

# FCC MPE REPORT

## Certification

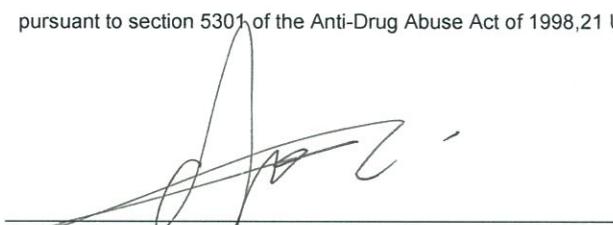
**Applicant Name:**  
WISOL CO., LTD**Address:**  
531-7, Gajang-ro, Osan-si Gyeonggi-do, 18103, Korea**Date of Issue:**

July 27, 2017

**Test Site/Location:**HCT CO., LTD., 74, Seoicheon-ro 578beon-gil,  
Majang-myeon, Icheon-si, Gyeonggi-do, 17383,  
Rep. of KOREA**Report No.:** HCT-R-1707-E010**HCT FRN:** 0005866421**FCC ID:** 2ABA2SFM11R2D**APPLICANT:** WISOL CO., LTD**Model(s):** SFM11R2D**EUT Type:** Sigfox module

The measurements shown in this report were made in accordance with the procedures specified in §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)



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**Approved by : Jong Seok Lee**  
**Manager of Telecommunication testing center**

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## Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1707-E010	July 27, 2017	- First Approval Report

## RF Exposure Statement

### 1. LIMITS

According to §1.1310 and §2.1091 RF exposure is calculated.

#### (B) Limits for General Population/Uncontrolled Exposures

Frequency range (MHz)	Electric field Strength (V/m)	Magnetic field Strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
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. MAXIMUM PERMISSIBLE EXPOSURE Prediction

Prediction of MPE limit at a given distance

$$S = PG/4\pi R^2$$

S = Power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

### 3.RESULTS

Max Peak output Power at antenna input terminal	23.123	dBm
Max Peak output Power at antenna input terminal	205.258	mW
Prediction distance	20.000	cm
Prediction frequency	902.138	MHz
Antenna Gain(typical)	2.100	dBi
Antenna Gain(numeric)	1.622	-
Power density at prediction frequency( S)	0.066226	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.000	mW/cm <sup>2</sup>