

Testing Report

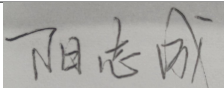
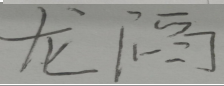
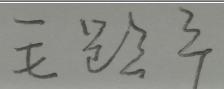
Customer Name: Hongji Wireless Communication (Shenzhen) Co., LTD

Product Name: BT Antenna

Sample Model: Ox horn

Reference Standard: *GB/T9410-2008; ANSI/IEEE Std 149-1979*

Issue Date: 2023.11.14

Engineer:			Date: 2023.11.14
Auditor:			Date: 2023.11.14
Approver:			Date: 2023.11.14

1. General Information

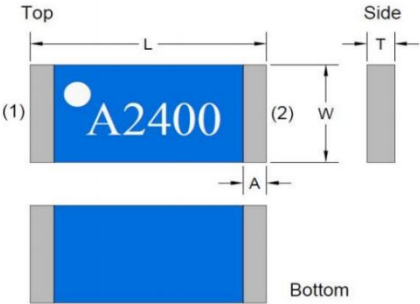
1.1 General Information of testing institutions

Name	Hongji Wireless Communication (Shenzhen) Co., LTD
Address	12 / F, West Block B, Building 8, Huaqiang Science and Technology Ecological Park, Guangming District, Shenzhen
Tel	17841062058
E-mail	yuhongaaronyang@honant.cn
Equipment	Agilent 5071C

1.2 Testing principle



Antenna Photo & Length(mm)



NO.	Terminal Name
[1]	Feeding point
[2]	GND

Dimensions in mm				
TYPE	L	W	A	T
HCA3216B2450C12S	3.2±0.2	1.6±0.2	0.4±0.2	0.5±0.2

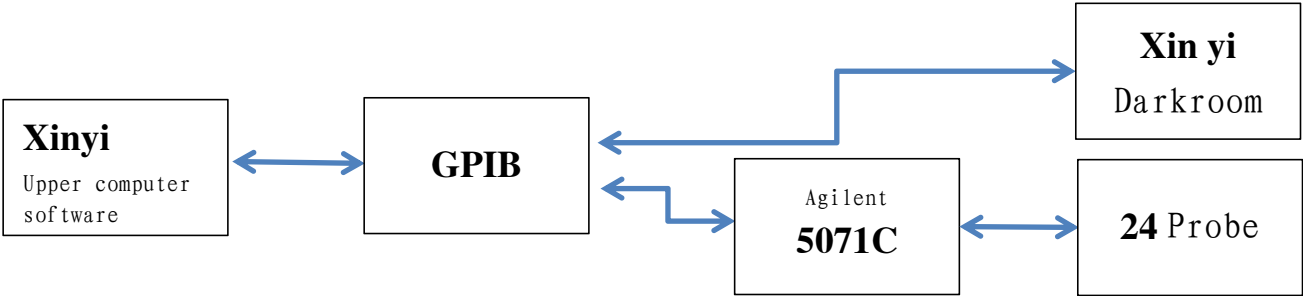
1.3 Test equipment

Equipment	Model No.	Serial No.	Manufacturer	Calibration date	Next calibration date
24 probe microwave chamber	4*4*4	NA	Xinyi	2023.09.30	2023.12.31
Network Analyzer	5071C	NA	Agilent	2023.09.30	2023.12.31

1.4 Test environment

Temperature	24 C± 1.5 C
Humidity	45%RH
Pressure	101kPa

1.5 Brief summary of Procedure



1. Xinyi turn on the Upper Computer Software, Name: VeryView99.exe, Version No.: V1.10;
2. VeryView99 via GPIB (General Purpose Interface Bus) to control the shielding room (darkroom)'s Xinyi;
3. Meanwhiel, GPIB control the Agilent 5071C to read the Antenna data by 24 Probe;
4. Agilent 5071C will analyse the data and generate the result;
5. Agilent 5071C will feedback to VeryView99 software to generate the test report.

