

Appendix A:

Validation Test Plots

Test Laboratory: Kyocera-Wireless Corp.

1900Mhz Validation @ 20dBm Probe 1664, DAE 527 and Dipole 5d016

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1
 Medium: HSL1800,Medium parameters used (interpolated): $f = 1900$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.1$; $\rho = 1000$ kg/m³
 Phantom: SAM 12,Phantom section: Flat Section

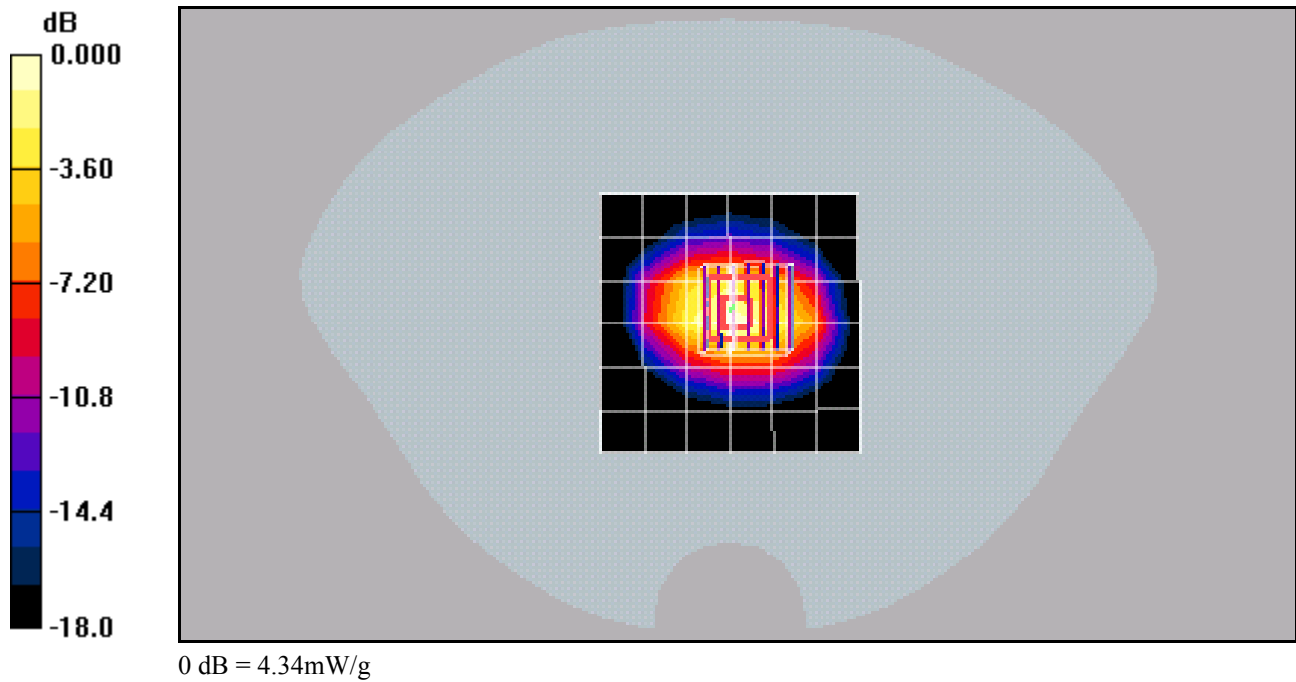
DASY4 Configuration:
 Probe: ET3DV6 - SN1664, ConvF(5.14, 5.14, 5.14), Calibrated: 7/16/2007
 Sensor-Surface: 4mm (Mechanical And Optical Surface Detection),
 Electronics: DAE4 Sn527,Calibrated: 9/14/2007
 Measurement SW: DASY4, V4.7 Build 55
 Postprocessing SW: SEMCAD, V1.8 Build 176

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 = 56.6 V/m; Power Drift = -0.106 dB
 Peak SAR (extrapolated) = 6.60 W/kg
 SAR(1 g) = 3.85 mW/g; SAR(10 g) = 2.02 mW/g

Info: [Interpolated medium parameters used for SAR evaluation.](#)
 Maximum value of SAR (measured) = 4.34 mW/g



Test Laboratory: Kyocera-Wireless Corp.

