

[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=±

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海通通讯

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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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	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	<div><div>S22 Log Mag 5.000dB/ Ref 0.000dB [F1 M]</div><table><tr><td>1</td><td>2.4000000 GHz</td><td>-13.633 dB</td></tr><tr><td>2</td><td>2.5000000 GHz</td><td>-13.536 dB</td></tr><tr><td>>3</td><td>1.5754200 GHz</td><td>-14.182 dB</td></tr></table></div>					1	2.4000000 GHz	-13.633 dB	2	2.5000000 GHz	-13.536 dB	>3	1.5754200 GHz	-14.182 dB
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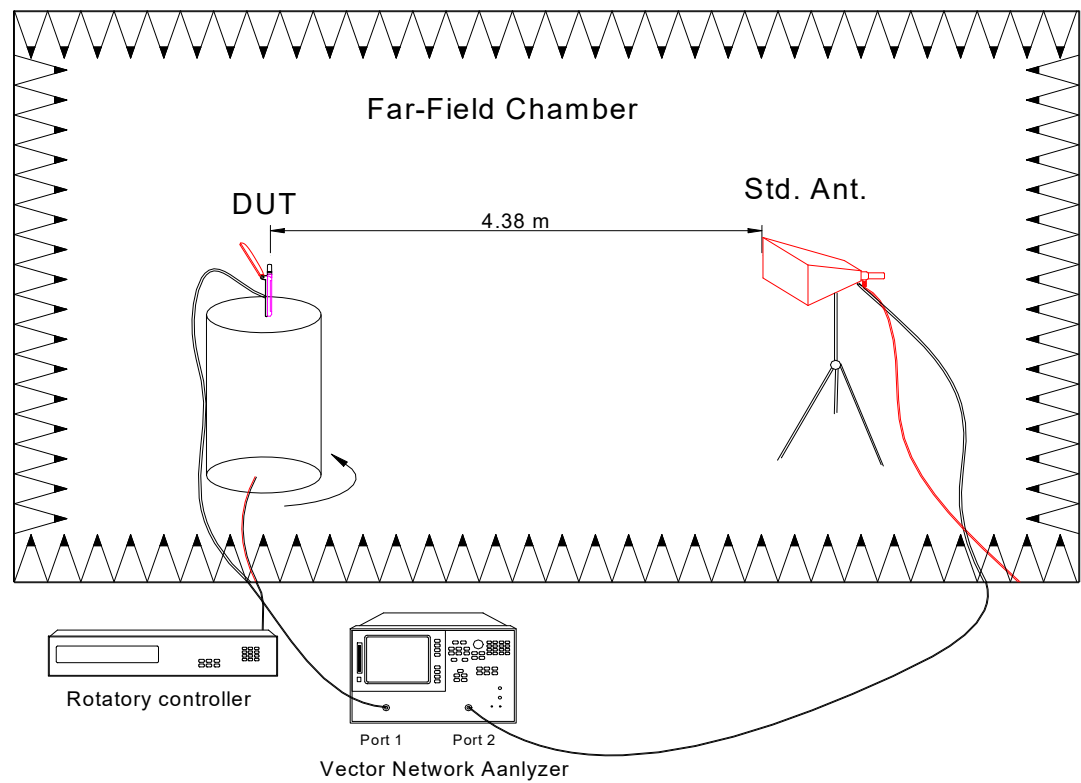
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2-4. Measure and Chamber

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)

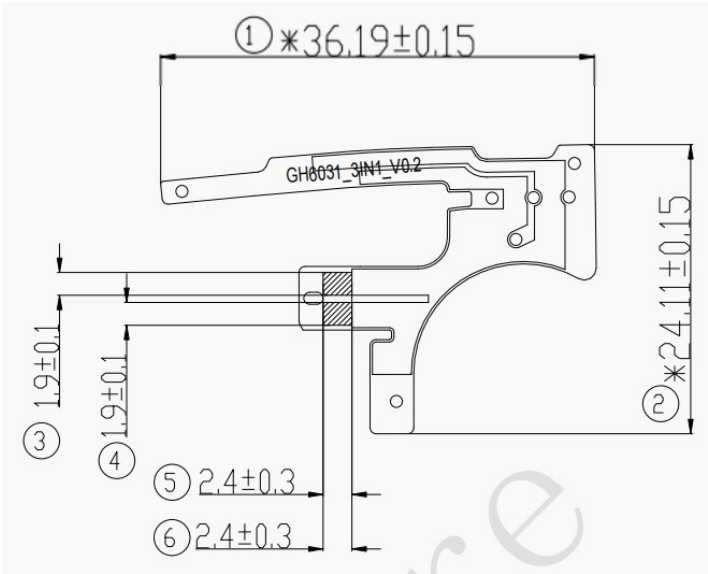
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2-4-3 Antenna Efficiency

