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Ecological Park, Tiegang Community, Xixiang Street, Bao'an District, Shenzhen



Antenna Test Report

Directory

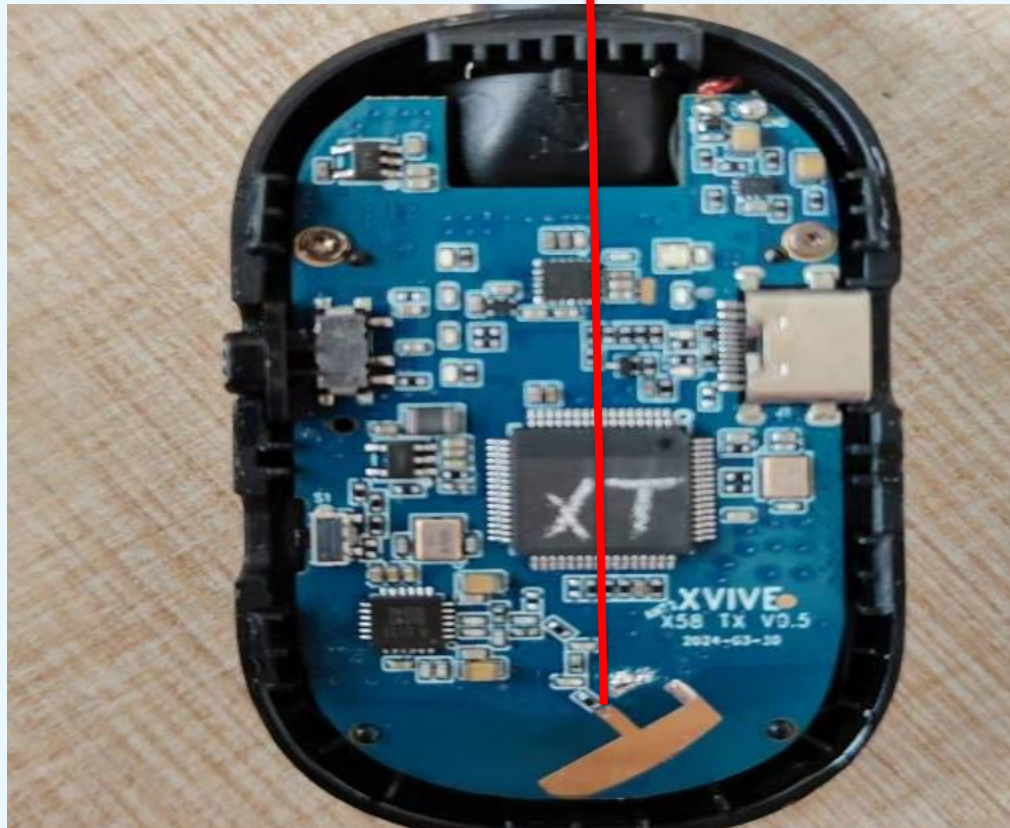
- 1. Project Introduction and Antenna Debugging
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1. Project Introduction and Antenna Debugging Frequency Band

Customer Name	FZONE	Project Name	A58	Versio n	0.5
Antenna frequency band	5720-5850MHz				
Antenna type	PCB				

