

# Antenna Specifications

<b>Model</b>	I318F		
<b>client</b>	HONG KONG IPRO TECHNOLOGY CO.,LIMITED		
Specification Description			
	<b>product content</b>	<b>Specification</b>	<b>customer material code</b>
	GSM Antenna	shrapnel	
	bluetooth antenna	Φ0.8*25mm	
change resume			
<b>serial number</b>	<b>date</b>	<b>Version</b>	<b>Brief description of the changes</b>
1	2022-05-16	V1.0	new project
2			
3			

Supplier sample confirmation					
<b>research and development</b>	<b>structure</b>	<b>audit</b>	<b>determination</b>		
			PASS <input checked="" type="checkbox"/> FAIL <input type="checkbox"/>		
Customer sample confirmation					
<b>electronic</b>	<b>structure</b>	<b>project</b>	<b>purchase</b>	<b>quality</b>	<b>audit</b>
<b>Reasons for rejection or other considerations:</b>					

# 1、Electrical performance test report

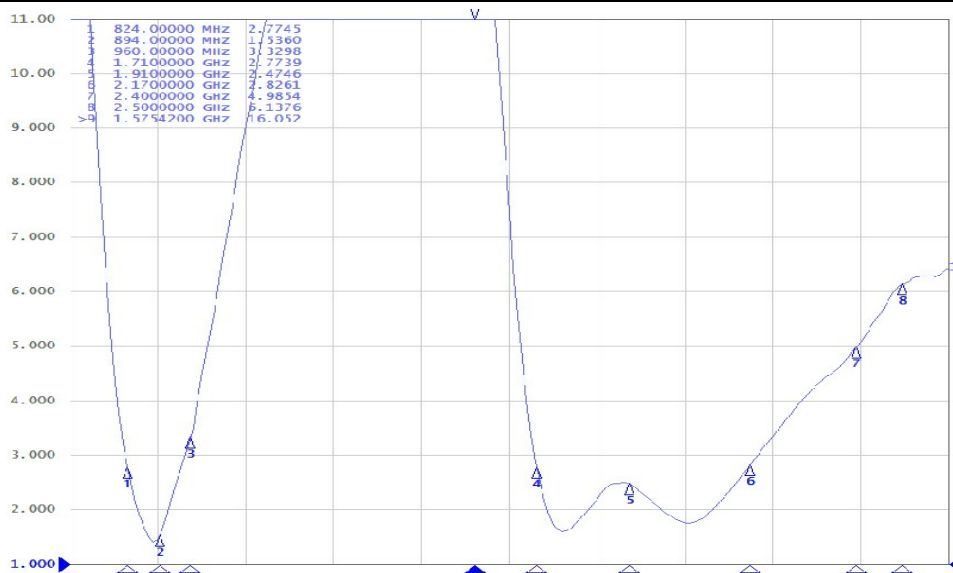
## 1.1 Test items and equipment

	Test items	equipment
1. Passive testing	1. VSWR parameter 2. Return loss parameter	Network Analyzer: HP 8753D 3D Darkroom Antenna Test System (ETSstest system, Network Analyzer, Tester)
2. Active test	1. transmit power 2. receive level 3. Receive sensitivity	Tester : Agilent E5515C 3D Darkroom Antenna Test System (ETSstest system, Tester )

