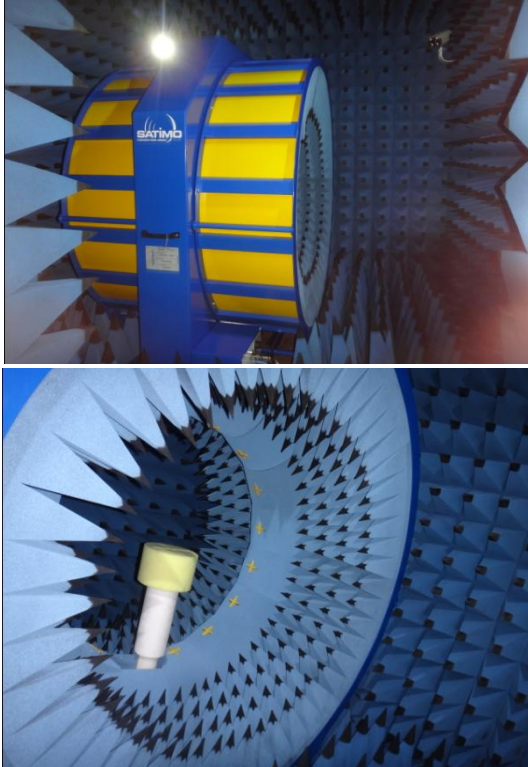


# Antenna Test Report



manufacturer	AFT tech Electronic Co., Ltd. (Shenzhen)	Model	CK1
Band	WIFI:2.4G	MD Type	Shrapnel
RF Enginner	LIU	MD Enginner	DUQIANG
antenna Type	PIFA	Date	20220620



原装进口法国 SATIMO 公司 StarLab 3D 实验室, 能精确快速的测试手机、平板电脑和笔记本等通信终端产品的 TRP、TIS、效率、增益、苹果图、方向图等参数数据。

Imported from France SATIMO company StarLab 3d laboratory, can accurate、rapid test communications terminal products .such as mobile phones, PC of TRP, TIS, efficiency, gain, apple figure, directional diagram

