

深圳市同讯精密技术有限公司

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Longhua District, Shenzhen, China

Customer	易检车服
Model	DP750
Antenna Revision	X/0
Product Description	FPC
Prepared by	LIDEWEN

Contact number : 15889421381

date : 2021.11.14

Content

1: Test Result

1.1 Antenna Matching Network

1.2 VSWR

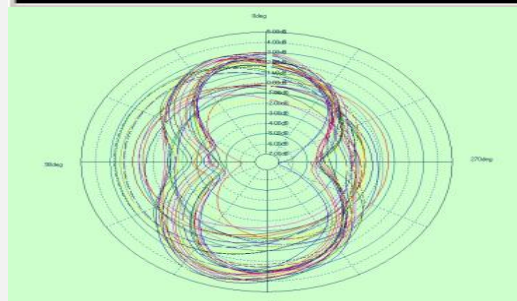
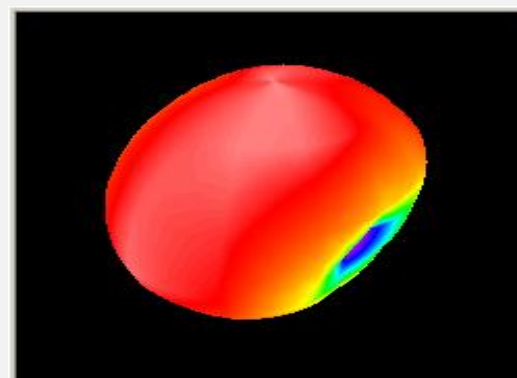
1.3 Gain & Efficiency

