

規 格 承 認 書
SPECIFICATION FOR APPROVAL

客戶名稱：
CUSTOMER:

客戶料號：
CUSTOMER NO:

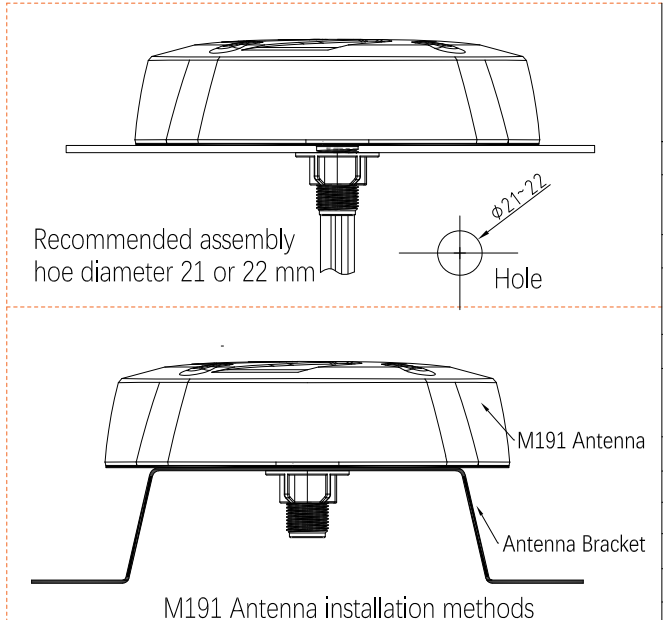
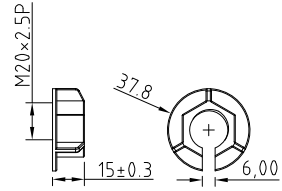
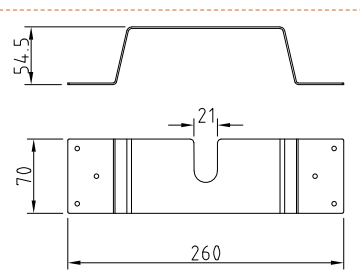
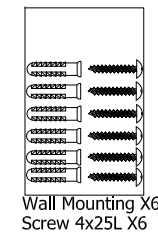
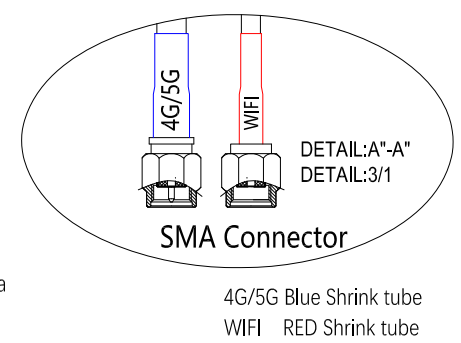
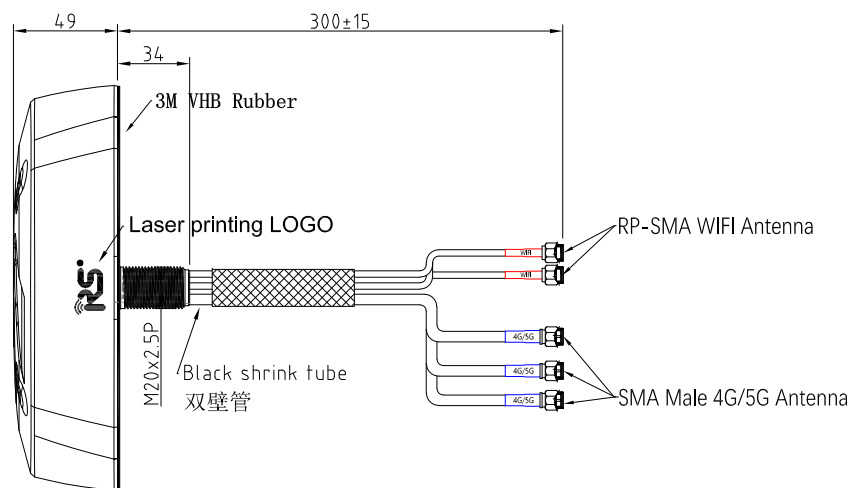
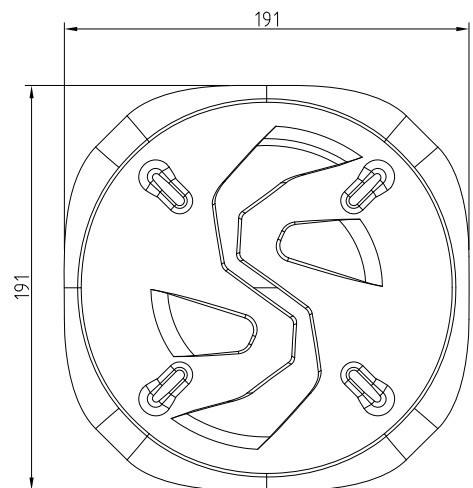
品 名
PATR NAME: M191 4G/5G +WIFI Combination Antenna

RS 料號
RS NO: M191.M0.5.335

SUPPLIER SIGNATURE (供方確認)		
APPROVAL	CHECK	DESIGN
king	Frank	HZH

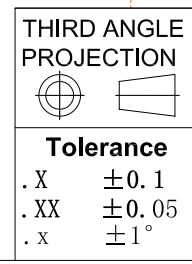
CUSTOMER APPROVED BY (客戶確認)		
APPROVAL	CHIEF	SUPERVISOR

NO	Revision notes	Date	Designed by	Checked by
△	XXX	2022.12.20	HU	king



Electrical Properties	
Frequency Range	3X600~6000MHz
Impedance	2X2.4~7.125GHz
V.S.W.R.	50 Ω
	5G≤3.5
	WIFI≤2.0
Radiation	
Gain	Omni
	4G/5G :6/7/10dBi
	WiFi:6/7dBi
Polarization	Vertical
Mechanical Properties	
Whip	PC+ABS
Standard Connector	SMA
Weight	g(est)
Operating Temp	-40~+85

Aluminum Bracket					BOM				
NO	Name	Material	Finish	QTY					
1	Housing	PC	BLACK	1					
2	RS031 cable(5G)	PVC	BLACK	3					
3	RS031 cable (WIFI)	PVC	BLACK	2					
4	5G/4G Antenna		Silver	3					
5	WIFI Antenna		Silver	2					
6	SMA Male(5G)	BRASS	GOLD	3					
7	RP-SMA Male(WIFI)	BRASS	GOLD	2					
8	Rubber-1	Silicone Rubber	BLACK	1					
9	Rubber-2	Silicone Rubber	BLACK	1					
10	NUT	PA66	BLACK	1					
11	Shrink tube	PET		5					



DRAWN BY	Li	MATERIAL:	
CHECKED BY		FINISH:	Black
APPROVED BY	King	UNIT:	mm
DATE:	23.3.29	SCALE:1/1	REV1.0

PART NO:	M191.M0.5.335
TITLE:	5G/4G and WIFI 5 in 1 Antenna
Dongguan RunShun /www.rsantenna.com	

