



SPECIFICATION FOR APPROVAL

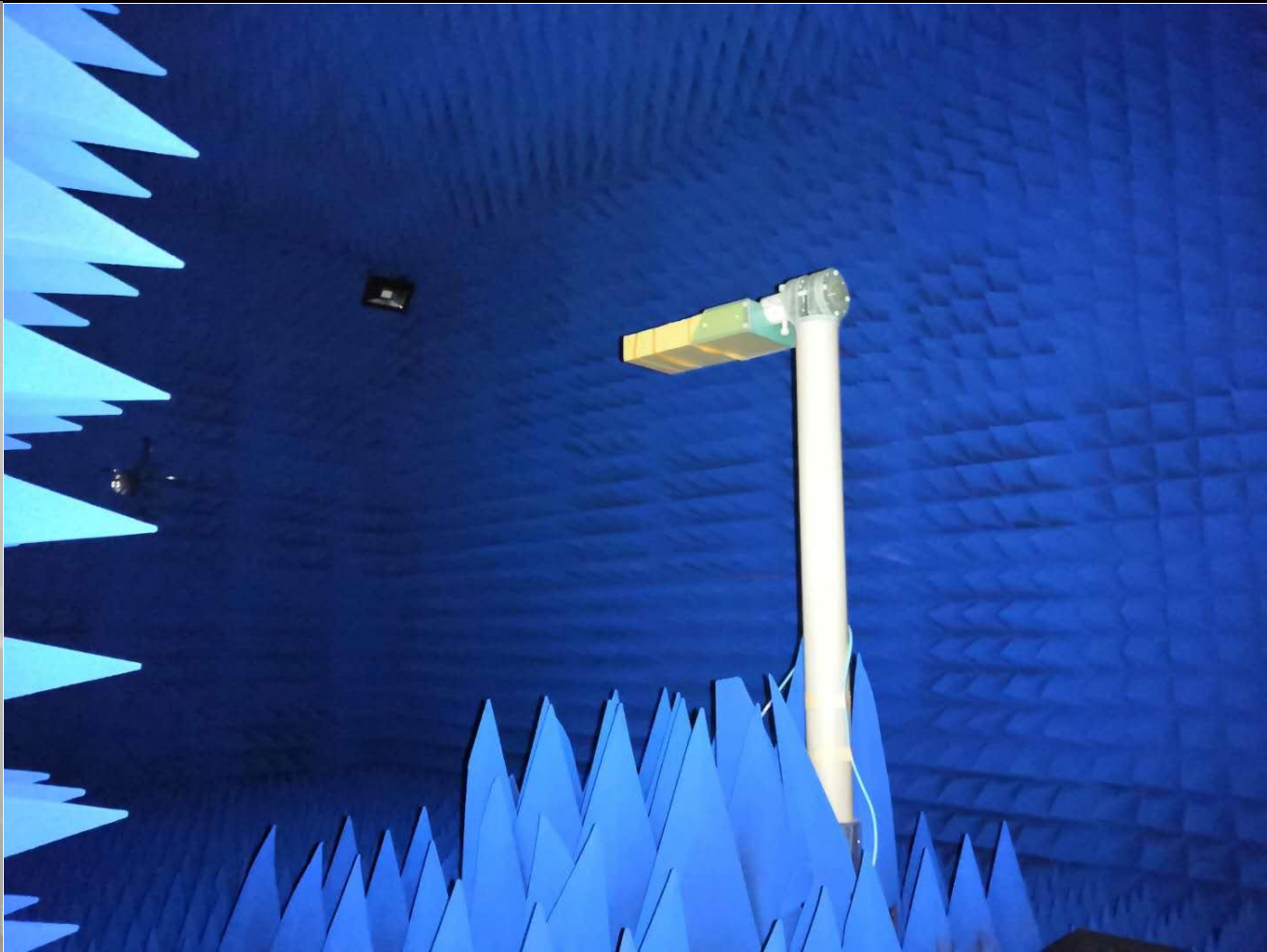
Client : Suzhou YiShiYi Intelligent Technology Co., Ltd.

