

深圳市亿圣邦科技有限公司

Shenzhen Yishengbang Technology Co., Ltd Antenna Test Report

Customer:晟达智联

Project: P01

Product: WIFI

Report date: 2024-09-24

Prepared by :刘顺

Checked by : 黄震

Approved by : 林美财



Purpose

This report is to measure the performance of SLK for Master Antenna on晟达智联. All measure data are showed below.

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2. Test Result

2.1 WIFI Antenna VSWR

2.2 WIFI Antenna TRP/TIS

2.3 WIFI Antenna Gain/Efficiency/3D DATA

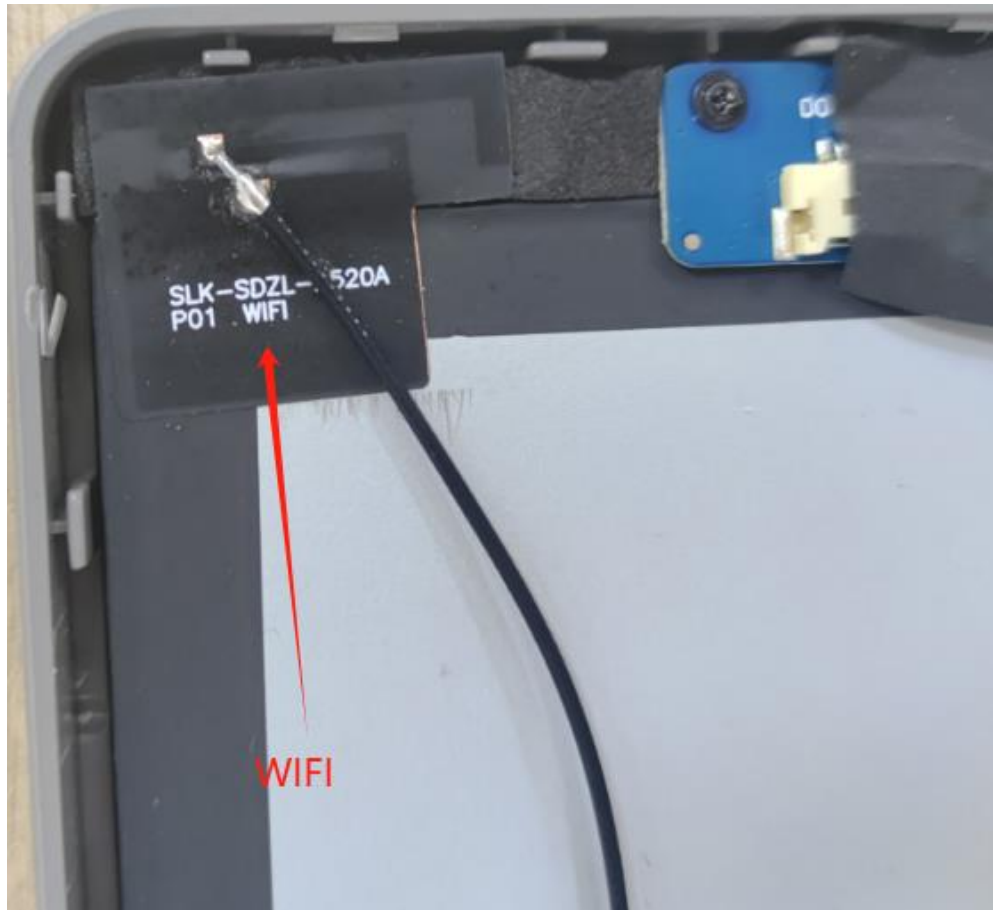
2.4 WIFI/BT throughput test

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1. Product Overview

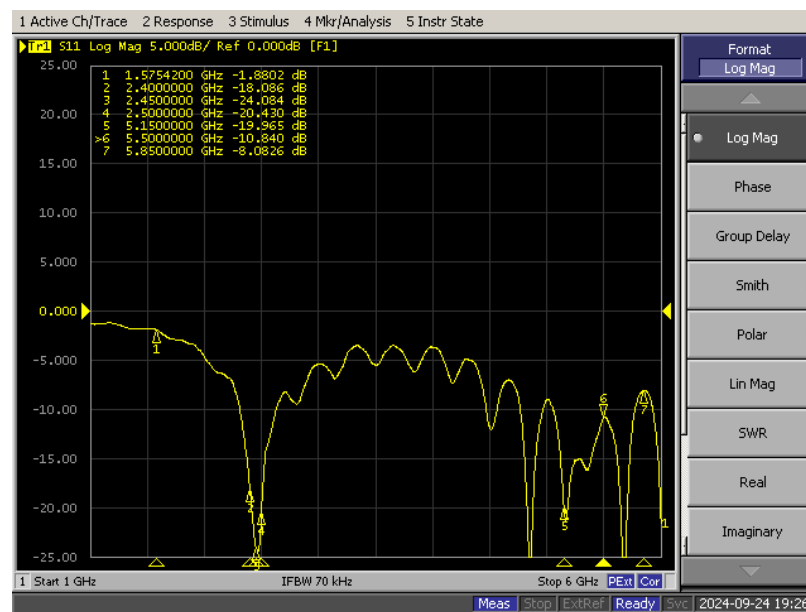
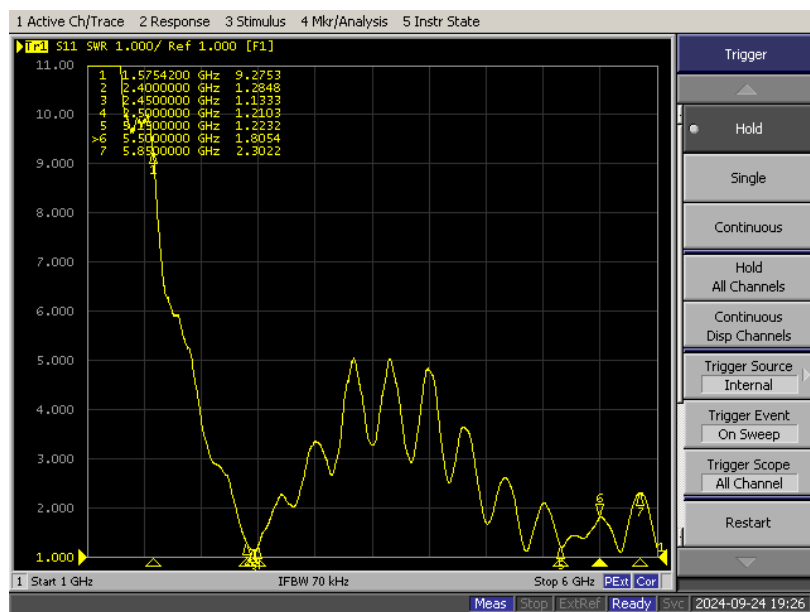