产品照片
Product Photos



"M" aluminum bracket installation



"L" aluminum bracket installation

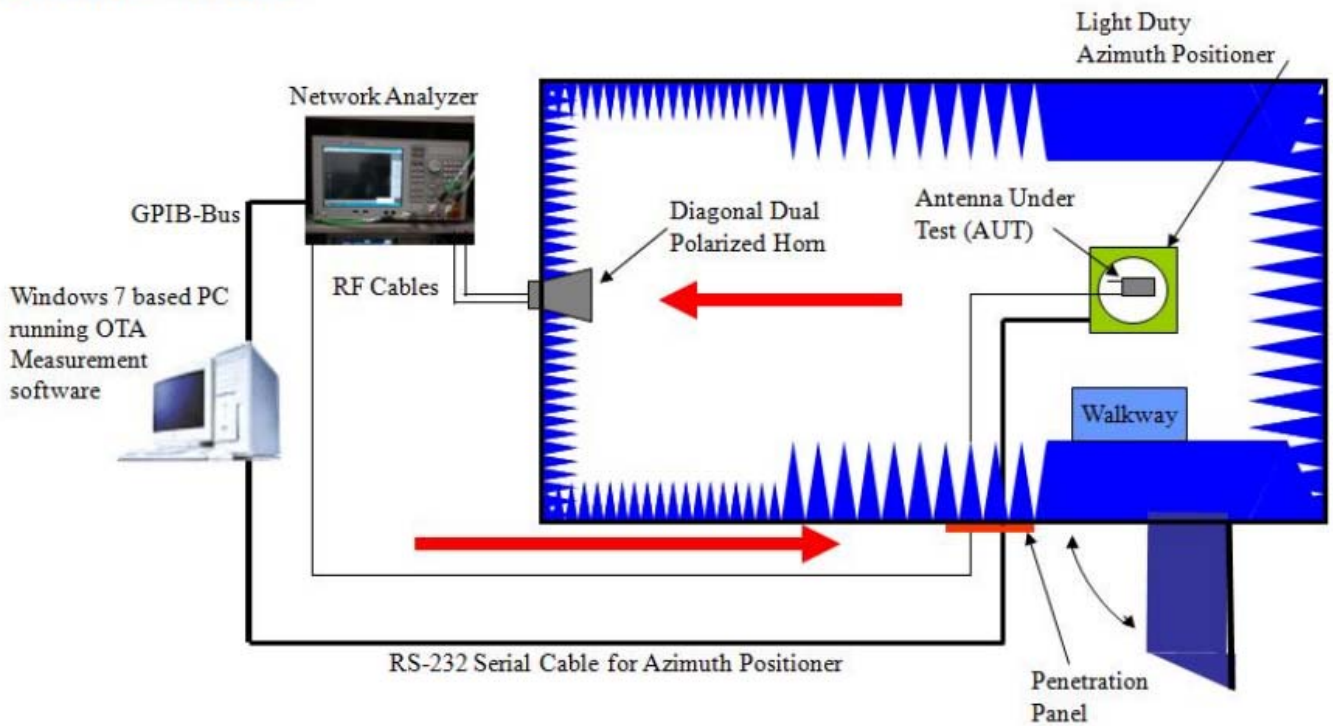


M20 screw installation

产 品 规 格 概 述
Overview of product specification

Electrical properties	
4G/5G Frequency	600~6000MHZ
WiFi Frequency	2.4~2.5GHz/4.9~7.125GHz
Impedance	50 ohm Nominal
Return Loss	5G:-8 dBi WIFI:-10dBi
VSWR Port 1&2	5G 3.0:1 WiFi 2.0:1
4G/5G Gain WiFi Gain	6/7/10dBi 6/7 dBi
Connector	SMA Male/RP SMAL Male
Cable length	RS031 BLACK 3 Meter
Efficiency (%) 4G/5G	600~2700MHz: 46%~97% 3000~4000MHz:62%~86% 4000~6000MHz:55%~96%
Efficiency (%) WiFi	2.4~2.5GHz :70%~81% 4.9~5.8GHz:55%~63% 6.0~7.3GHz:75%~81%
Mechanical Properties	
Radome	UV Resistant PC
Operating Temp	-40°C to +85°C
Radome Color	Black

Passive mode

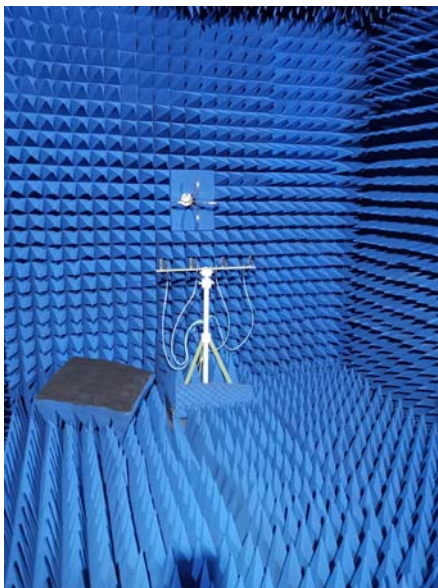


TEST INSTRUMENT :

1. AGILENT E5071C NETWORK ANALYZER
2. 3D OTA Chamber(WanShih)

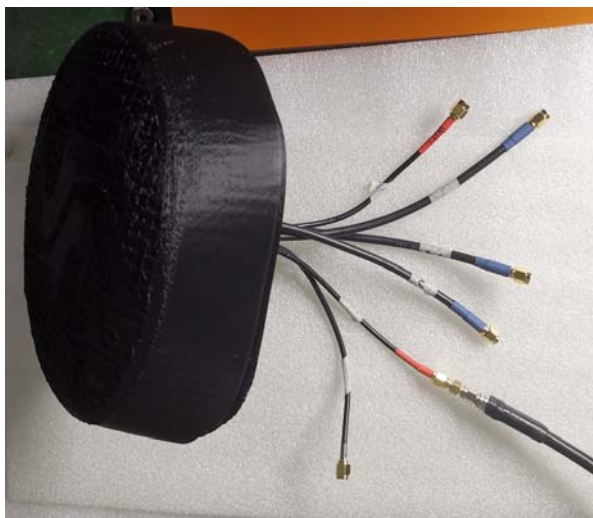
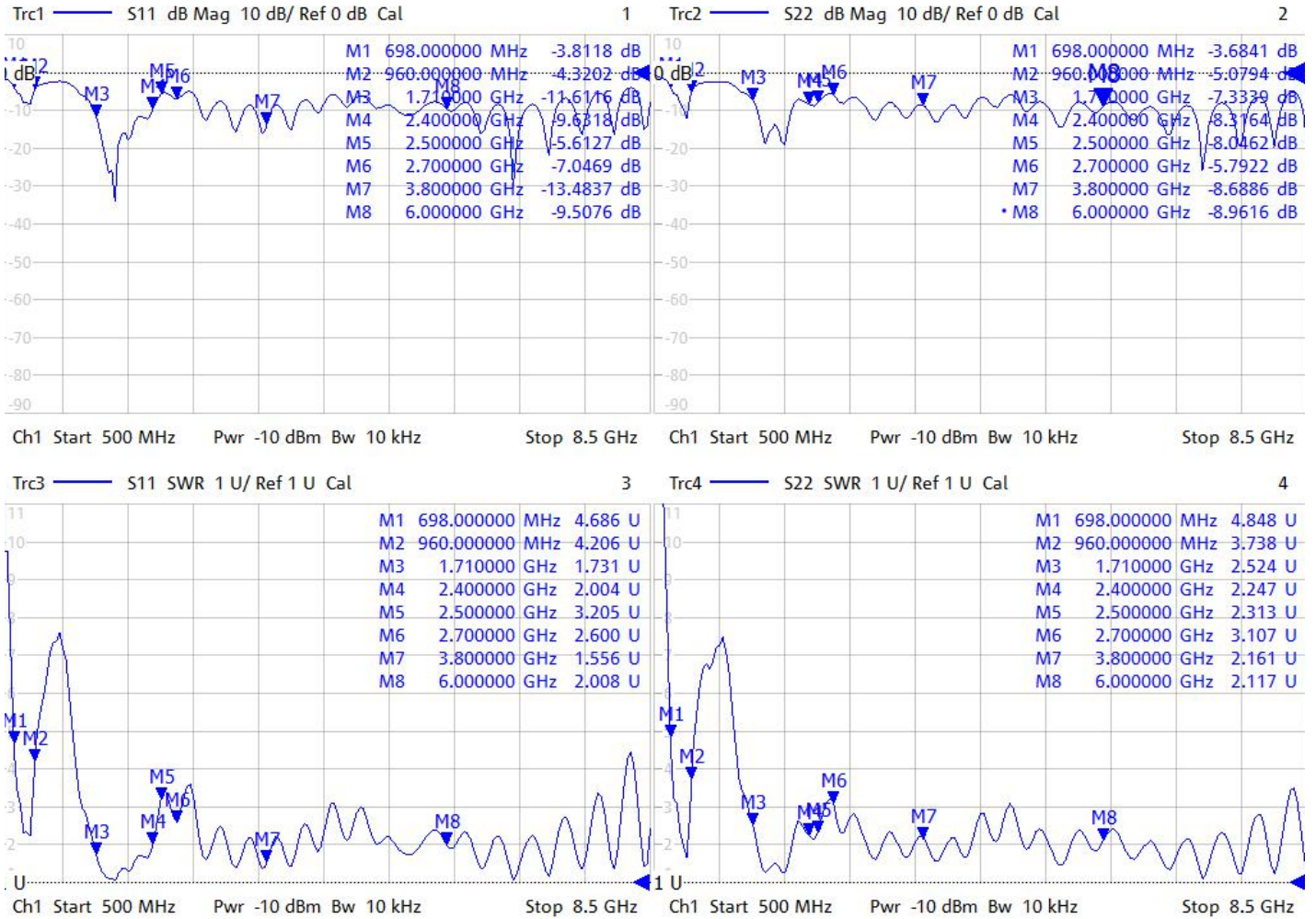
Anechoic Chamber External Dimensions

