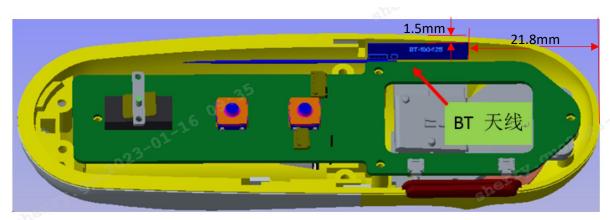
文档密级: Internal

# Changhong controller Antenna describe

### 1. Antenna describe:

Antenna plate	Monopole antenna	
Make name / model name	FPC antenna	
Antenna gain	1.51dBi @2440MHz BLE	
Frequency range	2400MHz~2500MHz	
Connector type	contact	
Antenna Manufacturer	INPAQ TECHNOLOGY(SUZHOU) CO., LTD	
Model No.	WAG-F-BT-0103	
Antenna Manufacturer address	Panyang Industrial Park, Huangdai Town, Xiangcheng District, Suzhou City, Jiangshu, P.R. China	

## 2.External view drawing:



Antenna position

### 3.Antenna Gain

Antenna	Freq(MHz)	Effi (dB)	Effi (%)	Peak Gain (dBi)
DIE	2400	-3.6	44. 1	1.23
BLE	2440	-3.1	49.3	1. 51

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2480	-3.4	<b>45.</b> 3	1.06

Table 1: Antenna Gain and Efficien

#### 3.1 Antenna Radiation Pattern

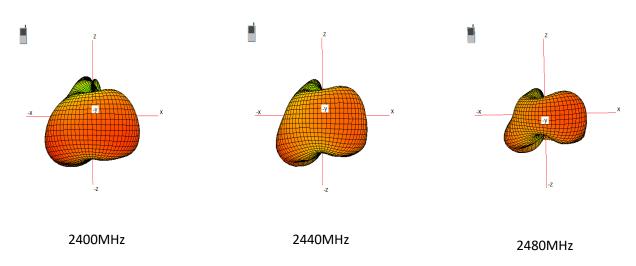
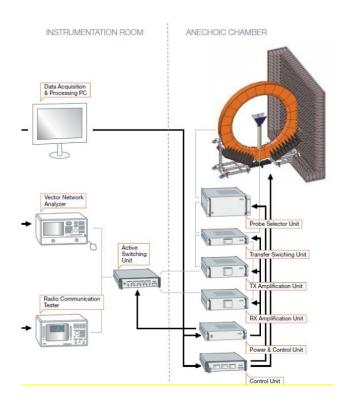


Figure 1: Radiation Patter

### 4. Description of Radiated measurement

#### 4.1Test Procedure

Antennas gain measurement are done with the test model fully assembled. A 50 Ohm coaxial cable is connected to the switch in contact with the antenna on the main board. The other end of the 50 Ohm coaxial cable is connected to a network analyzer. The OTA Chamber is calibrated using dipoles. The diagram of the OTA test system is as follow:



## 4.2Test Equipment

No	Test Equipment	Model
1	OTA Chamber	GTS1800
2	Vector Network Analyzer	E5071C
3	Calibration Time	2023.01.01~2023.03.01

## 4.3Test Setup

