



GB8773 Antenna test report

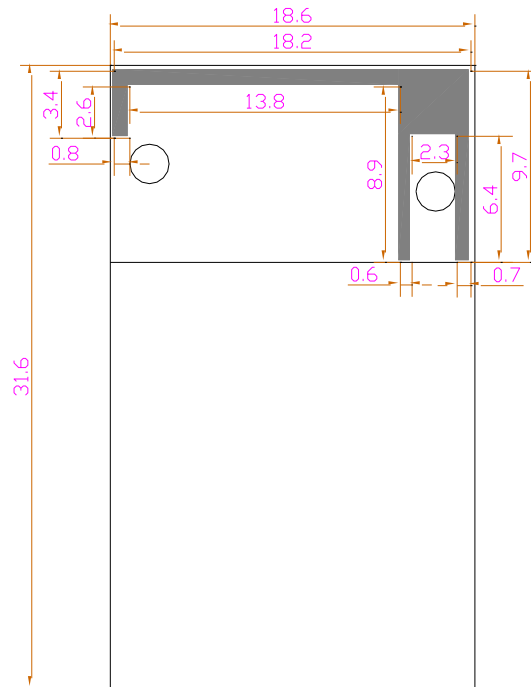
Catalogue

- Test site, equipment, test method
- Module physical picture
- Matching spec
- Test environment
- Antenna passive data

1、 Antenna name: B12

2、 Antenna Type/ Pattern: PCB Antenna

3、 Antenna dimension figure:

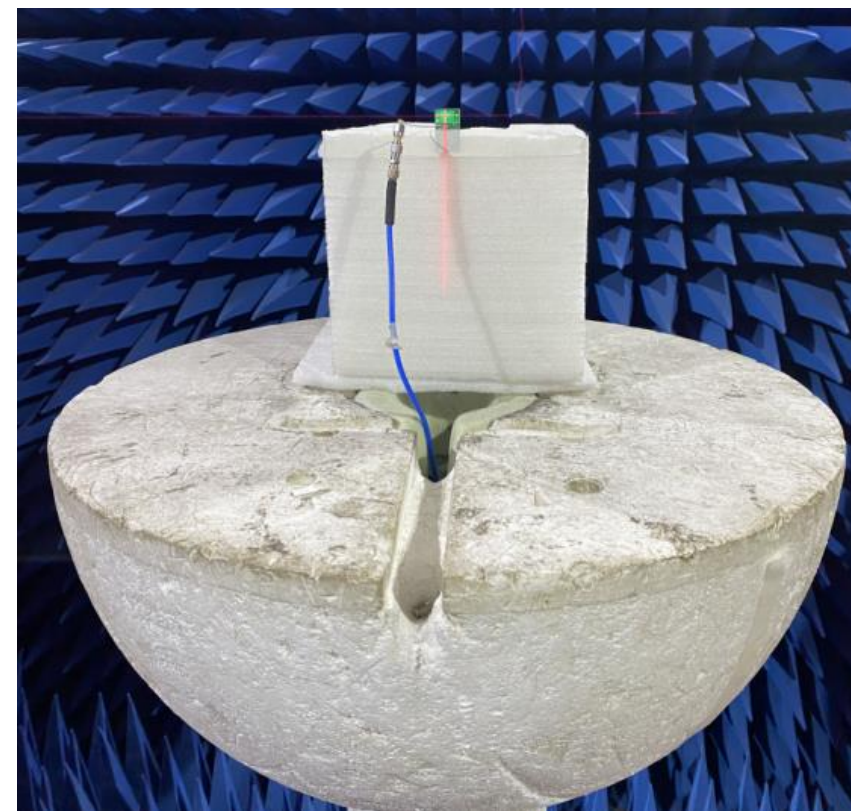


Test site, equipment, test method

- Site: No. 34 Shilong Avenue, Shiyan Street, Baoan District, Shenzhen City; Zhongtian Xun SATIMO SG24 darkroom
- Experimental software : Satimo.Spm Version : 1.5.5
- Standard of experiment : GB/T 9410-2008
- Table of experimental equipment

