

TEST REPORT

- **APPLICANT** : Acrox Technologies Co., Ltd
- PRODUCT NAME : PCB Antenna
- MODEL NAME : Ant-B2J
- TRADE NAME : N/A
- BRAND NAME : N/A
- STANDARD(S) : IEEE Std 149-2021
- **RECEIPT DATE** : 2022-11-04
- **TEST DATE** : 2022-11-07
- **ISSUE DATE** : 2022-11-17

Edited by:

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(m mide

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Approved by:

Chi Shide(Supervisor)

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Change History				
Version	Reason for change			
1.0 2022-11-17		First edition		





Note: Provide by manufacturer.

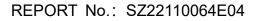
1.1. Applicant and Manufacturer Information

Applicant:	Acrox Technologies Co., Ltd				
Applicant Address:	4F., No.89, Minshan St., Neihu Dist., Taipei City 114, Taiwan, R.O.C				
Manufacturer:	Acrox Technologies Co., Ltd				
Manufacturer Address:	4F., No.89, Minshan St., Neihu Dist., Taipei City 114, Taiwan, R.O.C				

1.2. Equipment Under Test (EUT) Description

Wireless Type	Bluetooth	
Frequency	N/A	
IMEI	N/A	
Antenna Type	Meander PCB antenna	
Sample No.	4#	







2.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title		
1	IEEE Std 149-2021	IEEE Recommended Practice for Antenna		
		Measurements		

2.2. Test Conditions

Test Environment Conditions:

Relative Humidity:	25 75 %
Temperature:	+10 °C to +30 °C

2.3. Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO. When the test result is a critical value,we will use the measurement uncertainty give the judgment result based on the 95% Confidence intervals.

Item	Measurement Uncertainty(dB)			
Gain	±0.5			
VSWR ±0.2				
Measurement Uncertainty(95% Confidence Interval) K=2				





2.4. Test Results

2.4.1.Gain

Frequency (MHz)	Gain(dBi)
2400	2.99
2410	3.07
2420	2.91
2430	2.77
2440	3.02
2450	3.05
2460	3.17
2470	3.03
2480	2.98
2490	3.10
2500	3.17

2.4.2.VSWR

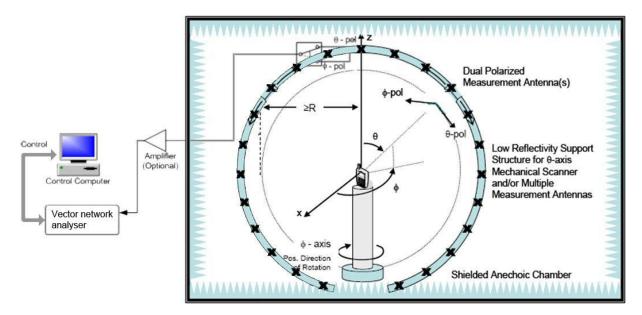
Frequency	VSWR
2400MHz	2.25
2440MHz	1.99
2480MHz	1.94





Photographs Annex A

1. Test Setup





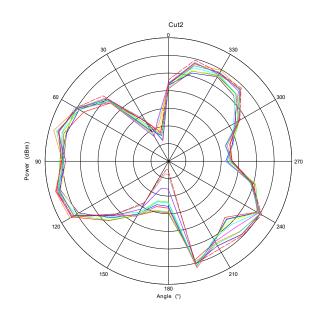
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Annex B Figures

1. 2D Radiation Pattern

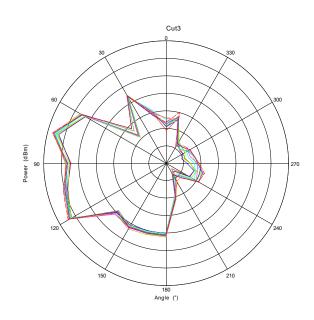
Phi=0°





Max: -2 Min: -16 Scale: 2/div

Phi=90°





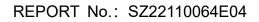
Max: 2 Min: -12 Scale: 2/div



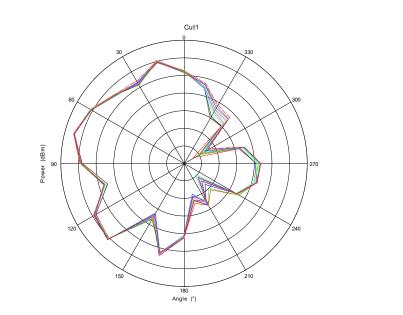
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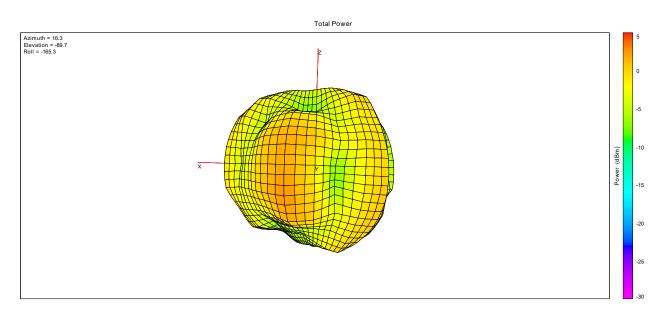