1.4 3D Data

2: Conclusion

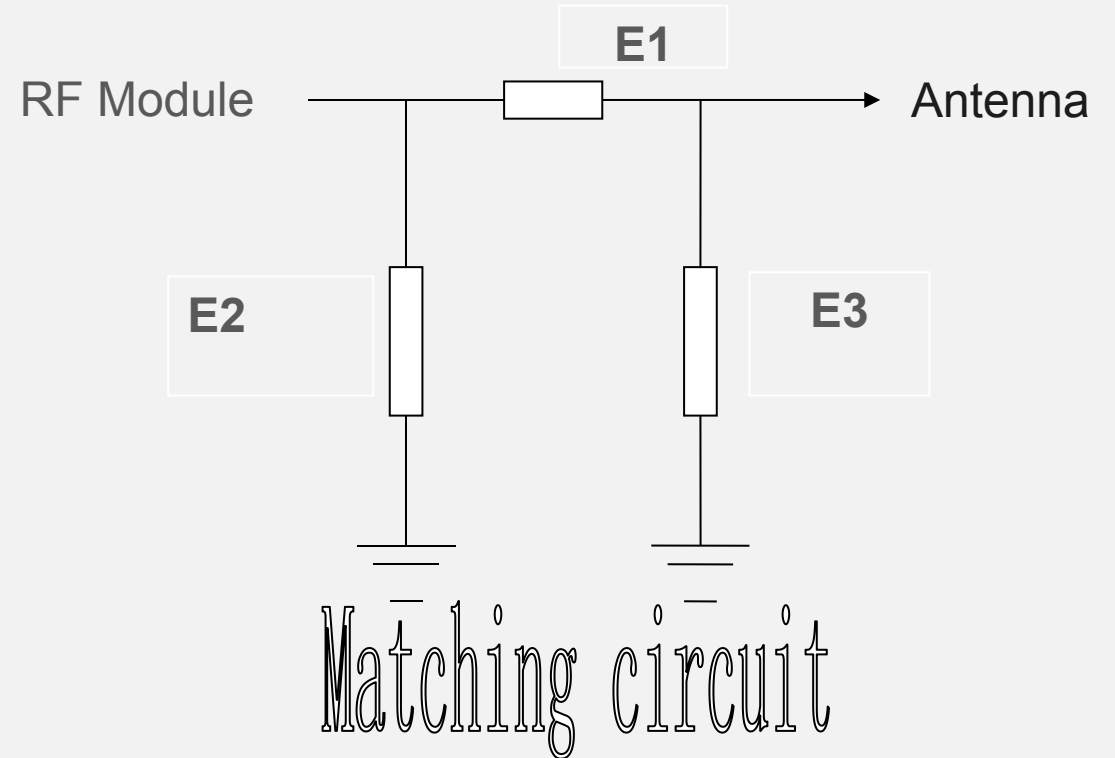
1.Test System

Sequence Number	Test Item	equipment
1. S parameter	VSWR	Agilent 5071C & Agilent 5062A
2. OTA Test	TRP&TIS	Agilent 8960 E5515C& Agilent 4438C&CMW500 &CMW270 ETS&SATIMO
3. Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C

