

深圳市亿圣邦科技有限公司

Shenzhen Yishengbang Technology Co., Ltd. Antenna Test Report

Customer: 卓创

Project: N156MU3-AN168

Product: WIFI Antenna—FPC

Report date: 2024-2-20

Prepared by : 陈仕联

Checked by : Eason Huang

Approved by :

Purpose

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

Content

1. Product Overview

2. Test Result

2.1 WIFI MAIN/AUX Antenna VSWR

2.2 WIFI MAIN/AUX Antenna Gain/Efficiency/3D DATA

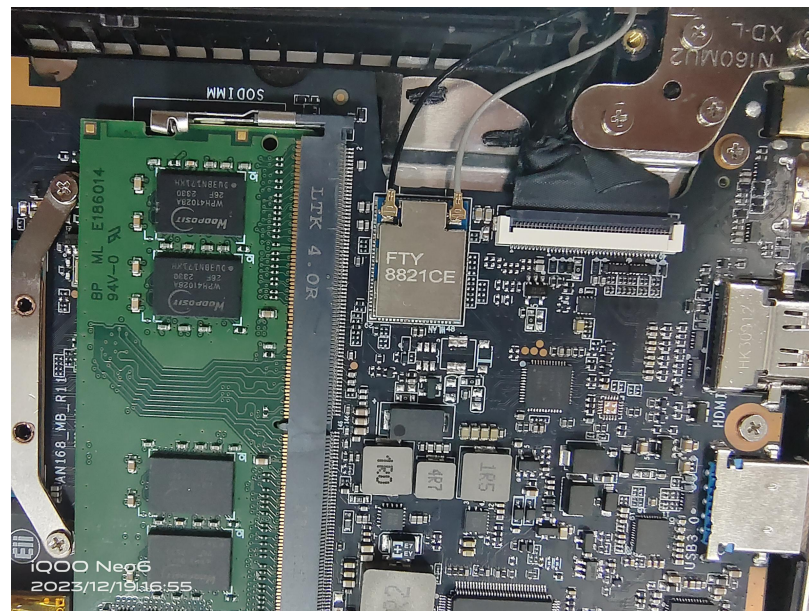
2.3 WIFI throughput test

3. Conclusions

1. Product Overview



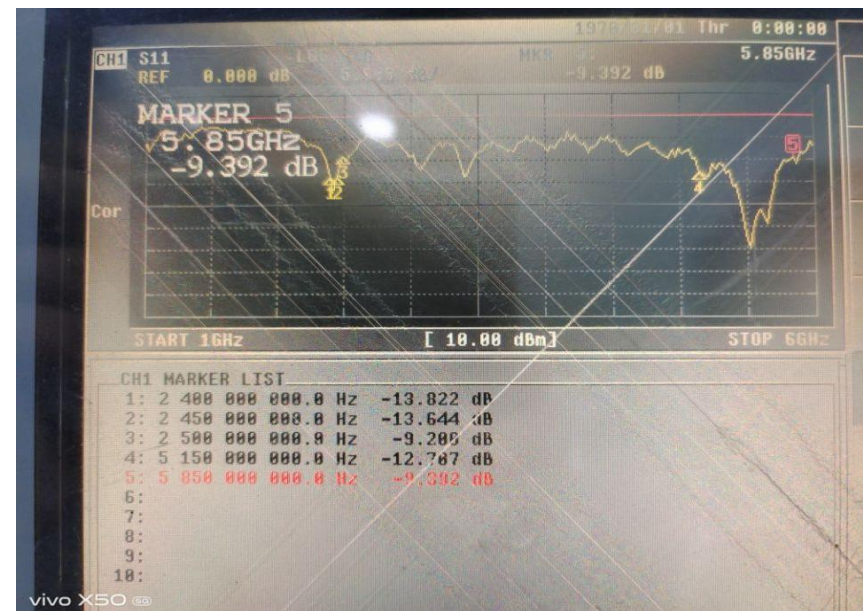
WIFI分集天线



WIFI主天线

2. Test Result

2.1 WIFI MAIN Antenna VSWR/S11



2. Test Result

2.1 WIFI AUX Antenna VSWR/S11



2. Test Result

2.2 WIFI MAIN Antenna Gain/Efficiency/3D DATA

Frequency(MHz)	Efficiency (%)	AverageGain(dB)	Peak GAIN (dBi)
2400	30.01	-5.23	0.51