(L x W x H): 8m x 4m x 4m



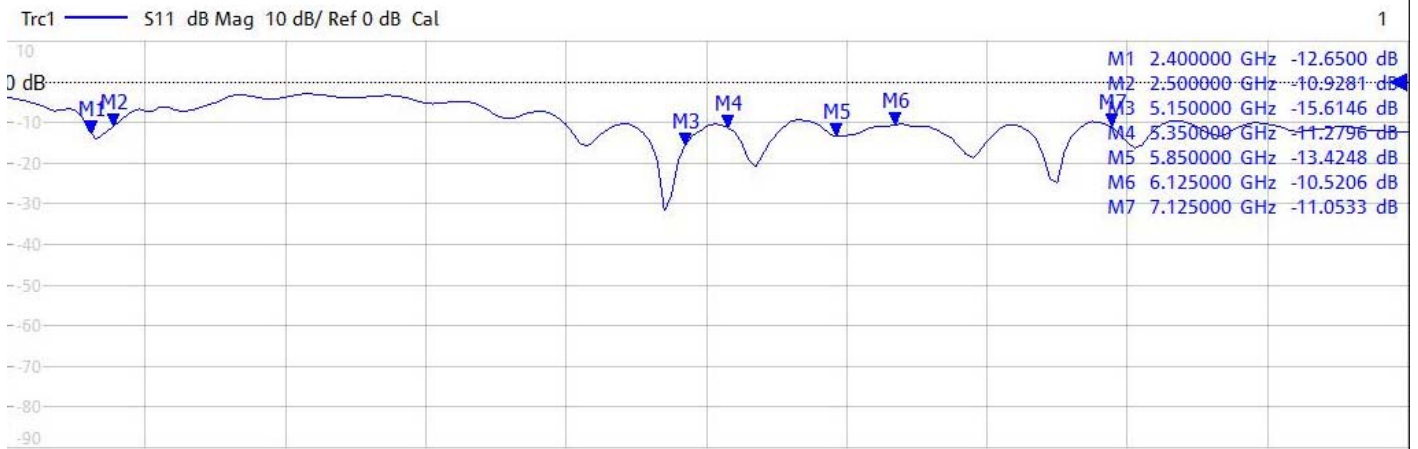
4G/5G VSWR Cable length 20CM

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1328.5170K92-101595-Kd

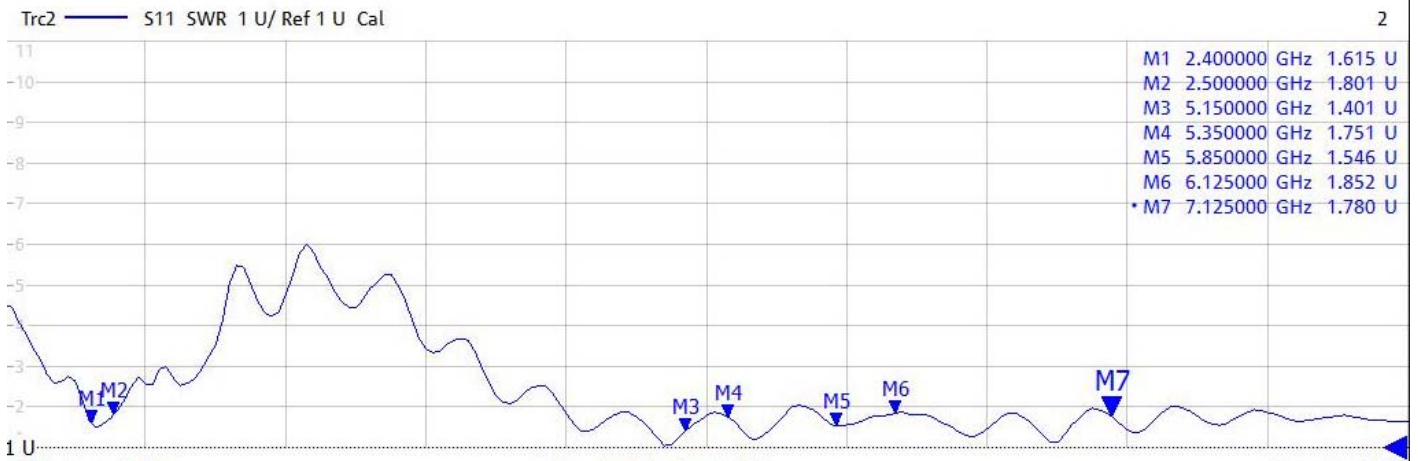


WiFi VSWR Cable length 20CM

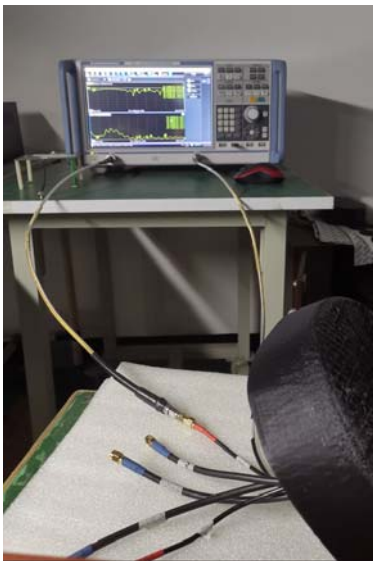
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Ch1 Start 2 GHz Pwr -10 dBm Bw 10 kHz Stop 8.5 GHz

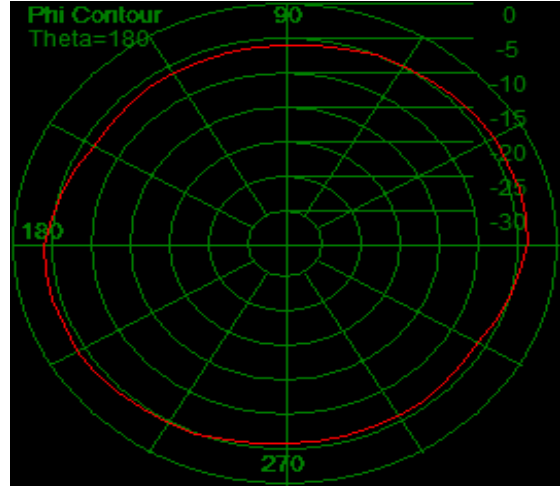
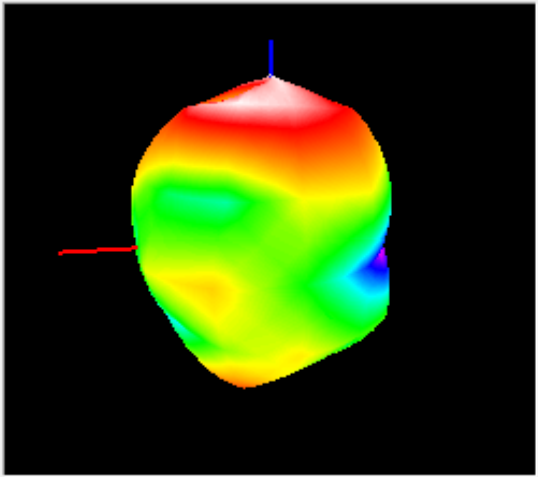


