

Shenzhen Yi Sheng Bang technology Co., LTD

Shenzhen Yi Sheng Bang technology Co., LTD Antenna Test Report

Customer: 艾普达

Project: T1085M4LE

Product: W/B/G+LTE Antenna—FPC

Report date: 2025-3-17

Prepared by :Chen Shilian

Checked by :Eason Huang

Approved by :

Supplier name: Shenzhen Yishengbang Technology Co., LTD

Supplier Address: 101, Building C, Shenzhen Qianwan Hard Technology
Industrial Park, Bao 'an District, Shenzhen

Tel: 18025305599 Tel: 1866629910

Purpose

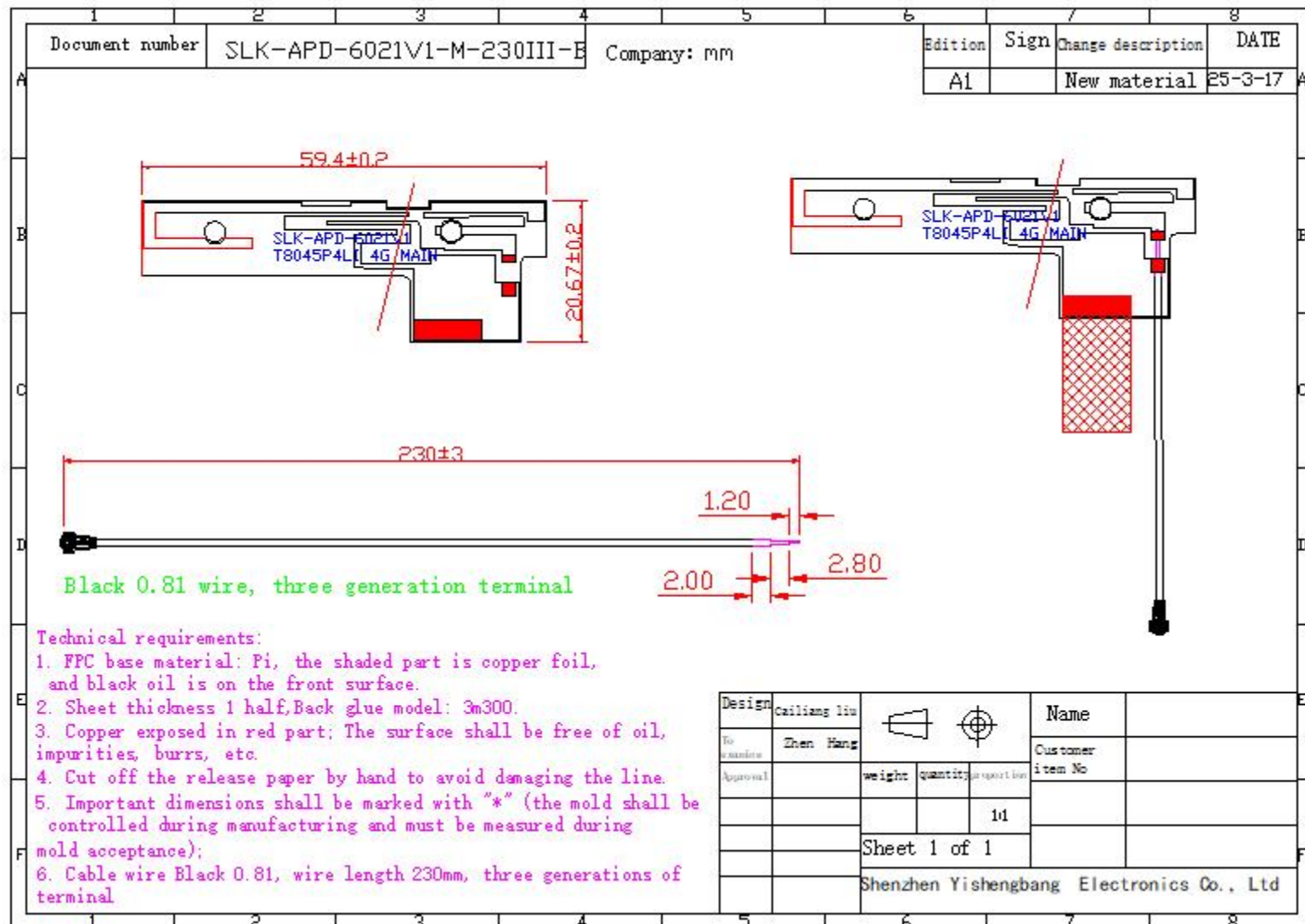
This report is to measure the performance of SLK for Master Antenna on艾普达. All measure data are showed below.

