

Test Laboratory: BTL Inc. Date: 2019/7/5

T03_802.11b_CH1_Back of Keyboard_0cm_Ant A

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: $f = 2412 \text{ MHz}$; $\sigma = 1.99 \text{ S/m}$; $\epsilon_r = 52.149$; $\rho = 1000 \text{ kg/m}^3$

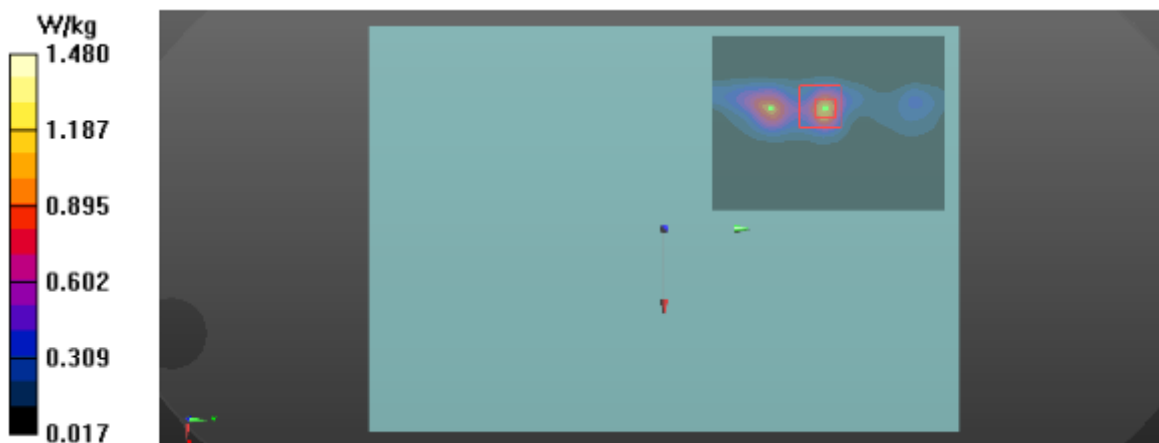
Ambient Temperature : $23.2 \text{ }^\circ\text{C}$; Liquid Temperature : $22.1 \text{ }^\circ\text{C}$

DASY Configuration:

- Probe: EX3DV4 - SN3685; ConvF(6.81, 6.81, 6.81) @ 2412 MHz; Calibrated: 2019/3/25
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/5/25
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (8x11x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$
Maximum value of SAR (interpolated) = 1.12 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 2.538 V/m ; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 3.24 W/kg
SAR(1 g) = 1.13 W/kg ; SAR(10 g) = 0.408 W/kg
Maximum value of SAR (measured) = 1.48 W/kg



Test Laboratory: BTL Inc. Date: 2019/7/5

T06_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; $\sigma = 2.021$ S/m; $\epsilon_r = 52.064$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY Configuration:

- Probe: EX3DV4 - SN3685; ConvF(6.81, 6.81, 6.81) @ 2437 MHz; Calibrated: 2019/3/25
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/5/25
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (8x11x1): Interpolated grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (interpolated) = 1.40 W/kg

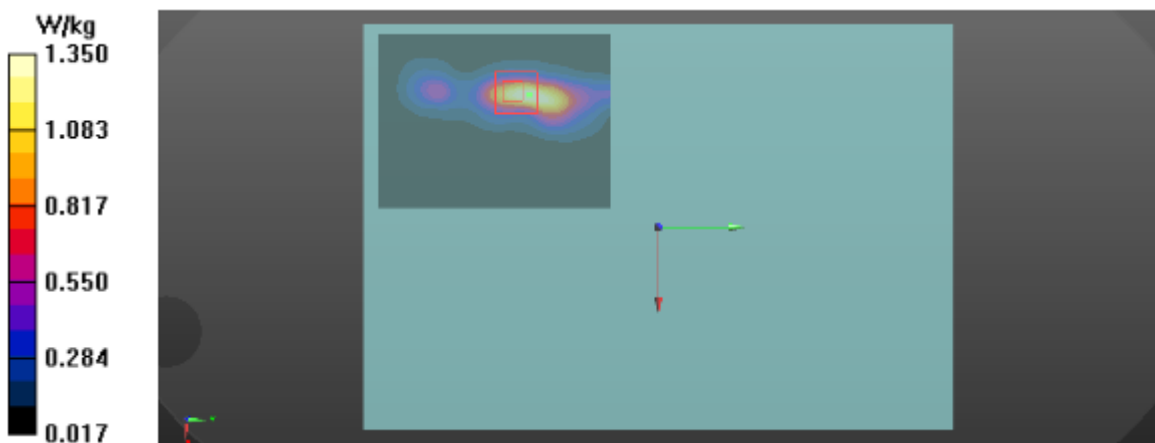
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 2.637 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.84 W/kg

