



Test Report

Product Name: 2.4G PCB ANT

Model Name: DKL 1802_C

Issued Date: 25th Jul, 2018

Report No.: TS201807001-1

Report Version: V1.0

Issue By

Shenzhen CST Testing Co., Ltd.

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Park, Xixiang Street, Baoan District, Shenzhen, China.

Note: The test results relate only to the samples tested. This report shall not be reproduced in full, without the written approval of CST TestCenter.



General Summary

Product Name	2.4G PCB ANT	Model Name	-
Brand Name	/	Receipt Date	23 th Nov,2022
Applicant	XIAMEN HEALTHPAL ELECTRONIC CO., LTD		
Address	Room 1402, Block B, Tianhu Mansion, No.148, Binglang Xili, Siming District, Xiamen , Fujian		
Manufacturer	XIAMEN HEALTHPAL ELECTRONIC CO., LTD		
Address	Room 1402, Block B, Tianhu Mansion, No.148, Binglang Xili, Siming District, Xiamen , Fujian		
Test Program	Passive &VSWR		
Performed Date	9 th Jul,2018~16 th Jul,2018		
Conclusion	Information only		
Comment	The test result only responds to the test sample		



Prepared By:

Kyle Wang

Date:

Nov 25,2022

Project Engineer

Check By:

Trauma

Date:

Nov 25,2022

Reviewer



SECTION 1 General Information

1.1 Testing Laboratory List

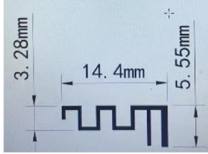
Company: Shenzhen CST Testing Co.,Ltd.
Address: 2st Floor, Building B, Baoan zhigu Technology Park,Xixiang Street, Baoan District, Shenzhen,China.
Post Code: 518000
Contact David
Telephone 0755-27907627
Fax 0755-27907627

1.2 Applicant Information

Company: XIAMEN HEALTHPAL ELECTRONIC CO., LTD
Address: Room 1402, Block B, Tianhu Mansion, No.148, Binglang Xili, Siming District, Xiamen , Fujian

1.3 Equipment under Test (EUT) Information

Table 1-1 EUT Information

Manufacture	XIAMEN HEALTHPAL ELECTRONIC CO., LTD
Device Type	2.4G PCB ANT
Model	2.4G PCB ANT
Antenna Type	
Device Operation Configurations:	
Test Item	Configuration
VSWR	2400MHz, 2450MHz, 2500MHz
Passive	2400MHz, 2450MHz, 2500MHz

1.4 EUT Distribute

Table 1-2 EUT Used For Each Test

Model	Sample NO.	Test Item	Test Condition
2.4G PCB ANT	CST2022112301	VSWR	23.0℃, 49%RH
		Passive	

SECTION 2 Test Method

2.1 Test System Describe

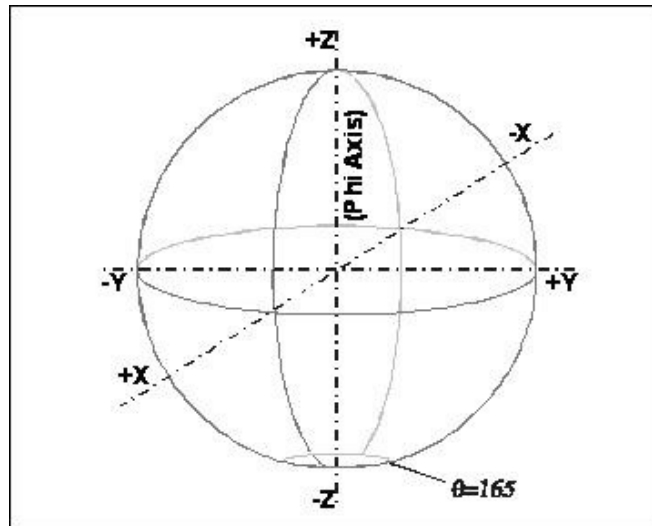


Fig.1 Coordinate Axis

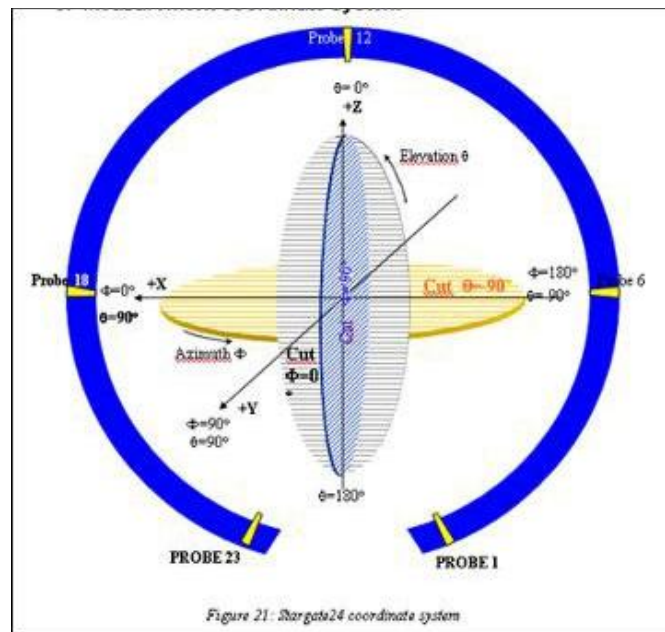
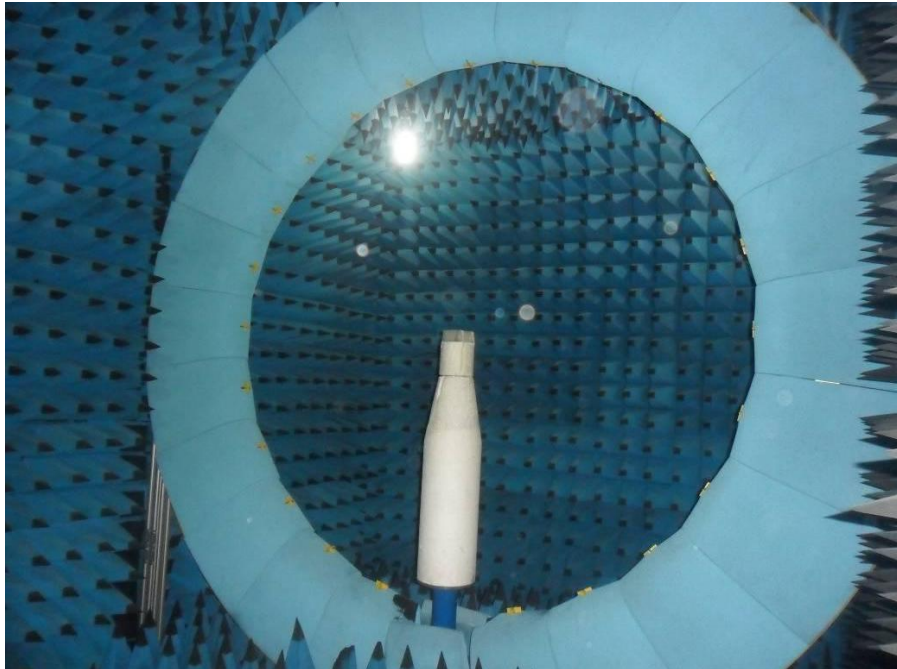


Fig.2 Coordinate Axis

For the purposes of these tests, two principal categories of positioning systems will be defined, based on expected methods of performing spherical pattern tests. These are distributed-axis systems and combined-axis systems. Distributed-axis systems move the measurement antenna about the EUT and Phi-axis positioner and are representative of most conicalcut method systems.

