

KC.DA.00259**Antenna Specification****1. Application:**

This application shall apply for antenna unit which shall be used such as automotive, conventional communications, smart home, etc..

2.Electrical Specification:

Those specifications were specially defined for customer's model, and all characteristics were measured under the model's handset testingjig .

2-1. Frequency Band:

Frequency Band	MHz
4G+WiFi	700~960/1710~2690/5150~5850MHz

2-2. Impedance

50 ohm nominal

2-3. VSWR**2-3-1.Measurement frequency points and VSWR value**

Frequency Band(MHz)	700	960	1710	2400	2500	2690	5150	5850
Typical Value: (VSWR)	2.7	1.7	1.7	1.7	1.5	1.9	1.6	2.2

UNLESS OTHER SPECIFIED TOLERANCES ON :
X=± **X.X=±** **X.XX=±**
ANGLES=± **HOLEDIA=±**

SCALE : **UNIT : mm**

DRAWN BY: LI **CHECKED BY:** YS

DESIGNED BY: De wen **APPROVED BY:** YS

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2-3-4 Measuring Method	<ol style="list-style-type: none"> 1. A 50Ωcoaxial cable is connected to the 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 																		
2-3-5 Picture	 <table border="1" data-bbox="408 548 718 672"> <thead> <tr> <th>Freq (MHz)</th> <th>VSWR</th> </tr> </thead> <tbody> <tr><td>700.00000</td><td>2.7800</td></tr> <tr><td>960.00000</td><td>1.7536</td></tr> <tr><td>1.7100000</td><td>1.7288</td></tr> <tr><td>2.4000000</td><td>1.7031</td></tr> <tr><td>2.5000000</td><td>1.5793</td></tr> <tr><td>2.6900000</td><td>1.9826</td></tr> <tr><td>5.1500000</td><td>1.6065</td></tr> <tr><td>5.8500000</td><td>2.2166</td></tr> </tbody> </table>	Freq (MHz)	VSWR	700.00000	2.7800	960.00000	1.7536	1.7100000	1.7288	2.4000000	1.7031	2.5000000	1.5793	2.6900000	1.9826	5.1500000	1.6065	5.8500000	2.2166
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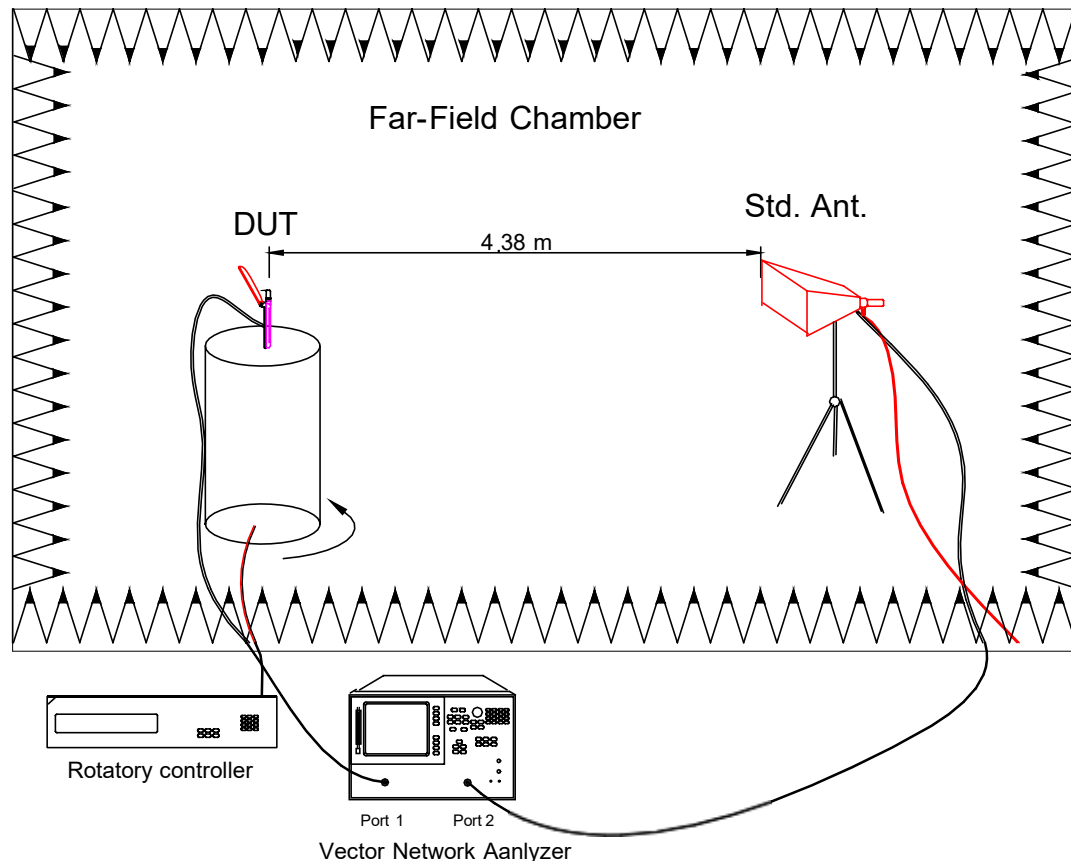
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2-4. Efficiency and Gain


