

Sinline **Antenna Test Report**

Customer	Sinline
Project	C8
Antenna Revision	V1.0
Product Description	onboard
Product No	V1.1
DATE	2024.4.2

Purpose

This report is to measure the performance of BT antenna for 263. The antenna operating frequency at 2.4~2.5GHz, All test data are showed as below.

Content

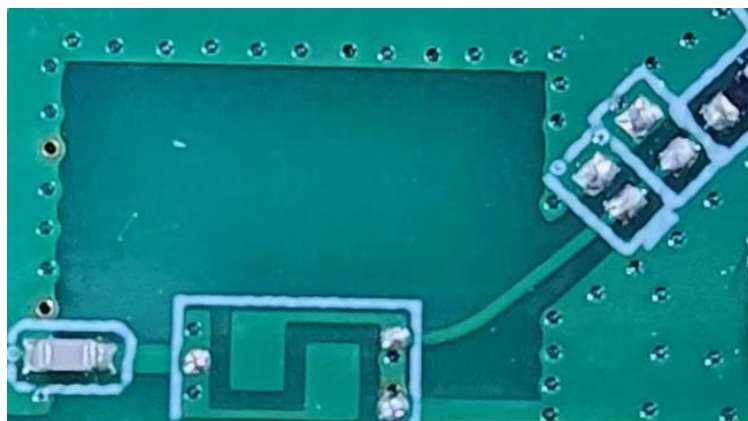
1. Product Overview & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
 - 4.1 S11 Parameter
 - 4.2 Test coordinate
 - 4.3 2D Pattern
 - 4.4 OTA Data
 - 4.5 BT Boot measured
5. Antenna Assembly & environmental processing

2. Test System

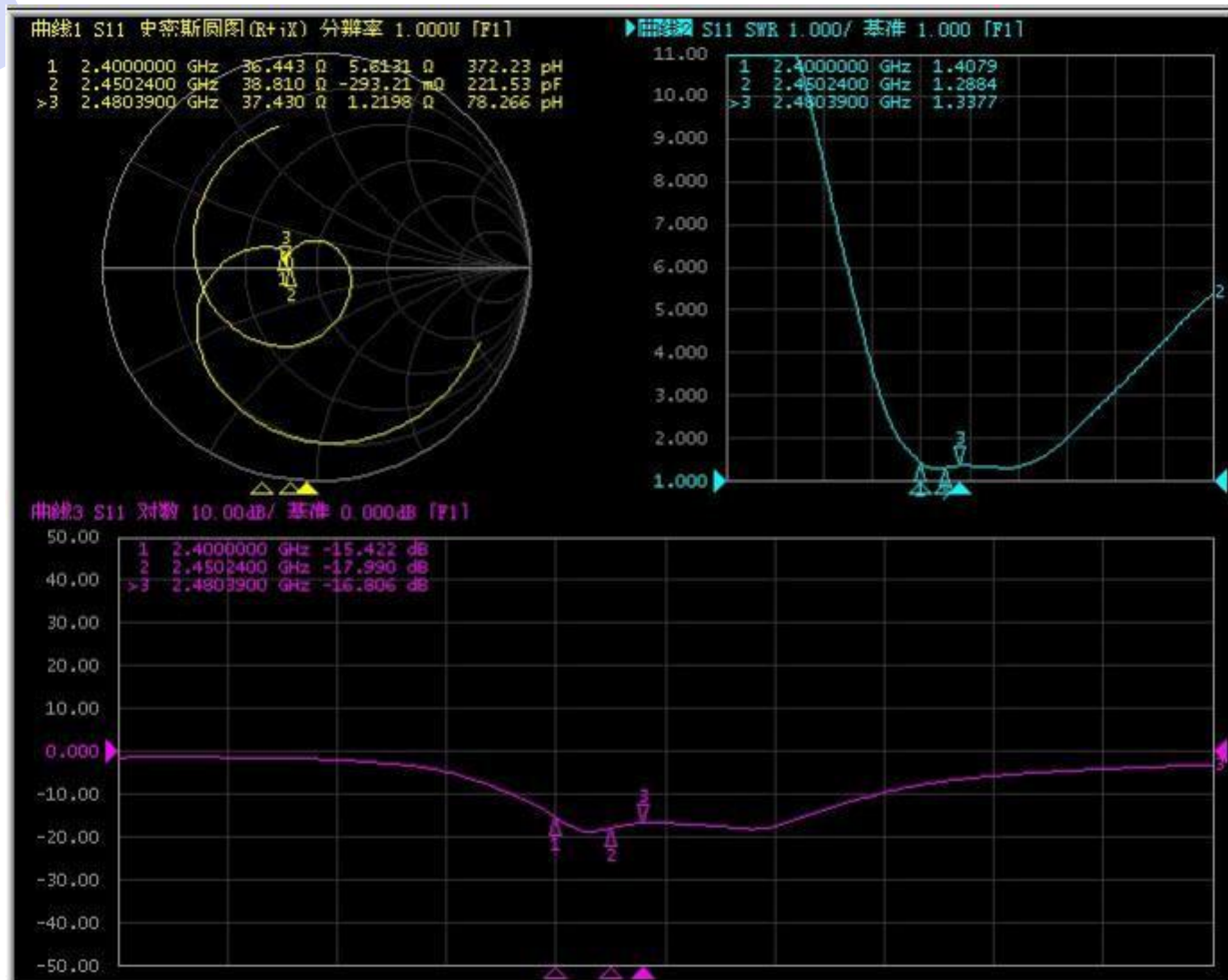
Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	CMW500 & CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C



