

Material requirement specification for the SED070 project antenna

Customer name: XieChuang

Customer product name: SED070

Product name: WIFI antenna

Product specification: See the BOM table for more details

Product code: _____

Change Content CV:

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The Supplier acknowledges the signature of the following documents:

Responsible person / date		IQC/ date	Review / Date	Approval / Date
MD				
RF				

The Demander acknowledges the signature (please send it back after the confirmation):

The demander's judgment result: ☐ qualified ☐ unqualified			
Development & Design Engineer / Date	SQE Engineer / Date	Purchasing Leader / Date	Development Manager approval / date

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1. Overview

1.1 Scope of application

This requirement specifies the antenna technical requirements and material requirements specifications for SED070 products.

This requirement is applicable to the antenna selection, testing and acceptance of SED070 products.

1.2 Project basic information

Antenna name:	SED070
Antenna band:	WIFI:2.4G
Antenna material:	FPC antenna + coaxial

2. Technical index requirements

2.1 Active Reporting

2.2 Test instructions

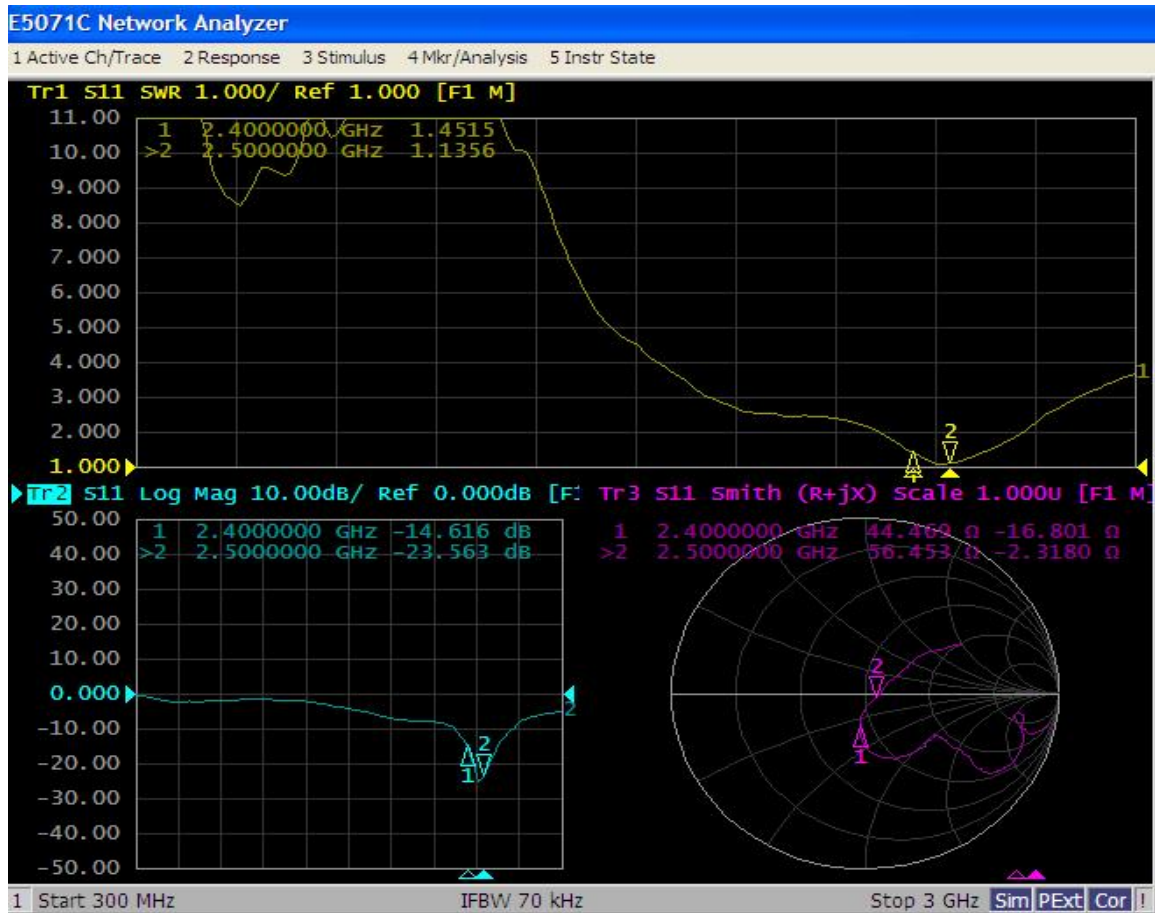
Test tools: Agilent8960 instrument, R & S CMW500, full wave far field ETS dark room, high precision positioning system and its controller and computer with automatic test program

Test environment: temperature $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$, humidity $50\% \pm 15\%$

Test method: DUT is fixed in the center of the turntable with H plane, on the same horizontal line as the center of the horn antenna.

