

Antenna test Report

VSW09

SKYLIGHT ENGINEER DEPT			
APPROVAL BY	DRAWN BY	DATE	Version
Simon	Louis jiang	2024.04.01	V02

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conclusion

SPEC--WiFi



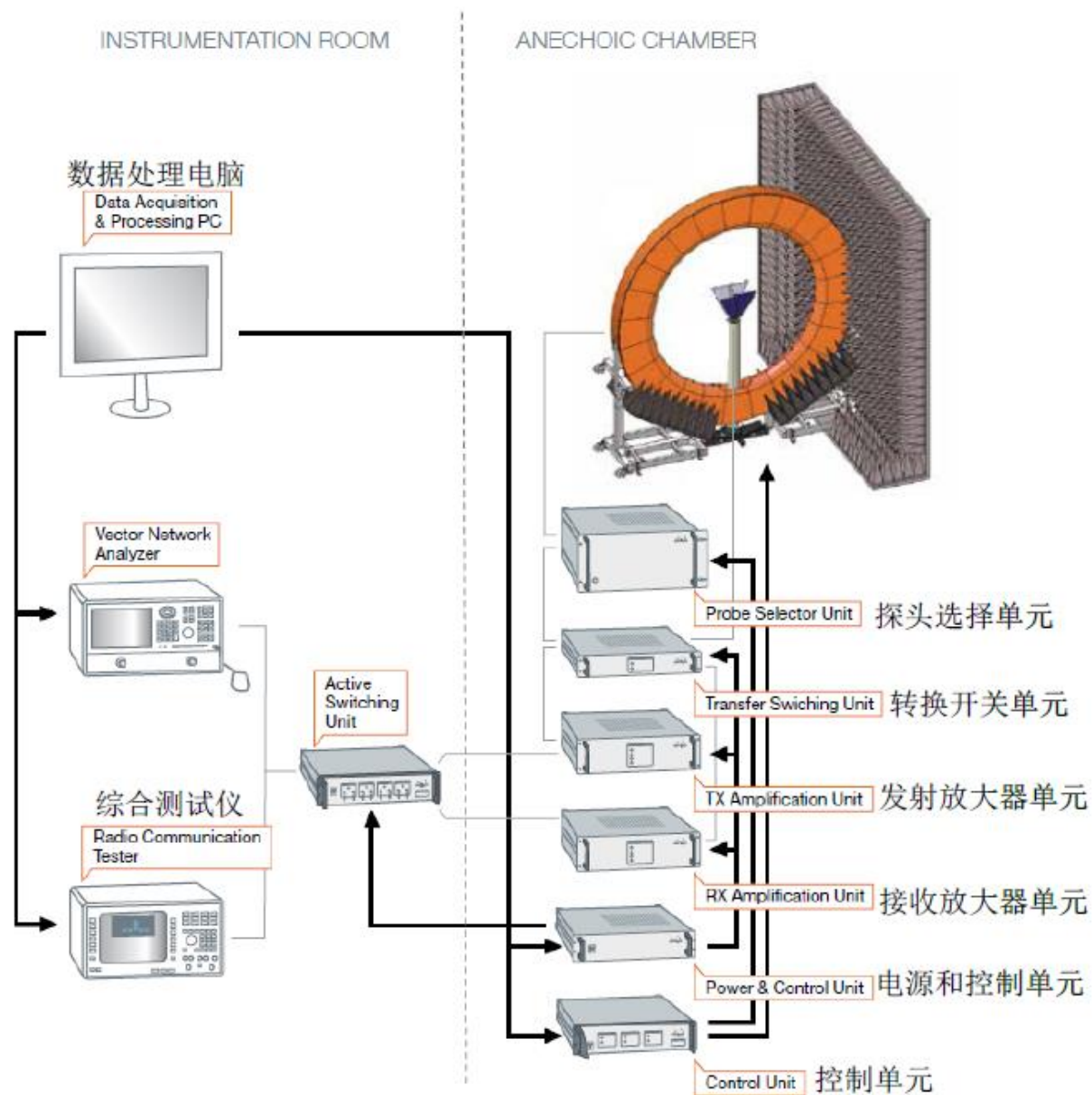
ITEM	ANTENNA SPEC				
Model Name	VSW09--WiFi				
Frequency & Gain	2400MHz	2420MHz	2440MHz	2460MHz	2480MHz
	2.57	2.37	1.95	2.30	2.29
Peak Gain(dBi)	2.57				
Average Gain(dB)	2.29				
Impedance	50 Ω				
Antenna Size	20.87*16.2 (mm)				
Manufacture	Sky Light Electronic (ShenZhen) Limited				
VSWR	< 2.0				
Antenna Type	metal				
Return Loss(dB)	<-10				

