



Antenna Part Specification

Project name:	450L
Material category:	WIFI antenna
Manufacturer:	Shenzhen Cicent Communication Technology Co., Ltd.
Manufacturer address:	505-506 ,A Block,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china
Version:	V2.0
Date:	2024.09.14



Contents

I: The report of passive data	3
II: Structure file	9

Change record			
Compile / change date	Reason for change	Changed content	Versio n
2024.7.25	First edition	First edition	V1.0
2024.09.14	Update the testing status of the entire machine	Update the testing status of the entire machine	V2.0

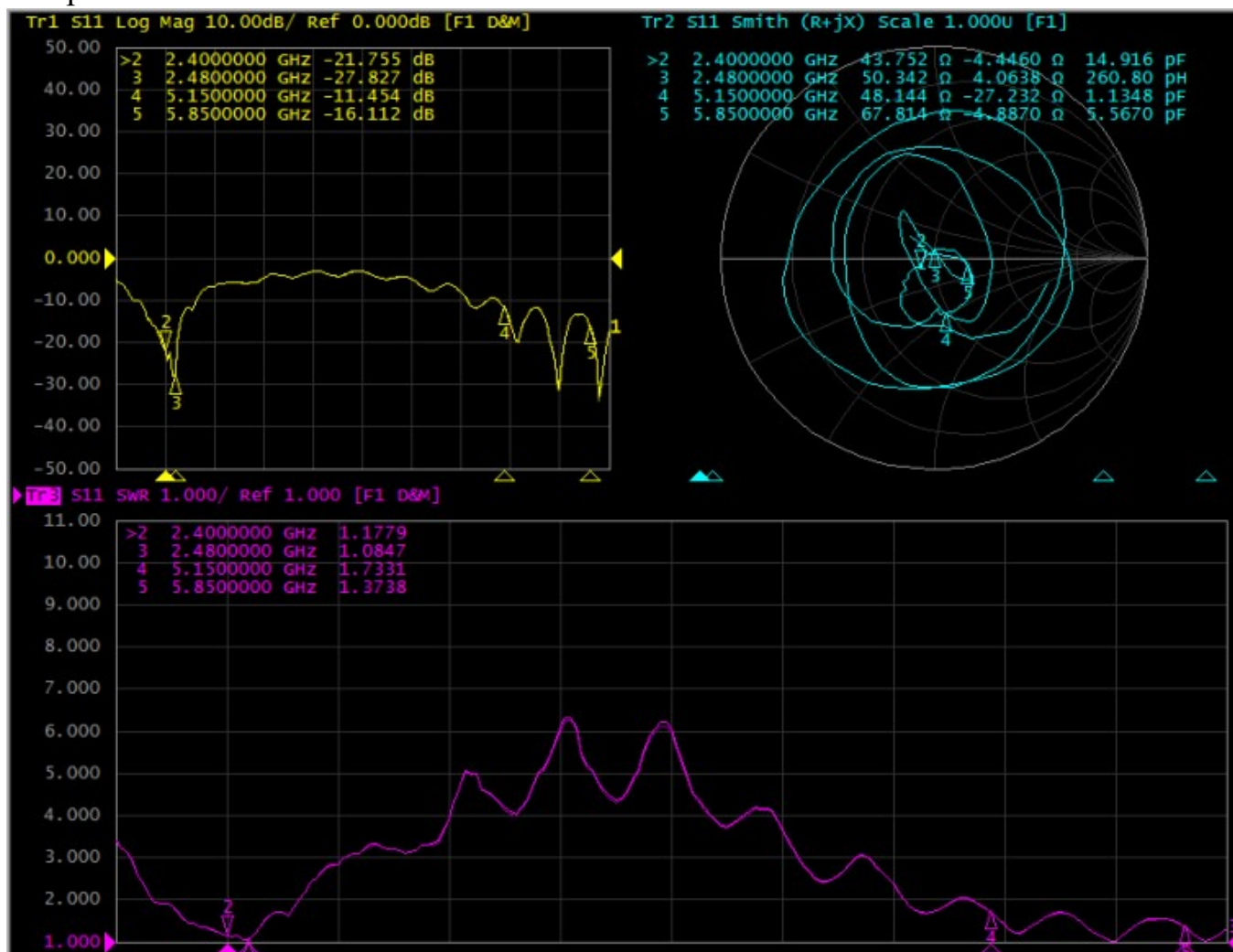


I: The report of passive data



Angilent E5071C

S11 parameters:



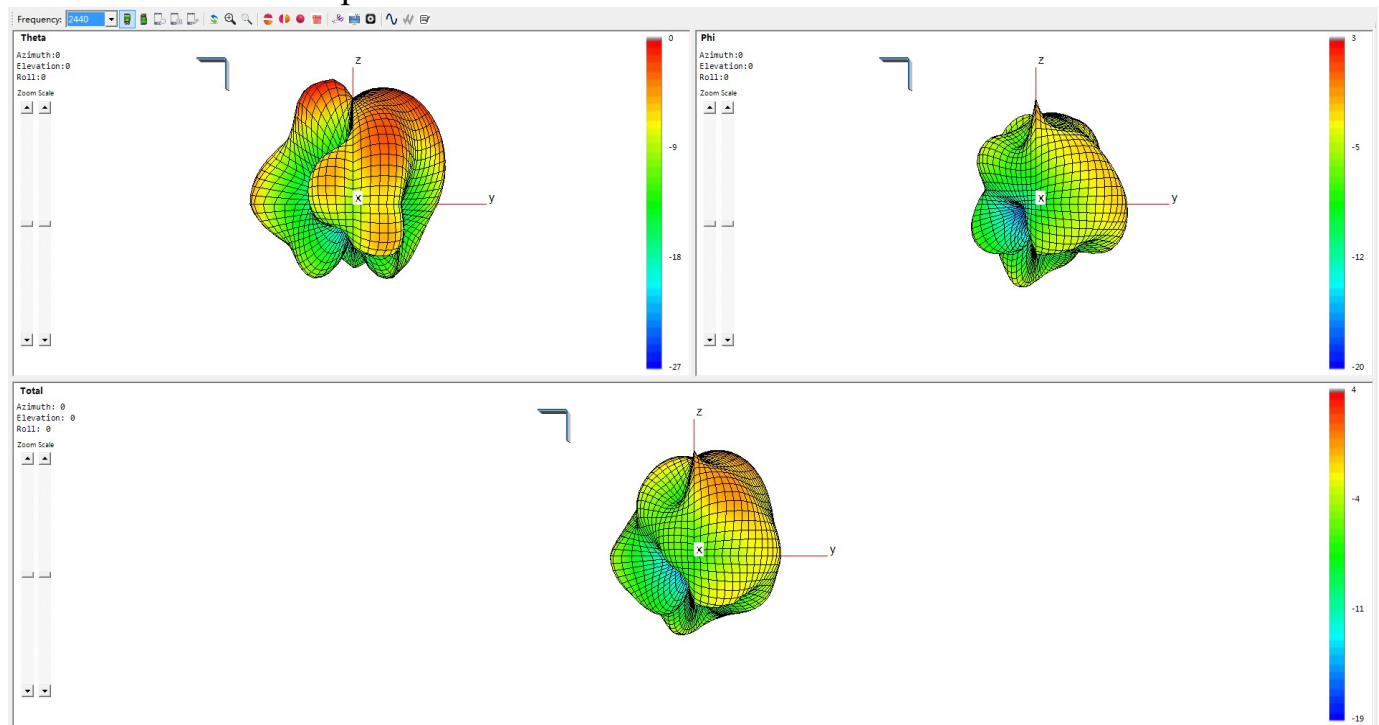


Efficiency: (2.4G)

2.4G WIFI (2400MHz-2480MHz)

Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	3.0	-3.0	50.7
2410	3.1	-3.0	50.6
2420	2.8	-2.9	50.7
2430	2.9	-3.1	48.8
2440	2.7	-3.3	46.5
2450	2.7	-3.3	46.5
2460	2.6	-3.5	45.0
2470	2.6	-3.5	45.1
2480	2.5	-3.5	45.0
Average value	2.7	-3.2	47.7