The positioning system enables the DUT to rotate in the whole sphere to satisfy the high-precision 3 D positioning. Each RF instrument and turntable controller communicate with the PC with automatic test software through the GPIB interface.

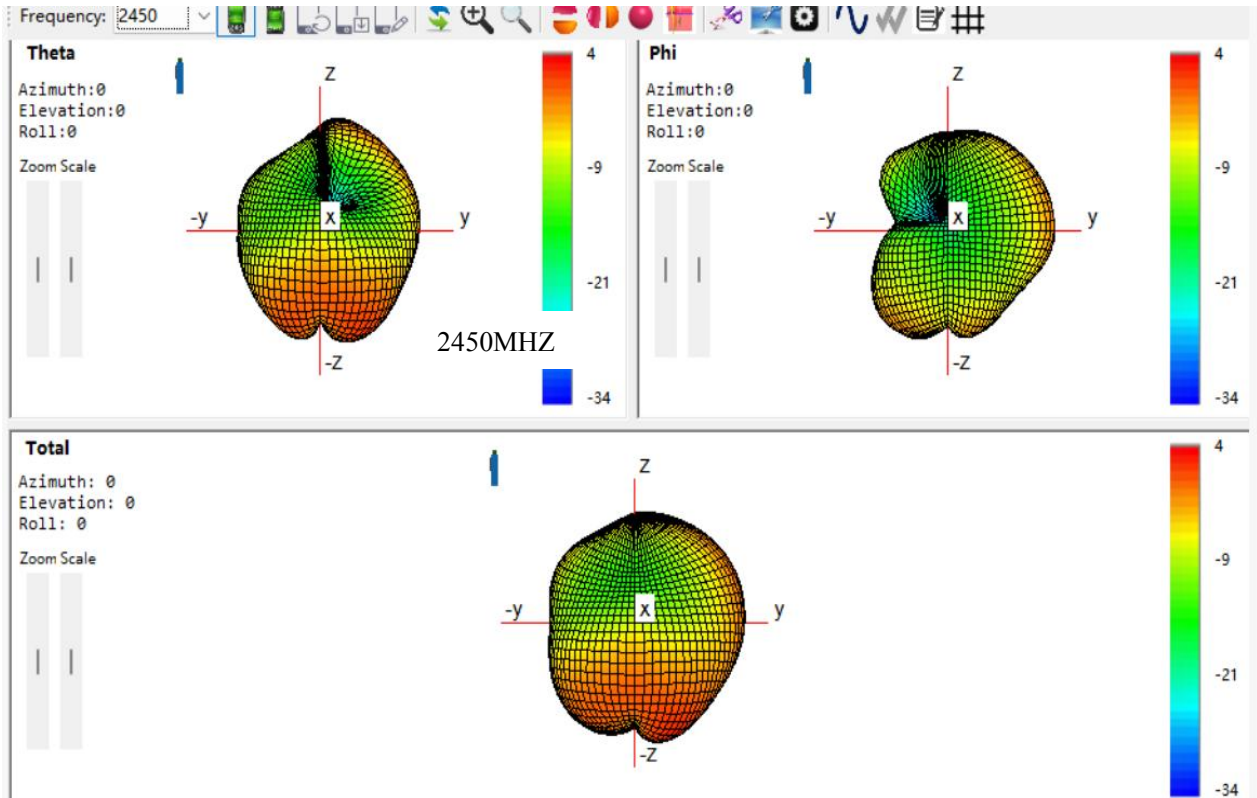
2.2.1 WIFI antenna (file LOGMAG + VSWR + SMITH)



