

Features

- 5GNR Dipole Antenna
- 700MHz~5000MHz of frequency
- SMA Plug
- ROHS compliance

Applications

- LTE/5GNR Communication
- LTE/5GNR Module



Product Description

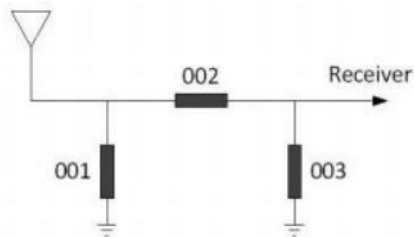
The antenna was specially designed by Wallys Communications (Suzhou) Co., LTD, for 5GNR Dipole Antenna applications . It has excellent stability and sensitivity to consistently provide high signal reception efficiency.

General Data

Product Name	5GNR Dipole Antenna	
Part No.	DRA2005GNRA	
Frequency	700MHz~5000MHz	
V.S.W.R	700MHz~960MHz≤3.0 1710MHz~2690MHz≤2.0 3300MHz~4200MHz≤3.0 4200MHz~5000MHz≤3.0	
Gain(dBi)	700MHz~960MHz 1710MHz~2690MHz 3300MHz~4200MHz 4200MHz~5000MHz	1.6(MAX) 5.5(MAX) 3.6(MAX) 3.5(MAX)
Polarization	Vertical,Linear	
Storage Temp	-40℃~+75℃	
Operating Temperature	-40℃~+65℃	
Waterproof Rating	IP65	
Impedance with Matching	50 Ω	
Dimension	L196*。 13 (mm)	

Typical Electrical Characteristics

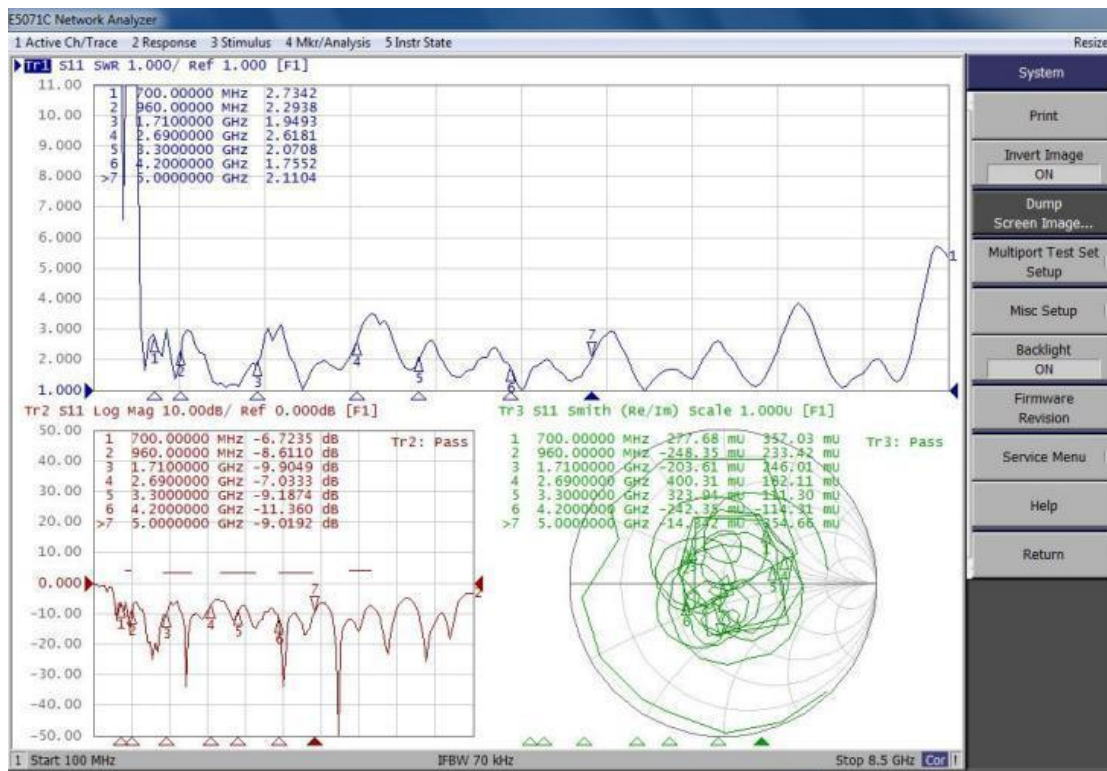
⊕ Recommend Matching Circuit



Reference:

001=(N/A) 002=0Ω
003=(N/A)

