

SPECIFICATION

SHEET FOR APPROVAL

(Revision: V1)

CUSTOMER(客户名称)	Sensforge Inc		
CS P/N(客户机种)	SF-BC22E		
PART NAME(品名)	WIFI Antenna		
FREQUENCY(频率)	2400-2500MHz		
CUSTOMER P.N.（客户物料号）			
SUPPLIER PN.(供应商物料编号)	17I004A		
DATE(日期)	2025-9-22		
CUSTOMER SIGNED			
QA CHECKED	ME CHECKED	RFCHECKED	MANAGER CHECKED

Remark(备注):

Sign(客户确认签字盖章):

SHANGHAI DEEFAST TECHNOLOGY CO., LTD				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER



DEEFAST
上海深迅通信技术有限公司

Shanghai DEEFAST Commniunication Technology Co.,Ltd.

Building 3, No. 2710 Fengxiang Road, Jiading District, Shanghai, China

www.sh-shenxun.com

Catalogue

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1.Summarize

Type: WIFI Antenna
Material: FPC+cable

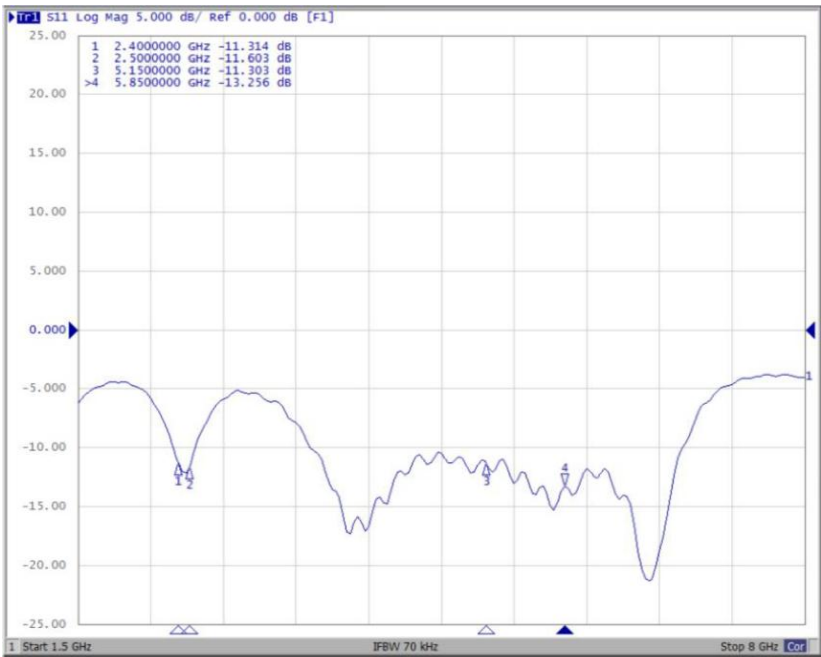
2.Test Equipment

France Satimo SG24 OTA
E5071C

3. Test data:
Active:

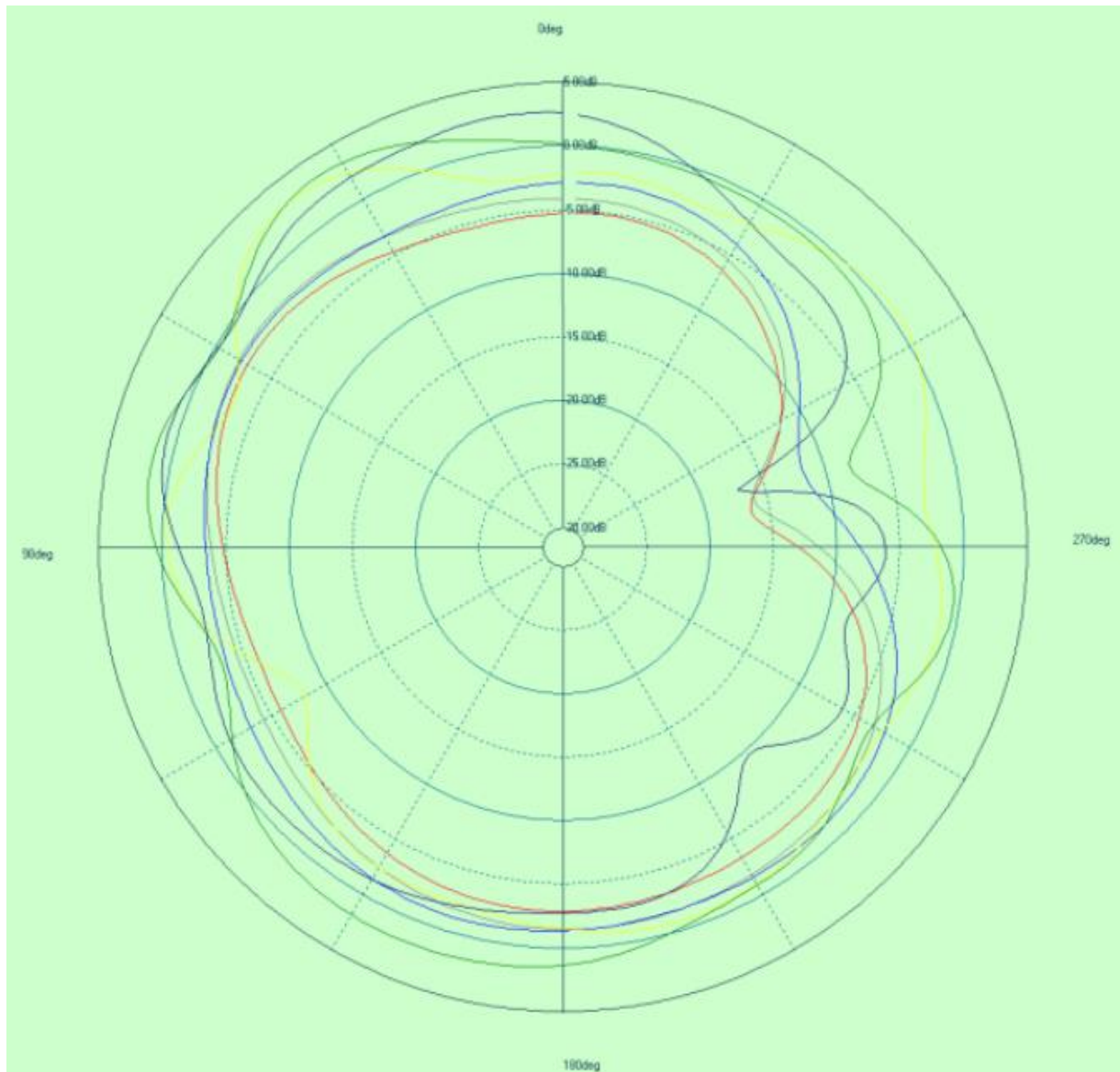
Data rate	Channels	Channels	TRP	TIS
11B/11M	1	2412	17. 12	-82. 43
	6	2437	16. 71	-82. 78
	11	2462	17. 39	-83. 33
11A/TRP6M/TIS54M	36	5180	16. 49	-73. 38
	100	5500	15. 89	-73. 53
	165	5825	16. 26	-74. 08

Passive:

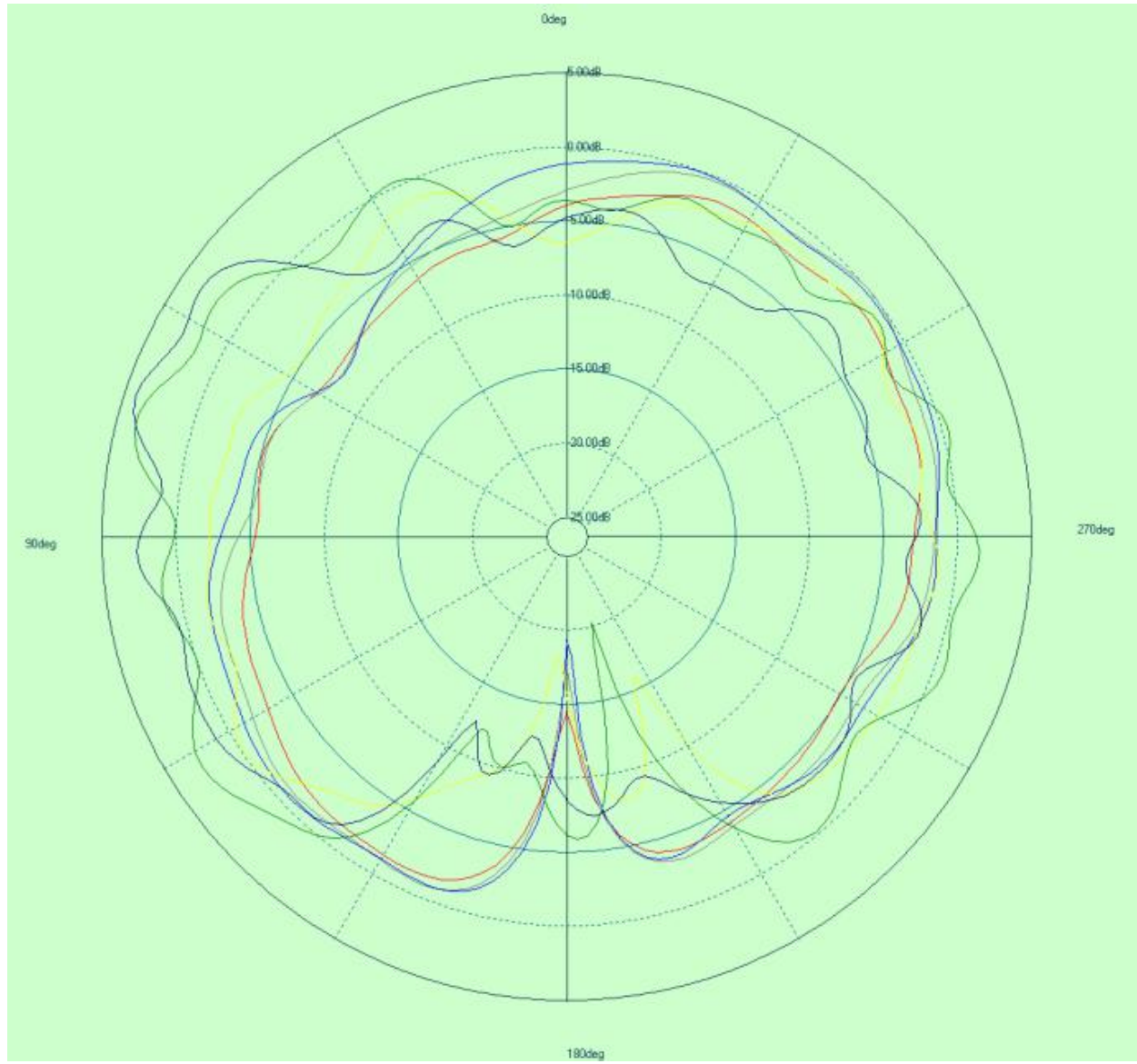


Frequency	Efficiency	Gain. dBi	Frequency	Efficiency	Gain. dBi
2400	50%	1.30	5150	53%	2.65
2410	52%	1.26	5200	57%	2.90
2420	52%	0.97	5250	59%	2.44
2430	51%	0.98	5300	52%	3.19
2440	50%	0.90	5350	58%	3.52
2450	52%	0.97	5400	64%	3.04
2460	52%	1.31	5450	56%	3.97
2470	53%	1.31	5500	57%	3.57
2480	54%	1.31	5550	55%	3.72
2490	55%	1.71	5600	53%	3.02
2500	54%	1.67	5650	44%	3.23
			5700	43%	3.94
			5800	45%	2.67
			5850	41%	1.98

