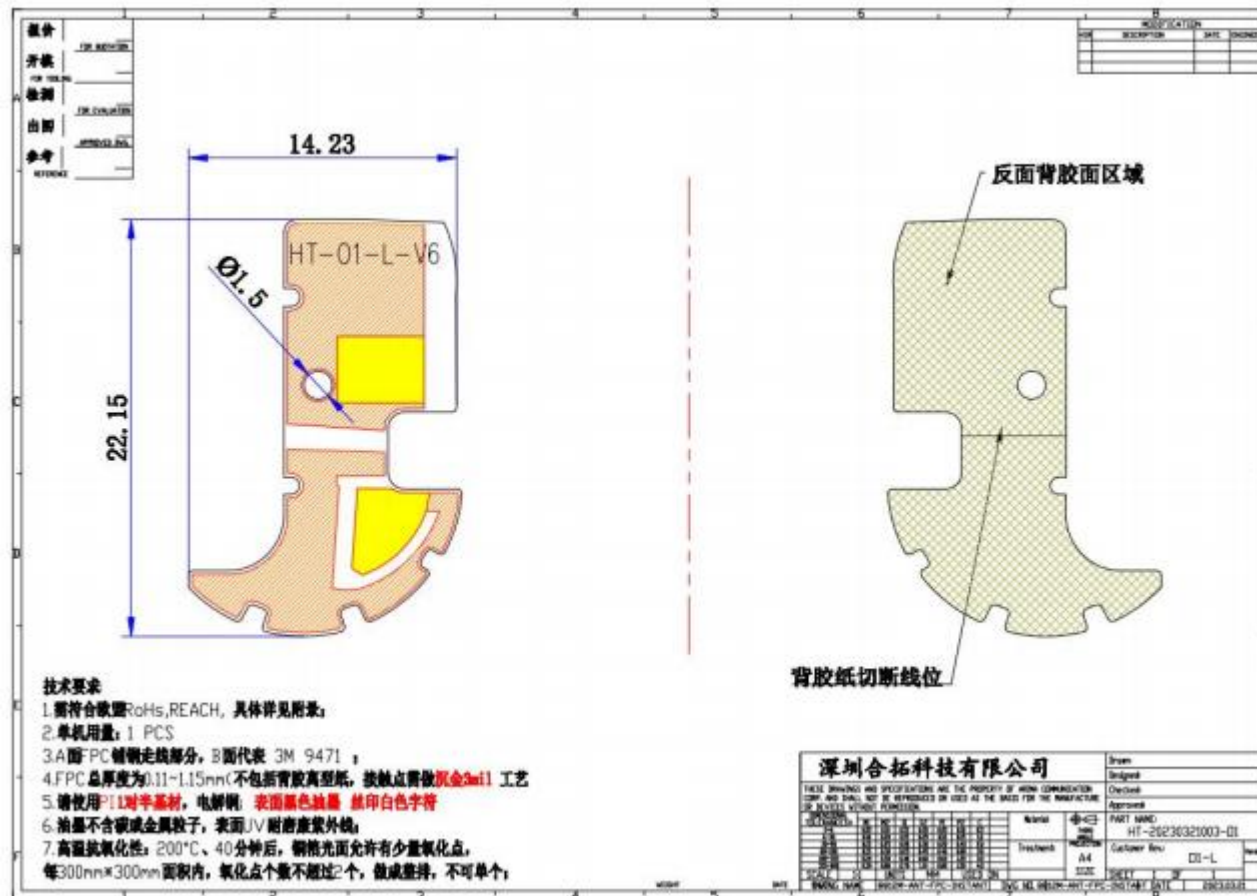


O1 Antenna Test Report

Customer	延辉众创
Project	01
Antenna Revision	A1
Product Description	FPC
Product No	
DATE	2023. 05. 25

Product Overview & Dimension

Front



Purpose

This report is to measure the performance of BT antenna for O1. The antenna operating frequency at 2.4~2.5GHz, All test data are showed as below.