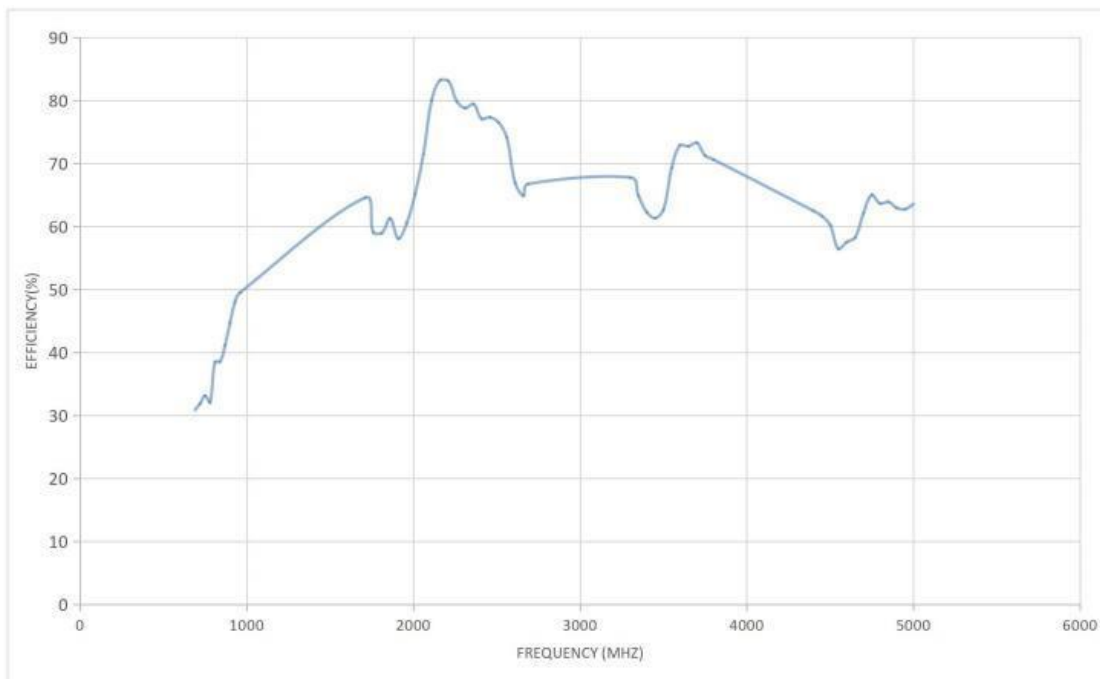
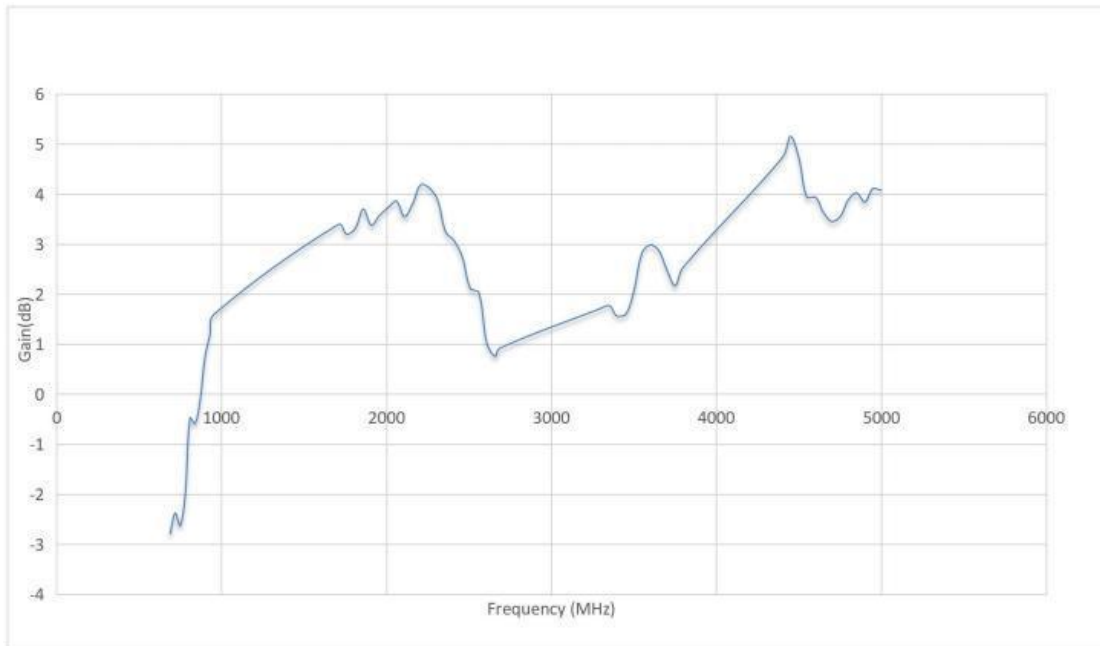
⊕ Return loss, VSWR& Smith chart



