

品名：**GH6021-DIV-ANT-V1.0**

History List

[illegible]

GH6021-DIV-ANT-V1.0 Specification

1. Explanation of part number :

GH6021 – **DIV-ANT** – **V1.0**

(1) (2) (3)

(1) Model Name : GH6021

(2) Frequency : 600-960Mhz, 1710-2170MHz, 2300-2690MHz

(3) Suffix :V1.0

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
DIV	600-960Mhz, 1710-2170MHz, 2300-2400MHz, 2500-2690MHz

2-2. Impedance

50 ohm nominal

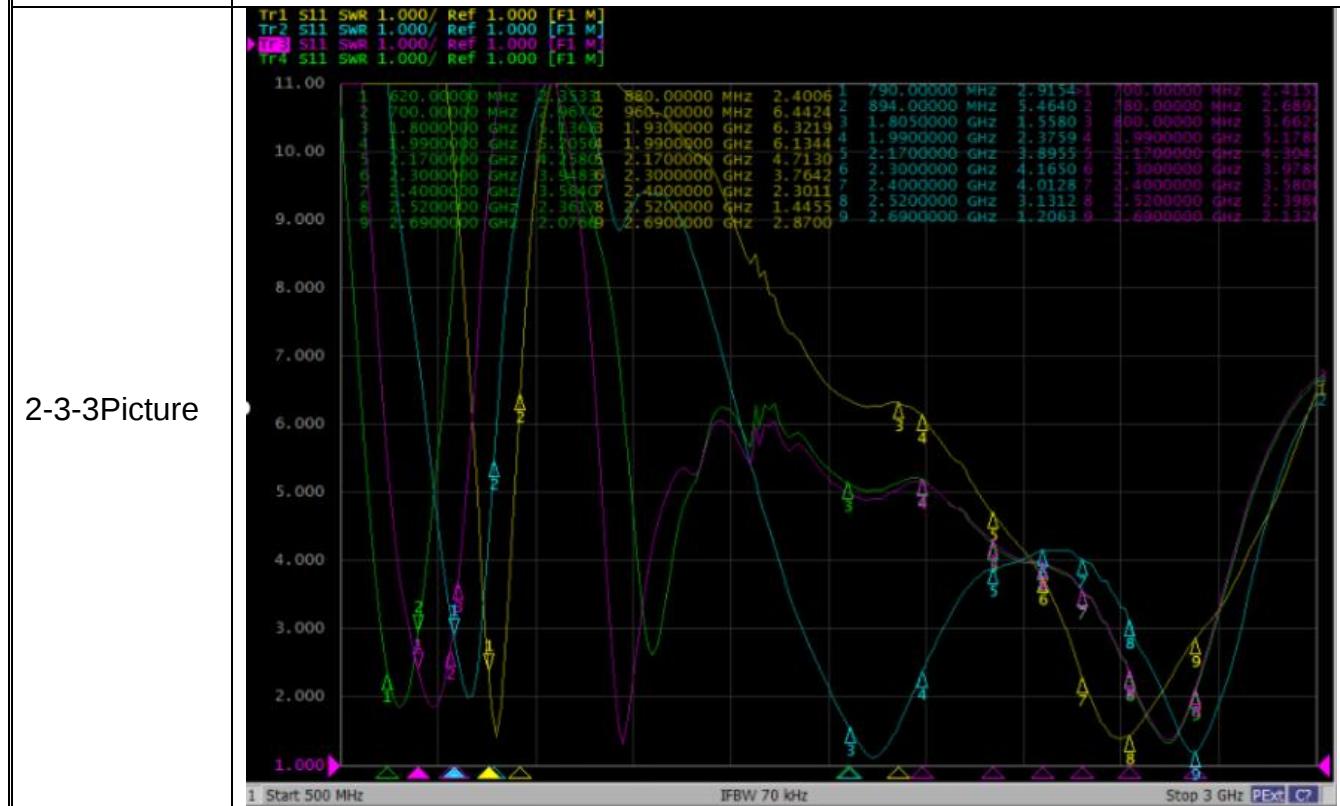
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DESIGNED BY : 苏汉鹏	APPROVED BY : 王伟		
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2-3. VSWR ,Efficiency ,Matching and Active Data :

2-3.1 VSWR:

Frequency Band	880	960	1710	2170	2300	2690
2-3-1. Typical Value:	≤ 2.5	≤ 6	≤ 3	≤ 4.0	≤ 3.7	≤ 3

