# Appendix A:

# Validation Test Plots

Date/Time: 12/18/2006 8:39:38 AM

Test Laboratory: Kyocera-Wireless Corp.

# 1900Mhz Validation @ 20dBm Probe 1664, DAE 675 and Dipole 5d003

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1
Medium: HSL1800,Medium parameters used (interpolated): f = 1900 MHz; $\sigma$ = 1.41 mho/m; $\varepsilon_r$ = 39.9; $\rho$ = 1000 kg/m$^3$
Phantom: SAM 12,Phantom section: Flat Section

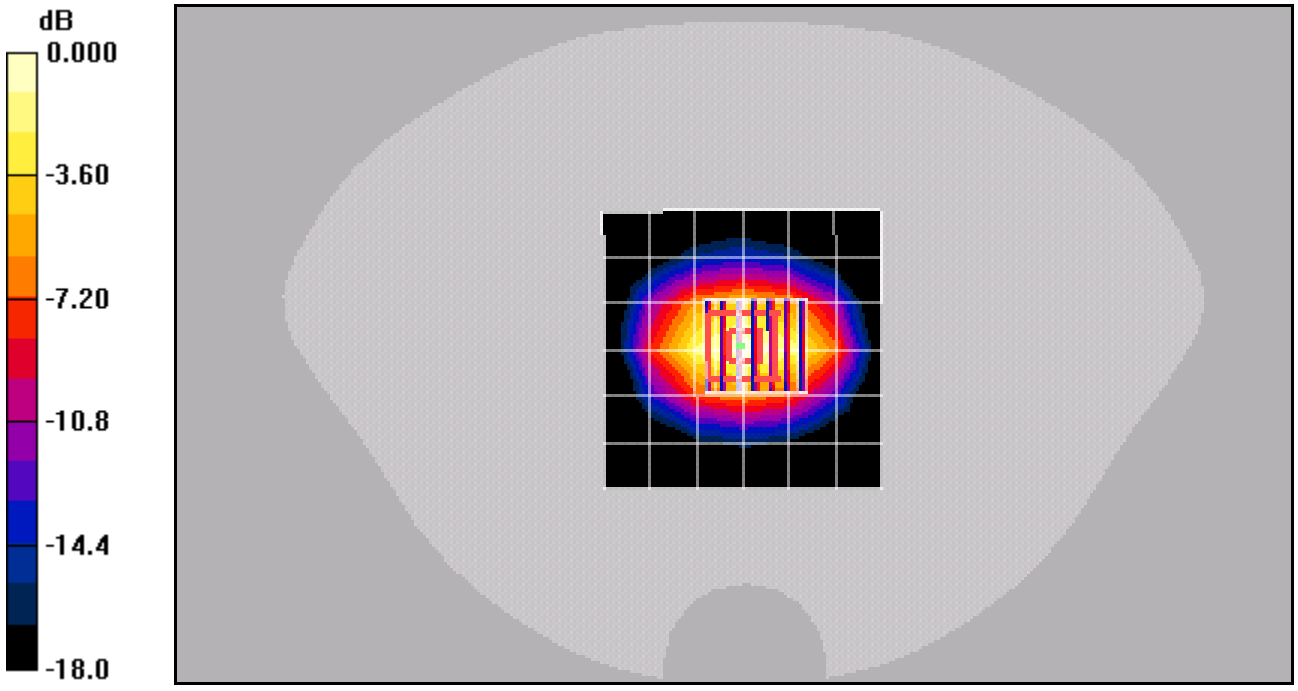
**DASY4 Configuration:**
Probe: ET3DV6 - SN1664, ConvF(5.05, 5.05, 5.05), Calibrated: 6/22/2006
Sensor-Surface: 4mm (Mechanical And Optical Surface Detection),
Electronics: DAE4 Sn675,Calibrated: 2/21/2006
Measurement SW: DASY4, V4.7 Build 44
Postprocessing SW: SEMCAD, V1.8 Build 160

**Temperature:**
Room T = 21.8 +/– 1 deg C, Liquid T = 22.0 +/– 1 deg C

## 1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 58.8 V/m; Power Drift = -0.040 dB
Peak SAR (extrapolated) = 6.76 W/kg
**SAR(1 g) = 3.91 mW/g; SAR(10 g) = 2.07 mW/g**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 4.42 mW/g




0 dB = 4.42mW/g

Date/Time: 12/20/2006 12:48:47 AM

Test Laboratory: Kyocera-Wireless Corp.

