

深圳市泓德致新科技有限公司
Shenzhen Hongde Zhixin Technology Co.,
Ltd.

Shenzhen HONG DE ZHI XIN Technology Co., LTD
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Antenna Specifications

客户名称：众悦 方案：
Customer Name: Zhongyue Solution:
项目名称： Z10
Project Name: Z10

Antenna type：Internal Antenna

天线型号 ： Wifi GPS 天线 HDZX-T40-WGB 3 代端子黑色
L=80mm
Antenna Model: Wifi GPS Antenna HDZX-T40-WGB, 3rd-generation
terminal, black, L=80mm

公司确认
Company Confirmation

客户确认
Customer Confirmation

射频工程师： 胥工
Radio Frequency Engineer:

测试：张工
Xu Gong Test: Engineer Zhang

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拟定 Draft	韦春念 Wei Chunlian	产品规格书 Specification	版本 Edition	A
发文部门 Issuing Departm- ent	研发部 Research and deve- lopment department		发行日期 Date of issue	2025.9.26

1.技术指标与实验设备

1. Technical Specifications and Experimental Equipment

- 1.1 技术指标
- 1.1 qualification

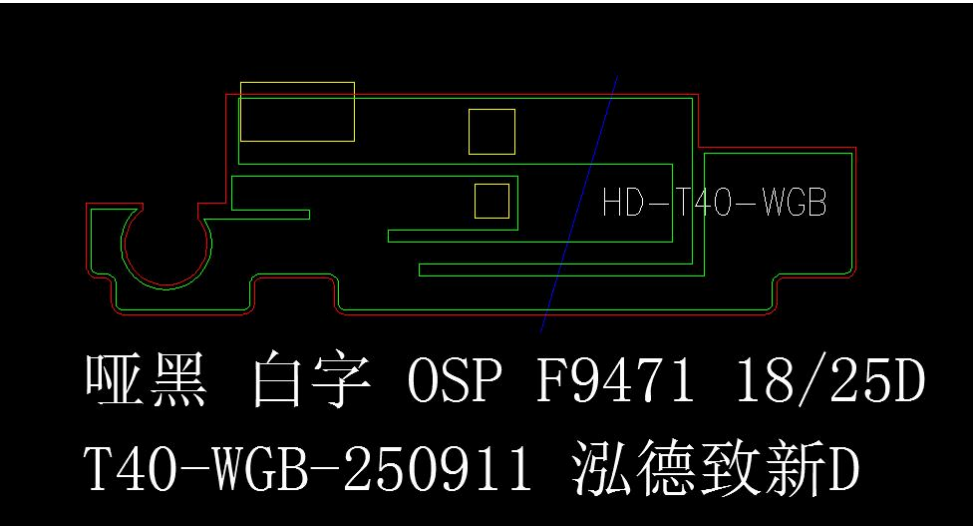
Frequency Band	MHz
GPS/WiFi/BT 频率 GPS/WiFi/BT Frequency	(1575/ 2380-2500 4900~5800) MHz
天线增益 Antenna gain	1.4db
无线通讯标准 Wireless Communication Standards	802.11
调试类别 Debugging Category	同轴线+FPC 焊接 Coaxial cable + FPC wel- ding