SPEC--Sub 1G (433MHz)

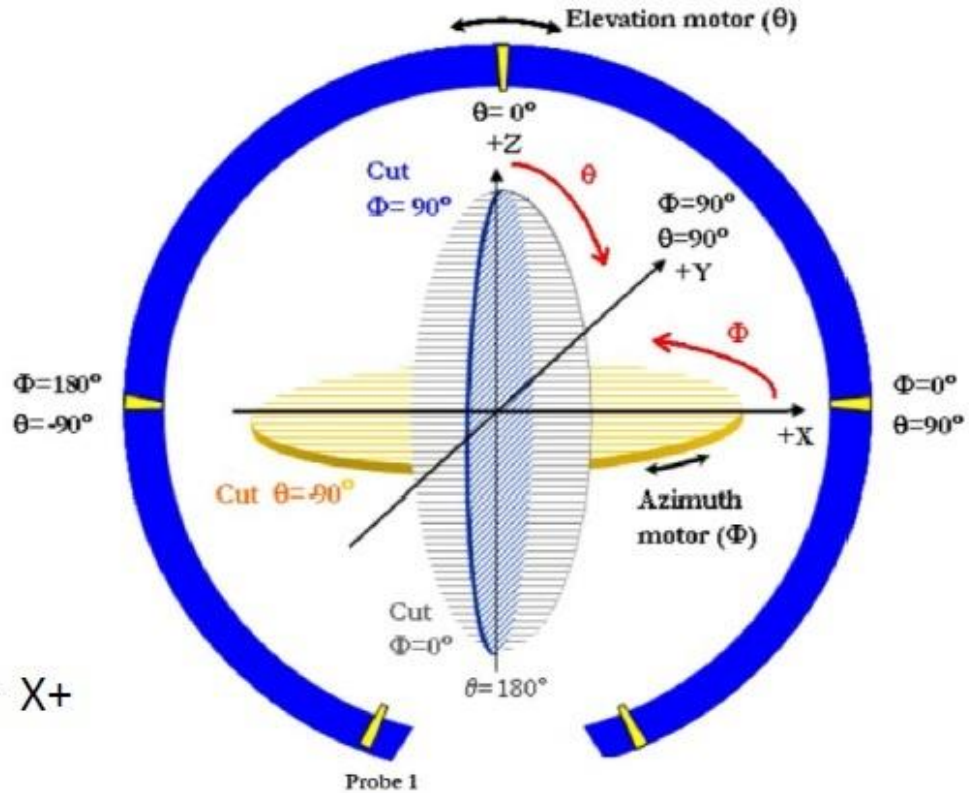


ITEM	ANTENNA SPEC				
Model Name	VSW09-- Sub-1G				
Frequency & Gain	413MHz	423MHz	433MHz	443MHz	453MHz
	-14.53	-11.83	-9.14	-8.75	-10.19
Peak Gain(dBi)	-8.75				
Average Gain(dB)	-10.88				
Impedance	50 Ω				
Antenna Size	57.2*8.3 (mm)				
Manufacture	Sky Light Electronic (ShenZhen) Limited				
VSWR	< 2.0				
Antenna Type	PCBA				
Return Loss(dB)	<-10				

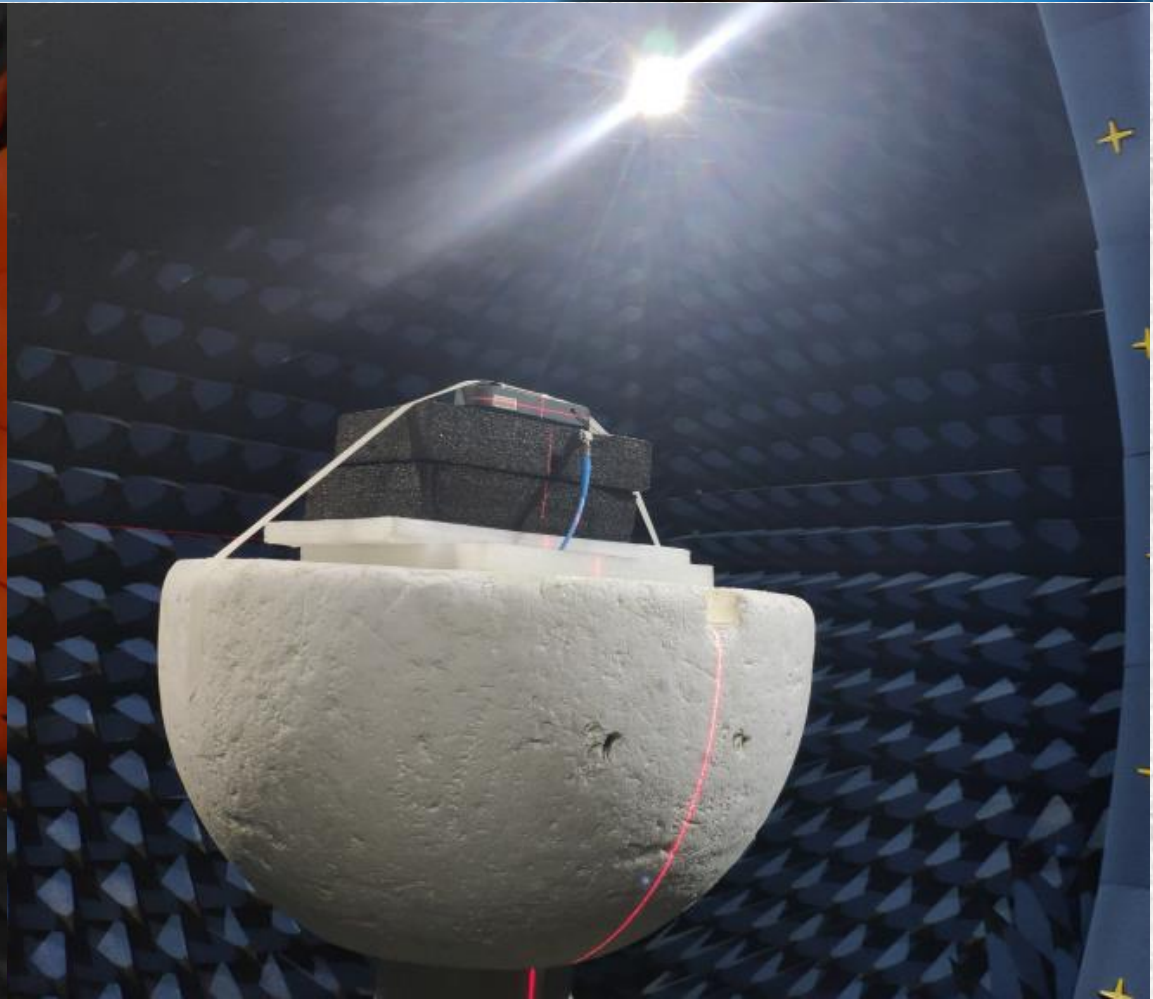
Instrumentation Performance



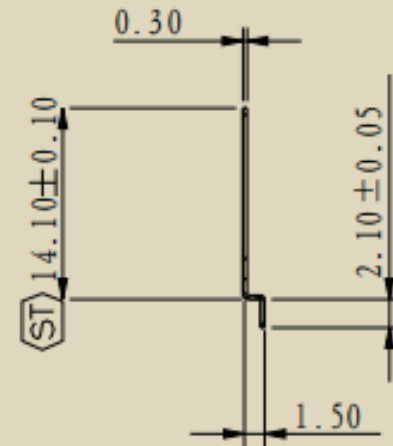
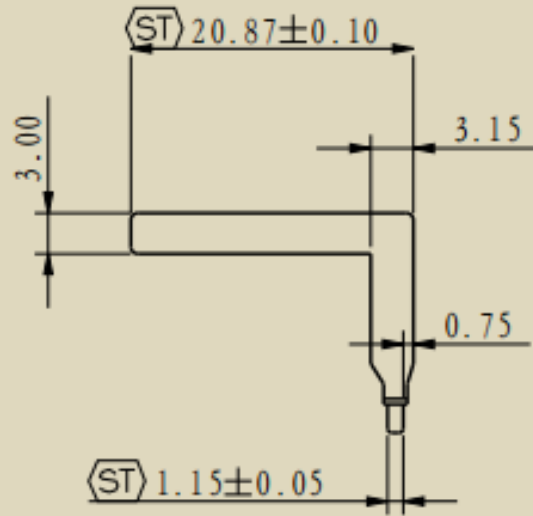
SKY SLIGHT



