



Antenna Part Specification

Project name:	CE-2269N
Antenna name:	L-BT antenna
Antenna type:	PIFA
Version:	V2.0
Date:	2026.7.13
Manufacturer:	Shenzhen Cicent Communication Technology Co., Ltd.
Manufacturer address:	505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china



Contents

I: The report of passive data	3
II: 3D Active test report of antenna	6
III: Antenna matching circuit	6
IV: Antenna structure diagram file	7

Change record			
Compile / change date	Reason for change	Changed content	Version
2026.7.6	First edition	First edition	V1.0
2026.7.13	Antenna Alteration	Data Update	V2.0

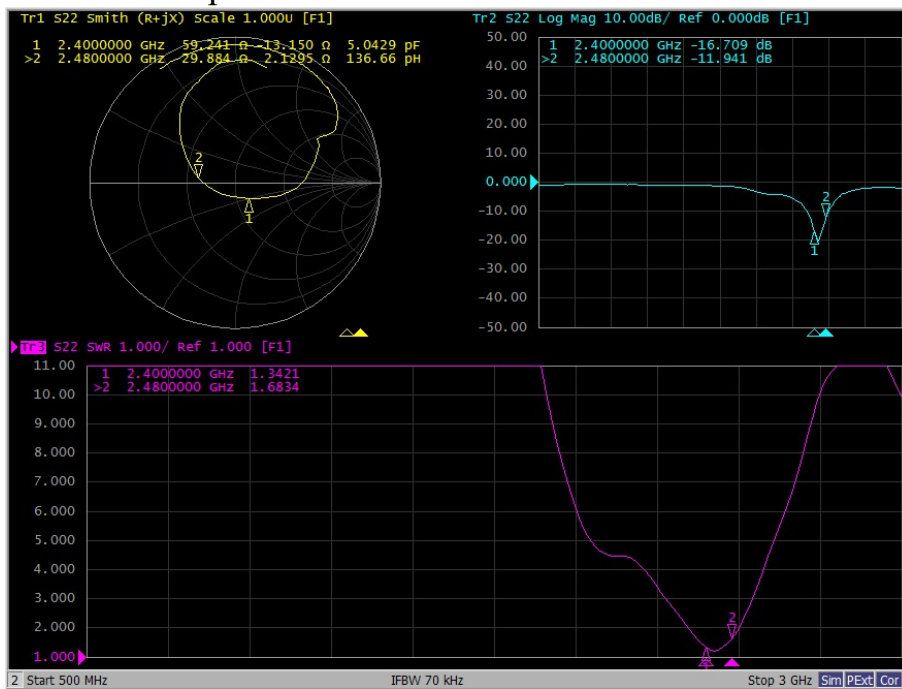


I: The report of passive data



Angilent E5071C

Antenna S11 parameter:





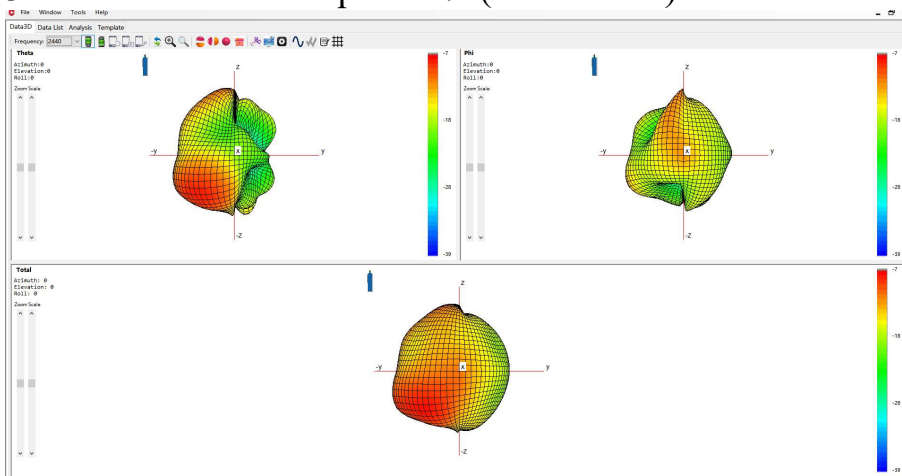
Antenna efficiency and gain: (free)

Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
2400	-6.2	-1.7	24.0
2410	-6.2	-1.6	24.0
2420	-6.2	-1.6	24.0
2430	-6.2	-1.6	23.9
2440	-6.2	-1.5	23.8
2450	-6.2	-1.4	23.8
2460	-6.3	-1.4	23.6
2470	-6.3	-1.5	23.4
2480	-6.4	-1.7	23.1
average	-6.2	-1.6	23.7

Antenna efficiency and gain: (head model)

Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
2400	-12.3	-5.5	5.9
2410	-12.2	-5.4	6.0
2420	-12.1	-5.1	6.1
2430	-12.1	-5.1	6.2
2440	-12.1	-4.8	6.2
2450	-12.0	-4.6	6.3
2460	-12.0	-4.4	6.4
2470	-11.9	-4.3	6.4
2480	-12.0	-4.3	6.4
average	-12.1	-4.8	6.2

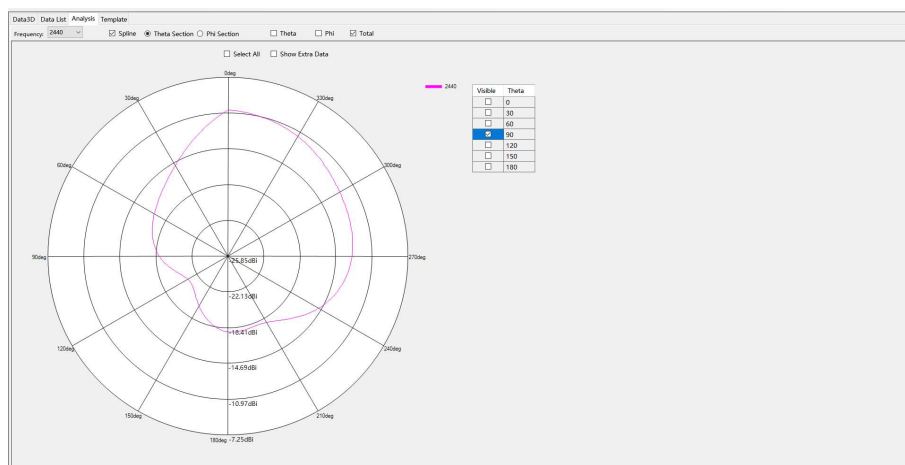
3D Antenna radiation pattern: (head model)



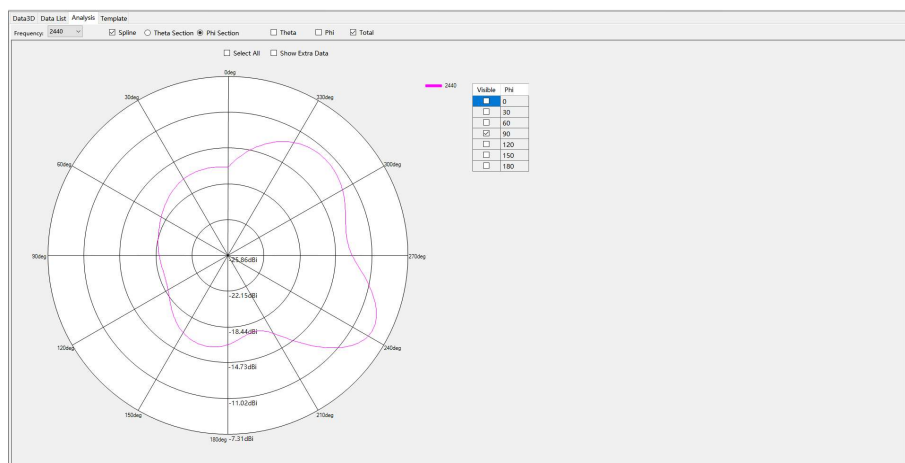


2D Antenna radiation pattern: (head model)