1. Product Overview



2. Test Result

2.1 WIFI Antenna VSWR



2. Test Result

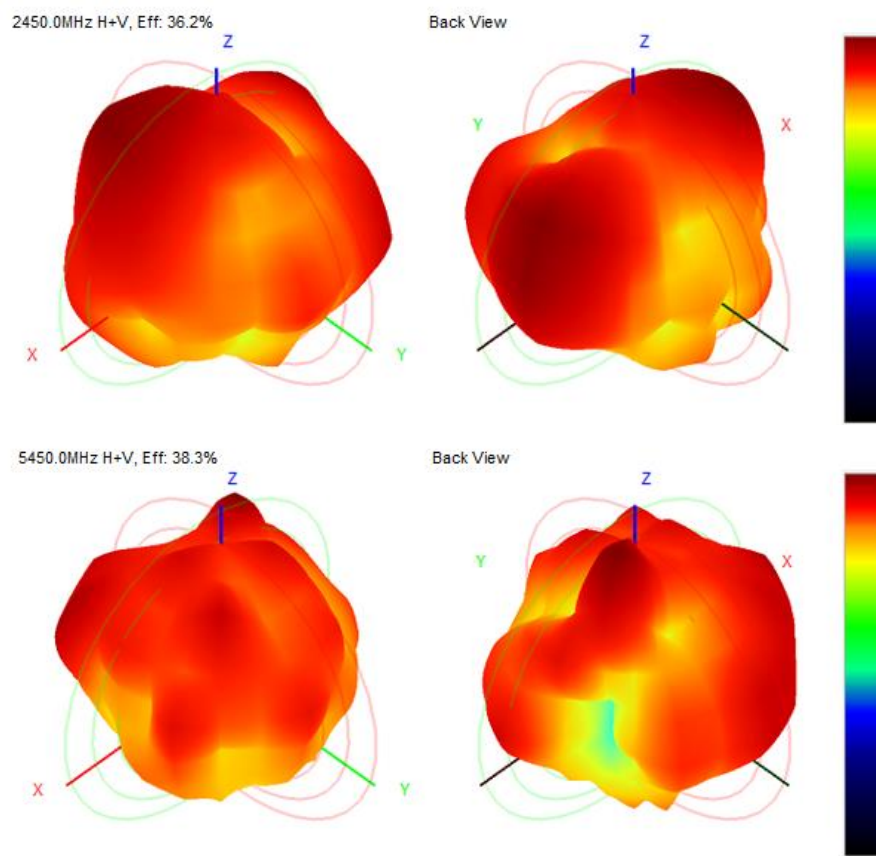
2.2 WIFI Antenna TRP/TIS

WIFI有源测试			
频段	1	6	11
B-TRP-11MBps	12.24	13.45	14.16
B-TIS-11MBps	-81.26	-80.37	-80.33
G-TRP-54MBps	10.14	11.16	12.11
G-TIS-54MBps	-70.69	-70.22	-70.28
N-TRP-MCS7	10.29	11.07	11.98
N-TIS-MCS7	-66.92	-66.31	-66.28
频段	36	149	165
A-TRP-54MBps	9.87	9.16	8.11
A-TIS-54MBps	-71.69	-70.69	-71.42

2. Test Result

2.3 WIFI Antenna Gain/Efficiency/3D DATA

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400	-4.22	1.74	37.78
2410	-4.10	1.99	38.85
2420	-4.28	1.73	37.29
2430	-4.47	1.53	35.67
2440	-4.17	1.95	38.24
2450	-4.41	1.71	36.20
2460	-4.33	1.69	36.90
2470	-4.59	1.34	34.70
2480	-4.63	1.96	34.36
2490	-4.47	1.85	35.68
2500	-4.48	1.86	35.58
5150	-4.27	2.94	37.38
5250	-4.23	2.21	37.72
5450	-4.16	2.36	38.29
5850	-4.02	2.40	39.56



2. Test Result

2.4 WIFI throughput test

ID	Interval	Transfer	Bandwidth
4	2.00-3.00 sec	6.88 MBytes	57.7 Mbits/sec
4	3.00-4.00 sec	7.50 MBytes	62.9 Mbits/sec
4	4.00-5.00 sec	7.12 MBytes	59.8 Mbits/sec
4	5.00-6.00 sec	7.88 MBytes	66.0 Mbits/sec
4	6.00-7.00 sec	6.75 MBytes	56.6 Mbits/sec
4	7.00-8.00 sec	6.62 MBytes	55.6 Mbits/sec
4	8.00-9.00 sec	8.00 MBytes	67.1 Mbits/sec
4	9.00-10.00 sec	7.62 MBytes	64.0 Mbits/sec
4	10.00-11.00 sec	7.38 MBytes	61.8 Mbits/sec
4	11.00-12.00 sec	6.12 MBytes	51.5 Mbits/sec
4	12.00-13.00 sec	7.88 MBytes	66.0 Mbits/sec
4	13.00-14.00 sec	7.62 MBytes	64.0 Mbits/sec
4	14.00-15.00 sec	8.00 MBytes	67.1 Mbits/sec
4	15.00-16.00 sec	8.12 MBytes	68.1 Mbits/sec
4	16.00-17.00 sec	7.25 MBytes	60.9 Mbits/sec
4	17.00-18.00 sec	7.88 MBytes	66.0 Mbits/sec
4	18.00-19.00 sec	8.12 MBytes	68.2 Mbits/sec
4	19.00-20.00 sec	6.75 MBytes	56.6 Mbits/sec
4	20.00-21.00 sec	8.12 MBytes	68.2 Mbits/sec
4	21.00-22.00 sec	8.00 MBytes	67.1 Mbits/sec
4	22.00-23.00 sec	7.50 MBytes	62.9 Mbits/sec
4	23.00-24.00 sec	8.12 MBytes	68.1 Mbits/sec
4	24.00-25.00 sec	7.88 MBytes	66.1 Mbits/sec
4	25.00-26.00 sec	7.25 MBytes	60.9 Mbits/sec
4	26.00-27.00 sec	5.50 MBytes	46.1 Mbits/sec
4	27.00-28.00 sec	7.88 MBytes	66.1 Mbits/sec
4	28.00-29.00 sec	7.12 MBytes	59.7 Mbits/sec
4	29.00-30.00 sec	8.12 MBytes	68.2 Mbits/sec

4	0.00-30.00 sec	224 MBytes	62.8 Mbits/sec
4	0.00-30.00 sec	224 MBytes	62.6 Mbits/sec

perf Done.