2. Antenna diagram

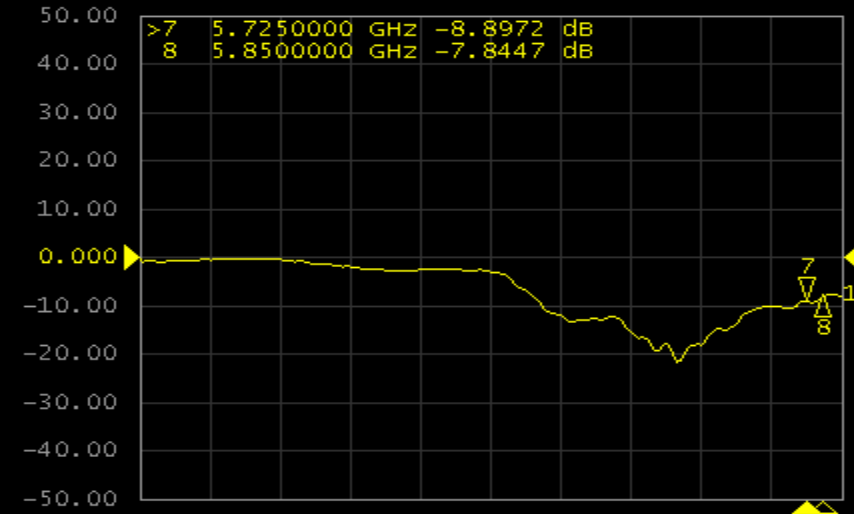
Antenna combination diagram



3. Passive S11/Smith 1 antenna return loss

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

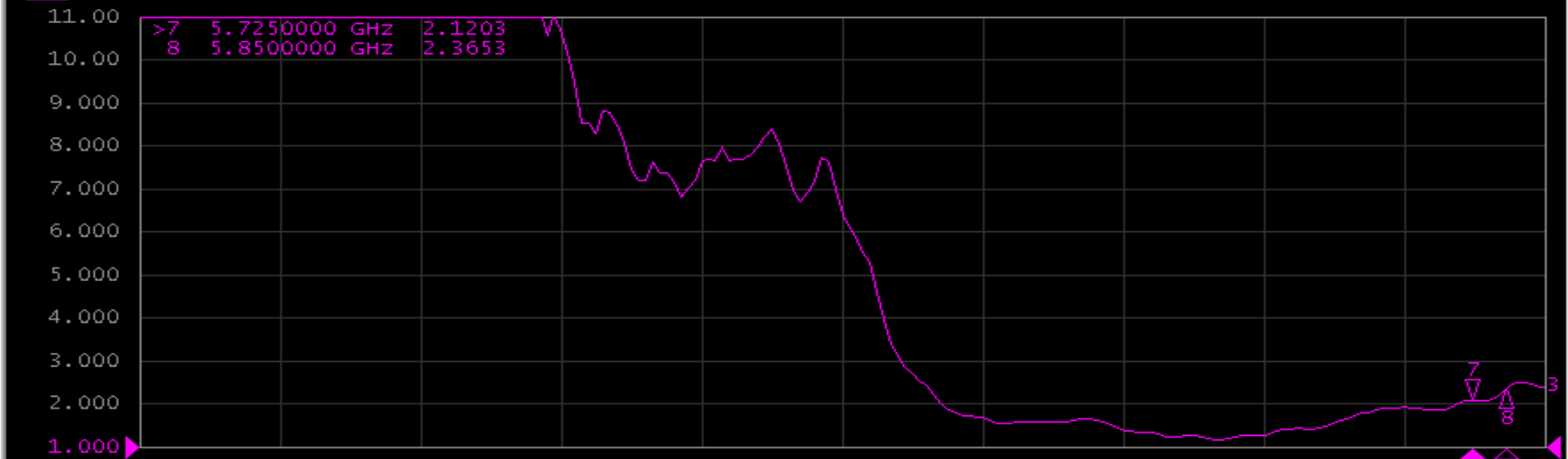
Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]



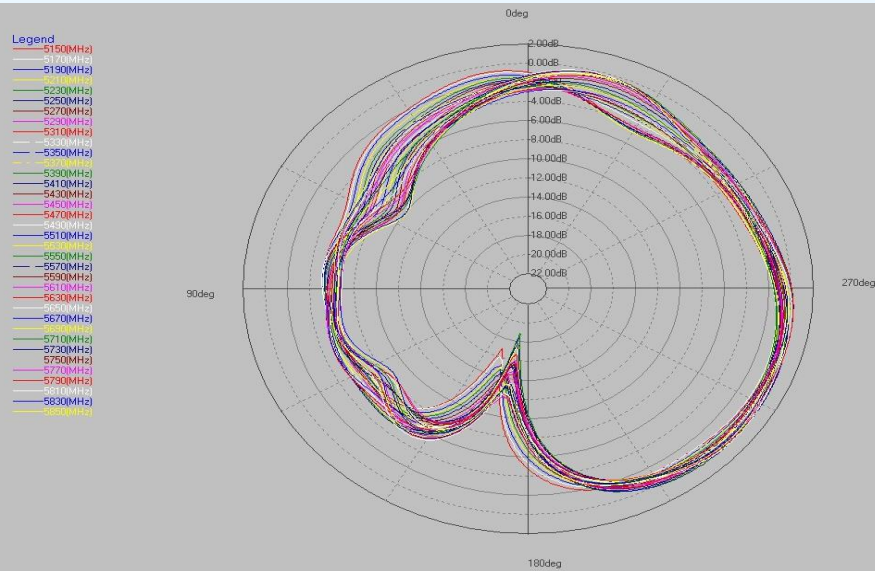
Tr2 S11 Smith (R+jX) Scale 1.000u [F1]

Freq (GHz)	R (Ω)	X (Ω)	C (pF)
5.7250000	25.600	-12.741	2.1820
5.8500000	21.834	-8.0484	3.3803