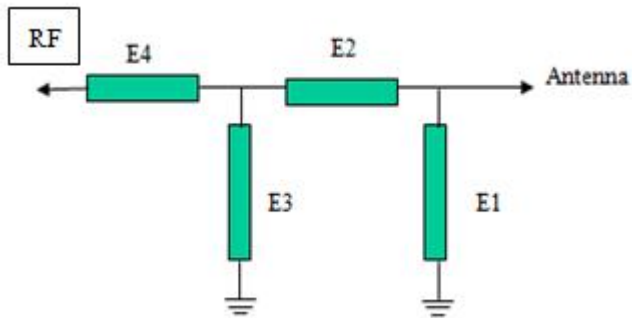
## Report version summary

Edition	Date	Content overview
V1	2022-06-20	Antenna test report

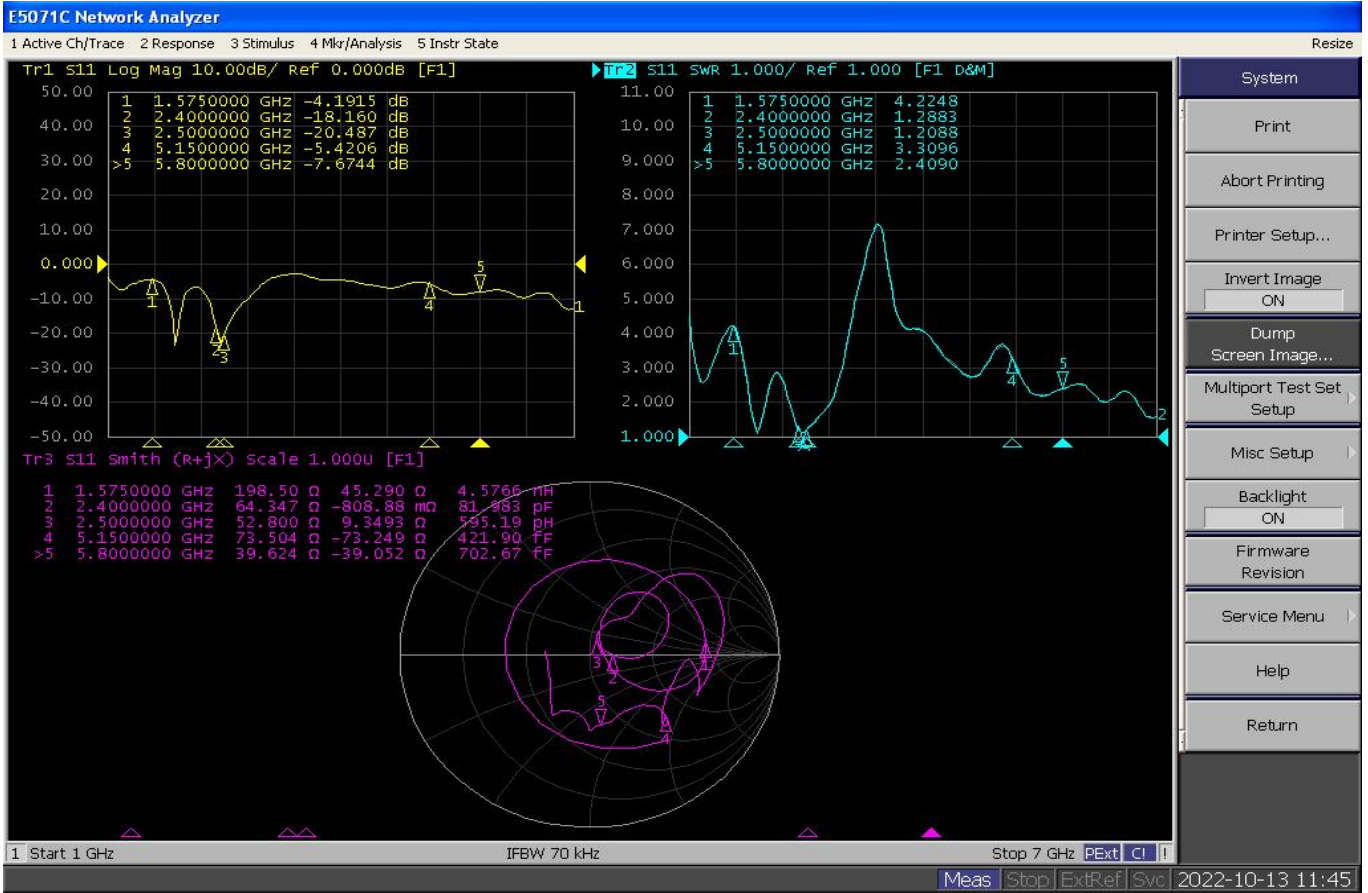
## Main antenna matching circuit

Element	E1	E2	E3	E4
Value	NC	0 欧	NC	0 欧

Our company has not made changes to the main antenna matching circuit!



