



Tekfun Co., Ltd.

SPECIFICATION FOR APPROVAL

CUSTOMER _____

DESCRIPTION 4G LTE 700-2700MHz FPCB Adhesive Antenna 95x21mm

PART NO. FX-W06

DATE _____

DESIGNER		DIRECTOR	
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Approved by Customer/date:



Tekfun Co., Ltd.

ANTENNA SPECIFICATIONS FOR APPROVAL

1 GENERAL DESCRIPTION

- 1.1 Type No. : FX-W06
1.2 Customer P/N :

2 DESCRIPTION & FEATURES

- FPCB Flexible Embedded Adhesive Antenna for 4G LTE 700-2700MHz, covering GSM, UMTS, Cellular, 2.4GHz Wi-Fi and ISM
- Ground Plane Independent
- >45% Efficiency on All bands
- 5dBi Peak Gain

3 ELECTRICAL CHARACTERISTICS & MECHANICAL

- 3.1 Frequency (MHz): 698-960/1710-2170/2300-2700MHz
3.2 VSWR < 2.5
3.3 Peak Gain (dBi): 1/2.5/5dBi
3.4 Radiation Properties: Omni-directional
3.5 Max Input Power (Watts): 5
3.6 Polarization: Linear
3.7 Impedance (Ohms): 50
3.8 Dimensions (mm): 95*21*0.2 mm
3.9 Material : Flexible Polymer
3.10 Connector and Cable: OD1.13, OD1.37...etc (Optional) + iPex/SMA...etc (Optional)

4 ENVIRONMENT CHARACTERISTICS

- 4-1. Operation Temperature: -40°C to 85°C
4-2. Storage Temperature: -40°C to 85°C

5 QUALIFICATION TESTING

- 5.1 All products shall be able to withstand the following testing.
5.2 Physical dimensions identified within this specification.

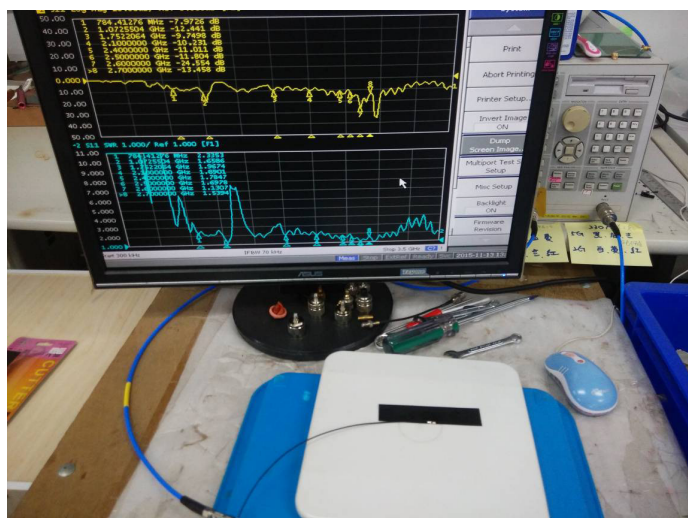
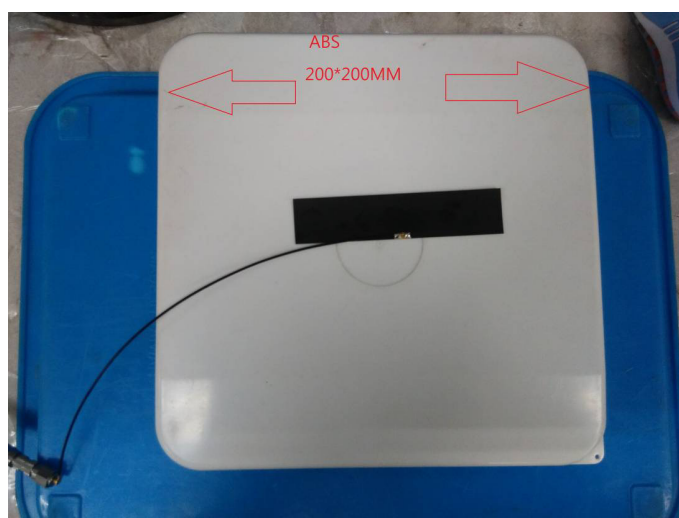


