

Test Laboratory: BTL Inc.

Date: 2018/1/13

**T18\_802.11b\_CH1\_Tip Side\_Angle 90\_0.5cm\_Ant 0**

**DUT: ARCHER ARCHER T4U;**

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;  $\sigma = 1.925$  S/m;  $\epsilon_r = 53.303$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.1 °C; Liquid Temperature: 22.3 °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: SAM Right; Type: Twin SAM; Serial: 1896
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (6x11x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.55 W/kg

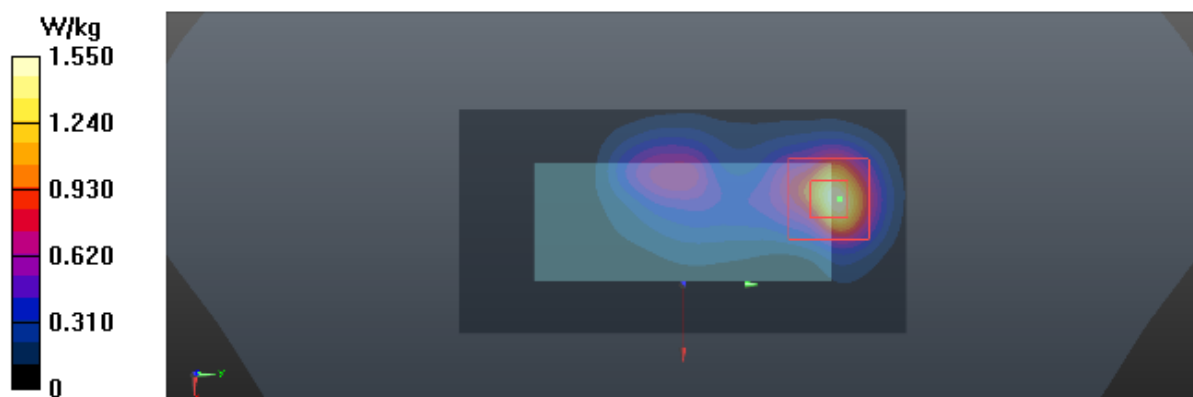
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.85 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.52 W/kg

**SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.428 W/kg**

Maximum value of SAR (measured) = 1.66 W/kg



Test Laboratory: BTL Inc.

Date: 2018/1/13

T40\_802.11n40\_CH3\_Tip Side\_Angle 90\_0.5cm\_Ant 0+1

DUT: ARCHER ARCHER T4U;

Communication System: UID 0, IEEE 802.11n(HT40, 13.5Mbps, BPSK) (0); Frequency: 2422 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2422$  MHz;  $\sigma = 1.94$  S/m;  $\epsilon_r = 53.307$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.1 °C; Liquid Temperature: 22.3 °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: SAM Right; Type: Twin SAM; Serial: 1896
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (6x11x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.07 W/kg

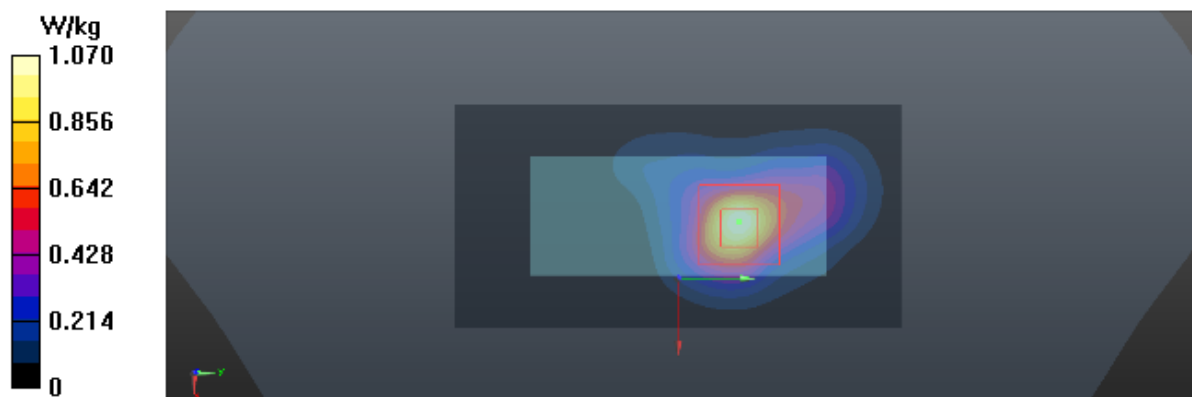
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.73 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.36 W/kg

