

5.8G Antenna Test Report

Customer	5.8G
Project	5. 8G
Antenna Revision	A1
Product Description	
Product No	
DATE	2023. 03. 9

Purpose

This report is to measure the performance of BT antenna for 5.8G 天线. The antenna operating frequency at 5.8GHz, All test data are showed as below.

Content

1. Product Overview & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
 - 4.1 S11 Parameter
 - 4.2 Test coordinate
 - 4.3 2D Pattern
 - 4.4 OTA Data
 - 4.5 BT Boot measured
5. Antenna Assembly & environmental processing

2. Test System

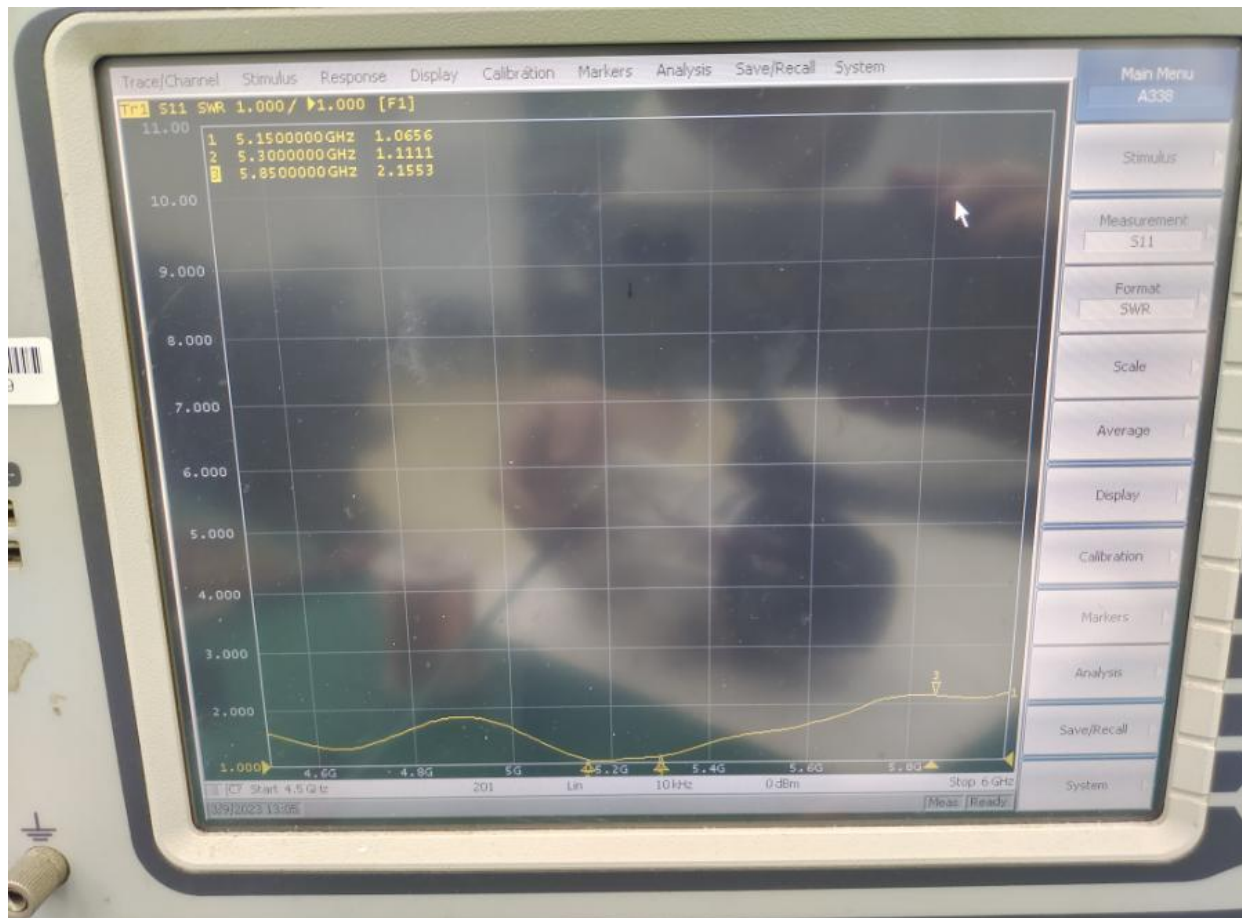
Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	CMW500 & CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C



