



B.1.01.Y.1016 Specification

1. Explanation of part number :

B.1 : 01 : Y : 1016
(1) (2) (3) (4)

(1) Product Type : Wireless Antenna

(2) Material : FPC

(3) State : DVT

(4) Serial number:1016

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
GPS,WIFI,BT	1575.42Mhz , 2400-2500Mhz

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 : 程国富

CHECKED BY : 王亮亮

DESIGNED BY : 王亮亮

APPROVED BY: 吕鸿乐

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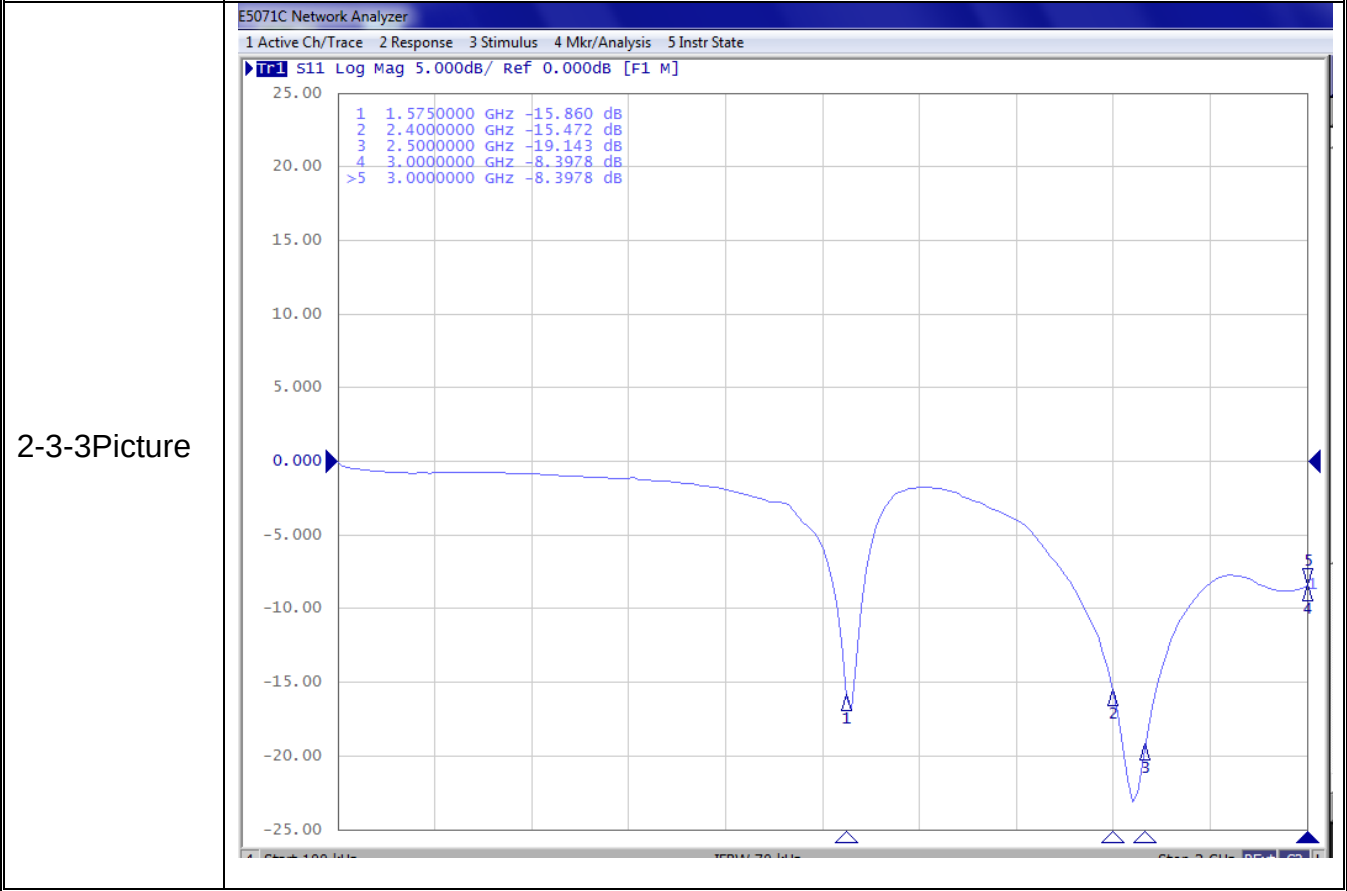
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2-3. S11 ,Efficiency , and Active Data:

2-3.1 S11:

