Sichuan B&T Technology Co., Ltd.
No.2&3, 5/F, Building 8, No.218, Wenwu Middle Road,
Tangxun Street, Economic Development Zone, Mianyang,
Sichuan Province, P.R.China

ProjectY240627903
Date.：2024.07.26
Ver.：A0

Antenna SPEC

Customer name：臻火

Customer project：HM103-A

Customer P/N：014.02.H103.0133

B&T P/N：74300239

Spec.：Built-in antenna-2.4/5g-gray 1.13 tin-tin wire-1st generation terminal-L = 85mm-FPC-41.5× 8.1mm

Factory signature:

compilation	verify	approval
Qiucuiping	Qin Linshu	Liulihua

Sealed by customer:

check	verify	approval

Contact information of B&T:

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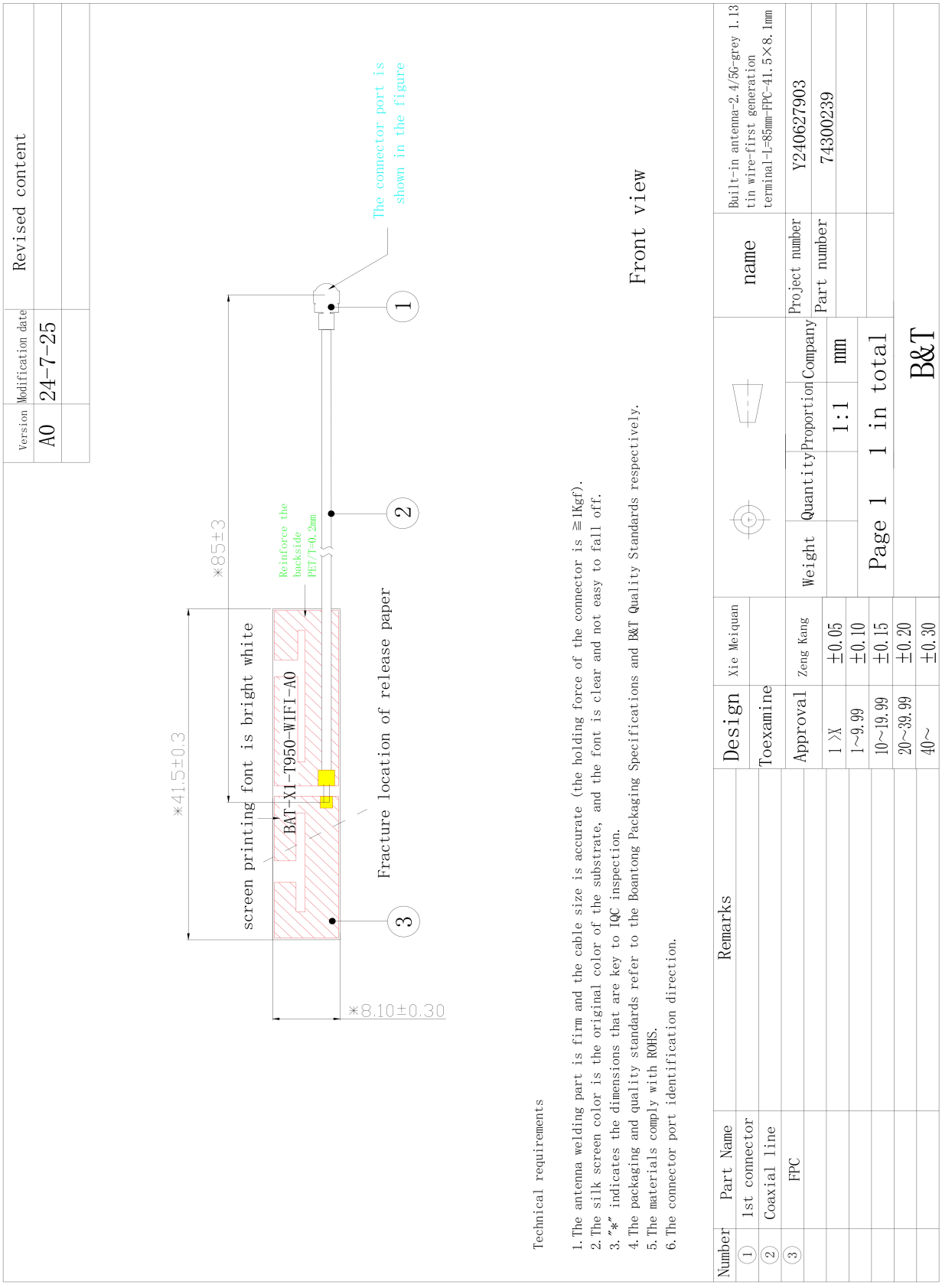
Contact person for Quality: Fu binfang	MB:15882813560	E-mail：sc_qe1@tech-now.com