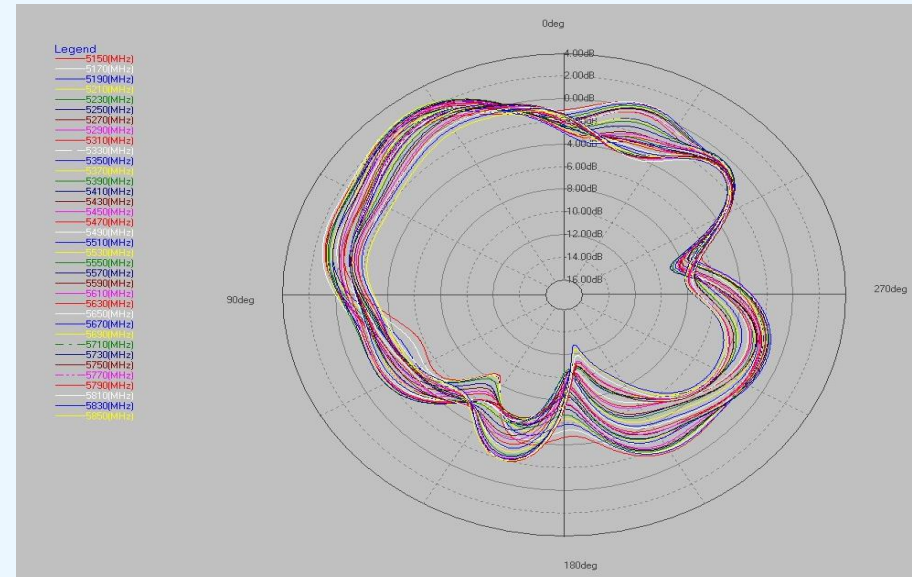
Tr3 S11 SWR 1.000/ Ref 1.000 [F1]



