

品名：**GH6321-LTE-ANT-V2.0**

History List

[illegible]

GH6321-LTE-ANT-V2.0 **Specification**

1. Explanation of part number :

GH6321 - LTE-ANT - V2.0

(1) (2) (3)

(1) Model Name : GH6321

(2) Frequency : 699-960Mhz, 1710-2170MHz, 2300-2690MHz

(3) Suffix :V2.0

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
LTE	699-960Mhz, 1710-2170MHz, 2300-2400MHz, 2500-2690MHz

2-2. Impedance

50 ohm nominal

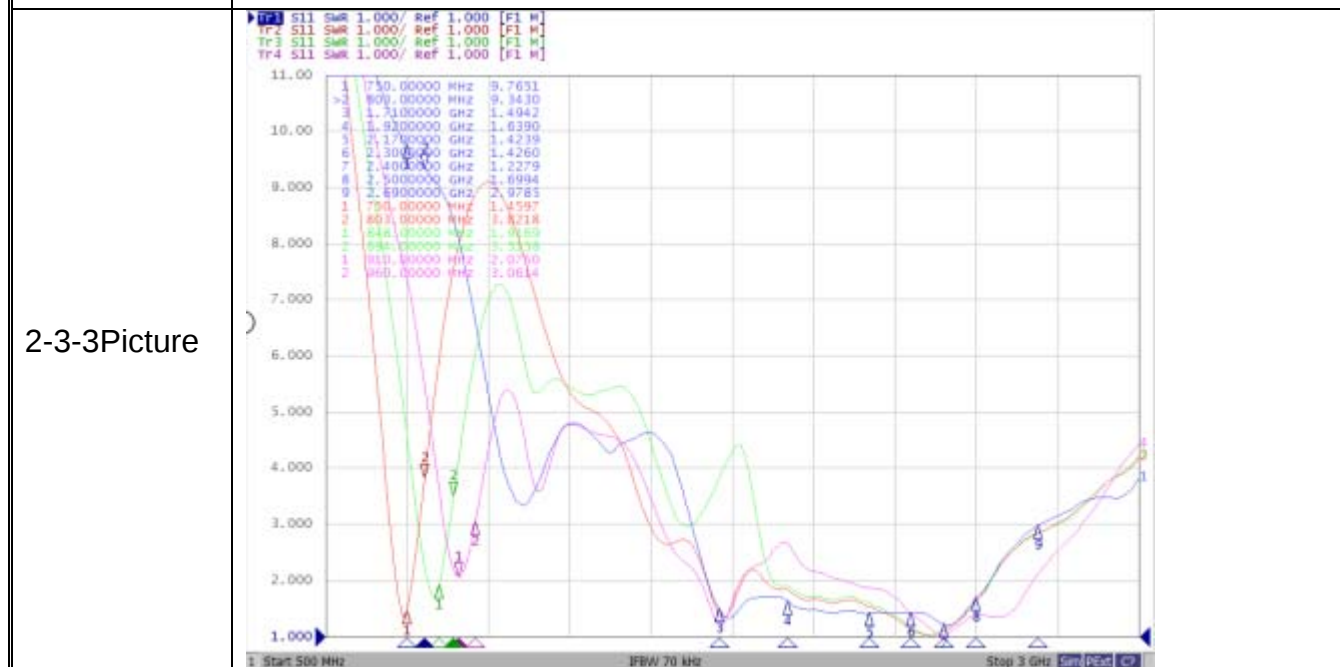
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DESIGNED BY : 骆业辉	APPROVED BY : 王伟		
TITLE : <u>GH6321-LTE-ANT-V2.0</u> Specification		DOCUMENT NO.	PAGE REV A0

2-3. VSWR ,Efficiency ,Matching and Active Data :

2-3.1 VSWR:

Frequency Band	880	960	1710	2170	2500	2690
2-3-1. Typical Value:	≤ 3	≤ 3.5	≤ 2	≤ 2.0	≤ 2	≤ 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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2-4. Measure and Chamber