Document making / revising / abolishing resume

Version	Date	Develop/revise content	Formulate	approval
A0	2024.07.26	First formulation	Qiucuiping	Qin Linshu/Liulihua

Contents

3、Product drawing



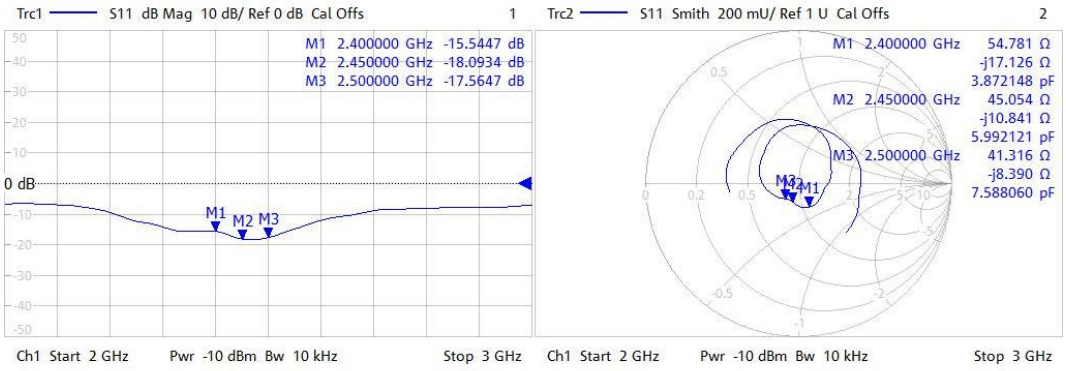
4、Properties &parameter

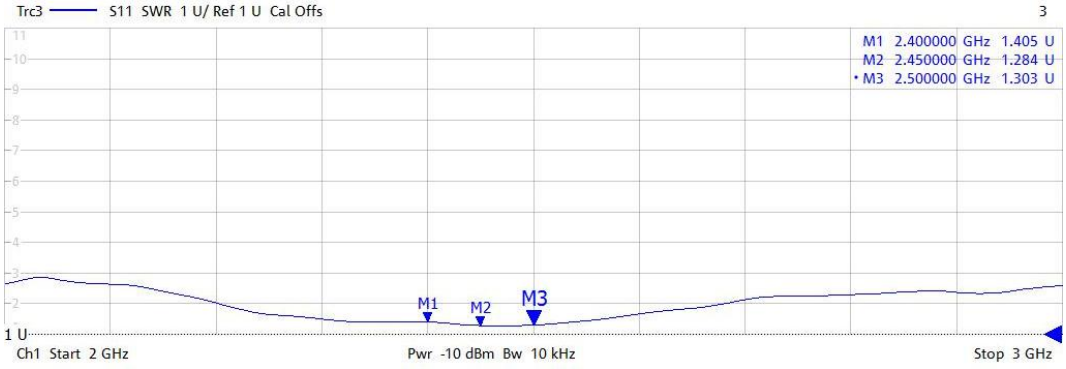
Electrical parameter	
Freq Range	2400~2500/5150~5850MHz
Characteristic Impedance	50 Ω
VSWR	＜2
Gain	≥3.96dBi，≤5.53dBi
Power capacity	<10w
Polarization mode	Linear polarization
Radiation mode	omnidirectional
Joint type	IPEX connector
Mechanical parameter	
visible length	85±3mm
Coaxial cable	grey1.13 tin tin cable
Salt fog test	24H
Environment parameter	
Operating Temp	-30℃~65℃

