品名 ：**GH6321-4IN1ANT-V2.0** **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
V2.0	骆业辉	ALL	发行正式	2023/05/10	203/05/10	N/A

GH6321-4IN1ANT-V2.0 Specification

1. Explanation of part number :

GH6321	_	4IN1ANT	_	V2.0
(1)		(2)		(3)

(1) Model Name：GH6321

(2) Frequency : 1575Mhz, 2400-2500MHz，5150-5850MHz

(3) Suffix :V2.0

2. Electrical Specification :

2-1. Frequency Band:

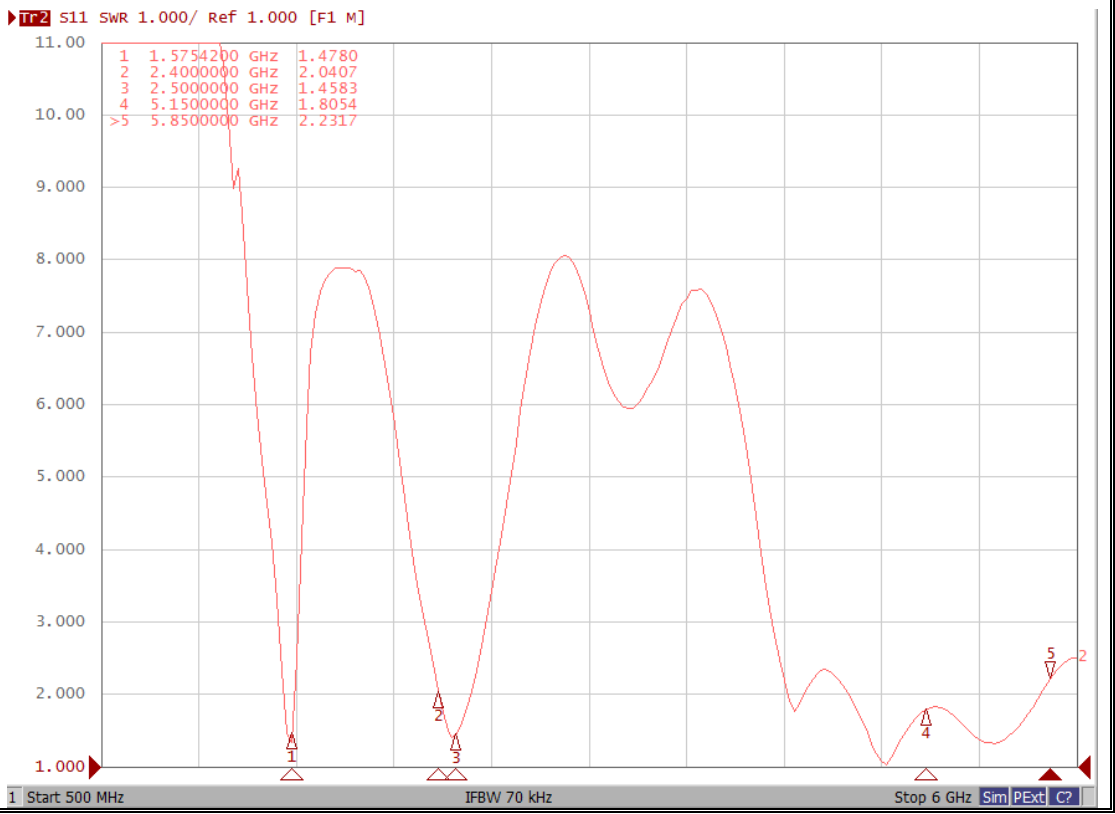
Frequency Band	MHz
GPS&BT&WIFI	**1575Mhz, 2400-2500MHz，5150-5850MHz**

2-2. Impedance

50 ohm nominal

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

2-3.1 VSWR:

Frequency Band	1575	2400	2500	5150	5950
2-3-1. Typical Value:	≦2	≦2.5	≦2	≦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.				
2-3-3Picture					

