

TEST REPORT

Product Name : 2.4 GHz Antenna
Model/Type reference : NA
Report Number : XH20260817001
Date of Issue : August 17, 2026
Test Standards : GB/T 9410-2008
: ANSI/IEEE Std149-2021

Compiled by:

Eason

Reviewed by:

Acron

Approved by:

Jason

Date:

August 17, 2026



Prepared by:
Shenzhen XinHua Technology co.,Ltd
E-mail: jason.chen@htc-cert.com

Version

Version No.	Date	Description
00	August 17, 2026	Original

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1. General Information

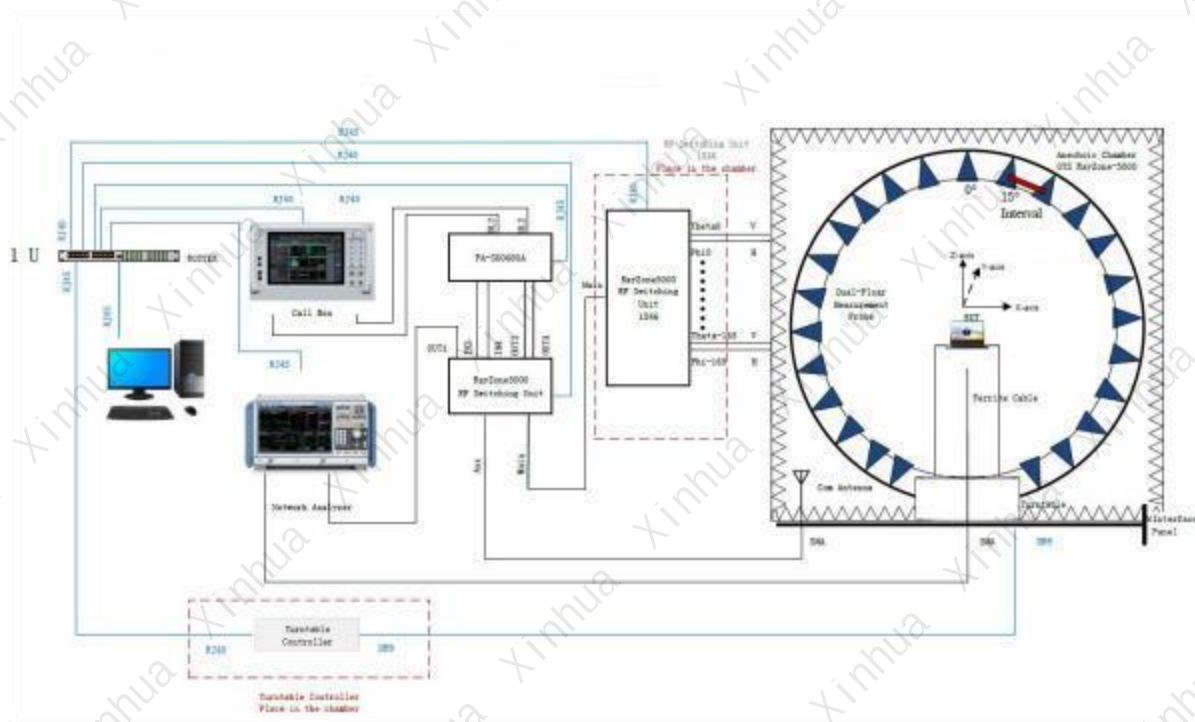
1.1 General information of testing institutions

Name	Shenzhen XinHua Technology co.,Ltd
Address	Room 617, No. 15, Shajiang East Road, Songgang Community, Songgang Street, Bao'an District, Shenzhen

1.2 Applicant and Manufacturer

Applicant/Client Name	GATAWA
Applicant Address	138 Rue Grande, 77300 Fontainebleau, France

1.3 Testing principle



1.4 Test equipment

Equipment	Model No.	Serial No.	Manufacturer	Calibration date	Next calibration date
OTA Test System	RayZone-5000	A0011	GTS	2026.01.19	2027.01.18
Network Analyzer	E5071C	C0017	KEYSIGHT	2026.01.19	2027.01.18

1.5 Test environment

Temperature	24.8°C
Humidity	83%RH
Pressure	100.06kPa

1.6 Statement

- (1) The test results in the report are only applicable to the tested samples and the tested samples work under the environment described in the report.
- (2) Only Shenzhen XinHua Technology co.,Ltd have the right to modify the report, and the modification information shall be annotated in the revision form.
- (3) Any objection to this report shall be raised within 30 days after formal confirmation of the report.
- (4) This report is invalid if there is any evidence that the sample information provided is falsified.
- (5) The report is invalid without the signature of the auditor and approver.

