

## Antenna Passive Test Report

Product Name	A27 V1.0
product stage	Prototype
Product Photo	



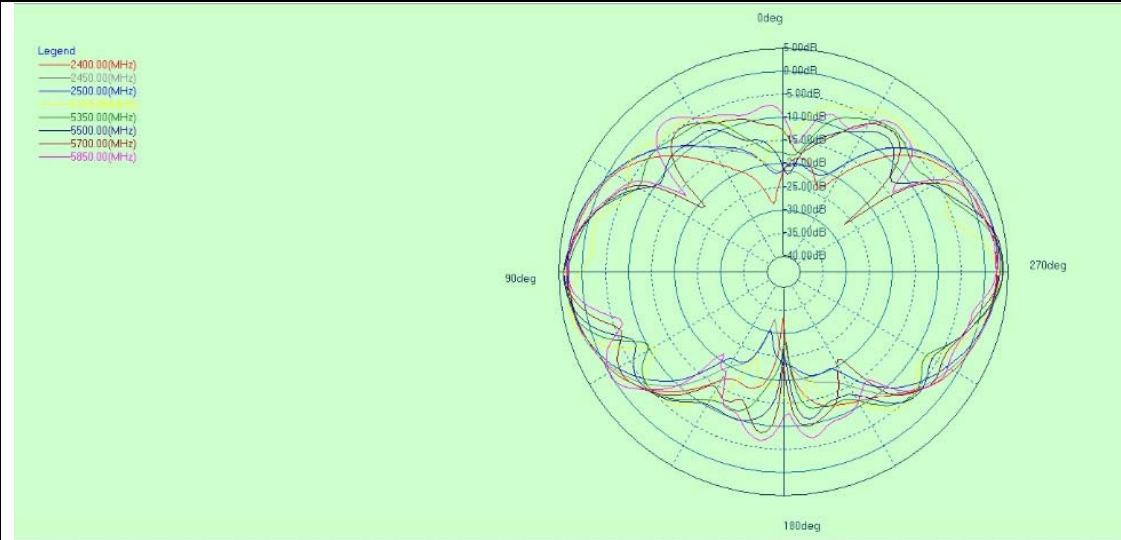
## Test information

product	A27V1.0		product No.	
test category	Antenna passive test	test the venue	S Parameters (laboratory) radiation parameters	
test date	2021.6.21	Testers	Xiao Pengcheng	
environment	temperature: 24°C-28°C	Relative humidity: 56%-58%	Atmospheric pressure: 100kPa-101kPa	
test project	Room temperature electrical properties: ✓ Return loss ✓ Gain ✓ pattern ✓ port isolation			
Test foundation	Test report, see test attached			
test in conclusion	The antenna radiation parameters and S-parameters meet the requirements, and antennas are well matched			

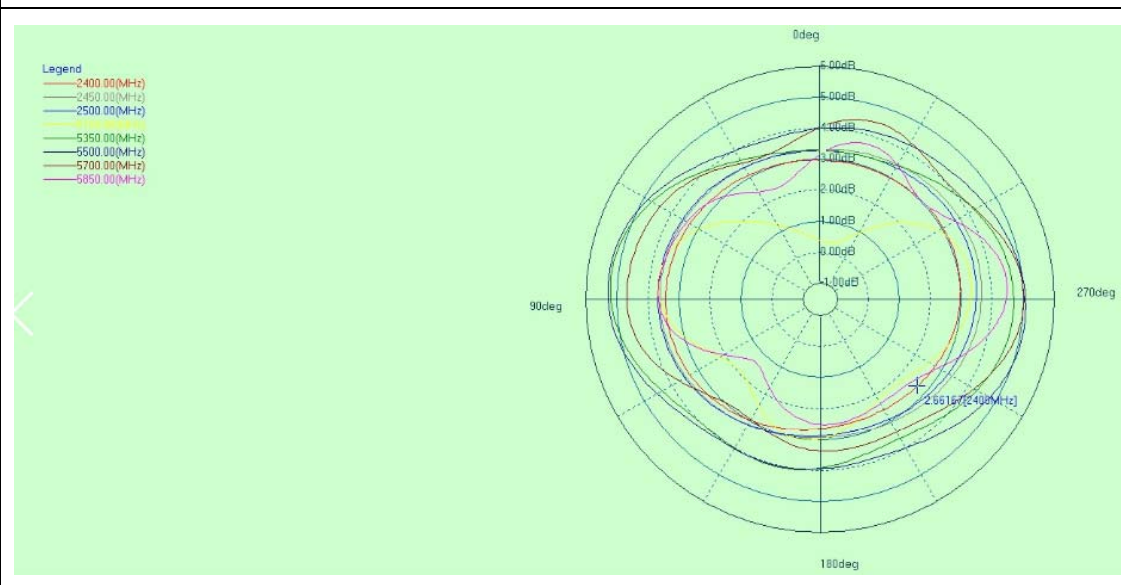
### Room temperature electrical performance test results

