

Test Laboratory: BTL Inc.

Date: 2022/4/29

W05_802.11b_CH1_Back of keyboard_0cm_ANT Aux**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 (interpolated): $f = 2412$ MHz; $\sigma = 1.819$ S/m; $\epsilon_r = 39.842$; $\rho = 1000$ kg/m³

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

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(7.51, 7.51, 7.51) @ 2412 MHz; Calibrated: 2021/12/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1423; Calibrated: 2022/1/21
- 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 (9x14x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.298 W/kg

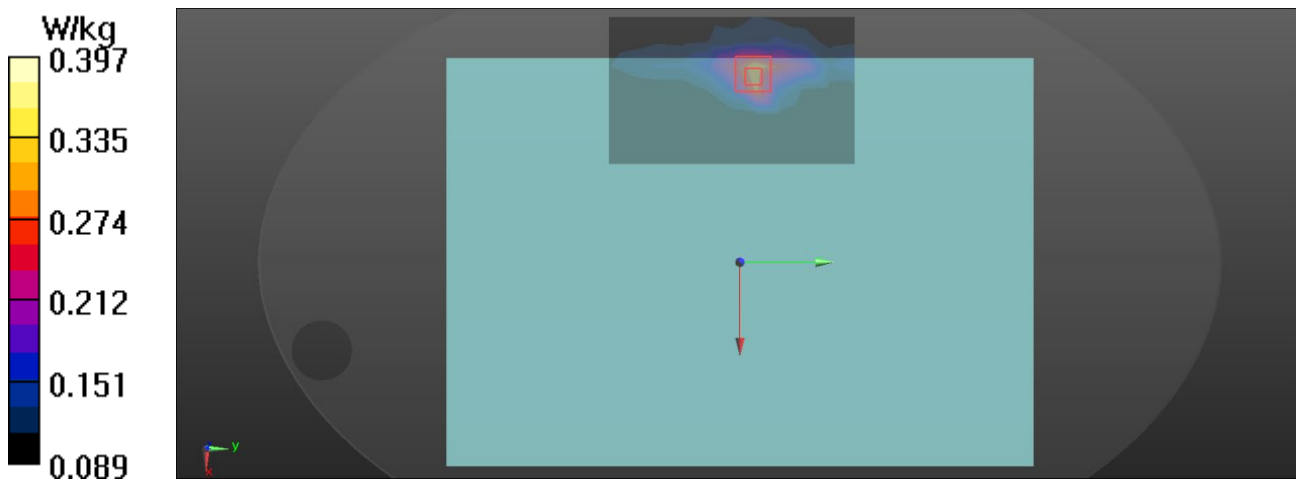
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 5.881 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.489 W/kg

SAR(1 g) = 0.273 W/kg; SAR(10 g) = 0.177 W/kg

Maximum value of SAR (measured) = 0.397 W/kg



Test Laboratory: BTL Inc.

Date: 2022/4/29

W12_802.11b_CH6_Back of keyboard_0cm_ANT Main**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; $\sigma = 1.845$ S/m; $\epsilon_r = 39.782$; $\rho = 1000$ kg/m³

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

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(7.51, 7.51, 7.51) @ 2437 MHz; Calibrated: 2021/12/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1423; Calibrated: 2022/1/21
- 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 (9x19x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.501 W/kg