(L-R)



无源S11—(BTANT)-



Test Result

Gain & Efficiency——BT- ANT

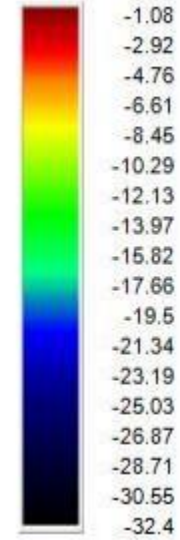
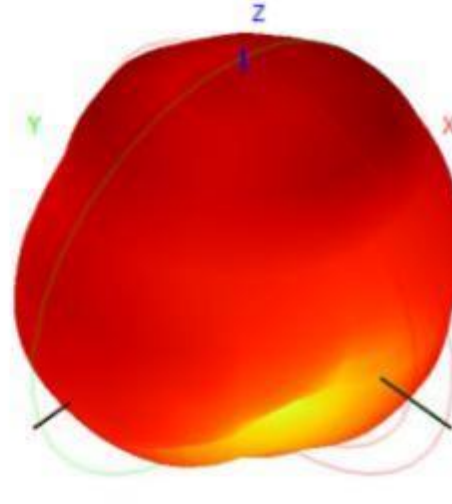
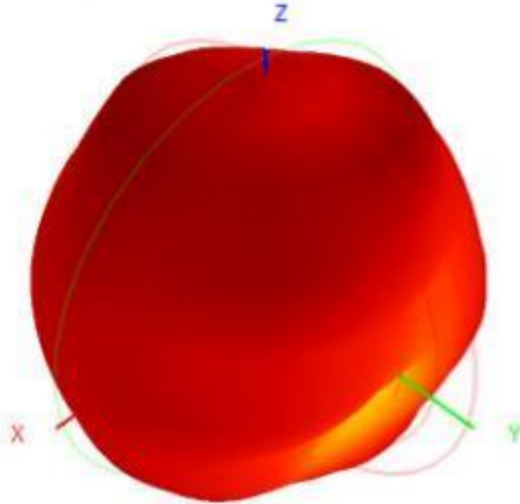
Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	31.87	1.08
2410	34.61	0.88
2420	37.32	0.59
2430	41.67	0.38
2440	43.92	0.47
2450	45.37	1.26
2460	45.91	1.92
2470	44.45	1.11
2480	41.49	1.34
2490	39.18	1.78
2500	36.41	1.38

