

1270B Antenna Test Report

Customer	瑞禾 RuiHe
Project	1270B
Antenna Revision	A1
Product Description	FPC
Product No	
DATE	2022. 09. 27

Purpose

This report is to measure the performance of BT antenna for 1270B. The antenna operating frequency at 2.4~2.5GHz, All test data are showed as below.

Content

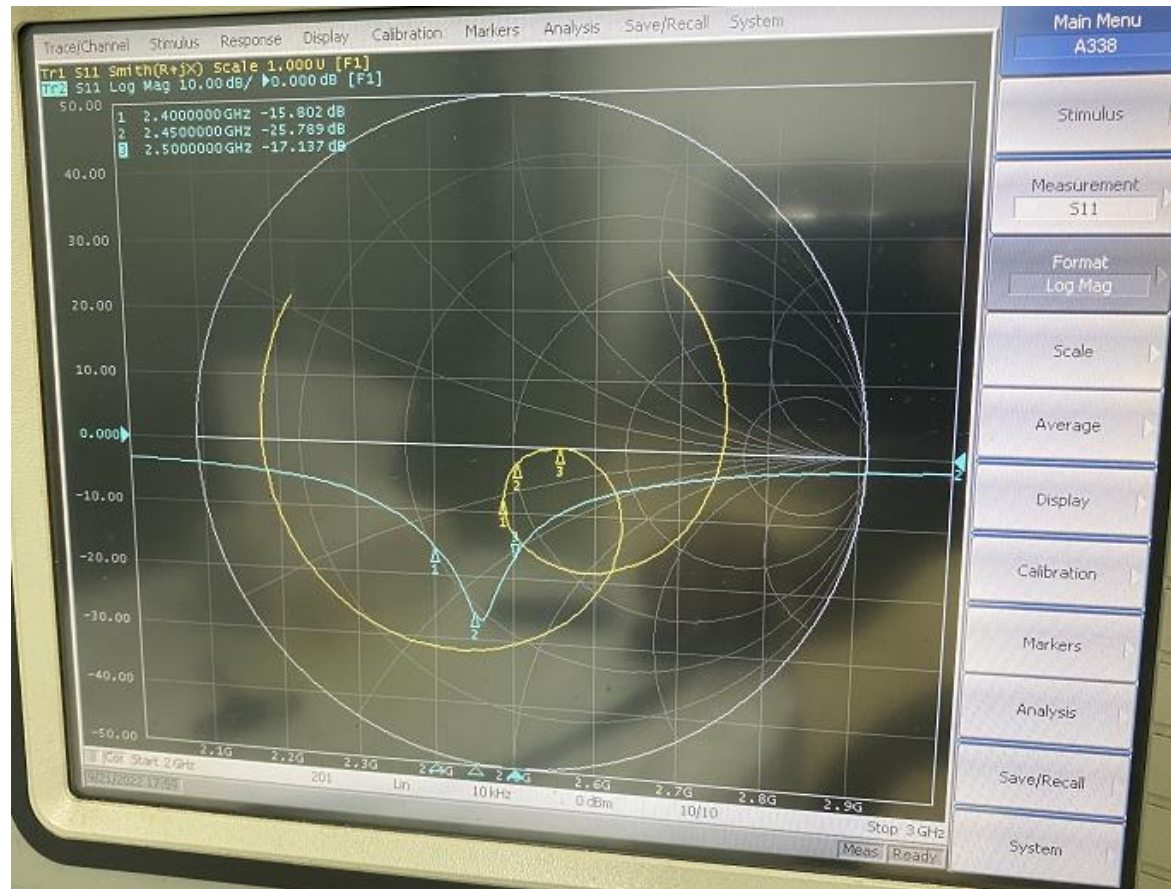
1. Product Overview & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
 - 4.1 S11 Parameter
 - 4.2 Test coordinate
 - 4.3 2D Pattern
 - 4.4 OTA Data
 - 4.5 BT Boot measured
5. Antenna Assembly & environmental processing

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)



[illegible]

