Antenna Datasheet

Product OC: YEMN926J1A
Version: 1.0
Date: 2023-05-29
Status: Preliminary

Product Name: 5G Screw Mount Antenna Box
Key Features:
Optimized for 5G and 4G Networks
Dimensions: Φ 167 * 57 mm
RoHS and REACH Compliant
IP67 & IP69K

Overview

This ultra-wide-band 5G/4G antenna box provides broad coverage from 600-6000MHz whilst backward-compatible to support 3G/2G networks as well at Cat-M and NB-IoT. The antenna is designed to work with various GND plane sizes or in free space for ease of integration with connection via 4 various cable lengths from 300-5000mm, terminated with SMA connectors. This screw mount omnidirectional antenna is easy to install with maximum durability with its IP69 KIBILAC® ASA enclosure. It is compatible with Quectel's RM520x Series modules. Quectel provides comprehensive antenna design support such as simulation, testing and manufacturing for custom antenna solutions to meet your specific application needs.

Contents

1 Specification

1.1. Electrical

Test Condition: In Free Space & On 500 × 500 mm Metal Plane

Electrical Specifications		
Frequency Range	**LMHs**	600–960 MHz, 1400–6000 MHz
	MHs	1400–6000 MHz
	GNSS	1164–1189 MHz, 1559–1606 MHz
Radiation Pattern	**LMHs & MHs**	Omni-directional
	GNSS	Directional
Polarization	**LMHs & MHs**	Linear
	GNSS	RHCP
Impedance		50 Ω
Isolation		≤ -6.7 dB
Axial Ratio (GNSS)		< 3 dB

1.1.1. LMHs

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	4.3	3.0	3.0	7.0	3.0	1.6	2.3	3.6	3.0	2.6	2.1
	MP	3.4	2.0	2.6	6.3	2.8	1.5	2.3	3.6	3.1	2.2	2.1
Max Return Loss (dB)	FS	-4.1	-6.0	-6.0	-2.5	-6.0	-12.7	-8.1	-4.9	-6.0	-6.9	-8.9
	MP	-5.2	-9.4	-6.9	-2.8	-6.4	-13.6	-8.2	-5.0	-5.8	-8.7	-9.1
AVG Eff. (%)	FS	35.7	52.5	47.5	30.7	65.0	64.9	64.5	50.6	62.9	63.0	54.2
	MP	19.7	32.7	29.4	32.9	59.9	59.5	62.3	46.1	59.5	54.8	41.6
AVG Gain (dB)	FS	-4.5	-2.8	-3.2	-5.1	-1.9	-1.9	-1.9	-3.0	-2.0	-2.0	-2.7
	MP	-7.1	-4.9	-5.3	-4.8	-2.2	-2.3	-2.1	-3.4	-2.3	-2.6	-3.8
Max Peak Gain (dBi)	FS	0.2	1.8	1.3	-0.2	4.4	2.4	2.5	2.4	5.6	5.7	4.4
	MP	0.9	4.1	4.3	3.2	7.3	5.5	5.4	4.2	6.9	6.0	5.0
VSWR	FS	≤ 7.0										
	MP	≤ 6.3										
Return Loss	FS	≤ -2.5 dB										
	MP	≤ -2.8 dB										
Peak Gain	FS	≤ 5.7 dBi										
	MP	≤ 7.3 dBi										

- LMHs: LMH1, LMH2, LMH3, LMH4 Antennas
- MHs: MH1, MH2, MH3, MH4 Antennas
- FS: In Free Space
- MP: On 500 × 500 mm Metal Plane

1.1.2. MHs

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	-	-	-	8.3	3.9	2.4	2.5	1.9	3.1	3.0	2.6
	MP	-	-	-	5.3	2.7	2.3	3.1	2.5	2.6	3.3	2.7
Max Return Loss (dB)	FS	-	-	-	-2.1	-4.6	-7.8	-7.3	-10.4	-5.8	-6.1	-6.9
	MP	-	-	-	-3.3	-6.7	-8.2	-5.8	-7.5	-7.0	-5.5	-6.8
AVG Eff. (%)	FS	-	-	-	39.9	65.3	54.4	57.6	58.0	68.0	56.4	49.0
	MP	-	-	-	22.5	56.3	48.7	51.6	53.7	66.6	54.7	50.7
AVG Gain (dB)	FS	-	-	-	-4.0	-1.9	-2.6	-2.4	-2.4	-1.7	-2.5	-3.1
	MP	-	-	-	-6.5	-2.5	-3.1	-2.9	-2.7	-1.8	-2.6	-2.9
Max Peak Gain (dBi)	FS	-	-	-	1.0	3.8	1.7	2.6	3.7	5.5	5.1	5.8
	MP	-	-	-	1.7	6.4	5.2	4.9	5.6	7.2	6.1	8.2
VSWR	FS	≤ 8.3										
	MP	≤ 5.3										
Return Loss	FS	≤ -2.1 dB										
	MP	≤ -3.3 dB										
Peak Gain	FS	≤ 5.8 dBi										
	MP	≤ 8.2 dBi										

- LMHs: LMH1, LMH2, LMH3, LMH4 Antennas
- MHs: MH1, MH2, MH3, MH4 Antennas
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- MP: On 500 × 500 mm Metal Plane

1.1.3. GNSS

Band / Frequency (MHz)	GPS L5 GALILEO E5a BEIDOU B2a-B2I QZSS L5 IRNSS L5	GALILEO E5b BEIDOU B2b	GPS L2 QZSS L2C	GLONASS G2	BEIDOU B3	BEIDOU B1I	GPS L1 GALILEO E1 BEIDOU B1C QZSS L1	GLONASS G1
	1176	1207	1227	1248	1268	1561	1575	1602
VSWR	1.48					1.63	1.54	1.42
Return Loss (dB)	-14.2					-12.3	13.4	-15.2
Efficiency (%)	85					53	66	45.6
AVG Gain (dB)	-0.9					-3.37	-2.47	-4.03
Peak Gain (dBi)	4.79					2.88	3.84	2.26
Axial Ratio(dB)	2.44					1.2	0.79	0.77

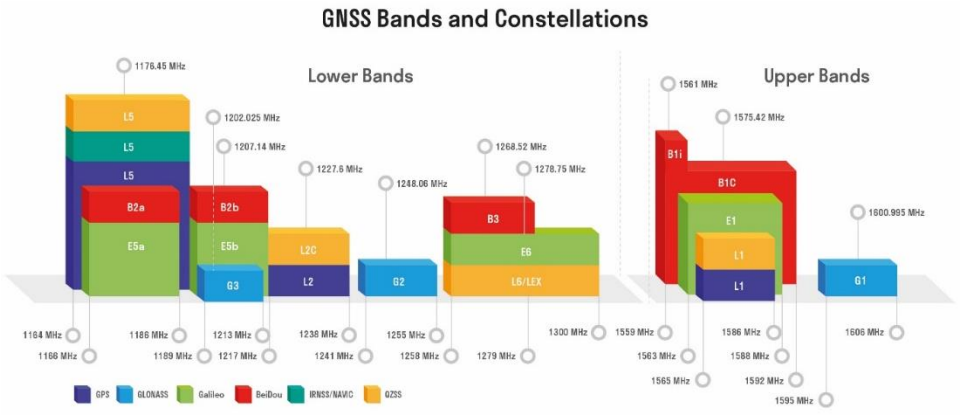
LNA Electrical	
LNA Gain	22±2 dB
Noise Figure	≤ 2.5dB
Output VSWR	< 2.0
Filter Out-of-Band Attenuation	60 dB f0 ±100 MHz f0 (1164-1189 MHz, 1559-1606 MHz)
Working Voltage	3-6.5 V
Working Current	18.8±3 mA
Impedance	50 Ω

1.2. Supported Bands

5G NR/ LTE/ LTE-Advanced/ WCDMA/ HSPA/ HSPA+/ GPRS/ GSM/ NB-IoT					
Band	**Frequency (MHz)**	**Uplink (MHz)**	**Downlink (MHz)**	**LMHs**	**MHs**
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)**	**LMHs**	**MHs**
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		√	√
Note: Covered √ means efficiency > 20%					

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)	
	√	√	-	-	
BEIDOU	**B1I** Centre 1561.098 (1559–1564)	**B1C (BeiDou-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)				
	√				

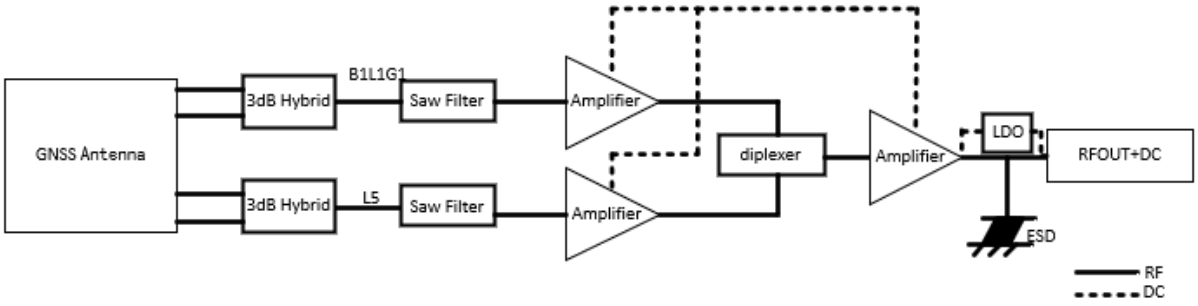


1.3. Mechanical, Environment & Storage

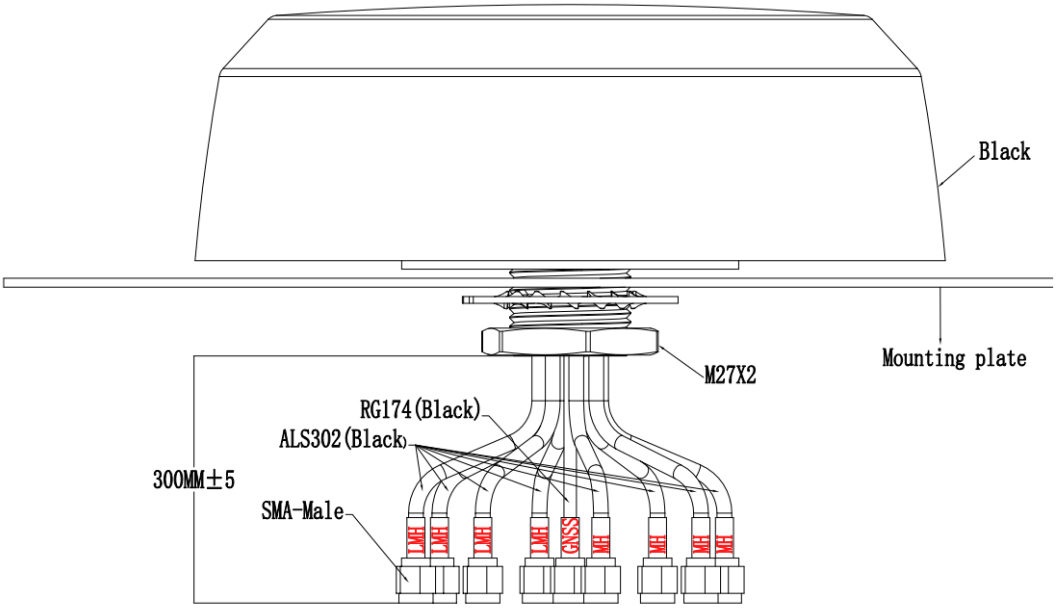
Mechanical		
Antenna Size		Φ 167 * 57 mm
Casing Material & Color		ASA & Black
Cable Type & Length	**LMHs & MHs**	ALS302 Black & 300 mm
	GNSS	RG174 Black & 300 mm
Connector Type		SMA Male
Weight		Typ. 550 g
Mounting Type		Screw (M27 Nut)
Environmental		
Operation Temperature		-40 °C to +85 °C
Ingress Protection (IP) Rating		IP67 (After Installation) IP69K (After Installation)
Impact Protection (IK) Rating		IK09
RoHS & REACH Compliant		Yes
Storage		
Storage Temperature		18°C -27°C
Humidity		30%-80%RH
Storage Place		Away from corrosive gas and direct sunlight
Packing		Antennas should be stored in unopened sealed manufacturer's plastic packaging

- LMHs: LMH1, LMH2, LMH3, LMH4 Antennas
- MHs: MH1, MH2, MH3, MH4 Antennas
- FS: In Free Space
- MP: On 500 × 500 mm Metal Plane

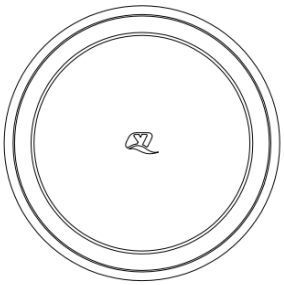
1.4. Block Diagram (Active Antenna)



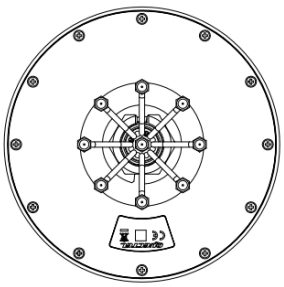
2 Drawing



- **LMHs can be connected arbitrarily, and 4 MHs can be connected arbitrarily.**
- **Recommended assembly hole diameter: 28.0 mm.**
- **Recommended mounting plane thickness: 3.0 mm.**



Top View



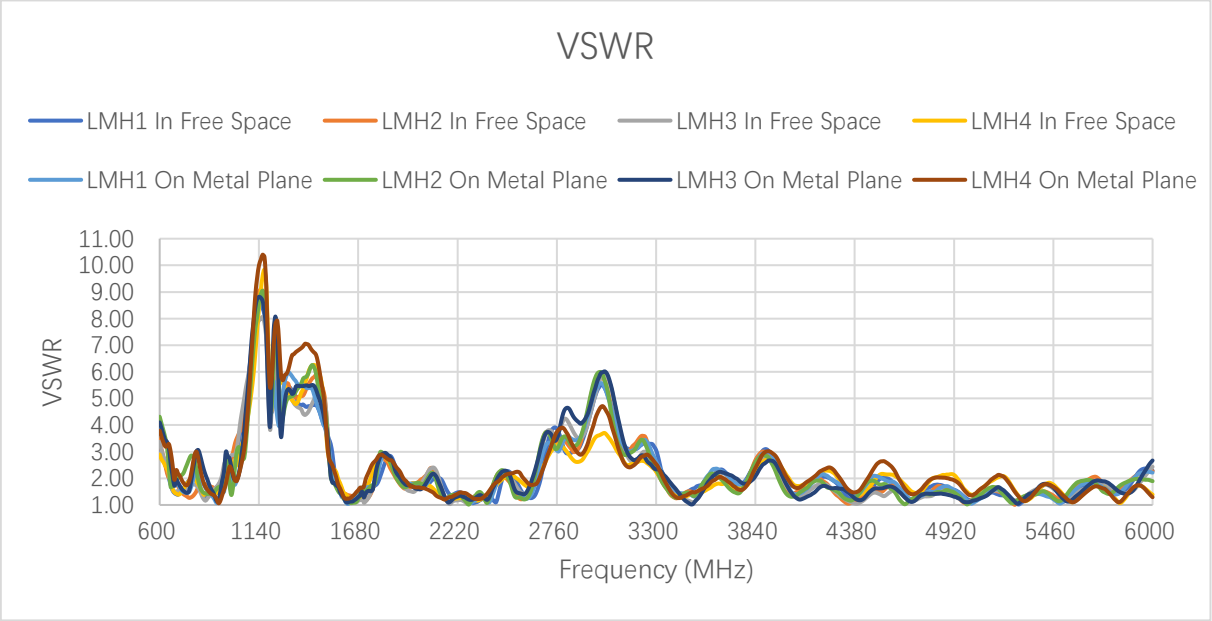
Bottom View

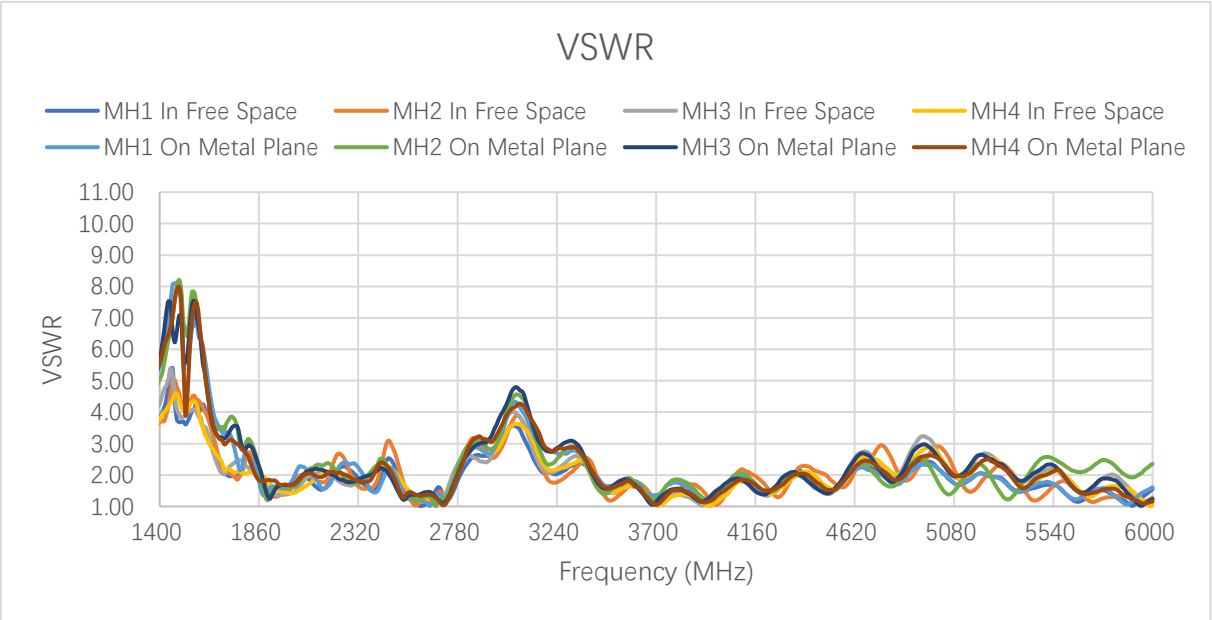
SMA

3 Detail Performance

3.1. S-Parameter Test

3.1.1. VSWR





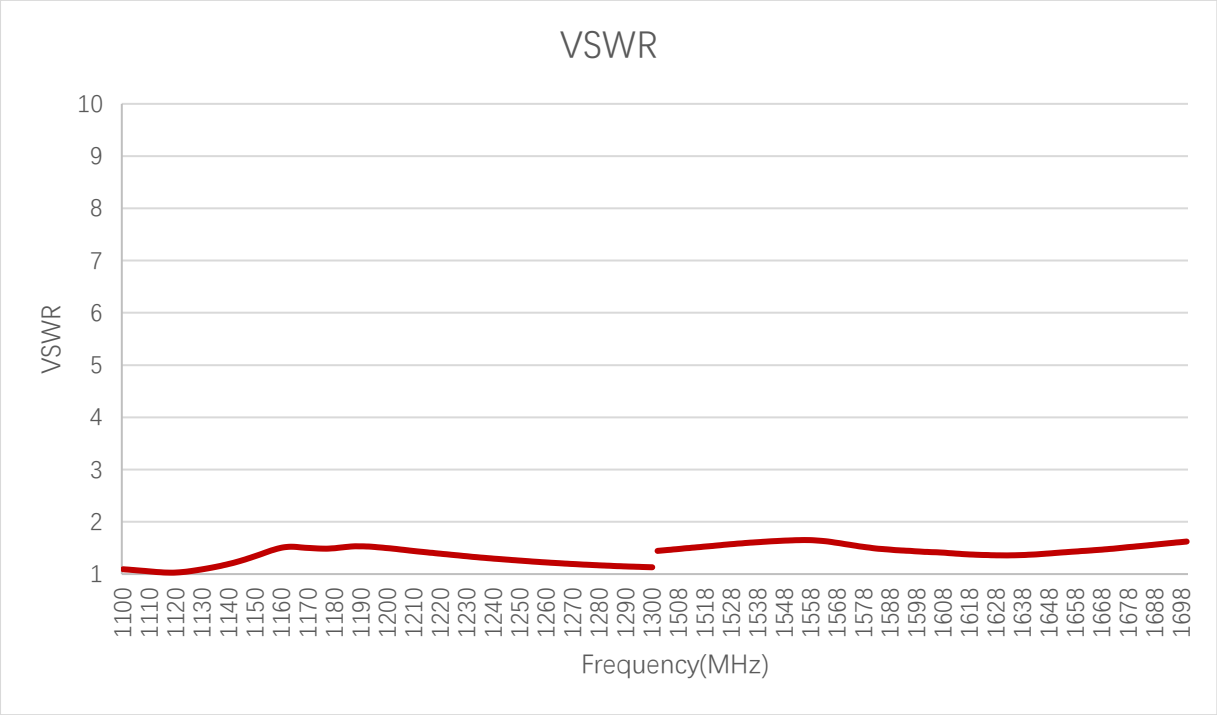
VSWR - LMH

Frequency (MHz)		600	630	710	830	900	960	1440	1710	1740	1880
LMH1	FS	3.3	2.5	1.5	1.4	1.6	2.4	4.8	1.3	1.5	2.5
	MP	4.0	3.4	1.7	1.9	1.2	2.0	5.1	1.4	1.7	2.3
LMH2	FS	3.5	2.5	1.6	1.8	1.6	2.3	5.8	1.2	1.3	2.1
	MP	4.3	3.5	2.1	1.5	1.5	2.7	6.2	1.4	1.6	2.1
LMH3	FS	3.4	2.6	1.5	1.3	1.6	2.6	5.0	1.1	1.3	2.2
	MP	4.1	3.4	1.7	2.6	1.3	3.0	5.5	1.3	1.5	2.3
LMH4	FS	2.9	2.5	1.4	1.5	1.5	2.3	6.3	1.3	1.9	2.3
	MP	3.8	3.2	2.1	2.1	1.3	1.8	6.7	1.7	2.3	2.5
Frequency (MHz)		**1950**	**2140**	**2350**	**2450**	**2600**	**3600**	**4700**	**5000**	**5500**	**6000**
LMH1	FS	1.7	1.9	1.2	1.6	1.3	2.6	1.4	1.2	1.1	2.3
	MP	1.8	1.4	1.3	2.1	1.2	2.3	1.2	1.1	1.1	2.2
LMH2	FS	1.6	1.4	1.3	2.2	1.3	2.1	1.2	1.1	1.2	2.3
	MP	1.7	1.3	1.4	2.3	1.3	2.2	1.3	1.0	1.2	1.9
LMH3	FS	1.5	1.5	1.4	2.1	1.4	2.1	1.2	1.1	1.4	2.4
	MP	1.7	1.5	1.4	2.1	1.5	2.0	1.1	1.1	1.3	2.7
LMH4	FS	1.8	1.2	1.2	1.9	1.7	1.7	1.5	1.4	1.5	1.4
	MP	1.8	1.2	1.2	1.9	1.8	1.9	1.4	1.4	1.4	1.3

VSWR - MH

Frequency (MHz)		600	630	710	830	900	960	1440	1710	1740	1880
MH1	FS	-	-	-	-	-	-	4.8	2.0	2.0	1.6
	MP	-	-	-	-	-	-	6.9	3.4	3.0	1.4
MH2	FS	-	-	-	-	-	-	4.2	2.1	2.0	1.8
	MP	-	-	-	-	-	-	6.3	3.7	3.8	1.6
MH3	FS	-	-	-	-	-	-	5.0	2.1	2.4	1.7
	MP	-	-	-	-	-	-	7.5	3.2	3.5	1.8
MH4	FS	-	-	-	-	-	-	4.2	2.2	2.1	2.0

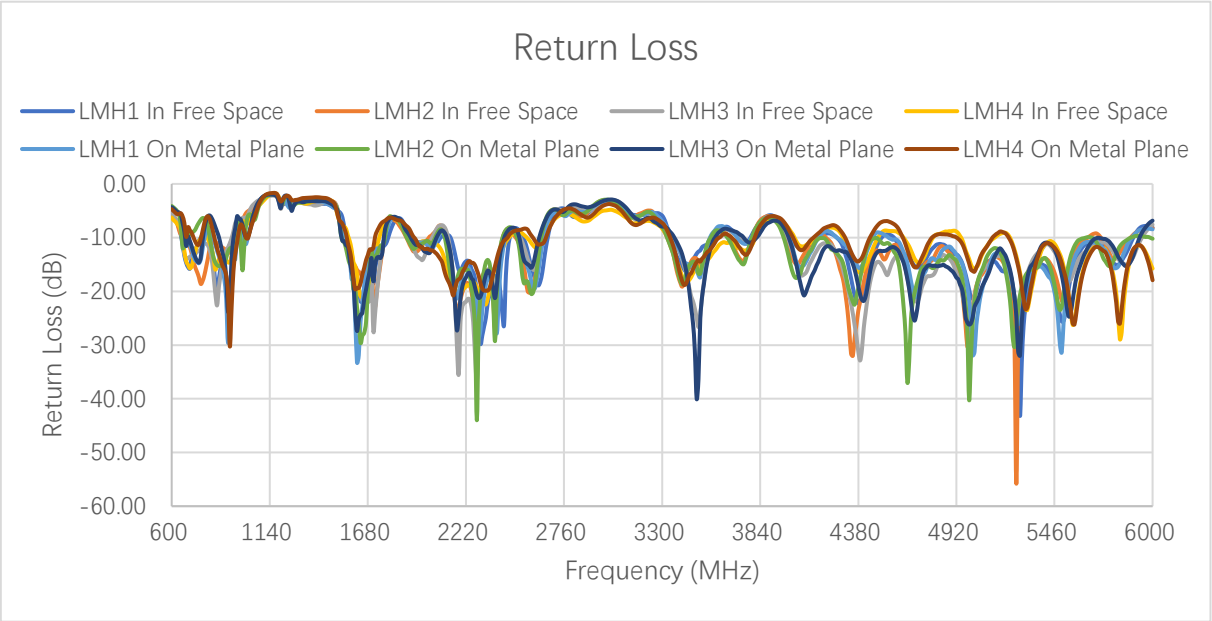
	MP	-	-	-	-	-	-	6.5	3.0	3.1	1.8
Frequency (MHz)		**1950**	**2140**	**2350**	**2450**	**2600**	**3600**	**4700**	**5000**	**5500**	**6000**
MH1	**FS**	1.4	1.5	1.7	2.5	1.0	1.8	2.2	2.2	1.7	1.6
	MP	1.6	1.7	1.9	2.1	1.2	1.8	2.1	2.2	1.8	1.6
MH2	**FS**	1.3	1.8	1.6	3.0	1.1	1.8	2.6	2.9	1.4	1.3
	MP	1.7	2.3	1.9	2.3	1.2	1.8	2.1	1.9	2.6	2.4
MH3	**FS**	1.4	2.0	1.9	2.3	1.3	1.6	2.6	2.8	2.1	1.2
	MP	1.6	2.2	2.0	2.1	1.4	1.7	2.5	2.6	2.3	1.2
MH4	**FS**	1.5	2.0	1.8	2.3	1.3	1.6	2.5	2.7	2.0	1.0
	MP	1.7	1.9	1.8	2.3	1.3	1.6	2.4	2.6	2.0	1.2



VSWR-GNSS

Frequency (MHz)	**1176**	**1207**	**1227**	**1248**	**1268**	**1561**	**1575**	**1602**
VSWR	1.48					1.63	1.54	1.42

3.1.2. Return Loss



Return Loss (dB)

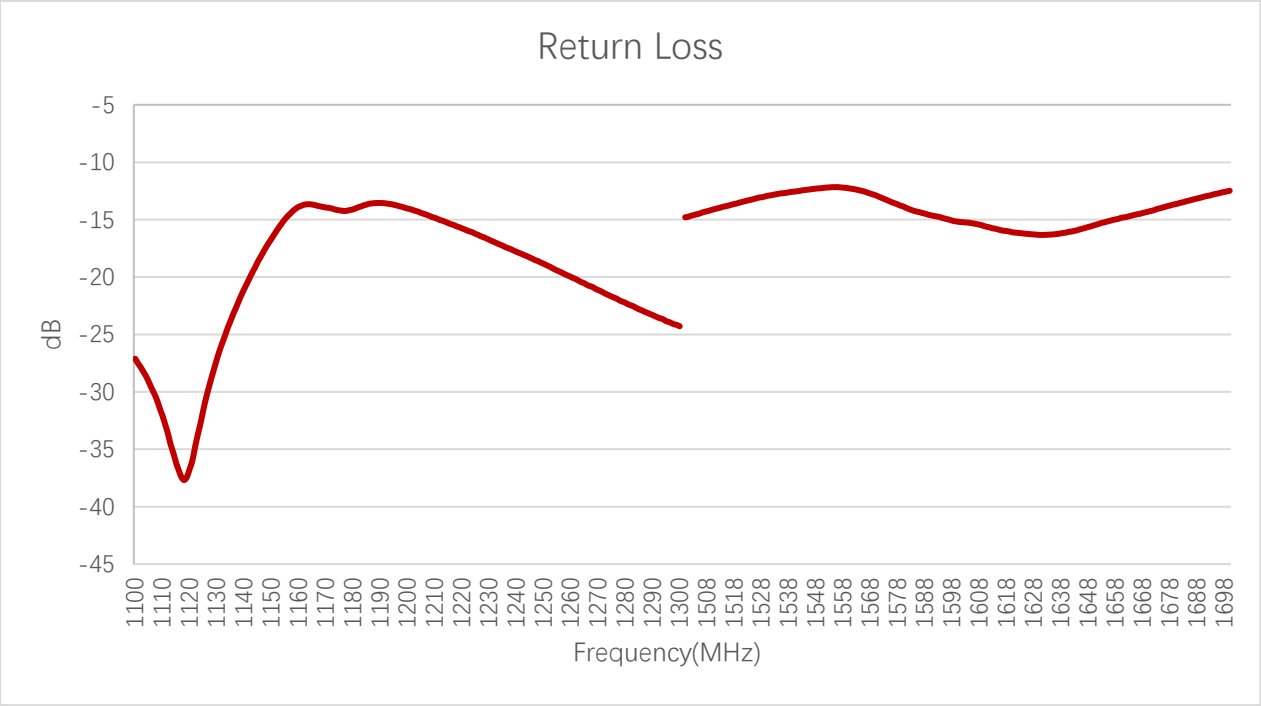
Frequency (MHz)		600	630	710	830	900	960	1440	1710	1740	1880
LMH1	FS	-5.4	-7.4	-14.0	-15.6	-12.7	-7.7	-3.7	-17.7	-14.0	-7.4
	MP	-4.4	-5.3	-11.7	-10.2	-20.8	-9.5	-3.5	-15.6	-11.7	-8.1
LMH2	FS	-5.1	-7.4	-12.7	-10.9	-12.7	-8.1	-3.0	-20.8	-17.7	-9.0
	MP	-4.1	-5.1	-9.0	-14.0	-14.0	-6.8	-2.8	-15.6	-12.7	-9.0
LMH3	FS	-5.3	-7.0	-14.0	-17.7	-12.7	-7.0	-3.5	-26.4	-17.7	-8.5
	MP	-4.3	-5.3	-11.7	-7.0	-17.7	-6.0	-3.2	-17.7	-14.0	-8.1
LMH4	FS	-6.2	-7.4	-15.6	-14.0	-14.0	-8.1	-2.8	-17.7	-10.2	-8.1
	MP	-4.7	-5.6	-9.0	-9.0	-17.7	-10.9	-2.6	-11.7	-8.1	-7.4

Frequency (MHz)		1950	2140	2350	2450	2600	3600	4700	5000	5500	6000
LMH1	FS	-11.7	-10.2	-20.8	-12.7	-17.7	-7.0	-15.6	-20.8	-26.4	-8.1
	MP	-10.9	-15.6	-17.7	-9.0	-20.8	-8.1	-20.8	-26.4	-26.4	-8.5
LMH2	FS	-12.7	-15.6	-17.7	-8.5	-17.7	-9.0	-20.8	-26.4	-20.8	-8.1
	MP	-11.7	-17.7	-15.6	-8.1	-17.7	-8.5	-17.7	-32.0	-20.8	-10.2
LMH3	FS	-14.0	-14.0	-15.6	-9.0	-15.6	-9.0	-20.8	-26.4	-15.6	-7.7
	MP	-11.7	-14.0	-15.6	-9.0	-14.0	-9.5	-26.4	-26.4	-17.7	-6.8
LMH4	FS	-10.9	-20.8	-20.8	-10.2	-11.7	-11.7	-14.0	-15.6	-14.0	-15.6
	MP	-10.9	-20.8	-20.8	-10.2	-10.9	-10.2	-15.6	-15.6	-15.6	-17.7

Return Loss(dB)

Frequency (MHz)		600	630	710	830	900	960	1440	1710	1740	1880
MH1	FS	-	-	-	-	-	-	-3.7	-9.5	-9.5	-12.7
	MP	-	-	-	-	-	-	-2.5	-5.3	-6.0	-15.6
MH2	FS	-	-	-	-	-	-	-4.2	-9.0	-9.5	-10.9
	MP	-	-	-	-	-	-	-2.8	-4.8	-4.7	-12.7
MH3	FS	-	-	-	-	-	-	-3.5	-9.0	-7.7	-11.7
	MP	-	-	-	-	-	-	-2.3	-5.6	-5.1	-10.9
MH4	FS	-	-	-	-	-	-	-4.2	-8.5	-9.0	-9.5

	MP	-	-	-	-	-	-	-2.7	-6.0	-5.8	-10.9
Frequency (MHz)		**1950**	**2140**	**2350**	**2450**	**2600**	**3600**	**4700**	**5000**	**5500**	**6000**
MH1	**FS**	-15.6	-14.0	-11.7	-7.4	-36.3	-10.9	-8.5	-8.5	-11.7	-12.7
	MP	-12.7	-11.7	-10.2	-9.0	-20.8	-10.9	-9.0	-8.5	-10.9	-12.7
MH2	**FS**	-17.7	-10.9	-12.7	-6.0	-26.4	-10.9	-7.0	-6.2	-15.6	-17.7
	MP	-11.7	-8.1	-10.2	-8.1	-20.8	-10.9	-9.0	-10.2	-7.0	-7.7
MH3	**FS**	-15.6	-9.5	-10.2	-8.1	-17.7	-12.7	-7.0	-6.5	-9.0	-20.8
	MP	-12.7	-8.5	-9.5	-9.0	-15.6	-11.7	-7.4	-7.0	-8.1	-20.8
MH4	**FS**	-14.0	-9.5	-10.9	-8.1	-17.7	-12.7	-7.4	-6.8	-9.5	-33.7
	MP	-11.7	-10.2	-10.9	-8.1	-17.7	-12.7	-7.7	-7.0	-9.5	-20.8



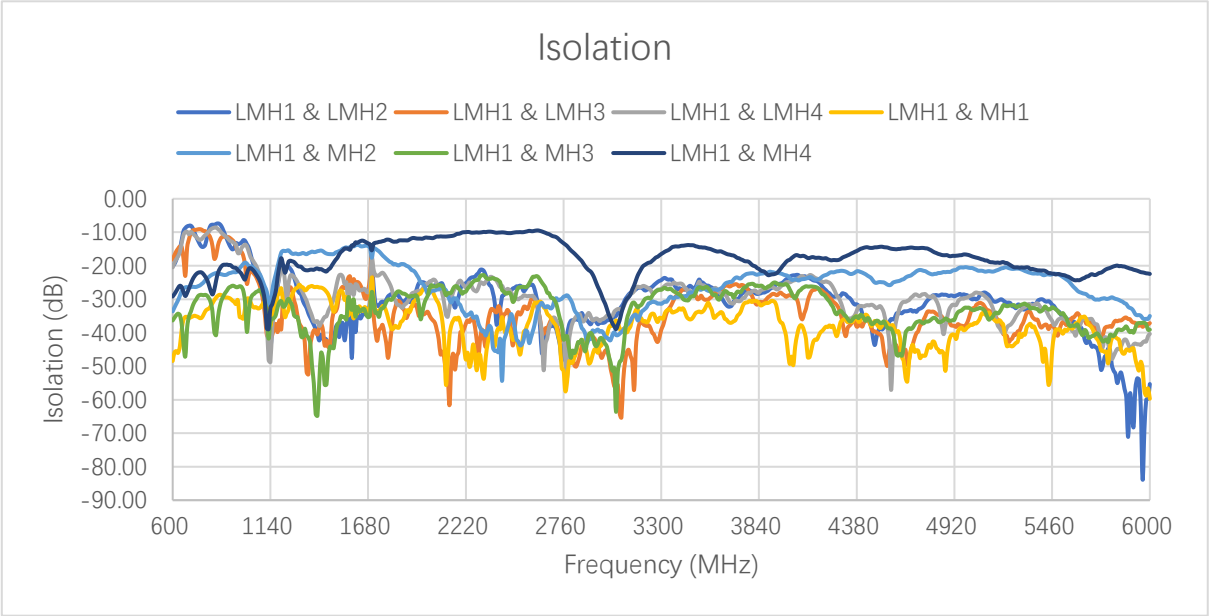
Return Loss(dB)-GNSS

Frequency (MHz)	**1176**	**1207**	**1227**	**1248**	**1268**	**1561**	**1575**	**1602**
Return Loss(dB)	-14.2					-12.3	-13.4	-15.2

