



# Antenna Part Specification

Project name:	Q950
Material category:	BT antenna
Manufacturer:	Shenzhen Cicent Communication Technology Co., Ltd.
Manufacturer address:	505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china
Antenna type:	PIFA
Version:	V3.0
Date:	2025.5.27



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Change record			
Compile / change date	Reason for change	Changed content	Version
2025.02.13	First edition	First edition	V1.0
2025.02.19	Antenna image file update	Update BT antenna image file	V2.0
2025.05.27	Update RF data	Update RF data	V3.0

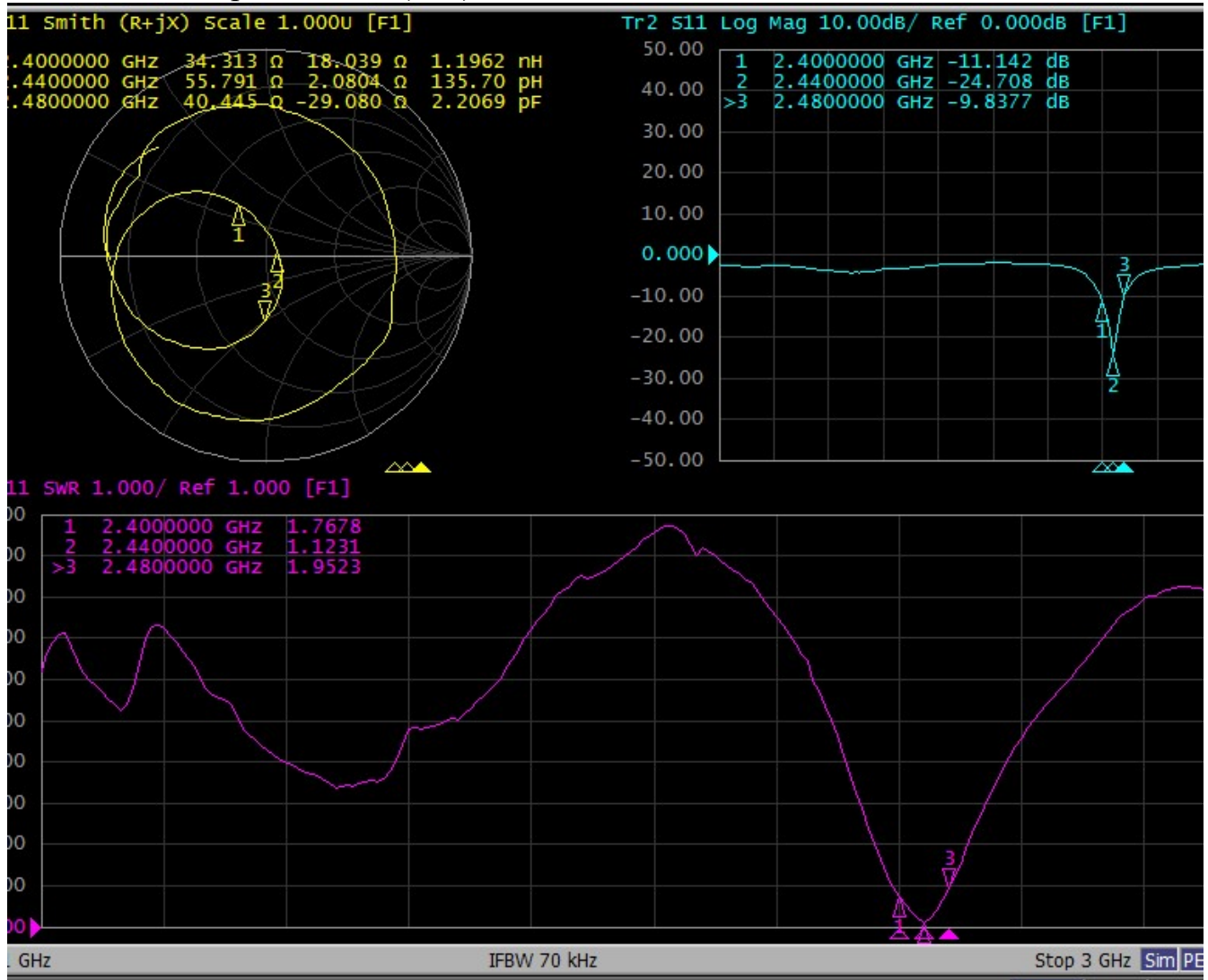


I: The report of passive data



Angilent E5071C

BT antenna S11 parameter: (free)

