

Test Laboratory: BTL Inc.

Date: 2021/3/17

## W02\_802.11b\_CH6\_Back of Keyboard\_0cm\_Ant A

### 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;  $\sigma = 1.851$  S/m;  $\epsilon_r = 38.214$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

### DASY Configuration:

- Probe: ES3DV3 - SN3162; ConvF(4.54, 4.54, 4.54) @ 2437 MHz; Calibrated: 2020/5/9
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (13x13x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.158 W/kg

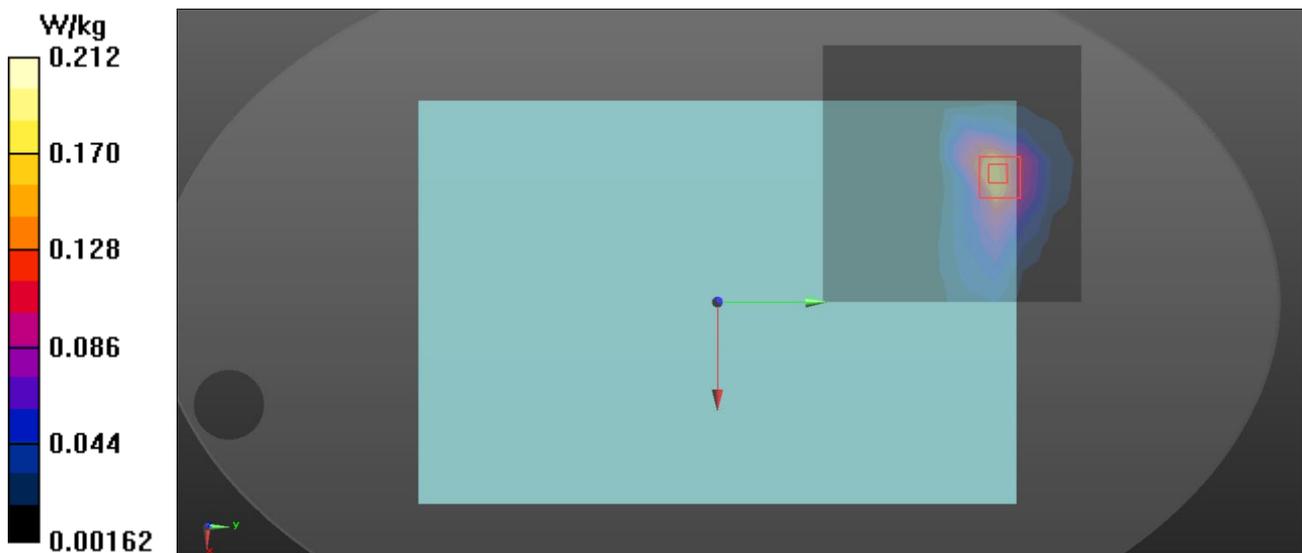
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 0 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.303 W/kg

**SAR(1 g) = 0.161 W/kg; SAR(10 g) = 0.080 W/kg**

Maximum value of SAR (measured) = 0.212 W/kg



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## W08\_802.11b\_CH6\_Back of Keyboard\_0cm\_Ant B

### 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;  $\sigma = 1.851$  S/m;  $\epsilon_r = 38.214$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

### DASY Configuration:

- Probe: ES3DV3 - SN3162; ConvF(4.54, 4.54, 4.54) @ 2437 MHz; Calibrated: 2020/5/9
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (13x13x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.215 W/kg

