

深圳市千目通讯科技有限公司

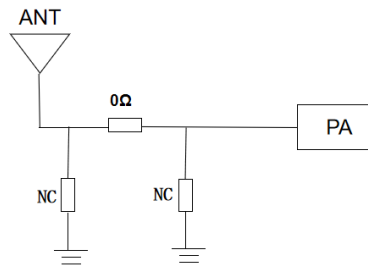
Shenzhen Qianmu Communication Technology Co.,Ltd.

Antenna Acknowledgement

Applicable model	Fourth generation alarm		
Customer	Ningbo Pelican Intelligent Fishing Gear Co., Ltd.		
Specification description			
	Product content	Specification	Customer material code
Specification description	Receiving antenna	FPC/exposed copper on both sides	A40010
	Transmitting antenna	Double-ended stripping and tinning	M30022
Change of resume			
Serial number	Date	Version	Brief description of the changes
1	2023-04-28	V1.0	New project
2			
3			

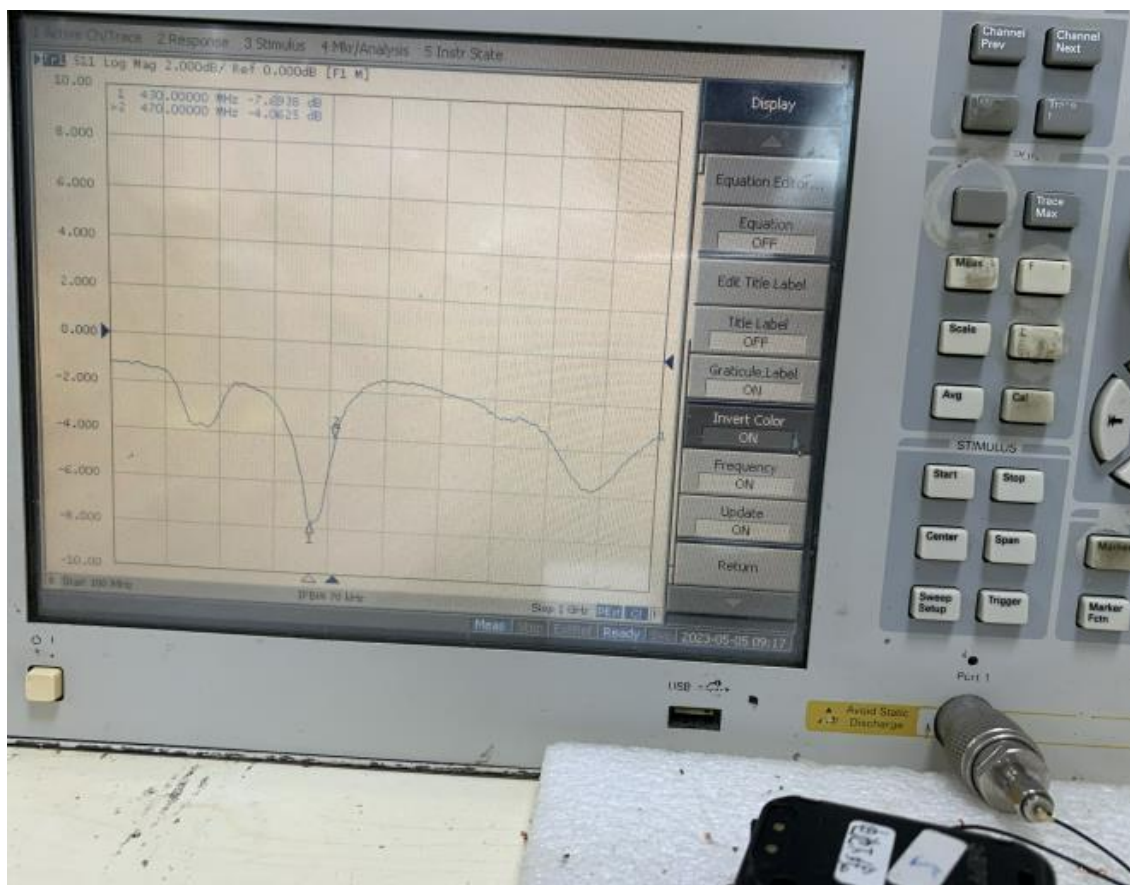
Supplier sample confirmation					
Research and development	Structure		Audit	Judgement	
				PASS FAIL	
Customer sample confirmation					
Electron	Structure	Project	Procurement	Quality	Audit
Reasons for rejection or other precautions:					

