Antenna Datasheet

Product OC: YEMN308L1BM
Version: 1.0
Date: 2026-01-15
Status: Released
Product Name: 5G & Wi-Fi & GNSS 3in1 Multiple Mount Combo External Antenna

Key Features:

Frequency Band: 5G: 698–960 MHz, 1420–2690 MHz, 3300–6000 MHz
Wi-Fi: 2400–2500 MHz, 5150–5850 MHz，5925–7125 MHz
GNSS: 1565–1606 MHz
Dimensions: Φ 81 mm × 15.5 mm
Efficiency: Up to 57.2 % (5G-FS), Up to 54.09 % (GNSS)
GNSS LNA Gain: 18 ±3 dB
RoHS & REACH Compliant
IP67

Overview

YEMN308L1BM is a 5G & Wi-Fi & GNSS 3in1 combo antenna measuring Φ 81 mm × 15.5 mm. This ultra-wideband antenna supports 5G, Wi-Fi, and GNSS across 698–960 MHz, 1420–2690 MHz, 3300–6000 MHz, 2400–2500 MHz, 5150–5850 MHz, 5925–7125 MHz, and 1565–1606 MHz. It is backward compatible with 3G, 2G, LTE Cat-M, and NB-IoT. The antenna is available with connection via 3 cables lengths from 1000 mm, terminated with SMA Male connectors. Ideal for applications where the antenna is required to be discrete this low profile, adhesive and screw mount omni-directional antenna, is easy to install with maximum durability assured thanks to its IP67 rated enclosure. It is compatible with Quectel's 5G, WI-FI and GNSS series modules.

YEMN308L1BM has 1 × 5G LMH antennas, 1 × Wi-Fi antennas and 1 × GNSS L1 antenna. It allows high efficiency, stable signal transmission and reception for active GNSS from 1565–1606 MHz, WI-FI from 2400–2500 MHz, 5150–5850 MHz, 5925–7125 MH and 5G bands from 600–960 MHz, 1420–2690 MHz, 3300–6000 MHz. In the meantime, this product also offers high isolation between antennas to avoid self-interference. All in all, this unique product is designed to provide stable and high-speed data connection to 5G & Wi-Fi & GNSS applications.

- **Typical Applications Include:**

✓ HD Video Streaming over LTE
✓ Vehicle Tracking and Telematic System
✓ IoT Applications
✓ Emergency Service System
✓ Warehouses & Logistic systems
✓ Mining Vehicles & Machinery communications, telemetry and automation

Quectel provides comprehensive antenna design support such as simulation, testing and manufacturing for custom antenna solutions to meet your specific application needs. We have regional R & D centers to offer quick response to meet your requirements. Please contact our sales & FAEs if you have any requests.

Contents

1 Specification

Test Condition: On 300 mm × 300 mm Metal Plane & In Free Space

1.1. Electrical

Electrical Specifications			
Frequency Range	**5G**		698–960 MHz, 1420–2690 MHz, 3300–6000 MHz
	Wi-Fi		2400–2500 MHz, 5150–5850 MHz, 5925–7125 MHz
	GNSS		1565–1606 MHz
Radiation Pattern	**5G**		Omni-directional
	Wi-Fi		Omni-directional
	GNSS		Directional
Polarization	**5G**		Linear
	Wi-Fi		Linear
	GNSS		RHCP
Impedance			50 Ω
Isolation	**5G-Wi-Fi**	**FS**	≤ -12.3 dB
		MP	≤ -12.1 dB
	5G-GNSS	**FS**	≤ -40.6 dB
		MP	≤ -39.2 dB
	Wi-Fi-GNSS	**FS**	≤ -40.9 dB
		MP	≤ -41.7 dB

- **MP: On 300 mm × 300 mm Metal Plane**
- **FS: In Free Space**

1.1.1. 5G

Electrical – Detail												
Band / SPEC	Band	B71	B12 /B13 /B28	B5 /B8 /B26	n74 /n75 /n76	B1 /B2 /B3	B40	Wi-Fi 2G	B38 /B41	B42 /B48 /n77	n79	Wi-Fi 5G
	Freq. (MHz)	600–700	700–810	820–960	1420–1520	1700–2170	2300–2400	2400–2500	2500–2690	3300–4200	4400–5000	5150–5850
Max. VSWR	FS	3.6	2.7	3.4	2.9	2.3	2.1	1.7	1.5	1.9	1.9	1.9
	MP	3.6	3.0	3.1	3.4	4.8	1.9	2.6	2.9	2.4	1.8	2.4
Max. Return Loss (dB)	FS	-4.9	-6.8	-5.3	-7.2	-8.2	-9.0	-11.4	-13.8	-10.3	-10.1	-10.1
	MP	-4.7	-6.1	-5.7	-5.2	-3.7	-8.8	-7.1	-6.3	-7.6	-10.8	-7.6
AVG Eff. (%)	FS	32.4	47.7	43.2	29.8	44.3	39.9	46.4	51.8	45.2	38.7	40.8
	MP	19.8	41.7	30.4	21.2	20.3	41.6	35.9	33.6	40.3	41.5	38.1
AVG. AVG Gain (dB)	FS	-4.9	-3.2	-3.7	-4.9	-3.6	-4.0	-3.3	-2.9	-3.5	-4.1	-3.9
	MP	-7.1	-3.9	-5.3	-6.8	-7.1	-3.8	-4.5	-4.7	-4.0	-3.8	-4.2
Max. Peak Gain (dBi)	FS	1.5 (620)	2.8 (790)	2.7 (920)	1.1 (1520)	2.9 (2030)	1.2 (2310)	3.0 (2430)	2.5 (2580)	2.7 (3500)	3.9 (4750)	3.6 (5280)
	MP	-0.1 (670)	2.0 (790)	0.6 (820)	-1.2 (1520)	2.4 (2160)	4.0 (2370)	4.5 (2450)	4.6 (2660)	5.4 (3300)	4.0 (4490)	4.2 (5290)
VSWR			FS			≤ 3.6						
			MP			≤ 4.8						
Return Loss			FS			≤ -4.9 dB						
			MP			≤ -3.7 dB						
Gain			FS			≤ 3.9 dBi						
			MP			≤ 5.4 dBi						

1.1.2. Wi-Fi

Electrical – Detail				
Band / Specification	Band	Wi-Fi 2G	Wi-Fi 5G	Wi-Fi 6G
	Freq. (MHz)	2400–2500	5150–5850	5925–7125
Max. VSWR	FS	2.1	2.1	1.9
	MP	3.1	2.1	2.2
Max. Return Loss (dB)	FS	-8.9	-9.0	-9.2
	MP	-5.8	-9.0	-8.7
AVG Eff. (%)	FS	46.4	37.3	34.1
	MP	29.5	39.0	36.1
AVG. AVG Gain (dB)	FS	-3.3	-4.3	-4.7
	MP	-5.3	-4.1	-4.5
Max. Peak Gain (dBi)	FS	3.2 (2450)	4.2 (5810)	3.3 (6175)
	MP	2.5 (2450)	2.4 (5600)	3.7 (6115)
VSWR	FS	≤ 2.1		
	MP	≤ 3.1		
Return Loss	FS	≤ - 8.9 dB		
	MP	≤ - 5.8 dB		
Peak Gain	FS	≤ 4.2 dBi		
	MP	≤ 3.7 dBi		

1.1.3. GNSS

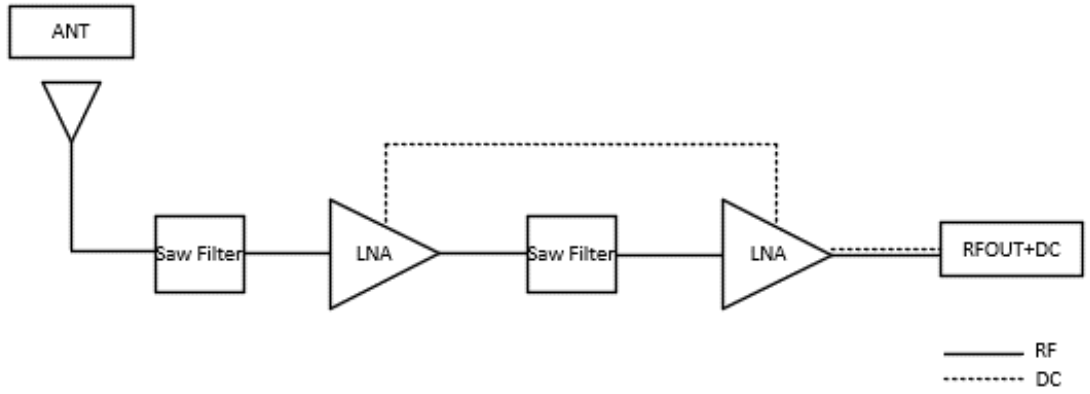
Band / Frequency (MHz)	GPS L5 GALILEO E5a BDS B2a-B2I QZSS L5 IRNSS L5	GALILEO E5b BDS B2b	GPS L2 QZSS L2C	GLONASS G2	BDS B3	BDS B1I	GPS L1 GALILEO E1 BDS B1C QZSS L1	GLONASS G1
	1176	1207	1227	1248	1268	1561	1575	1602
VSWR	-	-	-	-	-	-	1.7	1.5
Return Loss (dB)	-	-	-	-	-	-	-11.46	-13.63
Efficiency (%)	-	-	-	-	-	-	48.79	48.24
Peak Gain (dBi)	-	-	-	-	-	-	1.32	0.86

LNA Electrical	
LNA Gain	18 ±3 dB @ 3 V 17 ±3 dB @ 1.8 V
Noise Figure	≤ 2.5 dB
Output VSWR	≤ 2.0
Input VSWR	≤ 2.0
Filter Out-of-Band Attenuation	60 dB f0 ±100 MHz f0 (1588 MHz)
Working Voltage	1.8–3.3 V
Working Current	8.7 ±2 mA
Impedance	50 Ω

1.2. Mechanical & Environmental

Mechanical		
Antenna Dimensions		Φ 81 mm × 15.5 mm
Antenna Material & Color		ABS & Black
Cable Type & Color & Length	**5G**	RG174 & Black & 1000 mm
	Wi-Fi	RG174 & Black & 1000 mm
	GNSS	RG174 & Black & 1000 mm
Connector Type		SMA Male
Mounting Type		Adhesive & Screw
Weight		Typ. 103.6 g
Environmental		
Operation Temperature		-20 °C to +70 °C
Storage Temperature		-20 °C to +70 °C
Ingress Protection (IP) Rating		IP67
RoHS & REACH Compliant		Yes

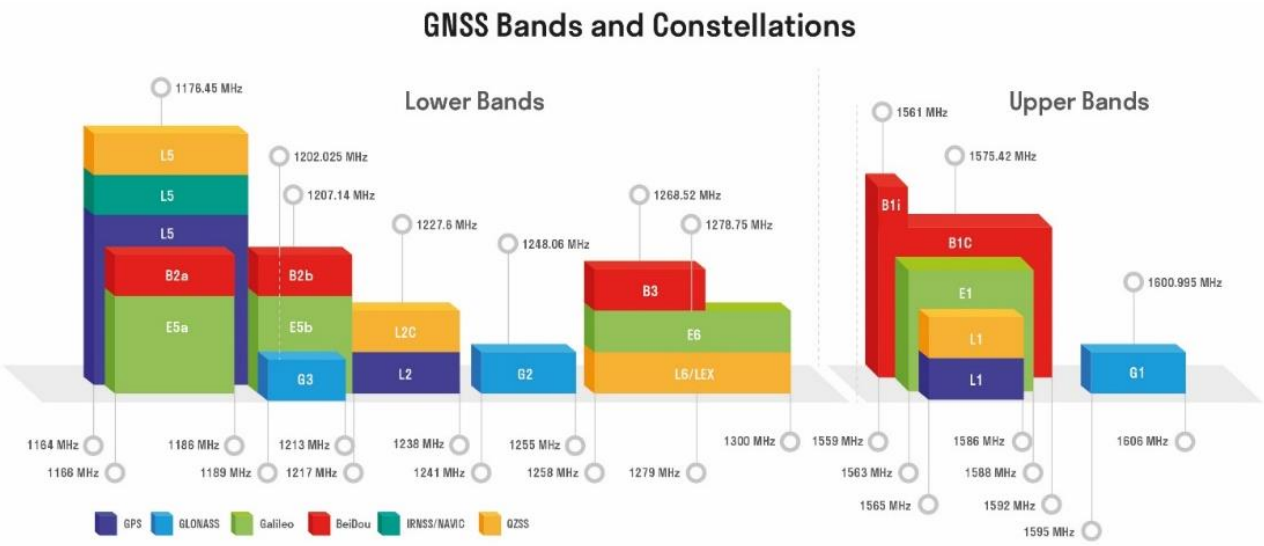
1.3. Block Diagram (Active Antenna)



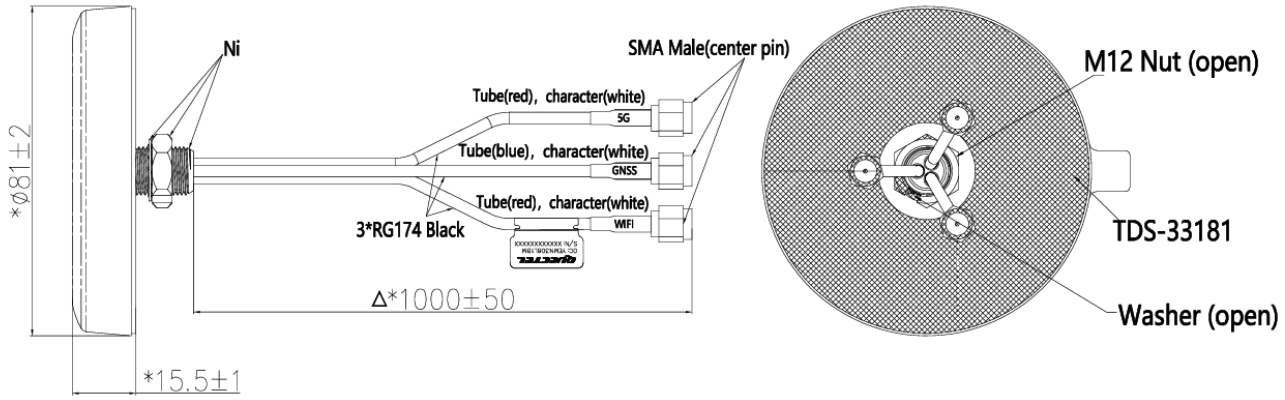
1.4. Supported GNSS Frequency Bands

GNSS Frequency Bands (MHz)					
GPS	**L1** Centre 1575.42 (1565–1586)	**L2** Centre 1227.6 (1217–1238)	**L5** Centre 1176.45 (1164–1189)		
	√	-	-		
GLONASS	**G1-L1OC-L1OF** Centre 1601 (1595–1606)	**G2-L2OC-L2OF** Centre 1248.06 (1241–1255)	**G3-L3OC** Centre 1202.025 (1189–1213)		
	√	-	-		
GALILEO	**E1** Centre 1575.42 (1563–1588)	**E5a** Centre 1176.45 (1166–1187)	**E5b** Centre 1207.14 (1197–1218)	**E6** Centre 1278.75 (1258–1300)	
	√	-	-	-	
BDS	**B1I** Centre 1561.098 (1559–1564)	**B1C (BDS-3)** Centre 1575.42 (1559–1592)	**B2a-B2I** Centre 1176.45 (1166–1187)	**B2b** Centre 1207.14 (1197–1217)	**B3** Centre 1268.52 (1258–1279)
	-	√	-	-	-

QZSS	**L1** Centre 1575.42 (1573–1578)	**L2C** Centre 1227.6 (1226–1229)	**L5** Centre 1176.45 (1166–1187)	**L6** Centre 1278.75 (1257–1300)	
	√	-	-	-	
IRNSS	**L5** Centre 1176.45 (1164–1189)				
	-				



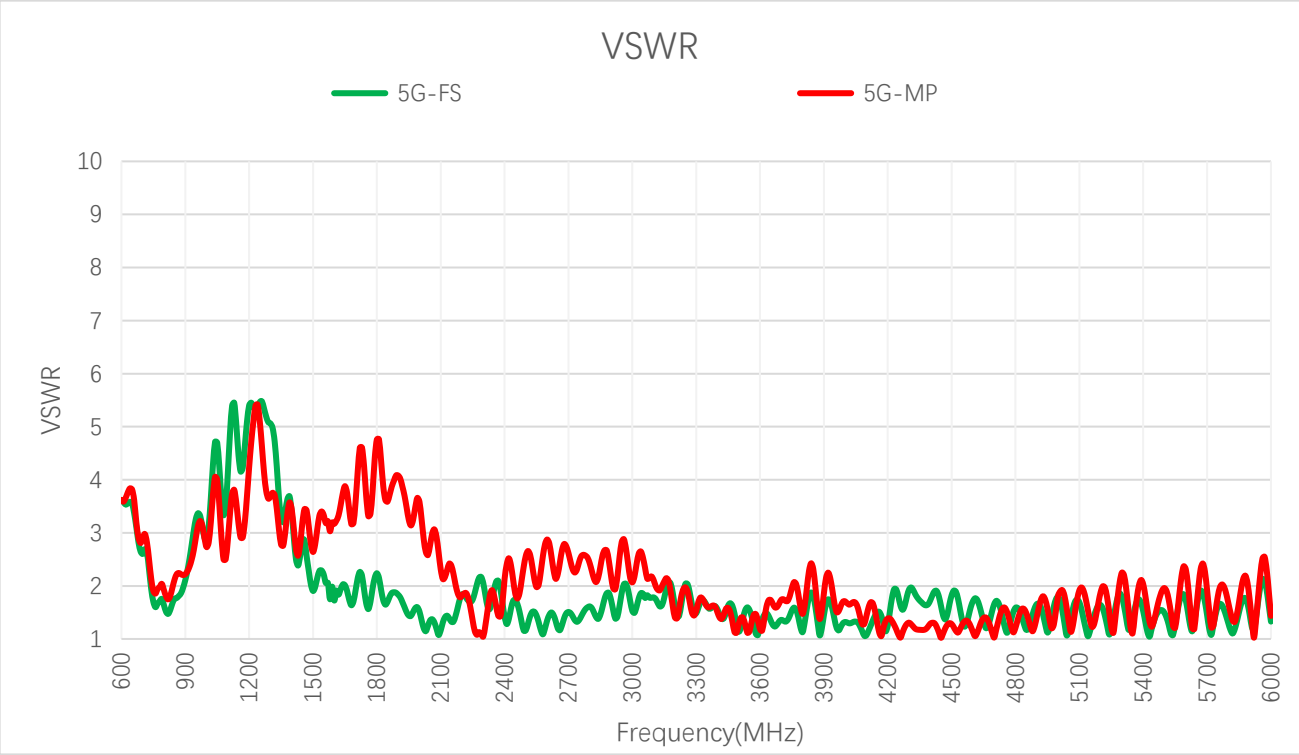
2 Drawing


Ni
SMA Male(center pin)
M12 Nut (open)
Tube(red), character(white)
5G
Tube(blue), character(white)
GNSS
Tube(red), character(white)
WIFI
3*RG174 Black
TDS-33181
Washer (open)
*ø81±2
Δ*1000±50
*15.5±1

3 Detailed Performance

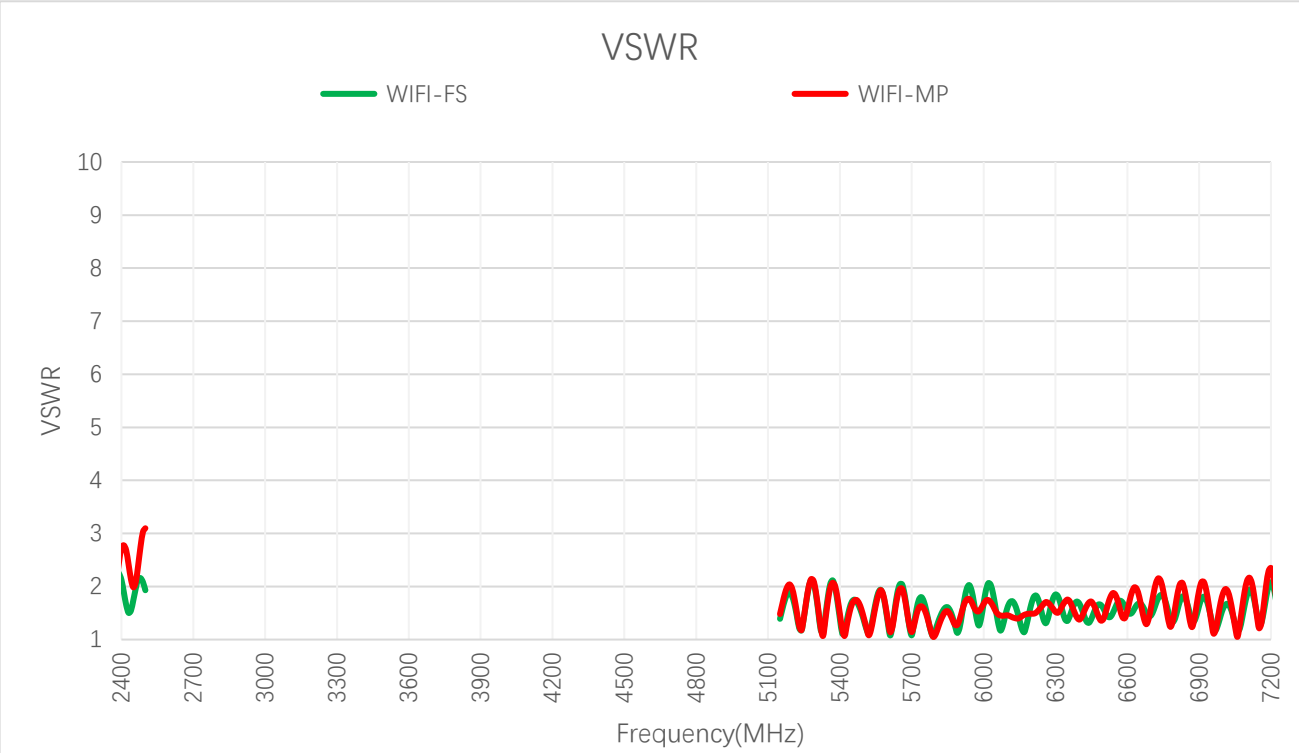
3.1. S-Parameter Test

3.1.1. VSWR



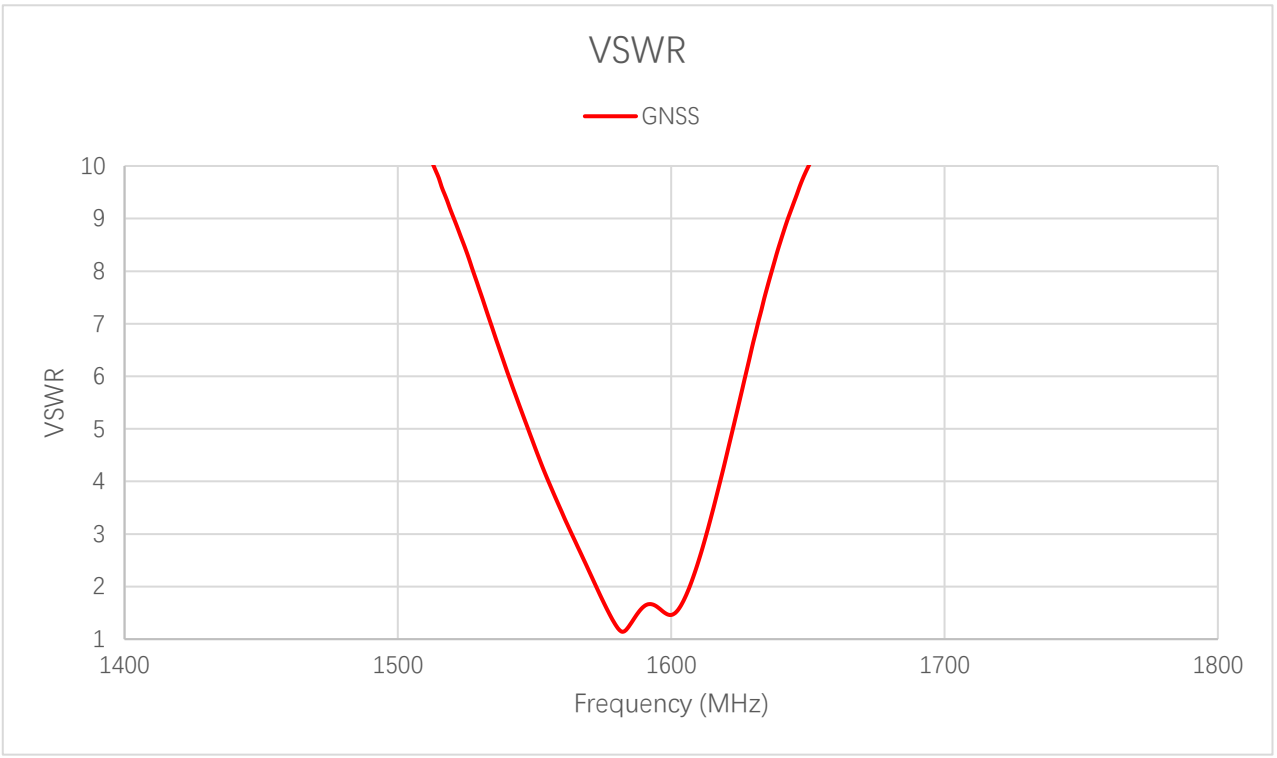
VSWR – 5G

Frequency (MHz)		600	630	710	830	900	960	1440	1710	1740	1880
VSWR	FS	3.6	3.5	2.7	1.5	2.1	3.4	2.6	2.1	1.9	1.8
	MP	3.6	3.7	3.0	1.8	2.2	3.1	2.8	4.1	4.2	4.0
Frequency (MHz)		**1950**	**2140**	**2350**	**2450**	**2600**	**2690**	**4700**	**5000**	**5500**	**6000**
VSWR	FS	1.4	1.4	1.9	1.7	1.3	1.5	1.6	1.8	1.5	1.3
	MP	3.2	2.4	1.8	1.8	2.8	2.7	1.0	1.8	1.9	1.4



