Antenna Part Specification

Project name：	115C
Material category：	WIFI antenna
Antenna type：	Dipole
Manufacturer：	Shenzhen Cicent Communication Technology Co., Ltd.
Manufacturer address：	505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china
Version：	V1.0
Date：	2025.9.3

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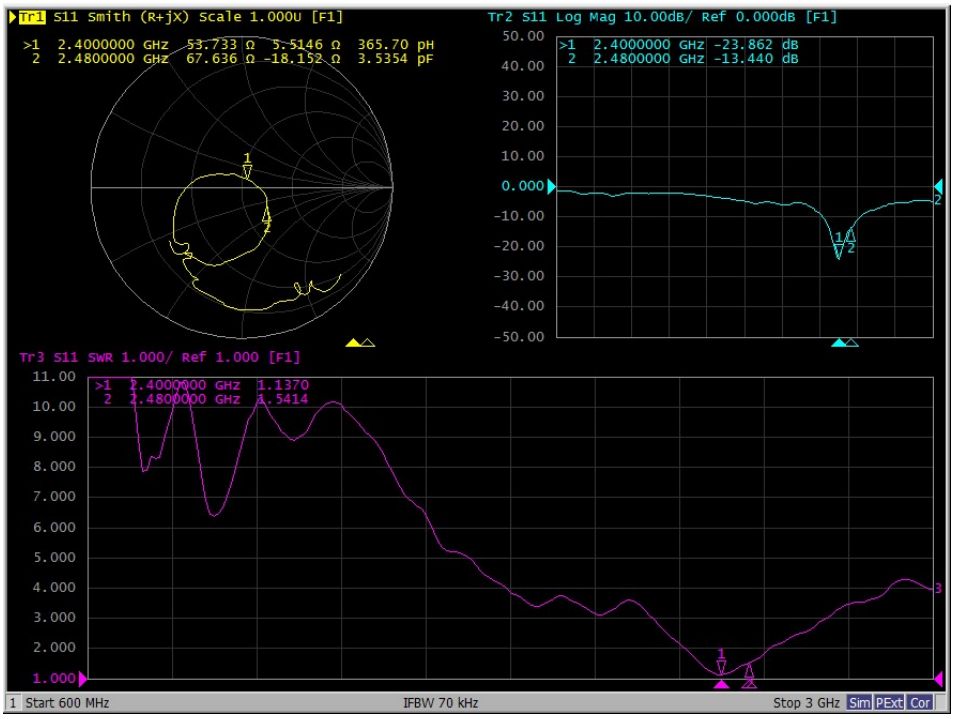
Change record			
Compile / change date	Reason for change	Changed content	Version
2025.9.3	First edition	First edition	V1.0