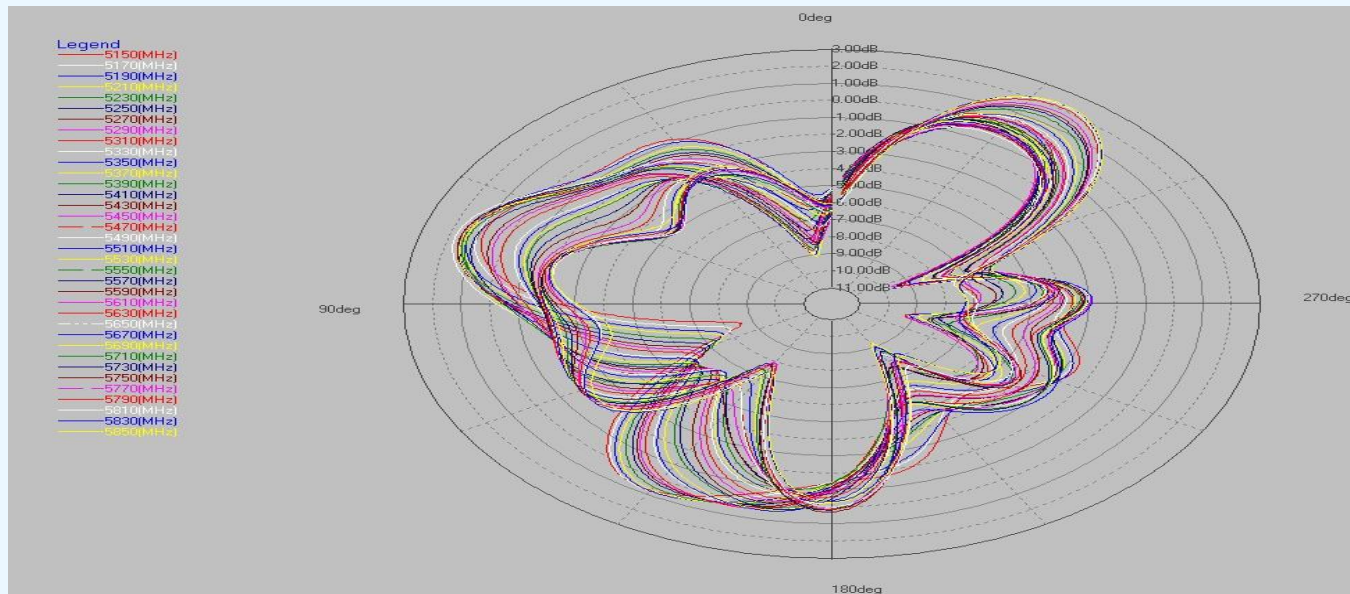
4. Antenna 2D diagram



$\Phi=0$



$\Phi=90$



$\Theta=90$

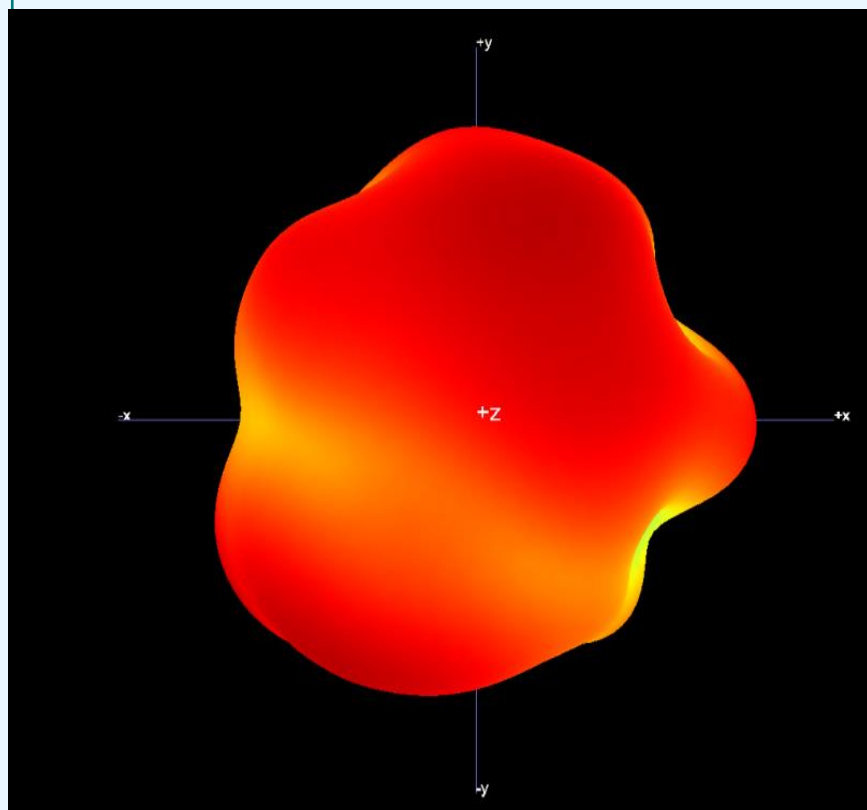
5. Antenna efficiency

Frequency (MHZ)	Efficiency (%)	Efficiency . dB	Peak_Gain . dBi
5720	54%	-2.67	2.17
5730	54%	-2.67	2.33
5740	54%	-2.67	2.33
5750	55%	-2.59	2.47
5760	55%	-2.59	2.47
5770	53%	-2.73	2.56
5780	53%	-2.73	2.56
5790	54%	-2.62	2.75
5800	54%	-2.62	2.75
5810	54%	-2.62	2.75
5820	54%	-2.62	2.75
5830	53%	-2.73	2.99
5840	53%	-2.73	2.99
5850	53%	-2.72	3.09

