

Sample Recognition Letter

PROJECT NAME : X70

BAISHUI LAI	ME	RF	QC
Signature	CHENLONG YANG	WANGPING	LIUJIAD
date	20240116	20240116	20240116
CUSTOMER	ME	MD	QC
Signature			
date			

Project X70	write: Wang ping	Name : X70 Sample Recognition Letter
Date: 2024/01/16	Examine and verify: Qinbin	
Edition A		
Manufacturer :Shenzhen BaiShuiLai Intelligent Technology Co. , Ltd. Address :307.309 ,D Building minle science and Technology Park Meiban Road Longhua district Shenzhen,China		

1summary1-2

2Name and type of antenna..... 2-2

3Debug settings.....3

 3.1 standing wave(VSWR) and Reccho reflection(Return Loss).....

 3.2 TRP/TIS make use of Agilent8960(8820C) test in the ETS 5m×4m×4m 3D Chamber

 3.3(Matching Circuit Description).....

4 Effective Radiated Power Summation 4

5assumptiondiagram.....5

1Summary

This report is mainly used to describe the 《Baishuilai Electronics》 X70 Sample antenna

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recognition letter.

2 Name and type of antenna

MATERIALS	NAME	TYPE
TDDLTE+FDDLTE ANTENNA	X70-MAIN-V1.0	PIFA
DIVERSITY ANTENNA	X70-DIV-V1.0	PIFA
WIFI/BT ANTENNA	X70-WIFI-V1.0	PIFA

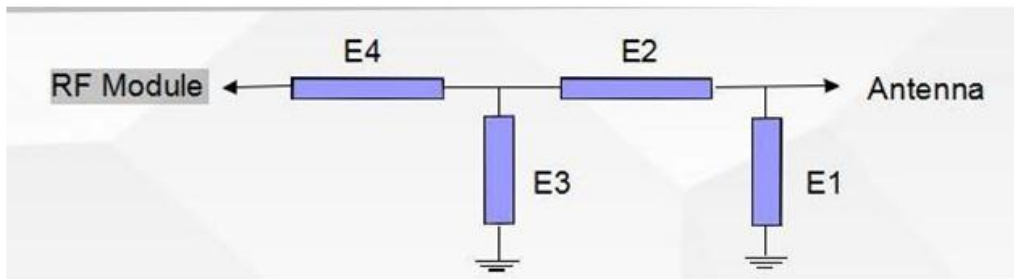
3 Debug settings

3.1 standing wave(VSWR) and echo reflection(Return Loss)

VSWR is using the HP 8753E connected to the terminal assembly to test, state for free space.