2-3-2Measuring Method	1. A 50Ω coaxial cable is connected to the fpcb antenna. Then this cable is connected to a network analyzer to measure the VSWR. 2. Keeping this jig away from metal at least 20 cm.
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ANGLES=±

HOLEDIA=±

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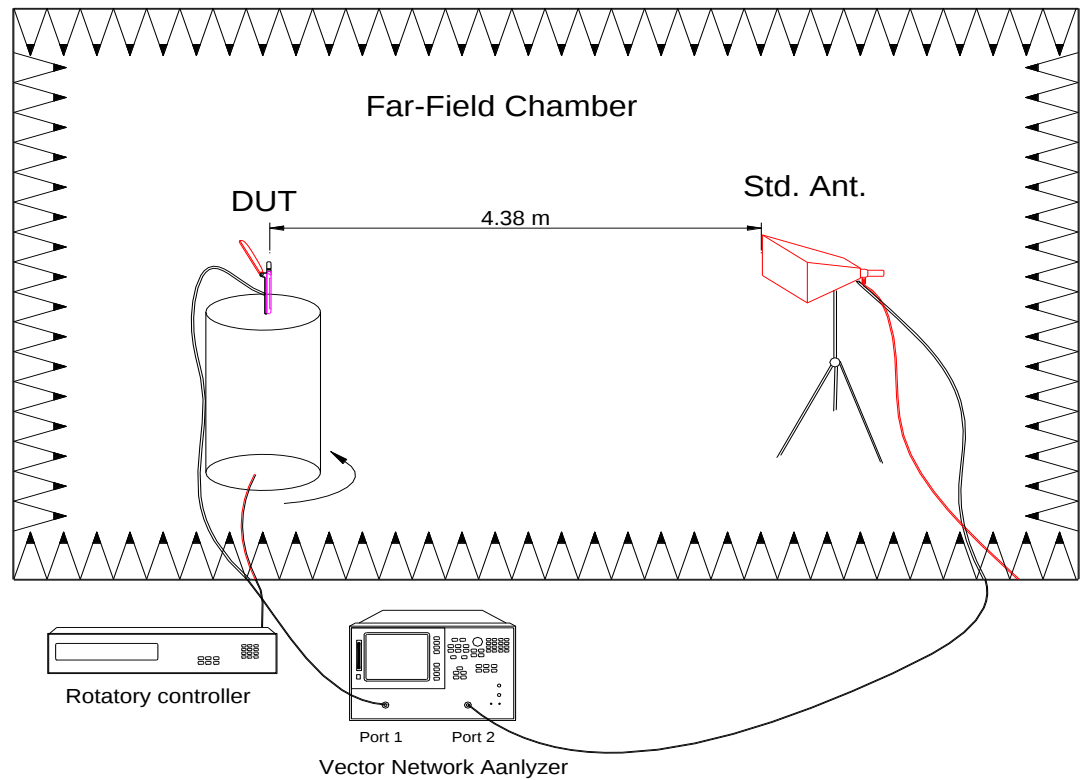
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2-4. Measure and Chamber

2-4-1 Measure method

- 1. Using a low loss coaxial cable to link a standard handset jig
- 2. Fixed this handset jig on chamber's rotator plane
- 3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
- 4. Using another standard gain horn antenna to calibrated those data

2-4-2 Chamber definition



- 1. An anechoic chamber (8mx4mx3.5m) which satisfied far-field condition was applied to avoid multi-path effect
- 2. The quite room region is 40cmx40cmx40cm at the center of rotator
- 3. The distance between DUT and standard antenna is 4.38 m
- 4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

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2-4-3 Antenna Efficiency

	RF1			RF2			RF3			RF4		
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
600										-5.09	-10.01	9.97
610										-4.5	-9.36	11.6
620										-3.91	-8.73	13.4
630										-3.3	-7.97	15.98
640										-2.77	-7.43	18.07
650										-2.2	-7.06	19.67
660										-1.68	-6.98	20.03
670										-1.68	-7.11	19.43
680										-1.8	-7.1	19.51
690										-2.8	-7.64	17.23
700							-2.35	-7.17	19.21			
710							-2.33	-6.91	20.37			
720							-2.15	-6.67	21.54			
730							-1.06	-6.31	23.39			
740							-0.36	-6.03	24.92			
750							0.03	-5.66	27.14			
760							-0.3	-5.64	27.29			
770							-0.35	-5.51	28.11			
780							-0.69	-5.89	25.73			
790							-1.4	-6.43	22.74			
800							-2.23	-7.07	19.61			
810												
820				-1.17	-5.86	25.93						
830				-1.07	-5.74	26.64						
840				-1.07	-5.67	27.07						
850				-0.96	-5.94	25.44						
860				-1.38	-6.54	22.21						
870				-1.96	-7.11	19.44						
880	-3.25	-8.44	14.33	-2.77	-7.8	16.59						
890	-2.48	-7.69	17.02	-3.43	-8.51	14.1						
900	-1.74	-6.99	20.02	-4.36	-9.24	11.92						
910	-1.14	-6.27	23.6									
920	-0.8	-5.9	25.68									
930	-1.45	-6.36	23.14									
940	-2.29	-7.17	19.19									
950	-3.16	-8.04	15.69									