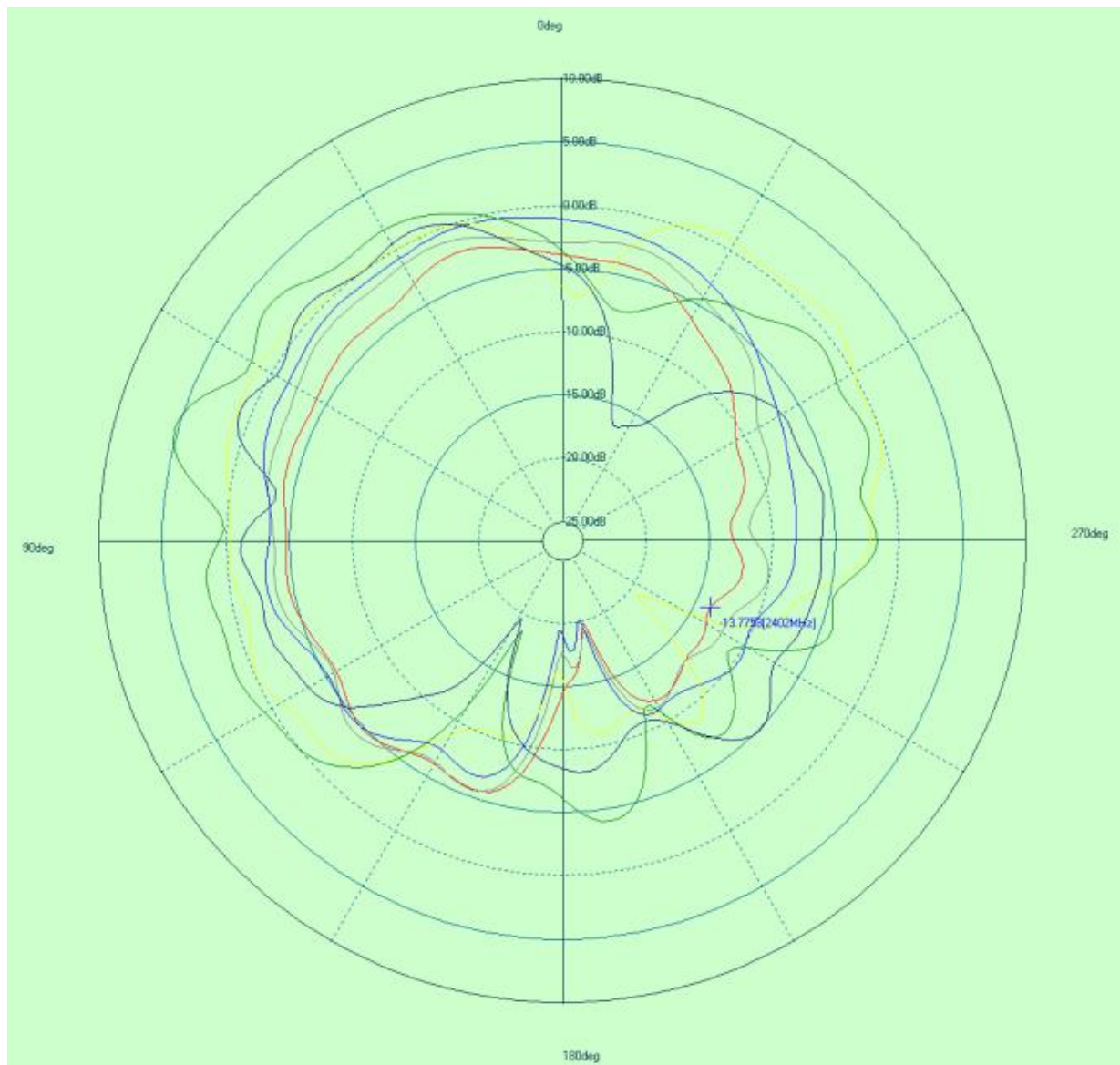
H:



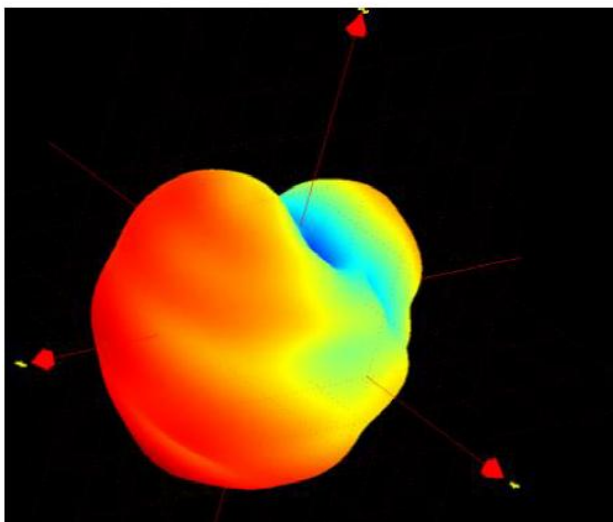
E1:



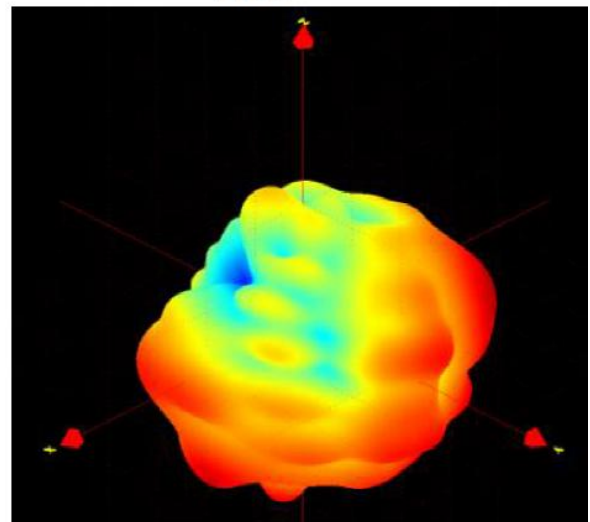
E2:



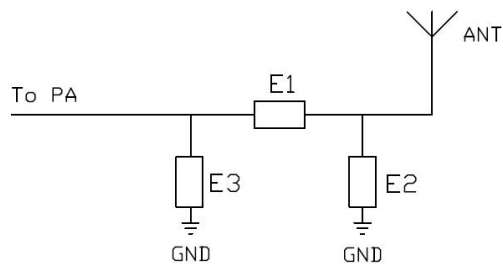
2.45G



5.5G



4.Match

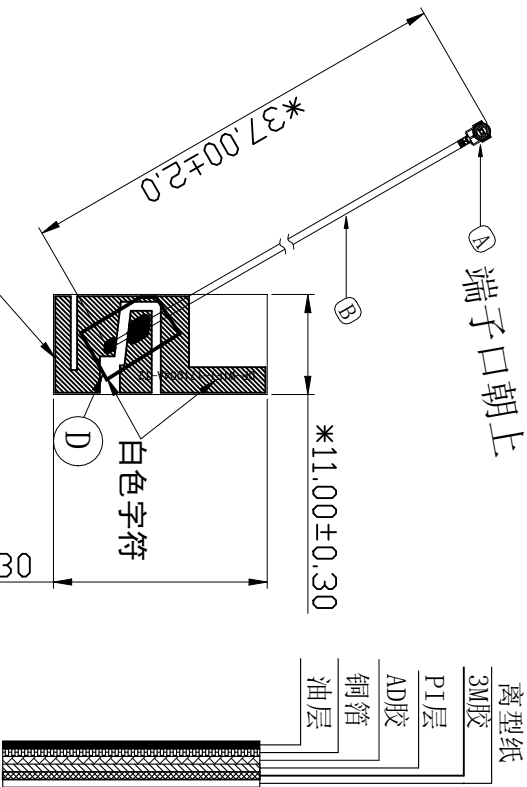


Match	WIFI
E1	0Ω
E2	NC
E3	NC

5.Engineering Drawing



Rev	Description	Designed	Date
版本	描述	制图	日期
T1	首次发行	JASON	2025. 05. 15
T2	结构调整	JASON	2025. 05. 28



