Sample Recognition Letter

PROJECT NAME : GB10

BAISHUI LAI	ME	RF	QC
Signature	CHENLONG YANG	WANGPING	LIUJIADE
date	20241017	20241017	20241017
CUSTOMER	ME	MD	QC
Signature			
date			

Project GB10		write: Wang ping	Name : GB10 Sample Recognition Letter
Date:2024/10/17			
Edition		Examine and rify: Qinbilin	
A			

Manufacturer : Shenzhen BaiShuiLai Intelligent Technology Co. , Ltd.
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1Summary

This report is mainly used to describe the《BaishuilaiElectronics》GB10 Sample antenna

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recognition letter.

2 Name and type of antenna

MATERIALS	NAME	TYPE
TDDLTE+FDDLTE ANTENNA	4G	PIFA
WIFI/BT ANTENNA	WIFI	PIFA

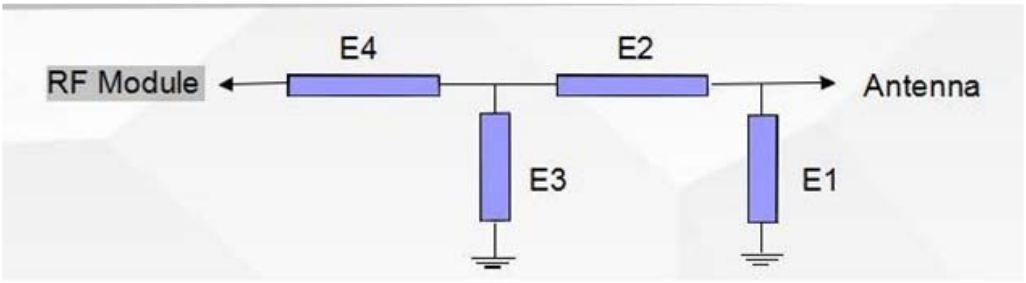
3Debug settings

3.1standing 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) 。

3.3Matching 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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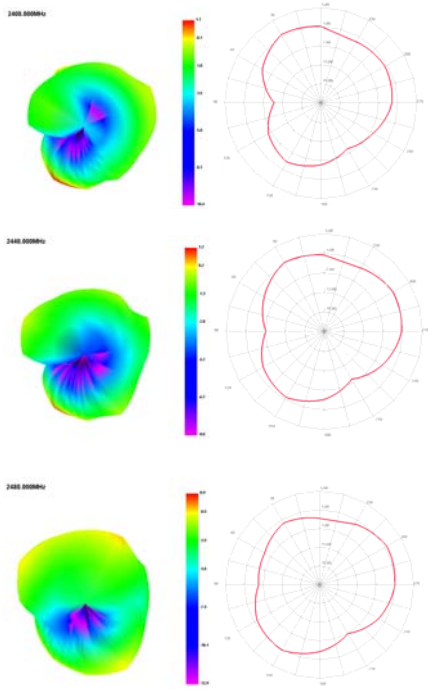
4 Effective Radiated Power And Isotopic Sensitivity Summation

Channel	Gain(dBi)	Efficiency (%)
2400	1.09	50.72
2410	1.07	50.28
2420	1.08	51.1
2430	1.02	50.92
2440	1.17	53.21
2450	1.11	52.28
2460	1.08	52.51
2470	0.97	51.14
2480	0.9	50.18