Band: PCB ANT

Name: A10/V533



Testing Instrument	Agilent Technologies E5071B & R&S CMW500
Darkroom	Atenlab M3
Testers	KEVIEN
Temperature	25℃
Humidity	65% (RH)





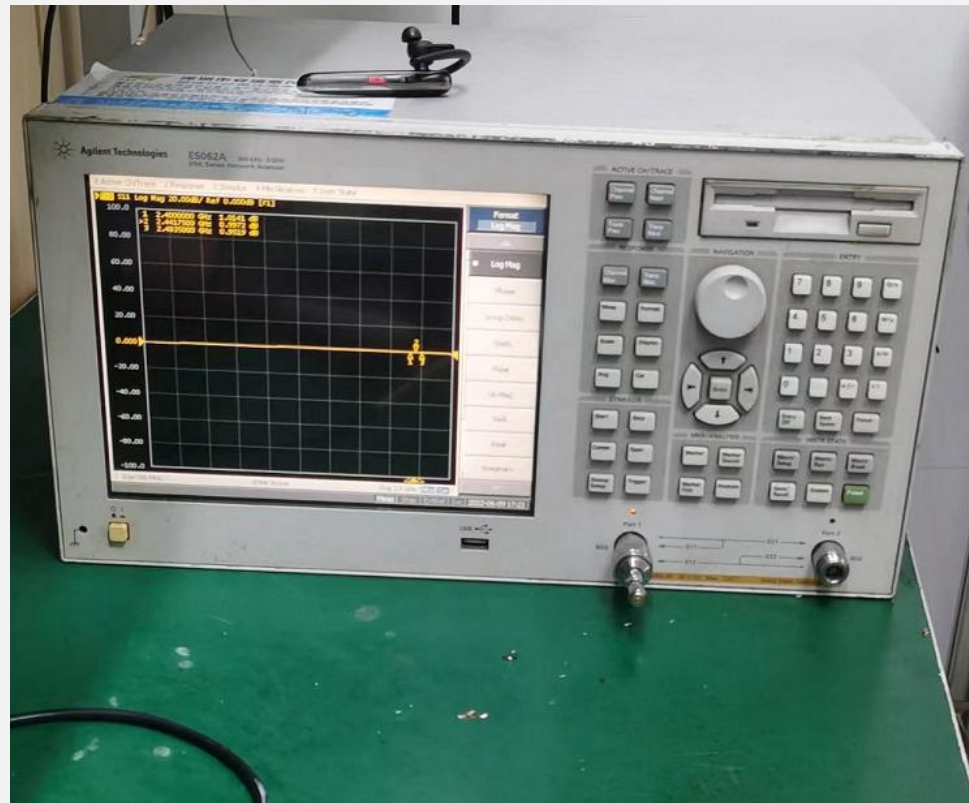
1. Test system description---S Parameter
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4. Antenna
5. Test Result---Return Loss and Efficiency
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1.Test system description---S Parameter

1.1. Test Setup

1.1.1 VNA Test Setup

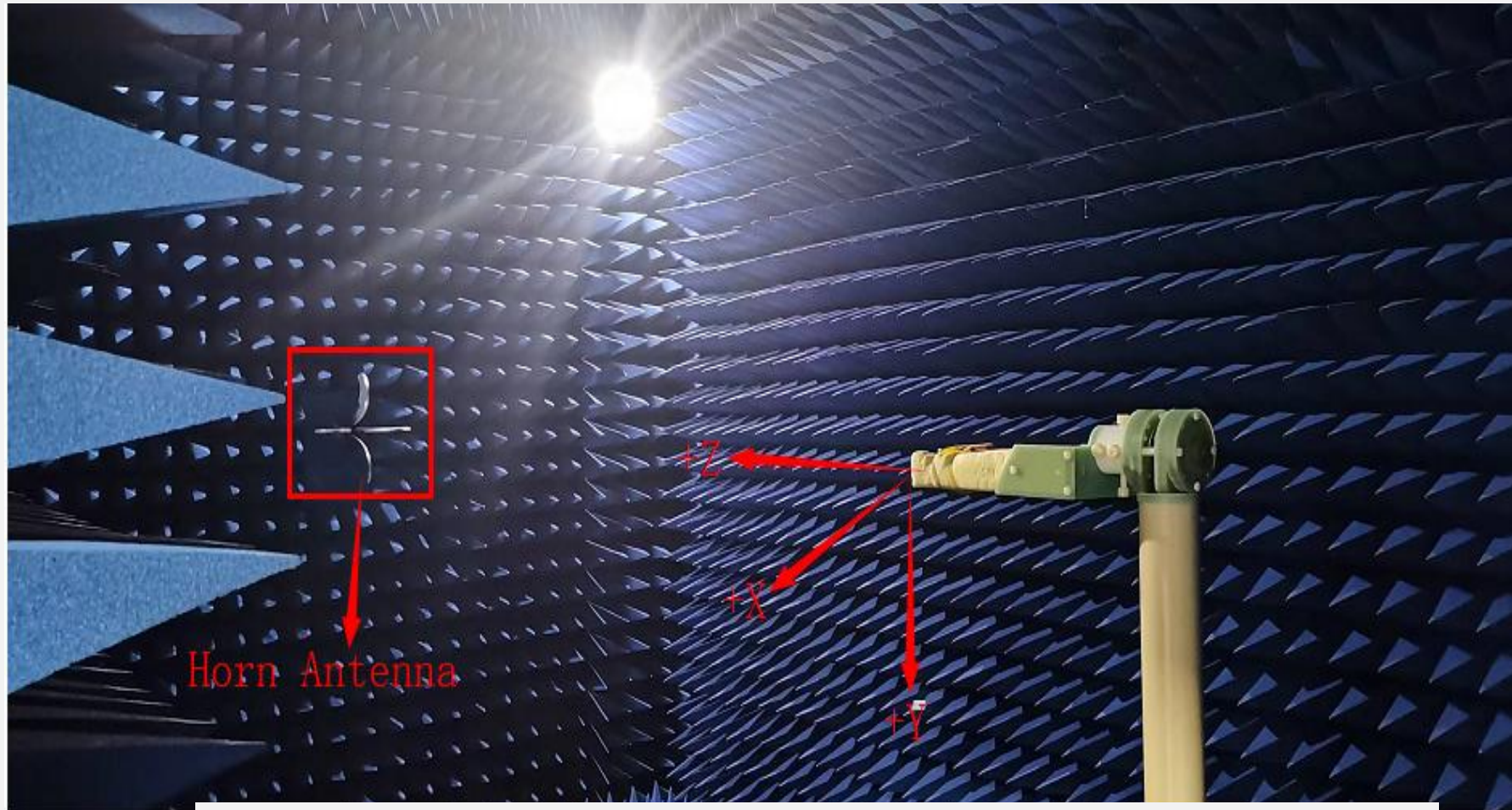
S parameter measurements (S_{11}) were performed using an Keysight 5071B Network Analyzer and previously described tests fixtures. The isolation between antennas is also tested. The testing was performed with apparatus in free space.



