

SPECIFICATION FOR APPROVAL

Customer: Actions Microelectronics Co., Ltd.

Customer’ s part number: RBT-PCB-A524-V021-L130MM

Product description: PCB 2.4~2.5GHz&5.15~5.85GHz Frequency Antenna ipex connector

Manufacturer: Shenzhen RedbirdTek Technology Co., Ltd.

Manufacturer Address: Room 206, No. 1, Lane 1, District 1, Haibin Xincun, Gushu Community, Xixiang
Sub-district, Bao'an District, Shenzhen City,China

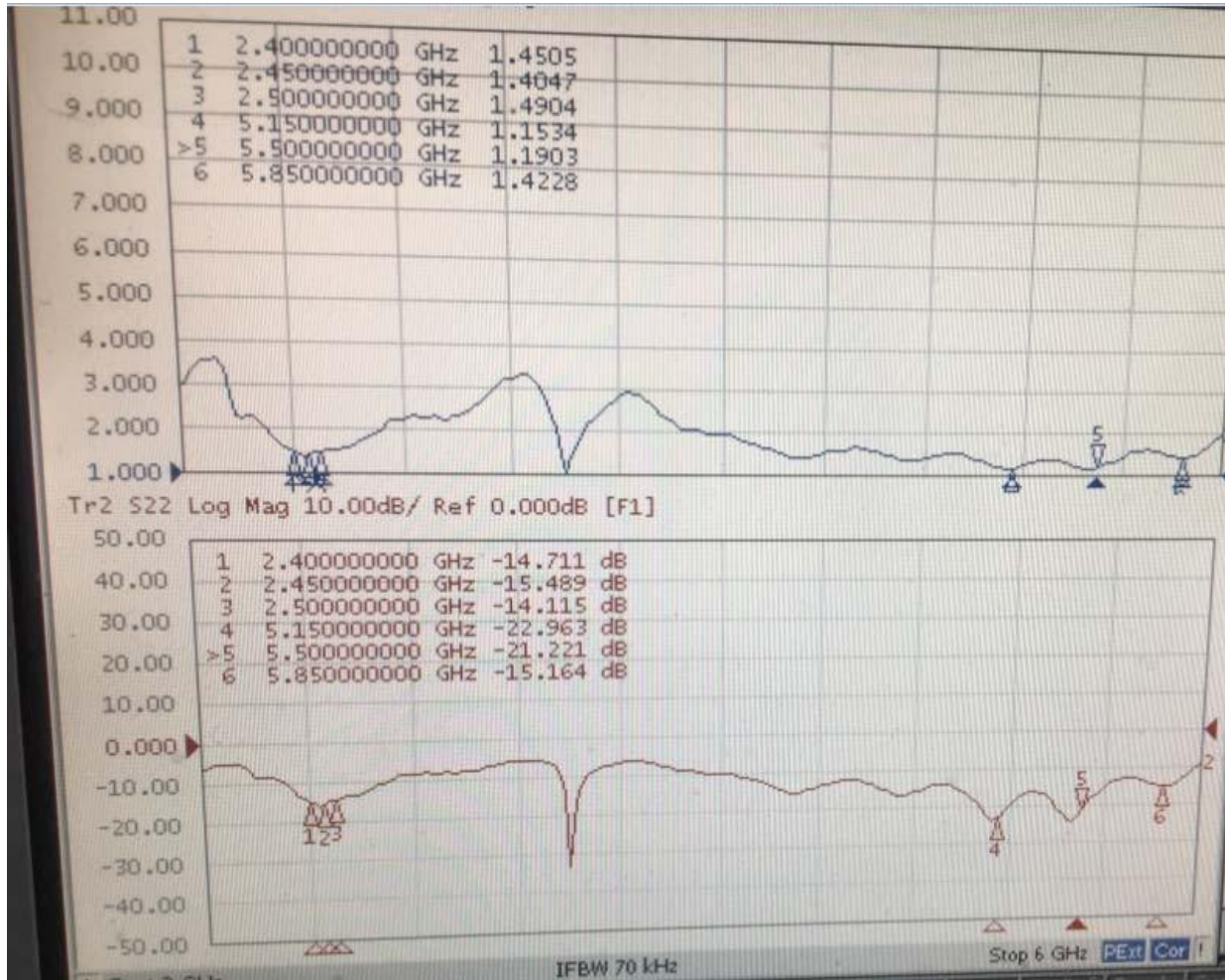
Tester name: qinqizhi

1 Specification

A. Electrical Properties	