2410	31.99	-4.95	1.04
2420	31.1	-5.07	-0.51
2430	33.54	-4.74	1.09
2440	31.86	-4.97	0.32
2450	33.37	-4.77	0.84
2460	32.63	-4.86	0.84
2470	32.73	-4.85	0.98
2480	33.94	-4.69	1.26
2490	34.54	-4.62	1.17
2500	33.67	-4.73	1.13
5150	37.8	-4.23	0.97
5350	36.82	-4.34	1.93
5550	41.95	-3.77	2.66
5750	35.31	-4.52	1.09
5850	34.77	-4.59	0.09

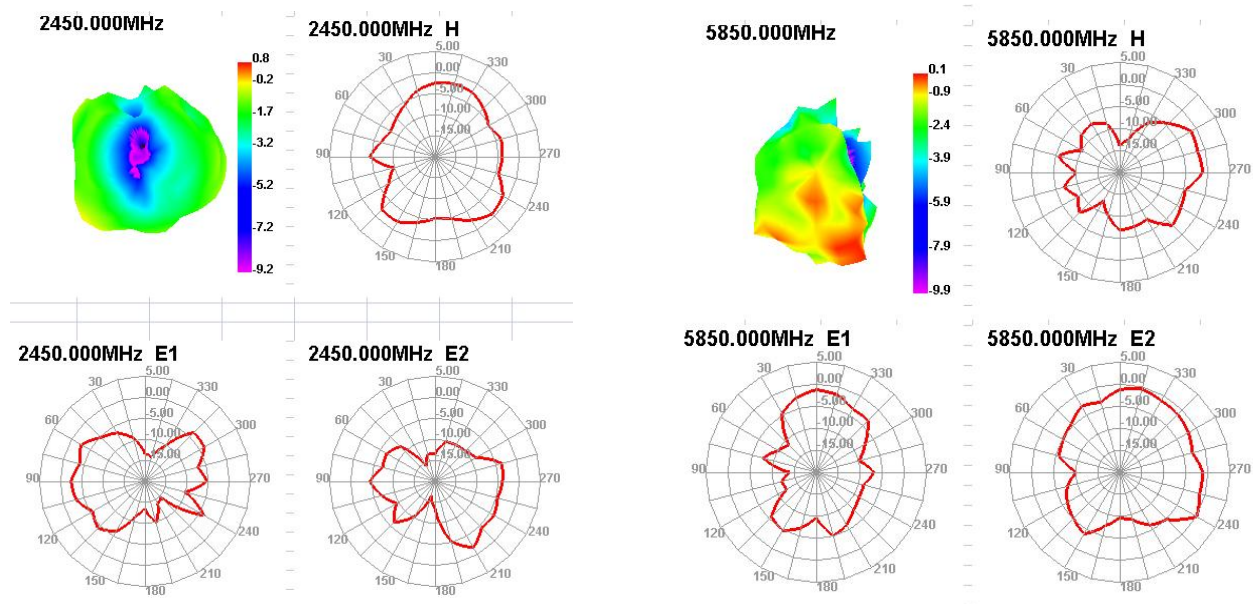
2. Test Result

2.2 WIFI AUX Antenna Gain/Efficiency/3D DATA

Frequency(MHz)	Efficiency (%)	Average Gain(dB)	Peak GAIN (dBi)
2400	34.06	-4.68	-0.64
2410	34.29	-4.65	-0.6
2420	35.23	-4.53	-0.32
2430	36.96	-4.32	0.02
2440	35.21	-4.53	0.01
2450	38.27	-4.17	0.5
2460	32.34	-4.9	-0.21
2470	35.3	-4.52	-0.02
2480	34.23	-4.66	-0.44
2490	36.74	-4.35	-0.49
2500	33	-4.82	-1.09
5150	30.62	-5.14	-0.59
5350	30.32	-5.18	0.49
5550	32.96	-4.82	0.56
5750	31.28	-5.05	-0.05
5850	29.56	-5.29	0.13