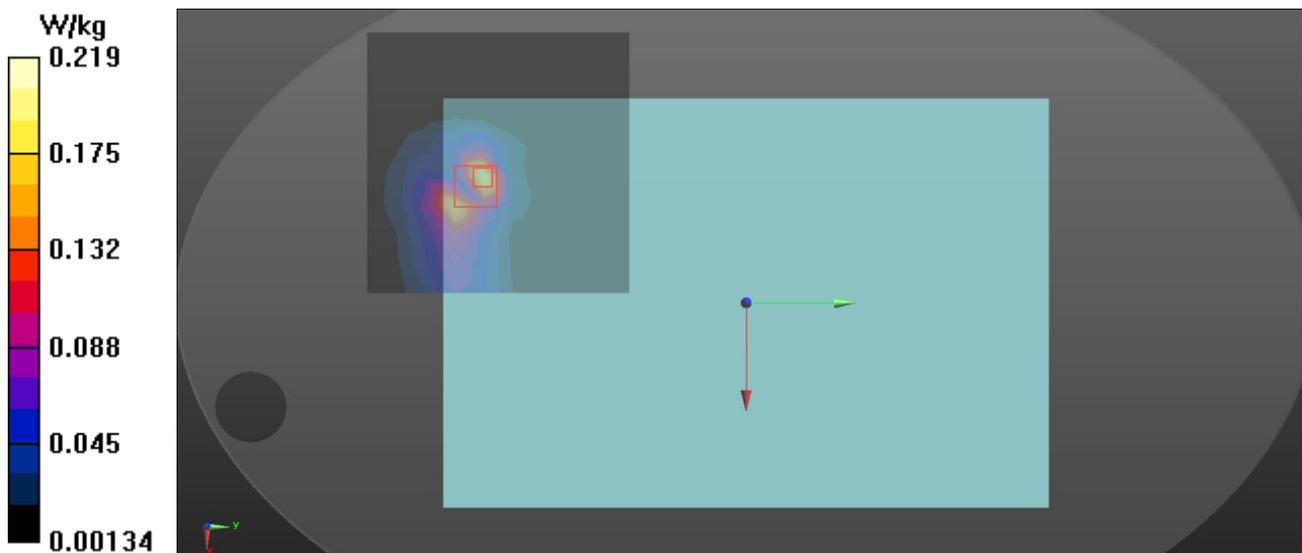
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 0.1550 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.351 W/kg

**SAR(1 g) = 0.160 W/kg; SAR(10 g) = 0.074 W/kg**

Maximum value of SAR (measured) = 0.219 W/kg



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**B03\_BT DH5\_CH0\_Back of Keyboard\_0cm\_Ant A**

**DUT: Notebook;**

Communication System: UID 0, Bluetooth (0);

Frequency: 2402 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2402$  MHz;  $\sigma = 1.762$  S/m;  $\epsilon_r = 38.628$ ;  $\rho = 1000$  kg/m<sup>3</sup>

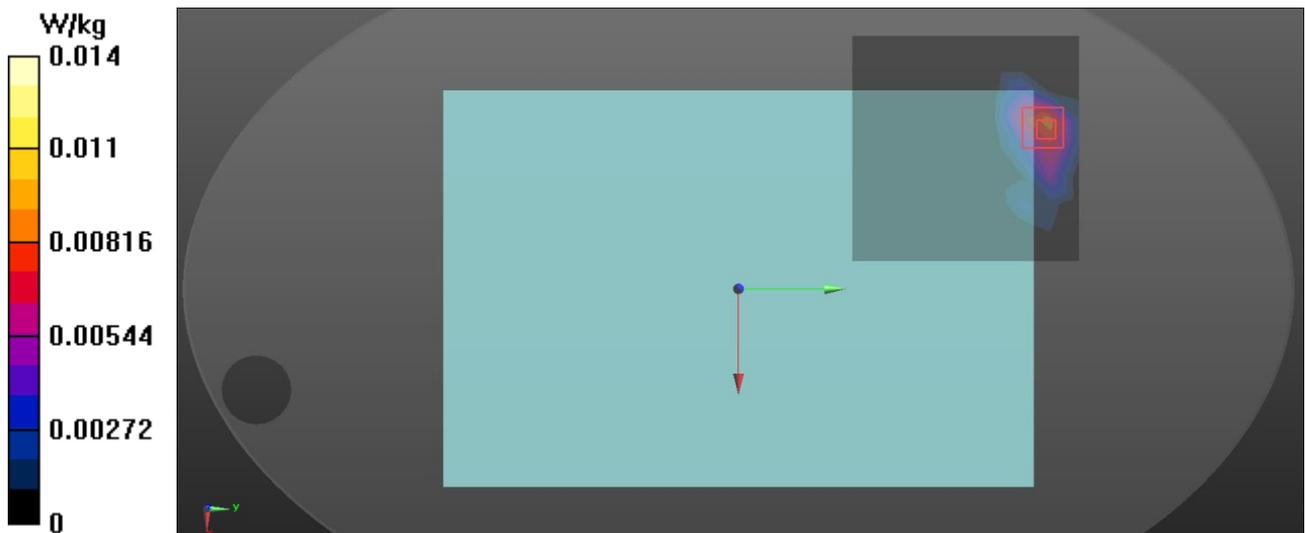
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.2 °C