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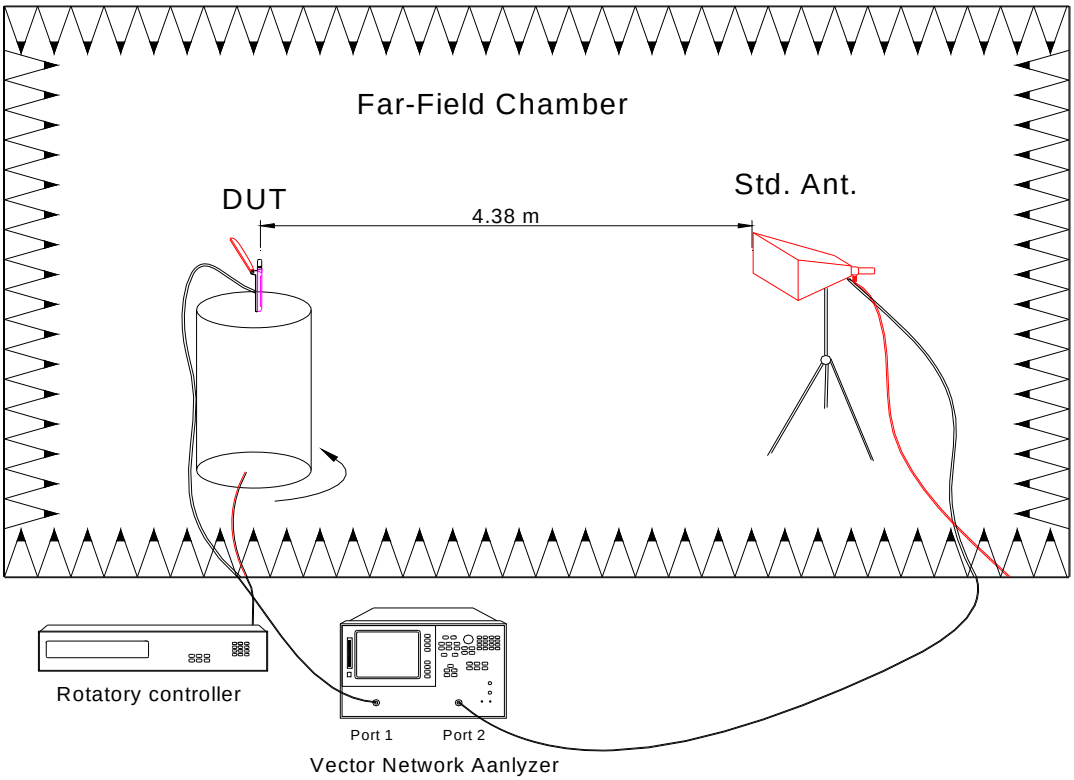
2-4. *Measure and Chamber*

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)

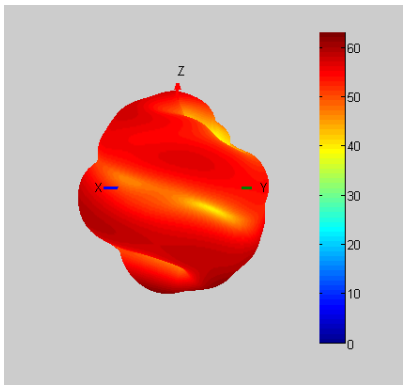
2-4-3 Antenna OTA

2-4-4 Antenna Efficiency

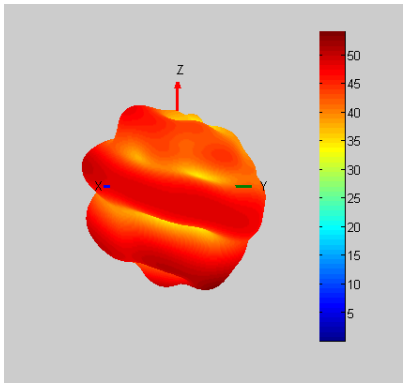
GPS				2.4G WIFI				5G WIFI			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
1550	1.77	-4.63	34%	2400	2.15	-4.67	34%	5150	2.29	-4.66	34%
1555	2.02	-4.38	36%	2410	2.43	-4.55	35%	5200	2.62	-4.72	34%
1560	1.97	-4.35	37%	2420	3.07	-4.18	38%	5250	2.16	-5.06	31%
1565	1.63	-4.49	36%	2430	2.79	-4.27	37%	5300	2.39	-5.15	31%
1570	1.41	-4.50	35%	2440	2.77	-4.31	37%	5350	2.78	-5.24	30%
1575	1.18	-4.54	35%	2450	3.30	-3.99	40%	5400	2.18	-5.44	29%
1580	0.87	-4.73	34%	2460	3.15	-4.01	40%	5450	1.42	-5.74	27%
1585	0.49	-4.97	32%	2470	2.89	-4.21	38%	5500	1.86	-5.76	27%
1590	0.15	-5.14	31%	2480	3.11	-4.13	39%	5550	1.35	-6.12	24%
1595	-0.32	-5.50	28%	2490	3.02	-4.19	38%	5600	0.81	-6.31	23%
1600	-0.89	-5.90	26%	2500	2.59	-4.63	34%	5650	1.01	-6.37	23%
								5700	-0.08	-7.15	19%
								5750	-1.21	-6.95	20%
								5800	0.23	-6.09	25%
								5850	-0.90	-7.44	18%

3. 3D Radiation Pattern

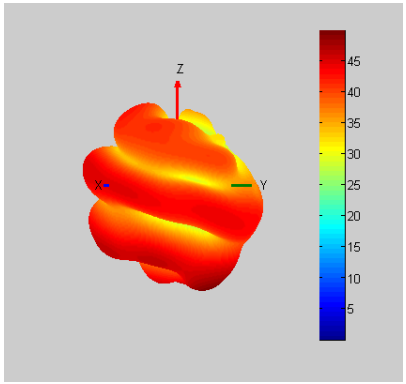
GPS 【1575MHz】



BT/WiFi 2.4GHz C0 [2400MHz]



BT/WiFi 2.4GHz C0 [2500MHz]