S11 smith—(5.8G ANT)

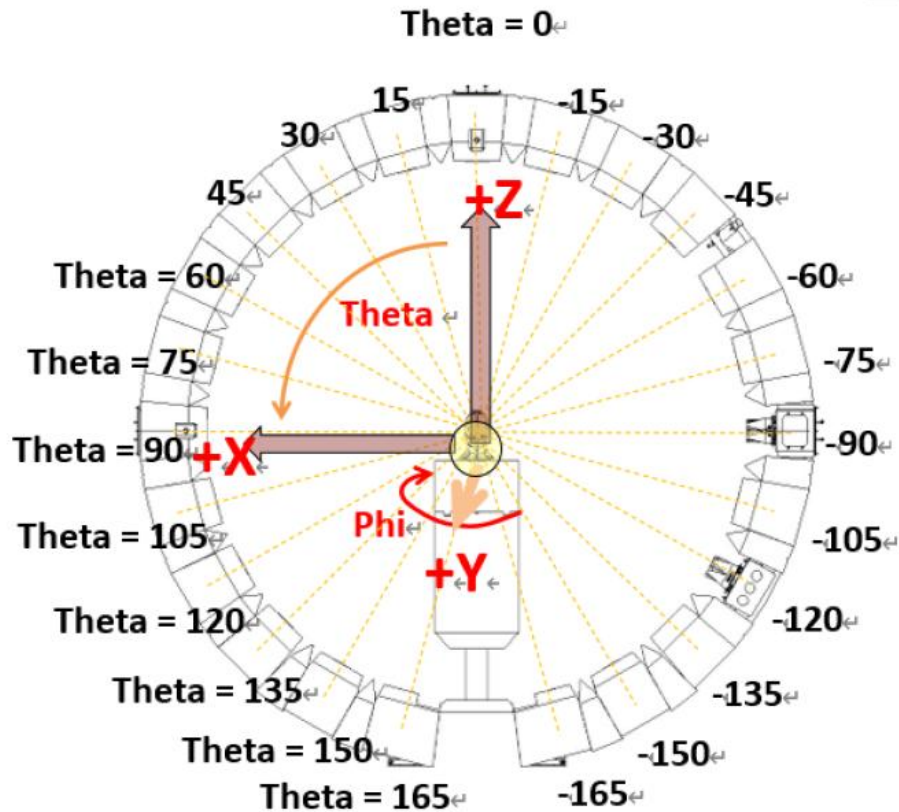


S11 SWR—(5.8G ANT)



Test Result

Sample status & coordinates



Test Result

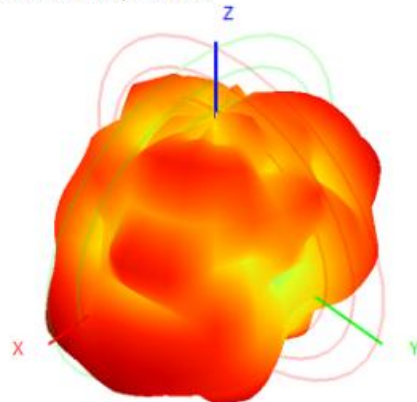
Gain & Efficiency—5.8G- ANT

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
5150.0	41.81	3.24
5200.0	44.66	3.38
5250.0	42.40	3.29
5300.0	45.20	3.28
5350.0	46.73	3.19
5400.0	47.02	3.99
5450.0	44.37	3.54
5500.0	45.13	3.41
5550.0	48.61	3.15
5600.0	44.18	3.81
5650.0	46.84	3.43
5700.0	48.23	3.36
5750.0	40.96	2.92
5800.0	42.21	3.11
5850.0	48.49	3.91

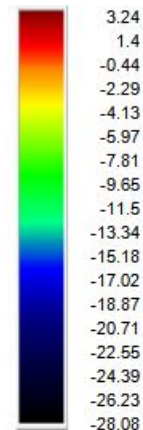
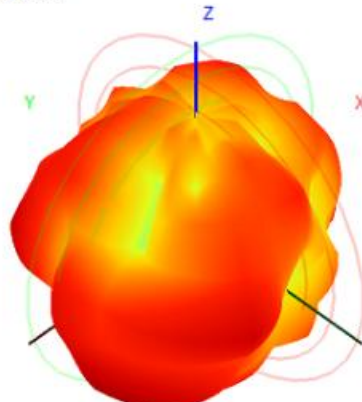
Test Result