ANTENNA SPECIFICATIONS FOR APPROVAL

6 PHOTO

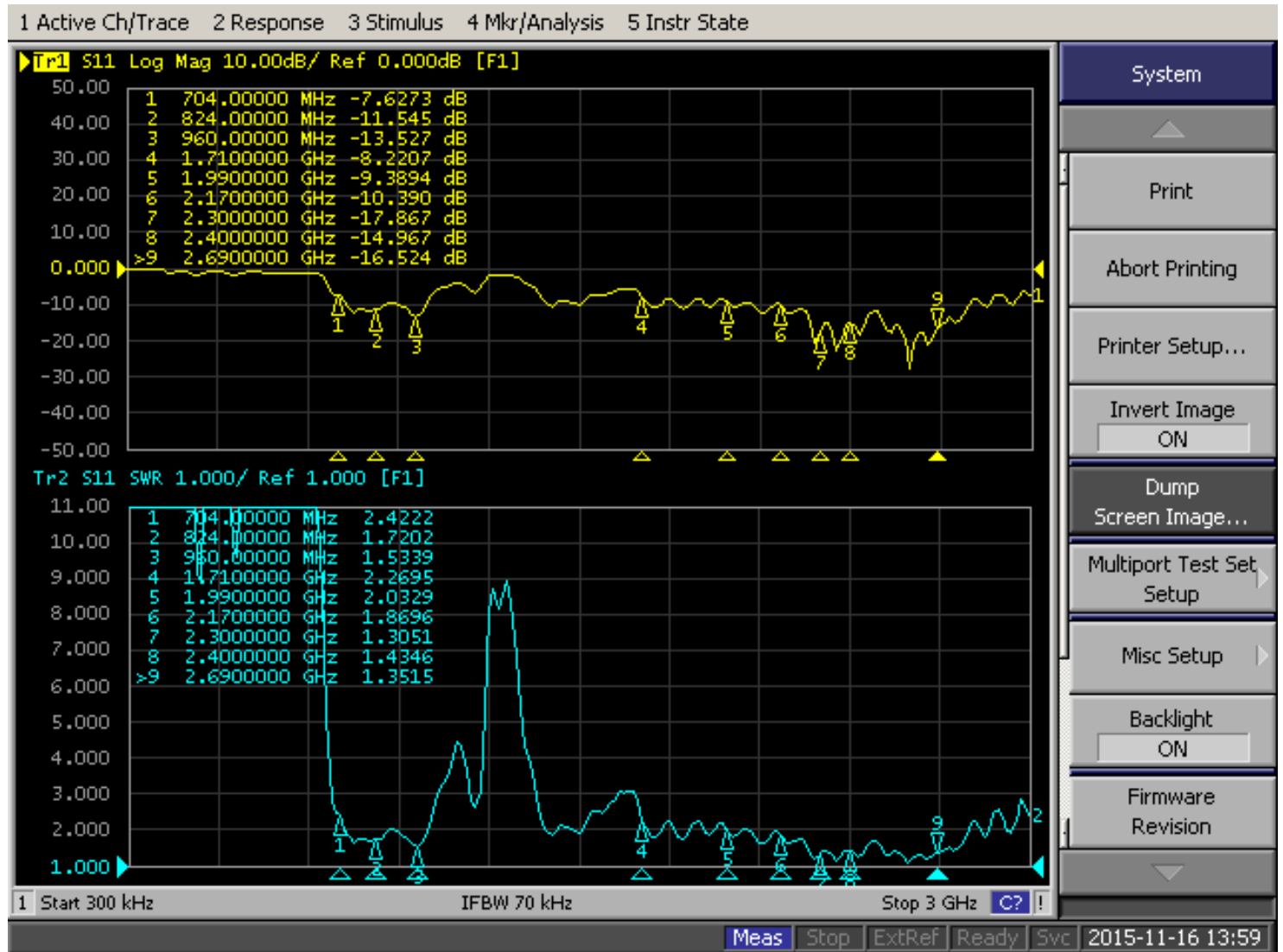


7 TEST- ENVIREMENT



ANTENNA SPECIFICATIONS FOR APPROVAL

8 TEST- VSWR



ANTENNA SPECIFICATIONS FOR APPROVAL

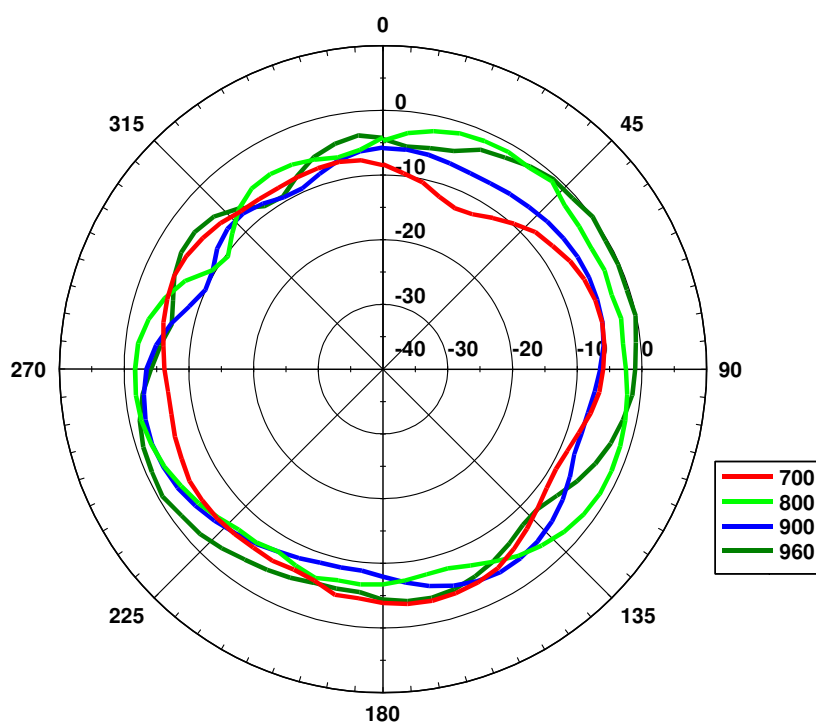
9 PATTERNS