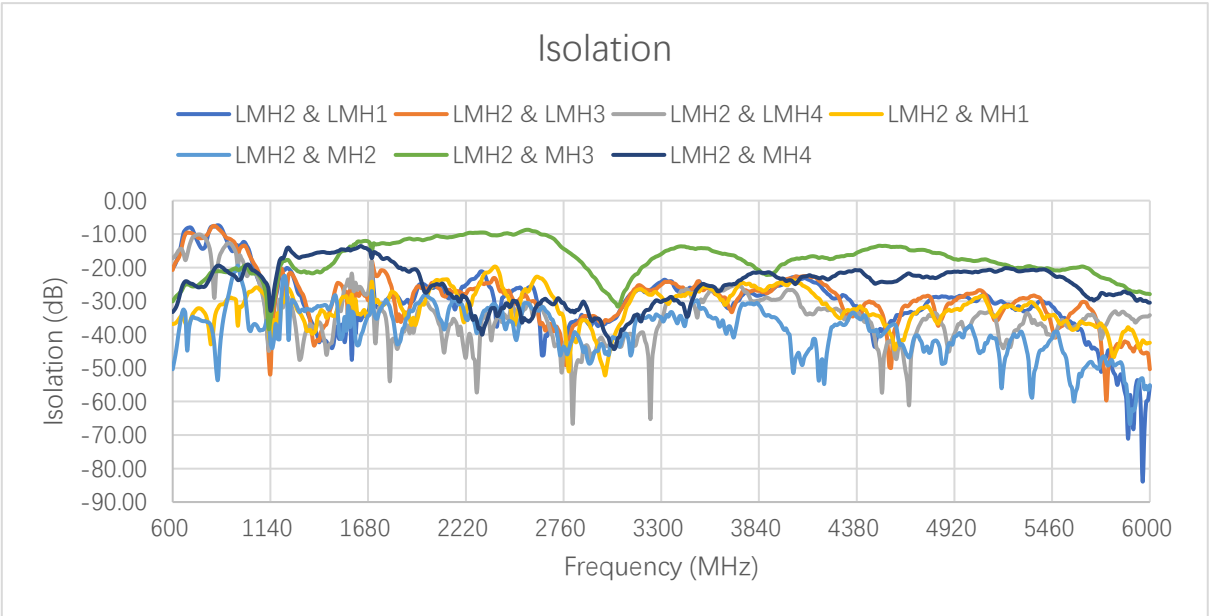
3.1.3. Isolation

3.1.3.1. Test Status: In Free Space

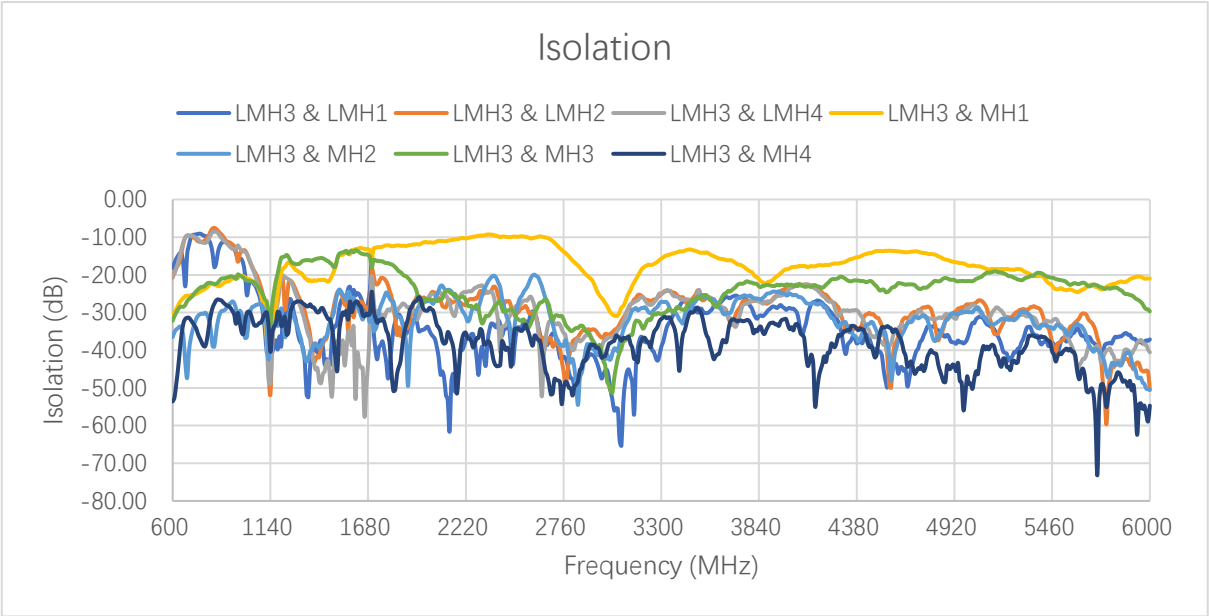
3.1.3.1.1. LMH1



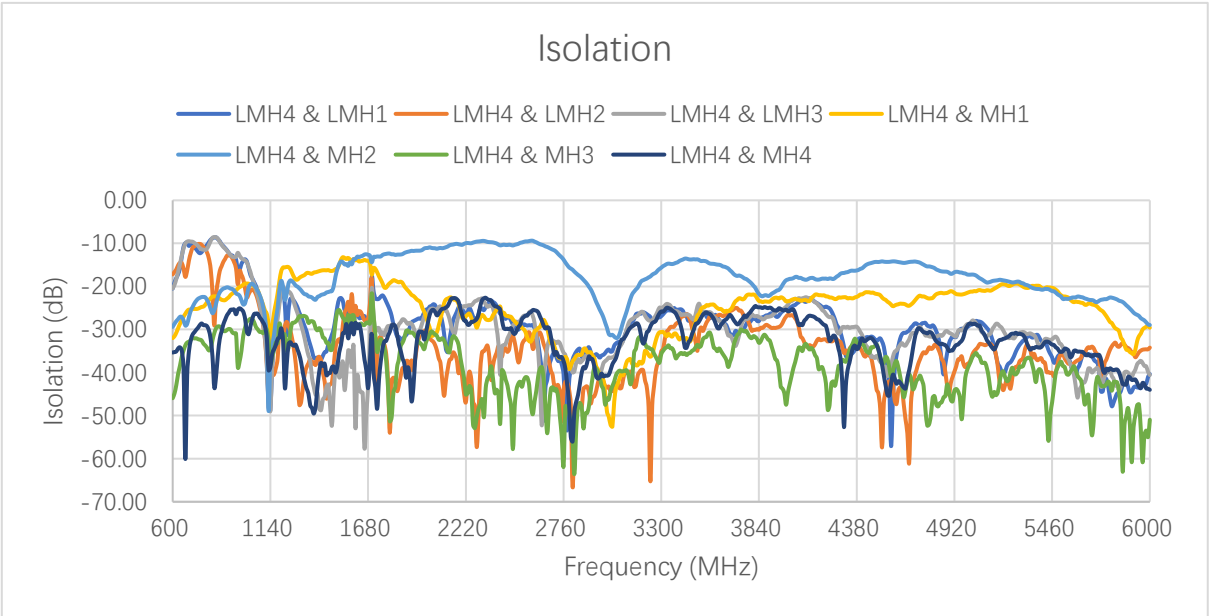
3.1.3.1.2. LMH2



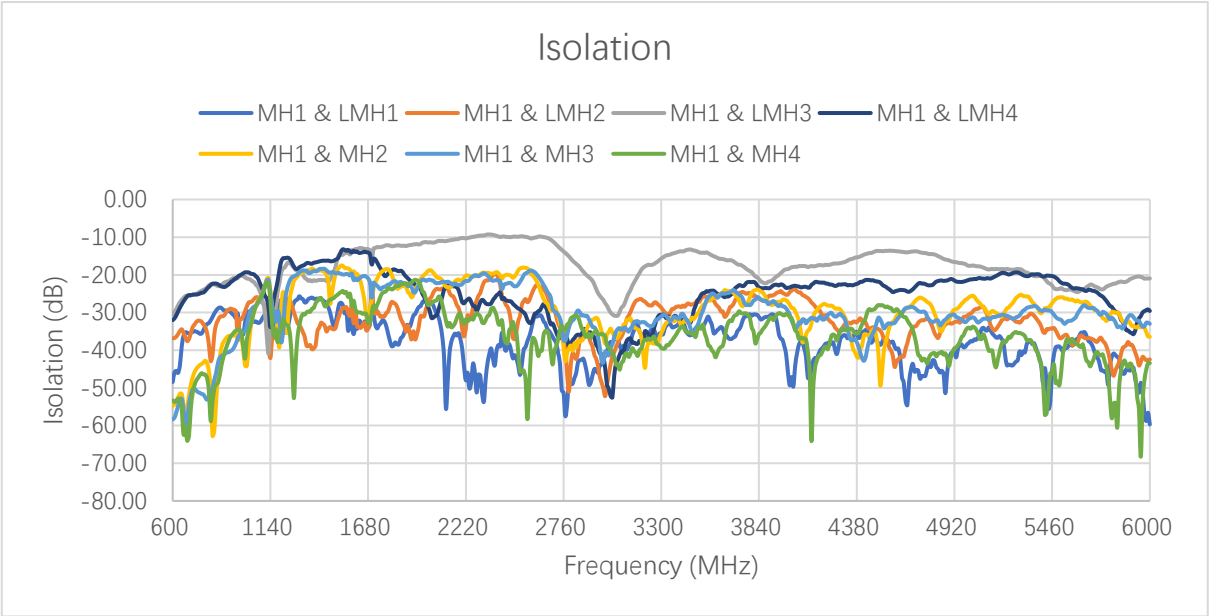
3.1.3.1.3. LMH3



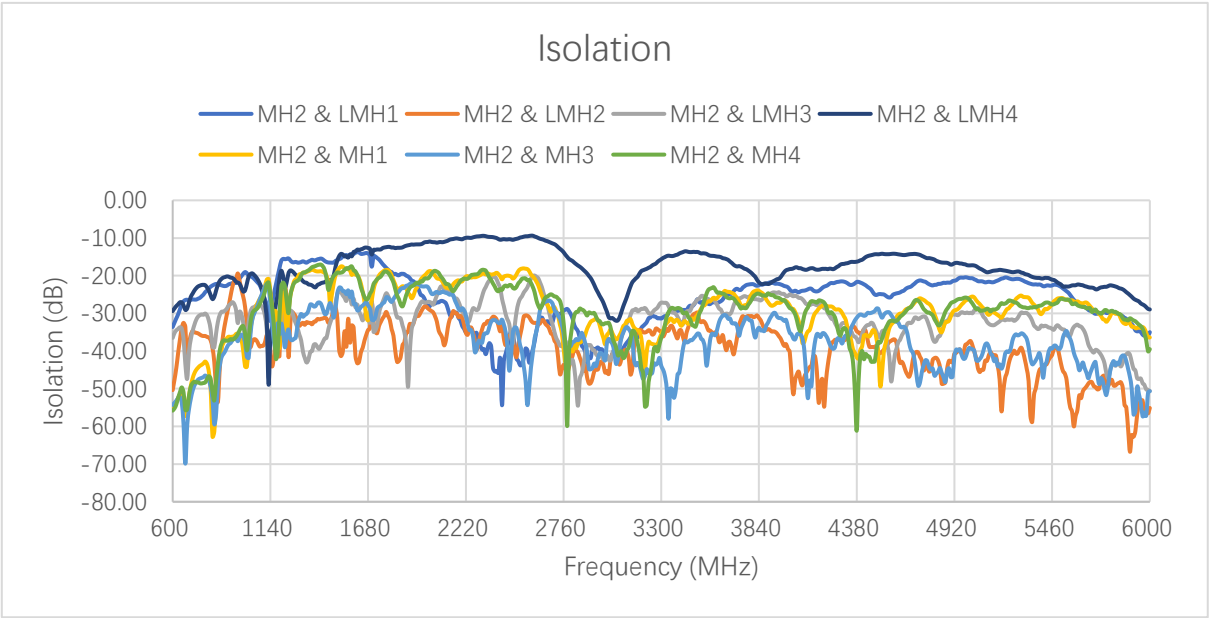
3.1.3.1.4. LMH4



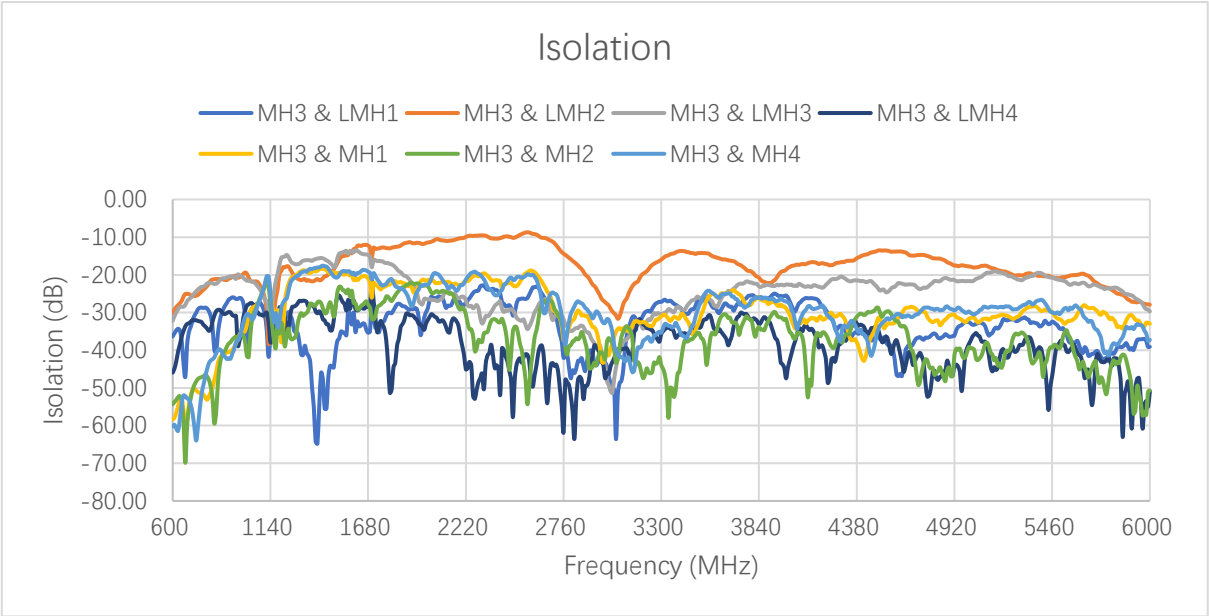
3.1.3.1.5. MH1



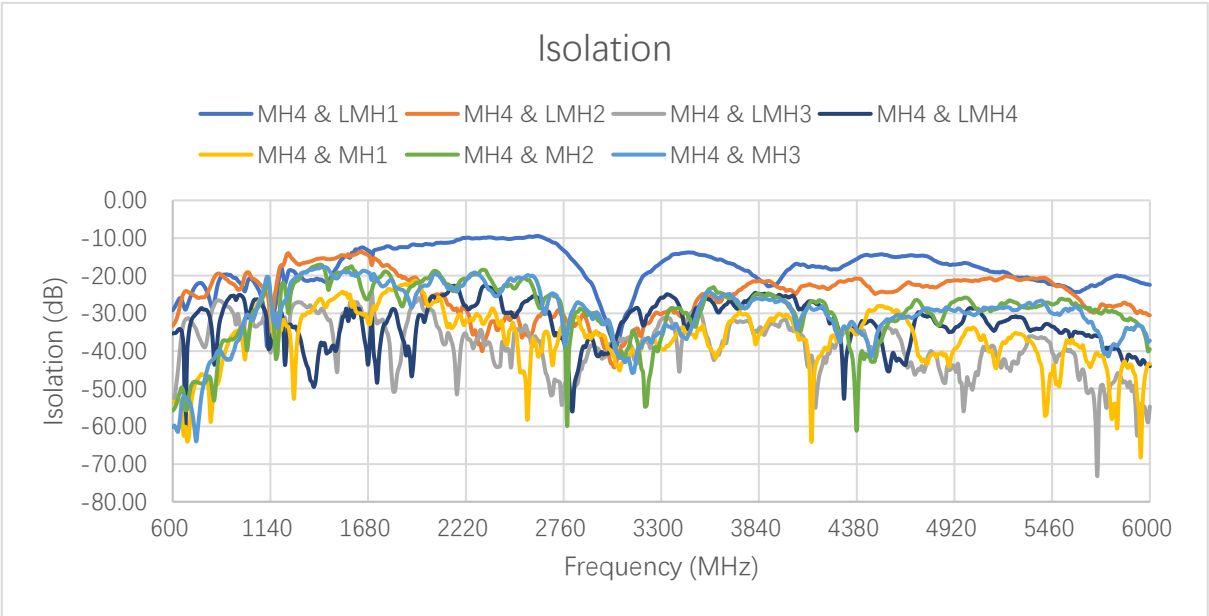
3.1.3.1.6. MH2



3.1.3.1.7. MH3

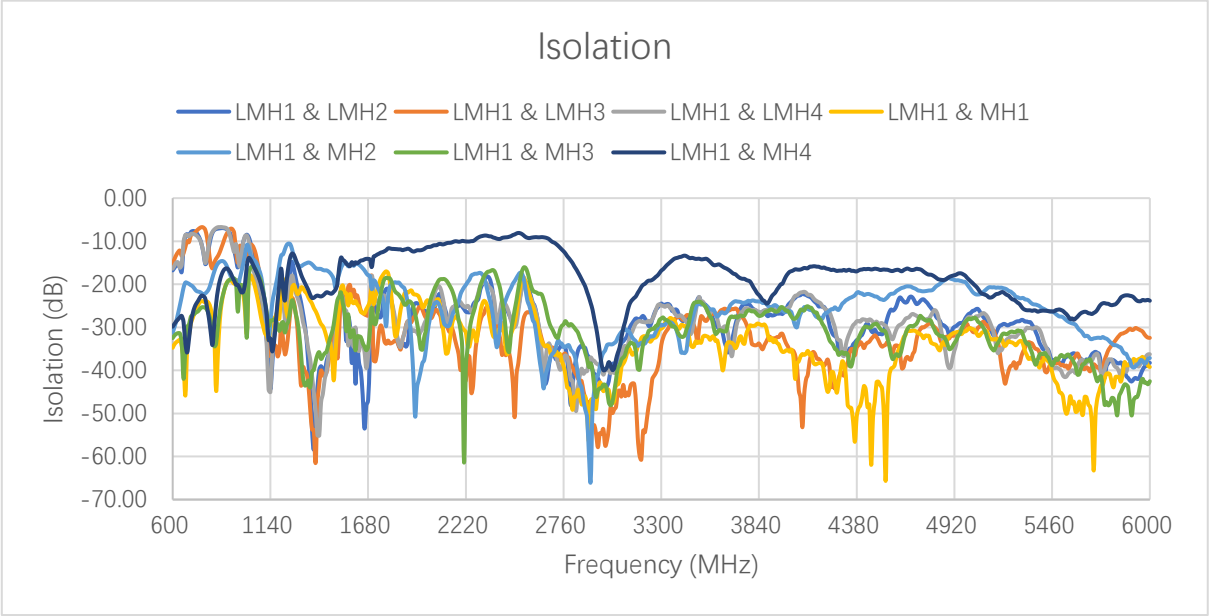


3.1.3.1.8. MH4

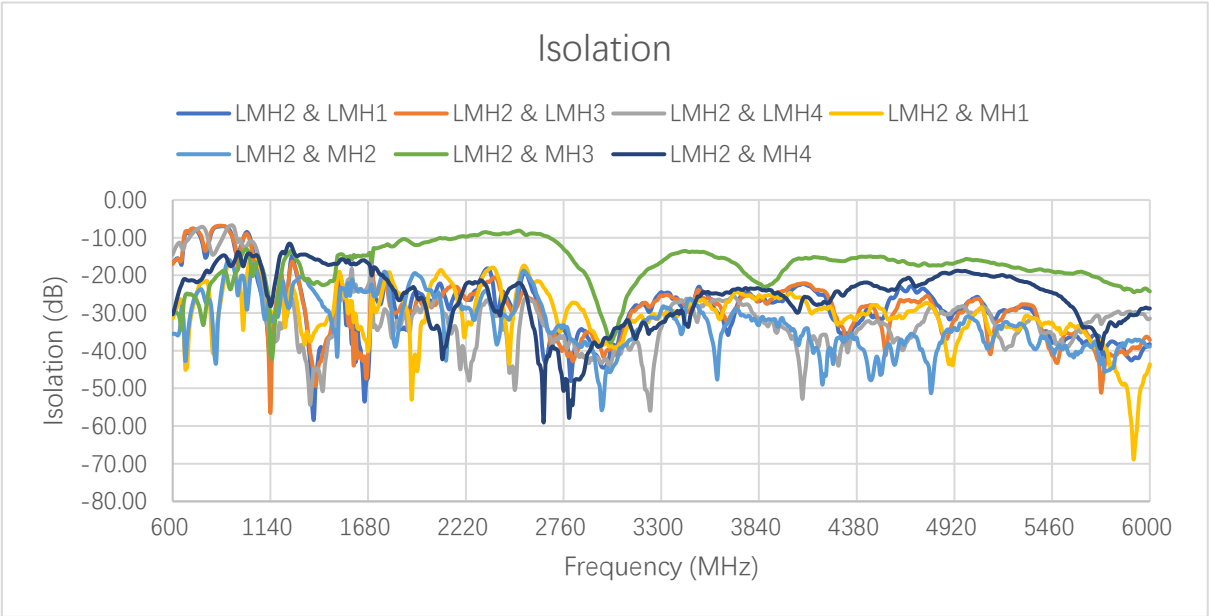


3.1.3.2. Test Status: On 500 × 500 mm Metal Plane

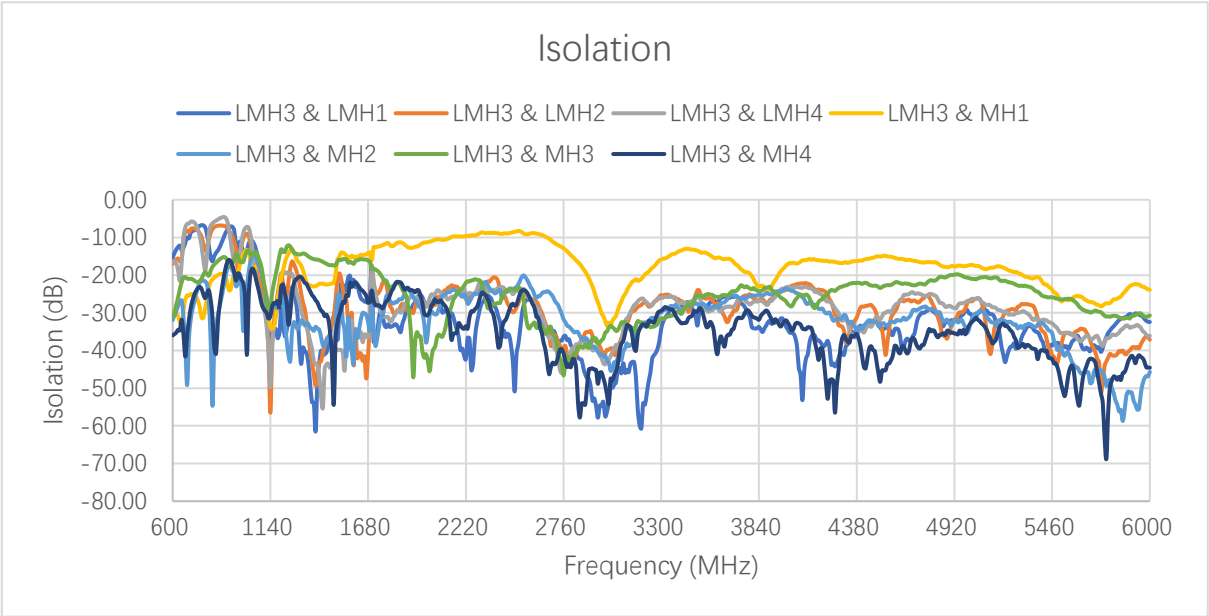
3.1.3.2.1. LMH1



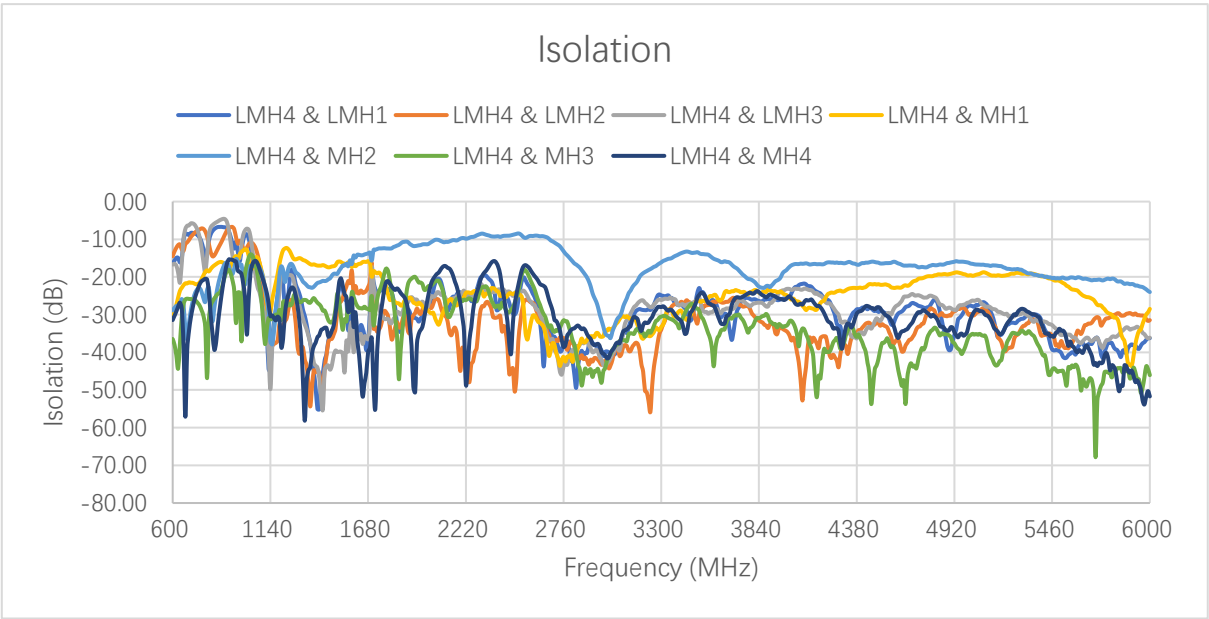
3.1.3.2.2. LMH2



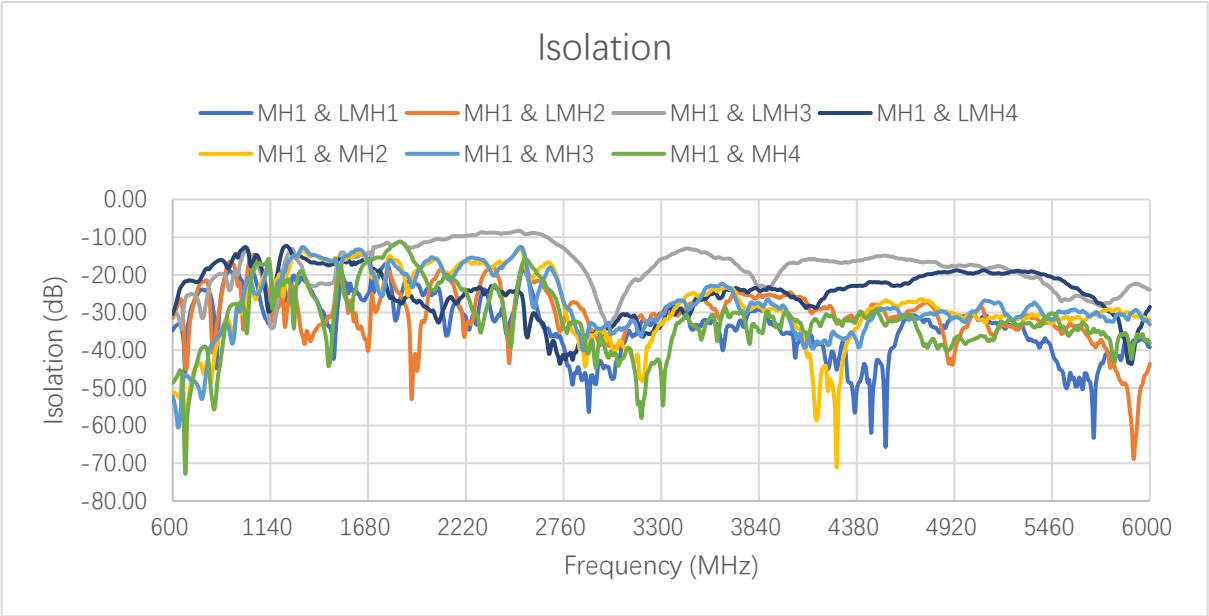
3.1.3.2.3. LMH3



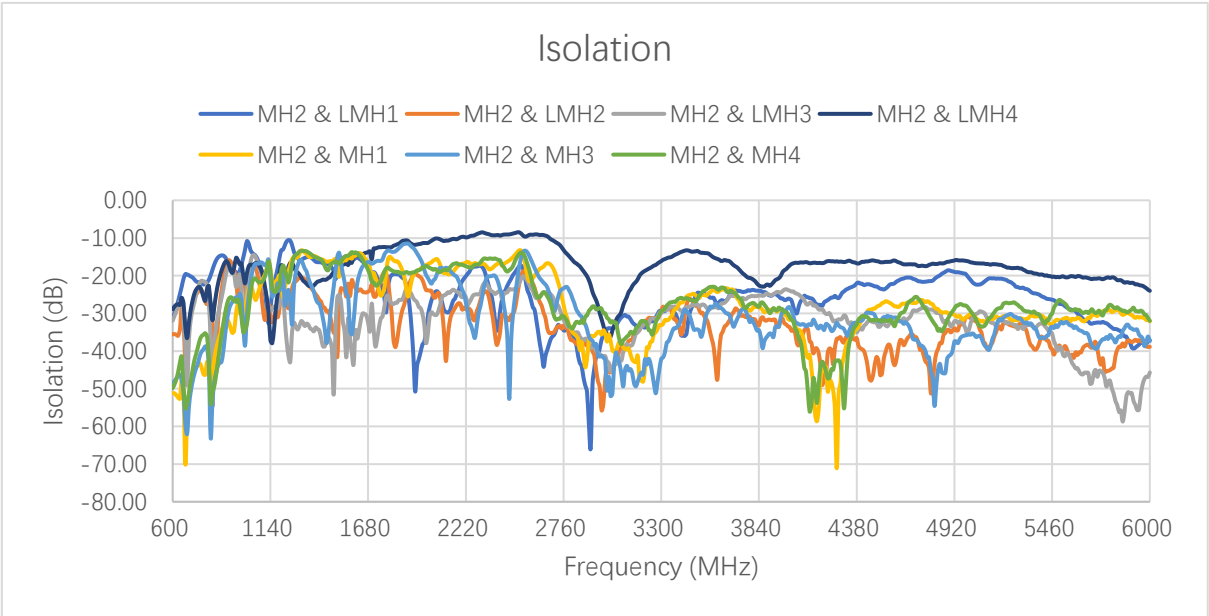
3.1.3.2.4. LMH4



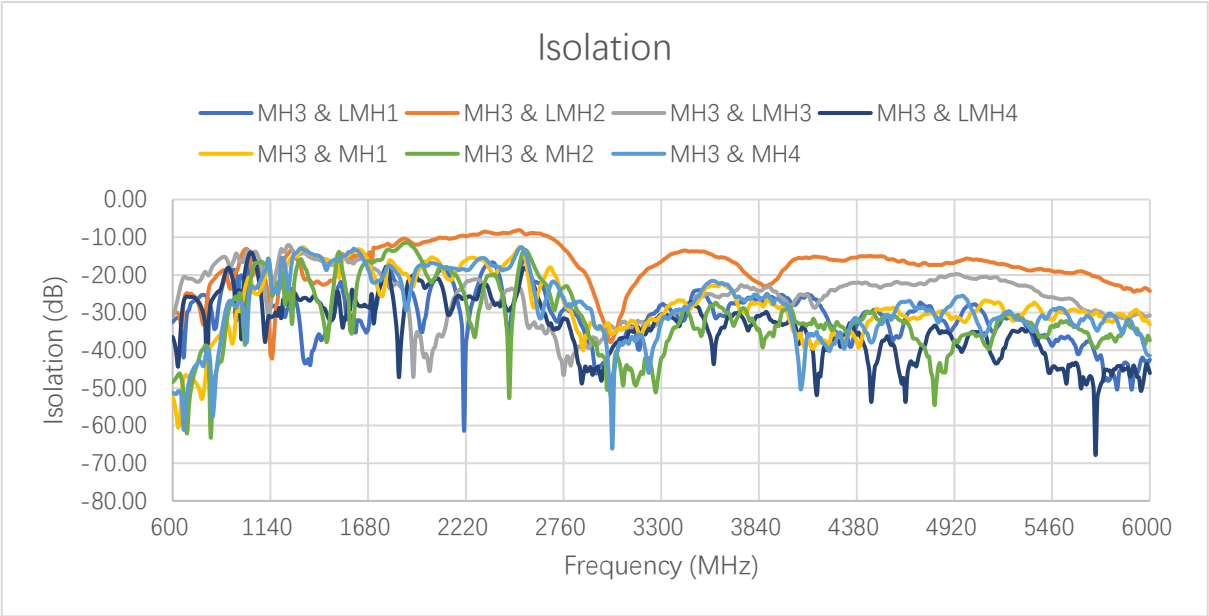
3.1.3.2.5. MH1



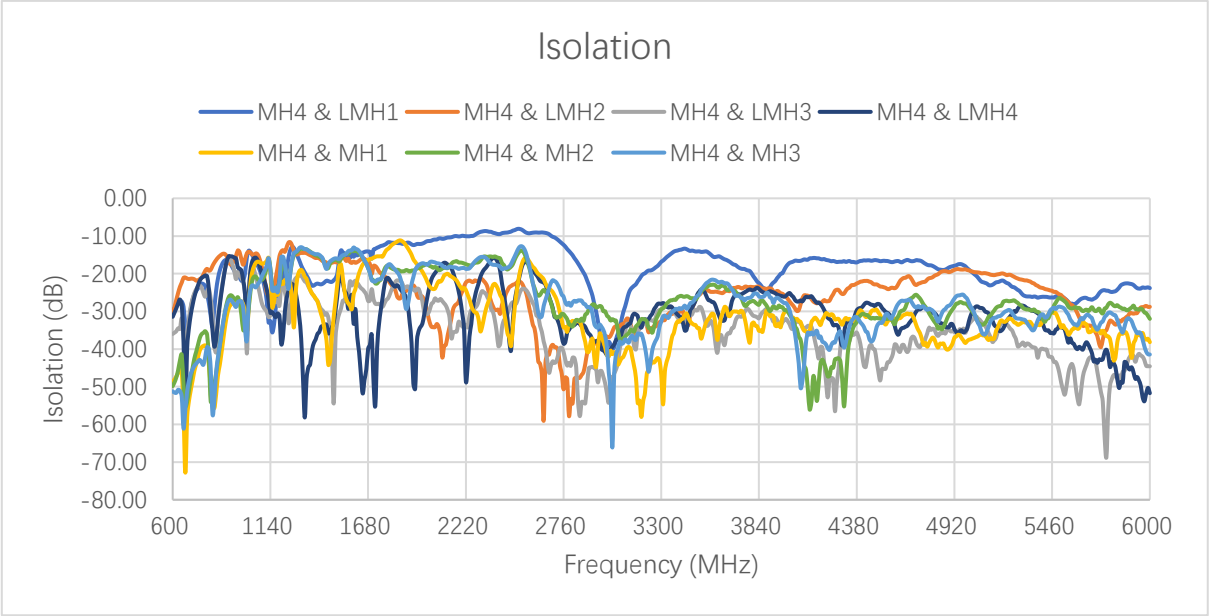
3.1.3.2.6. MH2



3.1.3.2.7. MH3



3.1.3.2.8. MH4



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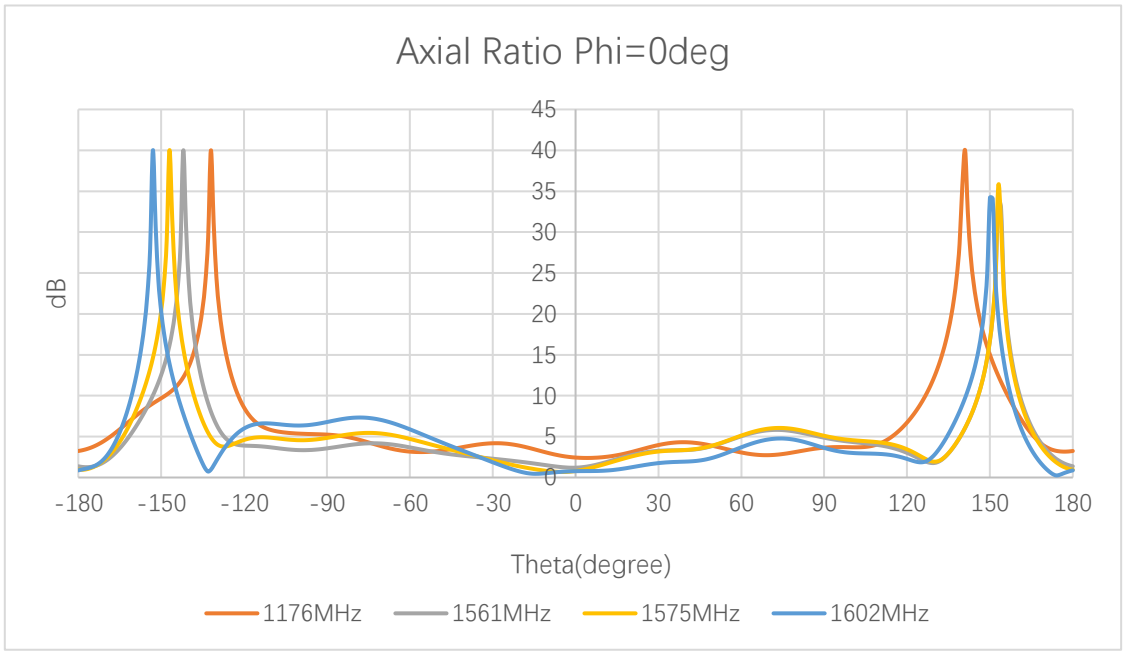
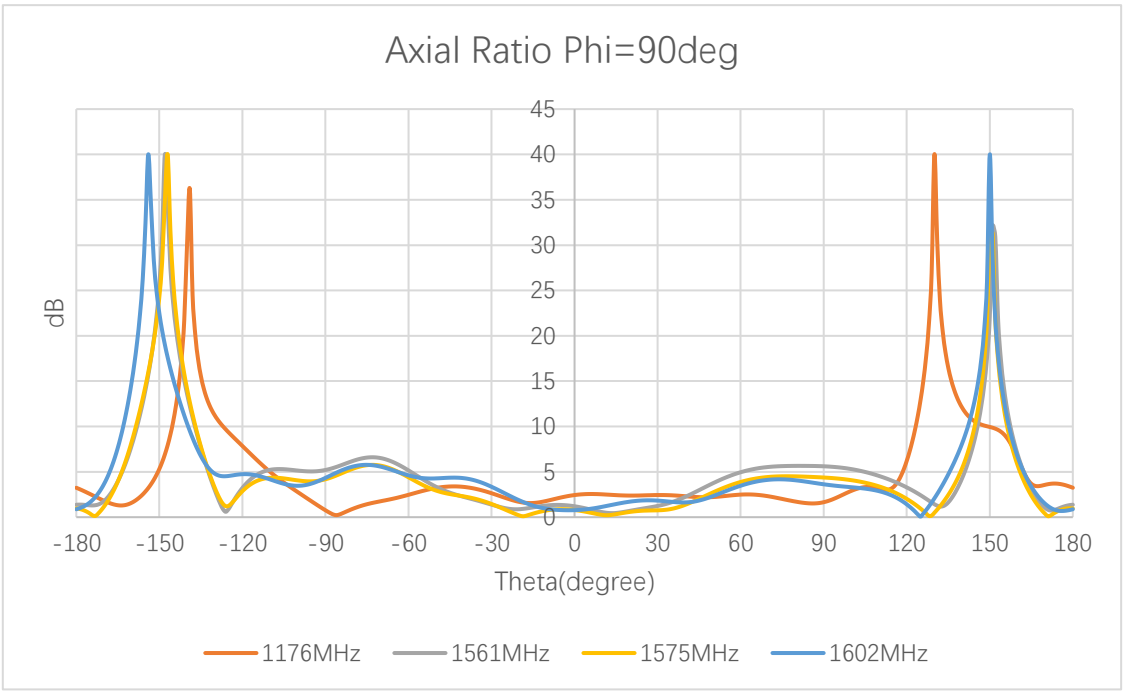
Max Isolation (dB)

	Band	B71	B12/ B13/ B28	B5/ B8/ B26	N74/ N75/ N76	B1/ B2/ B3	B40	Wi-Fi 2G	B38/ B41	B42/ B48/ N77	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
LMH1	FS	-7.9	-6.7	-6.7	-16.1	-10.0	-8.7	-8.2	-8.1	-13.3	-16.3	-20.7
	MP	-8.0	-8.0	-7.4	-15.4	-10.5	-9.8	-10.0	-9.5	-13.8	-14.3	-18.9
LMH2	FS	-7.7	-7.1	-6.7	-14.5	-10.0	-8.5	-8.2	-8.1	-13.5	-15.0	-17.0
	MP	-8.0	-8.0	-7.4	-15.0	-10.5	-9.5	-9.7	-8.7	-13.7	-13.5	-18.5
LMH3	FS	-5.8	-5.8	-4.6	-15.2	-9.7	-8.7	-8.4	-8.3	-13.0	-14.9	-17.6
	MP	-9.5	-9.1	-7.5	-14.4	-10.5	-9.3	-9.8	-9.8	-13.2	-13.6	-18.4
LMH4	FS	-5.8	-5.8	-4.6	-15.9	-10.1	-8.5	-8.6	-8.5	-13.3	-15.8	-17.0
	MP	-9.5	-9.6	-8.5	-14.8	-10.1	-9.4	-10.2	-9.4	-13.5	-14.2	-18.5
MH1	FS	-21.4	-18.3	-14.5	-15.2	-9.7	-8.7	-8.4	-8.3	-13.0	-14.9	-17.6
	MP	-25.4	-22.8	-20.5	-14.6	-10.5	-9.3	-9.8	-9.8	-13.2	-13.6	-18.4
MH2	FS	-19.6	-20.2	-14.6	-13.9	-10.1	-8.5	-8.6	-8.5	-13.3	-15.8	-17.0
	MP	-25.6	-22.4	-19.4	-14.8	-10.1	-9.4	-10.2	-9.4	-13.5	-14.2	-18.5
MH3	FS	-20.6	-19.2	-14.3	-13.9	-10.0	-8.5	-8.2	-8.1	-13.5	-15.0	-17.0
	MP	-25.0	-22.1	-19.9	-14.4	-10.5	-9.5	-9.7	-8.7	-13.7	-13.5	-18.5
MH4	FS	-21.0	-18.7	-13.8	-15.4	-10.0	-8.7	-8.2	-8.1	-13.3	-16.3	-19.9
	MP	-24.1	-21.9	-19.4	-15.0	-10.5	-9.8	-10.0	-9.5	-13.8	-14.3	-18.9

- FS: In Free Space
- MP: On 500 × 500 mm Metal Plane

3.1.4. GNSS Axial Ratio

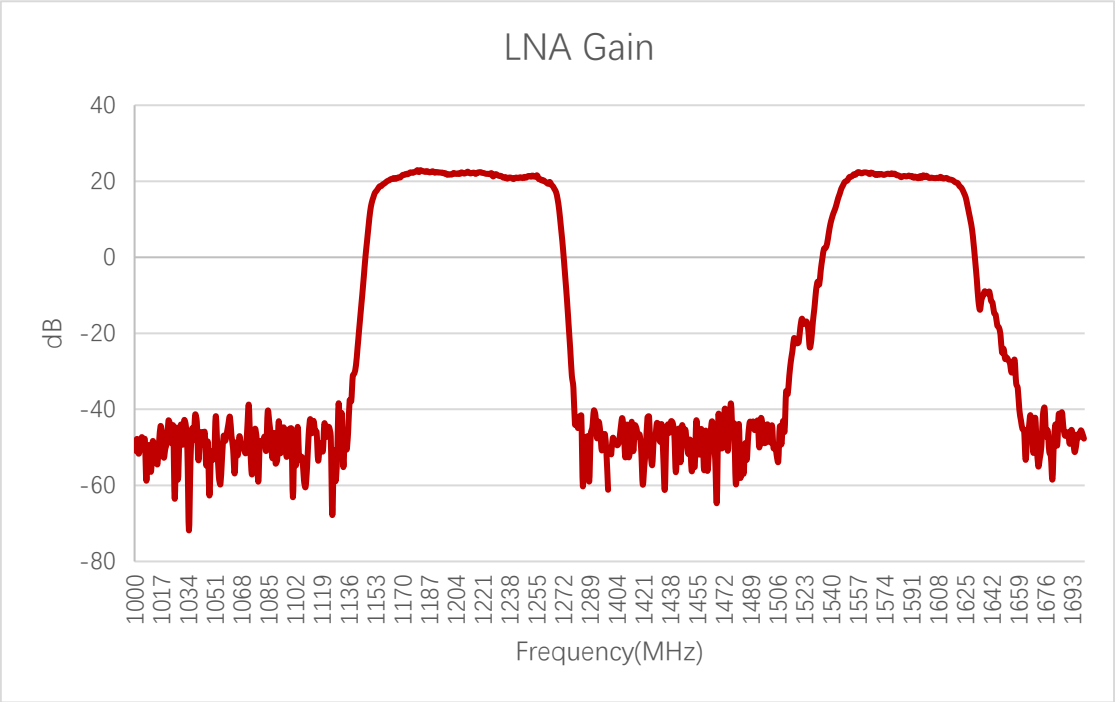




Axial Ratio (dB)

Frequency (MHz)		1176	1207	1227	1248	1268	1561	1575	1602
Axial Ratio(dB)	Phi = 0 (deg) Theta = 0 (deg)	2.44					1.2	0.79	0.77
	Phi = 90 (deg) Theta = 0 (deg)	2.44					1.2	0.79	0.77

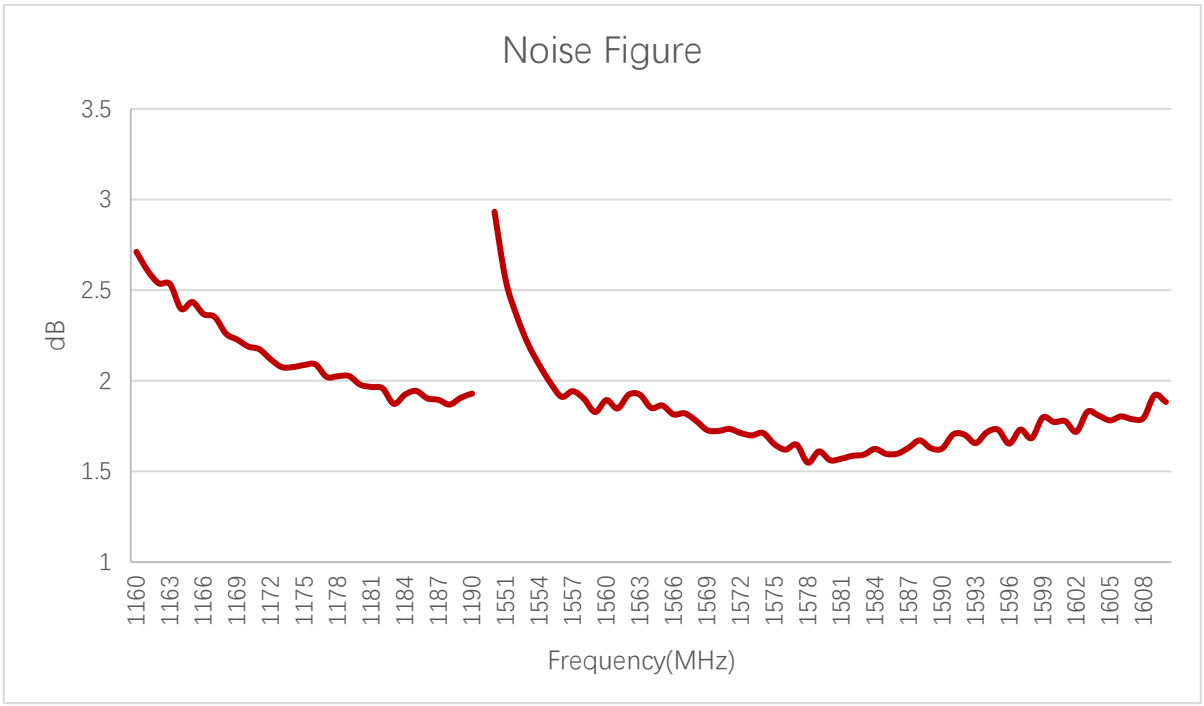
3.1.5. GNSS LNA Gain



LNA Gain(dB)

Frequency (MHz)	1176	1207	1227	1248	1268	1561	1575	1602
LNA Gain(dB)	22.2					22.3	21.9	20.8

3.1.6. GNSS Noise Figure

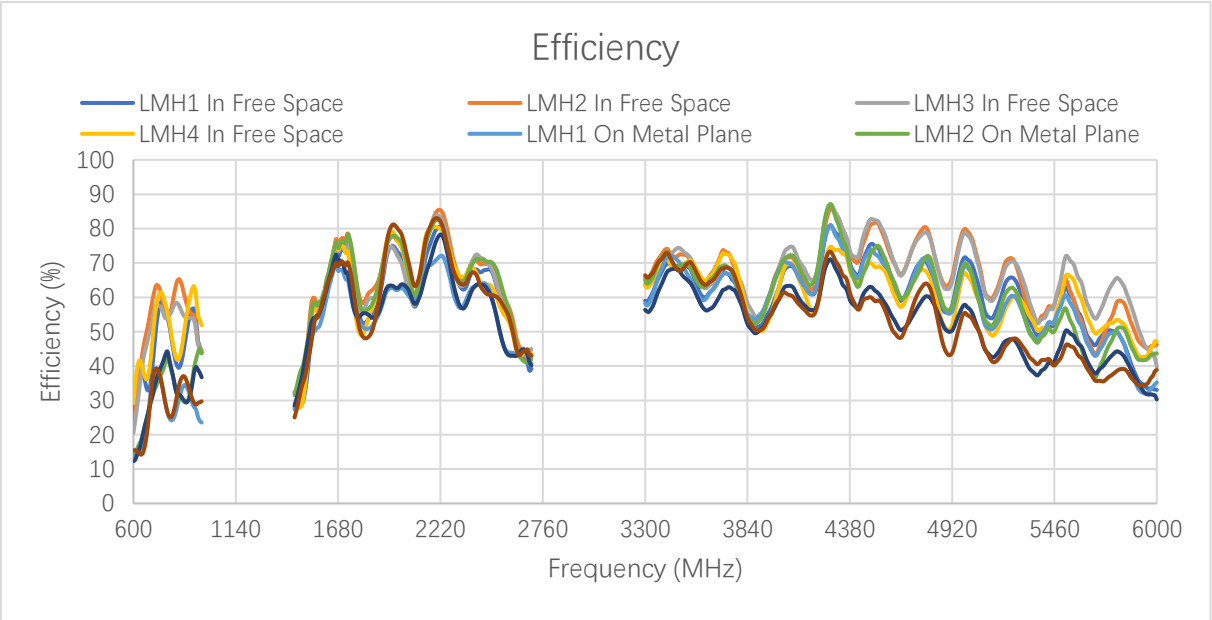


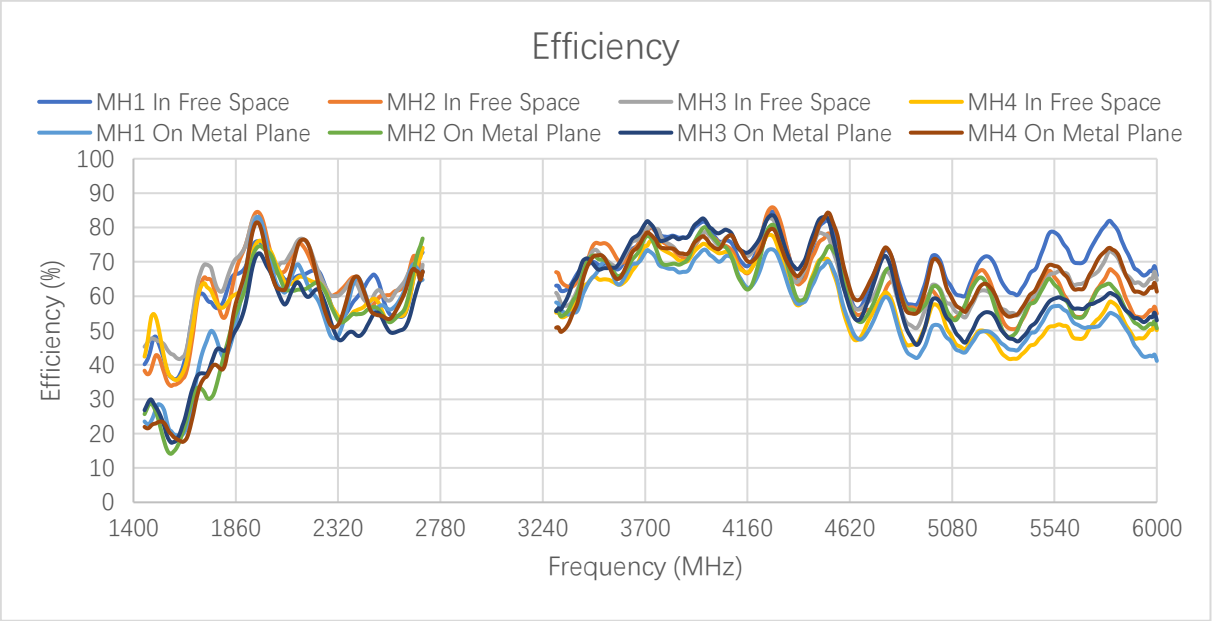
Noise Figure(dB)

Frequency (MHz)	1176	1207	1227	1248	1268	1561	1575	1602
Noise Figure(dB)	2.09					1.84	1.65	1.71

3.2. Radiation Performance Test

3.2.1. Efficiency





Efficiency (%)

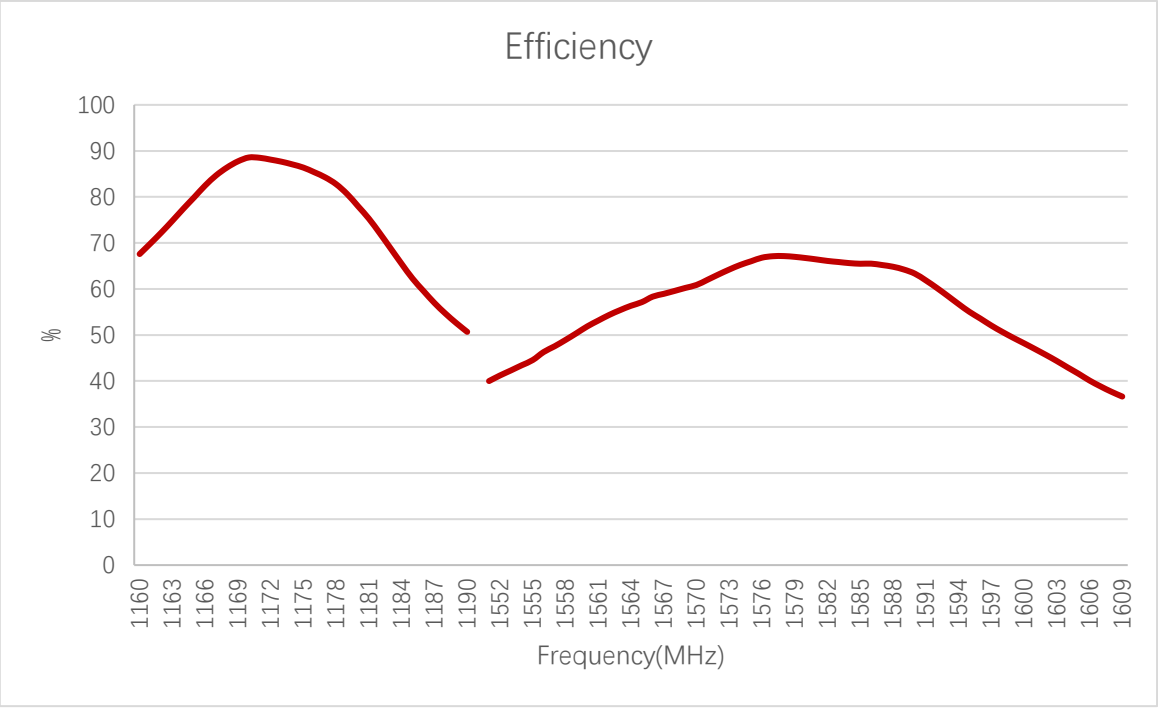
Frequency (MHz)		600	630	710	830	900	960	1440	1710	1740	1880
LMH1	FS	26.9	40.4	45.5	40.2	55.1	43.8	28.1	74.0	72.9	56.7
	MP	13.4	14.3	37.5	28.0	31.2	23.6	27.5	66.8	62.7	53.5
LMH2	FS	22.5	36.9	61.6	64.6	55.6	44.6	32.4	77.1	76.9	63.5
	MP	15.0	17.3	32.9	31.6	32.5	43.7	31.5	76.1	77.2	61.1
LMH3	FS	20.6	32.8	55.9	58.4	54.1	44.4	32.4	74.9	74.2	60.0
	MP	12.3	15.7	33.7	31.8	31.7	36.7	28.5	69.0	64.0	54.5
LMH4	FS	29.2	41.6	52.9	41.9	60.5	51.9	27.3	74.6	69.6	60.1
	MP	15.4	14.7	38.6	31.6	32.3	29.7	25.0	70.0	68.7	54.7

Frequency (MHz)		1950	2140	2350	2450	2600	3600	4700	5000	5500	6000
LMH1	FS	74.1	71.1	62.5	67.9	52.0	60.4	64.3	71.0	59.8	33.0
	MP	62.5	68.8	58.6	64.1	43.9	59.2	63.5	68.7	58.4	35.3
LMH2	FS	77.2	75.8	65.5	69.8	53.9	63.9	72.7	79.3	63.6	46.3
	MP	76.8	75.1	65.2	70.8	51.7	63.0	62.8	69.4	55.1	43.6
LMH3	FS	74.4	74.5	64.0	71.1	50.5	63.7	72.6	78.1	67.1	39.8
	MP	63.4	66.2	57.2	63.5	43.0	57.4	53.5	57.1	47.1	30.3
LMH4	FS	78.5	77.3	66.3	64.0	49.5	65.6	62.9	66.2	61.3	47.1
	MP	79.3	76.2	63.9	61.8	50.3	64.4	55.2	54.9	43.2	38.9

Efficiency (%)

Frequency (MHz)		600	630	710	830	900	960	1440	1710	1740	1880
MH1	FS	-	-	-	-	-	-	40.2	60.7	58.3	66.8
	MP	-	-	-	-	-	-	23.5	43.6	48.9	58.3
MH2	FS	-	-	-	-	-	-	38.3	64.6	65.0	71.0
	MP	-	-	-	-	-	-	25.7	32.8	30.1	58.2
MH3	FS	-	-	-	-	-	-	45.3	68.3	68.9	72.1
	MP	-	-	-	-	-	-	26.8	37.6	38.6	52.7

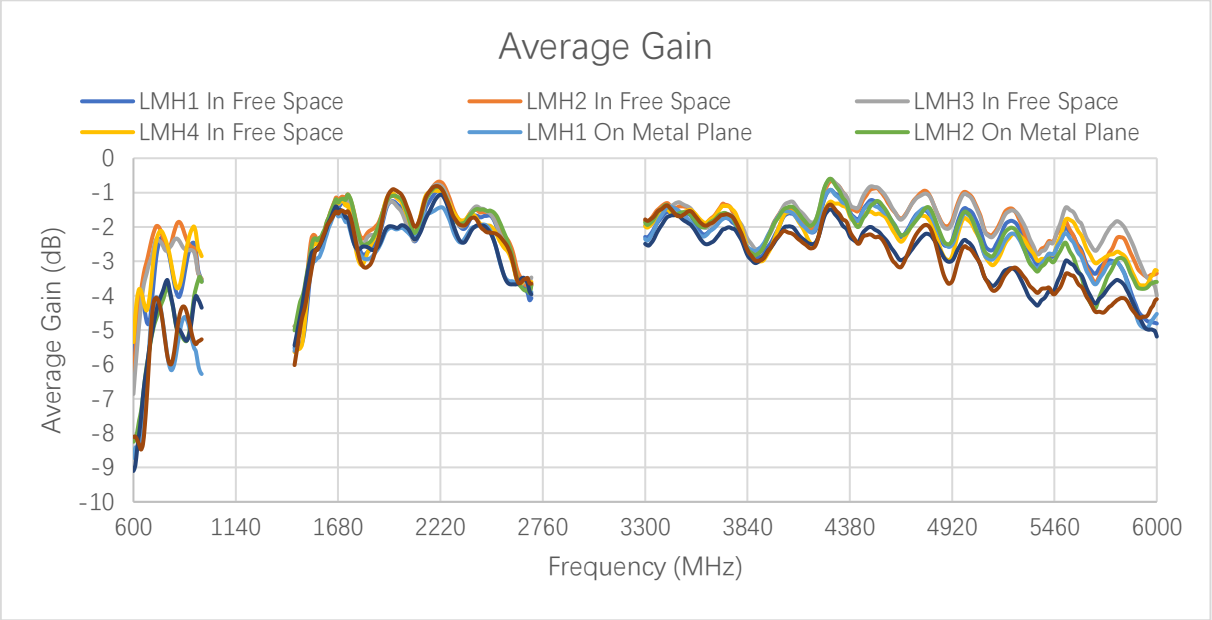
MH4	FS	-	-	-	-	-	-	42.4	63.4	62.2	61.4
	MP	-	-	-	-	-	-	22.0	35.4	37.9	62.1
Frequency (MHz)		**1950**	**2140**	**2350**	**2450**	**2600**	**3600**	**4700**	**5000**	**5500**	**6000**
MH1	FS	75.9	65.9	54.5	64.1	54.0	69.4	61.7	72.0	75.7	66.0
	MP	82.5	69.3	53.8	59.1	59.3	64.5	49.6	51.6	54.3	41.2
MH2	FS	84.3	75.5	63.0	58.4	62.0	69.8	56.0	61.0	65.9	54.9
	MP	73.7	61.9	52.8	56.0	54.9	66.6	54.6	63.0	63.9	50.6
MH3	FS	83.1	76.3	61.9	58.1	62.7	70.9	58.2	63.4	64.4	64.7
	MP	71.5	64.1	48.2	51.3	50.1	71.6	58.4	59.4	56.9	52.9
MH4	FS	75.1	65.4	53.1	57.9	54.2	63.8	52.3	57.6	49.8	50.1
	MP	81.3	74.9	56.9	58.8	58.3	66.6	62.9	70.9	67.8	61.3

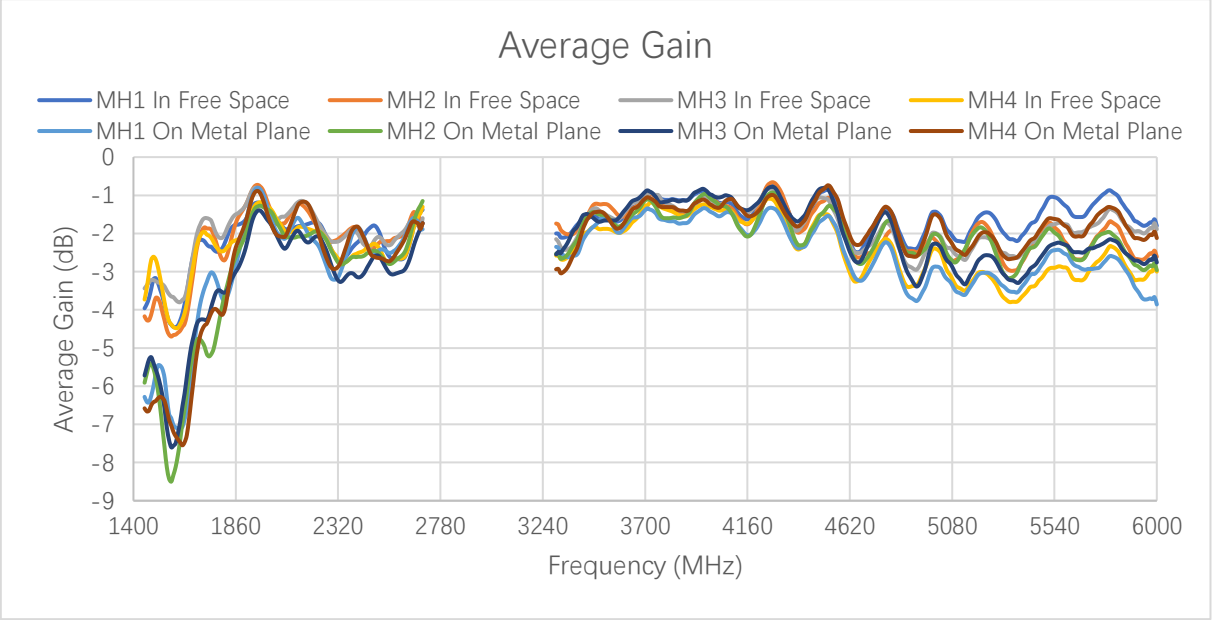


Efficiency (%)-GNSS

Frequency (MHz)	**1176**	**1207**	**1227**	**1248**	**1268**	**1561**	**1575**	**1602**
Efficiency (%)	85					53	66	45.7

3.2.2. Average Gain





Average Gain (dB)