2.4G十米下载

ID	Interval	Transfer	Bandwidth
4	2.00-3.00 sec	7.09 MBytes	59.5 Mbits/sec
4	3.00-4.00 sec	7.07 MBytes	59.3 Mbits/sec
4	4.00-5.00 sec	6.95 MBytes	58.3 Mbits/sec
4	5.00-6.00 sec	6.16 MBytes	51.7 Mbits/sec
4	6.00-7.00 sec	6.97 MBytes	58.5 Mbits/sec
4	7.00-8.00 sec	7.29 MBytes	61.1 Mbits/sec
4	8.00-9.00 sec	7.08 MBytes	59.4 Mbits/sec
4	9.00-10.00 sec	6.50 MBytes	54.5 Mbits/sec
4	10.00-11.00 sec	7.31 MBytes	61.3 Mbits/sec
4	11.00-12.00 sec	7.21 MBytes	60.6 Mbits/sec
4	12.00-13.00 sec	6.87 MBytes	57.6 Mbits/sec
4	13.00-14.00 sec	7.19 MBytes	60.3 Mbits/sec
4	14.00-15.00 sec	7.15 MBytes	60.0 Mbits/sec
4	15.00-16.00 sec	5.80 MBytes	48.6 Mbits/sec
4	16.00-17.00 sec	6.00 MBytes	50.3 Mbits/sec
4	17.00-18.00 sec	6.22 MBytes	52.2 Mbits/sec
4	18.00-19.00 sec	4.54 MBytes	38.1 Mbits/sec
4	19.00-20.00 sec	5.50 MBytes	46.1 Mbits/sec
4	20.00-21.00 sec	5.45 MBytes	45.7 Mbits/sec
4	21.00-22.00 sec	6.04 MBytes	50.7 Mbits/sec
4	22.00-23.00 sec	6.62 MBytes	55.6 Mbits/sec
4	23.00-24.00 sec	6.84 MBytes	57.4 Mbits/sec
4	24.00-25.00 sec	5.15 MBytes	43.2 Mbits/sec
4	25.00-26.00 sec	6.39 MBytes	53.6 Mbits/sec
4	26.00-27.00 sec	6.18 MBytes	51.8 Mbits/sec
4	27.00-28.00 sec	6.49 MBytes	54.5 Mbits/sec
4	28.00-29.00 sec	7.07 MBytes	59.3 Mbits/sec
4	29.00-30.00 sec	6.17 MBytes	51.7 Mbits/sec

4	0.00-30.00 sec	194 MBytes	54.3 Mbits/sec
4	0.00-30.00 sec	194 MBytes	54.2 Mbits/sec

perf Done.

