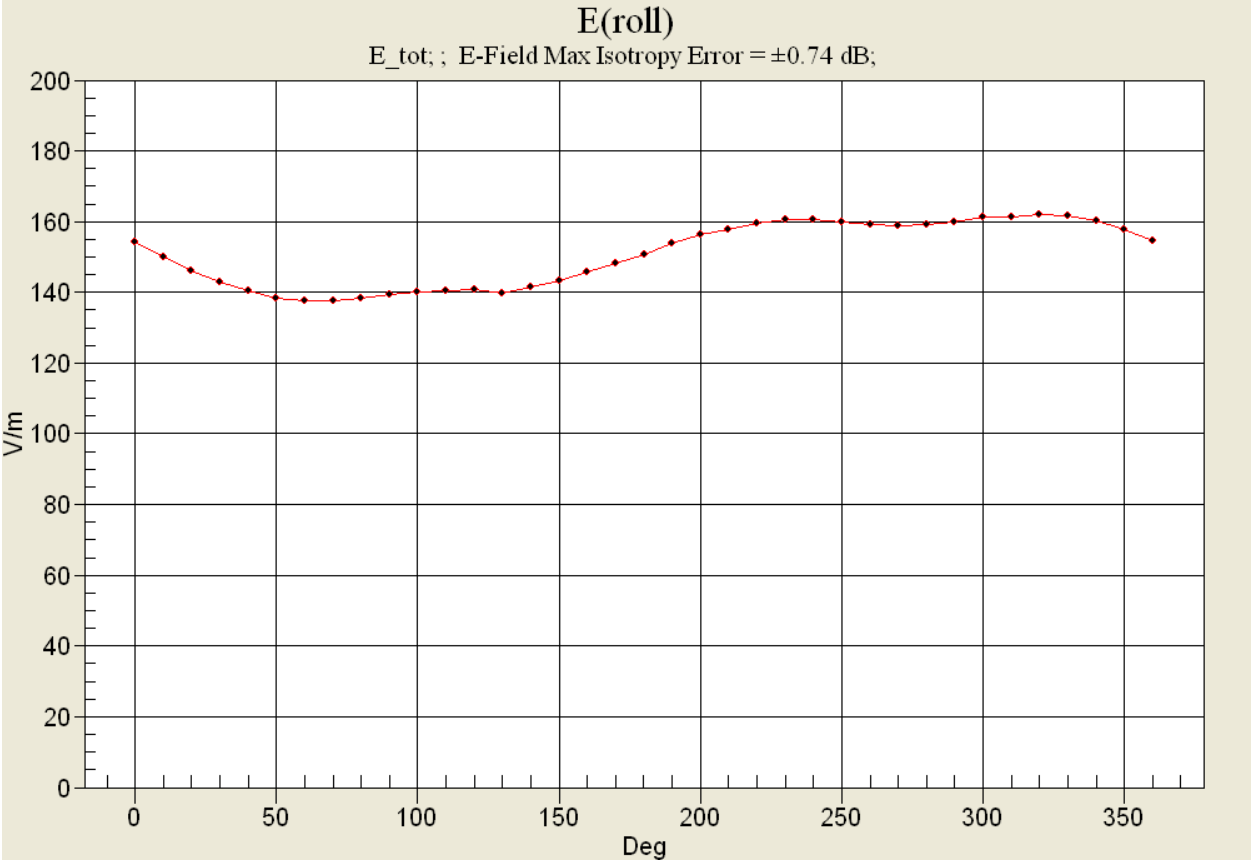
E Scan 1880 - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 153.0 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, -6.30 mm
Reference Value = 160.9 V/m; Power Drift = -0.187 dB

Peak E-field in V/m

Grid 1 **140.8 M2**	Grid 2 **144.4 M2**	Grid 3 **135.9 M2**
Grid 4 **93.8 M3**	Grid 5 **96.7 M3**	Grid 6 **93.0 M3**
Grid 7 **151.4 M2**	Grid 8 **153.0 M2**	Grid 9 **143.8 M2**



0 dB = 153.0V/m



Validation H Field Probe SN6123, Dipole SN1015, 1900MHz

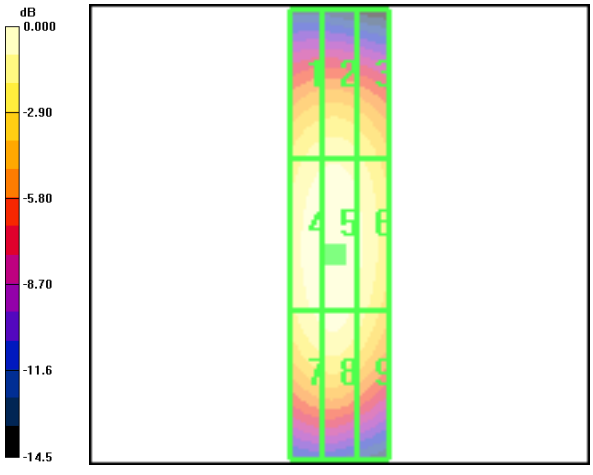
Date: 07/27/2011

Communication System: CW, Frequency: 1800 MHz, Duty Cycle: 1:1
Medium: Air,Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1 kg/m^3
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 Sn603,Calibrated: 9/20/2010
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 = 0.501 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, -6.30 mm
Reference Value = 0.547 A/m; Power Drift = -0.009 dB

Peak H-field in A/m

Grid 1 **0.436 M2**	Grid 2 **0.443 M2**	Grid 3 **0.415 M2**
Grid 4 **0.492 M2**	Grid 5 **0.501 M2**	Grid 6 **0.464 M2**
Grid 7 **0.468 M2**	Grid 8 **0.478 M2**	Grid 9 **0.433 M2**



0 dB = 0.501A/m