3.2 TRP/TRS Tested in the ETS 5m× 4 m× 3 m 3D Chamber using Agilent8960 (8820 C) .

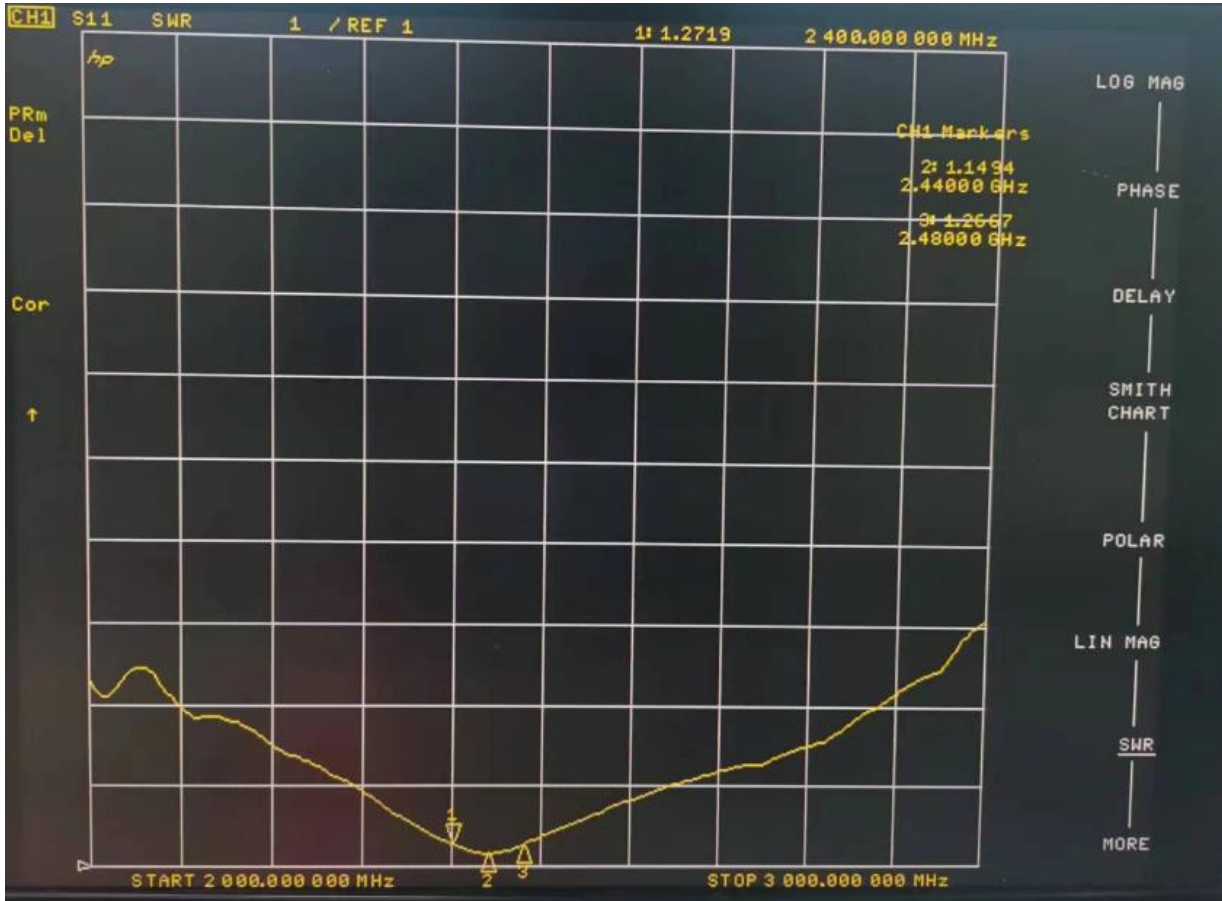
3.3 Matching Circuit Description Match have no change



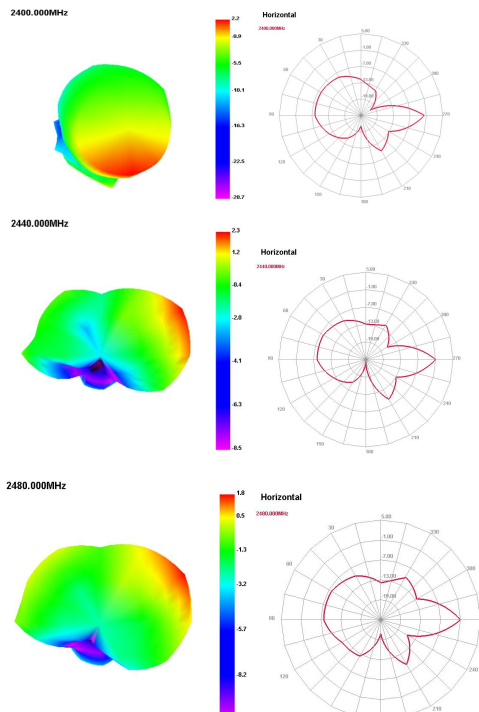
	Element	Value	
2.4G bt TDD LTE FDD LTE	E1(0201)		Press the motherboard original matching circuit is not modified
	E2(0201)		
	E3(0201)		
	E4(0201)		

