

KC.DA.00265

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 testing jig .

2-1. Frequency Band:

Frequency Band	MHz
WiFi	2400-2500/5150-5850MHz

2-2. Impedance

50 ohm nominal

2-3. VSWR

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

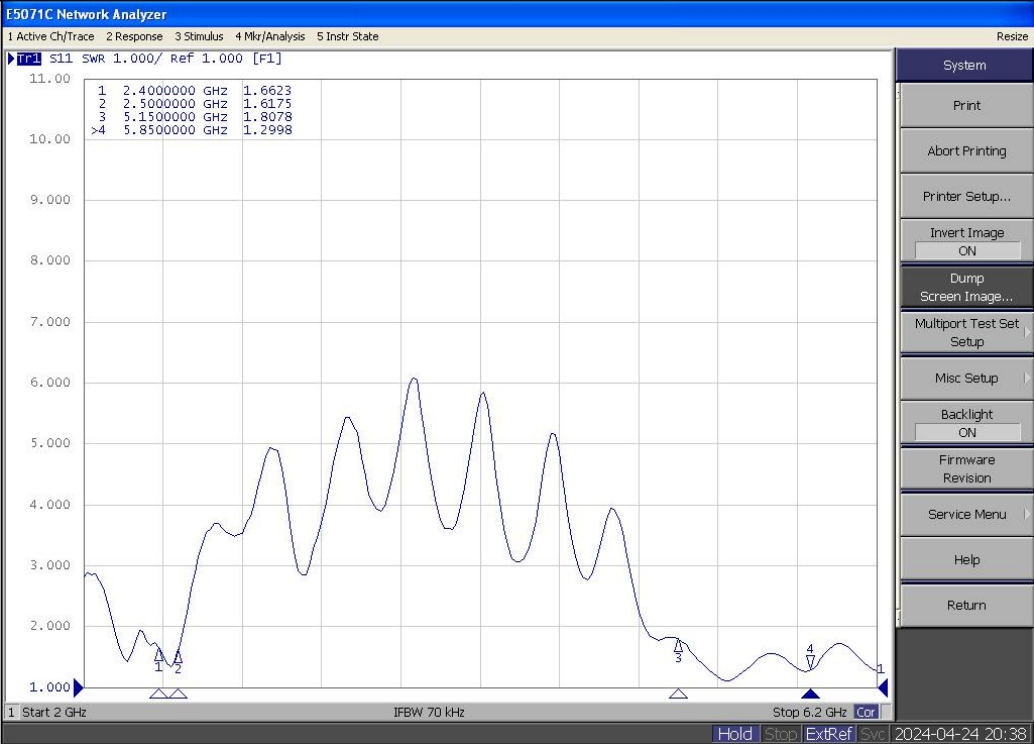
Frequency Band(MHz)	2400	2500	5150	5850
Typical Value: (VSWR)	1.6	1.6	1.8	1.2

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2-3-4 Measuring Method

1. A 50Ω coaxial 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



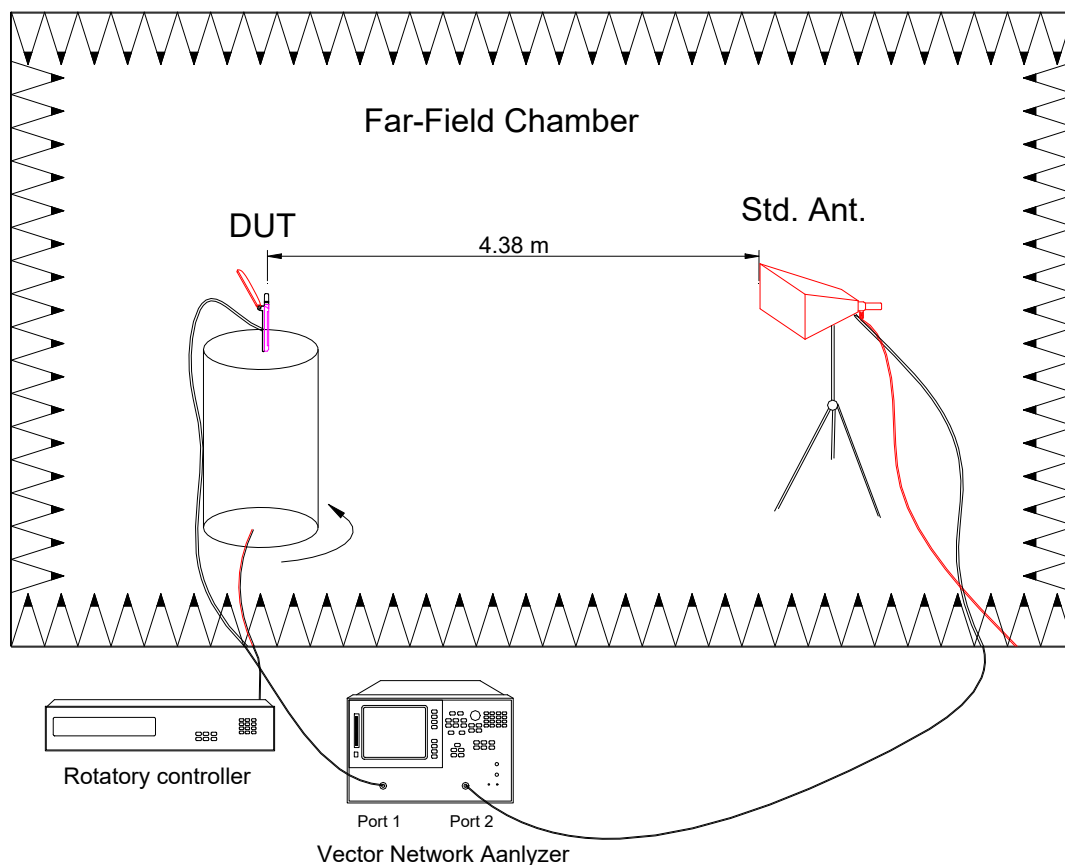
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2-4. Efficiency and Gain