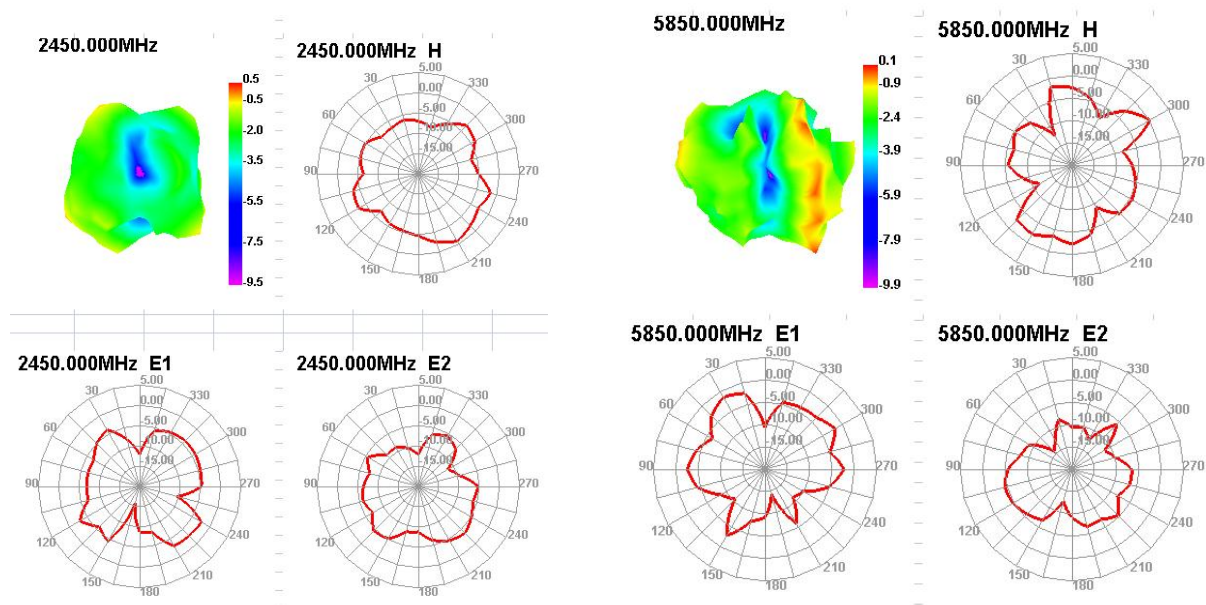
2. Test Result

2.2 WIFI MAIN Antenna Gain/Efficiency/3D DATA



2. Test Result

2.2 WIFI AUX Antenna Gain/Efficiency/3D DATA



2. Test Result

2.3 WIFI throughput test

ID	Interval	Transfer	Bandwidth
[276]	4.0-5.0 sec	12.6 MBytes	106 Mbits/sec
[276]	5.0-6.0 sec	12.0 MBytes	101 Mbits/sec
[276]	6.0-7.0 sec	11.7 MBytes	98.0 Mbits/sec
[276]	7.0-8.0 sec	11.2 MBytes	93.7 Mbits/sec
[276]	8.0-9.0 sec	11.5 MBytes	96.2 Mbits/sec
[276]	9.0-10.0 sec	12.6 MBytes	105 Mbits/sec
[276]	10.0-11.0 sec	12.6 MBytes	105 Mbits/sec
[276]	11.0-12.0 sec	11.6 MBytes	97.5 Mbits/sec
[276]	12.0-13.0 sec	12.4 MBytes	104 Mbits/sec
[276]	13.0-14.0 sec	12.4 MBytes	104 Mbits/sec
[276]	14.0-15.0 sec	13.0 MBytes	109 Mbits/sec
[276]	15.0-16.0 sec	12.8 MBytes	108 Mbits/sec
[276]	16.0-17.0 sec	12.3 MBytes	104 Mbits/sec
[276]	17.0-18.0 sec	13.0 MBytes	109 Mbits/sec
[276]	18.0-19.0 sec	11.2 MBytes	93.9 Mbits/sec
[276]	19.0-20.0 sec	13.0 MBytes	109 Mbits/sec
[ID]	Interval	Transfer	Bandwidth
[276]	20.0-21.0 sec	13.1 MBytes	110 Mbits/sec
[276]	21.0-22.0 sec	13.0 MBytes	109 Mbits/sec
[276]	22.0-23.0 sec	12.7 MBytes	107 Mbits/sec
[276]	23.0-24.0 sec	12.9 MBytes	108 Mbits/sec
[276]	24.0-25.0 sec	12.9 MBytes	108 Mbits/sec
[276]	25.0-26.0 sec	12.9 MBytes	108 Mbits/sec
[276]	26.0-27.0 sec	12.8 MBytes	107 Mbits/sec
[276]	27.0-28.0 sec	12.7 MBytes	106 Mbits/sec
[276]	28.0-29.0 sec	12.7 MBytes	106 Mbits/sec
[276]	29.0-30.0 sec	12.8 MBytes	107 Mbits/sec
[276]	0.0-30.1 sec	372 MBytes	104 Mbits/sec