2.4G十米上传

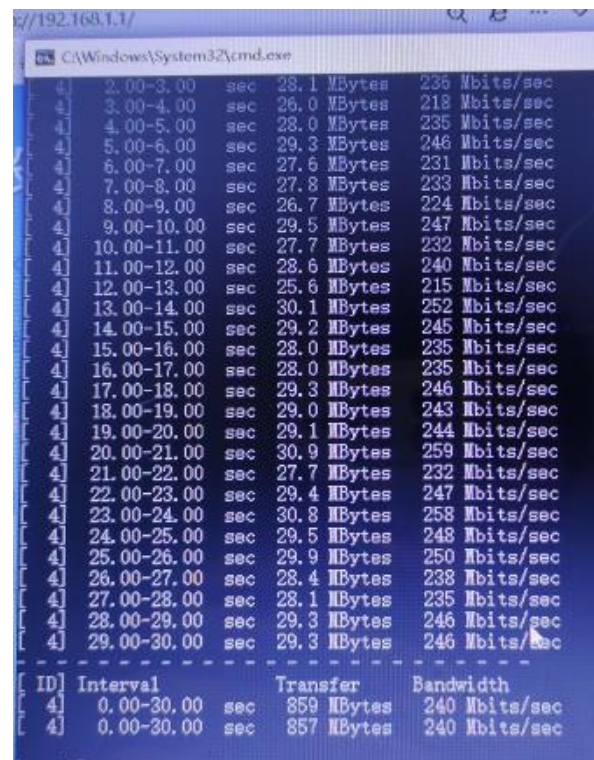
2. Test Result

2.4 WIFI throughput test



[4]	2.00-3.00	sec	31.9 MBytes	267 Mbits/sec
[4]	3.00-4.00	sec	34.1 MBytes	286 Mbits/sec
[4]	4.00-5.00	sec	35.1 MBytes	295 Mbits/sec
[4]	5.00-6.00	sec	36.2 MBytes	304 Mbits/sec
[4]	6.00-7.00	sec	36.1 MBytes	303 Mbits/sec
[4]	7.00-8.00	sec	36.5 MBytes	306 Mbits/sec
[4]	8.00-9.00	sec	37.6 MBytes	315 Mbits/sec
[4]	9.00-10.00	sec	36.8 MBytes	308 Mbits/sec
[4]	10.00-11.00	sec	36.5 MBytes	306 Mbits/sec
[4]	11.00-12.00	sec	37.5 MBytes	314 Mbits/sec
[4]	12.00-13.00	sec	36.8 MBytes	308 Mbits/sec
[4]	13.00-14.00	sec	37.0 MBytes	310 Mbits/sec
[4]	14.00-15.00	sec	35.4 MBytes	297 Mbits/sec
[4]	15.00-16.00	sec	35.6 MBytes	299 Mbits/sec
[4]	16.00-17.00	sec	36.1 MBytes	303 Mbits/sec
[4]	17.00-18.00	sec	36.9 MBytes	309 Mbits/sec
[4]	18.00-19.00	sec	34.9 MBytes	293 Mbits/sec
[4]	19.00-20.00	sec	36.0 MBytes	301 Mbits/sec
[4]	20.00-21.00	sec	36.8 MBytes	309 Mbits/sec
[4]	21.00-22.00	sec	37.2 MBytes	313 Mbits/sec
[4]	22.00-23.00	sec	36.2 MBytes	304 Mbits/sec
[4]	23.00-24.00	sec	36.5 MBytes	306 Mbits/sec
[4]	24.00-25.00	sec	35.9 MBytes	301 Mbits/sec
[4]	25.00-26.00	sec	36.8 MBytes	308 Mbits/sec
[4]	26.00-27.00	sec	36.1 MBytes	303 Mbits/sec
[4]	27.00-28.00	sec	36.4 MBytes	305 Mbits/sec
[4]	28.00-29.00	sec	35.4 MBytes	297 Mbits/sec
[4]	29.00-30.00	sec	36.8 MBytes	308 Mbits/sec
[ID]	Interval		Transfer	Bandwidth
[4]	0.00-30.00	sec	1.06 GBytes	303 Mbits/sec