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 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

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

Frequency/MHz	Efficiency / %	MaxGain/dBi	Frequency/MHz	Efficiency / %	MaxGain/dBi
2400	51.88	2.76	5390	55.72	2.28
2410	54.95	3.06	5410	54.95	1.87
2420	54.2	3.03	5430	55.72	1.59
2430	55.21	3.11	5450	59.16	1.58
2440	56.75	3.2	5470	63.24	1.84
2450	57.94	2.67	5490	62.52	1.67
2460	57.28	2.62	5510	61.8	1.43
2470	58.61	2.51	5530	60.26	1.27
2480	60.12	2.58	5550	58.34	1.23
2490	63.53	2.59	5570	56.89	1.27
2500	63.68	2.33	5590	58.75	1.46
			5610	59.7	1.69
5150	51.88	1.09	5630	60.53	1.58
5170	53.7	1.29	5650	58.75	1.32
5190	54.58	1.35	5670	56.89	1.2
5210	56.49	1.65	5690	52.84	1.04
5230	55.85	1.71	5710	51.05	1.03
5250	52.97	1.54	5730	47.1	0.62
5270	51.17	1.54	5750	47.1	0.86
5290	53.09	1.9	5770	49.2	1.32
5310	54.2	2.22	5790	51.29	1.45
5330	54.2	2.31	5810	48.98	1.11
5350	53.95	2.16	5830	50.82	1.31
5370	54.58	2.21	5850	51.76	1.51