SAR(1 g) = 1.23 W/kg; SAR(10 g) = 0.509 W/kg

Maximum value of SAR (measured) = 1.35 W/kg



Test Laboratory: BTL Inc. Date: 2019/7/5

T11_BT DH5_CH0_Back of Keyboard_0cm_Ant A

DUT: Notebook;

Communication System: UID 0, IEEE802.15.1 BluetoothGFSK,DH5 (0); Frequency: 2402 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2402$ MHz; $\sigma = 1.977$ S/m; $\epsilon_r = 52.173$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY Configuration:

- Probe: EX3DV4 - SN3685; ConvF(6.89, 6.89, 6.89) @ 2402 MHz; Calibrated: 2019/3/25
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/5/25
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (10x12x1): Interpolated grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (interpolated) = 0.0285 W/kg

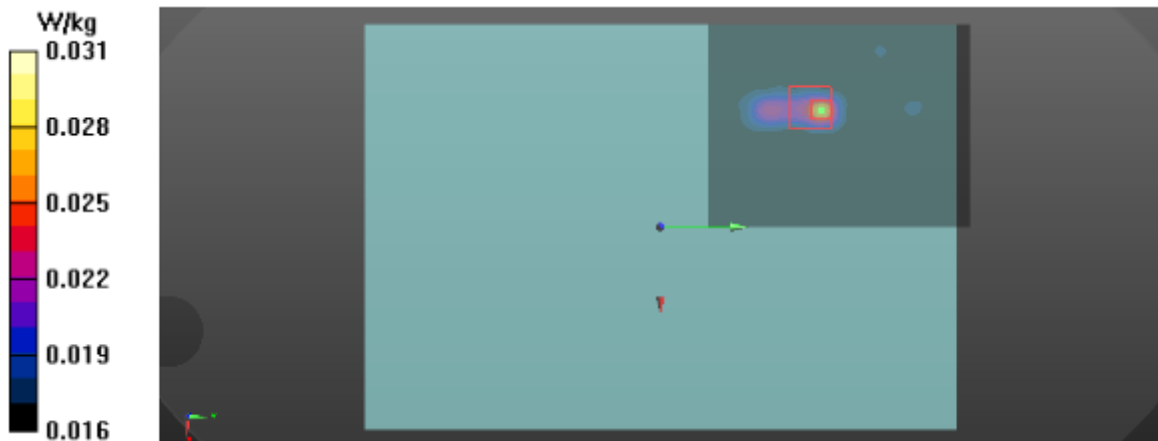
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 2.367 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.0390 W/kg

SAR(1 g) = 0.026 W/kg; SAR(10 g) = 0.020 W/kg

Maximum value of SAR (measured) = 0.0313 W/kg



Test Laboratory: BTL Inc. Date: 2019/7/7

T69_802.11a_CH48_Back of Keyboard_0cm_Ant A

DUT: Notebook;

Communication System: UID 0, IEEE 802.11a WiFi 5G(OFDM, 6 Mbps,) (0); Frequency: 5240 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5240 \text{ MHz}$; $\sigma = 5.426 \text{ S/m}$; $\epsilon_r = 47.576$; $\rho = 1000 \text{ kg/m}^3$

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

DASY Configuration:

- Probe: EX3DV4 - SN3685; ConvF(4.44, 4.44, 4.44) @ 5240 MHz; Calibrated: 2019/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/5/25
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (10x13x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 2.56 W/kg