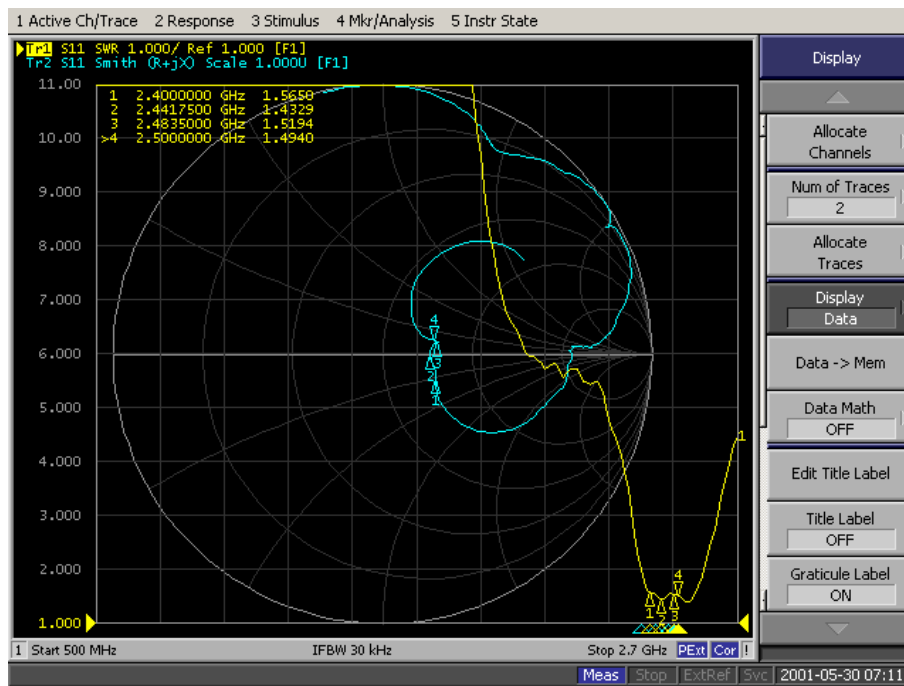
2.2 Chamber Test Photos



SECTION 3 Test Result

3.1 Test Result

3.1.1 VSWR,Smith

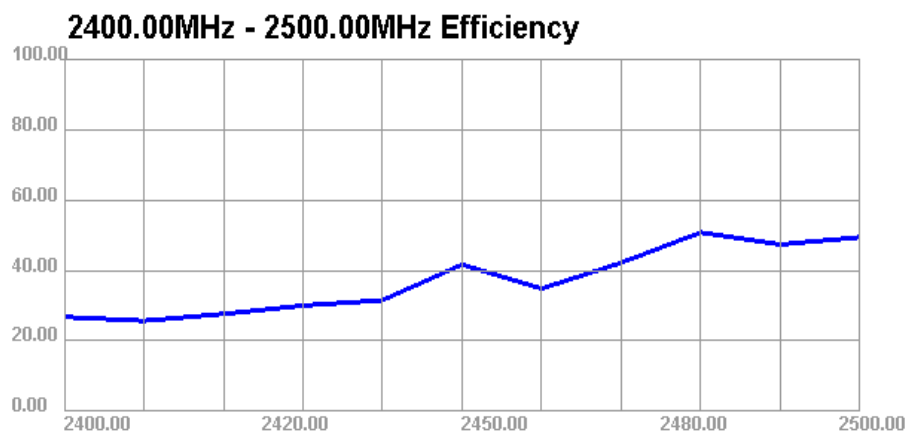
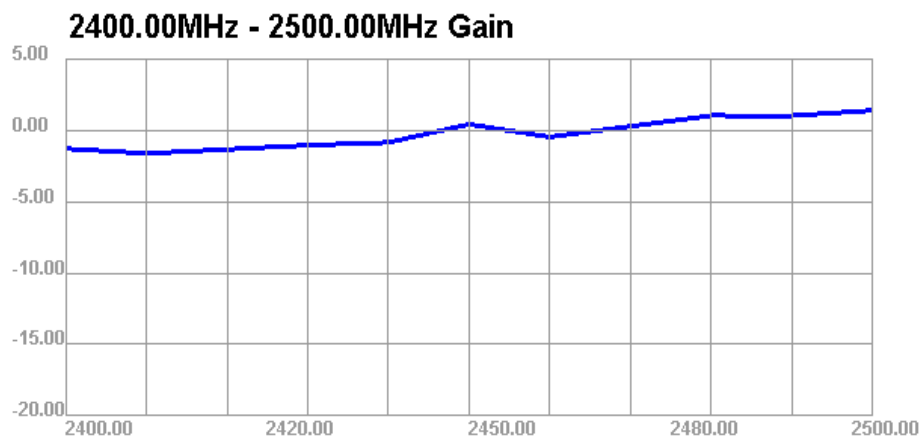


