

A wide-angle, nighttime photograph of a city skyline across a river. The city lights are reflected in the water, and a bridge with blue lights spans the river. The sky is a deep blue with some light trails.

科技成就梦想

TECHNOLOGY ACHIEVES THE DREAM

维力谷无线技术股份有限公司

MIFI项目测试报告

Antenna Passive Test Report

——以客户为中心，以产品求发展，追求卓越



测试件

- 项目名: MIFI
- 天线需求: LTE/DIV/WIFI
- 天线频段: LTE: B4/B28
- WCDMA: B2/B8
- 天线频率: LTE: 790-960MHz/1710-2690MHz
DIV:1800-2690
WIFI:2400-2500MHz

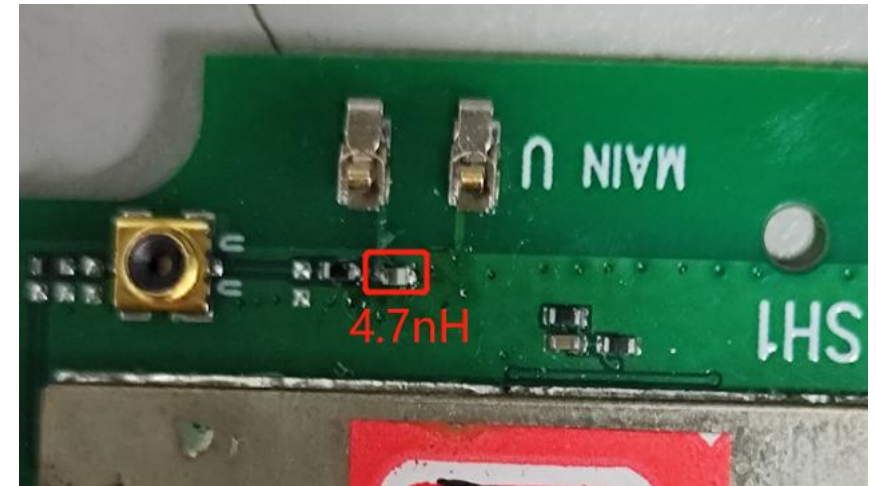
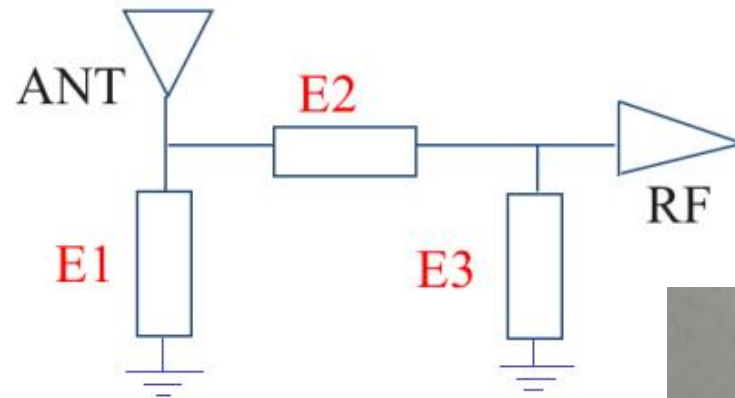


