

品名：**GH6021-DIV-ANT-V1.0**

History List

[illegible]

GH6021-DIV-ANT-V1.0 **Specification**

1. Explanation of part number :

[illegible]

(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

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES = $\pm$

HOLEDIA=±



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SHENZHEN CITY KEXIN HUACHENG COMMUNICATION TECHNOLOGY CO.,LTD

SCALE :

UNIT : mm

DRAWN BY : 黄土勇

CHECKED BY: 肖坤雄

DESIGNED BY : 苏汉鹏

APPROVED BY: 王伟

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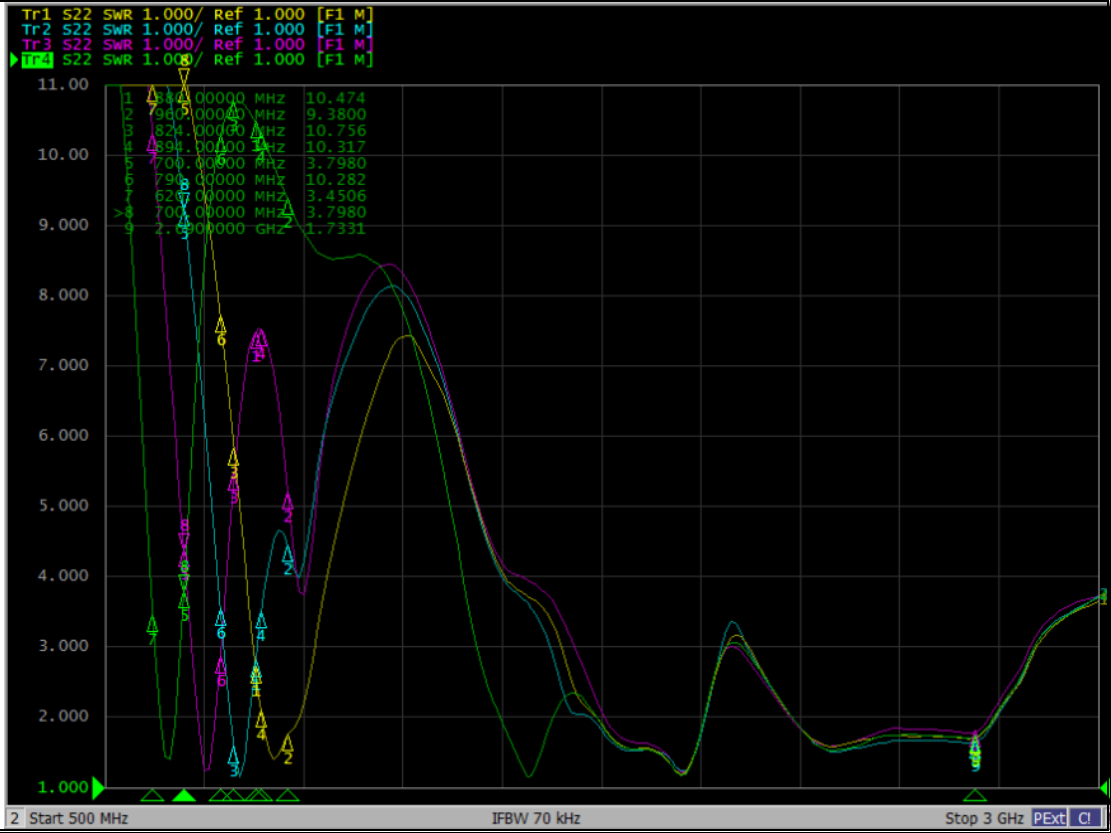
A0

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.					