# 1900Mhz Validation @ 20dBm Probe 1664, DAE 675 and Dipole 5d003

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1
Medium: HSL1800,Medium parameters used (interpolated): f = 1900 MHz; $\sigma$ = 1.39 mho/m; $\varepsilon_r$ = 40.1; $\rho$ = 1000 kg/m$^3$
Phantom: SAM 12,Phantom section: Flat Section

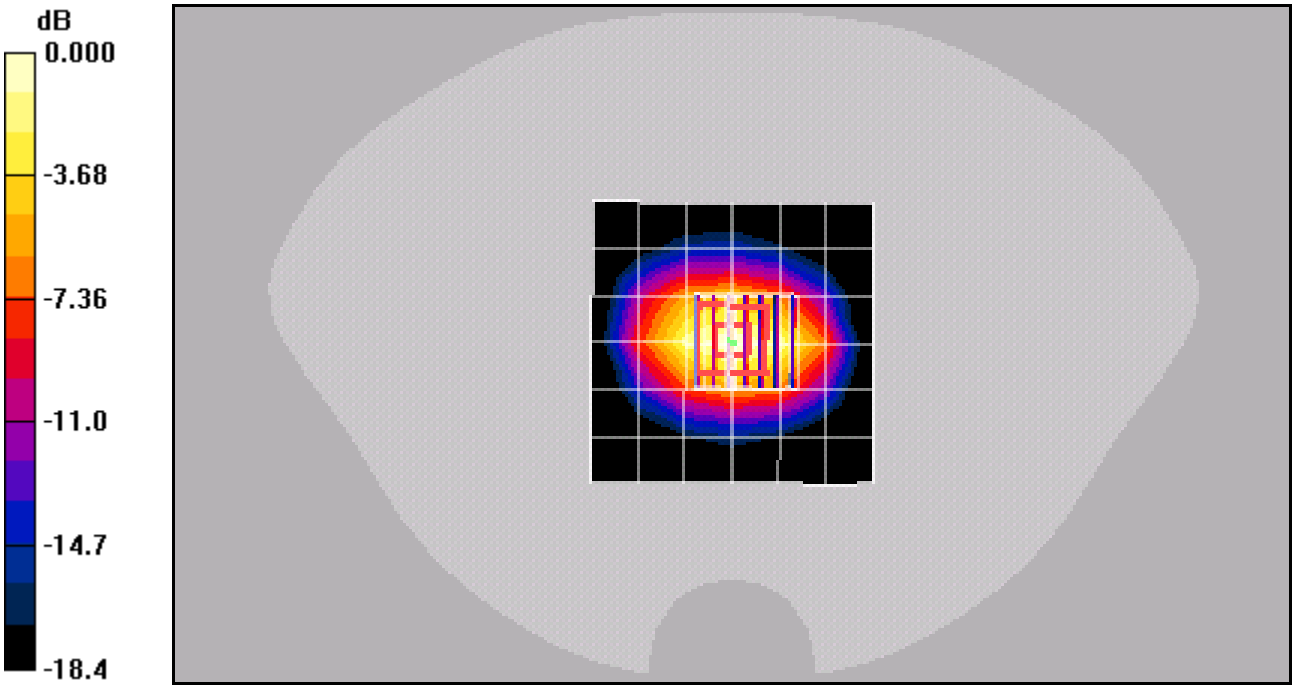
**DASY4 Configuration:**
Probe: ET3DV6 - SN1664, ConvF(5.05, 5.05, 5.05), Calibrated: 6/22/2006
Sensor-Surface: 4mm (Mechanical And Optical Surface Detection),
Electronics: DAE4 Sn675,Calibrated: 2/21/2006
Measurement SW: DASY4, V4.7 Build 44
Postprocessing SW: SEMCAD, V1.8 Build 160

**Temperature:**
Room T = 21.8 +/– 1 deg C, Liquid T = 22.0 +/– 1 deg C

## 1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 60.2 V/m; Power Drift = -0.043 dB
Peak SAR (extrapolated) = 6.81 W/kg
**SAR(1 g) = 3.91 mW/g; SAR(10 g) = 2.07 mW/g**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 4.45 mW/g




0 dB = 4.45mW/g