

天线规格书
Antenna specification for approval

客户名称 Customer name	中柏		
机型 Model	S7-15.6 寸森创达XU156		
天线频段 Antenna frequency	2.4GHZ&5GHz		
天线功能 Antenna function	WIFI&BT&5Gwifi		
天线材质 Antenna material	FPC	FPC 颜色 FPC color	黑色
型号 model	F900Y-1B1-A		
料号 Material number	F900Y-1L24B-260-A		
客户料号 Customer Part Number			
索沃德承认签章 Ward accepted the signature		客户承认签章 Client acknowledges signature	
结构 structure		采购 Purchase	
文控 Document control		结构 structure	
射频 radio frequency		工程 engineering	
审核 To examine		品质 QC	
承办人 Responsible 李婷婷		审核 To examine	
日期 date 2023.01.03	盖章区 Seal area	日期 date 2023.01.03	盖章区 Seal area

二:概述

(1)Antenna performance

- 1.This approval sheet supports for MID project. FPC antennas include in this project. This report is for the performance of WIFI&BT antenna.
- 2.Antenna shape size: Meet the requirement of MID
- 3.Antenna band: 2.4GHz~5GHz
- 4.Antenna material: Antenna material meet the requirement of MID
- 5.Adhesive performance: Adhesive performance meet the requirement of MID
- 6.Antenna performance meet the spec below:

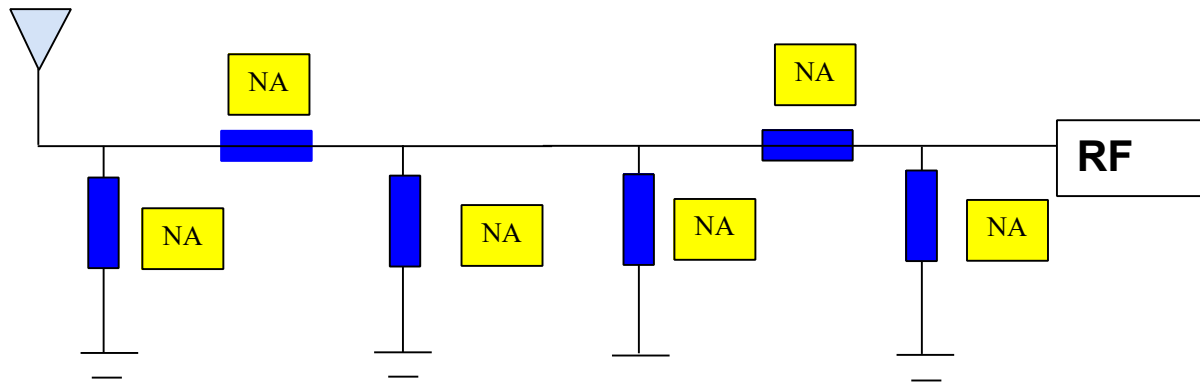
Description	2.4GHz~6GHz	Units
VSWR	≤ 2.0	
Average Antenna Gain	3.01dbi for 2.4G, 2.72dbi for 5G	dB
Antenna Efficiency	≥ 40	%
Feed Impedance	50 ohms	
Operating Temperature	-40 to +85 deg C	
Polarization / Azimuth	Linear / Omni-directional	

(2)Mechanical Information

Mechanical Dimension	
Cable Length	475mm/GRAY
Description	WIFI&BT antenna
Material	FPC
Coaxial Cable	50 Ω /O. D. 0.81mm
Environmental	
Operation Temperature	-40 to +85 deg C
Storage Temperature	-40 to +85 deg C