2. Sample Information

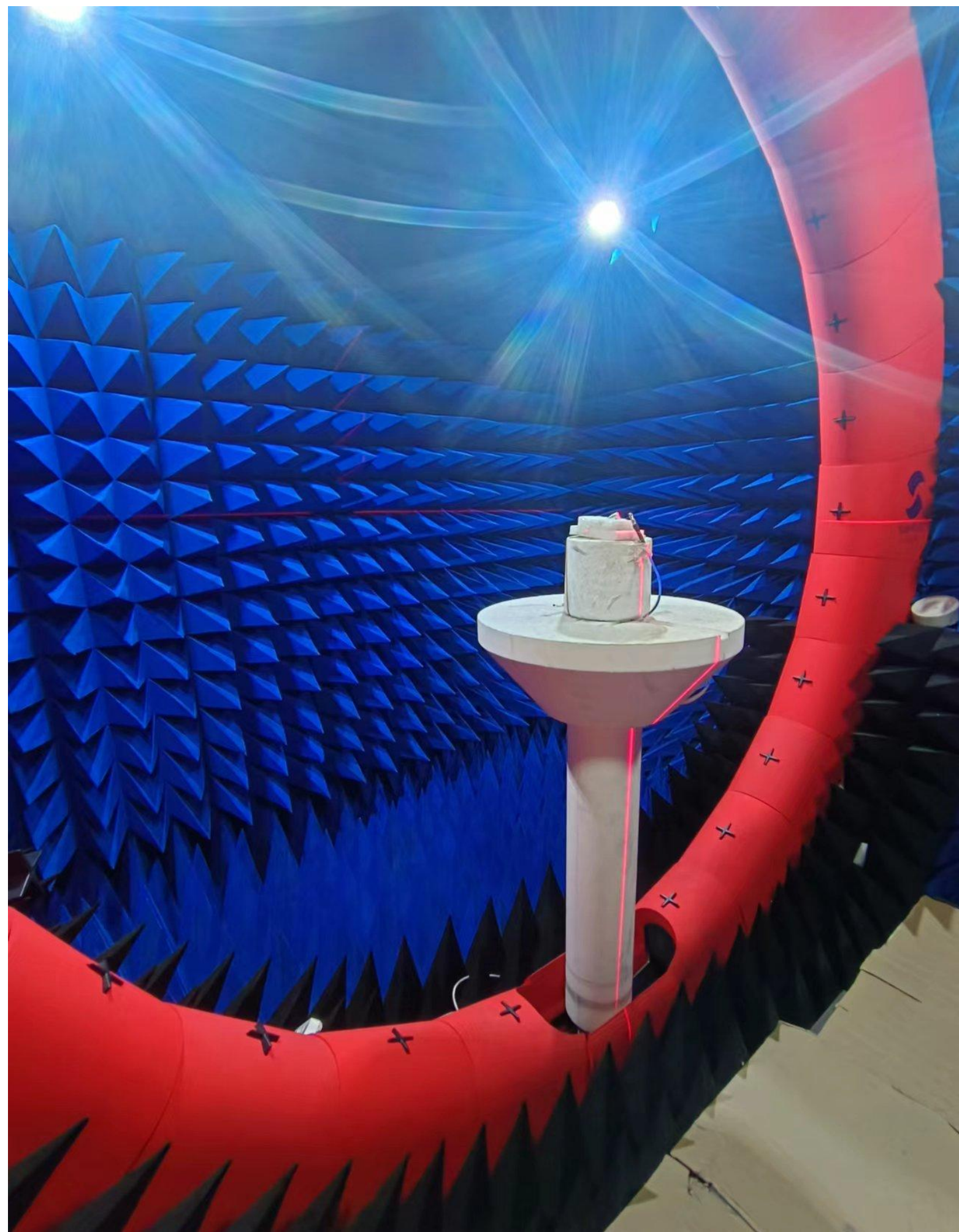
2.1 Client information

Name	Hongji Wireless Communication (Shenzhen) Co., LTD
Address	12 / F, West Block B, Building 8, Huaqiang Science and Technology Ecological Park, Guangming District, Shenzhen
Contacts	Yang zhi cheng
Tel	17841062058
E-mail	aaron@yho-co.com