Frequency Rang	2.40-2.50GHz 5.15-5.85GHz
Impedance	50 Ω Nominal
VSWR	2.0Max.
Gain(peak)	2.40-2.50GHz:3.18dBi 5.15-5.85GHz:3.55dBi
Out of roundness	3.0dB (Max.)
Radiation	Omni-Directional
Polarization	Linear Vertical
B. Physical Properties	
Connector Type	IPEX 1.0
Cable	RG-113 130mm±5mm
Antenna Radiator	PCB FR-4
C. Environmental	
Storage Temp	-40℃~+85℃
Operating Temp	-10℃~+65℃
Storage humidity	95%
Working humidity	5%~95%

2 Electrical Test Report

2.1 Stationary wave pattern



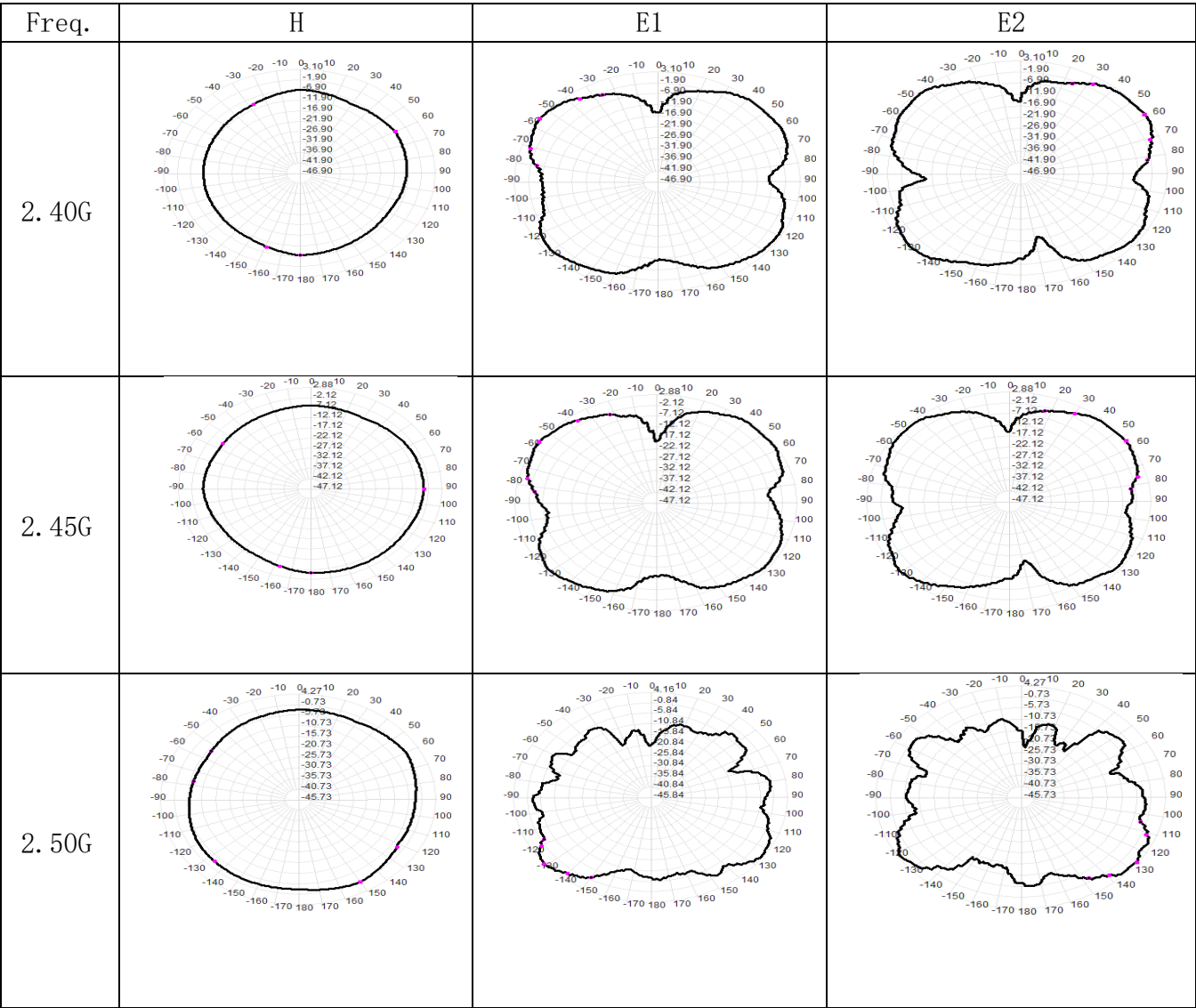
2.2 Gain and Efficiency:

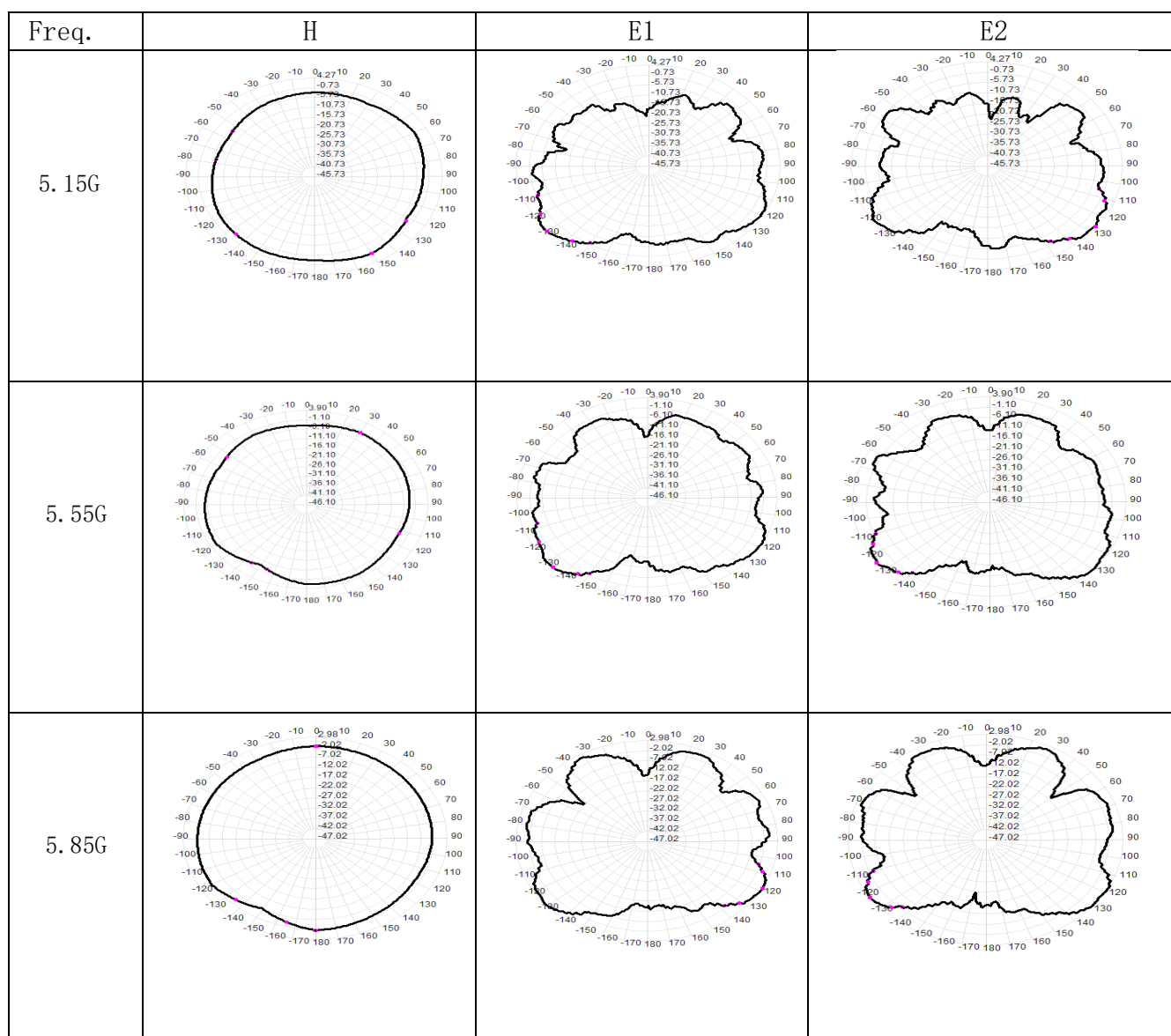
Frequency	2.4GHz	2.41GHz	2.42GHz	2.43GHz	2.44GHz	2.45GHz	2.46GHz	2.47GHz	2.48GHz	2.49GHz	2.50GHz
Efficiency(%)	75.48	74.96	72.56	72.17	72.55	73.43	74.98	75.94	75.65	75.82	74.33
Gain(dbi)	3.04	3.08	3.18	3.16	3.08	2.97	3.23	3.20	3.30	2.95	3.01

