

[illegible]

## B.1.01.L.1282      Specification

### 1. Explanation of part number :

B.1        :        01        :        L        :        1282  
(1)                (2)                (3)                (4)

(1) Product Type : Wireless Antenna

(2) Material : FPC

(3) State : DVT

(4) Serial number:1282

### 2. Electrical Specification :

#### 2-1. Frequency Band:

Frequency Band	MHz
GPS,WIFI	1575.42Mhz , 2400-2500Mhz,5150-5850Mhz

#### 2-2. Impedance

50 ohm nominal

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2                X.X=±0.1                X.XX=±0.05

ANGLES=±                HOLEDIA=±



浙江海通通讯电子股份有限公司

SCALE :

UNIT : mm

DRAWN BY : 张有远

CHECKED BY : 郑由强

DESIGNED BY : 郑由强

APPROVED BY: 周振邦

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PAGE REV.

A0

2-3. S11 ,Efficiency , and Active Data :

2-3.1 S11:

Frequency Band	1575.42	2400	2500																	
2-3-1. Typical Value:	-13.6	-13.5	-14.1																	
2-3-2Measuring Method	<div>1. A 50Ω coaxial cable is connected to the fpcb antenna. Then this cable is connected to a network analyzer to measure the VSWR.</div> <div>2. Keeping this jig away from metal at least 20 cm.</div>																			
2-3-3Picture	<div><div>S22 Log Mag 5.000GHz/ Ref 0.000GHz [F1.W]</div><div><table><tr><td>1</td><td>2.4000000</td><td>GHz</td><td>-13.653</td><td>dB</td></tr><tr><td>2</td><td>2.5000000</td><td>GHz</td><td>-13.536</td><td>dB</td></tr><tr><td>&gt;3</td><td>1.5754200</td><td>GHz</td><td>-14.182</td><td>dB</td></tr></table></div><div></div></div>					1	2.4000000	GHz	-13.653	dB	2	2.5000000	GHz	-13.536	dB	>3	1.5754200	GHz	-14.182	dB
1	2.4000000	GHz	-13.653	dB																
2	2.5000000	GHz	-13.536	dB																
>3	1.5754200	GHz	-14.182	dB																

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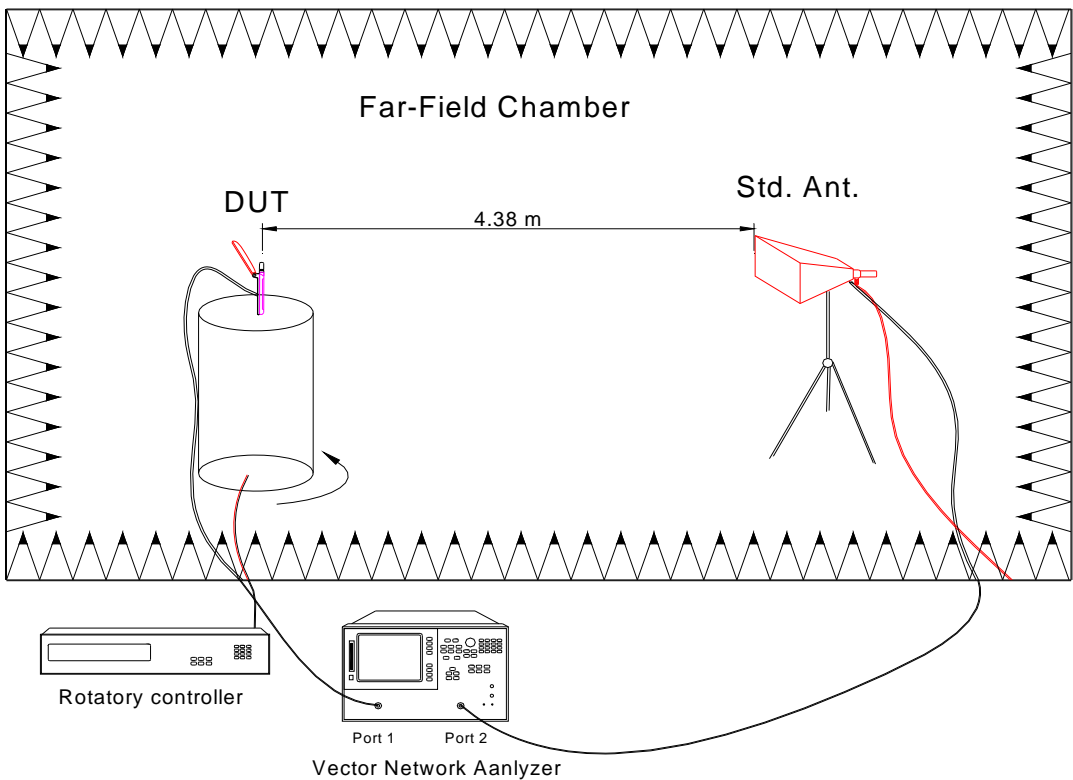
PAGE REV.  
A0

