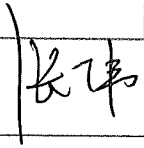


Antenna Specifications

CUSTOMER		星辰	
CS P/N		TB 摇杆	
HX P/N		<u>A72-003-40-0.81 同轴线</u>	
Checked by(RF)	Checked by(ME)	Checked by(QA)	Approval led by
Customer Approval			

2022.9.6

星辰料号: E-RF1822001-F

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1. General Description

This document provides the antenna specifications on electric, mechanic and reliability. The testing conditions and related pictures are also included.

1.1 Print Acceptance

Samples and Antenna Specifications are to be sent to customer. When they are approved, the approval form should be completed, signed, and sent back to Hengxiangtong before further mass production batches can be delivered.

1.2 Coordinate System

The coordinate system for the phone is defined as follows:

- Origin in center of gravity.
- Positive X axis is perpendicular to, and directed from, front plane.
- Positive Y axis is perpendicular to, and directed from, right side plane (as seen from front).
- Positive Z axis is perpendicular to, and directed from, top plane.

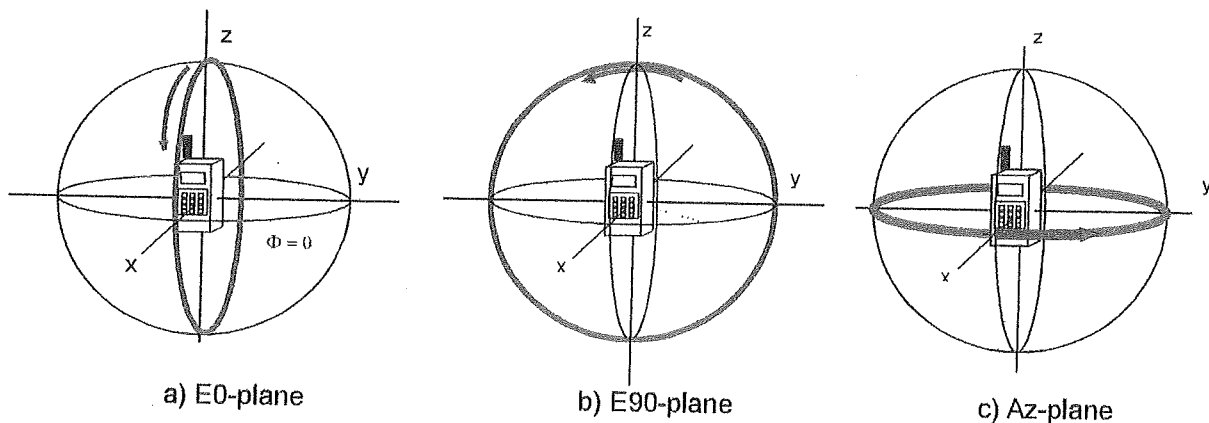


Figure 1-1 The coordinate system for the phone

2. Specifications

This report mainly provides the testing conditions of various electric and structural performance parameters for cell phone antenna ---- TB 摇杆. Figure 2-1 shows the antenna designed by HX & The fixturing of TB 摇杆

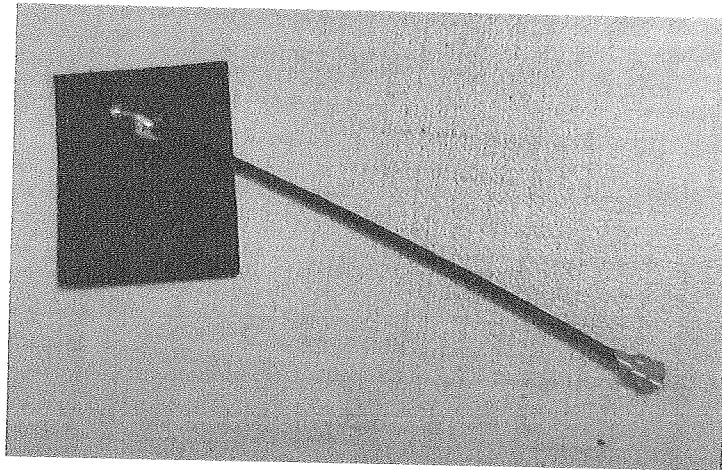


Figure 2-1 The antenna designed by HX & The fixturing of TB 摇杆



Antenna Specifications

SHENZHEN HENGXIANGTONG ANTENNA TECHNOLOGY CO., LTD.