2-3-3Picture



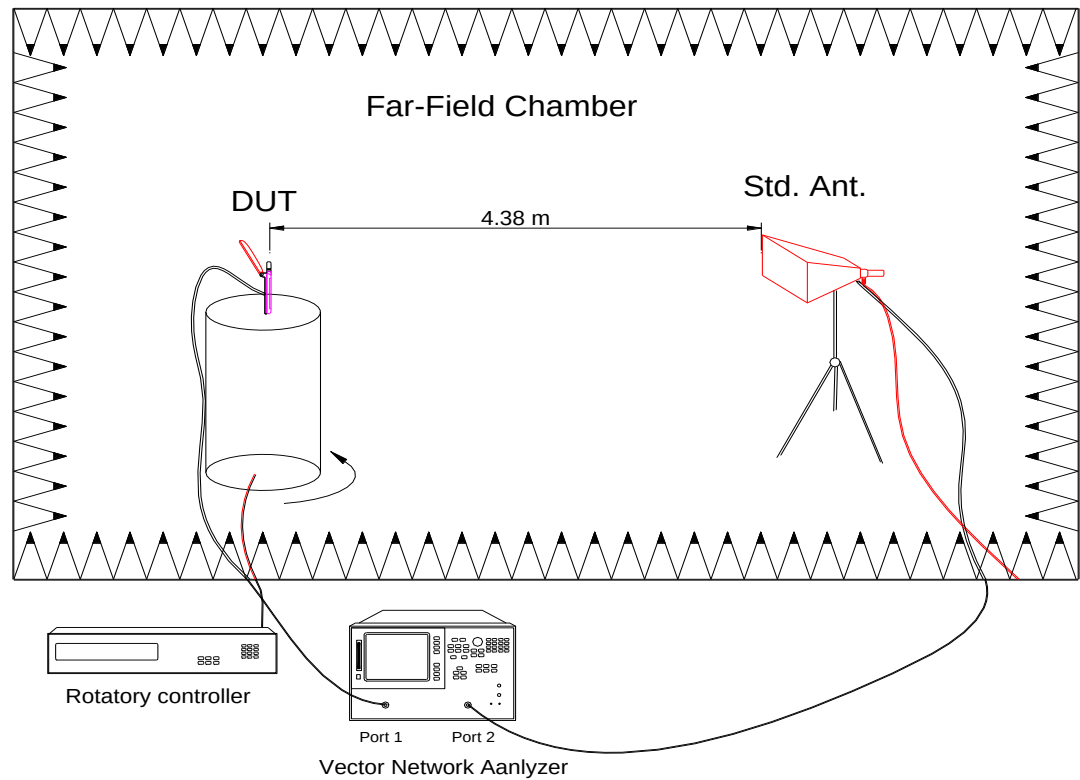
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2-4. Measure and Chamber

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												
610												
620										-6.34	-11	7.94
630										-5.78	-9.82	10.43
640										-4.63	-8.61	13.76
650										-3.2	-7.82	16.5
660										-2	-7.41	18.16
670										-1.97	-7.65	17.19
680										-3.01	-8.29	14.83
690										-4.14	-8.98	12.65
700							-5.53	-9.89	10.26	-5.69	-9.94	10.13
710							-4.63	-9.13	12.22			
720							-3.79	-8.44	14.32			
730							-2.67	-7.71	16.94			
740							-2.16	-7.22	18.96			
750							-1.76	-6.85	20.63			
760							-2.07	-6.99	19.98			
770							-2.35	-7.21	19.02			
780							-3	-7.86	16.37			
790							-4.07	-8.63	13.7			
800												
810												
820				-3.96	-8.14	15.34						
830				-3.58	-7.85	16.41						
840				-3.21	-7.65	17.17						
850				-3.19	-7.96	15.99						
860				-3.73	-8.48	14.19						
870				-4.79	-9.32	11.68						
880	-5.9	-10.06	9.87	-5.85	-10.18	9.6						
890	-5.4	-9.55	11.1	-6.6	-10.9	8.13						
900	-5.31	-9.52	11.16	-7.73	-11.94	6.39						
910	-4.67	-8.53	14.04									
920	-4.58	-8.49	14.16									
930	-4.63	-8.66	13.62									
940	-5	-9.1	12.3									
950	-5.22	-9.61	10.93									

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ANGLES=±

HOLEDIA=±

SCALE :