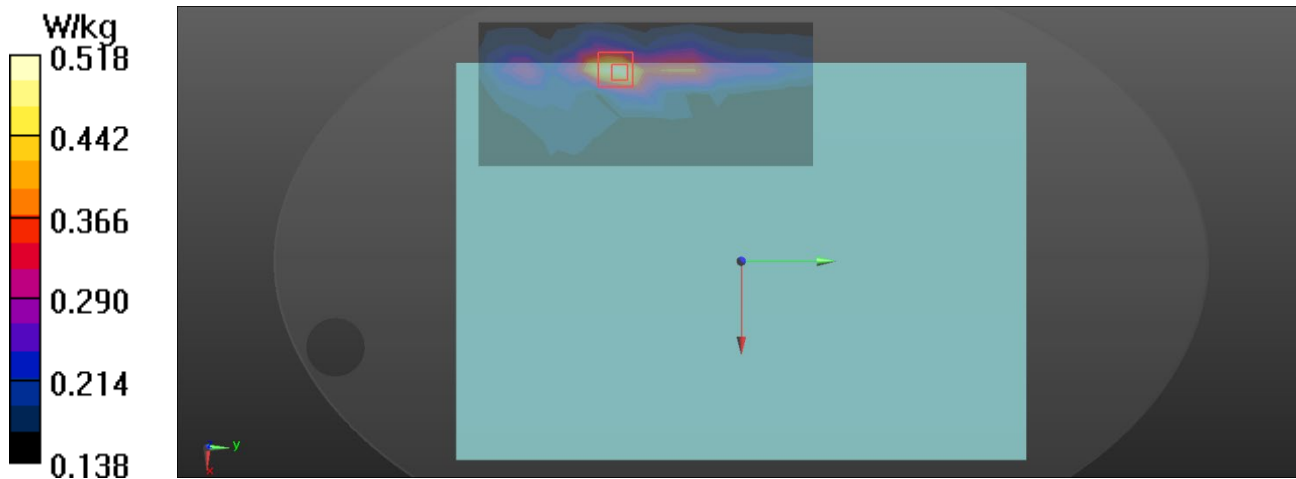
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 8.001 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.725 W/kg

SAR(1 g) = 0.401 W/kg; SAR(10 g) = 0.259 W/kg

Maximum value of SAR (measured) = 0.518 W/kg



Test Laboratory: BTL Inc.

Date: 2022/4/29

B02_BLE_CH19_1M_Back of keyboard_0cm_ANT Aux

DUT: Notebook;

Communication System: UID 0, Bluetooth (0);

Frequency: 2440 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2440$ MHz; $\sigma = 1.848$ S/m; $\epsilon_r = 39.774$; $\rho = 1000$ kg/m³

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

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(7.51, 7.51, 7.51) @ 2440 MHz; Calibrated: 2021/12/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1423; Calibrated: 2022/1/21
- 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 (9x23x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.165 W/kg

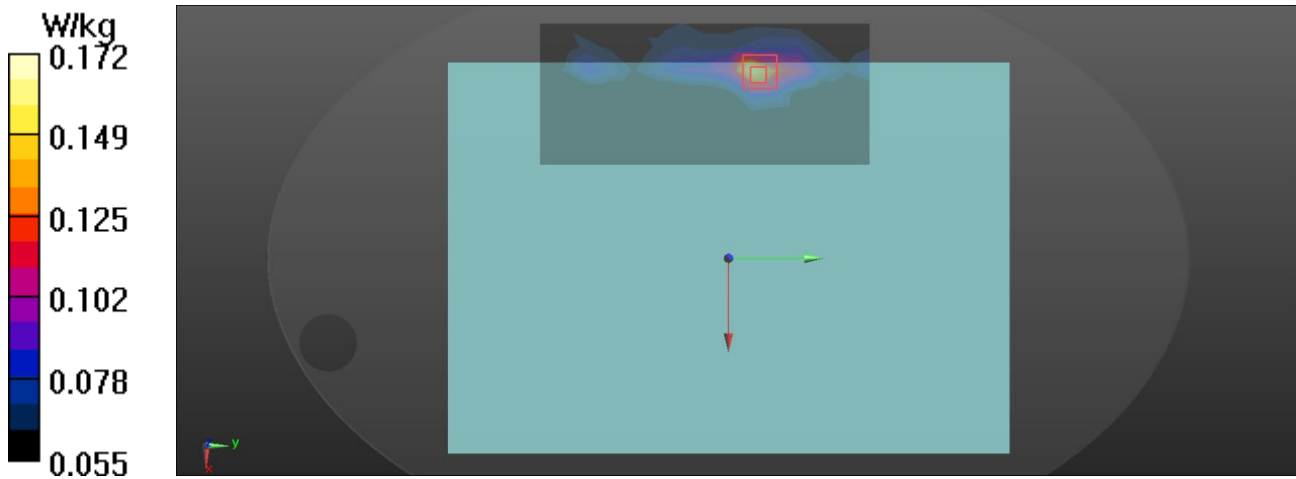
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 4.362 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.240 W/kg