LTE调试数据

◆ 1、LTE天线部分

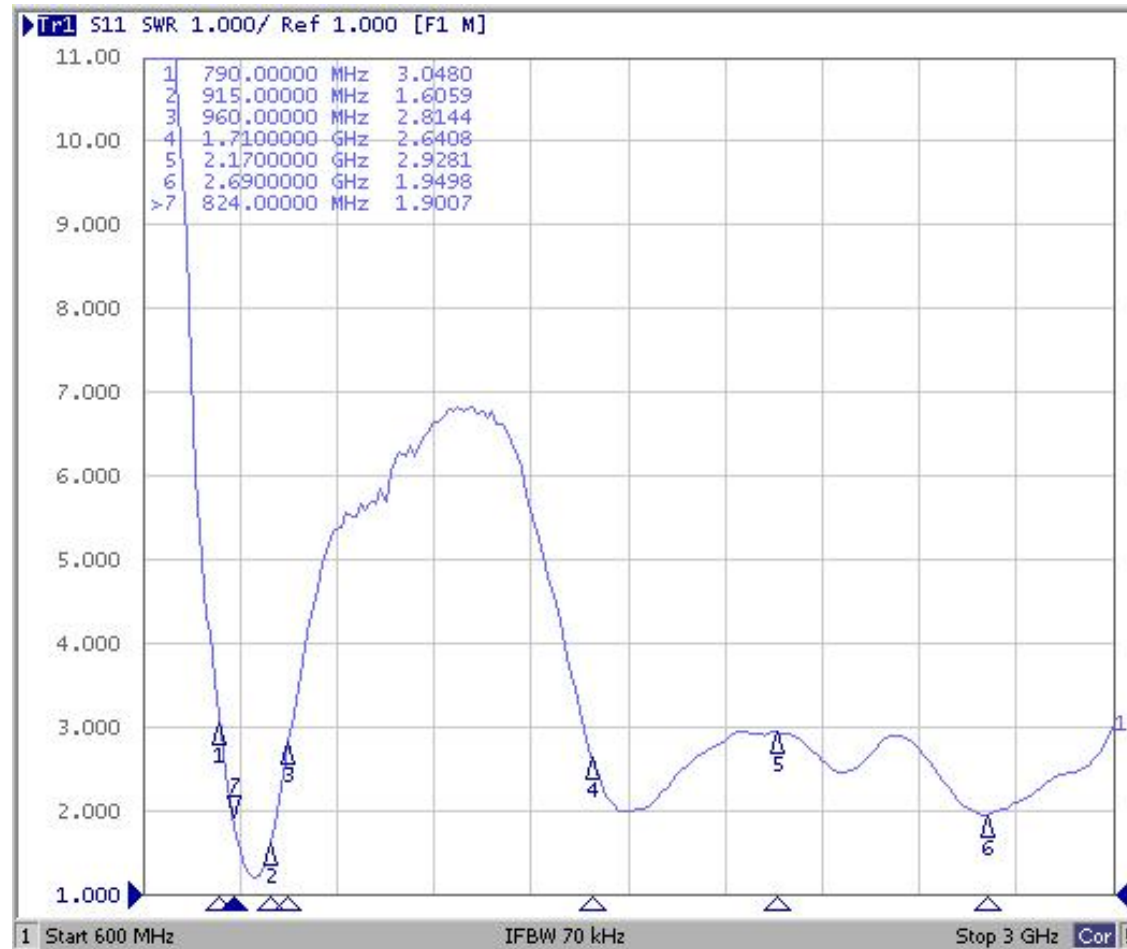
1.1 主天线匹配

E1	4.7nH
E2	0Ω
E3	N/A





1.2 主天线VSWR





1.3 主天线无源数据

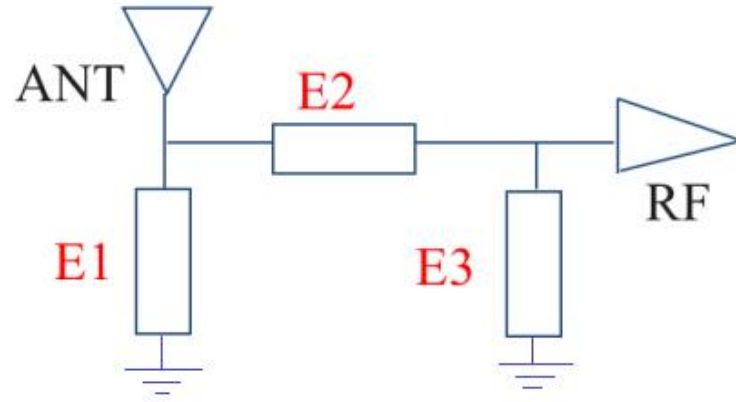
Frequency	Efficiency	Efficiency . dB	Frequency	Efficiency	Efficiency . dB
790	31%	-5.0	1710	35%	-4.5
800	36%	-4.4	1745	36%	-4.5
810	40%	-3.9	1780	36%	-4.4
820	45%	-3.5	1815	36%	-4.5
830	47%	-3.2	1850	35%	-4.5
840	49%	-3.1	1885	34%	-4.7
850	50%	-3.0	1920	33%	-4.8
860	48%	-3.2	1955	33%	-4.8
870	46%	-3.4	1990	33%	-4.8
880	44%	-3.5	2025	35%	-4.6
890	41%	-3.9	2060	39%	-4.1
900	37%	-4.3	2095	39%	-4.1
910	37%	-4.4	2130	37%	-4.3
920	35%	-4.6	2165	36%	-4.4
930	33%	-4.9	2200	37%	-4.4
940	33%	-4.9	2235	37%	-4.3
950	32%	-4.9	2270	46%	-3.4
960	30%	-5.2	2305	50%	-3.0
			2340	48%	-3.2
			2375	49%	-3.1
			2410	44%	-3.6
			2445	39%	-4.0
			2480	40%	-3.9
			2515	44%	-3.6
			2550	43%	-3.6
			2585	43%	-3.6
			2620	44%	-3.6
			2655	45%	-3.4
			2690	44%	-3.6

