

# **TEST REPORT**

- : ZHUHAI YONGTAI ELECTRONIC CO., LTD. APPLICANT
- **PRODUCT NAME** : PCB Antenna
- MODEL NAME : 2.4G Antenna
- TRADE NAME : N/A
- BRAND NAME : N/A
- STANDARD(S) : ANSI/IEEE Std 149-2008
- **RECEIPT DATE** : 2020-06-16
- TEST DATE : 2020-06-17
- **ISSUE DATE** : 2020-06-19



Edited by:

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Zhao Zetian(Rapporteur)

Approved by:

Chi Shide(Supervisor)

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Change History		
Version Date Reason for change		Reason for change
1.0	2020-06-19	First edition





**Note:** Provide by manufacturer.

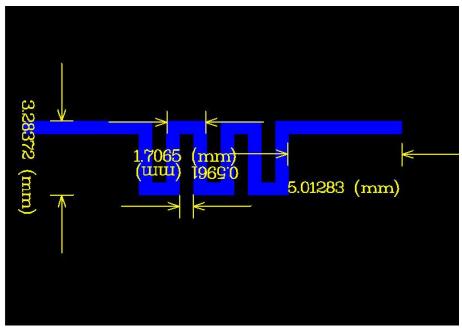
# **1.1. Applicant and Manufacturer Information**

Applicant:	ZHUHAI YONGTAI ELECTRONIC CO., LTD.	
Applicant Address:	No.25, Jingfeng Rd. West, Jingding industrial park,	
	Tangjiawan(Jingding) Town, Zhuhai City, China	
Manufacturer:	N/A	
Manufacturer Address:	N/A	

# **1.2. Equipment Under Test (EUT) Description**

Frequency	N/A
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Dimensions:





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# 2.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	ANSI/IEEE Std 149-2008	IEEE Standard Test Procedures for Antennas

## 2.2. Test Conditions

**Test Environment Conditions:** 

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

# 2.3. Test Results lists

### 2.3.1.Gain

Frequency(MHz)	Gain(dBi)
2405	-2.32
2411	-2.42
2417	-2.42
2430	-2.48
2435	-2.38
2451	-2.19
2457	-2.30
2460	-2.26
2463	-2.36
2469	-2.24
2470	-2.28
2475	-2.22



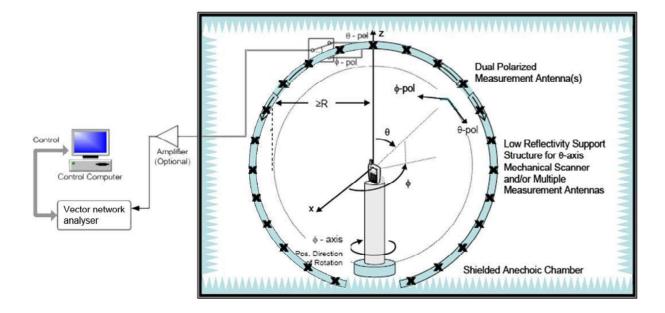
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#### **Test Setup** Annex A





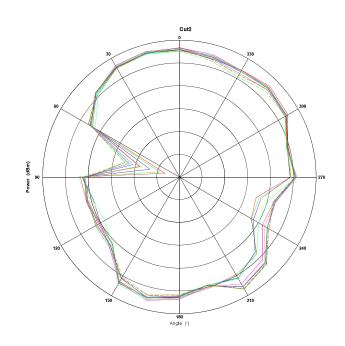
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# Annex B Figures

