





## 2-2. Impedance

50 ohm nominal

## 2-3. VSWR:

Frequency Band	1560	1575.42	1620	2400	2500
2-3-1. Typical Value:	$\leq 3$	$\leq 2.5$	$\leq 3$	$\leq 1.5$	$\leq 1.5$
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	<p>1 1.5750000 GHZ 1.1060            2 2.4000000 GHZ 1.3189            &gt;3 2.5000000 GHZ 2.6541</p>				

## 2-4. Gain and Efficiency

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±      X.X=±0.15      X.XX=±0.15

ANGLES=±      HOLEDIA=±

SCALE :      UNIT : mm

DRAWN BY : Eason      CHECKED BY : 张冬冬

DESIGNED BY : Eason      APPROVED BY : 张冬冬

TITLE : WAG-F-LAG0-00-052 specification



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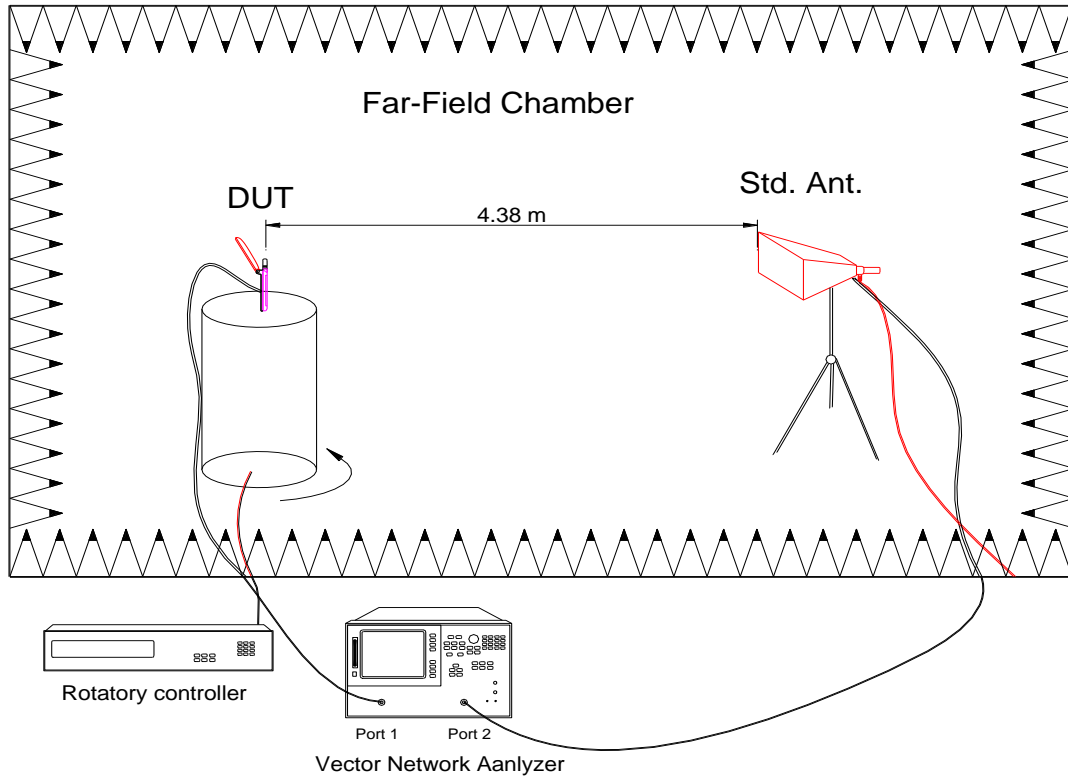
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## 2-4.1 Measure method

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 Gain and Efficiency

Freq	Efficiency_dB	Efficiency_Pcent	Freq	Efficiency_dB	Efficiency_Pcent
1560	-2.61	54.89	2400	-3.41	45.59
1570	-2.56	55.46	2420	-3.25	47.27
1580	-2.59	55.12	2440	-2.96	50.55
1590	-2.51	56.05	2460	-2.83	52.14
1600	-2.58	55.24	2480	-2.4	57.58
1610	-2.7	53.76	2500	-2.25	59.55
1620	-3.06	49.44			

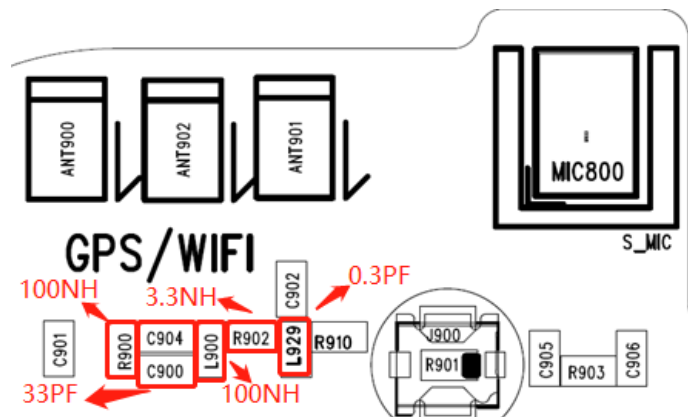
Wifi2.4-2.5Mhz

Gain

1.6

### 2-4.4 OTA and Boom/Switch

WIPI									
802.11b	1Mbps	TRP	1	16.04	802.11gn	MCS0	TRP	1	13.3
			6	17.09				6	13.49
			11	16.52				11	14.15
	11Mbps	TIS	1	-84.02		MCS0	TIS	1	-87.29
			6					6	
			11	-84.72				11	-88.3
802.11g	6Mbps	TRP	1	13.18	802.11gn	MCS7	TRP	1	10.22
			6	13.22				6	10.9
			11	13.94				11	11.13
	54Mbps	TIS	1	-70.54		MCS7	TIS	1	-68.37
			6					6	
			11	-70.94				11	-68.62
GPS		TIS	-153		CNO	40.73			



### 3. Antenna Dimensions:(unit:mm)

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ANGLES=±

HOLEDIA=±

SCALE :

UNIT : mm

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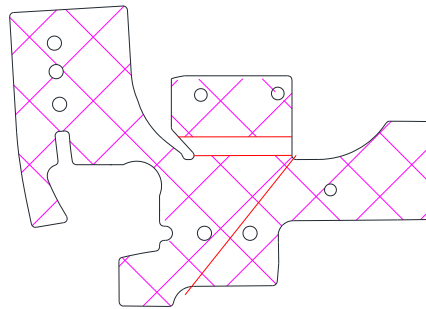
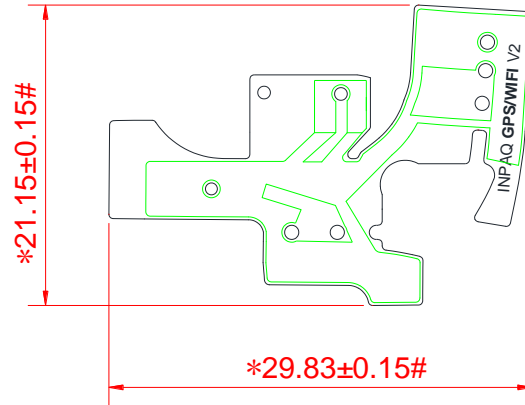
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