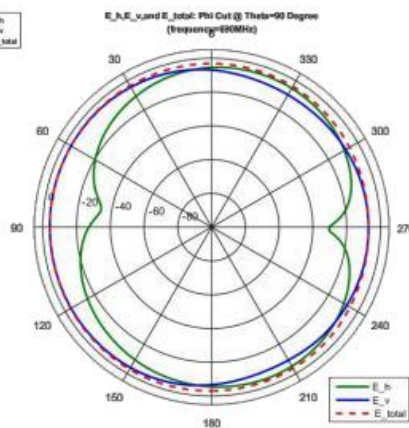
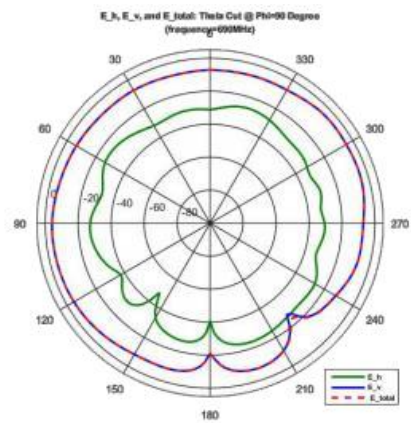
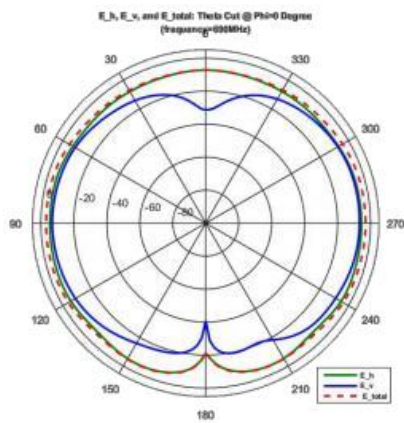
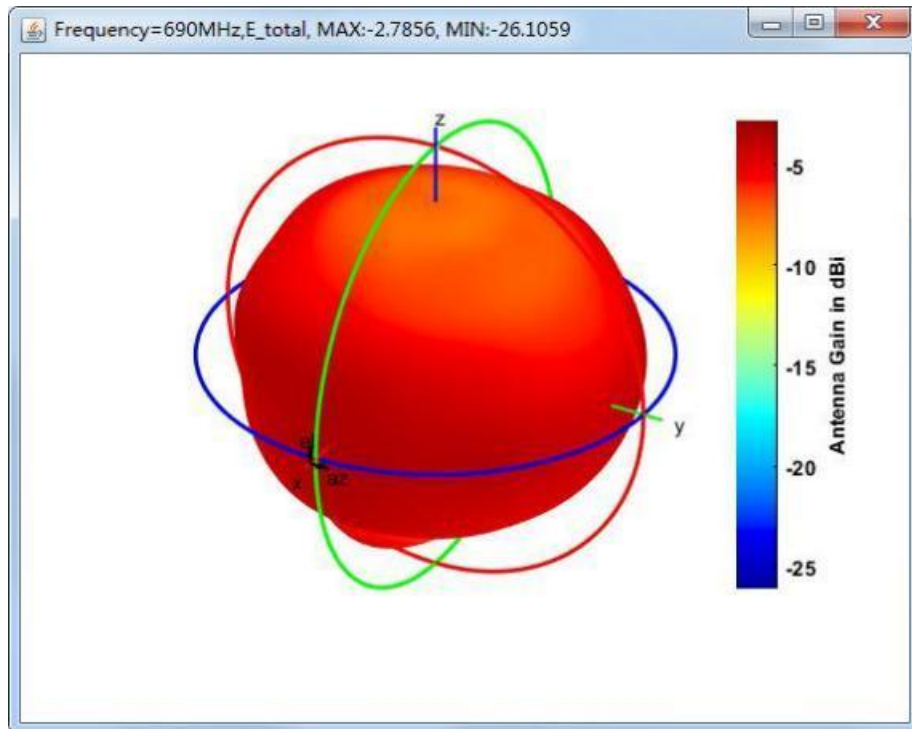
Frequency Test Data

