



Antenna Part Specification

Project name:	CE-2258B
Antenna name:	R-BT antenna
Version:	V2.0
Date:	2025.12.31
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
2025.12.19	First edition	First edition	V1.0
2025.12.31	Antenna adjustment	Data update	V2.0

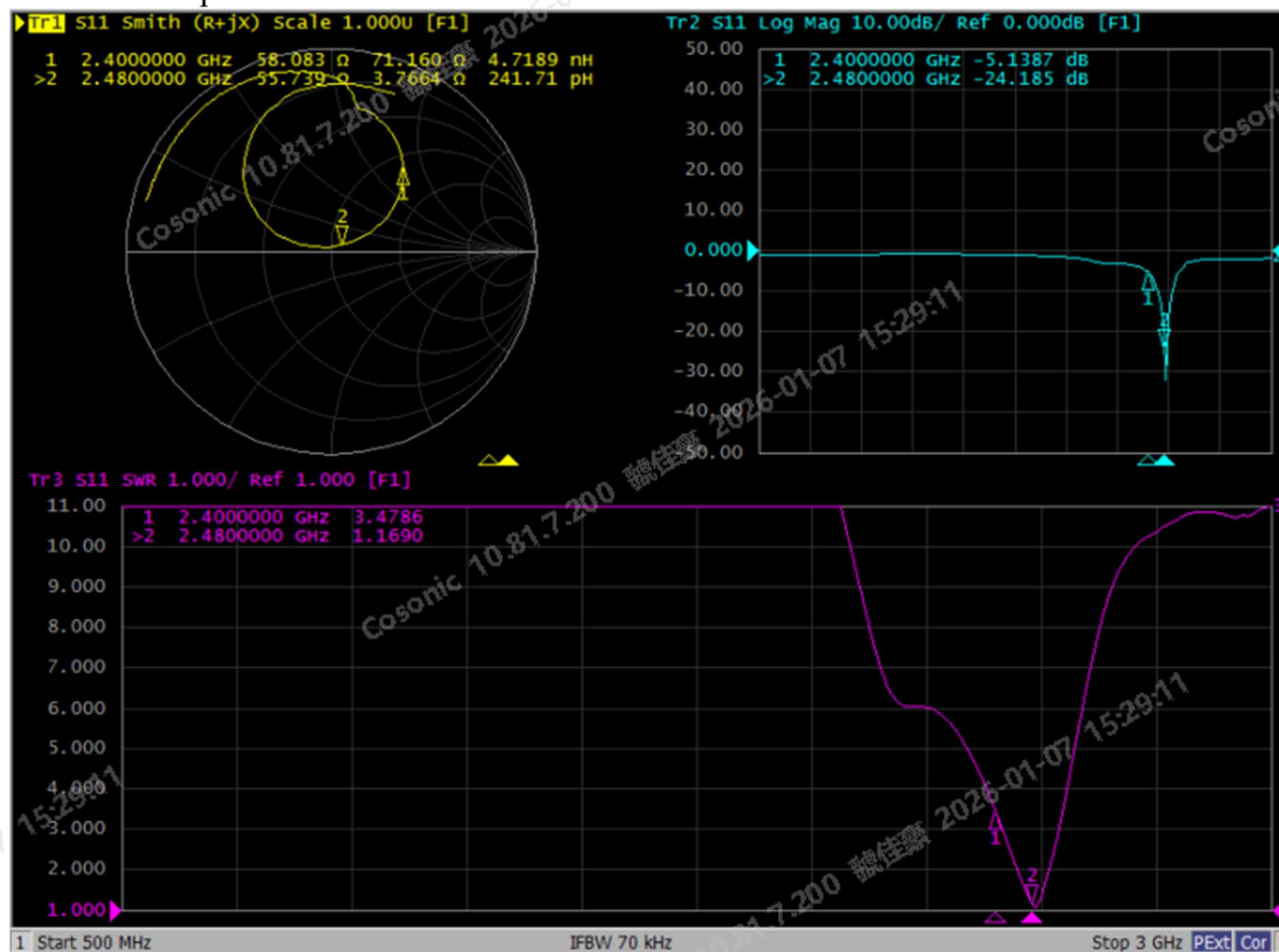


I: The report of passive data



Agilent E5071C

Antenna S11 parameter: (R-free)

