

## FCC SAR Exclusion Report

**Report No.:** SA190909C23

**FCC ID:** OGS1356RM

**Contains module FCC ID:** OGS915RMSD (For UHF module)

**Test Model:** XJ-1023

**Received Date:** Sep. 09, 2019

**Test Date:** Sep. 18 ~ Sep. 25, 2019

**Issued Date:** Oct. 02, 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  
Lin Kou Laboratories

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

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

**FCC Registration /** 788550 / TW0003  
**Designation Number:**



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### Release Control Record

Issue No.	Description	Date Issued
SA190909C23	Original release	Oct. 02, 2019

## 1 Certificate of Conformity

**Product:** RFID reader

**Brand:** AWID

**Test Model:** XJ-1023

**Sample Status:** Engineering sample

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

**Test Date:** Sep. 18 ~ Sep. 25, 2019

**Standards:** FCC Part 2 (Section 2.1091)

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:** Oct. 02, 2019  
Polly Chien / Specialist

**Approved by :**  , **Date:** Oct. 02, 2019  
Bruce Chen / Senior 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				
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

### 2.1 MPE Calculation Formula

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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

### 2.2 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

Freq. (MHz)	Field Strength (dBuV/m) @3m	Field Strength (dBuV/m) @10m	Electric field (dBuV/m) @0.2m	Electric field (V/m)	Limit (V/m)
13.56	62.6	52.14	120.1	1.01	60.76

\*Limit of Electric field = 824/f

Note:

- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- The UHF module and HF module cannot transmit at same time.

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