**TEKFUN****Tekfun Co., Ltd.****ANTENNA SPECIFICATIONS FOR APPROVAL**

Radiation patterns (XZ-plane)

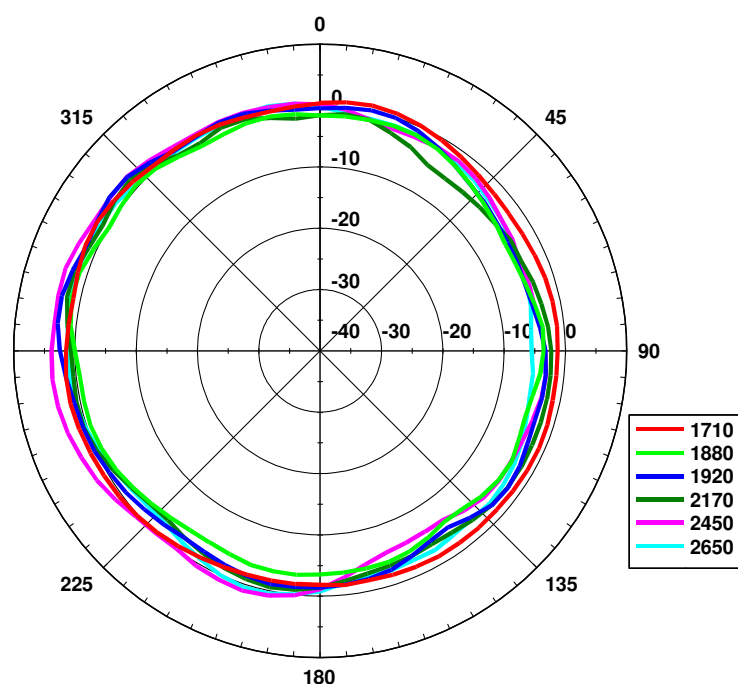
Total power	Max (dBi)	Min (dBi)	Average (dBi)
700	-3.41	-12.76	-6.33
800	-0.96	-10.40	-3.68
900	-2.45	-9.94	-5.87
960	0.04	-9.16	-3.22