VSWR – Wi-Fi

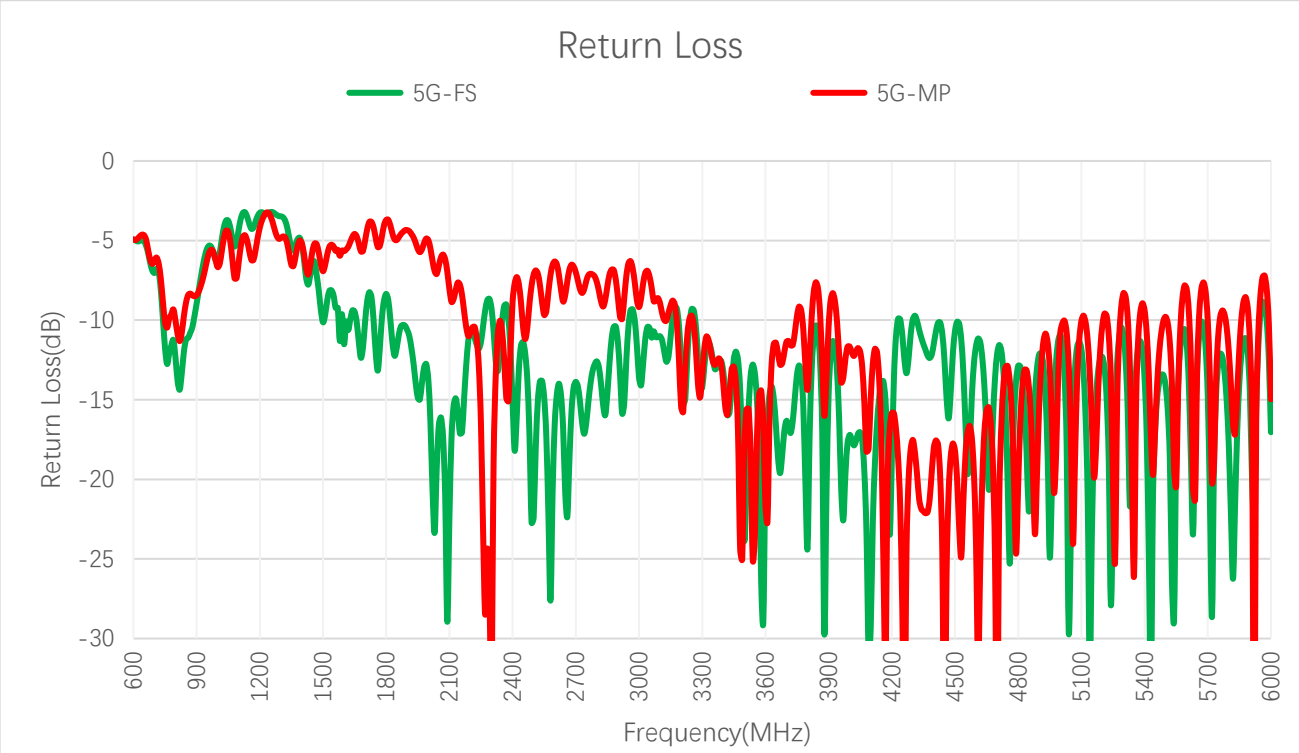
Frequency (MHz)		2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
VSWR	FS	2.1	1.7	1.9	1.4	1.4	1.6	1.8	1.5	1.7	1.7
	MP	2.7	2.0	3.1	1.5	1.4	1.5	1.7	1.6	2.0	1.8



VSWR – GNSS

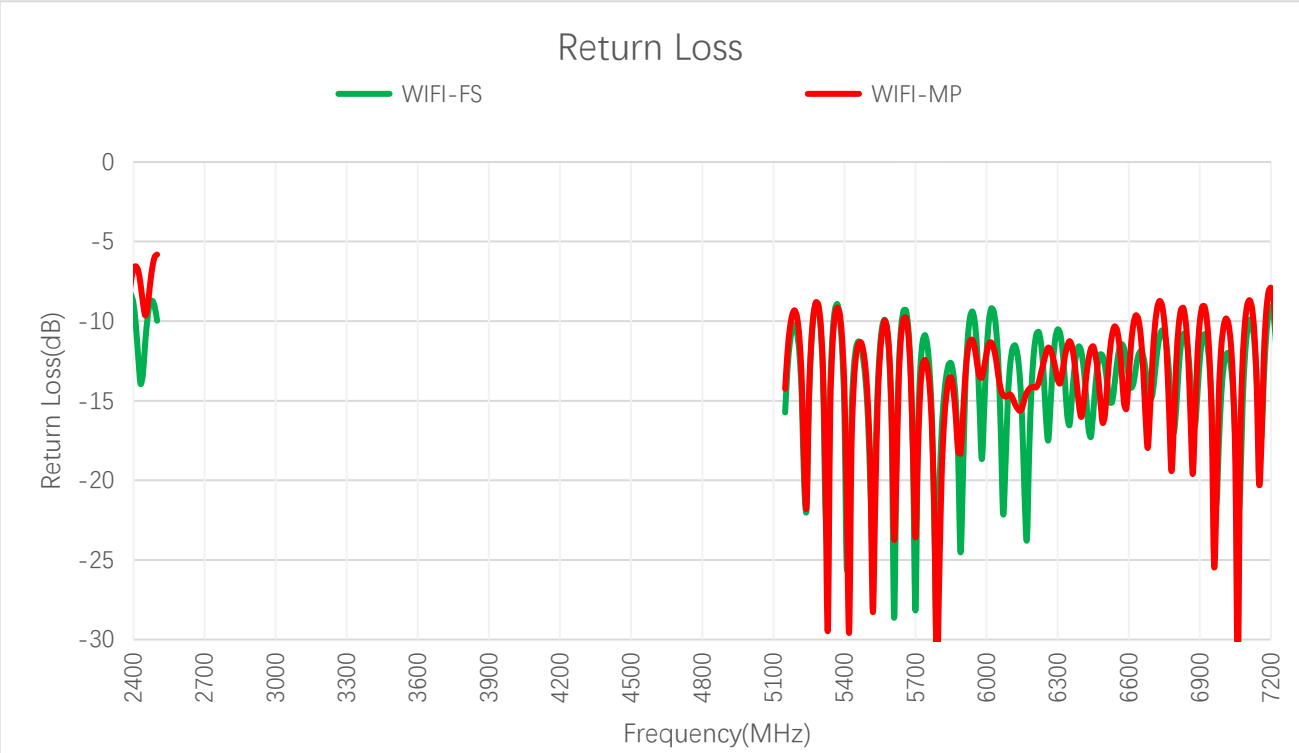
Frequency (MHz)	1176	1207	1227	1248	1268	1561	1575	1602
VSWR	-	-	-	-	-	-	1.7	1.5

3.1.2. Return Loss



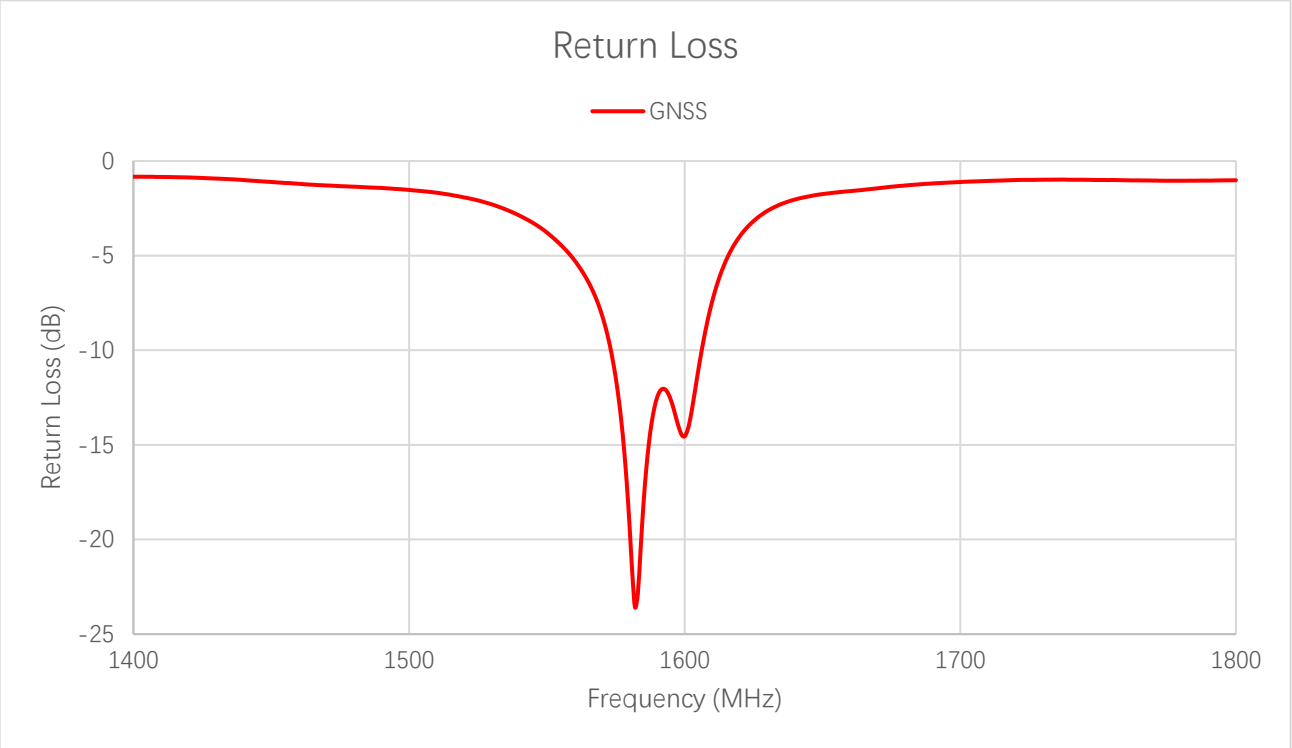
Return Loss (dB) – 5G

Frequency (MHz)		600	630	710	830	900	960	1440	1710	1740	1880
Return Loss (dB)	FS	-4.9	-5.0	-6.8	-13.3	-9.0	-5.3	-7.1	-8.8	-10.0	-10.3
	MP	-4.9	-4.7	-6.1	-10.8	-8.4	-5.7	-6.5	-4.3	-4.2	-4.5
Frequency (MHz)		**1950**	**2140**	**2350**	**2450**	**2600**	**2690**	**4700**	**5000**	**5500**	**6000**
Return Loss (dB)	FS	-14.9	-15.8	-10.1	-11.4	-16.5	-14.2	-12.1	-10.9	-14.1	-17.0
	MP	-5.5	-7.6	-10.7	-10.5	-6.3	-6.6	-37.6	-10.8	-9.8	-15.0



Return Loss (dB) – Wi-Fi

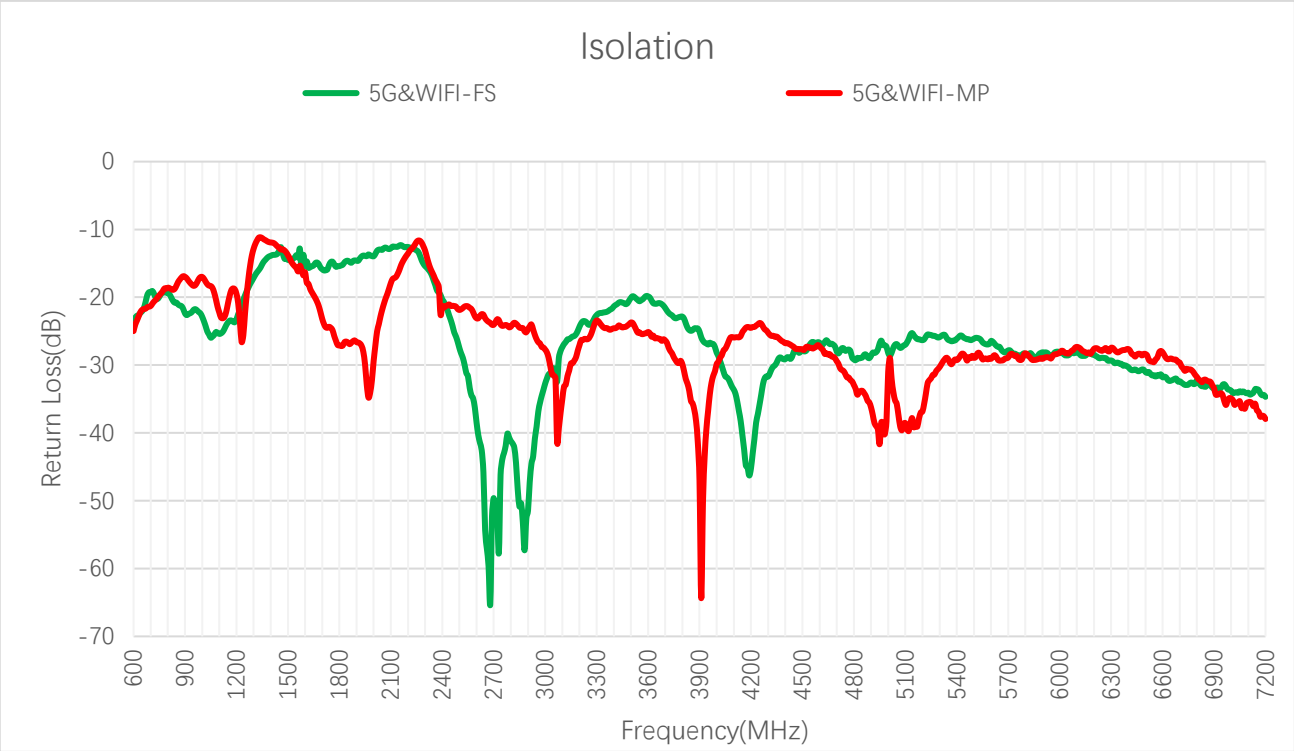
Frequency (MHz)		2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Wi-Fi	FS	-8.9	-11.3	-10.0	-15.7	-16.3	-12.6	-11.2	-13.6	-11.9	-11.3
	MP	-6.7	-9.6	-5.8	-14.3	-15.4	-13.5	-11.9	-12.3	-9.2	-10.7



Return Loss (dB) – GNSS

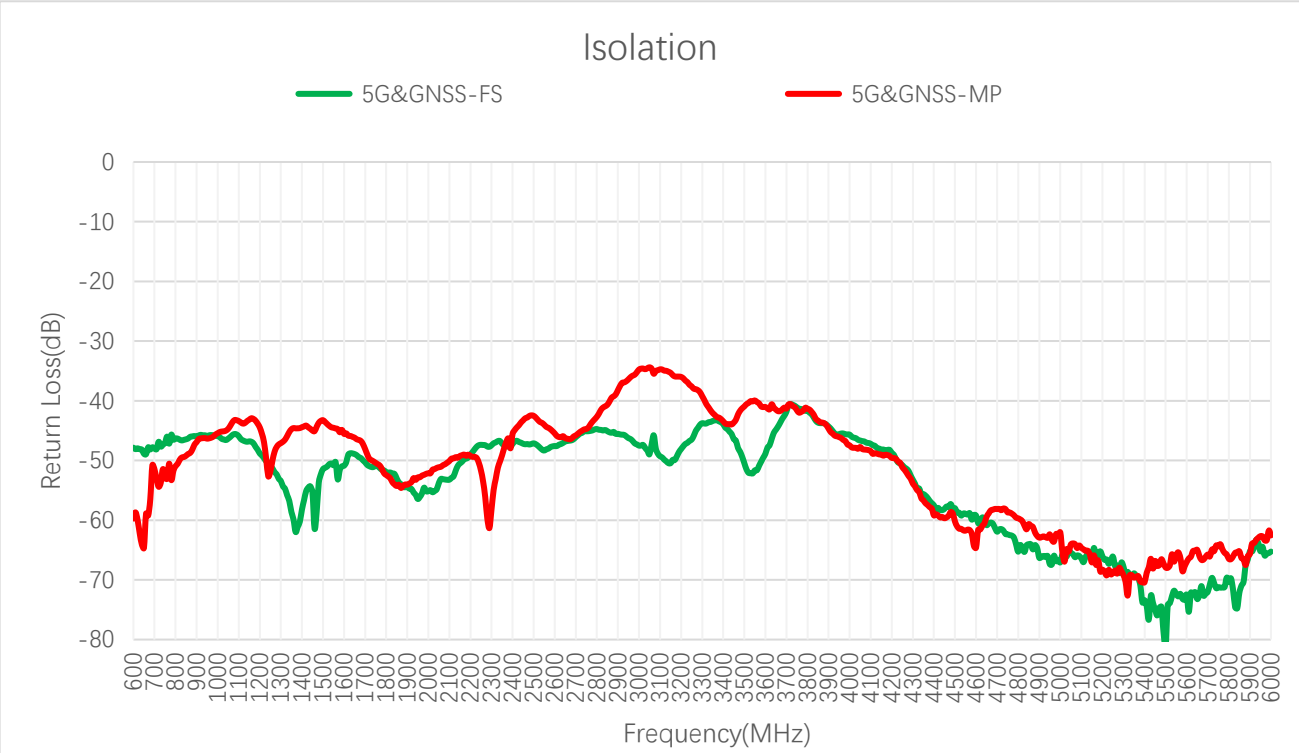
Frequency (MHz)	1176	1207	1227	1248	1268	1561	1575	1602
Return Loss (dB)	-	-	-	-	-	-	-11.46	-13.63

3.1.3. Isolation



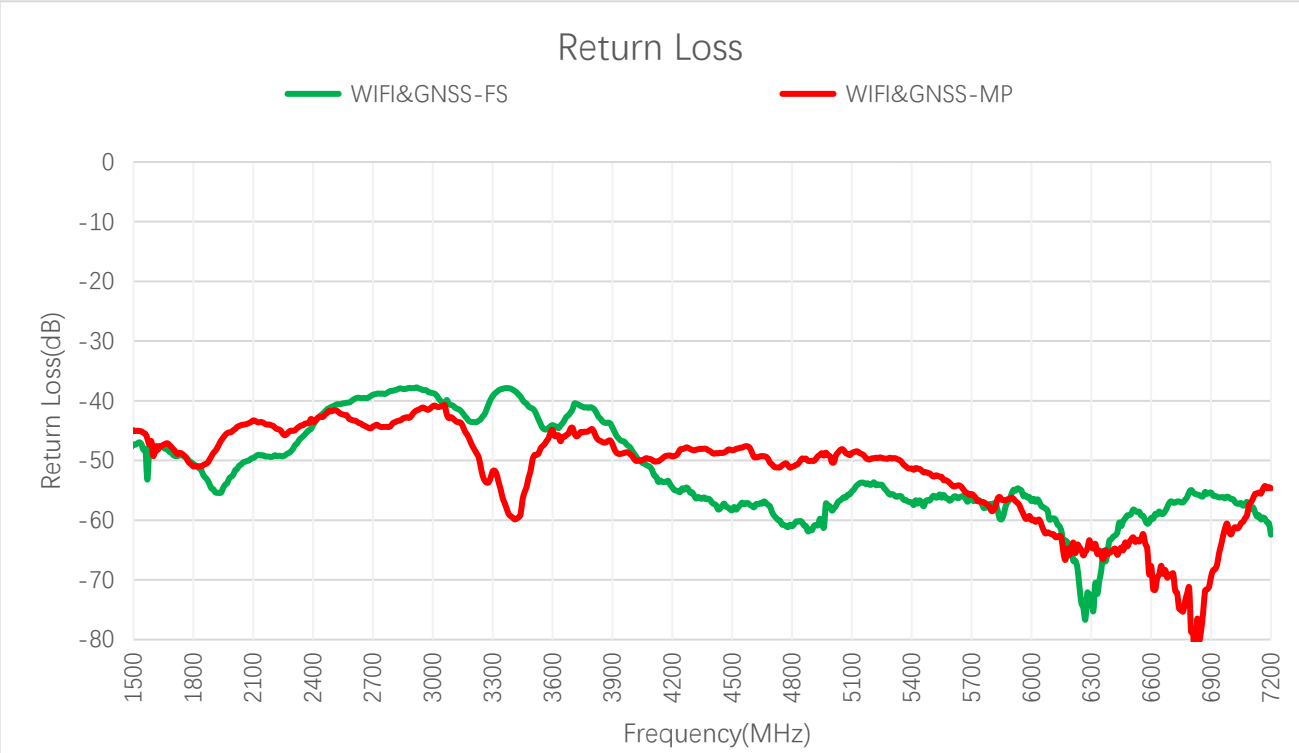
Max Isolation (dB)

Band		B71	B12/ B13/ B28	B5/ B8/ B26	n74/ n75/ n76	B1/ B2/ B3	B40	Wi-Fi 2G	B38/ B41	Wi-Fi 5G	Wi-Fi 6G
Freq. (MHz)		600–700	700–810	820–960	1420–1520	1700–2170	2300–2400	2400–2500	2500–2690	5150–5850	5925–7125
5G & Wi-Fi	FS	-19.3	-19.1	-20.0	-12.6	-12.3	-15.4	-20.3	-27.5	-25.5	-28.0
	MP	-21.3	-18.6	-16.9	-12.1	-14.7	-13.1	-21.1	-21.3	-28.2	-27.3



Max Isolation (dB)

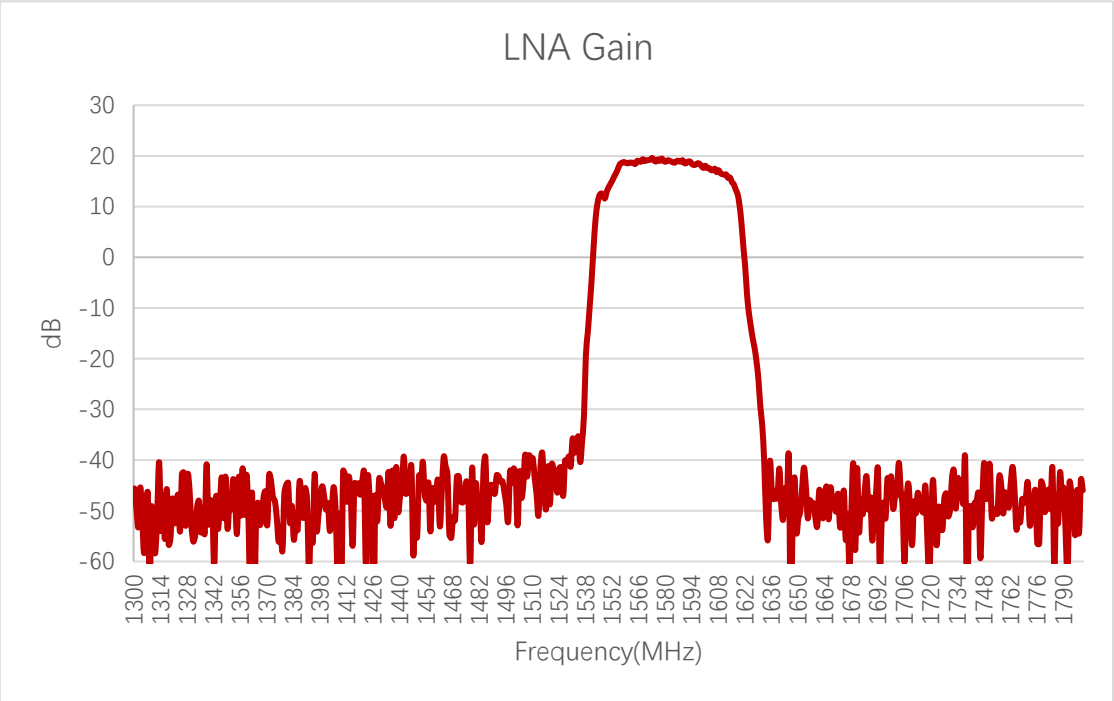
Band		B71	B12/ B13/ B28	B5/ B8/ B26	n74/ n75/ n76	B1/ B2/ B3	B40	Wi-Fi 2G	B38/ B41	B42/ B48/ n77	BDS B1I	GPS L1
Freq. (MHz)		600–700	700–810	820–960	1420–1520	1700–2170	2300–2400	2400–2500	2500–2690	3300–4200	1559–1564	1565–1586
5G & GNSS	FS	-47.8	-45.7	-45.7	-51.0	-49.8	-46.7	-46.7	-46.4	-40.6	-50.3	-51.5
	MP	-50.8	-50.5	-46.2	-43.2	-48.1	-45.5	-42.4	-42.5	-39.2	-44.6	-44.7



Max Isolation (dB)

Band		Wi-Fi 2G	Wi-Fi 5G	Wi-Fi 6G	BDS B1I	GPS L1
Freq. (MHz)		2400–2500	5150–5850	5925–7125	1559–1564	1565–1586
Wi-Fi & GNSS	FS	-40.9	-53.6	-54.7	-48.1	-47.9
	MP	-41.7	-48.9	-55.6	-45.5	-46.3

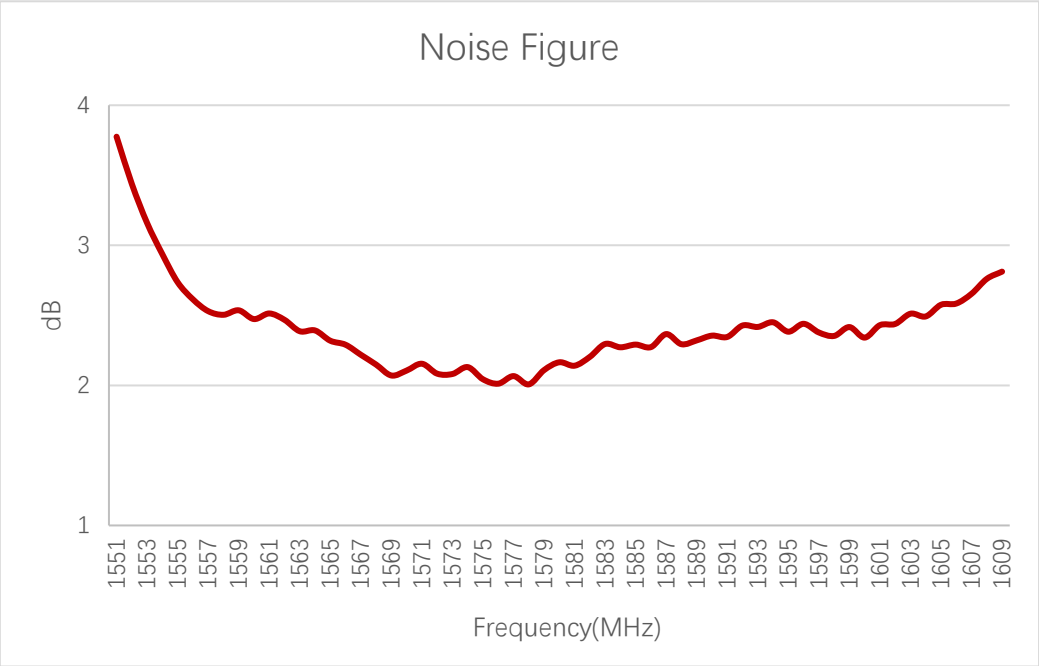
3.1.4. GNSS LNA Gain



LNA Gain (dB)

Frequency (MHz)	1176	1207	1227	1248	1268	1561	1575	1602
LNA Gain (dB)	-	-	-	-	-	-	18.8	17.5

3.1.5. GNSS Noise Figure

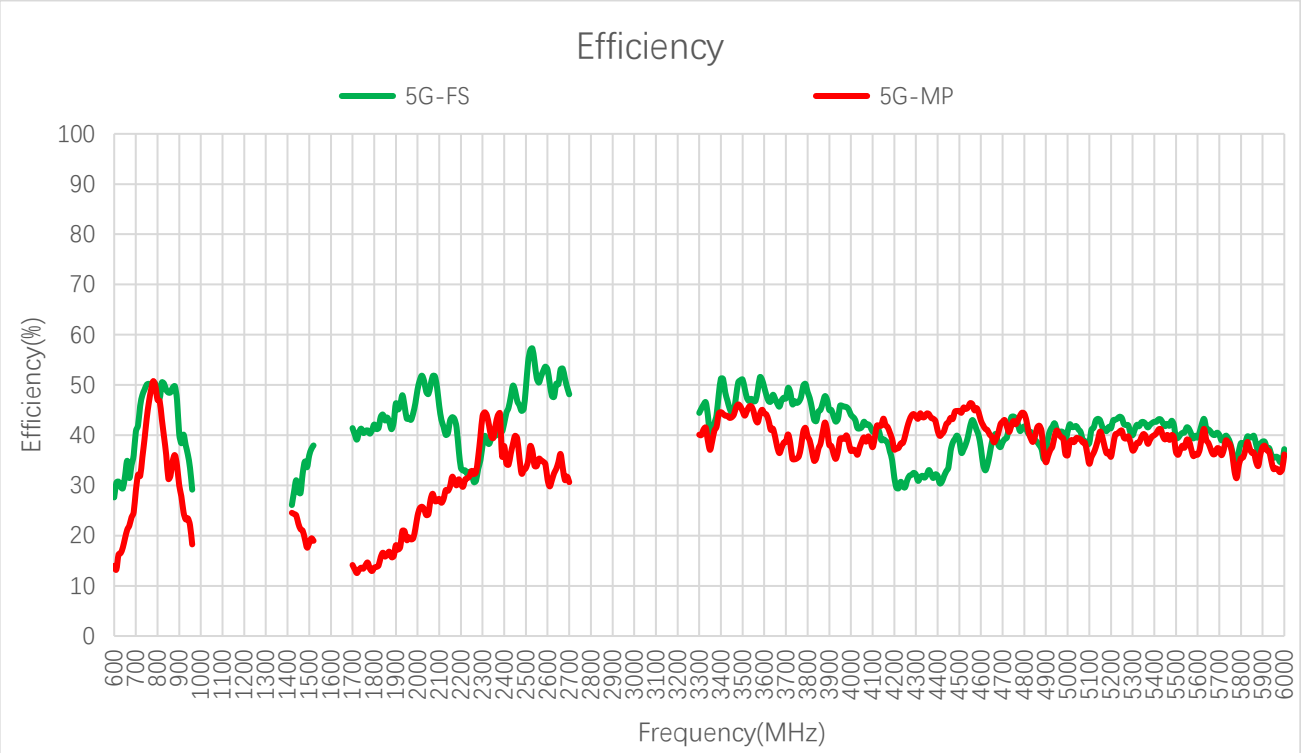


Noise Figure (dB) – GNSS

Frequency (MHz)	1176	1207	1227	1248	1268	1561	1575	1602
Noise Figure (dB)	-	-	-	-	-	-	2.04	2.43