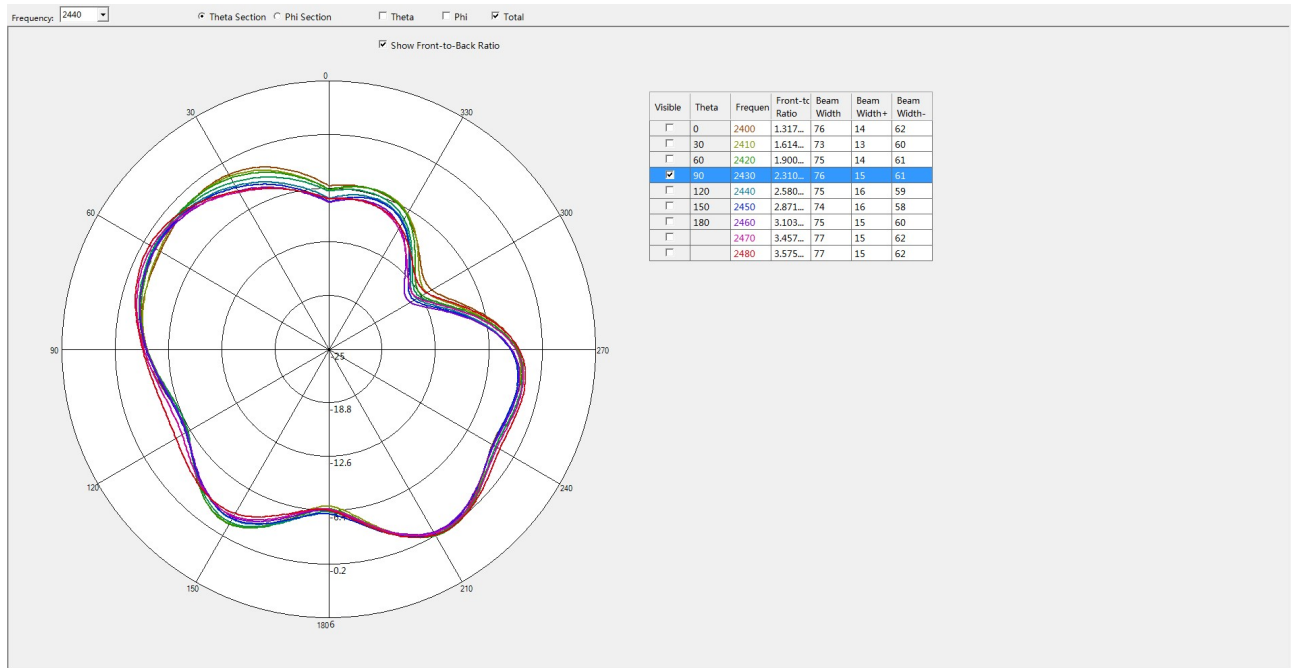
3D Antenna radiation pattern: (2.4G)