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ANGLES=±

HOLEDIA=±

SCALE :

UNIT : mm

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960	-4.17	-8.99	12.63									
1800							-2.42	-6.45	22.64			
1810							-1.81	-5.86	25.96			
1820							-1.17	-5.25	29.89			
1830							-0.65	-4.87	32.58			
1840							-0.78	-4.73	33.63			
1850							-0.46	-4.36	36.67			
1860							-0.37	-4.21	37.97			
1870							-0.3	-4.14	38.56			
1880							-0.54	-4.2	37.98			
1890							-0.83	-4.42	36.1			
1900							-1.29	-4.63	34.46			
1910							-1.88	-4.83	32.87			
1920							-1.71	-4.77	33.36			
1930							-1.89	-5.09	30.98			
1940							-1.7	-5.35	29.18			
1950							-1.76	-5.5	28.15			
1960							-2.08	-5.85	26.02			
1970							-2.47	-6.12	24.43			
1980							-3.08	-6.41	22.88			
1990							-2.84	-6.37	23.05			
2000							-2.92	-6.59	21.91			
2010							-2.42	-6.45	22.64			
2020							-1.81	-5.86	25.96			
2030							-1.17	-5.25	29.89			
2040							-0.65	-4.87	32.58			
2050							-0.78	-4.73	33.63			
2060							-0.46	-4.36	36.67			
2070							-0.37	-4.21	37.97			
2080							-0.3	-4.14	38.56			
2090							-0.54	-4.2	37.98			
2100							-0.83	-4.42	36.1			
2110							-1.29	-4.63	34.46			
2120							-1.88	-4.83	32.87			
2130							-1.71	-4.77	33.36			
2140							-1.89	-5.09	30.98			
2150							-1.7	-5.35	29.18			
2160							-1.76	-5.5	28.15			
2170							-2.08	-5.85	26.02			
2300	-2.2	-6.51	22.32									
2310	-2.08	-6.47	22.55									
2320	-1.5	-6.24	23.74									

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ANGLES=±

HOLEDIA=±

SCALE :

UNIT : mm

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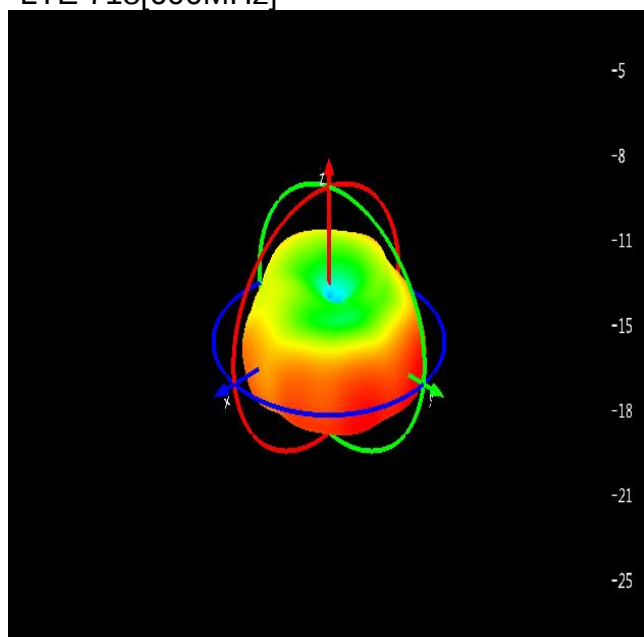
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2340	-1.62	-5.99	25.18									
2350	-1.26	-5.66	27.14									
2360	-2.2	-6.51	22.32									
2370	-2.08	-6.47	22.55									
2380	-1.5	-6.24	23.74									
2390	-1.49	-6.13	24.38									
2400	-1.62	-5.99	25.18									
2500	-0.48	-5.9	25.68									
2520	-0.61	-6.17	24.16									
2540	-1.46	-6.62	21.8									
2560	-2.23	-7.22	18.98									
2580	-2.64	-7.61	17.34									
2600	-2.64	-7.87	16.33									
2620	-2.65	-8.2	15.13									
2640	-2.82	-8.28	14.84									
2660	-3.06	-8.51	14.1									
2680	-2.85	-8.67	13.59									
2700	-3.1	-8.76	13.32									