1、 Matching Circuit



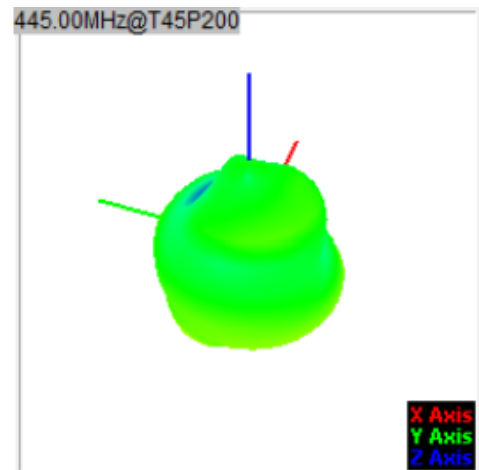
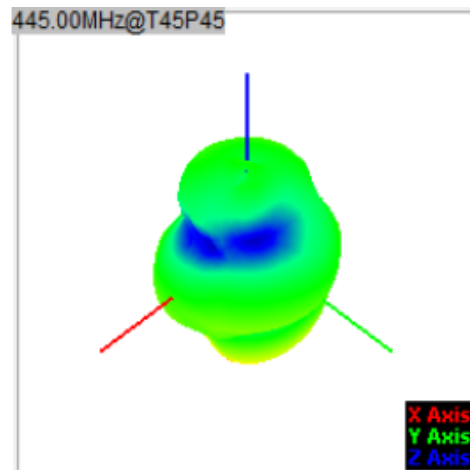
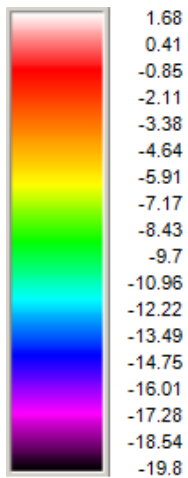
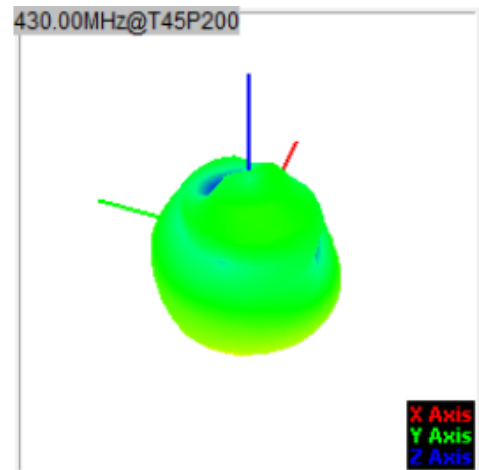
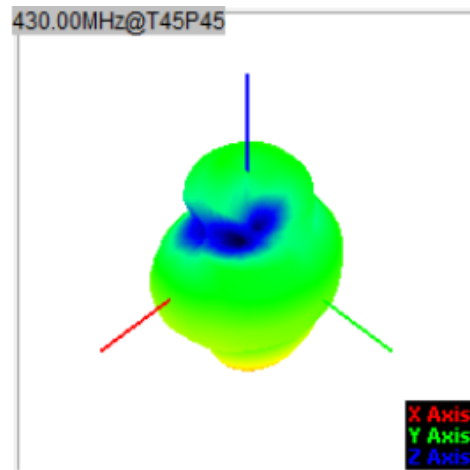
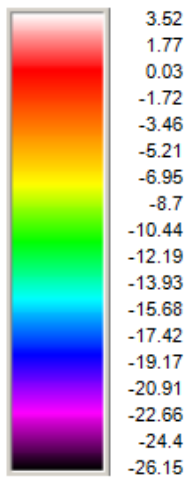
No changes have been made to your original matching circuit