Test Result

Gain & Efficiency—**BT- ANT(L/R)**

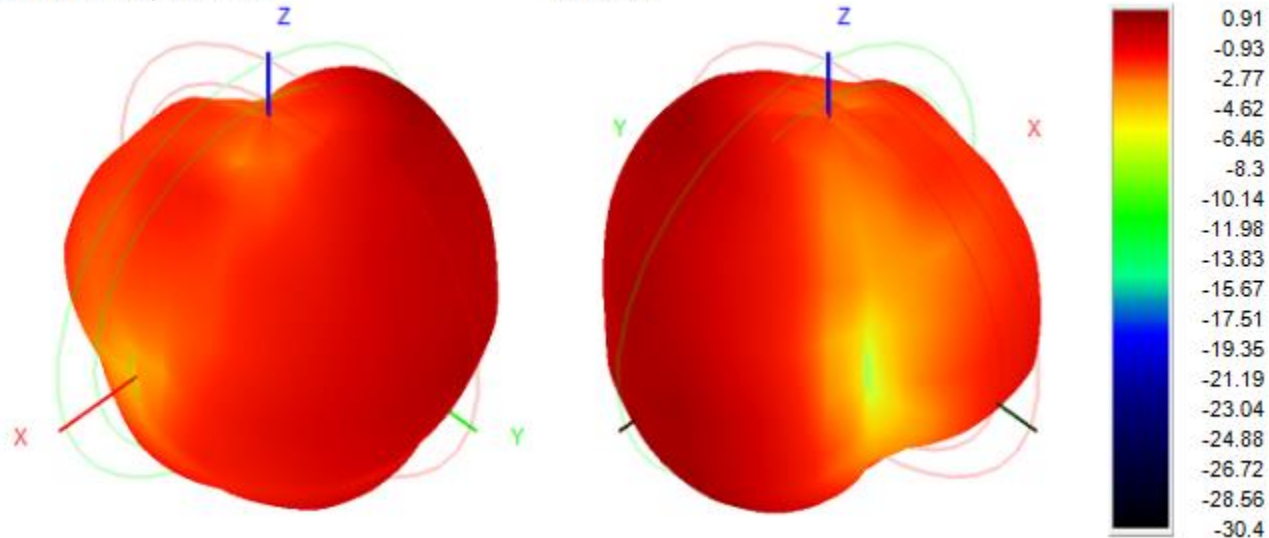
Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	33.71	0.91
2410	35.35	1.04
2420	34.08	1.10
2430	35.45	1.02
2440	36.22	1.13
2450	37.24	1.56
2460	36.60	1.69
2470	36.28	1.13
2480	35.46	1.14
2490	34.26	1.14
2500	33.44	1.80