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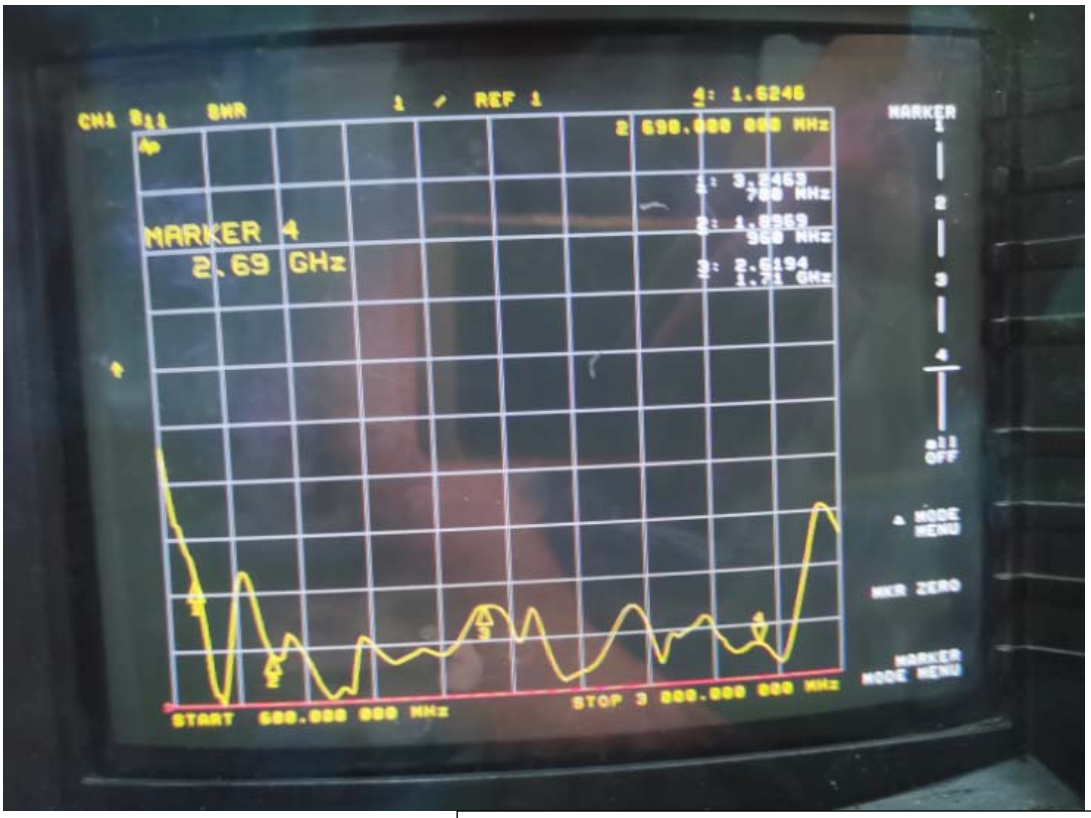
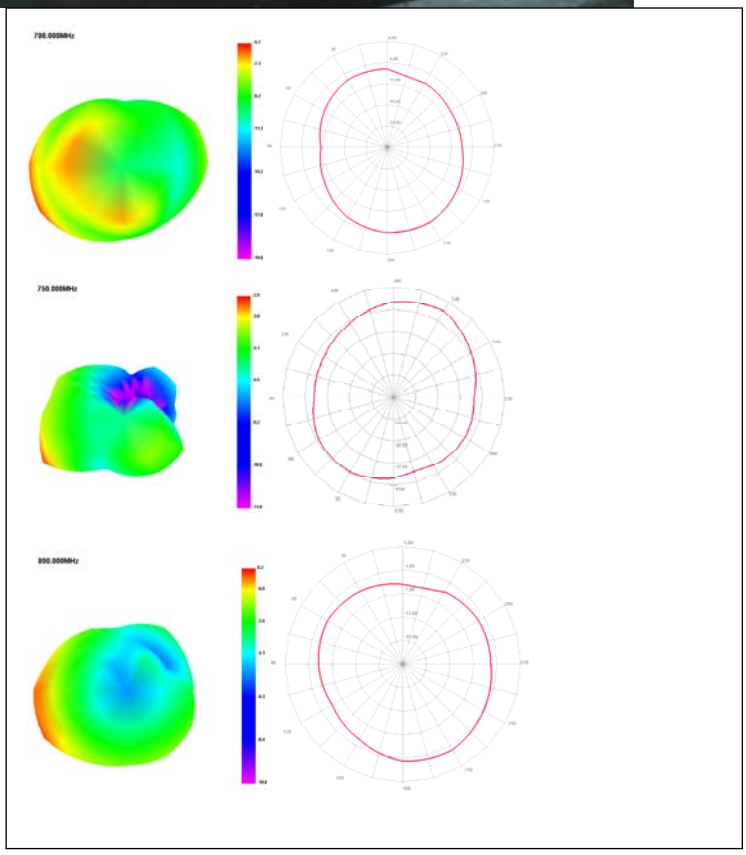


Channel	Gain(dBi)	Efficiency (%)
700	-5.68	13.16
725	-4.42	17.11
750	-2.88	22.4
775	-1.57	31.07
800	0.2	50.31
824	-0.85	47.41
840	-1.35	43.11
860	-1.61	40.52
880	-2.19	36.1
900	-2.46	33.59
920	-2.53	29.95
940	-2.59	26.31
960	-2.16	26.33
1710	-0.26	32.32
1750	-0.24	30.49
1800	0.33	37.02
1850	0.19	39.38



