

Test Laboratory: BTL Inc.

Date: 2020/3/25

## T03\_802.11b\_CH1\_Back of Keyboard\_0cm\_Ant 1

### DUT: Notebook;

Communication System: UID 0, IEEE 802.11b WiFi 2.4GHz (DSSS, 1Mbps) (0); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.837$  S/m;  $\epsilon_r = 37.627$ ;  $\rho = 1000$  kg/m<sup>3</sup>

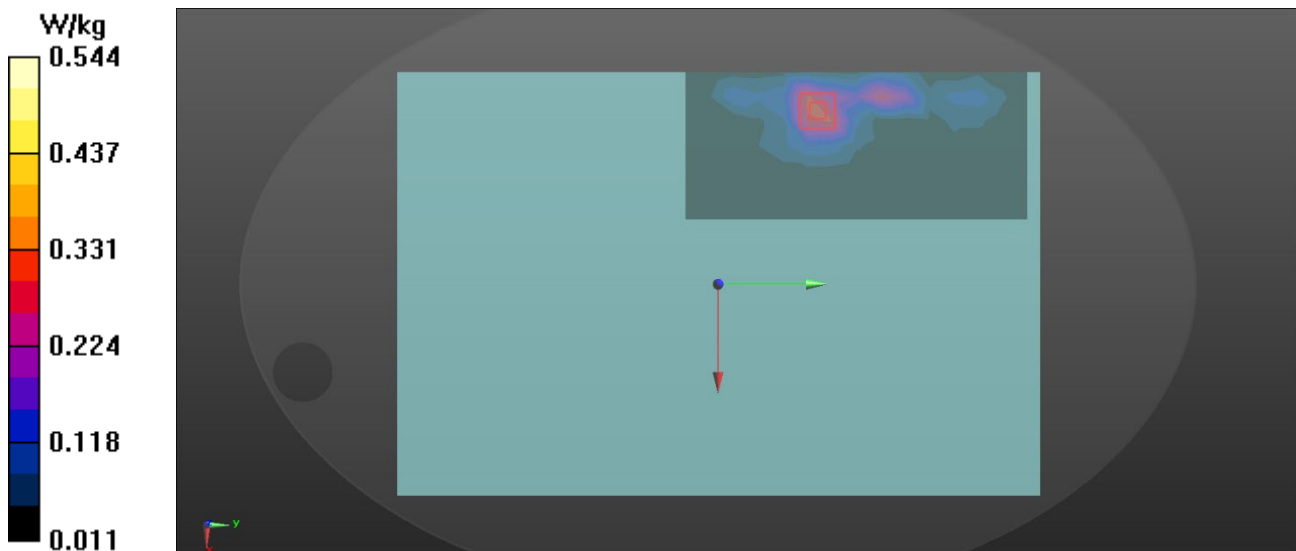
Ambient Temperature: 23.2 °C; Liquid Temperature: 22.2 °C

### DASY Configuration:

- Probe: ES3DV3 - SN3162; ConvF(4.5, 4.5, 4.5) @ 2412 MHz; Calibrated: 2019/4/12
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn420; Calibrated: 2019/6/21
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (9x17x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 0.305 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
Reference Value = 0.4040 V/m; Power Drift = 0.05 dB  
Peak SAR (extrapolated) = 1.01 W/kg  
**SAR(1 g) = 0.456 W/kg; SAR(10 g) = 0.197 W/kg**  
Maximum value of SAR (measured) = 0.544 W/kg



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## T06\_802.11b\_CH6\_Back of Keyboard\_0cm\_Ant 2

### DUT: Notebook;

Communication System: UID 0, IEEE 802.11b WiFi 2.4GHz (DSSS,1Mbps) (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.864$  S/m;  $\epsilon_r = 37.529$ ;  $\rho = 1000$  kg/m<sup>3</sup>