3. Antenna 3D Radiation Pattern

-LTE 718[600MHz]



-LTE B12/13[700MHz]

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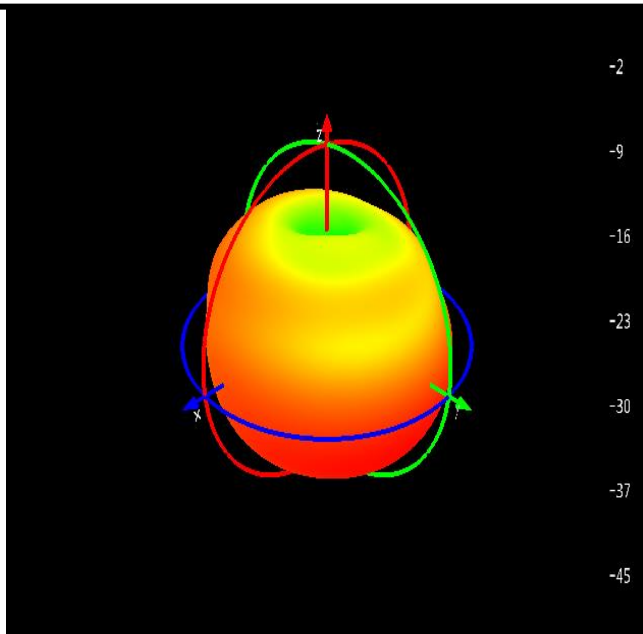
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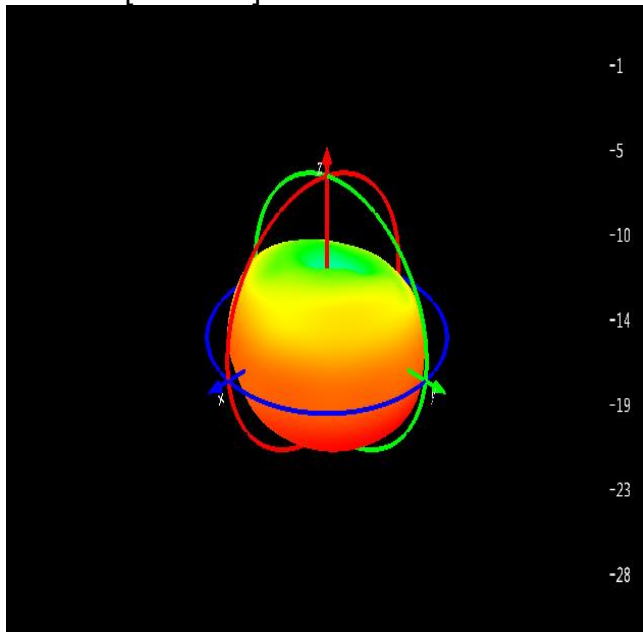
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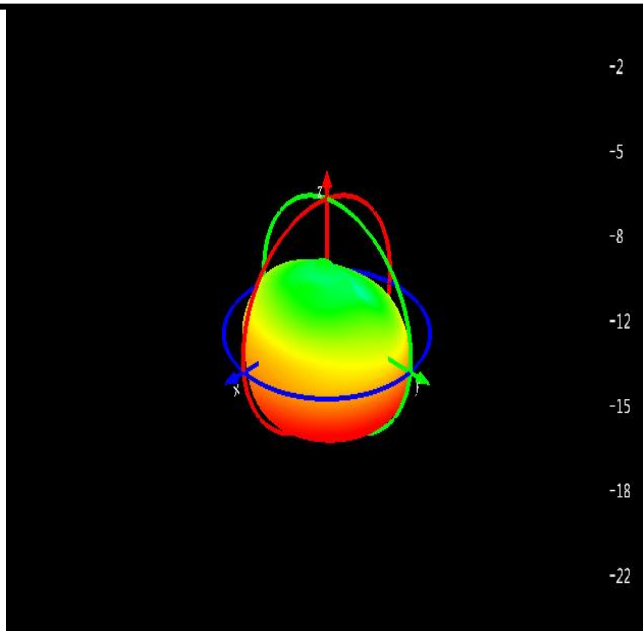


