

TEST REPORT

Report Number	90294-22-72-25-PP002
Date of issue	2025-07-17
Prepared by (+signature).....	Pale Cai
Reviewer (+signature).....	Duke Chen
Approved by (+signature)	Jason Gao
Testing Laboratory name	SLG-CPC Testlaboratory Co., Ltd.
Address	No. 11, Wu Song Road, Dongcheng District Dongguan, Guangdong Province, 523117, People's Republic of China
Applicant's name	GUANGDONG ROULE ELECTRONICS CO.,LTD.
Address	No. 12, Pingdong 3rd Road, Nanping Industry Community, Zhuhai City, GuangDong, China
Manufacturer's name	GUANGDONG ROULE ELECTRONICS CO.,LTD.
Address	No. 12, Pingdong 3rd Road, Nanping Industry Community, Zhuhai City, GuangDong, China
Factory's name	GUANGDONG ROULE ELECTRONICS CO.,LTD.
Address	No. 12, Pingdong 3rd Road, Nanping Industry Community, Zhuhai City, GuangDong, China
Standard(s)	FCC 1.1310: §1.1307(b)
Test item description	WIFI ALARM KIT
Trade Mark	VOXON, 
Model/Type reference	RL-AS200; 68062
FCC ID	YI6-RL-AS200
Date of receipt of test item	2022.04.07
Date (s) of performance of test:	2022.04.07-05.06
Summary of Test Results	Pass
The Summary of Test Results based on a technical opinion belongs to the standard(s).	
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Modified History

Report No.	Revision Date	Summary
90294-22-72-25-PP002	2025-07-17	Original Report

1. EUT Specification

Product:	WIFI ALARM KIT
Model Number:	RL-AS200; 68062
Test Model No:	RL-AS200
Power supply:	<input checked="" type="checkbox"/> DC 3V from Battery
Modulation:	OOK
Frequency Range:	433.92 MHz
Max Transmit Power:	73.59 dBuV/m@3m(0.0069mW)
Antenna Gain:	2 dBi
Antenna:	PCB Antenna
Temperature Range:	-10°C ~ +50°C

2. Test Requirement

RF EXPOSURE EVALUATION

Test Requirement:

According to § 15.247(e)(i) and § 1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB447498 D01 General RF Exposure Guidance V06

The 1-g SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison
- When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by §2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

Max Power (dBm)	Max Power (mW)	Frequency (MHz)	Min. Distance (mm)	Calc. Result	limit
-21.61	0.0069	433.92	5	0.00091	3.0

$$\text{EIRP(dBm)} = \text{E(dBuV/m)} - 95.2 = 73.59 - 95.2 = -21.61 \text{ dBm}$$

According to KDB 447498 D01 General RF Exposure Guidance v06, no stand-alone required for 433M antenna, and no simultaneous SAR measurement is required.

*** End of Report ***

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