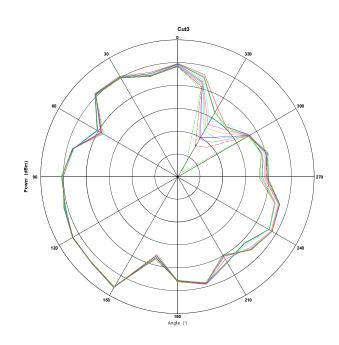
1. 2D Radiation Pattern

Phi=0°



Max: -10 Min: -40 Scale: 5/div







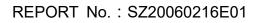
405 MHz 411 MHz 417 MHz

Max: 0 Min: -60 Scale: 10/div

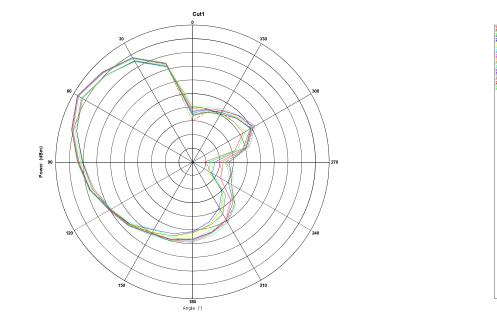


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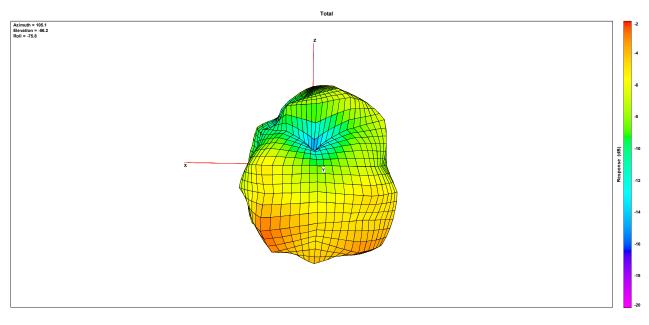






Max: -6 Min: -26 Scale: 2/div

## 2. 3D Radiation Pattern



2405MHz

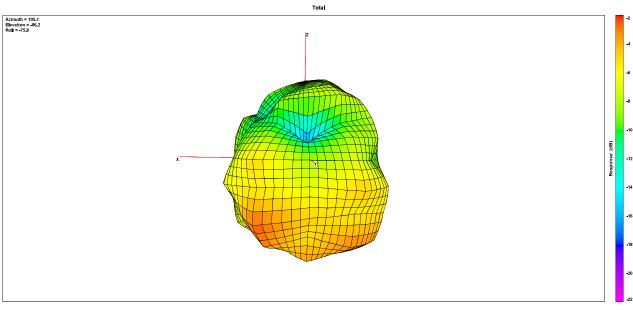


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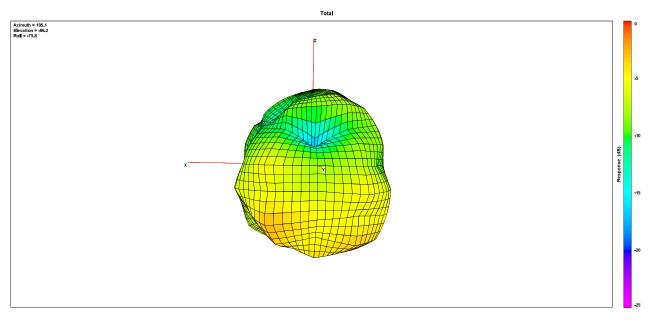
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2457MHz



2475MHz



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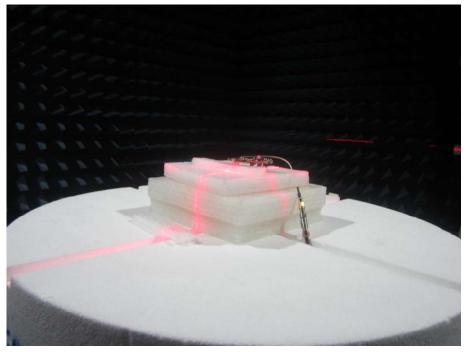
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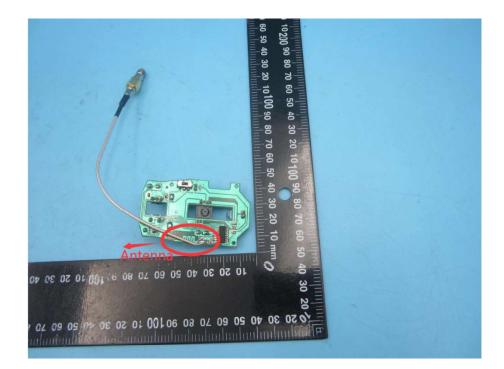


# Annex C Photographs

1. Test environment



#### 2. EUT

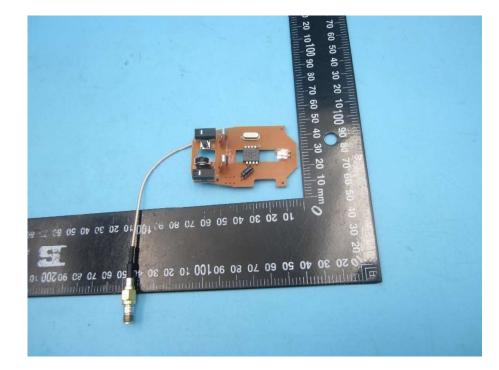




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# Annex D General Information

# **1.1 Identification of the Responsible Testing Laboratory**

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab	
	Laboratory	
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. Morlab	
	Laboratory	
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**

# 1.3.1 List of Test Equipment

No.	Туре	Specification
1	E5071C Vector Network Analyzer	Manufacturer: Agilent
2	4*4*4 Full Anechoic Chamber	Manufacturer: ETS
3	Multi-probe Antenna Measurement System	Manufacturer: ETS

END OF REPORT ——