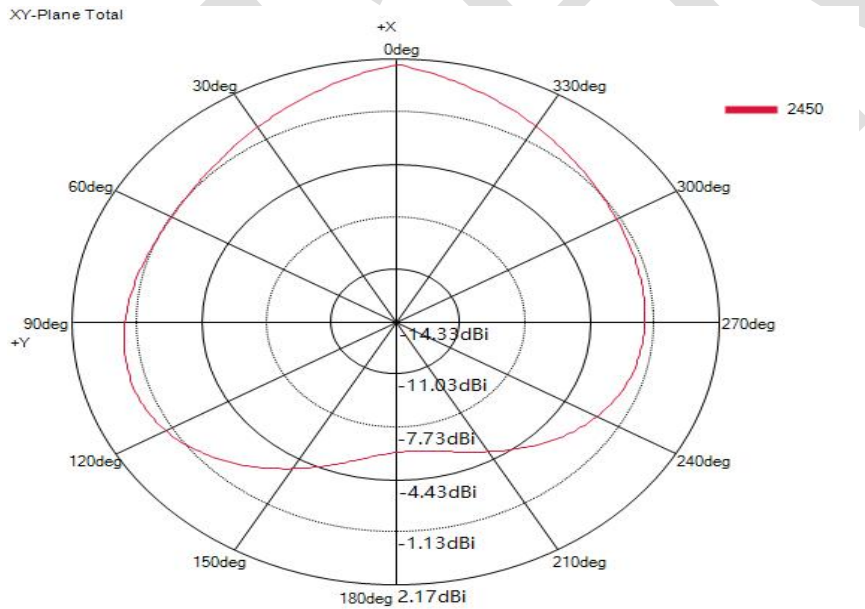
2.2.2 WIFI-Antenna efficiency and gain

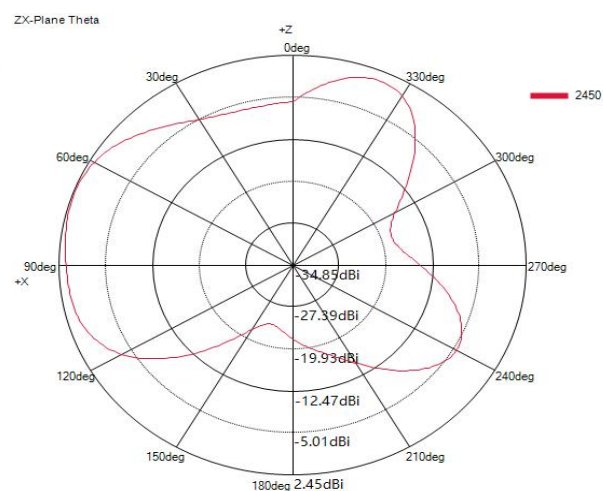
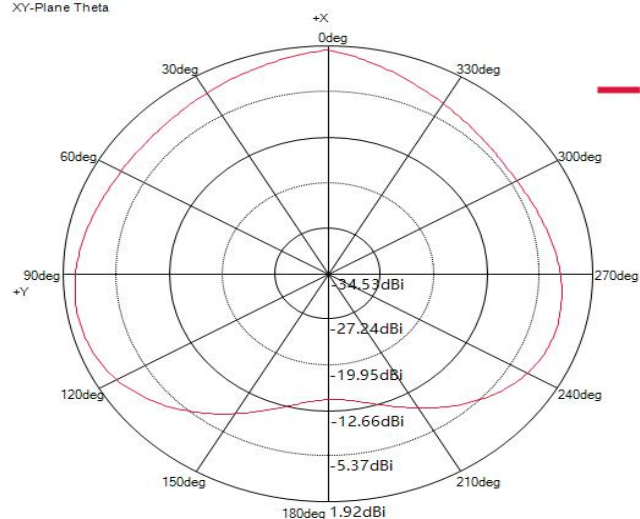
Passive Test For 2400MHz~2500MHz				
Freq	Effi	Effi	Gain	
(MHz)	(%)	(dB)	(dBi)	
2400	52.6%	-2.79	1.76	
2410	52.9%	-2.77	1.75	
2420	53.4%	-2.72	1.83	
2430	53.9%	-2.68	1.96	
2440	54.0%	-2.68	2.09	
2450	52.4%	-2.81	2.45	
2460	51.2%	-2.91	1.98	
2470	51.7%	-2.87	1.93	
2480	51.3%	-2.90	1.91	
2490	51.1%	-2.92	1.84	
2500	50.1%	-3.00	1.79	

