深圳市南斗星科技有限公司
SHENZHEN SOUTH STAR TECHNOLOGY CO.,LTD

样品封订

承 认 书

APPROVAL SHEET

客户名称 Customer Name 深圳市智微智能科技股份有限公司

产品型号 Product Model H052

客户料号 Customer P/N 301800000793

规格描述 Specifications 黑色外置天线，2.4G&5G，SMA 接头

南斗星料号 Southstar P/N 3.N102.0366（N12-4304-R0A）

制作日期 Production date 2024.01.16

制作版本 Revision 1.0

南斗星（Southstar）		
编制（FICTION）	品质（DQE）	研发（R&D）
客户（Customer）		
采　购（PUR）	品质（QC）	研发（R&D）

制造厂商：深圳市南斗星科技有限公司

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深圳市南斗星科技有限公司

SHENZHEN SOUTH STAR TECHNOLOGY CO.,LTD

承认书变更履历

版本	日期	变更描述	备注
1.0	2024.01.16	初版	

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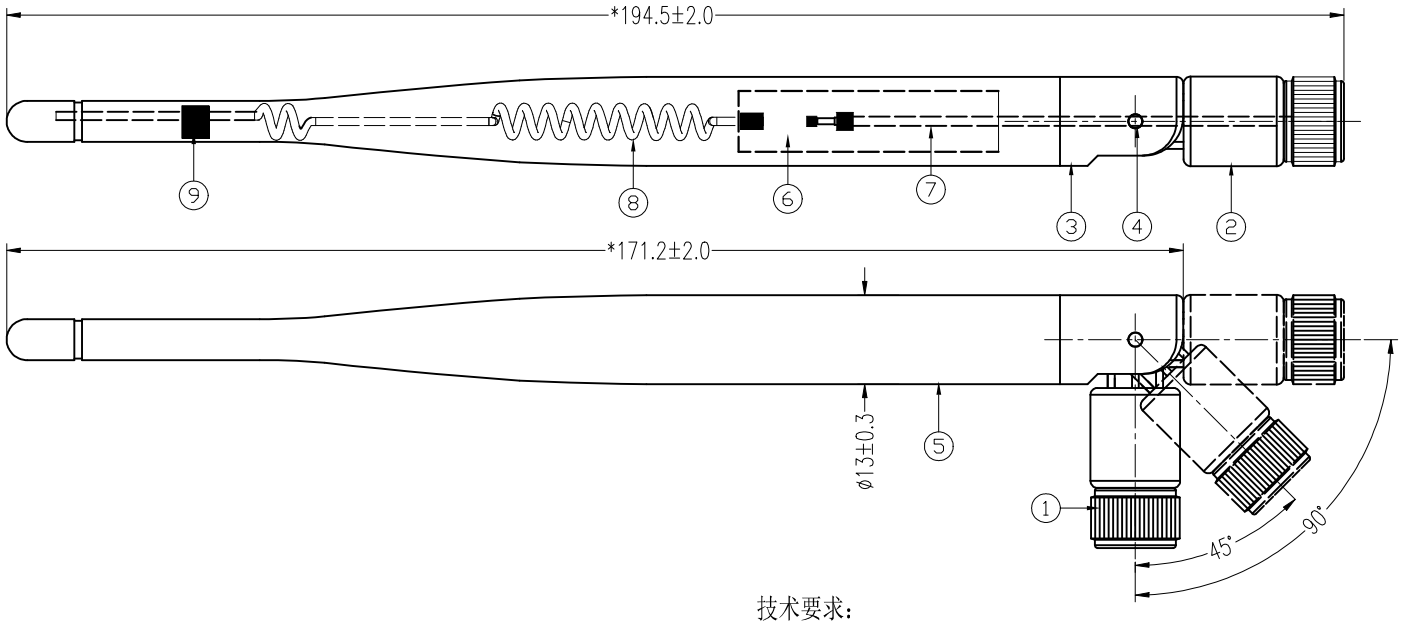
A. 电性能Electrical Characteristics	
Frequency 频率	2400MHz ~2500MHz 5150MHz ~5850MHz
VSWR 电压驻波比	＜2
Efficiency 效率	50%
Impedance 阻抗	50 Ohm
Polarization 极化	Linear
Gain 增益	3dBi
Note 备注：	
B. 材料&物理性能Material & Mechanical Characteristics	
射频材料 Material of Radiator	外置
射频线类型 Cable Type	1.78mm 棕色
接头类型 Connector Type	SMA
C. 环境 Environmental	
工作温度 Operation Temperature	-30℃ ~ +65℃
存放温度 Storage Temperature	-40℃ ~ +70℃

