

SPECIFICATION FOR APPROVALS

CUSTOMER: HKC

CUS PARTNO: 260504003730

PARTNAME: Bluetooth antenna

TPTPART NO: WWXL6009189

Version: 1.0

CUS STAMP:

DATE:

Purchasing Dept	Engineering Dept	Approval

WWXL:

Date: November 03, 2022

Engineering Dept	Sales Dept	Approval
Hongbo Dai		Xianyan Tong

WWXL 万物相连 Shenzhen all things connected Communication Co.,Ltd.
All things connected Communication Co.,Ltd.

Please return one specification or one copy of it with your chop and signature of approval and retain the others for your record. In the event of an order being placed for this part number before the chop and signed with specification (or copy) is returned and without special explanation, it will be assumed that full approval have been given.

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2、Product pictures



3、Parts list

No.	Name of material	Material Code	Name of material
1	RF terminal	WWXL I-PX001-1	1.13 terminals
2	Coaxial cable	WWXLGCX044	1.13 gray, L = 260mm
3	Heat shrinkable tube	WWXLRSTG050	The diameter is 5.0 mm, L = 60 mm
4	Brass pipe	WWXLTG073	4.4 mm in diameter and 24.5 mm in length

4、Test parameters

Name Bluetooth antenna (WWXL6009189)		ModelType	
ELECTRICAL SPECTFICATIONS		MECHANICAL SPECTFICATIONS	
FrenquencyRange 2400-2500MHz		Dimensions	Ø5.0*260MM
Impedance	50Ω	Connector	IPEX
VSWR	≤2.5	linelength	260 ± 5mm 1.13 dark grey
Gain	2.71dBi	Efficiency	
Polarization	linear Vertical	WorkingTemperature	-45°C - +85°C
Radiation	Omnidirectional	Limit Temperature	-45°C - +85°C

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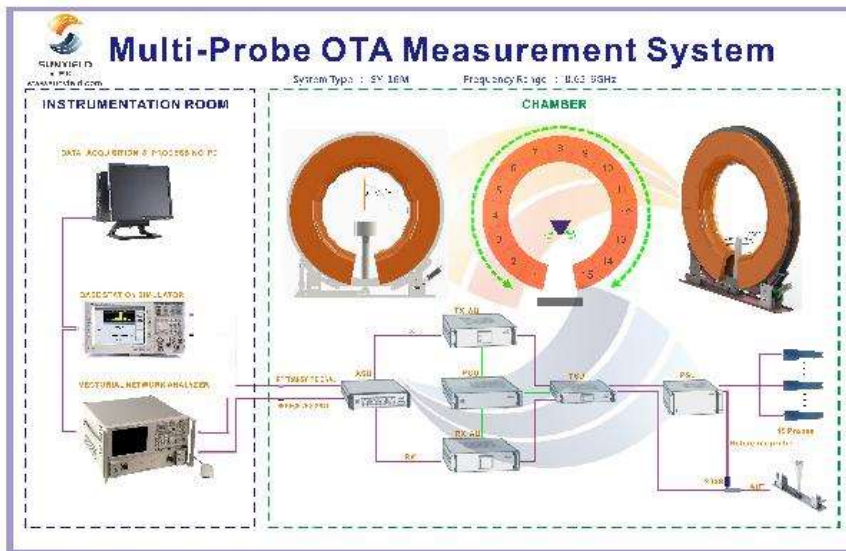
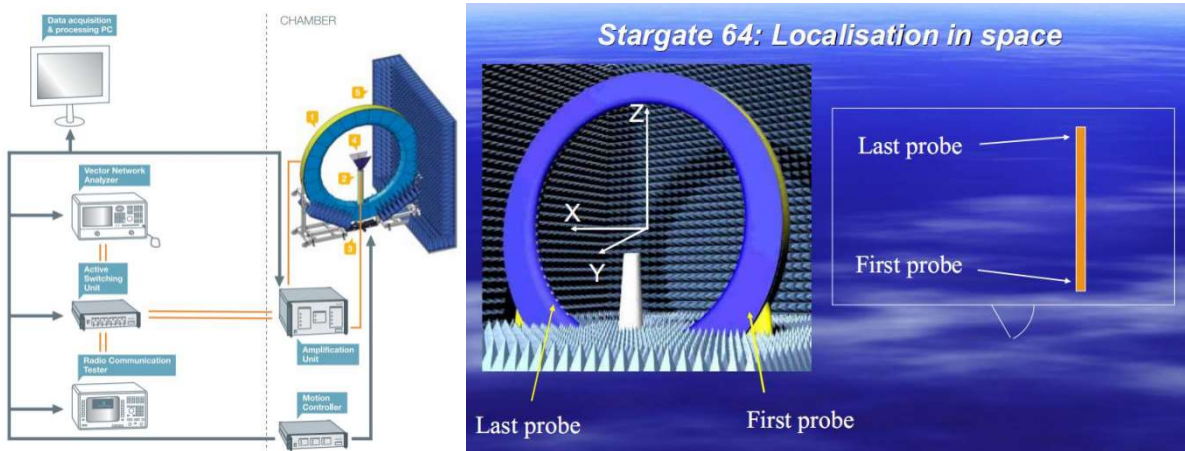
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5、Antenna test environment