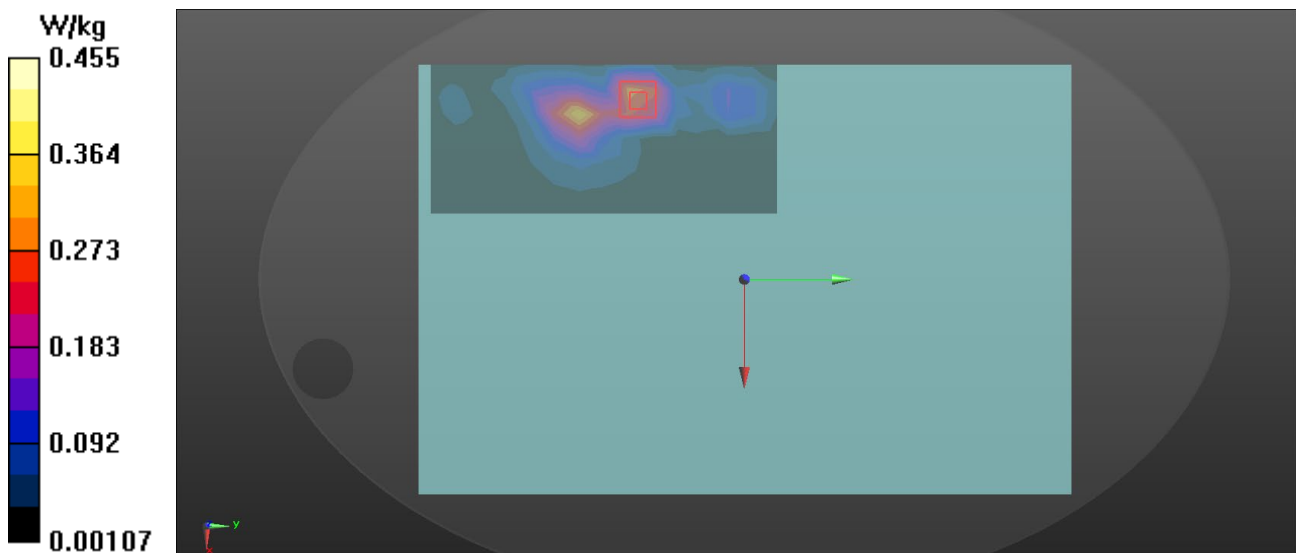
Ambient Temperature: 23.2 °C; Liquid Temperature: 22.2 °C

### DASY Configuration:

- Probe: ES3DV3 - SN3162; ConvF(4.5, 4.5, 4.5) @ 2437 MHz; Calibrated: 2019/4/12
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn420; Calibrated: 2019/6/21
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (9x17x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 0.338 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
Reference Value = 0.7640 V/m; Power Drift = -0.12 dB  
Peak SAR (extrapolated) = 0.806 W/kg  
**SAR(1 g) = 0.408 W/kg; SAR(10 g) = 0.189 W/kg**  
Maximum value of SAR (measured) = 0.455 W/kg



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## T11\_BT\_DH5\_CH78\_Back of keyborad\_0cm\_Ant 1

