

昊一源科技有限公司

编号: _____

版本: _____

Component Approval Sheet

Product Name: M71T

Part Number: 3002040261

Product Model: A6701

Vendor: SPEED

P/N: F-KA-N2-0003-000-K0

www.speed-hz.com

SPEED has possession of proprietary information provided in this presentation and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SPEED Communication Technology.

SPEED TECHNOLOGY

Manufacturer: SPEED Communication Technology Limited

Manufacturer Address: Room 202, 1F, Building A, Guoren Building,
No. 5 Keji Middle Third Road, Science Park, Yuehai Street, Nanshan District, Shenzhen.

Approval sheet of A6701-TX Internal Antenna

Customer/Project	M71T	Frequency Band	BT		
3002040261	3002040261	Version	T3.2		
Date	12/12/2024				
Material Code	F-KA-N2-0003-000-K0				
SPEED					
Checked by	RF	ERICGUO	Design by	RF	LIZHENGQUAN
	ME	ERICGUO		ME	QIUHONG
	QC	JINGCHUNMEI	Remark	ERICGUO	
Customer					
Date					
Confirmed by	RF				
	ME				
Remark					

www.speed-hz.com

SPEED has possession of proprietary information provided in this presentation and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SPEED Communication Technology.

Index

1. Indication.....	2
2.1 Matching Circuit Description	3
2.2.1 VSWR.....	3
2.2.2 Gain & Radiation Patterns.....	4
3. Suggestion and Conclusion	5
4. Attachment	6
4.1 Appearance drawing(2D).....	6
4.2 Appearance drawing(2D&3D).....	7

www.speed-hz.com

SPEED has possession of proprietary information provided in this presentation and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SPEED Communication Technology.

1. Indication

This report summarizes the electrical performance structure diagram confirmed by the user of the lower antenna of the 6701 TX project. The antenna bracket is a component inside the microphone (see Figure 1).

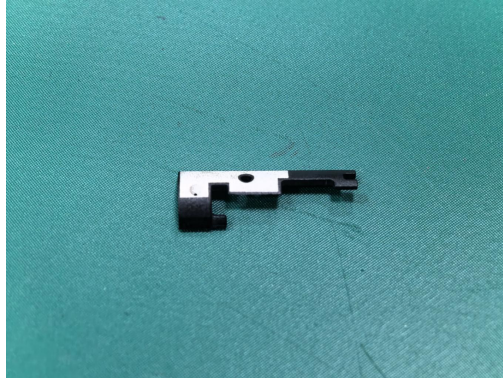
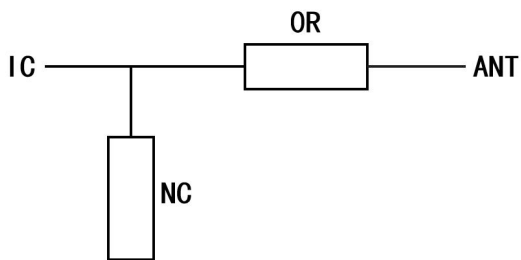


Figure 1: Proposed Antenn

2. Matching Circuit Description

Matching circuit provided by customers.



www.speed-hz.com

SPEED has possession of proprietary information provided in this presentation and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SPEED Communication Technology.

2.2.1 VSWR

Use Agilent 5071C network analyzer and the described test fixture to measure VSWR (S11).
Testing in frees pace.



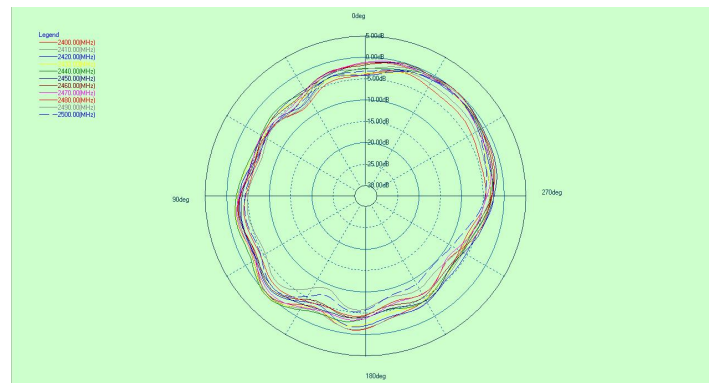
www.speed-hz.com

SPEED has possession of proprietary information provided in this presentation and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SPEED Communication Technology.

2.2.2 Gain & Radiation Patterns

The gain and efficiency of the antenna are measured in a microwave anechoic room system. The measurement range from 600MHz to 6GHz can be provided. The measurement results are calibrated by dipole and horn standards.