2.2.3 WIFI antenna 3D Apple logo



2.2.4 WIFI antenna Production pattern diagram

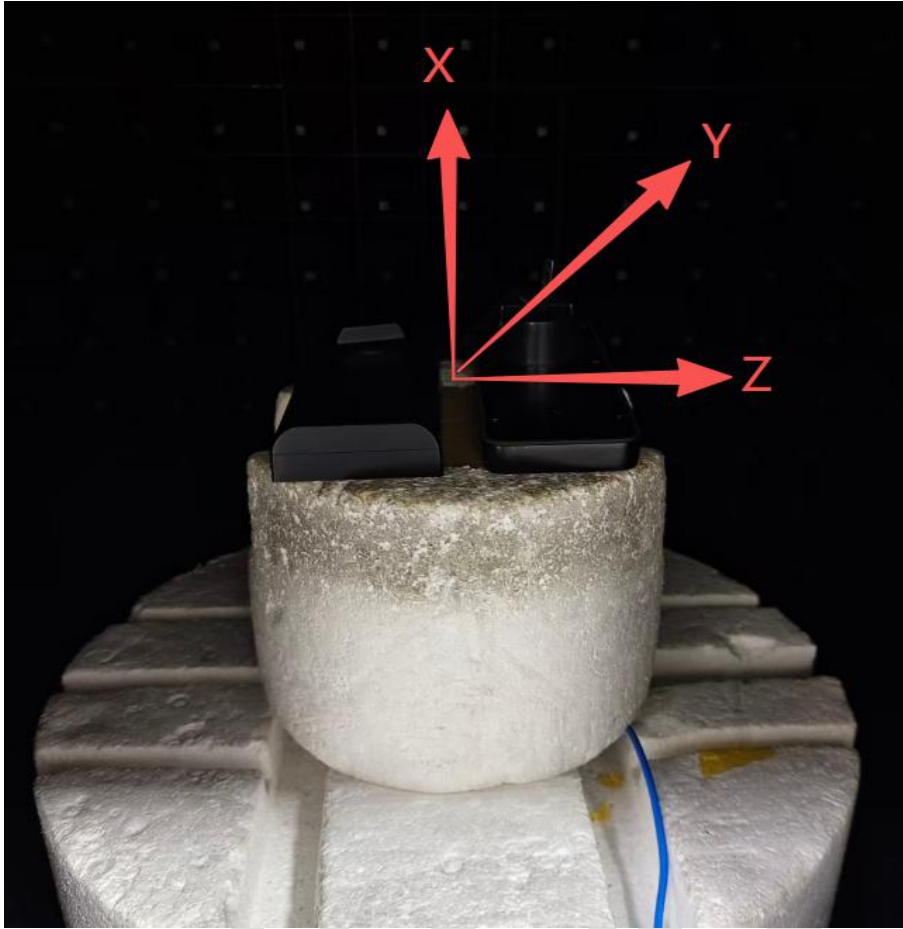




2.2.5 Antenna active parameters

	CH	TRP (dbm)	TIS (dbm)
B model (11M)	CH (low)	16.77	
	CH (Medium)	16.83	
	CH (high)	16.89	-84.99
G model (54M)	CH (low)	15.55	
	CH (Medium)	15.53	
	CH (high)	15.13	-74.55
N model (Mcs7)	CH (low)	14.73	
	CH (Medium)	14.75	
	CH (high)	14.88	-71.76

2.2.6 Antenna position



3.1 WIFI

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Shenzhen Yusheng Communication Equipment Co., LTD

4. Bill Of Material



Shenzhen Yusheng Communication Equipment Co., LTD

661028 (SED070) -BOM

edition: R:A

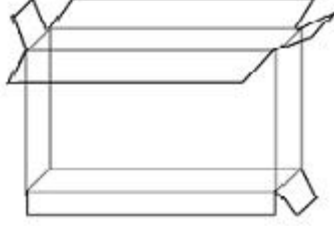
client: 661

Type of aircraft: 661026

Set a date: 20260127

Item	*Material code	*Material name	name	*Machine type	Specification and model	colour	*UNIT.	dosage	remark
1	661028-IA-RA	WIFI module		SED070	BLACK WIFI-FPC weldCoaxial line	black	PCS	1	
1.1	661028-IA-01-RA	WIFI-FPC		SED070	BLACK WIFI-FPC Electrolytic copper weld 30.80*18.45*0.14MM	black	PCS	1	
1.2	661028-IA-02-RA	WIFI-Coaxial line		SED070	BLACK weld 1.13*68.00MM	black	PCS	1	
1.3	661028-IA-03-RA	assemble		SED070	assemble	black	PCS	1	
verify:			examine:			manufacture: FJW			

5. Package schematic diagram

Packaging method diagram		
product name	WIFI module	
P / N	661028	
Project model	SED070	
File details	Carton Size 1: 270*260*200MM Carton Size 2: 260*200*200MM Carton Size 3: Depending on the order quantity / volume	
	Boating method	Packaging by order quantity
	Total number of binning	Packaging by order quantity
labeling requirement	Tag Size 1: Universal use 100 * 100mm Tag Size 2: According to customer requirements	
matters need attention		
1. Due to the limitation of order quantity, the packing method of each material is the size of the box according to the total quantity of the order or the physical volume		
2. Storage temperature: room temperature		
3. Preservation conditions: store them in a cool and dry place		