

深圳市河文天线技术有限公司
Shenzhen Human Communications Co ., Ltd

承 认 书

SPECIFICATION FOR APPROVL

客 户: 联达电脑（厦门）有限公司
CUSTOMER:
客户案号:
CUSTOMER P/N:
本厂编号:
OUR MODEL NO:
品 名 / 规格: MC3 ANT
SPECIFICATIONS:
样 品 数: 1 PCS
Q' TY:
日 期: 2025-04-07
DATE:

Project: MC3		Author:XIONG	File Name: MC3 ANT-APP-RA
Date: 2025-04-07			
TEST:	Language:	Check: Huang	
A	English		
Room 503, Building 211, Tairan Industrial Zone, Tairan 9th Road, Futian District, Shenzhen			
Telephone: 0755-27670950 Fax. : 0755-27886675			
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Revision History

Date	Revision	Description of Changes
2025-04-07	RA	Measured with MC3 天线 sample.

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7	RELIABILITY TESTS	错误！未定义书签。
7.1	Test content	错误！未定义书签。
7.2	Test results	错误！未定义书签。
8	CONCLUSI	错误！未定义书签。

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1 Technical Summary

This report summarizes the electrical results of the proposed antenna to support the MC3 program. We test the antenna with the latest version handset. And it seems to be acceptable.

2 General Description

2.1 Components/Part revisions

VSWR: Voltage Standing Wave Rate.

3 Mechanical Description



4 Electrical Performance

4.1 Set-up

4.1.1 VSWR

VSWR measurements (S11) were performed using an Agilent 8753D Network Analyzer and the previously described test fixture. Coaxial chokes were used to mitigate surface currents on the outside of the cabling. The testing was performed in free space.

4.1.2 Gain & Radiation Patterns

The gain of the antenna was measured in the HUMAN's anechoic chamber. Coaxial chokes on the feed cable were used to mitigate surface currents. The chamber provides less than -30 dB reflectivity from 800 MHz through 3 GHz and an 18" diameter spherical quiet zone. The measurement results are calibrated using both dipole and leaky wave horn standards.

4.1.3 Matching Circuit Description

No changed..
(原匹配无修改)

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4.2 Measurement Data

4.2.1 Active result

ANT1 Grey line(WLAN):

Frequency	Efficiency (%)	Gain (dB)	Frequency	Efficiency (%)	Gain (dB)
2400MHz	42.7	1.9	5100MHz	43.5	1.7
2420MHz	41.3	1.7	5250MHz	40.1	1.0
2440MHz	38.9	1.3	5400MHz	44.5	1.7
2460MHz	40.1	1.6	5550MHz	39.2	0.9
2480MHz	42.3	1.9	5700MHz	38.2	0.7
2500MHz	44.1	2.1	5850MHz	37.4	0.7

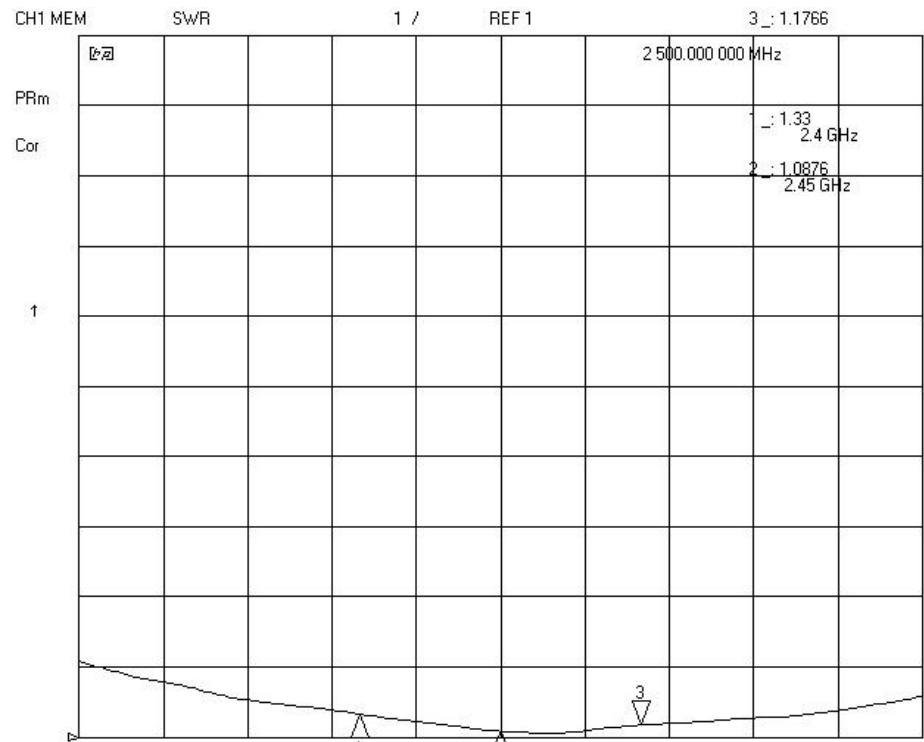
ANT2 Black line (BT/WLAN):