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=± HOLEDIA=±

SCALE :

UNIT : mm

DRAWN BY : 黄土勇

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DESIGNED BY : 骆业辉

APPROVED BY : 王伟

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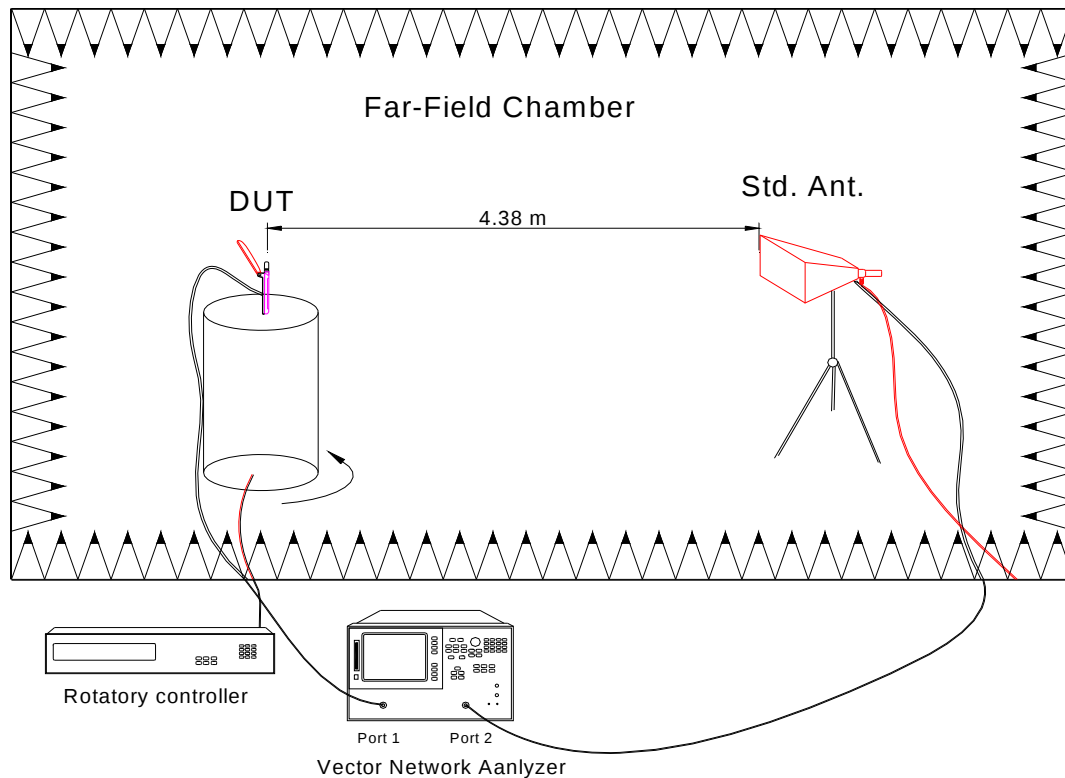
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2-4-1 Measure method

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 quiet 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 OTA

