



Antenna Datasheet

Product OC: YEMN203L1AM

Version: 1.1

Date: 2026-01-12

Status: Released

Product Name: 5G & GNSS 2in1 Screw Mount Combo Antenna

Key Features:

Frequency Band: 5G: 600–960 MHz, 1700–2690 MHz, 3300–6000 MHz

GNSS: 1559–1606 MHz

Dimensions: Φ 50 × 48 mm

Efficiency: Up to 60 % (5G FS) & 45 % (GNSS FS)

GNSS LNA Gain: 16 ±3 dB

RoHS Compliant

IP67

Overview

YEMN203L1AM is a 5G & GNSS 2in1 measuring Φ 50 mm $\times$ 48 mm. This ultra-wide-band 5G & GNSS antenna provides broad coverage from 600–960 MHz, 1700–2690 MHz, 3300–6000 MHz, 1559–1606 MHz whilst offering backward-compatibility to support 4G/3G and 2G networks as well as LTE Cat-M and narrowband IoT (NB-IoT). The antenna is available magnet & adhesive & screw mount omni-directional antenna, ideal for applications where the antenna is required to be discrete, is easy to install with maximum durability assured and suitable for use in harsh outdoor environments thanks to its IP67 rated and UL 94 HB Flame Rating enclosure. It is compatible with Quectel 's RM520x series modules.

YEMN203L1AM has 1 $\times$ 5G antenna and 1 $\times$ GNSS L1 antenna. It allows high efficiency, stable signal transmission and reception for active GNSS from 1559–1606 MHz, and 5G bands from 600–960 MHz, 1700–2690 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 & GNSS applications.

- **Typical applications include:**

- ✓ Public safety
- ✓ HD Video Streaming
- ✓ Utilities and Smart Cities
- ✓ Fleet Management
- ✓ Automotive vehicle tracking

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.

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1 Specification

Test Condition: Free Space & On 300 mm × 300 mm metal plane

1.1. Electrical

Electrical Specifications			
Frequency Range	5G	600–960 MHz, 1700–2690 MHz, 3300–6000 MHz	
	GNSS	1559–1606 MHz	
Radiation Pattern	5G	Omni-directional	
	GNSS	Directional	
Polarization	5G	Linear	
	GNSS	RHCP	
Impedance		50 Ω	
Isolation	5G & GNSS	FS	≤ -13.1 dB
		MP	≤ -11.6 dB

1.1.1. 5G

Electrical – Detail												
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	4.0	3.5	2.2	-	2.4	1.5	1.4	1.4	2.1	2.2	2.0
	MP	4.4	3.9	3.0	-	2.1	2.1	2.0	1.9	1.8	2.0	2.2
Max. Return Loss (dB)	FS	-4.4	-5.1	-8.7	-	-7.7	-13.6	-14.8	-15.4	-9.0	-8.5	-9.4
	MP	-4.0	-4.5	-6.1	-	-8.9	-9.3	-9.7	-10.2	-10.8	-9.5	-8.5
AVG Eff. (%)	FS	23.1	33.4	45.4	-	51.6	57.4	55.8	56.5	41.9	39.1	37.6
	MP	11.7	22.5	28.3	-	53.7	49	48.9	50.9	45.6	37.2	34.3
AVG AVG Gain (dB)	FS	-6.4	-4.8	-3.4	-	-2.9	-2.4	-2.5	-2.5	-3.8	-4.1	-4.3
	MP	-9.4	-6.5	-5.5	-	-2.7	-3.1	-3.1	-2.9	-3.4	-4.3	-4.7
Max. Peak Gain (dBi)	FS	0.3 (600)	-0.3 (790)	2.3 (920)	-	2.5 (1930)	2.3 (2400)	2.5 (2440)	2.9 (2640)	1.7 (3480)	2.1 (4920)	2.3 (5290)
	MP	-2.2 (600)	0.2 (790)	1 (960)	-	4.2 (1950)	2.8 (2400)	3 (2430)	3.8 (2670)	4.6 (3660)	2.9 (4920)	3 (5290)
VSWR			FS			≤ 4.0						
			MP			≤ 4.4						
Return Loss			FS			≤ -4.4 dB						
			MP			≤ -4.0 dB						
Gain			FS			≤ 2.9 dBi						
			MP			≤ 4.6 dBi						

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

1.1.2. GNSS

Frequency (MHz)	Band	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	FS	-	-	-	-	-	6.8	1.1	1.1
	MP	-	-	-	-	-	8.2	1.3	1.5
Return Loss (dB)	FS	-	-	-	-	-	-2.6	-30.9	-30.8
	MP	-	-	-	-	-	-2.1	-18.5	-14.3
Efficiency (%)	FS	-	-	-	-	-	11.7	40.6	45.3
	MP	-	-	-	-	-	8.6	35.4	31.6
AVG Gain (dB)	FS	-	-	-	-	-	-6.4	-5.8	-2.9
	MP	-	-	-	-	-	-8.1	-6.0	-4.1
Peak Gain (dBi)	FS	-	-	-	-	-	-4.5	0.7	1.5
	MP	-	-	-	-	-	-4.6	1.8	1.1

LNA Electrical	
LNA Gain	16 ±3 dB
Noise Figure	≤ 2.5 dB
Output VSWR	< 2.0
Filter Out-of-Band Attenuation	≥ 45 dB f0 ±100 MHz f0 (1568 MHz)
Working Voltage	2.7–3.3 V
Working Current	4.3 ±1.5 mA @ 3 V
Impedance	50 Ω

1.2. Supported Bands

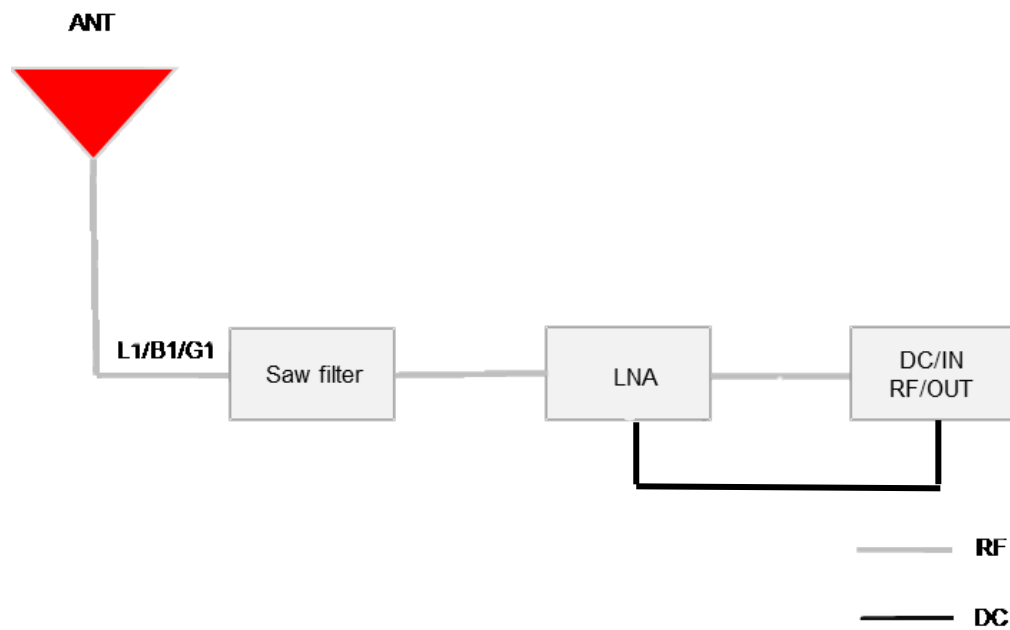
5G NR / LTE / LTE-Advanced / WCDMA / HSPA / HSPA+ / GPRS / GSM / NB-IoT				
Band	Frequency (MHz)	Uplink (MHz)	Downlink (MHz)	5G
1	2100	1920–1980	2110–2170	✓
2	1900	1850–1910	1930–1990	✓
3	1800	1710–1785	1805–1880	✓
4	1700	1710–1755	2110–2155	✓
5	850	824–849	869–894	✓
7	2600	2500–2570	2620–2690	✓
8	900	880–915	925–960	✓
9	1800	1749.9–1784.9	1844.9–1879.9	✓
11	1500	1427.9–1447.9	1475.9–1495.9	-
12	700	699–716	729–746	✓
13	700	777–787	746–756	✓
14	700	788–798	758–768	✓
17	700	704–716	734–746	✓
18	850	815–830	860–875	✓
19	850	830–845	875–890	✓
20	800	832–862	791–821	✓
21	1500	1447.9–1462.9	1495.9–1510.9	-
22	3500	3410–3490	3510–3590	✓
23	2100	2000–2020	2180–2200	✓
24	1600	1626.5–1660.5	1525–1559	✓
25	1900	1850–1915	1930–1995	✓
26	850	814–849	859–894	✓

5G NR / LTE / LTE-Advanced / WCDMA / HSPA / HSPA+ / GPRS / GSM / NB-IoT				
Band	Frequency (MHz)	Uplink (MHz)	Downlink (MHz)	5G
28	700	703–748	758–803	√
31	450	452.5–457.5	462.5–467.5	-
34	2100	2010–2025		√
38	2600	2570–2620		√
39	1900	1880–1920		√
40	2300	2300–2400		√
41	2500	2496–2690		√
42	3500	3400–3600		√
48	3500	3550–3700		√
66	1700	1710–1780	2110–2200	√
71	600	663–698	617–652	√
74	1500	1427–1470	1475–1518	-
77	3500	3300–4200		√
78	3500	3300–3800		√
79	4500	4400–5000		√

1.3. Mechanical & Environmental

Mechanical	
Antenna Dimensions	Φ 50 mm × 48 mm
Antenna Material & Color	PC + ABS & Black
Cable Type & Color & Length	RG174 & Black & 1000 mm
Connector Type	SMA Male (The current state of the SMA connector is not waterproof. If a waterproof connector is required, it can be customized.)
Weight	Typ. 92 g
Mounting Type	Screw
Environmental	
Operation Temperature	-40 °C to +85 °C
Storage Temperature	-40 °C to +85 °C
Ingress Protection (IP) Rating	IP67
RoHS Compliant	Yes
Housing Flame Rating	UL 94 HB

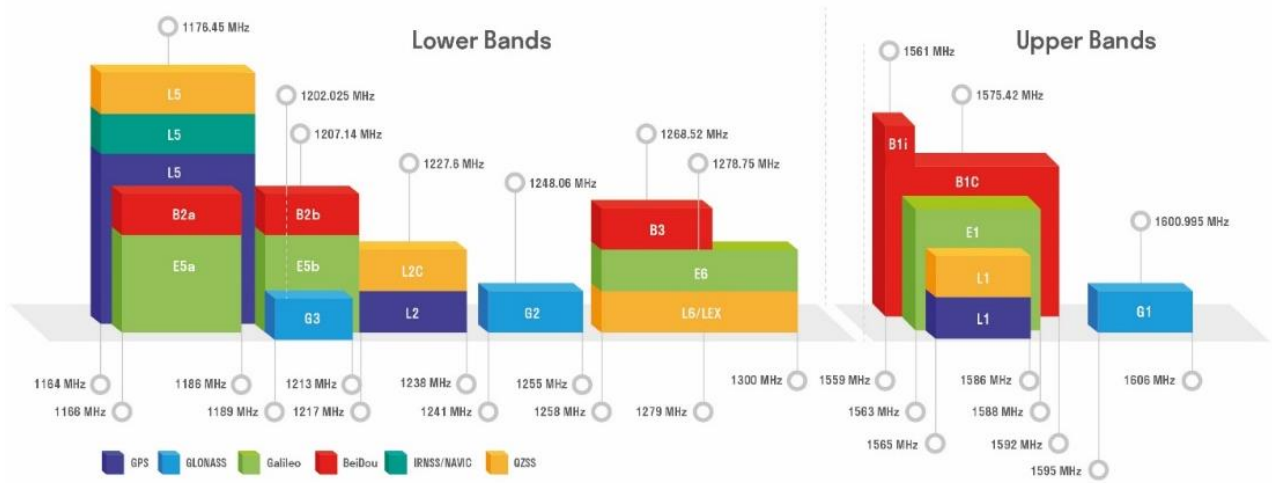
1.4. Block Diagram (Active Antenna)



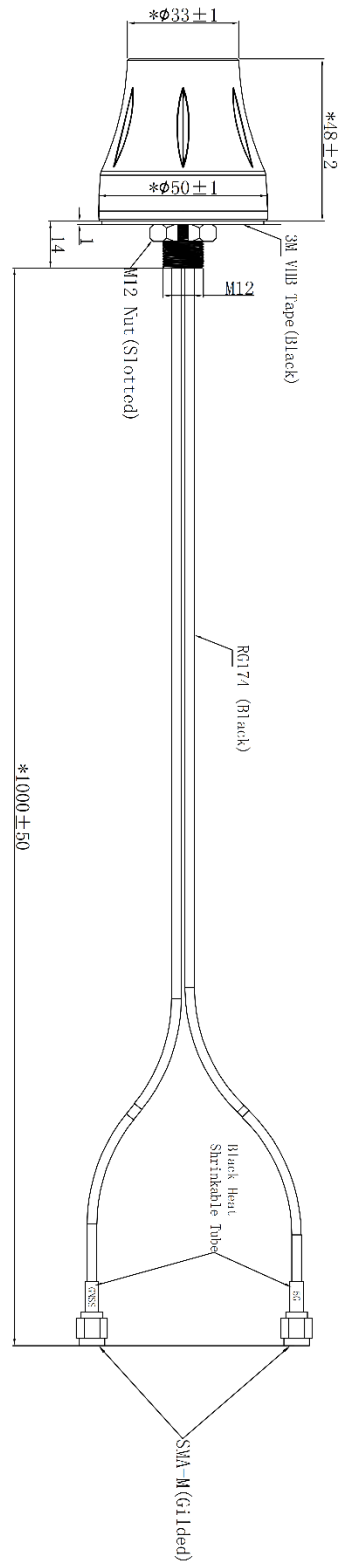
1.5. Supported GNSS Frequency Bands

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-L10C-L10F Centre 1601 (1595–1606)	G2-L20C-L20F Centre 1248.06 (1241–1255)	G3-L30C 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)				
	-				

