



### Antenna Passive Test Report

Project Name	SP03	Engineer	lilei	Checker	
HW Version	DVT	Prototype(S/N)		Software Version	
Temperature/Humidity	25°C/50%	Test Equipment	OTA	Test Date	2025/3/10
<b>Conclusion:</b>		Remarks			
Standard	Fre(Mhz)	Effi(%) (Min~Max)	Probiem Description and Next Step Plan		
WiFi	L5	40.94			
	2.4G	38~44.35			
GPS	5G	41~46			

Fixture Picture

GPS+WIFI2.4G 5GWIFI

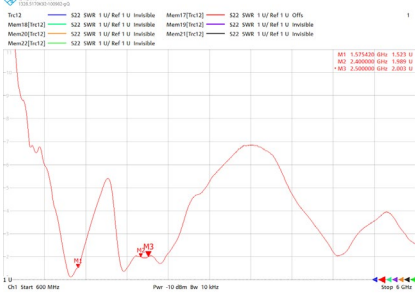
分集天线



主天线

Matching Circuit, Switch Logic Schematic(CAD and Tag Number Diagram)  
天线匹配未更改

\$ Parameter (Return Loss, Smith)

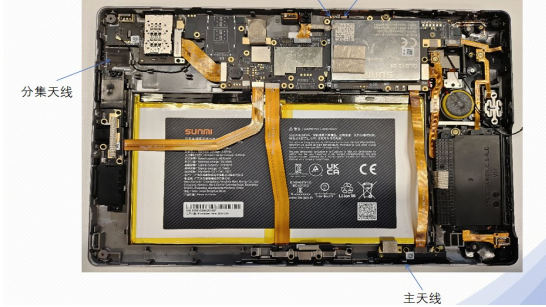


Passive Performance (Efficiency, Gain)

Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
1550	-4.16	38.41	-0.21
1555	-4.06	39.27	0.25
1560	-4.04	39.45	0.57
1565	-3.91	40.68	1.12
1570	-3.73	42.36	1.79
1575	-3.88	40.94	1.41
1580	-4.25	37.60	1.05
1585	-4.36	36.66	0.90
1590	-4.79	33.20	0.45
1595	-5.17	30.42	0.08
1600	-5.62	27.43	-0.42
2400	-3.66	43.05	1.83
2410	-4.2	38.02	1.42
2420	-3.85	41.21	1.89
2430	-4.07	39.17	1.74
2440	-3.53	44.36	1.81
2450	-3.67	42.95	1.65
2460	-3.51	44.57	1.92
2470	-3.48	44.87	1.52
2480	-3.27	47.10	1.93
2490	-3.66	43.05	1.63
2500	-3.51	44.57	1.94

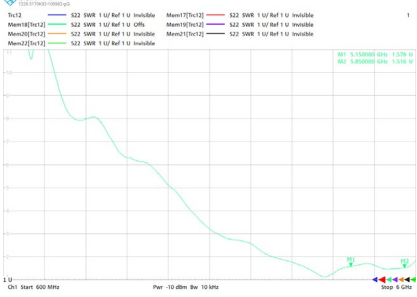
Fixture Picture

GPS+WIFI2.4G 5GWIFI



Matching Circuit, Switch Logic Schematic(CAD and Tag Number Diagram)  
 天线匹配未更改

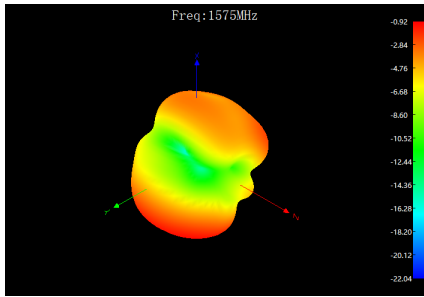
\$ Parameter (Return Loss, Smith)



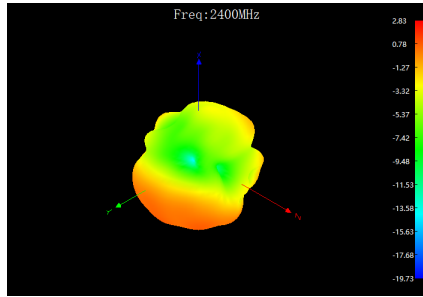
Passive Performance (Efficiency, Gain)

Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
5150	-3.74	42.27	1.52
5200	-3.66	43.04	1.18
5250	-3.71	42.56	1.16
5300	-3.54	44.24	1.25
5350	-3.79	41.76	1.23
5400	-3.61	43.53	1.22
5450	-3.45	45.16	1.59
5500	-3.87	41.00	1.27
5550	-3.39	45.80	1.10
5600	-3.59	43.74	1.18
5650	-3.52	44.47	1.16
5700	-3.6	43.67	1.76
5750	-3.5	44.69	1.75
5800	-3.37	46.06	1.80
5850	-3.38	45.96	1.32

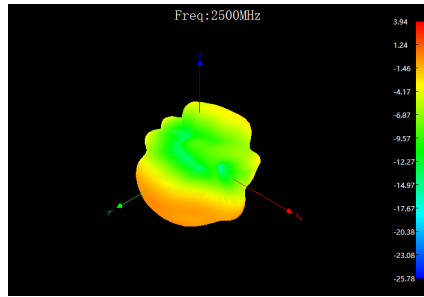
# WIFI GPS ANT 3D Pattern



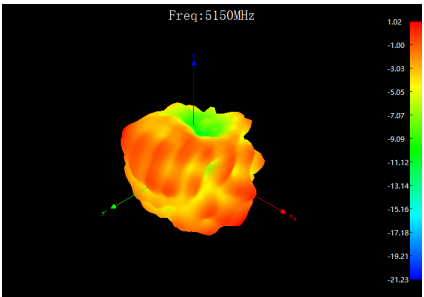
1575MHz



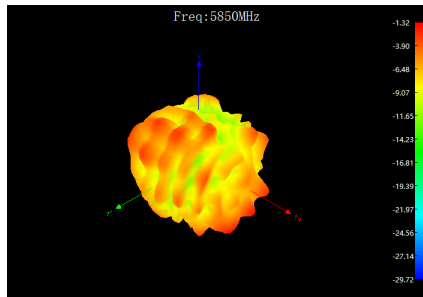
2400MHz



2500MHz



5150MHz



5850MHz