## 1.2 GSM Passive Test Report

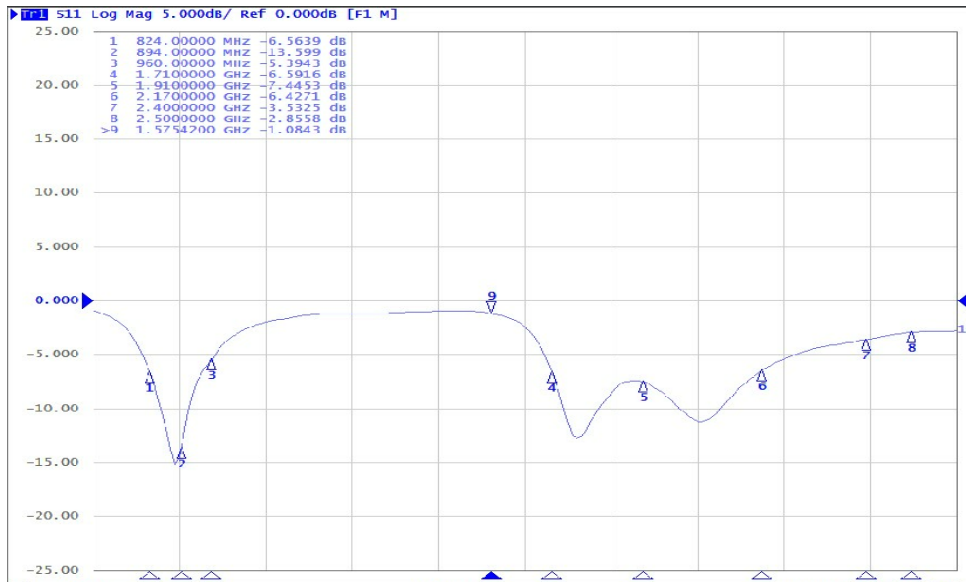
VSWR parameter value

frequency (MHZ)	824	960	1710	1990
RL	2.7	3.3	2.7	2.4



Return loss parameter value

frequency (MHZ)	824	960	1710	1990
RL	-6.5	-5.3	-6.5	-7.4



## 2、 Matching Circuit Description

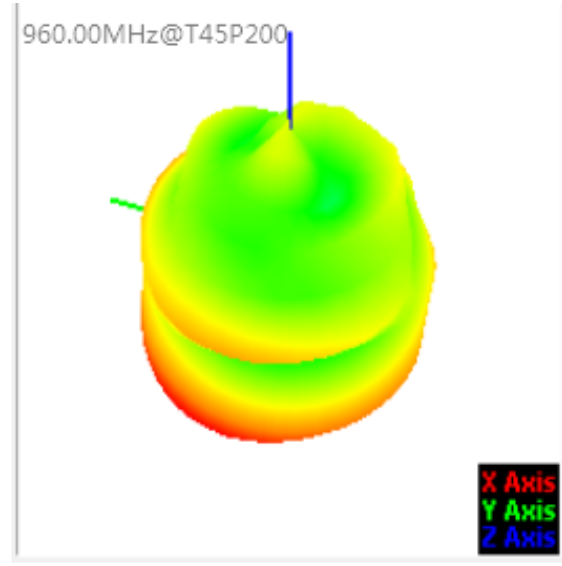
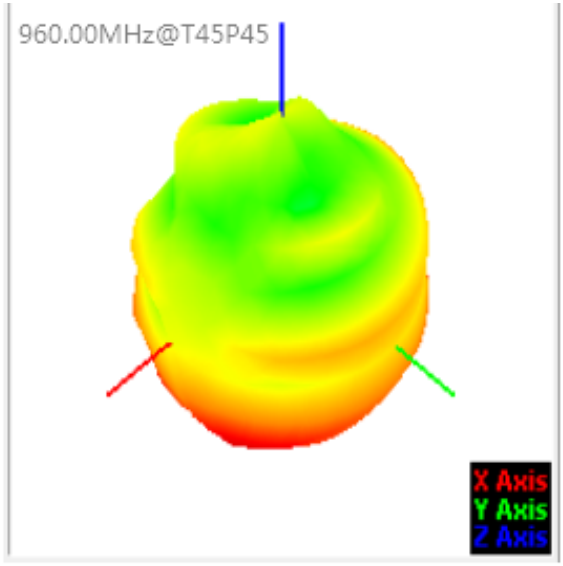
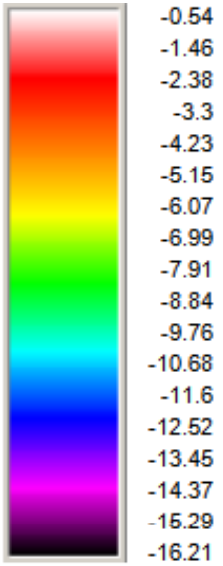
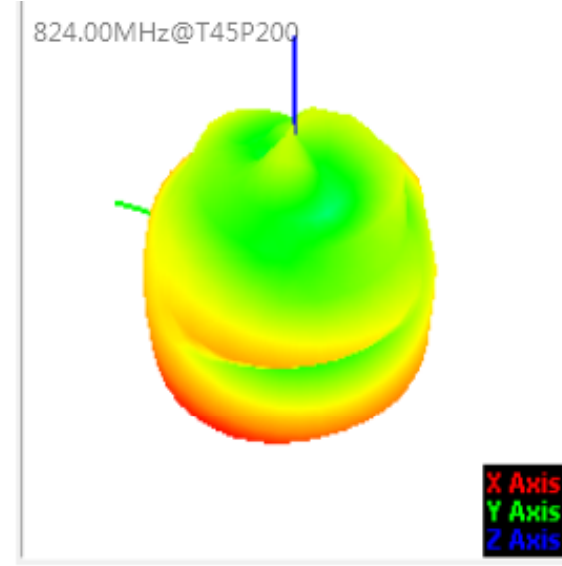
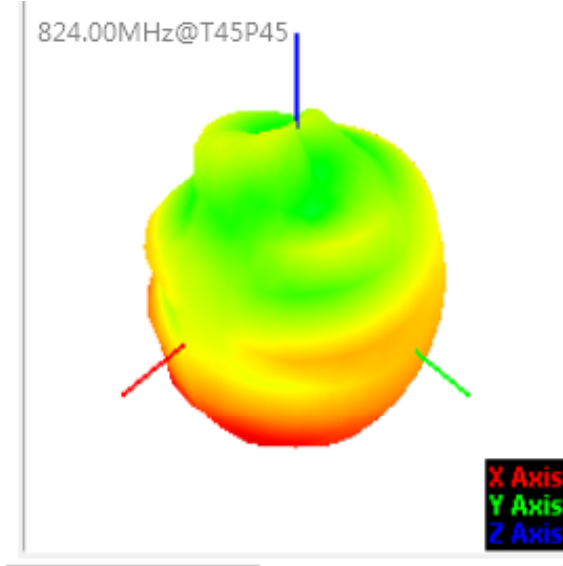
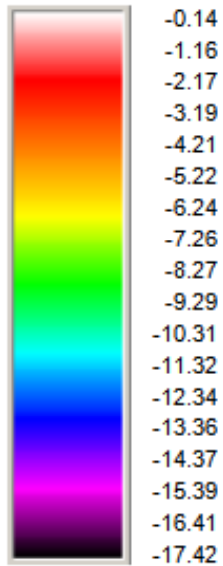
No changes have been made to the original matching circuit of your company.

