

TDE台德 部品承认书

PART FOR APPROVAL

File No: JX-RD-04-036

Ver: 1.0

No:

原厂名称（品牌名称）Vendor Name: Shenzhen HamyWe Technology Co., Ltd.

原厂型号 Vendor Part P/N: X2938-WBT1032B-ANT4

原厂规格描述 Part Description: FPC L=225MM

供应商确认签章Supplier: Shenzhen HamyWe Technology Co., Ltd.

台德适用机型 Model: WBT1032B

台德 ERP 料号 Part No:E110002922

台德部品名称 Part Name: FPC Antenna

台德规格描述 Part Description:

X2938-WBT1032B-ANT4 , FPC (X2115-WBT1032-ANT4-V1.0)

L=225MM, ROHS2.0+REACH

备注 Remarks:_____

RD/研发中心	QA/品质中心	APPROVED/批准



天线承认书

Parts Approval Sheet

Customer	台德	Project	WBT1032B
Band	ANT4	Color	BLACK
PN	X2938	Version	V1
Customer material number	THE CORD LENGTH WAS UPDATED FROM 180MM TO 255MM		

DATE: 2024/08/02

R&D			QC
Issued by	Checked by	Confirmed by	Checked by
伍海沅	项念	项念	蔡枝
Customer Confirm			

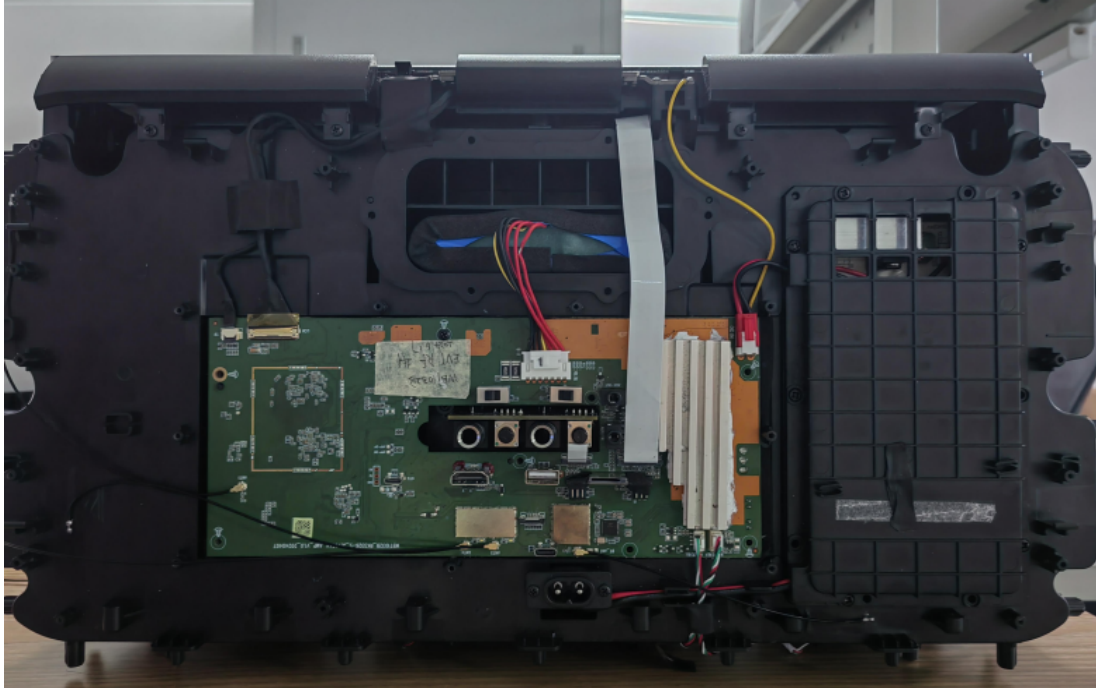
Environmental requirements: ☒ ROHS ☐ REACH ☐ 无

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1.Summary

This report summarizes the electrical results of the our antenna to support the project WBT1032B. The test fixture is made for further testing, which is show below:



2.General Description

2.1Antenna Components/Part revisions

The antenna part number is T: A

2.2Definitions

VSWR: Voltage Standing Wave Rate

TRP: total radiated power

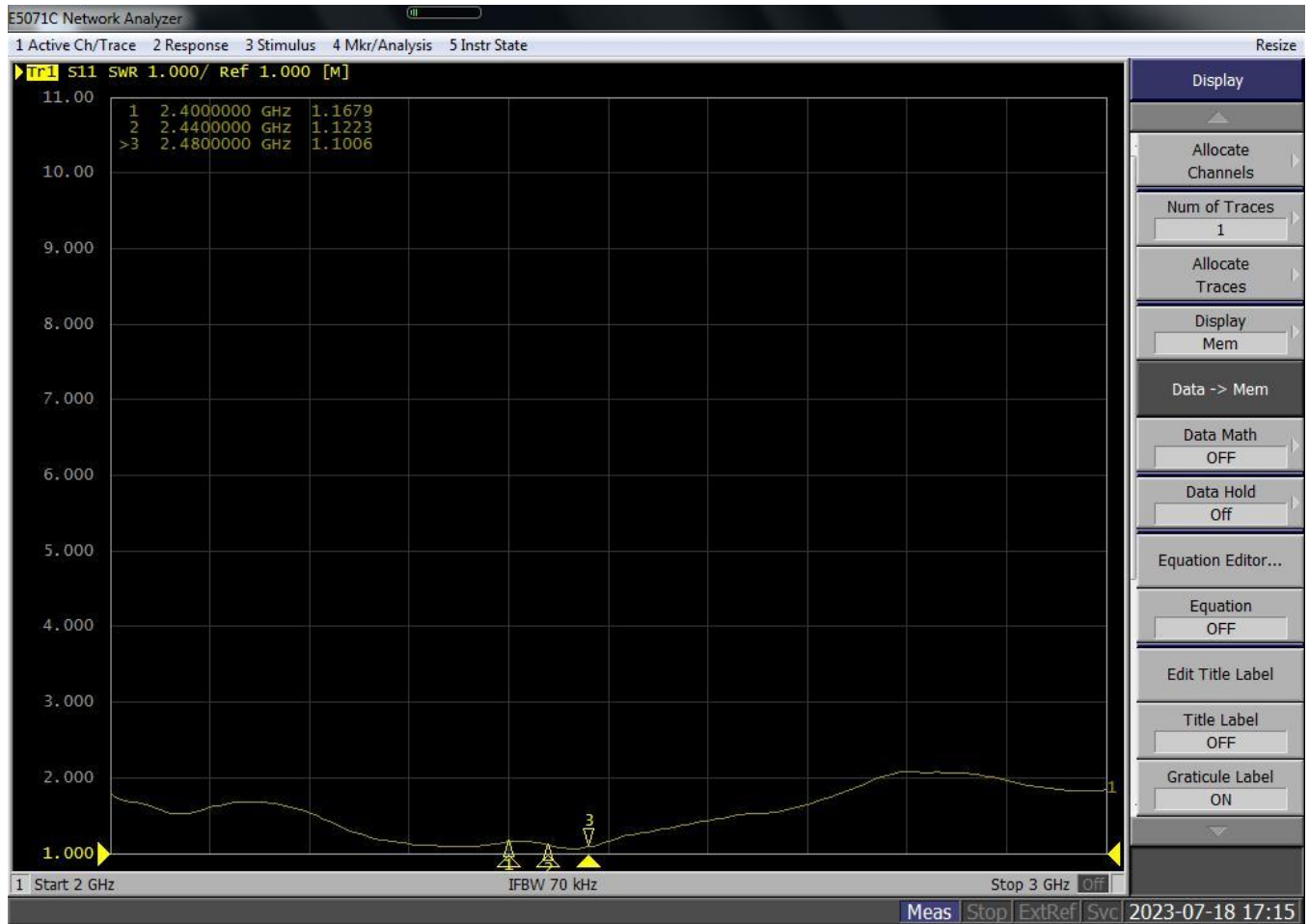
TIS: total isotropic sensitivity

3. Electrical Performance

3.1 Matching Circuit Description



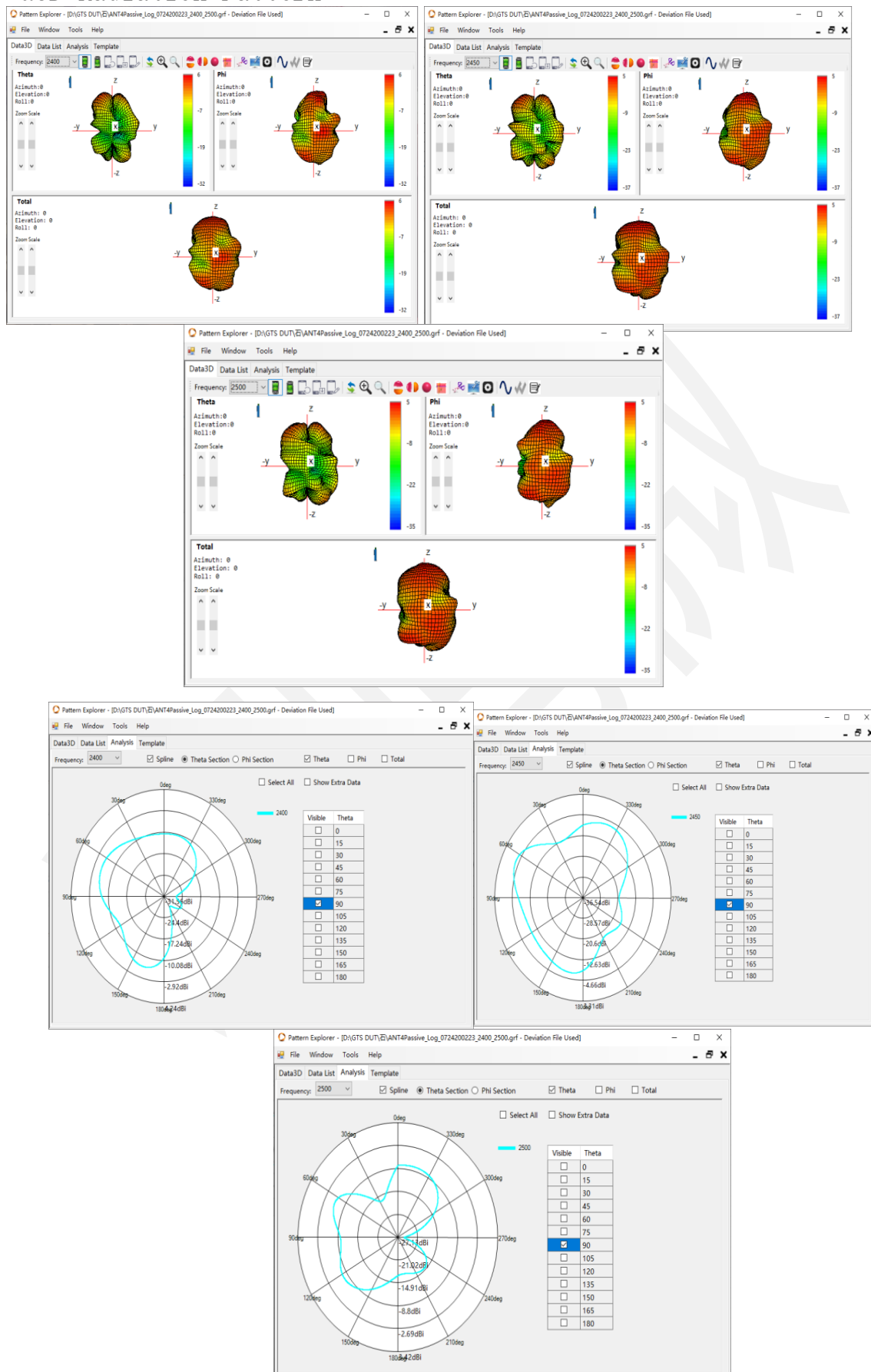
3.2 VSWR(Test in free space)



