



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



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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

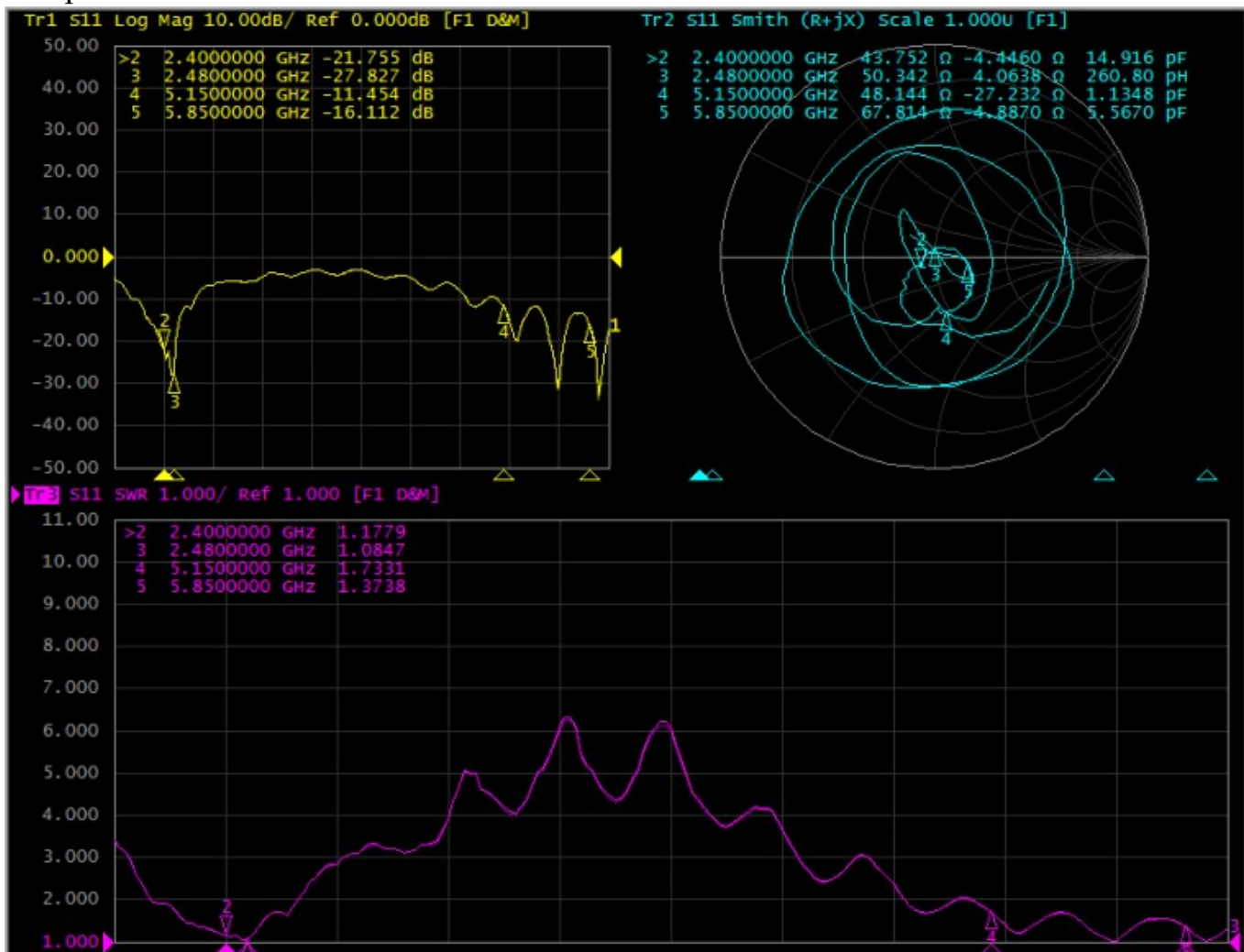


I: The report of passive data



Angilent E5071C

S11 parameters:



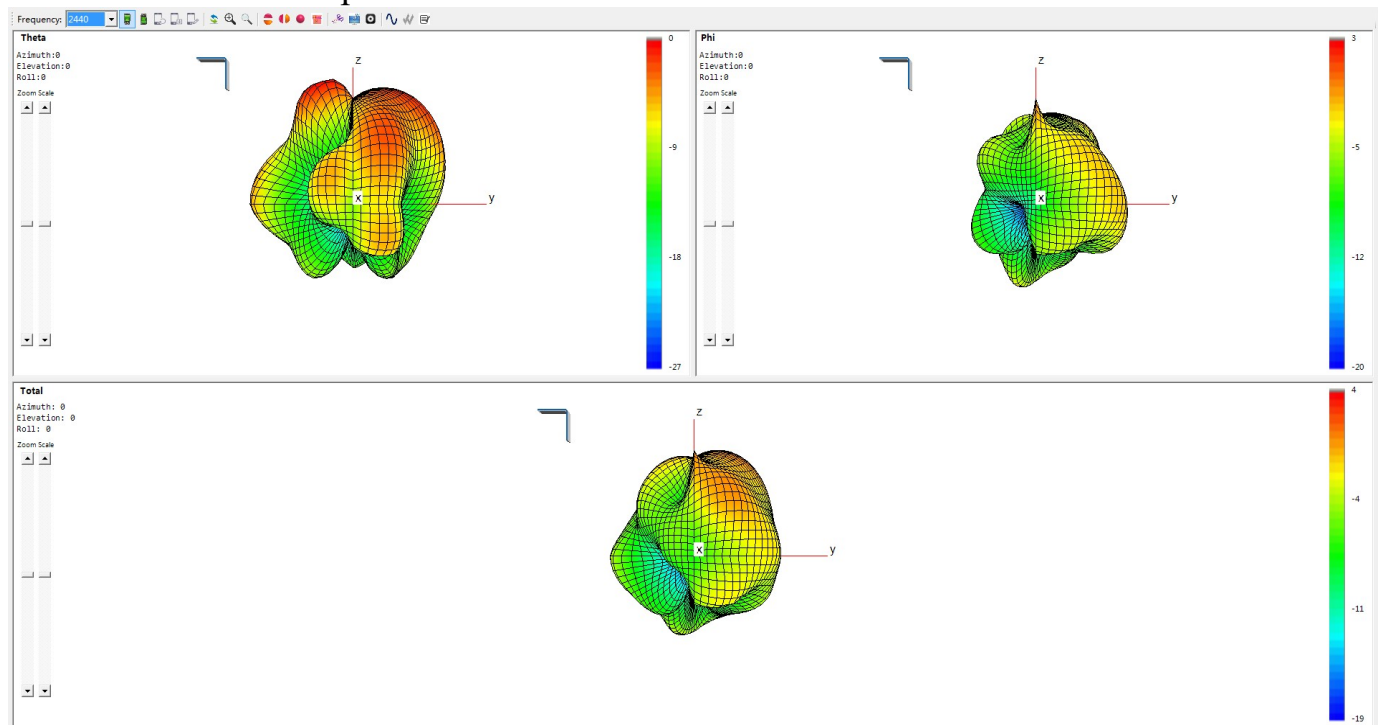


Efficiency: (2.4G)