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(7.56, 7.56, 7.56) @ 2402 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn420; Calibrated: 2020/12/9
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (11x11x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.00898 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 0 V/m; Power Drift = 0.00 dB  
Peak SAR (extrapolated) = 0.0430 W/kg  
**SAR(1 g) = 0.009 W/kg; SAR(10 g) = 0.003 W/kg**  
Maximum value of SAR (measured) = 0.0136 W/kg



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## W19\_802.11a\_CH52\_Back of Screen\_2.5cm\_Ant A

### DUT: Notebook;

Communication System: UID 0, WI-FI(U-NII-2A) (0);

Frequency: 5260 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.672$  S/m;  $\epsilon_r = 36.117$ ;  $\rho = 1000$  kg/m<sup>3</sup>

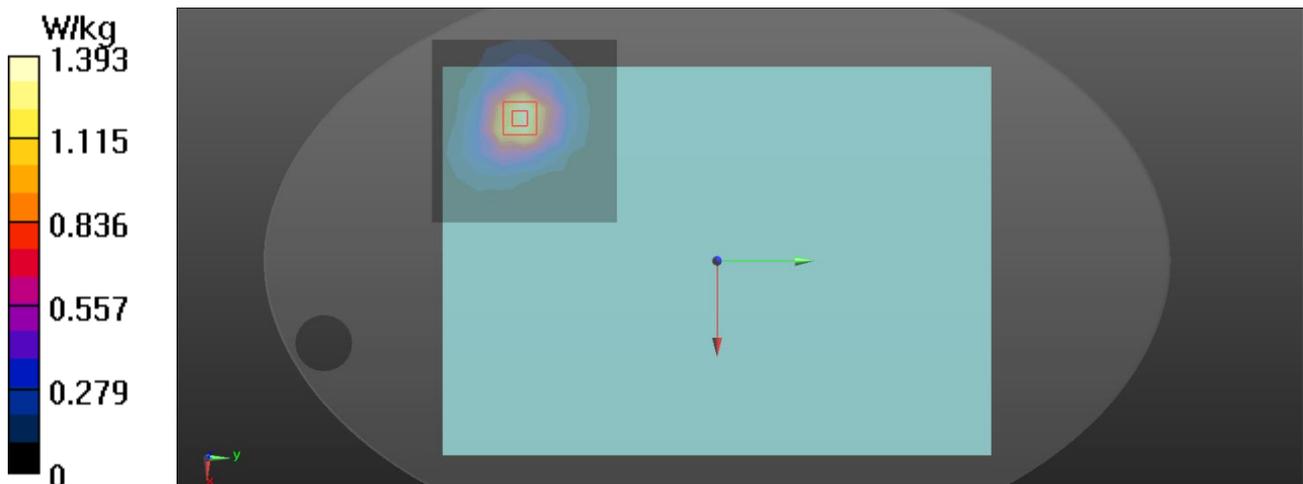
Ambient Temperature: 23.2 °C; Liquid Temperature: 22.3 °C

### DASY Configuration:

- Probe: EX3DV4 - SN3974; ConvF(5.55, 5.55, 5.55) @ 5260 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\_Left; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (14x14x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 1.39 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) = 2.59 W/kg  
**SAR(1 g) = 0.732 W/kg; SAR(10 g) = 0.313 W/kg**  
Maximum value of SAR (measured) = 1.58 W/kg