Frequency	Efficiency (%)	GAIN (dB)	Frequency	Efficiency (%)	Gain (dB)
2400MHz	34.6	0.8	5300MHz	28.2	0.2
2425MHz	35.5	0.8	5400MHz	30.3	0.3
2450MHz	36.4	0.9	5500MHz	31.8	0.3
2475MHz	34.6	0.8	5600MHz	30.1	0.2
2500MHz	34.5	0.8	5700MHz	31.3	0.3
5100MHz	23.9	-0.1	5800MHz	34.1	0.5
5200MHz	26.2	0.2	5900MHz	33.3	0.4

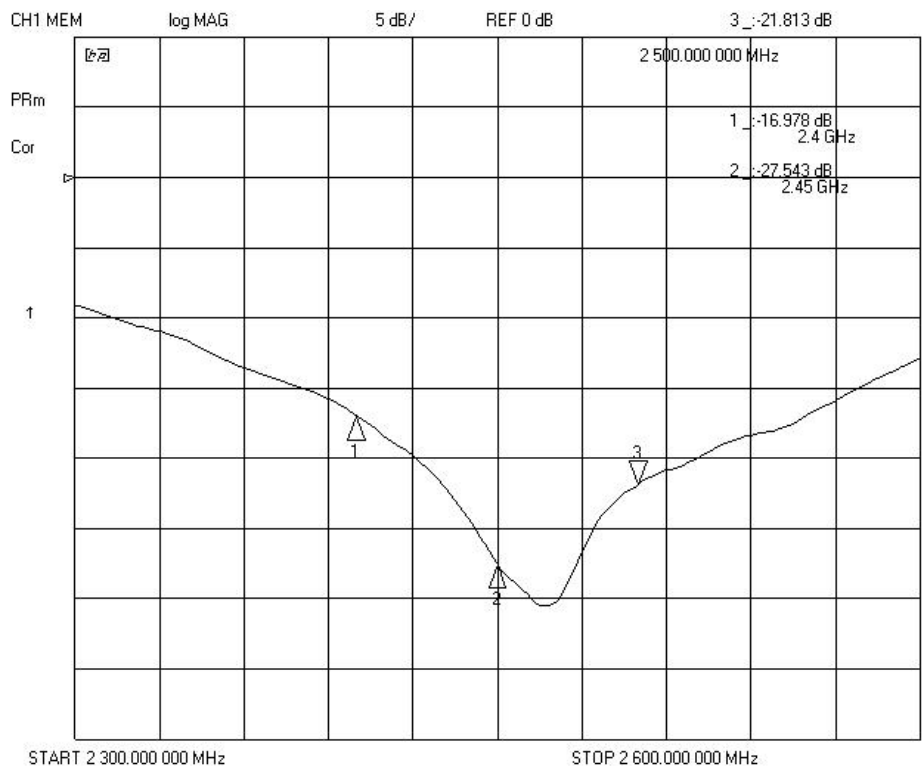
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5 Plots