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

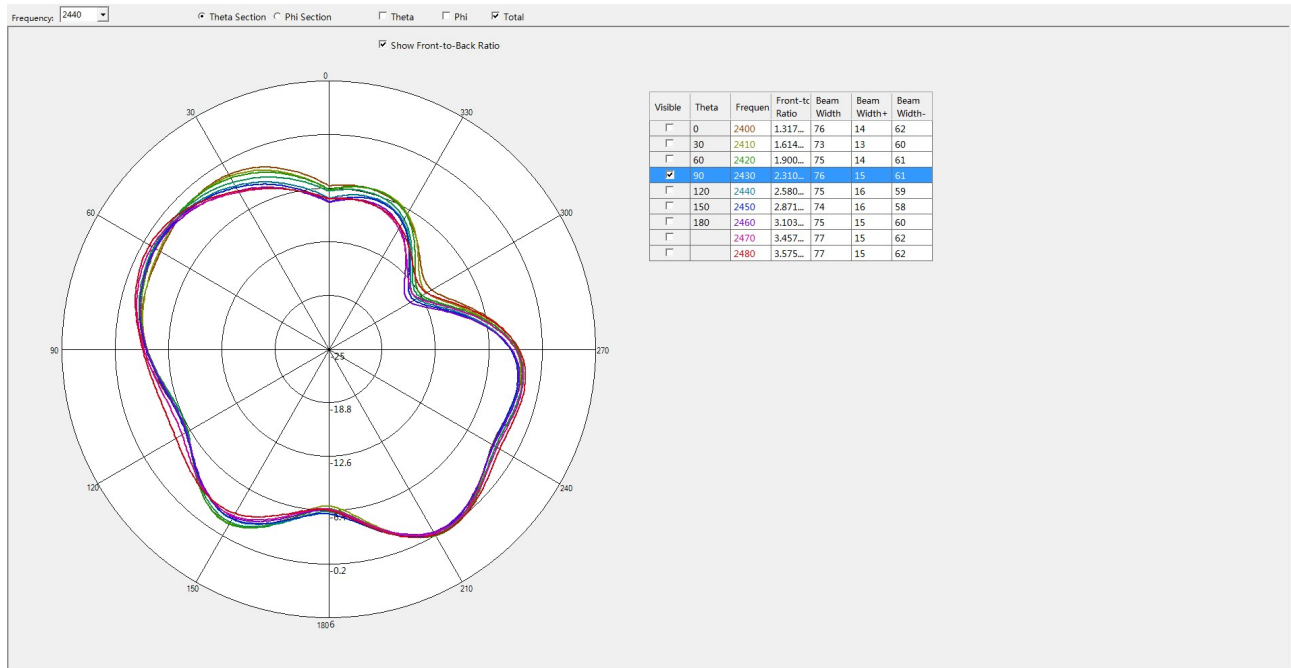
3D Antenna radiation pattern: (2.4G)