GNSS Bands and Constellations



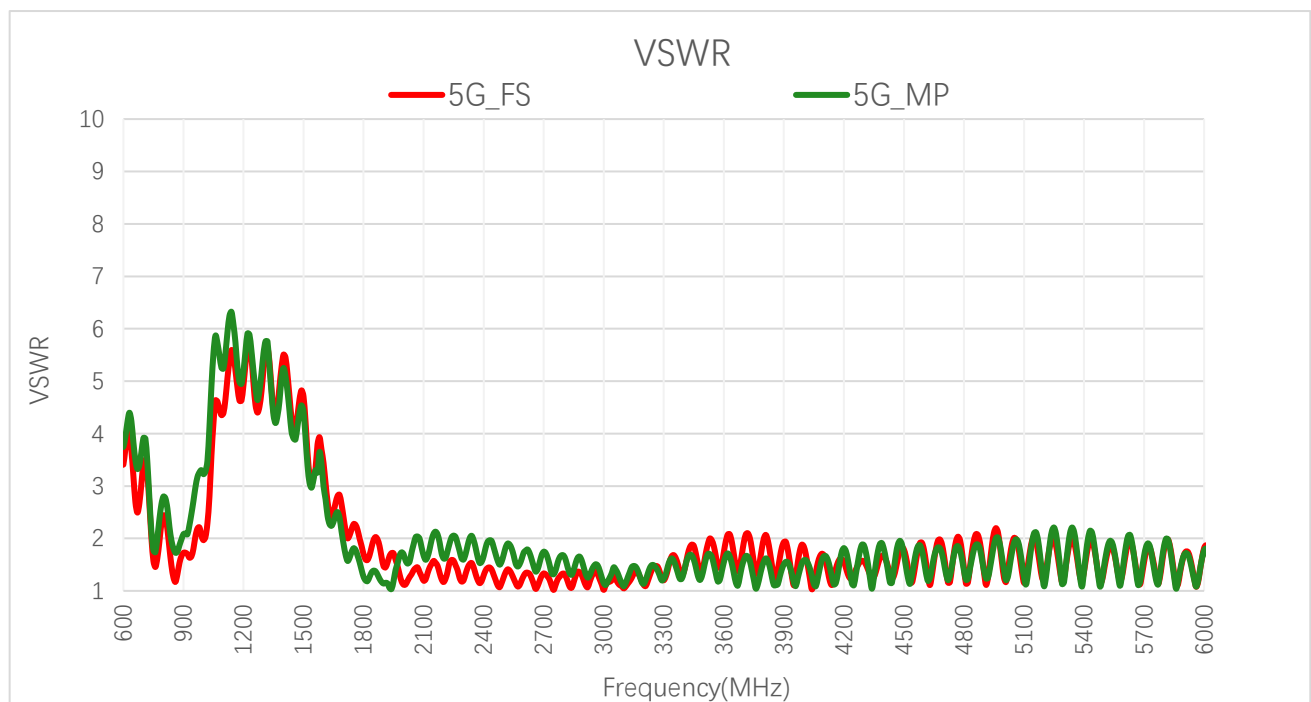
2 Drawing



3 Detailed Performance

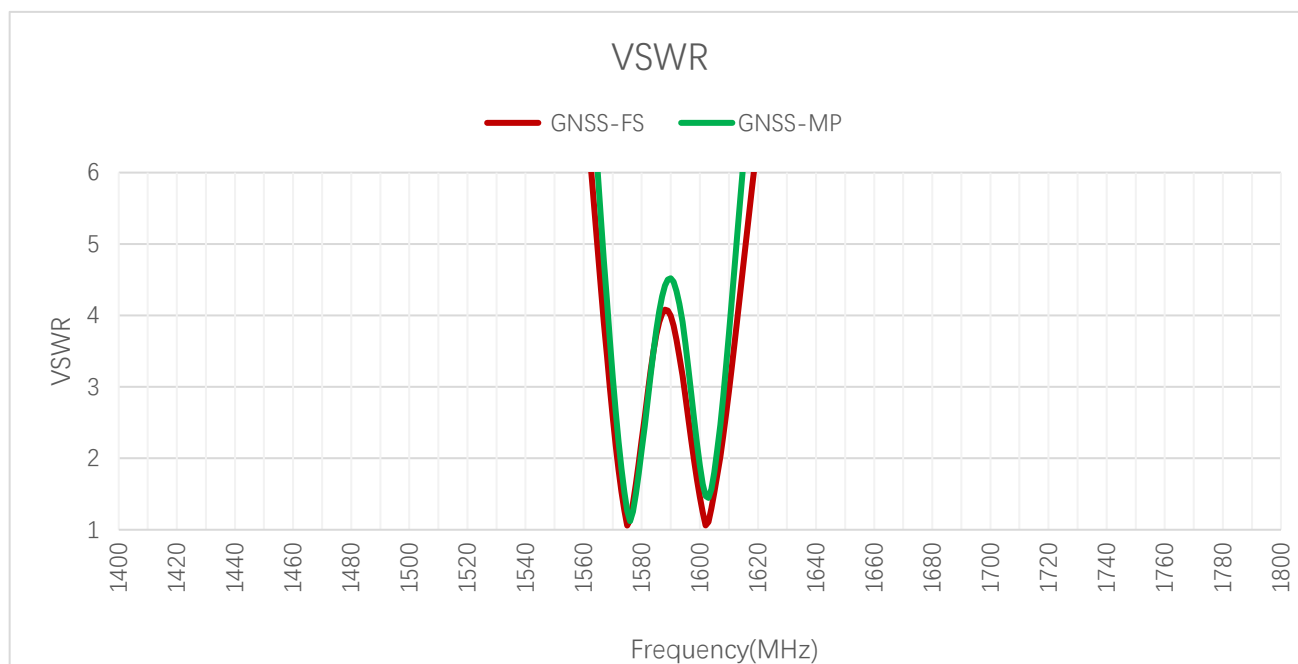
3.1. S-Parameter Test

3.1.1. VSWR



VSWR – 5G

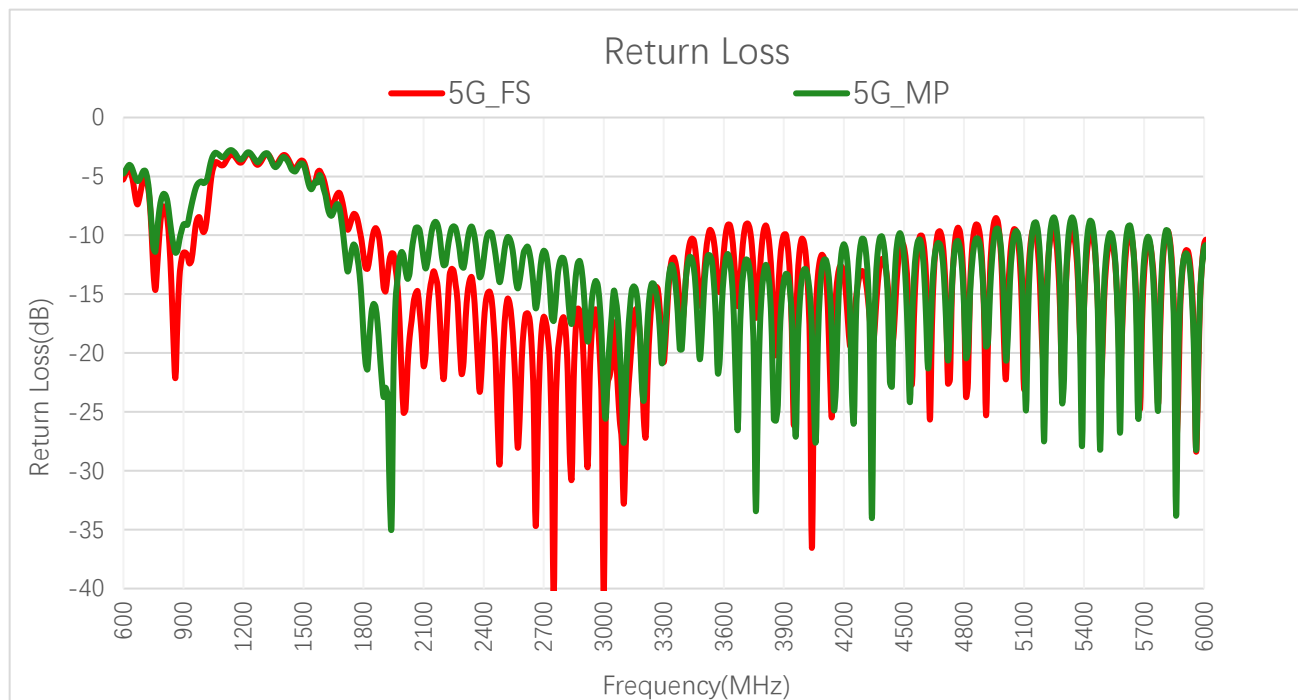
Frequency (MHz)		600	630	710	830	900	960	1440	1710	1740	1880
5G	FS	3.4	4.0	3.5	1.8	1.7	2.0	-	2.2	2.2	1.9
	MP	3.8	4.4	3.9	2.2	2.1	3.0	-	1.7	1.7	1.2
Frequency (MHz)		1950	2140	2350	2450	2600	3600	4700	5000	5500	6000
5G	FS	1.7	1.5	1.4	1.3	1.3	1.7	1.7	1.3	1.4	1.8
	MP	1.2	2.0	2.0	1.8	1.7	1.5	1.5	1.4	1.5	1.8



VSWR – GNSS

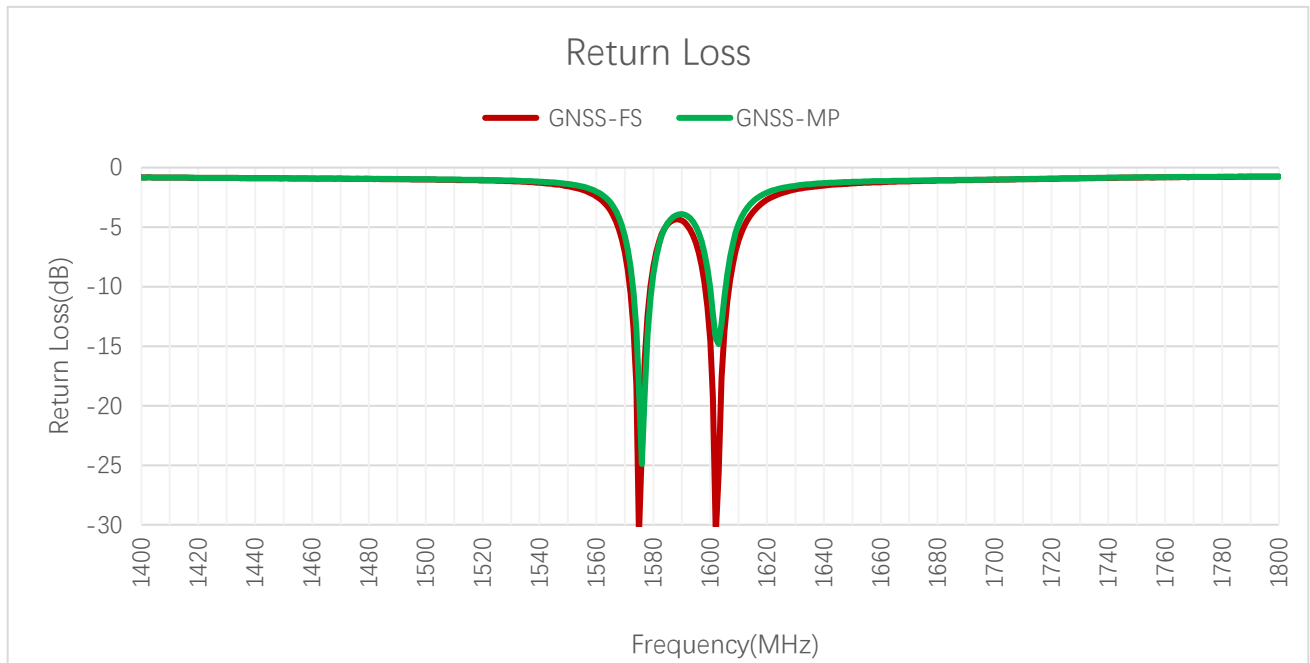
Frequency (MHz)		1176	1207	1227	1248	1268	1561	1575	1602
VSWR	FS	-	-	-	-	-	6.8	1.1	1.1
	MP	-	-	-	-	-	8.2	1.3	1.5

3.1.2. Return Loss



Return Loss (dB) – 5G

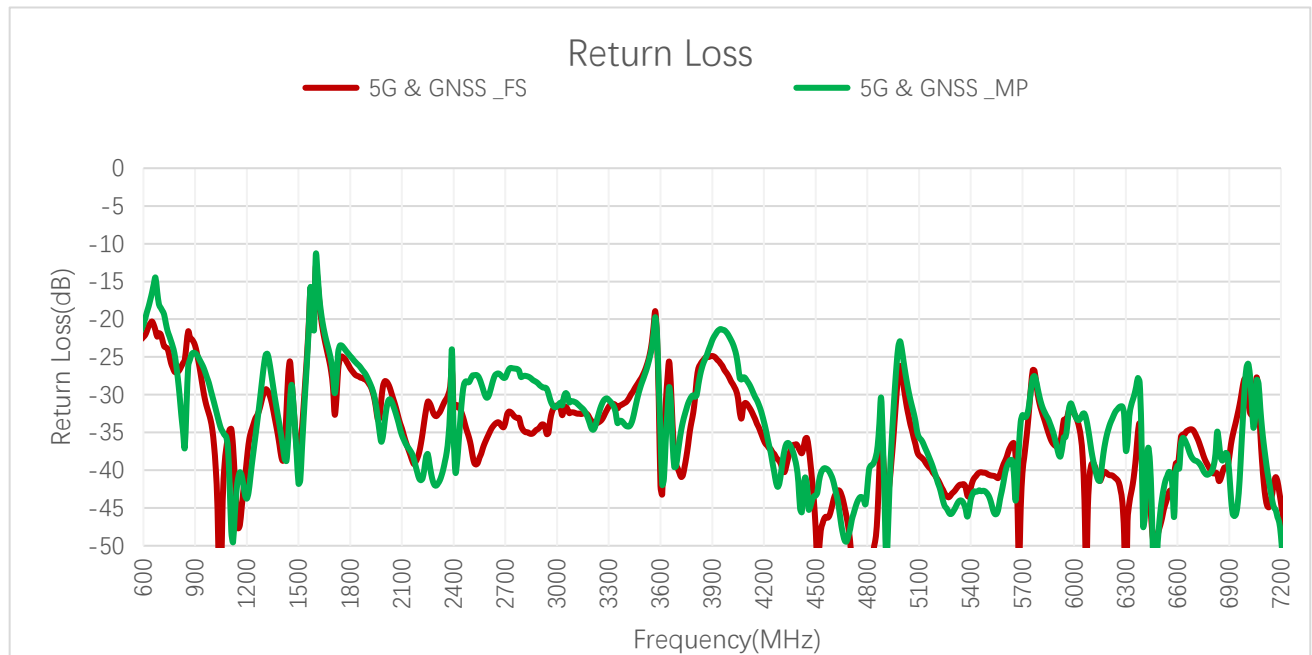
Frequency (MHz)		600	630	710	830	900	960	1440	1710	1740	1880
5G	FS	-5.2	-4.4	-5.1	-10.8	-11.5	-9.3	-	-8.7	-8.6	-10.5
	MP	-4.7	-4.0	-4.6	-8.4	-9.1	-6.1	-	-11.8	-11.4	-19.7
Frequency (MHz)		1950	2140	2350	2450	2600	3600	4700	5000	5500	6000
5G	FS	-11.6	-13.8	-14.7	-17.5	-18.1	-11.4	-11.9	-19.1	-15.6	-10.7
	MP	-21.3	-9.7	-9.7	-10.6	-11.5	-13.4	-13.5	-15.7	-14.4	-11.1



Return Loss (dB) – GNSS

Frequency (MHz)		1176	1207	1227	1248	1268	1561	1575	1602
Return Loss (dB)	FS	-	-	-	-	-	-2.6	-30.9	-30.8
	MP	-	-	-	-	-	-2.1	-18.5	-14.3

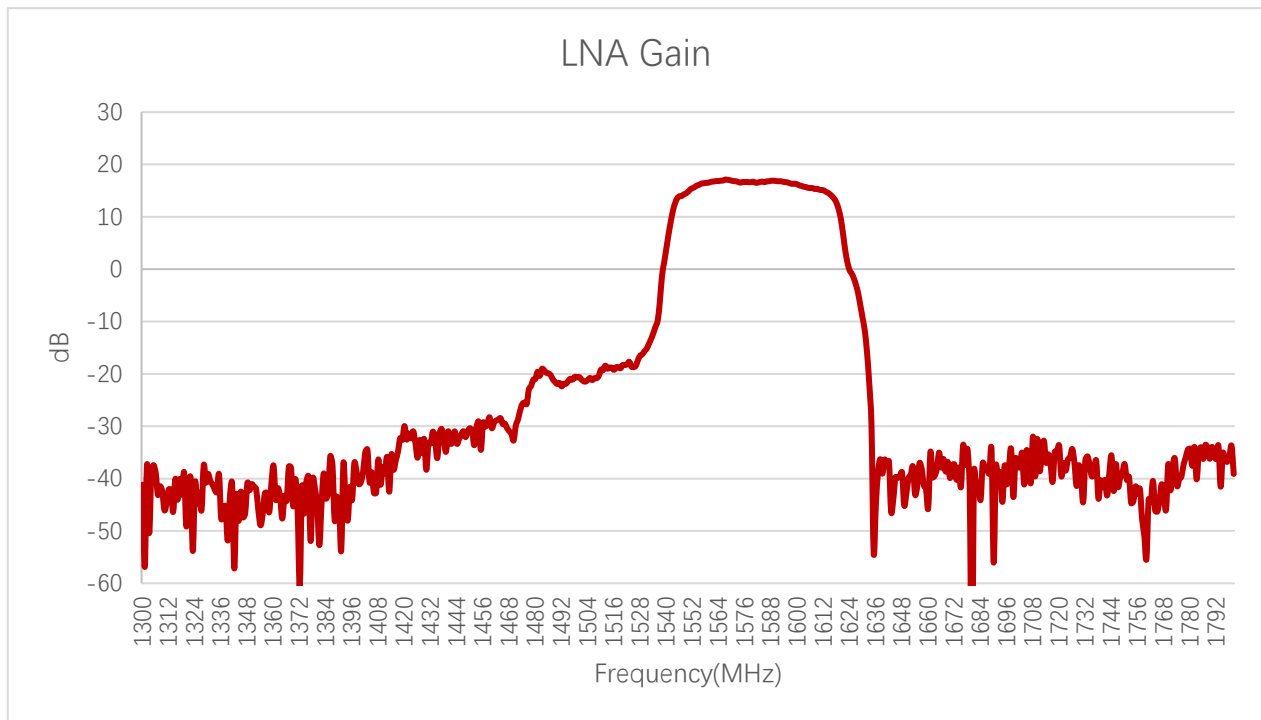
3.1.3. Isolation



Max Isolation (dB)

Band		B71	B12/ B13/ B28	B5/ B8/ B26	n74/ n75/ n76	B1/ B2/ B3	B40	GNSS L1
Freq. (MHz)		600– 700	700– 810	820– 960	1420– 1520	1700– 2170	2300– 2400	1559– 1606
5G & GNSS	FS	-20.3	-22.0	-21.6	-25.6	-24.9	-26.7	-13.1
	MP	-14.5	-18.5	-24.4	-28.7	-23.5	-24.0	-11.6

