

KC.IA.00284

Antenna Specification

1. Application:

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

1. 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
WIFI2.4G/5.8G	2400-2500/5150-5850

2-2. Impedance

50 ohm nominal


2-3. VSWR

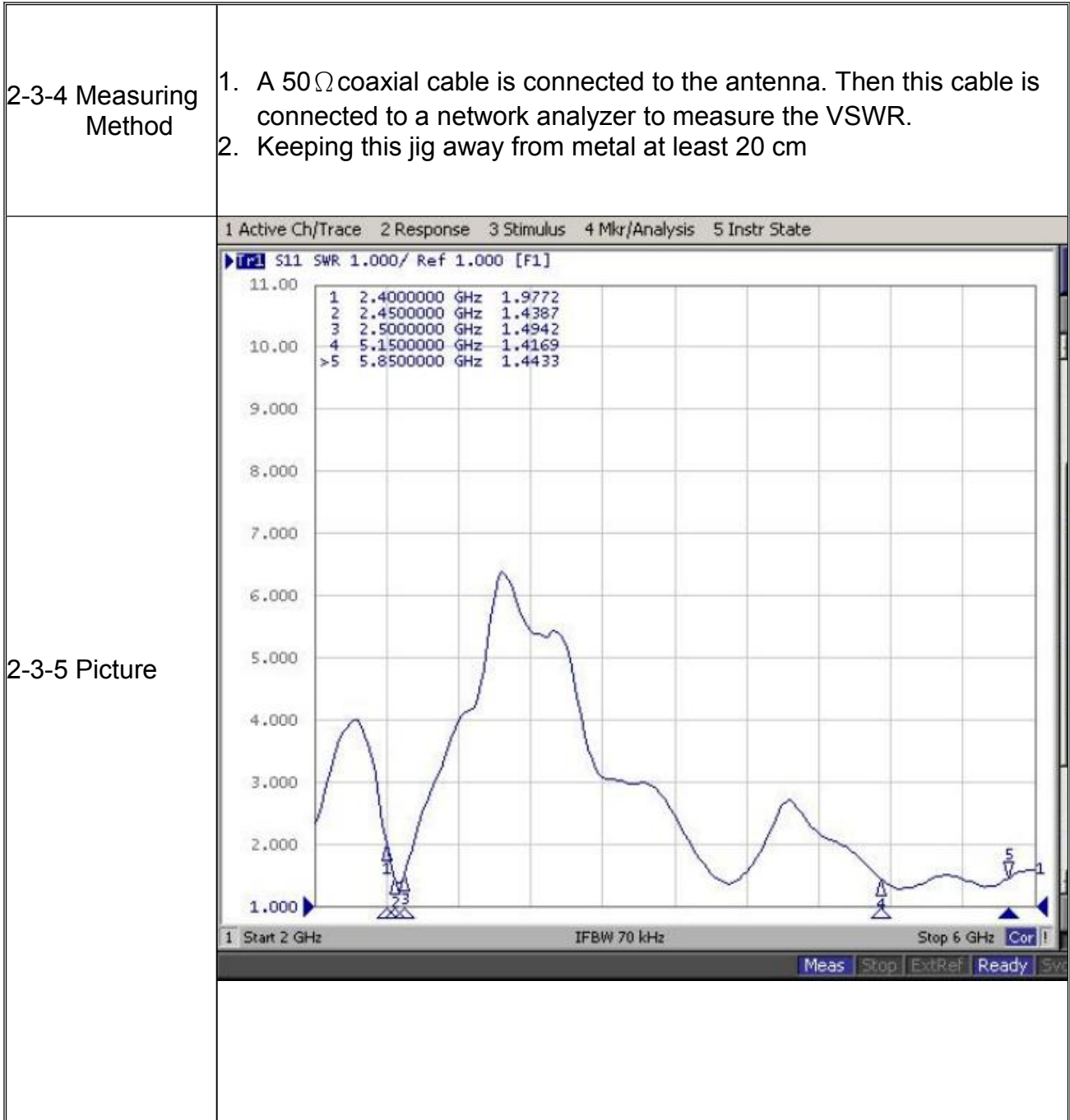
2-3-1.Measurement frequency points and VSWR value

Frequency Band(MHz)	2400	2450	2500	5150	5850
2-3-3. Typical Value:	1.97	1.43	1.49	1.43	1.44

2-3-2. VSWR

Frequency Band(MHz)	2400	2450	2500	5150	5850
2-3-3. Typical Value:	≤2	≤2	≤2	≤2	≤2