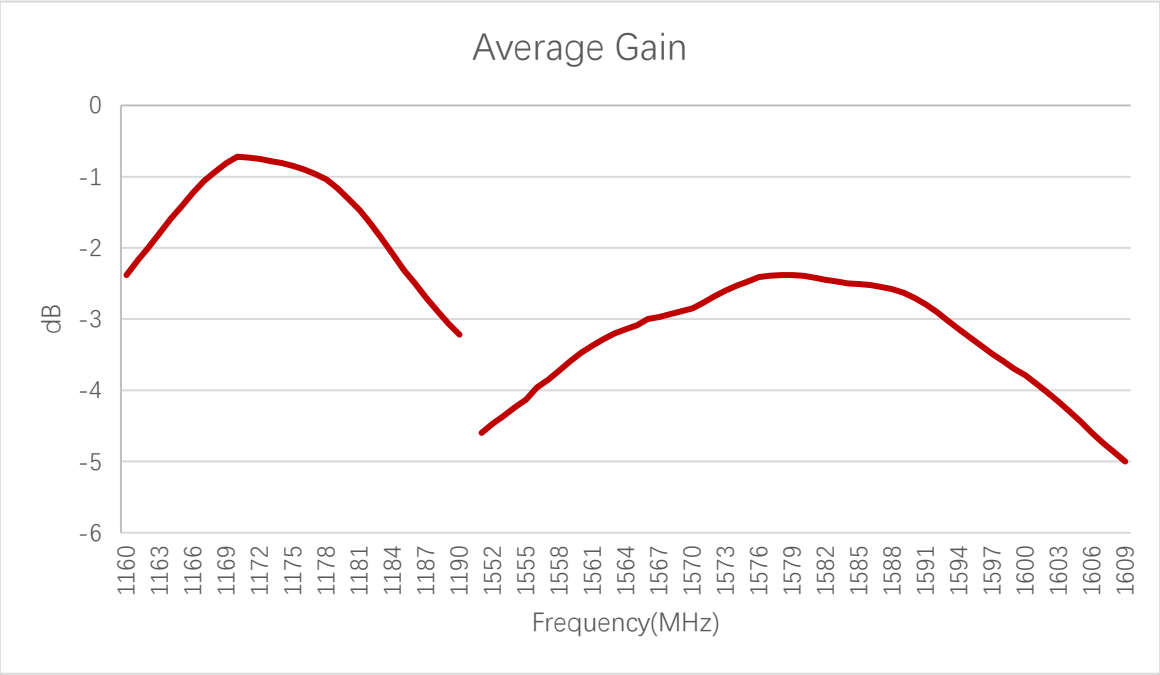
Frequency (MHz)		600	630	710	830	900	960	1440	1710	1740	1880
LMH1	FS	-5.7	-3.9	-3.4	-4.0	-2.6	-3.6	-5.5	-1.3	-1.4	-2.5
	MP	-8.7	-8.4	-4.3	-5.5	-5.1	-6.3	-5.6	-1.8	-2.0	-2.7
LMH2	FS	-6.5	-4.3	-2.1	-1.9	-2.5	-3.5	-4.9	-1.1	-1.1	-2.0
	MP	-8.2	-7.6	-4.8	-5.0	-4.9	-3.6	-5.0	-1.2	-1.1	-2.1
LMH3	FS	-6.9	-4.8	-2.5	-2.3	-2.7	-3.5	-4.9	-1.3	-1.3	-2.2
	MP	-9.1	-8.0	-4.7	-5.0	-5.0	-4.4	-5.5	-1.6	-1.9	-2.6
LMH4	FS	-5.3	-3.8	-2.8	-3.8	-2.2	-2.8	-5.6	-1.3	-1.6	-2.2
	MP	-8.1	-8.3	-4.1	-5.0	-4.9	-5.3	-6.0	-1.5	-1.6	-2.6

Frequency (MHz)		1950	2140	2350	2450	2600	3600	4700	5000	5500	6000
LMH1	FS	-1.3	-1.5	-2.0	-1.7	-2.8	-2.2	-1.9	-1.5	-2.2	-4.8
	MP	-2.0	-1.6	-2.3	-1.9	-3.6	-2.3	-2.0	-1.6	-2.3	-4.5
LMH2	FS	-1.1	-1.2	-1.8	-1.6	-2.7	-1.9	-1.4	-1.0	-2.0	-3.3
	MP	-1.1	-1.2	-1.9	-1.5	-2.9	-2.0	-2.0	-1.6	-2.6	-3.6
LMH3	FS	-1.3	-1.3	-1.9	-1.5	-3.0	-2.0	-1.4	-1.1	-1.7	-4.0
	MP	-2.0	-1.8	-2.4	-2.0	-3.7	-2.4	-2.7	-2.4	-3.3	-5.2
LMH4	FS	-1.1	-1.1	-1.8	-1.9	-3.1	-1.8	-2.0	-1.8	-2.1	-3.3
	MP	-1.0	-1.2	-1.9	-2.1	-3.0	-1.9	-2.6	-2.6	-3.6	-4.1

Average Gain (dB)

Frequency (MHz)		600	630	710	830	900	960	1440	1710	1740	1880
MH1	FS	-	-	-	-	-	-	-4.0	-2.2	-2.3	-1.8
	MP	-	-	-	-	-	-	-6.3	-3.6	-3.1	-2.3
MH2	FS	-	-	-	-	-	-	-4.2	-1.9	-1.9	-1.5
	MP	-	-	-	-	-	-	-5.9	-4.8	-5.2	-2.4
MH3	FS	-	-	-	-	-	-	-3.4	-1.7	-1.6	-1.4
	MP	-	-	-	-	-	-	-5.7	-4.2	-4.1	-2.8

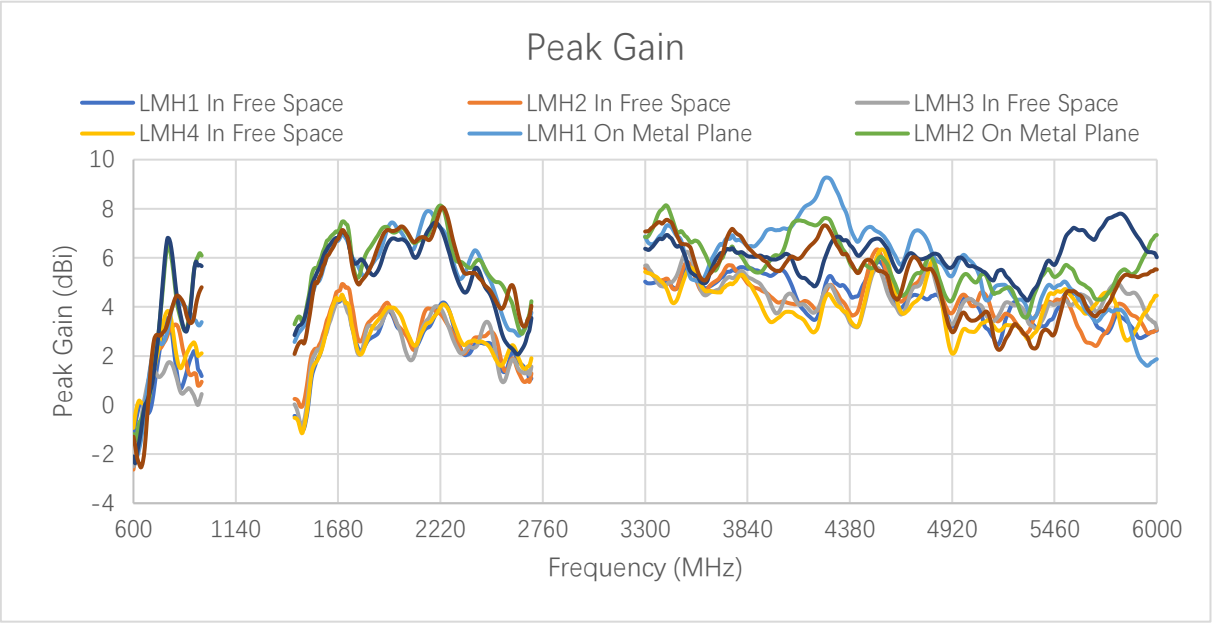
MH4	FS	-	-	-	-	-	-	-3.7	-2.0	-2.1	-2.1
	MP	-	-	-	-	-	-	-6.6	-4.5	-4.2	-2.1
Frequency (MHz)		1950	2140	2350	2450	2600	3600	4700	5000	5500	6000
MH1	FS	-1.2	-1.8	-2.6	-1.9	-2.7	-1.6	-2.1	-1.4	-1.2	-1.8
	MP	-0.8	-1.6	-2.7	-2.3	-2.3	-1.9	-3.0	-2.9	-2.7	-3.9
MH2	FS	-0.7	-1.2	-2.0	-2.3	-2.1	-1.6	-2.5	-2.1	-1.8	-2.6
	MP	-1.3	-2.1	-2.8	-2.5	-2.6	-1.8	-2.6	-2.0	-1.9	-3.0
MH3	FS	-0.8	-1.2	-2.1	-2.4	-2.0	-1.5	-2.4	-2.0	-1.9	-1.9
	MP	-1.5	-1.9	-3.2	-2.9	-3.0	-1.5	-2.3	-2.3	-2.4	-2.8
MH4	FS	-1.2	-1.8	-2.7	-2.4	-2.7	-2.0	-2.8	-2.4	-3.0	-3.0
	MP	-0.9	-1.3	-2.4	-2.3	-2.3	-1.8	-2.0	-1.5	-1.7	-2.1

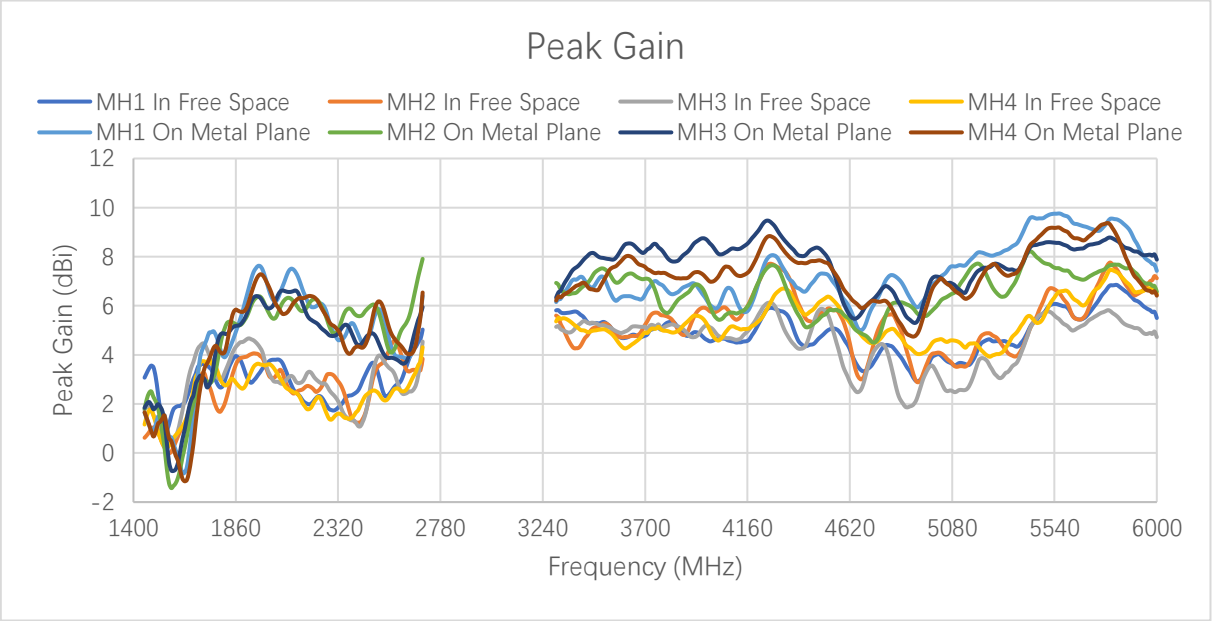


Average Gain(dB)-GNSS

Frequency (MHz)	1176	1207	1227	1248	1268	1561	1575	1602
Average Gain(dB)	-0.9					-3.37	-2.47	-4.03

3.2.3. Peak Gain





Peak Gain (dBi)

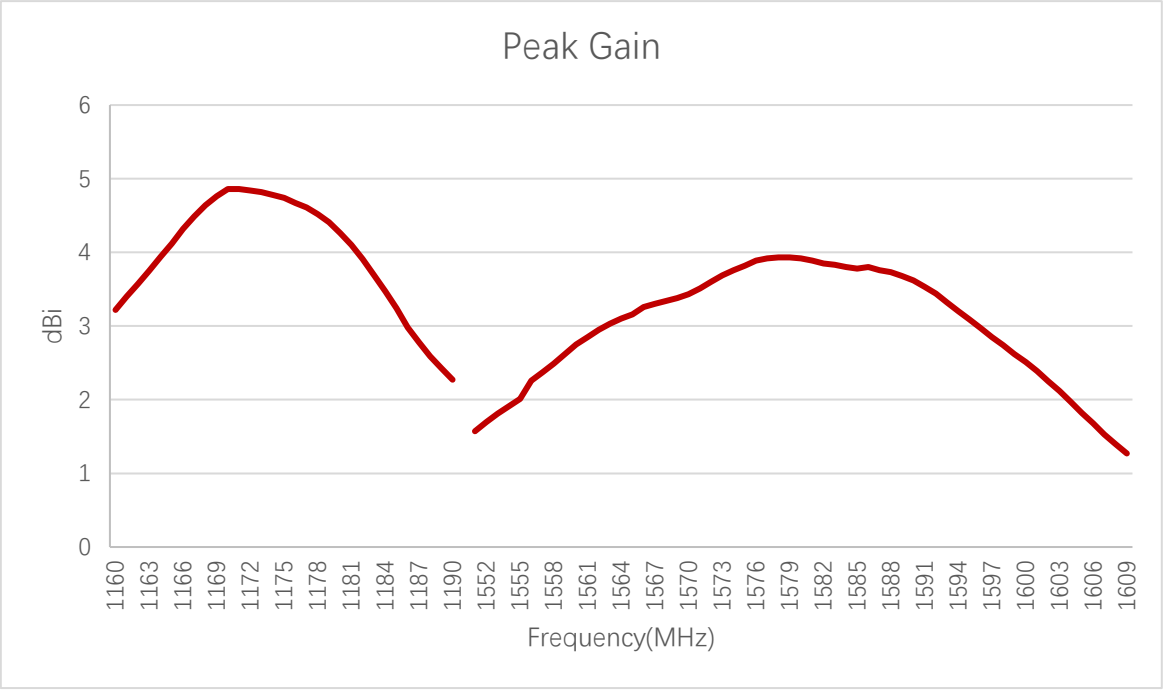
Frequency (MHz)		600	630	710	830	900	960	1440	1710	1740	1880
LMH1	FS	-1.2	0.0	0.7	1.3	1.9	1.2	-0.4	4.3	3.8	2.9
	MP	-2.1	-1.8	2.3	4.3	3.8	3.4	2.6	6.9	6.4	6.0
LMH2	FS	-2.6	-1.4	2.3	3.3	1.2	1.0	0.3	4.9	4.7	3.7
	MP	-1.2	-0.7	1.7	4.2	4.0	6.1	3.3	7.5	6.9	6.8
LMH3	FS	-2.5	-1.4	1.4	1.0	0.6	0.5	0.0	4.3	3.6	3.1
	MP	-2.1	-1.5	1.5	4.4	3.9	5.7	2.9	7.0	6.4	5.4
LMH4	FS	-0.9	0.2	1.5	1.9	2.4	2.1	-0.5	4.4	3.9	3.4
	MP	-1.3	-2.4	2.7	4.5	3.3	4.8	2.1	7.1	6.5	6.2

Frequency (MHz)		1950	2140	2350	2450	2600	3600	4700	5000	5500	6000
LMH1	FS	3.8	3.1	2.0	2.5	2.2	4.9	4.4	4.4	4.3	3.0
	MP	7.3	7.8	5.4	5.6	3.0	5.1	6.8	6.0	5.0	1.9
LMH2	FS	4.1	3.8	2.1	2.8	1.9	4.6	4.8	4.3	4.3	3.1
	MP	7.2	6.8	5.7	5.7	4.1	6.4	5.0	5.3	5.5	6.9
LMH3	FS	3.9	3.4	2.2	3.3	1.9	4.6	4.5	4.3	4.2	3.1
	MP	6.7	6.9	4.6	4.9	2.3	5.0	6.2	5.7	6.4	6.0
LMH4	FS	4.0	3.2	2.5	2.5	2.4	4.8	4.0	3.0	4.6	4.5
	MP	7.1	6.8	5.4	4.9	4.9	5.1	5.9	3.6	4.0	5.5

Peak Gain (dBi)

Frequency (MHz)		600	630	710	830	900	960	1440	1710	1740	1880
MH1	FS	-	-	-	-	-	-	3.1	3.6	3.5	3.8
	MP	-	-	-	-	-	-	1.7	4.2	4.9	5.5
MH2	FS	-	-	-	-	-	-	0.6	3.3	2.7	3.9
	MP	-	-	-	-	-	-	1.8	3.0	2.9	5.2
MH3	FS	-	-	-	-	-	-	1.8	4.5	4.0	4.5
	MP	-	-	-	-	-	-	1.8	3.1	2.8	5.2

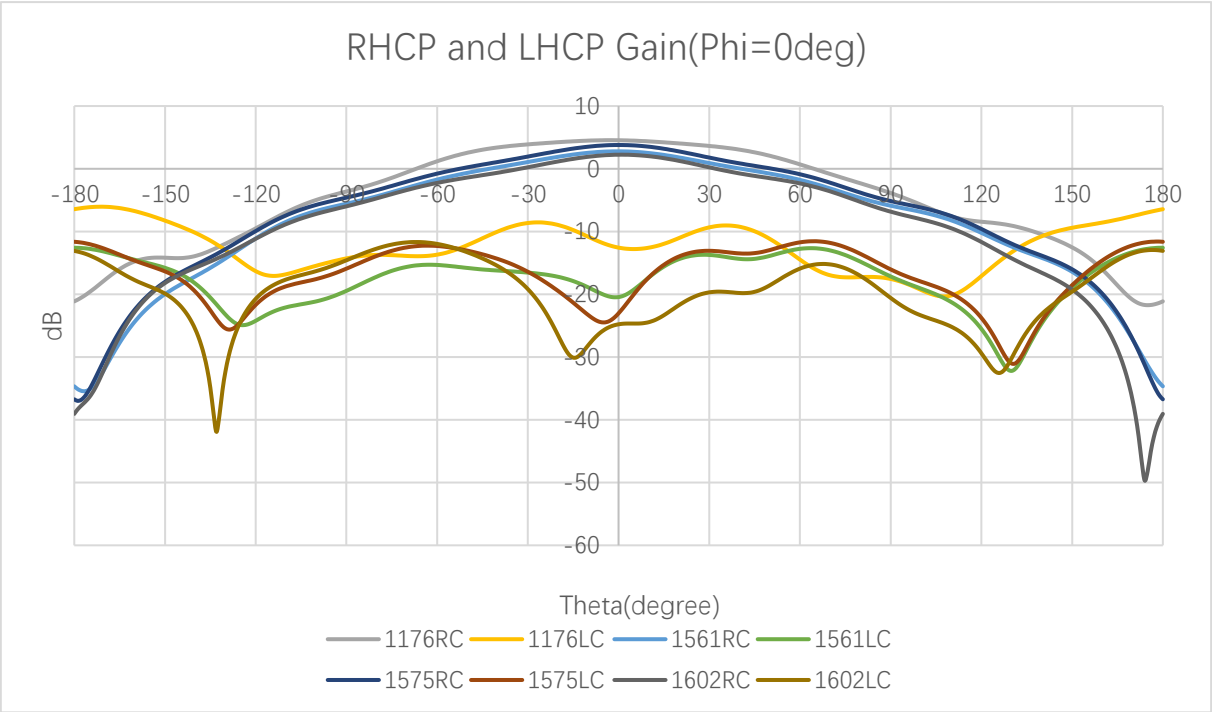
MH4	FS	-	-	-	-	-	-	1.2	3.7	3.8	2.7
	MP	-	-	-	-	-	-	1.7	3.1	3.8	5.8
Frequency (MHz)		1950	2140	2350	2450	2600	3600	4700	5000	5500	6000
MH1	FS	3.1	2.4	2.2	3.3	2.9	4.7	3.4	4.0	5.8	5.5
	MP	7.5	7.2	4.8	4.6	3.9	6.4	5.5	6.9	9.6	7.4
MH2	FS	4.1	2.5	2.4	1.9	4.1	4.7	3.6	4.1	6.4	7.1
	MP	6.3	5.9	5.7	5.9	4.9	7.1	4.7	5.9	7.7	6.6
MH3	FS	4.5	2.9	1.5	1.9	2.5	4.9	3.5	3.5	5.8	4.7
	MP	6.4	6.5	5.2	4.8	3.7	8.4	6.1	7.2	8.6	7.9
MH4	FS	3.6	2.4	1.4	2.4	2.6	4.3	4.6	4.6	5.7	6.5
	MP	7.0	6.3	4.3	4.6	4.4	7.9	6.1	6.8	9.1	6.4

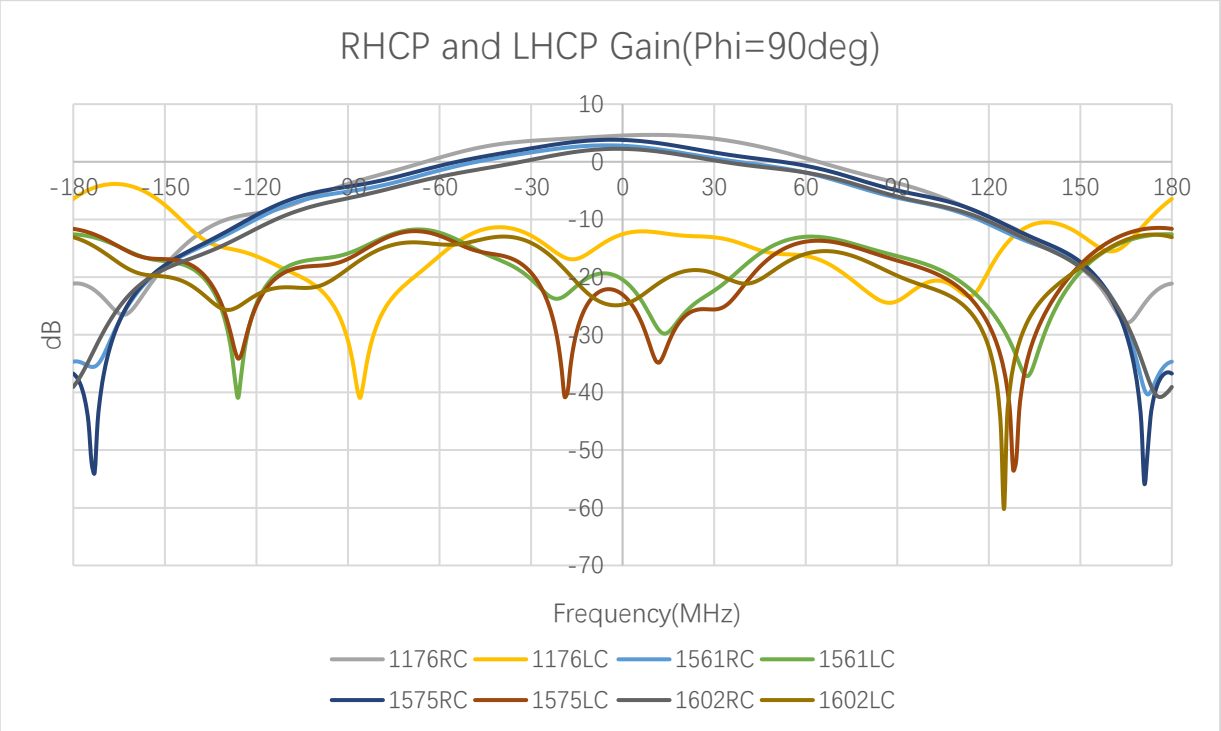


Peak Gain(dBi)-GNSS

Frequency (MHz)	1176	1207	1227	1248	1268	1561	1575	1602
Peak Gain(dBi)	4.67					2.85	3.82	2.25

3.2.4. GNSS 2D RHCP and LHCP Gain



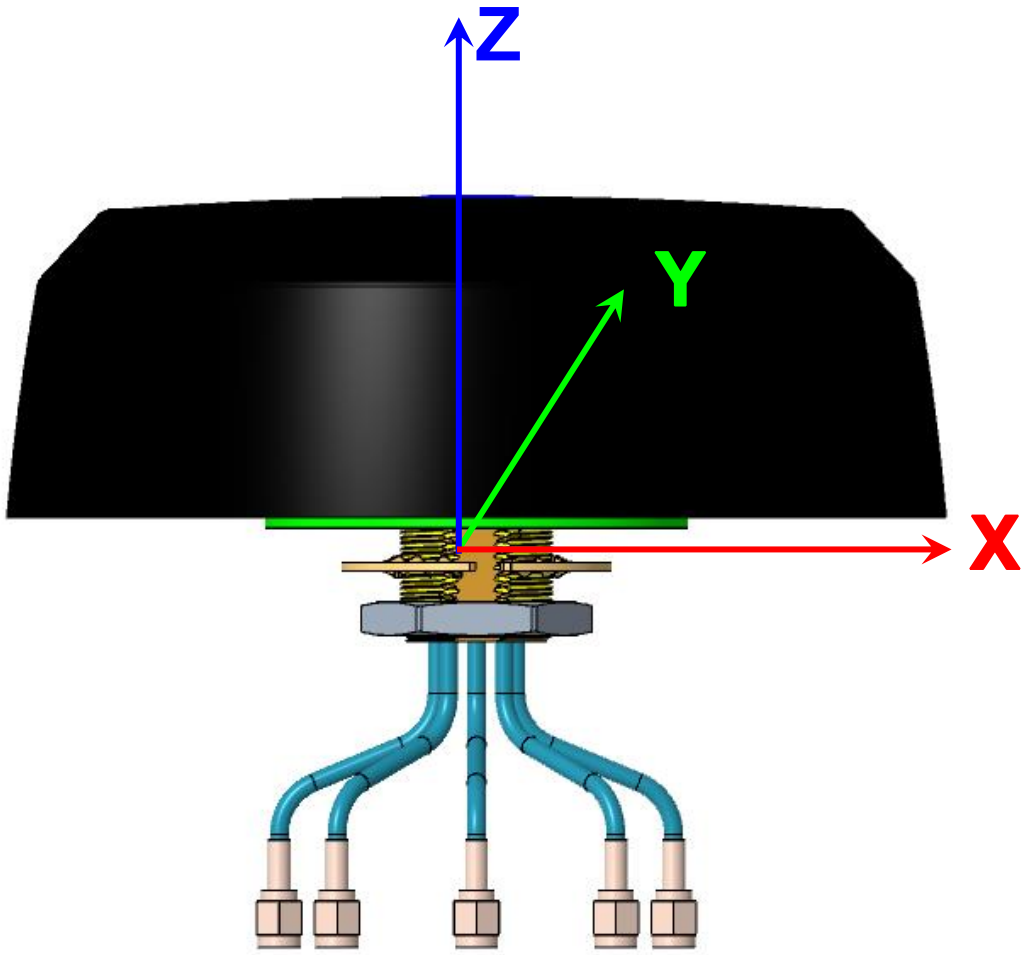


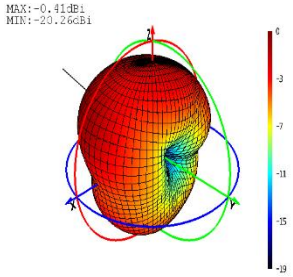
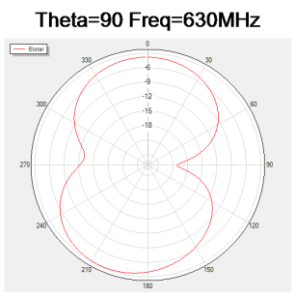
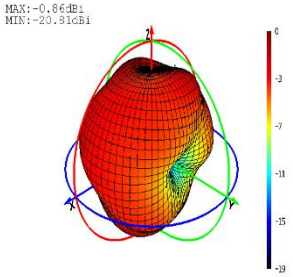
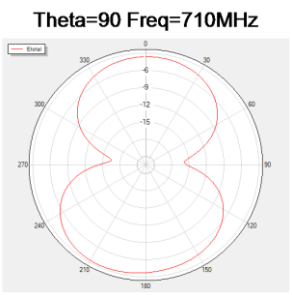
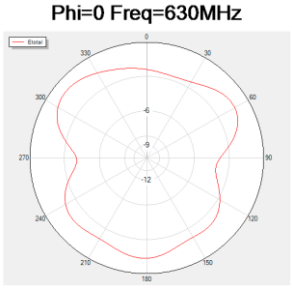
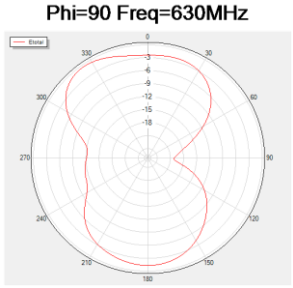
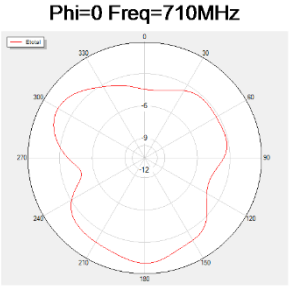
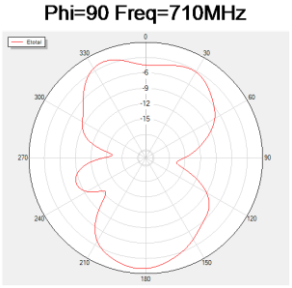
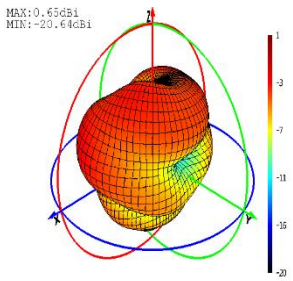
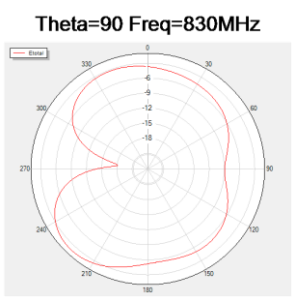
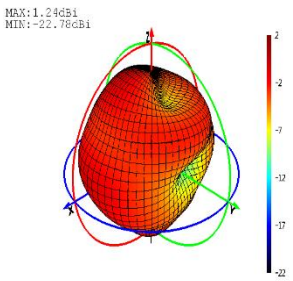
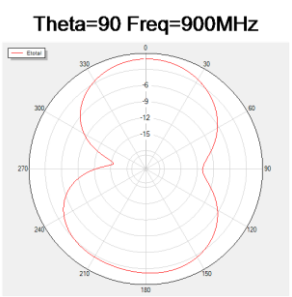
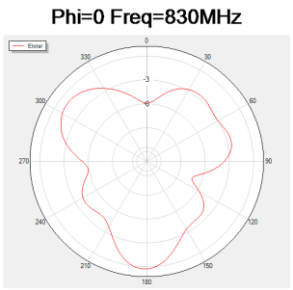
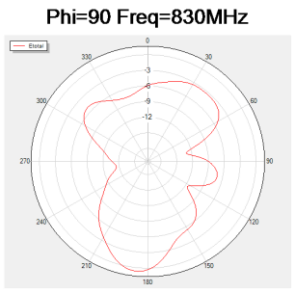
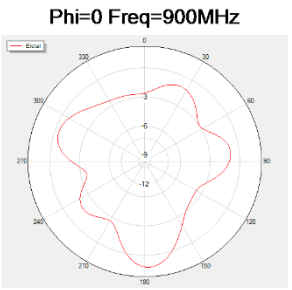
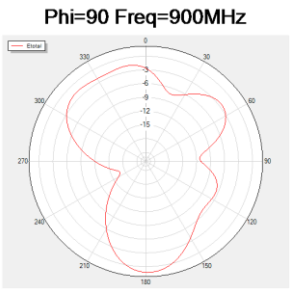
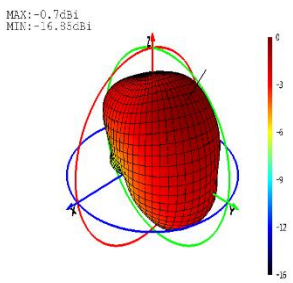
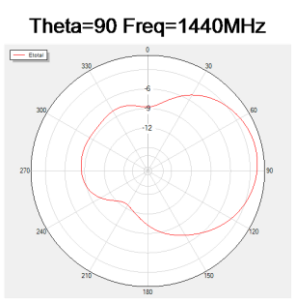
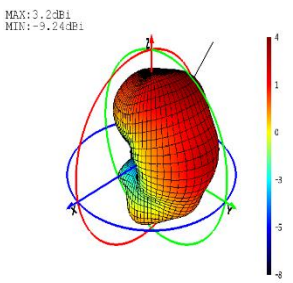
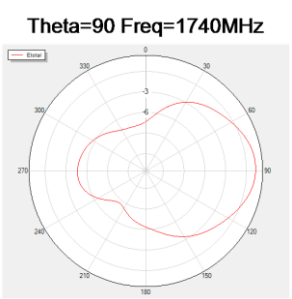
2D RHCP and LHCP Gain (dB)

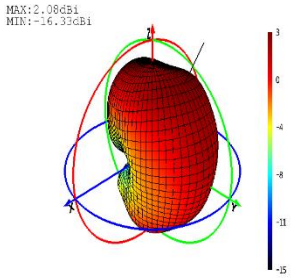
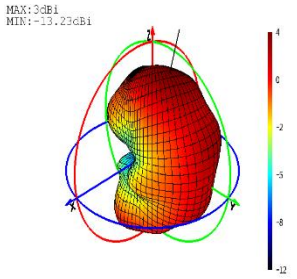
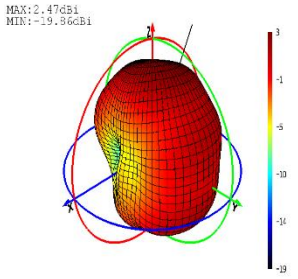
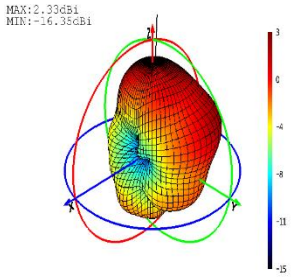
Frequency (MHz)		1176	1207	1227	1248	1268	1561	1575	1602
RC Gain(dB)	Phi = 0 (deg) Theta = 0 (deg)	4.55					2.78	3.79	2.24
	Phi = 90 (deg) Theta = 0 (deg)	4.55					2.78	3.79	2.24
LC Gain(dB)	Phi = 0 (deg) Theta = 0 (deg)	-12.56					-20.4	-23	-24.7
	Phi = 90 (deg) Theta = 0 (deg)	-12.56					-20.4	-23	-24.7

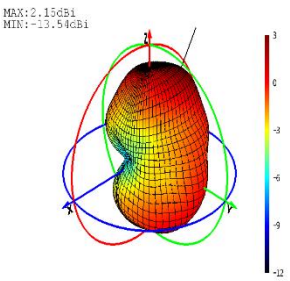
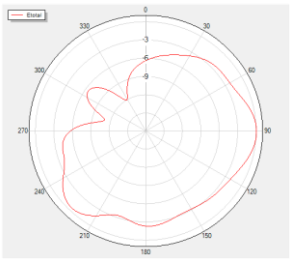
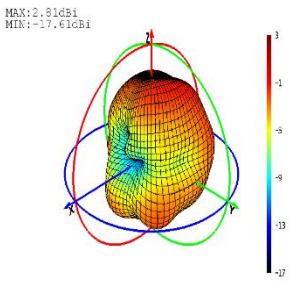
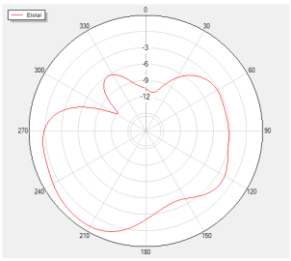
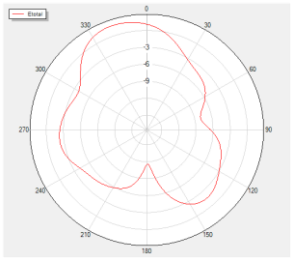
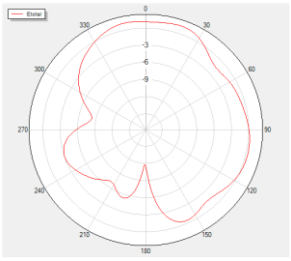
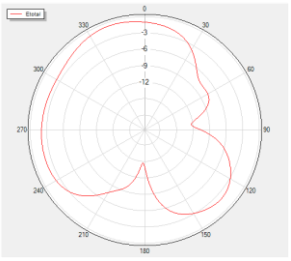
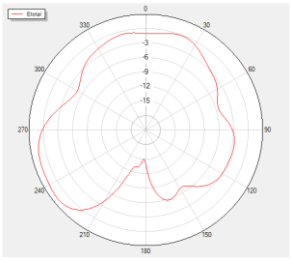
3.2.5. 3D & 2D Radiation Pattern

3.2.5.1. Test Status: In Free Space



LMH1			
630 MHz		710 MHz	
			
			
830 MHz		900 MHz	
			
			
1440 MHz		1740 MHz	
			

Phi=0 Freq=1440MHz	Phi=90 Freq=1440MHz	Phi=0 Freq=1740MHz	Phi=90 Freq=1740MHz
1880 MHz		1950 MHz	
	Theta=90 Freq=1880MHz		Theta=90 Freq=1950MHz
Phi=0 Freq=1880MHz	Phi=90 Freq=1880MHz	Phi=0 Freq=1950MHz	Phi=90 Freq=1950MHz
2140 MHz		2350 MHz	
	Theta=90 Freq=2140MHz		Theta=90 Freq=2350MHz
Phi=0 Freq=2140MHz	Phi=90 Freq=2140MHz	Phi=0 Freq=2350MHz	Phi=90 Freq=2350MHz
2450 MHz		2600 MHz	

	Theta=90 Freq=2450MHz 		Theta=90 Freq=2600MHz 
Phi=0 Freq=2450MHz 	Phi=90 Freq=2450MHz 	Phi=0 Freq=2600MHz 	Phi=90 Freq=2600MHz 
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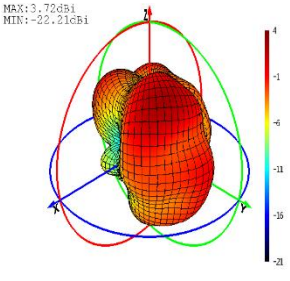
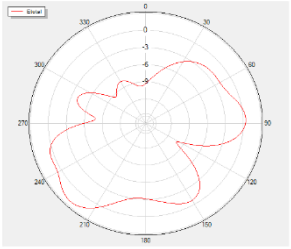
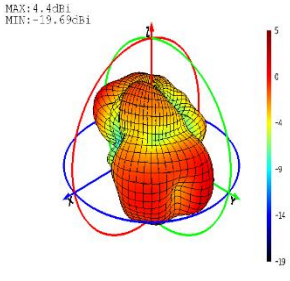
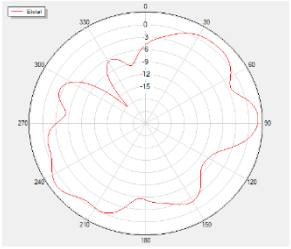
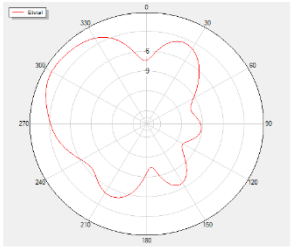
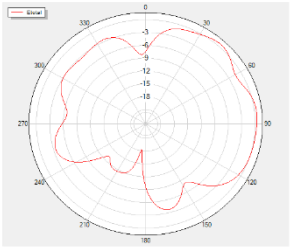
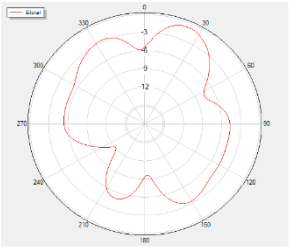
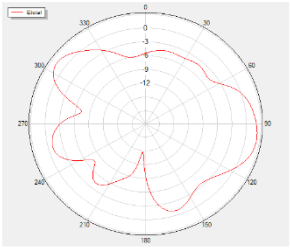
	Theta=90 Freq=3600MHz 		Theta=90 Freq=4000MHz 
Phi=0 Freq=3600MHz 	Phi=90 Freq=3600MHz 	Phi=0 Freq=4000MHz 	Phi=90 Freq=4000MHz 
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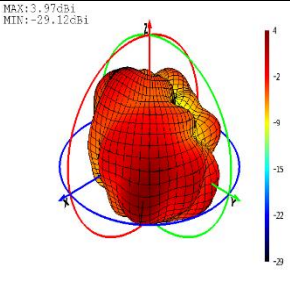
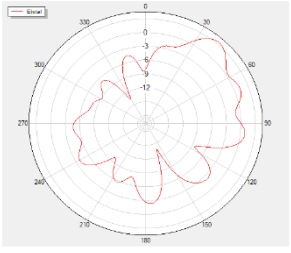
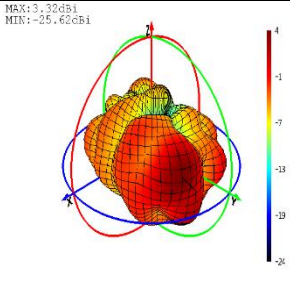
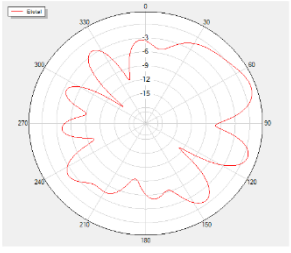
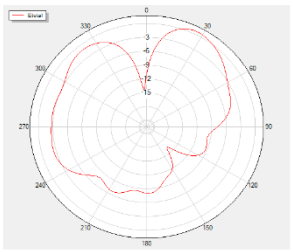
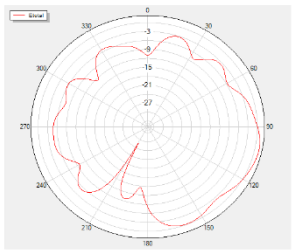
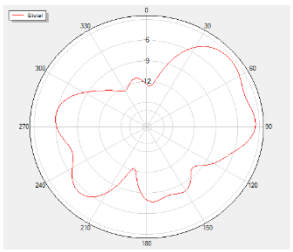
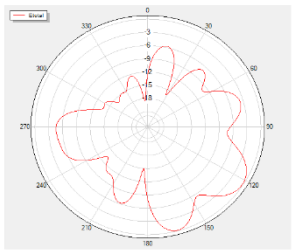
	Theta=90 Freq=4700MHz 		Theta=90 Freq=5500MHz 

Phi=0 Freq=4700MHz 	Phi=90 Freq=4700MHz 	Phi=0 Freq=5500MHz 	Phi=90 Freq=5500MHz 
LMH2			
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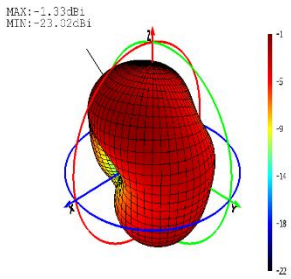
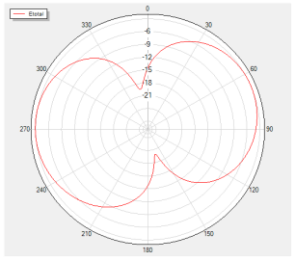
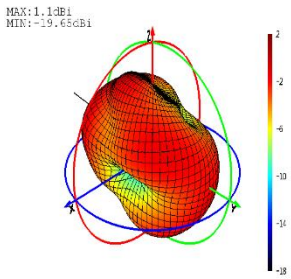
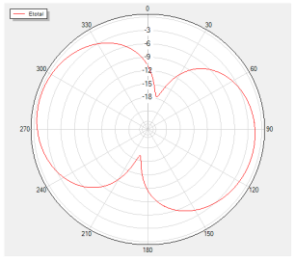
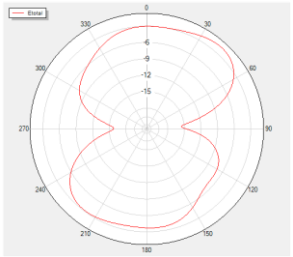
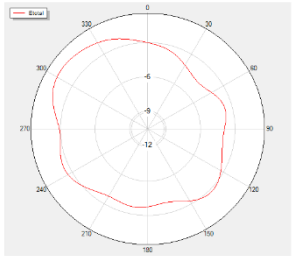
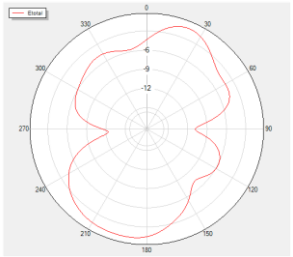
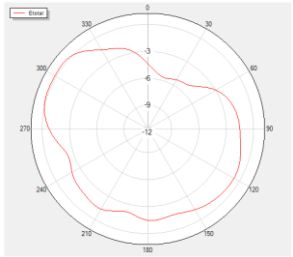
	Theta=90 Freq=630MHz 		Theta=90 Freq=710MHz 
Phi=0 Freq=630MHz 	Phi=90 Freq=630MHz 	Phi=0 Freq=710MHz 	Phi=90 Freq=710MHz 
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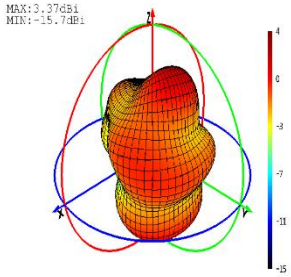
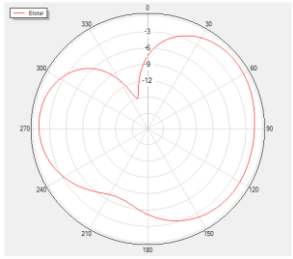
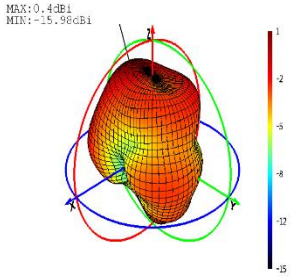
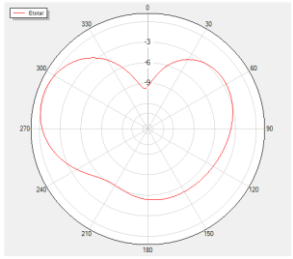
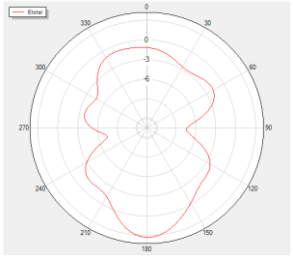
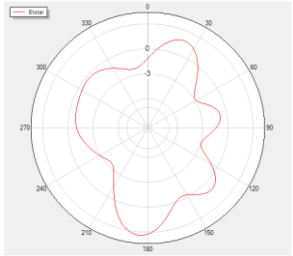
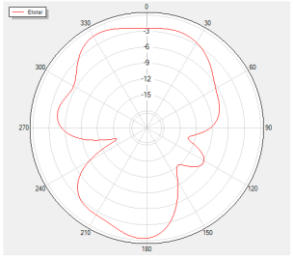
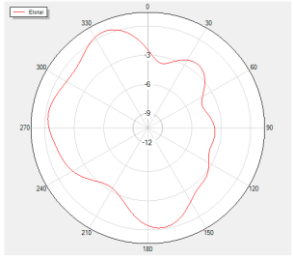
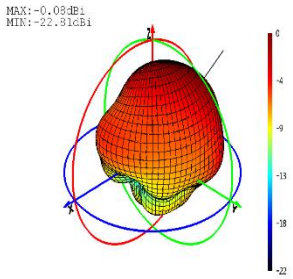
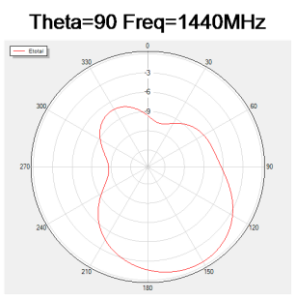
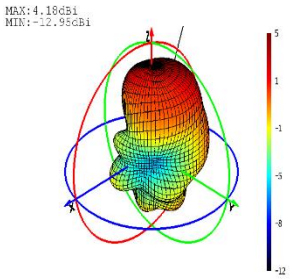
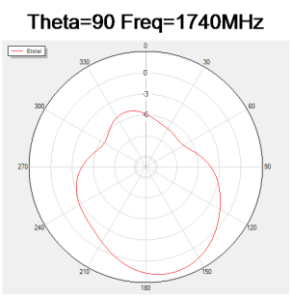
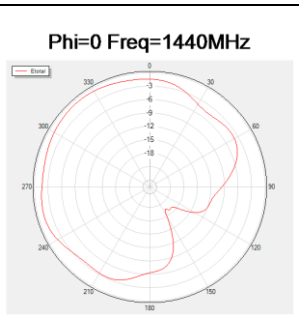
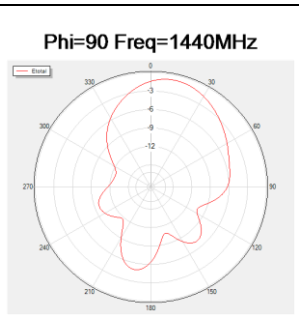
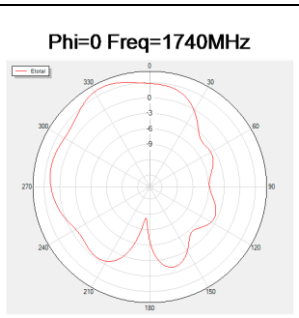
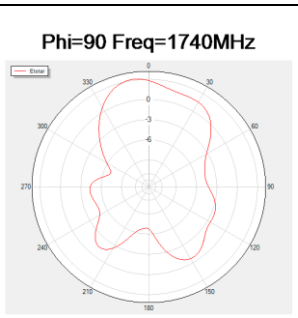
	Theta=90 Freq=830MHz 		Theta=90 Freq=900MHz 
Phi=0 Freq=830MHz 	Phi=90 Freq=830MHz 	Phi=0 Freq=900MHz 	Phi=90 Freq=900MHz 
1440 MHz		1740 MHz	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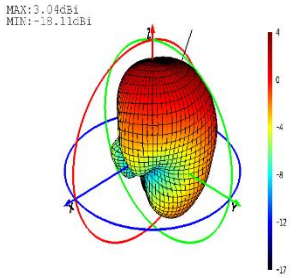
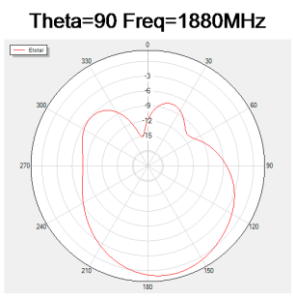
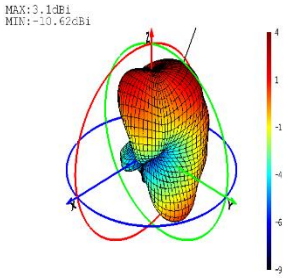
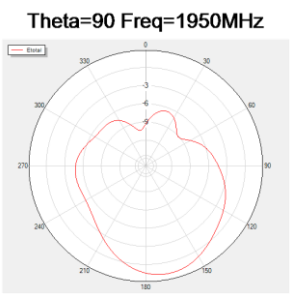
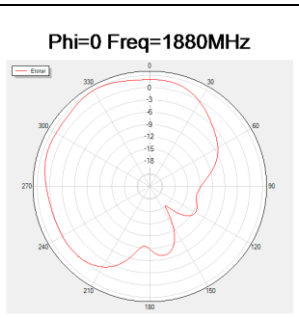
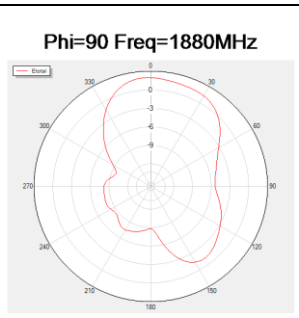
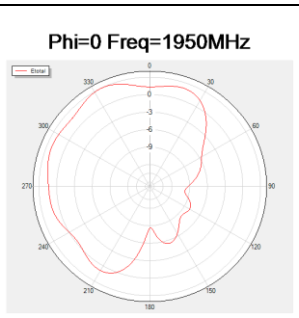
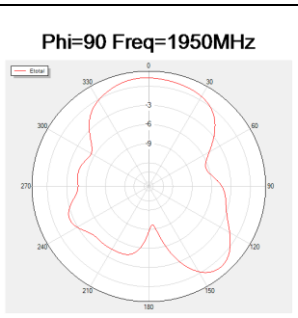
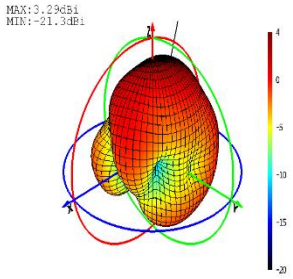
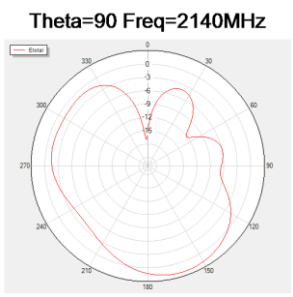
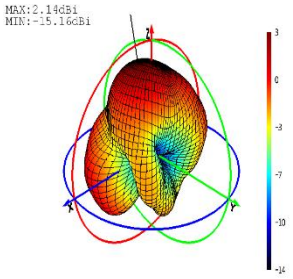
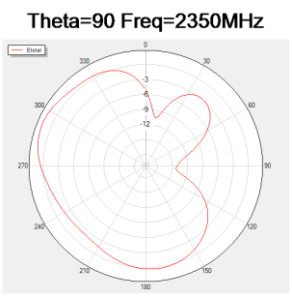
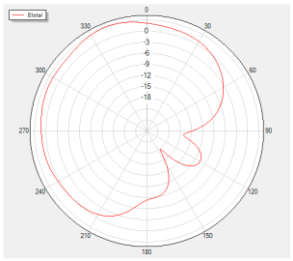
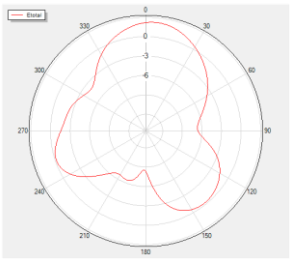
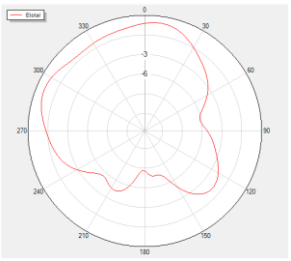
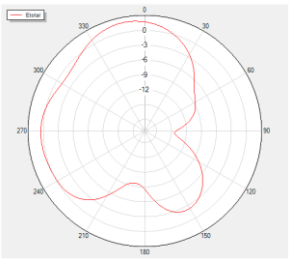
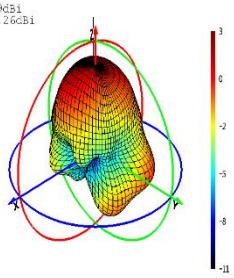
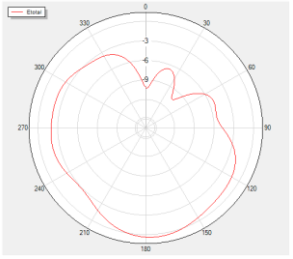
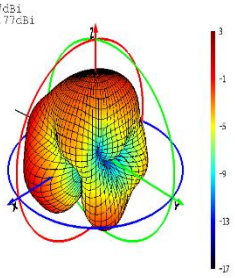
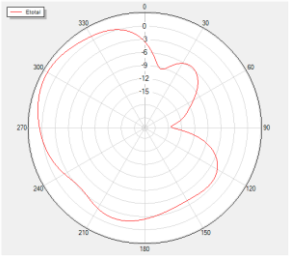
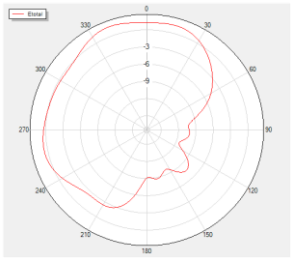
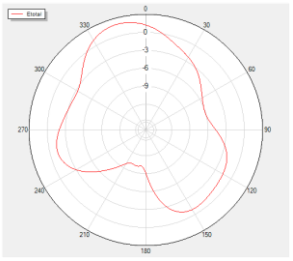
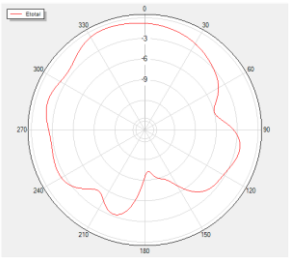
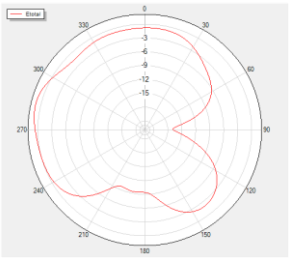
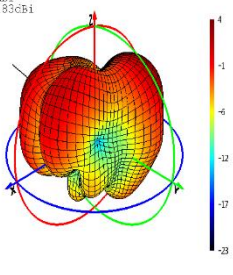
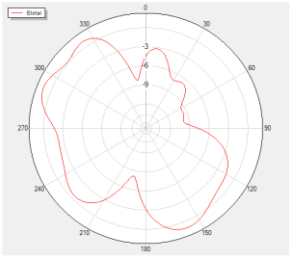
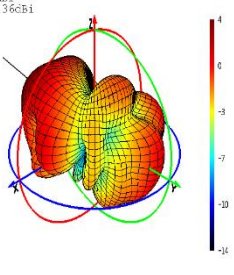
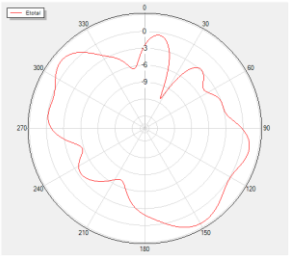
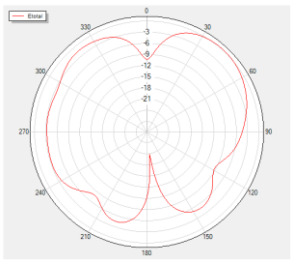
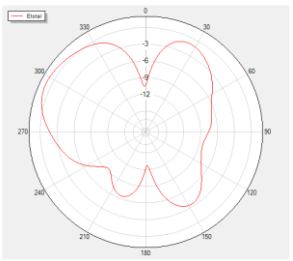
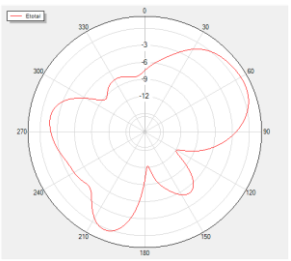
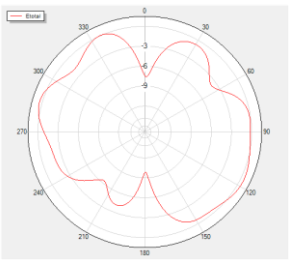
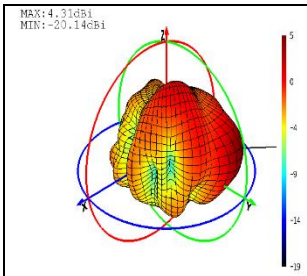
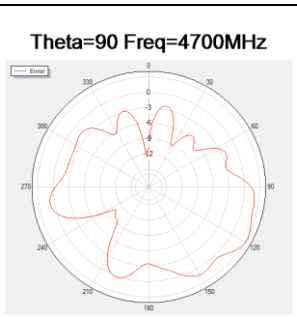
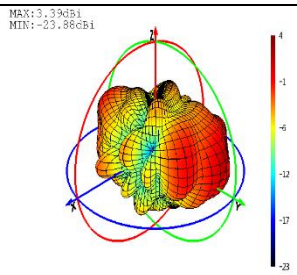
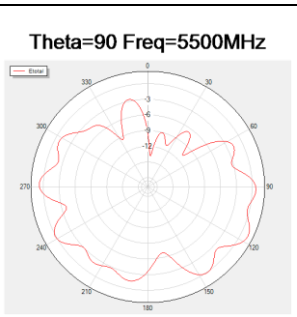
			