-LTE B5[824MHz]

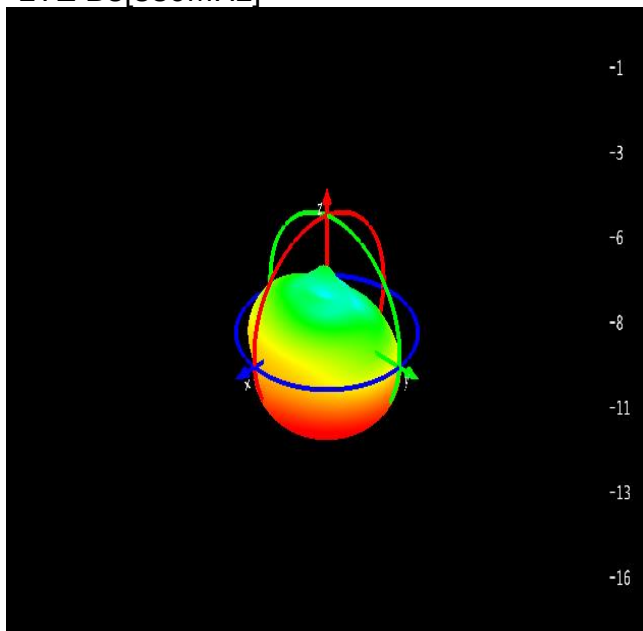


-LTE B5[894MHz]

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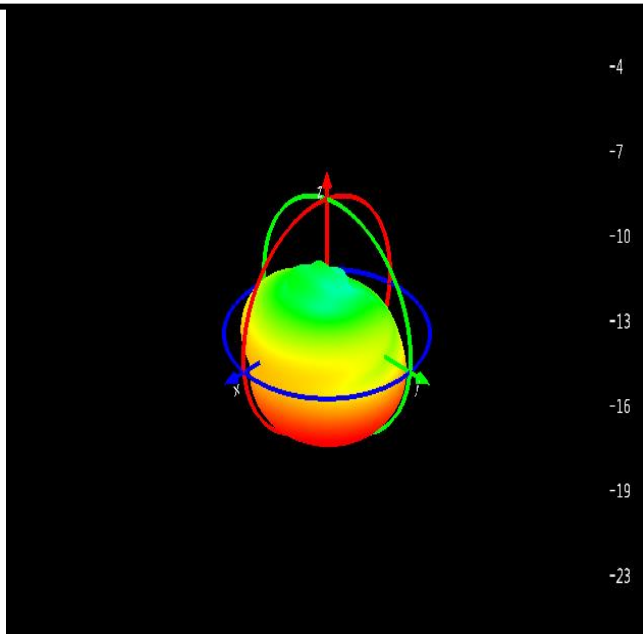


-LTE B8[880MHz]



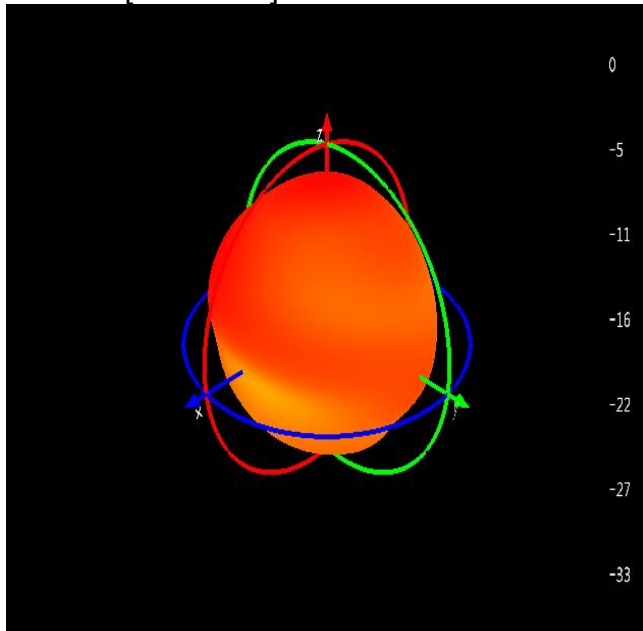
-LTE B8[960MHz]