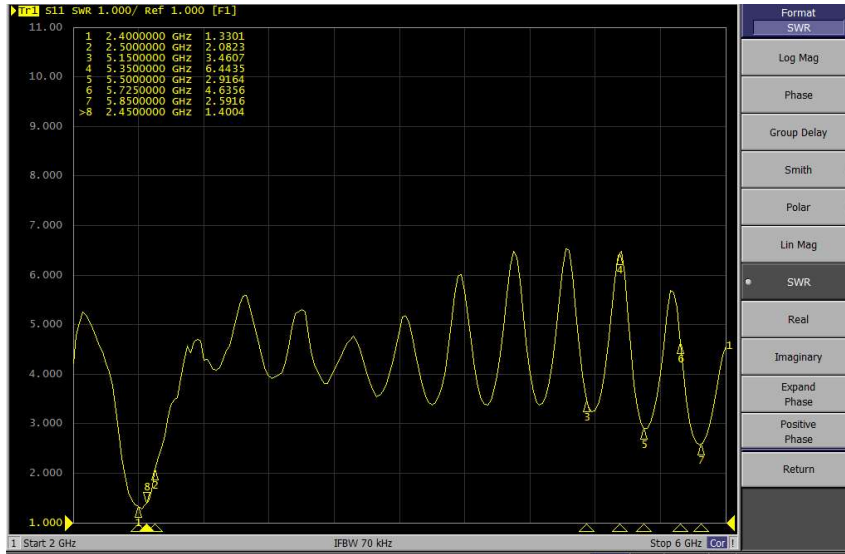


test macro:	SY-16M Antenna measurement system
testing environment:	Temperature 22°C ±3°C, humidity 50% ±15%
testing equipment:	Agilent 5071C Agilent 8960 Comprehensive measuring instrument Agilent CMW500 4G Comprehensive measuring instrument

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6、Antenna Passive Parameters:

1、VSWR:



Frequency (MHz)	2400	2450	2500	5150	5350	5500	5725	5850
VSWR	1.33	1.40	2.08	/	/	/	/	/

2. Gain and Efficiency: (The whole machine tests the antenna)

frequency (MHz)	gain (dBi)	efficiency (%)
2400	2.71	49.28
2410	2.43	48.48
2420	1.98	46.06
2430	1.86	44.87
2440	2.61	41.63
2450	2.43	39.07
2460	2.4	36.51
2470	2.15	33.73
2480	2.63	30.54
2490	2.43	28.41
2500	2.39	26.31

