

SPECIFICATION

Shenzhen Strongpower Communication Co., Ltd

ShenzhenStrongpowerCommunicationCo.

SPECIFICATION

Customer	Shenzhen new core electronics Co., LTD	Frequency Band	2402MHz-2480MHz
Model	OTW-324		
Serial No	RQ03B143701B-BT	Color	True Colors
RF designer	Zou Lijun	Structural engineer	Zhou Jun
Technical director	Fu Yicheng	Date	2025/3/21

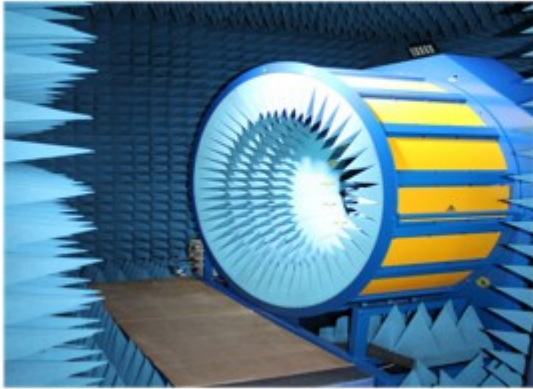
Confirm by customer:

INDEXES

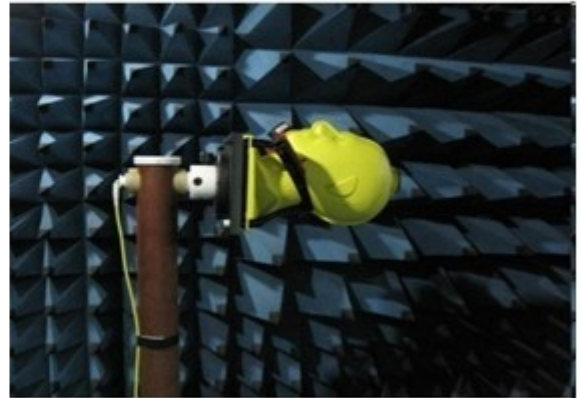
1. The equipment of Active&Passive test.....	3-4
2. Passive test..	5-6
2.1 S Parameters..	5
2.2 Passive Efficiency and Gain	5
2.3 Passive pattern.....	6
3.Active test..	6
3.1 TRP&TIS test.....	6-7
4.Matching Circuit.....	7
5.Engineering drawing	8