			
2140 MHz		2350 MHz	
			

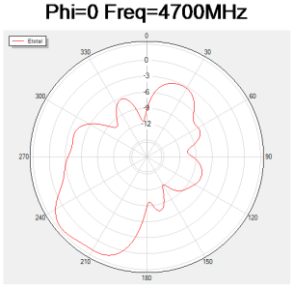
Phi=0 Freq=2140MHz 	Phi=90 Freq=2140MHz 	Phi=0 Freq=2350MHz 	Phi=90 Freq=2350MHz 
2450 MHz		2600 MHz	
MAX:2.39dBi MIN:-12.26dBi 	Theta=90 Freq=2450MHz 	MAX:2.57dBi MIN:-17.77dBi 	Theta=90 Freq=2600MHz 
Phi=0 Freq=2450MHz 	Phi=90 Freq=2450MHz 	Phi=0 Freq=2600MHz 	Phi=90 Freq=2600MHz 
3600 MHz		4000 MHz	
MAX:3.4dBi MIN:-23.83dBi 	Theta=90 Freq=3600MHz 	MAX:3.1dBi MIN:-15.36dBi 	Theta=90 Freq=4000MHz 
Phi=0 Freq=3600MHz 	Phi=90 Freq=3600MHz 	Phi=0 Freq=4000MHz 	Phi=90 Freq=4000MHz 
4700 MHz		5500 MHz	

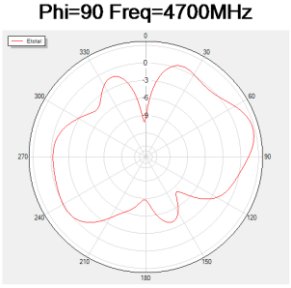


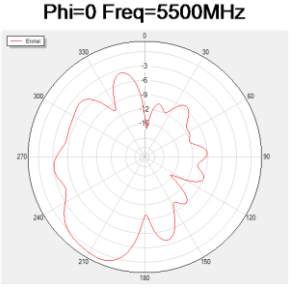


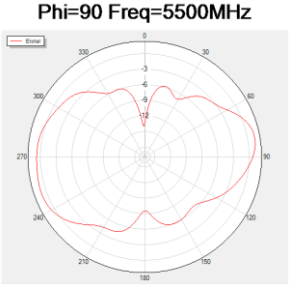






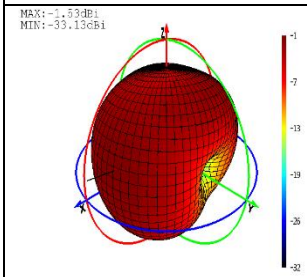


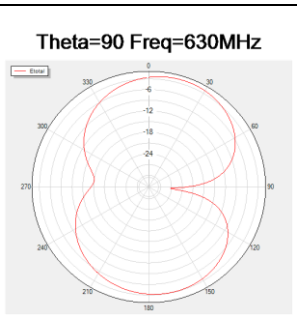




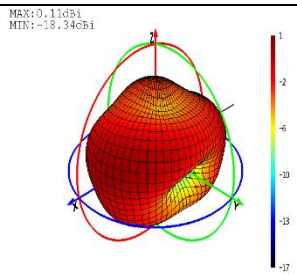
LMH3

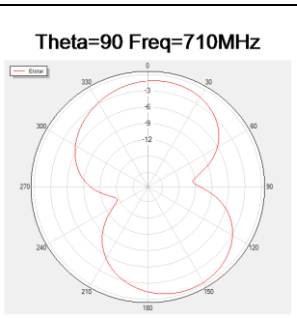
630 MHz

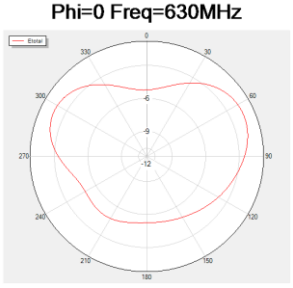


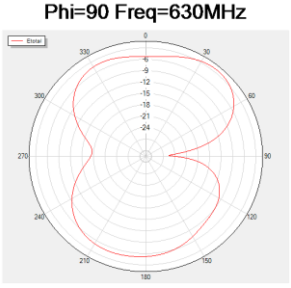


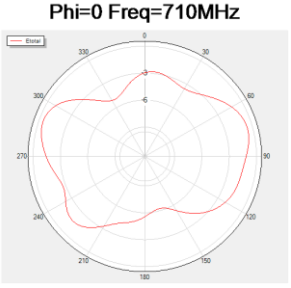
710 MHz

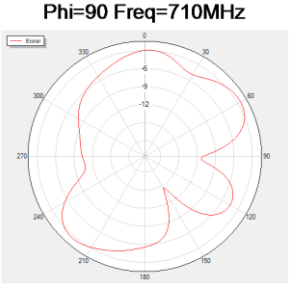




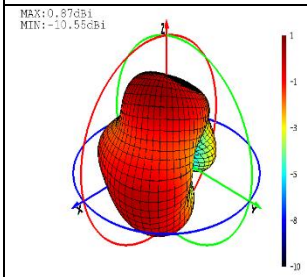


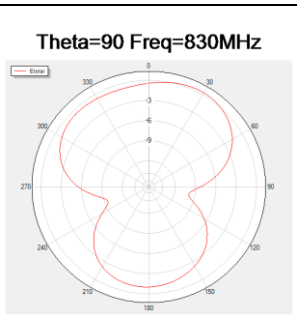




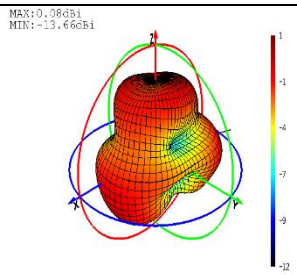


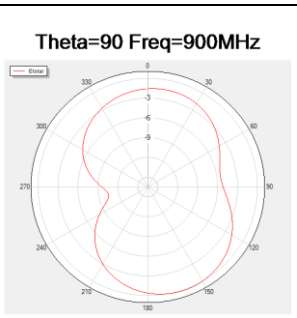
830 MHz

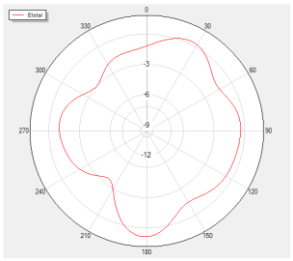
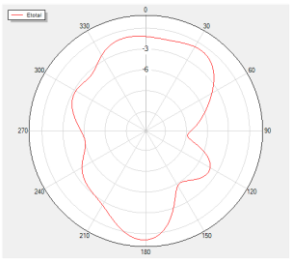
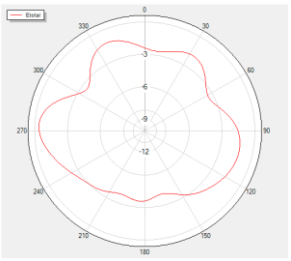
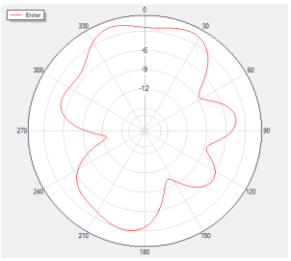
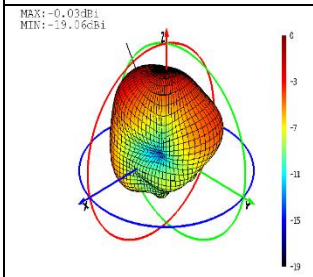
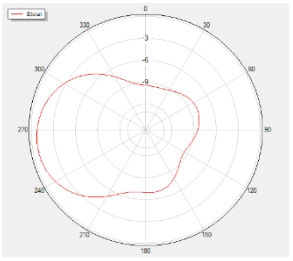
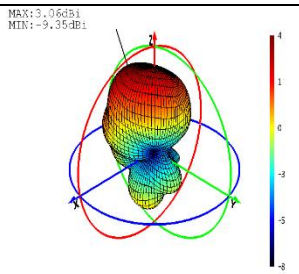
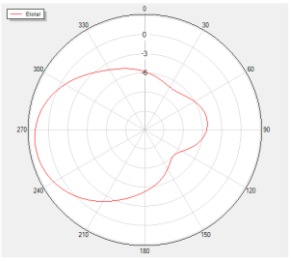
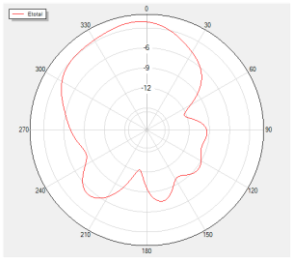
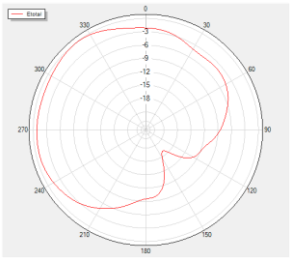
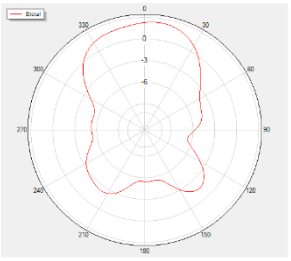
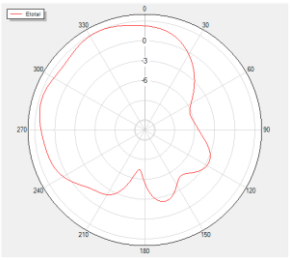
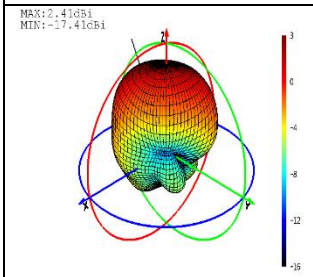
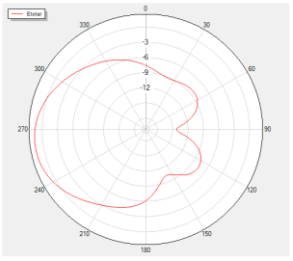
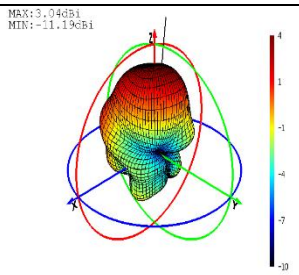
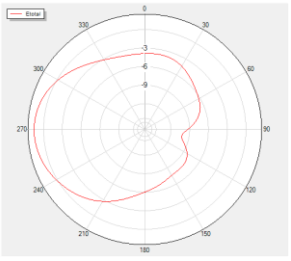
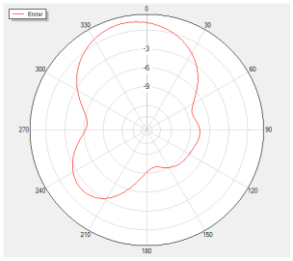
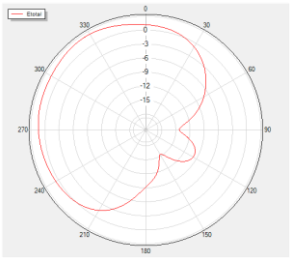
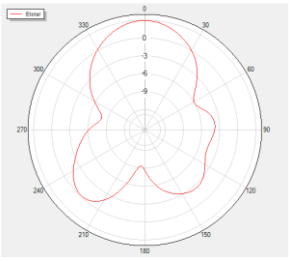
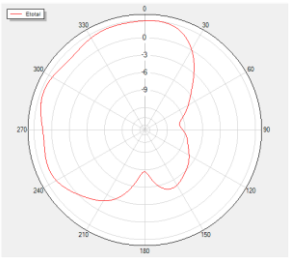


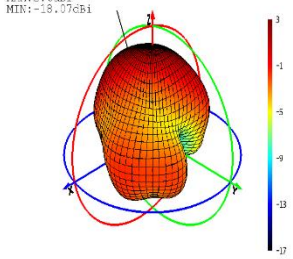


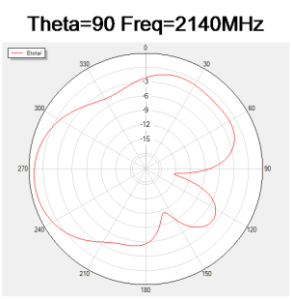
900 MHz

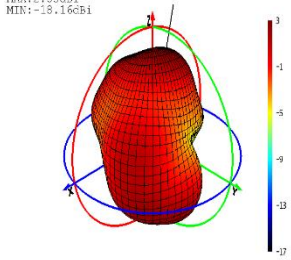


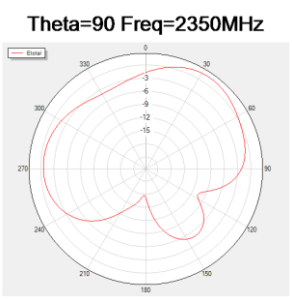


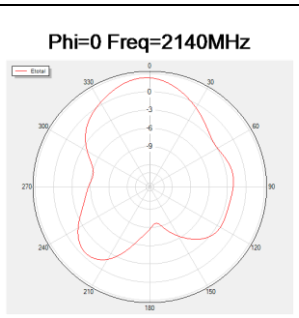
Phi=0 Freq=830MHz 	Phi=90 Freq=830MHz 	Phi=0 Freq=900MHz 	Phi=90 Freq=900MHz 
1440 MHz		1740 MHz	
	Theta=90 Freq=1440MHz 		Theta=90 Freq=1740MHz 
Phi=0 Freq=1440MHz 	Phi=90 Freq=1440MHz 	Phi=0 Freq=1740MHz 	Phi=90 Freq=1740MHz 
1880 MHz		1950 MHz	
	Theta=90 Freq=1880MHz 		Theta=90 Freq=1950MHz 
Phi=0 Freq=1880MHz 	Phi=90 Freq=1880MHz 	Phi=0 Freq=1950MHz 	Phi=90 Freq=1950MHz 
2140 MHz		2350 MHz	

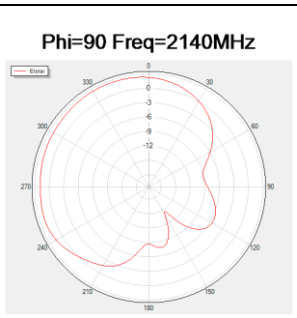


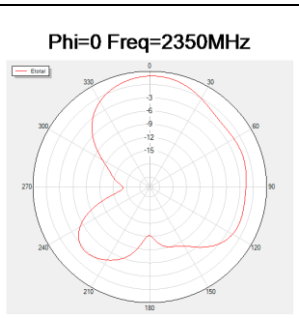


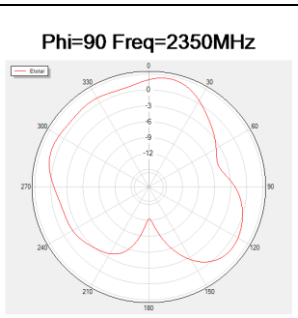






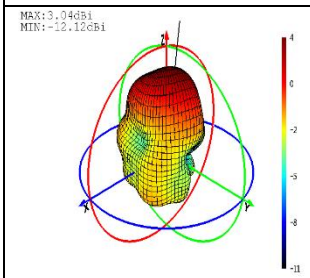


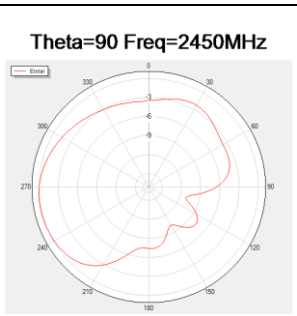


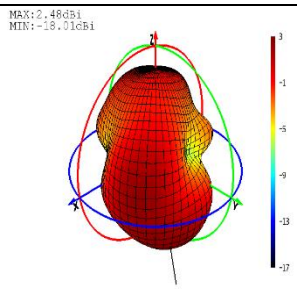


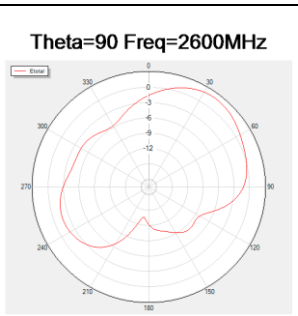
2450 MHz

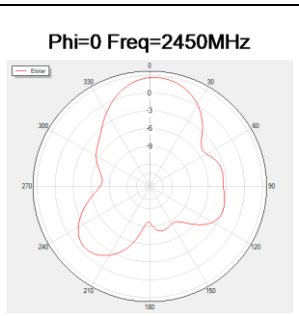
2600 MHz

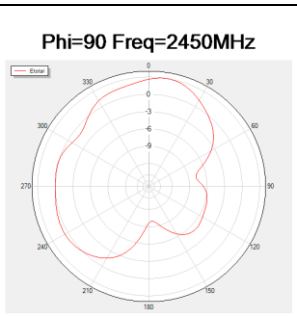


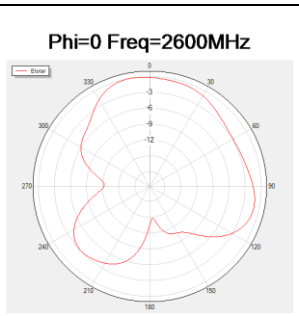


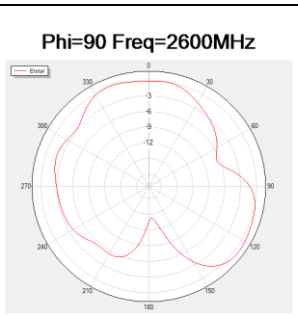






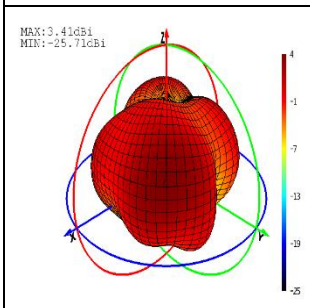


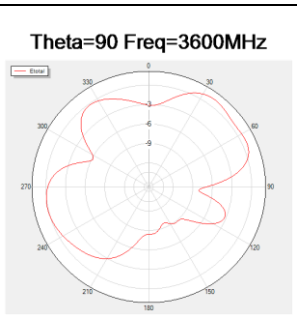


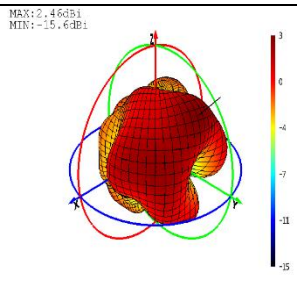


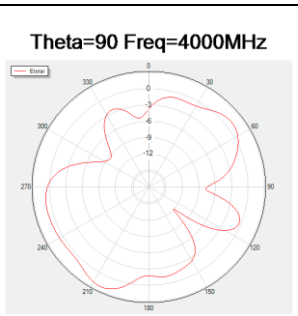
3600 MHz

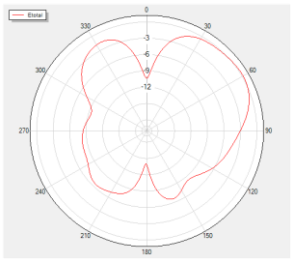
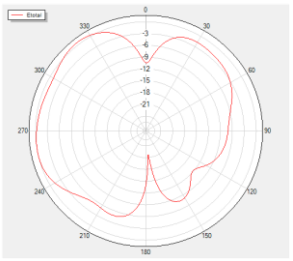
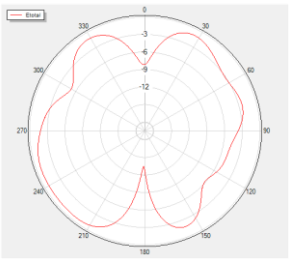
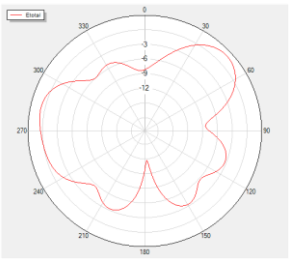
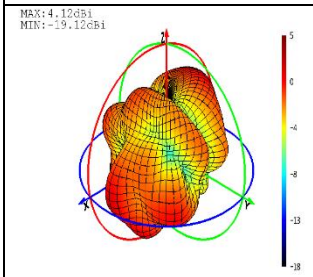
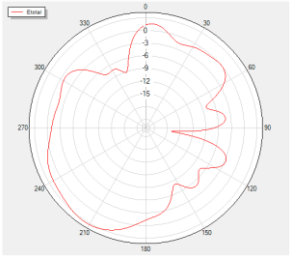
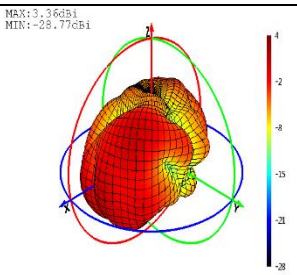
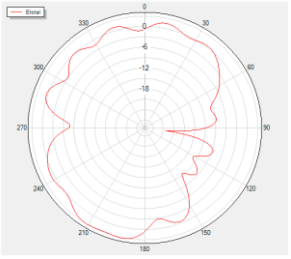
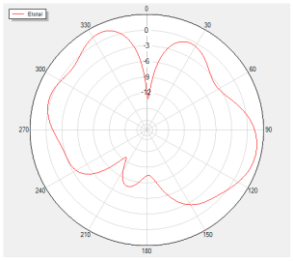
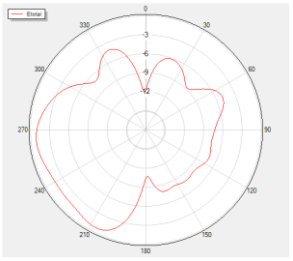
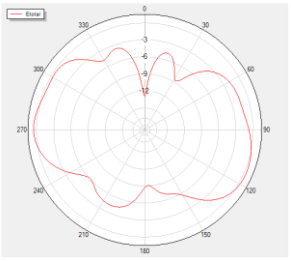
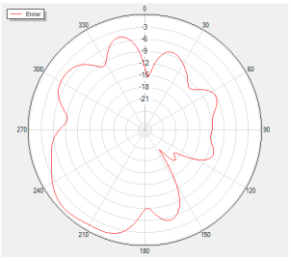
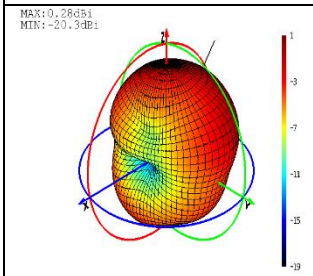
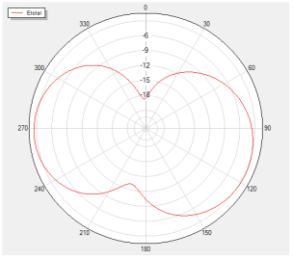
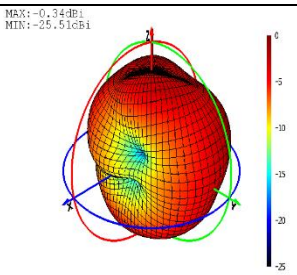
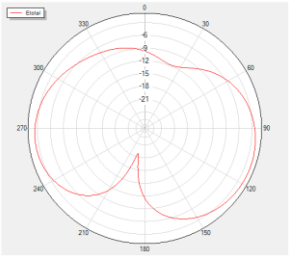
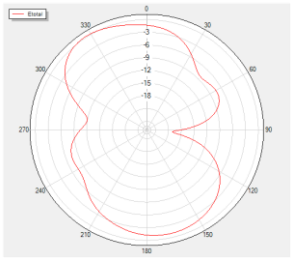
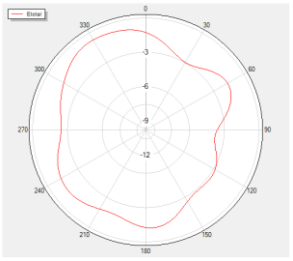
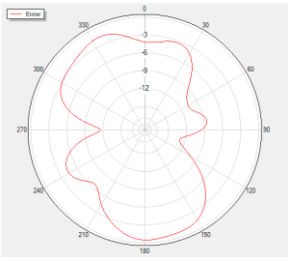
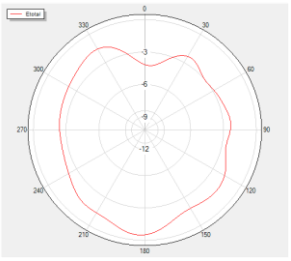
4000 MHz

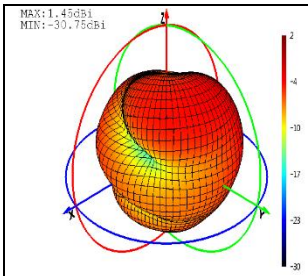


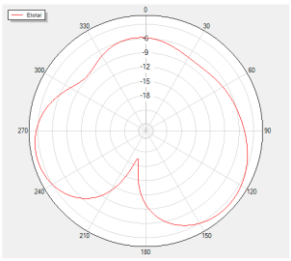


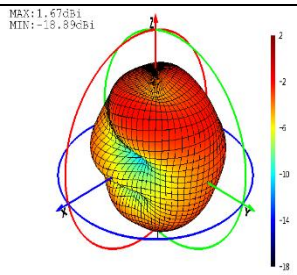


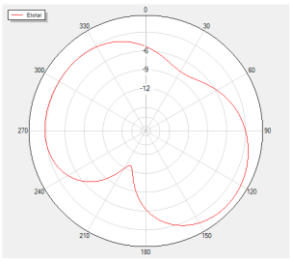


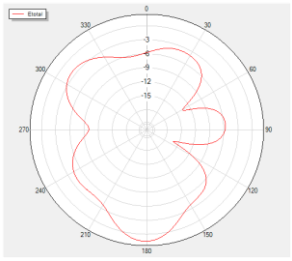
Phi=0 Freq=3600MHz 	Phi=90 Freq=3600MHz 	Phi=0 Freq=4000MHz 	Phi=90 Freq=4000MHz 
4700 MHz		5500 MHz	
	Theta=90 Freq=4700MHz 		Theta=90 Freq=5500MHz 
Phi=0 Freq=4700MHz 	Phi=90 Freq=4700MHz 	Phi=0 Freq=5500MHz 	Phi=90 Freq=5500MHz 
LMH4			
630 MHz		710 MHz	
	Theta=90 Freq=630MHz 		Theta=90 Freq=710MHz 
Phi=0 Freq=630MHz 	Phi=90 Freq=630MHz 	Phi=0 Freq=710MHz 	Phi=90 Freq=710MHz 
830 MHz		900 MHz	

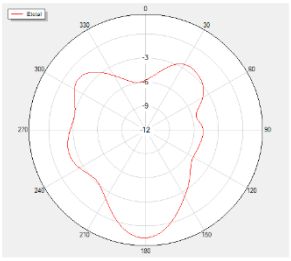


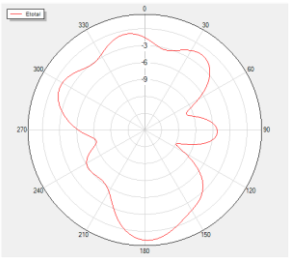


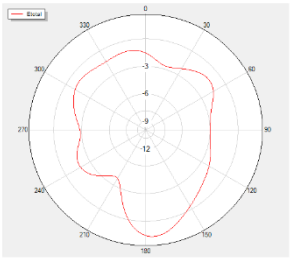






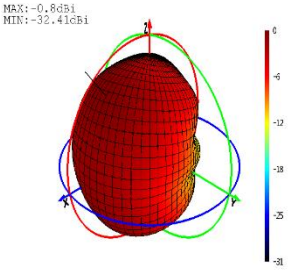


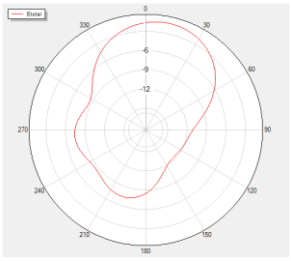


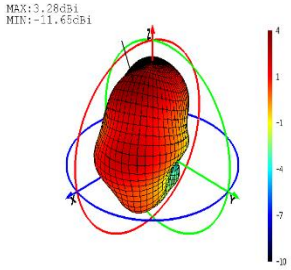


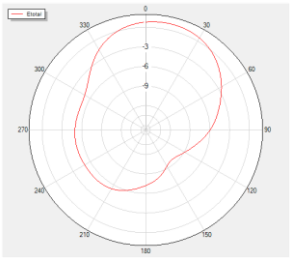
1440 MHz

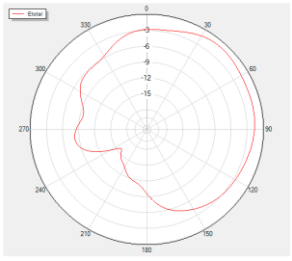
1740 MHz

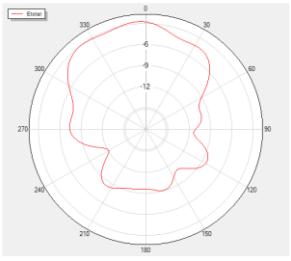


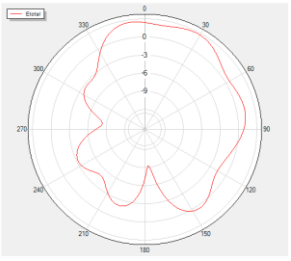


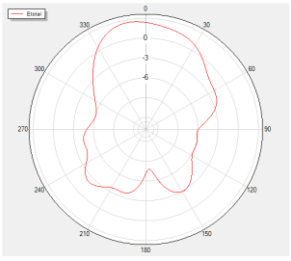






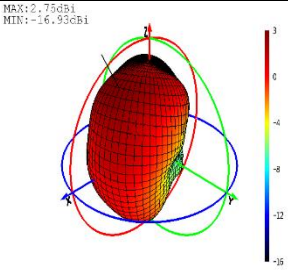


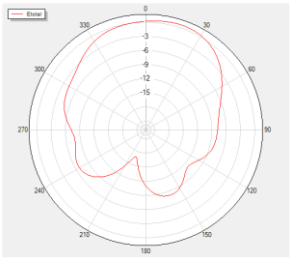


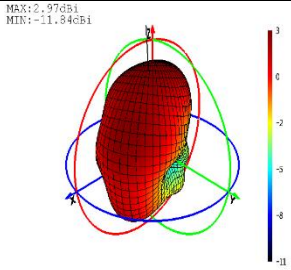


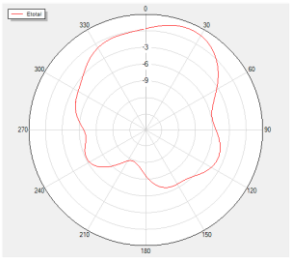
1880 MHz

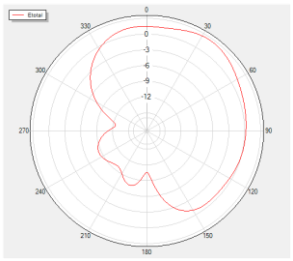
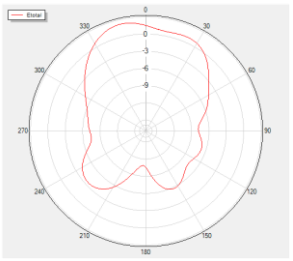
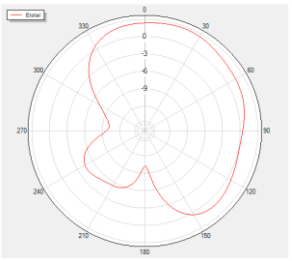
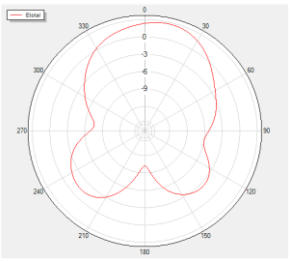
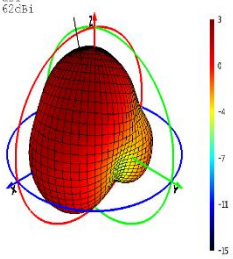
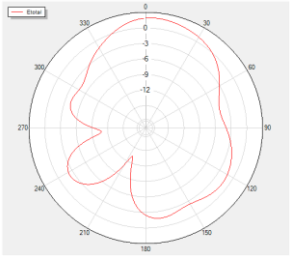
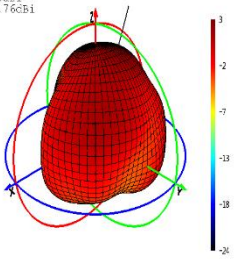
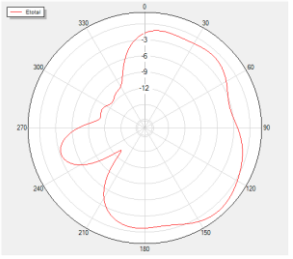
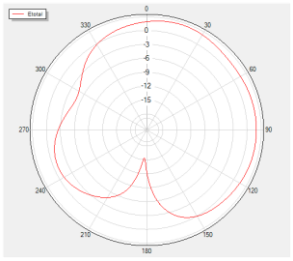
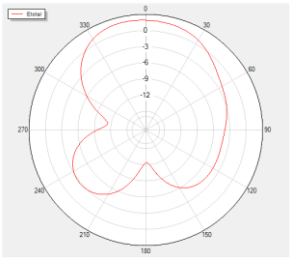
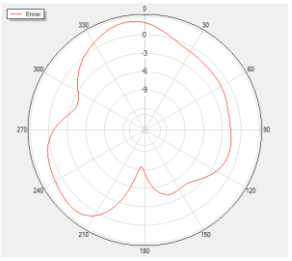
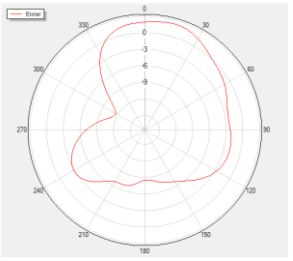
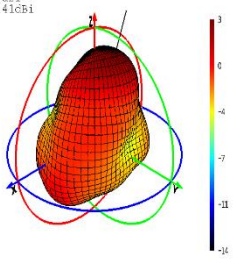
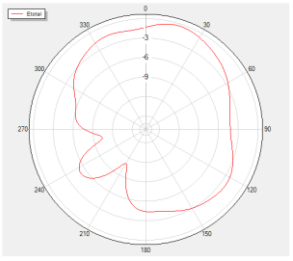
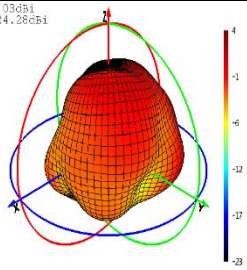
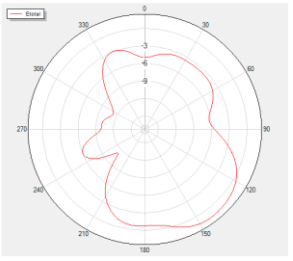
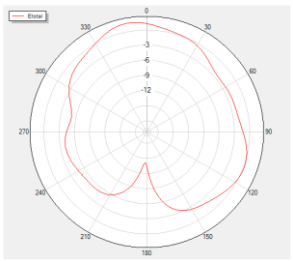
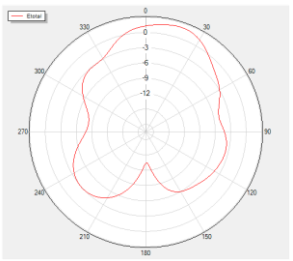
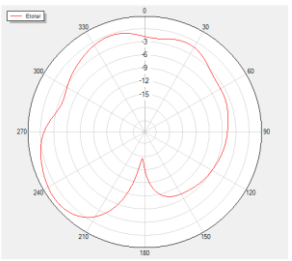
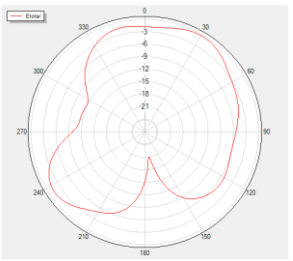
1950 MHz

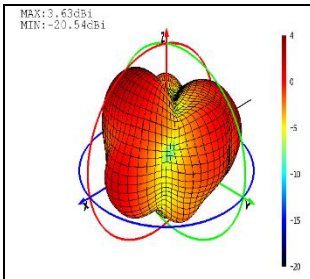


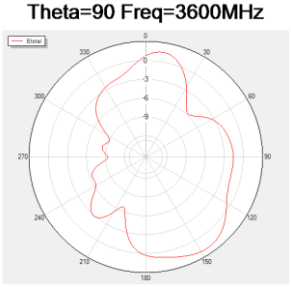


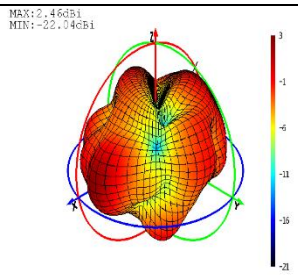


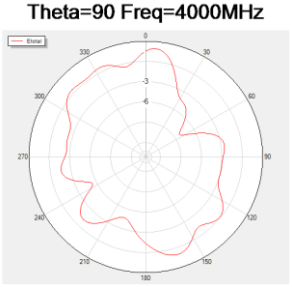


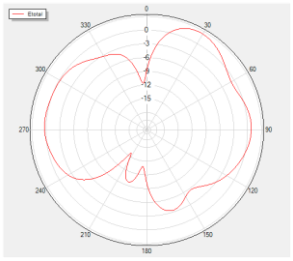
Phi=0 Freq=1880MHz 	Phi=90 Freq=1880MHz 	Phi=0 Freq=1950MHz 	Phi=90 Freq=1950MHz 
2140 MHz		2350 MHz	
MAX:2.67dBi MIN:-15.62dBi 	Theta=90 Freq=2140MHz 	MAX:2.65dBi MIN:-24.76dBi 	Theta=90 Freq=2350MHz 
Phi=0 Freq=2140MHz 	Phi=90 Freq=2140MHz 	Phi=0 Freq=2350MHz 	Phi=90 Freq=2350MHz 
2450 MHz		2600 MHz	
MAX:2.19dBi MIN:-15.41dBi 	Theta=90 Freq=2450MHz 	MAX:3.03dBi MIN:-24.28dBi 	Theta=90 Freq=2600MHz 
Phi=0 Freq=2450MHz 	Phi=90 Freq=2450MHz 	Phi=0 Freq=2600MHz 	Phi=90 Freq=2600MHz 
3600 MHz		4000 MHz	

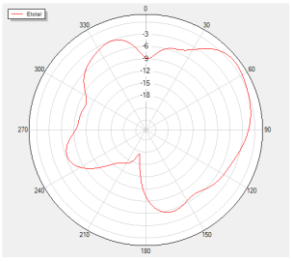


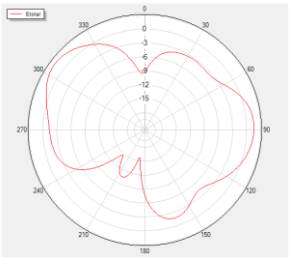


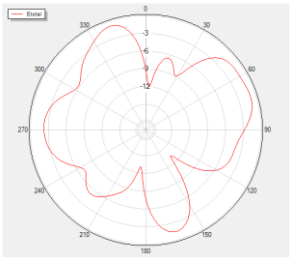






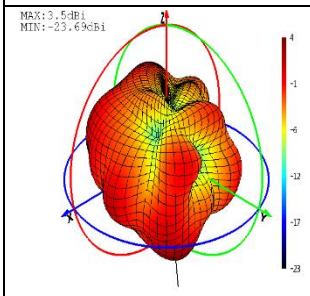


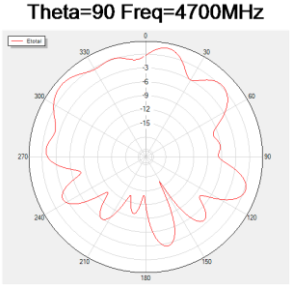


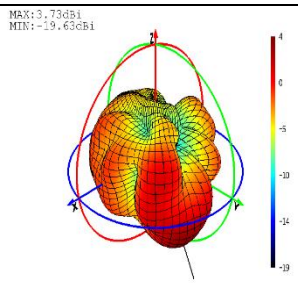


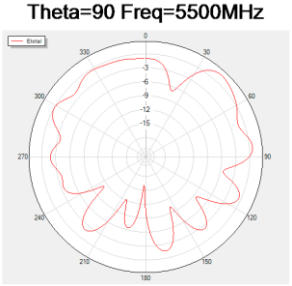
4700 MHz

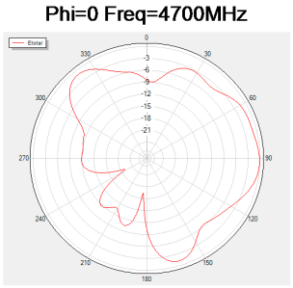
5500 MHz

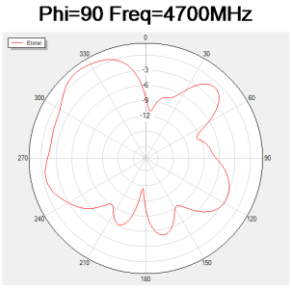


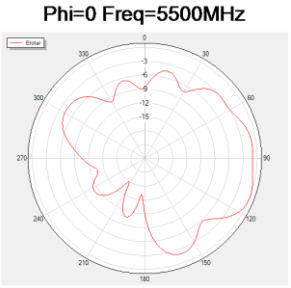


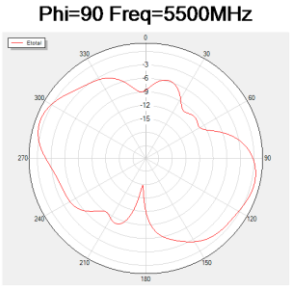








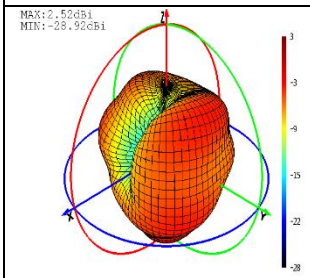


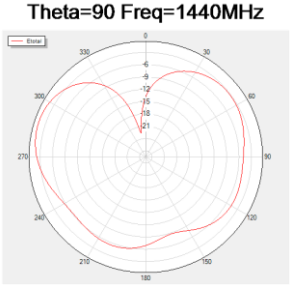


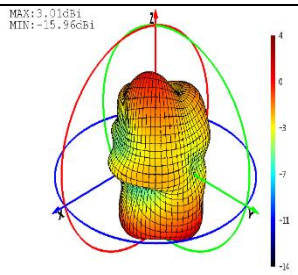
MH1

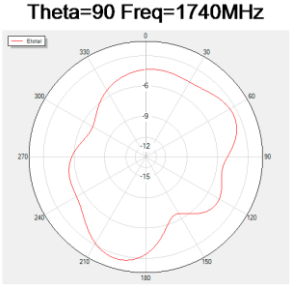
1440 MHz

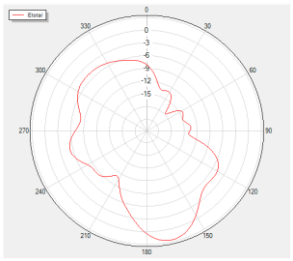
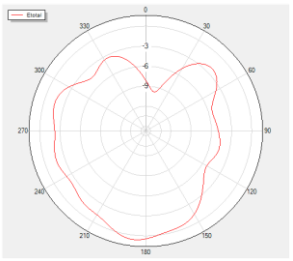
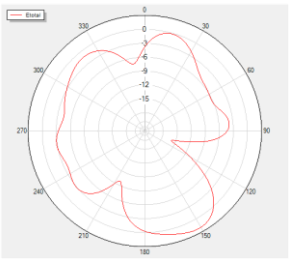
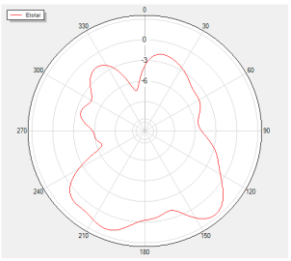
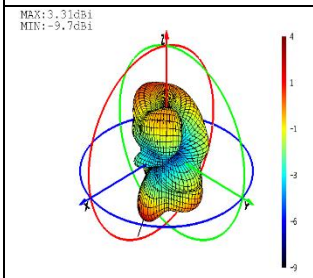
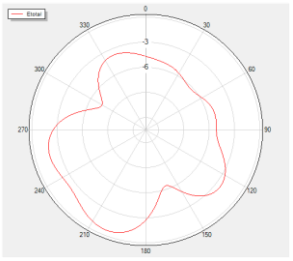
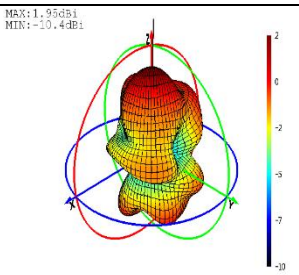
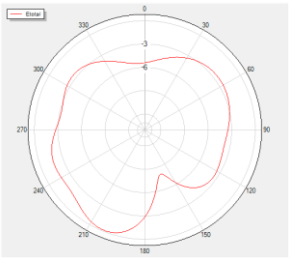
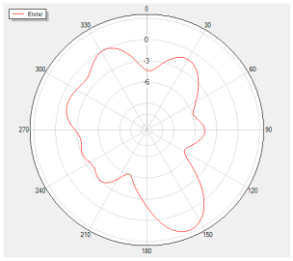
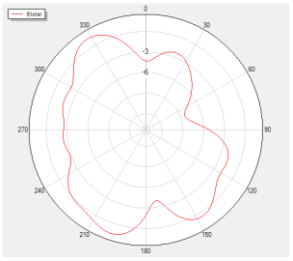
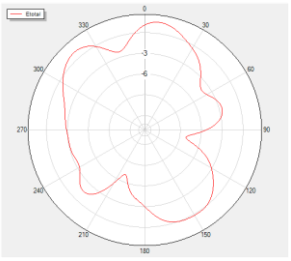
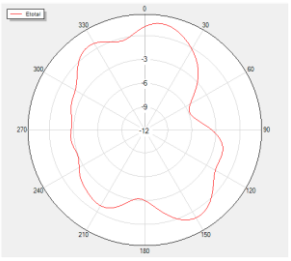
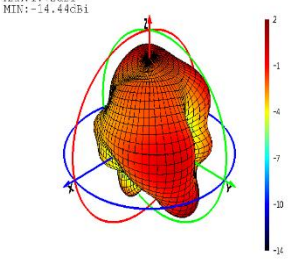
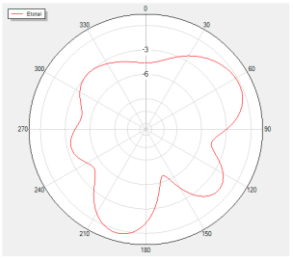
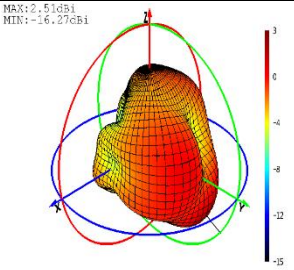
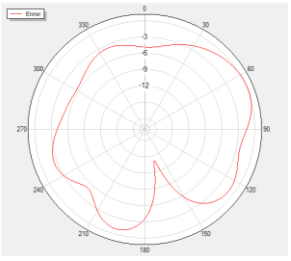
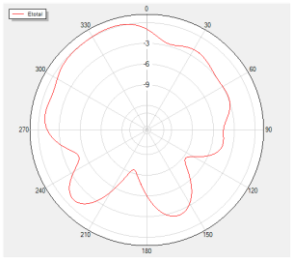
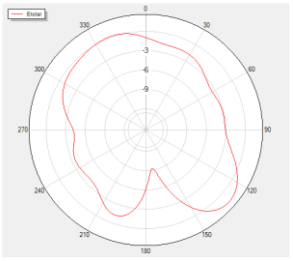
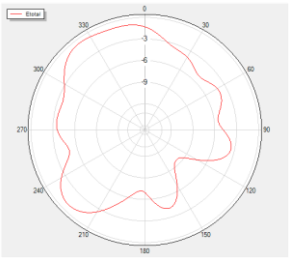
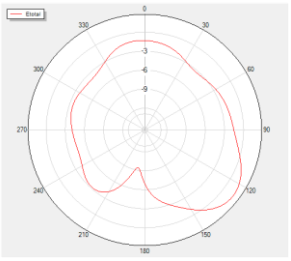
1740 MHz