Frequency (MHz)	Directivity (dB)	Gain (dB)	Efficiency (dB)	Efficiency (%)	Frequency (MHz)	Directivity (dB)	Gain (dB)	Efficiency (dB)	Efficiency (%)
690	2.3111	-2.7856	-5.0967	30.9261	3300	3.4027	1.7152	-1.6876	67.8022
720	2.5822	-2.3778	-4.96	31.9154	3350	3.6466	1.7698	-1.8768	64.9107
750	2.1703	-2.623	-4.7933	33.1639	3400	3.6138	1.559	-2.0549	62.3036
780	2.8988	-2.0379	-4.9367	32.0873	3450	3.7143	1.5922	-2.122	61.3474
810	3.665	-0.4765	-4.1415	38.5341	3500	4.0862	2.0567	-2.0294	62.6696
840	3.5511	-0.5859	-4.137	38.5746	3550	4.4169	2.8274	-1.5895	69.3509
870	3.7027	-0.1513	-3.8539	41.1724	3600	4.3522	2.982	-1.3703	72.9411
900	4.2123	0.7201	-3.4922	44.7489	3650	4.2602	2.8786	-1.3817	72.7502
930	4.3606	1.1788	-3.1818	48.0638	3700	3.8383	2.4902	-1.3481	73.3144
960	4.6613	1.6093	-3.0519	49.5228	3750	3.6406	2.1698	-1.4707	71.2733
1710	5.2915	3.3929	-1.8986	64.5862	3800	4.0481	2.5399	-1.5082	70.6607
1760	5.4841	3.1979	-2.2862	59.0712	4400	6.7719	4.7307	-2.0412	62.5004
1810	5.5964	3.303	-2.2934	58.9739	4450	7.2479	5.1508	-2.0971	61.7003
1860	5.8224	3.6965	-2.1259	61.2924	4500	6.9239	4.726	-2.1978	60.2859
1910	5.7361	3.3778	-2.3583	58.0997	4550	6.4145	3.9322	-2.4823	56.4637
1960	5.7577	3.578	-2.1796	60.5391	4600	6.3395	3.9377	-2.4018	57.5207
2010	5.5868	3.7275	-1.8593	65.1738	4650	5.978	3.6316	-2.3464	58.2584
2060	5.3153	3.8566	-1.4587	71.4703	4700	5.5194	3.4515	-2.068	62.1158
2110	4.5134	3.5477	-0.9657	80.0629	4750	5.4129	3.5448	-1.8681	65.0414
2160	4.6104	3.8132	-0.7972	83.2299	4800	5.846	3.8856	-1.9604	63.6739
2210	4.9961	4.1926	-0.8035	83.1103	4850	5.9635	4.0197	-1.9438	63.918
2260	5.0954	4.1214	-0.974	79.9093	4900	5.8492	3.8401	-2.009	62.9648
2310	4.9192	3.8861	-1.0331	78.8297	4950	6.1307	4.1083	-2.0225	62.7704
2360	4.2359	3.2376	-0.9983	79.464	5000	6.0438	4.0763	-1.9675	63.5691
2410	4.2027	3.0733	-1.1294	77.1017					
2460	3.8617	2.7467	-1.1151	77.3558					
2510	3.2705	2.11	-1.1605	76.5516					
2560	3.333	2.035	-1.2981	74.164					
2610	2.7483	1.0081	-1.7402	66.9846					
2660	2.6356	0.7578	-1.8778	64.8958					
2690	2.6774	0.9238	-1.7536	66.7788					