## 3、 testing report

	GSM900			DCS1800		
Channel	1	62	124	512	698	885
TIS			-102.19			-103.3
	GSM850			PCS1900		
Channel	128	190	251	512	661	810
TIS			-102.12			-103.26

## 4、 Antenna Gain:

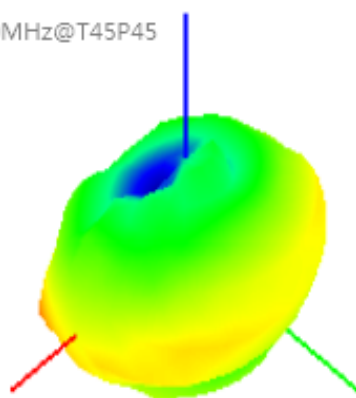
Frequency (MHz)	Gain (dBi)
850 (824MHz~894MHz)	-0.16
900 (880MHz~960MHz)	-0.17
1800 (1710MHz~1800MHz)	0.36
1900 (1850MHz~1990MHz)	0.38
BT (2400MHz~2500MHz)	0.63





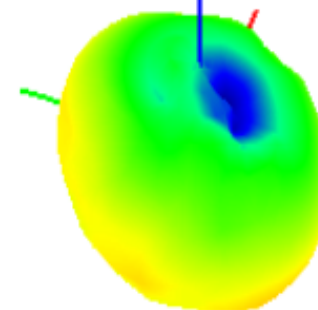
0.38  
-0.95  
-2.29  
-3.62  
-4.96  
-6.29  
-7.62  
-8.96  
-10.29  
-11.62  
-12.96  
-14.29  
-15.62  
-16.96  
-18.29  
-19.63  
-20.96  
-22.29