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2. Test Result
 - 2.1 WIFI+GPS Antenna VSWR/S11
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1. Product Overview & Dimension



1. Product Overview & Dimension

Document number	SLK-APD-1408A	Company: MM	Edition	Sign	change description	DATE
			A1		New material	25-3-17

13.75±0.2

7.6±0.2

SLK-APD-1408A
TS040P41-4S-AUX

Technical requirements:

1. FPC base material: Pi, the shaded part is copper foil, and black oil is on the front surface.
2. Sheet thickness 1 half, Back glue model: 3m300.
3. Copper exposed in red part: The surface shall be free of oil, impurities, burrs, etc.
4. Cut off the release paper by hand to avoid damaging the line.
5. Important dimensions shall be marked with "*" (the mold shall be controlled during manufacturing and must be measured during mold acceptance);

Design	Cailiang Liu			Name	
In examine	Zhen Heng			Customer item No	
Approval		weight	quantity	proportion	
				l1	
		Sheet 1 of 1			
		Shenzhen Yishengbang Electronics Co., Ltd			

1. Product Overview & Dimension

1	2	3	4	5	6	7	8		
Document number		SLK-APD-1416		Company: mm		Edition	Sign	Change description	DATE
						A1		New material	25-3-17

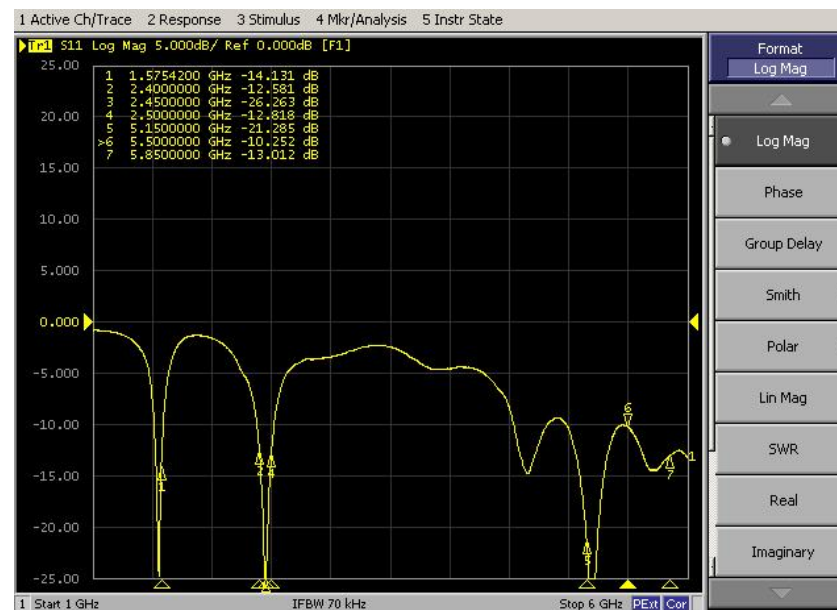
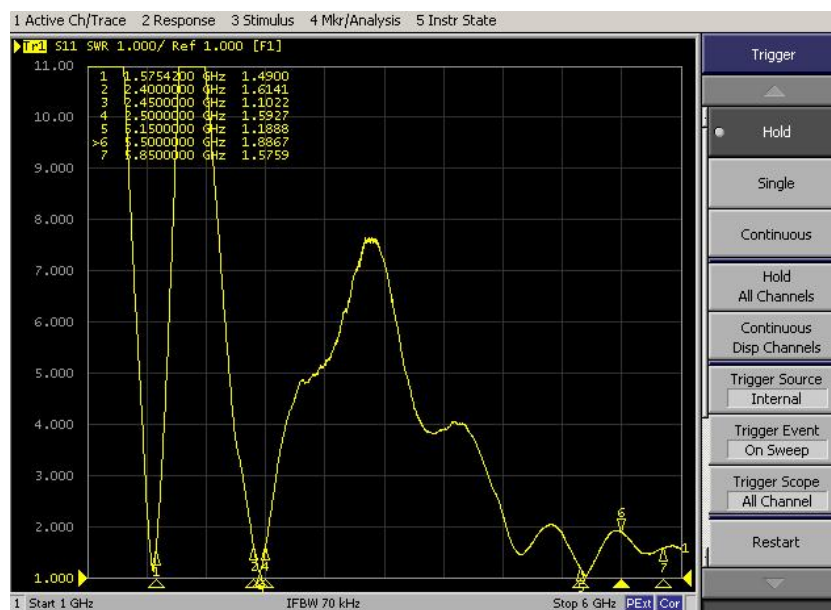
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Design	Cailliang Liu			Name	
To	Zhen Hang			Customer item No	
Approval			weight	quantity	operation
					11
	Sheet 1 of 1				
Shenzhen Yishengbang Electronics Co., Ltd					