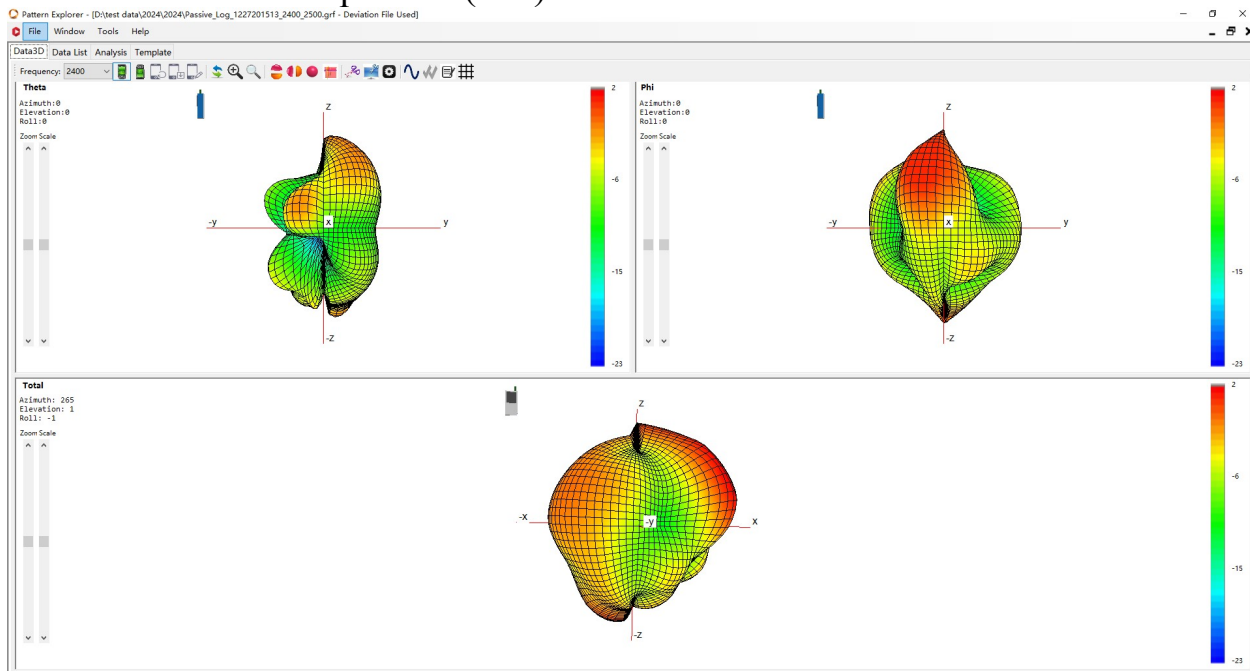




Efficiency: (free)

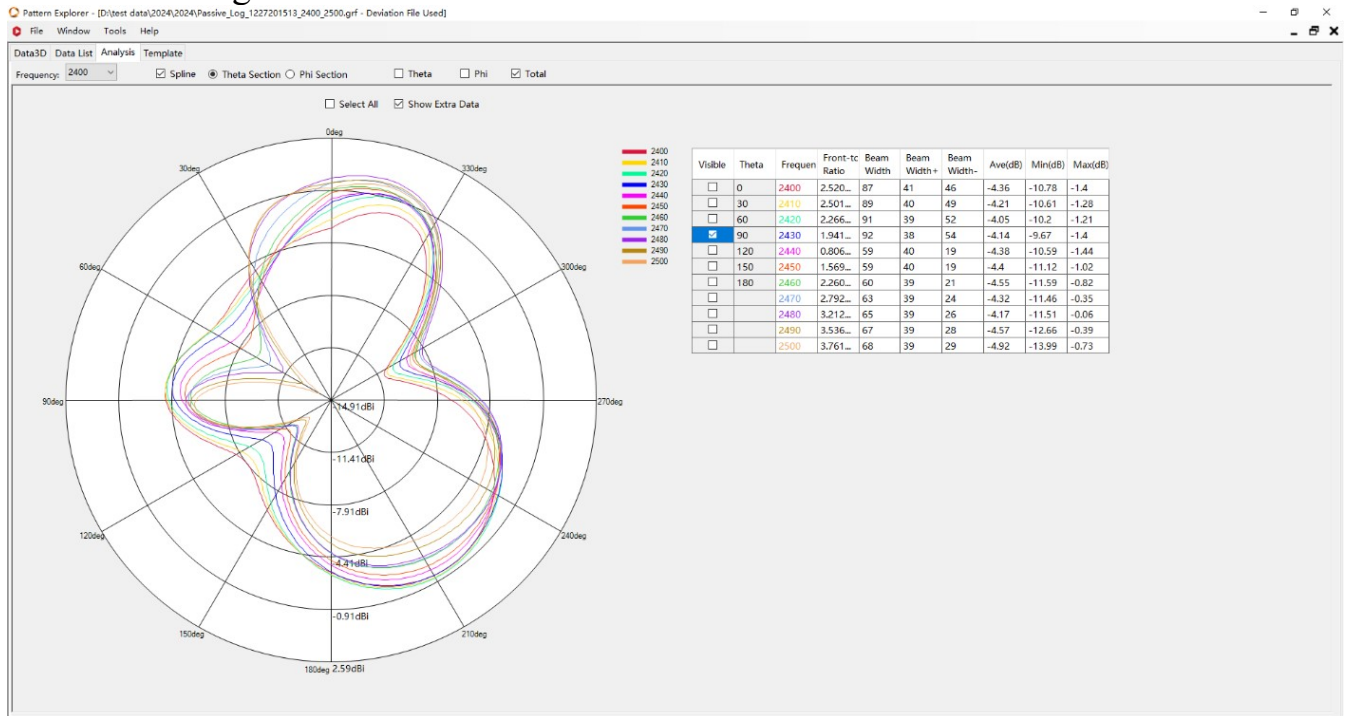
2400-2480MHz			
Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
2400	-3.6	1.2	43.8%
2410	-3.3	1.8	46.4%
2420	-3.2	2.1	47.8%
2430	-3.3	2.2	46.8%
2440	-3.5	2.3	44.8%
2450	-3.5	2.5	44.7%
2460	-3.8	2.4	42.2%
2470	-3.7	2.6	43.1%
2480	-3.7	2.6	43.1%
AVG	-3.5	2.2	44.7%