Frequency	5.15GHz	5.2GHz	5.25GHz	5.3GHz	5.35GHz	5.4GHz	5.45GHz	5.5GHz	5.55GHz	5.6GHz	5.65GHz	5.7GHz	5.75GHz	5.8GHz	5.85GHz
Efficiency(%)	65.62	62.35	63.83	62.74	68.32	67.07	64.75	67.50	68.58	67.28	63.60	66.65	66.85	67.91	68.85
Gain(dbi)	2.1	2.27	2.52	3.29	3.3	2.79	3.16	3.38	3.4	3.23	3.55	3.41	3.3	3.25	3.1

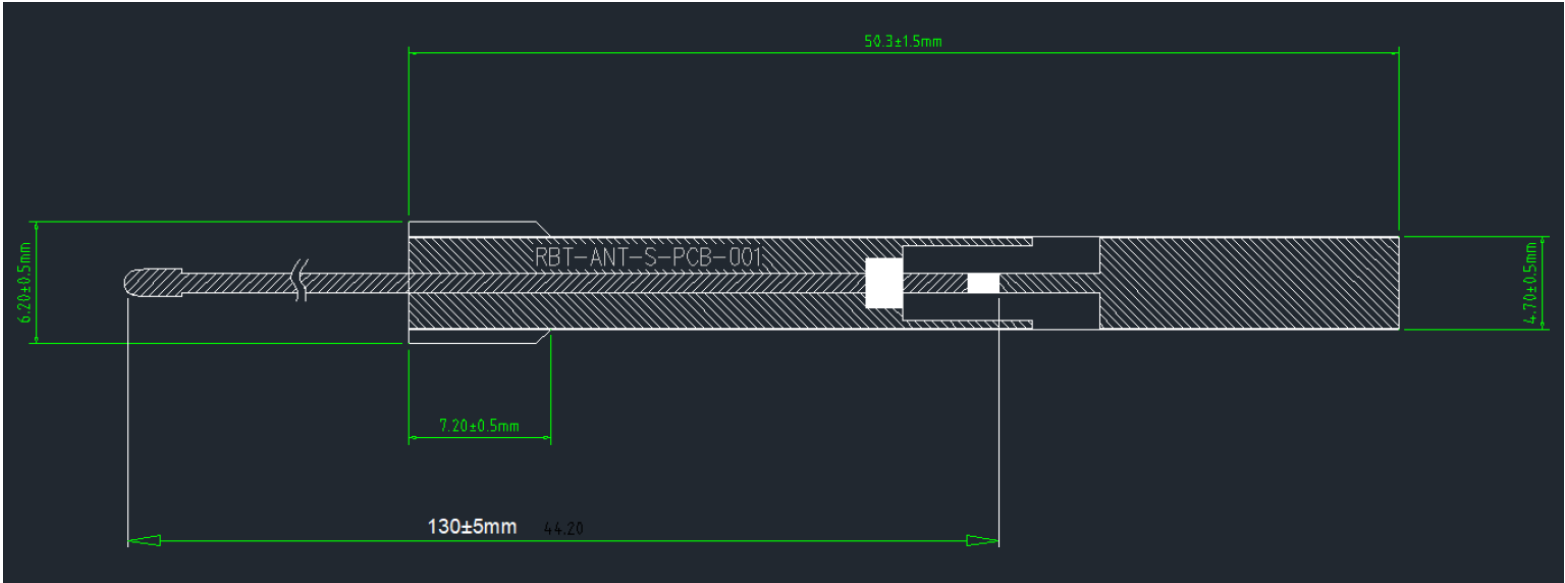
2.3 2D、3DRaditation Pattern

2. 4G





3 Antenna size:



Size: