Validation E Field Probe SN2341, Dipole SN1020, 835MHz

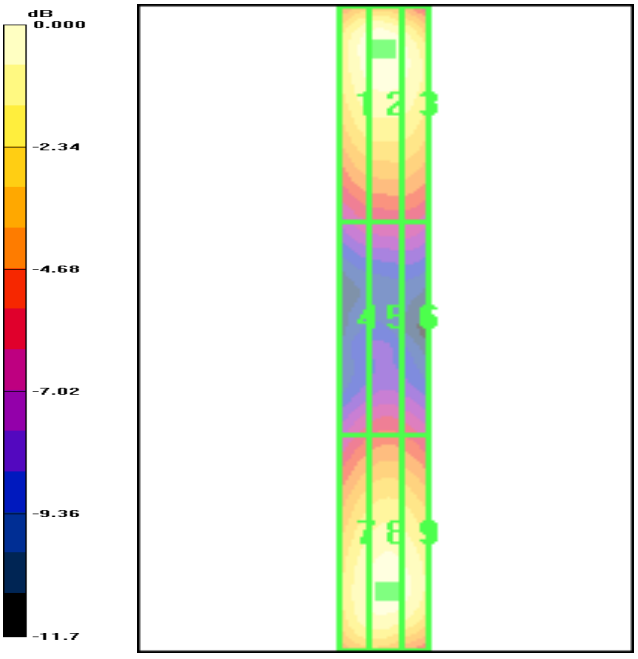
Date: 9/21/2009

Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1
Medium: Air_1,Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Phantom: HAC Test Arch,Phantom section: E Dipole Section
DASY4 Configuration:
Probe: ER3DV6 - SN2341, ConvF(1, 1, 1), Calibrated: 3/10/2009
Sensor-Surface: (Fix Surface),
Electronics: DAE4 Sn530,Calibrated: 3/12/2009
Measurement SW: DASY4, V4.7 Build 71
Postprocessing SW: SEMCAD, V1.8 Build 184
Temperature:
Room T = 21.8 ± 1 deg C, Liquid T = 22.0 ± 1 deg C

E 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 = 154.3 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 52.8 V/m; Power Drift = -0.095 dB

Peak E-field in V/m

Grid 1 **150.8 M4**	Grid 2 **154.3 M4**	Grid 3 **147.5 M4**
Grid 4 **81.8 M4**	Grid 5 **85.5 M4**	Grid 6 **83.3 M4**
Grid 7 **144.1 M4**	Grid 8 **149.7 M4**	Grid 9 **146.6 M4**



0 dB = 154.3V/m

Validation E Field Probe SN2341, Dipole SN1015, 1700MHz

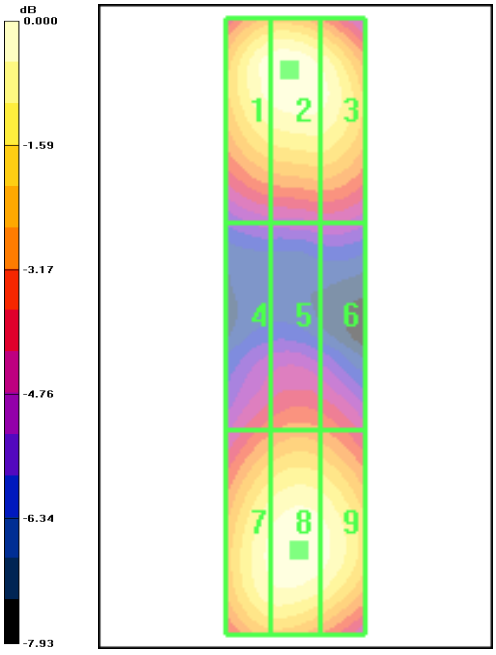
Date: 9/21/2009

Communication System: CW, Frequency: 1800 MHz, Duty Cycle: 1:1
Medium: Air_1,Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Phantom: HAC Test Arch,Phantom section: E Dipole Section
DASY4 Configuration:
Probe: ER3DV6 - SN2341, ConvF(1, 1, 1), Calibrated: 3/10/2009
Sensor-Surface: (Fix Surface),
Electronics: DAE4 Sn530,Calibrated: 3/12/2009
Measurement SW: DASY4, V4.7 Build 71
Postprocessing SW: SEMCAD, V1.8 Build 184
Temperature:
Room T = 21.8 ± 1 deg C, Liquid T = 22.0 ± 1 deg C

E Scan - measurement distance from the probe sensor center to CD1700 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 142.2 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 115.9 V/m; Power Drift = 0.035 dB

Peak E-field in V/m

Grid 1 **139.8 M2**	Grid 2 **142.2 M2**	Grid 3 **137.9 M2**
Grid 4 **97.3 M3**	Grid 5 **101.7 M3**	Grid 6 **99.6 M3**
Grid 7 **136.7 M2**	Grid 8 **141.1 M2**	Grid 9 **138.0 M2**



0 dB = 142.2V/m

Validation E Field Probe SN2341, Dipole SN1015, 1900MHz

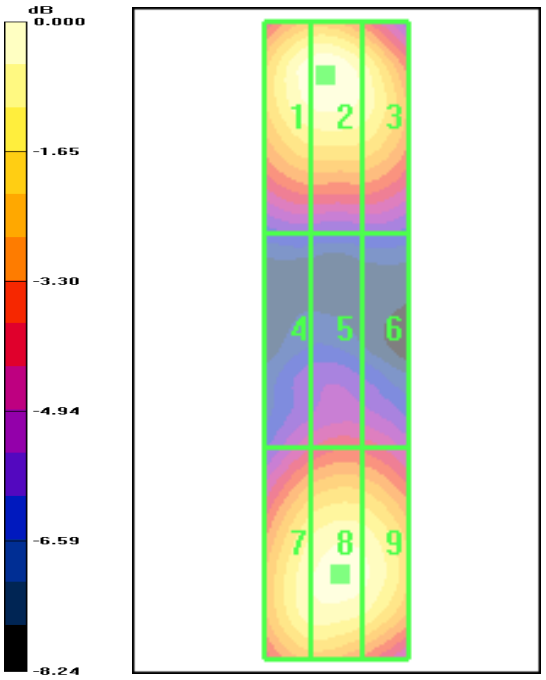
Date: 9/21/2009

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1
Medium: Air_1,Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Phantom: HAC Test Arch,Phantom section: RF Section
DASY4 Configuration:
Probe: ER3DV6 - SN2341, ConvF(1, 1, 1), Calibrated: 3/10/2009
Sensor-Surface: (Fix Surface),
Electronics: DAE4 Sn530,Calibrated: 3/12/2009
Measurement SW: DASY4, V4.7 Build 71
Postprocessing SW: SEMCAD, V1.8 Build 184
Temperature:
Room T = 21.8 1 deg C, Liquid T = 22.0 1 deg C

E 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 = 147.4 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, -6.30 mm
Reference Value = 141.1 V/m; Power Drift = -0.084 dB

Peak E-field in V/m

Grid 1 **145.3 M2**	Grid 2 **147.4 M2**	Grid 3 **138.1 M2**
Grid 4 **88.7 M3**	Grid 5 **93.6 M3**	Grid 6 **92.6 M3**
Grid 7 **138.2 M2**	Grid 8 **142.7 M2**	Grid 9 **140.8 M2**



0 dB = 147.4V/m

Validation H Field Probe SN6123, Dipole SN1020, 835MHz

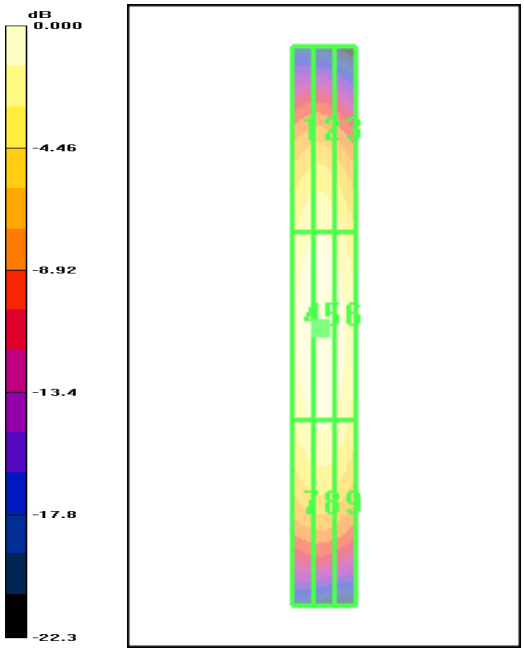
Date: 9/21/2009

Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1
Medium: Air_1,Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1 kg/m^3
Phantom: HAC Test Arch,Phantom section: E Dipole Section
DASY4 Configuration:
Probe: H3DV6 - SN6123, , Calibrated: 8/18/2008
Sensor-Surface: (Fix Surface),
Electronics: DAE4 Sn530,Calibrated: 3/12/2009
Measurement SW: DASY4, V4.7 Build 71
Postprocessing SW: SEMCAD, V1.8 Build 184
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 = 0.441 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 0.406 A/m; Power Drift = 0.109 dB

Peak H-field in A/m

Grid 1 **0.368 M4**	Grid 2 **0.374 M4**	Grid 3 **0.346 M4**
Grid 4 **0.431 M4**	Grid 5 **0.441 M4**	Grid 6 **0.415 M4**
Grid 7 **0.377 M4**	Grid 8 **0.385 M4**	Grid 9 **0.364 M4**



0 dB = 0.441A/m

Validation H Field Probe SN6123, Dipole SN1015, 1700MHz

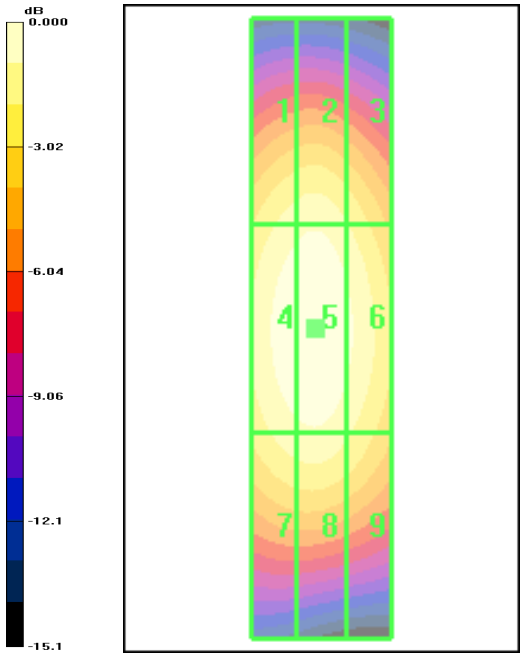
Date: 9/21/2009

Communication System: CW, Frequency: 1800 MHz, Duty Cycle: 1:1
Medium: Air_1,Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1 kg/m^3
Phantom: HAC Test Arch,Phantom section: E Dipole Section
DASY4 Configuration:
Probe: H3DV6 - SN6123, , Calibrated: 8/18/2008
Sensor-Surface: (Fix Surface),
Electronics: DAE4 Sn530,Calibrated: 3/12/2009
Measurement SW: DASY4, V4.7 Build 71
Postprocessing SW: SEMCAD, V1.8 Build 184
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 CD1700 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.439 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 0.403 A/m; Power Drift = -0.057 dB

Peak H-field in A/m

Grid 1 **0.376 M2**	Grid 2 **0.386 M2**	Grid 3 **0.353 M2**
Grid 4 **0.428 M2**	Grid 5 **0.439 M2**	Grid 6 **0.405 M2**
Grid 7 **0.379 M2**	Grid 8 **0.386 M2**	Grid 9 **0.357 M2**



0 dB = 0.439A/m

Validation H Field Probe SN6123, Dipole SN1015, 1900MHz

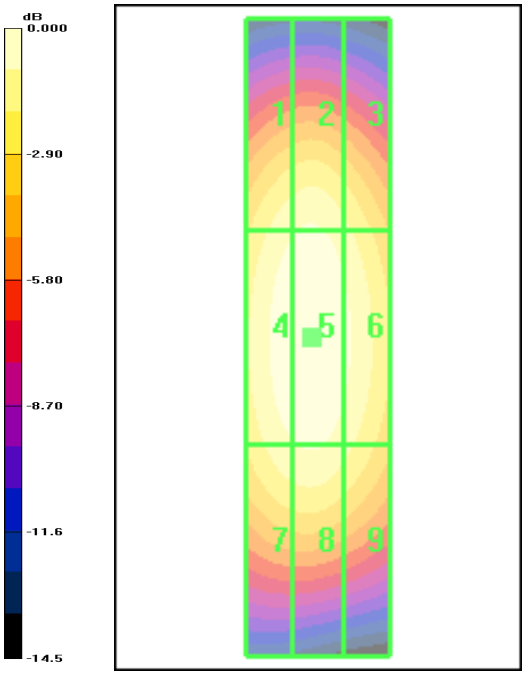
Date: 9/21/2009

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1
Medium: Air_1,Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1 kg/m^3
Phantom: HAC Test Arch,Phantom section: H Dipole Section
DASY4 Configuration:
Probe: H3DV6 - SN6123, , Calibrated: 8/18/2008
Sensor-Surface: (Fix Surface),
Electronics: DAE4 Sn530,Calibrated: 3/12/2009
Measurement SW: DASY4, V4.7 Build 71
Postprocessing SW: SEMCAD, V1.8 Build 184
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 = 0.471 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 0.435 A/m; Power Drift = 0.028 dB

Peak H-field in A/m

Grid 1 **0.417 M2**	Grid 2 **0.429 M2**	Grid 3 **0.394 M2**
Grid 4 **0.458 M2**	Grid 5 **0.471 M2**	Grid 6 **0.437 M2**
Grid 7 **0.419 M2**	Grid 8 **0.428 M2**	Grid 9 **0.396 M2**



0 dB = 0.471A/m