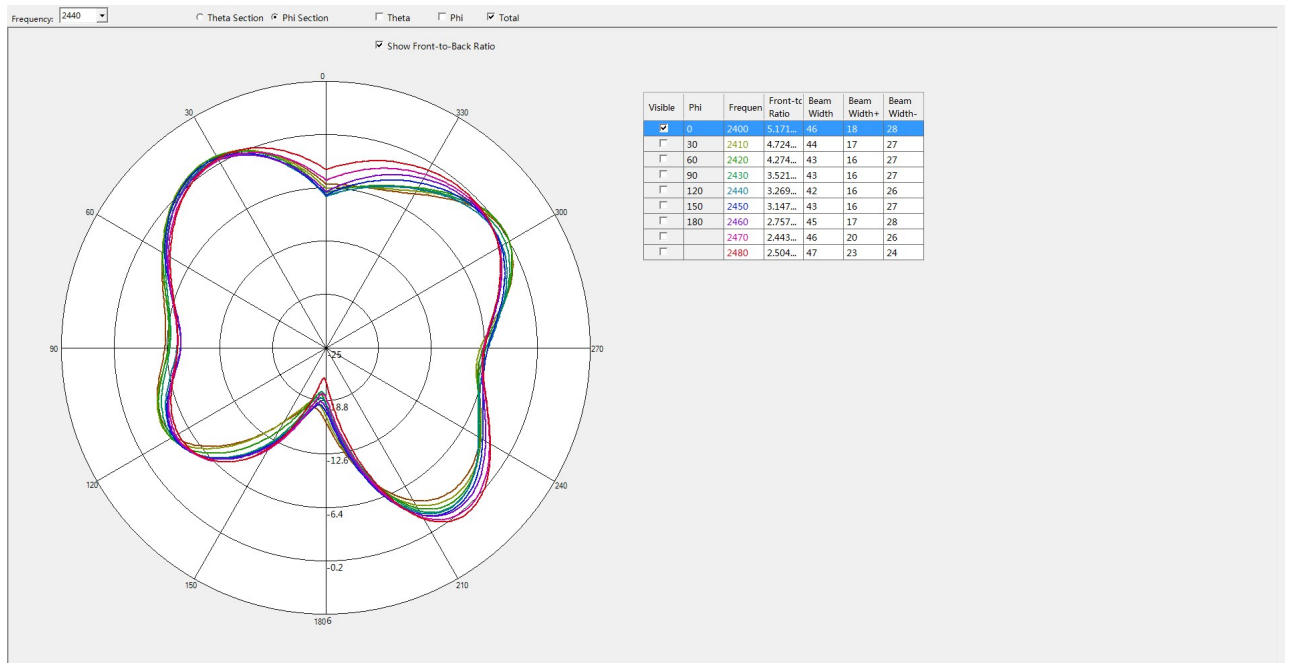


Antenna radiation pattern: (2.4G)

