



Antenna Part Specification

Project name:	A6201
Antenna name:	FPCB Antenna
Version:	V1.0
Date:	2025.9.2
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	13
III: Antenna matching circuit	14
IV: Antenna structure diagram file	15

Change record			
Compile / change date	Reason for change	Changed content	Version
2025.9.2	First edition	First edition	V1.0

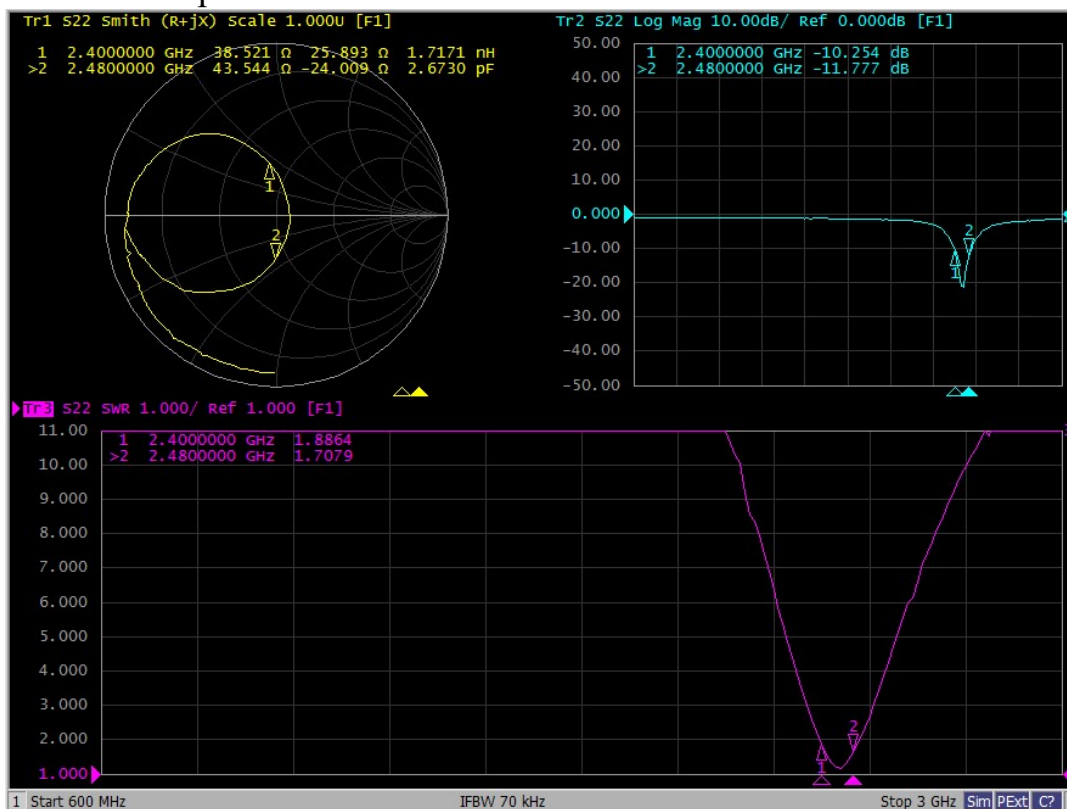


I: The report of passive data



Angilent E5071C

antenna S11 parameter: (L-free)

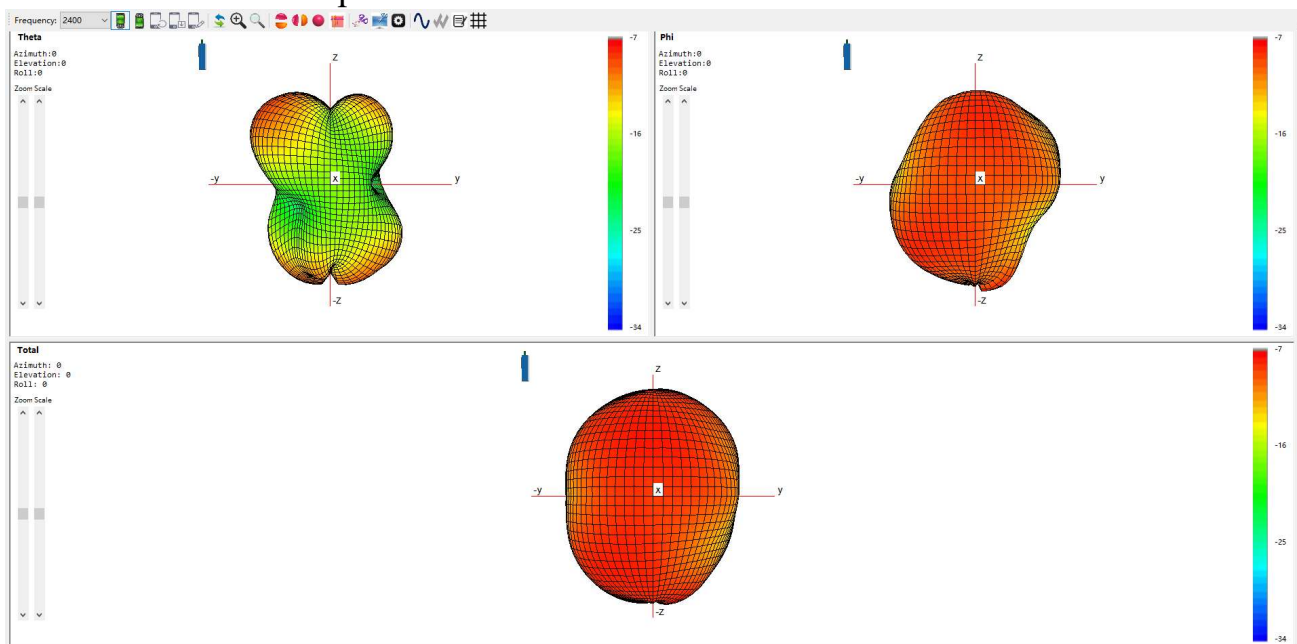




Antenna efficiency and gain: (L-free)