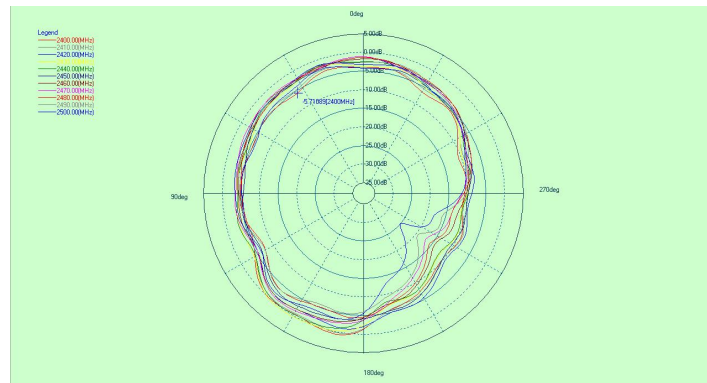
Frequency(MHZ)	Efficiency(db)	Efficiency(%)	Peak Gain (dbi)
2400	-4.22	37.9	1.98
2410	-3.85	41.3	2.22
2420	-3.34	46.3	2.59
2430	-3.27	47.1	2.75
2440	-3.35	46.2	2.56
2450	-3.35	46.3	2.36
2460	-3.59	43.8	2.10
2470	-3.86	41.1	1.88
2480	-3.91	40.6	1.56
2490	-4.21	38	1.32
2500	-4.57	34.9	1.12



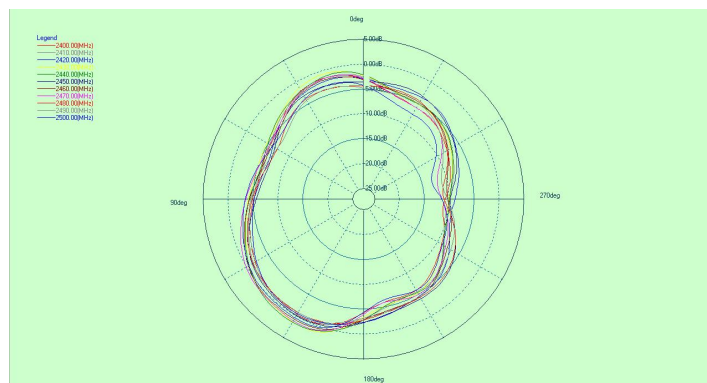
Phi=0

www.speed-hz.com

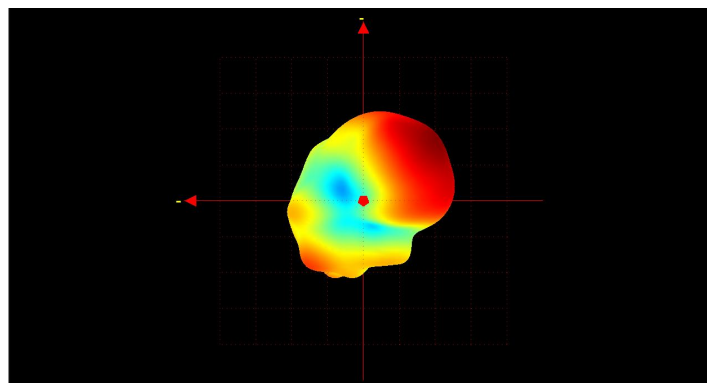
SPEED has possession of proprietary information provided in this presentation and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SPEED Communication Technology.



$\Phi=90^\circ$



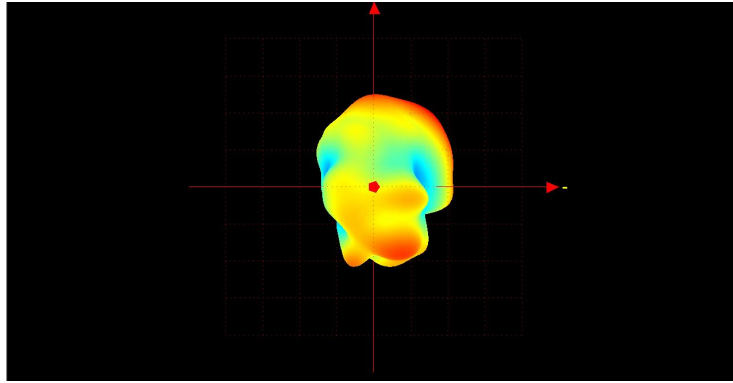
$\Theta=90^\circ$



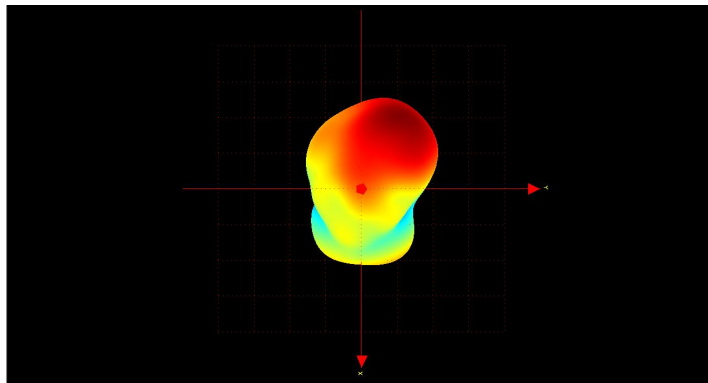
3D:XOZ

www.speed-hz.com

SPEED has possession of proprietary information provided in this presentation and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SPEED Communication Technology.