版本	描述	日期	备注
A	新发文		



技术要求：

1.标“*”尺寸为重点管控尺寸,标“CpK”尺寸需做制程能力分析；
2.未标注公差依照图纸标准公差表；
3.无虚焊、假焊、连锡、短路、断路等不良现象；
4.所有部件需符合RoHS2.0及REACH要求；

编号	料号	品名	规格描述	数量	备注
9	1.Z02.0053	泡棉	EVA/15*5*1.5mm	1	
8	1.W03.0020	弹簧	84*1.0mm	1	
7	2.A02.0019	WIFI 同轴线	Φ1.78mm棕色同轴线	1	
6	2.A19.0137	WIFI/PCB	FR4/单面板 黑色	1	
5	1.S01.0325	杆套	TPEE 黑色	1	
4	1.S01.0037	铆钉	POM 黑色	2	
3	1.S01.0009	上固定座	PC+PBT 黑色	1	
2	1.S01.0090	基座	PC+PBT 黑色	1	
1	1.W10.0275	SMA公头母针	公头母针/黑色外壳	1	

端子方向标准	
线长L≤100	±45°
100＜L≤200	±90°
线长L＞200	不管控

未注公差表					
0.5～6	±0.1	—	0.1		
＞6～30	±0.2	○	0.1		
＞30～120	±0.3	◎	Ø0.1		
＞120～400	±0.5	⊥	0.1		
＞400～1000	±0.8	▱	0.1		
＞1000	±1.2	角度	±1.0°		

South Star
深圳市南斗星科技有限公司 Shenzhen South Star Technology Co.,Ltd
东莞市南斗星科技有限公司 Dongguan South Star Technology Co.,Ltd

项目	H052	结构	雷双露 2024-01-16		
品名	WiFi双频天线	射频	蒋帅 2024-01-16		
料号	3.N102.0366	审核			
客户料号		单位	mm	版本	A
页码	1/1	第三视角	比例	FIT	

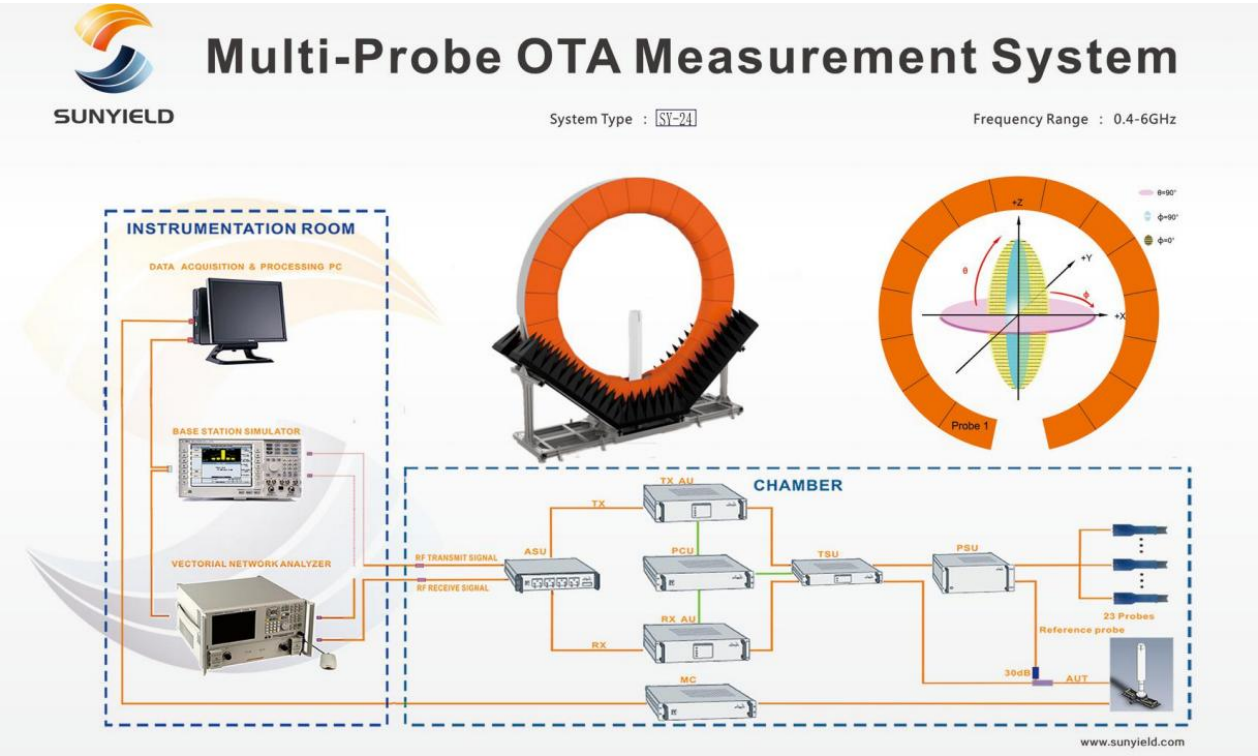
1. 网络分析仪 NetWork Analyzers:

Keysight E5071C

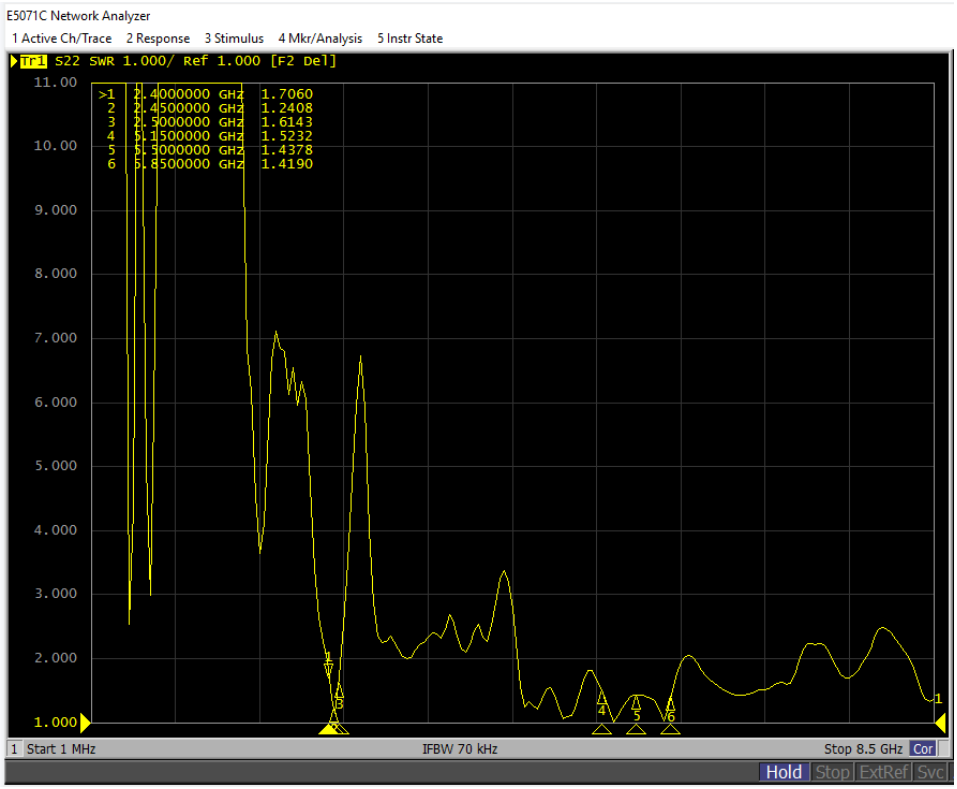
2. 综合测试仪 Comprehensive tester：

CMW500 、MT8000A、MT8862A

3. 3D 暗室测试系统 3D Chamber Test System:



天线阻抗(Antenna Impedance): S11



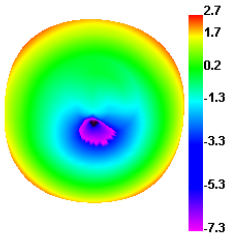
效率&增益(Efficiency & Gain)：

Freq (MHz)	Effi (%)	Gain (dBi)
2400	71.98	2.68
2410	70.48	2.67
2420	68.74	2.68
2430	68.42	2.78
2440	68.94	2.81
2450	71.29	2.84
2460	72.69	2.71
2470	74.94	2.93
2480	74.07	3.01
2490	70.52	2.75
2500	64.36	2.33