2.Test system description--- Anechoic Chamber Test Setup

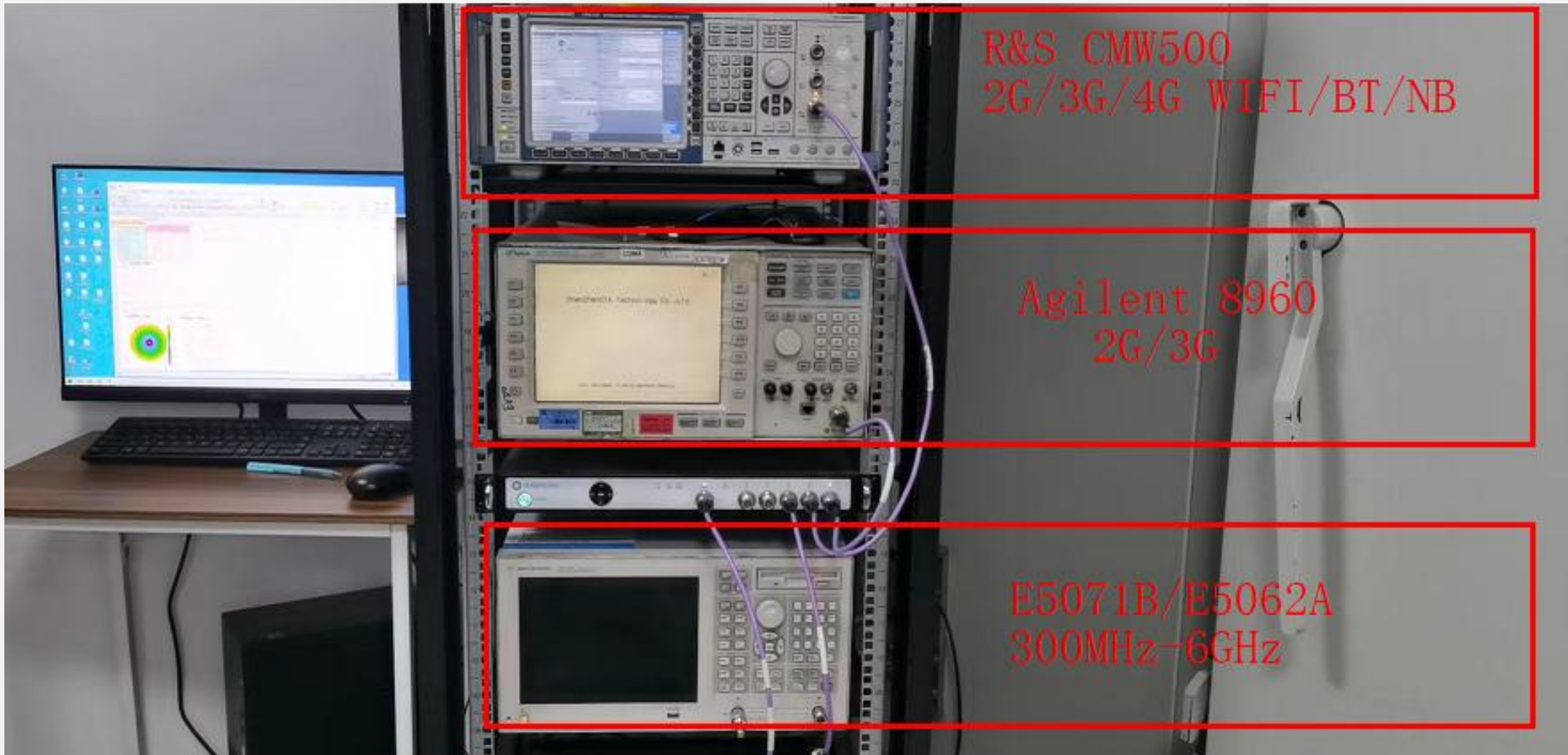
1.1.1 Anechoic Chamber Test Setup

The gain of the antenna was measured in the anechoic chamber(ETS-3D). The chamber provides less than -30 dB reflectivity from 400 MHz through 9 GHz. The chamber size