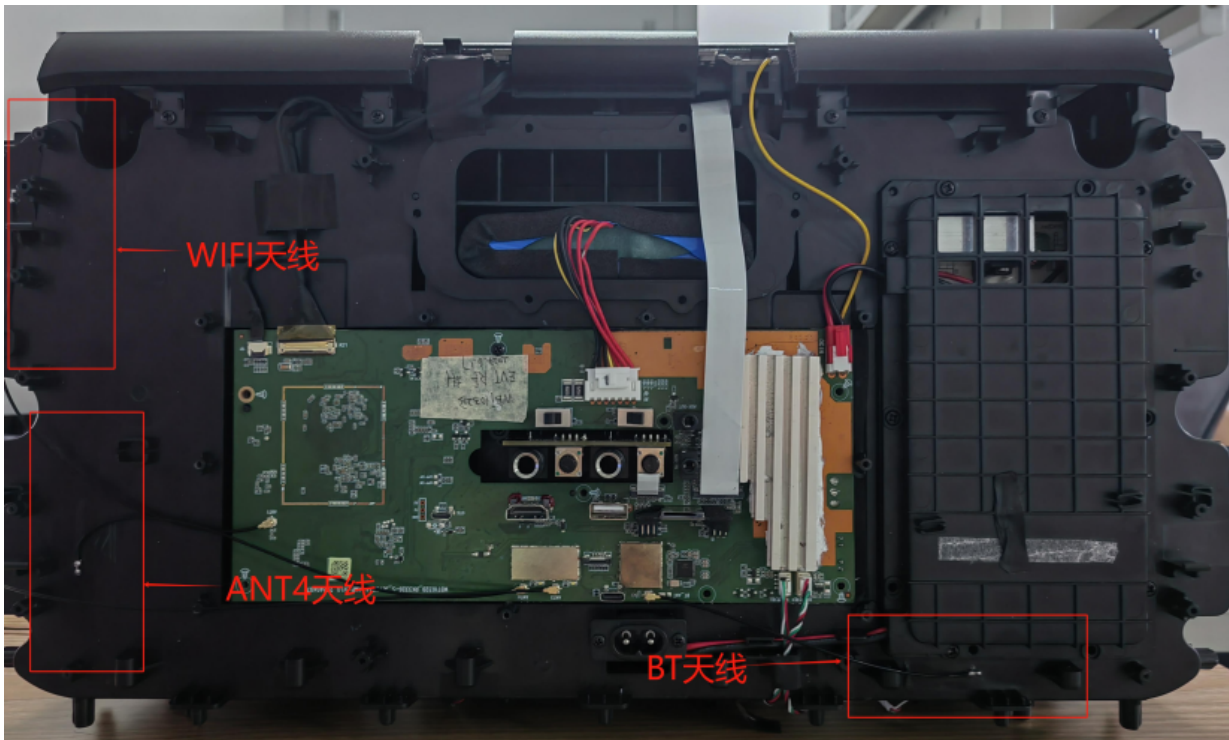
3.3 Gain&Efficiency

ANT4			
Freq (MHZ)	efficiency_db	Gain	efficiency (%)
2400	-1.41	5.54	72.3
2410	-1.48	4.87	71.17
2420	-1.53	5.32	70.28
2430	-1.66	4.52	68.27
2440	-1.65	4.57	68.37
2450	-1.64	4.86	68.59
2460	-1.59	4.71	69.36
2470	-1.55	4.91	69.97
2480	-1.52	4.98	70.48
2490	-1.46	5.14	71.4
2500	-1.59	4.9	69.33