2. Test Result

2.1 WIFI+GPS Antenna VSWR/S11



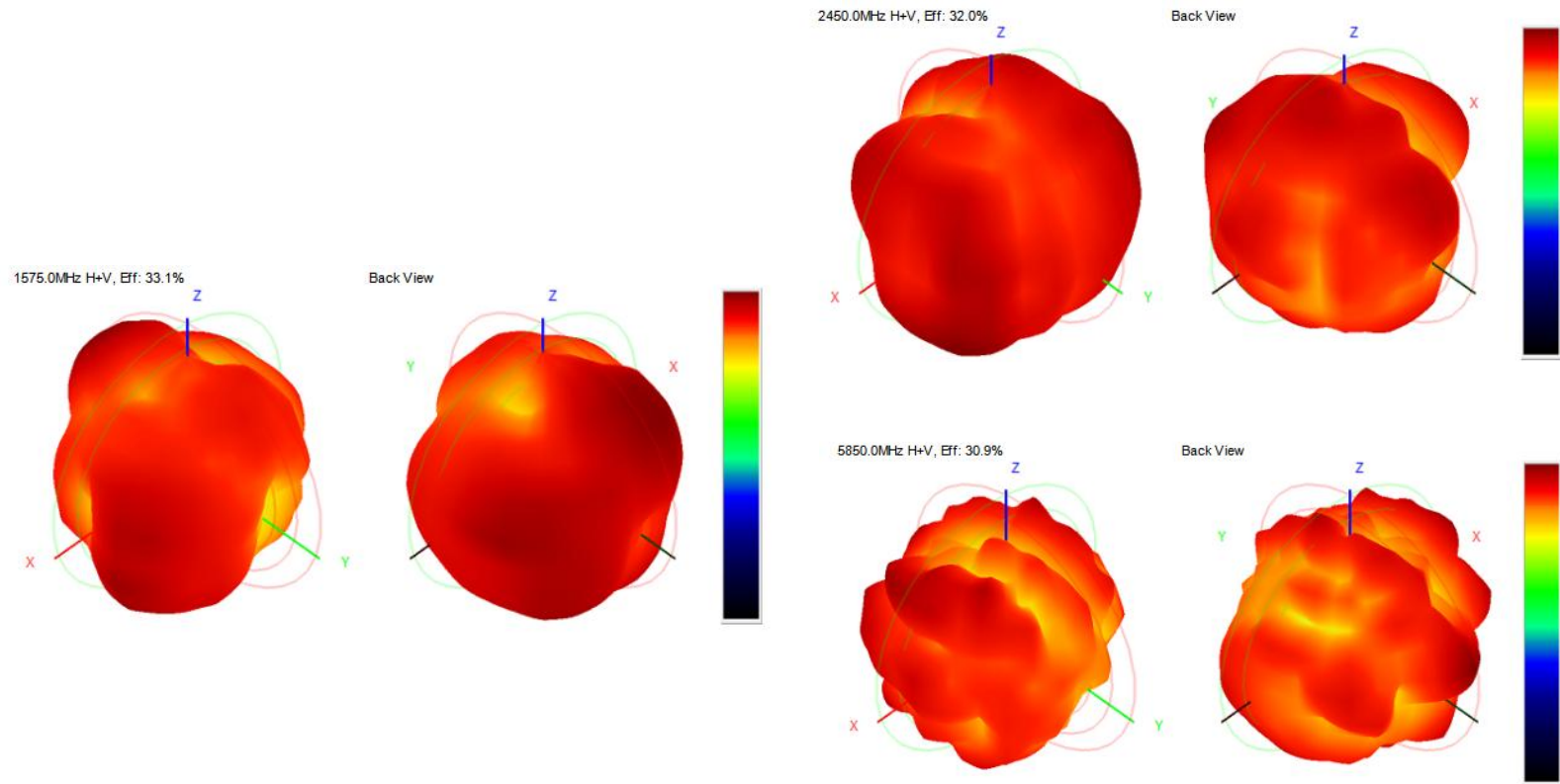
2. Test Result

2.2 WIFI+GPS Antenna Gain/Efficiency/3D DATE

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
1570.0	-4.21	0.59	34.94
1575.0	-4.19	0.35	35.07
1580.0	-4.23	0.23	34.80
2400.0	-4.40	-0.14	32.33
2410.0	-4.01	0.19	34.74
2420.0	-4.06	0.26	34.25
2430.0	-4.19	0.14	33.13
2440.0	-4.29	-0.08	32.27
2450.0	-4.44	-0.16	31.96