Theta=90°

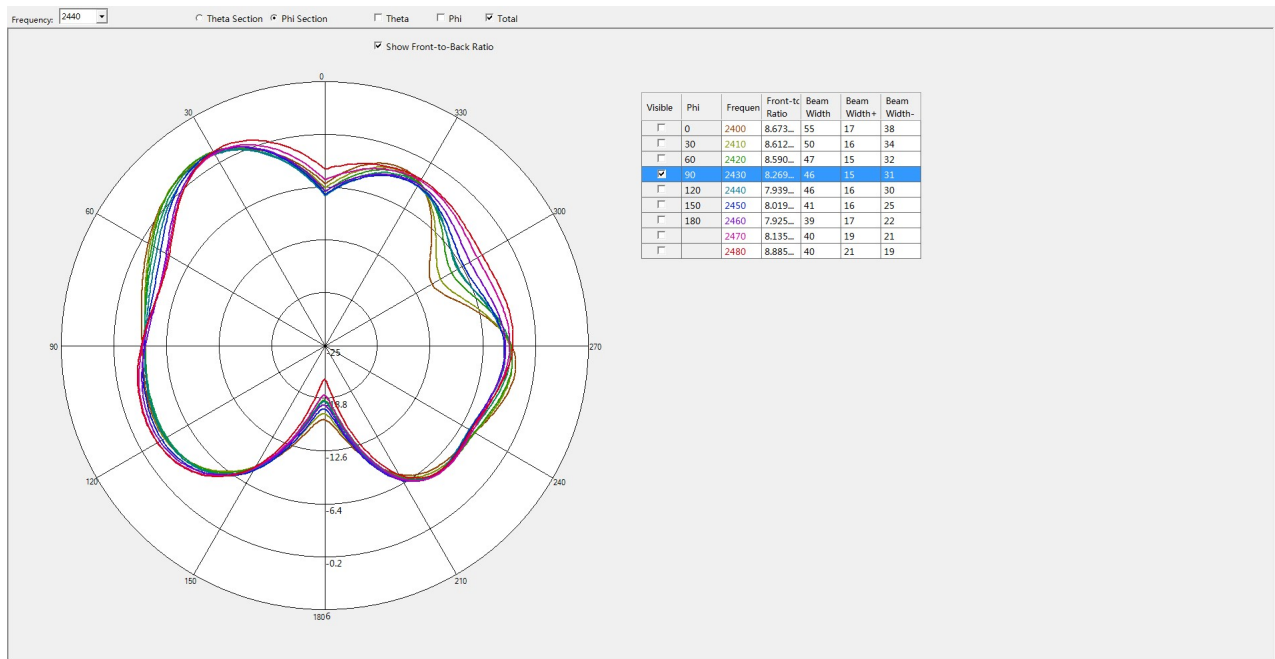


Phi=0°





Phi=90°



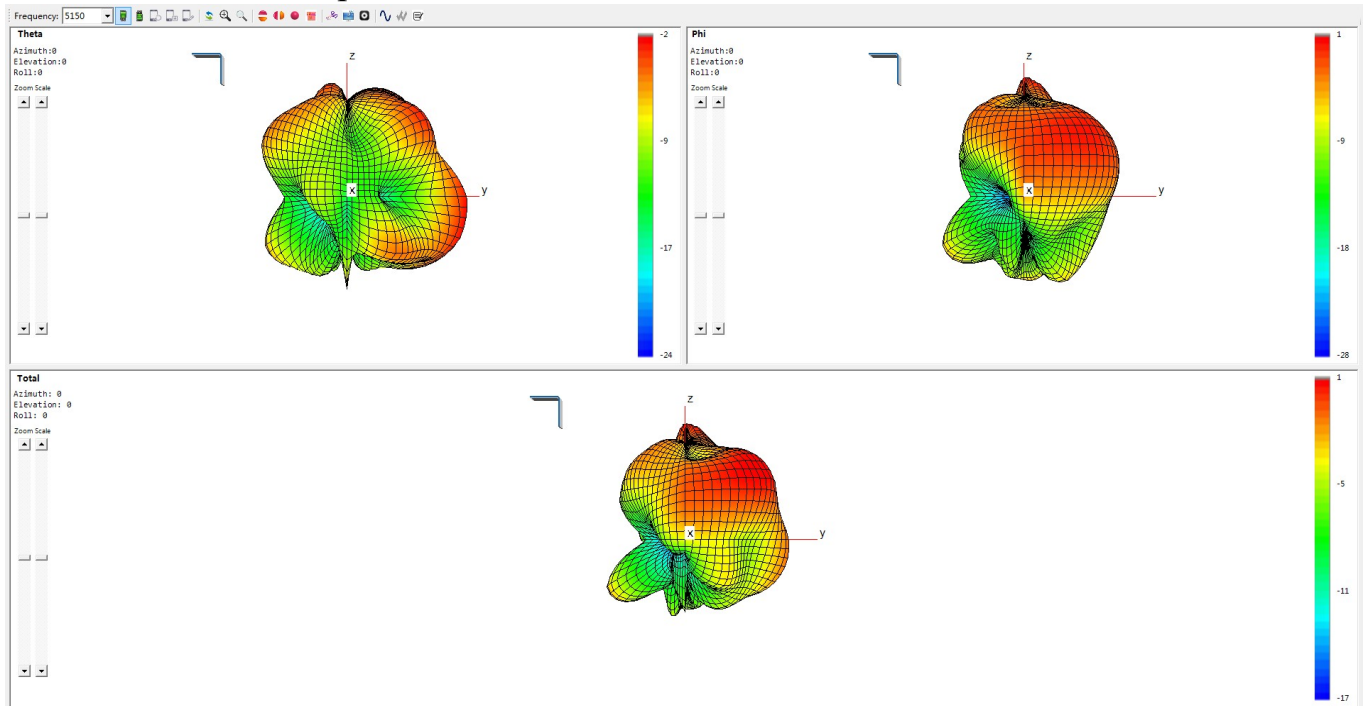
Efficiency: (5G)

5G WIFI (5150MHz-5850MHz)