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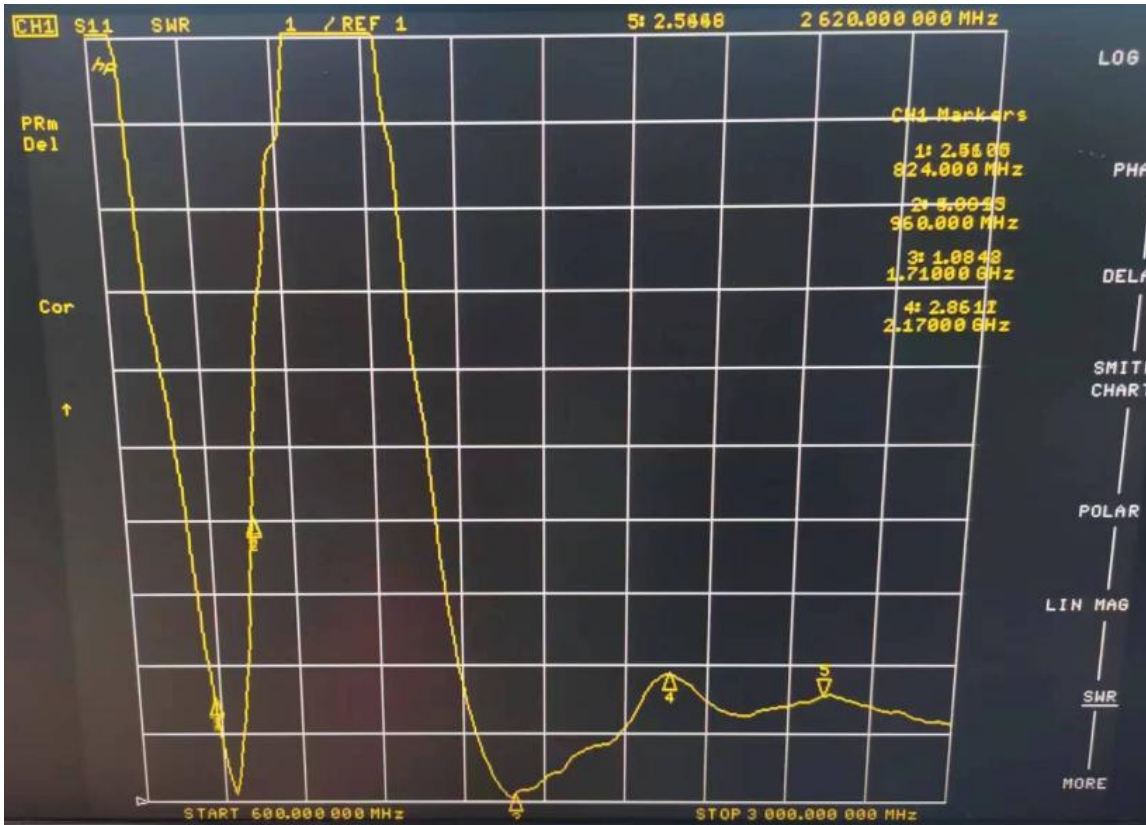
4 Effective Radiated Power And Isotopic Sensitivity Summation



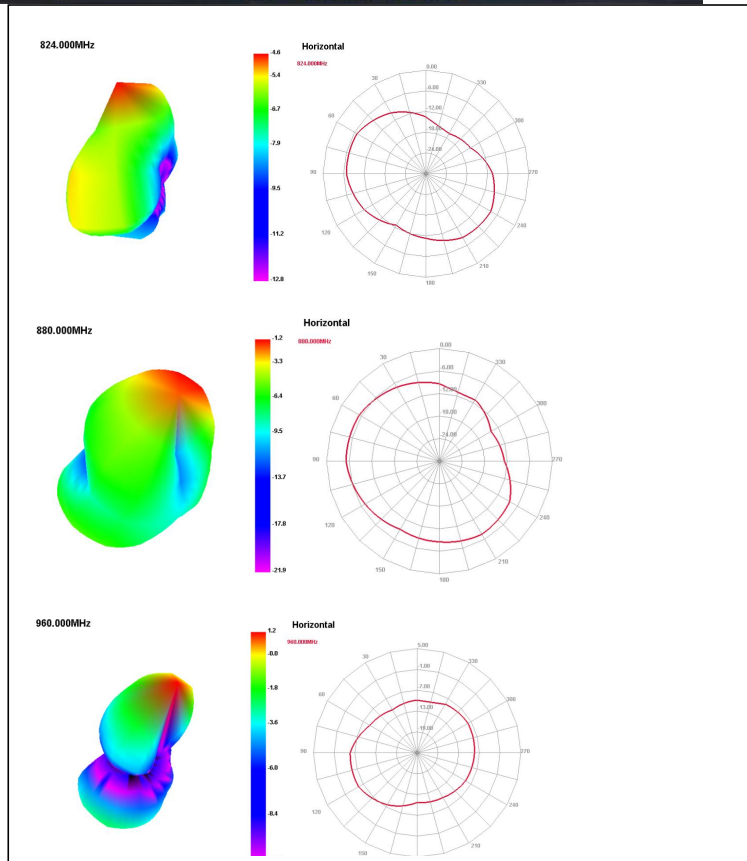
Channel	Gain(dBi)	Efficiency (%)
2400	2.20	38.4
2410	2.06	39.2
2420	2.18	39.5
2430	2.18	39.4
2440	2.22	40.1
2450	2.01	38.8
2460	2.05	39.6
2470	1.96	37.4
2480	1.81	35.4