VSW09 in the lab



Antenna Size--WiFi

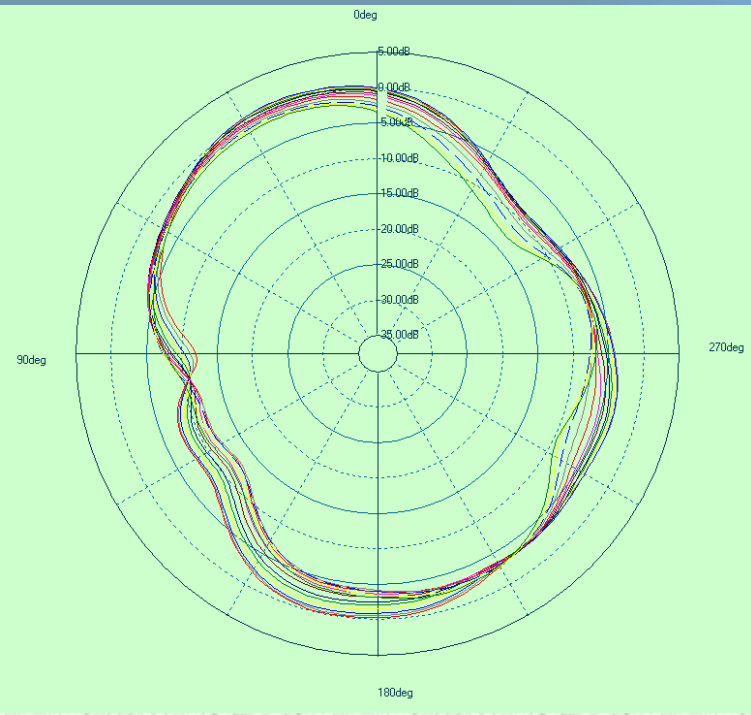


SKY SLIGHT

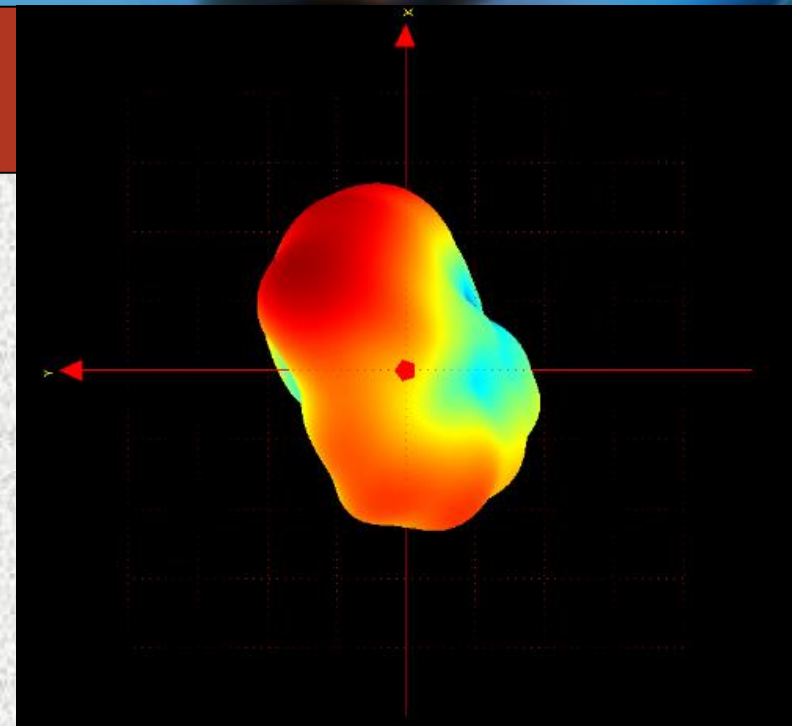


Performance of VSW09-2.4G

2D&3D sectional view