3.1.4. GNSS LNA Gain

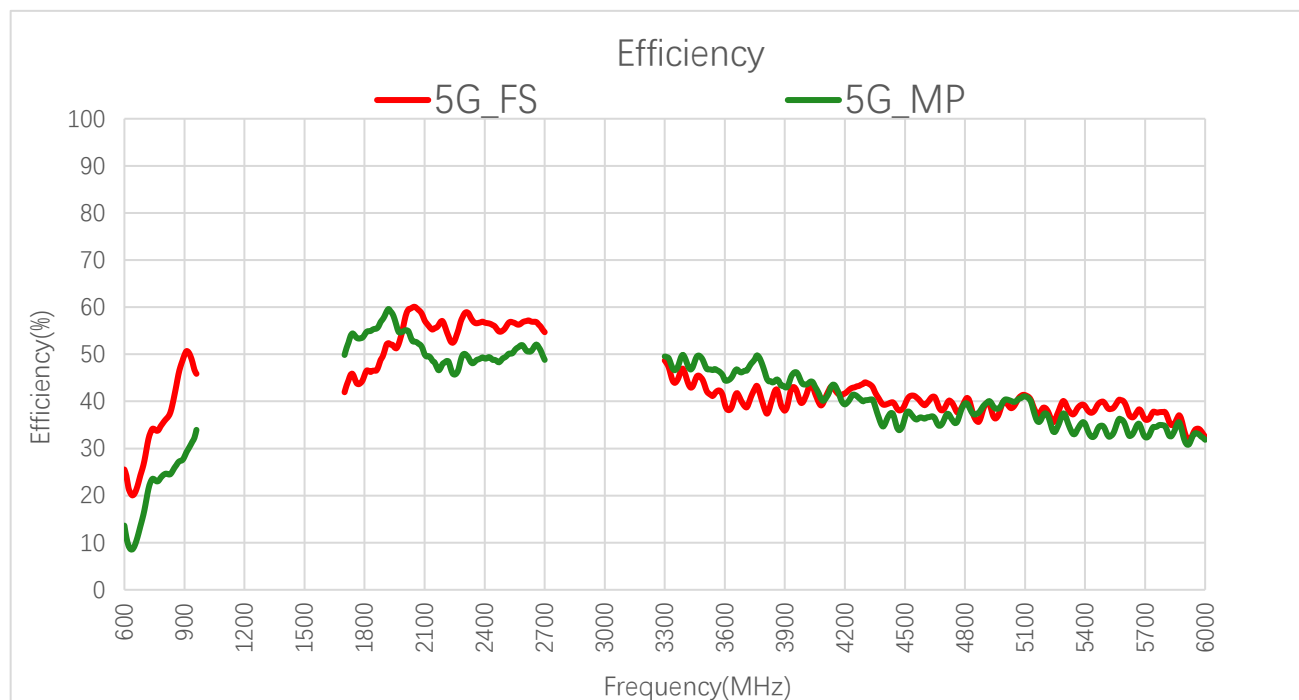


LNA Gain (dB)

Frequency (MHz)	1176	1207	1227	1248	1268	1561	1575	1602
LNA Gain (dB)	-	-	-	-	-	16.7	16.6	15.8

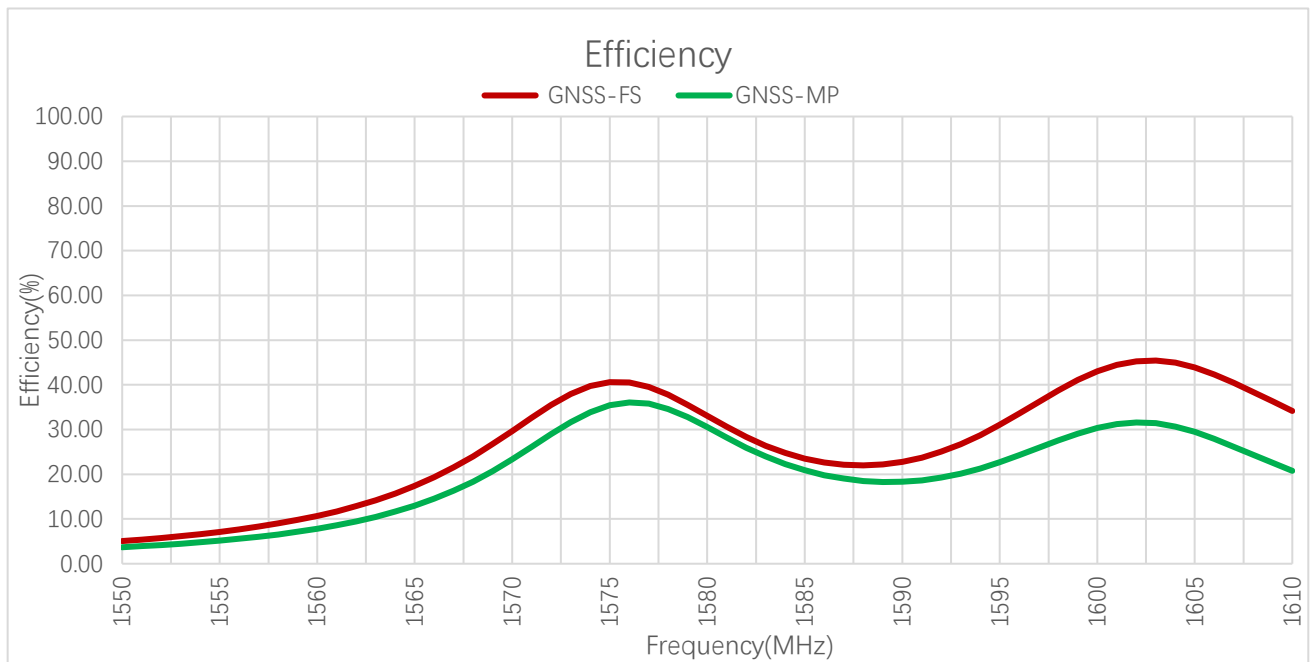
3.2. Radiation Performance Test

3.2.1. Efficiency



Efficiency (%) – 5G

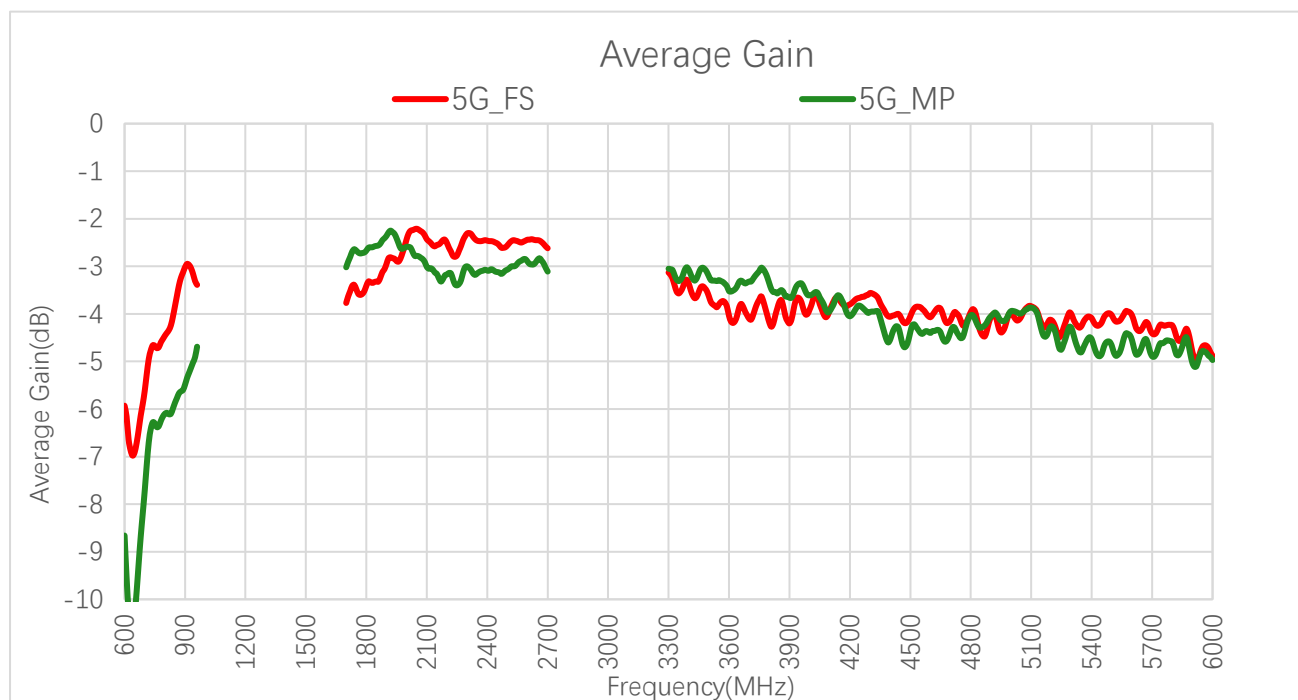
Frequency (MHz)		600	630	710	830	900	960	1440	1710	1740	1880
5G	FS	25.5	20.6	29.7	37.7	49.8	45.9	-	43.4	45.8	48.8
	MP	13.6	8.7	19.2	24.6	28.3	34.0	-	51.3	54.4	56.8
Frequency (MHz)		1950	2140	2350	2450	2600	3600	4700	5000	5500	6000
5G	FS	51.4	55.2	56.7	56.0	57.0	39.4	38.7	40.0	39.5	32.5
	MP	57.5	48.6	48.4	48.8	51.3	44.5	36.5	40.4	34.1	31.9



Efficiency (%) – GNSS

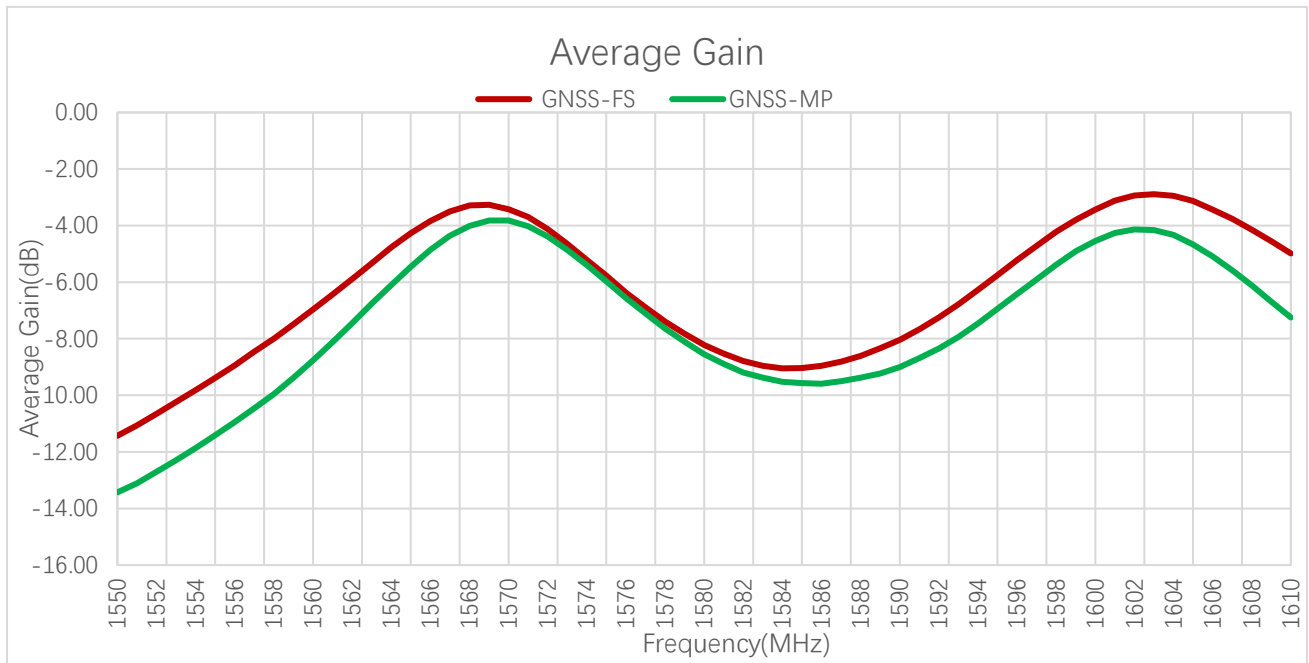
Frequency (MHz)		1176	1207	1227	1248	1268	1561	1575	1602
Efficiency (%)	FS	-	-	-	-	-	11.7	40.6	45.3
	MP	-	-	-	-	-	8.6	35.4	31.6

3.2.2. Average Gain



Average Gain (dB) – 5G

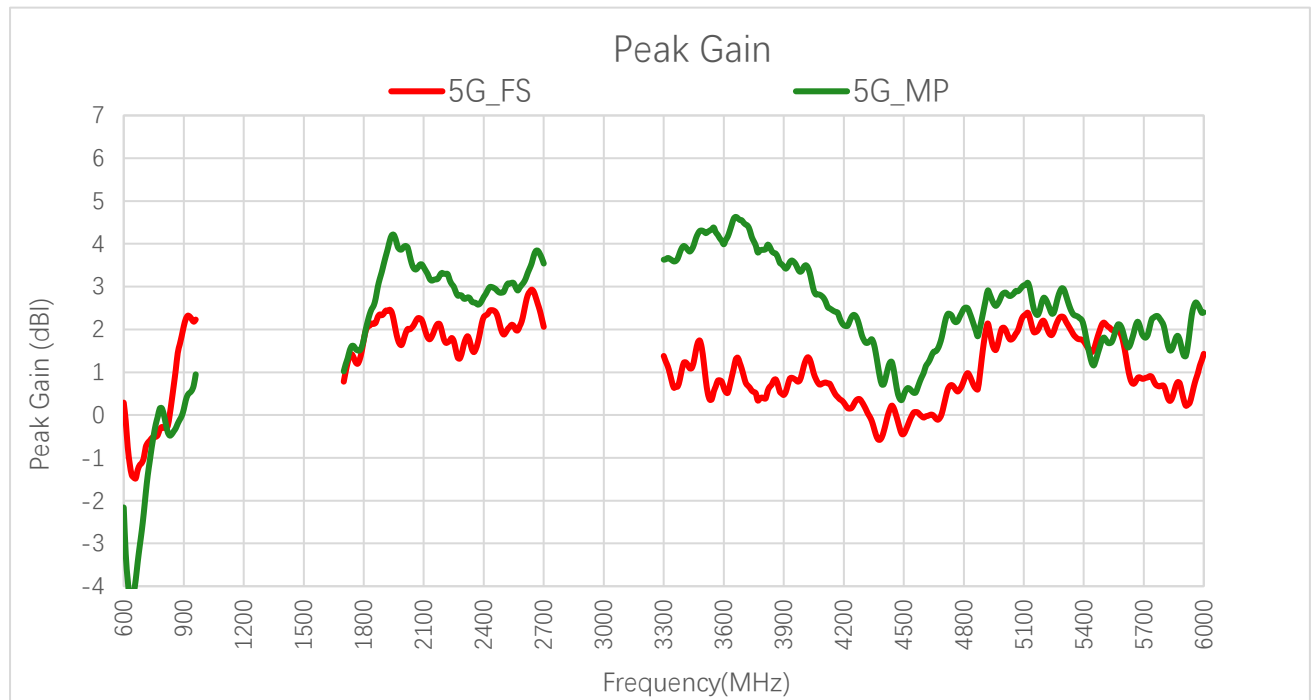
Frequency (MHz)		600	630	710	830	900	960	1440	1710	1740	1880
5G	FS	-5.9	-6.9	-5.3	-4.2	-3.0	-3.4	-	-3.6	-3.4	-3.1
	MP	-8.7	-10.6	-7.2	-6.1	-5.5	-4.7	-	-2.9	-2.6	-2.5
Frequency (MHz)		1950	2140	2350	2450	2600	3600	4700	5000	5500	6000
5G	FS	-2.9	-2.6	-2.5	-2.5	-2.4	-4.0	-4.1	-4.0	-4.0	-4.9
	MP	-2.4	-3.1	-3.2	-3.1	-2.9	-3.5	-4.4	-3.9	-4.7	-5.0



