

Antenna Passive Test Report

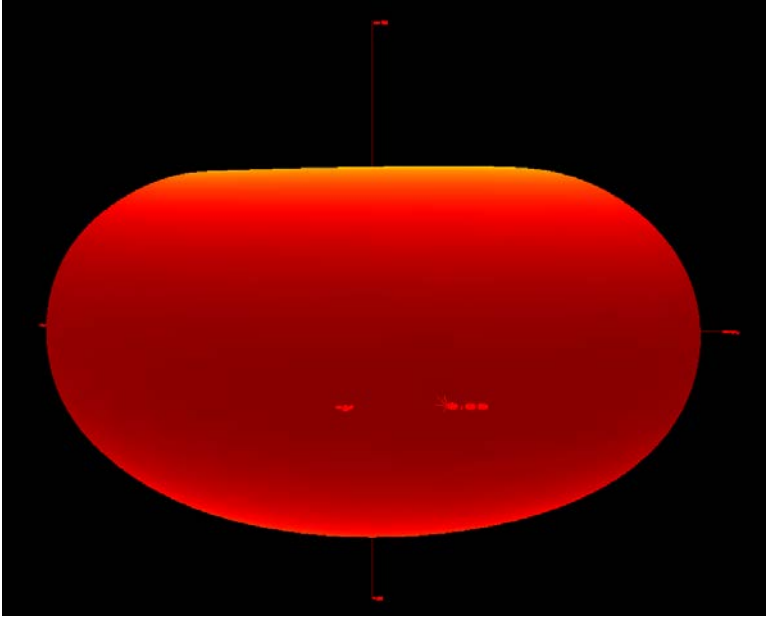
Product Name	A23 V1.0
Product stage	prototype
Product image	
	

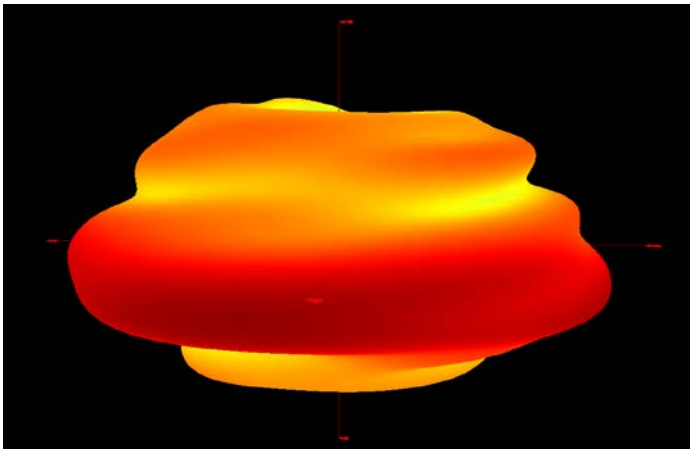
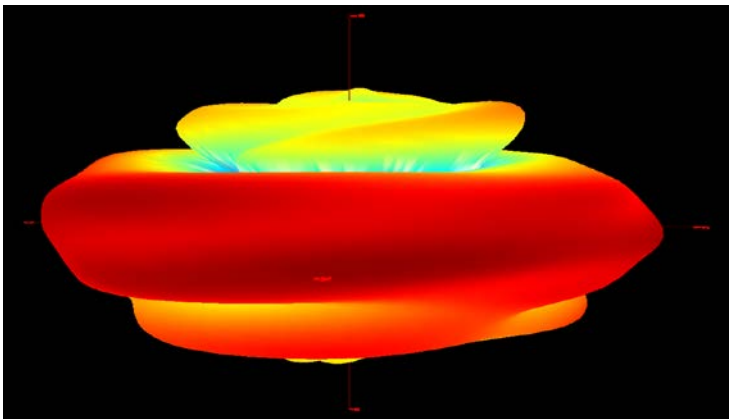
Test Information

