



深圳市顺达成科技有限公司
SHUN DA CHENG TECHNOLOGY CO., LTD

承 认 书
SPECIFICATION FOR APPROVAL

客户名称 Customer Name	熹扬 SCULPFUN		
客户项目名 Customer Project Name	小辣椒外置天线 Chili pepper external antenna	顺达成项目名 SDC Project Name	小辣椒外置天线 Chili pepper external antenna
客户编码 Customer P/N		顺达成料号 SDC P/N	SMA-1131-150(外露)(黑) (Exposed)(Black)
频段 Band	WIFI2. 4G/5. 8G/BT		
版本号 Version	A0		
设计人信息/Designer Information			
射频工程师 RF Engineer	杨永辉	研发主管 R&D Diretor	符学荣
结构工程师 ME Engineer	李瑶娜		

审批/ Approval				客户批准/Customer Approval	
	制作 Prepared By	审核 Checked By	批准 Approval By	审核 Checked By	批准 Approval By
签章 Signature	李瑶娜	杨永辉	符学荣		
日期 Date	2023. 05. 27	2023. 05. 27	2023. 05. 27		

修订履历/Change Log				
版本 Version	修订内容 Change Description	责任人 Person in Charge	核准 Approval By	日期 Date



目录/Catalogue

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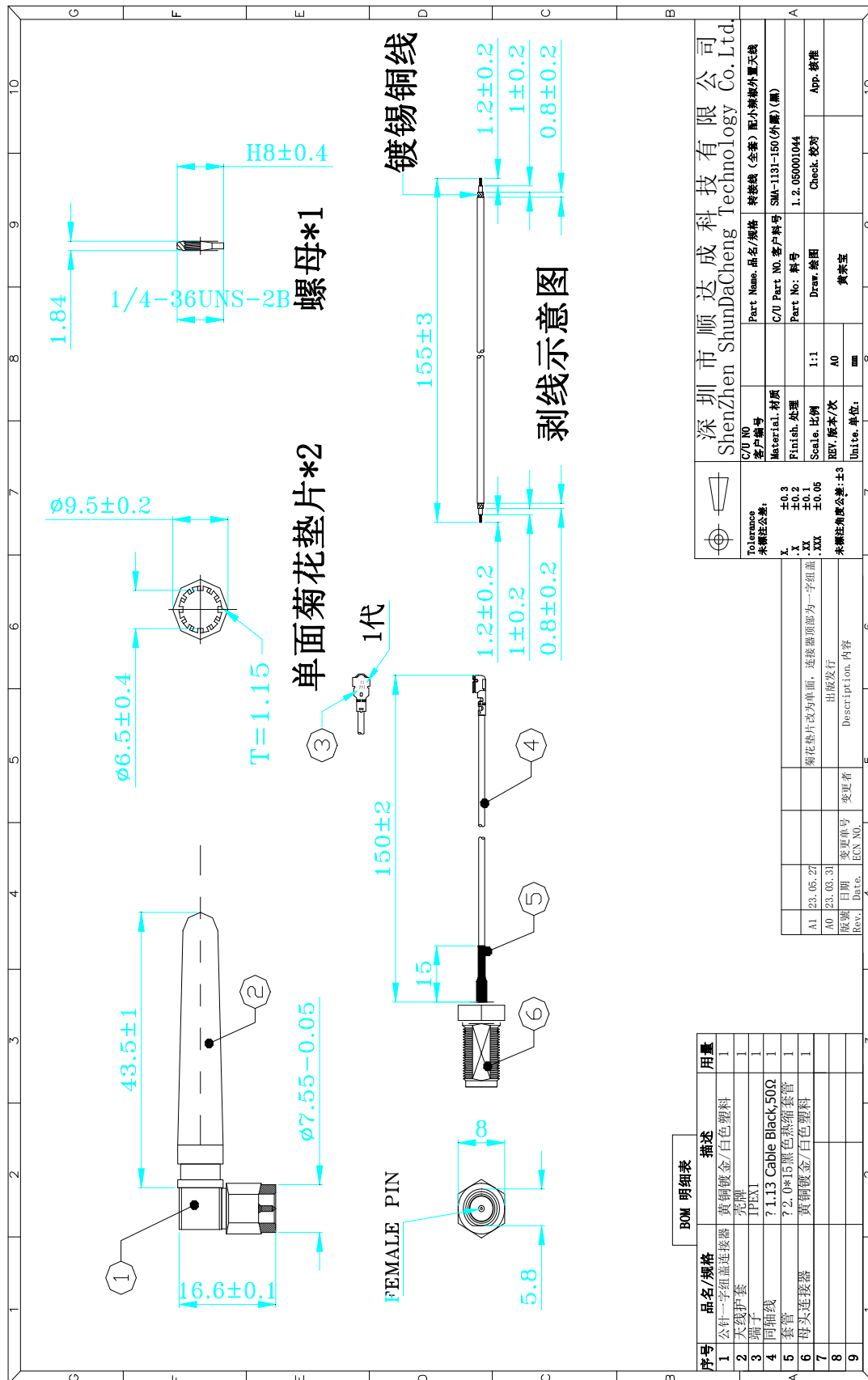