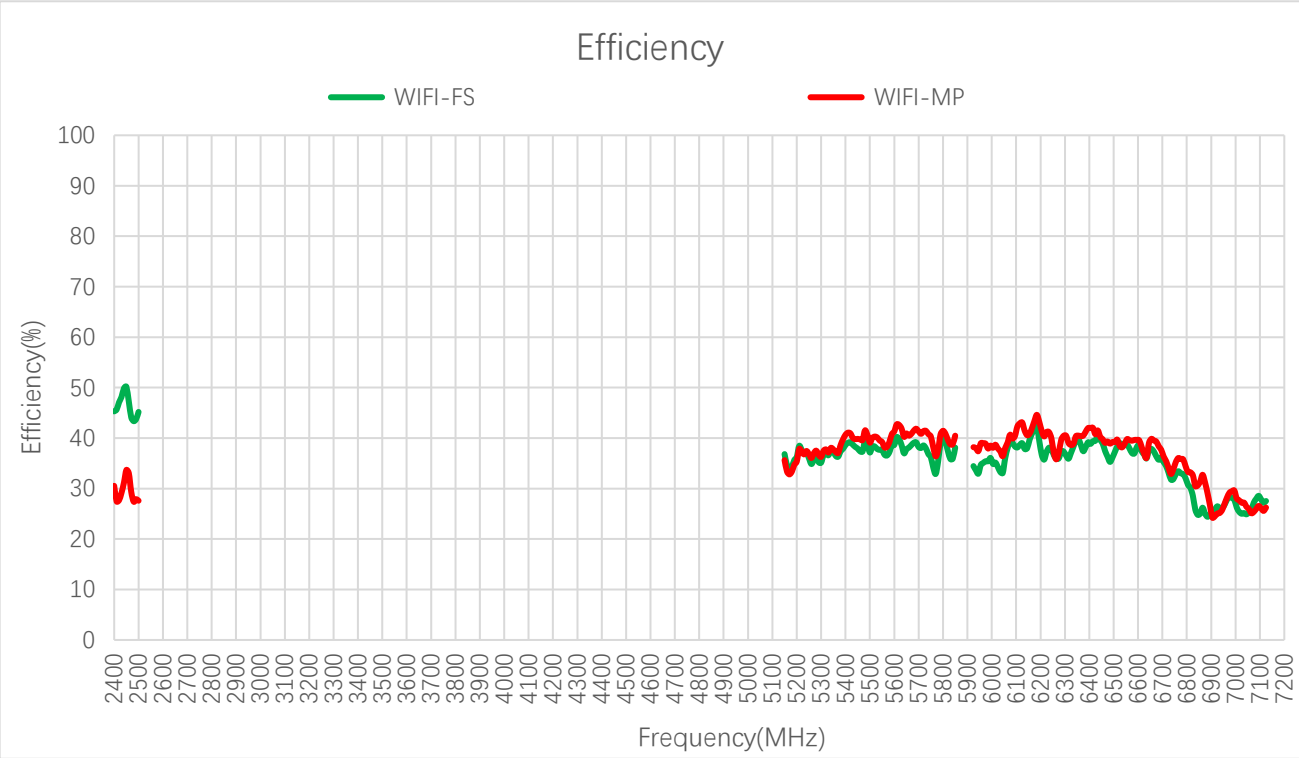
3.2. Radiation Performance Test

3.2.1. Efficiency



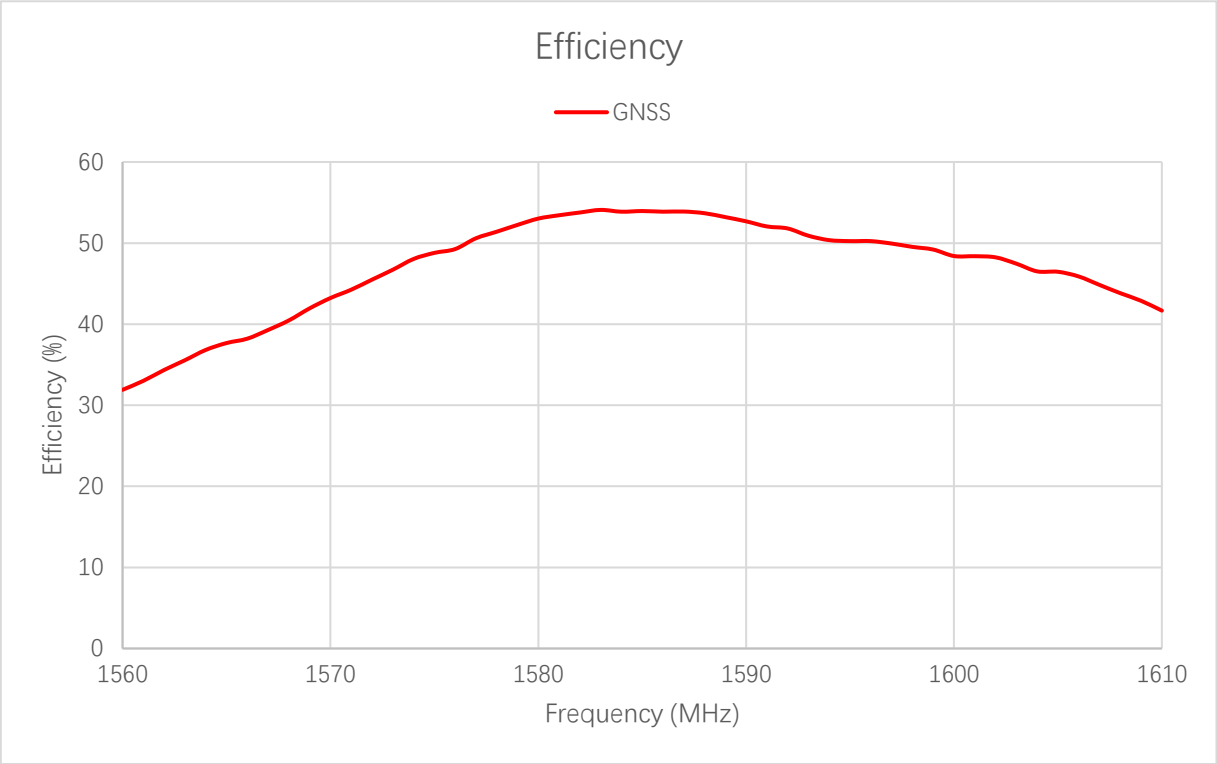
Efficiency (%) – 5G

Frequency (MHz)		600	630	710	830	900	960	1440	1710	1740	1880
Efficiency (%)	FS	27.6	29.7	41.9	50.2	40.2	29.1	31.0	40.2	41.3	41.2
	MP	14.0	16.5	32.1	39.7	30.0	18.2	24.0	13.3	13.6	15.7
Frequency (MHz)		**1950**	**2140**	**2350**	**2450**	**2600**	**2690**	**4700**	**5000**	**5500**	**6000**
Efficiency (%)	FS	43.3	40.4	40.3	48.9	53.0	49.6	38.6	40.7	39.4	37.2
	MP	19.1	28.9	39.5	39.9	31.2	31.8	42.7	36.0	36.7	36.2



Efficiency (%) – Wi-Fi

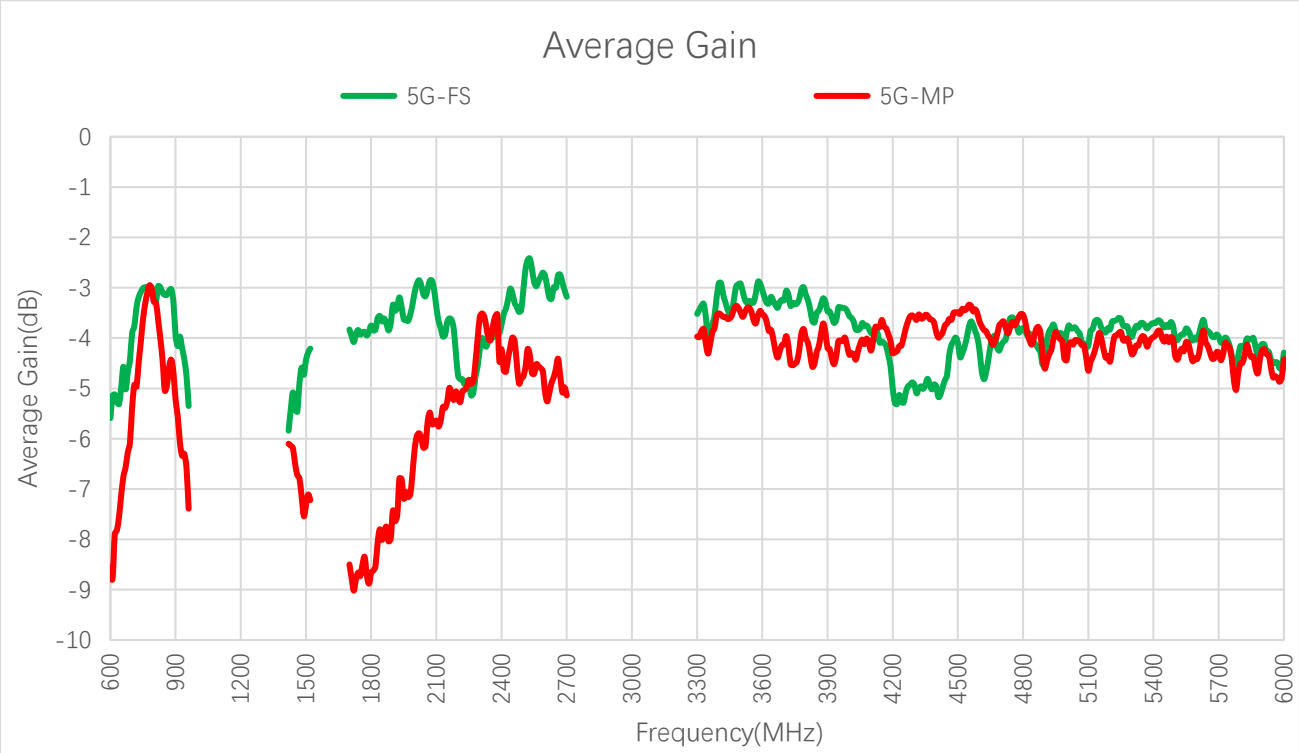
Frequency (MHz)		2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Efficiency (%)	FS	45.3	50.2	45.2	36.8	37.1	38.1	34.5	37.1	33.2	27.5
	MP	30.5	33.7	27.8	35.6	39.1	40.5	38.2	38.6	34.1	26.2



Efficiency (%) – GNSS

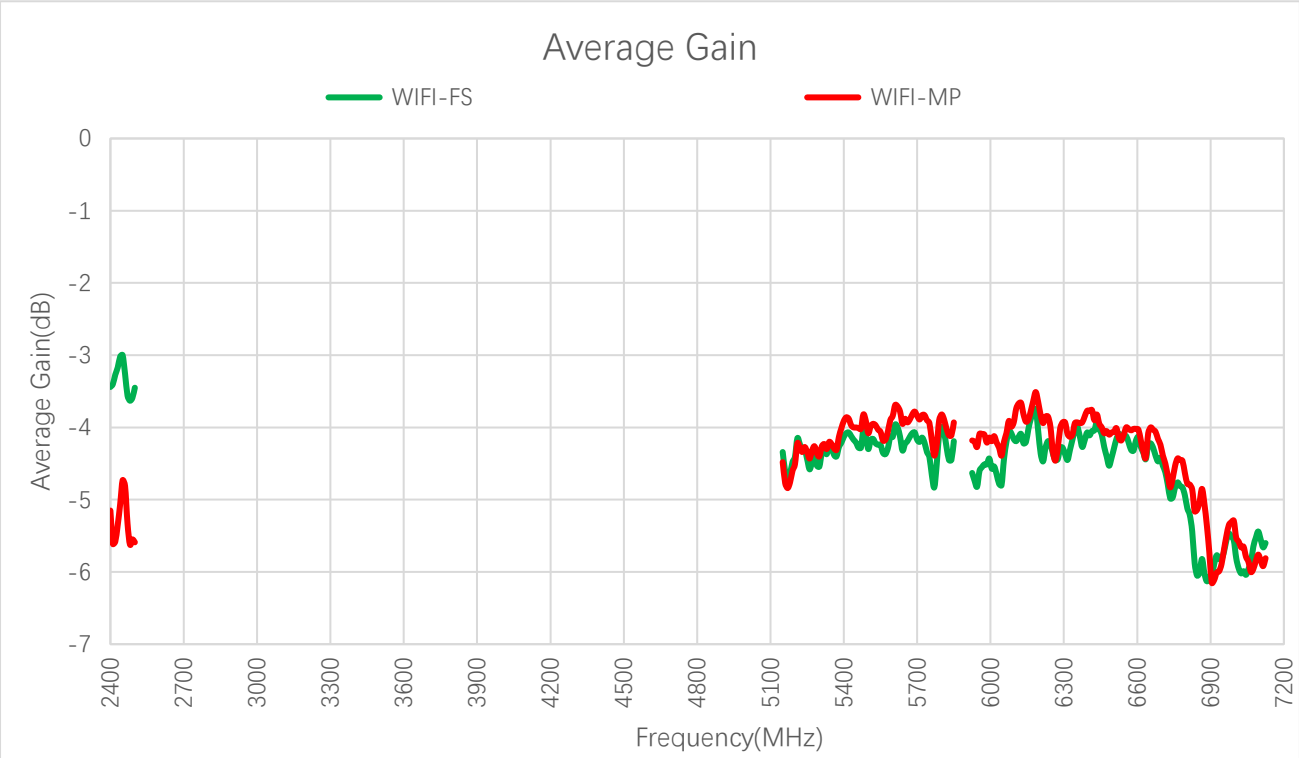
Frequency (MHz)	1176	1207	1227	1248	1268	1561	1575	1602
Efficiency (%)	-	-	-	-	-	-	48.79	48.24

3.2.2. Average Gain



Average Gain (dB) – 5G

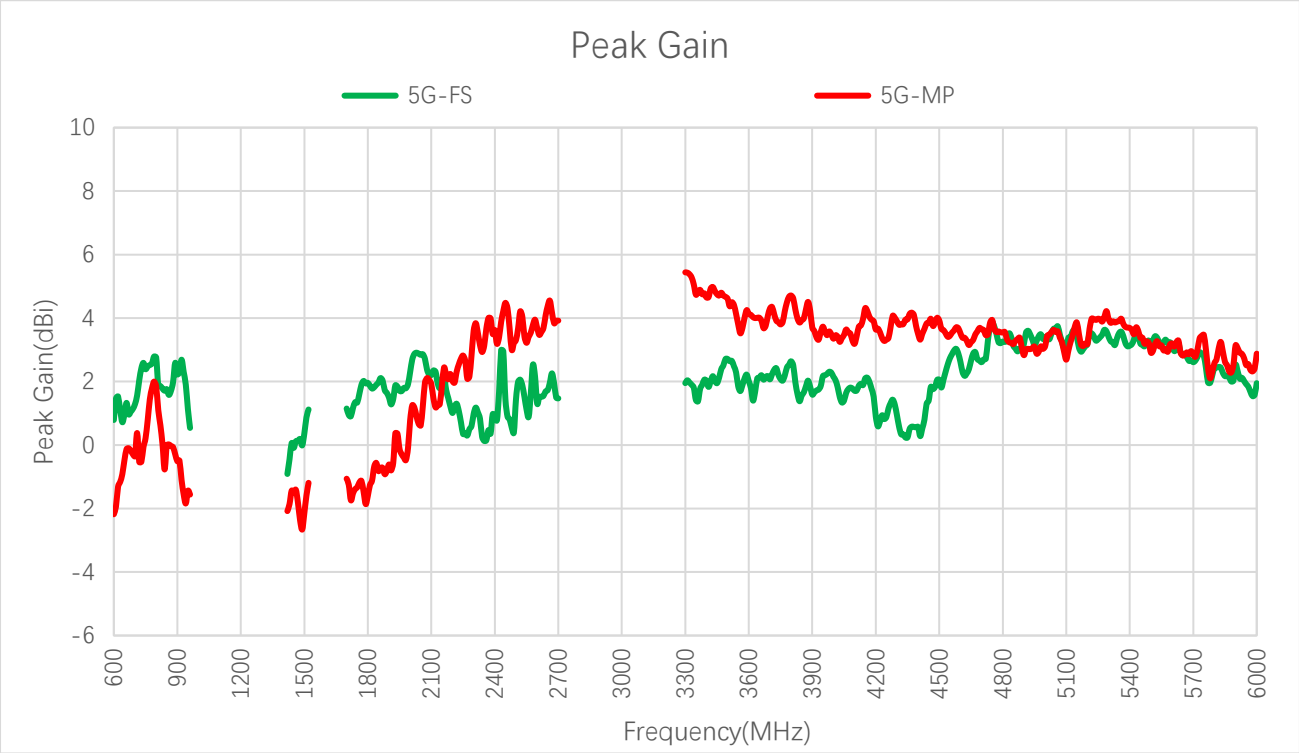
Frequency (MHz)		600	630	710	830	900	960	1440	1710	1740	1880
Average Gain (dB)	FS	-5.6	-5.3	-3.8	-3.0	-4.0	-5.4	-5.1	-4.0	-3.8	-3.8
	MP	-8.5	-7.8	-4.9	-4.0	-5.2	-7.4	-6.2	-8.7	-8.7	-8.0
Frequency (MHz)		**1950**	**2140**	**2350**	**2450**	**2600**	**2690**	**4700**	**5000**	**5500**	**6000**
Average Gain (dB)	FS	-3.6	-3.9	-4.0	-3.1	-2.8	-3.1	-4.1	-3.9	-4.0	-4.3
	MP	-7.2	-5.4	-4.0	-4.0	-5.1	-5.0	-3.7	-4.4	-4.4	-4.4



Average Gain (dB) – Wi-Fi

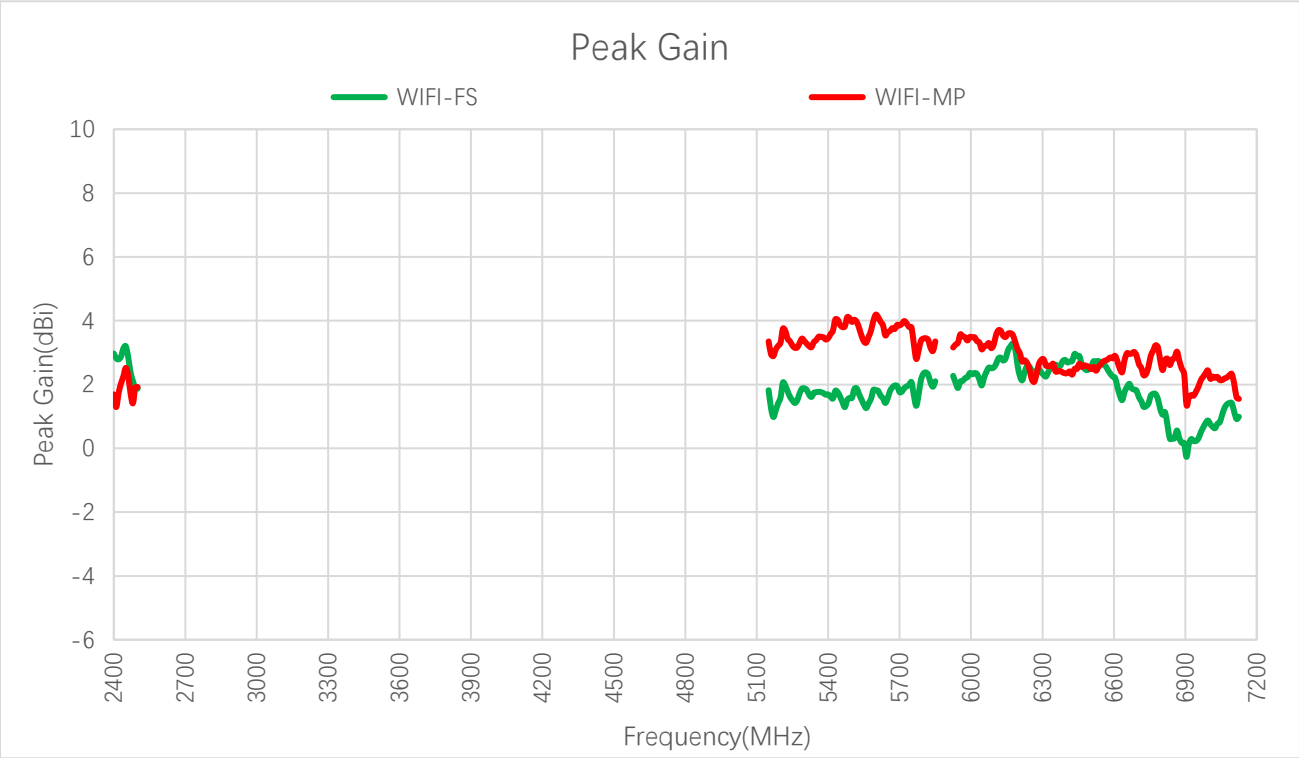
Frequency (MHz)		2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Average Gain (dB)	FS	-3.4	-3	-3.5	-4.3	-4.3	-4.2	-4.6	-4.3	-4.8	-5.6
	MP	-5.1	-4.7	-5.6	-4.5	-4.1	-3.9	-4.2	-4.1	-4.7	-5.8

3.2.3. Peak Gain



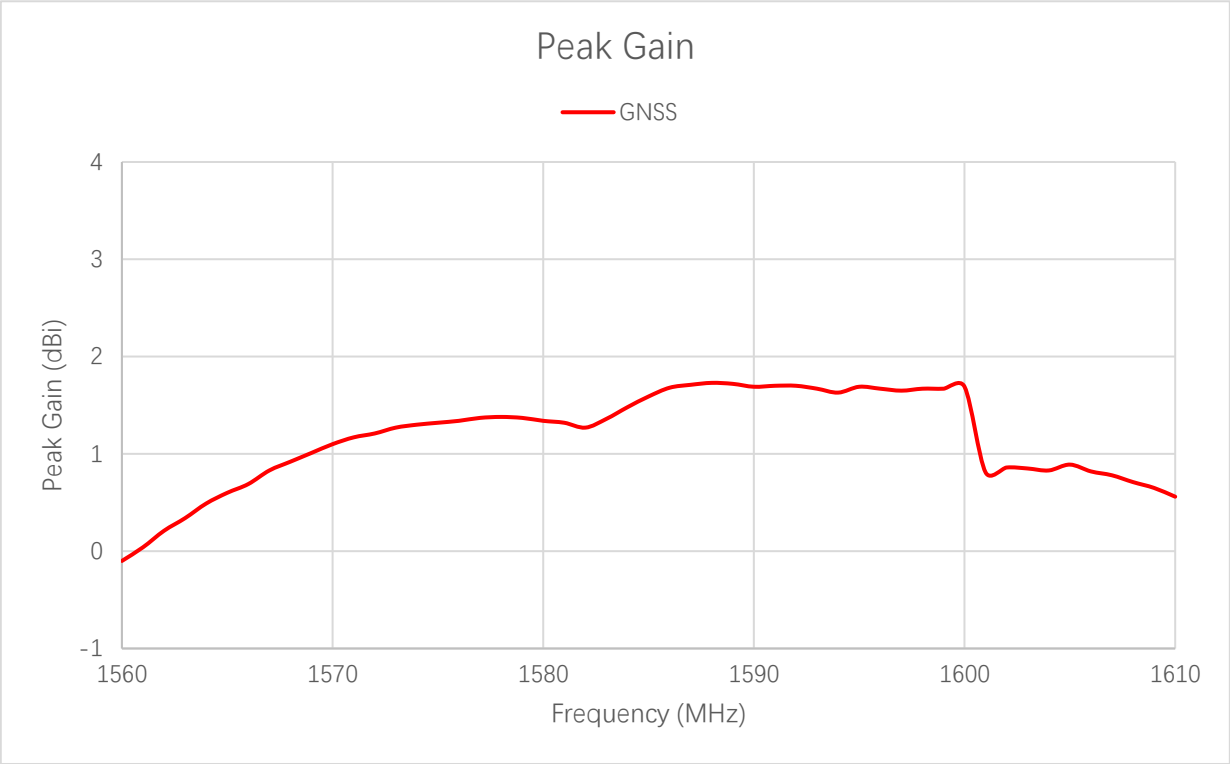
Peak Gain (dBi) – 5G

Frequency (MHz)		600	630	710	830	900	960	1440	1710	1740	1880
Peak Gain (dBi)	FS	0.8	1.1	1.6	1.8	2.2	0.5	0	1.0	1.4	1.7
	MP	-2.2	-1.2	0.4	0	-0.5	-1.6	-1.4	-1.3	-1.4	-0.9
Frequency (MHz)		**1950**	**2140**	**2350**	**2450**	**2600**	**2690**	**4700**	**5000**	**5500**	**6000**
Peak Gain (dBi)	FS	1.7	1.8	0.1	1.5	1.3	1.5	2.6	3.4	3.1	2.0
	MP	-0.1	1.3	3.1	4.5	3.7	3.9	3.7	3.1	2.9	2.9



Peak Gain (dBi) – Wi-Fi

Frequency (MHz)		2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Peak Gain (dBi)	FS	3.0	3.2	1.9	1.8	1.6	2.1	2.3	2.4	1.3	1.0
	MP	1.7	2.5	1.9	3.4	4.0	3.4	3.2	2.6	2.3	1.6



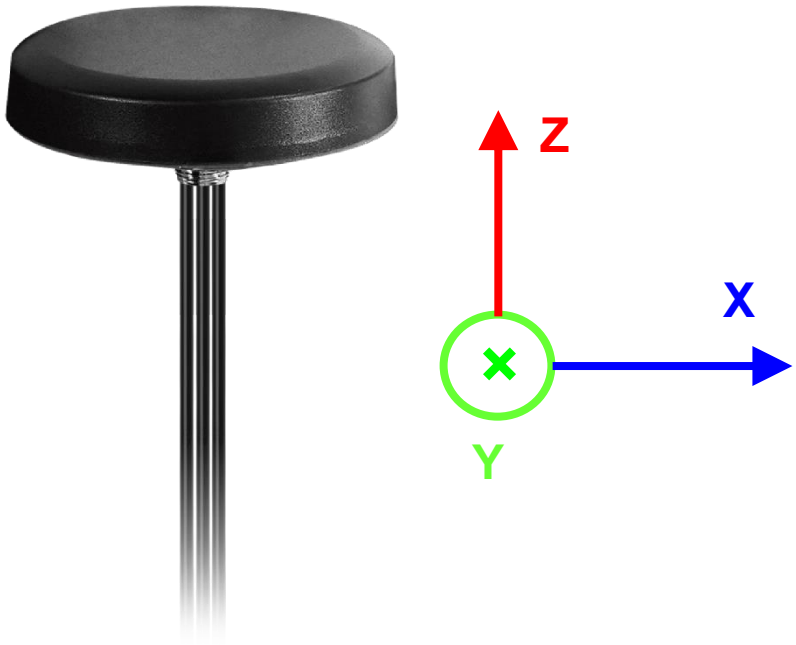
Peak Gain (dBi) – GNSS

Frequency (MHz)	1176	1207	1227	1248	1268	1561	1575	1602
Peak Gain (dBi)	-	-	-	-	-	-	1.32	0.86

