

品名 : **GH6321M-GSM-ANT-V2.1**

History List

[illegible]

GH6321M-GSM-ANT-V2.1 Specification

1. Explanation of part number :

GH6321M – **GSM-ANT** – **V2.1**
(1) **(2)** **(3)**

(1) Model Name : GH6321M

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

(3) Suffix :V2.1

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
LTE	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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SCALE :

UNIT : mm

DRAWN BY : 李森

CHECKED BY : 肖坤雄

DESIGNED BY : 覃佐治

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	2500	2690
2-3-1. Typical Value:	≤ 3	≤ 3.5	≤ 2	≤ 2.0	≤ 2	≤ 3
2-3-2Measuring Method	1. A 50Ωcoaxial 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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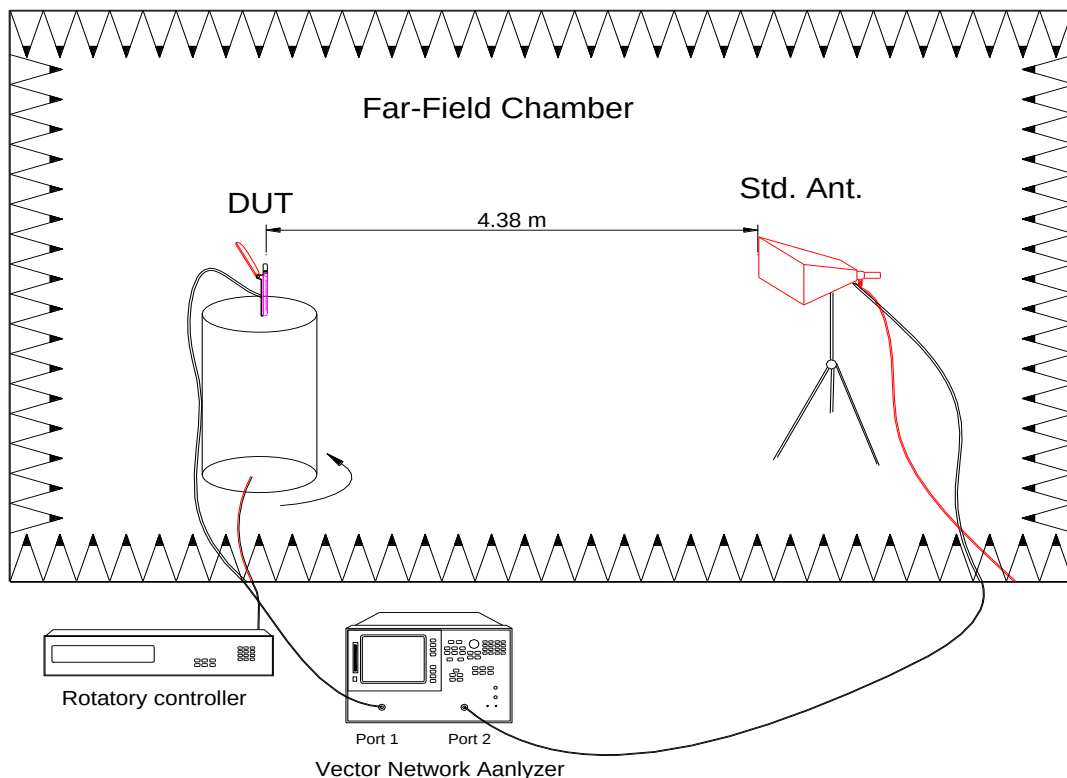
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2-4. Measure and Chamber

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 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

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(BBHA9120 LPF 700MHz ~6GHz)