UNIT : mm

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960	-5.19	-9.88	10.27									
1700	-0.72	-5.01	31.52									
1720	-0.22	-4.66	34.2									
1740	0.23	-4.34	36.81									
1760	0.11	-4.21	37.97									
1780	-0.18	-4.15	38.5									
1800	0.32	-4.05	39.35									
1820	0.04	-4.02	39.65									
1840	0.42	-3.84	41.34									
1860	0.9	-3.9	40.78									
1880	0.88	-4.12	38.7									
1900	1.44	-3.89	40.87									
1920	1.62	-3.89	40.84									
1940	1.99	-4.06	39.31									
1960	1.41	-4.34	36.84									
1980	0.46	-4.63	34.43									
2000	-0.39	-5.24	29.95									
2020	-0.98	-5.87	25.9									
2040	-0.72	-6.09	24.63									
2060	-1.23	-6.5	22.41									
2080	-1.92	-6.62	21.78									
2100	-1.33	-6.11	24.52									
2120	-1.15	-5.8	26.32									
2140	-1.12	-5.24	29.89									
2160	-0.83	-4.95	32.02									
2180	-0.5	-4.51	35.43									
2200	-0.47	-4.27	37.44									
2220	-0.21	-4.11	38.85									
2240	0.49	-3.84	41.32									
2260	0.06	-3.63	43.4									
2280	0.25	-3.45	45.2									
2300	0.76	-3.4	45.67									
2320	0.96	-3.31	46.63									
2340	1.04	-3.14	48.58									
2360	0.96	-3.2	47.91									
2380	1.59	-3.24	47.41									
2400	1.81	-3.22	47.59									
2420	1.58	-3.32	46.54									
2440	1.75	-3.36	46.16									
2460	1.63	-3.36	46.1									
2480	1.98	-3.5	44.65									
2500	2.16	-3.75	42.17									

UNLESS OTHER SPECIFIED TOLERANCES ON :

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ANGLES=±

HOLEDIA=±

SCALE :

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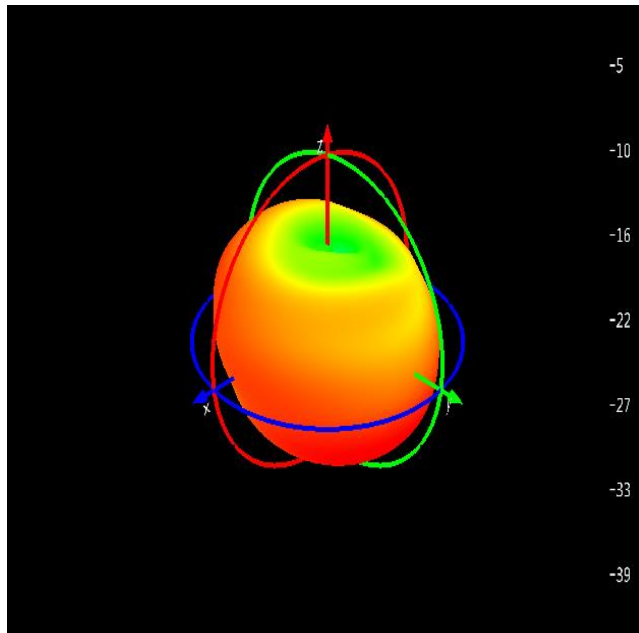
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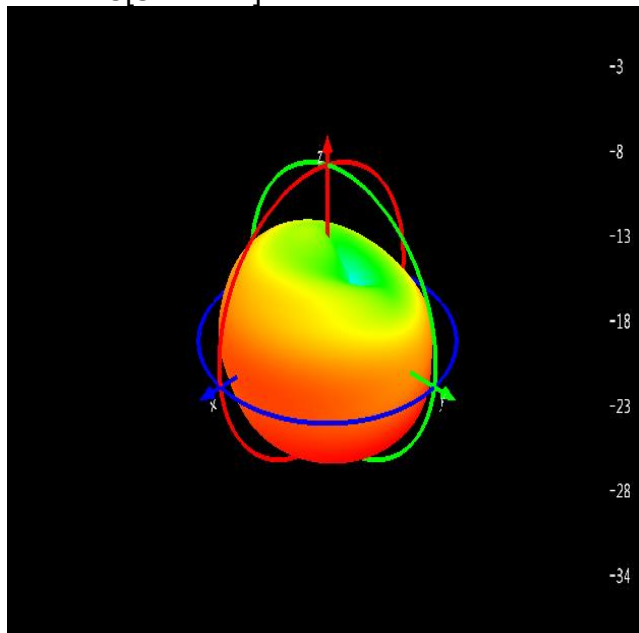
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-LTE B71[700MHz]

