

G580HPRO Project antenna specification

Customer name: 360

Customer product name: G580HPRO

Product name: Shrapnel

Product specification: see BOM for details

material code: _____

Change Content CV:

order number	edition	state	Start and end date	person liable	page number	remarks
1	editio princeps	editio princeps	2024-1-24	Li Jieyi	10	

The Supplier acknowledges the signature that:

Responsible person / date		IQC/ date	Review / Date	Approval / Date
MD	Feng Jiwu	Su Guanfeng	Zeng xianghao	
RF	Chen Kehong			

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

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

catalogue

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1. Overview

1.1 Scope of application

▪

This requirement applies to the selection, testing and acceptance of G580HPRO antennas.

1.2 Project basic information

Antenna name:	<u>G580HPRO</u>
Antenna frequency:	2402-2484Mhz
Antenna material:	Srapnel / ceramic (common D058)

2. Technical index requirements

2.1 Introduction of test items and equipment

inventory	test item	equipment
Active test	TRP,TIS	Integrated tester, microwave darkroom

2.2 Active Reporting

2.2.1 Test instructions

Test tools: Agilent8960 instrument, R & SCMW500, 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.

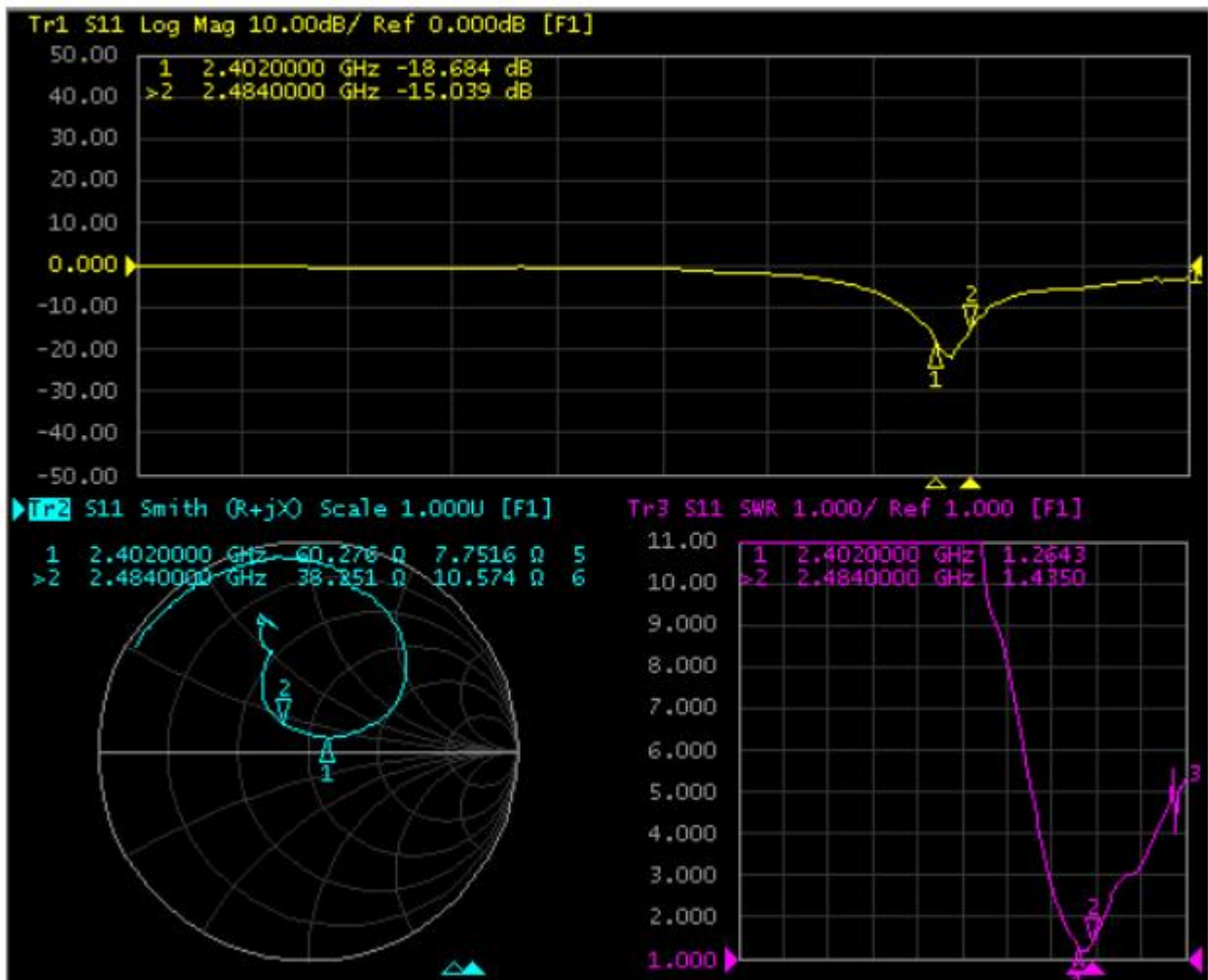
The positioning system enables the DUT to rotate in the whole sphere to satisfy the high-precision 3 D positioning. Each RF instrument and turntable controller communicate with the PC with automatic test software through the GPIB interface.