铜箔

OSP工艺

产品外形

材质排版说明

产品总厚度(离型纸除外)=0.11mm±0.03

序号	物料名称	规格型号	工艺说明
①	1代端子 (CW-98S-C113-1-B-BD-10)	磷青铜/表面镀金	
②	同轴线 (SY113/50-055)	L=37±2.00mm	黑色
③	FPC	单面电铸铜 3M9471LE	黑色
④	点胶	UV胶	

备注:

- 图中所标注*尺寸为IQC必测尺寸，加*尺寸为CPK管控尺寸。
- 线路采用丝印工艺。
- 字码采用丝印工艺，白色丝印。
- 包装方式（捆扎出货）。
- 外形需冲切光滑平顺、且不能冲切到内部线路。
- 产品表面不能有锡珠、脏污、露铜、气泡等不良问题。
- 要求过盐雾测试48小时不能出现氧化现象。
- FPC天线成品未经过DP公司确认，材料不能随意更改。



上海深迅通信技术有限公司
Shanghai DEEPFAST Communication Technology Co., Ltd.

General Tolerance		Date	Unit	Rev	Scale	Project Name
Dim	Grade	日期:	单位: mm	版本: T2	比例: 1:1	SF-BC22E
5-10	A	2025. 05. 28	Designed	JASON	Material	产品名称: WIFI 天线组件
10-20	±0.10	±0.20	设计:		FPC+Cable	产品编码: W1F1 天线组件
20-40	±0.15	±0.30	射频:	刘祥	Process	物料编码: 171004A
40>	±0.20	±0.40	审核:		Third Angle	图纸编号: DP-QR-RD-013
	±0.25	±0.50	第三视角			

6.Test Report



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Test Report

Customer		Sensforge Inc		Part Name		WIFI Antenna		Quality		10pcs			
Material		FPC+cable		Color		Black		Date		2025.7.14			
NO	Required size	Measured Size										Result	Remark
		1	2	3	4	5	6	7	8	9	10		
1	11±0.3	11.05	10.95	11.02	11.04	10.97	11.03	10.96	11.02	10.96	10.94	OK	
2	23.5±0.3	23.47	23.45	23.52	23.53	23.48	23.46	23.47	23.51	23.56	23.5	OK	
3	37±2	36.43	37.57	37.18	36.58	36.92	36.88	37.42	37.09	36.7	37.04	OK	
4													
5													
6													
7													
8													
9													
10													

Appearance: no bubbles, no dirt, no particles on the surface OK. Adhesion test OK.

Other: 100 cell test OK

Judge:

OK

NG

Approval:王国均 Audit:易爱玲 Lister: 韦金苏

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7.Process Capability Index Evaluation Report



Process Capability Index Evaluation Report

Customer:Sensforge Inc Part Name:WIFI Antenna (17I004A) Date:2025.7.14								Recognize	Audit	Lister
								胡春梅	易爱玲	韦金苏
NO.	11.00		23.50		37.00					Remark
	0.20	0.20	0.20	0.20	2.00	2.00				
1	11.05		23.47		36.43					Mass production can be carried out under the condition that CPK values are "satisfied", but the inspection needs to be strengthened. 2. Under the condition that CPK value is "very satisfied", sampling inspection can be carried out during mass production. 3. If one of the CPK values does not meet the requirement of "meet", the reasons should be analyzed and improved.
2	10.95		23.45		37.57					
3	11.02		23.52		37.18					
4	11.04		23.53		36.58					
5	10.97		23.48		36.92					
6	11.03		23.46		36.88					
7	10.96		23.47		37.42					
8	11.02		23.51		37.09					
9	10.96		23.56		36.70					
10	10.94		23.50		37.04					
11	11.04		23.46		36.74					
12	11.01		23.55		37.30					
13	11.03		23.45		37.10					
14	10.94		23.52		37.48					
15	11.04		23.54		36.64					
16	10.97		23.47		37.24					
17	11.04		23.53		37.36					
18	10.98		23.46		37.50					
19	11.05		23.52		37.42					
20	10.97		23.46		37.52					
21	10.99		23.44		37.21					
22	10.97		23.54		36.76					
23	10.95		23.51		36.85					
24	11.02		23.53		36.53					
25	11.03		23.44		37.28					
26	10.98		23.54		37.45					
27	10.96		23.47		37.54					
28	10.97		23.54		36.94					
29	11.01		23.48		37.06					
30	11.06		23.55		37.50					
31	11.00		23.47		36.46					
32	10.96		23.48		36.56					
MAX	11.06		23.56		37.57					
MIN	10.94		23.44		36.43					
X	11.00		23.50		37.07					
M	11.20		23.70		39.00					
CP	1.793		1.788		1.84					
SN-1	0.037		0.037		0.36					
K	0.0141		0.0156		0.04					
CPK/Judge	1.768	very satisfied	1.760	very satisfied	1.775	very satisfied				
Judge:	The CPK value "very well meets" the production conditions and can be used for mass production.									