1710.00MHz@T45P45



X Axis  
Y Axis  
Z Axis

1710.00MHz@T45P200

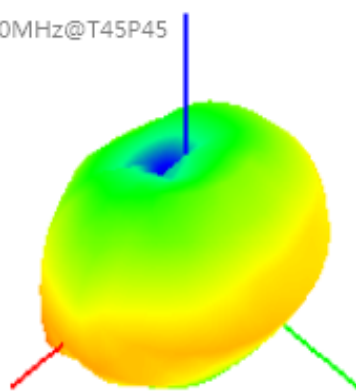


X Axis  
Y Axis  
Z Axis



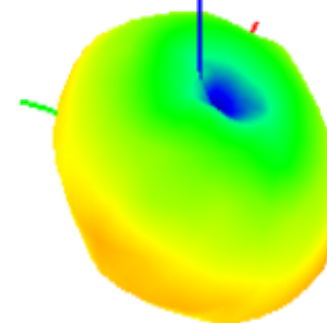
0.43  
-0.86  
-2.15  
-3.44  
-4.72  
-6.01  
-7.3  
-8.58  
-9.87  
-11.16  
-12.45  
-13.73  
-15.02  
-16.31  
-17.6  
-18.88  
-20.17  
-21.46

1990.00MHz@T45P45

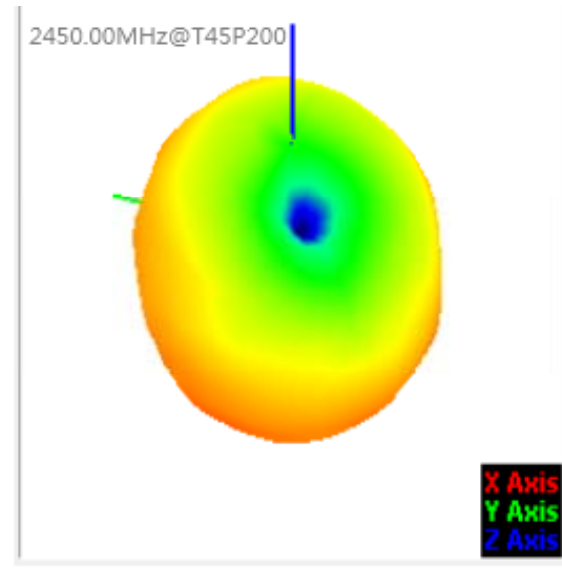
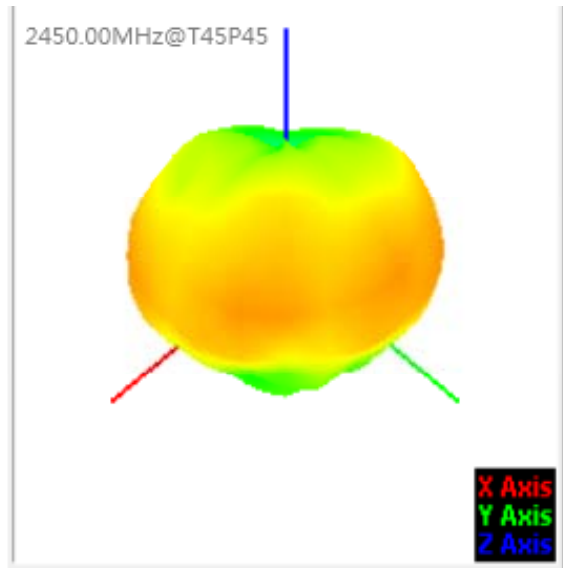
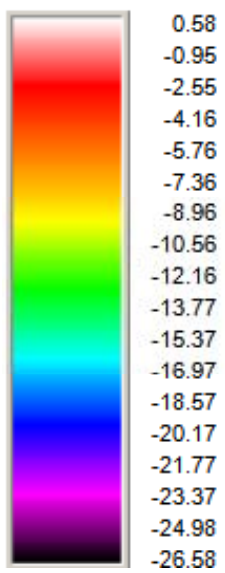


X Axis  
Y Axis  
Z Axis

1990.00MHz@T45P200



X Axis  
Y Axis  
Z Axis

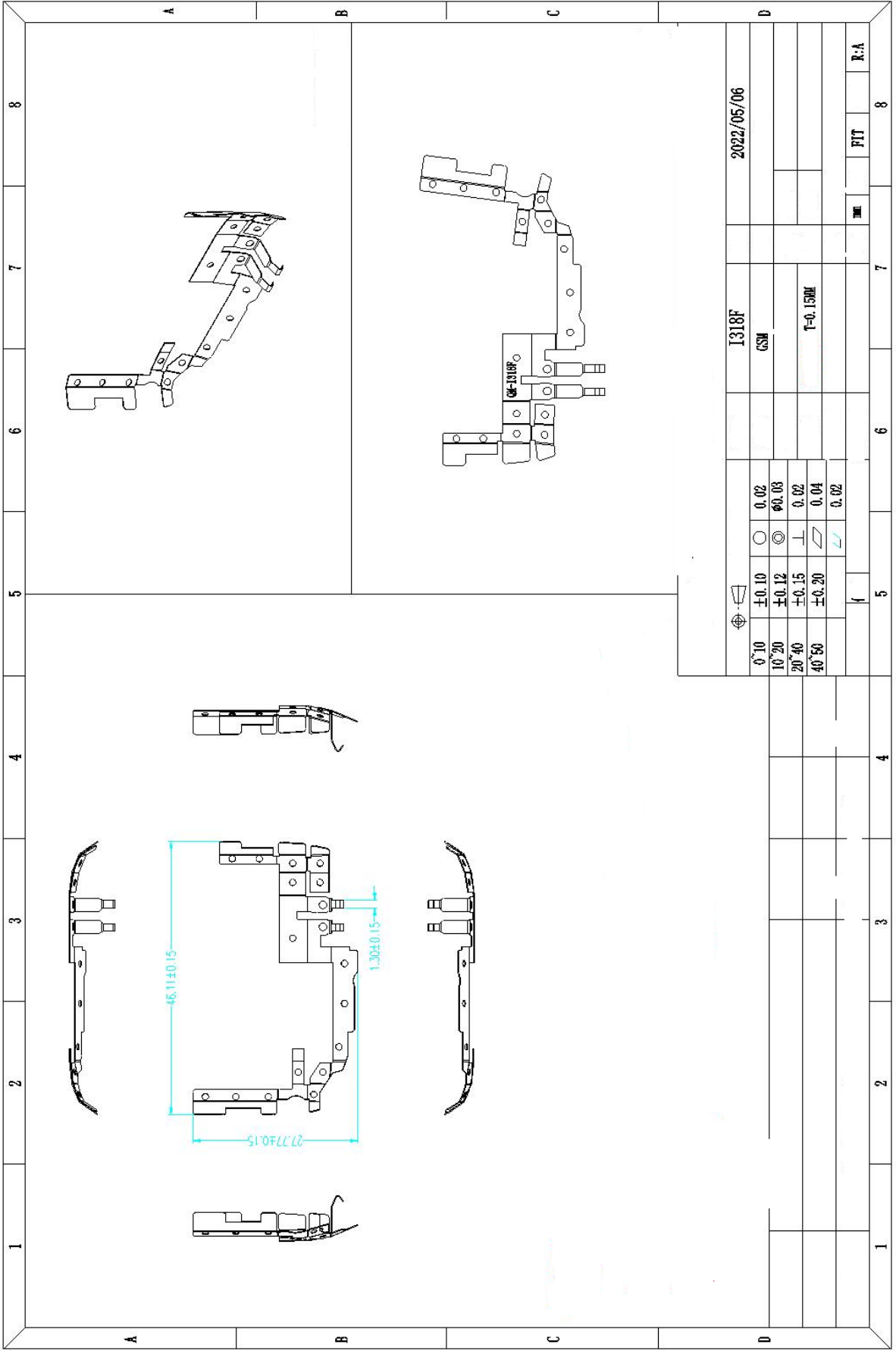


5、 Environmental treatment



Do it according to the prototype environment given by your company

6、 Structural drawings



8

7

6

5

4

3

2

1

A

B

C

D

2022/05/06

I318F

GSM

T=0.15MM

R-A

8

7

6

5

4

3

2

1

A

B

C

D

46.11±0.15

27.77±0.15

1.30±0.15

GF-I318F