2D&3D — 5.8G- ANT

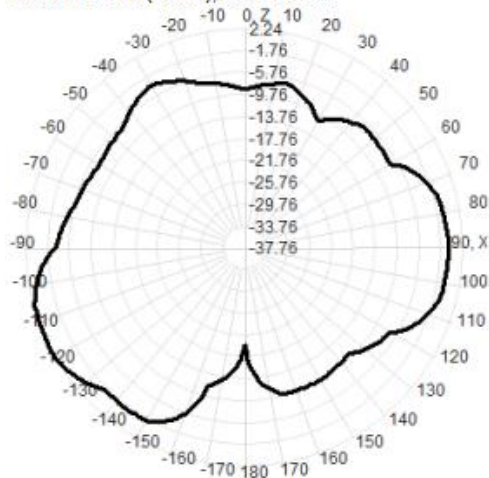
5150.0MHz H+V, Eff: 41.8%



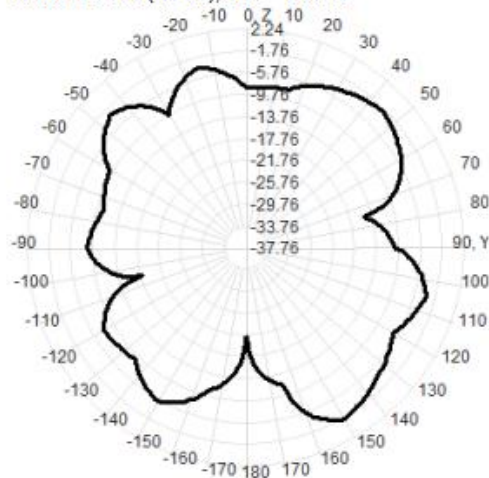
Back View



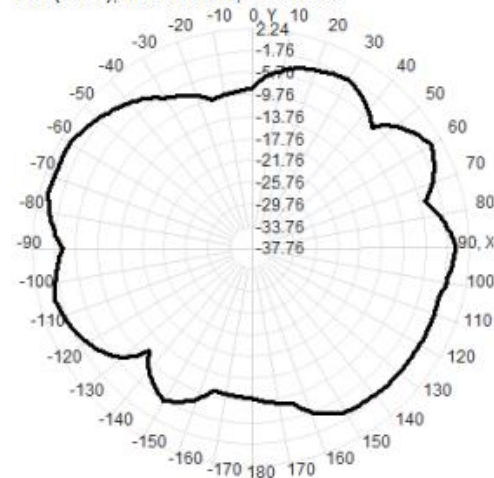
5150.0MHz Total(E1-XZ), Max= 2.24dBi



5150.0MHz Total(E2-YZ), Max= -1.80dBi



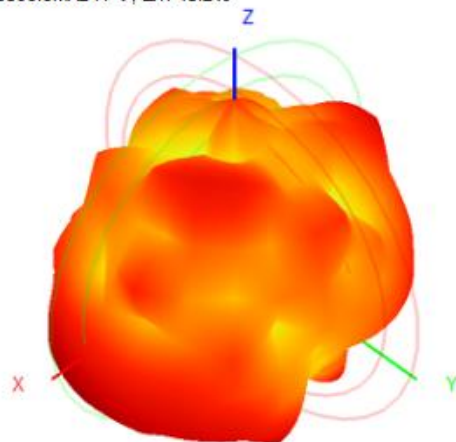
Total(H-XY), Max= 0.58dBi, CirD=12.09



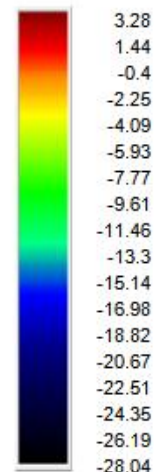
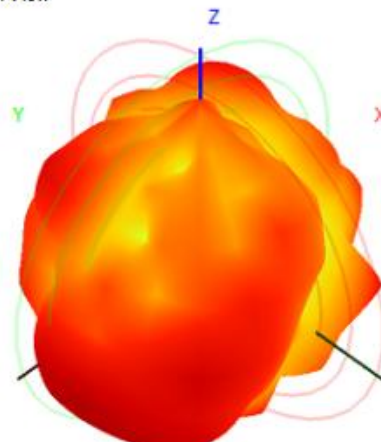
Test Result