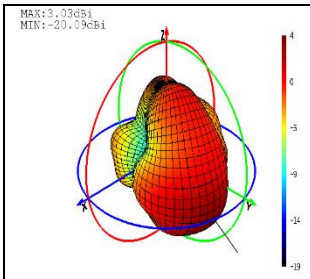


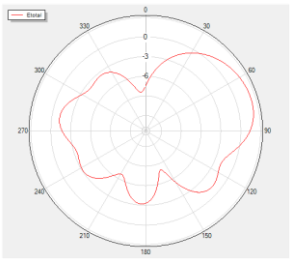


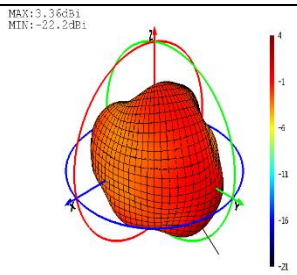


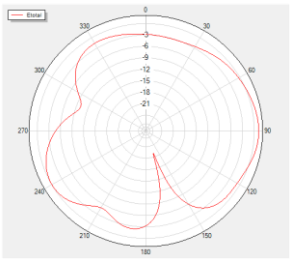


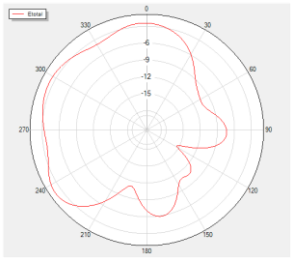
Phi=0 Freq=1440MHz 	Phi=90 Freq=1440MHz 	Phi=0 Freq=1740MHz 	Phi=90 Freq=1740MHz 
1880 MHz		1950 MHz	
MAX:3.31dBi MIN:-9.7dBi 	Theta=90 Freq=1880MHz 	MAX:1.95dBi MIN:-10.4dBi 	Theta=90 Freq=1950MHz 
Phi=0 Freq=1880MHz 	Phi=90 Freq=1880MHz 	Phi=0 Freq=1950MHz 	Phi=90 Freq=1950MHz 
2140 MHz		2350 MHz	
MAX:1.72dBi MIN:-14.44dBi 	Theta=90 Freq=2140MHz 	MAX:2.51dBi MIN:-16.27dBi 	Theta=90 Freq=2350MHz 
Phi=0 Freq=2140MHz 	Phi=90 Freq=2140MHz 	Phi=0 Freq=2350MHz 	Phi=90 Freq=2350MHz 
2450 MHz		2600 MHz	

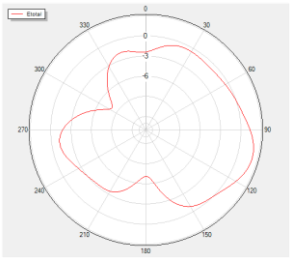


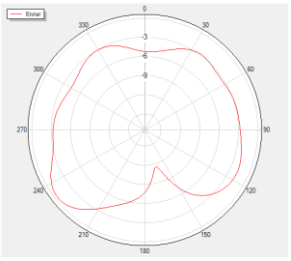


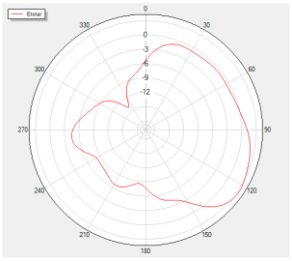






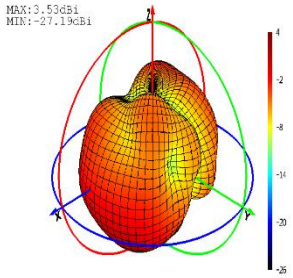


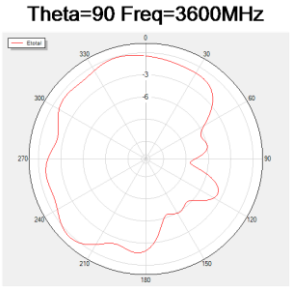


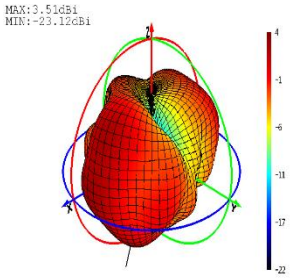


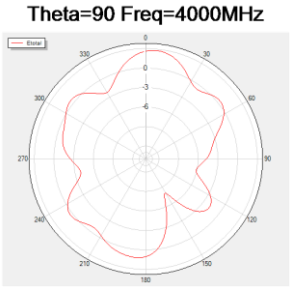
3600 MHz

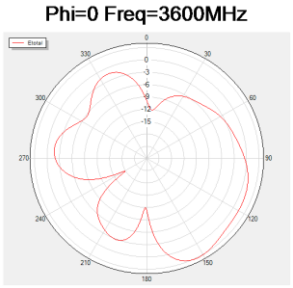
4000 MHz

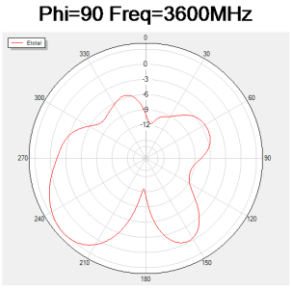


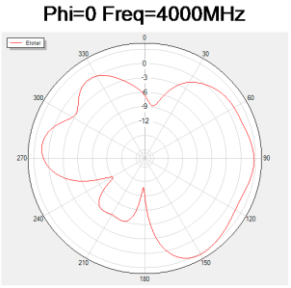


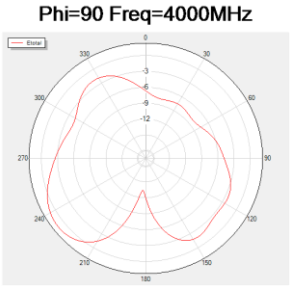






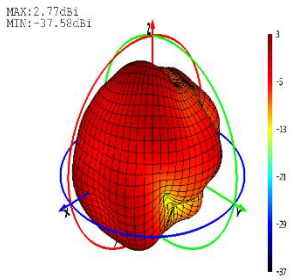


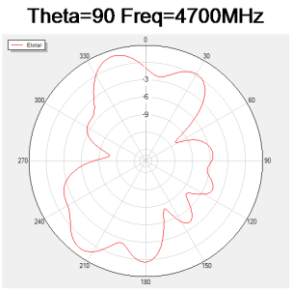


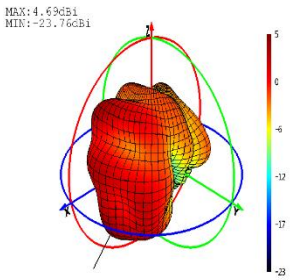


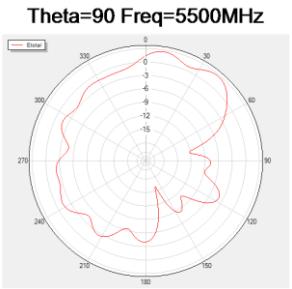
4700 MHz

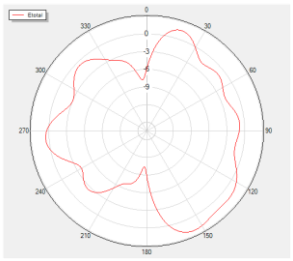
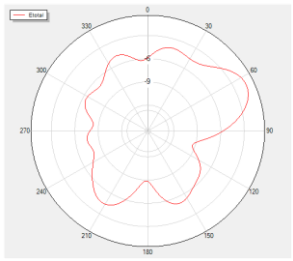
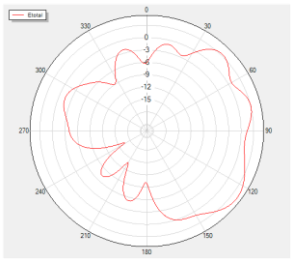
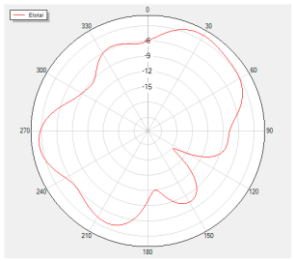
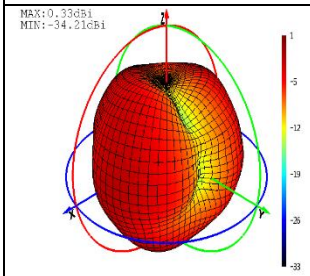
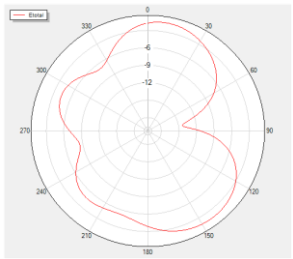
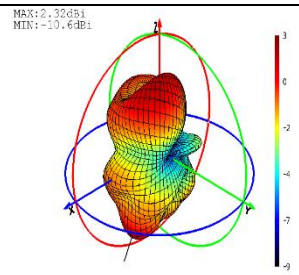
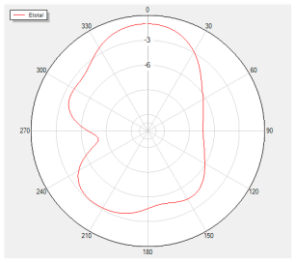
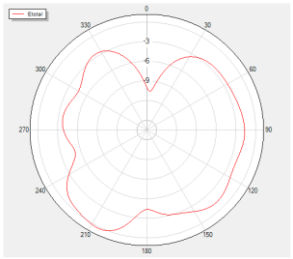
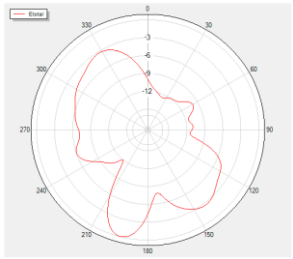
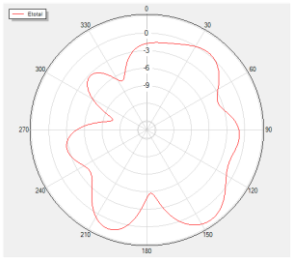
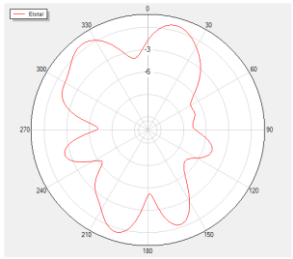
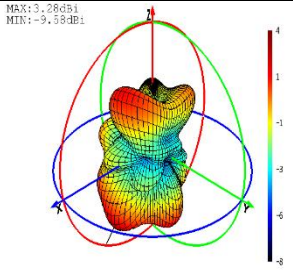
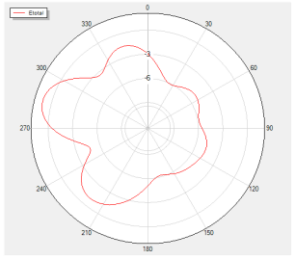
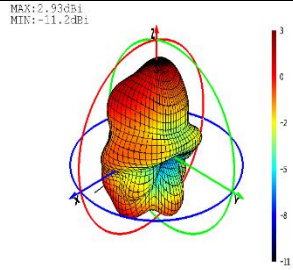
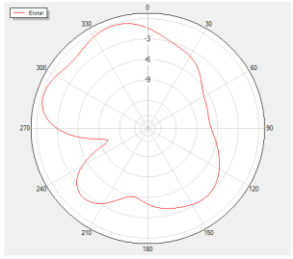
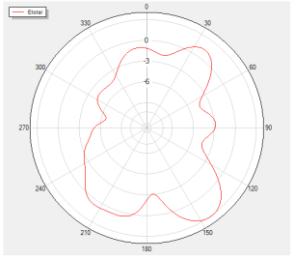
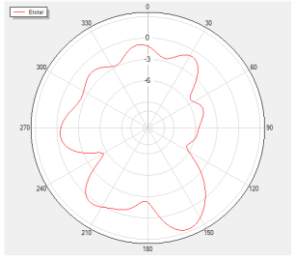
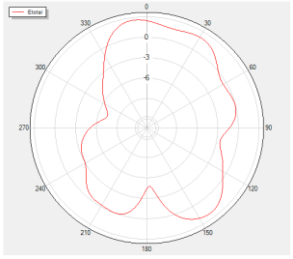
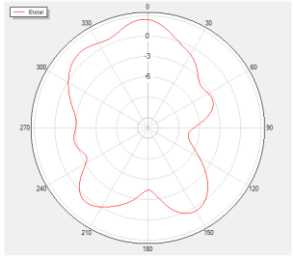
5500 MHz

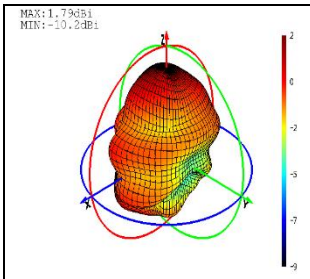
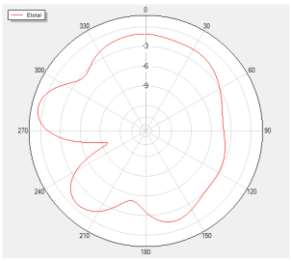
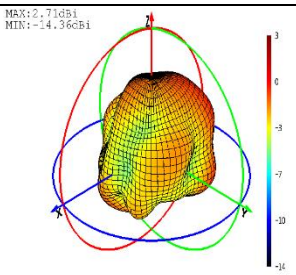
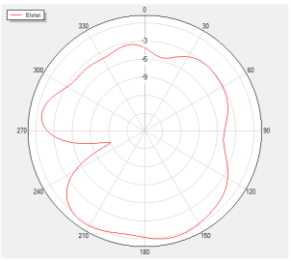
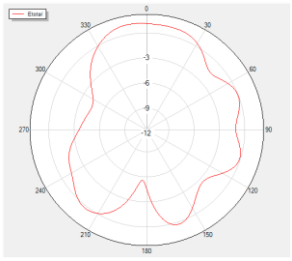
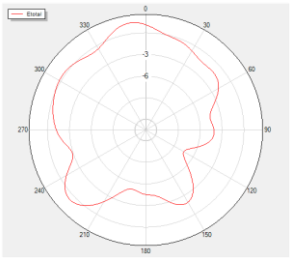
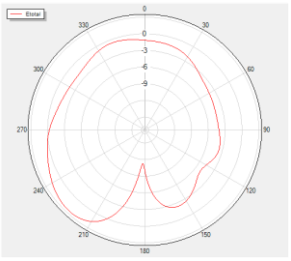
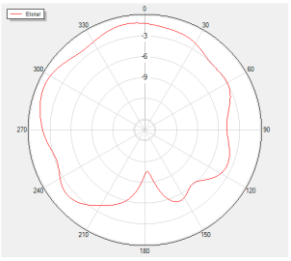
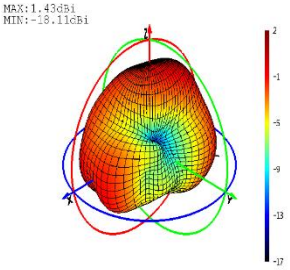
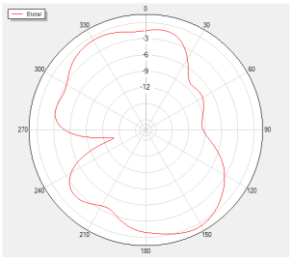
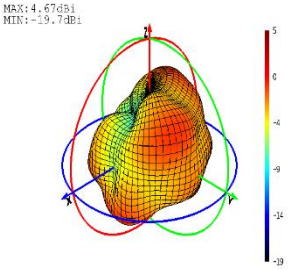
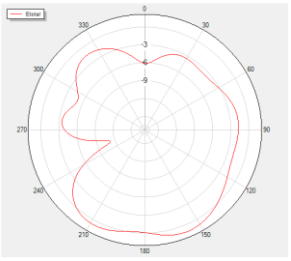
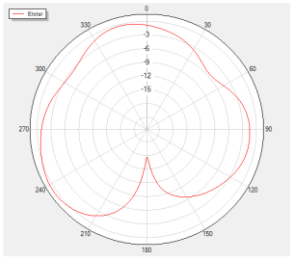
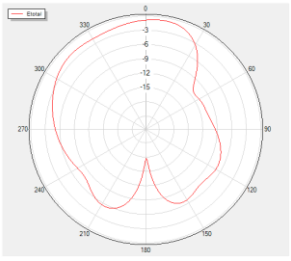
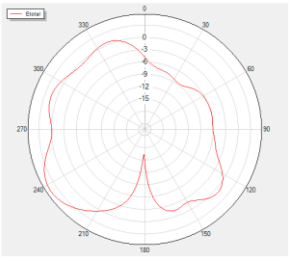
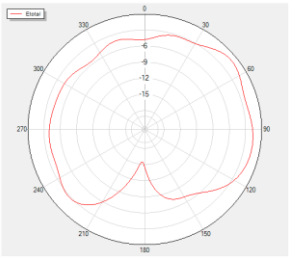








Phi=0 Freq=4700MHz 	Phi=90 Freq=4700MHz 	Phi=0 Freq=5500MHz 	Phi=90 Freq=5500MHz 
MH2			
1440 MHz		1740 MHz	
	Theta=90 Freq=1440MHz 		Theta=90 Freq=1740MHz 
Phi=0 Freq=1440MHz 	Phi=90 Freq=1440MHz 	Phi=0 Freq=1740MHz 	Phi=90 Freq=1740MHz 
1880 MHz		1950 MHz	
	Theta=90 Freq=1880MHz 		Theta=90 Freq=1950MHz 
Phi=0 Freq=1880MHz 	Phi=90 Freq=1880MHz 	Phi=0 Freq=1950MHz 	Phi=90 Freq=1950MHz 
2140 MHz		2350 MHz	

			
			
2450 MHz		2600 MHz	
			
			
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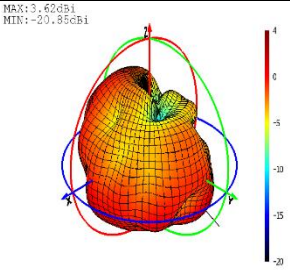
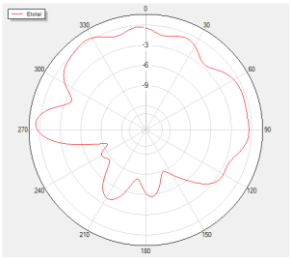
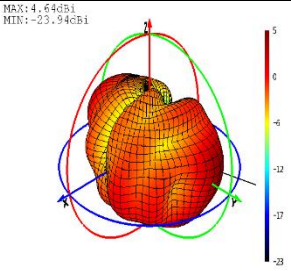
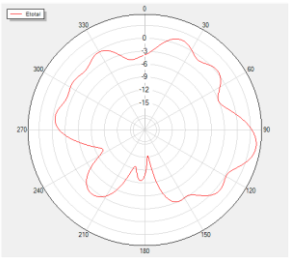
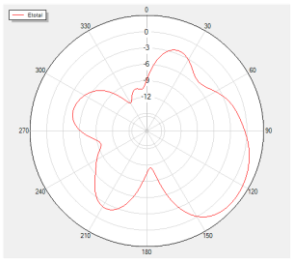
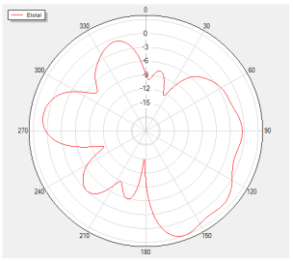
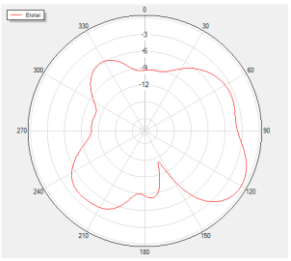
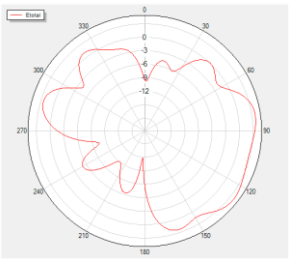
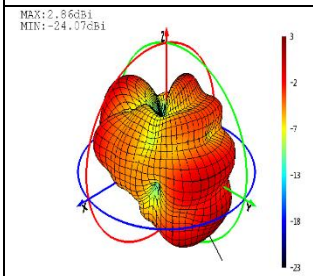
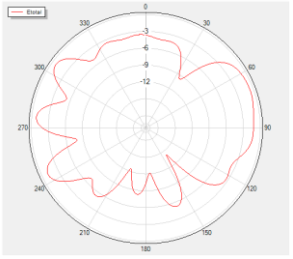
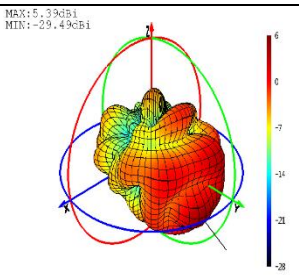
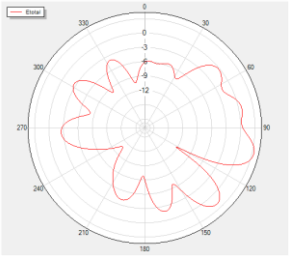
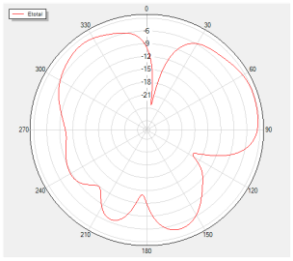
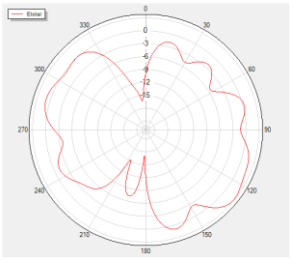
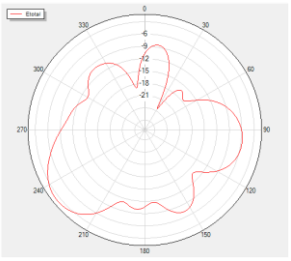
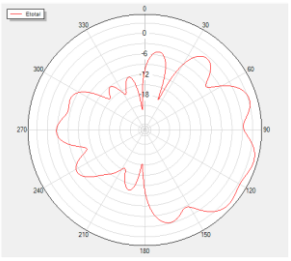
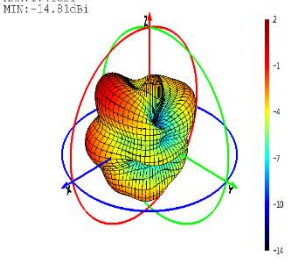
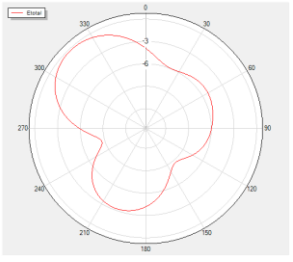
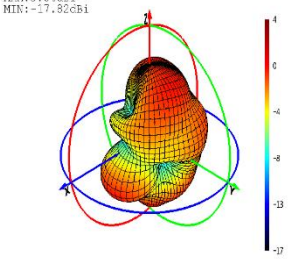
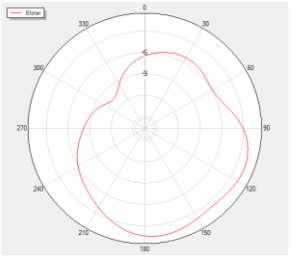
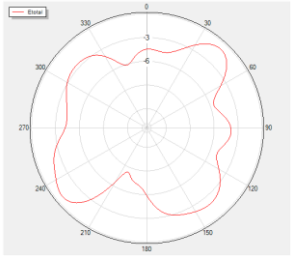
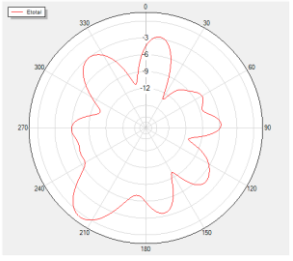
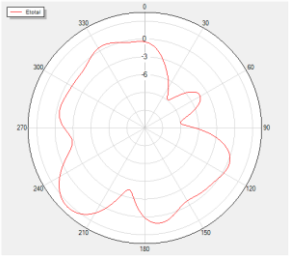
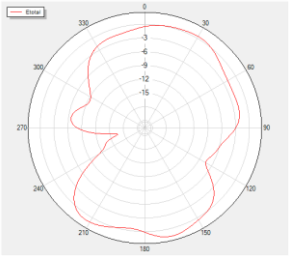
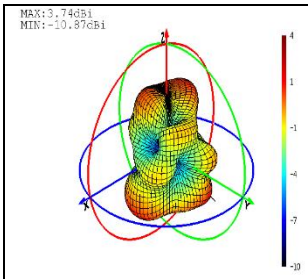
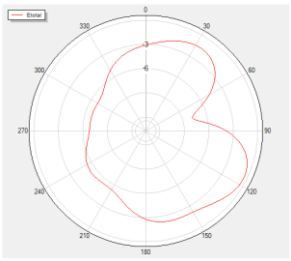
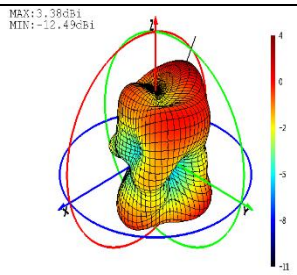
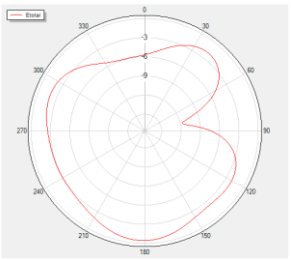
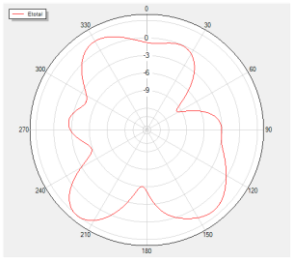
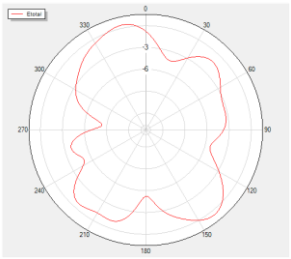
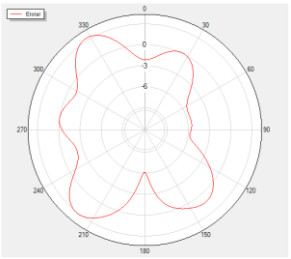
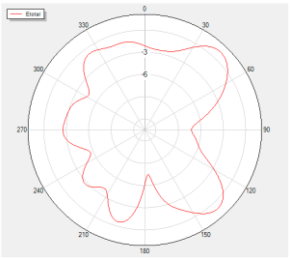
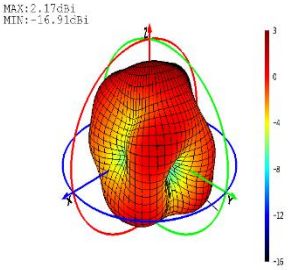
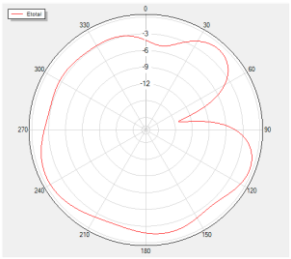
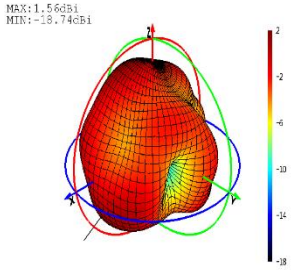
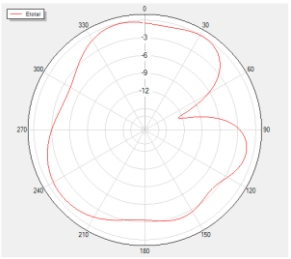
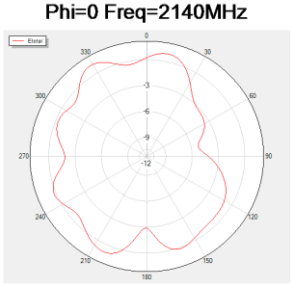
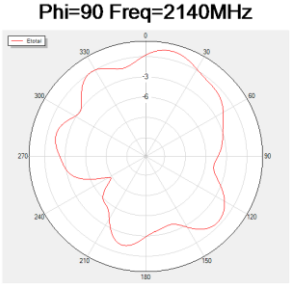
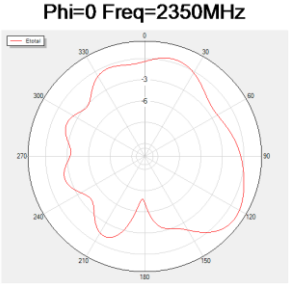
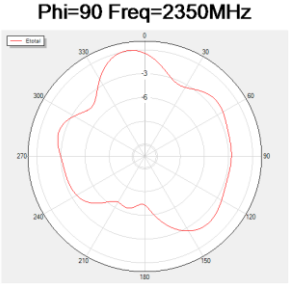
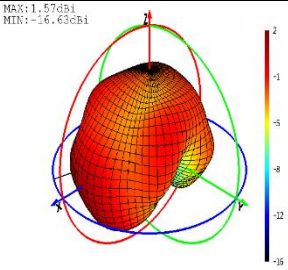
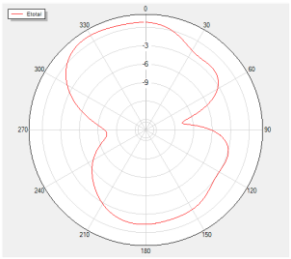
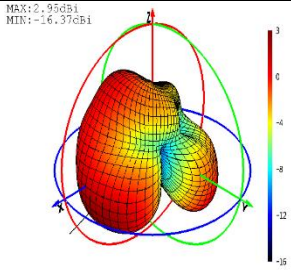
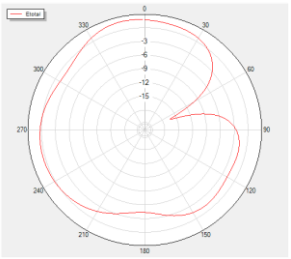
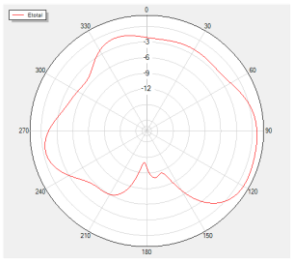
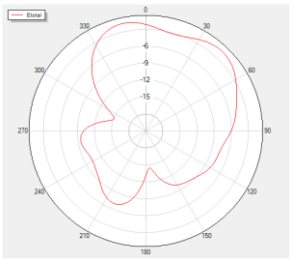
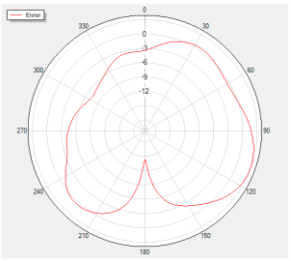
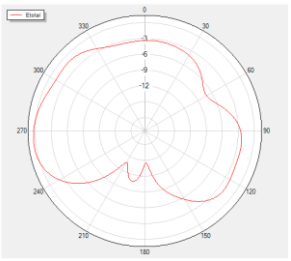
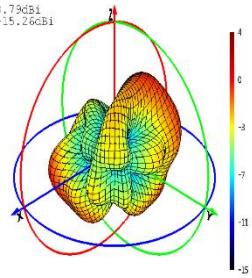
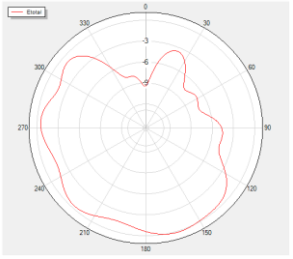
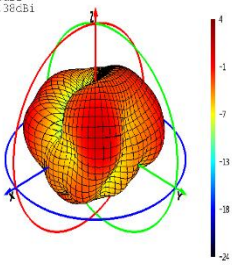
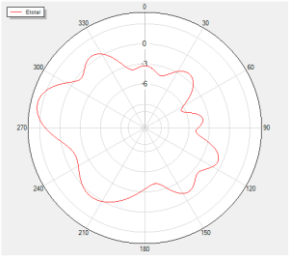
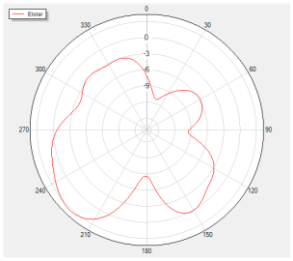
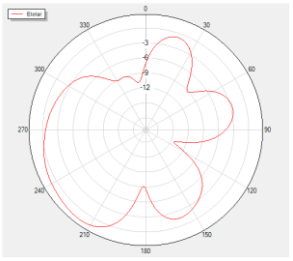
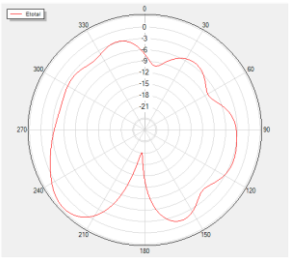
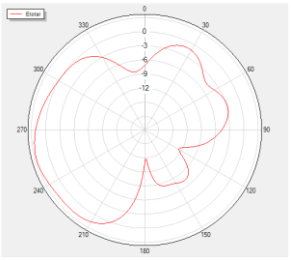
			

Phi=0 Freq=3600MHz 	Phi=90 Freq=3600MHz 	Phi=0 Freq=4000MHz 	Phi=90 Freq=4000MHz 
4700 MHz		5500 MHz	
MAX:2.86dBi MIN:-24.07dBi 	Theta=90 Freq=4700MHz 	MAX:5.39dBi MIN:-29.49dBi 	Theta=90 Freq=5500MHz 
Phi=0 Freq=4700MHz 	Phi=90 Freq=4700MHz 	Phi=0 Freq=5500MHz 	Phi=90 Freq=5500MHz 
MH3			
1440 MHz		1740 MHz	
MAX:1.41dBi MIN:-14.81dBi 	Theta=90 Freq=1440MHz 	MAX:3.56dBi MIN:-17.82dBi 	Theta=90 Freq=1740MHz 
Phi=0 Freq=1440MHz 	Phi=90 Freq=1440MHz 	Phi=0 Freq=1740MHz 	Phi=90 Freq=1740MHz 
1880 MHz		1950 MHz	

			
			
2140 MHz		2350 MHz	
			
			
2450 MHz		2600 MHz	
			

Phi=0 Freq=2450MHz 	Phi=90 Freq=2450MHz 	Phi=0 Freq=2600MHz 	Phi=90 Freq=2600MHz 
3600 MHz		4000 MHz	
MAX:3.79dBi MIN:-15.26dBi 	Theta=90 Freq=3600MHz 	MAX:3.96dBi MIN:-24.38dBi 	Theta=90 Freq=4000MHz 
Phi=0 Freq=3600MHz 	Phi=90 Freq=3600MHz 	Phi=0 Freq=4000MHz 	Phi=90 Freq=4000MHz 
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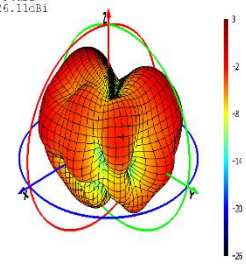
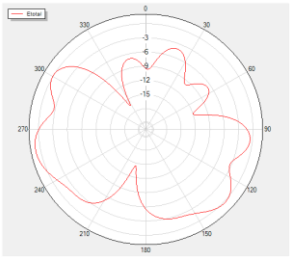
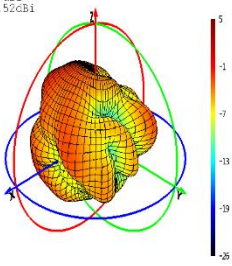
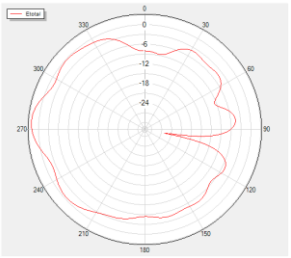
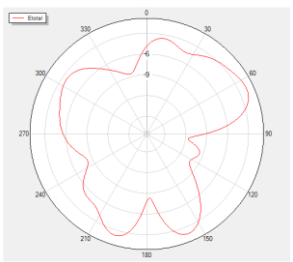
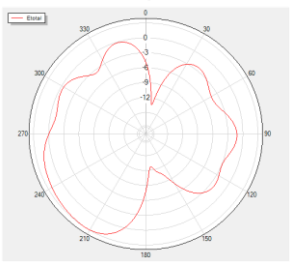
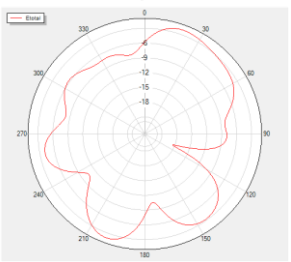
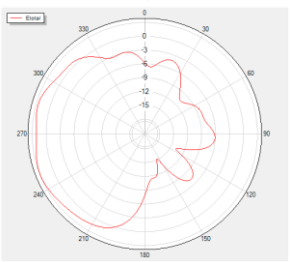
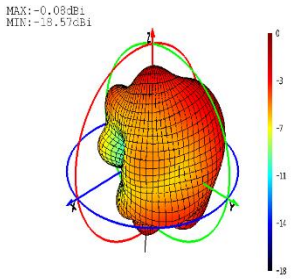
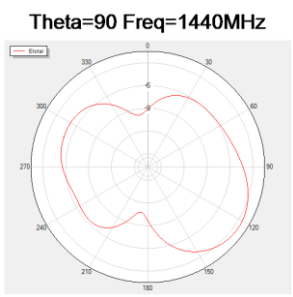
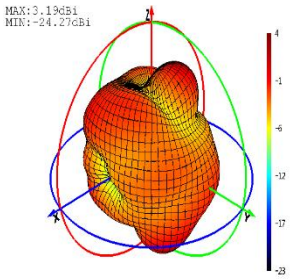
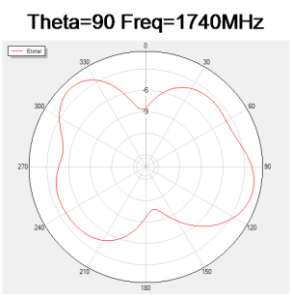
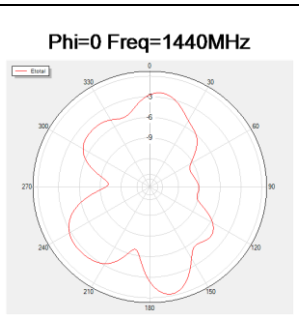
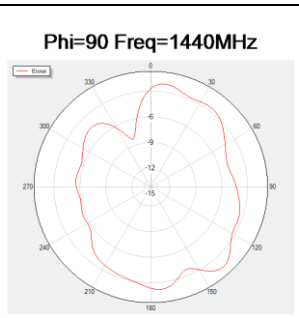
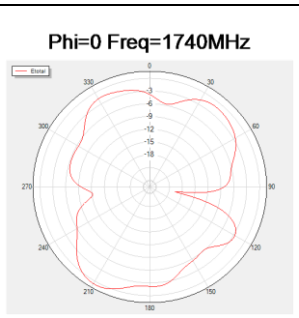
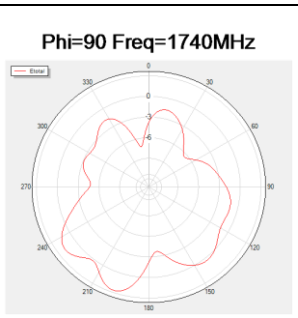
MAX:2.94dBi MIN:-26.11dBi 	Theta=90 Freq=4700MHz 	MAX:4.57dBi MIN:-26.52dBi 	Theta=90 Freq=5500MHz 
Phi=0 Freq=4700MHz 	Phi=90 Freq=4700MHz 	Phi=0 Freq=5500MHz 	Phi=90 Freq=5500MHz 
MH4			
1440 MHz		1740 MHz	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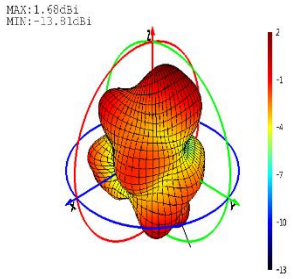	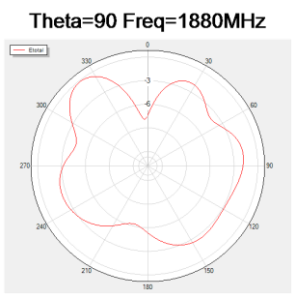	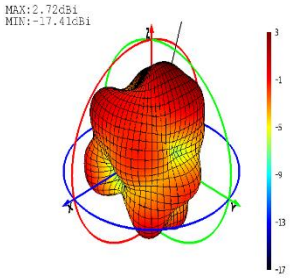	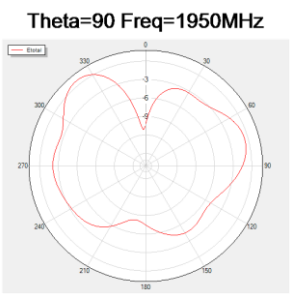
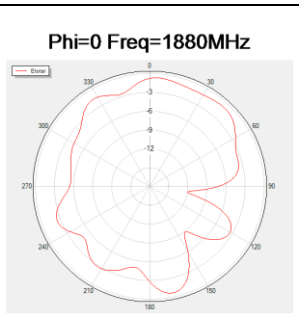	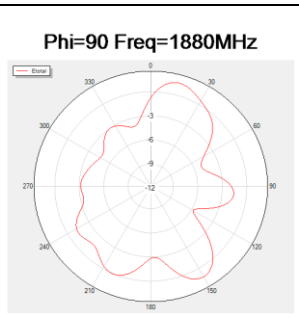	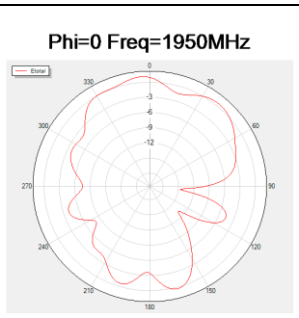	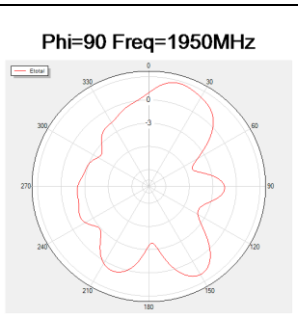
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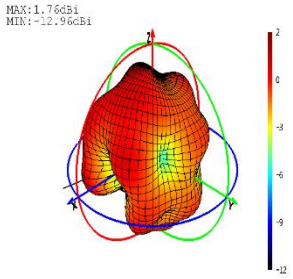
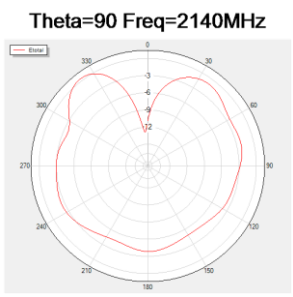
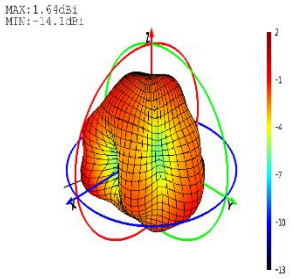
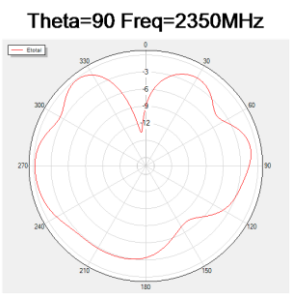
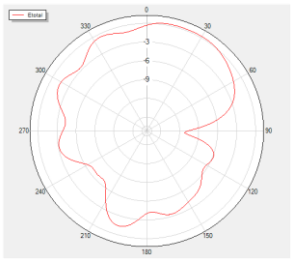
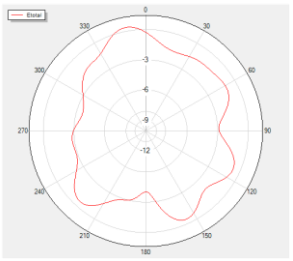
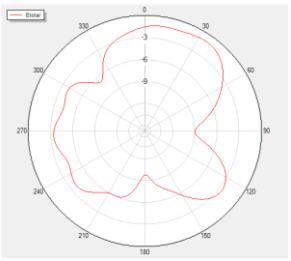
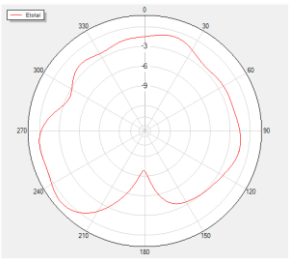
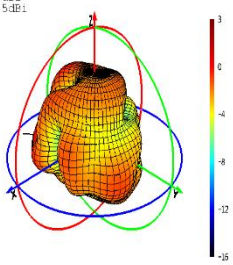
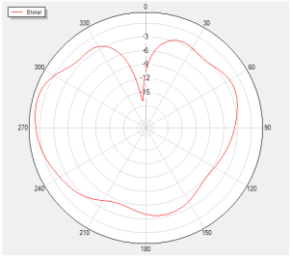
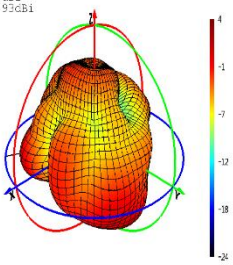
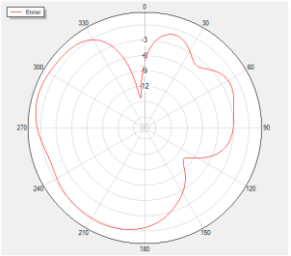
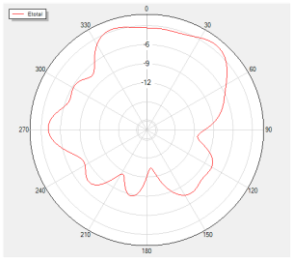
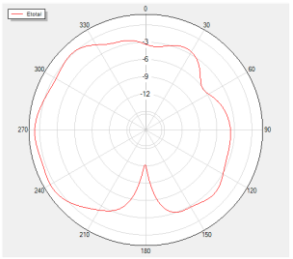
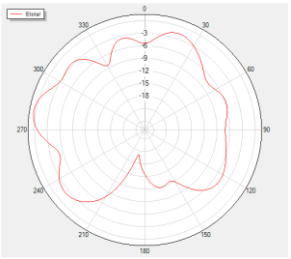
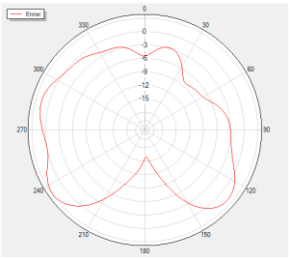
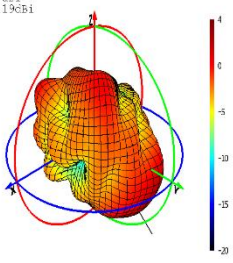
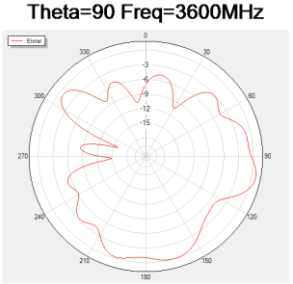
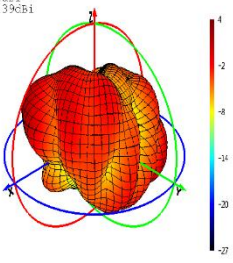
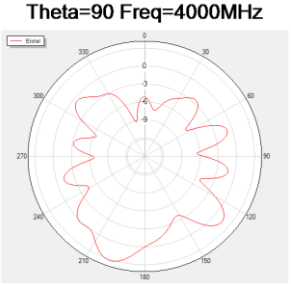
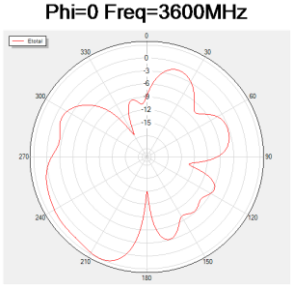
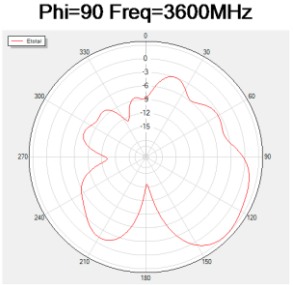
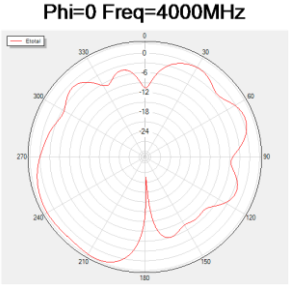
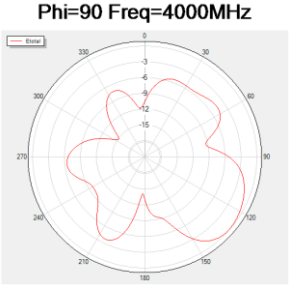
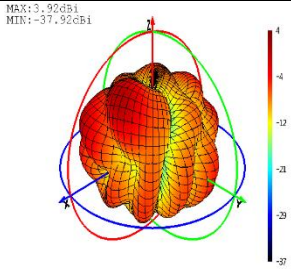
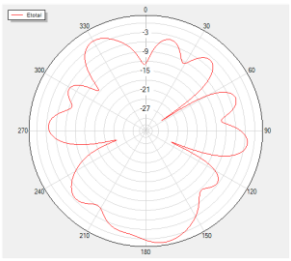
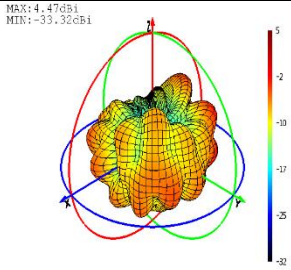
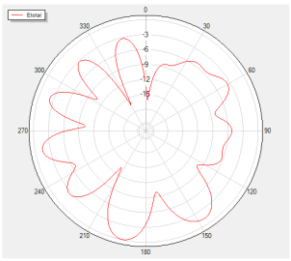
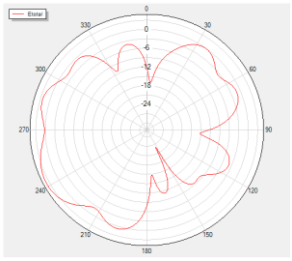
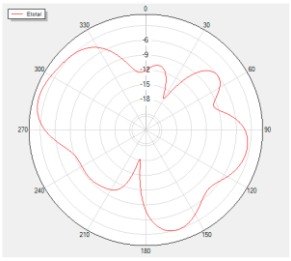
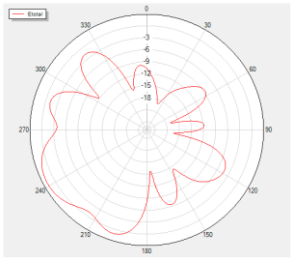
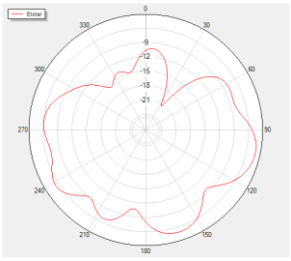
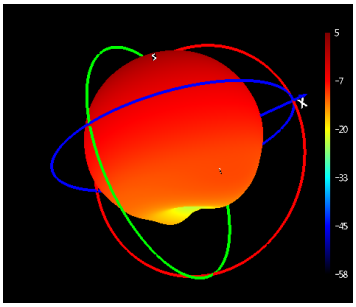
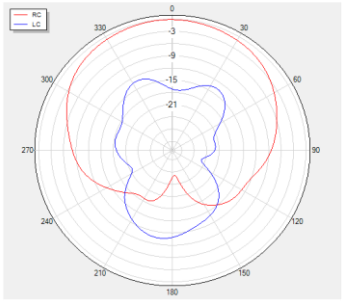
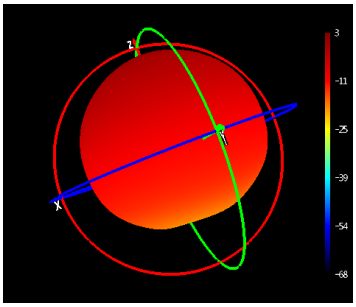
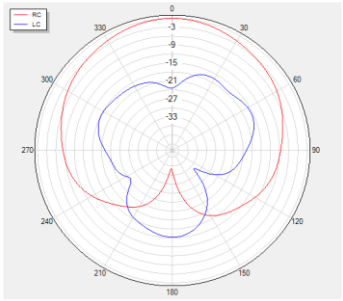
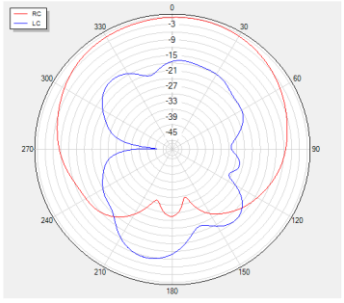
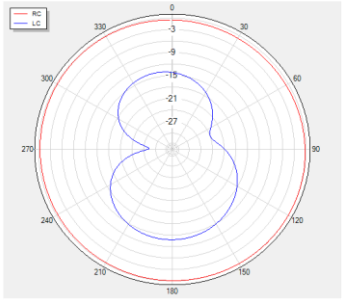
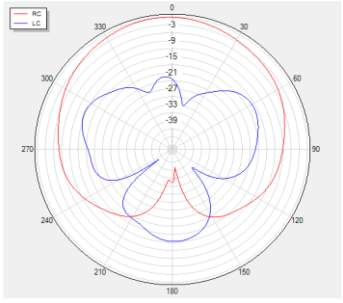
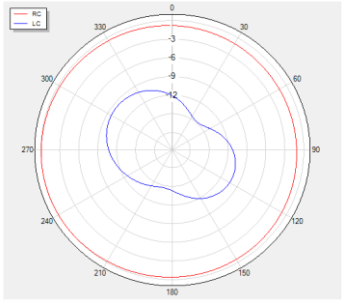
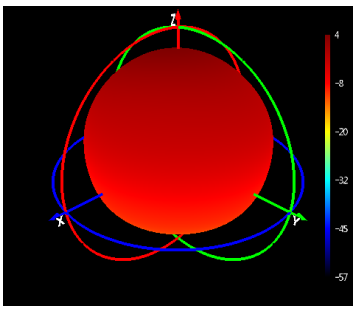
			