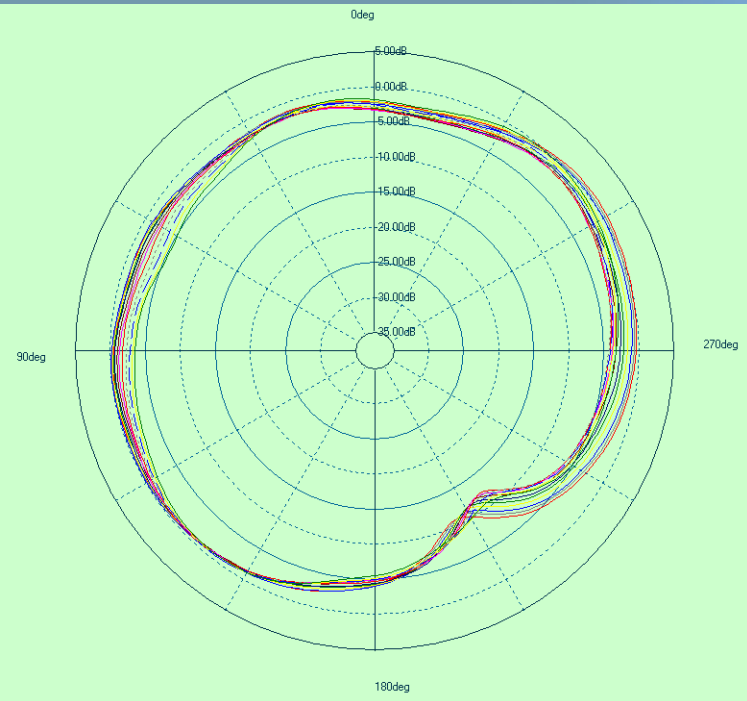


XY Plane
at 2.4GHz

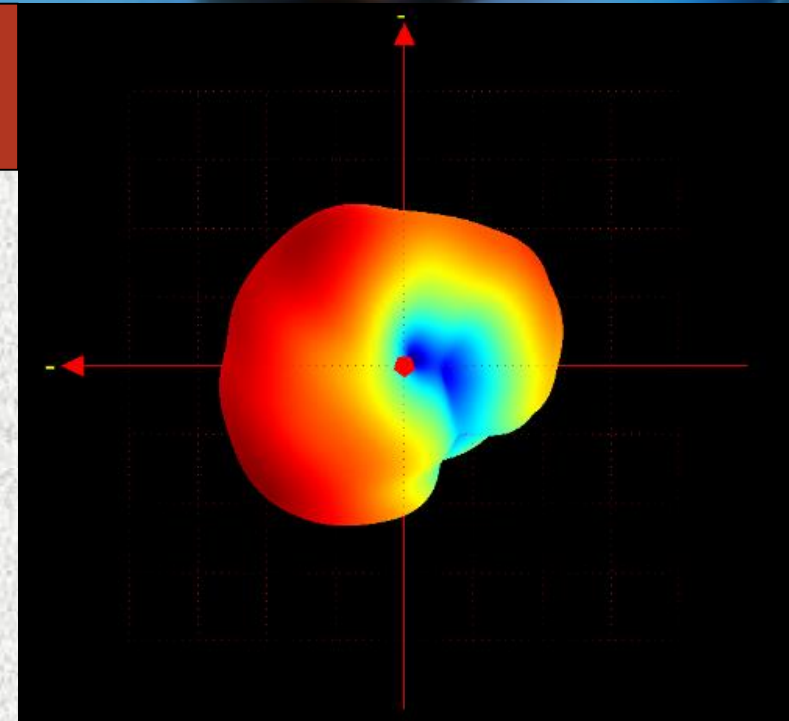


Performance of VSW09-2.4G

2D&3D sectional view

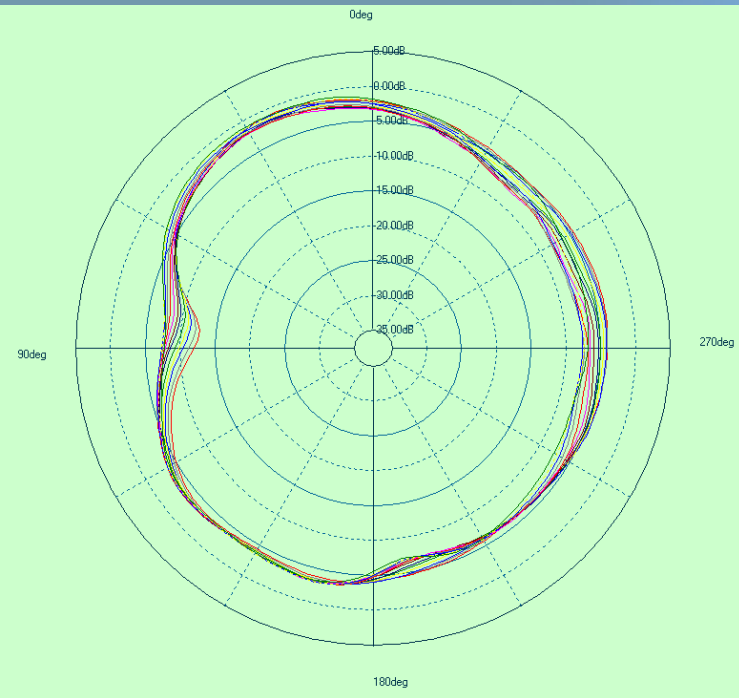