Average Gain (dB) – GNSS

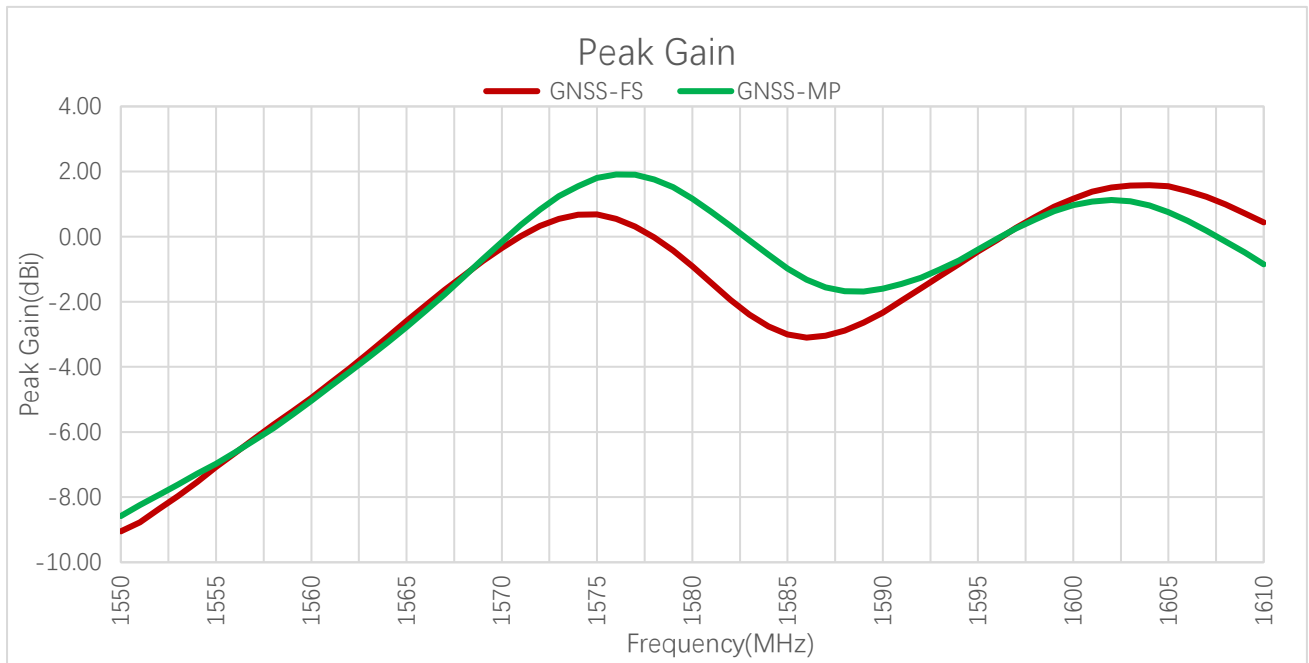
Frequency (MHz)		1176	1207	1227	1248	1268	1561	1575	1602
Average Gain (dB)	FS	-	-	-	-	-	-6.4	-5.8	-2.9
	MP	-	-	-	-	-	-8.1	-6.0	-4.1

3.2.3. Peak Gain



Peak Gain (dBi) – 5G

Frequency (MHz)		600	630	710	830	900	960	1440	1710	1740	1880
5G	FS	0.3	-1.1	-0.8	0	2.1	2.2	-	1	1.4	2.4
	MP	-2.2	-4.3	-1.8	-0.5	0.1	1	-	1.2	1.6	3.2
Frequency (MHz)		1950	2140	2350	2450	2600	3600	4700	5000	5500	6000
5G	FS	2.2	1.8	1.5	2.4	2.4	0.6	0.2	2.0	2.2	1.4
	MP	4.2	3.1	2.6	3.0	3.1	4.0	2.0	2.9	1.8	2.4



Peak Gain (dBi) – GNSS

Frequency (MHz)		1176	1207	1227	1248	1268	1561	1575	1602
Peak Gain (dBi)	FS	-	-	-	-	-	-4.5	0.7	1.5
	MP	-	-	-	-	-	-4.6	1.8	1.1

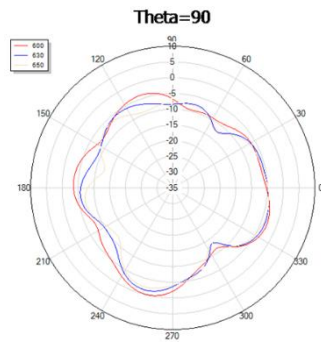
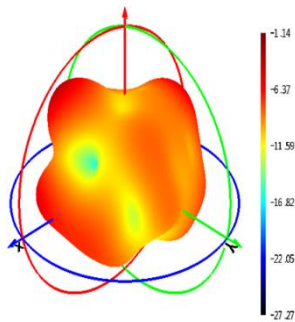
3.2.4. 3D & 2D Radiation Pattern

- Test Condition: Free space
- Test Chamber: HF-S-1

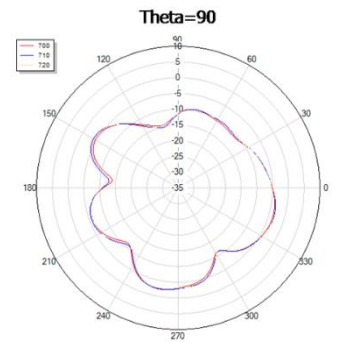
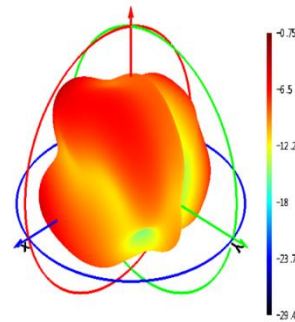


● **5G**

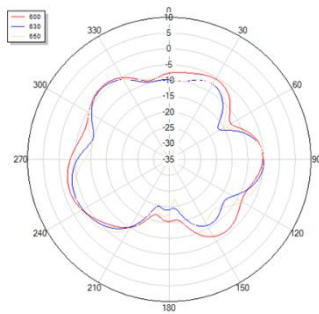
630 MHz



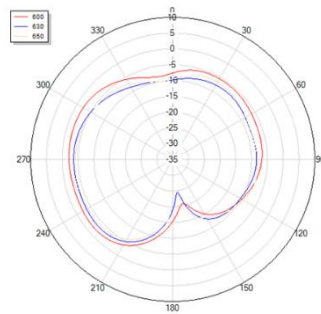
710 MHz



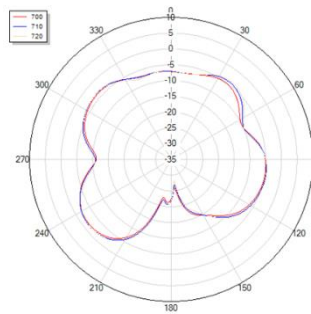
Phi=0



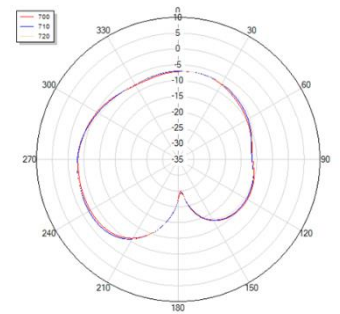
Phi=90



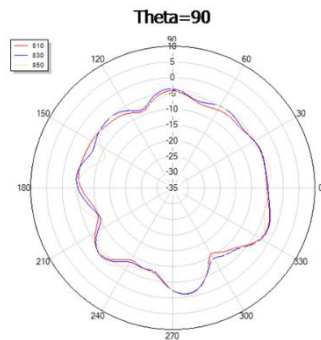
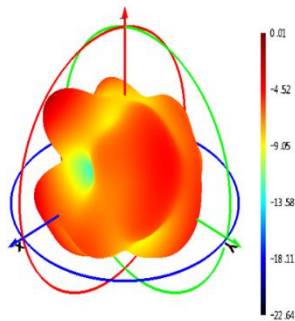
Phi=0



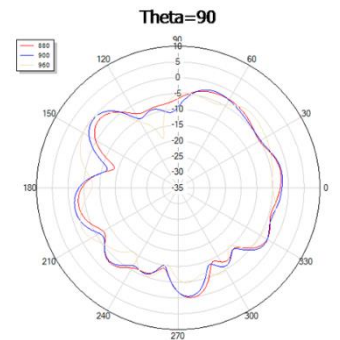
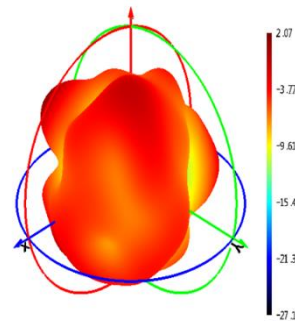
Phi=90