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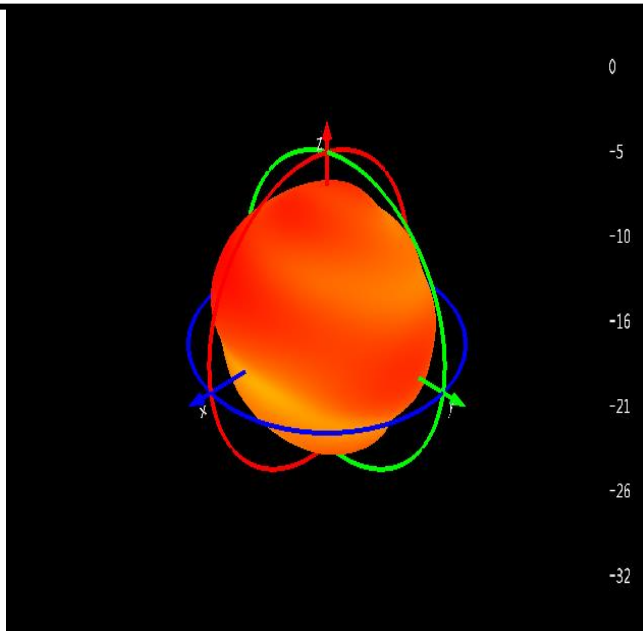
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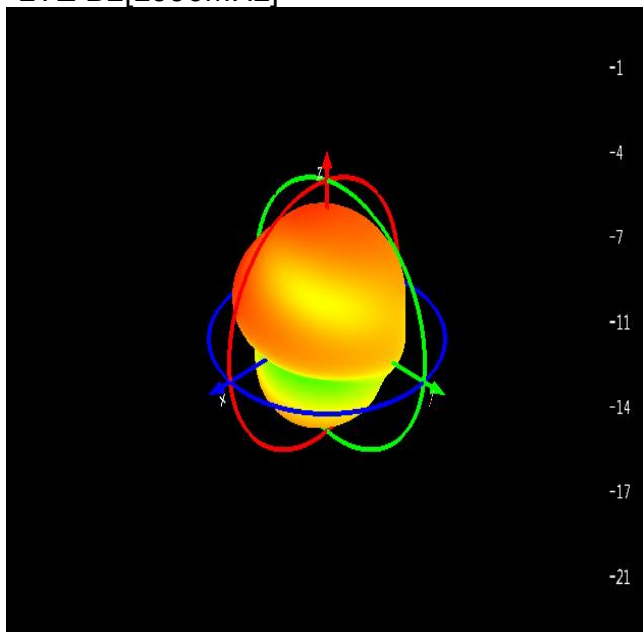
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-LTE B2[1850MHz]

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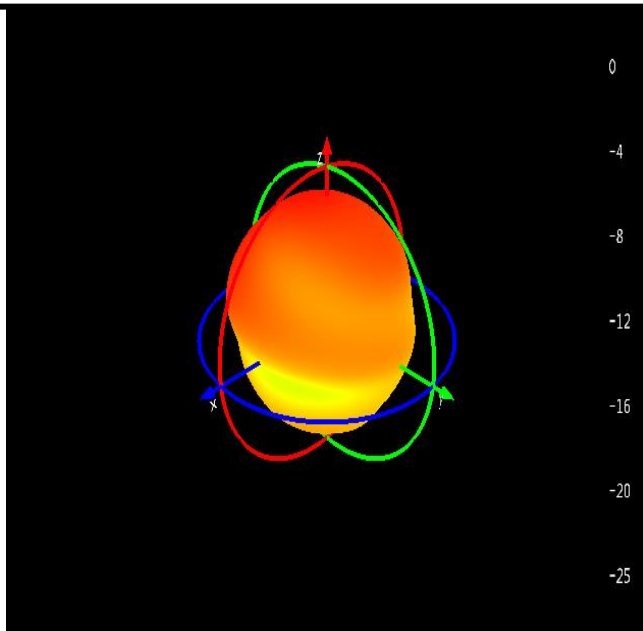


-LTE B2[1990MHz]

