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Report No.: 1603RSU00402  
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## RF Exposure Evaluation Declaration

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**FCC ID:** IK4RVCW

**APPLICANT:** Shenzhen Auto-vox Technology Co., Ltd.

**Application Type:** Certification

**Product:** Reverse Camera

**Model No.:** RVC-W1, RVC-W2, RVC-W3, RVC-W4, WTR-01

**Brand Name:** AUTO-VOX

**FCC Classification:** FCC Part 15 Spread Spectrum Transmitter(DSS)

Reviewed By :

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The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

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## Revision History

Report No.	Version	Description	Issue Date
1603RSU00402	Rev. 01	Initial report	03-30-2016

## 1. PRODUCT INFORMATION

### 1.1. Feature of Equipment under Test

Product Name	Reverse Camera
Model No.	RVC-W1, RVC-W2, RVC-W3, RVC-W4, WTR-01

### 1.2. Product Specification Subjective to this Report

Bluetooth Frequency	2409.5~2465.5MHz
Type of modulation	FHSS
Data Rate	4Mbps(GFSK)
Antenna Type	Dipole Antenna
Antenna Gain	2.5dBi

## 2. RF Exposure Evaluation

### 2.1. Limits

According to FCC 1.1310: 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 1.1307(b)

#### 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)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	f/1500	6
1500-100,000	--	--	1	30

f= Frequency in MHz

Calculation Formula:  $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$

17.2

52.480746024977259736431215702241

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

$P_d$  is the limit of MPE, 1mW/cm<sup>2</sup>. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance  $r$  where the MPE limit is reached.

## 2.2. Test Result of RF Exposure Evaluation

Product	Reverse Camera
Test Item	RF Exposure Evaluation

Antenna Gain: Refer to Clause 1.2 of antenna description.

Test Mode	Frequency Band (MHz)	Maximum Output Power (dBm)	Power Density at R = 20 cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
Frequency Hopping	2409.5~2465.5	14.70	0.0104	1

### CONCLUSION:

The Max Power Density at R (20 cm) =  $0.0104\text{mW/cm}^2 < 1\text{mW/cm}^2$ .

So the EUT complies with the requirement.

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