

WIFI Antenna Test Report



Customer	百思威
Project	723专用-5G WIFI双频天线
Antenna Revision	A0
Product Description	
Product No	

2026.05.20

Purpose

This report is to measure the performance of antenna for All test date are showed as below.

Content

1: Product Overview

2: Test Result

2.1 VSWR

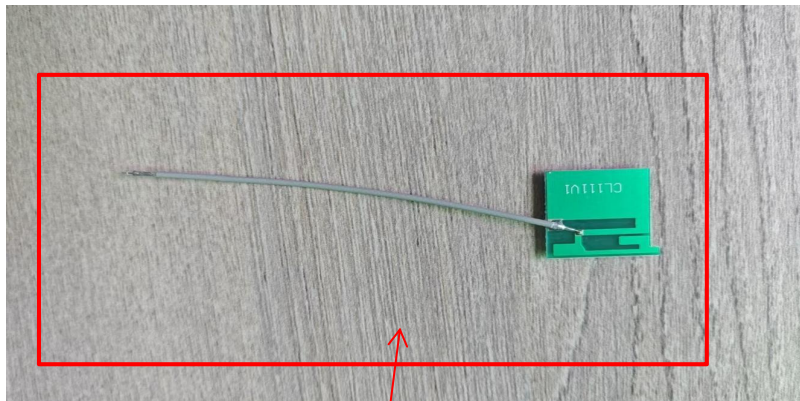
2.2 RETRUN LOSS

2.3 GAIN & Efficiency

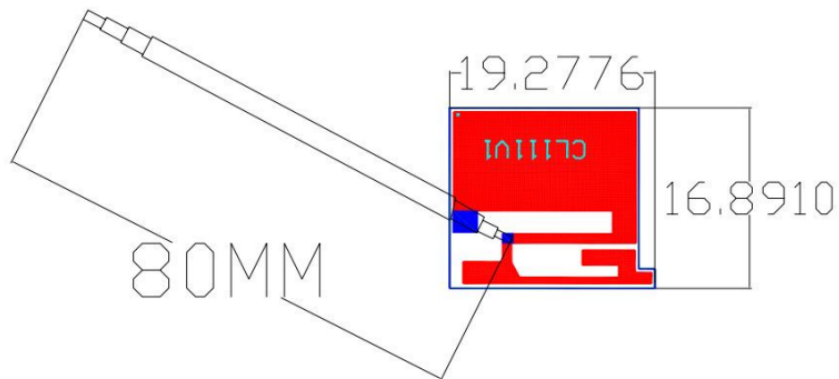
2.4 *2D & 3D Directional pattern*

1. Product Overview

Antenna frequency

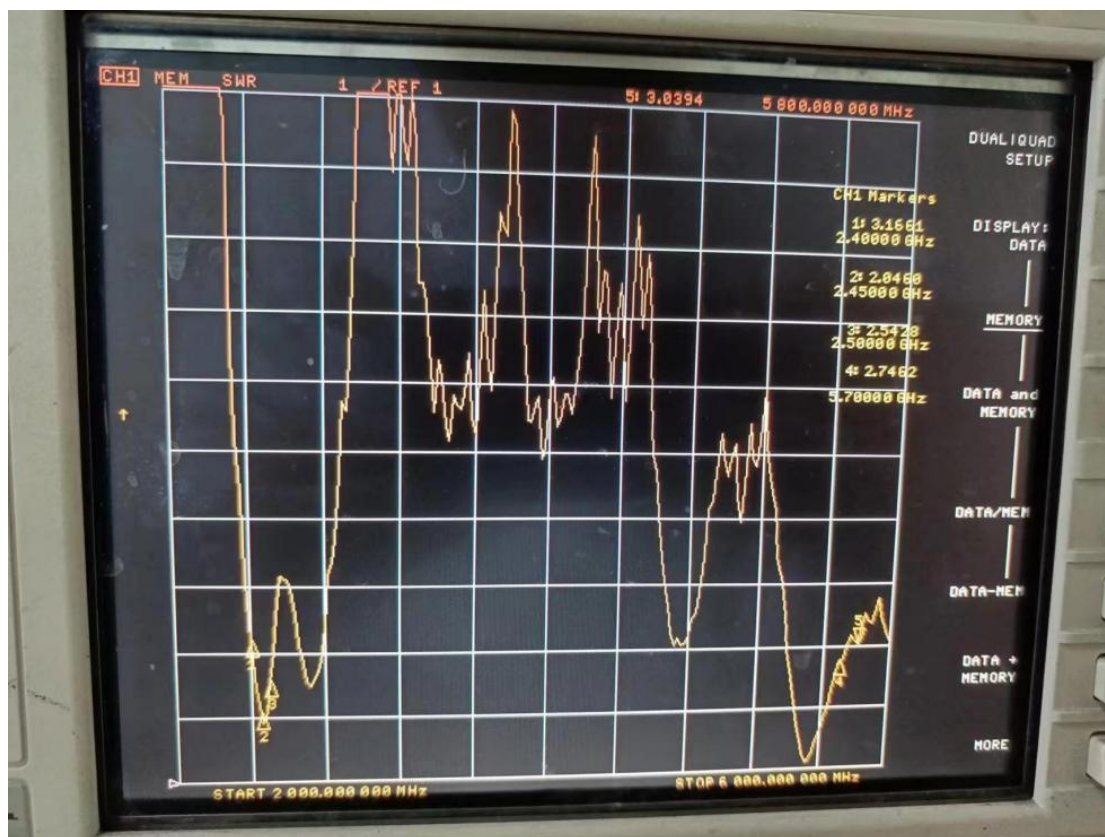


WIFI双频天线



2. Test Result

