Validation E Field Probe SN2282, Dipole SN1020, 835MHz

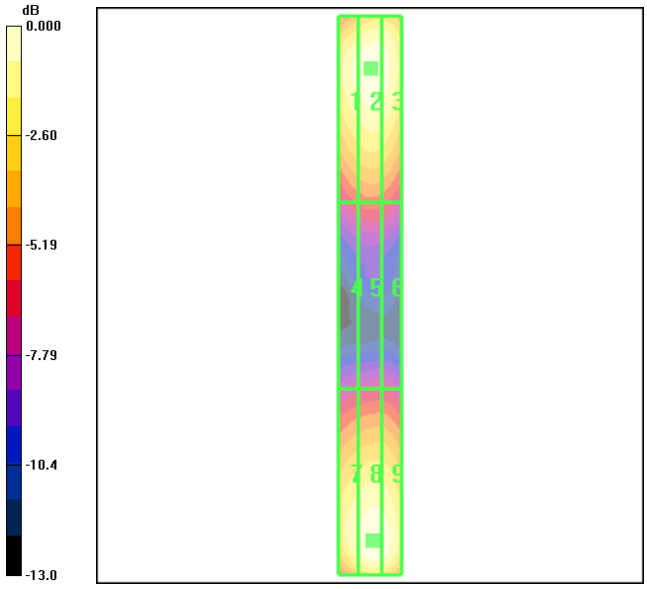
Date: 6/15/2010

Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1
Medium: Air,Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Phantom: HAC Test Arch with AMCC,Phantom section: RF Section
DASY4 Configuration:
Probe: ER3DV6 - SN2282, ConvF(1, 1, 1), Calibrated: 8/14/2009
Sensor-Surface: (Fix Surface),
Electronics: DAE4 Sn527,Calibrated: 7/9/2009
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 = 165.3 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, -6.30 mm
Reference Value = 186.9 V/m; Power Drift = -0.044 dB

Peak E-field in V/m

Grid 1 **156.4 M4**	Grid 2 **161.9 M4**	Grid 3 **159.7 M4**
Grid 4 **84.7 M4**	Grid 5 **87.9 M4**	Grid 6 **86.1 M4**
Grid 7 **153.6 M4**	Grid 8 **165.3 M4**	Grid 9 **162.9 M4**



0 dB = 165.3V/m

Validation H Field Probe SN6123, Dipole SN1020, 835MHz

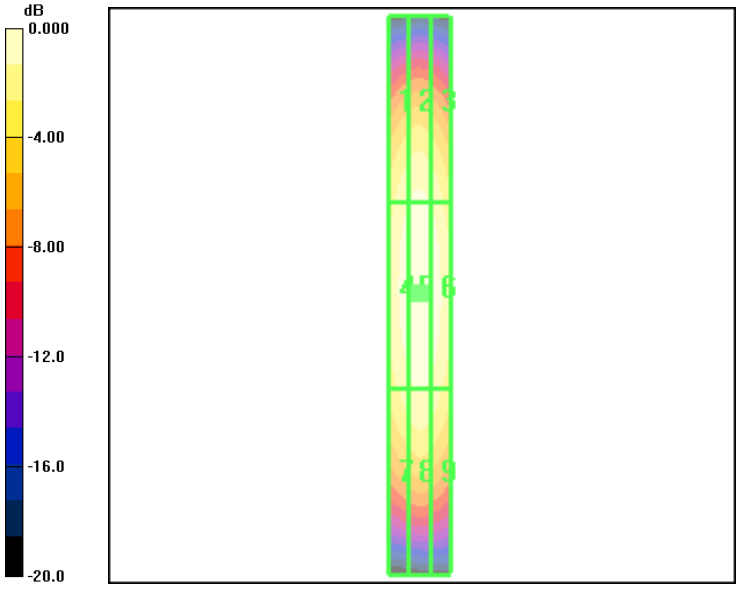
Date: 6/13/2010

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: 7/16/2009
Sensor-Surface: (Fix Surface),
Electronics: DAE4 Sn527,Calibrated: 7/9/2009
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 = 0.480 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, -6.30 mm
Reference Value = 0.510 A/m; Power Drift = -0.002 dB

Peak H-field in A/m

Grid 1 **0.410 M4**	Grid 2 **0.429 M4**	Grid 3 **0.410 M4**
Grid 4 **0.453 M4**	Grid 5 **0.480 M4**	Grid 6 **0.461 M4**
Grid 7 **0.392 M4**	Grid 8 **0.419 M4**	Grid 9 **0.400 M4**