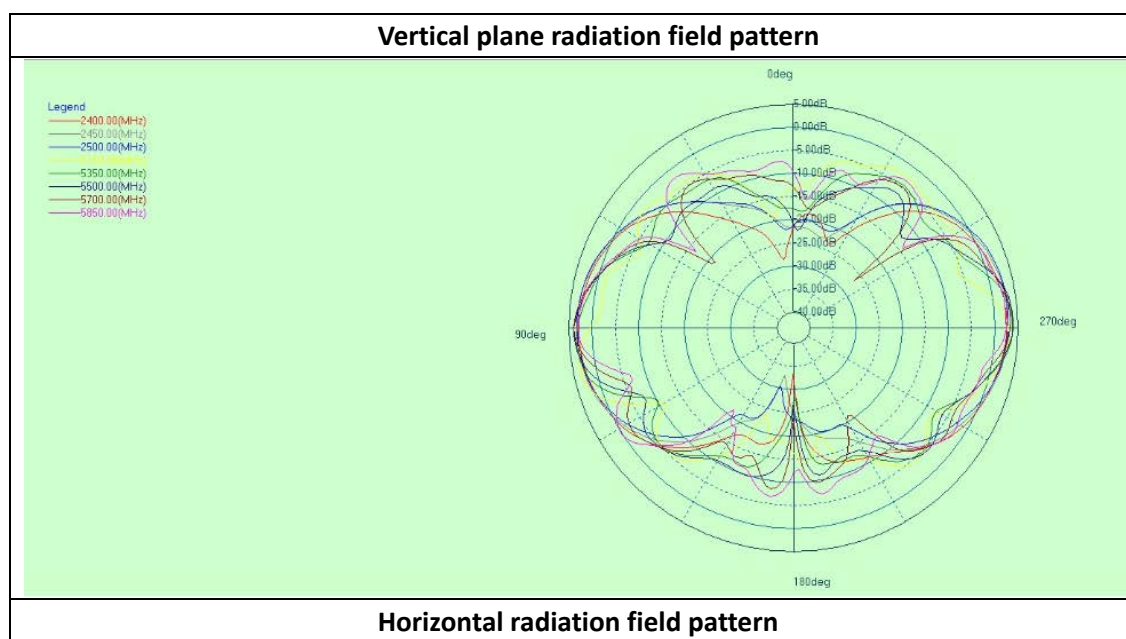
Product Name	A23V1.0		Antenna encoded	
Test Category	Antenna passive test	Test location	S parameter (laboratory) Radiation parameter (Barron test)	
Test date	2021-06-22	Tester	Xiao Pengcheng	
Test environment	temperature : 24℃-28℃	relative humidity : 56%-58%		atmospheric pressure : 100kPa-101kPa
Test items	Normal temperature electrical performance : ☒ Return loss ☒ gain ☒ directional diagram ☒ Port isolation ☒ productiveness			
Test basis	Test report, see attached test drawings			
Test Conclusion	The antenna radiation parameters and S parameters meet the requirements and the antenna matches well			

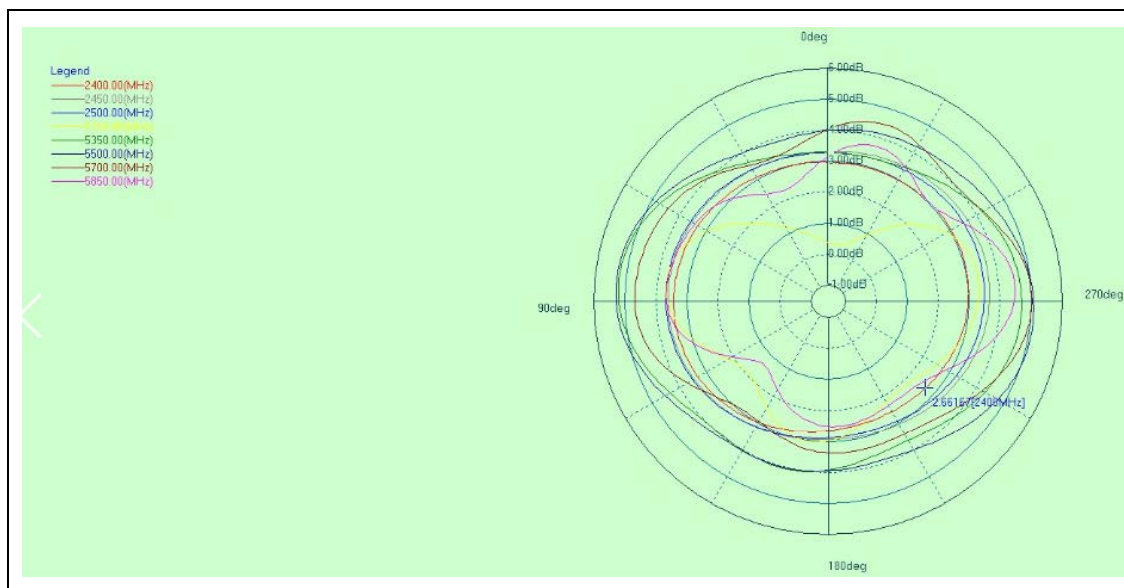
Normal temperature electrical performance test results