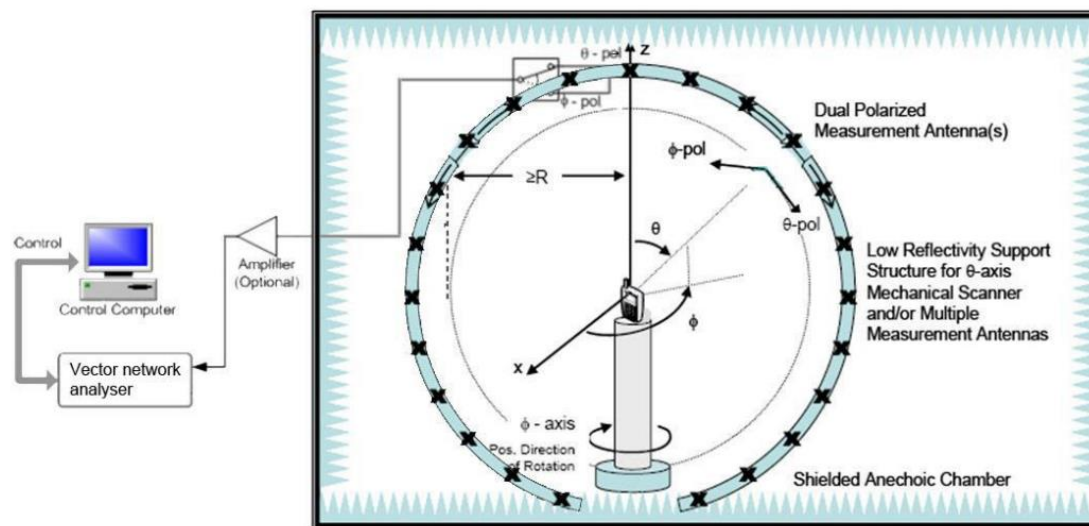
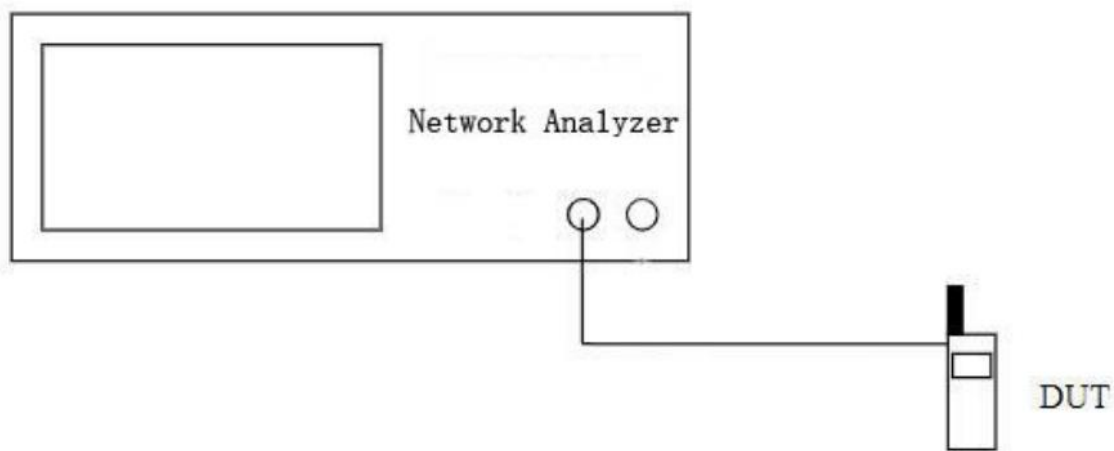
Test instrument	Manufacturer	Manufacturer	Series No.	Date of calibration	Calibration expiration date
Network analyzer	Keysight	E5071C	MY47002902	2023. 04. 20	2024. 04. 19
	Agilent	E5071C	MY46521960	2023. 04. 20	2024. 04. 19
SG24 antenna test system	SATIMO	SG24		2023. 04. 20	2024. 04. 19

- Test setup photo
- 1. Antenna s11, s12 parameters testing :