8.Salt Spray Reliability Test Report

 JEEP FAST 上海杰讯通信技术有限公司					
Salt Spray Reliability Test Report					
Customer	Sensforge Inc	Part Name	WIFI Antenna	Date	2025/7/14
Material	FPC+cable	Time	48H	Quality	3PCS
Time	Test Condition	Test Standard		Result	Remark
0-6 hours	Salt spray tester: salt solution: NaCl (anhydrous); Concentration of 5% plus or minus 1%; PH value: 6.5 ~ 7.2; Laboratory temperature: 32-38℃; Compressed air pressure :1.0±0.0 1(KG/M2) spray volume :1.0 ~ 2.0ML/80CM2/H. Relative humidity :85%±2 %; Test product placement Angle :30 degrees +/-10 degrees; Duration of salt spray: 48h	Product surface without rust, oxidation, corrosion, plating (coating) layer off and other adverse phenomena		ok	2025.7.11 15: 00 start
6-12 hours		Product surface without rust, oxidation, corrosion, plating (coating) layer off and other adverse phenomena		ok	
12-18 hours		Product surface without rust, oxidation, corrosion, plating (coating) layer off and other adverse phenomena		ok	
18-24 hours		Product surface without rust, oxidation, corrosion, plating (coating) layer off and other adverse phenomena		ok	
24-30 hours		Product surface without rust, oxidation, corrosion, plating (coating) layer off and other adverse phenomena		ok	
30-36 hours		Product surface without rust, oxidation, corrosion, plating (coating) layer off and other adverse phenomena		ok	
36-42 hours		Product surface without rust, oxidation, corrosion, plating (coating) layer off and other adverse phenomena		ok	
42-48 hours		Product surface without rust, oxidation, corrosion, plating (coating) layer off and other adverse phenomena		ok	2025.7.13 18: 00 end
48 hours and more		Product surface without rust, oxidation, corrosion, plating (coating) layer off ≤1% product area			
Judge	OK				
Lister	韦金苏	Audit	易爱玲	Recognize	胡春梅

Part Name		Item	Document No.	Version	Procedure No. / Name	Process working hours	Daily output
WIFI Antenna			ZTX-QD-WI-074		Packing	/	/
Figure 1: Picture of the antenna Figure 2: Small labels Figure 3: Label the outer box and seal the box			Operation method (self-check after qualified operation of this procedure. Before moving on to the next process)		Matters needing attention		
			1.The antenna is shipped on the whole page, 1000pcs/bag		1.The BOM number and quantity of the customer are correct		
			2.20 sheets per carton		2.The contents of inner label, outer label, shipping report and delivery note should be consistent		
			3.Paste a small label and fill in the product name, material number, quantity, weight, cycle and other information				
			4.Seal the labelled box with adhesive tape				
The name of the material		Material code		The dosage		The use of tools	
Lister	陈斌	Audit	易爱玲	Recognize	胡春梅		