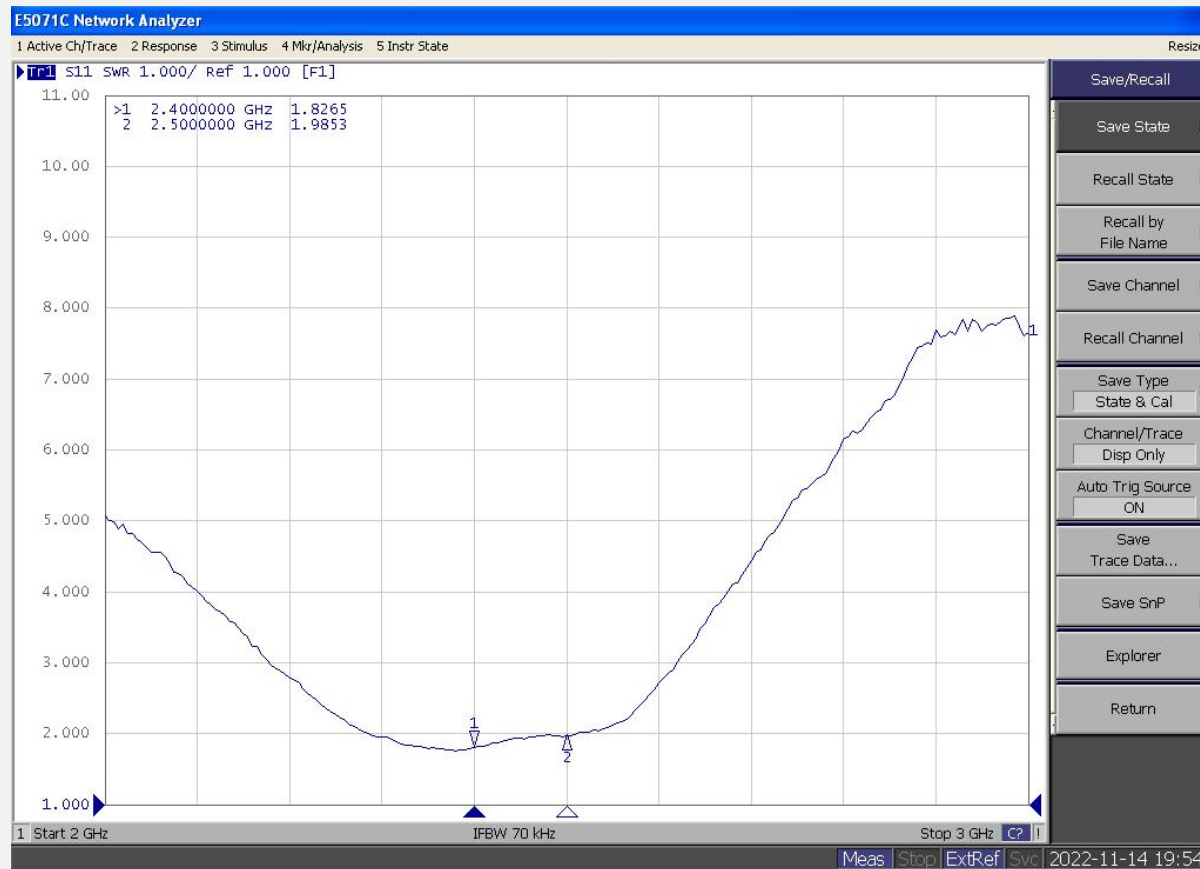


1.1.Antenna Matching Network

Element	Value
E1(0402)	0Ω
E2(0402)	NC
E3(0402)	NC
Whether to modify the match	NO