Test Result

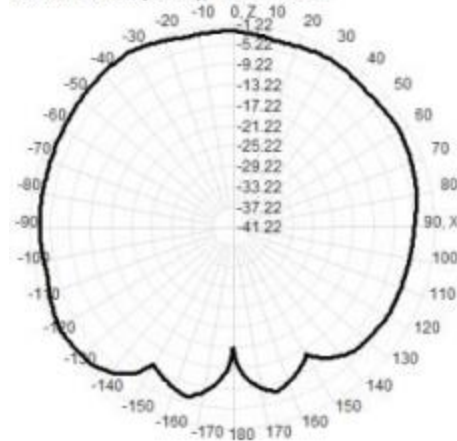
2D&3D — BT- ANT

2400.0MHz H+V, Eff: 31.9%

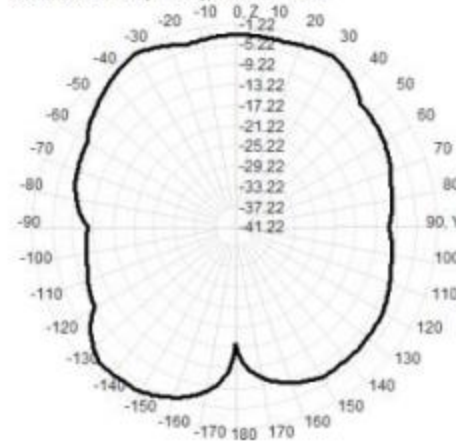
Back View



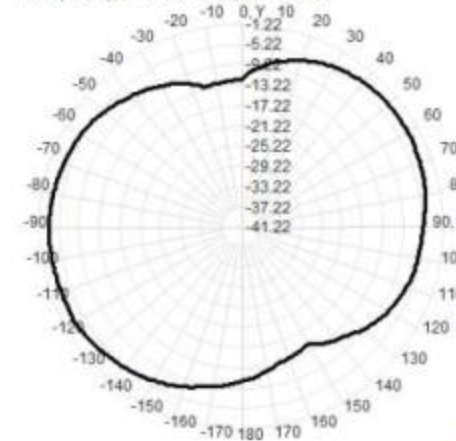
2400.0MHz Total(E1-XZ), Max=-1.22dBi

