



Antenna Part Specification

Customer name:	Cosonic Intelligent Technologies Co., Ltd.
Project name:	CE-2205N(T40)
Material category:	L-FPC
Antenna type:	monopole
Version:	V2.0
Date:	2024.10.21
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	2
II: Matching circuit	5
III: Structure file	6

Change record			
Compile / change date	Reason for change	Changed content	Version
2024.04.25	First edition	First edition	V1.0
2024.10.21	Antenna optimization	Antenna optimization	V2.0

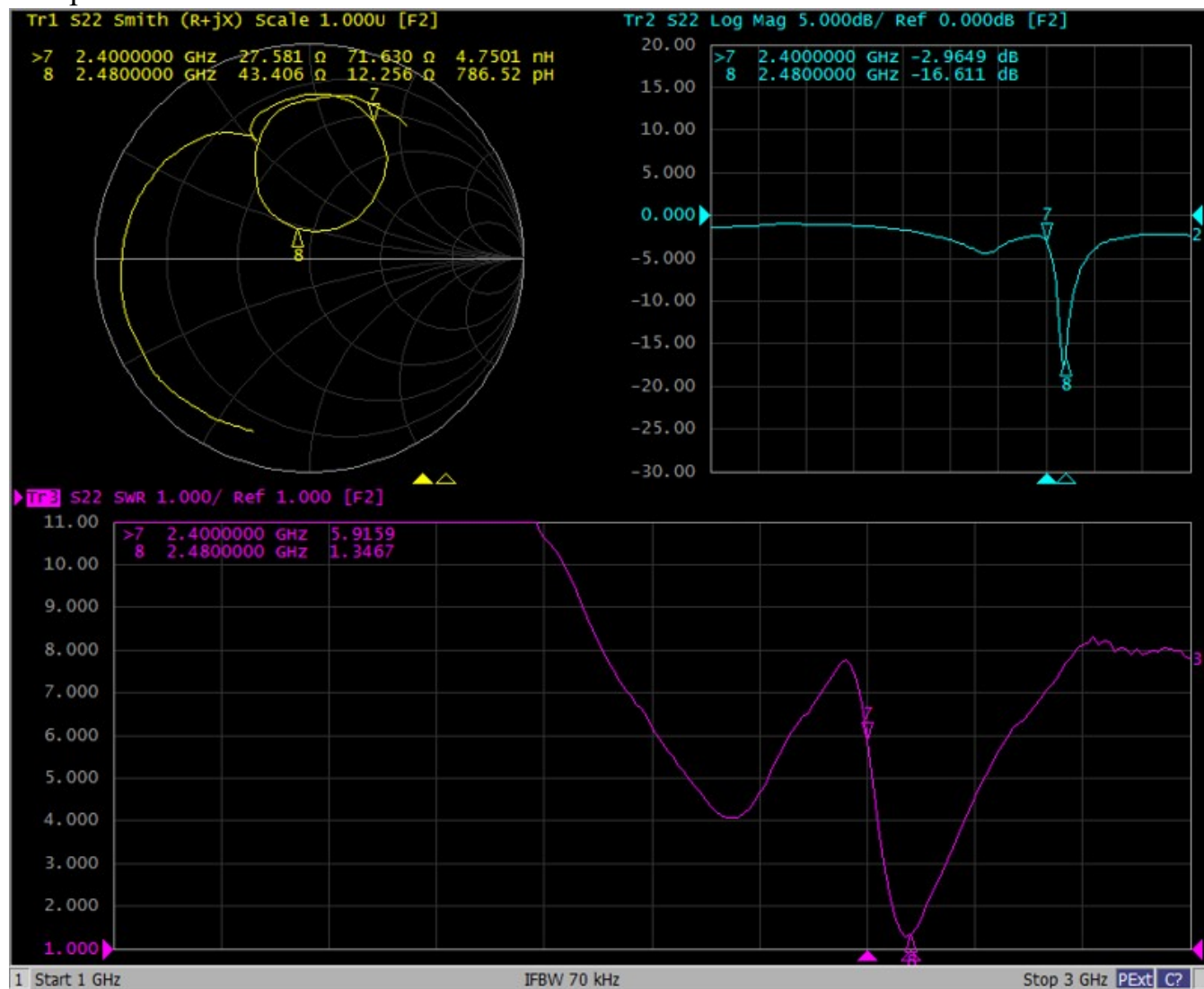


I: The report of passive data



Angilent E5071C

S11 parameter:





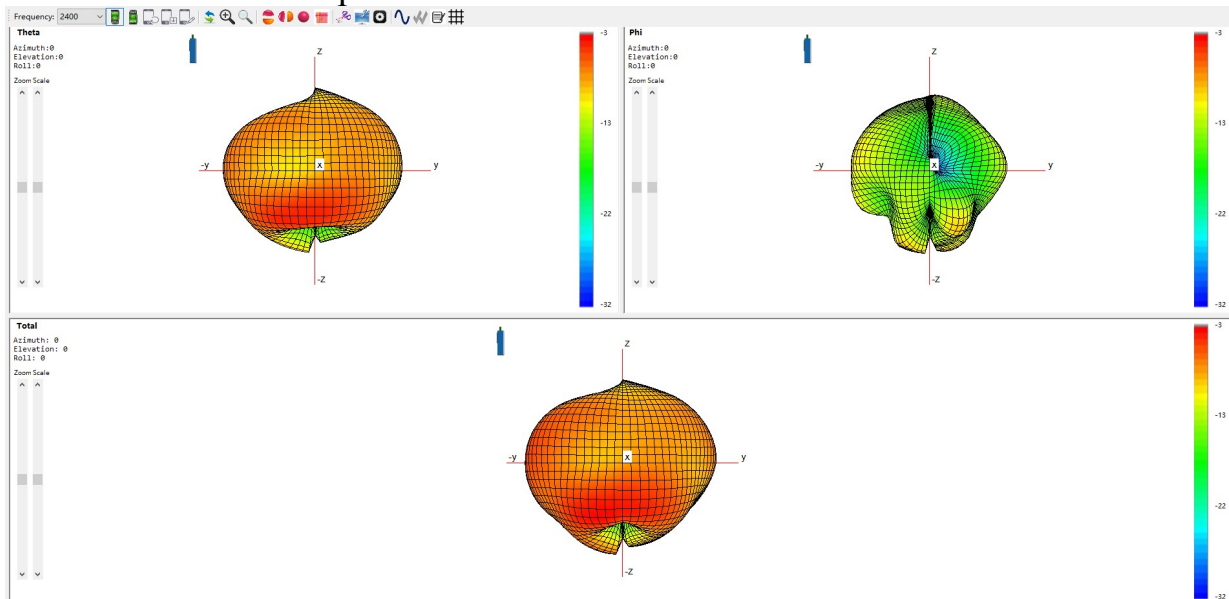
Efficiency:

L			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	7.6	-11.2	-8.1
2410	9.5	-10.2	-7.2
2420	11.2	-9.5	-6.8
2430	12.7	-9.0	-6.3
2440	15.3	-8.2	-5.3
2450	17.3	-7.6	-4.5
2460	20.5	-6.9	-3.4
2470	23.5	-6.3	-2.5
2480	23.9	-6.2	-2.3
Average value	15.7	-8.3	-5.2

2400~2480MHz:

Peak Gain:-2.3dBi Min Gain:-8.1dBi Avg Gain:-5.2dBi

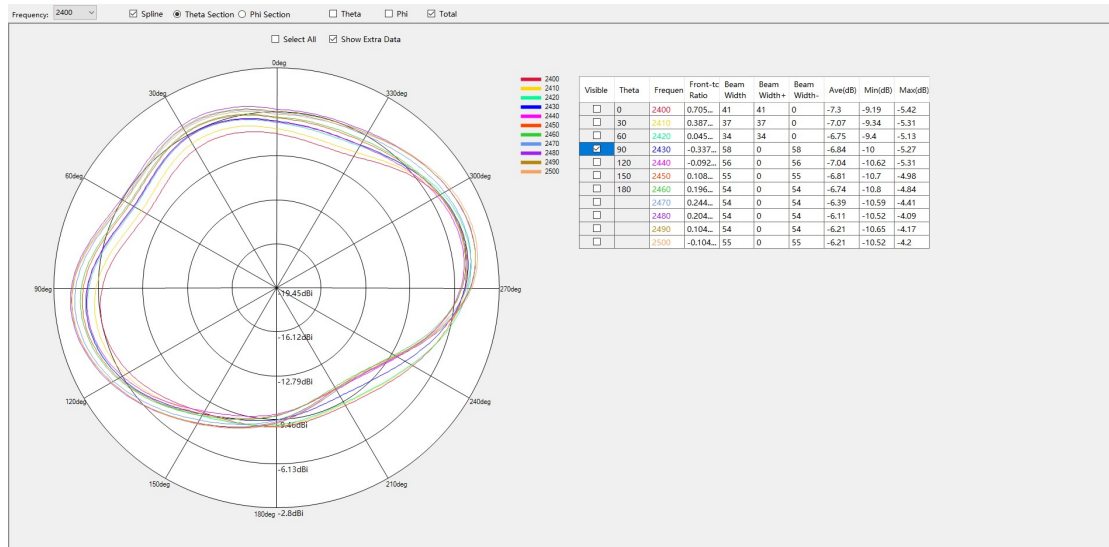
3D Antenna radiation pattern:



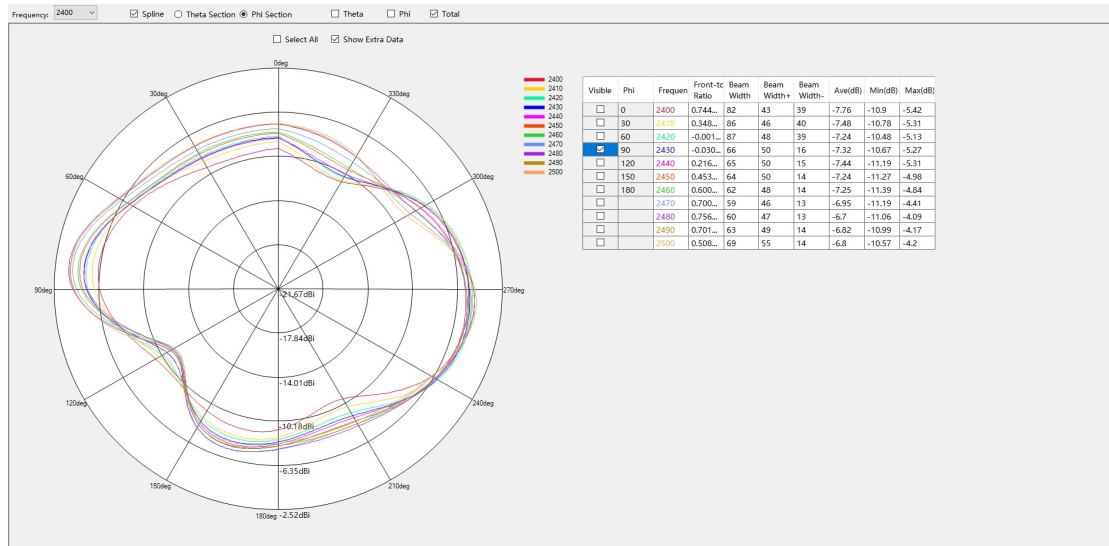


Antenna radiation pattern:

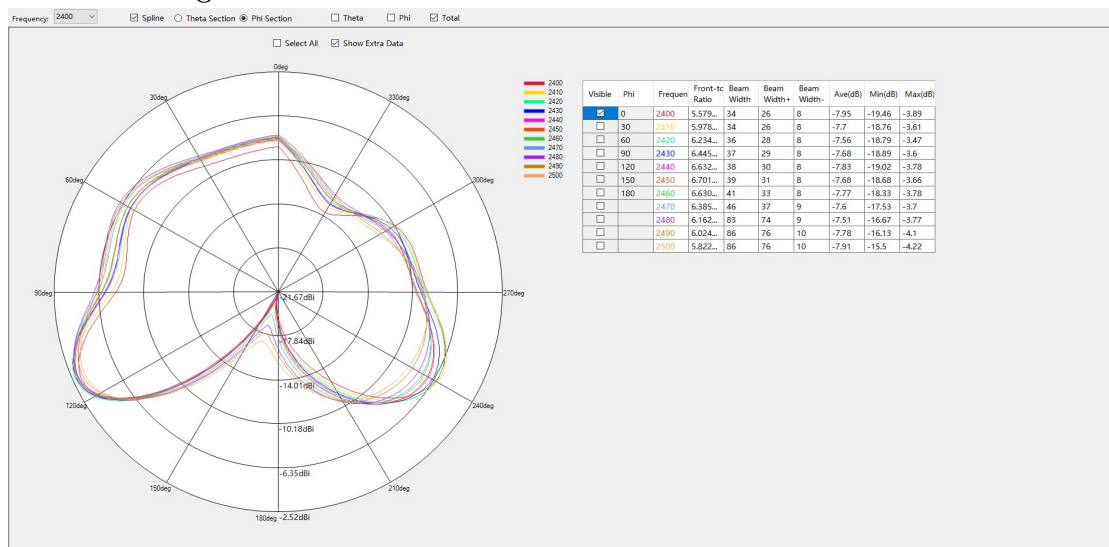
Theta=90.00deg



Phi=90.00deg



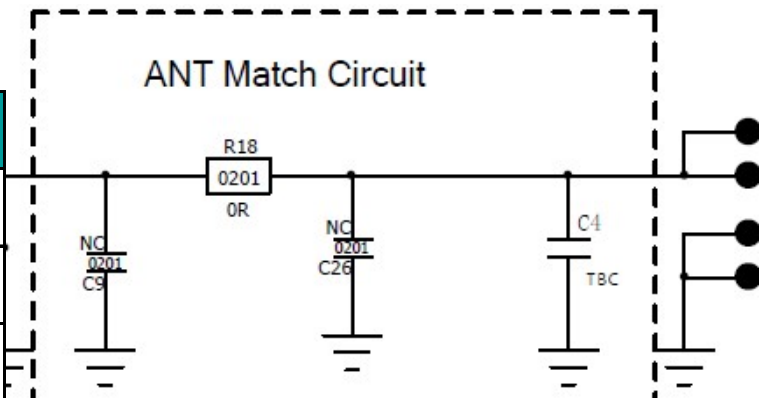
Phi=0.00deg





II: Matching circuit

Element	Value
C26	N/C
R18	0 Ω
C9	N/C



Technical drawing showing two views of a component, labeled "Heads" and "Tails".

The top view, labeled "Heads", shows a circular head with a central hole. The diameter of the head is indicated as $\varnothing 11.4$. The diameter of the central hole is indicated as $\varnothing 2.20 \pm 0.05$. A note indicates "Black ink on the surface Character Silk Screen White".

The bottom view, labeled "Tails", shows the tail section of the component. The width of the tail is indicated as $*10.73 \pm 0.2$. The length of the tail is indicated as $*10.19 \pm 0.2$.

Below the drawings is a table with technical specifications:

Shenzhen Client Communication Technology Co., Ltd.									
Symbol		the third angle projection method		Material no.		Model			
Note: tolerances are at the end of two standard						Type		CE-2205N	
		Date		2024/10/24		Page		1/1	
		Design		Rev		Revision		THQ	
		Material							
		Unit							
		Scale							
		Version							
		T.A.							