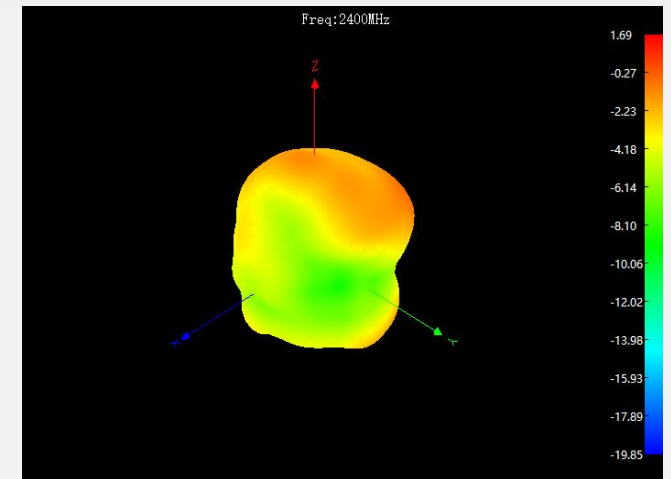
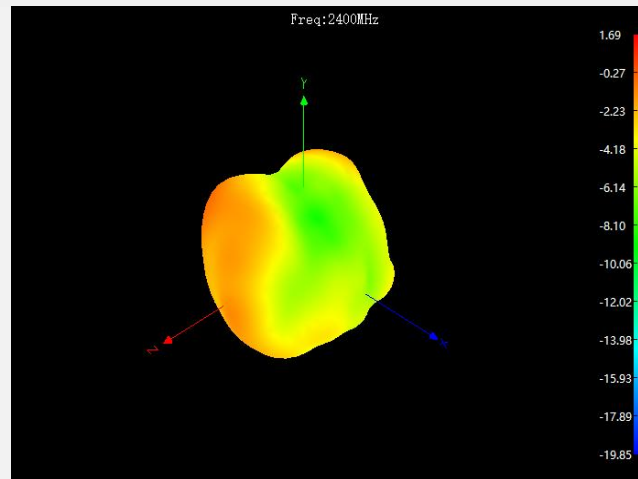
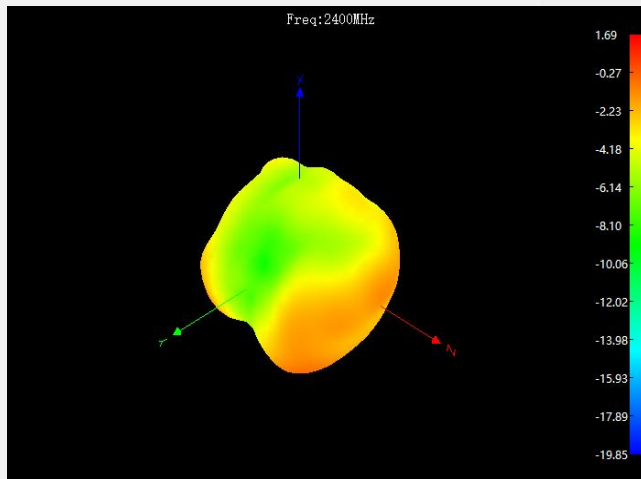
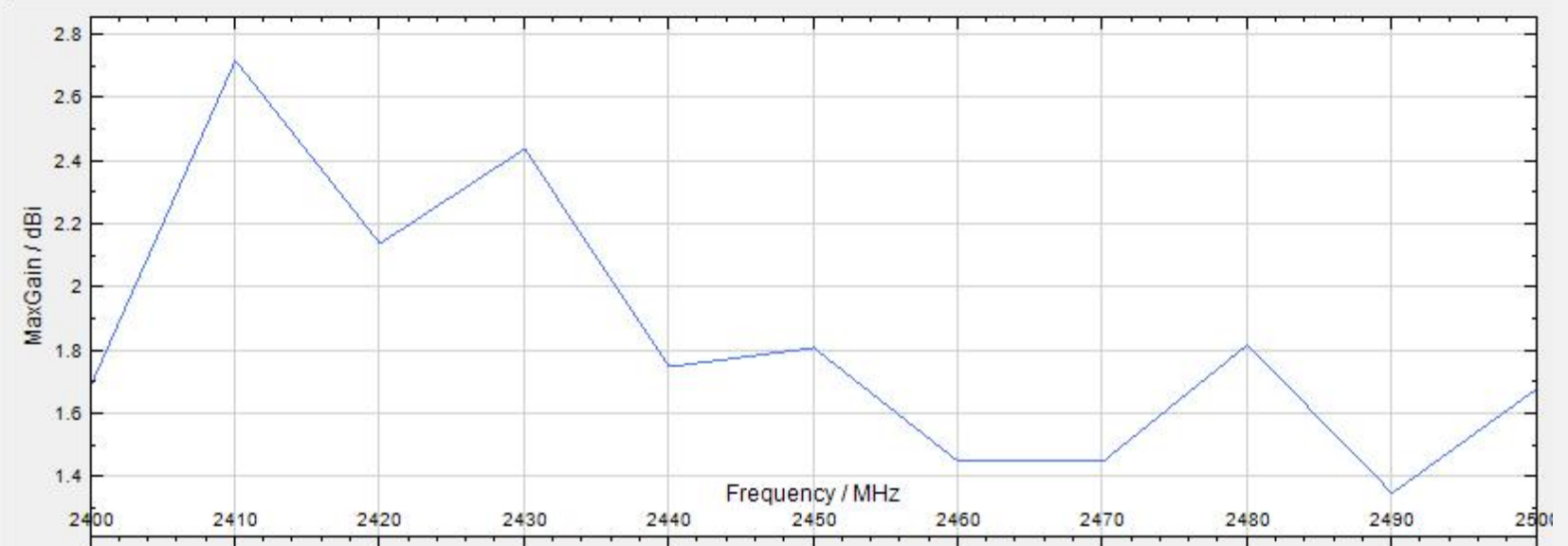
1.2.WIFI 2.4G VSWR