5、Electrical performance test report(Whole machine testing）

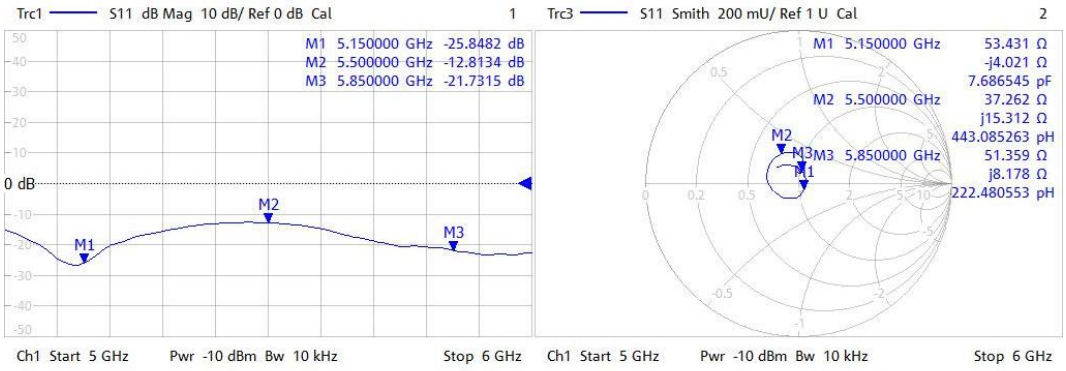
S11 Parameter

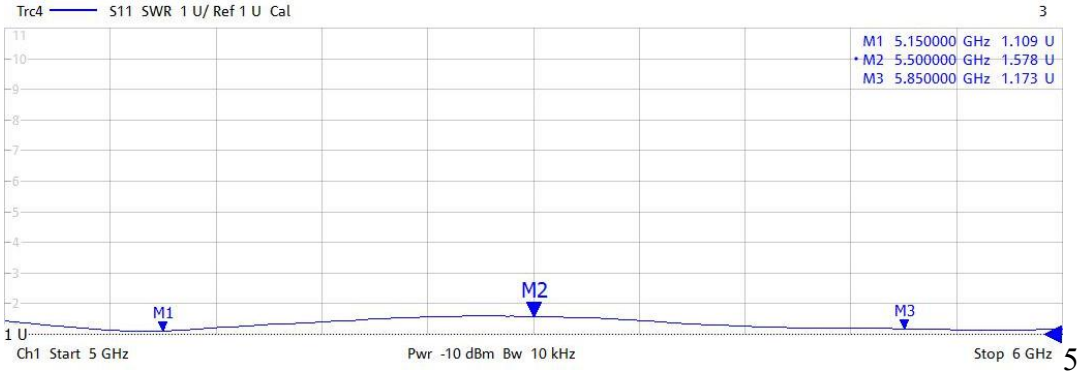
2.4G





5G





5.2

Standing wave ratio data

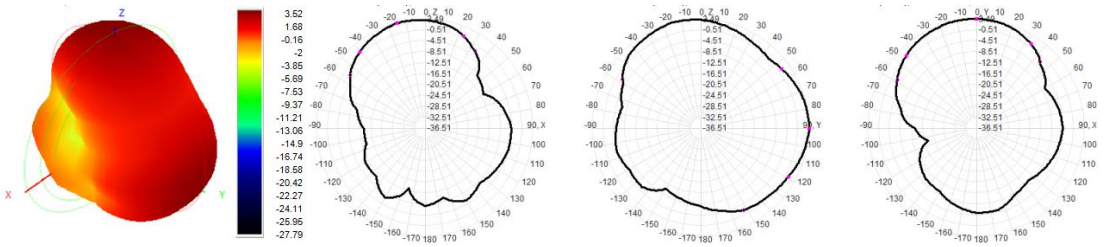
Freq/MHz	2400	2450	2500	5150	5500	5850
VSWR	1.405	1.284	1.303	1.109	1.578	1.173