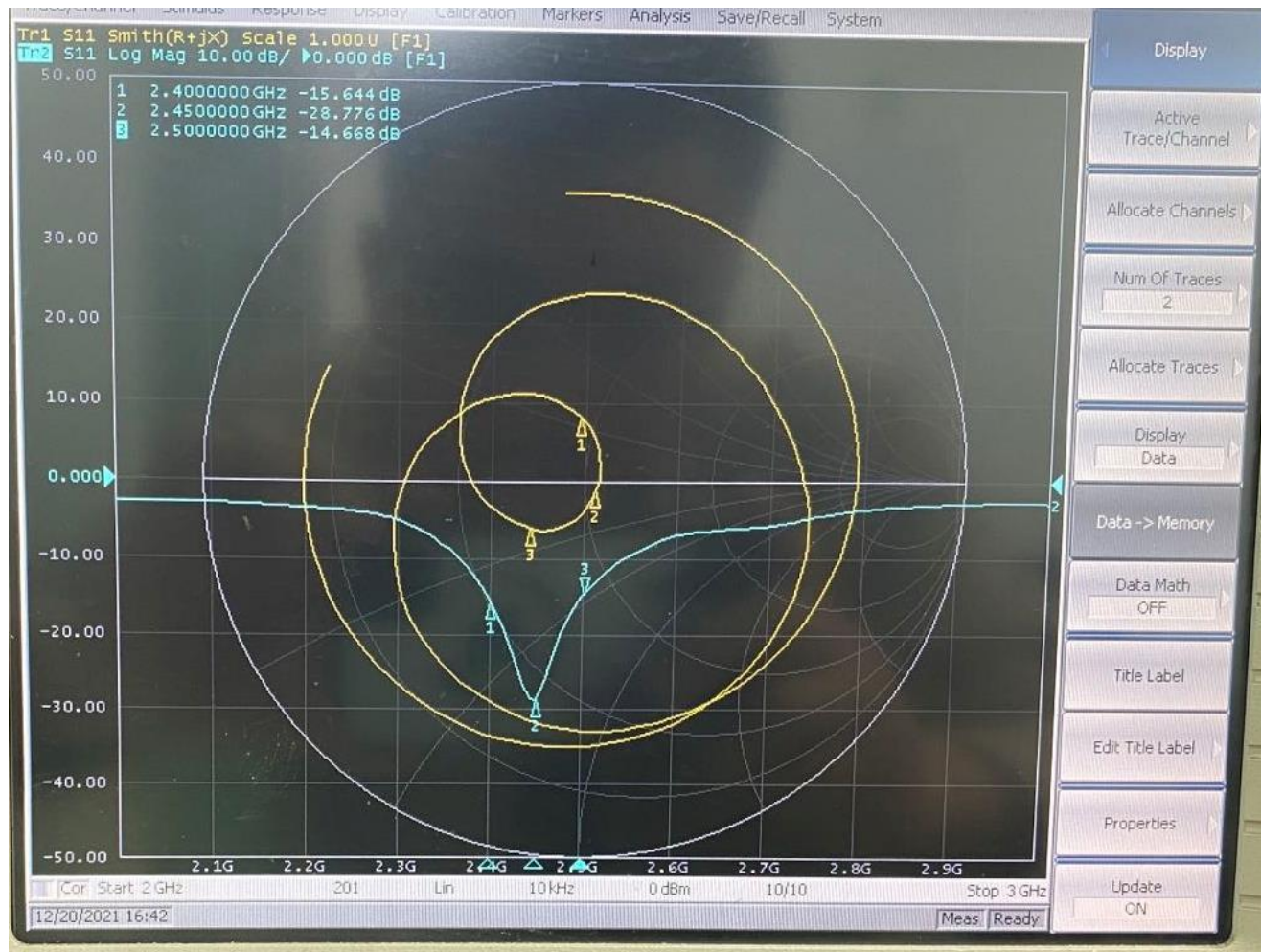
Content

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—(BT ANT)

(L)