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**W26\_802.11a\_CH60\_Back of Keyboard\_0cm\_Ant B****DUT: Notebook;**

Communication System: UID 0, WI-FI(U-NII-2A) (0);

Frequency: 5300 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5300$  MHz;  $\sigma = 4.732$  S/m;  $\epsilon_r = 35.997$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.3 °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\_Left; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (14x14x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 2.18 W/kg

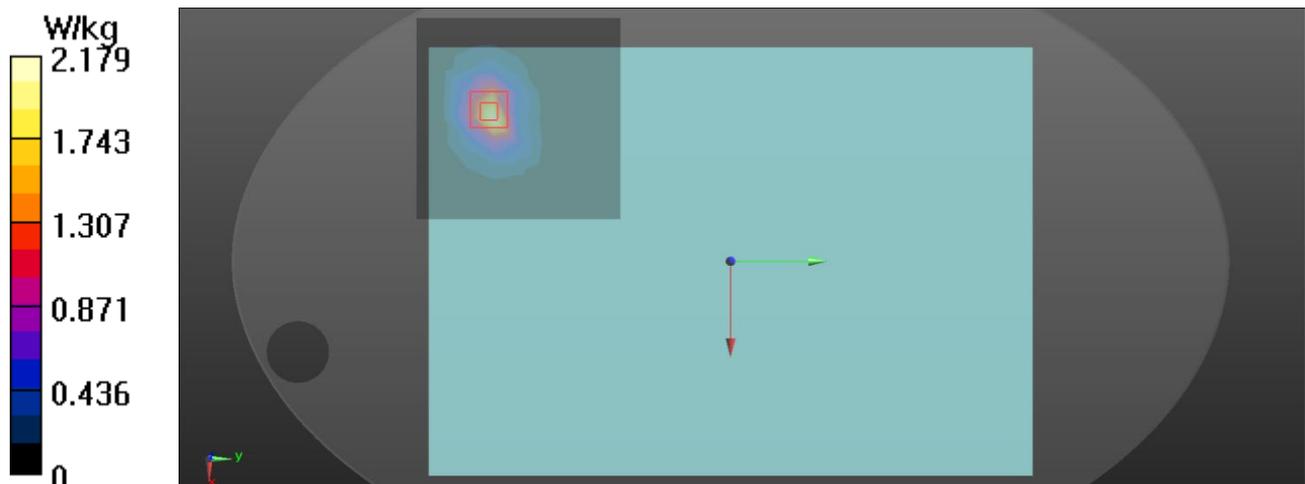
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

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

Peak SAR (extrapolated) = 4.17 W/kg

**SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.387 W/kg**

Maximum value of SAR (measured) = 2.48 W/kg



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**W32\_802.11n HT40\_CH126\_Back of Screen\_2.5cm\_Ant A**

**DUT: Notebook;**

Communication System: UID 0, WI-FI(U-NII-2C) (0);

Frequency: 5630 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5630$  MHz;  $\sigma = 5.119$  S/m;  $\epsilon_r = 35.151$ ;  $\rho = 1000$  kg/m<sup>3</sup>