2.2.2 Antenna active parameters

frequency range	CH	TRP (db)	TIS (dbm)
WIFI-11B	1	13.32	-82.15
	6	12.95	-81.65
	13	13.46	-82.41

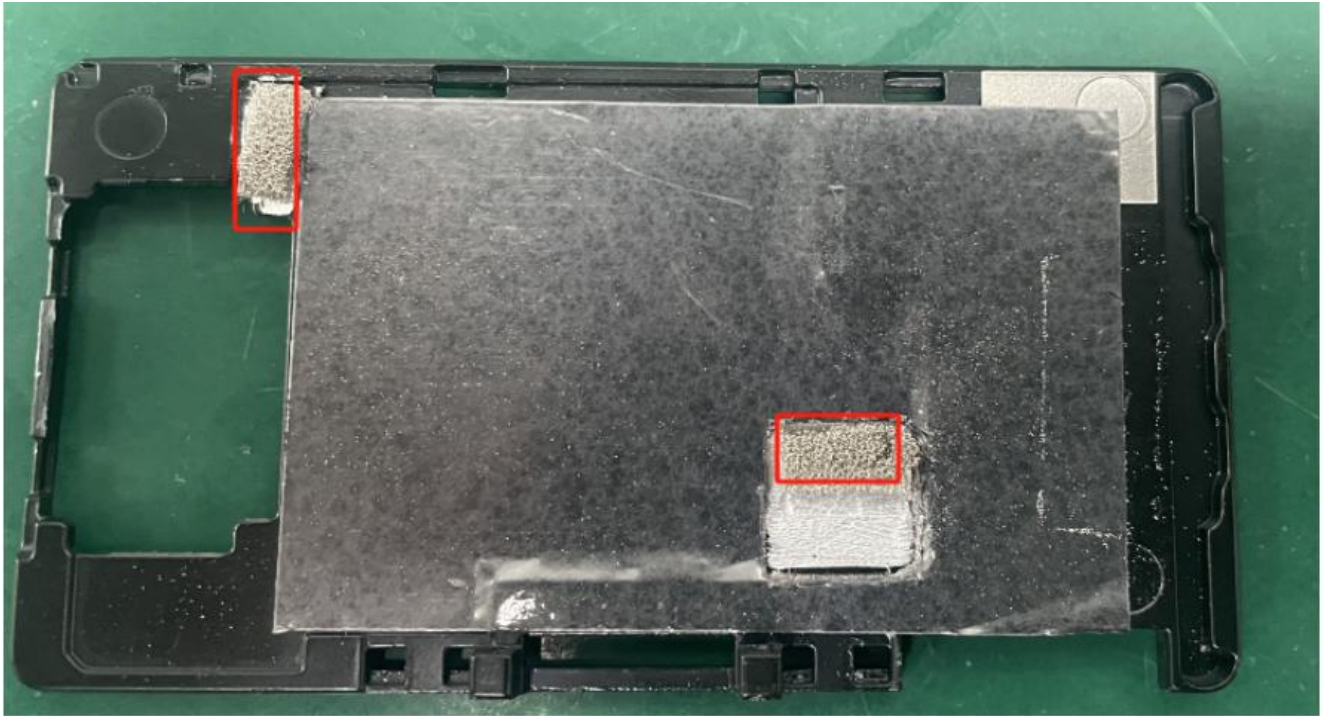
Match not modified

