



Antenna Part Specification

Project name:	CI-W068S
Antenna name:	BT/WIFI antenna
Version:	V1.0
Date:	2026.01.15
Manufacturer:	Shenzhen Cicent Communication Technology Co., Ltd.
Manufacturer address:	505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china



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Change record			
Compile / change date	Reason for change	Changed content	Version
2026.01.15	First edition	First edition	V1.0

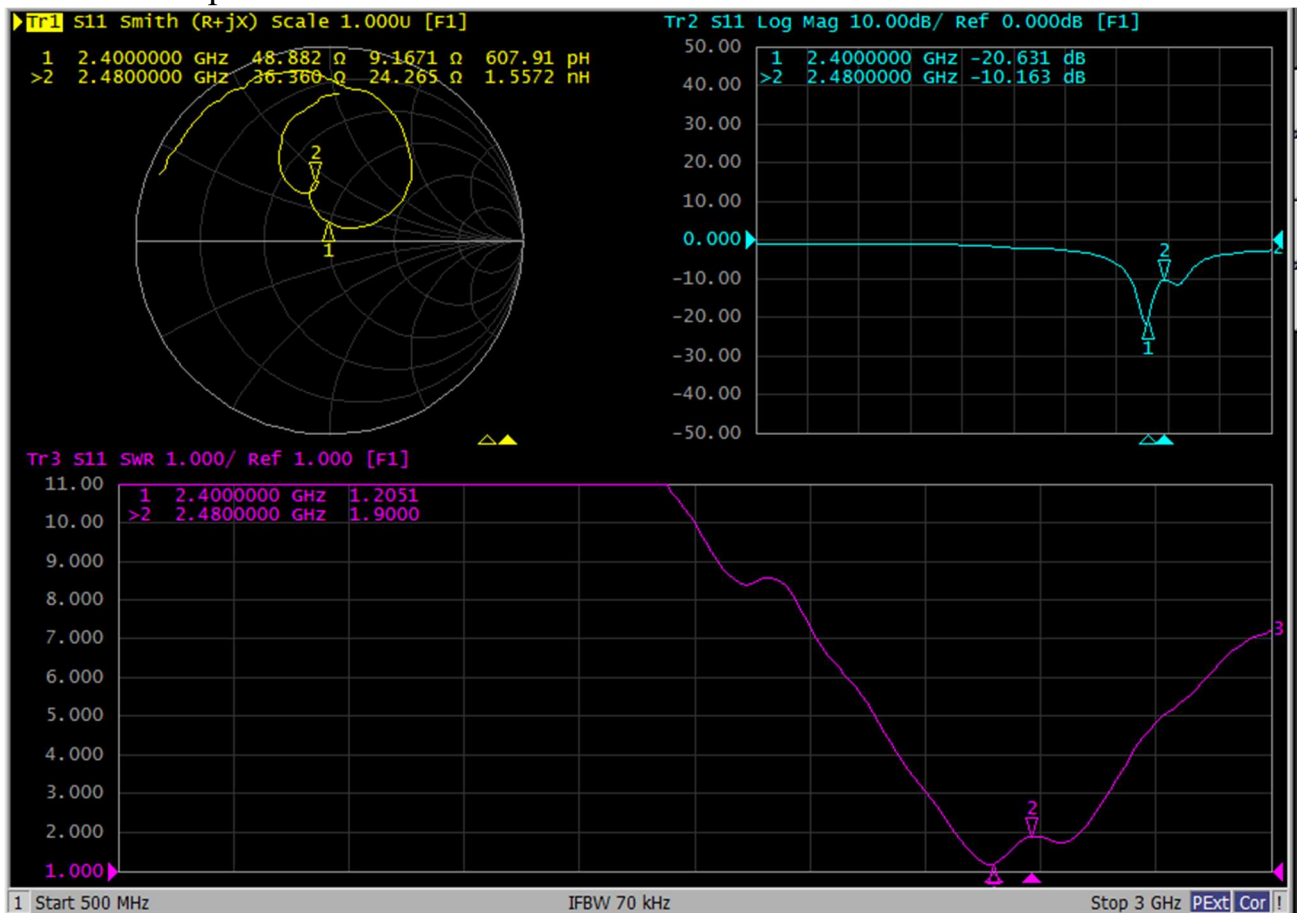


I: The report of passive data



Angilent E5071C

Antenna S11 parameter:

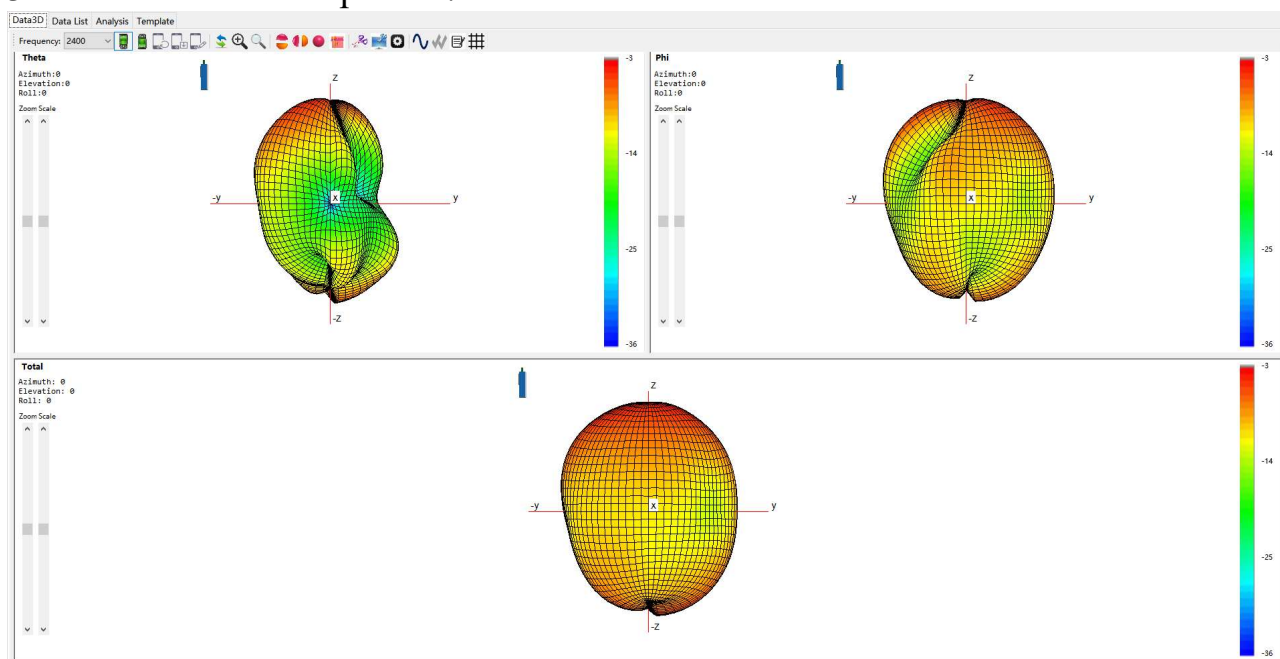




Antenna efficiency and gain:

2.4G			
Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
2400	-7.7	-3.1	16.9
2410	-7.8	-3.2	16.5
2420	-8.0	-3.2	16.0
2430	-8.1	-3.2	15.6
2440	-8.1	-3.2	15.4
2450	-8.2	-3.2	15.3
2460	-8.1	-3.1	15.3
2470	-8.2	-3.1	15.3
2480	-8.1	-2.9	15.7
average	-8.0	-3.1	15.8

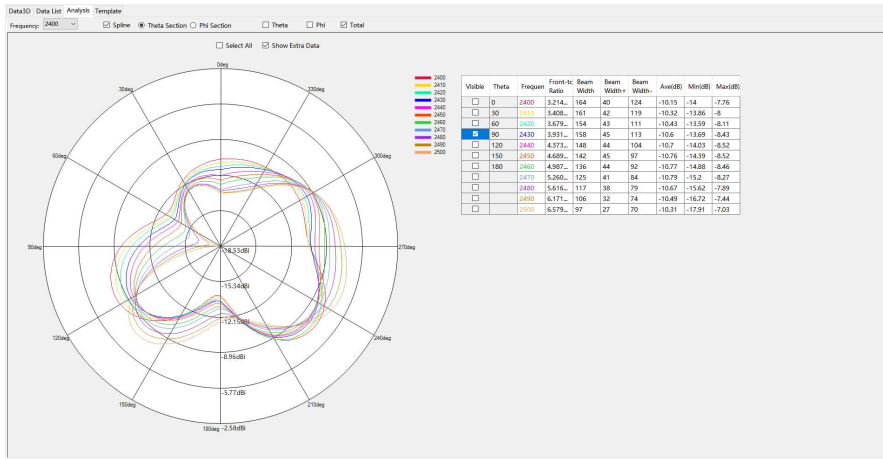
3D Antenna radiation pattern:



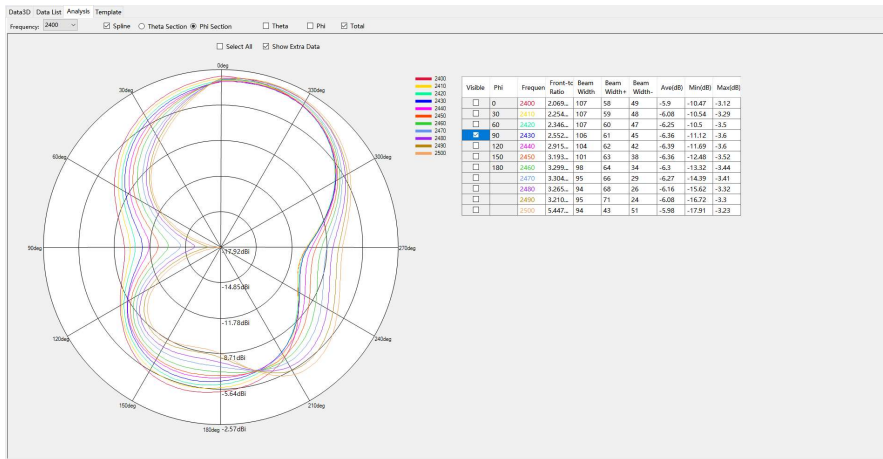


2D Antenna radiation pattern:

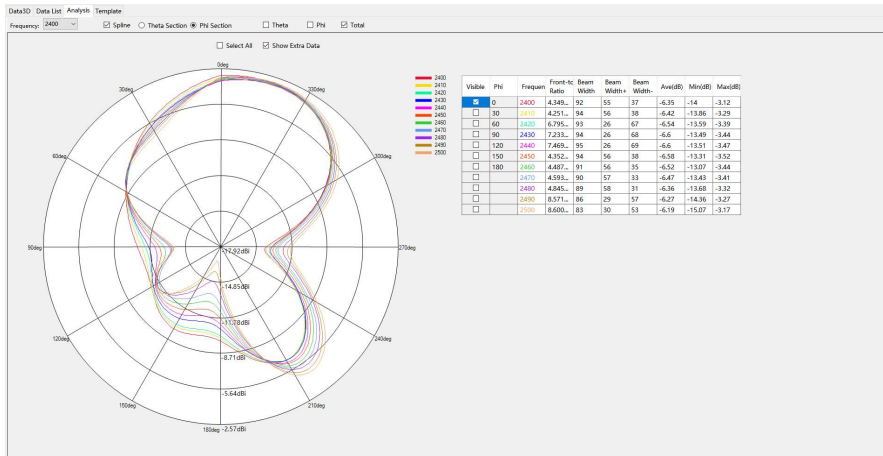
Theta=90°



Phi=90°



Phi=0°





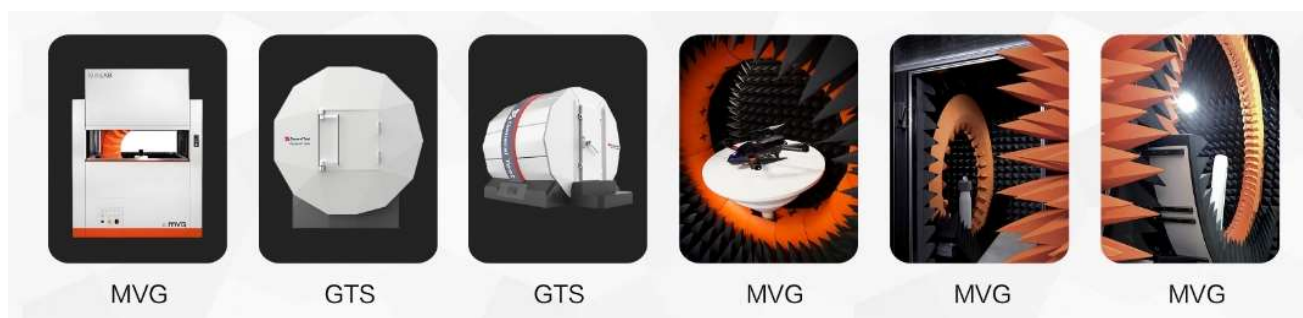
II: 3D Active test report of antenna

BT active data

DH1	Channel	Conductive		token (Screen off l#)		token (screen on)		token (Bright screen+base)	
		TX	RX	TRP	TIS	TRP	TIS	TRP	TIS
	0	14	-96	6.3	-88.2	6	-87.7	6	-87.8
	39	14	-96	6.1	-88.7	6	-88.1	5.8	-87.9
	78	14	-96	6.5	-89.5	6.2	-88.6	6	-88.7

WIFI active data

I#										
	standard	Channel	conduction		token (Screen off)		token (screen on)		token (Bright screen+base)	
			TX	RX	TRP	TIS	TRP	TIS	TRP	TIS
WIFI 2.4G	11b 20M(11Mbps TX, 11Mbps RX)	1	15.5	-89.5	7.9	-82.5	8	-79.3	7.6	-78.3
		6	15.6	-89.5	8.5	-82.6	8.3	-79.3	8	-78.1
		11	15.8	-89.5	8.6	-82.7	8.7	-79.7	8.1	-79.8
	11g 20M(54Mbps TX, 54Mbps RX)	1	14.7	-75.5	7.1	-69.4	7.2	-68.3	7	-67.5
		6	14.7	-76	8	-70.2	7.9	-69	7.8	-68.3
		11	14.9	-76	8.3	-69.8	8.2	-68.1	8	-69



OTA Standard Chamber



V: Antenna structure diagram file

