KC.IA.00474

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

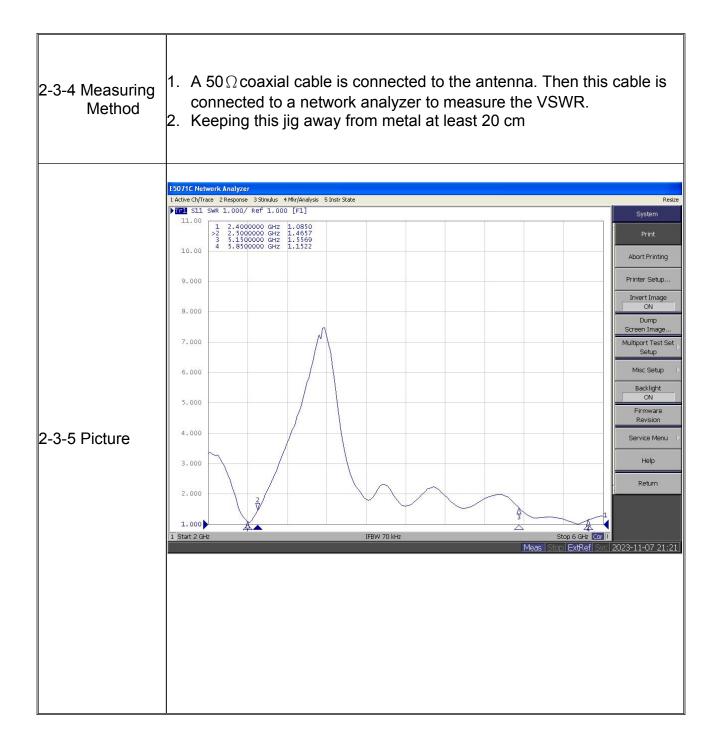
50 ohm nominal

2-3. VSWR

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

Frequency Band(MHz)	2400	2500	5150	5850
Typical Value: (VSWR)	1.1	1.4	1.5	1.1

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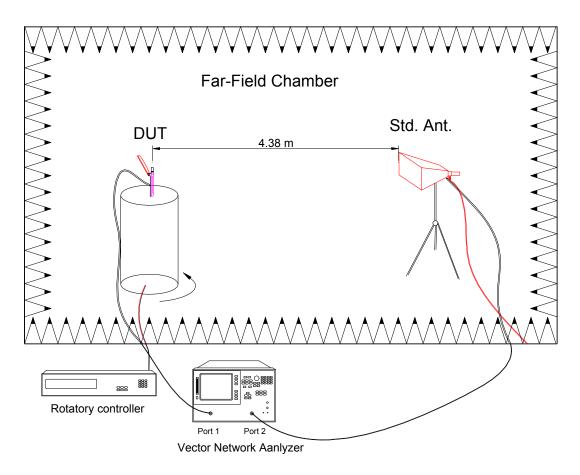


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2-4. Efficiency and Gain

- 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

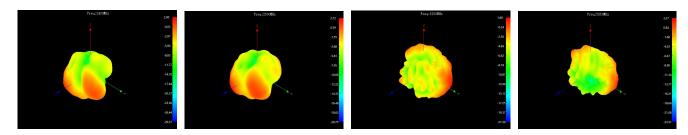


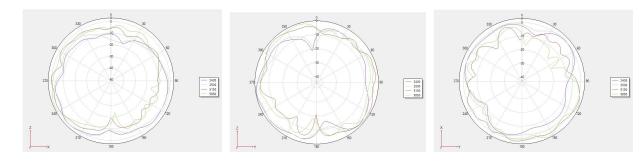
- 1. An anechoic chamber (7mx4mx3m) which satisfied far-field condition was applied to avoid multi-path effect
- 2. The quite room region is 40cmx40cmx40cm at the center of rotator
- 3. The distance between DUT and standard antenna is 4.38 m
- Probing antenna (9120D horn antenna) and standard gain horn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

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Frequency/Mhz	MaxGain/dBi	Efficiency / %	
2400	2.9	47.42	
2410	3.57	49.32	
2420	3.21	50.47	
2430	3.46	48.31	
2440	2.76	45.71	
2450	3.2	55.72	
2460	2.95	55.72	
2470	2.7	54.45	
2480	3.22	58.75	
2490	2.55	57.81	
2500	2.72	56.89	
5150	1.89	46.24	
5190	1.8	49.66	
5230	1.83	49.77	

Frequency/Mhz	MaxGain/dBi	Efficiency / %
5270	1.57	49.66
5310	2.27	53.7
5350	2.49	56.1
5390	2.75	53.33
5430	2.66	50.82
5470	2.86	50.82
5510	2.71	49.77
5550	3.07	50.7
5590	2.79	48.87
5630	2.97	48.08
5670	3.5	47.1
5710	3.46	46.99
5750	3.53	46.56
5790	3.06	44.77
5830	3.38	50.35
5850	3.27	50.23





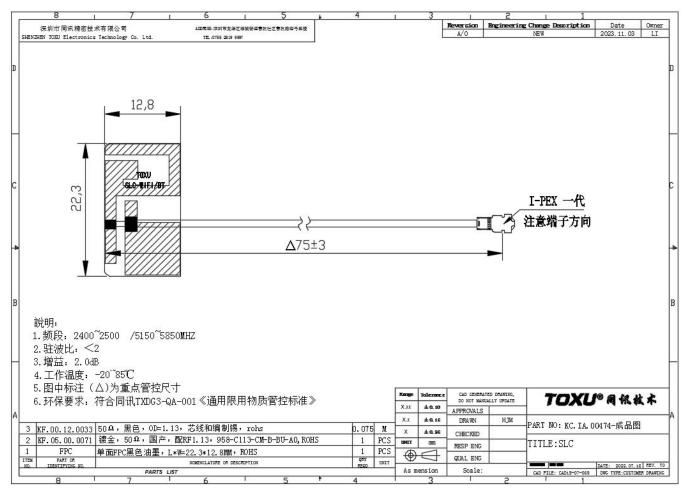


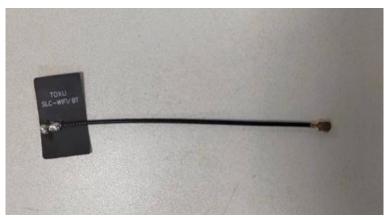
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3. Mechanical Specification:

3-1. Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing





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4 .Packaging specification:

Product	model: x	XXXX			
─、 Labe	el requirem	ents:			
Custor	ner	xxx			
supplie	er	xxxxx	xxxxx		
Materia	al coding	xx	xx		
Produc	t model	xx			
Numbe	er	XXX PCS	Factory date	ХХХ	
Remar	ks				
二、Box Job de	ing: escription:				
1. Inner	packaging:			PE 袋	
XXpcs	A bag				
2. Extern	al packagi	ng:			
Xx P0	CS;				
3. Matter	s needing	attention:			
a. Wh	ether to ad	ld partition and	pearl cotton;	纸箱	
b. Lal	oel attachm	nents, such as F	ROHS, etc.;		
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