order number	Inspection items	units	Performance index requirements	Inspection results		senten ce
				Sample No. :		
1	frequency range	MHz	2400–2500/5150–5850	2400–2500/5150–5850		OK
2	Gain	dBi	3/5	2410	3.5	OK
				2450	4.1	OK
				2500	4.1	OK
				5150	4.0	OK
				5500	5.1	OK
				5850	4.8	OK
3	Isolation degree	dB	≤ -15	2410	–24	OK
				2450	–21	OK
				2500	–21	OK
				5150	–20	OK
				5500	–25	OK
				5850	–23	OK
4	Return loss	dB	≤ -10	2410	–14	OK
				2450	–14	OK
				2500	–17	OK
				5150	–25	OK
				5500	–17	OK
				5850	–15	OK
5	productiveness	/	$\geq 60\%$	2410	86%	OK
				2450	92%	OK
				2500	95%	OK
				5150	71%	OK
				5500	81%	OK
				5850	79%	OK

3Ddirectional diagram	XOY_PLANE	XOZ PLANE
2450MHz		

3Ddirectional diagram	XOY_PLANE	XOZ PLANE
5150MHz		
5850MHz		





S11

antenna1

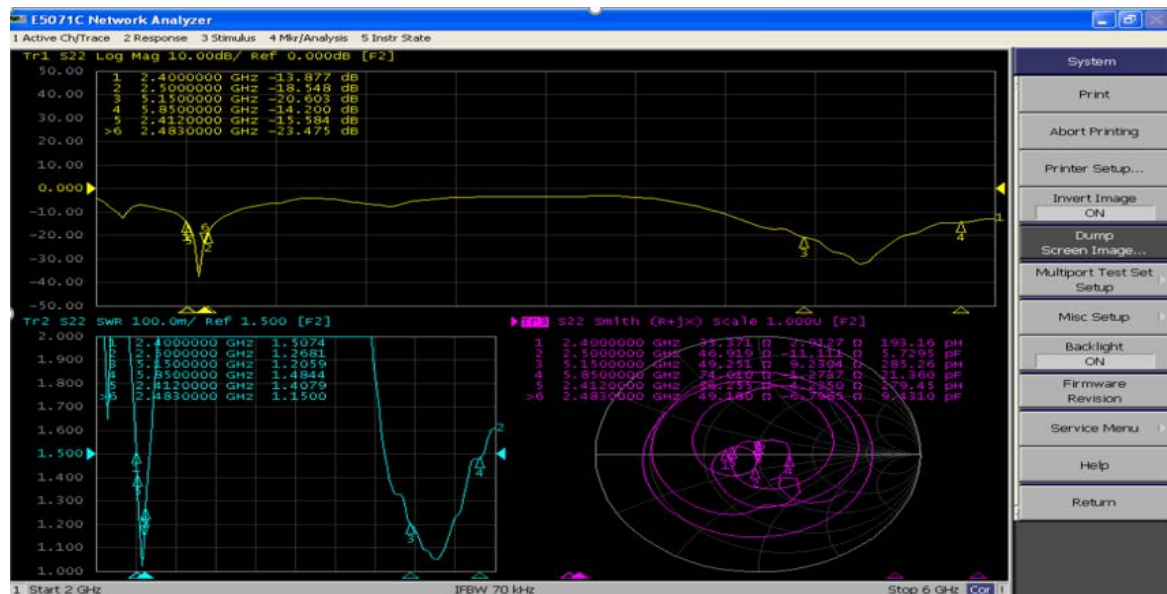
frequency

2412MHz-2500 MHz/5150MHz-5850MHz



S22

antenna2 frequency 2412MHz-2500 MHz/5150MHz-5850MHz



S21 (Isolation degree)

antenna1/2 frequency 2412MHz-2500 MHz/5150MHz-5850MHz