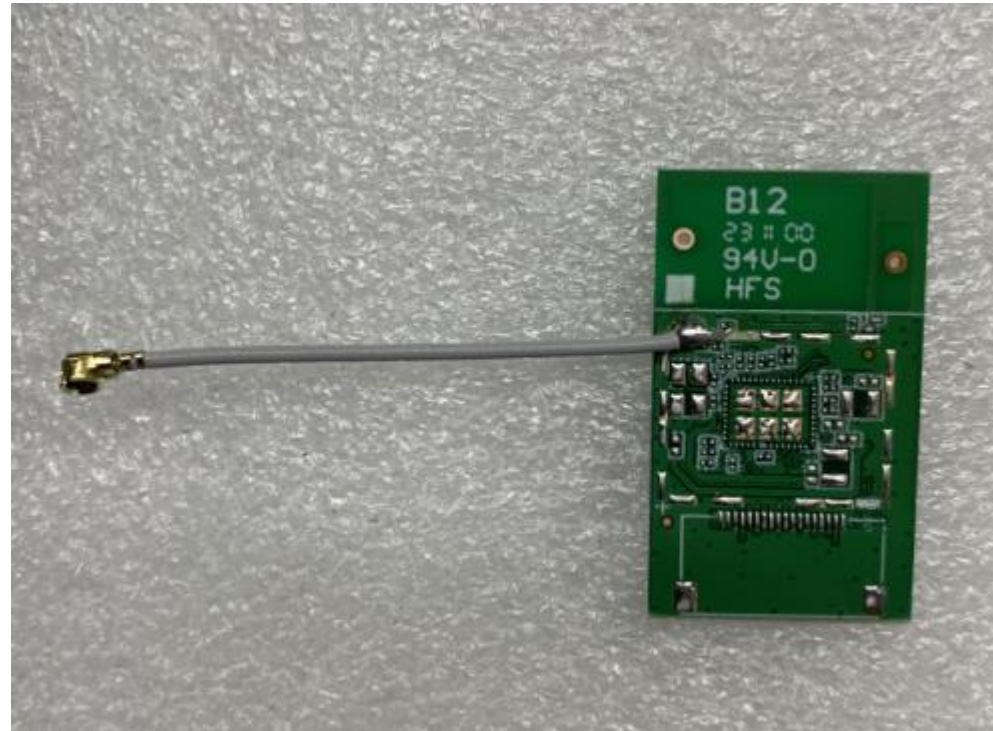


- Test program
- 1. Antenna s11, s12 parameters testing :

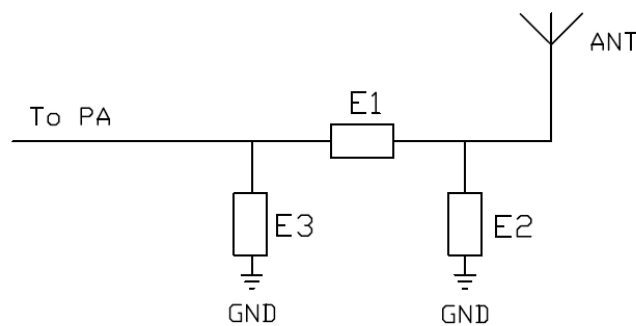
- 2. Antenna efficiency, gain and pattern test:



Module physical picture

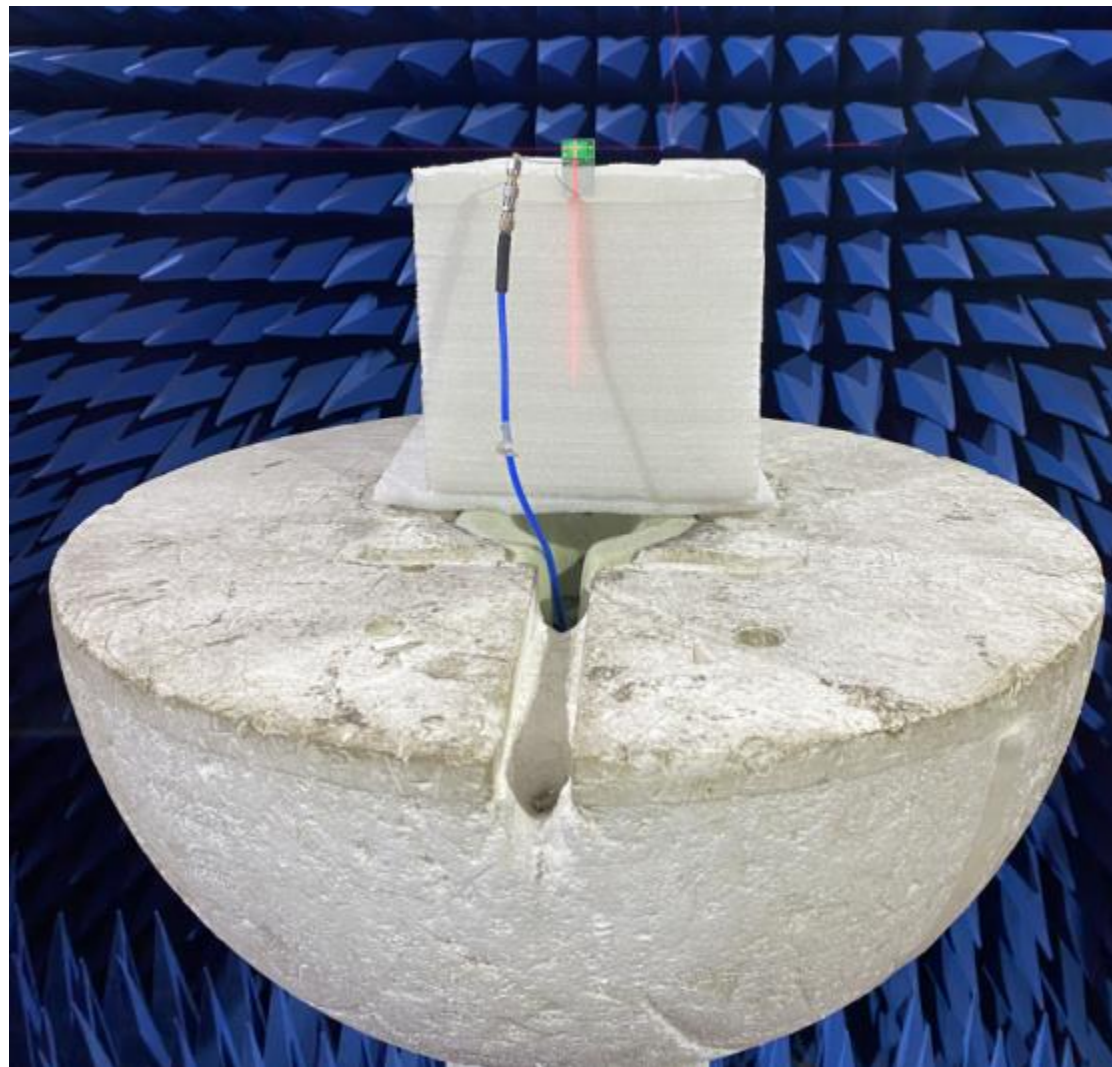
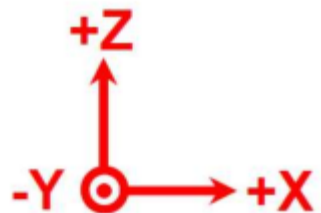