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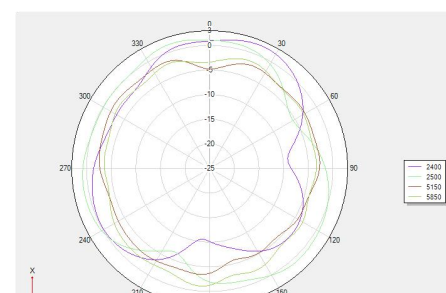
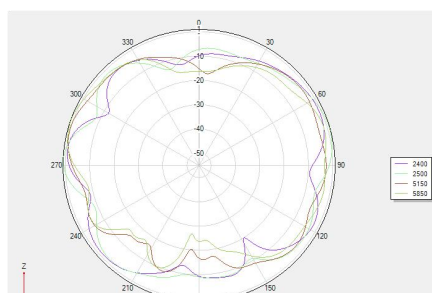
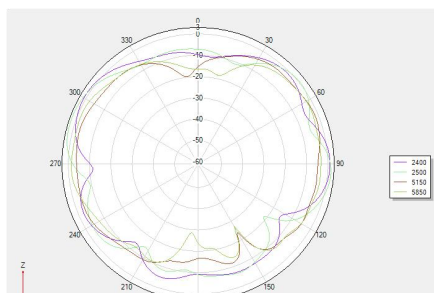
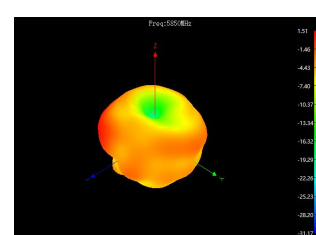
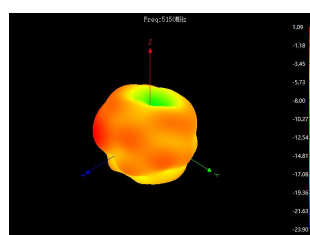
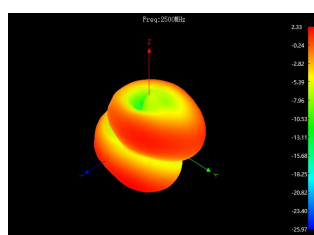
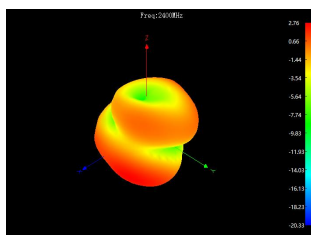
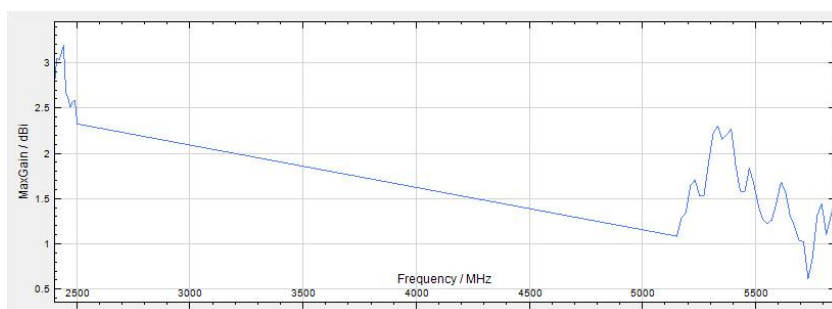
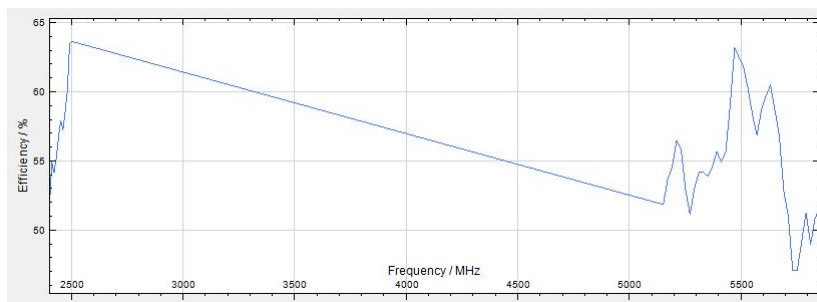
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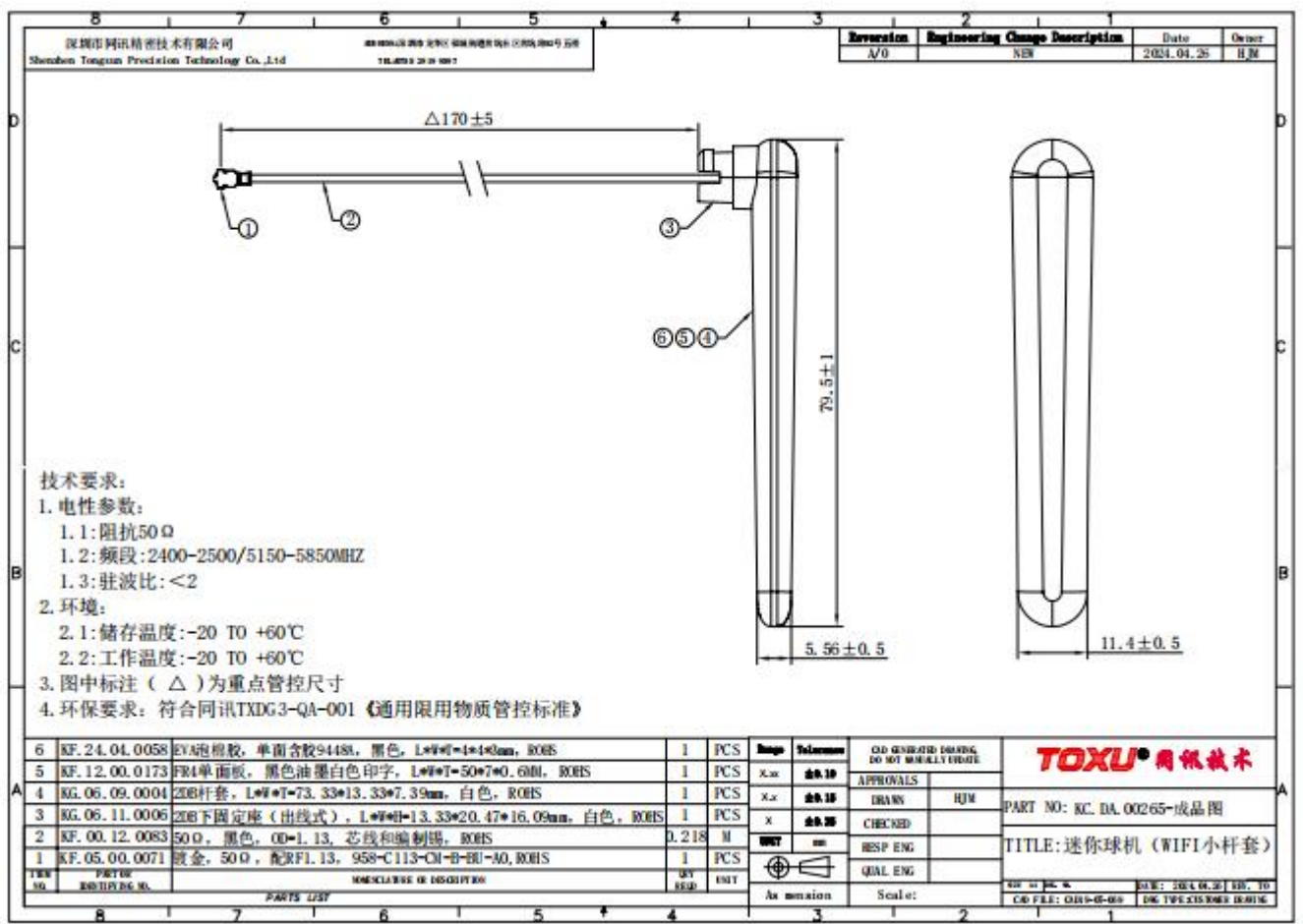