is:7m*4m*3m.The measurement results are calibrated using a leaky wave horn standard. We can measure the antenna gain and efficiency accurately.



3. Test system description--- Test Instruments

1.1.3 Instruments

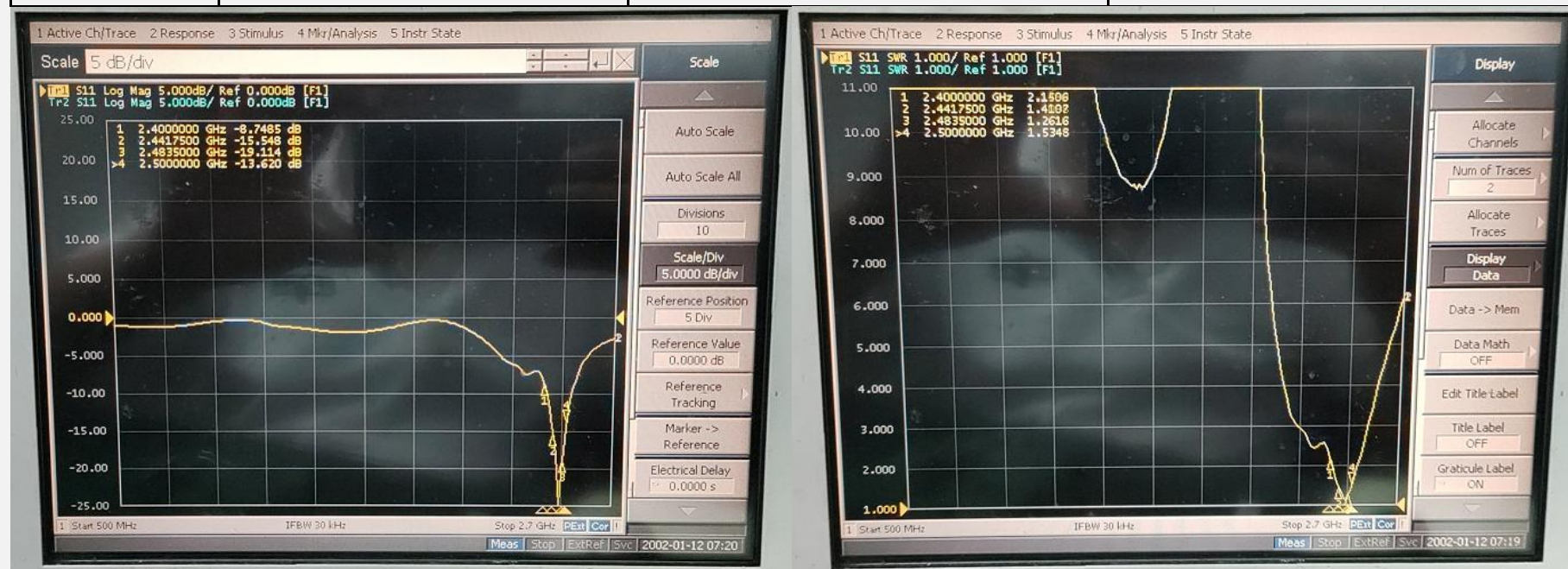


5. Test Result---Return Loss and Efficiency

S11 (GM5) :