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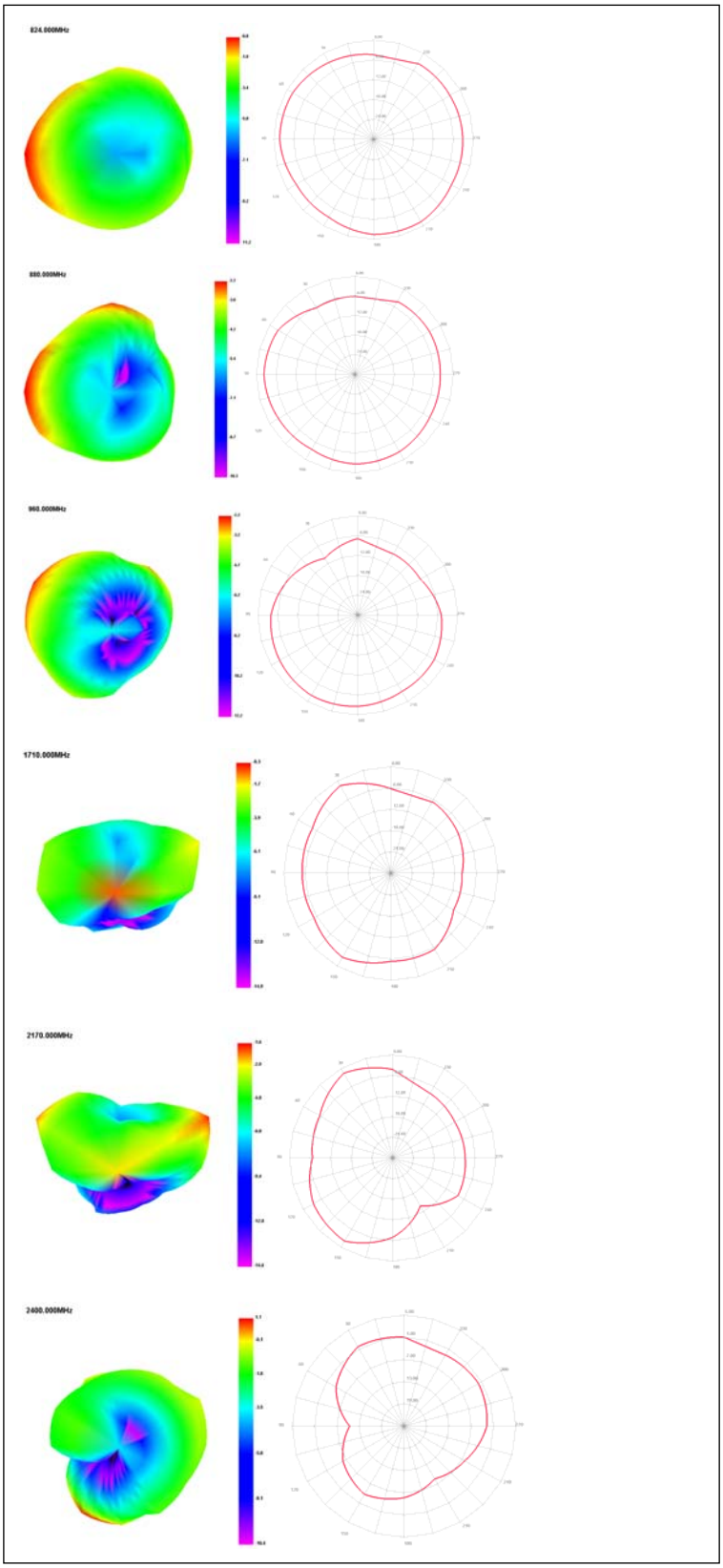
Channel	Gain(dBi)	Efficiency (%)
1900	-1.8	25.57
1950	-0.7	35.17
2000	-0.13	43.92
2050	-0.25	44.2
2100	0.34	45.73
2150	-1.42	27.25
2200	-1.55	24.88
2250	-2.34	21.69
2300	-1.12	22.8
2350	0.64	33.93
2400	0.12	39.39
2450	0.4	44.55
2500	0.41	40.74
2550	0.09	36.49
2600	-0.31	36.93
2650	-0.09	31.96
2690	-1.02	31.6



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Frequency band	Channel	TRP(dBm)	TIS(dBm)	Frequency band	Channel	TRP(dBm)	TIS(dBm)
GSM900	Low	27.8		DCS1800	Low	25.1	
	Mid	27.6			Mid	24.6	
	Hig	27.2	-104.5		Hig	24.8	-104.8
GSM850	Low	28.3		PCS1900	Low	24.1	
	Mid	28.8			Mid	24.7	
	Hig	28.6	-105.2		Hig	25.6	-105.3
LTE B1 10M	Low	18.7		LTE B3 10M	Low	18.9	
	Mid	18.6			Mid	18.6	
	Hig	17.8	-92.1		Hig	19.0	-93.4
LTE B5 10M	Low	19.1		LTE B7 10M	Low	18.9	
	Mid	18.6			Mid	19.3	
	Hig	18.2	-90.3		Hig	18.4	-90.9
LTE B8 10M	Low	17.9		LTE B20 10M	Low	19.8	
	Mid	18.2			Mid	19.4	
	Hig	17.6	-91.1		Hig	18.9	-90.7
LTE B28 10M	Low	15.1		LTE B38 20M	Low	19.3	
	Mid	15.4			Mid	19.7	
	Hig	16.1	-88.6		Hig	18.4	-91.2
LTE B40 20M	Low	18.5		LTE B41 20M	Low	18.7	
	Mid	18.8			Mid	19.2	
	Hig	19.2	-91.3		Hig	17.8	-92.2