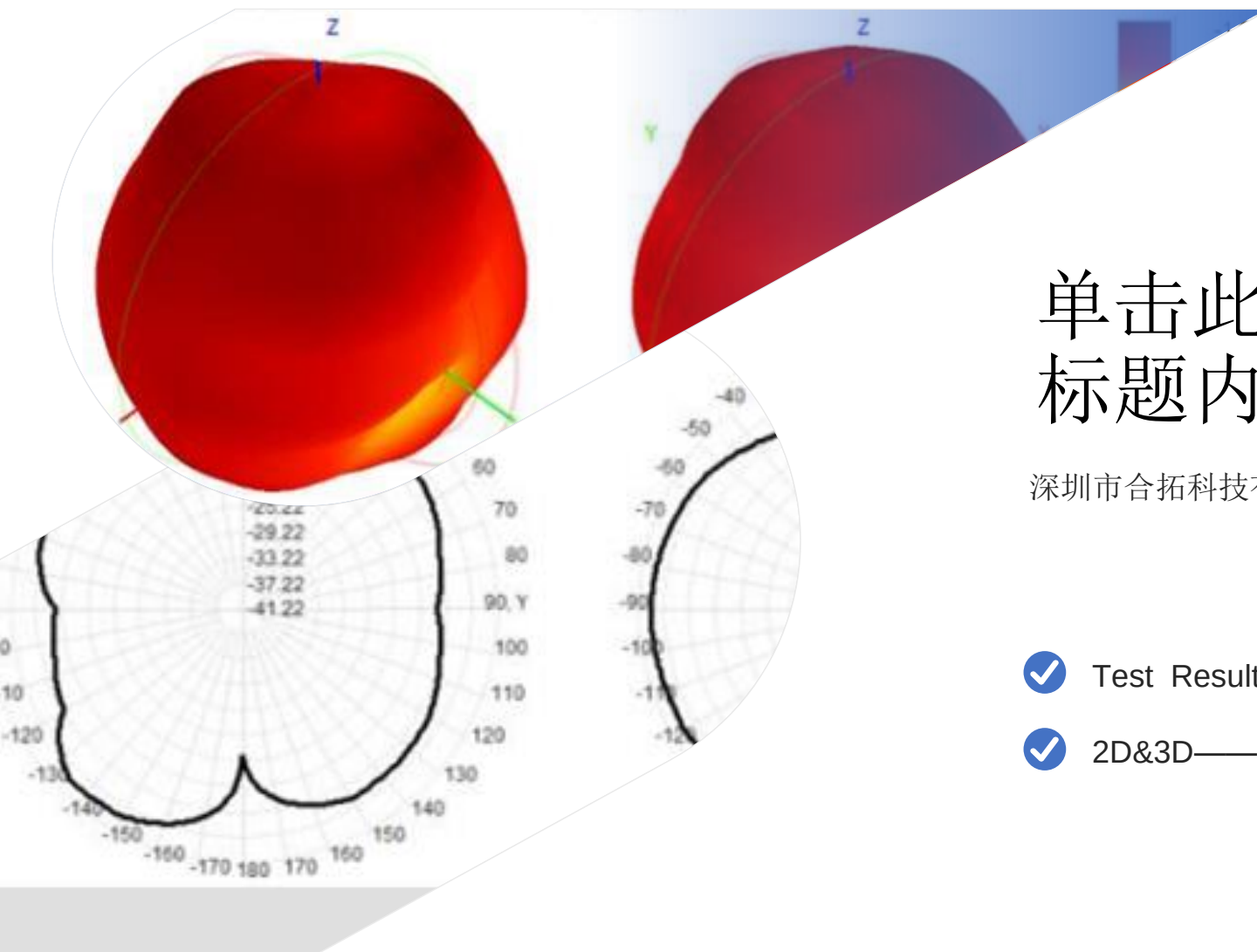


2400.0MHz Total(E2-YZ), Max=-1.83dBi



Total(H-XY), Max=-3.21dBi, CirD=11.52





单击此处添加
标题内容

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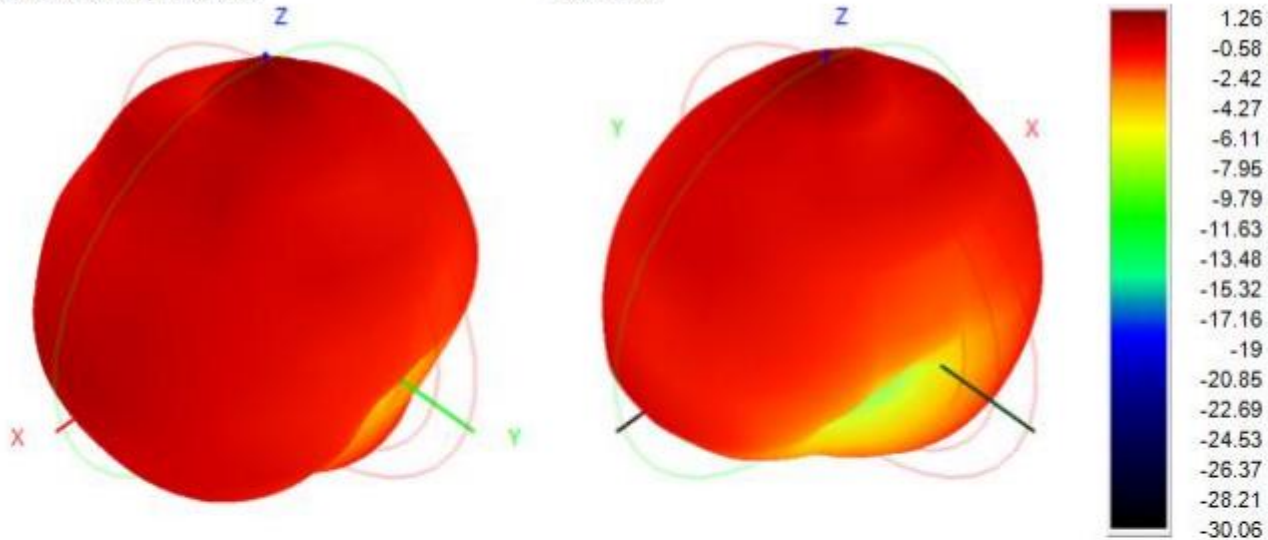
- ✓ Test Result
- ✓ 2D&3D——BT- ANT