2-4-4 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 (%)
700	-17.96	-21.48	1%	-14.37	-17.56	2%	-13.06	-15.99	3%	-8.48	-11.77	7%
710	-17.74	-21.31	1%	-13.79	-17.06	2%	-12.82	-15.94	3%	-7.62	-10.99	8%
720	-17.57	-21.23	1%	-13.39	-16.59	2%	-11.77	-14.88	3%	-6.72	-10.20	10%
730	-17.43	-21	1%	-12.95	-15.93	3%	-11.24	-14.61	3%	-5.87	-9.53	11%
740	-17.61	-21.03	1%	-12.13	-15.19	3%	-10.00	-13.42	5%	-5.08	-8.94	13%
750	-17.65	-21.34	1%	-11.28	-14.65	3%	-8.95	-12.72	5%	-4.24	-8.55	14%
760	-17.24	-21.1	1%	-10.89	-14.42	4%	-8.64	-12.87	5%	-4.11	-8.61	14%
770	-16.43	-19.97	1%	-10.88	-14.27	4%	-8.15	-12.09	6%	-4.69	-9.15	12%
780	-15.72	-19.07	1%	-10.67	-13.98	4%	-8.00	-12.07	6%	-5.23	-9.66	11%
790	-15.09	-18.58	1%	-10.16	-13.70	4%	-7.12	-10.91	8%	-5.50	-10.11	10%
800	-14.67	-18.25	1%	-9.76	-13.40	5%	-6.70	-10.67	9%	-6.09	-10.84	8%
810	-14.21	-17.8	2%	-9.31	-12.98	5%	-6.09	-9.87	10%	-6.57	-11.18	8%
820	-14.15	-17.58	2%	-8.81	-12.64	5%	-5.45	-9.30	12%	-7.01	-12.08	6%
830	-14.15	-17.53	2%	-8.55	-12.51	6%	-5.14	-8.78	13%	-7.63	-12.68	5%
840	-13.88	-17.32	2%	-8.03	-12.32	6%	-4.88	-8.66	14%	-8.09	-13.38	5%
850	-13.47	-17.01	2%	-7.01	-11.87	7%	-4.34	-8.40	14%	-8.73	-14.41	4%
860	-13.34	-17	2%	-6.52	-11.79	7%	-4.22	-8.52	14%	-9.41	-14.63	3%
870	-13.06	-16.99	2%	-6.00	-11.45	7%	-4.21	-8.68	14%	-9.96	-15.35	3%
880	-12.41	-16.28	2%	-5.24	-10.54	9%	-4.31	-8.94	13%	-10.43	-15.90	3%
890	-12.22	-16.18	2%	-5.05	-9.92	10%	-4.73	-9.36	12%	-11.26	-16.57	2%
900	-12.02	-16.02	3%	-4.96	-9.64	11%	-4.99	-9.73	11%	-11.75	-17.19	2%
910	-11.27	-15.38	3%	-4.64	-9.39	12%	-5.18	-10.15	10%	-12.11	-17.71	2%
920	-10.81	-15.08	3%	-4.55	-9.43	11%	-5.62	-10.80	8%	-12.77	-18.57	1%
930	-10.41	-15.08	3%	-4.36	-9.55	11%	-5.91	-11.41	7%	-13.28	-19.37	1%
940	-9.88	-14.83	3%	-4.31	-9.76	11%	-6.23	-11.95	6%	-13.62	-19.97	1%
950	-9.82	-14.71	3%	-4.86	-10.19	10%	-7.14	-12.71	5%	-14.52	-20.73	1%
960	-10.04	-14.62	3%	-5.59	-10.66	9%	-8.40	-13.68	4%	-15.92	-21.85	1%

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±

SCALE :

