

WAG-F-LAG0-00-054 Specification

1. Explanation of part number :

WAG – F – LAG0 – 00 – 054
(1) (2) (3) (4) (5)

(1) Product Type : Wireless Antenna

(2) Material : FPC

(3) Frequency : 1575.42Mhz+, 2400-2500 Mhz

(4) Coaxial Cable Type : 00

(5) Suffix : 054

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
GPS+WIFI	1575.42Mhz; 2400-2500 Mhz

2-2. Impedance

50 ohm nominal

2-3 VSWR:

Frequency Band	1575.42	2400	2500
2-3-1. Typical Value:	≤ 2.5	≤ 4	≤ 4
2-3-2 Measuring 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.		
2-3-3 Picture			

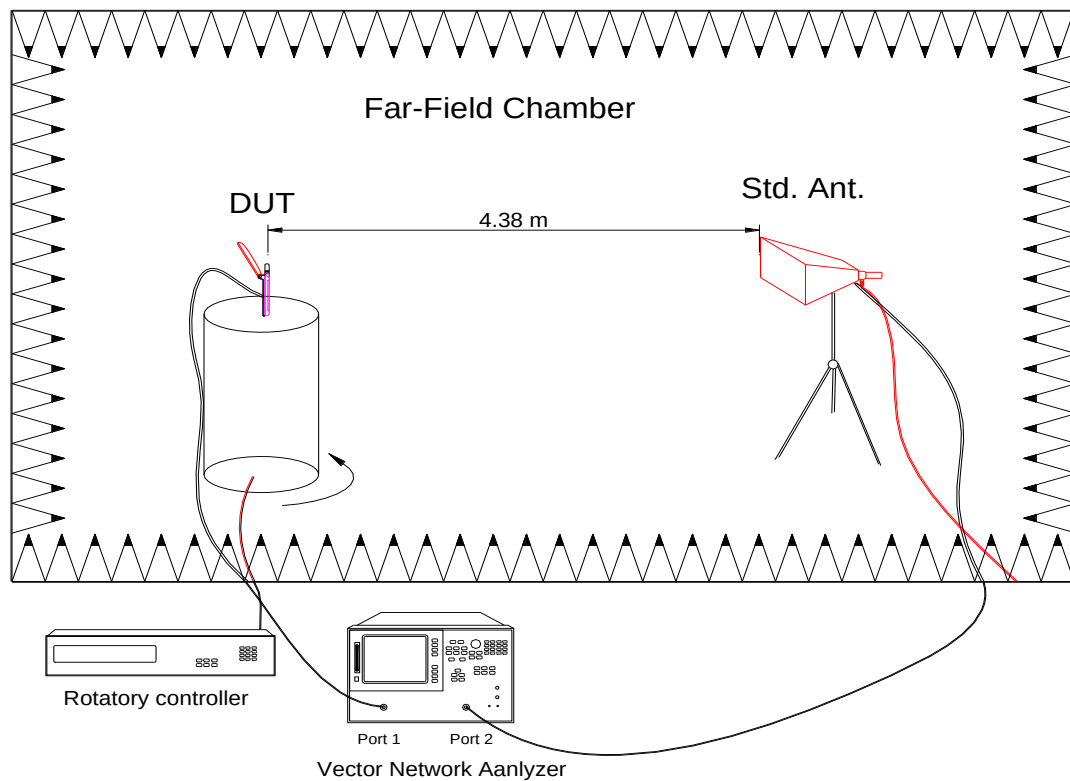
2-4. Measure and Chamber

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

UNLESS OTHER SPECIFIED TOLERANCES ON : X = ± 2 X.X = ± 0.1 X.XX = ± 0.05 ANGLES = $\pm$ HOLEDIA = $\pm$		 佳邦科技股份有限公司 INPAQ TECHNOLOGY CO., LTD.	
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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 Efficiency

Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
1570	-5.56	27.83	-0.32	2400	-4.83	34.45	-0.11
1571	-5.46	28.42	-0.25	2410	-4.62	34.48	0.25
1572	-5.39	28.91	-0.18	2420	-4.55	34.07	0.47
1573	-5.38	28.98	-0.17	2430	-4.83	34.88	0.56
1574	-5.4	28.83	-0.13	2440	-4.34	35.79	1.23
1575	-5.42	28.71	-0.11	2450	-4.51	35.37	1.89
1575.42	-5.42	28.68	-0.11	2460	-4.02	37.35	2.51
1576	-5.41	28.76	-0.11	2470	-4.63	35.41	1.54
1577	-5.4	28.86	-0.11	2480	-4.29	34.6	1.77
1578	-5.39	28.91	-0.13	2490	-4.38	33.5	1.68
1579	-5.4	28.85	-0.13	2500	-4.24	32.95	1.59
1580	-5.4	28.83	-0.18				
1590	-5.67	27.09	-0.33				
1600	-5.81	26.22	-0.56				
1602	-5.96	25.34	-0.72				

3. 3D Radiation Pattern

GPS [1575MHz]

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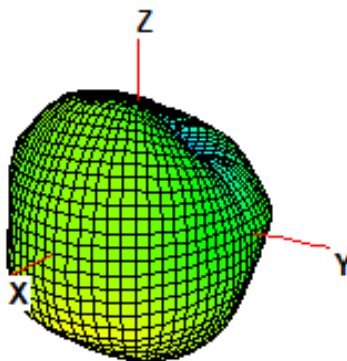


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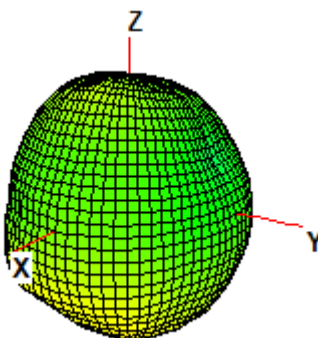
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BT/WiFi 2.4GHz C0 [2400MHz]



BT/WiFi 2.4GHz C0 [2500MHz]

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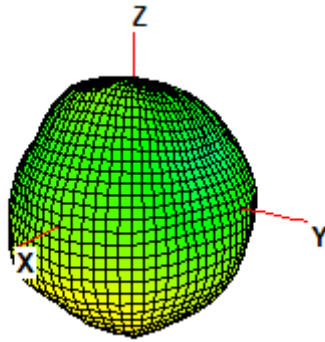
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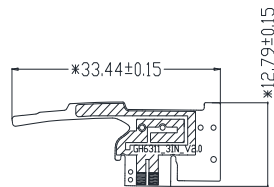
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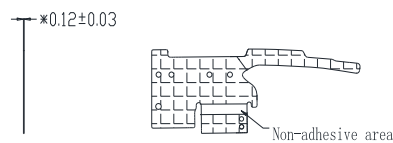
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4. Antenna Dimensions:



Front side



Back side

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