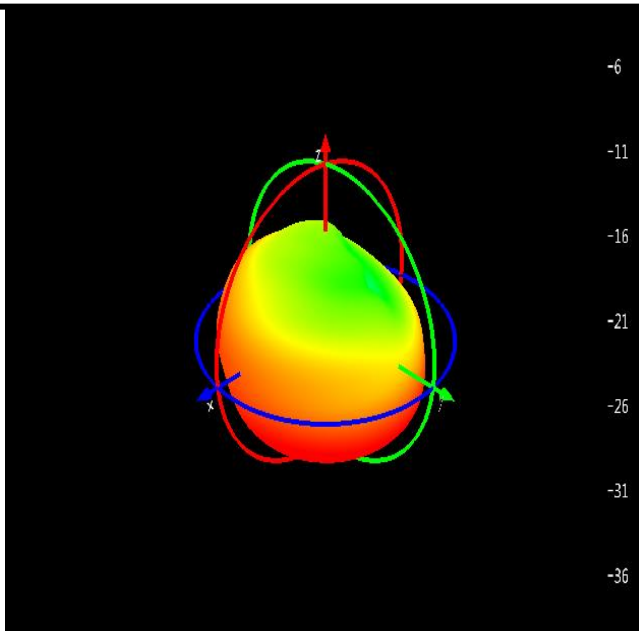


-LTE B5[824MHz]

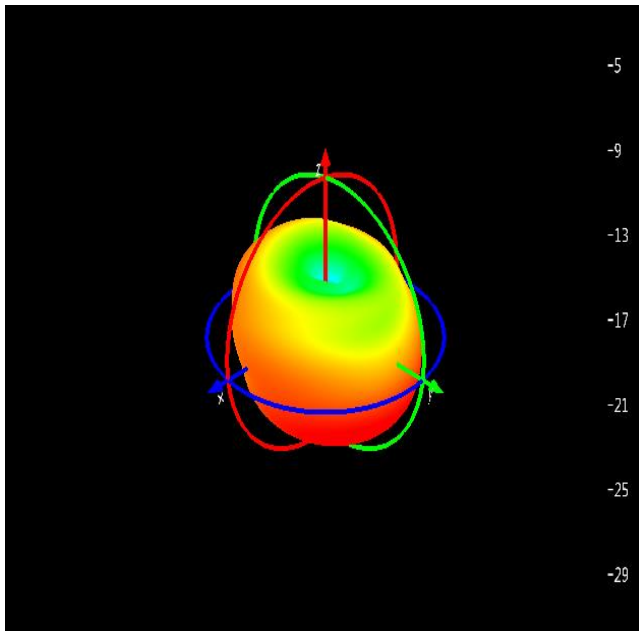


-LTE B5[894MHz]

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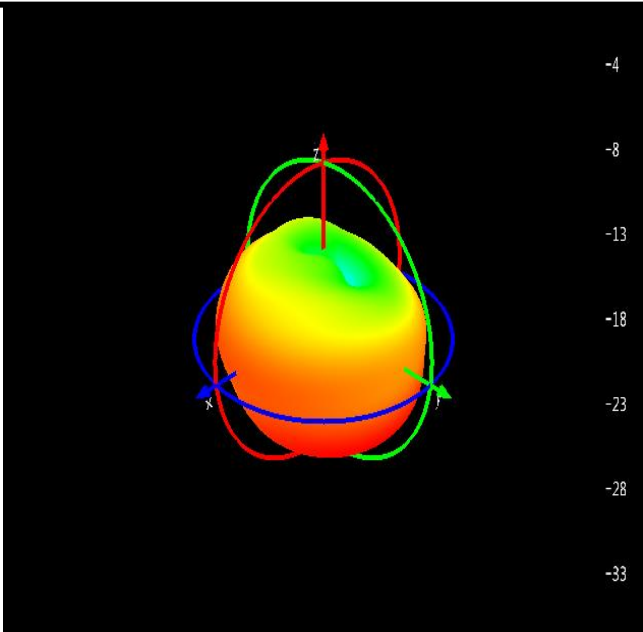