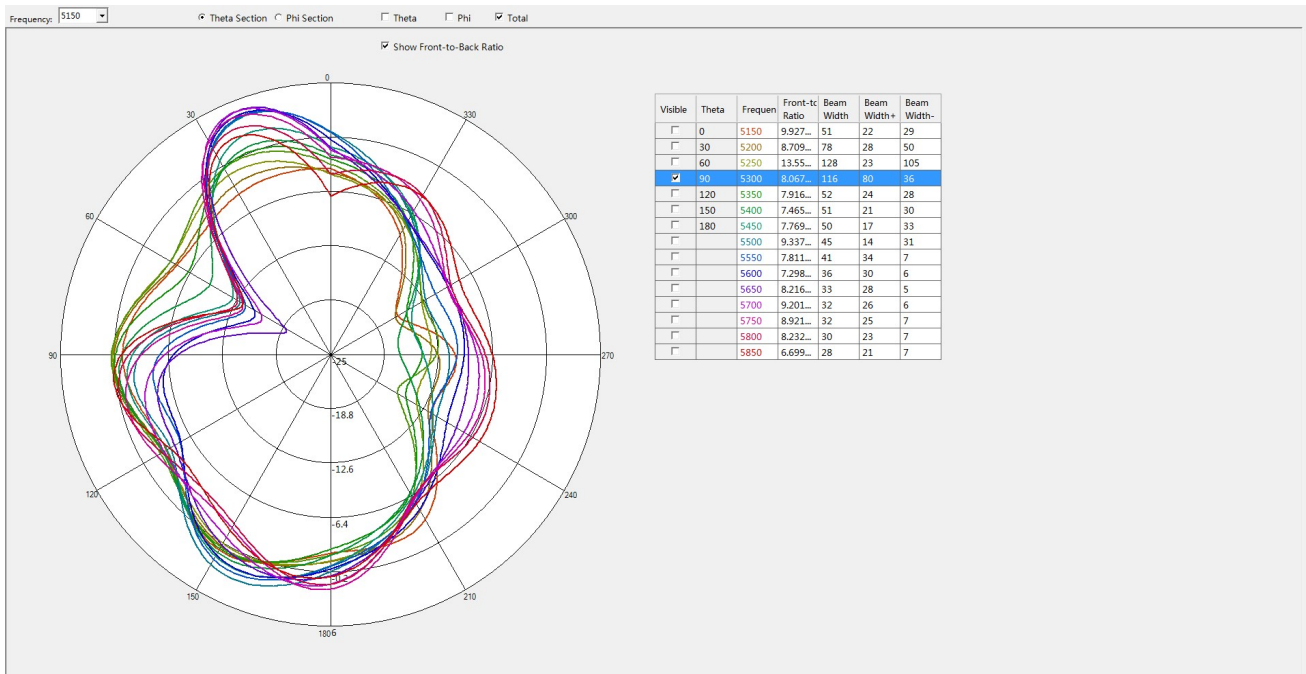
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
5150	0.9	-3.4	45.3
5200	1.1	-3.4	45.7
5250	1.3	-3.2	47.3
5300	1.3	-3.0	50.6
5350	2.0	-3.1	48.8
5400	2.7	-3.2	47.7
5450	2.8	-3.0	50.1
5500	2.7	-2.8	52.5
5550	2.6	-2.9	51.2
5600	2.7	-2.6	54.5
5650	2.9	-2.7	53.9
5700	3.8	-2.4	57.9
5750	4.6	-2.0	62.7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