### DUT: Notebook;

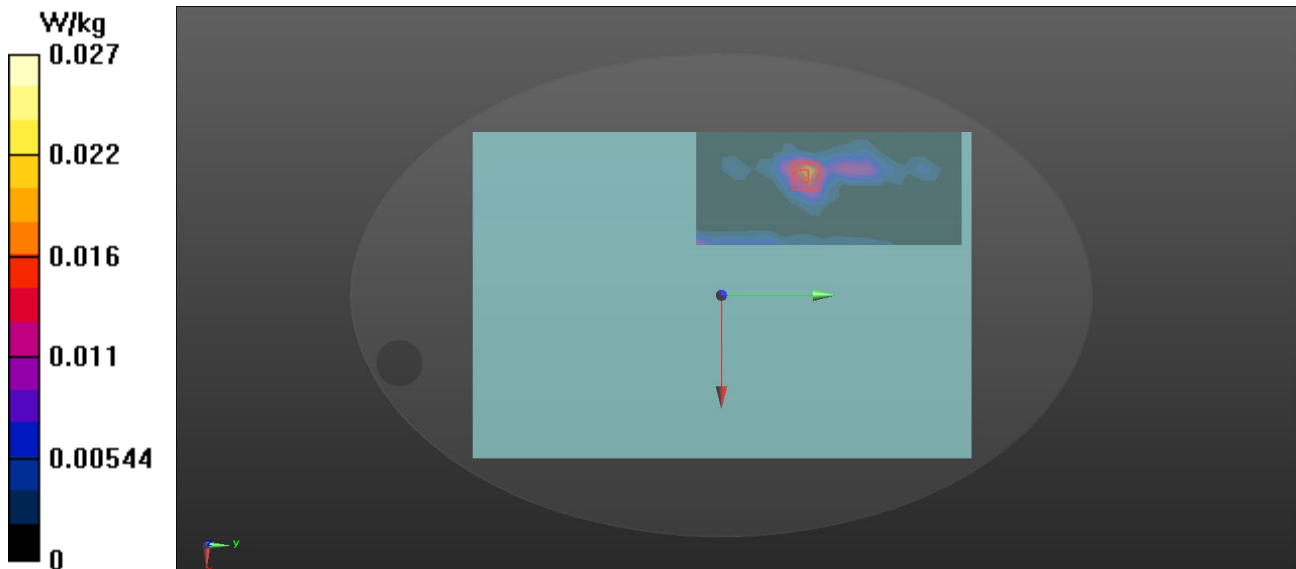
Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2480$  MHz;  $\sigma = 1.913$  S/m;  $\epsilon_r = 37.344$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature: 23.2 °C; Liquid Temperature: 22.2 °C

### DASY Configuration:

- Probe: ES3DV3 - SN3162; ConvF(4.5, 4.5, 4.5) @ 2437 MHz; Calibrated: 2019/4/12
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn420; Calibrated: 2019/6/21
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (9x17x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 0.0193 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
Reference Value = 2.629 V/m; Power Drift = -0.06 dB  
Peak SAR (extrapolated) = 0.0920 W/kg  
**SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.00579 W/kg**  
Maximum value of SAR (measured) = 0.0272 W/kg



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**T14\_802.11a\_CH52\_Back of Keyboard\_0cm\_Ant 1****DUT: Notebook;**

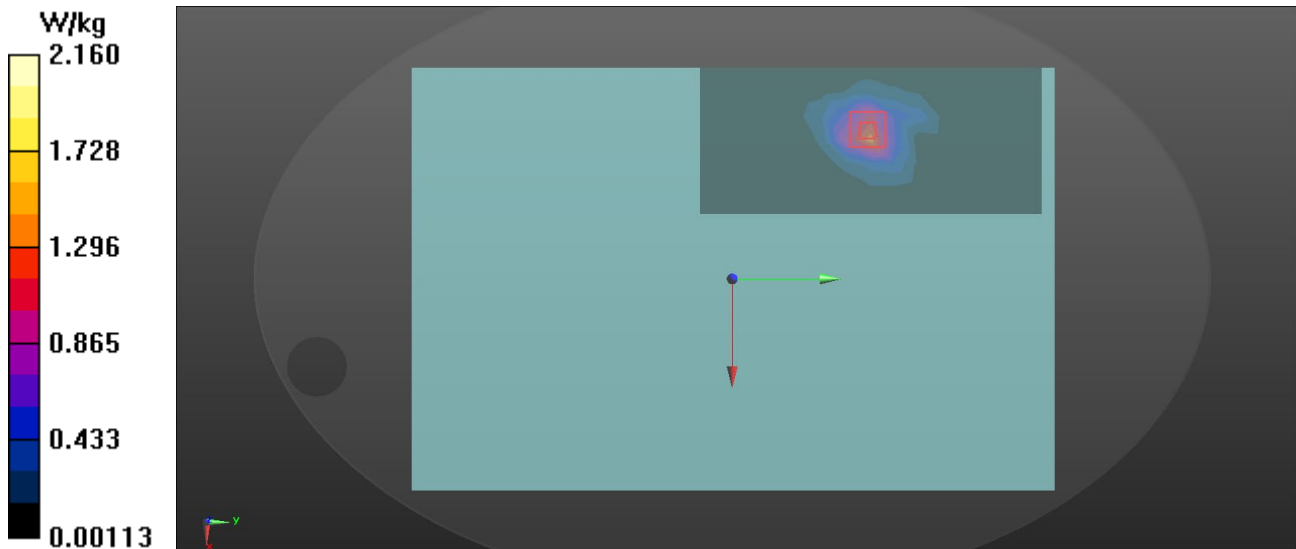
Communication System: UID 0, IEEE 802.11a WiFi 5G(OFDM, 6 Mbps,) (0); Frequency: 5260 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.76$  S/m;  $\epsilon_r = 36.081$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature: 23.2 °C; Liquid Temperature: 22.5 °C

## DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(5.21, 5.21, 5.21) @ 5260 MHz; Calibrated: 2019/9/9
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/10/29
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (11x18x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 1.40 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm  
Reference Value = 0 V/m; Power Drift = 0.00 dB  
Peak SAR (extrapolated) = 4.12 W/kg  
**SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.377 W/kg**  
Maximum value of SAR (measured) = 2.16 W/kg



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**T22\_802.11a\_CH56\_Back of Keyboard\_0cm\_Ant 2****DUT: Notebook;**

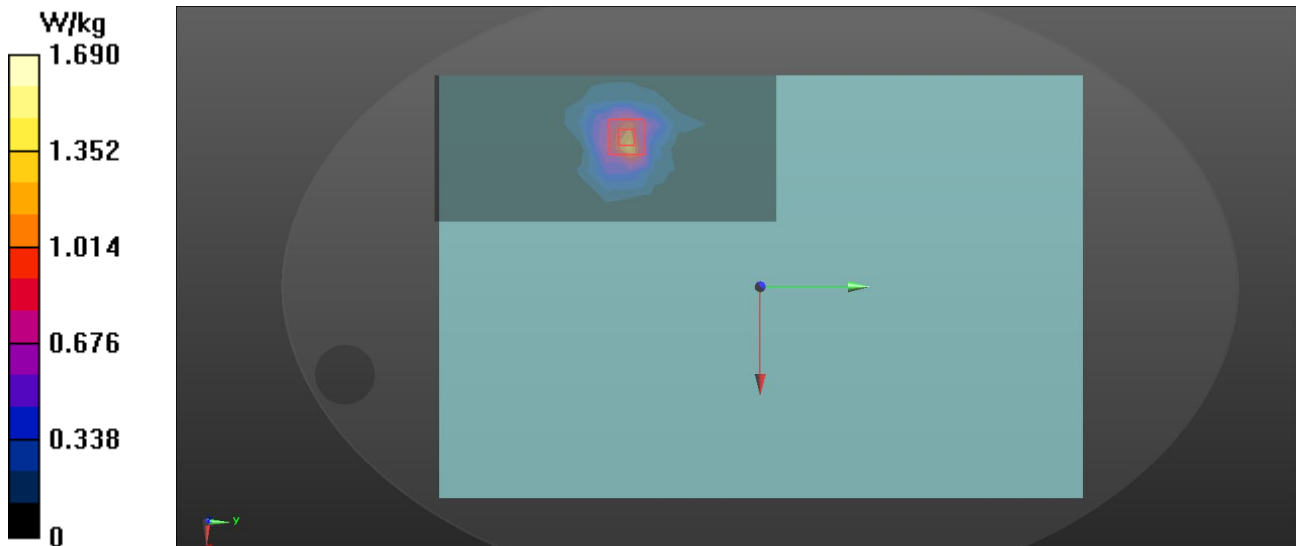
Communication System: UID 0, IEEE 802.11a WiFi 5G(OFDM, 6 Mbps,) (0); Frequency: 5280 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5280$  MHz;  $\sigma = 4.785$  S/m;  $\epsilon_r = 36.008$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature: 23.1 °C; Liquid Temperature: 22.5 °C

## DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(5.21, 5.21, 5.21) @ 5280 MHz; Calibrated: 2019/9/9
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/10/29
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (11x18x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 1.23 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm  
Reference Value = 0 V/m; Power Drift = 0.00 dB  
Peak SAR (extrapolated) = 3.63 W/kg  
**SAR(1 g) = 0.886 W/kg; SAR(10 g) = 0.313 W/kg**  
Maximum value of SAR (measured) = 1.69 W/kg



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**T28\_802.11a\_CH116\_Back of Keyboard\_0cm\_Ant 1****DUT: Notebook;**

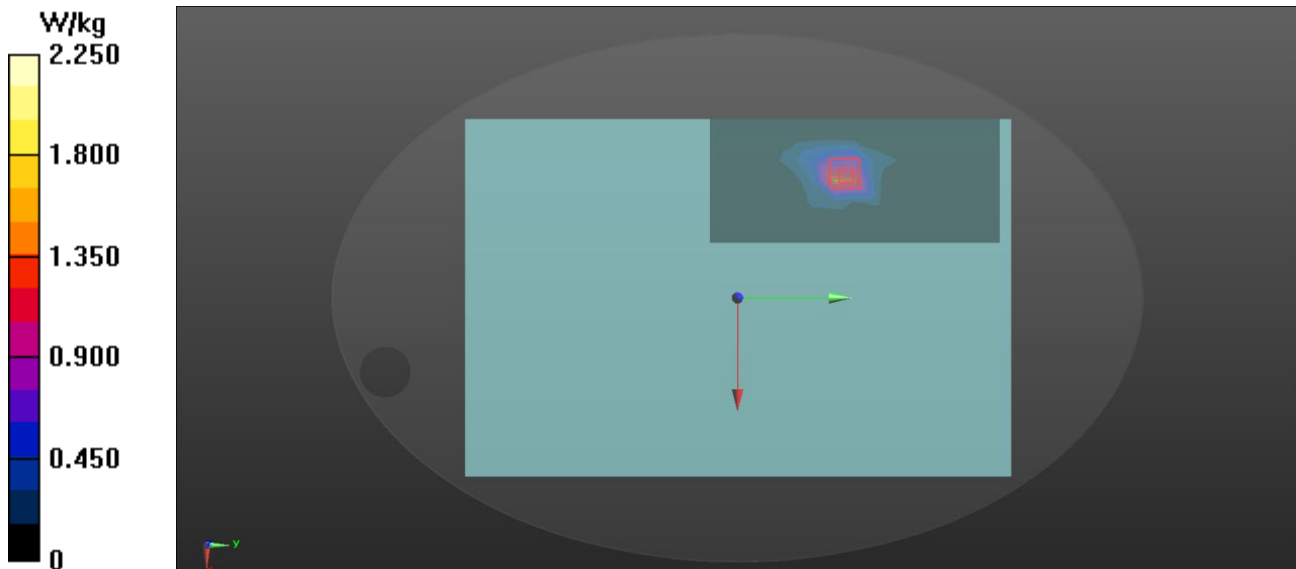
Communication System: UID 0, IEEE 802.11a WiFi 5G(OFDM, 6 Mbps,) (0); Frequency: 5580 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.142$  S/m;  $\epsilon_r = 35.344$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature: 23.2 °C; Liquid Temperature: 22.4 °C

## DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(4.81, 4.81, 4.81) @ 5580 MHz; Calibrated: 2019/9/9
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/10/29
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (11x18x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 1.41 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm  
Reference Value = 0 V/m; Power Drift = 0.00 dB  
Peak SAR (extrapolated) = 4.60 W/kg  
**SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.348 W/kg**  
Maximum value of SAR (measured) = 2.25 W/kg