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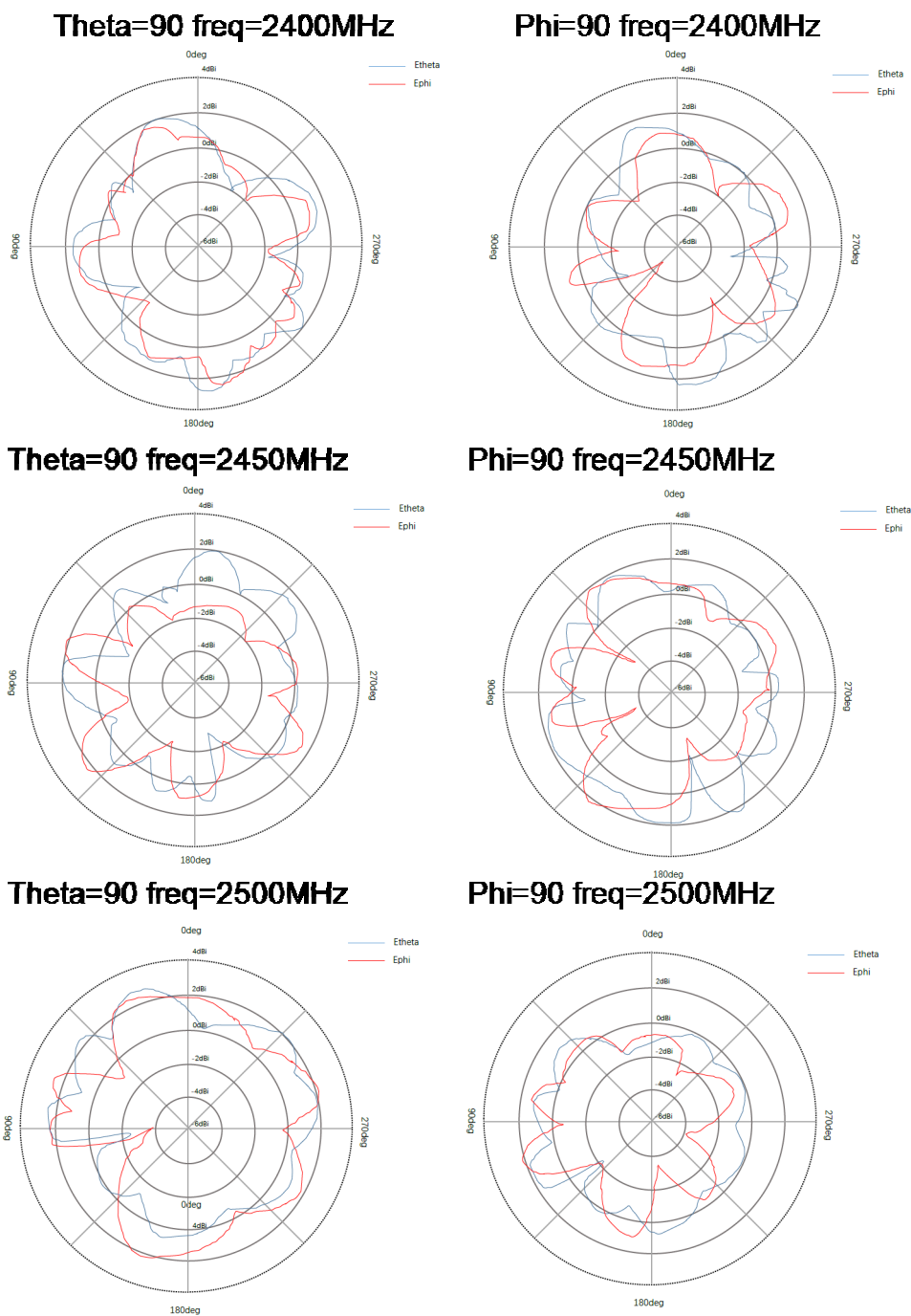
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3. directional diagram



7、Product characteristics

1. Select high-quality radio frequency cable, self-attenuation is small;
2. Choose High quality brass pipe, stable performance;
3. The standing wave in frequency band is good.

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