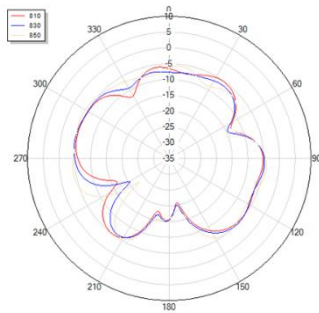
830 MHz



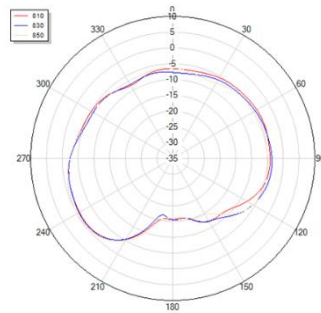
900 MHz



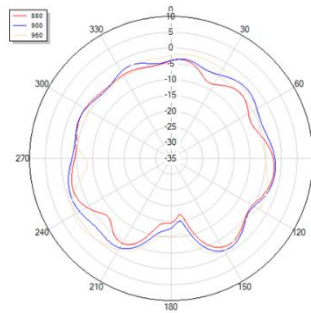
Phi=0



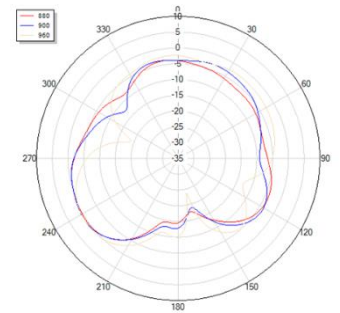
Phi=90

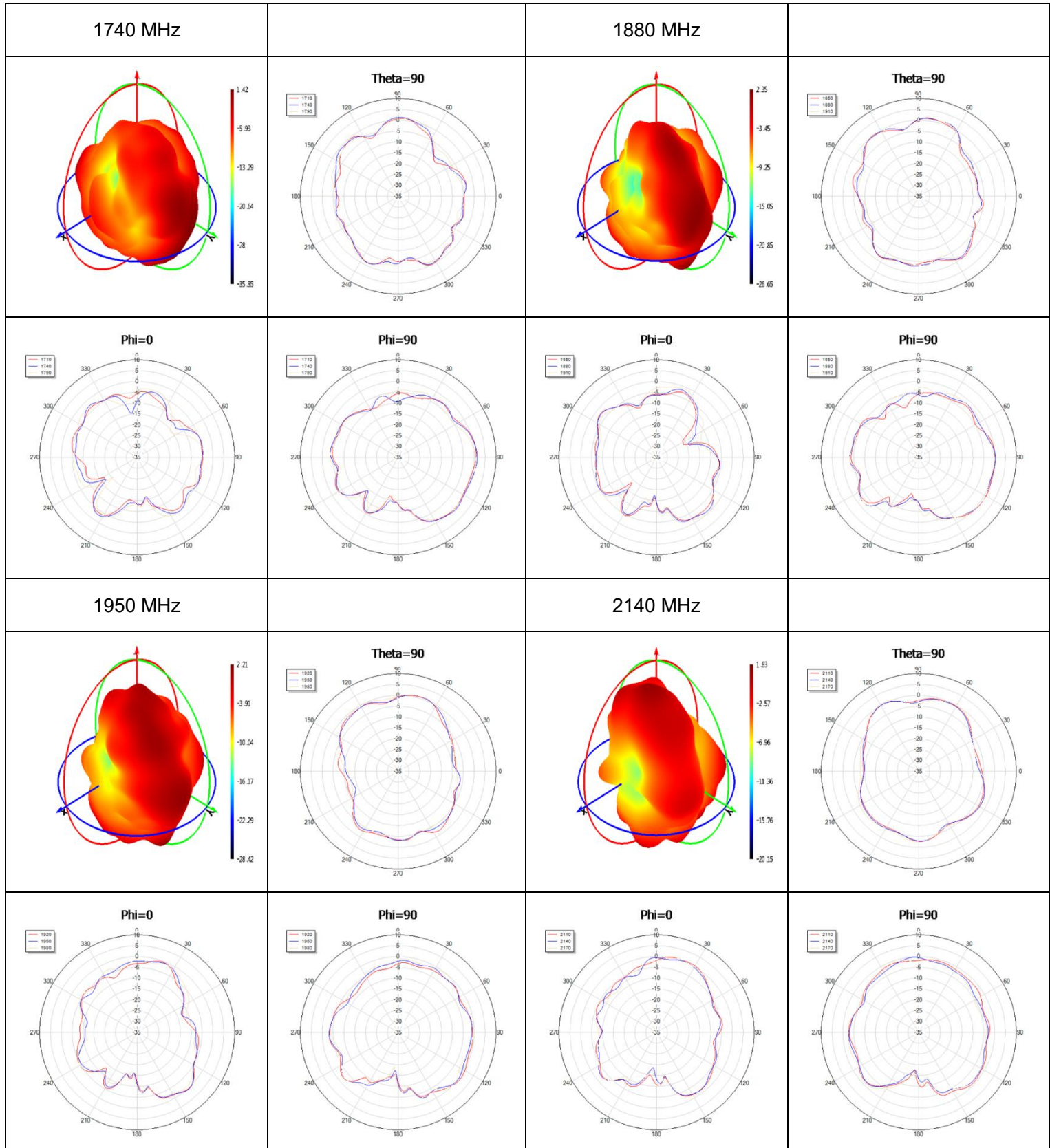


Phi=0

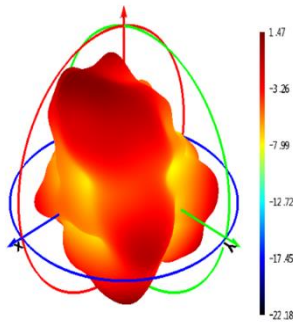


Phi=90

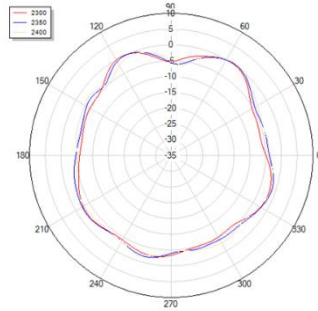




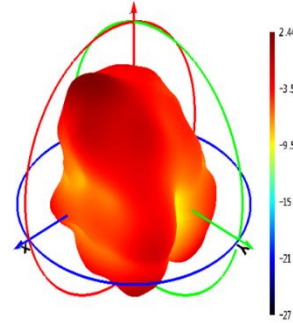
2350 MHz



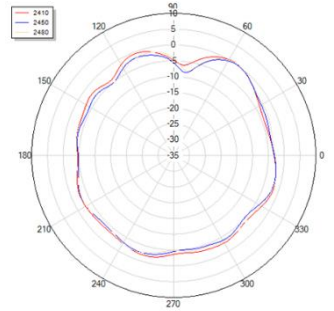
Theta=90



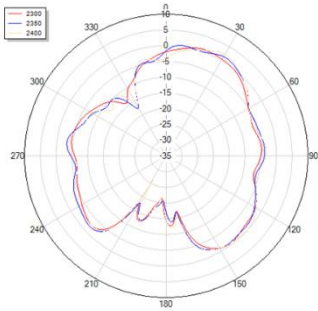
2450 MHz



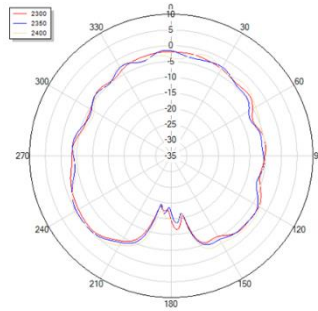
Theta=90



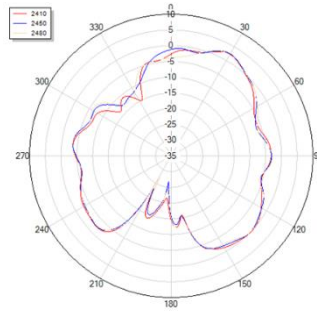
Phi=0



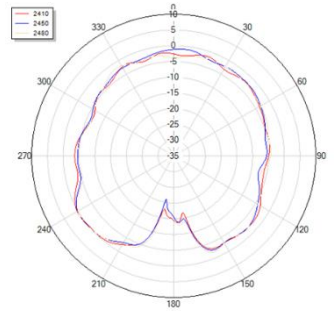
Phi=90



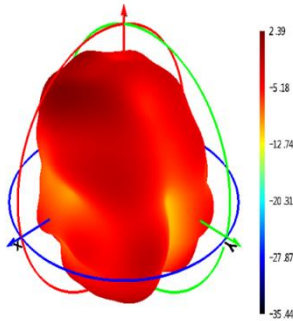
Phi=0



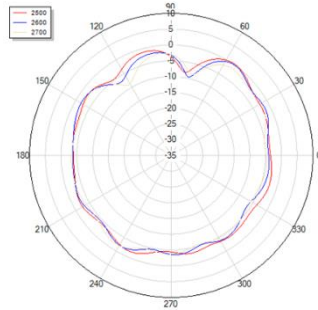
Phi=90



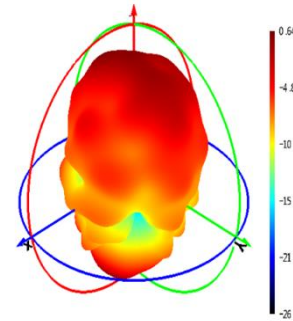
2600 MHz



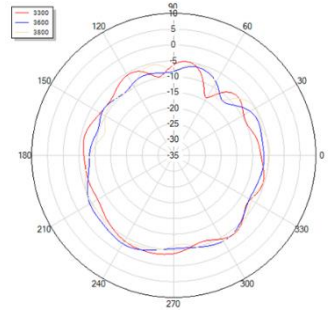
Theta=90



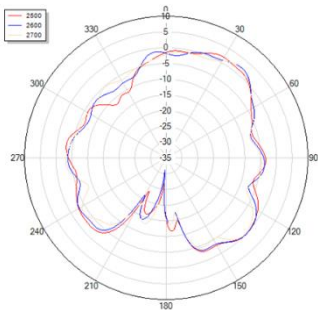
3600 MHz



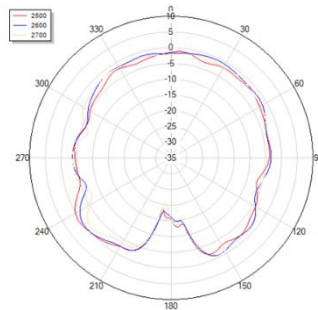
Theta=90



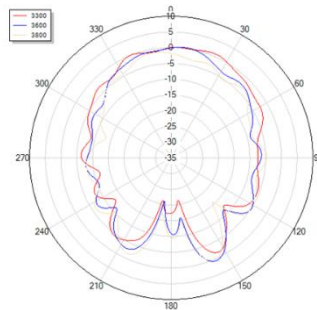
Phi=0



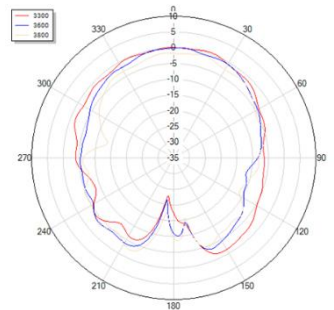
Phi=90



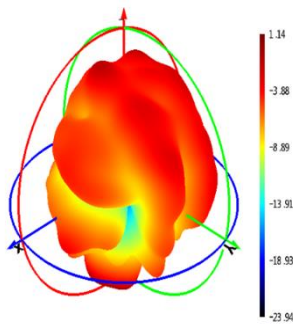
Phi=0



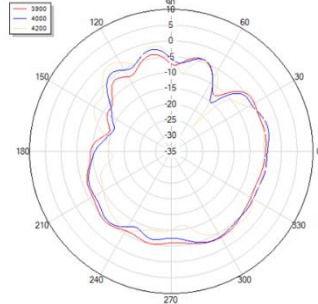
Phi=90



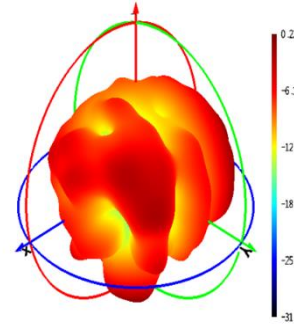
4000 MHz



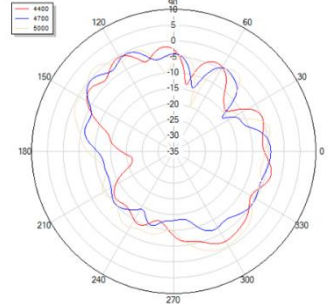
Theta=90



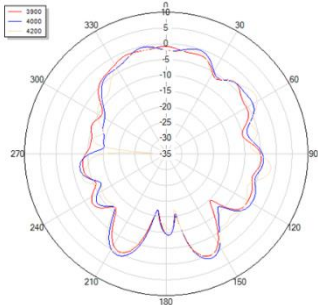
4700 MHz



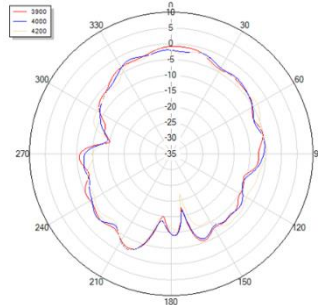
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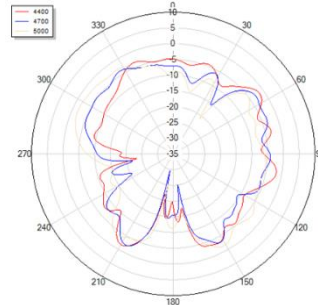
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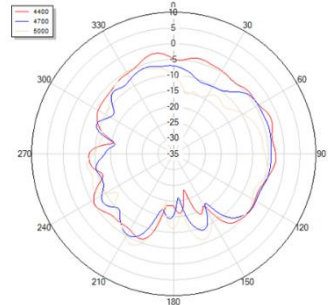
Phi=90



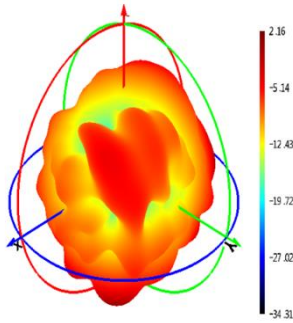
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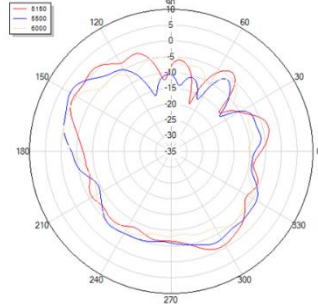
Phi=90



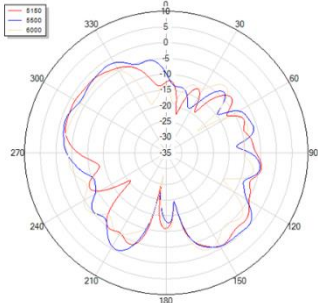
5500 MHz



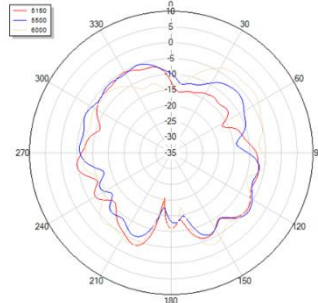
Theta=90



Phi=0

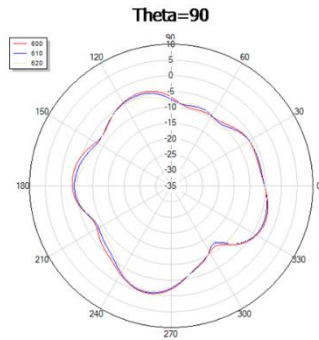
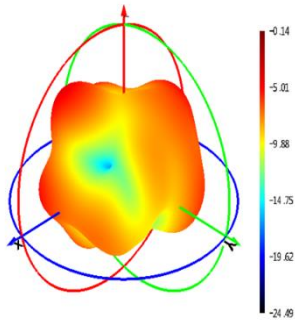


Phi=90

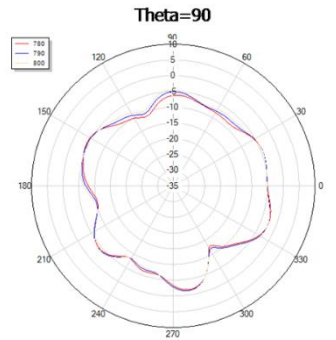
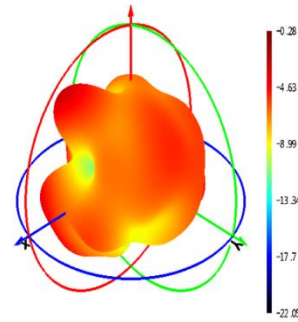


● **5G Max Peak Gain**

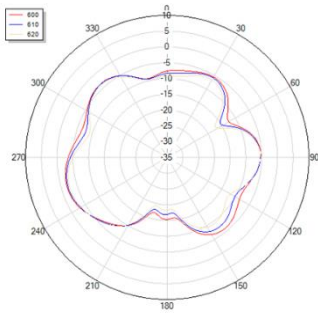
600 MHz



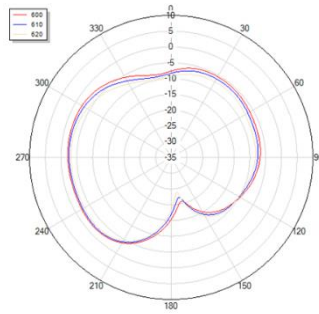
790 MHz



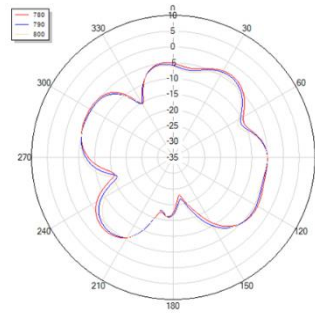
Phi=0



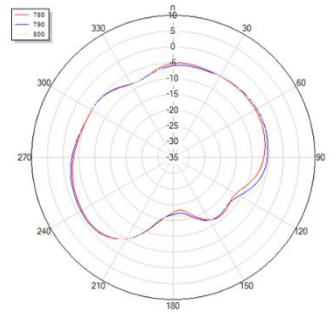
Phi=90



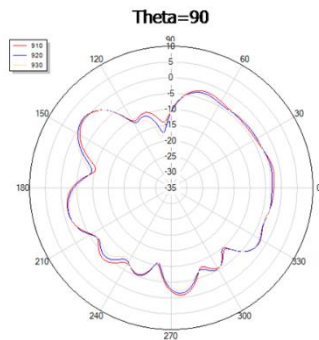
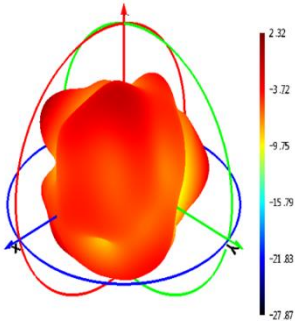
Phi=0



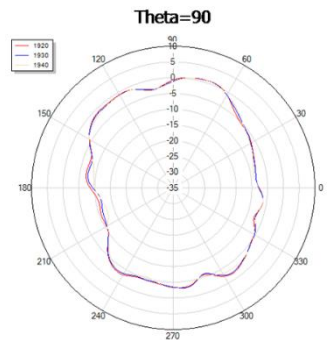
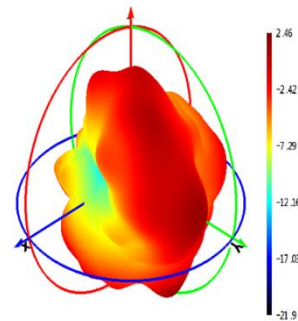
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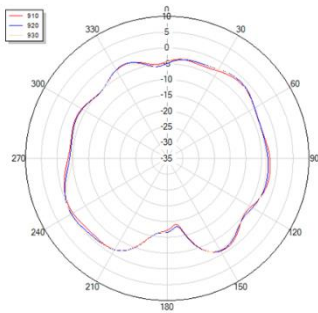
920 MHz



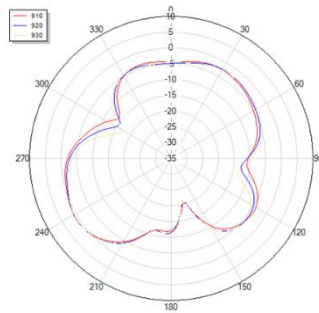
1930 MHz



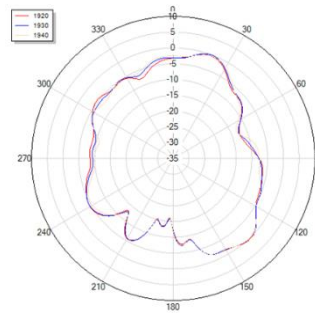
Phi=0



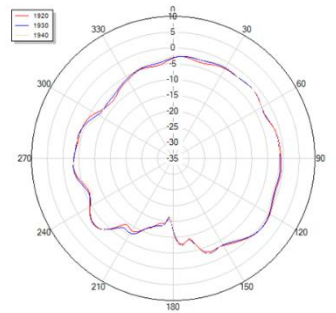
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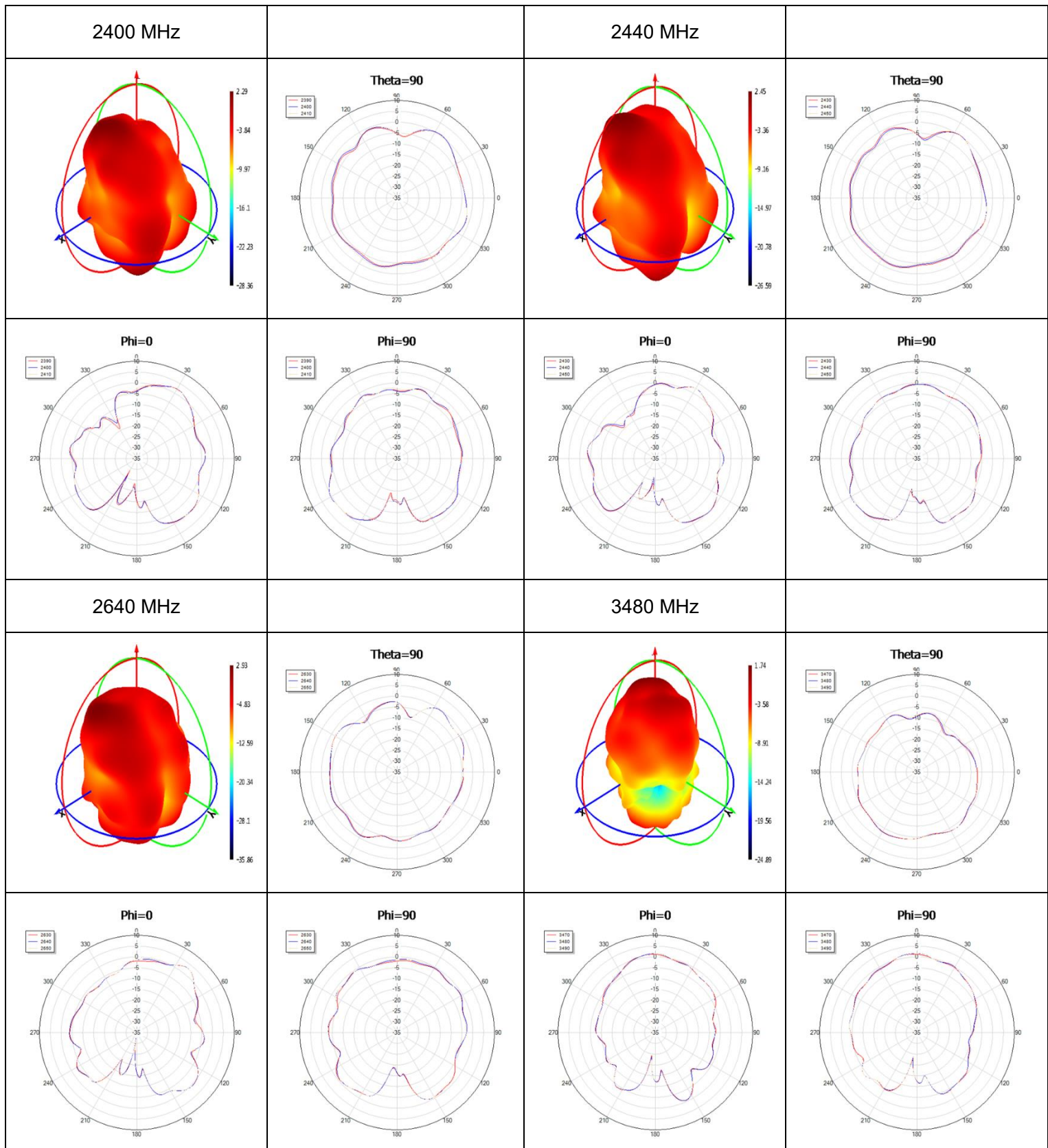