3D Antenna radiation pattern: (free)

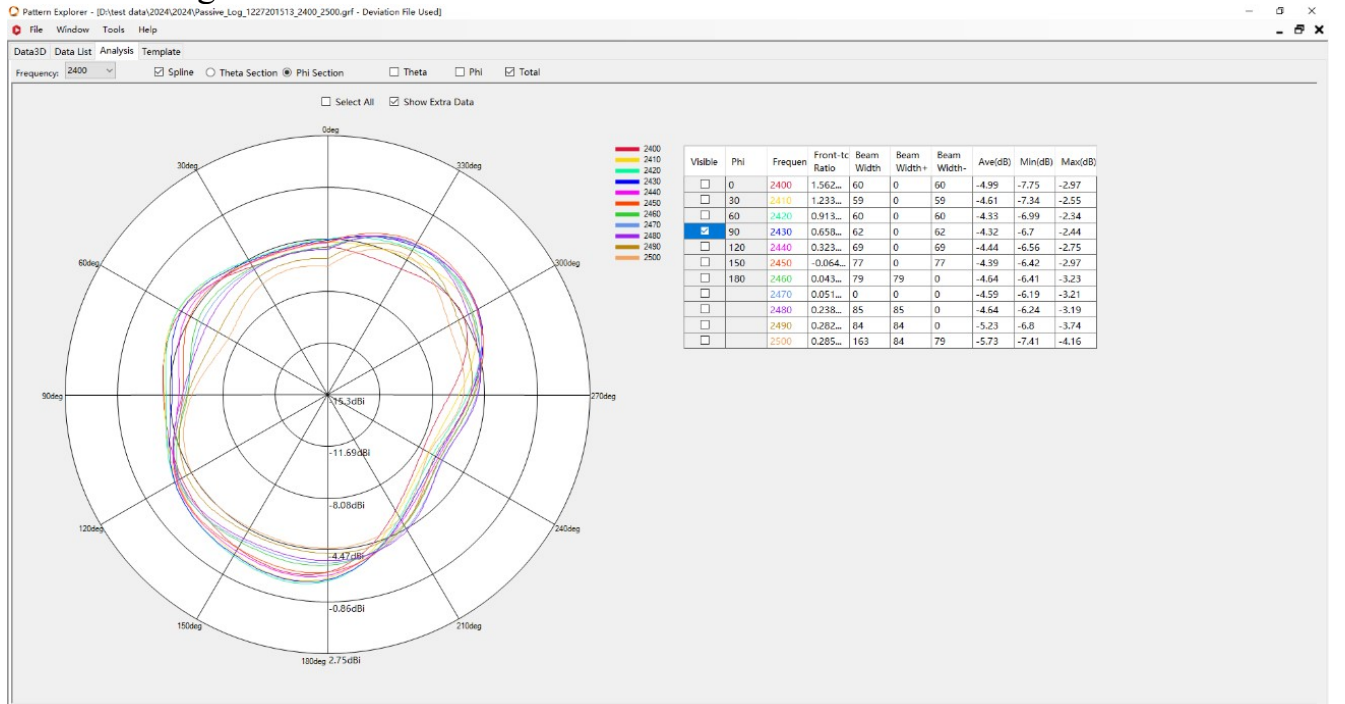




### Antenna radiation pattern: (free) Theta=90.00deg

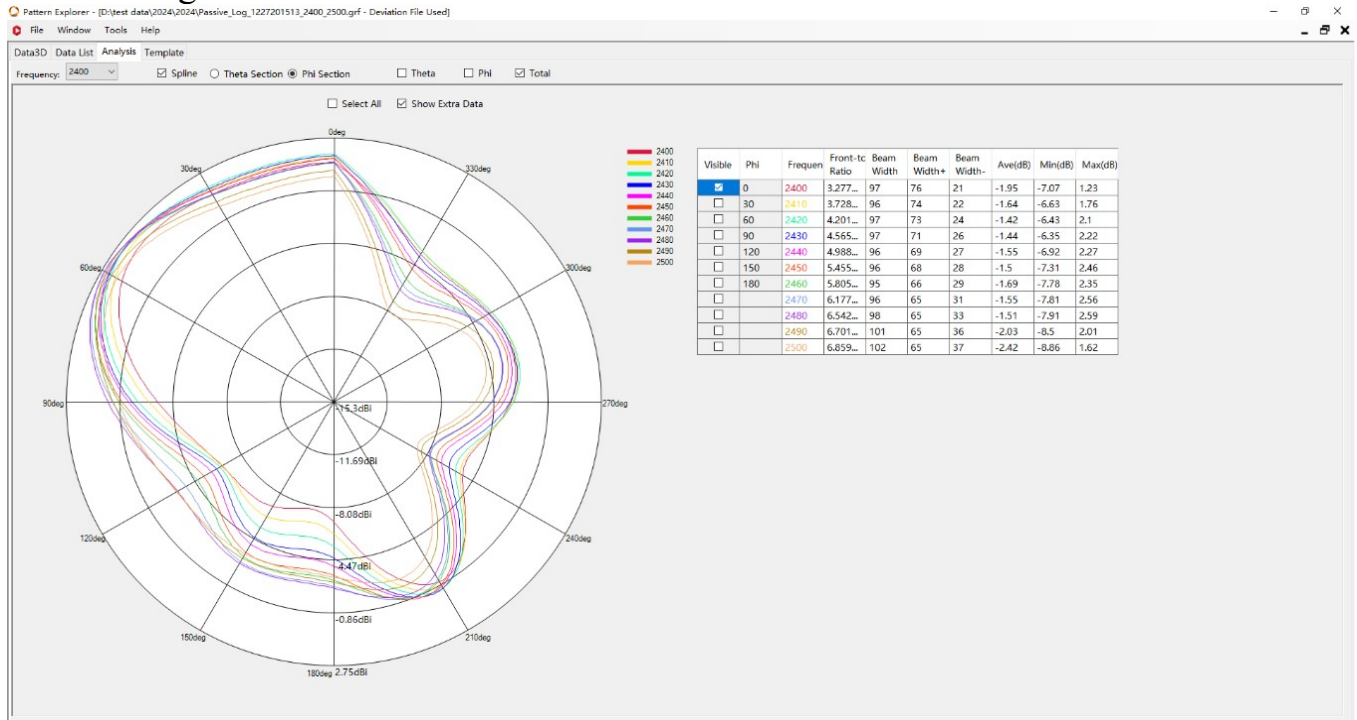


### Phi=90.00deg

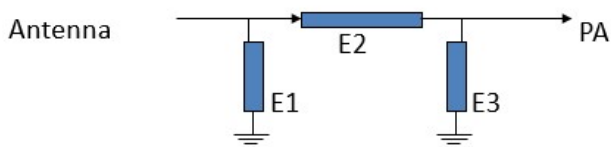




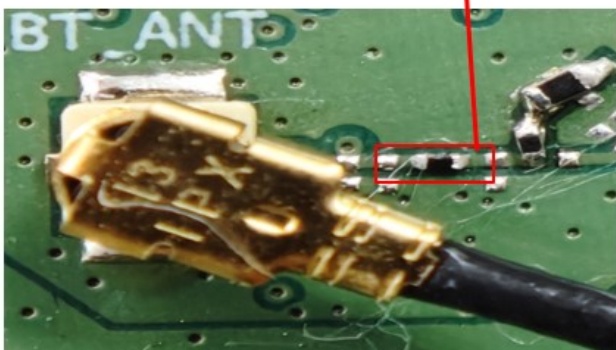
Phi=0.00deg



## II: Matching circuit



number	Matching Value
E1	NA
E2	0Ω
E3	NA





III: 3D Active test report of antenna

		free	
	Channel	TRP (dBm)	TIS (dBm)
BT	CH 0	7.6	-93.7
	CH 39	7.7	-93.4
	CH 78	7.2	-93.5



OTA Standard Chamber

IV: Environmental treatment



As shown in the figure, the cable of the BT antenna needs to be fixed at the buckle.



V: Structure file:

