KEXIN HUACHENG 可信华成

品名 ：**KH-GX1961-LTE-F**

History List

版本 REV.	修訂者 EDITOR	修訂頁次 PAGE	修訂內容 ITEMS OF CHANGE	申請日期 DATE	生效日期 VALID DATE	ECN 编号 ECN NO
V1.0	王涛	ALL	发行正式	2022/12/08	2022/12/08	N/A

MB-GX2421-BT-P Specification

1. Explanation of part number :

MB	_	GX2421	_	LTE	_	P
(1)		(2)		(3)		(4)

(1) Supplier：MB

(2) Model Name：GX2421

(3) Frequency : 2400-2500 Mhz

(4) Material :PCB

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
BT	**2400-2500Mhz**

2-2. Impedance

50 ohm nominal

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

2-3.1 VSWR:

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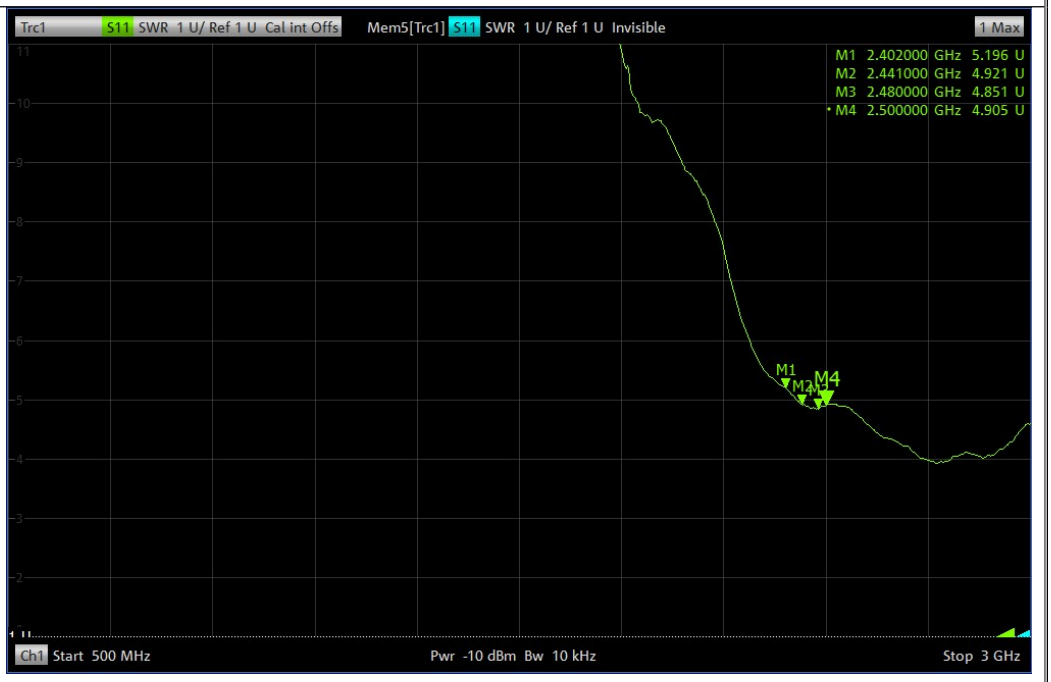
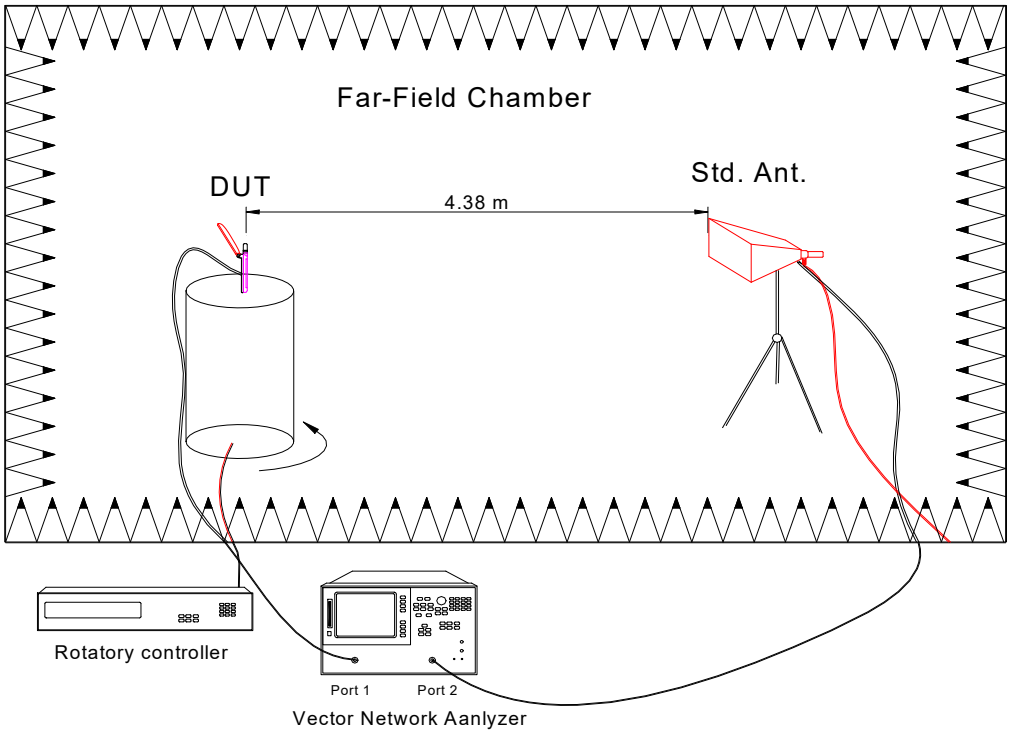
Frequency Band	2402	2441	2480	2500		
2-3-1. Typical Value:	≦5.5	≦5.5	≦5.5	≦5.5		
2-3-2Measuring Method	1. A 50Ω coaxial cable is connected to the fpcb antenna. Then this cable is connected to a network analyzer to measure the VSWR. 2. Keeping this jig away from metal at least 20 cm.					
2-3-3Picture						

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

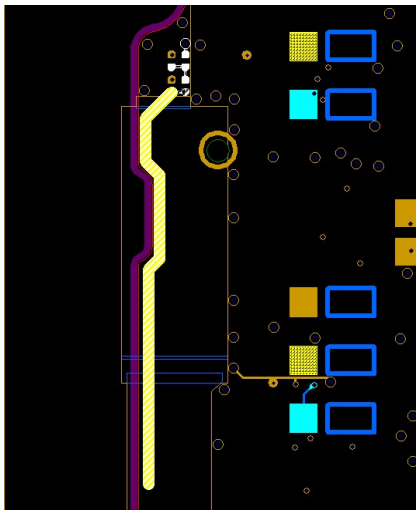


1. An anechoic chamber (8mx4mx3.5m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quite room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn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

2-4-3PCB BT Antenna Efficiency

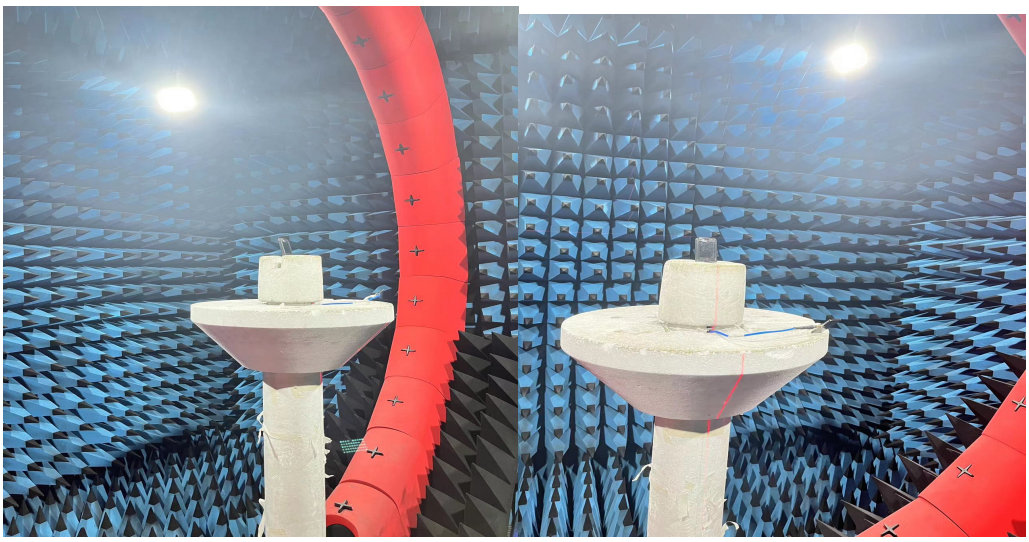
Frequency (MHz)	Peak Gain (dB)	Average Gain (dB)	Efficiency (%)
2400	-2.29	-5.90	25.72
2402	-1.83	-5.53	28.01
2410	-2.24	-5.76	26.54
2420	-2.03	-5.51	28.12
2430	-2.00	-5.55	27.86
2440	-2.17	-5.76	26.53
2441	-2.23	-5.77	26.48
2450	-2.02	-5.70	26.89
2460	-1.68	-5.33	29.29
2470	-1.52	-5.28	29.63
2480	-1.79	-5.62	27.42
2490	-1.75	-5.57	27.73
2500	-1.80	-5.61	27.48

