

## RF Exposure Report

**Report No.:** SA190515C01

**FCC ID:** OGSUTM300

**Test Model:** UTM-300 UHF RFID Reader Module

**Received Date:** May 15, 2019

**Test Date:** May 18 ~ Jun. 17, 2019

**Issued Date:** Jun. 20, 2019

**Applicant:** Applied Wireless Identifications (AWID) Group Inc.

**Address:** 18300 Sutter Blvd. Morgan Hill, CA, 95037, USA

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan (R.O.C.)

**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)



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### Release Control Record

Issue No.	Description	Date Issued
SA190515C01	Original release.	Jun. 20, 2019

## 1 Certificate of Conformity

**Product:** UTM-300 UHF RFID Reader Module

**Brand:** AWID

**Test Model:** UTM-300 UHF RFID Reader Module

**Sample Status:** Engineering sample

**Applicant:** Applied Wireless Identifications (AWID) Group Inc.

**Test Date:** May 18 ~ Jun. 17, 2019

**Standards:** FCC Part 2 (Section 2.1093)  
KDB 447498 D01 General RF Exposure Guidance v06  
IEEE C95.3 -2002

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

**Prepared by :**  , **Date:** Jun. 20, 2019  
Polly Chien / Specialist

**Approved by :**  , **Date:** Jun. 20, 2019  
Bruce Chen / Project Engineer

## 2 RF Exposure

### 2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	...	...	f/1500	30
1500-100,000	...	...	1.0	30

f = Frequency in MHz ; \*Plane-wave equivalent power density

### 2.2 MPE Calculation Formula

$$Pd = (Pout * G) / (4 * pi * r^2)$$

where

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

### 2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

## 3 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
902.6 ~ 927.4	27.98	5.8	20	0.475	0.602

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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