Matching spec

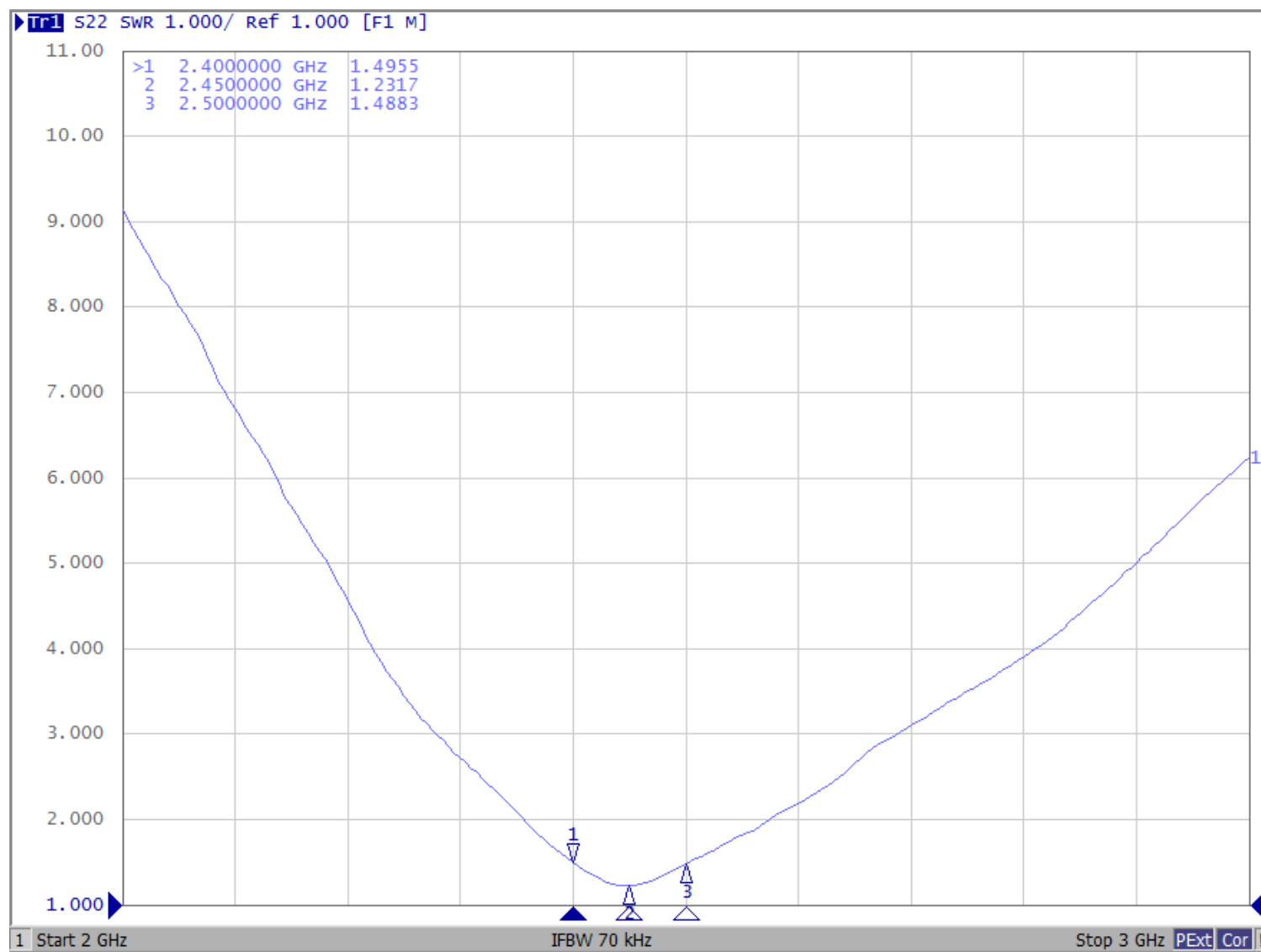


匹配说明	
E1	3.3nH
E2	0.3pF
E3	NC

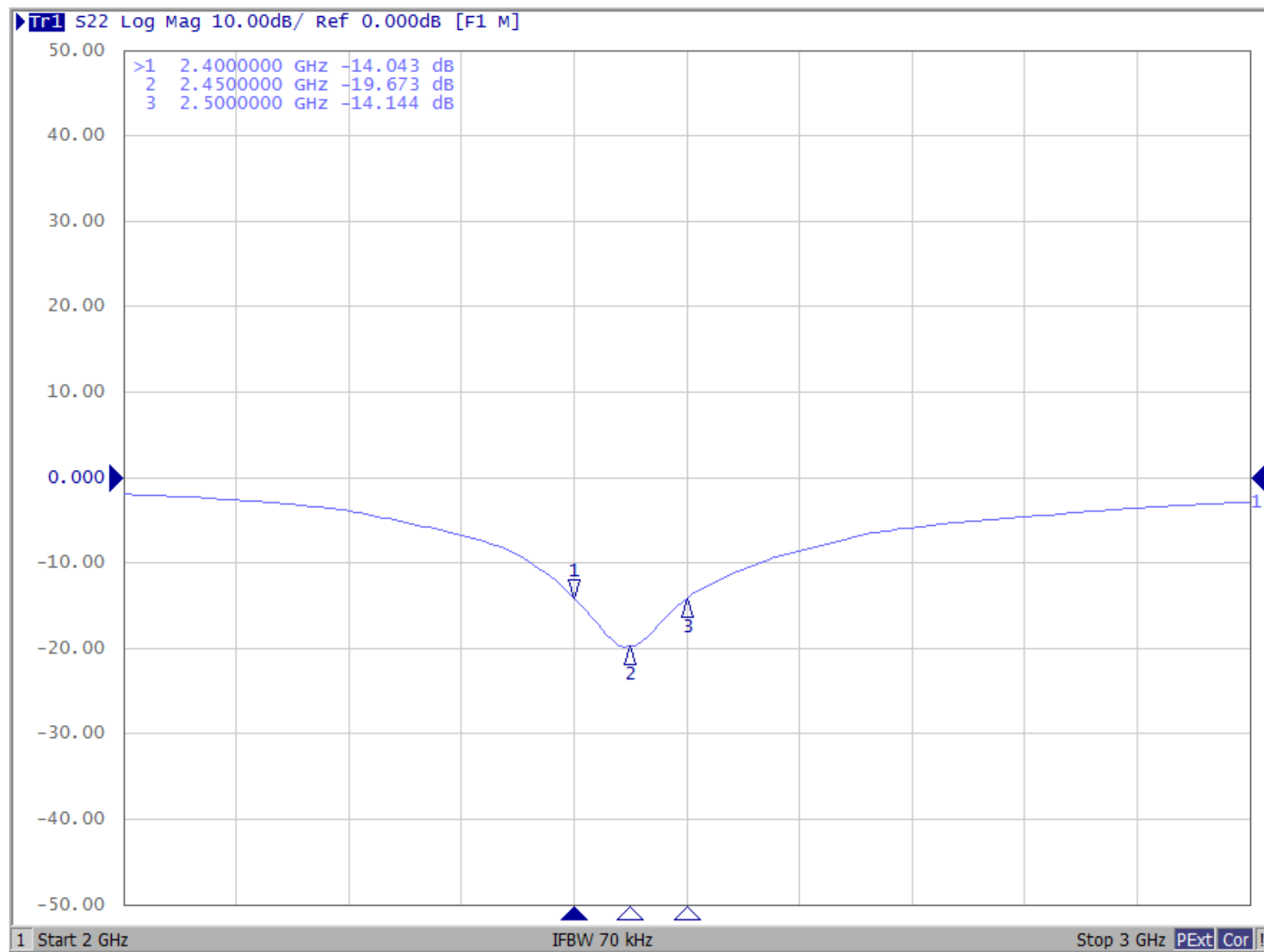
Test environment



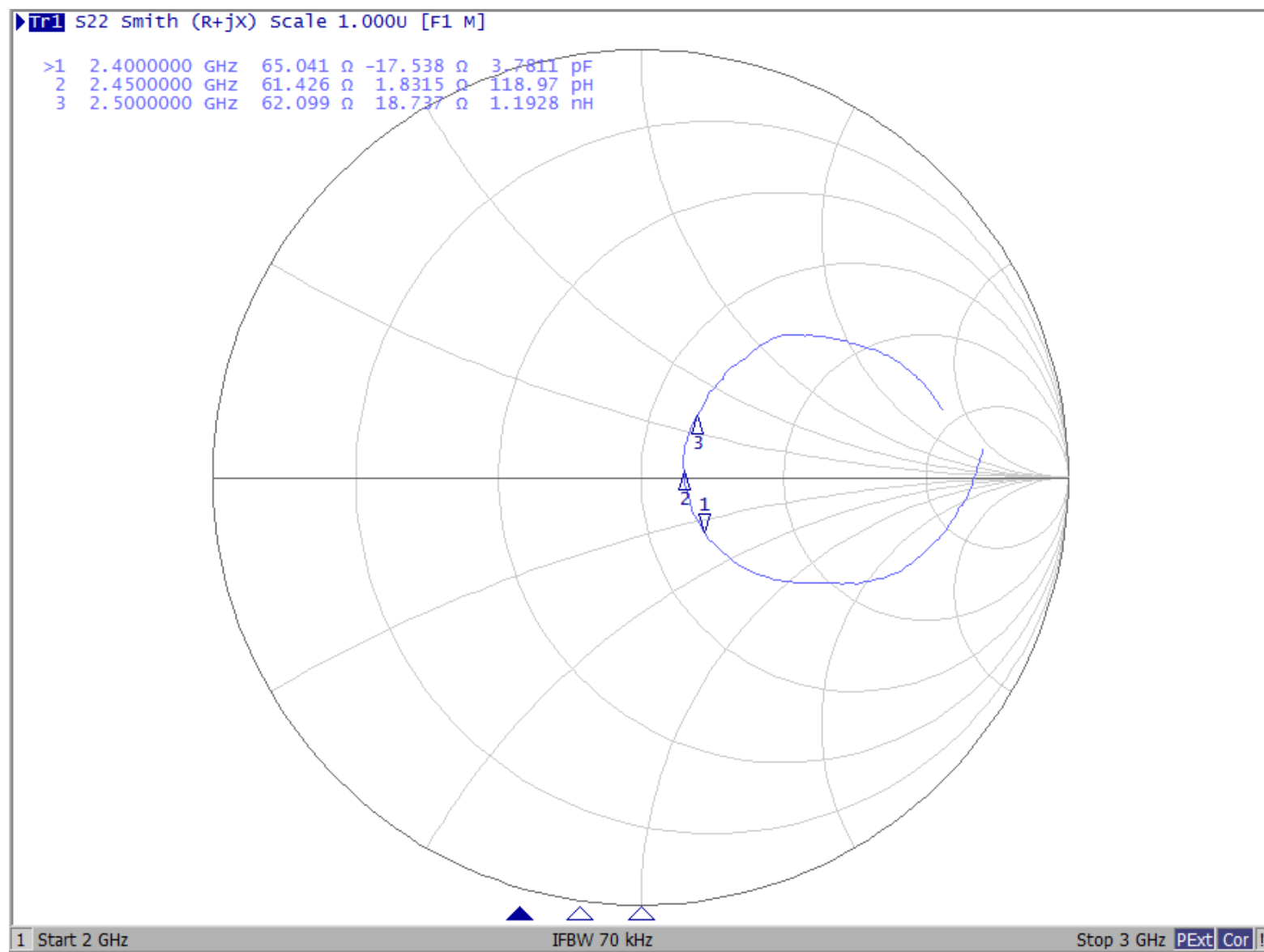
