

Test Laboratory: BTL.Inc

Date: 2021/6/24

## W03\_802.11b\_CH6\_Back of Keyboard\_0cm\_Ant Main

### DUT: Notebook;

Communication System: UID 10061 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps);

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.78$  S/m;  $\epsilon_r = 39.752$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.2 °C

### DASY Configuration:

- Probe: EX3DV4 - SN3974; ConvF(7.98, 7.98, 7.98) @ 2442 MHz; Calibrated: 2020/12/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1423; Calibrated: 2020/12/11
- Phantom: ELI V5.0; Type: QD OVA 001 BB; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (10x15x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 1.24 W/kg

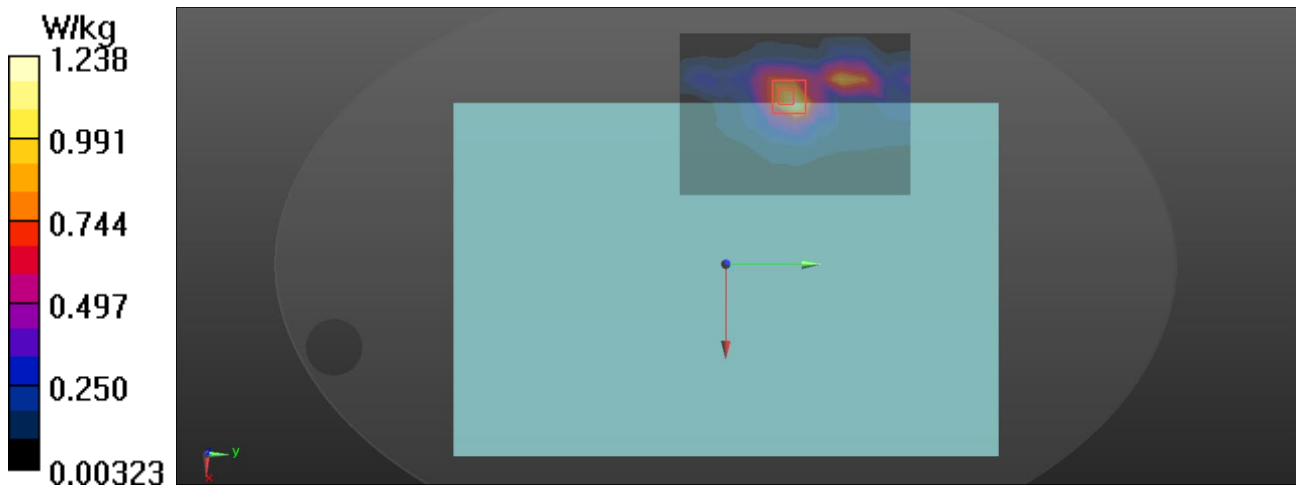
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.91 W/kg

**SAR(1 g) = 0.796 W/kg; SAR(10 g) = 0.365 W/kg**

Maximum value of SAR (measured) = 1.42 W/kg



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Date: 2021/6/24

## W08\_802.11b\_CH11\_Back of Keyboard\_0cm\_Ant Aux

### DUT: Notebook;

Communication System: UID 10061 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps);

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.803$  S/m;  $\epsilon_r = 39.675$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.2 °C

### DASY Configuration:

- Probe: EX3DV4 - SN3974; ConvF(7.98, 7.98, 7.98) @ 2462 MHz; Calibrated: 2020/12/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1423; Calibrated: 2020/12/11
- Phantom: ELI V5.0; Type: QD OVA 001 BB; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (10x14x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 1.18 W/kg