Test Result

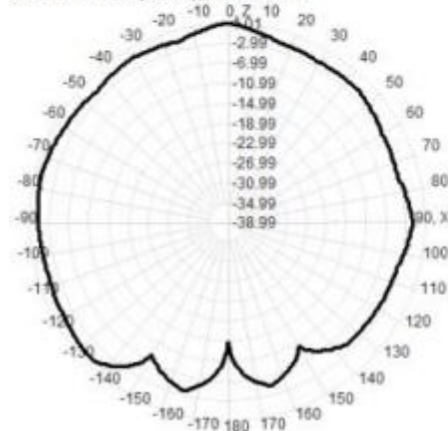
2D&3D — BT- ANT

2450.0MHz H+V, Eff: 45.4%

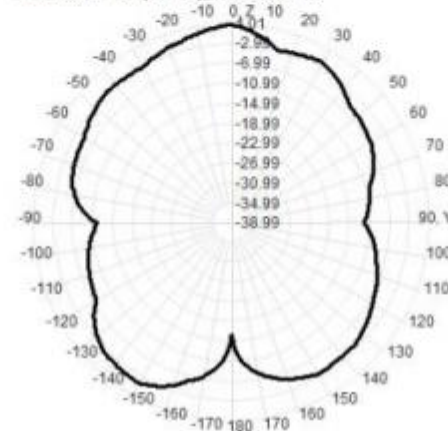
Back View



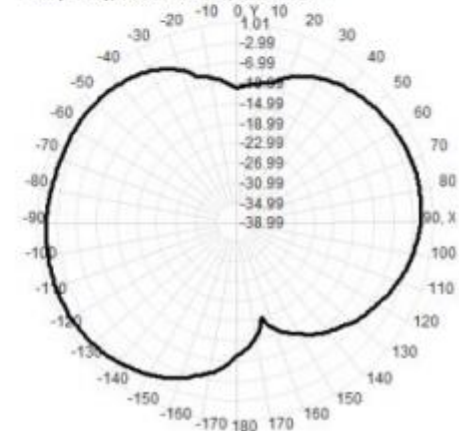
2450.0MHz Total(E1-XZ), Max= 1.01dBi

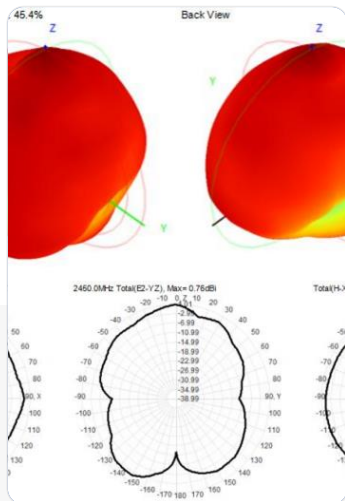


2450.0MHz Total(E2-YZ), Max= 0.76dBi



Total(H-XY), Max= -0.65dBi, CirD=18.83





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Test Result



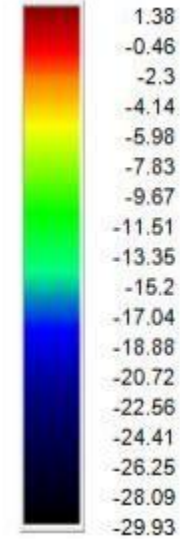
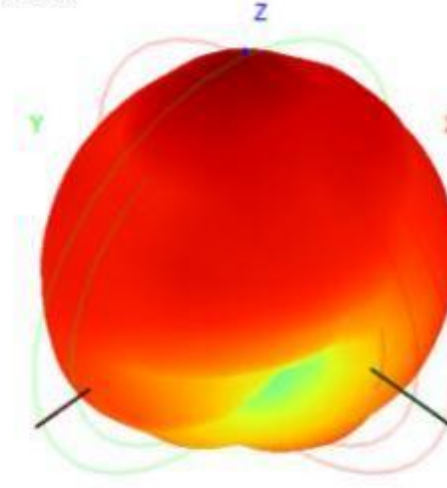