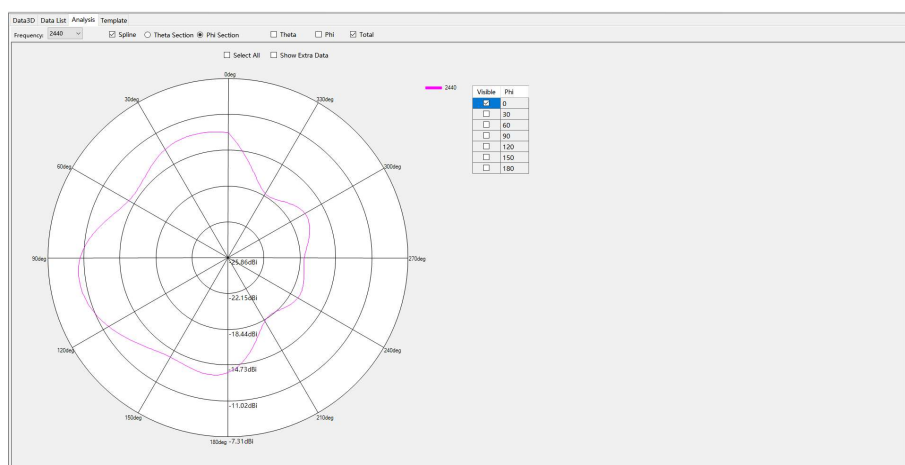
Theta = 90°



Phi=90°



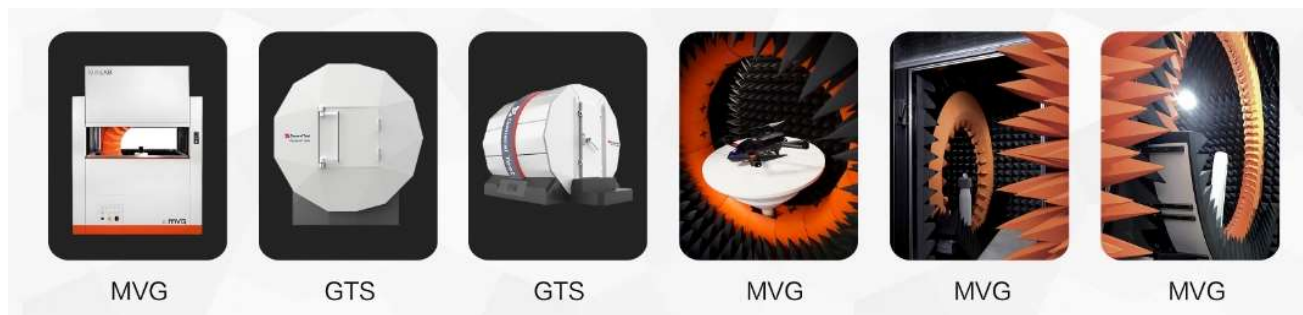
Phi=0°





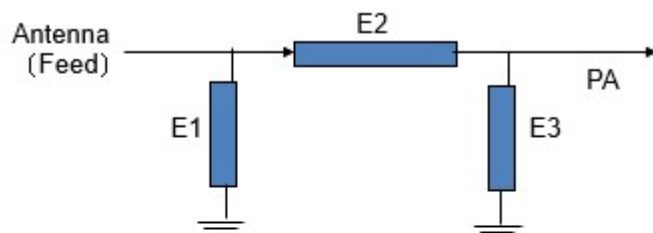
II: 3D Active test report of antenna

		free		head model	
	Channel	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
L	CH 0	3.4	-88.2	-4.6	-84.0
	CH 39	4.0	-89.4	-2.0	-83.8
	CH 78	2.6	-88.2	-2.6	-83.6



OTA Standard Chamber

III: Antenna matching circuit



Number	matching value
E1	0.8pF
E2	0Ω
E3	N/A



IV: Antenna structure diagram file

