

Shenzhen qianmu

communication technology co.,
ltd

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Antenna acknowledgement

Applicable model	BH11		
client	Shenzhen wokexun electronic technology co., ltd		
Specification description			
	Product content	specifications	Customer material code
Specification description	aerial	LDS (laser engraving+electroless plating)	
Change resume			
serial number	date	version	Brief description of changes
one	2025-01-15	V1.0	New project

Supplier sample confirmation					
rese arch and deve lop men t	struc ture	chec k	decid e		
			PASS		
			FAIL		
Customer sample confirmation					
electron	structure	project	purchase	quality	check

Reasons for rejection or other precautions:

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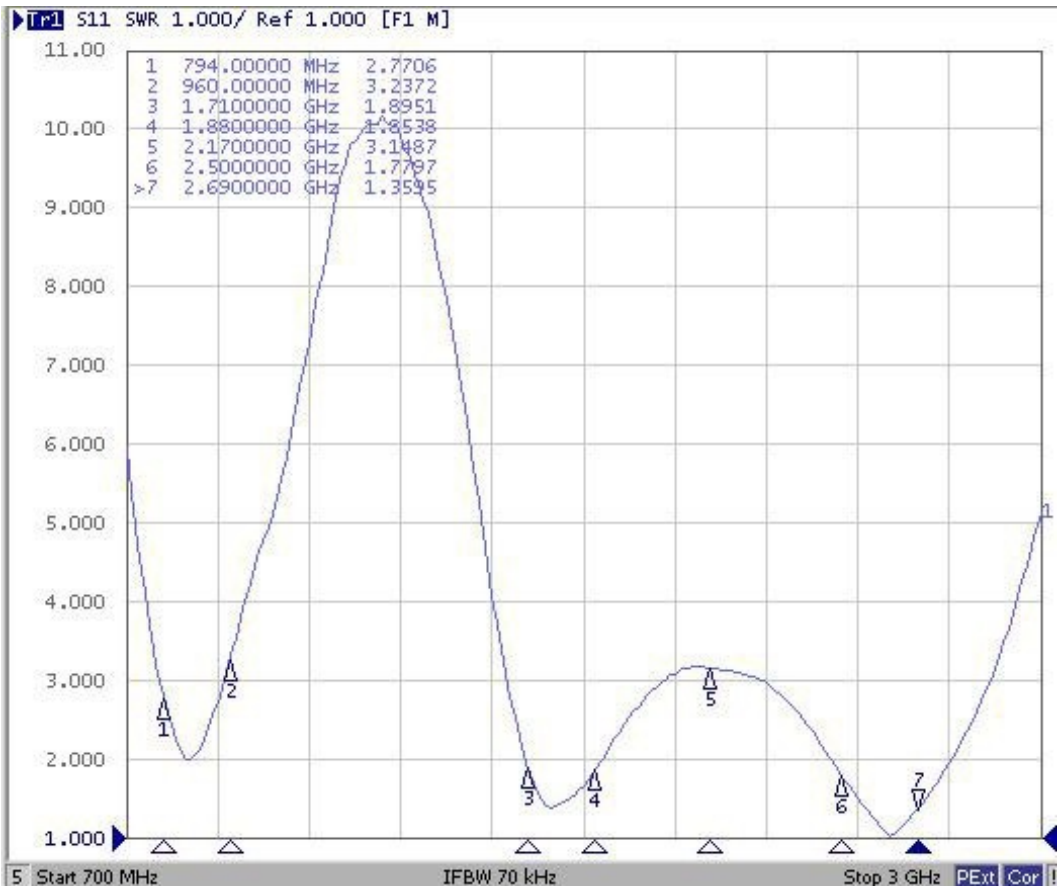
1, the main antenna electrical performance test report

1. 1 Test items and equipment

	test item	equip ment
Passive testing	①.VSWR parameters ②.Return loss parameter	Network analyzer: HP8753D 3D darkroom antenna test system (ETS test system, network analyzer, comprehensive tester)
Active testing	(1). Transmit power ②. Receiving level ③. Receiving sensitivity	Comprehensive tester: Agilent E5515C 3D darkroom antenna test system (ETS test system, comprehensive tester)