UNIT : mm

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APPROVED BY : 王伟

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2140	0.59	-4.62	35%	-0.47	-5.98	25%	-0.16	-5.68	27%	0.06	-5.52	28%
2150	0.39	-4.62	34%	-0.60	-5.90	26%	-0.47	-5.78	26%	-0.23	-5.63	27%
2160	0.19	-4.65	34%	-0.55	-5.80	26%	-0.66	-5.89	26%	-0.48	-5.74	27%
2170	0.48	-4.52	35%	0.03	-5.67	27%	-0.28	-5.89	26%	-0.24	-5.74	27%
2300	-0.32	-4.63	34%	1.00	-5.67	27%	0.50	-5.95	25%	0.68	-5.86	26%
2310	-0.62	-4.79	33%	0.90	-5.82	26%	0.43	-6.07	25%	0.61	-5.98	25%
2320	-0.24	-4.56	35%	1.46	-5.60	28%	1.00	-5.84	26%	1.20	-5.76	27%
2330	-0.26	-4.49	36%	1.37	-5.55	28%	0.93	-5.77	26%	1.11	-5.69	27%
2340	-0.6	-4.69	34%	0.93	-5.75	27%	0.50	-5.96	25%	0.65	-5.88	26%
2350	-0.02	-4.56	35%	1.42	-5.56	28%	1.01	-5.79	26%	1.11	-5.72	27%
2360	0.32	-4.32	37%	1.50	-5.44	29%	1.17	-5.64	27%	1.25	-5.57	28%
2370	0	-4.32	37%	1.18	-5.37	29%	0.88	-5.57	28%	0.94	-5.53	28%
2380	0.43	-4.2	38%	1.58	-5.21	30%	1.30	-5.43	29%	1.38	-5.38	29%
2390	1.08	-3.89	41%	1.95	-4.95	32%	1.68	-5.17	30%	1.75	-5.14	31%
2400	0.85	-3.82	41%	1.48	-5.02	31%	1.20	-5.25	30%	1.21	-5.24	30%
2500	2.09	-3.2	48%	0.41	-4.91	32%	0.91	-4.74	34%	0.34	-4.64	34%
2510	2.56	-2.99	50%	0.72	-4.71	34%	1.16	-4.56	35%	0.65	-4.46	36%
2520	2.64	-2.87	52%	0.68	-4.51	35%	1.03	-4.39	36%	0.63	-4.27	37%
2530	2.3	-2.94	51%	0.29	-4.53	35%	0.55	-4.42	36%	0.24	-4.26	37%
2540	2.28	-2.95	51%	0.34	-4.46	36%	0.53	-4.38	36%	0.29	-4.20	38%
2550	2.24	-2.99	50%	0.33	-4.39	36%	0.42	-4.31	37%	0.34	-4.13	39%
2560	2.03	-3.24	47%	0.17	-4.49	36%	0.30	-4.41	36%	0.27	-4.21	38%
2570	2.21	-3.34	46%	0.44	-4.44	36%	0.58	-4.36	37%	0.60	-4.15	38%
2580	2.4	-3.32	47%	0.62	-4.34	37%	0.80	-4.23	38%	0.85	-4.02	40%
2590	2.44	-3.37	46%	0.63	-4.28	37%	0.84	-4.14	39%	0.92	-3.94	40%
2600	2.47	-3.39	46%	0.72	-4.14	39%	0.93	-3.99	40%	1.02	-3.81	42%
2610	2.14	-3.42	45%	0.40	-4.11	39%	0.68	-3.89	41%	0.82	-3.71	43%
2620	1.92	-3.45	45%	0.50	-4.05	39%	0.57	-3.81	42%	0.70	-3.67	43%
2630	2.02	-3.49	45%	0.73	-3.91	41%	0.97	-3.65	43%	1.08	-3.53	44%
2640	1.66	-3.78	42%	0.55	-3.98	40%	0.99	-3.66	43%	1.13	-3.56	44%
2650	1.5	-3.96	40%	0.57	-4.01	40%	1.05	-3.68	43%	1.16	-3.61	44%
2660	1.85	-3.93	41%	1.21	-3.78	42%	1.70	-3.46	45%	1.78	-3.40	46%
2670	1.49	-4.09	39%	1.15	-3.72	42%	1.67	-3.41	46%	1.74	-3.37	46%
2680	0.89	-4.48	36%	0.85	-3.84	41%	1.37	-3.58	44%	1.42	-3.56	44%
2690	1.54	-4.36	37%	1.68	-3.60	44%	2.18	-3.38	46%	2.29	-3.39	46%

3. Antenna 3D Radiation Pattern

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±

SCALE :