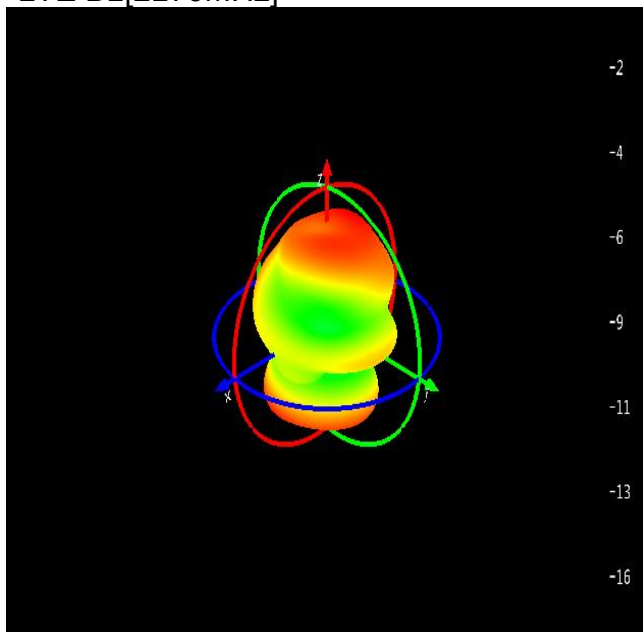


-LTE B1[1920MHz]

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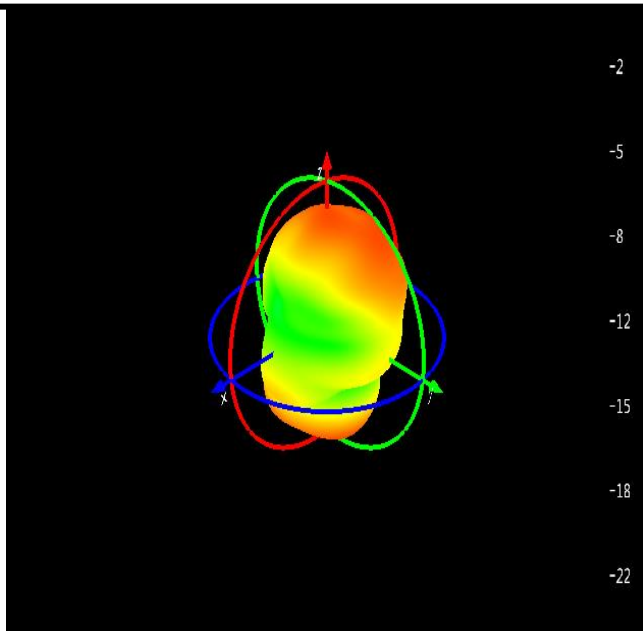


-LTE B1[2170MHz]

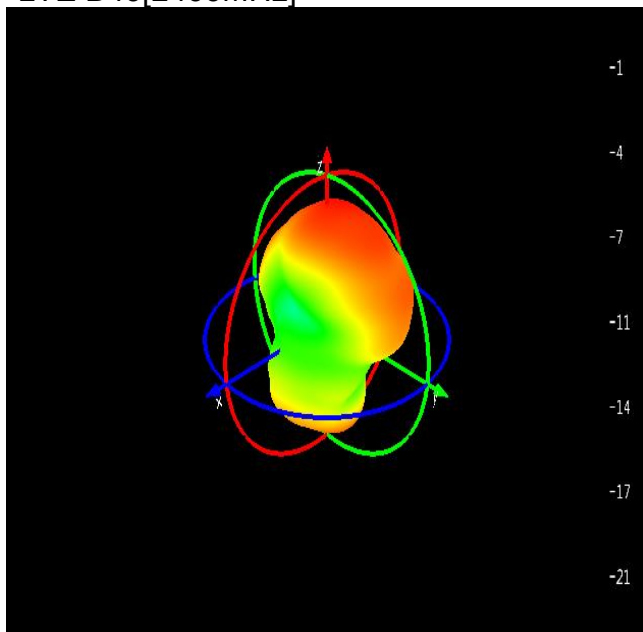


-LTE B40[2300MHz]

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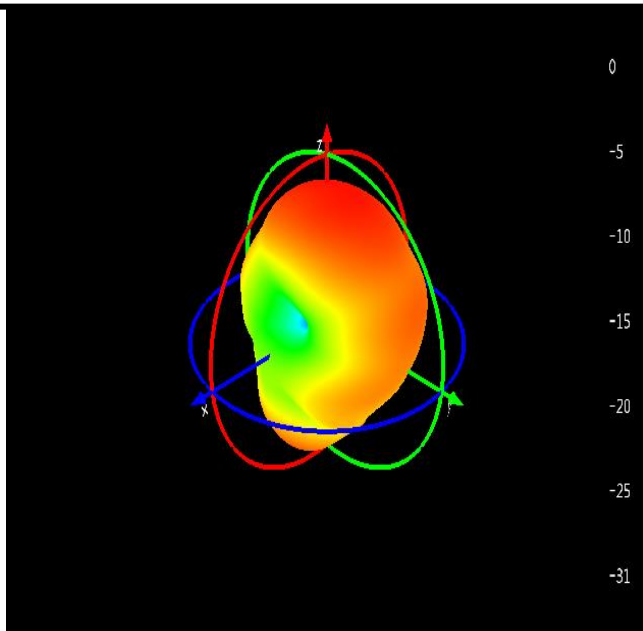