三:匹配电路图&机器图片&天线图片

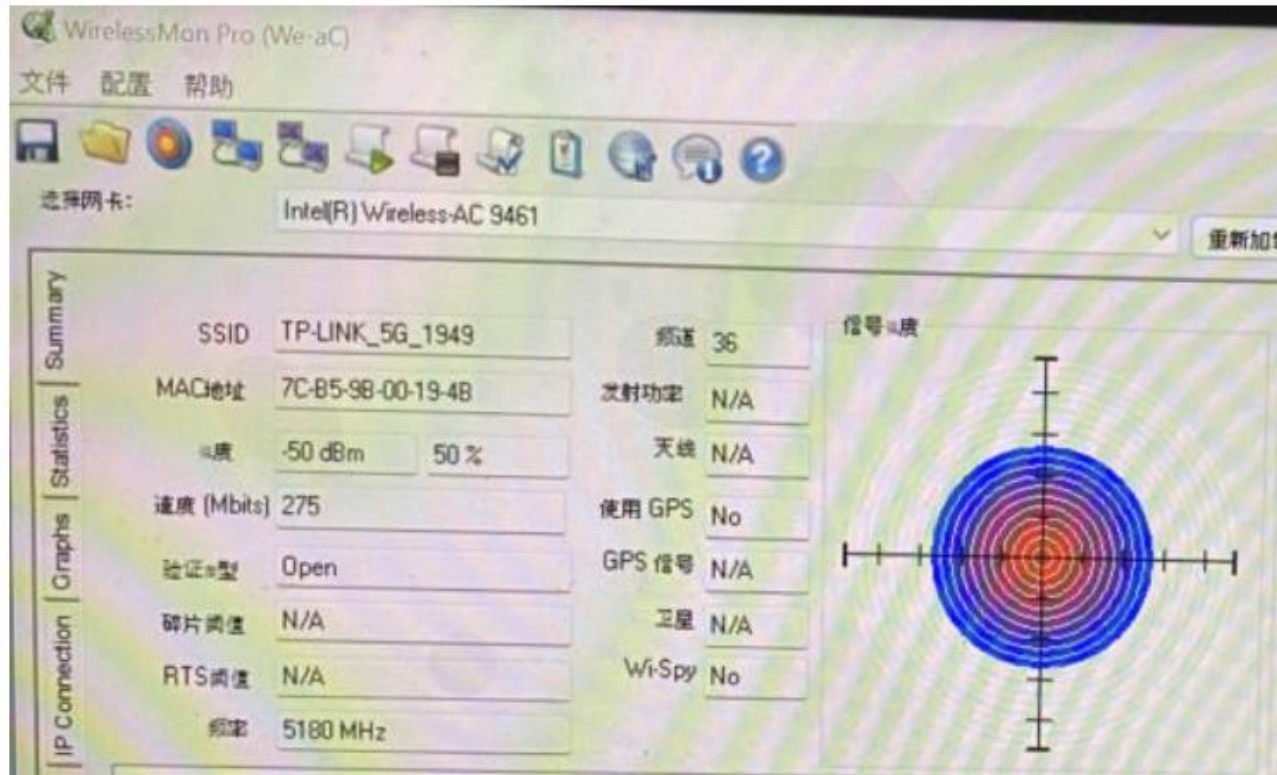
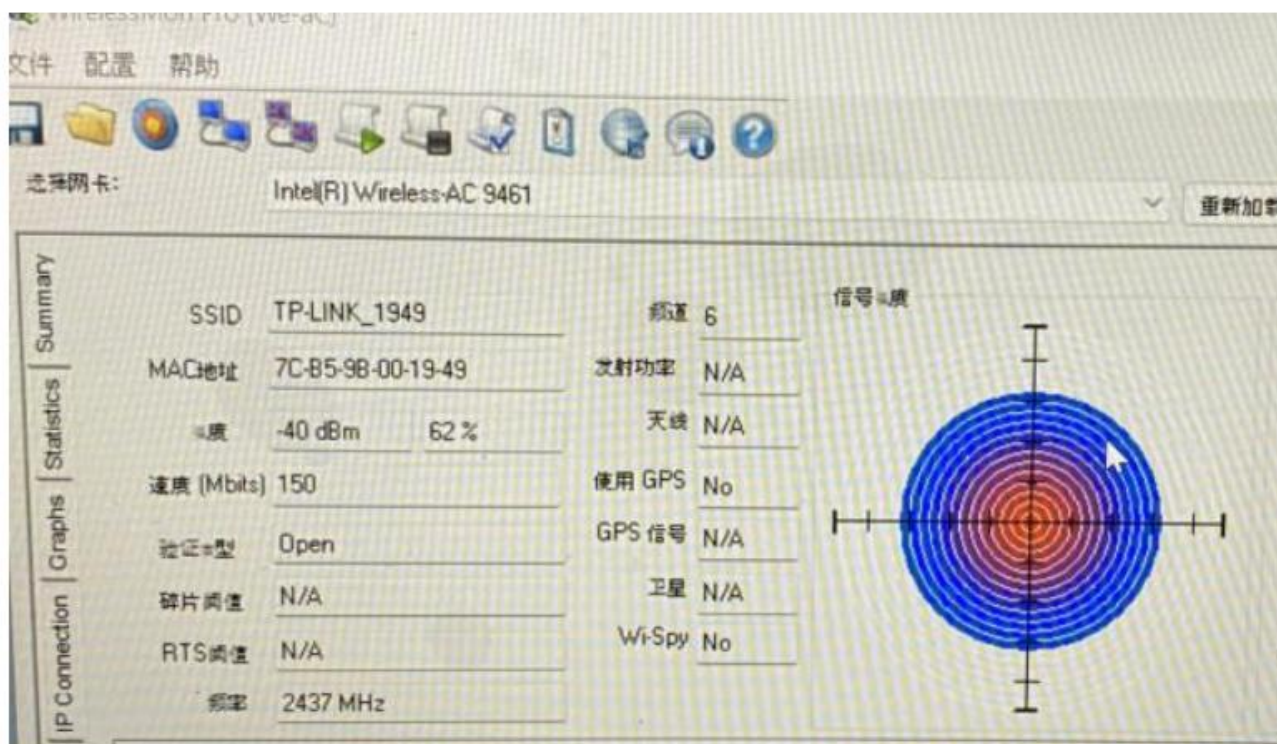
(1)Matching circuit