Test Result

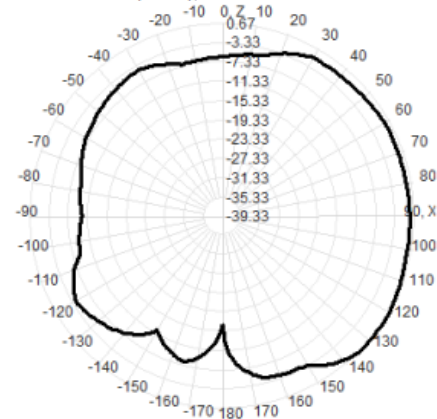
2D&3D — BT- ANT

2400.0MHz H+V, Eff: 33.7%

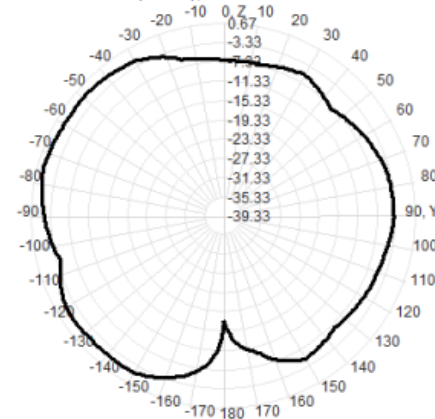
Back View



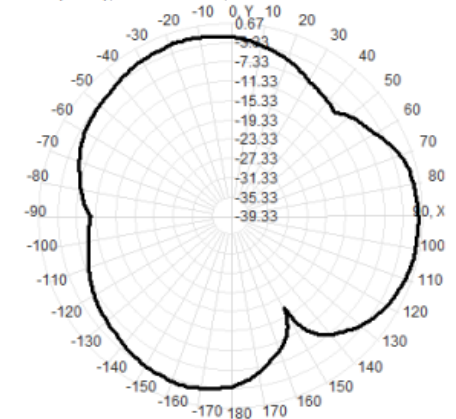
2400.0MHz Total(E1-XZ), Max= 0.67dBi



2400.0MHz Total(E2-YZ), Max= -0.57dBi



Total(H-XY), Max= -0.49dBi, CirD=16.96

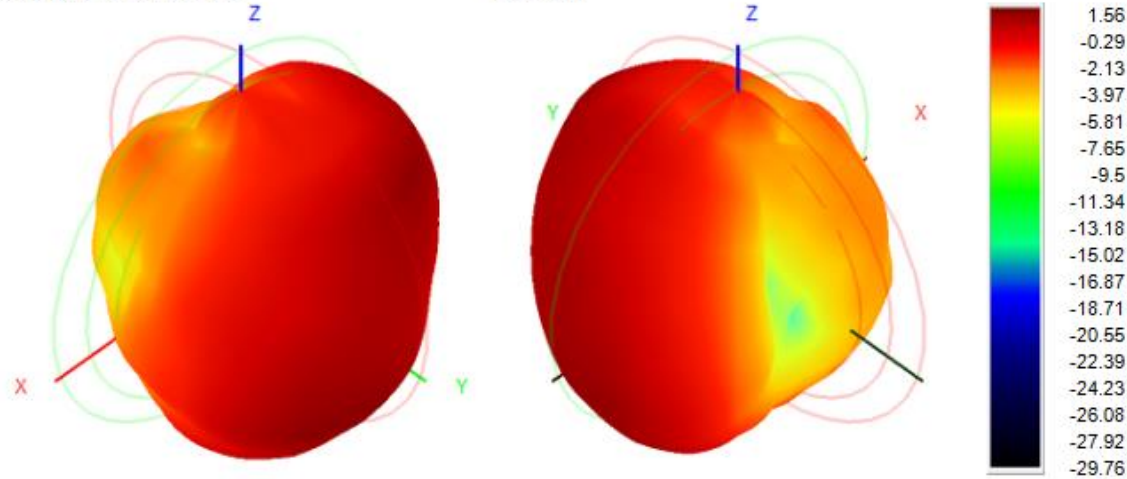


Test Result

