

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

	CUSTOMER(客户名称)	极米	
	CS P/N(客户机种)	雪碧	TX-B
	PART NAME(品名)	BT-1 天线	L=169mm
	FREQUENCY(频率)	2.4~2.5GHz	
	ZTX NO.(物料编号)	2.00005698	
	DATE(日期)	2023-02-28	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark(备注):

Sign(客户确认签字盖章):

SHENZHEN ZHONGTIANXUN COMMUNICATION TECHNOLOGY CO., LTD.				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		陈正伟	韦进	



Shenzhen ZTX Communication Technology Co., Ltd

NO.34 ShilongRoad,Bao'anDistrict,Shenzhen,Guangdong Province,China

Postcode: 518000

Tel: 0755-27588320

Fax: 0755-27588045

<http://www.chinaztx.com>

ANTENNA SPECIFICATION

Revision history

版本	日期	状态
A1	2023-02-28	首版

ANTENNA SPECIFICATION

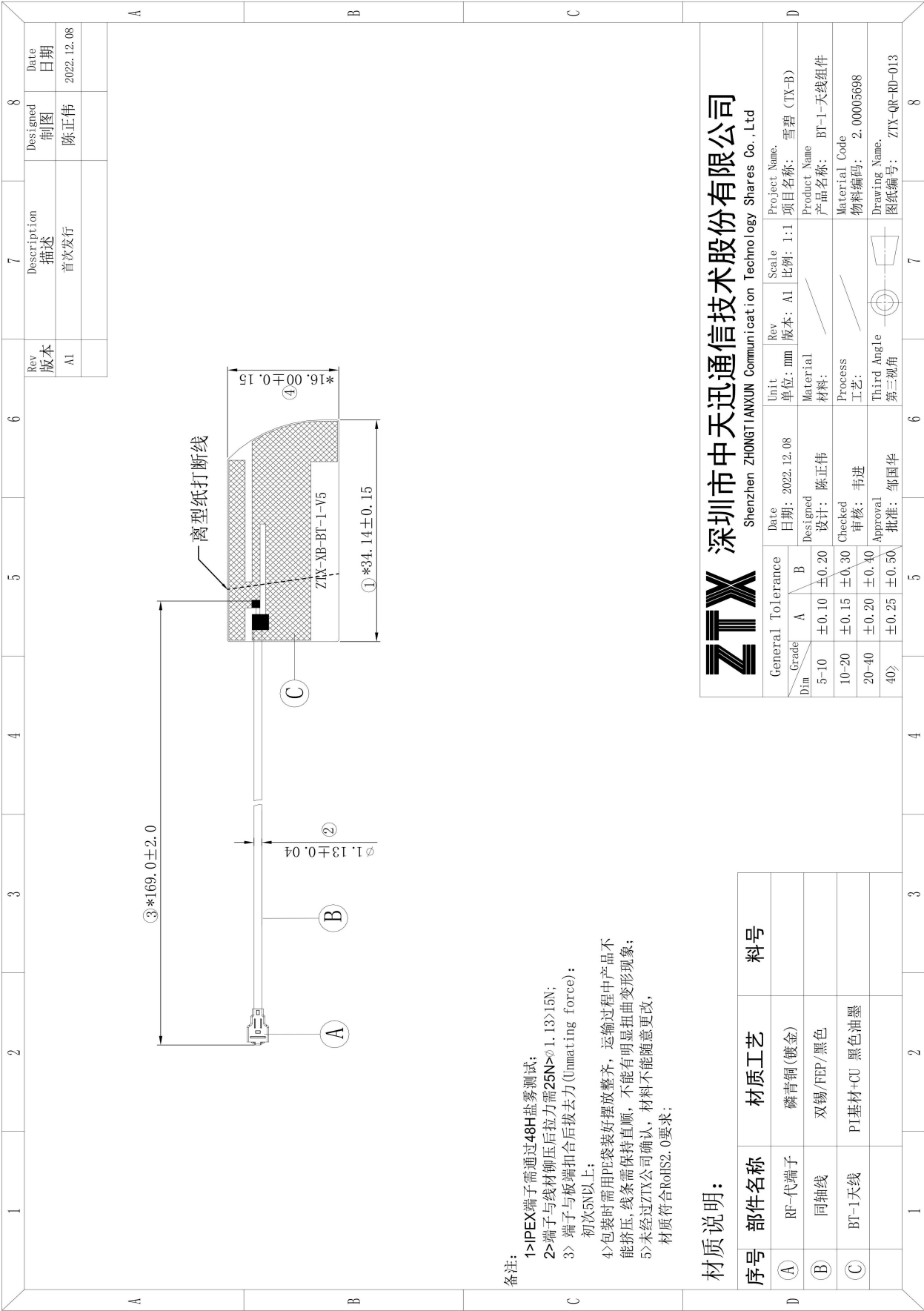
CUS P/N :雪碧 BT-1 天线
ZTX P/N :雪碧 BT-1 天线

ApplicationDate:Feb,28,2023
Editor:

Rev: R:A1
Page 2 of 14

1. Mechanical Specification

1-1 Mechanical Configuration (BT-1 天线)



ANTENNA SPECIFICATION

CUS P/N :雪碧 BT-1 天线

ZTX P/N :雪碧 BT-1 天线

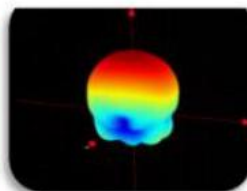
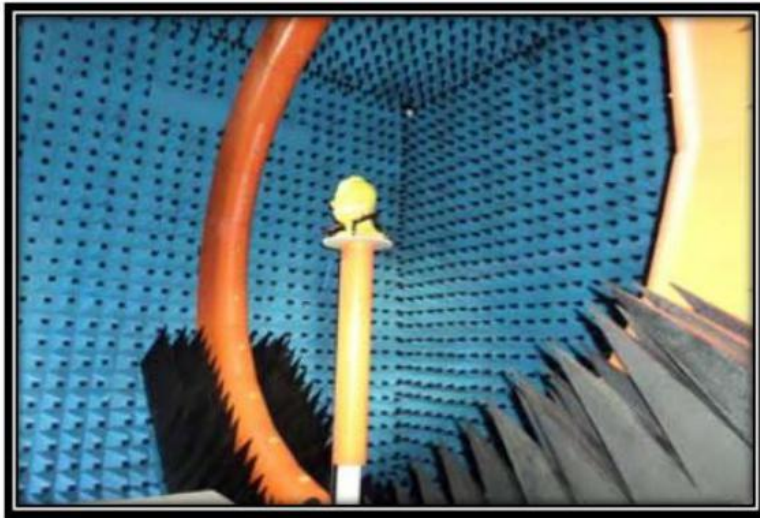
ApplicationDate:Feb,28,2023

Editor:

Rev: R:A1

Page 7 of 14

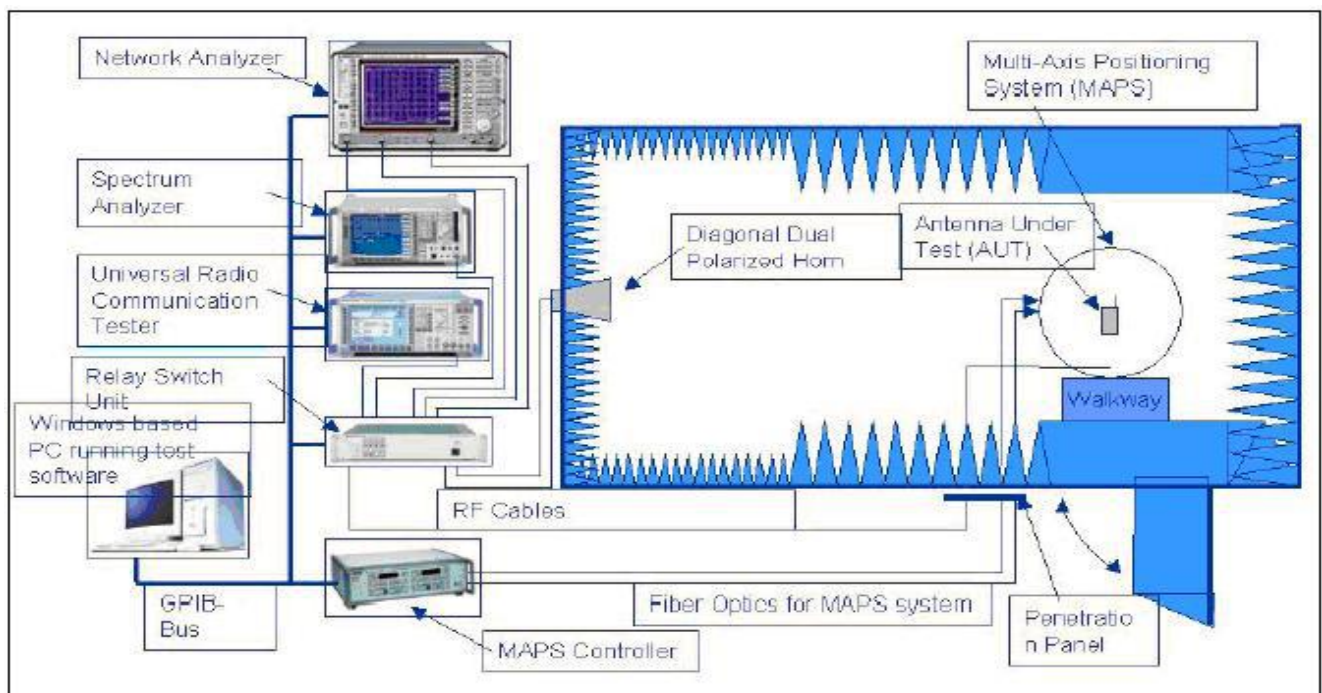
5.Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CTIA standards.

Testing range:

Support active, passive testing of GSM/CDMA/WCDMA/TD-SCDMA/LTE/WIFI/WLAN/WiMax/BT/GPS/MIMO/UWB within 0.4-6G.



ANTENNA SPECIFICATION

CUS P/N :雪碧 BT-1 天线
ZTX P/N :雪碧 BT-1 天线

ApplicationDate:Feb,28,2023
Editor:

Rev: R:A1
Page 8 of 14

6. Antenna test data

6-1 Test Data

Frequency (MHz)	2400	2450	2500	5150	5500	5850
WIFI-2	1.4	1.3	1.3	1.5	1.1	1.3
WIFI-1	1.5	1.2	1.4	1.4	1.1	1.5
BT	1.5	1.2	1.6	/	/	/

雪碧项目OTA数据+晚上				
频段	模式	CH	TRP	TIS
2.4G	11b (11M)	1	6.8	-78.6
		7	7.1	-78.8
		13	6.9	-80.3
5G	11a (54M)	36	14.5	-71.3
		149	14.8	-72.5
		165	14.6	-72.7

雪碧项目传导数据+晚上				
频段	模式	CH	功率	灵敏度
2.4G	11b (11M)	1	8.5	-88
		7	8.6	-88
		13	8.7	-88
5G	11a(54M)	36	15.5	-76
		149	15.6	-76
		165	15.5	-77