Ch1 Start 2 GHz Pwr -10 dBm Bw 10 kHz Stop 8.5 GHz

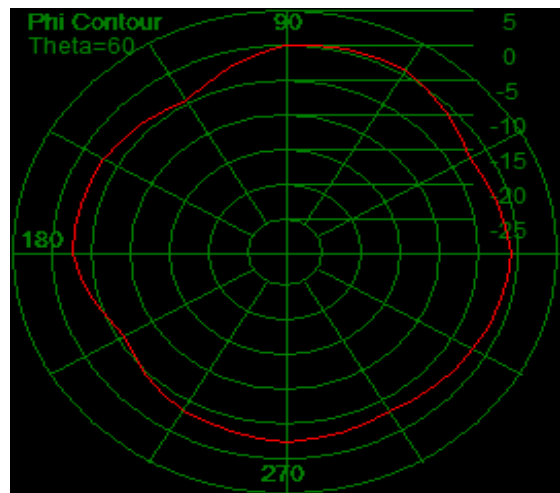
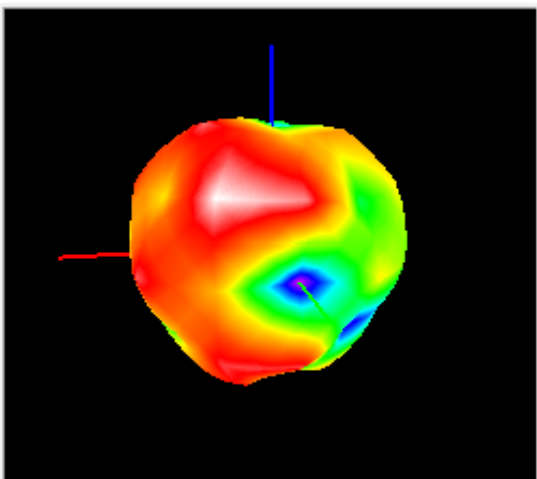


4G/5G Radiation Patterns

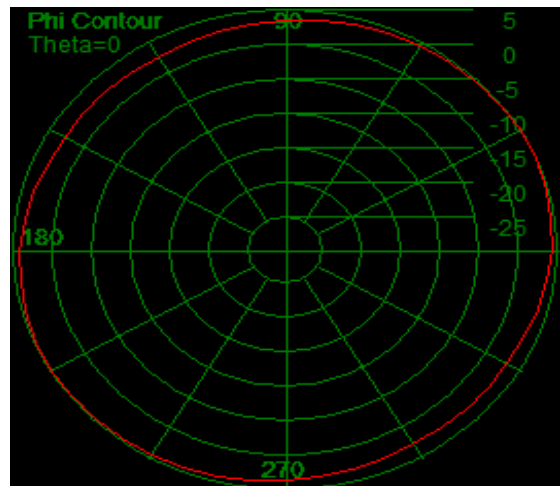
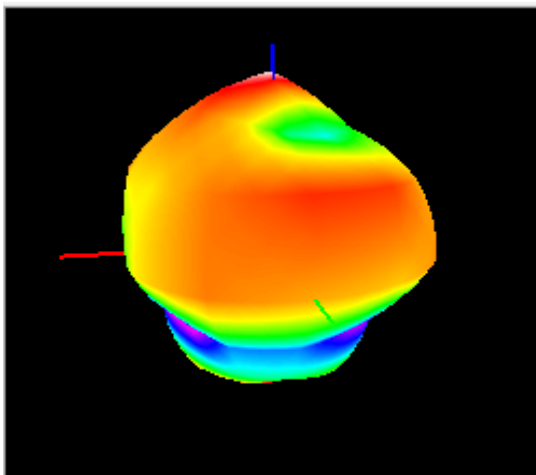
600MHz



698MHz

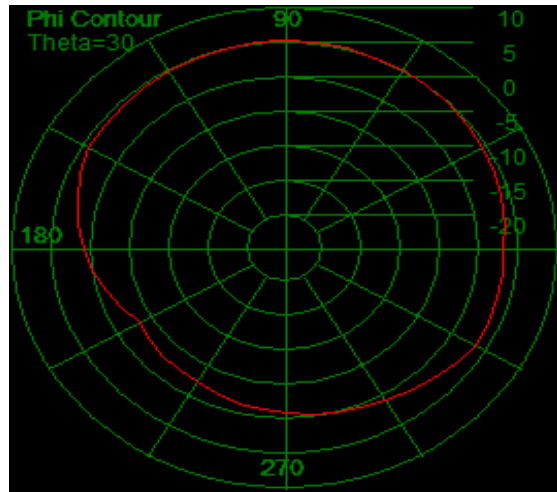
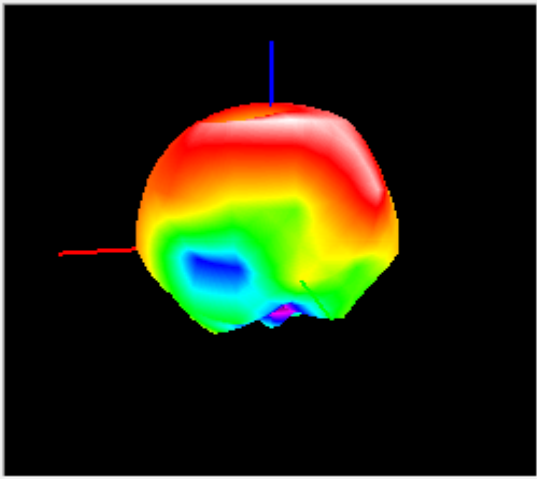


960MHz

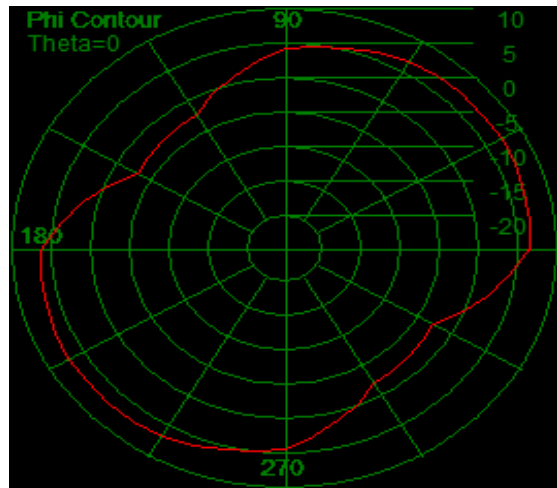
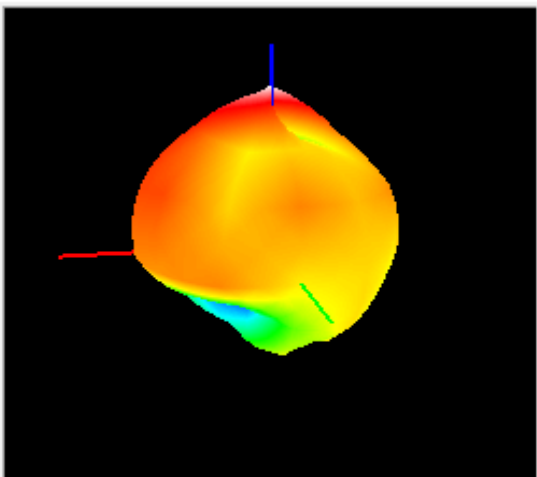