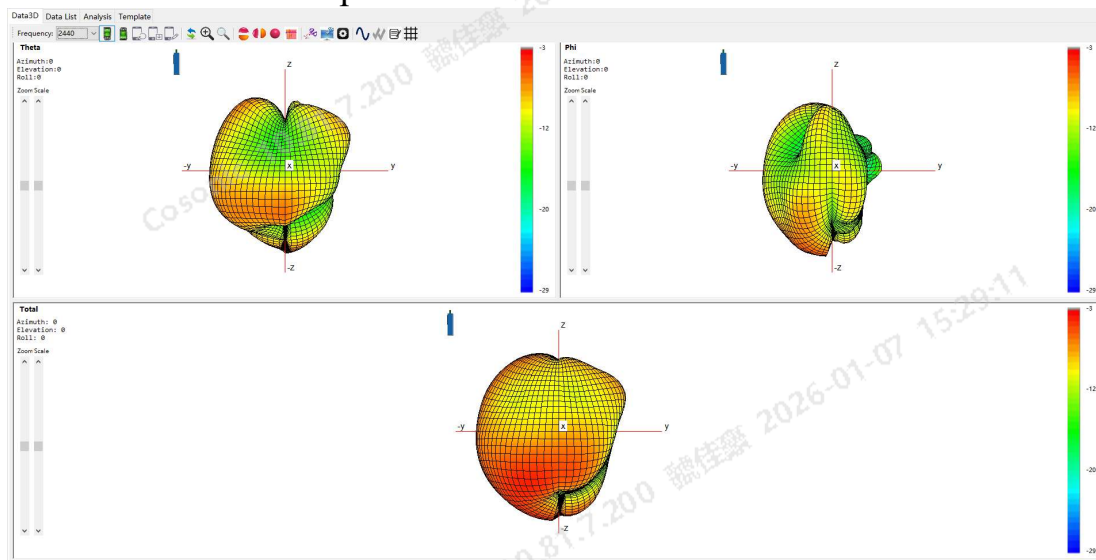




Antenna efficiency and gain: (R-free)

R-free			
Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dBi)
2400	18.2%	-7.40	-3.84
2410	18.8%	-7.26	-3.67
2420	19.3%	-7.14	-3.44
2430	19.9%	-7.01	-3.26
2440	20.3%	-6.92	-3.13
2450	20.6%	-6.87	-3.01
2460	21.0%	-6.79	-2.91
2470	21.3%	-6.72	-2.76
2480	21.8%	-6.62	-2.92
average	20.1%	-6.97	-3.22

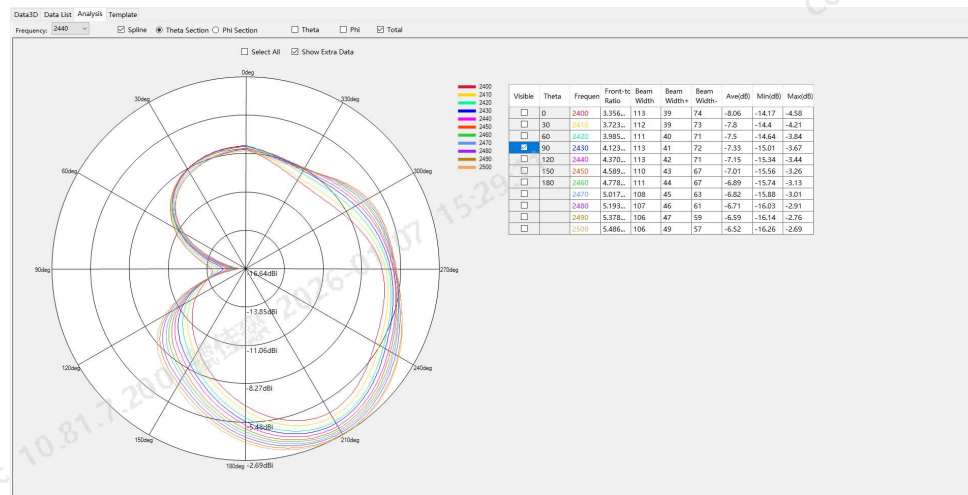
3D Antenna radiation pattern: (R-free)



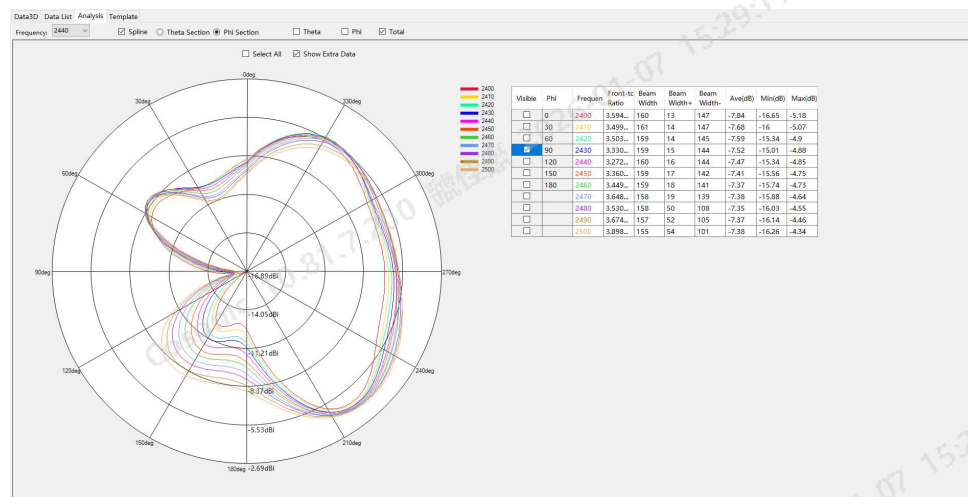


2D Antenna radiation pattern: (R-free)