4. LTE B12-13[700MHz

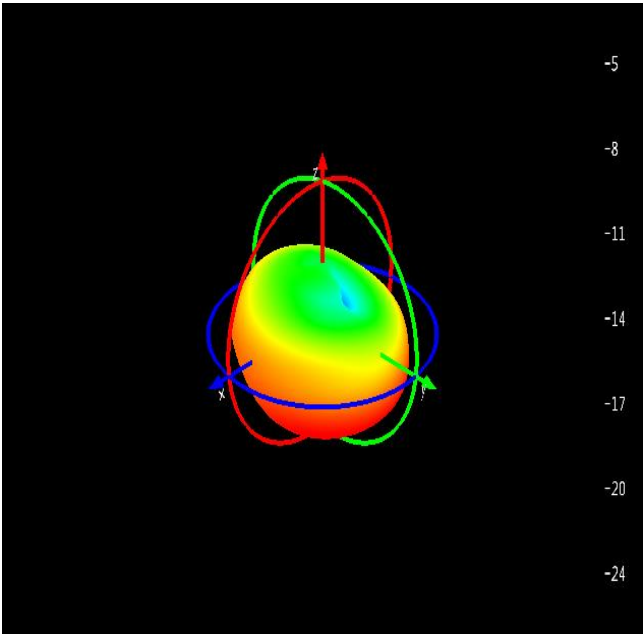


5. LTE B12-13[790MHz

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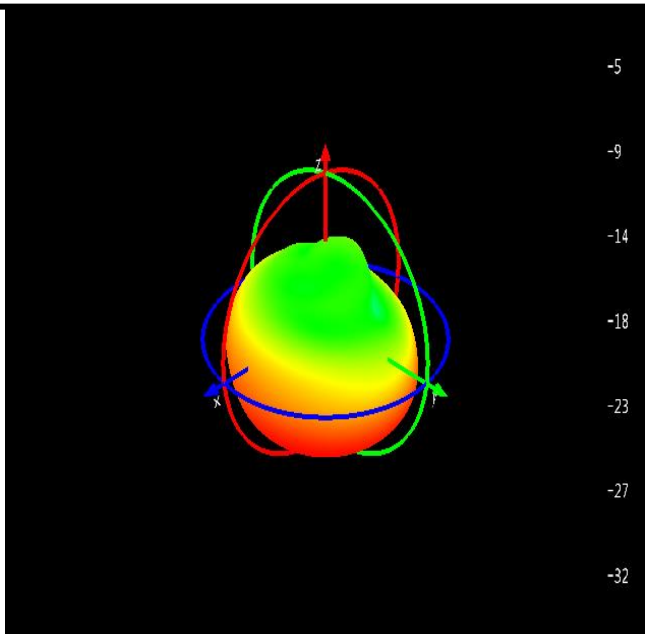


-LTE B8[880MHz]

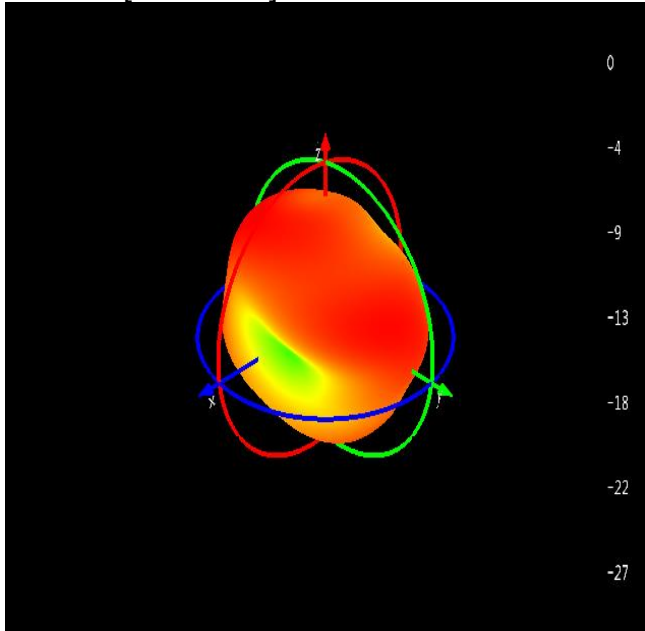


-LTE B8[960MHz]

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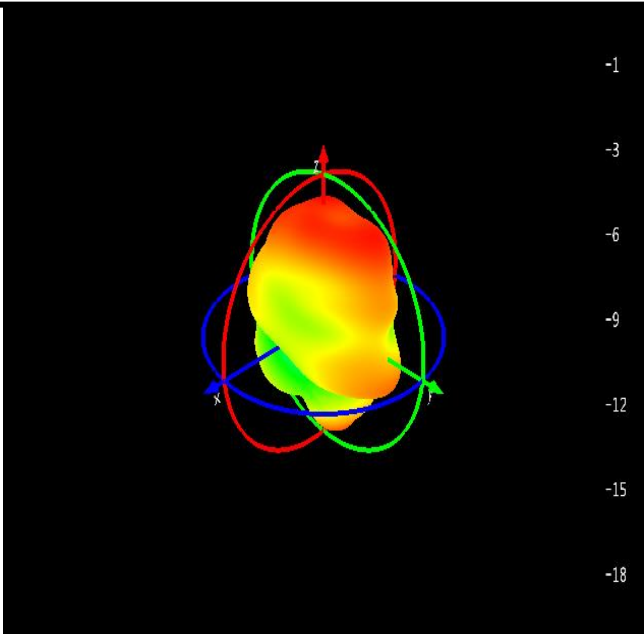