**SAR(1 g) = 0.999 W/kg; SAR(10 g) = 0.421 W/kg**

Maximum value of SAR (measured) = 1.15 W/kg



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Date: 2018/1/12

**T60\_802.11a\_CH64\_Horizontal-Down\_Angel 0\_0.5cm\_Ant 0**

**DUT: ARCHER T4U;**

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;  $\epsilon_r = 47.352$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.6 °C

DASY Configuration:

- Probe: EX3DV4 - SN7396; ConvF(4.93, 4.93, 4.93); Calibrated: 2017/5/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 2017/9/15
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (9x13x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.05 W/kg

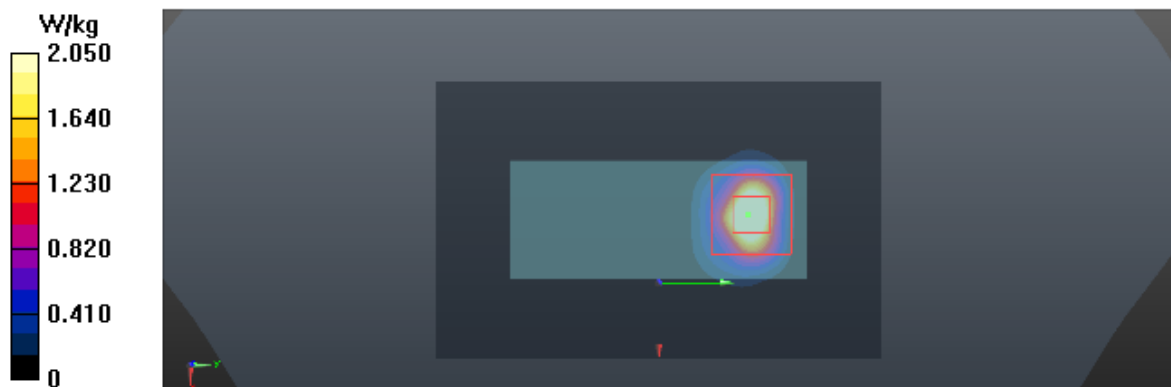
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.256 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 4.12 W/kg

**SAR(1 g) = 0.964 W/kg; SAR(10 g) = 0.253 W/kg**

Maximum value of SAR (measured) = 1.94 W/kg



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**T80\_802.11a\_CH140\_Horizontal-Down\_Angle 0\_0.5cm\_Ant 0**

**DUT: ARCHER T4U;**

Communication System: UID 0, IEEE 802.11a WiFi 5G(OFDM, 6 Mbps,) (0); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.894$  S/m;  $\epsilon_r = 46.75$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.6 °C

DASY Configuration:

- Probe: EX3DV4 - SN7396; ConvF(4.19, 4.19, 4.19); Calibrated: 2017/5/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 2017/9/15
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (9x13x1):** Interpolated grid: dx=10 mm, dy=10 mm

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

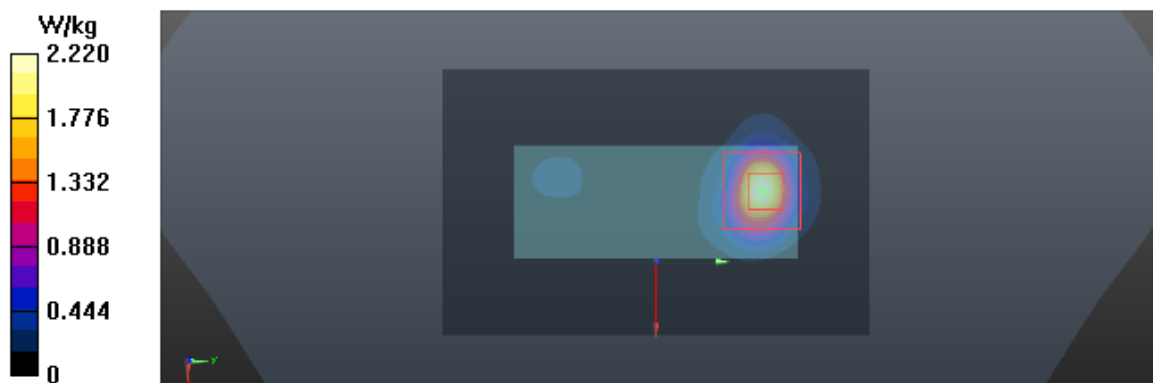
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

