

Antenna Test Report

Report No.: AGC00259241119PA01

PRODUCT DESIGNATION: Bluetooth Speaker

BRAND NAME : N/A

MODEL NAME : TTD-2809

APPLICANT: Shenzhen Qijiang Technology Limited

DATE OF ISSUE : Jan. 16, 2025

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan. 16, 2025	Valid	Initial release

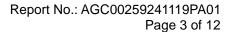
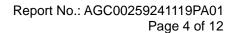




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1. PRODUCT INFORMATON

General information				
Applicant	Shenzhen Qijiang Technology Limited			
Address	Room 205, Floor 2, Building E, Bantian International Center, NO. 5, Huancheng South Road, Bantian Street, Longgang District, Shenzhen, China			
Manufacturer	Shenzhen Qijiang Technology Limited			
Address	Room 205, Floor 2, Building E, Bantian International Center, NO. 5, Huancheng South Road, Bantian Street, Longgang District, Shenzhen, China			
Factory	Shenzhen Qijiang Technology Limited			
Address	Room 205, Floor 2, Building E, Bantian International Center, NO. 5, Huancheng South Road, Bantian Street, Longgang District, Shenzhen, China			
Product Designation	Bluetooth Speaker			
Brand Name	N/A			
Test Model	TTD-2809			
Series Model	N/A			
Difference Description	N/A			
Date of receipt of test item	Dec. 25, 2024			
Date of Test	Dec. 25, 2024 ~ Jan. 16, 2025			
Report Template	AGCRT-ER-PA/V1.0			
Technical information				
Frequency Range	2400-2500MHz			
Test Frequencies	2400MHz, 2410MHz, 2420MHz, 2430MHz, 2440MHz, 2450MHz, 2460MHz, 2470MHz, 2480MHz, 2490MHz, 2500MHz			
Antenna Type	PCB antenna			
Dimensions	5mm*20mm			
Impedance	50Ω			
Maximum test values	Gain: -3.16dBi; Efficiency: 10.784%; VSWR: 1.144:1			

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd.

The test results of this report relate only to the tested sample identified in this report.

Prepared By

Jack Gui
(Project Engineer)

Calvin Liu
(Reviewer)

Approved By

Angela Li
(Authorized Officer)

Jan. 16, 2025



2. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3. TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Cal. Date	Cal. Due
ANTENNA MEASUREMENT SYSTEM	ETS-Lindgren	AMS-8600	Nov. 19, 2024	Nov. 18, 2025
Network Analyzer	R&S	ZVL-6	Oct. 02, 2024	Oct. 01, 2025
Test software	ETS-Lindgren	EMQuest	Ver V1.12	N/A

4. MEASUREMENT UNCERTAINTY

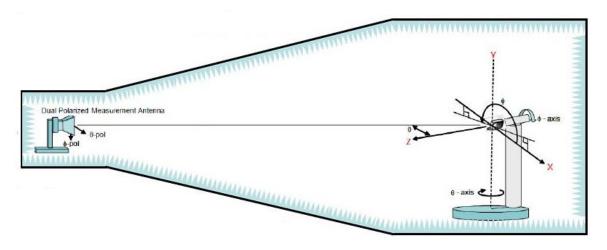
The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

- Uncertainty of VSWR, Uc = ±1.5dB
- Uncertainty of Gain, Uc = ±0.8dB

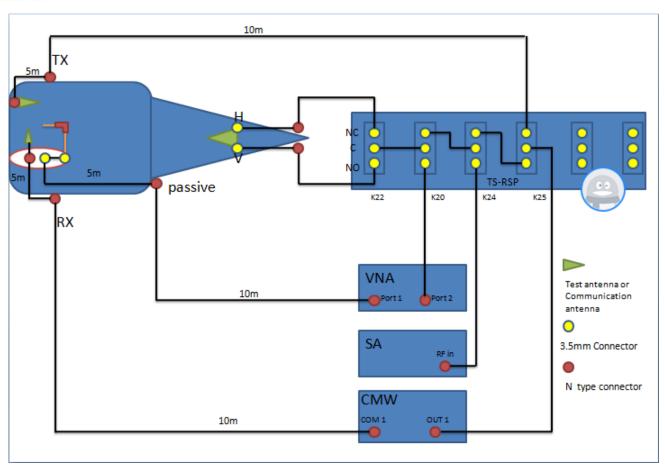
5. TEST SUMMARY LIST

NO.	Test item	Remark
1	VSWR	
2	Gain and efficiency	
3	Radiation pattern	

6. TEST SETUP









7. TEST RESULTS

7.1. **VSWR**

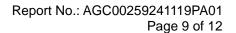
Frequency(MHz)	VSWR
2402	1.097:1
2450	1.085:1
2464	1.144:1
2480	1.111:1