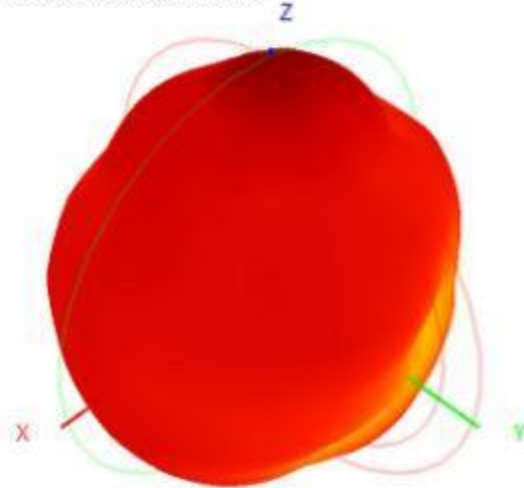
2D&3D——BT- ANT

Test Result

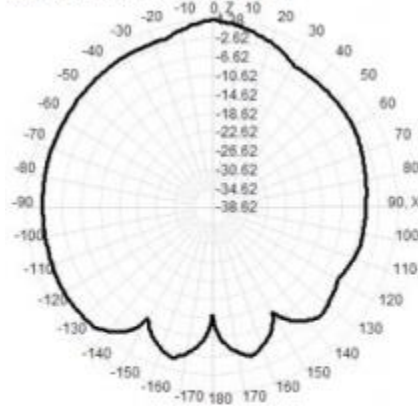
2D&3D — BT- ANT

2500.0MHz H+V, Eff: 36.4%

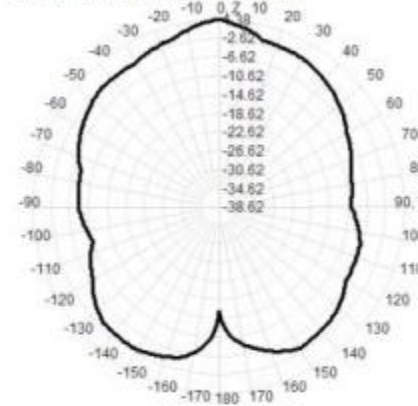
Back View



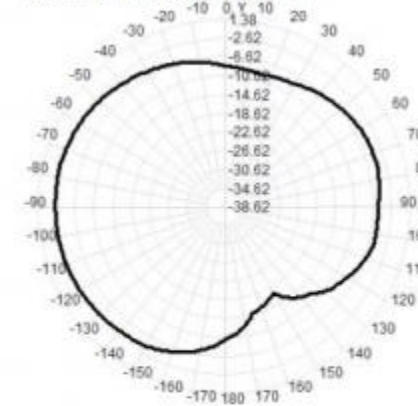
2500.0MHz Total(E1-XZ), Max= 1.31dBi



2500.0MHz Total(E2-YZ), Max= 1.38dBi



Total(H-XY), Max= -2.24dBi, CirD=15.13



Thanks for your comment!

✧ **Shenzhen Hetuo Technology Co., LTD**

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