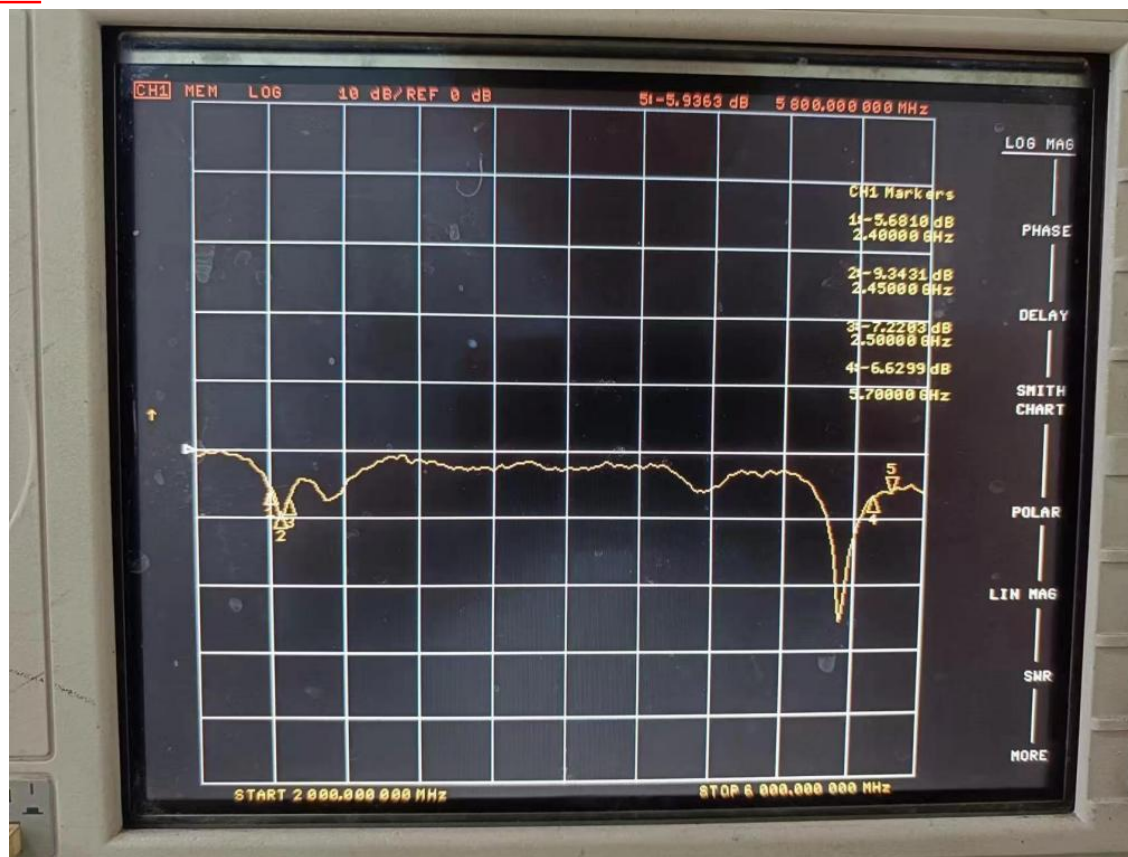
2.1 WIFI双频天线 VSWR



Frequency (MHz)	2400	2450	2500	5700	5800
VSWR	3.16	2.04	2.54	1.26	3.03

2. Test Result

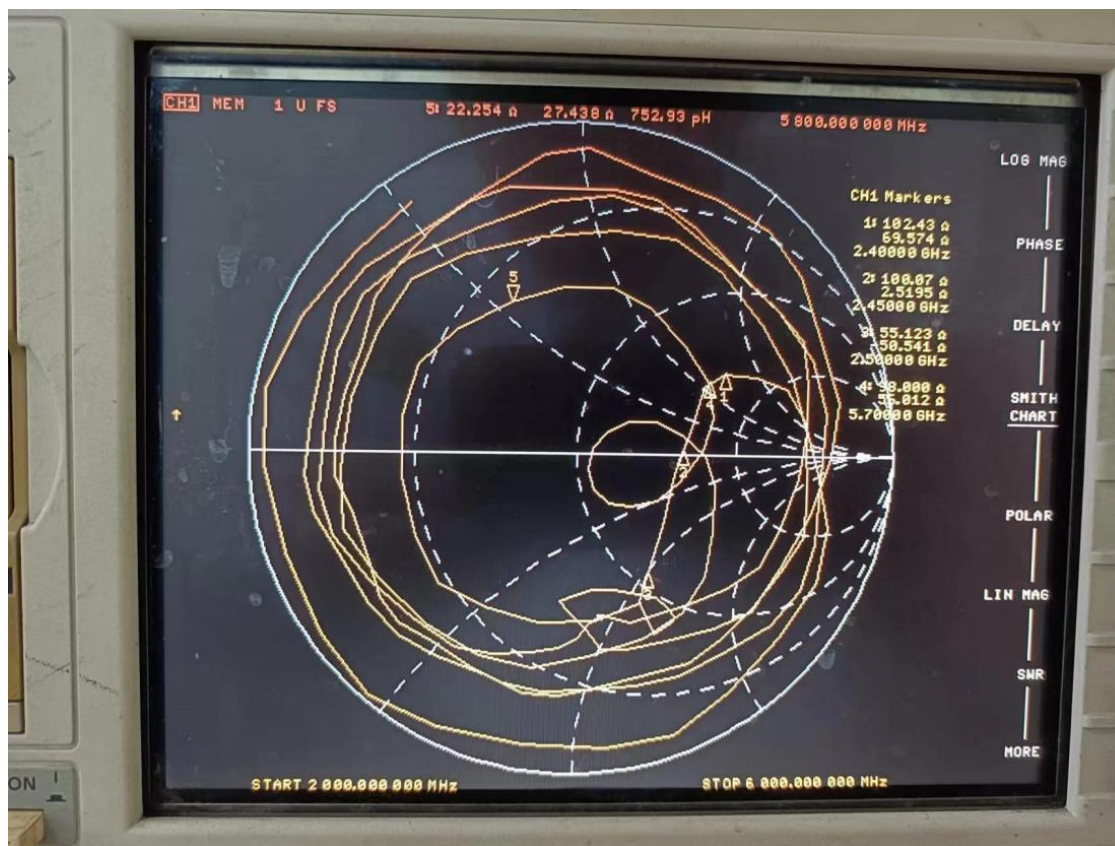
2.2 WIFI天线 RETRUN LOSS



Frequency (MHz)	2400	2450	2500	5700	5800
RETRUN LOSS (DB)	-5.60	-9.34	-7.22	-8.95	-5.93