2460.0	-4.26	0.07	32.48
2470.0	-4.20	0.11	33.00
2480.0	-4.11	-0.06	33.83
2490.0	-4.31	-0.29	32.02
2500.0	-4.29	-0.28	32.27
5150.0	-5.20	-0.32	30.23
5350.0	-5.32	-0.15	29.40
5550.0	-5.08	0.87	31.01
5750.0	-5.22	1.34	30.05
5850.0	-5.10	0.26	30.87

2. Test Result

2.2 WIFI+GPS Antenna Gain/Efficiency/3D DATE



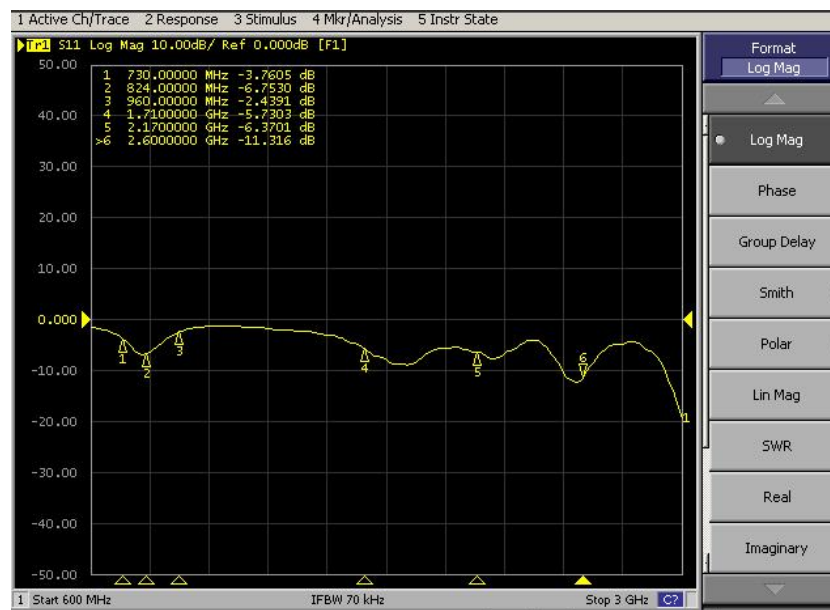
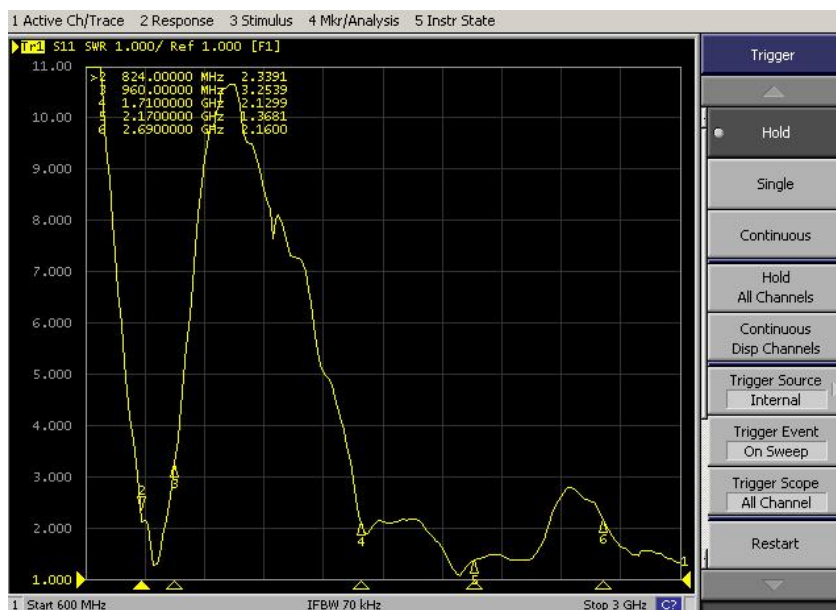
2. Test Result