2.1 Frequency Band

Band	Frequency(MHz)
2.4G	2400-2500

2.2 Impedance

2.2.1 Nominal

Nominal Impedance(including matching circuit) : 50 ohms

2.2.2 Matching Circuit

The matching circuit is as Figure 2-2.

无

Figure 2-2: Matching circuit

2.3 Passive Measurements

2.3.1 VSWR & Gain Specifications

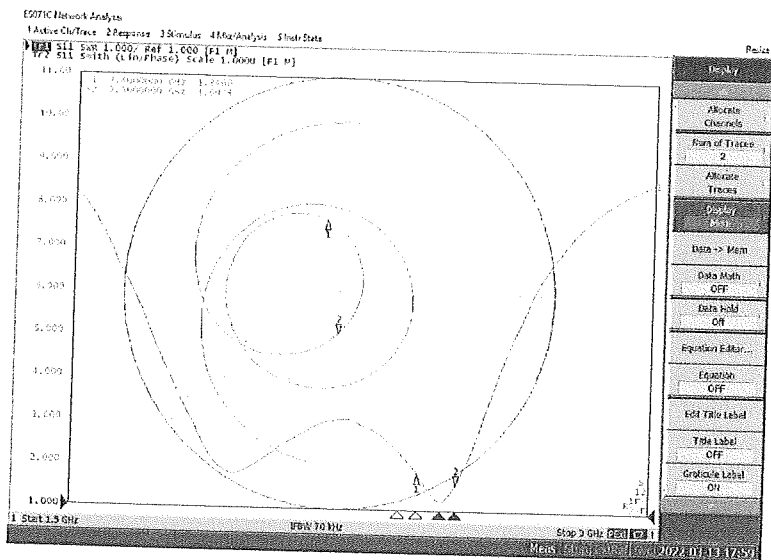
VSWR		GAIN	
Freq. Band	SPEC	Freq. Band	SPEC
2400-2500MHz	≤ 2.0	2400-2500	$\geq 2\text{dBi}$

2.3.2 S11 of the Typical Sample

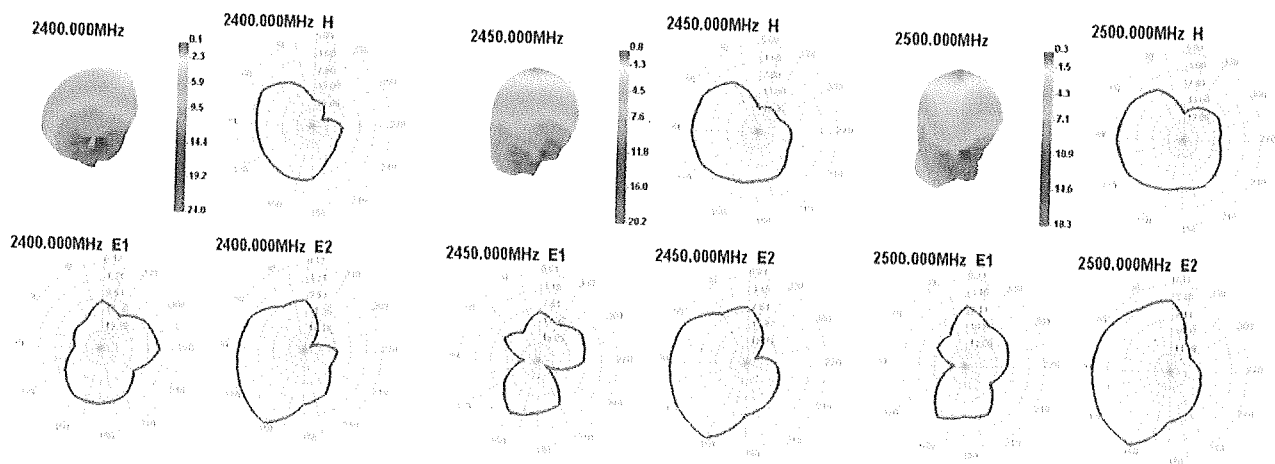
Freq (MHz)	2400	2450	2500
RL	-11.9	-13.4	-10.8
VSWR	1.7	1.3	1.8