ID	Interval	Transfer	Bandwidth
[364]	5.0-6.0 sec	10.3 MBytes	86.2 Mbits/sec
[364]	6.0-7.0 sec	11.3 MBytes	94.8 Mbits/sec
[364]	7.0-8.0 sec	10.5 MBytes	88.4 Mbits/sec
[364]	8.0-9.0 sec	11.3 MBytes	94.4 Mbits/sec
[364]	9.0-10.0 sec	10.8 MBytes	90.6 Mbits/sec
[364]	10.0-11.0 sec	10.2 MBytes	85.4 Mbits/sec
[364]	11.0-12.0 sec	11.0 MBytes	91.9 Mbits/sec
[364]	12.0-13.0 sec	11.0 MBytes	92.5 Mbits/sec
[364]	13.0-14.0 sec	10.5 MBytes	88.2 Mbits/sec
[364]	14.0-15.0 sec	11.4 MBytes	95.2 Mbits/sec
[364]	15.0-16.0 sec	11.4 MBytes	95.9 Mbits/sec
[364]	16.0-17.0 sec	9.99 MBytes	83.8 Mbits/sec
[364]	17.0-18.0 sec	11.3 MBytes	95.2 Mbits/sec
[364]	18.0-19.0 sec	10.9 MBytes	91.6 Mbits/sec
[364]	19.0-20.0 sec	10.8 MBytes	90.6 Mbits/sec
[ID]	Interval	Transfer	Bandwidth
[364]	20.0-21.0 sec	10.8 MBytes	90.8 Mbits/sec
[364]	21.0-22.0 sec	11.1 MBytes	92.8 Mbits/sec
[364]	22.0-23.0 sec	9.74 MBytes	81.7 Mbits/sec
[364]	23.0-24.0 sec	10.0 MBytes	84.0 Mbits/sec
[364]	24.0-25.0 sec	9.41 MBytes	79.0 Mbits/sec
[364]	25.0-26.0 sec	10.6 MBytes	88.5 Mbits/sec
[364]	26.0-27.0 sec	11.0 MBytes	92.5 Mbits/sec
[364]	27.0-28.0 sec	10.6 MBytes	89.1 Mbits/sec
[364]	28.0-29.0 sec	11.0 MBytes	92.6 Mbits/sec
[364]	29.0-30.0 sec	11.2 MBytes	94.1 Mbits/sec
[364]	0.0-30.1 sec	316 MBytes	88.1 Mbits/sec