## 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 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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PAGE REV.

A0

### 2-4-3 Antenna Efficiency

Frequency	Efficiency	Efficiency (dB)	Gain (dBi)
1550	41%	-3.8	2.0
1555	41%	-3.8	2.0
1560	42%	-3.8	2.1
1565	42%	-3.8	2.0
1570	42%	-3.7	2.0
1575	42%	-3.8	1.9
1580	42%	-3.8	1.8
1585	41%	-3.8	1.8
1590	41%	-3.9	1.7
1595	40%	-3.9	1.8
1600	39%	-4.1	1.7
2400	44%	-3.6	1.0
2410	45%	-3.5	1.2
2420	47%	-3.3	1.3
2430	47%	-3.3	1.3
2440	47%	-3.3	1.3
2450	47%	-3.3	1.2
2460	48%	-3.2	1.4
2470	48%	-3.2	1.4
2480	47%	-3.2	1.5
2490	47%	-3.3	1.3
2500	48%	-3.2	1.4

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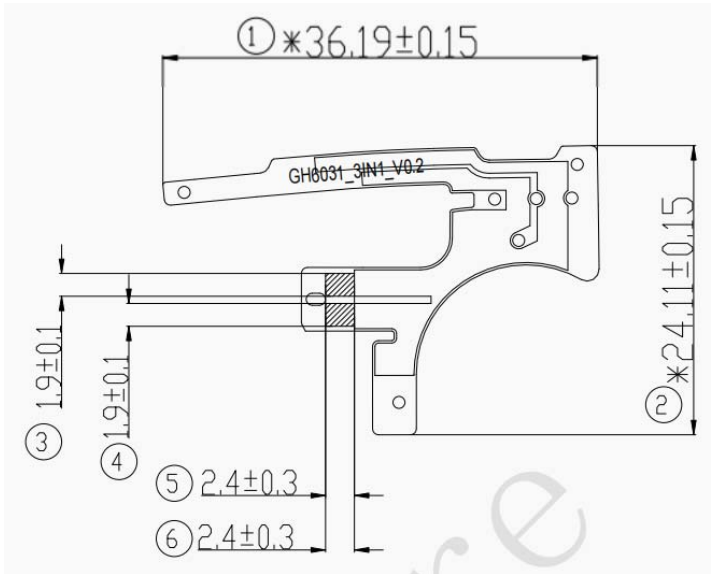
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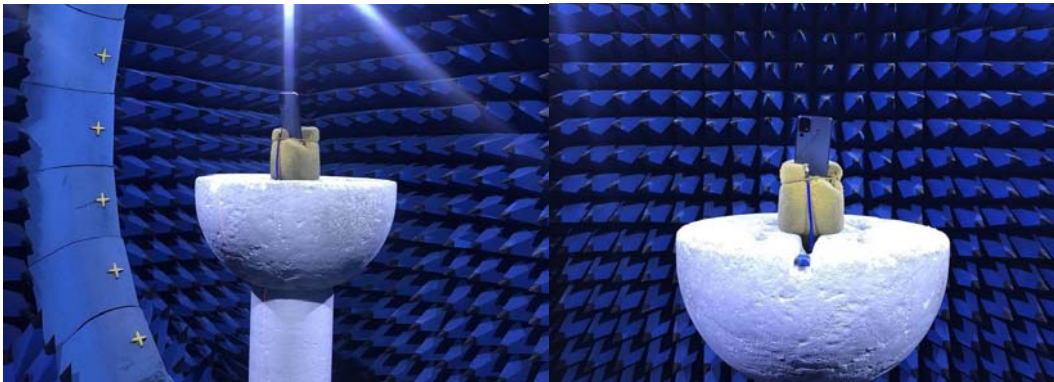
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3. Antenna Dimensions:



