

APPENDIX F

The Validation Measurements

SAMSUNG FCC ID : A3LSGHX200 1900 MHz Dipole Validation

DUT: Dipole 1900 MHz; Serial: 5d023
Program Name: 1900MHz Dipole Validation 2005.08.12
Procedure Name: 1900MHz @ 250mW

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 38.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(5.11, 5.11, 5.11); Calibrated: 2004-09-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2004-12-07
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

1900MHz @ 250mW/Area Scan (51x51x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$
Maximum value of SAR (interpolated) = 13.6 mW/g

1900MHz @ 250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 80.2 V/m; Power Drift = -0.020 dB
Peak SAR (extrapolated) = 17.7 W/kg
SAR(1 g) = 9.99 mW/g; SAR(10 g) = 5.24 mW/g
Maximum value of SAR (measured) = 11.2 mW/g