-LTE B4[1710MHz]

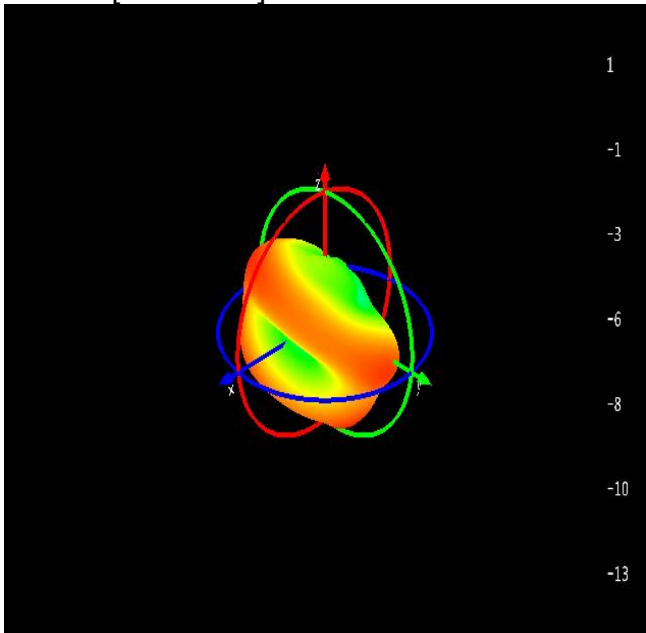


-LTE B4[2155MHz]

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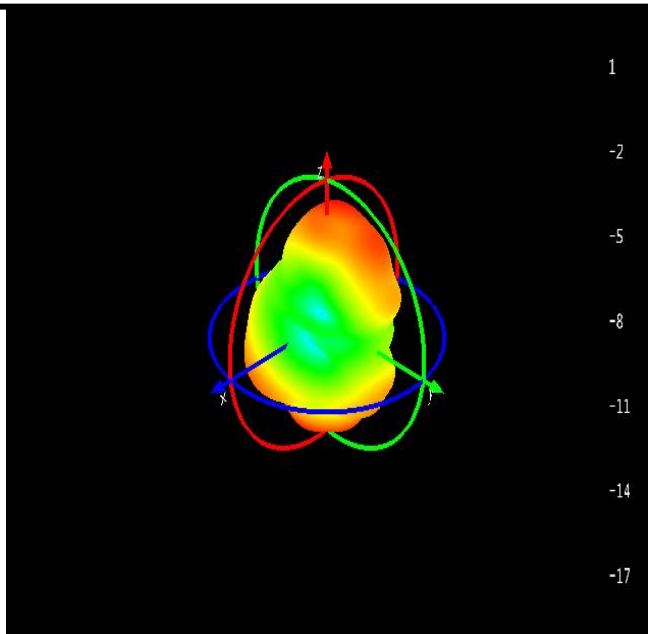


LTE B2[1850MHz]

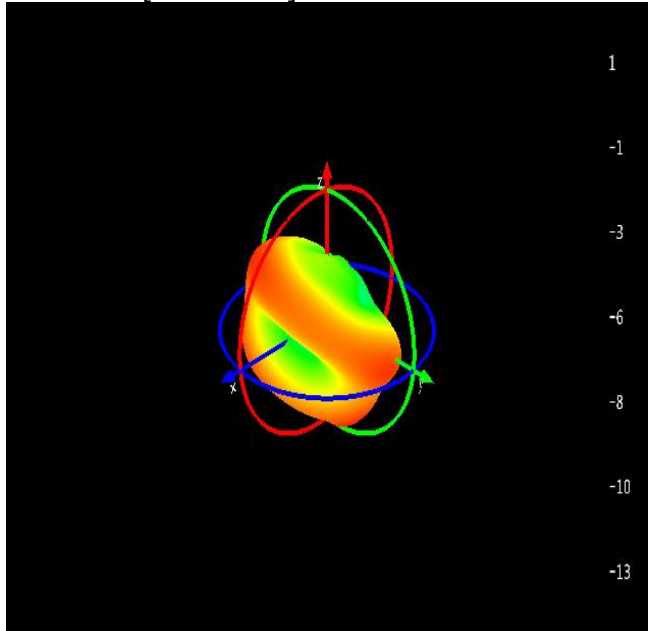


-LTE B2[1990MHz]