L-free			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-7.6	-8.3	14.7
2410	-7.3	-8.0	15.8
2420	-6.9	-7.8	16.7
2430	-6.7	-7.6	17.3
2440	-6.6	-7.3	18.7
2450	-6.6	-7.5	17.8
2460	-6.6	-7.6	17.6
2470	-6.7	-7.9	16.3
2480	-6.9	-8.2	15.0
2490	-7.1	-8.5	14.2
2500	-7.3	-8.7	13.5
average	-6.9	-7.9	16.1

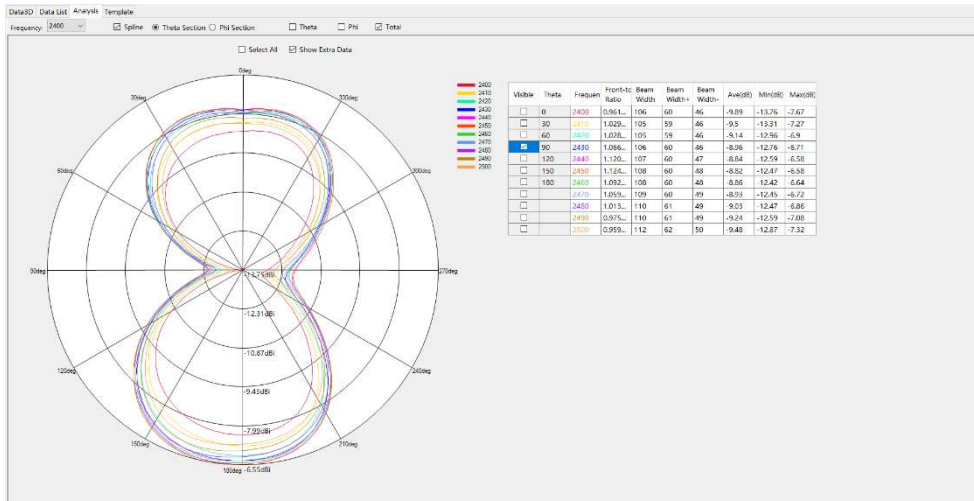
3D Antenna radiation pattern: (L-free)



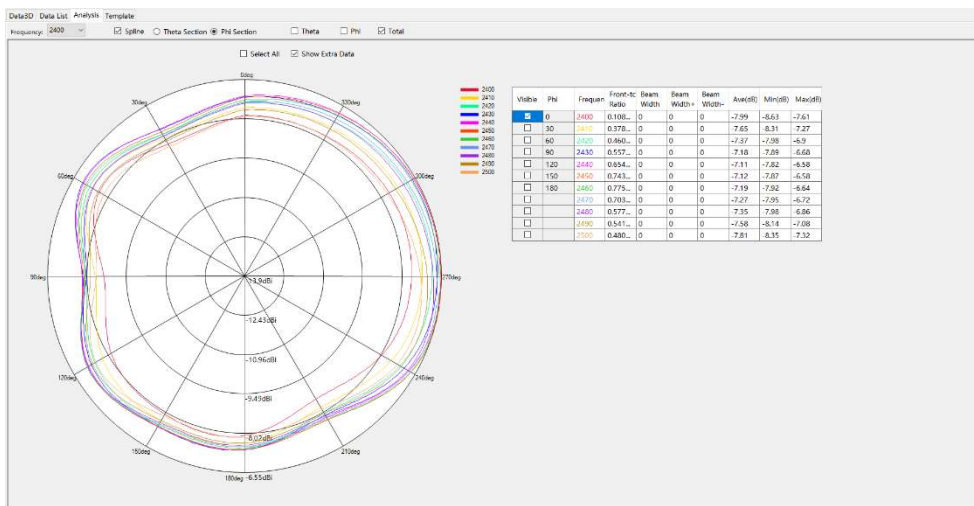


2D Antenna radiation pattern: (L-free)