0 dB = 0.480A/m

Validation E Field Probe SN2282, Dipole SN1015, 1900MHz

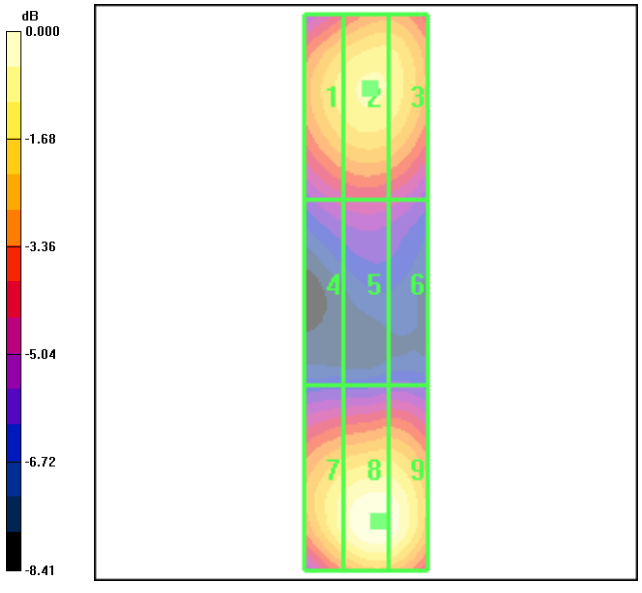
Date: 6/15/2010

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1
Medium: Air,Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Phantom: HAC Test Arch with AMCC,Phantom section: RF Section
DASY4 Configuration:
Probe: ER3DV6 - SN2282, ConvF(1, 1, 1), Calibrated: 8/14/2009
Sensor-Surface: (Fix Surface),
Electronics: DAE4 Sn527,Calibrated: 7/9/2009
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 = 147.7 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, -6.30 mm
Reference Value = 164.0 V/m; Power Drift = -0.045 dB

Peak E-field in V/m

Grid 1 **126.3 M2**	Grid 2 **131.6 M2**	Grid 3 **129.4 M2**
Grid 4 **86.3 M3**	Grid 5 **88.7 M3**	Grid 6 **86.4 M3**
Grid 7 **135.5 M2**	Grid 8 **147.7 M2**	Grid 9 **145.8 M2**



0 dB = 147.7V/m

Validation H Field Probe SN6123, Dipole SN1015, 1900MHz

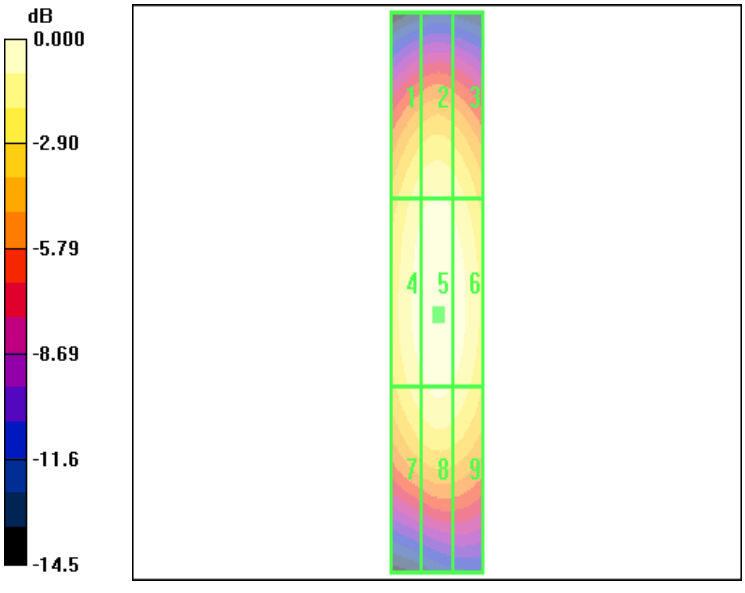
Date: 6/13/2010

Communication System: CW, Frequency: 1900 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: 7/16/2009
Sensor-Surface: (Fix Surface),
Electronics: DAE4 Sn527,Calibrated: 7/9/2009
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 = 0.453 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, -6.30 mm
Reference Value = 0.487 A/m; Power Drift = -0.073 dB

Peak H-field in A/m

Grid 1 **0.390 M2**	Grid 2 **0.412 M2**	Grid 3 **0.392 M2**
Grid 4 **0.430 M2**	Grid 5 **0.453 M2**	Grid 6 **0.437 M2**
Grid 7 **0.394 M2**	Grid 8 **0.418 M2**	Grid 9 **0.403 M2**



0 dB = 0.453A/m