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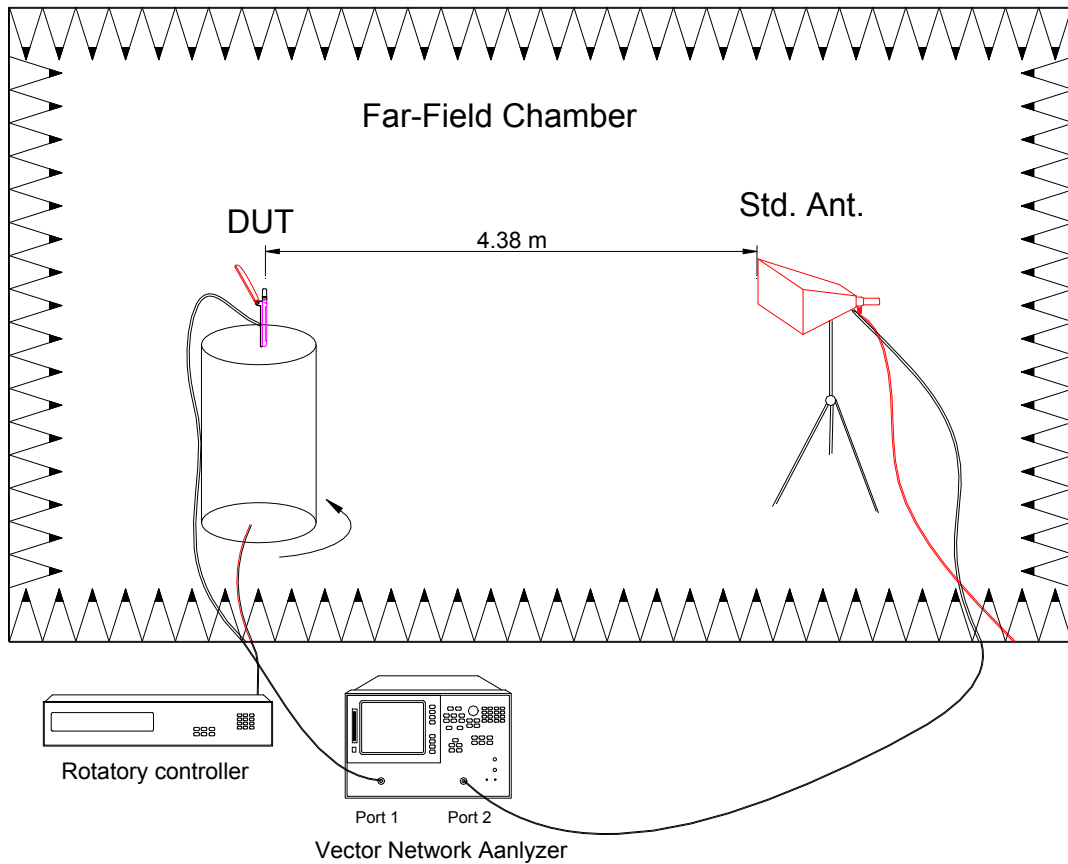
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2-4. Efficiency and Gain