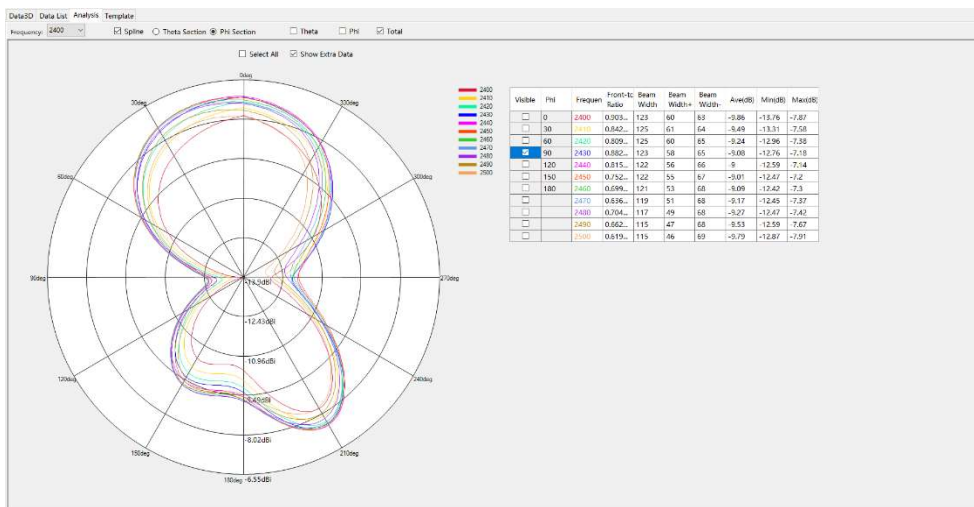
Theta=90°



Phi=0°



Phi=90°

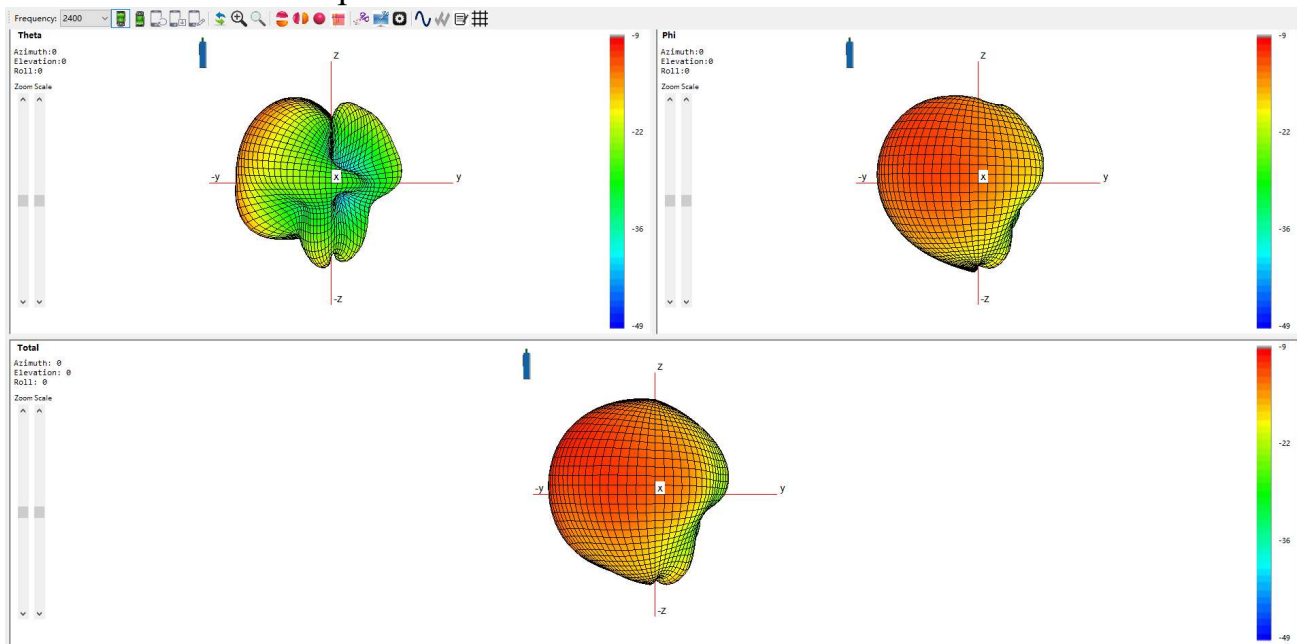




Antenna efficiency and gain: (L- head model)

L- head model			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-9.8	-12.2	6.1
2410	-9.3	-11.9	6.4
2420	-8.9	-11.7	6.8
2430	-8.6	-11.5	7.1
2440	-8.4	-11.3	7.4
2450	-8.2	-11.2	7.5
2460	-8.1	-11.8	6.6
2470	-8.0	-11.8	6.7
2480	-8.0	-11.8	6.7
2490	-8.1	-12.6	5.5
2500	-8.2	-12.7	5.3
average	-8.5	-11.9	6.6

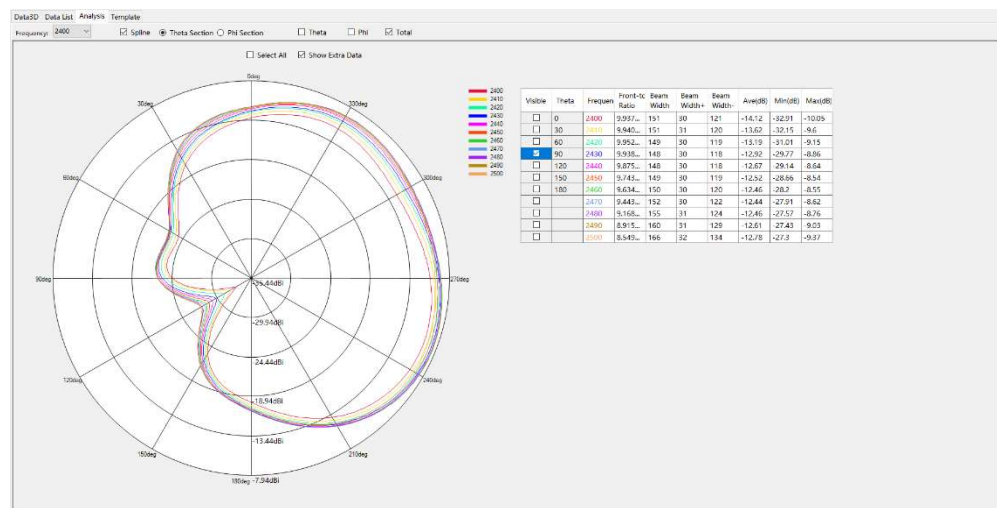
3D Antenna radiation pattern: (L- head model)



