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# **RF Exposure Evaluation Report**

**Product**: Home Security System

Trade mark : SENS8

Model/Type reference : SHS1-US

Serial Number : N/A

Report Number : EED32J00129302

FCC ID : 2AM3ESHS1

Date of Issue : Aug. 2, 2017

**Test Standards** : 47 CFR Part 1.1307 47 CFR Part 1.1310

KDB 447498 D01v06

Test result : PASS

### Prepared for:

Suzhou RippleInfo Co., Ltd 209 Zhuyuan Rd, Suzhou, China

### Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

TEL: +86-755-3368 3668 FAX: +86-755-3368 3385

Tested By:

Tom - chen
Tom chen (Test Project)

Max liang (Project Engineer)

Max. Liano

Reviewed by:

Kevin yang (Reviewer)

Sheek Luo (Lab supervisor)

Date:

Hotline: 400-6788-333

Aug. 2, 2017

Check No.:2827589596

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# 2 Version

Version No.	lo. Date		Description				
00	Aug. 2, 2017		Original				
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### 4 General Information

### 4.1 Client Information

Applicant:	Suzhou RippleInfo Co., Ltd.		
Address of Applicant: 209 Zhuyuan Rd, Suzhou, China		- W S	
Manufacturer: Suzhou RippleInfo Co., Ltd.			
Address of Manufacturer: 209 Zhuyuan Rd, Suzhou, China		6	
Factory:	Eolane(China) Co., Ltd.		
Address of Factory: #49, 9 Dongfu Road, Dongjing Industrial Park, SIP, Suzhou, China			

## 4.2 General Description of EUT

Product Name:	Home Security Sy	ystem				
Model No.:	SHS1-US					
Trade Mark:	SENS8					
EUT Supports Radios application:	Wlan 2.4GHz 802	Wlan 2.4GHz 802.11b/g/n(HT20)/n(HT40)				
	Battery	3.7V/750mAh				
Power Supply:	AC Adapter	MODEL:AK12WG-0500200UU Input: 100V-240V,50Hz/60Hz,0.3A Output: 5V=-2A				

# 4.3 Product Specification subjective to this standard

<u> </u>						
Modulation Type:	IEEE for 802.11b: DSSS IEEE for 802.11g :OFDM		(30)			
Woodington Typo.	IEEE for 802.11n(HT20 and HT40) : OFDM					
Sample Type:	Fixed production					
Antenna Type:	Dipole					
Antenna Gain:	2.63dBi	/'&				
Test Voltage:	AC 120V,60Hz	(6:22)				
Sample Received Date:	Jun. 24, 2017					
Sample tested Date:	Jun. 24, 2017 to Aug. 2, 2017					
The tested sample and the	e sample information are provided by the client.		_05			

### 4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 3368 3668 Fax:+86 (0) 755 3368 3385

No tests were sub-contracted.











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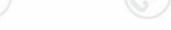




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### 4.5 Deviation from Standards

None.





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### 4.6 Abnormalities from Standard Conditions

None.

# 4.7 Other Information Requested by the Customer

None.













































































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# 5 RF Exposure Evaluation

### 5.1 RF Exposure Compliance Requirement

### **5.1.1 Limits**

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 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> )	Averaging time (minutes)
(A) Lim	its for Occupational	/Controlled Exposure	es	
0.3–3.0	614 1842/f	1.63 4.89/f	*(100) *(900/f²)	6
30–300	61.4	0.163	1.0 f/300	6
1500-100,000			5	6
(B) Limits	for General Populati	on/Uncontrolled Exp	osure	
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

A rough estimation of the expected exposure in power flux density on a given point can be made with the following equation:

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

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

R= distance to the centre of radiation of the antenna

EIRP = P\*G

The antenna of the product, under normal use condition is at least 20 cm away from the body of the user. Warning statement to the user for keeping at least 20cm separation distance and the prohibition of operating to a person has been printed on the user's manual. Therefore, the S of the device is calculated with R=20cm, and if it is below the limit S, then we can conclude the device complies with the rules.

### 5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually.











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5.1.3 EUT RF Exposure Evaluation

Antenna Gain: 2.63dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Frequency (MHz)	Max Conducted Peak Output Power(dBm)	Gain (dBi)	EIRP* (dBm)	EIRP (mW)	R (cm)	S (mW/cm²)	Limit (mW/cm²)	Result
Highest	2462	22.71	2.63	25.34	341.98	20	0.068	1.0	Pass































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### **PHOTOGRAPHS OF EUT Constructional Details**

Refer to Report No. EED32J00129301 for EUT external and internal photos.

### \*\*\* End of Report \*\*\*

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