SAR(1 g) = 0.134 W/kg; SAR(10 g) = 0.091 W/kg

Maximum value of SAR (measured) = 0.172 W/kg



Test Laboratory: BTL Inc.

Date: 2022/4/30

W19_802.11a_CH40_Back of keyboard_0cm_ANT Aux

DUT: Notebook;

Communication System: UID 0, IEEE 802.11a WiFi 5G(OFDM, 6 Mbps,) (0);

Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 4.726 \text{ S/m}$; $\epsilon_r = 35.715$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $23.2 \text{ }^\circ\text{C}$; Liquid Temperature: $22.5 \text{ }^\circ\text{C}$

DASY Configuration:

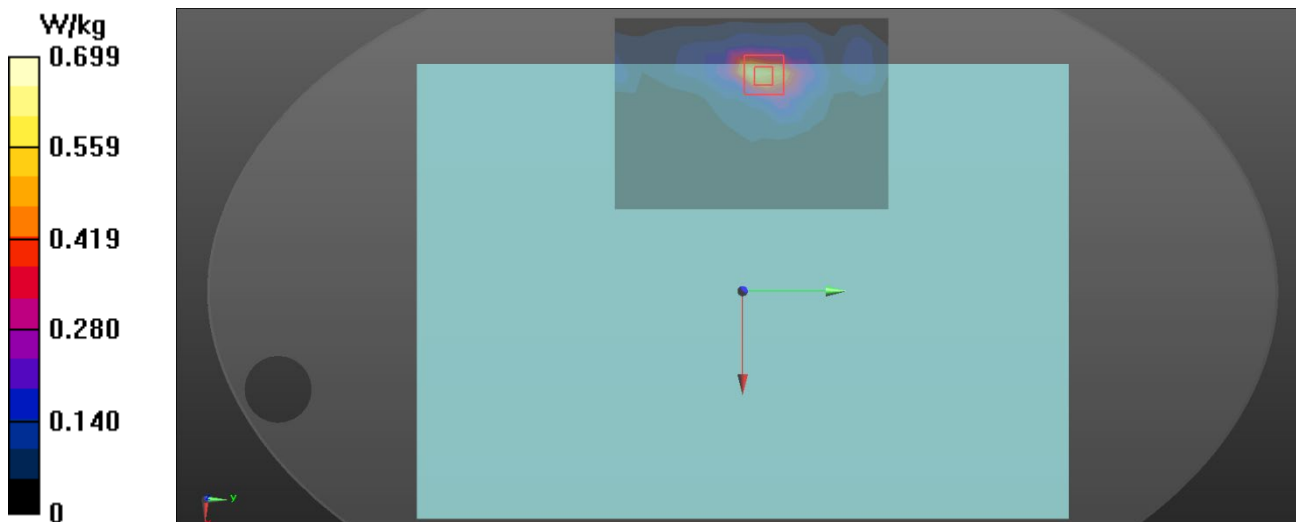
- Probe: EX3DV4 - SN7693; ConvF(5.69, 5.69, 5.69) @ 5200 MHz; Calibrated: 2021/11/3
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2021/12/29
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (12x17x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.643 W/kg
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0 V/m ; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.23 W/kg
SAR(1 g) = 0.317 W/kg ; SAR(10 g) = 0.111 W/kg

Maximum value of SAR (measured) = 0.699 W/kg


Test Laboratory: BTL Inc.