2.4G throughput test -10 m download

2.4G throughput test -10 m upload

2. Test Result

2.3 WIFI throughput test

ID	Interval	Transfer	Bandwidth
[276]	4.0- 5.0 sec	21.7 MBytes	182 Mbits/sec
[276]	5.0- 6.0 sec	22.4 MBytes	187 Mbits/sec
[276]	6.0- 7.0 sec	22.7 MBytes	191 Mbits/sec
[276]	7.0- 8.0 sec	20.9 MBytes	175 Mbits/sec
[276]	8.0- 9.0 sec	21.4 MBytes	180 Mbits/sec
[276]	9.0-10.0 sec	22.6 MBytes	189 Mbits/sec
[276]	10.0-11.0 sec	22.3 MBytes	187 Mbits/sec
[276]	11.0-12.0 sec	22.8 MBytes	191 Mbits/sec
[276]	12.0-13.0 sec	23.1 MBytes	193 Mbits/sec
[276]	13.0-14.0 sec	22.8 MBytes	191 Mbits/sec
[276]	14.0-15.0 sec	23.9 MBytes	201 Mbits/sec
[276]	15.0-16.0 sec	23.8 MBytes	200 Mbits/sec
[276]	16.0-17.0 sec	23.3 MBytes	195 Mbits/sec
[276]	17.0-18.0 sec	22.3 MBytes	187 Mbits/sec
[276]	18.0-19.0 sec	21.7 MBytes	182 Mbits/sec
[276]	19.0-20.0 sec	24.2 MBytes	203 Mbits/sec
[ID]	Interval	Transfer	Bandwidth
[276]	20.0-21.0 sec	22.4 MBytes	188 Mbits/sec
[276]	21.0-22.0 sec	23.4 MBytes	196 Mbits/sec
[276]	22.0-23.0 sec	19.8 MBytes	166 Mbits/sec
[276]	23.0-24.0 sec	24.2 MBytes	203 Mbits/sec
[276]	24.0-25.0 sec	22.5 MBytes	189 Mbits/sec
[276]	25.0-26.0 sec	22.3 MBytes	187 Mbits/sec
[276]	26.0-27.0 sec	20.4 MBytes	171 Mbits/sec
[276]	27.0-28.0 sec	22.7 MBytes	191 Mbits/sec
[276]	28.0-29.0 sec	22.4 MBytes	188 Mbits/sec
[276]	29.0-30.0 sec	21.4 MBytes	180 Mbits/sec
[276]	0.0-30.0 sec	658 MBytes	184 Mbits/sec

C:\>IPERF -c 192.168.1.8 -t 30 -i 1 -w 1m

iQOO Neo6
2023/12/18 19:56
zc-5.8g-s

5G throughput test -10 m
download

ID	Interval	Transfer	Bandwidth
[364]	5.0- 6.0 sec	20.3 MBytes	170 Mbits/sec
[364]	6.0- 7.0 sec	21.0 MBytes	176 Mbits/sec
[364]	7.0- 8.0 sec	21.1 MBytes	177 Mbits/sec
[364]	8.0- 9.0 sec	22.6 MBytes	190 Mbits/sec
[364]	9.0-10.0 sec	22.6 MBytes	190 Mbits/sec
[364]	10.0-11.0 sec	22.4 MBytes	188 Mbits/sec
[364]	11.0-12.0 sec	22.0 MBytes	184 Mbits/sec
[364]	12.0-13.0 sec	21.6 MBytes	182 Mbits/sec
[364]	13.0-14.0 sec	22.4 MBytes	187 Mbits/sec
[364]	14.0-15.0 sec	22.2 MBytes	186 Mbits/sec
[364]	15.0-16.0 sec	21.6 MBytes	182 Mbits/sec
[364]	16.0-17.0 sec	22.6 MBytes	190 Mbits/sec
[364]	17.0-18.0 sec	21.5 MBytes	181 Mbits/sec
[364]	18.0-19.0 sec	21.9 MBytes	184 Mbits/sec
[364]	19.0-20.0 sec	21.9 MBytes	184 Mbits/sec
[ID]	Interval	Transfer	Bandwidth
[364]	20.0-21.0 sec	22.5 MBytes	189 Mbits/sec
[364]	21.0-22.0 sec	21.6 MBytes	181 Mbits/sec
[364]	22.0-23.0 sec	22.4 MBytes	188 Mbits/sec
[364]	23.0-24.0 sec	22.7 MBytes	191 Mbits/sec
[364]	24.0-25.0 sec	22.5 MBytes	189 Mbits/sec
[364]	25.0-26.0 sec	21.4 MBytes	179 Mbits/sec
[364]	26.0-27.0 sec	21.4 MBytes	179 Mbits/sec
[364]	27.0-28.0 sec	21.8 MBytes	183 Mbits/sec
[364]	28.0-29.0 sec	21.6 MBytes	181 Mbits/sec
[364]	29.0-30.0 sec	22.0 MBytes	184 Mbits/sec
[364]	0.0-30.1 sec	648 MBytes	181 Mbits/sec

C:\>

zc-5.8g-s

5G throughput test -10 m upload

3. Dimension



Length 92mm and Width 9mm



4. Conclusions

Thank you