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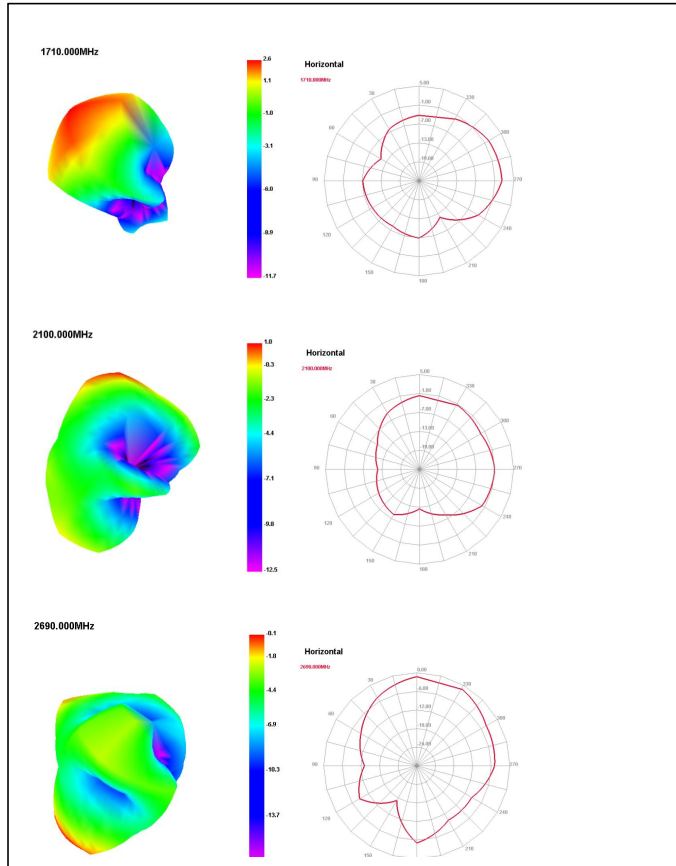


Channel	Gain(dBi)	Efficiency (%)
820	-4.59	18.5
840	-3.15	19.9
860	-2.31	22.7
880	-1.24	26.3
900	-0.98	28.7
920	-0.18	30.2
940	0.76	33.2
960	1.17	35.5
1700	2.57	45.8
1750	2.44	43.0
1800	2.38	42.7
1850	2.38	42.5
1900	1.85	39.0
1950	2.15	39.7
2000	1.95	36.6
2050	0.58	33.9
2100	1.04	38.3