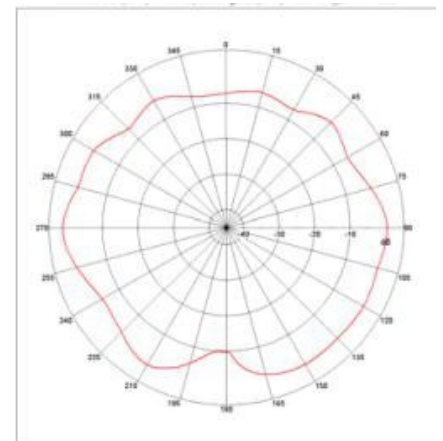
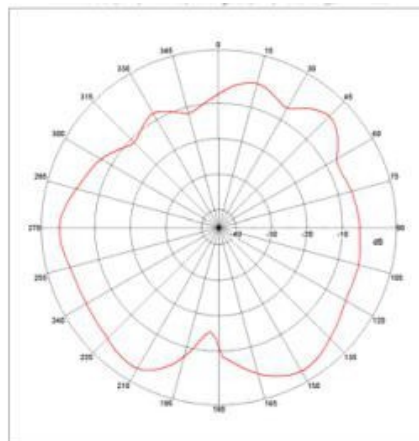
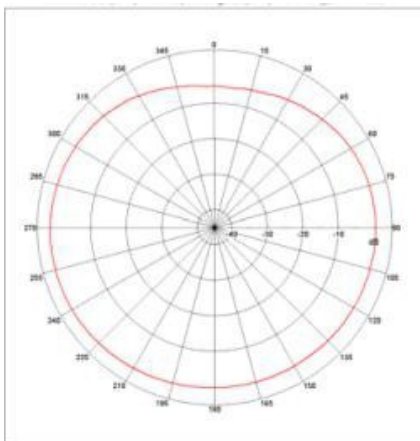
1. 2 GSM passive test report VSWR parameter value

Frequency (MHZ)	794	960	1710	1880	2170	two thousand and five hundred	2690
R L	2.7	1.71	1.8	1.8	3.1	1.7	1.3



Return loss parameter value

Frequency(MHz)	794	960	1710	1880	2170	two thousand and five hundred	2690
R L	-6.5	-5.5	-10.2	-10.4	-5.7	-11	-16.3



2. Test report

	GSM900				GSM850		
Channel	one	62	124		128	190	251
TRP	18.15	17.04	16		17.5	18.97	19.58
TIS			-90.35				-83.9
	DCS1800				PCS1900		
Channel	512	698	885		512	661	810
TRP	23.97	23.63	22.9		20.87	20.88	21.04
TIS			-98.88				-100.98
	WCDMA900				WCDMA850		
Channel	2937	3013	3088		4357	4400	4458
TRP	9.32	8.45	6.26		6.64	7.72	8.02
TIS			-92.44				-84.49
	WCDMA1900				WCDMA2100		
Channel	9662	9800	9938		10562	10700	10838
TRP	14.36	14.32	14.23		14.44	14.25	14.27
TIS			-101.23				-100.16
	B1				B2		
Channel	18050	18300	18550		18650	18900	19150
TRP	15.03	14.24	14.19		14.23	15.32	15.12
TIS			-85.07				-85.23
	B3				B5		
Channel	19250	19575	19900		20450	20550	20600
TRP	16.15	16.85	15		6.99	6.94	7.43
TIS			-78.7				-68.46
	B7				B8		
Channel	20800	21100	21400		21500	21625	21750
TRP	16.21	16.72	16.6		8.11	7.01	7.83
TIS			-88.38				-78.8
	B20				B34		
Channel	24200	24300	24400		36250	36275	36300
TRP	6.3	6.11	7.87		16.61	16.27	18.24
TIS			-70.32				-88.75
	B38				B39		
Channel	37850	38000	38150		38350	38450	38550
TRP	17.37	16.96	18.04		15.06	15.6	15.15

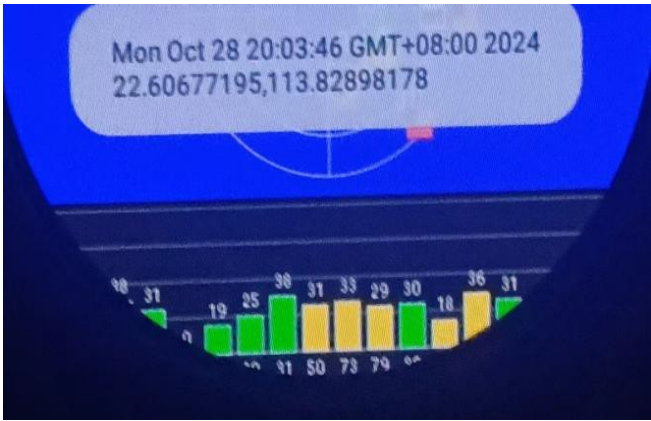
TIS			-89.58			-87.35
	B40				B41	
Channel	38750	39150	39550	40340	40740	41140
TRP	16.42	15.47	15.18	17.54	16.77	16.77
TIS			-89.16			-89.95