2-4-3 Antenna OTA

2-4-4 Antenna Efficiency

Frequency (MHz)	RF1			RF2			RF3			RF4		
	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
600										-3.99	-9.64	11%
610										-2.64	-8.37	15%
620										-1.88	-7.41	18%
630										-1.87	-6.81	21%
640										-1.86	-6.23	24%
650										-1.55	-5.87	26%
660										-1.12	-5.65	27%
670										-0.43	-5.49	28%
680										-0.69	-5.77	26%
690							-4.12	-9.24	12%	-3.99	-9.64	11%
700							-3.04	-8.11	15%			
710							-1.63	-7.25	19%			
720							-1.71	-6.64	22%			
730							-1.74	-5.98	25%			
740							-1.84	-5.45	29%			
750							-1.91	-4.98	32%			
760							-0.64	-4.5	36%			
770							0.2	-4.32	37%			
780							-0.24	-4.49	36%			
790							-0.53	-4.83	33%			
800							-1.12	-5.38	29%			
810							-2.04	-6.16	24%			
820				-4.12	-7.88	16%						
830				-3.01	-6.92	20%						
840				-2.13	-6.06	25%						

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850				-1.55	-5.50	28%						
860				-1.83	-5.39	29%						
870				-1.85	-5.82	26%						
880				-2.12	-6.55	22%						
890				-2.71	-7.55	18%						
1800							-0.38	-5.56	28%			
1810							-0.62	-5.64	27%			
1820							-0.87	-5.72	27%			
1830							-0.74	-5.65	27%			
1840							-0.66	-5.64	27%			
1850							-0.78	-5.70	27%			
1860							-0.74	-5.56	28%			
1870							-0.82	-5.60	28%			
1880							-1.12	-5.75	27%			
1890							-1.40	-5.94	25%			
1900							-1.44	-6.00	25%			
1910							-1.25	-5.90	26%			
1920							-1.51	-6.04	25%			
1930							-1.73	-6.12	24%			
1940							-1.60	-5.99	25%			
1950							-1.65	-6.07	25%			
1960							-1.85	-6.32	23%			
1970							-1.72	-6.25	24%			
1980							-1.71	-6.35	23%			
1990							-2.03	-6.60	22%			
2110				-2.11	-7.26	19%						
2120				-2.32	-7.38	18%						
2130				-2.33	-7.47	18%						
2140				-0.73	-7.59	17%						
2150				-2.34	-7.65	17%						
2160				-2.36	-7.69	17%						
2170				-2.33	-6.29	23%						
2500				-0.29	-6.57	22%						
2510				-0.34	-6.71	21%						
2520				-0.73	-6.94	20%						
2530				-0.86	-7.23	19%						
2540				-0.94	-7.45	18%						
2550				-1.25	-7.73	17%						
2560				-1.41	-7.93	16%						

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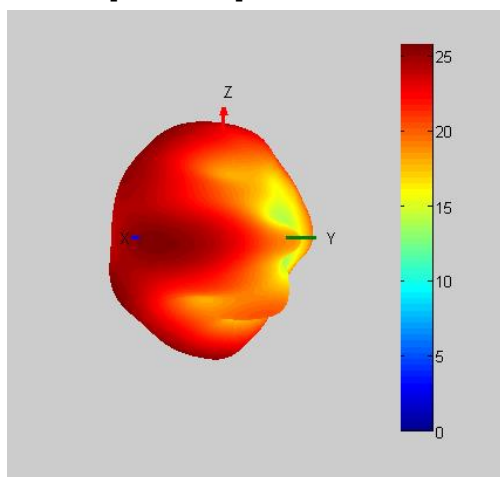
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2570				-1.49	-8.08	16%						
2580				-1.76	-8.19	15%						
2590				-1.94	-8.30	15%						
2600				-1.99	-8.44	14%						
2610				-2.29	-8.76	13%						
2620				-2.57	-9.09	12%						
2630				-2.77	-9.27	12%						
2640				-3.22	-9.57	11%						
2650				-3.66	-9.90	10%						
2660				-3.76	-9.93	10%						
2670				-3.94	-10.00	10%						
2680				-4.36	-10.30	9%						
2690				-4.36	-10.30	9%						