2. Test Result

2.2 WIFI天线 smith圆图



Frequency (MHz)	2400	2450	2500	5700	5800
	102.4	100.0	55.12	74.62	22.25

2. Test Result

2.3 WIFI双频天线 GAIN & Efficiency

Freq (MHz)	Effi (%)	Gain (dBi)
2400	25	-1.21
2410	23.91	-1.75
2420	24.86	-2.05
2430	28.25	-1.45
2440	32.82	-0.69
2450	28.81	-1.16
2460	33.96	-0.37
2470	37.13	0.07
2480	38.41	0.21
2490	41.82	0.58
2500	43.51	0.9

Freq (MHz)	Effi (%)	Gain (dBi)
5050	44.07	1.85
5060	46.05	1.13
5070	47.99	1.8
5080	47.64	1.89
5090	48.72	1.68
5100	44.46	1.91
5110	45.49	1.67
5120	42.19	1.2
5130	46.64	1.55
5140	47.85	1.67
5150	47.29	1.18
5160	45.95	1.15

Freq (MHz)	Effi (%)	Gain (dBi)
5170	51.47	1.32
5180	52.23	1.36
5190	52.82	1.48
5200	46.89	1.18
5210	52.84	1.74
5220	53.97	1.98
5230	53.67	1.83
5240	51.26	1.79
5250	47.07	1.14
5260	51	1.62
5270	52.6	1.57
5280	51.47	1.32

Freq (MHz)	Effi (%)	Gain (dBi)
5290	44.07	1.85
5300	46.45	1.02
5310	47.29	1.18
5320	46.89	1.18
5330	47.07	1.14
5340	46.45	1.02
5350	46.25	1.93
5360	44.85	1.74
5370	43.56	1.51
5380	43.27	1.38
5390	44.18	1.36
5400	44.85	1.74

2. Test Result

2.3 **WIFI双频天线** GAIN & Efficiency

Freq (MHz)	Effi (%)	Gain (dBi)
5410	51.69	1.64
5420	42.9	1.96
5430	46.15	1.65
5440	42.29	1.5
5450	43.56	1.51
5460	46.47	1.72
5470	43.3	1.51
5480	41.73	1.62
5490	42.12	1.13
5500	43.27	1.38
5510	44.07	1.05