2.Sample Information

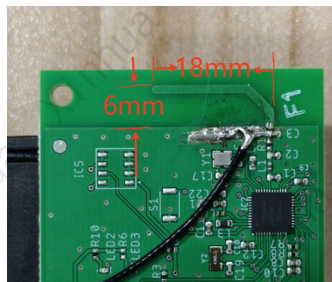
2.1 Description of EUT(S)

Test Item	VSWR;Antenna gain; Efficiency; Radiation pattern
Frequency Range	2400-2500MHz
Received Date	August 12, 2026
Test Date	August 15, 2026

2.2 EUT appearance

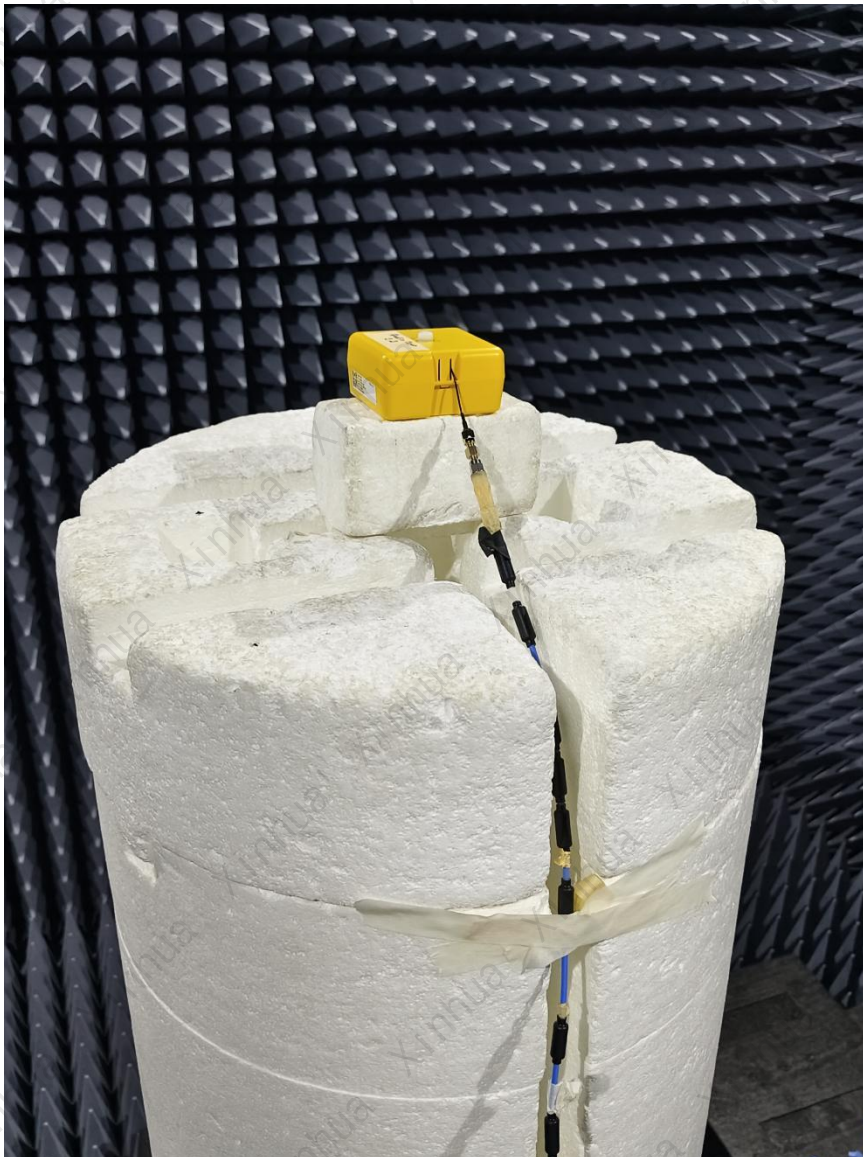


View Of Product-01



