

APPENDIX B: SYSTEM VERIFICATION

PCTEST

DUT: Dipole 850 MHz; Type: D850V2; Serial: 1009

Communication System: UID 0, CW; Frequency: 850 MHz; Duty Cycle: 1:1

Medium: 850 Body Medium parameters used:

$f = 850 \text{ MHz}$; $\sigma = 1.008 \text{ S/m}$; $\epsilon_r = 53.842$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 09-09-2020; Ambient Temp: 22.1°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7490; ConvF(10.18, 10.18, 10.18) @ 850 MHz; Calibrated: 12/13/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 12/5/2019

Phantom: Twin-SAM V4.0 SUB; Type: QD 000 P40 CC; Serial: 1402

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

850 MHz System Verification at 23.0 dBm (200 mW)

Area Scan (7x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 3.02 W/kg

SAR(1 g) = 1.98 W/kg

Deviation(1 g) = -1.00%