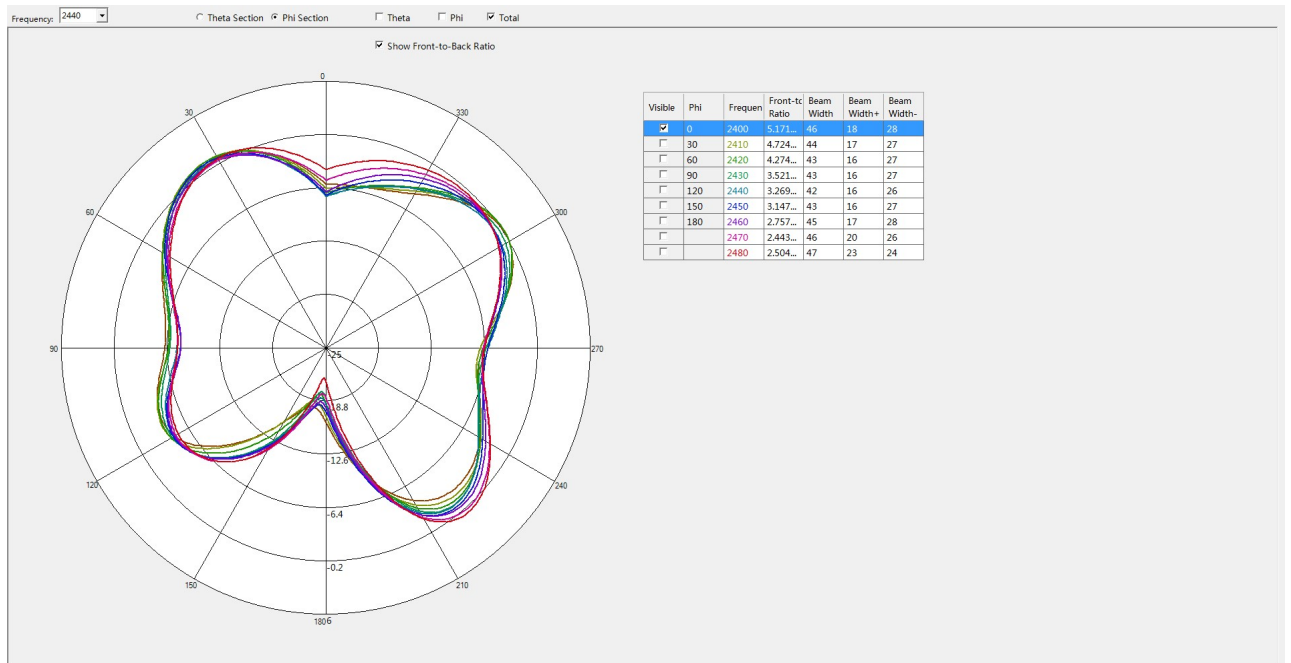


Antenna radiation pattern: (2.4G)