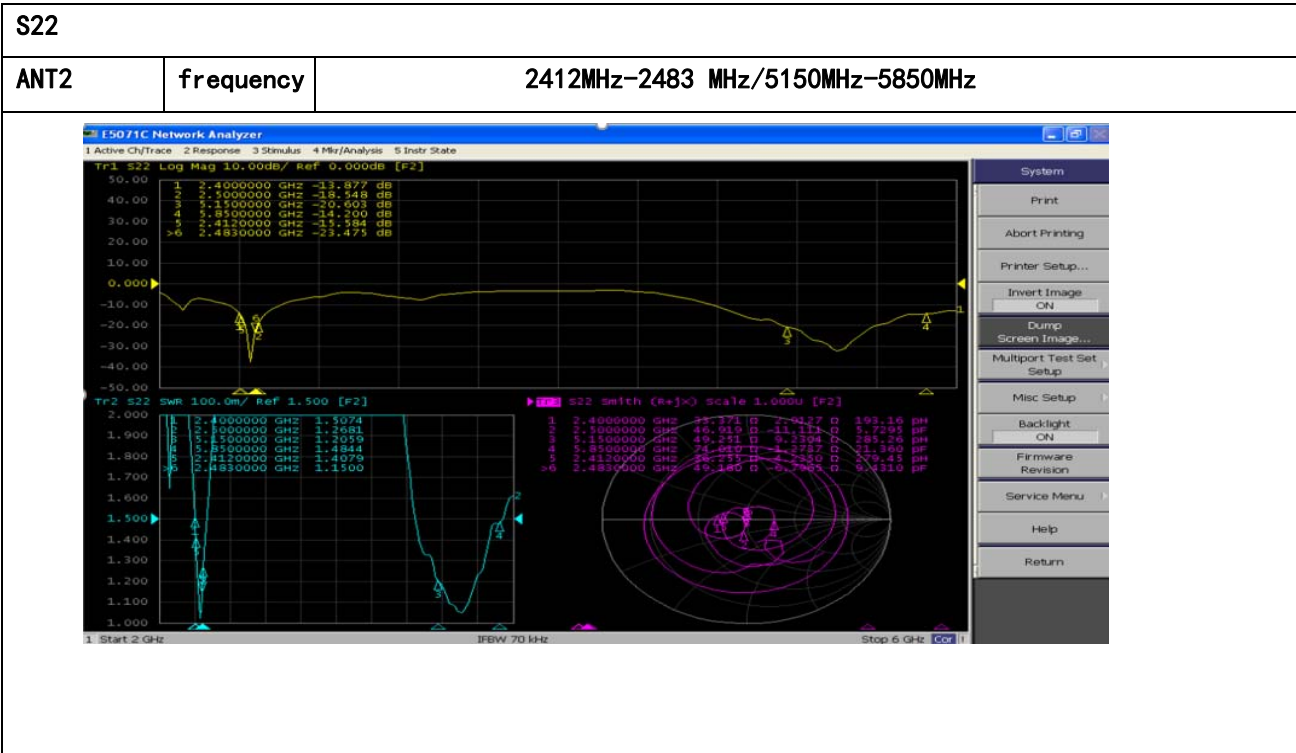
No.	Test items	unit	performance requirements	test result		Judgment
				Sample serial number:		
1	Frequency Range	MHz	2400-2483/5150-5850	2400-2483/5150-5850		OK
2	Gain	dBi	4/5	2410	3.5	OK
				2450	4.2	OK
				2483	4.1	OK
				5150	4.0	OK
				5500	5.0	OK
				5850	4.8	OK
3	isolation	dB	$\leq -15$	2410	-24	OK
				2450	-21	OK
				2483	-21	OK
				5150	-20	OK
				5500	-25	OK
				5850	-23	OK
4	return loss	dB	$\leq -10$	2410	-14	OK
				2450	-14	OK
				2483	-17	OK
				5150	-25	OK
				5500	-17	OK
				5850	-15	OK
5	Antenna efficiency	/	$\geq 60\%$	2410	86%	OK
				2450	92%	OK
				2483	95%	OK
				5150	71%	OK
				5500	81%	OK
				5850	79%	OK

### vertical radiation pattern



### Horizontal plane radiation pattern





S21 (isolation)

ANT1/2

frequency

2412MHz-2483 MHz/5150MHz-5850MHz