UNIT : mm

DRAWN BY : 黄土勇

CHECKED BY : 肖坤雄

DESIGNED BY : 骆业辉

APPROVED BY : 王伟

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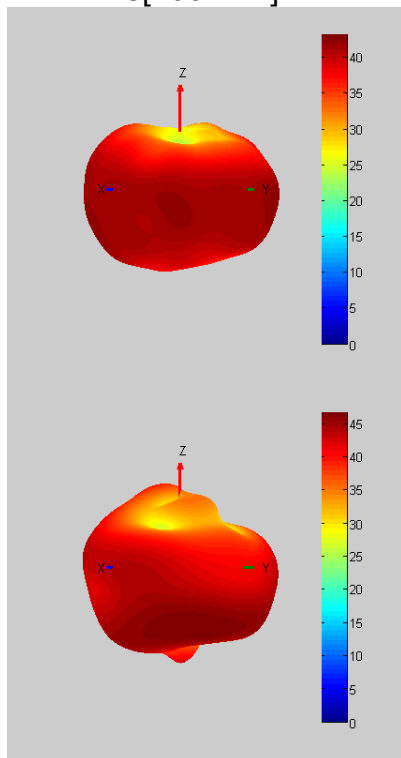
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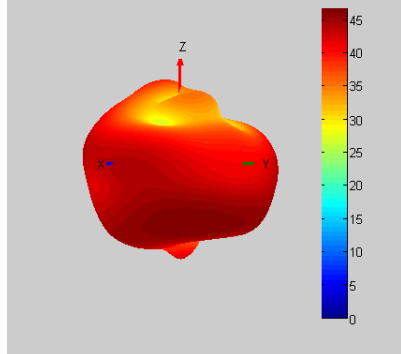
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4.

5. -LTE B28[700MHz]



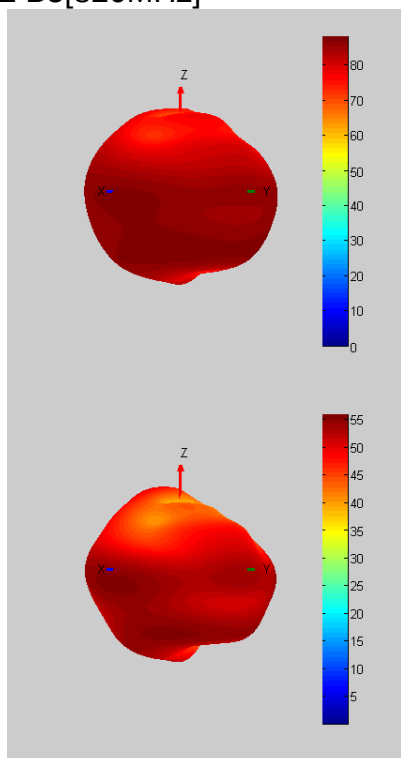
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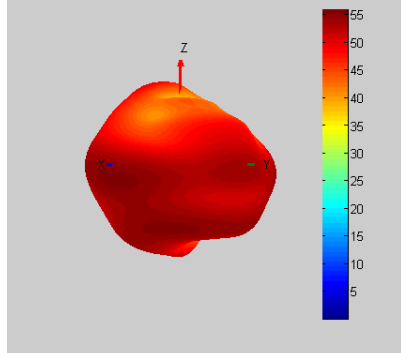
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8. -LTE B28[800MHz]

9. -LTE B5[820MHz]



10.



11.

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±

SCALE :

UNIT : mm

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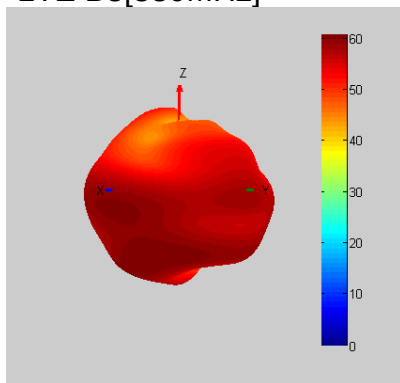
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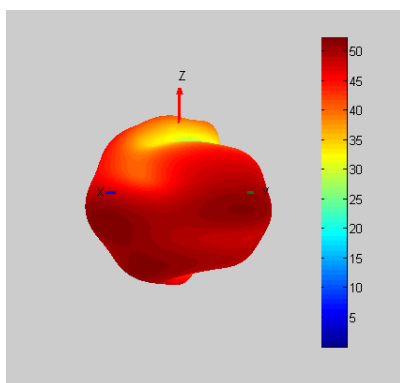
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12. -LTE B5[890MHz]-

13. -LTE B8[880MHz]



14.