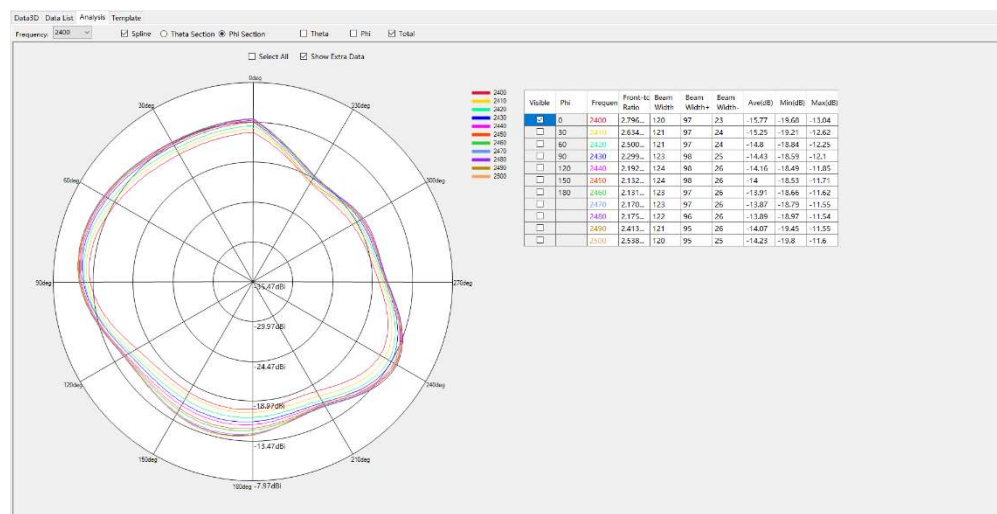


2D Antenna radiation pattern: (L- head model)