-LTE B40[2400MHz]

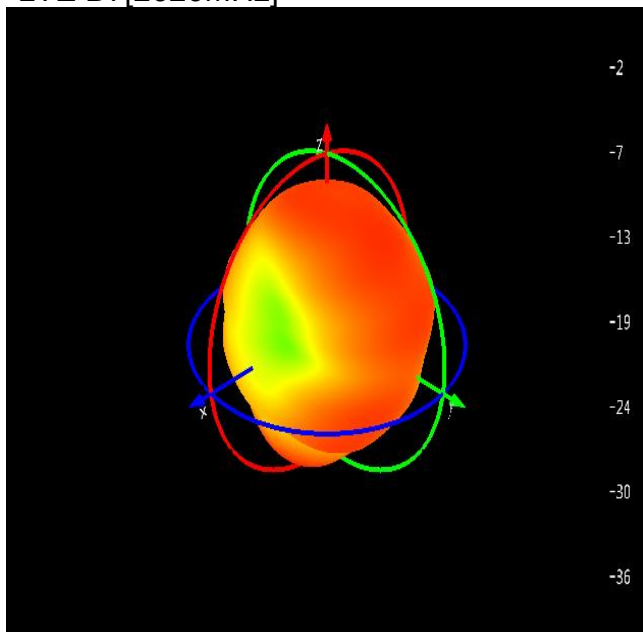


-LTE B7[2500MHz]

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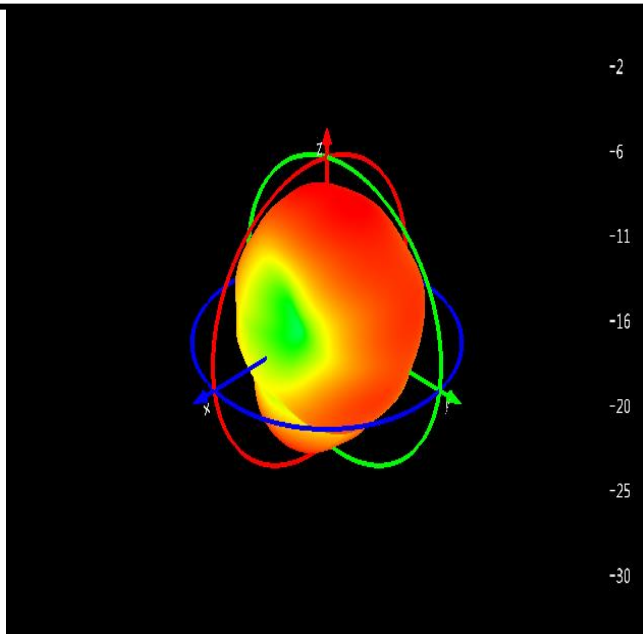


-LTE B7[2620MHz]

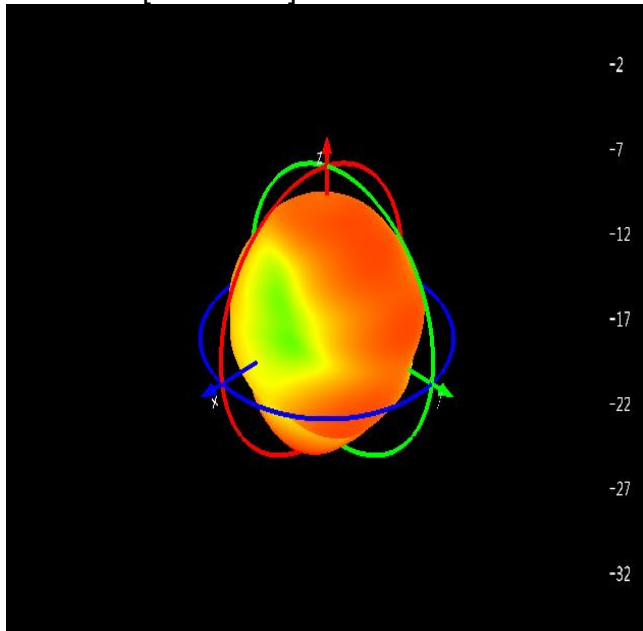


-LTE B41[2570MHz]

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-LTE B41[2650MHz]



4. Antenna Dimensions:

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