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## T31\_802.11a\_CH116\_Back of Keyboard\_0cm\_Ant 2

### DUT: Notebook;

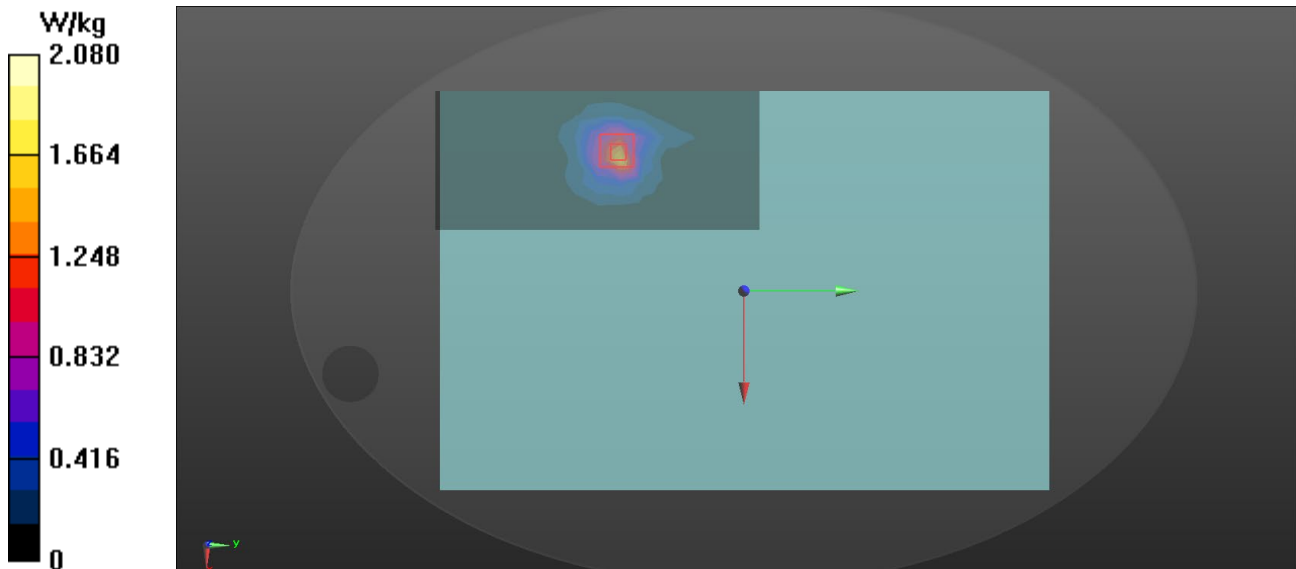
Communication System: UID 0, IEEE 802.11a WiFi 5G(OFDM, 6 Mbps,) (0); Frequency: 5580 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.142$  S/m;  $\epsilon_r = 35.344$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature: 23.2 °C; Liquid Temperature: 22.4 °C

### DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(4.81, 4.81, 4.81) @ 5580 MHz; Calibrated: 2019/9/9
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/10/29
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (11x18x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 1.61 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm  
Reference Value = 0 V/m; Power Drift = 0.00 dB  
Peak SAR (extrapolated) = 4.88 W/kg  
**SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.371 W/kg**  
Maximum value of SAR (measured) = 2.08 W/kg



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## T39\_802.11a\_CH165\_Back of Keyboard\_0cm\_Ant 1