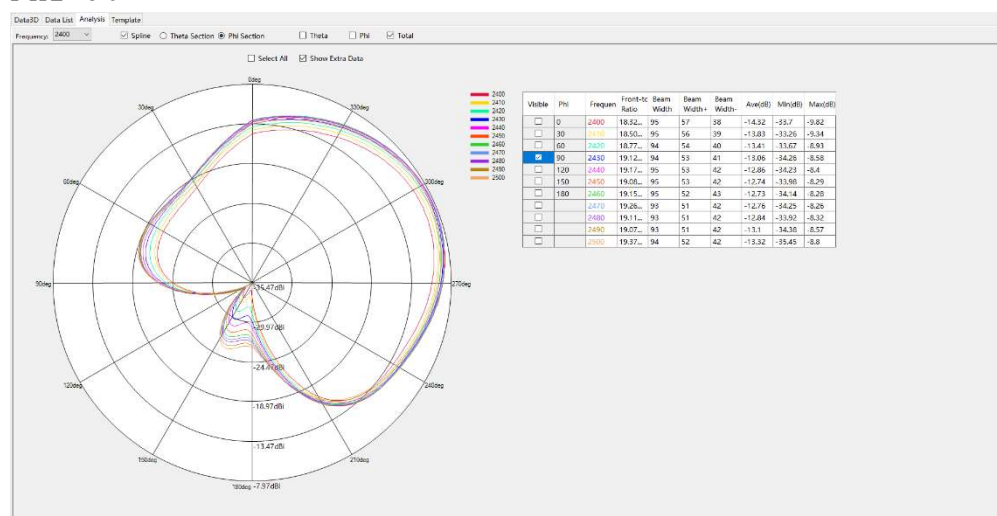
Theta=90°



Phi=0°

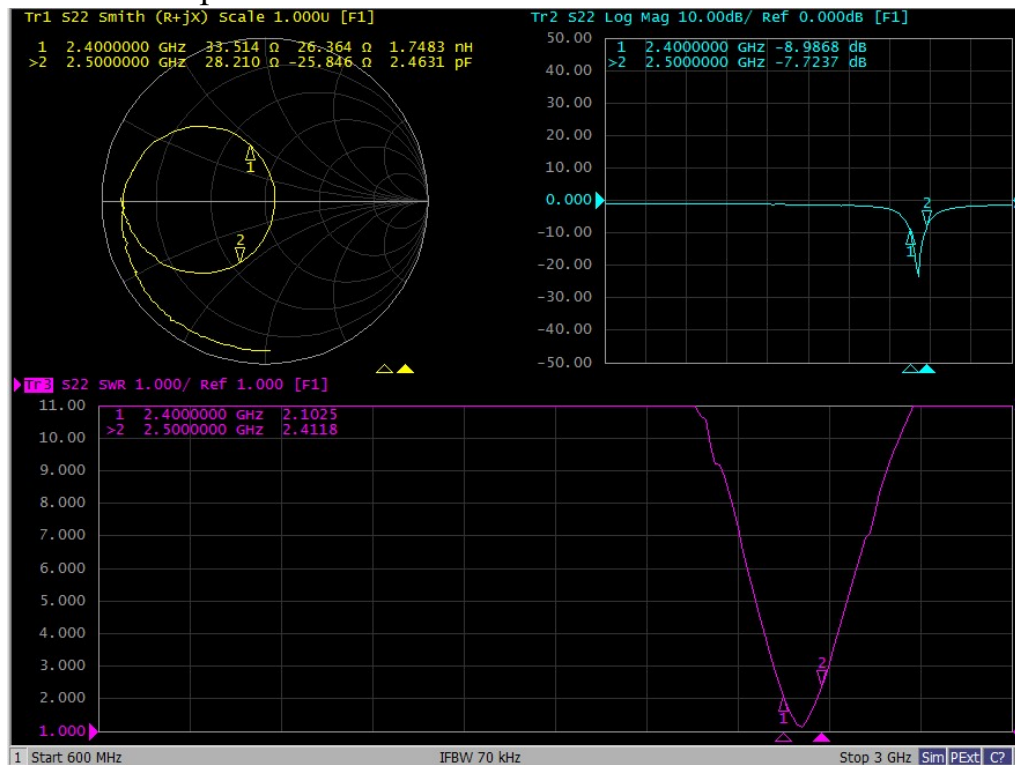


Phi=90°





antenna S11 parameter: (R-free)

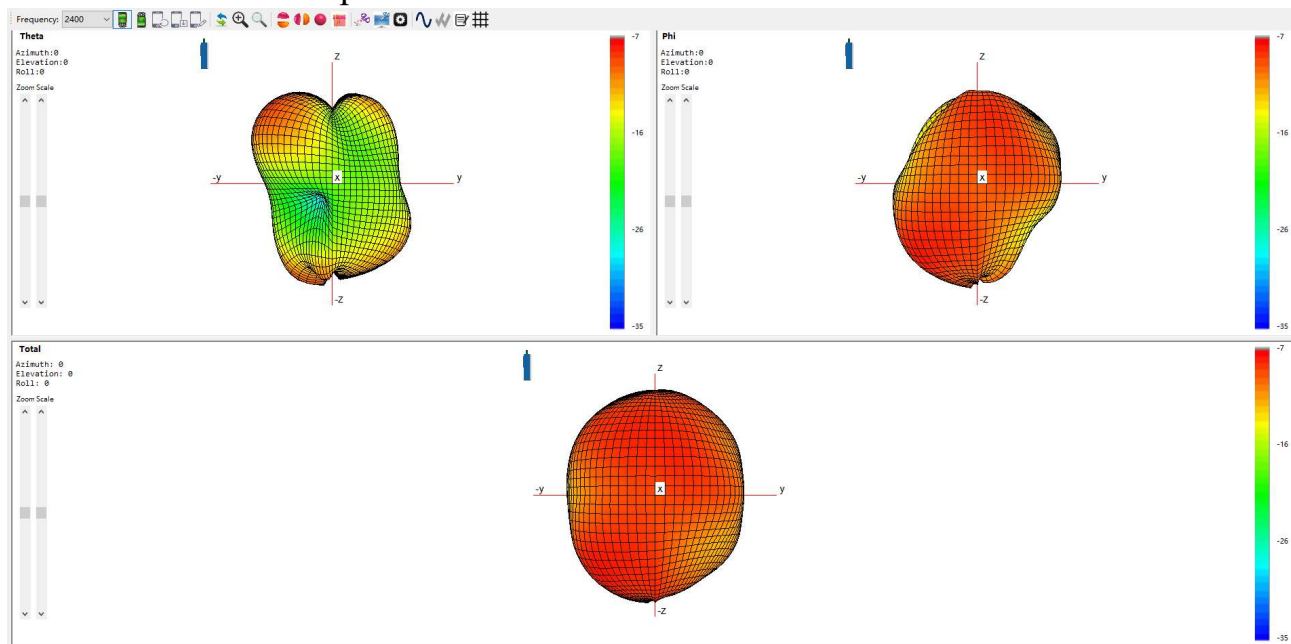


Antenna efficiency and gain: (R-free)

R-free			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-7.7	-8.5	14.2
2410	-7.2	-8.1	15.5
2420	-6.7	-7.8	16.6
2430	-6.4	-7.6	17.6
2440	-6.2	-7.4	18.3
2450	-6.0	-7.5	17.8
2460	-6.0	-7.9	16.1
2470	-6.0	-7.9	16.1
2480	-6.0	-8.0	15.9
2490	-6.2	-8.2	15.2
2500	-6.4	-8.4	14.5
average	-6.4	-7.9	16.2

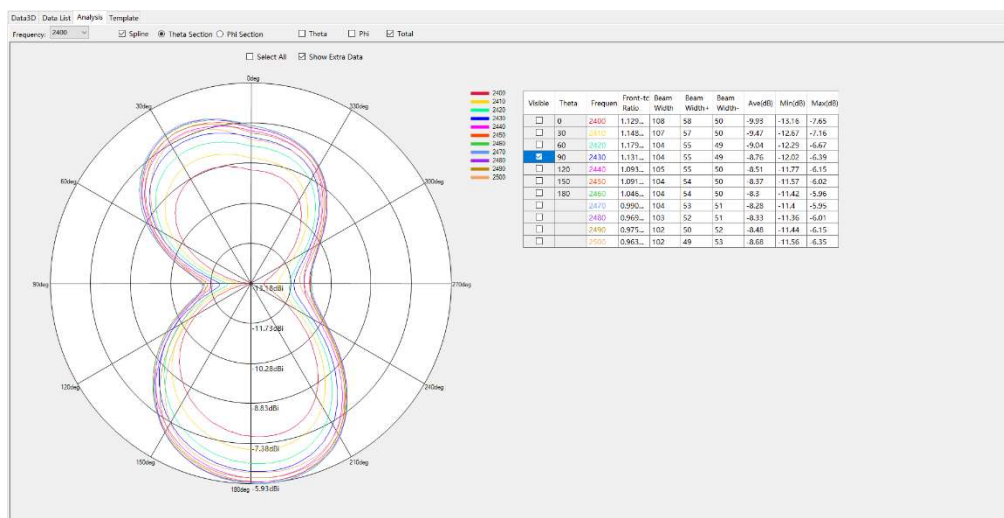


3D Antenna radiation pattern: (R-free)