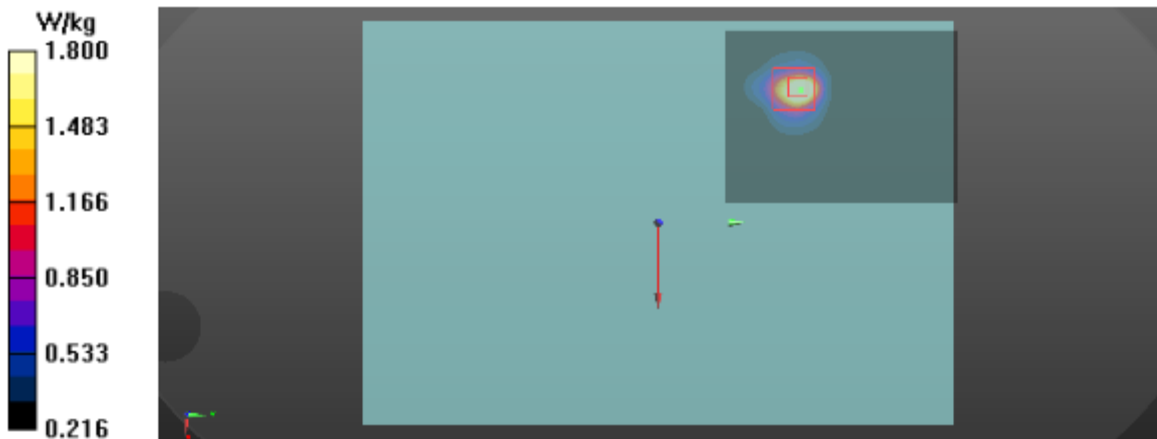
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 6.929 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 7.38 W/kg

SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.536 W/kg

Maximum value of SAR (measured) = 1.80 W/kg



Test Laboratory: BTL Inc. Date: 2019/7/7

T73_802.11a_CH44_Back of Keyboard_0cm_Ant B

DUT: Notebook;

Communication System: UID 0, IEEE 802.11a WiFi 5G(OFDM, 6 Mbps,) (0); Frequency: 5220 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.394 \text{ S/m}$; $\epsilon_r = 47.581$; $\rho = 1000 \text{ kg/m}^3$

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

DASY Configuration:

- Probe: EX3DV4 - SN3685; ConvF(4.44, 4.44, 4.44) @ 5220 MHz; Calibrated: 2019/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/5/25
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (10x13x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.44 W/kg

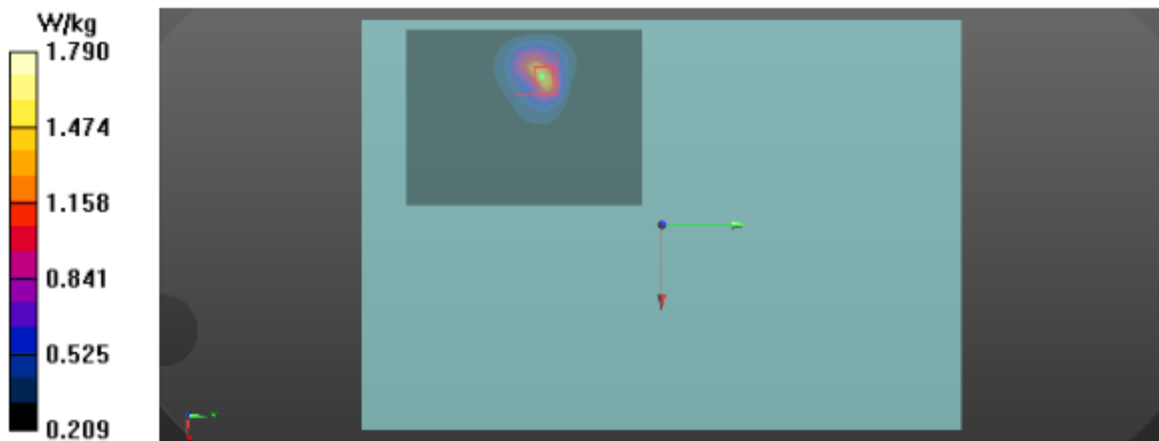
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 6.499 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 6.69 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.482 W/kg

Maximum value of SAR (measured) = 1.79 W/kg



Test Laboratory: BTL Inc. Date: 2019/7/6

T17_802.11a_CH60_Back of Keyboard_0cm_Ant A**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: $f = 5300$ MHz; $\sigma = 5.488$ S/m; $\epsilon_r = 47.447$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3685; ConvF(4.34, 4.34, 4.34) @ 5300 MHz; Calibrated: 2019/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/5/25
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (10x13x1): Interpolated grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 1.70 W/kg