3-3 PCB BT Antenna Dimensions（mm）

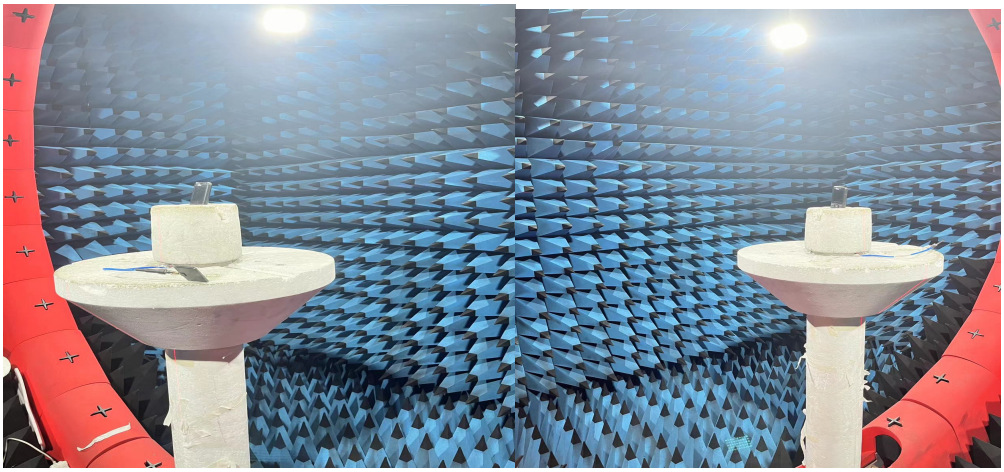


3-3 Testing Environment

Passive Test



Active Test



4.3D Radiation Pattern

- BT

[2441MHz]

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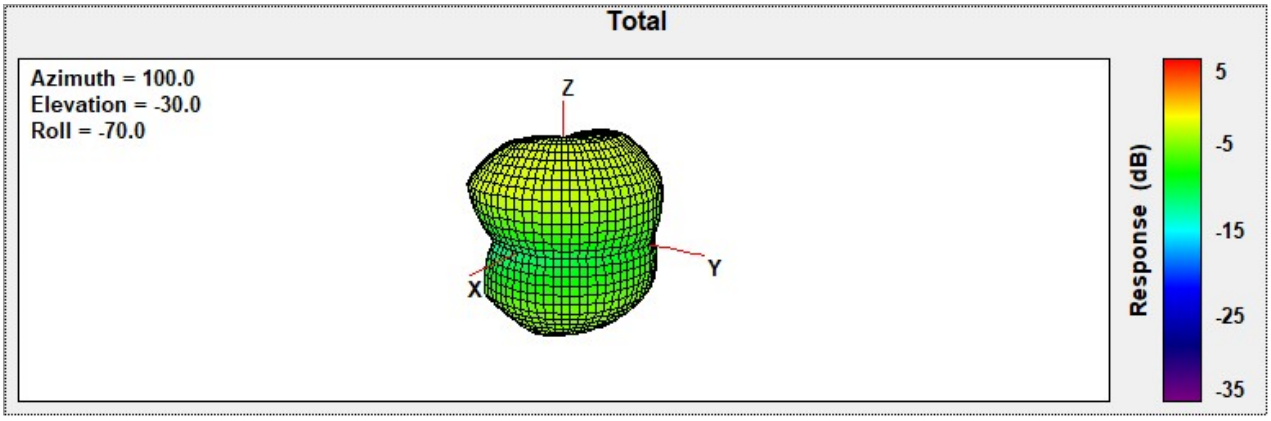

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