I: The report of passive data

Angilent E5071C

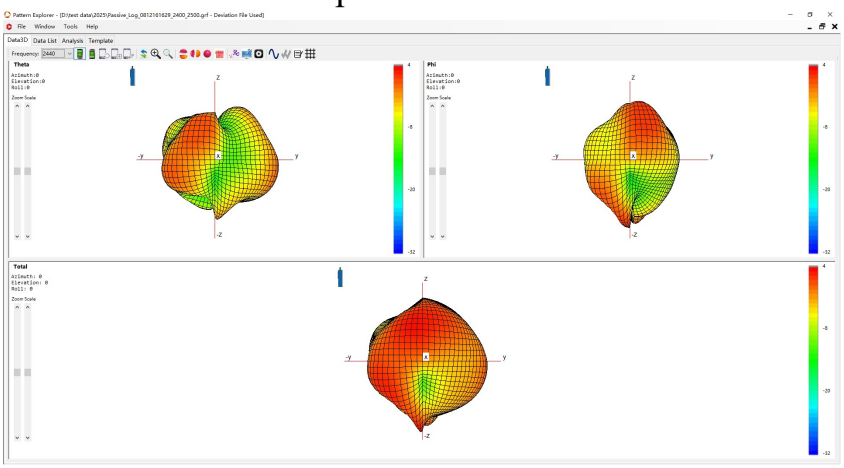
antenna S11 parameter：



Efficiency：

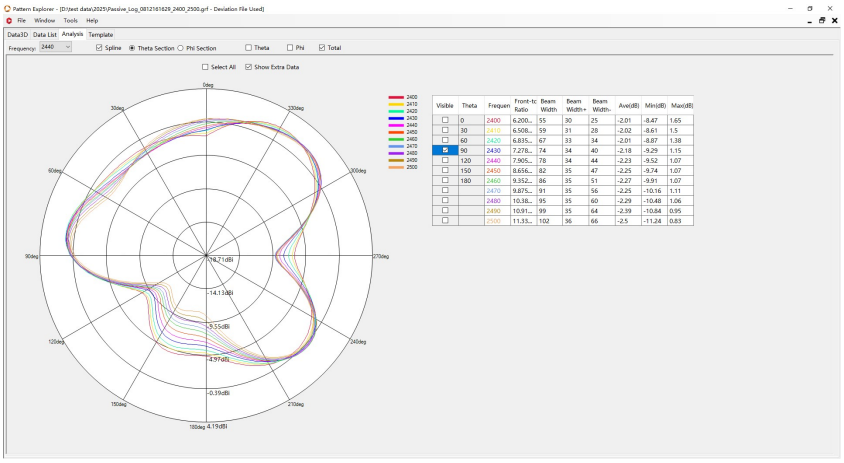
2400-2480 MHz			
Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
2400	-2.29	3.98	59.03
2410	-2.32	3.77	58.56
2420	-2.34	3.51	58.29
2430	-2.46	3.31	56.76
2440	-2.53	3.34	55.83
2450	-2.53	3.41	55.80
2460	-2.54	3.45	55.72
2470	-2.52	3.53	56.00
2480	-2.54	3.55	55.73
AVG	-2.45	3.54	56.86

3D Antenna radiation pattern：

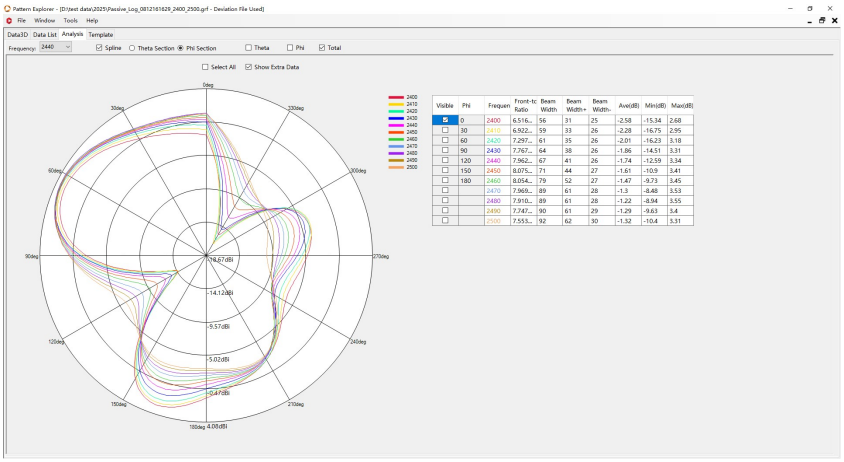


2D Antenna radiation pattern:

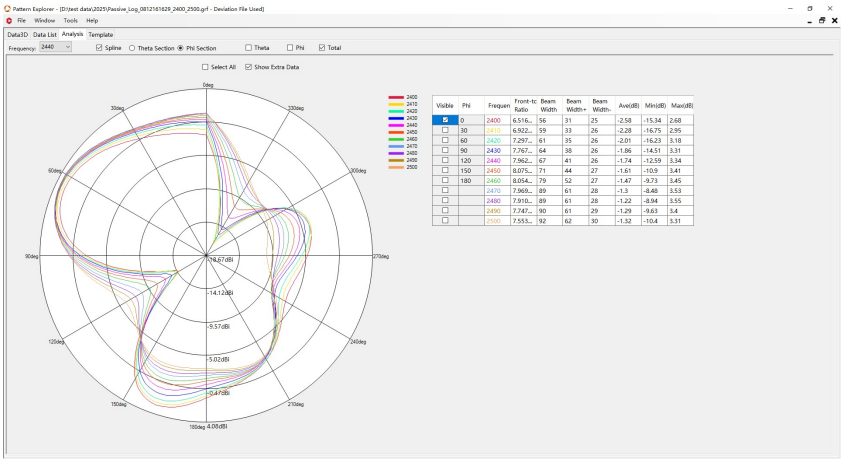
Theta=90°



Phi=0°



Phi=90°



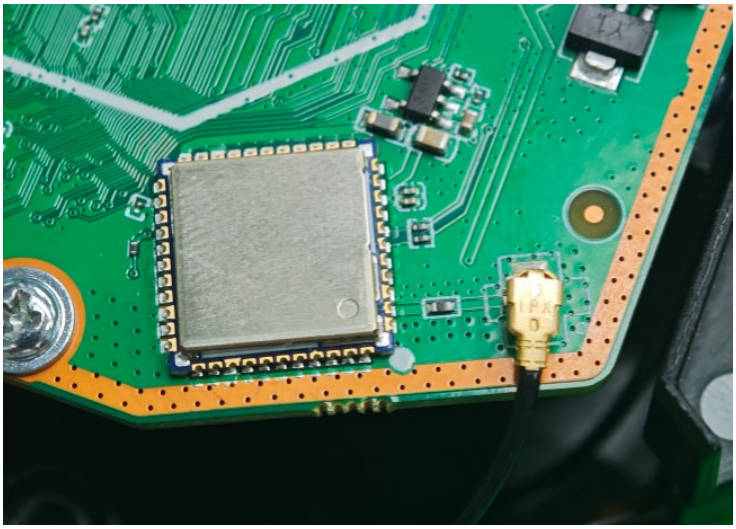
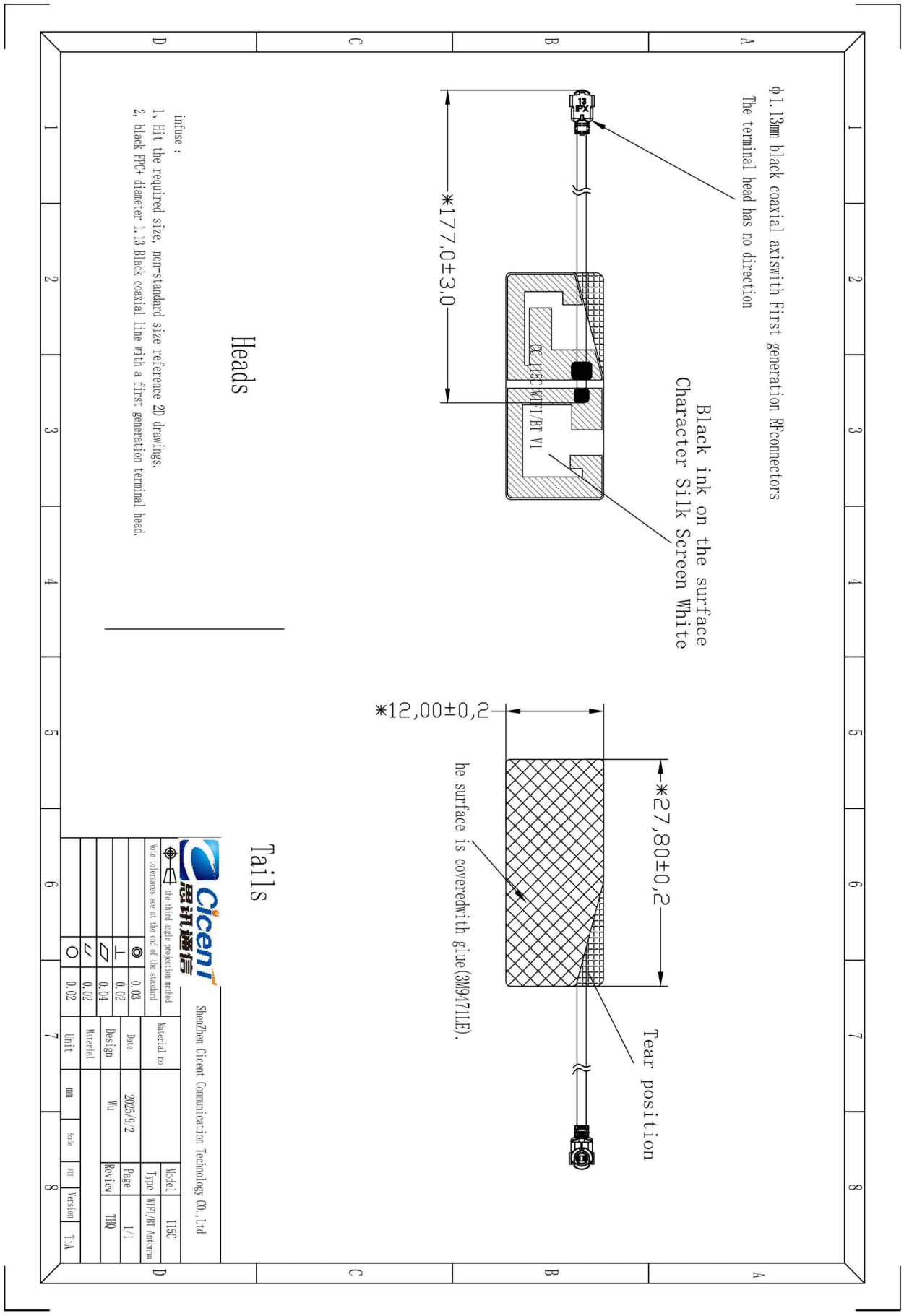
II：3D Active test report of antenna

11M-static	Channel	TRP（dBm）	TIS（dBm）
WIFI B	CH 1	17.1	-83.8
	CH 7	18.3	-84.6
	CH 13	18.6	-85.6
54M-static	Channel	TRP（dBm）	TIS（dBm）
WIFI G	CH 1	16.3	-71.2
	CH 7	16.5	-71.3
	CH 13	17.5	-73.0
64M-static	Channel	TRP（dBm）	TIS（dBm）
WIFI N	CH 1	16.4	-70.6
	CH 7	16.4	-70.8
	CH 13	17.3	-72.3

OTA Standard Chamber

III：Matching circuit

Remarks：The antenna matching circuit on the motherboard will not be modified. Maintain the original string of 0 Ω.



IV：Antenna structure diagram file