4G/5G Radiation Patterns

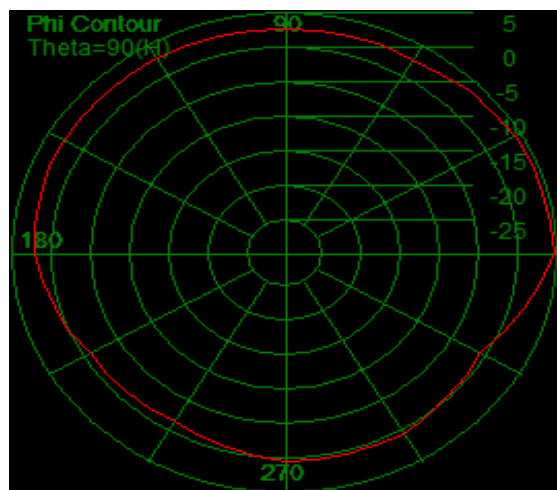
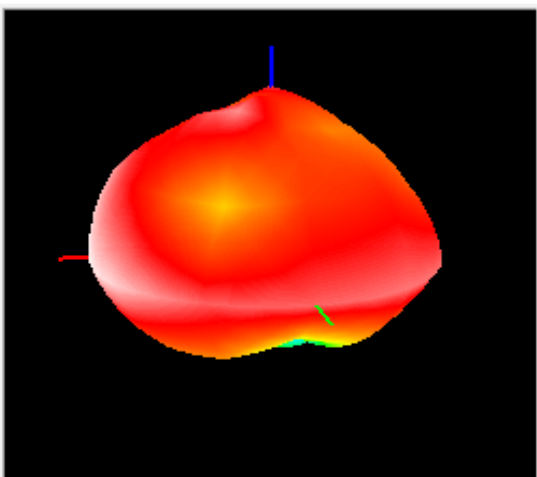
1710MHz



2170MHz

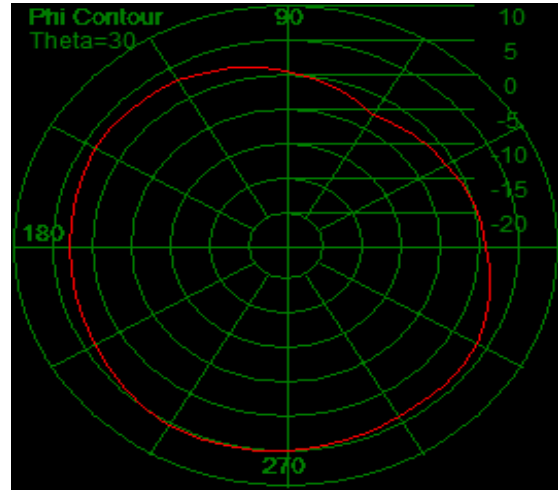
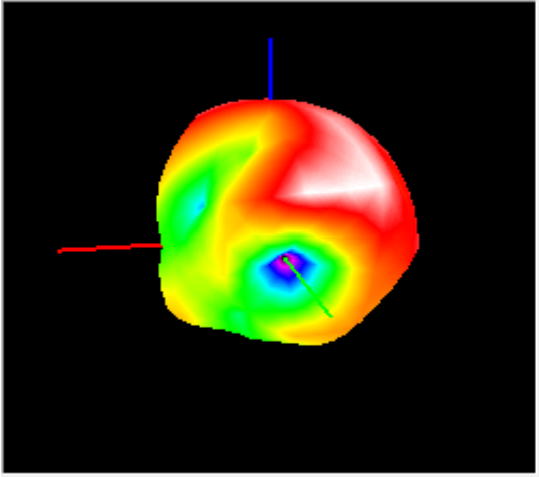


2700MHz

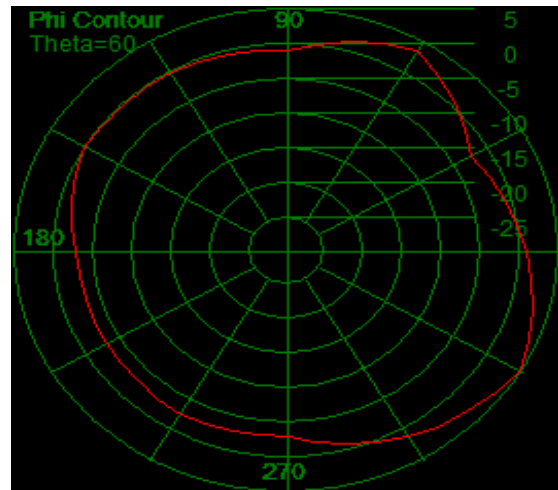
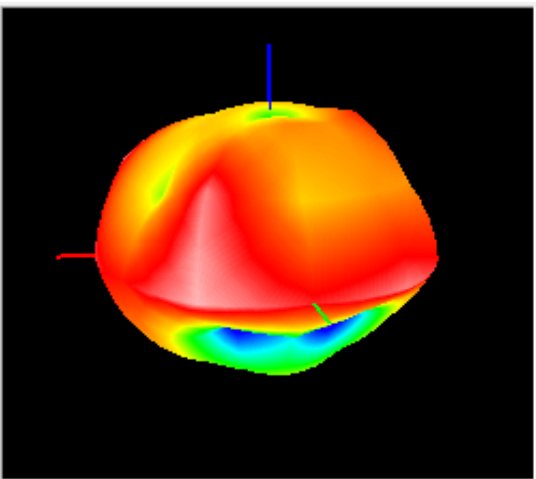


4G/5G Radiation Patterns

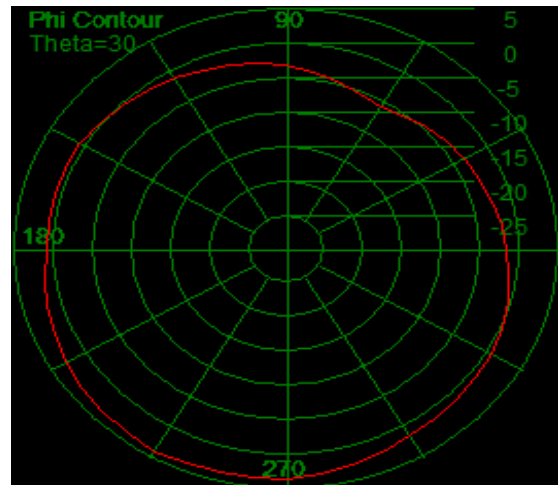
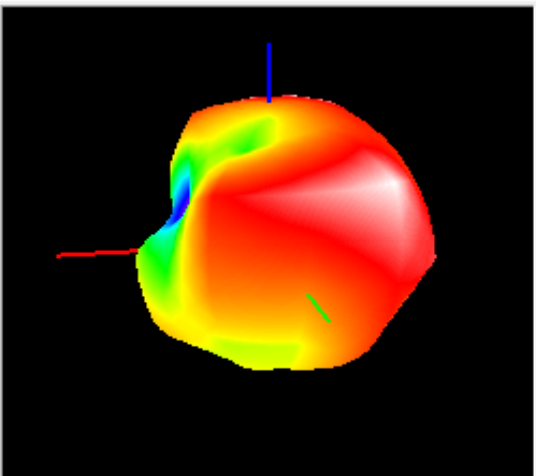
3800MHz



4000MHz

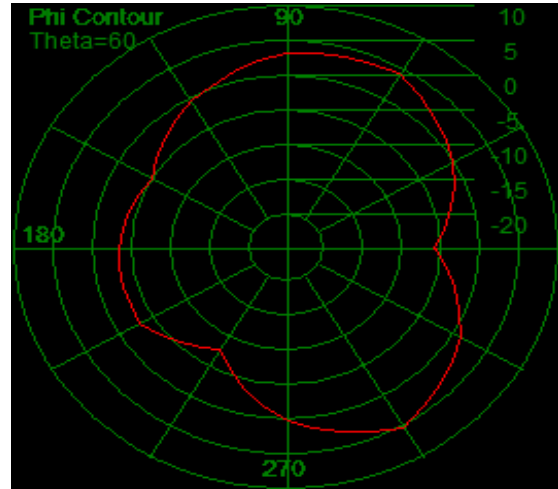
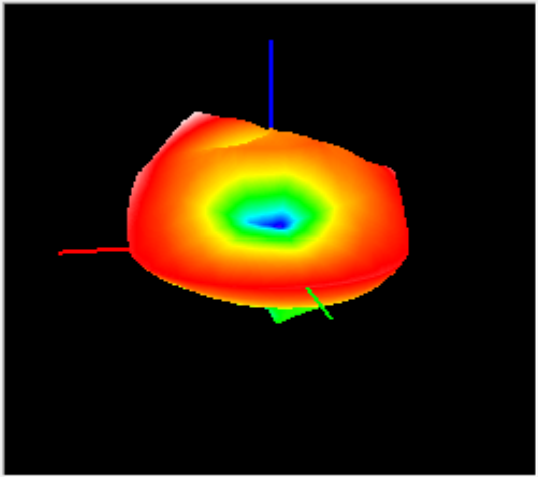