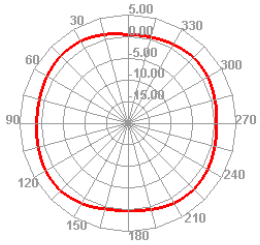
Freq (MHz)	Effi (%)	Gain (dBi)
5150	72.33	4.53
5200	70.68	4.52
5250	74.25	4.7
5300	73.56	4.47
5350	73.75	4.38
5400	75.06	4.24
5450	78.23	4.55
5500	75.88	4.58
5550	78.73	4.57
5600	77.91	4.63
5650	73.81	3.99
5700	71.92	4.07
5750	73.12	3.74
5800	73.63	3.33
5850	71.22	3.37

天线3D&2D方向图(Antenna 3D & 2D pattern)：

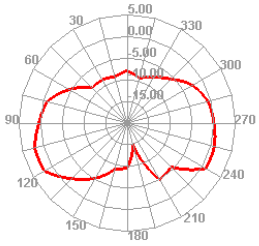
2400.000MHz



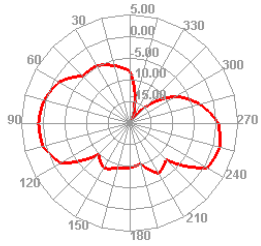
2400.000MHz H



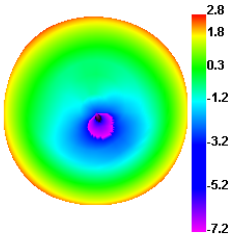
2400.000MHz E1



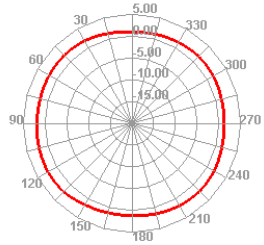
2400.000MHz E2



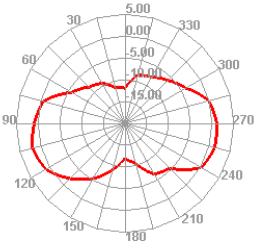
2450.000MHz



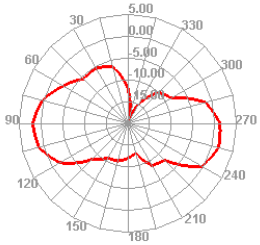
2450.000MHz H



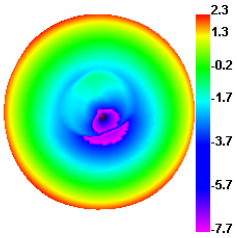
2450.000MHz E1



2450.000MHz E2



2500.000MHz



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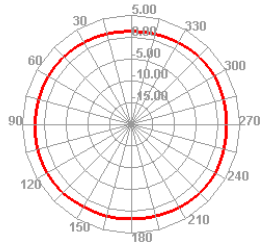
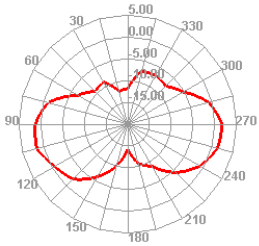
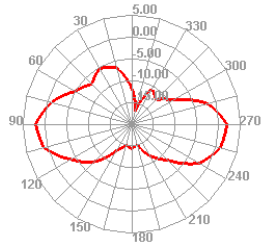