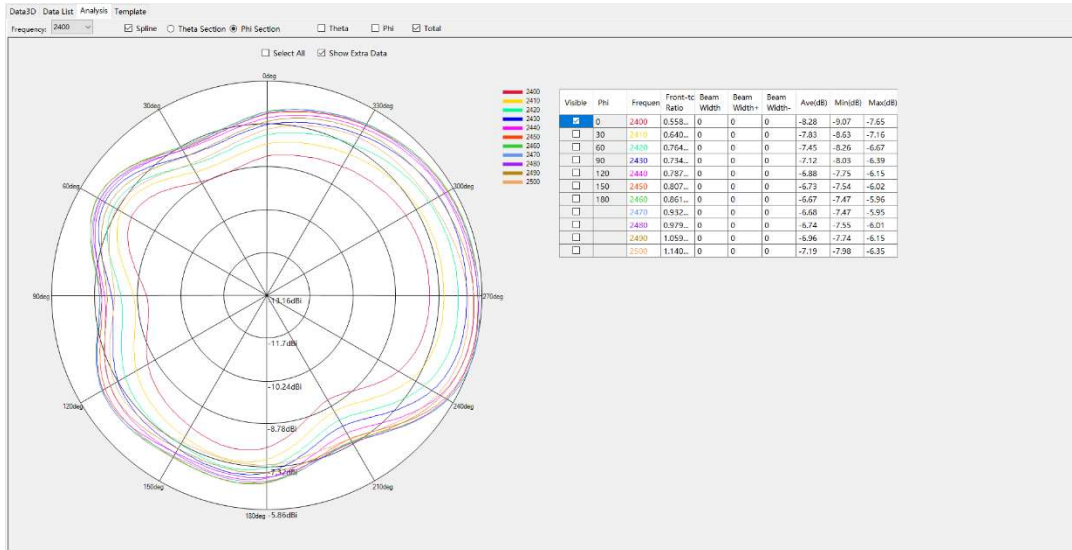
2D Antenna radiation pattern: (R-free)