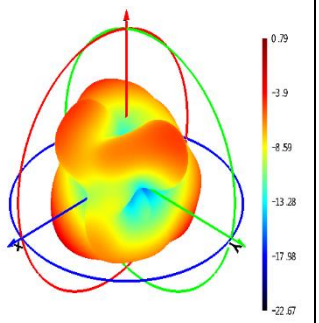
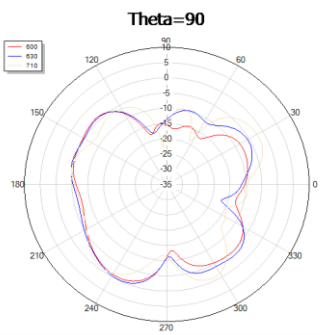
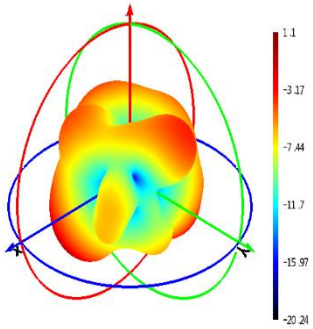
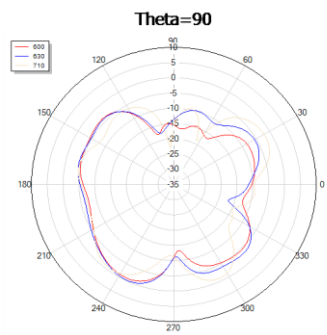
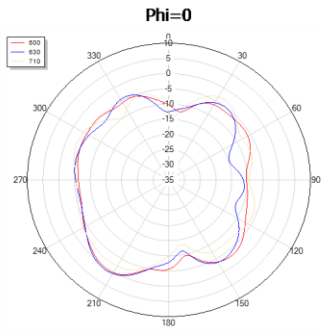
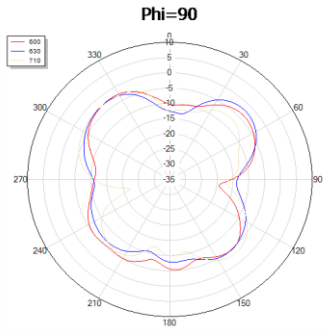
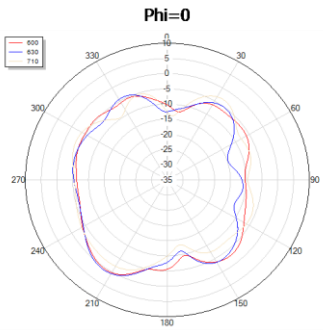
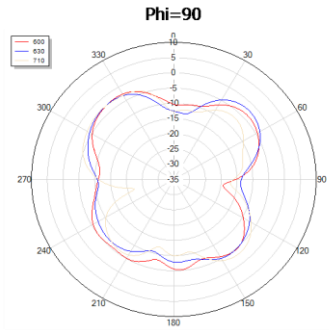
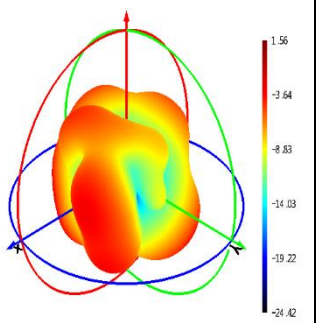
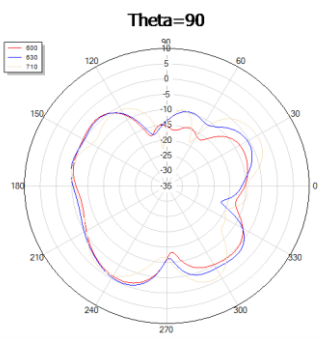
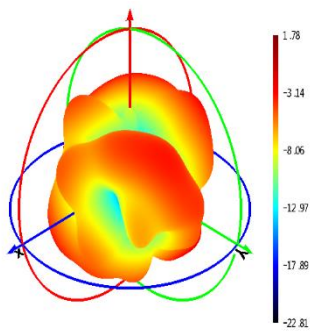
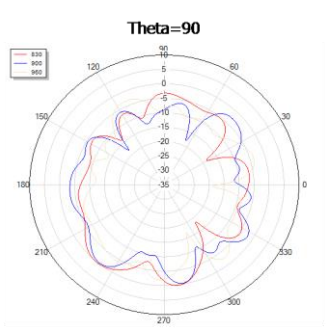
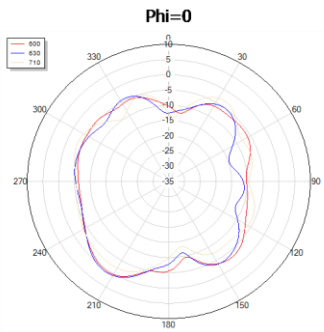
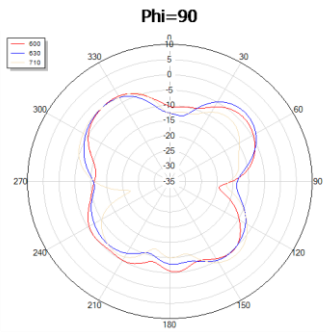
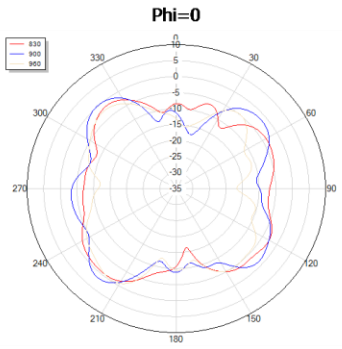
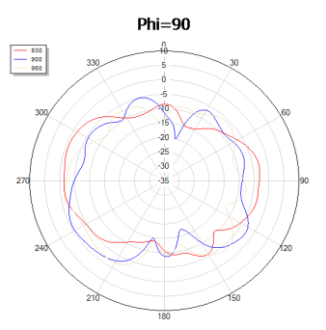
3.2.4. 3D & 2D Radiation Pattern

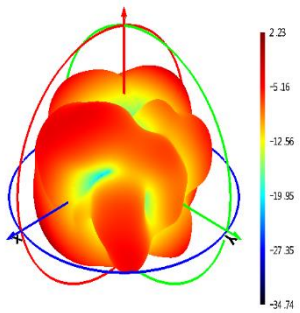
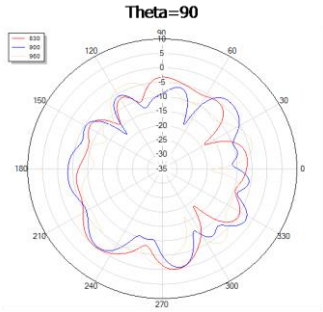
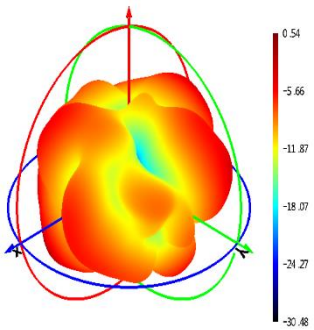
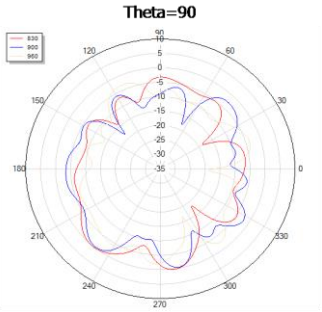
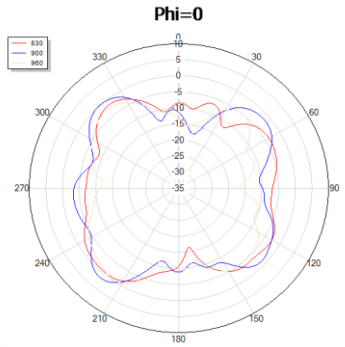
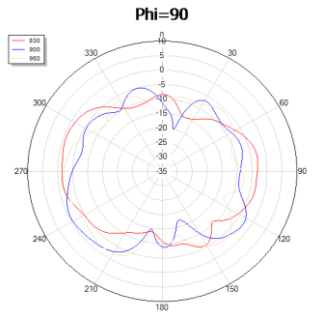
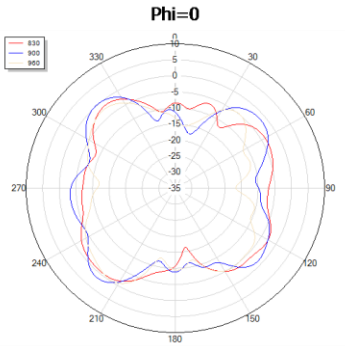
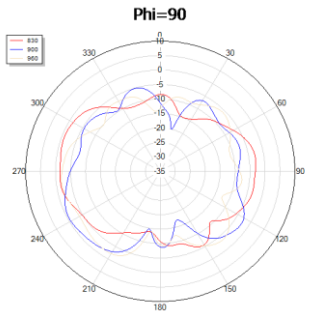
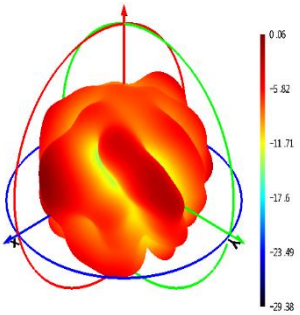
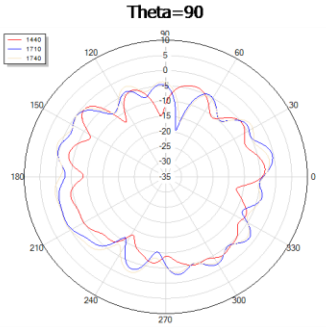
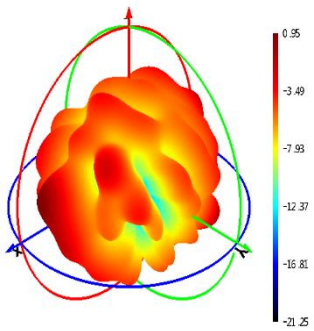
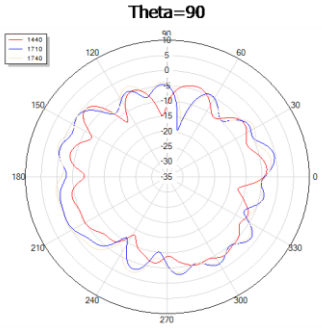
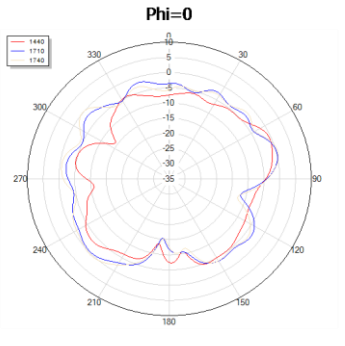
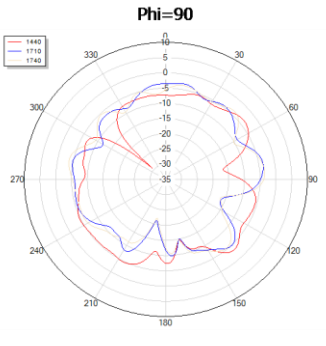
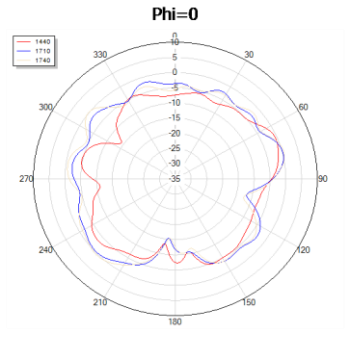
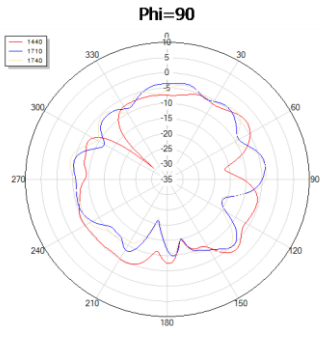
3.2.4.1. Test Condition: In Free Space

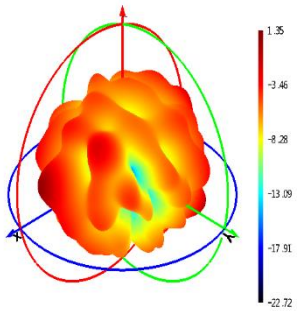
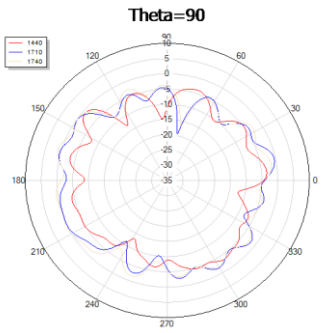
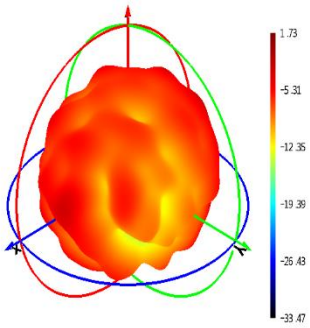
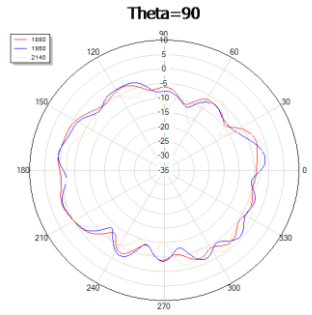
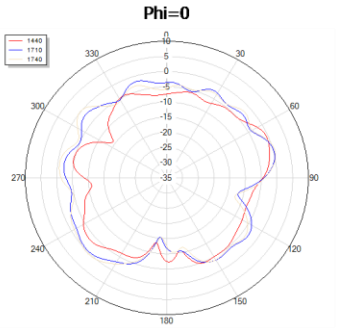
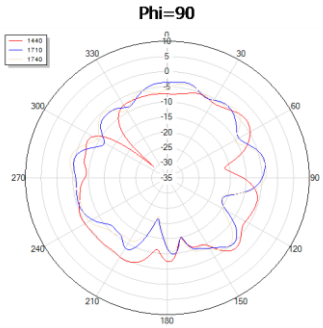
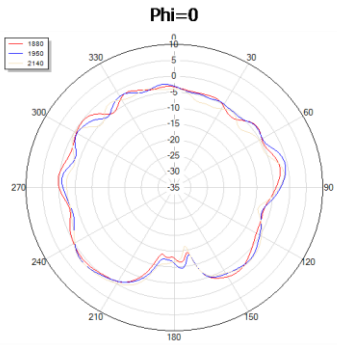
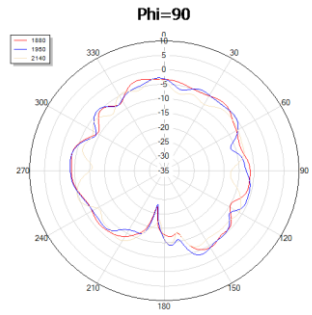
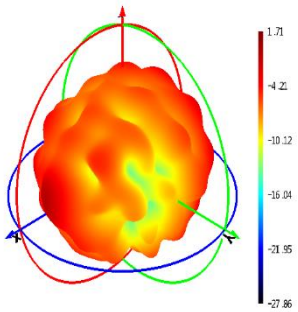
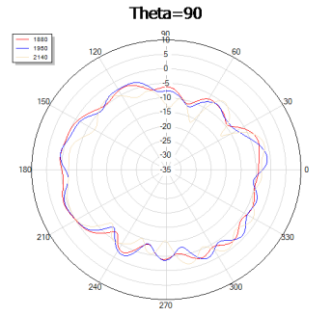
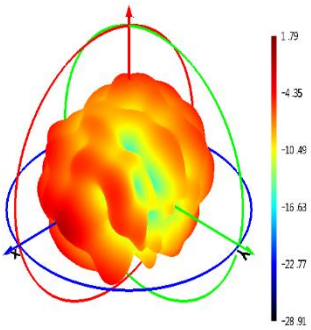
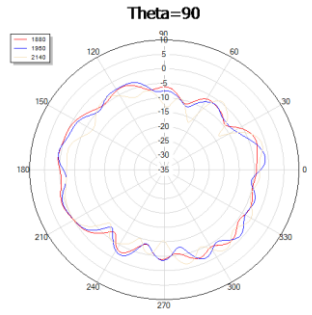
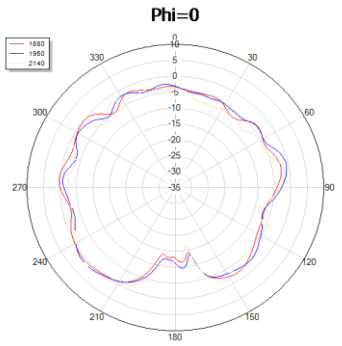
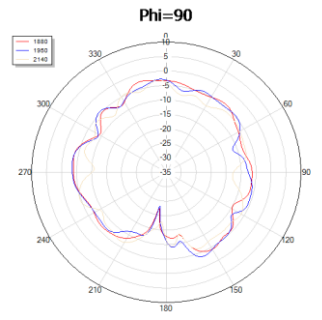
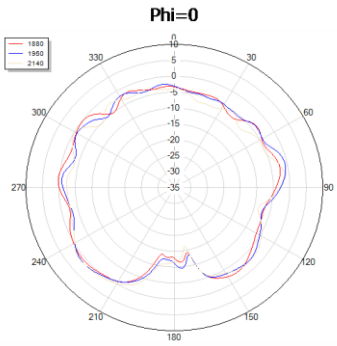
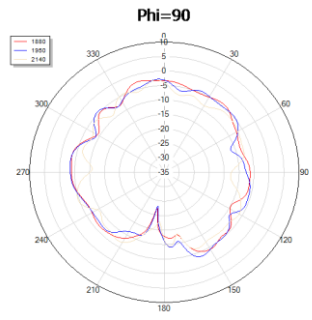
- Test Chamber: HF-S-1

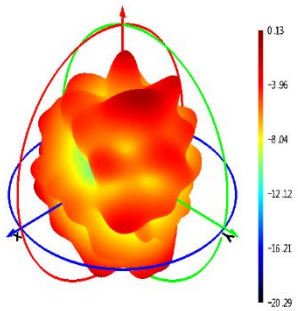
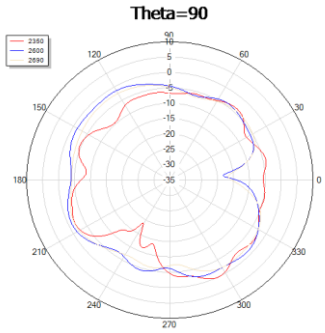
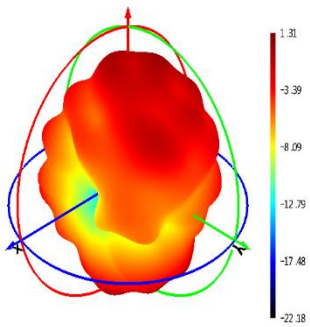
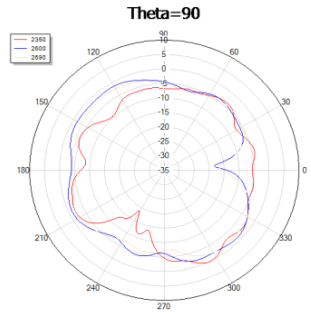
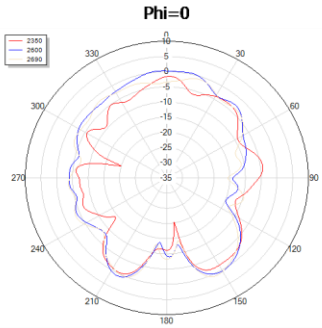
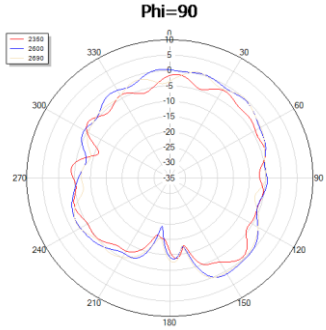
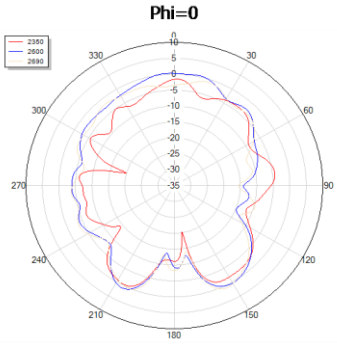
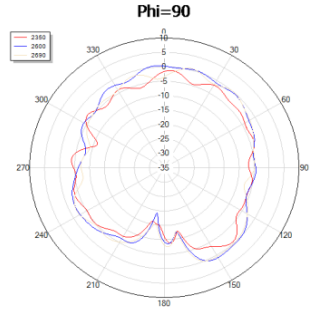
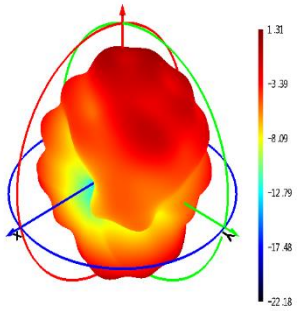
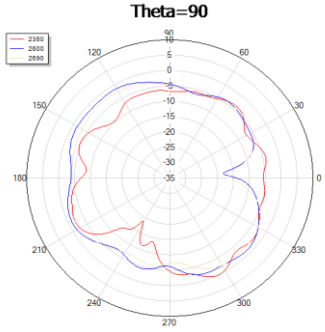
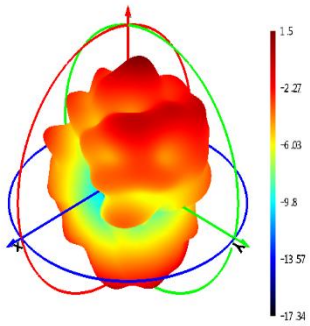
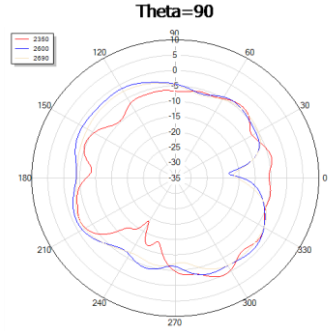
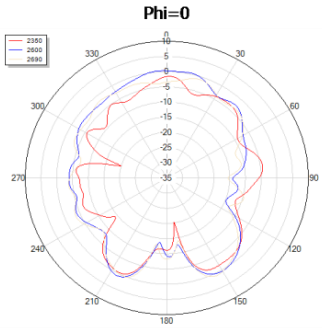
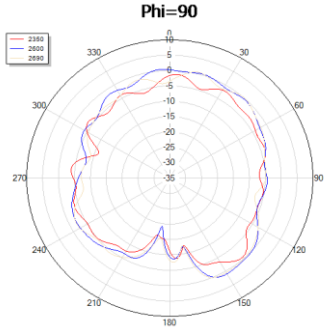
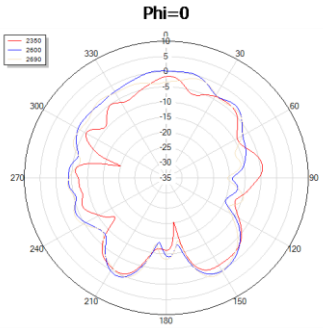
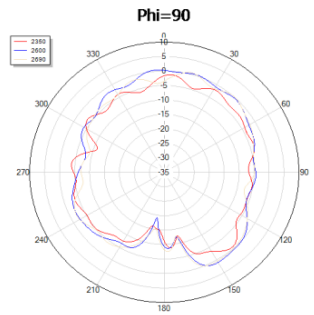


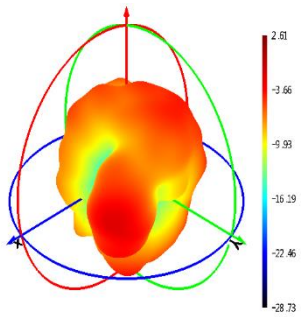
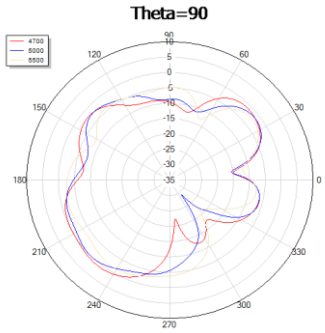
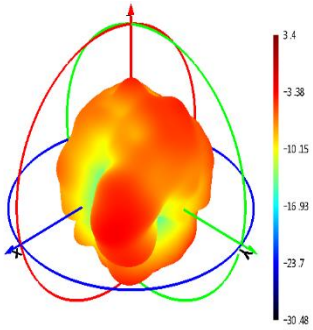
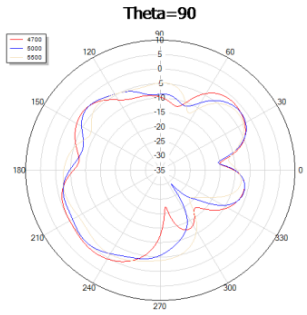
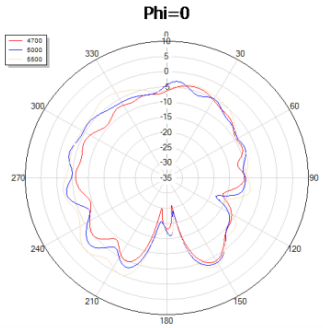
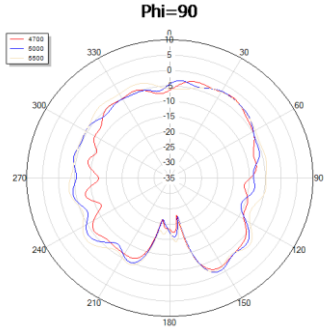
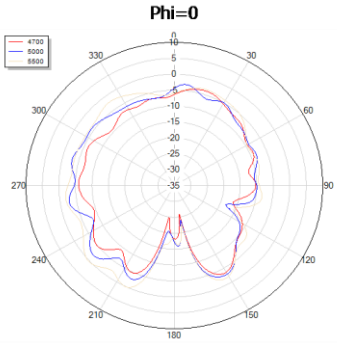
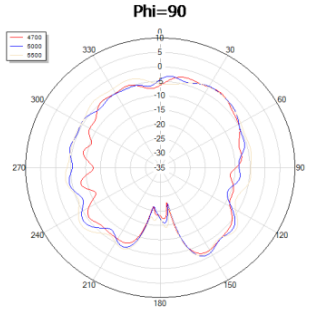
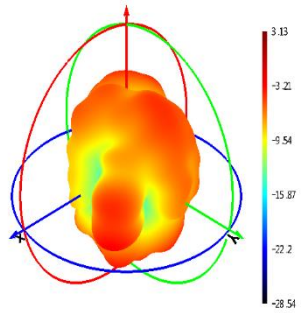
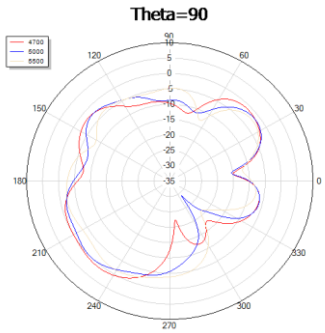
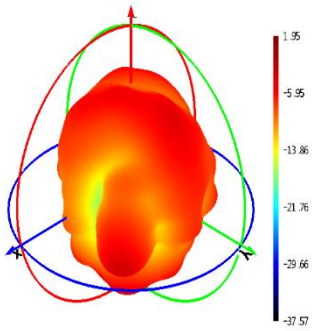
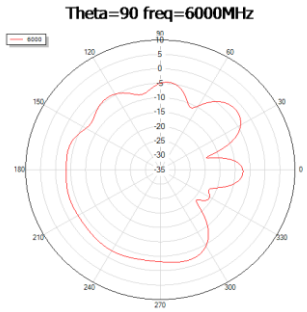
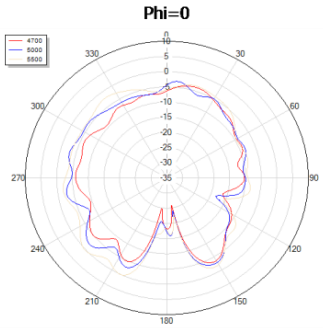
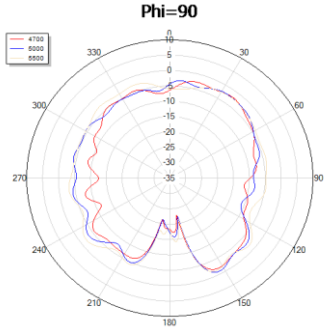
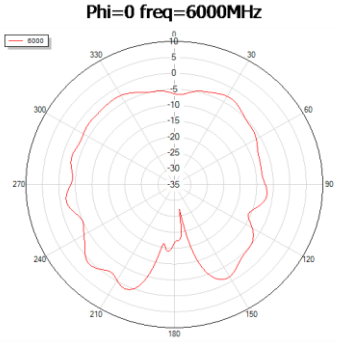
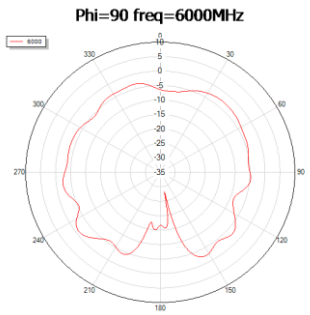
- **5G**