Antenna Dimensions

2.3 EUT setup photo of free space OTA testing



3. Test Results

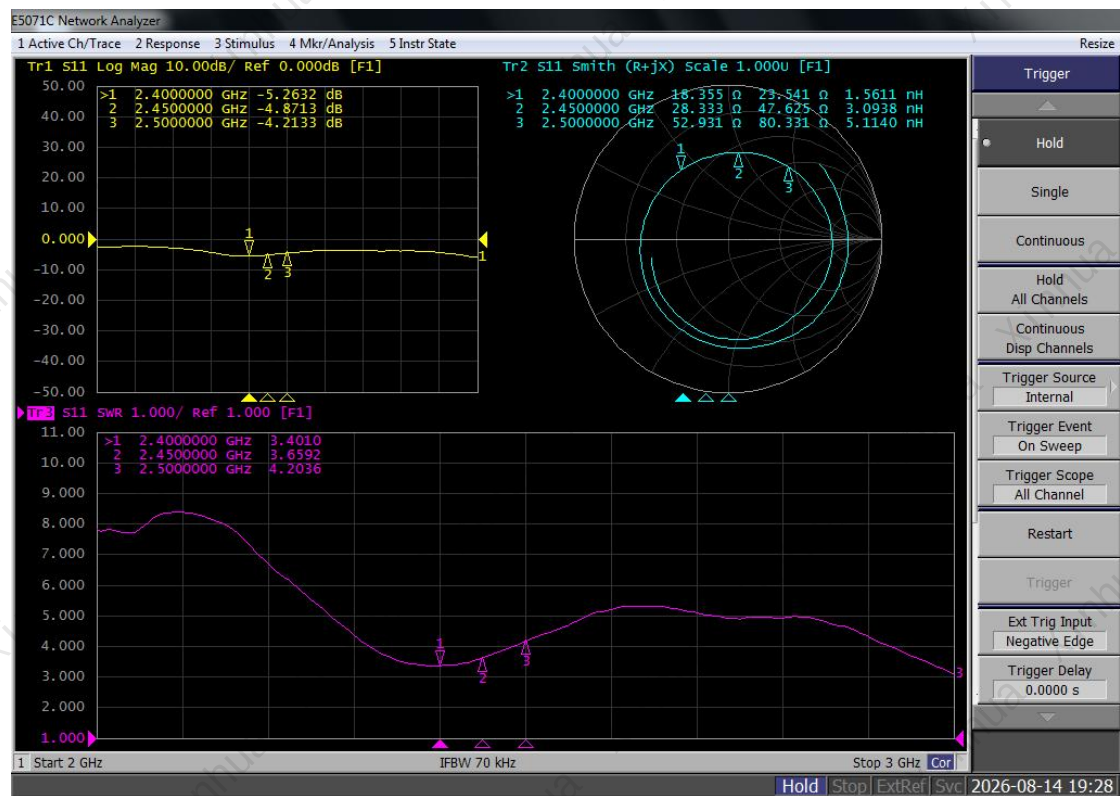
3.1 Test uncertainty

The uncertainty was calculated on the basis of the GUM published by ISO, using the inclusion factor of K=2 and the 95% confidence level to express the extendeduncertainty.