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产品图纸或实物图片

Drawing or Product Image



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样品尺寸测量报告

Sample Dimensions Test Report

测试日期 Test Date	2023. 05. 27	样品数量 Sample Qty.	3	测试人 Inspector	许燕芳
尺寸编号 Dimension No.	标准 Standard	样品 1 Sample 1	样品 2 Sample 2	样品 3 Sample 3	Pass/NG
①长度 ①Length	43. 5 ± 1mm	43. 5	43. 6	43. 5	Pass
②直径 ②Diameter	7. 55-0. 05mm	7. 55	7. 55	7. 55	Pass
③厚度 ③Thickness	16. 6 ± 0. 1mm	16. 6	16. 7	16. 6	Pass
④线长 ④Line length	150 ± 2mm	150	151	151	Pass
⑤					
⑥					
⑦					
最终结论 Conclusion					PASS
测试人&日期 Inspector & Date	许燕芳 2023. 05. 27		批准&日期 Approval & Date		



射频性能测量报告

RF Performance Test Report

天线测试设备简介

Antenna Test Equipment Introduction

测试天线输入特性使用 **Agilent E5071C** and **Agilent 5062A** 矢量网络分析仪；辐射特性利用广屏三维近场暗室进行测试，并分别使用 8960 E5515 和 Agilent E4438C 进行了分析。暗房的测试坐标如下：

Test of antenna input characteristics using **Agilent E5071C** and **Agilent 5062A** vector network analyzer; The radiation pattern of the antenna are tested using the guangping 3D near field Anechoic Chamber, and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:

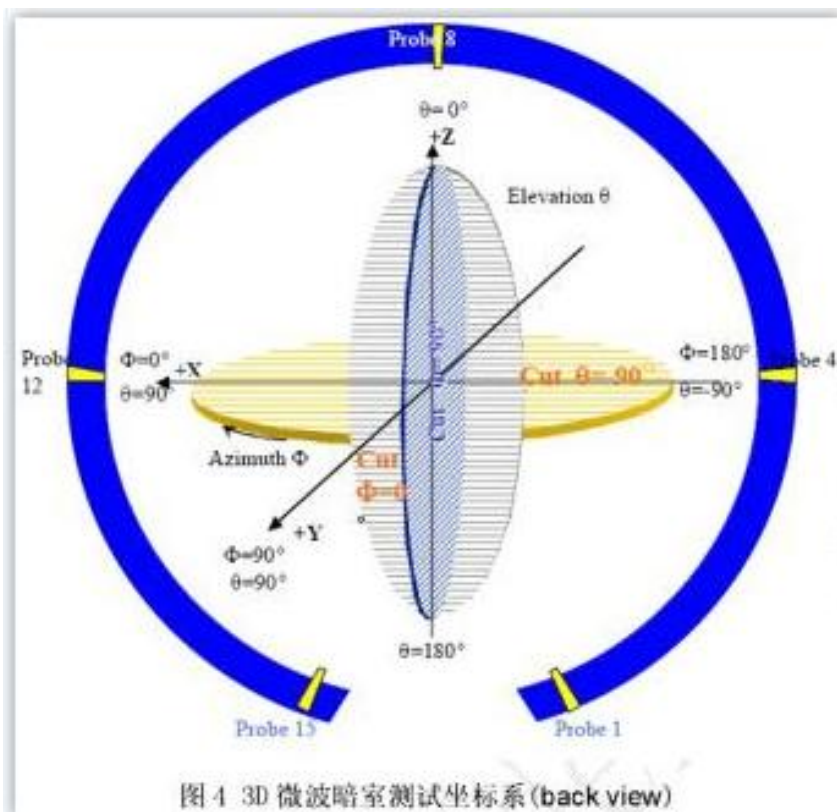


图 4 3D 微波暗室测试坐标系 (back view)

1. S11 参数测量 / **S11 Parameter-VSWR**

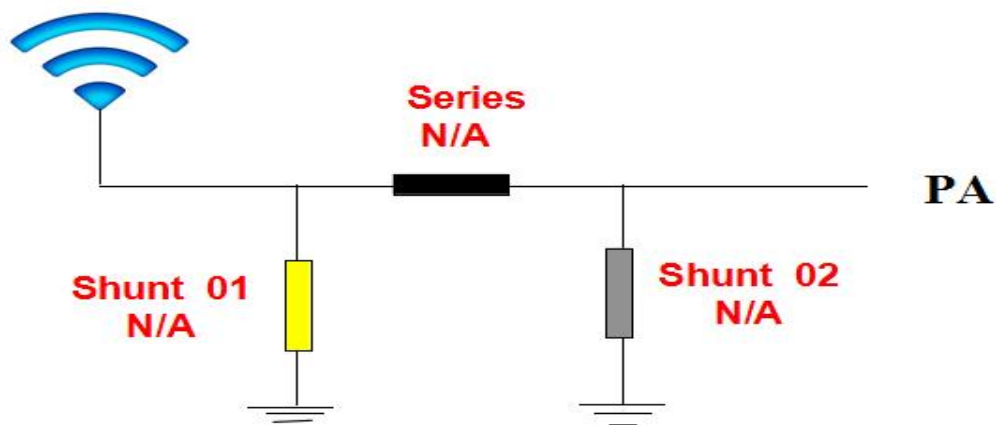
使用一根 50 Ω 同轴电缆连接到天线，然后该电缆连接到网络分析仪测量 S11 参数，被测量产品远离金属至少 20 厘米。