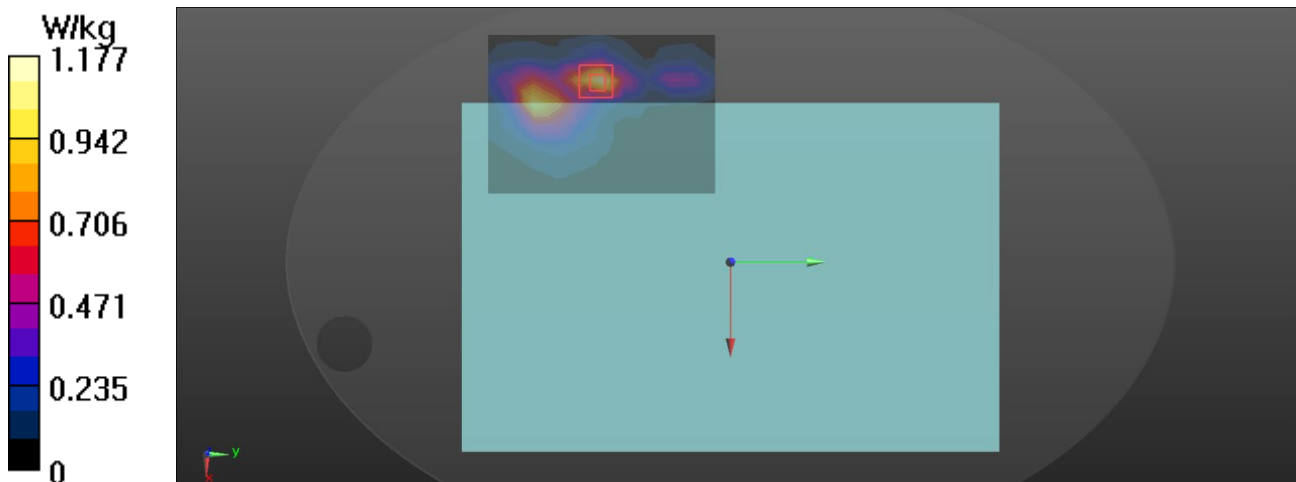
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.66 W/kg

**SAR(1 g) = 0.773 W/kg; SAR(10 g) = 0.353 W/kg**

Maximum value of SAR (measured) = 1.20 W/kg



Test Laboratory: BTL.Inc

Date: 2021/6/24

### B03\_BT DH5\_CH39\_Back of Keyboard\_0cm\_Ant Main

#### DUT: Notebook;

Communication System: UID 0, Bluetooth (0);

Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2441$  MHz;  $\sigma = 1.779$  S/m;  $\epsilon_r = 39.757$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.2 °C

#### DASY Configuration:

- Probe: EX3DV4 - SN3974; ConvF(7.98, 7.98, 7.98) @ 2441 MHz; Calibrated: 2020/12/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1423; Calibrated: 2020/12/11
- Phantom: ELI V5.0; Type: QD OVA 001 BB; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (10x15x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.044 W/kg

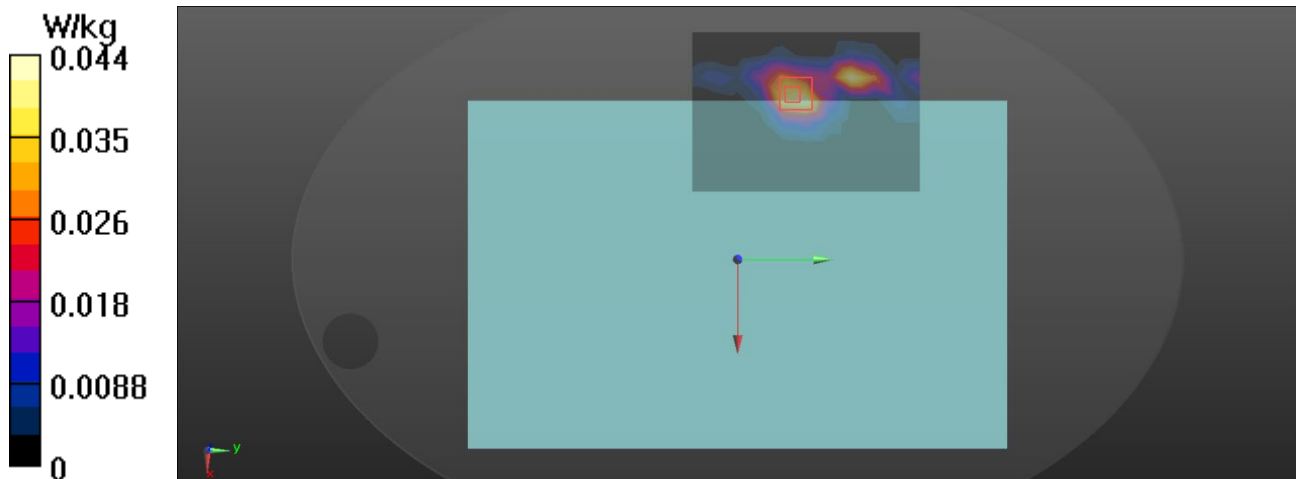
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 0 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 0.075 W/kg

**SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.013 W/kg**

Maximum value of SAR (measured) = 0.0561 W/kg



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**W18\_802.11a\_CH60\_Back of Keyboard\_0cm\_Ant Main**

**DUT: Notebook;**

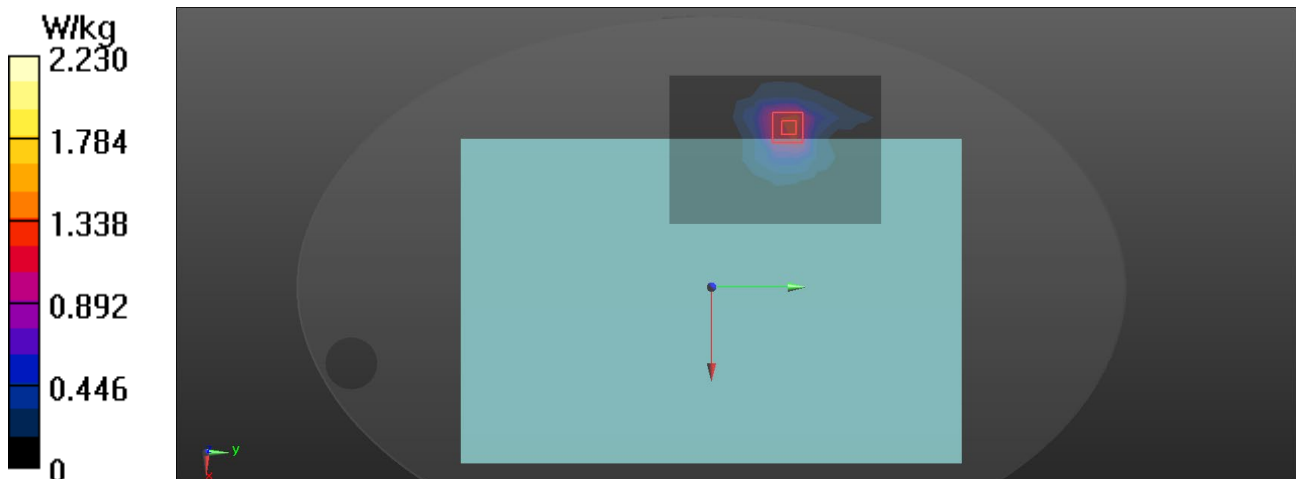
Communication System: UID 0, IEEE 802.11a WiFi 5G(OFDM, 6 Mbps,) (0);  
Frequency: 5300 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 5300$  MHz;  $\sigma = 4.892$  S/m;  $\epsilon_r = 35.537$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature: 23.4 °C; Liquid Temperature: 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN3974; ConvF(5.55, 5.55, 5.55) @ 5300 MHz; Calibrated: 2020/12/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1423; Calibrated: 2020/12/11
- Phantom: ELI V5.0; Type: QD OVA 001 BB; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (12x17x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 1.33 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) = 3.79 W/kg  
**SAR(1 g) = 0.983 W/kg; SAR(10 g) = 0.340 W/kg**  
Maximum value of SAR (measured) = 2.23 W/kg



Test Laboratory: BTL.Inc

Date: 2021/6/22

**W24\_802.11a\_CH56\_Back of Keyboard\_0cm\_Ant Aux****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;  $\sigma = 4.867$  S/m;  $\epsilon_r = 35.586$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.5 °C

## DASY Configuration:

- Probe: EX3DV4 - SN3974; ConvF(5.55, 5.55, 5.55) @ 5280 MHz; Calibrated: 2020/12/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1423; Calibrated: 2020/12/11
- Phantom: ELI V5.0; Type: QD OVA 001 BB; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (12x17x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 1.52 W/kg