### DUT: Notebook;

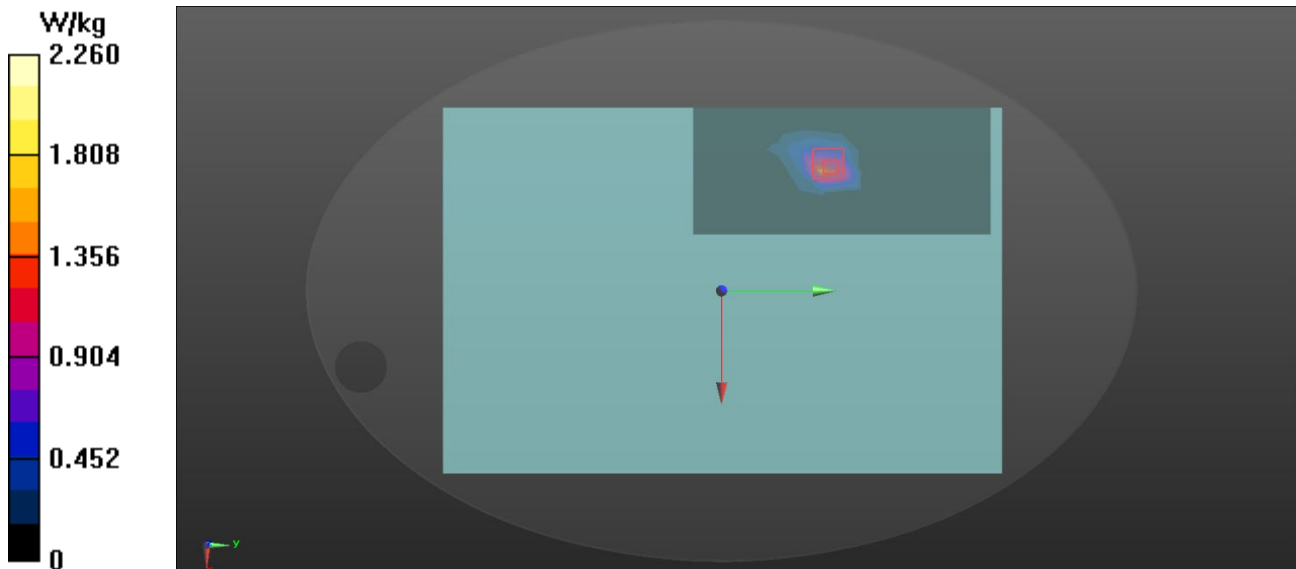
Communication System: UID 0, IEEE 802.11a WiFi 5G(OFDM, 6 Mbps,) (0); Frequency: 5825 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 5825 \text{ MHz}$ ;  $\sigma = 5.429 \text{ S/m}$ ;  $\epsilon_r = 34.751$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature:  $23.3 \text{ }^\circ\text{C}$ ; Liquid Temperature:  $22.1 \text{ }^\circ\text{C}$

### DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(4.75, 4.75, 4.75) @ 5825 MHz; Calibrated: 2019/9/9
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/10/29
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (11x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$   
Maximum value of SAR (measured) =  $1.47 \text{ W/kg}$

**Zoom Scan (8x8x6)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$   
Reference Value =  $0 \text{ V/m}$ ; Power Drift =  $0.00 \text{ dB}$   
Peak SAR (extrapolated) =  $4.80 \text{ W/kg}$   
**SAR(1 g) =  $1.04 \text{ W/kg}$ ; SAR(10 g) =  $0.306 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $2.26 \text{ W/kg}$





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## T43\_802.11a\_CH149\_Back of Keyboard\_0cm\_Ant 2

### DUT: Notebook;

Communication System: UID 0, IEEE 802.11a WiFi 5G(OFDM, 6 Mbps,) (0); Frequency: 5745 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.335 \text{ S/m}$ ;  $\epsilon_r = 34.884$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature:  $23.3 \text{ }^\circ\text{C}$ ; Liquid Temperature:  $22.1 \text{ }^\circ\text{C}$

### DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(4.75, 4.75, 4.75) @ 5745 MHz; Calibrated: 2019/9/9
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/10/29
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (11x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$   
Maximum value of SAR (measured) =  $1.44 \text{ W/kg}$

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$   
Reference Value =  $0 \text{ V/m}$ ; Power Drift =  $0.00 \text{ dB}$   
Peak SAR (extrapolated) =  $4.87 \text{ W/kg}$   
**SAR(1 g) =  $0.974 \text{ W/kg}$ ; SAR(10 g) =  $0.323 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $1.83 \text{ W/kg}$