Theta=90°

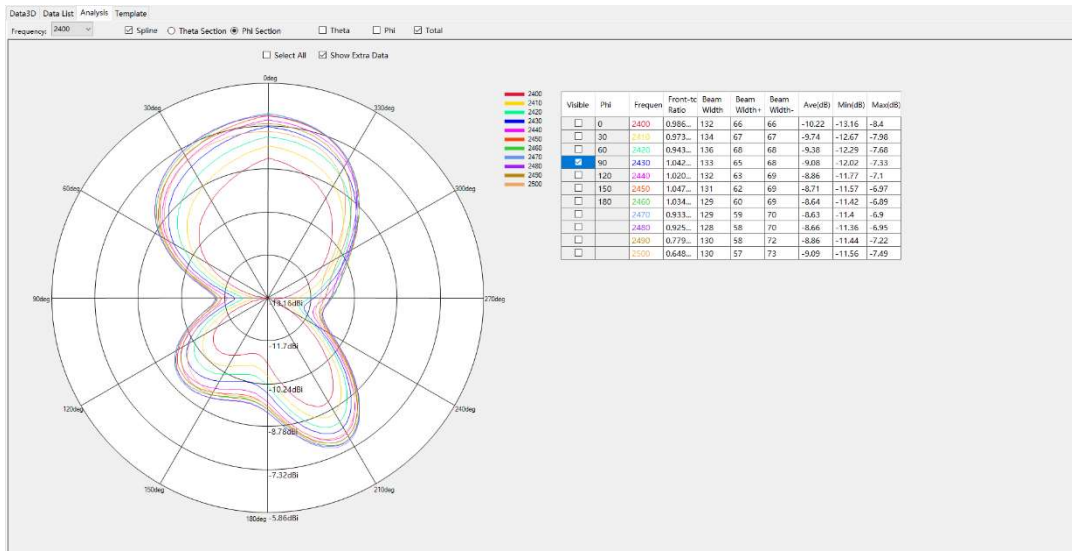




Phi=0°



Phi=90°

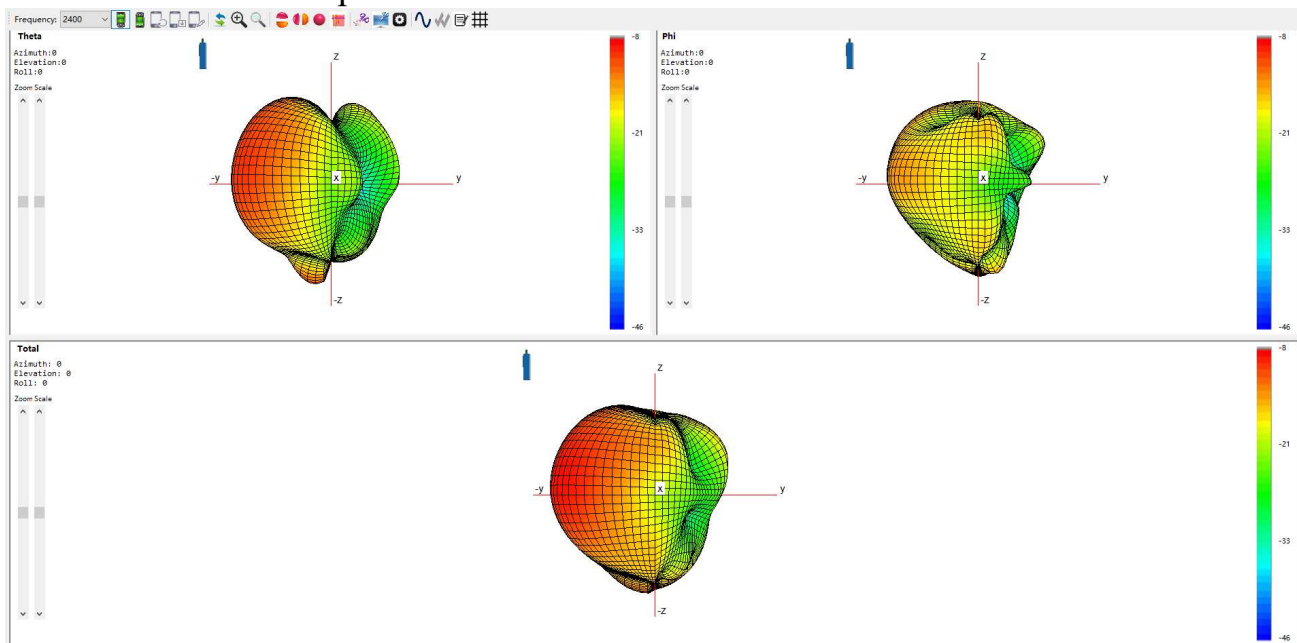




Antenna efficiency and gain: (R- head model)

R- head model			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-8.5	-12.2	6.1
2410	-8.2	-12.0	6.3
2420	-8.0	-11.9	6.4
2430	-8.0	-11.7	6.7
2440	-8.0	-11.6	6.9
2450	-8.0	-11.5	7.0
2460	-8.2	-11.7	6.8
2470	-8.3	-11.8	6.7
2480	-8.6	-11.9	6.4
2490	-8.9	-12.1	6.2
2500	-9.2	-12.3	5.9
average	-8.4	-11.9	6.5

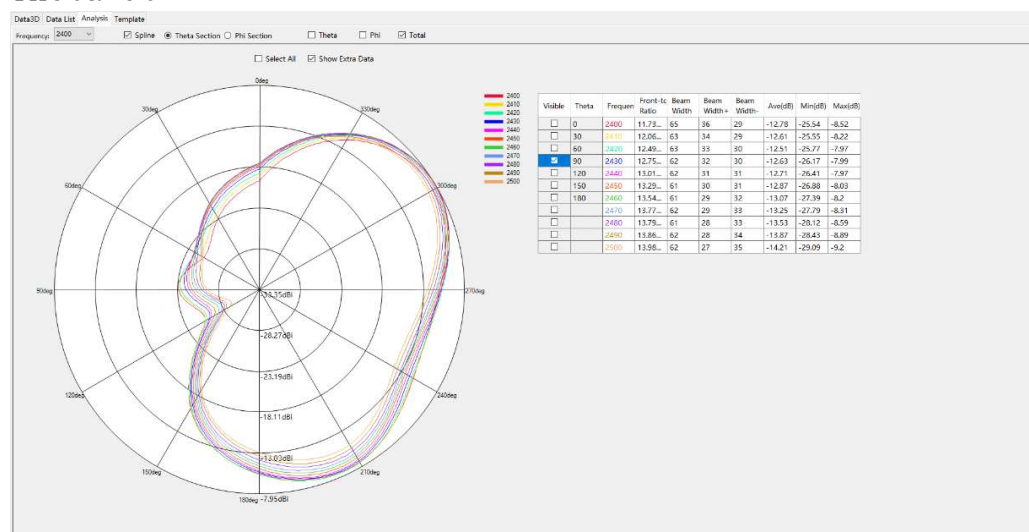
3D Antenna radiation pattern: (R- head model)



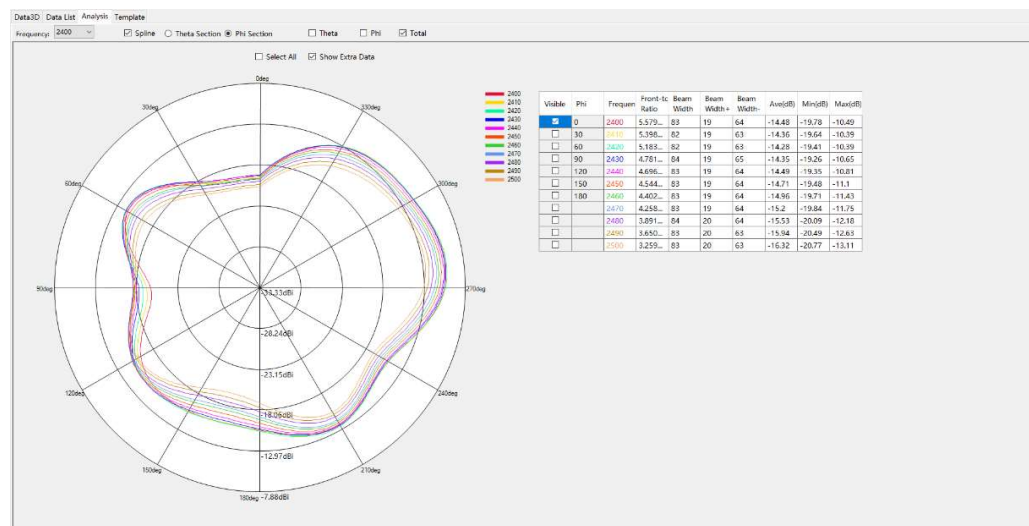


2D Antenna radiation pattern: (R-head model)