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

Peak SAR (extrapolated) = 5.39 W/kg

**SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.330 W/kg**

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



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T107\_802.11a\_CH165\_Horizontal-Down\_Angle 0\_0.5cm\_Ant 0

DUT: ARCHER T4U;

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;  $\sigma = 6.216$  S/m;  $\epsilon_r = 46.301$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.1 °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),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 2017/9/15
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (9x13x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.44 W/kg

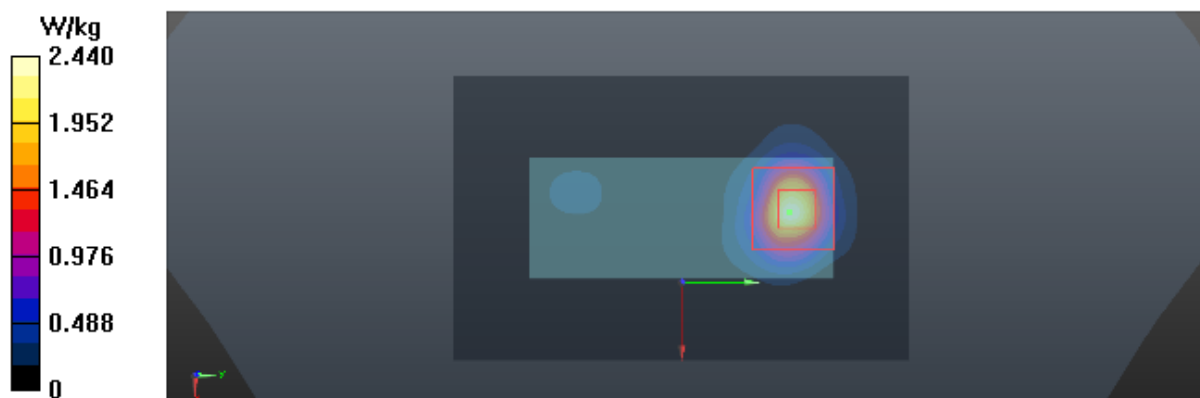
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.298 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 5.45 W/kg

**SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.348 W/kg**

Maximum value of SAR (measured) = 2.09 W/kg



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T113\_802.11ac\_CH58\_Horizontal-Down\_Angle 0\_0.5cm\_Ant 0+1

DUT: ARCHER T4U;

Communication System: UID 0, IEEE 802.11ac WIFI (80MHz, 64-QAM, 99pc duty cycle) (0); Frequency: 5290 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5290$  MHz;  $\sigma = 5.472$  S/m;  $\epsilon_r = 47.377$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.6 °C

DASY Configuration:

- Probe: EX3DV4 - SN7396; ConvF(4.93, 4.93, 4.93); Calibrated: 2017/5/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 2017/9/15
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (9x13x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.61 W/kg