Frequency Band	1575.42	2400	2500
2-3-1. Typical Value:	-15.8	-15.5	-19.1

2-3-2Measuring 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.
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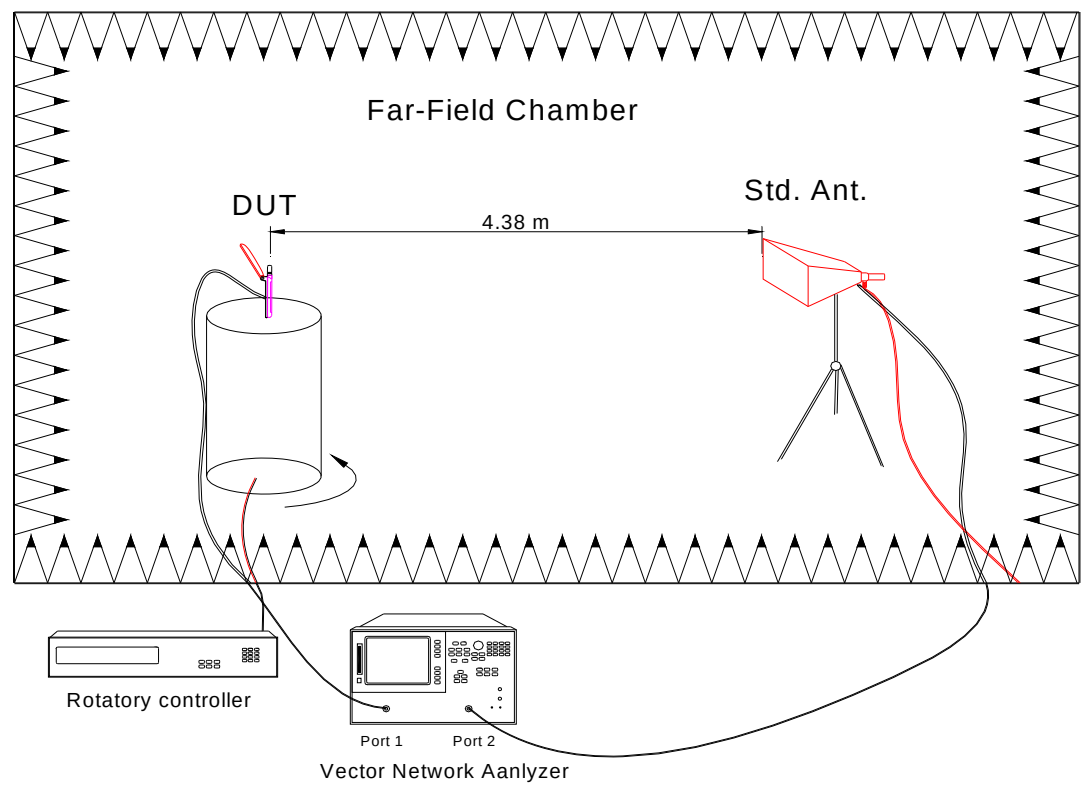
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2-4. Measure and Chamber

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 GPS&2.4GWIFI Antenna Efficiency

Frequency	Efficiency	Efficiency(dB)	Gain(dBi)
1550	27%	-5.64	-1.62
1555	28%	-5.55	-1.54
1560	28%	-5.50	-1.52
1565	28%	-5.51	-1.52
1570	28%	-5.46	-1.42
1575	29%	-5.41	-1.40
1580	30%	-5.28	-1.37
1585	30%	-5.25	-1.33
1590	30%	-5.19	-1.18
1595	29%	-5.34	-1.38
1600	26%	-5.81	-1.79
2400	27%	-5.65	-1.64
2410	28%	-5.56	-1.58
2420	28%	-5.56	-1.56
2430	28%	-5.44	-1.41
2440	28%	-5.47	-1.44
2450	29%	-4.98	-1.16
2460	29%	-4.76	-0.94
2470	29%	-4.82	-1.05
2480	29%	-5.34	-1.38
2490	28%	-5.44	-1.42
2500	27%	-5.57	-1.59

2-4-4 BT Antenna Efficiency

2400	27%	-5.65	-1.64
2410	28%	-5.56	-1.58
2420	28%	-5.56	-1.56
2430	28%	-5.44	-1.41
2440	28%	-5.47	-1.44
2450	29%	-4.98	-1.16
2460	29%	-4.76	-0.94
2470	29%	-4.82	-1.05
2480	29%	-5.34	-1.38
2490	28%	-5.44	-1.42
2500	27%	-5.57	-1.59