XZ Plane
at 2.4GHz

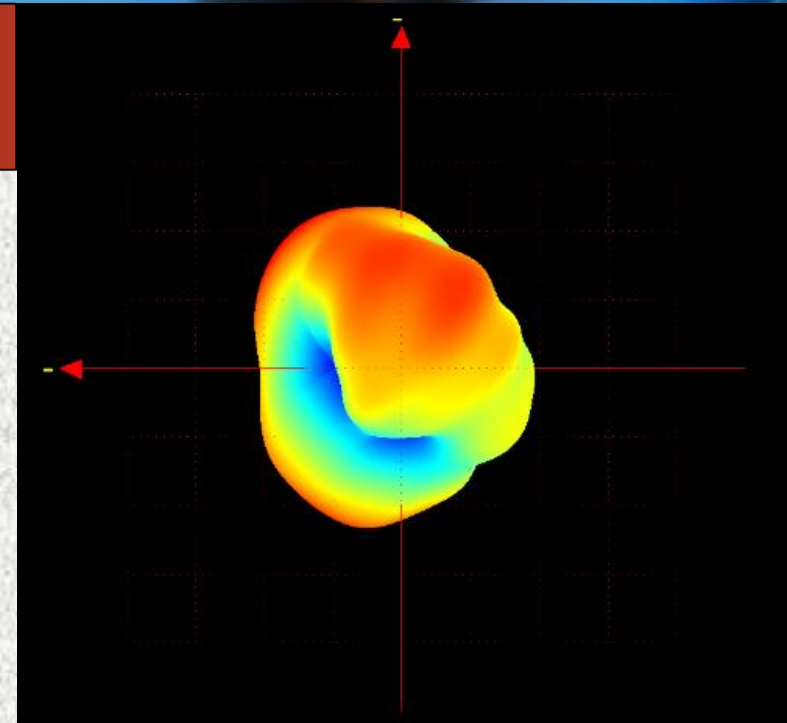


Performance of VSW09-2.4G

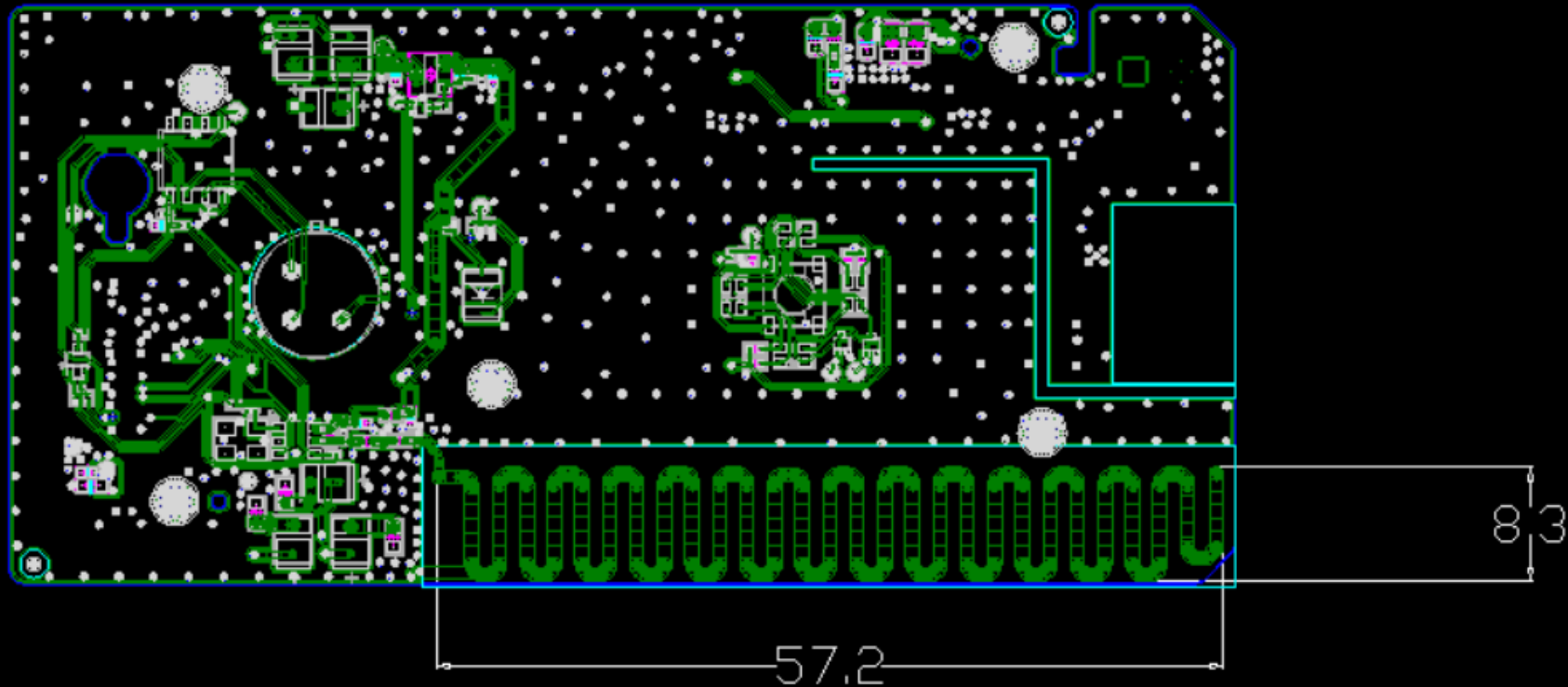
2D&3D sectional view



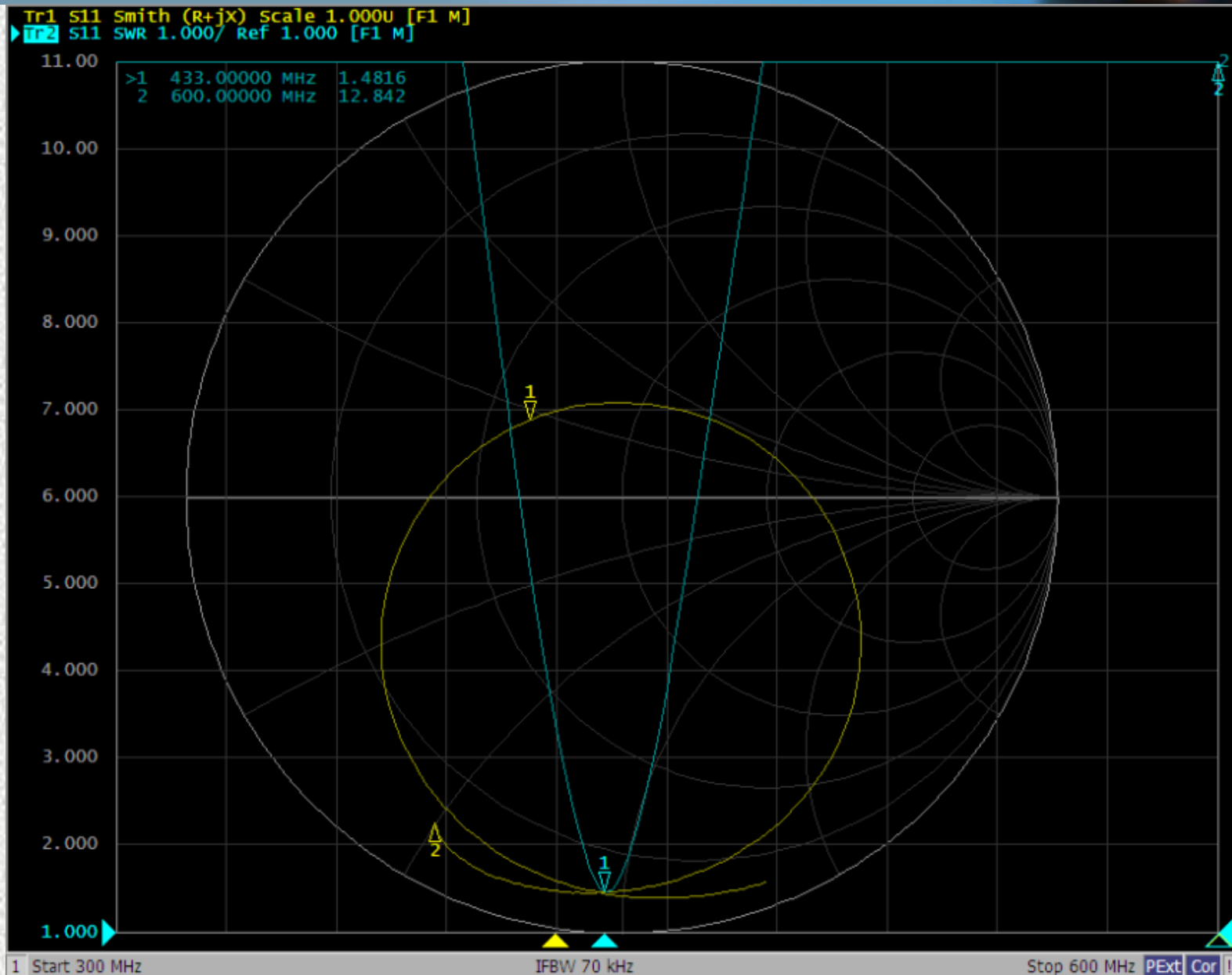
YZ Plane
at 2.4GHz



Antenna Size--Sub-1G



Antenna Size--Sub-1G



Antenna Size--Sub-1G



Frequency	Gain (dBi)	Efficiency()
403MHz	-15.77	1%
413MHz	-14.53	1%
423MHz	-11.83	2%
433MHz	-9.14	5%
443MHz	-8.75	5%
453MHz	-10.19	3%
463MHz	-11.86	2%
473MHz	-13.57	1%
483MHz	-14.57	1%
493MHz	-14.83	1%

Thank You !

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