5.1 VSWR (WIFI)

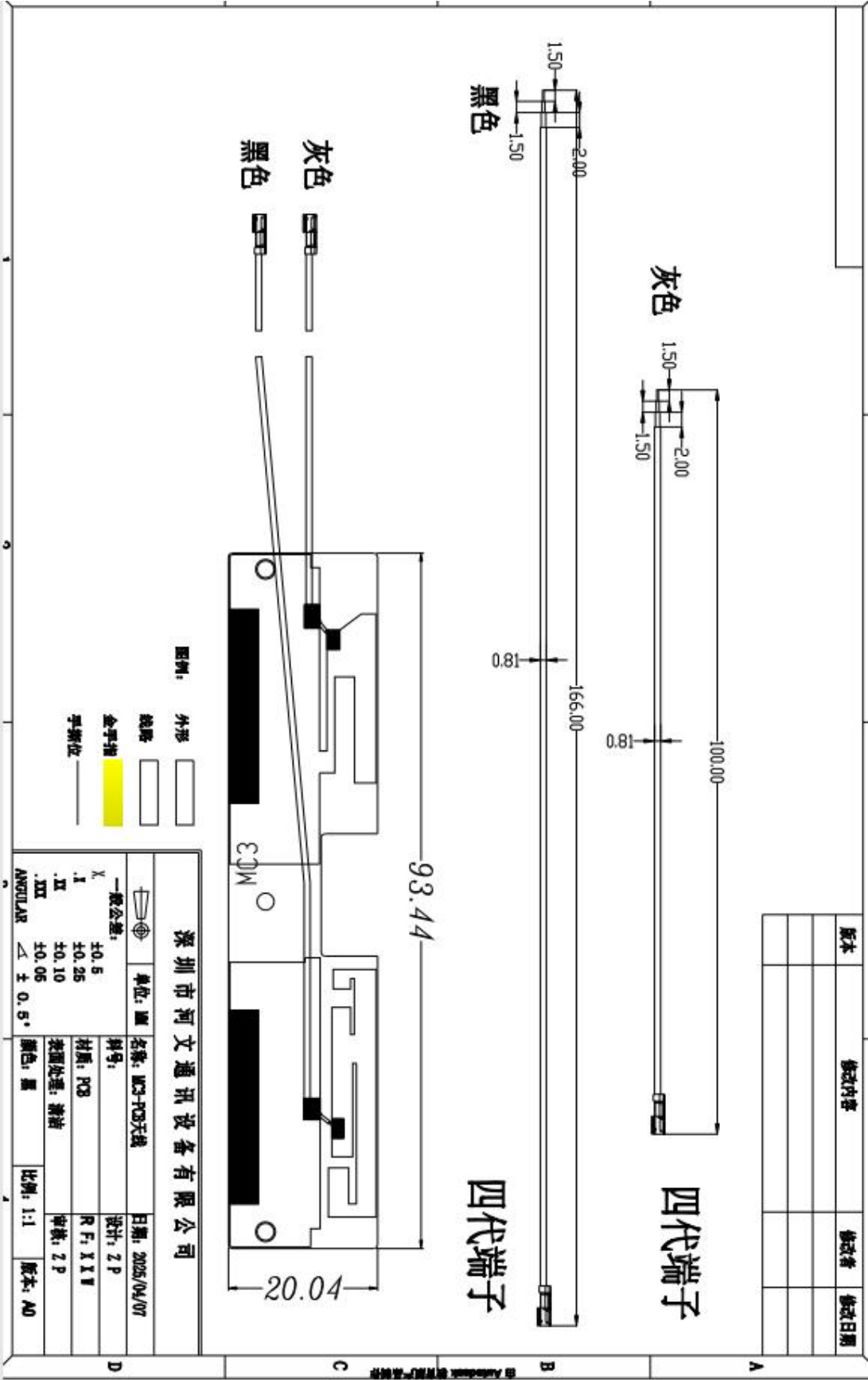


5.2 Return loss (WIFI)



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6 Mechanical drawing



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From the above test results, we can know the electrical performance of the antenna is seems good.

Human TELECOM EQUIPMENT CO.,LTD look forward to your confirmation, thank you for your cooperation !

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