客户项目基本信息

Basic Information of the Customer Account

天线外形图

Antenna外形 diagram

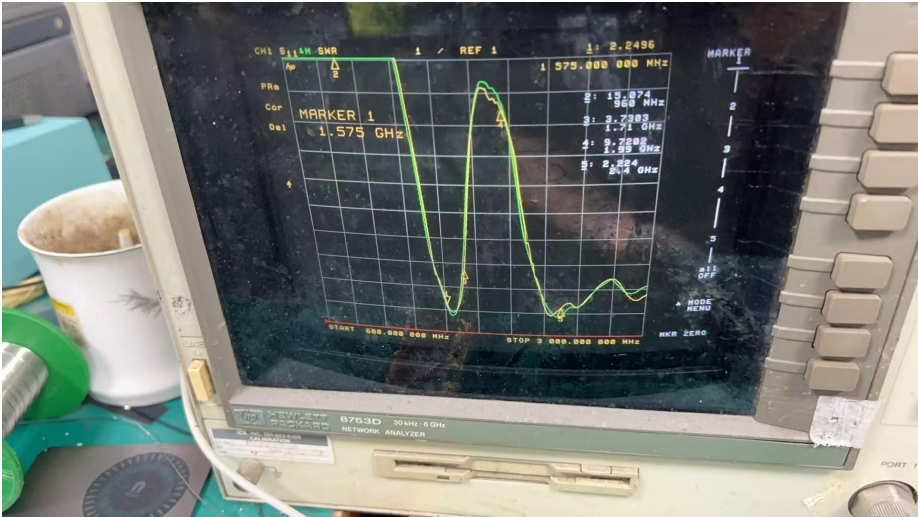


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WIFI 8米可以45DB GPS 40秒定位 蓝牙8米音乐流畅
 WIFI: 8 meters range with 45 dB signal strength GPS: 40-second positioning accuracy Bluetooth: 8-meter range for smooth music playback



WiFi 波形图
 天线无缘测试
 WiFi wave-
 form diagram:
 Antenna
 contact-free
 test

Passive Test For WIFI2.4								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
2400	53.85	-2.45	1.4	-0.78	25.212	31.64	1.37	-9.76
2410	55.52	-2.18	1.55	-0.6	26.983	33.54	1.55	-9.89
2420	55.05	-2.44	1.26	-0.89	25.56	31.491	1.26	-10.39
2430	54.82	-2.61	0.92	-1.23	24.707	30.109	0.92	-11.48
2440	55.04	-2.44	1.06	-1.09	25.763	31.276	1.06	-12.18
2450	56.51	-2.48	1.86	-1.29	25.667	30.84	0.86	-12.6
2460	56	-2.37	0.91	-1.24	26.474	31.523	0.91	-12.12
2470	53.03	-2.52	0.73	-1.42	25.757	30.276	0.73	-11.7
2480	53.48	-2.18	1.07	-1.08	27.859	32.62	1.07	-10.62
2490	52.58	-2.18	1.17	-0.98	28.028	32.548	1.17	-9.82
2500	53.5	-2.25	1.08	-1.07	27.599	31.902	1.08	-10.13

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Passive Test For D6									
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	i
5150	42.89	-3.68	1.43	-0.72	28.405	14.482	1.43	-17.89	
5200	43.56	-3.61	1.15	-1	27.567	13.126	1.15	-14.17	
5250	44.79	-3.49	1.38	-0.77	28.898	12.634	1.38	-13.27	
5300	46.45	-3.33	2.17	0.02	30.73	12.72	2.17	-13.56	
5350	49.48	-3.06	3.02	0.87	35.602	13.883	3.02	-15.25	
5400	52.07	-2.83	3.42	1.27	40.377	15.697	3.42	-14.88	
5450	52.41	-2.81	2.95	0.8	39.369	16.037	2.95	-14.1	
5500	51.55	-2.88	2.57	0.42	35.781	15.768	2.57	-14.8	
5550	51.88	-2.85	3.28	1.13	34.391	15.49	3.28	-14.8	
5600	50.45	-2.97	3.42	1.27	33.383	15.07	3.42	-14.06	
5650	50.92	-2.93	3.06	0.91	31.875	14.047	3.06	-15.1	
5700	52.51	-2.8	2.95	0.8	37.177	15.338	2.95	-15.67	
5750	51.19	-2.91	2.75	0.6	36.485	14.708	2.75	-14.02	
5800	50.77	-2.94	3	0.85	36.606	14.165	3	-17.14	
5850	52.86	-2.77	3.91	1.76	40.549	15.307	3.91	-19.8	

天线有源测试
Active Antenna Testing

Test Result	802.11B, Wifi 2.4G 11M		
	12	6	1
Frequency (MHz)	2467	2437	2412
TRP (dBm)	14.13	13.16	13.99
TIS (dBm)	-82.21	-82.07	-82.32