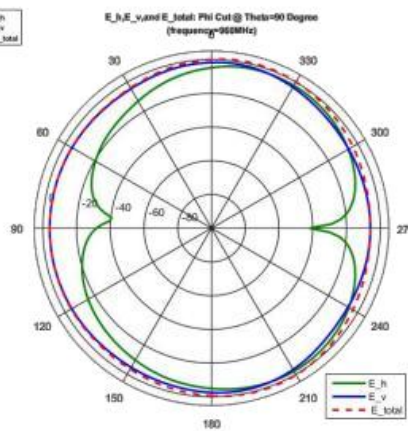
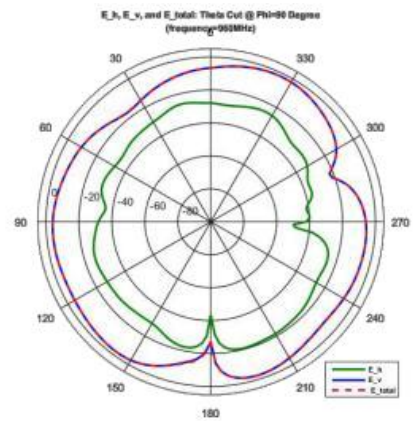
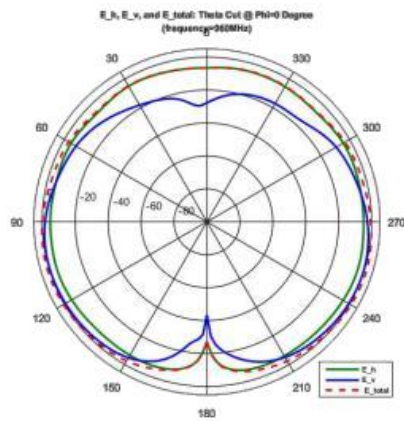
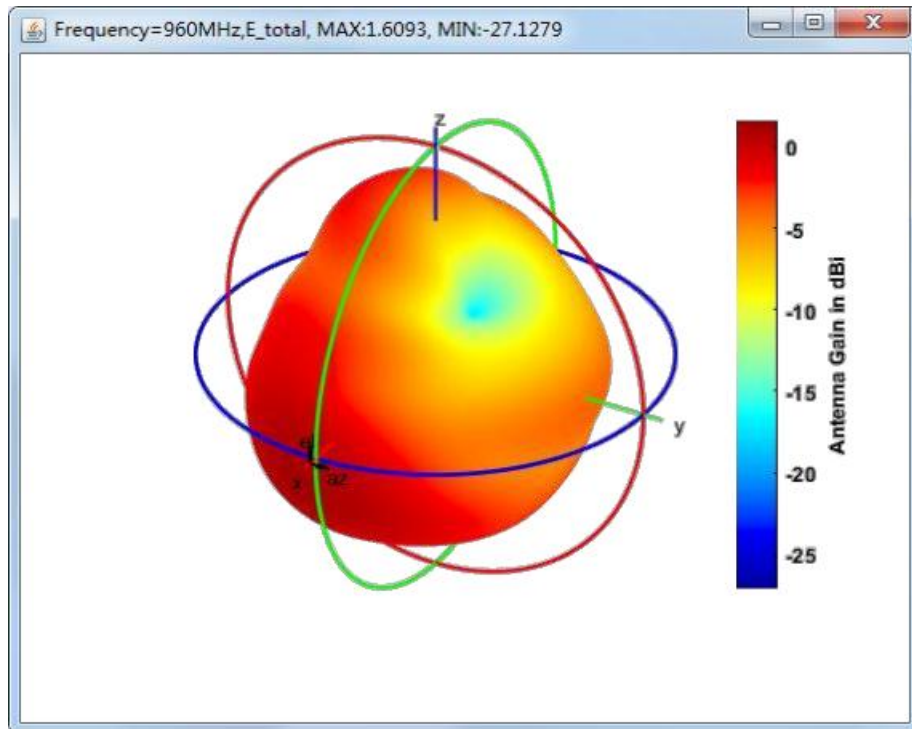
Gain(dB)&Efficiency(%)



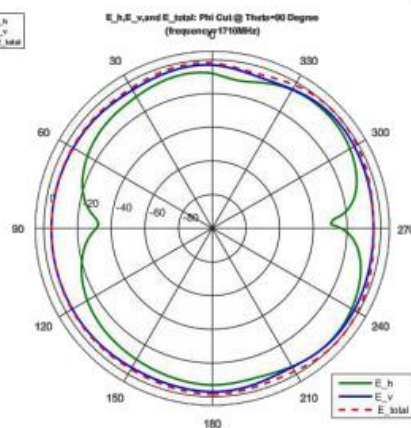
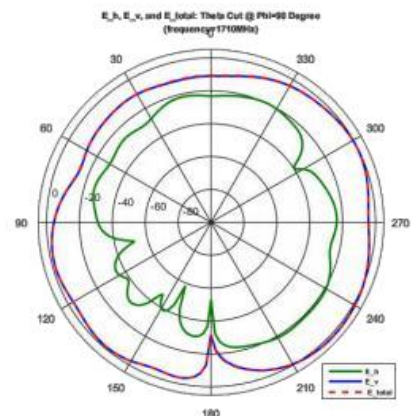
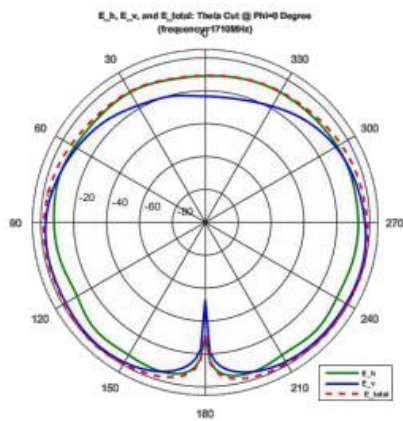
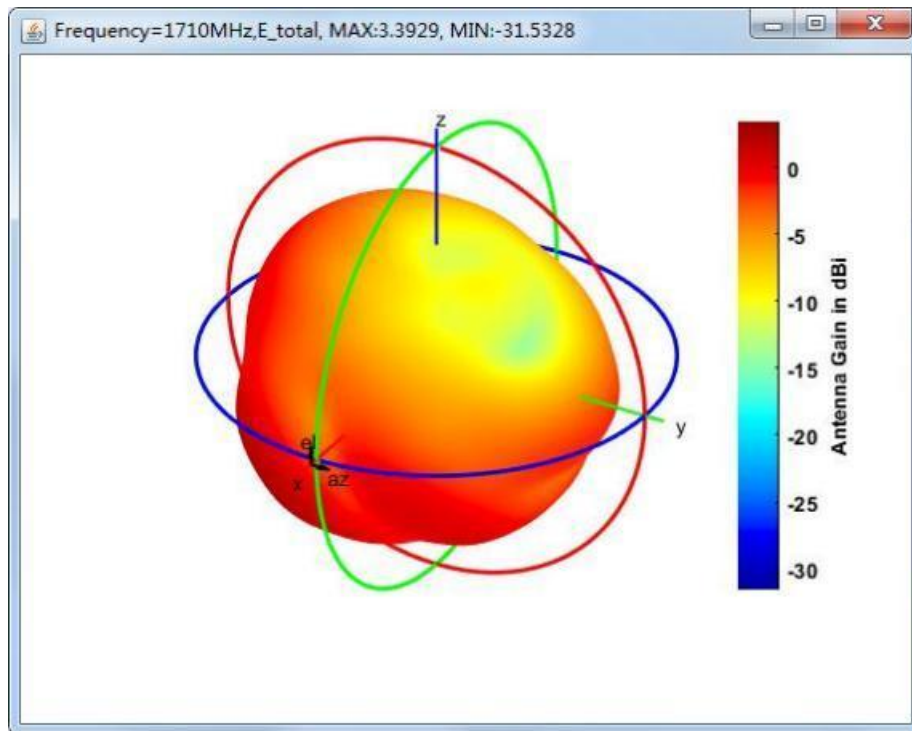
690MHz