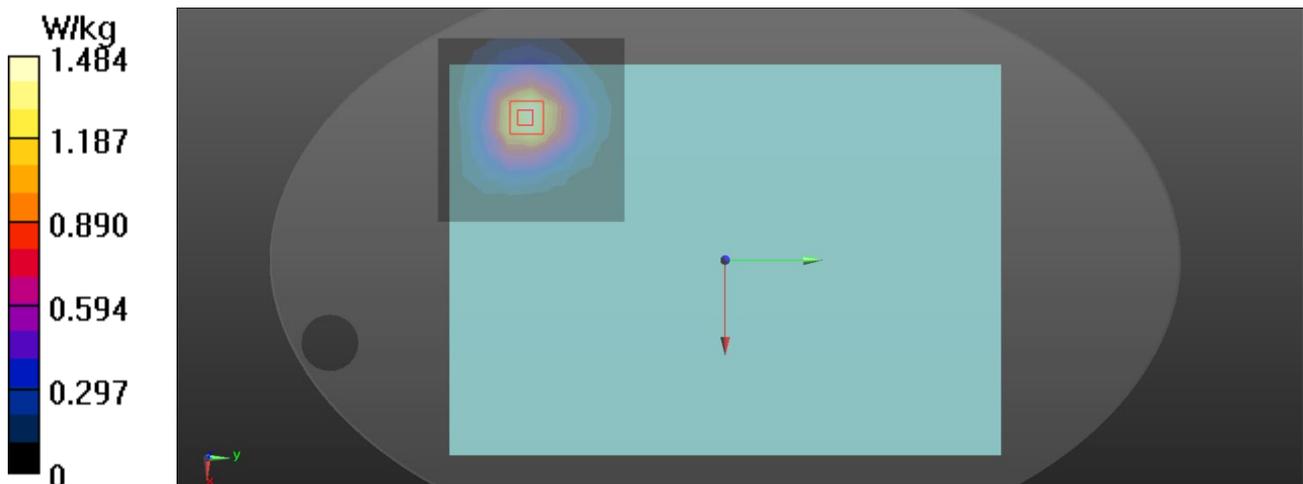
Ambient Temperature: 23.2 °C; Liquid Temperature: 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3974; ConvF(4.94, 4.94, 4.94) @ 5630 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\_Left; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (14x14x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 1.48 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) = 2.66 W/kg  
**SAR(1 g) = 0.743 W/kg; SAR(10 g) = 0.313 W/kg**  
Maximum value of SAR (measured) = 1.63 W/kg



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## W39\_802.11n HT40\_CH110\_Back of Keyboard\_0cm\_Ant B

### DUT: Notebook;

Communication System: UID 0, WI-FI(U-NII-2C) (0);

Frequency: 5550 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5550$  MHz;  $\sigma = 5.022$  S/m;  $\epsilon_r = 35.347$ ;  $\rho = 1000$  kg/m<sup>3</sup>

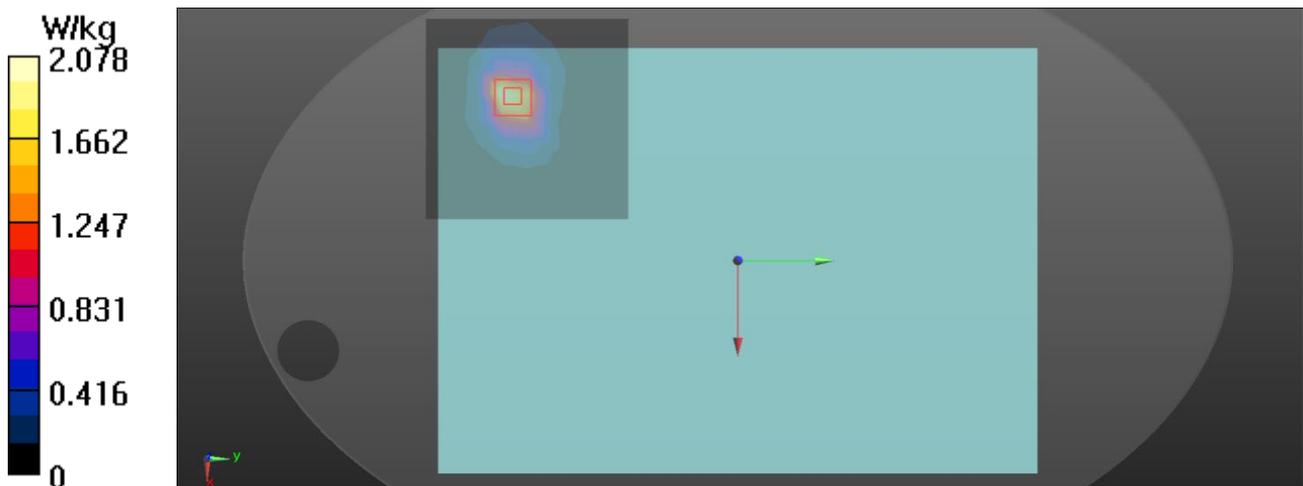
Ambient Temperature: 23.2 °C; Liquid Temperature: 22.3 °C