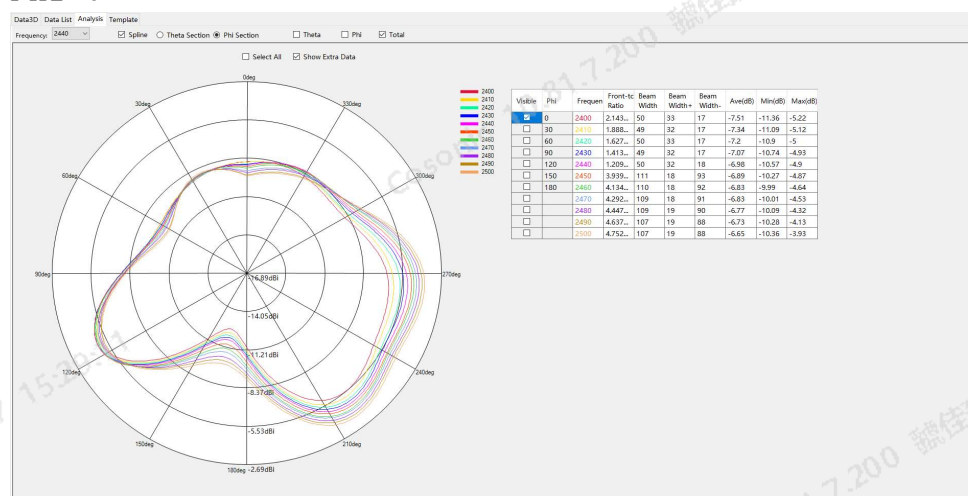
Theta = 90°



Phi=90°

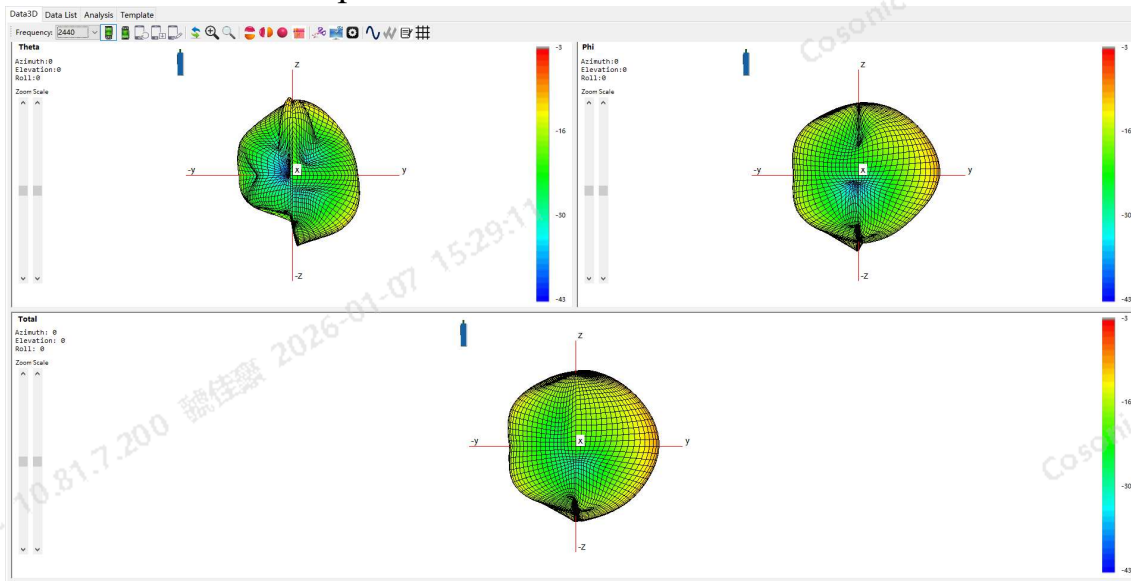


Phi=0°



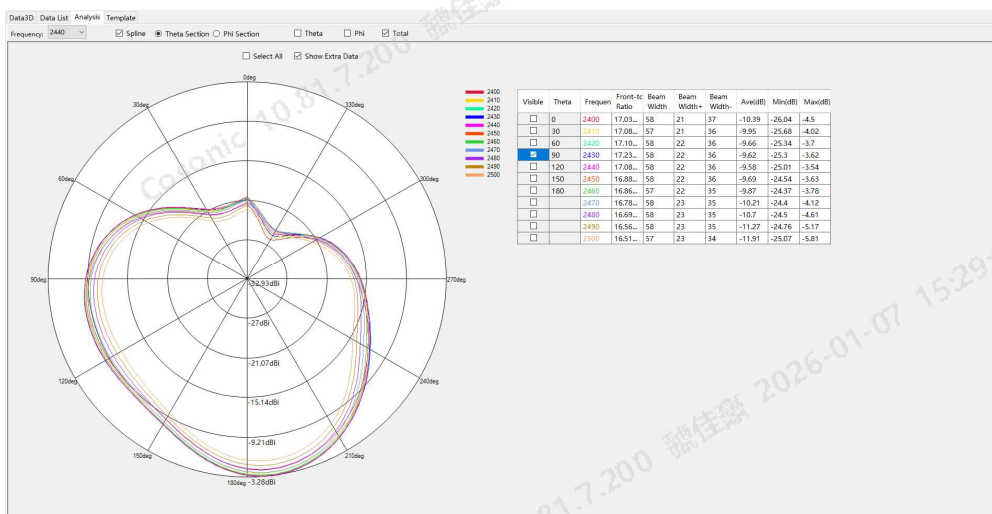


3D Antenna radiation pattern: (R-head model)



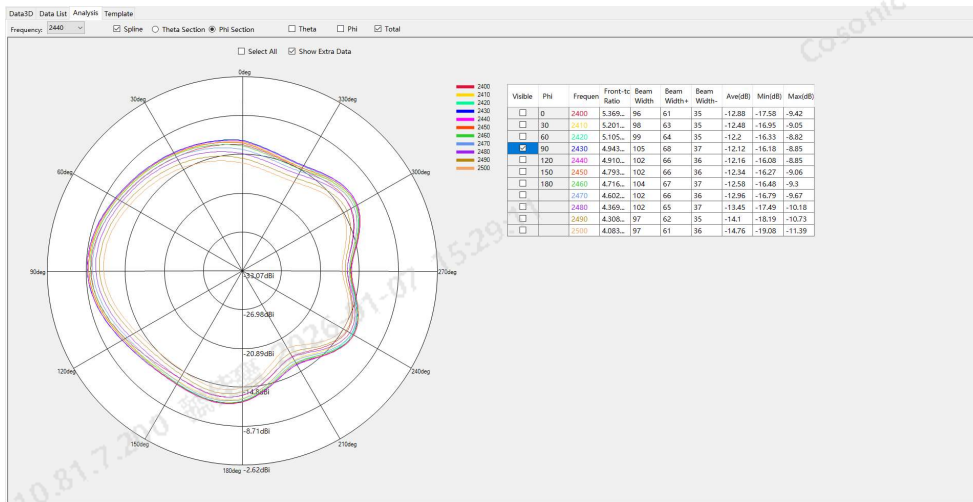
2D Antenna radiation pattern: (R-head model)

