

TEST REPORT

Report Number. :	90297-22-72-25-PP002	
Date of issue :	2025-07-17	
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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-VS200; 68059	
FCC ID :	YI6-RL-VS200	
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
90297-22-72-25-PP001	2025-07-17	Original Report

1. EUT Specification

Product:	WIFI ALARM KIT
Model Number:	RL-VS200; 68059
Test Model No:	RL-VS200
Power supply:	☒ : DC 3V form Battery
Modulation:	OOK
Frequency Range:	433.92 MHz
Max Transmit Power:	72.69 dBuV/m@3m(0.0056mW)
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
-22.51	0.0056	433.92	5	0.00074	3.0

$EIRP(dBm) = E(dBuV/m) - 95.2 = 72.69 - 95.2 = -22.51 dBm$

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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