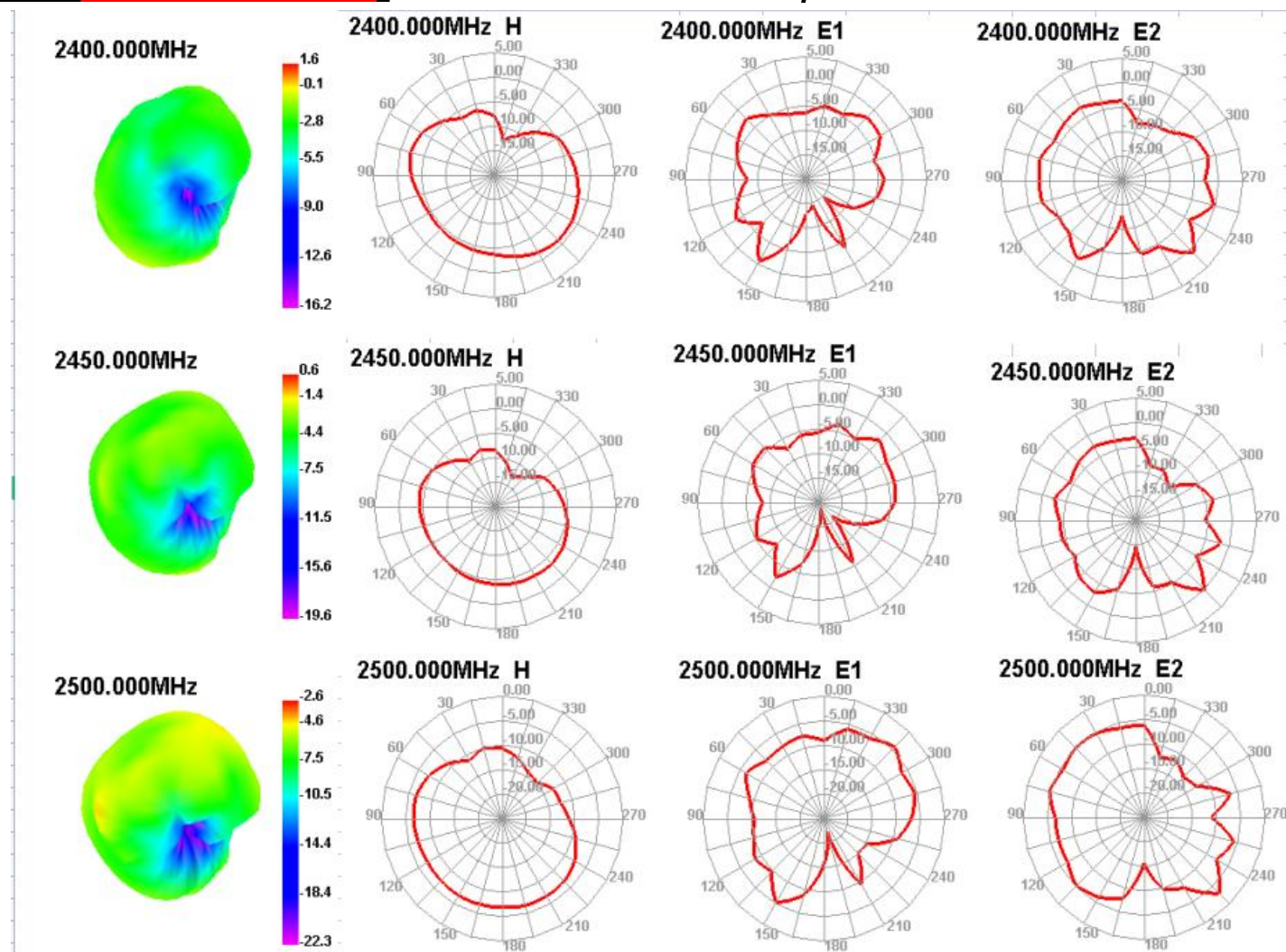
Freq (MHz)	Effi (%)	Gain (dBi)
5520	47.48	1.41
5530	45.04	1.35
5540	46.57	1.22
5550	44.18	1.36
5560	48.02	1.3
5570	43.3	1.08
5580	46.83	1.94
5590	43.08	1.81
5600	45.25	1.55
5610	43.03	1.89
5620	44.99	1.95

Freq (MHz)	Effi (%)	Gain (dBi)
5630	42.35	1.22
5640	43.25	1.36
5650	42.85	1.34
5660	44.02	1.25
5670	44.26	1.52
5680	45.36	1.47
5690	44.21	1.68
5700	40.78	1.3
5710	42.72	1.44
5720	45.91	1.32
5730	41.13	1.4

Freq (MHz)	Effi (%)	Gain (dBi)
5740	44.85	1.45
5750	42.25	1.66
5760	49.98	1.55
5770	44.62	1.63
5780	43.66	1.68
5790	43.99	1.73
5800	41.54	1.81
5810	43.25	1.74
5820	42.65	1.85
5830	42.75	1.81
5840	44.35	1.52

2. Test Result

2.4 WIFI双频天线 2D&3D Directional pattern



2. Test Result

2.4 WIFI双频天线 2D&3D Directional pattern