Theta=90°

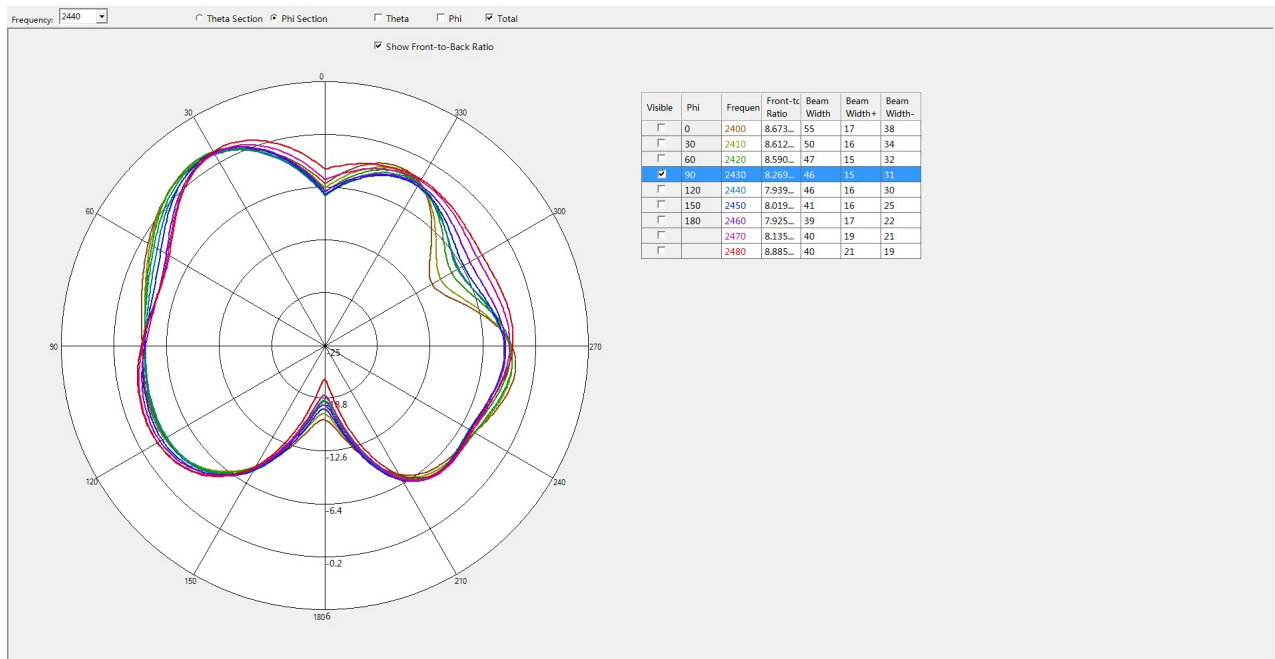


Phi=0°





Phi=90°



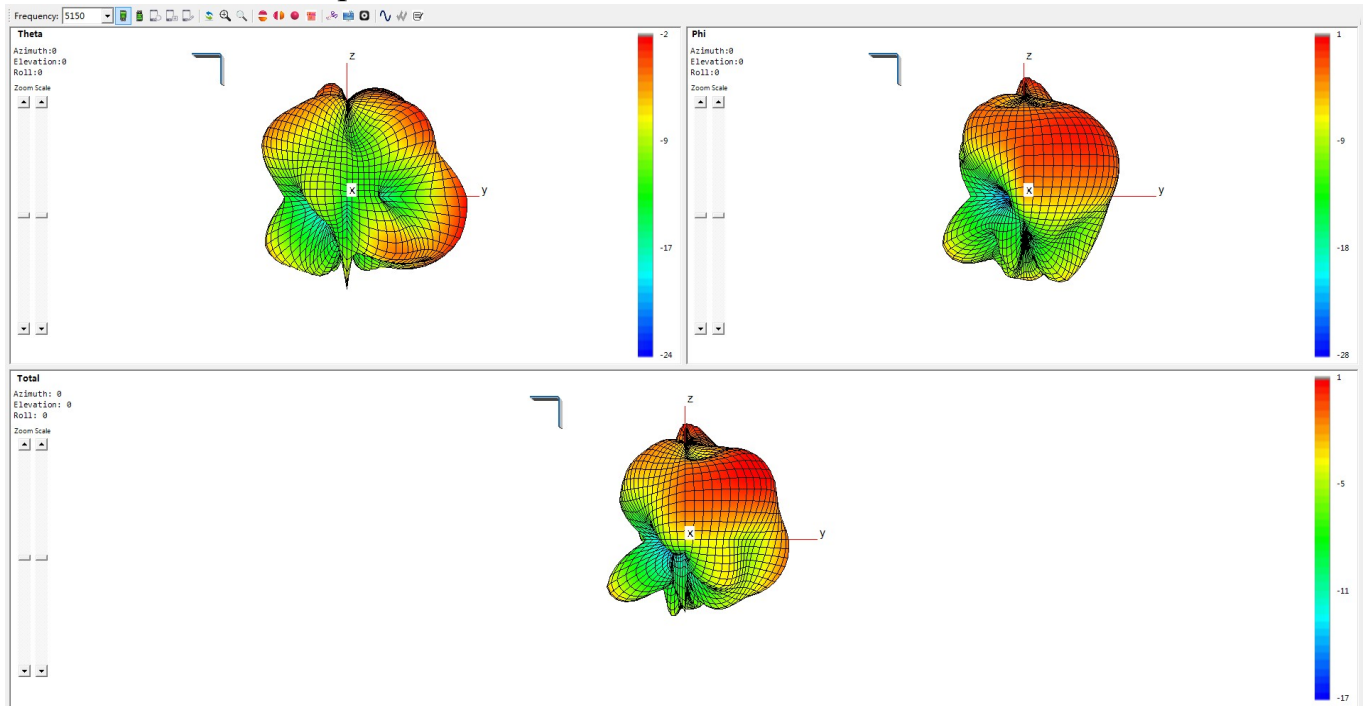
Efficiency: (5G)

5G WIFI (5150MHz-5850MHz)

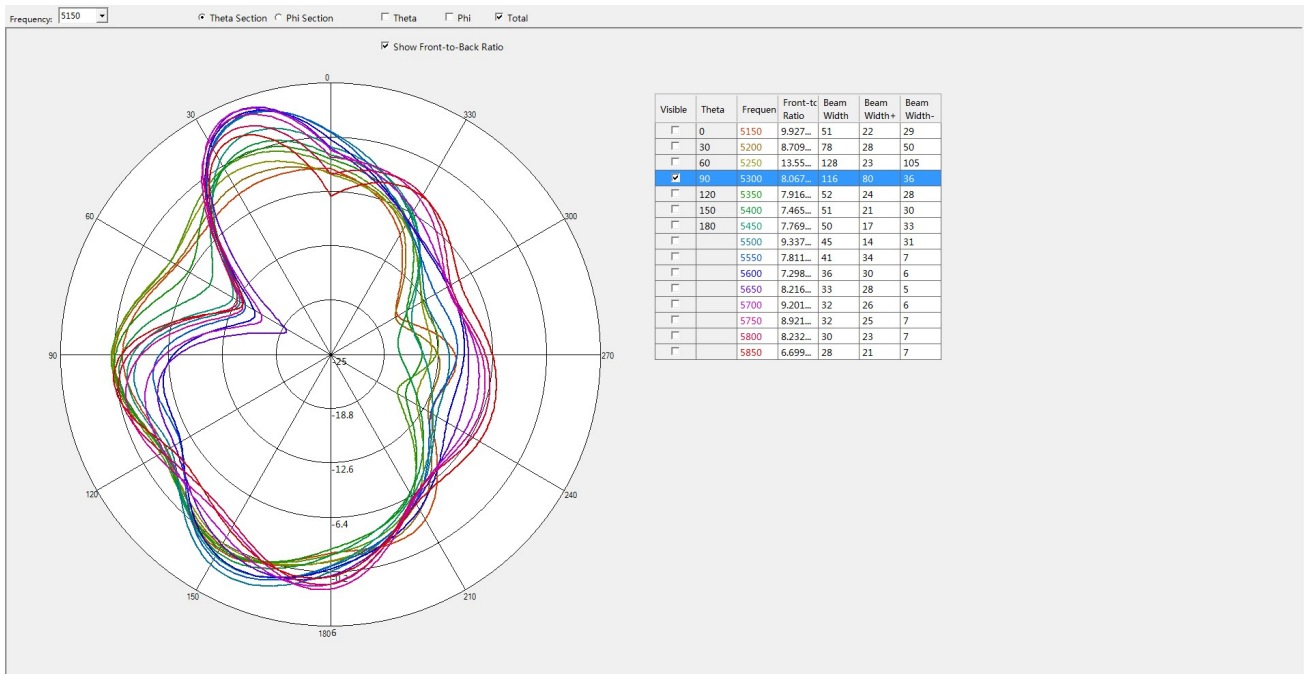
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
5150	0.9	-3.4	45.3
5200	1.1	-3.4	45.7
5250	1.3	-3.2	47.3
5300	1.3	-3.0	50.6
5350	2.0	-3.1	48.8
5400	2.7	-3.2	47.7
5450	2.8	-3.0	50.1
5500	2.7	-2.8	52.5
5550	2.6	-2.9	51.2
5600	2.7	-2.6	54.5
5650	2.9	-2.7	53.9
5700	3.8	-2.4	57.9
5750	4.6	-2.0	62.7
5800	4.1	-2.4	57.5
5850	3.9	-2.6	54.5
Average value	2.6	-2.9	52.0