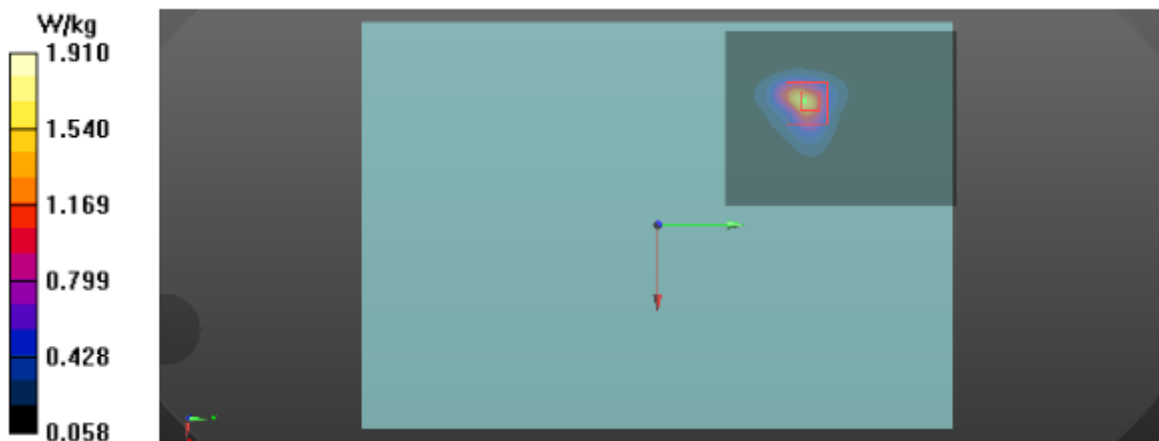
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 3.341 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 7.73 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.404 W/kg

Maximum value of SAR (measured) = 1.91 W/kg



Test Laboratory: BTL Inc. Date: 2019/7/6

T21_802.11a_CH56_Back of Keyboard_0cm_Ant B

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: $f = 5280 \text{ MHz}$; $\sigma = 5.469 \text{ S/m}$; $\epsilon_r = 47.532$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $23.3 \text{ }^\circ\text{C}$; Liquid Temperature : $22.3 \text{ }^\circ\text{C}$

DASY Configuration:

- Probe: EX3DV4 - SN3685; ConvF(4.34, 4.34, 4.34) @ 5280 MHz; Calibrated: 2019/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/5/25
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (10x13x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 2.38 W/kg

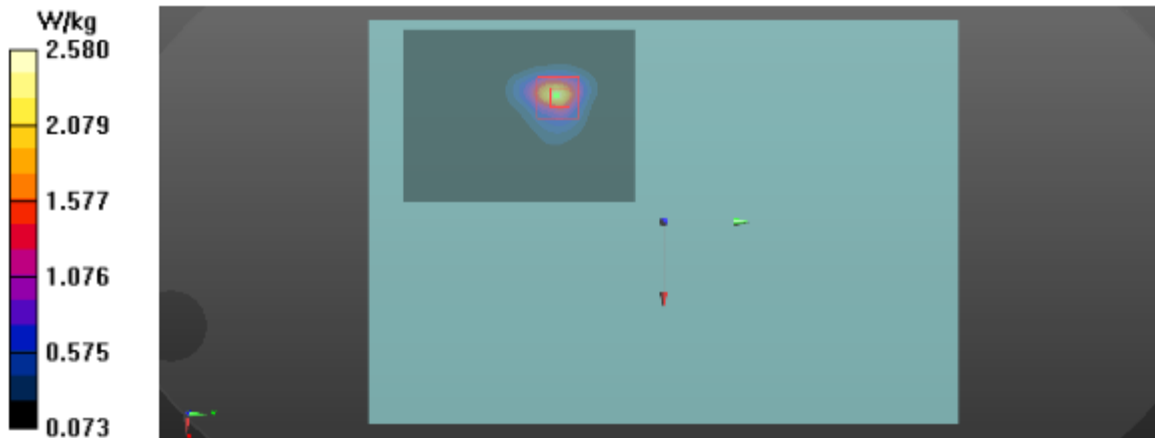
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 3.564 V/m ; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.98 W/kg

SAR(1 g) = 1.21 W/kg ; SAR(10 g) = 0.427 W/kg

Maximum value of SAR (measured) = 2.58 W/kg



Test Laboratory: BTL Inc. Date: 2019/7/6

T26_802.11a_CH140_Back of Keyboard_0cm_Ant A

DUT: Notebook;