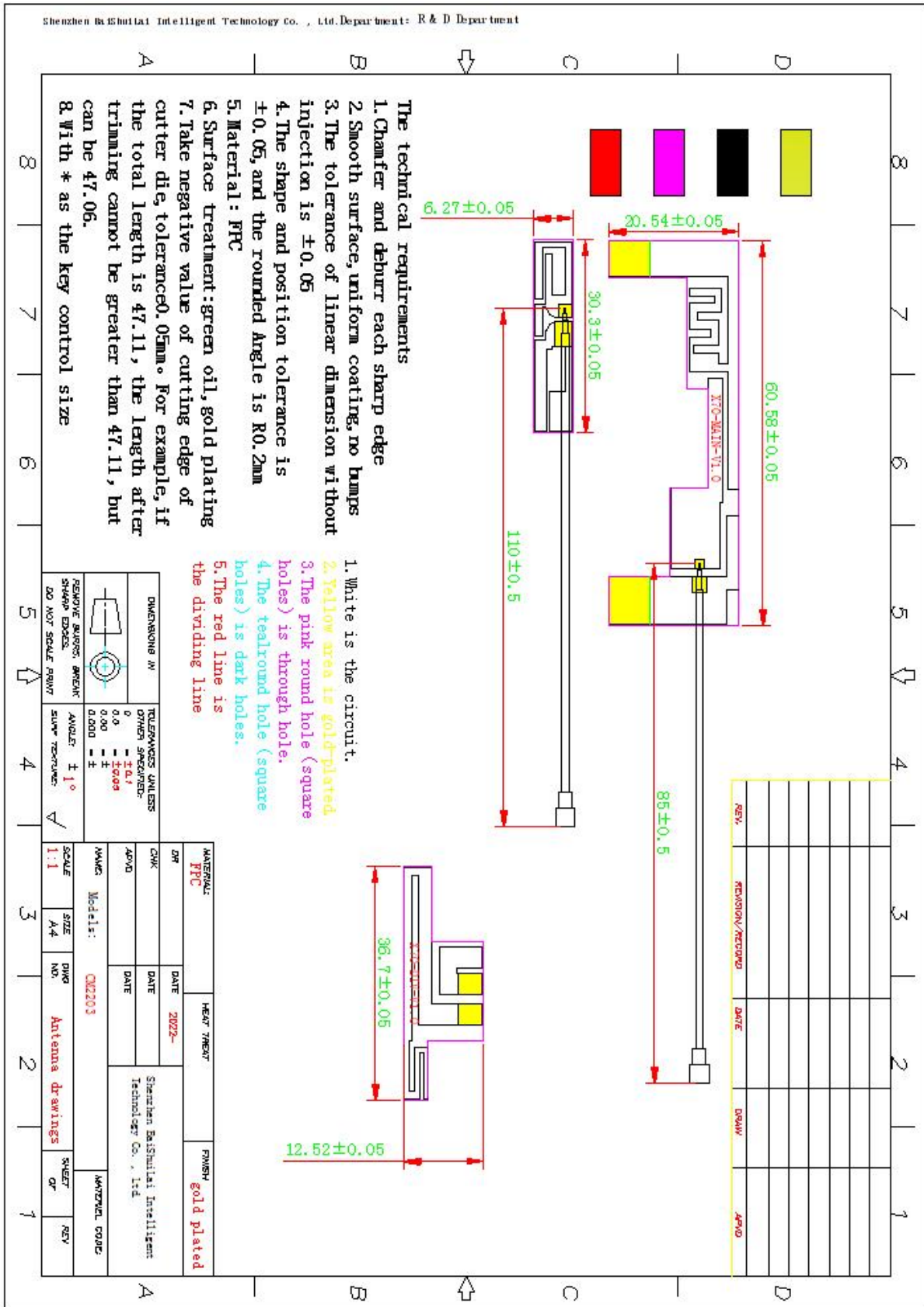
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Channel	Gain(dBi)	Efficiency (%)
2150	-1.21	24.0
2200	-1.52	24.4
2250	0.16	28.5
2300	-0.18	28.3
2350	-0.15	31.6
2400	-0.07	34.6
2450	0.60	40.9
2500	0.63	38.2
2550	0.58	36.2
2600	0.98	37.2
2650	0.58	32.1
2700	-0.14	30.9



Frequency band	Channel	TRP(dBm)	TIS(dBm)	Frequency band	Channel	TRP(dBm)	TIS(dBm)
LTE B38 20M	Low	18.5		LTE B39 20M	Low	18.7	
	Mid	18.4			Mid	17.8	
	Hig	17.8	-88.2		Hig	17.6	-90.1
LTE B40 20M	Low	18.8		LTE B41 20M	Low	18.2	
	Mid	18.3			Mid	17.9	
	Hig	18.9	-88.4		Hig	17.5	-89.8
LTE B1 10M	Low	17.1		LTE B3 10M	Low	18.9	
	Mid	18.3			Mid	18.5	
	Hig	18.1	-90.3		Hig	19.3	-92.2
LTE B5 10M	Low	16.1		LTE B7 10M	Low	18.9	
	Mid	17.2			Mid	18.7	
	Hig	18.3	-89.3		Hig	18.0	-90.6
LTE B8 10M	Low	18.1		LTE B20 10M	Low	16.2	
	Mid	16.8			Mid	16.7	
	Hig	16.6	-87.8		Hig	17.5	-90.5

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