VSWR



Return loss



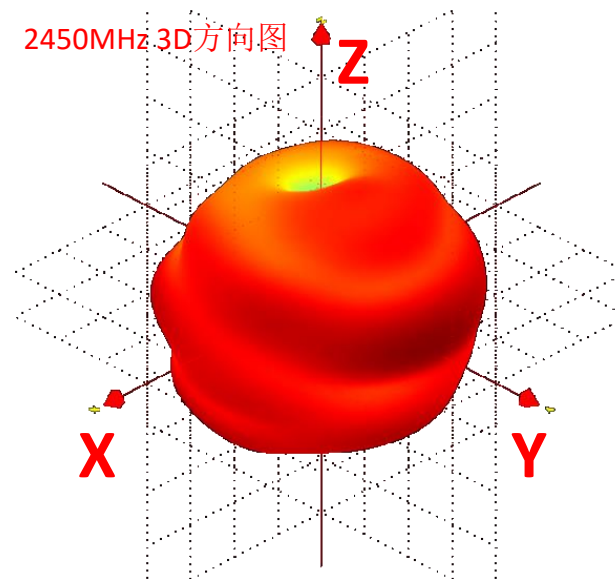
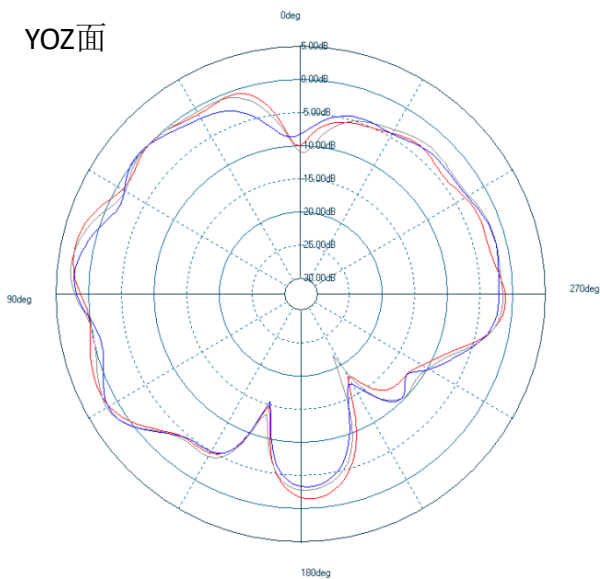
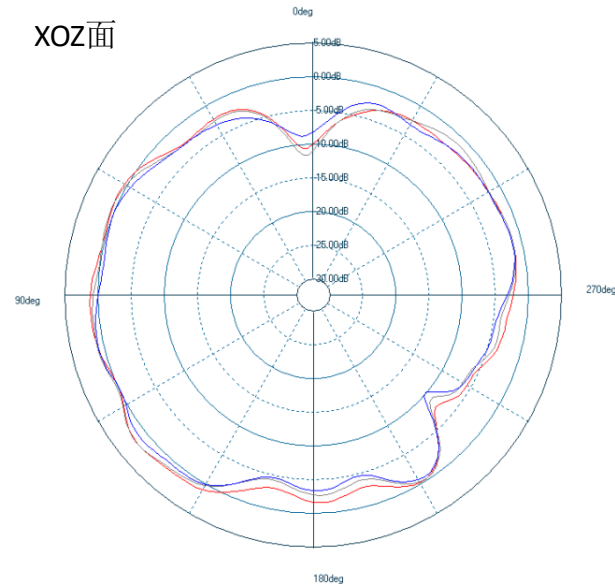
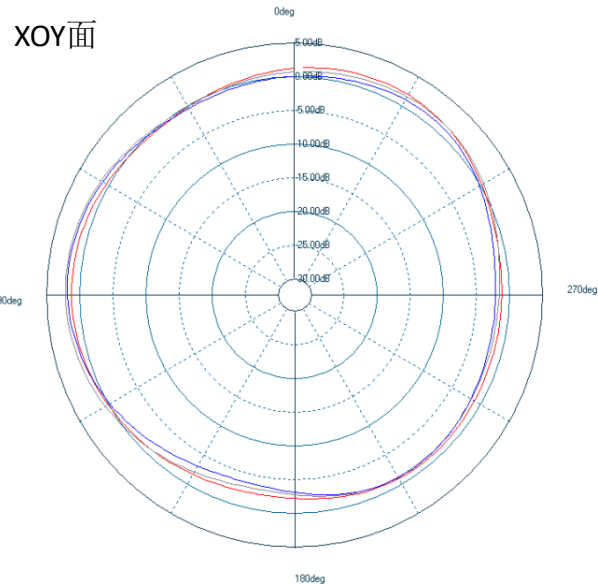
Smith Chart



Passive Gain&Efficiency

Frequency Mhz	Efficiency		Peak Gain
	%	dB	dB
2400	63.85	-1.95	2.68
2410	63.06	-2.00	2.62
2420	63.79	-1.95	2.71
2430	66.60	-1.77	2.94
2440	68.01	-1.67	3.10
2450	65.70	-1.82	2.87
2460	64.09	-1.93	2.67
2470	63.71	-1.96	2.39
2480	61.88	-2.08	2.24
2490	60.91	-2.15	2.01
2500	61.56	-2.11	2.22

Directional diagram



Thank You