四: Standing wave ratio and Gain

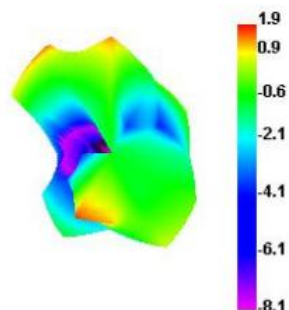


Passive Test For 2.4G				Passive Test For 5G-WIFI			
Freq	Effi	Effi	Gain	Freq	Effi	Effi	Gain
(MHz)	(%)	(dB)	(dBi)	(MHz)	(%)	(dB)	(dBi)
2400	58.33	-2.34	2.81	5000	39.26	-4.06	0.02
2410	58.52	-2.33	2.78	5100	29.64	-5.28	-0.66
2420	60.77	-2.16	2.92	5200	29.5	-5.3	-0.94
2430	62.41	-2.05	3.01	5300	34.42	-4.63	1.52
2440	61.75	-2.09	2.89	5400	40.61	-3.91	1.47
2450	59.17	-2.28	2.58	5500	36.54	-4.37	2.72
2460	59.25	-2.27	2.39	5600	28.94	-5.38	1.39
2470	54.02	-2.67	1.91	5700	37.09	-4.31	1.7
2480	53.02	-2.76	1.84	5800	44.95	-3.47	2.37
2490	54.31	-2.65	1.99	5900	41.06	-3.87	1.28
2500	57.01	-2.44	2.28	6000	41.39	-3.83	1.03

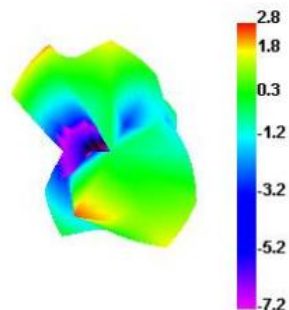


五:3D pattern

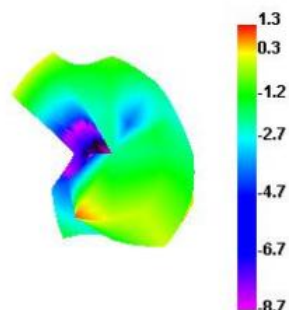
2400.000MHz



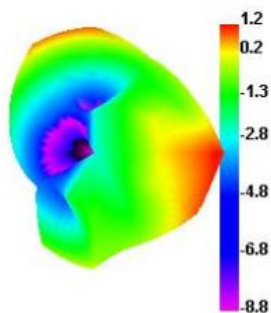
2450.000MHz



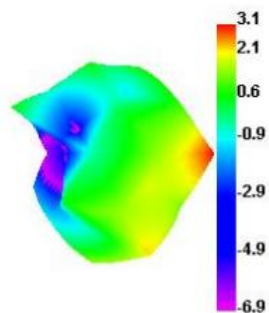
2500.000MHz



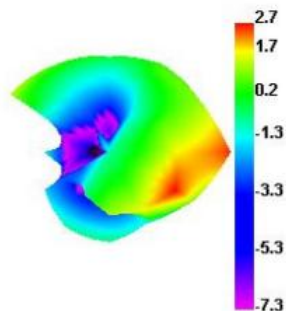
5000.000MHz



5500.000MHz



6000.000MHz



六:Antenna drawing

