

Shenzhen Yunding Communication Electronics Co., LTD

TEL: +86 0755-23073599

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E-mail:wht0809@163.com

APPROVAL SHEET

CUSTOMER:

DESCRIPTION: **2.4Grubber antenna+adapter -rp sma male-ipex1**

PART NO.:

CUS PART NO.:

D A T E: 2024.04.08

Tel: 0755 23073599

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1. Test items and equipment

	Test items	Equipment
1. S-parameter	1. Return Loss 2. VSWR	Network analyzer: Agilent E5071B HP 8753D
2. Active test	1. TRP 2. TIS	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2.Comprehensive tester: Agilent 8960 E5515B ×2 StarPoint SP6011 Cmw500
3.Passive test	1.Gain 2.Efficiency	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Comprehensive tester: Agilent E5071B HP 8753D



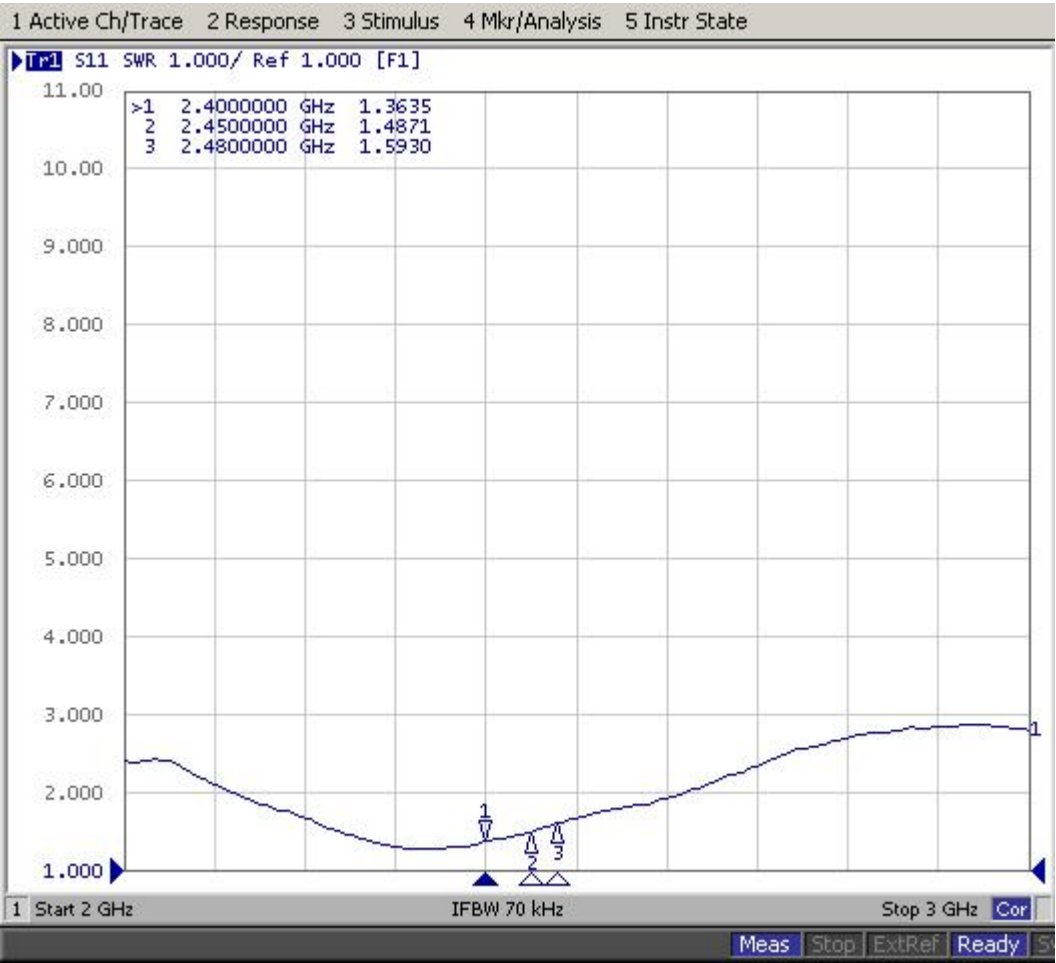
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2. Antenna performance-SWR