Measuring Method is a 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.



2. 天线匹配网络/Antenna Matching Network

Antenna





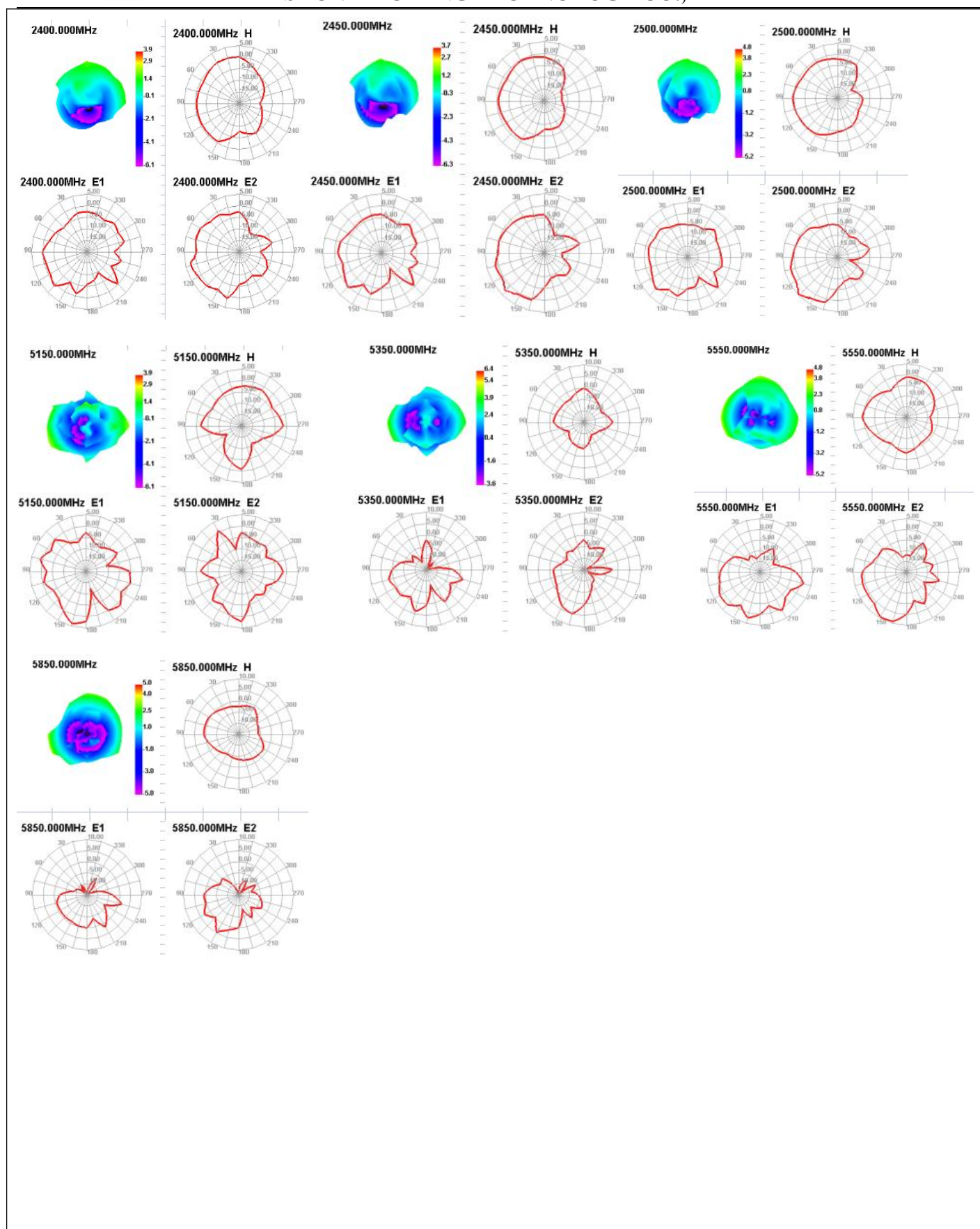
3. Gain & Efficiency

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	56.61	3.9
2450	49.03	3.75
2500	59.12	5.0
5150	50.62	3.86
5350	53.69	6.43
5550	53.38	4.83
5850	54.42	5.01



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