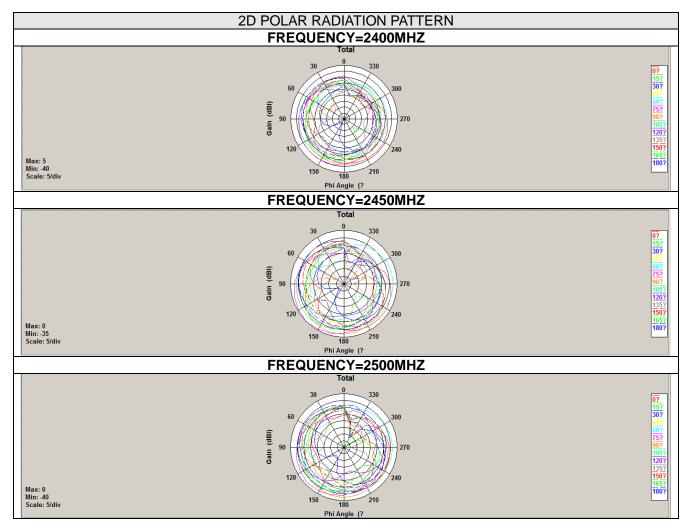
7.2. GAIN AND EFFICIENCY

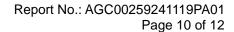
Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
2400	-10.015	9.965	-3.87
2410	-10.061	9.860	-4.02
2420	-10.069	9.842	-4.15
2430	-9.873	10.296	-4.04
2440	-9.690	10.741	-3.92
2450	-9.672	10.784	-3.87
2460	-9.769	10.547	-3.82
2470	-10.047	9.893	-3.44
2480	-10.056	9.872	-3.16
2490	-10.183	9.589	-3.17
2500	-10.272	9.394	-3.25



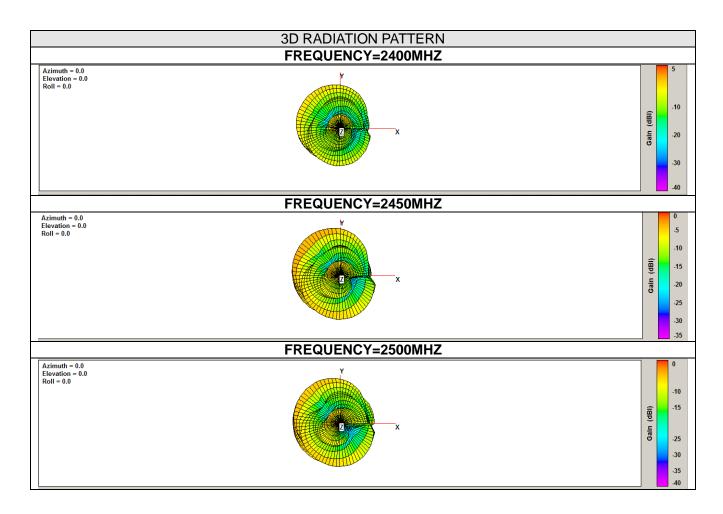


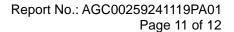
7.3. RADIATION PATTERN





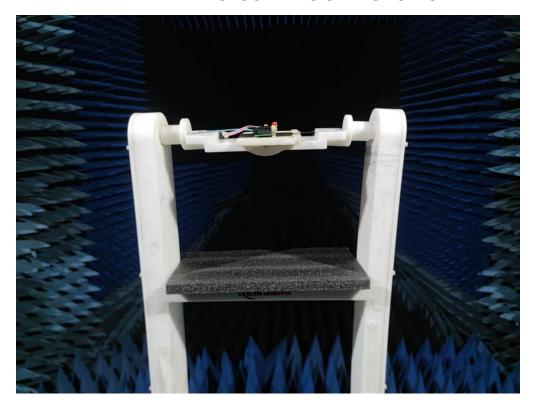






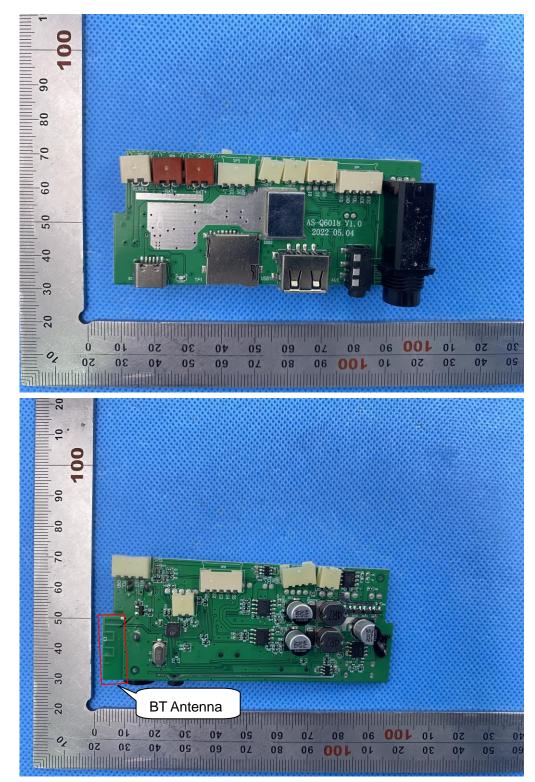


APPENDIX A: PHOTOGRAPHS OF TEST SETUP





APPENDIX B: PHOTOGRAPHS OF EUT



----END OF REPORT----

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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



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