



## RF Exposure Evaluation Declaration

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**FCC ID:** T2C-CP920  
**APPLICANT:** YEALINK(XIAMEN) NETWORK TECHNOLOGY  
CO.,LTD

**Application Type:** Certification  
**Product:** HD IP Conference Phone  
**Model No.:** CP920  
**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 05, 2017

Reviewed By : Sunny Sun  
( Sunny Sun )  
Approved By : Marlin Chen  
( 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  |
|--------------|---------|----------------|------------|-------|
| 1707RSU03506 | Rev. 01 | Initial report | 09-01-2017 | Valid |
|              |         |                |            |       |

## 1. PRODUCT INFORMATION

### 1.1. Equipment Description

|                      |                        |
|----------------------|------------------------|
| Product Name:        | HD IP Conference Phone |
| Model No.:           | CP960                  |
| Brand Name:          | YEALINK                |
| Wi-Fi Specification: | 802.11a/b/g/n/ac       |
| Bluetooth Version:   | v3.0 + HS, v4.0        |
| 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   | HD IP Conference Phone |
| Test Item | RF Exposure Evaluation |

Antenna Gain: Refer to Section 1.1

### For Wi-Fi Band:

| Test Mode   | Frequency Band (MHz) | Maximum Average Output Power (dBm) | Power Density at r = 20 cm (mW/cm <sup>2</sup> ) | FCC Limit (mW/cm <sup>2</sup> ) |
|-------------|----------------------|------------------------------------|--------------------------------------------------|---------------------------------|
| 802.11b/g/n | 2412 ~ 2462          | 14.15                              | 0.0052                                           | 1                               |

### For Bluetooth Band:

| Test Mode     | Frequency Band (MHz) | Maximum Output Power (dBm) | Power Density at r = 20 cm (mW/cm <sup>2</sup> ) | FCC Limit (mW/cm <sup>2</sup> ) |
|---------------|----------------------|----------------------------|--------------------------------------------------|---------------------------------|
| BLE           | 2402 ~ 2480          | 8.01                       | 0.0013                                           | 1                               |
| DH5/2DH5/3DH5 | 2402 ~ 2480          | 8.87                       | 0.0015                                           | 1                               |

### CONCLUSION:

Both of the WLAN, Bluetooth & DECT can transmit simultaneously. Therefore, the Max Power Density at r (20 cm) =  $0.0052\text{mW/cm}^2 + 0.0015\text{mW/cm}^2 = 0.0067\text{mW/cm}^2 < 1\text{mW/cm}^2$ .

So the EUT complies with the FCC requirement.

The End