LTC ANT S11 parameter Summary

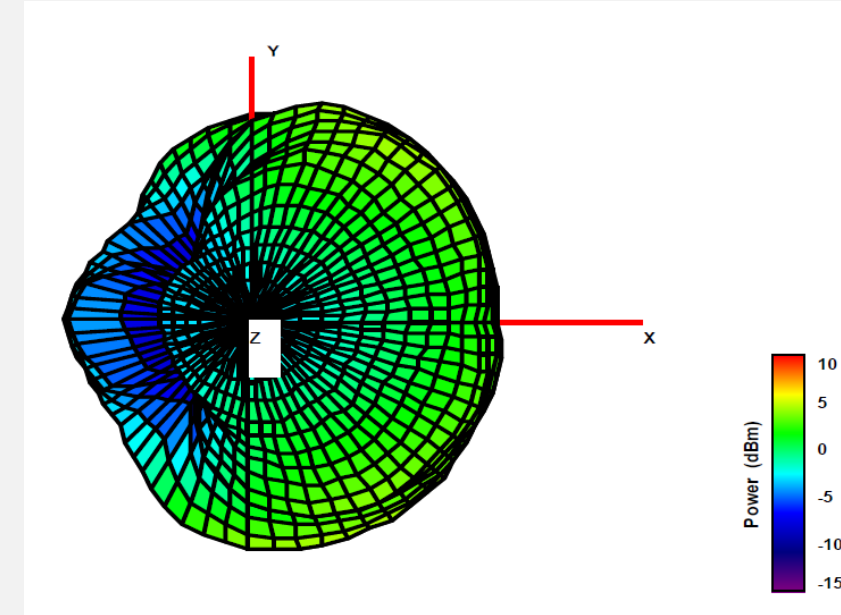
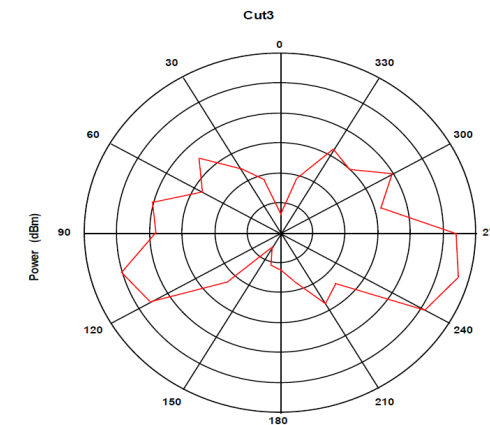
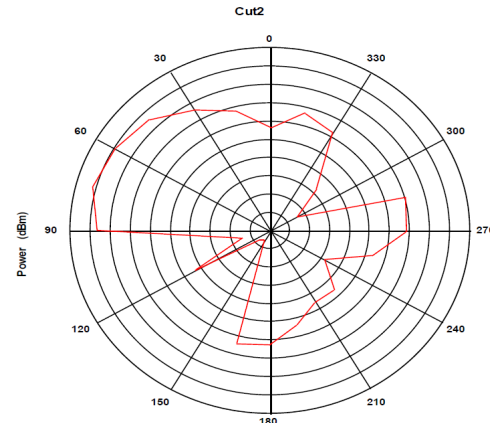
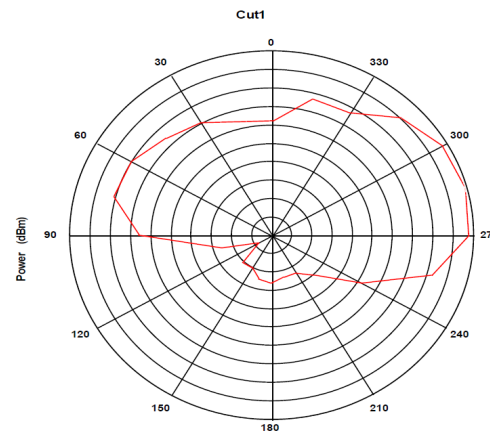
Band	2400-2500 (MHz)		
	2400	2450	2483
R. L (dB)	-8.7	-15.5	-19.1
VSWR	2.1	1.4	1.2



6. Gain efficiency

Data:

Frequency (MHz)	Efficiency(%)	Gain(dBi)
2300	34.81	-0.14
2320	38.90	0.50
2340	38.95	1.16
2360	40.11	1.28
2380	39.28	1.80
2400	41.77	2.20
2420	49.71	2.34
2440	50.23	2.58
2460	45.91	2.45
2480	42.46	2.09
2500	41.10	2.01
2520	35.58	0.96
2540	32.43	0.44



7.schedule drawing (工程图)