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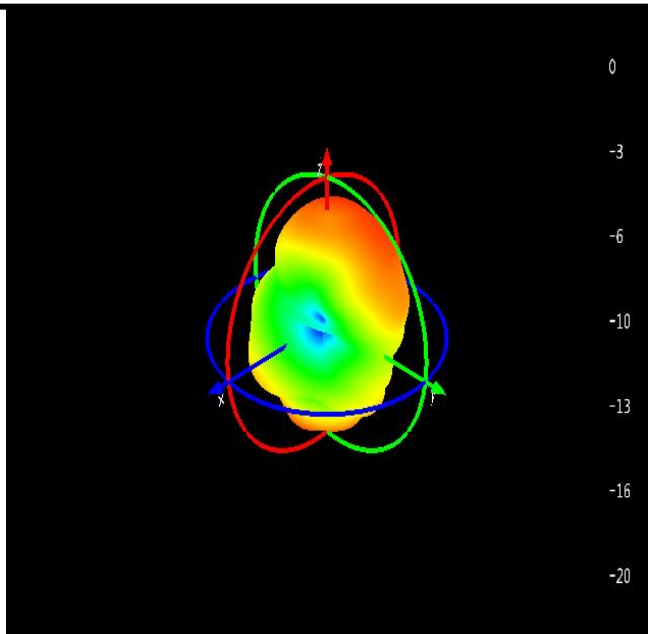


-LTE B25[1850MHz]

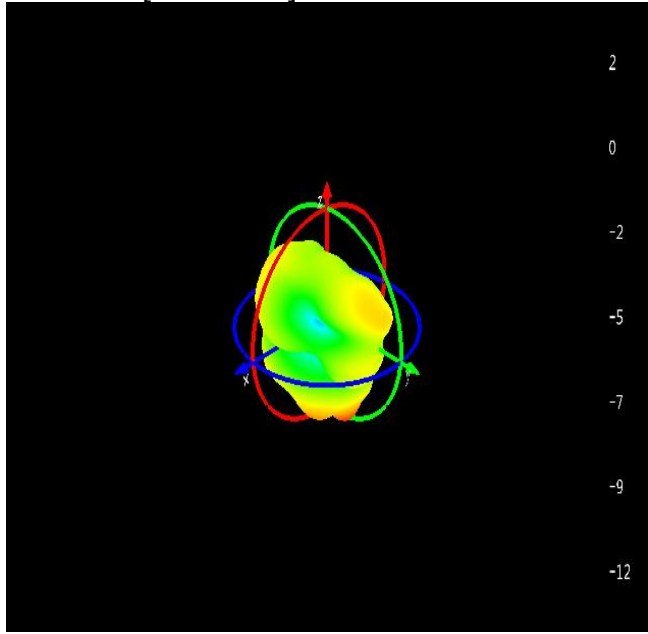


-LTE B25[2000MHz]

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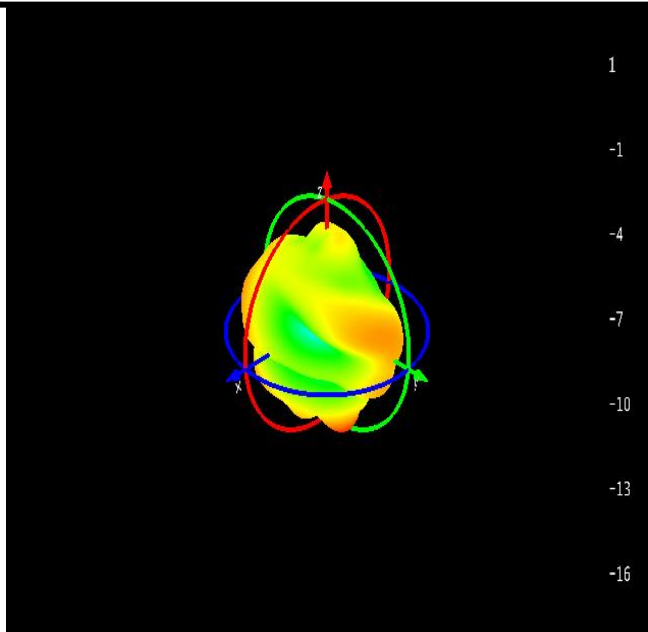