LTE调试数据

◆ 2、DIV天线部分

2.1 分集天线匹配

E1	N/A
E2	0Ω
E3	N/A





2.2 分集天线VSWR





2.3 分集天线无源数据

Frequency	Efficiency	Efficiency . dB
1800	33%	-4.9
1830	31%	-5.1
1859	29%	-5.4
1889	27%	-5.7
1919	27%	-5.7
1948	28%	-5.6
1978	29%	-5.4
2008	29%	-5.3
2037	31%	-5.1
2067	34%	-4.7
2097	37%	-4.4
2126	39%	-4.1
2156	37%	-4.3
2186	38%	-4.2
2215	37%	-4.3
2245	35%	-4.6
2275	32%	-4.9
2304	29%	-5.3
2334	27%	-5.7
2364	30%	-5.3
2393	33%	-4.8
2423	36%	-4.4
2453	39%	-4.1
2482	42%	-3.8
2512	44%	-3.6
2542	43%	-3.6
2571	40%	-4.0
2601	35%	-4.6
2631	31%	-5.2
2660	32%	-5.0
2690	34%	-4.7

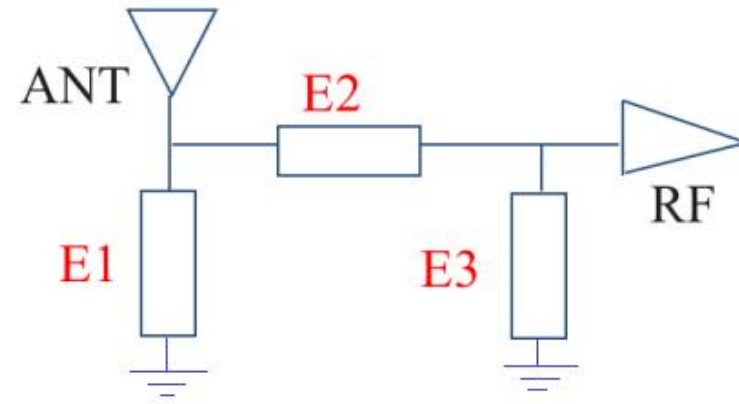
WIFI调试数据

◆ 3、WIFI天线部分



3.1 WIFI天线匹配

E1	N/A
E2	0Ω
E3	N/A





3.2 WIFI天线VSWR





3.3 WIFI天线无源数据

Frequency	Efficiency	Efficiency . dB
2400	53%	-2.8
2410	53%	-2.8
2420	54%	-2.6
2430	55%	-2.6
2440	54%	-2.7
2450	56%	-2.5
2460	59%	-2.3
2470	60%	-2.2
2480	60%	-2.2
2490	61%	-2.1
2500	62%	-2.1

有源数据



4.1 天线有源数据

LTE

Band	FRQ	Channel	TRP	TIS
LTE B4	10M	20000	18.71	
		20350	17.76	
		27610	19.92	-93.32
LTE B28	10M	27260	18.52	
		27410	17.00	
		27610	17.83	-92.05

WCDMA

Band	TRP	TIS
B2	21.70	
	20.91	
	19.51	-105.84
B4	21.76	
	20.62	
	21.72	-109.31



4.2 WiFi天线有源数据

11b	TRP (1M)		TIS (1M)		11b	TRP (1M)		TIS (1M)	
	1	14. 33	1	-91. 52		1	14. 8	1	-90. 33
	6	12. 03	6	-90. 79		6	12. 09	6	-91. 83
	11	12. 89	11	-90. 32		11	12. 77	11	-90. 45
11b	TRP (11M)		TIS (11M)		11b	TRP (11M)		TIS (11M)	
	1	14. 65	1	-83. 06		1	14. 61	1	-82. 77
	6	12. 17	6	-82. 25		6	12. 06	6	-82. 24
	11	12. 97	11	-82. 22		11	12. 87	11	-82. 36
11g	TRP (6M)		TIS (54M)		11g	TRP (6M)		TIS (54M)	
	1	14. 7	1	-65. 82		1	14. 64	1	-65. 21
	6	12. 04	6	-64. 97		6	12. 17	6	-65. 08
	11	13. 24	11	-65. 47		11	12. 91	11	-65. 68

THANKS!

联系人：何军森

手机： 18321852934

邮箱： tech52@vlg.com.cn

上海研发地址： 上海市徐汇区钦州北路1199号智汇园87号409

总公司地址： 深圳市宝安区西乡桃花源科技创新园一分园一栋三楼

网址： www.vlg.com.cn

