

品名：WAG-F-LAG0-00-047 工规

History List

[illegible]

WAG-F-LAG0-00-047 Specification

1. Explanation of part number :

WAG - F - LAG0 - 00 - 047
(1) (2) (3) (4) (5)

(1) Product Type : Wireless Antenna

(2) Material : FPC

(3) Frequency : 1575.42Mhz , 2400-2500Mhz, 5150~5825Mhz

(4) Coaxial Cable Type : 00

(5) Suffix : 047

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
GPS,WIFI	1575.42Mhz , 2400-2500Mhz,5150~5825Mhz

2-2. Impedance

50 ohm nominal

UNLESS OTHER SPECIFIED TOLERANCES ON:

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=± HOLEDIA=±



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SCALE:

UNIT: mm

DRAWN BY: 尹猛

CHECKED BY:

DESIGNED BY: 余超

APPROVED BY: 范东亚

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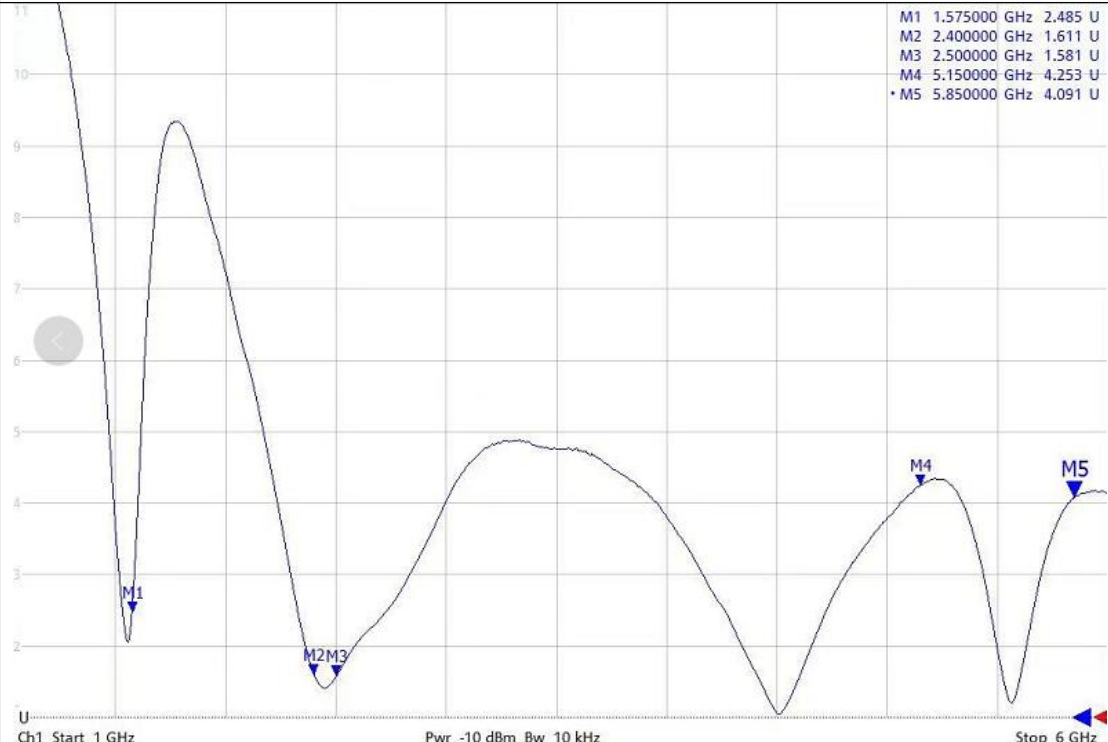
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2-3. VSWR ,Efficiency , and Active Data :

2-3.1 VSWR:

Frequency Band	1575.42	2400	2500	
2-3-1. Typical Value:	≤ 2	≤ 3	≤ 3.5	
2-3-2Measuring Method	1. A 50 Ω 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