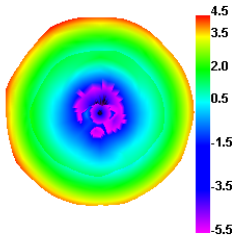
2500.000MHz E1



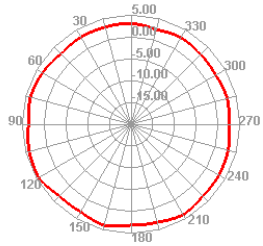
2500.000MHz E2



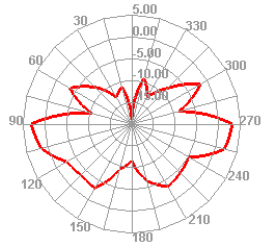
5150.000MHz



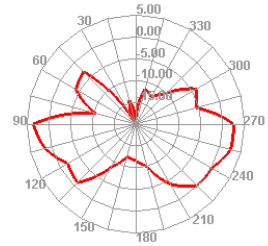
5150.000MHz H



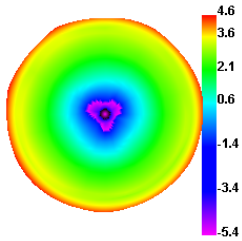
5150.000MHz E1



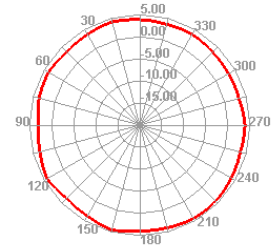
5150.000MHz E2



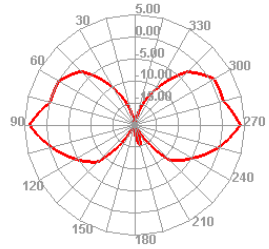
5500.000MHz



5500.000MHz H



5500.000MHz E1



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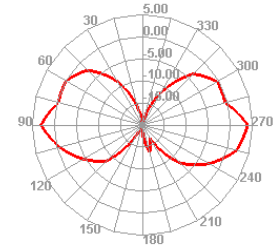
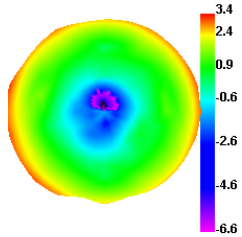
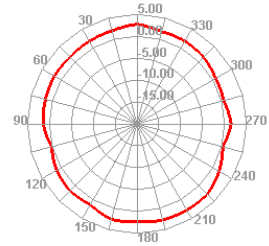


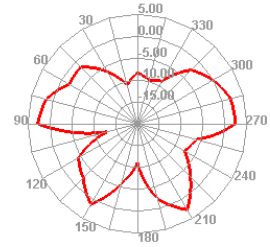
5850.000MHz



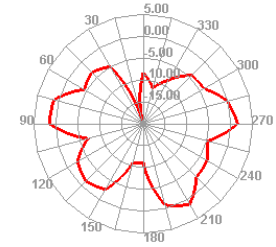
5850.000MHz H



5850.000MHz E1



5850.000MHz E2



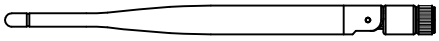
天线装配图片**(Antenna assembly picture)**:

产品包装规范

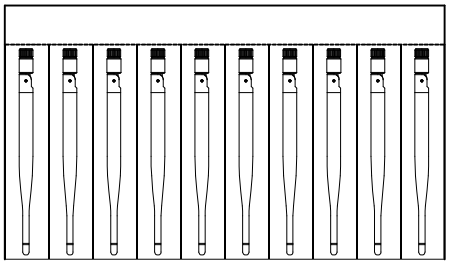
日期：2024-01-16

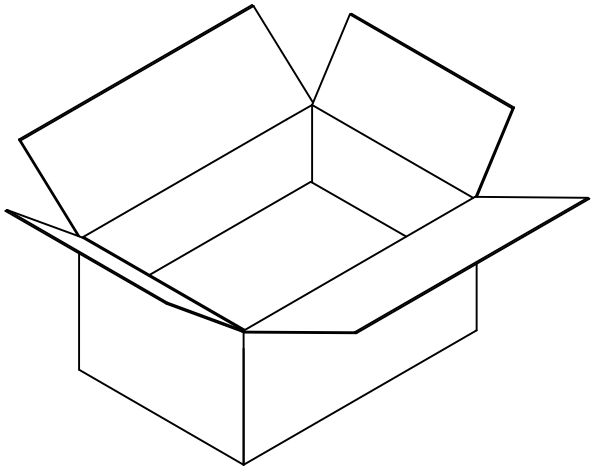
成品名称 ：H052 外置天线	版本：A

一：成品天线

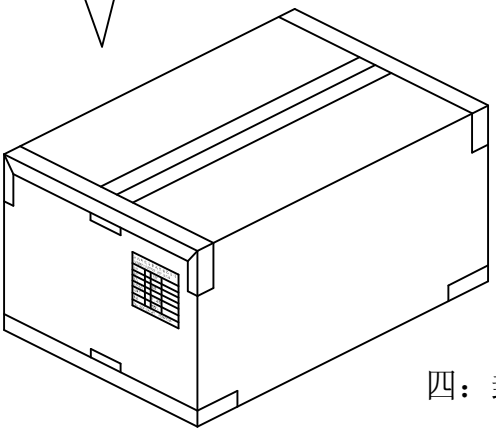


二：装排袋，每排袋装10PCS产品，然后5排带装一大夹链袋。





三：装箱(4包/200pcs装一箱)。



四：封箱，外箱贴我司生产标签。

制作：雷双露

审核：