2.2.3 passive antenna parameters

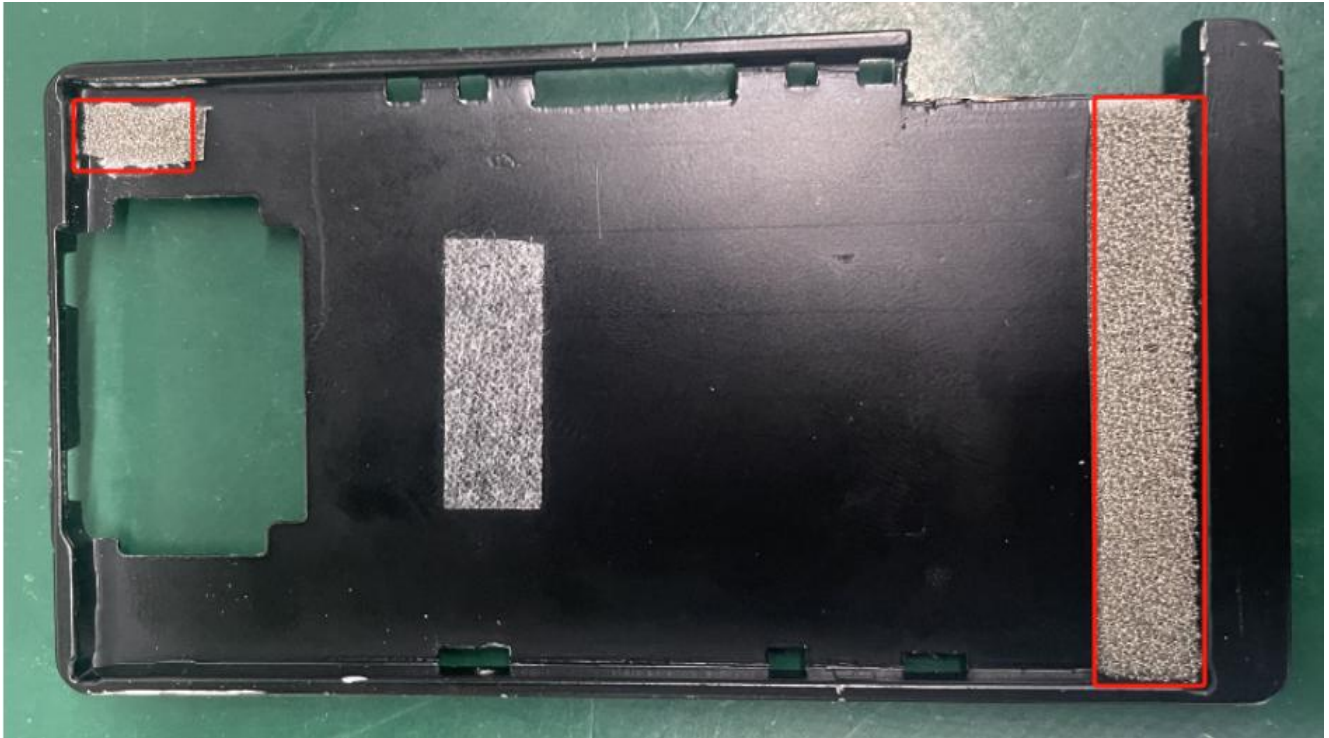


2.2.4 Antenna environment treatment

As shown in the figure, the metal frame radium carving, and add conductive sponge and mainboard grounding