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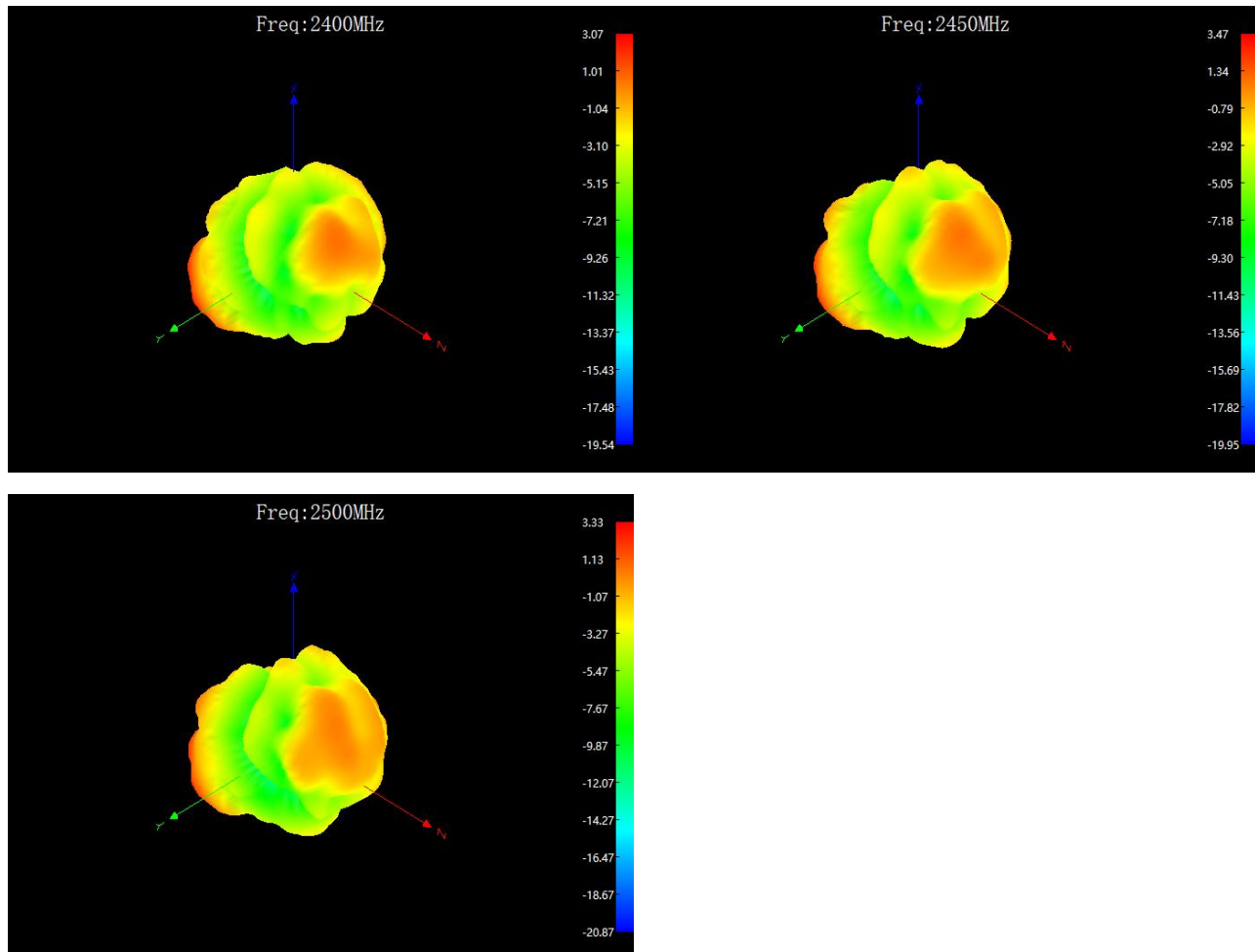
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