4500MHz

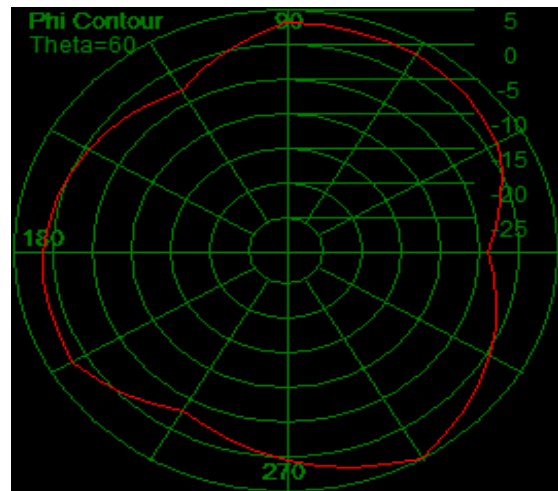
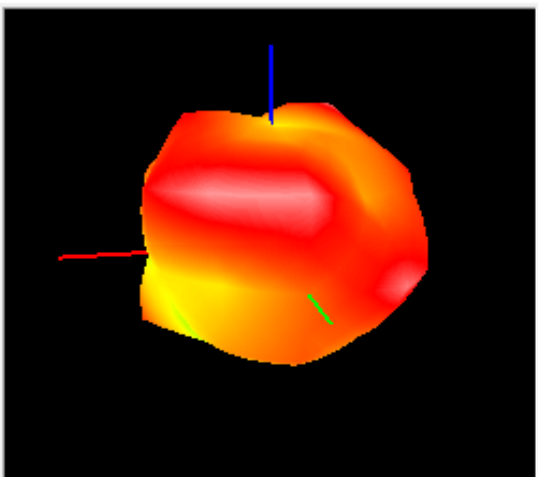


4G/5G Radiation Patterns

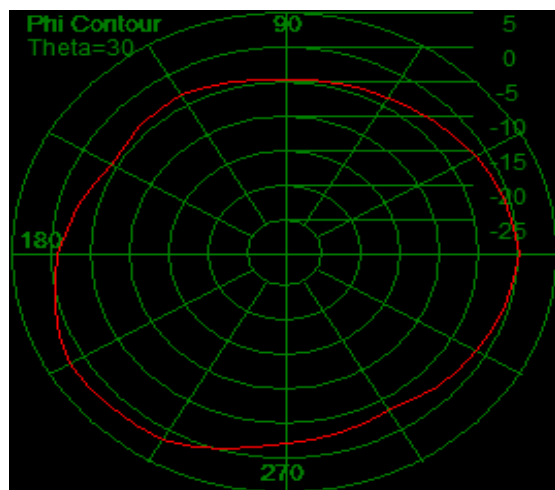
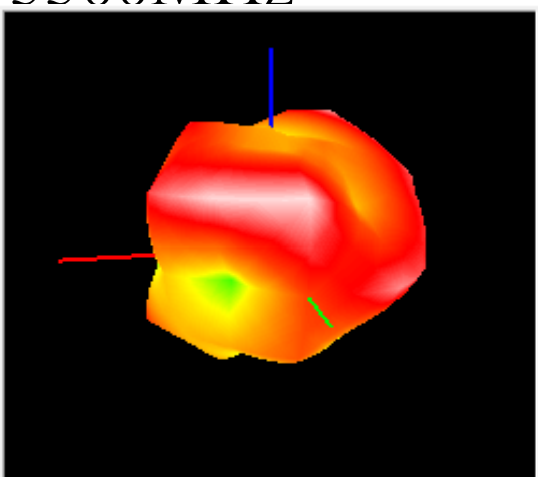
4900MHz



5300MHz

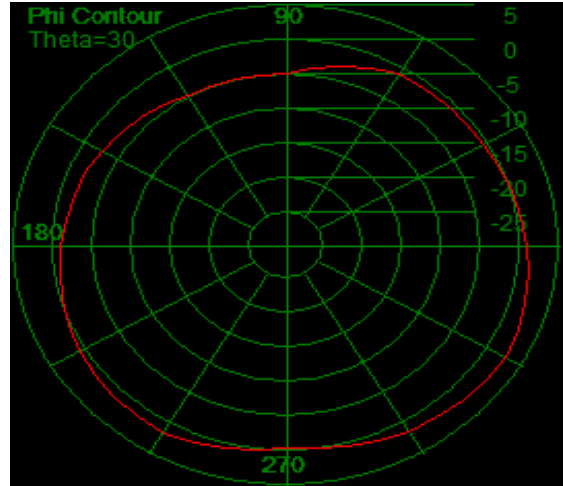
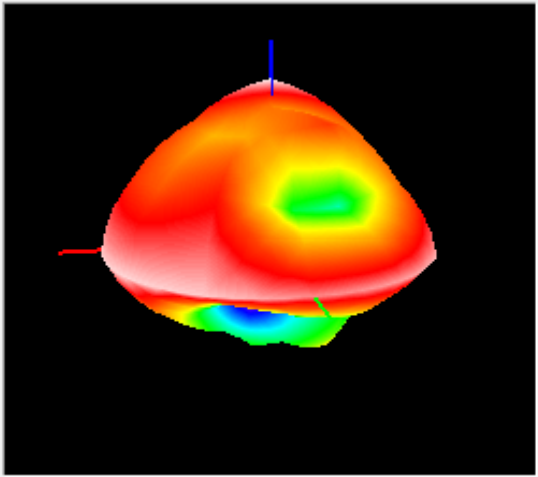


5500MHz

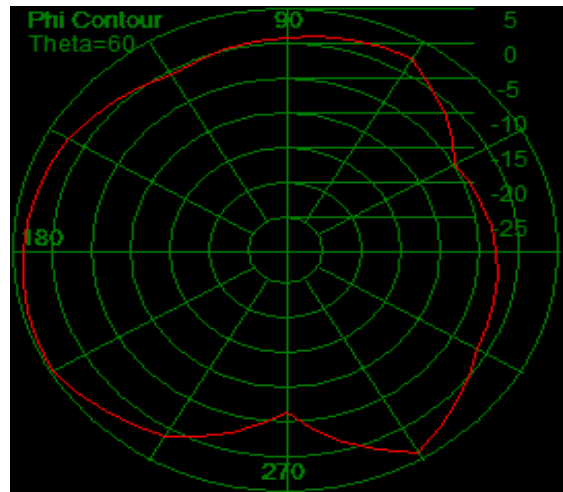
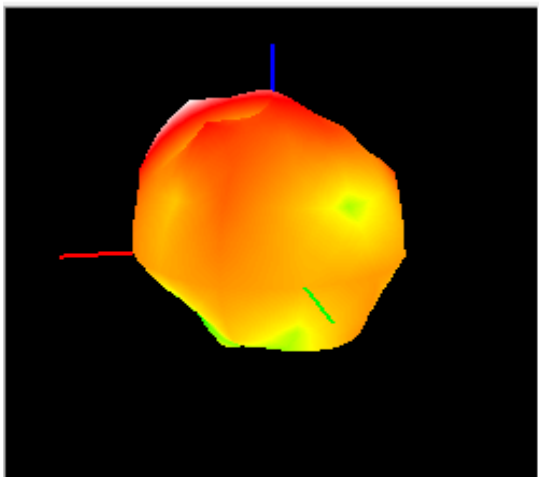