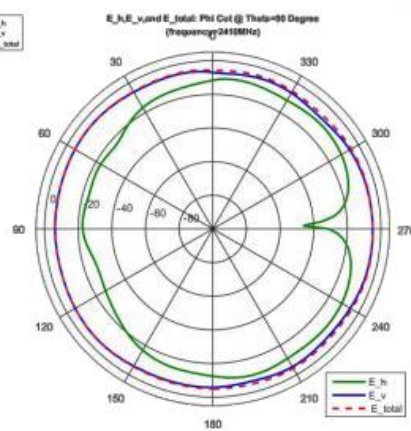
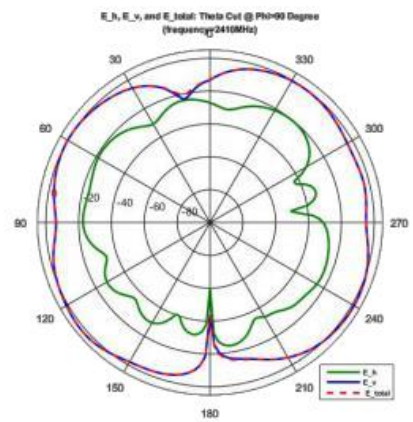
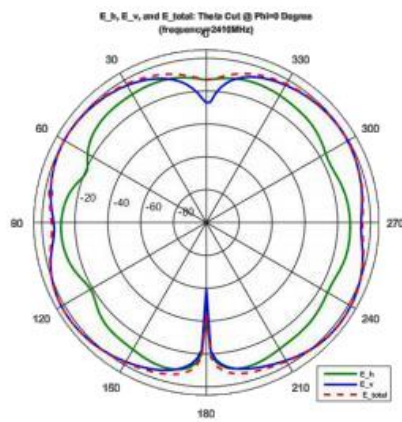
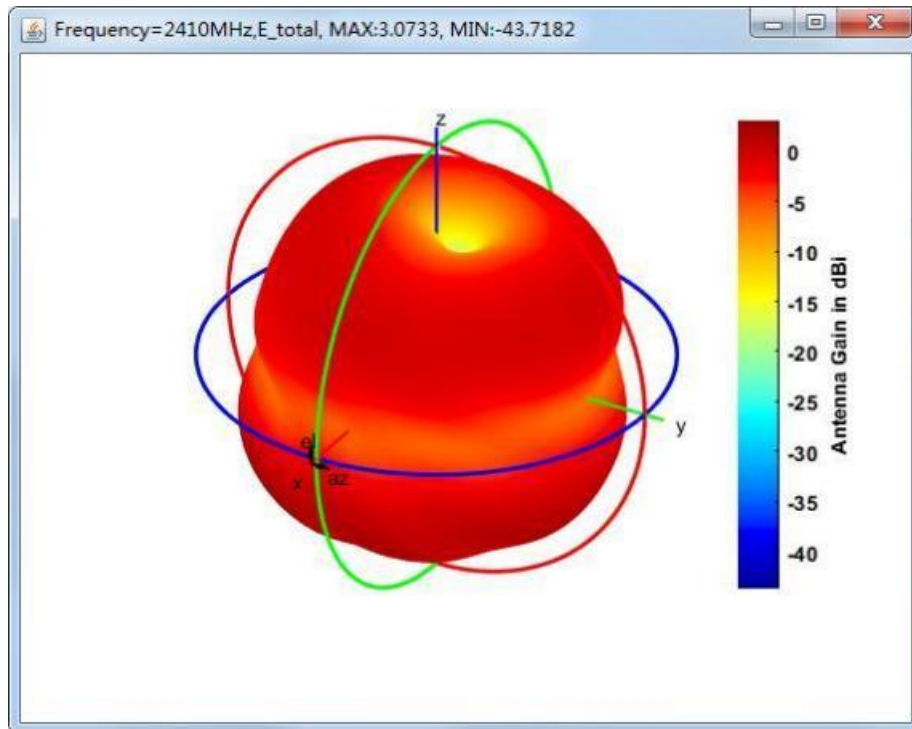
960MHz