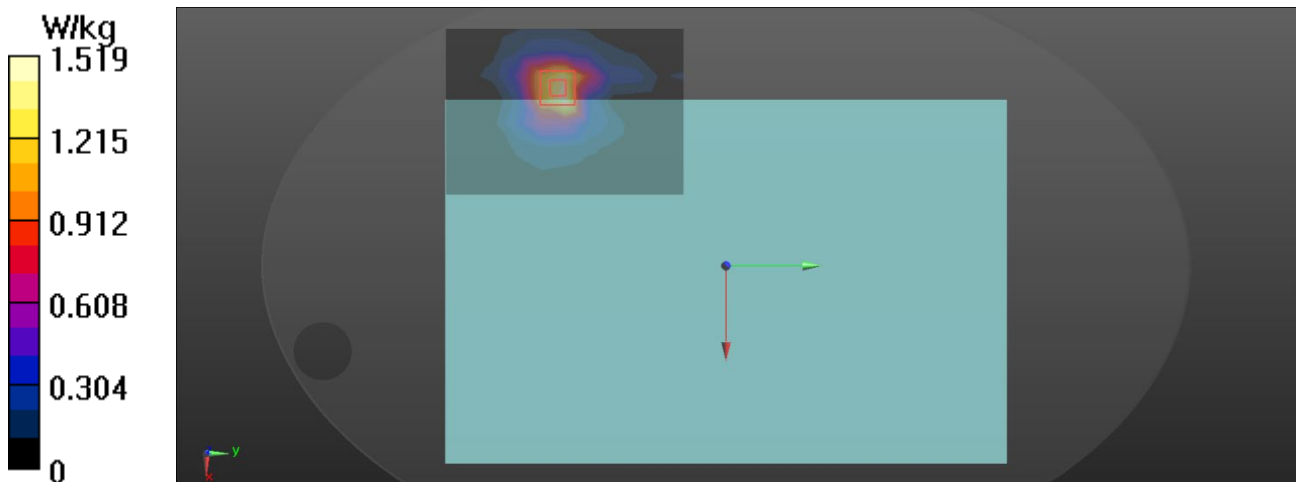
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 3.88 W/kg

**SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.359 W/kg**

Maximum value of SAR (measured) = 2.33 W/kg



Test Laboratory: BTL.Inc

Date: 2021/6/22

## W27\_802.11ac VHT80\_CH122\_Back of Keyboard\_0cm\_Ant Main

### DUT: Notebook;

Communication System: UID 10626 - AAB, IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle);  
Frequency: 5610 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5610$  MHz;  $\sigma = 5.26$  S/m;  $\epsilon_r = 34.759$ ;  $\rho = 1000$  kg/m<sup>3</sup>

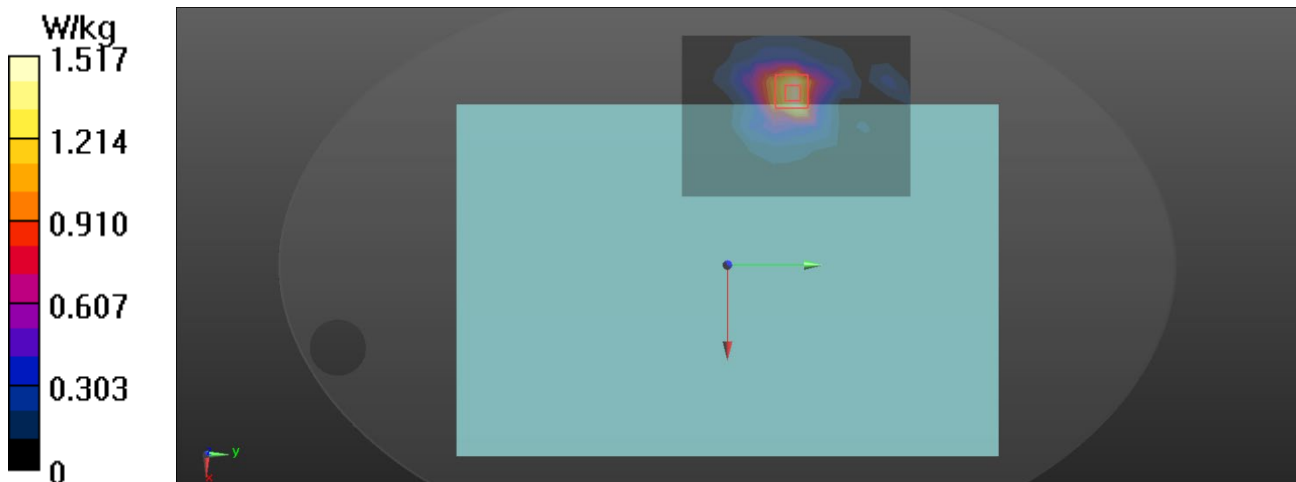
Ambient Temperature: 23.4 °C; Liquid Temperature: 22.5 °C