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Radiation patterns (XZ-plane)

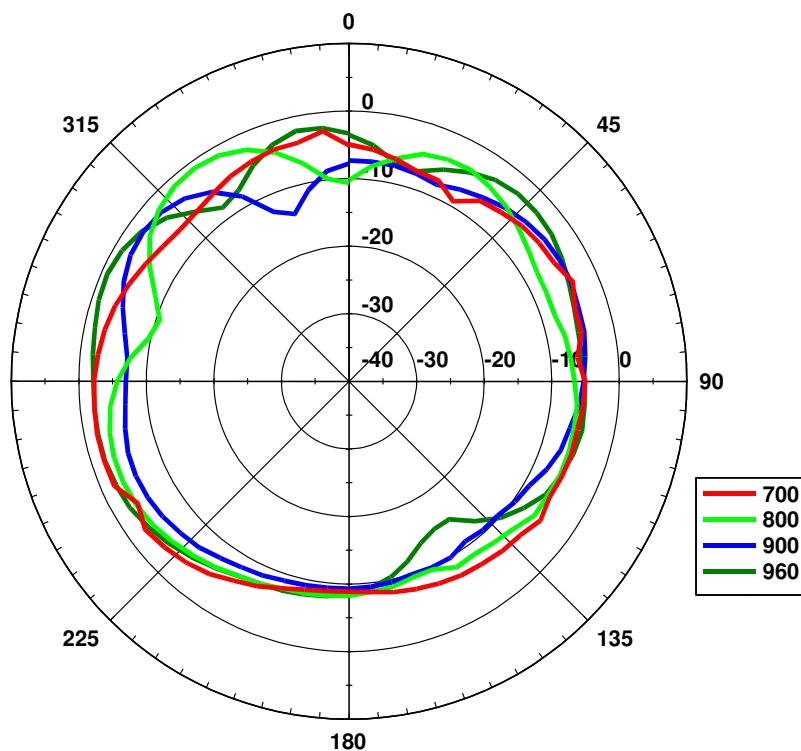
Total power	Max (dBi)	Min (dBi)	Average (dBi)
1710	2.00	-1.96	-0.14
1880	1.48	-5.56	-2.10
1920	3.06	-4.87	-0.65
2170	2.21	-5.28	-1.27
2450	3.90	-5.92	0.10
2650	1.80	-5.51	-0.98



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Radiation patterns (XY-plane)

Total power	Max (dBi)	Min (dBi)	Average (dBi)
700	-1.89	-9.23	-4.98
800	-1.04	-10.67	-5.67
900	-2.36	-13.95	-6.50
960	-0.87	-14.76	-4.45



**TEKFUN****Tekfun Co., Ltd.****ANTENNA SPECIFICATIONS FOR APPROVAL**

Radiation patterns (XY-plane)

Total power	Max (dBi)	Min (dBi)	Average (dBi)
1710	3.01	-19.80	-2.04
1880	1.00	-18.10	-3.34
1920	2.97	-13.27	-1.87
2170	2.24	-20.47	-3.18
2450	3.22	-10.60	-1.66
2650	1.83	-11.58	-3.07