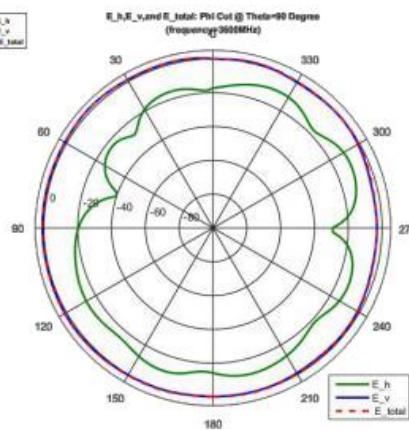
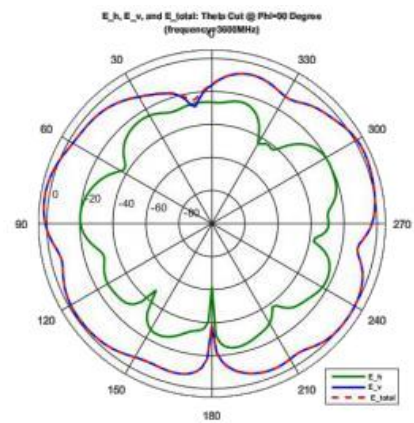
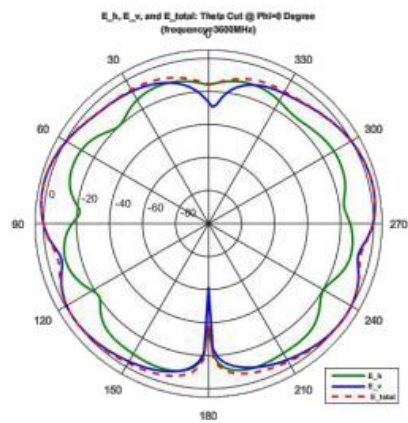
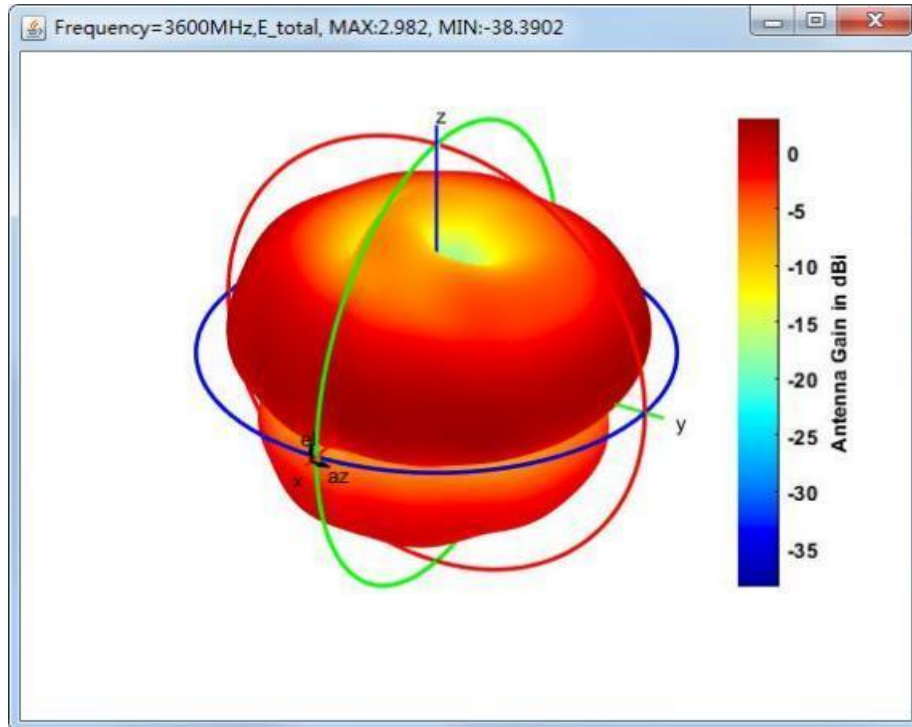
1710MHz



