OTA TEST REPORT(Passive)

Applicant Shenzhen General Test System Co., Ltd

Product RayZone1800

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Approved by: Wu Zhou

1. Test Laboratory

1.1 Notes of the Test report

This report shall not be reproduced in full or partial. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of applicable standards stated above.

1.2 Test facility

GTS1800 Microwave Anechoic Chamber: testing frequency ranges from 600MHz to 6GHz.

1.3 Testing Location

1.4 Laboratory Environment

Temperature	Min.= 19°C, Max.=25°C	
Relative humidity	Min.=40%,Max.=72%	
Shield effect	0.6-7GHz	>100dB
Ground resistance	<0.5Ω	

2. General Description of Equipment under Test

2.1 Applicant and Manufacturer information

Applicant Name	Shenzhen General Test System Co., Ltd	
Applicant address	Building C-A7 Suite 805,2190 Liuxian Avenue, Nanshan District, Shenzhen, P.R. China	
Manufacturer Name	Shenzhen General Test System Co., Ltd	
Manufacturer address	Building C-A7 Suite 805,2190 Liuxian Avenue, Nanshan District, Shenzhen, P.R. China	

2.2 General information

EUT Description		
Product Name	RayZone1800	
Model	GTS-ANT D-H	
HW Version	RayZone1800 V1.0	
SW Version	MaxSign 100	
Antenna Type	FPC Antenna	
Antenna Manufacturer	Shenzhen 3Good Wireless Communication Co., Ltd	
Test Frequency	700MHz-2600MHz	

2.3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test Method: ANSI/IEEE Std 149-2008

3. Test Conditions

3.1 Test Configuration

The method is used to measure the antenna 3D GAIN of EUT in OTA qualified anechoic chamber. Equipment Under Test (EUT) geometry centre vertical projection at the centre of platform, the distance from EUT to measurement antenna is 1m.

3.2 Test Measurement

Spherical coordinate system

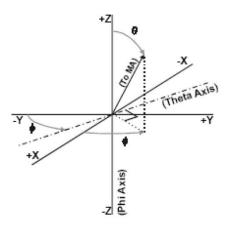
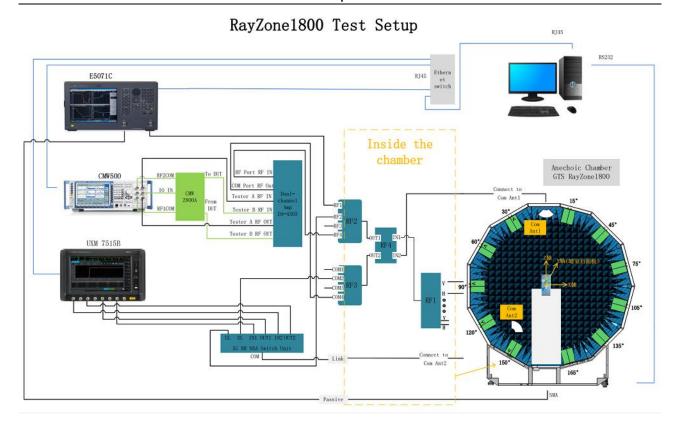


Figure 1 Test coordinate system

Note: Theta is from 0-180degree.Phi is from EUT and record the Date, the step of rotation is 15 degree.

Test Setup



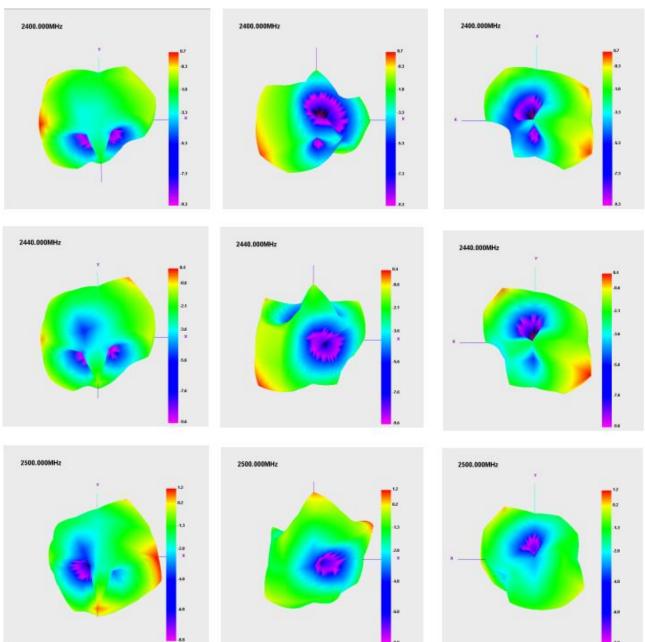
4. Test Results

4.1 Antenna Effi.& Max. Peak Gain

Test	Test data(天线无源测试数据)			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	
2400	55.94	-2.52	0.69	
2410	54.06	-2.67	0.52	
2420	55, 33	-2.57	0.64	
2430	54.14	-2.66	0.56	
2440	53.39	- 2. 73	0.41	
2450	53.13	- 2. 75	0.25	
2460	50.28	-2.99	- 0.03	
2470	49.2	-3.08	0.07	
2480	50.42	-2.97	0.52	
2490	53, 39	-2.72	0.95	
2500	55, 38	-2.57	1.21	

4.2 Antenna radiation pattern

WIFI2.4G



5. Equipment List

Type of Equipment	Manufacture	Model Number
Network Analyzer	Agilent Technologies	E5071B
Switch control System	GTS	RayZone1800
Software	GTS	MaxSign 100 Patten
		Measurement software

ANNEX B: The EUT Appearance and Test Configuration

B.1 EUT Appearance



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B.2 Test Configuration







5.尺寸

