

深圳市千目通讯科技有限公司

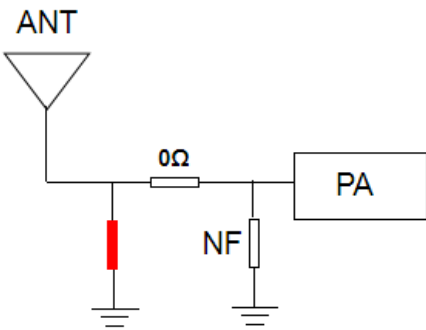
Shenzhen Qianmu Communication Technology Co.,Ltd.

Antenna sample acceptance letter

Applicable model	YQ10S GOLD		
client	Shenzhen peicheng technology co., ltd		
Specification description			
	Product content	specifications	Customer material code
Specification description	WIFI antenna	FPC/ Black/Character QM-YQ10S-GOLD-V1.0+ Third Generation Terminal 0.81*180mm+ Conductive Cloth	YQ10SG001
Change resume			
serial number	date	version	Brief description of changes
one	2023-04-26	V1.0	New project
2			
three			

Supplier sample confirmation					
research and development	structure	check	decide		
			PASS FAIL		
Customer sample confirmation					
electron	structure	project	purchase	quality	check
Reasons for rejection or other precautions:					

1、 Matching circuit -WIFI antenna



The original matching circuit is unchanged.

2. Active test data

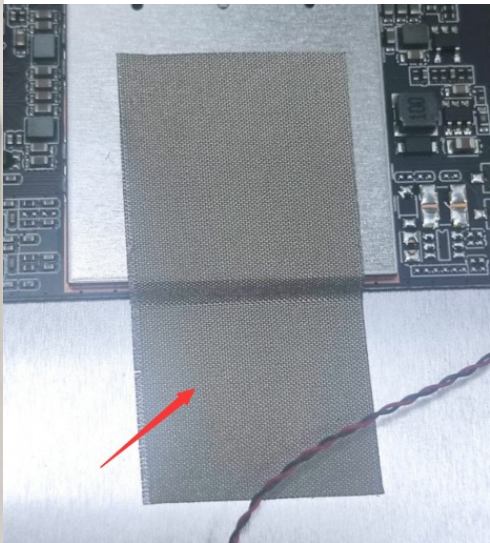
	WIFI2400~2500Mz 802.11b 11Mbps		
Channel	one	six	11
TRP	14.51	14.63	14.71
TIS	-82.64	-82.68	-82.96

	WIFI5000~5800Mz 802.11a 54Mbps		
Channel	36	161	165
TRP	10.34	10.55	10.83
TIS	-66.25	-66.39	-66.46

3. Environmental treatment



Stick conductive cloth on the copper leakage area of the antenna and ground the screen.