2.2 Description of EUT(S)

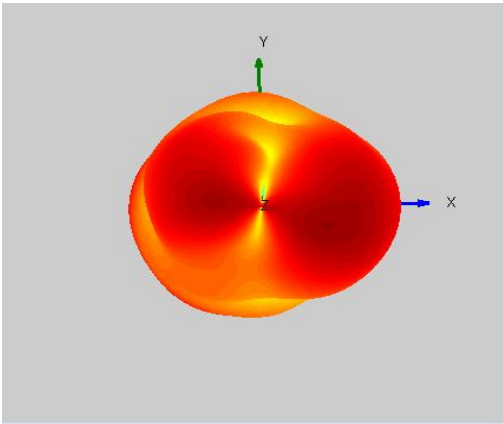
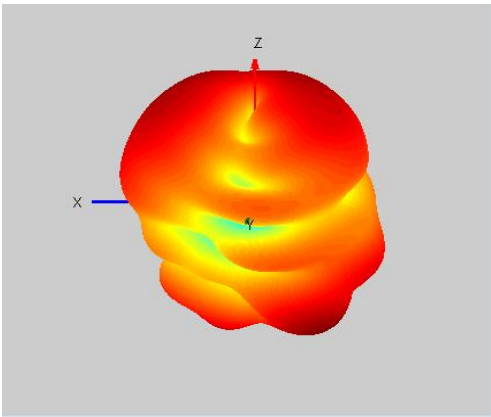
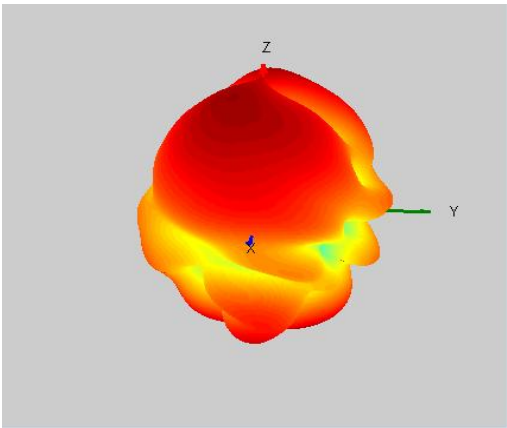
Product Name	BT Antenna
Sample Model	O x h o r n
Antenna Size	3.2 x 1.6 x 0.5 (mm)
Antenna Type	Ceramic patch antenna
Serial No.	/
Test Item	Antenna Gain, Radiation pattern
Frequency Range	2400-2500MHz
Received Date	2023.11.14
Test Date	2023.11. 14
Remark	The length of the RF cable is 50mm

The test photos



Test data

L			
FrequencyMHz	Gain(dBi)	Efficiency(dB)	Efficiency (%)
2400	-2.24	-8.19	15.16
2410	-1.54	-7.56	17.53
2420	-0.98	-6.98	20.07
2430	-0.61	-6.53	22.21
2440	-0.26	-6.13	24.41
2450	-0.11	-5.72	26.78
2460	0.11	-5.36	29.11
2470	0.22	-5.07	31.10
2480	0.28	-4.88	32.54
2490	0.27	-4.73	33.68
2500	0.13	-4.73	33.65
AVG	-0.57	-6.27	24.32



R			
FrequencyMHz	Gain(dBi)	Efficiency(dB)	Efficiency (%)
2400	0.36	-5.71	25.34
2410	0.75	-5.55	25.14
2420	0.77	-5.55	26.12
2430	0.94	-5.38	27.48
2440	0.82	-5.26	27.60
2450	1.15	-4.94	29.25
2460	1.06	-5.05	30.72
2470	1.23	-5.03	30.82
2480	1.02	-5.11	29.47
2490	0.83	-5.27	28.73
2500	0.67	-5.72	28.41
AVG	0.90	-5.29	27.99

