




## RF Exposure Evaluation Declaration


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**FCC ID:** T2C-CPW90  
**APPLICANT:** YEALINK(XIAMEN) NETWORK TECHNOLOGY  
CO.,LTD

**Application Type:** Certification  
**Product:** CP Wireless Expansion Mic  
**Model No.:** CPW90  
**Brand Name:** YEALINK  
**FCC Classification:** Digital Transmission System (DTS)  
FCC Part 15 Spread Spectrum Transmitter(DSS)  
**Test Procedure(s):** KDB 447498 D01v06  
**Test Date:** May 05 ~ June 25, 2017

Reviewed By : 

( Sunny Sun )

Approved By : 

( Marlin Chen )



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.



## Revision History

Report No.	Version	Description	Issue Date	Note
1705RSU00902	Rev. 01	Initial report	06-30-2017	Valid

## 1. PRODUCT INFORMATION

### 1.1. Equipment Description

Product Name:	CP Wireless Expansion Mic
Model No.:	CPW90
Brand Name:	YEALINK
DECT Specification:	DECT 6.0
Frequency Range	1921.536 ~ 1928.448MHz
Type of Modulation	Digital (Gaussian Frequency Shift Keying)
Antenna Gain	0dBi

## 2. RF Exposure Evaluation

### 2.1. Limits

#### FCC Rules:

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

**Formula as follows:**

f= Frequency in MHz

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

Where

$P_d$  = power density in  $mW/cm^2$

$P_{out}$  = 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,  $1mW/cm^2$ . 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	CP Wireless Expansion Mic
Test Item	RF Exposure Evaluation

Antenna Gain: Refer to Section 1.1

### For DECT Band:

Test Mode	Frequency Band (MHz)	Maximum Output Power (dBm)	Power Density at $r = 20 \text{ cm}$ ( $\text{mW}/\text{cm}^2$ )	FCC Limit ( $\text{mW}/\text{cm}^2$ )
DECT 6.0	1921.536 ~ 1928.448	16.31	0.0085	1

### CONCLUSION:

The EUT complies with the FCC requirement.

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