

APPENDIX F

The Validation Measurements

DUT: Dipole 1900 MHz; Serial: 548
Program Name: 1900 Dipole Validation 2005.05.24
Procedure Name: 1900MHz @250mW
Procedure Notes:

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

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 Sn533; Calibrated: 2004-12-03
- 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: $dx=20$ mm, $dy=20$ mm
Maximum value of SAR (interpolated) = 16.1 mW/g

1900MHz @250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 91.9 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 18.1 W/kg

SAR(1 g) = 10.2 mW/g

Maximum value of SAR (measured) = 11.5 mW/g