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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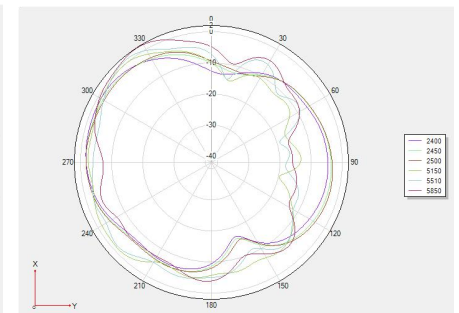
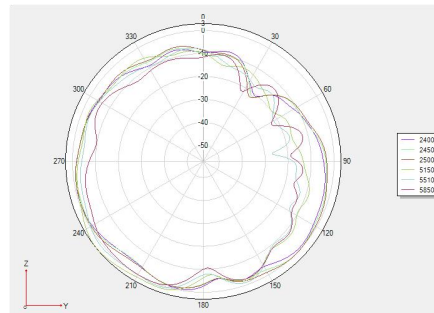
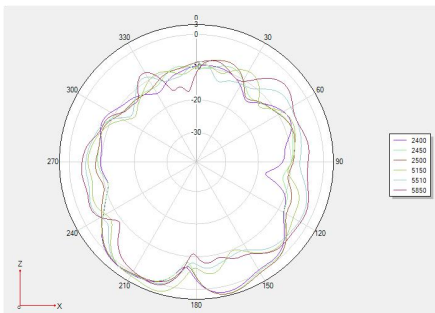
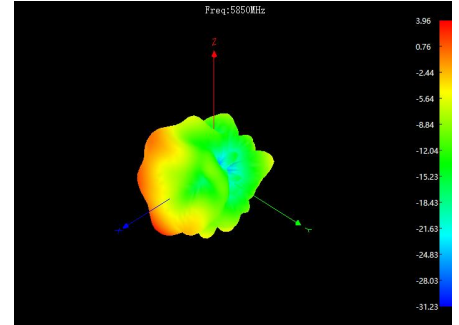
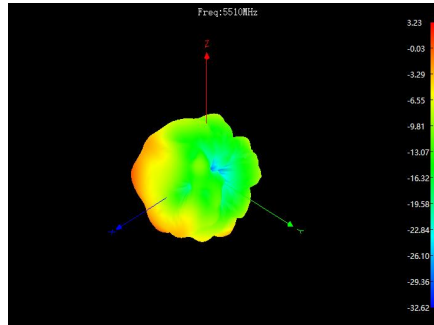
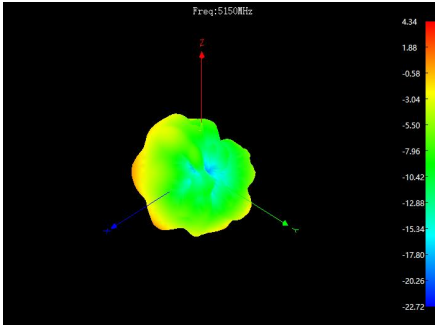
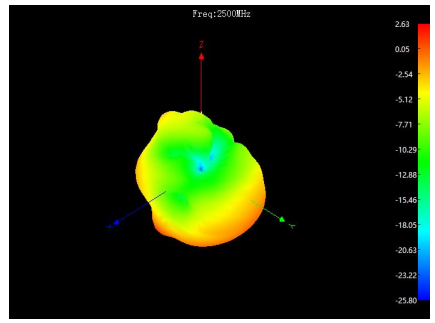
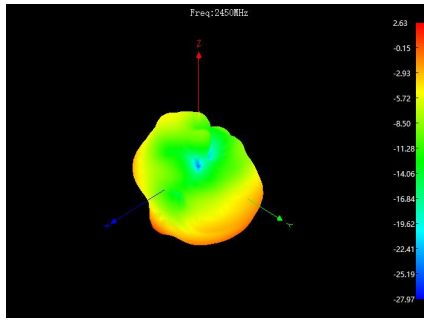
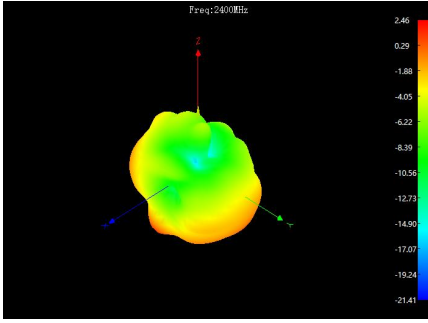
2-4-1 Efficiency and Gain


Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	49.45	2.46
2410	52.66	3.34
2420	51.78	2.83
2430	50.36	3.22
2440	48.99	2.68
2450	47.76	2.63
2460	48.64	2.52
2470	47.76	2.4
2480	51.21	2.75
2490	49.81	2.28
2500	52.17	2.63

Frequency/Mhz	Efficiency / %	MaxGain/dBi
5150	46.77	4.34
5170	46.45	4.1
5190	48.19	4.2
5210	46.03	3.97
5230	46.56	4.08
5250	47.97	4.29
5270	46.77	4.26
5290	48.08	4.52
5310	51.52	4.9
5330	50.12	4.6
5350	51.29	4.86
5370	51.17	4.96
5390	48.08	4.68
5410	46.13	4.37
5430	46.34	4.23
5450	44.98	3.85
5470	45.19	3.66
5490	44.67	3.44

Frequency/Mhz	Efficiency / %	MaxGain/dBi
5510	53.75	3.23
5530	44.77	3.26
5550	45.19	3.43
5570	45.19	3.47
5590	44.16	2.99
5610	48.17	2.59
5630	48.35	2.76
5650	47.55	3.18
5670	47.56	3.4
5690	46.21	3.27
5710	49.16	3.56
5730	53.45	3.49
5750	48.15	3.43
5770	51.88	3.5
5790	52.85	3.56
5810	47.57	3.87
5830	53.31	4.19
5850	50.75	3.96