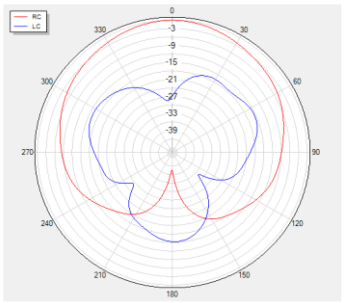
Phi=0 Freq=2140MHz 	Phi=90 Freq=2140MHz 	Phi=0 Freq=2350MHz 	Phi=90 Freq=2350MHz 
2450 MHz		2600 MHz	
MAX:2.13dBi MIN:-17.5dBi 	Theta=90 Freq=2450MHz 	MAX:3.08dBi MIN:-24.93dBi 	Theta=90 Freq=2600MHz 
Phi=0 Freq=2450MHz 	Phi=90 Freq=2450MHz 	Phi=0 Freq=2600MHz 	Phi=90 Freq=2600MHz 
3600 MHz		4000 MHz	
MAX:3.17dBi MIN:-21.19dBi 	Theta=90 Freq=3600MHz 	MAX:3.74dBi MIN:-27.39dBi 	Theta=90 Freq=4000MHz 
Phi=0 Freq=3600MHz 	Phi=90 Freq=3600MHz 	Phi=0 Freq=4000MHz 	Phi=90 Freq=4000MHz 
4700 MHz		5500 MHz	

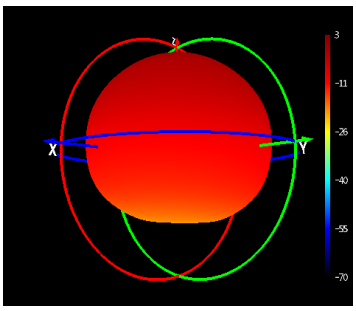
	Theta=90 Freq=4700MHz 		Theta=90 Freq=5500MHz 
Phi=0 Freq=4700MHz 	Phi=90 Freq=4700MHz 	Phi=0 Freq=5500MHz 	Phi=90 Freq=5500MHz 

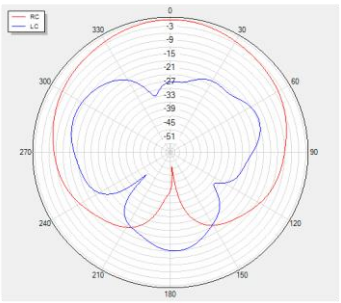
● GNSS

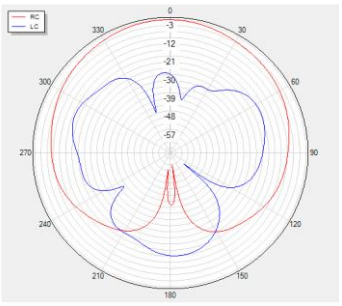
1176MHz		1561MHz	
	Phi=0 freq=1176MHz 		Phi=0 freq=1561MHz 
Phi=90 freq=1176MHz 	Theta=90 freq=1176MHz 	Phi=90 freq=1561MHz 	Theta=90 freq=1561MHz 
1575MHz		1602MHz	

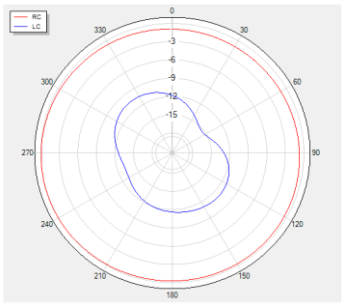


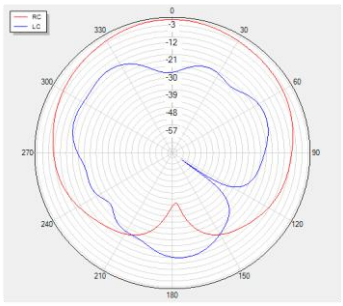


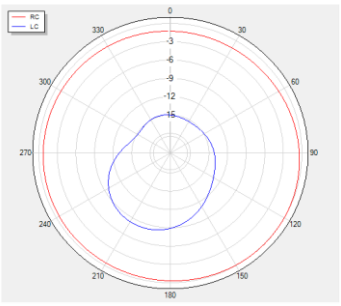




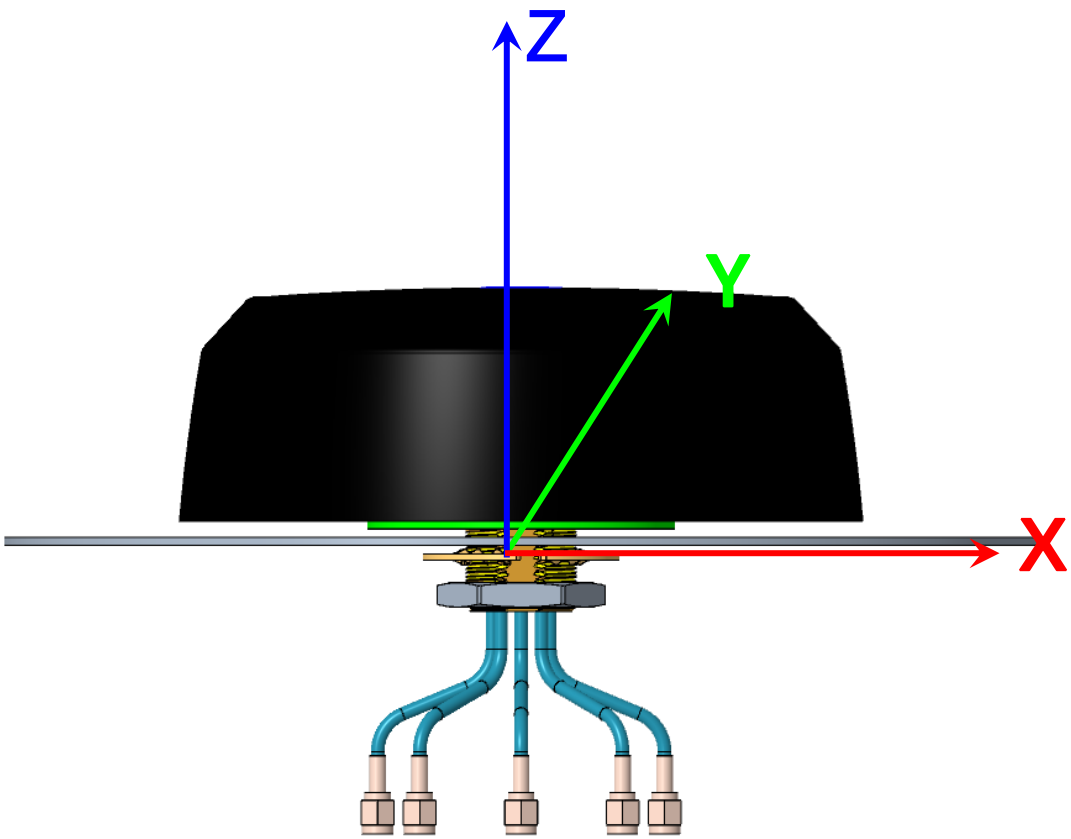


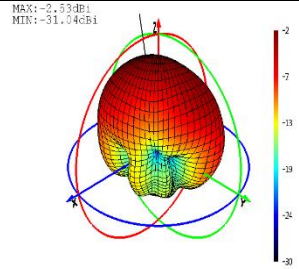
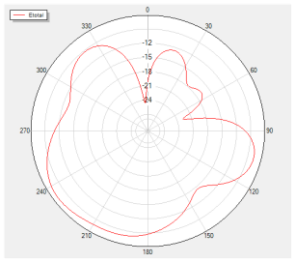
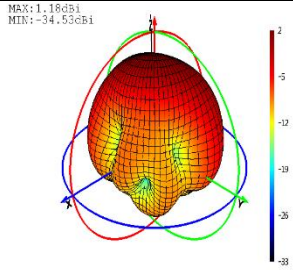
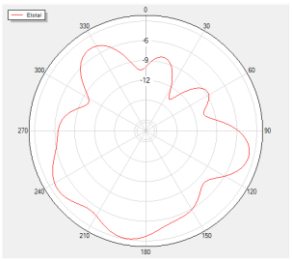
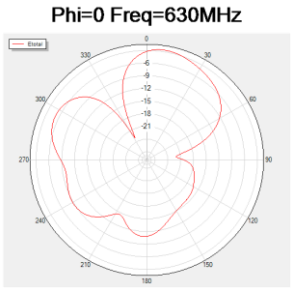
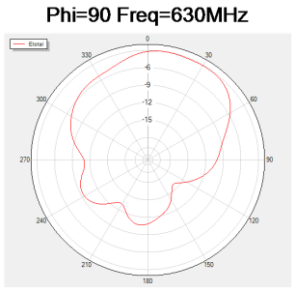
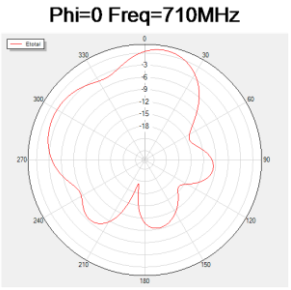
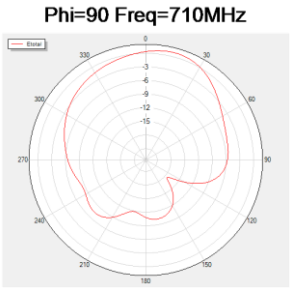
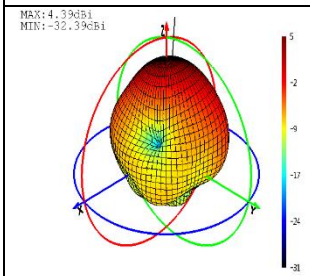
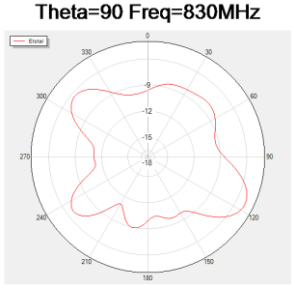
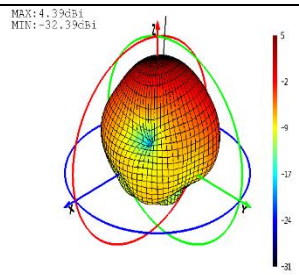
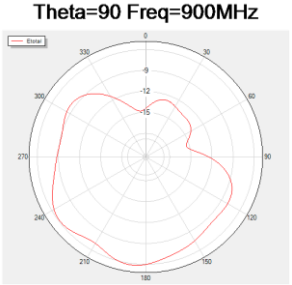
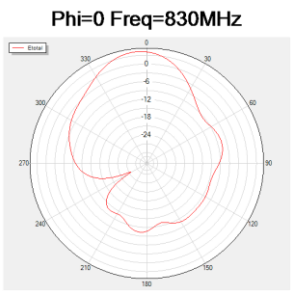
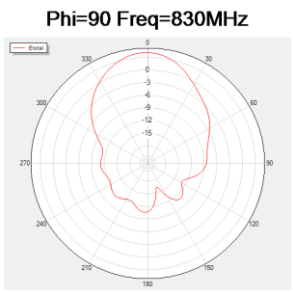
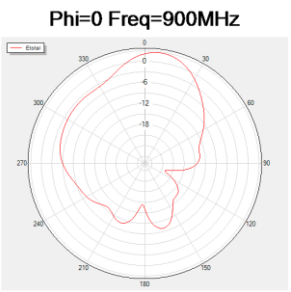
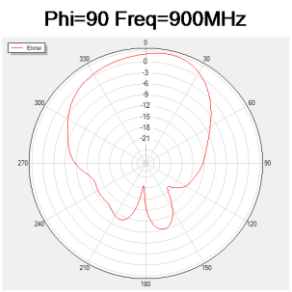
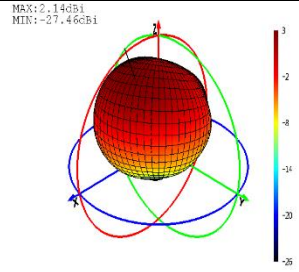
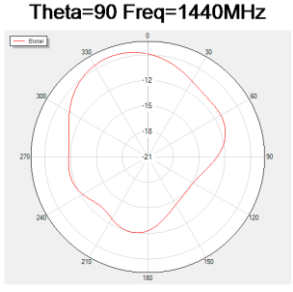
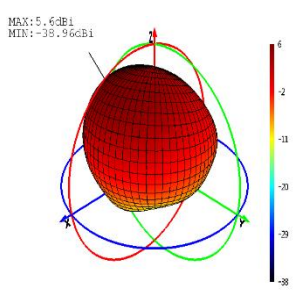
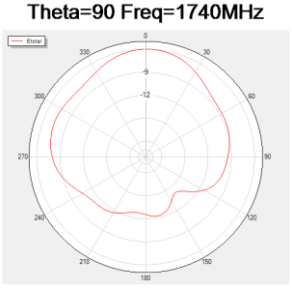


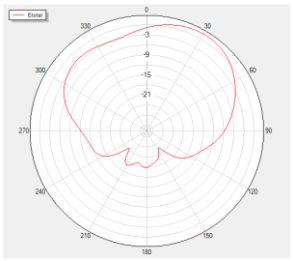
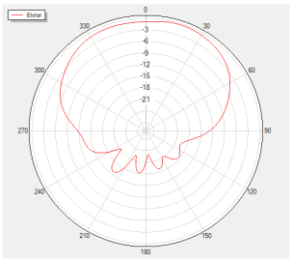
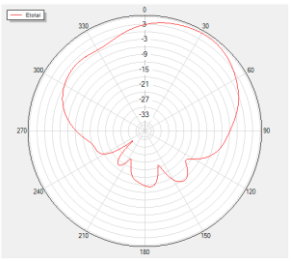
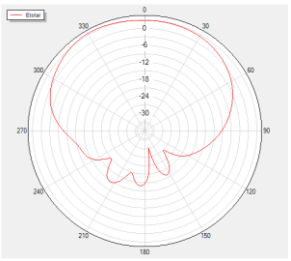
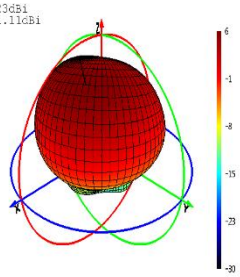
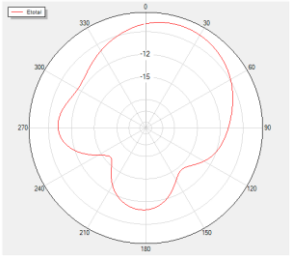
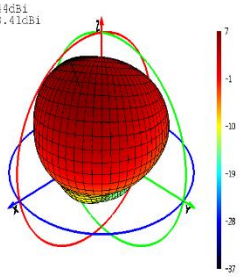
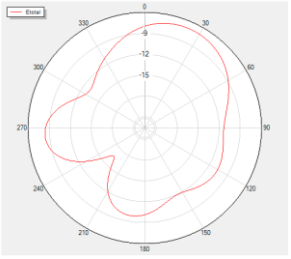
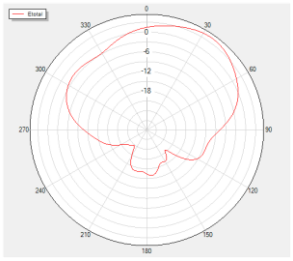
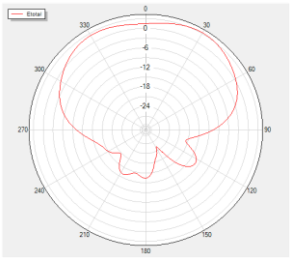
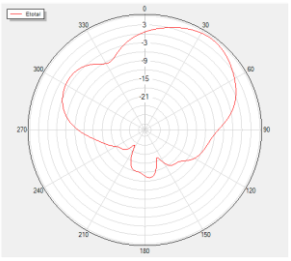
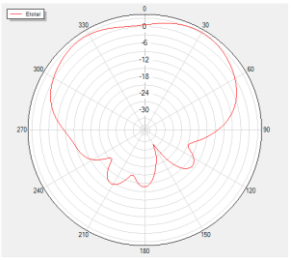
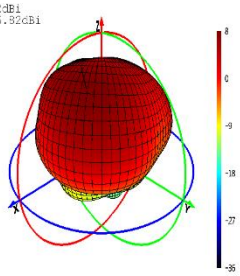
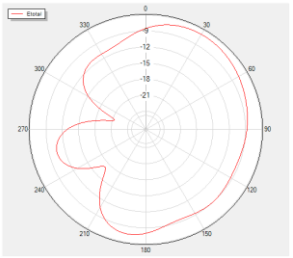
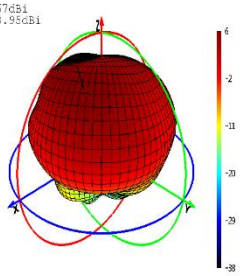
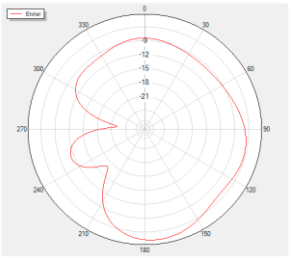
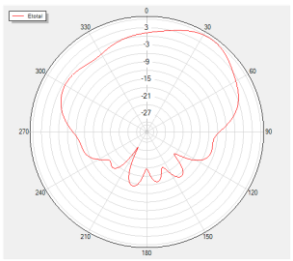
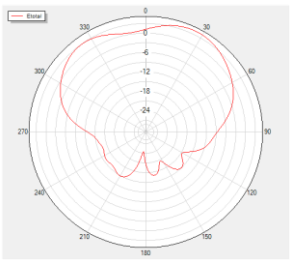
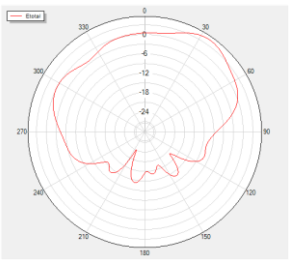
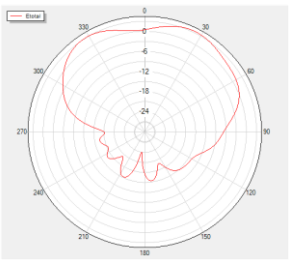


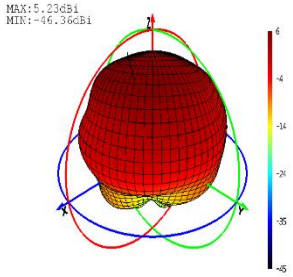
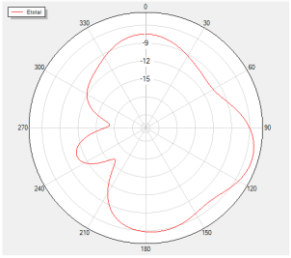
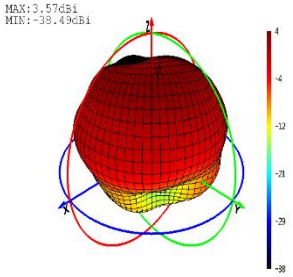
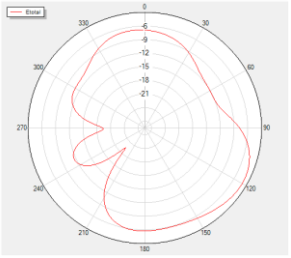
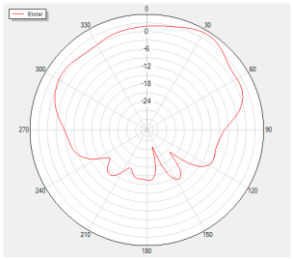
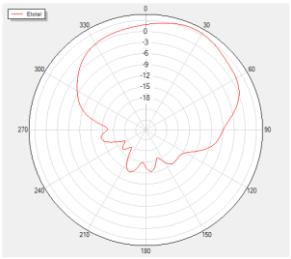
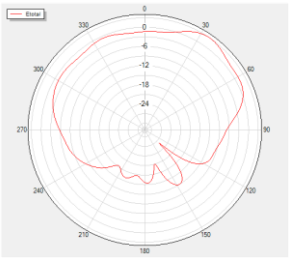
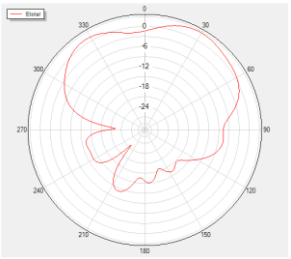
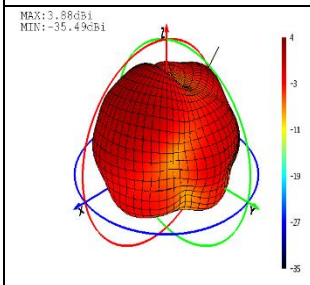
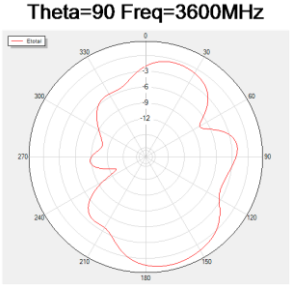
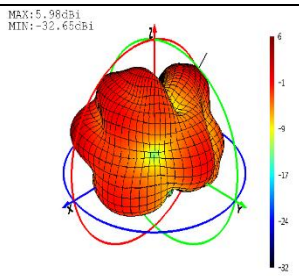
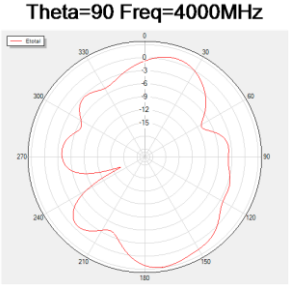
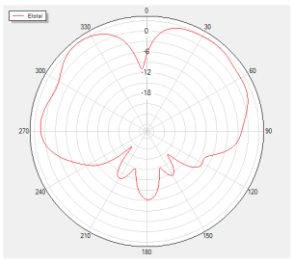
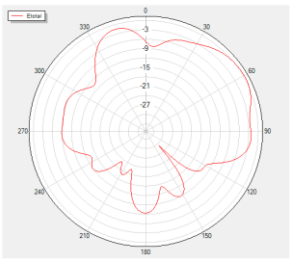
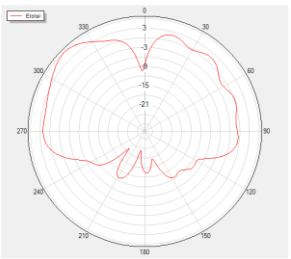
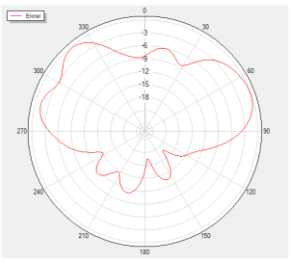
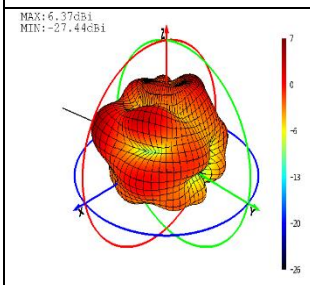
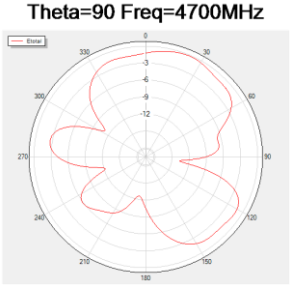
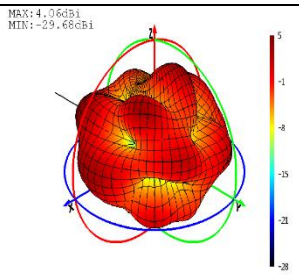
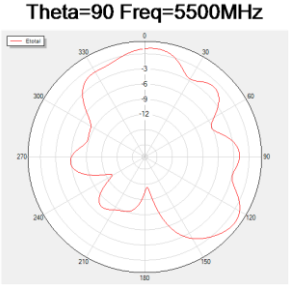


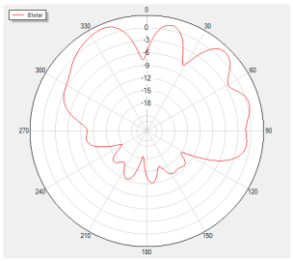
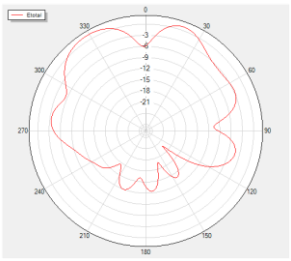
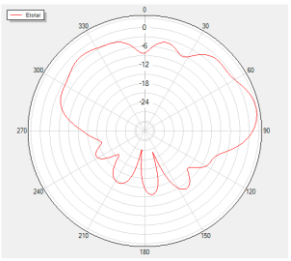
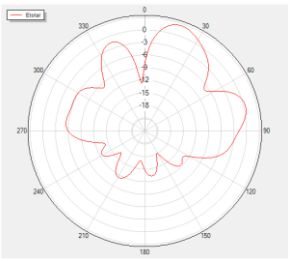
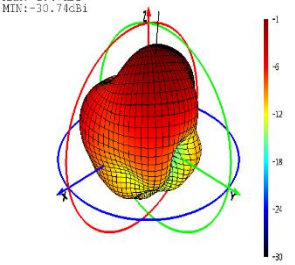
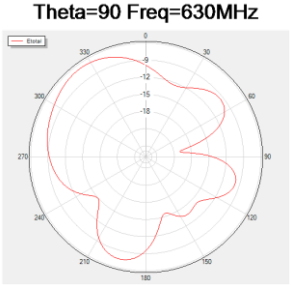
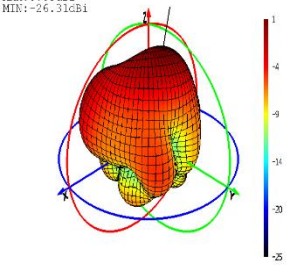
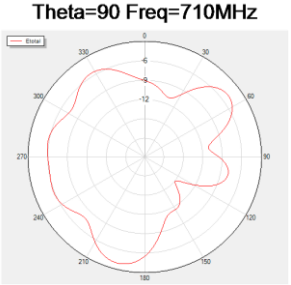
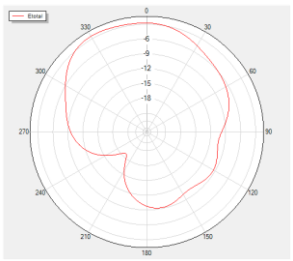
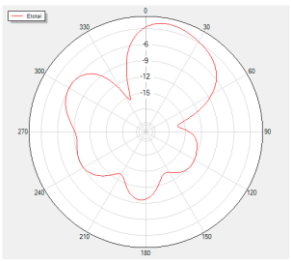
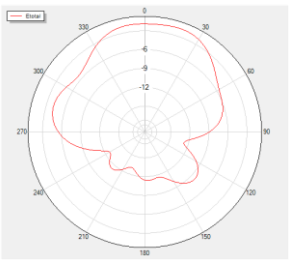
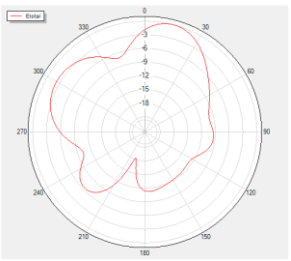
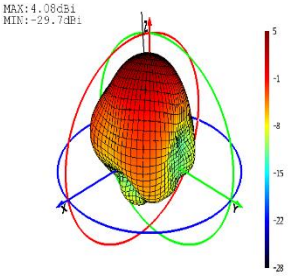
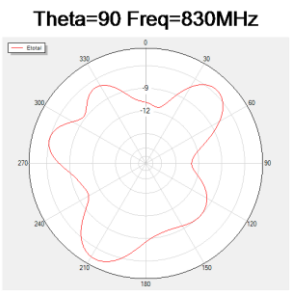
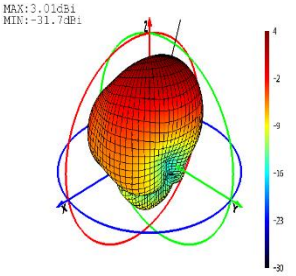
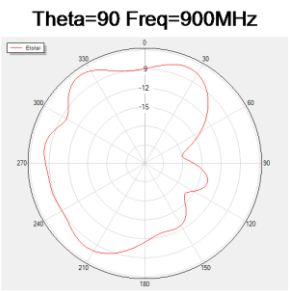
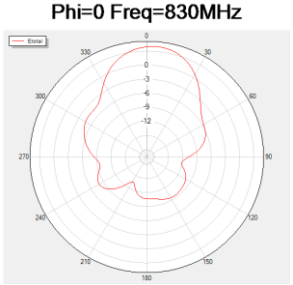
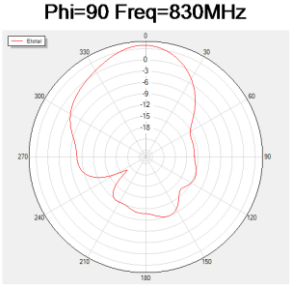
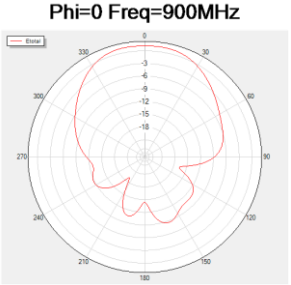
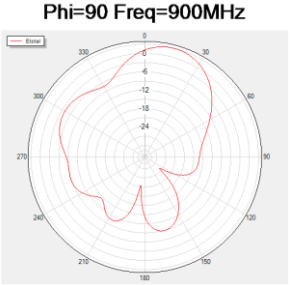
3.2.4.2 Test Status: On 300 × 400 mm Metal Plane

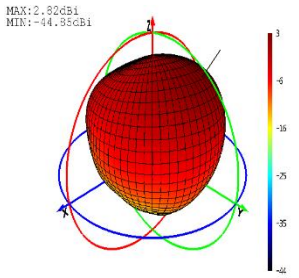
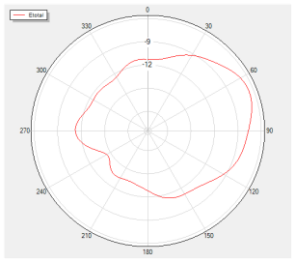
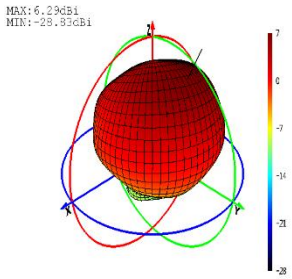
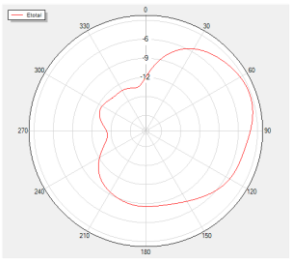
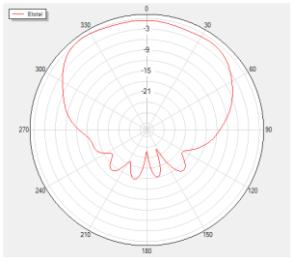
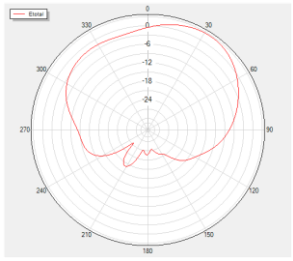
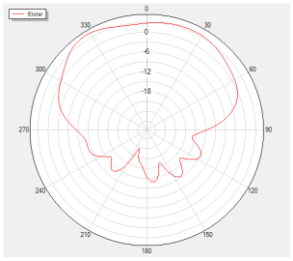
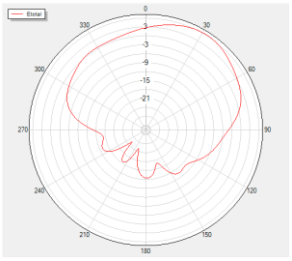
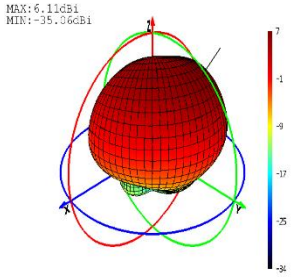
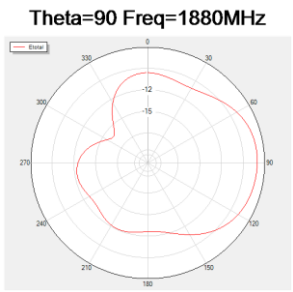
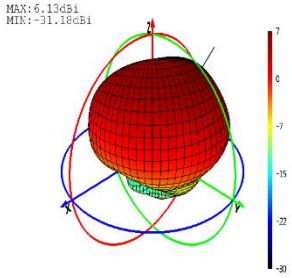
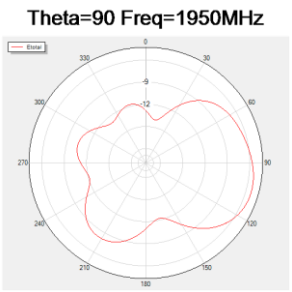
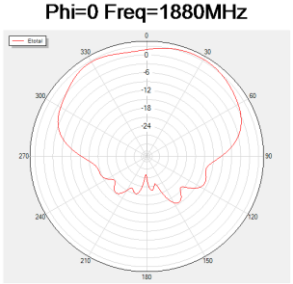
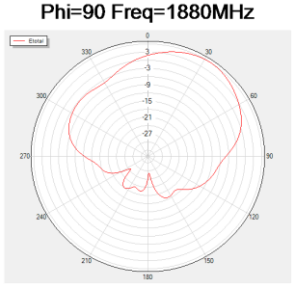
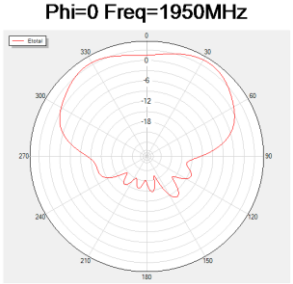
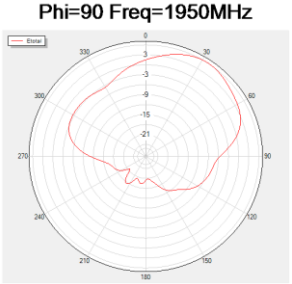
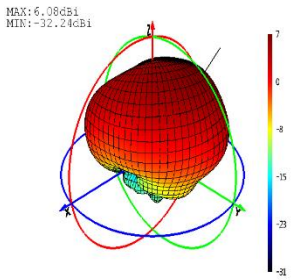
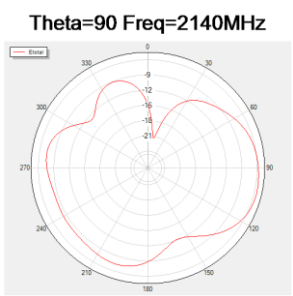
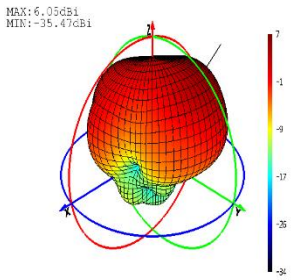
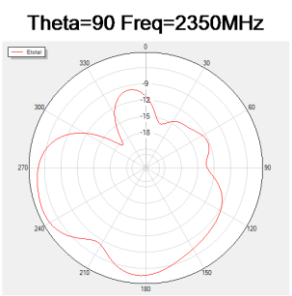


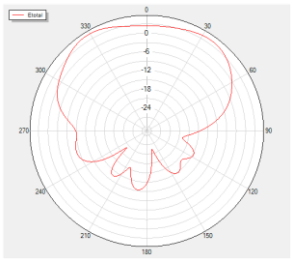
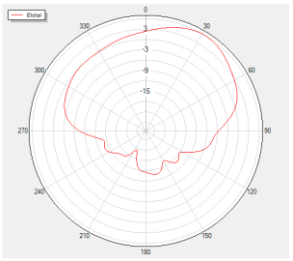
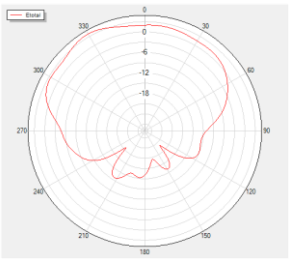
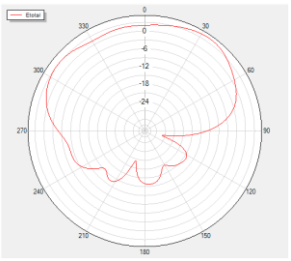
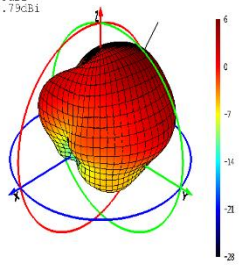
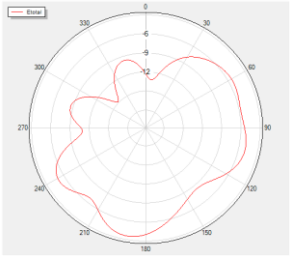
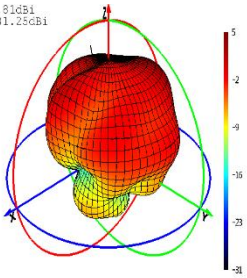
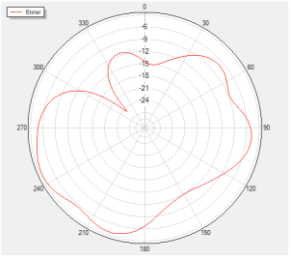
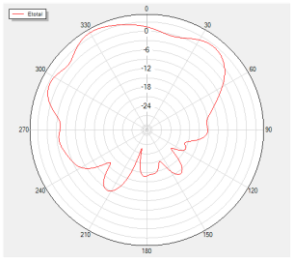
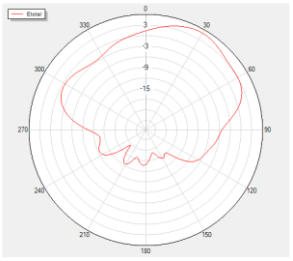
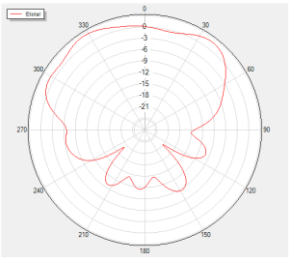
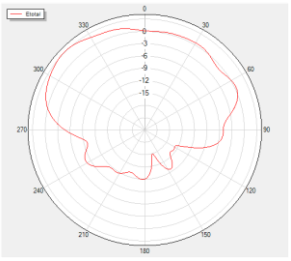
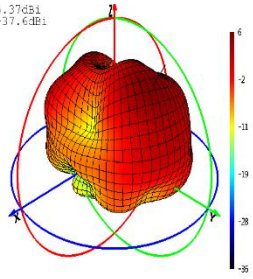
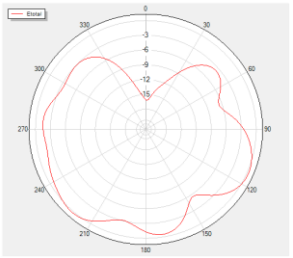
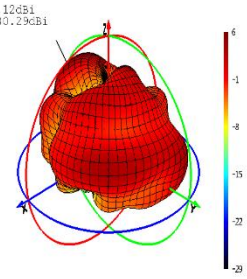
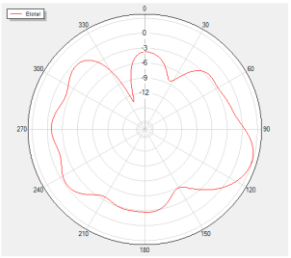
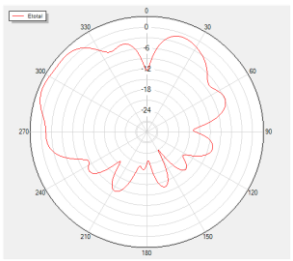
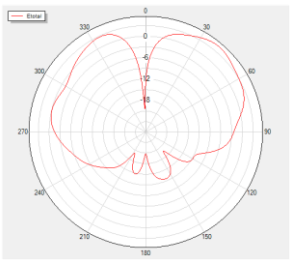
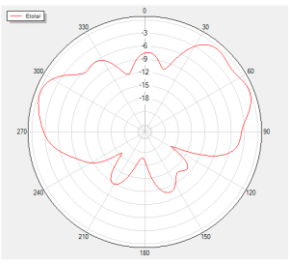
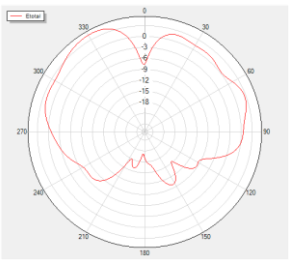
LMH1			
630 MHz		710 MHz	
			
			
830 MHz		900 MHz	
			
			
1440 MHz		1740 MHz	
			

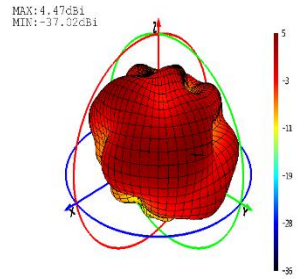
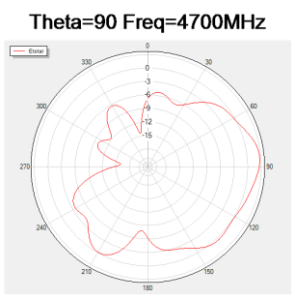
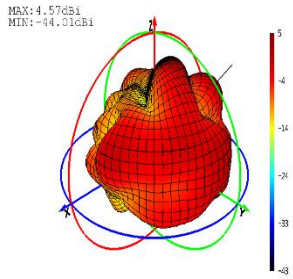
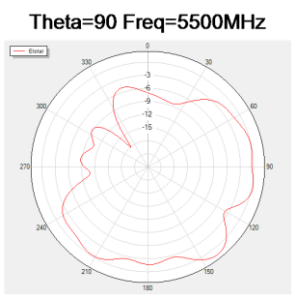
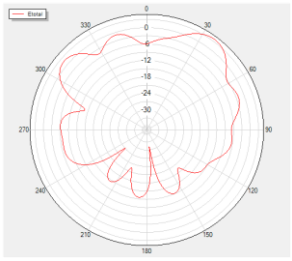
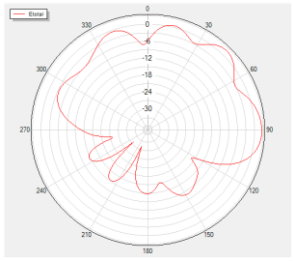
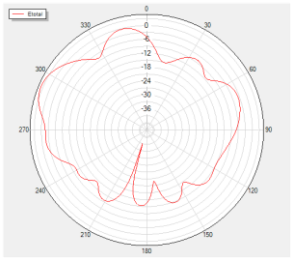
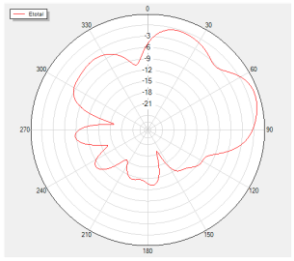
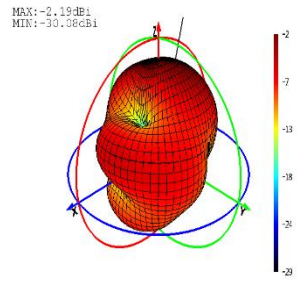
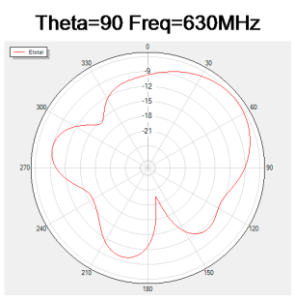
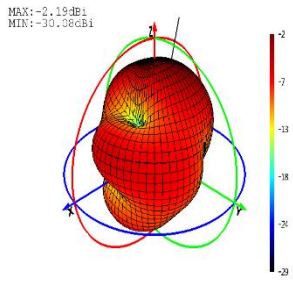
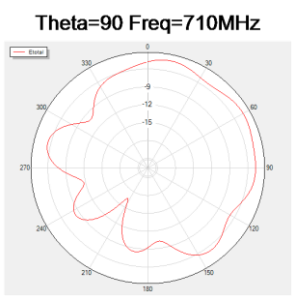
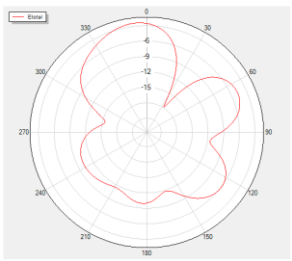
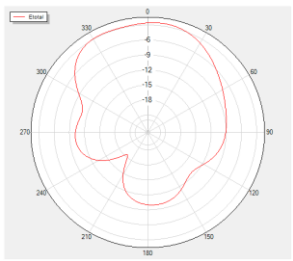
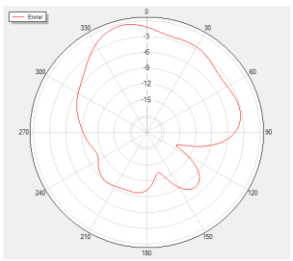
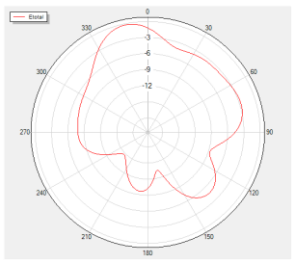
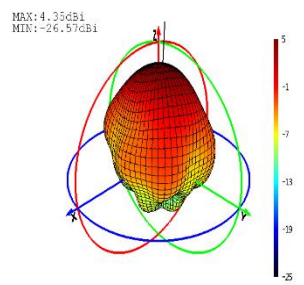
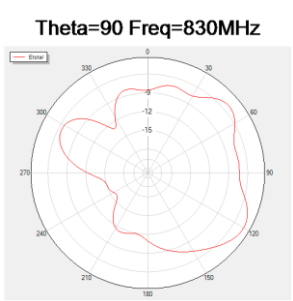
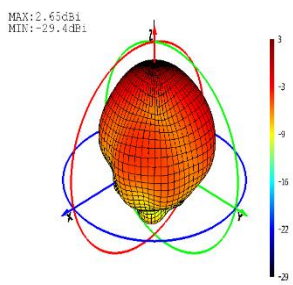
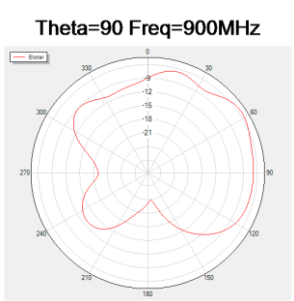
Phi=0 Freq=1440MHz 	Phi=90 Freq=1440MHz 	Phi=0 Freq=1740MHz 	Phi=90 Freq=1740MHz 
1880 MHz		1950 MHz	
MAX:5.23dBi MIN:-31.11dBi 	Theta=90 Freq=1880MHz 	MAX:6.44dBi MIN:-38.41dBi 	Theta=90 Freq=1950MHz 
Phi=0 Freq=1880MHz 	Phi=90 Freq=1880MHz 	Phi=0 Freq=1950MHz 	Phi=90 Freq=1950MHz 
2140 MHz		2350 MHz	
MAX:7.2dBi MIN:-36.82dBi 	Theta=90 Freq=2140MHz 	MAX:5.67dBi MIN:-38.95dBi 	Theta=90 Freq=2350MHz 
Phi=0 Freq=2140MHz 	Phi=90 Freq=2140MHz 	Phi=0 Freq=2350MHz 	Phi=90 Freq=2350MHz 
2450 MHz		2600 MHz	