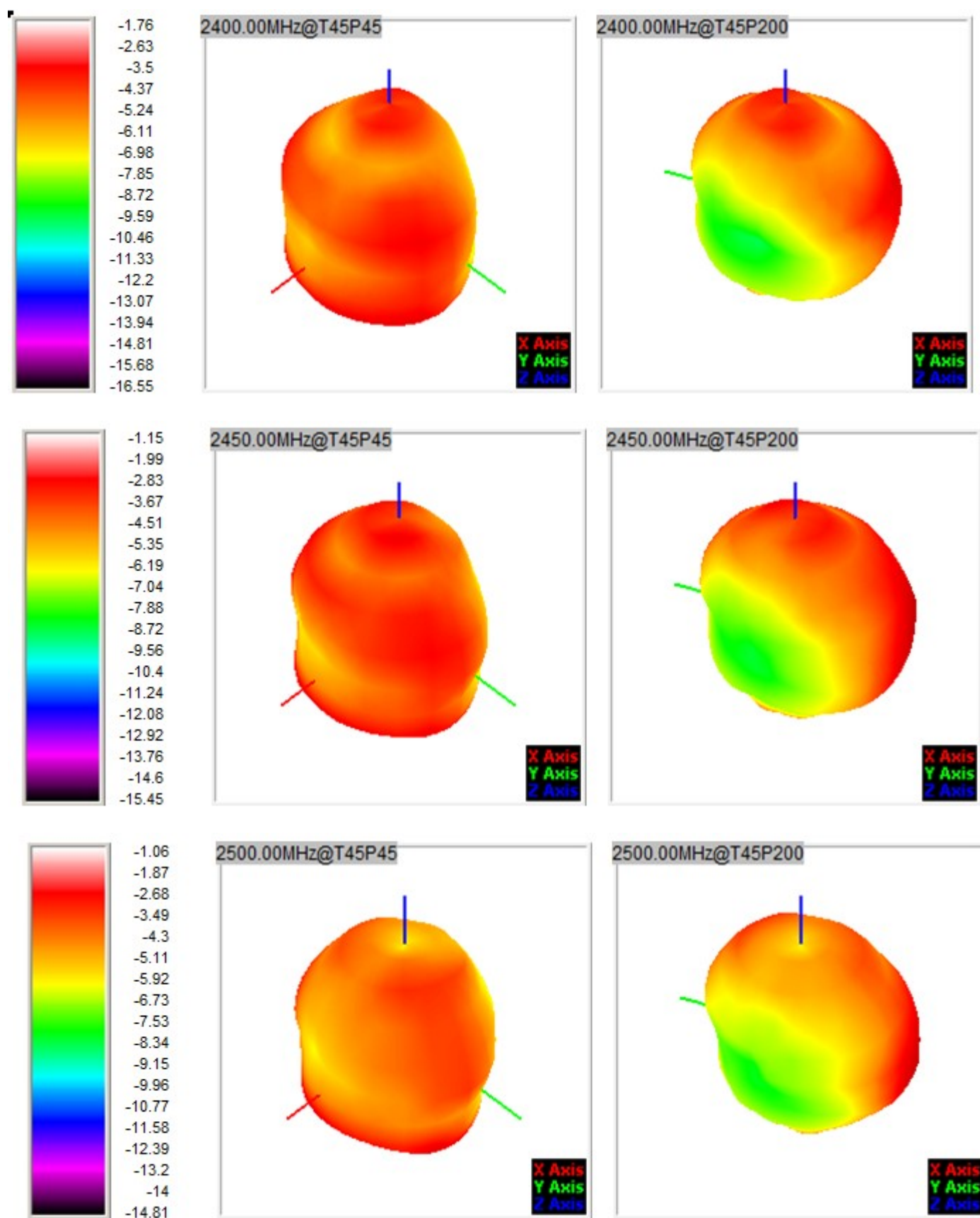


Here, the main board and screen of conductive cloth are grounded.

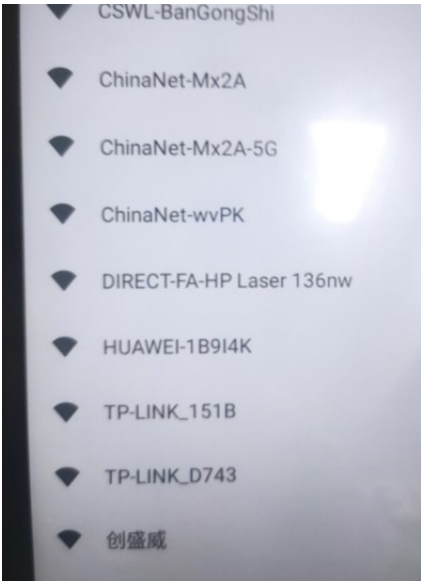
4、Passive efficiency and gain of WiFi

FEITUKEJI											
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-5.17	-5.23	-5.25	-5.03	-5.03	-4.77	-4.95	-5.25	-5.27	-5.15	-5.11
Peak EIRP (dBm)	-1.76	-1.80	-1.72	-1.42	-1.38	-1.15	-1.33	-1.37	-1.20	-1.04	-1.06
Directivity (dBi)	3.41	3.44	3.53	3.62	3.65	3.62	3.62	3.89	4.07	4.11	4.05
Efficiency (dB)	-5.17	-5.23	-5.25	-5.03	-5.03	-4.77	-4.95	-5.25	-5.27	-5.15	-5.11
Efficiency (%)	30.40	30.00	29.90	31.40	31.40	33.40	32.00	29.80	29.70	30.60	30.80
Gain (dBi)	-1.76	-1.80	2.00	-1.42	-1.38	-1.15	-1.33	-1.37	-1.20	-1.04	-1.06
NHPRP $\pm\pi/4$ (dBm)	-6.84	-6.96	-7.02	-6.84	-6.86	-6.58	-6.74	-7.03	-7.05	-6.92	-6.87
NHPRP $\pm\pi/6$ (dBm)	-8.50	-8.66	-8.75	-8.56	-8.54	-8.21	-8.32	-8.59	-8.60	-8.47	-8.43
NHPRP $\pm\pi/8$ (dBm)	-9.84	-10.02	-10.12	-9.91	-9.83	-9.44	-9.51	-9.74	-9.76	-9.65	-9.63
Upper Hem. PRP (dBm)	-8.33	-8.36	-8.39	-8.24	-8.30	-8.07	-8.33	-8.72	-8.81	-8.70	-8.60
Lower Hem. PRP (dBm)	-8.04	-8.13	-8.13	-7.86	-7.80	-7.50	-7.62	-7.85	-7.81	-7.67	-7.69
Upper Hem. PRP (%)	14.69	14.58	14.49	15.01	14.78	15.58	14.71	13.43	13.14	13.48	13.81
Lower Hem. PRP (%)	15.71	15.39	15.39	16.36	16.59	17.77	17.30	16.40	16.55	17.10	17.01

5、directional diagram



6. Measured map of antenna



7, structural drawings