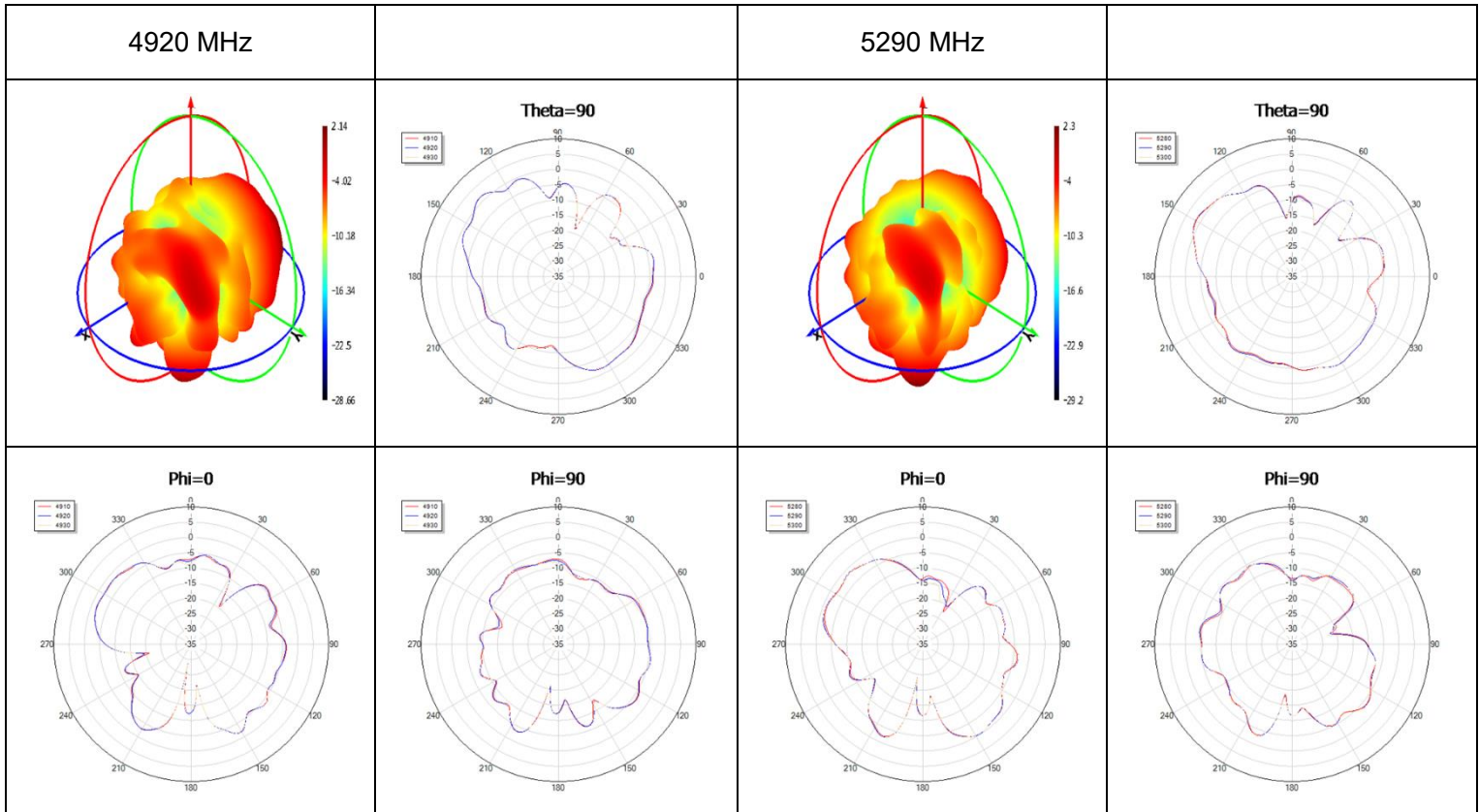
Phi=0



Phi=90

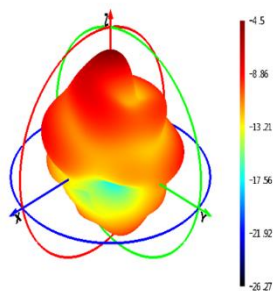




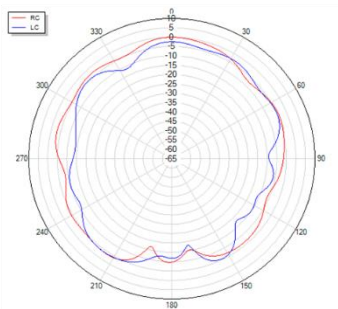


● **GNSS**

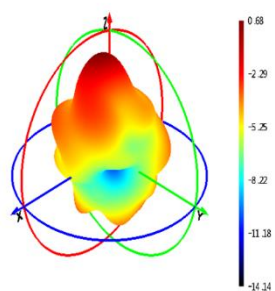
1561 MHz



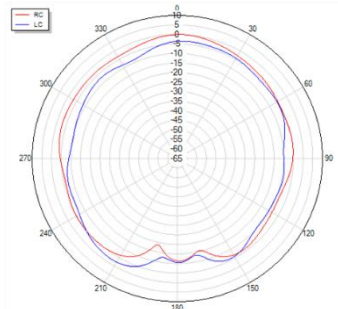
Phi=0 freq=1561MHz



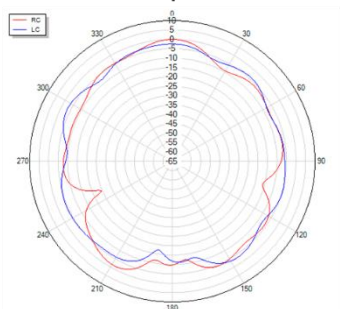
1575 MHz



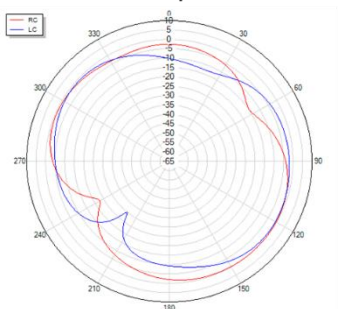
Phi=0 freq=1575MHz



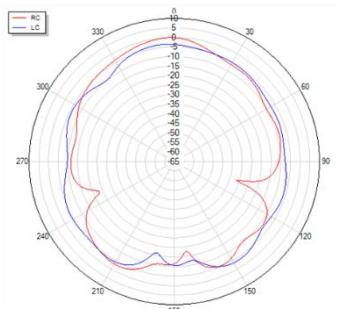
Phi=90 freq=1561MHz



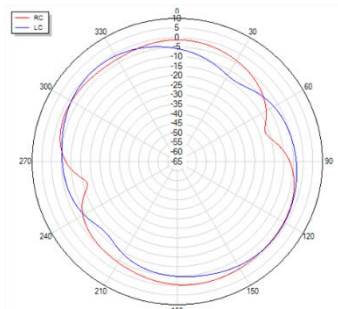
Theta=90 freq=1561MHz



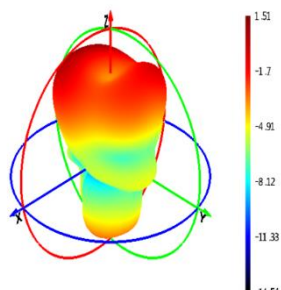
Phi=90 freq=1575MHz



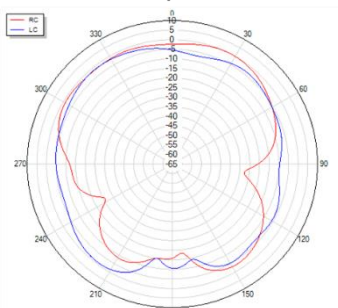
Theta=90 freq=1575MHz



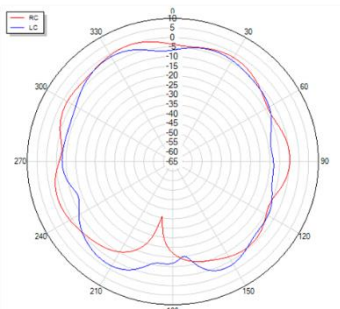
1602 MHz



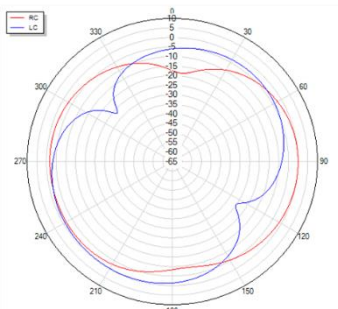
Phi=0 freq=1602MHz



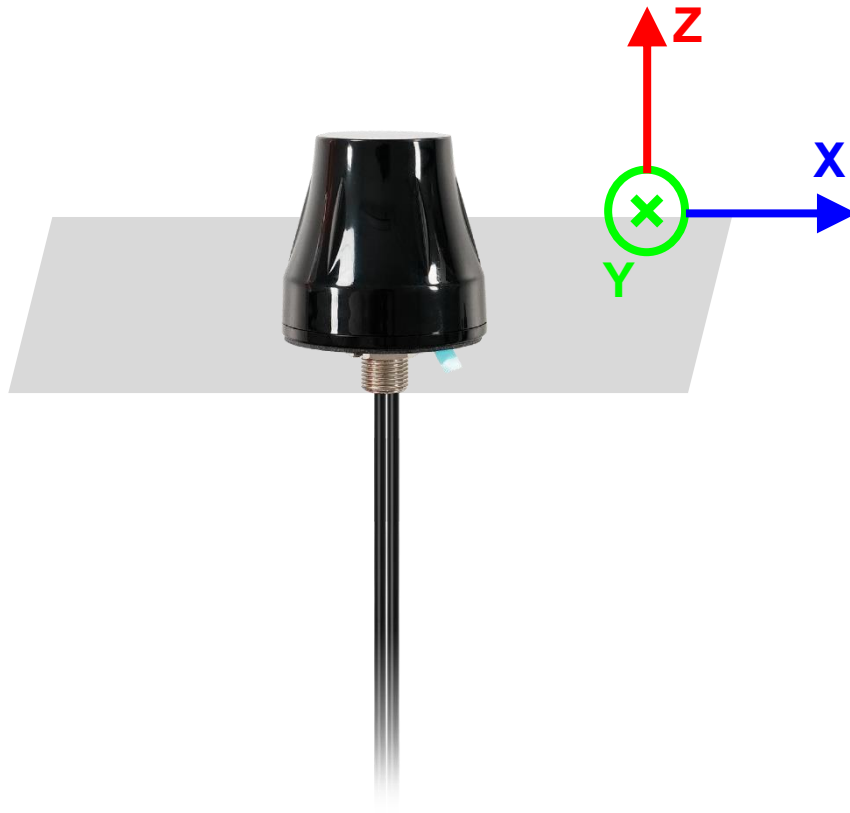
Phi=90 freq=1602MHz



Theta=90 freq=1602MHz

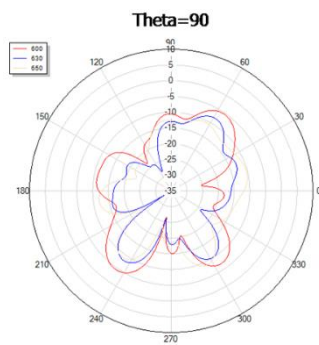
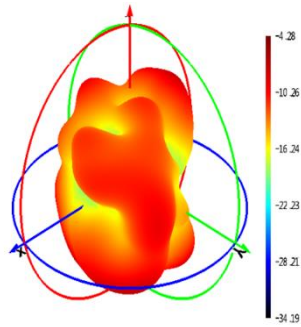


- Test Condition: On 300 mm × 300 mm Metal Plane
- Test Chamber: HF-S-1

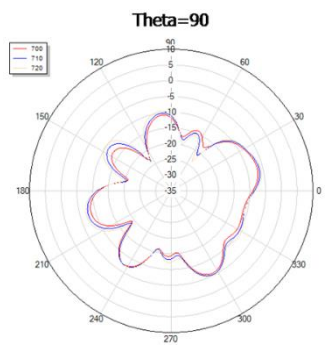
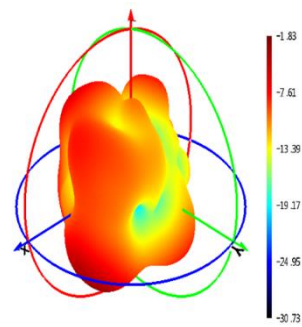


● **5G**

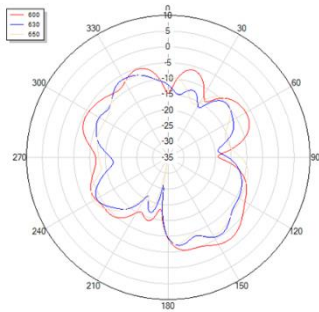
630 MHz



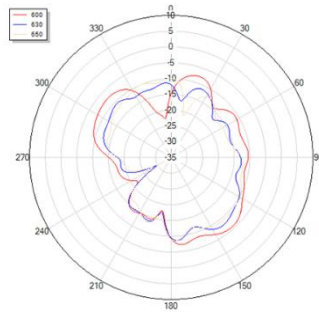
710 MHz



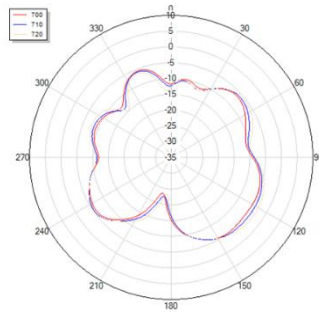
Phi=0



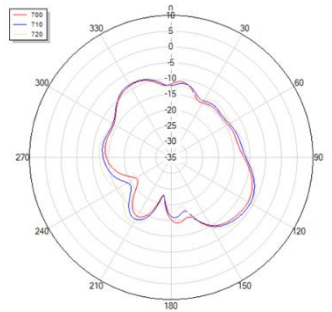
Phi=90



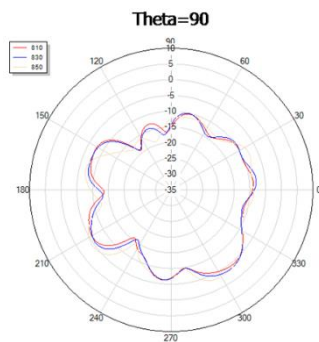
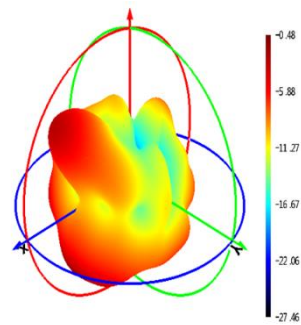
Phi=0



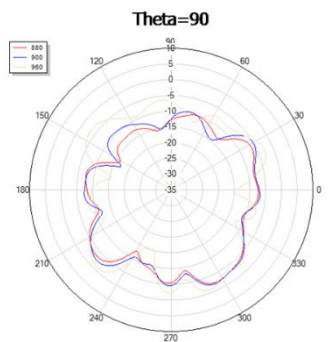
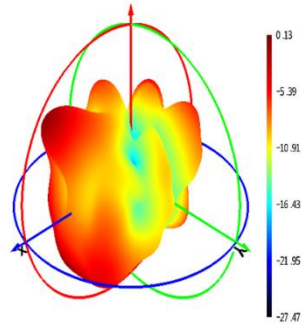
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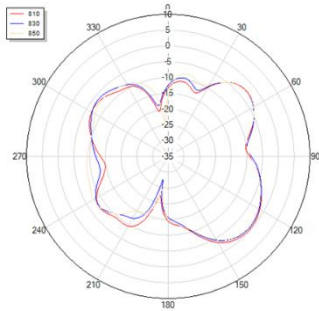
830 MHz



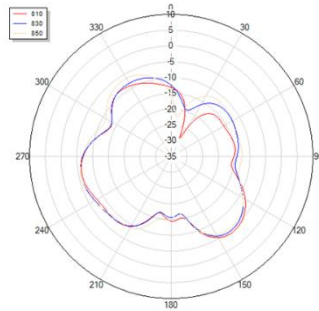
900 MHz



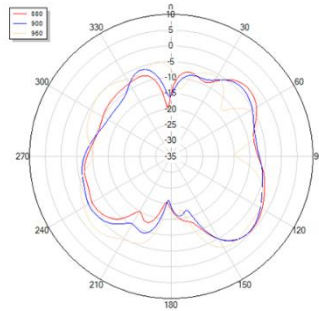
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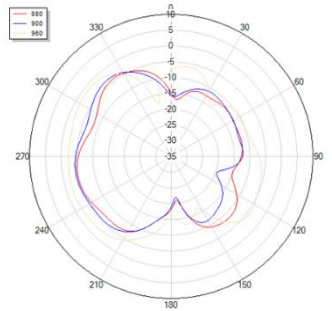
Phi=90



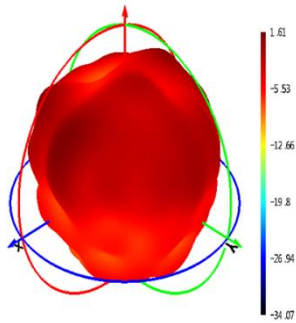
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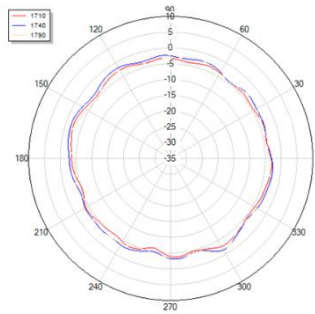
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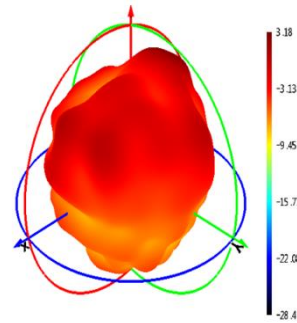
1740 MHz