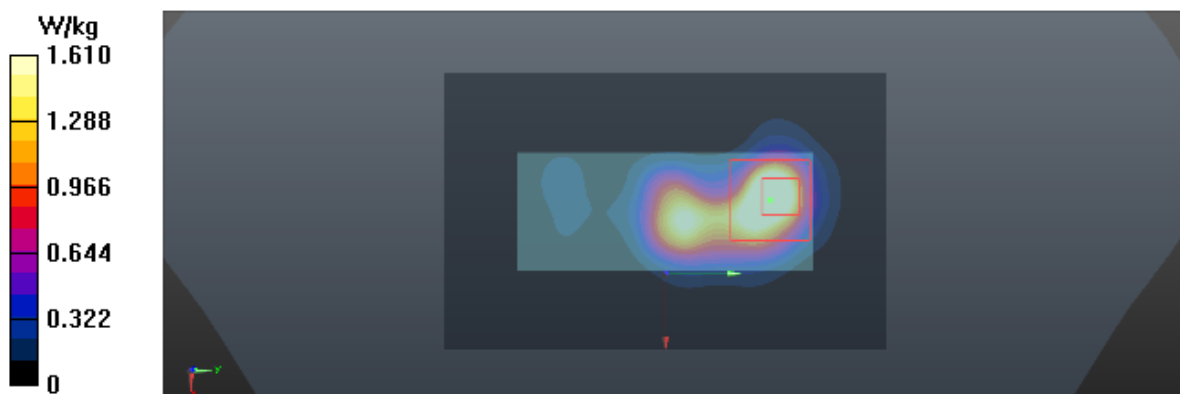
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.762 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 5.03 W/kg

**SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.278 W/kg**

Maximum value of SAR (measured) = 2.00 W/kg



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**T128\_802.11ac\_CH122\_Horizontal-Down\_Angle\_0\_0.5cm\_Ant\_0+1**

**DUT: ARCHER T4U;**

Communication System: UID 0, IEEE 802.11ac WIFI (80MHz, 64-QAM, 99pc duty cycle) (0); Frequency: 5610 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5610$  MHz;  $\sigma = 5.915$  S/m;  $\epsilon_r = 46.724$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.6 °C

DASY Configuration:

- Probe: EX3DV4 - SN7396; ConvF(4.19, 4.19, 4.19); Calibrated: 2017/5/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 2017/9/15
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (9x13x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.88 W/kg

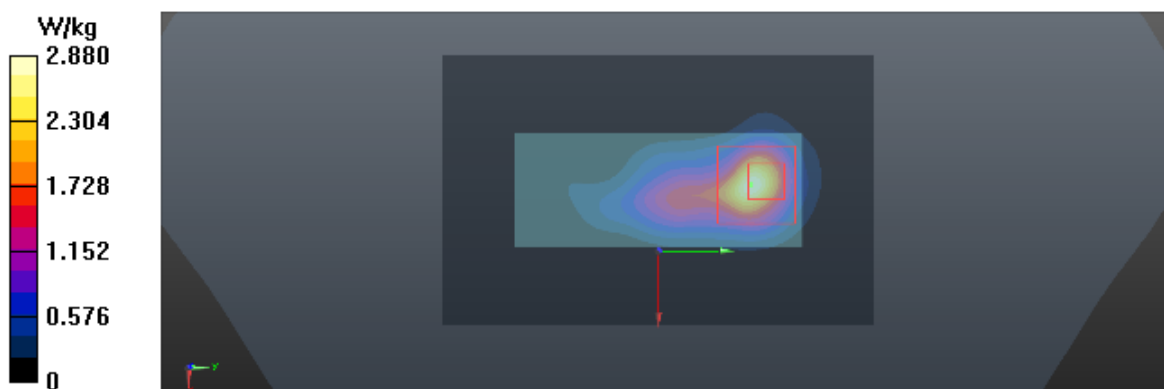
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.292 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 3.84 W/kg

**SAR(1 g) = 0.907 W/kg; SAR(10 g) = 0.298 W/kg**

Maximum value of SAR (measured) = 1.68 W/kg



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**T146\_802.11ac\_CH155\_Horizontal-Down\_Angle 0\_0.5cm\_Ant 0+1**

**DUT: ARCHER T4U;**

Communication System: UID 0, IEEE 802.11ac WIFI (80MHz, 64-QAM, 99pc duty cycle) (0); Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5775$  MHz;  $\sigma = 6.149$  S/m;  $\epsilon_r = 46.491$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.1 °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),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 2017/9/15
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (9x13x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.69 W/kg

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

Reference Value = 6.555 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 4.25 W/kg

**SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.330 W/kg**

Maximum value of SAR (measured) = 1.92 W/kg

