

品名:<u>WAG-B1.01.L.0806 工规</u>

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
AO	蒋代勇	ALL	发行正式	2022/09/20	2022/09/20	N/A
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WAG-B.01.L.0806 Specification

1. Explanation of part number :

 $\frac{\text{WAG}}{\text{(1)}} \quad \underline{B} \quad \underline{01} \quad \underline{L} \quad \underline{0806}$

- (1) Product Type: Wireless Antenna
- (2) Material: FPC
- (3) Frequency: 1575.42Mhz, 2400-2500Mhz
- (4) Coaxial Cable Type: 00
- (5) Suffix: 047

2. Electrical Specification:

2-1. Frequency Band:

Frequency Band	MHz
GPS,WIFI	1575.42Mhz , 2400-2500Mhz,

2-2. Impedance

50 ohm nominal

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

2-3.1 VSWR:

Frequency Band		1575.42	2		2400		2	500			
2-3-1. Typical Value:		≦2			<u>≤</u> 4			<u>≤</u> 4			
2-3-2Measurin	net	0Ωcoaxia work anal eping this	yzer to m	easure t	he VSWF	R.		hen this ca	ble is co	onnected	to a
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2-3-3Picture	6.000										
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	2.000				1	/					
	1.000					IFBW 70 kHz			<u> </u>		GHz Sim PExt

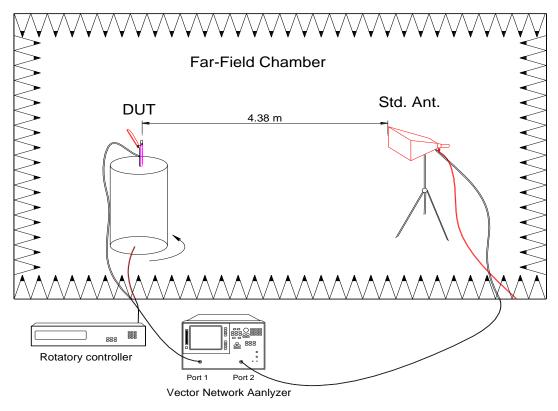
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2-4. Measure and Chamber

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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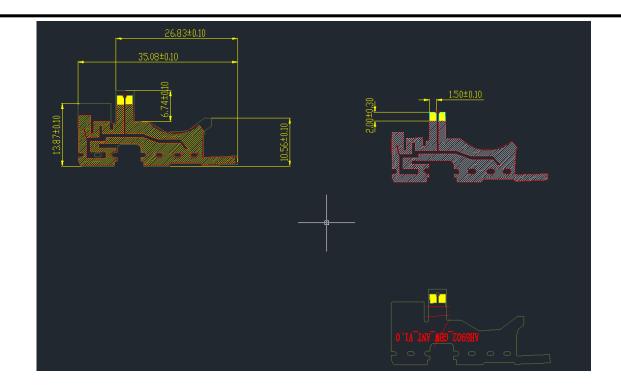


2-4-3 Antenna Efficiency

Frequency (MHz)	Peak Gain(dB)	Average Gain(dB)	Efficiency (%)
1570	0.51	-5.01	31.52
1571	0.52	-5.03	31.44
1572	0.54	-5.03	31.38
1573	0.57	-5.04	31.37
1574	0.6	-5.03	31.42
1575	0.64	-5.02	31.51
1575.42	0.66	-5.03	31.52
1576	0.67	-5	31.59
1577	0.72	-4.99	31.67
1578	0.75	-4.99	31.72
1579	0.78	-4.98	31.75
1580	0.8	-4.98	31.74
2400	-5.58	-0.67	27.67
2410	-5.52	-0.44	28.06
2420	-5.73	-0.53	26.72
2430	-5.78	-0.53	26.45
2440	-5.67	-0.39	27.12
2450	-5.64	-0.19	27.3
2460	-5.63	-0.11	27.34
2470	-5.86	-0.29	25.94
2480	-6.03	-0.46	24.97
2490	-6.03	-0.47	24.97
2500	-6.35	-0.64	23.16

3. Antenna Dimensions:

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4. Testing Environment

Passive Test

Please refer to antenna test photos for details.

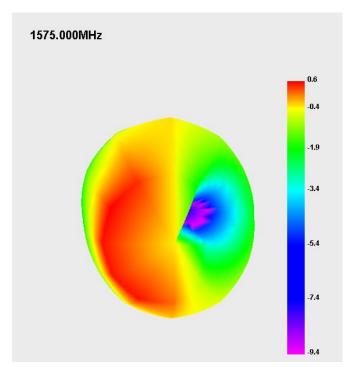
Active Test

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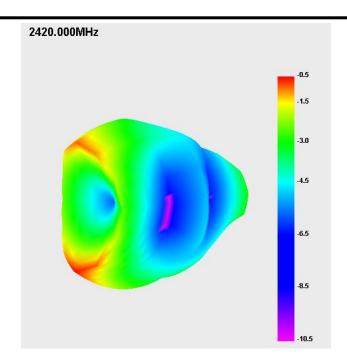
Please refer to antenna test photos for details.

5.3D Radiation Pattern GPS [1575MHz]

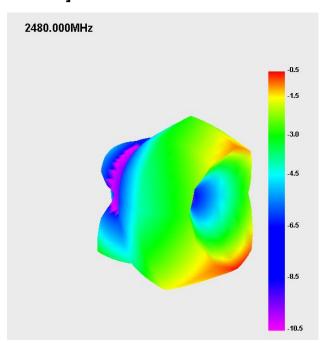


BT/WiFi 2.4GHz C0 [2420MHz]

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BT/WiFi 2.4GHz C0 [2480MHz]



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