Item	Uncertainty
VSWR	±0.3
Antenna gain	±0.72dB
Radiation efficiency	±0.72dB

3.2 Test data

3.2.1 VSWR parameters



3.2.2 VSWR data

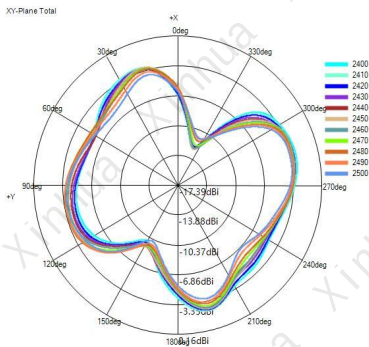
Frequency/MHz	2400	2450	2500
VSWR	3.4010	3.6592	4.2036

3.2.3 Typical free space efficiency and gain

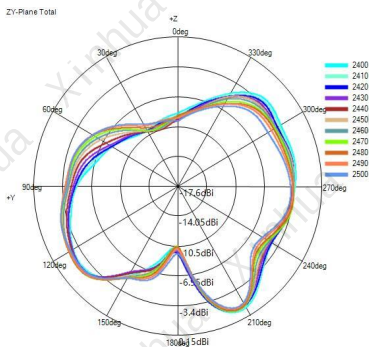
Frequency ID	Freq (MHz)	Gain (dBi)	Efficiency (%)
1	2400	0.04	33.20
2	2410	-0.03	32.66
3	2420	-0.02	32.07
4	2430	-0.06	31.27
5	2440	-0.05	31.09
6	2450	0.12	32.20
7	2460	0.08	31.91
8	2470	0.15	31.68
9	2480	0.15	31.06
10	2490	-0.06	29.90
11	2500	-0.29	28.59

3.2.4 Radiation pattern

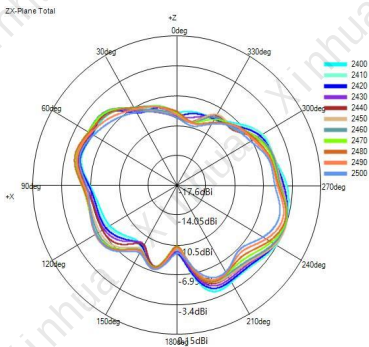
(1) XY-Plane Total:



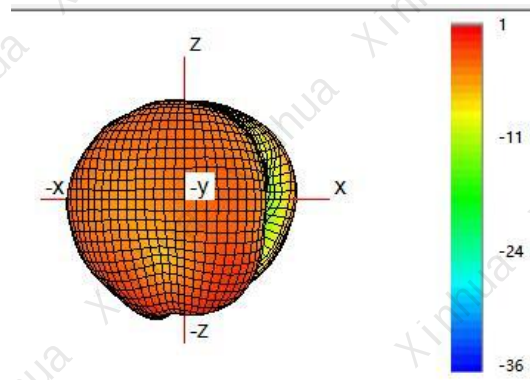
(2) ZY-Plane Total:



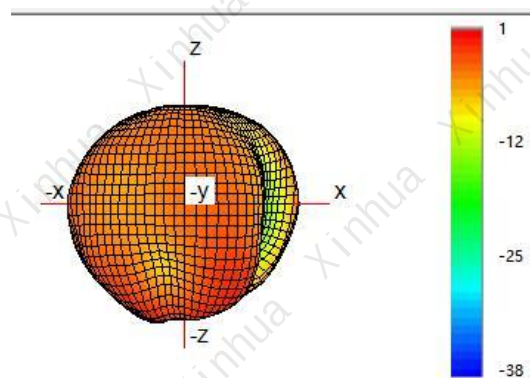
(3) ZX-Plane Total:



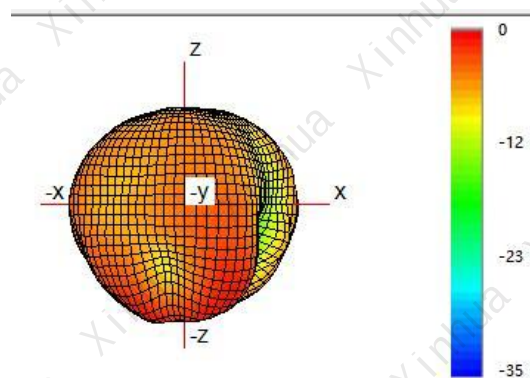
(4) Typical Free Space 3D Radiation Pattern at 2400MHz(unit:dBi)



(5) Typical Free Space 3D Radiation Pattern at 2450MHz(unit:dBi)



(6) Typical Free Space 3D Radiation Pattern at 2500MHz(unit:dBi)



End