



SHUN DA CHENG TECHNOLOGY CO, LTD

# Antenna Test Report



Customer Name: Singui Peak Technology Co.Ltd.

Project Name: TongGuan

Band: WIFI

Version: A

Date: 2023-12-08



# ***Content***

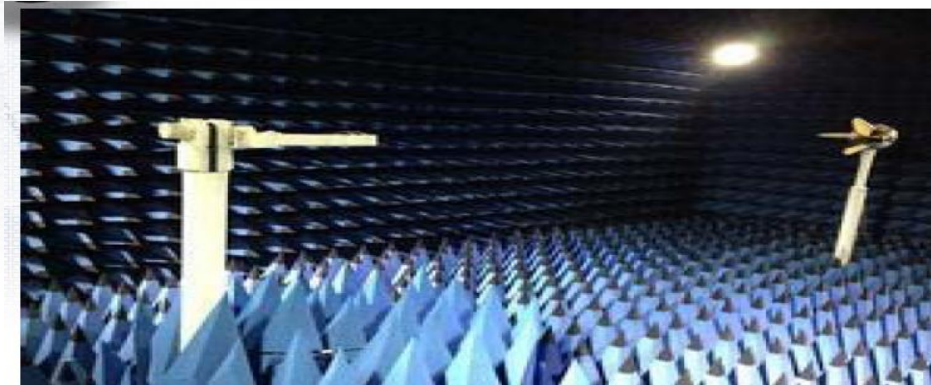
- 1. Antenna Matching Network**
- 2. *S11* Parameter-VSWR**
- 3. 1 Gain & Efficiency**
- 3. 2 3D Pattern**
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- 5. Antenna Assembly & environmental processing**
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## 1. Test system

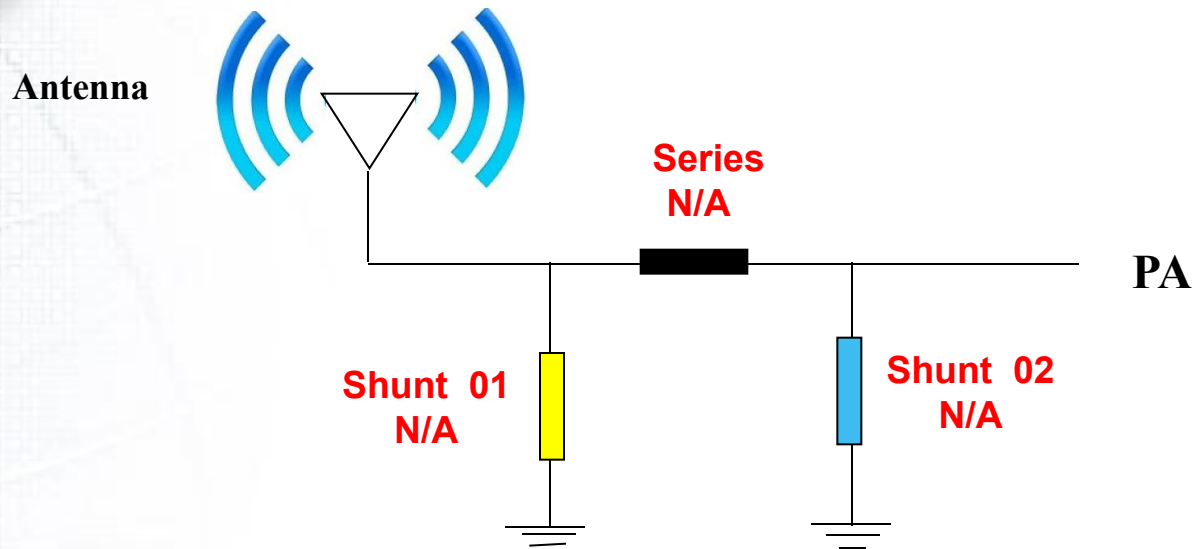
Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	Agilent 8960 E5515C& Agilent 4438C&CMW500 &CMW2 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C