2、 Antenna S11 passive parameter

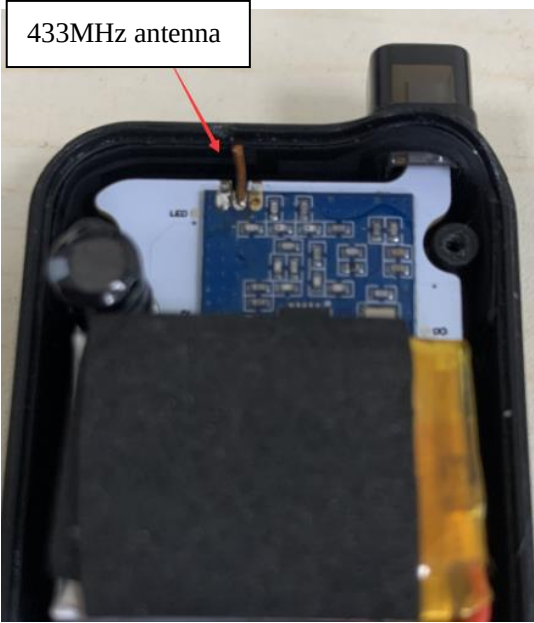


3、 Antenna efficiency and gain

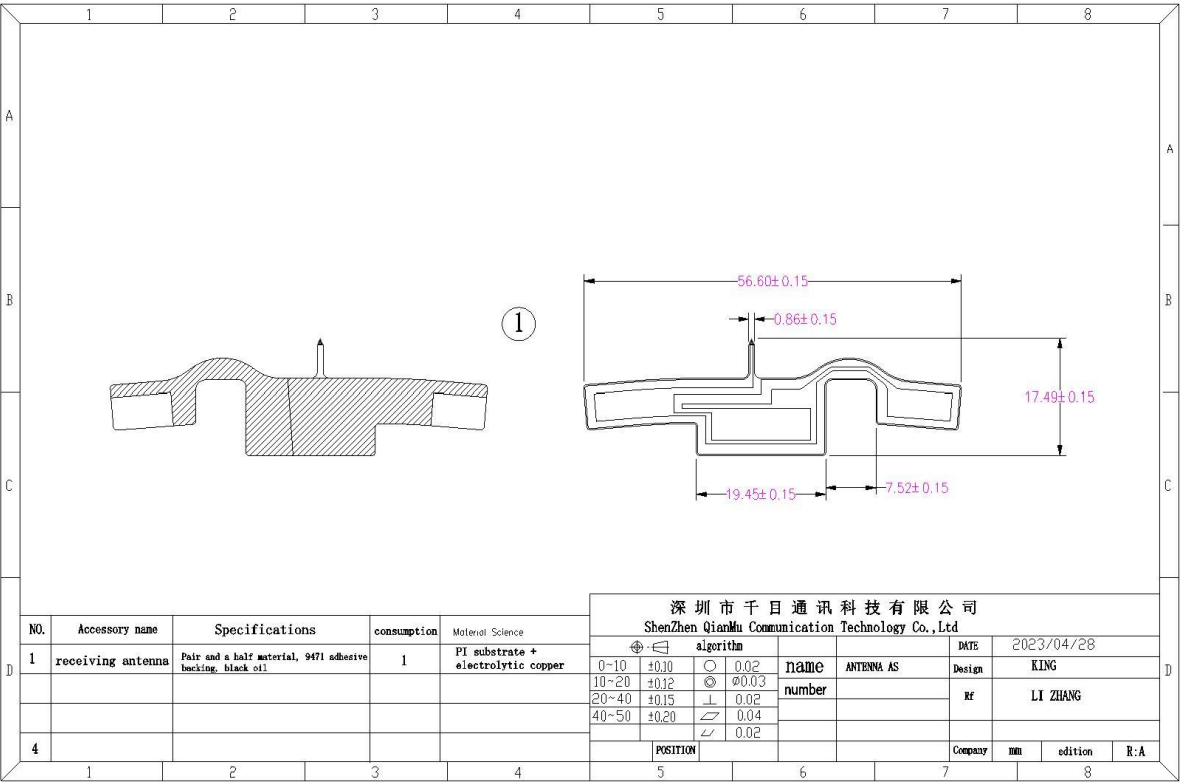
Frequency ID	1	2	3	4
Frequency (MHz)	430	435	440	445
Ant. Port Input Pwr. (dBm)	0	0	0	0
Tot. Rad. Pwr. (dBm)	-6.79	-6.92	-7.1	-7.63
Peak EIRP (dBm)	3.52	3.19	2.7	1.68
Directivity (dBi)	10.3	10.11	9.8	9.3
Efficiency (dB)	-6.79	-6.92	-7.1	-7.63
Efficiency (%)	21	20.3	19.5	17.3
Gain (dBi)	3.52	3.19	2.7	1.68
NHPRP $\pm\pi/4$ (dBm)	-9.93	-9.99	-10.06	-10.43
NHPRP $\pm\pi/6$ (dBm)	-11.31	-11.43	-11.54	-11.9
NHPRP $\pm\pi/8$ (dBm)	-12.05	-12.25	-12.4	-12.75
Upper Hem. PRP (dBm)	-13.7	-13.56	-13.37	-13.55
Lower Hem. PRP (dBm)	-7.77	-7.99	-8.27	-8.91
Upper Hem. PRP (%)	4.26	4.4	4.6	4.42
Lower Hem. PRP (%)	16.7	15.9	14.88	12.86



4. Antenna placement



5. Structural drawings



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