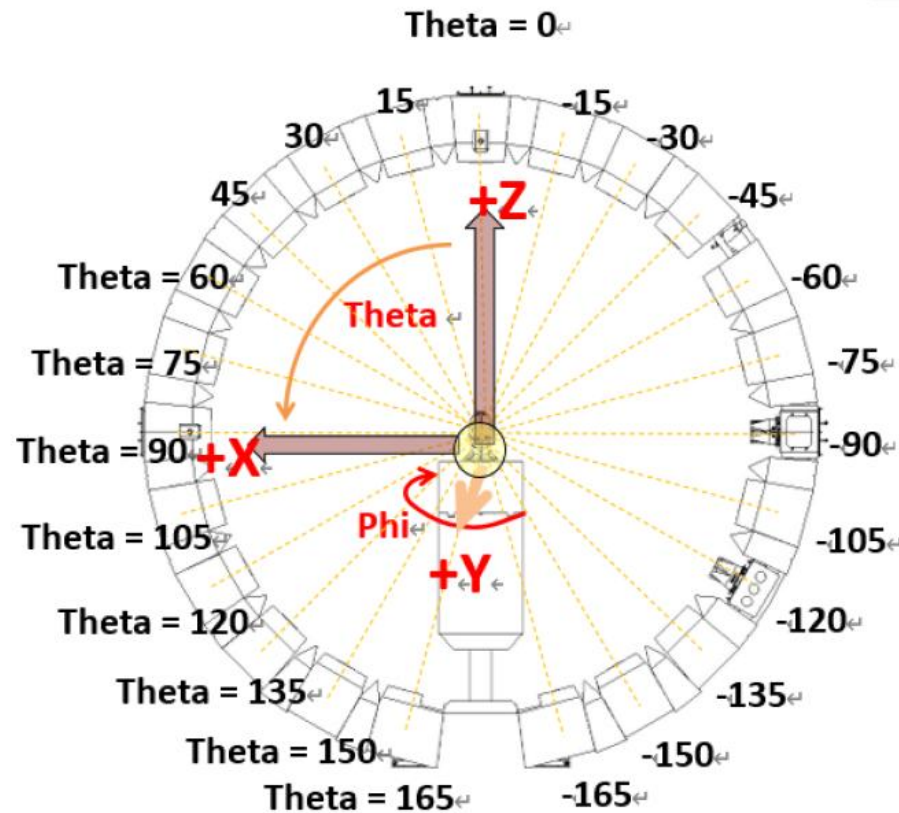
延辉 01

2022. 05. 25



Test Result

Sample status & coordinates



Test Result

Gain & Efficiency——**BT- ANT(L)**

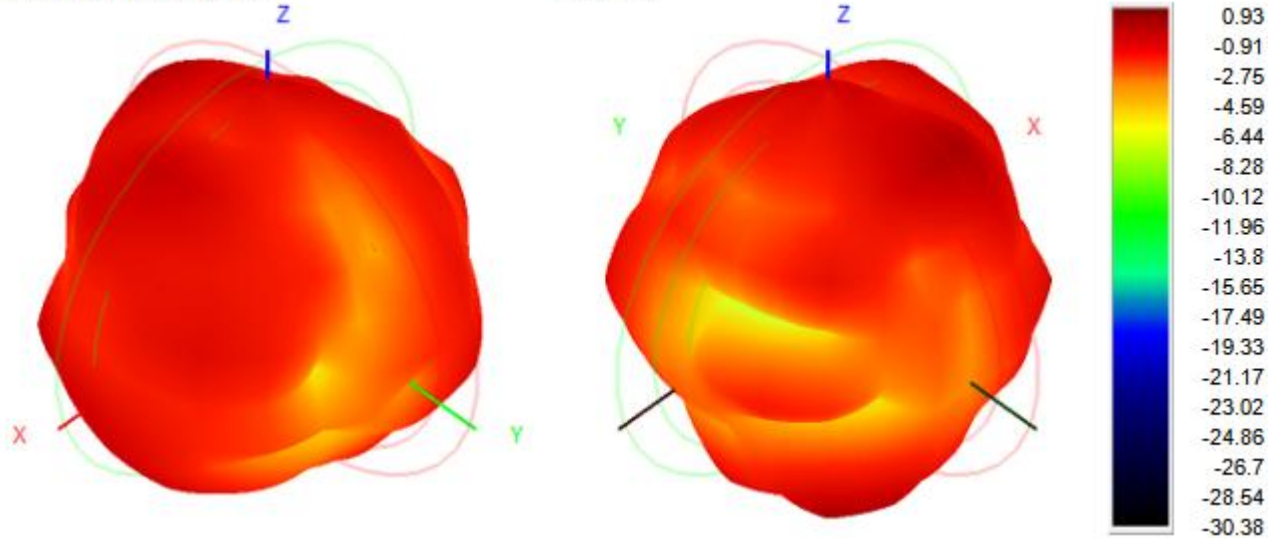
Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	35.67	0.93
2410	37.81	1.34
2420	37.82	1.50
2430	38.69	1.75
2440	39.11	1.49
2450	38.22	1.61
2460	37.65	1.85
2470	37.21	1.58
2480	36.65	1.44
2490	36.88	1.21
2500	35.53	0.96

