

## **APPENDIX A. SAR System Verification Data**

The plots for system verification with largest deviation for each SAR system combination are shown as follows.

Date/Time: 09/02/2015

Test Laboratory: Cerpess Lab

SystemPerformanceCheck-D2450 Body

**DUT: Dipole 2450 MHz D2450V2; Type: SA AAD 245 BB**

Communication System: CW; Frequency: 2450 MHz

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.94$  S/m;  $\epsilon_r = 52.71$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Meas. Ambient Temp (celsius) -22°C; Input power-250mW

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3927; ConvF(7.63, 7.63, 7.63); Calibrated: 2014/5/23;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1379; Calibrated: 2014/5/19
- Phantom: ELI v5.0; Type: QDOVA002AA
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/SystemPerformanceCheck-D2450 Body/Area Scan (5x7x1):**

Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 11.4 W/kg

**Configuration/SystemPerformanceCheck-D2450 Body/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 78.28 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 25.5 W/kg

**SAR(1 g) = 12.3 W/kg; SAR(10 g) = 5.7 W/kg**

Maximum value of SAR (measured) = 14.2 W/kg



0 dB = 14.2 W/kg = 11.52 dBW/kg

## **APPENDIX B. SAR measurement Data**

The SAR plots are shown as follows.

Date/Time: 09/02/2015

Test Laboratory: Cerpass Lab

DUT: lenovo flex 3-1120; Type: RTL8723BE-Lianzhan Ant

**Procedure Name: 802.11b 2437MHz Mid Tablet-Edge 1 Main Antenna**

Communication System Band: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.94$  S/m;  $\epsilon_r = 52.72$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Tissue Temp (celsius) - 21 °C

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3927; ConvF(7.63, 7.63, 7.63); Calibrated: 2014/5/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1379; Calibrated: 2014/5/19
- Phantom: ELI v5.0; Type: QDOVA002AA
- Measurement SW: DASYS2, Version 52.8 (8);

**Configuration/802.11b 2437MHz Mid Tablet-Edge 1 Main Antenna/Area Scan**

**(7x14x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.669 W/kg

**Configuration/802.11b 2437MHz Mid Tablet-Edge 1 Main Antenna/Zoom Scan**

**(7x7x6)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 2.582 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.05 W/kg

**SAR(1 g) = 0.473 W/kg; SAR(10 g) = 0.224 W/kg**

Maximum value of SAR (measured) = 0.718 W/kg



0 dB = 0.718 W/kg = -1.44 dBW/kg

Date/Time: 09/02/2015

Test Laboratory: Cerpass Lab

DUT: lenovo flex 3-1120; Type: RTL8723BE-Jiabang Ant

**Procedure Name: 802.11b 2437MHz Mid Tablet-Edge 1 Main Antenna**

Communication System Band: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.94$  S/m;  $\epsilon_r = 52.72$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Tissue Temp (celsius) - 21 °C

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY5 Configuration:

- Probe: EX3DV4 - SN3927; ConvF(7.63, 7.63, 7.63); Calibrated: 2014/5/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1379; Calibrated: 2014/5/19
- Phantom: ELI v5.0; Type: QDOVA002AA
- Measurement SW: DASYS2, Version 52.8 (8);

**Configuration/802.11b 2437MHz Mid Tablet-Edge 1 Main Antenna/Area Scan**

**(7x14x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.596 W/kg

**Configuration/802.11b 2437MHz Mid Tablet-Edge 1 Main Antenna/Zoom Scan**

**(7x7x6)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 2.748 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.859 W/kg

**SAR(1 g) = 0.409 W/kg; SAR(10 g) = 0.191 W/kg**

Maximum value of SAR (measured) = 0.610 W/kg



0 dB = 0.610 W/kg = -2.15 dBW/kg

## **APPENDIX C. Calibration Data for Probe, Dipole and DAE**

Please refer to attached files.

## **APPENDIX D. Photographs of EUT and Setup**

Please refer to attached files.