

# 維克摩爾產品承認書

## Specification For Approval

日期： 2023/12/27

Date

編號： R-20231227005

File No.

承認廠商： 拍檔科技股份有限公司  
Customer



品牌廠商： 維克摩爾科技有限公司  
brand

製造廠商： 東莞廣協電子有限公司  
Manufacturer: Dongguan Guangxie Electronics Co.,Ltd  
Address: No. 9 Heshun Road, Shatou South District, Chang'an Town,  
, Dongguan City, Guangdong Province

型號品名 WIFI 6E ANTENNA

Part Number VM7000-3013-OOX-65-W (2108400300005)  
Description

廠商審核：

Approved By

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## 1. Specification

. Product Number : VM7000-3013-OOX-65-W

. Version : 1.0

. Model Name :

### Electrical Characteristics

. Frequency (MHz) : 2400-2500 / 5150-7125MHz

. S.W.R. :  $\leq$  2.0 / 3.0

. Efficiency : > 20 % / 13%

. Peak Gain : 1.3 / 1.4 dBi

. Impedance : 50 ohm

. Polarization : Linear

### Mechanical Characteristics

. Cable : RF 1.13

. Connector : MHF-4

. Color : White

. Material : RoHS 2011/65/EU  
with IEC 62321:2008 Method

### Environmental Condition

. Operation Temperature : -40 ~ +85 °C

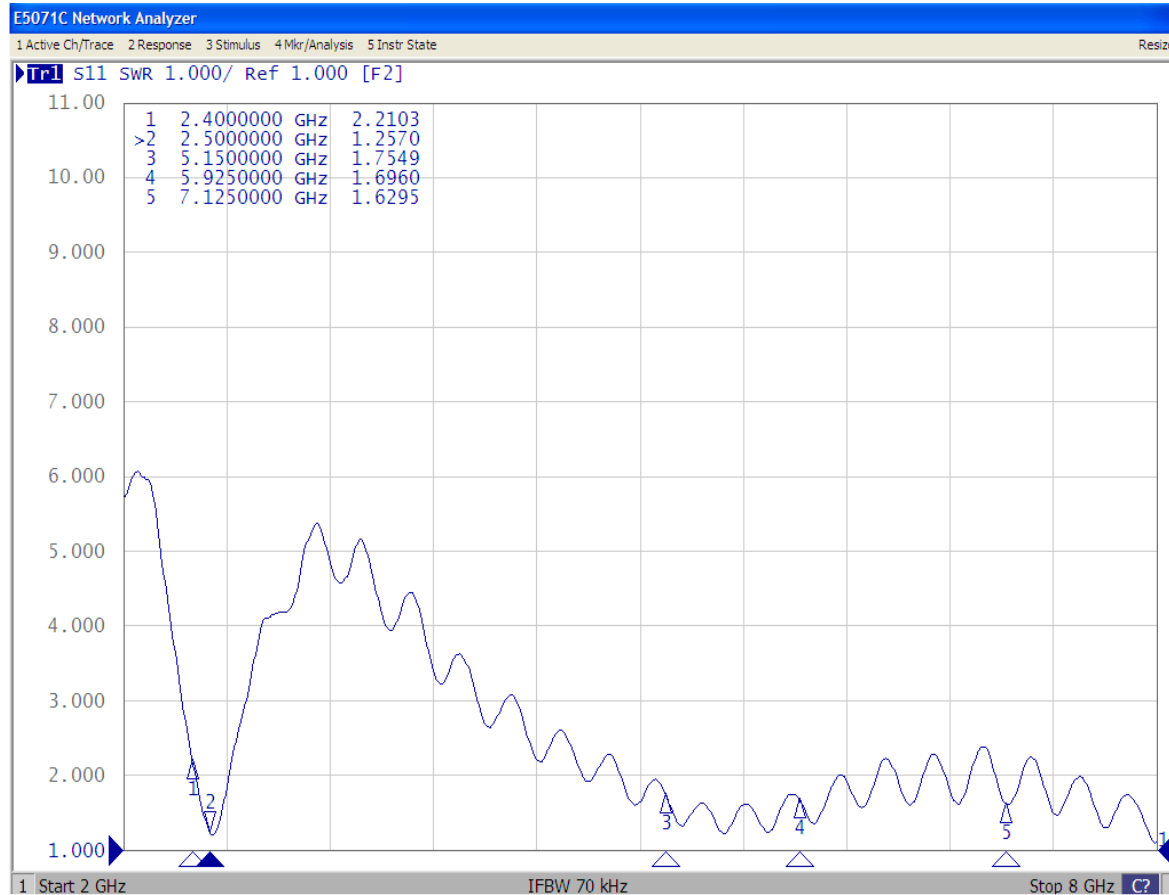
. Storage Temperature : -40 ~ +85 °C

# 2.1 S Parameter Test

## S.W.R. Test Data

# SWR / Return Loss Test Data

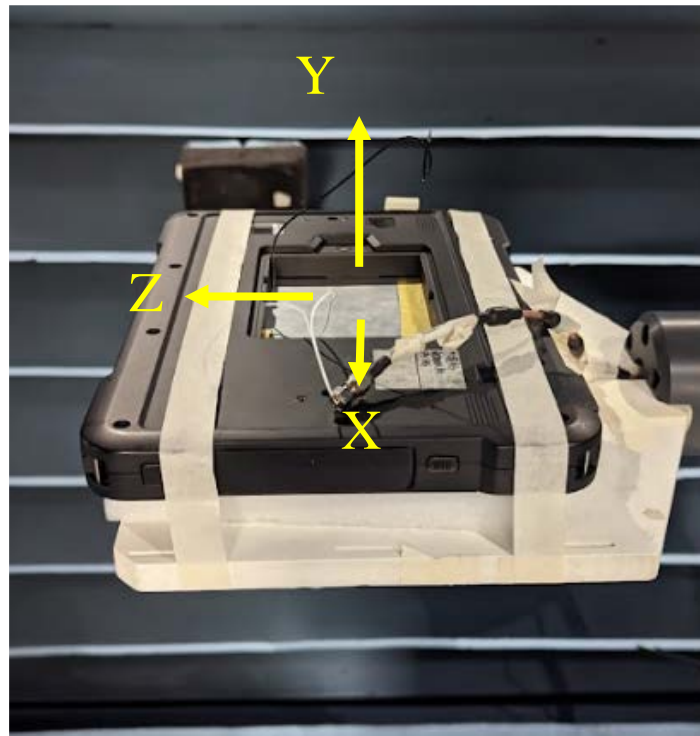
White



### 3. Antenna Gain Test

#### 3.1 Chamber Setup and Angle Definition

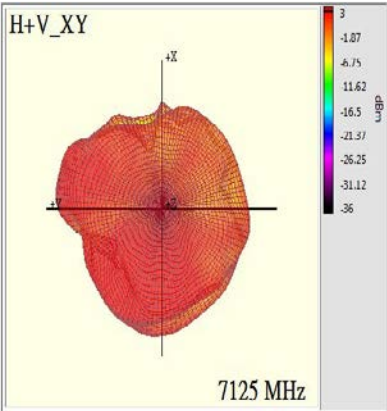
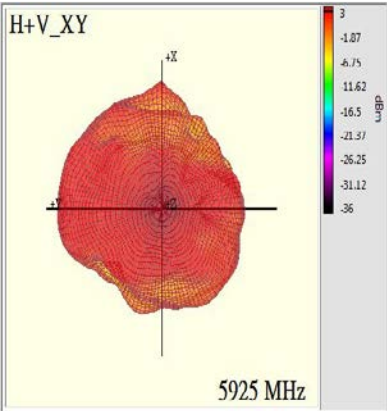
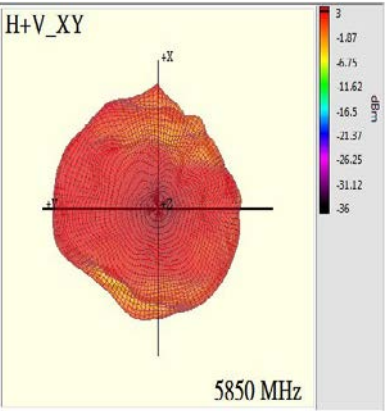
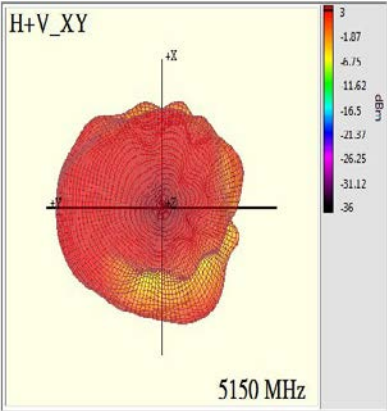
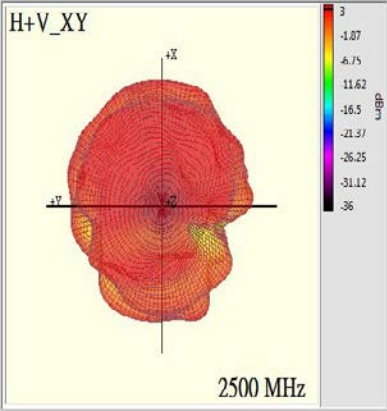
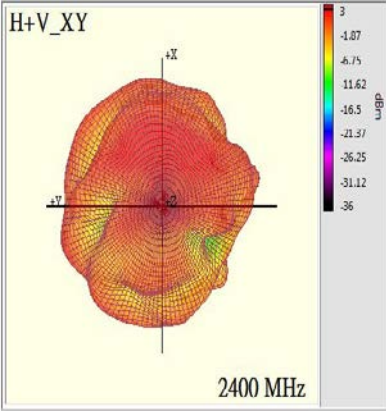
# Antenna Configuration