3D:YOZ



3D:XOY

3. Suggestions and Conclusion

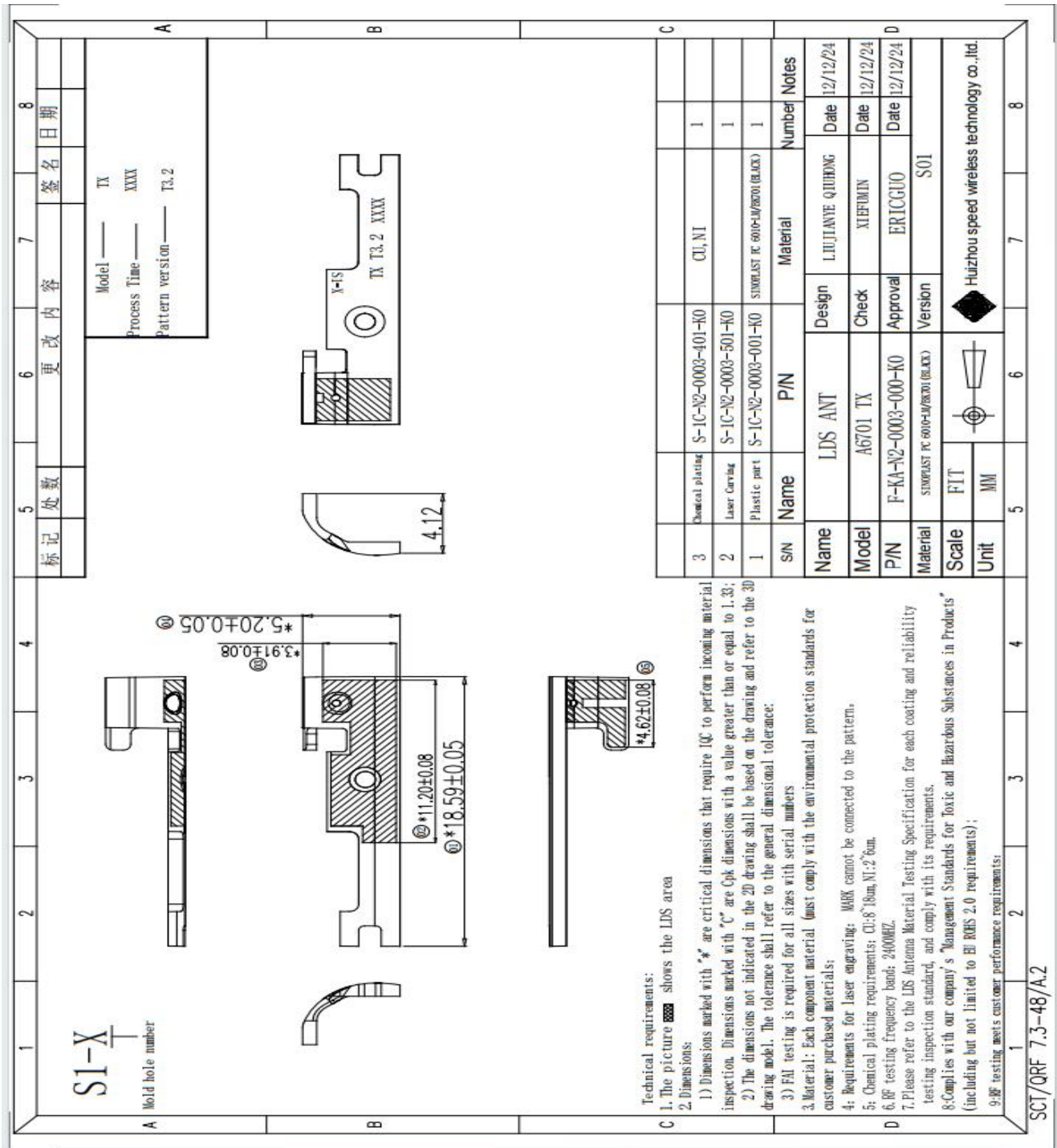
This paper summarizes the electrical performance and structure diagram of the antenna confirmed by the customer, and tests the antenna with the prototype microphone test fixture provided by the customer.

4.Attachment

www.speed-hz.com

SPEED has possession of proprietary information provided in this presentation and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SPEED Communication Technology.

4.1 Appearance drawing:



www.speed-hz.com

SPEED has possession of proprietary information provided in this presentation and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SPEED Communication Technology.

4.2 Appearance drawing(2D/3D)



A6701 TX ASM F-KA-N2-0003-
1111.stp 000-K0 A6701 T



www.speed-hz.com

SPEED has possession of proprietary information provided in this presentation and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SPEED Communication Technology.