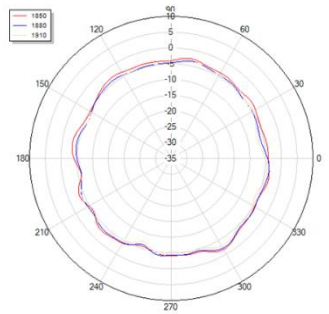
Theta=90



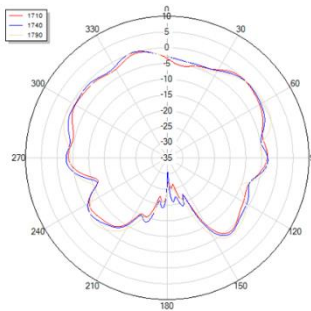
1880 MHz



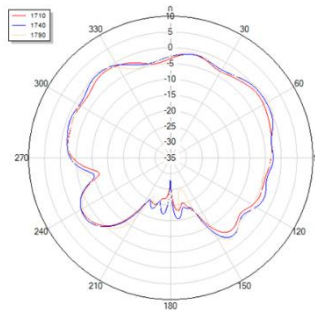
Theta=90



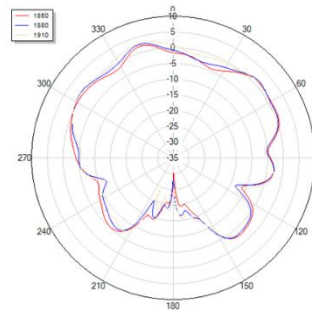
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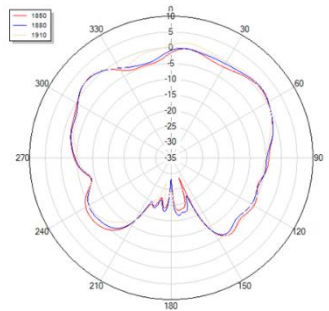
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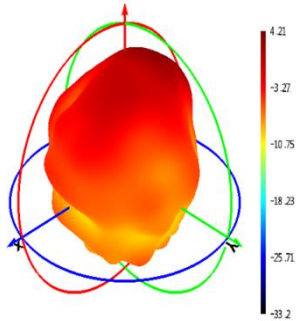
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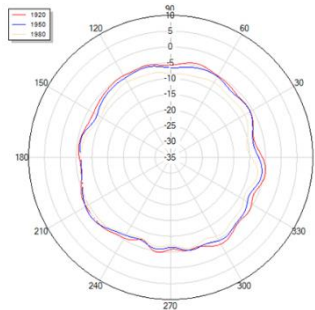
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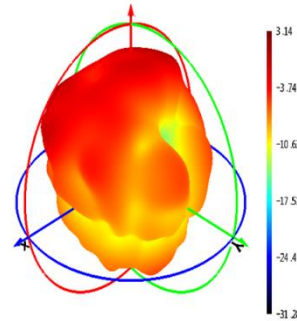
1950 MHz



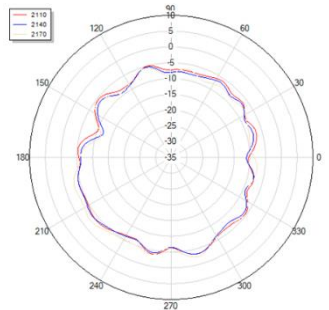
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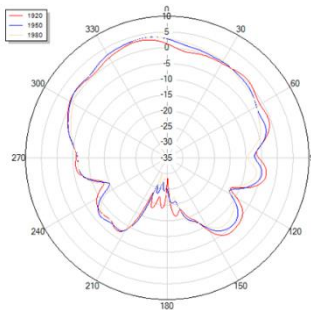
2140 MHz



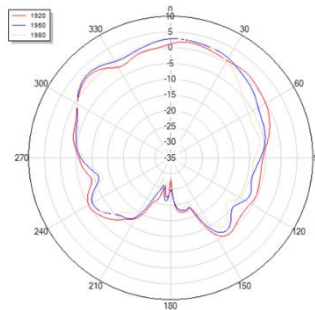
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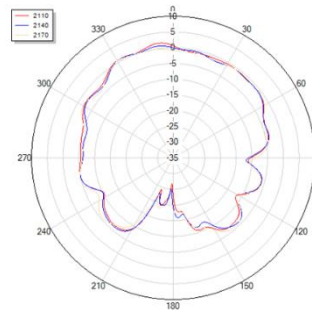
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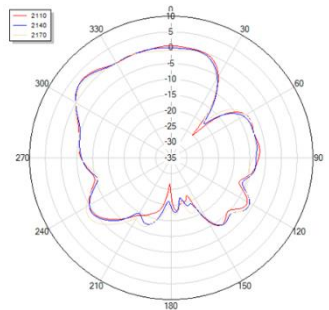
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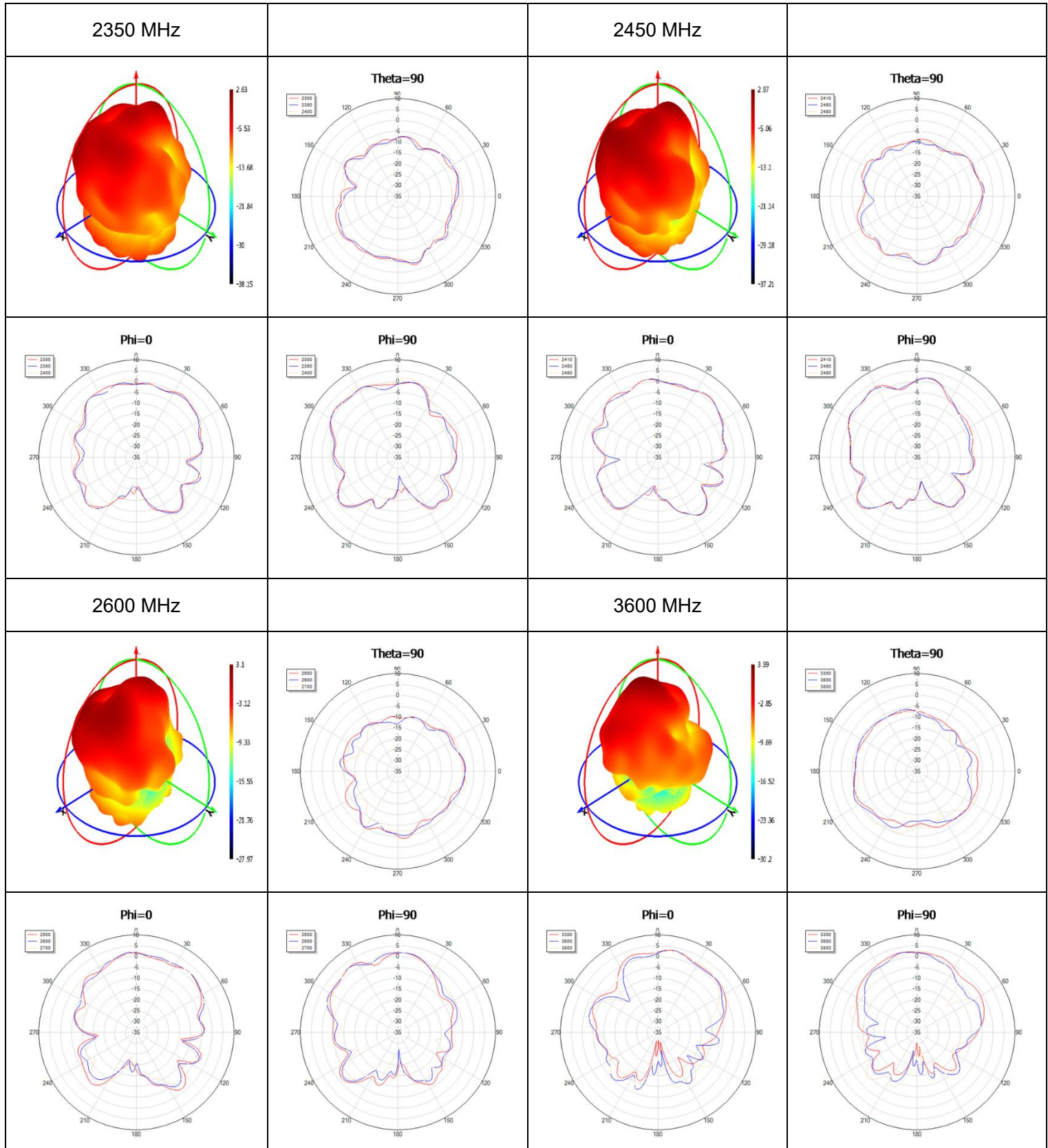


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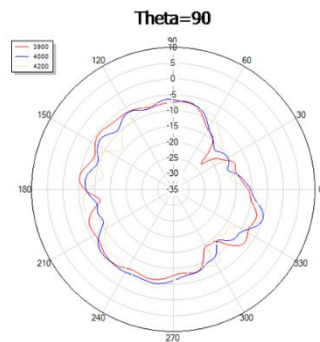
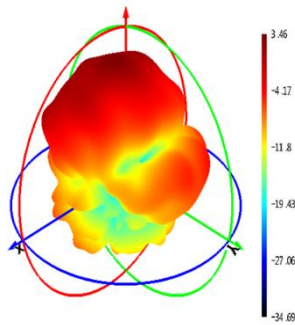


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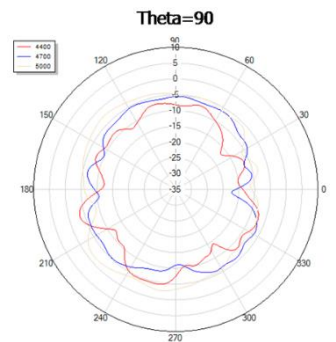
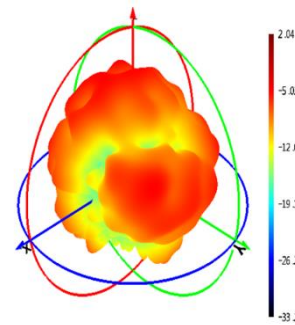




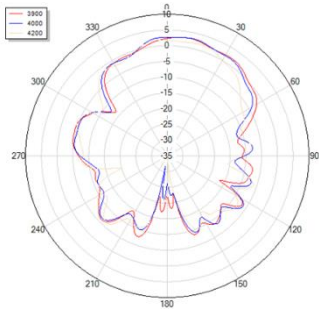
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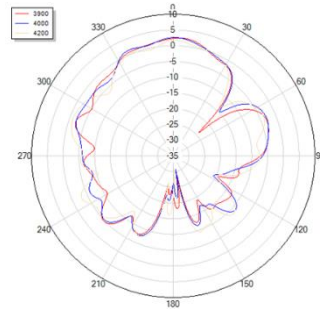
4700 MHz



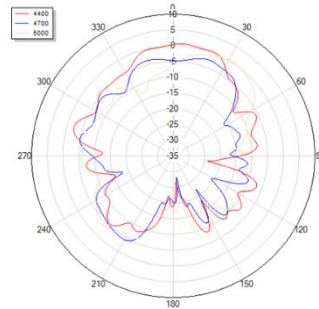
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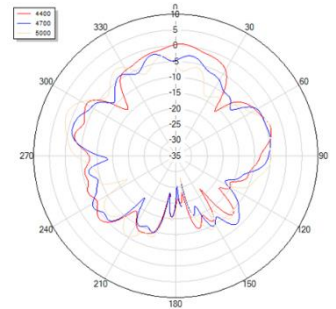
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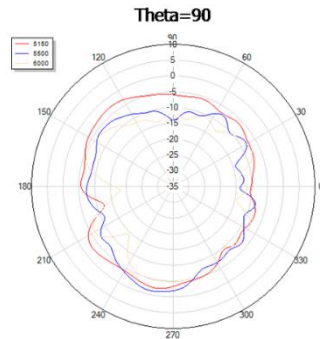
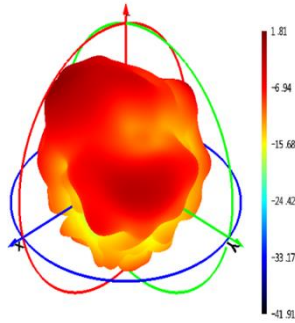
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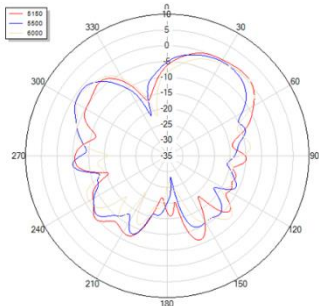
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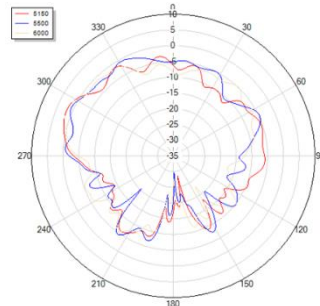
5500 MHz



Phi=0

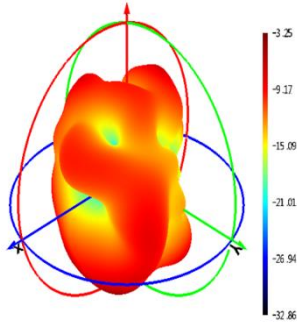


Phi=90

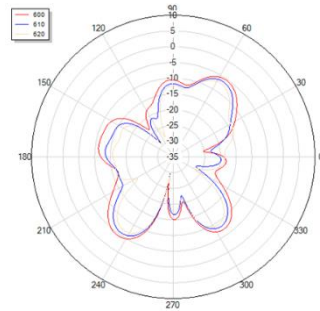


● **5G Max Peak Gain**

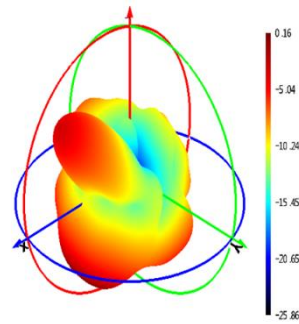
600 MHz



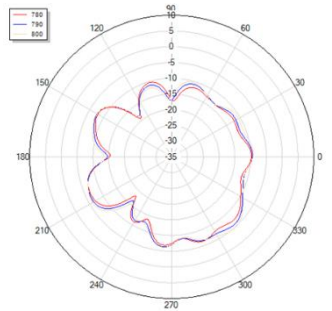
Theta=90



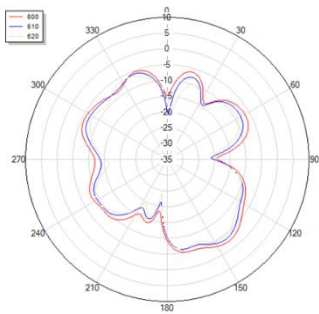
790 MHz



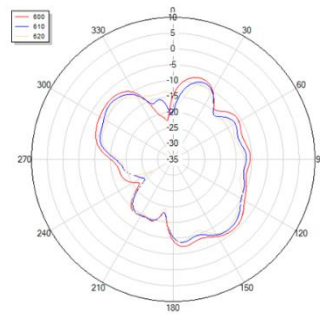
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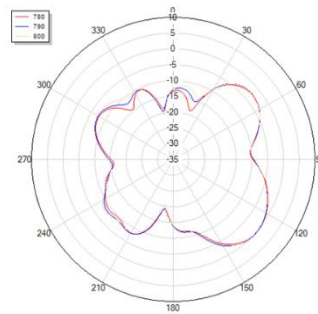
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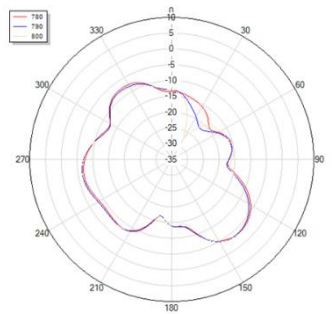
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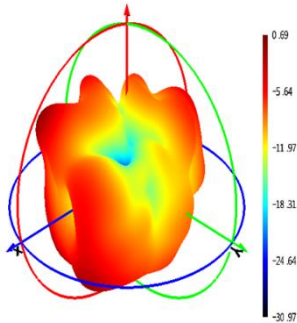
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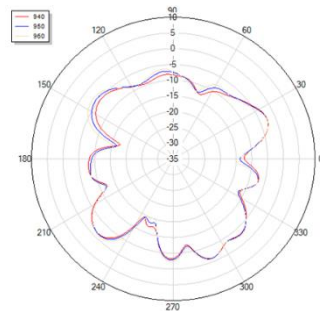
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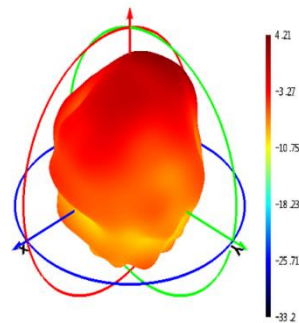
960 MHz



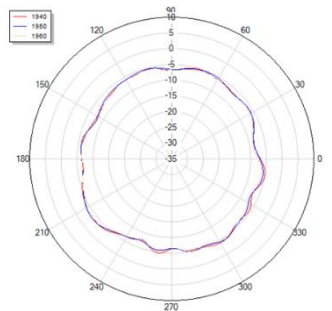
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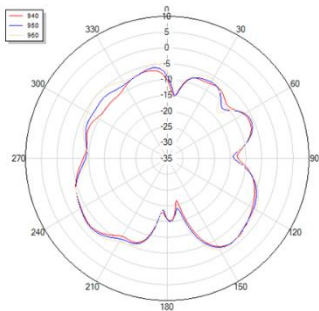
1950 MHz