VSWR

3.1.2 Passive Result

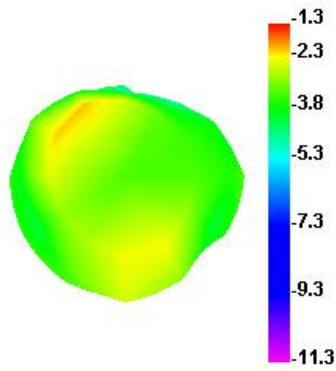
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)
2400	26.8	-5.72	-1.28	-3.43	-1.28	-18.77
2410	25.72	-5.9	-1.62	-3.77	-1.62	-18.66
2420	27.67	-5.58	-1.34	-3.49	-1.34	-18.14
2430	30.04	-5.22	-1.04	-3.19	-1.04	-16.76
2440	31.56	-5.01	-0.85	-3	-0.85	-16.31
2450	41.67	-3.8	0.42	-1.73	0.42	-14.41
2460	34.86	-4.58	-0.47	-2.62	-0.47	-15.33
2470	42.19	-3.75	0.28	-1.87	0.28	-15.81
2480	50.79	-2.94	1.03	-1.12	1.03	-15.86
2490	47.4	-3.24	1.02	-1.13	1.02	-16.54
2500	49.43	-3.06	1.39	-0.76	1.39	-15.76