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HOLEDIA=±



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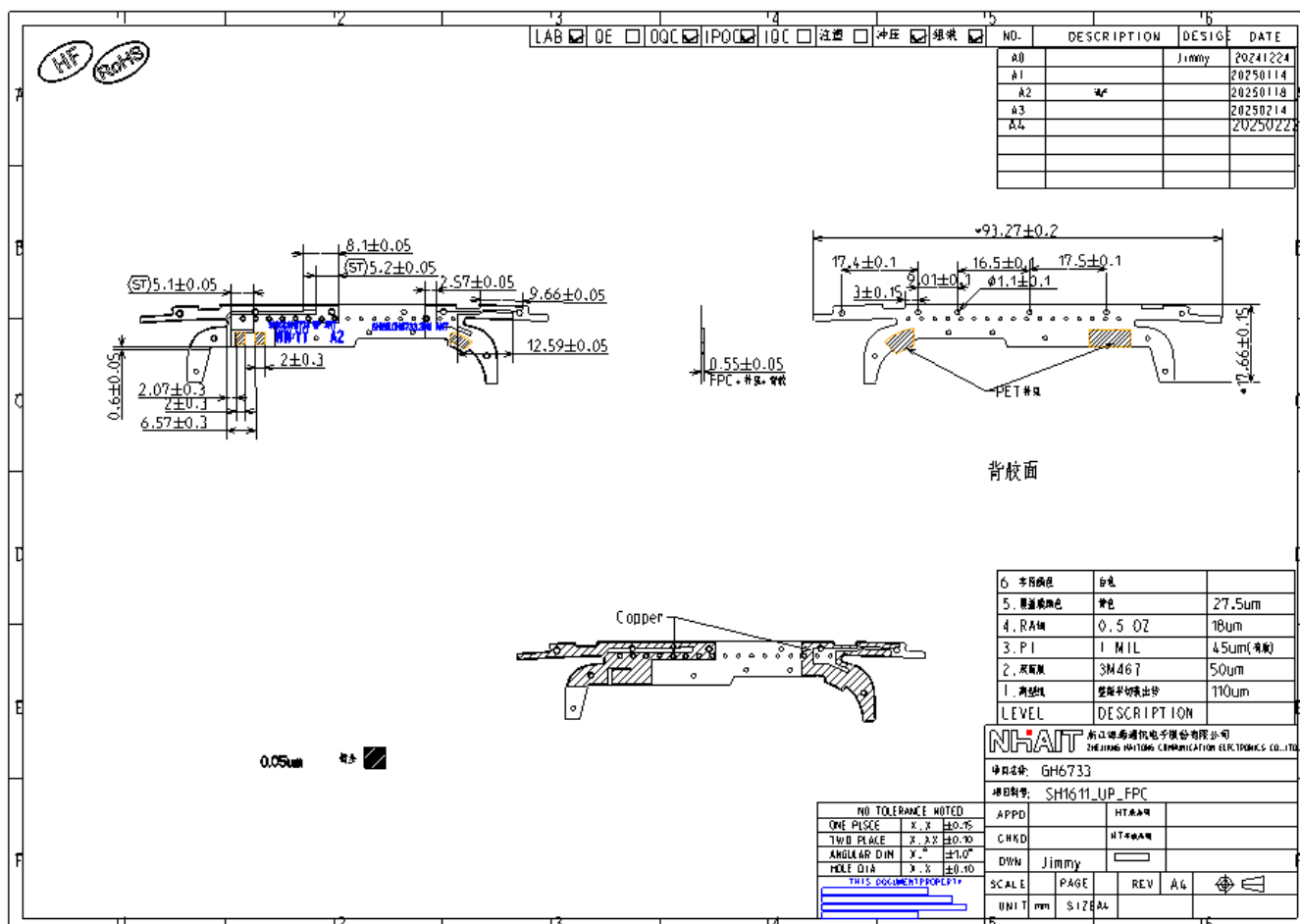
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3. Antenna Dimensions:



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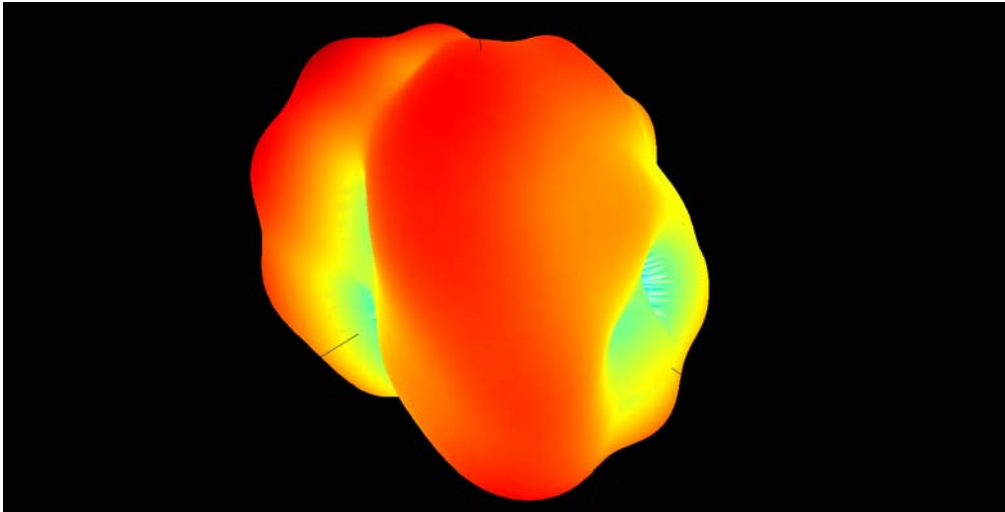
Passive Test



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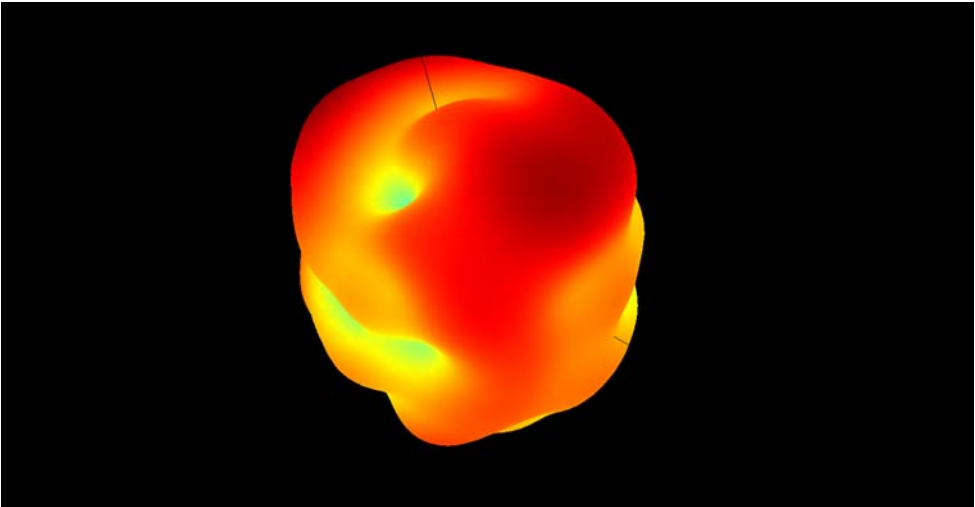
5. 3D Radiation Pattern

GPS [1575MHz]

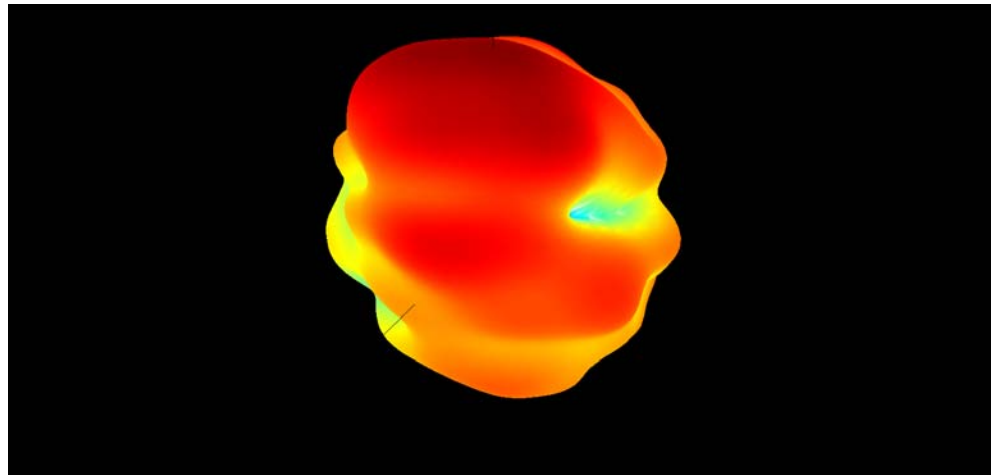


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BT/WiFi 2.4GHz C0 [2400MHz]



BT/WiFi 2.4GHz C0 [2483MHz]



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