600 MHz		630 MHz	
			
			
710 MHz		**830 MHz**	
			
			

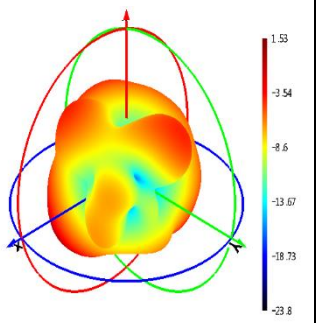
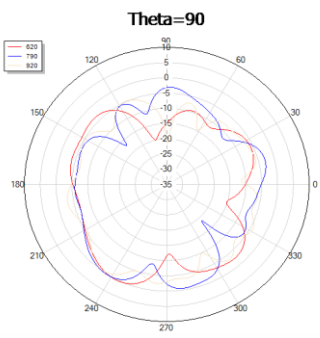
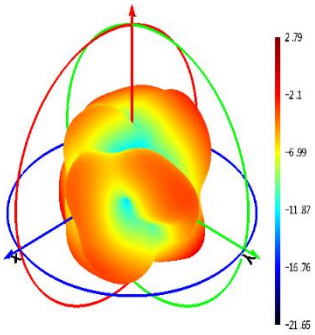
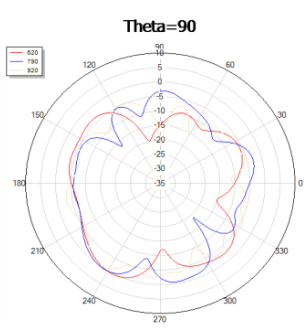
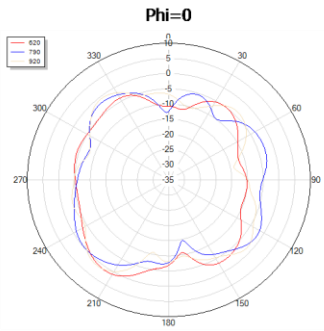
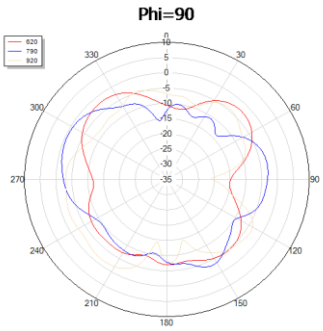
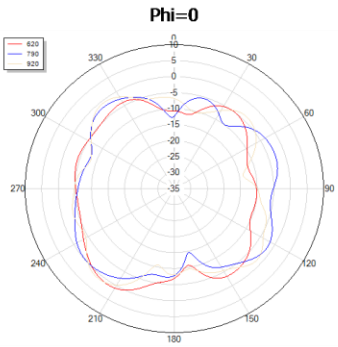
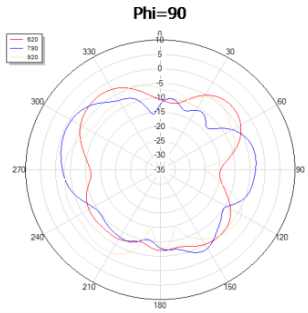
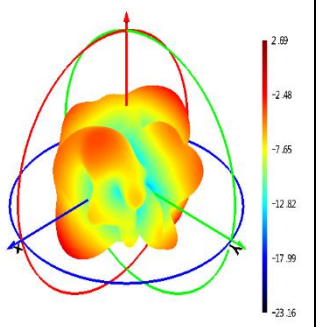
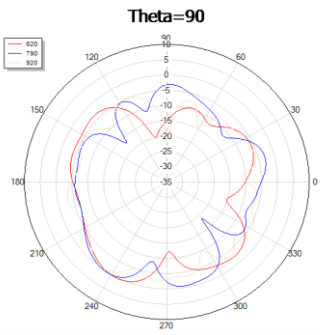
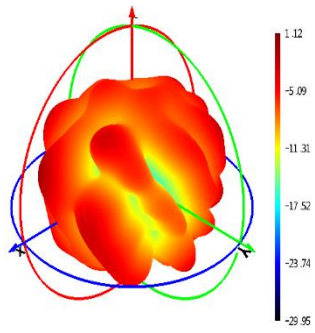
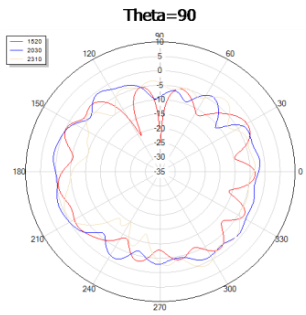
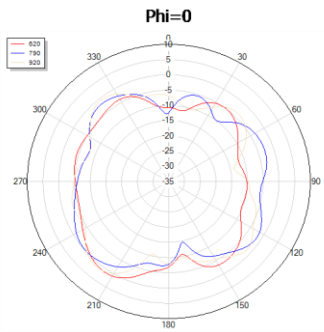
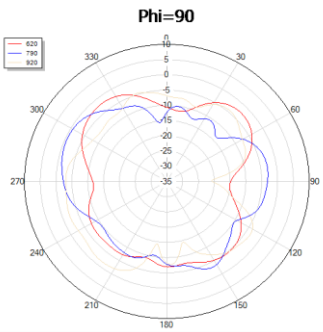
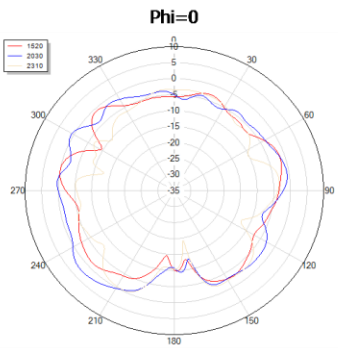
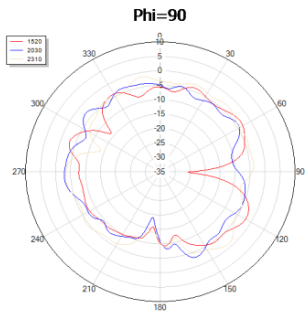
900 MHz		960 MHz	
			
			
1440 MHz		1710 MHz	
			
			

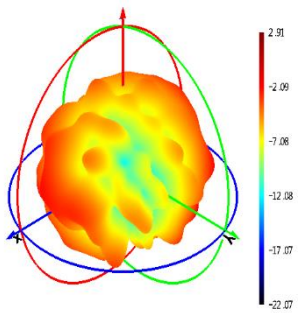
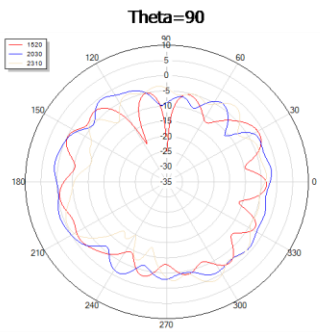
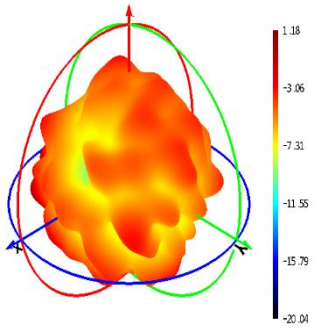
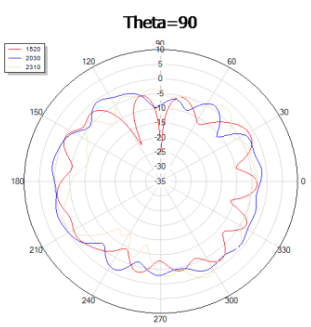
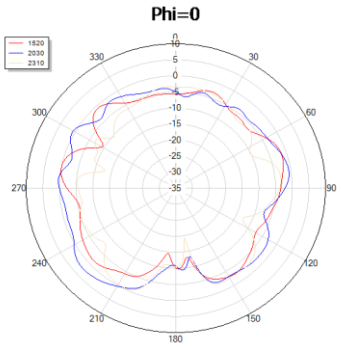
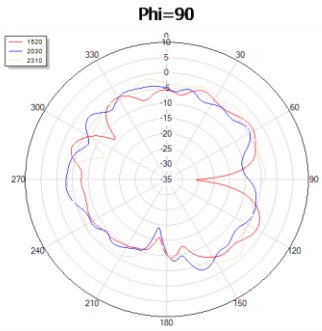
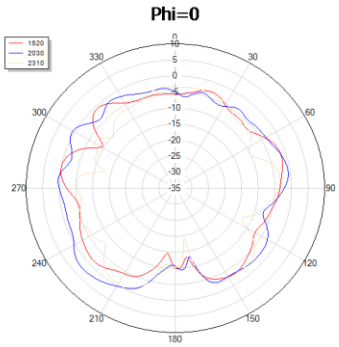
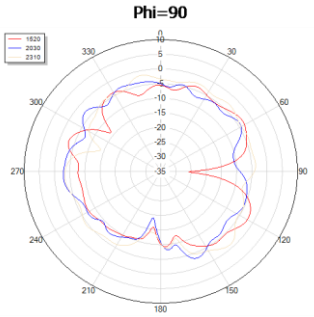
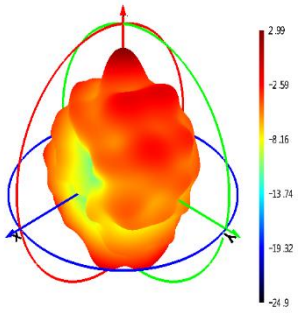
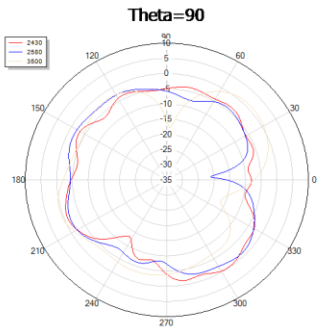
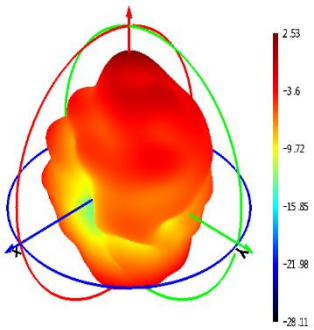
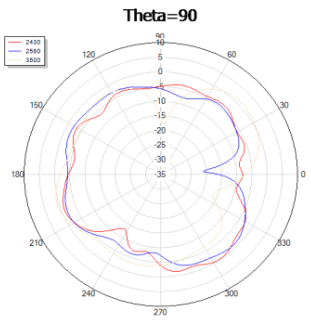
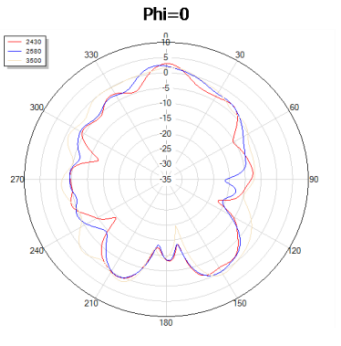
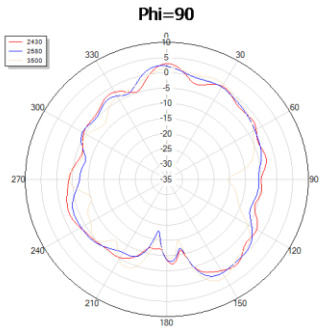
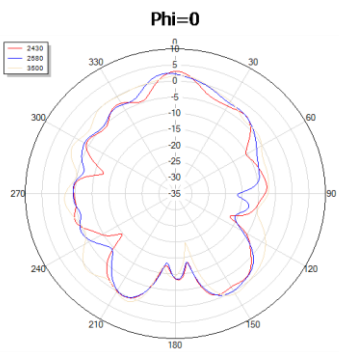
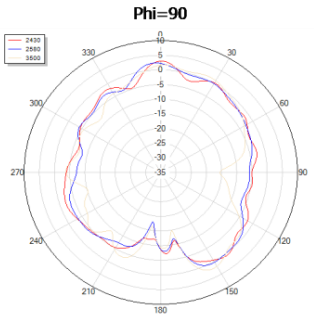
1740 MHz		1880 MHz	
			
			
1950 MHz		**2140 MHz**	
			
			

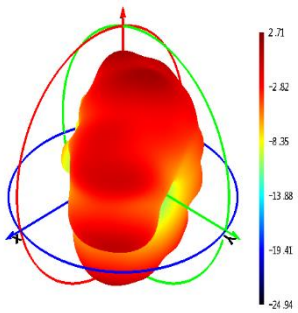
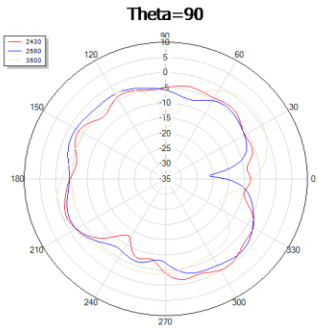
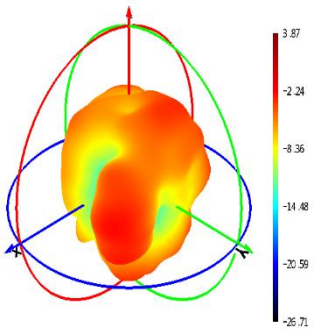
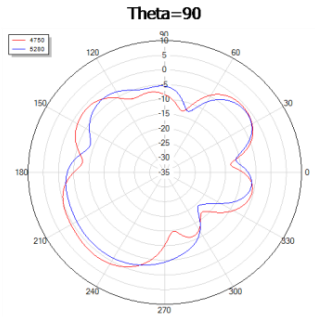
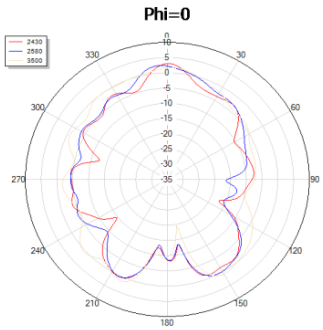
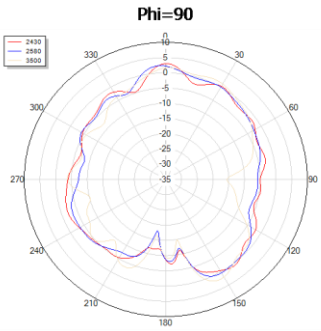
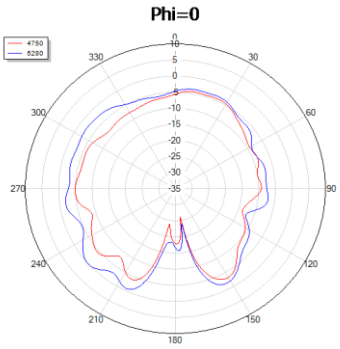
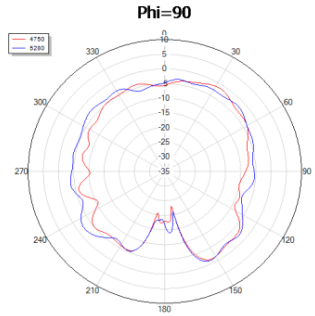
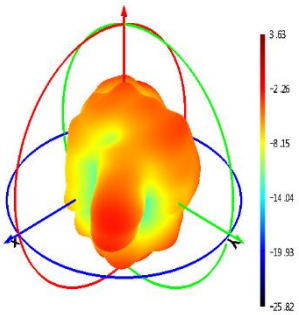
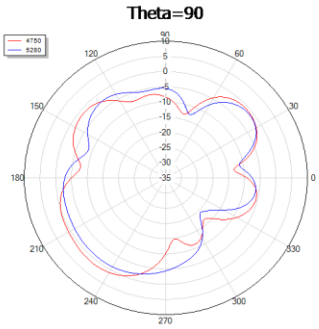
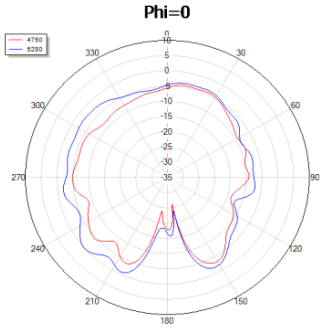
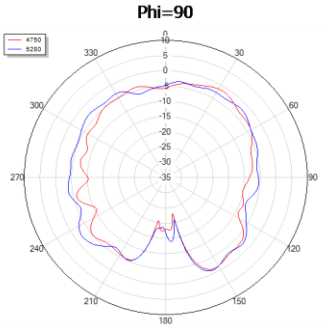
2350 MHz		2450 MHz	
			
			
2600 MHz		**2690 MHz**	
			
			

4700 MHz		5000 MHz	
			
			
5500 MHz		6000 MHz	
			
			

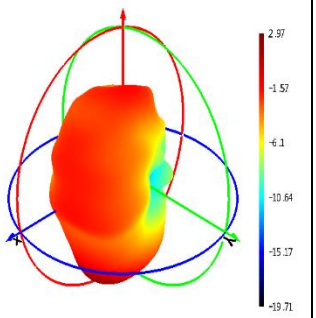
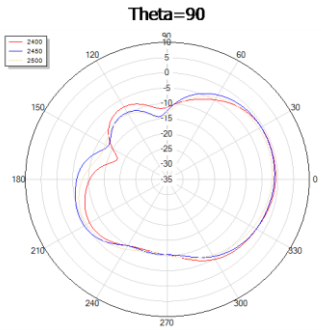
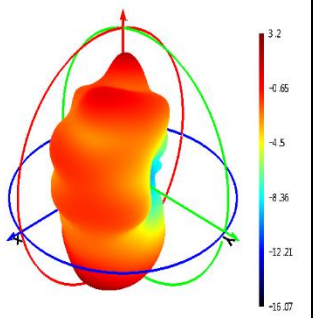
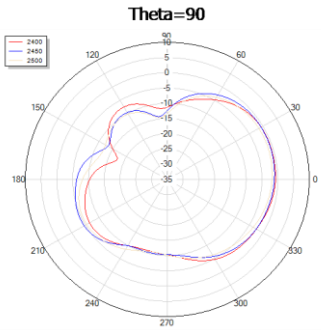
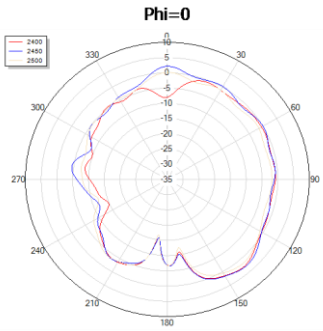
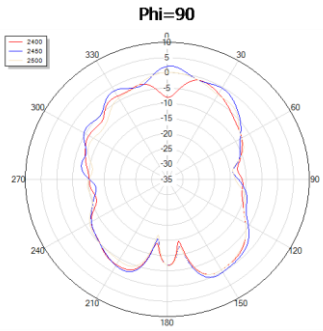
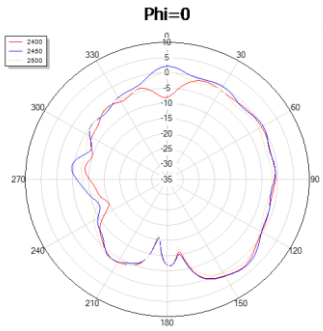
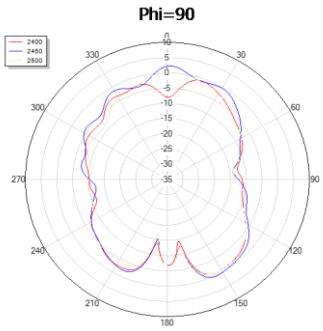
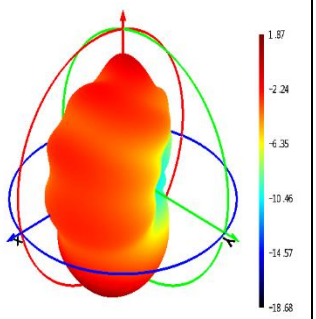
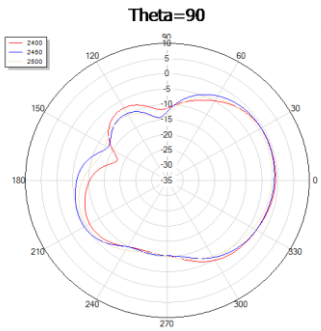
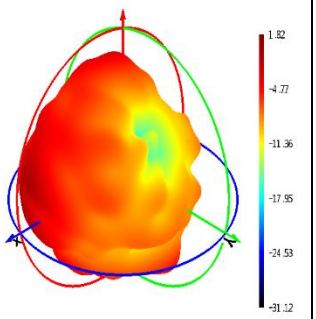
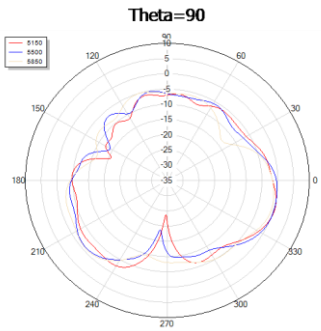
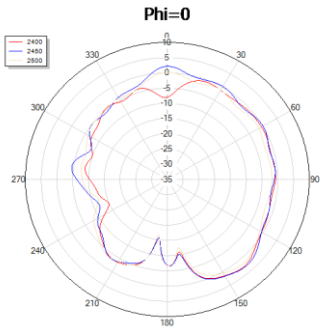
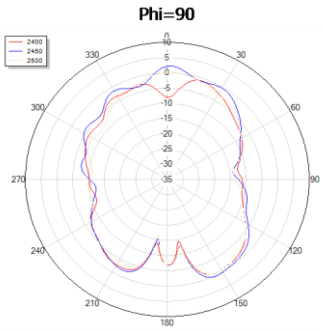
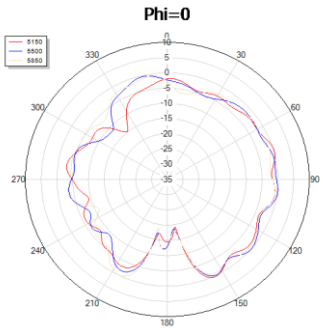
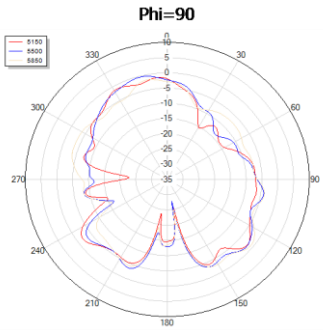
- **5G MAX Peak Gain**

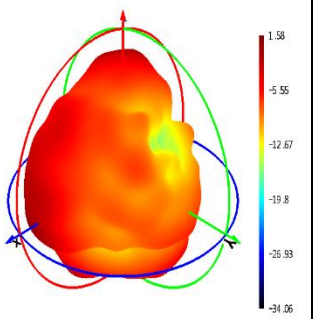
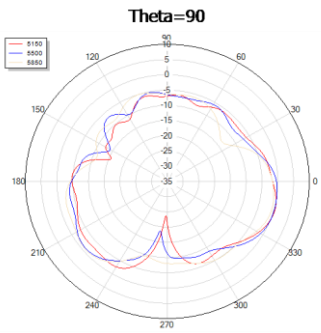
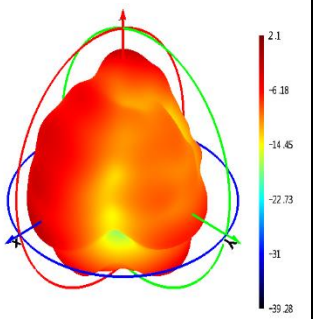
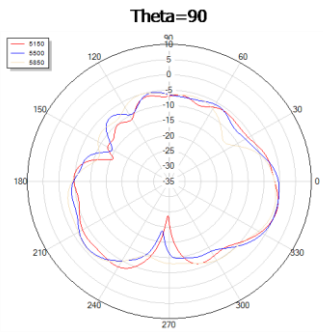
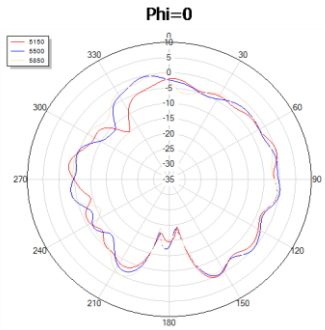
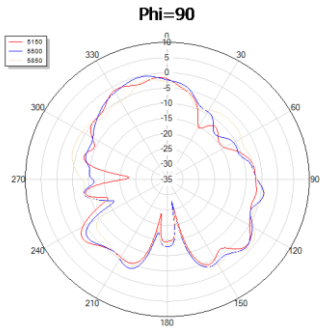
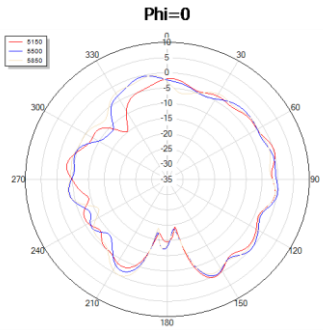
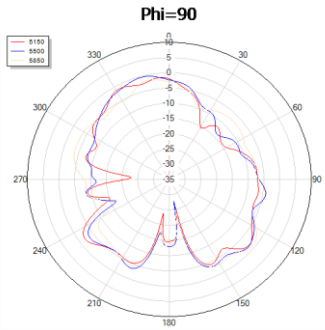
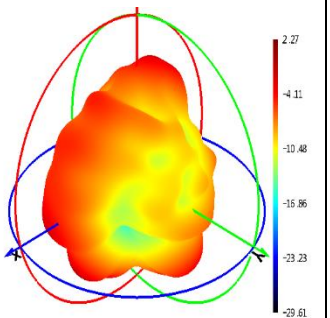
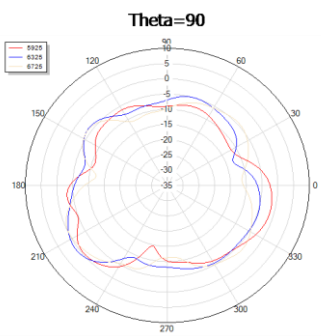
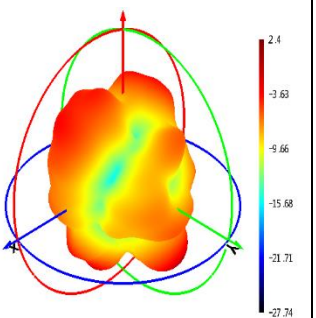
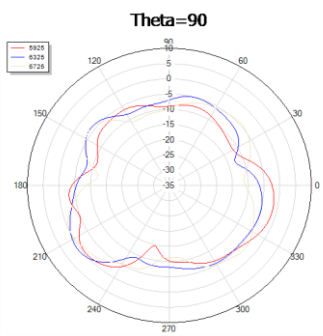
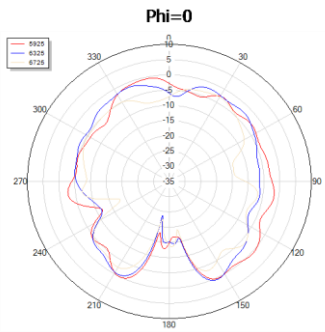
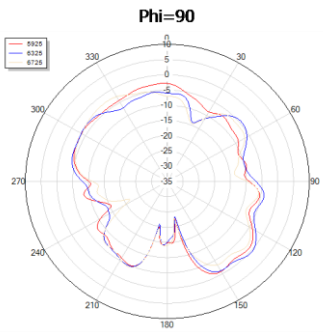
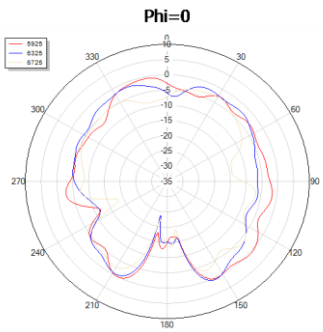
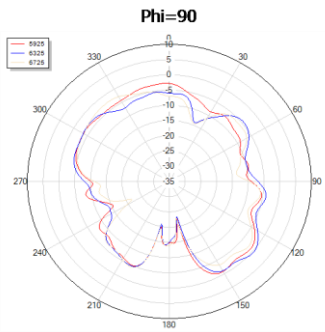
620 MHz		790 MHz	
			