3.1.2.1 Gain and Efficiency



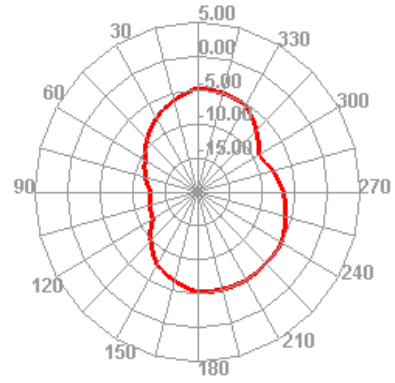
3.1.2.2 Pattern Plots of Passive

2400.000MHz



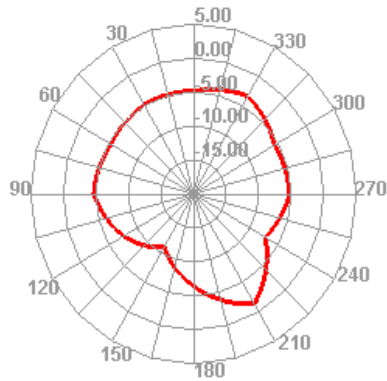
2400MHz

2400.000MHz H



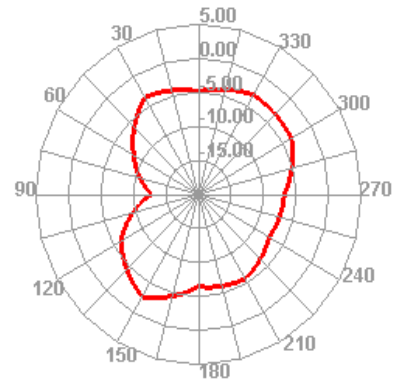
2400MHz-H

2400.000MHz E1



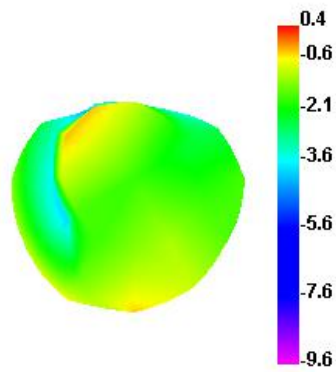
2400MHz-E1

2400.000MHz E2



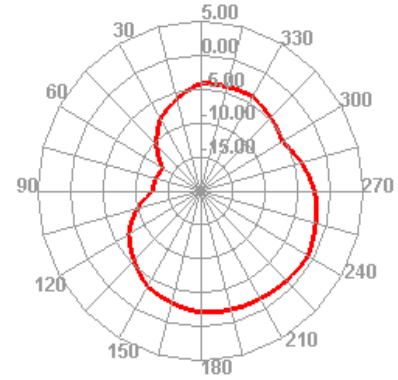
2400MHz-E2

2450.000MHz



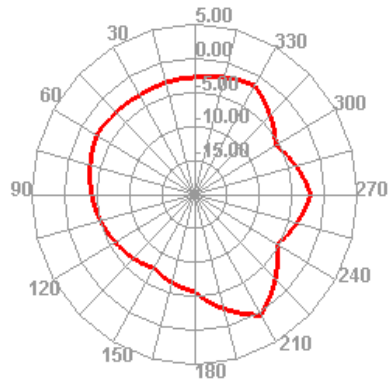
2450MHz

2450.000MHz H



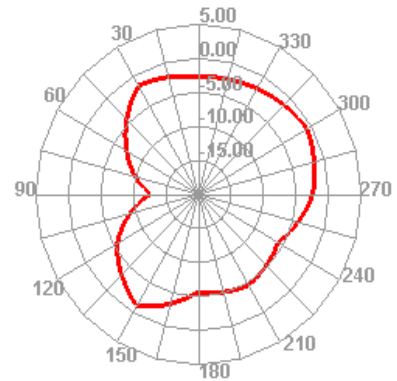
2450MHz-H

2450.000MHz E1



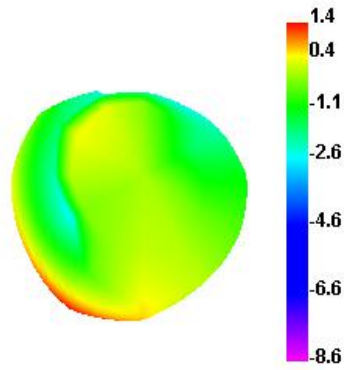