5.8G

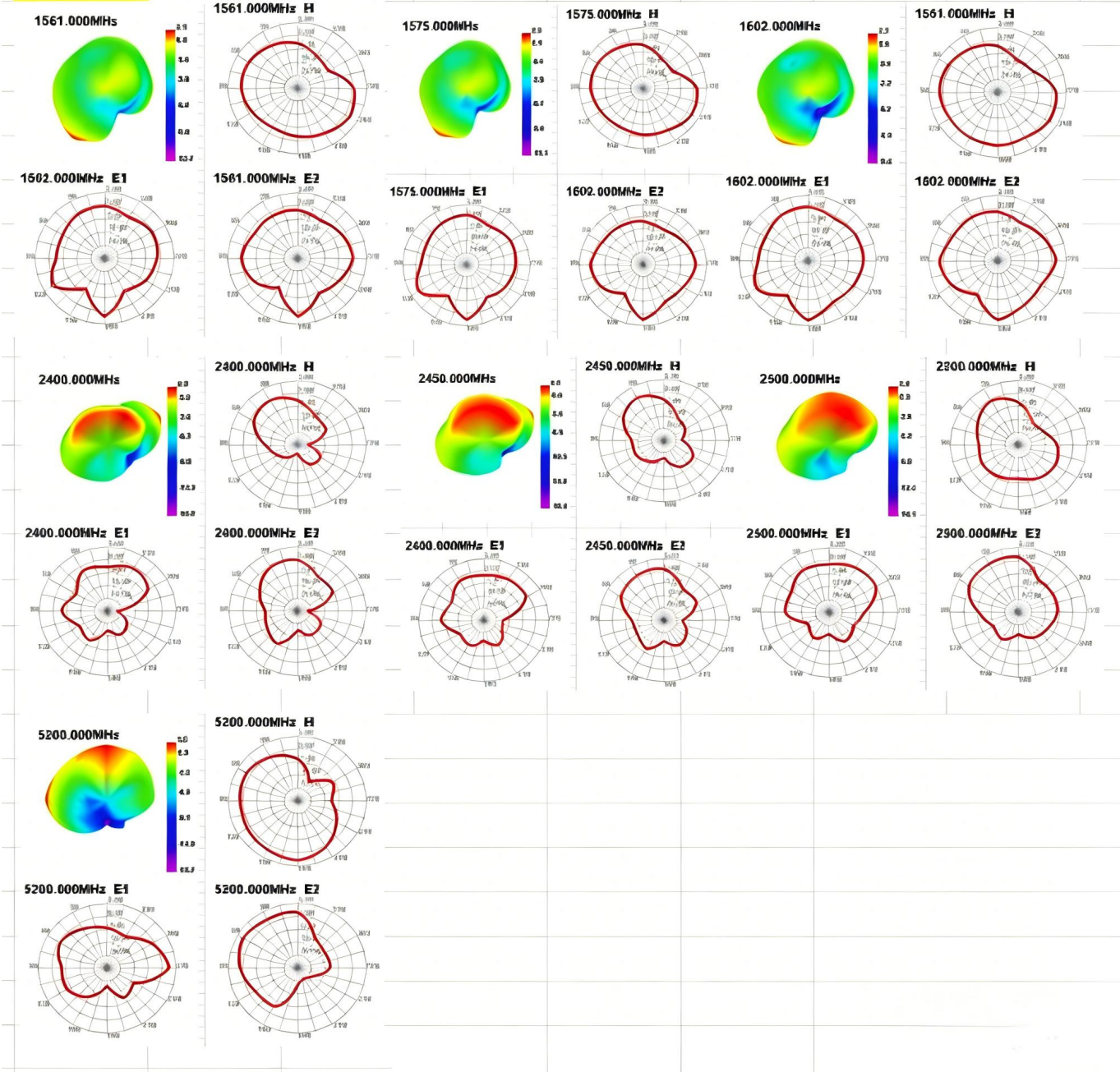
Test Result	802.11A, Wifi 5.8G 54M		
	36	149	161
Frequency (MHz)	5180	5745	5805
TRP (dBm)	12.23	12.16	12.39
TIS (dBm)	-71.01	-71.07	-72.32

下面是 蓝牙测试数据 实测 8 米音乐流畅
Below are the Bluetooth test results: Music played smoothly at a distance of 8 meters.

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方向图





室外测试 40 以上的有 3 个
WIFI 天线要接地
For outdoor tests above
40°C, all three WIFI an-
tennas must be groun-
ded.

5. 总结及其建议：
5.Summary and Recommendations:

以上为天线测试报告，请知悉，有问题保持沟通，谢谢支持！
The above is the antenna test report. Please note that any issues should
be communicated promptly. Thank you for your support!

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