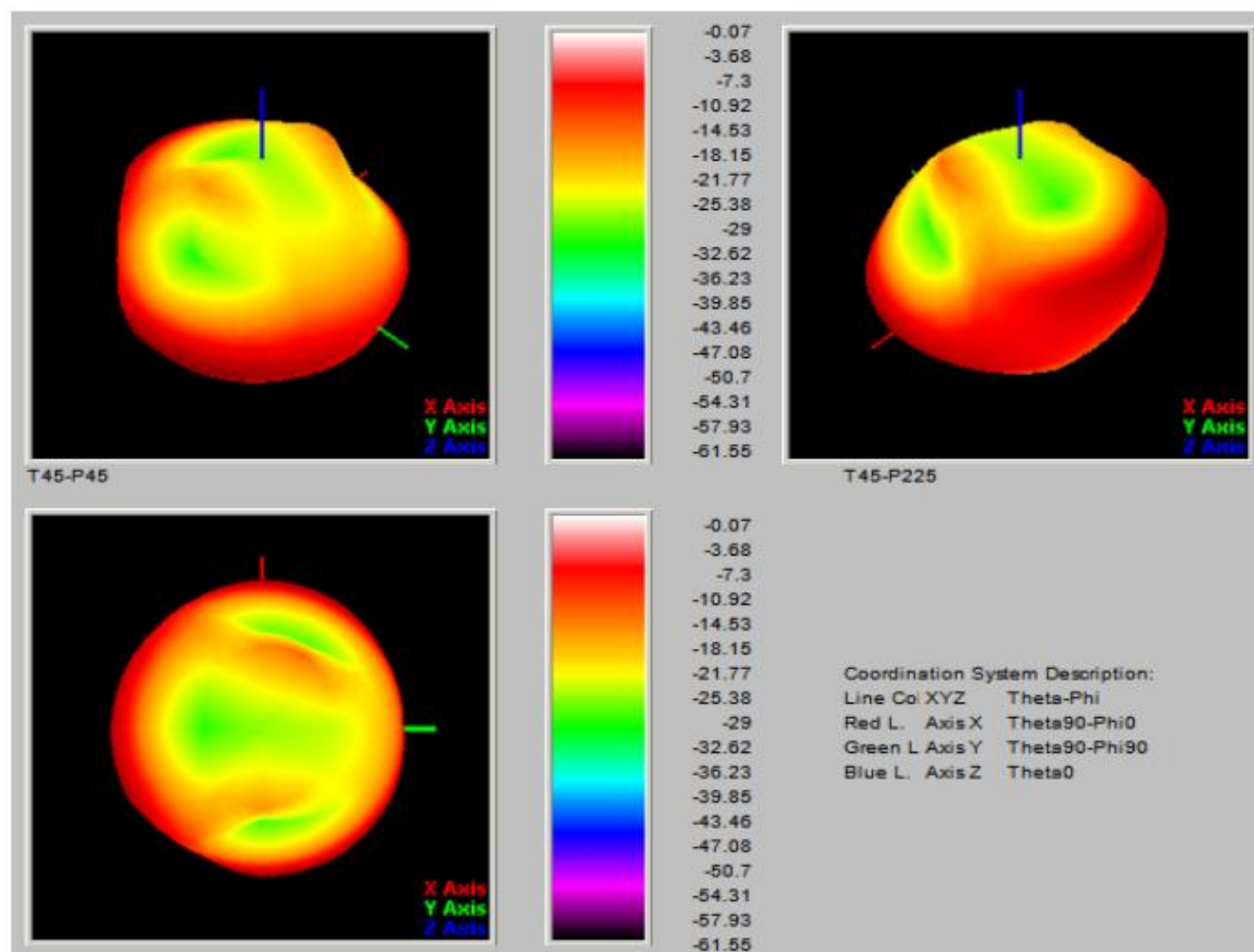
As shown in the figure, the radium carving in the metal frame is added, and the conductive sponge and the display screen are grounded. The thickness of the conductive sponge is subject to full contact



2.2.5 Antenna passive parameters

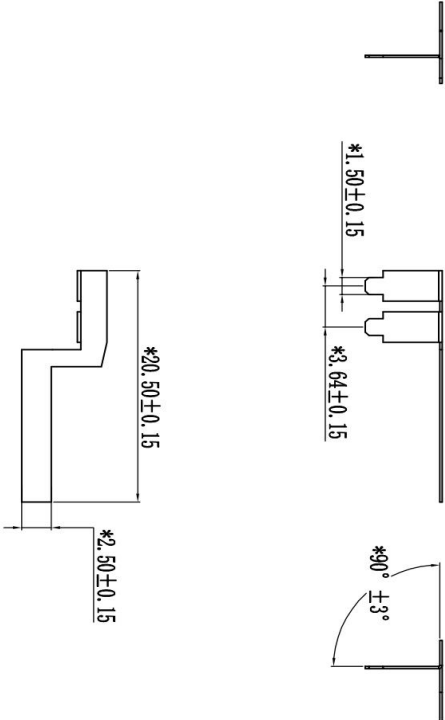
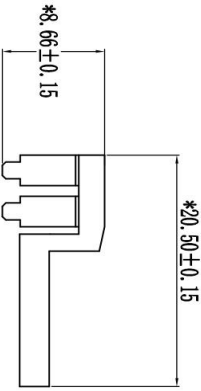
Freq (main antenna efficiency)	Effi (%)	Gain (dbi)
2400MHZ	26	1.2
2420MHZ	30	1.4
2440MHZ	36	1.5
2460MHZ	34	1.4
2480MHZ	32	1.2
2500MHZ	28	1.0