2.3 GPS practical Test



3. Test Result

3.1 LTE MAIN Antenna VSWR/S11



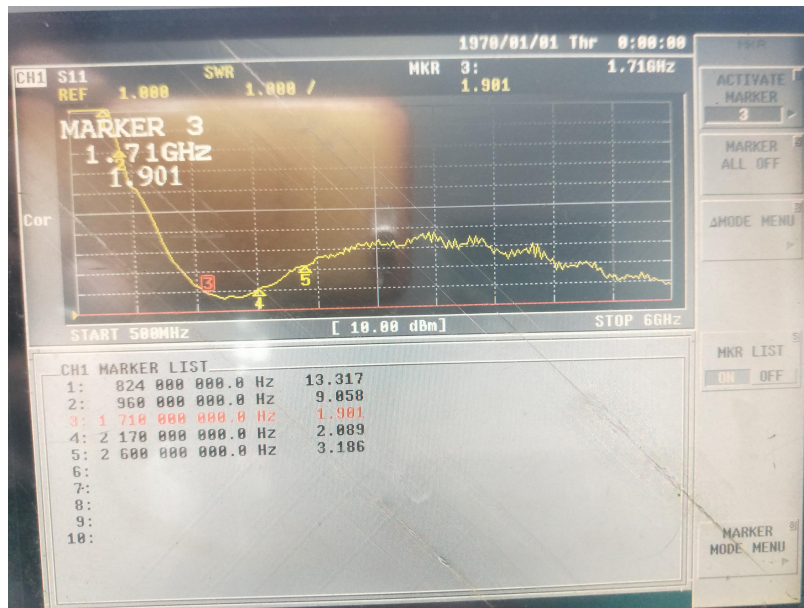
3. Test Result

3.3 LTE Antenna TIS/TRP

2G频段	LTE-L	LTE-M	LTE-R	TIS	增益(dbi)
GSM-850	26.32	25.89	25.49	-102.47	0.8
GSM-900	25.92	25.55	25.31	-102.41	0.9
DCS-1800	23.79	24.05	24.32	-102.11	1.1
PCS-1900	23.82	24.15	24.52	-102.59	1.3
3G频段	LTE-L	LTE-M	LTE-R	TIS	增益(dbi)
WCDMA-B1	17.74	17.82	18.06	-103.45	1.3
WCDMA-B2	17.66	17.59	18.23	-103.25	1.2
WCDMA-B4	16.56	16.83	17.16	-103.49	1.1
WCDMA-B5	16.23	16.48	16.72	-102.83	0.8
WCDMA-B8	16.55	16.83	16.12	-102.75	0.9
4G频段	LTE-L	LTE-M	LTE-R	TIS	增益(dbi)
LTE-B1	17.32	17.55	17.49	-90.47	1.3
LTE-B2	17.65	17.76	17.64	-90.62	1.2
LTE-B3	16.82	17.07	17.23	-91.45	1.1
LTE-B4	16.76	16.88	17.56	-90.22	1.1
LTE-B5	16.68	16.95	17.16	-89.37	0.8
LTE-B7	17.09	17.22	17.35	-90.55	1.6
LTE-B8	17.11	16.83	17.09	-90.48	0.9
LTE-B12	13.37	13.92	14.64	-88.46	0.7
LTE-B13	16.22	16.48	16.29	-89.47	0.7
LTE-B17	14.05	14.23	14.33	-89.07	0.7
LTE-B20	16.48	16.79	17.03	-89.41	0.8
LTE-B28	13.79	14.22	14.36	-88.59	0.7
LTE-B66	16.79	16.88	17.34	-89.45	1.1
LTE-B38	16.49	16.82	17.46	-90.47	1.5
LTE-B40	16.59	16.33	16.74	-89.61	1.4
LTE-B41		16.78		-89.68	1.6

4. Test Result

4.1 LTE AUX Antenna VSWR/S11



5. Conclusions



As shown in the picture:

- 1 Wrap the screen line with a conductive cloth to shield interference processing**
- 2. Pull a conductive cloth over the shielding cover of the mainboard and ground the screen**



5. Conclusions

Thank you