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## 2. Antenna Matching Network



Location	Description	Vendor
Shunt 01	N/A	N/A
Series	N/A	N/A
Shunt 02	N/A	N/A

**Unchanged  
motherboard  
matching  
circuit**



# S11 Parameter-SWR





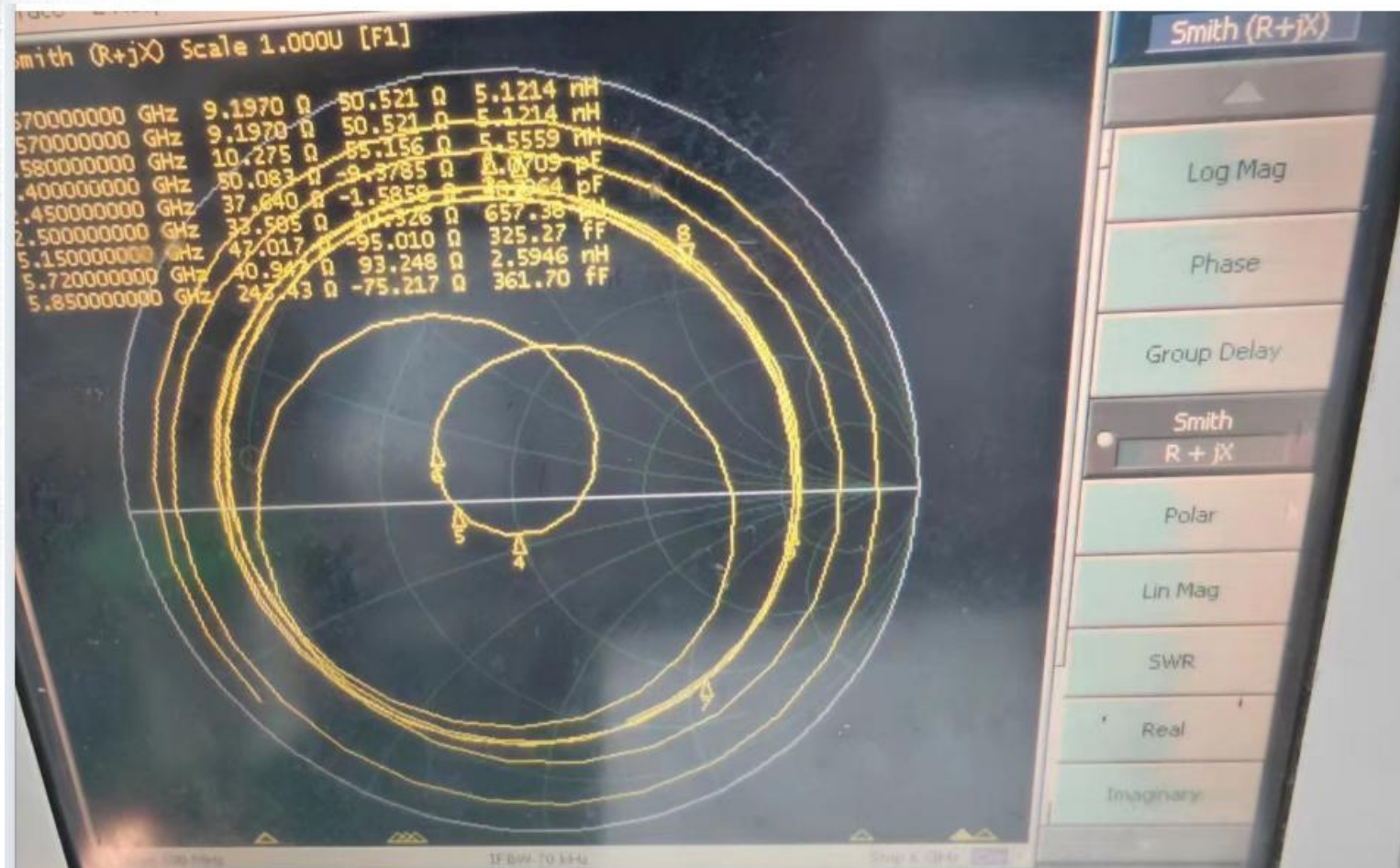


# S11 Parameter-Log Mag





# S11 Parameter-Smith



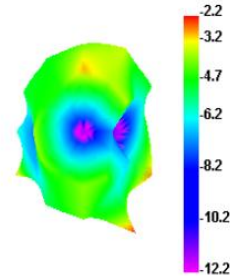




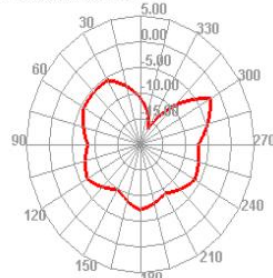
# Gain & Efficiency

Passive Test For 2.4G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	38.15	-3.86	0.75	-4.38	0	0	1.08	-16.52	4.12	30	47.77	47.82
2425	41.83	-3.78	1.16	-4.09	0	0	1.16	-13.83	3.94	30	48.06	48.12