2.2.6 Direction-2.4G- -WIFI



3. Structural drawings

shra^p_{nel}

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Technical requirements: 1. Material: Copper-Nickel-Zinc Alloy, thickness 0.20mm; 2. The size with * and the size with tolerance are the key control sizes, and other sizes are controlled according to the tolerance of the detail column; 3. The raw edge is not more than 1/4 of the material thickness, and the difference between the knife edge and the joint is not more than 0.1mm; 4. Clean surface, no oil, dirt, etc.; 5. No indentation, fracture, deformation and other bad; 6. The product needs to undergo 48-hour salt spray test. 7. Products meet ROHS standards and reliability test requirements.																																																			
Shenzhen Yu Sheng Communication Equipment Co., Ltd. <table border="1"> <thead> <tr> <th>Model</th> <th>NAME</th> <th>DATE</th> <th>Design</th> <th>MD</th> <th>JFB</th> </tr> </thead> <tbody> <tr> <td>CS80HPR0</td> <td>WIFI-antenna</td> <td>20240124</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Part NO</td> <td>233054-1A</td> <td>Review</td> <td>RF</td> <td>JFB</td> </tr> <tr> <td></td> <td>Material quality</td> <td>thickness 0.20mm</td> <td></td> <td></td> <td>CKH</td> </tr> <tr> <td></td> <td>Mold surface treatment</td> <td></td> <td>confirm</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Appearance treatment</td> <td></td> <td>UNIT</td> <td>mm</td> <td>projection</td> </tr> </tbody> </table>				Model	NAME	DATE	Design	MD	JFB	CS80HPR0	WIFI-antenna	20240124					Part NO	233054-1A	Review	RF	JFB		Material quality	thickness 0.20mm			CKH		Mold surface treatment		confirm				Appearance treatment		UNIT	mm	projection												
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Shenzhen Yusheng Communication Equipment Co., LTD

4F 4A, Building 2, South Taiyun Chuanggu Park, Guangming Avenue, Guangming New District, Shenzhen

4. Bill Of Material



深圳市昱晟通讯设备有限公司

Shenzhen Yusheng Communication Equipment Co., LTD

233054 (G580 HPRO) -BOM表

edition: R:A

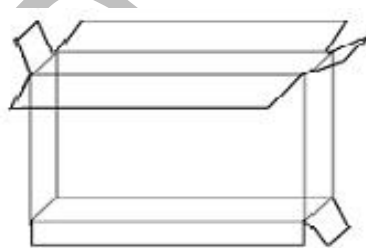
client: 233

Type of aircraft: 233054

Set a date: 2024/01/24

Item	*Material code	*Material name	name	*Machine type	Specification and model	colour	*UNIT.	dosage	remark
1	233054-IA-RA	WIFI-antenna		G580 HPRO	thickness 0.20mm 20.50*8.66*0.2MM	WHITE	PCS	1	
1.1	233054-IA-RA-01	WIFI-antenna		G580 HPRO	thickness 0.20mm 20.50*8.66*0.2MM	WHITE	PCS	1	
verify:			examine:			manufacture: FJW			

5. Packing diagram

Packaging method diagram														
product name	<u>antenna</u>													
P / N	<u>233054</u>													
Project model	<u>G580HPRO</u>													
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	深圳市昱晟通讯设备有限公司 <table border="1"> <tr> <td>客户名称</td> <td>*****</td> </tr> <tr> <td>订单编号</td> <td>*****</td> </tr> <tr> <td>项目名称</td> <td>*****</td> </tr> <tr> <td>物料编码</td> <td>*****</td> </tr> <tr> <td>数 量</td> <td>****pcs</td> </tr> <tr> <td>出货日期</td> <td>****年**月**日</td> </tr> </table> 地址：深圳市光明新区光明大道南太云创谷园区2栋4楼4A	客户名称	*****	订单编号	*****	项目名称	*****	物料编码	*****	数 量	****pcs	出货日期	****年**月**日
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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														

(This figure is only a packaging diagram, subject to the actual mass production)