

Appendix A. Plots of System Performance Check

The plots are shown as follows.

SPORTON INTERNATIONAL (KUNSHAN) INC.

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Report No. : FA181603

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab

Date: 2011-11-2

System Check_Body_2450MHz_111102

DUT: Dipole 2450 MHz

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: MSL 2450 111101 Medium parameters used: f = 2450 MHz; $\sigma = 2.002$ mho/m; $\varepsilon_r =$

53.464; $\rho = 1000 \text{ kg/m}^3$

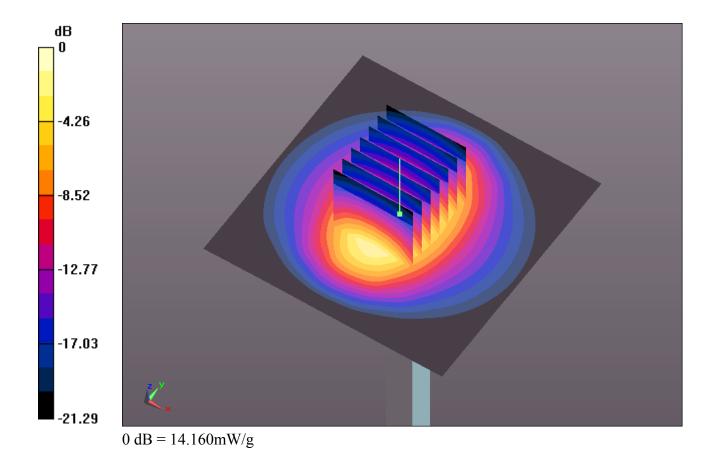
Ambient Temperature : 23.3 °C; Liquid Temperature : 21.4 °C

DASY5 Configuration:

- Probe: ET3DV6 SN1787; ConvF(3.96, 3.96, 3.96); Calibrated: 2011-5-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2010-11-18
- Phantom: SAM3; Type: SAM; Serial: TP-1079
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

Pin=250mW/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 14.886 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 87.225 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 31.854 W/kg SAR(1 g) = 13.1 mW/g; SAR(10 g) = 6.15 mW/g Maximum value of SAR (measured) = 14.165 mW/g



Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2011/12/15

System Check_Body_2450MHz_111215

DUT: Dipole 2450 MHz

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: MSL_2450_111215 Medium parameters used: f = 2450 MHz; $\sigma = 1.96$ mho/m; $\varepsilon_r = 51.6$; $\rho = 1000$

 kg/m^3

Ambient Temperature: 22.5; Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: ET3DV6 SN1787; ConvF(3.96, 3.96, 3.96); Calibrated: 2011/5/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2011/6/17
- Phantom: ELI 4.0 Front; Type: QD 0VA 002 AA; Serial: TP-1131
- -; SEMCAD X Version 13.4 Build 125

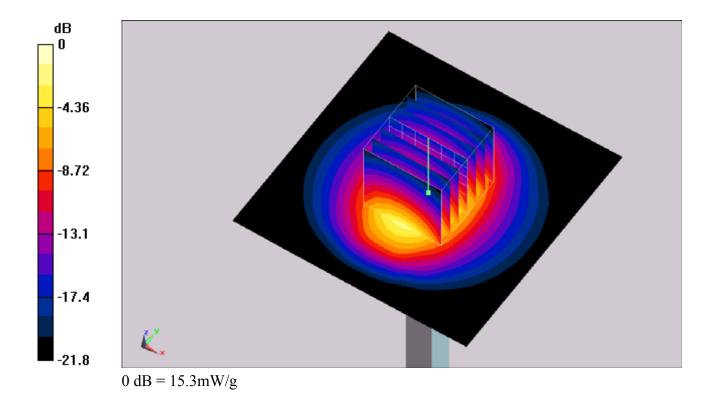
Pin=250mW/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 15.9 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 89.5 V/m; Power Drift = -0.070 dB

Peak SAR (extrapolated) = 34.6 W/kg

SAR(1 g) = 14 mW/g; SAR(10 g) = 6.34 mW/g

Maximum value of SAR (measured) = 15.3 mW/g



System Check_Body_900MHz_111217

DUT: Dipole 900 MHz

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: MSL_900_111217 Medium parameters used: f = 900 MHz; $\sigma = 1.06$ mho/m; $\epsilon_r = 54$; $\rho =$

Date: 2011/12/17

 1000 kg/m^3

Ambient Temperature: 22.3 °C; Liquid Temperature: 21.3 °C

DASY4 Configuration:

- Probe: EX3DV4 SN3792; ConvF(8.91, 8.91, 8.91); Calibrated: 2011/6/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2011/11/22
- Phantom: ELI 4.0 Front; Type: QDOVA001BB; Serial: 1026
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.81 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 51.3 V/m; Power Drift = 0.059 dB

Peak SAR (extrapolated) = 3.98 W/kg

SAR(1 g) = 2.6 mW/g; SAR(10 g) = 1.68 mW/gMaximum value of SAR (measured) = 2.81 mW/g