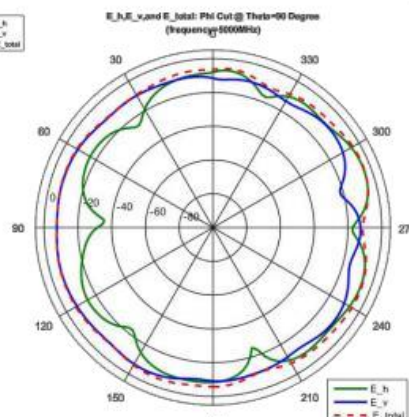
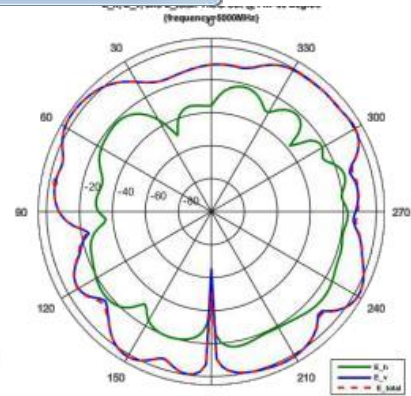
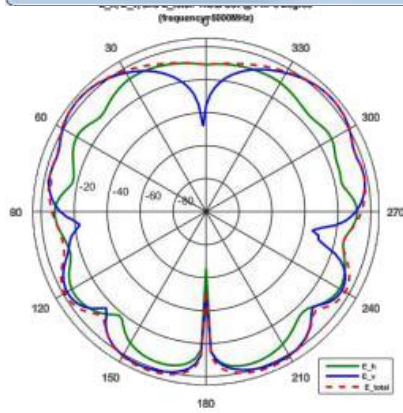
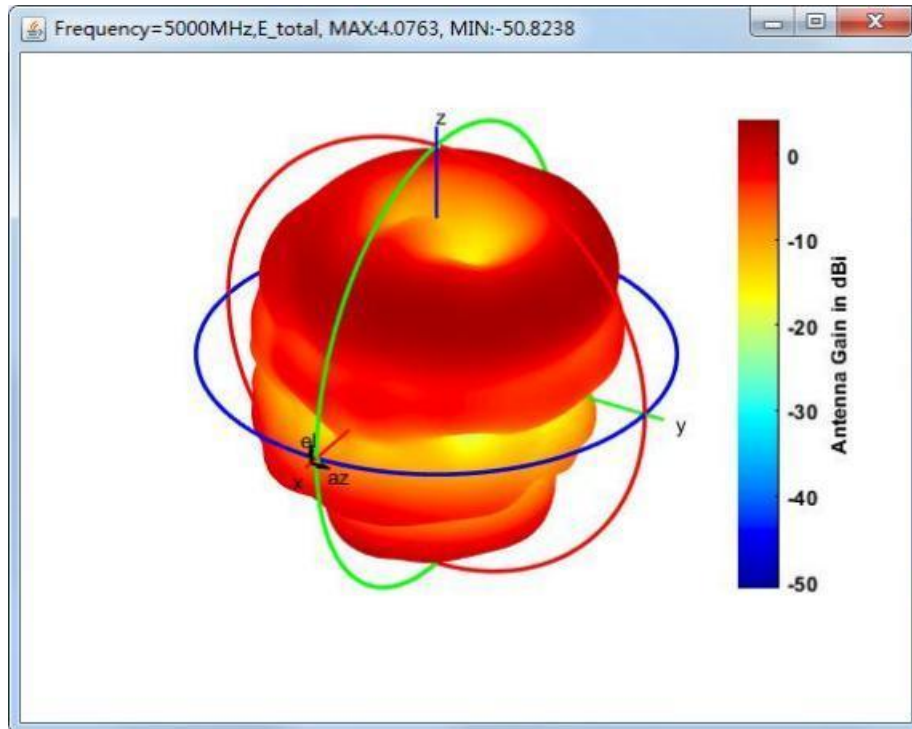
2410MHz



3600MHz



5000MHz



Dimension