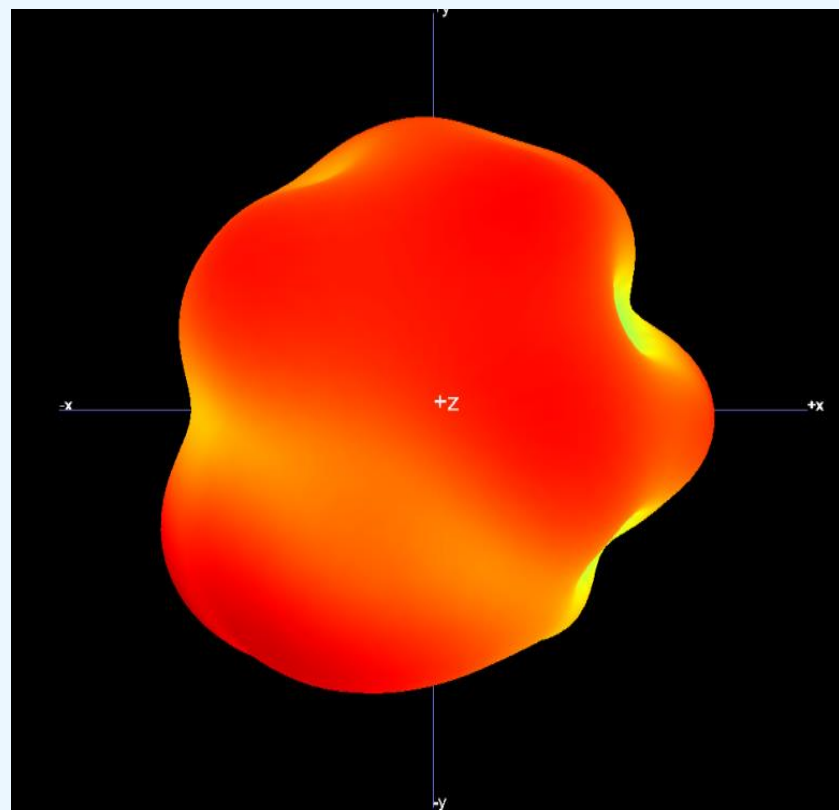
5. Antenna efficiency

参考
频点

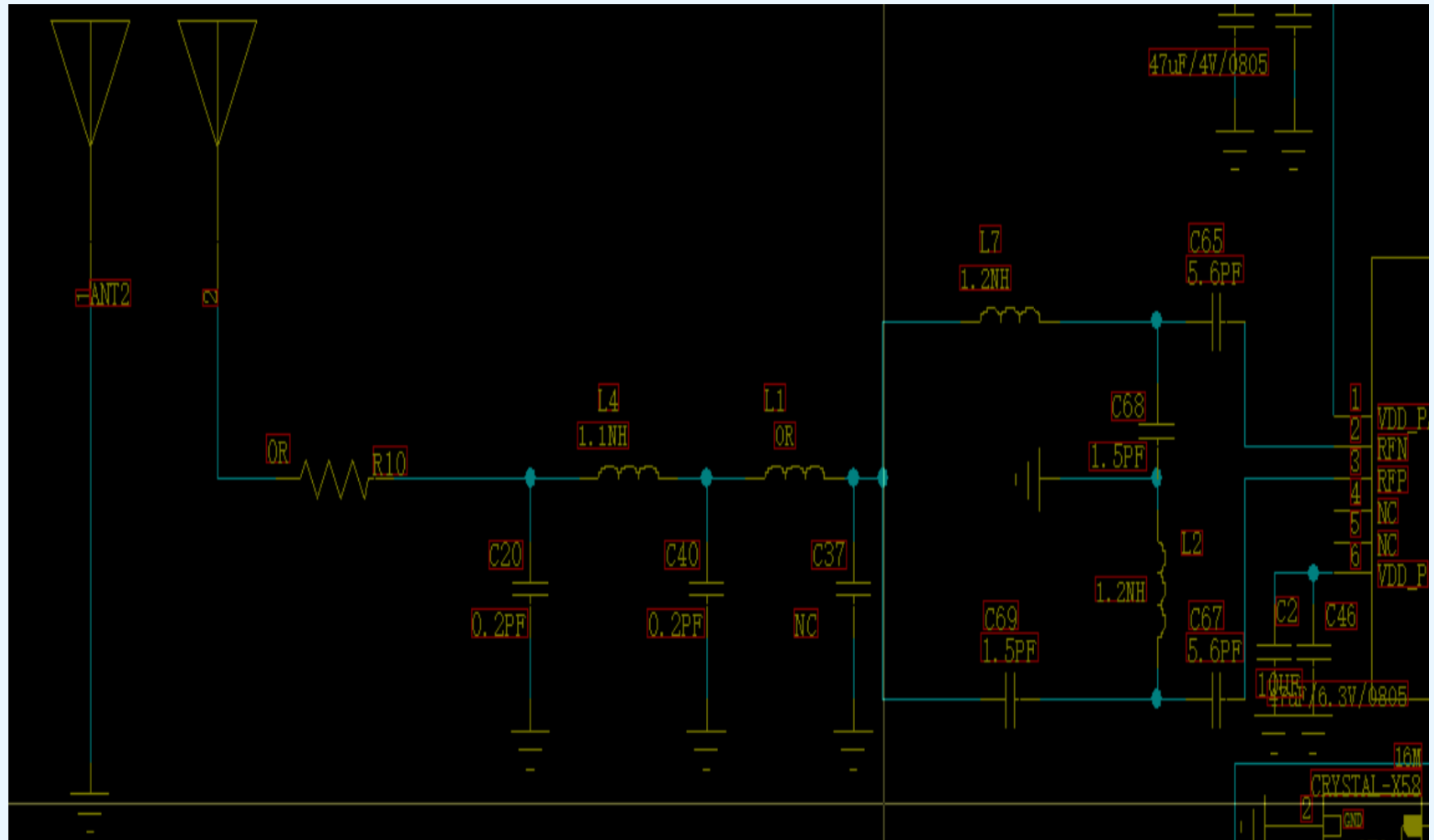
5725



5845



6. Matching circuit diagram



Thanks for your valuable comment!