2450MHz-E1

2450.000MHz E2



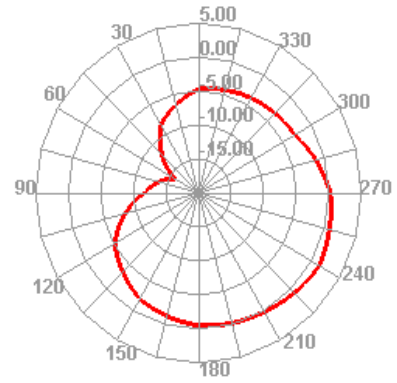
2450MHz-E2

2500.000MHz



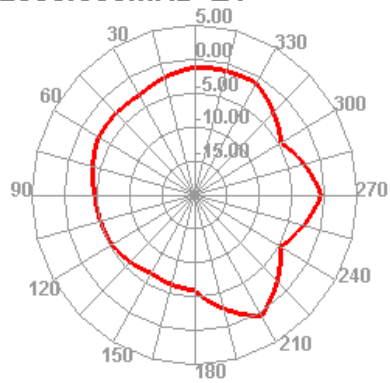
2500MHz

2500.000MHz H



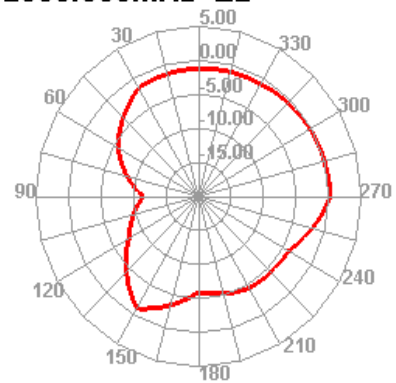
2500MHz-H

2500.000MHz E1



2500MHz-E1

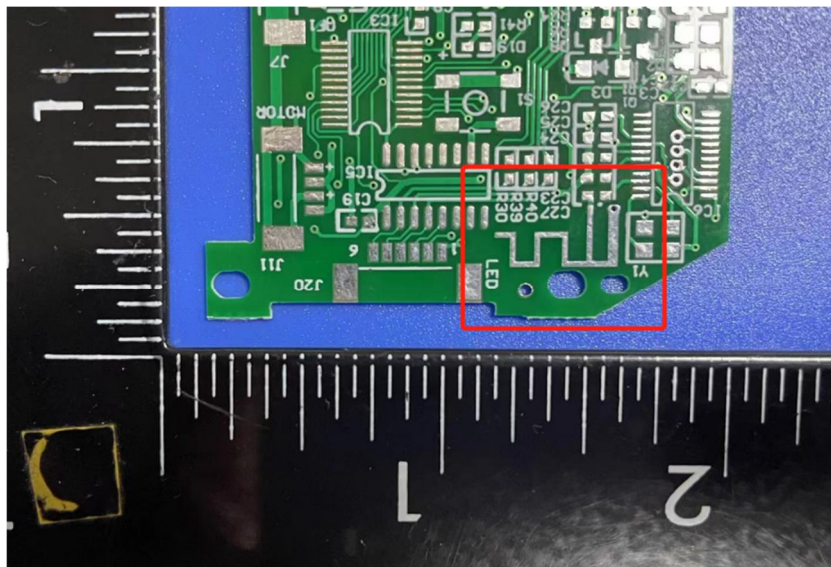
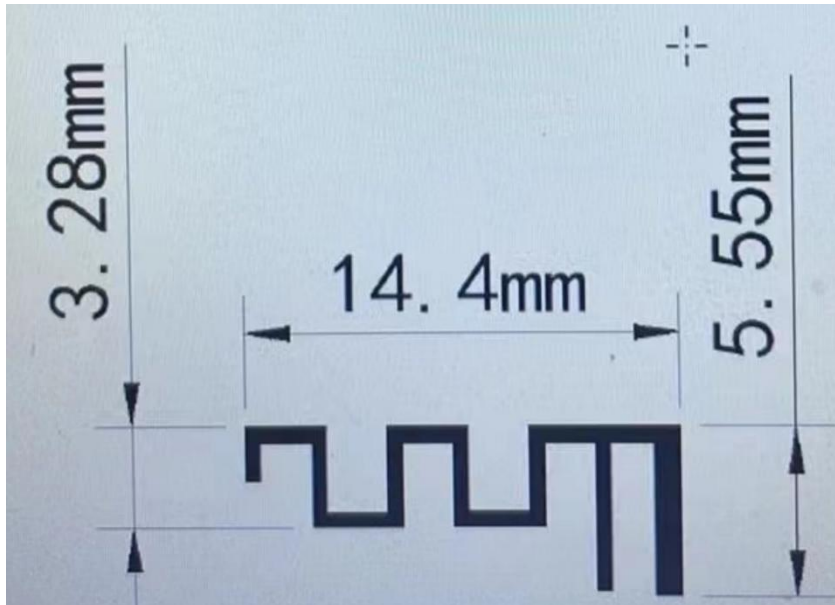
2500.000MHz E2



2500MHz-E2

SECTION 4 Other Information

4.1 Sample Photo



4.2 Equipment List

NO	Name	Model	S/N	Calibration Due Date
1	Satimo	SG24	/	22 th Jul,2023
2	ENA Series Network Analyzer	E5071C	MY46213516	22 th Jul,2023

*****The End*****