[4]	0.00-30.00	sec	1.06 GBytes	303 Mbits/sec

5G十米下载



[4]	2.00-3.00	sec	28.1 MBytes	236 Mbits/sec
[4]	3.00-4.00	sec	26.0 MBytes	218 Mbits/sec
[4]	4.00-5.00	sec	28.0 MBytes	235 Mbits/sec
[4]	5.00-6.00	sec	29.3 MBytes	246 Mbits/sec
[4]	6.00-7.00	sec	27.6 MBytes	231 Mbits/sec
[4]	7.00-8.00	sec	27.8 MBytes	233 Mbits/sec
[4]	8.00-9.00	sec	26.7 MBytes	224 Mbits/sec
[4]	9.00-10.00	sec	29.5 MBytes	247 Mbits/sec
[4]	10.00-11.00	sec	27.7 MBytes	232 Mbits/sec
[4]	11.00-12.00	sec	28.6 MBytes	240 Mbits/sec
[4]	12.00-13.00	sec	25.6 MBytes	215 Mbits/sec
[4]	13.00-14.00	sec	30.1 MBytes	252 Mbits/sec
[4]	14.00-15.00	sec	29.2 MBytes	245 Mbits/sec
[4]	15.00-16.00	sec	28.0 MBytes	235 Mbits/sec
[4]	16.00-17.00	sec	28.0 MBytes	235 Mbits/sec
[4]	17.00-18.00	sec	29.3 MBytes	246 Mbits/sec
[4]	18.00-19.00	sec	29.0 MBytes	243 Mbits/sec
[4]	19.00-20.00	sec	29.1 MBytes	244 Mbits/sec
[4]	20.00-21.00	sec	30.9 MBytes	259 Mbits/sec
[4]	21.00-22.00	sec	27.7 MBytes	232 Mbits/sec
[4]	22.00-23.00	sec	29.4 MBytes	247 Mbits/sec
[4]	23.00-24.00	sec	30.8 MBytes	258 Mbits/sec
[4]	24.00-25.00	sec	29.5 MBytes	248 Mbits/sec
[4]	25.00-26.00	sec	29.9 MBytes	250 Mbits/sec
[4]	26.00-27.00	sec	28.4 MBytes	238 Mbits/sec
[4]	27.00-28.00	sec	28.1 MBytes	235 Mbits/sec
[4]	28.00-29.00	sec	29.3 MBytes	246 Mbits/sec
[4]	29.00-30.00	sec	29.3 MBytes	246 Mbits/sec
[ID]	Interval		Transfer	Bandwidth
[4]	0.00-30.00	sec	859 MBytes	240 Mbits/sec
[4]	0.00-30.00	sec	857 MBytes	240 Mbits/sec

5G十米上传

3. Conclusions

谢谢！