1900Mhz Validation (In Muscle) @ 20dBm Probe 1664, DAE 527 and Dipole 5d016

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1

Medium: M1800,Medium parameters used (interpolated): $f = 1900$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

Phantom: SAM 12,Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1664, ConvF(4.66, 4.66, 4.66), Calibrated: 7/16/2007

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection),

Electronics: DAE4 Sn527,Calibrated: 9/14/2007

Measurement SW: DASY4, V4.7 Build 55

Postprocessing SW: SEMCAD, V1.8 Build 176

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

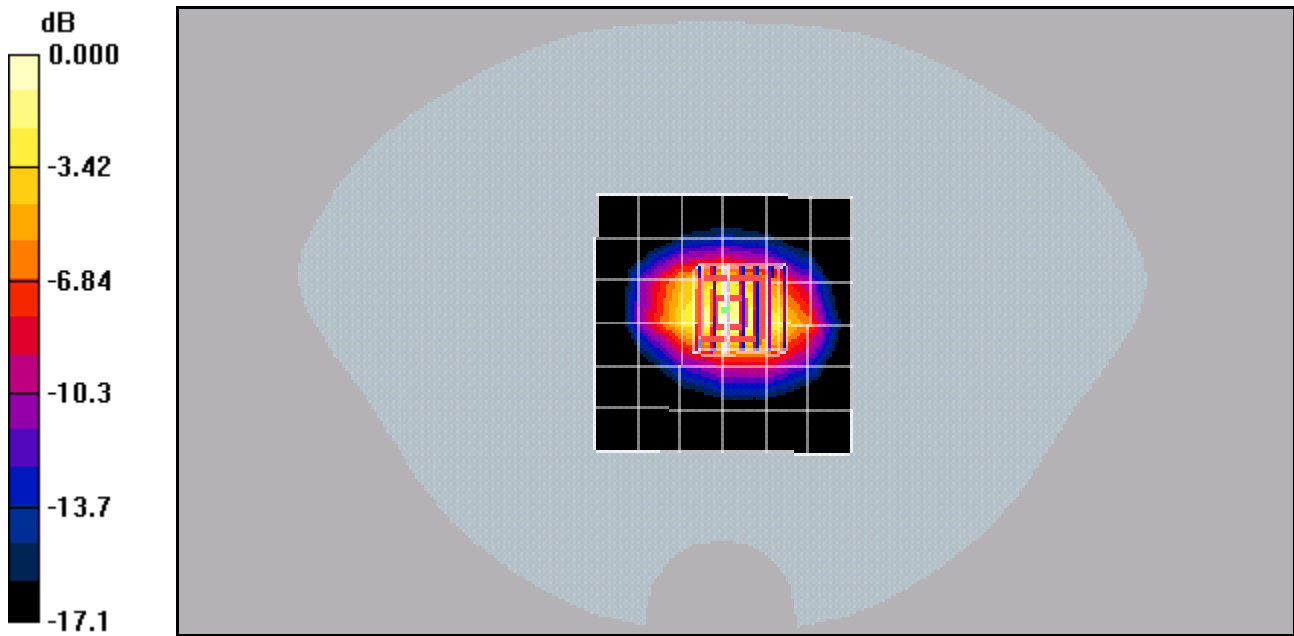
Reference Value = 54.0 V/m; Power Drift = 0.174 dB

Peak SAR (extrapolated) = 6.79 W/kg

SAR(1 g) = 4 mW/g; SAR(10 g) = 2.13 mW/g

Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.52 mW/g



0 dB = 4.52mW/g