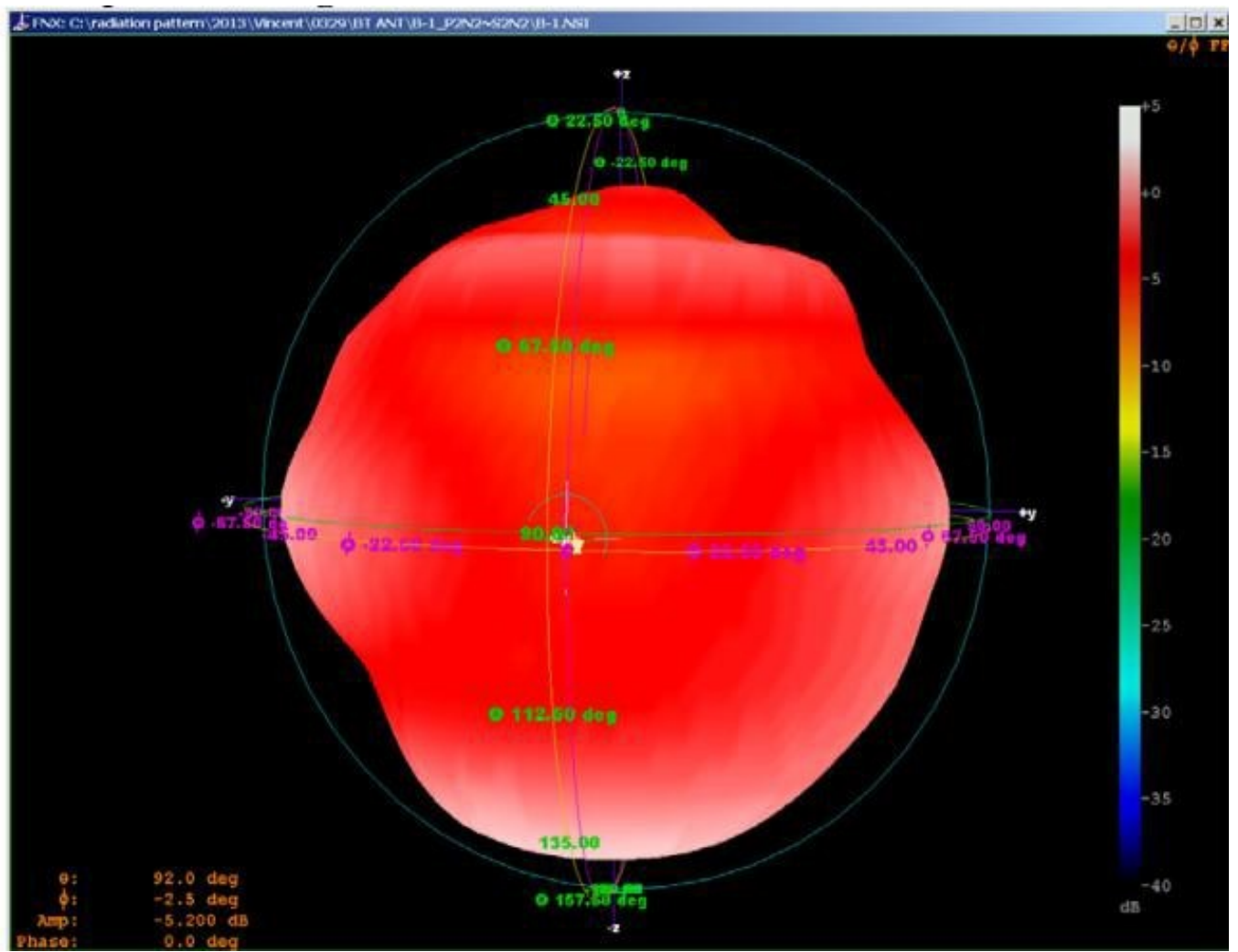
3. Antenna gain value

WiFi/BT+GPS

	频率 Frequency	增益值 (dBi) Gain
WiFi/BT	2400-2500MHz	-1
GPS	1575.42MHz	-1

4. Actual test of GPS/WIFI





5. Description of environmental treatment



1. Screen paste conductive cloth shielding
2. 1/2 point laser engraving place is grounded with conductive cloth and metal frame.
3. Stick conductive cloth on the motherboard to shield interference, and stick conductive sponge to ground the screen.
4. The horn is grounded with conductive cloth.



5. The motherboard cable is stuck with conductive cloth to shield interference.
6. The mic line is placed away from the antenna.

6, structural drawings

