

# RF EXPOSURE REPORT

For

## SHENZHEN MINJUN ELECTRONIC Technology CO., LTD

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**FCC ID: 2AI2E-SEEMEE**

<b>Report Type:</b> Original Report	<b>Product Name:</b> SEEMEE RADER TAILLIGHT
<b>Report Number:</b>	<u>RKSA240624001-00B</u>
<b>Report Date:</b>	<u>2024-09-18</u>
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## REPORT REVISION HISTORY

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Number of Revisions	Report No.	Version	Issue Date	Description
0	RKSA240624001-00B	R1V1	2024-09-18	Initial Release

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

Applicant:	SHENZHEN MINJUN ELECTRONIC Technology CO., LTD
Tested Model:	SEEMEE R300
Series Model:	SEEMEE RC30, SEEMEE 100AD
Model Difference:	Model Name
Product Name:	SEEMEE RADER TAILLIGHT
Power Supply:	DC 3.6V powered by battery or DC 5V charging from adapter
RF Function:	24G SRD
Operating Band/Frequency:	24.09 GHz - 24.21 GHz
Maximum Field Strength of Fundamental:	102.40 dB $\mu$ V/m @3m
Modulation Type:	FMCW
Antenna Type:	Patch Array antenna
★Maximum Antenna Gain:	10.8 dBi

*Note: The maximum antenna gain is provided by the applicant.*

*All measurement and test data in this report was gathered from production sample serial number: RKSA240624001-1. (Assigned by the BACL. The EUT supplied by the applicant was received on 2024-06-24)*

### Objective

This type approval report is prepared for *SHENZHEN MINJUN ELECTRONIC Technology CO., LTD* in accordance with Part 2-Subpart J, and Part 15-Subparts A and C of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209, 15.215 and 15.249 rules.

## §1.1307 (b) (3) & §2.1091 – RF EXPOSURE

### Applicable Standard

According to subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

According to KDB 447498 D04 Interim General RF Exposure Guidance

MPE-Based Exemption:

General frequency and separation-distance dependent MPE-based effective radiated power(ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$ .
1.34-30	$3,450 R^2/f^2$ .
30-300	$3.83 R^2$ .
300-1,500	$0.0128 R^2f$ .
1,500-100,000	$19.2R^2$ .

R is the minimum separation distance in meters  
 f = frequency in MHz

### Result

Mode	Frequency Range (GHz)	★Tune up EIRP (dBm)	ERP		Evaluation Distance (m)	ERP Limit (W)
			(dBm)	(W)		
SRD	24.09-24.21	7.5	5.35	0.00343	0.2	0.768

For SRD, the power of EUT: E Field@3m is 102.40 dBuV/m = 7.2 dBm

Note:  $E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] + 95.2$  for  $d = 3$  m.

Note: the tune-up power provide by applicant.

**Result: Compliance**

## **EUT PHOTOGRAPHS**

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Please refer to the attachment EXHIBIT A-EUT EXTERNAL PHOTOGRAPHS and EXHIBIT B-EUT INTERNAL PHOTOGRAPHS.

## Declarations

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with “★”.
2. The test data was only valid for the test sample(s). This report must not be duplicated or used in part without prior written consent from the laboratory.
3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor  $k=2$  with the 95.45% confidence interval.

**\*\*\*\*\*END OF REPORT\*\*\*\*\***