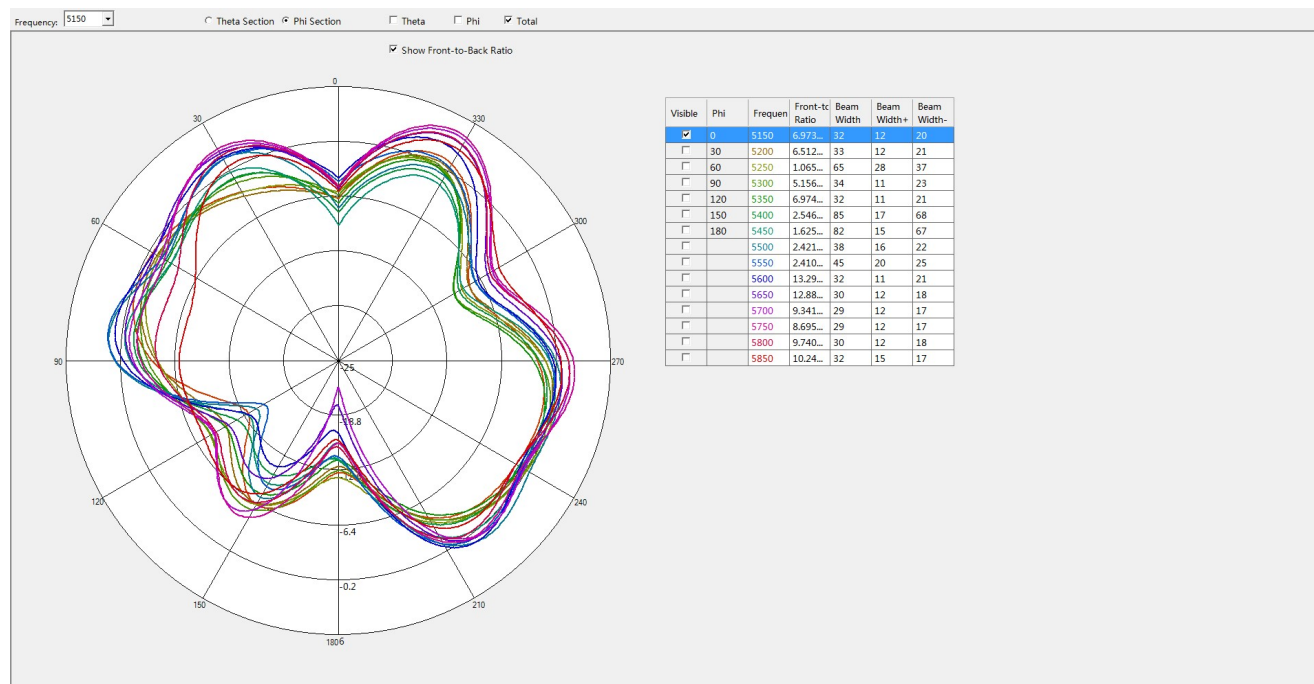


Theta=90°

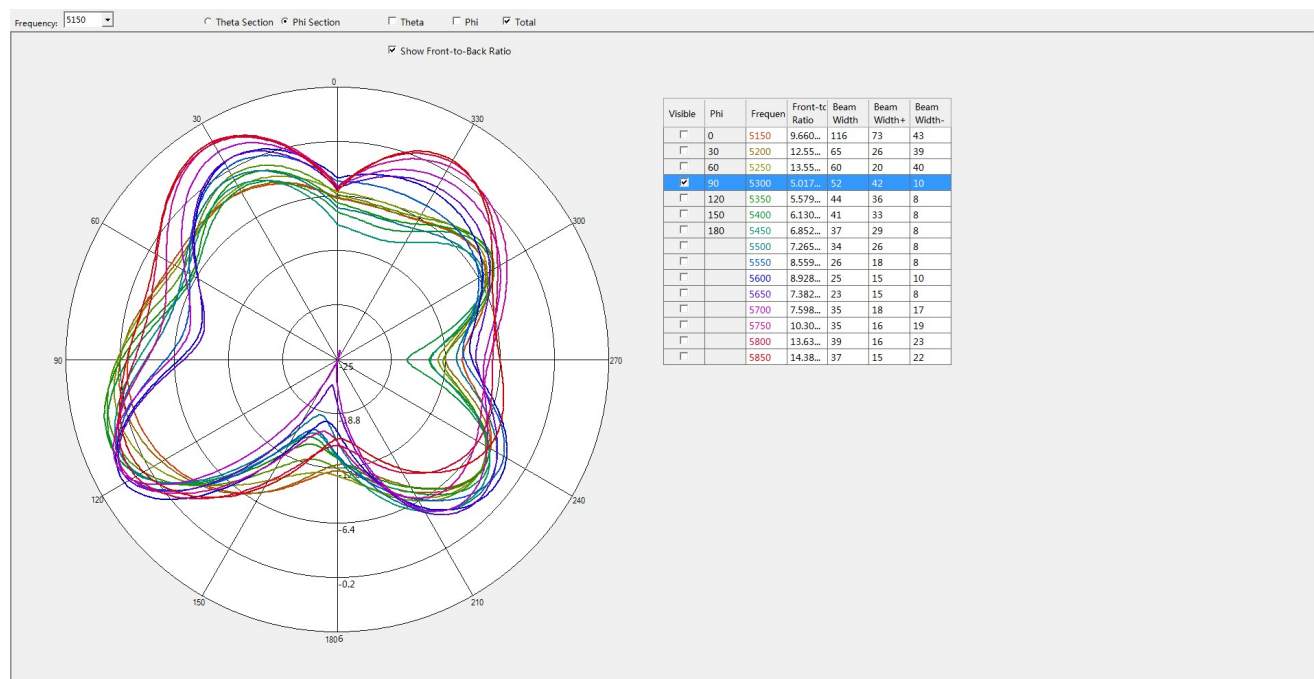




Phi=0°



Phi=90°



OTA Standard Chamber

[illegible]