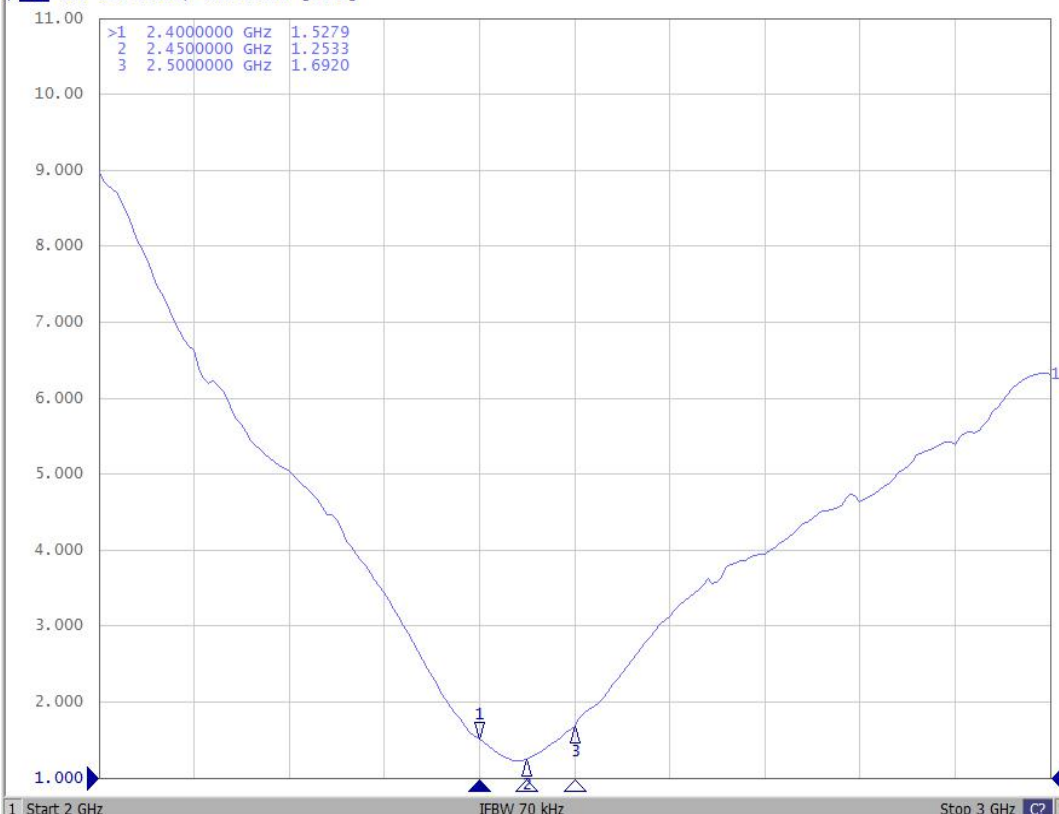
6-2 VSWR

性能要求: $VSWR \leq 2$

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Tr1 S11 SWR 1.000/ Ref 1.000 [F1 M]



ANTENNA SPECIFICATION

CUS P/N :雪碧 BT-1 天线

ApplicationDate:Feb,28,2023

Rev: R:A1

ZTX P/N :雪碧 BT-1 天线

Editor:

Page 9 of 14

6-3 No-source test data

频率 (MHz)	效率 (%)	增益 (dBi)
2400	46%	2.0
2410	46%	2.1
2420	47%	2.2
2430	48%	2.3
2440	47%	2.3
2450	48%	2.4
2460	49%	2.3
2470	49%	2.3
2480	48%	2.3
2490	48%	2.4
2500	47%	2.3
AVG	48%	2.3