Test Result

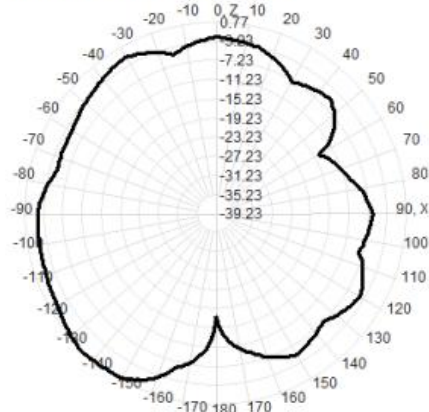
2D&3D — BT- ANT

2400.0MHz H+V, Eff: 35.7%

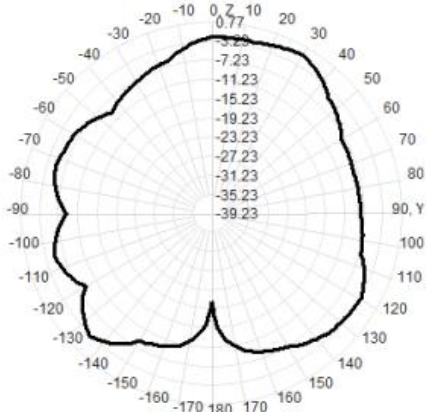
Back View



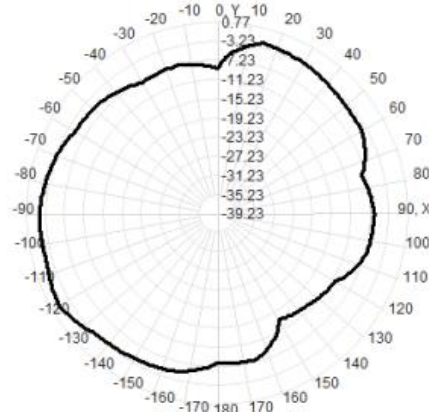
2400.0MHz Total(E1-XZ), Max= 0.77dBi



2400.0MHz Total(E2-YZ), Max= -1.03dBi



Total(H-XY), Max= -1.06dBi, CirD=12.74

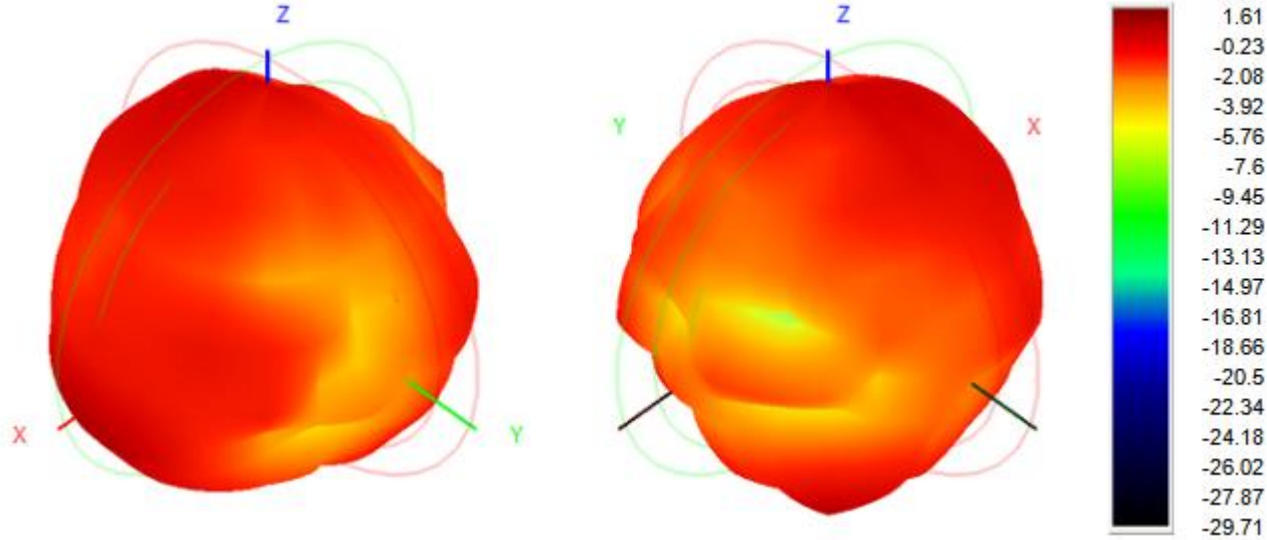


Test Result

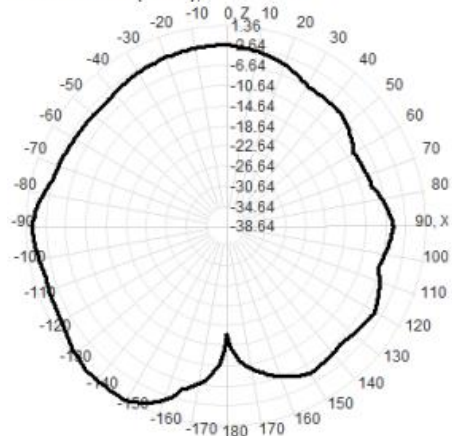