Frequency	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

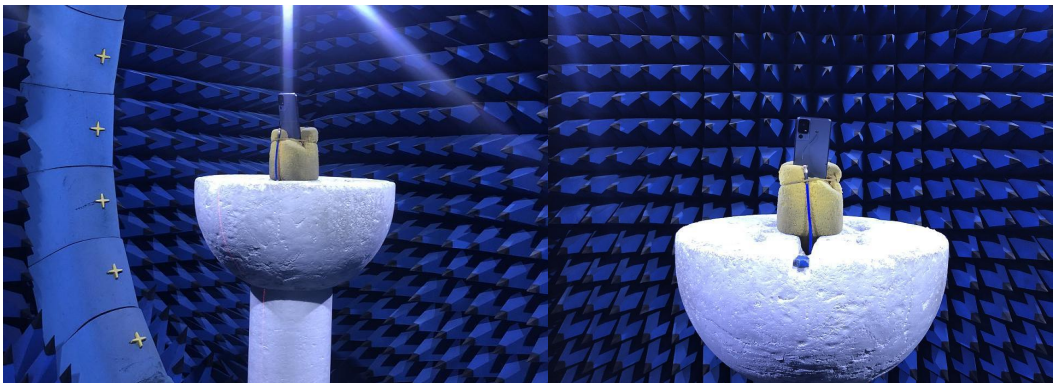
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3. Antenna Dimensions:

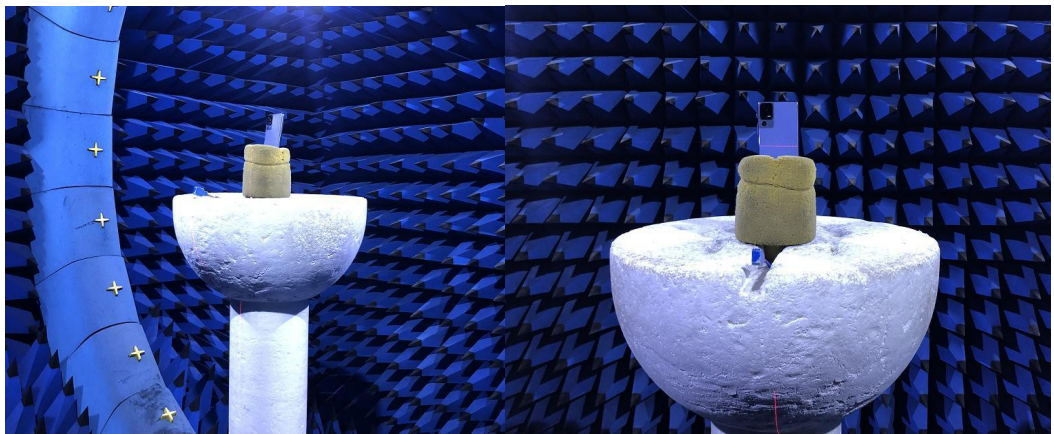


4. Testing Environment

Passive Test

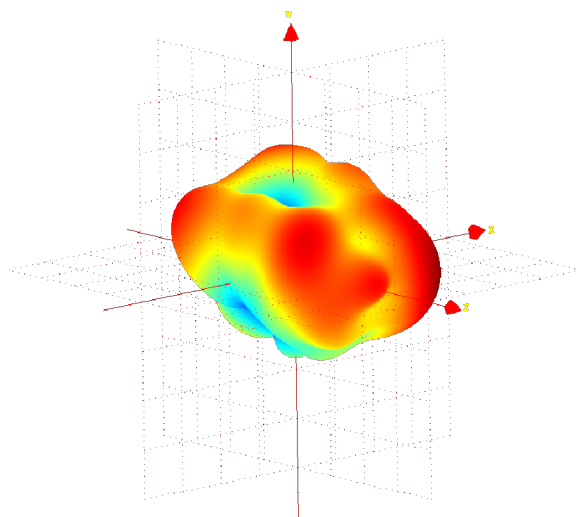


Active Test

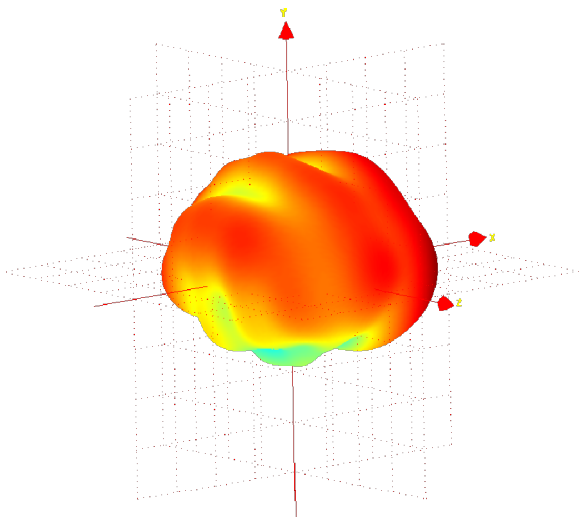


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5. 3D Radiation Pattern
GPS [1575MHz]

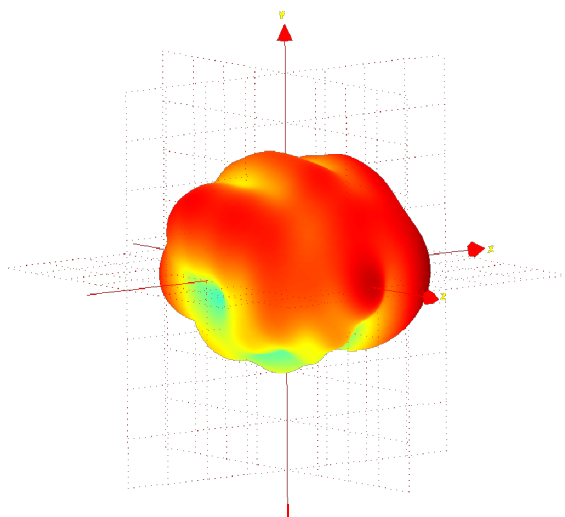


BT/WiFi 2.4GHz [2400MHz]



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BT/WiFi 2.4GHz [2500MHz]



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