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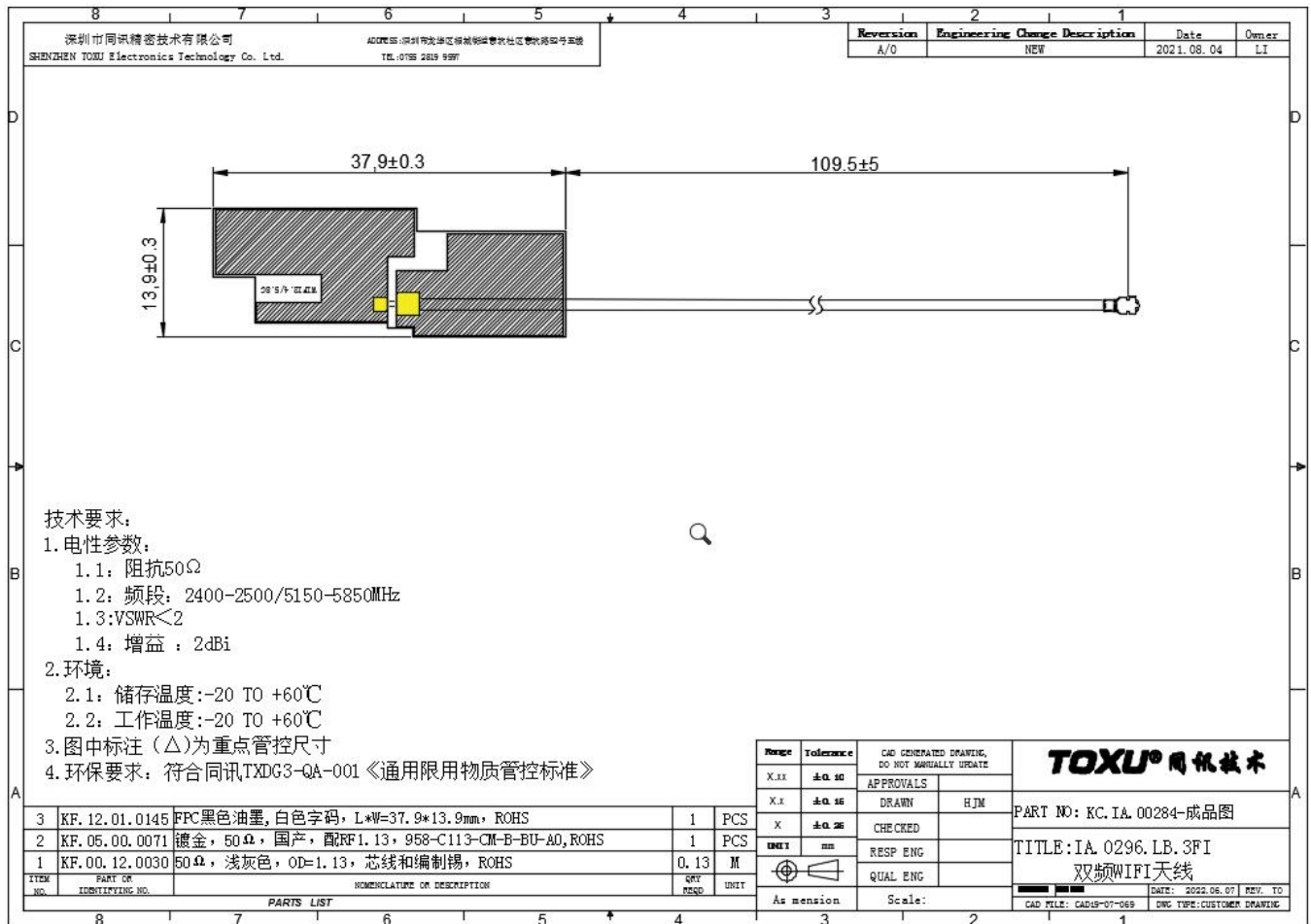



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3. Mechanical Specification:

3-1. Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing




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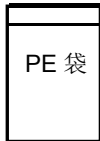
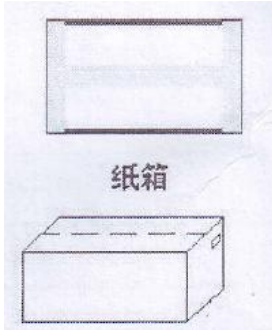
3-2. Connector appearance: IPEX


3-3.Product Image:



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5.包装规格:

产品料号: XXX			
产品型号: XXX			
一、标签要求:			
需方	XXX		
供方	XXXXX		
物料编码	XX		
产品型号	XX		
数量/单	XXX PCS	出厂日期	X 年 X 月 X 日
备注/其他			
二、装箱要求:			
作业说明:			
1. 内包装:			
产品 XX pcs 一袋, 放入小 PE 袋;			
2. 外包装:			
X PCS 一箱;			
3. 注意事项:			
a. 是否要增设隔板、珍珠棉;			
b. 标签的帖附, 如 ROHS 等;			

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