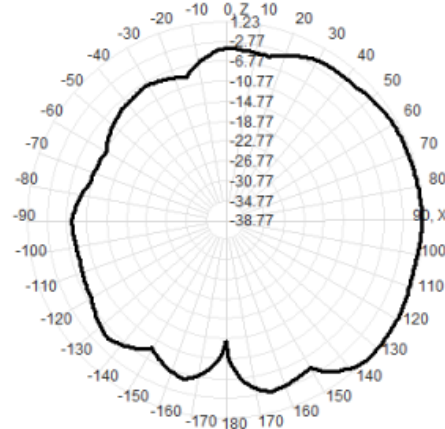
2D&3D — BT- ANT

2450.0MHz H+V, Eff: 37.2%

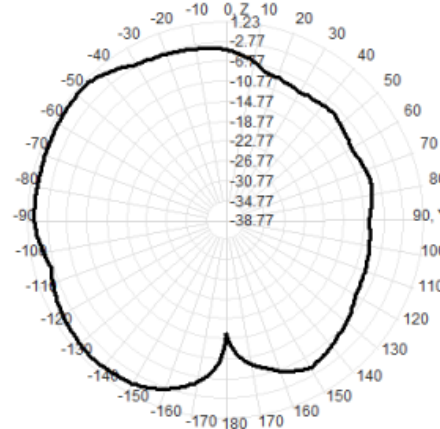
Back View



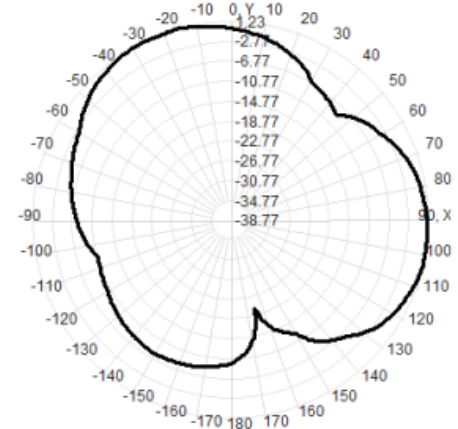
2450.0MHz Total(E1-XZ), Max= 1.23dBi



2450.0MHz Total(E2-YZ), Max= 0.36dBi



Total(H-XY), Max= 1.17dBi, CirD=21.70

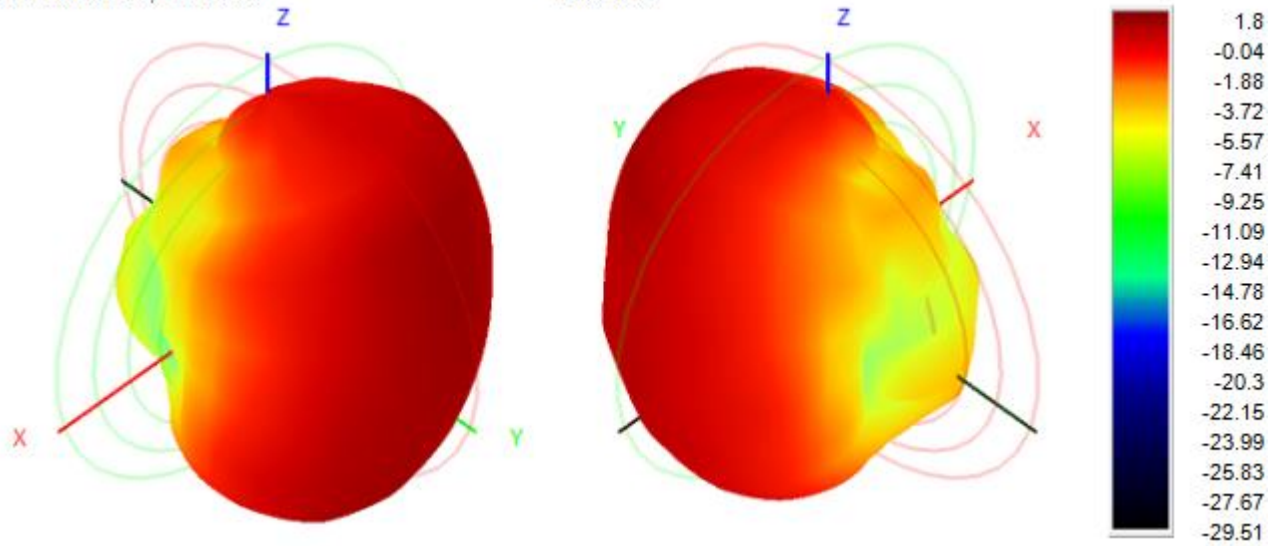


Test Result

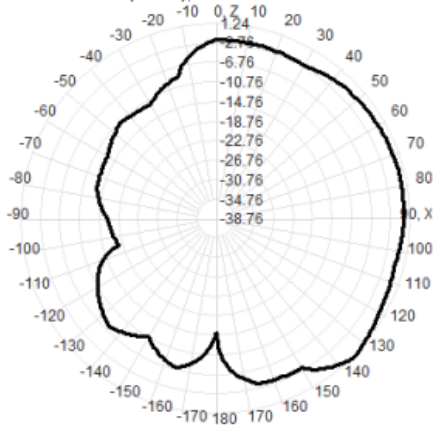
2D&3D — BT- ANT

