

## WH Technology Corp. Date of Issue: Sep. 23, 2019 Report No.: WH-FCC-R19071901-1

### **Radio Frequency Exposure**

### **EUT INFORMATION**

FCC ID	H5OTR75		
EUT	Car alarm 2 way main unit		
Frequency band (Operating)	908.3 MHz ~ 923.783 MHz		
Max. output power	ut power 17.29 dBm		
Antenna gain (Max)	3.1 dBi		

According to KDB 447498 D01 and FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency Radiation as specified in § 1.1307(b).

Limits for Maximum Permissible Exposure (MPE)

Frequency	Electric Field	Magnetic Field	Power	Average Time			
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm <sup>2</sup> )	Average Time			
(A) Limits for Occupational/Control Exposures							
300-1500		1	F/300	6			
1500-100000		-1	5	6			
(B) Limits for General Population/Uncontrol Exposures							
300-1500		-	F/1500	6			
1500-100000			1	30			

#### **TEST RESULT**

The modular use shall be at least 20cm distance away from human body. MPE Calculation Method

$$E (V/m) = \sqrt{30*P*G}$$

Power Density = Pd (mW/cm<sup>2</sup>) =  $E^2/3770$ 

Combine these two formulas can be changed to

 $Pd = (30*P*G) / (3770*d^2)$ 

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#### Note:

- 1. "E" means Electric field (V/m).
- 2. "P" means Peak RF output power (W).
- 3. "G" means EUT Antenna numeric gain (numeric).
- 4. "d" means the minimum mobile separation distance is 0.2m between radiator and human body.

 $G=10^{(3.1/10)}=2.041$ 

Channel	Frequency (MHz)	Output Power to Antenna (dBm)	Tune-up power (dBm)	Power Density (mW/cm²)	Limit of Power  Density  (mW/cm²)
1	908.3	17.29	18±1	0.0323	0.605
13	915.444	16.69	17±1	0.0256	0.61
25	923.783	14.72	15±1	0.0162	0.615

Tested By: Reviewed by:

Sep. 23, 2019

(Date)

Bing / Engineer

Sep. 23, 2019

(Date)

Bell / Manager

FCC Designation Number: TW2954