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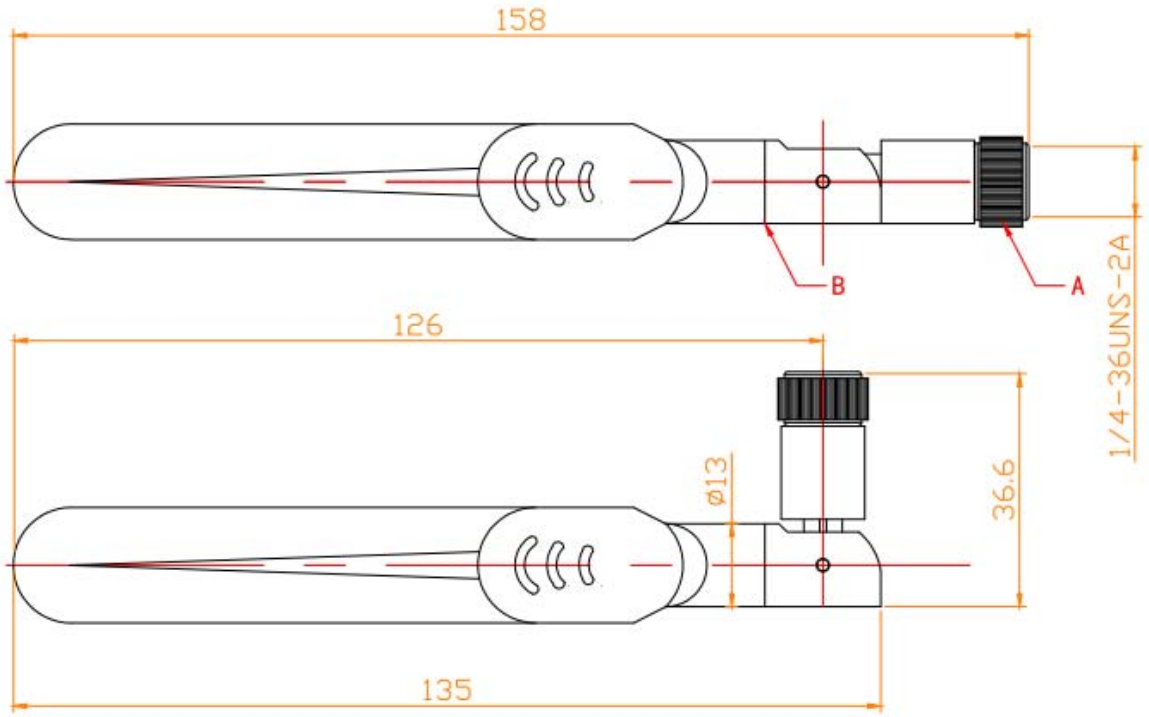
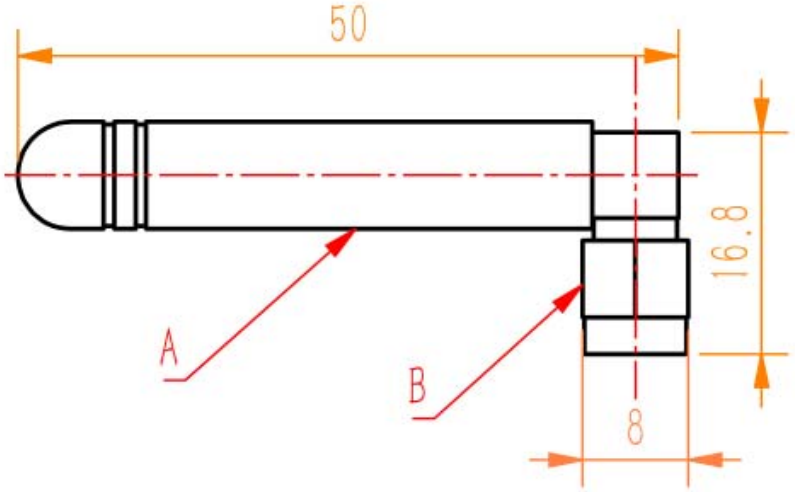
4GAntenna：



2.4GAntenna：



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