2D&3D — BT- ANT

2450.0MHz H+V, Eff: 38.2%

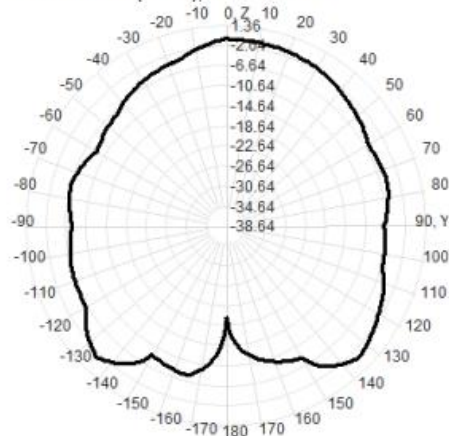
Back View



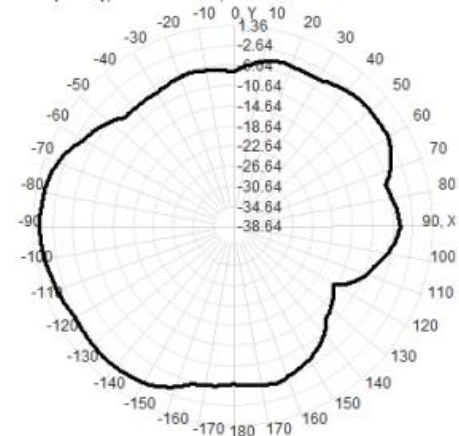
2450.0MHz Total(E1-XZ), Max= 1.36dBi



2450.0MHz Total(E2-YZ), Max= -1.35dBi



Total(H-XY), Max= 0.13dBi, CirD=15.70

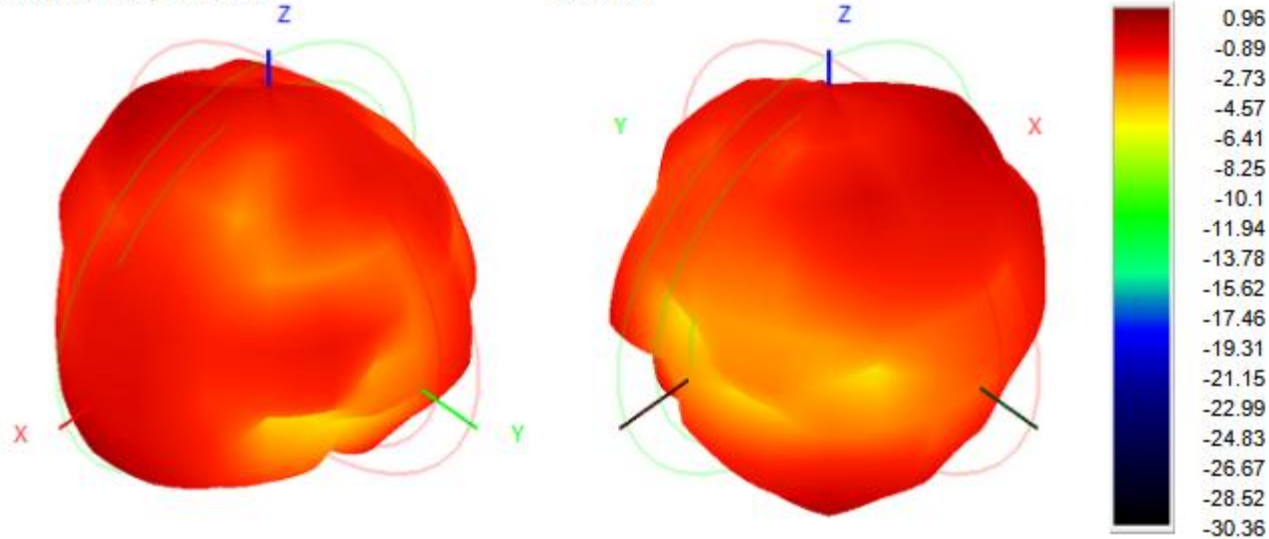


Test Result

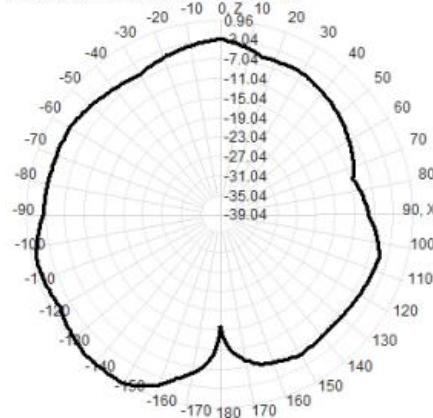
2D&3D — BT- ANT

2500.0MHz H+V, Eff: 35.5%

