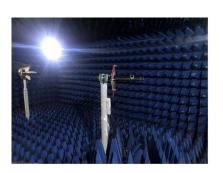
HS08 Antenna Report

RF Engineer: Chen Kehong Date: September 9, 2024 Contact: +86 19925137130



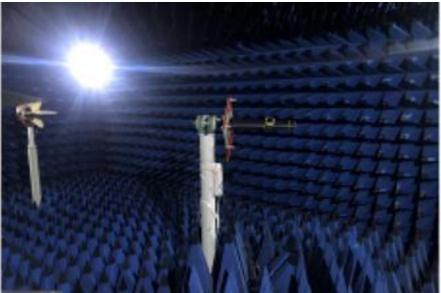




Project Introduction

We are transitioning from the internet era to the intelligent era, with nations building digital societies and smart cities. Over the next 5-10 vears, both consumer electronics and IoT markets will offer immense growth potential. The wireless communication field is highly diversified. Leveraging our expertise in antennas and integrated capabilities, Yusheng aims to provide competitive professional-grade product solutions





Yusheng's antennas cover nearly all wireless terminal applications, including:

Automotive antennas

High-precision measurement/mapping antennas Drone ground/satellite navigation & positioning antennas Medical device wireless transmission Consumer antennas (smartphones, tablets, laptops) Base station/indoor distribution antennas Wearable antennas (smartwatches, TWS earphones) Smart home/security antennas IoT wireless data transmission/control antennas

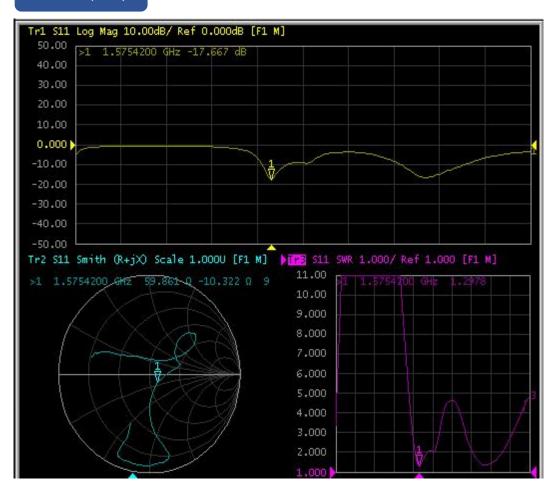
Debugging Overview

Parameter					
	ANT		Material		
Frequency & Material		L1	1575. 42Mhz		
		ВТ	2. 4G-2. 5G	- metal frame	
Performance	Compliant with client specifications				

深圳市昱晟通讯设备有限公司

Yusheng Communications-equipment Co.,LTD

VSWR (L1)





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Antenna efficiency and gain

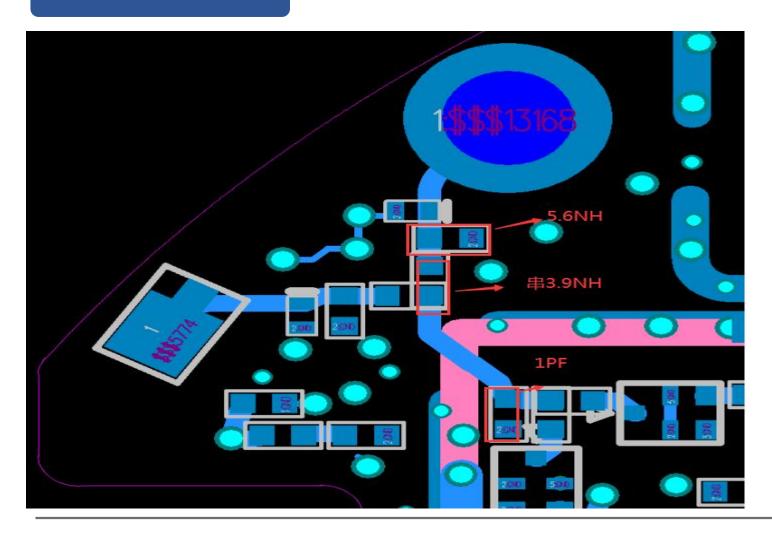
Arm	. Passive	Tes	st For	1575	MHz	
Freq	Effi		Gai	n		
(MHz)	(%)		(dBi)			
1550	3.5%		-5.4			
1555	4.6%		-5.	3		
1560	4.9%		-5. 1			
1565	5.8%		-4.9			
1570	6.5%		-4.	8		
1575	6.3%		-4.	9		
1580	5.8%		-5.0			
1585	5. 2%		-5.2			
1590	4. 1%		-5.	1		

Arm、Passive Test For 2400MHz~2500MHz						
Freq	Effi	Gain				
(MHz)	(%)	(dBi)				
2400	2.3%	-6.2				
2410	2.9%	-5.6				
2420	3.0%	-5.5				
2430	4.1%	-4.8				
2440	4.8%	-4.9				
2450	5.4%	-5. 1				
2460	5.9%	-5.3				
2470	5. 2%	-5.4				
2480	4. 5%	-5.9				
2490	3.6%	-5.5				
2500	3.5%	-5.8				

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L1 Matching - Main Road



Bluetooth Matching

