	B U RE AU VERITAS				
	RF Exposure Report				
Report No.:	SABEAD-WTW-P20080101				
FCC ID:	2AIHD1014				
Test Model:	ACC-WM11				
Received Date:	Aug. 06, 2020				
Date of Evaluation:	Sep. 01, 2020				
Issued Date:	Sep. 03, 2020				
Applicant:	Samsara Networks Inc.				
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Address.					
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch				
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FCC Registration /	788550 / TW0003				
Designation Number:					
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	AC-MRA				
	Testing Laboratory 2021				
This report is for your exclusive use. Any only with our prior written permission. The	copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted is report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this				

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.



# Table of Contents

Relea	se Control Record	3
1	Certificate of Conformity	4
2	RF Exposure	5
2.2 2.3	Limits for Maximum Permissible Exposure (MPE) MPE Calculation Formula Classification Calculation Result of Maximum Conducted Power	. 5 . 5



# **Release Control Record** Description Date Issued Issue No. SABEAD-WTW-P20080101 **Original Release** Sep. 03, 2020



1 Certificate of	Certificate of Conformity		
Produ	uct:	Industrial LoRaWAN node	
Bra	nd:	Samsara	
Test Mo	del:	ACC-WM11	
Sample Stat	tus:	Engineering Sample	
Applica	ant:	Samsara Networks Inc.	
Date of Evaluati	ion:	Sep. 01, 2020	
Standar	rds:	FCC Part 2 (Section 2.1091)	
	eferences Test Guidance :	KDB 447498 D01 General RF Exposure Guidance v06	
Guidan	Ce :	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.

Approved by :

, Date: Sep. 03, 2020

Dylan Chiou / 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							
0.3-1.34	614	1.63	(100)*	30			
1.34-30	824/f	2.19/f	(180/f²)*	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**.

### 2.4 Calculation Result of Maximum Conducted Power

Band	Frequency Band	Max Power	Antenna Gain	Distance	Power Density	Limit
	(MHz)	(dBm)	(dBi)	(cm)	(mW/cm <sup>2</sup> )	(mW/cm <sup>2</sup> )
LoRaWAN	902.3~914.9	18.87	2.01	20	0.024	0.60

Note:

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

2. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible

### Therefore the maximum calculations of above situations are less than the "1" limit.

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