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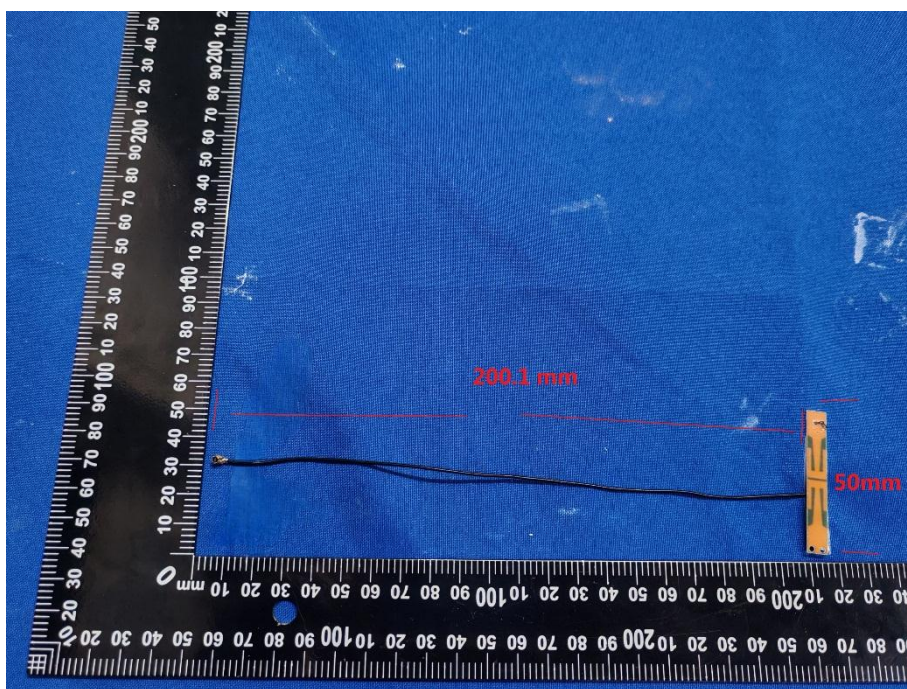
3. Mechanical Specification:

3-1. Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing

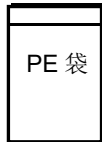


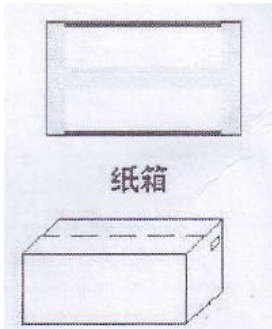
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4 .Packaging specification:

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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