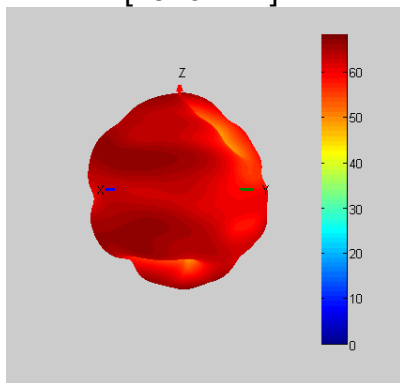


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16. -LTE B8[960MHz]

17.

18. -LTE B1[1920MHz]



19.

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X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=± HOLEDIA=±

SCALE :

UNIT : mm

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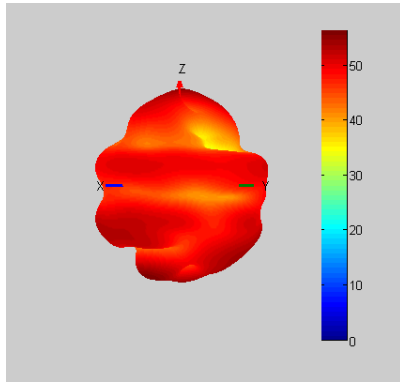
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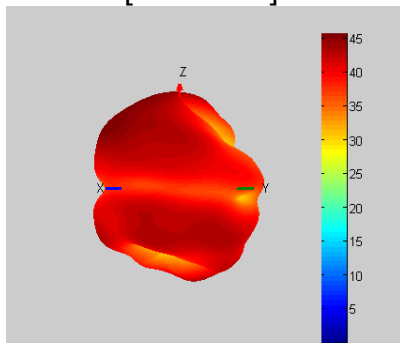
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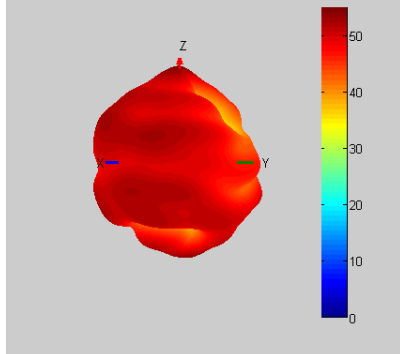
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21. -LTE B[2170MHz]

22. -LTE B3[1710MHz]



23.



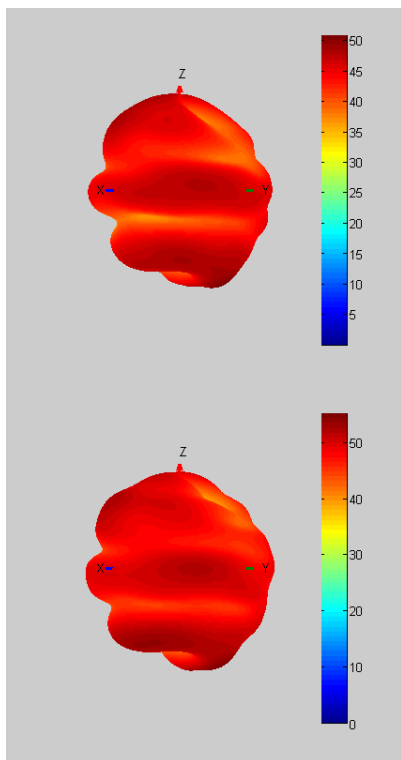
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25. -LTE B3[1880MHz]

26. -LTE B7[2500MHz]

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28.