4-5.1 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

4-5.2 Chamber definition

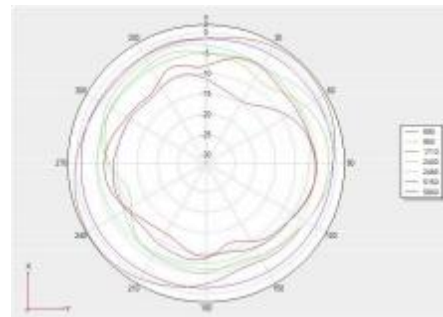
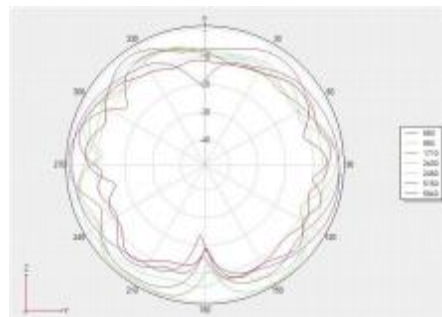
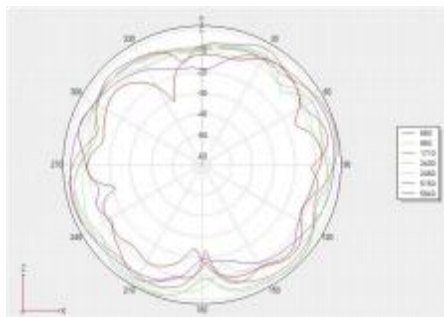
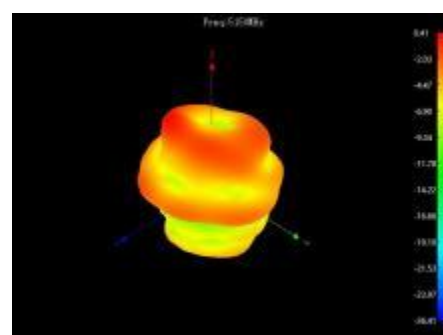
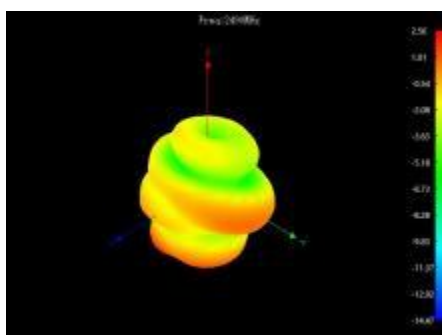
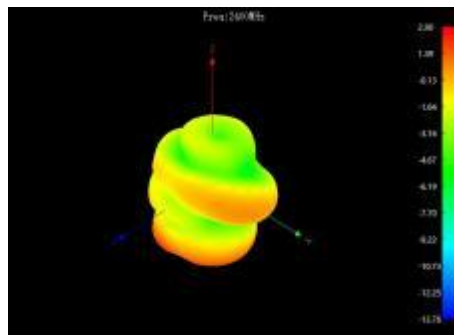
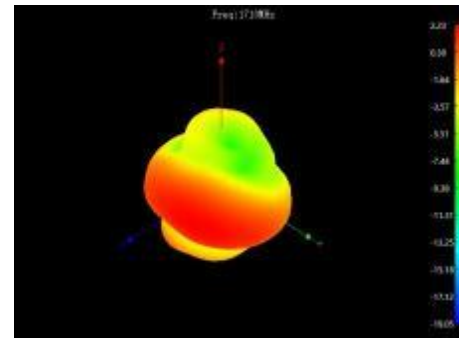
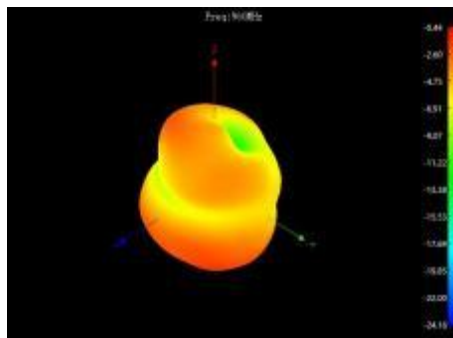
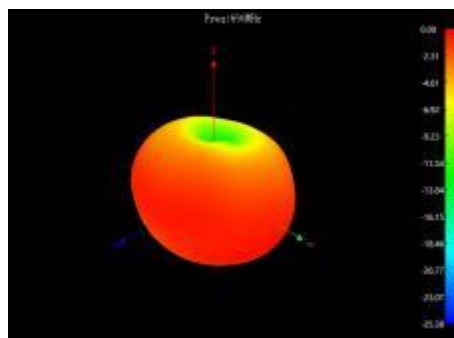