Max: 5 Min: -30 Scale: 5/div

2. 3D Radiation Pattern



2400MHz



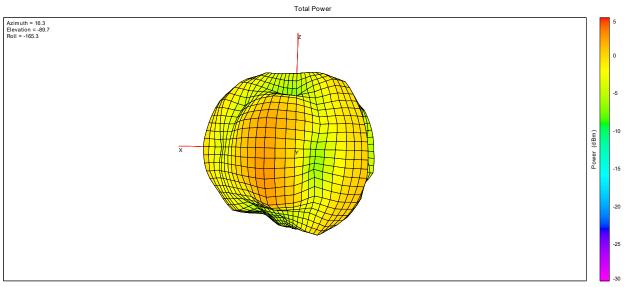
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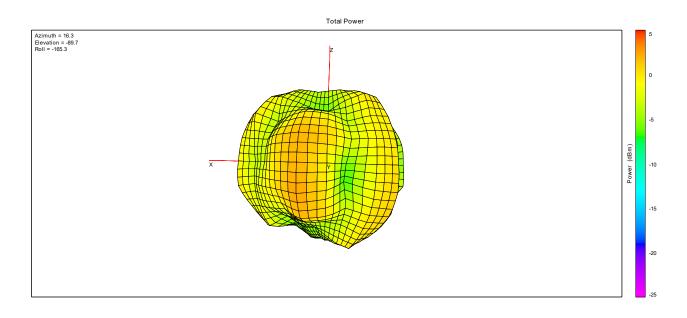
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2440MHz



2480MHz



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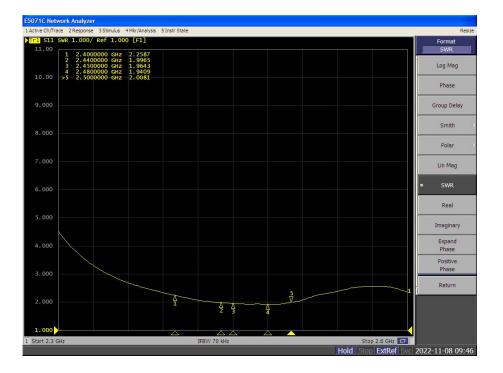
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3. VSWR



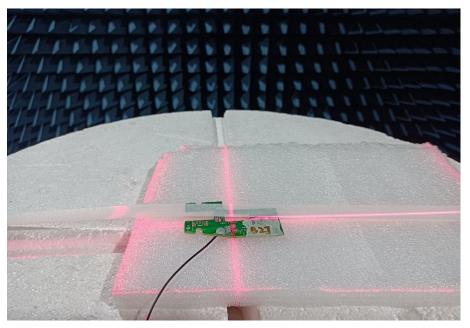


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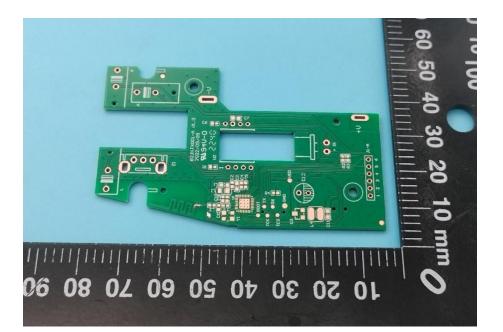


Annex C Photographs

1. Test environment



2. EUT



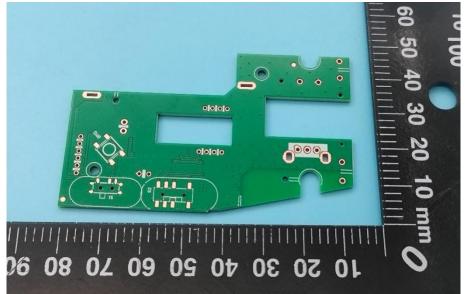


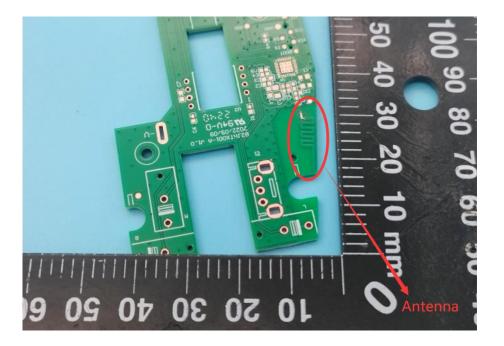
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Annex D General Information

1.1 Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.			
Laboratory Address:	FL1-3, Building A, FeiYang Science Park, No.8			
	LongChang Road, Block67, BaoAn District, ShenZhen,			
	GuangDong Province, P. R. China			
Telephone:	+86 755 36698555			
Facsimile:	+86 755 36698525			

1.2 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL1-3, Building A, FeiYang Science Park, No.8
	LongChang Road, Block67, BaoAn District, ShenZhen,
	GuangDong Province, P. R. China

1.3 Test Equipments Utilized

No.	Equipement Name	Serial No.	Туре	Manufa cturer	Cal.Date	Cal.Due Date
1	Network Analyzer	MY46110140	E5071C	Agilent	2022.07.04	2023.07.03
2	OTA Chamber	TJ2235-Q17 93	AMS-8923-1 50	ETS	2020.01.06	2023.01.05
3	Antenna Measurement System	1685	EMQuest EMQ-100 V 1.13 Build 21267	ETS	N/A	N/A

— END OF REPORT —