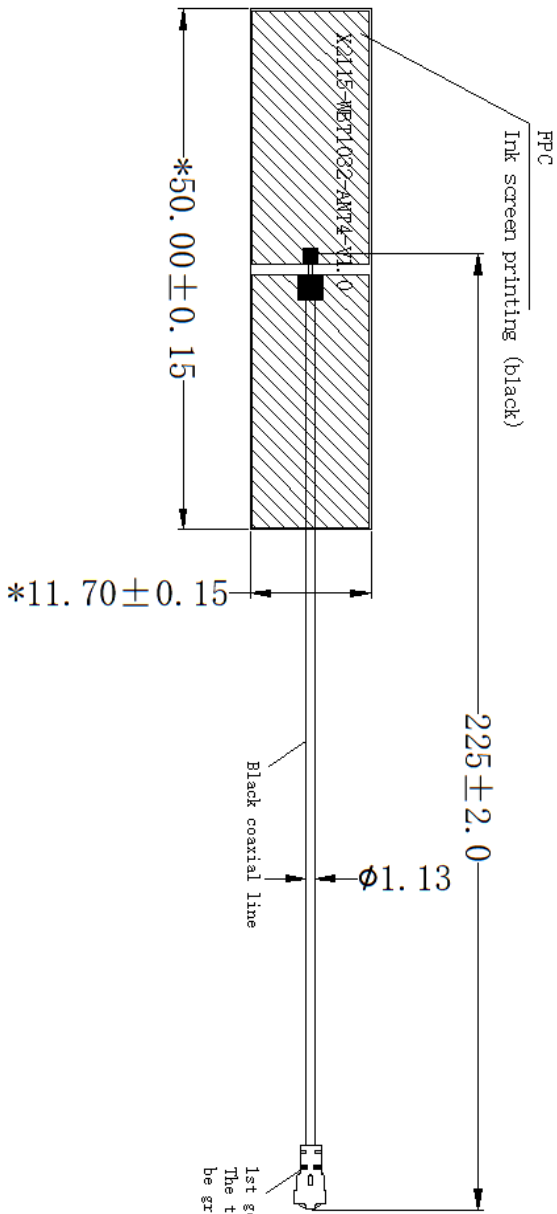
3.4 2D & 3D Radiation Pattern



3.5 Environment treatment



4. Antenna Engineer drawing

1	2	3	4	5	6																																																
Environmental requirements : ROHS ☒ REACH ☐ No																																																					
																																																					
technical requirement 1. * Important dimension annotation 2. Comparison test graph of antenna voltage standing wave ratio; 3. The antenna welding part is firm and the cable size is accurate; Soldering should be full and round; there should be no oil residue on the surface; 4. The silk screen font is clear and not easy to peel off; 5. The inclination angle of the connector should not be greater than or less than 35 ° 6. The back is a back adhesive surface; Cut the centrifugal paper surface to the tearing position 7. There should be no copper leakage at the cutting port. 8. The product must comply with the EU RoHS requirements. Shenzhen HamyWe Technology Co., Ltd <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">unmarked tolerances standard</th> <th>Type of machine</th> <th>Product name</th> <th>AMT4</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>XXX</td> <td>±2</td> <td>○</td> <td>12935-1B11032B</td> <td></td> <td>2025.06.20</td> </tr> <tr> <td>XX</td> <td>±1</td> <td>⊙</td> <td>12935-1B11032B-AMT4</td> <td></td> <td></td> </tr> <tr> <td>X</td> <td>±0.5</td> <td>⊥</td> <td>material</td> <td>Special Process</td> <td>R F</td> </tr> <tr> <td>X</td> <td>±0.2</td> <td>□</td> <td>pages in total</td> <td>page 1</td> <td>Auditor</td> </tr> <tr> <td>XX</td> <td>±0.10</td> <td>Angle</td> <td>First perspective</td> <td></td> <td>unit</td> </tr> <tr> <td colspan="2"></td> <td></td> <td></td> <td>mm</td> <td>scale</td> </tr> <tr> <td colspan="2"></td> <td></td> <td></td> <td>1:1</td> <td>revision 1/1.0</td> </tr> </tbody> </table>						unmarked tolerances standard		Type of machine	Product name	AMT4	Date	XXX	±2	○	12935-1B11032B		2025.06.20	XX	±1	⊙	12935-1B11032B-AMT4			X	±0.5	⊥	material	Special Process	R F	X	±0.2	□	pages in total	page 1	Auditor	XX	±0.10	Angle	First perspective		unit					mm	scale					1:1	revision 1/1.0
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5. Reliability Testing Report

customer	台德	part number	FPC	Work Date	2024.07.26
Test item	Test requirement			Test result	Evaluation
neutral Salt-Fog test	Hydrochloric fog through neutral testing: In the time of 24 hours, no rust corrosion, color fading or solder peel off to the antenna fpc sop in Nacl 5% ± 1% PH value 6.5-7.2, above 85% humidity. and 35℃ ± 2℃ Seals environment.			Norust corrosion, color fading or solder peel off on the antenna surface after testing	pass
tester: 伍海沅			approval: 伍海沅		