3D Antenna radiation pattern: (5G)

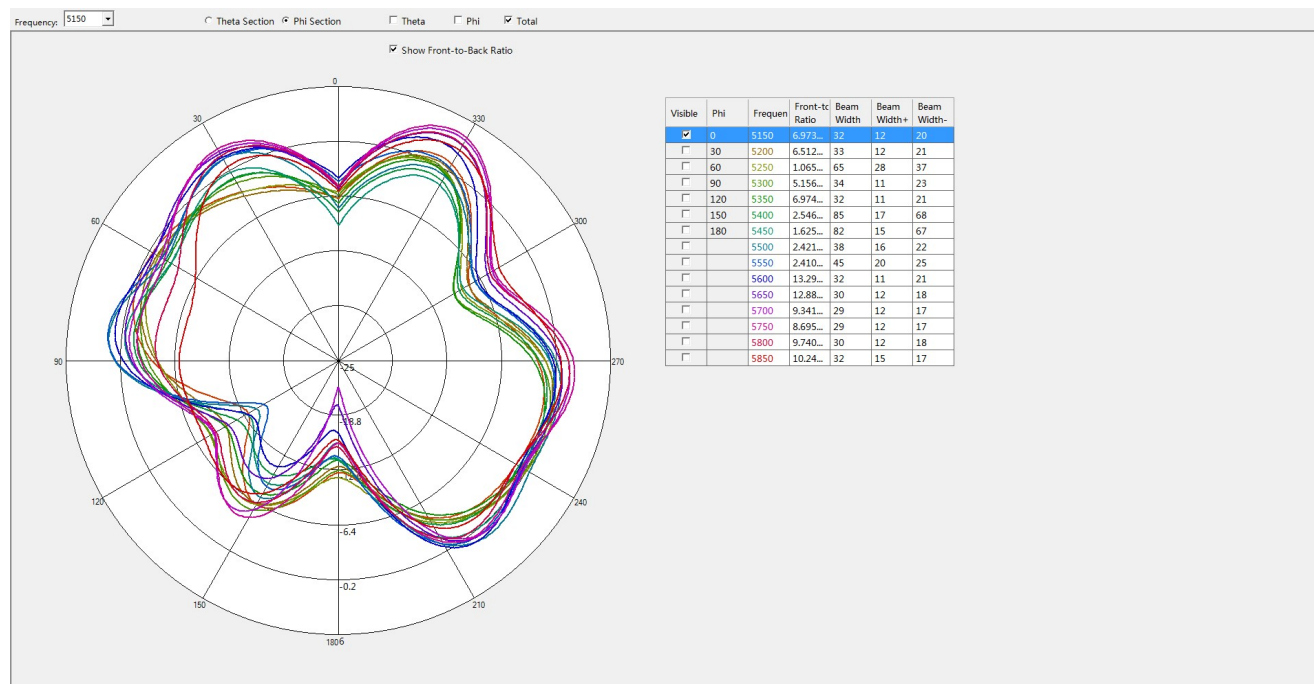


Theta=90°

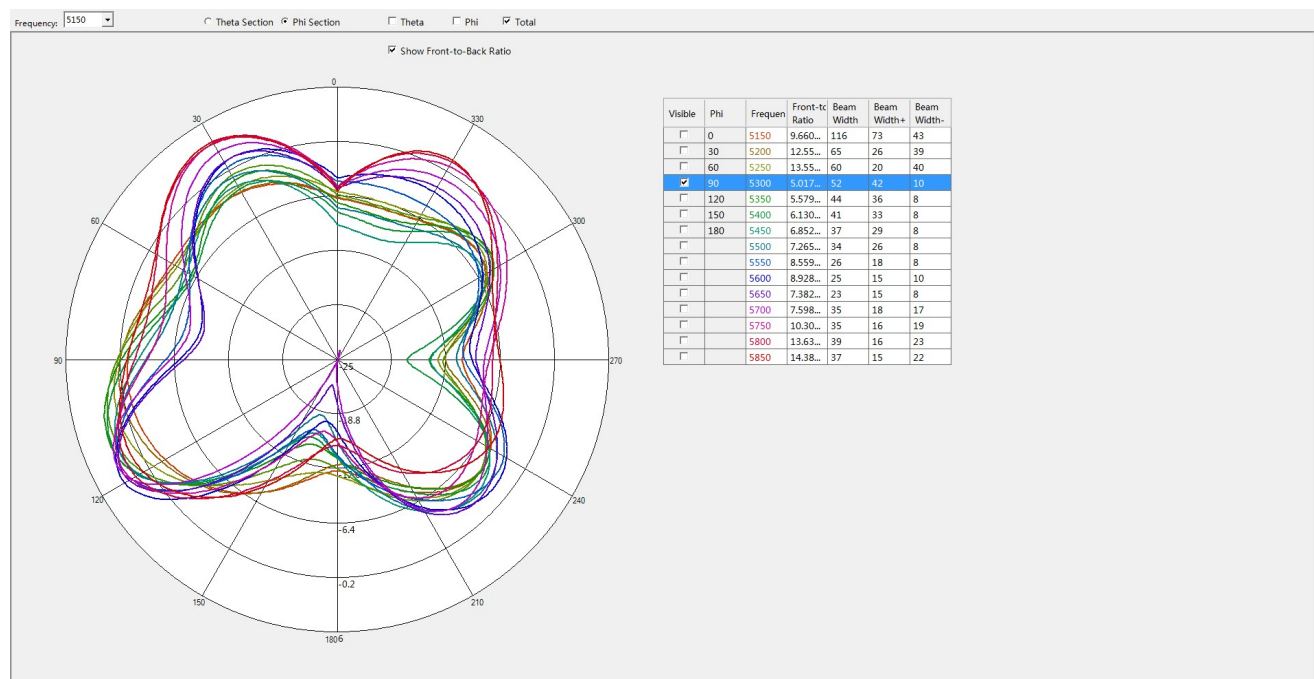




Phi=0°



Phi=90°



OTA Standard Chamber

Technical drawing of a 1.13mm black coaxial axis with First generation RF connectors (Terminal facing).

Front Side

Hand tear position.

The surface is covered random with black ink.

Screen printing white oil.

CC 450L

VL

*270.00±2.50

Back Side

The surface is covered with glue (3M9471LE)

*34.00±0.2

*8.50±0.2

Table:

the third angle projection method		Material no.		Model	
Feature	tolerance	See Standards	0.02	0.03	450L
Line	tolerance	±0.10	0.03	Date	2024-07-25
Profile	tolerance	±0.20	0.02	Design	LEE
		0.04	0.02	Material	
		0.02		Unit	mm
				Scale	1:1
				File	Version
				T: A	

Please do not measure the drawings

Notes:

- Mark * for required dimensions, refer to 2D drawings for unmarked dimensions.
- Base material 25μm copper mooring 18μm line surface other than the solder pad to spread black ink.
- means copper area, means gold-plating area (OSP), means glue area (3M900LS/3M9471LE) and the reverse is covered with a uniform distribution of glue.