2D&3D — 5.8G- ANT

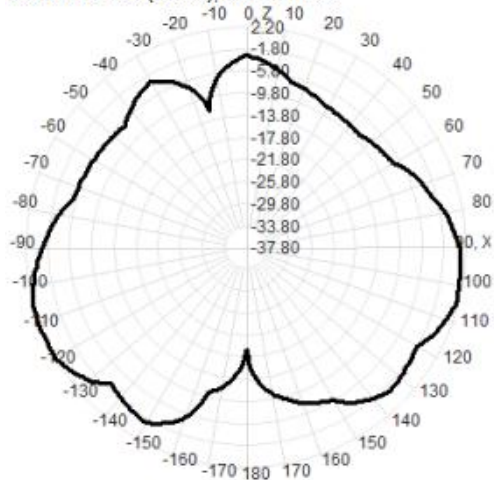
5300.0MHz H+V, Eff: 45.2%



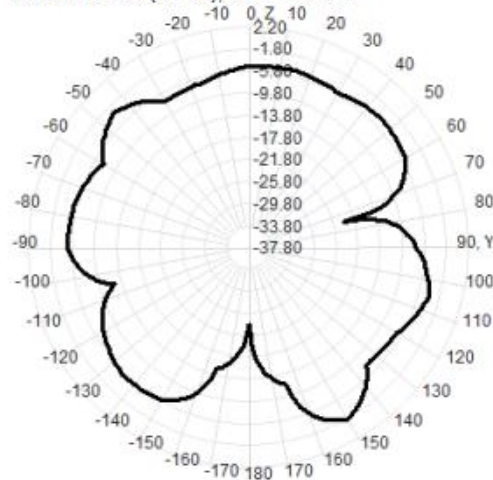
Back View



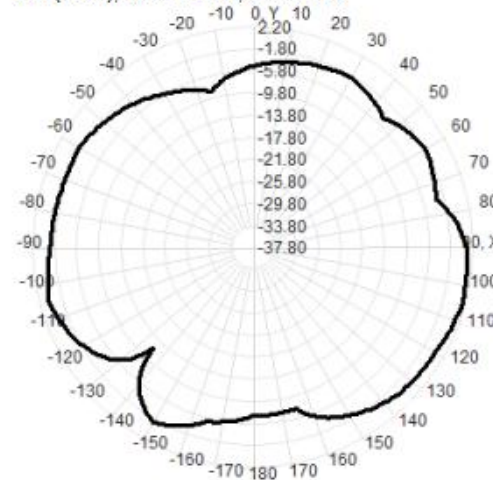
5300.0MHz Total(E1-XZ), Max= 2.20dBi



5300.0MHz Total(E2-YZ), Max= -1.95dBi



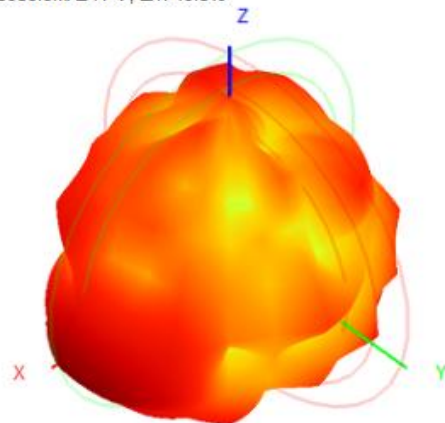
Total(H-XY), Max= 1.36dBi, CirD=13.55



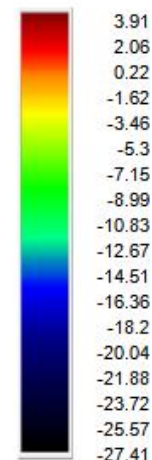
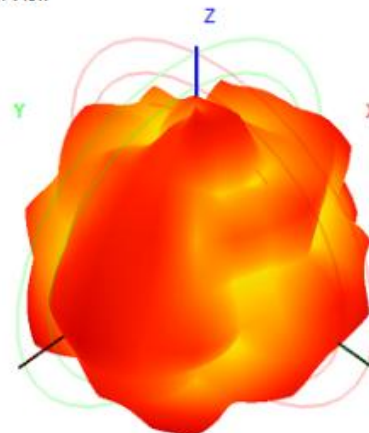
Test Result

