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 : Polly Chien , **Date:** Jun. 20, 2019

Polly Chien / Specialist

Approved by : Bruce Chen , **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^2)	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	($180/f^2$)*	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^2

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^2)	Limit (mW/cm^2)
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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