NO.：SDN-RD-FY-2024121201

APPROVAL SHEET

Customer	SOLAX			
Customer P/N				
Project Name	Pocket V4.0			
Supplier	Shanghai Saintenna Wireless Technology Co. , Ltd.			
Saintenna P/N	SAA32339A			
ROHS Compliant	Yes			
Providing Date				
Supplier	Prepared by	Designer	QA	Approver

Address: Room 601, Building 1, No. 69 Yuanfeng Road, Baoshan District, Shanghai 200444, China

Tel：086-021-56165098; Fax：086-021-56165098

Customer	Prepared by	Checked by	Approver

Note: Signature must be confirmed by hand

Content

1 Cover.....☑

2 Content.....☑

3 Specification.....☑

4 Drawing.....☑

5 Electrical Report.....☑

Specification

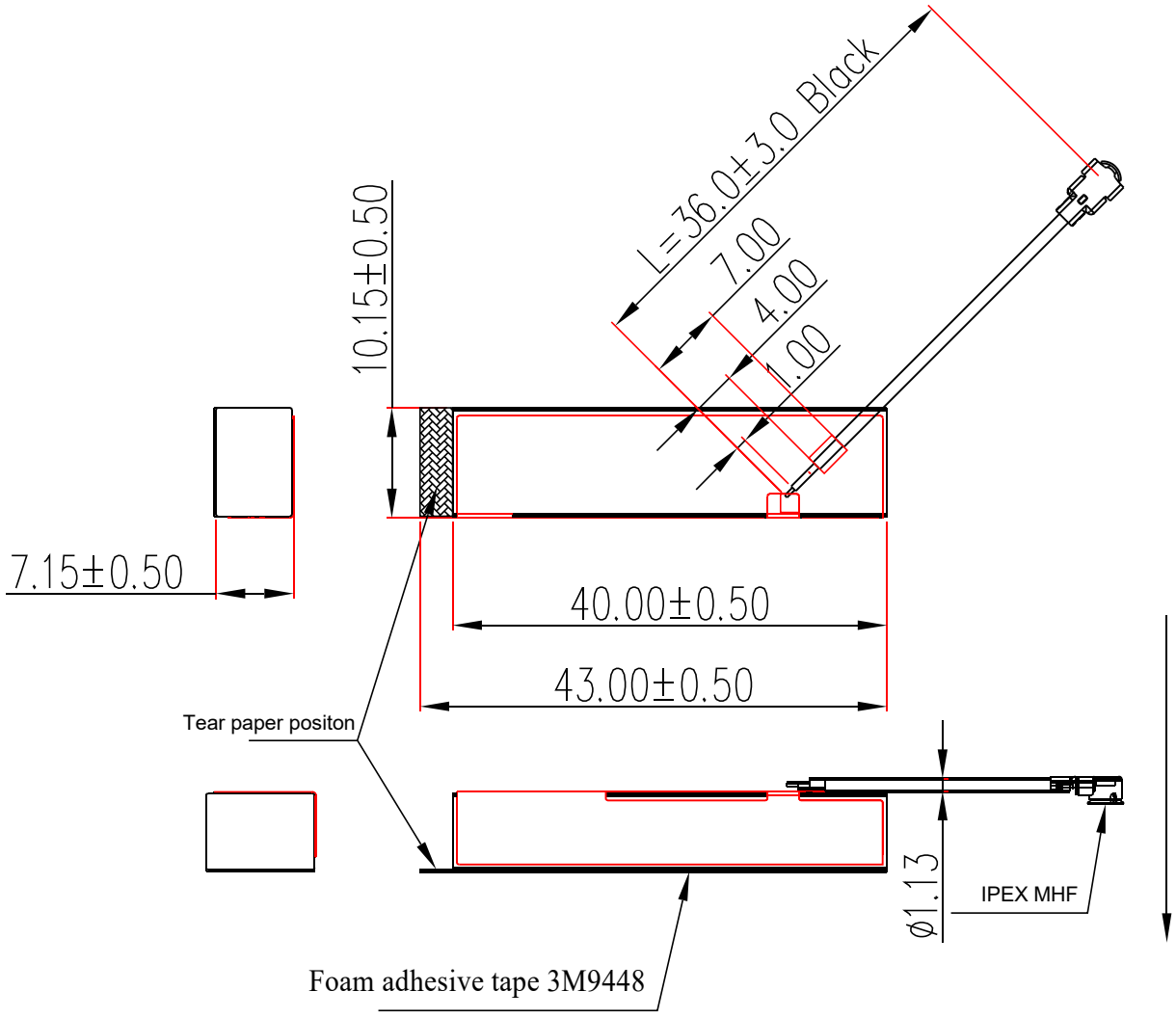
1. Mechanical Specification

- Connect Type..... IPEX MHF
- Work Temperature..... -40~85℃
- Storage Temperature..... -40~85℃
- Salt spray tolerance..... 48H

2.Electrical Specification

- Frequency Range..... 2400MHz~2500MHz
- VSWR..... <2
- Efficiency..... <62.46%
- Peak Gain..... 0.5dBi
- Polarization..... Linear
- Input Impedance..... 50Ω
- Max Input Power..... 5W

Mark	Signature	Revision	Date



Technical specifications:

1、Materials: FPC+Foam+Coaxial Cable+IPEX MHF

2、The soldering points must not have any missed soldering, and the FPC surface must be free of solder residue.

3、Dimensions marked with an asterisk (*) and those with specified tolerances are classified as key control dimensions, while all other dimensions shall be controlled according to the tolerance specifications listed in the schedule/detail list.

4、Comply with RoHS standards.

圣丹纳 SAINTENNA

Shanghai Saintenna Wireless Technology Co.,Ltd.

Third Projection			
0~3	ϕ0.10	⊕	0.30
3~30	ϕ0.30	○	0.30
30~50	ϕ0.50	◎	0.30
50~80	ϕ1.00	⊥	1.00
Angle	ϕ1°	▱	1.00

Page 1

Project No.	S2016	Date	2025.03.28
Product Name	2.4G Antenna Assembly	R&D	MD mayuxue
			RD huangjinxiang
Part No.	SAA32339A	Approval	
		Unit mm	Scale CIT Version P1

Solax Pocket V4 Antenna Test Report

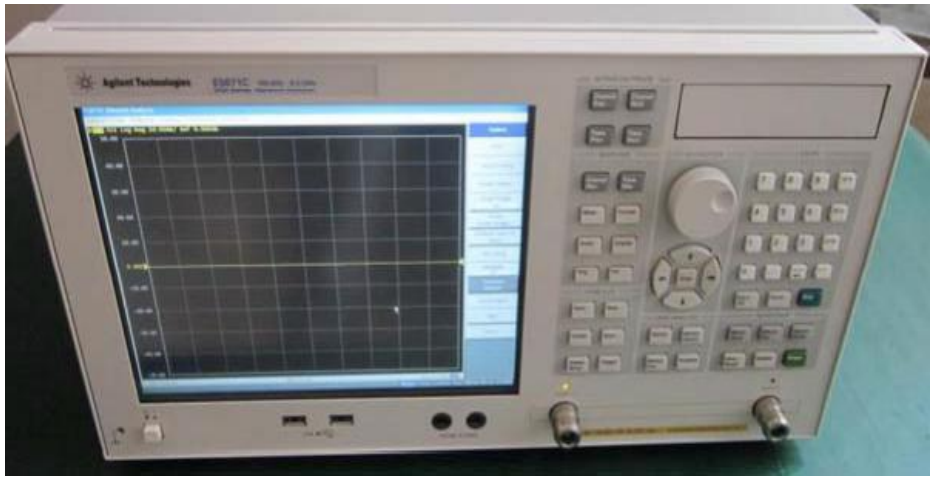
Shanghhai Saintenna Wireless Technology Co., LTD.

Project Information

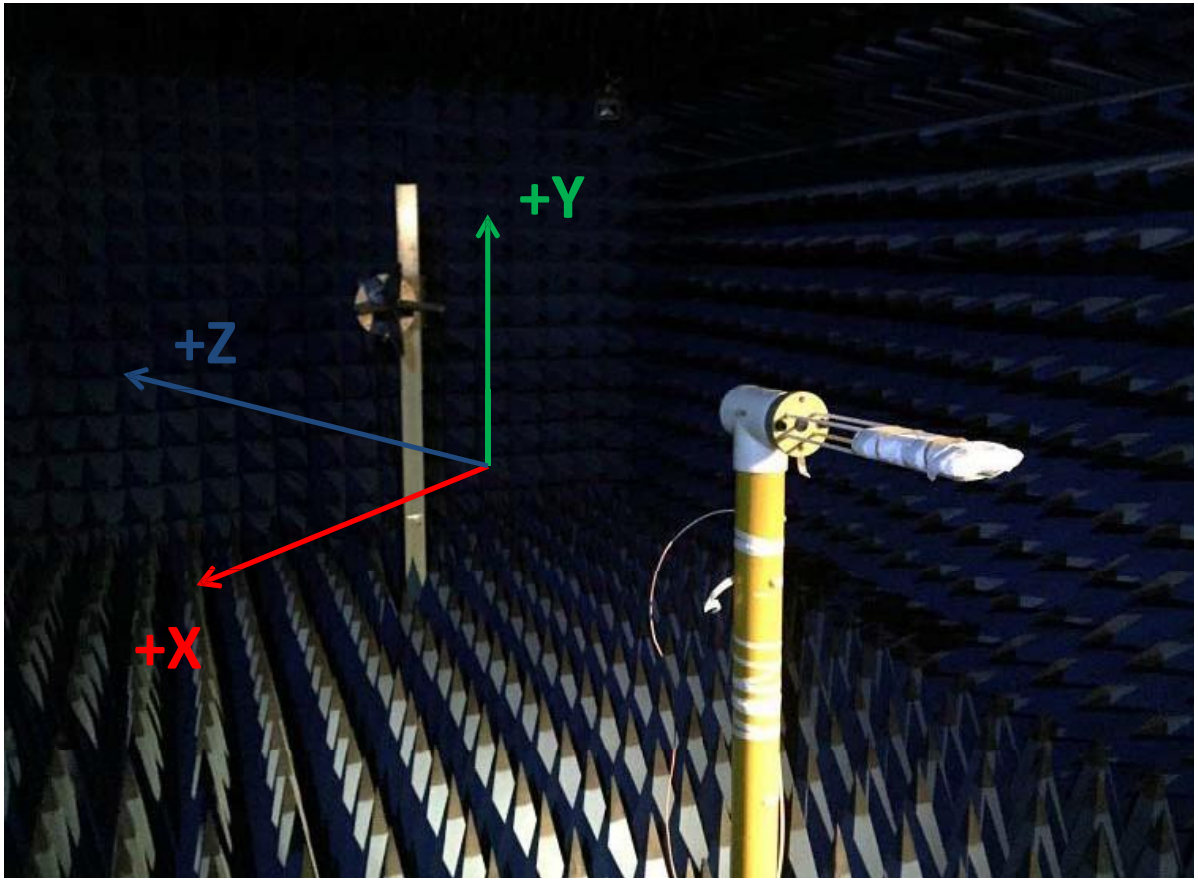
Customer Name	Solax
Project Name	Pocket V4
Working Band	2400MHz-2500MHz
Description	
Version	V1.0
Date	2024-12-12

Testing Instrument

Instrument model	Agilent E5071C
Frequency Range	100KHz ~ 8.5GHz
Test Content	Return Loss/VSWR/Smith Chart /Isolation



Anechoic Chamber



Combined-Axes System

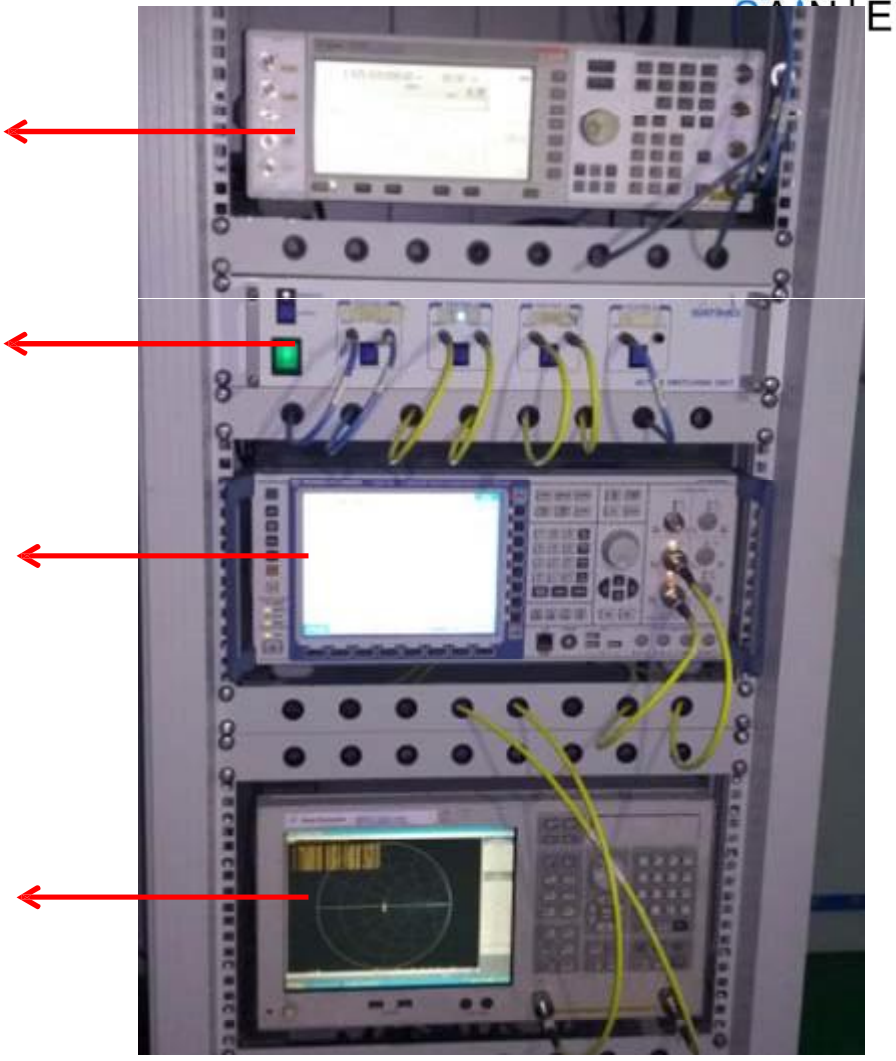
Testing System View

Instrument model	Agilent Signal Generator E4438CE4438C
Test Content	GPS

Instrument model	RF Switch Unit

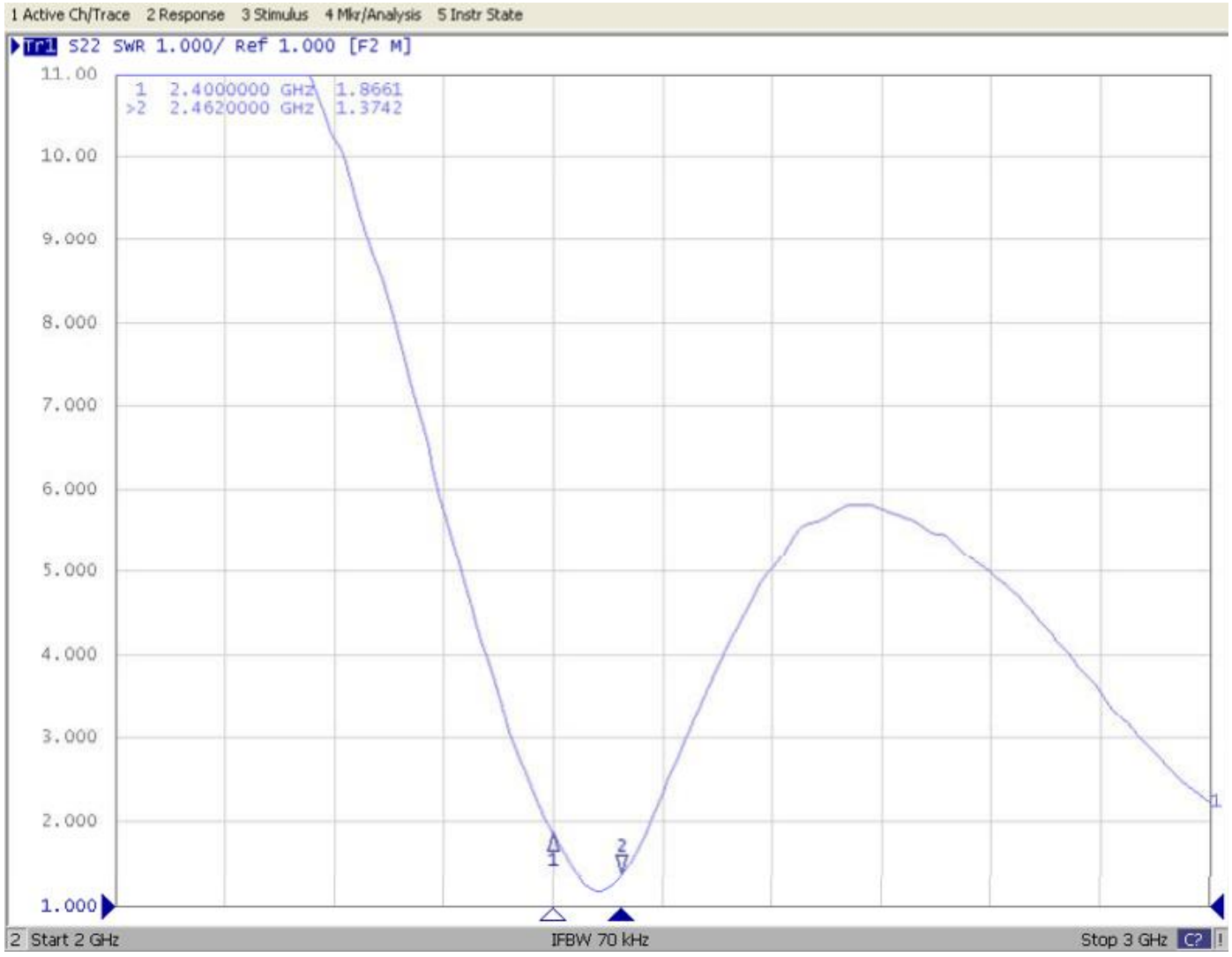
Instrument model	R&S CMW500
Test Content	GSM/GPRS/WCDMA/LTE/NB/WiFi 802.11b/g/a/n

Instrument mode	Agilent AnalyzerE5071C
Test Content	Passive Testing(400MHz~6GHz)



Antenna Picture

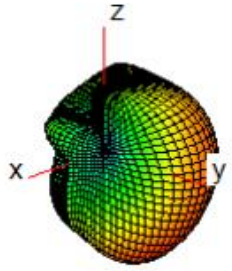
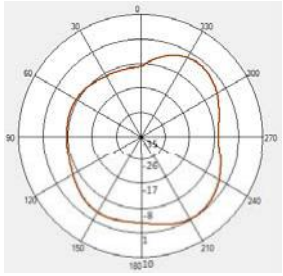
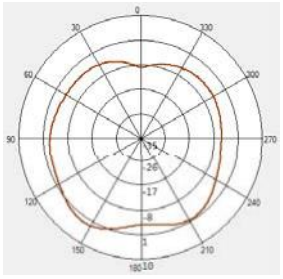
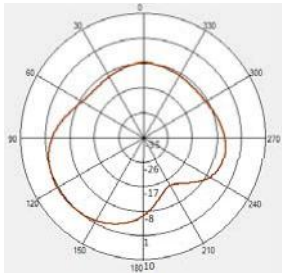
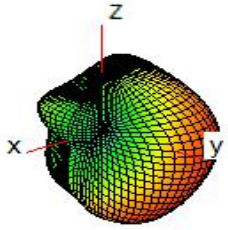
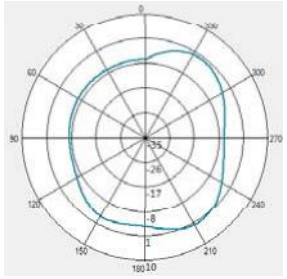
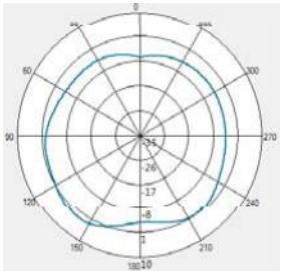
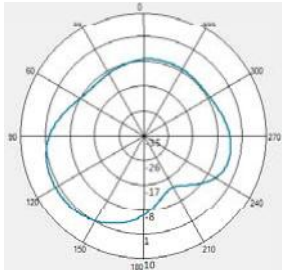
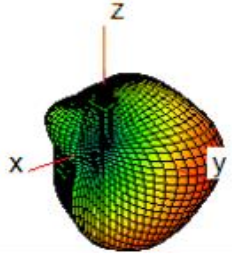
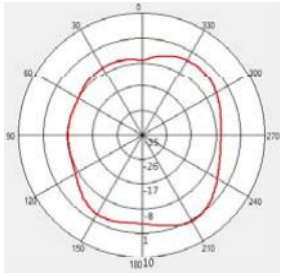
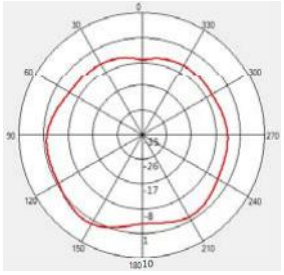
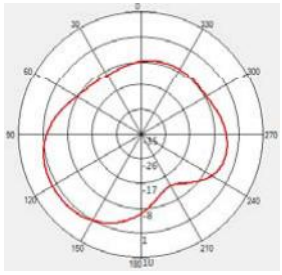
VSWR


1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S22 SWR 1.000/ Ref 1.000 [F2 M]
1 2.4000000 GHz 1.8661
>2 2.4620000 GHz 1.3742
11.00
10.00
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
2 Start 2 GHz
IFBW 70 kHz
Stop 3 GHz

Test Result – Passive

Freq（MHz）	Gain（dBi）	Efficiency（%）
2400	0.32	53.74
2410	0.42	58.29
2420	0.46	59.43
2430	0.48	60.32
2440	0.50	62.46
2450	0.48	61.79
2460	0.47	59.45
2470	0.48	60.01
2480	0.46	59.03
2490	0.38	57.42
2500	0.35	55.01

Test Result – Passive

		E1	E2	H
2400MHz				
2450MHz				
2500MHz