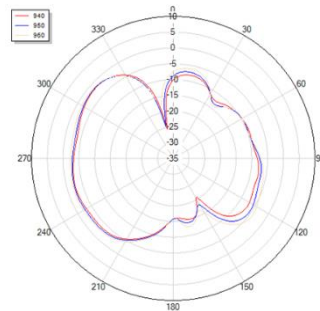
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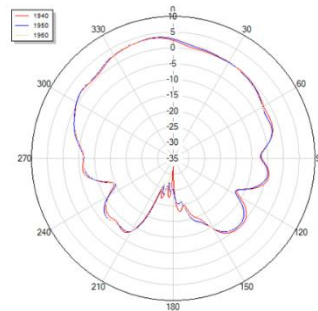
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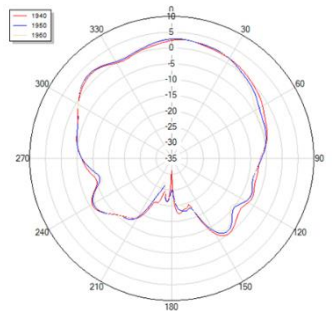
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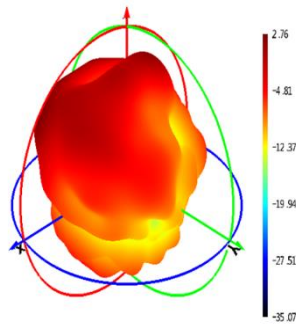
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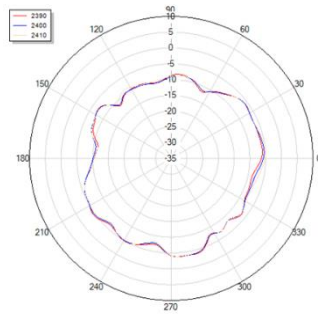
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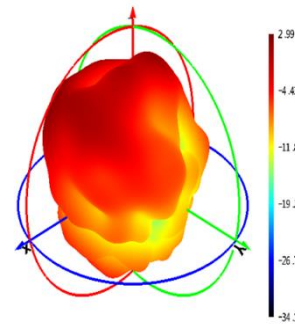
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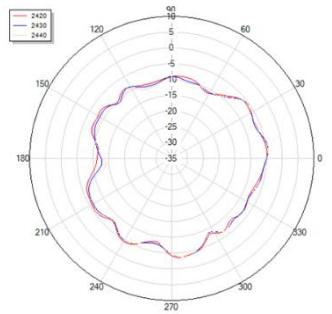
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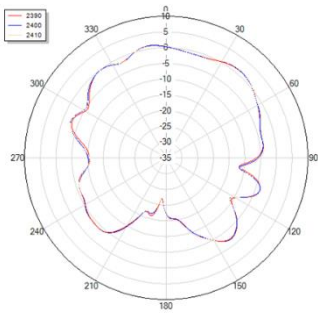
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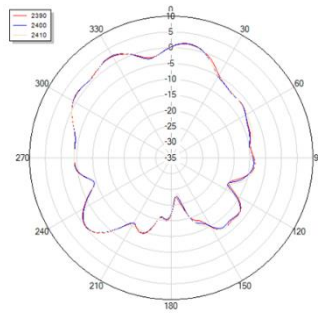
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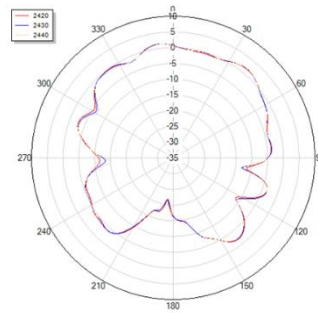
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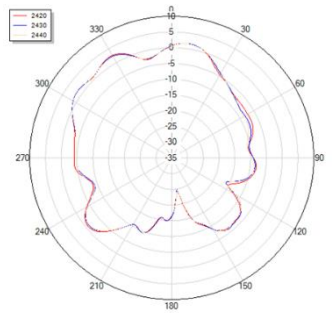
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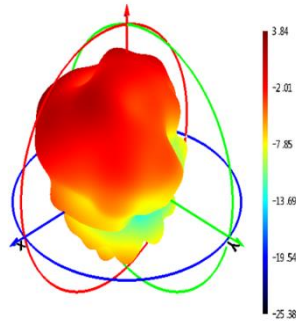
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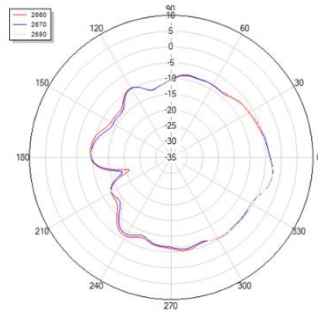
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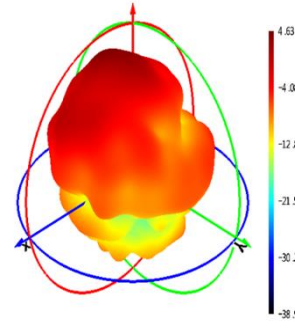
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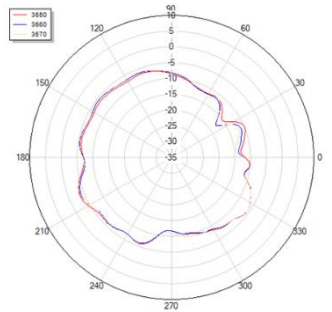
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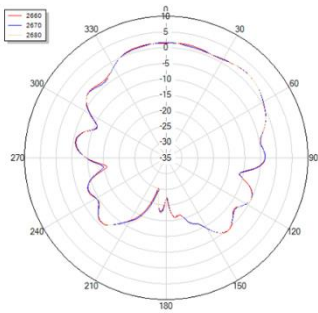
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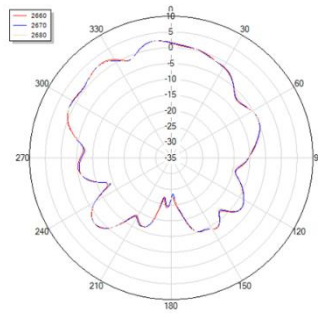
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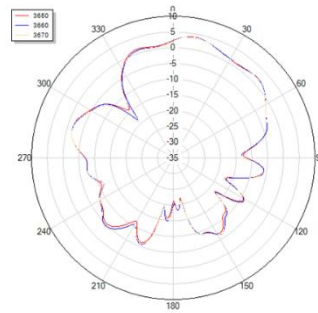
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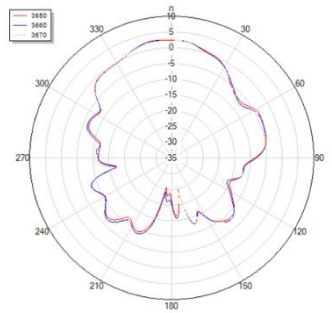
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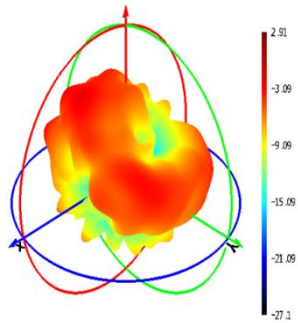
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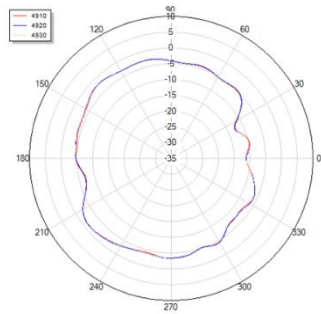
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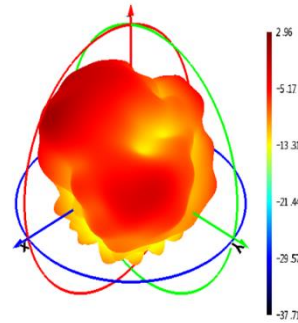
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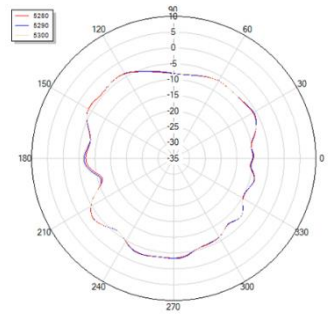
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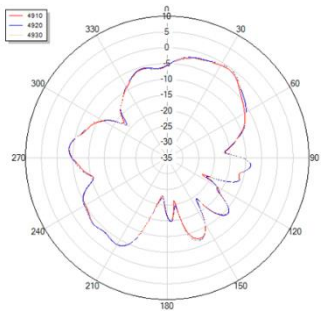
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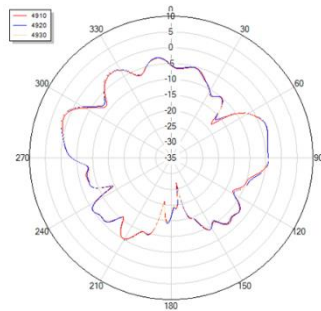
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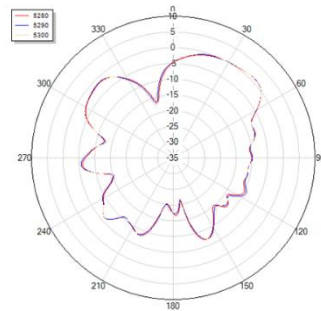
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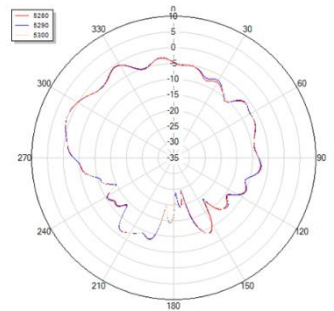
Phi=90



Phi=0

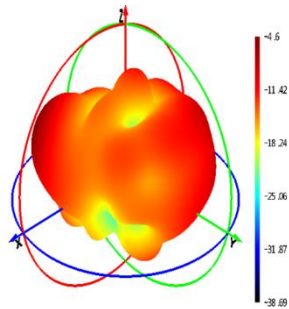


Phi=90

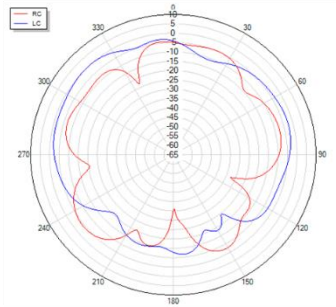


● **GNSS**

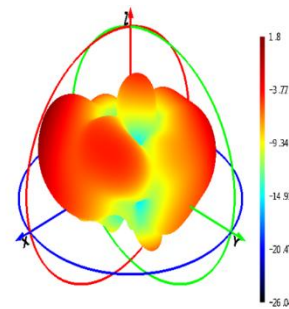
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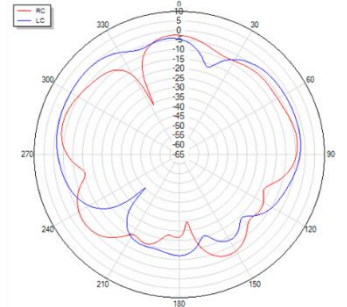
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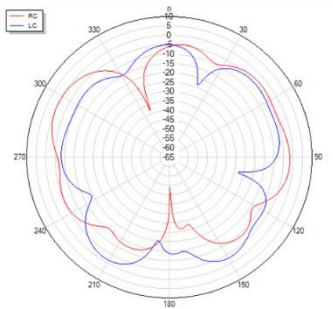
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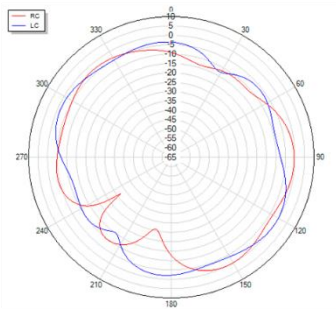
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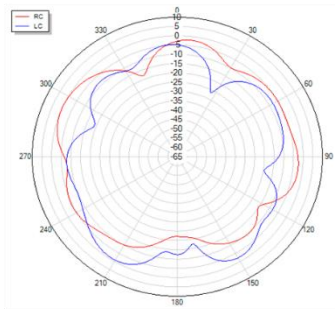
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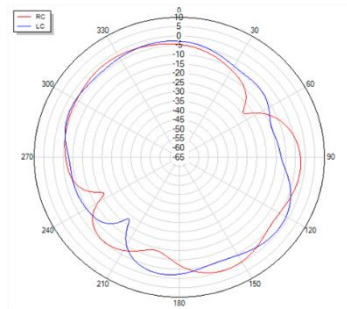
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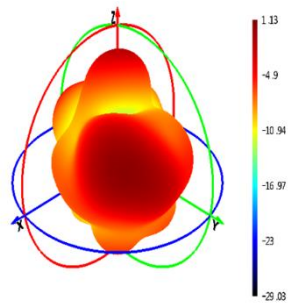
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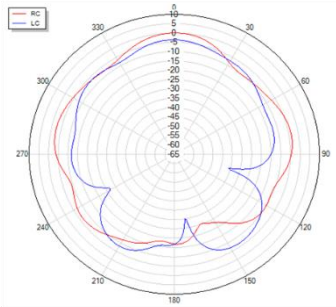
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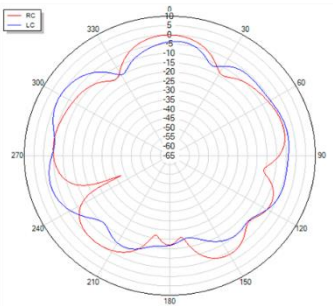
1602 MHz



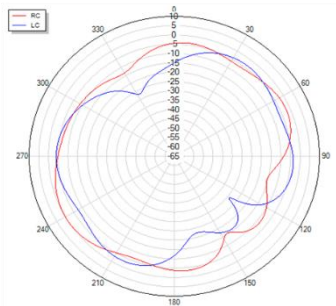
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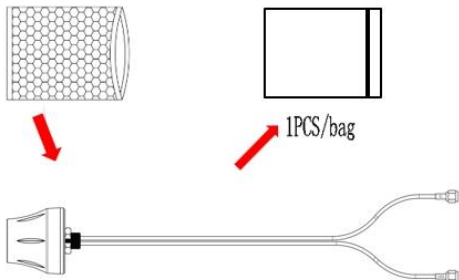
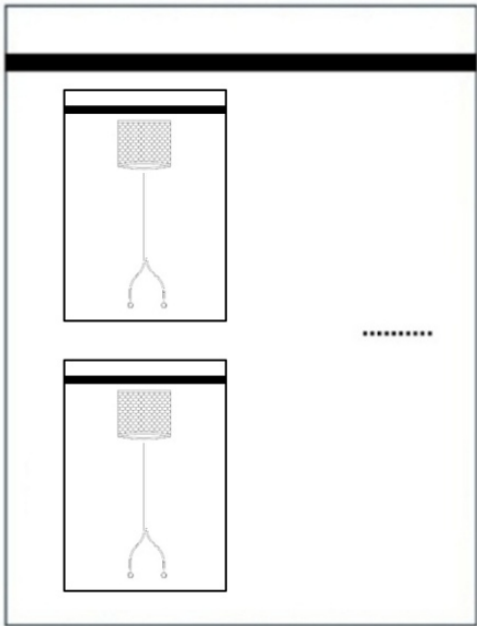
Phi=90 freq=1602MHz

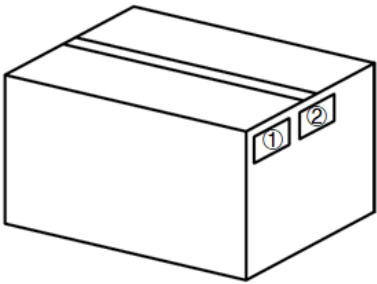
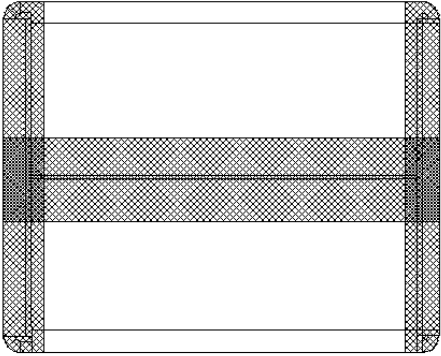


Theta=90 freq=1602MHz



4 Packaging

Step	Packaging Picture / 2D Picture	Description
1		1 antenna product head is wrapped with 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		(6 PE Bags / Carton Box) (90 Antennas / Carton Box) Estimated quantity Products that cannot fill the entire carton box are packed in a suitable size carton box. <u>Carton Size:</u> <u>L × W × H = 470 × 310 × 310 mm</u>

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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Or our local offices. For more information, please visit:

<https://www.quectel.com/contact/>.

For technical support, or to report documentation errors, please visit:

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Or email us at: support@quectel.com.

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Revision History

Version	Date	Author	Note
-	2025-07-14	Christopher Yao/ Junsen Li/ Singh Wang/ Strong Qiang/ Rainey Liao	Creation of the document
1.0	2025-07-14	Christopher Yao/ Junsen Li/ Singh Wang/ Strong Qiang/ Rainey Liao	First official release
1.1	2026-01-12	Strong Qiang	Updated the package (Chapter 4).



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