Add: 3/F,Building4,XinJianXing Industrial Park,Yangguang Industrial Zone, Xili Town, Nanshan District, ShenZhen, P.R.China,
Tel. +86-755-27657751 Fax +86-755-27599500

Antenna Specifications



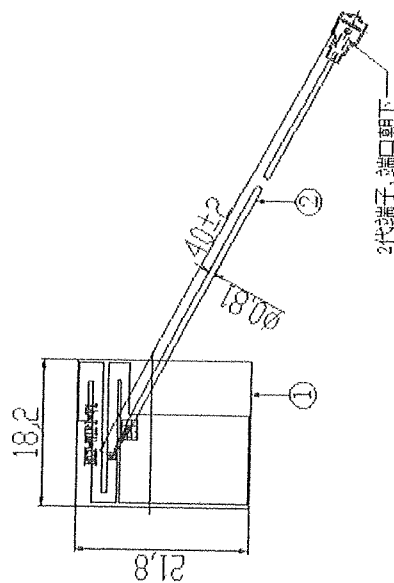
Freq (MHz)	Effi (%)	Gain (dBi)
2400	45.77	2.14
2410	42.21	2.33
2420	43.78	2.38
2430	44.88	2.38
2440	45.55	2.23
2450	47.16	2.81
2460	47.2	2.74
2470	48.4	2.7
2480	47.69	2.47
2490	48.98	2.52
2500	48.77	2.33



THE

3. Mechanical Properties

②	同轴线	A72-003-T-40	CU
①	FPC	A72-003-F	PI+CU
序号	名称	编号	材质



 Third Angle	0~10	±0.10	○	0.02
	10~18	±0.15	◎	0.03
	18~30	±0.20	⊥	0.02
	30~40	±0.30	▱	0.04
	40~	±0.50	Angle	±0.5°
*****	DATE	BY	IYT	2022.09-06
见附表			审核	CHECKED BY
01			审核	APPROVED BY

	天津源天纸业股份有限公司 天津市津南区津南四道与津南四道交口 天津源天纸业股份有限公司	三 号 纸 型 号 F7000-1200	组 装 图	三 号 纸 型 号 A72-003-40	三 号 纸 型 号 0.81 回 扣 纸 型 号	三 号 纸 型 号 三 号 纸 型 号
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OK 张伟 2022-9-8

2022-9-8

陳瑞市恒祥天機朱履公司

[illegible]

Address: 3/F, Building 4, XinJianXing Industrial Park, Yangguang Industrial Zone, Xili Town, Nanshan District, Shenzhen, P.R. China

Tel. +86-755-27657751 Fax +86-755-27599500



Antenna Specifications

SHENZHEN HENGXIANGTONG ANTENNA TECHNOLOGY CO., LTD.

4. Environmental Characteristic

Test Item	Test description
1. Low Temperature	Temp.: -20 °C Time: 24 hours
2. High Temperature	Temp.: 80°C Time: 24 hours
3. Salt Fog	5±0.1% Nad salt fog PH Value: 6.5-7.2 Temp: 35±1°C Time:24 hours