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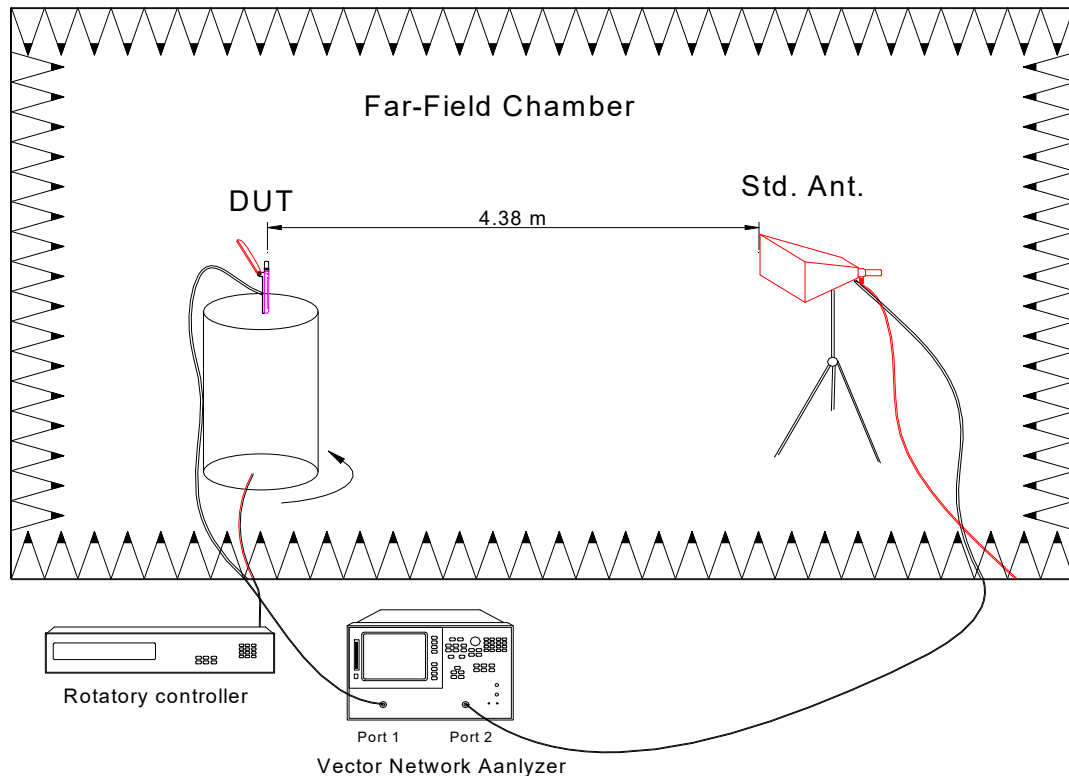
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2-4-1 Measure method

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 (BBHA9120 LPF 700MHz ~6GHz)

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2-4-3 TRP/TIS

			SPEC	测试值	GAP
802.11 b	TRP	1	12.5	11.4	-1.12
		6	12.5	12.8	0.34
		13	12.5	12.7	0.21
	TIS	1			
		6			
		13			
802.11 g	TRP	1	11	11.3	0.3
		6	11	13.0	1.97
		13	11	12.9	1.87
	TIS	1			
		6			
		13			
802.11 n	TRP	1	11	12.4	1.35
		6	11	14.5	3.48
		13	11	13.7	2.66
	TIS	1			
		6			
		13			
5GHz 802.11a TRP(6M)/TIS(54M)	TRP	44	8.5	8.3	-0.19
		60	8.5	9.4	0.93
		165	8.5	8.6	0.06
	TIS	44			
		60			
		165			

GPS	SPEC	测试值	GAP
TIS	-143	-145.06	2.06

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2-4-4 Antenna Efficiency

Frequency (MHz)	Peak Gain (dB)	Average Gain (dB)	Efficiency (%)
1570	-0.55	-4.52	35.35
1571	-0.44	-4.40	36.32
1572	-0.40	-4.32	36.96
1573	-0.39	-4.32	36.99
1574	-0.38	-4.35	36.69
1575	-0.40	-4.38	36.45
1575.42	-0.47	-4.43	36.05
1576	-0.52	-4.47	35.71
1577	-0.62	-4.50	35.48
1578	-0.60	-4.48	35.63
1579	-0.52	-4.43	36.02
1580	-0.42	-4.38	36.50
2400	-1.19	-4.52	35.32
2410	-1.22	-4.26	37.52
2420	-1.33	-4.24	37.66
2430	-1.95	-4.20	38.01
2440	-2.09	-4.11	38.83
2450	-2.06	-4.03	39.50
2460	-1.71	-4.06	39.29
2470	-1.17	-3.90	40.77
2480	-0.60	-4.01	39.70
2490	-0.48	-4.15	38.42
2500	-0.24	-4.34	36.84

UNLESS OTHER SPECIFIED TOLERANCES ON:
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Frequency (MHz)	Peak Gain (dB)	Average Gain (dB)	Efficiency (%)
5150	-2.36	-7.68	17.05
5200	-2.23	-7.28	18.71
5250	-2.16	-7.05	19.73
5300	-1.93	-6.34	23.25
5350	-1.86	-6.13	24.38
5400	-1.77	-5.85	25.97
5450	-1.79	-5.91	25.64
5500	-1.66	-5.51	28.13
5550	-1.75	-5.79	26.34
5600	-1.76	-5.82	26.17
5650	-1.83	-6.02	24.98
5700	-1.91	-6.28	23.57
5750	-1.96	-6.45	22.65
5800	-2.00	-6.58	22.00
5850	-2.07	-6.79	20.96

3. Antenna Dimensions:

UNLESS OTHER SPECIFIED TOLERANCES ON:

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ANGLES=±

HOLEDIA=±



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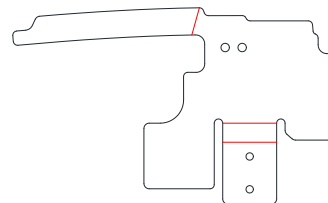
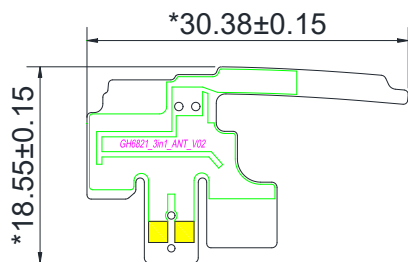
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 $X=\pm 2$ $X.X=\pm 0.1$ $X.XX=\pm 0.05$
 ANGLES= $\pm$ HOLEDIA= $\pm$



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