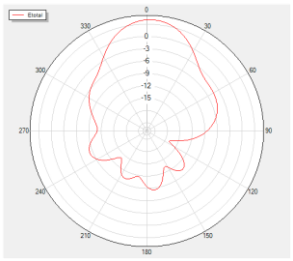
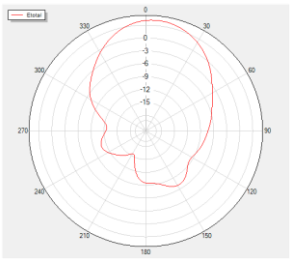
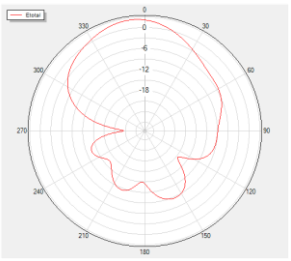
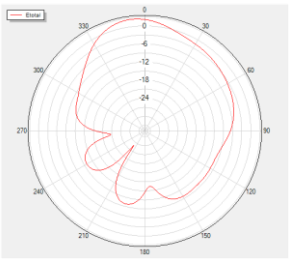
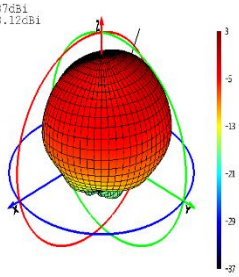
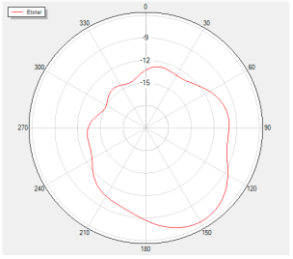
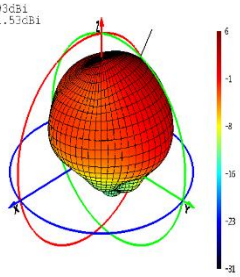
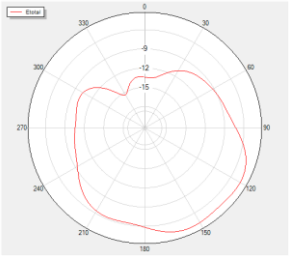
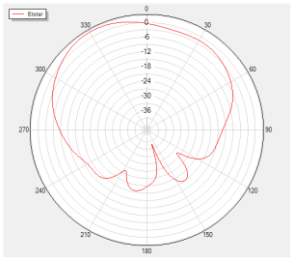
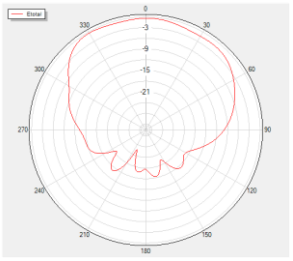
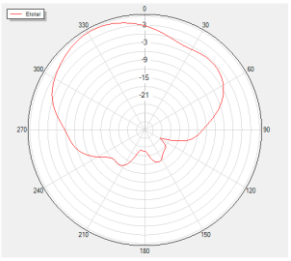
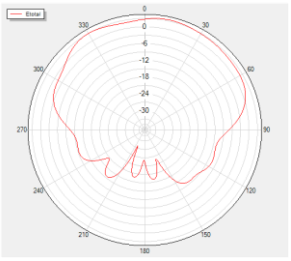
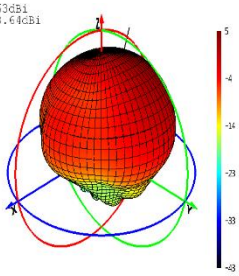
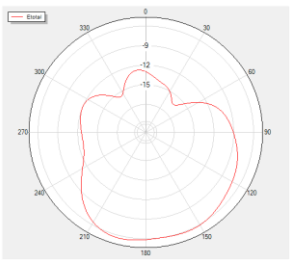
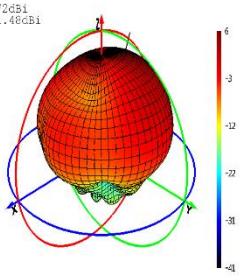
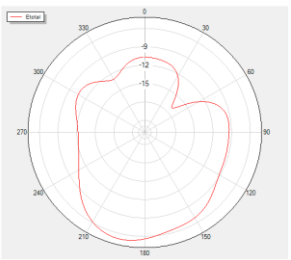
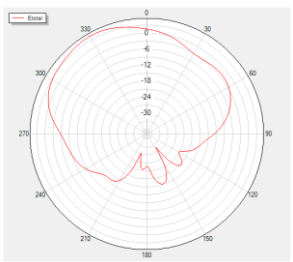
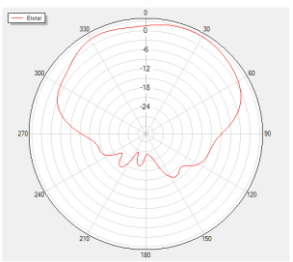
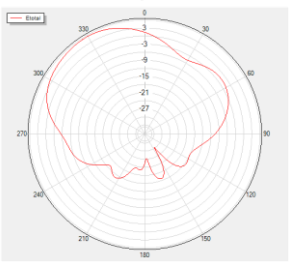
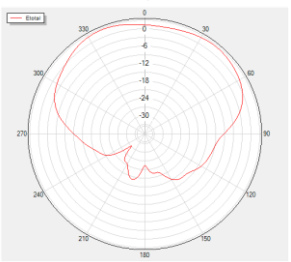
	Theta=90 Freq=2450MHz 		Theta=90 Freq=2600MHz 
Phi=0 Freq=2450MHz 	Phi=90 Freq=2450MHz 	Phi=0 Freq=2600MHz 	Phi=90 Freq=2600MHz 
3600 MHz		4000 MHz	
	Theta=90 Freq=3600MHz 		Theta=90 Freq=4000MHz 
Phi=0 Freq=3600MHz 	Phi=90 Freq=3600MHz 	Phi=0 Freq=4000MHz 	Phi=90 Freq=4000MHz 
4700 MHz		5500 MHz	
	Theta=90 Freq=4700MHz 		Theta=90 Freq=5500MHz 

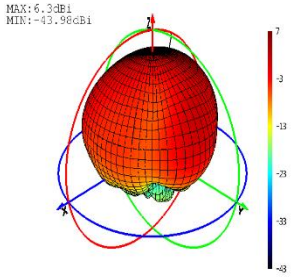
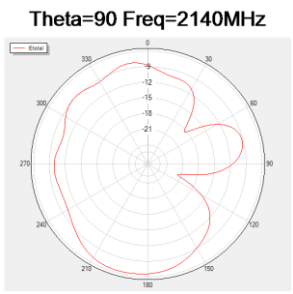
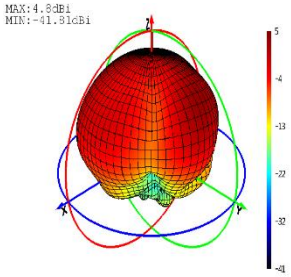
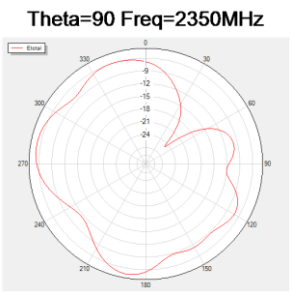
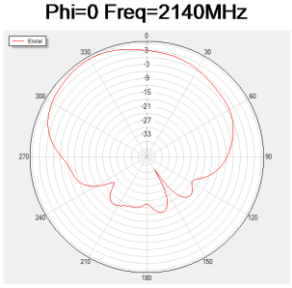
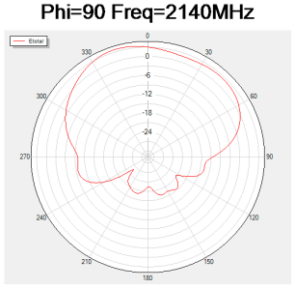
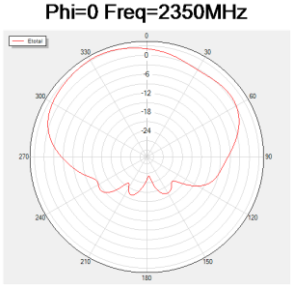
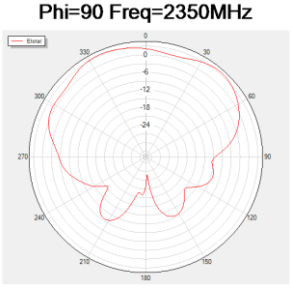
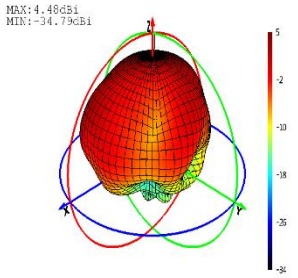
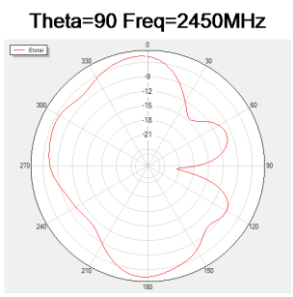
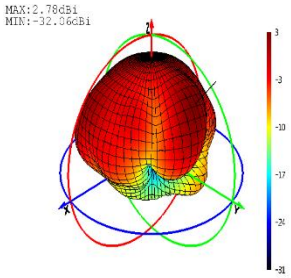
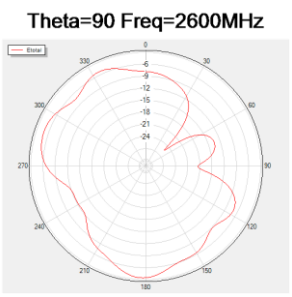
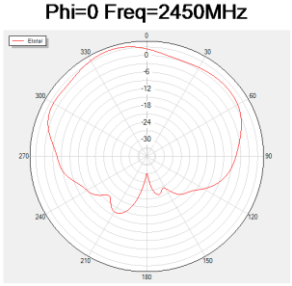
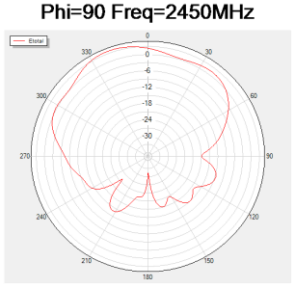
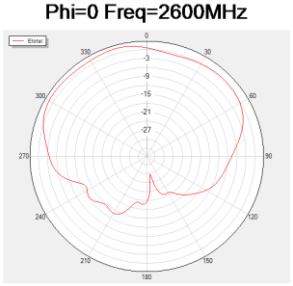
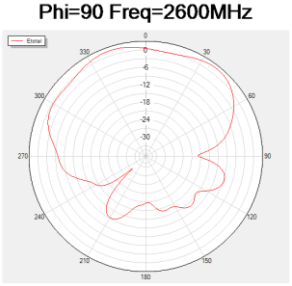
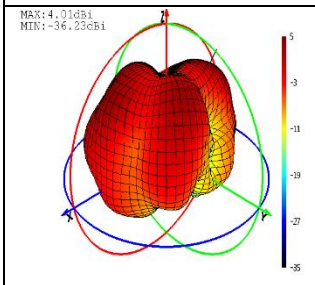
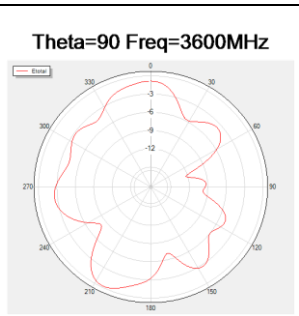
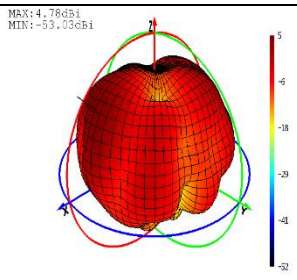
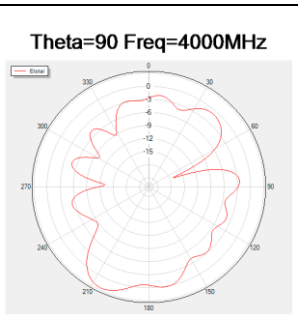
Phi=0 Freq=4700MHz 	Phi=90 Freq=4700MHz 	Phi=0 Freq=5500MHz 	Phi=90 Freq=5500MHz 
LMH2			
630 MHz		710 MHz	
MAX:-1.47dBi MIN:-30.74dBi 	Theta=90 Freq=630MHz 	MAX:0.08dBi MIN:-26.31dBi 	Theta=90 Freq=710MHz 
Phi=0 Freq=630MHz 	Phi=90 Freq=630MHz 	Phi=0 Freq=710MHz 	Phi=90 Freq=710MHz 
830 MHz		900 MHz	
MAX:4.08dBi MIN:-29.7dBi 	Theta=90 Freq=830MHz 	MAX:3.01dBi MIN:-31.7dBi 	Theta=90 Freq=900MHz 
Phi=0 Freq=830MHz 	Phi=90 Freq=830MHz 	Phi=0 Freq=900MHz 	Phi=90 Freq=900MHz 
1440 MHz		1740 MHz	

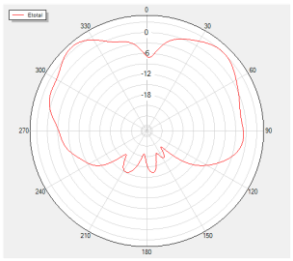
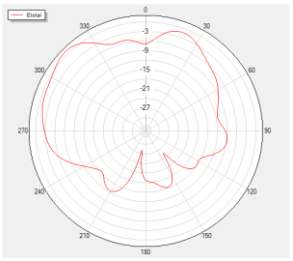
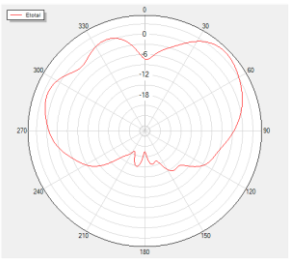
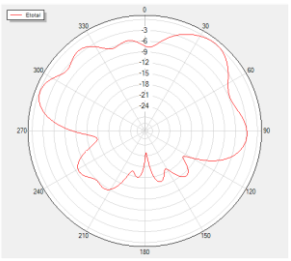
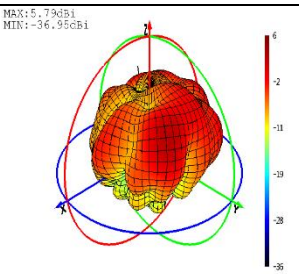
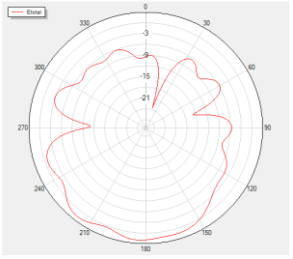
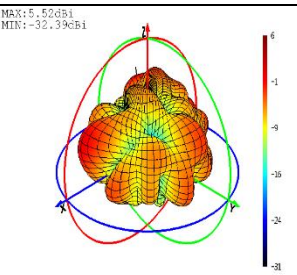
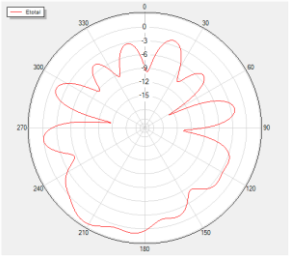
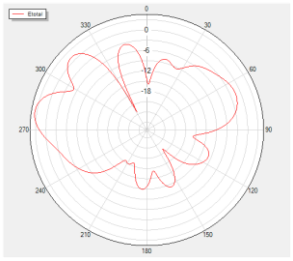
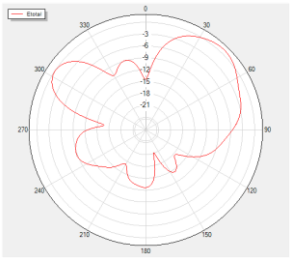
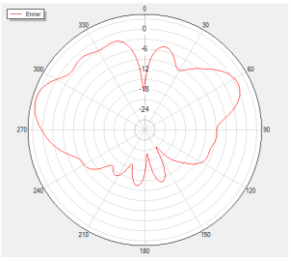
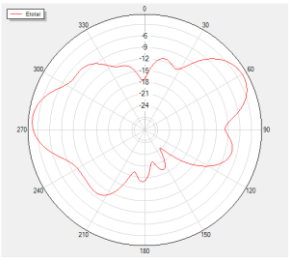
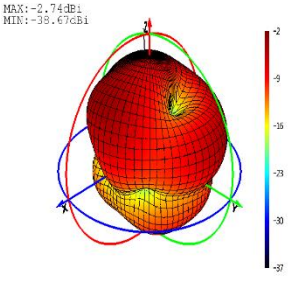
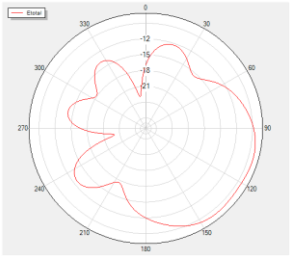
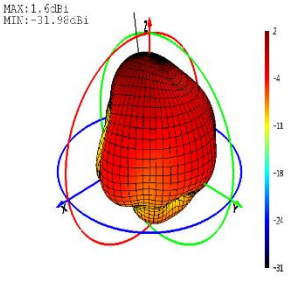
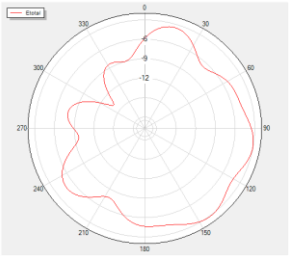
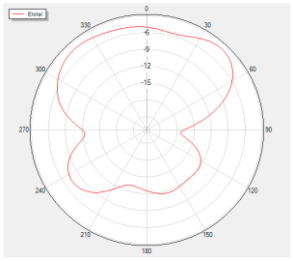
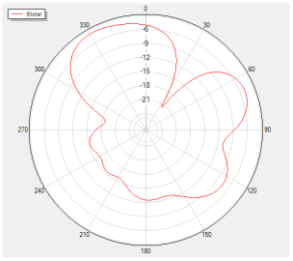
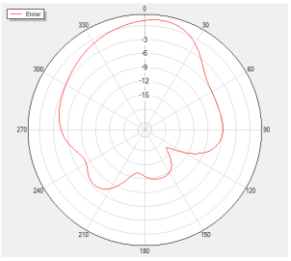
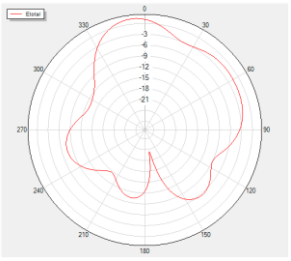
			
			
1880 MHz		1950 MHz	
			
			
2140 MHz		2350 MHz	
			

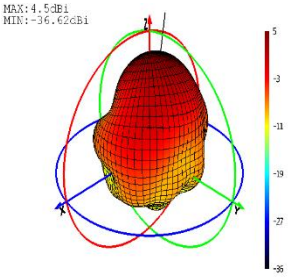
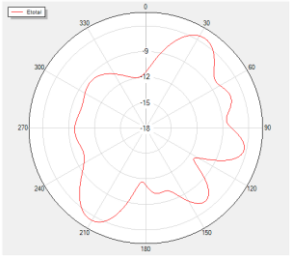
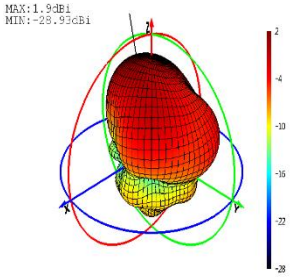
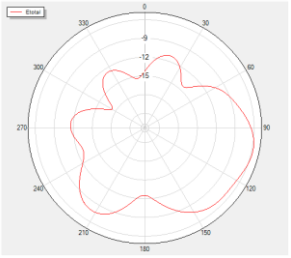
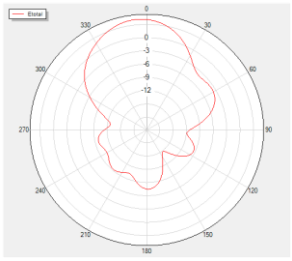
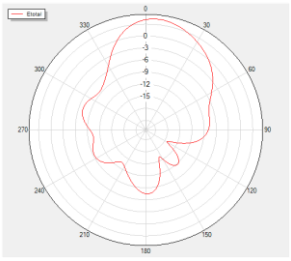
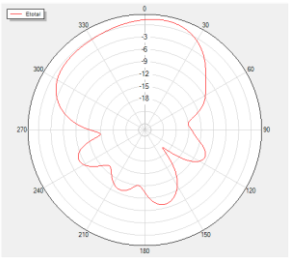
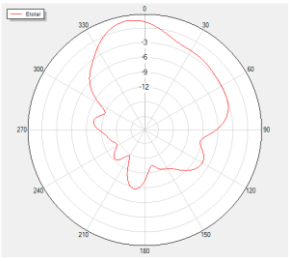
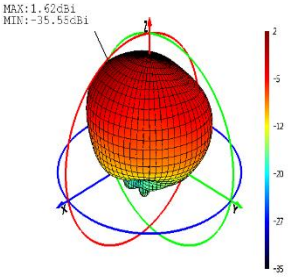
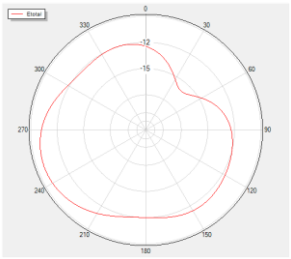
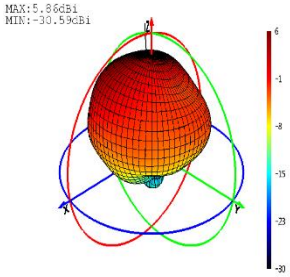
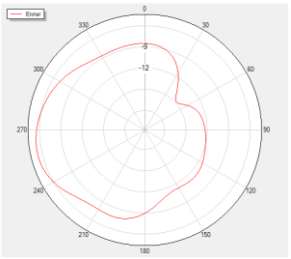
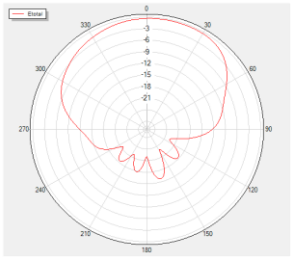
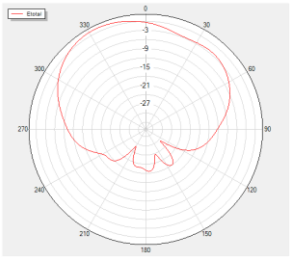
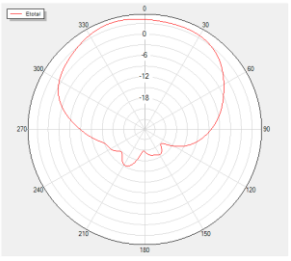
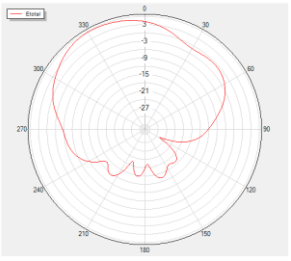
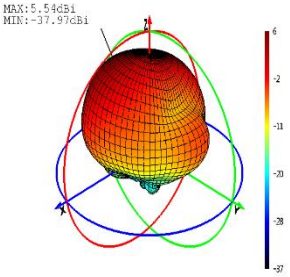
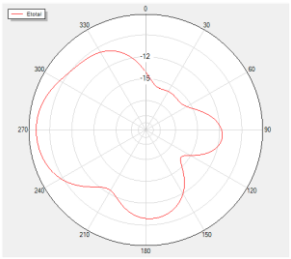
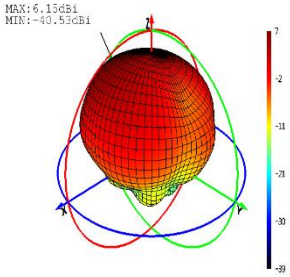
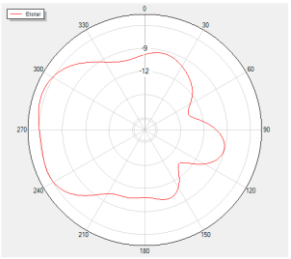
Phi=0 Freq=2140MHz 	Phi=90 Freq=2140MHz 	Phi=0 Freq=2350MHz 	Phi=90 Freq=2350MHz 
2450 MHz		2600 MHz	
MAX:5.25dBi MIN:-28.79dBi 	Theta=90 Freq=2450MHz 	MAX:4.81dBi MIN:-31.25dBi 	Theta=90 Freq=2600MHz 
Phi=0 Freq=2450MHz 	Phi=90 Freq=2450MHz 	Phi=0 Freq=2600MHz 	Phi=90 Freq=2600MHz 
3600 MHz		4000 MHz	
MAX:5.37dBi MIN:-37.6dBi 	Theta=90 Freq=3600MHz 	MAX:5.12dBi MIN:-30.29dBi 	Theta=90 Freq=4000MHz 
Phi=0 Freq=3600MHz 	Phi=90 Freq=3600MHz 	Phi=0 Freq=4000MHz 	Phi=90 Freq=4000MHz 
4700 MHz		5500 MHz	

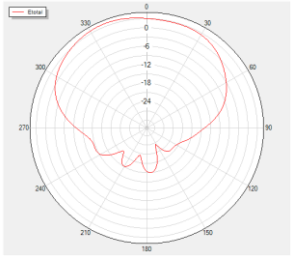
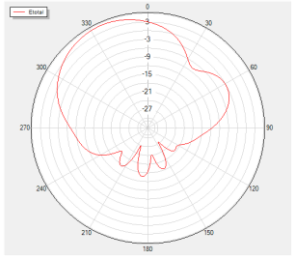
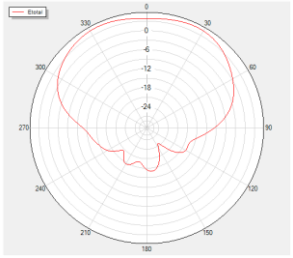
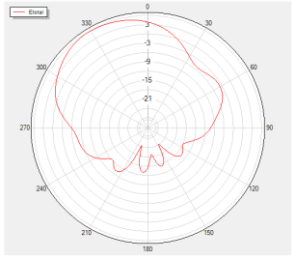
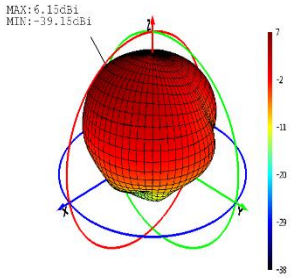
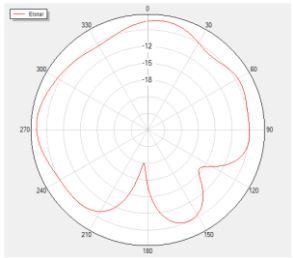
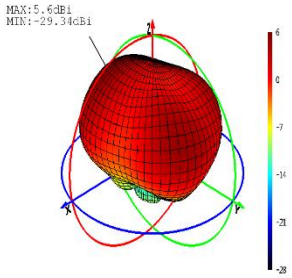
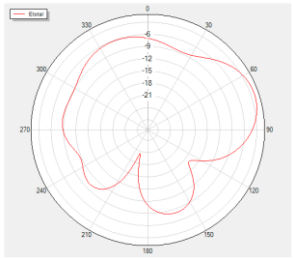
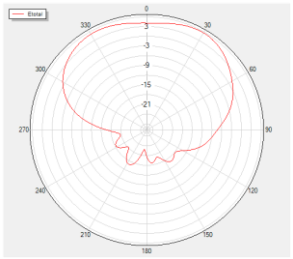
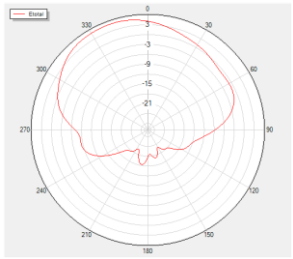
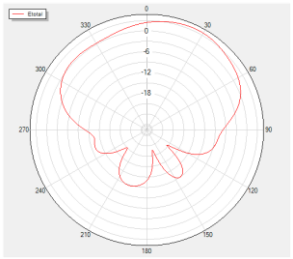
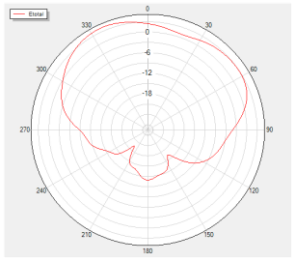
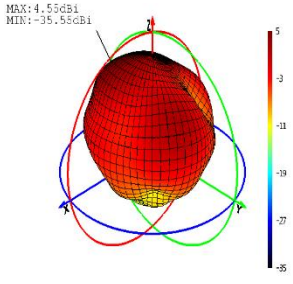
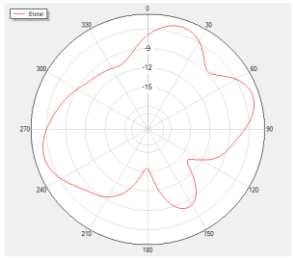
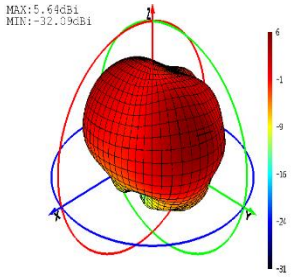
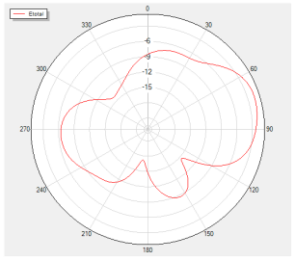
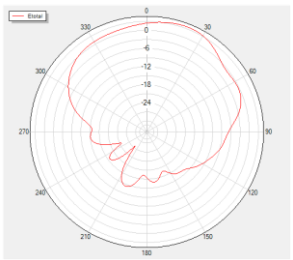
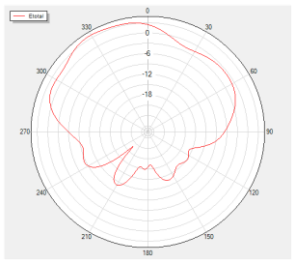
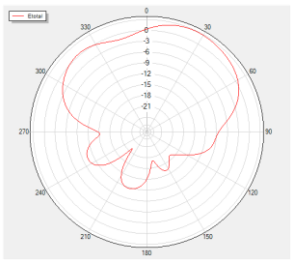
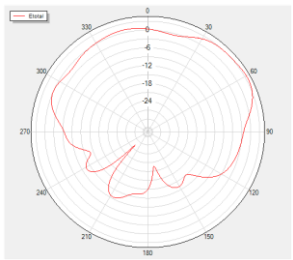
			
			
LMH3			
630 MHz		710 MHz	
			
			
830 MHz		900 MHz	
			

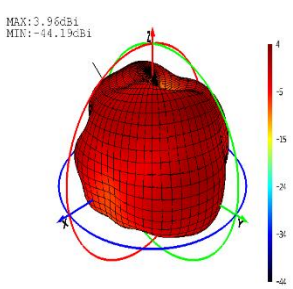
Phi=0 Freq=830MHz 	Phi=90 Freq=830MHz 	Phi=0 Freq=900MHz 	Phi=90 Freq=900MHz 
1440 MHz		1740 MHz	
MAX:2.37dBi MIN:-38.12dBi 	Theta=90 Freq=1440MHz 	MAX:5.93dBi MIN:-31.53dBi 	Theta=90 Freq=1740MHz 
Phi=0 Freq=1440MHz 	Phi=90 Freq=1440MHz 	Phi=0 Freq=1740MHz 	Phi=90 Freq=1740MHz 
1880 MHz		1950 MHz	
MAX:4.63dBi MIN:-43.64dBi 	Theta=90 Freq=1880MHz 	MAX:5.72dBi MIN:-41.48dBi 	Theta=90 Freq=1950MHz 
Phi=0 Freq=1880MHz 	Phi=90 Freq=1880MHz 	Phi=0 Freq=1950MHz 	Phi=90 Freq=1950MHz 
2140 MHz		2350 MHz	

			
			
2450 MHz		2600 MHz	
			
			
3600 MHz		4000 MHz	
			

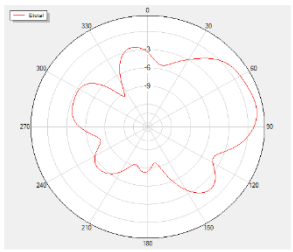
Phi=0 Freq=3600MHz 	Phi=90 Freq=3600MHz 	Phi=0 Freq=4000MHz 	Phi=90 Freq=4000MHz 
4700 MHz		5500 MHz	
MAX:5.79dBi MIN:-36.95dBi 	Theta=90 Freq=4700MHz 	MAX:5.52dBi MIN:-32.39dBi 	Theta=90 Freq=5500MHz 
Phi=0 Freq=4700MHz 	Phi=90 Freq=4700MHz 	Phi=0 Freq=5500MHz 	Phi=90 Freq=5500MHz 
LMH4			
630 MHz		710 MHz	
MAX:-2.74dBi MIN:-38.67dBi 	Theta=90 Freq=630MHz 	MAX:1.6dBi MIN:-31.98dBi 	Theta=90 Freq=710MHz 
Phi=0 Freq=630MHz 	Phi=90 Freq=630MHz 	Phi=0 Freq=710MHz 	Phi=90 Freq=710MHz 
830 MHz		900 MHz	

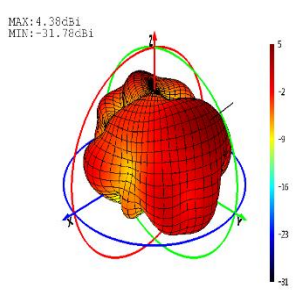
			
			
1440 MHz		1740 MHz	
			
			
1880 MHz		1950 MHz	
			

Phi=0 Freq=1880MHz	Phi=90 Freq=1880MHz	Phi=0 Freq=1950MHz	Phi=90 Freq=1950MHz
			
2140 MHz		2350 MHz	
	Theta=90 Freq=2140MHz 		Theta=90 Freq=2350MHz 
Phi=0 Freq=2140MHz	Phi=90 Freq=2140MHz	Phi=0 Freq=2350MHz	Phi=90 Freq=2350MHz
			
2450 MHz		2600 MHz	
	Theta=90 Freq=2450MHz 		Theta=90 Freq=2600MHz 
Phi=0 Freq=2450MHz	Phi=90 Freq=2450MHz	Phi=0 Freq=2600MHz	Phi=90 Freq=2600MHz
			
3600 MHz		4000 MHz	

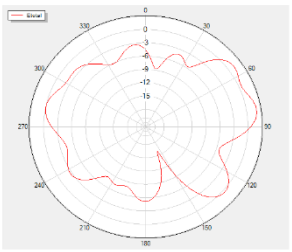


Theta=90 Freq=3600MHz

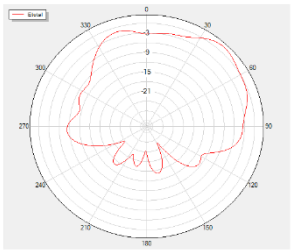




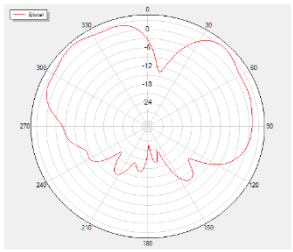
Theta=90 Freq=4000MHz



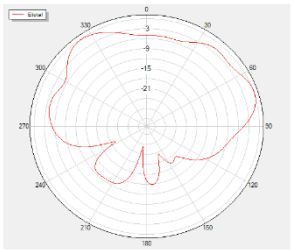
Phi=0 Freq=3600MHz



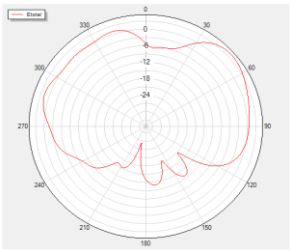
Phi=90 Freq=3600MHz



Phi=0 Freq=4000MHz

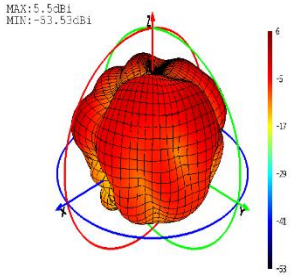


Phi=90 Freq=4000MHz

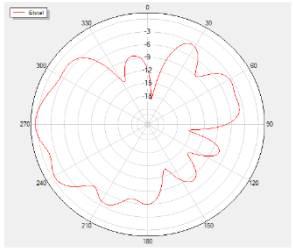


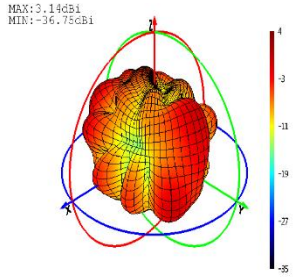
4700 MHz

5500 MHz

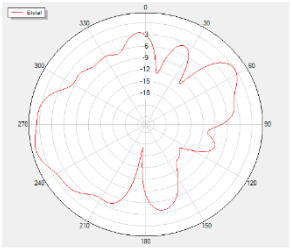


Theta=90 Freq=4700MHz

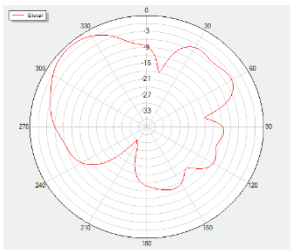




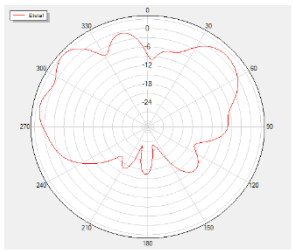
Theta=90 Freq=5500MHz



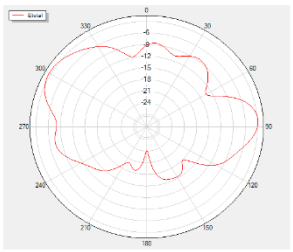
Phi=0 Freq=4700MHz



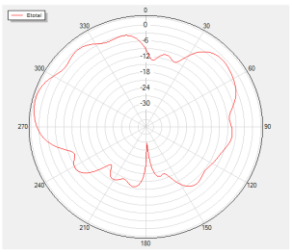
Phi=90 Freq=4700MHz



Phi=0 Freq=5500MHz



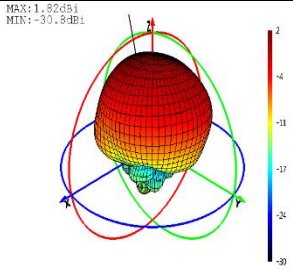
Phi=90 Freq=5500MHz



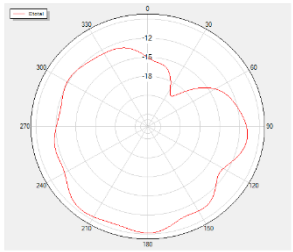
MH1

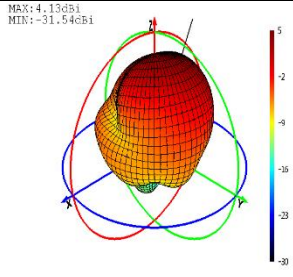
1440 MHz

1740 MHz



Theta=90 Freq=1440MHz





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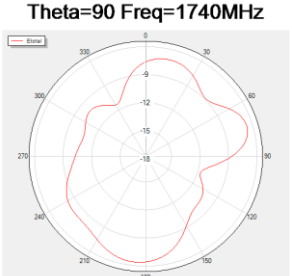
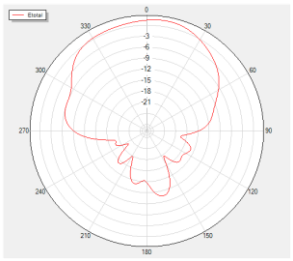
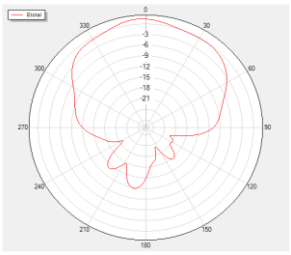
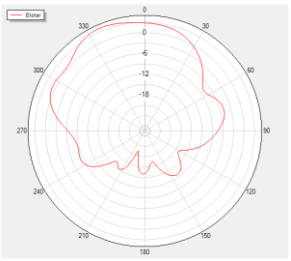
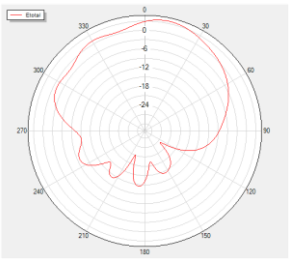


Phi=0 Freq=1440MHz 	Phi=90 Freq=1440MHz 	Phi=0 Freq=1740MHz 	Phi=90 Freq=1740MHz 
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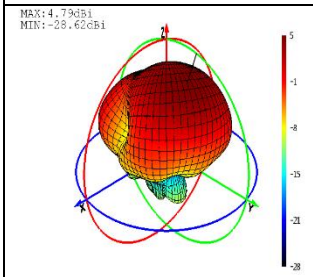
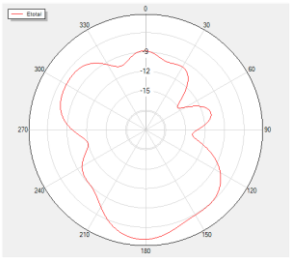
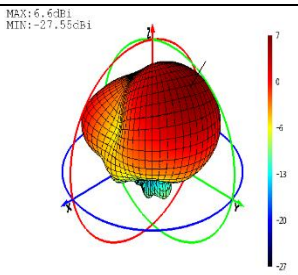
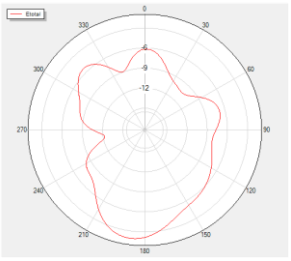
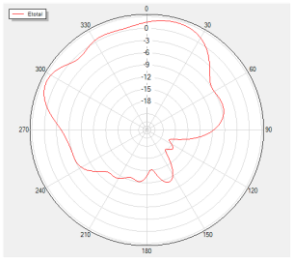
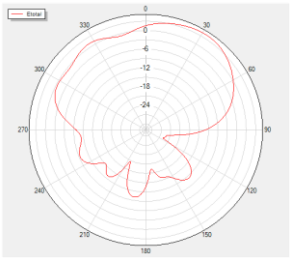
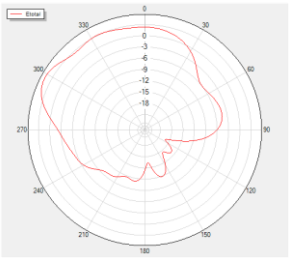
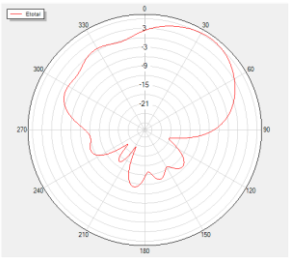
	Theta=90 Freq=1880MHz 		Theta=90 Freq=1950MHz 
Phi=0 Freq=1880MHz 	Phi=90 Freq=1880MHz 	Phi=0 Freq=1950MHz 	Phi=90 Freq=1950MHz 
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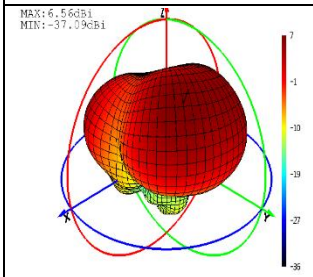
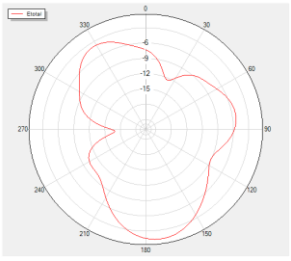
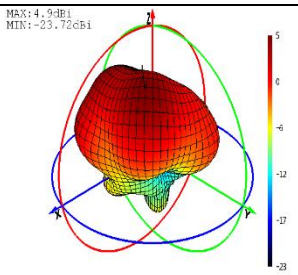
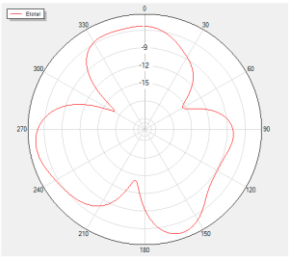
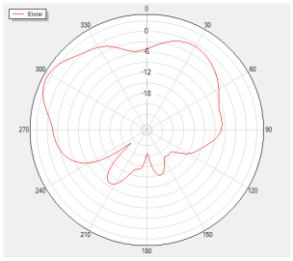
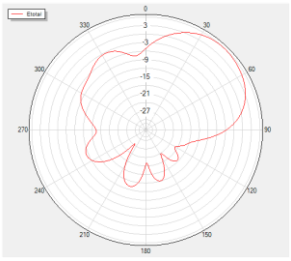
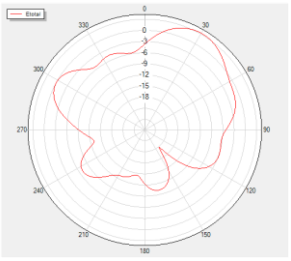
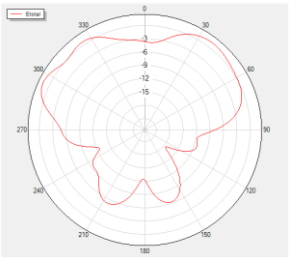
	Theta=90 Freq=2140MHz 		Theta=90 Freq=2350MHz 
Phi=0 Freq=2140MHz 	Phi=90 Freq=2140MHz 	Phi=0 Freq=2350MHz 	Phi=90 Freq=2350MHz 
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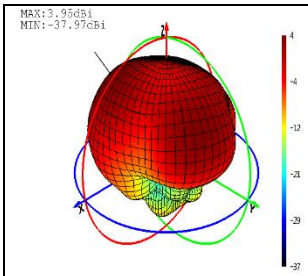
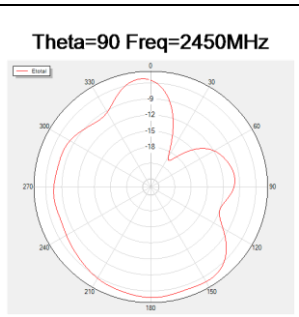
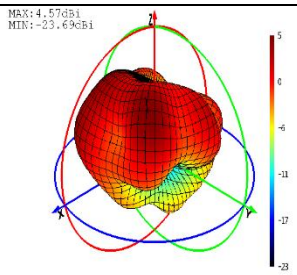
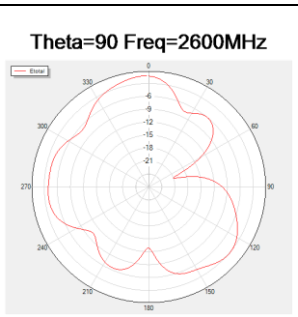
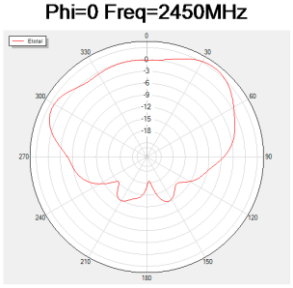
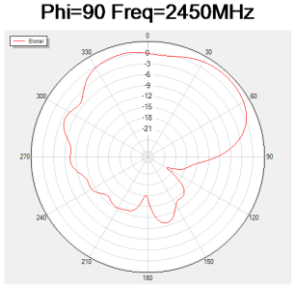