Communication System: UID 0, IEEE 802.11a WiFi 5G(OFDM, 6 Mbps,) (0); Frequency: 5700 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5700 \text{ MHz}$; $\sigma = 6.065 \text{ S/m}$; $\epsilon_r = 46.711$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3685; ConvF(3.76, 3.76, 3.76) @ 5700 MHz; Calibrated: 2019/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/5/25
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (10x13x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 2.19 W/kg

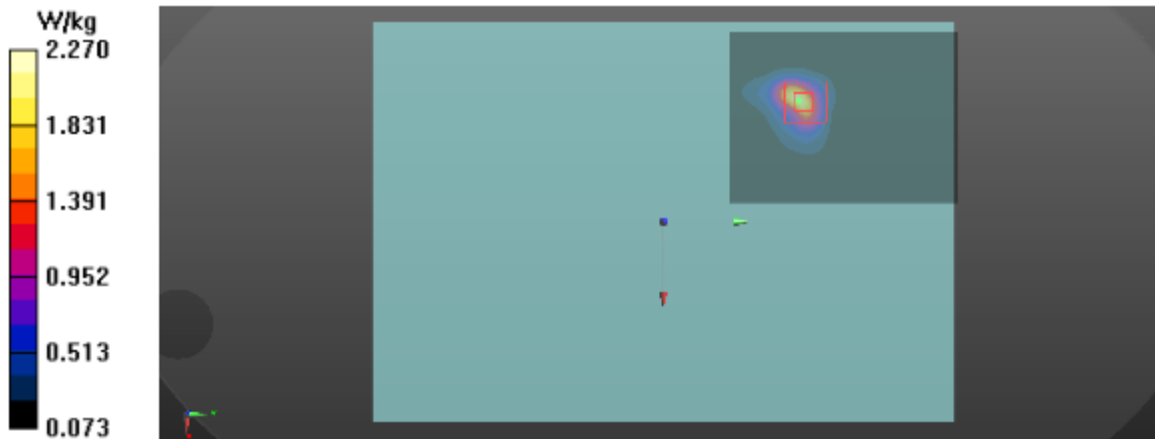
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 3.967 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 8.49 W/kg

SAR(1 g) = 1.27 W/kg; SAR(10 g) = 0.458 W/kg

Maximum value of SAR (measured) = 2.27 W/kg



Test Laboratory: BTL Inc. Date: 2019/7/6

T34_802.11a_CH108_Back of Keyboard_0cm_Ant B

DUT: Notebook;

Communication System: UID 0, IEEE 802.11a WiFi 5G(OFDM, 6 Mbps,) (0); Frequency: 5540 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5540 \text{ MHz}$; $\sigma = 5.834 \text{ S/m}$; $\epsilon_r = 46.945$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $23.3 \text{ }^\circ\text{C}$; Liquid Temperature : $22.3 \text{ }^\circ\text{C}$

DASY Configuration:

- Probe: EX3DV4 - SN3685; ConvF(3.81, 3.81, 3.81) @ 5540 MHz; Calibrated: 2019/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/5/25
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (10x13x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.80 W/kg

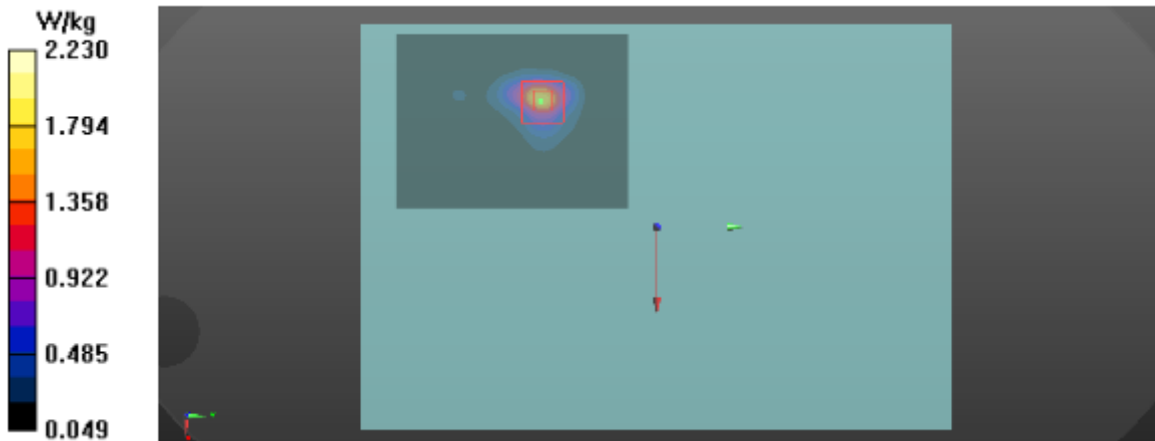
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 4.416 V/m ; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 10.4 W/kg