			
920 MHz		**1520 MHz**	
			
			

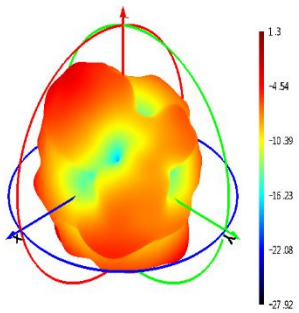
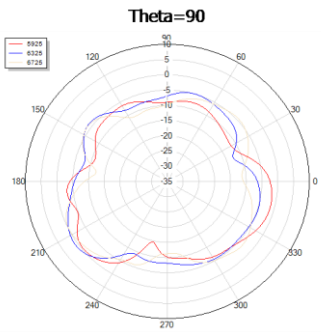
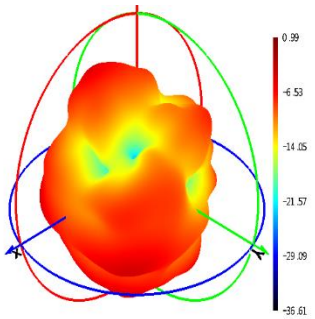
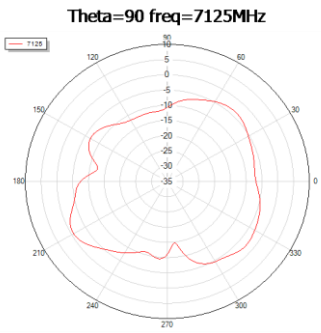
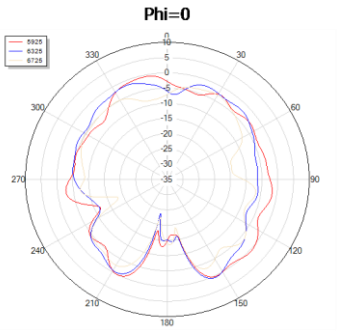
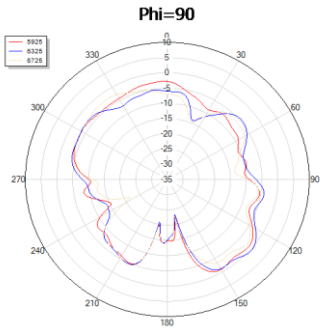
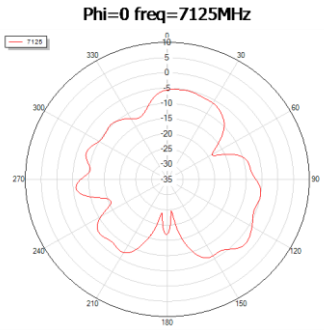
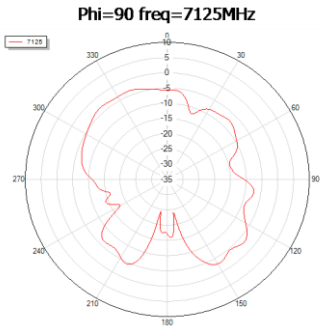
2030 MHz		2310 MHz	
			
			
2430 MHz		2580 MHz	
			
			

3500 MHz		4750 MHz	
			
			
5280 MHz			
			
			

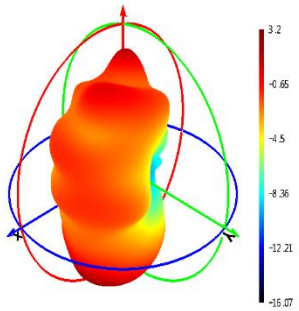
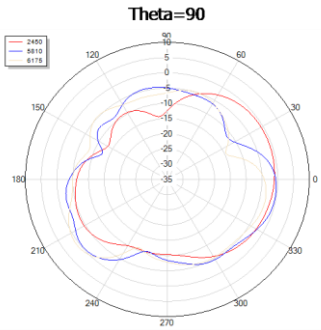
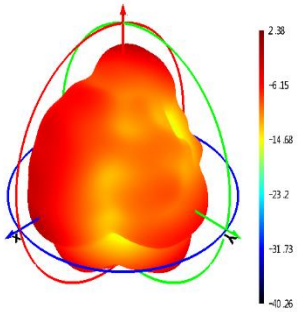
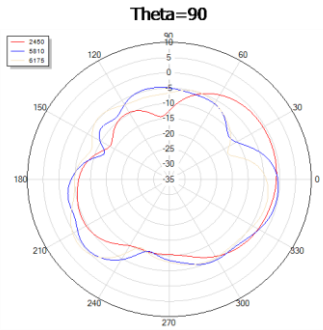
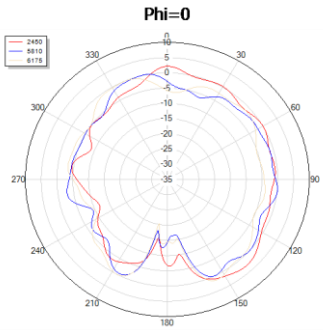
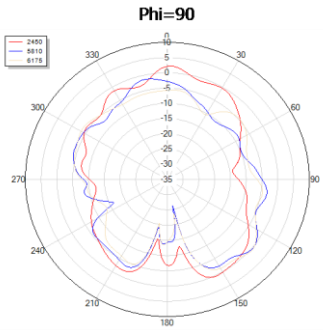
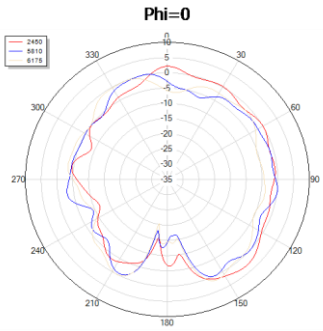
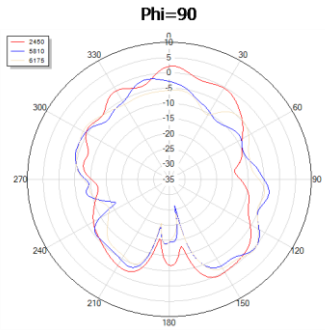
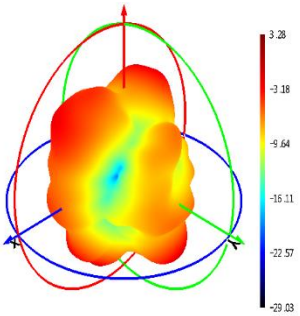
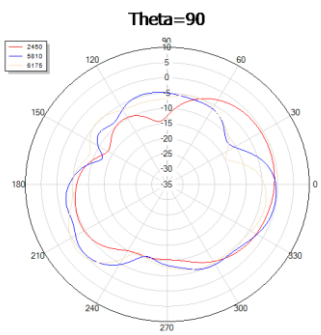
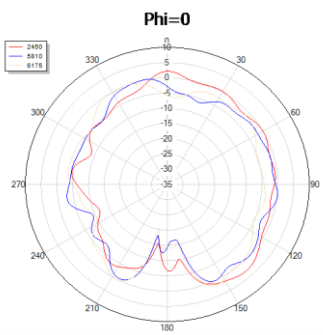
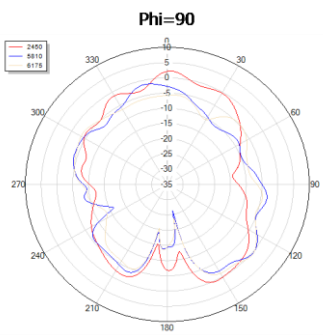
- **Wi-Fi**

2400 MHz		2450 MHz	
			
			
2500 MHz		**5150 MHz**	
			
			

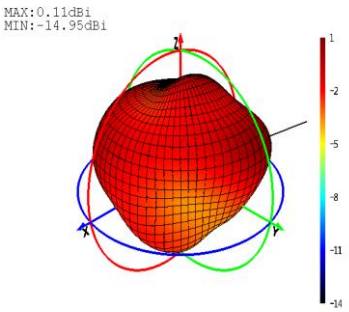
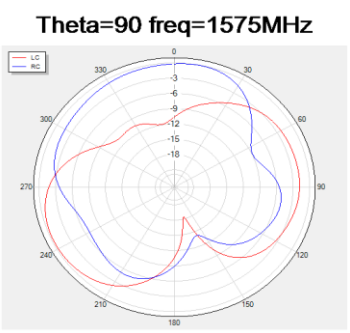
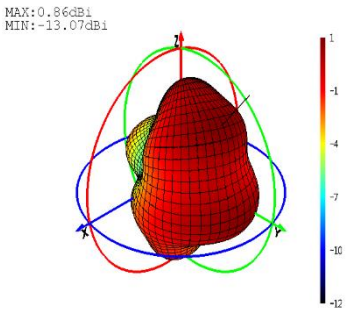
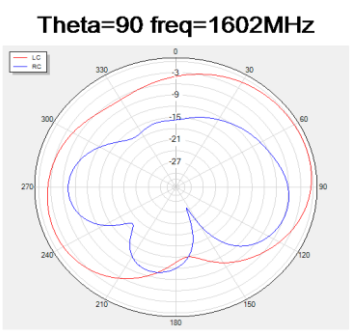
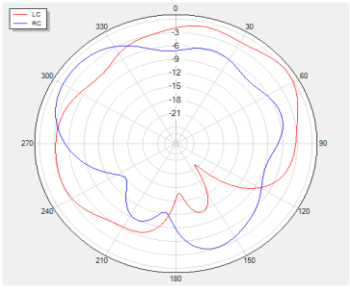
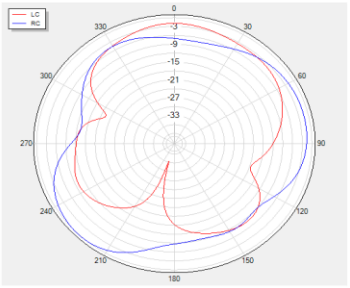
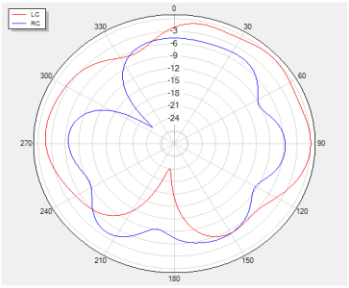
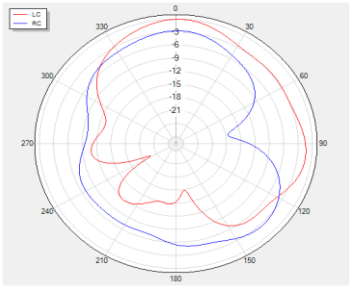
5500 MHz		5850 MHz	
			
			
5925 MHz		**6325 MHz**	
			
			

6725 MHz		7125 MHz	
			
			

- **Wi-Fi MAX Peak Gain**

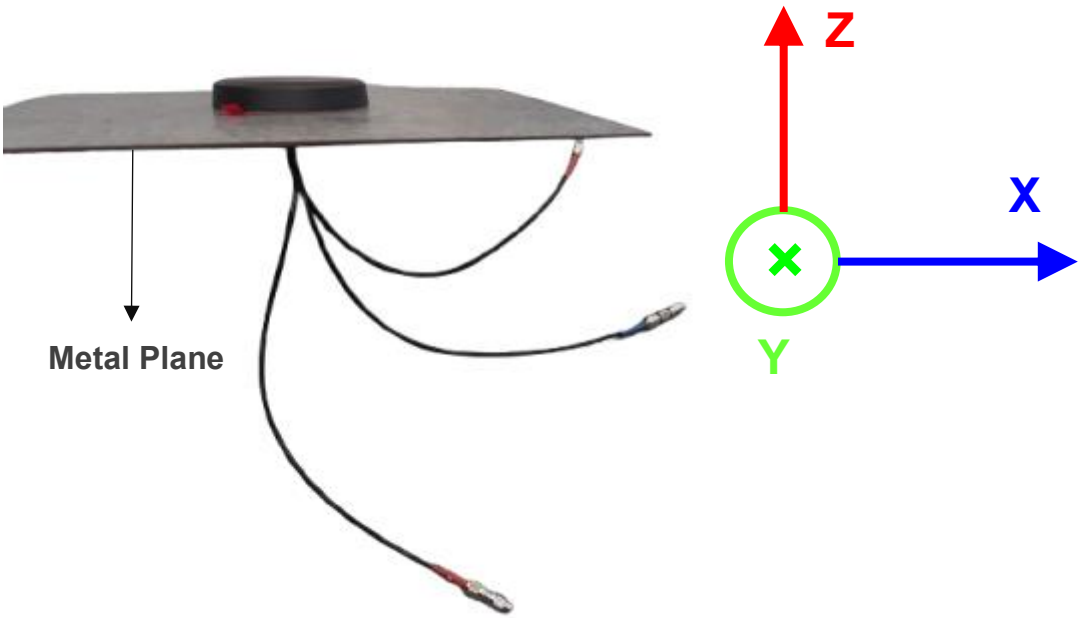
2450 MHz		5810 MHz	
			
			
6175 MHz			
			
			

- **GNSS**

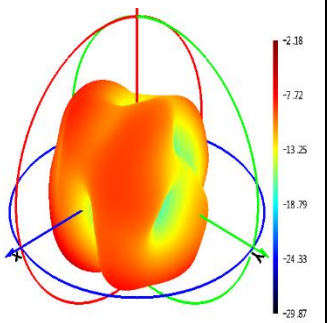
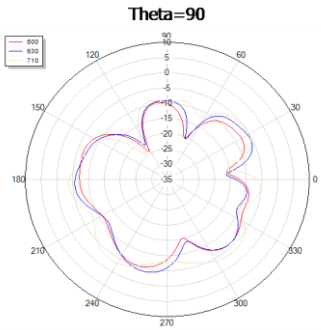
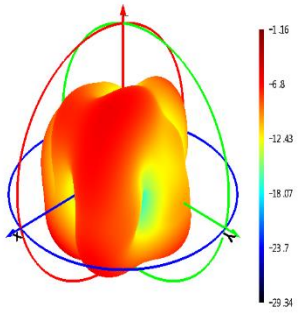
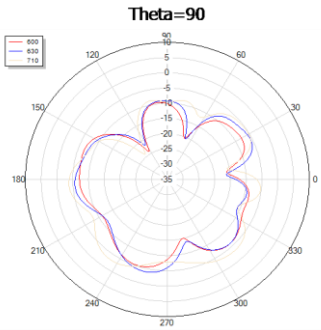
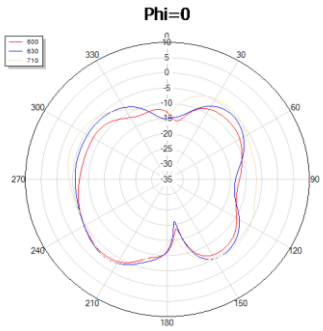
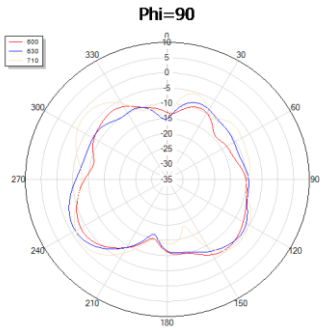
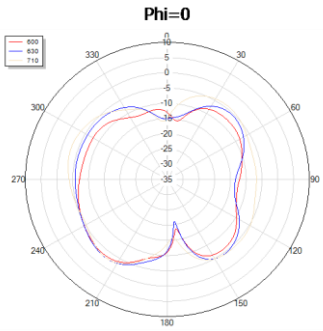
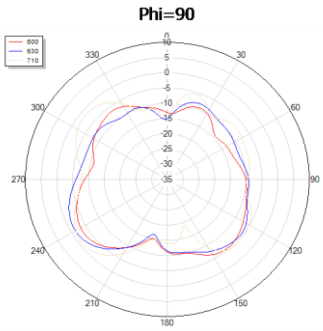
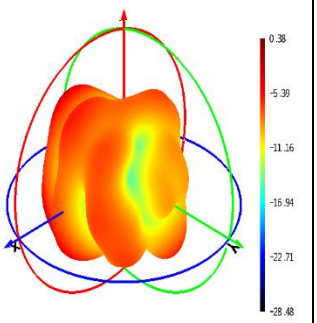
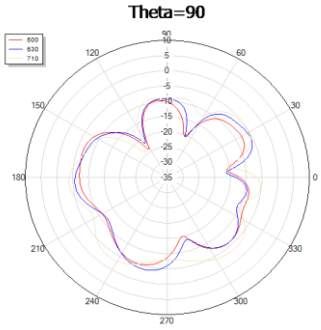
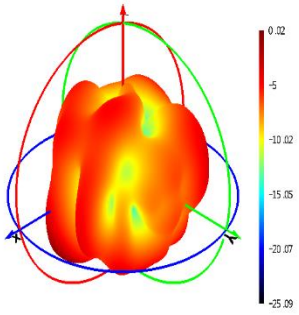
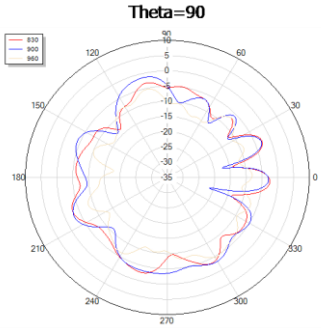
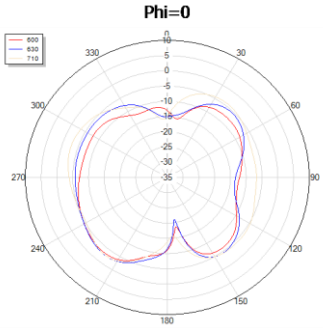
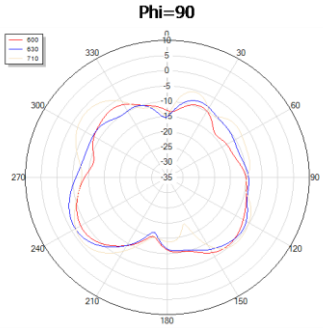
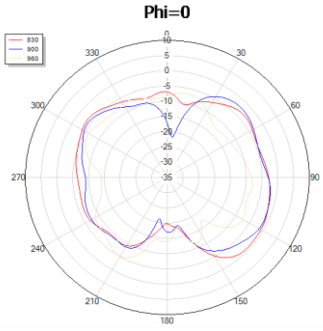
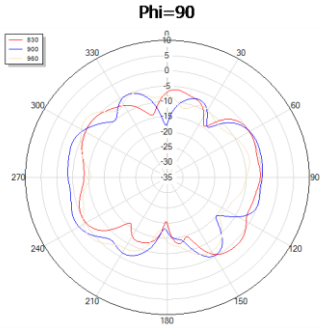
1575 MHz		1602 MHz	
			
			

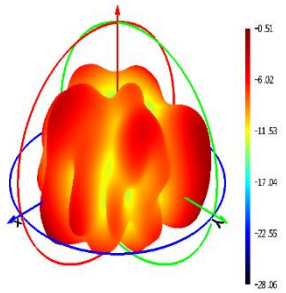
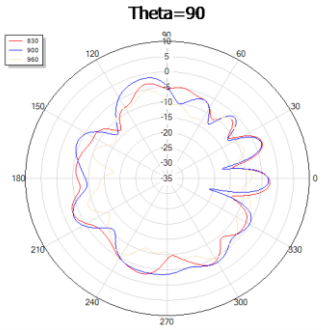
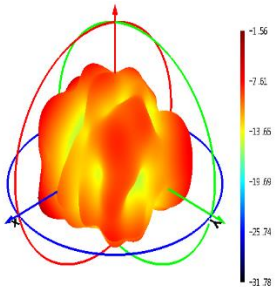
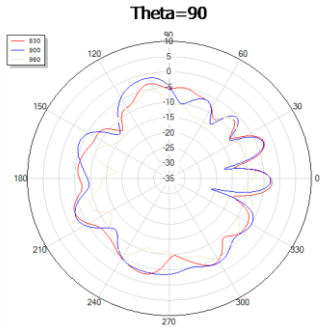
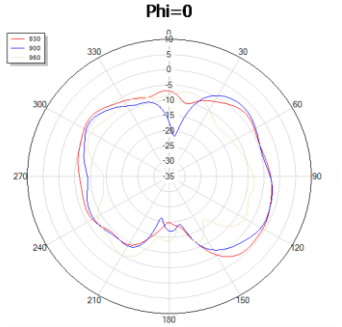
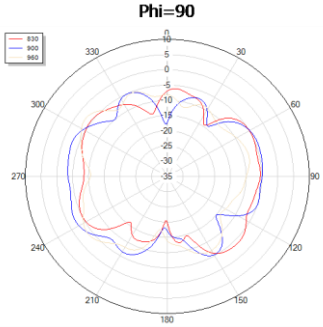
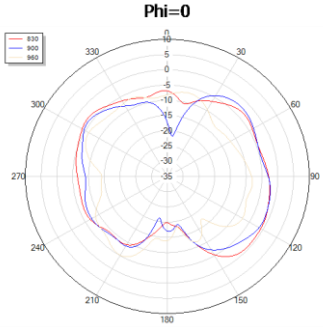
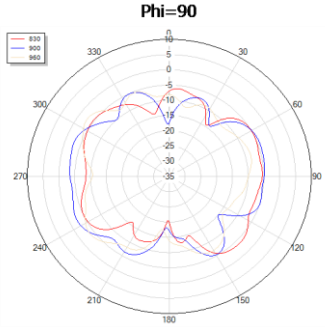
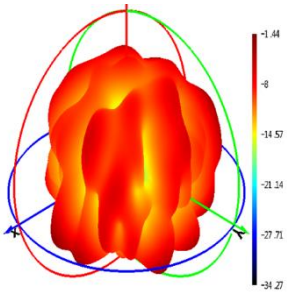
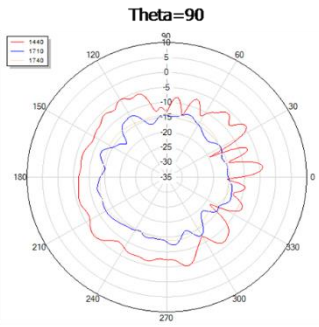
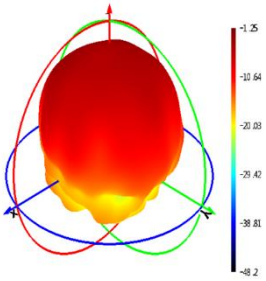
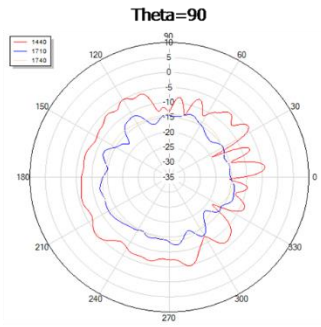
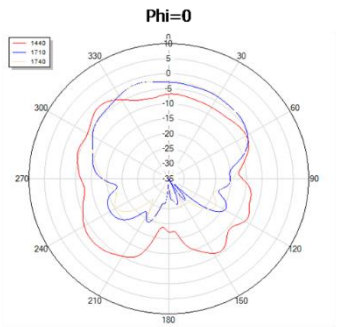
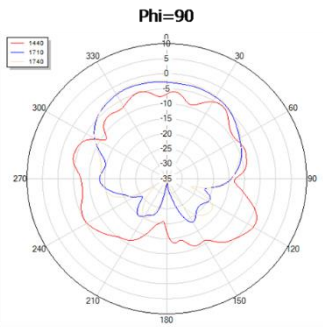
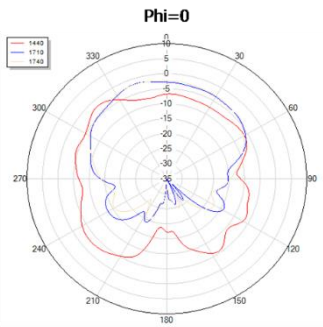
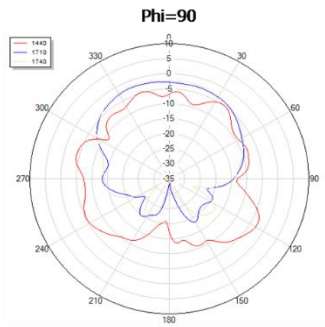
3.2.4.2. Test Condition: On 300 mm × 300 mm Metal Plane