-LTE B41[2496MHz]



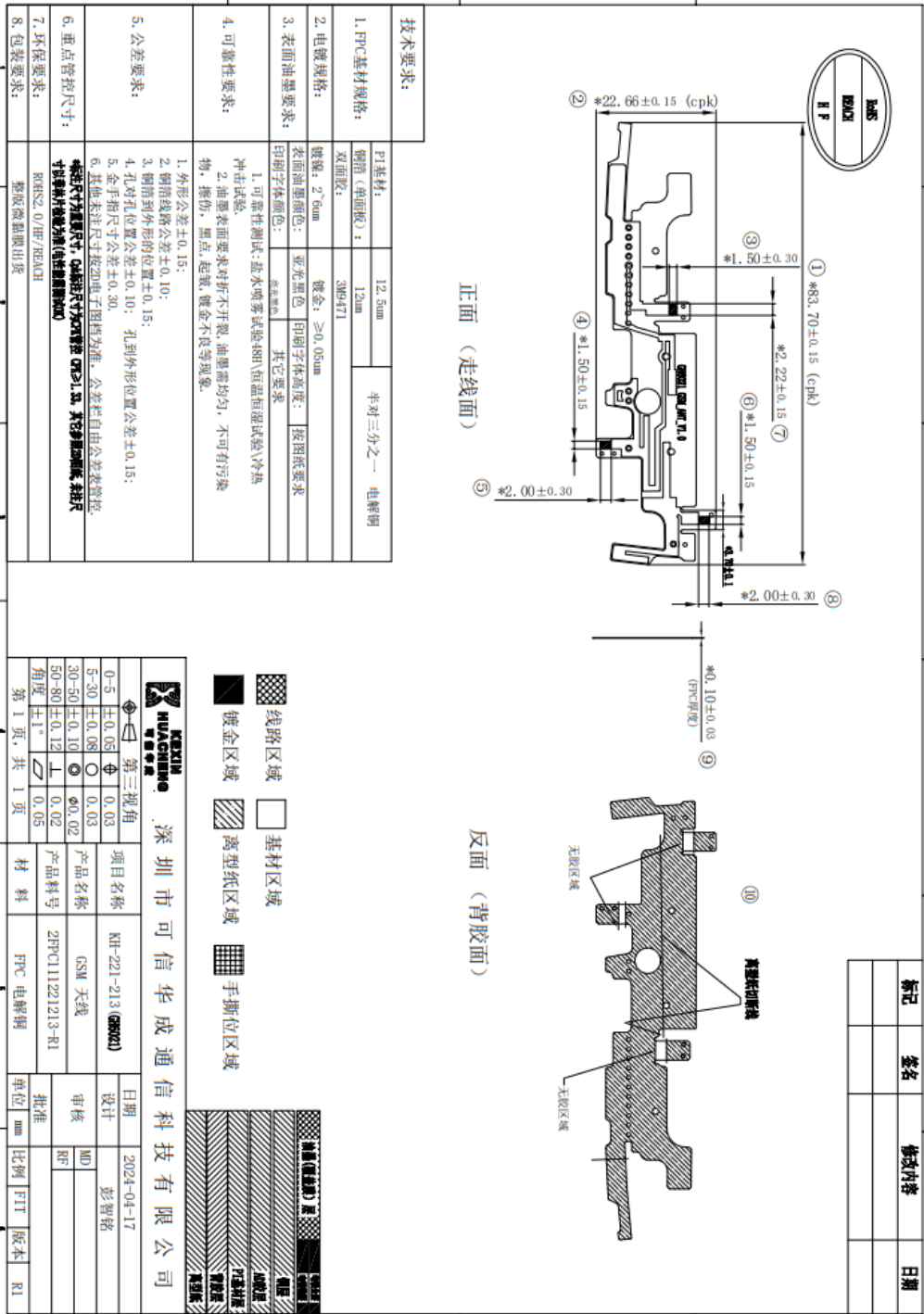
-LTE B41[2690MHz]

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6. Antenna Dimensions:

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UNLESS OTHER SPECIFIED TOLERANCES ON :

X= ± 2 X.X= ± 0.1 X.XX= ± 0.05

ANGLES= $\pm$

HOLEDIA= $\pm$

SCALE :

UNIT : mm

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