4G/5G Radiation Patterns

5800MHz

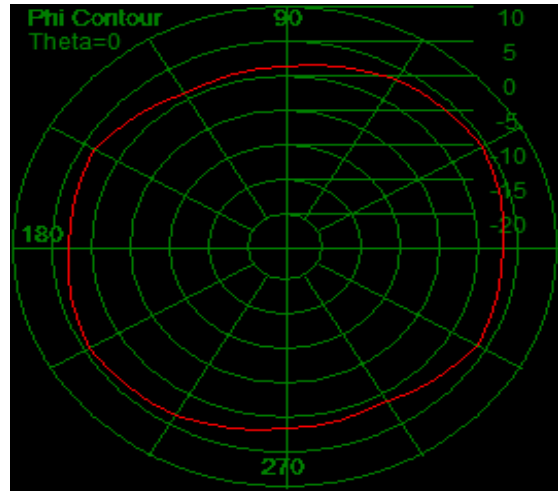
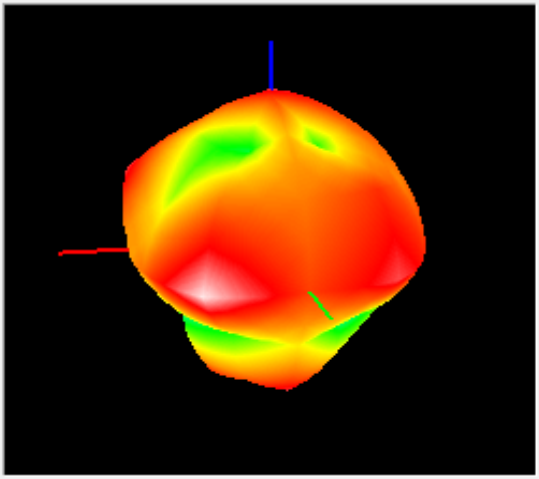


6000MHz

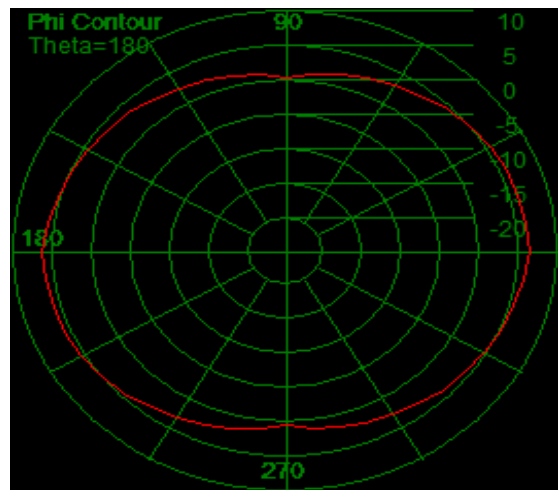
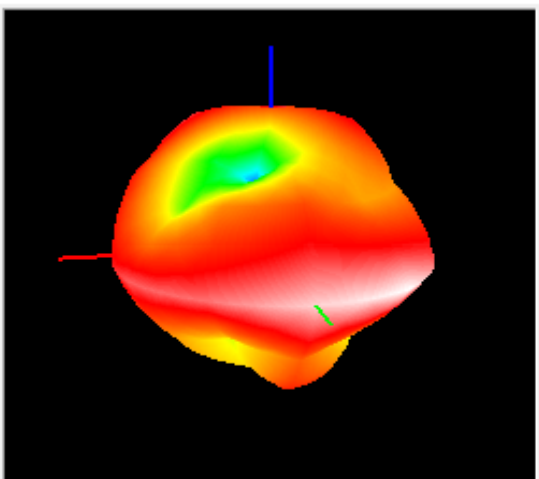


WiFi Radiation Patterns

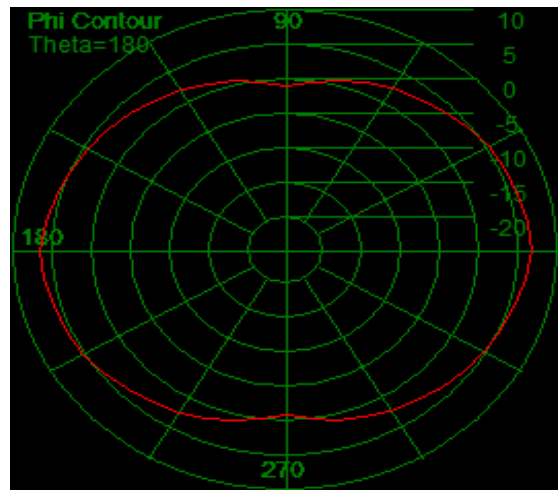
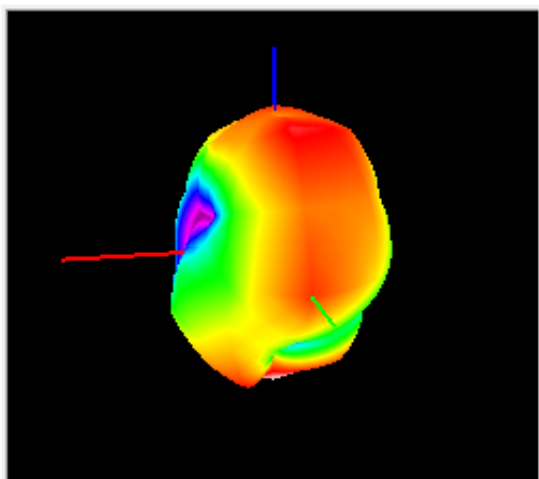
2400MHz



2450MHz

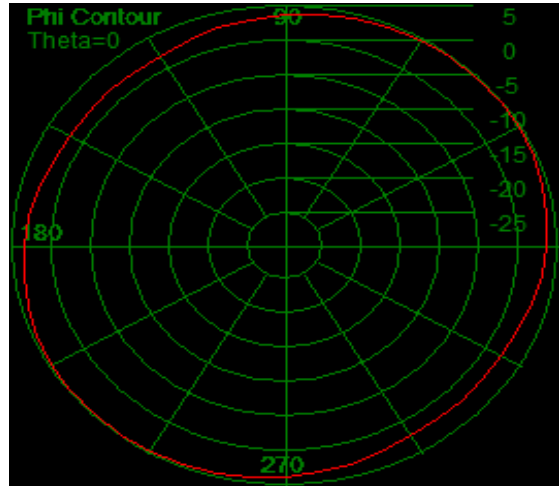
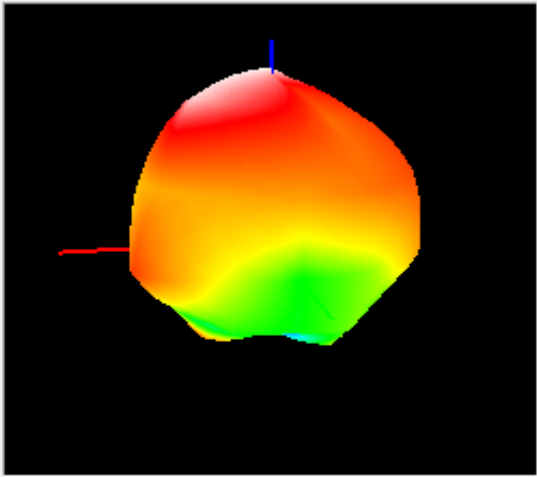


2500MHz

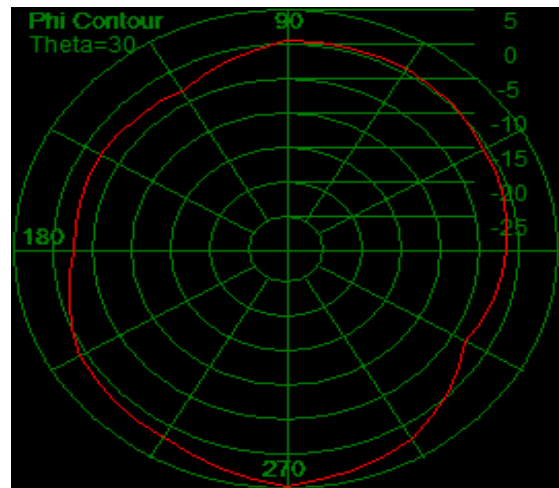
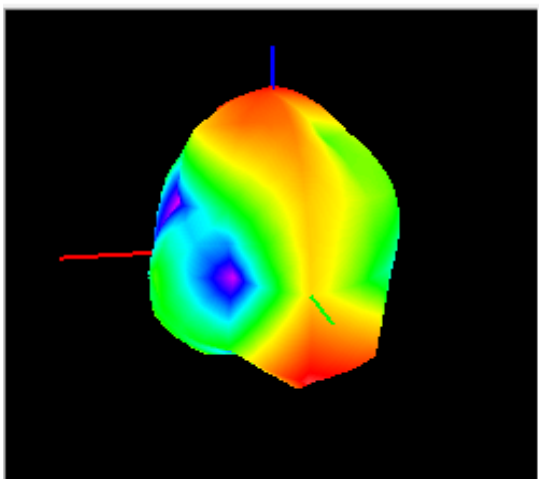