3. Antenna Gain Test  
3.2 Antenna Radiation Pattern

# Radiation Pattern

White



### 3. Antenna Gain Test

#### 3.3 Gain and Efficiency Test Data

# Gain & Efficiency Test Data

White

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	-0.2	0.1	0.3	0.7	1.0	1.4	1.7	1.8	1.9	1.9	1.8
Directivity (dBi)	5.9	6.1	6.2	6.3	6.5	6.5	6.5	6.5	6.4	6.3	6.0
Efficiency (dB)	-6.1	-6.0	-5.9	-5.7	-5.4	-5.1	-4.9	-4.7	-4.5	-4.4	-4.2
Efficiency (%)	24.5	25.2	25.8	27.1	28.7	30.7	32.6	34.2	35.5	36.7	37.8

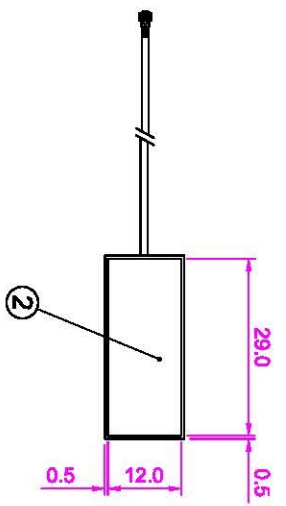
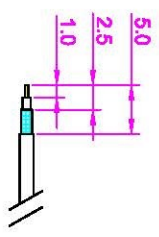
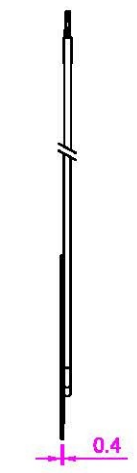
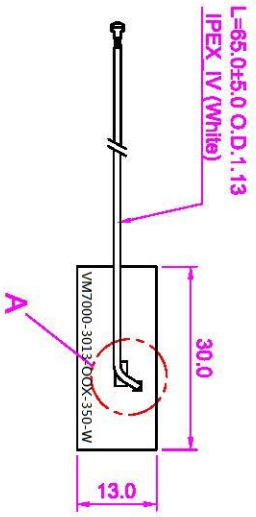
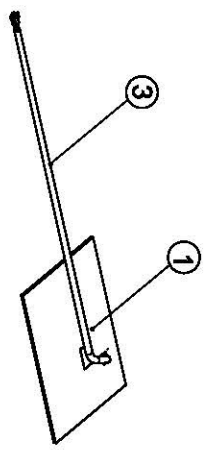
Frequency (MHz)	5150	5250	5350	5450	5550	5650	5750	5850
Gain (dBi)	2.3	2.3	2.4	1.5	2.5	2.4	3.0	2.3
Directivity (dBi)	5.9	5.4	5.9	5.6	6.0	5.9	5.7	5.8
Efficiency (dB)	-3.6	-3.1	-3.5	-4.1	-3.5	-3.5	-2.7	-3.5
Efficiency (%)	44.0	48.7	44.2	38.8	44.6	45.0	53.7	44.7

Frequency (MHz)	5925	6025	6125	6225	6325	6425	6525	6625	6725	6825	6925	7025	7125
Gain (dBi)	1.8	2.3	1.7	1.2	1.4	1.0	0.7	1.2	0.8	0.6	0.0	-0.2	0.2
Directivity (dBi)	5.7	6.3	6.1	6.0	6.2	6.2	5.8	6.0	5.7	5.5	5.2	5.5	5.4
Efficiency (dB)	-3.9	-4.0	-4.3	-4.8	-4.8	-5.2	-5.1	-4.8	-4.9	-4.9	-5.2	-5.6	-5.2
Efficiency (%)	41.2	39.7	36.8	33.1	33.2	30.4	30.6	32.9	32.1	32.2	30.1	27.4	30.5

## 4. Mechanical Drawing / Dimension / Layout



REV	DATE	DESCRIPTION
X1	2022.11.15	New Release



No.	Part No.	Description	Qty
3		Cable	1
2		Adhesive	1
1		PCB	1

UNLESS OTHERWISE SPECIFIED		VICMOORE	
Tolerance ON:		Customer Model: —	
XX ±0.5	X° ±1.0	TITLE: WIFIGE ANTENNA	
XXX ±0.2		PART NO.: VM7000-3013-00X-65-W	
APP BY/CHK BY	DES BY	Sheet UNITS SCALE REV	
		1 of 1 mm 1/1 X1	