2450	38.93	-4.57	0.89	-2.67	0	0	0.89	-14.72	4.05	30	48.56	48.53
2475	39.06	-4.08	0.93	-1.81	0	0	0.93	-16.94	4.42	30	48.46	48.26
2500	42.11	-3.76	1.22	-1.07	0	0	1.22	-13.76	4.83	30	48.42	48.12

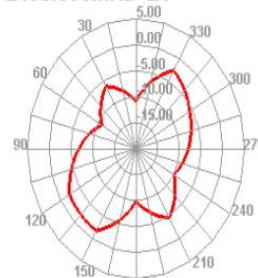
2400.000MHz



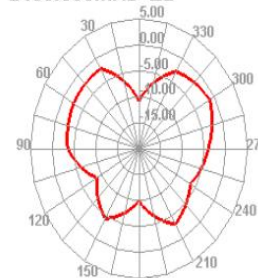
2400.000MHz H



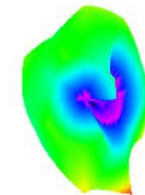
2450.000MHz E1



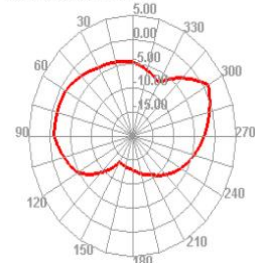
2450.000MHz E2



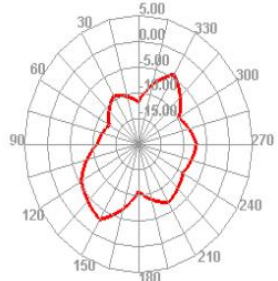
2500.000MHz



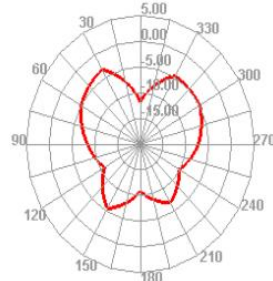
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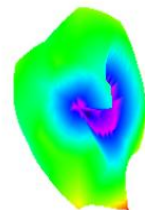
2400.000MHz E1