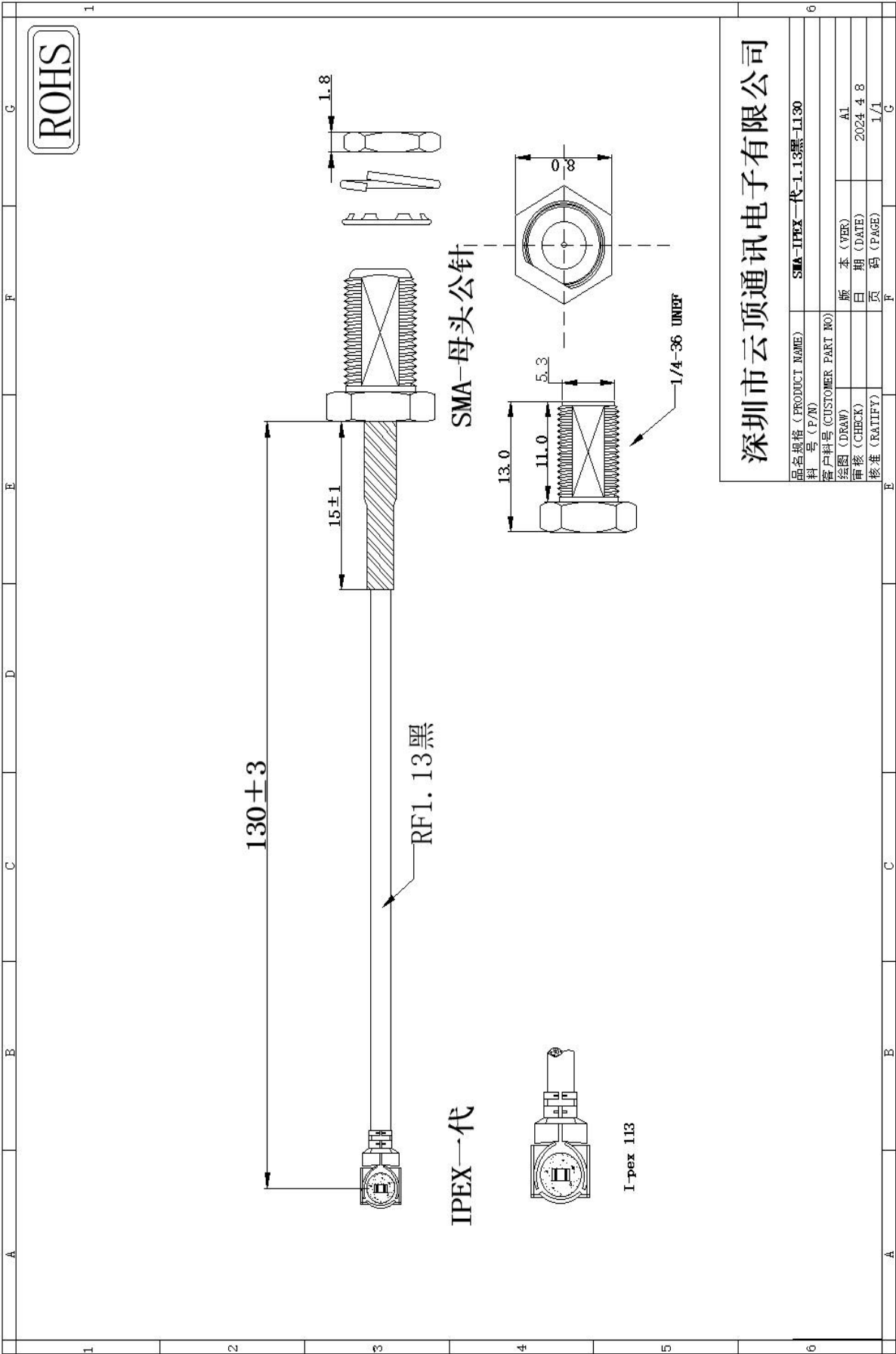
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3. Antenna efficiency and gain

Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	41.88	3.07
2410	44.16	3.05
2420	44.87	3.25
2430	46.13	3.43
2440	46.88	3.39
2450	47.97	3.47
2460	48.19	3.53
2470	50	3.62
2480	50	3.52
2490	49.77	3.26
2500	49.09	3.33



4. Antenna structure diagram:

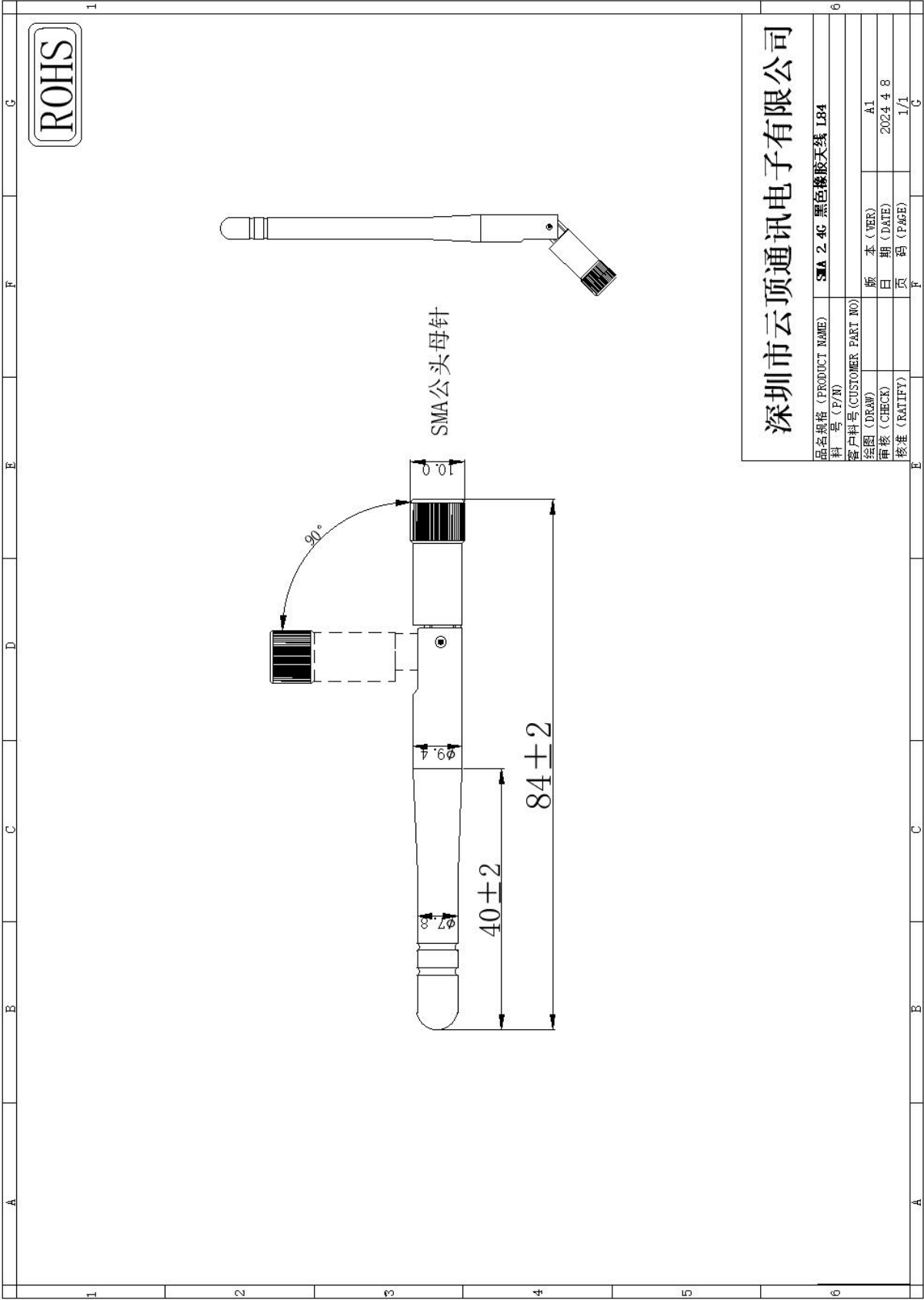


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Technical parameters of electrical apparatus	
Electrical Specifications	
Frequency Range	2400~2500MHz
VSWR	≤ 2.0
Input Impedance	50 Ω
Gain	3 DBI
Mechanical Specifications	
Antenna color	Black
Input connector	SMA
Antenna length	84mm
Working Temperature	-40°C~+85°C
Working Humidity	20~80%

Environment performance test

Project	Test condition	Test results
Storage environment	Test temperature, humidity, pressure without stated condition as follwings:1.Temperature: -30°C ~ +80°C;2.Relative humidity: 45%-85%;3,Pressure: 86kpa-106kpa	Electrical and mechanical performance normal
High and low temperature test	Having 5 times cycle between -40°C to 70°C,Then in common condition 1-2 hours test exterior quality.	Measurement satisfied with electrical and mechanical performance normal.
Resistance constant hot and humid test	Relative humidity:95±3%,Test temperature: 40°C,last 2 hours ,put it after 5 min test the electrical function .Test products during common condition 1-2 hours ,Then test exterior quality.	Measurement satisfied with electrical and mechanical performance normal.
Vibration test	Vibrate Frequency:10-55HZ; Distance :0.35mm;Acceleration :50.0m/s;Sweep frequency cycle:30 times	Electrical and mechanical performance normal
Fall test	From 1m height fall down 3 times freely (vertical direction)	Electrical and mechanical performance normal