### 2.4G passive standing wave

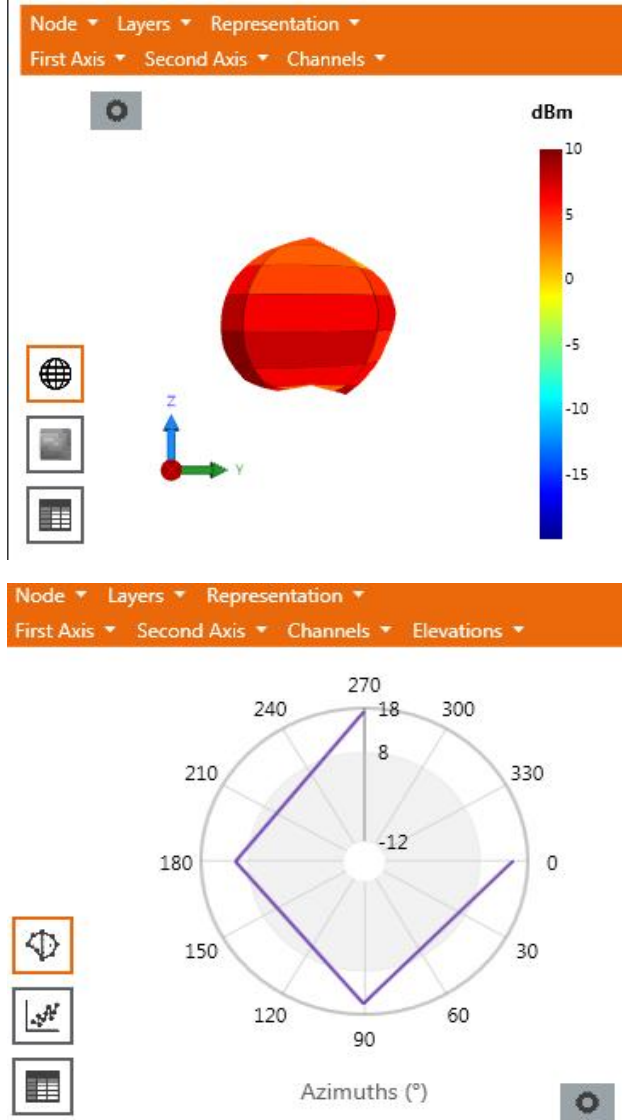


### 2.4G efficiency gain

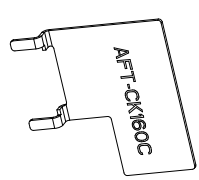
Passive Test For WIFI										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2300	43.66	-3.6	0.29	-1.86	20.115	23.546	0.29	-8.48	45.67	44.11
2310	42.59	-3.71	0.32	-1.83	19.63	22.956	0.32	-8.25	45.63	44.54
2320	42.63	-3.7	0.48	-1.67	19.579	23.05	0.48	-8.15	46.15	44.65
2330	44.33	-3.53	0.6	-1.55	20.803	23.526	0.58	-8.36	46.17	45.34
2340	37.1	-4.31	-0.18	-2.33	17.568	19.532	-0.18	-10.15	46.49	45.4
2350	41.12	-3.86	0.18	-1.97	19.642	21.479	0.18	-10.37	46.94	45.65
2360	44.94	-3.47	0.58	-1.57	21.509	23.427	0.58	-10.1	46.99	45.85
2370	37.24	-4.29	-0.24	-2.39	17.798	19.445	-0.24	-10.97	46.72	45.49
2380	37.11	-4.31	-0.11	-2.26	17.734	19.374	-0.11	-11.21	47.44	45.93
2390	41.38	-3.83	0.45	-1.7	19.953	21.432	0.45	-10.92	47.12	46.23
2400	33.38	-4.77	-0.36	-2.51	16.109	17.271	-0.36	-12.07	46.5	45.85
2410	37.11	-4.3	0.15	-2	17.997	19.117	0.15	-11.39	46.61	46.05
2420	37.71	-4.24	0.19	-1.96	18.31	19.4	0.19	-11.11	46.59	46.17
2430	37.22	-4.29	0.15	-2	18.006	19.214	0.15	-10.94	46.77	46.14
2440	36.35	-4.39	0.05	-2.1	17.562	18.791	0.05	-11	46.79	45.97
2450	36.38	-4.39	0.13	-2.02	17.532	18.844	0.13	-11.05	46.58	45.82
2460	36.3	-4.4	0.16	-1.99	17.545	18.756	0.16	-11.15	46.74	45.97
2470	36.27	-4.4	0.23	-1.92	17.65	18.622	0.23	-11.1	46.54	45.98
2480	38.77	-4.12	0.52	-1.63	19.116	19.654	0.52	-10.65	46.48	46.46
2490	35.76	-4.47	0.15	-2	17.795	17.965	0.15	-11.41	46.53	46.76
2500	34.37	-4.64	0.02	-2.13	17.129	17.238	0.02	-11.77	46.77	46.39

### Radiation Pattern

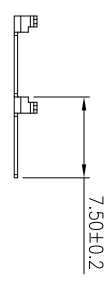
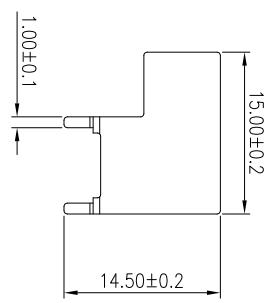
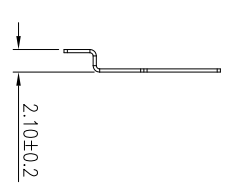
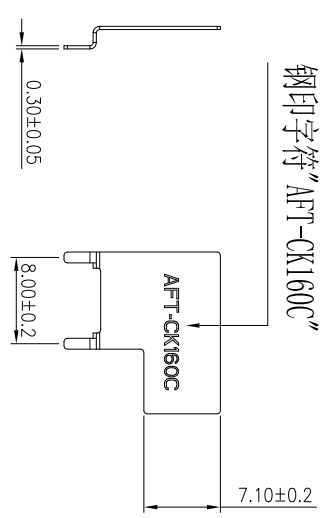
WIFI Antenna 3D Radiation Pattern



1 2 3 4 5 6 7 8



钢印字符“AFT-CK160C”



注:

- 1、打★号为严格控制尺寸(必测等级A)
- 打\*号为重要尺寸(制作模具要控制, 模具验收必测等级B), 其它尺寸为设计参考尺寸等级C;
- 2、不可有变形、翘起、毛刺、油污、刮伤等缺陷;
- 3、材质用SUS 304 T=0.3, 镀镍;
- 4、未标注尺寸按CAD电子图档1:1量取;
- 5、未标注公差按CAD电子图档公差表执行;
- 6、热熔孔位置公差为 $\pm 0.05$ 并实配;
- 7、弹片表面印字, 具体内容见图, 要求字体清晰可见。



深圳市安弗电子科技有限公司  
上海磊

第三角法	机种	日期	设计	审核	页码
0~10 10~20 20~40 40~	CK160C WiFi天线 0-A70-14A-C-0-1A SUS304 T=0.3MM	2023-10-13	杜强	杜强	1 of 1
±0.10 ±0.12 ±0.15 ±0.20	品名 料号 材质 表面处理	结构	杜强	核淮	
0.02 0.03 0.02 0.04	外观处理	射频			
位置	镀镍	单位	mm	比例	版本
请勿实测图纸				1:1	REN:A

序号	日期	修改内容	版本	备注
1				
2				
3				
4				
5				
6				
7				
8				