2D&3D — 5.8G- ANT

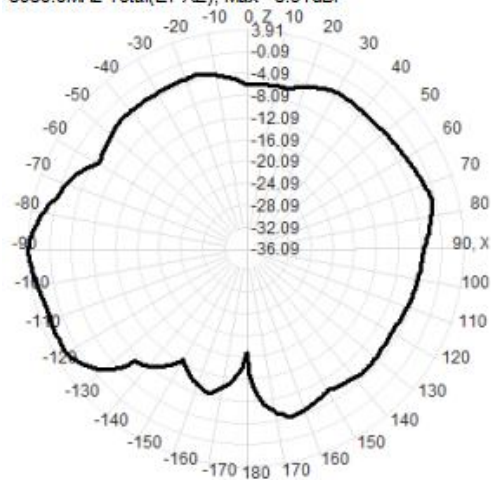
5850.0MHz H+V, Eff: 48.5%



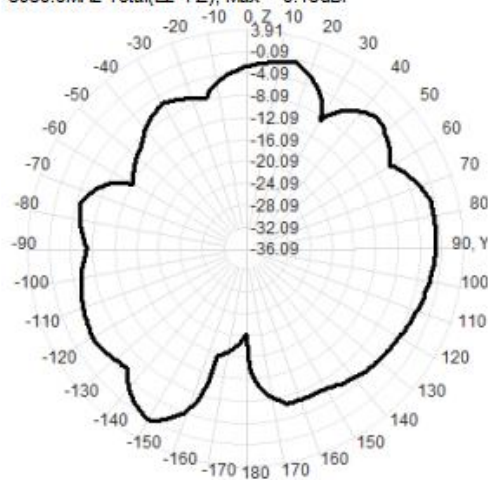
Back View



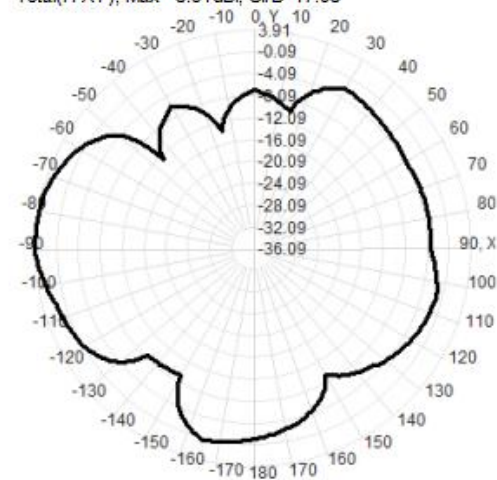
5850.0MHz Total(E1-XZ), Max= 3.91dBi

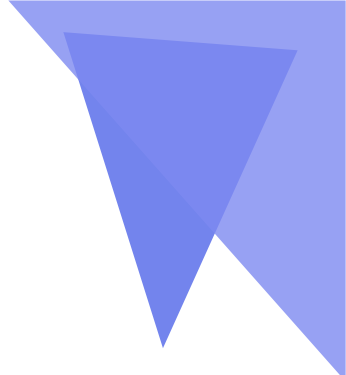


5850.0MHz Total(E2-YZ), Max= -0.13dBi



Total(H-XY), Max= 3.91dBi, CirD=17.85





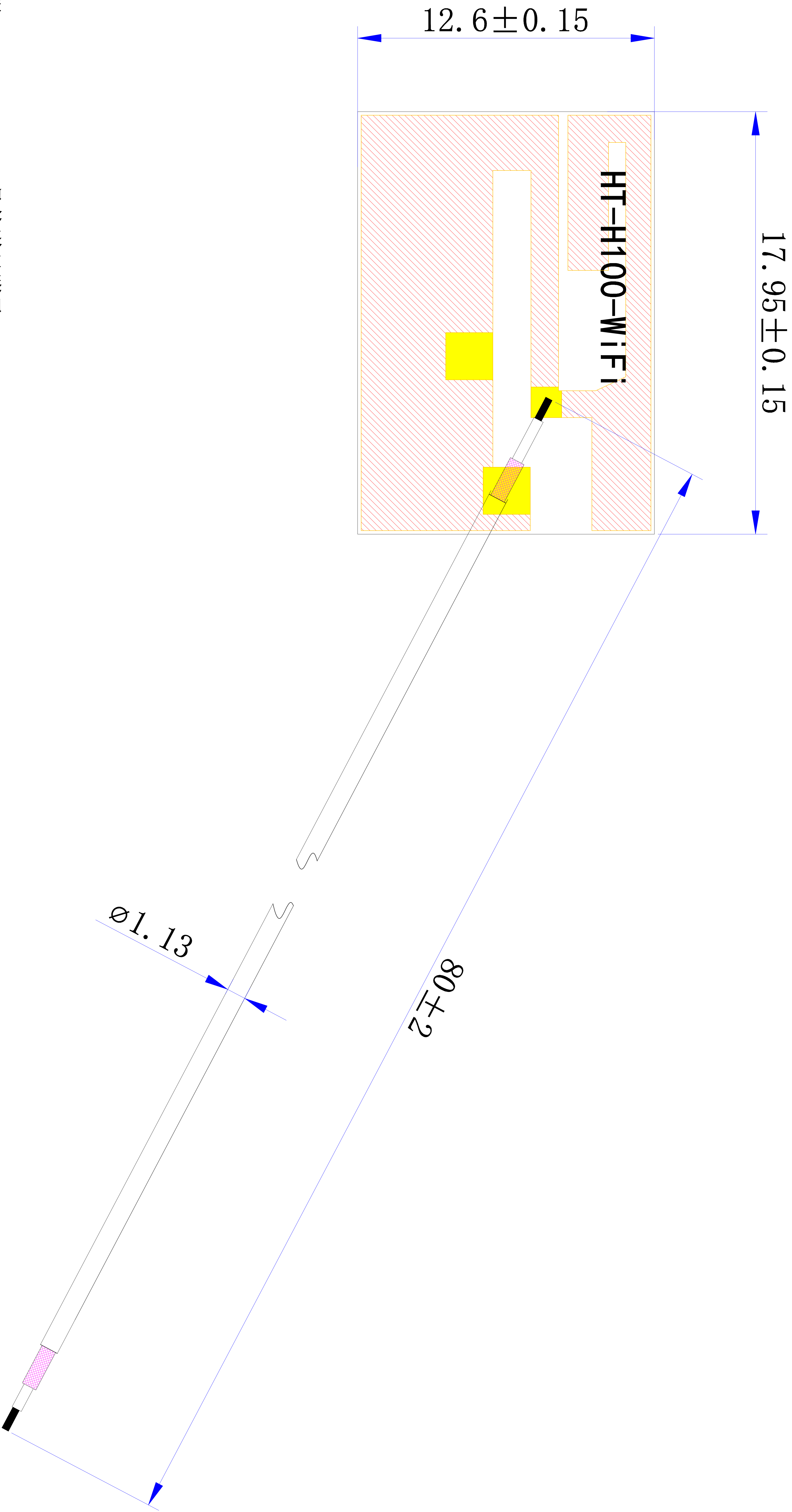
Thanks for your comment!

- ✧ 深圳市合拓科技有限公司
- ✧ Shenzhen Hetuo Technology Co., Ltd

- ✧ 1202B, Building C6, Hengfeng Industrial City, Xixiang, Bao'an District, Shenzhen



报价	
FOR QUOTATION	
开模	
FOR TOOLING	
检测	
FOR EVALUATION	
出图	
APPROVED DWG.	
参考	
REFERENCE	



技术要求

MODIFICATION		
VER	DESCRIPTION	ENGINEER

深圳合拓科技有限公司										DRAWN:	
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF ARIMA COMMUNICATION CORP. AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR DEVICES WITHOUT PERMISSION.										DESIGNED:	
										CHECKED:	
										APPROVED:	
PART NAME: HT-20220610001-H100										Customer Rev: H100-ANT-ASM	
DIMENSIONAL TOLERANCES:										THIRD ANGLE PROJECTION	
0-6										M1	
6-30										M2	
30-60										S1	
60-180										S2	
180-315										P1	
315-800										P2	
SCALE 1:1										C	
UNIT: MM										UNIT: ON	
SHEET 1 OF 1										DATE 2022.06.10	