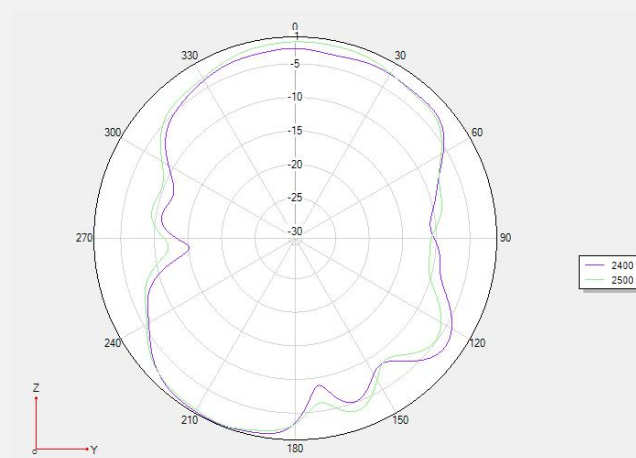
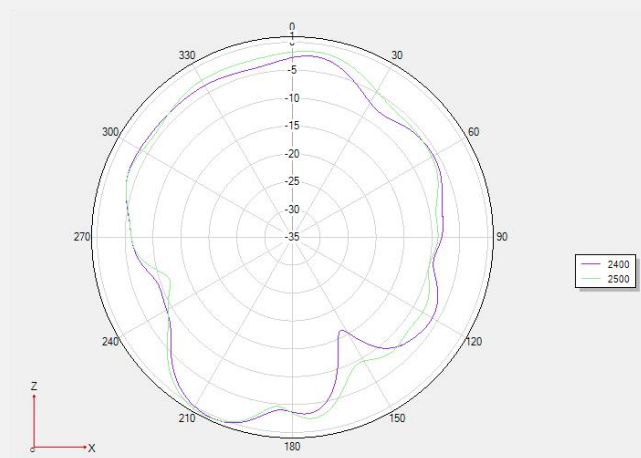
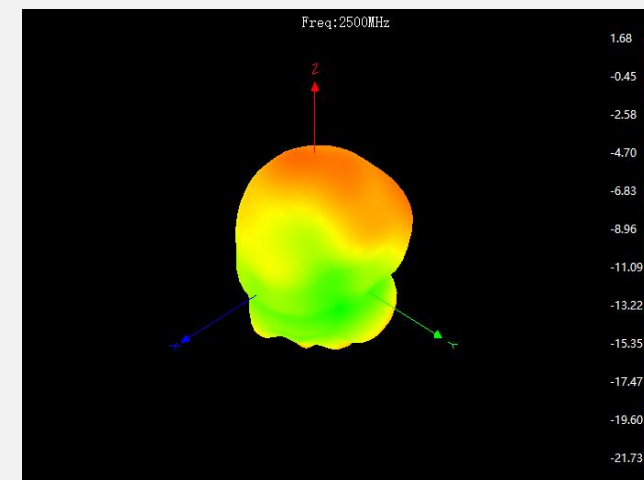
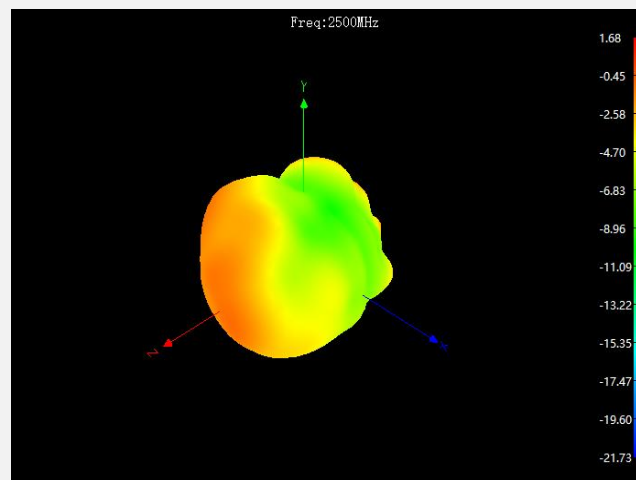
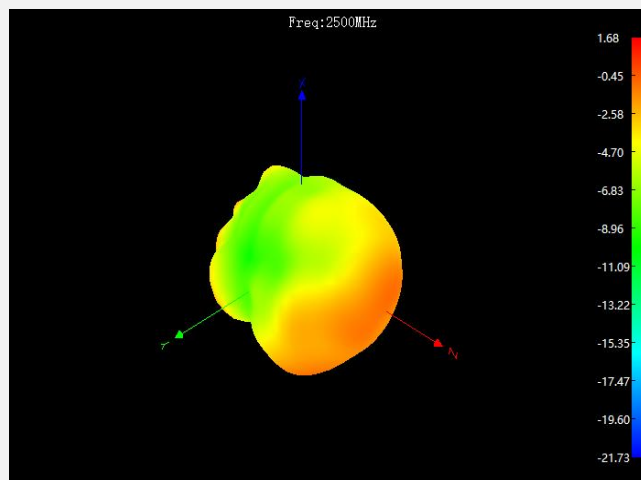
Frequency (MHz)	2400	2500
VSWR	1.8	1.9

1.3. GAIN & Efficiency

Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	1.69	40.62
2410	2.72	43.5
2420	2.14	43.42
2430	2.44	42.21
2440	1.75	40.76
2450	1.81	40.48
2460	1.45	39.04
2470	1.45	39.04
2480	1.82	40.55
2490	1.35	39.44
2500	1.68	41.12



1.4 3D Date



2. Conclusion

PCB motherboard end matching circuit is not changed, antenna passive standing wave debugging below 2.5, in microwave laboratory. When the efficiency gain is tested, both the test efficiency and the gain meet the application requirements. The installation should pay attention to the position of the antenna paste. Please contact me by phone if you have any other questions. Thank you.