WiFi Radiation Patterns

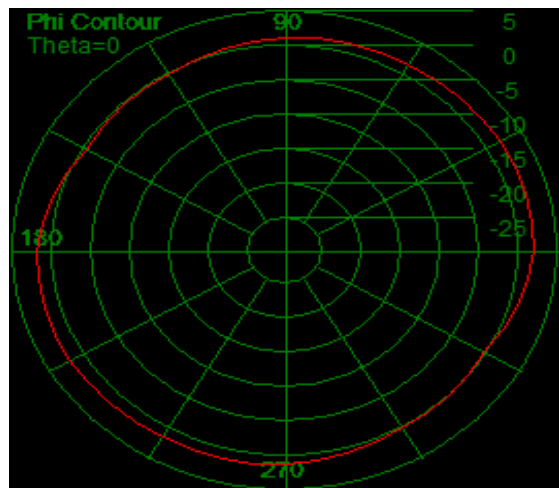
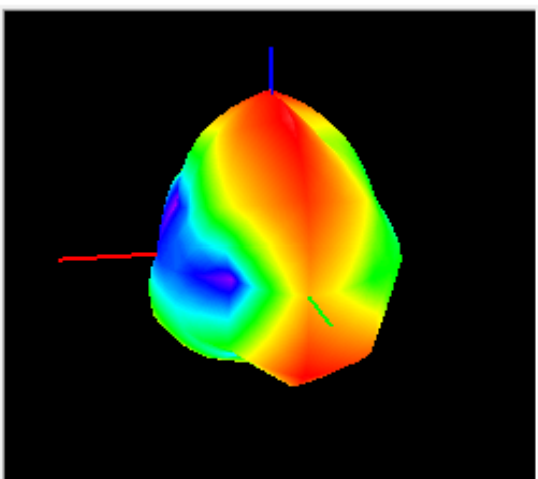
4900MHz



5150MHz

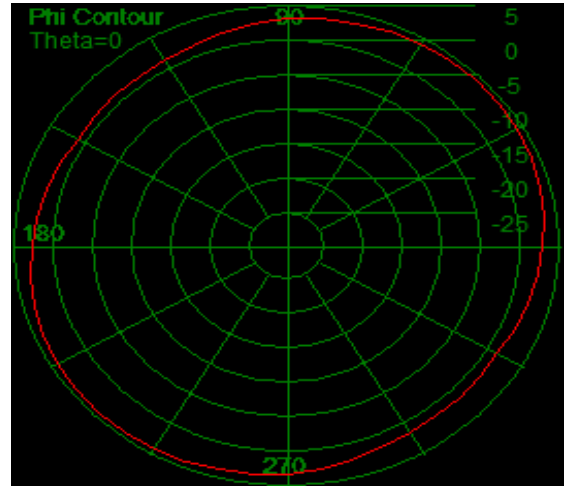
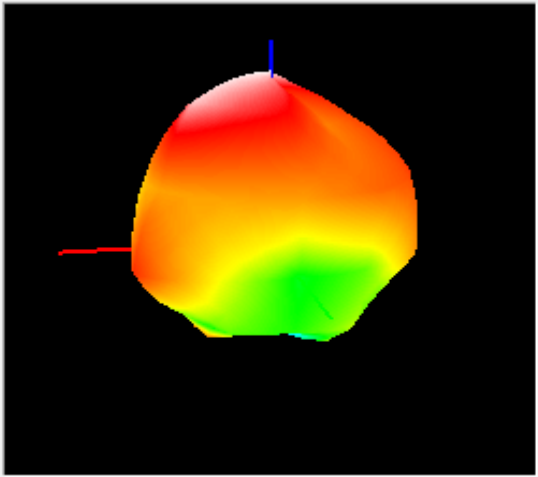


5300MHz

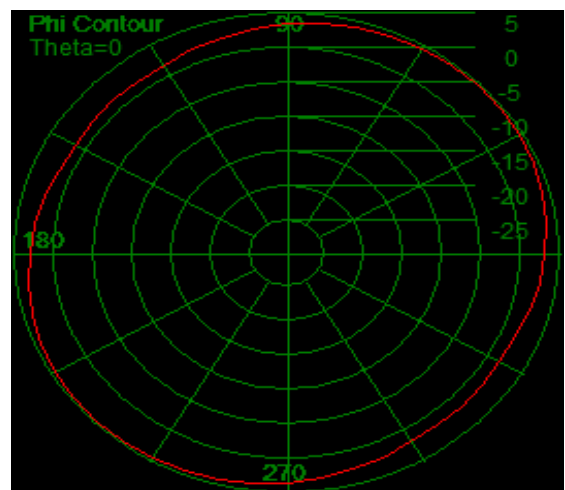
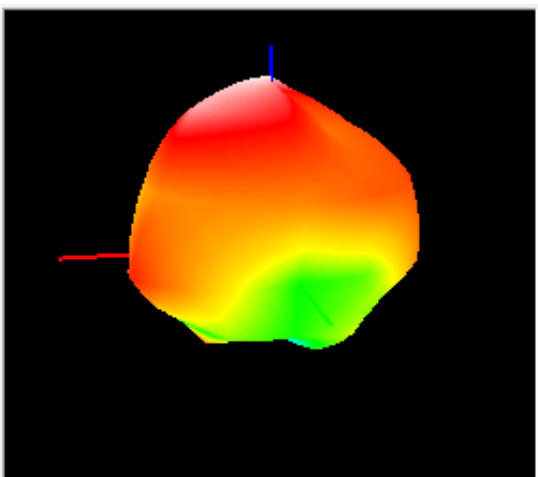


WiFi Radiation Patterns

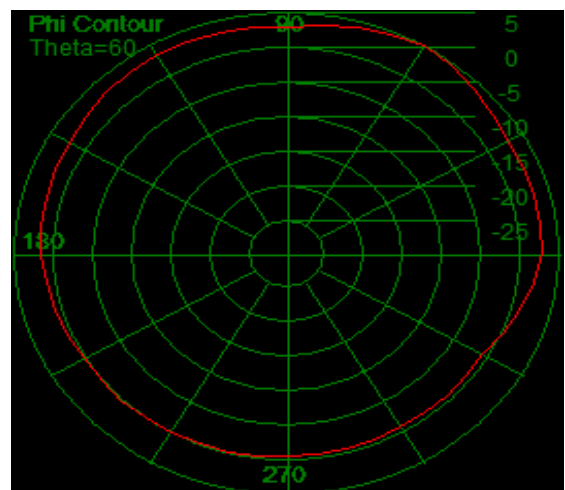
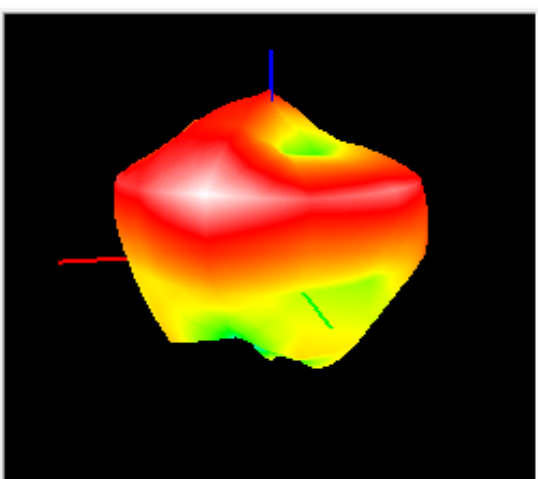
5500MHz



5850MHz



6125MHz



WiFi Radiation Patterns

7200MHz