6-4 Matching circuit

N/A

6-5 Environment treatment

N/A

ANTENNA SPECIFICATION

CUS P/N :雪碧 BT-1 天线

ApplicationDate:Feb,28,2023

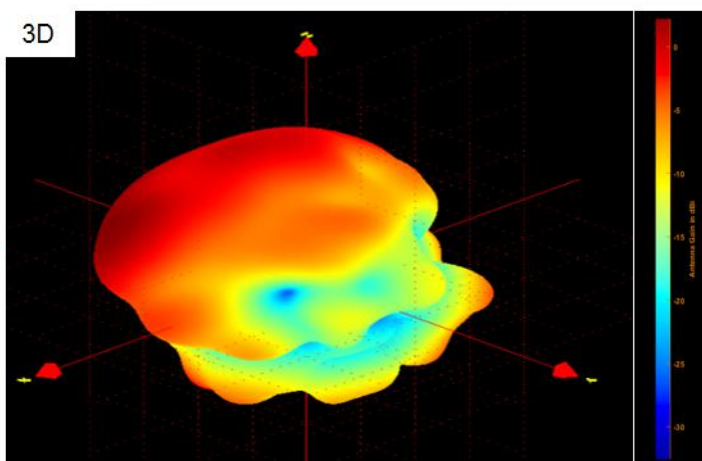
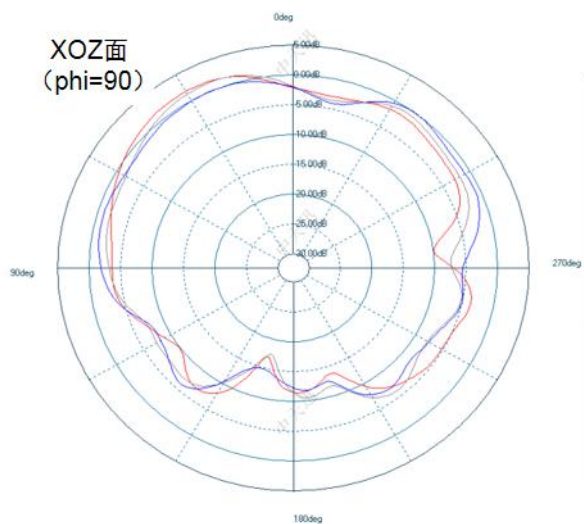
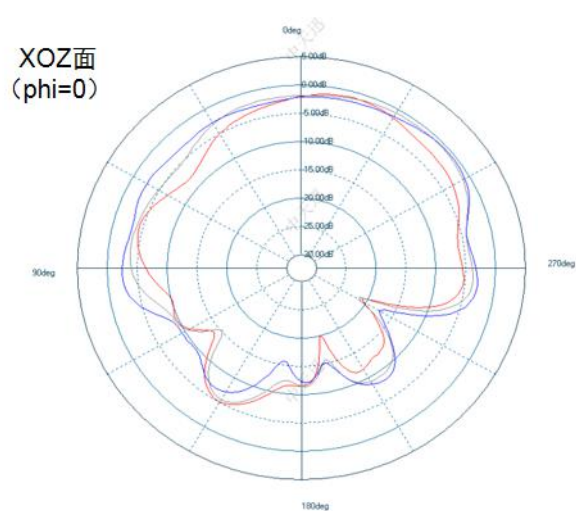
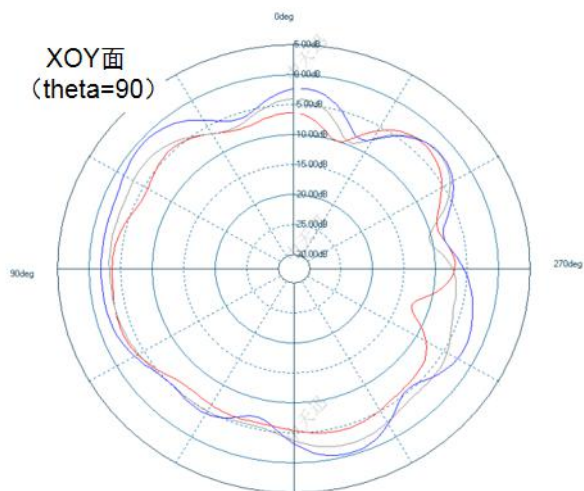
Rev: R:A1

ZTX P/N :雪碧 BT-1 天线

Editor:

Page 10 of 14

6-6 2D/3D Radiation Pattern Results



ANTENNA SPECIFICATION

CUS P/N :雪碧 BT-1 天线

ZTX P/N :雪碧 BT-1 天线

ApplicationDate:Feb,28,2023

Editor:

Rev: R:A1

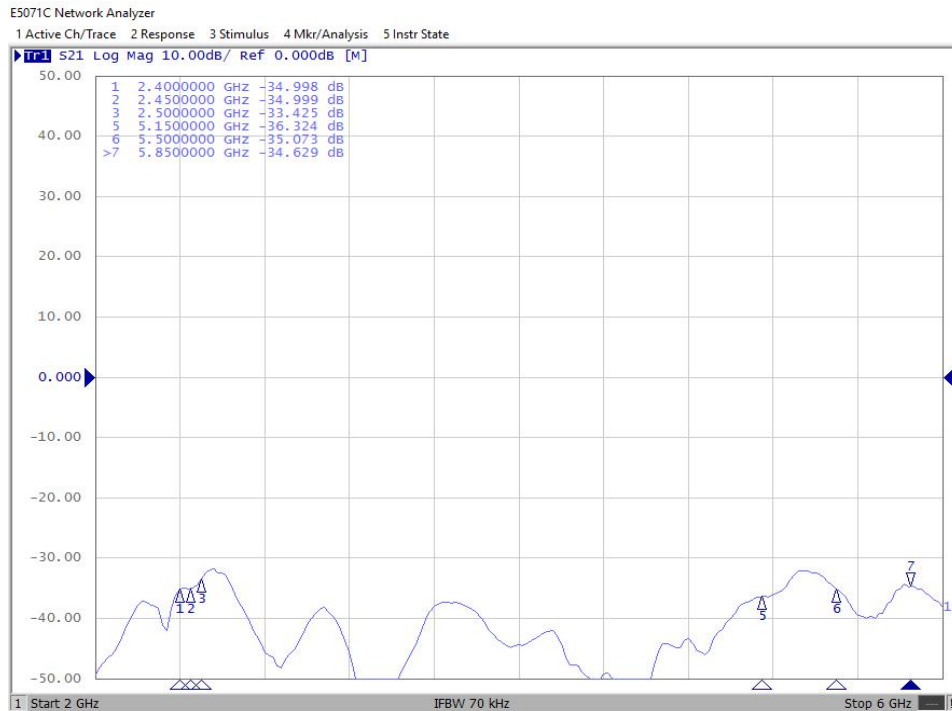
Page 11 of 14

6-7 Isolation test

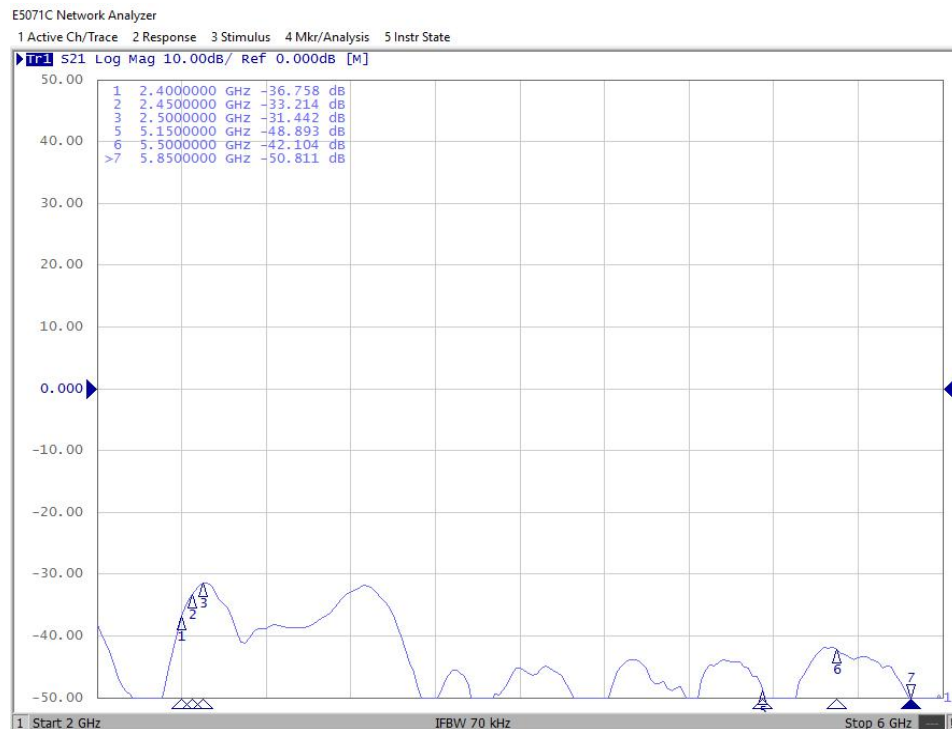
性能要求: WIFI-2&WiFi-1 间隔离度 ≥ 25 dB; BT&WiFi 天线间隔离度 ≥ 25 dB

Frequency (MHz)	2400	2450	2500	5150	5500	5850
BT/WIFI-2	-34.9	-34.9	-33.4	-36.3	-35.1	-34.6
BT/WIFI-1	-36.7	-33.2	-31.4	-48.8	-42.1	-50.8
WIFI2/WIFI-1	-27.4	-26.7	-27.1	-35.5	-41.4	-48.3

BT/WIFI-2



BT/WIFI-1



ANTENNA SPECIFICATION

CUS P/N :雪碧 BT-1 天线

ZTX P/N :雪碧 BT-1 天线

ApplicationDate:Feb,28,2023

Editor:

Rev: R:A1

Page 12 of 14

WIFI-2/WIFI-1