### DASY Configuration:

- Probe: EX3DV4 - SN3974; ConvF(5.1, 5.1, 5.1) @ 5550 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\_Left; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (14x14x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 2.08 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) = 1.13 W/kg; SAR(10 g) = 0.393 W/kg**  
Maximum value of SAR (measured) = 2.64 W/kg



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## W47\_802.11n HT40\_CH159\_Back of Keyboard\_0cm\_Ant A

### DUT: Mobile Phone;

Communication System: UID 0, WI-FI(U-NII-3) (0);

Frequency: 5795 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5795$  MHz;  $\sigma = 5.373$  S/m;  $\epsilon_r = 34.745$ ;  $\rho = 1000$  kg/m<sup>3</sup> Ambient

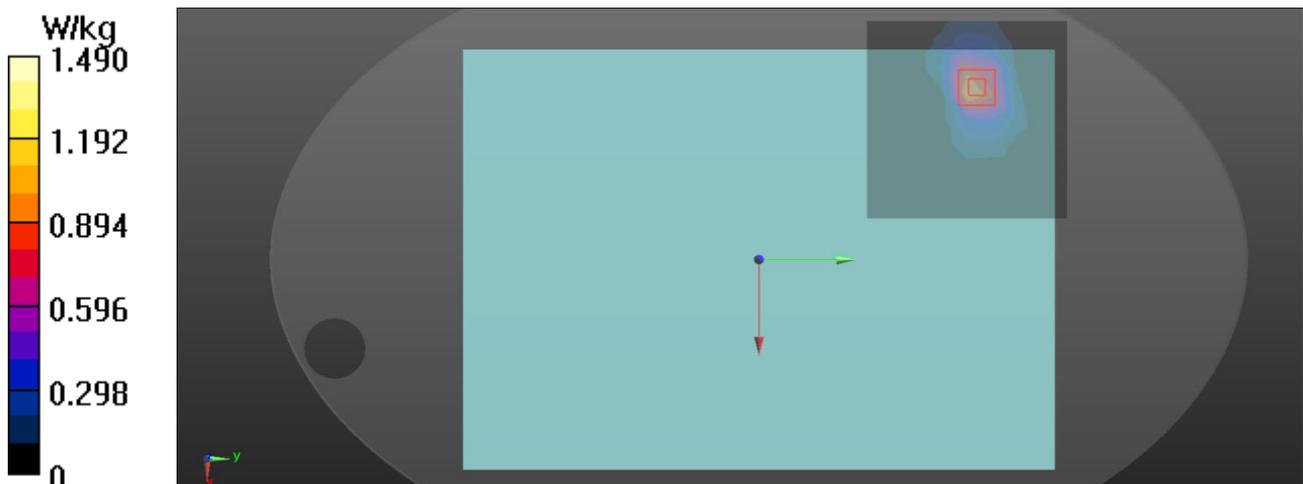
Temperature: 23.2 °C; Liquid Temperature: 22.3 °C

### 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),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1423; Calibrated: 2020/12/11
- Phantom: ELI v5.0\_Left; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (14x14x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 1.05 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) = 2.71 W/kg  
**SAR(1 g) = 0.617 W/kg; SAR(10 g) = 0.222 W/kg**  
Maximum value of SAR (measured) = 1.49 W/kg



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**W51\_802.11n HT40\_CH151\_Back of Keyboard\_0cm\_Ant B**

**DUT: Notebook;**

Communication System: UID 0, WI-FI(U-NII-3) (0);

Frequency: 5755 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5755$  MHz;  $\sigma = 5.291$  S/m;  $\epsilon_r = 34.853$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.3 °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\_Left; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (14x14x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.913 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) = 2.43 W/kg

**SAR(1 g) = 0.450 W/kg; SAR(10 g) = 0.164 W/kg**

Maximum value of SAR (measured) = 1.01 W/kg

