



Antenna Part Specification

Project name:	Fengling RIC-001
Material category:	R-BT antenna
Manufacturer:	Shenzhen Cicent Communication Technology Co., Ltd.
Manufacturer address:	505-506 ,A Block,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china
Version:	V1.0
Antenna Type:	PIFA Antenna
Date:	2025.8.30



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Change record			
Compile / change date	Reason for change	Changed content	Version
2025.8.30	First edition	First edition	V1.0

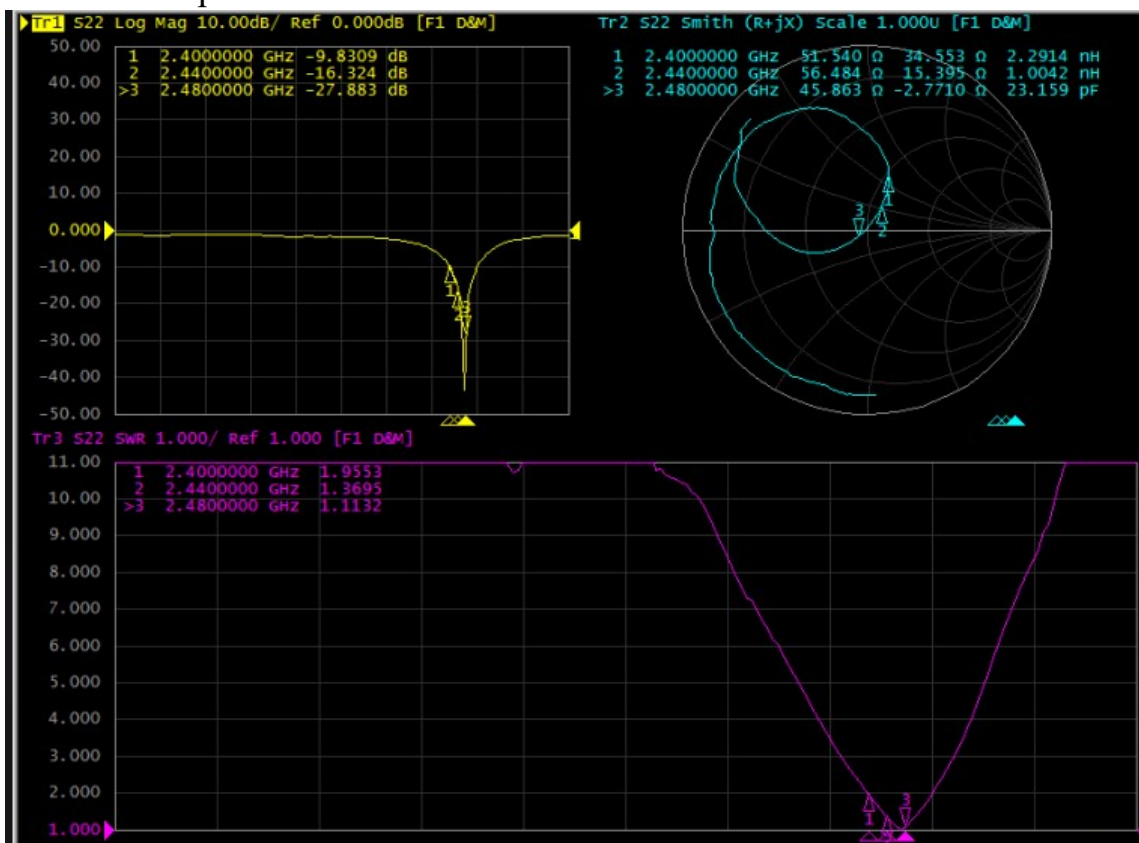


I: The report of passive data



Agilent E5071C

antenna S11 parameter:

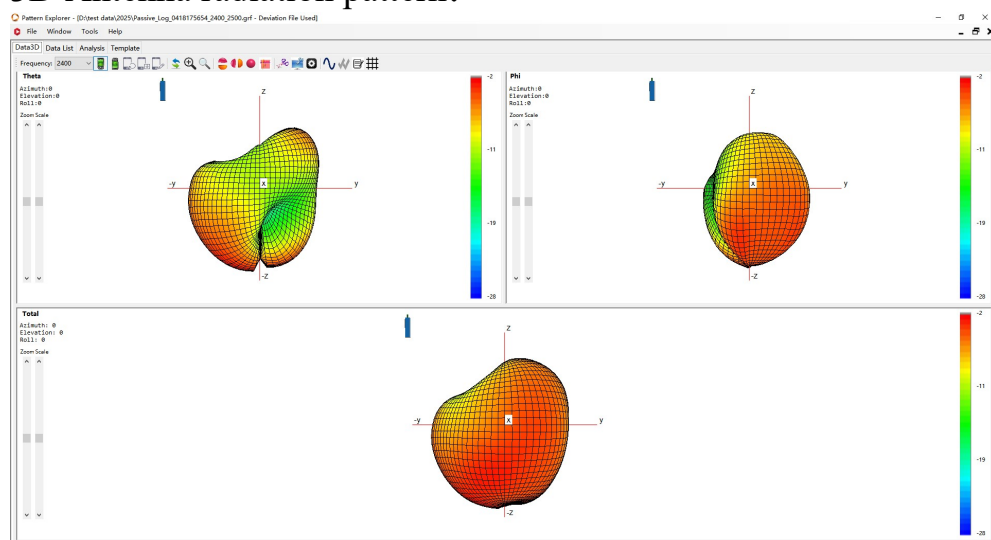




Efficiency:

2400-2480 MHz			
Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dBi)
2400	29.2%	-5.3	-2.2
2410	30.4%	-5.2	-2.0
2420	31.1%	-5.1	-2.0
2430	30.4%	-5.2	-2.1
2440	29.8%	-5.3	-2.2
2450	28.8%	-5.4	-2.3
2460	27.4%	-5.6	-2.4
2470	26.4%	-5.8	-2.5
2480	25.1%	-6.0	-2.6
AVG	28.7%	-5.4	-2.2

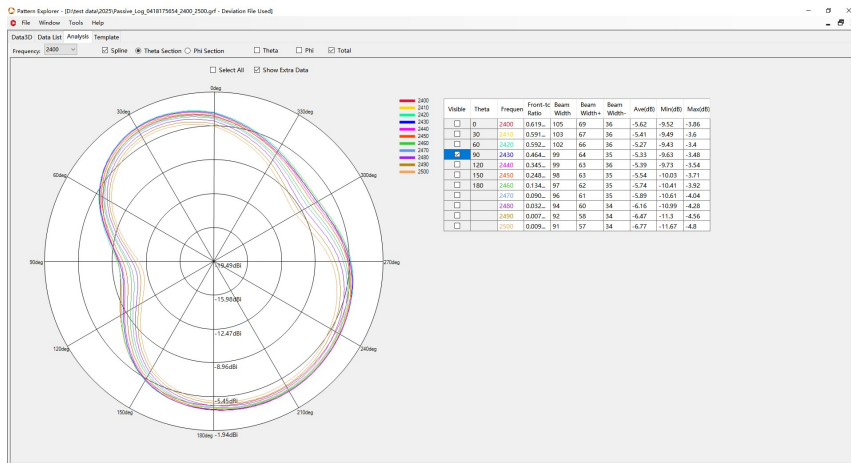
3D Antenna radiation pattern:



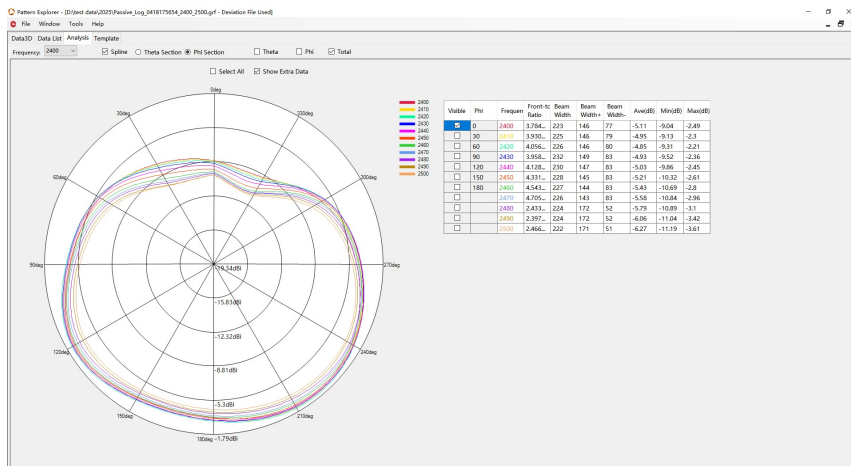


2D Antenna radiation pattern:

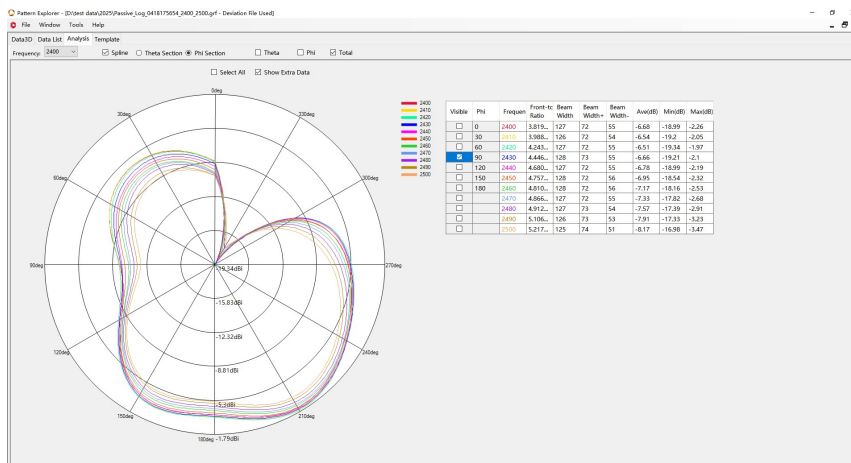
Theta=90°



Phi=0°



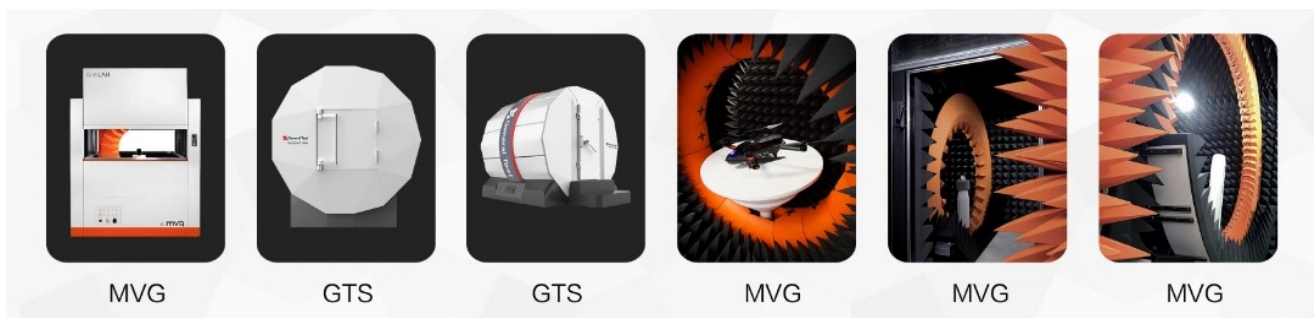
Phi=90°





II: Antenna active test data

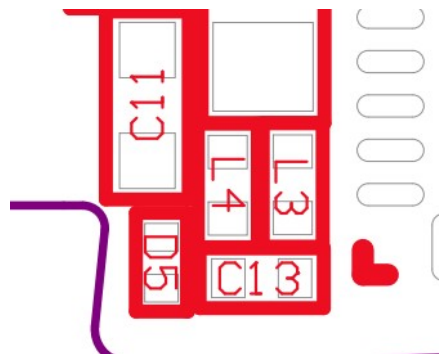
		Free		Headform	
	Channel	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
R	CH 0	5.8	-89.7	-2.4	-81.4
	CH 39	6.8	-90.9	-2.1	-82.1
	CH 78	6.8	-90.5	-2.5	-81.1



OTA Standard Chamber

III: Antenna matching circuit

Element	Value
L3	N/A
C13	2.4nH
L4	1.5pF
D5	N/A





IV: Antenna structure diagram file