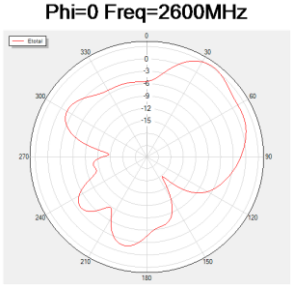


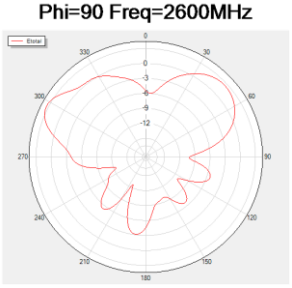






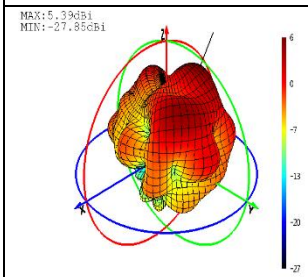


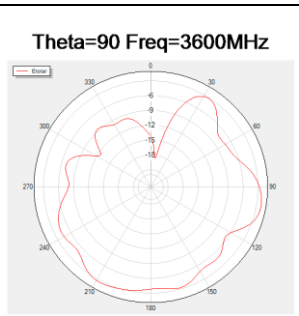


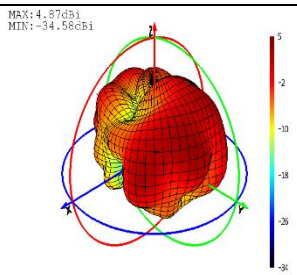


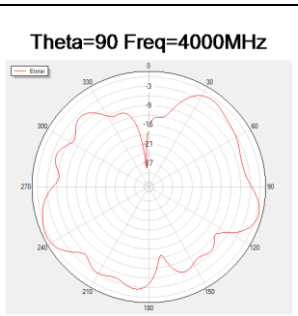
3600 MHz

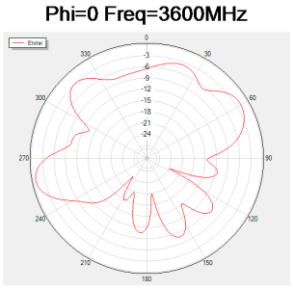
4000 MHz

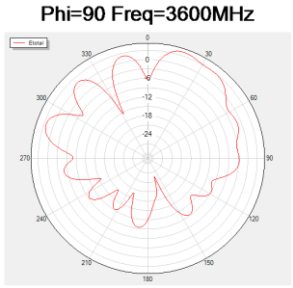


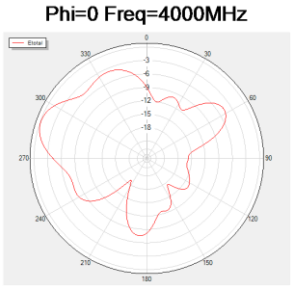


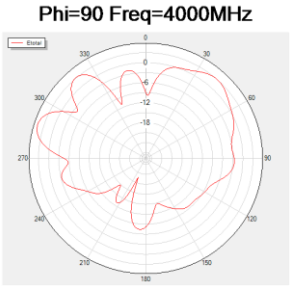






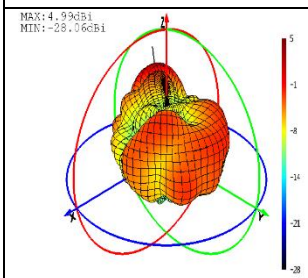


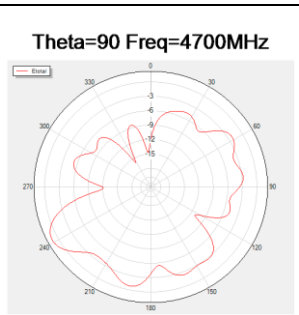


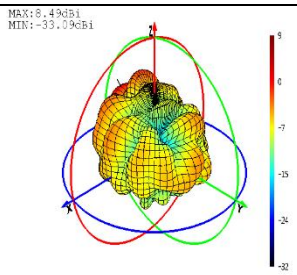


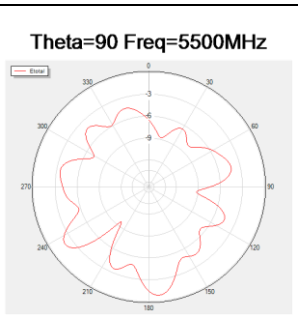
4700 MHz

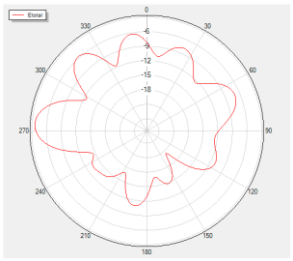
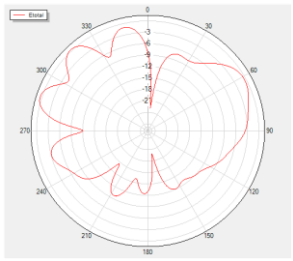
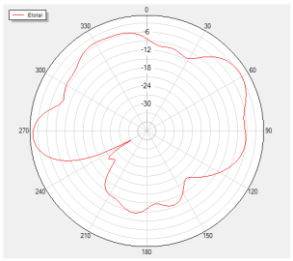
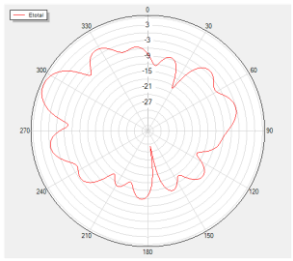
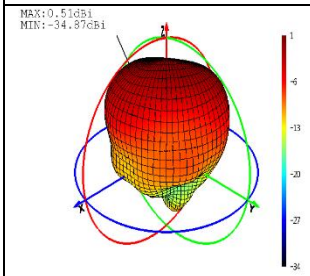
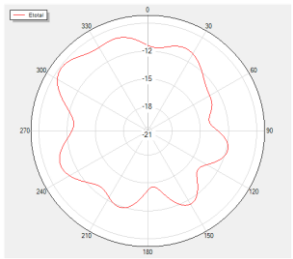
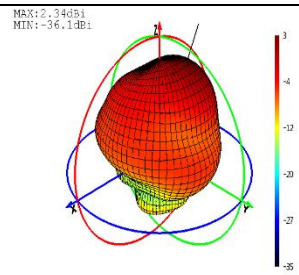
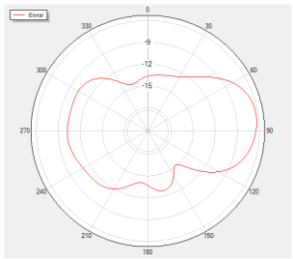
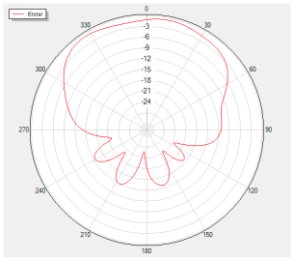
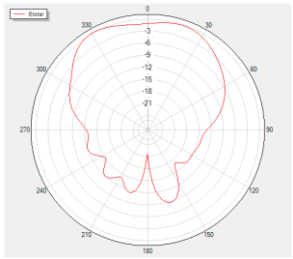
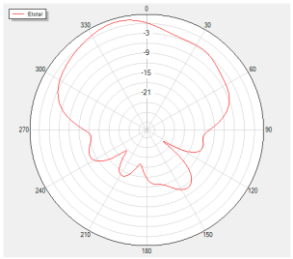
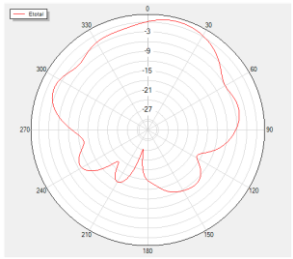
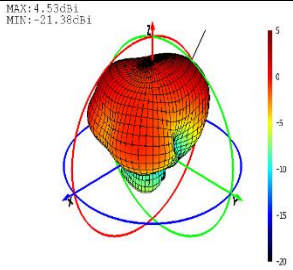
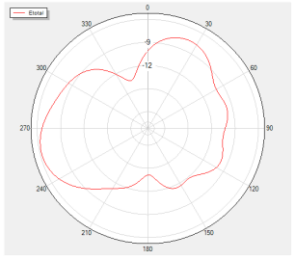
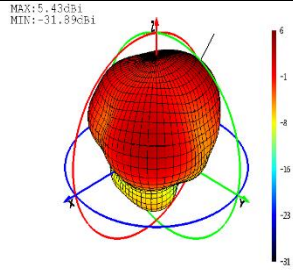
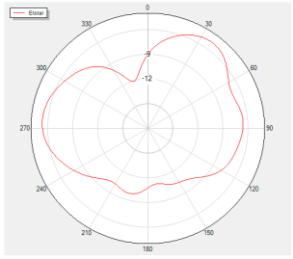
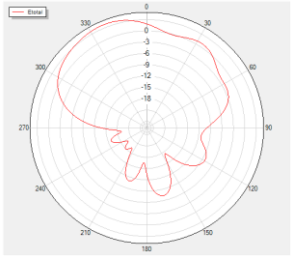
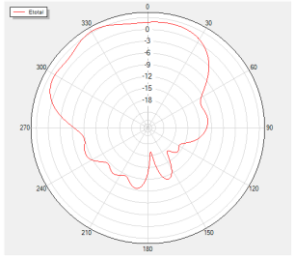
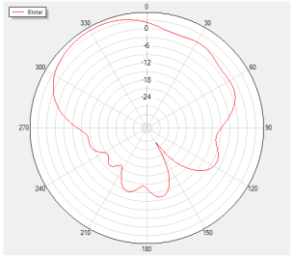
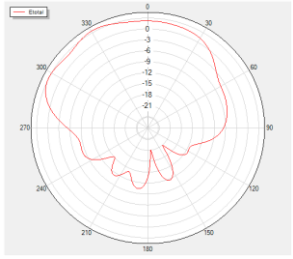
5500 MHz

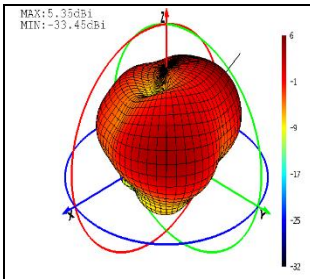


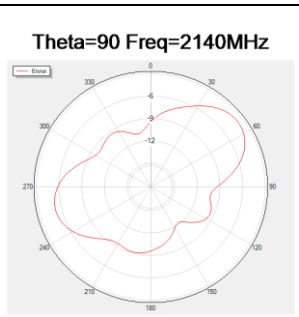


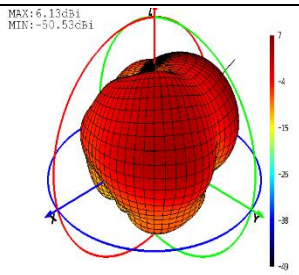


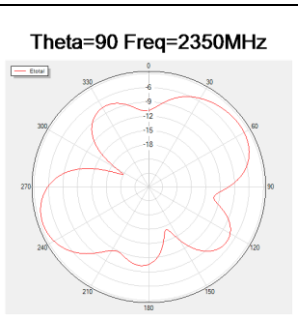


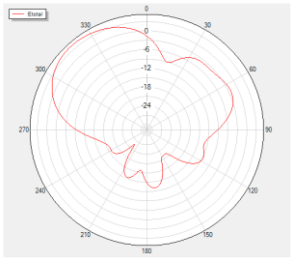
Phi=0 Freq=4700MHz 	Phi=90 Freq=4700MHz 	Phi=0 Freq=5500MHz 	Phi=90 Freq=5500MHz 
MH2			
1440 MHz		1740 MHz	
	Theta=90 Freq=1440MHz 		Theta=90 Freq=1740MHz 
Phi=0 Freq=1440MHz 	Phi=90 Freq=1440MHz 	Phi=0 Freq=1740MHz 	Phi=90 Freq=1740MHz 
1880 MHz		1950 MHz	
	Theta=90 Freq=1880MHz 		Theta=90 Freq=1950MHz 
Phi=0 Freq=1880MHz 	Phi=90 Freq=1880MHz 	Phi=0 Freq=1950MHz 	Phi=90 Freq=1950MHz 
2140 MHz		2350 MHz	

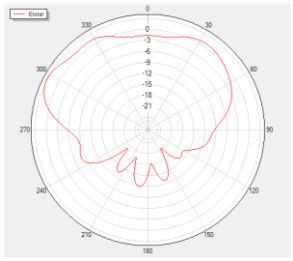


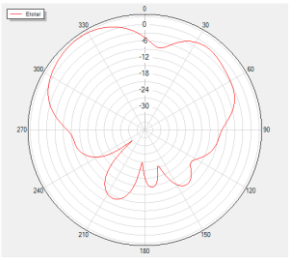


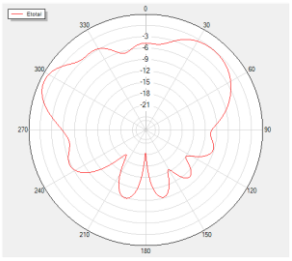






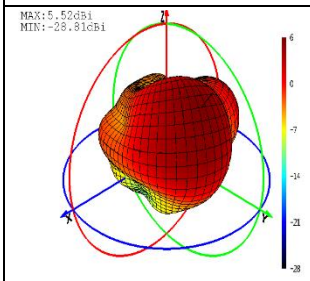


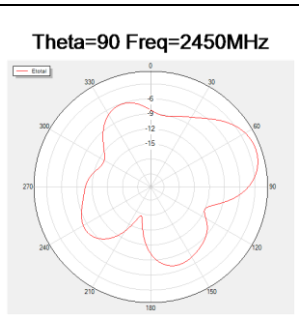


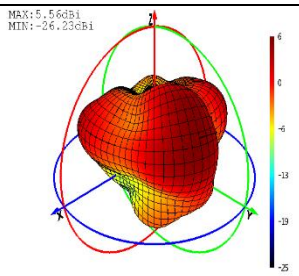


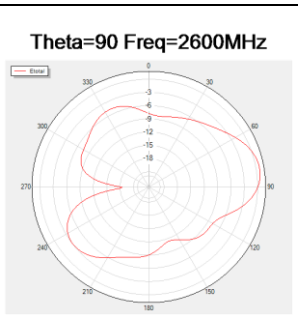
2450 MHz

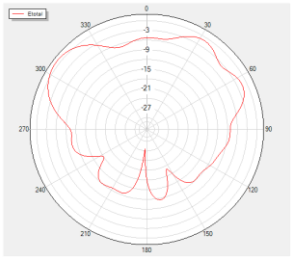
2600 MHz

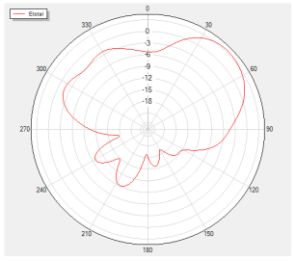


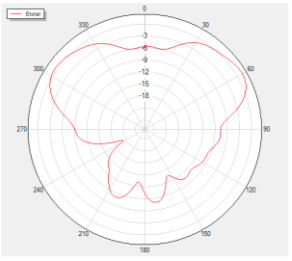


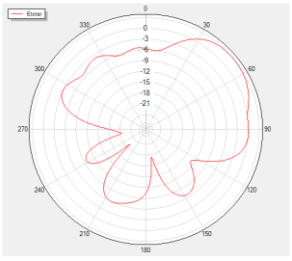






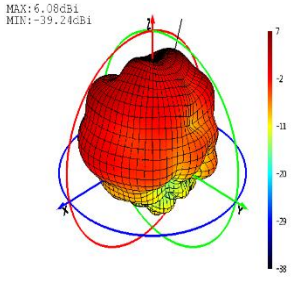


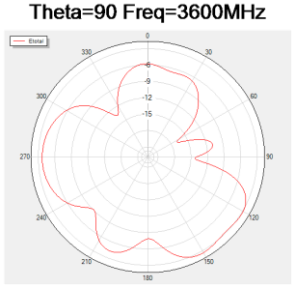


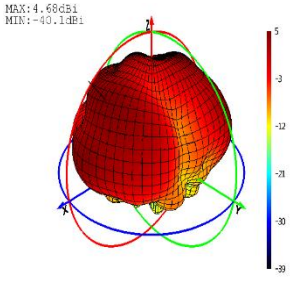


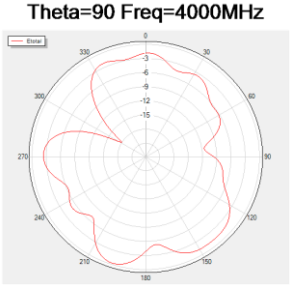
3600 MHz

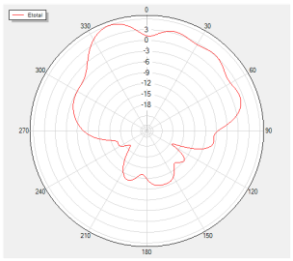
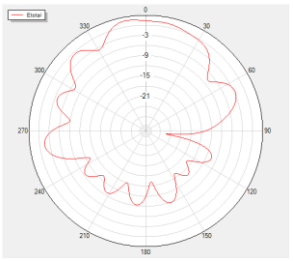
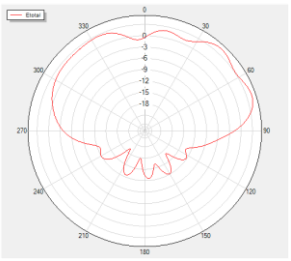
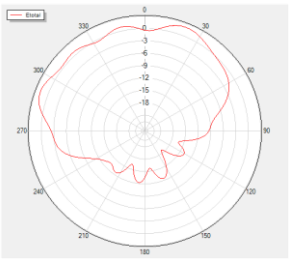
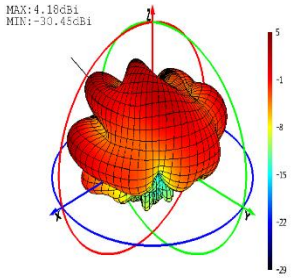
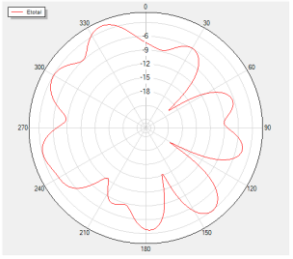
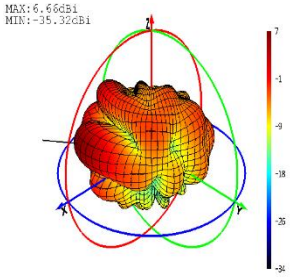
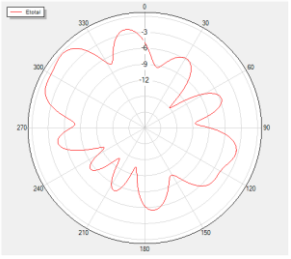
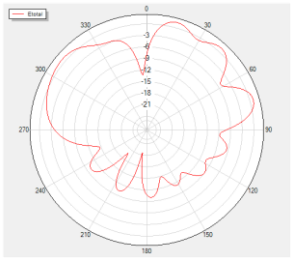
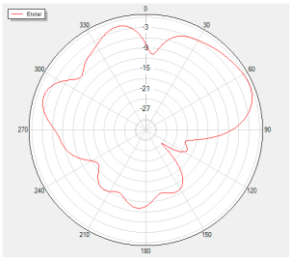
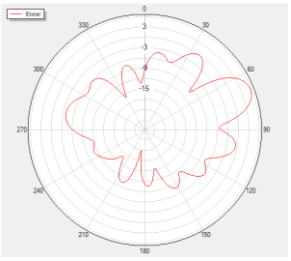
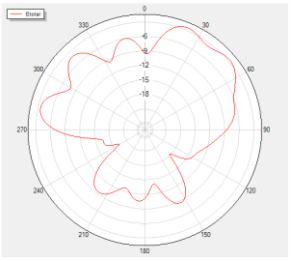
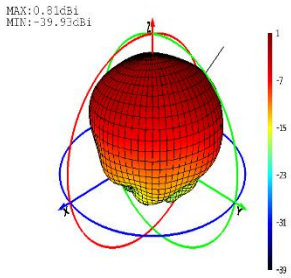
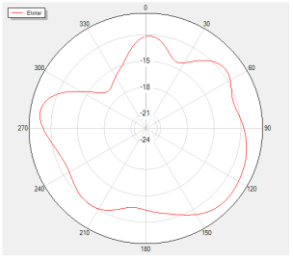
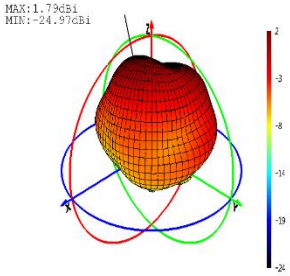
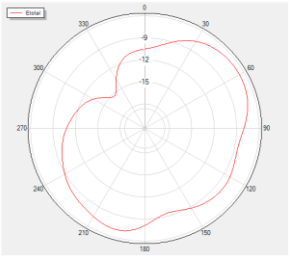
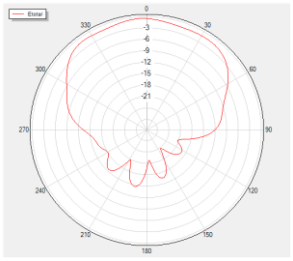
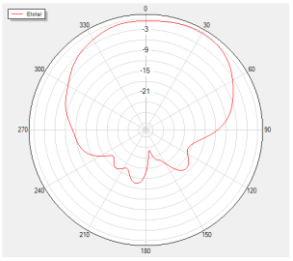
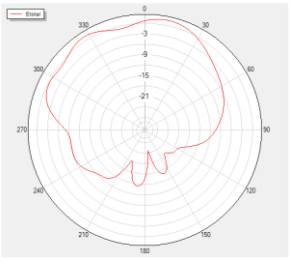
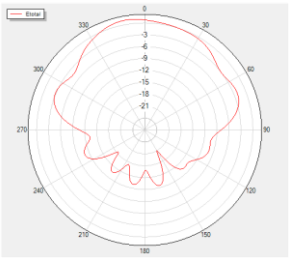
4000 MHz

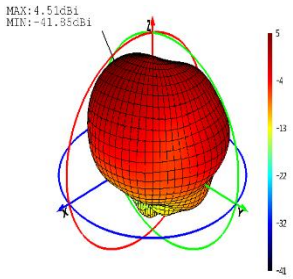
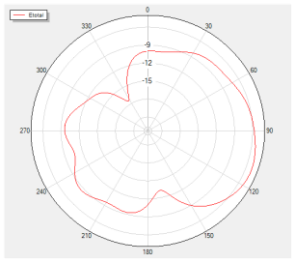
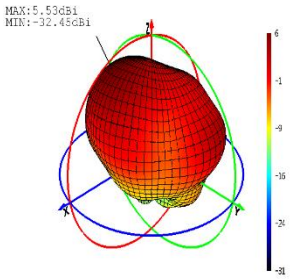
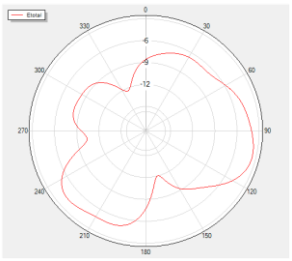
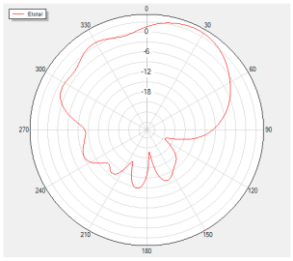
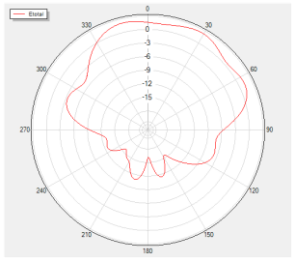
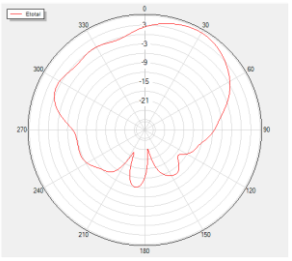
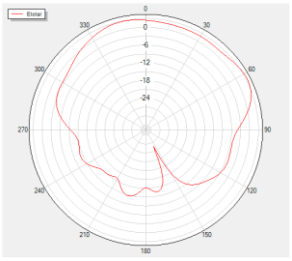
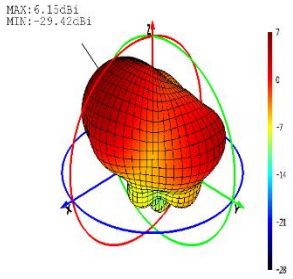
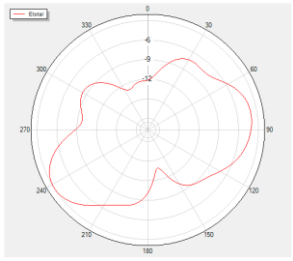
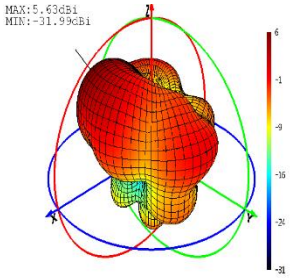
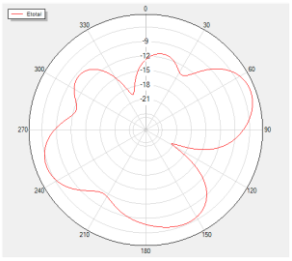
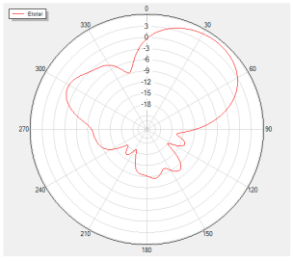
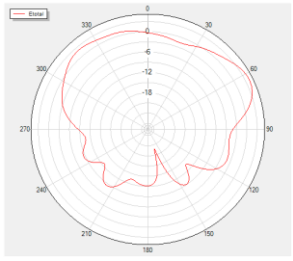
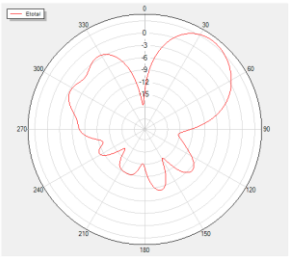
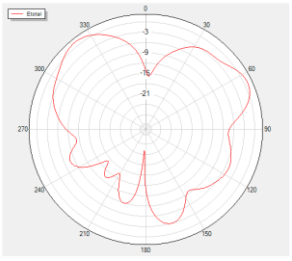








Phi=0 Freq=3600MHz 	Phi=90 Freq=3600MHz 	Phi=0 Freq=4000MHz 	Phi=90 Freq=4000MHz 
4700 MHz		5500 MHz	
	Theta=90 Freq=4700MHz 		Theta=90 Freq=5500MHz 
Phi=0 Freq=4700MHz 	Phi=90 Freq=4700MHz 	Phi=0 Freq=5500MHz 	Phi=90 Freq=5500MHz 
MH3			
1440 MHz		1740 MHz	
	Theta=90 Freq=1440MHz 		Theta=90 Freq=1740MHz 
Phi=0 Freq=1440MHz 	Phi=90 Freq=1440MHz 	Phi=0 Freq=1740MHz 	Phi=90 Freq=1740MHz 
1880 MHz		1950 MHz	

			
			
2140 MHz		2350 MHz	
			
			
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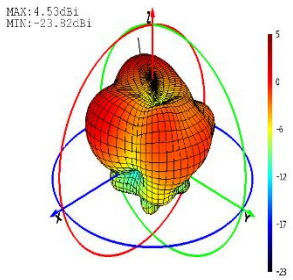
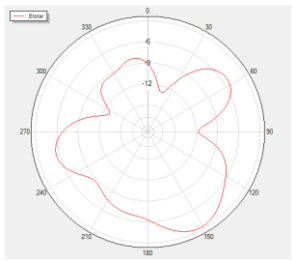
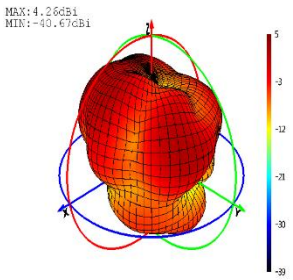
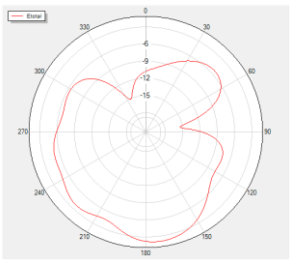
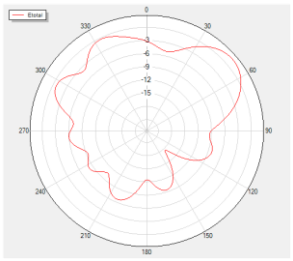
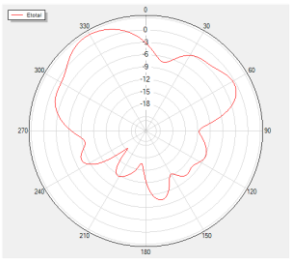
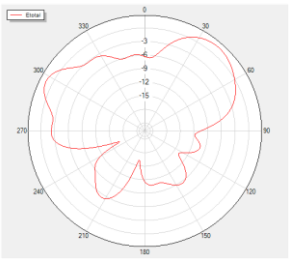
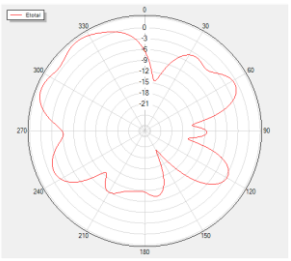
			

Phi=0 Freq=2450MHz 	Phi=90 Freq=2450MHz 	Phi=0 Freq=2600MHz 	Phi=90 Freq=2600MHz 
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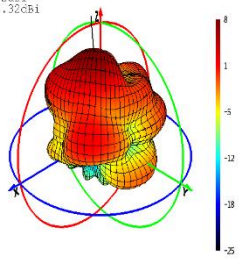
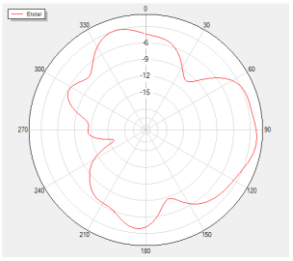
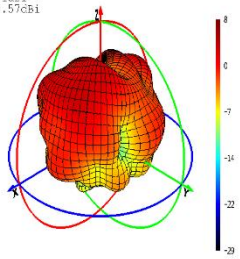
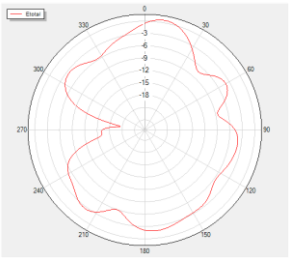
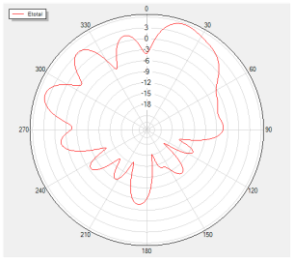
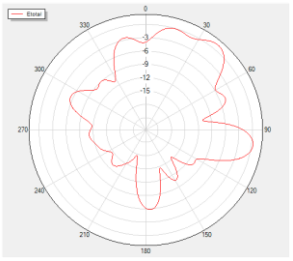
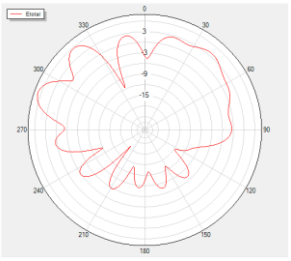
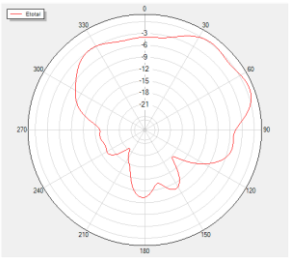
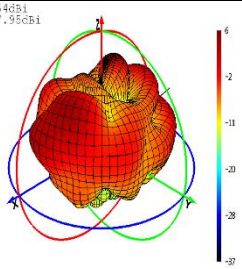
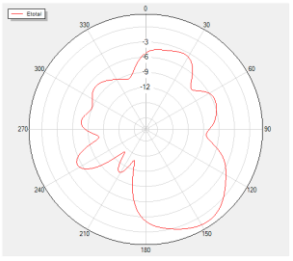
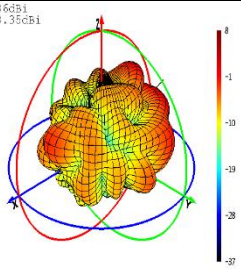
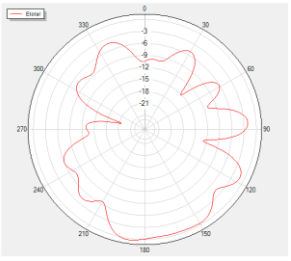
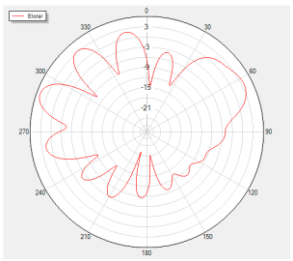
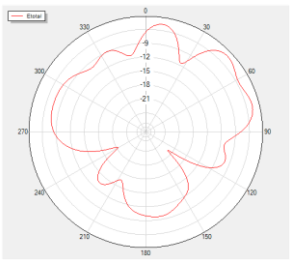
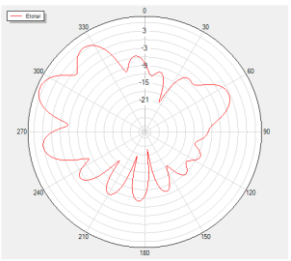
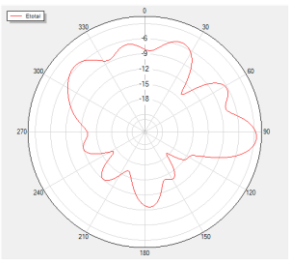
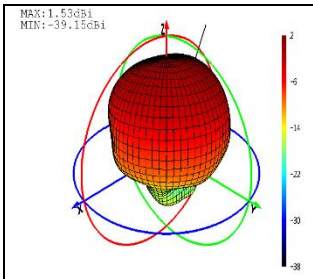
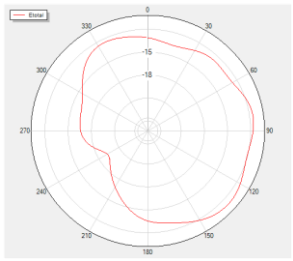
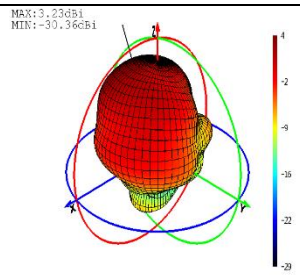
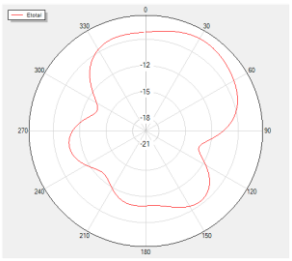
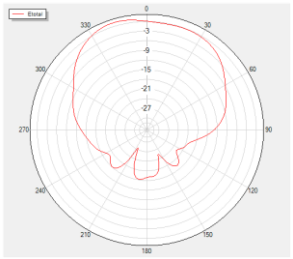
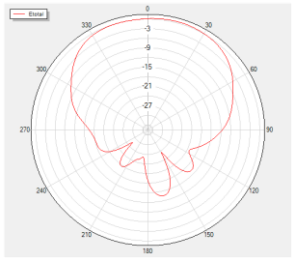
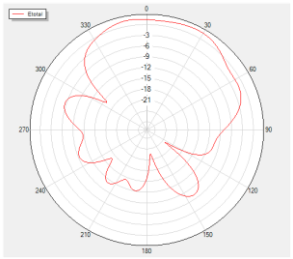
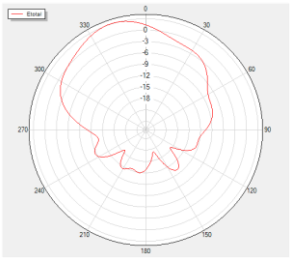
MAX:7.42dBi MIN:-26.32dBi 	Theta=90 Freq=3600MHz 	MAX:7.31dBi MIN:-30.57dBi 	Theta=90 Freq=4000MHz 
Phi=0 Freq=3600MHz 	Phi=90 Freq=3600MHz 	Phi=0 Freq=4000MHz 	Phi=90 Freq=4000MHz 
4700 MHz		5500 MHz	
MAX:5.54dBi MIN:-37.95dBi 	Theta=90 Freq=4700MHz 	MAX:7.36dBi MIN:-38.35dBi 	Theta=90 Freq=5500MHz 
Phi=0 Freq=4700MHz 	Phi=90 Freq=4700MHz 	Phi=0 Freq=5500MHz 	Phi=90 Freq=5500MHz 
MH4			
1440 MHz		1740 MHz	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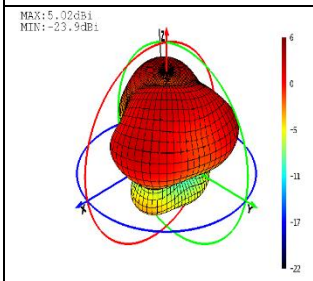
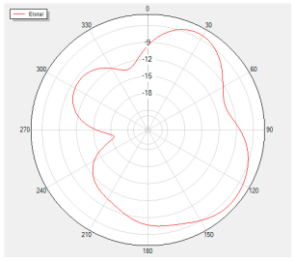
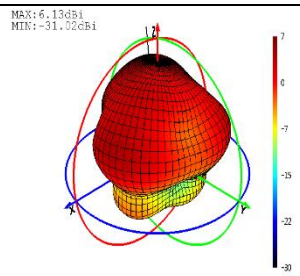
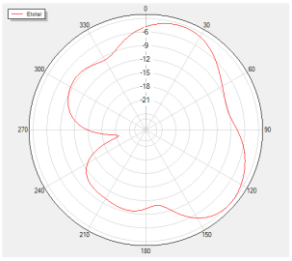
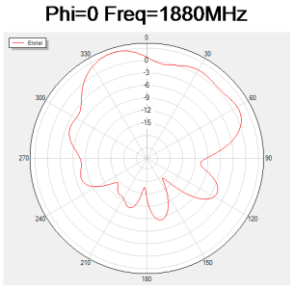
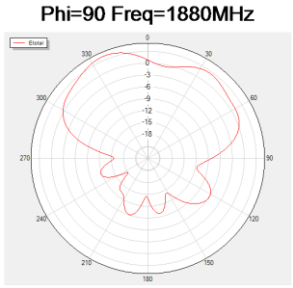
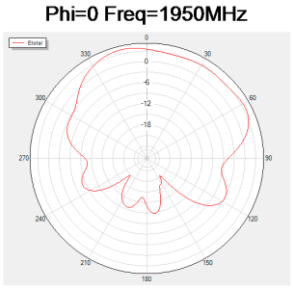
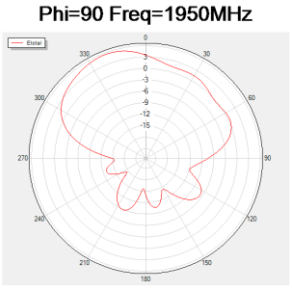
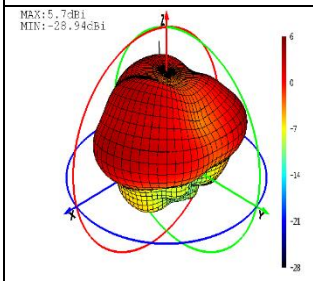
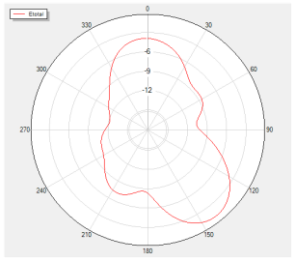
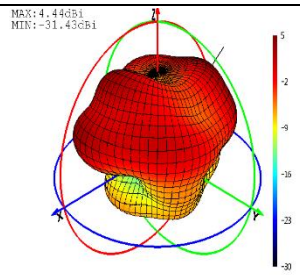
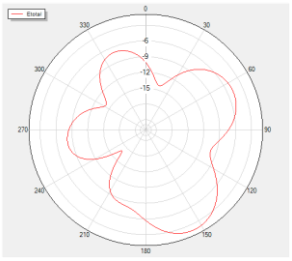
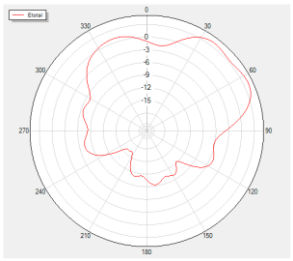
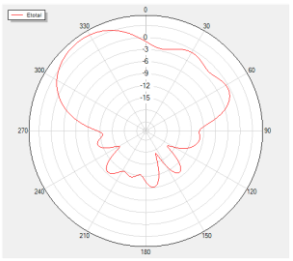
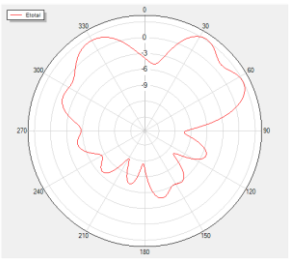
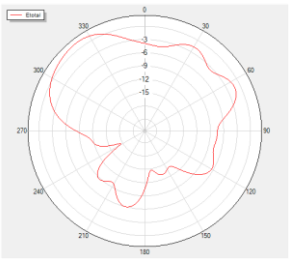
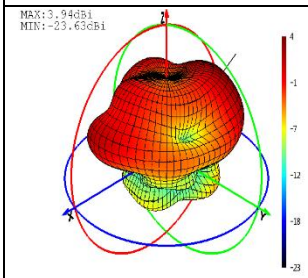
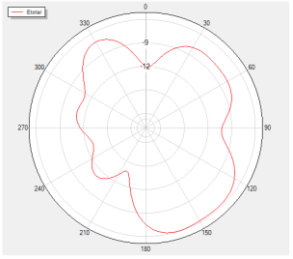
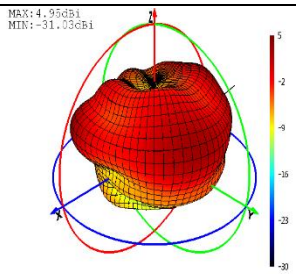
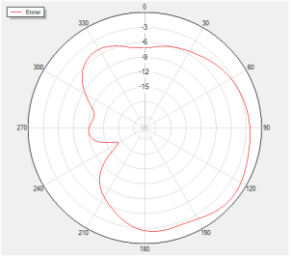
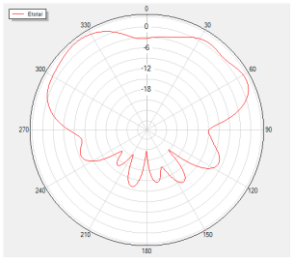
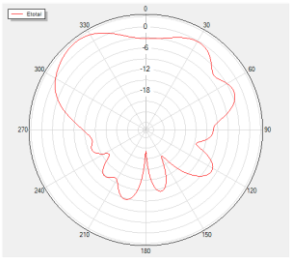
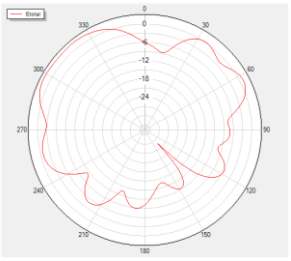
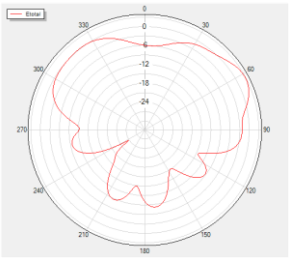
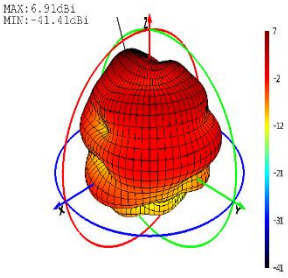
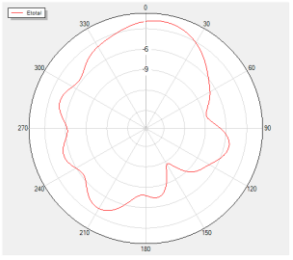
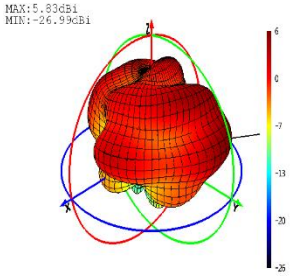
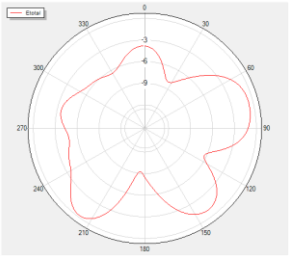
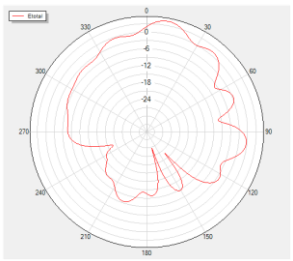
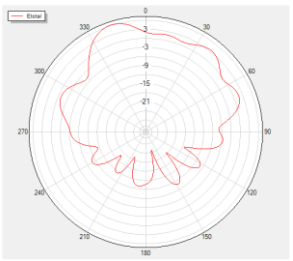
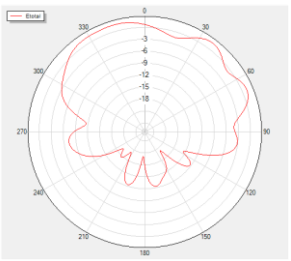
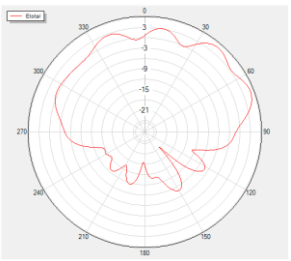
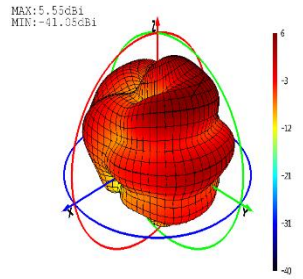
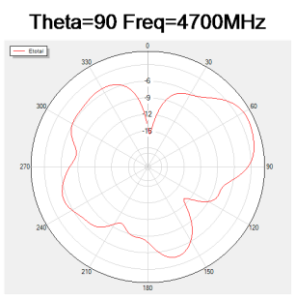
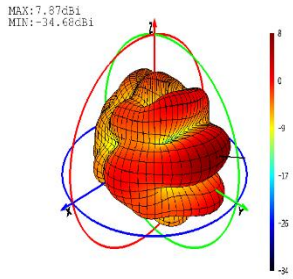
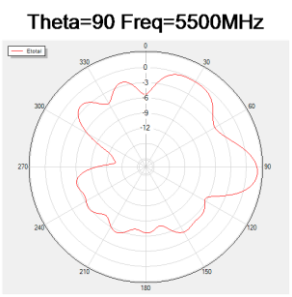
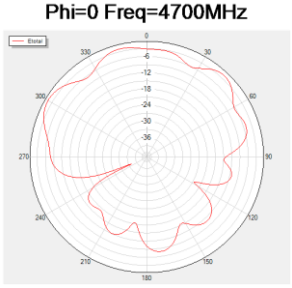
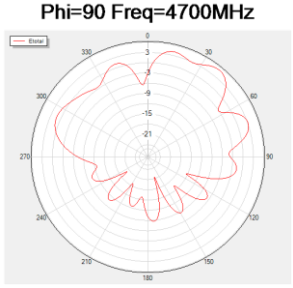
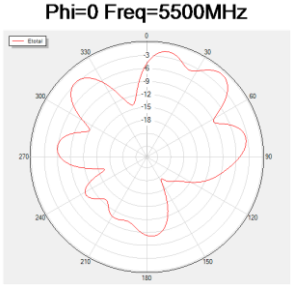
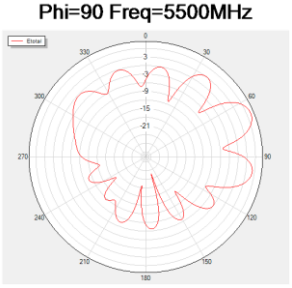
			
			
2140 MHz		2350 MHz	
			

Phi=0 Freq=2140MHz 	Phi=90 Freq=2140MHz 	Phi=0 Freq=2350MHz 	Phi=90 Freq=2350MHz 
2450 MHz		2600 MHz	
	Theta=90 Freq=2450MHz 		Theta=90 Freq=2600MHz 
Phi=0 Freq=2450MHz 	Phi=90 Freq=2450MHz 	Phi=0 Freq=2600MHz 	Phi=90 Freq=2600MHz 
3600 MHz		4000 MHz	
	Theta=90 Freq=3600MHz 		Theta=90 Freq=4000MHz 
Phi=0 Freq=3600MHz 	Phi=90 Freq=3600MHz 	Phi=0 Freq=4000MHz 	Phi=90 Freq=4000MHz 
4700 MHz		5500 MHz	

 MAX:5.55dBi MIN:-41.05dBi	 Theta=90 Freq=4700MHz	 MAX:7.87dBi MIN:-34.68dBi	 Theta=90 Freq=5500MHz
 Phi=0 Freq=4700MHz	 Phi=90 Freq=4700MHz	 Phi=0 Freq=5500MHz	 Phi=90 Freq=5500MHz

3.3 Active OTA Test

- Based on Module: RG502Q-EA & RG500L-NA
- Test Status: In Free Space.

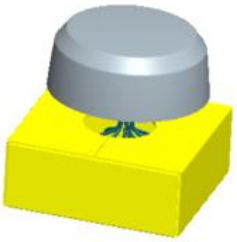
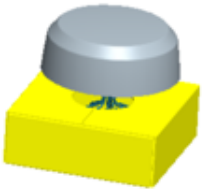
Band		Channel	TRP (dBm)	Channel	TIS (dBm)
LTE	B1 (10M)	18050	20.2	50	-102.7
		18350	19.9	350	-101.7
		18550	19.6	550	-102.1
	B2 (10M)	18650	19.0	650	-101.4
		18900	19.6	900	-101.8
		19150	19.8	1150	-101.4
	B3 (10M)	19250	21.1	1250	-100.4
		19575	20.1	1575	-100.9
		19900	20.7	1900	-100.1
	B4 (10M)	20000	20.5	2000	-102.7
		20175	20.6	2175	-102.6
		20350	20.9	2350	-102.0
	B5 (10M)	20450	19.3	2450	-96.8
		20525	19.4	2525	-96.6
		20600	19.2	2600	-96.9
	B7 (10M)	20800	19.1	2800	-98.3
		21100	20.0	3100	-99.8
		21400	20.7	3400	-100.8
	B8 (10M)	21500	20.0	3500	-97.4
		21625	20.3	3625	-97.7
		21750	20.2	3750	-98.2

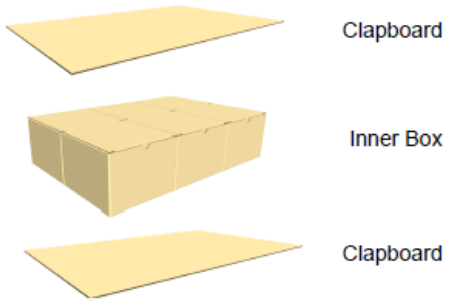
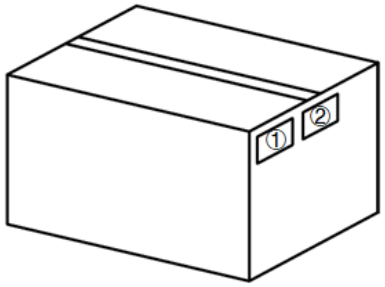
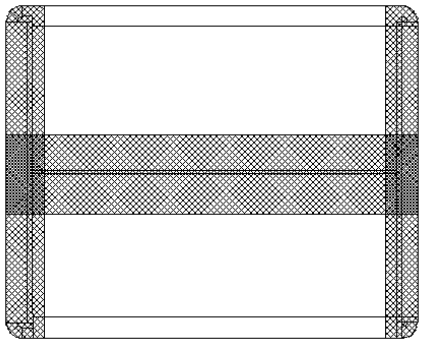
Band		Channel	TRP (dBm)	Channel	TIS (dBm)
	B12 (5M)	23035	19.0	5035	-98.5
		23095	19.2	5095	-97.3
		23155	19.9	5155	-96.1
	B13 (10M)	-	-	-	-
		23230	19.3	5230	-96.2
		-	-	-	-
	B14 (10M)	-	-	-	-
		23330	19.0	5330	-95.0
		-	-	-	-
	B17 (10M)	23780	18.4	5780	-95.9
		23790	18.6	5790	-95.7
		23800	18.6	5800	-95.3
	B18 (10M)	23900	20.4	5900	-97.9
		23925	19.7	5925	-97.8
		23950	19.1	5950	-97.7
	B19 (10M)	24050	19.7	6050	-97.0
		24075	20.4	6075	-97.3
		24100	20.2	6100	-97.3
	B20 (10M)	24200	20.0	6200	-96.9
		24300	19.6	6300	-97.2
		24400	19.7	6400	-97.3
	B25 (10M)	26090	19.4	8090	-100.2
		26365	19.7	8365	-99.8
		26640	19.0	8640	-99.4
	B26 (10M)	26740	18.9	8740	-99.1

Band		Channel	TRP (dBm)	Channel	TIS (dBm)
		26865	19.3	8865	-97.6
		26990	20.6	8990	-98.9
	B28 (10M)	27260	19.2	9260	-96.1
		27335	19.6	9335	-96.6
		27410	18.8	9410	-97.1
	B38 (20M)	37850	20.1	37850	-97.6
		38000	21.7	38000	-97.5
		38150	22.3	38150	-97.6
	B39 (20M)	38350	20.1	38350	-98.3
		38450	20.2	38450	-98.3
		38550	20.2	38550	-98.6
	B40 (20M)	38750	21.4	38750	-97.9
		39150	21.0	39150	-98.4
		39550	20.3	39550	-98.2
	B41 (20M)	40340	20.5	40340	-97.3
		40620	20.9	40620	-97.4
		41140	20.1	41140	-97.2
	B66 (10M)	132022	20.4	66486	-101.8
		132322	20.1	66886	-102.1
		132622	19.5	67086	-101.7
	B71 (10M)	133172	19.9	68636	-96.0
		133297	19.5	68761	-95.1
		133422	19.3	68886	-95.5
5G	**N41 (100M)**	509202	21.77	509202	-90.18
		518598	21.46	518598	-89.72

Band		Channel	TRP (dBm)	Channel	TIS (dBm)
		528000	22.00	528000	-90.44
	N77 (100M)	623334	22.03	623334	-89.77
		650000	22.60	650000	-90.89
		676666	22.48	676666	-90.11
	N78 (100M)	623334	22.20	623334	-90.01
		636666	22.41	636666	-90.59
		650000	22.58	650000	-91.25
	N79 (100M)	697094	20.67	697094	-89.76
		713990	20.23	713990	-89.48
		729468	19.78	729468	-89.10

4 Packaging

Step	Packaging picture / 2D picture	Description
1	 Lined with cardboard	1 PCS: Antenna 1 PCS: Lined with Cardboard Size: 185mm*185*60mm Arrange the antenna and put it inthe lined cardboard
2	 EPE Pearl Foam  Lined with cardboard	1 PCS : EPE Pearl Foam Size: 186mm*186mm*40mm After placing the product, use EPE Pearl Foam on the upper layer
3	 Inner Box	1 PCS :Inner Box Size: 191mm*191mm*135mm Place the antenna and lining cardboard in Inner Box

4		1 PCS : Carton Size: 600mm*404mm*164mm Antenna ： 6 PCS/Carton 2 PCS : Clapboard Size: 588mm*392mm Place 1 Clapboard on the bottom Then 6 pcs Antenna in the middle Then 1 pcs Clapboard on the top
5		**Position for Attaching Labels---** ① Carton Label ② Quality Label
6		**Sealing Cartons---** “工” type sealing cartons

Contact US

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Email: info@quectel.com

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

Version	Date	Author	Note
-	2023-05-29	Mordecai Liu Hart Hu David Liu Vinnie Liu	Creation of the document
1.0	2023-05-29	Mordecai Liu Hart Hu David Liu Vinnie Liu	First official release

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