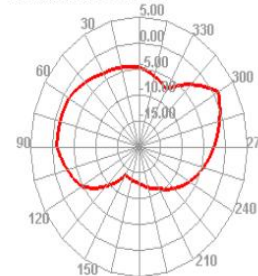
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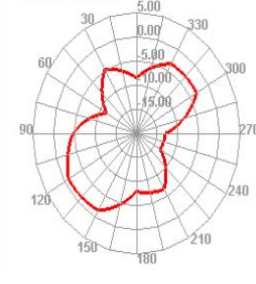
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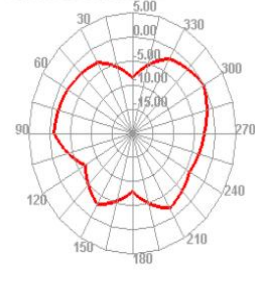
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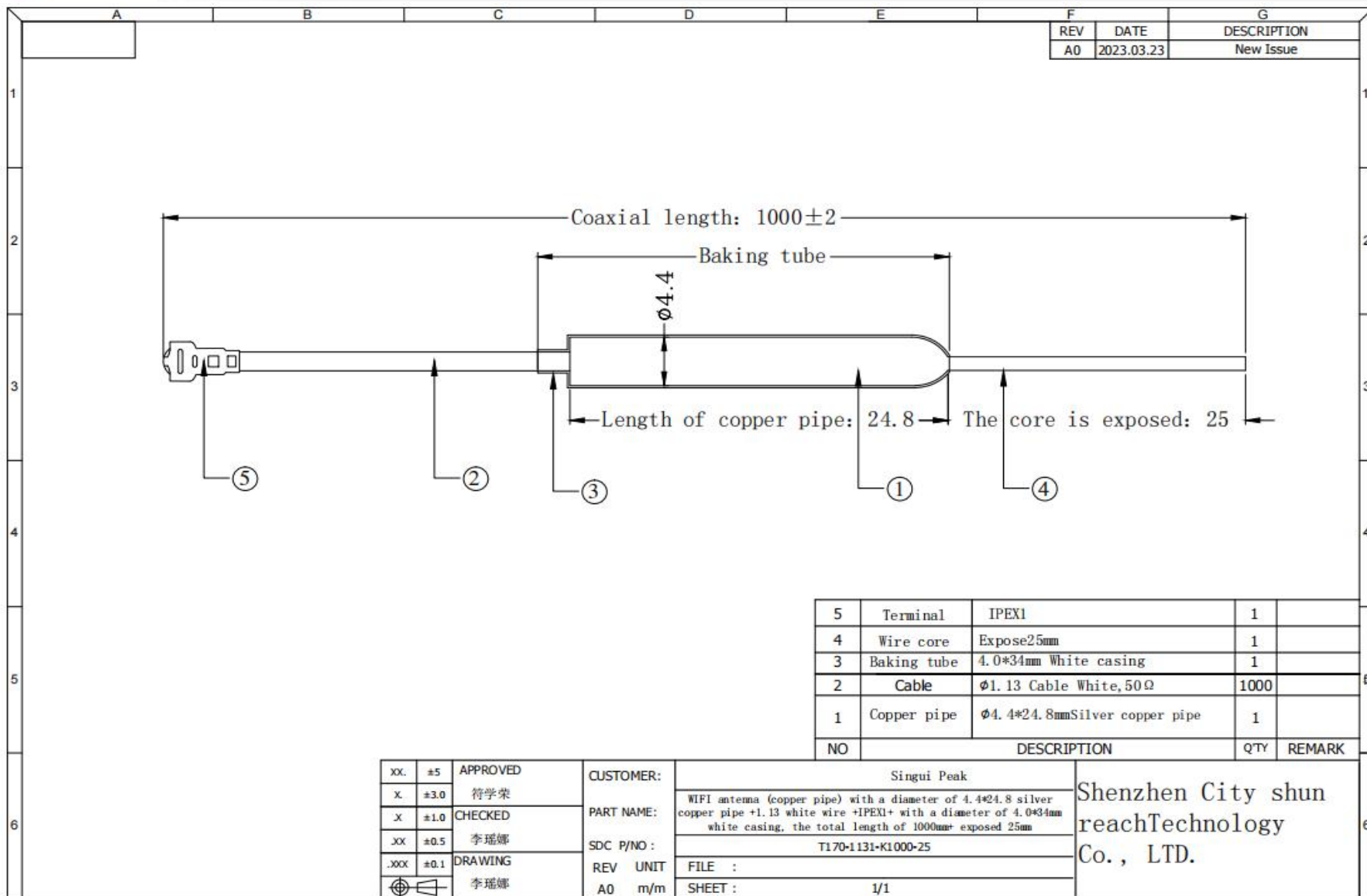
2500.000MHz E1



2500.000MHz E2









Thank you for your support

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