SAR(1 g) = 1.27 W/kg ; SAR(10 g) = 0.424 W/kg

Maximum value of SAR (measured) = 2.23 W/kg



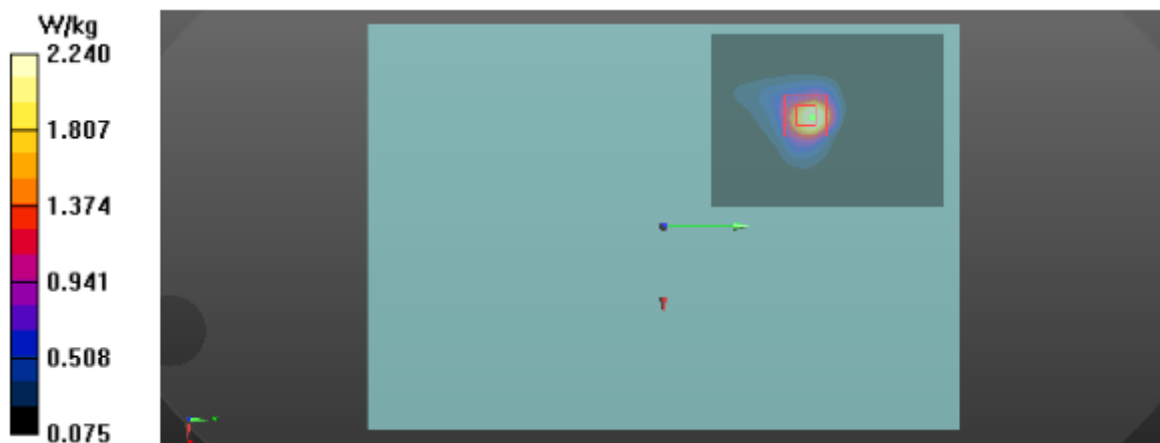
Test Laboratory: BTL Inc. Date: 2019/7/6

T39_802.11n40_CH151_Back of Keyboard_0cm_Ant A**DUT: Notebook;**

Communication System: UID 0, IEEE 802.11n WiFi 5G(HT40, 6.5 Mbps,) (0); Frequency: 5755 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5755 \text{ MHz}$; $\sigma = 6.133 \text{ S/m}$; $\epsilon_r = 46.551$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : $23.3 \text{ }^\circ\text{C}$; Liquid Temperature : $22.3 \text{ }^\circ\text{C}$ **DASY Configuration:**

- Probe: EX3DV4 - SN3685; ConvF(3.76, 3.76, 3.76) @ 5755 MHz; Calibrated: 2019/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/5/25
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (10x13x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$ Maximum value of SAR (interpolated) = 2.60 W/kg **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$ Reference Value = 3.466 V/m ; Power Drift = 0.10 dB Peak SAR (extrapolated) = 3.64 W/kg **SAR(1 g) = 1.11 W/kg ; SAR(10 g) = 0.435 W/kg** Maximum value of SAR (measured) = 2.24 W/kg 

Test Laboratory: BTL Inc. Date: 2019/7/6

T42_802.11n40_CH151_Back of Keyboard_0cm_Ant B**DUT: Notebook;**

Communication System: UID 0, IEEE 802.11n WiFi 5G(HT40, 6.5 Mbps,) (0); Frequency: 5755 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5755 \text{ MHz}$; $\sigma = 6.133 \text{ S/m}$; $\epsilon_r = 46.551$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $23.3 \text{ }^\circ\text{C}$; Liquid Temperature : $22.3 \text{ }^\circ\text{C}$

DASY Configuration:

- Probe: EX3DV4 - SN3685; ConvF(3.76, 3.76, 3.76) @ 5755 MHz; Calibrated: 2019/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/5/25
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (10x13x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 2.22 W/kg

Zoom Scan (5x5x4)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.780 V/m ; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 4.23 W/kg

SAR(1 g) = 1.19 W/kg ; SAR(10 g) = 0.418 W/kg

Maximum value of SAR (measured) = 2.58 W/kg