1. An anechoic chamber (7mx4mx3m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quiet room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

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2-4-1 Efficiency and Gain and 3D Date

Frequency/Mhz	MaxGain/dBi	Efficiency / %
690	0	32.51
750	0.11	37.59
820	1.43	42.03
880	1.33	45.23
960	0.44	38.28
1710	2.23	48.31
1980	1.04	44.87
2400	2.9	46.67
2490	2.56	48.53
2670	1.5	44.36
5150	1.41	44.11
5270	1.17	42.73
5510	0.22	43.02
5840	0.41	42.74



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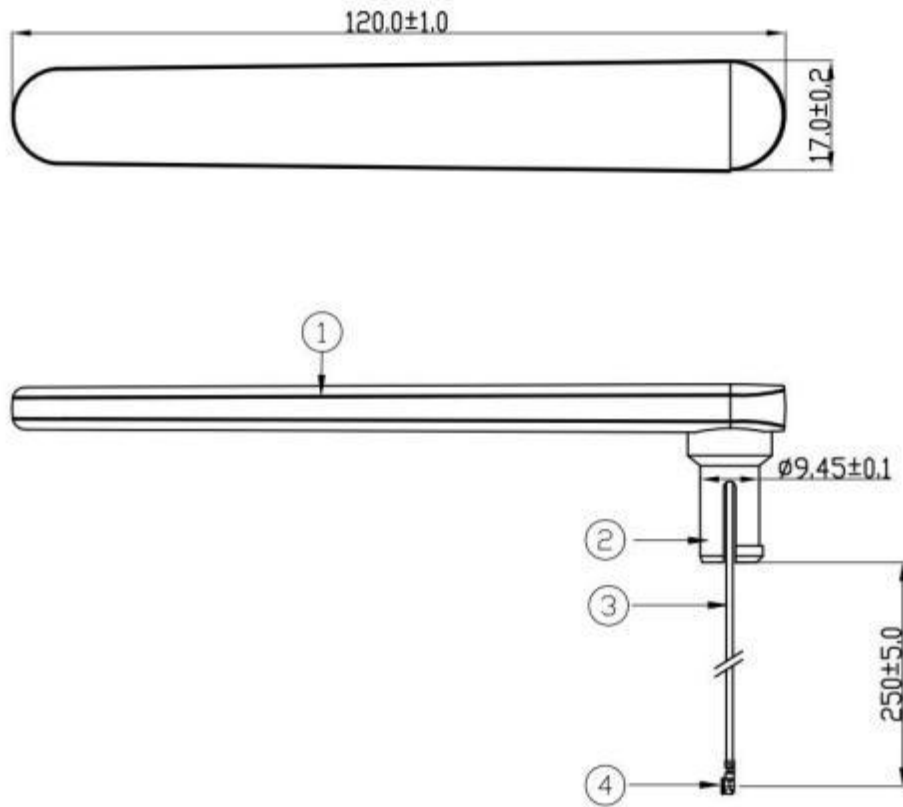
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3. Mechanical Specification:

3-1. Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing



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4 .Packaging specification:

Product number: xxxxx

Product model: xxxxx

一、 Label requirements:

Customer	xxx		
supplier	xxxxx		
Material coding	xx		
Product model	xx		
Number	XXX PCS	Factory date	X X X
Remarks			

二、 Boxing:

Job description:

1. Inner packaging:

XXpcs A bag

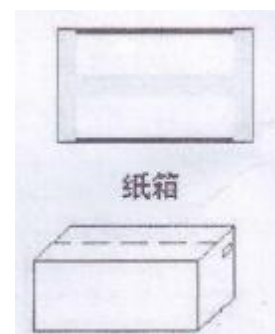
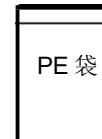
2. External packaging:

Xx PCS ;

3. Matters needing attention:

a . Whether to add partition and pearl cotton;

b . Label attachments, such as ROHS, etc.;



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