Date: 2022/4/30

W23_802.11a_CH36_Back of keyboard_0cm_ANT Main

DUT: Notebook;

Communication System: UID 0, IEEE 802.11a WiFi 5G(OFDM, 6 Mbps,) (0);

Frequency: 5180 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 4.706 \text{ S/m}$; $\epsilon_r = 35.762$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $23.2 \text{ }^\circ\text{C}$; Liquid Temperature: $22.5 \text{ }^\circ\text{C}$

DASY Configuration:

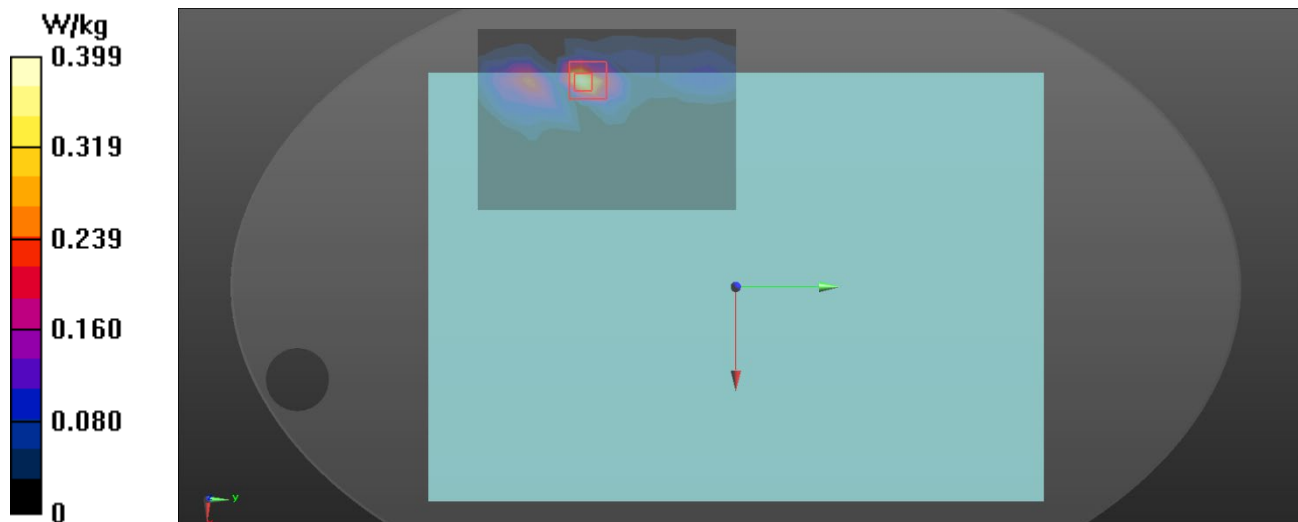
- Probe: EX3DV4 - SN7693; ConvF(5.69, 5.69, 5.69) @ 5180 MHz; Calibrated: 2021/11/3
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2021/12/29
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (12x17x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.399 W/kg
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0 V/m ; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.23 W/kg
SAR(1 g) = 0.181 W/kg ; SAR(10 g) = 0.051 W/kg

Maximum value of SAR (measured) = 0.348 W/kg


Test Laboratory: BTL Inc.

Date: 2022/4/30

W33_802.11a_CH64_Back of keyboard_0cm_ANT Aux

DUT: Notebook;

Communication System: UID 0, IEEE 802.11a WiFi 5G(OFDM, 6 Mbps,) (0);

Frequency: 5320 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5320 \text{ MHz}$; $\sigma = 4.842 \text{ S/m}$; $\epsilon_r = 35.208$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $23.2 \text{ }^\circ\text{C}$; Liquid Temperature: $22.5 \text{ }^\circ\text{C}$

DASY Configuration:

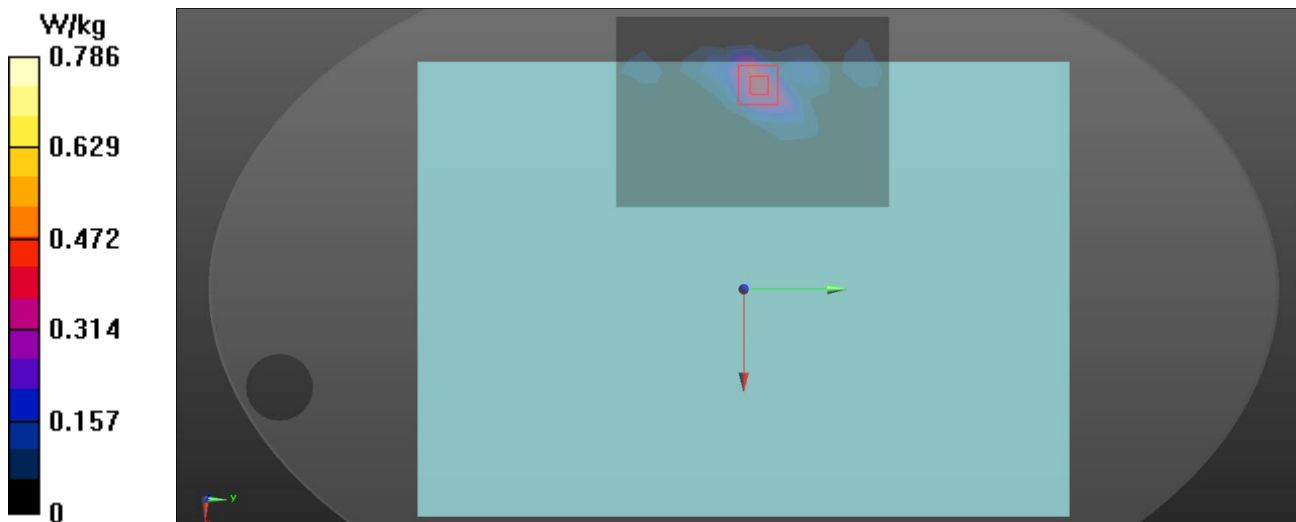
- Probe: EX3DV4 - SN7693; ConvF(5.69, 5.69, 5.69) @ 5320 MHz; Calibrated: 2021/11/3
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2021/12/29
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (12x17x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.443 W/kg
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0 V/m ; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.44 W/kg
SAR(1 g) = 0.341 W/kg ; SAR(10 g) = 0.104 W/kg

Maximum value of SAR (measured) = 0.786 W/kg


Test Laboratory: BTL Inc.

Date: 2022/4/30

W37_802.11a_CH52_Back of keyboard_0cm_ANT Main

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: $f = 5260 \text{ MHz}$; $\sigma = 4.768 \text{ S/m}$; $\epsilon_r = 35.432$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $23.2 \text{ }^\circ\text{C}$; Liquid Temperature: $22.5 \text{ }^\circ\text{C}$

DASY Configuration:

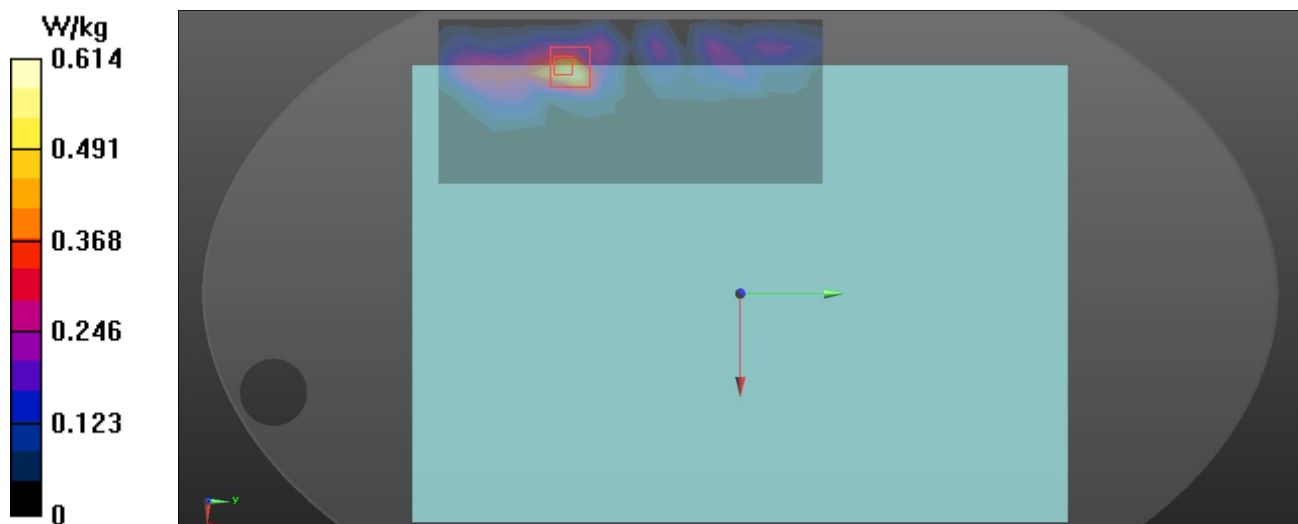
- Probe: EX3DV4 - SN7693; ConvF(5.69, 5.69, 5.69) @ 5260 MHz; Calibrated: 2021/11/3
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2021/12/29
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (11x23x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.599 W/kg
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0 V/m ; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.918 W/kg
SAR(1 g) = 0.296 W/kg ; SAR(10 g) = 0.096 W/kg

Maximum value of SAR (measured) = 0.614 W/kg


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W44_802.11a_CH116_Back of keyboard_0cm_ANT Aux

DUT: Notebook;

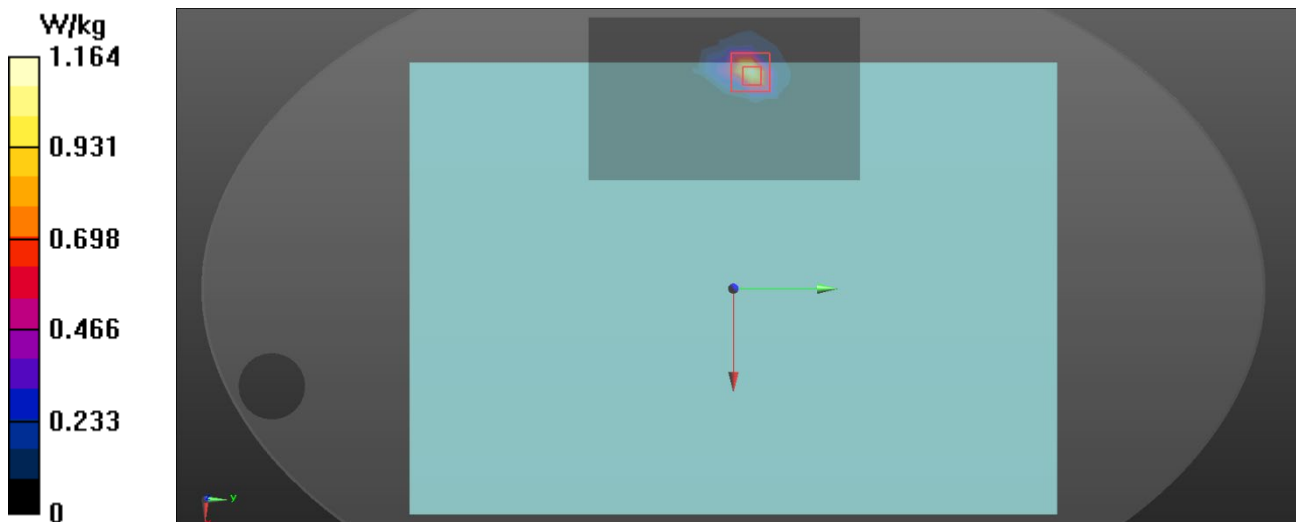
Communication System: UID 0, IEEE 802.11a WiFi 5G(OFDM, 6 Mbps,) (0);
Frequency: 5580 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5580 \text{ MHz}$; $\sigma = 5.21 \text{ S/m}$; $\epsilon_r = 34.689$; $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature: $23.2 \text{ }^\circ\text{C}$; Liquid Temperature: $22.5 \text{ }^\circ\text{C}$