4. Testing Environment

Passive Test



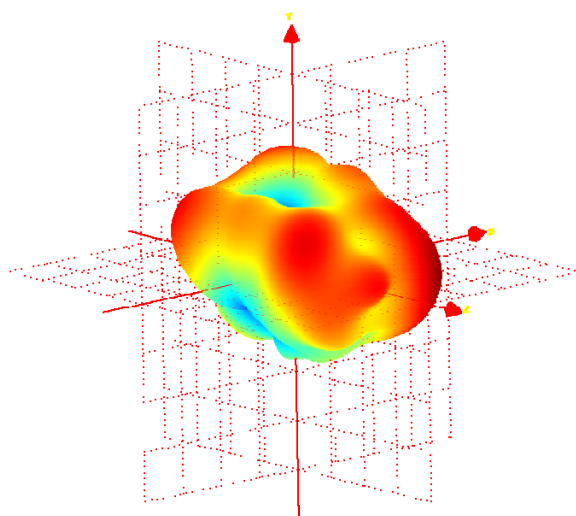
Active Test

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## 5. 3D Radiation Pattern

GPS [1575MHz]



BT/WiFi 2.4GHz [2400MHz]

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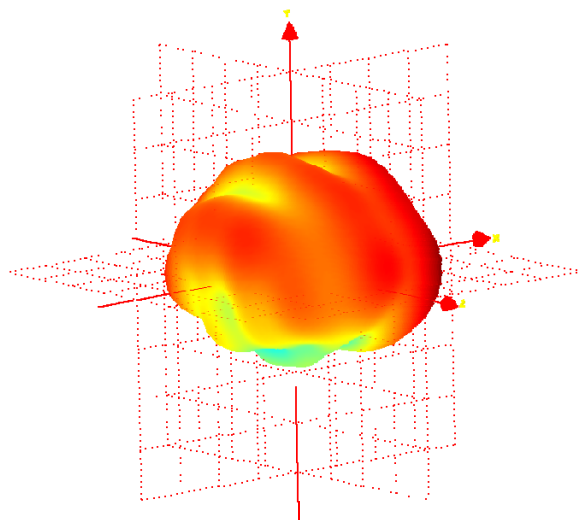
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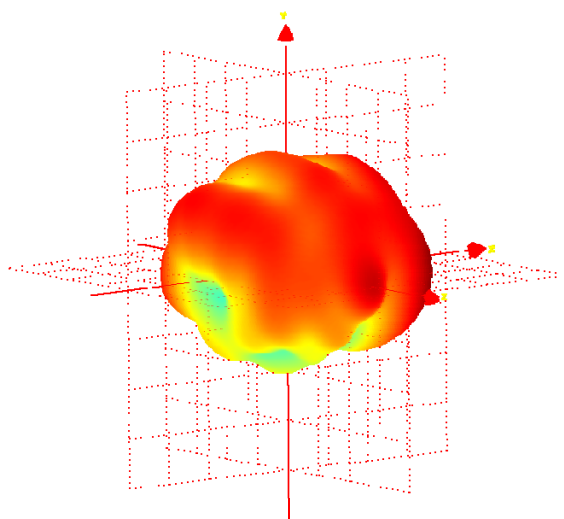
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BT/WiFi 2.4GHz [2500MHz]



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