### DASY Configuration:

- Probe: EX3DV4 - SN3974; ConvF(5.1, 5.1, 5.1) @ 5530 MHz; Calibrated: 2020/12/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1423; Calibrated: 2020/12/11
- Phantom: ELI V5.0; Type: QD OVA 001 BB; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (12x17x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 1.52 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) = 4.18 W/kg  
**SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.352 W/kg**  
Maximum value of SAR (measured) = 2.41 W/kg



Test Laboratory: BTL.Inc

Date: 2021/6/22

**W32\_802.11ac VHT80\_CH122\_Back of Keyboard\_0cm\_Ant Aux**

**DUT: Notebook;**

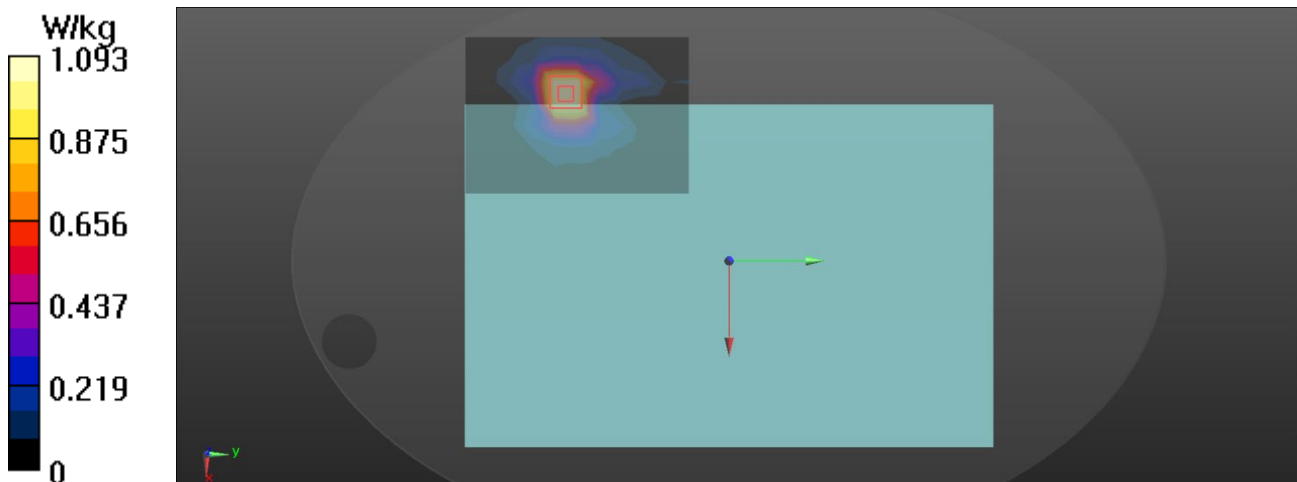
Communication System: UID 10626 - AAB, IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle);  
Frequency: 5610 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 5610$  MHz;  $\sigma = 5.26$  S/m;  $\epsilon_r = 34.759$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature: 23.4 °C; Liquid Temperature: 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN3974; ConvF(4.94, 4.94, 4.94) @ 5610 MHz; Calibrated: 2020/12/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 23.0
- Electronics: DAE4 Sn1423; Calibrated: 2020/12/11
- Phantom: ELI V5.0; Type: QD OVA 001 BB; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (12x17x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (measured) = 1.09 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm  
Reference Value = 0 V/m; Power Drift = 0.05 dB  
Peak SAR (extrapolated) = 3.50 W/kg  
**SAR(1 g) = 0.843 W/kg; SAR(10 g) = 0.290 W/kg**  
Maximum value of SAR (measured) = 1.96 W/kg