DASY Configuration:

- Probe: EX3DV4 - SN7693; ConvF(4.95, 4.95, 4.95) @ 5580 MHz; Calibrated: 2021/11/3
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2021/12/29
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (11x17x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 1.16 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
Reference Value = 0 V/m ; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 3.02 W/kg
SAR(1 g) = 0.478 W/kg ; SAR(10 g) = 0.128 W/kg
Maximum value of SAR (measured) = 0.985 W/kg



Test Laboratory: BTL Inc.

Date: 2022/4/30

W51_802.11a_CH116_Back of keyboard_0cm_ANT Main

DUT: Notebook;

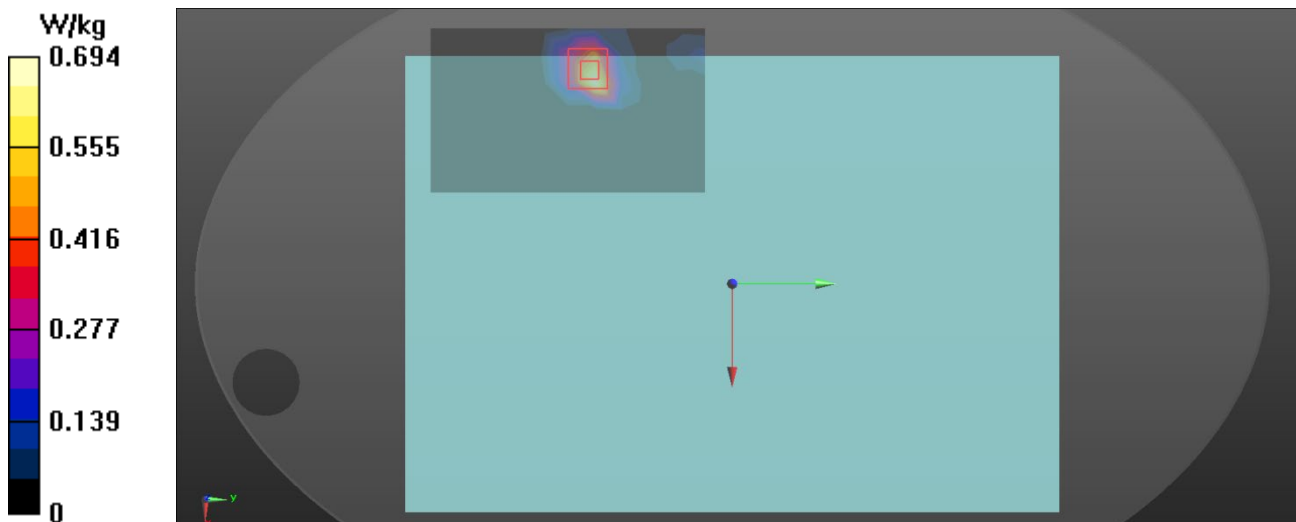
Communication System: UID 0, IEEE 802.11a WiFi 5G(OFDM, 6 Mbps,) (0);
Frequency: 5580 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5580 \text{ MHz}$; $\sigma = 5.21 \text{ S/m}$; $\epsilon_r = 34.689$; $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature: $23.2 \text{ }^\circ\text{C}$; Liquid Temperature: $22.5 \text{ }^\circ\text{C}$

DASY Configuration:

- Probe: EX3DV4 - SN7693; ConvF(4.95, 4.95, 4.95) @ 5580 MHz; Calibrated: 2021/11/3
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2021/12/29
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (11x17x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 0.694 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
Reference Value = 0 V/m ; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 3.09 W/kg
SAR(1 g) = 0.571 W/kg ; SAR(10 g) = 0.143 W/kg
Maximum value of SAR (measured) = 1.52 W/kg



Test Laboratory: BTL Inc.