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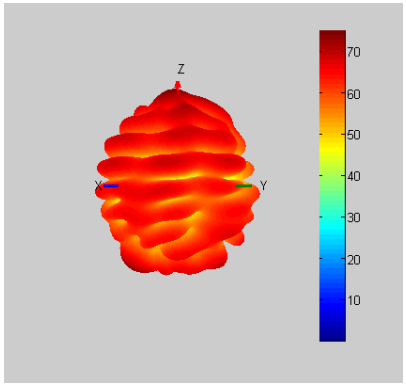
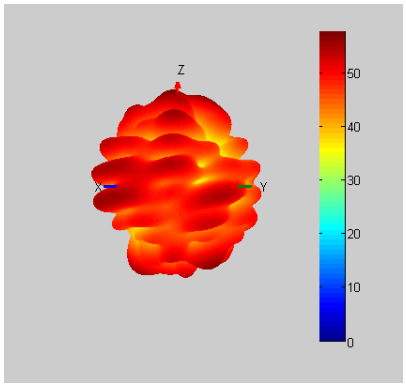
WiFi 5GHz [5150MHz]



WiFi 5GHz [5850MHz]



4. Antenna Dimensions:

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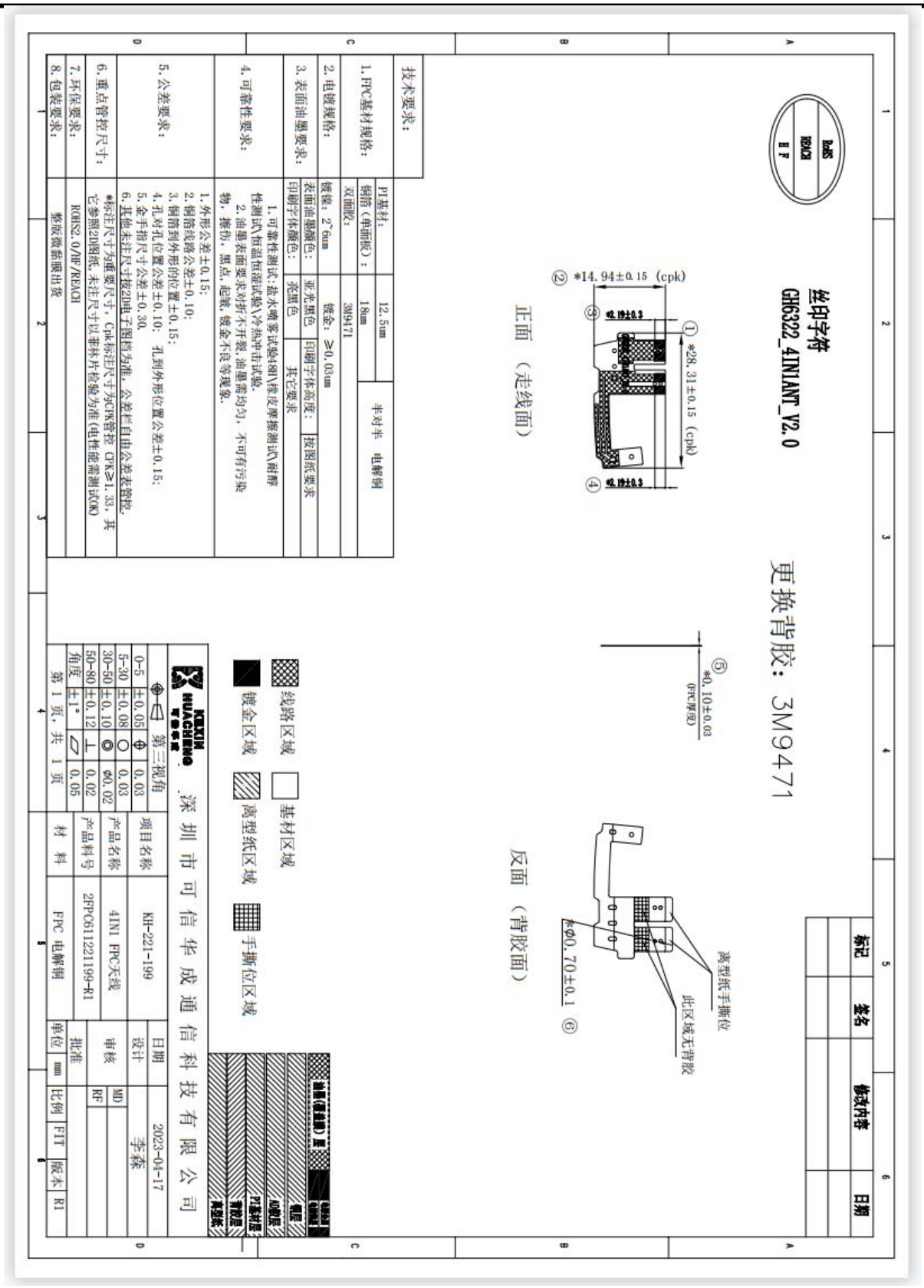

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