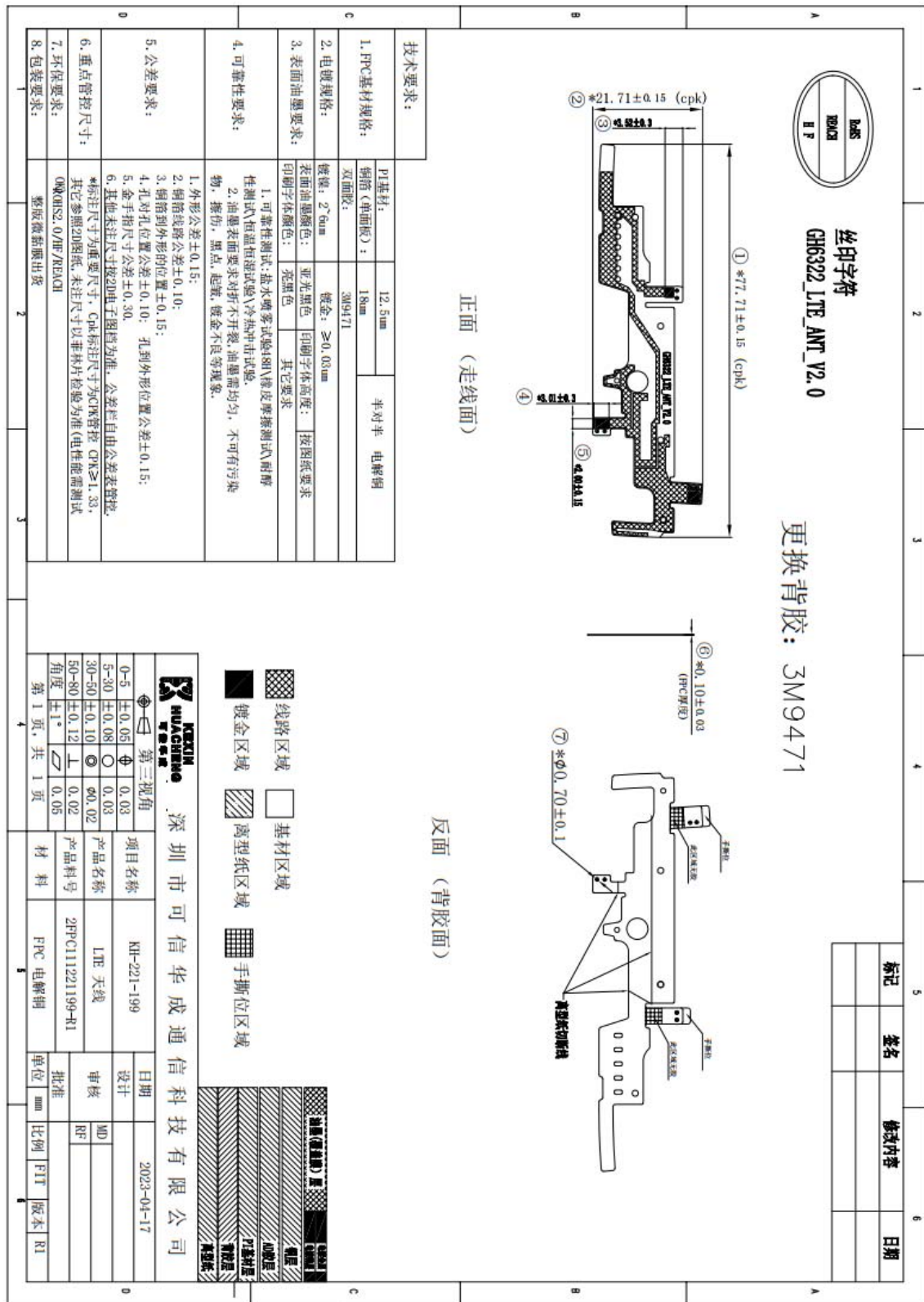
29.

-LTE B7[2690MHz]

30.

Antenna Dimensions:

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X=±2	X.X=±0.1		
ANGLES=±		HOLEDIA=±	
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31.

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=± HOLEDIA=±

SCALE :

UNIT : mm

DRAWN BY : 黄土勇

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