Date: 2022/4/30

W58_802.11a_CH157_Back of keyboard_0cm_ANT Aux

DUT: Notebook;

Communication System: UID 0, IEEE 802.11a WiFi 5G(OFDM, 6 Mbps,) (0);

Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5785 \text{ MHz}$; $\sigma = 5.387 \text{ S/m}$; $\epsilon_r = 34.164$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $23.2 \text{ }^\circ\text{C}$; Liquid Temperature: $22.5 \text{ }^\circ\text{C}$

DASY Configuration:

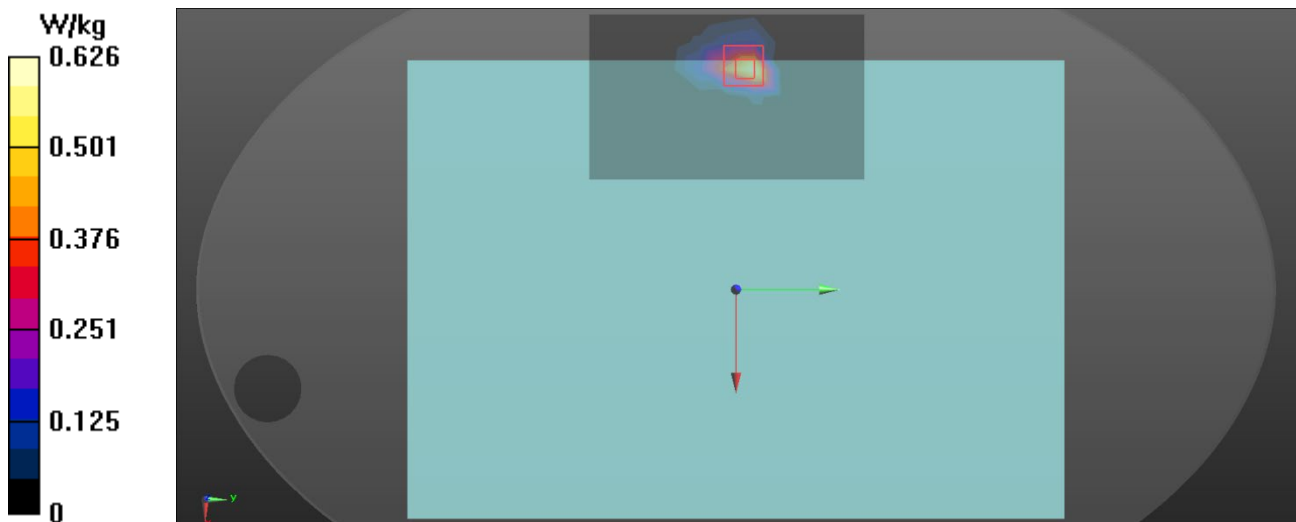
- Probe: EX3DV4 - SN7693; ConvF(5.25, 5.25, 5.25) @ 5785 MHz; Calibrated: 2021/11/3
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2021/12/29
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (11x17x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.626 W/kg
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0 V/m ; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.23 W/kg
SAR(1 g) = 0.281 W/kg ; SAR(10 g) = 0.078 W/kg

Maximum value of SAR (measured) = 0.646 W/kg


Test Laboratory: BTL Inc.

Date: 2022/4/30

W65_802.11a_CH149_Back of keyboard_0cm_ANT Main

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): $f = 5745 \text{ MHz}$; $\sigma = 5.348 \text{ S/m}$; $\epsilon_r = 34.288$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $23.2 \text{ }^\circ\text{C}$; Liquid Temperature: $22.5 \text{ }^\circ\text{C}$

DASY Configuration:

- Probe: EX3DV4 - SN7693; ConvF(5.25, 5.25, 5.25) @ 5745 MHz; Calibrated: 2021/11/3
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2021/12/29
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (11x17x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.666 W/kg
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0 V/m ; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.35 W/kg
SAR(1 g) = 0.376 W/kg ; SAR(10 g) = 0.101 W/kg

Maximum value of SAR (measured) = 0.885 W/kg