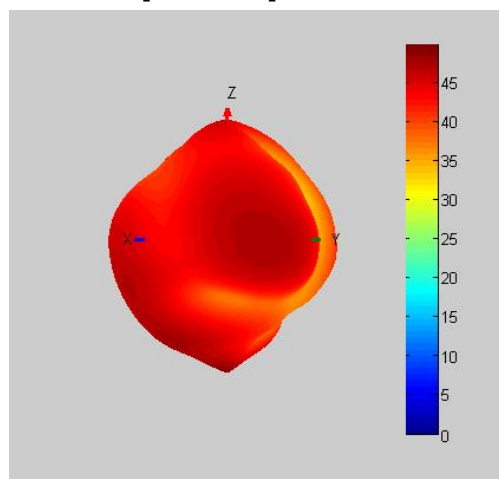
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3. 3D Radiation Pattern

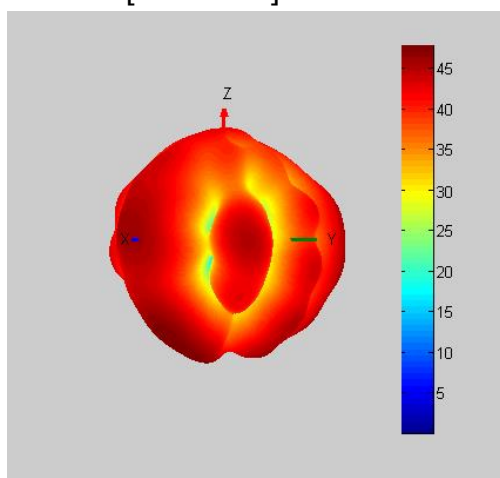
LTEB5[824MHz]



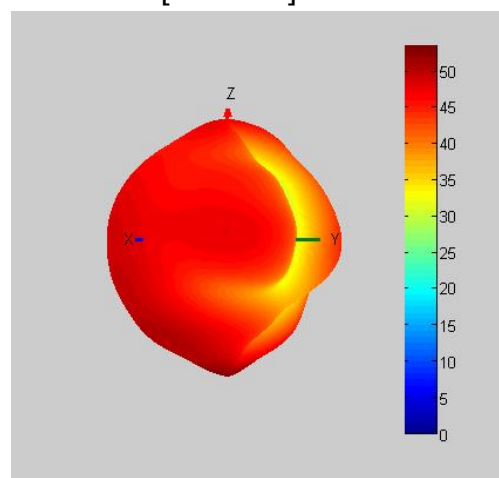
LTEB12[699MHz]



LTEB41[2500MHz]



LTEB71[698MHz]



LTEB3[1710MHz]

LTEB2[1850MHz]

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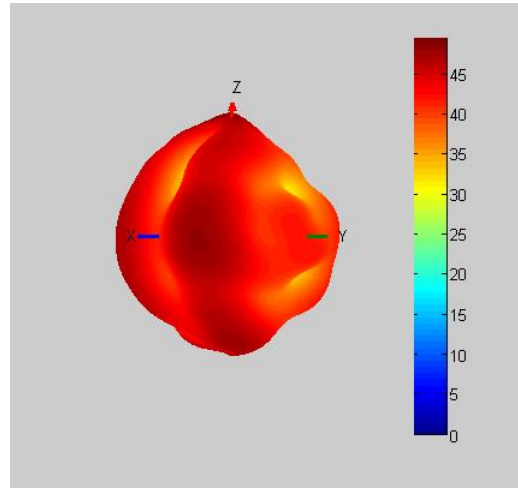
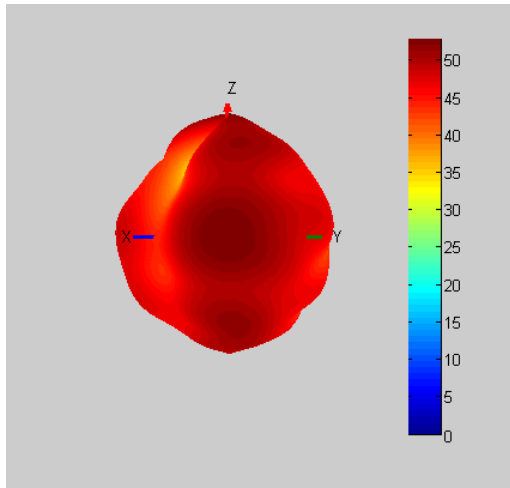
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4.Antenna Dimensions:

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