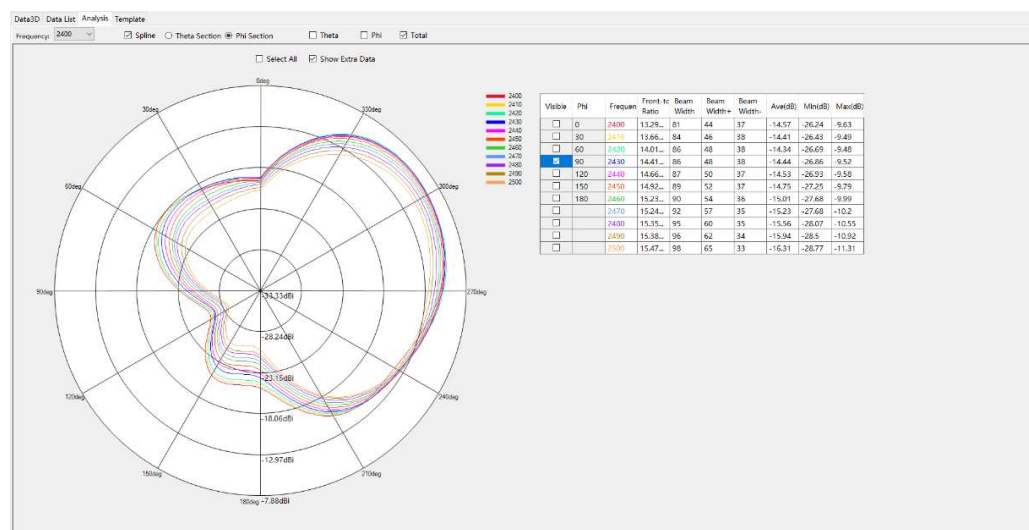
Theta=90°



Phi=0°



Phi=90°

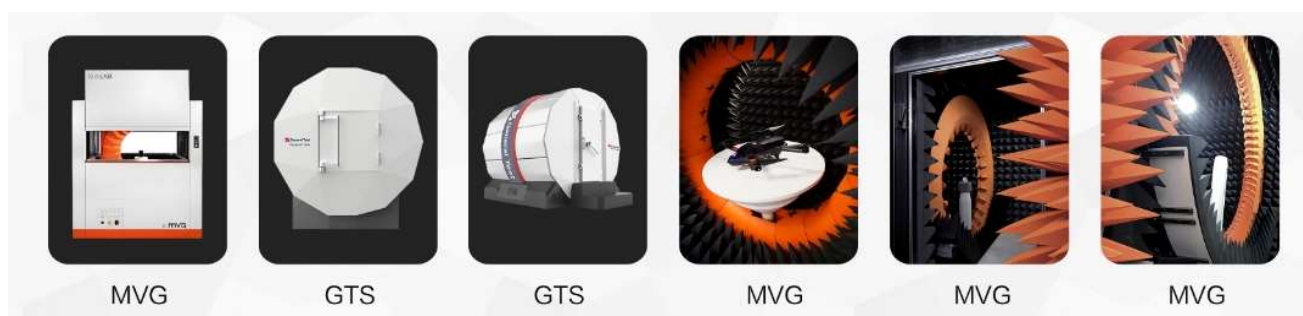




II: 3D Active test report of antenna

		free		head model	
l#	Channel	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
L	CH 0	1.0	-86.5	-2.7	-82.9
	CH 39	1.8	-87.1	-2.0	-83.4
	CH 78	0.7	-86.2	-3.0	-82.4

		free		head model	
l#	Channel	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
R	CH 0	0.9	-86.3	-3.4	-82.0
	CH 39	1.6	-87.0	-2.3	-83.1
	CH 78	1.1	-86.7	-2.8	-82.8



OTA Standard Chamber

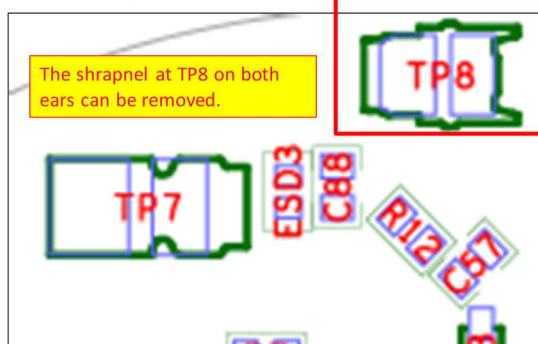


III: Antenna matching circuit

L

R

Element	Value
ESD3(0201)	ESD
C88(0201)	3pF
R12(0201)	0Ω
C57(0201)	N/C



Element	Value
ESD3(0201)	ESD
C88(0201)	3pF
R12(0201)	0Ω
C57(0201)	N/C



IV: Antenna structure diagram file