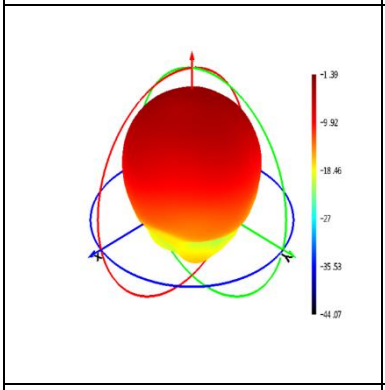
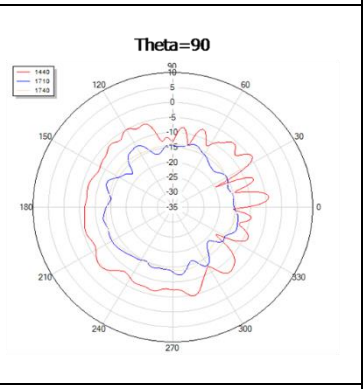
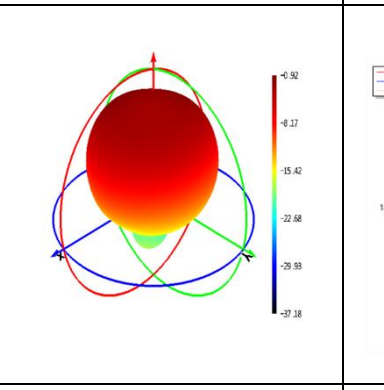
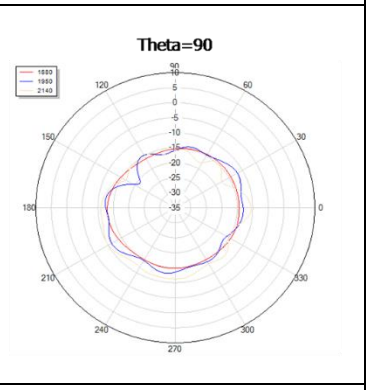
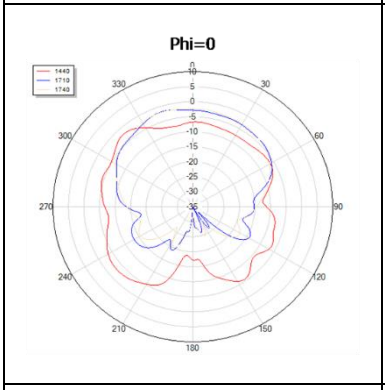
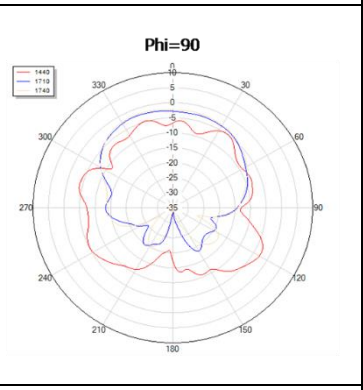
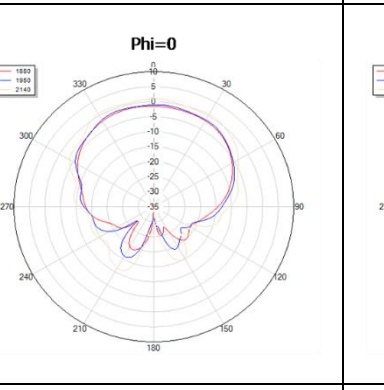
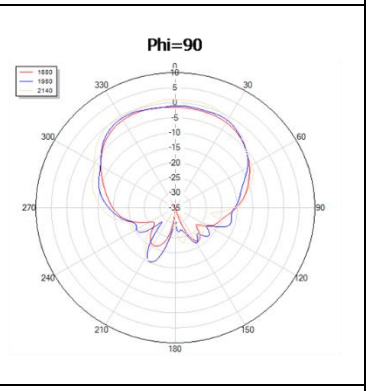
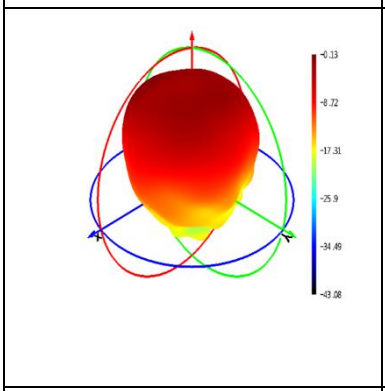
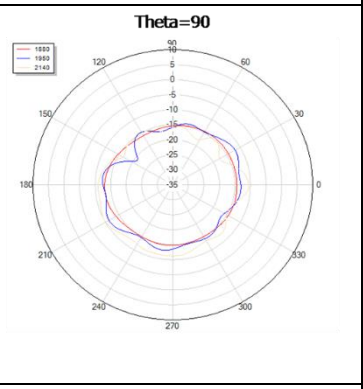
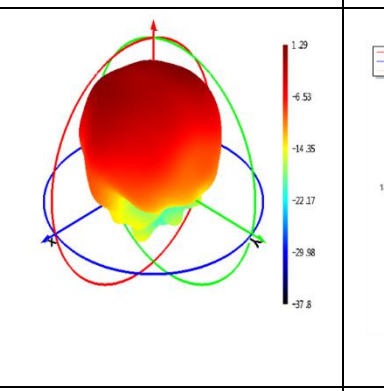
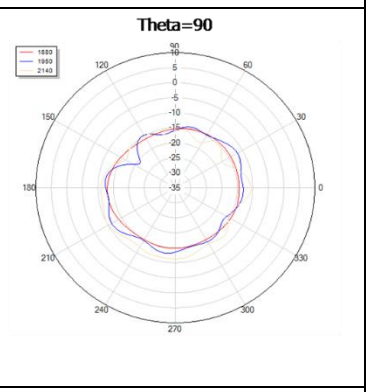
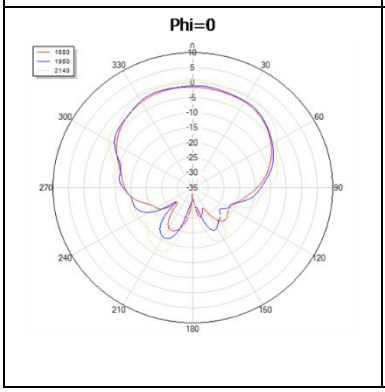
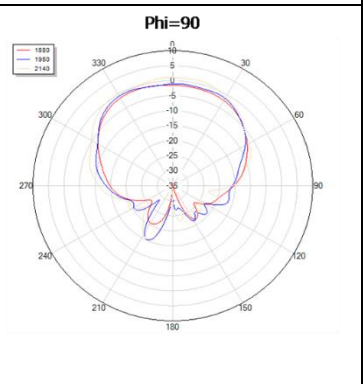
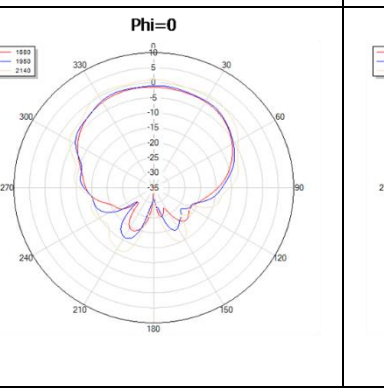
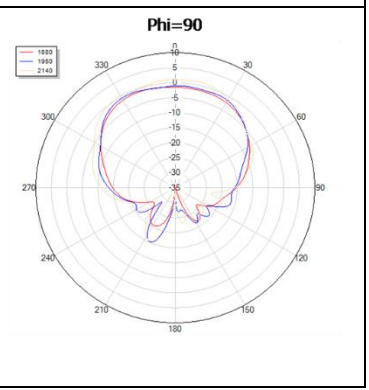
- Test Chamber: HF-S-1

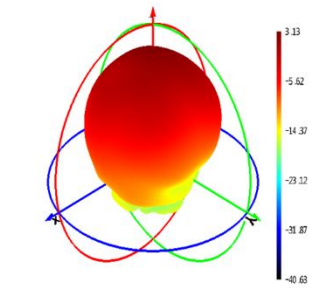
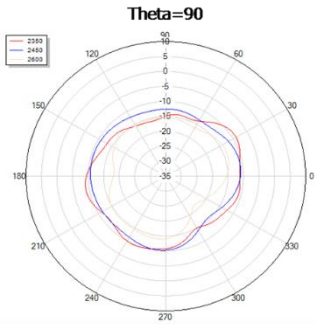
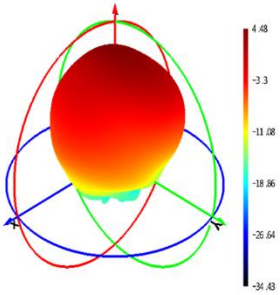
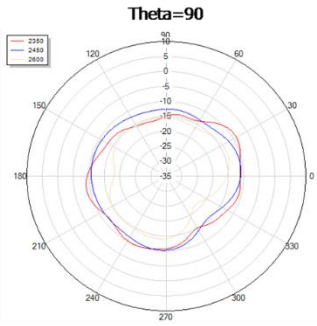
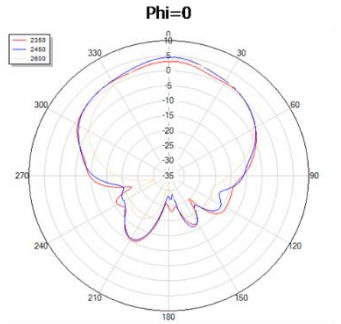
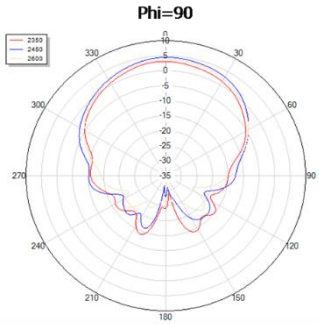
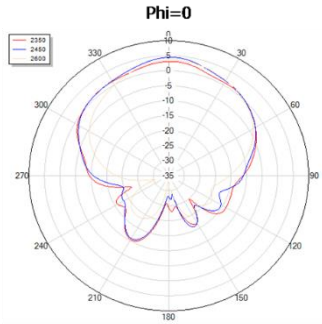
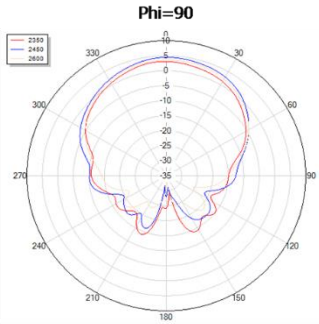
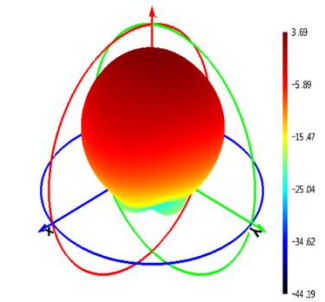
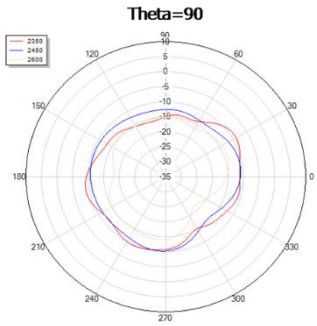
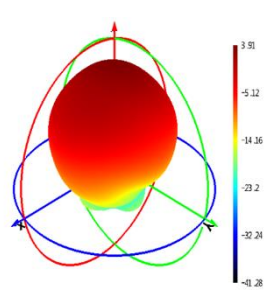
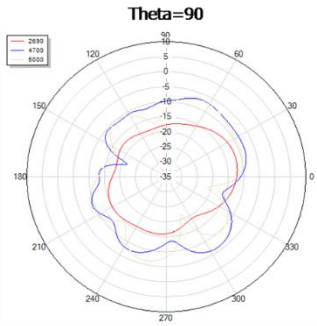
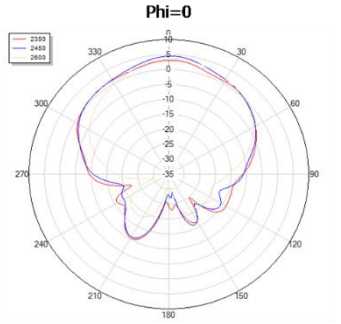
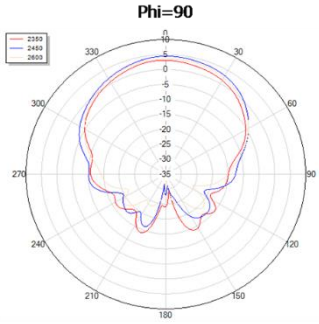
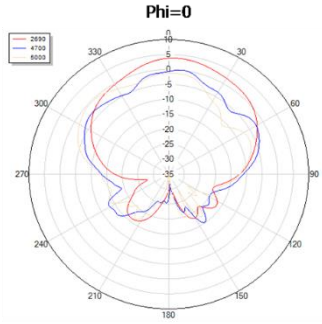
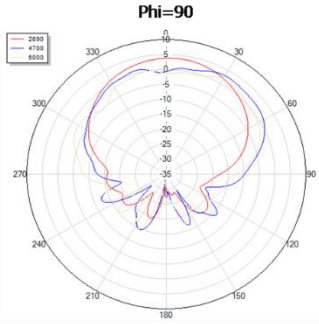


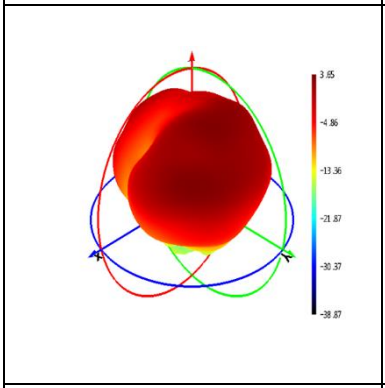
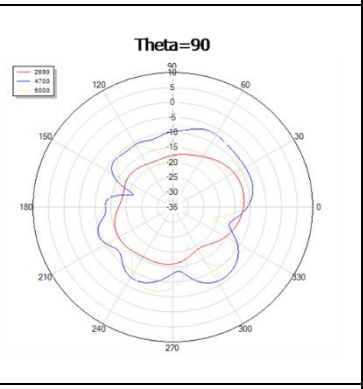
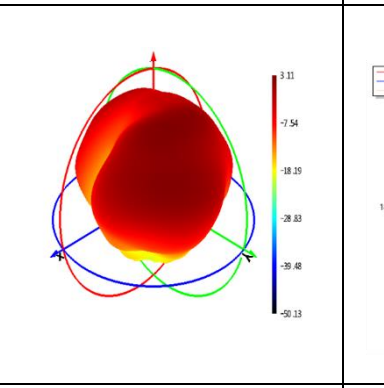
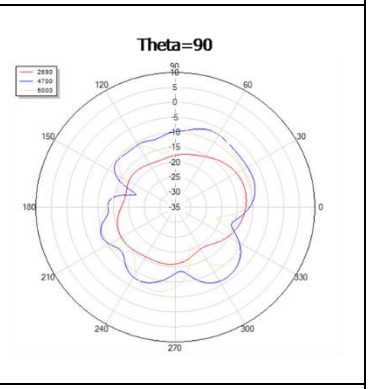
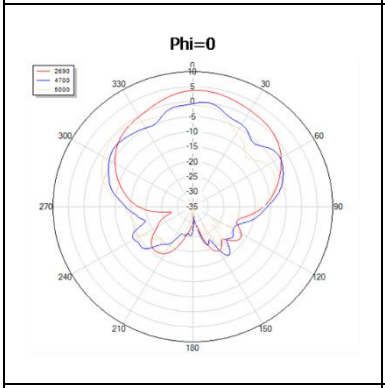
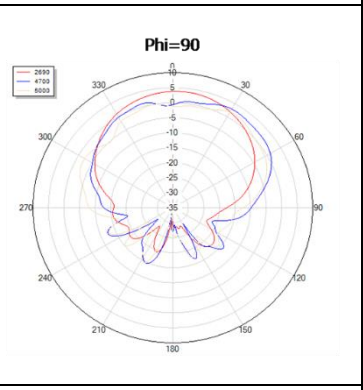
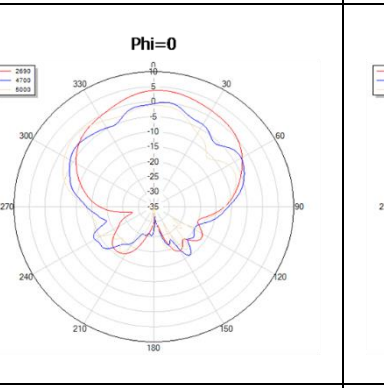
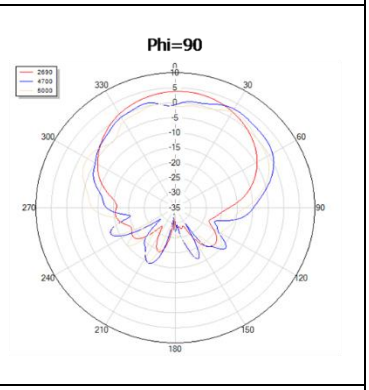
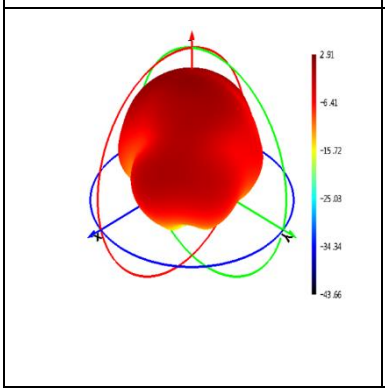
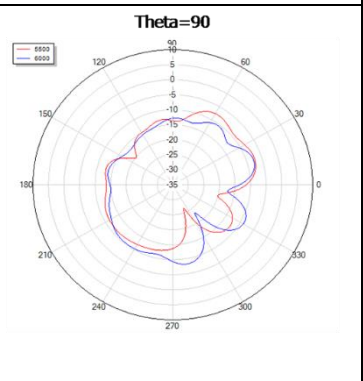
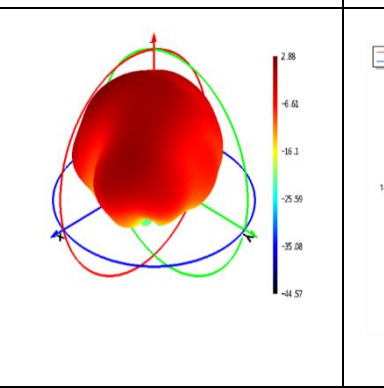
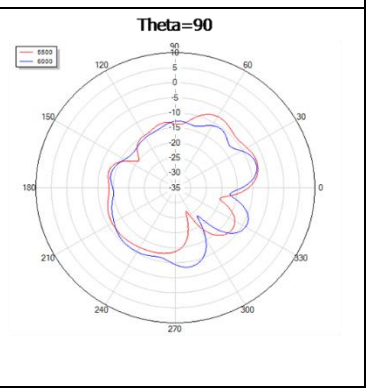
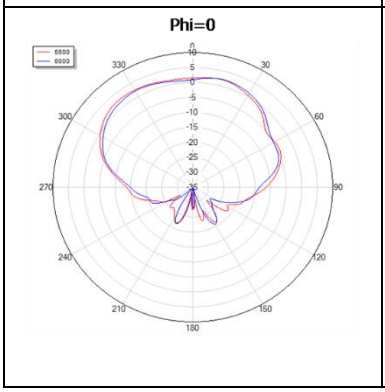
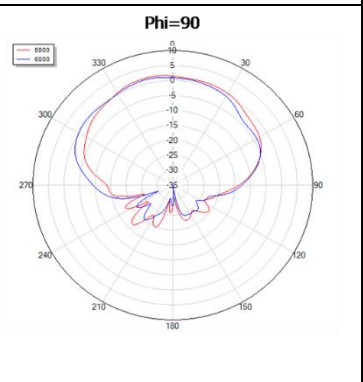
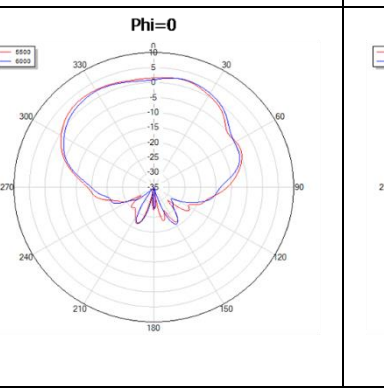
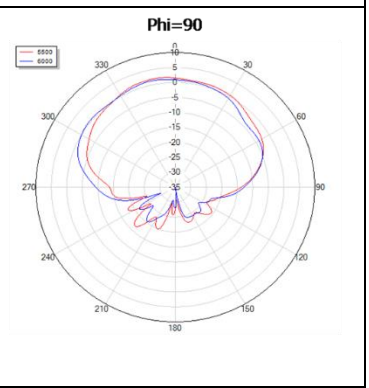
- **5G**

600 MHz		630 MHz	
			
			
710 MHz		830 MHz	
			
			

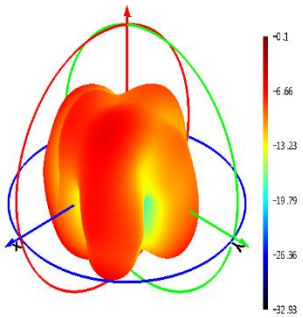
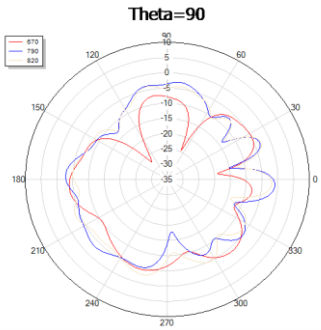
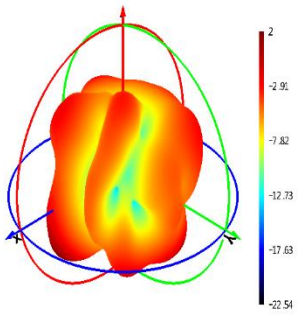
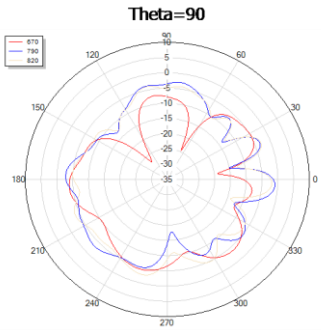
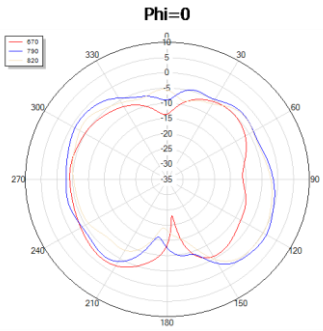
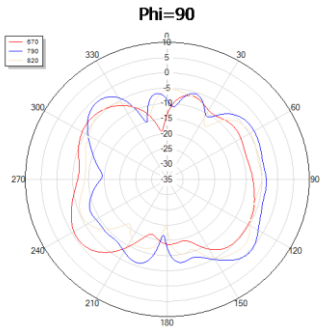
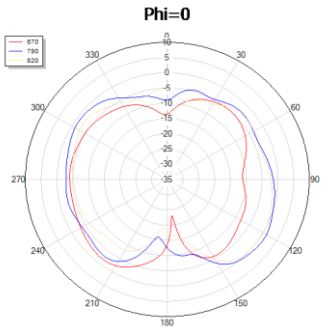
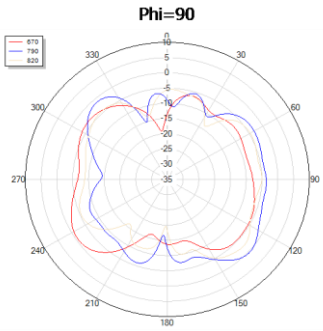
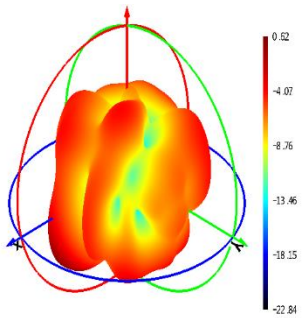
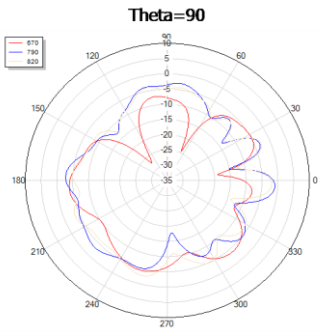
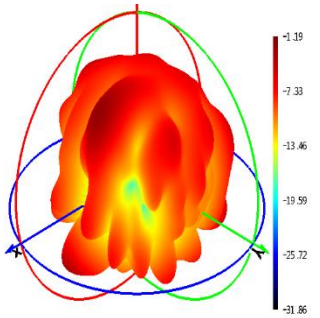
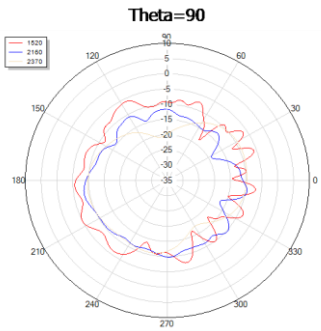
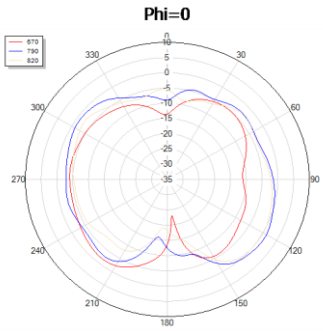
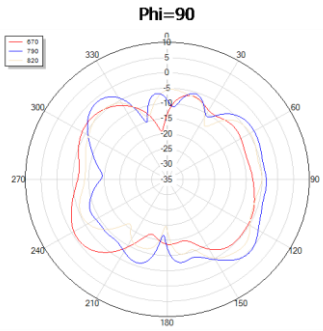
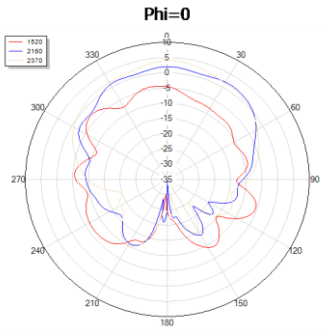
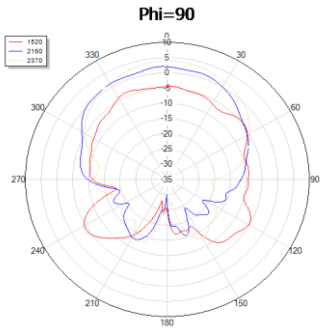
900 MHz		960 MHz	
			
			
1440 MHz		1710 MHz	
			
			

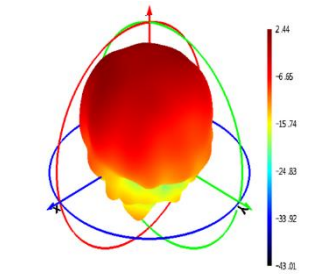
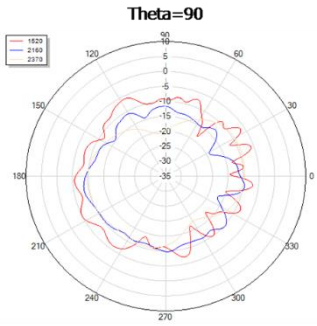
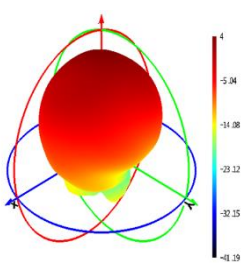
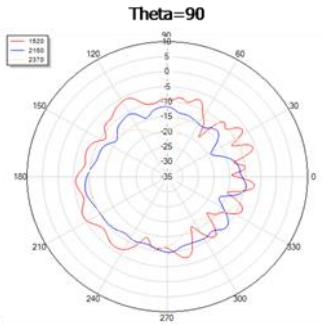
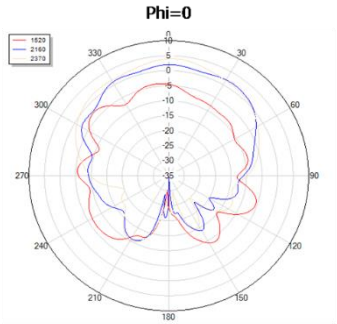
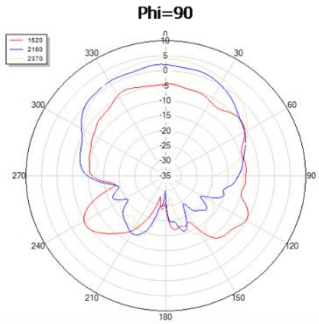
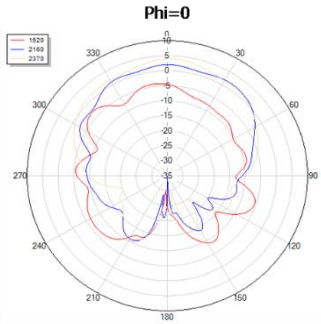
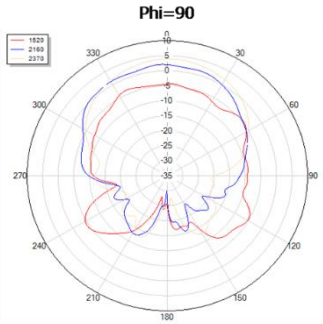
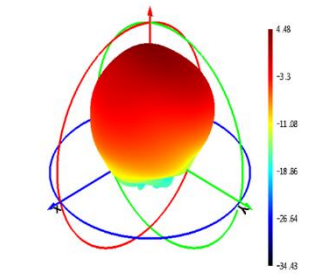
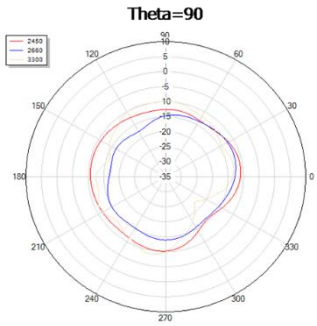
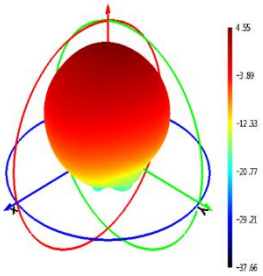
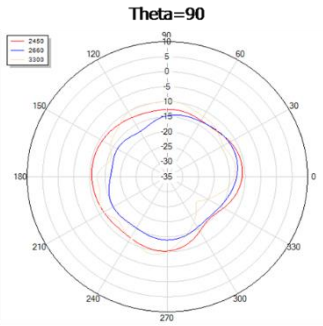
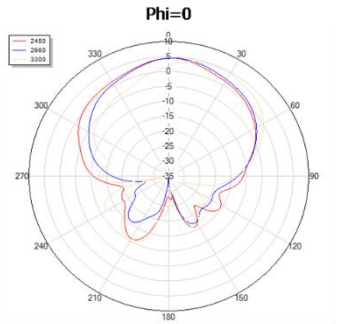
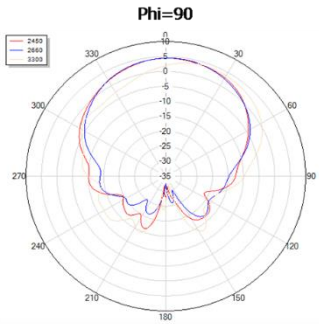
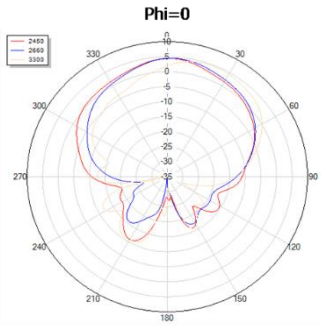
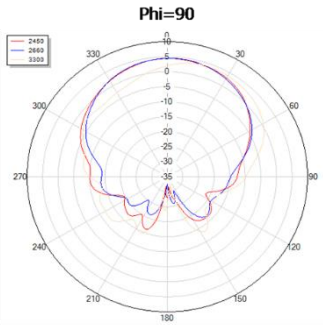
1740 MHz		1880 MHz	
			
