

Test Laboratory: BTL Inc.

Date: 2018/3/18

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

DUT: RZ09;

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;  $\sigma = 1.916$  S/m;  $\epsilon_r = 53.203$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

DASY Configuration:

- Probe: EX3DV4 – SN7396; ConvF(7.53, 7.53, 7.53); Calibrated: 2017/5/25;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 2017/9/15
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (10x25x1):** Interpolated grid:  $dx=12$  mm,  $dy=12$  mm

Maximum value of SAR (interpolated) = 0.482 W/kg

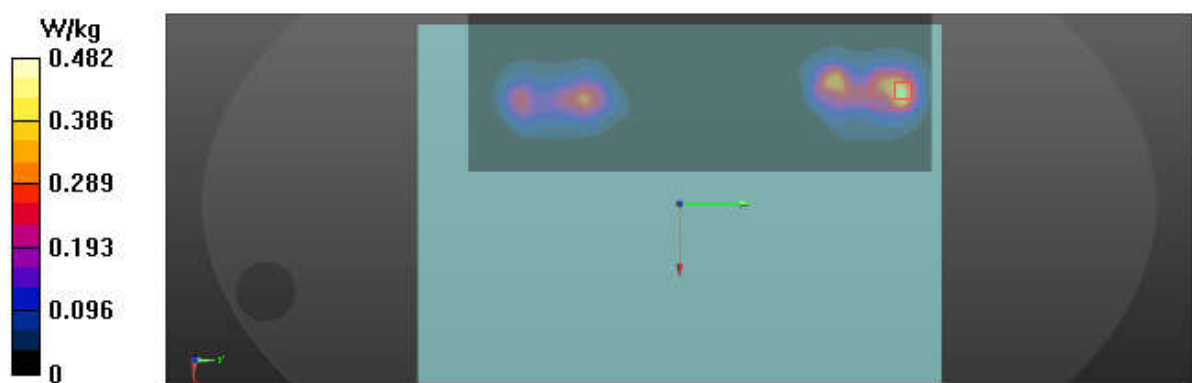
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

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

Peak SAR (extrapolated) = 0.489 W/kg

**SAR(1 g) = 0.222 W/kg; SAR(10 g) = 0.109 W/kg**

Maximum value of SAR (measured) = 0.385 W/kg



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**T07\_802.11a\_CH64\_Back of Keyboard\_0cm**

**DUT: RZ09;**

Communication System: UID 0, IEEE 802.11a WiFi 5G(OFDM, 6 Mbps,) (0); Frequency: 5320 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5320$  MHz;  $\sigma = 5.51$  S/m;  $\epsilon_r = 47.414$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.3 °C

DASY Configuration:

- Probe: EX3DV4 – SN7396; ConvF(4.93, 4.93, 4.93); Calibrated: 2017/5/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2017/9/15
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (12x31x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.680 W/kg

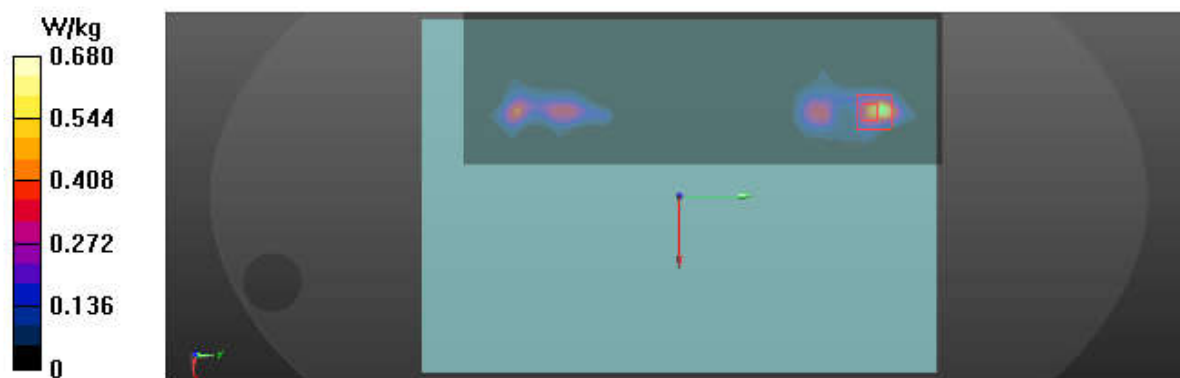
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

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

Peak SAR (extrapolated) = 0.585 W/kg

**SAR(1 g) = 0.182 W/kg; SAR(10 g) = 0.063 W/kg**

Maximum value of SAR (measured) = 0.373 W/kg



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# **T19\_802.11a\_CH136\_Back of Keyboard\_0cm**

**DUT: RZ09;**

Communication System: UID 0, IEEE 802.11a WiFi 5G(OFDM, 6 Mbps,) (0); Frequency: 5680 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5680 \text{ MHz}$ ;  $\sigma = 6.003 \text{ S/m}$ ;  $\epsilon_r = 46.723$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature:  $23.4 \text{ }^\circ\text{C}$ ; Liquid Temperature:  $22.3 \text{ }^\circ\text{C}$

DASY Configuration:

- Probe: EX3DV4 – SN7396; ConvF(4.19, 4.19, 4.19); Calibrated: 2017/5/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2017/9/15
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (12x31x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) =  $0.416 \text{ W/kg}$

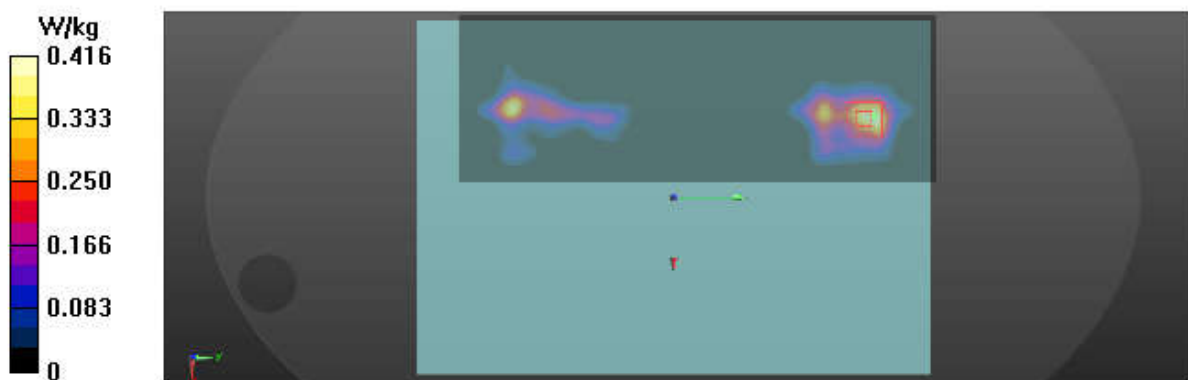
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value =  $0 \text{ V/m}$ ; Power Drift =  $0.00 \text{ dB}$

Peak SAR (extrapolated) =  $0.823 \text{ W/kg}$

**SAR(1 g) =  $0.224 \text{ W/kg}$ ; SAR(10 g) =  $0.075 \text{ W/kg}$**

Maximum value of SAR (measured) =  $0.494 \text{ W/kg}$



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### T23\_802.11a\_CH165\_Back of Keyboard\_0cm

DUT: RZ09;

Communication System: UID 0, IEEE 802.11a WiFi 5G(OFDM, 6 Mbps,) (0); Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5825$  MHz;  $\sigma = 6.217$  S/m;  $\epsilon_r = 46.371$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.3 °C

DASY Configuration:

- Probe: EX3DV4 – SN7396; ConvF(4.52, 4.52, 4.52); Calibrated: 2017/5/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2017/9/15
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (12x31x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.539 W/kg

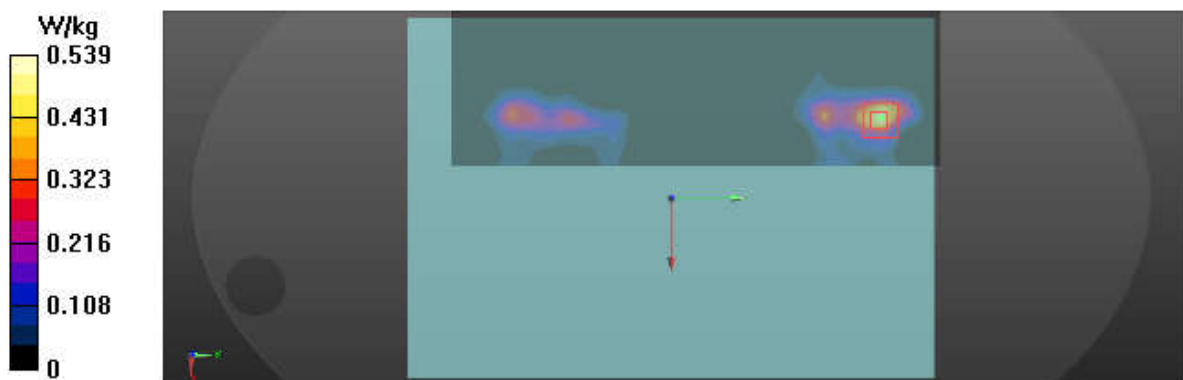
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

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

Peak SAR (extrapolated) = 0.906 W/kg

**SAR(1 g) = 0.238 W/kg; SAR(10 g) = 0.080 W/kg**

Maximum value of SAR (measured) = 0.495 W/kg



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**T32\_BT DH5\_CHO\_Back of Keyboard\_0cm**

**DUT: RZ09;**

Communication System: UID 0, IEEE802.15.1 BluetoothGFSK, DH5 (0); Frequency: 2402 MHz; Duty Cycle: 1:3.38844

Medium parameters used:  $f = 2402$  MHz;  $\sigma = 1.899$  S/m;  $\epsilon_r = 53.21$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

DASY Configuration:

- Probe: EX3DV4 – SN7396; ConvF(7.53, 7.53, 7.53); Calibrated: 2017/5/25;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 2017/9/15
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (10x13x1):** Interpolated grid:  $dx=12$  mm,  $dy=12$  mm

Maximum value of SAR (interpolated) = 0.0217 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) = 0.0240 W/kg

**SAR(1 g) = 0.004 W/kg; SAR(10 g) = 0.001 W/kg**

Maximum value of SAR (measured) = 0.0112 W/kg