➢ Antenna darkroom test data

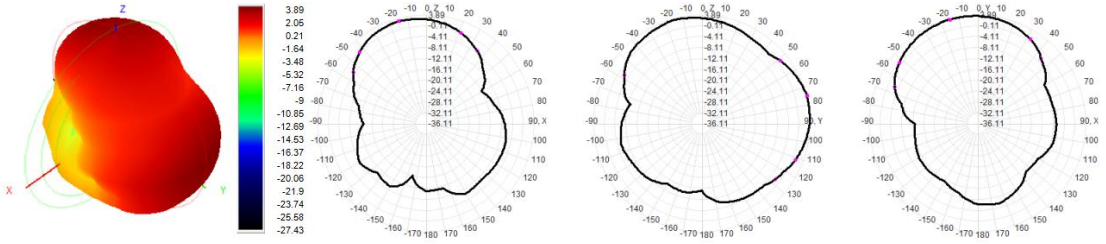
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400	3.52	**55.71**
2410	3.57	**55.27**
2420	3.54	**55.60**
2430	3.55	**55.87**
2440	3.87	**56.83**
2450	3.89	**56.05**
2460	3.96	**56.76**
2470	3.81	**57.30**
2480	3.90	**57.77**
2490	3.93	**56.35**
2500	3.96	**56.33**
5150	4.10	**68.37**
5250	3.23	**64.72**
5350	2.81	**60.90**
5450	3.79	**63.89**
5550	3.57	**66.85**
5650	4.60	**68.81**
5750	4.38	**69.84**
5850	5.53	**70.83**

➢ Antenna direction diagram

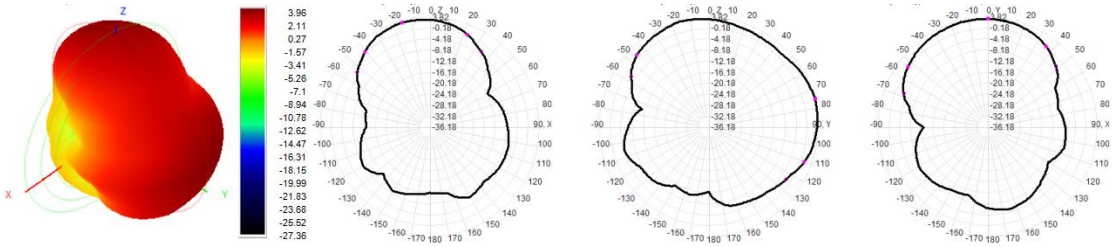
2400MHz



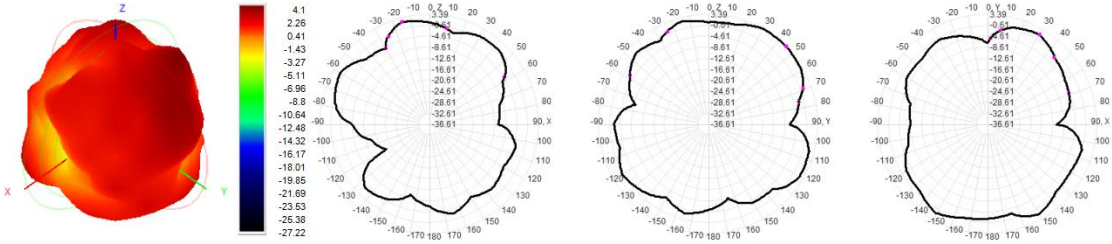
2450MHz



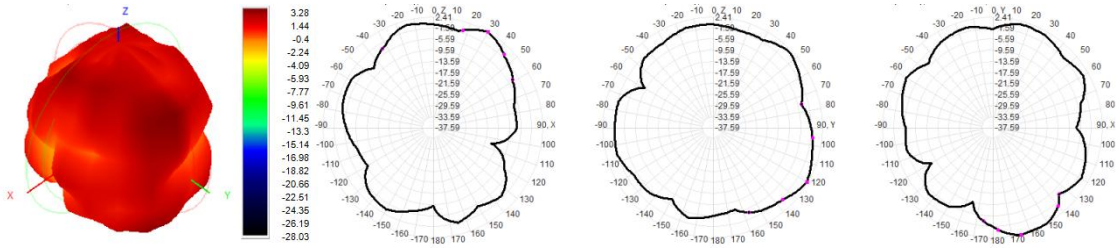
2500MHz



5150MHz



5500MHz



5850MHz