			
1950 MHz		2140 MHz	
			
			

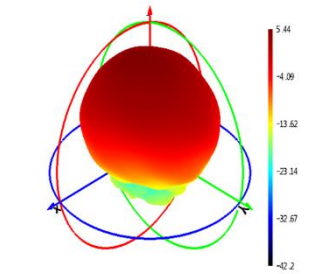
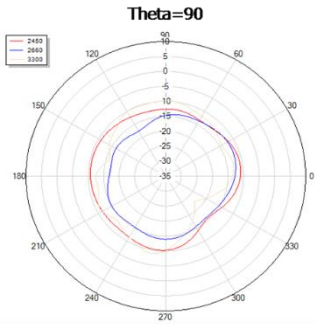
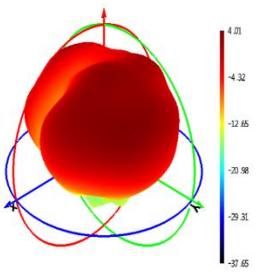
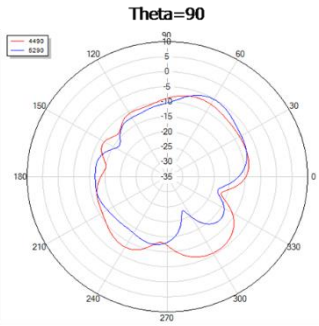
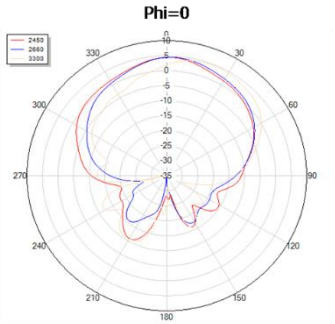
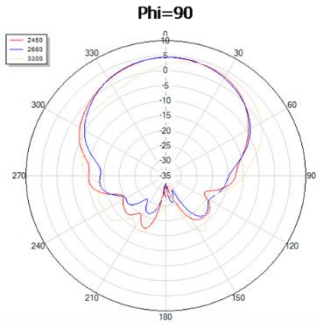
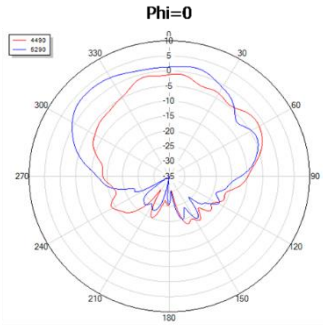
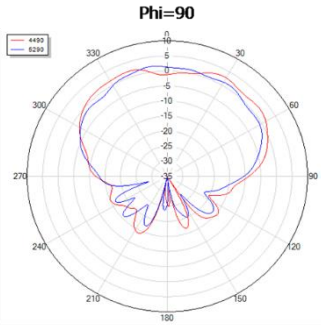
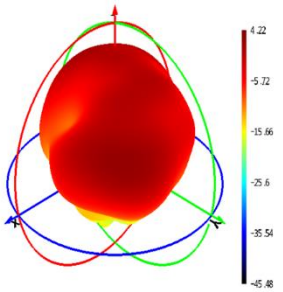
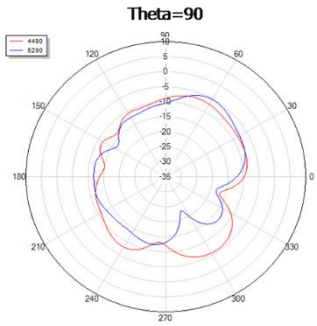
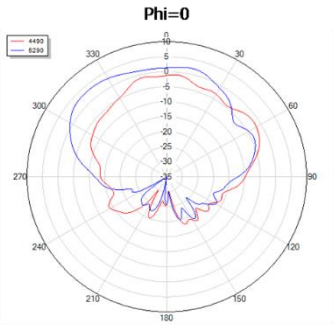
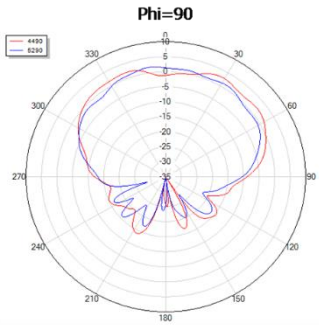
2350 MHz		2450 MHz	
			
			
2600 MHz		2690 MHz	
			
			

4700 MHz		5000 MHz	
			
			
5500 MHz		6000 MHz	
			
			

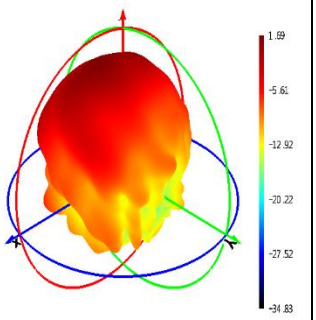
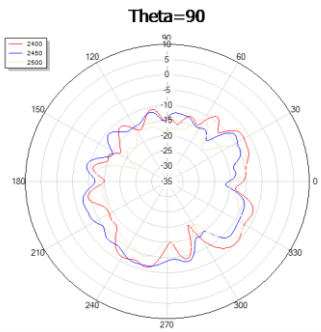
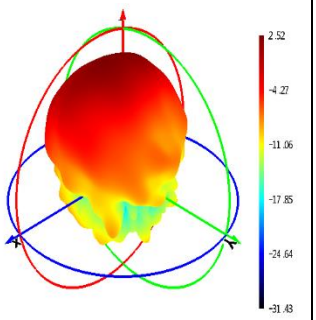
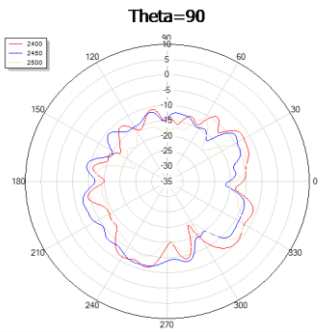
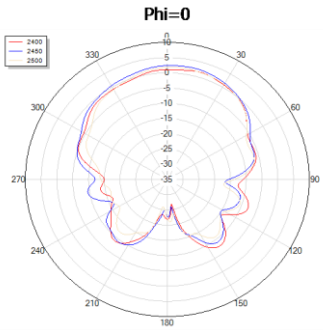
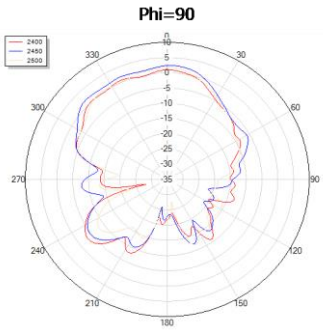
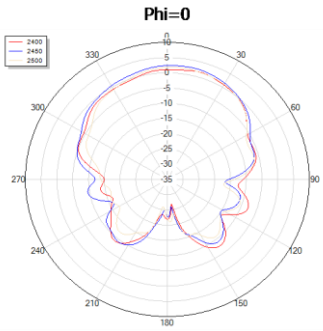
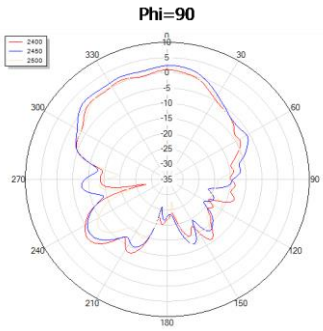
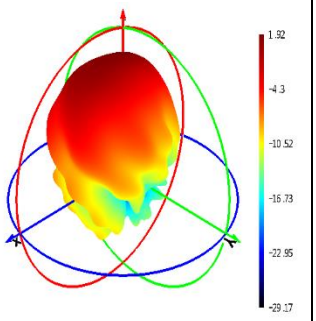
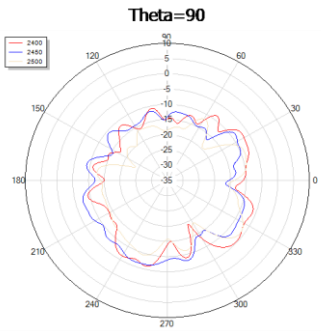
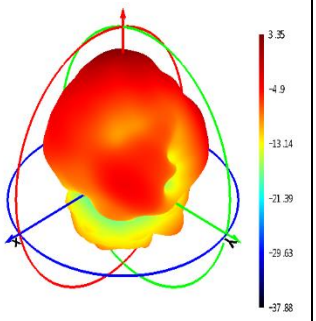
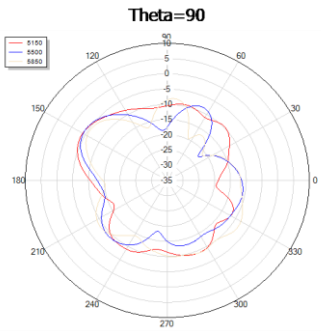
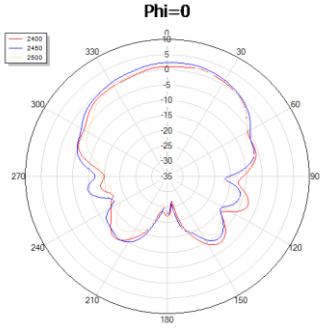
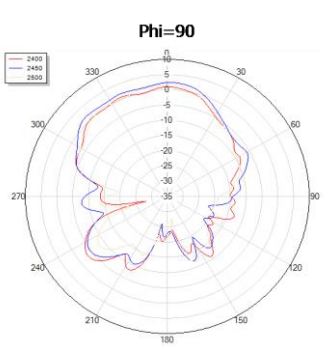
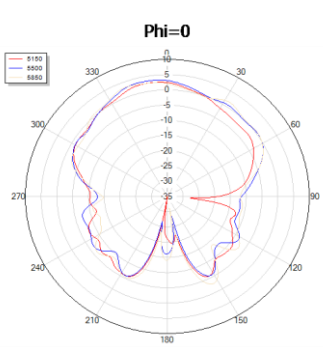
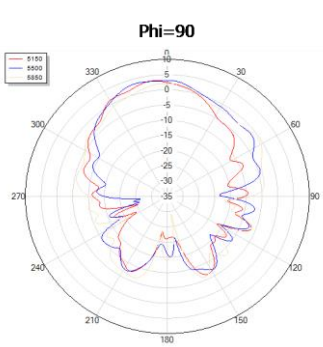
- **5G MAX Peak Gain**

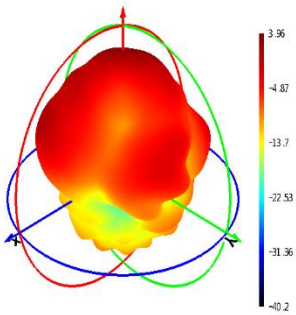
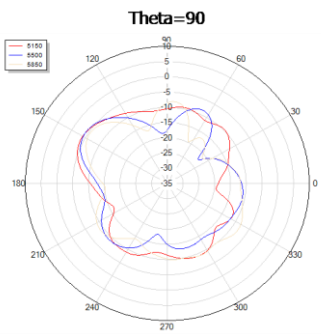
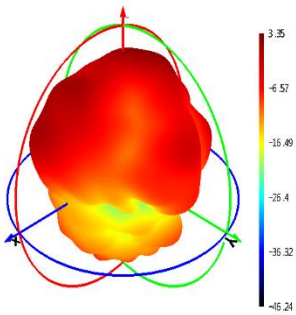
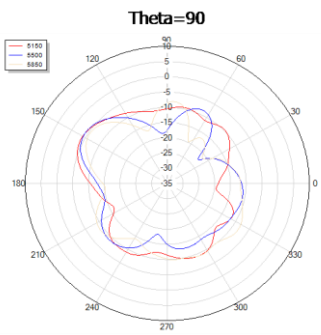
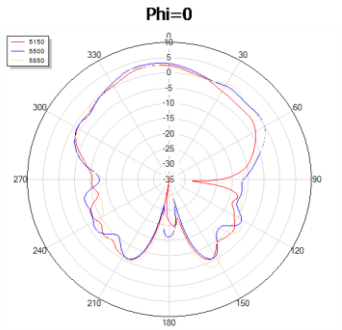
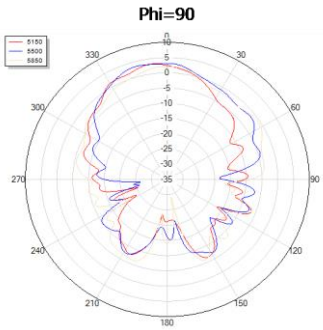
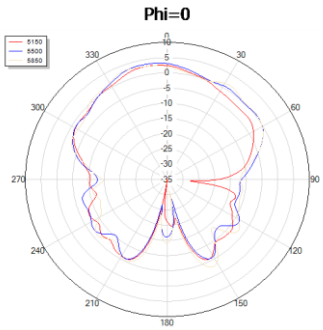
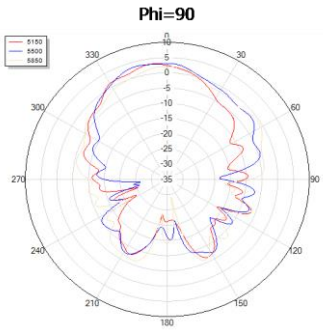
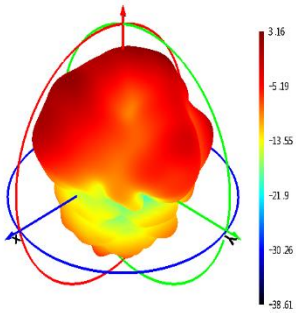
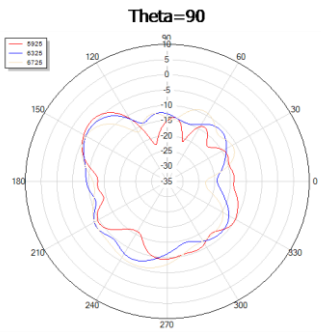
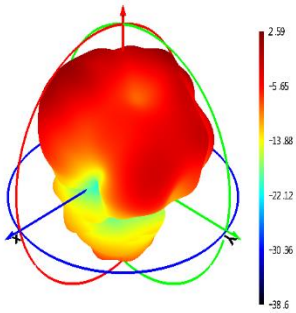
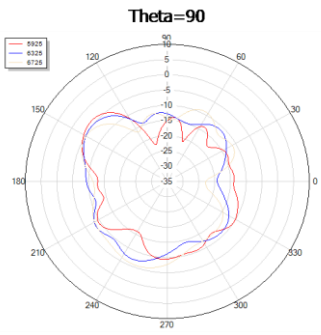
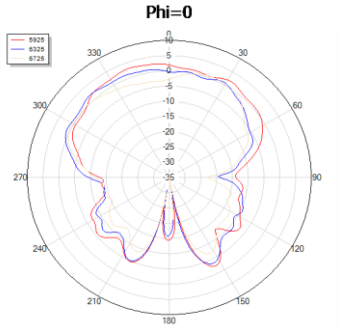
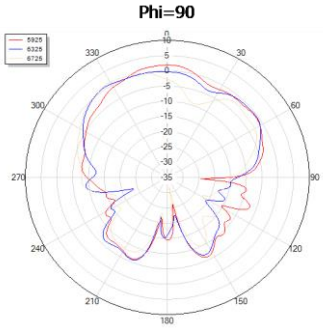
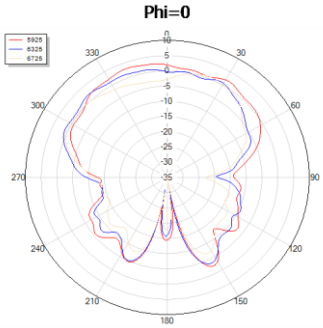
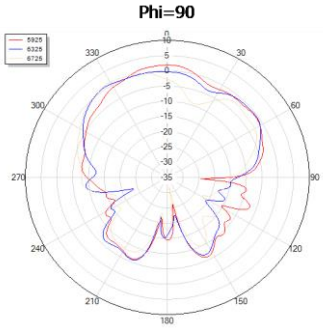
670 MHz		790 MHz	
			
			
820 MHz		1520 MHz	
			
			

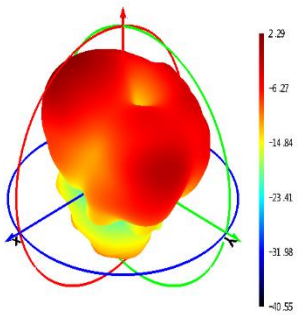
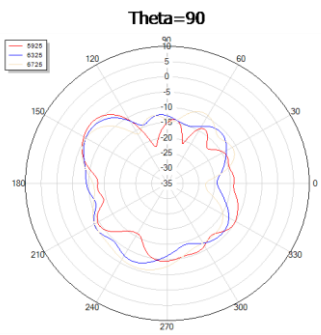
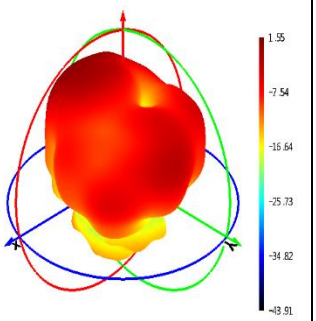
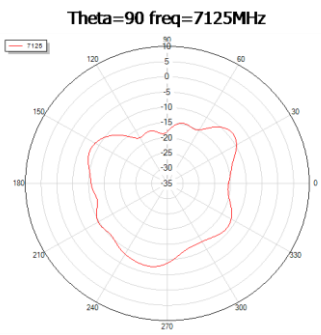
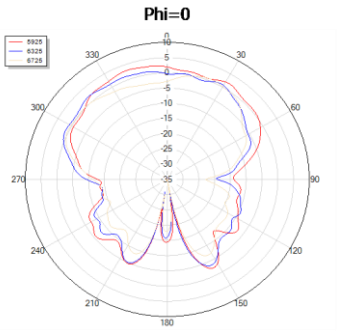
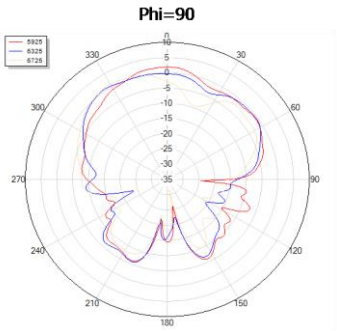
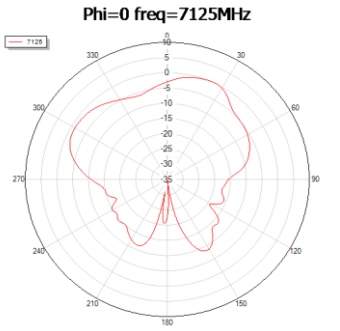
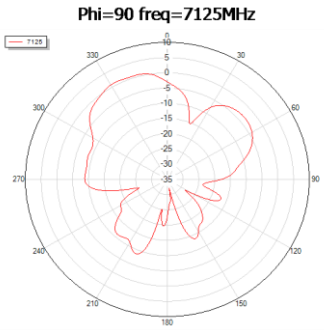
2160 MHz		2370 MHz	
			
			
2450 MHz		2660 MHz	
			
			

3300 MHz		4490 MHz	
			
			
5290 MHz			
			
			

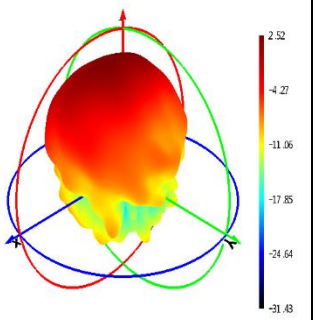
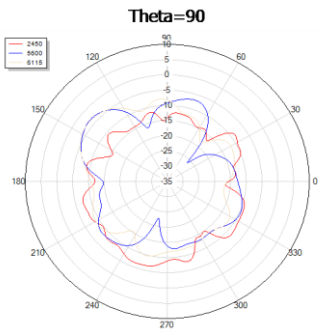
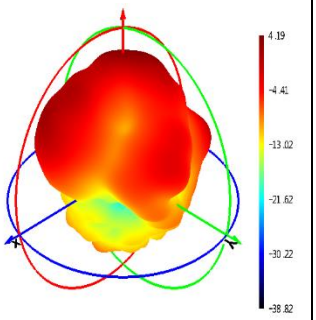
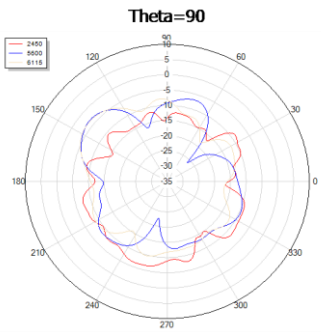
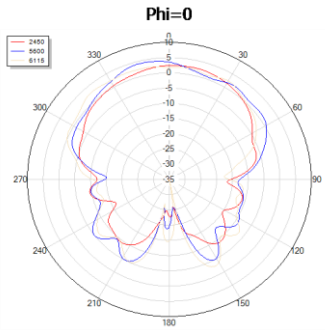
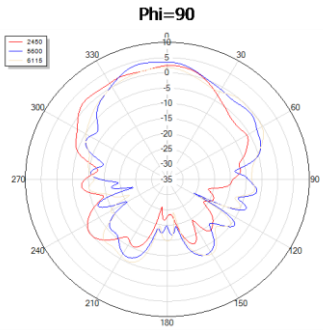
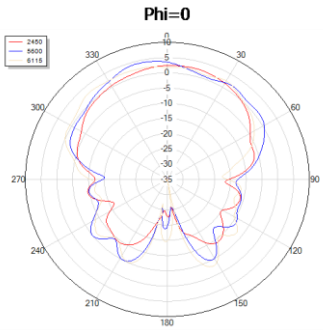
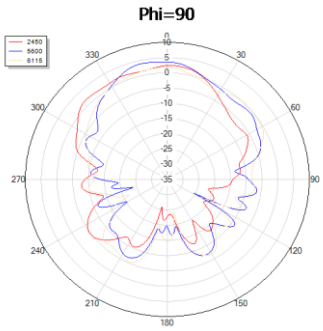
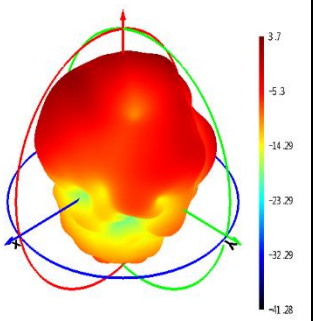
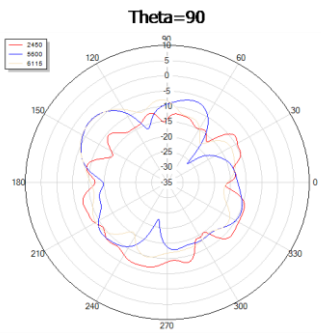
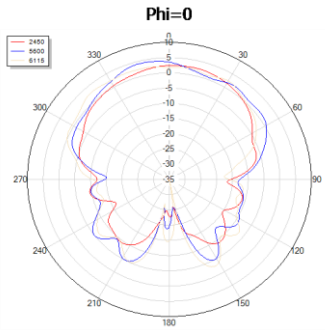
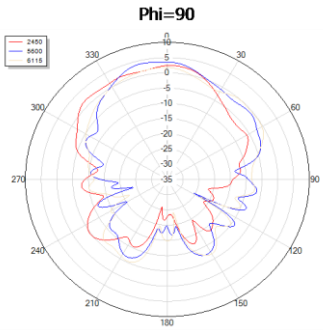
- **Wi-Fi**

2400 MHz		2450 MHz	
			
			
2500 MHz		**5150 MHz**	
			
			

5500 MHz		5850 MHz	
			
			
5925 MHz		**6325 MHz**	
			
			

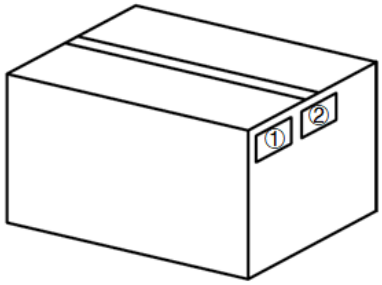
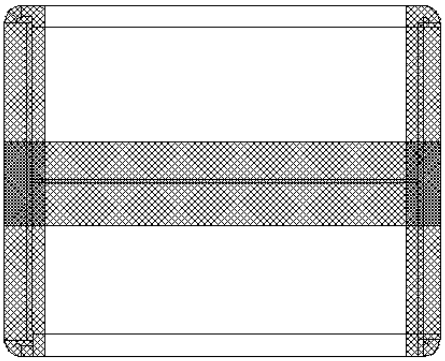
6725 MHz		7125 MHz	
			
			

- **Wi-Fi MAX Peak Gain**

2450 MHz		5600 MHz	
			
			
6115 MHz			
			
			

4 Packaging

Step	Packaging Picture / 2D Picture	Description
1		1 antenna product head is wrapped with a bubble bag. (1 Antenna / Bubble Bag) Whole antenna product in a PE bag. (1 Antenna / PE Bag)
2		15 antenna products in a PE bag. (15 Antennas / PE Bag)
3		(8 PE Bags / Carton Box) (120 Antennas / Carton Box) Estimated quantity Products that cannot fill the entire carton box are packed in a suitable size carton box. Carton Size: L × W × H = 470 × 310 × 310 mm

4		**Position for Attaching Labels** ① Carton Label ② Quality Label
5		**Sealing Cartons** H-shaped sealing cartons
Note	The initial packaging method described above is for reference only, and the final actual packaging method shall be subject to the actual shipping packaging.	

Contact Us

At Quectel, our aim is to provide timely and comprehensive services to our customers. If you require any assistance, please contact our headquarters:

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Revision History

Version	Date	Author	Note
-	2026-01-15	Ryan Xun/ Junsen Li/ Blake Xiang/ Strong Qiang/ Rainey Liao	Creation of the document
1.0	2026-01-15	Ryan Xun/ Charming Yang/ Blake Xiang/ Strong Qiang/ Rainey Liao	First official release

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