Test Laboratory: BTL.Inc

Date: 2021/6/22

## W38\_802.11n HT40\_CH159\_Back of Keyboard\_0cm\_Ant Main

### DUT: Notebook;

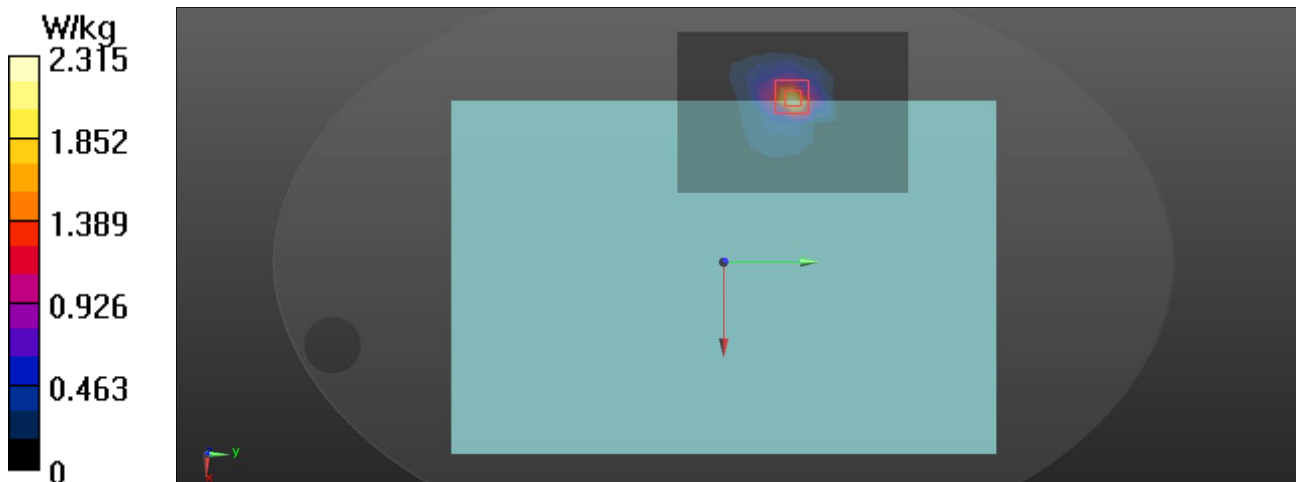
Communication System: UID 10599 - AAB, IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle);  
Frequency: 5795 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 5795$  MHz;  $\sigma = 5.491$  S/m;  $\epsilon_r = 34.325$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature: 23.4 °C; Liquid Temperature: 22.5 °C

### DASY Configuration:

- Probe: EX3DV4 - SN3974; ConvF(5.07, 5.07, 5.07) @ 5795 MHz; Calibrated: 2020/12/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1423; Calibrated: 2020/12/11
- Phantom: ELI V5.0; Type: QD OVA 001 BB; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (12x17x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 2.32 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) = 4.25 W/kg  
**SAR(1 g) = 0.962 W/kg; SAR(10 g) = 0.328 W/kg**  
Maximum value of SAR (measured) = 2.23 W/kg





Test Laboratory: BTL.Inc

Date: 2021/6/22

## W42\_802.11n HT40\_CH151\_Back of Keyboard\_0cm\_Ant Aux

### DUT: Notebook;

Communication System: UID 10599 - AAB, IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle);  
Frequency: 5755 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5755$  MHz;  $\sigma = 5.445$  S/m;  $\epsilon_r = 34.419$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.5 °C

### DASY Configuration:

- Probe: EX3DV4 - SN3974; ConvF(5.07, 5.07, 5.07) @ 5755 MHz; Calibrated: 2020/12/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1423; Calibrated: 2020/12/11
- Phantom: ELI V5.0; Type: QD OVA 001 BB; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (12x17x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 2.48 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) = 4.37 W/kg  
**SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.349 W/kg**  
Maximum value of SAR (measured) = 2.48 W/kg