1. The Equipment of Active&Passive Test

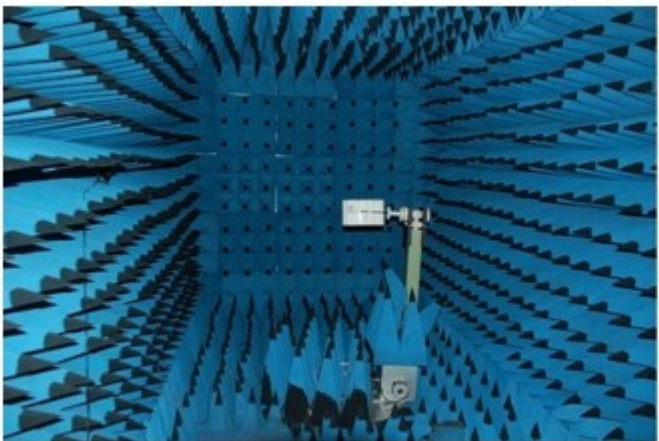
chamber



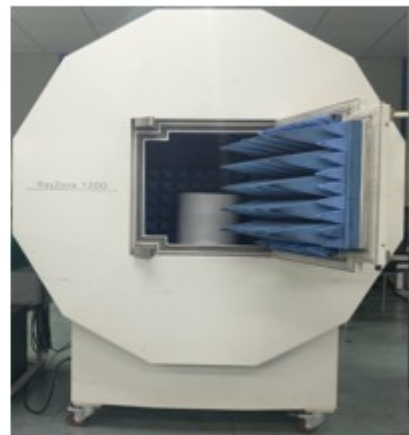
Satimo



Airlink



Guang Ping

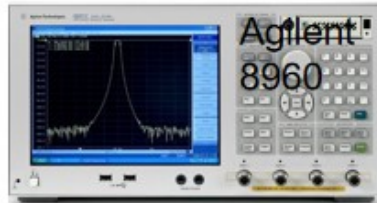


GTS

equipment



R&S
CMW500



Agilent
8960



Anritsu
MT8820C



Agilent
N4010A



Agilent
E4438C
Signal
Generator



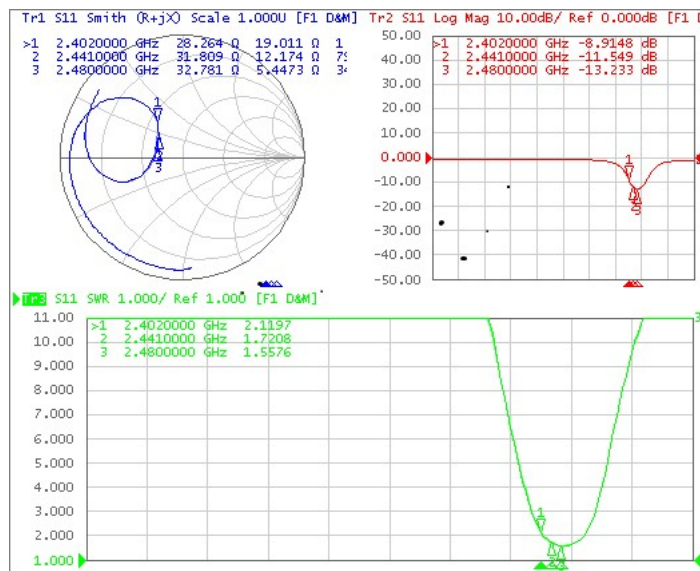
Agilent
E5071C



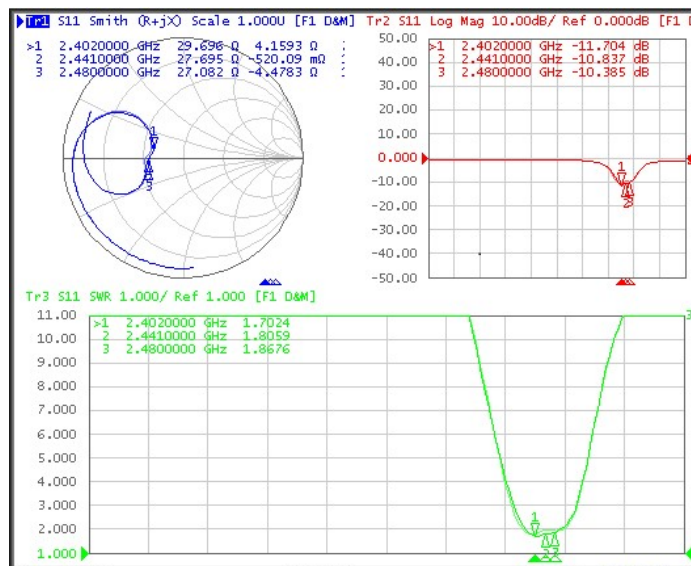
2. Passive Test

2.1 S Parameters, VSWR, Smith Chart

R: S11 Parameter (free space)



L: S11 Parameter (free space)



2.2 Passive Efficiency and Gain

L: Efficiency and Gain(free space)

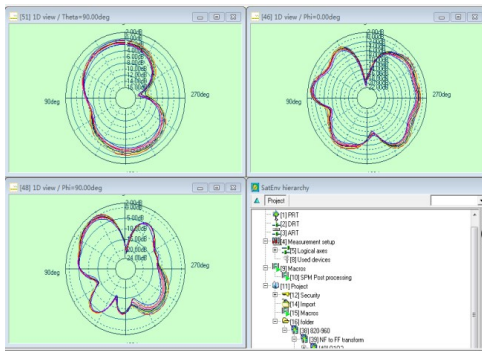
frequency (MHz)	Efficiency %	Gain dBi
2400	50%	1.06
2410	49%	1.15
2420	46%	0.8
2430	46%	0.64
2440	43%	0.26
2450	41%	0.36
2460	39%	0.31
2470	37%	0.25
2480	35%	0.29

R: Efficiency and Gain(free space)

frequency (MHz)	Efficiency %	Gain dBi
2400	48%	0.89
2410	50%	1.12
2420	48%	0.98
2430	50%	1.16
2440	48%	1.03
2450	48%	1.04
2460	46%	0.70
2470	44%	0.49
2480	42%	0.45

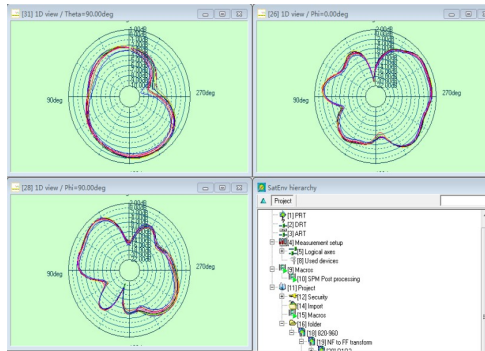
2.3 Passive pattern

L



Theta=90 Phi=0° Phi=90°

R



Theta=90 Phi=0° Phi=90°

3.Active test

3.1 TRP&TIS

FS-R

信道 CH	TRP (dBm)	TIS (dBm)
0	2.39	-88.36
39	7.65	-90.62
78	9.05	-90.1

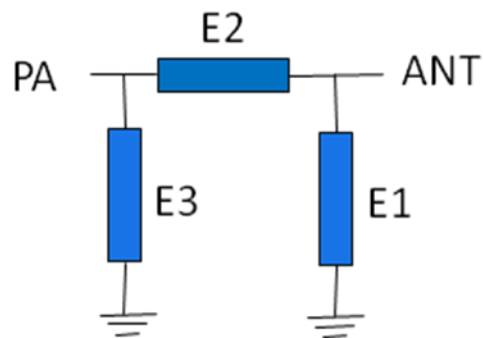
FS-L

信道 CH	TRP (dBm)	TIS (dBm)
0	7.28	-89.75
39	7.84	-89.65
78	5.53	-89.81

4. Matching Circuit

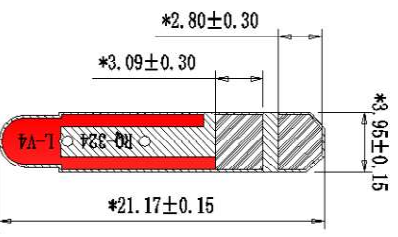
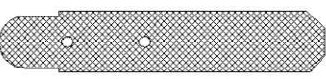
Left&Right are the same

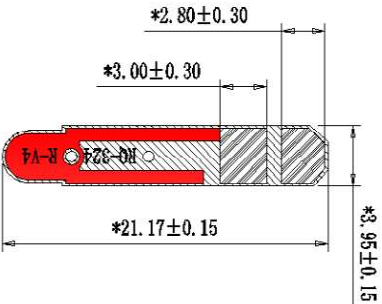
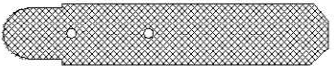
Element	E1	E2	E3
Value	2PF	0 Ω	NC



5. Engineering drawing

(see next page)

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