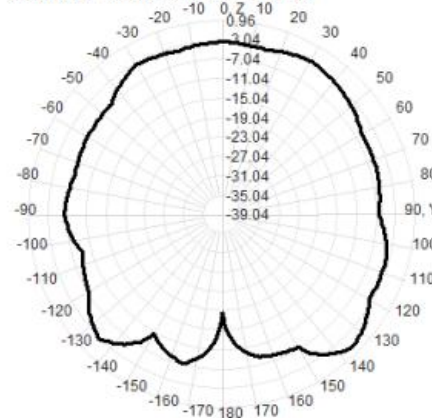
Back View



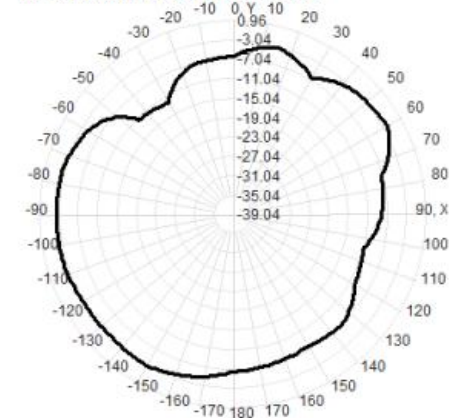
2500.0MHz Total(E1-XZ), Max= 0.96dBi



2500.0MHz Total(E2-YZ), Max= -0.68dBi



Total(H-XY), Max= -2.43dBi, CirD=10.03



Thanks for your comment!

- ✧ Shenzhen Hetuo Technology Co., LTD
- ✧ **Shenzhen: Room 1202B, Building C6,
Hengfeng Industrial City, Xixiang, Bao 'an
District, Shenzhen**
- ✧ **RF: Hu Xuewen**