2500.0MHz H+V, Eff: 33.4%

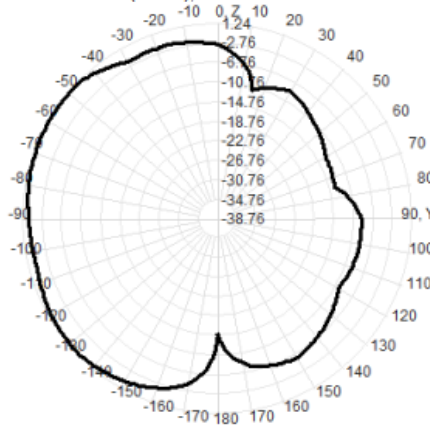
Back View



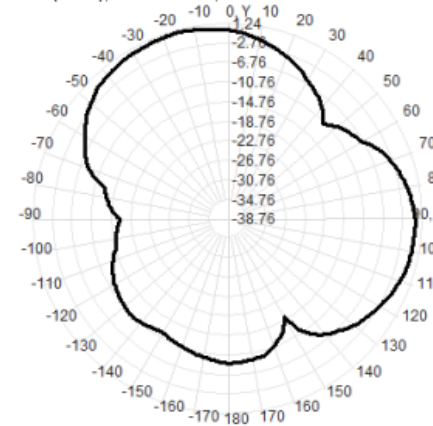
2500.0MHz Total(E1-XZ), Max= 1.24dBi

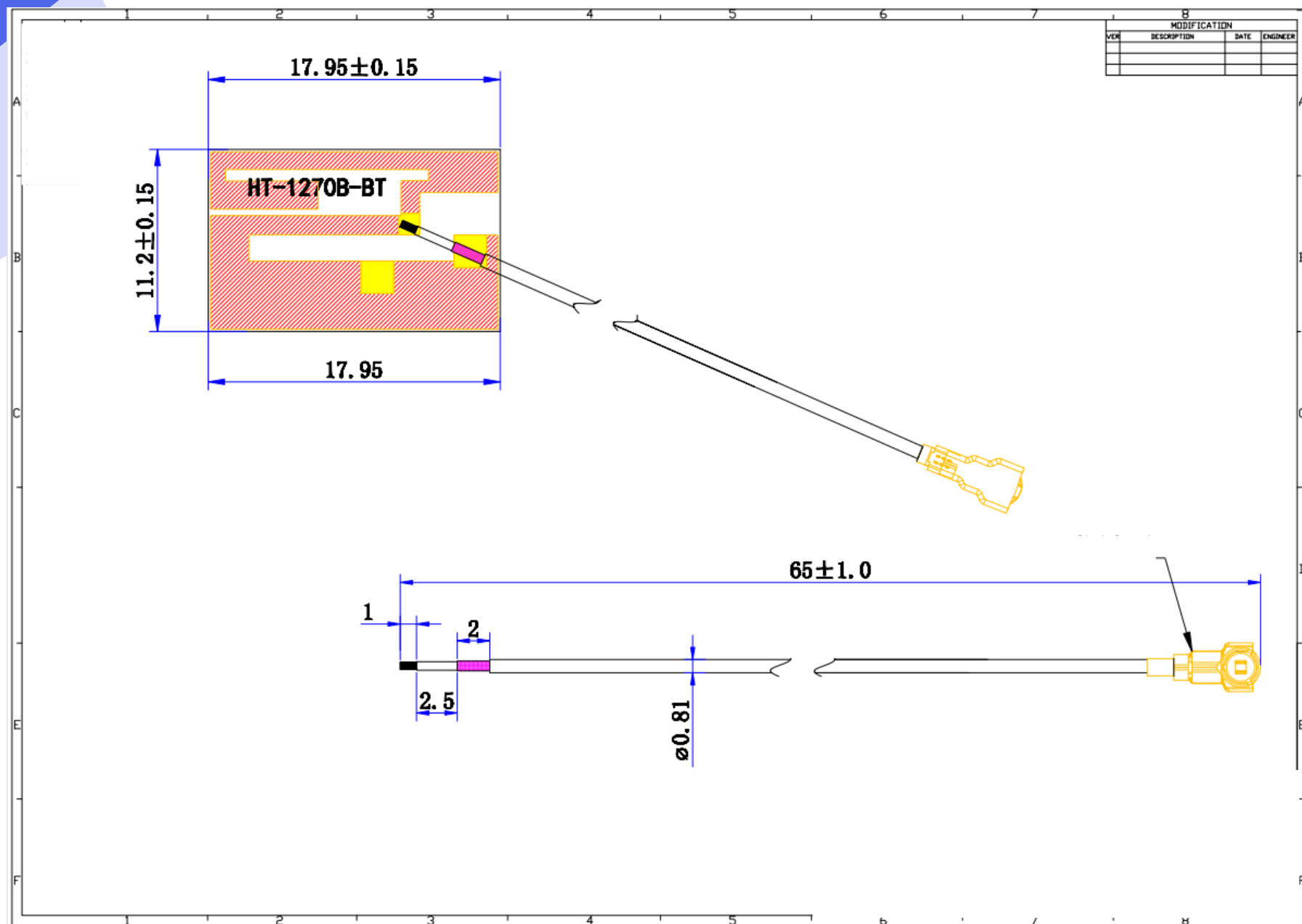


2500.0MHz Total(E2-YZ), Max= 1.12dBi



Total(H-XY), Max= 0.68dBi, CirD=17.27





Thanks for your comment!

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- ◆ RF: Hu Xuewen