Theta = 90°

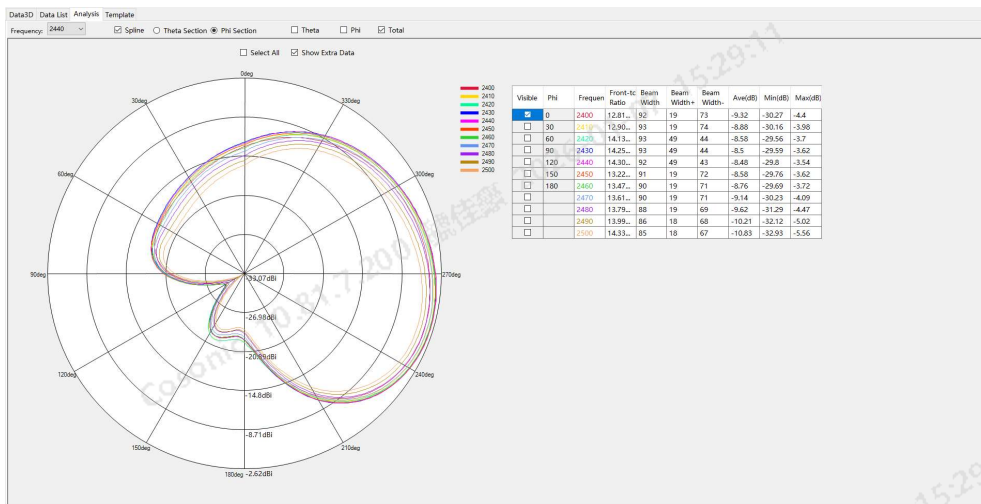




Phi=90°



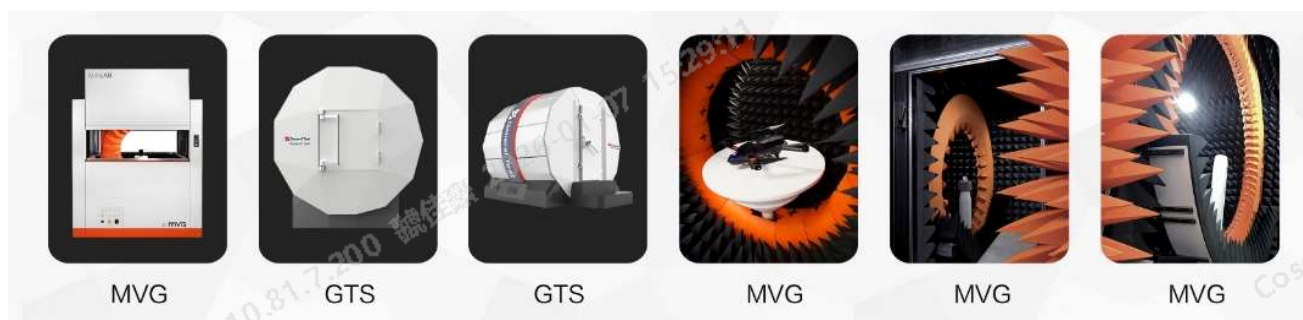
Phi=0°





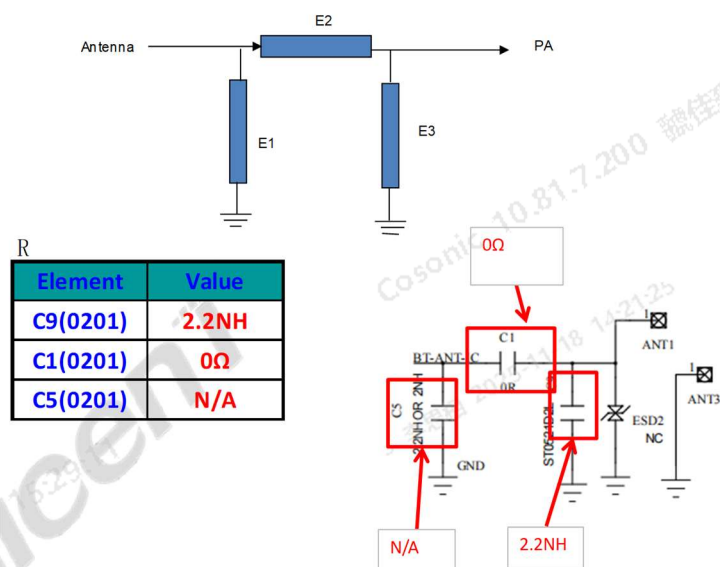
II: 3D Active test report of antenna

		free		head model	
	Channel	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
R	CH 0	4.2	-87.7	-3.0	-80.5
	CH 39	4.2	-90.6	-2.5	-81.8
	CH 78	4.0	-89.7	-5.1	-80.6



OTA Standard Chamber

III: Antenna matching circuit





IV: Antenna structure diagram file

